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NOSC TD 573

NOSC TD 573

Technical Document 573

CLIMATOLOGY OF MARINE ATMOSPHERIC REFRACTIVE EFFECTS

A compendium of the Integrated Refractive Effects Prediction System (IREPS) historical summaries

LCDR WL Patterson

20 December 1982

Interim document

Prepared for
Naval Oceanographic Office
Code 9200

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NAVAL OCEAN SYSTEMS CENTER
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AN ACTIVITY OF THE NAVAL MATERIAL COMMAND

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Technical Director

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The staff of the Naval Oceanography Command Detachment, Asheville NC, is acknowledged for the tremendous effort of researching, compiling, and analyzing the 10 years of surface meteorological data—over 16 million observations—that went into the generation of the evaporation duct climatology used within the Integrated Refractive Effects Prediction System. The completion of this long and tedious project in record time significantly improved the quality of numerical environmental prediction aids used throughout the Department of Defense.

Released by
JH Richter, Head
Ocean and Atmospheric
Sciences Division

Under authority of
JD Hightower, Head
Environmental Sciences
Department

CONVERSION TO SI METRIC

To convert from	to	Multiply by
millibars	Pa	10^2
feet (ft)	m	$\sim 3.05 \times 10^{-1}$

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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The purpose of this document is to provide a summary of climatological electromagnetic propagation conditions for ocean and coastal areas to fleet tacticians and operational commanders who may not have access to IREPS via the Hewlett-Packard 9845 desktop computer.

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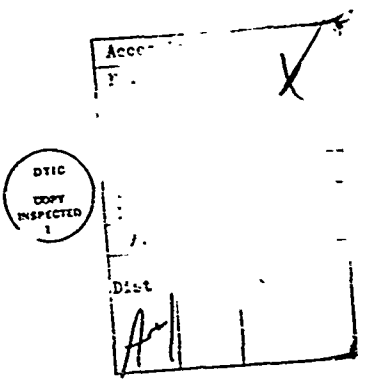
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PURPOSE

The anomalous propagation of electromagnetic energy through the atmosphere has been in evidence for many years in the form of false radar targets (ghosts), radar "holes," and extended detection/communication ranges. An operational commander aware of these anomalous propagation conditions may exploit them for an offensive or defensive military advantage. The Integrated Refractive Effects Prediction System (IREPS) developed at NOSC provides electromagnetic systems performance predictions based upon actual measured atmospheric conditions. In addition, IREPS provides a summary of propagation conditions based upon a worldwide refractive climatology data base stored within the program tapes. The purpose of this document is to provide a summary of climatological electromagnetic propagation conditions for ocean and coastal areas to fleet tacticians and operational commanders who may not have access to IREPS via the Hewlett-Packard 9845 desktop computer.

BACKGROUND

REFRACTION AND DUCTING

Refraction is defined as the bending of an energy wave as it passes obliquely from one medium into another in which the wave velocity is different. Varying moisture content and temperature distribution provide the multimedia necessary for refraction of electromagnetic energy in the atmosphere. The degree of refraction is determined by the refractivity (N), which can be expressed as a function of atmospheric pressure, temperature, and moisture by the relation

$$N = \frac{77.6P}{T} + \frac{3.73 \times 10^5 e}{T^2} \quad , \tag{1}$$

where P is atmospheric pressure, in millibars; T is atmospheric temperature, in kelvins; and e is atmospheric water vapor pressure, in millibars.

For a "well mixed" atmosphere, both temperature and moisture content decrease with altitude such that electromagnetic energy propagating horizontally to the earth's surface will refract downward but with a curvature less than that of the earth's. (This is termed standard refraction.) If the atmospheric moisture and temperature distributions are anomalous, however, propagating energy may refract upward (subrefraction), more downward than normal (superrefraction), or downward with a curvature that exceeds that of the earth's surface (trapping). In trapping, the electromagnetic energy is concentrated in a channel, or "duct," that allows the energy to propagate over abnormally long surface distances. Figure 1 demonstrates these standard and anomalous propagating conditions.

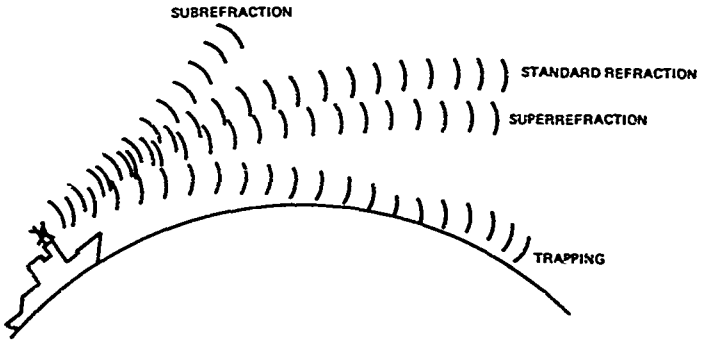


Figure 1. Standard and anomalous electromagnetic energy propagation paths.

The N-unit gradients necessary to produce these conditions within the atmosphere are outlined in table 1.

Refractive Condition	N-unit Gradient	
	N/km	N/kft
Trapping	≤-157	≤-48
Superrefraction	-157 to -79	-48 to -24
Standard refraction	-79 to 0	-24 to 0
Subrefraction	>0	>0

Table 1. N-unit gradients necessary to produce standard and anomalous electromagnetic wave propagation within the atmosphere.

TYPES OF DUCTS

Three types of ducts within the atmosphere are of concern to naval electromagnetic systems: surface-based ducts created from an elevated refractive layer, elevated ducts, and evaporation ducts.

Surface-based ducts generally provide extended surface-to-surface or surface-to-air detection, ESM intercept, and communication ranges for all frequencies above 100 MHz, provided that both transmitter and receiver are near to or within the duct.

Elevated ducts generally affect air-to-air surveillance, communication, and weapon guidance systems, producing extended ranges for systems operating within the duct. But some areas outside the duct are not illuminated. They produce blind spots or "holes" where radar detection or communication is not possible.

Evaporation ducts are very shallow surface ducts. They provide extended surface-to-surface ranges as described above, generally for systems that operate at frequencies above 3 GHz.

FURTHER DISCUSSION

For additional considerations and a detailed discussion of the IREPS program and refraction of electromagnetic energy in the atmosphere, refer to NOSC Technical Document 481 (ref 1).

FORMAT AND DATA DESCRIPTION

The historical data base contained within the document is derived from two sources. The first is a selective abstract (comprised of coastal, island, and fixed ship stations) of a worldwide data base created from a radiosonde data analysis project undertaken by GTE Sylvania, Inc (ref 2). Worldwide radiosonde sounding reports from 1966 to 1969, 1973, and 1974 were verified for accuracy and acceptability. From these radiosonde sounding reports, vertical profiles of N were created and data related to tropospheric ducts or super-refractive layers were extracted. The second source of data (ref 3) is from a project undertaken by the Naval Oceanography Command Detachment, Asheville, NC, at the request of NOSC. Ship surface observations encompassing the years 1970 to 1979 were compiled, evaluated for accuracy, and analyzed. Then the occurrence of evaporation ducts (in 10-m intervals) and an average evaporation duct height were calculated for 216 Marsden squares covering the northern hemisphere ocean and southern hemisphere coastal areas. Data presented in the document appear in the format of the IREPS product entitled "Historical Propagation Conditions Summary," a typical page of which is shown as table 2

The Historical Propagation Conditions Summary (pages III-1 through III-48) consists of five tabular parts per page. Each part is divided into yearly and seasonal categories. Each category is further subdivided into day, night, and a combination of day and night times.

The first part on each page is entitled "Percent Occurrence of Enhanced Surface-to-Surface Radar/ESM/COM Ranges." The statistics display, as a function of system frequency and season of year, the percentage of time that surface propagation will exceed ranges predicted under normal conditions

Part two, entitled "Surface Based Duct Summary," provides, on a seasonal basis, the percent occurrence of a surface-based duct, the duct's average thickness, the average frequency of electromagnetic energy trapped within the duct, and the average refractive index gradient through the duct.

Part three, entitled "Elevated Duct Summary," provides the percent occurrence of an elevated duct, the average duct elevation and thickness, the average frequency of electromagnetic energy trapped within this duct, and the average refractive index gradient through the duct.

1. NOSC TD 481, IREPS Revision 2.0 User's Manual, by HV Hitney et al, September 1981.
2. Electronic Systems Group – Western Division, Radiosonde Data Analysis II: Five Years Data, GTE Sylvania Incorporated, Mountain View CA, 29 July 1977.
3. Evaporation Duct Report 76118, Naval Oceanography Command Detachment, Asheville NC, June 1981.

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 45 00 W
Radiosonde source : 82193 1 22 S 48 28 W
Radiosonde station height: 52 Feet
Surface obs source: MSS 5 00 N 45 00 W

DICATES INSUFFICIENT DATA

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH CON RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
100 MHz	1	0	1	2	0	1	0	0	0	2	0	1	2	0	1
1 GHz	37	7	22	31	5	18	31	6	19	44	8	26	43	8	26
3 GHz	50	14	32	48	15	32	44	13	28	53	14	33	54	15	34
6 GHz	80	63	71	62	68	75	78	63	71	78	57	67	82	62	72
10 GHz	94	91	92	94	94	94	94	93	94	91	87	89	95	91	93
20 GHz	97	96	96	97	98	97	97	97	97	95	94	94	97	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	9	0	5	11	0	6	4	0	2	10	0	5	12	0	6
AVG thickness Kft			.24			.27			.28			.44			.37
AVG trap freq GHz			.90			.52			2.0			.43			.68
AVG lyr grd -N/Kft			179			228			173			120			197

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	22	3	12	16	0	8	8	0	4	23	10	17	42	0	21
AVG top ht Kft			6.8			8.6			8.6			7.4			7.1
AVG thickness Kft			.58			.43			.66			.58			.41
AVG trap freq GHz			.44			.44			.34			.55			.45
AVG lyr grd -N/Kft			59			66			57			58			56
AVG lyr base Kft			7.6			8.3			8.3			7.3			6.8

E AROPATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
0 to 10 Feet	2	1	2	2	1	2	2	1	1	2	1	2	2	1	2
10 to 20 Feet	2	3	2	2	1	1	2	2	2	2	5	4	1	3	2
20 to 30 Feet	3	5	4	3	4	3	4	4	4	4	7	6	2	5	4
30 to 40 Feet	5	10	8	5	9	7	6	10	8	6	11	8	5	10	8
40 to 50 Feet	10	19	14	9	17	13	10	20	15	9	19	14	10	20	15
50 to 60 Feet	12	22	17	12	21	16	12	24	18	11	21	16	11	21	16
60 to 70 Feet	11	16	14	10	18	16	12	17	14	9	14	12	10	16	13
70 to 80 Feet	10	10	10	12	13	13	11	10	11	7	8	8	9	10	9
80 to 90 Feet	7	5	6	10	7	8	7	5	6	5	4	4	6	4	5
90 to 100 Feet	5	2	4	7	4	5	5	2	4	3	2	3	4	2	3
Above 100 Feet	33	7	20	25	5	15	30	6	18	40	8	24	38	8	23
Mean height Feet	95	60	78	86	61	73	91	59	75	103	59	81	101	61	81

GENERAL METEOROLOGY SUMMARY :

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
% occur ELEV dcts			1			2			0			1			0
% occur 2+ EL dcts			5			3			1			8			8
AVG station M			386			387			389			387			387
AVG station -M/Kft			22			21			21			21			24
AVG sfc wind kts	14	13	13	17	16	16	14	14	14	10	10	10	13	12	13

Table 2. Typical page of historical propagation conditions summary.

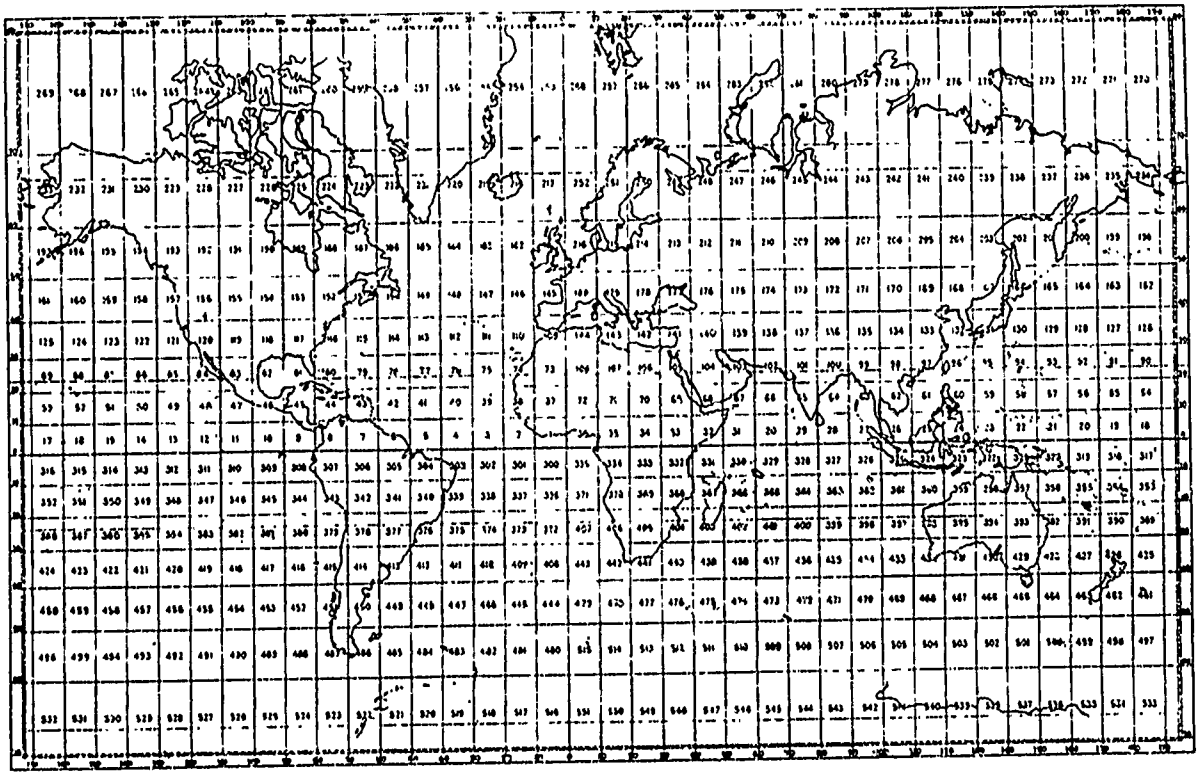
Part four, entitled "Evaporation Duct Histogram in Percent Occurrence," provides percent occurrence and average value of evaporation duct strength as a function of duct height and season of the year.

Part five, entitled "General Meteorology Summary," provides the percentage of simultaneous occurrence of ducts, the average station refractive index, the refractive index gradient through the layer, and the average surface wind speed for the Marsden square.

HOW TO LOCATE DATA FOR AREAS OR STATIONS OF INTEREST

Historical propagation conditions data for stations or areas of interest contained within this document can be obtained if one of the following identifiers is known: (1) the World Meteorological Organization (WMO) block and station number, (2) the country and station name, or (3) the location by latitude and longitude.

Enter the appropriate part of the Data Base Index with the known station or area identification to obtain a data page number. If the area or station is identified by its latitude and longitude, first identify its appropriate Marsden square number from figure 2. Then with the assigned Marsden square number, enter the index to obtain a data page number.



Note: For polar zones, see following page

Figure 2. World map of Marsden square numbers.

POLAR ZONES

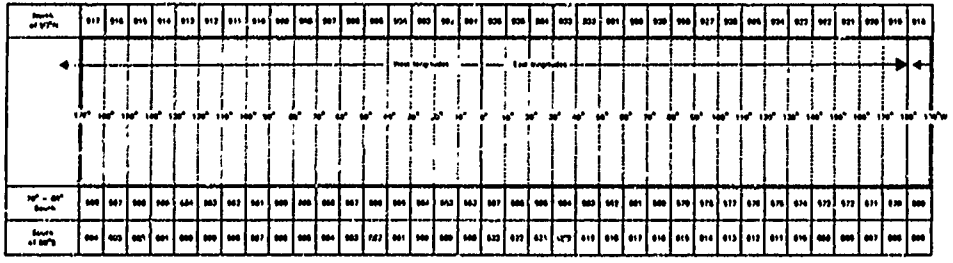


Figure 2. World map of Marsden square numbers (cont).

DATA BASE INDEX

ENVIRONMENTAL DATA BY MARSDEN SQUARE NUMBER

SQUARE NUMBER	BK/STA NUMBER	CITY	COUNTRY	PAGE NUMBER
001	65578	ABIDJAN	IVORY COAST	III-1
002		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-2
003		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-3
004		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-4
005		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-5
006	81405	CAYENNE/ROCHAMBEAU	FRENCH GUIANA	III-6
006	81403	KOURON	FRENCH GUIANA	III-7
008	78806	HOWARD AIR FORCE BASE	CANAL ZONE	III-8
009		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-9
010		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-10
011		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-11
012		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-12
013		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-13
014		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-14
015		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-15
016		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-16
017		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-17
018		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-18
019	91376	MAJURO	MARSHALL IS.	III-19
019	91510	TAPAWA/ GILBERT IS.	NORTH PACIFIC OCEAN	III-20
020	91366	KWAJALEIN	MARSHALL IS.	III-21
021	91348	PONAPE	EASTERN CAROLINE IS.	III-22
021	91334	TRUK	CAROLINE ISLANDS	III-23
022		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-24
023	91408	KOROR	NORTH PACIFIC OCEAN	III-25
023	91413	YAP	CAROLINE ISLANDS	III-26
024	98836	ZAMBOANGA	PHILIPPINES	III-27
025	96471	JESSELTON	INDONESIA, N. BORNEO	III-28
026	48615	KOTA BHARU-PENGKLAN	MALAYSIA	III-29
026	48657	KUANTAN/BESERAH	MALAYSIA	III-30
026	48601	PENANG/BAYAN LEPAS	MALAYSIA	III-31
026	48694	SINGAPORE AIRPORT	SINGAPORE	III-32
026	48568	SONGKHLA	MALAYSIA	III-33
027		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-34
028		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-35
029	43353	COCHIN/WILLINGDON	INDIA	III-36
029	43466	COLOMBO	CEYLON	III-37
029	43371	TRIVANDRUM	INDIA	III-38
030		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-39
031		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-40
036	64910	DOUALA	CAMEROON	III-41
036	65202	LAGOS OSHODI	NIGERIA	III-42
036		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-43
038	61641	DAKAR/YOFF	SENEGAL	III-44
039	88594	SAL (CABO VERDE)	PORTUGAL	III-45
040		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-46
041		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-47
042	78954	SEAWELL AIRPORT	BARBADOS	III-48
043	78967	CHAGUARAMAS	TRINIDAD	III-49
043	78861	COOLIDGE FIELD	ANTIGUA, BRITISH IS.	III-50
043	78986	DR. A. PLESMAN AIRPORT	CURACAO	III-51
043	78866	JULIANA AIRPORT	ST. MARTIN	III-52

ENVIRONMENTAL DATA BY MARSDEN SQUARE NUMBER

SQUARE NUMBER	BK/STA NUMBER	CITY	COUNTRY	PAGE NUMBER
043	78970	PIARCO/PORT OF SPAIN	TRINIDAD + TOBAGO	III-53
043	78897	RAIZET	GUADELUPE ISLAND	III-54
043	78526	SAN JUAN/INT.	PUERTO RICO	III-55
043	78486	SANTO DOMINGO	DOMINICAN REPUBLIC	III-56
044	78367	GUANTANAMO	CUBA	III-57
044	78397	KINGSTON/PALISADOES	JAMAICA	III-58
045	78384	ROBERTS FIELD	GRAND CAYMAN, CAYMAN IS.	III-59
045	80001	SAN ANDRES	COLOMBIA	III-60
045	78501	SWAN ISLAND	SWAN ISLAND	III-61
046	76692	VERACRUZ	MEXICO	III-62
047		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-63
048	76723	ISLAND SOCORRA	MEXICO	III-64
049		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-65
050		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-66
051		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-67
052	91285	HILO/GEN.LYMAN	U.S., HAWAII	III-68
053	91275	JOHNSTON ISLAND	NORTH PACIFIC OCEAN	III-69
054		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-70
055		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-71
056	91250	ENIWETOK ATOLL	MARSHALL IS.	III-72
056	91245	WAKE ISLAND	NORTH PACIFIC OCEAN	III-73
057		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-74
058	91217	GUAM	TAGUAC, MARIANA IS.	III-75
059		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-76
060	98223	LAOAG	PHILIPPINES	III-77
060	98646	MACTAN INTL	PHILIPPINES	III-78
061	59981	HSI SHA CHOU/PARACEL IS.	CHINA	III-79
062	48455	BANGKOK	THAILAND	III-80
062	48855	DA-NANG/TOURANE (SD)	VIET NAM	III-81
063	43333	PORT BLAIR	INDIA	III-82
064	43279	MADRAS/MINAMBAKKAM	INDIA	III-83
064	43149	VISHAKHAPATNAM	INDIA	III-84
065	43003	BOMBAY/SANTACRUZ	INDIA	III-85
065	43192	GOA/PANJIM	INDIA	III-86
066		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-87
067		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-88
068	40597	ADEN/KHORMAKSAR	ARABIA-RED SEA	III-89
069	62641	PORT SUDAN	SUDAN	III-90
074	61415	PORT-ETIENNE	MAURITANIA	III-91
074	60020	SANTA CRUZ DE TENEPIFE	CANARY ISLANDS	III-92
075		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-93
076		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-94
077		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-95
078		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-96
079		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-97
080	78076	COFFIN HILLS	BAHAMAS, ELEUTHERA IS.	III-98
080	78063	GOLD ROCK CREEK	BAHAMAS, GRAND BAHAMA IS	III-99
080	78118	TURKS ISLAND (AUX. AFB)	BAHAMAS	III-100
081	72220	APALACHICOLA	U.S., FLORIDA	III-101
081	72232	BOOTHVILLE	U.S., LOUISIANA	III-102
081	74794	CAPE KENNEDY	U.S., FLORIDA	III-103
081	78325	CASA BLANCA	CUBA	III-104

ENVIRONMENTAL DATA BY MARSDEN SQUARE NUMBER

SQUARE NUMBER	BK/STA NUMBER	CITY	COUNTRY	PAGE NUMBER
081	72201	KEY WEST/INT.	U.S., FLORIDA	III-105
081	72202	MIAMI/INT.	U.S., FLORIDA	III-106
081	72211	TAMPA/INT.	U.S., FLORIDA	III-107
082	72250	BROWNSVILLE/R.G.V.INT.	U.S., TEXAS	III-108
083	76458	MAZATLAN	MEXICO	III-109
084	76151	ISLA GUADALUPE	MEXICO	III-110
085		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-111
086		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-112
087		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-113
088	91165	LIHUE	U.S., HAWAII	III-114
089		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-115
090	91066	MIDWAY ISLAND	NORTH PACIFIC OCEAN	III-116
091		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-117
092		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-118
093	91131	MARCUS ISLAND	NORTH PACIFIC OCEAN	III-119
094	91030	CHICHI JIMA ISLAND	NORTH PACIFIC OCEAN	III-120
094	91115	IWO JIMA AIRFIELD	NORTH PACIFIC OCEAN	III-121
095	4YT	FIXED SHIP	PHILIPPINE SEA	III-122
095	47945	MINAMIDAITOJIMA	JAPAN	III-123
096	47918	ISHIGAKIJIMA	JAPAN	III-124
096	47931	KADENA AB	JAPAN	III-125
096	47936	NAHA/KAGAMIZU	JAPAN	III-126
096	47909	NAZE	JAPAN	III-127
096	58666	TA CHEN TAO	CHINA	III-128
096	46692	TAIPEI	CHINA (TAIWAN)	III-129
096	46697	TAOYUAN	CHINA (TAIWAN)	III-130
096	46747	TUNG KONG	CHINA (TAIWAN)	III-131
097	59758	HAIKOU	CHINA	III-132
097	45004	KINGS PARK	HONG KONG	III-133
097	46734	MAKUNG	CHINA (TAIWAN)	III-134
097	46810	PRATAS IS.	CHINA (TAIWAN)	III-135
097	59134	SHAMEN	CHINA	III-136
097	59316	SHANTOU	CHINA	III-137
097	59663	YANGCHIANG	CHINA	III-138
100	42971	BHUBANESWAR	INDIA	III-139
102	41780	KARACHI AIRPORT	PAKISTAN	III-140
103	40427	BAHRAIN/MUHARRAQ	PERSIAN GULF	III-141
103	40564	MASIRAH	ARABIAN PENINSULA	III-142
104	40372	KUWAIT INTERNATIONAL AIRP	KUWAIT	III-143
105	40477	JEDDAH	SAUDI ARABIA	III-144
109	60250	AGADIR/INEZGANE	MOROCCO	III-145
109	60155	CASABLANCA	MOROCCO	III-146
109	60119	KENITRA II	MOROCCO	III-147
109	08536	LISBOA/PORTELA	PORTUGAL	III-148
109	08495	NORTH FRONT	GIBRALTAR	III-149
110	08521	FUNCHAL (MADEIRA)	PORTUGAL	III-150
111	08509	LAJES (AZORES)	PORTUGAL	III-151
112		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-152
113	4YE	FIXED SHIP	NORTH ATLANTIC OCEAN	III-153
114		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-154
115	78616	KINDLEY FIELD AFB	BERMUDA	III-155
116	72304	CAPE HATTERAS	U.S., NORTH CAROLINA	III-156

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117	72208	CHARLESTON/MUN.	U.S., SOUTH CAROLINA	III-159
117	72221	EGLIN AFB	U.S., FLORIDA	III-160
117	72206	JACKSONVILLE/IMESON	U.S., FLORIDA	III-161
120	74704	EL MONTE ENSU	U.S., CALIFORNIA	III-162
120	72295	LOS ANGELES/INT.	U.S., CALIFORNIA	III-163
120	72391	POINT MUGU/NAS	U.S., CALIFORNIA	III-164
120	72290	SAN DIEGO/LINDBERG	U.S., CALIFORNIA	III-165
120	72291	SAN NICOLAS IS./NF	U.S., CALIFORNIA	III-166
121	72493	OAKLAND/UAU	U.S., CALIFORNIA	III-167
121	72393	VANDENBERG AFB	U.S., CALIFORNIA	III-168
122		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-169
123	4YN	FIXED SHIP	NORTH PACIFIC OCEAN	III-170
124		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-171
125		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-172
126		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-173
128	4YV	FIXED SHIP	NORTH PACIFIC OCEAN	III-174
129		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-175
130	47582	AKITA	JAPAN	III-176
130	47590	SENDAI	JAPAN	III-177
131	47807	FUKUOKA	JAPAN	III-178
131	47678	HACHIJOJIMA	JAPAN	III-179
131	47681	HAMAMATSU AB	JAPAN	III-180
131	47827	KAGOSHIMA	JAPAN	III-181
131	47778	SHIONOMISAKI	JAPAN	III-182
131	47881	TOKUSHIMA AB	JAPAN	III-183
131	47600	WAJIMA	JAPAN	III-184
131	47744	YONAGO	JAPAN	III-185
132	47*87	MOSULPO AB	KOREA	III-186
132	47138	POHANG	KOREA	III-187
132	54662	TALIEN	CHINA	III-188
132	54857	TSINGTAO	CHINA	III-189
139	38750	GASAN-KULI	U.S.S.R.	III-190
141	40179	BET DAGAN	ISRAEL	III-191
141	40100	BEYPOUTH (AEROPORT)	LEBANON	III-192
141	17603	EPISKOPI	CYPRUS	III-193
141	17606	NICOSIA AIRFIELD	CYPRUS	III-194
142	16716	ATHINAI/HELLINIKON	GREECE	III-195
142	62053	BENGHAZI/BENINA	LIBYA	III-196
142	16754	HERAKLION CRETE	GREECE	III-197
142	17220	IZMIR	TURKEY	III-198
142	62306	MERSA MATRUH	UNITED ARAB REPUBLIC	III-199
142	62062	TOBRUK	LIBYA	III-200
143	16420	MESSINA	ITALY	III-201
143	16596	QRENDI	MALTA	III-202
143	60715	TUNIS CARTHAGE	TUNISIA	III-203
143	62011	WHEELUS FIELD	LIBYA	III-204
144	60390	ALGER/DAR EL BEIDA	ALGERIA	III-205
144	16560	CAGLIARI/ELMAS	ITALY	III-206
144	08302	PALMA/SON BONET	BALEARIC ISLANDS	III-207
145	07110	BREST/GUIPAVAS	FRANCE	III-208

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147		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-211
148		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-212
149	4YD	FIXED SHIP	NORTH ATLANTIC OCEAN	III-213
150	72807	ARGENTIA	CANADA, NEWFOUNDLAND	III-214
150	72801	ST JOHNS/TOPBAY	CANADA	III-215
159	72815	STEPHENVILLE	CANADA, NEWFOUNDLAND	III-216
151	72600	SABLE ISLAND	CANADA, N.S.	III-217
151	74399	SHELBURNE	CANADA	III-218
152	72528	BUFFALO/GREATER BUFFALO I	U.S., NEW YORK	III-219
152	74494	CHATHAM	U.S., MASSACHUSETTS	III-220
152	72506	NANTUCKET/MEMORIAL	U.S., MASSACHUSETTS	III-221
152	74486	NEW YORK/JFK INT.	U.S., NEW YORK	III-222
152	72606	PORTLAND/MUN.	U.S., MAINE	III-223
153	72534	CHICAGO-MIDWAY	U.S., ILLINOIS	III-224
153	72734	SAULT STE. MARIE	U.S., MICHIGAN	III-225
157	72793	SEATTLE/TACOMA INTL	U.S., WASHINGTON	III-226
157	72798	TATOOSH ISLAND	U.S., WASHINGTON	III-227
158		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-228
159		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-229
160		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-230
161		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-231
162		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-232
163		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-233
164		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-234
165	32186	URUP	U.S.S.R.	III-235
166	32165	JUZNO-KURILSK	U.S.S.R.	III-236
166	32150	JUZNO-SAHALINSK	U.S.S.R.	III-237
166	47580	MISAWA AB	JAPAN	III-238
166	32099	N. TERPENIYA	U.S.S.R.	III-239
166	47420	NEMURO	JAPAN	III-240
166	31770	SOVETSKAYA GAVAN	U.S.S.R.	III-241
166	47401	WAKKANAI	JAPAN	III-242
167	31909	TERNEJ	U.S.S.R.	III-243
167	31960	VLADIVOSTOK	U.S.S.R.	III-244
175	37860	BIAN/BAKU	U.S.S.R.	III-245
175	35700	GUREV	U.S.S.R.	III-246
175	36507	KRASNOVODSK	U.S.S.R.	III-247
176	34880	ASTRAHAN	U.S.S.R.	III-248
176	37260	BABUSERI (SUHUMI)	U.S.S.R.	III-249
176	37484	BATUMI	U.S.S.R.	III-250
177	33837	ODESSA	U.S.S.R.	III-251
177	34731	ROSTOV-NA-DONU	U.S.S.R.	III-252
177	17030	SAMSUN	TURKEY	III-253
177	33946	SIMFEROPOL	U.S.S.R.	III-254
177	37018	TUAPSE	U.S.S.R.	III-255
178	15480	CONSTANTA C.	RUMANIA	III-256
178	17062	ISTANBUL/GOZTEPE	TURKEY	III-257
178	16622	THESSALONIKI/MIKRA	GREECE	III-258
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181	03774	CRAWLEY	UNITED KINGDOM	III-264
181	03920	LONG KESH	UNITED KINGDOM	III-265
181	03170	SHANWELL	UNITED KINGDOM	III-266
181	03026	STORNOWAY	UNITED KINGDOM	III-267
182	4YI	FIXED SHIP	NORTH ATLANTIC OCEAN	III-268
183	4YJ	FIXED SHIP	NORTH ATLANTIC OCEAN	III-269
184	4YC.	FIXED SHIP	NORTH ATLANTIC OCEAN	III-270
185		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-271
186	4YB	FIXED SHIP	NORTH ATLANTIC OCEAN	III-272
187	72906	FORT CHIMO	CANADA, QUEBEC	III-273
187	72811	SEPT-ILES	CANADA, QUEBEC	III-274
188	72907	INOUCDJOUAC	CANADA, QUEBEC	III-275
189	72836	MOOSONEE	CANADA, ONTARIO	III-276
190	72913	CHURCHILL	CANADA, MANITOBA	III-277
193	74109	PORT HARDY	CANADA, BRITISH CO.	III-278
194	70398	ANNETTE ISLAND	U.S., ALASKA	III-279
194	70361	YAKUTAT	U.S., ALASKA	III-280
195	4YP	FIXED SHIP	NORTH PACIFIC OCEAN	III-281
196	70326	KING SALMON	U.S., ALASKA	III-282
196	70350	KODIAK/NAS	U.S., ALASKA	III-283
197	70316	COLD BAY	U.S., ALASKA	III-284
198	70454	ADAK	U.S., ALASKA	III-285
198	70308	ST. PAUL IS.	U.S., ALASKA	III-286
199	70414	SHEMYA	U.S., ALASKA	III-287
200	32618	OSTROV BERINGA	U.S.S.R.	III-288
201	32217	MYS VASILEVA	U.S.S.R.	III-289
201	25913	MAGAEVO	U.S.S.R.	III-290
201	32477	SOBOLEVO	U.S.S.R.	III-291
202	32061	ALEKSANDROVSK SAHALINSKI	U.S.S.R.	III-292
202	31088	OHOTSK	U.S.S.R.	III-293
203	31168	AJAN	U.S.S.R.	III-294
214	26702	KALININGRAD	U.S.S.R.	III-295
214	26406	LIEPAJA	U.S.S.R.	III-296
214	26422	RIGA	U.S.S.R.	III-297
214	26038	TALLIN	U.S.S.R.	III-298
215	02084	BOTEBORG/TORSLANDA	SWEDEN	III-299
215	06181	KOBENHAVEN/GARDERHOJ	DENMARK	III-300
215	12105	KOSZALIN	POLAND	III-301
215	12120	LEBA	POLAND	III-302
215	02160	TINGSTADE	SWEDEN	III-303
216	03496	HEMSBY	UNITED KINGDOM	III-304
216	10035	SCHLESWIG	GERMANY	III-305
216	01415	STAVANGER/SOLA	NORWAY	III-306
217	03005	LERWICK	UNITED KINGDOM	III-307
217	06011	THORSHAVN	DENMARK	III-308
218		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-309
219	4YA	FIXED SHIP	NORTH ATLANTIC OCEAN	III-310
219	04018	KEFLAVIK (2ND STATION)	ICELAND	III-311
220	04360	ANGMAGSSALIK	GREENLAND	III-312

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221	04270	NARSSARSSUAQ	GREENLAND	III-313
222	04220	EGEDESMINDE	GREENLAND	III-314
225	72915	CORAL HARBOUR	CANADA, N.W.T.	III-315
225	74091	HALL BEACH	CANADA, N.W.T.	III-316
227	72925	CAMBRIDGE BAY	CANADA, N.W.T.	III-317
228	72938	COPPERMINE	CANADA, N.W.T.	III-318
233	70133	KOTZEBUE	U.S., ALASKA	III-319
233	25399	MYS UZLEN	U.S.S.R.	III-320
233	70200	NOME	U.S., ALASKA	III-321
234	25594	BUHTA PROVIDENIJA	U.S.S.R.	III-322
234	25173	MYS SNIDTA	U.S.S.R.	III-323
235	25563	ANADYR	U.S.S.R.	III-324
235	25677	BUHTA UGOLNAJA	U.S.S.R.	III-325
236	25934	KORF	U.S.S.R.	III-326
245	23146	MYS KAMENNYJ	U.S.S.R.	III-327
246	23022	AMDERMA	U.S.S.R.	III-328
249	26063	LENINGRAD (TOWN)	U.S.S.R.	III-329
249	22802	SORTOVALA	U.S.S.R.	III-330
250	02057	LULEA/KALLAX	SWEDEN	III-331
251	01152	BODO	NORWAY	III-332
251	02056	SUNDSVALL/HARNOSAND	SWEDEN	III-333
252	4YM	FIXED SHIP	NORWEGIAN SEA	III-334
252	01241	ORLAND	NORWAY	III-335
253	01001	JAN MAYEN	NORWAY	III-336
254	04320	DANMARKSHAVN	GREENLAND	III-337
255	04340	KAP TOBIN	GREENLAND	III-338
259	74090	CLYDE	CANADA, N.W.T.	III-339
259	04202	THULE A.B.	GREENLAND	III-340
262	72924	RESOLUTE	CANADA, N.W.T.	III-341
263	74074	ISACHSEN	CANADA, N.W.T.	III-342
264	74072	MOULD BAY	CANADA, N.W.T.	III-343
265	74051	SACHS HARBOUR	CANADA, N.W.T.	III-344
267	70086	BARTER ISLAND	U.S., ALASKA	III-345
268	70026	BARROW	U.S., ALASKA	III-346
270	21982	OSTROV VRANGELJA	U.S.S.R.	III-347
272	21965	OSTROV CETYREHSTOLBOVOJ	U.S.S.R.	III-348
273	21358	OSTROV ZOHOVA	U.S.S.R.	III-349
274	21647	MYS SALAUROVA	U.S.S.R.	III-350
275	21432	OSTROV KOTEL'NYJ	U.S.S.R.	III-351
276	21824	BUHTA TIKSI	U.S.S.R.	III-352
277	21504	OSTROV PREOBRAZENIJA	U.S.S.R.	III-353
278	20292	MYS CELJUSKIN	U.S.S.R.	III-354
280	20674	OSTROV DIKSON	U.S.S.R.	III-355
280	20274	OSTROV UEDINENIJA	U.S.S.R.	III-356
281	20667	OSTROV BELJY	U.S.S.R.	III-357
281	20069	OSTROV VIZE	U.S.S.R.	III-358
282	20353	MYS ZELANIJA	U.S.S.R.	III-359
283	20744	MALYE KARMAKULY	U.S.S.R.	III-360
287	20107	BARENCBURG	U.S.S.R.	III-361
287	01028	BJOPNOYA	NORWAY	III-362
297	72917	EUREKA	CANADA, N.W.T.	III-363
300		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-364

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301	61902	ASCENSION ISLAND	OCEAN ISLANDS	III-365
303	82400	FERNANDO NORONHA	BRAZIL	III-366
303	82397	FORTALEZA	BRAZIL	III-367
303	82599	NATAL (AUGUSTO SEVERO)	BRAZIL	III-368
303	82900	RECIFE CURADO	BRAZIL	III-369
304	82193	BELEM (VAL DE CAS)	BRAZIL	III-370
304	82280	SAO LUIZ	BRAZIL	III-371
308	84008	SAN CRISTOBAL	ECUADOR	III-372
309		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-373
313	91925	ATUONA	FRENCH OCEANIA	III-374
317	91700	CANTON ISLAND	TOKELAU ISLANDS	III-375
318	91643	FUNAFUTI	ELLICE IS.	III-376
319	91517	HONIARA	BRITISH SOLOMON IS.	III-377
320		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-378
321	94027	LAE	NEW GUINEA, AUSTRALIAN	III-379
322		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-380
323		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-381
324		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-382
325	96743	DJAKARTA/KEMAJORAN	INDONESIA	III-383
326		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-384
328	61967	DIEGO GARCIA	OCEAN ISLANDS	III-385
328	41350	GAN	INDIAN OCEAN, MALDIVE IS	III-386
331		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-387
332	63894	DAR ES SALAAM AIRPORT	TANZANIA	III-388
334	66160	LUANDA	ANGOLA	III-389
335		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-390
336		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-391
339	83229	SALVADOR (ONDINA)	BRAZIL	III-392
342	83208	VILHENA (AEVOPORTO)	BRAZIL	III-393
343	84628	LIMA-CALLAO	PERU	III-394
343	84631	LIMATAMBO	PERU	III-395
350	91944	HAO	FRENCH OCEANIA	III-396
350	91938	TAHITI-FAAA	FRENCH OCEANIA	III-397
353	91765	PAGO PAGO/INT.AIRPORT	AMERICAN SAMOA	III-398
354	91680	NANDI	FIJI ISLANDS	III-399
355	91558	VILA	NEW HEBRIDES	III-400
356	94299	WILLIS ISLAND	AUSTRALIAN NEW GUINEA	III-401
357	94294	TOWNSVILLE	AUSTRALIA	III-402
358	94120	DARWIN AERO	AUSTRALIA	III-403
359	94203	BROOME	AUSTRALIA	III-404
360		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-405
361		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-406
362	96996	COCOS ISLAND	INDONESIA	III-407
367		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-408
368		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-409
370		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-410
371		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-411
374	83650	TRINDADE (ISLAND)	BRAZIL	III-412
375		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-413
376	83746	RIO DE JANEIRO/INTL.	BRAZIL	III-414
379	85442	ANTOFAGASTA/CERRO MORENO	CHILE	III-415
379		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-416

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382	85469	ISLA DE PASCUA	CHILE	III-417
385	91948	RIKITEA	FRENCH OCEANIA	III-418
386	91958	RAPA	FRENCH OCEANIA	III-419
387	91843	RAROTONGA	COOK ISLANDS	III-420
389	93997	RAOUL IS. KERMADEC IS.	NEW ZEALAND	III-421
391	94996	NORFOLK ISLAND	AUSTRALIA	III-422
391	91592	NOUMEA (NLLE-CALEDONIE)	NEW CALEDONIA	III-423
392	94578	BRISBANE AIRPORT	AUSTRALIA	III-424
392	94360	GLADSTONE M.O.	AUSTRALIA	III-425
396	94308	CARNARVON	AUSTRALIA	III-426
396	94312	PORT HEDLAND	AUSTRALIA	III-427
397		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-428
402	61995	VACOAS (MAURITIUS)	OCEAN ISLANDS	III-429
403	67197	FT DAUPHIN	MALAGASY REPUBLIC	III-430
404	67341	LOURENGO MARQUES	MOZAMBIQUE	III-431
406	68406	ALEXANDER BAY	SOUTH WEST AFRICA	III-432
407		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-433
412		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-434
413	87576	EZEIZA	ARGENTINA	III-435
413	83971	PORTO ALEGRE	BRAZIL	III-436
414	87748	BASE AERONAVAL ESPORA	ARGENTINA	III-437
415	85543	QUINTERO	CHILE	III-438
426	93119	AUCKLAND AIRPORT	NEW ZEALAND	III-439
426		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-440
427		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-441
428	94995	LORD HOWE ISLAND	AUSTRALIA	III-442
428	94750	NOWRA	AUSTRALIA	III-443
428	94776	WILLIAMTOWN	AUSTRALIA	III-444
429	94865	LAVERTON (AERO)	AUSTRALIA	III-445
430	94672	ADELAIDE AIRPORT	AUSTRALIA	III-446
431	94638	ESPERANCE M.O.	AUSTRALIA	III-447
432	94802	ALBANY M.O.	AUSTRALIA	III-448
432	94610	PERTH AIRPORT	AUSTRALIA	III-449
436	61996	ILE NOUVELLE-AMSTERDAM	OCEAN ISLANDS	III-450
440	68588	DURBAN (LOUIS BOTHA)	SOUTH AFRICA	III-451
441	68842	PORT ELIZABETH	SOUTH AFRICA	III-452
442		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-453
444	68906	GOUGH ISLAND	SOUTH ATLANTIC OCEAN	III-454
449		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-455
450	87860	COMODORO RIVADAVIA	ARGENTINA	III-456
451	85801	PUERTO MONTT	CHILE	III-457
451	85799	PUERTO MONTT/EL TEP	CHILE	III-458
461	93986	CHATHAM ISLAND	NEW ZEALAND	III-459
462	93780	CHRISTCHURCH AIRPORT	NEW ZEALAND	III-460
465	94975	HOBART AIRPORT	AUSTRALIA	III-461
472	61998	PORT-AUX-FRANCAIS	OCEAN ISLANDS	III-462
476	68994	MARION ISLAND	SOUTH AFRICA	III-463
486	87938	ESTACION AERONAVAL	ARGENTINA	III-464
486	87926	STACION AERONAVAL	ARGENTINA	III-465
487		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-466
499	93944	CAMPBELL ISLAND	NEW ZEALAND	III-467
500	94998	MACQUARIE ISLAND	AUSTRALIA	III-468

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517		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-469
520	88968	NAVAL DETACHMENT	ARGENTINA, ORCADAS IS.	III-470
521	89050	BELLINGHAUSEN	ANTARCTICA	III-471
522	88952	ARGENTINE IS.	ARGENTINA	III-472
523		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-473
524		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-474
525		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-475
526		NO RADIOSONDE STATION IN THIS MARSDEN SQUARE		III-476
537	95502	DUMONT DURVILLE	ANTARCTICA	III-477
540	89611	WILKES	ANTARCTICA	III-478
542	89592	MIRNYJ	ANTARCTICA	III-479
544	89571	DAVIS	ANTARCTICA	III-480
545	94986	MAWSON (AUST.)	ANTARCTICA	III-481
547	89542	MOLODEZNAJA	ANTARCTICA	III-482
548	89532	SYOWA	ANTARCTICA	III-483
552	89001	S.A.N.A.E. STATION	ANTARCTICA	III-484
571	89664	MCMURDO	ANTARCTICA	III-485
902	04310	NORD	GREENLAND	III-486
907	74082	ALERT	CANADA, N.W.T.	III-487
931	20046	OSTROV HEJSA	U.S.S.R	III-488

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144	60390	ALGER/DAR EL BEIDA	ALGERIA	III-205
353	91765	PAGO PAGO/INT.AIRPORT	AMERICAN SAMOA	III-398
334	66160	LUANDA	ANGOLA	III-389
521	89050	BELLINGHAUSEN	ANTARCTICA	III-471
544	89571	DAVIS	ANTARCTICA	III-480
537	95502	DUMONT DURVILLE	ANTARCTICA	III-477
545	94986	MAWSON (AUST.)	ANTARCTICA	III-481
571	89664	MCMURDO	ANTARCTICA	III-485
542	89592	MIRNYJ	ANTARCTICA	III-479
547	89542	MOLODEZNAJA	ANTARCTICA	III-482
552	89001	S.A.N.A.E. STATION	ANTARCTICA	III-484
548	89532	SYOWA	ANTARCTICA	III-483
540	89511	WILKES	ANTARCTICA	III-478
043	78861	COOLIDGE FIELD	ANTIGUA, BRITISH IS.	III-50
068	46597	ADEN/KHORMAKSAR	ARABIA-RED SEA	III-89
103	40564	MASIRAH	ARABIAN PENINSULA	III-142
522	88952	ARGENTINE IS.	ARGENTINA	III-472
414	87748	BASE AERONAVAL ESPORA	ARGENTINA	III-437
450	87860	COMODORO RIVADAVIA	ARGENTINA	III-456
486	87938	ESTACION AERONAVAL	ARGENTINA	III-464
413	87576	EZEIZA	ARGENTINA	III-435
486	87926	STACION AERONAVAL	ARGENTINA	III-465
520	88968	NAVAL DETACHMENT	ARGENTINA, ORCADAS IS.	III-470
430	94672	ADELAIDE AIRPORT	AUSTRALIA	III-446
432	94802	ALBANY M.O.	AUSTRALIA	III-448
392	94578	BRISBANE AIRPORT	AUSTRALIA	III-424
359	94203	BROOME	AUSTRALIA	III-404
395	94300	CARNARVON	AUSTRALIA	III-426
358	94120	DARWIN AERO	AUSTRALIA	III-403
431	94638	ESPERANCE M.O.	AUSTRALIA	III-447
392	94380	GLADSTONE M.O.	AUSTRALIA	III-425
465	94975	HOBART AIRPORT	AUSTRALIA	III-461
429	94865	LAVERTON (AERO)	AUSTRALIA	III-445
428	94995	LORD HOWE ISLAND	AUSTRALIA	III-442
500	94998	MACQUARIE ISLAND	AUSTRALIA	III-468
391	94996	NORFOLK ISLAND	AUSTRALIA	III-422
428	94750	NOWRA	AUSTRALIA	III-443
432	94610	PERTH AIRPORT	AUSTRALIA	III-449
396	94312	PORT HEDLAND	AUSTRALIA	III-427
357	94294	TOWNSVILLE	AUSTRALIA	III-402
428	94776	WILLIAMTOWN	AUSTRALIA	III-444
356	94299	WILLIS ISLAND	AUSTRALIAN NEW GUINEA	III-401
080	78118	TURKS ISLAND (AUX. AFB)	BAHAMAS	III-100
080	78076	COFFIN HILLS	BAHAMAS, ELEUTHERA IS.	III-98
080	78063	GOLD ROCK CREEK	BAHAMAS, GRAND BAHAMA IS	III-99
144	08302	PALMA/SON BONET	BALEARIC ISLANDS	III-207
042	78954	SEAWELL AIRPORT	BARBADOS	III-48
115	78016	KINDLEY FIELD AFB	BERMUDA	III-155
304	82193	BELEM (VAL DE CAS)	BRAZIL	III-370
303	82400	FERNANDO NORONHA	BRAZIL	III-366
303	82397	FORTALEZA	BRAZIL	III-367
303	82599	NATAL (AUGUSTO SEVERO)	BRAZIL	III-368

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413	83971	PORTO ALEGRE	BRAZIL	III-436
303	82900	RECIFE CURADO	BRAZIL	III-369
376	83746	RIO DE JANEIRO/INTL.	BRAZIL	III-414
339	83229	SALVADOR (ONDINA)	BRAZIL	III-392
304	82280	SAO LUIZ	BRAZIL	III-371
374	83650	TRINDADE (ISLAND)	BRAZIL	III-412
342	83208	VILHENA (AEVOPORTO)	BRAZIL	III-393
319	91517	HONIARA	BRITISH SOLOMON IS.	III-377
036	64910	DOUALA	CAMEROON	III-41
151	74399	SHELBURNE	CANADA	III-218
150	72801	ST JOHNS/TORBAY	CANADA	III-215
193	74109	PORT HARDY	CANADA, BRITISH CO.	III-278
190	72913	CHURCHILL	CANADA, MANITOBA	III-277
151	72600	SABLE ISLAND	CANADA, N.S.	III-217
907	74082	ALERT	CANADA, N.W.T.	III-487
227	72925	CAMBRIDGE BAY	CANADA, N.W.T.	III-317
259	74090	CLYDE	CANADA, N.W.T.	III-339
228	72938	COPPERMINE	CANADA, N.W.T.	III-318
225	72915	CORAL HARBOUR	CANADA, N.W.T.	III-315
297	72917	EUREKA	CANADA, N.W.T.	III-363
225	74081	HALL BEACH	CANADA, N.W.T.	III-316
263	74074	ISACHSEN	CANADA, N.W.T.	III-342
264	74072	MOULD BAY	CANADA, N.W.T.	III-343
262	72924	RESOLUTE	CANADA, N.W.T.	III-341
265	74051	SACHS HARBOUR	CANADA, N.W.T.	III-344
150	72807	ARGENTIA	CANADA, NEWFOUNDLAND	III-214
158	72815	STEPHENVILLE	CANADA, NEWFOUNDLAND	III-216
189	72836	MOOSONEE	CANADA, ONTARIO	III-276
187	72906	FORT CHIMO	CANADA, QUEBEC	III-273
188	72907	INOUCDJOUAC	CANADA, QUEBEC	III-275
187	72811	SEPT-ILES	CANADA, QUEBEC	III-274
008	78806	HOWARD AIR FORCE BASE	CANAL ZONE	III-8
074	60020	SANTA CRUZ DE TENERIFE	CANARY ISLANDS	III-92
021	91334	TRUK	CAROLINE ISLANDS	III-23
023	91413	YAP	CAROLINE ISLANDS	III-26
029	43466	COLOMBO	CEYLON	III-37
379	85442	ANTOFAGASTA/CERRO MORENO	CHILE	III-415
382	85469	ISLA DE PASCUA	CHILE	III-417
451	85801	PUERTO MONTT	CHILE	III-457
451	85799	PUERTO MONTT/EL TEP	CHILE	III-458
415	85543	QUINTERO	CHILE	III-438
097	59758	HAIKOW	CHINA	III-132
061	59981	HSI SHA CHOU/PARACEL IS.	CHINA	III-79
097	59134	SHAMEN	CHINA	III-136
097	59316	SHANTOU	CHINA	III-137
096	58666	TA CHEN TAO	CHINA	III-128
132	54662	TALIEN	CHINA	III-188
132	54857	TSINGTAO	CHINA	III-189
097	59663	YANGCHIANG	CHINA	III-138
097	46734	MAKUNG	CHINA (TAIWAN)	III-134
097	46810	PRATAS IS.	CHINA (TAIWAN)	III-135
096	46692	TAIPEI	CHINA (TAIWAN)	III-129

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096	46697	TAOYUAN	CHINA (TAIWAN)	III-130
096	46747	TUNG KONG	CHINA (TAIWAN)	III-131
045	80001	SAN ANDRES	COLOMBIA	III-60
387	91843	RAROTONGA	COOK ISLANDS	III-420
081	78325	CASA BLANCA	CUBA	III-104
044	78367	GUANTANAMO	CUBA	III-57
043	78988	DR. A. PLESMAN AIRPORT	CURACAO	III-51
141	17603	EPISKOPI	CYPRUS	III-193
141	17606	NICOSIA AIRFIELD	CYPRUS	III-194
215	06181	KOBENHAVEN/GARDERHOJ	DENMARK	III-300
217	06011	THORSHAVN	DENMARK	III-308
043	78486	SANTO DOMINGO	DOMINICAN REPUBLIC	III-56
021	91348	PONAPE	EASTERN CAROLINE IS.	III-22
308	84008	SAN CRISTOBAL	ECUADOR	III-372
318	91643	FUNAFUTI	ELLICE IS.	III-376
354	91680	NANDI	FIJI ISLANDS	III-399
180	07761	AJACCIO/CAMPO DEL ORO	FRANCE	III-261
145	07110	BREST/GUIPAVAS	FRANCE	III-208
005	81405	CAYENNE/ROCHAMBEAU	FRENCH GUIANA	III-6
006	81403	KOURON	FRENCH GUIANA	III-7
313	91925	ATUONA	FRENCH OCEANIA	III-374
350	91944	HAO	FRENCH OCEANIA	III-396
386	91958	RAPA	FRENCH OCEANIA	III-419
385	91948	RIKITEA	FRENCH OCEANIA	III-418
350	91938	TAHITI-FAAA	FRENCH OCEANIA	III-397
216	10035	SCHLESWIG	GERMANY	III-305
109	08495	NORTH FRONT	GIBRALTAR	III-149
045	78384	ROBERTS FIELD	GRAND CAYMAN, CAYMAN IS.	III-59
142	16716	ATHINAI/HELLINIKON	GREECE	III-195
142	16754	HERAKLION CRETE	GREECE	III-197
178	16622	THESSALONIKI/MIKRA	GREECE	III-258
220	04360	ANGMAGSSALIK	GREENLAND	III-312
254	04320	DANMARKSHAVN	GREENLAND	III-337
222	04220	EGEDESMINDE	GREENLAND	III-314
255	04340	KAP TOBIN	GREENLAND	III-338
221	04270	NARSSARSSUAQ	GREENLAND	III-313
902	04310	NORD	GREENLAND	III-486
259	04202	THULE A.B.	GREENLAND	III-340
043	78897	RAIZET	GUADELUPE ISLAND	III-54
097	45004	KINGS PARK	HONG KONG	III-133
219	04018	KEFLAVIK (2ND STATION)	ICELAND	III-311
100	42971	BHUBANESWAR	INDIA	III-139
065	43003	BOMBAY/SANTACRUZ	INDIA	III-85
029	43353	COCHIN/WILLINGDON	INDIA	III-36
065	43192	GOA/PANJIM	INDIA	III-86
064	43279	MADRAS/MINAMBAKKAM	INDIA	III-83
063	43333	PORT BLAIR	INDIA	III-82
029	43371	TRIVANDRUM	INDIA	III-38
064	43149	VISHAKHAPATNAM	INDIA	III-84
328	41350	GAN	INDIAN OCEAN, MALDIVE IS	III-386
362	96996	COCOS ISLAND	INDONESIA	III-407
325	96743	DJAKARTA/KEMAJORAN	INDONESIA	III-383

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141	40179	BET DAGAN	ISRAEL	..I-191
179	16320	BRINDISI	ITALY	III-259
144	16560	CAGLIARI/ELMAS	ITALY	III-206
143	16420	MESSINA	ITALY	III-201
179	16242	ROMA/FIUMICINO	ITALY	III-260
001	65578	ABIDJAN	IVORY COAST	III-1
044	78397	KINGSTON/PALISADOES	JAMAICA	III-58
130	47582	AKITA	JAPAN	III-176
131	47807	FUKUOKA	JAPAN	III-178
131	47678	HACHIJOJIMA	JAPAN	III-179
131	47681	HAMAMATSU AB	JAPAN	III-180
096	47918	ISHIGAKIJIMA	JAPAN	III-124
096	47931	KADENA AB	JAPAN	III-125
131	47827	KAGOSHIMA	JAPAN	III-181
095	47945	MINAMIDAITOJIMA	JAPAN	III-123
166	47580	MISAWA AB	JAPAN	III-238
096	47936	NAHA/KAGAMIZU	JAPAN	III-126
096	47909	NAZE	JAPAN	III-127
166	47420	NEMURO	JAPAN	III-240
130	47590	SENDAI	JAPAN	III-177
131	47778	SHIONOMISAKI	JAPAN	III-182
131	47881	TOKUSHIMA AB	JAPAN	III-183
131	47600	WAJIMA	JAPAN	III-184
166	47401	WAKKANAI	JAPAN	III-242
131	47744	YONAGO	JAPAN	III-185
132	47187	MOSULPO AB	KOREA	III-186
132	47138	POHANG	KOREA	III-187
104	40372	KUWAIT INTERNATIONAL AIRP	KUWAIT	III-143
141	40100	BEYROUTH (AEROPORT)	LEBANON	III-192
142	62053	BENGHAZI/BENINA	LIBYA	III-196
142	62062	TOBRUK	LIBYA	III-200
143	62011	WHEELUS FIELD	LIBYA	III-204
403	67197	FT DAUPHIN	MALAGASY REPUBLIC	III-430
026	48615	KOTA BHARU/PENCKLAN	MALAYSIA	III-29
026	48657	KUANTAN/BESERAH	MALAYSIA	III-30
026	48601	PENANG/BAYAN LEPAS	MALAYSIA	III-31
026	48568	SONGKHLA	MALAYSIA	III-33
143	16596	QRENDI	MALTA	III-202
056	91250	ENIWETOK ATOLL	MARSHALL IS.	III-72
020	91366	KWAJALEIN	MARSHALL IS.	III-21
019	91376	MAJURO	MARSHALL IS.	III-19
074	61415	PORT-ETIENNE	MAURITANIA	III-91
084	76151	ISLA GUADALUPE	MEXICO	III-110
048	76723	ISLAND SOCORRA	MEXICO	III-64
083	76458	MAZATLAN	MEXICO	III-109
046	76692	VERACRUZ	MEXICO	III-62
109	60250	AGADIR/INEZGANE	MOROCCO	III-145
109	60155	CASABLANCA	MOROCCO	III-146
109	60119	KENITRA II	MOROCCO	III-147
404	67341	LOURENGO MARQUES	MOZAMBIQUE	III-431
391	91592	NOUMEA (NLLE-CALEDONIE)	NEW CALEDONIA	III-423

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321	9[illegible]27	LAE	NEW GUINEA, AUSTPALIAN	III-379
355	91[illegible]58	VILA	NEW HEBRIDES	III-400
426	93119	AUCKLAND AIRPORT	NEW ZEALAND	III-439
499	93944	CAMPBELL ISLAND	NEW ZEALAND	III-467
461	93986	CHATHAM ISLAND	NEW ZEALAND	III-459
462	93780	CHRISTCHURCH AIRPORT	NEW ZEALAND	III-460
389	93997	RAOUL IS. KERMADEC IS.	NEW ZEALAND	III-421
036	65202	LAGOS OSHODI	NIGERIA	III-42
113	4YE	FIXED SHIP	NORTH ATLANTIC OCEAN	III-153
116	4YH	FIXED SHIP	NORTH ATLANTIC OCEAN	III-157
146	4YK	FIXED SHIP	NORTH ATLANTIC OCEAN	III-210
149	4YD	FIXED SHIP	NORTH ATLANTIC OCEAN	III-213
182	4YI	FIXED SHIP	NORTH ATLANTIC OCEAN	III-268
183	4YJ	FIXED SHIP	NORTH ATLANTIC OCEAN	III-269
184	4YC.	FIXED SHIP	NORTH ATLANTIC OCEAN	III-270
186	4YB	FIXED SHIP	NORTH ATLANTIC OCEAN	III-272
219	4YA	FIXED SHIP	NORTH ATLANTIC OCEAN	III-310
094	91030	CHICHI JIMA ISLAND	NORTH PACIFIC OCEAN	III-120
123	4YN	FIXED SHIP	NORTH PACIFIC OCEAN	III-170
128	4YV	FIXED SHIP	NORTH PACIFIC OCEAN	III-174
195	4YP	FIXED SHIP	NORTH PACIFIC OCEAN	III-281
094	91115	IWO JIMA AIRFIELD	NORTH PACIFIC OCEAN	III-121
053	91275	JOHNSTON ISLAND	NORTH PACIFIC OCEAN	III-69
023	91408	KOROR	NORTH PACIFIC OCEAN	III-25
093	91131	MARCUS ISLAND	NORTH PACIFIC OCEAN	III-119
090	91066	MIDWAY ISLAND	NORTH PACIFIC OCEAN	III-116
019	91610	TARAWA/ GILBERT IS.	NORTH PACIFIC OCEAN	III-20
056	91245	WAKE ISLAND	NORTH PACIFIC OCEAN	III-73
287	01028	BJORNOYA	NORWAY	III-362
251	01152	BODO	NORWAY	III-332
253	01001	JAN MAYEN	NORWAY	III-336
252	01241	ORLAND	NORWAY	III-335
216	01415	STAVANGER/SOLA	NORWAY	III-306
252	4YM	FIXED SHIP	NORWEGIAN SEA	III-334
301	61902	ASCENSION ISLAND	OCEAN ISLANDS	III-365
328	61967	DIEGO GARCIA	OCEAN ISLANDS	III-385
436	61996	ILE NOUVELLE-AMSTERDAM	OCEAN ISLANDS	III-450
472	61998	PORT-AUX-FRANCAIS	OCEAN ISLANDS	III-462
402	61995	VACOAS (MAURITIUS)	OCEAN ISLANDS	III-429
102	41780	KARACHI AIRPORT	PAKISTAN	III-140
103	40427	BAHRAIN/MUHARRAQ	PERSIAN GULF	III-141
343	84628	LIMA-CALLAO	PERU	III-394
343	84631	LIMATAMBO	PERU	III-395
095	4YT	FIXED SHIP	PHILIPPINE SEA	III-122
060	98223	LAOAG	PHILIPPINES	III-77
060	98646	MACTAN INTL	PHILIPPINES	III-78
024	98836	ZAMBOANGA	PHILIPPINES	III-27
215	12105	KOSZALIN	POLAND	III-301
215	12120	LEBA	POLAND	III-302
110	08521	FUNCHAL (MADEIRA)	PORTUGAL	III-150
111	08509	LAJES (AZORES)	PORTUGAL	III-151
109	08536	LISBOA/PORTELA	PORTUGAL	III-148

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178	15480	CONSTANTA C.	RUMANIA	III-256
105	40477	JEDDAH	SAUDI ARABIA	III-144
038	61641	DAKAR/YOFF	SENEGAL	III-44
026	48694	SINGAPORE AIRPORT	SINGAPORE	III-32
440	68588	DURBAN (LOUIS BOTHA)	SOUTH AFRICA	III-451
476	68994	MARION ISLAND	SOUTH AFRICA	III-463
441	68842	PORT ELIZABETH	SOUTH AFRICA	III-452
444	68906	GOUGH ISLAND	SOUTH ATLANTIC OCEAN	III-454
406	69406	ALEXANDER BAY	SOUTH WEST AFRICA	III-432
145	08001	LA CORUNA	SPAIN	III-209
043	78866	JULIANA AIRPORT	ST. MARTIN	III-52
069	62641	PORT SUDAN	SUDAN	III-90
045	78501	SWAN ISLAND	SWAN ISLAND	III-61
215	02084	BOTEBORG/TORSLANDA	SWEDEN	III-299
250	02057	LULEA/KALLAX	SWEDEN	III-331
251	02066	SUNDSVALL/HARNOSAND	SWEDEN	III-333
215	02160	TINGSTADE	SWEDEN	III-303
058	91217	GUAM	TAGUAC, MARIANA IS.	III-75
332	63894	DAR ES SALAAM AIRPORT	TANZANIA	III-388
062	48455	BANGKOK	THAILAND	III-80
317	91700	CANTON ISLAND	TOKELAU ISLANDS	III-375
043	78967	CHAGUARAMAS	TRINIDAD	III-49
043	78970	PIARCO/PORT OF SPAIN	TRINIDAD + TOBAGO	III-53
143	60715	TUNIS CARTHAGE	TUNISIA	III-203
178	17062	ISTANBUL/GOZTEPE	TURKEY	III-257
142	17220	IZMIR	TURKEY	III-198
177	17030	SAMSUN	TURKEY	III-253
198	70454	ADAK	U.S., ALASKA	III-285
194	70398	ANNETTE ISLAND	U.S., ALASKA	III-279
268	70026	BARROW	U.S., ALASKA	III-346
267	70086	BARTER ISLAND	U.S., ALASKA	III-345
197	70316	COLD BAY	U.S., ALASKA	III-284
196	70326	KING SALMON	U.S., ALASKA	III-282
196	70350	KODIAK/NAS	U.S., ALASKA	III-283
233	70133	KOTZEBUE	U.S., ALASKA	III-319
233	70200	NOME	U.S., ALASKA	III-321
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198	70308	ST. PAUL IS.	U.S., ALASKA	III-286
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082	72250	BROWNSVILLE/R.G.V.INT.	U.S., TEXAS	III-108
120	72290	SAN DIEGO/LINDBERG	U.S., CALIFORNIA	III-165
120	72291	SAN NICOLAS IS./NF	U.S., CALIFORNIA	III-166
120	72295	LOS ANGELES/INT.	U.S., CALIFORNIA	III-163
116	72304	CAPE HATTERAS	U.S., NORTH CAROLINA	III-156
120	72391	POINT MUGU/NAS	U.S., CALIFORNIA	III-164
121	72393	VANDENBERG AFB	U.S., CALIFORNIA	III-168
116	72402	WALLOPS ISLAND	U.S., VIRGINIA	III-158
121	72493	OAKLAND/UAU	U.S., CALIFORNIA	III-167
152	72506	NANTUCKET/MEMORIAL	U.S., MASSACHUSETTS	III-221
152	72528	BUFFALO/GREATER BUFFALO I	U.S., NEW YORK	III-219
153	72534	CHICAGO-MIDWAY	U.S., ILLINOIS	III-224
151	72600	SABLE ISLAND	CANADA, N.S.	III-217
152	72606	PORTLAND/MUN.	U.S., MAINE	III-223
153	72734	SAULT STE. MARIE	U.S., MICHIGAN	III-225
157	72793	SEATTLE/TACOMA INTL	U.S., WASHINGTON	III-226
157	72798	TATOOSH ISLAND	U.S., WASHINGTON	III-227
150	72801	ST JOHNS/TORBAY	CANADA	III-215
150	72807	ARGENTIA	CANADA, NEWFOUNDLAND	III-214
187	72811	SEPT-ILES	CANADA, QUEBEC	III-274
150	72815	STEPHENVILLE	CANADA, NEWFOUNDLAND	III-216
189	72836	MOOSONEE	CANADA, ONTARIO	III-276
187	72906	FORT CHIMO	CANADA, QUEBEC	III-273
188	72907	INUUCDJOUAC	CANADA, QUEBEC	III-275
198	72913	CHURCHILL	CANADA, MANITOBA	III-277
225	72915	CORAL HARBOUR	CANADA, N.W.T.	III-315
297	72917	EUREKA	CANADA, N.W.T.	III-363
262	72924	RESOLUTE	CANADA, N.W.T.	III-341
227	72925	CAMBRIDGE BAY	CANADA, N.W.T.	III-317

RADIOSONDE STATIONS BY WMO BLOCK AND STATION NUMBER

SQUARE NUMBER	BK/STA NUMBER	CITY	COUNTRY	PAGE NUMBER
228	72938	COPPERMINE	CANADA, N.W.T.	III-318
265	74051	SACHS HARBOUR	CANADA, N.W.T.	III-344
264	74072	MOULD BAY	CANADA, N.W.T.	III-343
263	74074	ISACHSEN	CANADA, N.W.T.	III-342
225	74081	HALL BEACH	CANADA, N.W.T.	III-316
907	74082	ALERT	CANADA, N.W.T.	III-487
259	74090	CLYDE	CANADA, N.W.T.	III-339
193	74109	PORT HARDY	CANADA, BRITISH CO.	III-278
151	74399	SHELBURNE	CANADA	III-218
152	74486	NEW YORK/JFK INT.	U.S., NEW YORK	III-222
152	74494	CHATHAM	U.S., MASSACHUSETTS	III-220
120	74704	EL MONTE EMSU	U.S., CALIFORNIA	III-162
081	74794	CAPE KENNEDY	U.S., FLORIDA	III-103
084	76151	ISLA GUADALUPE	MEXICO	III-110
083	76458	MAZATLAN	MEXICO	III-109
046	76692	VERACRUZ	MEXICO	III-62
048	76723	ISLAND SOCORRA	MEXICO	III-64
115	78016	KINDLEY FIELD AFB	BERMUDA	III-155
080	78063	GOLD ROCK CREEK	BAHAMAS, GRAND BAHAMA IS	III-99
080	78076	COFFIN HILLS	BAHAMAS, ELEUTHERA IS.	III-98
080	78118	TURKS ISLAND (AUX. AFB)	BAHAMAS	III-100
081	78325	CASA BLANCA	CUBA	III-104
044	78367	GUANTANAMO	CUBA	III-57
045	78384	ROBERTS FIELD	GRAND CAYMAN, CAYMAN IS.	III-59
044	78397	KINGSTON/PALISADOES	JAMAICA	III-58
043	78486	SANTO DOMINGO	DOMINICAN REPUBLIC	III-56
045	78501	SWAN ISLAND	SWAN ISLAND	III-61
043	78526	SAN JUAN/INT.	PUERTO RICO	III-55
008	78806	HOWARD AIR FORCE BASE	CANAL ZONE	III-8
043	78861	COOLIDGE FIELD	ANTIGUA, BRITISH IS.	III-50
043	78866	JULIANA AIRPORT	ST. MARTIN	III-52
043	78897	RAIZET	GUADELUPE ISLAND	III-54
042	78954	SEAWELL AIRPORT	BARBADOS	III-48
043	78967	CHAGUARAMAS	TRINIDAD	III-49
043	78970	PIARCO/PORT OF SPAIN	TRINIDAD + TOBAGO	III-53
043	78988	DR. A. PLESMAN AIRPORT	CURACAO	III-51
045	80001	SAN ANDRES	COLOMBIA	III-60
006	81403	KOUROU	FRENCH GUIANA	III-7
006	81405	CAYENNE/ROCHAMBEAU	FRENCH GUIANA	III-6
304	82193	BELEM (VAL DE CAS)	BRAZIL	III-370
304	82280	SAO LUIZ	BRAZIL	III-371
303	82397	FORTALEZA	BRAZIL	III-367
303	82400	FERNANDO NORONHA	BRAZIL	III-366
303	82599	NATAL (AUGUSTO SEVERO)	BRAZIL	III-368
303	82900	RECIFE CURADO	BRAZIL	III-369
342	83208	VILHENA (AEVOPORTO)	BRAZIL	III-393
339	83229	SALVADOR (ONDINA)	BRAZIL	III-392
374	83650	TRINDADE (ISLAND)	BRAZIL	III-412
376	83746	RIO DE JANEIRO/INTL.	BRAZIL	III-414
413	83971	PORTO ALEGRE	BRAZIL	III-436
308	84008	SAN CPISTOBAL	ECUADOR	III-372
343	84628	LIMA-CALLAO	PERU	III-394

RADIOSONDE STATIONS BY WMO BLOCK AND STATION NUMBER

SQUARE NUMBER	BK/STA NUMBER	CITY	COUNTRY	PAGE NUMBER
343	84631	LIMATAMBO	PERU	III-395
379	85442	ANTOFAGASTA/CERRO MORENO	CHILE	III-415
382	85469	ISLA DE PASCUA	CHILE	III-417
415	85543	QUINTERO	CHILE	III-438
451	85799	PUERTO MONTT/EL TEP	CHILE	III-458
451	85801	PUERTO MONTT	CHILE	III-457
413	87576	EZEIZA	ARGENTINA	III-435
414	87748	BASE AERONAVAL ESPORA	ARGENTINA	III-437
450	87860	COMODORO RIVADAVIA	ARGENTINA	III-456
486	87926	STACION AERONAVAL	ARGENTINA	III-465
486	87938	ESTACION AERONAVAL	ARGENTINA	III-464
522	88952	ARGENTINE IS.	ARGENTINA	III-472
520	88968	NAVAL DETACHMENT	ARGENTINA, ORCADAS IS.	III-470
552	89001	S.A.N.A.E. STATION	ANTARCTICA	III-484
521	89050	BELLINGHAUSEN	ANTARCTICA	III-471
548	89532	SYOWA	ANTARCTICA	III-483
547	89542	MOLODEZNAJA	ANTARCTICA	III-482
544	89571	DAVIS	ANTARCTICA	III-480
542	89592	MIRNYJ	ANTARCTICA	III-479
540	89611	WILKES	ANTARCTICA	III-478
571	89664	MCMURDO	ANTARCTICA	III-485
094	91030	CHICHI JIMA ISLAND	NORTH PACIFIC OCEAN	III-120
090	91066	MIDWAY ISLAND	NORTH PACIFIC OCEAN	III-116
094	91115	IWO JIMA AIRFIELD	NORTH PACIFIC OCEAN	III-121
093	91131	MARCUS ISLAND	NORTH PACIFIC OCEAN	III-119
088	91165	LIHUE	U.S., HAWAII	III-114
058	91217	GUAM	TAGUAC, MARIANA IS.	III-75
056	91245	WAKE ISLAND	NORTH PACIFIC OCEAN	III-73
056	91250	ENIWETOK ATOLL	MARSHALL IS.	III-72
053	91275	JOHNSTON ISLAND	NORTH PACIFIC OCEAN	III-69
052	91285	HILO/GEN.LYMAN	U.S., HAWAII	III-68
021	91334	TRUK	CAROLINE ISLANDS	III-23
021	91348	PONAPE	EASTERN CAROLINE IS.	III-22
020	91366	KWAJALEIN	MARSHALL IS.	III-21
019	91376	MAJURO	MARSHALL IS.	III-19
023	91408	KOROR	NORTH PACIFIC OCEAN	III-25
023	91413	YAP	CAROLINE ISLANDS	III-26
319	91517	HONIARA	BRITISH SOLOMON IS.	III-377
355	91558	VILA	NEW HEBRIDES	III-400
391	91592	NOUMEA (NLLE-CALEDONIE)	NEW CALEDONIA	III-423
019	91618	TARAWA/ GILBERT IS.	NORTH PACIFIC OCEAN	III-20
318	91643	FUNAFUTI	ELLICE IS.	III-376
354	91680	NANDI	FIJI ISLANDS	III-399
317	91700	CANTON ISLAND	TOKELAU ISLANDS	III-375
353	91765	PAGO PAGO/INT.AIRPORT	AMERICAN SAMOA	III-398
387	91843	RAROTONGA	COOK ISLANDS	III-420
313	91925	ATUONA	FRENCH OCEANIA	III-374
350	91938	TAHITI-FAAA	FRENCH OCEANIA	III-397
350	91944	HAO	FRENCH OCEANIA	III-396
385	91948	RIKITER	FRENCH OCEANIA	III-418
386	91958	RAPA	FRENCH OCEANIA	III-419
426	93119	AUCKLAND AIRPORT	NEW ZEALAND	III-409

RADIOSONDE STATIONS BY WMO BLOCK AND STATION NUMBER

SQUARE NUMBER	BK/STA NUMBER	CITY	COUNTRY	PAGE NUMBER
462	93780	CHRISTCHURCH AIRPORT	NEW ZEALAND	III-460
499	93944	CAMPBELL ISLAND	NEW ZEALAND	III-467
461	93986	CHATHAM ISLAND	NEW ZEALAND	III-459
389	93997	RAOUL IS. KERMADEC IS.	NEW ZEALAND	III-421
321	94027	LAE	NEW GUINEA, AUSTRALIAN	III-379
358	94120	DARWIN AERO	AUSTRALIA	III-403
359	94203	BROOME	AUSTRALIA	III-404
357	94294	TOWNSVILLE	AUSTRALIA	III-402
356	94299	WILLIS ISLAND	AUSTRALIAN NEW GUINEA	III-401
396	94300	CARNARVON	AUSTRALIA	III-426
396	94312	PORT HEDLAND	AUSTRALIA	III-427
392	94380	GLADSTONE M.O.	AUSTRALIA	III-425
392	94578	BRISBANE AIRPORT	AUSTRALIA	III-424
432	94610	PERTH AIRPORT	AUSTRALIA	III-449
431	94638	ESPERANCE M.O.	AUSTRALIA	III-447
430	94672	ADELAIDE AIRPORT	AUSTRALIA	III-446
428	94750	NOWRA	AUSTRALIA	III-443
428	94776	WILLIAMTOWN	AUSTRALIA	III-444
432	94802	ALBANY N.O.	AUSTRALIA	III-448
429	94865	LAVERTON (AERO)	AUSTRALIA	III-445
465	94975	HOBART AIRPORT	AUSTRALIA	III-461
545	94986	MAWSON (AUST.)	ANTARCTICA	III-481
428	94995	LORD HOWE ISLAND	AUSTRALIA	III-442
391	94996	NORFOLK ISLAND	AUSTRALIA	III-422
500	94998	MACQUARIE ISLAND	AUSTRALIA	III-468
537	95502	DUMONT DURVILLE	ANTARCTICA	III-477
025	96471	JESSELTON	INDONESIA, N. BORNEO	III-28
325	96743	DJAKARTA/KEMAJORAN	INDONESIA	III-383
362	96996	COCOS ISLAND	INDONESIA	III-407
060	98223	LAOAG	PHILIPPINES	III-77
060	98646	MACTAN INTL	PHILIPPINES	III-78
024	98836	ZAMBOANGA	PHILIPPINES	III-27

IREPS REV 2.1 **HISTORICAL PROPAGATION CONDITIONS SUMMARY**

Specified location: 5 15 N 3 55 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 65578 5 15 N 3 55 W
Radiosonde station height: 20 Feet
Surface obs source: MS1 5 00 N 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	3	3	5	6	6	3	3	3	3	2	3	4	1	3
1 GHz	40	19	30	53	31	42	33	18	26	28	14	21	46	14	30
3 GHz	48	24	36	61	38	50	40	24	32	36	18	27	53	17	35
6 GHz	72	50	61	80	39	69	69	56	62	65	44	54	75	41	58
10 GHz	90	83	87	93	86	89	90	85	88	87	78	83	92	83	87
20 GHz	96	92	94	97	93	95	96	93	95	93	89	91	96	93	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	22	18	20	30	32	31	19	17	18	14	13	14	24	9	1
AVG thickness Kft			.36			.34			.37			.40			.32
AVG trap freq GHz			.53			.45			.61			.44			.64
AVG lyr grd -N/Kft			103			94			101			110			107

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	10	11	10	21	13	17	1	7	4	11	13	12	6	10	8
AVG top ht Kft			5.9			6.5			4.2			5.3			6.6
AVG thickness Kft			.62			.59			.94			.53			.41
AVG trap freq GHz			.32			.40			.13			.29			.21
AVG lyr grd -N/Kft			64			59			74			61			62
AVG lyr base Kft			5.5			6.1			3.6			6.0			6.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	3	3	2	3	3	2	2	2	5	6	5	3	2	2
10 to 20 Feet	3	7	5	3	8	5	3	6	5	4	7	6	2	5	4
20 to 30 Feet	6	11	9	6	11	8	7	10	8	7	12	10	6	11	8
30 to 40 Feet	9	17	13	7	17	12	11	13	12	10	17	13	9	19	14
40 to 50 Feet	13	23	18	11	22	16	15	22	18	16	22	19	12	26	19
50 to 60 Feet	14	18	16	11	16	14	16	22	19	15	16	16	12	17	15
60 to 70 Feet	9	8	8	9	7	8	10	9	10	10	8	9	7	6	7
70 to 80 Feet	6	4	5	5	4	4	7	4	6	7	4	6	6	2	4
80 to 90 Feet	4	2	3	4	2	3	3	2	3	4	1	3	3	1	2
90 to 100 Feet	2	1	2	2	1	2	2	1	2	2	1	2	2	1	1
above 100 Feet	31	8	20	41	11	26	24	9	16	21	5	13	37	9	23
Mean height Feet	89	54	71	104	57	81	80	56	68	73	47	60	99	54	76

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			3			0			1			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			387			392			388			382			386
AVG station -N/Kft			19			22			19			17			18
AVG sfc wind kts	8.8	8.6	8.7	7.4	7.2	7.3	9.0	8.7	8.8	10	10	10	8.5	8.4	8.4

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 15 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 61641 14 43 N 17 30 W
Radiosonde station height: 89 Feet
Surface obs source: MS2 5 00 N 15 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	17	22	20	22	29	25	22	25	24	4	4	4	21	30	26
1 GHz	63	63	63	76	82	79	70	69	69	34	21	28	72	81	77
3 GHz	68	68	68	80	87	84	74	72	73	44	28	36	76	85	80
6 GHz	84	80	82	89	90	89	86	81	84	74	58	66	86	89	87
10 GHz	95	93	94	95	96	96	95	93	94	93	88	91	95	95	95
20 GHz	98	97	97	98	98	98	98	97	98	97	95	96	98	98	98

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	51	65	58	65	85	75	59	68	64	23	24	24	58	83	71
AVG thickness Kft			.66			.58			.75			.60			.68
AVG trap freq GHz			.23			.17			.15			.44			.15
AVG lyr grd -N/Kft			106			104			105			111			105

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	27	21	24	21	14	18	39	24	32	26	26	27	23	18	21
AVG top ht Kft			1.8			1.1			1.7			2.7			1.7
AVG thickness Kft			.77			.60			.84			.87			.76
AVG trap freq GHz			.18			.19			.16			.12			.26
AVG lyr grd -N/Kft			61			66			59			60			60
AVG lyr base Kft			1.2			.71			1.1			2.0			1.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	2	4	3	2	2	2	1	2	2	2	2	2
10 to 20 Feet	3	9	6	4	12	8	3	8	5	2	5	3	3	11	7
20 to 30 Feet	7	12	9	6	14	10	7	12	10	6	9	7	8	14	11
30 to 40 Feet	9	16	13	8	17	13	9	15	12	10	17	13	9	17	13
40 to 50 Feet	13	21	17	12	19	16	14	21	18	14	23	18	11	22	17
50 to 60 Feet	13	16	15	11	13	12	14	16	15	16	20	19	12	15	13
60 to 70 Feet	9	8	9	7	5	6	10	10	10	12	11	12	8	5	7
70 to 80 Feet	6	4	5	5	3	4	6	4	5	9	6	7	5	2	4
80 to 90 Feet	4	2	3	3	1	2	4	2	3	5	2	4	3	1	2
90 to 100 Feet	2	1	2	2	1	1	2	1	2	3	1	2	2	1	1
above 100 Feet	32	8	20	40	10	25	30	9	19	22	5	14	37	9	23
Mean height Feet	92	54	73	101	53	77	88	56	72	79	53	66	99	53	76

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur ELASD dcts			5			5			5			3			5
% occur 2+ EL dcts			3			1			4			4			3
AVG station N			365			348			361			382			367
AVG station -N/Kft			25			27			28			19			28
AVG sfc wind Kts	8.4	7.7	8.0	6.8	6.1	6.5	8.0	7.3	7.7	12	11	11	7.2	6.6	6.9

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 25 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 82400 3 51 S 32 25 W
Radiosonde station height: 148 Feet
Surface obs source: MS3 5 00 N 25 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	*	*	*	*	*	*	1	1	1	*	*	*
1 GHz	29	9	19	*	*	*	*	*	*	29	9	19	*	*	*
3 GHz	41	15	28	*	*	*	*	*	*	41	15	28	*	*	*
6 GHz	73	54	64	*	*	*	*	*	*	73	54	64	*	*	*
10 GHz	93	87	90	*	*	*	*	*	*	93	87	90	*	*	*
20 GHz	97	94	96	*	*	*	*	*	*	97	94	96	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	5	4	*	*	*	*	*	*	6	10	8	0	0	0
AVG thickness Kft			.39			*			*			.39			*
AVG trap freq GHz			1.1			*			*			1.1			*
AVG lyr grd -N/Kft			78			*			*			78			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	34	16	25	*	*	*	*	*	*	30	32	31	38	0	19
AVG top ht Kft			5.5			*			*			5.8			5.3
AVG thickness Kft			.44			*			*			.58			.50
AVG trap freq GHz			.65			*			*			.32			1.0
AVG lyr grd -N/Kft			56			*			*			60			52
AVG lyr base Kft			5.2			*			*			5.4			5.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	2	2	2	2	2	2	1	1	1	2	2	2
10 to 20 Feet	2	5	4	2	4	3	3	5	4	2	4	3	3	5	4
20 to 30 Feet	4	9	7	4	8	6	5	9	7	4	8	6	5	10	7
30 to 40 Feet	8	15	11	7	15	11	8	15	12	9	13	11	8	16	12
40 to 50 Feet	12	22	17	12	22	17	12	22	17	12	21	17	11	21	16
50 to 60 Feet	13	19	16	12	19	16	13	20	16	12	20	16	14	18	16
60 to 70 Feet	11	12	12	13	13	13	10	11	11	11	12	12	10	11	10
70 to 80 Feet	9	7	8	10	8	9	9	7	8	10	9	10	9	6	8
80 to 90 Feet	6	3	4	7	3	5	5	2	4	7	3	5	6	3	5
90 to 100 Feet	4	1	3	4	1	3	4	1	2	4	1	3	4	2	3
above 100 Feet	28	5	17	26	5	16	30	6	18	27	5	16	29	5	17
Mean height Feet	88	54	71	86	54	70	89	54	72	87	55	71	89	53	71

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			0			3			0
% occur 2+ EL dcts			1			0			2			2			0
AVG station N			372			*			*			372			371
AVG station -N/Kft			18			*			*			18			17
AVG sfc wind Kts	11	10	10	12	10	11	10	9.5	10	11	10	11	10	9.3	10

IPEPS REV 2.1 -TACTICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 35 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 82406 3 51 S 32 25 W
Radiosonde station height: 148 Feet
Surface obs source: MS4 5 00 N 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	*	*	*	*	*	*	1	1	1	*	*	*
1 GHz	35	10	22	*	*	*	*	*	*	35	10	22	*	*	*
3 GHz	46	18	32	*	*	*	*	*	*	46	18	32	*	*	*
6 GHz	76	61	68	*	*	*	*	*	*	76	61	68	*	*	*
10 GHz	93	89	91	*	*	*	*	*	*	93	89	91	*	*	*
20 GHz	96	95	96	*	*	*	*	*	*	96	95	96	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	5	4	*	*	*	*	*	*	6	10	8	0	0	0
AVG thickness Kft			.39			*			*			.39			*
AVG trap freq GHz			1.1			*			*			1.1			*
AVG lyr grd -N/Kft			78			*			*			78			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	34	16	25	*	*	*	*	*	*	30	32	31	38	6	19
AVG top ht Kft			5.5			*			*			5.8			5.3
AVG thickness Kft			.44			*			*			.58			.38
AVG trap freq GHz			.65			*			*			.32			1.0
AVG lyr grd -N/Kft			56			*			*			60			52
AVG lyr base Kft			5.2			*			*			5.4			5.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	1	2	1	2	2	1	1	2	1	1	1	2	1
10 to 20 Feet	2	3	3	2	3	3	3	4	3	2	4	3	1	2	2
20 to 30 Feet	4	7	5	4	6	5	4	8	6	4	6	5	4	6	5
30 to 40 Feet	7	13	10	8	14	11	8	14	11	7	12	9	6	11	9
40 to 50 Feet	11	20	16	11	19	15	11	22	16	11	19	15	10	22	16
50 to 60 Feet	12	22	17	13	28	16	13	21	17	12	23	17	12	23	18
60 to 70 Feet	12	14	13	13	14	13	10	14	12	10	14	12	13	15	14
70 to 80 Feet	10	9	10	11	10	11	9	7	8	9	9	9	11	9	10
80 to 90 Feet	7	4	5	7	4	6	7	2	5	6	4	5	5	4	5
90 to 100 Feet	4	2	3	4	2	3	5	1	3	5	2	4	4	2	3
above 100 Feet	30	5	17	24	5	15	30	6	18	33	6	19	33	4	18
Mean height Feet	80	56	73	83	57	78	89	55	72	93	58	76	94	55	75

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SE dcts			1			0			0			3			0
% occur 2+ EL dcts			1			0			2			2			0
AVG station N			372			*			*			372			371
AVG station -N/Kft			18			*			*			18			17
AVG lfc wind Kts	12	11	12	13	12	13	12	11	11	12	11	11	12	11	12

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY:

Specified location: 5 00 N 45 09 W (+) INDICATES INSUFFICIENT DATA
Radiosonde source : 82193 1 22 S 48 28 W
Radiosonde station height: 52 Feet
Surface obs source: MSS 5 00 N 45 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	2	0	1	0	0	0	2	0	1	2	0	1
1 GHz	37	7	22	31	5	18	31	6	19	44	8	26	43	8	26
3 GHz	50	14	32	48	15	32	44	13	28	53	14	33	54	15	34
6 GHz	80	63	71	82	68	75	78	63	71	78	57	67	82	62	72
10 GHz	94	91	92	94	94	94	94	93	94	91	87	89	95	91	93
20 GHz	97	96	96	97	98	97	97	97	97	95	94	94	97	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	0	5	11	0	6	4	0	2	10	0	5	12	0	6
AVG thickness Kft			.34			.27			.28			.44			.37
AVG trap freq GHz			.90			.52			2.0			.49			.69
AVG lyr grd -N/Kft			179			228			173			140			197

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	22	3	12	16	9	8	8	0	4	23	10	17	42	0	21
AVG top ht Kft			8.0			8.6			8.8			7.4			7.1
AVG thickness Kft			.58			.43			.66			.58			.41
AVG trap freq GHz			.44			.44			.34			.55			.45
AVG lyr grd -N/Kft			59			66			57			58			56
AVG lyr base Kft			7.6			8.3			8.3			7.0			6.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	1	2	2	1	1	2	1	2	2	1	2
10 to 20 Feet	2	3	2	2	1	1	2	2	2	2	5	4	1	3	2
20 to 30 Feet	3	5	4	3	4	3	4	4	4	4	7	6	2	5	4
30 to 40 Feet	5	10	8	5	8	7	6	10	8	6	11	9	5	10	8
40 to 50 Feet	10	19	14	9	17	13	10	20	15	9	19	14	10	20	15
50 to 60 Feet	12	22	17	12	21	16	12	24	18	11	21	16	11	21	16
60 to 70 Feet	11	16	14	13	18	16	12	17	14	9	14	12	10	16	13
70 to 80 Feet	10	10	10	12	13	13	11	10	11	7	8	8	9	10	9
80 to 90 Feet	7	5	6	10	7	8	7	5	6	5	4	4	5	4	5
90 to 100 Feet	5	2	4	7	4	5	5	2	4	3	2	3	4	2	3
above 100 Feet	33	7	20	25	5	15	30	6	18	40	8	24	38	8	23
Mean height Feet	95	60	78	86	61	73	91	59	75	103	59	81	101	61	81

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB ducts			1			2			0			1			1
% occur 2+ EL ducts			5			3			1			8			6
AVG station N			388			387			389			387			387
AVG station -N/Kft			22			21			21			21			24
AVG sfc wind Kts	14	13	13	17	16	16	14	14	14	10	10	10	13	12	12

IREPS REV 2.1 -ISTICAL PROPAGATION CONDITIONS SUMMAR

Specified location: 4 49 N 52 22 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 81405 4 49 N 52 22 W
Radiosonde station height: 26 Feet
Surface obs source: MSS 5 00 N 45 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM CON RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	2	0	1	3	0	1	1	0	1	1	0	1
1 GHz	38	7	22	32	5	18	37	6	21	43	8	25	41	8	25
3 GHz	51	14	32	49	15	32	50	13	31	51	14	33	53	15	34
6 GHz	80	63	71	82	68	75	81	63	72	77	57	67	81	62	71
10 GHz	94	91	92	94	94	94	94	93	94	91	87	89	95	91	93
20 GHz	97	96	96	97	98	97	97	97	97	95	94	94	97	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	0	6	17	0	9	13	0	7	8	0	4	9	0	5
AVG thickness Kft			.35			.32			.40			.36			.34
AVG trap freq GHz			.70			1.0			.36			.72			.72
AVG lyr grd -N/Kft			149			164			113			177			141

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	11	0	5	11	0	6	11	0	6	11	0	6	10	0	5
AVG top ht Kft			6.0			7.0			7.7			5.3			4.0
AVG thickness Kft			.36			.35			.24			.48			.35
AVG trap freq GHz			1.8			1.2			3.1			.57			2.2
AVG lyr grd -N/Kft			57			55			53			69			51
AVG lyr base Kft			5.7			6.7			7.5			5.0			3.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	1	2	2	1	1	2	1	2	2	1	2
10 to 20 Feet	2	3	2	2	1	1	2	2	2	2	5	4	1	3	2
20 to 30 Feet	3	5	4	3	4	3	4	4	4	4	7	6	2	5	4
30 to 40 Feet	5	10	8	5	8	7	6	10	8	5	11	8	5	10	8
40 to 50 Feet	10	19	14	9	17	13	10	20	15	9	19	14	10	20	15
50 to 60 Feet	12	22	17	12	21	16	12	24	18	11	21	16	11	21	16
60 to 70 Feet	11	16	14	13	18	16	12	17	14	9	14	12	10	16	13
70 to 80 Feet	10	10	10	12	13	13	11	10	11	7	8	8	9	10	9
80 to 90 Feet	7	5	6	10	7	8	7	5	6	5	4	4	6	4	5
90 to 100 Feet	5	2	4	7	4	5	5	2	4	3	2	3	4	2	3
above 100 Feet	33	7	20	25	5	15	30	6	18	40	8	24	38	8	23
Mean height Feet	95	60	78	86	61	73	91	59	75	103	59	81	101	61	81

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			0			1			1
% occur 2+ EL dcts			1			1			0			0			1
AVG station N			384			383			385			382			386
AVG station -N/Kft			20			19			19			22			21
AVG sfc wind kts	14	13	13	17	16	16	14	14	14	10	10	10	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 12 N 52 42 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 81403 5 12 N 52 42 W
Radiosonde station height: 26 Feet
Surface obs source: MSS 5 00 N 45 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESN CON RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	2	2	0	3	2	*	*	*	*	*	*	6	0	3
1 GHz	40	13	26	27	17	22	*	*	*	*	*	*	53	8	31
3 GHz	55	22	38	44	30	37	*	*	*	*	*	*	65	15	40
6 GHz	83	68	76	80	74	77	*	*	*	*	*	*	87	62	74
10 GHz	95	93	94	94	95	94	*	*	*	*	*	*	96	91	94
20 GHz	97	97	97	96	98	97	*	*	*	*	*	*	98	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	13	13	3	22	13	0	17	9	*	*	*	38	0	19
AVG thickness Kft			.17			.18			0			*			.32
AVG trap freq GHz			.42			.70			0			*			.55
AVG lyr grd -N Kft			131			181			-			*			82

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	12	9	10	4	7	0	13	7	*	*	*	8	20	14
AVG top ht Kft			6.9			7.1			7.2			*			6.3
AVG thickness Kft			.49			.76			.36			*			.54
AVG trap freq GHz			.85			.11			.83			*			1.6
AVG lyr grd -N/Kft			90			88			51			*			130
AVG lyr base Kft			6.6			6.7			6.9			*			6.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	1	2	2	1	1	2	1	2	2	1	2
10 to 20 Feet	2	3	2	2	1	1	2	2	2	2	5	4	1	3	2
20 to 30 Feet	3	5	4	3	4	3	4	4	4	4	7	6	2	5	4
30 to 40 Feet	5	10	8	5	8	7	6	10	8	6	11	8	5	10	8
40 to 50 Feet	10	19	14	9	17	13	10	20	15	9	19	14	10	20	15
50 to 60 Feet	12	22	17	12	21	16	12	24	18	11	21	16	11	21	16
60 to 70 Feet	11	16	14	13	18	16	12	17	14	9	14	12	10	16	13
70 to 80 Feet	10	10	10	12	13	13	11	10	11	7	8	8	9	10	9
80 to 90 Feet	7	5	6	10	7	8	7	5	6	5	4	4	6	4	5
90 to 100 Feet	5	2	4	7	4	5	5	2	4	3	2	3	4	2	3
above 100 Feet	33	7	20	25	5	15	30	6	18	40	9	24	38	8	23
Mean height Feet	95	60	78	86	61	73	91	59	75	103	59	81	101	61	81

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			0			3			2
% occur 2+ EL dcts			1			0			0			3			0
AVG station N			383			380			385			*			384
AVG station -N/Kft			18			17			17			*			21
AVG sfc wind Kts	14	13	13	17	16	16	14	14	14	10	10	10	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION C[illegible] IONS SUMMARY

Specified location: 8 58 N 79 36 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78806 8 58 N 79 36 W
Radiosonde station height: 217 Feet
Surface obs source: MSO 5 00 N 85 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	1	1	1	0	1	1	0	0	0	0	0
1 GHz	30	12	21	44	20	32	28	12	20	21	6	13	28	9	19
3 GHz	35	15	25	51	25	38	33	15	24	25	8	16	33	12	23
6 GHz	57	38	48	69	48	59	54	39	47	48	32	40	57	35	46
10 GHz	84	76	80	85	74	79	82	75	79	83	78	80	85	77	81
20 GHz	92	89	90	92	86	89	91	88	90	93	91	92	93	90	92

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	4	5	7	5	6	9	4	7	6	2	4	4	4	4
AVG thickness Kft			.14			.16			.12			.10			.17
AVG trap freq GHz			2.0			1.5			1.5			2.7			2.4
AVG lyr grd -N/Kft			142			145			127			159			13[illegible]

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	30	30	30	51	51	51	24	25	25	17	16	17	26	26	26
AVG top ht Kft			8.6			8.1			8.9			7.5			10
AVG thickness Kft			.29			.35			.28			.26			.28
AVG trap freq GHz			.65			.44			.77			.76			.65
AVG lyr grd -N/Kft			61			65			57			58			64
AVG lyr base Kft			8.4			7.8			8.7			7.3			10

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	3	3	4	4	4	3	2	3	3	2	2	3	3	3
10 to 20 Feet	5	9	7	5	10	8	7	11	9	5	7	6	4	7	6
20 to 30 Feet	9	13	11	7	12	10	10	13	11	11	13	12	8	14	11
30 to 40 Feet	13	18	16	8	13	11	14	17	15	17	22	19	13	21	17
40 to 50 Feet	15	20	17	8	14	11	16	21	18	19	24	22	16	21	18
50 to 60 Feet	12	14	13	8	12	10	13	15	14	13	16	14	12	14	13
60 to 70 Feet	7	6	6	6	7	7	6	6	6	7	5	6	8	6	7
70 to 80 Feet	4	3	4	5	4	4	3	3	3	3	3	3	5	3	4
80 to 90 Feet	2	2	2	4	3	3	2	1	2	2	1	1	2	1	2
90 to 100 Feet	2	1	1	2	1	2	1	1	1	1	1	1	2	1	1
above 100 Feet	29	10	19	42	18	30	25	11	18	19	5	12	27	8	17
Mean height Feet	83	55	69	104	66	85	78	55	67	69	48	58	82	51	67

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL+SB dcts			2			3			2			1			1
% occur 2+ EL dcts			8			16			7			2			7
AVG station N			378			369			381			383			380
AVG station -N/Kft			17			17			17			18			18
AVG sfc wind kts	7.4	7.9	8.2	7.7	6.8	7.2	7.5	7.1	7.3	8.9	8.8	8.8	9.4	9.0	9.[illegible]

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 85 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78806 8 58 N 79 36 W
Radiosonde station height: 217 Feet
Surface obs source: MS9 5 00 N 85 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	1	1	1	0	1	1	0	0	0	0	0
1 GHz	30	12	21	44	20	32	28	12	20	21	6	13	28	9	19
3 GHz	35	15	25	51	25	38	33	15	24	25	8	16	33	12	23
6 GHz	57	38	48	69	48	59	54	39	47	48	32	40	57	35	46
10 GHz	84	76	80	85	74	79	82	75	79	83	78	80	85	77	81
20 GHz	92	89	90	92	86	89	91	88	90	93	91	92	93	90	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	4	5	7	5	6	9	4	7	6	2	4	4	4	4
AVG thickness Kft			.14			.16			.12			.10			.17
AVG trap freq GHz			2.0			1.5			1.5			2.7			2.4
AVG lyr grd -N/Kft			142			145			127			159			137

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	30	30	30	51	51	51	24	25	25	17	16	17	26	26	26
AVG top ht Kft			8.6			8.1			8.9			7.5			10
AVG thickness Kft			.29			.35			.28			.26			.28
AVG trap freq GHz			.65			.44			.77			.76			.65
AVG lyr grd -N/Kft			61			65			57			58			64
AVG lyr base Kft			8.4			7.8			8.7			7.3			10

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	3	3	4	4	4	3	2	3	3	2	2	3	3	3
10 to 20 Feet	5	9	7	5	10	8	7	11	9	5	7	6	4	7	6
20 to 30 Feet	9	13	11	7	12	10	10	13	11	11	13	12	8	14	11
30 to 40 Feet	13	18	16	8	13	11	14	17	15	17	22	19	13	21	17
40 to 50 Feet	15	20	17	8	14	11	16	21	18	19	24	22	16	21	18
50 to 60 Feet	12	14	13	8	12	10	13	15	14	13	16	14	12	14	13
60 to 70 Feet	7	6	6	6	7	7	6	6	6	7	5	6	8	6	7
70 to 80 Feet	4	3	4	5	4	4	3	3	3	3	3	3	5	3	4
80 to 90 Feet	2	2	2	4	3	3	2	1	2	2	1	1	2	1	2
90 to 100 Feet	2	1	1	2	1	2	1	1	1	1	1	1	2	1	1
above 100 Feet	29	10	19	42	18	30	25	11	18	19	5	12	27	8	17
Mean height Feet	83	55	69	104	66	85	78	55	67	69	48	58	82	51	67

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			3			2			1			1
% occur 2+ EL dcts			8			16			7			2			7
AVG station N			378			369			381			383			380
AVG station -N/Kft			17			17			17			18			18
AVG sfc wind kts	8.4	7.9	8.2	7.7	6.8	7.2	7.5	7.1	7.3	8.9	8.8	8.8	9.4	9.0	9.2

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 95 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 84008 0 54 S 89 37 W
Radiosonde station height: 20 Feet
Surface obs source: MSID 5 00 N 95 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	*	*	*	*	*	*	1	0	1	1	0	0
1 GHz	25	6	16	*	*	*	*	*	*	19	4	12	31	8	20
3 GHz	31	9	20	*	*	*	*	*	*	23	8	15	39	10	25
6 GHz	61	40	51	*	*	*	*	*	*	55	42	48	68	39	54
10 GHz	87	82	85	*	*	*	*	*	*	87	82	84	86	82	85
20 GHz	94	92	93	*	*	*	*	*	*	94	92	93	93	92	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	0	4	*	*	*	*	*	*	5	0	3	11	0	6
AVG thickness Kft			.22			*			*			.34			.10
AVG trap freq GHz			1.3			*			*			.23			2.4
AVG lyr grd -N/Kft			316			*			*			482			149

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	0	8	*	*	*	*	*	*	11	0	6	20	0	10
AVG top ht Kft			5.4			*			*			4.5			6.3
AVG thickness Kft			.79			*			*			.66			.92
AVG trap freq GHz			.20			*			*			.31			.10
AVG lyr grd -N/Kft			67			*			*			66			68
AVG lyr base Kft			4.9			*			*			4.1			5.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	3	3	4	5	4	3	2	2	3	3	3	4	3	4
10 to 20 Feet	4	6	5	4	9	7	5	6	6	3	5	4	3	5	4
20 to 30 Feet	7	11	9	8	13	10	8	12	10	8	10	9	6	10	8
30 to 40 Feet	10	17	14	8	16	12	11	18	15	14	17	16	8	18	13
40 to 50 Feet	15	23	19	9	20	15	18	22	20	20	23	21	14	25	19
50 to 60 Feet	14	17	16	10	13	12	15	19	17	17	20	19	13	17	15
60 to 70 Feet	9	8	9	7	5	7	8	9	9	10	10	10	11	9	10
70 to 80 Feet	6	4	5	6	3	5	6	5	5	6	4	5	6	4	5
80 to 90 Feet	4	2	3	5	2	4	2	2	2	2	2	2	5	1	3
90 to 100 Feet	2	1	1	3	1	2	1	1	1	1	1	1	3	1	2
above 100 Feet	25	7	16	35	11	23	22	5	14	16	4	10	28	8	18
Mean height Feet	81	52	66	95	54	74	76	49	63	68	49	58	85	55	70

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			0			0			2
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			358			*			*			359			357
AVG station -N/Kft			15			*			*			14			15
AVG sfc wind Kts	10	10	10	10	8.5	9.2	8.8	8.5	8.7	11	11	11	11	10	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 105 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 76723 18 43 N 110 57 W
Radiosonde station height: 125 Feet
Surface obs source: MS11 5 00 N 105 00 W

PERCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	12	9	9	14	0	7	9	0	5	11	0	6	13	0	6
1 GHz	62	7	35	72	9	40	54	6	30	56	8	32	64	7	35
3 GHz	76	11	43	85	12	48	69	11	40	72	12	42	78	9	43
6 GHz	89	43	66	94	44	69	87	49	68	87	45	66	90	35	63
10 GHz	97	79	88	93	76	87	96	84	90	96	83	89	97	74	86
20 GHz	98	89	94	99	88	93	98	93	96	98	90	94	98	86	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	80	0	40	86	0	43	75	0	38	76	0	38	82	0	41
AVG thickness Kft			.22			.24			.21			.17			.24
AVG trap freq GHz			.74			.58			1.1			.68			.62
AVG lyr grd -N/Kft			150			163			131			177			128

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	0	20	49	0	25	30	0	15	39	0	20	45	0	23
AVG top ht Kft			3.9			3.7			3.5			4.2			4.3
AVG thickness Kft			.54			.43			.51			.55			.66
AVG trap freq GHz			.57			.37			1.4			.29			.18
AVG lyr grd -N/Kft			63			61			71			57			64
AVG lyr base Kft			3.6			3.4			3.2			3.7			3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	4	4	3	4	3	3	2	3	4	4	4	4	6	5
10 to 20 Feet	3	7	5	2	8	5	3	5	4	2	6	4	5	8	7
20 to 30 Feet	6	10	8	6	11	9	6	9	7	7	8	7	6	11	9
30 to 40 Feet	10	15	12	7	14	10	9	15	12	12	14	13	11	18	15
40 to 50 Feet	12	21	17	11	19	15	12	21	17	14	23	18	13	21	17
50 to 60 Feet	12	17	14	10	15	12	14	19	16	13	18	16	12	15	13
60 to 70 Feet	9	11	10	8	11	10	11	13	12	11	10	11	7	8	8
70 to 80 Feet	7	5	6	6	6	6	7	6	6	7	5	6	8	4	6
80 to 90 Feet	4	2	3	3	2	3	4	3	4	5	3	4	4	1	2
90 to 100 Feet	3	1	2	4	1	3	3	1	2	3	2	2	3	1	2
above 100 Feet	29	7	18	40	9	24	28	6	17	21	8	14	28	7	17
Mean height Feet	88	53	70	102	55	78	86	55	70	76	53	65	85	50	68

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			30			43			15			26			37
% occur 2+ EL dcts			5			2			3			6			7
AVG station N			366			356			361			381			365
AVG station -N/Kft			20			19			20			21			18
AVG sfc wind Kts	11	10	11	10	10	10	10	10	10	12	11	12	11	10	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 115 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 76723 18 43 N 110 57 W
Radiosonde station height: 125 Feet
Surface obs source: MS12 5 00 N 115 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	12	0	6	14	0	7	9	0	5	11	0	6	13	0	6
1 GHz	63	7	35	72	7	39	56	8	32	60	6	33	64	6	35
3 GHz	78	10	44	84	12	48	73	12	43	75	10	43	79	8	43
6 GHz	91	45	68	93	39	66	89	49	69	91	50	70	91	41	66
10 GHz	97	83	90	98	77	87	98	85	91	97	86	92	97	82	90
20 GHz	99	93	96	99	91	95	99	92	96	99	94	97	99	94	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	80	0	40	86	0	43	75	0	38	76	0	38	82	0	41
AVG thickness Kft			.22			.24			.21			.17			.24
AVG trap freq GHz			.74			.58			1.1			.68			.62
AVG lyr grd -N/Kft			150			163			131			177			128

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	0	20	49	0	25	30	0	15	39	0	20	45	0	23
AVG top ht Kft			3.9			3.7			3.5			4.2			4.3
AVG thickness Kft			.54			.43			.51			.55			.66
AVG trap freq GHz			.57			.37			1.4			.29			.18
AVG lyr grd -N/Kft			63			61			71			57			64
AVG lyr base kft			3.6			3.4			3.2			3.7			3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	1	2	3	2	2	2	3	3	3	4	2	3
10 to 20 Feet	2	5	3	3	7	5	1	6	3	2	3	2	2	4	3
20 to 30 Feet	5	10	8	5	14	9	4	8	6	5	8	7	5	11	8
30 to 40 Feet	9	17	13	7	19	13	10	14	12	7	15	11	11	19	15
40 to 50 Feet	12	21	16	12	19	16	11	22	16	12	21	17	13	22	17
50 to 60 Feet	11	18	15	10	14	12	10	18	14	14	22	18	11	19	15
60 to 70 Feet	10	10	10	7	9	8	11	12	12	11	11	11	10	9	10
70 to 80 Feet	7	6	6	7	4	5	7	7	7	8	7	8	7	5	6
80 to 90 Feet	6	2	4	5	3	4	8	3	6	6	3	4	5	1	3
90 to 100 Feet	4	1	2	2	2	2	4	1	2	5	1	3	4	0	2
above 100 Feet	31	7	19	39	7	23	31	8	20	27	6	17	28	6	17
Mear height Feet	92	54	73	100	51	76	94	57	75	86	56	71	87	52	70

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			30			43			15			26			37
% occur 2+ EL dcts			5			2			3			6			7
AVG station N			366			356			361			381			355
AVG station -N/Kft			20			19			20			21			18
AVG sfc wind Kts	11	11	11	10	10	10	10	10	10	13	12	12	12	11	1

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 125 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 76723 18 43 N 110 57 W
Radiosonde station height: 125 Feet
Surface obs source: MS13 5 00 N 125 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	12	0	6	14	0	7	9	0	5	11	0	6	13	0	6
1 GHz	65	7	36	70	6	38	60	9	34	66	7	37	64	4	34
3 GHz	79	11	45	84	11	47	74	13	43	80	13	46	78	8	43
6 GHz	92	48	70	94	42	68	89	48	68	93	57	75	92	46	69
10 GHz	98	85	92	98	84	91	97	84	90	98	88	93	98	86	92
20 GHz	99	94	97	99	93	96	99	93	96	100	96	99	99	95	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	80	0	40	86	0	43	75	0	38	76	0	38	82	0	41
AVG thickness Kft			.22			.24			.21			.17			.24
AVG trap freq GHz			.74			.58			1.1			.68			.62
AVG lyr grd -M/Kft			150			163			131			177			128

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	0	20	49	0	25	30	0	15	39	0	20	45	0	23
AVG top ht Kft			3.9			3.7			3.5			4.2			4.3
AVG thickness Kft			.54			.43			.51			.55			.66
AVG trap freq GHz			.57			.37			1.4			.29			.18
AVG lyr grd -M/Kft			63			61			71			57			64
AVG lyr base Kft			3.6			3.4			3.2			3.7			3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	4	2	3	3	3	3	2	2	2	3	2	2
10 to 20 Feet	2	3	2	2	4	3	1	4	3	1	2	2	2	3	3
20 to 30 Feet	4	9	7	4	10	7	4	10	7	4	7	5	5	9	7
30 to 40 Feet	8	15	11	8	19	13	8	15	12	6	10	8	9	17	13
40 to 50 Feet	10	22	16	10	23	17	10	21	15	9	22	15	12	23	18
50 to 60 Feet	11	18	15	12	16	14	11	18	14	9	20	14	14	20	17
60 to 70 Feet	10	11	11	10	10	10	8	11	9	11	13	12	10	10	10
70 to 80 Feet	9	7	8	7	5	6	8	6	7	10	11	11	9	7	8
80 to 90 Feet	6	3	4	5	3	4	6	3	5	6	4	5	5	2	4
90 to 100 Feet	3	1	2	3	1	2	4	1	2	4	2	3	2	1	2
above 100 Feet	35	7	21	35	6	21	37	9	23	39	7	23	28	4	16
Mean height Feet	96	56	76	96	54	75	99	57	78	102	59	81	86	52	69

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			30			43			15			26			37
% occur 2+ EL dcts			5			2			3			6			7
AVG station N			366			356			361			381			369
AVG station -M/Kft			20			19			20			21			18
AVG sfc wind Kts	12	12	12	12	11	12	12	11	11	13	12	12	12	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 135 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91925 9 49 S 139 01 W
Radiosonde station height: 167 Feet
Surface obs source: MS14 5 00 N 135 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	2	0	1	2	0	1	2	0	1	2	0	1
1 GHz	35	5	20	31	5	18	33	3	18	42	8	25	34	4	19
3 GHz	46	9	27	42	9	25	42	7	25	53	13	33	46	8	27
6 GHz	75	52	63	74	53	64	71	46	59	78	53	69	76	49	62
10 GHz	91	88	89	91	87	89	89	85	87	92	91	92	92	88	90
20 GHz	96	95	96	96	95	96	95	94	94	96	96	96	97	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	0	8	18	0	9	16	0	8	17	0	9	13	0	7
AVG thickness Kft			.17			.13			.14			.22			.20
AVG trap freq GHz			1.5			1.9			1.5			1.3			1.1
AVG lyr grd -N/Kft			120			109			114			137			122

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	29	0	14	22	0	11	26	0	13	43	0	22	23	0	12
AVG top ht Kft			7.2			7.0			6.7			7.1			7.9
AVG thickness Kft			.45			.43			.50			.47			.40
AVG trap freq GHz			.45			.56			.29			.34			.62
AVG lyr grd -N/Kft			58			57			58			59			57
AVG lyr base Kft			6.8			6.7			6.3			6.8			7.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	1	2	3	1	2	3	2	2	3	1	2	3	1	2
10 to 20 Feet	2	3	3	2	3	3	3	5	4	2	3	2	1	3	2
20 to 30 Feet	6	7	7	6	8	7	7	8	7	5	5	5	6	8	7
30 to 40 Feet	8	15	12	7	16	11	9	16	13	7	14	11	8	16	12
40 to 50 Feet	11	21	16	13	18	16	11	24	17	9	19	14	10	22	16
50 to 60 Feet	12	22	17	15	24	19	13	22	17	10	21	16	12	21	16
60 to 70 Feet	11	13	12	12	14	13	11	10	11	10	15	12	10	13	11
70 to 80 Feet	9	7	8	9	7	8	8	6	7	8	9	8	10	8	9
80 to 90 Feet	6	3	5	6	3	4	5	3	4	7	4	5	7	2	5
90 to 100 Feet	3	1	2	4	1	2	2	1	2	4	1	2	4	1	2
above 100 Feet	30	5	18	26	5	15	28	3	16	37	8	22	30	4	17
Mean height Feet	89	55	72	82	55	68	87	50	69	98	60	79	89	54	71

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			3			4			4			3
% occur 2+ EL dcts			3			2			2			4			3
AVG station N			370			374			373			369			365
AVG station -N/Kft			17			18			17			17			17
AVG sfc wind Kts	14	13	13	15	15	15	13	12	13	13	12	12	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY.

Specified location: 5 00 N 145 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91925 9 49 S 139 01 W
Radiosonde station height: 167 Feet
Surface obs source: MS15 5 00 N 145 00 W

PERCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	2	0	1	2	0	1	2	0	1	2	0	1
1 GHz	30	5	18	26	5	15	28	4	16	37	7	22	29	6	17
3 GHz	43	11	27	40	9	24	39	11	25	48	14	31	45	11	28
6 GHz	74	55	65	73	55	64	71	53	62	77	57	67	76	56	66
10 GHz	92	88	90	91	88	90	90	90	90	93	86	90	94	88	91
20 GHz	97	96	96	96	96	96	97	97	97	97	95	96	97	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	0	8	18	0	9	16	0	8	17	0	9	13	0	7
AVG thickness Kft			.17			.13			.14			.22			.20
AVG trap freq GHz			1.5			1.9			1.5			1.3			1.1
AVG lyr grd -N/Kft			120			109			114			137			122

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	29	0	14	22	0	11	26	0	13	43	0	22	23	0	12
AVG top ht Kft			7.2			7.0			6.7			7.1			7.8
AVG thickness Kft			.45			.43			.50			.47			.40
AVG trap freq GHz			.45			.56			.29			.34			.62
AVG lyr grd -N/Kft			58			57			58			59			57
AVG lyr base Kft			6.8			6.7			6.3			6.8			7.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURPENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	3	1	2	2	1	1	2	1	1	2	2	2
10 to 20 Feet	2	3	2	2	2	2	3	2	2	2	4	3	1	2	2
20 to 30 Feet	5	8	6	6	8	7	7	6	7	4	9	7	3	7	5
30 to 40 Feet	8	12	10	9	13	11	8	16	12	8	11	9	8	11	9
40 to 50 Feet	12	20	16	11	20	16	13	22	17	11	18	15	12	21	17
50 to 60 Feet	14	20	17	15	21	18	13	19	16	13	18	15	13	21	17
60 to 70 Feet	12	15	14	10	16	13	13	15	14	11	15	13	14	16	15
70 to 80 Feet	9	9	9	11	10	10	9	9	9	8	10	9	8	9	9
80 to 90 Feet	7	4	6	8	3	6	6	5	6	6	5	5	8	4	6
90 to 100 Feet	4	2	3	5	1	3	3	2	3	4	2	3	6	1	4
above 100 Feet	25	5	15	20	5	12	23	4	13	32	7	19	25	6	15
Mean height Feet	84	57	70	77	55	66	80	55	68	93	59	76	86	57	71

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			3			4			4			3
% occur 2+ EL dcts			3			2			2			4			3
AVG station N			370			374			373			369			365
AVG station -N/Kft			17			18			17			17			17
AVG sfc wind Kts	15	14	14	17	16	16	14	14	14	12	11	12	15	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 155 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91285 19 43 N 155 04 W
Radiosonde station height: 36 Feet
Surface obs source: MS16 5 00 N 155 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	5	1	3	4	0	2	4	1	2	6	1	4	5	0	2
1 GHz	37	9	23	32	7	20	32	6	19	46	15	31	39	10	24
3 GHz	52	17	34	47	14	31	47	10	28	60	24	42	53	20	37
6 GHz	80	62	71	78	60	69	76	56	66	83	65	74	83	67	75
10 GHz	95	91	93	93	89	91	93	91	92	96	89	92	96	93	95
20 GHz	98	97	97	97	96	97	97	97	97	98	95	97	99	98	98

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	33	4	18	31	3	17	29	4	17	40	5	23	30	3	17
AVG thickness Kft			.36			.31			.38			.41			.35
AVG trap freq GHz			.73			.91			.75			.60			.67
AVG lyr grd -N/Kft			75			70			91			71			68

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	43	63	53	35	55	45	47	66	57	50	73	62	40	58	49
AVG top ht Kft			7.3			7.1			7.3			7.3			7.4
AVG thickness Kft			.56			.55			.55			.61			.52
AVG trap freq GHz			.22			.22			.23			.19			.25
AVG lyr grd -N/Kft			66			68			64			65			65
AVG lyr base Kft			6.9			6.8			7.0			6.8			7.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	1	2	2	2	2	1	2	1	1	1	1	1	1
10 to 20 Feet	2	3	2	2	3	3	2	2	2	2	4	3	2	2	2
20 to 30 Feet	4	6	5	5	7	6	5	7	6	4	7	5	3	5	4
30 to 40 Feet	8	11	10	9	13	11	9	14	11	8	10	9	7	9	8
40 to 50 Feet	12	18	15	11	17	14	14	22	18	12	16	14	11	17	14
50 to 60 Feet	14	22	18	15	24	20	14	22	18	14	18	16	12	22	17
60 to 70 Feet	13	16	14	15	14	15	11	17	14	10	15	13	14	16	15
70 to 80 Feet	11	9	10	10	8	9	11	9	10	9	9	9	12	11	11
80 to 90 Feet	8	5	6	8	4	6	8	3	5	6	5	6	8	6	7
90 to 100 Feet	5	3	4	4	2	3	4	1	2	5	4	4	5	4	5
above 100 Feet	23	7	15	19	6	12	19	3	11	29	11	20	25	8	17
Mean height Feet	81	59	70	74	57	66	75	54	65	89	65	77	85	62	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SE dcts			8			4			8			13			7
% occur 2+ EL dcts			8			6			9			11			7
AVG station N			361			355			361			365			361
AVG station -N/Kft			16			15			16			16			16
AVG sfc wind Kts	14	14	14	16	16	16	15	15	15	12	11	12	14	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 165 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91700 2 45 S 171 43 W
Radiosonde station height: 10 Feet
Surface obs source: MS17 5 00 N 165 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	12	1	7	14	5	9	13	0	6	12	0	6	10	0	5
1 GHz	59	13	36	60	24	42	58	6	32	61	11	36	54	10	32
3 GHz	74	22	48	77	37	57	74	12	43	76	19	47	70	18	44
6 GHz	91	64	77	92	72	82	91	59	75	91	58	74	89	66	77
10 GHz	98	91	94	98	94	96	98	91	95	97	86	92	97	93	95
20 GHz	99	96	98	99	98	99	100	96	98	99	93	96	99	97	98

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	73	7	40	79	27	53	73	0	37	75	0	38	66	0	33
AVG thickness Kft			.26			.24			.26			.28			.25
AVG trap freq GHz			.57			.51			.51			.56			.54
AVG lyr grd -N/Kft			97			106			96			92			93

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	23	0	11	17	0	9	17	0	9	30	0	15	26	0	13
AVG top ht Kft			5.2			5.1			5.1			5.5			5.3
AVG thickness Kft			.42			.41			.36			.42			.47
AVG trap freq GHz			.59			.78			.64			.42			.53
AVG lyr grd -N/Kft			57			58			55			57			60
AVG lyr base Kft			4.9			4.8			4.8			5.2			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1
10 to 20 Feet	2	3	2	2	2	2	1	2	2	2	5	4	1	2	2
20 to 30 Feet	5	5	5	5	5	5	4	5	5	5	7	5	5	4	5
30 to 40 Feet	8	11	10	9	12	11	9	13	11	7	10	9	6	9	8
40 to 50 Feet	13	18	16	15	18	16	13	20	16	13	18	15	13	18	15
50 to 60 Feet	15	19	17	15	19	17	17	21	19	14	18	16	13	19	16
60 to 70 Feet	13	15	14	12	15	14	15	16	16	12	12	12	14	18	16
70 to 80 Feet	10	10	10	11	10	11	9	10	10	8	9	8	10	11	11
80 to 90 Feet	7	5	6	8	6	7	7	4	6	7	4	6	6	5	6
90 to 100 Feet	4	3	4	4	4	4	4	2	3	4	3	3	5	3	4
above 100 Feet	22	9	16	18	8	13	20	6	13	26	11	19	25	10	18
Mean height Feet	80	62	71	74	62	68	78	58	68	85	64	74	84	65	75

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			14			11			13			17			15
% occur 2+ EL dcts			2			1			1			3			2
AVG station N			373			374			376			375			368
AVG station -N/Kft			23			24			23			24			23
AVG sfc wind Kts	14	13	13	16	16	16	14	13	14	12	11	11	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 175 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91700 2 46 S 171 43 W
Radiosonde station height: 10 Feet
Surface obs source: MS10 5 00 N 175 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH FOR RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	12	1	7	14	5	9	13	0	6	12	0	6	10	0	5
1 GHz	52	15	39	67	25	46	60	8	34	64	13	38	59	14	37
3 GHz	76	24	50	81	39	60	74	13	44	77	21	49	73	23	48
6 GHz	90	64	77	93	75	84	90	57	74	90	58	74	89	64	6
10 GHz	97	89	93	97	93	95	97	87	92	97	85	91	96	90	93
20 GHz	98	95	96	99	97	98	98	94	96	99	92	95	98	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	73	7	40	79	27	53	73	0	37	75	0	38	66	0	33
AVG thickness kft			.26			.24			.26			.28			.25
AVG trap freq GHz			.57			.51			.51			.56			.69
AVG lyr grd -N/Kft			97			106			96			92			93

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	23	0	11	17	0	9	17	0	9	30	0	15	26	0	13
AVG top ht Kft			5.2			5.1			5.1			5.5			5.0
AVG thickness kft			.42			.41			.36			.42			.47
AVG trap freq GHz			.59			.78			.64			.42			.53
AVG lyr grd -N/Kft			57			58			55			57			60
AVG lyr base Kft			4.9			4.8			4.8			5.2			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	4	2	3	3	1	2	2	2	2	4	2	3
10 to 20 Feet	3	4	3	3	3	3	3	4	3	4	5	4	4	3	3
20 to 30 Feet	5	6	5	4	6	5	5	7	6	6	7	6	4	6	5
30 to 40 Feet	7	10	9	6	9	8	9	11	9	7	10	8	6	10	9
40 to 50 Feet	11	16	14	10	13	12	13	19	16	13	17	15	10	16	13
50 to 60 Feet	11	17	14	10	16	13	14	20	17	10	16	13	11	16	13
60 to 70 Feet	11	15	13	11	19	15	12	14	13	11	12	12	9	16	12
70 to 80 Feet	9	10	10	9	12	10	10	10	10	8	8	8	10	10	10
80 to 90 Feet	6	6	6	8	8	8	5	3	4	6	6	6	6	6	6
90 to 100 Feet	4	3	3	4	3	4	4	2	3	3	3	3	4	3	3
above 100 Feet	30	11	20	31	9	20	23	8	15	31	13	22	34	14	24
Mean height Feet	88	65	76	89	64	76	81	66	70	90	65	77	94	70	82

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur ELtSB dcts			14			11			13			17			15
% occur 2+ EL dcts			2			1			1			3			2
AVG station N			373			374			376			375			368
AVG station -N/Kft			23			24			23			24			23
AVG sfc wind kts	12	12	12	14	15	14	13	12	12	11	10	10	12	11	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 7 04 N 171 22 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91376 7 04 N 171 22 E
Radiosonde station height: 10 Feet
Surface obs source: MS19 5 00 N 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	9	2	5	9	1	5	8	2	5	9	1	5	8	2	5
1 GHz	52	17	35	52	15	33	50	16	33	52	16	34	56	20	38
3 GHz	62	24	43	63	24	44	59	23	41	62	21	42	66	29	47
6 GHz	79	58	69	79	59	69	78	57	67	79	52	66	81	64	73
10 GHz	89	81	85	88	80	84	89	82	86	89	77	83	91	86	89
20 GHz	93	90	91	93	90	91	93	91	92	92	85	89	95	94	94

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	44	8	26	45	7	26	40	9	25	46	7	27	44	9	26
AVG thickness Kft			.34			.33			.36			.33			.33
AVG trap freq GHz			.40			.40			.38			.37			.45
AVG lyr grd -N/Kft			88			85			84			97			86

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	22	25	23	31	36	34	20	19	20	14	18	16	21	25	23
AVG top ht Kft			6.6			7.0			6.2			5.8			7.5
AVG thickness Kft			.40			.49			.35			.40			.36
AVG trap freq GHz			.48			.33			.55			.48			.57
AVG lyr grd -N/Kft			59			59			59			58			59
AVG lyr base Kft			6.3			6.6			5.9			5.5			7.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	5	6	6	2	4	8	4	6	9	9	9	5	2	3
10 to 20 Feet	5	6	6	7	8	7	4	5	5	6	7	6	4	4	4
20 to 30 Feet	6	9	8	8	10	9	6	9	8	5	9	7	6	8	7
30 to 40 Feet	7	11	9	7	10	8	9	12	10	7	13	10	5	10	8
40 to 50 Feet	10	14	12	10	13	11	10	16	13	10	13	11	11	14	12
50 to 60 Feet	10	16	13	9	14	11	9	16	13	10	17	13	11	17	14
60 to 70 Feet	9	12	11	8	12	10	11	13	12	12	10	11	7	12	9
70 to 80 Feet	7	9	8	7	11	9	7	8	8	6	6	6	6	9	7
80 to 90 Feet	4	4	4	6	5	5	4	3	3	4	3	3	4	5	4
90 to 100 Feet	3	3	3	4	4	4	3	3	3	2	2	2	3	3	3
above 100 Feet	31	12	21	28	10	19	29	10	19	28	11	20	37	15	26
Mean height Feet	86	61	74	81	61	71	83	59	71	81	58	70	98	68	83

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			5			8			4			4			4
% occur 2+ EL dcts			4			8			2			2			5
AVG station N			384			381			387			384			384
AVG station -N/Kft			19			19			20			19			19
AVG sfc wind kts	11	11	11	12	12	12	12	12	12	10	9	9.4	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 1 21 N 172 55 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91610 1 21 N 172 55 E
Radiosonde station height: 7 Feet
Surface obs source: MS19 5 00 N 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	0	1	1	0	1	3	0	1	3	0	2	4	0	2
1 GHz	38	12	25	32	10	21	37	10	23	38	11	24	47	15	31
3 GHz	48	18	33	42	19	31	45	16	31	47	16	31	56	23	40
6 GHz	70	55	62	65	56	61	70	53	61	71	49	60	76	61	69
10 GHz	85	80	82	81	79	80	85	80	83	84	75	80	89	85	87
20 GHz	90	89	90	88	89	89	90	90	90	89	84	86	93	93	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	0	11	9	0	5	19	0	10	25	0	13	31	0	16
AVG thickness Kft			.33			.23			.43			.33			.32
AVG trap freq GHz			.84			.88			.81			.82			1.1
AVG lyr grd -N/Kft			83			90			79			84			100

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	22	0	11	36	0	18	12	0	6	12	0	6	29	0	15
AVG top ht Kft			4.2			3.3			4.9			4.4			4.2
AVG thickness Kft			.44			.56			.33			.47			.38
AVG trap freq GHz			1.4			1.9			3.0			.69			1.0
AVG lyr grd -N/Kft			58			68			51			58			54
AVG lyr base Kft			3.9			3.0			4.5			4.0			3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	5	6	6	2	4	8	4	6	9	9	9	5	2	3
10 to 20 Feet	5	6	6	7	8	7	4	5	5	6	7	6	4	4	4
20 to 30 Feet	6	9	8	8	10	9	6	9	8	5	9	7	6	8	7
30 to 40 Feet	7	11	9	7	10	8	9	12	10	7	13	10	6	10	8
40 to 50 Feet	10	14	12	10	13	11	10	16	13	10	13	11	11	14	12
50 to 60 Feet	10	16	13	9	14	11	9	16	12	10	17	13	11	17	14
60 to 70 Feet	9	12	11	8	12	10	11	13	12	12	10	11	7	12	9
70 to 80 Feet	7	9	8	7	11	9	7	8	8	6	6	6	6	9	7
80 to 90 Feet	4	4	4	6	5	5	4	3	3	4	3	3	4	5	4
90 to 100 Feet	3	3	3	4	4	4	3	3	3	2	2	2	3	3	3
above 100 Feet	31	12	21	28	10	19	29	10	19	28	11	20	37	15	26
Mean height Feet	86	61	74	81	61	71	83	59	71	81	58	70	98	68	83

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			0			1			1			7
% occur 2+ EL dcts			2			2			0			0			5
AVG station N			380			370			386			382			382
AVG station -N/Kft			20			18			21			21			21
AVG sfc wind Kts	11	11	11	12	12	12	12	12	12	10	9.2	9.4	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 8 43 N 167 43 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91366 8 43 N 167 43 E
Radiosonde station height: 13 Feet
Surface obs source: MS20 5 00 N 165 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	1	2	4	1	3	5	1	3	3	0	2	4	1	2
1 GHz	40	10	25	39	11	25	40	9	24	38	9	24	43	11	27
3 GHz	52	18	35	53	26	39	51	15	33	47	14	31	56	18	37
6 GHz	78	62	70	79	72	75	78	57	67	76	55	65	81	63	72
10 GHz	91	88	90	90	92	91	91	87	89	91	85	88	93	88	91
20 GHz	95	95	95	94	96	95	95	93	94	95	94	95	97	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	24	5	14	23	8	16	25	3	14	22	3	13	26	4	15
AVG thickness Kft			.38			.35			.48			.32			.36
AVG trap freq GHz			.63			.57			.46			.76			.74
AVG lyr grd -N/Kft			98			85			104			113			91

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	28	28	24	36	48	42	16	24	20	9	16	13	19	22	21
AVG top ht Kft			6.2			6.8			6.2			6.0			5.9
AVG thickness Kft			.45			.52			.45			.41			.43
AVG trap freq GHz			.42			.32			.39			.51			.47
AVG lyr grd -N/Kft			57			58			60			54			57
AVG lyr base Kft			5.9			6.4			5.9			5.7			5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	4	2	3	3	2	2	4	2	3	4	2	3	4	2	3
10 to 30 Feet	3	4	3	3	2	3	2	4	3	3	4	4	3	4	3
20 to 30 Feet	5	7	6	5	5	5	5	6	6	5	10	8	4	7	5
30 to 40 Feet	6	10	8	6	8	7	6	10	8	7	12	9	6	10	8
40 to 50 Feet	10	17	14	8	13	11	11	21	16	11	19	15	9	16	12
50 to 60 Feet	12	20	16	9	17	13	13	20	16	14	22	18	13	21	17
60 to 70 Feet	11	15	13	11	17	14	12	14	13	12	13	13	11	17	14
70 to 80 Feet	9	10	9	11	15	13	9	8	9	7	7	7	8	9	9
80 to 90 Feet	6	5	6	8	9	9	6	4	5	4	3	4	7	5	6
90 to 100 Feet	4	3	3	5	5	5	4	2	3	3	1	2	4	2	3
above 100 Feet	30	7	19	29	7	18	28	7	17	30	7	18	33	9	21
Mean height Feet	89	60	74	86	64	75	86	57	72	88	57	73	94	61	78

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			4			1			0			3
% occur 2+ EL dcts			4			9			3			1			3
AVG station N			383			377			385			385			383
AVG station -N/Kft			19			19			19			19			19
AVG sfc wind kts	11	11	11	14	14	14	12	12	12	9.4	9.1	9.2	10	11	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 6 58 N 158 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91348 6 58 N 158 13 E
Radiosonde station height: 128 Feet
Surface obs source: MS21 5 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGE*:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	5	2	4	6	2	4	5	2	4	5	2	4	*	1	3
1 GHz	52	15	34	52	16	34	51	16	33	54	16	35	52	12	32
3 GHz	64	23	44	65	27	46	63	24	43	65	23	44	64	20	42
6 GHz	85	62	74	86	68	77	84	60	72	85	59	72	86	61	73
10 GHz	95	88	92	95	90	93	95	88	92	95	87	91	96	88	92
20 GHz	98	95	96	98	95	96	98	94	96	98	95	97	98	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	47	16	31	48	17	33	46	19	33	46	16	31	46	12	29
AVG thickness Kft			.17			.16			.18			.16			.17
AVG trap freq GHz			1.2			1.2			1.2			1.2			1.3
AVG lyr grd -N/Kft			94			91			95			97			93

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	20	20	30	37	34	14	11	13	13	10	12	22	22	22
AVG top ht Kft			5.6			6.2			5.9			4.3			5.9
AVG thickness Kft			.44			.57			.37			.40			.43
AVG trap freq GHz			.41			.22			.53			.50			.39
AVG lyr grd -N/Kft			59			63			59			58			57
AVG lyr base Kft			5.2			5.8			5.6			4.0			5.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	1	2	1	2	2	1	2	1	1	1	2	1	2
10 to 20 Feet	2	5	3	2	4	3	1	5	3	2	6	4	2	5	3
20 to 30 Feet	4	7	6	4	6	5	4	7	5	4	9	7	3	8	5
30 to 40 Feet	6	11	8	6	10	8	6	12	9	7	12	10	6	10	8
40 to 50 Feet	10	19	14	9	16	12	11	21	16	9	20	14	9	19	14
50 to 60 Feet	12	21	16	10	19	15	14	22	18	11	20	15	13	23	18
60 to 70 Feet	10	14	12	11	15	13	10	13	11	10	14	12	10	13	12
70 to 80 Feet	7	8	7	8	11	9	6	6	6	6	5	6	7	8	8
80 to 90 Feet	5	4	5	6	6	6	6	4	5	4	3	4	6	4	5
90 to 100 Feet	3	2	2	4	3	4	3	2	2	3	1	2	3	2	2
above 100 Feet	39	8	24	38	9	23	37	8	23	42	9	26	39	7	23
Mean height Feet	102	59	81	100	62	81	100	58	79	106	59	82	103	57	80

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			6			11			5			3			6
% occur 2+ EL dcts			5			11			2			1			6
AVG station N			382			378			384			383			383
AVG station -N/Kft			19			18			19			19			19
AVG sfc wind Kts	10	10	10	12	12	12	10	10	10	8.9	8.?	8.6	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGAT. CONDITIONS SUMMARY

Specified location: 7 28 N 151 51 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91334 7 28 N 151 51 E
Radiosonde station height: 10 Feet
Surface obs source: MS21 5 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM.COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	5	1	3	6	1	3	4	1	3	5	1	3	6	1	4
1 GHz	51	12	32	52	11	32	47	11	29	53	13	33	53	11	32
3 GHz	81	19	40	63	21	42	57	18	37	62	19	40	64	18	41
6 GHz	83	59	71	84	65	75	81	56	69	83	57	70	86	60	73
10 GHz	95	87	91	94	89	92	94	87	91	95	86	90	96	88	92
20 GHz	98	94	96	97	94	96	97	93	95	98	94	96	98	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	32	7	19	35	5	20	25	6	16	30	7	19	39	8	24
AVG thickness Kft			.32			.32			.34			.31			.31
AVG trap freq GHz			.59			.57			.56			.59			.65
AVG lyr grd -N/Kft			72			72			72			73			71

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	22	29	26	36	46	41	18	22	20	14	19	17	21	28	25
AVG top ht Kft			6.4			6.8			6.2			5.4			7.1
AVG thickness Kft			.43			.50			.39			.47			.36
AVG trap freq GHz			.39			.29			.44			.37			.46
AVG lyr grd -N/Kft			60			62			58			59			59
AVG lyr base Kft			6.1			5.5			5.9			5.0			6.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	1	2	1	2	2	1	2	1	1	1	2	1	2
10 to 20 Feet	2	5	3	2	4	3	1	5	3	2	6	4	2	5	3
20 to 30 Feet	4	7	6	4	6	5	4	7	5	4	9	7	3	6	5
30 to 40 Feet	6	11	8	6	10	8	6	12	9	7	12	10	6	10	8
40 to 50 Feet	12	15	14	9	16	12	11	21	16	9	20	14	9	19	14
50 to 60 Feet	12	21	16	10	19	15	14	22	18	11	20	15	13	23	18
60 to 70 Feet	10	14	12	11	15	13	10	13	11	10	14	12	10	13	11
70 to 80 Feet	7	8	7	8	11	9	6	6	6	6	5	6	7	8	8
80 to 90 Feet	5	4	5	6	6	6	6	4	5	4	3	4	6	4	5
90 to 100 Feet	3	2	2	4	3	4	3	2	2	3	1	2	3	2	2
above 100 Feet	39	8	24	38	9	23	37	8	23	42	9	26	39	7	23
Mean height Feet	102	59	81	100	62	81	100	58	79	106	59	82	103	57	80

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			4			2			2			4
% occur 2+ EL dcts			6			11			4			2			7
AVG station N			385			381			386			385			386
AVG station -N/Kft			20			19			20			20			20
AVG sfc wind Kts	10	10	10	12	12	12	10	10	10	8.9	8.3	8.6	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS [illegible]

Specified location: 5 00 N 145 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91334 7 28 N 151 51 E
Radiosonde station height: 10 Feet
Surface obs source: MS22 5 00 N 145 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	5	1	3	6	1	3	4	1	3	5	1	3	6	1	4
1 GHz	52	12	32	52	11	32	46	12	29	54	13	33	55	13	34
3 GHz	63	19	41	66	22	44	57	18	37	63	18	40	67	19	43
6 GHz	85	61	73	88	69	79	81	60	70	84	54	69	87	61	74
10 GHz	95	89	92	96	93	95	94	88	91	95	84	90	96	90	93
20 GHz	98	96	97	98	98	98	97	95	96	98	94	96	98	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	32	7	19	35	5	20	25	6	16	30	7	19	39	8	24
AVG thickness Kft			.32			.32			.34			.31			.31
AVG trap freq GHz			.59			.57			.56			.59			.65
AVG lyr grd -N/Kft			72			72			72			73			71

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	22	29	26	36	46	41	18	22	20	14	19	17	21	28	25
AVG top ht Kft			6.4			6.8			6.2			5.4			7.1
AVG thickness Kft			.43			.50			.39			.47			.36
AVG trap freq GHz			.39			.29			.44			.37			.46
AVG lyr grd -N/Kft			60			62			58			55			59
AVG lyr base Kft			6.1			6.5			5.9			5.0			6.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1
10 to 20 Feet	1	4	3	1	2	1	2	4	3	2	5	3	1	4	2
20 to 30 Feet	4	7	5	3	4	4	4	7	6	4	10	7	3	7	5
30 to 40 Feet	5	11	8	5	10	7	6	11	9	6	13	10	5	11	8
40 to 50 Feet	9	18	14	7	16	12	11	19	15	10	19	14	8	19	14
50 to 60 Feet	11	20	16	10	19	14	12	22	17	12	20	16	11	21	16
60 to 70 Feet	11	15	13	11	18	15	11	15	13	10	12	11	11	15	13
70 to 80 Feet	7	8	8	9	12	10	7	7	7	5	5	5	7	9	8
80 to 90 Feet	7	4	6	9	7	8	6	3	5	5	3	4	7	4	5
90 to 100 Feet	4	2	3	5	3	4	4	1	3	2	1	2	3	1	2
above 100 Feet	40	9	24	38	9	23	36	8	22	43	9	26	42	9	25
Mean height Feet	104	61	82	101	64	82	100	60	80	109	58	84	106	61	84

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB ducts			3			4			2			2			4
% occur 2+ EL ducts			6			11			4			2			7
AVG station N			385			381			386			385			388
AVG station -N/Kft			20			19			20			20			20
AVG sfc wind Kts	11	10	11	14	13	13	11	10	11	8.7	9.2	8.4	11	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 7 19 N 134 28 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91408 7 19 N 134 28 E
Radiosonde station height: 98 Feet
Surface obs source: MS23 5 00 N 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	2	2	1	1	1	3	3	3	3	2	2	2	1	2
1 GHz	42	16	29	39	14	27	44	19	31	43	17	30	44	15	29
3 GHz	53	24	38	51	23	37	53	27	40	51	24	38	54	22	38
6 GHz	80	63	71	81	67	74	78	62	70	79	58	68	82	64	73
10 GHz	93	86	90	94	91	93	93	83	88	93	84	88	94	88	91
20 GHz	97	94	95	97	96	96	97	92	94	98	92	95	97	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	18	12	15	12	8	10	21	17	19	21	15	18	16	9	13
AVG thickness Kft			.24			.21			.26			.27			.22
AVG trap freq GHz			.93			1.1			.64			.89			1.1
AVG lyr grd -N/Kft			113			127			101			103			122

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	19	21	20	33	42	38	16	17	17	9	9	9	16	17	17
AVG top ht Kft			5.4			6.6			6.3			2.9			5.8
AVG thickness Kft			.45			.53			.43			.45			.48
AVG trap freq GHz			.44			.29			.42			.54			.51
AVG lyr grd -N/Kft			56			58			57			53			57
AVG lyr base Kft			5.0			6.2			5.9			2.6			5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
10 to 20 Feet	2	6	4	1	4	3	2	8	5	2	8	5	2	4	3
20 to 30 Feet	5	8	6	4	5	4	5	10	8	6	10	8	4	8	6
30 to 40 Feet	6	10	8	5	9	7	9	10	9	6	11	8	4	9	7
40 to 50 Feet	10	16	13	10	18	14	10	15	13	12	19	15	10	15	13
50 to 60 Feet	12	20	16	12	21	16	13	20	16	14	20	17	10	20	15
60 to 70 Feet	11	14	12	11	15	13	10	14	12	11	11	11	12	15	14
70 to 80 Feet	8	8	8	9	9	9	6	6	6	7	6	7	8	9	9
80 to 90 Feet	6	4	5	7	5	6	6	4	5	4	3	4	5	4	5
90 to 100 Feet	3	2	3	4	3	4	2	1	2	3	2	2	4	2	3
above 100 Feet	37	10	23	36	11	23	35	10	23	36	10	23	40	11	25
Mean height Feet	100	62	81	100	65	83	98	59	79	98	60	79	105	63	84

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			3			3			1			1
% occur 2+ EL dcts			4			11			3			0			3
AVG station N			385			382			387			385			386
AVG station -N/Kft			20			19			20			19			20
AVG sfc wind Kts	10	9.5	10	12	11	12	10	8.4	9.0	10	8.7	9.3	10	9.3	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 9 28 N 138 04 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91413 9 28 N 138 04 E
Radiosonde station height: 56 Feet
Surface obs source: MS23 5 00 N 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	1	3	4	1	2	4	1	3	4	1	3	4	2	3
1 GHz	46	15	30	45	14	29	45	13	29	45	15	30	49	16	33
3 GHz	56	22	39	58	23	40	55	20	37	54	21	38	59	24	42
6 GHz	81	61	71	83	66	75	79	58	68	80	56	68	84	65	75
10 GHz	94	86	90	95	91	93	93	81	87	94	83	88	95	88	91
20 GHz	98	93	95	98	96	97	97	91	94	98	92	95	97	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	26	9	17	25	6	16	25	7	16	26	10	18	28	11	20
AVG thickness Kft			.27			.25			.31			.27			.26
AVG trap freq GHz			.71			.65			.61			.78			.81
AVG lyr grd -N/Kft			101			89			105			122			86

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	25	23	24	39	38	39	24	19	22	13	9	11	23	27	25
AVG top ht Kft			5.7			6.4			6.8			3.5			6.1
AVG thickness Kft			.46			.53			.44			.46			.42
AVG trap freq GHz			.32			.24			.33			.36			.36
AVG lyr grd -N/Kft			59			61			61			56			57
AVG lyr base Kft			5.4			6.0			6.5			3.1			5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
10 to 20 Feet	2	6	4	1	4	3	2	8	5	2	8	5	2	4	3
20 to 30 Feet	5	8	6	4	5	4	5	10	8	6	10	8	4	8	6
30 to 40 Feet	6	10	8	5	9	7	8	10	9	6	11	8	4	9	7
40 to 50 Feet	10	16	13	10	18	14	10	15	13	12	18	15	10	15	13
50 to 60 Feet	12	20	16	12	21	16	13	20	16	14	20	17	10	20	15
60 to 70 Feet	11	14	12	11	15	13	10	14	12	11	11	11	12	15	14
70 to 80 Feet	8	8	8	9	9	9	6	6	6	7	6	7	9	9	8
80 to 90 Feet	6	4	5	7	5	6	6	4	5	4	3	4	5	4	5
90 to 100 Feet	3	2	3	4	3	4	2	1	2	3	2	2	4	2	3
above 100 Feet	37	10	23	36	11	23	35	10	23	36	10	23	40	11	25
Mean height Feet	100	62	81	100	65	83	98	59	79	98	60	79	105	63	84

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			6			2			2			2
% occur 2+ EL dcts			6			11			4			1			6
AVG station N			385			380			386			386			387
AVG station -N/Kft			20			19			20			20			20
AVG sfc wind Kts	10	9.5	10	12	11	12	10	8.4	9.9	10	8.7	9.3	10	9.3	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 7 30 N 122 07 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 98836 7 30 N 122 07 E
Radiosonde station height: 16 Feet
Surface obs source: MS24 5 00 N 125 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	5	0	3	2	0	1	1	0	1	6	0	3	11	0	5
1 GHz	46	12	29	41	11	26	42	13	27	52	11	32	48	12	30
3 GHz	54	18	36	50	18	34	50	17	34	62	19	40	54	19	37
6 GHz	77	54	65	77	55	66	73	50	61	82	55	68	78	55	66
10 GHz	92	83	88	92	86	89	89	81	85	93	82	88	92	84	88
20 GHz	96	92	94	97	94	95	95	92	93	97	92	94	97	92	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	0	8	10	0	5	9	0	5	30	0	15	13	0	7
AVG thickness Kft			.64			.34			.32			.42			1.5
AVG trap freq GHz			.35			.38			.58			.39			.05
AVG lyr grd -N/Kft			126			106			104			189			104

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	0	2	0	0	0	1	0	1	13	0	7	5	0	3
AVG top ht Kft			4.8			*			9.4			1.9			3.1
AVG thickness Kft			.78			*			.16			1.0			1.2
AVG trap freq GHz			1.2			*			3.6			.09			.05
AVG lyr grd -N/Kft			64			*			48			69			74
AVG lyr base Kft			4.3			*			9.2			1.2			2.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	2	2	2	2	2	2	2	1	2	1	2	2
10 to 20 Feet	2	6	4	2	5	3	3	7	5	2	6	4	2	6	4
20 to 30 Feet	5	9	7	5	7	6	6	10	8	5	10	7	5	9	7
30 to 40 Feet	7	12	9	7	12	10	8	13	10	6	10	8	6	12	9
40 to 50 Feet	10	18	14	10	19	15	10	19	15	10	17	14	10	17	14
50 to 60 Feet	11	17	14	11	17	14	11	17	14	11	18	15	11	17	14
60 to 70 Feet	10	12	11	10	13	12	8	11	10	10	12	11	9	11	10
70 to 80 Feet	6	6	6	8	8	8	5	5	5	6	7	6	6	7	6
80 to 90 Feet	5	4	4	5	4	5	4	3	4	5	4	4	5	5	5
90 to 100 Feet	3	2	3	3	2	3	2	2	2	3	2	3	3	3	3
above 100 Feet	39	12	25	36	11	24	39	13	26	39	11	25	40	12	26
Mean height Feet	102	63	82	98	63	81	103	62	82	102	62	82	104	63	83

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			381			375			384			381			382
AVG station -N/Kft			20			18			20			21			20
AVG sfc wind kts	10	9.1	10	12	11	11	8.2	7.6	7.9	10	9.0	9.5	10	9.2	9.5

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 57 N 116 03 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 96471 5 57 N 116 03 E
Radiosonde station height: 10 Feet
Surface obs source: MS25 5 00 N 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	3	3	2	1	2	4	3	3	4	4	4	4	4	4
1 GHz	42	24	33	40	17	28	49	28	39	45	24	34	36	25	30
3 GHz	53	34	43	50	26	38	57	37	47	56	34	45	47	37	42
6 GHz	78	66	72	76	62	69	80	66	73	81	68	75	75	68	72
10 GHz	92	88	90	91	88	89	92	86	89	93	88	90	92	90	91
20 GHz	96	94	95	95	94	95	96	93	94	97	94	95	97	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	24	22	23	17	9	13	25	23	24	29	24	27	26	31	29
AVG thickness Kft			.27			.31			.26			.26			.24
AVG trap freq GHz			.77			.85			.75			.65			.83
AVG lyr grd -N/Kft			90			100			80			93			88

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	5	6	11	8	10	5	5	5	7	3	5	5	5	5
AVG top ht Kft			4.2			4.9			6.2			2.8			2.9
AVG thickness Kft			.58			.48			.56			.74			.53
AVG trap freq GHz			.31			.42			.31			.22			.31
AVG lyr grd -N/Kft			62			56			57			69			65
AVG lyr base Kft			3.7			4.4			5.7			2.2			2.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	3	3	3	2	1	2	2	2	2	2	2	2
10 to 20 Feet	3	6	4	3	3	3	4	8	6	3	6	5	2	4	3
20 to 30 Feet	5	8	6	5	7	6	4	8	6	5	8	6	6	7	7
30 to 40 Feet	7	11	9	8	11	9	7	10	8	6	10	8	9	13	11
40 to 50 Feet	11	16	13	10	16	13	9	15	12	11	14	12	12	17	15
50 to 60 Feet	12	17	15	12	17	14	12	16	14	11	18	15	14	18	16
60 to 70 Feet	10	13	11	10	12	11	10	12	11	11	14	12	11	13	12
70 to 80 Feet	7	8	8	7	10	8	5	6	6	8	9	9	8	9	8
80 to 90 Feet	6	5	5	6	5	6	4	3	4	6	5	6	6	5	6
90 to 100 Feet	3	3	3	3	3	3	3	2	3	4	2	3	3	3	3
above 100 Feet	33	13	22	34	13	23	40	18	29	33	12	22	25	10	17
Mean height Feet	94	65	79	93	65	79	103	70	87	95	64	80	83	61	72

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			0			1			1
% occur 2+ EL dcts			0			:			0			0			0
AVG station N			385			382			387			384			385
AVG station -N/Kft			19			19			19			19			19
AVG sfc wind Kts	12	11	12	14	14	14	8.8	8.0	8.4	12	11	11	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 6 10 N 102 16 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 48615 6 10 N 102 16 E
Radiosonde station height: 16 Feet
Surface obs source: NS26 5 00 N 105 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	0	1	1	0	1	4	0	2	4	0	2	2	0	1
1 GHz	38	14	26	33	14	23	49	20	34	41	14	28	29	9	19
3 GHz	47	21	34	41	20	31	58	26	42	52	21	37	37	15	26
6 GHz	74	58	66	68	56	62	80	62	71	80	64	72	68	51	59
10 GHz	90	85	88	88	84	86	92	85	89	94	88	91	89	83	86
20 GHz	95	93	94	93	93	93	97	94	95	97	95	96	94	92	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	19	0	10	10	0	5	30	0	15	25	0	13	12	0	6
AVG thickness Kft			.35			.53			.25			.24			.37
AVG trap freq GHz			.84			1.1			.84			.77			.64
AVG lyr grd -N/Kft			124			112			118			104			121

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	0	11	38	0	19	17	0	9	17	0	9	12	0	6
AVG top ht Kft			3.2			5.8			3.0			1.1			3.0
AVG thickness Kft			.41			.48			.36			.42			.37
AVG trap freq GHz			.63			.44			.84			.57			.66
AVG lyr grd -N/Kft			54			59			51			53			54
AVG lyr base Kft			2.9			5.4			2.7			.77			2.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	4	3	4	2	1	1	1	1	1	3	2	3
10 to 20 Feet	3	5	4	4	4	4	3	5	4	3	4	4	3	5	4
20 to 30 Feet	6	8	7	6	8	7	6	9	7	4	7	6	6	9	8
30 to 40 Feet	8	11	9	9	12	11	7	9	8	6	8	7	10	14	12
40 to 50 Feet	11	16	14	12	17	14	9	14	12	11	16	13	13	18	16
50 to 60 Feet	13	17	15	12	17	14	11	15	13	14	18	16	14	17	16
60 to 70 Feet	11	13	12	10	11	11	9	12	11	12	15	13	12	12	12
70 to 80 Feet	7	8	8	7	8	7	6	8	7	9	9	9	7	7	7
80 to 90 Feet	5	4	4	4	4	4	4	4	4	5	5	5	5	4	4
90 to 100 Feet	3	2	3	3	3	3	3	2	3	4	3	3	3	2	2
above 100 Feet	31	14	22	29	14	21	39	20	29	32	14	23	23	9	16
Mean height Feet	90	67	78	85	65	75	102	74	88	93	68	81	80	59	69

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			3			4			1			0
% occur 2+ EL dcts			2			5			2			1			1
AVG station N			383			380			386			383			384
AVG station -N/Kft			19			18			20			20			18
AVG sfc wind Kts	11	11	11	13	12	12	8.4	8.2	8.3	11	10	10	12	12	12

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 3 46 N 103 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 48657 3 46 N 103 13 E
Radiosonde station height: 59 Feet
Surface obs source: MS26 5 00 N 105 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	0	0	0	1	0	1	1	0	1	1	0	0
1 GHz	33	14	24	30	14	22	42	20	31	35	14	25	25	9	17
3 GHz	42	21	31	37	20	29	51	26	39	45	21	33	34	15	24
6 GHz	71	58	65	66	56	61	76	62	69	77	64	70	66	51	59
10 GHz	89	85	87	86	84	85	90	85	88	93	88	90	88	83	85
20 GHz	95	93	94	92	93	92	96	94	95	97	95	96	94	92	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	0	4	1	0	1	12	0	6	11	0	6	8	0	4
AVG thickness Kft			.25			.23			.28			.25			.24
AVG trap freq GHz			1.2			.61			1.2			1.0			1.8
AVG lyr grd -N/Kft			138			118			140			102			192

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	0	6	33	0	17	4	0	2	4	0	2	7	0	4
AVG top ht Kft			5.8			7.5			4.1			7.3			4.2
AVG thickness Kft			.41			.42			.31			.40			.51
AVG trap freq GHz			.86			.39			1.7			1.1			.29
AVG lyr grd -N/Kft			62			66			52			71			59
AVG lyr base Kft			5.5			7.2			3.9			7.1			3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	4	3	4	2	1	1	1	1	1	3	2	3
10 to 20 Feet	3	5	4	4	4	4	3	5	4	3	4	4	3	5	4
20 to 30 Feet	6	8	7	6	8	7	6	9	7	4	7	6	6	9	8
30 to 40 Feet	8	11	9	9	12	11	7	9	8	6	8	7	10	14	12
40 to 50 Feet	11	16	14	12	17	14	9	14	12	11	16	13	13	18	16
50 to 60 Feet	13	17	15	12	17	14	11	15	13	14	18	16	14	17	15
60 to 70 Feet	11	13	12	10	11	11	9	12	11	12	15	13	12	12	12
70 to 80 Feet	7	8	8	7	8	7	6	8	7	9	9	9	7	7	7
80 to 90 Feet	5	4	4	4	4	4	4	4	4	5	5	5	5	4	4
90 to 100 Feet	3	2	3	3	3	3	3	2	3	4	3	3	3	2	2
above 100 Feet	31	14	22	29	14	21	39	20	29	32	14	23	23	9	16
Mean height Feet	90	67	78	85	65	75	102	74	88	92	68	81	80	59	69

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			1			0			0			1
% occur 2+ EL dcts			3			11			0			0			3
AVG station N			371			368			375			374			368
AVG station -N/Kft			18			17			19			19			18
AVG sfc wind Kts	11	11	11	13	12	12	8.4	8.2	8.3	11	10	10	12	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 18 N 100 16 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 48601 5 18 N 100 16 E
Radiosonde station height: 10 Feet
Surface obs source: MS26 5 00 N 105 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	7	6	6	5	6	5	8	7	7	7	6	6	7	7	7
1 GHz	49	35	42	44	33	38	58	41	50	50	33	41	43	33	38
3 GHz	60	47	54	54	44	49	70	53	62	62	45	54	55	45	50
6 GHz	81	74	78	76	71	73	86	77	82	85	76	81	78	70	74
10 GHz	93	91	92	91	90	90	95	92	93	95	92	94	93	90	91
20 GHz	97	96	96	95	95	95	98	97	97	98	97	97	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	46	43	45	36	39	38	56	47	52	48	40	44	45	45	45
AVG thickness Kft			.26			.28			.25			.24			.26
AVG trap freq GHz			.73			.72			.72			.79			.69
AVG lyr grd -N/Kft			81			82			78			81			83

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	10	9	10	20	16	18	8	12	10	8	5	7	5	3	4
AVG top ht kft			4.3			6.1			2.7			2.2			6.9
AVG thickness Kft			.46			.49			.48			.49			.37
AVG trap freq GHz			.47			.34			.47			.29			.77
AVG lyr grd -N/Kft			58			59			56			59			59
AVG lyr base Kft			3.9			5.7			2.3			1.9			5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUPRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	4	3	4	2	1	1	1	1	1	3	2	3
10 to 20 Feet	3	5	4	4	4	4	3	5	4	3	4	4	3	5	4
20 to 30 Feet	6	8	7	6	8	7	6	9	7	4	7	6	6	9	8
30 to 40 Feet	8	11	9	9	12	11	7	9	8	6	8	7	10	11	11
40 to 50 Feet	11	16	14	12	17	14	9	14	12	11	16	13	13	18	16
50 to 60 Feet	13	17	15	12	17	14	11	15	13	14	18	16	14	17	16
60 to 70 Feet	11	13	12	10	11	11	9	12	11	12	15	13	12	12	12
70 to 80 Feet	7	8	8	7	8	7	6	8	7	9	9	9	7	7	7
80 to 90 Feet	5	4	4	4	4	4	4	4	4	5	5	5	5	4	4
90 to 100 Feet	3	2	3	3	3	3	3	2	3	4	3	3	3	2	2
above 100 Feet	31	14	22	29	14	21	39	20	29	32	14	23	23	9	16
Mean height Feet	90	67	78	85	65	75	102	74	88	93	68	81	80	59	69

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			5			3			3			2
% occur 2+ EL dcts			1			2			1			0			0
AVG station N			382			376			387			383			382
AVG station -N/Kft			19			18			20			20			19
AVG sfc wind Kts	11	11	11	13	12	12	8.4	8.2	8.3	11	10	10	12	12	12

IREPS REV 2.1 -ISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 1 22 N 103 55 E (+) INDICATES INSUFFICIENT DATA
Radiosonde source : 48694 1 22 N 103 55 E
Radiosonde station height: 59 Feet
Surface obs source: MS26 5 00 N 105 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	1	0	0	4	0	2	2	0	1	1	0	1
1 GHz	36	14	25	32	14	23	48	20	34	37	14	25	26	9	18
3 GHz	45	21	33	40	20	30	57	26	41	47	21	34	35	15	25
6 GHz	73	58	65	67	56	61	79	62	70	78	64	71	67	51	59
10 GHz	90	85	87	87	84	86	91	85	88	93	88	90	89	83	86
20 GHz	95	93	94	93	93	93	96	94	95	97	95	96	94	92	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	0	7	7	0	4	22	0	11	17	0	9	13	0	7
AVG thickness Kft			.34			.24			.68			.22			.23
AVG trap freq GHz			1.3			1.0			.50			1.2			2.5
AVG lyr grd -N/Kft			184			127			105			280			224

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	0	1	7	0	4	1	0	1	1	0	1	0	0	0
AVG top ht Kft			7.5			5.3			13			3.8			*
AVG thickness Kft			.26			.45			.13			.20			*
AVG trap freq GHz			2.1			.29			3.1			3.0			*
AVG lyr grd -N/Kft			57			65			57			48			*
AVG lyr base Kft			7.3			5.0			13			3.6			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	4	3	4	2	1	1	1	1	1	3	2	3
10 to 20 Feet	3	5	4	4	4	4	3	5	4	3	4	4	3	5	4
20 to 30 Feet	6	8	7	6	8	7	6	9	7	4	7	6	6	9	8
30 to 40 Feet	8	11	9	9	12	11	7	9	8	6	8	7	10	14	12
40 to 50 Feet	11	16	14	12	17	14	9	14	12	11	16	13	13	18	16
50 to 60 Feet	13	17	15	12	17	14	11	15	13	14	18	16	14	17	16
60 to 70 Feet	11	13	12	10	11	11	9	12	11	12	15	13	12	12	12
70 to 80 Feet	7	8	8	7	8	7	6	8	7	9	9	9	7	7	7
80 to 90 Feet	5	4	4	4	4	4	4	4	4	5	5	5	5	4	4
90 to 100 Feet	3	2	3	3	3	3	3	2	3	4	3	3	3	2	2
above 100 Feet	31	14	22	29	14	21	39	20	29	32	14	23	23	9	16
Mean Height Feet	90	67	78	85	65	75	102	74	88	93	68	81	80	59	69

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur ELEV dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
M-O station N			384			381			386			386			383
AVG station -N/Kft			21			21			22			22			21
AVG sfc wind Kts	11	11	11	13	12	12	8.4	8.2	8.7	11	10	10	12	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAR

Specified location: 7 12 N 100 36 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 48568 7 12 N 100 36 E
Radiosonde station height: 13 Feet
Surface obs source: MS26 5 00 N 105 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM 10M RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	2	2	1	1	1	2	1	1	1	1	1
1 GHz	34	18	26	32	20	26	42	24	33	36	17	27	25	12	19
3 GHz	43	26	34	40	28	34	51	32	41	46	26	36	34	18	26
6 GHz	72	61	66	68	61	64	76	65	71	77	66	72	66	53	59
10 GHz	90	86	88	87	86	87	90	86	88	93	89	91	88	83	86
20 GHz	95	94	94	93	93	93	96	94	95	97	95	96	94	92	93

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	9	9	7	13	10	12	11	12	12	7	10	5	4	5
AVG thickness Kft			.28			.36			.25			.23			.27
AVG trap freq GHz			.76			.66			1.1			.72			.58
AVG lyr grd -N/Kft			144			133			167			153			122

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	10	6	8	24	12	18	7	5	6	3	2	3	6	5	6
AVG top ht Kft			5.3			5.0			3.7			7.0			5.7
AVG thickness Kft			.45			.57			.32			.53			.50
AVG trap freq GHz			.56			.34			.72			.37			.60
AVG lyr grd -N/Kft			59			57			56			65			58
AVG lyr base Kft			5.0			4.6			3.5			6.6			5.4

E-WEOPATION DUCT HISTOGRAM IN PERCENT OCCUPPENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	4	3	4	2	1	1	1	1	1	3	2	3
10 to 20 Feet	3	5	4	4	4	4	3	5	4	3	4	4	3	5	4
20 to 30 Feet	6	8	7	6	8	7	6	9	7	4	7	6	6	9	8
30 to 40 Feet	8	11	9	9	12	11	7	9	8	6	8	7	10	14	12
40 to 50 Feet	11	16	14	12	17	14	9	14	12	11	16	13	13	18	16
50 to 60 Feet	13	17	15	12	17	14	11	15	13	14	18	16	14	17	16
60 to 70 Feet	11	13	12	10	11	11	9	12	11	12	15	13	12	12	12
70 to 80 Feet	7	8	8	7	8	7	6	8	7	9	9	9	7	7	7
80 to 90 Feet	5	4	4	4	4	4	4	4	4	5	5	5	5	4	4
90 to 100 Feet	3	2	3	3	3	3	3	2	3	4	3	3	3	2	3
above 100 Feet	31	14	22	29	14	21	39	20	29	32	14	23	23	9	16
Mean height Feet	90	67	78	85	65	75	102	74	88	90	68	81	86	59	69

GENERAL METEOPOLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			2			1			0			0
% occur 2+ EL dcts			1			2			1			0			1
AVG station N			381			376			384			386			382
AVG station -N/Kft			19			19			19			19			19
AVG sfc wind kts	11	11	11	13	12	12	8.4	8.2	8.3	11	10	10	12	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 95 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 48601 5 18 N 100 16 E
Radiosonde station height: 10 Feet
Surface obs source: MS27 5 00 N 95 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	7	6	6	5	6	5	8	7	7	7	6	6	7	7	7
1 GHz	51	35	43	53	34	44	51	37	44	45	32	39	53	36	44
_ GHz	62	46	54	63	45	54	64	49	57	59	44	51	63	46	55
6 GHz	82	72	77	82	72	77	83	74	78	81	73	77	81	70	76
10 GHz	94	90	92	93	90	92	94	90	92	94	92	93	94	89	92
20 GHz	97	96	97	97	96	96	98	96	97	97	96	97	98	95	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	46	43	45	36	39	38	56	47	52	48	40	44	45	45	45
AVG thickness Kft			.26			.28			.25			.24			.26
AVG trap freq GHz			.73			.72			.72			.79			.69
AVG lyr grd -N/Kft			81			82			78			81			83

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	10	9	10	20	16	18	8	12	10	3	5	7	5	3	4
AVG top ht Kft			4.3			6.1			2.7			2.2			6.0
AVG thickness Kft			.46			.49			.48			.49			.37
AVG trap freq GHz			.47			.34			.47			.29			.77
AVG lyr grd -N/Kft			58			59			56			59			59
AVG lyr base Kft			3.9			5.7			2.3			1.9			5.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	1	1	1	2	1	2	1	1	1	2	1	1	1	1	1
10 to 20 Feet	3	6	5	3	6	4	4	7	5	3	5	4	2	7	4
20 to 30 Feet	6	9	8	5	9	7	7	10	8	6	7	6	6	10	8
30 to 40 Feet	8	11	10	7	10	8	9	10	10	9	11	10	7	13	10
40 to 50 Feet	12	17	14	9	17	13	13	15	14	12	16	14	14	18	16
50 to 60 Feet	13	18	15	11	18	14	13	18	16	14	19	17	12	17	15
60 to 70 Feet	10	12	11	9	11	10	10	11	11	11	13	12	9	11	10
70 to 80 Fee	7	7	7	6	7	7	7	7	7	8	7	7	5	6	6
80 to 90 Feet	5	4	4	4	4	4	5	4	4	6	4	5	3	3	3
90 to 100 Fee	3	2	3	3	2	2	3	2	3	4	3	3	3	1	2
above 100 Feet	33	13	23	41	15	28	28	13	21	25	13	19	36	13	24
Mean height Feet	93	65	79	104	67	86	87	66	76	84	66	75	98	62	80

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB ducts			3			5			3			3			2
% occur 2+ EL ducts			1			2			1			0			0
AVG station N			382			376			387			383			382
AVG station -N/Kft			19			18			20			20			19
AVG sfc m rd Kts	9.3	8.6	9.0	8.6	7.8	8.2	9.1	8.2	8.6	11	10	11	8.7	8.2	8.5

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 85 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 43466 6 54 N 79 52 E
Radiosonde station height: 20 Feet
Surface obs source: MS28 5 00 N 85 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	3	0	1	3	0	2	2	0	1	2	0	1
1 GHz	44	12	28	54	11	32	39	11	25	34	10	22	48	16	32
3 GHz	56	21	38	64	19	42	53	20	36	48	21	34	59	22	40
6 GHz	82	63	72	84	61	73	82	66	74	80	67	74	81	59	70
10 GHz	94	88	91	95	87	91	93	88	91	93	91	92	94	86	90
20 GHz	97	94	96	97	94	96	97	94	95	96	96	96	97	94	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	0	10	21	0	11	27	0	14	13	0	7	21	0	11
AVG thickness Kft			.42			.23			.19			1.0			.29
AVG trap freq GHz			1.2			.95			1.1			.84			1.7
AVG lyr grd -N/Kft			512			181			999			128			543

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	0	4	14	0	7	4	0	2	9	0	5	4	0	2
AVG top ht Kft			6.0			6.8			5.3			3.4			8.5
AVG thickness Kft			.56			.71			.25			.67			.63
AVG trap freq GHz			.89			.39			1.4			1.5			.22
AVG lyr grd -N/Kft			107			93			107			168			62
AVG lyr base Kft			5.7			6.5			5.2			3.2			8.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	1	1	1	2	1	1	3	2	3	2	1	1
10 to 20 Feet	2	4	3	2	5	4	3	5	4	2	2	2	2	5	3
20 to 30 Feet	4	6	5	4	8	6	4	6	5	3	5	4	3	7	5
30 to 40 Feet	5	9	7	4	9	7	5	8	7	5	9	7	7	11	9
40 to 50 Feet	9	16	12	8	17	12	9	15	12	9	14	12	9	16	13
50 to 60 Feet	11	18	14	8	18	13	13	19	16	12	20	16	10	17	13
60 to 70 Feet	10	15	13	8	14	11	13	17	15	13	16	14	8	12	10
70 to 80 Feet	9	10	9	7	10	9	10	11	10	11	11	11	7	8	7
80 to 90 Feet	7	6	6	6	5	6	7	6	7	8	7	8	6	4	5
90 to 100 Feet	4	3	4	4	3	3	5	3	4	5	4	5	3	2	3
above 100 Feet	37	12	25	48	11	30	30	11	20	29	10	19	43	16	29
Mean height Feet	100	66	83	114	64	89	91	65	78	88	64	76	107	68	88

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SD dcts			2			2			0			2			4
% occur 2+ EL dcts			2			4			0			2			4
AVG station N			387			384			390			387			389
AVG station -N/Kft			20			19			20			20			20
AVG sfc wind Kts	12	12	12	10	9.3	9.4	13	12	12	16	15	15	11	10	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 9 55 N 76 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 43353 9 55 N 76 13 E
Radiosonde station height: 10 Feet
Surface obs source: MS29 5 00 N 75 09 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	2	2	2	2	2	1	3	2	1	1	1	1	4	2
1 GHz	45	20	32	54	21	38	42	20	31	37	14	25	46	24	35
3 GHz	55	28	41	64	29	46	54	30	42	47	20	34	55	32	44
6 GHz	80	62	71	85	61	73	81	67	74	75	56	66	78	63	70
10 GHz	92	86	89	94	84	89	93	89	91	89	85	87	92	86	89
20 GHz	96	93	94	98	93	95	97	94	96	93	92	92	96	93	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	13	10	11	11	11	4	16	10	5	6	6	6	20	13
AVG thickness kft			.35			.40			.26			.38			.36
AVG trap freq GHz			.49			.36			.57			.58			.47
AVG lvr grd -N/Kft			161			157			161			170			156

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	10	8	9	14	12	6	10	8	4	9	7	6	5	6
AVG top ht Kft			7.1			4.4			11			7.0			5.7
AVG thickness Kft			.60			.41			.50			.79			.70
AVG trap freq GHz			.34			.63			.30			.20			.23
AVG lvr grd -N/Kft			67			57			66			75			69
AVG lvr base Kft			6.7			4.1						6.6			5.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	1	1	1	3	2	2	5	4	5	2	2	2
10 to 20 Feet	2	6	4	2	7	4	1	4	3	3	4	3	2	7	4
20 to 30 Feet	4	8	6	4	10	7	4	7	5	4	8	6	4	8	6
30 to 40 Feet	5	11	8	4	10	7	5	11	8	6	13	10	6	11	9
40 to 50 Feet	8	16	12	6	16	11	8	14	11	9	17	13	9	17	13
50 to 60 Feet	9	17	13	9	17	13	10	18	14	9	17	13	9	17	13
60 to 70 Feet	10	12	11	9	11	10	10	15	12	11	12	12	8	12	10
70 to 80 Feet	7	8	8	6	7	7	8	10	9	8	8	8	6	7	7
80 to 90 Feet	6	5	5	5	4	5	7	6	6	6	4	5	5	4	5
90 to 100 Feet	4	2	3	4	2	3	5	3	4	4	2	3	3	2	3
above 100 Feet	42	12	27	50	14	32	41	11	26	35	10	23	44	12	28
Mean height Feet	107	63	85	118	65	92	106	65	85	95	60	78	108	62	85

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL>SB dcts			0			1			0			0			1
% occur 2+ EL dcts			0			1			0			0			0
AVG station H			381			375			387			384			379
AVG station -N/Kft			19			19			19			18			19
AVG sfc wind Kts	11	10	10	8.7	7.8	8.2	11	11	11	13	12	12	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 6 54 N 79 52 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 43466 6 54 N 79 52 E
Radiosonde station height: 20 Feet
Surface obs source: MS29 5 00 N 75 00 E

PERCENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	3	0	1	3	0	2	2	0	1	2	0	1
1 GHz	48	12	30	55	14	35	49	11	30	40	10	25	48	12	30
3 GHz	59	19	39	66	21	43	61	20	40	50	16	33	58	18	38
6 GHz	82	56	69	86	56	71	84	61	73	76	54	65	80	54	67
10 GHz	93	84	89	95	82	89	94	87	90	90	84	87	93	83	88
20 GHz	96	92	94	98	92	95	97	93	95	94	92	93	96	91	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	0	10	21	0	11	27	0	14	13	0	7	21	0	11
AVG thickness Kft			.42			.23			.19			1.0			.29
AVG trap freq GHz			1.2			.95			1.1			.84			1.7
AVG 1 ' grd -N/Kft			512			181			999			128			543

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&r	day	nit	d&n	day	nit	d&n
Percent occurrence	8	0	4	14	0	7	4	0	2	9	0	5	4	0	2
AVG top ht Kft			6.0			6.8			5.3			3.4			8.5
AVG thickness kft			.56			.71			.25			.67			.60
AVG trap freq GHz			.89			.39			1.4			1.5			.22
AVG lyr grd -N/Kft			107			93			107			168			62
AVG lyr base Kft			5.7			6.5			5.2			3.2			8.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	1	1	1	3	2	2	5	4	5	2	2	2
10 to 20 Feet	2	6	4	2	7	4	1	4	3	3	4	3	2	7	4
20 to 30 Feet	4	8	6	4	10	7	4	7	5	4	8	6	4	8	6
30 to 40 Feet	5	11	8	4	10	7	5	11	8	6	13	10	6	11	9
40 to 50 Feet	8	16	12	6	16	11	8	14	11	9	17	13	9	17	13
50 to 60 Feet	9	17	13	9	17	13	10	18	14	9	17	13	9	17	13
60 to 70 Feet	10	12	11	9	11	10	10	15	12	11	12	12	8	12	10
70 to 80 Feet	7	8	8	6	7	7	8	10	9	8	8	8	6	7	7
80 to 90 Feet	6	5	5	5	4	5	7	6	6	6	4	5	5	4	5
90 to 100 Feet	4	2	3	4	2	3	5	3	4	4	2	3	3	2	3
above 100 Feet	42	12	27	58	14	32	41	11	25	35	10	23	44	12	28
Mean height Feet	107	63	85	118	65	92	106	65	85	95	60	78	108	62	85

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			2			0			2			4
% occur 2+ EL dcts			2			4			0			2			0
AVG station N			387			384			390			387			388
AVG station -N/Kft			20			19			20			20			20
AVG sfc wind Kts	11	10	10	8.7	7.8	8.2	11	11	11	13	12	12	10	10	10

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 8 28 N 76 57 E (+) INDICATES INSUFFICIENT DATA
Radiosonde source : 43371 8 28 N 76 57 E
Radiosonde station height: 210 Feet
Surface obs source: NS29 5 00 N 75 00 E

PERCENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR E&M COV RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
100 MHz	0	1	0	0	1	1	0	0	0	0	0	0	1	1	1
1 GHz	43	14	28	50	18	34	42	12	27	35	11	23	45	14	30
3 GHz	53	21	37	60	25	43	53	21	37	45	17	31	54	21	38
6 GHz	79	58	68	83	59	71	81	62	71	74	55	64	77	56	67
10 GHz	92	85	88	94	84	89	93	87	90	89	84	86	92	84	88
20 GHz	96	92	94	98	93	95	97	93	95	93	92	92	96	91	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	3	5	4	2	9	6	4	3	4	0	3	2	6	5	6
AVG thickness Kft			.47			.16			.84			.49			.40
AVG trap freq GHz			1.7			1.6			1.2			2.8			1.1
AVG lyr grd -N/Kft			235			292			182			282			183

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	6	5	5	8	5	7	6	5	6	5	4	5	4	5	5
AVG top ht Kft			7.1			5.4			7.8			9.3			5.9
AVG thickness Kft			.53			.52			.30			.40			.88
AVG trap freq GHz			.57			.38			.68			1.1			.10
AVG lyr grd -N/Kft			65			58			56			68			80
AVG lyr base Kft			6.8			5.0			7.6			9.1			5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUPPENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
0 to 10 Feet	3	2	3	1	1	1	3	2	2	5	4	5	2	2	2
10 to 20 Feet	2	6	4	2	7	4	1	4	3	3	4	3	2	7	4
20 to 30 Feet	4	8	6	4	10	7	4	7	5	4	8	6	4	8	6
30 to 40 Feet	5	11	8	4	10	7	5	11	8	6	13	10	6	11	9
40 to 50 Feet	8	16	12	6	16	11	8	14	11	9	17	13	9	17	13
50 to 60 Feet	9	17	13	9	17	13	10	18	14	9	17	13	9	17	13
60 to 70 Feet	10	12	11	9	11	10	10	15	12	11	12	12	8	12	10
70 to 80 Feet	7	8	8	6	7	7	8	10	9	8	8	8	6	7	7
80 to 90 Feet	6	5	5	5	4	5	7	6	6	6	4	5	5	4	5
90 to 100 Feet	4	2	3	4	2	3	5	3	4	4	2	3	3	2	3
above 100 Feet	42	12	27	50	14	32	41	11	26	35	10	23	44	12	28
Mean height Feet	107	63	85	118	65	92	106	65	85	96	60	78	109	62	86

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
% occur EL&SB ducts			0			0			0			0			0
% occur 2+ EL ducts			0			0			1			0			0
AVG station N			376			368			384			378			374
AVG station -N/Kft			19			19			20			19			19
AVG sfc wind Kts	11	10	10	9.7	7.8	8.2	11	11	11	13	12	12	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 65 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 41356 0 40 S 73 10 E
Radiosonde station height: 7 Feet
Surface obs source: MS30 5 00 N 65 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	5	0	2	5	0	3	5	0	3	5	0	2	4	0	2
1 GHz	54	14	34	59	14	36	50	9	30	56	16	36	52	15	33
3 GHz	67	22	45	72	21	47	63	20	42	70	28	49	61	21	41
6 GHz	88	65	77	90	65	77	90	71	80	90	70	80	83	57	70
10 GHz	96	88	92	97	90	93	97	88	92	97	90	94	94	85	90
20 GHz	98	95	97	99	96	97	99	96	97	98	96	97	98	93	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	33	0	16	37	0	19	32	0	16	37	0	19	24	0	12
AVG thickness Kft			.27			.25			.29			.25			.31
AVG trap freq GHz			.69			.81			.52			.85			.60
AVG lyr grd -N/Kft			111			121			103			103			118

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	10	8	9	11	33	22	8	0	4	7	0	4	13	0	7
AVG top ht Kft			5.8			3.0			8.1			8.1			4.1
AVG thickness Kft			.38			.57			.30			.29			.38
AVG trap freq GHz			.86			.29			1.2			1.4			.51
AVG lyr grd -N/Kft			58			60			56			56			58
AVG lyr base Kft			5.5			2.5			7.9			7.9			3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1
10 to 20 Feet	1	4	3	1	4	2	1	3	2	1	3	2	1	6	4
20 to 30 Feet	3	7	5	2	7	4	3	8	5	2	5	4	4	8	6
30 to 40 Feet	4	9	6	2	9	6	4	7	5	3	8	5	6	11	9
40 to 50 Feet	7	14	11	7	16	11	7	10	9	7	13	10	8	17	13
50 to 60 Feet	10	18	14	10	19	14	11	21	16	9	16	12	10	17	13
60 to 70 Feet	10	15	13	9	16	12	13	18	16	10	16	13	10	11	10
70 to 80 Feet	8	10	9	7	9	8	11	12	12	8	10	9	7	9	8
80 to 90 Feet	7	6	7	8	5	6	9	7	8	8	7	8	5	4	5
90 to 100 Feet	4	3	4	5	3	4	4	3	4	5	5	5	3	2	2
above 100 Feet	44	14	29	48	14	31	37	9	23	45	16	31	44	15	29
Mean height Feet	109	68	89	117	69	93	103	65	84	109	72	91	108	66	87

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			2			2			1			3
% occur 2+ EL dcts			1			1			1			0			3
AVG station N			383			381			384			386			381
AVG station -N/Kft			20			19			20			21			19
AVG sfc wind Kts	11	10	10	10	8.7	9.1	11	10	10	14	12	13	9.2	8.1	8.6

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 55 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 40597 13 22 N 45 03 E
Radiosonde station height: 10 Feet
Surface obs source: MS31 5 00 N 55 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	5	4	2	2	2	8	8	8	2	6	4	2	4	3
1 GHz	46	25	35	51	15	33	55	37	46	28	26	27	49	23	36
3 GHz	58	37	48	64	27	45	68	51	60	40	38	39	59	34	46
6 GHz	81	70	75	87	67	77	87	80	84	70	68	69	80	65	72
10 GHz	91	90	91	95	92	93	94	92	93	85	87	86	91	88	90
20 GHz	95	95	95	97	96	96	97	96	96	90	93	91	95	94	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	31	26	16	13	15	43	45	44	14	39	27	11	26	19
AVG thickness Kft			.48			.40			.61			.49			.42
AVG trap freq GHz			.73			1.1			.49			.69			.61
AVG lyr grd -N/Kft			143			119			119			118			219

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	31	34	33	42	56	49	40	31	36	11	19	15	21	30	25
AVG top ht Kft			3.0			3.6			2.3			3.4			2.8
AVG thickness Kft			.62			.62			.75			.60			.52
AVG trap freq GHz			.26			.26			.14			.38			.28
AVG lyr grd -N/Kft			62			62			68			56			61
AVG lyr base Kft			2.6			3.2			1.8			2.9			2.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	4	3	3	2	2	2	2	2	2	8	6	7	3	2	2
10 to 20 Feet	3	5	4	1	3	2	2	6	4	4	5	4	3	6	4
20 to 30 Feet	4	7	5	2	5	4	5	6	5	5	9	7	4	9	6
30 to 40 Feet	6	11	8	4	10	7	5	9	7	8	12	10	5	11	8
40 to 50 Feet	7	16	12	6	18	12	6	12	9	9	17	13	8	18	13
50 to 60 Feet	10	18	14	8	19	14	9	18	13	13	19	16	9	18	13
60 to 70 Feet	9	13	11	9	14	11	11	15	13	10	13	11	8	12	10
70 to 80 Feet	8	10	9	8	11	10	9	13	11	11	9	10	6	8	7
80 to 90 Feet	7	5	6	7	6	7	7	7	7	7	4	6	6	4	5
90 to 100 Feet	5	3	4	5	4	4	6	4	5	4	2	3	4	3	3
above 100 Feet	38	8	23	47	9	28	36	9	23	22	5	13	45	9	27
Mean height Feet	99	59	79	114	63	88	98	63	81	74	52	62	109	59	84

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			2			7			3			3
% occur 2+ EL dcts			5			7			9			1			2
AVG station N			371			360			386			375			363
AVG station -N/Kft			22			19			27			20			20
AVG sfc wind Kts	15	14	14	13	13	13	14	14	14	20	20	20	11	11	11

IPEPS REV 2.1 HISTOPICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 4 01 N 9 42 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 64910 4 01 N 9 42 E
Radiosonde station height: 33 Feet
Surface obs source: MS36 5 00 N 5 00 E

PERCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	4	4	1	6	4	4	5	5	2	2	2	3	4	3
1 GHz	37	25	31	42	38	40	35	28	32	24	12	18	46	23	34
3 GHz	43	31	37	50	46	48	42	35	38	31	15	23	51	28	39
6 GHz	69	54	61	75	67	71	70	64	67	57	35	46	74	48	61
10 GHz	90	86	88	92	90	91	92	90	91	86	79	82	92	85	89
20 GHz	96	94	95	95	94	95	96	95	96	95	91	93	97	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	25	20	8	38	23	22	28	25	13	12	13	18	21	20
AVG thickness Kft			.36			.38			.36			.39			.32
AVG trap freq GHz			.47			.55			.44			.43			.48
AVG lyr grd -N/Kft			90			89			83			92			95

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	11	13	12	19	22	21	11	10	11	4	7	6	10	12	11
AVG top ht Kft			4.7			5.1			3.4			5.0			5.2
AVG thickness Kft			.50			.60			.44			.47			.48
AVG trap freq GHz			.43			.27			.59			.39			.48
AVG lyr grd -N/Kft			56			56			53			56			59
AVG lyr base Kft			4.3			4.6			3.0			4.6			4.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	3	1	2	1	2	2	3	2	2	2	1	2
10 to 20 Feet	3	6	4	2	7	4	3	6	4	4	7	6	2	5	3
20 to 30 Feet	6	10	8	4	7	5	6	7	6	10	14	12	6	13	10
30 to 40 Feet	10	17	13	6	12	9	10	11	11	14	24	19	9	20	15
40 to 50 Feet	15	24	20	12	23	17	17	24	21	18	24	21	12	26	19
50 to 60 Feet	14	17	15	13	18	15	16	23	19	15	12	14	11	15	13
60 to 70 Feet	9	7	8	9	8	8	10	9	9	10	7	8	9	5	7
70 to 80 Feet	6	4	5	6	3	4	7	7	7	5	3	4	7	3	5
80 to 90 Feet	3	2	2	6	3	4	3	1	2	3	0	2	2	2	2
90 to 100 Feet	2	1	1	2	0	1	2	1	2	2	0	1	1	1	1
above 100 Feet	29	11	20	38	18	28	23	11	17	16	4	10	39	10	24
Mean height Feet	86	58	72	102	69	86	78	61	70	66	45	55	100	55	77

GENEPAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			5			2			0			2
% occur 2+ EL dcts			1			3			1			0			1
AVG station N			383			383			384			381			383
AVG station -N/Kft			18			18			18			17			18
AVG sfc wind kts	9.2	8.5	8.9	8.2	7.5	7.8	10	8.3	8.9	11	10	11	8.1	7.8	7.9

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 6 33 N 3 21 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 65202 6 33 N 3 21 E
Radiosonde station height: 62 Feet
Surface obs source: MS36 5 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	3	2	3	1	0	1	1	0	1	3	0	2
1 GHz	35	12	24	46	24	35	27	11	19	21	4	13	46	10	28
3 GHz	42	15	29	56	30	43	34	13	24	28	5	17	51	12	32
5 GHz	69	42	56	79	56	68	65	51	58	56	27	42	75	35	55
10 GHz	90	83	86	93	87	90	90	86	88	86	76	81	92	81	87
20 GHz	96	92	94	96	93	94	96	93	95	95	90	92	97	94	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	19	4	11	28	17	23	10	0	5	14	0	7	22	0	11
AVG thickness Kft			.29			.18			.25			.44			.31
AVG trap freq GHz			1.1			1.2			.84			1.5			.80
AVG lyr grd -N/Kft			132			117			106			213			91

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	9	14	32	17	25	16	0	8	13	9	11	18	8	13
AVG top ht Kft			5.2			5.2			4.9			5.9			4.8
AVG thickness Kft			.40			.43			.34			.36			.45
AVG trap freq GHz			.62			.60			.90			.53			.47
AVG lyr grd -N/Kft			58			56			54			64			56
AVG lyr base Kft			4.9			4.8			4.6			5.7			4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPPENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	3	1	2	1	2	2	3	2	2	2	1	2
10 to 20 Feet	3	6	4	2	7	4	3	6	4	4	7	6	2	5	3
20 to 30 Feet	6	10	8	4	7	5	6	7	6	10	14	12	6	13	10
30 to 40 Feet	10	17	13	6	12	9	10	11	11	14	24	19	9	20	15
40 to 50 Feet	15	24	20	12	23	17	17	24	21	18	24	21	12	26	19
50 to 60 Feet	14	17	15	13	18	15	16	23	19	15	12	14	11	15	13
60 to 70 Feet	9	7	8	9	8	8	10	9	9	10	7	8	9	5	7
70 to 80 Feet	6	4	5	6	3	4	7	7	7	5	3	4	7	3	5
80 to 90 Feet	3	2	2	6	3	4	3	1	2	3	0	2	2	2	2
90 to 100 Feet	2	1	1	2	0	1	2	1	2	2	0	1	1	1	1
above 100 Feet	29	11	20	38	18	28	23	11	17	16	4	10	39	10	24
Mean height Feet	86	58	72	102	69	86	78	61	70	66	45	55	100	55	77

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			5			1			2			3
% occur 2+ EL dcts			2			3			1			1			3
AVG station N			380			376			382			379			382
AVG station -N/Kft			17			16			16			17			18
AVG sfc wind kts	9.2	8.5	8.9	8.2	7.5	7.8	10	8.3	8.9	11	10	11	8.1	7.8	7.9

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 N 5 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 65202 6 33 N 3 21 E
Radiosonde station height: 62 Feet
Surface obs source: MS36 5 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&
100 MHz	2	0	1	3	2	3	1	0	1	1	0	1	3	0	2
1 GHz	35	12	24	46	24	35	27	11	19	21	4	13	46	10	29
3 GHz	42	15	29	56	30	43	34	13	24	28	5	17	51	12	32
6 GHz	69	42	56	79	56	68	65	51	58	56	27	42	75	35	55
10 GHz	90	83	86	93	87	90	90	86	88	86	76	81	92	81	87
20 GHz	96	92	94	96	93	94	96	93	95	95	90	92	97	94	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	19	4	11	28	17	23	10	0	5	14	0	7	22	0	11
AVG thickness Kft			.29			.18			.25			.44			.31
AVG trap freq GHz			1.1			1.2			.84			1.5			.80
AVG lyr grd -N/Kft			132			117			106			213			91

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&
Percent occurrence	20	9	14	32	17	25	16	0	8	13	9	11	18	8	13
AVG top ht Kft			5.2			5.2			4.9			5.9			4.8
AVG thickness Kft			.40			.43			.34			.36			.45
AVG trap freq GHz			.62			.60			.90			.53			.47
AVG lyr grd -N/Kft			58			56			54			64			56
AVG lyr base Kft			4.9			4.8			4.6			5.7			4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&
0 to 10 Feet	2	2	2	3	1	2	1	2	2	3	2	2	2	1	2
10 to 20 Feet	3	6	4	2	7	4	3	6	4	4	7	6	2	5	3
20 to 30 Feet	6	10	8	4	7	5	6	7	6	10	14	12	6	13	10
30 to 40 Feet	10	17	13	6	12	9	10	11	11	14	24	19	9	20	15
40 to 50 Feet	15	24	20	12	23	17	17	24	21	18	24	21	12	26	19
50 to 60 Feet	14	17	15	13	18	15	16	23	19	15	12	14	11	15	13
60 to 70 Feet	9	7	8	9	8	8	10	9	9	10	7	8	9	5	7
70 to 80 Feet	6	4	5	6	3	4	7	7	7	5	3	4	7	3	5
80 to 90 Feet	3	2	2	6	3	4	3	1	2	3	0	2	2	2	2
90 to 100 Feet	2	1	1	2	0	1	2	1	2	2	0	1	1	1	1
above 100 Feet	29	11	20	38	18	28	23	11	17	16	4	10	39	10	24
Mean height Feet	86	58	72	102	69	86	78	61	70	66	45	55	100	55	77

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			5			1			2			3
% occur 2+ EL dcts			2			3			1			1			2
AVG station N			380			376			382			379			382
AVG station -N/Kft			17			16			16			17			18
AVG sfc wind Kts	8.2	8.5	8.9	8.2	7.5	7.8	10	8.3	8.9	11	10	11	8.1	7.6	7.9

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 14 43 N 17 30 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 61641 14 43 N 17 30 W
Radiosonde station height: 89 Feet
Surface obs source: MS38 15 60 N 15 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	17	22	20	22	29	25	22	25	24	4	4	4	21	30	26
1 GHz	66	65	65	77	83	80	68	68	68	40	24	32	79	83	81
3 GHz	72	69	70	82	88	85	72	72	72	48	30	39	84	88	86
6 GHz	85	79	82	89	91	90	83	78	81	73	54	63	94	93	93
10 GHz	94	92	93	95	96	95	94	90	92	91	85	88	98	97	97
20 GHz	97	96	97	97	98	97	96	95	96	96	94	95	99	99	99

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	51	65	58	65	85	75	59	68	64	23	24	24	58	83	71
AVG thickness Kft			.66			.58			.75			.60			.68
AVG trap freq GHz			.23			.17			.15			.44			.15
AVG lyr grd -N/Kft			106			104			105			111			105

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	27	21	24	21	14	18	39	24	32	26	28	27	23	18	21
AVG top ht Kft			1.8			1.1			1.7			2.7			1.5
AVG thickness Kft			.77			.60			.84			.87			.76
AVG trap freq GHz			.18			.19			.16			.12			.26
AVG lyr grd -N/Kft			61			66			59			60			60
AVG lyr base Kft			1.2			.71			1.1			2.0			1.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUPRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	4	5	4	5	6	6	6	7	6	3	3	3	2	2	2
10 to 20 Feet	3	7	5	3	8	6	4	8	6	3	6	4	1	6	3
20 to 30 Feet	5	12	9	5	14	10	7	16	11	6	11	8	3	8	5
30 to 40 Feet	8	16	12	8	16	12	10	20	15	9	17	13	4	10	7
40 to 50 Feet	11	17	14	9	14	12	14	17	16	14	23	19	6	15	11
50 to 60 Feet	11	13	12	8	9	9	13	12	12	14	17	16	8	13	10
60 to 70 Feet	8	7	8	7	6	7	8	5	7	10	8	9	8	10	9
70 to 80 Feet	6	4	5	6	4	5	6	3	4	6	4	5	7	7	7
80 to 90 Feet	4	3	3	4	2	3	3	1	2	4	2	3	5	5	5
90 to 100 Feet	3	2	2	3	2	3	2	1	2	3	1	2	4	3	4
above 100 Feet	37	14	25	40	18	29	27	9	18	28	9	19	52	19	36
Mean height Feet	97	60	79	101	64	82	81	49	65	87	54	71	119	73	96

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SD dcts			5			5			5			3			5
% occur 2+ EL dcts			3			1			4			4			2
AVG station N			365			348			361			382			367
AVG station -N/Kft			25			27			28			19			28
AVG sfc wind Kts	12	11	11	13	12	13	13	12	12	10	9.4	10	12	10	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 16 43 N 22 57 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 8594 16 43 N 22 57 W
Radiosonde station height: 177 Feet
Surface obs source: MS39 15 00 N 25 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	3	3	2	6	4	4	3	3	3	2	2	5	0	2
1 GHz	37	15	26	30	26	28	38	14	26	39	12	25	42	7	24
3 GHz	49	21	35	44	36	40	48	19	33	47	16	32	56	13	35
6 GHz	80	57	68	80	68	74	80	54	67	74	46	60	86	60	73
10 GHz	94	89	91	93	93	93	93	89	91	92	83	87	96	90	93
20 GHz	97	96	96	96	97	97	96	96	96	96	94	95	98	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	18	14	16	11	33	22	20	14	17	18	9	14	23	0	12
AVG thickness Kft			.62			.63			.65			.46			.75
AVG trap freq GHz			.43			.44			.43			.49			.39
AVG lyr grd -N/Kft			90			106			85			86			94

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	43	22	32	47	0	24	47	22	35	36	65	51	41	0	21
AVG top ht Kft			2.8			2.7			2.6			3.3			2.4
AVG thickness Kft			.92			.73			1.0			1.1			.90
AVG trap freq GHz			.11			.16			.09			.09			.11
AVG lyr grd -N/Kft			67			61			73			69			64
AVG lyr base Kft			2.2			2.1			2.1			2.7			1.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	3	2	2	3	2	2	3	2	2	2	1	2
10 to 20 Feet	2	3	3	2	3	2	2	3	2	2	5	4	1	3	2
20 to 30 Feet	4	8	6	3	7	5	3	8	6	5	11	8	3	6	4
30 to 40 Feet	6	15	11	6	15	10	5	18	11	8	18	13	5	11	8
40 to 50 Feet	10	22	16	9	21	15	12	24	18	13	22	17	8	19	14
50 to 60 Feet	13	21	17	13	19	16	14	22	18	13	19	16	12	22	17
60 to 70 Feet	13	13	13	14	15	15	13	11	12	11	9	10	13	15	14
70 to 80 Feet	10	7	9	12	10	11	10	6	8	7	5	6	12	10	11
80 to 90 Feet	7	3	5	8	3	6	6	2	4	4	2	3	9	4	6
90 to 100 Feet	4	2	3	6	2	4	3	1	2	3	1	2	5	3	4
above 100 Feet	28	5	17	25	4	14	28	5	16	30	6	18	30	7	19
Mean height Feet	88	55	72	84	55	70	87	52	70	90	52	71	92	59	

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SR dcts			7			4			10			8			7
% occur 2+ EL dcts			3			2			3			4			2
AVG station N			348			338			344			360			340
AVG station -N/Kft			22			21			24			19			22
AVG sfc wind Kts	13	12	13	15	14	15	14	13	14	11	10	10	13	12	12

IREPS REV 2.1 -HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 N 35 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 8594 16 43 N 22 57 W
Radiosonde station height: 177 Feet
Surface obs source: MS40 15 00 N 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	3	3	2	6	4	4	3	3	3	2	2	5	0	2
1 GHz	42	14	28	35	26	31	44	14	29	44	12	28	44	5	25
3 GHz	56	23	40	52	40	46	59	21	40	55	18	37	59	14	37
6 GHz	86	69	77	86	79	82	87	69	78	82	58	70	88	69	79
10 GHz	95	93	94	96	96	96	96	94	95	94	90	92	96	93	95
20 GHz	97	97	97	98	98	98	98	98	98	96	96	96	98	97	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	18	14	16	11	33	22	20	14	17	18	9	14	23	8	12
AVG thickness kft			.62			.63			.65			.46			.75
AVG trap freq GHz			.43			.44			.43			.48			.39
AVG lyr grd -N kft			90			106			85			86			84

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	43	22	32	47	0	24	47	22	35	36	65	51	41	0	21
AVG top ht kft			2.8			2.7			2.6			3.3			2.4
AVG thickness kft			.92			.73			1.0			1.1			.98
AVG trap freq GHz			.11			.16			.09			.09			.11
AVG lyr grd -N/kft			67			61			73			69			64
AVG lyr base kft			2.2			2.1			2.1			2.7			1.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	1	1	2	1	1	3	1	2	2	1	1
10 to 20 Feet	1	2	2	1	2	2	1	1	1	2	3	3	1	2	2
20 to 30 Feet	3	4	3	2	3	2	2	5	3	3	6	5	2	4	3
30 to 40 Feet	4	10	7	4	8	6	4	9	6	6	13	9	4	8	6
40 to 50 Feet	7	19	13	8	17	12	7	19	13	8	23	15	6	16	11
50 to 60 Feet	11	22	17	11	21	16	11	25	19	11	22	16	11	23	17
60 to 70 Feet	12	18	15	13	20	17	12	19	15	10	14	12	12	20	16
70 to 80 Feet	12	11	11	13	13	13	11	11	11	10	8	9	13	13	13
80 to 90 Feet	8	5	7	10	7	9	9	3	6	6	3	5	9	6	7
90 to 100 Feet	6	2	4	7	4	5	6	2	4	4	2	3	7	2	5
above 100 Feet	33	5	19	29	4	17	35	4	20	36	6	21	33	5	19
Mean height Feet	86	59	78	92	61	76	99	59	79	99	56	78	95	60	78

GENERAL METEOROLOGY SUMMARY:

PARAMETER	EARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur ELSSE dcts			7			4			10			8			7
% occur 2+ EL dcts			3			2			3			4			2
AVG station N			348			338			344			360			350
AVG station -N kft			22			21			24			19			22
AVG sfc wind kts	15	14	14	17	15	16	15	15	15	13	13	13	14	14	14

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 N 45 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 81403 5 12 N 52 42 W
Radiosonde station height: 26 Feet
Surface obs source: NS41 15 00 N 45 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COR RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	2	2	0	3	2	*	*	*	*	*	*	6	0	3
1 GHz	42	12	27	36	18	27	*	*	*	*	*	*	49	6	27
3 GHz	57	22	40	51	30	41	*	*	*	*	*	*	63	14	39
6 GHz	86	70	78	84	76	80	*	*	*	*	*	*	87	65	76
10 GHz	95	93	94	94	95	94	*	*	*	*	*	*	95	92	93
20 GHz	97	97	97	96	98	97	*	*	*	*	*	*	97	97	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	13	13	3	22	13	0	17	9	*	*	*	38	0	19
AVG thickness Kft			.17			.18			0			*			.30
AVG tr_p freq GHz			.42			.70			0			*			.55
AVG lyr grd -N Kft			131			181			*			*			92

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	12	9	10	4	7	0	13	7	*	*	*	8	20	14
AVG top ht Kft			6.9			7.1			7.2			*			6.3
AVG thickness Kft			.49			.76			.36			*			.34
AVG trap freq GHz			.85			.11			.83			*			1.6
AVG lyr grd -N/Kft			90			88			51			*			1.3
AVG lyr base Kft			6.6			6.7			6.9			*			6.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	1	2	2	1	2	3	1	2	2	1	2	3	1	2
10 to 20 Feet	1	2	2	1	2	1	2	2	2	1	2	2	1	2	2
20 to 30 Feet	3	4	4	2	4	3	2	4	3	2	4	4	3	5	4
30 to 40 Feet	4	9	6	4	8	5	3	9	6	4	8	6	4	10	7
40 to 50 Feet	7	17	12	6	15	11	5	16	10	7	19	13	8	17	13
50 to 60 Feet	9	22	16	10	22	16	7	22	15	9	23	16	11	22	16
60 to 70 Feet	12	18	15	12	19	15	11	19	15	11	17	14	12	17	15
70 to 80 Feet	11	13	12	12	15	13	11	13	12	10	13	11	12	11	11
80 to 90 Feet	8	6	7	9	7	8	10	6	8	7	5	6	7	6	7
90 to 100 Feet	6	3	4	6	3	5	7	3	5	5	2	4	6	3	4
above 100 Feet	36	6	21	35	5	20	39	6	22	40	6	23	33	6	19
Mean Height Feet	99	61	80	97	62	79	103	62	82	103	61	82	94	60	77

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB ducts			1			0			0			3			2
% occur 2+ EL ducts			1			0			0			3			1
AVG station N			383			380			385			*			384
AVG station -N/Kft			18			17			17			*			21
A_S sfc wind kts	15	14	14	16	15	15	15	14	15	14	14	14	14	13	13

IREPS REV 2.1 -HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 13 04 N 59 28 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78954 13 04 N 59 28 W
Radiosonde station height: 154 Feet
Surface obs source: MS42 15 00 N 55 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	da	nit	d&n
100 MHz	3	1	2	3	0	2	2	1	1	4	2	3	5	2	3
1 GHz	43	12	27	41	8	25	39	10	25	46	14	30	44	15	30
3 GHz	59	24	41	57	22	40	56	21	39	63	26	44	59	26	43
6 GHz	88	74	81	87	74	81	87	73	80	89	75	82	87	72	80
10 GHz	96	94	95	96	95	95	96	94	95	97	95	96	97	94	95
20 GHz	98	98	98	98	98	98	97	98	98	99	98	99	98	97	98

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	da	nit	d&n
Percent occurrence	23	9	16	18	1	10	15	4	10	26	14	20	34	15	25
AVG thickness Kft			.29			.29			.33			.28			.25
AVG trap freq GHz			.77			.56			1.0			.72			.84
AVG lvr grd -N/Kft			91			90			107			78			86

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	da	nit	d&n
Percent occurrence	39	57	48	44	73	59	46	65	56	35	44	40	29	45	37
AVG top ht Kft			6.6			6.8			7.0			6.4			6.2
AVG thickness Kft			.44			.45			.49			.41			.44
AVG trap freq GHz			.38			.32			.29			.44			.49
AVG lvr grd -N/Kft			62			64			63			57			63
AVG lvr base Kft			6.3			6.5			6.7			6.1			6.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	da	nit	d&n
0 to 10 Feet	2	1	1	1	1	1	2	1	1	1	1	1	2	1	1
10 to 20 Feet	1	2	1	1	2	1	1	2	1	1	2	1	1	2	2
20 to 30 Feet	2	4	3	2	3	3	2	4	3	2	4	3	2	4	3
30 to 40 Feet	4	7	5	4	7	5	3	7	5	3	7	5	4	8	5
40 to 50 Feet	7	15	11	7	14	11	6	15	11	7	15	11	9	17	13
50 to 60 Feet	11	21	16	10	20	15	10	21	16	11	22	16	13	22	18
60 to 70 Feet	12	19	15	12	19	15	11	19	15	11	19	15	12	18	15
70 to 80 Feet	12	13	12	12	14	13	12	13	13	11	14	12	11	12	12
80 to 90 Feet	9	7	8	10	9	9	10	7	8	9	7	8	8	6	7
90 to 100 Feet	7	3	5	7	5	6	7	3	5	7	3	5	5	3	4
above 100 Feet	34	8	21	33	6	21	34	8	21	37	7	24	32	8	20
Mean height Feet	97	64	80	95	66	8	97	65	81	100	64	82	93	63	78

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	da	nit	d&n	day	nit	d&n
% occur ELOSS dcts			5			3			4			6			8
% occur 2+ EL dcts			14			12			19			13			12
AVG station N			372			365			371			378			375
AVG station -N/Kft			18			16			17			19			19
AVG sfc wind kts	14	13	14	15	14	15	15	14	14	14	13	14	13	12	13

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 10 42 N 61 36 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78967 10 42 N 61 36 W
Radiosonde station height: 43 Feet
Surface obs source: MS43 15 00 N 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM ICM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	6	1	3	4	0	2	5	1	3	9	0	4	7	1	4
1 GHz	47	12	29	41	10	26	44	12	28	55	11	33	46	12	29
3 GHz	61	23	42	56	22	39	59	22	40	68	22	45	61	24	42
6 GHz	87	72	80	86	73	79	85	69	77	90	73	81	88	73	81
10 GHz	96	93	94	96	93	94	95	92	93	97	93	95	97	94	95
20 GHz	98	97	97	97	97	97	97	96	96	98	97	97	98	97	98

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	30	3	16	24	1	13	23	4	14	39	1	20	33	5	19
AVG thickness Kft			.43			.37			.45			.49			.40
AVG trap freq GHz			.42			.61			.36			.32			.39
AVG lyr grd -N/Kft			75			87			69			76			70

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	25	33	29	31	42	37	29	36	30	23	32	28	24	21	23
AVG top ht Kft			7.0			6.5			6.9			7.5			6.8
AVG thickness Kft			.40			.41			.47			.31			.42
AVG trap freq GHz			.52			.49			.33			.81			.45
AVG lyr grd -N/Kft			57			54			63			56			57
AVG lyr base Kft			6.7			6.5			6.6			7.3			6.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	1	1	1	2	2	2	2	2	2	2	1	2
10 to 20 Feet	1	2	2	1	2	2	1	2	2	1	2	1	1	2	2
20 to 30 Feet	3	4	3	2	4	3	3	5	4	3	4	3	3	4	3
30 to 40 Feet	4	7	6	4	7	6	4	8	6	4	6	5	4	7	6
40 to 50 Feet	8	14	11	8	14	11	8	15	12	7	14	11	8	15	12
50 to 60 Feet	11	20	16	12	19	15	11	20	15	11	19	15	13	21	17
60 to 70 Feet	13	18	15	13	18	16	12	17	15	13	18	15	14	18	16
70 to 80 Feet	11	13	12	12	14	13	11	12	11	11	14	12	12	13	13
80 to 90 Feet	9	7	8	8	7	8	9	6	8	9	8	8	9	7	8
90 to 100 Feet	6	4	5	6	4	5	6	3	4	6	3	5	6	4	5
above 100 Feet	32	10	21	31	10	20	33	10	21	35	11	23	29	9	19
Mean height Feet	94	66	80	93	67	80	95	65	80	98	68	83	92	66	79

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			5			2			5			5
% occur 2+ EL dcts			5			7			3			5			4
AVG station N			372			363			369			380			377
AVG station -N/Kft			18			17			16			19			19
AVG sfc wind Kts	14	13	13	14	14	14	14	13	14	14	13	13	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 17 07 N 61 46 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78861 17 07 N 61 46 W
Radiosonde station height: 33 Feet
Surface obs source: MS43 15 00 N 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	33	10	21	31	10	20	33	10	22	36	11	23	30	9	20
3 GHz	48	21	34	46	21	33	48	19	34	51	22	36	45	21	33
6 GHz	83	71	77	82	73	77	81	68	75	84	72	78	83	72	*
10 GHz	94	93	94	94	93	94	93	91	92	95	93	94	95	94	95
20 GHz	97	97	97	97	97	97	96	96	96	97	97	97	98	97	98

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	0	1	1	0	1	1	0	1	2	0	1	3	0	2
AVG thickness Kft			.33			.28			.45			.26			.34
AVG trap freq GHz			.78			1.0			.81			.66			.66
AVG lyr grd -N/Kft			200			353			200			82			163

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	44	0	22	49	0	25	41	0	21	42	0	21	42	0	21
AVG top ht Kft			6.5			6.9			6.4			6.0			6.8
AVG thickness Kft			.40			.41			.38			.40			.42
AVG trap freq GHz			.43			.44			.48			.42			.37
AVG lyr grd -N/Kft			60			57			58			62			61
AVG lyr base Kft			6.2			6.6			6.1			5.7			6.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	1	1	1	2	2	2	2	2	2	2	1	1
10 to 20 Feet	1	2	2	1	2	2	1	2	2	1	2	1	1	2	2
20 to 30 Feet	3	4	3	2	4	3	3	5	4	3	4	3	3	4	3
30 to 40 Feet	4	7	6	4	7	5	4	8	6	4	6	5	4	7	6
40 to 50 Feet	8	14	11	8	14	11	8	15	12	7	14	1	8	15	12
50 to 60 Feet	11	20	16	12	19	15	11	20	15	11	19	15	13	21	17
60 to 70 Feet	13	18	15	13	19	16	12	17	15	12	18	15	14	18	16
70 to 80 Feet	11	13	12	12	14	13	11	12	11	11	14	12	12	13	13
80 to 90 Feet	9	7	8	8	7	8	9	6	8	9	8	8	9	7	8
90 to 100 Feet	6	4	5	6	4	5	6	3	4	6	3	5	6	4	5
above 100 Feet	32	10	21	31	10	20	33	10	21	35	11	23	29	9	19
Mean height Feet	84	66	80	93	67	80	95	65	80	98	68	83	92	66	79

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			1			1
% occur 2+ EL dcts			11			13			10			10			13
AVG station N			373			363			372			381			376
AVG station -N/Kft			18			16			18			19			18
Avg sfc wind kts	14	13	13	14	14	14	14	13	14	14	13	13	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 12 12 N 68 58 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78988 12 12 N 68 58 W
Radiosonde station height: 30 Feet
Surface obs source: MS43 15 00 N 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1
1 GHz	34	12	23	33	14	24	34	10	22	36	12	24	31	12	21
3 GHz	48	23	36	48	26	37	49	20	34	51	24	37	46	24	35
6 GHz	83	72	78	83	74	79	81	68	75	84	73	79	83	73	78
10 GHz	95	93	94	95	94	94	92	91	92	95	93	94	95	94	95
20 GHz	97	97	97	97	97	97	96	96	96	97	97	97	98	97	98

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	4	4	6	7	7	2	1	2	3	3	3	5	5	5
AVG thickness Kft			.36			.39			.32			.40			.31
AVG trap freq GHz			.68			.58			.66			.75			.73
AVG lyr grd -N/Kft			105			102			103			114			101

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	29	40	34	34	41	38	36	43	40	25	40	33	19	35	27
AVG top ht Kft			5.7			7.5			5.5			4.7			5.3
AVG thickness Kft			.48			.48			.49			.47			.47
AVG trap freq GHz			.32			.33			.28			.35			.33
AVG lyr grd -N/Kft			59			59			62			59			56
AVG lyr base Kft			5.4			7.1			5.2			4.4			4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	1	1	1	2	2	2	2	2	2	2	1	1
10 to 20 Feet	1	2	2	1	2	2	1	2	2	1	2	1	1	2	2
20 to 30 Feet	3	4	3	2	4	3	3	5	4	3	4	3	3	4	3
30 to 40 Feet	4	7	6	4	7	6	4	8	6	4	6	5	4	7	6
40 to 50 Feet	8	14	11	8	14	11	8	15	12	7	14	11	8	15	12
50 to 60 Feet	11	20	16	12	19	15	11	20	15	11	19	15	13	21	17
60 to 70 Feet	13	18	15	13	18	16	12	17	15	12	18	15	14	18	16
70 to 80 Feet	11	13	12	12	14	13	11	12	11	11	14	12	12	13	13
80 to 90 Feet	9	7	8	8	7	8	9	5	8	9	6	8	9	7	8
90 to 100 Feet	6	4	5	6	4	5	6	3	4	6	3	5	6	4	5
above 100 Feet	32	10	21	31	10	20	33	10	21	35	11	23	29	9	19
Mean height Feet	94	66	80	93	67	80	95	65	80	98	63	83	92	66	79

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SR dcts			1			2			0			1			1
% occur 2+ EL dcts			10			10			14			7			7
AVG station N			379			374			379			381			380
AVG station -N/Kft			19			18			18			20			19
AVG sfc wind Kts	14	13	13	14	14	11	14	13	14	14	13	13	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 18 03 N 63 07 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78866 18 03 N 63 07 W
Radiosonde station height: 13 Feet
Surface obs source: MS43 15 00 N 65 60 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
1 GHz	33	10	22	32	10	21	33	10	22	36	13	24	31	9	20
3 GHz	48	21	35	47	21	34	48	19	34	51	24	37	46	21	33
6 GHz	83	72	77	82	73	77	81	68	75	84	73	79	83	72	78
10 GHz	95	93	94	95	93	94	93	91	92	95	93	94	95	94	95
20 GHz	97	97	97	97	97	97	96	96	96	97	97	97	98	97	98

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	1	2	3	0	2	1	0	1	2	4	3	8	0	4
AVG thickness Kft			.40			.42			.52			.33			.35
AVG trap freq GHz			1.3			.87			.42			.83			3.1
AVG lyr grd -N/Kft			120			84			180			97			112

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	33	13	23	40	0	20	34	0	17	27	52	40	30	0	15
AVG top ht Kft			6.3			5.9			6.6			5.6			6.2
AVG thickness Kft			.45			.54			.41			.44			.40
AVG trap freq GHz			.44			.26			.47			.44			.60
AVG lyr grd -N/Kft			61			69			62			57			57
AVG lyr base Kft			6.0			6.4			6.3			5.3			5.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	1	1	1	2	2	2	2	2	2	2	1	1
10 to 20 Feet	1	1	2	1	2	2	1	2	2	1	2	1	1	2	2
20 to 30 Feet	3	4	3	2	4	3	3	5	4	3	4	3	3	4	3
30 to 40 Feet	4	7	6	4	7	6	4	7	6	4	6	5	4	7	6
40 to 50 Feet	8	14	11	8	14	11	8	15	12	7	14	11	8	15	12
50 to 60 Feet	11	20	16	12	19	15	11	20	15	11	19	15	13	21	17
60 to 70 Feet	13	18	15	13	18	16	12	17	15	12	18	15	14	18	16
70 to 80 Feet	11	13	12	12	14	13	11	12	11	11	14	12	12	13	13
80 to 90 Feet	9	7	8	8	7	8	9	6	8	9	8	8	9	7	8
90 to 100 Feet	6	4	5	6	4	5	6	3	4	6	3	5	6	4	5
above 100 Feet	32	10	21	31	10	20	33	10	21	35	11	23	29	9	19
ducting Feet	94	66	80	93	67	80	95	65	80	98	69	83	92	66	79

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SD data			2			2			0			1			4
% occur 2+ EL data			5			4			4			6			4
AVG station N			369			364			365			377			373
AVG station -N/Kft			18			17			19			19			19
AVG sfc wind kts	14	12	13	14	14	14	14	13	14	14	12	13	13	12	13

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 10 37 N 61 21 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78970 10 37 N 61 21 W
Radiosonde station height: 39 Feet
Surface obs source: MS43 15 00 N 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	2	1	0	1	1	1	0	0	2	2	2	1	3	2
1 GHz	35	15	25	32	15	23	35	11	23	41	17	29	32	19	26
3 GHz	50	27	38	46	28	37	50	21	35	56	29	42	47	32	40
6 GHz	83	74	79	82	75	79	82	69	75	86	75	80	83	77	80
10 GHz	95	93	94	95	94	94	94	92	93	95	93	94	95	95	95
20 GHz	97	97	97	97	97	97	96	96	96	98	97	97	98	98	98

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	11	9	3	13	8	5	3	4	14	11	13	7	18	13
AVG thickness Kft			.35			.34			.32			.36			.38
AVG trap freq GHz			1.0			1.4			1.3			.58			.64
AVG lyr grd -N Kft			104			114			101			83			117

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	47	60	54	63	69	66	53	76	65	36	50	43	37	44	41
AVG top ht Kft			7.7			8.3			7.3			6.7			8.6
AVG thickness Kft			.41			.43			.48			.42			.32
AVG trap freq GHz			.48			.38			.30			.40			.83
AVG lyr grd -N/Kft			60			61			63			62			56
AVG lyr base Kft			7.4			8.0			7.0			6.4			8.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	1	1	1	2	2	2	2	2	2	2	1	1
10 to 20 Feet	1	2	2	1	2	2	1	2	2	1	2	1	1	2	2
20 to 30 Feet	3	4	3	2	4	3	3	5	4	3	4	3	3	4	3
30 to 40 Feet	4	7	6	4	7	6	4	8	6	4	6	5	4	7	6
40 to 50 Feet	8	14	11	8	14	11	8	15	12	7	14	11	8	15	12
50 to 60 Feet	11	20	16	12	19	15	11	20	15	11	19	15	12	21	17
60 to 70 Feet	13	18	15	13	18	16	12	17	15	12	18	15	14	18	16
70 to 80 Feet	11	13	12	12	14	13	11	12	11	11	14	12	12	13	13
80 to 90 Feet	9	7	8	8	7	8	9	6	8	9	8	8	9	7	8
90 to 100 Feet	6	4	5	6	4	5	6	3	4	6	3	5	6	4	5
above 100 Feet	32	10	21	31	10	20	33	10	21	35	11	23	29	9	19
Mean height Feet	94	66	80	93	67	80	95	65	80	98	68	83	92	66	79

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			5			6			3			5			7
% occur 2+ EL dcts			16			21			21			15			8
AVG station N			379			372			378			385			382
AVG station -N/Kft			18			18			18			19			19
AVG sfc wind kts	14	13	13	14	14	14	14	13	14	14	13	13	13	12	13

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 16 16 N 61 31 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78897 16 16 N 61 31 W
Radiosonde station height: 23 Feet
Surface obs source: MS43 15 00 N 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR EEM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	0	2	2	1	1	4	0	2	3	0	2	5	0	3
1 GHz	41	11	26	37	12	24	42	11	27	43	12	28	42	11	27
3 GHz	56	22	39	52	23	38	57	20	39	58	23	41	56	23	40
6 GHz	86	72	79	84	74	79	85	69	77	87	73	80	87	73	80
10 GHz	96	93	94	95	93	94	95	91	93	96	93	94	97	94	95
20 GHz	98	97	97	97	97	97	97	96	96	98	97	97	98	97	98

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	22	3	12	16	4	10	21	2	12	20	2	11	30	3	17
AVG thickness Kft			.41			.38			.43			.44			.37
AVG trap freq GHz			.62			.86			.50			.53			.53
AVG lyr grd -N/Kft			80			113			74			73			62

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	29	39	34	38	54	46	30	40	35	18	28	23	29	38	31
AVG top ht Kft			7.0			7.0			7.2			6.7			7.2
AVG thickness Kft			.43			.51			.43			.41			.36
AVG trap freq GHz			.49			.31			.45			.55			.65
AVG lyr grd -N/Kft			57			58			57			57			55
AVG lyr base Kft			6.7			6.6			6.9			6.4			6.9

E-APOPATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	1	1	1	2	2	2	2	2	2	2	1	1
10 to 20 Feet	1	2	2	1	2	2	1	2	2	1	2	1	1	2	2
20 to 30 Feet	3	4	3	2	4	3	3	5	4	3	4	3	3	5	3
30 to 40 Feet	4	7	6	4	7	6	4	8	6	4	6	5	4	7	6
40 to 50 Feet	8	14	11	8	14	11	8	15	12	7	14	11	8	15	12
50 to 60 Feet	11	20	16	12	19	15	11	20	15	11	19	15	13	21	17
60 to 70 Feet	13	18	15	13	18	16	12	17	15	12	18	15	14	18	16
70 to 80 Feet	11	13	12	12	14	13	11	12	11	11	14	12	12	13	13
80 to 90 Feet	9	7	8	8	7	8	9	6	8	9	8	8	9	7	8
90 to 100 Feet	6	4	5	6	4	5	6	3	4	6	3	5	6	4	5
above 100 Feet	32	10	21	31	10	20	33	10	21	35	11	23	29	9	19
Mean height Feet	94	66	80	93	67	80	95	65	80	96	68	82	92	66	79

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
* occur EL&SB dcts			3			4			3			2			4
* occur 2+ EL dcts			4			6			4			1			5
AVG station N			376			368			376			382			379
AVG station -N/Kft			18			17			18			19			19
AVG sfc wind Kts	14	13	13	14	14	14	14	13	14	14	13	13	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 18 25 N 66 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78526 18 25 N 66 00 W
Radiosonde station height: 10 Feet
Surface obs source: MS43 15 00 N 65 00 W

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	1	1	2	0	1	1	0	1	1	0	0
1 GHz	35	11	23	32	12	22	37	11	24	38	12	25	31	10	21
3 GHz	50	22	36	47	23	35	52	20	36	53	23	38	46	22	34
6 GHz	83	72	78	82	74	78	83	69	76	85	73	79	83	73	78
10 GHz	95	93	94	95	93	94	94	91	93	95	93	94	95	94	95
20 GHz	97	97	97	97	97	97	96	96	96	98	97	97	98	97	98

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	3	5	4	4	4	10	2	6	9	2	6	5	3	4
AVG thickness Kft			.42			.41			.45			.48			.43
AVG trap freq GHz			.87			.87			.66			.67			1.3
AVG lyr grd -N/Kft			138			135			132			191			94

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	38	47	42	52	64	58	35	48	42	26	34	30	37	41	39
AVG top ht Kft			7.2			7.3			7.1			6.8			7.7
AVG thickness Kft			.43			.52			.42			.43			.36
AVG trap freq GHz			.40			.25			.40			.44			.51
AVG lyr grd -N/Kft			60			61			61			61			59
AVG lyr base Kft			5.9			6.9			6.8			6.5			7.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	1	1	1	2	2	2	2	2	2	2	1	1
10 to 20 Feet	1	2	2	1	2	2	1	2	2	1	2	1	1	2	2
20 to 30 Feet	3	4	3	2	4	3	3	5	4	3	4	3	3	4	3
30 to 40 Feet	4	7	6	4	7	6	4	8	6	4	6	5	4	7	6
40 to 50 Feet	8	14	11	8	14	11	8	15	12	7	14	11	8	15	12
50 to 60 Feet	11	20	16	12	19	15	11	20	15	11	19	15	13	21	17
60 to 70 Feet	13	18	15	13	18	16	12	17	15	12	18	15	14	18	16
70 to 80 Feet	11	13	12	12	14	13	11	12	11	11	14	12	12	13	13
80 to 90 Feet	9	7	8	8	7	8	9	6	8	9	8	8	9	7	8
90 to 100 Feet	6	4	5	6	4	5	6	3	4	6	3	5	6	4	5
above 100 Feet	32	10	21	31	10	20	33	10	21	35	11	23	29	9	19
Mean height Feet	94	66	80	93	67	80	95	65	80	98	68	83	92	66	79

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			2			1			1			1
% occur 2+ EL dcts			7			10			6			5			8
AVG station N			367			359			367			376			367
AVG station -N/Kft			16			15			16			17			16
AVG sfc wind Kts	14	13	13	14	14	14	14	13	14	14	13	13	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 18 28 N 69 52 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78486 18 28 N 69 52 W
Radiosonde station height: 43 Feet
Surface obs source: MS43 15 00 N 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	4	3	2	4	3	3	3	3	4	5	4	3	4	3
1 GHz	39	23	31	36	24	30	40	21	30	44	27	36	37	22	30
3 GHz	54	36	45	51	37	44	55	32	43	59	41	50	53	35	44
6 GHz	85	77	81	84	78	81	84	74	79	87	80	83	85	78	82
10 GHz	95	94	95	95	95	95	94	93	94	96	95	95	96	95	96
20 GHz	97	97	97	97	97	97	96	97	97	98	97	98	98	98	98

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	17	23	20	12	23	18	15	19	17	20	28	24	19	22	21
AVG thickness Kft			.40			.40			.42			.41			.36
AVG trap freq GHz			.51			.50			.49			.49			.58
AVG lyr grd -N/Kft			70			67			71			67			74

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	35	44	39	44	45	45	37	51	44	27	35	31	31	44	39
AVG top ht Kft			7.4			7.8			7.3			6.8			8.4
AVG thickness Kft			.42			.44			.44			.41			.41
AVG trap freq GHz			.37			.33			.35			.41			.40
AVG lyr grd -N/kft			60			61			60			57			62
AVG lyr base Kft			7.1			7.5			7.0			5.7			8.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	1	1	1	2	2	2	2	2	2	2	1	1
10 to 20 Feet	1	2	2	1	2	2	1	2	2	1	2	1	1	2	2
20 to 30 Feet	3	4	3	2	4	3	3	5	4	3	4	3	3	4	3
30 to 40 Feet	4	7	6	4	7	6	4	8	6	4	6	5	4	7	6
40 to 50 Feet	8	14	11	8	14	11	8	15	12	7	14	11	8	15	12
50 to 60 Feet	11	20	16	12	19	15	11	20	15	11	19	15	13	21	17
60 to 70 Feet	13	18	15	13	18	16	12	17	15	12	18	15	14	18	16
70 to 80 Feet	11	13	12	12	14	13	11	12	11	11	14	12	12	13	13
80 to 90 Feet	9	7	8	8	7	8	9	6	8	9	8	8	9	7	8
90 to 100 Feet	6	4	5	6	4	5	6	3	4	6	3	5	6	4	5
above 100 Feet	32	10	21	31	10	20	33	10	21	35	11	23	29	9	19
Mean height Feet	94	66	80	93	67	80	95	65	80	98	68	83	92	66	79

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			7			7			7			6			8
% occur 2+ EL dcts			8			8			10			5			8
AVG station N			378			369			378			386			377
AVG station -N/Kft			19			18			19			20			19
AVG sfc wind kts	14	13	13	14	14	14	14	13	14	14	13	13	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 19 54 N 75 09 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78367 19 54 N 75 09 W
Radiosonde station height: 75 Feet
Surface obs source: MS44 15 00 N 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	4	3	2	2	2	2	5	4	4	4	4	4	5	4
1 GHz	36	23	29	32	16	24	33	24	29	40	26	33	38	25	32
3 GHz	51	36	43	48	30	39	47	36	41	55	39	47	52	39	46
6 GHz	82	76	79	82	76	79	80	75	78	84	78	81	83	77	80
10 GHz	94	93	94	94	93	93	92	93	93	94	94	94	95	93	94
20 GHz	96	97	97	96	97	97	95	96	96	97	97	97	97	97	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	19	17	10	10	10	11	22	17	22	22	22	17	22	20
AVG thickness Kft			.41			.42			.43			.38			.41
AVG trap freq GHz			.39			.45			.34			.42			.36
AVG lyr grd -N/Kft			88			87			85			80			99

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	46	51	48	59	60	60	49	52	51	29	48	39	46	43	45
AVG top ht Kft			7.3			7.2			7.5			6.9			7.4
AVG thickness Kft			.39			.43			.39			.37			.37
AVG trap freq GHz			.40			.29			.44			.46			.41
AVG lyr grd -N/Kft			63			55			63			59			64
AVG lyr base Kft			7.0			6.9			7.3			6.6			7.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	2	2	2	3	2	3	2	2	2	2	1	1
10 to 20 Feet	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2
20 to 30 Feet	3	4	4	3	4	3	3	5	4	3	4	4	3	4	4
30 to 40 Feet	5	7	6	5	7	6	5	8	7	5	7	6	5	7	6
40 to 50 Feet	8	13	11	8	12	10	8	15	12	8	13	10	9	14	12
50 to 60 Feet	12	18	15	11	17	14	12	19	16	11	18	14	12	18	15
60 to 70 Feet	13	17	15	13	18	15	13	17	15	12	18	15	13	17	15
70 to 80 Feet	12	13	13	13	15	14	11	12	12	12	13	13	11	13	12
80 to 90 Feet	9	8	8	10	9	9	9	6	8	9	8	8	9	8	8
90 to 100 Feet	6	4	5	7	5	6	5	3	4	6	4	5	6	5	5
above 100 Feet	28	11	19	27	10	18	27	9	18	29	12	21	29	11	20
Mean height Feet	89	67	78	87	68	77	88	65	76	90	69	79	89	67	78

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			6			4			6			8			8
% occur 2+ EL dcts			15			17			17			13			13
AVG station N			370			358			371			377			372
AVG station -N/Kft			18			16			19			19			19
AVG sfc wind Kts	16	14	15	17	16	16	16	15	15	15	14	15	14	13	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 18 04 N 76 51 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78397 18 04 N 76 51 W
Radiosonde station height: 3 Feet
Surface obs source: MS44 15 00 N 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM CON RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	4	4	3	4	4	4	5	5	3	5	4	3	4	4
1 GHz	37	25	31	35	25	30	39	26	33	38	26	32	38	23	30
3 GHz	52	38	45	52	40	46	53	38	46	52	39	46	52	37	45
6 GHz	83	78	80	83	80	82	83	76	79	83	78	81	83	76	80
10 GHz	94	94	94	94	94	94	93	93	93	94	94	94	95	93	94
20 GHz	97	97	97	97	97	97	96	97	96	97	97	97	97	97	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	19	23	21	17	25	21	23	26	25	16	22	19	18	20	19
AVG thickness Kft			.39			.41			.39			.37			.37
AVG trap freq GHz			.42			.48			.42			.37			.43
AVG lyr grd -N/Kft			78			81			79			77			74

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	29	37	33	42	47	45	28	40	34	20	25	23	26	36	31
AVG top ht Kft			7.7			8.2			7.8			6.7			8.2
AVG thickness Kft			.40			.46			.36			.33			.44
AVG trap freq GHz			.50			.32			.58			.69			.41
AVG lyr grd -N/Kft			58			60			59			55			60
AVG lyr base Kft			7.4			7.8			7.5			6.4			7.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	2	2	2	3	2	3	2	2	2	2	1	1
10 to 20 Feet	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2
20 to 30 Feet	3	4	4	3	4	3	3	5	4	3	4	4	3	4	4
30 to 40 Feet	5	7	6	5	7	6	5	8	7	5	7	6	5	7	6
40 to 50 Feet	8	13	11	8	12	10	8	15	12	8	13	10	9	14	12
50 to 60 Feet	12	18	15	11	17	14	12	19	16	11	18	14	12	18	15
60 to 70 Feet	13	17	15	13	18	15	13	17	15	12	18	15	13	17	15
70 to 80 Feet	12	13	13	13	15	14	11	12	12	12	13	13	11	13	12
80 to 90 Feet	9	8	8	10	9	9	9	6	8	9	8	8	9	8	8
90 to 100 Feet	6	4	5	7	5	6	5	3	4	6	4	5	6	5	5
above 100 Feet	28	11	19	27	10	18	27	9	18	29	12	21	29	11	20
Mean Height Feet	99	67	78	97	68	77	88	65	76	90	69	79	89	67	78

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			6			8			6			4			5
% occur 2+ EL dcts			5			8			6			3			4
AVG station N			372			366			372			376			373
AVG station -N/Kft			18			17			18			18			17
AVG sfc wind kts	16	14	15	17	16	16	16	15	15	15	14	15	14	13	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 19 19 N 81 21 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78384 19 19 N 81 21 W
Radiosonde station height: 10 Feet
Surface obs source: MS81 25 00 N 85 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	2	2	1	1	1	1	1	1	3	2	2	2	2	2
1 GHz	35	16	25	27	11	19	36	17	27	42	18	30	34	18	26
3 GHz	47	26	37	39	20	29	46	26	36	52	28	40	50	32	41
6 GHz	79	69	74	74	61	67	75	65	70	83	74	78	83	75	79
10 GHz	92	89	91	89	86	87	90	88	89	94	92	93	94	92	93
20 GHz	95	95	95	93	92	93	94	94	94	97	97	97	97	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	10	11	7	6	7	9	8	9	17	10	14	15	14	15
AVG thickness Kft			.41			.41			.45			.49			.46
AVG trap freq GHz			.59			.63			.60			.55			.59
AVG lyr grd -N kft			101			131			97			90			85

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	38	46	42	49	53	51	37	50	44	26	33	30	38	47	43
AVG top ht Kft			6.5			6.9			6.2			5.6			7.4
AVG thickness Kft			.47			.49			.48			.46			.44
AVG trap freq GHz			.35			.29			.35			.34			.40
AVG lyr grd -N/Kft			60			63			59			56			60
AVG lyr base Kft			6.2			6.6			5.8			5.2			7.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	5	4	5	4	3	3	2	1	1	2	2	2
10 to 20 Feet	2	4	3	3	4	3	3	4	4	2	4	3	1	3	2
20 to 30 Feet	4	6	5	4	7	6	4	7	5	4	5	4	3	5	4
30 to 40 Feet	5	8	7	6	10	8	6	9	8	5	6	6	5	7	6
40 to 50 Feet	9	14	12	10	15	13	10	15	13	9	13	11	8	12	10
50 to 60 Feet	12	18	15	12	18	15	13	18	15	13	20	16	11	16	14
60 to 70 Feet	13	16	14	13	15	14	11	14	13	13	18	16	13	17	15
70 to 80 Feet	10	12	11	11	11	11	8	9	9	9	12	11	13	15	14
80 to 90 Feet	7	6	7	7	5	6	6	5	5	6	6	6	10	8	9
90 to 100 Feet	4	3	4	4	3	4	4	2	3	4	3	3	6	5	6
above 100 Feet	30	11	20	24	8	16	32	13	23	35	13	24	27	10	19
Mean height Feet	91	65	78	81	60	70	93	66	79	100	70	85	90	67	78

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			2			2			2			6
% occur 2+ EL dcts			10			11			10			5			14
AVG station N			381			372			382			388			380
AVG station -N/Kft			20			19			21			21			19
AVG sfc wind kts	12	12	12	14	13	14	12	11	11	10	10	10	14	13	13

IREPS REV 2.1 -HISTORICAL PROPAGATION CONDITIONS SUMMARY-

Specified location: 12 34 N 81 42 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 80001 12 34 N 81 42 W
Radiosonde station height: 7 Feet
Surface obs source: MS44 15 00 N 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	4	3	3	5	4	2	3	2	2	4	3	4	4	4
1 GHz	35	25	30	34	29	32	32	21	27	35	26	31	40	25	32
3 GHz	51	40	45	51	45	48	47	33	40	51	40	45	55	40	48
6 GHz	83	78	80	83	82	83	80	74	77	82	79	81	84	78	81
10 GHz	94	94	94	94	95	95	92	93	93	94	94	94	95	93	94
20 GHz	96	97	97	97	98	97	95	96	96	97	97	97	98	97	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	17	28	23	17	34	26	12	22	17	14	27	21	20	28	24
AVG thickness Kft			.32			.36			.30			.32			.29
AVG trap freq GHz			.66			.59			.70			.66			.69
AVG lyr grd -N/Kft			79			90			82			80			66

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	38	33	36	57	45	51	39	33	36	23	22	23	32	33	33
AVG top ht Kft			6.8			7.0			6.8			6.1			7.3
AVG thickness Kft			.42			.43			.44			.42			.40
AVG trap freq GHz			.40			.41			.36			.40			.45
AVG lyr grd -N/Kft			58			57			60			57			57
AVG lyr base Kft			6.5			6.6			6.5			5.8			7.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	2	2	2	3	2	3	2	2	2	2	1	1
10 to 20 Feet	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2
20 to 30 Feet	3	4	4	3	4	3	3	5	4	3	4	4	3	4	4
30 to 40 Feet	5	7	6	5	7	6	5	8	7	5	7	6	5	7	6
40 to 50 Feet	8	13	11	8	12	10	8	15	12	8	13	10	9	14	12
50 to 60 Feet	12	18	15	11	17	14	12	19	16	11	18	14	12	18	15
60 to 70 Feet	13	17	15	13	18	15	13	17	15	12	18	15	13	17	15
70 to 80 Feet	12	13	13	13	15	14	11	12	12	12	13	13	11	13	12
80 to 90 Feet	9	8	8	10	9	9	9	6	8	9	8	8	9	8	8
90 to 100 Feet	6	4	5	7	5	6	5	3	4	6	4	5	6	5	5
above 100 Feet	28	11	19	27	10	18	27	9	18	29	12	21	29	11	20
Mean Height Feet	89	67	78	87	68	77	88	65	76	90	69	79	89	67	78

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			8			12			7			4			9
% occur 2+ EL dcts			8			12			7			4			7
AVG station N			383			376			384			388			384
AVG station -N/Kft			19			19			19			20			19
AVG sfc wind Kts	16	14	15	17	16	16	16	15	15	15	14	15	14	13	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 17 24 N 83 55 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78501 17 24 N 83 55 W
Radiosonde station height: 30 Feet
Surface obs source: MS81 25 00 N 85 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	1	2	1	0	1	1	0	1	1	0	1	1
1 GHz	31	15	23	26	14	20	33	16	25	36	17	26	29	13	21
3 GHz	43	25	34	37	23	30	43	24	33	45	26	35	45	26	36
6 GHz	77	68	73	73	63	68	74	64	69	80	73	76	81	73	77
10 GHz	91	89	90	89	86	88	90	87	88	93	92	92	93	91	92
20 GHz	95	95	95	93	93	93	94	94	94	97	97	97	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	8	6	5	12	9	3	7	5	2	7	5	3	6	5
AVG thickness Kft			.34			.37			.28			.33			.36
AVG trap freq GHz			.88			1.0			1.1			.63			.77
AVG lyr grd -N/Kft			140			200			126			126			196

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	42	40	41	57	56	57	41	39	40	30	25	28	38	41	40
AVG top ht Kft			6.8			7.4			6.8			5.6			7.5
AVG thickness Kft			.42			.48			.43			.36			.42
AVG trap freq GHz			.42			.29			.46			.53			.39
AVG lyr grd -N/Kft			60			63			57			59			61
AVG lyr base Kft			6.5			7.0			6.5			5.4			7.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	5	4	5	4	3	3	2	1	1	2	2	2
10 to 20 Feet	2	4	3	3	4	3	3	4	4	2	4	3	1	3	2
20 to 30 Feet	4	6	5	4	7	6	4	7	5	4	5	4	3	5	4
30 to 40 Feet	5	8	7	6	10	8	6	9	8	5	6	6	5	7	6
40 to 50 Feet	9	14	12	10	15	13	10	15	13	9	13	11	8	12	10
50 to 60 Feet	12	18	15	12	18	15	13	18	15	13	20	16	11	16	14
60 to 70 Feet	13	16	14	13	15	14	11	14	13	13	18	16	13	17	15
70 to 80 Feet	10	12	11	11	11	11	8	9	9	9	12	11	13	15	14
80 to 90 Feet	7	6	7	7	5	6	6	5	5	6	6	6	10	8	9
90 to 100 Feet	4	3	4	4	3	4	4	2	3	4	3	3	6	5	6
above 100 Feet	30	11	20	24	8	16	32	13	23	35	13	24	27	10	19
Mean height Feet	91	65	78	81	60	70	93	66	79	100	70	85	90	67	79

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			5			2			1			1
% occur 2+ EL dcts			10			14			10			5			11
AVG station N			377			368			378			385			376
AVG station -N/Kft			19			18			19			20			18
AVG sfc wind Kts	12	12	12	14	13	14	12	11	11	10	10	10	14	13	13

IREPS REV 2.1 HISTOPICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 19 09 N 96 07 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 76692 19 09 N 96 07 W
Radiosonde station height: 43 Feet
Surface obs source: MS46 15 00 N 95 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	2	3	3	1	2	6	3	4	3	2	3	2	1	2
1 GHz	51	22	36	56	19	37	51	24	38	41	22	32	54	23	38
3 GHz	59	29	44	65	25	45	60	31	46	50	30	40	63	30	46
6 GHz	79	58	69	82	53	68	80	61	70	75	60	67	80	58	69
10 GHz	91	81	86	92	77	84	92	82	87	91	84	88	90	81	86
20 GHz	96	90	93	95	87	91	96	91	94	96	93	95	95	90	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	23	11	17	18	4	11	35	17	26	22	17	20	17	6	12
AVG thickness Kft			.36			.35			.37			.35			.37
AVG trap freq GHz			.62			.43			.56			.75			.73
AVG lyr grd -N/Kft			87			82			80			79			107

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	28	42	35	32	65	49	31	42	37	23	24	24	27	37	32
AVG top ht Kft			5.0			6.1			5.0			2.9			5.9
AVG thickness Kft			.54			.63			.54			.49			.52
AVG trap freq GHz			.29			.20			.28			.38			.29
AVG lyr grd -N/Kft			59			61			57			55			62
AVG lyr base Kft			4.6			5.7			4.6			2.5			5.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	3	3	3	2	2	2	1	1	1	4	3	3
10 to 20 Feet	3	9	6	3	10	7	4	9	7	4	8	6	3	8	5
20 to 30 Feet	6	10	8	5	11	8	7	11	9	6	10	8	5	9	7
30 to 40 Feet	6	11	8	5	11	8	7	10	9	8	11	10	5	10	7
40 to 50 Feet	9	15	12	6	13	10	10	15	12	12	17	15	7	14	11
50 to 60 Feet	10	15	13	8	14	11	12	16	14	13	17	15	8	14	11
60 to 70 Feet	8	10	9	7	10	8	8	11	10	10	10	10	6	9	8
70 to 80 Feet	6	6	6	5	6	6	6	7	6	6	6	6	5	6	5
80 to 90 Feet	4	4	4	5	4	4	4	3	4	4	4	4	5	4	4
90 to 100 Feet	3	2	3	4	2	3	3	2	2	3	2	2	4	2	3
above 100 Feet	42	16	29	49	17	33	37	15	26	33	14	23	49	20	35
Mean height Feet	105	67	86	116	66	91	99	64	82	93	64	79	114	72	93

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SE dcts			4			3			6			3			4
% occur 2+ EL dcts			5			4			7			3			5
AVG station N			374			363			380			383			369
AVG station -N/Kft			19			18			21			21			18
AVG sfc wind Kts	9.2	7.8	8.5	9.5	7.8	8.6	8.2	7.1	7.7	9.2	8.0	8.6	10	8.5	9.1

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 N 105 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 76723 18 43 N 110 57 W
Radiosonde station height: 125 Feet
Surface obs source: MS47 15 00 N 105 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	12	0	6	14	0	7	9	0	5	11	0	6	13	0	6
1 GHz	69	10	40	74	9	41	64	9	37	68	11	39	72	11	42
3 GHz	81	15	48	85	13	49	77	13	45	80	17	48	83	15	49
6 GHz	93	51	72	95	49	72	91	51	71	92	54	73	93	52	72
10 GHz	97	82	90	98	81	89	97	82	89	97	83	90	97	81	89
20 GHz	99	91	95	99	91	95	99	91	95	99	92	96	99	90	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	80	0	40	86	0	43	75	0	38	76	0	38	82	0	41
AVG thickness Kft			.22			.24			.21			.17			.24
AVG trap freq GHz			.74			.58			1.1			.68			.62
AVG lyr grd -N/Kft			150			163			131			177			128

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	0	20	49	0	25	30	0	15	39	0	20	45	0	23
AVG top ht Kft			3.9			3.7			3.5			4.2			4.3
AVG thickness Kft			.54			.43			.51			.55			.66
AVG trap freq GHz			.57			.37			1.4			.29			.18
AVG lyr grd -N/Kft			63			61			71			57			64
AVG lyr base Kft			3.6			3.4			3.2			3.7			3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	2	2	2	3	2	2	2	1	2	2	2	2
10 to 20 Feet	2	7	5	2	8	5	2	7	5	2	6	4	3	8	6
20 to 30 Feet	5	9	7	6	10	8	5	9	7	5	9	7	6	9	8
30 to 40 Feet	6	12	9	5	13	9	6	13	9	6	11	9	6	12	9
40 to 50 Feet	8	18	13	8	18	13	8	18	13	9	18	13	8	18	13
50 to 60 Feet	10	19	15	10	19	15	10	20	15	11	19	15	9	19	14
60 to 70 Feet	9	11	10	9	11	10	9	11	10	9	12	10	9	11	10
70 to 80 Feet	6	6	6	7	6	6	7	6	6	6	7	7	6	6	6
80 to 90 Feet	4	3	4	4	3	4	5	3	4	4	4	4	4	3	3
90 to 100 Feet	3	2	2	3	2	2	3	1	2	3	2	3	2	2	2
above 100 Feet	43	10	27	43	9	26	43	9	26	42	11	26	45	11	28
Mean height Feet	109	59	84	108	57	83	109	58	84	107	61	84	111	60	86

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			30			43			15			26			37
% occur 2+ EL dcts			5			2			3			6			7
AVG station N			366			356			361			381			365
AVG station -N/Kft			20			19			20			21			18
AVG sfc wind Kts	8.5	8.5	8.5	8.4	8.2	8.3	8.7	8.7	8.7	9.2	9.2	9.2	7.8	7.9	7.8

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 18 43 N 110 57 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 76723 18 43 N 110 57 W
Radiosonde station height: 125 Feet
Surface obs source: MS48 15 00 N 115 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	12	0	6	14	0	7	9	0	5	11	0	6	13	0	6
1 GHz	62	5	33	66	5	35	54	3	29	63	6	35	63	6	34
3 GHz	77	9	43	82	9	45	70	7	39	77	9	43	79	11	45
6 GHz	93	55	74	96	60	78	92	56	74	91	47	69	94	55	75
10 GHz	98	89	93	99	91	95	98	91	94	97	85	91	98	88	93
20 GHz	99	95	97	100	96	98	99	97	98	99	92	95	99	95	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	80	0	40	86	0	43	75	0	38	76	0	38	82	0	41
AVG thickness Kft			.22			.24			.21			.17			.24
AVG trap freq GHz			.74			.58			1.1			.68			.62
AVG lyr grd -N/Kft			150			163			131			177			128

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	0	20	49	0	25	30	0	15	39	0	20	45	0	23
AVG top ht Kft			3.9			3.7			3.5			4.2			4.3
AVG thickness Kft			.54			.43			.51			.55			.66
AVG trap freq GHz			.57			.37			1.4			.29			.18
AVG lyr grd -N/Kft			63			61			71			57			64
AVG lyr base Kft			3.6			3.4			3.2			3.7			3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	1	1	2	1	1	3	2	2	2	1	2
10 to 20 Feet	2	3	2	1	2	2	1	2	2	2	6	4	2	3	2
20 to 30 Feet	3	6	5	3	5	4	3	6	5	4	8	6	3	7	5
30 to 40 Feet	5	12	9	5	10	7	5	11	8	6	15	11	6	12	9
40 to 50 Feet	10	22	16	10	21	15	10	23	17	10	22	16	10	21	16
50 to 60 Feet	14	23	19	15	25	20	15	25	20	13	20	16	14	23	18
60 to 70 Feet	14	15	14	16	17	16	15	16	15	10	11	11	14	14	14
70 to 80 Feet	11	8	10	12	9	11	12	9	10	8	7	8	12	8	10
80 to 90 Feet	6	3	5	6	3	5	6	3	4	6	2	4	7	4	6
90 to 100 Feet	4	1	2	4	1	3	4	1	2	3	1	2	3	2	2
above 100 Feet	28	5	17	26	5	15	28	3	16	34	6	20	25	6	16
Mean height Feet	90	56	73	8[illegible]	58	73	90	54	72	97	54	76	87	57	72

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			30			43			15			26			37
% occur 2+ EL dcts			5			2			3			6			7
AVG station N			366			356			361			381			365
AVG station -N/Kft			20			19			20			21			18
AVG sfc wind Kts	12	11	12	13	12	13	12	11	11	12	11	11	13	12	12

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 N 125 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 76723 18 43 N 110 57 W
Radiosonde station height: 125 Feet
Surface obs source: MS49 15 00 N 125 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE PADAP/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	12	0	6	14	0	7	9	0	5	11	0	6	13	0	6
1 GHz	59	4	32	64	3	34	52	4	28	60	5	33	61	3	32
3 GHz	76	8	42	81	8	44	69	8	38	75	8	42	78	8	43
5 GHz	93	56	74	95	59	77	91	60	76	90	48	69	94	58	76
10 GHz	98	90	94	99	92	95	98	91	95	97	85	91	98	90	94
20 GHz	99	96	98	99	98	99	99	96	98	99	94	96	99	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	80	0	40	86	0	43	75	0	38	76	0	39	82	0	41
AVG thickness Kft			.22			.24			.21			.17			.24
AVG trap freq GHz			.74			.58			1.1			.68			.62
AVG lyr grd -N/Kft			150			163			131			177			128

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	0	20	49	0	25	30	0	15	39	0	20	45	0	23
AVG top ht Kft			3.9			3.7			3.5			4.2			4.3
AVG thickness Kft			.54			.43			.51			.55			.66
AVG trap freq GHz			.57			.37			1.4			.29			.18
AVG lyr grd -N/Kft			63			61			71			57			64
AVG lyr base Kft			3.6			3.4			3.2			3.7			3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	1	1	2	1	2	3	2	2	2	2	2
10 to 20 Feet	2	3	2	1	2	2	2	2	2	2	5	3	2	2	2
20 to 30 Feet	4	6	5	3	6	5	3	5	4	4	9	7	3	6	5
30 to 40 Feet	6	12	9	5	11	8	5	11	8	8	15	11	6	11	9
40 to 50 Feet	11	21	16	10	21	16	10	21	15	12	22	17	10	20	15
50 to 60 Feet	15	24	19	16	26	21	16	27	21	13	22	18	14	22	18
60 to 70 Feet	14	16	15	15	17	16	16	17	16	11	12	12	15	18	16
70 to 80 Feet	11	8	10	12	9	10	12	8	10	9	6	7	13	11	12
80 to 90 Feet	7	3	5	8	3	6	6	3	5	6	2	4	8	4	6
90 to 100 Feet	4	1	3	4	1	3	4	1	3	3	1	2	4	2	3
above 100 Feet	24	4	14	22	3	13	24	4	14	29	5	17	22	3	12
Mean height Feet	85	55	70	83	55	69	85	56	71	88	53	70	82	55	69

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			30			43			15			26			37
% occur 2+ EL dcts			5			2			3			6			7
AVG station N			366			356			361			381			365
AVG station -N/Kft			20			19			20			21			18
AVG sfc wind Kts	14	13	14	15	15	15	14	13	13	12	12	12	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 N 135 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YN 30 00 N 140 00 W
Radiosonde station height: 39 Feet
Surface obs source: MS50 15 00 N 135 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	0	2	3	1	2	2	1	1	3	0	2	1	0	1
1 GHz	33	6	20	33	7	20	32	6	19	40	7	23	28	5	17
3 GHz	46	12	29	46	13	29	45	11	28	50	11	31	41	11	26
6 GHz	78	57	68	79	58	69	80	60	70	78	50	64	76	60	69
10 GHz	93	89	91	93	90	91	94	91	92	93	85	89	92	91	91
20 GHz	96	96	96	96	96	96	97	97	97	96	94	95	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	3	12	22	5	14	17	4	11	25	2	14	15	2	9
AVG thickness Kft			.36			.29			.36			.45			.33
AVG trap freq GHz			1.0			.81			.75			.82			1.7
AVG lyr grd -N/Kft			115			67			88			149			157

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	47	66	57	38	57	48	51	67	59	53	68	61	47	71	59
AVG top ht Kft			5.2			5.2			5.0			5.5			5.3
AVG thickness Kft			.61			.57			.59			.66			.63
AVG trap freq GHz			.18			.20			.18			.16			.18
AVG lyr grd -N/Kft			68			66			69			71			68
AVG lyr base Kft			4.9			4.8			4.7			5.1			4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	1	2	3	2	2	3	1	2	3	2	3	3	1	2
10 to 20 Feet	2	3	2	2	2	2	1	2	2	2	4	3	2	2	2
20 to 30 Feet	4	7	5	4	6	5	4	6	5	4	9	7	4	6	5
30 to 40 Feet	5	13	9	6	12	9	5	12	8	7	15	11	7	11	9
40 to 50 Feet	11	21	16	10	21	16	11	21	16	12	21	16	10	20	15
50 to 60 Feet	14	22	18	15	21	18	14	24	19	14	19	16	13	23	18
60 to 70 Feet	13	16	14	13	16	15	13	18	16	11	14	12	13	16	14
70 to 80 Feet	11	9	10	11	9	10	12	9	10	9	7	8	12	10	11
80 to 90 Feet	6	3	5	6	4	5	7	3	5	5	3	4	7	4	6
90 to 100 Feet	4	2	3	4	2	3	5	1	3	4	1	2	5	2	3
above 100 Feet	26	5	15	24	4	14	25	4	15	30	6	18	24	4	14
Mean height Feet	68	55	70	82	55	69	86	56	71	90	54	72	81	57	69

GENERAL METEOROLOGICAL SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			3			5			6			2
% occur 2+ EL dcts			5			3			4			7			5
AVG station N			346			339			342			355			346
AVG station -N/Kft			15			15			15			17			16
AVG sfc wind Kts	15	15	15	16	16	16	16	15	15	13	13	13	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 N 145 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91285 19 43 N 155 04 W
Radiosonde station height: 36 Feet
Surface obs source: PGUA 15 00 N 145 00 W

PERCENT OCCURRENCE ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	5	1	3	4	0	2	4	1	2	6	1	4	5	0	2
1 GHz	40	7	24	37	6	22	40	6	23	47	10	29	38	6	22
3 GHz	54	14	34	50	12	31	53	12	33	60	18	39	52	14	33
6 GHz	82	61	72	79	57	68	85	65	75	82	59	71	83	63	73
10 GHz	94	90	92	93	89	91	95	91	93	94	89	92	94	92	93
20 GHz	97	97	97	96	96	96	97	98	97	97	96	96	97	97	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	33	4	18	31	3	17	29	4	17	40	6	23	30	3	17
AVG thickness Kft			.36			.31			.38			.41			.35
AVG trap freq GHz			.73			.91			.75			.60			.67
AVG lyr grd -M/Kft			75			70			91			71			68

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	43	63	53	35	55	45	47	66	57	50	73	62	40	58	49
AVG top ht Kft			7.3			7.1			7.3			7.3			7.4
AVG thickness Kft			.56			.55			.55			.61			.52
AVG trap freq GHz			.22			.22			.23			.19			.25
AVG lyr grd -M/Kft			66			68			64			65			65
AVG lyr base Kft			6.9			6.8			7.0			6.8			7.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	1	2	3	2	2	2	1	1	3	2	2	3	2	2
10 to 20 Feet	2	2	2	2	2	2	2	2	2	2	3	3	2	2	2
20 to 30 Feet	4	7	5	4	7	6	3	6	5	4	7	6	4	5	4
30 to 40 Feet	6	12	9	7	13	10	5	10	7	8	13	10	6	12	9
40 to 50 Feet	10	19	14	11	20	16	9	18	13	10	20	15	9	18	14
50 to 60 Feet	13	22	17	14	21	17	12	25	18	12	20	16	13	22	18
60 to 70 Feet	13	16	14	13	15	14	15	19	17	10	12	11	13	17	15
70 to 80 Feet	11	11	11	10	10	10	13	11	12	9	10	10	13	11	12
80 to 90 Feet	7	4	6	6	3	5	7	3	5	7	4	6	8	5	6
90 to 100 Feet	4	2	3	4	2	3	5	2	3	4	2	3	4	3	3
above 100 Feet	27	5	16	25	5	15	28	4	16	30	7	18	25	5	15
Mean height Feet	86	57	72	83	56	70	89	57	73	89	57	73	83	58	70

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			8			4			8			13			7
% occur 2+ EL dcts			8			6			9			11			7
AVG station N			361			355			361			365			361
AVG station -N/Kft			16			15			16			16			16
AVG sfc wind Kts	16	15	16	16	15	16	17	16	16	15	14	14	17	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 19 43 N 155 04 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91285 19 43 N 155 04 W
Radiosonde station height: 36 Feet
Surface obs source: MS52 15 00 N 155 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	5	1	3	4	0	2	4	1	2	6	1	4	5	0	2
1 GHz	41	8	25	37	7	22	41	8	24	48	11	30	37	7	22
3 GHz	55	16	36	50	15	32	57	15	36	61	20	40	51	16	34
6 GHz	84	65	74	81	60	70	85	68	76	86	65	76	83	67	75
10 GHz	95	92	94	95	90	92	95	94	95	96	92	94	95	93	94
20 GHz	98	97	97	98	96	97	97	99	98	98	96	97	98	98	98

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	33	4	18	31	3	17	29	4	17	40	6	23	30	3	17
AVG thickness Kft			.36			.31			.38			.41			.35
AVG trap freq GHz			.73			.91			.75			.60			.67
AVG lyr grd -N/Kft			75			70			91			71			68

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	43	63	53	35	55	45	47	66	57	50	73	62	40	58	49
AVG top ht Kft			7.3			7.1			7.3			7.3			7.4
AVG thickness Kft			.56			.55			.55			.61			.52
AVG trap freq GHz			.22			.22			.23			.19			.25
AVG lyr grd -N/Kft			66			68			64			65			65
AVG lyr base Kft			6.9			6.8			7.0			6.8			7.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	1	1	1	1	2	1	1	2	1	2	1	1	1
10 to 20 Feet	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2
20 to 30 Feet	3	5	4	4	6	5	3	5	4	3	5	4	3	5	4
30 to 40 Feet	6	10	8	8	11	10	5	9	7	6	9	7	6	11	8
40 to 50 Feet	10	18	14	11	19	15	9	18	13	9	19	14	11	16	13
50 to 60 Feet	13	22	18	13	20	17	11	25	18	14	22	18	15	22	19
60 to 70 Feet	13	17	15	14	16	15	12	19	15	12	16	14	14	17	16
70 to 80 Feet	12	11	11	12	11	11	12	11	11	11	9	10	12	12	12
80 to 90 Feet	7	5	6	6	5	5	9	5	7	6	5	6	8	6	7
90 to 100 Feet	5	2	4	4	2	3	6	2	4	4	3	3	5	3	4
above 100 Feet	27	6	17	25	6	16	29	6	18	31	8	20	23	5	14
Mean height Feet	88	60	74	85	59	72	91	60	76	92	62	77	84	60	72

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			8			4			8			13			7
% occur 2+ EL dcts			8			6			9			11			7
AVG station N			361			355			361			365			361
AVG station -N/Kft			16			15			16			16			16
AVG sfc wind Kts	15	15	15	15	15	15	16	16	16	14	14	14	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 16 43 N 169 31 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91275 16 43 N 169 31 W
Radiosonde station height: 10 Feet
Surface obs source: MS53 15 00 N 165 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	0	2	5	0	3	3	1	2	4	0	2	4	0	2
1 GHz	41	11	26	43	12	27	41	11	26	43	11	27	38	10	24
3 GHz	54	20	37	56	20	38	53	20	37	55	20	37	53	21	37
6 GHz	84	71	77	84	69	77	83	72	78	84	73	78	83	68	75
10 GHz	96	94	95	96	94	95	95	95	95	96	94	95	96	93	94
20 GHz	98	97	97	98	98	98	97	97	97	98	97	97	98	97	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	25	3	14	30	2	16	20	4	12	25	2	14	25	2	14
AVG thickness Kft			.39			.38			.40			.40			.37
AVG trap freq GHz			53			.49			.50			.50			.62
AVG lyr grd -N/Kft			103			102			106			91			113

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	42	61	52	45	62	54	47	68	58	38	61	50	37	54	45
AVG top ht Kft			7.1			6.6			7.2			7.5			6.9
AVG thickness Kft			.47			.47			.47			.45			.48
AVG trap freq GHz			.32			.36			.30			.35			.29
AVG lyr grd -N/Kft			62			63			59			60			68
AVG lyr base Kft			6.7			6.3			6.8			7.2			6.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUPRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	1	1	1	1	2	1	2	2	1	1	1	1	1
10 to 20 Feet	1	2	2	2	2	2	2	2	2	1	2	1	1	3	2
20 to 30 Feet	3	3	3	3	4	4	2	3	3	2	3	3	3	3	3
30 to 40 Feet	5	7	6	6	8	7	5	6	6	5	7	6	6	8	7
40 to 50 Feet	10	17	13	11	17	14	9	17	13	11	15	13	11	18	14
50 to 60 Feet	14	22	18	13	21	17	14	23	18	13	23	18	15	21	18
60 to 70 Feet	13	18	15	13	17	15	14	18	16	14	19	17	12	16	14
70 to 80 Feet	10	12	11	11	12	11	9	12	10	10	12	11	10	11	11
80 to 90 Feet	7	6	6	7	5	6	6	6	6	7	5	6	8	6	7
90 to 100 Feet	5	3	4	5	3	4	5	3	4	4	3	4	5	4	5
above 100 Feet	30	10	20	28	10	19	32	9	20	32	10	21	27	9	18
Mean height Feet	92	66	79	91	67	79	94	66	80	94	67	81	89	64	76

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			5			5			3			3
% occur 2+ EL dcts			13			13			14			13			12
AVG station N			370			365			369			375			372
AVG station -N/Kft			18			18			18			19			18
AVG sfc wind Kts	15	14	15	15	15	15	15	15	15	14	13	14	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 N 175 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91275 16 43 N 169 31 W
Radiosonde station height: 10 Feet
Surface obs source: MSS4 15 00 N 175 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	0	2	5	0	3	3	1	2	4	0	2	4	0	2
1 GHz	46	11	29	50	10	30	42	11	27	46	11	28	47	13	30
3 GHz	58	21	39	60	20	40	53	19	36	56	21	38	62	[illegible]	43
6 GHz	85	73	79	85	67	76	85	75	80	85	74	79	86	7	82
10 GHz	96	93	94	95	91	93	95	95	95	96	91	94	96	94	95
20 GHz	97	97	97	97	96	96	97	98	98	97	97	97	98	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	25	3	14	30	2	16	20	4	12	25	2	14	25	2	14
AVG thickness Kft			.39			.38			.40			.40			.37
AVG trap freq GHz			.53			.49			.50			.50			.62
AVG lyr grd -N/Kft			103			102			106			91			113

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	42	61	52	45	62	54	47	68	58	38	61	50	37	54	46
AVG top ht Kft			7.1			6.6			7.2			7.5			6.9
AVG thickness Kft			.47			.47			.47			.45			.48
AVG trap freq GHz			.32			.36			.30			.35			.29
AVG lyr grd -N/Kft			63			63			59			60			68
AVG lyr base Kft			6.7			6.3			6.8			7.2			6.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	1	1	2	1	1	2	2	2	2	1	1
10 to 20 Feet	2	2	2	2	4	3	2	1	1	1	2	2	2	2	2
20 to 30 Feet	2	4	3	2	5	4	3	3	3	2	6	4	3	2	3
30 to 40 Feet	4	7	6	4	9	7	4	5	4	5	7	6	5	6	5
40 to 50 Feet	9	13	11	11	15	13	9	16	13	9	11	10	8	11	10
50 to 60 Feet	13	21	17	14	21	18	13	25	19	14	19	17	12	19	16
60 to 70 Feet	11	19	15	11	16	13	13	19	16	13	21	17	8	19	14
70 to 80 Feet	9	13	11	7	11	9	11	15	13	9	13	11	9	15	12
80 to 90 Feet	7	6	6	6	6	6	7	5	6	5	6	5	9	7	8
90 to 100 Feet	4	3	4	4	3	3	4	2	3	4	4	4	6	4	5
above 100 Feet	36	10	23	37	9	23	33	9	21	35	10	22	37	12	25
Mean height Feet	99	67	83	100	64	82	96	66	81	100	68	84	102	70	86

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			5			5			3			3
% occur 2+ EL dcts			13			13			14			13			12
AVG station N			370			365			369			375			372
AVG station -N/Kft			18			18			18			19			18
AVG sfc wind Kts	15	14	14	15	14	15	15	15	15	14	14	14	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 N 175 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91376 7 04 N 171 22 E
Radiosonde station height: 10 Feet
Surface obs source: MSSS 15 00 N 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	9	2	5	9	1	5	8	2	5	9	1	5	8	2	5
1 GHz	61	15	38	64	13	38	57	12	35	62	15	38	63	19	41
3 GHz	73	26	50	75	22	49	69	24	46	72	22	47	77	37	57
6 GHz	91	74	82	91	68	79	90	74	82	91	74	82	91	79	85
10 GHz	97	93	95	97	92	94	97	93	95	98	93	96	96	95	96
20 GHz	98	97	98	98	96	97	98	97	97	99	97	98	98	98	98

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	44	8	26	45	7	26	40	9	25	46	7	27	44	9	27
AVG thickness Kft			.34			.33			.36			.33			.33
AVG trap freq GHz			.40			.40			.38			.37			.45
AVG lyr grd -N/Kft			88			85			84			97			86

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	22	25	23	31	36	34	20	19	20	14	18	16	21	25	23
AVG top ht Kft			6.6			7.0			6.2			5.8			7.5
AVG thickness Kft			.40			.49			.35			.40			.36
AVG trap freq GHz			.48			.33			.55			.48			.57
AVG lyr grd -N/Kft			59			59			59			58			59
AVG lyr base Kft			6.3			6.6			5.9			5.5			7.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	1	2	2	1	2	2	1	2	3	1	2
10 to 20 Feet	1	2	2	1	4	2	1	2	2	1	2	1	1	2	1
20 to 30 Feet	2	4	3	3	5	4	2	4	3	2	3	3	3	3	3
30 to 40 Feet	4	7	5	3	9	6	5	6	5	5	7	6	4	5	5
40 to 50 Feet	6	15	11	7	17	12	7	16	11	7	15	11	5	12	8
50 to 60 Feet	9	19	14	8	21	14	10	22	16	12	21	16	7	13	10
60 to 70 Feet	10	20	15	10	16	13	12	21	17	11	22	17	6	19	13
70 to 80 Feet	9	12	11	8	12	10	10	12	11	9	11	10	9	14	12
80 to 90 Feet	7	7	7	7	6	7	6	6	-	5	5	5	9	11	10
90 to 100 Feet	5	4	5	5	3	4	6	4	5	5	2	3	7	7	7
above 100 Feet	43	10	27	46	8	27	39	6	22	42	10	26	47	14	30
Mean height Feet	109	65	88	113	62	87	104	64	84	108	67	88	111	73	92

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			5			8			4			4			4
% occur 2+ EL dcts			4			8			2			2			5
AVG station N			384			381			387			384			384
AVG station -N/Kft			19			19			20			19			19
AVG sfc wind Kts	15	14	15	15	14	14	15	15	15	13	13	13	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 11 24 N 162 24 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91250 11 24 N 162 24 E
Radiosonde station height: 20 Feet
Surface obs source: MS56 15 00 N 165 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	1	2	3	1	2	2	1	1	4	1	2	4	1	3
1 GHz	58	12	35	52	9	30	60	14	37	62	13	37	57	12	35
3 GHz	69	23	46	64	18	41	69	24	47	71	22	47	73	29	51
6 GHz	89	73	81	88	68	78	88	73	80	89	69	79	92	82	87
10 GHz	96	94	95	95	91	93	94	94	94	95	92	94	97	98	98
20 GHz	97	97	97	97	95	96	96	98	97	97	96	97	99	99	99

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	4	12	17	3	10	15	5	10	21	4	13	28	5	17
AVG thickness Kft			.35			.33			.39			.32			.34
AVG trap freq GHz			.57			.42			.70			.53			.62
AVG lyr grd -N/Kft			100			83			133			103			80

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	24	42	33	39	64	52	22	40	31	14	22	18	20	40	30
AVG top ht Kft			6.0			6.1			6.2			4.9			6.6
AVG thickness Kft			.47			.56			.47			.38			.46
AVG trap freq GHz			.37			.24			.32			.63			.31
AVG lyr grd -N/Kft			60			64			59			58			60
AVG lyr base Kft			5.6			5.7			5.9			4.6			6.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	2	2	3	1	2	2	1	*	1	0	1
10 to 20 Feet	1	2	2	1	3	2	1	1	1	1	3	2	1	1	1
20 to 30 Feet	2	3	3	2	4	3	2	4	3	2	4	3	2	1	1
30 to 40 Feet	3	7	5	3	8	5	3	8	6	3	7	5	3	4	4
40 to 50 Feet	5	15	10	6	16	11	4	15	9	4	17	11	4	12	8
50 to 60 Feet	7	19	13	8	22	15	7	18	12	7	18	12	6	18	12
60 to 70 Feet	8	18	13	10	16	13	7	19	13	8	20	14	9	19	14
70 to 80 Feet	8	14	11	10	13	11	7	13	10	7	11	9	9	18	13
80 to 90 Feet	7	7	7	7	6	7	4	6	5	6	6	6	9	10	9
90 to 100 Feet	5	4	5	5	3	4	5	4	4	3	3	3	9	6	7
above 100 Feet	51	10	30	45	7	26	56	12	34	56	10	33	48	10	29
Mean height Feet	118	67	93	109	61	85	125	69	97	127	67	97	113	70	92

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			3			2			0			3
% occur 2+ EL dcts			8			14			9			4			6
AVG station N			382			373			383			388			384
AVG station -N/Kft			19			18			18			19			19
AVG sfc wind Kts	15	14	14	15	14	14	15	14	14	13	12	13	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 19 16 N 166 39 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91245 19 16 N 166 39 E
Radiosonde station height: 16 Feet
Surface obs source: MS56 15 00 N 165 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	8	2	5	8	2	5	7	1	4	7	1	4	9	3	6
1 GHz	65	15	40	62	14	38	68	16	42	67	13	40	64	18	41
3 GHz	77	27	52	74	24	49	77	26	52	77	22	49	79	35	57
6 GHz	92	74	83	91	70	81	91	73	82	91	69	80	94	83	88
10 GHz	97	94	95	97	92	94	96	95	95	96	92	94	98	98	98
20 GHz	98	97	98	98	96	97	97	98	98	98	96	97	99	99	99

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	9	25	44	11	28	37	7	22	37	4	21	44	13	29
AVG thickness Kft			.42			.42			.43			.39			.43
AVG trap freq GHz			.41			.44			.38			.43			.40
AVG lyr grd -N/Kft			72			69			77			70			74

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	56	50	43	53	72	63	34	50	42	13	21	17	45	55	50
AVG top ht Kft			6.6			6.5			6.5			6.4			6.7
AVG thickness Kft			.51			.56			.50			.42			.57
AVG trap freq GHz			.30			.23			.29			.48			.22
AVG lyr grd -N/Kft			62			64			63			57			64
AVG lyr base Kft			6.2			6.2			6.2			6.1			6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	2	2	3	1	2	2	1	1	1	0	1
10 to 20 Feet	1	2	2	1	3	2	1	1	1	1	3	2	1	1	1
20 to 30 Feet	2	3	3	2	4	3	2	4	3	2	4	3	2	1	1
30 to 40 Feet	3	7	5	3	8	5	3	8	6	3	7	5	3	4	4
40 to 50 Feet	5	15	10	6	16	11	4	15	9	4	17	11	4	12	8
50 to 60 Feet	7	19	13	8	22	15	7	18	12	7	18	12	6	18	12
60 to 70 Feet	8	18	13	10	16	13	7	19	13	8	20	14	9	19	14
70 to 80 Feet	8	14	11	10	13	11	7	13	10	7	11	9	9	18	13
80 to 90 Feet	7	7	7	7	6	7	4	6	5	6	6	6	9	10	9
90 to 100 Feet	5	4	5	5	3	4	5	4	4	3	3	3	9	6	7
above 100 Feet	51	10	30	45	7	26	56	12	34	56	10	33	48	10	29
Mean height Feet	118	67	93	109	61	85	125	69	97	127	67	97	113	70	92

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			9			13			7			2			13
% occur 2+ EL dcts			9			11			8			4			12
AVG station N			378			366			377			388			380
AVG station -N/Kft			20			18			20			20			20
AVG sfc wind Kts	15	14	14	15	14	14	15	14	14	13	12	13	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 N 155 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91250 11 24 N 162 24 E
Radiosonde station height: 20 Feet
Surface obs source: MS57 15 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	1	2	3	1	2	2	1	1	4	1	2	4	1	3
1 GHz	53	10	32	49	10	30	56	10	33	53	10	31	53	10	32
3 GHz	65	19	42	63	22	42	69	19	44	63	16	39	67	21	44
6 GHz	88	69	78	87	69	78	88	71	79	86	62	74	89	75	82
10 GHz	95	93	94	95	93	94	95	94	94	95	89	92	96	94	95
20 GHz	97	96	97	97	96	96	97	97	97	97	95	96	98	97	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	4	12	17	3	10	15	5	10	21	4	13	28	5	17
AVG thickness Kft			.35			.33			.39			.32			.34
AVG trap freq GHz			.57			.42			.70			.53			.62
AVG lyr grd -N/Kft			100			83			133			103			80

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	24	42	33	39	64	52	22	40	31	14	22	18	20	40	30
AVG top nt Kft			6.0			6.1			6.2			4.9			6.6
AVG thickness Kft			.47			.56			.47			.38			.46
AVG trap freq GHz			.37			.24			.32			.63			.31
AVG lyr grd -N/Kft			60			64			59			58			60
AVG lyr base Kft			5.6			5.7			5.9			4.6			6.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	1	2	3	1	2	2	1	1	2	1	1
10 to 20 Feet	1	3	2	1	3	2	1	2	2	2	4	3	1	2	1
20 to 30 Feet	2	4	3	2	4	3	2	4	3	3	6	4	2	2	2
30 to 40 Feet	3	8	6	3	8	6	3	8	5	4	10	7	3	6	5
40 to 50 Feet	6	16	11	6	16	11	5	17	11	7	19	13	6	14	10
50 to 60 Feet	9	21	15	9	19	14	7	20	14	10	22	16	9	21	15
60 to 70 Feet	9	19	14	10	17	13	8	21	14	10	17	13	10	20	15
70 to 80 Feet	8	12	10	10	13	11	7	12	10	8	9	9	9	15	12
80 to 90 Feet	7	6	6	8	7	8	7	5	6	5	3	4	7	7	7
90 to 100 Feet	5	3	4	6	4	5	5	3	4	4	2	3	6	4	5
above 100 Feet	46	8	27	43	8	25	52	7	30	45	7	26	44	8	26
Mean height Feet	113	63	88	108	64	86	121	63	92	113	59	86	110	66	88

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			3			2			0			3
% occur 2+ EL dcts			8			14			9			4			6
AVG station N			382			373			383			388			384
AVG station -N/Kft			19			18			18			19			19
AVG sfc wind Kts	14	13	14	15	14	15	14	13	14	12	11	12	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 13 33 N 144 49 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91217 13 33 N 144 49 E
Radiosonde station height: 364 Feet
Surface obs source: MS58 15 00 N 145 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	0	2	2	0	1	3	0	2	4	0	2	4	0	2
1 GHz	49	10	29	43	11	27	54	11	32	51	9	30	46	9	28
3 GHz	62	19	40	59	23	41	65	18	42	61	15	38	61	20	40
6 GHz	87	68	78	87	73	80	88	68	78	86	60	73	88	72	80
10 GHz	95	92	94	95	93	94	95	91	93	95	90	93	96	93	94
20 GHz	97	96	97	98	97	97	97	96	97	98	96	97	97	97	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	19	2	10	19	4	12	16	1	9	22	2	12	18	1	10
AVG thickness Kft			.37			.25			.44			.36			.43
AVG trap freq GHz			.60			1.1			.42			.46			.40
AVG lyr grd -N/Kft			74			70			80			69			76

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	35	40	37	53	64	59	39	44	42	11	13	12	35	39	37
AVG top ht Kft			6.3			6.7			6.6			5.9			6.0
AVG thickness Kft			.48			.60			.48			.37			.46
AVG trap freq GHz			.39			.20			.34			.65			.38
AVG lyr grd -N/Kft			59			62			59			54			60
AVG lyr base Kft			5.9			6.3			6.2			5.6			5.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	1	2	3	2	2	2	1	1	2	1	2
10 to 20 Feet	1	2	2	1	2	2	1	2	2	1	3	2	1	2	1
20 to 30 Feet	2	4	3	3	4	3	2	5	3	3	6	4	2	4	3
30 to 40 Feet	4	8	6	4	8	6	3	8	5	4	11	8	3	7	5
40 to 50 Feet	6	16	11	6	13	10	5	16	10	8	20	14	6	15	10
50 to 60 Feet	9	21	15	9	19	14	8	22	15	11	22	17	9	20	14
60 to 70 Feet	11	18	15	11	18	15	10	18	14	11	15	13	13	20	17
70 to 80 Feet	9	11	10	11	14	13	8	10	9	8	8	8	10	13	11
80 to 90 Feet	8	6	7	9	8	8	7	5	6	6	4	5	10	7	9
90 to 100 Feet	5	3	4	7	4	5	5	2	3	4	2	3	6	3	4
above 100 Feet	42	9	25	37	9	23	48	10	29	42	8	25	38	8	23
Mean height Feet	107	64	86	101	66	83	115	65	90	109	61	85	102	65	84

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			6			2			1			2
% occur 2+ EL dcts			9			13			11			1			11
AVG station N			379			372			378			384			382
AVG station -N/Kft			20			19			20			20			20
AVG sfc wind Kts	14	13	13	16	15	15	13	12	13	11	11	11	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 N 135 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91413 9 28 N 138 04 E
Radiosonde station height: 56 Feet
Surface obs source: MS59 15 00 N 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	1	3	4	1	2	4	1	3	4	1	3	4	2	3
1 GHz	48	13	31	45	12	29	57	15	36	45	11	28	45	15	30
3 GHz	61	24	42	60	25	43	67	24	45	55	19	37	60	27	43
6 GHz	86	68	77	86	72	79	88	67	77	83	62	73	86	72	79
10 GHz	95	92	93	95	93	94	95	91	93	95	91	93	94	93	94
20 GHz	97	96	97	97	97	97	97	96	96	98	96	97	97	97	97

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	26	9	17	25	6	16	25	7	16	26	10	18	28	11	20
AVG thickness Kft			.27			.25			.31			.27			.26
AVG trap freq GHz			.71			.65			.61			.78			.81
AVG lyr grd -N/Kft			101			89			105			122			86

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	25	23	24	39	38	39	24	19	22	13	8	11	23	27	25
AVG top ht Kft			5.7			6.4			6.8			3.5			6.1
AVG thickness Kft			.46			.53			.44			.46			.42
AVG trap freq GHz			.32			.24			.33			.36			.36
AVG lyr grd -N/Kft			59			61			61			56			57
AVG lyr base Kft			5.4			6.0			6.5			3.1			5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	1	2	3	1	2	2	1	2	2	2	2
10 to 20 Feet	1	3	2	1	2	2	1	3	2	2	4	3	2	2	2
20 to 30 Feet	3	5	4	3	4	3	2	6	4	4	6	5	3	4	4
30 to 40 Feet	4	9	7	4	8	6	4	9	6	6	11	8	5	8	6
40 to 50 Feet	8	17	12	7	14	11	6	17	11	10	20	15	7	15	11
50 to 60 Feet	10	20	15	10	19	14	8	20	14	13	22	17	10	20	15
60 to 70 Feet	11	17	14	11	18	14	10	16	13	12	16	14	12	18	15
70 to 80 Feet	9	11	10	11	13	12	6	9	8	9	9	9	10	11	11
80 to 90 Feet	7	6	7	9	8	8	6	5	5	5	4	5	8	7	8
90 to 100 Feet	5	3	4	6	5	5	4	3	3	4	2	3	6	4	5
above 100 Feet	39	9	24	36	9	22	49	12	30	35	6	21	35	9	22
Mean height Feet	103	63	83	98	65	82	118	66	92	100	58	79	98	64	81

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			6			2			2			2
% occur 2+ EL dcts			6			11			4			1			6
AVG station N			385			380			396			386			387
AVG station -N/Kft			20			19			20			20			20
AVG sfc wind Kts	14	13	14	16	16	16	12	11	11	12	12	12	16	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 18 10 N 120 31 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 98223 18 10 N 120 31 E
Radiosonde station height: 13 Feet
Surface obs source: MS60 15 00 N 125 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	1	0	1	3	0	1	3	0	2	3	0	1
1 GHz	43	12	28	38	11	24	51	15	33	45	11	28	41	11	26
3 GHz	55	21	38	51	23	37	60	22	41	55	17	36	54	22	38
6 GHz	81	64	72	80	68	74	82	62	72	81	68	70	81	66	74
10 GHz	93	89	91	92	91	92	92	87	90	94	87	90	93	89	91
20 GHz	96	95	95	95	95	95	95	94	94	97	94	96	96	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	0	7	6	0	3	14	0	7	20	0	10	17	0	9
AVG thickness Kft			.34			.38			.35			.28			.36
AVG trap freq GHz			.50			.36			.42			.66			.57
AVG lyr grd -N/Kft			142			141			197			124			107

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	0	2	8	0	4	2	0	1	3	0	2	6	0	3
AVG top ht Kft			6.7			6.5			7.4			6.2			6.8
AVG thickness Kft			.52			.43			.90			.27			.47
AVG trap freq GHz			.89			.89			.16			2.1			.42
AVG lyr grd -N/Kft			63			53			74			58			68
AVG lyr base Kft			6.4			6.1			6.9			6.0			6.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	3	2	3	3	2	3	2	2	2	3	3	3
10 to 20 Feet	2	4	3	2	3	2	2	4	3	2	4	3	2	3	2
20 to 30 Feet	3	6	5	3	4	4	3	6	5	4	7	6	4	6	5
30 to 40 Feet	5	9	7	5	8	7	5	10	7	6	9	8	5	9	7
40 to 50 Feet	8	16	12	9	15	11	7	15	11	10	18	14	8	14	11
50 to 60 Feet	10	18	14	10	18	14	9	18	13	12	20	16	10	17	14
60 to 70 Feet	11	15	13	11	15	13	9	14	12	11	15	13	11	16	14
70 to 80 Feet	9	10	9	10	12	11	7	8	7	8	8	8	9	11	10
80 to 90 Feet	6	6	6	8	7	8	5	5	5	5	4	5	8	8	8
90 to 100 Feet	4	3	4	6	4	5	4	2	3	3	2	3	5	4	5
above 100 Feet	38	12	25	35	11	23	45	15	30	37	11	24	34	11	22
Mean height Feet	101	66	83	96	67	82	112	68	90	101	63	82	95	65	80

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			:			1			0			2			2
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			378			360			384			387			381
AVG station -N/Kft			18			15			18			19			18
AVG sfc wind Kts	14	13	13	16	15	16	11	10	11	12	11	12	15	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 10 18 N 123 58 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 98646 10 18 N 123 58 E
Radiosonde station height: 30 Feet
Surface obs source: MS60 15 00 N 125 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	*	*	*	2	0	1	0	0	0	1	0	0
1 GHz	41	12	27	*	*	*	49	15	32	38	11	24	36	11	23
3 GHz	51	20	36	*	*	*	58	22	40	47	17	32	49	22	35
6 GHz	79	63	71	*	*	*	81	62	71	77	60	68	79	66	73
10 GHz	92	88	90	*	*	*	92	87	89	92	87	90	92	89	90
20 GHz	95	94	95	*	*	*	94	94	94	96	94	95	95	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	0	3	0	0	0	13	0	7	4	0	2	5	0	3
AVG thickness Kft			.17			*			.20			.11			.20
AVG trap freq GHz			2.9			*			1.1			6.8			.70
AVG lyr grd -N/Kft			98			*			70			*			127

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	0	4	14	0	7	7	0	4	3	0	2	10	0	5
AVG top ht Kft			12			7.9			*			19			9.0
AVG thickness Kft			.50			.48			.92			.14			.45
AVG trap freq GHz			1.1			1.2			.09			1.6			1.5
AVG lyr grd -N/Kft			66			57			*			72			67
AVG lyr base Kft			11			7.4			7.6			18			8.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	3	2	3	3	2	3	2	2	2	3	3	3
10 to 20 Feet	2	4	3	2	3	2	2	4	3	2	4	3	2	3	2
20 to 30 Feet	3	6	5	3	4	4	3	6	5	4	7	6	4	6	5
30 to 40 Feet	5	9	7	5	8	7	5	10	7	6	9	8	5	9	7
40 to 50 Feet	8	16	12	8	15	11	7	15	11	10	18	14	8	14	11
50 to 60 Feet	10	18	14	10	18	14	9	18	13	12	20	16	10	17	14
60 to 70 Feet	11	15	13	11	15	13	9	14	12	11	15	13	11	16	14
70 to 80 Feet	9	10	9	10	12	11	7	8	7	8	8	8	9	11	10
80 to 90 Feet	6	6	6	8	7	8	5	5	5	5	4	5	8	8	8
90 to 100 Feet	4	3	4	6	4	5	4	2	3	3	2	3	5	4	5
above 100 Feet	38	12	25	35	11	23	45	15	30	37	11	24	34	11	22
Mean height Feet	101	56	83	96	67	82	112	68	90	101	63	82	95	65	80

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			8			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			383			376			388			384			385
AVG station -N/Kft			18			16			19			19			18
AVG sfc wind Kts	14	13	13	16	15	16	11	10	11	12	11	12	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 16 49 N 112 19 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 59981 16 49 N 112 19 E
Radiosonde station height: 52 Feet
Surface obs source: MS61 15 00 N 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESP COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	2	2	3	1	2	3	3	3	3	2	3	2	1	1
1 GHz	41	19	30	41	18	29	51	27	39	40	19	30	31	14	23
3 GHz	52	30	41	52	28	40	61	36	48	52	30	41	46	27	36
6 GHz	80	68	74	78	66	72	83	71	77	79	68	74	78	68	73
10 GHz	92	90	91	91	89	90	94	90	92	93	90	91	92	89	91
20 GHz	96	95	95	95	94	94	96	96	96	96	96	96	95	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	18	13	16	18	9	13	19	17	18	25	20	23	10	7	9
AVG thickness Kft			.27			.32			.24			.18			.33
AVG trap freq GHz			.68			.51			.53			1.1			.57
AVG lyr grd -N/Kft			225			189			168			306			238

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	6	6	12	13	13	5	4	5	4	2	3	6	3	5
AVG top ht Kft			5.2			6.8			3.6			3.6			7.0
AVG thickness Kft			.51			.41			.52			.72			.36
AVG trap freq GHz			.43			.52			.48			.19			.52
AVG lyr grd -N/Kft			56			53			52			65			54
AVG lyr base Kft			4.8			6.4			3.1			3.1			6.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	3	3	4	4	4	3	2	2	3	2	2	3	3	3
10 to 20 Feet	2	3	3	2	3	3	2	3	2	2	3	3	2	3	2
20 to 30 Feet	4	6	5	4	6	5	3	6	5	4	7	6	4	5	5
30 to 40 Feet	6	9	8	6	10	8	5	9	7	6	10	8	6	9	8
40 to 50 Feet	9	15	12	9	15	12	7	14	11	10	16	13	9	13	11
50 to 60 Feet	11	17	14	11	17	14	10	17	13	12	19	15	12	17	14
60 to 70 Feet	11	15	13	11	14	12	10	14	12	12	16	14	13	16	14
70 to 80 Feet	9	10	9	9	11	10	7	8	8	9	9	9	11	12	11
80 to 90 Feet	6	6	6	6	6	6	5	5	5	6	5	5	8	8	8
90 to 100 Feet	4	3	4	4	4	4	3	3	3	4	3	3	6	4	5
above 100 Feet	34	13	23	33	13	23	45	17	31	32	11	21	27	10	18
Mean height Feet	95	67	81	93	66	80	111	73	92	92	64	78	86	64	75

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			1			0			0			0
% occur 2+ EL dcts			0			1			0			0			0
AVG station N			378			365			386			396			371
AVG station -N/Kft			18			16			20			20			17
AVG sfc wind Kts	14	14	14	15	14	14	11	10	11	14	13	13	18	17	17

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 13 43 N 100 30 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 48455 13 43 N 100 30 E
Radiosonde station height: 52 Feet
Surface obs source: MS63 15 00 N 95 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	3	3	3	4	3	3	2	3	3	2	3	2	2	2
1 GHz	37	25	31	45	32	38	36	31	33	25	14	19	41	22	31
3 GHz	46	32	39	54	40	47	45	38	42	35	20	28	51	32	41
6 GHz	74	63	69	76	68	72	74	67	71	68	55	62	78	63	70
10 GHz	90	87	89	90	88	89	90	87	88	91	88	89	91	86	88
20 GHz	95	94	95	96	95	95	95	95	95	96	95	95	95	93	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	18	19	16	21	19	23	19	21	26	16	21	15	15	15
AVG thickness Kft			.30			.40			.27			.20			.31
AVG trap freq GHz			.78			.47			.91			1.1			.68
AVG lyr grd -N/Kft			124			132			109			124			130

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	13	7	10	26	12	19	11	5	8	3	3	3	10	8	9
AVG top ht Kft			4.5			6.0			3.6			2.8			5.6
AVG thickness Kft			.45			.47			.57			.33			.41
AVG trap freq GHz			.57			.39			.28			.92			.68
AVG lyr grd -N/Kft			56			56			60			51			57
AVG lyr base Kft			4.1			5.6			3.2			2.5			5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	1	1	1	2	2	2	3	2	3	3	3	3
10 to 20 Feet	3	5	4	3	5	4	3	4	4	3	4	4	3	6	4
20 to 30 Feet	6	8	7	7	8	7	6	9	8	6	8	7	5	9	7
30 to 40 Feet	8	11	9	8	11	9	8	9	8	10	14	12	5	10	8
40 to 50 Feet	12	17	15	9	14	12	11	14	13	17	24	21	10	16	13
50 to 60 Feet	13	17	15	10	15	13	14	15	15	17	20	18	12	17	14
60 to 70 Feet	11	11	11	8	10	9	12	11	12	13	13	13	10	10	10
70 to 80 Feet	8	7	7	7	8	7	7	7	7	9	5	7	9	7	8
80 to 90 Feet	5	4	4	5	4	4	5	3	4	4	3	4	6	5	5
90 to 100 Feet	3	2	3	4	2	3	3	2	2	2	1	2	4	3	4
above 100 Feet	29	16	22	38	20	29	27	24	25	14	6	10	35	15	25
Mean height Feet	87	68	78	100	75	87	85	80	82	64	53	61	95	66	81

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			2			1			0			2
% occur 2+ EL dcts			1			2			1			0			1
AVG station N			381			375			387			385			375
AVG station -N/Kft			19			20			20			19			18
AVG sfc wind Kts	10	9.4	10	7.2	7.1	7.2	10	9.1	9.4	13	13	13	10	8.6	9.1

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 16 01 N 108 10 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 48855 16 01 N 108 10 E
Radiosonde station height: 20 Feet
Surface obs source: MS61 15 00 N 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	2	2	1	1	1	5	3	4	3	3	3	1	3	2
1 GHz	40	21	30	35	17	26	56	26	41	39	21	30	30	19	25
3 GHz	52	32	42	46	28	37	66	36	51	51	32	42	44	32	38
6 GHz	79	69	74	75	67	71	86	71	79	79	69	74	77	71	74
10 GHz	92	90	91	90	89	89	95	90	93	93	90	92	91	90	91
20 GHz	96	95	95	94	94	94	97	96	96	96	96	96	95	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	18	17	18	6	11	9	36	18	27	24	25	25	6	15	11
AVG thickness Kft			.33			.37			.31			.21			.45
AVG trap freq GHz			.90			1.2			.72			1.2			.43
AVG lyr grd -N/Kft			123			146			132			100			113

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	26	23	25	46	39	43	18	9	14	7	14	11	33	31	32
AVG top ht Kft			6.8			6.4			6.6			7.0			7.0
AVG thickness Kft			.46			.52			.40			.31			.59
AVG trap freq GHz			.55			.28			1.0			.70			.26
AVG lyr grd -N/Kft			53			66			68			56			62
AVG lyr base Kft			6.5			6.1			6.3			6.8			6.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	3	3	4	4	4	3	2	2	3	2	2	3	3	3
10 to 20 Feet	2	3	3	2	3	3	2	3	2	2	3	3	2	3	2
20 to 30 Feet	4	6	5	4	6	5	3	6	5	4	7	6	4	5	5
30 to 40 Feet	6	9	8	6	10	8	5	9	7	6	10	8	6	9	8
40 to 50 Feet	9	15	12	9	15	12	7	14	11	10	16	13	9	13	11
50 to 60 Feet	11	17	14	11	17	14	10	17	13	12	19	15	12	17	14
60 to 70 Feet	11	15	13	11	14	12	10	14	12	12	16	14	13	16	14
70 to 80 Feet	9	10	9	9	11	10	7	8	8	9	9	9	11	12	11
80 to 90 Feet	6	6	6	6	6	6	5	5	5	6	5	5	8	8	8
90 to 100 Feet	4	3	4	4	4	4	3	3	3	4	3	3	6	4	5
above 100 Feet	34	13	23	33	13	23	45	17	31	32	11	21	27	10	18
Mean height Feet	95	67	81	93	66	80	111	73	92	92	64	78	86	64	75

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			3			3			1			2
% occur 2+ EL dcts			5			11			3			1			7
AVG station N			378			368			384			386			373
AVG station -N/Kft			19			17			21			21			17
AVG sfc wind Kts	14	14	14	15	14	14	11	10	11	14	13	13	18	17	17

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 11 40 N 92 43 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 43333 11 40 N 92 43 E
Radiosonde station height: 259 Feet
Surface obs source: MS63 15 00 N 95 00 E

PERCENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	0	1	2	2	2	1	0	1	1	0	0
1 GHz	32	18	25	42	21	32	31	29	30	18	8	13	36	15	26
3 GHz	40	24	32	51	28	40	38	35	37	25	12	18	46	23	35
6 GHz	71	58	64	74	61	67	70	65	67	62	49	56	76	58	67
10 GHz	89	85	87	89	86	88	88	86	87	89	86	87	90	83	87
20 GHz	95	93	94	96	93	94	94	94	94	95	94	94	95	92	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	4	6	12	3	8	7	9	8	6	2	4	7	2	5
AVG thickness Kft			.52			.43			.73			.77			.14
AVG trap freq GHz			1.1			1.3			.28			.46			2.5
AVG lyr grd -N/Kft			148			142			125			125			200

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	10	9	9	16	14	15	10	13	12	5	3	4	8	5	7
AVG top ht Kft			7.8			4.5			9.0			11			6.4
AVG thickness Kft			.77			.62			.57			1.0			.90
AVG trap freq GHz			.28			.19			.23			.51			.17
AVG lyr grd -N/Kft			82			61			67			131			76
AVG lyr base Kft			7.4			4.0			8.7			11			5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	1	1	1	2	2	2	3	2	3	3	3	3
10 to 20 Feet	3	5	4	3	5	4	3	4	4	3	4	4	3	6	4
20 to 30 Feet	6	8	7	7	8	7	6	9	8	6	8	7	5	9	7
30 to 40 Feet	8	11	9	8	11	9	8	9	8	10	14	12	5	10	8
40 to 50 Feet	12	17	15	9	14	12	11	14	13	17	24	21	10	16	13
50 to 60 Feet	13	17	15	10	15	13	14	15	15	17	20	18	12	17	14
60 to 70 Feet	11	11	11	8	10	9	12	11	12	13	13	13	10	10	10
70 to 80 Feet	8	7	7	7	8	7	7	7	7	9	5	7	9	7	8
80 to 90 Feet	5	4	4	5	4	4	5	3	4	4	3	4	6	5	5
90 to 100 Feet	3	2	3	4	2	3	3	2	2	2	1	2	4	3	4
above 100 Feet	29	16	22	38	20	29	27	24	25	14	6	10	35	15	25
Mean height Feet	87	68	78	100	75	87	85	80	82	69	53	61	95	66	81

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			1			0			0			0
% occur 2+ EL dcts			1			3			0			0			0
AVG station N			379			371			384			382			378
AVG station -N/Kft			19			19			19			19			18
AVG sfc wind Kts	10	9.4	10	7.2	7.1	7.2	10	9.1	9.4	13	13	13	10	8.5	9.1

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 13 00 N 80 10 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 43279 13 00 N 80 10 E
Radiosonde station height: 52 Feet
Surface obs source: MS64 15 00 N 85 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	3	2	3	4	3	3	3	3	1	2	1	2	2	2
1 GHz	42	22	32	54	24	39	43	22	33	26	18	22	47	24	35
3 GHz	53	33	43	63	33	48	55	33	44	35	28	31	58	36	47
6 GHz	78	66	72	82	62	72	80	69	75	69	65	67	81	70	76
10 GHz	91	88	90	91	86	88	92	89	91	89	89	89	93	90	91
20 GHz	95	95	95	95	94	94	96	95	96	94	95	95	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	20	18	20	21	21	22	22	22	6	22	14	14	16	15
AVG thickness Kft			.32			.50			.27			.14			.40
AVG trap freq GHz			1.0			.53			.82			1.8			.88
AVG lyr grd -N/Kft			157			152			155			149			172

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	14	12	15	26	21	5	16	11	6	3	5	10	11	11
AVG top ht Kft			4.8			3.3			4.6			6.1			5.2
AVG thickness Kft			.67			.72			.64			.84			.47
AVG trap freq GHz			.29			.21			.23			.27			.44
AVG lyr grd -N/Kft			66			59			62			85			59
AVG lyr base Kft			4.4			2.8			4.2			5.7			4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUPRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	3	3	3	2	3	4	3	3	3	3	3	3	3	3
10 to 20 Feet	2	4	3	3	6	4	2	4	3	3	3	3	1	3	2
20 to 30 Feet	5	8	6	5	10	7	5	8	6	6	7	7	4	7	5
30 to 40 Feet	6	10	8	5	13	9	5	9	7	8	11	9	5	9	7
40 to 50 Feet	9	16	12	6	17	11	9	16	12	13	18	15	7	14	11
50 to 60 Feet	10	16	13	9	16	12	10	16	13	14	17	15	8	14	11
60 to 70 Feet	10	14	12	7	11	9	11	17	14	14	16	15	9	14	11
70 to 80 Feet	8	9	8	7	8	7	9	9	9	8	8	8	8	10	9
80 to 90 Feet	6	5	5	5	4	4	6	5	6	5	4	5	7	6	6
90 to 100 Feet	4	3	4	4	3	3	5	3	4	3	2	3	4	4	4
above 100 Feet	37	13	25	47	12	29	35	12	24	25	10	17	42	17	30
Mean height Feet	99	65	82	112	62	87	96	65	80	81	62	72	106	72	89

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			2			2			0			0
% occur 2+ EL dcts			1			2			1			0			1
AVG station N			376			368			382			378			375
AVG station -N/Kft			21			23			22			19			19
AVG sfc wind Kts	12	11	11	8.1	8.0	8.0	12	12	12	15	13	14	11	11	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 17 43 N 83 16 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 43149 17 43 N 83 16 E
Radiosonde station height: 135 Feet
Surface obs source: MS64 15 00 N 85 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	2	2	6	5	5	3	2	3	0	0	0	2	1	1
1 GHz	44	19	32	59	28	44	43	19	31	26	11	18	48	19	34
3 GHz	55	29	42	69	38	54	55	29	42	34	18	26	60	30	45
6 GHz	79	64	72	85	65	75	80	66	73	69	59	64	82	67	75
10 GHz	92	88	90	93	87	90	92	88	90	89	87	88	93	89	91
20 GHz	96	95	95	96	94	95	96	95	95	94	94	94	96	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	12	17	37	28	33	20	13	17	4	2	3	22	6	14
AVG thickness Kft			.49			.31			.80			.51			.33
AVG trap freq GHz			1.1			.54			.55			1.9			1.5
AVG lyr grd -N/Kft			195			183			147			179			274

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	11	9	9	17	13	8	15	12	6	4	5	5	7	6
AVG top ht Kft			6.6			4.2			5.2			11			5.5
AVG thickness Kft			.64			.61			.87			.61			.49
AVG trap freq GHz			.26			.37			.20			.17			.30
AVG lyr grd -N/Kft			93			59			64			185			63
AVG lyr base Kft			6.2			3.8			4.6			11			5.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
6 to 10 Feet	3	3	3	3	2	3	4	3	3	3	3	3	3	3	3
10 to 20 Feet	2	4	3	3	6	4	2	4	3	3	3	3	1	3	2
20 to 30 Feet	5	8	6	5	10	7	5	8	6	6	7	7	4	7	5
30 to 40 Feet	6	10	8	5	13	9	5	9	7	8	11	9	5	9	7
40 to 50 Feet	9	16	12	6	17	11	9	16	12	13	18	15	7	14	11
50 to 60 Feet	10	16	13	9	16	12	10	16	13	14	17	15	8	14	11
60 to 70 Feet	10	14	12	7	11	9	11	17	14	14	16	15	9	14	11
70 to 80 Feet	8	9	8	7	8	7	9	9	9	8	8	8	8	10	9
80 to 90 Feet	6	5	5	5	4	4	6	5	6	5	4	5	7	6	6
90 to 100 Feet	4	3	4	4	3	3	5	3	4	3	2	3	4	4	4
above 100 Feet	37	13	25	47	12	29	35	12	24	25	10	17	42	17	30
Mean height Feet	99	65	82	112	62	87	96	65	80	81	62	72	106	72	89

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			1			0			0			1
% occur 2+ EL dcts			1			1			2			0			0
AVG station N			379			369			391			387			367
AVG station -N/Kft			22			23			25			20			19
AVG sfc wind Kts	12	11	11	8.1	8.0	8.0	12	12	12	15	13	14	11	11	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 19 07 N 72 51 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 43003 19 07 N 72 51 E
Radiosonde station height: 46 Feet
Surface obs source: MS65 15 00 N 75 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	3	3	6	4	5	4	3	3	1	1	1	4	4	4
1 GHz	54	23	39	65	29	47	56	21	39	34	11	23	61	32	47
3 GHz	65	32	48	74	38	56	68	32	50	46	19	32	70	40	55
6 GHz	84	67	75	90	69	80	87	72	80	72	59	66	85	68	76
10 GHz	94	89	91	97	89	93	96	92	94	88	86	87	94	88	91
20 GHz	96	95	96	99	96	97	98	97	97	93	93	93	96	94	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	24	20	22	31	24	28	32	21	27	12	9	11	21	24	23
AVG thickness Kft			.36			.35			.38			.34			.38
AVG trap freq GHz			.86			.48			1.0			1.5			.47
AVG lyr grd -N/Kft			151			149			155			149			152

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	10	18	14	10	16	13	16	24	20	6	13	10	9	18	14
AVG top ht Kft			5.7			3.0			4.3			9.2			6.2
AVG thickness Kft			.57			.56			.71			.49			.53
AVG trap freq GHz			.25			.21			.18			.29			.34
AVG lyr grd -N/Kft			67			67			65			73			61
AVG lyr base Kft			5.3			2.6			3.8			8.9			5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	2	1	1	2	1	2	5	4	4	4	2	3
10 to 20 Feet	1	5	3	1	6	3	1	3	2	2	5	3	1	6	4
20 to 30 Feet	4	8	6	3	8	5	3	6	5	6	8	7	3	8	5
30 to 40 Feet	5	10	8	4	11	7	4	8	6	7	12	10	4	11	8
40 to 50 Feet	7	16	11	6	15	10	7	15	11	10	17	13	7	15	11
50 to 60 Feet	8	17	12	7	17	12	8	18	13	9	17	13	8	14	11
60 to 70 Feet	8	14	11	7	13	10	8	15	12	11	16	13	6	11	8
70 to 80 Feet	7	10	8	7	9	8	7	12	10	8	9	8	4	9	7
80 to 90 Feet	6	4	5	6	4	5	7	5	6	6	5	5	5	3	4
90 to 100 Feet	4	2	3	4	2	3	4	3	4	5	2	3	4	2	3
above 100 Feet	47	13	30	55	15	35	47	12	30	31	7	19	55	19	37
Mean height Feet	114	66	90	126	67	97	115	68	92	88	57	73	125	73	99

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			1			3			1			3
% occur 2+ EL dcts			2			1			5			0			2
AVG station N			368			345			382			386			358
AVG station -N/Kft			20			19			24			20			19
AVG sfc wind Kts	11	10	10	7.8	8.0	7.9	11	11	11	15	14	14	8.4	7.5	8.0

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 28 N 73 49 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 43192 15 28 N 73 49 E
Radiosonde station height: 197 Feet
Surface obs source: MS65 15 00 N 75 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	4	3	4	5	4	1	2	1	*	*	*	2	5	4
1 GHz	57	28	42	63	31	47	50	18	34	*	*	*	59	35	47
3 GHz	67	38	53	73	43	58	61	27	44	*	*	*	67	44	55
6 GHz	86	71	78	90	72	81	84	70	77	*	*	*	84	70	77
10 GHz	95	90	92	97	91	94	94	91	93	*	*	*	93	89	91
20 GHz	97	96	96	99	96	97	97	97	97	*	*	*	95	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	21	17	35	40	38	7	11	9	0	0	0	14	31	23
AVG thickness Kft			.49			.36			.45			*			.67
AVG trap freq GHz			.85			1.2			.76			*			.57
AVG lwr grd -N/Kft			128			109			155			*			119

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	20	17	21	33	27	19	24	22	5	11	8	9	13	11
AVG top ht Kft			5.7			2.4			5.0			9.4			6.1
AVG thickness Kft			.84			.74			1.5			.72			.41
AVG trap freq GHz			.26			.20			.06			.24			.53
AVG lyr grd -N/Kft			65			58			74			62			70
AVG lwr base Kft			5.2			1.9			4.1			8.9			5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	2	1	1	2	1	2	5	4	4	4	2	3
10 to 20 Feet	1	5	3	1	6	3	1	3	2	2	5	3	1	6	4
20 to 30 Feet	4	8	5	3	8	5	3	6	5	5	8	7	3	8	5
30 to 40 Feet	5	10	8	4	11	7	4	8	6	7	12	10	4	11	8
40 to 50 Feet	7	16	11	6	15	10	7	15	11	10	17	13	7	15	11
50 to 60 Feet	8	17	12	7	17	12	8	18	13	9	17	13	8	14	11
60 to 70 Feet	8	14	11	7	13	10	8	15	12	11	16	13	6	11	8
70 to 80 Feet	7	10	8	7	9	8	7	12	10	8	9	8	4	9	7
80 to 90 Feet	6	4	5	6	4	5	7	5	6	6	5	5	5	3	4
90 to 100 Feet	4	2	3	4	2	3	4	3	4	5	2	3	4	2	3
above 100 Feet	47	13	30	55	15	35	47	12	30	31	7	19	55	19	37
Mean height Feet	114	66	90	126	67	97	115	68	92	88	57	73	125	73	99

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			5			1			0			1
% occur 2+ EL dcts			1			2			1			1			0
AVG station N			372			363			382			384			360
AVG station -N/Kft			22			27			20			19			20
AVG sfc wind Kts	11	10	10	7.8	8.0	7.9	11	11	11	15	14	14	8.4	7.5	8.0

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 N 65 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 40564 20 40 N 58 54 E
Radiosonde station height: 39 Feet
Surface obs source: hS66 15 00 N 65 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	7	10	9	5	6	5	12	22	17	5	5	5	6	8	7
1 GHz	52	39	46	52	29	40	63	67	65	36	24	30	59	38	49
3 GHz	65	50	57	64	38	51	73	75	74	52	36	44	70	51	60
6 GHz	87	78	82	87	73	80	91	89	90	81	70	75	89	79	84
10 GHz	95	92	94	95	91	93	97	96	96	92	90	91	96	93	94
20 GHz	97	96	97	98	95	97	98	98	98	95	95	95	98	97	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	28	40	34	21	23	22	36	68	52	26	30	28	28	38	33
AVG thickness Kft			.74			.66			.93			.82			.56
AVG trap freq GHz			.31			.26			.18			.47			.33
AVG lyr grd -N/Kft			133			138			133			131			129

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	45	43	48	50	49	36	30	33	39	53	46	40	46	43
AVG top ht Kft			2.6			3.1			2.3			2.2			3.0
AVG thickness Kft			.87			.73			1.1			.89			.75
AVG trap freq GHz			.13			.16			.08			.10			.17
AVG lyr grd -N/Kft			65			67			66			65			63
AVG lyr base Kft			2.1			2.6			1.6			1.6			2.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	2	1	2	2	1	2	5	4	4	2	1	2
10 to 20 Feet	1	4	3	2	4	3	1	4	3	2	3	3	1	4	2
20 to 30 Feet	3	6	5	3	6	5	3	6	4	4	7	5	3	6	5
30 to 40 Feet	4	9	7	4	8	6	4	9	6	5	11	8	3	8	6
40 to 50 Feet	6	15	11	6	15	11	5	14	10	9	16	12	6	15	10
50 to 60 Feet	10	18	14	10	18	14	8	17	13	11	18	15	9	18	13
60 to 70 Feet	11	15	13	10	15	12	10	15	13	13	15	14	9	13	11
70 to 80 Feet	10	11	10	9	11	10	9	12	10	12	11	12	8	11	9
80 to 90 Feet	8	6	7	8	6	7	8	7	8	9	6	7	7	6	6
90 to 100 Feet	6	4	5	6	3	4	6	4	5	6	4	5	5	5	5
above 100 Feet	39	10	24	41	12	27	44	11	27	23	4	14	47	13	30
Mean height Feet	103	64	84	107	66	87	110	66	88	81	56	69	114	68	91

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			5			4			5			6			5
% occur 2+ EL dcts			4			4			3			5			4
AVG station N			362			348			373			370			356
AVG station -N/Kft			25			20			30			27			23
AVG sfc wind Kts	13	13	13	10	10	10	14	13	14	20	19	20	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 N 55 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 40564 20 40 N 58 54 E
Radiosonde station height: 39 Feet
Surface obs source: MS67 15 00 N 55 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	7	10	9	5	6	5	12	22	17	5	5	5	6	8	7
1 GHz	50	39	44	56	29	42	58	66	62	29	24	26	56	38	48
3 GHz	59	48	54	65	38	52	66	73	70	38	31	34	68	49	58
6 GHz	78	69	74	86	68	77	84	85	84	58	50	54	86	73	80
10 GHz	89	85	87	94	88	91	92	94	93	75	72	73	94	89	91
20 GHz	92	91	92	97	93	95	94	97	95	81	82	82	97	94	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	28	40	34	21	23	22	36	66	52	26	30	28	28	38	33
AVG thickness Kft			.74			.66			.93			.82			.56
AVG trap freq GHz			.31			.26			.18			.47			.33
AVG lyr grd -N/Kft			133			138			133			131			129

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	45	43	48	50	49	36	30	33	39	53	46	40	46	43
AVG top ht Kft			2.6			3.1			2.3			2.2			3.0
AVG thickness Kft			.87			.73			1.1			.89			.75
AVG trap freq GHz			.13			.16			.08			.10			.17
AVG lyr grd -N/Kft			65			67			66			65			63
AVG lyr base Kft			2.1			2.6			1.6			1.6			2.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	7	2	2	2	5	4	5	18	17	18	3	2	2
10 to 20 Feet	4	8	6	2	7	4	4	7	5	7	10	8	3	8	5
20 to 30 Feet	5	9	7	4	7	5	4	9	7	9	14	11	4	8	6
30 to 40 Feet	6	11	9	4	10	7	5	11	8	11	15	13	4	9	7
40 to 50 Feet	8	15	12	7	16	11	7	15	11	12	15	14	6	15	11
50 to 60 Feet	9	15	12	9	18	13	9	16	13	10	12	11	8	15	11
60 to 70 Feet	9	11	10	9	13	11	9	13	11	8	6	7	9	13	11
70 to 80 Feet	7	8	7	7	9	8	8	9	9	6	4	5	8	9	8
80 to 90 Feet	5	4	5	6	5	5	6	5	5	4	2	3	6	6	6
90 to 100 Feet	4	3	3	4	3	4	5	2	4	2	1	2	4	4	4
above 100 Feet	36	9	22	46	12	29	37	9	23	13	4	9	46	12	29
Mean height Feet	94	56	75	113	63	88	99	59	79	55	39	47	111	64	87

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			5			4			5			6			5
% occur 2+ EL dcts			4			4			3			5			4
AVG station M			362			348			373			370			356
AVG station -M/Kft			25			20			30			27			23
AVG sfc wind Kts	14	13	14	10	10	10	14	14	14	21	21	21	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 13 22 N 45 03 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 40597 13 22 N 45 03 E
Radiosonde station height: 10 Feet
Surface obs source: MS68 15 00 N 45 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	5	4	2	2	2	8	8	8	2	6	4	2	4	3
1 GHz	60	37	49	49	17	33	72	49	60	66	51	58	55	31	43
3 GHz	70	48	59	61	27	44	79	59	69	72	61	67	66	44	55
6 GHz	86	73	79	83	61	72	90	77	83	83	77	80	89	75	82
10 GHz	93	88	91	92	86	89	95	89	92	89	89	89	95	90	93
20 GHz	95	94	95	95	93	94	97	93	95	92	94	93	98	95	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	31	26	16	13	15	43	45	44	14	39	27	11	26	19
AVG thickness Kft			.48			.40			.61			.49			.42
AVG trap freq GHz			.73			1.1			.49			.69			.61
AVG lyr grd -N/Kft			143			119			119			118			219

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	31	34	33	42	56	49	40	31	36	11	19	15	31	30	31
AVG top ht Kft			3.0			3.6			2.3			3.4			2.8
AVG thickness Kft			.62			.62			.75			.60			.52
AVG trap freq GHz			.26			.26			.14			.38			.28
AVG lyr grd -N/Kft			62			62			68			56			61
AVG lyr base Kft			2.6			3.2			1.8			2.9			2.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	4	4	4	4	3	3	4	4	4	8	6	7	2	2	2
10 to 20 Feet	2	5	3	2	5	3	2	7	4	2	4	3	2	5	3
20 to 30 Feet	3	7	5	3	8	6	3	8	5	3	7	5	2	7	5
30 to 40 Feet	3	9	6	4	10	7	3	9	6	3	8	5	3	8	5
40 to 50 Feet	5	12	9	7	17	12	5	11	8	4	10	7	5	11	8
50 to 60 Feet	6	13	10	8	17	12	6	12	9	4	10	7	7	15	11
60 to 70 Feet	6	10	8	8	12	10	5	8	7	4	7	5	8	13	11
70 to 80 Feet	7	7	7	8	9	8	6	6	6	4	5	4	9	11	10
80 to 90 Feet	5	5	5	6	5	5	4	3	4	3	4	4	6	7	6
90 to 100 Feet	4	3	4	5	3	4	3	3	3	3	3	3	6	4	5
above 100 Feet	55	23	39	45	12	28	60	27	43	63	37	50	52	18	35
Mean height Feet	122	79	100	108	63	86	131	82	107	133	96	114	117	73	95

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			2			7			3			3
% occur 2+ EL dcts			5			7			9			1			2
AVG station N			371			360			386			375			363
AVG station -N/Kft			22			19			27			20			20
AVG sfc wind Kts	11	10	10	12	11	12	10	8.7	9.4	10	8.9	9.5	12	10	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 19 34 N 37 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 62641 19 34 N 37 13 E
Radiosonde station height: 10 Feet
Surface obs source: MS105 25 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	6	0	3	3	0	2	10	0	5	6	0	3	6	0	3
1 GHz	59	26	43	42	17	30	75	35	55	70	37	53	50	16	33
3 GHz	71	37	54	58	28	43	82	44	63	81	45	63	64	32	48
6 GHz	88	70	79	83	70	76	92	69	80	92	70	81	87	72	79
10 GHz	95	88	92	93	89	91	96	87	91	96	89	92	95	89	92
20 GHz	97	94	96	95	94	95	98	95	96	97	93	95	98	94	96

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	33	0	17	13	0	7	47	0	24	50	0	25	23	0	12
AVG thickness Kft			.41			.29			.46			.15			.73
AVG trap freq GHz			.48			.26			.37			1.1			.22
AVG lyr grd -N/Kft			246			547			154			135			147

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	0	3	9	0	5	5	0	3	0	0	0	12	0	6
AVG top ht Kft			4.3			3.5			3.3			*			6.3
AVG thickness Kft			.80			.48			.72			*			1.2
AVG trap freq GHz			.66			.72			.16			*			1.1
AVG lyr grd -N/Kft			79			56			72			*			109
AVG lyr base Kft			3.9			3.1			2.8			*			5.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	3	3	3	3	3	3	4	3	4	1	1	1
10 to 20 Feet	2	4	3	3	3	3	1	3	2	2	3	3	1	5	3
20 to 30 Feet	3	6	4	3	5	4	3	8	6	1	5	3	4	6	5
30 to 40 Feet	4	8	6	5	7	6	3	9	6	2	8	5	5	6	6
40 to 50 Feet	5	10	8	7	11	9	5	9	7	4	11	7	6	10	8
50 to 60 Feet	6	11	9	8	14	11	5	10	7	4	9	7	8	12	10
60 to 70 Feet	8	12	10	10	15	13	5	8	7	6	8	7	11	15	13
70 to 80 Feet	8	10	9	10	13	11	6	7	6	6	8	7	10	13	12
80 to 90 Feet	7	6	6	9	7	8	3	5	4	6	4	5	9	9	9
90 to 100 Feet	6	5	5	8	5	6	4	4	4	5	4	4	7	7	7
above 100 Feet	49	26	37	35	17	26	61	35	48	60	37	48	37	16	27
Mean height Feet	113	84	99	96	73	84	131	94	112	129	96	112	98	72	85

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			2			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			359			356			335			373			370
AVG station -N/Kft			21			18			21			25			20
AVG sfc wind Kts	13	11	12	14	12	13	13	11	12	13	10	12	13	11	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 20 55 N 17 01 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 61415 20 55 N 17 01 W
Radiosonde station height: 16 Feet
Surface obs source: MS74 25 00 N 15 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	7	2	4	5	0	2	7	1	4	8	8	8	6	0	3
1 GHz	43	17	30	38	9	24	44	12	28	42	33	38	50	14	32
3 GHz	53	22	37	47	13	30	52	15	34	51	41	46	61	19	40
6 GHz	73	44	58	71	38	55	72	36	54	68	55	61	81	46	64
10 GHz	89	74	81	89	74	81	89	71	80	84	76	80	92	76	84
20 GHz	93	87	90	94	88	91	93	86	90	90	87	88	96	87	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	32	11	21	24	0	12	31	6	19	36	37	37	37	0	19
AVG thickness Kft			.47			.42			.48			.53			.43
AVG trap freq GHz			.39			.40			.29			.31			.54
AVG lyr grd -N/Kft			85			90			79			79			90

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	24	9	16	24	0	12	26	8	17	33	28	31	11	0	5
AVG top ht Kft			2.3			2.5			1.6			1.8			3.2
AVG thickness Kft			.56			.47			.59			.78			.39
AVG trap freq GHz			.36			.42			.28			.17			.56
AVG lyr grd -N/Kft			57			56			56			60			58
AVG lyr base Kft			1.9			2.1			1.2			1.2			2.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	6	6	3	4	4	5	6	6	9	10	10	3	5	4
10 to 20 Feet	4	9	7	4	8	6	5	8	6	6	11	8	4	7	5
20 to 30 Feet	7	15	11	7	14	10	7	16	12	10	17	14	5	12	8
30 to 40 Feet	10	17	14	10	18	14	11	19	15	12	18	15	8	14	11
40 to 50 Feet	12	17	15	14	18	16	13	18	16	13	15	14	10	16	13
50 to 60 Feet	12	12	12	14	13	13	12	12	12	10	10	10	11	13	12
60 to 70 Feet	9	7	8	10	7	9	9	6	8	8	6	7	9	9	9
70 to 80 Feet	7	4	6	7	4	6	6	4	5	6	4	5	8	5	7
80 to 90 Feet	4	2	3	4	2	3	4	2	3	4	2	3	5	3	4
90 to 100 Feet	3	1	2	3	1	2	3	1	2	3	1	2	4	2	3
above 100 Feet	26	9	18	25	9	17	25	7	16	20	6	13	34	14	24
Mean height Feet	80	51	66	81	53	67	79	48	63	69	43	56	94	61	77

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			4			1			5			3
% occur 2+ EL dcts			1			1			1			1			0
AVG station N			343			331			343			359			340
AVG station -N/Kft			21			18			23			25			19
AVG sfc wind Kts	14	13	14	14	13	14	15	14	15	16	15	15	12	11	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 28 28 N 16 15 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 60020 28 28 N 16 15 W
Radiosonde station height: 118 Feet
Surface obs source: MS74 25 00 N 15 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0
1 GHz	28	12	20	26	13	20	28	9	18	22	11	17	35	14	25
3 GHz	35	16	26	34	17	26	35	12	23	29	14	21	44	20	32
6 GHz	62	39	50	64	41	52	61	34	48	52	33	42	71	47	59
10 GHz	84	71	77	86	75	81	84	70	77	76	64	70	88	76	82
20 GHz	91	85	88	93	88	90	91	86	88	85	80	83	94	87	91

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	4	4	3	6	5	4	3	4	4	6	5	2	1	2
AVG thickness Kft			.39			.38			.37			.42			.40
AVG trap freq GHz			.41			.55			.37			.32			.38
AVG lyr grd -N/Kft			132			159			125			119			124

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	7	7	5	8	7	4	8	6	9	6	8	7	7	7
AVG top ht Kft			4.2			4.5			4.6			3.9			3.7
AVG thickness Kft			.49			.52			.40			.48			.57
AVG trap freq GHz			.63			1.1			.67			.46			.31
AVG lyr grd -N/Kft			60			69			54			59			59
AVG lyr base Kft			3.8			4.2			4.3			3.5			3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	6	6	3	4	4	5	6	6	9	10	10	3	5	4
10 to 20 Feet	4	9	7	4	8	6	5	8	6	6	11	8	4	7	5
20 to 30 Feet	7	15	11	7	14	10	7	16	12	10	17	14	5	12	8
30 to 40 Feet	10	17	14	10	18	14	11	19	15	12	18	15	8	14	11
40 to 50 Feet	12	17	15	14	18	16	13	18	16	13	15	14	10	16	13
50 to 60 Feet	12	12	12	14	13	13	12	12	12	10	10	10	11	13	12
60 to 70 Feet	9	7	8	10	7	9	9	6	8	8	6	7	9	9	9
70 to 80 Feet	7	4	6	7	4	6	6	4	5	6	4	5	8	5	7
80 to 90 Feet	4	2	3	4	2	3	4	2	3	4	2	3	5	3	4
90 to 100 Feet	3	1	2	3	1	2	3	1	2	3	1	2	4	2	3
above 100 Feet	26	9	18	25	9	17	25	7	16	20	6	13	34	14	24
Mean height Feet	80	51	66	81	53	67	79	48	63	69	43	56	94	61	77

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			1
AVG station N			334			328			330			340			336
AVG station -N/Kft			12			12			12			14			12
AVG sfc wind kts	14	13	14	14	13	14	15	14	15	16	15	15	12	11	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 N 25 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 61415 20 55 N 17 01 W
Radiosonde station height: 16 Feet
Surface obs source: MS75 25 00 N 25 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	7	2	4	5	0	2	7	1	4	8	8	8	6	0	3
1 GHz	45	15	30	37	5	21	49	13	31	51	34	42	43	7	25
3 GHz	57	22	39	49	10	29	60	19	40	61	43	52	58	14	36
6 GHz	83	58	71	77	46	62	84	58	71	85	71	78	85	59	72
10 GHz	94	87	91	92	82	87	94	88	91	95	91	93	96	88	92
20 GHz	97	95	96	96	92	94	97	97	97	97	96	96	98	94	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	32	11	21	24	0	12	31	6	19	36	37	37	37	0	19
AVG thickness Kft			.47			.42			.48			.53			.43
AVG trap freq GHz			.39			.40			.29			.31			.54
AVG lyr grd -N/Kft			85			90			79			79			93

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	24	9	16	24	0	12	26	8	17	33	28	31	11	0	6
AVG top ht Kft			2.3			2.5			1.6			1.8			3.2
AVG thickness Kft			.56			.47			.59			.78			.39
AVG trap freq GHz			.36			.42			.28			.17			.56
AVG lyr grd -N/Kft			57			56			56			60			58
AVG lyr base Kft			1.9			2.1			1.2			1.2			2.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	3	3	3	3	1	2	3	2	2	1	1	1
10 to 20 Feet	2	4	3	3	5	4	2	3	2	2	4	3	2	4	3
20 to 30 Feet	4	9	6	5	10	8	4	9	6	4	8	6	4	7	5
30 to 40 Feet	6	13	10	7	16	12	5	14	10	6	12	9	6	11	9
40 to 50 Feet	10	19	14	12	20	16	10	19	14	9	19	14	10	18	14
50 to 60 Feet	13	19	16	12	16	14	13	19	16	14	21	18	13	20	16
60 to 70 Feet	13	13	13	13	12	13	12	14	13	12	13	12	14	14	14
70 to 80 Feet	10	9	9	11	8	9	9	8	8	9	8	9	12	10	11
80 to 90 Feet	7	4	5	7	4	5	7	3	5	6	3	4	9	5	7
90 to 100 Feet	5	2	3	4	2	3	5	2	3	4	2	3	6	2	4
above 100 Feet	28	7	18	24	5	14	32	9	20	32	7	19	25	7	16
Mean height Feet	88	57	73	82	53	67	93	59	76	91	58	74	86	60	73

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			4			1			5			3
% occur 2+ EL dcts			1			1			1			1			0
AVG station N			343			331			343			359			340
AVG station -N/Kft			21			18			23			25			19
AVG sfc wind Kts	13	12	13	14	13	13	13	13	13	14	13	13	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 N 35 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 8594 16 43 N 22 57 W
Radiosonde station height: 177 Feet
Surface obs source: MS76 25 00 N 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	3	3	2	6	4	4	3	3	3	2	2	5	0	2
1 GHz	41	16	29	31	27	29	47	17	32	47	14	31	39	7	23
3 GHz	52	24	38	43	37	40	57	24	41	58	21	40	52	13	32
6 GHz	79	61	70	74	68	71	80	58	69	83	61	72	81	58	69
10 GHz	92	88	90	91	89	90	92	88	90	94	87	91	94	89	91
20 GHz	96	95	95	96	95	96	95	95	95	96	94	95	97	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	18	14	16	11	33	22	20	14	17	18	9	14	23	0	12
AVG thickness Kft			.62			.63			.65			.46			.75
AVG trap freq GHz			.43			.44			.43			.48			.39
AVG lyr grd -N/Kft			90			106			85			86			84

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	43	22	32	47	0	24	47	22	35	36	65	51	41	0	21
AVG top ht Kft			2.8			2.7			2.6			3.3			2.4
AVG thickness Kft			.92			.73			1.0			1.1			.90
AVG trap freq GHz			.11			.16			.09			.09			.11
AVG lyr grd -N/Kft			67			61			73			59			64
AVG lyr base Kft			2.2			2.1			2.1			2.7			1.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	3	2	2	3	2	2	2	2	2	2	1	1
10 to 20 Feet	2	5	3	2	5	4	3	5	4	2	5	3	2	4	3
20 to 30 Feet	5	7	6	6	9	7	4	8	6	3	7	5	5	6	5
30 to 40 Feet	6	12	9	7	12	10	6	14	10	5	10	8	7	12	9
40 to 50 Feet	18	20	15	11	20	16	9	21	15	8	19	13	18	19	15
50 to 60 Feet	12	20	16	13	19	16	11	19	15	10	20	15	13	20	17
60 to 70 Feet	10	13	12	12	13	12	8	12	10	9	13	11	12	15	14
70 to 80 Feet	9	9	9	10	9	10	7	7	7	9	9	9	10	9	10
80 to 90 Feet	6	4	5	6	4	5	6	4	5	6	3	5	7	4	6
90 to 100 Feet	4	2	3	5	2	3	4	2	3	4	2	3	5	3	4
above 100 Feet	33	7	20	25	6	16	36	8	23	40	9	25	27	7	17
Mean height Feet	95	58	76	84	56	70	102	58	80	105	60	82	88	58	73

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			7			4			10			8			7
% occur 2+ EL dcts			3			2			3			4			2
AVG station N			348			338			344			360			350
AVG station -N/Kft			22			21			24			19			22
AVG stc wind Kts	12	12	12	14	13	13	12	11	11	11	11	11	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 N 45 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YE 35 00 N 48 00 W
Radiosonde station height: 39 Feet
Surface obs source: MS77 25 00 N 45 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	1	1	1	1	1	2	1	1	4	1	2	1	1	1
1 GHz	37	10	24	27	10	18	41	10	26	49	11	30	31	10	20
3 GHz	48	17	32	39	17	28	51	15	33	60	17	39	43	18	30
6 GHz	77	56	67	71	55	63	77	49	63	84	59	72	77	61	69
10 GHz	92	87	89	90	86	88	92	83	87	95	88	91	93	89	91
20 GHz	96	94	95	95	94	95	96	92	94	98	95	96	97	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	11	4	8	6	6	6	12	4	8	20	4	12	6	3	5
AVG thickness Kft			.42			.25			.39			.58			.47
AVG trap freq GHz			.71			1.3			.78			.48			.33
AVG lyr grd -N/Kft			105			109			106			104			99

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	31	43	37	29	39	34	40	52	46	28	45	37	28	37	33
AVG top ht Kft			5.7			5.5			5.4			5.7			6.1
AVG thickness Kft			.43			.36			.43			.49			.43
AVG trap freq GHz			.39			.49			.39			.32			.35
AVG lyr grd -N/Kft			60			59			61			59			60
AVG lyr base Kft			5.4			5.2			5.1			5.3			5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	2	2	2	2	2	2	1	1	2	1	1
10 to 20 Feet	2	5	3	3	5	4	3	6	4	2	4	3	2	4	3
20 to 30 Feet	4	8	6	5	9	7	4	10	7	3	8	6	4	7	6
30 to 40 Feet	6	13	10	8	14	11	6	15	11	5	12	8	6	11	9
40 to 50 Feet	10	19	14	12	19	15	10	20	15	7	19	13	11	18	14
50 to 60 Feet	12	19	16	12	18	15	12	18	15	11	21	16	13	21	17
60 to 70 Feet	11	13	12	12	13	13	10	11	10	10	14	12	13	15	14
70 to 80 Feet	9	8	8	10	8	9	7	6	7	8	8	8	10	10	10
80 to 90 Feet	6	4	5	7	4	5	5	3	4	6	4	5	8	5	6
90 to 100 Feet	4	2	3	5	2	3	3	1	2	5	2	3	5	3	4
above 100 Feet	33	8	20	25	7	16	37	8	23	41	8	25	27	8	18
Mean height Feet	94	58	76	84	57	70	99	57	78	107	60	83	87	60	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			1			3			4			1
% occur 2+ EL dcts			5			3			7			7			3
AVG station H			354			338			352			373			352
AVG station -N/Kft			17			14			17			19			16
AVG sfc wind Kts	12	11	11	14	13	13	11	10	10	11	10	10	12	11	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 N 55 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78861 17 07 N 61 46 W
Radiosonde station height: 33 Feet
Surface obs source: MS78 25 00 N 55 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	31	9	20	25	8	16	33	9	21	37	10	24	27	8	18
3 GHz	42	15	29	37	15	26	43	14	28	49	17	33	41	17	29
6 GHz	76	56	66	71	54	63	74	49	61	81	61	71	77	61	69
10 GHz	92	86	89	90	85	88	91	83	87	94	88	91	93	89	91
20 GHz	97	94	95	96	93	95	96	93	95	98	95	96	97	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	0	1	1	0	1	1	0	1	2	0	1	3	0	2
AVG thickness Kft			.33			.28			.45			.26			.34
AVG trap freq GHz			.78			1.0			.81			.66			.66
AVG lyr grd -N/Kft			200			353			200			82			163

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	44	9	22	49	0	25	41	0	21	42	0	21	42	0	21
AVG top ht Kft			6.5			6.9			6.4			6.0			6.8
AVG thickness Kft			.40			.41			.38			.40			.42
AVG trap freq GHz			.43			.44			.48			.42			.37
AVG lyr grd -N/Kft			60			57			58			62			61
AVG lyr base Kft			6.2			6.6			6.1			5.7			6.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1
10 to 20 Feet	2	4	3	2	5	3	2	5	4	1	4	3	2	4	3
20 to 30 Feet	4	8	6	5	8	7	5	10	7	4	7	6	4	7	5
30 to 40 Feet	7	12	9	8	13	10	7	14	11	5	9	7	6	10	8
40 to 50 Feet	10	18	14	12	18	15	10	20	15	8	17	13	11	17	14
50 to 60 Feet	13	19	16	13	18	15	12	18	15	11	21	16	14	19	16
60 to 70 Feet	12	13	13	12	13	13	11	11	11	11	14	13	13	15	14
70 to 80 Feet	10	8	9	10	8	9	8	6	7	10	9	9	11	10	10
80 to 90 Feet	7	4	6	7	5	6	6	3	4	7	4	5	8	5	7
90 to 100 Feet	5	2	4	5	2	4	4	2	3	5	2	4	5	3	4
above 100 Feet	30	9	19	24	8	16	32	9	21	37	10	23	26	8	17
Mean height Feet	91	60	76	82	58	70	93	58	76	101	63	82	87	62	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			1			1
% occur 2+ EL dcts			11			13			10			10			13
AVG station N			373			363			372			381			376
AVG station -N/Kft			18			16			18			19			18
AVG sfc wind Kts	11	10	11	13	12	12	11	9.4	10	10	9.3	10	12	11	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 N 65 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78526 18 25 N 66 00 W
Radiosonde station height: 10 Feet
Surface obs source: MS79 25 00 N 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	1	1	2	0	1	1	0	1	1	0	0
1 GHz	31	11	21	24	10	17	34	11	23	39	13	26	27	10	19
3 GHz	43	20	31	35	18	27	45	17	31	51	21	36	42	22	32
6 GHz	78	65	71	73	61	67	75	56	65	84	70	77	79	70	75
10 GHz	93	89	91	91	88	89	91	86	88	95	92	93	94	92	93
20 GHz	96	95	96	95	94	95	95	94	94	97	97	97	97	97	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	3	5	4	4	4	10	2	6	9	2	6	5	3	4
AVG thickness Kft			.42			.41			.45			.48			.33
AVG trap freq GHz			.87			.87			.66			.67			1.3
AVG lyr grd -N Kft			138			135			132			191			94

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	38	47	42	52	64	58	35	48	42	26	34	30	37	41	39
AVG top ht Kft			7.2			7.3			7.1			6.8			7.7
AVG thickness Kft			.43			.52			.42			.43			.36
AVG trap freq GHz			.40			.25			.40			.44			.51
AVG lyr grd -N/Kft			60			61			61			61			59
AVG lyr base Kft			6.9			6.9			6.8			6.5			7.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	2	2	3	2	3	1	1	1	1	1	1
10 to 20 Feet	2	3	3	3	4	3	3	4	3	1	3	2	1	3	2
20 to 30 Feet	4	6	5	5	7	6	5	8	6	3	5	4	4	5	4
30 to 40 Feet	6	9	8	7	11	9	7	12	10	4	7	5	6	8	7
40 to 50 Feet	10	16	13	12	17	14	10	17	14	8	15	12	10	15	12
50 to 60 Feet	13	19	16	14	19	16	12	18	15	12	21	17	13	19	16
60 to 70 Feet	13	16	14	13	15	14	11	13	12	12	17	15	14	18	16
70 to 80 Feet	10	11	11	11	10	11	9	8	8	10	11	11	12	13	12
80 to 90 Feet	7	5	6	7	5	6	6	4	5	7	6	6	9	7	8
90 to 100 Feet	5	3	4	5	3	4	4	2	3	5	3	4	6	4	5
above 100 Feet	28	10	19	22	8	15	30	10	20	36	12	24	25	9	17
Mean height Feet	89	64	76	80	60	70	98	61	75	100	68	84	86	65	75

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			2			1			1			1
% occur 2+ EL dcts			7			10			6			5			8
AVG station N			367			359			367			376			367
AVG station -N/Kft			16			15			16			17			16
AVG sfc wind Kts	12	12	12	13	13	13	12	11	12	11	11	11	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 18 N 76 18 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78076 25 18 N 76 18 W
Radiosonde station height: 30 Feet
Surface obs source: MS80 25 00 N 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
1 GHz	28	11	19	20	7	14	33	12	22	35	14	25	24	9	16
3 GHz	40	20	30	32	16	24	42	19	31	45	24	34	39	22	31
6 GHz	76	66	71	72	62	67	73	59	66	80	71	75	78	71	75
10 GHz	92	89	90	91	88	89	89	85	87	93	91	92	93	92	93
20 GHz	96	94	95	95	93	94	93	92	93	97	95	96	97	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	0	2	3	0	2	4	0	2	1	0	1	4	0	2
AVG thickness Kft			.36			.47			.42			.28			.27
AVG trap freq GHz			1.2			.78			.34			1.9			1.9
AVG lyr grd -N/Kft			177			188			133			227			238

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	25	0	12	36	0	18	24	0	12	15	0	8	24	0	12
AVG top ht Kft			4.5			5.1			4.5			3.2			5.3
AVG thickness Kft			.42			.44			.47			.37			.41
AVG trap freq GHz			.54			.36			.64			.73			.42
AVG lyr grd -N/Kft			56			60			56			51			57
AVG lyr base Kft			4.2			4.8			4.2			2.9			5.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	3	3	3	4	4	4	2	1	2	2	1	1
10 to 20 Feet	2	3	3	3	4	3	3	4	4	2	3	2	2	3	2
20 to 30 Feet	4	5	5	5	6	5	5	7	6	3	5	4	3	4	4
30 to 40 Feet	6	9	7	8	10	9	6	10	8	5	6	6	6	7	7
40 to 50 Feet	10	15	12	12	16	14	10	16	13	9	13	11	10	13	12
50 to 60 Feet	13	18	16	14	18	16	12	17	15	13	19	16	13	18	16
60 to 70 Feet	13	16	14	14	16	15	11	14	12	12	17	15	14	18	16
70 to 80 Feet	11	11	11	12	12	12	9	9	9	9	11	10	13	14	13
80 to 90 Feet	7	6	7	7	6	7	6	5	5	6	6	6	9	8	9
90 to 100 Feet	5	3	4	4	3	4	4	3	3	4	3	4	6	5	5
above 100 Feet	27	11	19	19	7	13	30	12	21	35	14	25	22	9	16
Mean height Feet	87	66	76	76	60	68	90	65	77	99	71	85	82	66	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			1			0			0			0
% occur 2+ EL dcts			3			3			1			2			3
AVG station N			366			351			369			383			362
AVG station -N/Kft			18			16			20			21			17
AVG sfc wind Kts	13	12	12	14	14	14	12	12	12	11	11	11	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 26 36 N 78 18 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78063 26 36 N 78 18 W
Radiosonde station height: 7 Feet
Surface obs source: MS80 25 00 N 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
1 GHz	27	12	19	19	8	13	31	13	22	35	16	26	24	10	17
3 GHz	39	21	30	30	17	23	40	20	30	45	26	36	39	23	31
6 GHz	75	66	71	71	62	66	72	60	66	80	72	76	78	72	75
10 GHz	91	89	90	90	88	89	88	86	87	93	91	92	93	92	93
20 GHz	95	94	95	95	93	94	93	92	93	97	96	96	97	97	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	0	1	1	1	1	1	1	4	3	4	1	3
AVG thickness Kft			.52			.36			.84			.43			.44
AVG trap freq GHz			1.6			4.5			.33			.64			1.0
AVG lyr grd -N/Kft			118			128			78			110			156

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	29	28	29	39	35	37	25	29	27	21	18	20	30	31	31
AVG top ht Kft			4.2			5.0			4.1			3.2			4.5
AVG thickness Kft			.45			.51			.39			.45			.45
AVG trap freq GHz			.51			.29			.82			.57			.37
AVG lyr grd -N/Kft			56			58			54			53			60
AVG lyr base Kft			3.8			4.6			3.8			2.8			4.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	3	3	3	4	4	4	2	1	2	2	1	1
10 to 20 Feet	2	3	3	3	4	3	3	4	4	2	3	2	2	3	2
20 to 30 Feet	4	5	5	5	6	5	5	7	6	3	5	4	3	4	4
30 to 40 Feet	6	9	7	8	10	9	6	10	8	5	6	6	6	7	7
40 to 50 Feet	10	15	12	12	16	14	10	16	13	9	13	11	10	13	12
50 to 60 Feet	13	18	16	14	18	16	12	17	15	13	19	16	13	18	16
60 to 70 Feet	13	16	14	14	16	15	11	14	12	12	17	15	14	18	16
70 to 80 Feet	11	11	11	12	12	12	9	9	9	9	11	10	13	14	13
80 to 90 Feet	7	6	7	7	6	7	6	5	5	6	6	6	9	8	9
90 to 100 Feet	5	3	4	4	3	4	4	3	3	4	3	4	6	5	5
above 100 Feet	27	11	19	19	7	13	30	12	21	35	14	25	22	9	16
Mean height Feet	87	66	76	76	60	68	90	65	77	99	71	85	82	65	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			1			0			0
% occur 2+ EL dcts			3			4			3			3			3
AVG station N			364			345			367			383			359
AVG station -N/Kft			17			14			18			19			16
AVG sfc wind Kts	13	12	12	14	14	14	12	12	12	11	11	11	14	13	13

IREPS REV 2.1 HISTOPICAL PROPAGATION CONDITIONS SUMMAR:

Specified location: 21 27 N 71 09 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78118 21 27 N 71 09 W
Radiosonde station height: 26 Feet
Surface obs source: MS80 25 00 N 75 00 W

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
1 GHz	27	11	19	20	7	14	30	12	21	35	14	25	23	9	16
3 GHz	39	20	30	32	16	24	40	19	30	45	24	34	38	22	30
6 GHz	75	66	71	72	62	67	72	59	66	80	71	75	78	71	75
10 GHz	91	89	90	91	88	89	88	85	87	93	91	92	93	92	93
20 GHz	95	94	95	95	93	94	93	92	93	97	95	96	97	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	1	2	0	1	0	0	0	1	0	1	1	0	1
AVG thickness Kft			.45			.30			.37			.23			.41
AVG trap freq GHz			.63			.24			.19			1.3			.79
AVG lyr grd -N/Kft			317			181			510			410			168

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	44	0	22	50	0	25	48	0	24	36	0	18	43	0	22
AVG top ht Kft			5.9			6.0			5.4			5.0			6.3
AVG thickness Kft			.41			.42			.47			.35			.42
AVG trap freq GHz			.41			.40			.32			.50			.43
AVG lyr grd -N/Kft			60			61			64			59			57
AVG lyr base Kft			5.6			5.7			5.0			5.7			6.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	3	3	3	4	4	4	2	1	2	2	1	1
10 to 20 Feet	2	3	3	3	4	3	3	4	4	2	3	2	2	3	2
20 to 30 Feet	4	5	5	5	6	5	5	7	6	3	5	4	3	4	4
30 to 40 Feet	6	9	7	8	10	9	6	10	8	5	6	6	6	7	7
40 to 50 Feet	10	15	12	12	16	14	10	16	13	9	13	11	10	13	12
50 to 60 Feet	13	18	16	14	18	16	12	17	15	13	19	16	13	18	16
60 to 70 Feet	13	16	14	14	16	15	11	14	12	12	17	15	14	18	16
70 to 80 Feet	11	11	11	12	12	12	9	9	9	9	11	10	13	14	13
80 to 90 Feet	7	6	7	7	6	7	6	5	5	6	6	6	9	8	9
90 to 100 Feet	5	3	4	4	3	4	4	3	3	4	3	4	6	5	5
above 100 Feet	20	11	19	19	7	13	30	12	21	35	14	25	22	9	15
Mean height Feet	87	66	76	76	60	68	90	65	77	99	71	85	82	66	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			1			0			0			0
% occur 2+ EL dcts			12			17			12			8			11
AVG station N			369			360			370			379			365
AVG station -N/Kft			17			16			18			19			16
AVG sfc wind Kts	13	12	12	14	14	14	12	12	12	11	11	11	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 29 43 N 84 58 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72220 29 43 N 84 58 W
Radiosonde station height: 39 Feet
Surface obs source: MS81 25 00 N 85 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	*	*	*	*	*	*	0	1	0	1	2	2
1 GHz	33	16	25	*	*	*	*	*	*	36	15	26	30	18	24
3 GHz	46	28	37	*	*	*	*	*	*	46	24	35	47	33	40
6 GHz	81	74	78	*	*	*	*	*	*	80	72	76	82	76	79
10 GHz	93	92	93	*	*	*	*	*	*	93	91	92	94	92	93
20 GHz	97	96	96	*	*	*	*	*	*	97	96	97	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	12	9	*	*	*	*	*	*	4	5	5	8		13
AVG thickness Kft			.32			*			*			.26			.3
AVG trap freq GHz			1.2			*			*			1.3			1.0
AVG lyr grd -N/Kft			150			*			*			182			18

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	60	50	55	*	*	*	*	*	*	51	38	44	68	64	66
AVG top ht Kft			5.9			*			*			7.2			4.6
AVG thickness Kft			.39			*			*			.31			.47
AVG trap freq GHz			.50			*			*			.72			.27
AVG lyr grd -N/Kft			60			*			*			56			63
AVG lyr base Kft			5.6			*			*			6.9			4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	5	4	5	4	3	3	2	1	1	2	2	2
10 to 20 Feet	2	4	3	3	4	3	3	4	4	2	4	3	1	3	2
20 to 30 Feet	4	6	5	4	7	6	4	7	5	4	5	4	3	5	4
30 to 40 Feet	5	8	7	6	10	8	6	9	8	5	6	5	5	7	6
40 to 50 Feet	9	14	12	10	15	13	10	15	13	9	13	11	8	12	10
50 to 60 Feet	12	18	15	12	18	15	13	18	15	13	20	16	11	16	14
60 to 70 Feet	13	16	14	13	15	14	11	14	13	13	18	16	13	17	15
70 to 80 Feet	10	12	11	11	11	11	8	9	9	9	12	11	13	15	14
80 to 90 Feet	7	6	7	7	5	6	6	5	5	6	6	6	10	8	9
90 to 100 Feet	4	3	4	4	3	4	4	2	3	4	3	3	6	5	6
above 100 Feet	30	11	20	24	8	16	32	13	23	35	10	24	27	10	19
Mean height Feet	91	65	78	81	60	70	93	66	79	100	70	85	90	67	78

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			0			0			0			8
% occur 2+ EL dcts			7			0			0			8			20
AVG station N			362			*			*			380			343
AVG station -N/Kft			17			*			*			17			17
AVG sfc wind Kts	12	12	12	14	13	14	12	11	11	10	10	10	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 29 19 N 89 24 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72232 29 19 N 89 24 W
Radiosonde station height: 3 Feet
Surface obs source: MS81 25 00 N 85 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1
1 GHz	34	15	24	28	11	19	38	19	28	38	17	28	31	13	22
3 GHz	46	25	35	40	19	30	48	28	38	47	27	37	47	27	37
6 GHz	78	68	73	74	61	67	76	66	71	81	73	77	82	73	78
10 GHz	92	89	90	89	85	87	91	88	89	93	92	93	94	91	92
20 GHz	95	95	95	93	92	93	94	94	94	97	97	97	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	8	8	9	5	7	13	11	12	7	8	8	8	6	7
AVG thickness Kft			.43			.38			.48			.48			.37
AVG trap freq GHz			.61			.64			.57			.59			.66
AVG lyr grd -N/Kft			94			94			82			122			76

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	45	37	41	51	41	46	49	39	44	28	23	26	51	44	48
AVG top ht Kft			4.2			4.3			4.1			4.8			4.6
AVG thickness Kft			.50			.47			.55			.48			.52
AVG trap freq GHz			.28			.29			.25			.35			.24
AVG lyr grd -N/Kft			62			63			61			59			65
AVG lyr base Kft			3.9			3.9			3.7			3.6			4.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	5	4	5	4	3	3	2	1	1	2	2	2
10 to 20 Feet	2	4	3	3	4	3	3	4	4	2	4	3	1	3	2
20 to 30 Feet	4	6	5	4	7	6	4	7	5	4	5	4	3	5	4
30 to 40 Feet	5	8	7	6	10	8	6	9	8	5	6	6	5	7	6
40 to 50 Feet	9	14	12	10	15	13	10	15	13	9	13	11	8	12	10
50 to 60 Feet	12	18	15	12	18	15	13	18	15	13	20	16	11	16	14
60 to 70 Feet	13	16	14	13	15	14	11	14	13	13	18	16	13	17	15
70 to 80 Feet	10	12	11	11	11	11	8	9	9	9	12	11	13	15	14
80 to 90 Feet	7	6	7	7	5	6	6	5	5	6	6	6	10	8	9
90 to 100 Feet	4	3	4	4	3	4	4	2	3	4	3	3	6	5	6
above 100 Feet	30	11	20	24	8	16	32	13	23	35	13	24	27	10	19
Mean height Feet	91	65	78	81	60	70	93	66	79	100	70	85	90	67	78

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			2			4			1			3
% occur 2+ EL dcts			6			8			8			4			6
AVG station N			358			335			368			381			347
AVG station -N/Kft			18			16			19			19			17
AVG sfc wind Kts	12	12	12	14	13	14	12	11	11	10	10	10	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 28 28 N 80 33 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 74794 28 28 N 80 33 W
Radiosonde station height: 10 Feet
Surface obs source: MS81 25 00 N 85 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1
1 GHz	32	15	24	28	11	19	35	19	27	37	19	28	29	13	21
3 GHz	44	26	35	40	20	30	45	28	36	46	28	37	46	27	36
6 GHz	78	69	73	74	61	68	75	66	70	80	74	77	82	73	77
10 GHz	92	89	90	90	86	88	90	88	89	93	92	93	93	91	92
20 GHz	95	95	95	93	92	93	94	94	94	97	97	97	96	96	96

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	9	8	10	6	8	7	11	9	5	11	8	5	7	6
AVG thickness Kft			.40			.34			.40			.48			.38
AVG trap freq GHz			.70			.89			.59			.62			.69
AVG lyr grd -N/Kft			102			113			93			119			84

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	23	32	41	23	32	48	25	37	32	17	25	44	25	35
AVG top ht Kft			4.6			4.7			4.6			3.3			5.7
AVG thickness Kft			.42			.38			.46			.45			.39
AVG trap freq GHz			.38			.43			.33			.34			.42
AVG lyr grd -N/Kft			59			58			59			56			62
AVG lyr base Kft			4.3			4.4			4.2			3.0			5.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	5	4	5	4	3	3	2	1	1	2	2	2
10 to 20 Feet	2	4	3	3	4	3	3	4	4	2	4	3	1	3	2
20 to 30 Feet	4	6	5	4	7	6	4	7	5	4	5	4	3	5	4
30 to 40 Feet	5	8	7	6	10	8	6	9	8	5	6	6	5	7	6
40 to 50 Feet	9	14	12	10	15	13	10	15	13	9	13	11	8	12	10
50 to 60 Feet	12	18	15	12	18	15	13	18	15	13	20	16	11	16	14
60 to 70 Feet	13	16	14	13	15	14	11	14	13	13	19	16	13	17	15
70 to 80 Feet	10	12	11	11	11	11	8	9	9	9	12	11	13	15	14
80 to 90 Feet	7	6	7	7	5	6	6	5	5	6	6	6	10	8	9
90 to 100 Feet	4	3	4	4	3	4	4	2	3	4	3	3	6	5	6
above 100 Feet	30	11	20	24	8	16	32	13	23	35	13	24	27	10	19
Mean height Feet	91	65	78	81	60	70	93	66	79	100	70	85	90	67	78

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL=SB dcts			2			2			3			1			2
% occur 2+ EL dcts			7			7			8			8			7
AVG station H			359			340			363			382			351
AVG station -N/Kft			17			16			19			19			16
AVG sfc wind Kts	12	12	12	14	13	14	12	11	11	10	10	10	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 23 09 N 82 21 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78325 23 09 N 82 21 W
Radiosonde station height: 164 Feet
Surface obs source: MS81 25 00 N 85 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	0	0	1	0	1	*	*	*	*	*	*
1 GHz	30	10	20	26	8	17	35	13	24	*	*	*	*	*	*
3 GHz	41	18	30	38	16	27	45	20	32	*	*	*	*	*	*
6 GHz	74	60	67	73	59	66	75	62	68	*	*	*	*	*	*
10 GHz	89	86	88	89	85	87	90	87	88	*	*	*	*	*	*
20 GHz	94	92	93	93	92	92	94	93	94	*	*	*	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	0	2	6	0	3	3	0	3	*	*	*	0	0	0
AVG thickness Kft			.40			.48			.33			*			*
AVG trap freq GHz			.72			1.2			.24			*			*
AVG lyr grd -N/Kft			168			99			237			*			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	1	4	0	2	0	0	0	*	*	*	0	0	0
AVG top ht Kft			7.1			7.1			*			*			*
AVG thickness Kft			.54			.54			*			*			*
AVG trap freq GHz			.90			.90			*			*			*
AVG lyr grd -N/Kft			121			121			*			*			*
AVG lyr base Kft			6.9			6.9			*			*			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	5	4	5	4	3	3	2	1	1	2	2	2
10 to 20 Feet	2	4	3	3	4	3	3	4	4	2	4	3	1	3	2
20 to 30 Feet	4	6	5	4	7	6	4	7	5	4	5	4	3	5	4
30 to 40 Feet	5	8	7	6	10	8	6	9	8	5	5	6	5	7	6
40 to 50 Feet	9	14	12	10	15	13	10	15	13	9	13	11	8	12	10
50 to 60 Feet	12	18	15	12	18	15	13	18	15	13	20	16	11	16	14
60 to 70 Feet	13	16	14	13	15	14	11	14	13	13	18	16	13	17	15
70 to 80 Feet	10	12	11	11	11	11	8	9	9	9	12	11	13	15	14
80 to 90 Feet	7	6	7	7	5	6	6	5	5	6	6	6	10	8	9
90 to 100 Feet	4	3	4	4	3	4	4	2	3	4	3	3	6	5	5
above 100 Feet	30	11	20	24	8	16	32	13	23	35	13	24	27	10	19
Mean height Feet	91	65	78	81	60	70	93	66	79	100	70	85	90	67	79

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SP dcts			0			0			0			0			0
% occur 2+ EL dcts			0			1			0			0			0
AVG station N			358			361			374			*			339
AVG station -N/Kft			16			16			19			*			13
AVG sfc wind Kts	12	12	12	14	13	14	12	11	11	10	10	10	14	13	13

IREPS PEV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 24 34 N 81 42 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72201 24 34 N 81 42 W
Radiosonde station height: 10 Feet
Surface obs source: MS81 25 00 N 85 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESN FOR RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0
1 GHz	31	13	22	25	13	19	34	16	25	36	14	25	29	11	20
3 GHz	43	23	33	37	22	29	43	23	33	45	23	34	45	25	35
6 GHz	77	67	72	73	62	67	74	64	69	80	72	76	81	72	77
10 GHz	91	89	90	89	86	87	90	87	88	93	91	92	93	91	92
20 GHz	95	94	95	93	92	93	94	93	94	97	96	97	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	4	4	3	8	6	3	4	4	3	2	3	4	3	4
AVG thickness Kft			.51			.60			.50			.53			.39
AVG trap freq GHz			.63			.54			.24			.90			.83
AVG lyr grd -N/Kft			111			134			101			95			116

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	54	54	54	67	61	64	56	52	54	31	38	35	62	66	64
AVG top ht Kft			5.9			5.6			5.3			5.9			6.9
AVG thickness Kft			.49			.53			.53			.37			.52
AVG trap freq GHz			.29			.22			.28			.46			.22
AVG lyr grd -N/Kft			64			64			65			58			70
AVG lyr base Kft			5.6			5.2			5.0			5.6			6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	5	4	5	4	3	3	2	1	1	2	2	2
10 to 20 Feet	2	4	3	3	4	3	3	4	4	2	4	3	1	3	2
20 to 30 Feet	4	6	5	4	7	6	4	7	5	4	5	4	3	5	4
30 to 40 Feet	5	8	7	6	10	8	6	9	8	5	6	6	5	7	6
40 to 50 Feet	9	14	12	10	15	13	10	15	13	9	13	11	8	12	10
50 to 60 Feet	12	18	15	12	18	15	13	18	15	13	20	16	11	16	14
60 to 70 Feet	13	16	14	13	15	14	11	14	13	13	18	16	13	17	15
70 to 80 Feet	10	12	11	11	11	11	8	9	9	9	12	11	13	15	14
80 to 90 Feet	7	6	7	7	5	6	6	5	5	6	6	6	10	8	9
90 to 100 Feet	4	3	4	4	3	4	4	2	3	4	3	3	6	5	6
above 100 Feet	30	11	20	24	8	15	32	13	23	35	13	24	27	10	19
Mean height Feet	91	65	78	81	60	70	93	66	79	100	70	85	90	67	78

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			3			1			1			3
% occur 2+ EL dcts			15			17			18			9			17
AVG station N			365			353			366			379			360
AVG station -N/Kft			17			16			18			18			16
AVG sfc wind Kts	12	12	12	14	13	14	12	11	11	10	10	10	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 48 N 80 16 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72202 25 48 N 80 16 W
Radiosonde station height: 13 Feet
Surface obs source: MS81 25 00 N 85 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	0	0	1	0	1	1	1	1	1	1	1
1 GHz	32	13	22	26	9	17	35	14	25	38	15	26	30	12	21
3 GHz	44	22	33	38	17	27	45	22	34	47	24	36	46	25	36
6 GHz	78	67	72	73	59	66	75	63	69	81	72	77	82	73	77
10 GHz	91	89	90	89	85	87	90	87	89	93	91	92	93	91	92
20 GHz	95	94	95	93	92	92	94	93	94	97	96	97	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	3	5	5	1	3	7	3	5	7	4	6	5	4	5
AVG thickness Kft			.49			.57			.53			.40			.44
AVG trap freq GHz			.62			.64			.62			.61			.63
AVG lyr grd -M/Kft			113			98			79			144			130

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	47	44	45	58	53	56	48	41	45	30	23	27	53	57	55
AVG top ht Kft			6.0			5.6			6.3			5.8			6.6
AVG thickness Kft			.45			.50			.44			.37			.51
AVG trap freq GHz			.36			.27			.36			.55			.26
AVG lyr grd -M/Kft			62			62			60			59			65
AVG lyr base Kft			5.7			5.2			6.0			5.2			6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	5	4	5	4	3	3	2	1	1	2	2	2
10 to 20 Feet	2	4	3	3	4	3	3	4	4	2	4	3	1	3	2
20 to 30 Feet	4	6	5	4	7	6	4	7	5	4	5	4	3	5	4
30 to 40 Feet	5	8	7	6	10	8	6	9	8	5	6	6	5	7	5
40 to 50 Feet	9	14	12	10	15	13	10	15	13	9	13	11	8	12	10
50 to 60 Feet	12	18	15	12	18	15	13	18	15	13	20	16	11	16	14
60 to 70 Feet	13	16	14	13	15	14	11	14	13	13	18	15	13	17	15
70 to 80 Feet	10	12	11	11	11	11	8	9	9	9	12	11	13	15	14
80 to 90 Feet	7	6	7	7	5	6	6	5	5	6	6	6	10	8	9
90 to 100 Feet	4	3	4	4	3	4	4	2	3	4	3	3	6	5	6
above 100 Feet	30	11	20	24	8	16	32	13	23	35	13	24	27	10	19
Mean height Feet	91	65	78	81	60	70	93	66	79	100	70	85	90	67	78

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SL dcts			2			1			2			2			1
% occur 2+ EL dcts			9			10			10			4			11
AVG station N			362			345			367			379			356
AVG station -M/Kft			16			14			17			18			16
AVG sfc wind Kts	12	12	12	14	13	14	12	11	11	10	10	10	14	13	13

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 27 58 N 82 31 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72211 27 58 N 82 31 W
Radiosonde station height: 26 Feet
Surface obs source: MS81 25 00 N 85 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1
1 GHz	33	14	24	27	11	19	36	16	26	39	18	29	31	12	22
3 GHz	45	24	35	39	19	29	45	24	35	48	28	38	47	26	36
6 GHz	78	68	73	74	61	67	75	64	70	81	74	77	82	73	77
10 GHz	92	89	90	89	85	87	90	87	89	93	92	93	94	91	92
20 GHz	95	94	95	93	92	93	94	94	94	97	97	97	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	6	7	8	5	7	8	6	7	8	9	9	8	5	7
AVG thickness Kft			.44			.43			.47			.47			.38
AVG trap freq GHz			.58			.57			.59			.44			.71
AVG lyr grd -N/Kft			108			126			85			114			106

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	47	44	45	55	46	51	48	45	47	38	28	29	54	56	55
AVG top ht Kft			5.8			5.5			5.5			6.2			6.1
AVG thickness Kft			.45			.48			.47			.40			.46
AVG trap freq GHz			.33			.30			.33			.40			.30
AVG lyr grd -N/Kft			62			62			63			57			64
AVG lyr base Kft			5.5			5.1			5.2			5.9			5.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	5	4	5	4	3	3	2	1	1	2	2	2
10 to 20 Feet	2	4	3	3	4	3	3	4	4	2	4	3	1	3	2
20 to 30 Feet	4	6	5	4	7	6	4	7	5	4	5	4	3	5	4
30 to 40 Feet	5	8	7	6	10	8	6	9	8	5	6	6	5	7	6
40 to 50 Feet	9	14	12	10	15	13	10	15	13	9	13	11	8	12	10
50 to 60 Feet	12	18	15	12	18	15	13	18	15	13	20	16	11	16	14
60 to 70 Feet	13	16	14	13	15	14	11	14	13	13	18	16	13	17	15
70 to 80 Feet	10	12	11	11	11	11	8	9	9	9	12	11	13	15	14
80 to 90 Feet	7	6	7	7	5	6	6	5	5	6	6	6	10	8	9
90 to 100 Feet	4	3	4	4	3	4	4	2	3	4	3	3	6	5	6
above 100 Feet	30	11	20	24	8	16	32	13	23	35	17	24	27	10	19
Mean height Feet	91	65	78	81	60	70	93	66	79	100	70	85	90	67	78

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			2			2			2			3
% occur 2+ EL dcts			11			12			13			6			11
AVG station N			355			336			360			378			345
AVG station -N/Kft			16			15			18			19			15
AVG sfc wind Kts	12	12	12	14	13	14	12	11	11	10	10	10	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 54 N 97 25 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72250 25 54 N 97 25 W
Radiosonde station height: 23 Feet
Surface obs source: MS82 25 00 N 95 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	0	1	1	1	1	1	1	0	1	0	1	1
1 GHz	28	11	19	19	10	14	28	10	19	37	11	24	27	13	20
3 GHz	38	20	29	26	16	21	35	15	25	48	22	35	42	26	34
6 GHz	70	59	64	57	45	51	62	46	54	81	75	78	79	69	74
10 GHz	86	82	84	76	72	74	82	75	79	94	93	93	91	89	90
20 GHz	91	90	90	83	82	82	88	86	87	97	97	97	95	94	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	5	5	1	8	5	6	5	6	6	2	4	2	6	4
AVG thickness Kft			.47			.51			.53			.31			.54
AVG trap freq GHz			.80			.68			1.0			.92			.63
AVG lyr grd -N/Kft			104			104			97			120			96

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	45	55	50	53	58	56	46	61	54	32	40	36	48	61	55
AVG top ht Kft			4.3			4.4			4.0			3.5			5.2
AVG thickness Kft			.59			.66			.66			.52			.54
AVG trap freq GHz			.23			.16			.18			.31			.26
AVG lyr grd -N/Kft			62			66			63			58			60
AVG lyr base Kft			3.9			4.0			3.6			3.1			4.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	6	6	6	13	13	13	8	8	8	1	1	1	4	3	3
10 to 20 Feet	3	5	4	4	7	6	5	7	6	2	2	2	2	3	2
20 to 30 Feet	5	8	7	7	11	9	7	11	9	3	4	4	4	5	5
30 to 40 Feet	7	10	9	9	13	11	9	14	12	5	6	5	5	8	7
40 to 50 Feet	10	14	12	11	16	13	12	16	14	9	12	10	8	14	11
50 to 60 Feet	12	16	14	13	14	13	12	16	14	13	13	13	11	15	13
60 to 70 Feet	12	14	13	11	11	11	10	10	10	13	21	17	13	16	15
70 to 80 Feet	9	10	10	8	6	7	6	6	6	9	14	12	13	14	13
80 to 90 Feet	6	5	5	4	3	4	4	3	3	7	7	7	9	8	8
90 to 100 Feet	4	3	3	3	2	2	2	2	2	4	4	4	6	5	5
above 100 Feet	26	8	17	18	6	12	26	7	17	35	10	23	26	10	18
Mean height Feet	84	58	71	67	47	57	80	52	66	100	69	84	87	65	76

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			1			2			2			2
% occur 2+ EL dcts			10			12			14			6			9
AVG station N			359			342			369			374			349
AVG station -N/Kft			17			15			19			19			15
AVG sfc wind Kts	13	13	13	15	14	15	12	12	12	10	11	11	14	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 23 10 N 105 25 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 76458 23 10 N 105 25 W
Radiosonde station height: 13 Feet
Surface obs source: MS83 25 00 N 105 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	10	6	8	13	6	9	13	7	10	7	4	5	9	6	8
1 GHz	61	27	44	63	25	44	66	31	49	57	26	41	59	28	43
3 GHz	70	34	52	71	31	51	75	37	56	66	33	49	70	36	53
6 GHz	87	60	73	87	55	71	88	57	72	83	60	72	89	67	78
10 GHz	95	85	90	96	84	90	95	84	89	92	83	88	95	89	92
20 GHz	97	92	95	97	92	94	97	91	94	96	91	93	98	95	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	49	27	38	51	25	38	63	32	48	38	23	31	43	29	36
AVG thickness Kft			.57			.58			.69			.42			.59
AVG trap freq GHz			.36			.26			.34			.49			.35
AVG lyr grd -N/Kft			103			105			102			104			103

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	33	55	44	27	60	44	33	71	52	32	34	33	39	55	47
AVG top ht Kft			2.8			2.3			3.2			3.1			2.8
AVG thickness Kft			.63			.52			.76			.60			.62
AVG trap freq GHz			.21			.27			.13			.23			.20
AVG lyr grd -N/Kft			63			61			69			59			62
AVG lyr base Kft			2.4			1.9			2.7			2.6			2.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	4	3	4	3	3	3	5	5	5	5	3	4	2	1	2
10 to 20 Feet	2	7	5	3	7	5	3	7	5	2	8	5	2	5	4
20 to 30 Feet	5	10	7	3	11	7	5	11	8	5	10	8	5	8	6
30 to 40 Feet	6	15	11	7	18	12	7	18	12	5	12	9	4	13	9
40 to 50 Feet	9	19	14	10	20	15	12	22	17	9	16	12	7	18	13
50 to 60 Feet	12	17	14	12	16	14	13	15	14	10	17	13	11	19	15
60 to 70 Feet	10	11	10	11	10	10	9	8	8	9	11	10	11	13	12
70 to 80 Feet	7	6	6	8	6	7	5	3	4	6	5	5	8	8	8
80 to 90 Feet	4	2	3	4	2	3	3	1	2	4	2	3	6	3	4
90 to 100 Feet	3	1	2	3	1	2	2	1	2	3	1	2	5	2	3
above 100 Feet	39	9	24	36	6	21	36	9	22	42	13	27	40	8	24
Mean height Feet	101	56	78	99	51	75	95	52	74	106	61	84	105	58	81

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			8			7			10			7			10
% occur 2+ EL dcts			8			6			13			5			8
AVG station N			364			344			362			386			365
AVG station -N/Kft			23			22			25			21			23
AVG sfc wind Kts	10	9.4	10	10	10	10	10	10	10	9.8	8.7	8.8	10	9.0	9.5

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 29 10 N 118 19 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 76151 29 10 N 118 19 W
Radiosonde station height: 75 Feet
Surface obs source: MS84 25 00 N 115 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	5	2	3	3	2	3	5	3	4	4	2	3	7	3	5
1 GHz	39	15	27	34	16	25	36	13	24	40	15	27	46	16	31
3 GHz	46	19	32	41	20	31	41	15	28	47	19	33	55	21	38
6 GHz	66	37	52	63	40	52	59	27	43	66	35	50	75	47	61
10 GHz	85	72	79	86	74	80	82	66	74	83	68	76	91	81	86
20 GHz	91	87	89	93	89	91	89	85	87	89	84	87	95	91	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	23	13	18	17	13	15	16	9	13	22	14	18	35	14	25
AVG thickness Kft			.70			.56			.77			.88			.59
AVG trap freq GHz			.42			.49			.21			.59			.39
AVG lyr grd -N/Kft			118			143			107			116			106

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	66	66	66	56	60	58	80	80	80	71	75	73	56	50	53
AVG top ht Kft			2.8			3.3			2.6			2.6			2.6
AVG thickness Kft			.79			.54			.93			1.0			.69
AVG trap freq GHz			.13			.23			.08			.07			.14
AVG lyr grd -N/Kft			74			69			85			75			69
AVG lyr base Kft			2.3			2.9			2.2			2.0			2.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	6	5	4	4	8	6	7	10	9	9	4	3	4
10 to 20 Feet	4	9	7	4	8	6	5	10	7	5	10	7	4	7	5
20 to 30 Feet	8	17	13	8	17	13	9	22	15	8	18	13	6	12	9
30 to 40 Feet	11	21	16	12	21	17	13	24	18	10	20	15	10	19	15
40 to 50 Feet	13	18	16	14	18	16	14	18	16	11	18	14	13	19	15
50 to 60 Feet	11	11	11	11	12	12	11	9	10	10	10	10	13	15	14
60 to 70 Feet	8	6	7	8	6	7	7	3	5	7	5	6	9	9	9
70 to 80 Feet	5	3	4	5	3	4	4	2	3	5	2	3	7	5	6
80 to 90 Feet	3	1	2	3	2	2	2	1	2	3	1	2	4	2	3
90 to 100 Feet	2	1	1	2	1	1	2	1	1	2	1	1	3	1	2
above 100 Feet	27	7	17	26	8	17	25	5	15	31	7	19	27	7	17
Mean height Feet	80	46	63	80	50	65	76	41	58	83	43	63	84	52	68

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			5			2			3			4
% occur 2+ EL dcts			9			5			9			16			6
AVG station N			339			331			337			348			339
AVG station -N/Kft			22			17			24			25			21
AVG sfc wind Kts	12	11	11	12	11	11	13	13	13	11	11	11	11	11	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 N 125 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 76151 29 10 N 118 19 W
Radiosonde station height: 75 Feet
Surface obs source: MS85 25 00 N 125 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	5	2	3	3	2	3	5	3	4	4	2	3	7	3	5
1 GHz	35	13	24	28	12	20	34	11	23	36	14	25	41	14	27
3 GHz	42	17	29	35	16	25	40	14	27	43	18	31	49	18	34
6 GHz	65	39	52	61	39	50	63	33	48	64	37	51	73	47	60
10 GHz	88	80	84	87	80	84	88	77	82	86	77	81	92	84	88
20 GHz	94	92	93	94	93	93	93	91	92	93	90	91	96	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	23	13	18	17	13	15	16	9	13	22	14	18	35	14	25
AVG thickness Kft			.70			.56			.77			.88			.59
AVG trap freq GHz			.42			.49			.21			.59			.39
AVG lyr grd -N/Kft			118			143			107			116			106

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	66	66	66	56	60	58	80	80	80	71	75	73	56	50	53
AVG top ht Kft			2.8			3.3			2.6			2.6			2.6
AVG thickness Kft			.79			.54			.93			1.0			.69
AVG trap freq GHz			.13			.23			.08			.07			.14
AVG lyr grd -N/Kft			74			69			85			75			69
AVG lyr base Kft			2.3			2.9			2.2			2.0			2.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	4	3	4	4	3	3	4	3	3	6	4	5	3	1	2
10 to 20 Feet	3	6	5	3	5	4	4	6	5	4	7	6	3	4	4
20 to 30 Feet	7	14	11	8	14	11	7	16	12	8	16	12	7	12	9
30 to 40 Feet	12	22	17	13	23	18	13	26	19	11	23	17	10	18	14
40 to 50 Feet	17	23	20	19	24	22	16	23	20	16	22	19	17	24	21
50 to 60 Feet	14	15	15	16	16	16	13	14	13	13	13	13	16	20	18
60 to 70 Feet	9	6	8	9	6	8	9	5	7	7	5	6	11	9	10
70 to 80 Feet	6	3	4	5	2	4	5	2	4	5	2	3	7	4	5
80 to 90 Feet	3	1	2	3	1	2	3	1	2	3	1	2	3	2	2
90 to 100 Feet	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1
above 100 Feet	22	4	13	19	4	11	24	4	14	26	6	16	21	4	12
Mean height Feet	76	47	61	71	46	58	77	44	61	79	46	63	76	50	63

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			5			2			3			4
% occur 2+ EL dcts			9			5			9			16			6
AVG station N			339			331			337			348			339
AVG station -N/Kft			22			17			24			25			21
AVG sfc wind Kts	13	12	12	13	13	13	13	13	13	12	11	12	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 N 135 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YN 30 00 N 140 00 W
Radiosonde station height: 39 Feet
Surface obs source: MS86 25 00 N 135 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	0	2	3	1	2	2	1	1	3	0	2	1	0	1
1 GHz	34	8	21	30	8	19	35	8	21	42	10	26	28	6	17
3 GHz	43	12	27	40	12	26	42	12	27	50	14	32	38	10	24
6 GHz	71	45	58	68	44	56	69	42	56	75	46	60	71	49	60
10 GHz	90	83	87	89	81	85	90	83	87	91	84	87	90	86	88
20 GHz	95	93	94	94	91	93	95	94	94	95	93	94	95	94	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	3	12	22	5	14	17	4	11	25	2	14	15	2	9
AVG thickness Kft			.36			.29			.36			.45			.33
AVG trap freq GHz			1.0			.81			.75			.82			1.7
AVG lyr grd -N/Kft			115			67			88			149			157

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	47	66	57	38	57	48	51	67	59	53	68	61	47	71	59
AVG top ht Kft			5.2			5.2			5.0			5.5			5.3
AVG thickness Kft			.61			.57			.59			.66			.63
AVG trap freq GHz			.18			.20			.18			.16			.18
AVG lyr grd -N/Kft			68			66			69			71			68
AVG lyr base Kft			4.9			4.8			4.7			5.1			4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	4	3	3	4	4	4	4	2	3	4	2	3	3	2	3
10 to 20 Feet	3	5	4	4	6	5	2	5	4	3	5	4	3	4	3
20 to 30 Feet	6	10	8	7	11	9	6	11	8	5	10	8	6	9	7
30 to 40 Feet	9	17	13	10	17	13	9	19	14	8	16	12	9	15	12
40 to 50 Feet	14	22	18	15	21	18	15	24	19	12	22	17	13	22	18
50 to 60 Feet	14	18	16	14	18	16	13	18	16	13	18	15	14	19	16
60 to 70 Feet	11	10	11	12	10	11	10	9	10	10	9	10	13	13	13
70 to 80 Feet	7	6	7	8	5	6	6	5	5	7	6	6	9	7	8
80 to 90 Feet	4	2	3	4	2	3	3	2	3	3	2	3	5	2	4
90 to 100 Feet	3	1	2	3	1	2	2	1	2	3	1	2	3	1	2
above 100 Feet	26	6	16	21	5	13	28	6	17	33	9	21	23	5	14
Mean height Feet	83	53	68	75	50	63	85	52	68	91	57	74	81	54	68

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			3			5			6			2
% occur 2+ EL dcts			5			3			4			7			5
AVG station N			346			339			342			355			346
AVG station -N/Kft			15			15			15			17			16
AVG sfc wind Kts	14	13	13	15	14	14	13	13	13	12	12	12	14	13	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 N 145 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YN 30 00 N 140 00 W
Radiosonde station height: 39 Feet
Surface obs source: MS87 25 00 N 145 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESN COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	0	2	3	1	2	2	1	1	3	0	2	1	0	1
1 GHz	34	7	21	29	7	18	36	8	22	45	8	27	28	5	16
3 GHz	45	13	29	39	13	26	46	12	29	55	13	34	40	12	25
6 GHz	75	53	64	69	49	59	76	51	64	81	56	69	73	56	65
10 GHz	92	87	90	89	83	86	92	88	90	94	89	91	92	89	91
20 GHz	96	95	95	94	93	94	96	95	95	97	95	96	96	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	3	12	22	5	14	17	4	11	25	4	14	15	2	9
AVG thickness Kft			.36			.29			.36			.45			.33
AVG trap freq GHz			1.0			.81			.75			.82			1.7
AVG lyr grd -N Kft			115			67			88			149			151

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	47	66	57	38	57	48	51	67	59	53	68	61	47	71	59
AVG top ht Kft			5.2			5.2			5.0			5.5			5.3
AVG thickness Kft			.61			.57			.59			.66			.63
AVG trap freq GHz			.18			.20			.18			.16			.18
AVG lyr grd -N/Kft			68			66			69			71			68
AVG lyr base Kft			4.9			4.8			4.7			5.1			4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	4	3	4	3	2	2	3	1	2	2	2	2
10 to 20 Feet	2	4	3	4	5	4	2	3	3	2	4	3	2	3	3
20 to 30 Feet	5	7	6	7	10	8	4	7	6	4	6	5	5	6	5
30 to 40 Feet	8	14	11	10	16	13	7	15	11	6	12	9	8	12	10
40 to 50 Feet	12	21	17	14	20	17	12	23	18	11	21	16	13	21	17
50 to 60 Feet	13	21	17	14	19	16	14	21	18	12	22	17	14	21	17
60 to 70 Feet	12	13	13	12	12	12	12	12	12	10	14	12	13	15	14
70 to 80 Feet	9	8	8	9	7	8	9	7	8	8	8	8	10	9	10
80 to 90 Feet	5	3	4	5	3	4	5	2	4	5	3	4	6	5	5
90 to 100 Feet	4	2	3	3	1	2	3	1	2	4	2	3	4	2	3
above 100 Feet	27	5	16	19	5	12	29	6	17	36	7	22	23	4	14
Mean height Feet	86	55	71	72	52	62	90	55	73	99	59	79	81	56	69

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			3			5			6			2
% occur 2+ EL dcts			5			3			4			7			5
AVG station N			346			339			342			355			345
AVG station -N/Kft			15			15			15			17			16
AVG sfc wind Kts	15	14	14	16	15	16	14	14	14	13	13	13	15	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 21 58 N 159 21 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91165 21 58 N 159 21 W
Radiosonde station height: 118 Feet
Surface obs source: MS88 25 00 N 155 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESN COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	7	1	4	6	1	3	7	1	4	8	0	4	8	1	4
1 GHz	47	10	28	39	8	24	48	10	29	56	11	33	46	9	28
3 GHz	60	17	39	51	15	33	60	17	38	67	19	43	60	19	39
6 GHz	84	63	73	76	55	66	84	61	2	89	69	79	85	65	75
10 GHz	95	90	92	92	86	89	95	90	93	97	93	95	96	90	93
20 GHz	97	96	96	96	94	95	97	96	97	98	97	98	98	95	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	4	22	37	4	21	38	4	21	43	2	23	45	5	25
AVG thickness Kft			.37			.34			.40			.38			.35
AVG trap freq GHz			.51			.60			.50			.41			.54
AVG lyr grd -N/Kft			67			67			67			71			64

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	43	64	53	40	60	50	42	66	54	48	69	59	40	60	50
AVG top ht Kft			6.6			6.4			6.6			6.7			6.7
AVG thickness Kft			.52			.52			.53			.54			.51
AVG trap freq GHz			.26			.26			.26			.26			.28
AVG lyr grd -N/Kft			61			61			65			61			58
AVG lyr base Kft			6.2			6.0			6.2			6.3			6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	3	3	3	2	1	2	2	1	2	2	1	2
10 to 20 Feet	2	3	3	3	4	4	2	2	2	1	2	2	2	3	3
20 to 30 Feet	4	6	5	6	8	7	4	6	5	3	4	3	4	5	4
30 to 40 Feet	7	10	8	9	13	11	6	11	8	4	8	6	7	9	8
40 to 50 Feet	11	18	15	14	19	16	11	19	15	8	16	12	11	17	14
50 to 60 Feet	13	21	17	14	19	16	13	22	17	12	22	17	14	21	17
60 to 70 Feet	12	16	14	12	14	13	12	15	13	12	17	15	13	15	15
70 to 80 Feet	10	10	10	9	9	9	10	9	9	10	12	11	11	11	11
80 to 90 Feet	6	5	5	6	4	5	6	4	5	6	5	6	7	6	7
90 to 100 Feet	5	3	4	4	2	3	5	2	3	5	3	4	5	3	4
above 100 Feet	28	7	18	20	6	13	30	7	19	36	10	23	24	6	15
mean height Feet	88	61	74	76	56	66	92	60	76	101	66	83	84	60	72

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			8			6			6			8			10
% occur 2+ EL dcts			10			6			9			13			10
AVG station ht			362			354			362			367			364
AVG station -N/Kft			17			16			17			17			17
AVG sfc wind Kts	15	14	15	16	15	15	15	15	15	14	13	14	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 N 165 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91165 21 58 N 159 21 W
Radiosonde station height: 118 Feet
Surface obs source: MS89 25 00 N 165 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	7	1	4	6	1	3	7	1	4	8	0	4	8	1	4
1 GHz	47	12	30	39	10	24	49	13	31	56	14	35	45	10	28
3 GHz	60	21	40	51	17	34	60	21	40	68	24	46	60	21	40
6 GHz	83	65	74	76	56	66	83	63	73	85	73	81	84	68	76
10 GHz	94	90	92	91	85	88	94	90	92	97	94	96	95	92	93
20 GHz	97	96	96	95	93	94	97	96	96	99	97	98	97	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	4	22	37	4	21	38	4	21	43	2	23	45	5	25
AVG thickness Kft			.37			.34			.40			.38			.35
AVG trap freq GHz			.51			.60			.50			.41			.54
AVG lyr grd -N/Kft			67			67			67			71			64

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	43	64	53	40	60	50	42	66	54	48	69	59	40	60	50
AVG top ht Kft			6.6			6.4			6.6			6.7			6.7
AVG thickness Kft			.52			.52			.53			.54			.51
AVG trap freq GHz			.26			.26			.26			.26			.28
AVG lyr grd -N/Kft			61			61			65			61			58
AVG lyr base Kft			6.2			6.0			6.2			6.3			6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	3	3	3	3	2	3	1	1	1	2	1	2
10 to 20 Feet	2	3	3	4	4	4	2	3	2	1	2	2	2	3	2
20 to 30 Feet	4	6	5	6	8	7	4	6	5	3	3	3	4	5	4
30 to 40 Feet	7	10	8	9	12	11	7	10	8	4	7	6	7	9	8
40 to 50 Feet	11	17	14	13	17	15	11	18	14	9	15	12	11	16	13
50 to 60 Feet	13	20	16	14	18	16	13	20	16	12	21	17	14	20	17
60 to 70 Feet	12	15	14	11	14	13	11	14	13	12	17	14	13	17	15
70 to 80 Feet	10	11	10	9	9	9	9	9	9	10	12	11	11	12	11
80 to 90 Feet	6	5	5	5	4	5	5	4	5	7	7	7	7	7	7
90 to 100 Feet	4	3	4	3	2	3	4	2	3	4	3	4	6	4	5
above 100 Feet	28	10	19	21	7	14	31	11	21	37	13	25	23	7	15
Mean height Feet	88	64	76	76	57	67	92	64	78	103	70	86	82	63	72

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			8			6			6			8			10
% occur 2+ EL dcts			10			6			9			13			10
AVG station N			362			354			362			367			364
AVG station -N/Kft			17			16			17			17			17
AVG sfc wind Kts	14	14	14	15	15	15	14	14	14	13	13	13	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 28 13 N 177 22 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91066 28 13 N 177 22 W
Radiosonde station height: 0 Feet
Surface obs source: MS90 25 00 N 175 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	2	2	2	2	2	2	2	2	4	2	3	2	1	2
1 GHz	37	15	26	30	12	21	36	16	26	46	19	32	35	14	24
3 GHz	47	24	35	42	20	31	45	22	33	55	28	42	47	25	36
6 GHz	75	64	70	70	56	63	71	59	65	82	73	77	78	68	73
10 GHz	91	89	90	88	85	86	88	86	87	95	93	94	92	90	91
20 GHz	95	94	94	93	92	93	93	94	93	97	96	97	96	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	9	12	16	11	14	13	8	11	21	10	16	12	8	10
AVG thickness Kft			.39			.28			.40			.46			.43
AVG trap freq GHz			.56			.78			.43			.42			.63
AVG lyr grd -N/Kft			108			107			95			117			111

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	37	58	43	39	50	45	41	59	50	32	43	38	34	47	41
AVG top ht Kft			5.8			5.5			5.5			6.4			5.8
AVG thickness Kft			.47			.46			.51			.42			.51
AVG trap freq GHz			.31			.34			.25			.36			.27
AVG lyr grd -N/Kft			62			64			62			61			62
AVG lyr base Kft			5.5			5.2			5.1			6.1			5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	3	3	5	4	5	4	3	4	2	1	2	3	2	2
10 to 20 Feet	3	4	3	3	5	4	4	4	4	2	3	2	2	3	3
20 to 30 Feet	5	6	5	6	8	7	5	8	7	3	3	3	4	5	5
30 to 40 Feet	7	11	9	9	13	11	9	12	10	6	8	7	6	10	8
40 to 50 Feet	11	16	13	12	18	15	11	18	15	10	15	12	10	14	12
50 to 60 Feet	13	19	16	13	18	15	12	19	16	13	22	17	12	18	15
60 to 70 Feet	11	15	13	10	13	12	10	12	11	11	17	14	11	16	14
70 to 80 Feet	8	10	9	9	8	8	7	8	7	8	10	9	10	12	11
80 to 90 Feet	6	5	5	6	4	5	4	4	4	5	5	5	7	6	7
90 to 100 Feet	4	3	3	4	2	3	3	2	3	3	3	3	5	4	4
above 100 Feet	30	10	20	24	7	15	30	11	20	36	13	25	30	9	19
Mean height Feet	90	62	76	80	56	68	87	61	74	101	69	85	90	64	7

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			6			4			4			3
% occur 2+ EL dcts			8			6			12			10			6
AVG station H			357			343			356			369			359
AVG station -N/Kft			17			15			17			18			17
AVG sfc wind Kts	14	14	14	16	15	15	13	13	13	12	13	12	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 N 175 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91066 28 13 N 177 22 W
Radiosonde station height: 0 Feet
Surface obs source: MS91 25 00 N 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM _OH RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	2	2	2	2	2	2	2	2	4	2	3	2	1	2
1 GHz	39	12	26	30	10	20	38	12	25	48	14	31	40	14	27
3 GHz	50	21	35	42	18	30	46	18	32	57	22	40	54	27	41
6 GHz	76	61	69	71	55	63	70	50	60	82	68	75	81	69	75
10 GHz	90	87	89	87	84	86	87	82	84	94	91	93	94	91	92
20 GHz	94	94	94	92	92	92	92	91	92	97	96	96	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	9	12	16	11	14	13	8	11	21	10	16	12	8	10
AVG thickness Kft			.39			.28			.40			.46			.43
AVG trap freq GHz			.56			.78			.43			.42			.63
AVG lyr grd -N/Kft			108			107			95			117			111

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	37	50	43	39	50	45	41	59	50	32	43	38	34	47	41
AVG top ht Kft			5.8			5.5			5.5			6.4			5.8
AVG thickness Kft			.47			.46			.51			.42			.51
AVG trap freq GHz			.31			.34			.25			.36			.27
AVG lyr grd -N/Kft			62			64			62			61			62
AVG lyr base Kft			5.5			5.2			5.1			6.1			5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	4	3	4	6	4	5	6	4	5	2	2	2	3	2	2
10 to 20 Feet	2	4	3	3	5	4	3	6	4	2	3	2	1	3	2
20 to 30 Feet	4	7	6	6	9	7	6	10	8	3	5	4	3	5	4
30 to 40 Feet	8	11	9	8	14	11	8	16	12	5	8	6	5	8	7
40 to 50 Feet	10	17	14	10	18	14	11	19	15	10	17	14	9	15	12
50 to 60 Feet	11	19	15	12	19	15	12	17	14	12	22	17	9	18	13
60 to 70 Feet	10	14	12	12	14	13	9	11	10	11	17	14	11	15	13
70 to 80 Feet	9	9	9	10	8	9	7	6	6	8	11	9	10	12	11
80 to 90 Feet	6	5	6	6	4	5	4	3	4	5	5	5	8	8	8
90 to 100 Feet	4	3	3	4	2	3	3	2	2	3	2	3	6	4	5
above 100 Feet	32	7	19	23	4	13	32	6	19	39	7	23	35	10	22
Mean height Feet	92	58	75	79	52	65	91	53	72	103	62	82	3?	65	81

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			6			4			4			3
% occur 2+ EL dcts			8			6			12			10			6
AVG station N			357			343			356			369			359
AVG station -N/Kft			17			15			17			18			17
AVG sfc wind Kts	14	14	14	16	15	16	13	12	13	12	12	12	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 N 165 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91245 19 16 N 166 39 E
Radiosonde station height: 16 Feet
Surface obs source: MS92 25 00 N 165 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM CON RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	8	2	5	8	2	5	7	1	4	7	1	4	9	3	6
1 GHz	52	12	32	44	11	27	53	12	32	59	10	34	52	16	34
3 GHz	64	19	42	50	19	38	63	17	40	69	15	42	66	27	46
6 GHz	84	58	71	81	58	70	80	46	63	88	59	73	88	68	78
10 GHz	93	85	89	92	86	89	90	77	83	96	87	91	96	91	93
20 GHz	96	93	94	95	93	94	93	88	91	97	94	95	97	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	9	25	44	11	28	37	7	22	37	4	21	44	13	29
AVG thickness Kft			.42			.42			.43			.39			.43
AVG trap freq GHz			.41			.44			.38			.43			.40
AVG lyr grd -N/Kft			72			69			77			70			74

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	36	50	43	53	72	63	34	59	42	13	21	17	45	55	50
AVG top ht Kft			6.6			6.5			6.5			6.4			6.7
AVG thickness Kft			.51			.56			.50			.42			.57
AVG trap freq GHz			.39			.23			.29			.48			.22
AVG lyr grd -N/Kft			62			64			63			57			64
AVG lyr base Kft			6.2			6.2			6.2			6.1			6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	3	4	6	3	5	8	6	7	3	2	2	3	2	2
10 to 20 Feet	3	5	4	3	5	4	4	7	5	2	5	3	2	3	3
20 to 30 Feet	4	8	6	5	8	7	5	12	8	3	7	5	3	6	5
30 to 40 Feet	6	12	9	7	12	10	7	15	11	4	11	8	5	10	7
40 to 50 Feet	9	18	13	11	19	15	9	18	14	7	19	13	8	16	12
50 to 60 Feet	11	19	15	12	20	16	10	16	13	9	21	15	11	19	15
60 to 70 Feet	11	14	12	14	15	14	9	10	9	10	15	13	12	16	14
70 to 80 Feet	9	9	9	10	9	9	7	5	6	8	9	8	11	12	11
80 to 90 Feet	7	4	5	8	4	6	5	2	4	6	4	5	9	6	7
90 to 100 Feet	4	2	3	5	2	3	4	2	3	4	1	2	6	4	5
above 100 Feet	32	6	19	19	4	11	35	7	21	44	7	26	30	7	19
Mean height Feet	92	56	74	74	54	64	93	52	73	111	58	84	91	61	76

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			9			13			7			2			13
% occur 2+ EL dcts			9			11			8			4			12
AVG station N			378			366			377			388			380
AVG station -N/Kft			20			18			20			20			20
AVG sfc wind kts	14	13	14	17	16	16	12	12	12	12	11	12	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 24 18 N 154 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91131 24 18 N 154 00 E
Radiosonde station height: 56 Feet
Surface obs source: MS93 25 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	7	1	4	6	1	3	10	0	5	8	1	4	6	0	3
1 GHz	51	8	30	37	7	22	59	9	34	62	8	35	46	8	27
3 GHz	63	14	39	51	15	33	69	12	41	72	14	43	61	17	39
6 GHz	84	54	69	81	59	70	82	41	62	89	55	72	85	63	74
10 GHz	93	83	88	93	86	90	90	73	82	96	85	90	95	87	91
20 GHz	96	91	93	96	93	95	93	85	89	98	92	95	97	93	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	43	3	23	36	6	21	53	2	28	45	3	24	39	2	21
AVG thickness Kft			.40			.39			.40			.40			.41
AVG trap freq GHz			.53			.62			.42			.49			.58
AVG lyr grd -N/Kft			81			92			69			73			90

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	26	43	34	35	52	44	34	48	41	8	23	16	25	48	37
AVG top ht Kft			5.7			6.3			5.3			5.6			5.7
AVG thickness Kft			.51			.43			.51			.56			.53
AVG trap freq GHz			.30			.34			.26			.30			.30
AVG lyr grd -N/Kft			59			60			62			57			58
AVG lyr base Kft			5.3			6.0			4.9			5.1			5.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	4	4	4	3	4	11	8	9	3	2	2	3	2	2
10 to 20 Feet	3	6	4	2	4	3	4	8	6	2	6	4	2	5	3
20 to 30 Feet	4	8	6	4	8	6	5	12	9	3	7	5	4	6	5
30 to 40 Feet	6	12	9	7	11	9	6	14	10	5	12	8	5	10	8
40 to 50 Feet	9	18	13	11	18	14	9	19	14	7	19	13	9	15	12
50 to 60 Feet	11	19	15	14	20	17	9	15	12	10	20	15	11	19	15
60 to 70 Feet	11	14	12	14	16	15	8	9	8	9	14	11	11	17	14
70 to 80 Feet	9	9	9	12	10	11	6	5	6	7	8	8	11	12	11
80 to 90 Feet	6	4	5	8	5	6	4	2	3	5	4	4	9	6	7
90 to 100 Feet	4	2	3	5	2	3	3	1	2	3	1	2	6	3	4
above 100 Feet	32	6	19	19	3	11	35	8	21	46	6	26	29	7	18
Mean height Feet	92	55	74	76	54	65	91	51	71	112	57	85	89	59	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL≤SB dcts			5			7			8			1			3
% occur 2+ EL dcts			5			5			5			2			8
AVG station N			371			350			372			387			373
AVG station -N/Kft			20			16			21			22			20
AVG sfc wind Kts	14	13	14	17	16	16	12	11	12	12	11	11	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 27 06 N 142 18 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91030 27 06 N 142 18 E
Radiosonde station height: 33 Feet
Surface obs source: MS94 25 00 N 145 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	2	2	*	*	*	0	4	2	3	3	3	1	0	1
1 GHz	38	15	26	*	*	*	36	19	27	46	18	32	33	7	20
3 GHz	48	21	35	*	*	*	41	23	32	56	25	40	47	17	32
6 GHz	74	57	65	*	*	*	63	47	55	80	61	71	80	63	71
10 GHz	88	84	86	*	*	*	79	75	77	92	87	90	93	89	91
20 GHz	92	92	92	*	*	*	84	86	85	95	94	95	96	95	96

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	8	7	0	0	0	0	13	7	15	16	16	6	2	4
AVG thickness Kft			.39			*			.40			.37			.37
AVG trap freq GHz			.46			*			.19			.42			.77
AVG lyr grd -N/Kft			204			*			218			154			240

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	20	20	9	10	10	10	20	15	35	12	24	27	38	33
AVG top ht Kft			5.8			5.2			7.4			4.9			5.8
AVG thickness Kft			.45			.62			.47			.24			.46
AVG trap freq GHz			.55			.26			.23			1.3			.38
AVG lyr grd -N/Kft			67			73			74			59			60
AVG lyr base Kft			5.5			4.8			7.1			4.7			5.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	4	5	3	2	3	11	9	10	5	3	4	3	2	2
10 to 20 Feet	3	5	4	2	3	3	4	8	6	2	5	3	2	3	2
20 to 30 Feet	4	8	6	4	6	5	6	13	9	4	8	6	3	6	5
30 to 40 Feet	6	12	9	6	10	8	7	15	11	5	12	8	5	10	8
40 to 50 Feet	9	17	13	11	17	14	9	17	13	8	19	14	9	17	13
50 to 60 Feet	11	18	15	14	20	17	9	15	12	10	20	15	12	19	15
60 to 70 Feet	11	14	13	15	17	16	8	9	8	10	14	12	12	17	14
70 to 80 Feet	9	8	9	12	11	12	3	4	5	8	7	8	11	11	11
80 to 90 Feet	6	4	5	7	5	6	3	2	3	6	4	5	8	6	7
90 to 100 Feet	4	2	3	5	3	4	2	1	2	3	1	2	6	3	4
above 100 Feet	32	6	19	22	4	13	36	9	22	40	8	24	30	6	18
Mean height Feet	92	56	74	81	57	69	91	49	70	102	57	80	92	60	75

GENERAL METEOPOLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			1
% occur 2+ EL dcts			4			2			1			7			6
AVG station N			319			337			189			390			361
AVG station -N/Kft			15			15			9.4			21			16
AVG sfc wind Kts	14	13	13	15	15	15	12	11	11	13	12	12	15	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 24 48 N 141 18 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91115 24 48 N 141 18 E
Radiosonde station height: 348 Feet
Surface obs source: MS94 25 00 N 145 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	1	1	2	2	2	1	0	1	2	1	1
1 GHz	36	10	23	25	8	16	41	14	27	41	9	25	36	9	23
3 GHz	47	17	32	37	17	27	48	19	34	51	15	33	51	20	35
6 GHz	76	57	66	76	63	69	68	45	56	78	55	67	81	64	73
10 GHz	90	84	87	92	88	90	82	74	78	91	85	88	94	90	92
20 GHz	93	92	93	95	94	95	87	86	86	95	93	94	96	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	8	10	6	6	6	17	12	15	7	4	6	18	8	13
AVG thickness Kft			.42			.27			.59			.53			.28
AVG trap freq GHz			1.1			.58			.91			1.7			1.2
AVG lyr grd -N/Kft			151			192			118			138			157

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	31	37	34	31	45	38	29	41	35	33	26	30	29	34	32
AVG top ht Kft			5.7			5.4			5.0			6.3			6.3
AVG thickness Kft			.47			.46			.54			.43			.47
AVG trap freq GHz			.40			.36			.29			.36			.61
AVG lyr grd -N/Kft			63			63			65			61			63
AVG lyr base Kft			5.4			5.1			4.7			6.0			5.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	4	5	3	2	3	11	9	10	5	3	4	3	2	2
10 to 20 Feet	3	5	4	2	3	3	4	8	6	2	5	3	2	3	2
20 to 30 Feet	4	8	6	4	6	5	6	13	9	4	8	6	3	6	5
30 to 40 Feet	6	12	9	6	10	8	7	15	11	5	12	8	5	10	8
40 to 50 Feet	9	17	13	11	17	14	9	17	13	8	18	14	8	17	13
50 to 60 Feet	11	18	15	14	20	17	9	15	12	10	20	15	12	19	15
60 to 70 Feet	11	14	13	15	17	16	8	9	8	10	14	12	12	17	14
70 to 80 Feet	9	8	9	12	11	12	5	4	5	8	7	8	11	11	11
80 to 90 Feet	6	4	5	7	5	6	3	2	3	6	4	5	8	6	7
90 to 100 Feet	4	2	3	5	3	4	2	1	2	3	1	2	6	3	4
above 100 Feet	32	6	19	22	4	13	36	8	22	40	8	24	30	6	18
Mean height Feet	92	56	74	81	57	69	91	49	70	102	57	80	92	60	76

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			3			4			1			5
% occur 2+ EL dcts			8			6			11			9			8
AVG station N			353			312			362			382			357
AVG station -N/Kft			17			10			20			21			18
AVG sfc wind Kts	14	13	13	15	15	15	12	11	11	13	12	12	15	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 28 48 N 134 42 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YT 28 48 N 134 42 E
Radiosonde station height: 39 Feet
Surface obs source: MS95 25 00 N 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0	1	0	0	0	0	1	0	0
1 GHz	28	8	18	*	*	*	27	9	18	33	8	21	25	7	16
3 GHz	38	16	27	*	*	*	33	14	23	42	14	28	39	19	29
6 GHz	68	55	61	*	*	*	54	39	46	72	56	64	78	69	73
10 GHz	85	82	83	*	*	*	72	69	71	89	86	87	93	92	92
20 GHz	90	91	90	*	*	*	79	81	80	93	94	93	96	97	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	4	3	*	*	*	1	6	4	3	4	4	4	2	3
AVG thickness Kft			.25			*			.29			.20			.27
AVG trap freq GHz			1.5			*			1.1			2.4			.84
AVG lyr grd -N/Kft			222			*			306			242			120

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	10	13	12	*	*	*	9	12	11	7	9	8	15	18	17
AVG top ht Kft			5.1			*			4.8			4.9			5.7
AVG thickness Kft			.46			*			.35			.50			.54
AVG trap freq GHz			.48			*			.80			.36			.27
AVG lyr grd -N/Kft			57			*			55			55			60
AVG lyr base Kft			4.8			*			4.5			4.5			5.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	6	5	5	5	3	4	14	11	12	4	3	4	2	1	2
10 to 20 Feet	3	5	4	3	4	4	6	9	8	3	4	3	2	2	2
20 to 30 Feet	5	8	7	5	8	7	7	13	10	5	8	6	4	5	4
30 to 40 Feet	8	12	10	9	13	11	9	15	12	7	12	9	6	9	7
40 to 50 Feet	10	17	14	12	18	15	10	16	13	10	18	14	10	14	12
50 to 60 Feet	13	17	15	15	19	17	9	14	11	12	20	16	13	18	16
60 to 70 Feet	12	15	13	14	16	15	7	8	8	11	15	13	14	19	17
70 to 80 Feet	9	8	9	10	9	10	5	4	4	7	7	7	10	13	13
80 to 90 Feet	6	4	5	6	4	5	3	2	3	5	4	5	8	8	8
90 to 100 Feet	4	2	3	3	2	2	2	1	2	3	2	2	6	4	5
above 100 Feet	25	6	15	18	3	11	27	7	17	32	7	20	23	6	15
Mean height Feet	81	55	68	74	53	63	76	48	62	92	56	74	84	62	73

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			0			0			3
% occur 2+ EL dcts			1			0			0			1			3
AVG station N			372			*			366			386			364
AVG station -N/Kft			17			*			17			19			15
AVG sfc wind Kts	14	14	14	15	14	14	12	12	12	13	13	13	16	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 49 N 131 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47945 25 49 N 131 13 E
Radiosonde station height: 49 Feet
Surface obs source: MS95 25 00 N 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0
1 GHz	27	7	17	20	4	12	29	9	19	34	8	21	24	8	16
3 GHz	36	14	25	29	10	19	35	12	24	43	14	28	38	20	29
6 GHz	68	54	61	67	54	60	56	38	47	72	56	64	77	69	73
10 GHz	86	83	84	87	85	86	73	68	71	89	86	87	95	92	92
20 GHz	91	91	91	93	92	92	80	81	81	93	94	93	96	97	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	3	3	4	2	3	5	4	5	4	3	4	2	3	3
AVG thickness Kft			.37			.34			.35			.30			.48
AVG trap freq GHz			1.0			.91			.92			1.4			.58
AVG lyr grd -N/Kft			110			123			114			99			104

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	15	14	13	14	14	19	19	19	10	9	10	14	16	15
AVG top ht Kft			5.1			5.5			4.1			4.8			5.9
AVG thickness Kft			.46			.35			.59			.48			.43
AVG trap freq GHz			.44			.60			.25			.43			.49
AVG lyr grd -N/Kft			56			55			56			56			57
AVG lyr base Kft			4.7			5.2			3.7			4.4			5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	6	5	5	5	3	4	14	11	12	4	3	4	2	1	2
10 to 20 Feet	3	5	4	3	4	4	6	9	8	3	4	3	2	2	2
20 to 30 Feet	5	8	7	5	8	7	7	13	10	5	8	6	4	5	4
30 to 40 Feet	8	12	10	9	13	11	9	15	12	7	12	9	6	9	7
40 to 50 Feet	10	17	14	12	18	15	10	16	13	10	18	14	10	14	12
50 to 60 Feet	12	18	15	15	19	17	9	14	11	12	20	16	13	18	16
60 to 70 Feet	12	15	13	14	16	15	7	8	8	11	15	13	14	19	17
70 to 80 Feet	9	8	9	10	9	10	5	4	4	7	7	7	13	13	13
80 to 90 Feet	6	4	5	6	4	5	3	2	3	6	4	5	8	8	8
90 to 100 Feet	4	2	3	3	2	2	2	1	2	3	2	2	6	4	5
above 100 Feet	25	6	15	18	3	11	27	7	17	32	7	20	23	6	15
Mean height Feet	81	55	68	74	53	63	76	48	62	92	56	73	84	62	73

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			1			0			0
% occur 2+ EL dcts			1			1			2			0			0
AVG station N			365			337			375			389			358
AVG station -N/Kft			16			13			18			18			14
AVG sfc wind Kts	14	14	14	15	14	14	12	12	12	13	13	13	16	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 24 19 N 124 10 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47918 24 19 N 124 10 E
Radiosonde station height: 23 Feet
Surface obs source: MS96 25 00 N 125 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1
1 GHz	26	10	18	14	6	10	29	10	19	37	13	25	24	10	17
3 GHz	37	19	28	24	13	18	36	15	26	48	22	35	42	27	34
6 GHz	71	60	65	66	58	62	62	45	53	76	62	69	79	73	76
10 GHz	88	85	86	88	86	87	81	75	78	90	87	88	93	91	92
20 GHz	92	92	92	93	93	93	87	85	86	93	93	93	96	96	

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	3	3	2	2	2	5	2	4	4	4	4	3	2	3
AVG thickness Kft			.35			.29			.30			.28			.53
AVG trap freq GHz			1.5			1.4			1.2			3.1			.26
AVG lyr grd -N/Kft			171			234			160			193			99

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	11	12	12	9	12	11	15	15	15	9	9	9	10	13	12
AVG top ht Kft			5.7			6.8			4.2			5.0			6.6
AVG thickness Kft			.43			.35			.50			.47			.40
AVG trap freq GHz			.53			.64			.38			.48			.61
AVG lyr grd -N/Kft			56			55			55			56			57
AVG lyr base Kft			5.3			6.6			3.8			4.6			6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	4	5	4	3	4	10	8	9	4	3	4	3	2	2
10 to 20 Feet	3	4	3	3	4	4	4	6	5	2	4	3	2	2	2
20 to 30 Feet	5	7	6	5	7	6	6	11	9	4	7	5	3	5	4
30 to 40 Feet	7	10	9	9	11	10	9	15	12	6	10	8	6	7	6
40 to 50 Feet	10	15	13	14	18	16	11	16	13	9	15	12	9	12	10
50 to 60 Feet	12	17	14	16	20	18	11	14	13	10	18	14	11	15	13
60 to 70 Feet	12	14	13	16	16	16	9	10	10	10	15	12	14	17	15
70 to 80 Feet	10	10	10	11	10	11	7	6	6	8	9	9	13	15	14
80 to 90 Feet	7	6	6	6	5	5	4	3	4	6	5	6	10	10	10
90 to 100 Feet	4	3	4	3	2	3	3	2	2	4	3	3	7	6	7
above 100 Feet	25	9	17	14	5	9	27	9	18	36	12	24	23	8	15
Mean height Feet	83	60	71	69	56	62	80	54	67	99	65	82	82	66	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			1			0			0
% occur 2+ EL dcts			1			1			1			1			0
AVG station N			368			345			379			388			359
AVG station -N/Kft			16			13			17			18			14
AVG sfc wind Kts	15	15	15	16	16	16	13	12	13	14	13	13	18	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 26 24 N 127 48 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47931 26 24 N 127 48 E
Radiosonde station height: 213 Feet
Surface obs source: MS9S 25 00 N 125 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	1	2	2	2	2	3	1	2	4	1	2	4	1	3
1 GHz	34	13	23	19	11	15	36	13	24	46	14	30	34	13	24
3 GHz	46	23	34	30	20	25	44	19	32	57	22	40	52	30	41
6 GHz	75	62	68	69	62	65	67	48	58	81	62	71	83	75	79
10 GHz	90	85	88	89	87	88	84	76	80	92	87	89	94	92	93
20 GHz	94	92	93	94	94	94	89	86	88	95	93	94	97	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	8	14	12	12	12	19	7	13	23	3	13	26	9	18
AVG thickness Kft			.34			.30			.39			.36			.33
AVG trap freq GHz			.64			.81			.55			.48			.71
AVG lyr grd -N/Kft			103			120			96			76			120

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	31	39	35	30	37	34	36	42	39	27	37	32	31	41	36
AVG top ht Kft			5.5			5.5			4.4			5.9			6.2
AVG thickness Kft			.39			.36			.47			.36			.38
AVG trap freq GHz			.41			.42			.27			.51			.45
AVG lyr grd -N/Kft			61			64			64			59			58
AVG lyr base Kft			5.2			5.2			4.1			5.7			6.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	4	5	4	3	4	10	8	9	4	3	4	3	2	2
10 to 20 Feet	3	4	3	3	4	4	4	6	5	2	4	3	2	2	2
20 to 30 Feet	5	7	6	5	7	6	6	11	9	4	7	5	3	5	4
30 to 40 Feet	7	10	9	9	11	10	9	15	12	6	10	8	6	7	6
40 to 50 Feet	10	15	13	14	18	16	11	16	13	9	15	12	9	12	10
50 to 60 Feet	12	17	14	16	20	18	11	14	13	10	18	14	11	15	13
60 to 70 Feet	12	14	13	16	16	16	9	10	10	10	15	12	14	17	15
70 to 80 Feet	10	10	10	11	10	11	7	6	6	8	9	9	13	15	14
80 to 90 Feet	7	6	6	6	5	5	4	3	4	6	5	6	10	10	10
90 to 100 Feet	4	3	4	3	2	3	3	2	2	4	3	3	7	6	7
above 100 Feet	25	9	17	14	5	9	27	9	18	36	12	24	23	8	15
Mean height Feet	83	66	71	69	56	62	80	54	67	99	65	82	82	66	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			2			5			3			6
% occur 2+ EL dcts			8			5			9			10			6
AVG station N			357			330			366			384			348
AVG station -N/Kft			18			14			19			21			16
AVG sfc wind Kts	15	15	15	16	16	16	13	12	13	14	13	13	18	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 26 12 N 127 40 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47936 26 12 N 127 40 E
Radiosonde station height: 95 Feet
Surface obs source: MS96 25 00 N 125 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0	0	0	0	0	0	0	0	0
1 GHz	29	10	20	*	*	*	28	9	18	36	13	24	23	9	16
3 GHz	41	20	30	*	*	*	35	14	25	47	20	34	40	26	33
6 GHz	71	60	66	*	*	*	61	44	53	75	62	68	78	73	75
10 GHz	87	84	86	*	*	*	80	74	77	89	86	88	93	91	92
20 GHz	92	91	92	*	*	*	87	85	86	93	93	93	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	2	1	2	0	1	1	0	1	1
AVG thickness Kft			.33			*			.44			.26			.28
AVG trap freq GHz			1.4			*			1.7			1.4			1.1
AVG lyr grd -N/Kft			701			*			376			999			459

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	11	13	12	10	13	12	17	16	17	9	12	11	9	12	11
AVG top ht Kft			4.8			4.6			4.8			4.4			6.8
AVG thickness Kft			.47			.34			.67			.4[illegible]			.39
AVG trap freq GHz			.82			.82			.23			.48			1.7
AVG lyr grd -N/Kft			56			55			60			55			54
AVG lyr base Kft			4.4			4.3			3.6			4 0			5.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	4	5	4	3	4	10	8	9	4	3	4	3	2	2
10 to 20 Feet	3	4	3	3	4	4	4	6	5	2	4	3	2	2	2
20 to 30 Feet	5	7	6	5	7	6	6	11	9	4	7	5	3	5	4
30 to 40 Feet	7	10	9	9	11	10	9	15	12	6	10	8	6	7	6
40 to 50 Feet	10	15	13	14	18	16	11	16	13	9	15	12	9	12	10
50 to 60 Feet	12	17	14	16	20	18	11	14	13	10	18	14	11	15	13
60 to 70 Feet	12	14	13	16	16	16	9	10	10	10	15	12	14	17	15
70 to 80 Feet	10	10	10	11	10	11	7	6	6	8	9	9	13	15	14
80 to 90 Feet	7	6	6	6	5	5	4	3	4	6	5	6	10	10	10
90 to 100 Feet	4	3	4	3	2	3	3	2	2	4	3	3	7	6	7
above 100 Feet	25	9	17	14	5	9	27	9	18	36	12	24	23	8	15
Mean height Feet	83	60	71	69	56	62	80	54	67	99	65	82	82	66	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			1			1			0			1			0
AVG station N			363			338			374			387			354
AVG station -N/Kft			15			13			17			18			13
AVG sfc wind Kts	15	15	15	16	16	16	13	12	13	14	13	13	18	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 28 22 N 129 33 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47909 28 22 N 129 33 E
Radiosonde station height: 968 Feet
Surface obs source: MS96 25 00 N 125 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
1 GHz	25	9	17	14	5	9	27	11	19	37	13	25	23	8	15
3 GHz	36	19	27	23	12	17	35	17	26	47	21	34	40	25	33
6 GHz	70	59	65	66	57	61	61	46	53	75	62	69	78	72	75
18 GHz	88	85	86	88	86	87	80	75	78	89	86	88	93	91	92
20 GHz	92	92	92	93	93	93	86	86	86	93	93	93	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	0	1	1	4	3	1	1	1	0	0	0
AVG thickness Kft			.89			.24			1.0			1.3			1.0
AVG trap freq GHz			.43			.84			.53			.21			.15
AVG lyr grd -M/Kft			120			171			109			97			102

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	16	15	9	8	9	24	25	25	10	14	12	14	15	15
AVG top ht Kft			4.2			4.5			3.2			4.3			4.6
AVG thickness Kft			.53			.31			.61			.72			.48
AVG trap freq GHz			.39			.74			.23			.18			.40
AVG lyr grd -M/Kft			57			61			56			57			56
AVG lyr base Kft			3.8			4.3			2.7			3.8			4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	4	5	4	3	4	10	8	9	4	3	4	3	2	2
10 to 20 Feet	3	4	3	3	4	4	4	6	5	2	4	3	2	2	2
20 to 30 Feet	5	7	6	5	7	6	6	11	9	4	7	5	3	5	4
30 to 40 Feet	7	10	9	9	11	10	9	15	12	6	10	8	6	7	6
40 to 50 Feet	10	15	13	14	18	16	11	16	13	9	15	12	9	12	10
50 to 60 Feet	12	17	14	16	20	18	11	14	13	10	18	14	11	15	13
60 to 70 Feet	12	14	13	16	16	16	9	10	10	10	15	12	14	17	15
70 to 80 Feet	10	10	10	11	10	11	7	6	6	8	9	9	13	15	14
80 to 90 Feet	7	6	6	6	5	5	4	3	4	6	5	6	10	10	10
90 to 100 Feet	4	3	4	3	2	3	3	2	2	4	3	3	7	6	7
above 100 Feet	25	9	17	14	5	9	27	9	18	36	12	24	23	8	15
Mean height Feet	83	60	71	69	56	62	80	54	67	99	65	82	82	66	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			1			0			2			0			1
AVG station N			344			322			348			373			332
AVG station -N/Kft			15			12			17			19			13
AVG sfc wind kts	15	15	15	16	16	16	13	12	13	14	13	13	18	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMAR

Specified location: 28 27 N 121 52 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 58666 28 27 N 121 52 E
Radiosonde station height: 676 Feet
Surface obs source: MS96 25 00 N 125 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	0	0	0	1	2	1	4	0	2	0	0	0
1 GHz	27	10	18	15	5	10	29	15	22	40	12	26	23	8	16
3 GHz	38	19	29	25	12	18	37	21	29	50	20	35	40	25	33
6 GHz	71	60	65	67	57	62	62	49	56	77	61	69	78	72	75
10 GHz	88	85	86	88	86	87	81	77	79	90	86	88	93	91	92
20 GHz	93	92	92	94	93	93	87	86	87	94	93	93	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	2	3	6	0	3	5	9	7	6	0	3	1	0	1
AVG thickness Kft			.57			.15			.60			1.5			.08
AVG trap freq GHz			1.3			3.6			.45			.06			1.1
AVG lyr grd -N/Kft			264			319			128			94			517

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	5	5	2	0	1	5	7	6	6	8	7	3	5	4
AVG top ht Kft			4.9			5.0			3.4			2.6			8.4
AVG thickness Kft			.43			.20			.54			.70			.29
AVG trap freq GHz			.94			1.9			.41			.27			1.2
AVG lyr grd -N/Kft			58			53			57			57			63
AVG lyr base Kft			4.5			4.9			2.9			2.1			8.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	4	5	4	3	4	10	8	9	4	3	4	3	2	2
10 to 20 Feet	3	4	3	3	4	4	4	6	5	2	4	3	2	2	2
20 to 30 Feet	5	7	6	5	7	6	6	11	9	4	7	5	3	5	4
30 to 40 Feet	7	10	9	9	11	10	9	15	12	6	10	8	6	7	6
40 to 50 Feet	13	15	13	14	18	16	11	16	13	9	15	12	9	12	10
50 to 60 Feet	12	17	14	16	20	18	11	14	13	10	18	14	11	15	13
60 to 70 Feet	12	14	13	16	16	16	9	10	10	10	15	12	14	17	15
70 to 80 Feet	10	10	10	11	10	11	7	6	6	8	9	9	13	15	14
80 to 90 Feet	7	6	6	6	5	5	4	3	4	6	5	6	10	10	10
90 to 100 Feet	4	3	4	3	2	3	3	2	2	4	3	3	7	6	7
above 100 Feet	25	9	17	14	5	9	27	9	18	36	12	24	23	8	15
Mean height Feet	83	60	71	69	55	62	80	54	67	99	65	82	82	66	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			1			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			343			315			349			373			335
AVG station -N/Kft			13			12			16			20			13
AVG sfc wind kts	15	15	15	16	16	16	13	12	13	14	13	13	18	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 01 N 121 31 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 46692 25 01 N 121 31 E
Radiosonde station height: 30 Feet
Surface obs source: MSS6 25 00 N 125 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	0	0	0	0	0	0	1	1	1	1	0	1
1 GHz	27	10	18	14	6	10	28	10	19	40	15	27	24	10	17
3 GHz	38	20	29	23	13	18	35	15	25	51	24	37	42	26	34
6 GHz	71	60	65	66	58	62	61	45	53	77	63	70	79	73	76
10 GHz	88	85	86	88	86	87	80	75	78	90	87	89	93	91	92
20 GHz	92	92	92	93	93	93	87	85	86	94	93	94	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	3	4	1	2	2	3	2	3	9	6	8	3	2	3
AVG thickness Kft			.35			.49			.26			.27			.37
AVG trap freq GHz			.67			.27			1.4			.72			.32
AVG lyr grd -N/Kft			337			289			306			548			205

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	8	7	4	7	6	6	8	7	9	10	10	8	7	8
AVG top ht Kft			6.7			6.0			7.5			6.1			7.3
AVG thickness Kft			.59			.43			.67			.74			.54
AVG trap freq GHz			.29			.54			.23			.19			.21
AVG lyr grd -N/Kft			66			71			63			59			73
AVG lyr base Kft			6.3			5.7			7.0			5.6			7.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	4	5	4	3	4	10	8	9	4	3	4	3	2	2
10 to 20 Feet	3	4	3	3	4	4	4	6	5	2	4	3	2	2	2
20 to 30 Feet	5	7	6	5	7	6	6	11	9	4	7	5	3	5	4
30 to 40 Feet	7	10	9	9	11	10	9	15	12	6	10	8	6	7	6
40 to 50 Feet	10	15	13	14	18	16	11	16	13	9	15	12	9	12	10
50 to 60 Feet	12	17	14	16	20	18	11	14	13	10	18	14	11	15	13
60 to 70 Feet	12	14	13	16	16	16	9	10	10	10	15	12	14	17	15
70 to 80 Feet	10	10	10	11	10	11	7	6	6	8	9	9	13	15	14
80 to 90 Feet	7	6	6	6	5	5	4	3	4	6	5	6	10	10	10
90 to 100 Feet	4	3	4	3	2	3	3	2	2	4	3	3	7	6	7
above 100 Feet	25	9	17	14	5	9	27	9	18	36	12	24	23	8	15
Mean height Feet	33	60	71	69	56	62	80	54	67	99	55	82	82	66	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			2			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			366			344			376			383			359
AVG station -N/Kft			15			13			16			17			14
AVG sfc wind Kts	15	15	15	16	16	16	13	12	13	14	13	13	18	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 03 N 121 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 46697 25 03 N 121 13 E
Radiosonde station height: 157 Feet
Surface obs source: MS96 25 00 N 125 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1
1 GHz	27	11	19	16	6	11	30	12	21	40	16	28	24	10	17
3 GHz	39	21	30	25	14	19	38	17	28	51	24	38	42	28	35
6 GHz	72	61	66	67	58	62	63	47	55	77	64	71	79	74	76
10 GHz	88	85	87	88	86	87	82	76	79	90	87	89	93	92	92
20 GHz	93	92	92	94	93	93	88	86	87	94	93	94	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	6	7	4	3	4	10	7	9	11	8	10	5	5	5
AVG thickness Kft			.28			.22			.28			.28			.36
AVG trap freq GHz			1.2			.75			1.7			1.6			1.3
AVG lyr grd -N/Kft			137			141			141			142			125

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	22	27	24	25	37	31	20	24	22	15	19	17	27	26	27
AVG top ht Kft			5.8			6.3			5.1			5.4			6.4
AVG thickness Kft			.45			.36			.52			.50			.44
AVG trap freq GHz			.34			.44			.30			.26			.36
AVG lyr grd -N/Kft			59			59			58			59			60
AVG lyr base Kft			5.5			6.1			4.7			5.1			6.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	4	5	4	3	4	10	8	9	4	3	4	3	2	2
10 to 20 Feet	3	4	3	3	4	4	4	6	5	2	4	3	2	2	2
20 to 30 Feet	5	7	6	5	7	6	6	11	9	4	7	5	3	5	4
30 to 40 Feet	7	10	9	9	11	10	9	15	12	6	10	8	6	7	6
40 to 50 Feet	10	15	13	14	18	16	11	16	13	9	15	12	9	12	10
50 to 60 Feet	12	17	14	16	20	18	11	14	13	10	18	14	11	15	13
60 to 70 Feet	12	14	13	16	16	16	9	10	10	10	15	12	14	17	15
70 to 80 Feet	10	10	10	11	10	11	7	6	6	8	9	9	13	15	14
80 to 90 Feet	7	6	6	6	5	5	4	3	4	6	5	6	10	10	10
90 to 100 Feet	4	3	4	3	2	3	3	2	2	4	3	3	7	6	7
above 100 Feet	25	9	17	14	5	9	27	9	18	36	12	24	23	8	15
Mean height Feet	83	60	71	69	56	62	80	54	67	99	65	82	82	66	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			1			1
% occur 2+ EL dcts			4			7			5			3			3
AVG station N			361			341			371			381			350
AVG station -N/Kft			16			14			18			19			15
AVG sfc duct Kts	15	15	15	16	16	16	13	12	13	14	13	13	18	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 22 28 N 120 25 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 46747 22 28 N 120 25 E
Radiosonde station height: 26 Feet
Surface obs source: HS96 25 00 N 125 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	2	1	1	1	1	1	2	1	1	2	2	2	1	2
1 GHz	29	14	21	18	8	13	30	16	23	40	19	29	27	13	20
3 GHz	40	24	32	27	16	22	38	23	30	50	27	39	44	30	37
6 GHz	72	62	67	68	59	64	63	51	57	77	65	71	80	74	77
10 GHz	88	86	87	89	87	88	81	78	79	90	88	89	93	92	93
20 GHz	93	93	93	94	93	94	87	87	87	94	94	94	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	10	9	8	6	7	7	14	11	8	11	10	8	7	8
AVG thickness Kft			.42			.41			.44			.41			.42
AVG trap freq GHz			.58			.70			.75			.49			.37
AVG lyr grd -N/Kft			136			170			124			137			113

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	21	20	30	31	31	10	19	15	9	14	12	29	20	25
AVG top ht Kft			7.1			7.7			6.5			7.4			6.9
AVG thickness Kft			.45			.43			.49			.45			.42
AVG trap freq GHz			.38			.41			.33			.45			.35
AVG lyr grd -N/kft			60			61			63			56			61
AVG lyr base Kft			6.8			7.4			6.2			7.0			6.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	4	5	4	3	4	10	8	9	4	3	4	3	2	2
10 to 20 Feet	3	4	3	3	4	4	4	6	5	2	4	3	2	2	2
20 to 30 Feet	5	7	6	5	7	6	6	11	9	4	7	5	3	5	4
30 to 40 Feet	7	10	9	9	11	10	9	15	12	6	10	8	6	7	6
40 to 50 Feet	10	15	13	14	18	16	11	16	13	9	15	12	9	12	10
50 to 60 Feet	12	17	14	16	20	18	11	14	13	10	18	14	11	15	13
60 to 70 Feet	12	14	13	16	16	16	9	10	10	10	15	12	14	17	15
70 to 80 Feet	10	10	10	11	10	11	7	6	6	8	9	9	13	15	14
80 to 90 Feet	7	6	6	6	5	5	4	3	4	6	5	6	10	10	10
90 to 100 Feet	4	3	4	3	2	3	3	2	2	4	3	3	7	6	7
above 100 Feet	25	9	17	14	5	9	27	9	18	36	12	24	23	8	15
Mean height Feet	83	60	71	69	56	62	80	54	67	99	65	82	82	66	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			2			2			1			2
% occur 2+ EL dcts			3			4			1			2			7
AVG station N			374			355			384			391			367
AVG station -N/Kft			18			16			20			20			17
AVG sfc wind Kts	15	15	15	16	16	16	13	12	13	14	13	13	18	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 20 01 N 110 21 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 59758 20 01 N 110 21 E
Radiosonde station height: 59 Feet
Surface obs source: MS97 25 00 N 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	2	2	1	1	1	3	2	3	3	2	2	2	2	2
1 GHz	29	16	22	17	9	13	35	19	27	41	21	31	21	16	18
3 GHz	39	24	32	24	14	19	44	25	34	52	29	40	37	29	33
6 GHz	67	56	61	56	46	51	63	49	56	74	59	67	74	69	72
10 GHz	85	81	83	83	78	80	80	75	77	88	83	86	91	90	90
20 GHz	91	90	90	90	88	89	86	85	85	93	91	92	95	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	17	13	15	9	4	7	26	18	22	22	15	19	10	14	12
AVG thickness Kft			.25			.31			.22			.16			.33
AVG trap freq GHz			.77			.80			.85			.92			.51
AVG lyr grd -N/Kft			136			153			142			121			126

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	4	4	6	7	7	3	3	3	3	2	3	4	5	5
AVG top ht Kft			4.6			6.4			2.9			3.6			5.5
AVG thickness Kft			.48			.45			.45			.52			.51
AVG trap freq GHz			.78			.70			1.6			.48			.31
AVG lyr grd -N/Kft			*9			56			64			58			58
AVG lyr base Kft						6.1			2.6			3.2			5.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUPRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	7	7	5	7	12	11	11	6	6	6	3	3	3
10 to 20 Feet	4	5	5	4	6	5	6	7	7	3	5	4	3	3	3
20 to 30 Feet	6	10	8	8	11	9	8	12	10	5	10	7	4	6	5
30 to 40 Feet	10	13	11	13	14	14	10	15	13	8	11	9	7	10	8
40 to 50 Feet	12	16	14	15	19	17	11	15	13	10	16	13	11	14	12
50 to 60 Feet	12	15	14	16	17	17	10	14	12	10	15	12	13	16	14
60 to 70 Feet	11	11	11	11	10	11	7	7	7	10	12	11	15	16	15
70 to 80 Feet	8	7	8	7	6	6	5	5	5	7	6	7	13	13	13
80 to 90 Feet	5	4	5	4	3	3	3	2	3	5	4	4	9	8	9
90 to 100 Feet	4	2	3	2	1	2	2	1	2	4	2	3	6	5	6
above 100 Feet	22	10	16	13	7	10	24	10	17	34	15	24	15	7	11
Mean height Feet	75	58	67	63	52	57	74	53	63	93	64	78	72	62	67

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			1
% occur 2+ EL dcts			0			0			0			0			0
AVG station H			372			351			383			389			363
AVG station -N/Kft			17			13			19			19			16
AVG sfc wind Kts	16	15	15	17	16	17	12	11	12	13	12	12	22	20	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 22 19 N 114 10 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 45004 22 19 N 114 10 E
Radiosonde station height: 213 Feet
Surface obs source: MS97 25 00 N 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	22	10	16	13	7	10	24	11	18	35	15	25	17	7	12
3 GHz	31	17	24	19	11	15	30	15	22	44	21	32	32	20	26
6 GHz	62	51	56	53	44	48	52	40	46	70	54	62	73	65	69
10 GHz	83	79	81	81	77	79	74	70	72	86	80	83	90	88	89
20 GHz	89	88	89	89	88	88	81	82	82	91	90	90	94	94	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	1	2	1	0	1	0	2	1	5	1	3	3	0	2
AVG thickness Kft			.34			.19			.58			.25			.35
AVG trap freq GHz			2.1			3.1			1.9			2.5			.80
AVG lyr grd -M/Kft			256			391			165			149			320

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	11	8	5	7	6	5	13	9	4	16	10	3	7	5
AVG top ht Kft			4.3			5.1			3.6			3.4			5.3
AVG thickness Kft			.37			.27			.35			.37			.49
AVG trap freq GHz			.56			1.1			.45			.63			.47
AVG lyr grd -M/Kft			57			52			59			59			EPR
AVG lyr base Kft			4.2			4.9			3.3			3.1			5.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPPENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	7	7	5	7	12	11	11	6	6	6	3	3	3
10 to 20 Feet	4	5	5	4	6	5	6	7	7	3	5	4	3	3	3
20 to 30 Feet	6	10	8	8	11	9	8	12	10	5	10	7	4	6	5
30 to 40 Feet	10	13	11	13	14	14	10	15	13	8	11	9	7	10	8
40 to 50 Feet	12	16	14	15	19	17	11	15	13	10	15	13	11	14	12
50 to 60 Feet	12	15	14	16	17	17	10	14	12	10	15	12	13	16	14
60 to 70 Feet	11	11	11	11	10	11	7	7	7	10	12	11	15	16	15
70 to 80 Feet	8	7	8	7	6	6	5	5	5	7	6	7	13	13	13
80 to 90 Feet	5	4	5	4	3	3	3	2	3	5	4	4	9	8	9
90 to 100 Feet	4	2	3	2	1	2	2	1	2	4	2	3	6	5	5
above 100 Feet	22	10	16	13	7	10	24	10	17	34	15	24	15	7	11
Mean height Feet	75	58	67	63	52	57	74	53	63	93	64	79	72	62	67

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			1			1			0			1			0
AVG station N			363			342			378			385			346
AVG station -N/Kft			15			12			18			18			13
AVG sfc wind Kts	16	15	15	17	16	17	12	11	12	13	12	12	22	20	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 23 31 N 119 34 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 46734 23 31 N 119 34 E
Radiosonde station height: 125 Feet
Surface obs source: MS97 25 30 N 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	1	1	2	1	1	2	1	1	0	1	1
1 GHz	25	13	19	16	12	14	30	13	21	38	18	28	17	10	13
3 GHz	35	20	28	23	17	20	37	17	27	47	25	36	32	23	28
6 GHz	64	53	59	55	48	51	58	42	50	72	56	64	73	66	69
10 GHz	84	80	82	82	79	80	77	71	74	87	81	84	90	89	90
20 GHz	90	89	89	90	88	89	84	83	83	92	90	91	94	95	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	7	8	5	7	6	15	6	11	12	8	10	3	5	4
AVG thickness Kft			.55			.53			.49			.38			.81
AVG trap freq GHz			.79			.36			1.1			1.0			.78
AVG lyr grd -N/Kft			133			139			142			123			127

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	34	31	33	36	44	40	26	33	30	38	21	30	36	26	31
AVG top ht Kft			4.4			5.9			4.8			3.3			3.6
AVG thickness Kft			.51			.42			.51			.57			.55
AVG trap freq GHz			.29			.39			.27			.29			.23
AVG lyr grd -N/Kft			61			61			62			60			60
AVG lyr base Kft			4.1			5.6			4.4			2.9			3.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUPRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	7	7	6	7	12	11	11	6	6	6	3	3	3
10 to 20 Feet	4	5	5	4	6	5	6	7	7	3	5	4	3	3	3
20 to 30 Feet	6	10	8	8	11	9	8	12	10	5	10	7	4	6	5
30 to 40 Feet	10	13	11	13	14	14	10	15	13	8	11	9	7	10	8
40 to 50 Feet	12	16	14	15	19	17	11	15	13	10	16	13	11	14	12
50 to 60 Feet	12	15	14	16	17	17	10	14	12	10	15	12	13	16	14
60 to 70 eet	11	11	11	11	10	11	7	7	7	10	12	11	15	16	15
70 to 80 Feet	8	7	8	7	6	6	5	5	5	7	6	7	13	13	13
80 to 90 Feet	5	4	5	4	3	3	3	2	3	5	4	4	9	8	9
90 to 100 Feet	4	2	3	2	1	2	2	1	2	4	2	3	6	5	6
above 100 Feet	22	10	15	13	7	10	24	10	17	34	15	24	15	7	11
Mean height Feet	75	58	67	63	52	57	74	53	63	93	64	79	72	62	67

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			2			2			2			2
% occur 2+ EL dcts			7			10			5			7			5
AVG station N			368			346			379			390			357
AVG station -N/Kft			19			15			20			23			16
AVG sfc wind Kts	16	15	15	17	16	17	12	11	12	13	12	12	22	20	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 20 40 N 116 43 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 46810 20 40 N 116 43 E
Radiosonde station height: 20 Feet
Surface obs source: MS97 25 00 N 115 90 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	2	3	2	0	1	7	5	6	6	3	5	1	1	1
1 GHz	33	18	25	19	7	13	45	27	36	49	26	38	28	10	19
3 GHz	44	26	35	26	11	18	55	34	44	61	36	48	36	24	30
6 GHz	70	57	64	57	44	50	71	55	63	80	64	72	74	67	70
10 GHz	87	82	85	83	77	80	84	78	81	91	85	88	91	89	90
20 GHz	92	90	91	90	88	89	89	87	88	95	92	93	95	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	26	15	21	9	0	5	41	27	34	44	27	36	10	7	9
AVG thickness Kft			.42			.79			.46			.23			.20
AVG trap freq GHz			.69			.33			.47			.95			1.0
AVG lyr grd -N/Kft			183			144			141			162			285

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	25	16	21	43	25	34	16	20	18	5	8	7	35	11	23
AVG top ht Kft			6.3			6.4			3.6			6.6			8.5
AVG thickness Kft			.76			.47			.67			1.1			.81
AVG trap freq GHz			.29			.41			.32			.32			.31
AVG lyr grd -N/Kft			69			59			60			78			69
AVG lyr base Kft			5.8			6.0			3.1			6.1			8.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUPRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	7	7	6	7	12	11	11	6	6	6	3	3	3
10 to 20 Feet	4	5	5	4	6	5	6	7	7	3	5	4	3	3	3
20 to 30 Feet	6	10	8	8	11	9	8	12	10	5	10	7	4	6	5
30 to 40 Feet	10	13	11	13	14	14	10	15	13	8	11	9	7	10	8
40 to 50 Feet	12	16	14	15	19	17	11	15	13	10	16	13	11	14	12
50 to 60 Feet	12	15	14	16	17	17	10	14	12	10	15	12	13	16	14
60 to 70 Feet	11	11	11	11	10	11	7	7	7	10	12	11	15	16	15
70 to 80 Feet	8	7	8	7	6	6	5	5	5	7	6	7	13	13	13
80 to 90 Feet	5	4	5	4	3	3	3	2	3	5	4	4	9	8	9
90 to 100 Feet	4	2	3	2	1	2	2	1	2	4	2	3	6	5	6
above 100 Feet	22	10	16	13	7	10	24	10	17	34	15	24	15	7	11
Mean height Feet	75	58	67	63	52	57	74	53	63	93	64	79	72	62	67

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			1			1			1			5
% occur 2+ EL dcts			3			9			1			0			3
AVG station N			379			362			398			393			371
AVG station -N/Kft			20			17			23			22			16
AVG sfc wind Kts	16	15	15	17	16	17	12	11	12	15	12	12	22	20	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 24 27 N 118 04 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 59134 24 27 N 118 04 E
Radiosonde station height: 207 Feet
Surface obs source: MS97 25 00 N 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	1	2	1	0	1	2	1	2	3	2	2	2	1	1
1 GHz	28	13	21	17	8	13	31	15	23	42	21	31	21	9	15
3 GHz	38	21	30	24	13	19	39	20	30	52	29	41	37	22	30
6 GHz	66	54	60	56	45	51	60	45	52	75	59	67	75	66	70
10 GHz	85	80	83	33	78	80	78	73	75	89	83	86	91	89	90
20 GHz	91	89	90	90	88	89	85	83	84	93	91	92	95	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	17	9	13	10	3	7	20	11	16	24	16	20	13	4	9
AVG thickness Kft			.23			.30			.19			.16			.27
AVG trap freq GHz			1.1			1.2			1.3			1.1			.92
AVG lyr grd -N/Kft			146			214			97			100			172

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	2	3	3	2	2	2	2	2	2	2	2	2
AVG top ht Kft			7.1			7.7			7.9			6.4			6.2
AVG thickness Kft			.44			.30			.68			.42			.36
AVG trap freq GHz			2.1			2.9			.76			2.6			2.1
AVG lyr grd -N/Kft			62			55			85			53			54
AVG lyr base Kft			6.7			7.4			7.5			6.1			5.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	7	7	6	7	12	11	11	6	6	6	3	3	3
10 to 20 Feet	4	5	5	4	6	5	6	7	7	3	5	4	3	3	3
20 to 30 Feet	6	10	8	8	11	9	8	12	10	5	10	7	4	6	5
30 to 40 Feet	10	13	11	13	14	14	10	15	13	8	11	9	7	10	8
40 to 50 Feet	12	16	14	15	19	17	11	15	13	10	16	13	11	14	12
50 to 60 Feet	12	15	14	16	17	17	10	14	12	10	15	12	13	16	14
60 to 70 Feet	11	11	11	11	10	11	7	7	7	10	12	11	15	16	15
70 to 80 Feet	8	7	8	7	6	6	5	5	5	7	6	7	13	13	13
80 to 90 Feet	5	4	5	4	3	3	3	2	3	5	4	4	9	8	9
90 to 100 Feet	4	2	3	2	1	2	2	1	2	4	2	3	6	5	6
above 100 Feet	22	10	16	13	7	10	24	10	17	34	15	24	15	7	11
Mean height Feet	75	58	67	63	52	57	74	53	63	93	64	79	72	62	67

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			1
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			352			328			368			375			337
AVG station -N/Kft			15			12			16			17			13
AVG sfc wind Kts	16	15	15	17	16	17	12	11	12	13	12	12	22	20	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 23 24 N 116 40 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 59316 23 24 N 116 40 E
Radiosonde station height: 39 Feet
Surface obs source: MS97 25 00 N 115 30 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	3	3	0	0	0	5	6	5	7	5	6	2	2	2
1 GHz	32	22	27	14	9	11	39	30	35	52	33	43	22	15	18
3 GHz	42	32	37	20	14	17	48	39	44	64	44	54	38	29	33
6 GHz	69	61	65	54	46	50	66	59	62	82	69	75	75	69	72
10 GHz	87	84	85	81	78	80	82	80	81	92	87	90	91	90	90
20 GHz	92	91	91	89	88	89	87	88	88	95	94	94	95	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	24	24	24	3	6	5	32	37	35	49	39	44	12	14	13
AVG thickness Kft			.28			.28			.28			.16			.41
AVG trap freq GHz			1.3			3.0			.63			.76			.61
AVG lyr grd -N/Kft			155			168			118			166			168

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	3	3	3	4	4	2	2	2	2	1	2	4	4	4
AVG top ht Kft			5.6			7.2			4.2			5.1			5.9
AVG thickness Kft			.42			.33			.63			.43			.31
AVG trap freq GHz			.94			1.8			.45			.69			.87
AVG lyr grd -N/Kft			60			59			65			60			56
AVG lyr base Kft			5.3			6.9			3.9			4.8			5.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUPRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	7	7	6	7	12	11	11	6	6	6	3	3	3
10 to 20 Feet	4	5	5	4	6	5	6	7	7	3	5	4	3	3	3
20 to 30 Feet	6	10	8	8	11	9	8	12	10	5	10	7	4	6	5
30 to 40 Feet	10	13	11	13	14	14	10	15	13	8	11	9	7	10	8
40 to 50 Feet	12	16	14	15	19	17	11	15	13	10	16	13	11	14	12
50 to 60 Feet	12	15	14	16	17	17	10	14	12	10	15	12	12	16	14
60 to 70 Feet	11	11	11	11	10	11	7	7	7	10	12	11	15	16	15
70 to 80 Feet	8	7	8	7	6	6	5	5	5	7	6	7	13	13	13
80 to 90 Feet	5	4	5	4	3	3	3	2	3	5	4	4	9	8	9
90 to 100 Feet	4	2	3	2	1	2	2	1	2	4	2	3	6	5	6
above 100 Feet	22	10	16	13	7	10	24	10	17	34	15	24	15	7	11
Mean height Feet	75	58	67	63	52	57	74	53	63	93	64	79	72	62	67

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			361			334			373			386			351
AVG station -N/Kft			16			12			17			19			15
AVG sfc wind Kts	16	15	15	17	16	17	12	11	12	13	12	12	22	20	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 21 52 N 111 58 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 59663 21 52 N 111 58 E
Radiosonde station height: 72 Feet
Surface obs source: MS97 25 00 N 115 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	1	0	0	2	0	1	3	0	1	*	*	*
1 GHz	29	11	20	15	7	11	31	10	21	41	15	28	*	*	*
3 GHz	37	15	26	21	11	16	39	14	26	51	21	36	*	*	*
6 GHz	63	46	54	54	44	49	60	39	50	74	53	64	*	*	*
10 GHz	83	76	79	82	77	79	78	70	74	88	80	84	*	*	*
20 GHz	89	86	88	89	88	89	85	82	83	93	90	91	*	*	*

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	11	0	6	4	0	2	19	0	10	22	0	11	0	0	0
AVG thickness Kft			.20			.28			.18			.12			*
AVG trap freq GHz			.94			.65			1.1			1.1			*
AVG lyr grd -N/Kft			224			224			222			226			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	2	2	5	7	6	2	0	1	1	0	1	4	0	2
AVG top ht Kft			7.4			6.9			5.4			7.9			9.4
AVG thickness Kft			.33			.36			.34			.25			.39
AVG trap freq GHz			.91			.89			1.1			1.1			.59
AVG lyr grd -N/Kft			56			59			55			52			58
AVG lyr base Kft			7.1			6.6			5.1			7.6			9.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	7	7	6	7	12	11	11	6	6	6	3	3	3
10 to 20 Feet	4	5	5	4	6	5	6	7	7	3	5	4	3	3	3
20 to 30 Feet	6	10	8	8	11	9	8	12	10	5	10	7	4	6	5
30 to 40 Feet	10	13	11	13	14	14	10	15	13	8	11	9	7	10	8
40 to 50 Feet	12	16	14	15	19	17	11	15	13	10	16	13	11	14	12
50 to 60 Feet	12	15	14	16	17	17	10	14	12	10	15	12	13	16	14
60 to 70 Feet	11	11	11	11	10	11	7	7	7	10	12	11	15	16	15
70 to 80 Feet	8	7	8	7	6	6	5	5	5	7	6	7	13	13	13
80 to 90 Feet	5	4	5	4	3	3	3	2	3	5	4	4	9	8	9
90 to 100 Feet	4	2	3	2	1	2	2	1	2	4	2	3	6	5	6
above 100 Feet	22	10	16	13	7	10	24	10	17	34	15	24	15	7	11
Mean height Feet	75	58	67	63	52	57	74	53	63	93	64	79	72	62	67

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			363			335			381			388			347
AVG station -N/Kft			16			12			17			21			12
AVG sfc wind Kts	16	15	15	17	16	17	12	11	12	13	12	12	22	20	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 20 15 N 85 49 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 42971 20 15 N 85 49 E
Radiosonde station height: 148 Feet
Surface obs source: MS64 15 00 N 85 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	3	3	7	3	5	3	3	3	3	3	3	3	3	3
1 GHz	44	20	32	59	21	40	40	18	29	29	16	22	49	26	38
3 GHz	54	29	41	68	29	49	50	26	38	37	22	29	61	38	50
6 GHz	79	64	71	84	59	72	78	64	71	70	61	65	83	71	77
10 GHz	91	88	89	92	85	89	91	87	89	89	88	88	93	90	92
20 GHz	95	94	95	96	93	94	95	94	95	94	95	94	97	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	17	12	14	31	14	23	8	7	8	6	6	6	23	20	22
AVG thickness Kft			.67			.52			.79			1.0			.67
AVG trap freq GHz			.38			.35			.15			.11			.90
AVG lyr grd -N/Kft			192			191			203			161			214

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	23	21	22	33	23	28	26	30	28	10	11	11	21	21	21
AVG top ht Kft			6.8			3.9			6.2			12			5.6
AVG thickness Kft			.60			.40			.88			.52			.60
AVG trap freq GHz			.28			.51			.12			.29			.20
AVG lyr grd -N/Kft			63			57			58			65			69
AVG lyr base Kft			6.4			3.6			5.6			11			5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPPENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	3	3	3	2	3	4	3	3	3	3	3	3	3	3
10 to 20 Feet	2	4	3	3	6	4	2	4	3	3	3	3	1	3	2
20 to 30 Feet	5	8	6	5	10	7	5	8	6	6	7	7	4	7	5
30 to 40 Feet	6	10	8	5	13	9	5	9	7	8	11	9	5	9	7
40 to 50 Feet	9	16	12	6	17	11	9	16	12	13	18	15	7	14	11
50 to 60 Feet	10	16	13	9	16	12	10	16	13	14	17	15	8	14	11
60 to 70 Feet	10	14	12	7	11	9	11	17	14	14	16	15	9	14	11
70 to 80 Feet	8	9	8	7	8	7	9	9	9	8	8	8	8	10	9
80 to 90 Feet	6	5	5	5	4	4	6	5	6	5	4	5	7	6	6
90 to 100 Feet	4	3	4	4	3	3	5	3	4	3	2	3	4	4	4
above 100 Feet	37	13	25	47	12	29	35	12	24	25	10	17	42	17	30
Mean height Feet	99	65	82	112	62	87	96	65	80	81	62	72	106	72	89

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			3			2			0			1
% occur 2+ EL dcts			2			3			4			2			0
AVG station N			372			353			388			390			358
AVG station -N/Kft			21			21			25			21			19
AVG sfc wind Kts	12	11	11	8.1	8.0	8.0	12	12	12	15	13	14	11	11	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 24 54 N 67 07 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 41780 24 54 N 67 07 E
Radiosonde station height: 75 Feet
Surface obs source: MS102 25 00 N 65 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	2	1	2	1	2	*	*	*	0	2	1	0	2	1
1 GHz	38	17	28	48	18	33	*	*	*	21	12	16	46	20	33
3 GHz	49	25	37	58	27	43	*	*	*	31	17	24	56	32	44
6 GHz	75	56	66	81	57	69	*	*	*	62	48	55	81	64	73
10 GHz	88	81	85	92	80	86	*	*	*	81	80	81	91	84	88
20 GHz	93	89	91	95	88	92	*	*	*	88	88	88	95	92	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	13	10	25	14	20	0	0	0	0	13	7	0	25	13
AVG thickness Kft			.38			.37			*			.58			.17
AVG trap freq GHz			1.7			1.8			*			.56			2.8
AVG lyr grd -N/Kft			417			391			*			164			696

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	2	1	0	7	4	0	0	0	0	0	0	0	0	0
AVG top ht Kft			*			*			*			*			*
AVG thickness Kft			1.4			1.4			*			*			*
AVG trap freq GHz			.08			.08			*			*			*
AVG lyr grd -N/Kft			*			*			*			*			*
AVG lyr base Kft			6.6			6.6			*			*			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	5	5	3	2	3	5	5	5	8	9	8	2	1	2
10 to 20 Feet	3	8	5	3	11	7	2	7	4	4	6	5	2	8	5
20 to 30 Feet	4	9	7	4	9	6	3	10	7	7	9	8	4	10	7
30 to 40 Feet	6	13	9	5	10	8	5	13	9	9	17	13	4	10	7
40 to 50 Feet	8	16	12	8	15	11	6	16	11	11	19	15	6	13	9
50 to 60 Feet	10	15	12	11	13	12	9	14	11	11	16	14	8	15	11
60 to 70 Feet	10	11	11	9	11	10	10	11	11	13	12	12	9	12	10
70 to 80 Feet	7	8	7	6	9	8	8	7	7	7	6	6	8	9	9
80 to 90 Feet	6	4	5	5	4	5	7	3	5	7	2	4	5	5	5
90 to 100 Feet	4	2	3	4	3	3	5	2	3	3	1	2	5	3	4
above 100 Feet	37	10	24	42	13	28	40	11	26	21	3	12	46	13	30
Mean height Feet	100	58	79	106	62	84	105	58	81	77	47	62	112	64	88

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2* EL dcts			0			0			0			0			0
AVG station N			372			347			377			383			380
AVG station -N/Kft			18			13			21			22			14
AVG sfc wind Kts	12	11	11	9.2	8.9	9.1	13	13	13	16	15	15	8.6	7.6	8.1

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 26 18 N 50 36 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 40427 26 18 N 50 36 E
Radiosonde station height: 7 Feet
Surface obs source: MS103 25 00 N 55 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	17	21	19	5	6	6	18	22	20	38	43	40	8	12	10
1 GHz	69	63	66	49	34	41	82	81	81	89	92	90	55	47	52
3 GHz	76	70	73	58	43	50	88	89	89	91	92	92	66	57	61
6 Ghz	87	82	84	77	64	71	93	93	93	94	95	94	83	74	79
10 GHz	93	90	92	89	82	85	95	96	96	97	97	97	92	87	89
20 GHz	96	95	95	93	90	91	96	98	97	97	98	98	96	93	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	52	64	58	27	36	32	69	85	77	80	90	85	32	46	39
AVG thickness Kft			.57			.42			.58			.77			.59
AVG trap freq GHz			.27			.46			.24			.11			.25
AVG lyr grd -N/Kft			117			124			116			116			114

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	17	21	19	16	26	21	12	11	12	15	15	15	25	33	29
AVG top ht Kft			1.8			2.0			1.1			1.9			2.1
AVG thickness Kft			.63			.46			.60			.78			.67
AVG trap freq GHz			.23			.36			.23			.13			.20
AVG lyr grd -N/Kft			65			60			64			72			63
AVG lyr base Kft			1.4			1.7			.76			1.4			1.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	6	5	4	5	9	7	8	9	9	9	3	2	3
10 to 20 Feet	3	10	7	4	11	8	2	7	5	3	11	7	3	10	7
20 to 30 Feet	5	11	8	5	12	9	3	10	7	4	11	8	6	12	9
30 to 40 Feet	6	11	8	7	13	10	4	10	7	5	12	8	6	10	8
40 to 50 Feet	7	12	10	9	13	11	5	10	8	7	12	10	7	12	10
50 to 60 Feet	8	11	9	9	12	11	6	9	7	7	10	9	8	12	10
60 to 70 Feet	7	9	8	8	10	9	4	6	5	6	8	7	10	12	11
70 to 80 Feet	5	6	5	6	6	6	3	4	4	4	5	4	7	8	7
80 to 90 Feet	4	3	4	5	3	4	3	3	3	4	3	4	5	5	5
90 to 100 Feet	3	2	3	3	2	3	3	2	2	3	2	2	4	3	3
above 100 Feet	45	19	32	37	12	25	57	30	44	47	18	32	41	14	27
Mean height Feet	109	67	88	97	58	77	125	83	104	108	65	86	104	63	83

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			5			3			4			7			5
% occur 2+ EL dcts			1			2			1			1			1
AVG station N			356			336			354			376			359
AVG station -N/Kft			26			19			27			34			24
AVG sfc wind kts	9.0	8.7	8.9	10	9.3	9.4	9.4	9.3	9.3	9.2	8.9	9.1	8.8	7.3	7.7

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 20 40 N 58 54 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 40564 20 40 N 58 54 E
Radiosonde station height: 39 Feet
Surface obs source: MS103 25 00 N 55 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH COP RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	7	10	9	5	6	5	12	22	17	5	5	5	6	8	7
1 GHz	57	44	51	48	29	39	72	74	73	56	35	45	58	39	46
3 GHz	65	52	58	56	36	46	76	79	78	64	43	54	63	49	56
6 GHz	80	69	74	76	58	67	85	86	85	75	61	69	82	70	76
10 GHz	89	83	86	88	78	83	91	92	91	87	78	83	92	85	88
20 GHz	93	90	92	92	88	90	93	95	94	91	86	89	96	92	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	28	40	34	21	23	22	36	68	52	26	30	28	28	38	33
AVG thickness Kft			.74			.66			.93			.82			.56
AVG trap freq GHz			.31			.26			.18			.47			.33
AVG lyr grd -N/Kft			133			138			133			131			129

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	45	43	48	50	49	36	30	33	39	53	46	40	46	43
AVG top ht Kft			2.6			3.1			2.3			2.2			3.0
AVG thickness Kft			.87			.73			1.1			.89			.75
AVG trap freq GHz			.13			.16			.08			.10			.17
AVG lyr grd -N/Kft			65			67			66			65			63
AVG lyr base Kft			2.1			2.6			1.6			1.6			2.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	6	5	4	5	9	7	8	9	9	9	3	2	3
10 to 20 Feet	3	10	7	4	11	8	2	7	5	3	11	7	3	10	7
20 to 30 Feet	5	11	8	5	12	9	3	10	7	4	11	8	6	12	9
30 to 40 Feet	6	11	8	7	13	10	4	10	7	5	12	8	6	10	8
40 to 50 Feet	7	12	10	9	13	11	5	10	8	7	12	10	7	12	10
50 to 60 Feet	8	11	9	9	12	11	6	9	7	7	10	9	8	12	10
60 to 70 Feet	7	9	8	8	10	9	4	6	5	6	8	7	10	12	11
70 to 80 Feet	5	6	5	6	6	6	3	4	4	4	5	4	7	8	7
80 to 90 Feet	4	3	4	5	3	4	3	3	3	4	3	4	5	5	5
90 to 100 Feet	3	2	3	3	2	3	3	2	2	3	2	2	4	3	3
above 100 Feet	45	19	32	37	12	25	57	30	44	47	18	32	41	14	27
Mean height Feet	109	67	88	97	58	77	125	83	104	108	65	86	104	63	83

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			5			4			5			6			5
% occur 2+ EL dcts			4			4			3			5			4
AVG station N			362			348			373			370			356
AVG station -N kft			25			20			30			27			29
AVG sfc wind kts	9.0	9.7	8.9	10	9.3	9.4	9.4	9.3	9.3	9.2	8.9	9.1	8.0	7.3	7.

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 29 13 N 47 58 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 40372 29 13 N 47 58 E
Radiosonde station height: 180 Feet
Surface obs source: MS103 25 00 N 55 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	2	2	1	4	3	2	1	2	1	0	0	2	3	2
1 GHz	49	25	37	41	27	34	61	34	47	48	18	33	46	23	34
3 GHz	57	33	45	49	36	43	67	40	53	55	23	39	56	33	44
6 GHz	75	56	66	72	60	66	79	59	69	72	46	59	78	60	69
10 GHz	87	77	82	86	79	83	87	78	83	84	69	76	90	79	85
20 GHz	91	86	89	91	89	90	90	87	89	88	81	84	95	90	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	14	13	18	29	20	18	10	14	4	0	2	14	18	16
AVG thickness Kft			.31			.19			.30			.46			.29
AVG trap freq GHz			.83			.76			1.4			.54			.64
AVG lwr grd -N/Kft			166			121			177			227			139

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	6	6	3	4	4	6	3	5	5	0	3	8	15	12
AVG top ht Kft			5.2			2.5			8.2			7.8			2.2
AVG thickness Kft			.48			.32			.47			.56			.57
AVG trap freq GHz			.83			1.5			1.0			.65			.21
AVG lwr grd -N/Kft			68			59			81			81			70
AVG lwr base Kft			4.8			2.2			7.9			7.3			1.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUPPENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	6	5	4	5	9	7	8	9	9	9	3	2	3
10 to 20 Feet	3	10	7	4	11	8	2	7	5	3	11	7	3	10	7
20 to 30 Feet	5	11	8	5	12	9	3	10	7	4	11	8	6	12	9
30 to 40 Feet	6	11	8	7	13	10	4	10	7	5	12	8	6	10	8
40 to 50 Feet	7	12	10	9	13	11	5	10	8	7	12	10	7	12	10
50 to 60 Feet	8	11	9	9	12	11	6	9	7	7	10	9	8	12	10
60 to 70 Feet	7	9	8	8	10	9	4	6	5	6	8	7	10	12	11
70 to 80 Feet	5	6	5	6	6	6	3	4	4	4	5	4	7	8	7
80 to 90 Feet	4	3	4	5	3	4	3	3	3	4	3	4	5	5	5
90 to 100 Feet	3	2	3	3	2	3	3	2	2	3	2	2	4	3	3
above 100 Feet	45	19	32	37	12	25	57	30	44	47	18	32	41	14	27
Mean height Feet	109	67	88	97	58	77	125	83	104	108	65	86	104	63	83

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			1			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			302			314			297			279			316
AVG station -N/Kft			11			12			9.4			8.2			12
AVG sfc wind kts	9.0	8.7	8.9	10	9.3	9.4	9.4	9.3	9.3	9.2	8.9	9.1	8.8	8.2	7.7

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 21 30 N 39 12 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 40477 21 30 N 39 12 E
Radiosonde station height: 56 Feet
Surface obs source: MS105 25 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	7	6	1	3	2	5	9	7	5	10	8	4	6	5
1 GHz	56	45	50	38	26	32	69	57	63	68	61	64	47	35	41
3 GHz	68	57	62	54	38	46	77	68	72	78	71	74	62	51	57
6 GHz	97	81	84	81	75	78	89	83	86	90	85	88	86	80	83
10 GHz	94	92	93	92	90	91	95	93	94	95	95	95	95	92	94
20 GHz	96	96	96	95	95	95	97	97	97	96	97	96	98	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	36	28	6	15	11	27	48	38	27	52	40	21	30	26
AVG thickness Kft			.46			.39			.44			.52			.47
AVG trap freq GHz			.38			.40			.40			.38			.35
AVG lyr grd -N/Kft			123			114			115			116			149

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	11	13	12	10	18	14	12	14	13	13	12	13	8	9	9
AVG top ht Kft			2.6			3.7			1.6			1.6			3.7
AVG thickness Kft			.61			.42			.63			.73			.65
AVG trap freq GHz			.38			.53			.41			.27			.30
AVG lyr grd -N/Kft			56			57			55			54			58
AVG lyr base Kft			2.1			3.3			1.1			.90			3.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	3	3	3	3	3	3	4	3	4	1	1	1
10 to 20 Feet	2	4	3	3	3	3	1	3	2	2	3	3	1	5	3
20 to 30 Feet	3	6	4	3	5	4	3	8	6	1	5	3	4	6	5
30 to 40 Feet	4	8	6	5	7	6	3	9	6	2	8	5	5	6	6
40 to 50 Feet	5	10	8	7	11	9	5	9	7	4	11	7	6	10	8
50 to 60 Feet	6	11	9	8	14	11	5	10	7	4	9	7	8	12	10
60 to 70 Feet	8	12	10	10	15	13	5	8	7	6	8	7	11	15	13
70 to 80 Feet	8	10	9	10	13	11	6	7	6	6	8	7	10	13	12
80 to 90 Feet	7	6	6	9	7	8	3	5	4	6	4	5	9	9	9
90 to 100 Feet	6	5	5	8	5	6	4	4	4	5	4	4	7	7	7
above 100 Feet	49	26	37	35	17	26	61	35	48	60	37	48	37	16	27
Mean height Feet	113	84	99	96	73	84	131	94	112	129	96	112	98	72	85

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SE dcts			2			2			2			2			0
% occur 2+ EL dcts			0			1			0			0			0
AVG station N			355			340			356			365			358
AVG station -N/kft			20			15			22			24			19
AVG sfc wind Kts	13	11	12	14	12	13	13	11	12	12	10	12	12	11	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 30 22 N 9 34 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 60250 30 22 N 9 34 W
Radiosonde station height: 82 Feet
Surface obs source: MS109 35 00 N 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	*	*	*	0	1	0	0	1	1	*	*	*
1 GHz	28	19	23	*	*	*	26	17	21	30	21	26	*	*	*
3 GHz	32	23	27	*	*	*	29	20	25	35	26	30	*	*	*
6 GHz	49	36	43	*	*	*	47	33	40	51	40	45	*	*	*
10 GHz	71	64	67	*	*	*	72	63	67	70	65	67	*	*	*
20 GHz	81	79	80	*	*	*	83	80	82	79	78	79	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	3	2	0	0	0	0	6	3	0	7	4	0	0	0
AVG thickness Kft			.77			*			.67			.88			*
AVG trap freq GHz			.67			*			.89			.45			*
AVG lyr grd -N/Kft			104			*			117			91			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	8	4	0	3	2	0	11	6	0	10	5	0	9	5
AVG top ht Kft			2.7			2.8			3.6			1.7			2.8
AVG thickness Kft			.41			.23			.58			.38			.47
AVG trap freq GHz			1.1			.77			.37			2.7			.51
AVG lyr grd -N/Kft			61			60			70			54			59
AVG lyr base Kft			2.4			2.6			3.2			1.4			2.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	10	9	6	8	7	9	9	9	13	13	13	7	9	8
10 to 20 Feet	7	12	10	8	12	10	8	12	10	8	11	10	6	11	9
20 to 30 Feet	11	17	14	12	19	16	12	18	15	9	15	12	10	15	13
30 to 40 Feet	13	18	15	14	20	17	14	18	16	10	15	13	13	17	15
40 to 50 Feet	12	13	13	14	15	15	11	13	12	9	11	10	13	14	14
50 to 60 Feet	9	9	9	11	10	10	8	7	8	8	8	8	11	11	11
60 to 70 Feet	6	5	5	7	4	6	6	4	5	5	4	5	7	6	6
70 to 80 Feet	4	2	3	4	2	3	4	2	3	4	3	3	5	3	4
80 to 90 Feet	2	2	2	2	1	2	2	1	2	2	2	2	3	2	2
90 to 100 Feet	2	1	2	2	1	1	2	1	1	2	2	2	2	1	2
above 100 Feet	24	12	18	19	8	13	26	14	20	30	17	24	23	11	17
Mean height Feet	73	52	62	65	44	55	73	53	63	79	57	68	74	52	63

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			1			0			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			345			334			347			358			339
AVG station -N/Kft			16			15			16			17			15
AVG sfc wind kts	12	12	12	13	13	13	12	12	12	11	10	11	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 33 34 N 7 40 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 60155 33 34 N 7 40 W
Radiosonde station height: 203 Feet
Surface obs source: MS109 35 00 N 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	1	2	2	2	2	3	0	1	5	0	3	2	0	1
1 GHz	32	14	23	25	15	20	33	14	23	44	17	31	28	11	19
3 GHz	38	17	28	31	19	25	38	16	27	51	21	36	34	14	24
6 GHz	56	33	45	51	34	43	54	30	42	64	35	50	55	34	44
10 GHz	77	63	70	76	66	71	76	61	68	78	62	70	79	65	72
20 GHz	87	80	83	87	83	85	86	79	82	85	76	81	89	80	84

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	3	10	12	13	13	15	0	8	27	0	14	10	0	5
AVG thickness Kft			.39			.34			.30			.54			.38
AVG trap freq GHz			.51			.58			.54			.38			.56
AVG lyr grd -N/Kft			103			104			87			110			110

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	23	3	13	10	13	12	25	0	13	42	0	21	14	0	7
AVG top ht Kft			2.6			2.9			2.7			2.1			2.7
AVG thickness Kft			.50			.31			.54			.77			.40
AVG trap freq GHz			.52			1.1			.26			.17			.59
AVG lyr grd -N/Kft			58			56			60			60			57
AVG lyr base Kft			2.2			2.7			2.3			1.6			2.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	10	9	6	8	7	9	9	9	13	13	13	7	9	8
10 to 20 Feet	7	12	10	8	12	10	8	12	10	8	11	10	6	11	8
20 to 30 Feet	11	17	14	12	19	16	2	18	15	9	15	12	10	15	13
30 to 40 Feet	13	18	15	14	20	17	14	18	16	10	15	13	13	17	15
40 to 50 Feet	12	13	13	14	15	15	11	13	12	9	11	10	13	14	14
50 to 60 Feet	9	9	9	11	10	10	8	7	8	8	8	8	11	11	11
60 to 70 Feet	6	5	5	7	4	6	6	4	5	5	4	5	7	6	6
70 to 80 Feet	4	2	3	4	2	3	4	2	3	4	3	3	5	3	4
80 to 90 Feet	2	2	2	2	1	2	2	1	2	2	2	2	3	2	2
90 to 100 Feet	2	1	2	2	1	1	2	1	1	2	2	2	2	1	2
above 100 Feet	24	12	18	19	8	13	26	14	20	30	17	24	23	11	17
Mean height Feet	73	52	62	65	44	55	73	53	63	79	57	68	74	52	63

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			2			3			0
% occur 2+ EL dcts			2			1			2			3			0
AVG station N			339			329			338			353			335
AVG station -N/Kft			18			15			16			23			16
AVG sfc wind kts	12	12	12	13	13	13	12	12	12	11	10	11	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 34 18 N 6 36 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 50119 34 18 N 6 36 W
Radiosonde station height: 20 Feet
Surface obs source: MS109 35 00 N 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	3	2	0	1	0	0	3	2	0	7	4	6	2	4
1 GHz	29	22	25	19	11	15	26	24	25	30	37	33	40	16	28
3 GHz	34	26	30	23	14	18	29	28	29	35	42	38	48	20	34
6 GHz	52	40	46	45	30	37	47	40	44	51	53	52	66	39	52
10 GHz	75	68	71	73	63	68	72	67	69	70	72	71	84	68	76
20 GHz	85	82	83	86	81	84	83	82	83	79	83	81	92	82	87

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	15	11	0	7	4	9	15	8	0	27	14	33	9	21
AVG thickness Kft			.50			.43			.44			.68			.44
AVG trap freq GHz			.58			1.2			.31			.23			.51
AVG lyr grd -N Kft			118			147			113			114			99

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	39	20	0	28	14	0	45	23	0	50	25	0	32	16
AVG top ht Kft			2.6			3.0			2.4			1.7			3.3
AVG thickness Kft			.47			.43			.43			.64			.37
AVG trap freq GHz			.40			.46			.44			.15			.53
AVG lyr grd -N/Kft			68			71			60			71			69
AVG lyr base Kft			2.3			2.3			2.1			1.3			3.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	10	9	6	8	7	9	9	9	13	13	13	7	9	8
10 to 20 Feet	7	12	10	8	12	10	8	12	10	6	11	10	6	11	8
20 to 30 Feet	11	17	14	12	19	16	12	18	15	9	15	12	10	15	13
30 to 40 Feet	13	18	15	14	20	17	14	18	16	10	15	13	13	17	15
40 to 50 Feet	12	13	13	14	15	15	11	13	12	9	11	10	13	14	14
50 to 60 Feet	9	9	9	11	10	10	8	7	8	8	8	8	11	11	11
60 to 70 Feet	6	5	5	7	4	6	6	4	5	5	4	5	7	6	6
70 to 80 Feet	4	2	3	4	2	3	4	2	3	4	2	3	5	3	4
80 to 90 Feet	2	2	2	2	1	2	2	1	2	2	2	2	3	2	2
90 to 100 Feet	2	1	2	2	1	1	2	1	1	2	2	2	2	1	1
above 100 Feet	24	12	18	19	8	13	26	14	20	30	17	24	21	11	17
Mean height Feet	73	52	62	65	44	55	73	53	63	79	57	68	74	52	63

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			2			2			5			1
% occur 2+ EL dcts			5			5			5			5			4
AVG station N			344			333			344			361			339
AVG station -N/Kft			17			15			17			21			15
AVG sfc wind Kts	12	12	12	13	13	13	12	12	12	11	10	11	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 38 46 N 9 07 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 8536 38 46 N 9 07 W
Radiosonde station height: 266 Feet
Surface obs source: MS109 35 00 N 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	1	1	0	0	0	2	1	1	4	2	3	1	1	1
1 GHz	38	15	23	21	9	15	32	16	24	41	22	32	27	13	20
3 GHz	36	19	28	25	12	19	38	19	29	48	27	38	34	17	25
6 GHz	55	35	45	47	28	37	55	32	43	63	41	52	55	37	46
10 GHz	77	64	71	74	62	68	76	62	69	78	66	72	79	67	73
20 GHz	86	80	83	86	81	84	86	80	83	85	79	82	89	81	85

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	6	10	4	4	4	18	4	11	26	10	18	10	6	8
AVG thickness Kft			.30			.23			.25			.37			.34
AVG trap freq GHz			.92			1.1			1.0			.60			1.0
AVG lyr grd -N/Kft			107			143			94			90			100

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	13	19	16	13	14	14	12	20	16	15	27	21	11	14	13
AVG top ht Kft			3.2			3.7			2.9			2.7			3.6
AVG thickness Kft			.39			.34			.34			.49			.39
AVG trap freq GHz			.53			.57			.67			.39			.49
AVG lyr grd -N/Kft			57			59			55			55			58
AVG lyr base Kft			2.9			3.5			2.6			2.3			3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	10	9	6	8	7	9	9	9	13	13	13	7	9	8
10 to 20 Feet	7	12	10	8	12	10	8	12	10	8	11	10	6	11	8
20 to 30 Feet	11	17	14	12	19	16	12	18	15	9	15	12	10	15	13
30 to 40 Feet	13	18	15	14	20	17	14	18	16	10	15	13	13	17	15
40 to 50 Feet	12	13	13	14	15	15	11	13	12	9	11	10	13	14	14
50 to 60 Feet	9	9	9	11	10	10	8	7	8	8	8	8	11	11	11
60 to 70 Feet	6	5	5	7	4	6	6	4	5	5	4	5	7	6	6
70 to 80 Feet	4	2	3	4	2	3	4	2	3	4	3	3	5	3	4
80 to 90 Feet	2	2	2	2	1	2	2	1	2	2	2	2	2	2	2
90 to 100 Feet	2	1	2	2	1	1	2	1	1	2	2	2	2	1	2
above 100 Feet	24	12	18	19	8	13	26	14	20	30	17	24	23	11	17
Mean height Feet	71	52	62	65	44	55	73	53	63	79	57	68	74	52	63

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB ducts			1			1			1			2			1
% occur 2+ EL ducts			1			0			1			1			0
AVG station N			331			325			329			339			330
AVG station -N rate			16			15			16			19			15
AVG sfc wind kts	12	12	12	13	13	13	12	12	12	11	10	11	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMM-P-

Specified location: 36 09 N 5 19 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 8495 36 09 N 5 19 W
Radiosonde station height: 13 Feet
Surface obs source: MS109 35 00 N 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	0	0	0	1	1	1	2	2	2	1	0	1
1 GHz	27	16	22	20	9	14	29	19	24	36	25	30	25	12	19
3 GHz	33	20	26	25	11	18	34	23	29	41	30	36	31	16	23
6 GHz	52	36	44	46	27	37	51	37	44	57	44	50	52	36	44
10 GHz	75	65	70	74	62	68	74	65	70	74	67	71	78	67	72
20 GHz	85	81	83	86	81	83	85	81	83	82	80	81	88	81	84

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	9	8	4	3	4	10	12	11	13	15	14	5	4	5
AVG thickness Kft			.30			.20			.30			.48			.22
AVG trap freq GHz			1.3			2.5			1.1			.65			1.2
AVG lyr grd -N Kft			98			115			112			78			89

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	24	27	25	13	14	14	21	27	24	47	49	48	14	17	15
AVG top ht Kft			2.9			3.0			2.8			2.7			2.9
AVG thickness Kft			.42			.31			.38			.58			.40
AVG trap freq GHz			.46			.71			.44			.23			.45
AVG lyr grd -N/Kft			58			56			58			60			58
AVG lyr base Kft			2.5			2.8			2.5			2.3			2.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	10	9	6	8	7	9	9	9	13	13	13	7	9	8
10 to 20 Feet	7	12	10	8	12	10	8	12	10	8	11	10	6	11	8
20 to 30 Feet	11	17	14	12	19	16	12	13	15	9	15	12	10	15	13
30 to 40 Feet	13	18	15	14	20	17	14	18	16	10	15	13	13	17	15
40 to 50 Feet	12	13	13	14	15	15	11	13	12	9	11	10	13	14	14
50 to 60 Feet	9	9	9	11	10	10	8	7	8	8	8	8	11	11	11
60 to 70 Feet	6	5	5	7	4	6	6	4	5	5	4	5	7	6	6
70 to 80 Feet	4	2	3	4	2	3	4	2	3	4	3	3	5	3	4
80 to 90 Feet	2	2	2	2	1	2	2	1	2	2	2	2	3	2	2
90 to 100 Feet	2	1	2	2	1	1	2	1	1	2	2	2	2	1	2
above 100 Feet	24	12	18	19	8	13	26	14	20	30	17	24	23	11	17
Mean height Feet	73	52	62	65	44	55	73	53	63	79	57	68	74	52	63

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur SL<55 dcts			2			1			2			5			0
% occur 2+ EL dcts			4			1			2			10			1
AVG station N			340			338			339			355			336
AVG station -N/Kft			16			14			16			29			15
AVG sfc wind Kts	12	12	12	13	13	13	12	12	12	11	10	11	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 32 40 N 16 46 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 8521 32 40 N 16 46 W
Radiosonde station height: 200 Feet
Surface obs source: MS119 35 00 N 15 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	1	2	2	1	1	4	1	3	8	1	5	3	1	2
1 GHz	33	9	21	20	6	13	33	11	22	51	12	31	28	8	18
3 GHz	42	13	27	27	9	18	42	14	28	61	16	39	38	12	25
6 GHz	65	37	51	52	30	41	63	34	49	79	41	60	67	41	54
10 GHz	86	73	79	79	68	74	85	71	78	91	75	83	86	77	82
20 GHz	93	87	90	89	85	87	93	87	90	95	89	92	94	89	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	27	6	17	14	5	10	29	9	19	44	6	25	22	5	14
AVG thickness Kft			.30			.23			.30			.38			.28
AVG trap freq GHz			1.0			1.4			.83			.46			1.2
AVG lyr grd -N/Kft			75			82			66			70			84

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	36	66	51	26	59	43	32	66	49	55	86	71	30	51	41
AVG top ht Kft			4.8			4.9			4.8			4.0			5.6
AVG thickness Kft			.54			.41			.54			.77			.45
AVG trap freq GHz			.26			.33			.28			.13			.32
AVG lyr grd -N/Kft			64			61			64			66			64
AVG lyr base Kft			4.4			4.6			4.4			3.5			5.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	5	5	6	6	6	6	5	5	5	5	5	4	4	4
10 to 20 Feet	5	8	7	7	10	8	5	9	7	4	7	6	4	7	6
20 to 30 Feet	9	15	12	11	17	14	10	18	14	7	13	10	8	13	10
30 to 40 Feet	12	19	16	14	20	17	13	21	17	9	18	14	11	18	14
40 to 50 Feet	14	19	17	16	19	17	15	19	17	12	18	15	14	20	17
50 to 60 Feet	12	13	13	13	12	12	12	12	12	12	14	13	13	15	14
60 to 70 Feet	9	7	8	9	6	8	8	6	7	9	8	8	11	9	10
70 to 80 Feet	5	4	5	6	3	4	5	3	4	6	4	5	8	5	6
80 to 90 Feet	4	2	3	3	1	2	3	1	2	4	2	3	5	2	4
90 to 100 Feet	3	1	2	2	1	1	2	1	1	3	1	2	3	1	2
above 100 Feet	21	6	14	14	4	9	20	6	13	30	8	19	20	6	13
Mean height Feet	73	48	60	61	43	52	70	46	58	86	52	69	73	50	61

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL$SB dcts			9			3			8			18			4
% occur 2+ EL dcts			3			3			4			6			1
AVG station N			338			329			335			350			337
AVG station -N/Kft			15			13			14			18			14
AVG sfc ung Kts	14	13	13	15	14	15	14	13	14	13	12	12	14	13	13



IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 38 43 N 27 04 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 8509 38 43 N 27 04 W
Radiosonde station height: 367 Feet
Surface obs source: MS111 35 00 N 25 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES.

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	1	1	1	1	1	2	1	2	3	1	2	1	1	1
1 GHz	28	10	19	18	7	12	32	12	22	41	12	27	21	7	14
3 GHz	36	13	25	24	9	17	39	15	27	50	17	33	30	12	21
6 GHz	59	37	48	47	31	39	59	32	45	71	41	56	58	41	50
10 GHz	81	70	75	73	67	70	79	64	71	88	74	81	82	74	78
20 GHz	89	84	87	85	82	83	87	81	84	93	87	90	91	87	89

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	6	11	11	5	8	18	6	12	19	7	13	12	6	9
AVG thickness Kft			.24			.25			.25			.26			.21
AVG trap freq GHz			1.1			1.2			.90			.82			1.5
AVG lyr grd -N/Kft			100			124			79			87			11

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	43	53	48	36	42	39	46	55	51	51	63	57	39	50	45
AVG top ht Kft			5.2			4.9			5.1			5.4			5.4
AVG thickness Kft			.44			.40			.40			.48			.47
AVG trap freq GHz			.31			.33			.37			.29			.26
AVG lyr grd -N/Kft			65			67			62			63			68
AVG lyr base Kft			4.9			4.7			4.8			5.1			5.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	7	7	9	8	8	9	9	9	5	5	5	6	6	6
10 to 20 Feet	6	10	8	8	11	9	7	11	9	4	9	6	5	8	6
20 to 30 Feet	9	15	12	12	16	14	9	18	14	6	14	10	9	13	11
30 to 40 Feet	11	18	15	14	19	16	12	18	15	9	17	13	12	17	14
40 to 50 Feet	13	17	15	15	17	16	12	16	14	10	17	14	15	18	16
50 to 60 Feet	11	13	12	12	13	12	10	10	10	10	12	11	14	15	14
60 to 70 Feet	8	7	8	8	7	7	7	4	6	8	8	8	10	9	10
70 to 80 Feet	6	4	5	5	3	4	5	2	3	6	5	6	7	6	6
80 to 90 Feet	4	2	3	3	1	2	3	1	2	4	2	3	5	3	4
90 to 100 Feet	2	1	2	2	1	1	2	1	1	3	1	2	3	1	2
above 100 Feet	22	7	15	14	4	9	25	9	17	35	9	22	16	5	11
Mean height Feet	73	47	60	58	43	50	75	46	60	93	52	73	67	48	58

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			2			5			6			2
% occur 2+ EL dcts			8			3			10			14			6
AVG station N			339			329			336			349			340
AVG station -N/Kft			15			14			15			16			15
AVG sfc wind Kts	14	13	13	16	16	16	12	12	12	11	10	10	16	14	15

IFEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 00 N 35 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 8509 38 43 N 27 04 W
Radiosonde station height: 367 Feet
Surface obs source: MS112 35 00 N 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	1	1	1	1	1	2	1	2	3	1	2	1	1	1
1 GHz	27	9	18	16	6	11	32	11	21	41	13	27	19	7	13
3 GHz	35	14	24	22	9	16	39	14	27	50	18	34	29	13	21
6 GHz	60	39	50	49	35	42	59	32	46	73	46	60	59	43	51
10 GHz	82	72	77	75	69	72	79	66	73	89	78	83	83	76	79
20 GHz	90	86	88	86	83	84	88	82	85	94	90	92	91	88	90

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	6	11	11	5	8	18	6	12	19	7	13	12	6	9
AVG thickness Kft			.24			.25			.25			.26			.21
AVG trap freq GHz			1.1			1.2			.98			.82			1.5
AVG lyr grd -N/Kft			100			124			78			87			111

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	43	53	48	36	42	39	46	55	51	51	63	57	39	50	45
AVG top ht Kft			5.2			4.9			5.1			5.4			5.4
AVG thickness Kft			.44			.40			.40			.48			.47
AVG trap freq GHz			.31			.33			.37			.29			.26
AVG lyr grd -N/kft			65			67			62			63			68
AVG lyr base Kft			4.9			4.7			4.8			5.1			5.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	6	9	8	8	8	8	8	4	4	4	5	5	5
10 to 20 Feet	5	9	7	7	9	8	6	11	9	3	8	5	5	8	6
20 to 30 Feet	9	14	12	12	15	13	10	17	13	6	12	9	9	13	11
30 to 40 Feet	11	17	14	14	17	16	11	19	15	8	16	12	12	16	14
40 to 50 Feet	13	17	15	14	18	16	12	16	14	11	18	14	14	18	16
50 to 60 Feet	12	14	13	13	14	13	10	11	10	11	16	13	14	15	15
60 to 70 Feet	9	8	8	9	8	8	7	5	6	9	8	8	11	10	10
70 to 80 Feet	6	4	5	6	4	5	5	2	4	7	5	6	8	6	7
80 to 90 Feet	4	2	3	3	2	2	3	1	2	5	2	3	5	3	4
90 to 100 Feet	2	1	2	2	1	1	2	1	1	3	2	2	3	1	2
above 100 Feet	21	7	14	11	4	8	24	8	16	34	16	22	15	5	10
Mean height Feet	73	48	60	56	44	50	75	46	61	94	55	75	65	49	57

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			2			5			6			2
% occur 2+ EL dcts			8			3			10			14			6
AVG station N			339			329			336			349			340
AVG station -N/Kft			15			14			15			16			15
AVG sfc wind Kts	14	13	14	17	16	17	13	12	12	10	9.5	10	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 00 N 48 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YE 35 00 N 48 00 W
Radiosonde station height: 39 Feet
Surface obs source: MS113 35 00 N 45 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	1	1	1	1	1	2	1	1	4	1	2	1	1	1
1 GHz	25	8	17	13	6	10	27	9	18	42	11	27	19	7	13
3 GHz	33	13	23	20	10	15	33	12	22	51	16	34	29	13	21
6 GHz	62	42	52	51	39	45	56	32	44	76	47	61	64	51	57
10 GHz	83	75	79	78	73	75	78	66	72	90	79	85	86	82	84
20 GHz	91	87	89	88	86	87	87	82	84	95	91	93	93	91	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	11	4	8	6	6	6	12	4	8	20	4	12	5	3	5
AVG thickness Kft			.42			.25			.39			.58			.47
AVG trap freq GHz			.71			1.3			.78			.48			.33
AVG lyr grd -N/Kft			105			109			106			104			99

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	31	43	37	29	39	34	40	52	46	28	45	37	28	37	33
AVG top ht Kft			5.7			5.5			5.4			5.7			6.1
AVG thickness Kft			.43			.36			.43			.49			43
AVG trap freq GHz			.39			.49			.39			.32			.35
AVG lyr grd -N/Kft			60			59			61			59			60
AVG lyr base Kft			5.4			5.2			5.1			5.3			5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	5	5	7	6	6	8	8	8	3	3	3	4	3	3
10 to 20 Feet	5	8	6	6	9	7	7	11	9	3	7	5	4	5	4
20 to 30 Feet	8	13	11	10	14	12	10	17	13	6	12	9	7	9	8
30 to 40 Feet	11	16	13	13	17	15	12	18	15	8	15	11	10	14	12
40 to 50 Feet	13	18	15	15	18	17	12	17	15	10	18	14	14	18	16
50 to 60 Feet	13	15	14	14	15	15	11	12	12	12	16	14	14	18	16
60 to 70 Feet	10	9	10	10	9	10	8	6	7	10	10	10	13	13	13
70 to 80 Feet	7	6	6	7	5	6	5	3	4	8	6	7	9	8	9
80 to 90 Feet	5	2	3	4	2	3	3	1	2	5	3	4	6	4	5
90 to 100 Feet	3	1	2	2	1	2	2	1	1	4	2	3	4	2	3
above 100 Feet	20	6	13	11	4	7	21	7	14	32	9	21	15	5	10
Mean height Feet	72	50	61	58	46	52	71	46	58	93	56	75	68	53	60

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			1			3			4			1
% occur 2+ EL dcts			5			3			7			7			3
AVG station N			354			338			352			373			352
AVG station -N/Kft			17			14			17			19			18
AVG sfc wind Kts	15	14	14	19	17	18	13	12	13	11	10	10	17	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 00 N 55 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YE 35 00 N 48 00 W
Radiosonde station height: 39 Feet
Surface obs source: MS114 35 00 N 55 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	1	1	1	1	1	2	1	1	4	1	2	1	1	1
1 GHz	23	8	15	12	6	9	23	7	15	39	12	26	18	7	12
3 GHz	33	14	23	20	11	15	30	11	20	50	18	34	31	16	23
6 GHz	64	47	55	55	45	50	55	34	45	75	51	63	69	58	64
10 GHz	85	78	82	82	78	80	77	68	72	91	82	86	89	86	88
20 GHz	92	89	90	91	89	90	86	81	84	95	91	93	94	93	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	11	4	8	6	6	6	12	4	8	20	4	12	6	3	5
AVG thickness Kft			.42			.25			.39			.53			.47
AVG trap freq GHz			.71			1.3			.78			.48			.33
AVG lyr grd -N/Kft			105			109			108			104			99

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	31	43	37	29	39	34	40	52	46	28	45	37	28	37	33
AVG top ht Kft			5.7			5.5			5.4			5.7			6.1
AVG thickness Kft			.43			.36			.43			.49			.43
AVG trap freq GHz			.39			.49			.39			.32			.35
AVG lyr grd -N/Kft			60			59			61			59			60
AVG lyr base Kft			5.4			5.2			5.1			5.3			5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	5	5	5	5	5	9	9	9	4	3	3	3	3	3
10 to 20 Feet	4	7	5	5	7	6	6	10	8	3	6	4	3	4	3
20 to 30 Feet	7	11	9	9	12	11	10	14	12	5	10	8	5	8	6
30 to 40 Feet	10	15	13	13	16	14	11	18	15	8	14	11	8	12	10
40 to 50 Feet	13	17	15	16	18	17	13	17	15	11	18	14	13	16	15
50 to 60 Feet	14	16	15	16	17	16	12	14	13	12	17	14	15	18	17
60 to 70 Feet	11	11	11	12	11	12	9	7	8	11	11	11	14	15	14
70 to 80 Feet	8	7	8	8	6	7	6	4	5	8	7	7	11	10	11
80 to 90 Feet	5	3	4	5	3	4	3	2	3	5	3	4	8	6	7
90 to 100 Feet	3	2	3	2	1	2	2	1	1	4	2	3	5	3	4
above 100 Feet	18	6	12	9	3	6	18	5	11	30	10	20	14	4	9
Mean height Feet	71	52	61	58	48	53	66	45	55	89	58	73	70	56	63

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			1			3			4			1
% occur 2+ EL dcts			5			3			7			7			3
AVG station N			354			338			352			373			352
AVG station -N/Kft			17			14			17			19			16
AVG sfc wind kts	16	15	16	20	19	19	15	14	14	12	11	11	18	17	17

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 32 22 N 64 40 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 78016 32 22 N 64 40 W
Radiosonde station height: 89 Feet
Surface obs source: MSI15 35 00 N 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	0	0	0	1	0	1	1	0	1	0	0	0
1 GHz	18	7	12	8	4	6	19	7	13	29	11	20	14	7	10
3 GHz	27	14	20	15	9	12	26	10	18	40	17	28	28	17	23
6 GHz	64	52	58	56	49	53	57	41	49	71	55	63	71	65	68
10 GHz	85	82	83	83	80	82	78	72	75	89	84	87	90	89	90
20 GHz	92	91	91	91	90	90	86	85	86	94	93	93	95	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	1	3	2	3	1	2	3	2	3	2	2	2
AVG thickness Kft			.56			.39			.62			.65			.38
AVG trap freq GHz			.45			.84			.20			.35			.41
AVG lyr grd -N/Kft			161			156			114			193			182

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	39	46	42	36	40	38	45	53	49	32	42	37	42	48	45
AVG top ht Kft			6.0			5.8			5.2			6.7			6.3
AVG thickness Kft			.43			.42			.46			.36			.48
AVG trap freq GHz			.33			.32			.27			.42			.28
AVG lyr grd -N/Kft			68			65			69			64			72
AVG lyr base Kft			5.7			5.5			4.9			6.5			6.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	4	5	5	5	5	8	7	8	4	3	3	3	2	3
10 to 20 Feet	4	5	5	4	5	5	6	8	7	3	5	4	2	3	3
20 to 30 Feet	7	9	8	8	10	9	8	13	11	5	8	7	5	6	5
30 to 40 Feet	9	13	11	11	14	13	10	15	13	8	12	10	8	10	9
40 to 50 Feet	13	17	15	16	18	17	12	17	15	11	17	14	12	15	13
50 to 60 Feet	14	17	16	17	19	18	13	15	14	12	18	15	15	18	17
60 to 70 Feet	13	13	13	15	14	14	11	10	10	11	12	12	16	17	17
70 to 80 Feet	10	9	9	10	8	9	8	6	7	9	9	9	13	12	13
80 to 90 Feet	6	4	5	5	3	4	4	2	3	6	4	5	8	7	8
90 to 100 Feet	4	2	3	3	1	2	2	1	2	4	2	3	6	4	5
above 100 Feet	16	6	11	7	3	5	17	6	11	28	9	18	13	5	9
Mean height Feet	70	54	62	57	50	53	67	49	58	86	60	73	70	59	64

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			1			1
% occur 2+ EL dcts			10			9			10			12			10
AVG station N			344			324			346			367			339
AVG station -N/Kft			15			12			16			18			13
AVG sfc wind kts	17	15	16	21	19	20	15	14	15	12	11	12	18	17	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 16 N 75 33 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72304 35 16 N 75 33 W
Radiosonde station height: 10 Feet
Surface obs source: MS116 35 00 N 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	2	2	1	1	1	3	3	3	2	2	2	2	2	2
1 GHz	25	14	19	14	9	11	30	18	24	33	17	25	22	14	18
3 GHz	36	23	29	24	17	20	40	26	33	42	25	33	37	27	32
6 GHz	66	57	62	59	52	56	63	53	58	70	59	64	72	65	69
10 GHz	83	79	81	89	77	78	78	74	76	85	82	84	88	85	87
20 GHz	89	87	88	87	85	86	84	82	83	91	89	90	93	91	92

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	13	13	9	10	10	18	16	17	10	11	11	12	16	14
AVG thickness Kft			.40			.30			.43			.54			.33
AVG trap freq GHz			.72			1.2			.51			.33			.86
AVG lyr grd -N/Kft			77			82			72			71			83

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	35	38	36	24	26	25	33	38	36	42	43	43	40	43	42
AVG top ht Kft			5.2			4.6			5.5			5.3			5.2
AVG thickness Kft			.41			.32			.39			.48			.43
AVG trap freq GHz			.42			.54			.44			.32			.37
AVG lyr grd -N/Kft			59			60			58			59			60
AVG lyr base Kft			4.9			4.4			5.2			4.9			4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	9	9	10	10	10	15	14	15	7	7	7	5	6	6
10 to 20 Feet	4	6	5	5	6	6	5	7	6	4	6	5	3	5	4
20 to 30 Feet	6	8	7	7	9	8	7	9	8	6	8	7	5	7	6
30 to 40 Feet	8	11	9	10	12	11	8	11	9	7	11	9	7	9	8
40 to 50 Feet	11	14	12	12	14	13	10	13	12	10	15	12	10	14	12
50 to 60 Feet	12	15	13	13	14	14	10	13	12	12	16	14	13	15	14
60 to 70 Feet	12	13	12	13	13	13	9	10	10	11	13	12	13	15	14
70 to 80 Feet	10	10	10	11	10	10	8	8	8	8	9	9	13	12	13
80 to 90 Feet	6	5	6	6	4	5	5	4	4	5	4	5	9	7	8
90 to 100 Feet	4	3	3	3	2	3	3	2	3	4	3	3	5	4	5
above 100 Feet	19	7	13	10	4	7	21	8	14	27	9	18	16	6	11
Mean height Feet	71	54	62	59	50	54	69	51	60	84	57	70	72	58	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			1			5			3			4
% occur 2+ EL dcts			6			4			6			10			7
AVG station N			344			321			348			375			332
AVG station -N/Kft			16			13			17			19			15
AVG sfc wind Kts	15	15	15	18	18	18	14	14	14	12	12	12	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 38 00 N 71 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YH 38 00 N 71 00 W
Radiosonde station height: 39 Feet
Surface obs source: MS116 35 00 N 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	2	2	2	*	*	*	*	*	*	1	0	1
1 GHz	18	9	13	17	10	14	*	*	*	*	*	*	19	7	13
3 GHz	31	19	25	27	19	23	*	*	*	*	*	*	34	19	27
6 GHz	66	57	62	62	54	58	*	*	*	*	*	*	71	61	66
10 GHz	84	80	82	81	77	79	*	*	*	*	*	*	88	83	85
20 GHz	90	88	89	88	86	87	*	*	*	*	*	*	93	90	91

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	5	5	15	14	15	0	0	0	0	0	0	9	4	7
AVG thickness Kft			.21			.21			*			*			.21
AVG trap freq GHz			1.4			1.1			*			*			1.5
AVG lyr grd -N/Kft			104			99			*			*			109

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	45	53	49	40	44	42	33	50	42	50	61	56	56	55	56
AVG top ht Kft			5.0			4.9			*			*			5.1
AVG thickness Kft			.44			.42			.34			.57			.45
AVG trap freq GHz			.31			.30			.47			.20			.29
AVG lyr grd -N/Kft			62			63			*			*			61
AVG lyr base Kft			4.6			4.6			4.2			4.8			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	9	9	10	10	10	15	14	15	7	7	7	5	6	6
10 to 20 Feet	4	6	5	5	6	6	5	7	6	4	6	5	3	5	4
20 to 30 Feet	6	8	7	7	9	8	7	9	8	6	8	7	5	7	6
30 to 40 Feet	8	11	9	10	12	11	8	11	9	7	11	9	7	9	8
40 to 50 Feet	11	14	12	12	14	13	10	13	12	10	15	12	10	14	12
50 to 60 Feet	12	15	13	13	14	14	10	13	12	12	16	14	13	15	14
60 to 70 Feet	12	13	12	13	13	13	9	10	10	11	13	12	13	15	14
70 to 80 Feet	10	10	10	11	10	10	8	8	8	8	9	9	13	12	13
80 to 90 Feet	6	5	6	6	4	5	5	4	4	5	4	5	9	7	8
90 to 100 Feet	4	3	3	3	2	3	3	2	3	4	3	3	5	4	5
above 100 Feet	19	7	13	10	4	7	21	8	14	27	9	18	16	6	11
Mean height Feet	71	54	62	59	50	54	69	51	60	84	57	70	72	58	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			2			0			0			0
% occur 2+ EL dcts			7			4			2			13			12
AVG station N			260			326			334			168			213
AVG station -N/Kft			10			12			14			5.2			7.6
AVG sfc wind Kts	15	15	15	18	18	18	14	14	14	12	12	12	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 37 51 N 75 28 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72402 37 51 N 75 28 W
Radiosonde station height: 13 Feet
Surface obs source: MS116 35 00 N 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	2	2	1	1	1	3	3	3	5	4	4	2	1	1
1 GHz	27	14	20	13	7	10	30	18	24	41	22	31	22	10	16
3 GHz	38	23	31	23	15	19	40	26	33	51	31	41	37	22	30
6 GHz	67	57	62	59	51	55	64	53	59	75	62	69	72	62	67
10 GHz	84	79	81	80	76	78	78	74	76	88	84	86	88	84	86
20 GHz	89	87	88	87	85	86	84	82	83	92	90	91	93	91	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	13	14	7	7	7	20	17	19	25	19	22	12	8	10
AVG thickness Kft			.38			.27			.41			.51			.33
AVG trap freq GHz			.69			1.1			.62			.37			.73
AVG lyr grd -N/Kft			88			107			76			82			85

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	21	20	10	9	10	20	20	20	27	32	30	22	23	23
AVG top ht Kft			4.8			4.0			4.9			5.4			4.7
AVG thickness Kft			.39			.23			.35			.48			.39
AVG trap freq GHz			.49			.57			.57			.35			.47
AVG lyr grd -N/Kft			58			60			55			59			58
AVG lyr base Kft			4.4			3.7			4.6			5.1			4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	9	9	10	10	10	15	14	15	7	7	7	5	6	5
10 to 20 Feet	4	6	5	5	6	6	5	7	6	4	6	5	3	5	4
20 to 30 Feet	6	8	7	7	9	8	7	9	8	6	8	7	5	7	6
30 to 40 Feet	8	11	9	10	12	11	8	11	9	7	11	9	7	9	8
40 to 50 Feet	11	14	12	12	14	13	10	13	12	10	15	12	10	14	12
50 to 60 Feet	12	15	13	13	14	14	10	13	12	12	16	14	13	15	14
60 to 70 Feet	12	13	12	13	13	13	9	10	10	11	13	12	13	15	14
70 to 80 Feet	10	10	10	11	10	10	8	8	8	8	9	9	13	12	13
80 to 90 Feet	6	5	6	6	4	5	5	4	4	5	4	5	9	7	8
90 to 100 Feet	4	3	3	3	2	3	3	2	3	4	3	3	5	4	5
above 100 Feet	19	7	13	10	4	7	21	8	14	27	9	18	16	6	11
Mean height Feet	71	54	62	59	50	54	69	51	60	84	57	70	72	58	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			0			3			7			1
% occur 2+ EL dcts			2			1			2			4			2
AVG station N			336			316			339			364			323
AVG station -N/Kft			15			12			16			19			14
AVG sfc wind Kts	15	15	15	18	18	18	14	14	14	12	12	12	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 32 54 N 80 01 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72208 32 54 N 80 01 W
Radiosonde station height: 43 Feet
Surface obs source: MSI16 35 00 N 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	0	0	0	2	1	2	1	1	1	1	1	1
1 GHz	22	9	16	11	5	8	28	11	19	30	12	21	20	9	15
3 GHz	33	17	25	21	12	17	37	18	27	39	19	29	35	21	28
6 GHz	65	53	59	57	49	53	61	48	54	68	56	62	71	61	66
10 GHz	82	77	80	79	75	77	77	71	74	85	80	83	88	84	86
20 GHz	88	86	87	86	84	85	83	80	81	90	88	89	93	90	91

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	5	6	3	3	3	13	5	9	5	4	5	9	6	8
AVG thickness Kft			.36			.24			.43			.42			.34
AVG trap freq GHz			.73			1.2			.46			.38			.83
AVG lyr grd -N/Kft			86			99			85			84			76

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	37	32	34	28	23	26	39	35	37	38	33	36	41	37	39
AVG top ht Kft			5.2			5.2			5.8			4.5			5.3
AVG thickness Kft			.42			.38			.43			.44			.43
AVG trap freq GHz			.37			.44			.32			.36			.37
AVG lyr grd -N/Kft			61			62			60			60			60
AVG lyr base Kft			4.9			4.9			5.5			4.2			5.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	9	9	10	10	10	15	14	15	7	7	7	5	6	6
10 to 20 Feet	4	6	5	5	6	6	5	7	6	4	6	5	3	5	4
20 to 30 Feet	6	8	7	7	9	8	7	9	8	6	8	7	5	7	6
30 to 40 Feet	8	11	9	10	12	11	8	11	9	7	11	9	7	9	8
40 to 50 Feet	11	14	12	12	14	13	10	13	12	10	15	12	10	14	12
50 to 60 Feet	12	15	13	13	14	14	10	13	12	12	16	14	13	15	14
60 to 70 Feet	12	13	12	13	13	13	9	10	10	11	13	12	13	15	14
70 to 80 Feet	10	10	10	11	10	10	8	8	8	8	9	9	13	12	13
80 to 90 Feet	6	5	6	6	4	5	5	4	4	5	4	5	9	7	8
90 to 100 Feet	4	3	3	3	2	3	3	2	3	4	3	3	5	4	5
above 100 Feet	19	7	13	10	4	7	21	8	14	27	9	19	16	6	11
Mean height Feet	71	54	62	59	50	54	69	51	60	84	57	70	72	53	63

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			2			1			2
% occur 2+ EL dcts			7			5			8			8			8
AVG station N			341			318			348			370			328
AVG station -N/Kft			15			12			16			16			14
AVG sfc wind Kts	15	15	15	18	18	18	14	14	14	12	12	12	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY:

Specified location: 30 28 N 86 31 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72221 30 28 N 86 31 W
Radiosonde station height: 95 Feet
Surface obs source: MS81 25 00 N 85 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	2	2	1	1	1	2	3	2	2	2	2	1	2	1
1 GHz	34	17	25	27	11	19	38	22	30	39	20	30	30	16	23
3 GHz	45	28	37	39	19	29	49	32	40	49	30	39	46	30	38
6 GHz	78	70	74	74	61	67	77	68	73	81	75	78	82	75	78
10 GHz	92	90	91	89	85	87	91	89	90	94	92	93	93	92	93
20 GHz	95	95	95	93	92	93	95	94	95	97	97	97	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	10	12	11	8	5	7	15	19	18	10	13	12	5	12	9
AVG thickness Kft			.38			.33			.36			.38			.45
AVG trap freq GHz			.69			.80			.77			.57			.64
AVG lyr grd -N/Kft			99			82			80			95			138

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	38	31	34	35	28	32	44	31	38	33	30	32	38	33	35
AVG top ht Kft			4.9			4.4			5.2			5.5			4.7
AVG thickness Kft			.42			.38			.47			.38			.44
AVG trap freq GHz			.37			.46			.29			.39			.35
AVG lyr grd -N/Kft			61			58			64			63			60
AVG lyr base Kft			4.6			4.1			4.8			5.2			4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	5	4	5	4	3	3	2	1	1	2	2	2
10 to 20 Feet	2	4	3	3	4	3	3	4	4	2	4	3	1	3	2
20 to 30 Feet	4	6	5	4	7	6	4	7	5	4	5	4	3	5	4
30 to 40 Feet	5	8	7	6	10	8	6	9	8	5	6	6	5	7	6
40 to 50 Feet	9	14	12	10	15	13	10	15	13	9	13	11	8	12	10
50 to 60 Feet	12	18	15	12	18	15	13	18	15	13	20	16	11	16	14
60 to 70 Feet	13	16	14	13	15	14	11	14	13	13	18	16	13	17	15
70 to 80 Feet	10	12	11	11	11	11	8	9	9	9	12	11	12	15	14
80 to 90 Feet	7	6	7	7	5	6	6	5	5	6	6	6	10	8	9
90 to 100 Feet	4	3	4	4	3	4	4	2	3	4	3	3	6	5	6
above 100 Feet	30	11	20	24	8	16	32	13	23	35	13	24	27	10	19
Mean height Feet	91	65	78	81	60	70	93	66	79	100	70	85	90	67	78

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			1			4			3			2
% occur 2+ EL dcts			7			6			8			7			7
AVG station N			346			324			357			370			332
AVG station -N/Kft			16			14			18			18			15
AVG sfc wind Kts	12	12	12	14	13	14	12	11	11	10	10	10	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 30 24 N 81 42 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72206 30 24 N 81 42 W
Radiosonde station height: 30 Feet
Surface obs source: MS81 25 00 N 85 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	0	1	2	1	1	2	1	2	1	1	1
1 GHz	33	14	23	26	9	18	36	16	26	39	17	28	30	13	22
3 GHz	45	24	34	39	17	28	47	24	35	48	27	37	47	27	37
6 GHz	78	68	73	74	60	67	76	64	70	81	73	77	82	73	78
10 GHz	92	89	90	89	85	87	90	87	89	93	92	93	94	91	93
20 GHz	95	94	95	93	92	93	94	94	94	97	97	97	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	6	7	8	2	5	11	6	9	8	7	8	8	7	8
AVG thickness Kft			.42			.30			.47			.53			.37
AVG trap freq GHz			.80			1.2			.78			.35			.84
AVG lyr grd -N/Kft			122			137			138			86			128

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	33	30	31	27	29	28	41	32	37	26	21	24	36	36	36
AVG top ht Kft			5.3			5.4			5.5			5.2			5.3
AVG thickness Kft			.40			.38			.43			.42			.39
AVG trap freq GHz			.44			.43			.38			.47			.48
AVG lyr grd -N/Kft			56			58			57			53			58
AVG lyr base Kft			5.0			5.1			5.2			4.8			5.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	3	5	4	5	4	3	3	2	1	1	2	2	2
10 to 20 Feet	2	4	3	3	4	3	3	4	4	2	4	3	1	3	2
20 to 30 Feet	4	6	5	4	7	6	4	7	5	4	5	4	3	5	4
30 to 40 Feet	5	8	7	6	10	8	6	9	8	5	6	6	5	7	6
40 to 50 Feet	9	14	12	10	15	13	10	15	13	9	13	11	8	12	10
50 to 60 Feet	12	18	15	12	18	15	13	18	15	13	20	16	11	16	14
60 to 70 Feet	13	16	14	13	15	14	11	14	13	13	18	16	13	17	15
70 to 80 Feet	10	12	11	11	11	11	8	9	9	9	12	11	13	15	14
80 to 90 Feet	7	6	7	7	5	6	6	5	5	6	6	6	10	8	9
90 to 100 Feet	4	3	4	4	3	4	4	2	3	4	3	3	6	5	6
above 100 Feet	30	11	20	24	8	16	32	13	23	35	13	24	27	10	19
Mean height Feet	91	65	78	81	60	70	93	66	79	100	70	85	90	67	78

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			0			2			2			1
% occur 2+ EL dcts			4			4			6			4			5
AVG station N			350			326			358			375			342
AVG station -N/Kft			16			13			18			19			15
AVG sfc wind Kts	12	12	12	14	13	14	12	11	11	10	10	10	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 34 04 N 118 01 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 74704 34 04 N 118 01 W
Radiosonde station height: 302 Feet
Surface obs source: HS120 35 00 N 115 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	2	1	1	3	2	1	1	1	1	2	1	*	*	*
1 GHz	28	16	22	33	21	27	26	12	19	27	15	21	*	*	*
3 GHz	33	21	27	37	28	33	29	16	23	31	19	25	*	*	*
6 GHz	46	32	39	50	40	45	44	27	35	45	28	36	*	*	*
10 GHz	72	62	67	70	64	67	72	61	66	73	61	67	*	*	*
20 GHz	84	81	83	82	81	82	85	82	83	86	81	83	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	15	10	8	28	18	6	12	9	11	18	15	0	0	0
AVG thickness Kft			.27			.16			.27			.37			*
AVG trap freq GHz			1.7			1.8			1.0			2.3			*
AVG lyr grd -N/Kft			122			118			93			155			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	50	53	51	26	56	41	66	64	65	73	91	82	33	0	17
AVG top ht Kft			3.7			4.9			3.0			2.9			3.8
AVG thickness Kft			.41			.29			.55			.63			.17
AVG trap freq GHz			.66			.59			.21			.15			1.7
AVG lyr grd -N/Kft			66			62			72			77			55
AVG lyr base Kft			3.4			4.7			2.7			2.6			3.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	9	9	10	10	10	9	9	9	9	10	10	8	8	8
10 to 20 Feet	8	13	10	9	15	12	7	12	10	7	12	10	7	12	10
20 to 30 Feet	13	22	17	13	21	17	14	23	19	13	23	18	11	20	15
30 to 40 Feet	15	22	18	11	18	15	17	25	21	18	24	21	14	20	17
40 to 50 Feet	11	12	12	9	11	10	12	13	13	13	12	12	10	13	12
50 to 60 Feet	7	6	7	6	6	6	8	7	8	7	5	6	8	7	8
60 to 70 Feet	4	3	4	4	3	4	4	3	3	4	3	3	5	3	4
70 to 80 Feet	3	1	2	3	2	2	3	1	2	3	1	2	3	2	2
80 to 90 Feet	2	1	1	2	1	2	2	1	1	2	1	1	3	1	2
90 to 100 Feet	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
above 100 Feet	27	10	18	30	12	21	23	7	15	24	9	17	30	12	21
Mean height Feet	74	45	60	79	48	63	69	41	55	69	43	56	81	50	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB ducts			8			3			4			17			9
% occur 2+ EL ducts			15			4			19			34			4
AVG station N			318			312			325			340			296
AVG station -N/Kft			14			10			16			19			11
AVG sfc wind Kts	10	11	10	10	11	10	11	12	12	10	10	10	9.9	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 33 55 N 118 24 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72295 33 55 N 118 24 W
Radiosonde station height: 112 Feet
Surface obs source: MS120 35 00 N 115 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RSM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	3	2	0	2	1	5	2	3	1	4	2	0	4	2
1 GHz	31	20	25	30	18	24	38	13	26	24	22	23	36	25	28
3 GHz	35	24	30	34	22	28	45	17	31	27	26	27	34	31	32
6 GHz	49	35	42	47	33	40	58	28	43	40	35	38	50	42	46
10 GHz	73	63	68	68	59	64	79	62	70	71	64	68	75	68	72
20 GHz	85	82	83	81	78	79	89	82	86	84	82	83	85	84	85

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	17	13	0	12	6	33	13	23	0	21	11	0	23	12
AVG thickness Kft			.43			.33			.41			.56			.41
AVG trap freq GHz			.57			.58			.74			.44			.54
AVG lyr grd -N/Kft			100			99			92			84			124

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	17	46	31	8	29	15	33	52	43	33	68	51	0	35	18
AVG top ht Kft			2.6			2.5			2.9			2.4			2.6
AVG thickness Kft			.62			.41			.60			.89			.59
AVG trap freq GHz			.20			.34			.18			.09			.21
AVG lyr grd -N/Kft			67			66			69			70			62
AVG lyr base Kft			2.2			2.2			2.5			1.9			2.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	9	9	10	10	10	9	8	8	9	10	10	8	8	8
10 to 20 Feet	8	13	10	9	15	12	7	12	10	7	12	10	7	12	10
20 to 30 Feet	13	22	17	13	21	17	14	23	19	13	23	18	11	20	16
30 to 40 Feet	15	22	18	11	18	15	17	25	21	18	24	21	14	20	17
40 to 50 Feet	11	12	12	9	11	10	12	13	13	13	12	12	10	13	12
50 to 60 Feet	7	6	7	6	6	6	8	7	8	7	5	6	8	7	8
60 to 70 Feet	4	3	4	4	3	4	4	3	3	4	2	3	5	3	4
70 to 80 Feet	3	1	2	3	2	2	3	1	2	3	1	2	3	2	2
80 to 90 Feet	2	1	1	2	1	2	2	1	1	2	1	1	3	1	2
90 to 100 Feet	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
above 100 Feet	27	10	18	30	12	21	23	7	15	24	9	17	30	12	21
Mean height Feet	74	45	60	79	48	63	69	41	55	69	43	56	81	50	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			0			3			7			1
% occur 2+ EL dcts			5			2			6			8			4
AVG station N			334			324			334			349			330
AVG station -N/Kft			19			15			19			24			18
AVG sfc wind Kts	10	11	10	10	11	10	11	12	12	10	10	10	9.3	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 34 07 N 119 07 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72391 34 07 N 119 07 W
Radiosonde station height: 13 Feet
Surface obs source: MS120 35 00 N 115 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	5	3	4	4	2	3	2	3	3	8	5	6	6	4	5
1 GHz	40	21	31	43	18	30	31	17	24	43	22	32	46	27	36
3 GHz	47	25	36	51	22	37	36	21	29	47	24	36	52	32	42
6 GHz	59	35	47	63	34	48	49	32	41	57	32	44	65	43	54
10 GHz	79	64	71	78	60	69	74	64	69	79	62	71	83	69	76
20 GHz	88	82	85	87	79	83	86	83	85	89	81	85	90	84	87

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	28	18	23	38	15	27	16	18	17	28	16	22	31	23	27
AVG thickness Kft			.67			.29			.52			1.4			.50
AVG trap freq GHz			.62			1.2			.64			.20			.40
AVG lyr grd -M/Kft			164			335			119			101			100

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	57	61	59	50	36	43	48	69	59	81	76	79	50	61	56
AVG top ht Kft			2.7			2.7			2.6			2.3			3.4
AVG thickness Kft			.63			.35			.70			1.0			.51
AVG trap freq GHz			.26			.54			.14			.08			.26
AVG lyr grd -M/Kft			74			71			68			88			70
AVG lyr base Kft			2.4			2.5			2.1			1.9			3.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	9	9	10	10	10	9	8	8	9	10	10	8	9	8
10 to 20 Feet	8	13	10	9	15	12	7	12	10	7	12	10	7	12	10
20 to 30 Feet	13	22	17	13	21	17	14	23	19	13	23	18	11	20	15
30 to 40 Feet	15	22	18	11	18	15	17	25	21	18	24	21	14	20	17
40 to 50 Feet	11	12	12	9	11	10	12	13	13	13	12	12	10	13	12
50 to 60 Feet	7	6	7	6	6	6	8	7	8	7	5	6	8	7	8
60 to 70 Feet	4	3	4	4	3	4	4	3	3	4	3	3	5	3	4
70 to 80 Feet	3	1	2	3	2	2	3	1	2	3	1	2	3	2	2
80 to 90 Feet	2	1	1	2	1	2	2	1	1	2	1	1	3	1	2
90 to 100 Feet	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
above 100 Feet	27	10	18	30	12	21	23	7	15	24	9	17	30	12	21
Mean height Feet	74	45	60	79	48	63	69	41	55	69	43	56	81	50	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SR dcts			4			3			3			7			5
% occur 2+ EL dcts			16			9			13			19			22
AVG station ft			334			325			335			347			330
AVG station -M/Kft			19			15			19			27			16
AVG sfc wind Kts	10	11	10	10	11	10	11	12	12	10	10	10	9.3	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 32 49 N 117 07 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72290 32 49 N 117 07 W
Radiosonde station height: 407 Feet
Surface obs source: MS120 35 00 N 115 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM CON RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	3	3	2	3	3	3	2	2	5	3	4	3	4	3
1 GHz	37	21	29	37	24	30	31	13	22	40	21	31	39	25	32
3 GHz	43	26	35	43	30	37	38	17	27	47	26	36	46	32	39
6 GHz	56	37	47	55	42	48	52	28	40	58	34	46	60	44	52
10 GHz	77	65	71	73	65	69	76	62	69	80	64	72	80	69	75
20 GHz	87	83	85	84	81	83	87	82	85	89	82	86	89	85	87

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	25	22	23	18	26	22	24	15	20	33	21	27	23	27	25
AVG thickness Kft			.44			.28			.40			.70			.38
AVG trap freq GHz			.89			.86			1.4			.55			.78
AVG lyr grd -N/Kft			91			88			90			94			93

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	42	54	48	28	38	33	47	65	56	56	72	64	37	41	39
AVG top ht Kft			2.5			2.7			2.6			2.2			2.6
AVG thickness Kft			.60			.42			.64			.78			.56
AVG trap freq GHz			.20			.30			.18			.11			.21
AVG lyr grd -N/Kft			70			72			71			68			71
AVG lyr base Kft			2.2			2.5			2.2			1.7			2.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	9	9	10	10	10	9	8	8	9	10	10	8	8	8
10 to 20 Feet	8	13	10	9	15	12	7	12	10	7	12	10	7	12	10
20 to 30 Feet	13	22	17	13	21	17	14	23	19	13	23	18	11	20	15
30 to 40 Feet	15	22	18	11	18	15	17	25	21	18	24	21	14	20	17
40 to 50 Feet	11	12	12	9	11	10	12	13	13	13	12	12	10	13	12
50 to 60 Feet	7	6	7	6	6	6	8	7	8	7	5	6	8	7	8
60 to 70 Feet	4	3	4	4	3	4	4	3	3	4	3	3	5	3	4
70 to 80 Feet	3	1	2	3	2	2	3	1	2	3	1	2	3	2	2
80 to 90 Feet	2	1	1	2	1	2	2	1	1	2	1	1	3	1	2
90 to 100 Feet	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
above 100 Feet	27	10	18	30	12	21	23	7	15	24	9	17	30	12	21
Mean height Feet	74	45	60	79	48	63	69	41	55	69	43	56	81	50	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			3			5			6			3
% occur 2+ EL dcts			8			4			9			14			6
AVG station N			330			321			329			343			326
AVG station -N/Kft			19			16			20			24			18
AVG sfc wind Kts	10	11	10	10	11	10	11	12	12	10	10	10	9.3	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 33 15 N 119 27 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72291 33 15 N 119 27 W
Radiosonde station height: 502 Feet
Surface obs source: MS120 35 00 N 115 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	8	8	8	6	6	6	5	5	5	13	12	13	8	7	8
1 GHz	48	34	41	48	32	40	37	24	31	56	46	51	51	35	43
3 GHz	55	41	48	55	39	47	43	31	37	63	52	58	59	41	50
6 GHz	66	50	58	66	49	58	56	40	48	71	58	64	70	52	61
10 GHz	82	72	77	80	69	75	78	68	73	86	77	81	85	74	79
20 GHz	90	86	88	88	84	86	88	85	87	92	88	90	91	86	89

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	39	37	38	38	35	37	26	28	27	51	48	50	41	35	38
AVG thickness Kft			.48			.38			.50			.60			.44
AVG trap freq GHz			.40			.52			.46			.25			.38
AVG lyr grd -N/Kft			97			97			96			96			97

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	38	39	38	30	32	31	45	46	46	42	40	41	34	36	35
AVG top ht Kft			2.2			2.2			2.1			1.8			2.5
AVG thickness Kft			.52			.40			.53			.68			.49
AVG trap freq GHz			.27			.38			.23			.15			.33
AVG lyr grd -N/Kft			67			62			75			66			67
AVG lyr base Kft			1.8			2.0			1.8			1.3			2.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	9	9	10	10	10	9	8	8	9	10	10	8	8	8
10 to 20 Feet	8	13	10	9	15	12	7	12	10	7	12	10	7	12	10
20 to 30 Feet	13	22	17	13	21	17	14	23	19	13	23	18	11	20	15
30 to 40 Feet	15	22	18	11	18	15	17	25	21	18	24	21	14	20	17
40 to 50 Feet	11	12	12	9	11	10	12	13	13	13	12	12	10	13	12
50 to 60 Feet	7	6	7	6	6	6	8	7	8	7	5	6	8	7	8
60 to 70 Feet	4	3	4	4	3	4	4	3	3	4	3	3	5	3	4
70 to 80 Feet	3	1	2	3	2	2	3	1	2	3	1	2	3	2	2
80 to 90 Feet	2	1	1	2	1	2	2	1	1	2	1	1	3	1	2
90 to 100 Feet	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1
above 100 Feet	27	10	18	30	12	21	23	7	15	24	9	17	30	12	21
Mean height Feet	74	45	60	79	48	63	69	41	55	69	43	56	81	50	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			5			4			4			7			3
% occur 2+ EL dcts			5			4			4			6			7
AVG station N			326			319			324			335			326
AVG station -N/Kft			19			17			19			23			18
AVG sfc wind Kts	10	11	10	10	11	10	11	12	12	10	10	10	9.3	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 37 43 N 122 12 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72493 37 43 N 122 12 W
Radiosonde station height: 20 Feet
Surface obs source: MS121 35 00 N 125 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	1	1	1	1	1	2	1	2	4	1	2	1	1	1
1 GHz	19	6	13	14	5	9	20	5	12	29	7	18	15	7	11
3 GHz	24	8	16	17	7	12	25	7	16	36	9	23	19	10	14
6 GHz	39	19	29	31	16	24	40	16	28	47	19	33	37	23	30
10 GHz	64	51	58	59	47	53	65	51	58	67	51	59	66	56	61
20 GHz	78	72	75	75	69	72	78	73	75	78	71	74	80	75	77

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	6	10	8	5	7	18	6	12	27	5	16	6	8	7
AVG thickness Kft			.34			.28			.34			.42			.32
AVG trap freq GHz			1.0			1.1			1.0			.62			1.4
AVG lyr grd -N/Kft			88			89			104			72			88

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	24	43	34	15	29	22	25	44	35	35	69	52	21	30	26
AVG top ht Kft			2.9			3.8			2.3			2.2			3.4
AVG thickness Kft			.52			.36			.50			.78			.46
AVG trap freq GHz			.33			.50			.30			.14			.39
AVG lyr grd -N/Kft			61			59			62			65			57
AVG lyr base Kft			2.6			3.5			2.0			1.7			3.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	14	15	15	15	15	15	13	14	18	16	17	13	13	13
10 to 20 Feet	11	15	13	13	17	15	11	16	13	12	15	13	9	14	12
20 to 30 Feet	15	22	19	17	23	20	16	23	19	15	21	18	14	21	18
30 to 40 Feet	16	20	18	17	20	18	16	22	19	14	20	17	16	20	18
40 to 50 Feet	13	13	13	13	12	12	12	14	13	11	13	12	14	14	14
50 to 60 Feet	8	7	7	8	6	7	8	6	7	7	6	7	10	8	9
60 to 70 Feet	4	2	3	4	2	3	4	2	3	4	2	3	6	4	5
70 to 80 Feet	3	1	2	2	1	2	3	1	2	3	1	2	3	2	2
80 to 90 Feet	2	1	1	1	1	1	2	1	1	2	1	1	2	1	1
90 to 100 Feet	1	0	1	1	0	1	1	0	1	1	1	1	1	1	1
above 100 Feet	12	3	8	10	3	7	12	2	7	15	4	10	13	4	8
Mean height Feet	49	34	42	45	32	39	48	33	40	51	35	43	53	36	45

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SR dcts			1			1			1			2			0
% occur 2+ EL dcts			3			1			3			4			3
AVG station N			329			323			327			336			328
AVG station -N/Kft			18			14			18			23			16
AVG sfc wind Kts	15	15	15	15	15	15	17	16	16	14	14	14	14	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 34 45 N 120 34 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72393 34 45 N 120 34 W
Radiosonde station height: 328 Feet
Surface obs source: NS121 35 00 N 125 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	2	2	2	2	2	2	1	1	3	2	2	3	2	2
1 GHz	21	9	15	18	10	14	19	5	12	24	11	17	22	11	17
3 GHz	26	12	19	23	13	18	24	7	16	30	14	22	29	15	22
6 GHz	41	23	32	36	22	29	39	16	28	43	24	33	46	29	37
10 GHz	65	54	59	62	51	56	64	51	57	64	54	59	71	59	65
20 GHz	78	74	76	77	71	74	78	73	75	76	73	75	83	77	80

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	19	12	15	15	12	14	17	6	12	22	14	18	21	15	18
AVG thickness Kft			.40			.35			.34			.57			.35
AVG trap freq GHz			1.0			.66			1.2			1.2			.86
AVG lyr grd -N/Kft			100			100			141			81			79

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	35	42	38	23	28	26	41	48	45	49	60	55	27	31	29
AVG top ht Kft			2.3			2.7			2.1			2.0			2.5
AVG thickness Kft			.53			.35			.52			.78			.46
AVG trap freq GHz			.35			.55			.28			.12			.42
AVG lyr grd -N/Kft			62			59			61			68			59
AVG lyr base Kft			1.9			2.4			1.7			1.5			2.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	14	15	15	15	15	15	13	14	18	16	17	13	13	13
10 to 20 Feet	11	15	13	13	17	15	11	16	13	12	15	13	9	14	12
20 to 30 Feet	15	22	19	17	23	20	16	23	19	15	21	18	14	21	18
30 to 40 Feet	16	20	18	17	20	18	16	22	19	14	20	17	16	20	18
40 to 50 Feet	13	13	13	13	12	12	12	14	13	11	13	12	14	14	14
50 to 60 Feet	8	7	7	8	6	7	8	6	7	7	6	7	10	8	9
60 to 70 Feet	4	2	3	4	2	3	4	2	3	4	2	3	6	4	5
70 to 80 Feet	3	1	2	2	1	2	3	1	2	3	1	2	3	2	2
80 to 90 Feet	2	1	1	1	1	1	2	1	1	2	1	1	2	1	1
90 to 100 Feet	1	0	1	1	0	1	1	0	1	1	1	1	1	1	1
above 100 Feet	12	3	8	10	3	7	12	2	7	15	4	10	13	4	8
Mear height Feet	49	34	42	45	32	39	48	33	40	51	35	43	53	36	45

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			1			2			4			2
% occur 2+ EL dcts			5			2			5			7			3
AVG station N			328			322			327			336			325
AVG station -N/Kft			19			16			19			23			17
AVG sfc wind Kts	15	15	15	15	15	15	17	16	16	14	14	14	14	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 00 N 135 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YN 30 00 N 140 00 W
Radiosonde station height: 39 Feet
Surface obs source: MS122 35 00 N 135 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz .	3	0	2	3	1	2	2	1	1	3	0	2	1	0	1
1 GHz	27	6	16	22	5	13	28	6	17	38	7	23	20	4	12
3 GHz	33	8	21	28	7	17	34	8	21	46	10	28	27	7	17
6 GHz	55	27	41	47	23	35	52	22	37	66	32	49	54	32	43
10 GHz	80	67	73	74	61	68	77	63	70	86	72	79	81	72	76
20 GHz	89	84	86	85	80	82	87	82	84	92	87	90	90	85	88

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&r	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	3	12	22	5	14	17	4	11	25	2	14	15	2	*
AVG thickness Kft			.36			.29			.36			.45			.33
AVG trap freq GHz			1.0			.81			.75			.82			1.7
AVG lyr grd -N/Kft			115			67			88			149			157

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	47	66	57	38	57	48	51	67	59	53	68	61	47	71	59
AVG top ht Kft			5.2			5.2			5.0			5.5			5.3
AVG thickness Kft			.61			.57			.59			.66			.63
AVG trap freq GHz			.18			.20			.18			.16			.18
AVG lyr grd -N/Kft			68			66			69			71			68
AVG lyr base Kft			4.9			4.8			4.7			5.1			4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	8	7	7	10	9	10	9	7	8	6	5	5	6	6	6
10 to 20 Feet	7	10	8	9	11	10	7	11	9	5	8	6	6	8	7
20 to 30 Feet	11	17	14	14	19	16	11	19	15	8	15	12	10	14	12
30 to 40 Feet	14	22	19	17	22	20	14	24	19	11	21	16	13	19	16
40 to 50 Feet	15	20	17	16	18	17	15	19	17	14	21	17	16	21	19
50 to 60 Feet	12	12	12	12	10	11	11	10	10	11	13	12	14	15	14
60 to 70 Feet	7	5	6	6	4	5	6	3	4	9	6	7	10	8	9
70 to 80 Feet	4	2	3	4	2	3	3	1	2	5	3	4	6	3	5
80 to 90 Feet	2	1	2	2	1	1	2	1	1	3	1	2	3	2	2
90 to 100 Feet	2	0	1	1	0	1	1	0	1	2	1	1	2	0	1
above 100 Feet	18	4	11	11	2	7	20	4	12	28	6	17	15	4	9
Mean height Feet	66	43	54	51	38	44	67	40	53	82	48	65	63	45	54

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			3			5			6			2
% occur 2+ EL dcts			5			3			4			7			5
AVG station N			346			339			342			355			346
AVG station -N/Kft			15			15			15			17			16
AVG sfc wind Kts	14	13	14	16	16	16	14	13	13	12	12	12	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 30 00 N 140 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YN 30 00 N 140 00 W
Radiosonde station height: 39 Feet
Surface obs source: MS122 35 00 N 135 00 W

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	0	2	3	1	2	2	1	1	3	0	2	1	0	1
1 GHz	27	6	16	22	5	13	28	6	17	38	7	23	20	4	12
3 GHz	33	8	21	28	7	17	34	8	21	46	10	28	27	7	17
6 GHz	55	27	41	47	23	35	52	22	37	66	32	49	54	32	43
10 GHz	80	67	73	74	61	68	77	63	70	86	72	79	81	72	76
20 GHz	89	84	86	85	80	82	87	82	84	92	87	90	90	85	88

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	3	12	22	5	14	17	4	11	25	2	14	15	2	9
AVG thickness Kft			.36			.29			.36			.45			.33
AVG trap freq GHz			1.0			.81			.75			.82			1.7
AVG lyr grd -N/Kft			115			67			88			149			157

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	47	66	57	38	57	48	51	67	59	53	68	61	47	71	59
AVG top ht Kft			5.2			5.2			5.9			5.5			5.3
AVG thickness Kft			.61			.57			.59			.66			.63
AVG trap freq GHz			.18			.20			.18			.16			.18
AVG lyr grd -N/Kft			68			66			69			71			68
AVG lyr base Kft			4.9			4.8			4.7			5.1			4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	8	7	7	10	9	10	9	7	8	6	5	5	6	6	6
10 to 20 Feet	7	10	8	9	11	10	7	11	9	5	8	6	6	8	7
20 to 30 Feet	11	17	14	14	19	16	11	19	15	8	15	12	10	14	12
30 to 40 Feet	14	22	18	17	22	20	14	24	19	11	21	16	13	19	16
40 to 50 Feet	15	20	17	16	18	17	15	19	17	14	21	17	16	21	19
50 to 60 Feet	12	12	12	12	10	11	11	10	10	11	13	12	14	15	14
60 to 70 Feet	7	5	6	6	4	5	6	3	4	8	6	7	10	8	9
70 to 80 Feet	4	2	3	4	2	3	3	1	2	5	3	4	6	3	5
80 to 90 Feet	2	1	2	2	1	1	2	1	1	3	1	2	3	2	2
90 to 100 Feet	2	0	1	1	0	1	1	0	1	2	1	1	2	0	1
above 100 Feet	18	4	11	11	2	7	20	4	12	28	6	17	15	4	9
Mean height Feet	66	43	54	51	38	44	67	48	53	82	48	65	63	45	54

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			3			5			6			2
% occur 2+ EL dcts			5			3			4			7			5
AVG station N			346			339			342			355			346
AVG station -N/Kft			15			15			15			17			16
AVG sfc wind Kts	14	13	14	16	16	16	14	13	13	12	12	12	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 00 N 155 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91165 21 58 N 159 21 W
Radiosonde station height: 118 Feet
Surface obs source: MS124 35 00 N 155 00 W

PERCENT OCCURRENCE OF ENHANCED SUFFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	7	1	4	6	1	3	7	1	4	8	0	4	8	1	4
1 GHz	38	7	22	29	4	17	38	7	23	49	9	29	36	6	21
3 GHz	48	9	28	38	6	22	46	9	28	58	12	35	48	10	29
6 GHz	64	31	47	54	24	39	59	22	40	74	39	57	68	38	53
10 GHz	80	64	72	75	57	66	75	54	64	87	73	80	84	70	77
20 GHz	87	78	83	84	73	79	82	71	77	92	86	89	90	82	86

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	4	22	37	4	21	38	4	21	43	2	23	45	5	25
AVG thickness Kft			.37			.34			.40			.39			.35
AVG trap freq GHz			.51			.60			.50			.41			.54
AVG lyr grd -N/Kft			67			67			67			71			64

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	43	64	53	40	60	50	42	66	54	48	69	59	40	60	50
AVG top ht Kft			6.6			6.4			6.6			6.7			6.7
AVG thickness Kft			.52			.52			.53			.54			.51
AVG trap freq GHz			.26			.26			.26			.26			.28
AVG lyr grd -N/Kft			61			61			65			61			58
AVG lyr base Kft			6.2			6.0			6.2			6.3			6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	13	12	13	16	15	15	19	17	18	9	7	8	10	9	10
10 to 20 Feet	8	10	9	10	12	11	9	13	11	5	8	7	7	8	8
20 to 30 Feet	11	15	13	13	17	15	12	18	15	8	13	11	10	13	12
30 to 40 Feet	13	17	15	16	18	17	12	19	16	10	16	13	13	16	15
40 to 50 Feet	13	16	15	14	16	15	12	14	13	12	18	15	15	18	16
50 to 60 Feet	11	12	11	11	11	11	8	8	8	11	15	13	13	15	14
60 to 70 Feet	7	6	7	6	5	6	5	3	4	7	8	8	10	9	9
70 to 80 Feet	4	3	4	3	2	3	3	2	2	5	5	5	6	5	5
80 to 90 Feet	3	1	2	2	1	1	2	1	1	4	2	3	4	2	3
90 to 100 Feet	2	1	1	1	1	1	1	1	1	2	1	2	2	1	2
above 100 Feet	16	4	10	8	2	5	17	5	11	26	7	17	11	3	7
Mean height Feet	59	41	50	45	35	40	57	37	47	79	50	64	55	44	49

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			8			6			6			8			10
% occur 2+ EL dcts			10			6			9			13			10
AVG station N			362			354			362			367			364
AVG station -N/Kft			17			16			17			17			17
AVG sfc wind Kts	16	15	15	19	18	18	14	13	13	13	12	12	18	17	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 00 N 165 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91066 28 13 N 177 22 W
Radiosonde station height: 0 Feet
Surface obs source: MS125 35 00 N 165 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	2	2	2	2	2	2	2	2	4	2	3	2	1	2
1 GHz	24	9	16	18	8	13	22	8	15	35	13	24	20	8	14
3 GHz	30	13	21	24	12	18	26	10	18	42	17	29	28	12	20
6 GHz	50	33	41	44	30	37	39	20	30	61	41	51	55	42	48
10 GHz	71	64	67	67	61	64	60	50	55	79	71	75	77	73	75
20 GHz	80	78	79	78	76	77	72	68	70	86	83	85	85	84	85

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	9	12	16	11	14	13	8	11	21	10	16	12	8	10
AVG thickness Kft			.39			.28			.40			.46			.43
AVG trap freq GHz			.56			.78			.43			.42			.63
AVG lyr grd -N/Kft			108			107			95			117			111

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	37	50	43	39	50	45	41	59	50	32	43	38	34	47	41
AVG top ht Kft			5.8			5.5			5.5			6.4			5.8
AVG thickness Kft			.47			.46			.51			.42			.51
AVG trap freq GHz			.31			.34			.25			.36			.27
AVG lyr grd -N/Kft			62			64			62			61			62
AVG lyr base Kft			5.5			5.2			5.1			6.1			5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	13	14	16	14	15	21	19	20	11	9	10	11	9	10
10 to 20 Feet	8	11	10	10	11	11	11	15	13	7	10	8	6	8	7
20 to 30 Feet	11	16	13	13	17	15	13	19	16	9	14	12	9	13	11
30 to 40 Feet	12	17	15	13	18	16	13	19	16	10	16	13	11	16	14
40 to 50 Feet	12	16	14	13	16	15	11	13	12	12	16	14	13	17	15
50 to 60 Feet	10	12	11	11	11	11	8	7	7	10	14	12	12	15	14
60 to 70 Feet	7	6	7	7	5	6	4	2	3	7	8	8	10	10	10
70 to 80 Feet	5	3	4	4	2	3	2	1	2	5	4	4	7	5	6
80 to 90 Feet	3	1	2	2	1	2	1	0	1	3	2	3	4	2	3
90 to 100 Feet	2	1	1	1	1	1	1	0	1	2	1	2	3	1	2
above 100 Feet	15	3	9	10	2	6	14	3	8	23	6	15	13	3	8
Mean height Feet	58	40	49	48	36	42	50	32	41	73	46	59	60	45	52

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			6			4			4			3
% occur 2+ EL dcts			8			6			12			10			6
AVG station N			357			343			356			369			359
AVG station -N/Kft			17			15			17			18			17
AVG sfc wind Kts	16	16	16	20	19	20	14	13	14	13	12	13	19	18	19

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 00 N 175 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91066 28 13 N 177 22 W
Radiosonde station height: 0 Feet
Surface obs source: MS126 35 00 N 175 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	2	2	2	2	2	2	2	2	4	2	3	2	1	2
1 GHz	22	9	16	17	8	12	21	9	15	35	13	23	19	7	13
3 GHz	29	13	21	22	12	17	25	11	18	41	18	29	27	13	20
6 GHz	49	35	42	44	32	38	38	22	30	59	42	51	56	44	50
10 GHz	71	63	68	68	65	67	59	50	55	77	71	74	79	75	77
20 GHz	80	79	79	78	80	79	71	67	69	84	82	83	87	85	86

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	9	12	16	11	14	13	8	11	21	10	16	12	8	10
AVG thickness Kft			.39			.28			.40			.46			.43
AVG trap freq GHz			.56			.78			.43			.42			.63
AVG lyr grd -N/Kft			108			107			95			117			111

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	37	50	43	39	50	45	41	59	50	32	43	38	34	47	41
AVG top ht Kft			5.8			5.5			5.5			6.4			5.8
AVG thickness Kft			.47			.46			.51			.42			.51
AVG trap freq GHz			.31			.34			.25			.36			.27
AVG lyr grd -N/Kft			62			64			62			61			62
AVG lyr base Kft			5.5			5.2			5.1			6.1			5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	13	14	15	13	14	23	21	22	13	10	12	10	8	9
10 to 20 Feet	8	10	9	10	10	10	11	14	13	6	10	8	6	7	6
20 to 30 Feet	11	14	12	11	16	14	13	18	16	9	12	11	8	11	10
30 to 40 Feet	12	17	15	14	19	16	14	18	16	11	16	13	11	14	13
40 to 50 Feet	12	16	14	14	18	16	10	13	12	11	17	14	14	18	16
50 to 60 Feet	11	12	11	12	12	12	7	7	7	10	13	11	13	16	15
60 to 70 Feet	8	7	7	8	6	7	4	3	4	7	8	7	11	11	11
70 to 80 Feet	5	4	4	4	3	4	2	2	2	5	5	5	7	6	7
80 to 90 Feet	3	2	2	2	1	1	1	0	1	3	3	3	4	3	3
90 to 100 Feet	2	1	1	1	1	1	1	0	1	2	1	2	3	1	2
above 100 Feet	14	4	9	8	2	5	13	3	8	22	6	14	12	3	8
Mean height Feet	56	41	48	48	38	43	47	32	40	69	47	58	59	46	53

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			6			4			4			3
% occur 2+ EL dcts			8			6			12			10			5
AVG station N			357			343			356			369			359
AVG station -N/Kft			17			15			17			18			17
AVG sfc wind kts	17	16	16	21	20	20	14	13	14	13	12	12	19	18	19

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 34 00 N 164 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YY 34 00 N 164 00 E
Radiosonde station height: 39 Feet
Surface obs source: MS128 35 00 N 165 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	1	3	2	1	2	3	0	2	9	1	5	3	1	2
1 GHz	26	6	16	14	5	10	23	3	13	47	9	28	21	5	13
3 GHz	34	9	22	21	9	15	29	4	17	55	13	34	30	11	21
6 GHz	57	34	46	50	38	44	44	15	29	69	35	52	63	50	56
10 GHz	77	67	72	80	77	79	64	47	55	80	63	71	84	81	82
20 GHz	84	79	82	90	88	89	74	66	70	84	75	80	90	89	90

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	25	6	15	19	9	14	22	2	12	40	6	23	18	5	12
AVG thickness Kft			.39			.27			.31			.57			.42
AVG trap freq GHz			.66			1.1			.73			.34			.50
AVG lyr grd -N/Kft			89			105			91			70			91

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	17	26	22	9	14	12	21	32	27	22	34	28	16	24	20
AVG top ht Kft			5.3			5.9			4.6			5.1			5.5
AVG thickness Kft			.44			.29			.48			.54			.43
AVG trap freq GHz			.40			.61			.32			.32			.34
AVG lyr grd -N/Kft			64			63			68			61			65
AVG lyr base Kft			5.0			5.6			4.3			4.8			5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	14	12	13	7	6	7	24	21	22	20	16	18	7	6	7
10 to 20 Feet	6	9	8	5	6	6	10	14	12	7	11	9	4	5	5
20 to 30 Feet	9	13	11	11	12	12	12	19	16	8	13	10	7	9	8
30 to 40 Feet	12	17	14	16	20	18	13	19	16	8	14	11	10	14	12
40 to 50 Feet	13	17	15	19	22	21	11	13	12	9	15	12	14	18	16
50 to 60 Feet	12	14	13	17	18	17	8	7	8	9	13	11	16	19	17
60 to 70 Feet	9	8	8	10	9	9	5	3	4	7	7	7	13	13	13
70 to 80 Feet	6	4	5	6	4	5	3	1	2	5	3	4	9	8	9
80 to 90 Feet	3	2	2	2	1	2	2	0	1	3	2	3	5	4	4
90 to 100 Feet	2	1	1	1	0	1	1	0	1	2	1	2	3	1	2
above 100 Feet	13	2	8	5	1	3	12	2	7	23	5	14	10	2	6
Mean height Feet	56	41	48	50	42	46	47	30	39	68	41	55	60	49	54

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			2			3			5			2
% occur 2+ EL dcts			3			0			4			5			1
AVG station N			349			328			345			379			343
AVG station -N/Kft			17			14			16			21			15
AVG sfc wind Kts	18	17	17	22	21	22	16	15	16	13	13	13	20	19	20

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 00 N 155 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YY 34 00 N 164 00 E
Radiosonde station height: 39 Feet
Surface obs source: MS129 35 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	1	3	2	1	2	3	0	2	9	1	5	3	1	2
1 GHz	26	6	16	13	5	9	24	3	14	49	9	29	20	5	12
3 GHz	34	9	22	20	8	14	31	4	17	57	13	35	30	11	20
6 GHz	60	38	49	53	41	47	47	17	32	72	38	55	66	54	60
10 GHz	80	71	75	85	82	83	66	50	58	83	67	75	87	84	85
20 GHz	87	82	85	93	92	92	76	66	71	87	80	83	93	92	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	25	6	15	19	9	14	22	2	12	40	6	23	18	5	12
AVG thickness Kft			.39			.27			.31			.57			.42
AVG trap freq GHz			.66			1.1			.73			.34			.50
AVG lyr grd -N/Kft			89			105			91			70			91

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	17	26	22	9	14	12	21	32	27	22	34	28	16	24	20
AVG top ht Kft			5.3			5.9			4.6			5.1			5.5
AVG thickness Kft			.44			.29			.48			.54			.43
AVG trap freq GHz			.40			.61			.32			.32			.34
AVG lyr grd -N/Kft			64			63			68			61			65
AVG lyr base Kft			5.0			5.6			4.3			4.8			5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	12	10	11	5	3	4	22	20	21	16	13	15	6	5	5
10 to 20 Feet	5	8	7	4	4	4	9	13	11	6	9	7	4	4	4
20 to 30 Feet	9	12	10	9	11	10	12	17	14	7	13	10	7	8	7
30 to 40 Feet	11	17	14	15	19	17	12	19	15	8	16	12	10	13	11
40 to 50 Feet	14	18	16	21	20	23	11	15	13	9	15	12	15	19	17
50 to 60 Feet	14	16	15	20	21	20	9	9	9	9	13	11	17	20	18
60 to 70 Feet	10	9	9	11	10	10	5	3	4	7	8	8	15	16	16
70 to 80 Feet	6	5	6	6	4	5	3	1	2	6	5	5	10	9	10
80 to 90 Feet	3	2	3	3	1	2	2	1	1	4	2	3	6	3	5
90 to 100 Feet	2	1	1	1	0	1	1	0	1	2	1	2	3	1	2
above 100 Feet	13	2	8	4	1	2	13	2	8	26	5	16	9	2	5
Mean height Feet	59	43	51	50	44	47	58	32	41	75	44	59	60	51	55

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			2			3			5			2
% occur 2+ EL dcts			3			0			4			5			1
AVG station N			349			328			345			379			343
AVG station -N/Kft			17			14			16			21			15
AVG sfc wind Kts	18	17	18	22	21	22	16	15	16	14	13	13	20	19	19

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 39 43 N 140 06 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47582 39 43 N 140 06 E
Radiosonde station height: 30 Feet
Surface obs source: MS130 35 00 N 145 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	14	4	9	4	1	3	15	6	10	26	7	17	10	3	6
3 GHz	20	9	14	8	4	6	19	8	13	34	12	23	21	11	16
6 GHz	52	42	47	49	43	46	39	26	32	56	40	48	66	59	63
10 GHz	77	74	75	83	83	83	62	57	60	73	69	71	89	87	88
20 GHz	85	85	85	92	93	92	72	72	72	80	80	80	95	94	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	1	1	1	1	1	1	2	2	3	2	3	1	0	1
AVG thickness Kft			.35			.22			.30			.33			.24
AVG trap freq GHz			1.1			1.4			1.0			1.0			1.0
AVG lyr grd -N/Kft			165			183			163			163			151

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	5	5	1	1	1	3	5	4	12	13	13	1	2	2
AVG top ht Kft			5.3			6.1			3.7			5.0			6.2
AVG thickness Kft			.28			.17			.32			.42			.21
AVG trap freq GHz			1.4			2.6			1.0			.50			1.4
AVG lyr grd -N/Kft			60			65			55			57			61
AVG lyr base Kft			5.1			6.0			3.5			4.7			6.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	11	9	10	4	3	3	20	17	19	16	12	14	3	3	3
10 to 20 Feet	5	6	6	4	4	4	8	11	9	5	7	6	2	3	3
20 to 30 Feet	8	11	9	9	10	9	10	15	13	7	11	9	6	7	6
30 to 40 Feet	11	15	13	15	17	16	11	17	14	8	14	11	10	11	10
40 to 50 Feet	14	18	16	20	24	22	12	15	14	9	15	12	14	17	15
50 to 60 Feet	14	17	15	21	22	21	10	11	10	8	14	12	17	20	19
60 to 70 Feet	11	11	11	13	12	12	6	5	5	8	9	8	16	18	17
70 to 80 Feet	7	6	7	7	5	6	4	2	3	6	5	6	12	11	12
80 to 90 Feet	4	3	3	3	2	2	2	1	2	5	3	4	7	5	6
90 to 100 Feet	2	1	2	1	1	1	1	1	1	3	1	2	4	3	3
above 100 Feet	13	4	8	4	1	2	15	5	10	25	6	16	18	3	6
Mean Height Feet	60	47	54	52	46	49	54	39	47	73	48	61	63	55	59

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			320			312			329			358			320
AVG station -N/Kft			13			11			13			15			12
AVG sfc wind kts	17	17	17	21	21	21	15	15	15	14	13	14	19	18	19

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 38 16 N 140 54 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47598 38 16 N 140 54 E
Radiosonde station height: 125 Feet
Surface obs source: MS130 35 00 N 145 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	14	4	9	4	1	3	15	5	10	26	7	16	10	3	7
3 GHz	20	9	14	8	4	6	19	8	13	33	12	22	21	11	16
6 GHz	52	42	47	49	43	46	39	25	32	56	40	48	66	60	63
10 GHz	77	74	75	83	83	83	62	57	59	73	69	71	89	87	88
20 GHz	85	85	85	92	93	92	72	72	72	80	80	80	95	94	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1
AVG thickness Kft			.24			.16			.33			.25			.21
AVG trap freq GHz			1.3			1.8			.77			1.3			1.5
AVG lyr grd -N/Kft			214			231			172			217			237

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	4	3	9	8	8	3	7	5	8	6	7	2	1	2
AVG top ht Kft			4.6			2.9			5.0			5.8			5.0
AVG thickness Kft			.30			.08			.32			.48			.31
AVG trap freq GHz			1.8			4.9			.70			.43			1.2
AVG lyr grd -N/Kft			60			69			55			55			61
AVG lyr base Kft			4.4			2.9			4.7			5.4			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	11	9	10	4	3	3	20	17	19	16	12	14	3	3	3
10 to 20 Feet	5	6	6	4	4	4	8	11	9	5	7	6	2	3	3
20 to 30 Feet	8	11	9	9	10	9	10	15	13	7	11	9	6	7	6
30 to 40 Feet	11	15	13	15	17	16	11	17	14	8	14	11	10	11	10
40 to 50 Feet	14	18	16	20	24	22	12	15	14	9	15	12	14	17	15
50 to 60 Feet	14	17	15	21	22	21	10	11	10	9	14	12	17	20	19
60 to 70 Feet	11	11	11	13	12	12	6	5	5	8	9	8	16	18	17
70 to 80 Feet	7	6	7	7	5	6	4	2	3	6	5	6	12	11	12
80 to 90 Feet	4	3	3	3	2	2	2	1	2	5	3	4	7	5	6
90 to 100 Feet	2	1	2	1	1	1	1	1	1	3	1	2	4	3	3
above 100 Feet	13	4	8	4	1	2	15	5	10	25	6	16	10	3	6
Mean height Feet	60	47	54	52	46	49	54	39	47	73	48	61	63	55	59

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			330			309			329			362			318
AVG station -N/Kft			12			11			12			14			12
AVG sfc wind Kts	17	17	17	21	21	21	16	15	15	14	13	14	19	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 33 34 N 130 22 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47887 33 34 N 130 22 E
Radiosonde station height: 10 Feet
Surface obs source: MS131 35 00 N 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	17	7	12	5	3	4	21	10	16	29	11	20	12	5	9
3 GHz	25	13	19	10	6	8	27	14	20	37	17	27	25	16	21
6 GHz	59	49	54	53	49	51	48	35	41	62	47	55	72	66	69
10 GHz	81	78	80	84	82	83	69	64	67	80	75	77	92	90	91
20 GHz	89	88	88	93	93	93	79	78	78	87	85	86	96	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	1	0	1	1	1	3	2	2	2	2	1	1	1
AVG thickness Kft			.37			.28			.32			.42			.47
AVG trap freq GHz			.82			.65			.72			1.4			.52
AVG lyr grd -N/Kft			134			104			134			195			104

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	8	8	1	1	1	11	11	11	13	11	12	8	8	8
AVG top ht Kft			4.6			3.8			4.4			5.6			4.6
AVG thickness Kft			.34			.25			.38			.49			.23
AVG trap freq GHz			1.1			2.0			.58			.42			1.6
AVG lyr grd -N/Kft			58			65			58			55			53
AVG lyr base Kft			4.3			3.7			4.1			5.2			4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	6	3	2	3	15	13	14	9	8	8	2	1	1
10 to 20 Feet	4	6	5	4	5	4	7	10	8	4	7	6	2	3	2
20 to 30 Feet	7	10	9	9	11	10	10	14	12	7	11	9	4	6	5
30 to 40 Feet	10	13	12	14	15	15	10	15	13	8	13	11	8	10	9
40 to 50 Feet	13	16	14	17	19	18	11	15	13	9	15	12	12	14	13
50 to 60 Feet	14	16	15	20	21	20	9	10	10	10	14	12	16	17	17
60 to 70 Feet	12	13	12	15	15	15	7	7	7	9	10	10	17	19	18
70 to 80 Feet	9	8	8	8	7	7	5	4	5	7	6	7	14	14	14
80 to 90 Feet	5	4	4	3	2	3	3	2	3	5	4	4	8	7	8
90 to 100 Feet	3	2	2	1	1	1	2	1	2	3	2	2	5	4	4
above 100 Feet	16	6	11	5	2	4	21	8	15	28	10	19	12	5	8
Mean height Feet	68	53	61	55	50	52	66	47	57	82	55	69	70	60	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			1			1
AVG station N			337			315			337			368			326
AVG station -N/Kft			13			11			14			15			12
AVG sfc wind Kts	15	14	15	18	17	17	14	14	14	13	12	12	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 33 07 N 139 46 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47678 33 07 N 139 46 E
Radiosonde station height: 502 Feet
Surface obs source: MS131 35 00 N 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	17	7	12	5	3	4	22	9	15	29	10	20	12	5	8
3 GHz	25	13	19	10	6	8	27	13	20	37	16	26	25	16	21
6 GHz	59	49	54	53	48	51	48	34	41	62	46	54	72	66	69
10 GHz	81	78	80	84	82	83	70	64	67	80	74	77	92	90	91
20 GHz	89	88	88	93	93	93	79	78	78	87	85	86	96	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	1	1	2	2	2	2	0	1	0	1	1
AVG thickness Kft			.35			.22			.40			.38			.41
AVG trap freq GHz			1.2			2.0			.78			1.1			.82
AVG lyr grd -N/Kft			135			176			110			158			98

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	10	13	11	4	5	5	14	18	16	13	18	16	7	9	8
AVG top ht Kft			4.2			4.4			4.0			4.1			4.5
AVG thickness Kft			.38			.24			.54			.45			.30
AVG trap freq GHz			.71			1.3			.29			.46			.82
AVG lyr grd -N/Kft			55			53			57			53			56
AVG lyr base Kft			3.9			4.2			3.6			3.7			4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	6	3	2	3	15	13	14	9	8	8	2	1	1
10 to 20 Feet	4	6	5	4	5	4	7	10	8	4	7	6	2	3	3
20 to 30 Feet	7	10	9	9	11	10	10	14	12	7	11	9	4	6	5
30 to 40 Feet	10	13	12	14	15	15	10	15	13	8	13	11	8	10	9
40 to 50 Feet	13	16	14	17	19	18	11	15	13	9	15	12	12	14	13
50 to 60 Feet	14	16	15	20	21	20	9	10	10	10	14	12	16	17	17
60 to 70 Feet	12	13	12	15	15	15	7	7	7	9	10	10	17	19	18
70 to 80 Feet	9	8	8	8	7	7	5	4	5	7	6	7	14	14	14
80 to 90 Feet	5	4	4	3	2	3	3	2	3	5	4	4	8	7	8
90 to 100 Feet	3	2	2	1	1	1	2	1	2	3	2	2	5	4	4
above 100 Feet	16	6	11	5	2	4	21	8	15	28	10	19	12	5	8
Mean height Feet	68	53	61	55	50	52	66	47	57	82	55	69	70	60	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			340			313			342			376			330
AVG station -N/Kft			15			12			16			18			13
AVG sfc wind Kts	15	14	15	18	17	17	14	14	14	13	12	12	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 34 43 N 137 40 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47681 34 43 N 137 40 E
Radiosonde station height: 154 Feet
Surface obs source: MS131 35 00 N 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
1 GHz	17	7	12	5	2	4	21	9	15	30	12	21	12	5	8
3 GHz	25	13	19	10	6	8	27	13	20	38	18	28	25	16	21
6 GHz	59	49	54	53	48	50	48	34	41	63	48	56	72	66	69
10 GHz	82	78	80	84	82	83	69	64	67	81	75	78	92	90	91
20 GHz	89	88	88	93	92	93	79	78	78	87	86	87	96	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	0	0	0	2	2	2	6	5	6	0	1	1
AVG thickness Kft			.25			.13			.30			.16			.39
AVG trap freq GHz			2.6			6.3			2.1			1.7			.48
AVG lyr grd -N/Kft			175			*			208			190			127

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	5	5	1	1	1	8	8	8	6	8	7	2	4	3
AVG top ht Kft			4.8			3.5			4.8			5.6			5.4
AVG thickness Kft			.36			.32			.33			.49			.29
AVG trap freq GHz			.71			.73			.85			.47			.80
AVG lyr grd -N/Kft			60			72			55			55			56
AVG lyr base Kft			4.6			3.3			4.5			5.2			5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	6	3	2	3	15	13	14	9	8	8	2	1	1
10 to 20 Feet	4	5	5	4	5	4	7	10	8	4	7	6	2	3	2
20 to 30 Feet	7	10	9	9	11	10	10	14	12	7	11	9	4	6	5
30 to 40 Feet	10	13	12	14	15	15	10	15	13	8	13	11	8	10	9
40 to 50 Feet	13	16	14	17	19	18	11	15	13	9	15	12	12	14	13
50 to 60 Feet	14	16	15	20	21	20	9	10	10	10	14	12	16	17	17
60 to 70 Feet	12	13	12	15	15	15	7	7	7	9	10	10	17	19	18
70 to 80 Feet	9	8	8	8	7	7	5	4	5	7	6	7	14	14	14
80 to 90 Feet	5	4	4	3	2	3	3	2	3	5	4	4	8	7	8
90 to 100 Feet	3	2	2	1	1	1	2	1	2	3	2	2	5	4	4
above 100 Feet	16	6	11	5	2	4	21	8	15	28	10	19	12	5	8
Mean height Feet	68	53	61	55	50	52	66	47	57	82	55	69	70	60	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			349			312			343			377			327
AVG station -N/Kft			14			12			14			17			13
AVG sfc wind Kts	15	14	15	18	17	17	14	14	14	13	12	12	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 31 37 N 130 34 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47827 31 37 N 130 34 E
Radiosonde station height: 925 Feet
Surface obs source: MS131 35 00 N 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
1 GHz	17	7	12	3	2	4	22	10	16	29	12	21	12	5	8
3 GHz	25	13	19	10	6	8	28	14	21	37	18	27	25	16	20
6 GHz	59	49	54	53	48	50	49	36	42	63	48	55	72	66	69
10 GHz	82	78	80	84	82	83	70	65	67	80	75	78	92	90	91
20 GHz	89	88	88	93	92	93	79	78	79	87	86	86	96	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	0	0	0	4	5	5	2	3	3	1	0	1
AVG thickness Kft			.35			.17			.40			.61			.22
AVG trap freq GHz			2.7			5.4			2.0			.50			2.3
AVG lyr grd -N/Kft			101			109			97			69			129

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	9	9	2	3	3	13	13	13	12	11	12	9	7	8
AVG top ht Kft			4.1			3.8			4.1			4.7			3.8
AVG thickness Kft			.35			.27			.33			.46			.31
AVG trap freq GHz			.77			1.2			.78			.42			.78
AVG lyr grd -N/Kft			56			57			55			56			56
AVG lyr base Kft			3.8			3.6			3.9			4.3			3.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	6	3	2	3	15	13	14	9	8	8	2	1	1
10 to 20 Feet	4	6	5	4	5	4	7	10	8	4	7	6	2	3	2
20 to 30 Feet	7	10	9	9	11	10	10	14	12	7	11	9	4	6	5
30 to 40 Feet	10	13	12	14	15	15	10	15	13	8	13	11	8	10	9
40 to 50 Feet	13	16	14	17	19	18	11	15	13	9	15	12	12	14	13
50 to 60 Feet	14	16	15	20	21	20	9	10	10	10	14	12	16	17	17
60 to 70 Feet	12	13	12	15	15	15	7	7	7	9	10	10	17	19	18
70 to 80 Feet	9	8	8	8	7	7	5	4	5	7	6	7	14	14	14
80 to 90 Feet	5	4	4	3	2	3	3	2	3	5	4	4	8	7	8
90 to 100 Feet	3	2	2	1	1	1	2	1	2	3	2	2	5	4	4
above 100 Feet	16	6	11	5	2	4	21	8	15	28	10	19	12	5	8
Mean height Feet	68	53	61	55	50	52	66	47	57	82	55	69	70	60	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			1			1			0
AVG station N			333			309			336			365			329
AVG station -N/Kft			14			12			15			17			13
AVG sfc wind Kts	15	14	15	18	17	17	14	14	14	13	12	12	16	15	16

IREPS REV 2.1 -HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 33 27 N 135 46 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47778 33 27 N 135 46 E
Radiosonde station height: 240 Feet
Surface obs source: MS131 35 00 N 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
1 GHz	17	7	12	5	3	4	22	10	16	30	11	20	12	5	9
3 GHz	25	14	19	10	7	8	27	15	21	38	17	27	26	16	21
6 GHz	59	49	54	53	49	51	48	36	42	60	47	55	72	66	69
10 GHz	82	78	80	84	82	83	70	65	67	80	75	78	92	90	91
20 GHz	89	88	88	93	93	93	79	78	79	87	85	86	96	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	1	2	2	2	4	3	4	2	3	2	1	2
AVG thickness Kft			.22			.19			.28			.14			.28
AVG trap freq GHz			1.3			1.6			.68			2.1			.95
AVG lyr grd -N/Kft			122			102			115			131			141

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	7	7	2	1	2	9	13	11	7	9	8	5	6	6
AVG top ht Kft			4.8			4.0			4.6			5.5			5.0
AVG thickness Kft			.35			.24			.39			.47			.29
AVG trap freq GHz			.79			1.0			.67			.42			1.1
AVG lyr grd -N/Kft			61			77			54			56			56
AVG lyr base Kft			4.5			3.8			4.3			5.1			4.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	6	3	2	3	15	13	14	9	8	8	2	1	1
10 to 20 Feet	4	6	5	4	5	4	7	10	8	4	7	6	2	3	2
20 to 30 Feet	7	10	9	9	11	10	10	14	12	7	11	9	4	6	5
30 to 40 Feet	10	13	12	14	15	15	10	15	13	8	13	11	8	10	9
40 to 50 Feet	13	16	14	17	19	18	11	15	13	9	15	12	12	14	13
50 to 60 Feet	14	16	15	20	21	20	9	10	10	10	14	12	16	17	17
60 to 70 Feet	12	13	12	15	15	15	7	7	7	9	10	10	17	19	18
70 to 80 Feet	9	8	8	8	7	7	5	4	5	7	6	7	14	14	14
80 to 90 Feet	5	4	4	3	2	3	3	2	3	5	4	4	8	7	8
90 to 100 Feet	3	2	2	1	1	1	2	1	2	3	2	2	5	4	4
above 100 Feet	16	6	11	5	2	4	21	8	15	28	10	19	12	5	9
Mean height Feet	68	53	61	55	50	52	66	47	57	82	55	69	70	60	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			1			0			0
AVG station N			339			309			345			379			323
AVG station -N/Kft			14			11			15			17			12
AVG sfc wind Kts	15	14	15	18	17	17	14	14	14	13	12	12	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 34 07 N 134 36 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47881 34 07 N 134 36 E
Radiosonde station height: 7 Feet
Surface obs source: MS131 35 00 N 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	*	*	*	0	0	0	1	0	0
1 GHz	21	7	14	*	*	*	*	*	*	29	10	19	13	5	9
3 GHz	31	16	24	*	*	*	*	*	*	37	16	26	26	16	21
6 GHz	67	56	62	*	*	*	*	*	*	62	46	54	73	66	69
10 GHz	86	82	84	*	*	*	*	*	*	80	74	77	92	90	91
20 GHz	92	90	91	*	*	*	*	*	*	87	85	86	96	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	0	0	0	0	0	0	0	1	0	1	2	0	1
AVG thickness Kft			.43			*			*			.20			.66
AVG trap freq GHz			.24			*			*			.35			.14
AVG lyr grd -N/Kft			698			*			*			999			335

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	0	3	0	0	0	9	0	5	8	0	4	7	0	4
AVG top ht Kft			5.5			*			4.6			8.1			3.9
AVG thickness Kft			.43			*			.35			.51			.42
AVG trap freq GHz			.52			*			.73			.31			.51
AVG lyr grd -N/Kft			59			*			55			65			57
AVG lyr base Kft			5.2			*			4.3			7.8			3.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	6	3	2	3	15	13	14	9	8	8	2	1	1
10 to 20 Feet	4	6	5	4	5	4	7	10	8	4	7	6	2	3	2
20 to 30 Feet	7	10	9	9	11	10	10	14	12	7	11	9	4	6	5
30 to 40 Feet	10	13	12	14	15	15	10	15	13	8	13	11	8	10	9
40 to 50 Feet	13	16	14	17	19	18	11	15	13	9	15	12	12	14	13
50 to 60 Feet	14	16	15	20	21	20	9	10	10	10	14	12	16	17	17
60 to 70 Feet	12	13	12	15	15	15	7	7	7	9	10	10	17	19	18
70 to 80 Feet	9	8	8	8	7	7	5	4	5	7	6	7	14	14	14
80 to 90 Feet	5	4	4	3	2	3	3	2	3	5	4	4	8	7	8
90 to 100 Feet	3	2	2	1	1	1	2	1	2	3	2	2	5	4	4
above 100 Feet	16	6	11	5	2	4	21	8	15	28	10	19	12	5	8
Mean height Feet	68	53	61	55	50	52	66	47	57	82	55	69	70	60	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			341			315			344			376			328
AVG station -N/Kft			13			11			14			16			12
AVG sfc wind Kts	15	14	15	18	17	17	14	14	14	13	12	12	16	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 37 22 N 136 54 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47600 37 22 N 136 54 E
Rad.osonde station height: 16 Feet
Surface obs source: MS131 35 00 N 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	17	7	12	5	3	4	21	9	15	30	11	20	12	5	9
3 GHz	25	13	19	10	6	8	27	14	20	36	17	27	25	16	21
6 GHz	59	49	54	53	48	51	48	35	41	63	47	55	72	66	69
10 GHz	81	78	80	84	82	83	69	64	67	80	75	78	92	90	91
20 GHz	89	88	88	93	93	93	79	78	78	87	85	86	96	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	1	1	1	1	3	2	4	2	3	1	1	1
AVG thickness Kft			.37			.28			.26			.32			.61
AVG trap freq GHz			1.2			1.6			1.4			1.1			.49
AVG lyr grd -N/Kft			123			111			139			157			84

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	6	5	1	0	1	4	5	5	9	15	12	3	3	3
AVG top ht Kft			5.3			8.3			2.9			4.9			5.0
AVG thickness Kft			.39			.39			.27			.46			.45
AVG trap freq GHz			.78			.30			1.6			.64			.57
AVG lyr grd -N/Kft			62			74			57			56			60
AVG lyr base Kft			5.0			8.1			2.6			4.5			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	6	3	2	3	15	13	14	9	8	8	2	1	1
10 to 20 Feet	4	6	5	4	5	4	7	10	8	4	7	6	2	3	2
20 to 30 Feet	7	10	9	9	11	10	10	14	12	7	11	9	4	6	5
30 to 40 Feet	10	13	12	14	15	15	10	15	13	8	13	11	8	10	9
40 to 50 Feet	13	16	14	17	19	18	11	15	13	9	15	12	12	14	13
50 to 60 Feet	14	16	15	20	21	20	9	10	10	10	14	12	15	17	17
60 to 70 Feet	12	13	12	15	15	15	7	7	7	9	10	10	17	19	18
70 to 80 Feet	9	8	8	8	7	7	5	4	5	7	6	7	14	14	14
80 to 90 Feet	5	4	4	3	2	3	3	2	3	5	4	4	8	7	8
90 to 100 Feet	3	2	2	1	1	1	2	1	2	3	2	2	5	4	4
above 100 Feet	16	6	11	5	2	4	21	8	15	28	10	19	12	5	8
Mean height Feet	68	53	61	55	50	52	66	47	57	82	55	69	70	60	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SE dcts			0			0			0			0			0
% occur 2+ EL dcts			1			0			0			2			0
AVG station N			338			316			335			371			328
AVG station -N/Kft			14			12			15			16			13
AVG sfc wind Kts	15	14	15	18	17	17	14	14	14	13	12	12	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 25 N 133 21 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47744 35 25 N 133 21 E
Radiosonde station height: 23 Feet
Surface obs source: MS131 35 00 N 135 09 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
1 GHz	17	7	12	5	2	4	21	9	15	30	11	21	12	5	8
3 GHz	25	13	19	10	6	8	27	13	20	38	17	28	25	16	20
6 GHz	59	49	54	53	48	50	48	34	41	63	47	55	72	66	69
10 GHz	82	78	80	84	82	83	70	64	67	81	75	78	92	90	91
20 GHz	89	88	88	93	92	93	79	78	78	87	85	86	96	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	1	2	0	0	0	2	2	2	5	2	4	0	1	1
AVG thickness Kft			.30			.45			.29			.23			.24
AVG trap freq GHz			1.5			.84			1.1			.93			3.1
AVG lyr grd -N/Kft			177			245			104			178			183

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	8	6	2	2	2	4	7	5	10	14	12	5	7	6
AVG top ht Kft			4.4			3.3			3.9			5.5			4.9
AVG thickness Kft			.36			.33			.41			.45			.23
AVG trap freq GHz			.77			.80			.68			.44			1.1
AVG lyr grd -N/Kft			56			60			57			53			53
AVG lyr base Kft			4.1			3.0			3.5			5.2			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUPRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	6	3	2	3	15	13	14	9	8	8	2	1	1
10 to 20 Feet	4	6	5	4	5	4	7	10	8	4	7	6	2	3	2
20 to 30 Feet	7	10	9	9	11	10	13	14	12	7	11	9	4	6	5
30 to 40 Feet	10	13	12	14	15	15	10	15	13	8	13	11	8	10	9
40 to 50 Feet	13	16	14	17	19	18	11	15	13	9	15	12	12	14	13
50 to 60 Feet	14	16	15	20	21	20	9	10	10	10	14	12	16	17	17
60 to 70 Feet	12	13	12	15	15	15	7	7	7	9	10	10	17	19	18
70 to 80 Feet	9	8	8	8	7	7	5	4	5	7	6	7	14	14	14
80 to 90 Feet	5	4	4	3	2	3	3	2	3	5	4	4	8	7	8
90 to 100 Feet	3	2	2	1	1	1	2	1	2	3	2	2	5	4	4
above 100 Feet	16	6	11	5	2	4	21	8	15	28	10	19	12	5	8
Mean height Feet	68	53	61	55	50	52	66	47	57	82	55	69	78	60	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			338			318			337			370			327
AVG station -N/Kft			14			12			14			16			12
AVG sfc wind Kts	15	14	15	18	17	17	14	14	14	13	12	12	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 33 12 N 126 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47187 33 12 N 126 13 E
Radiosonde station height: 43 Feet
Surface obs source: HS132 35 00 N 125 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	3	3	1	1	1	4	5	5	6	4	5	2	3	2
1 GHz	32	24	28	13	9	11	30	27	29	47	27	37	37	34	36
3 GHz	39	31	35	18	12	15	36	34	35	56	35	45	46	42	44
6 GHz	60	53	56	47	36	42	49	46	47	72	55	64	75	72	73
10 GHz	79	75	77	80	74	77	65	64	64	83	75	79	89	89	89
20 GHz	86	85	85	90	87	89	73	74	74	87	83	85	94	94	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	20	20	12	12	12	23	29	26	33	21	27	14	18	16
AVG thickness Kft			.39			.28			.47			.43			.40
AVG trap freq GHz			.70			1.3			.46			.43			.68
AVG lyr grd -N/Kft			123			120			101			102			170

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	46	42	44	36	39	38	42	45	44	55	47	51	51	35	43
AVG top ht Kft			4.6			4.3			5.3			6.3			4.4
AVG thickness Kft			.38			.28			.44			.42			.39
AVG trap freq GHz			.41			.62			.32			.36			.32
AVG lyr grd -N/Kft			66			63			65			62			74
AVG lyr base Kft			4.3			4.1			3.0			6.0			4.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	12	11	12	5	5	5	25	23	24	14	14	14	4	3	4
10 to 20 Feet	6	9	7	6	9	8	10	14	12	5	8	6	2	4	3
20 to 30 Feet	8	11	10	11	15	13	10	15	12	7	10	8	5	6	6
30 to 40 Feet	11	13	12	16	20	18	11	14	12	7	12	9	8	8	8
40 to 50 Feet	12	14	13	20	21	20	9	11	10	9	12	10	9	12	10
50 to 60 Feet	11	12	11	18	16	17	7	7	7	8	11	9	11	13	12
60 to 70 Feet	8	8	8	8	6	7	4	4	4	7	9	8	12	12	12
70 to 80 Feet	5	5	5	4	3	4	3	2	2	6	5	6	8	9	9
80 to 90 Feet	3	3	3	2	1	1	2	2	2	4	4	4	4	4	4
90 to 100 Feet	2	1	2	1	0	1	2	1	1	3	2	3	3	2	3
above 100 Feet	22	13	18	8	4	6	17	9	13	31	14	23	32	26	29
Mean height Feet	71	57	64	53	44	49	54	41	47	83	59	71	93	86	89

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			7			4			8			12			3
% occur 2+ EL dcts			11			4			15			20			6
AVG station N			337			314			340			371			321
AVG station -N/Kft			16			12			18			20			13
AVG sfc wind Kts	13	13	13	16	15	15	13	12	12	12	12	12	13	12	12

IREPS REV 2.1 HISTOPICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 36 01 N 129 22 E (#) INDICATES INSUFFICIENT DATA
Radiosonde source : 47138 36 01 N 129 22 E
Radiosonde station height: 52 Feet
Surface obs source: MS132 35 00 N 125 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	0	0	0	1	1	1	1	2	2	1	1	1
1 GHz	24	17	21	9	4	7	21	12	16	34	20	27	34	30	32
3 GHz	30	22	26	12	6	9	25	16	21	42	28	35	41	38	39
6 GHz	54	45	49	42	31	37	39	29	34	62	51	56	72	70	71
10 GHz	75	71	73	78	71	74	58	53	55	76	72	74	88	88	88
20 GHz	83	82	82	89	86	87	68	66	67	83	81	82	93	93	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	8	7	2	3	3	8	7	8	9	11	10	5	10	8
AVG thickness Kft			.24			.18			.17			.31			.28
AVG trap freq GHz			1.3			3.1			.85			.58			.77
AVG lyr grd -N/Kft			247			207			292			153			337

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	27	32	29	13	15	14	34	27	31	43	55	49	19	29	24
AVG top ht Kft			5.1			5.5			3.8			6.2			4.3
AVG thickness Kft			.38			.22			.48			.55			.28
AVG trap freq GHz			.59			.94			.29			.24			.89
AVG lyr grd -N/Kft			64			69			62			64			63
AVG lyr base Kft			4.8			5.4			3.5			5.8			4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	12	11	12	5	5	5	25	23	24	14	14	14	4	3	4
10 to 20 Feet	6	9	7	6	9	8	10	14	12	5	8	6	2	4	3
20 to 30 Feet	8	11	10	11	15	13	10	15	12	7	10	8	5	6	5
30 to 40 Feet	11	13	12	16	20	18	11	14	12	7	12	9	8	8	8
40 to 50 Feet	12	14	13	20	21	20	9	11	10	9	12	10	9	12	10
50 to 60 Feet	11	12	11	18	16	17	7	7	7	8	11	9	11	13	12
60 to 70 Feet	3	8	8	8	6	7	4	4	4	7	9	8	12	12	12
70 to 80 Feet	5	5	5	4	3	4	3	2	2	6	5	6	8	9	9
80 to 90 Feet	3	3	3	2	1	1	2	2	2	4	4	4	4	4	4
90 to 100 Feet	2	1	2	1	0	1	2	1	1	3	2	3	3	2	3
above 100 Feet	22	13	18	8	4	6	17	9	13	31	14	23	32	26	29
Mean height Feet	71	57	64	53	44	49	54	41	47	83	59	71	93	86	89

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			0			3			4			2
% occur 2+ EL dcts			5			0			6			9			2
AVG station N			325			307			324			357			312
AVG station -N/Kft			13			11			14			15			12
AVG sfc wind Kts	13	13	13	16	15	15	13	12	12	12	12	12	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 38 58 N 121 37 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 54662 38 58 N 121 37 E
Radiosonde station height: 318 Feet
Surface obs source: MS132 35 00 N 125 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	1	2	0	0	0	3	2	2	3	3	3	1	0	1
1 GHz	27	18	23	10	4	7	26	17	21	39	25	32	34	27	31
3 GHz	34	24	29	14	6	10	32	21	27	48	34	41	41	34	38
6 GHz	57	47	52	43	31	37	45	35	40	66	56	61	72	68	70
10 GHz	77	73	75	78	71	75	63	56	60	79	75	77	88	87	88
20 GHz	85	83	84	89	86	87	72	69	70	85	83	84	94	93	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	13	11	12	4	2	3	19	15	17	23	25	24	6	3	5
AVG thickness Kft			.24			.24			.18			.21			.32
AVG trap freq GHz			.94			1.1			.81			1.0			.90
AVG lyr grd -N/Kft			149			178			170			112			136

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	3	3	0	2	1	4	2	3	10	6	8	1	1	1
AVG top ht Kft			3.6			4.8			3.0			3.5			3.8
AVG thickness Kft			.38			.39			.51			.51			.13
AVG trap freq GHz			2.2			.91			.46			.37			7.2
AVG lyr grd -N/Kft			60			82			54			55			48
AVG lyr base Kft			3.3			4.6			2.5			3.2			2.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	12	11	12	5	5	5	25	23	24	14	14	14	4	3	4
10 to 20 Feet	6	9	7	6	9	8	10	14	12	5	8	6	2	4	3
20 to 30 Feet	8	11	10	11	15	13	10	15	12	7	10	8	5	6	6
30 to 40 Feet	11	13	12	16	20	18	11	14	12	7	12	9	8	8	8
40 to 50 Feet	12	14	13	20	21	20	9	11	10	9	12	10	9	12	10
50 to 60 Feet	11	12	11	18	16	17	7	7	7	8	11	9	11	13	12
60 to 70 Feet	8	8	8	8	6	7	4	4	4	7	9	8	12	12	12
70 to 80 Feet	5	5	5	4	3	4	3	2	2	6	5	6	8	9	9
80 to 90 Feet	3	3	3	2	1	1	2	2	2	4	4	4	4	4	4
90 to 100 Feet	2	1	2	1	0	1	2	1	1	3	2	3	3	2	3
above 100 Feet	22	13	18	8	4	6	17	9	13	31	14	23	32	26	29
Mean height Feet	71	57	64	53	44	49	54	41	47	83	59	71	93	86	89

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			328			312			324			361			315
AVG station -N/Kft			14			12			15			18			12
AVG sfc wind Kts	13	13	13	16	15	15	13	12	12	12	12	12	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 36 04 N 120 19 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 54857 36 04 N 120 19 E
Radiosonde station height: 253 Feet
Surface obs source: MS132 35 00 N 125 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	2	2	1	1	1	4	3	3	2	2	2	3	2	3
1 GHz	30	20	25	11	9	18	31	19	25	37	21	29	41	32	36
3 GHz	37	27	32	15	13	14	38	25	31	45	29	37	58	48	45
6 GHz	59	49	54	44	37	41	51	38	44	64	52	58	77	71	74
10 GHz	78	73	76	79	74	76	67	58	63	78	73	75	90	89	90
20 GHz	86	83	84	89	87	88	75	71	73	84	81	83	95	94	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	19	16	17	7	14	11	28	19	24	16	14	15	25	15	20
AVG thickness Kft			.32			.20			.37			.48			.22
AVG trap freq GHz			1.0			1.5			.69			.76			.92
AVG lyr grd -N/Kft			121			155			127			103			100

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	3	3	1	1	1	3	4	4	4	5	5	2	1	2
AVG top ht Kft			4.4			9.2			1.9			3.5			2.9
AVG thickness Kft			.42			.17			.52			.67			.32
AVG trap freq GHz			1.5			3.9			.45			.27			1.4
AVG lyr grd -N/Kft			54			55			55			53			55
AVG lyr base Kft			4.0			9.0			1.5			2.9			2.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	12	11	12	5	5	5	25	23	24	14	14	14	4	3	4
10 to 20 Feet	6	9	7	6	9	8	10	14	12	5	8	6	2	4	3
20 to 30 Feet	8	11	10	11	15	13	10	15	12	7	10	8	5	6	6
30 to 40 Feet	11	13	12	16	20	18	11	14	12	7	12	9	8	9	8
40 to 50 Feet	12	14	13	20	21	20	9	11	10	9	12	10	9	12	10
50 to 60 Feet	11	12	11	18	16	17	7	7	7	8	11	9	11	13	12
60 to 70 Feet	8	8	8	8	6	7	4	4	4	7	9	8	12	12	12
70 to 80 Feet	5	5	5	4	3	4	3	2	2	6	5	6	8	9	9
80 to 90 Feet	3	3	3	2	1	1	2	2	2	4	4	4	4	4	4
90 to 100 Feet	2	1	2	1	0	1	2	1	1	3	2	3	3	2	2
above 100 Feet	22	13	18	8	4	6	17	9	13	31	14	23	32	26	29
Mean height Feet	71	57	64	53	44	49	54	41	47	83	59	71	93	86	89

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			332			312			334			364			318
AVG station -N/Kft			15			12			16			19			13
AVG sfc wind Kts	13	13	13	16	15	15	13	12	12	12	12	12	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 37 28 N 53 58 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 38750 37 28 N 53 58 E
Radiosonde station height: -325 Feet
Surface obs source: MS103 25 00 N 55 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	1	1	1	0	1	1	1	1	3	2	2	1	2	1
1 GHz	49	23	36	41	14	27	60	34	47	53	23	38	42	20	31
3 GHz	57	30	43	50	19	34	65	40	53	62	30	46	52	29	41
6 GHz	76	54	65	72	47	60	78	59	68	76	51	64	76	58	67
10 GHz	87	75	81	86	73	80	86	78	82	87	73	80	89	78	84
20 GHz	92	86	89	91	85	88	90	87	88	90	83	87	95	89	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	9	11	10	3	7	8	8	8	25	12	19	6	13	10
AVG thickness Kft			*			*			*			*			*
AVG trap freq GHz			.75			.71			.47			1.0			.84
AVG lyr grd -M/Kft			224			242			178			216			261

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	3	3	1	1	1	3	2	3	5	6	6	3	3	3
AVG top ht Kft			*			*			*			*			*
AVG thickness Kft			.42			.33			.44			.48			.42
AVG trap freq GHz			.54			.59			.78			.31			.47
AVG lyr grd -M/Kft			61			67			59			58			60
AVG lyr base Kft			*			*			*			*			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	6	6	5	4	5	9	7	8	9	9	9	3	2	3
10 to 20 Feet	3	10	7	4	11	8	2	7	5	3	11	7	3	10	7
20 to 30 Feet	5	11	8	5	12	9	3	10	7	4	11	8	6	12	9
30 to 40 Feet	6	11	8	7	13	10	4	10	7	5	12	8	6	10	8
40 to 50 Feet	7	12	10	9	13	11	5	10	8	7	12	10	7	12	10
50 to 60 Feet	8	11	9	9	12	11	6	9	7	7	10	9	8	12	10
60 to 70 Feet	7	9	8	8	10	9	4	6	5	6	8	7	10	12	11
70 to 80 Feet	5	6	5	6	6	6	3	4	4	4	5	4	7	8	7
80 to 90 Feet	4	3	4	5	3	4	3	3	3	4	3	4	5	5	5
90 to 100 Feet	3	2	3	3	2	3	3	2	2	3	2	2	4	3	3
above 100 Feet	45	19	32	37	12	25	57	30	44	47	18	32	41	14	27
Mean height Feet	109	67	88	97	58	77	125	83	104	108	65	86	104	63	83

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station h			334			320			330			353			326
AVG station -M/Kft			14			12			14			16			14
AVG sfc wind kts	9.0	8.7	8.9	10	9.3	9.4	9.4	9.3	9.3	9.2	8.9	9.1	8.0	7.3	7.7

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 32 00 N 34 49 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 40179 32 00 N 34 49 E
Radiosonde station height: 98 Feet
Surface obs source: MS141 35 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	5	4	2	4	3	5	6	5	5	5	5	2	4	3
1 GHz	41	29	35	23	23	23	48	36	42	59	36	47	35	22	28
3 GHz	48	37	42	28	29	28	54	41	48	68	47	57	42	32	37
6 GHz	69	62	65	51	47	49	71	60	65	84	75	79	72	64	68
10 GHz	88	85	86	82	75	78	88	83	86	93	92	92	90	88	89
20 GHz	94	92	93	92	85	89	93	91	92	96	96	96	95	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	25	22	11	21	16	24	30	27	31	29	30	12	21	17
AVG thickness Kft			.40			.29			.41			.51			.41
AVG trap freq GHz			.46			.50			.42			.49			.43
AVG lyr grd -N/Kft			106			105			105			103			111

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	24	31	27	10	15	13	25	33	29	44	54	49	17	20	19
AVG top ht Kft			2.7			2.9			1.8			2.9			3.3
AVG thickness Kft			.62			.39			.63			.91			.83
AVG trap freq GHz			.33			.56			.23			.11			.41
AVG lyr grd -N/Kft			59			58			58			63			57
AVG lyr base Kft			2.2			2.5			1.3			2.2			2.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	4	4	4	4	7	5	5	6	6	3	2	3	1	2	2
10 to 20 Feet	4	7	5	4	12	8	4	7	5	3	3	3	4	5	4
20 to 30 Feet	7	10	8	12	13	12	7	11	9	4	6	5	6	9	7
30 to 40 Feet	10	14	12	16	16	16	10	17	13	5	9	7	8	13	10
40 to 50 Feet	13	15	14	18	18	18	12	16	14	7	14	11	12	16	14
50 to 60 Feet	11	14	12	13	11	12	8	13	11	8	16	12	13	16	15
60 to 70 Feet	9	10	9	8	6	7	7	7	7	7	12	10	12	13	12
70 to 80 Feet	6	7	6	5	4	4	5	4	4	6	8	7	8	10	9
80 to 90 Feet	3	3	3	2	2	2	2	1	2	4	6	5	4	5	5
90 to 100 Feet	2	2	2	1	0	1	3	1	2	4	3	3	2	3	3
above 100 Feet	33	14	24	17	11	14	37	18	28	48	21	34	29	6	18
Mean height Feet	91	63	77	66	53	59	94	65	79	114	76	95	88	59	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			0			3			6			1
% occur 2+ EL dcts			2			0			2			5			1
AVG station N			339			325			339			357			336
AVG station -N/Kft			18			14			20			23			15
AVG sfc wind Kts	11	11	11	13	12	13	11	12	11	9.3	10	9.5	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 33 49 N 35 28 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 40100 33 49 N 35 28 E
Radiosonde station height: 52 Feet
Surface obs source: MS141 35 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM CON RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	1	1	1	1	1	2	1	2	3	1	2	1	1	1
1 GHz	37	18	28	20	13	17	43	22	32	54	25	39	33	11	22
3 GHz	44	24	34	24	16	20	49	24	37	63	34	49	40	20	30
6 GHz	67	53	60	49	37	43	68	47	57	81	68	75	71	57	64
10 GHz	87	81	84	81	70	76	86	78	82	92	89	91	89	85	87
20 GHz	94	90	92	92	82	87	93	88	90	95	95	95	95	94	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	7	11	8	5	7	17	8	13	21	11	16	9	5	7
AVG thickness Kft			.29			.27			.31			.26			.31
AVG trap freq GHz			.88			1.1			.90			.95			.61
AVG lyr grd -N/Kft			129			158			112			105			142

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	19	17	3	3	3	19	16	18	31	44	38	9	13	11
AVG top ht Kft			2.3			1.8			2.2			3.2			2.1
AVG thickness Kft			.48			.29			.50			.69			.45
AVG trap freq GHz			.56			1.1			.41			.19			.51
AVG lyr grd -N/Kft			57			57			55			60			56
AVG lyr base Kft			1.9			1.6			1.7			2.6			1.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	4	4	4	4	7	5	5	6	6	3	2	3	1	2	2
10 to 20 Feet	4	7	5	4	12	8	4	7	5	3	3	3	4	5	4
20 to 30 Feet	7	10	8	12	13	12	7	11	9	4	6	5	6	9	7
30 to 40 Feet	10	14	12	16	16	16	10	17	13	5	9	7	8	13	10
40 to 50 Feet	13	16	14	18	18	18	12	16	14	7	14	11	12	16	14
50 to 60 Feet	11	14	12	13	11	12	8	13	11	8	16	12	13	16	15
60 to 70 Feet	9	10	9	8	6	7	7	7	7	7	12	10	12	13	12
70 to 80 Feet	6	7	6	5	4	4	5	4	4	6	8	7	8	10	9
80 to 90 Feet	3	3	3	2	2	2	2	1	2	4	6	5	4	5	5
90 to 100 Feet	2	2	2	1	0	1	3	1	2	4	3	3	2	3	3
above 100 Feet	33	14	24	17	11	14	37	18	28	48	21	34	29	8	19
Mean height Feet	91	63	77	66	53	59	94	65	79	114	75	95	88	59	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SP dcts			2			0			2			4			1
% occur 2+ EL dcts			1			0			2			4			1
AVG station N			342			324			344			362			338
AVG station -N/kft			17			14			18			20			19
AVG sfc wind Kts	11	11	11	13	12	13	11	12	11	9.3	10	9.5	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 34 40 N 32 49 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 17603 34 40 N 32 49 E
Radiosonde station height: 371 Feet
Surface obs source: MS141 35 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	1	2	1	0	1	2	1	1	6	4	5	0	0	0
1 GHz	37	18	28	19	12	16	41	21	31	58	31	44	30	9	19
3 GHz	43	24	33	23	15	19	47	23	35	66	40	53	36	17	27
6 GHz	66	52	59	47	36	42	66	46	56	83	71	77	69	56	62
10 GHz	87	81	84	80	70	75	86	78	82	92	90	91	89	85	87
20 GHz	93	90	92	92	82	87	92	88	90	95	95	95	94	93	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	11	7	9	4	3	4	10	5	8	25	16	21	3	2	3
AVG thickness Kft			.34			.20			.40			.53			.21
AVG trap freq GHz			1.1			.62			.67			.31			2.7
AVG lyr grd -N/Kft			197			210			155			94			328

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	14	15	4	6	5	19	13	16	22	26	24	14	12	13
AVG top ht Kft			3.1			3.6			2.7			2.6			3.5
AVG thickness Kft			.41			.27			.39			.65			.33
AVG trap freq GHz			.94			1.3			.64			.25			1.6
AVG lyr grd -N/Kft			60			72			54			58			55
AVG lyr base Kft			2.8			3.4			2.4			2.1			3.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	4	4	4	4	7	5	5	6	6	3	2	3	1	2	2
10 to 20 Feet	4	7	5	4	12	8	4	7	5	3	3	3	4	5	4
20 to 30 Feet	7	10	8	12	13	12	7	11	9	4	6	5	6	9	7
30 to 40 Feet	10	14	12	16	16	16	10	17	13	5	9	7	8	13	10
40 to 50 Feet	13	16	14	18	18	18	12	16	14	7	14	11	12	16	14
50 to 60 Feet	11	14	12	13	11	12	8	13	11	8	16	12	13	16	15
60 to 70 Feet	9	10	9	8	6	7	7	7	7	7	12	10	12	13	12
70 to 80 Feet	6	7	6	5	4	4	5	4	4	6	8	7	8	10	9
80 to 90 Feet	3	3	3	2	2	2	2	1	2	4	6	5	4	5	5
90 to 100 Feet	2	2	2	1	0	1	3	1	2	4	3	3	2	3	3
above 100 Feet	33	14	24	17	11	14	37	18	28	48	21	34	29	8	18
Mean height Feet	91	63	77	66	53	59	94	65	79	114	76	95	88	59	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			1			0			2			1			1
AVG station N			323			309			323			338			322
AVG station -N/Kft			14			11			15			18			13
AVG sfc wind Kts	11	11	11	13	12	13	11	12	11	9.3	10	9.5	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 12 N 33 18 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 17606 35 12 N 33 18 E
Radiosonde station height: 735 Feet
Surface obs source: MS141 35 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESN COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	3	2	0	0	0	1	3	2	0	7	4	0	1	1
1 GHz	34	22	28	17	11	14	38	28	33	49	39	44	30	11	20
3 GHz	39	29	34	21	14	17	44	32	38	57	48	53	37	20	28
6 GHz	64	55	60	46	36	41	63	53	58	78	75	76	69	58	63
10 GHz	86	82	84	80	69	75	85	80	82	90	92	91	89	85	87
20 GHz	93	90	92	92	82	87	92	89	90	94	96	95	94	94	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	14	8	1	2	2	3	17	10	2	29	16	3	6	5
AVG thickness Kft			.37			.24			.40			.55			.30
AVG trap freq GHz			.88			1.6			.42			.30			1.3
AVG lyr grd -N/Kft			133			186			86			102			157

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	16	12	4	5	5	6	15	11	16	32	24	5	11	8
AVG top ht Kft			3.0			3.9			2.1			2.9			2.9
AVG thickness Kft			.37			.21			.35			.60			.32
AVG trap freq GHz			.77			1.3			.62			.2[illegible]			.93
AVG lyr grd -N/Kft			60			71			55			58			55
AVG lyr base Kft			2.7			3.8			1.8			2.5			2.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	4	4	4	4	7	5	5	6	6	3	2	3	1	2	2
10 to 20 Feet	4	7	5	4	12	8	4	7	5	3	3	3	4	5	4
20 to 30 Feet	7	10	8	12	13	12	7	11	9	4	6	5	6	9	7
30 to 40 Feet	10	14	12	16	16	16	10	17	13	5	9	7	8	13	10
40 to 50 Feet	13	16	14	18	18	18	12	16	14	7	14	11	12	16	14
50 to 60 Feet	11	14	12	13	11	12	8	13	11	8	16	12	13	16	15
60 to 70 Feet	9	10	9	8	6	7	7	7	7	7	12	10	12	13	12
70 to 80 Feet	6	7	6	5	4	4	5	4	4	6	8	7	8	10	9
80 to 90 Feet	3	3	3	2	2	2	2	1	2	4	6	5	4	5	5
90 to 100 Feet	2	2	2	1	0	1	3	1	2	4	3	3	2	3	3
above 100 Feet	33	14	24	17	11	14	37	18	28	48	21	34	29	8	19
Mean height Feet	91	63	77	66	53	59	94	65	79	114	76	95	88	59	74

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur El.&SE dcts			1			0			1			2			0
% occur 2+ EL dcts			1			0			1			3			0
AVG station N			317			312			312			322			321
AVG station -N/Kft			12			12			12			12			13
AVG sfc wind Kts	11	11	11	13	12	13	11	12	11	9.3	10	9.5	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 37 54 N 23 43 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 16716 37 54 N 23 43 E
Radiosonde station height: 49 Feet
Surface obs source: MS142 35 00 N 25 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	0	0	0	2	1	1	2	1	1	1	0	1
1 GHz	37	20	29	19	9	14	48	28	38	54	32	43	27	11	19
3 GHz	44	25	35	24	11	18	55	32	44	63	41	52	36	17	27
6 GHz	65	50	58	47	35	41	69	49	59	80	66	73	65	50	58
10 GHz	84	77	81	77	71	74	83	72	78	90	86	88	86	81	83
20 GHz	91	88	89	88	86	87	90	84	87	93	92	92	93	91	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	3	6	0	1	1	20	5	13	10	5	8	7	2	5
AVG thickness Kft			.32			.27			.29			.34			.39
AVG trap freq GHz			.69			.35			1.2			.53			.62
AVG lyr grd -N/Kft			184			382			139			113			100

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	8	8	6	8	7	5	4	5	11	11	11	8	8	8
AVG top ht Kft			5.2			6.1			3.2			7.1			4.3
AVG thickness Kft			.26			.23			.19			.32			.28
AVG trap freq GHz			1.4			1.3			2.6			.70			1.1
AVG lyr grd -N/Kft			56			59			54			55			57
AVG lyr base Kft			5.0			5.9			3.0			6.9			4.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	5	5	6	6	6	7	7	7	5	5	5	3	3	3
10 to 20 Feet	5	7	6	7	9	8	5	8	7	3	4	3	4	7	5
20 to 30 Feet	7	11	9	11	15	13	7	13	10	4	6	5	8	10	9
30 to 40 Feet	9	14	12	14	18	16	9	13	11	5	10	7	10	14	12
40 to 50 Feet	11	14	12	16	18	17	8	11	10	6	11	8	13	17	15
50 to 60 Feet	9	11	10	12	13	12	6	7	7	6	10	8	13	15	14
60 to 70 Feet	7	8	8	7	7	7	5	6	5	6	9	8	11	11	11
70 to 80 Feet	5	6	5	4	4	4	3	4	4	6	8	7	7	7	7
80 to 90 Feet	4	3	3	3	1	2	3	2	3	5	5	5	5	4	4
90 to 100 Feet	3	2	2	2	1	1	2	2	2	4	3	4	3	2	3
above 100 Feet	34	19	27	19	8	14	43	26	35	51	30	40	24	10	17
Mean height Feet	91	68	80	67	49	58	101	75	88	117	87	102	80	59	70

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			329			320			330			336			329
AVG station -N/Kft			13			12			14			14			13
AVG sfc wind Kts	13	12	12	14	14	14	12	11	11	12	12	12	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 32 04 N 20 16 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 62053 32 04 N 20 16 E
Radiosonde station height: 427 Feet
Surface obs source: MS142 35 69 N 25 00 E

PERCENT OCC'-FENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	1	0	1	2	0	1	2	0	1	*	*	*
1 GHz	42	21	32	24	8	16	47	26	37	56	30	43	*	*	*
3 GHz	49	26	38	29	10	20	53	30	41	65	39	52	*	*	*
6 GHz	66	49	57	51	34	42	65	47	57	81	65	73	*	*	*
10 GHz	84	76	80	79	71	75	82	71	76	90	85	88	*	*	*
20 GHz	90	87	89	89	86	87	88	84	86	93	91	92	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	0	4	8	0	4	9	0	5	17	6	9	0	0	0
AVG thickness Kft			.51			.49			.60			.35			*
AVG trap freq GHz			.53			.46			.35			.77			*
AVG lyr grd -N/Kft			137			80			233			99			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	13	0	7	2	0	1	15	0	8	26	0	13	9	0	5
AVG top ht Kft			2.3			*			2.5			2.3			2.2
AVG thickness Kft			.49			.21			.53			.63			.57
AVG trap freq GHz			.81			1.2			.87			.27			.88
AVG lyr grd -N/Kft			72			*			73			67			77
AVG lyr base Kft			2.2			2.9			2.1			1.9			1.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	5	5	6	6	6	7	7	7	5	5	5	3	3	3
10 to 20 Feet	5	7	6	7	9	8	5	8	7	3	4	3	4	7	5
20 to 30 Feet	7	11	9	11	15	13	7	13	10	4	6	5	8	10	9
30 to 40 Feet	9	14	12	14	18	16	9	13	11	5	10	7	16	14	12
40 to 50 Feet	11	14	12	16	18	17	8	11	10	6	11	8	19	17	15
50 to 60 Feet	9	11	10	12	13	12	6	7	7	6	10	8	13	15	14
60 to 70 Feet	7	8	8	7	7	7	5	6	5	6	9	8	11	14	11
70 to 80 Feet	5	6	5	4	4	4	3	4	4	6	8	7	7	7	7
80 to 90 Feet	4	3	3	2	1	2	3	2	3	5	5	5	5	4	4
90 to 100 Feet	3	2	2	2	1	1	2	2	2	4	3	4	3	2	3
above 100 Feet	34	19	27	19	8	14	43	26	35	51	30	40	24	10	17
Mean height Feet	91	68	80	67	49	58	101	75	88	117	87	102	80	59	70

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL<SB dcts			1			0			2			3			0
% occur 2^ EL dcts			0			0			1			0			0
AVG station N			304			296			326			354			328
AVG station -N/Kft			14			8.9			15			21			12
AVG sfc wind Kts	13	12	12	14	14	14	12	11	11	12	12	12	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 19 N 25 10 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 16754 35 19 N 25 10 E
Radiosonde station height: 66 feet
Surface obs source: MS142 35 00 N 25 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	1	2	1	0	1	4	2	3	4	2	3	1	1	1
1 GHz	40	22	31	24	10	17	31	30	41	59	35	47	26	12	19
3 GHz	47	28	37	29	13	21	58	39	46	68	44	56	34	19	27
6 GHz	67	52	59	51	36	43	70	51	61	83	68	76	64	51	58
10 GHz	85	78	82	75	71	75	84	74	79	91	86	89	86	81	83
20 GHz	91	89	90	89	86	87	90	85	88	94	92	93	93	91	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	7	11	9	3	6	21	9	15	23	10	17	5	5	5
AVG thickness Kft			.35			.31			.41			.42			.27
AVG trap freq GHz			.58			.61			.52			.43			1.1
AVG lyr grd -N/Kft			131			119			129			97			180

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	19	33	26	14	20	17	16	36	26	28	47	38	17	29	23
AVG top ht Kft			4.2			4.7			3.5			4.0			4.7
AVG thickness Kft			.37			.32			.41			.43			.33
AVG trap freq GHz			.45			.55			.37			.33			.56
AVG lyr grd -N/Kft			52			60			61			60			66
AVG lyr base Kft			4.0			4.4			3.2			3.7			4.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	5	5	6	6	6	7	7	7	5	5	5	3	3	3
10 to 20 Feet	5	7	6	7	9	8	5	8	7	3	4	3	4	7	5
20 to 30 Feet	7	11	9	11	15	13	7	13	10	4	8	5	8	19	9
30 to 40 Feet	9	14	12	14	18	16	9	13	11	5	10	7	10	14	12
40 to 50 Feet	11	14	12	16	18	17	8	11	10	6	11	9	13	17	15
50 to 60 Feet	9	11	10	12	13	12	6	7	7	6	10	8	13	15	14
60 to 70 Feet	7	8	8	7	7	7	5	6	5	6	9	8	11	11	11
70 to 80 Feet	5	6	5	4	4	4	3	4	4	6	8	7	7	7	7
80 to 90 Feet	4	3	3	3	1	2	3	2	3	5	5	5	5	4	4
90 to 100 Feet	3	2	2	2	1	1	2	2	2	4	3	4	3	2	3
above 100 Feet	34	19	27	19	8	14	43	26	35	51	30	40	24	10	17
Mean height Feet	91	68	80	67	49	58	101	75	88	117	87	102	80	59	70

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			0			2			4			1
% occur 2+ EL dcts			4			2			4			9			2
AVG station N			325			316			325			336			325
AVG station -N/Kft			14			12			15			18			12
AVG sfc wind Kts	13	12	12	14	14	14	12	11	11	12	12	12	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 38 25 N 27 10 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 17220 38 25 N 27 10 E
Radiosonde station height: 82 Feet
Surface obs source: MS142 35 00 N 25 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
1 GHz	35	20	27	20	9	14	44	27	36	52	31	42	25	11	18
3 GHz	42	23	34	24	12	18	50	31	41	62	40	51	32	17	25
6 GHz	63	50	57	47	35	41	64	48	56	79	66	73	63	50	56
10 GHz	83	77	80	77	71	74	81	72	76	89	85	87	85	81	83
20 GHz	90	88	89	88	86	87	88	84	86	93	92	92	93	91	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	3	3	1	2	2	3	3	3	8	4	6	1	2	2
AVG thickness Kft			.29			.31			.20			.29			.37
AVG trap freq GHz			1.2			.80			.91			1.7			1.3
AVG lyr grd -N/Kft			144			106			229			107			133

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	3	2	0	2	1	3	2	3	2	5	4	1	3	2
AVG top ht Kft			4.7			3.8			3.8			7.1			4.9
AVG thickness Kft			.32			.31			.34			.31			.31
AVG trap freq GHz			1.2			.93			1.9			1.3			.63
AVG lyr grd -N/Kft			62			61			59			51			79
AVG lyr base Kft			4.5			3.6			2.8			6.9			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	5	5	6	6	6	7	7	7	5	5	5	3	3	3
10 to 20 Feet	5	7	6	7	9	8	5	8	7	3	4	3	4	7	5
20 to 30 Feet	7	11	9	11	15	13	7	13	10	4	6	5	8	10	9
30 to 40 Feet	9	14	12	14	18	16	9	13	11	5	10	7	10	14	12
40 to 50 Feet	11	14	12	16	18	17	8	11	10	6	11	9	13	17	15
50 to 60 Feet	9	11	10	12	13	12	6	7	7	6	10	8	13	15	14
60 to 70 Feet	7	8	8	7	7	7	5	6	5	6	9	8	11	11	11
70 to 80 Feet	5	6	5	4	4	4	3	4	4	6	8	7	7	7	7
80 to 90 Feet	4	3	3	3	1	2	3	2	3	5	5	5	5	4	4
90 to 100 Feet	3	2	2	2	1	1	2	2	2	4	3	4	3	2	3
above 100 Feet	34	19	27	19	8	14	43	26	35	51	30	40	24	10	17
Mean height Feet	91	68	80	67	49	58	101	75	88	117	87	102	80	59	70

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			327			318			324			338			327
AVG station -N/Kft			13			12			13			15			13
AVG sfc wind Kts	13	12	12	14	14	14	12	11	11	12	12	12	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 31 19 N 27 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 62306 31 19 N 27 13 E
Radiosonde station height: 92 Feet
Surface obs source: MS142 35 00 N 25 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SUPFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	2	3	1	1	1	5	4	4	9	4	6	1	1	1
1 GHz	43	26	34	23	13	18	54	36	45	66	40	53	28	13	21
3 GHz	50	32	41	29	17	23	61	42	51	74	49	61	37	20	28
6 GHz	69	55	62	51	40	45	73	57	65	86	71	78	65	52	59
10 GHz	86	80	83	79	73	76	85	76	81	93	87	90	86	82	84
29 GHz	92	89	91	89	87	88	91	87	89	95	93	94	94	91	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	14	17	9	10	10	27	19	23	37	17	27	11	8	13
AVG thickness Kft			.40			.32			.39			.53			.37
AVG trap freq GHz			.75			.80			.40			.28			1.5
AVG lyr grd -N/Kft			120			180			92			94			115

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	21	17	6	18	12	12	18	15	26	37	32	5	10	8
AVG top ht Kft			2.4			2.8			1.7			2.2			2.9
AVG thickness Kft			.54			.46			.56			.62			.53
AVG trap freq GHz			.37			.30			.40			.31			.47
AVG lyr grd -N/Kft			60			68			57			56			61
AVG lyr base Kft			2.0			2.5			1.2			1.7			2.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	5	5	6	6	6	7	7	7	5	5	5	3	3	3
10 to 20 Feet	5	7	6	7	9	8	5	8	7	3	4	3	4	7	5
20 to 30 Feet	7	11	9	11	15	13	7	12	10	4	6	5	6	10	9
30 to 40 Feet	9	14	12	14	18	16	9	13	11	5	10	7	10	14	12
40 to 50 Feet	11	14	12	16	18	17	8	11	10	6	11	8	13	17	15
50 to 60 Feet	9	11	10	12	13	12	6	7	7	6	10	8	13	15	14
60 to 70 Feet	7	8	8	7	7	7	5	6	5	6	9	8	11	11	11
70 to 80 Feet	5	6	5	4	4	4	3	4	4	6	8	7	7	7	7
80 to 90 Feet	4	3	3	3	1	2	3	2	3	5	5	5	5	4	4
90 to 100 Feet	3	2	2	2	1	1	2	2	2	4	3	4	3	2	3
above 100 Feet	34	19	27	19	8	14	43	26	35	51	30	40	24	10	17
Mean height Feet	91	68	80	67	49	58	101	75	88	117	87	102	80	59	70

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL<SB dcts			1			0			1			3			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			342			325			343			363			337
AVG station -N/Kft			18			14			19			24			15
AVG sfc wind Kts	13	12	12	14	14	14	12	11	11	12	12	12	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITI[illegible] SUMMARY

Specified location: 32 06 N 24 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 62062 32 06 N 24 00 E
Radiosonde station height: 46 Feet
Surface obs source: MS142 35 00 N 25 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	4	3	0	0	0	7	7	7	4	6	5	1	2	2
1 GHz	41	29	35	20	10	15	57	45	51	59	46	53	28	17	23
3 GHz	49	37	43	25	13	19	65	53	59	69	57	63	37	24	30
6 GHz	68	58	63	48	36	42	76	66	71	83	76	80	65	55	60
10 GHz	86	81	84	77	72	75	87	82	85	91	90	91	86	83	84
20 GHz	92	90	91	88	86	87	92	90	91	94	94	94	93	92	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	19	22	21	3	4	4	38	38	38	26	35	31	9	12	11
AVG thickness Kft			.39			.24			.43			.49			.39
AVG trap freq GHz			.77			1.5			.50			.51			.64
AVG lyr grd -N/Kft			109			130			105			92			109

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	23	28	26	11	11	11	26	32	29	41	53	47	15	16	16
AVG top ht Kft			2.9			4.2			1.5			2.2			3.6
AVG thickness Kft			.58			.26			.57			.75			.39
AVG trap freq GHz			.46			1.0			.23			.14			.49
AVG lyr grd -N/Kft			61			57			60			64			62
AVG lyr base Kft			2.5			4.0			1.1			1.7			3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	5	5	6	6	6	7	7	7	5	5	5	3	3	3
10 to 20 Feet	5	7	6	7	9	8	5	8	7	3	4	3	4	7	5
20 to 30 Feet	7	11	9	11	15	13	7	13	10	4	6	5	8	10	9
30 to 40 Feet	9	14	12	14	18	16	9	13	11	5	10	7	10	14	12
40 to 50 Feet	11	14	12	16	18	17	8	11	10	6	11	8	13	17	15
50 to 60 Feet	9	11	10	12	13	12	6	7	7	6	10	8	13	15	14
60 to 70 Feet	7	8	8	7	7	7	5	6	5	6	9	8	11	11	11
70 to 80 Feet	5	6	5	4	4	4	3	4	4	6	8	7	7	7	7
80 to 90 Feet	4	3	3	3	1	2	3	2	3	5	5	5	5	4	4
90 to 100 Feet	3	2	2	2	1	1	2	2	2	4	3	4	3	2	3
above 100 Feet	24	19	27	19	8	14	43	26	35	51	30	40	24	10	17
Mean Height Feet	91	69	80	67	49	58	101	75	88	117	87	102	80	59	70

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL=S8 dcts			4			2			3			8			1
% occur 2+ EL dcts			2			0			1			4			1
AVG station N			341			322			345			363			334
AVG station -N/Kft			16			13			20			24			14
AVG sfc wind Kts	13	12	12	14	14	14	12	11	11	12	12	12	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 38 12 N 15 36 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 16420 38 12 N 15 36 E
Radiosonde station height: 177 Feet
Surface obs source: MS143 35 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	*	*	*	1	1	1	2	2	2	*	*	*
1 GHz	42	20	31	*	*	*	37	16	26	47	24	36	*	*	*
3 GHz	48	25	37	*	*	*	41	20	30	55	31	43	*	*	*
6 GHz	65	45	55	*	*	*	57	34	46	73	55	64	*	*	*
10 GHz	81	78	76	*	*	*	76	62	69	86	79	82	*	*	*
20 GHz	88	83	86	*	*	*	85	78	82	91	88	90	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	9	8	*	*	*	6	4	5	10	13	12	*	*	*
AVG thickness Kft			.36			*			.37			.35			*
AVG trap freq GHz			.63			*			.66			.59			*
AVG lyr grd -M/Kft			152			*			133			172			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	4	6	*	*	*	4	4	4	11	4	8	*	*	*
AVG top ht Kft			3.4			*			3.3			3.6			*
AVG thickness Kft			.61			*			.46			.82			*
AVG trap freq GHz			.51			*			.86			.15			*
AVG lyr grd -M/Kft			61			*			51			71			*
AVG lyr base Kft			3.0			*			2.9			3.1			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	6	6	6	6	5	6	9	10	10	5	6	6	4	4	4
10 to 20 Feet	5	9	7	6	9	7	7	13	10	4	7	5	4	7	6
20 to 30 Feet	8	14	11	11	16	13	10	17	13	5	11	8	7	13	10
30 to 40 Feet	10	16	13	13	19	16	11	16	13	6	13	10	10	15	13
40 to 50 Feet	11	15	13	14	18	16	10	12	11	9	13	11	12	17	14
50 to 60 Feet	10	11	11	11	12	11	7	8	8	8	12	10	12	15	14
60 to 70 Feet	7	7	7	7	6	7	5	4	5	6	8	7	10	10	10
70 to 80 Feet	5	4	5	5	3	4	3	3	3	5	6	6	8	5	6
80 to 90 Feet	3	2	3	3	2	2	2	2	2	4	3	3	4	3	4
90 to 100 Feet	3	2	2	2	1	1	2	1	1	3	2	3	3	2	3
above 100 Feet	32	12	22	23	8	15	34	14	24	44	18	31	26	10	18
Mean height Feet	57	56	71	73	49	60	86	53	70	106	67	86	82	56	69

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur SL&SB dcts			0			0			0			1			0
% occur 2+ SL dcts			0			0			0			0			0
AVG station M			342			*			335			349			*
AVG station -M/Kft			17			*			16			18			*
AVG sfc wind Kts	12	12	12	15	14	14	11	11	11	9.5	9.3	9.4	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 49 N 14 25 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 16596 35 49 N 14 25 E
Radiosonde station height: 443 Feet
Surface obs source: MS143 35 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	4	3	1	1	1	4	4	4	5	8	7	2	2	2
1 GHz	39	24	32	26	12	19	44	29	37	55	41	48	33	15	24
3 GHz	47	32	40	33	16	24	51	38	44	63	51	57	42	22	32
6 GHz	67	52	59	55	37	46	65	51	58	79	69	74	69	50	60
10 GHz	84	77	81	79	71	75	81	72	77	89	85	87	88	79	83
20 GHz	91	88	90	89	87	88	89	84	87	93	92	92	93	91	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	22	25	24	12	11	12	23	35	32	29	41	35	20	14	17
AVG thickness Kft			.30			.17			.28			.51			.23
AVG trap freq GHz			1.2			1.9			1.0			.44			1.4
AVG lyr grd -N/Kft			97			101			89			93			107

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	23	21	12	15	14	17	22	20	29	31	30	20	23	22
AVG top ht Kft			2.0			1.9			1.4			2.2			2.3
AVG thickness Kft			.43			.30			.42			.57			.42
AVG trap freq GHz			.49			.83			.38			.25			.51
AVG lyr grd -N/Kft			58			56			61			57			57
AVG lyr base Kft			1.6			1.7			1.1			1.7			2.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	6	6	6	6	6	6	9	10	10	6	6	6	4	4	4
10 to 20 Feet	5	9	7	6	9	7	7	13	10	4	7	5	4	7	6
20 to 30 Feet	8	14	11	11	16	13	10	17	13	5	11	8	7	13	10
30 to 40 Feet	10	16	13	13	19	16	11	16	13	6	13	10	10	15	13
40 to 50 Feet	11	15	13	14	18	16	10	12	11	8	13	11	12	17	14
50 to 60 Feet	10	11	11	11	12	11	7	8	8	8	12	10	12	15	14
60 to 70 Feet	7	7	7	7	6	7	5	4	5	6	8	7	10	10	10
70 to 80 Feet	5	4	5	5	3	4	3	3	3	5	6	6	8	5	6
80 to 90 Feet	3	2	3	3	2	2	2	2	2	4	3	3	4	3	4
90 to 100 Feet	3	2	2	2	1	1	2	1	1	3	2	3	3	2	3
above 100 Feet	32	12	22	23	8	15	34	14	24	44	18	31	26	10	18
Mean height Feet	87	56	71	73	48	60	86	53	70	106	67	86	82	56	69

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			1			3			5			3
% occur 2+ EL dcts			1			0			1			2			1
AVG station N			337			325			335			353			333
AVG station -N/Kft			18			15			18			21			16
AVG sfc wind Kts	12	12	12	15	14	14	11	11	11	9.5	9.3	9.4	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 36 49 N 10 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 60715 36 49 N 10 13 E
Radiosonde station height: 16 Feet
Surface obs source: MS143 35 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	2	2	1	1	1	1	2	2	5	6	5	1	1	1
1 GHz	36	20	28	26	12	19	38	22	30	53	34	44	28	12	20
3 GHz	43	26	34	31	16	24	43	27	35	61	42	52	37	18	27
6 GHz	63	47	55	53	36	45	59	41	50	77	63	70	65	47	56
10 GHz	82	74	78	79	71	75	77	66	72	88	82	85	86	77	82
20 GHz	90	87	88	88	86	87	86	81	83	92	90	91	92	90	91

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	14	13	7	8	8	11	17	14	22	27	25	6	5	6
AVG thickness Kft			.38			.33			.34			.49			.30
AVG trap freq GHz			.81			.82			.94			.34			1.1
AVG lyr grd -N/Kft			97			82			79			72			155

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	8	8	2	3	3	8	9	8	17	16	17	4	6	5
AVG top ht Kft			3.1			4.0			2.2			2.4			3.9
AVG thickness Kft			.42			.31			.50			.56			.31
AVG trap freq GHz			.69			1.0			.39			.37			1.0
AVG lyr grd -N/Kft			57			61			58			54			56
AVG lyr base Kft			2.8			3.7			1.8			1.9			3.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	6	6	6	6	6	6	9	10	10	6	6	6	4	4	4
10 to 20 Feet	5	9	7	6	9	7	7	13	10	4	7	5	4	7	6
20 to 30 Feet	8	14	11	11	16	13	10	17	13	5	11	8	7	13	10
30 to 40 Feet	10	16	13	13	19	16	11	16	13	6	13	10	10	15	13
40 to 50 Feet	11	15	13	14	18	16	10	12	11	8	13	11	12	17	14
50 to 60 Feet	10	11	11	11	12	11	7	8	8	8	12	10	12	15	14
60 to 70 Feet	7	7	7	7	6	7	5	4	5	6	8	7	10	10	10
70 to 80 Feet	5	4	5	5	3	4	3	3	3	5	6	6	8	5	6
80 to 90 Feet	3	2	3	3	2	2	2	2	2	4	3	3	4	3	4
90 to 100 Feet	3	2	2	2	1	1	2	1	1	3	2	3	3	2	3
above 100 Feet	32	12	22	23	8	15	34	14	24	44	18	31	26	10	18
Mean height Feet	87	56	71	73	48	60	86	53	70	106	67	86	82	56	69

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			1			2			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			338			326			337			355			334
AVG station -N/Kft			15			13			16			19			14
AVG sfc wind Kts	12	12	12	15	14	14	11	11	11	9.5	9.3	9.4	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 32 54 N 13 18 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 62911 32 54 N 13 18 E
Radiosonde station height: 13 Feet
Surface obs source: MS143 35 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	14	9	12	4	4	4	16	11	14	30	20	25	4	3	3
1 GHz	58	37	47	36	21	29	69	46	58	89	61	75	38	19	29
3 GHz	65	43	54	44	27	35	76	53	65	92	65	79	49	26	37
6 GHz	78	60	69	63	46	54	83	63	73	95	77	86	73	53	63
10 GHz	90	81	85	83	75	79	91	78	84	98	89	93	89	80	85
20 GHz	94	90	92	91	88	90	94	87	91	99	94	96	94	91	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	51	35	43	27	22	25	63	45	54	84	55	70	29	18	24
AVG thickness Kft			.46			.36			.48			.67			.34
AVG trap freq GHz			.43			.54			.25			.15			.77
AVG lyr grd -N/Kft			101			104			95			93			113

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	29	23	13	25	19	17	28	23	23	43	33	12	19	16
AVG top ht Kft			3.6			3.4			2.2			3.2			5.4
AVG thickness Kft			.42			.30			.43			.62			.32
AVG trap freq GHz			.47			.72			.40			.19			.60
AVG lyr grd -N/Kft			62			56			61			70			61
AVG lyr base Kft			3.3			3.2			1.9			3.8			5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	6	6	6	6	6	6	9	10	10	6	6	6	4	4	4
10 to 20 Feet	5	9	7	6	9	7	7	13	10	4	7	5	4	7	6
20 to 30 Feet	8	14	11	11	16	13	10	17	13	5	11	8	7	15	10
30 to 40 Feet	10	16	13	13	19	16	11	16	13	6	13	10	10	15	13
40 to 50 Feet	11	15	13	14	18	16	10	12	11	8	13	11	12	17	14
50 to 60 Feet	10	11	11	11	12	11	7	8	8	8	12	10	12	15	14
60 to 70 Feet	7	7	7	7	6	7	5	4	5	6	8	7	10	10	10
70 to 80 Feet	5	4	5	5	3	4	3	3	3	5	6	6	8	5	6
80 to 90 Feet	3	2	3	3	2	2	2	2	2	4	3	3	4	3	4
90 to 100 Feet	2	2	2	2	1	1	2	1	1	3	2	3	3	2	3
above 100 Feet	32	12	22	23	8	15	24	14	20	44	18	31	26	10	18
Mean height Feet	37	56	71	73	48	60	86	53	70	106	67	86	82	56	69

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			6			3			7			12			3
% occur 2+ EL dcts			3			1			5			6			3
AVG station N			342			324			344			336			332
AVG station -N/Kft			26			15			22			28			16
AVG sfc wind Kts	12	12	12	15	14	14	11	11	11	9.5	9.3	9.4	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 36 43 N 3 15 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 60390 36 43 N 3 15 E
Radiosonde station height: 75 Feet
Surface obs source: MS144 35 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	4	3	1	1	1	2	3	3	3	10	7	1	1	1
1 GHz	33	23	28	28	13	21	35	25	30	41	41	41	29	14	21
3 GHz	39	28	34	33	17	25	41	30	36	47	46	47	36	19	28
6 GHz	58	46	52	53	34	44	55	43	49	64	62	63	61	44	53
10 GHz	80	72	76	78	66	72	75	67	71	81	81	81	85	76	80
20 GHz	88	85	87	89	82	85	95	82	83	89	89	89	92	88	90

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	17	13	7	8	8	10	21	16	9	32	21	5	8	7
AVG thickness Kft			.43			.36			.36			.70			.30
AVG trap freq GHz			.65			.64			.57			.15			1.2
AVG lyr grd -N/Kft			106			117			110			84			111

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	17	17	17	6	8	7	16	18	17	35	29	32	10	13	12
AVG top ht Kft			3.2			3.1			3.5			2.5			3.7
AVG thickness Kft			.45			.29			.45			.62			.45
AVG trap freq GHz			.51			.78			.54			.21			.52
AVG lyr grd -N/Kft			57			56			56			58			56
AVG lyr base Kft			2.8			2.8			3.1			2.0			3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	6	7	7	6	7	6	9	10	9	6	5	6	4	4	4
10 to 20 Feet	6	11	9	7	12	9	8	13	11	6	11	8	5	8	7
20 to 30 Feet	10	15	12	11	17	14	11	18	14	9	12	10	7	13	10
30 to 40 Feet	11	16	14	13	19	16	12	18	15	9	13	11	11	16	14
40 to 50 Feet	11	15	13	13	16	14	10	12	11	9	14	11	13	17	15
50 to 60 Feet	9	11	10	10	10	10	7	7	7	8	11	10	11	13	12
60 to 70 Feet	6	6	6	7	5	6	4	4	4	6	7	7	8	8	8
70 to 80 Feet	5	4	4	4	2	3	3	2	3	5	5	5	6	5	6
80 to 90 Feet	3	2	3	2	1	2	2	1	2	4	3	3	4	2	3
90 to 100 Feet	2	1	2	2	1	1	2	1	1	3	2	2	3	1	2
above 100 Feet	30	12	21	23	9	17	31	14	22	36	16	26	27	11	19
Mean height Feet	83	54	68	75	48	62	81	52	66	92	62	77	82	56	69

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SL ducts			1			1			2			2			1
% occur 2+ EL ducts			1			0			1			3			1
AVG station N			336			325			338			351			339
AVG station -N/Kft			15			12			16			19			13
AVG sfc wind Kts	12	11	11	14	13	13	11	10	11	10	8.9	9.2	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 39 15 N 9 03 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 16560 39 15 N 9 03 E
Radiosonde station height: 13 Feet
Surface obs source: MS144 35 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	3	3	2	1	1	3	3	3	8	8	8	2	1	2
1 GHz	38	22	30	30	12	21	38	23	30	51	37	44	31	16	24
3 GHz	44	26	35	36	15	26	44	27	35	58	43	51	39	21	30
6 GHz	62	44	53	55	32	44	57	39	48	72	61	66	63	45	54
10 GHz	81	71	76	79	65	72	76	65	70	85	80	82	85	76	81
20 GHz	89	85	87	89	82	85	86	80	83	91	88	90	92	88	90

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	15	15	12	6	9	14	14	14	29	29	29	10	9	10
AVG thickness Kft			.44			.32			.46			.61			.39
AVG trap freq GHz			.49			.77			.36			.24			.60
AVG lyr grd -N/Kft			88			110			81			75			84

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	13	17	15	9	11	10	10	15	13	14	19	17	17	21	19
AVG top ht Kft			3.6			3.5			4.1			2.9			4.0
AVG thickness Kft			.39			.31			.35			.52			.36
AVG trap freq GHz			.58			.90			.59			.35			.49
AVG lyr grd -N/Kft			59			56			59			61			59
AVG lyr base Kft			3.4			3.3			3.9			2.6			3.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	6	7	7	6	7	6	9	10	9	6	6	6	4	4	4
10 to 20 Feet	6	11	9	7	12	9	8	13	11	6	11	8	5	8	7
20 to 30 Feet	10	15	12	11	17	14	11	18	14	9	12	10	7	13	10
30 to 40 Feet	11	16	14	13	19	16	12	18	15	9	13	11	11	16	14
40 to 50 Feet	11	15	13	13	16	14	10	12	11	9	14	11	13	17	15
50 to 60 Feet	9	11	10	10	10	10	7	7	7	8	11	10	11	13	12
60 to 70 Feet	6	6	6	7	5	6	4	4	4	6	7	7	8	8	8
70 to 80 Feet	5	4	4	4	2	3	3	2	3	5	5	5	6	5	6
80 to 90 Feet	3	2	3	2	1	2	2	1	2	4	3	3	4	2	3
90 to 100 Feet	2	1	2	2	1	1	2	1	1	3	2	2	3	1	2
above 100 Feet	30	12	21	25	9	17	31	14	22	36	16	26	27	11	19
Mean height Feet	83	54	68	75	48	62	81	52	66	92	52	77	82	56	69

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			1			1			3			1
% occur 2+ EL dcts			1			0			1			1			1
AVG station N			339			328			339			355			335
AVG station -N-Kft			15			15			18			22			16
AVG sfc wind Kts	12	11	11	14	12	13	11	10	11	10	8.9	9.2	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 39 36 N 2 42 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 8302 39 36 N 2 42 E
Radiosonde station height: 148 Feet
Surface obs source: MS144 35 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0
1 GHz	31	14	23	25	10	17	32	15	24	39	20	29	28	12	20
3 GHz	37	18	27	30	12	21	37	18	27	45	25	35	35	16	26
6 GHz	56	38	47	51	30	40	51	31	41	63	48	56	60	42	51
10 GHz	78	68	73	77	64	70	73	60	67	80	73	77	84	74	79
20 GHz	88	83	85	88	81	84	84	78	81	88	85	87	91	87	89

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	4	4	1	2	2	3	3	3	7	7	7	2	3	3
AVG thickness Kft			.30			.25			.32			.31			.32
AVG trap freq GHz			.89			1.4			.54			.54			1.0
AVG lyr grd -N/Kft			125			131			110			88			170

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	8	8	4	4	4	7	3	5	15	15	15	9	10	10
AVG top ht Kft			3.5			3.1			3.1			3.9			3.8
AVG thickness Kft			.35			.29			.31			.47			.35
AVG trap freq GHz			.70			.79			.91			.43			.66
AVG lyr grd -N/Kft			59			56			61			56			65
AVG lyr base Kft			3.2			2.9			2.9			3.5			3.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	6	7	7	6	7	6	9	10	9	6	6	6	4	4	4
10 to 20 Feet	6	11	9	7	12	9	8	13	11	6	11	8	5	8	7
20 to 30 Feet	10	15	12	11	17	14	11	18	14	9	12	10	7	13	10
30 to 40 Feet	11	16	14	13	19	16	12	18	15	9	13	11	11	16	14
40 to 50 Feet	11	15	13	13	16	14	10	12	11	9	14	11	13	17	15
50 to 60 Feet	9	11	10	10	10	10	7	7	7	8	11	10	11	13	12
60 to 70 Feet	6	6	6	7	5	6	4	4	4	6	7	7	8	8	8
70 to 80 Feet	5	4	4	4	2	3	3	2	3	5	5	5	6	5	6
80 to 90 Feet	3	2	3	2	1	2	2	1	2	4	3	3	4	2	3
90 to 100 Feet	2	1	2	2	1	1	2	1	1	3	2	2	3	1	2
above 100 Feet	30	12	21	25	9	17	31	14	22	36	16	26	27	11	19
Mean height Feet	83	54	68	75	48	62	81	52	66	92	62	77	82	56	69

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SP dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			330			321			328			344			328
AVG station -N/Kft			13			12			13			14			13
AVG sfc wind Kts	12	11	11	14	13	13	11	10	11	10	8.9	9.2	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 48 27 N 4 25 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 7110 48 27 N 4 25 W
Radiosonde station height: 338 Feet
Surface obs source: MS145 45 00 N 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE PADAP/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
1 GHz	10	6	8	5	2	3	11	6	9	17	10	14	7	4	5
3 GHz	12	7	10	6	3	4	13	8	11	21	13	17	9	5	7
6 GHz	25	17	21	17	10	14	24	16	20	36	26	31	25	17	21
10 GHz	55	48	51	48	42	45	50	43	47	62	54	58	59	52	55
20 GHz	73	69	71	68	66	67	69	66	68	76	72	74	78	74	76

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	2	1	0	1	0	3	2	3	5	4	1	1	1
AVG thickness Kft			.26			.25			.28			.33			.16
AVG trap freq GHz			1.8			3.2			.68			1.1			2.1
AVG lyr grd -N/Kft			139			96			117			107			235

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	10	10	10	5	5	5	10	9	10	15	16	16	9	9	9
AVG top ht Kft			3.6			3.3			3.6			3.5			3.9
AVG thickness Kft			.35			.31			.29			.45			.34
AVG trap freq GHz			.60			.72			.65			.41			.62
AVG lyr grd -N/Kft			57			56			62			56			55
AVG lyr base Kft			3.3			3.1			3.4			3.1			3.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	13	14	13	14	14	14	15	15	15	13	14	14	10	11	10
10 to 20 Feet	14	17	16	17	19	18	16	20	18	11	16	13	13	15	14
20 to 30 Feet	18	22	20	20	23	22	19	24	22	15	19	17	19	22	21
30 to 40 Feet	18	19	18	19	20	20	17	18	18	15	17	16	20	21	20
40 to 50 Feet	12	12	12	12	12	12	10	9	10	11	12	12	15	14	14
50 to 60 Feet	8	6	7	7	5	6	6	5	5	8	7	8	9	8	9
60 to 70 Feet	3	3	3	2	2	2	3	2	2	5	4	4	4	3	3
70 to 80 Feet	2	1	2	1	1	1	2	1	1	3	2	2	2	1	2
80 to 99 Feet	1	1	1	1	0	1	1	1	1	2	1	1	1	1	1
90 to 100 Feet	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1
above 100 Feet	10	5	7	5	2	3	11	5	8	16	9	12	7	3	5
Mean height Feet	45	35	40	36	31	33	45	33	39	56	41	49	42	36	39

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			1			0			0			2			0
AVG station N			337			319			326			337			326
AVG station -N/Kft			42			13			13			15			13
AVG sfc wind Kts	15	14	15	18	17	17	14	13	13	12	12	12	17	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 43 22 N 8 25 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 8001 43 22 N 8 25 W
Radiosonde station height: 220 Feet
Surface obs source: MS145 45 00 N 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE PADAP/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
1 GHz	11	5	8	5	2	3	12	6	9	18	9	14	7	4	6
3 GHz	13	7	10	6	3	5	15	7	11	22	11	17	9	5	7
6 GHz	26	17	21	16	11	14	25	15	20	37	25	31	25	17	21
10 GHz	55	47	51	48	43	45	51	42	47	62	53	58	59	52	55
20 GHz	73	69	71	68	66	67	70	66	68	76	71	74	78	74	76

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	0	1	1	3	2	3	4	2	3	2	1	2
AVG thickness Kft			.32			.28			.30			.47			.25
AVG trap freq GHz			1.4			1.3			1.5			.72			2.0
AVG lyr grd -N/Kft			108			79			120			107			126

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	18	17	9	10	10	16	18	17	24	29	27	16	15	15
AVG top ht Kft			4.6			4.2			4.4			4.7			5.1
AVG thickness Kft			.41			.31			.37			.59			.37
AVG trap freq GHz			.47			.67			.47			.21			.55
AVG lyr grd -N/Kft			59			56			58			62			58
AVG lyr base Kft			4.3			4.0			4.2			4.3			4.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	13	14	13	14	14	14	15	15	15	13	14	14	10	11	10
10 to 20 Feet	14	17	16	17	19	18	16	20	18	11	16	13	13	15	14
20 to 30 Feet	18	22	20	20	23	22	19	24	22	15	19	17	19	22	21
30 to 40 Feet	18	19	18	19	20	20	17	18	18	15	17	16	20	21	20
40 to 50 Feet	12	12	12	12	12	12	10	9	10	11	12	12	15	14	14
50 to 60 Feet	8	6	7	7	5	6	6	5	5	8	7	8	9	8	9
60 to 70 Feet	3	3	3	2	2	2	3	2	2	5	4	4	4	3	3
70 to 80 Feet	2	1	2	1	1	1	2	1	1	3	2	2	2	1	2
80 to 90 Feet	1	1	1	1	0	1	1	1	1	2	1	1	1	1	1
90 to 100 Feet	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1
above 100 Feet	10	5	7	5	2	3	11	5	8	16	8	12	7	3	5
Mean height Feet	45	35	40	36	31	33	45	33	39	56	41	49	42	36	39

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			1			0			1			1			1
AVG station N			332			324			330			344			330
AVG station -N/Kft			14			13			14			15			13
AVG sfc wind Kts	15	14	15	18	17	17	14	13	13	12	12	12	17	16	16

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45 00 N 16 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YK 45 00 N 16 00 W
Radiosonde station height: 39 Feet
Surface obs source: MS146 45 00 N 15 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	9	3	6	5	3	4	12	4	8	14	5	9	6	2	4
3 GHz	12	5	8	7	3	5	14	6	10	17	7	12	8	3	6
6 GHz	29	17	23	22	14	18	28	14	21	36	20	28	29	19	24
10 GHz	60	51	55	56	50	53	57	46	52	65	52	59	62	56	59
20 GHz	76	71	74	74	70	72	74	69	72	78	72	75	78	75	76

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	2	3	3	3	3	3	2	2	2	0	1	1
AVG thickness Kft			.29			.34			.21			.35			.25
AVG trap freq GHz			2.2			2.5			1.2			2.4			2.8
AVG lyr grd -N/Kft			129			98			83			111			224

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	15	15	12	10	11	12	14	13	20	22	21	17	15	16
AVG top ht Kft			4.5			4.4			4.0			4.7			4.9
AVG thickness Kft			.40			.36			.41			.45			.38
AVG trap freq GHz			.53			.68			.57			.37			.49
AVG lyr grd -N/Kft			57			59			57			56			58
AVG lyr base Kft			4.2			4.2			3.6			4.4			4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	12	13	12	13	13	13	13	14	13	11	12	12	11	12	11
10 to 20 Feet	12	16	14	14	17	15	13	18	16	11	16	13	11	13	12
20 to 30 Feet	16	21	19	18	21	19	17	23	20	14	20	17	16	19	18
30 to 40 Feet	17	20	19	19	22	20	18	21	19	15	19	17	17	20	19
40 to 50 Feet	14	14	14	15	15	15	12	11	12	13	14	13	16	16	16
50 to 60 Feet	10	8	9	10	7	8	8	6	7	10	8	9	12	10	11
60 to 70 Feet	5	3	4	4	2	3	4	2	3	6	4	5	6	4	5
70 to 80 Feet	3	1	2	2	1	1	2	1	1	3	2	3	3	2	2
80 to 90 Feet	1	1	1	1	0	0	1	1	1	2	1	1	2	1	1
90 to 100 Feet	1	0	1	1	0	0	1	0	1	1	1	1	1	0	1
above 100 Feet	9	3	6	5	2	3	10	3	7	13	4	9	6	2	4
Near height Feet	46	34	40	38	31	35	46	32	39	54	37	45	44	35	40

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			1			0			0			2			1
AVG station N			336			327			335			347			333
AVG station -N/Kft			14			13			14			15			13
AVG sfc wind kts	17	16	16	20	19	19	15	14	15	14	13	13	18	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45 00 N 25 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YK 45 00 N 16 00 W
Radiosonde station height: 39 Feet
Surface obs source: MS147 45 00 N 25 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	10	4	7	5	3	4	13	5	9	17	6	11	7	3	5
3 GHz	14	6	10	7	4	6	16	7	11	21	8	15	9	4	7
6 GHz	32	21	27	25	18	21	30	17	23	41	24	32	34	25	29
10 GHz	61	53	57	58	54	56	56	45	51	65	55	60	64	59	62
20 GHz	75	72	73	74	74	74	71	65	68	77	72	75	78	76	77

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	2	3	3	3	3	3	2	2	2	0	1	1
AVG thickness Kft			.29			.34			.21			.35			.28
AVG trap freq GHz			2.2			2.5			1.2			2.4			2.8
AVG lyr grd -N/Kft			129			98			83			118			224

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	15	15	12	10	11	12	14	13	20	22	21	17	15	16
AVG top ht Kft			4.5			4.4			4.0			4.7			4.9
AVG thickness kft			.40			.36			.41			.45			.38
AVG trap freq GHz			.52			.68			.57			.37			.49
AVG lyr grd -N/Kft			57			59			57			56			58
AVG lyr base Kft			4.2			4.2			3.6			4.4			4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	14	14	14	14	12	13	17	17	17	14	14	14	12	12	12
10 to 20 Feet	12	15	13	12	14	13	14	18	16	10	13	12	11	12	12
20 to 30 Feet	14	19	17	17	21	19	15	20	17	12	18	15	14	17	15
30 to 40 Feet	15	19	17	18	21	20	15	18	16	12	17	15	15	18	17
40 to 50 Feet	14	14	14	16	15	16	11	11	11	12	14	13	16	17	16
50 to 60 Feet	10	9	9	10	9	9	7	6	7	10	9	9	12	12	12
60 to 70 Feet	6	4	5	5	4	4	4	2	3	6	3	5	8	6	7
70 to 80 Feet	3	2	3	2	1	2	2	1	2	4	3	3	4	3	3
80 to 90 Feet	2	1	1	1	1	1	1	1	1	3	1	2	2	1	1
90 to 100 Feet	1	1	1	1	0	1	1	1	1	2	1	1	1	0	1
above 100 Feet	10	3	6	4	2	3	12	4	8	16	5	11	7	3	5
Mean height Feet	47	36	42	39	34	36	47	33	40	58	39	48	45	38	42

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			1			0			0			2			1
AVG station N			336			329			335			347			333
AVG station -N/Kft			14			12			14			15			13
AVG sfc wind Kts	17	16	16	21	19	20	15	14	15	14	13	13	19	17	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45 00 N 35 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YD 44 00 N 41 00 W
Radiosonde station height: 39 Feet
Surface obs source: M3148 45 60 N 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH CON RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	1	1	0	0	0	1	0	1	1	1	1
1 GHz	11	5	0	5	3	4	11	4	7	20	7	14	7	4	6
3 GHz	14	7	11	7	5	6	14	5	10	26	10	18	11	7	9
6 GHz	34	23	29	26	20	23	28	15	22	46	29	38	36	28	32
10 GHz	62	56	59	62	59	60	54	44	49	67	59	63	65	62	63
23 GHz	75	73	74	77	77	77	68	63	65	77	74	76	78	77	77

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	4	6	5	5	5	5	2	4	12	4	8	7	6	7
AVG thickness Kft			.26			.19			.23			.34			.26
AVG trap freq GHz			1.6			1.5			2.8			1.2			.90
AVG lyr grd -N/Kft			113			80			149			130			91

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	24	37	30	19	26	23	29	39	34	25	52	39	22	30	26
AVG top ht Kft			4.7			5.0			4.6			4.2			4.9
AVG thickness Kft			.43			.34			.43			.55			.40
AVG trap freq GHz			.39			.52			.38			.24			.41
AVG lyr grd -N/Kft			62			60			61			64			62
AVG lyr base Kft			4.4			4.7			4.3			3.8			4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	15	15	13	11	12	20	21	21	16	15	15	13	12	13
10 to 20 Feet	11	13	12	11	12	11	13	17	15	9	12	11	10	11	10
20 to 30 Feet	14	17	16	16	19	17	15	19	17	11	16	14	14	15	15
30 to 40 Feet	15	18	17	19	21	20	14	17	16	11	16	14	15	18	16
40 to 50 Feet	14	16	15	18	18	18	12	12	12	11	14	13	16	18	17
50 to 60 Feet	11	10	10	12	10	11	8	6	7	10	11	10	14	13	13
60 to 70 Feet	6	4	5	5	4	4	4	3	3	7	5	6	8	6	7
70 to 80 Feet	3	2	3	2	2	2	2	1	2	4	3	4	4	3	4
80 to 90 Feet	1	1	1	1	0	1	1	1	1	2	1	2	1	1	1
90 to 100 Feet	1	0	1	1	0	0	1	1	1	2	1	1	1	0	0
Above 100 Feet	8	3	5	3	1	2	10	3	6	15	5	10	4	1	3
Mean height Feet	45	36	40	38	34	33	43	31	37	57	41	49	42	37	39

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB ducts			1			1			1			2			1
% occur 2+ EL ducts			3			1			3			6			3
AVG station h			336			324			333			351			336
AVG station -N/Kft			15			13			14			17			14
AVG sfc wind Kts	18	17	18	23	22	22	16	15	16	14	13	14	21	19	20

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 44 00 N 41 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YD 44 00 N 41 00 W
Radiosonde station height: 39 Feet
Surface obs source: MS149 45 00 N 45 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	1	1	0	0	0	1	0	1	1	1	1
1 GHz	9	4	7	4	3	3	9	3	6	17	6	12	7	4	5
3 GHz	13	6	9	6	4	5	11	4	8	23	8	15	10	6	8
6 GHz	28	20	24	22	18	20	22	12	17	39	26	33	30	25	28
10 GHz	52	46	49	50	47	48	42	35	39	60	51	55	56	52	54
20 GHz	65	62	63	65	64	64	55	51	53	69	65	67	70	68	69

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	4	6	5	5	5	5	2	4	12	4	8	7	6	7
AVG thickness Kft			.26			.19			.23			.34			.26
AVG trap freq GHz			1.6			1.5			2.8			1.2			.90
AVG lyr grd -N/Kft			113			80			149			130			91

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	24	37	30	19	26	23	29	39	34	25	52	39	22	38	26
AVG top ht Kft			4.7			5.0			4.6			4.2			4.9
AVG thickness Kft			.43			.34			.43			.55			.48
AVG trap freq GHz			.39			.52			.38			.24			.41
AVG lyr grd -N/Kft			62			60			61			64			62
AVG lyr base Kft			4.4			4.7			4.3			3.8			4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	25	24	24	21	21	21	33	32	32	24	23	24	28	19	19
10 to 20 Feet	13	15	14	15	17	16	14	17	16	9	13	11	12	14	13
20 to 30 Feet	13	16	15	16	17	17	15	16	14	11	14	13	14	16	15
30 to 40 Feet	13	15	14	15	16	16	12	14	13	11	14	13	15	15	15
40 to 50 Feet	12	12	12	14	14	14	9	10	9	10	12	11	13	13	13
50 to 60 Feet	9	8	8	9	9	9	6	5	5	8	9	9	11	10	11
60 to 70 Feet	5	4	4	4	3	4	3	2	2	6	5	5	6	6	6
70 to 80 Feet	3	2	2	2	1	2	2	1	1	4	3	3	4	3	3
80 to 90 Feet	1	1	1	1	0	1	1	1	1	2	1	1	2	1	1
90 to 100 Feet	1	0	1	1	0	0	1	0	1	1	1	1	1	0	0
above 100 Feet	6	2	4	2	1	1	7	2	5	12	4	8	3	1	2
Mean height Feet	38	31	34	32	29	30	34	26	30	48	36	42	36	33	34

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			2			1
% occur 2+ EL dcts			3			1			3			6			3
AVG station N			336			324			333			351			336
AVG station -N/Kft			15			13			14			17			14
AVG sfc wind Kts	18	17	18	22	21	22	15	15	15	14	13	13	21	19	20

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 47 18 N 54 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72807 47 18 N 54 00 W
Radiosonde station height: 52 Feet
Surface obs source: MS150 45 00 N 55 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
1 GHz	7	3	5	2	1	1	7	2	5	15	8	11	3	2	3
3 GHz	9	5	7	3	2	2	10	4	7	20	11	15	5	4	5
6 GHz	23	18	20	12	10	11	19	11	15	36	28	32	24	22	23
10 GHz	42	40	41	30	31	30	34	29	32	54	52	53	49	48	49
20 GHz	54	54	54	44	46	45	44	42	43	63	63	63	65	65	65

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	2	2	1	1	1	4	1	3	5	6	6	0	1	1
AVG thickness Kft			.30			.12			.17			.36			.54
AVG trap freq GHz			1.8			1.9			4.3			.77			.38
AVG lyr grd -N/Kft			116			99			141			96			128

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	11	16	13	7	4	6	9	12	11	20	33	27	7	14	11
AVG top ht Kft			3.9			2.7			3.5			4.3			5.2
AVG thickness Kft			.31			.18			.39			.41			.26
AVG trap freq GHz			1.1			2.3			.73			.45			.94
AVG lyr grd -N/Kft			59			54			67			57			58
AVG lyr base Kft			3.7			2.5			3.2			4.0			5.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	31	29	30	32	30	31	43	42	42	29	27	28	20	19	19
10 to 20 Feet	16	17	17	25	24	24	15	16	16	10	11	11	14	15	15
20 to 30 Feet	12	14	13	14	15	14	10	13	11	16	12	13	16	17	16
30 to 40 Feet	10	13	12	10	12	11	8	10	9	9	13	11	14	15	15
40 to 50 Feet	9	10	9	8	9	8	7	7	7	9	13	10	11	11	11
50 to 60 Feet	7	7	7	5	5	5	5	4	5	7	9	8	9	9	9
60 to 70 Feet	4	4	4	2	2	2	3	2	2	6	5	6	6	6	5
70 to 80 Feet	3	2	2	1	1	1	2	1	1	4	3	4	3	3	3
80 to 90 Feet	1	1	1	1	0	1	1	1	1	3	1	2	1	1	1
90 to 100 Feet	1	0	1	0	0	0	1	0	1	2	1	1	1	1	1
above 100 Feet	6	2	4	1	1	1	6	2	4	12	5	9	3	2	2
Mean height Feet	34	29	31	24	23	24	29	23	26	46	36	41	36	33	34

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			2			0			1			4			1
AVG station N			322			310			319			341			317
AVG station -N/Kft			12			11			12			15			12
AVG sfc wind Kts	17	17	17	21	20	21	15	15	15	14	13	13	20	19	19

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 47 04 N 52 45 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72801 47 04 N 52 45 W
Radiosonde station height: 463 Feet
Surface obs source: MS150 45 00 N 55 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	6	3	5	2	1	1	7	2	4	14	6	10	5	2	3
3 GHz	9	4	7	3	1	2	9	3	6	19	9	14	5	5	5
6 GHz	22	17	20	12	9	11	18	11	15	36	26	31	24	22	23
10 GHz	41	39	40	30	30	30	33	29	31	53	50	52	49	48	49
20 GHz	53	53	53	43	45	44	43	41	42	63	62	62	65	65	65

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	1	1	1	0	1	1	0	1	4	3	4	0	2	1
AVG thickness Kft			.23			.15			.14			.36			.25
AVG trap freq GHz			1.8			3.7			.64			1.2			1.8
AVG lyr grd -N/Kft			250			205			380			79			306

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	26	23	7	14	11	20	23	22	33	35	34	19	31	25
AVG top ht Kft			3.3			2.3			3.7			3.9			3.3
AVG thickness Kft			.32			.19			.32			.37			.38
AVG trap freq GHz			.81			1.9			.53			.43			.41
AVG lyr grd -N/Kft			62			52			60			54			62
AVG lyr base Kft			3.1			2.1			3.5			3.7			3.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	31	29	30	32	30	31	43	42	42	29	27	28	20	19	19
10 to 20 Feet	16	17	17	25	24	24	15	16	16	10	11	11	14	16	15
20 to 30 Feet	12	14	13	14	15	14	10	13	11	16	12	11	16	17	16
30 to 40 Feet	10	13	12	10	12	11	8	10	9	9	13	11	14	15	15
40 to 50 Feet	9	10	9	8	9	8	7	7	7	9	12	10	11	11	11
50 to 60 Feet	7	7	7	5	5	5	5	4	5	7	9	8	9	9	9
60 to 70 Feet	4	4	4	2	2	2	3	2	2	6	5	6	6	6	6
70 to 80 Feet	3	2	2	1	1	1	2	1	1	4	3	4	3	3	3
80 to 90 Feet	1	1	1	1	0	1	1	1	1	3	1	2	1	1	1
90 to 100 Feet	1	0	1	0	0	0	1	0	1	2	1	1	1	1	1
above 100 Feet	6	2	4	1	1	1	6	2	4	12	5	9	3	2	2
Mean height Feet	34	29	31	24	23	24	29	23	26	46	36	41	36	33	34

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB ducts			9			8			8			11			9
% occur 2+ EL ducts			3			1			4			5			4
AVG station N			313			307			314			331			313
AVG station -N/Kft			13			12			12			15			12
AVG sfc wind Kts	17	17	17	21	20	21	15	15	15	14	13	13	20	19	19

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 48 31 N 58 33 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72815 48 31 N 58 33 W
Radiosonde station height: 197 Feet
Surface obs source: MS150 45 00 N 55 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0
1 GHz	4	3	5	2	1	1	7	4	5	13	7	10	3	2	2
3 GHz	9	5	7	3	2	2	9	6	7	18	10	14	5	3	4
6 GHz	22	15	20	12	10	11	18	14	16	35	27	31	24	21	22
10 GHz	41	40	41	30	31	30	33	32	32	53	51	52	49	48	48
20 GHz	53	54	54	43	46	45	43	44	43	62	63	63	65	64	65

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	3	2	1	1	1	1	5	3	3	5	4	0	0	0
AVG thickness Kft			.23			.17			.22			.26			.29
AVG trap freq GHz			1.5			2.8			1.6			1.3			.43
AVG lyr grd -N/Kft			156			222			117			88			197

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	16	15	4	4	4	10	13	12	29	32	31	14	15	15
AVG top ht Kft			4.5			3.3			5.0			5.1			4.5
AVG thickness Kft			.27			.20			.24			.35			.27
AVG trap freq GHz			1.0			1.6			1.2			.54			.72
AVG lyr grd -N/Kft			57			53			59			59			57
AVG lyr base Kft			4.3			3.1			4.8			4.9			4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	31	29	30	32	30	31	43	42	42	29	27	28	20	19	19
10 to 20 Feet	16	17	17	25	24	24	15	16	16	10	11	11	14	16	15
20 to 30 Feet	12	14	13	14	15	14	10	13	11	10	12	11	16	17	16
30 to 40 Feet	10	13	12	10	12	11	8	10	9	9	13	11	14	15	15
40 to 50 Feet	9	10	9	8	9	8	7	7	7	9	12	10	11	11	11
50 to 60 Feet	7	7	7	5	5	5	5	4	5	7	9	8	9	8	9
60 to 70 Feet	4	4	4	2	2	2	3	2	2	6	5	6	6	6	6
70 to 80 Feet	3	2	2	1	1	1	2	1	1	4	3	4	3	3	3
80 to 90 Feet	1	1	1	1	0	1	1	1	1	3	1	2	1	1	1
90 to 100 Feet	1	0	1	0	0	0	1	0	1	2	1	1	1	1	1
above 100 Feet	6	2	4	1	1	1	6	2	4	12	5	9	3	2	2
Mean height Feet	34	29	31	24	23	24	29	23	26	46	36	41	36	33	34

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			1			0			1			4			1
AVG station N			318			318			315			334			312
AVG station -N/Kft			12			11			12			14			11
AVG sfc wind kts	17	17	17	21	20	21	15	15	15	14	13	13	20	19	19

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 43 55 N 60 01 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72600 43 55 N 60 01 W
Radiosonde station height: 7 Feet
Surface obs source: MS151 45 00 N 65 60 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	0	0	0	1	0	1	2	2	2	0	0	0
1 GHz	9	6	7	2	2	2	11	5	8	18	15	16	4	3	3
3 GHz	11	8	10	3	2	3	14	8	11	22	19	21	5	5	5
6 GHz	20	17	19	9	7	8	21	15	18	33	31	32	18	17	17
10 GHz	38	35	36	25	23	24	31	27	29	48	47	47	46	43	45
20 GHz	51	50	50	42	42	42	41	37	39	57	58	57	65	62	64

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	5	5	2	1	2	7	4	6	11	14	13	0	2	1
AVG thickness Kft			.34			.20			.32			.49			.35
AVG trap freq GHz			1.1			2.2			1.2			.52			.64
AVG lyr grd -N/Kft			107			120			105			94			108

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	27	24	13	15	14	16	23	20	32	43	38	23	27	25
AVG top ht Kft			3.7			3.3			3.1			4.3			4.1
AVG thickness Kft			.33			.23			.35			.41			.32
AVG trap freq GHz			.61			1.0			.46			.38			.60
AVG lyr grd -N/Kft			61			59			64			61			58
AVG lyr base Kft			3.5			3.1			2.9			4.0			3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	34	34	34	31	31	31	48	48	48	38	36	37	19	21	20
10 to 20 Feet	17	19	18	27	27	27	16	18	17	11	12	11	15	17	16
20 to 30 Feet	14	15	15	17	18	18	10	10	10	10	12	11	19	20	19
30 to 40 Feet	11	11	11	11	11	11	7	8	7	8	11	9	17	16	16
40 to 50 Feet	7	7	7	6	5	5	4	5	4	7	8	8	12	10	11
50 to 60 Feet	5	5	5	3	3	3	3	3	3	6	6	5	7	7	7
60 to 70 Feet	3	3	3	1	1	1	2	2	2	4	4	4	4	4	4
70 to 80 Feet	2	1	2	1	0	1	1	1	1	2	2	2	2	2	2
80 to 90 Feet	1	1	1	0	0	0	1	1	1	2	1	1	1	1	1
90 to 100 Feet	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1
above 100 Feet	6	3	5	2	1	2	8	4	6	11	6	9	4	2	3
Mean height Feet	31	27	29	23	21	22	28	22	25	39	32	36	34	31	33

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SD dcts			1			0			0			3			1
% occur 2+ EL dcts			2			0			2			9			2
AVG station N			327			314			324			347			321
AVG station -N/Kft			14			12			14			17			12
AVG sfc wind Kts	16	16	16	20	19	20	14	14	14	12	12	12	18	17	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 43 43 N 35 15 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 74389 43 43 N 65 15 W
Radiosonde station height: 92 feet
Surface obs source: MSIC1 45 00 N 39 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	*	*	*	1	0	0	1	1	1	0	0	0
1 GHz	11	5	8	*	*	*	11	4	7	15	8	12	5	3	4
3 GHz	14	7	10	*	*	*	14	5	10	19	11	15	7	5	6
6 GHz	24	17	21	*	*	*	21	12	17	30	23	27	20	17	19
10 GHz	42	36	39	*	*	*	32	24	28	45	41	43	48	43	46
20 GHz	53	50	52	*	*	*	41	33	33	55	53	54	66	62	64

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	2	3	0	0	0	7	2	4	7	4	6	3	3	3
AVG thickness Kft			.39			*			.43			.46			.47
AVG trap freq GHz			.82			*			.91			.87			.88
AVG lyr grd -M/Kft			129			*			102			84			209

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	24	24	24	10	10	10	20	25	23	37	38	38	27	24	26
AVG top ht Kft			4.8			*			5.0			5.7			3.9
AVG thickness Kft			.36			.32			.34			.43			.34
AVG trap freq GHz			.50			.54			.59			.32			.56
AVG lyr grd -M/Kft			60			*			55			65			59
AVG lyr base Kft			4.2			3.2			4.7			5.4			3.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	34	34	34	31	31	31	48	48	48	38	36	37	19	21	20
10 to 20 Feet	17	19	18	27	27	27	16	18	17	11	12	11	15	17	16
20 to 30 Feet	14	15	15	17	18	18	10	10	10	18	12	11	19	20	19
30 to 40 Feet	11	11	11	11	11	11	7	8	7	8	11	9	17	16	16
40 to 50 Feet	7	7	7	6	5	5	4	5	4	7	8	8	12	10	11
50 to 60 Feet	5	5	5	3	3	3	3	3	3	6	6	6	7	7	7
60 to 70 Feet	3	3	3	1	1	1	2	2	2	4	4	4	4	4	4
70 to 80 Feet	2	1	2	1	0	1	1	1	1	2	2	2	2	2	2
80 to 90 Feet	1	1	1	0	0	0	1	1	1	2	1	1	1	1	1
90 to 100 Feet	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1
above 100 Feet	6	3	5	2	1	2	8	4	6	11	6	9	4	2	3
Mean height Feet	31	27	29	23	21	22	28	22	25	39	32	36	34	31	33

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			1			3			1
% occur 2+ EL dcts			5			1			4			11			3
AVG station H			324			311			323			344			317
AVG station -N/Kft			13			11			12			15			12
AVG sfc wind Kts	16	16	16	20	19	20	14	14	14	12	12	12	18	17	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 42 55 N 78 43 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72528 42 55 N 78 43 W
Radiosonde station height: 715 Feet
Surface obs source: KSYR 35 00 N 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	0	0	0	1	1	1	1	2	1	0	0	0
1 GHz	21	13	15	11	5	8	24	12	18	30	15	23	17	6	12
3 GHz	31	23	25	20	11	16	33	19	26	40	24	32	32	17	25
6 GHz	64	54	59	57	49	53	55	49	52	69	59	64	70	60	65
10 GHz	82	73	80	79	75	77	75	72	74	85	82	83	87	83	85
20 GHz	88	86	87	86	84	85	82	81	81	93	88	90	92	90	91

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	6	6	3	2	3	9	9	9	8	12	10	3	1	2
AVG thickness Kft			.25			.18			.29			.33			.21
AVG trap freq GHz			1.8			3.0			1.1			.77			2.3
AVG lyr grd -N/Kft			96			130			74			79			100

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	20	20	8	9	9	19	17	18	36	33	35	19	19	19
AVG top ht Kft			5.3			4.3			6.1			6.2			4.6
AVG thickness Kft			.28			.24			.26			.34			.29
AVG trap freq GHz			.78			1.0			.77			.56			.83
AVG lyr grd -N/Kft			58			59			58			59			55
AVG lyr base Kft			5.1			4.1			5.9			5.9			4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	9	9	10	10	10	15	14	15	7	7	7	5	6	6
10 to 20 Feet	4	6	5	5	6	6	5	7	6	4	6	5	3	5	4
20 to 30 Feet	6	8	7	7	9	8	7	9	8	6	8	7	5	7	6
30 to 40 Feet	8	11	9	10	12	11	8	11	9	7	11	9	7	9	8
40 to 50 Feet	11	14	12	12	14	13	10	13	12	10	15	12	10	14	12
50 to 60 Feet	12	15	13	13	14	14	10	13	12	12	16	14	13	15	14
60 to 70 Feet	12	13	12	13	13	13	9	10	10	11	13	12	13	15	14
70 to 80 Feet	10	10	10	11	10	10	8	8	8	8	9	9	13	12	13
80 to 90 Feet	6	5	6	6	4	5	5	4	4	5	4	5	9	7	8
90 to 100 Feet	4	3	3	3	2	3	3	2	3	4	3	3	5	4	5
above 100 Feet	19	7	13	10	4	7	21	8	14	27	9	18	16	6	11
Mean height Feet	71	54	62	59	50	54	69	51	60	84	57	70	72	58	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SS dcts			1			1			1			3			0
% occur 2+ EL dcts			2			1			2			5			2
AVG station N			316			305			316			332			309
AVG station -N/Kft			12			11			12			14			11
AVG sfc wind Kts	15	15	15	18	18	18	14	14	14	12	12	12	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 41 40 N 69 58 W (*) INDICATES INSUFFICIENT DATA
Radioso de source : 74494 41 40 N 69 58 W
Radiosonde station height: 52 Feet
Surface obs source: MS151 45 00 N 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	2	2	0	0	0	2	2	2	5	5	5	1	1	1
1 GHz	14	10	12	4	3	4	15	11	13	29	22	25	7	5	6
3 GHz	17	14	16	5	5	5	20	15	17	34	28	31	10	8	9
6 GHz	26	23	25	11	10	10	27	23	25	45	38	41	23	20	22
10 GHz	42	40	41	27	26	26	37	34	36	57	53	55	50	46	48
20 GHz	55	54	54	43	44	44	46	44	45	64	63	63	67	64	66

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	13	13	5	5	5	15	15	15	26	25	25	8	8	8
AVG thickness Kft			.30			.23			.29			.46			.24
AVG trap freq GHz			1.1			1.8			.94			.35			1.4
AVG lyr grd -N/Kft			83			91			75			79			88

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	37	35	36	17	24	21	40	34	37	49	47	48	41	33	37
AVG top ht Kft			4.1			3.1			4.1			5.6			3.6
AVG thickness Kft			.38			.28			.36			.49			.41
AVG trap freq GHz			.47			.80			.44			.28			.39
AVG lyr grd -N/Kft			61			63			58			63			61
AVG lyr base Kft			3.8			2.9			3.8			5.3			3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	34	34	34	31	31	31	48	48	48	38	36	37	19	21	20
10 to 20 Feet	17	19	18	27	27	27	16	18	17	11	12	11	15	17	16
20 to 30 Feet	14	15	15	17	18	18	10	10	10	10	12	11	19	20	19
30 to 40 Feet	11	11	11	11	11	11	7	8	7	8	11	9	17	16	16
40 to 50 Feet	7	7	7	6	5	5	4	5	4	7	8	8	12	10	11
50 to 60 Feet	5	5	5	3	3	3	3	3	3	6	6	6	7	7	7
60 to 70 Feet	3	3	3	1	1	1	2	2	2	4	4	4	4	4	4
70 to 80 Feet	2	1	2	1	0	1	1	1	1	2	2	2	2	2	2
80 to 90 Feet	1	1	1	0	0	0	1	1	1	2	1	1	1	1	1
90 to 100 Feet	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1
above 100 Feet	6	3	5	2	1	2	8	4	6	11	6	9	4	2	3
Mean height Feet	31	27	29	23	21	22	28	22	25	39	32	36	34	31	33

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SE duct			3			1			3			8			2
% occur 2+ EL duct			5			1			7			8			3
AVG station ht			330			315			331			352			320
AVG station -N/Kft			14			12			15			18			13
AVG sfc wind kts	16	16	16	20	19	20	14	14	14	12	12	12	18	17	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 41 18 N 70 06 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72506 41 18 N 70 06 W
Radiosonde station height: 46 Feet
Surface obs source: MS151 45 00 N 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	2	2	0	0	0	2	2	2	5	6	5	1	1	1
1 GHz	13	10	12	2	2	2	16	10	13	26	25	26	7	4	6
3 GHz	16	13	15	3	2	3	21	13	17	32	32	32	10	6	8
6 GHz	25	22	24	8	8	8	28	21	24	42	42	42	23	18	20
10 GHz	42	39	40	24	23	24	37	32	35	55	56	55	50	44	47
20 .z	54	53	54	41	42	42	46	42	44	62	65	64	67	63	65

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	11	11	1	1	1	15	11	13	23	28	26	7	4	6
AVG thickness Kft			.39			.26			.41			.51			.38
AVG trap freq GHz			.69			.80			.62			.38			1.0
AVG lyr grd -N/Kft			84			101			78			72			86

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	24	27	25	16	16	16	21	21	21	34	42	38	26	27	27
AVG top ht Kft			3.2			2.8			2.2			3.7			4.1
AVG thickness Kft			.37			.26			.41			.42			.39
AVG trap freq GHz			.49			.78			.44			.37			.37
AVG lyr grd -N/Kft			59			58			57			61			62
AVG lyr base Kft			2.9			2.6			1.9			3.4			3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	34	34	34	31	31	31	48	48	48	38	36	37	19	21	20
10 to 20 Feet	17	19	18	27	27	27	16	18	17	11	12	11	15	17	16
20 to 30 Feet	14	15	15	17	18	18	10	10	10	10	12	11	19	20	19
30 to 40 Feet	11	11	11	11	11	11	7	8	7	8	11	9	17	16	16
40 to 50 Feet	7	7	7	6	5	5	4	5	4	7	8	8	12	10	11
50 to 60 Feet	5	5	5	3	3	3	3	3	3	6	6	6	7	7	7
60 to 70 Feet	3	3	3	1	1	1	2	2	2	4	4	4	4	4	4
70 to 80 Feet	2	1	2	1	0	1	1	1	1	2	2	2	3	2	2
80 to 90 Feet	1	1	1	0	0	0	1	1	1	2	1	1	1	1	1
90 to 100 Feet	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1
above 100 Feet	6	3	5	2	1	2	5	4	6	11	6	9	4	2	3
Mean height Feet	31	27	29	23	21	22	28	22	25	32	32	36	34	31	33

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			0			1			8			1
% occur 2+ EL dcts			4			1			3			9			4
AVG station N			330			313			329			354			323
AVG station -N/Kft			15			12			15			19			13
AVG sfc wind Kts	16	16	16	20	19	20	14	14	14	12	12	12	18	17	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 40 39 N 73 46 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 74486 40 39 N 73 46 W
Radiosonde station height: 26 Feet
Surface obs source: MS116 35 00 N 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	0	0	0	0	0	0	1	2	1	0	0	0
1 GHz	20	9	14	11	5	8	22	10	16	30	15	23	17	6	11
3 GHz	30	17	24	20	12	16	31	16	24	40	23	31	31	17	24
6 GHz	63	53	58	57	49	53	57	47	52	69	58	63	69	60	64
10 GHz	81	77	79	79	75	77	74	70	72	85	82	83	87	83	85
20 GHz	87	86	86	86	84	85	81	80	80	90	89	90	92	90	91

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	4	4	2	2	2	4	4	4	7	10	9	1	1	1
AVG thickness Kft			.28			.25			.30			.39			.20
AVG trap freq GHz			1.2			1.4			1.0			.56			1.9
AVG lyr grd -N/Kft			109			97			91			81			107

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	21	21	10	8	9	20	18	19	35	37	36	20	21	21
AVG top ht Kft			5.5			5.0			5.3			6.4			5.4
AVG thickness Kft			.35			.25			.39			.44			.33
AVG trap freq GHz			.70			1.3			.50			.36			.62
AVG lyr grd -N/Kft			55			52			57			56			55
AVG lyr base Kft			5.2			4.8			4.9			6.0			5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	9	9	10	10	10	15	14	15	7	7	7	5	6	6
10 to 20 Feet	4	6	5	5	6	6	5	7	6	4	6	5	3	5	4
20 to 30 Feet	6	8	7	7	9	8	7	9	8	6	8	7	5	7	6
30 to 40 Feet	8	11	9	10	12	11	8	11	9	7	11	9	7	9	8
40 to 50 Feet	11	14	12	12	14	13	10	13	12	10	15	12	10	14	12
50 to 60 Feet	12	15	13	13	14	14	10	13	12	12	16	14	13	15	14
60 to 70 Feet	12	13	12	13	13	13	9	10	10	11	13	12	13	15	14
70 to 80 Feet	10	10	10	11	10	10	8	8	8	8	9	9	13	12	13
80 to 90 Feet	6	5	6	6	4	5	5	4	4	5	4	5	9	7	8
90 to 100 Feet	4	3	3	3	2	3	3	2	3	4	3	3	6	4	5
Above 100 Feet	19	7	13	10	4	7	21	8	14	27	9	18	16	6	11
Mean height Feet	71	54	62	59	50	54	69	51	60	84	57	70	72	58	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL=SB dcts			1			0			1			2			0
% occur 2+ EL dcts			3			1			2			8			3
AVG station N			324			309			325			348			313
AVG station -N/Kft			12			10			12			15			11
AVG sfc wind Kts	15	15	15	18	18	18	14	14	14	12	12	12	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 43 39 N 70 19 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72606 43 39 N 70 19 W
Radiosonde station height: 66 Feet
Surface obs source: MS151 45 03 N 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	0	0	0	1	1	1	2	2	2	0	1	0
1 GHz	10	6	8	2	2	2	13	6	10	18	14	16	5	4	5
3 GHz	13	9	11	2	3	3	17	9	13	23	18	21	7	6	7
6 GHz	22	18	20	8	8	8	24	16	20	35	30	33	20	18	19
10 GHz	39	36	37	24	24	24	35	28	31	49	47	48	48	44	46
20 GHz	52	50	51	41	42	42	44	38	41	58	58	58	66	63	65

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	7	8	1	2	2	13	6	10	15	15	15	3	5	4
AVG thickness Kft			.26			.18			.25			.32			.28
AVG trap freq GHz			1.4			1.9			1.5			.88			1.5
AVG lyr grd -N/Kft			96			99			124			88			95

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	20	20	10	9	10	18	18	18	35	37	36	19	17	18
AVG top ht Kft			5.6			4.1			6.3			6.8			5.1
AVG thickness Kft			.29			.26			.30			.34			.27
AVG trap freq GHz			.68			.68			.73			.53			.79
AVG lyr grd -N/Kft			63			65			62			60			64
AVG lyr base Kft			5.4			3.9			6.1			6.5			5.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	34	34	34	31	31	31	48	48	48	38	36	37	19	21	20
10 to 20 Feet	17	19	18	27	27	27	16	18	17	11	12	11	15	17	16
20 to 30 Feet	14	15	15	17	18	18	10	10	10	10	12	11	19	20	19
30 to 40 Feet	11	11	11	11	11	11	7	8	7	8	11	9	17	16	16
40 to 50 Feet	7	7	7	6	5	5	4	5	4	7	8	8	12	10	11
50 to 60 Feet	5	5	5	3	3	3	3	3	3	6	6	6	7	7	7
60 to 70 Feet	3	3	3	1	1	1	2	2	2	4	4	4	4	4	4
70 to 80 Feet	2	1	2	1	0	1	1	1	1	2	2	2	2	2	2
80 to 90 Feet	1	1	1	0	0	0	1	1	1	2	1	1	1	1	1
90 to 100 Feet	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1
above 100 Feet	6	3	5	2	1	2	8	4	6	11	6	9	4	2	3
Mean height Feet	31	27	29	23	21	22	28	22	25	39	32	36	34	31	33

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			1			4			1
% occur 2+ EL dcts			3			1			2			6			2
AVG station N			323			310			322			342			316
AVG station -N/Kft			13			11			12			16			12
AVG sfc wind Kts	16	16	16	20	19	20	14	14	14	12	12	12	18	17	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 41 46 N 87 45 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72534 41 46 N 87 45 W
Radiosonde station height: 617 Feet
Surface obs source: MSI16 35 00 N 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	0	0	0	1	0	1	1	0	0	0	0	0
1 GHz	21	7	14	11	4	7	25	8	17	30	9	19	17	6	11
3 GHz	31	14	23	20	11	15	35	14	24	40	16	28	32	17	24
6 GHz	64	52	58	57	48	53	60	45	53	69	54	61	70	59	65
10 GHz	82	76	79	79	74	77	76	69	73	85	80	82	87	83	85
20 GHz	88	85	86	86	84	85	82	79	81	90	88	89	92	90	91

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	0	4	2	0	1	14	0	7	9	0	5	4	0	2
AVG thickness Kft			.16			.12			.21			.20			.10
AVG trap freq GHz			2.4			2.5			1.5			1.6			4.0
AVG lyr grd -M/Kft			104			79			119			90			129

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	36	0	18	18	0	9	26	0	13	61	6	31	37	0	19
AVG top ht Kft			3.9			3.6			3.9			4.7			3.4
AVG thickness kft			.36			.25			.37			.47			.35
AVG trap freq GHz			.56			1.2			.44			.27			.36
AVG lyr grd -M/Kft			66			66			63			63			71
AVG lyr base Kft			3.6			3.5			3.6			4.3			3.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	9	9	10	10	10	15	14	15	7	7	7	5	6	6
10 to 20 Feet	4	6	5	5	6	6	5	7	6	4	6	5	3	5	4
20 to 30 Feet	6	8	7	7	9	8	7	9	8	6	8	7	5	7	6
30 to 40 Feet	8	11	9	10	12	11	8	11	9	7	11	9	7	9	8
40 to 50 Feet	11	14	12	12	14	13	10	13	12	10	15	12	10	14	12
50 to 60 Feet	12	15	13	13	14	14	10	13	12	12	16	14	13	15	14
60 to 70 Feet	12	12	12	12	13	13	9	10	10	11	13	12	13	13	14
70 to 80 Feet	10	10	10	11	10	10	8	8	8	8	9	9	12	12	13
80 to 90 Feet	5	5	6	6	4	5	5	5	4	5	4	5	6	7	6
90 to 100 Feet	4	3	3	3	2	3	3	2	2	4	3	3	5	4	5
above 100 Feet	19	7	13	10	4	7	21	8	14	27	9	18	16	6	11
Mean Height Feet	71	54	62	59	50	54	69	51	60	84	57	70	72	56	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SD dcts			3			1			5			7			2
% occur 2+ EL dcts			5			0			4			13			3
AVG station N			320			309			320			338			311
AVG station -M/Kft			13			12			13			14			13
AVG sfc wind Kts	15	15	15	18	18	18	14	14	14	12	12	12	16	16	16

IREPS REV 2.1 HISTOPICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 46 2b N 84 22 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72734 46 28 N 84 22 W
Radiosonde station height: 725 Feet
Surface obs source: MSI16 35 00 N 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
1 GHz	20	8	14	10	4	7	22	9	16	29	13	21	17	6	11
3 GHz	30	16	23	19	11	15	30	16	23	38	20	29	31	17	24
6 GHz	53	53	58	57	48	52	57	46	52	68	57	62	69	60	65
10 GHz	81	77	79	79	74	76	74	70	72	85	81	83	87	83	85
20 GHz	87	85	86	86	84	85	81	79	80	90	88	89	92	90	91

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	3	3	1	0	1	4	3	4	5	7	6	2	1	2
AVG thickness Kft			.23			.13			.25			.35			.18
AVG trap freq GHz			2.2			3.5			1.6			.77			2.9
AVG lyr grd -N/Kft			116			149			123			68			133

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	14	14	6	6	6	11	11	11	31	23	27	13	14	14
AVG top ht Kft			4.8			4.0			5.6			5.4			4.2
AVG thickness Kft			.20			.22			.26			.29			.25
AVG trap freq GHz			1.0			1.5			1.0			.44			1.2
AVG lyr grd -N/Kft			58			68			57			58			58
AVG lyr base Kft			4.6			3.8			5.4			5.1			3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	9	9	10	10	10	15	14	15	7	7	7	5	6	6
10 to 20 Feet	4	6	5	5	6	6	5	7	6	4	6	5	3	5	4
20 to 30 Feet	6	8	7	7	9	8	7	9	8	6	8	7	5	7	6
30 to 40 Feet	8	11	9	10	12	11	8	11	9	7	11	9	7	9	8
40 to 50 Feet	11	14	12	12	14	13	10	13	12	10	15	12	10	14	12
50 to 60 Feet	12	15	13	13	14	14	10	13	12	13	16	14	12	15	14
60 to 70 Feet	12	13	12	13	13	13	9	10	10	11	13	12	13	15	14
70 to 80 Feet	10	10	10	11	10	10	8	5	8	8	9	9	13	12	13
80 to 90 Feet	6	5	6	6	4	5	5	4	4	5	4	5	9	7	8
90 to 100 Feet	4	3	3	3	2	3	3	2	3	4	3	3	5	4	5
above 100 Feet	19	7	13	10	4	7	21	6	14	27	9	18	16	6	11
Mean height Feet	71	54	62	59	50	54	69	51	60	84	57	70	72	58	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&2B dcts			0			0			1			1			0
% occur 2+ EL dcts			2			0			1			3			2
AVG station N			313			385			311			327			303
AVG station -N/Kft			12			11			12			14			11
AVG sfc wind Kts	15	15	15	19	18	18	14	14	14	12	12	12	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 47 27 N 122 18 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72793 47 27 N 122 18 W
Radiosonde station height: 427 Feet
Surface obs source: MS157 45 00 N 125 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESK-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG thickness Kft			*			*			*			*			*
AVG trap freq GHz			*			*			*			*			*
AVG lyr grd -N/Kft			*			*			*			*			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	29	19	0	10	5	33	48	37	0	36	18	0	29	15
AVG top ht Kft			5.8			*			5.9			5.7			*
AVG thickness Kft			.29			.24			.22			.37			.32
AVG trap freq GHz			.89			1.2			1.1			.66			.58
AVG lyr grd -N/Kft			58			*			58			58			*
AVG lyr base Kft			5.1			4.1			5.7			5.1			5.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	27	26	26	25	26	25	26	24	25	33	31	32	25	23	25
10 to 20 Feet	18	22	20	22	26	24	18	23	21	15	18	16	18	22	20
20 to 30 Feet	18	22	20	20	23	22	16	22	19	14	19	17	20	23	22
30 to 40 Feet	13	14	14	14	14	14	13	15	14	10	13	11	15	15	15
40 to 50 Feet	7	6	6	6	5	6	6	6	6	6	6	6	8	7	8
50 to 60 Feet	4	3	3	3	2	3	4	2	3	4	3	3	5	3	4
60 to 70 Feet	2	1	2	2	1	1	2	1	2	2	1	2	2	1	2
70 to 80 Feet	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1
80 to 90 Feet	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1
90 to 100 Feet	1	0	1	1	0	0	1	0	1	1	1	1	1	0	0
above 100 Feet	9	4	6	5	3	4	12	4	8	13	6	9	7	3	5
Mean height Feet	36	27	32	29	25	27	41	28	35	40	29	34	34	27	30

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			1			0			1			2			0
AVG station N			134			103			103			330			0
AVG station -N/Kft			4.9			3.6			4.0			12			.29
AVG sfc wind Kts	15	15	15	17	16	17	14	14	14	13	12	12	17	16	16

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 48 24 N 124 42 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72798 48 24 N 124 42 W
Radiosonde station height: 85 Feet
Surface obs source: MS157 45 00 N 125 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
100 MHz	2	0	1	*	*	*	3	0	2	2	0	1	*	*	*
1 GHz	20	6	13	*	*	*	22	5	15	18	7	12	*	*	*
3 GHz	25	8	16	*	*	*	27	6	17	23	9	16	*	*	*
6 GHz	34	12	23	*	*	*	36	18	23	32	14	23	*	*	*
10 GHz	49	32	41	*	*	*	52	31	42	47	33	40	*	*	*
20 GHz	63	53	58	*	*	*	66	53	59	60	52	56	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	21	3	12	*	*	*	22	2	12	20	3	12	*	*	*
AVG thickness Kft			.28			*			.35			.21			*
AVG trap freq GHz			2.2			*			.92			3.6			*
AVG lyr grd -M/Kft			116			*			105			127			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	12	24	18	*	*	*	8	21	15	16	27	22	*	*	*
AVG top ht Kft			2.7			*			2.6			2.8			*
AVG thickness Kft			.26			*			.25			.28			*
AVG trap freq GHz			1.4			*			1.9			.85			*
AVG lyr grd -M/Kft			58			*			58			57			*
AVG lyr base Kft			2.5			*			2.4			2.6			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
0 to 10 Feet	27	26	26	26	26	25	26	24	25	33	31	32	23	23	23
10 to 20 Feet	18	22	20	22	26	24	18	23	21	15	18	16	18	22	20
20 to 30 Feet	18	22	20	20	23	22	16	22	19	14	19	17	20	23	22
30 to 40 Feet	13	14	14	14	14	14	13	15	14	10	13	11	15	15	15
40 to 50 Feet	7	6	6	6	5	6	6	6	6	6	6	6	8	7	8
50 to 60 Feet	4	3	3	3	2	3	4	2	3	4	3	3	5	3	4
60 to 70 Feet	2	1	2	2	1	1	2	1	2	2	1	2	2	1	2
70 to 80 Feet	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1
80 to 90 Feet	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1
90 to 100 Feet	1	1	1	1	0	0	1	0	1	1	1	1	1	0	0
above 100 Feet	9	4	6	5	3	4	12	4	8	13	6	9	7	3	5
Mean height Feet	36	27	32	29	25	27	41	28	35	40	29	35	34	27	30

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			1			0			1			2			0
AVG station N			333			*			329			337			*
AVG station -N/Kft			16			*			15			18			*
AVG sfc wind Kts	15	13	15	17	16	17	14	14	14	13	12	12	17	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45 00 N 135 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source :-74109 50 40 N 127 22 W
Radiosonde station height: 75 Feet
Surface obs source: MS153 43 00 N 133 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
100 MHz	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
1 GHz	9	3	6	4	1	3	12	4	8	16	5	10	5	2	3
3 GHz	11	4	7	5	1	3	15	5	10	18	7	13	6	2	4
6 GHz	20	9	15	10	4	7	22	9	15	29	14	22	17	10	14
10 GHz	43	37	40	34	29	31	42	32	37	49	42	45	48	45	46
20 GHz	61	60	60	55	52	54	58	55	56	64	64	64	66	67	66

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	4	2	3	3	1	2	5	2	4	5	2	4	2	1	2
AVG thickness Kft			.26			.26			.31			.29			.20
AVG trap freq GHz			1.3			1.3			1.0			.91			1.8
AVG lyr grd -M/Kft			86			89			89			95			71

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	7	13	10	3	5	4	5	11	8	13	27	20	5	8	7
AVG top ht Kft			4.8			3.7			4.9			4.4			6.0
AVG thickness Kft			.27			.23			.26			.31			.27
AVG trap freq GHz			.87			1.0			.91			.63			1.0
AVG lyr grd -M/Kft			59			59			57			56			64
AVG lyr base Kft			4.6			3.6			4.7			4.2			5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
0 to 10 Feet	25	21	23	27	25	26	27	23	25	25	19	22	20	17	18
10 to 20 Feet	16	20	18	19	22	21	17	23	20	13	18	16	15	16	15
20 to 30 Feet	18	23	21	22	25	23	17	23	20	15	22	19	18	22	20
30 to 40 Feet	15	19	17	16	18	17	14	18	16	13	18	15	19	22	21
40 to 50 Feet	9	8	8	7	6	6	7	6	6	8	10	9	12	12	12
50 to 60 Feet	5	4	4	3	2	2	4	2	3	5	5	5	7	6	7
60 to 70 Feet	2	1	2	1	1	1	2	1	2	3	2	3	3	2	2
70 to 80 Feet	1	1	1	1	0	0	1	1	1	2	1	2	1	1	1
80 to 90 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	0
90 to 100 Feet	1	0	0	0	0	0	1	0	1	1	1	1	0	0	0
above 100 Feet	8	2	5	3	1	2	10	3	6	13	4	9	4	1	3
Mean height Feet	36	27	32	27	22	24	37	26	32	45	31	38	34	29	31

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
% occur EL&SB dcts			0			0			0			1			6
% occur 2+ EL dcts			:			0			0			3			0
AVG station N			324			317			323			334			332
AVG station -M/Kft			13			12			13			14			12
AVG sfc wind Kts	17	17	17	20	19	20	16	15	15	14	13	14	20	19	19

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45 00 N 145 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YP 50 00 N 145 00 W
Radiosonde station height: 39 Feet
Surface obs source: MS159 45 00 N 145 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	6	3	4	2	1	2	9	3	6	11	4	7	4	2	3
3 GHz	8	3	5	3	2	2	11	3	7	12	6	9	5	2	3
6 GHz	15	8	11	7	4	6	16	6	11	21	12	17	14	9	12
10 GHz	36	31	34	29	24	27	34	25	30	40	35	37	43	40	41
20 GHz	54	53	54	49	49	49	50	47	48	54	54	54	63	61	62

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	2	3	3	4	1	3	1	2	2	1	2	2
AVG thickness Kft			.21			.16			.13			.39			.14
AVG trap freq GHz			2.4			3.6			3.0			.66			2.4
AVG lyr grd -N/Kft			157			145			162			93			227

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	10	10	10	10	10	5	7	6	13	16	15	8	8	8
AVG top ht Kft			4.0			3.4			4.5			*			4.1
AVG thickness Kft			.38			.27			.26			.36			.29
AVG trap freq GHz			.84			.80			1.2			.51			.81
AVG lyr grd -N/Kft			63			63			63			*			62
AVG lyr base Kft			3.9			3.2			4.3			4.1			3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	29	26	27	29	27	28	33	29	31	31	27	29	22	22	22
10 to 20 Feet	18	21	19	22	25	23	19	25	22	15	18	17	15	17	16
20 to 30 Feet	18	22	20	20	25	22	16	22	19	15	20	17	20	22	21
30 to 40 Feet	15	17	16	16	16	16	13	15	14	12	15	13	19	20	19
40 to 50 Feet	7	7	7	6	5	5	5	4	5	8	8	8	10	10	10
50 to 60 Feet	4	3	4	2	1	2	3	2	2	5	4	4	6	5	5
60 to 70 Feet	2	1	1	1	0	1	1	1	1	2	2	2	3	2	2
70 to 80 Feet	1	1	1	1	0	0	1	1	1	2	1	1	1	1	1
80 to 90 Feet	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0
90 to 100 Feet	1	0	0	0	0	0	1	0	0	1	1	1	0	0	0
above 100 Feet	6	2	4	2	1	1	8	2	5	10	3	7	3	1	2
Mean height Feet	31	25	28	24	21	22	32	23	27	37	28	33	31	27	29

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			1			0			0			2			0
AVG station N			323			315			323			334			318
AVG station -N/Kft			13			12			13			15			13
AVG sfc wind kts	18	19	18	21	21	21	17	16	16	14	14	14	21	20	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45 00 N 155 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YP 50 00 N 145 00 W
Radiosonde station height: 39 Feet
Surface obs source: MS160 45 00 N 155 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	6	2	4	3	1	2	8	2	5	9	4	6	3	1	2
3 GHz	7	3	5	3	2	3	10	3	7	11	5	8	4	2	3
6 GHz	13	7	10	7	4	5	15	6	11	17	10	14	13	9	11
10 GHz	33	28	31	27	22	25	31	23	27	33	31	32	41	38	39
20 GHz	50	50	50	48	46	47	46	43	45	46	49	47	61	61	61

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	2	3	3	4	1	3	1	2	2	1	2	2
AVG thickness Kft			.21			.16			.13			.39			.14
AVG trap freq GHz			2.4			3.6			3.8			.66			2.4
AVG lyr grd -N/Kft			157			145			162			93			227

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	10	10	10	10	10	5	7	6	13	16	15	8	8	8
AVG top ht Kft			4.0			3.4			4.5			*			4.1
AVG thickness Kft			.30			.27			.26			.36			.28
AVG trap freq GHz			.84			.80			1.2			.51			.81
AVG lyr grd -N/Kft			63			63			63			*			62
AVG lyr base Kft			3.9			3.2			4.3			4.1			3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	32	29	30	31	29	30	36	33	34	28	33	35	23	22	22
10 to 20 Feet	19	22	20	22	26	24	20	25	22	16	19	17	16	17	17
20 to 30 Feet	18	22	20	21	24	22	16	21	18	13	18	16	21	23	22
30 to 40 Feet	13	15	14	15	14	14	11	13	12	10	13	12	18	19	19
40 to 50 Feet	7	6	7	6	5	5	5	4	4	6	7	7	10	10	10
50 to 60 Feet	3	3	3	2	2	2	3	2	2	4	4	4	5	5	5
60 to 70 Feet	2	1	1	1	0	0	1	1	1	2	1	2	2	1	2
70 to 80 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1
80 to 90 Feet	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0
above 100 Feet	5	1	3	2	1	1	7	2	4	8	3	5	3	1	2
Mean height Feet	28	23	25	23	19	21	28	22	25	31	25	28	29	26	28

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			1			0			0			2			0
AVG station N			323			315			323			334			318
AVG station -N/Kft			13			12			13			15			13
AVG sfc wind Kts	19	18	18	22	21	21	17	16	17	15	14	15	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45 00 N 165 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 70316 55 12 N 162 43 W
Radiosonde station height: 96 Feet
Surface obs source: MS161 45 00 N 165 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	6	2	4	4	1	2	8	2	5	7	3	5	5	2	3
3 GHz	8	2	5	5	1	3	10	3	6	9	4	7	7	2	4
6 GHz	14	6	10	10	3	7	14	5	9	16	9	12	17	8	12
10 GHz	34	27	30	31	24	27	30	19	24	30	25	28	46	39	42
20 GHz	51	48	49	52	49	50	46	39	42	42	41	42	64	63	64

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	4	2	3	4	1	3	5	2	4	3	3	3	4	2	3
AVG thickness Kft			.17			.14			.16			.16			.20
AVG trap freq GHz			2.4			2.4			2.5			2.1			2.5
AVG lyr grd -M/Kft			109			106			88			118			121

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	7	12	10	5	7	6	4	10	7	11	22	17	8	10	9
AVG top ht Kft			3.7			2.9			3.6			4.4			3.9
AVG thickness Kft			.25			.25			.20			.32			.22
AVG trap freq GHz			1.2			1.1			1.8			.64			1.3
AVG lyr grd -M/Kft			58			58			54			66			60
AVG lyr base Kft			3.5			2.7			3.4			4.1			3.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
0 to 10 Feet	32	30	31	27	25	26	37	35	36	44	40	42	21	19	20
10 to 20 Feet	19	23	21	23	27	25	21	27	24	15	20	18	16	19	18
20 to 30 Feet	17	21	19	21	25	23	17	26	14	12	16	14	19	24	22
30 to 40 Feet	13	15	14	15	16	15	11	11	11	9	11	10	19	21	20
40 to 50 Feet	7	6	6	6	5	6	4	3	4	6	5	6	11	10	10
50 to 60 Feet	3	3	3	3	2	2	2	1	2	3	4	3	6	4	5
60 to 70 Feet	2	1	1	1	0	1	1	1	1	2	1	1	2	1	2
70 to 80 Feet	1	0	1	1	0	0	1	0	0	1	0	1	1	1	1
80 to 90 Feet	1	0	0	0	0	0	1	0	0	1	0	1	1	0	0
90 to 100 Feet	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0
above 100 Feet	5	1	3	2	1	2	6	1	4	6	2	4	3	1	2
Mean height Feet	28	22	25	25	21	23	26	20	23	27	21	24	31	27	29

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
% occur ELEV dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			2			0
AVG station H			316			311			316			325			311
AVG station -M/Kft			12			12			12			13			12
AVG sfc wind Kts	19	18	19	22	21	21	17	17	17	15	15	15	22	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45 00 N 175 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 70454 51 52 N 176 39 W
Radiosonde station height: 13 Feet
Surface obs source: MS162 45 00 N 175 06 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
130 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	5	2	3	4	2	3	6	2	4	7	2	4	4	2	3
3 GHz	6	2	4	4	2	3	7	2	4	8	2	5	6	2	4
6 GHz	12	6	9	9	5	7	11	4	7	14	6	10	16	10	13
10 GHz	33	28	30	33	31	32	26	18	22	26	23	25	46	42	44
20 GHz	50	49	50	56	56	56	41	38	39	39	38	39	66	65	66

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	1	1	0	0	0	1	0	1	1	1	1
AVG thickness Kft			.17			.13			.12			.22			.20
AVG trap freq GHz			2.4			2.5			4.4			1.5			1.3
AVG lyr grd -N/kft			198			190			189			207			205

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	13	15	14	10	8	9	9	12	11	17	27	22	14	11	13
AVG top ht Kft			4.6			4.1			4.2			5.1			4.8
AVG thickness Kft			.26			.27			.25			.31			.24
AVG trap freq GHz			.86			.77			1.2			.55			.89
AVG lyr grd -N/Kft			60			54			58			61			59
AVG lyr base Kft			4.4			4.0			4.0			4.9			4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	31	28	29	22	19	21	38	34	36	45	39	42	18	17	18
10 to 20 Feet	19	23	21	22	25	24	21	27	24	16	20	18	15	17	16
20 to 30 Feet	18	21	20	23	25	24	15	20	18	12	16	14	21	24	22
30 to 40 Feet	15	16	15	16	19	18	11	11	11	8	11	10	19	22	20
40 to 50 Feet	7	7	7	8	7	7	4	3	4	5	5	5	12	11	11
50 to 60 Feet	4	3	3	3	2	3	2	1	1	3	3	3	6	5	6
60 to 70 Feet	1	1	1	1	0	1	1	0	1	2	1	1	2	2	2
70 to 80 Feet	1	0	1	1	0	0	1	0	1	1	0	1	1	1	1
80 to 90 Feet	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
above 100 Feet	5	1	3	3	1	2	6	2	4	6	2	4	4	1	2
Mean height Feet	28	23	25	27	24	25	26	19	22	26	21	23	33	28	30

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			1			0			0			2			1
AVG station N			313			307			314			323			309
AVG station -N/Kft			11			10			11			12			11
AVG sfc wind Kts	19	19	19	22	22	22	17	17	17	15	15	15	22	21	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45 00 N 175 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 70414 52 43 N 174 06 E
Radiosonde station height: 95 Feet
Surface obs source: MS163 45 00 N 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	0	0	0	1	0	0	1	0	1	0	0	0
1 GHz	6	3	4	4	2	3	7	3	5	9	3	6	5	2	3
3 GHz	8	3	6	6	3	4	9	4	6	13	4	8	6	3	4
6 GHz	14	8	11	10	6	8	13	5	9	19	9	14	16	11	13
10 GHz	35	28	31	35	30	32	26	17	22	32	23	27	46	43	44
20 GHz	52	48	50	59	56	57	41	34	38	43	38	40	66	66	66

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	3	4	5	3	4	5	3	4	9	3	6	4	3	4
AVG thickness Kft			.16			.12			.17			.24			.12
AVG trap freq GHz			1.9			2.8			1.4			1.5			2.0
AVG lyr grd -M/Kft			110			73			105			146			116

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	10	14	12	6	7	7	9	14	12	16	23	20	7	10	9
AVG top ht Kft			3.9			4.2			3.5			4.3			3.5
AVG thickness Kft			.25			.18			.24			.31			.26
AVG trap freq GHz			1.0			1.6			1.0			.61			.77
AVG lyr grd -M/Kft			58			54			58			56			65
AVG lyr base Kft			3.7			4.1			3.3			4.0			3.3

EVAPORATION DUCT HISTOGRAH IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	31	29	30	19	17	18	39	39	39	46	43	45	19	17	18
10 to 20 Feet	20	24	22	24	29	27	23	28	26	17	20	19	16	17	17
20 to 30 Feet	18	20	19	25	26	26	15	17	16	11	15	13	21	23	22
30 to 40 Feet	14	15	14	17	18	18	10	9	9	8	10	9	19	21	20
40 to 50 Feet	7	6	7	8	6	7	4	3	3	5	5	5	11	11	11
50 to 60 Feet	4	3	3	3	2	2	2	1	2	3	3	3	6	6	6
60 to 70 Feet	1	1	1	1	1	1	1	0	1	1	1	1	2	2	2
70 to 80 Feet	1	0	1	1	0	0	1	0	0	1	0	1	1	1	1
80 to 90 Feet	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0
90 to 100 Feet	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0
above 100 Feet	4	1	3	2	1	2	4	2	3	6	2	4	3	1	2
Mean height Feet	27	22	24	27	24	25	23	18	20	25	20	22	32	28	30

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			1			0			0			3			1
AVG station N			315			300			316			326			311
AVG station -M/Kft			12			11			12			14			12
AVG sfc wind Kts	19	19	19	22	22	22	17	17	17	15	15	15	23	22	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45 00 N 165 30 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 32217 50 00 N 155 22 E
Radiosonde station height: 36 Feet
Surface obs source: MS164 45 00 N 165 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	*	*	*	0	0	0	1	1	1	0	0	0
1 GHz	6	3	5	*	*	*	5	3	4	10	6	8	3	1	2
3 GHz	8	4	6	*	*	*	6	3	5	13	8	10	4	1	2
6 GHz	14	9	11	*	*	*	10	5	7	19	13	16	14	8	11
10 GHz	33	27	30	*	*	*	21	15	18	31	27	29	46	40	43
20 GHz	48	46	47	*	*	*	35	31	33	42	42	42	67	66	67

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	3	3	0	0	0	2	3	3	6	7	7	1	1	1
AVG thickness Kft			.28			*			.32			.30			.23
AVG trap freq GHz			1.0			*			.80			.53			1.7
AVG lyr grd -N/Kft			128			*			116			115			153

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	3	3	0	1	1	4	4	4	4	5	5	1	2	2
AVG top ht Kft			3.5			3.6			2.7			4.2			3.6
AVG thickness Kft			.26			.15			.24			.41			.22
AVG trap freq GHz			1.8			4.1			1.0			.39			1.5
AVG lyr grd -N/Kft			67			69			67			72			59
AVG lyr base Kft			3.4			3.5			2.6			4.0			3.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	31	29	30	19	20	20	43	41	42	46	41	43	16	15	15
10 to 20 Feet	22	26	24	30	33	31	23	30	27	16	21	18	17	19	18
20 to 30 Feet	18	21	20	25	27	26	14	17	15	12	16	14	22	26	24
30 to 40 Feet	13	13	13	14	14	14	8	7	8	8	10	9	21	22	21
40 to 50 Feet	6	6	6	6	4	5	3	2	3	5	5	5	11	11	11
50 to 60 Feet	3	3	3	2	1	2	2	1	1	3	3	3	6	5	6
60 to 70 Feet	1	1	1	0	0	0	1	1	1	2	1	1	2	1	2
70 to 80 Feet	1	0	1	0	0	0	1	0	1	1	1	1	1	1	1
80 to 90 Feet	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
above 100 Feet	4	1	2	2	1	1	4	1	3	7	1	4	3	0	2
Mean height Feet	26	21	24	24	21	22	22	17	19	26	20	23	32	27	29

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			316			308			317			327			311
AVG station -N/Kft			12			11			12			12			11
AVG sfc wind Kts	19	19	19	22	22	22	17	16	17	15	14	14	22	22	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 46 12 N 150 30 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 32186 46 12 N 150 30 E
Radiosonde station height: 230 Feet
Surface obs source: MS155 45 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	0	0	0	1	1	1	1	1	1	0	0	0
1 GHz	6	4	5	1	1	1	7	5	6	12	7	9	5	1	3
3 GHz	8	5	6	1	1	1	9	6	8	16	8	12	6	2	4
6 GHz	14	9	12	4	3	3	12	9	11	24	16	20	16	10	13
10 GHz	33	28	30	22	20	21	23	18	21	38	33	36	47	42	45
20 GHz	49	48	49	46	44	45	35	33	34	49	48	49	68	66	67

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	5	4	0	1	1	5	7	6	9	8	9	3	2	3
AVG thickness Kft			.17			.16			.24			.14			.15
AVG trap freq GHz			1.7			2.7			1.8			1.2			1.9
AVG lyr grd -N/Kft			503			734			145			191			141

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	3	3	1	1	1	2	4	3	7	6	7	1	1	1
AVG top ht Kft			7.8			17			3.9			3.9			3.1
AVG thickness Kft			.29			.18			.25			.46			.28
AVG trap freq GHz			1.8			1.3			1.7			.57			.49
AVG lyr grd -N/Kft			64			64			58			63			73
AVG lyr base Kft			6.8			17			3.7			3.6			2.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	32	30	31	23	22	22	47	45	46	43	38	40	16	15	16
10 to 20 Feet	20	24	22	31	34	32	21	26	24	13	18	15	16	19	18
20 to 30 Feet	17	20	19	24	24	24	13	15	14	11	16	14	21	24	23
30 to 40 Feet	12	13	13	14	14	14	8	8	8	9	12	10	19	21	20
40 to 50 Feet	6	6	6	4	3	4	3	2	2	6	7	6	12	12	12
50 to 60 Feet	3	3	3	1	1	1	2	1	1	4	4	4	6	5	6
60 to 70 Feet	2	1	1	1	0	0	1	1	1	2	2	2	3	1	2
70 to 80 Feet	1	0	1	0	0	0	1	0	1	1	1	1	1	0	1
80 to 90 Feet	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
above 100 Feet	4	2	3	1	1	1	4	2	3	8	3	6	4	1	2
Mean height Feet	27	22	25	22	21	21	21	17	19	31	24	27	34	20	31

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station H			315			307			315			327			312
AVG station -N/Kft			12			11			12			12			12
AVG sfc wind Kts	18	18	18	22	22	22	16	16	16	14	13	14	20	20	20

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 44 01 N 145 49 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 32165 44 01 N 145 49 E
Radiosonde station height: 157 Feet
Surface obs source: MS166 45 00 N 145 06 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0
1 GHz	12	9	11	4	2	3	11	9	10	23	18	20	11	8	9
3 GHz	14	11	13	4	3	4	13	10	12	26	20	23	14	10	12
6 GHz	22	18	20	7	5	6	17	13	15	35	30	32	30	24	27
10 GHz	39	35	37	24	20	22	27	22	24	47	45	46	59	55	57
20 GHz	54	52	53	47	43	45	37	34	35	56	56	56	75	74	74

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	3	3	0	1	1	4	4	4	7	6	7	2	2	2
AVG thickness Kft			.24			.20			.28			.22			.29
AVG trap freq GHz			1.1			1.5			.64			.73			1.7
AVG lyr grd -N/Kft			158			149			176			145			163

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	6	6	1	1	1	8	6	7	13	15	14	2	2	2
AVG top ht Kft			3.2			4.0			3.4			4.3			1.0
AVG thickness Kft			.26			.10			.33			.41			.18
AVG trap freq GHz			3.1			8.6			1.4			.50			1.7
AVG lyr grd -N/Kft			57			48			60			57			64
AVG lyr base Kft			3.0			3.9			3.1			4.0			.86

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	31	36	30	23	24	24	50	48	49	38	33	36	12	12	12
10 to 20 Feet	17	20	19	31	32	32	16	20	18	10	14	12	13	14	14
20 to 30 Feet	14	16	15	22	23	23	10	12	11	9	11	10	16	19	18
30 to 40 Feet	11	11	11	11	12	12	7	6	7	7	9	8	16	17	17
40 to 50 Feet	7	6	7	6	3	4	3	3	3	5	7	6	13	13	13
50 to 60 Feet	4	4	4	2	1	2	2	1	2	4	4	4	8	7	8
60 to 70 Feet	2	2	2	1	0	1	1	1	1	3	3	3	5	4	4
70 to 80 Feet	2	1	1	0	0	0	1	0	1	2	2	2	3	3	3
80 to 90 Feet	1	1	1	0	0	0	1	0	1	1	1	1	2	1	2
90 to 100 Feet	1	0	1	0	0	0	1	0	1	1	0	1	1	1	1
Above 100 Feet	11	8	9	4	2	3	9	7	8	20	15	17	10	7	9
Mean Height Feet	38	34	36	26	22	24	28	25	26	53	46	49	48	41	45

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SF dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			320			309			320			339			313
AVG station -N/Kft			12			11			12			13			12
AVG sfc wind Kts	15	15	15	20	20	20	14	13	14	12	11	12	17	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 46 55 N 142 43 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 32150 46 55 N 142 43 E
Radiosonde station height: 102 Feet
Surface obs source: MS166 45 00 N 145 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/COMM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
1 GHz	12	9	10	4	2	3	10	7	8	22	17	20	11	8	9
3 GHz	14	10	12	5	2	3	12	8	10	26	20	23	14	10	12
6 GHz	22	17	20	8	4	6	16	11	13	35	29	32	30	25	27
10 GHz	39	35	37	25	19	22	26	20	23	47	45	46	59	55	57
20 GHz	53	51	52	47	43	45	36	32	34	55	56	55	75	74	74

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	3	3	1	0	1	3	2	3	7	6	7	1	2	2
AVG thickness Kft			.22			.13			.23			.22			.30
AVG trap freq GHz			1.9			3.5			2.3			1.3			.55
AVG lyr grd -M/Kft			116			131			121			115			96

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	2	2	1	0	1	2	3	3	7	5	6	1	0	1
AVG top ht Kft			6.7			17			2.5			4.4			3.3
AVG thickness Kft			.29			.25			.28			.35			.27
AVG trap freq GHz			.82			.82			.82			.54			1.1
AVG lyr grd -M/Kft			64			65			72			55			64
AVG lyr base Kft			6.5			17			2.3			4.1			3.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	31	30	30	23	24	24	50	48	49	38	33	36	12	12	12
10 to 20 Feet	17	20	19	31	32	32	16	20	18	10	14	12	13	14	14
20 to 30 Feet	14	16	15	22	23	23	10	12	11	9	11	10	16	19	18
30 to 40 Feet	11	11	11	11	12	12	7	6	7	7	9	8	16	17	17
40 to 50 Feet	7	6	7	6	3	4	3	3	3	5	7	6	13	13	13
50 to 60 Feet	4	4	4	2	1	2	2	1	2	4	4	4	8	7	8
60 to 70 Feet	2	2	2	1	0	1	1	1	1	3	3	3	5	4	4
70 to 80 Feet	2	1	1	0	0	0	1	0	1	2	2	2	3	3	3
80 to 90 Feet	1	1	1	0	0	0	1	0	1	1	1	1	2	1	2
90 to 100 Feet	1	0	1	0	0	0	1	0	1	1	0	1	1	1	1
above 100 Feet	11	8	9	4	2	3	9	7	8	20	15	17	10	7	9
Mean height Feet	38	34	36	26	22	24	28	25	26	53	46	49	48	41	45

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur ELSB dcts			0			0			0			0			0
% occur + EL dcts			0			0			0			0			0
AVG station M			320			312			318			337			314
AVG station -M/Kft			12			11			12			13			12
AVG sfc wind Kts	15	13	15	20	20	20	14	13	14	12	11	12	17	16	16

IPEPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 40 46 N 141 22 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47580 40 40 N 141 22 E
Radiosonde station height: 128 Feet
Surface obs source: MS:66 45 00 N 145 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0	0	0	0	0	0	0	0	0
1 GHz	13	10	12	*	*	*	9	7	8	21	15	18	10	7	9
3 GHz	15	12	14	*	*	*	11	8	9	23	19	21	13	9	11
6 GHz	25	21	23	*	*	*	15	11	13	32	28	30	29	23	26
10 GHz	43	39	41	*	*	*	25	20	22	45	44	44	58	54	56
20 GHz	54	53	54	*	*	*	35	32	33	53	55	54	75	73	74

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	1	0	0	0	1	1	1	3	5	4	0	0	0
AVG thickness Kft			.28			*			.26			.19			.39
AVG trap freq GHz			1.5			*			1.3			2.4			.94
AVG lyr grd -M/Kft			141			*			118			155			158

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	4	4	0	0	0	4	4	4	6	11	9	2	2	2
AVG top ht Kft			5.3			10			3.0			5.1			3.4
AVG thickness Kft			.24			.09			.35			.35			.17
AVG trap freq GHz			2.2			4.1			.59			.84			3.4
AVG lyr grd -M/Kft			58			65			39			55			55
AVG lyr base Kft			5.1			10			2.7			4.8			3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	31	30	30	23	24	24	50	48	49	38	33	35	12	12	12
10 to 20 Feet	17	20	19	31	32	32	16	20	18	10	14	12	13	14	14
20 to 30 Feet	14	15	15	22	23	23	10	12	11	9	11	10	16	19	18
30 to 40 Feet	11	11	11	11	12	12	7	8	7	7	9	8	16	17	17
40 to 50 Feet	7	6	7	6	3	4	3	3	3	5	7	6	13	13	13
50 to 60 Feet	4	4	4	2	1	2	2	1	2	4	4	4	8	7	8
60 to 70 Feet	2	2	2	1	0	1	1	1	1	3	3	3	5	4	4
70 to 80 Feet	2	1	1	0	0	0	1	0	1	2	2	2	3	3	3
80 to 90 Feet	1	1	1	0	0	0	1	0	1	1	1	1	2	1	2
90 to 100 Feet	1	0	1	0	0	0	1	0	1	1	0	1	1	1	1
above 100 Feet	11	8	9	4	2	3	9	7	8	20	15	17	10	7	9
Mean height Feet	38	34	36	26	22	24	28	23	26	53	46	49	48	41	45

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SE ducts			0			0			0			0			0
% occur 2+ EL ducts			0			0			0			1			0
AVG station N			328			311			325			355			318
AVG station -N/Kft			12			11			12			13			12
AVG sfc wind Kts	15	15	15	20	20	20	14	13	14	12	11	12	17	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 48 54 N 144 36 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 32899 48 54 N 144 36 E
Radiosonde station height: 108 Feet
Surface obs source: MS166 45 08 N 145 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
100 MHz	1	1	1	0	0	0	0	1	1	2	1	2	0	1	1
1 GHz	13	11	12	4	3	3	10	11	11	26	19	22	12	9	11
3 GHz	16	13	14	4	4	4	13	14	13	30	22	26	16	12	14
6 GHz	24	20	22	7	6	7	17	19	17	40	32	36	31	27	29
10 GHz	41	38	39	24	21	23	27	27	27	51	47	49	60	56	58
20 GHz	55	54	54	47	44	45	37	39	38	59	57	58	76	75	75

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	7	8	7	0	3	2	5	13	9	16	10	13	5	6	6
AVG thickness Kft			.18			.09			.23			.17			.23
AVG trap freq GHz			1.9			2.3			2.2			1.2			1.3
AVG lyr grd -N/Kft			198			123			146			302			192

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	2	1	2	0	0	0	2	2	2	5	3	4	0	0	0
AVG top ht Kft			2.3			*			2.6			1.9			*
AVG thickness Kft			.36			*			.35			.36			*
AVG trap freq GHz			.89			*			.68			1.1			*
AVG lyr grd -N/Kft			59			*			55			63			*
AVG lyr base Kft			2.0			*			2.3			1.7			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
0 to 10 Feet	31	30	30	23	24	24	50	48	49	38	33	36	12	12	12
10 to 20 Feet	17	20	19	31	32	32	16	20	18	10	14	12	13	14	14
20 to 30 Feet	14	16	15	22	23	23	10	12	11	9	11	10	16	19	18
30 to 40 Feet	11	11	11	11	12	12	7	6	7	7	9	8	16	17	17
40 to 50 Feet	7	6	7	6	3	4	3	3	3	5	7	6	13	13	13
50 to 60 Feet	4	4	4	2	1	2	2	1	2	4	4	4	8	7	8
60 to 70 Feet	2	2	2	1	0	1	1	1	1	3	3	3	5	4	4
70 to 80 Feet	2	1	1	0	0	0	1	0	1	2	2	2	3	3	3
80 to 90 Feet	1	1	1	0	0	0	1	0	1	1	1	1	2	1	2
90 to 100 Feet	1	0	1	0	0	0	1	0	1	1	0	1	1	1	1
above 100 Feet	11	8	9	4	2	3	9	7	8	20	15	17	10	7	9
Mean height Feet	38	34	36	26	22	24	28	25	26	53	46	49	48	41	45

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			318			312			318			330			313
AVG station -N/Kft			12			11			12			13			12
AVG sfc wind Kts	15	15	15	20	20	20	14	13	14	12	11	12	17	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 43 19 N 145 34 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47420 43 19 N 145 34 E
Radiosonde station height: 85 Feet
Surface obs source: M5166 45 00 N 145 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/OSM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
100 MHz	0	0	0	*	*	*	0	0	0	0	0	0	0	0	0
1 GHz	14	10	12	*	*	*	5	7	8	21	16	18	11	7	9
3 GHz	16	12	14	*	*	*	11	8	10	23	18	20	14	9	12
6 GHz	26	21	23	*	*	*	15	11	13	32	27	30	30	24	27
10 GHz	43	39	41	*	*	*	25	20	22	45	43	44	59	54	57
20 GHz	54	53	54	*	*	*	35	32	33	53	54	54	75	73	74

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	1	1	1	0	0	0	1	1	1	2	2	2	2	1	2
AVG thickness Kft			.35			*			.32			.43			.31
AVG trap freq GHz			.92			*			.56			.79			1.4
AVG lyr grd -N/Kft			158			*			152			159			162

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	5	6	5	1	0	1	6	7	7	12	12	12	1	3	2
AVG top ht Kft			4.4			4.4			2.1			4.7			6.5
AVG thickness Kft			.29			.28			.32			.33			.29
AVG trap freq GHz			1.0			1.0			.65			.74			1.6
AVG lyr grd -N/Kft			57			61			55			51			62
AVG lyr base Kft			4.2			4.3			1.9			4.4			6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
0 to 10 Feet	31	30	30	23	24	24	56	48	49	38	33	36	12	12	12
10 to 20 Feet	17	20	19	31	32	32	16	20	18	10	14	12	13	14	14
20 to 30 Feet	14	16	15	22	23	23	10	12	11	9	11	10	16	19	18
30 to 40 Feet	11	11	11	11	12	12	7	6	7	7	9	8	16	17	17
40 to 50 Feet	7	6	7	6	3	4	3	3	3	5	7	6	13	13	13
50 to 60 Feet	4	4	4	2	1	2	2	1	2	4	4	4	8	7	8
60 to 70 Feet	2	2	2	1	0	1	1	1	1	3	3	3	5	4	4
70 to 80 Feet	2	1	1	0	0	0	1	0	1	2	2	2	3	3	3
80 to 90 Feet	1	1	1	0	0	0	1	0	1	1	1	1	2	1	2
90 to 100 Feet	1	0	1	0	0	0	1	0	1	1	0	1	1	1	1
above 100 Feet	11	8	9	4	2	3	9	7	8	20	15	17	10	7	9
Mean height Feet	38	34	36	26	22	24	28	25	26	53	46	49	48	41	45

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			322			310			322			342			315
AVG station -N/Kft			12			11			12			13			12
AVG stc wind kts	15	15	15	20	20	20	14	13	14	12	11	12	17	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 49 00 N 140 16 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 31770 49 00 N 140 16 E
Radiosonde station height: 72 Feet
Surface obs source: MS166 45 00 N 145 09 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
1 GHz	12	9	10	4	2	3	10	8	9	22	17	20	11	7	9
3 GHz	14	10	12	4	3	3	12	9	10	25	20	22	14	9	12
6 GHz	22	17	19	7	5	6	16	11	14	34	29	32	20	13	17
10 GHz	39	35	37	24	20	22	26	20	23	46	45	45	59	54	56
20 GHz	53	51	52	47	43	45	36	32	34	55	56	55	75	73	74

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	2	2	0	1	1	3	2	3	5	6	6	2	0	1
AVG thickness Kft			.20			.10			.33			.15			.20
AVG trap freq GHz			1.7			3.4			1.2			.91			1.4
AVG lyr grd -N/Kft			307			581			161			162			325

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	0	0	0	1	3	2	4	6	5	1	0	1
AVG top ht Kft			4.1			5.9			3.4			4.2			2.9
AVG thickness Kft			.22			.08			.22			.31			.27
AVG trap freq GHz			2.4			3.7			1.2			1.6			3.0
AVG lyr grd -N/Kft			81			67			68			61			128
AVG lyr base Kft			4.0			5.8			3.3			4.0			2.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	31	38	33	23	24	24	50	48	49	38	33	36	12	12	12
10 to 20 Feet	17	20	19	31	32	32	16	20	18	10	14	12	13	14	14
20 to 30 Feet	14	16	15	22	23	23	10	12	11	9	11	10	16	19	18
30 to 40 Feet	11	11	11	11	12	12	7	6	7	7	9	8	16	17	17
40 to 50 Feet	7	6	7	6	3	4	3	2	3	5	7	6	13	13	13
50 to 60 Feet	4	4	4	2	1	2	2	1	2	4	4	4	8	7	8
60 to 70 Feet	2	2	2	1	0	1	1	1	1	3	3	3	5	4	4
70 to 80 Feet	2	1	1	0	0	0	1	0	1	2	2	2	3	3	3
80 to 90 Feet	1	1	1	0	0	0	1	0	1	1	1	1	2	1	2
90 to 100 Feet	1	0	1	0	0	0	1	0	1	1	0	1	1	1	1
above 100 Feet	11	8	9	4	2	3	9	7	8	20	15	17	10	7	9
Mean height Feet	38	34	36	26	22	24	28	25	26	53	46	49	48	41	45

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			318			311			316			334			310
AVG station -N/Kft			11			11			11			13			11
AVG sfc wind Kts	15	15	15	20	20	20	14	13	14	12	11	12	17	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45 23 N 141 48 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 47401 45 25 N 141 48 E
Radiosonde station height: 10 Feet
Surface obs source: MS183 45 00 N 145 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0	0	0	0	0	0	0	0	0
1 GHz	13	10	12	*	*	*	9	7	8	20	15	18	11	7	9
3 GHz	16	11	14	*	*	*	11	8	9	23	18	20	14	9	11
6 GHz	25	20	23	*	*	*	15	11	13	31	27	29	29	23	26
10 GHz	42	39	41	*	*	*	25	20	22	44	43	43	59	54	56
20 GHz	54	53	54	*	*	*	35	32	33	53	54	53	75	73	74

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	1	1	1	1	2	2	1	0	1
AVG thickness Kft			.33			*			.23			.58			.19
AVG trap freq GHz			1.3			*			1.5			1.1			1.2
AVG lyr grd -N/Kft			205			*			251			147			215

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	4	3	2	1	1	3	6	5	7	8	8	1	1	1
AVG top ht Kft			4.5			4.3			4.0			3.3			5.9
AVG thickness Kft			.27			.19			.28			.38			.22
AVG trap freq GHz			1.2			2.2			.74			.76			.91
AVG lyr grd -N/Kft			36			54			57			54			69
AVG lyr base Kft			4.2			4.8			3.7			3.3			5.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	31	30	30	23	24	24	50	48	49	38	33	36	12	12	12
10 to 20 Feet	17	20	19	31	32	32	16	20	18	10	14	12	13	14	14
20 to 30 Feet	14	16	15	22	23	23	10	12	11	9	11	10	16	19	18
30 to 40 Feet	11	11	11	11	12	12	7	6	7	7	9	8	16	17	17
40 to 50 Feet	7	6	7	6	3	4	3	3	3	5	7	6	13	13	13
50 to 60 Feet	4	4	4	2	1	2	2	1	2	4	4	4	8	7	8
60 to 70 Feet	2	2	2	1	0	1	1	1	1	3	3	3	5	4	4
70 to 80 Feet	2	1	1	0	0	0	1	0	1	2	2	2	3	3	3
80 to 90 Feet	1	1	1	0	0	0	1	0	1	1	1	1	2	1	2
90 to 100 Feet	1	0	1	0	0	0	1	0	1	1	0	1	1	1	1
above 100 Feet	11	8	9	4	2	3	9	7	8	20	15	17	10	7	9
Mean height Feet	38	34	36	26	22	24	28	25	26	53	46	49	48	41	45

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur ELSB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			322			310			322			344			313
AVG station -N/Kft			12			11			12			14			11
AVG sfc wind Kts	15	15	15	20	20	20	14	13	14	12		12	17	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45 01 N 136 40 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 31909 45 01 N 136 40 E
Radiosonde station height: 66 Feet
Surface obs source: MS167 45 08 N 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0
1 GHz	14	9	12	2	4	3	20	13	16	25	16	20	10	4	7
3 GHz	17	12	14	3	4	4	22	16	19	30	21	25	14	6	10
6 GHz	27	21	24	6	5	6	28	21	24	42	33	37	34	27	30
10 GHz	47	43	45	24	22	23	38	35	37	59	52	55	66	63	65
20 GHz	65	64	65	52	58	55	51	47	49	72	66	69	86	85	86

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	4	5	1	1	1	7	5	6	11	9	10	2	2	2
AVG thickness Kft			.28			.21			.20			.25			.14
AVG trap freq GHz			1.6			.92			1.0			1.0			3.5
AVG lyr grd -N/Kft			134			120			106			100			212

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	3	3	1	0	1	4	6	5	5	5	6	1	1	1
AVG top ht Kft			3.5			4.6			2.3			4.7			2.2
AVG thickness Kft			.25			.08			.42			.46			.20
AVG trap freq GHz			1.3			3.3			.33			.33			1.5
AVG lyr grd -N/Kft			64			56			64			63			61
AVG lyr base Kft			3.3			4.5			2.0			4.4			2.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	20	19	20	28	16	18	35	35	35	20	21	21	6	5	5
10 to 20 Feet	16	18	17	27	27	27	17	20	19	11	16	13	9	10	9
20 to 30 Feet	19	22	20	29	36	33	14	12	13	14	15	15	19	23	21
30 to 40 Feet	14	14	14	15	15	15	7	10	9	10	10	10	21	20	21
40 to 50 Feet	7	8	7	2	2	2	3	4	4	8	10	9	13	16	14
50 to 60 Feet	5	5	5	1	0	0	2	2	2	5	4	5	10	12	11
60 to 70 Feet	3	3	3	1	1	1	2	2	2	4	5	5	7	6	6
70 to 80 Feet	2	2	2	1	0	1	2	1	1	3	3	3	3	3	3
80 to 90 Feet	1	1	1	0	0	0	1	1	1	2	3	2	3	1	2
90 to 100 Feet	1	0	1	0	0	0	1	1	1	2	1	1	1	0	1
Above 100 Feet	12	7	10	2	4	3	17	11	14	20	12	16	9	3	6
Mean height Feet	45	37	41	24	25	25	46	36	41	59	46	53	51	41	46

GENERAL METEOROLOGY SUMMARY

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur ELOSS mtls			0			0			0			0			0
% occur 2+ EL mtls			0			0			0			0			0
AVG station N			319			308			319			340			310
AVG station -N/Kft			12			11			12			13			11
AVG sfc wind Kts	14	14	14	17	17	17	11	12	12	11	11	11	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 43 07 N 131 54 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 31960 43 07 N 131 54 E
Radiosonde station height: 262 Feet
Surface obs source: MSI67 45 00 N 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
1 GHz	13	8	11	2	4	3	18	12	15	22	14	18	10	4	7
3 GHz	16	11	13	3	4	3	20	15	17	26	18	22	14	7	11
6 GHz	26	20	23	5	4	5	25	20	23	38	30	34	35	28	31
10 GHz	46	42	44	23	21	22	36	34	35	56	50	53	68	63	66
20 GHz	64	63	64	52	58	55	50	46	48	70	64	67	86	85	86

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	3	3	0	0	0	3	3	3	5	5	5	4	4	4
AVG thickness Kft			.21			.10			.27			.33			.14
AVG trap freq GHz			3.5			8.5			1.0			1.6			2.8
AVG lyr grd -N/Kft			140			*			155			140			124

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	0	0	0	2	4	3	3	4	4	1	1	1
AVG top ht Kft			10			30			3.3			5.7			1.3
AVG thickness Kft			.26			.17			.31			.37			.18
AVG trap freq GHz			1.3			1.3			1.2			1.3			1.5
AVG lyr grd -N/Kft			73			65			68			58			101
AVG lyr base Kft			10			30			3.1			5.4			1.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	20	19	20	20	16	18	35	35	35	20	21	21	6	5	5
10 to 20 Feet	16	18	17	27	27	27	17	20	19	11	16	13	9	18	9
20 to 30 Feet	19	22	20	29	36	33	14	12	13	14	15	15	15	23	21
30 to 40 Feet	14	14	14	15	15	15	7	10	9	10	10	10	21	20	21
40 to 50 Feet	7	8	7	2	2	2	3	4	4	8	10	9	13	16	14
50 to 60 Feet	5	5	5	1	0	0	2	2	2	5	4	5	10	12	11
60 to 70 Feet	3	3	3	1	1	1	2	2	2	4	5	5	7	6	6
70 to 80 Feet	2	2	2	1	0	1	2	1	1	3	3	3	3	3	3
80 to 90 Feet	1	1	1	0	0	0	1	1	1	2	3	2	3	1	2
90 to 100 Feet	1	0	1	0	0	0	1	1	1	2	1	1	1	0	1
above 100 Feet	12	7	10	2	4	3	17	11	14	20	12	16	9	3	6
Mean height Feet	45	37	41	24	25	25	46	36	41	59	46	53	51	41	46

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SS dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			320			308			319			344			310
AVG station -N/Kft			12			11			12			14			11
AVG sfc wind Kts	14	14	14	17	17	17	11	12	12	11	11	11	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 40 39 N 49 58 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 37860 40 39 N 49 58 E
Radiosonde station height: 95 Feet
Surface obs source: MS177 45 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	2	2	1	1	1	1	2	1	4	4	4	2	3	2
1 GHz	22	19	20	11	10	11	19	21	20	44	29	36	13	16	15
3 GHz	26	24	25	13	13	13	23	26	24	54	37	45	16	20	18
6 GHz	38	37	38	18	18	18	30	36	33	71	61	66	31	34	32
10 GHz	60	61	61	38	41	40	48	57	52	93	85	87	60	66	63
20 GHz	76	77	76	59	63	61	67	71	69	95	93	94	83	79	81

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	15	14	5	5	6	7	16	12	28	27	28	7	13	10
AVG thickness Kft			.29			.22			.23			.23			.25
AVG trap freq GHz			.75			.66			1.2			.94			.34
AVG lyr grd -N/Kft			155			208			134			128			149

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	8	6	3	5	4	2	7	5	8	14	11	6	6	6
AVG top ht Kft			2.8			2.3			1.0			3.6			1.8
AVG thickness Kft			.48			.40			.27			.52			.41
AVG trap freq GHz			.67			.59			1.3			.36			.28
AVG lyr grd -N/Kft			75			83			65			67			83
AVG lyr base Kft			1.8			2.1			.87			3.2			.82

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	12	13	13	18	19	19	18	19	18	3	6	5	8	10	9
10 to 20 Feet	14	14	14	24	22	23	16	16	17	4	5	4	10	15	12
20 to 30 Feet	17	18	17	22	22	22	20	17	18	7	10	9	19	22	20
30 to 40 Feet	14	15	15	16	16	16	12	11	11	10	14	12	19	20	19
40 to 50 Feet	11	11	11	5	7	6	7	12	9	14	16	15	18	10	14
50 to 60 Feet	7	8	8	2	3	3	5	6	5	13	14	13	10	9	9
60 to 70 Feet	3	5	4	1	2	2	2	2	2	5	10	8	4	4	4
70 to 80 Feet	2	3	2	1	0	1	1	2	2	3	5	4	2	3	3
80 to 90 Feet	2	1	2	0	1	1	1	1	1	4	2	3	1	1	1
90 to 100 Feet	1	1	1	1	1	1	1	1	1	3	1	2	0	1	1
above 100 Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
Mean height Feet	56	47	52	35	35	35	51	48	49	92	65	79	46	41	44

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			0			1			4			1
% occur 2+ EL dcts			0			0			0			2			0
AVG station N			334			320			334			350			330
AVG station -N/Kft			14			12			14			17			14
AVG sfc wind Kts	13	13	13	14	15	15	12	12	12	11	10	11	13	13	13

HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 47 01 N 51 51 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 38760 47 01 N 51 51 E
Radiosonde station height: -325 Feet
Surface obs source: MS177 45 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE TO-SURFACE RADAR ESM CON RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	0	0	0	0	1	1	1	2	1	0	0	0
1 GHz	17	14	16	6	8	8	17	19	18	35	23	29	8	8	8
3 GHz	21	18	19	9	9	9	19	23	21	43	29	36	10	10	10
6 GHz	33	32	32	14	15	15	27	33	30	54	55	60	26	25	26
10 GHz	57	58	58	35	39	37	46	54	50	87	83	85	63	55	59
20 GHz	74	75	74	57	61	59	65	69	67	93	92	93	82	77	79

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	6	4	1	1	1	1	9	5	4	12	8	0	2	1
AVG thickness Kft			*			*			*			*			*
AVG trap freq GHz			1.1			2.4			.61			.57			.82
AVG lyr grd -N/Kft			145			245			103			109			122

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	6	4	2	2	2	1	6	4	2	5	4	3	9	6
AVG top ht Kft			*			*			*			*			*
AVG thickness Kft			.33			.26			.42			.35			.30
AVG trap freq GHz			.46			.69			.28			.36			.51
AVG lyr grd -N/Kft			69			74			78			63			62
AVG lyr base Kft			*			*			*			*			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	12	13	13	18	19	19	18	19	18	3	6	5	8	10	9
10 to 20 Feet	14	14	14	24	22	23	18	16	17	4	5	4	10	15	12
20 to 30 Feet	17	18	17	22	22	22	20	17	18	7	10	9	19	22	20
30 to 40 Feet	14	15	15	16	16	16	12	11	11	10	14	12	19	20	19
40 to 50 Feet	11	11	11	5	7	6	7	12	9	14	16	15	18	18	14
50 to 60 Feet	7	8	8	2	3	3	5	6	5	13	14	13	10	9	9
60 to 70 Feet	3	5	4	1	2	2	2	2	2	5	10	8	4	4	4
70 to 80 Feet	2	3	2	1	0	1	1	2	2	3	5	4	2	3	3
80 to 90 Feet	2	1	2	0	1	1	1	1	1	4	2	3	1	1	1
90 to 100 Feet	1	1	1	1	1	1	1	1	1	3	1	2	0	1	1
above 100 Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
Mean height Feet	56	47	52	35	35	35	51	48	49	92	65	79	46	41	44

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station ht			314			316			311			314			316
AVG station -N/Kft			11			12			11			11			12
AVG sfc wind kts	13	13	13	14	15	15	12	12	12	11	10	11	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 40 01 N 52 58 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 38507 40 01 N 52 58 E
Radiosonde station height: 292 Feet
Surface obs source: MS177 45 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	0	0	0	0	2	1	1	2	1	1	1	1
1 GHz	18	16	17	9	9	9	18	20	19	35	24	30	11	11	11
3 GHz	22	20	21	10	11	10	21	24	22	43	30	36	13	15	14
6 GHz	34	34	34	15	17	16	28	35	31	64	56	60	29	30	29
10 GHz	58	59	59	35	40	38	47	55	51	87	83	85	64	58	61
20 GHz	75	76	75	57	62	59	66	70	68	93	92	93	83	78	80

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	10	7	2	3	3	3	12	8	4	14	9	5	10	8
AVG thickness Kft			.24			.18			.21			.44			.14
AVG trap freq GHz			.94			1.1			.81			.68			1.1
AVG lyr grd -N/Kft			170			162			156			205			155

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	4	4	1	1	1	3	4	4	6	8	7	5	3	4
AVG top ht Kft			3.7			4.2			4.3			3.5			2.6
AVG thickness Kft			.40			.37			.36			.52			.36
AVG trap freq GHz			.54			.65			.66			.37			.47
AVG lyr grd -N/Kft			65			76			64			60			58
AVG lyr base Kft			3.4			4.0			4.1			3.1			2.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	12	13	13	18	19	19	18	19	18	3	6	5	8	10	9
10 to 20 Feet	14	14	14	24	22	23	18	16	17	4	5	4	10	15	12
20 to 30 Feet	17	18	17	22	22	22	20	17	18	7	10	9	19	22	20
30 to 40 Feet	14	15	15	16	15	16	12	11	11	10	14	12	19	20	19
40 to 50 Feet	11	11	11	5	7	6	7	12	9	14	16	15	18	10	14
50 to 60 Feet	7	8	8	2	3	3	5	6	5	13	14	13	10	9	9
60 to 70 Feet	5	5	4	1	2	2	2	2	2	5	10	8	4	4	4
70 to 80 Feet	2	3	2	1	0	1	1	2	2	3	5	4	2	3	3
80 to 90 Feet	2	1	2	0	1	1	1	1	1	4	2	3	1	1	1
90 to 100 Feet	1	1	1	1	1	1	1	1	1	3	1	2	0	1	1
above 100 Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
Mean height Feet	56	47	52	35	35	35	51	48	49	92	65	79	46	41	44

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SF dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			316			312			318			318			314
AVG station -N/Kft			12			12			13			12			12
AVG sfc wind Kts	13	13	13	14	15	15	12	12	12	11	10	11	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 46 16 N 48 01 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 34980 46 16 N 48 01 E
Radiosonde station height: -325 Feet
Surface obs source: MS177 45 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	2	1	0	0	0	0	2	1	0	3	2	0	1	1
1 GHz	17	16	17	8	7	8	18	21	19	34	27	31	9	10	10
3 GHz	21	20	20	9	9	9	20	25	23	42	32	37	11	13	12
6 GHz	33	34	33	14	15	14	27	35	31	63	58	60	27	28	27
10 GHz	58	59	58	35	38	37	46	56	51	86	83	85	63	57	60
20 GHz	74	75	75	57	61	59	66	70	68	93	92	93	82	77	80

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	9	5	1	0	1	2	12	7	1	16	9	1	6	4
AVG thickness Kft			*			*			*			*			*
AVG trap freq GHz			1.0			2.5			.57			.38			.51
AVG lyr grd -N/Kft			174			297			155			122			121

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	10	7	2	4	3	4	10	6	4	15	10	6	10	8
AVG top ht Kft			*			*			*			*			*
AVG thickness Kft			.36			.26			.37			.47			.33
AVG trap freq GHz			.53			.59			.69			.36			.49
AVG lyr grd -N/Kft			61			65			58			56			66
AVG lyr base Kft			*			*			*			*			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	12	13	13	18	19	19	18	19	18	3	6	5	9	10	9
10 to 20 Feet	14	14	14	24	22	23	18	16	17	4	5	4	10	15	12
20 to 30 Feet	17	18	17	22	22	22	20	17	18	7	10	9	19	22	20
30 to 40 Feet	14	15	15	16	16	16	12	11	11	10	14	12	19	20	19
40 to 50 Feet	11	11	11	5	7	6	7	12	9	14	16	15	18	10	14
50 to 60 Feet	7	8	8	2	3	3	5	6	5	13	14	13	10	9	9
60 to 70 Feet	3	5	4	1	2	2	2	2	2	5	10	8	4	4	4
70 to 80 Feet	2	3	2	1	0	1	1	2	2	3	5	4	2	3	3
80 to 90 Feet	2	1	2	0	1	1	1	1	1	4	2	3	1	1	1
90 to 100 Feet	1	1	1	1	1	1	1	1	1	3	1	2	0	1	1
above 100 Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
Mean height Feet	56	47	52	35	35	35	51	48	49	92	65	79	46	41	44

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			3			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			321			316			322			327			319
AVG station -N/Kft			12			12			12			13			12
AVG sfc wind Kts	13	13	13	14	15	15	12	12	12	11	10	11	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 42 52 N 41 07 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 37260 42 52 N 41 07 E
Radiosonde station height: 387 Feet
Surface obs source: MS177 45 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
1 GHz	18	12	15	8	8	8	18	15	16	34	18	26	11	9	10
3 GHz	22	15	19	10	10	10	20	17	19	42	22	32	14	13	14
6 GHz	34	31	32	14	15	15	28	28	28	63	51	57	30	28	29
10 GHz	58	57	57	35	39	37	46	50	48	86	81	84	65	57	61
20 GHz	75	74	74	57	61	59	66	67	66	93	91	92	83	78	80

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	3	3	1	1	1	3	1	2	2	3	3	8	7	8
AVG thickness Kft			.28			.15			.16			.66			.14
AVG trap freq GHz			1.5			.84			1.7			1.7			1.6
AVG lyr grd -N/Kft			199			260			200			182			155

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	1	1	0	0	0	2	2	2	1	1	1
AVG top ht Kft			2.6			.77			2.8			5.1			2.0
AVG thickness Kft			.57			.36			.68			.49			.55
AVG trap freq GHz			.29			.55			.11			.32			.19
AVG lyr grd -N/Kft			76			89			69			62			85
AVG lyr base Kft			2.3			.60			2.2			4.7			1.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	12	13	13	18	19	19	18	19	18	3	6	5	8	10	9
10 to 20 Feet	14	14	14	24	22	23	18	16	17	4	5	4	10	15	12
20 to 30 Feet	17	18	17	22	22	22	20	17	18	7	10	9	19	22	20
30 to 40 Feet	14	15	15	16	16	16	12	11	11	10	14	12	19	20	19
40 to 50 Feet	11	11	11	5	7	6	7	12	9	14	16	15	18	10	14
50 to 60 Feet	7	8	8	2	3	3	5	6	5	13	14	13	10	9	9
60 to 70 Feet	3	5	4	1	2	2	2	2	2	5	10	8	4	4	4
70 to 80 Feet	2	3	2	1	0	1	1	2	2	3	5	4	2	3	3
80 to 90 Feet	2	1	2	0	1	1	1	1	1	4	2	3	1	1	1
90 to 100 Feet	1	1	1	1	1	1	1	1	1	3	1	2	0	1	1
above 100 Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
Mean height Feet	56	47	52	35	35	35	51	48	49	92	65	79	46	41	44

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			327			311			330			347			319
AVG station -N/Kft			13			12			14			15			12
AVG sfc wind Kts	13	13	13	14	15	15	12	12	12	11	10	11	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 41 39 N 41 37 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 37484 41 39 N 41 37 E
Radiosonde station height: 20 Feet
Surface obs source: NS177 45 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	*	*	*	0	0	0	1	0	1	*	*	*
1 GHz	27	16	22	*	*	*	17	15	16	37	18	27	*	*	*
3 GHz	32	20	26	*	*	*	20	17	18	44	22	33	*	*	*
6 GHz	46	39	43	*	*	*	27	27	27	64	51	58	*	*	*
10 GHz	67	65	66	*	*	*	46	50	48	87	81	84	*	*	*
20 GHz	80	79	79	*	*	*	66	66	66	94	91	92	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	1	1	0	0	0	3	0	2	6	2	4	0	0	0
AVG thickness Kft			.23			*			.16			.31			*
AVG trap freq GHz			2.1			*			3.8			.44			*
AVG lyr grd -N/Kft			668			*			861			475			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	1	0	0	0	0	1	1	3	5	4	1	1	1
AVG top ht Kft			6.3			*			*			6.3			*
AVG thickness Kft			.78			1.1			.91			.58			.65
AVG trap freq GHz			.22			.06			.09			.69			.12
AVG lyr grd -N/Kft			75			*			*			75			*
AVG lyr base Kft			5.1			1.9			4.5			5.8			8.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	12	13	13	18	19	19	18	19	18	3	6	5	8	10	9
10 to 20 Feet	14	14	14	24	22	23	18	16	17	4	5	4	10	15	12
20 to 39 Feet	17	18	17	22	22	22	20	17	18	7	10	9	19	22	20
39 to 40 Feet	14	15	15	16	16	16	12	11	11	10	14	12	19	20	19
40 to 50 Feet	11	11	11	5	7	6	7	12	9	14	16	15	18	10	14
50 to 60 Feet	7	8	8	2	3	3	5	6	5	13	14	13	10	9	9
60 to 70 Feet	3	5	4	1	2	2	2	2	2	5	10	8	4	4	4
70 to 80 Feet	2	3	2	1	0	1	1	2	2	3	5	4	2	3	3
80 to 90 Feet	2	1	2	0	1	1	1	1	1	4	2	3	1	1	1
90 to 100 Feet	1	1	1	1	1	1	1	1	1	3	1	2	0	1	1
above 100 Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
Mean height Feet	56	47	52	33	35	35	51	48	49	92	65	79	46	41	44

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			283			108			337			353			332
AVG station -N/Kft			12			4.6			14			15			14
AVG sfc wind Kts	13	13	13	14	15	15	12	12	12	11	10	11	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 46 28 N 30 37 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 33837 46 28 N 30 37 E
Radiosonde station height: 161 Feet
Surface obs source: MS177 45 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	0	0	0	1	1	1	1	2	2	0	1	1
1 GHz	19	15	17	9	8	8	20	18	19	38	23	30	10	11	10
3 GHz	23	18	21	11	10	10	23	21	22	46	28	37	12	14	13
6 GHz	35	33	34	16	15	15	30	32	31	66	55	60	27	29	28
10 GHz	59	58	58	36	39	37	48	53	51	88	83	85	63	58	60
20 GHz	75	75	75	58	61	59	67	69	68	94	92	93	82	78	80

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	7	6	3	1	2	7	7	7	10	12	11	2	7	5
AVG thickness Kft			.24			.16			.25			.25			.31
AVG trap freq GHz			.86			1.2			.90			.71			.58
AVG lyr grd -N/Kft			122			200			94			103			91

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	1	1	1	1	1	2	2	1	2	2	2	1	2
AVG top ht Kft			3.3			1.8			3.6			3.9			3.7
AVG thickness Kft			.42			.30			.44			.47			.48
AVG trap freq GHz			.69			1.7			.31			.41			.39
AVG lyr grd -N/Kft			71			67			89			59			67
AVG lyr base Kft			3.0			1.6			3.4			3.5			3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	12	13	13	18	19	19	18	19	18	3	6	5	8	10	9
10 to 20 Feet	14	14	14	24	22	23	16	16	17	4	5	4	18	15	12
20 to 30 Feet	17	18	17	22	22	22	20	17	18	7	10	9	19	22	20
30 to 40 Feet	14	15	15	16	16	16	12	11	11	10	14	12	19	20	19
40 to 50 Feet	11	11	11	5	7	6	7	12	9	14	16	15	18	10	14
50 to 60 Feet	7	8	8	2	3	3	5	6	5	13	14	13	10	9	9
60 to 70 Feet	3	5	4	1	2	2	2	2	2	5	10	8	4	4	4
70 to 80 Feet	2	3	2	1	0	1	1	2	2	3	5	4	2	3	3
80 to 90 Feet	2	1	2	0	1	1	1	1	1	4	2	3	1	1	1
90 to 100 Feet	1	1	1	1	1	1	1	1	1	3	1	2	0	1	1
above 100 Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
Mean height Feet	56	47	52	35	35	35	51	48	49	92	65	79	46	41	44

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			325			315			328			337			320
AVG station -N/Kft			13			12			14			15			12
AVG sfc wind Kts	13	13	13	14	15	15	12	12	12	11	10	11	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 47 15 N 39 49 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 34731 47 15 N 39 49 E
Radiosonde station height: 253 Feet
Surface obs source: MS177 45 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	0	0	0	0	1	1	0	1	1	0	1	0
1 GHz	18	14	16	8	7	8	18	19	19	35	21	28	9	9	9
3 GHz	21	18	19	9	9	9	20	23	22	43	27	35	11	12	12
6 GHz	33	32	33	14	15	14	28	34	31	63	54	59	27	27	27
10 GHz	58	58	58	35	38	37	46	55	51	87	82	84	63	56	60
20 GHz	75	75	75	57	61	59	66	70	68	93	92	93	82	77	80

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	7	5	1	0	1	3	11	7	4	11	8	2	5	4
AVG thickness Kft			.18			.17			.19			.12			.24
AVG trap freq GHz			1.5			2.7			1.0			1.3			1.1
AVG lyr grd -N/Kft			124			149			129			109			109

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	1	1	1	1	0	1	1	2	3	3	2	1	2
AVG top ht Kft			3.2			2.3			3.3			4.5			2.7
AVG thickness Kft			.42			.26			.70			.33			.39
AVG trap freq GHz			.65			.75			.26			1.2			.41
AVG lyr grd -N/Kft			78			87			99			60			67
AVG lyr base Kft			2.9			2.2			3.0			4.2			2.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	12	13	13	18	19	19	18	19	18	3	6	5	8	10	9
10 to 20 Feet	14	14	14	24	22	23	18	16	17	4	5	4	10	15	12
20 to 30 Feet	17	18	17	22	22	22	20	17	18	7	10	9	19	22	20
30 to 40 Feet	14	15	15	16	16	16	12	11	11	10	14	12	19	20	19
40 to 50 Feet	11	11	11	5	7	6	7	12	9	14	16	15	18	10	14
50 to 60 Feet	7	8	8	2	3	3	5	6	5	13	14	13	10	9	9
60 to 70 Feet	3	5	4	1	2	2	2	2	2	5	10	8	4	4	4
70 to 80 Feet	2	3	2	1	0	1	1	2	2	3	5	4	2	3	3
80 to 90 Feet	2	1	2	0	1	1	1	1	1	4	2	3	1	1	1
90 to 100 Feet	1	1	1	1	1	1	1	1	1	3	1	2	0	1	1
above 100 Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
Mean height Feet	56	47	52	35	35	35	51	48	49	92	65	79	46	41	44

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			319			312			321			325			317
AVG station -N/Kft			12			12			12			12			12
AVG sfc wind Kts	13	13	13	14	15	15	12	12	12	11	10	11	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 41 16 N 36 19 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 17030 41 16 N 36 19 E
Radiosonde station height: 144 Feet
Surface obs source: MS177 45 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	0	0	0	1	1	1	1	1	1	5	0	2
1 GHz	22	13	18	8	8	8	20	16	18	35	20	28	25	7	16
3 GHz	27	16	22	10	10	10	24	19	22	44	26	35	32	9	21
6 GHz	39	31	35	15	16	16	31	30	30	64	54	59	47	25	36
10 GHz	61	57	59	35	40	38	49	52	50	87	82	84	74	55	64
20 GHz	76	74	75	57	62	59	68	68	68	94	92	93	88	76	82

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	13	5	9	2	3	3	8	4	6	7	11	9	33	1	17
AVG thickness Kft			.34			.24			.36			.26			.49
AVG trap freq GHz			1.5			2.1			.77			2.3			.81
AVG lyr grd -N/Kft			110			135			101			106			98

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	12	9	0	2	1	3	10	7	16	26	21	3	11	7
AVG top ht Kft			4.7			6.7			2.5			5.1			4.6
AVG thickness Kft			.48			.23			.38			.65			.34
AVG trap freq GHz			1.6			2.3			.94			.23			.65
AVG lyr grd -N/Kft			61			66			54			60			63
AVG lyr base Kft			4.4			6.5			2.2			4.6			4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	12	13	13	18	19	19	18	19	18	3	6	5	8	10	9
10 to 20 Feet	14	14	14	24	22	23	18	16	17	4	5	4	10	15	12
20 to 30 Feet	17	18	17	22	22	22	20	17	18	7	10	9	19	22	20
30 to 40 Feet	14	15	15	16	16	16	12	11	11	10	14	12	19	20	19
40 to 50 Feet	11	11	11	5	7	6	7	12	9	14	16	15	18	10	14
50 to 60 Feet	7	8	8	2	3	3	5	6	5	13	14	13	10	9	9
60 to 70 Feet	3	5	4	1	2	2	2	2	2	5	10	8	4	4	4
70 to 80 Feet	2	3	2	1	0	1	1	2	2	3	5	4	2	3	3
80 to 90 Feet	2	1	2	0	1	1	1	1	1	4	2	3	1	1	1
90 to 100 Feet	1	1	1	1	1	1	1	1	1	3	1	2	0	1	1
above 100 Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
Mean height Feet	56	47	52	35	35	35	51	48	49	92	65	79	46	41	44

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			1			0			0			2			1
AVG station N			329			314			332			344			325
AVG station -N/Kft			13			12			15			15			12
AVG sfc wind Kts	13	13	13	14	15	15	12	12	12	11	10	11	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45 01 N 33 58 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 33946 45 01 N 33 58 E
Radiosonde station height: 919 Feet
Surface obs source: MS177 45 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	17	12	14	8	8	8	18	16	17	34	17	26	8	7	8
3 GHz	20	15	17	9	9	9	20	19	19	42	21	31	10	9	10
6 GHz	32	30	31	14	15	15	27	29	28	63	50	56	26	25	25
10 GHz	57	56	57	35	39	37	46	51	49	86	80	83	63	55	59
20 GHz	74	74	74	57	61	59	66	67	66	93	91	92	82	76	79

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	1	1	2	3	3	1	0	1	0	1	1
AVG thickness Kft			.39			.21			.31			.63			.40
AVG trap freq GHz			1.1			2.5			1.0			.28			.63
AVG lyr grd -N/Kft			110			162			85			68			124

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1
AVG top ht Kft			5.7			6.6			7.3			6.0			3.0
AVG thickness Kft			.26			.10			.35			.22			.35
AVG trap freq GHz			2.1			5.7			.84			1.3			.60
AVG lyr grd -N/Kft			70			60			91			69			58
AVG lyr base Kft			5.6			6.5			7.2			5.9			2.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	12	13	13	18	19	19	18	19	18	3	6	5	8	10	9
10 to 20 Feet	14	14	14	24	22	23	18	16	17	4	5	4	10	15	12
20 to 30 Feet	17	19	17	22	22	22	20	17	18	7	10	9	19	22	20
30 to 40 Feet	14	15	15	16	16	16	12	11	11	10	14	12	19	20	19
40 to 50 Feet	11	11	11	5	7	6	7	12	9	14	16	15	18	10	14
50 to 60 Feet	7	8	8	2	3	3	5	6	5	13	14	13	10	9	9
60 to 70 Feet	3	5	4	1	2	2	2	2	2	5	10	8	4	4	4
70 to 80 Feet	2	3	2	1	0	1	1	2	2	3	5	4	2	3	3
80 to 90 Feet	2	1	2	0	1	1	1	1	1	4	2	3	1	1	1
90 to 100 Feet	1	1	1	1	1	1	1	1	1	3	1	2	0	1	1
above 100 Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
Mean height Feet	56	47	52	35	35	35	51	48	49	92	65	79	46	41	44

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			312			304			311			322			310
AVG station -N/Kft			12			11			12			12			12
AVG sfc wind Kts	13	13	13	14	15	15	12	12	12	11	10	11	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 44 06 N 39 04 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 37018 44 06 N 39 04 E
Radiosonde station height: 315 Feet
Surface obs source: MS177 45 00 N 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
100 MHz	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1
1 GHz	19	14	15	8	9	8	20	18	19	36	19	28	11	10	11
3 GHz	23	18	20	9	11	10	23	21	22	45	24	34	14	14	14
6 GHz	35	33	34	14	17	15	31	32	31	65	52	59	30	30	30
10 GHz	59	58	59	35	40	37	49	53	51	87	81	84	65	58	61
20 GHz	75	75	75	57	62	59	68	69	68	94	91	92	83	78	80

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	7	7	7	1	4	3	9	9	9	9	6	8	7	10	9
AVG thickness Kft			.16			.14			.16			.19			.15
AVG trap freq GHz			1.8			2.6			1.6			1.5			1.6
AVG lyr grd -N/Kft			118			131			107			105			131

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	2	3	3	2	1	2	3	4	4	2	5	4	1	2	2
AVG top ht Kft			5.4			5.9			6.1			6.1			3.5
AVG thickness Kft			.27			.20			.28			.32			.30
AVG trap freq GHz			1.4			1.6			1.0			1.6			1.5
AVG lyr grd -N/Kft			60			72			52			55			60
AVG lyr base Kft			5.2			5.8			5.9			5.8			3.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
0 to 10 Feet	12	13	13	18	19	19	18	19	18	3	6	5	8	10	9
10 to 20 Feet	14	14	14	24	22	23	18	16	17	4	5	4	10	15	12
20 to 30 Feet	17	18	17	22	22	22	20	17	18	7	10	9	19	22	20
30 to 40 Feet	14	15	15	16	16	16	12	11	11	10	14	12	19	20	19
40 to 50 Feet	11	11	11	5	7	6	7	12	9	14	16	15	18	10	14
50 to 60 Feet	7	8	8	2	3	3	5	6	5	13	14	13	10	9	9
60 to 70 Feet	3	5	4	1	2	2	2	2	2	5	10	8	4	4	4
70 to 80 Feet	2	3	2	1	0	1	1	2	2	3	5	4	2	3	3
80 to 90 Feet	2	1	2	0	1	1	1	1	1	4	2	3	1	1	1
90 to 100 Feet	1	1	1	1	1	1	1	1	1	3	1	2	0	1	1
above 100 Feet	17	11	14	8	7	8	17	15	16	34	17	25	8	7	7
Mean height Feet	56	47	52	35	35	35	51	48	49	92	65	79	46	41	44

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			328			313			333			345			322
AVG station -N/Kft			14			12			14			16			13
AVG sfc wind Kts	13	13	13	14	15	15	12	12	12	11	10	11	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 44 13 N 28 37 E (≠) INDICATES INSUFFICIENT DATA
Radiosonde source : 15480 44 13 N 28 37 E
Radiosonde station height: 56 Feet
Surface obs source: MS178 45 00 N 25 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	0	0	0	1	2	1	1	3	2	1	1	1
1 GHz	32	22	27	11	10	11	39	32	35	49	31	40	28	16	22
3 GHz	36	27	31	13	12	12	41	37	39	57	39	48	32	19	26
6 GHz	49	42	45	19	17	18	49	49	49	76	63	69	53	37	45
10 GHz	68	64	66	40	38	39	64	67	65	89	83	86	80	69	74
20 GHz	81	79	80	63	61	62	76	80	78	94	91	93	90	84	87

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	10	8	2	3	3	4	12	8	8	17	13	6	8	7
AVG thickness Kft			.22			.17			.22			.28			.22
AVG trap freq GHz			1.0			1.5			.95			.65			1.1
AVG lyr grd -N/Kft			122			160			107			102			118

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	3	3	1	1	1	4	4	4	3	5	4	2	3	3
AVG top ht Kft			2.6			3.4			1.4			2.4			3.3
AVG thickness Kft			.40			.38			.32			.55			.35
AVG trap freq GHz			.89			.69			.91			.40			1.6
AVG lyr grd -N/Kft			60			75			56			54			55
AVG lyr base Kft			2.3			3.2			1.2			2.0			3.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	9	9	15	16	16	11	11	11	3	4	4	4	5	5
10 to 20 Feet	11	13	12	22	24	23	13	11	12	3	5	4	7	11	9
20 to 30 Feet	13	16	14	23	23	23	13	14	14	5	9	7	11	16	14
30 to 40 Feet	11	14	12	15	14	14	10	12	11	7	11	9	14	18	16
40 to 50 Feet	8	11	10	7	8	7	5	8	7	8	12	10	14	16	15
50 to 60 Feet	6	8	7	3	2	3	4	6	5	8	14	11	11	10	10
60 to 70 Feet	4	4	4	2	1	2	2	4	3	7	7	7	6	5	6
70 to 80 Feet	3	3	3	1	1	1	2	2	2	5	6	5	4	3	3
80 to 90 Feet	2	2	2	0	1	1	1	2	2	4	4	4	2	1	2
90 to 100 Feet	2	1	2	0	1	1	1	2	2	3	2	3	2	1	1
above 100 Feet	30	18	24	11	9	10	37	28	33	47	23	35	26	12	19
Mean height Feet	79	61	70	41	38	39	87	73	80	112	77	95	76	55	66

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			329			316			331			345			323
AVG station -N/Kft			14			12			14			15			13
AVG sfc wind Kts	12	11	11	13	12	13	11	11	11	11	10	10	12	11	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 46 58 N 29 04 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 17062 40 58 N 29 04 E
Radiosonde station height: 131 Feet
Surface obs source: MS178 45 00 N 25 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	0	0	0	0	2	1	1	2	1	0	1	0
1 GHz	31	21	26	11	9	10	38	33	35	49	29	39	26	14	20
3 GHz	35	25	30	12	10	11	41	38	39	56	37	46	30	16	23
6 GHz	48	40	44	18	15	17	48	49	49	75	61	68	51	35	43
10 GHz	68	64	66	39	36	38	63	67	65	89	82	86	79	68	73
20 GHz	80	78	79	63	60	61	76	80	78	94	91	92	90	84	87

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	7	5	1	0	1	2	11	7	6	13	10	1	3	2
AVG thickness Kft			.43			.42			.36			.38			.55
AVG trap freq GHz			.65			.88			.57			.65			.51
AVG lyr grd -N/Kft			139			157			113			157			129

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	9	7	4	4	4	0	8	4	11	14	13	3	8	6
AVG top ht Kft			3.4			3.2			2.7			3.1			4.7
AVG thickness Kft			.35			.31			.39			.41			.27
AVG trap freq GHz			.89			1.1			.62			.60			1.3
AVG lyr grd -N/Kft			57			56			62			54			57
AVG lyr base Kft			3.1			2.9			2.4			2.8			4.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	9	9	15	16	16	11	11	11	3	4	4	4	5	5
10 to 20 Feet	11	13	12	22	24	23	13	11	12	3	5	4	7	11	9
20 to 30 Feet	13	16	14	23	23	23	13	14	14	5	9	7	11	16	14
30 to 40 Feet	11	14	12	15	14	14	10	12	11	7	11	9	14	18	16
40 to 50 Feet	8	11	10	7	8	7	5	8	7	8	12	10	14	16	15
50 to 60 Feet	6	8	7	3	2	3	4	6	5	8	14	11	11	10	10
60 to 70 Feet	4	4	4	2	1	2	2	4	3	7	7	7	6	5	6
70 to 80 Feet	3	3	3	1	1	1	2	2	2	5	6	5	4	3	3
80 to 90 Feet	2	2	2	0	1	1	1	2	2	4	4	4	2	1	2
90 to 100 Feet	2	1	2	0	1	1	1	2	2	3	2	3	2	1	1
above 100 Feet	30	18	24	11	9	10	37	28	33	47	23	35	26	12	19
Mean height Feet	79	61	70	41	38	39	87	73	80	112	77	95	76	55	66

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			1			1			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			331			319			332			344			328
AVG station -N/Kft			15			12			16			17			13
AVG sfc wind Kts	12	11	11	13	12	13	11	11	11	11	10	10	12	11	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 40 31 N 22 58 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 16622 40 31 N 22 58 E
Radiosonde station height: 13 Feet
Surface obs source: MS178 45 00 N 25 00 E

PERCENT OCCURRENCE OF ENHANCE ?CE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	0	0	0	0	1	0	1	1	1	1	1	1
1 GHz	31	20	25	11	9	10	38	30	34	48	26	37	28	14	21
3 GHz	35	24	29	12	10	11	40	35	38	55	33	44	32	17	25
6 GHz	48	39	44	18	15	16	48	47	47	75	59	67	53	35	44
10 GHz	68	63	65	39	36	38	63	66	64	89	81	85	80	68	74
20 GHz	80	78	79	62	60	61	75	79	77	94	90	92	90	84	87

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	5	4	1	0	1	1	9	5	4	5	5	6	5	6
AVG thickness Kft			.30			.19			.28			.46			.28
AVG trap freq GHz			1.6			2.5			2.0			.39			1.3
AVG lyr grd -M/Kft			233			429			194			101			207

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	8	6	2	0	1	5	14	10	6	13	10	4	5	5
AVG top ht Kft			4.6			4.1			3.5			7.6			3.2
AVG thickness Kft			.26			.14			.29			.20			.39
AVG trap freq GHz			2.2			3.9			1.7			2.3			1.8
AVG lyr grd -M/Kft			60			56			62			62			59
AVG lyr base Kft			4.4			4.0			3.3			7.4			2.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	9	9	15	16	16	11	11	11	3	4	4	4	5	5
10 to 20 Feet	11	13	12	22	24	23	13	11	12	3	5	4	7	11	9
20 to 30 Feet	13	16	14	23	23	23	13	14	14	5	9	7	11	16	14
30 to 40 Feet	11	14	12	15	14	14	10	12	11	7	11	9	14	18	16
40 to 50 Feet	8	11	10	7	8	7	5	8	7	8	12	10	14	16	15
50 to 60 Feet	6	8	7	3	2	3	4	6	5	8	14	11	11	10	10
60 to 70 Feet	4	4	4	2	1	2	2	4	3	7	7	7	6	5	6
70 to 80 Feet	3	3	3	1	1	1	2	2	2	5	6	5	4	3	3
80 to 90 Feet	2	2	2	0	1	1	1	2	2	4	4	4	2	1	2
90 to 100 Feet	2	1	2	0	1	1	1	2	2	3	2	3	2	1	1
above 100 Feet	30	18	24	11	9	10	37	28	33	47	23	35	26	12	19
Mean height Feet	79	61	70	41	38	39	87	73	80	112	77	95	76	55	66

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			0			1			1
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			323			314			321			331			325
AVG station -N/Kft			12			11			12			13			13
AVG sfc wind Kts	12	11	11	13	12	13	11	11	11	11	10	10	12	11	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 40 39 N 17 57 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 16320 40 39 N 17 57 E
Radiosonde station height: 23 Feet
Surface obs source: MS179 45 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	2	3	0	0	0	4	2	3	9	6	8	1	0	1
1 GHz	46	25	35	26	9	18	60	37	48	68	43	55	29	9	19
3 GHz	50	28	39	30	10	20	64	42	53	74	49	61	34	12	23
6 GHz	65	42	54	46	23	35	74	52	63	83	63	73	55	31	43
10 GHz	81	67	74	70	54	62	85	70	78	91	81	86	78	62	70
20 GHz	89	81	85	84	75	79	90	81	85	94	89	92	90	80	85

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	18	11	14	4	3	4	20	13	17	37	24	31	9	4	7
AVG thickness Kft			.39			.19			.49			.59			.30
AVG trap freq GHz			1.1			2.7			.41			.26			1.1
AVG lyr grd -N/Kft			108			191			80			74			88

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	11	14	13	5	6	6	9	11	10	18	26	22	12	13	13
AVG top ht Kft			2.7			3.3			2.0			2.1			3.6
AVG thickness Kft			.40			.23			.44			.46			.49
AVG trap freq GHz			.68			1.4			.48			.50			.38
AVG lyr grd -N/Kft			54			53			53			53			59
AVG lyr base Kft			2.4			3.1			1.6			1.7			3.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	6	7	6	8	8	8	6	10	8	5	5	5	4	6	5
10 to 20 Feet	7	14	10	9	17	13	5	13	9	5	10	7	8	15	11
20 to 30 Feet	9	16	13	14	22	18	6	12	9	5	11	8	12	19	15
30 to 40 Feet	10	15	13	14	19	16	8	12	10	6	12	9	13	18	15
40 to 50 Feet	9	11	10	11	12	11	6	8	7	5	11	8	12	14	13
50 to 60 Feet	7	7	7	9	7	8	4	5	4	5	7	6	11	10	11
60 to 70 Feet	5	5	5	4	4	4	4	3	4	5	7	6	7	6	6
70 to 80 Feet	4	3	3	3	2	3	3	2	3	4	5	5	4	3	4
80 to 90 Feet	2	2	2	2	1	1	2	2	2	3	2	3	2	2	2
90 to 100 Feet	2	1	1	1	0	1	1	1	1	2	2	2	2	1	1
above 100 Feet	39	19	29	25	8	17	53	31	42	54	29	41	25	8	17
Mean height Feet	97	62	80	73	43	58	118	79	98	120	81	101	78	46	62

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			1			3			1
% occur 2+ EL dcts			1			0			0			2			0
AVG station N			341			327			341			360			336
AVG station -N/Kft			17			14			18			22			16
AVG sfc wind Kts	9.3	8.4	8.8	11	10	10	8.7	7.3	8.0	8.1	6.6	7.3	10	9.5	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 41 48 N 12 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 16242 41 48 N 12 13 E
Radiosonde station height: 7 Feet
Surface obs source: MS179 45 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	3	2	0	0	0	1	3	2	3	7	5	0	0	0
1 GHz	41	25	33	26	9	17	54	37	46	58	46	52	26	8	17
3 GHz	45	29	37	29	10	20	58	42	50	63	53	58	31	11	21
6 GHz	61	43	52	45	23	34	69	52	60	76	66	71	53	30	42
10 GHz	79	67	73	69	54	62	82	70	76	87	82	84	77	62	69
20 GHz	88	81	85	84	75	79	88	81	85	91	90	91	89	80	84

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	12	8	1	3	2	4	14	9	11	30	21	2	2	2
AVG thickness Kft			.41			.27			.47			.60			.30
AVG trap freq GHz			1.0			2.0			.47			.26			1.1
AVG lyr grd -N/Kft			98			112			104			76			99

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	12	9	2	4	3	6	9	8	11	21	16	8	12	10
AVG top ht Kft			3.4			4.5			2.3			2.7			4.8
AVG thickness Kft			.37			.27			.40			.49			.33
AVG trap freq GHz			.73			.91			1.0			.38			.65
AVG lyr grd -N/Kft			57			57			57			59			55
AVG lyr base Kft			3.1			4.3			2.0			2.4			3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	6	7	6	8	8	8	6	10	8	5	5	5	4	6	5
10 to 20 Feet	7	14	10	9	17	13	5	13	9	5	10	7	8	15	11
20 to 30 Feet	9	16	13	14	22	18	6	12	9	5	11	8	12	19	15
30 to 40 Feet	10	15	13	14	19	16	8	12	10	6	12	9	13	18	15
40 to 50 Feet	9	11	10	11	12	11	6	8	7	5	11	8	12	14	13
50 to 60 Feet	7	7	7	9	7	8	4	5	4	5	7	6	11	10	11
60 to 70 Feet	5	5	5	4	4	4	4	3	4	5	7	6	7	6	6
70 to 80 Feet	4	3	3	3	2	3	3	2	3	4	5	5	4	3	4
80 to 90 Feet	2	2	2	2	1	1	2	2	2	3	2	3	2	2	2
90 to 100 Feet	2	1	1	1	0	1	1	1	1	2	2	2	2	1	1
above 100 Feet	39	19	29	25	8	17	53	31	42	54	29	41	25	8	17
Mean height Feet	97	62	80	73	43	58	118	79	98	120	81	101	78	46	62

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			1			3			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			336			323			338			354			330
AVG station -N/Kft			16			13			17			21			14
AVG sfc wind Kts	9.3	8.4	8.8	11	10	10	8.7	7.3	8.0	8.1	6.6	7.3	10	9.5	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 41 55 N 8 48 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 7761 41 55 N 8 48 E
Radiosonde station height: 30 feet
Surface obs source: MS180 45 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	0	2	6	1	0	3	0	2	8	0	4	1	0	1
1 GHz	32	13	23	20	9	14	38	17	27	52	20	36	19	8	14
3 GHz	38	17	27	24	12	18	44	20	32	59	25	42	26	10	18
6 GHz	55	33	44	40	25	33	57	33	45	72	42	57	50	30	40
10 GHz	74	59	66	68	55	61	72	55	63	83	64	73	74	61	68
20 GHz	83	73	78	81	72	76	79	70	75	87	75	81	84	75	80

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	2	9	4	6	5	19	0	10	32	0	16	9	0	5
AVG thickness Kft			.34			.23			.37			.49			.27
AVG trap freq GHz			1.1			2.8			.52			.29			.90
AVG lyr grd -N/Kft			119			227			80			73			95

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	0	4	4	0	2	8	0	4	16	0	8	5	0	3
AVG top ht Kft			3.5			3.4			3.4			3.6			4.4
AVG thickness Kft			.35			.37			.35			.44			.22
AVG trap freq GHz			1.2			1.6			.71			.43			2.0
AVG lyr grd -N/Kft			57			63			55			56			53
AVG lyr base Kft			3.3			3.1			3.1			2.6			4.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	12	13	13	10	14	12	18	16	17	12	12	12	10	12	11
10 to 20 Feet	8	14	11	10	16	13	8	14	11	7	14	10	8	13	10
20 to 30 Feet	10	14	12	13	18	16	9	15	12	6	10	8	11	14	12
30 to 40 Feet	11	14	13	15	17	16	9	13	11	8	10	9	13	17	15
40 to 50 Feet	11	12	11	13	13	13	8	9	9	8	12	10	14	15	14
50 to 60 Feet	8	8	8	9	8	9	6	6	6	7	8	7	12	10	11
60 to 70 Feet	6	5	5	5	4	4	5	4	5	6	6	6	8	6	7
70 to 80 Feet	4	3	3	3	2	2	3	2	3	5	4	4	5	3	4
80 to 90 Feet	3	2	2	2	1	1	3	1	2	4	3	3	3	2	2
90 to 100 Feet	2	1	2	2	1	1	2	1	2	3	2	2	2	1	2
above 100 Feet	24	13	19	19	7	13	29	17	23	35	20	27	15	8	12
Mean height Feet	72	52	62	62	42	52	75	55	65	88	63	76	61	47	54

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			1			2			0
% occur 2+ EL dcts			1			0			1			2			0
AVG station N			338			322			340			360			330
AVG station -N/Kft			14			12			15			19			13
AVG sfc wind Kts	12	10	11	13	12	13	11	9.2	10	10	8.6	9.1	14	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 52 07 N 4 34 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 3502 52 07 N 4 34 W
Radiosonde station height: 433 Feet
Surface obs source: MS181 55 00 N 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	0	0	2	0	1	2	0	1	1	0	0
1 GHz	10	3	7	4	1	3	15	4	9	16	5	11	6	2	4
3 GHz	14	4	9	6	1	3	19	5	12	21	7	14	9	2	5
6 GHz	21	8	15	10	3	6	26	9	17	32	15	24	18	7	12
10 GHz	46	32	39	33	23	28	43	23	33	54	40	47	51	40	45
20 GHz	66	56	61	60	53	56	61	45	53	71	62	66	74	66	70

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	13	0	7	8	0	4	17	0	9	18	0	9	10	0	5
AVG thickness Kft			.16			.15			.18			.16			.14
AVG trap freq GHz			2.0			2.2			1.7			1.9			2.1
AVG lyr grd -N/Kft			85			91			80			77			93

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	0	4	5	0	3	8	0	4	13	0	7	7	0	4
AVG top ht Kft			4.1			3.8			4.0			4.9			3.6
AVG thickness Kft			.25			.16			.21			.38			.25
AVG trap freq GHz			1.7			3.9			1.3			.48			1.1
AVG lyr grd -N/Kft			56			56			53			58			58
AVG lyr base Kft			3.9			3.7			3.8			4.6			3.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	18	20	19	17	18	18	23	28	25	18	20	19	12	14	13
10 to 20 Feet	20	24	22	26	28	27	22	28	25	16	19	18	16	20	18
20 to 30 Feet	22	25	24	28	30	29	20	21	21	18	21	20	24	27	25
30 to 40 Feet	18	17	17	19	17	18	13	11	12	15	17	16	23	22	23
40 to 50 Feet	8	7	7	6	4	5	6	4	5	10	8	9	13	10	11
50 to 60 Feet	4	3	4	2	1	2	3	2	2	6	5	5	5	4	5
60 to 70 Feet	2	1	1	1	0	0	2	1	1	3	2	2	2	1	1
70 to 80 Feet	1	1	1	0	0	0	1	1	1	2	1	2	1	1	1
80 to 90 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	0
90 to 100 Feet	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0
above 100 Feet	6	3	4	1	1	1	9	4	6	10	5	8	3	2	2
Mean height Feet	34	27	30	26	22	24	36	25	30	41	32	37	32	29	31

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			2			1			0
% occur 2+ EL dcts			1			0			1			1			0
AVG station N			321			313			321			331			319
AVG station -N/Kft			14			13			14			15			14
AVG sfc wind Kts	16	15	16	19	19	19	13	13	13	13	13	13	19	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 50 13 N 5 19 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 3808 50 13 N 5 19 W
Radiosonde station height: 285 Feet
Surface obs source: MS181 55 00 N 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0
1 GHz	8	5	6	2	2	2	11	6	8	14	8	11	4	3	3
3 GHz	10	7	8	3	3	3	13	8	11	18	11	15	5	4	5
6 GHz	17	12	14	6	5	6	19	12	16	29	20	24	14	10	12
10 GHz	42	34	38	31	25	28	38	27	32	52	44	48	49	41	45
20 GHz	64	58	61	58	54	56	57	47	52	69	64	67	72	67	70

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	6	6	3	4	4	6	6	6	12	8	10	4	4	4
AVG thickness Kft			.16			.15			.19			.18			.12
AVG trap freq GHz			2.2			2.3			1.8			1.7			3.0
AVG lyr grd -N/Kft			109			106			145			80			106

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	11	11	11	7	6	7	10	11	11	18	16	17	9	9	9
AVG top ht Kft			3.5			3.5			3.6			3.6			3.1
AVG thickness Kft			.29			.26			.24			.34			.31
AVG trap freq GHz			1.0			.87			1.8			.60			.89
AVG lyr grd -N/Kft			55			58			53			55			56
AVG lyr base Kft			3.2			3.3			3.4			3.3			2.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	18	20	19	17	18	18	23	28	25	18	20	19	12	14	13
10 to 20 Feet	20	24	22	26	28	27	22	28	25	16	19	18	16	20	18
20 to 30 Feet	22	25	24	28	30	29	20	21	21	18	21	20	24	27	25
30 to 40 Feet	18	17	17	19	17	18	13	11	12	15	17	16	23	22	23
40 to 50 Feet	8	7	7	6	4	5	6	4	5	10	8	9	13	10	11
50 to 60 Feet	4	3	4	2	1	2	3	2	2	6	5	5	5	4	5
60 to 70 Feet	2	1	1	1	0	0	2	1	1	3	2	2	2	1	1
70 to 80 Feet	1	1	1	0	0	0	1	1	1	2	1	2	1	1	1
80 to 90 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	0
90 to 100 Feet	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0
above 100 Feet	6	3	4	1	1	1	9	4	6	10	5	8	3	2	2
Mean height Feet	34	27	30	26	22	24	36	25	30	41	32	37	32	29	31

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			1			2			0
% occur 2+ EL dcts			1			0			0			2			0
AVG station N			326			318			326			336			324
AVG station -N/Kft			14			13			14			16			14
AVG sfc wind Kts	16	15	16	19	19	19	13	13	13	13	13	13	19	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 51 04 N 0 13 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 3774 51 04 N 0 13 W
Radiosonde station height: 472 Feet
Surface obs source: MS181 55 00 N 5 00 W

PEPCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM CON RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	0	0	0	0	0	1	1	1	1	1	0	0	0
1 GHz	7	5	6	2	2	2	10	7	8	13	9	11	4	3	3
3 GHz	9	7	8	3	3	3	12	9	10	16	12	14	5	4	4
6 GHz	16	12	14	6	5	5	18	13	15	26	21	24	13	10	11
10 GHz	41	35	38	30	25	27	36	28	32	50	45	48	49	41	45
20 GHz	63	59	61	57	54	56	56	48	52	68	65	66	72	67	70

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	6	5	2	3	3	3	8	6	7	10	9	3	4	4
AVG thickness Kft			.16			.12			.20			.21			.12
AVG trap freq GHz			2.2			2.3			1.9			1.7			2.8
AVG lyr grd -N/Kft			112			120			145			71			112

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	9	8	3	6	5	7	9	8	14	12	13	5	7	6
AVG top ht Kft			3.7			3.3			3.9			4.0			3.6
AVG thickness Kft			.27			.21			.28			.31			.29
AVG trap freq GHz			1.0			1.4			.90			.76			1.1
AVG lyr grd -N/Kft			57			61			57			56			56
AVG lyr base Kft			3.5			3.1			3.7			3.8			3.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	18	20	19	17	18	18	23	28	25	18	20	19	12	14	13
10 to 20 Feet	20	24	22	26	28	27	22	28	25	16	19	18	16	20	19
20 to 30 Feet	22	25	24	28	30	29	20	21	21	18	21	20	24	27	25
30 to 40 Feet	18	17	17	19	17	18	13	11	12	15	17	16	23	22	23
40 to 50 Feet	8	7	7	6	4	5	6	4	5	10	8	9	13	10	11
50 to 60 Feet	4	3	4	2	1	2	3	2	2	6	5	5	5	4	5
60 to 70 Feet	2	1	1	1	0	0	2	1	1	3	2	2	2	1	1
70 to 80 Feet	1	1	1	0	0	0	1	1	1	2	1	2	1	1	1
80 to 90 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	0
90 to 100 Feet	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0
above 100 Feet	6	3	4	1	1	1	9	4	6	10	5	8	3	2	2
Mean height Feet	34	27	30	26	22	24	36	25	30	41	32	37	32	29	31

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			1			0			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			322			315			320			332			319
AVG station -N/Kft			14			13			13			15			13
AVG sfc wind Kts	16	15	16	19	19	19	13	13	13	13	13	13	19	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 54 28 N 6 06 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 3920 54 28 N 6 06 W
Radiosonde station height: 125 Feet
Surface obs source: MS181 55 00 N 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	0	0	0	1	0	1	1	1	1	1	0	1
1 GHz	8	5	7	2	1	2	11	5	8	15	9	12	5	4	4
3 GHz	11	7	9	3	2	2	14	7	10	20	12	16	7	5	6
6 GHz	18	12	15	6	4	5	20	11	15	30	21	26	15	10	13
10 GHz	43	34	39	31	24	27	38	26	32	53	45	49	50	42	46
20 GHz	64	58	61	58	53	56	57	47	52	70	65	67	73	67	70

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	6	7	3	2	3	7	5	6	14	10	12	6	5	6
AVG thickness Kft			.17			.13			.15			.20			.19
AVG trap freq GHz			2.5			3.9			2.4			1.6			2.0
AVG lyr grd -N/Kft			106			117			155			81			79

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	7	7	4	4	4	7	7	7	10	12	11	5	5	5
AVG top ht Kft			3.7			3.9			2.7			3.9			4.2
AVG thickness Kft			.23			.25			.19			.30			.19
AVG trap freq GHz			1.4			1.5			2.0			.89			1.2
AVG lyr grd -N/Kft			58			58			54			56			63
AVG lyr base Kft			3.5			3.7			2.6			3.7			4.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	18	20	19	17	18	18	23	28	25	18	20	19	12	14	13
10 to 20 Feet	20	24	22	26	28	27	22	28	25	16	19	18	16	20	18
20 to 30 Feet	22	25	24	28	30	29	20	21	21	18	21	20	24	27	25
30 to 40 Feet	18	17	17	19	17	18	13	11	12	15	17	16	23	22	23
40 to 50 Feet	8	7	7	6	4	5	6	4	5	10	8	9	13	10	11
50 to 60 Feet	4	3	4	2	1	2	3	2	2	6	5	5	5	4	5
60 to 70 Feet	2	1	1	1	0	0	2	1	1	3	2	2	2	1	1
70 to 80 Feet	1	1	1	0	0	0	1	1	1	2	1	2	1	1	1
80 to 90 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	0
90 to 100 Feet	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0
above 100 Feet	6	3	4	1	1	1	9	4	6	10	5	8	3	2	2
Mean height Feet	34	27	30	26	22	24	36	25	30	41	32	37	32	29	31

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			1			1			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			325			319			324			334			322
AVG station -N/Kft			14			13			14			15			14
AVG sfc wind Kts	16	15	16	19	19	19	13	13	13	13	13	13	19	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 56 25 N 2 52 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 3170 56 25 N 2 52 W
Radiosonde station height: 16 Feet
Surface obs source: MS181 55 00 N 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
1 GHz	7	4	6	2	2	2	10	5	8	13	7	10	4	3	3
3 GHz	9	6	7	2	2	2	13	7	10	17	10	13	5	3	4
6 GHz	16	11	13	5	4	5	19	11	15	27	19	23	13	9	11
10 GHz	41	34	38	30	24	27	37	26	32	51	43	47	49	41	45
20 GHz	63	58	61	57	54	55	56	47	52	68	63	66	72	67	69

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	4	4	1	3	2	5	5	5	9	6	8	3	3	3
AVG thickness Kft			.16			.12			.22			.17			.14
AVG trap freq GHz			2.8			4.6			2.5			2.0			2.2
AVG lyr grd -N/Kft			102			165			75			99			68

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	6	5	2	4	3	5	6	6	5	8	7	4	4	4
AVG top ht Kft			4.2			4.0			3.7			4.5			4.7
AVG thickness Kft			.22			.20			.26			.24			.20
AVG trap freq GHz			1.3			1.8			1.0			1.0			1.4
AVG lyr grd -N/Kft			56			54			58			59			54
AVG lyr base Kft			4.1			3.9			3.5			4.3			4.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	18	20	19	17	18	18	23	28	25	18	20	19	12	14	13
10 to 20 Feet	20	24	22	26	28	27	22	28	25	16	19	18	16	20	18
20 to 30 Feet	22	25	24	28	30	29	20	21	21	18	21	20	24	27	25
30 to 40 Feet	18	17	17	19	17	18	13	11	12	15	17	16	23	22	23
40 to 50 Feet	8	7	7	6	4	5	6	4	5	10	8	9	13	10	11
50 to 60 Feet	4	3	4	2	1	2	3	2	2	6	5	5	5	4	5
60 to 70 Feet	2	1	1	1	0	0	2	1	1	3	2	2	2	1	1
70 to 80 Feet	1	1	1	0	0	0	1	1	1	2	1	2	1	1	1
80 to 90 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	0
90 to 100 Feet	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0
above 100 Feet	6	3	4	1	1	1	9	4	6	10	5	3	3	2	2
Mean height Feet	34	27	30	26	22	24	36	25	30	41	32	37	32	29	31

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SD dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			322			316			323			331			319
AVG station -N/Kft			13			12			13			14			13
AVG sfc wind Kts	16	15	16	19	19	19	13	13	13	13	13	13	19	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 58 13 N 6 19 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 3026 58 13 N 6 19 W
Radiosonde station height: 43 Feet
Surface obs source: MS181 55 09 N 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	0	0	0	1	1	1	1	0	1	1	0	1
1 GHz	8	4	6	3	2	2	11	6	9	13	7	10	5	3	4
3 GHz	10	6	8	4	2	3	14	8	11	16	9	13	7	4	6
6 GHz	17	11	14	7	4	5	21	12	16	26	18	22	16	10	13
10 GHz	43	34	38	31	24	28	39	27	33	50	43	46	50	42	46
20 GHz	64	58	61	58	53	56	58	47	53	68	63	65	73	67	70

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	5	6	4	2	3	9	6	8	8	5	7	7	5	6
AVG thickness Kft			.15			.14			.18			.14			.14
AVG trap freq GHz			2.5			2.5			2.6			2.1			2.7
AVG lyr grd -N/Kft			117			114			120			95			137

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	4	4	2	2	2	4	4	4	7	6	7	2	2	2
AVG top ht Kft			3.0			2.7			1.8			3.2			4.0
AVG thickness Kft			.18			.19			.11			.24			.18
AVG trap freq GHz			2.1			2.1			3.4			1.0			1.9
AVG lyr grd -N/Kft			56			63			48			59			55
AVG lyr base Kft			2.8			2.6			1.7			3.1			3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	18	20	19	17	18	18	23	28	25	13	20	19	12	14	13
10 to 20 Feet	20	24	22	26	28	27	22	28	25	16	19	18	16	20	18
20 to 30 Feet	22	25	24	28	30	29	20	21	21	18	21	20	24	27	25
30 to 40 Feet	18	17	17	19	17	18	13	11	12	15	17	16	23	22	23
40 to 50 Feet	8	7	7	6	4	5	6	4	5	10	8	9	13	10	11
50 to 60 Feet	4	3	4	2	1	2	3	2	2	6	5	5	5	4	5
60 to 70 Feet	2	1	1	1	0	0	2	1	1	3	2	2	2	1	1
70 to 80 Feet	1	1	1	0	0	0	1	1	1	2	1	2	1	1	1
80 to 90 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	0
90 to 100 Feet	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0
above 100 Feet	6	3	4	1	1	1	9	4	6	10	5	8	3	2	2
Mean height Feet	34	27	30	26	22	24	36	25	30	41	32	37	32	25	31

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			323			317			324			331			323
AVG station -N/Kft			13			13			14			14			13
AVG sfc wind Kts	16	15	16	19	19	19	13	13	13	13	13	13	19	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 57 54 N 15 48 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YI 57 54 N 15 48 W
Radiosonde station height: 39 Feet
Surface obs source: MS182 55 00 N 15 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0
1 GHz	6	3	4	2	2	2	7	3	5	10	3	7	4	3	3
3 GHz	7	4	6	3	3	3	8	4	6	13	5	9	5	4	5
6 GHz	16	9	12	9	6	8	16	8	12	24	11	17	14	12	13
10 GHz	46	38	42	45	41	43	43	30	37	49	36	43	47	44	45
20 GHz	67	62	65	70	69	70	63	56	59	67	58	62	69	67	68

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	5	5	4	5	5	3	3	3	9	4	7	4	7	6
AVG thickness Kft			.17			.18			.16			.17			.15
AVG trap freq GHz			2.1			1.9			2.3			1.9			2.4
AVG lyr grd -N/Kft			101			88			111			99			104

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	3	4	2	2	2	5	4	5	6	5	6	3	2	3
AVG top ht Kft			4.2			5.3			3.9			3.6			4.1
AVG thickness Kft			.25			.24			.18			.29			.29
AVG trap freq GHz			1.1			1.2			1.2			.72			1.3
AVG lyr grd -N/Kft			59			59			64			57			57
AVG lyr base Kft			4.0			5.1			3.7			3.4			3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	17	19	18	14	14	14	19	22	21	20	22	21	16	16	16
10 to 20 Feet	17	20	19	16	18	17	19	24	21	16	21	19	16	18	17
20 to 30 Feet	22	25	24	26	28	27	21	25	23	19	23	21	22	24	23
30 to 40 Feet	19	20	20	24	26	25	18	17	17	16	17	17	20	22	21
40 to 50 Feet	12	9	10	13	10	11	10	6	8	11	8	10	14	11	13
50 to 60 Feet	5	3	4	4	3	4	4	2	3	6	4	5	6	5	5
60 to 70 Feet	2	1	2	1	1	1	2	1	1	2	2	2	2	1	2
70 to 80 Feet	1	0	1	0	0	0	1	1	1	2	1	1	1	1	1
80 to 90 Feet	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
above 100 Feet	4	1	3	1	0	0	6	2	4	7	2	4	2	1	2
Mean height Feet	33	26	29	28	26	27	34	25	30	37	26	32	31	27	29

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			321			316			322			330			317
AVG station -N/Kft			13			12			13			14			13
AVG sfc wind Kts	19	18	19	23	23	23	16	16	16	15	15	15	21	20	20

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 52 18 N 20 12 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YJ 52 18 N 20 12 W
Radiosonde station height: 39 Feet
Surface obs source: MS183 55 00 N 25 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
1 GHz	4	2	3	2	2	2	4	2	3	6	3	4	3	3	3
3 GHz	5	3	4	3	3	3	5	3	4	9	4	6	4	4	4
6 GHz	13	9	11	10	10	10	11	6	8	17	9	13	14	11	12
10 GHz	47	43	45	52	52	52	43	35	39	42	36	39	51	48	50
20 GHz	68	67	67	74	76	75	63	60	62	62	59	61	73	71	72

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	4	4	4	5	5	1	2	2	5	3	4	5	6	6
AVG thickness Kft			.19			.21			.20			.21			.14
AVG trap freq GHz			2.0			1.9			2.1			1.5			2.1
AVG lyr grd -N/Kft			122			164			181			74			68

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	8	8	5	6	6	7	9	8	13	11	12	9	7	8
AVG top ht Kft			4.4			4.9			4.2			4.2			4.4
AVG thickness Kft			.30			.29			.30			.31			.28
AVG trap freq GHz			.72			.69			.66			.67			.85
AVG lyr grd -N/Kft			57			56			56			56			62
AVG lyr base Kft			4.2			4.6			4.0			4.0			4.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	17	17	17	12	11	11	18	19	19	21	23	22	15	15	15
10 to 20 Feet	16	18	17	14	15	14	18	21	20	18	19	19	13	15	14
20 to 30 Feet	22	24	23	23	25	24	21	26	23	21	23	22	22	24	23
30 to 40 Feet	22	23	22	26	28	27	20	21	21	17	18	17	24	25	24
40 to 50 Feet	13	12	12	16	15	15	12	8	10	9	9	9	15	14	14
50 to 60 Feet	6	4	5	6	5	6	4	2	3	5	5	5	7	6	7
60 to 70 Feet	1	1	1	1	1	1	1	1	1	2	1	2	2	1	1
70 to 80 Feet	1	0	0	0	0	0	1	0	0	1	0	1	1	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
above 100 Feet	2	1	2	0	1	0	4	2	3	4	1	3	1	1	1
Mean height Feet	31	27	29	30	29	30	32	26	29	32	26	29	30	28	29

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			1			0			0			1			1
AVG station N			327			321			326			335			325
AVG station -N/Kft			14			13			13			15			14
AVG sfc wind Kts	20	20	20	24	24	24	17	17	17	16	16	16	23	22	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 52 42 N 35 30 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YC 52 42 N 35 30 W
Radiosonde station height: 39 Feet
Surface obs source: MS184 55 00 N 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
1 GHz	4	2	3	1	2	1	6	2	4	7	2	4	1	1	1
3 GHz	5	2	4	1	3	2	8	3	5	9	3	6	1	1	1
6 GHz	9	5	7	4	5	4	13	5	9	14	7	10	6	4	5
10 GHz	32	27	29	29	29	29	34	23	28	33	27	30	33	29	31
20 GHz	55	50	52	57	56	57	54	45	49	49	46	47	58	54	56

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	2	3	2	4	3	4	1	3	7	2	5	1	2	2
AVG thickness Kft			.22			.15			.17			.31			.24
AVG trap freq GHz			2.3			2.2			2.7			1.7			2.5
AVG lyr grd -N/Kft			142			135			173			99			161

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	23	21	11	12	12	20	25	23	27	33	30	20	23	22
AVG top ht Kft			4.5			4.9			4.3			4.2			4.8
AVG thickness Kft			.32			.25			.33			.41			.31
AVG trap freq GHz			.59			.92			.51			.43			.50
AVG lyr grd -N/Kft			61			58			66			60			60
AVG lyr base Kft			4.3			4.7			4.1			3.8			4.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	26	27	26	22	22	22	27	29	28	33	32	33	23	23	23
10 to 20 Feet	20	24	22	20	23	22	21	26	24	21	23	22	19	23	21
20 to 30 Feet	23	24	23	28	28	28	21	22	21	17	19	18	26	25	25
30 to 40 Feet	16	16	16	19	18	19	15	14	15	13	14	13	18	18	18
40 to 50 Feet	7	6	6	6	6	6	6	4	5	7	6	7	8	6	7
50 to 60 Feet	3	2	2	2	1	2	3	2	2	3	2	3	4	2	3
60 to 70 Feet	1	1	1	0	0	0	1	0	1	1	1	1	1	1	1
70 to 80 Feet	1	0	0	0	0	0	1	0	1	1	0	1	0	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
above 100 Feet	3	1	2	0	0	0	5	2	3	4	1	3	1	0	1
Mean height Feet	25	22	24	22	22	22	29	21	25	26	21	24	24	22	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			2			1			3			4			2
AVG station N			322			315			320			332			321
AVG station -N/Kft			13			12			12			14			12
AVG sfc wind Kts	19	19	19	23	23	23	16	16	16	16	16	15	22	21	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 55 00 N 45 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YB 56 30 N 51 00 W
Radiosonde station height: 39 Feet
Surface obs source: MS185 55 00 N 45 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	1	2	2	1	1	3	1	2	6	4	5	1	0	1
3 GHz	4	2	3	3	2	2	4	1	2	7	5	6	2	0	1
6 GHz	7	4	5	4	3	4	7	1	4	12	8	10	5	2	3
10 GHz	24	19	22	23	17	20	20	13	16	29	25	27	26	19	23
20 GHz	48	44	46	53	50	51	39	38	38	45	46	45	53	44	49

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	4	3	4	0	0	0	3	4	4	2	0	1
AVG thickness Kft			.16			.13			.10			.22			.18
AVG trap freq GHz			3.4			3.9			7.0			1.2			1.4
AVG lyr grd -N/Kft			118			79			149			129			113

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	17	16	7	4	6	18	22	20	20	27	24	10	16	13
AVG top ht Kft			3.7			3.6			3.3			*			4.1
AVG thickness Kft			.26			.18			.27			.36			.21
AVG trap freq GHz			1.1			1.6			.86			.45			1.6
AVG lyr grd -N/Kft			57			54			63			*			53
AVG lyr base Kft			3.4			3.5			3.1			3.3			3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	27	27	27	20	19	19	31	32	31	34	31	33	22	24	23
10 to 20 Feet	27	30	28	29	33	31	30	30	30	22	26	24	25	31	28
20 to 30 Feet	23	26	25	30	33	32	19	25	22	17	21	19	27	25	26
30 to 40 Feet	13	11	12	14	11	13	9	9	9	11	12	12	16	13	15
40 to 50 Feet	5	4	4	5	2	4	3	3	3	5	5	5	6	4	5
50 to 60 Feet	2	1	1	1	0	1	2	0	1	3	2	2	2	1	2
60 to 70 Feet	1	0	1	0	0	0	1	0	1	1	1	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
above 100 Feet	2	1	1	0	0	0	3	1	2	5	2	3	1	0	0
Mean height Feet	23	20	21	21	19	20	22	17	20	25	22	23	22	20	21

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			2			0			1			4			1
AVG station N			311			311			295			323			313
AVG station -N/Kft			10			11			5.5			14			11
AVG sfc wind Kts	20	19	20	26	25	25	17	16	17	15	15	15	23	21	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 56 30 N 51 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YB 56 30 N 51 00 W
Radiosonde station height: 39 Feet
Surface obs source: MS186 55 00 N 55 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	2	3	1	1	1	3	2	3	6	3	5	3	1	2
3 GHz	5	2	3	2	2	2	5	2	3	8	4	6	4	1	2
6 GHz	6	3	5	3	2	3	7	3	5	11	6	8	6	1	3
10 GHz	13	8	10	6	6	6	12	6	9	19	12	16	13	8	10
20 GHz	27	23	25	23	29	26	23	14	19	31	24	28	30	25	27

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	4	3	4	0	0	0	3	4	4	2	0	1
AVG thickness Kft			.16			.13			.10			.22			.18
AVG trap freq GHz			3.4			3.9			7.0			1.2			1.4
AVG lyr grd -N/Kft			118			79			149			129			113

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	17	16	7	4	6	18	22	20	20	27	24	10	16	13
AVG top ht Kft			3.7			3.6			3.3			*			4.1
AVG thickness Kft			.26			.18			.27			.36			.21
AVG trap freq GHz			1.1			1.6			.86			.45			1.6
AVG lyr grd -N/Kft			57			54			63			*			53
AVG lyr base Kft			3.4			3.5			3.1			3.3			3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	44	44	44	40	32	36	51	56	54	48	52	50	37	38	37
10 to 20 Feet	31	33	32	40	40	40	25	30	27	23	25	24	35	37	36
20 to 30 Feet	14	15	15	17	23	20	11	7	9	13	12	12	17	17	17
30 to 40 Feet	5	4	4	3	4	3	5	2	3	6	5	6	6	6	6
40 to 50 Feet	1	1	1	0	0	0	1	1	1	2	2	2	1	1	1
50 to 60 Feet	1	0	1	0	0	0	1	0	1	1	0	1	1	0	1
60 to 70 Feet	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
above 100 Feet	3	1	2	0	0	0	3	2	3	5	1	3	2	1	1
Mean height Feet	17	14	16	13	15	14	18	13	15	21	14	18	17	15	16

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			2			0			1			4			1
AVG station N			311			311			295			323			313
AVG station -N/Kft			10			11			5.5			14			11
AVG sfc wind Kts	19	18	18	23	23	23	16	15	15	15	15	15	20	19	20

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 58 06 N 68 25 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72906 58 06 N 68 25 W
Radiosonde station height: 102 Feet
Surface obs source: MS186 55 00 N 55 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	1	2	0	0	0	4	2	3	5	2	4	2	1	1
3 GHz	4	2	3	1	0	0	5	2	4	6	3	5	3	1	2
6 GHz	5	2	4	1	0	1	7	4	5	9	4	7	4	1	3
10 GHz	12	7	10	5	4	4	13	7	10	18	11	14	11	8	9
20 GHz	26	23	24	21	27	24	24	14	19	30	23	27	29	25	27

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	0	1	1	1	1	1	3	2	0	0	0
AVG thickness Kft			.16			.16			.22			.12			.13
AVG trap freq GHz			3.5			4.7			2.4			2.5			4.5
AVG lyr grd -N/Kft			128			139			107			83			181

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	4	4	2	1	2	5	3	4	8	8	8	2	3	3
AVG top ht Kft			5.0			4.2			5.7			6.1			4.3
AVG thickness Kft			.17			.13			.16			.24			.17
AVG trap freq GHz			2.7			4.1			3.8			1.1			2.8
AVG lyr grd -N/Kft			57			58			55			59			55
AVG lyr base Kft			4.9			4.1			5.5			5.9			4.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	44	44	44	40	32	36	51	56	54	48	52	50	37	38	37
10 to 20 Feet	31	33	32	40	40	40	25	30	27	23	25	24	35	37	36
20 to 30 Feet	14	15	15	17	23	20	11	7	9	13	12	12	17	17	17
30 to 40 Feet	5	4	4	3	4	3	5	2	3	6	5	6	6	6	6
40 to 50 Feet	1	1	1	0	0	0	1	1	1	2	2	2	1	1	1
50 to 60 Feet	1	0	1	0	0	0	1	0	1	1	0	1	1	0	1
60 to 70 Feet	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
above 100 Feet	3	1	2	0	0	0	3	2	3	5	1	3	2	1	1
Mean height Feet	17	14	16	13	15	14	18	13	15	21	14	16	17	15	16

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			315			318			312			318			312
AVG station -N/Kft			12			13			12			12			12
AVG sfc wind Kts	19	18	18	23	23	23	16	15	15	15	15	15	20	19	20

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 50 13 N 66 16 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72811 30 13 N 66 16 W
Radiosonde station height: 180 Feet
Surface obs source: MS151 45 00 N 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
1 GHz	7	5	6	2	1	2	8	5	7	13	9	11	4	2	3
3 GHz	9	7	8	2	2	2	10	8	9	16	13	15	6	4	5
6 GHz	18	16	17	8	7	7	17	15	16	28	25	26	19	16	17
10 GHz	36	34	35	24	23	23	28	27	27	43	43	43	47	42	44
20 GHz	49	49	49	41	41	41	38	37	37	53	55	54	65	62	64

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	3	3	1	0	1	1	5	3	4	7	6	1	1	1
AVG thickness Kft			.22			.17			.23			.28			.23
AVG trap freq GHz			2.0			3.3			2.0			1.0			1.7
AVG lyr grd -N/Kft			110			162			92			86			100

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	6	6	2	2	2	5	6	6	9	11	10	4	5	5
AVG top ht Kft			6.0			4.8			6.3			7.6			5.2
AVG thickness Kft			.21			.16			.18			.32			.20
AVG trap freq GHz			1.9			3.1			2.1			.57			1.6
AVG lyr grd -N/Kft			56			55			54			60			54
AVG lyr base Kft			5.8			4.7			6.2			7.4			5.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	34	34	34	31	31	31	48	48	48	38	36	37	19	21	20
10 to 20 Feet	17	19	18	27	27	27	16	18	17	11	12	11	15	17	16
20 to 30 Feet	14	15	15	17	18	18	10	10	10	10	12	11	19	20	19
30 to 40 Feet	11	11	11	11	11	11	7	8	7	8	11	9	17	16	16
40 to 50 Feet	7	7	7	6	5	5	4	5	4	7	8	8	12	10	11
50 to 60 Feet	5	5	5	3	3	3	3	3	3	6	6	6	7	7	7
60 to 70 Feet	3	3	3	1	1	1	2	2	2	4	4	4	4	4	4
70 to 80 Feet	2	1	2	1	0	1	1	1	1	2	2	2	2	2	2
80 to 90 Feet	1	1	1	0	0	0	1	1	1	2	1	1	1	1	1
90 to 100 Feet	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1
above 100 Feet	6	3	5	2	1	2	8	4	6	11	6	9	4	2	3
Mean height Feet	31	27	29	23	21	22	28	22	25	39	32	36	34	31	33

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			317			311			314			329			312
AVG station -N/Kft			12			11			12			14			12
AVG sfc wind Kts	16	16	16	20	19	20	14	14	14	12	12	12	18	17	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 58 27 N 78 07 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72907 58 27 N 78 07 W
Radiosonde station height: 16 Feet
Surface obs source: MS186 55 00 N 55 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	2	2	1	0	0	4	2	3	7	3	5	2	1	1
3 GHz	4	2	3	1	0	1	5	3	4	8	4	6	3	1	2
6 GHz	6	3	4	2	0	1	7	4	5	11	6	9	4	2	3
10 GHz	12	8	10	5	4	4	13	7	10	20	12	16	11	8	10
20 GHz	27	23	25	21	27	24	24	14	19	32	24	28	29	26	27

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	1	0	1	1	1	1	4	4	4	0	1	1
AVG thickness Kft			.23			.29			.20			.22			.20
AVG trap freq GHz			1.7			2.1			1.9			1.1			1.5
AVG lyr grd -N/Kft			120			140			102			86			153

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	7	7	2	1	2	9	6	8	16	15	16	5	5	5
AVG top ht Kft			3.1			2.6			2.8			4.2			2.9
AVG thickness Kft			.21			.15			.19			.28			.19
AVG trap freq GHz			1.6			2.0			1.2			.73			2.5
AVG lyr grd -N/Kft			58			68			54			57			54
AVG lyr base Kft			3.0			2.5			2.7			4.0			2.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	44	44	44	40	32	36	51	56	54	48	52	50	37	38	37
10 to 20 Feet	31	33	32	40	40	40	25	30	27	23	25	24	35	37	36
20 to 30 Feet	14	15	15	17	23	20	11	7	9	13	12	12	17	17	17
30 to 40 Feet	5	4	4	3	4	3	5	2	3	6	5	6	6	6	6
40 to 50 Feet	1	1	1	0	0	0	1	1	1	2	2	2	1	1	1
50 to 60 Feet	1	0	1	0	0	0	1	0	1	1	0	1	1	0	1
60 to 70 Feet	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
above 100 Feet	3	1	2	0	0	0	3	2	3	5	1	3	2	1	1
Mean height Feet	17	14	16	13	15	14	18	13	15	21	14	18	17	15	16

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			0			0			1			1			0
AVG station N			317			321			314			320			313
AVG station -N/Kft			13			14			12			13			12
AVG sfc wind Kt.	19	18	18	23	23	23	16	15	15	15	15	15	20	19	20

IREPS PEV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 51 16 N 80 39 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72836 51 16 N 80 39 W
Radiosonde station height: 30 Feet
Surface obs source: MS151 45 00 N 65 90 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
1 GHz	7	5	6	3	2	2	10	5	7	13	10	12	4	2	3
3 GHz	9	7	8	4	2	3	12	7	10	16	14	15	5	4	4
6 GHz	19	16	17	10	7	9	19	14	17	28	26	27	18	16	17
10 GHz	36	34	35	26	23	25	29	27	28	43	43	43	46	42	44
20 GHz	50	49	49	43	42	42	39	37	38	53	55	54	65	62	63

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	4	3	4	1	3	4	4	4	4	8	6	0	1	1
AVG thickness Kft			.27			.18			.26			.32			.33
AVG trap freq GHz			1.9			2.2			1.5			.89			2.9
AVG lyr grd -N/Kft			117			124			180			88			74

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	6	7	1	1	1	7	4	6	18	14	16	3	5	4
AVG top ht Kft			4.9			4.9			4.6			4.8			5.2
AVG thickness Kft			.22			.14			.27			.28			.17
AVG trap freq GHz			2.0			3.9			1.0			.87			2.2
AVG lyr grd -N/Kft			54			48			57			57			55
AVG lyr base Kft			4.7			4.7			4.4			4.5			5.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	34	34	34	31	31	31	48	48	48	38	36	37	19	21	20
10 to 20 Feet	17	19	18	27	27	27	16	18	17	11	12	11	15	17	16
20 to 30 Feet	14	15	15	17	18	18	10	10	10	10	12	11	19	20	19
30 to 40 Feet	11	11	11	11	11	11	7	8	7	8	11	9	17	16	16
40 to 50 Feet	7	7	7	6	5	5	4	5	4	7	8	8	12	10	11
50 to 60 Feet	5	5	5	3	3	3	3	3	3	6	6	6	7	7	7
60 to 70 Feet	3	3	3	1	1	1	2	2	2	4	4	4	4	4	4
70 to 80 Feet	2	1	2	1	0	1	1	1	1	2	2	2	2	2	2
80 to 90 Feet	1	1	1	0	0	0	1	1	1	2	1	1	1	1	1
90 to 100 Feet	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1
above 100 Feet	6	3	5	2	1	2	8	4	6	11	6	9	4	2	3
Mean height Feet	31	27	29	23	21	22	28	22	25	39	32	36	34	31	33

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			319			316			316			329			315
AVG station -N/Kft			13			12			12			14			12
AVG sfc wind Kts	16	16	16	20	19	20	14	14	14	12	12	12	18	17	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 58 45 N 94 04 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72913 58 45 N 94 04 W
Radiosonde station height: 98 Feet
Surface obs source: MS193 55 00 N 125 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
1 GHz	11	6	9	7	3	5	16	10	13	18	10	14	4	3	4
3 GHz	14	8	11	9	3	6	18	12	15	22	13	17	5	3	4
6 GHz	19	12	15	12	6	9	25	17	21	28	18	23	11	7	9
10 GHz	36	26	31	28	20	24	42	30	36	40	29	35	33	27	30
20 GHz	55	48	52	49	43	46	61	55	58	54	47	50	57	48	52

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	1	3	2	0	1	3	2	3	10	3	7	0	0	0
AVG thickness Kft			.22			.19			.24			.22			.24
AVG trap freq GHz			1.3			1.4			1.6			1.5			.77
AVG lyr grd -N/Kft			132			200			104			154			72

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	4	5	2	1	2	8	5	7	11	8	10	3	3	3
AVG top ht Kft			2.8			2.6			1.7			4.9			1.9
AVG thickness Kft			.21			.17			.22			.28			.17
AVG trap freq GHz			2.0			2.2			2.1			1.0			2.8
AVG lyr grd -N/Kft			58			66			53			57			55
AVG lyr base Kft			2.6			2.5			1.5			4.7			1.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	25	26	25	24	23	23	20	19	20	36	33	34	22	27	25
10 to 20 Feet	21	27	24	28	33	31	20	27	23	15	22	18	21	25	23
20 to 30 Feet	20	22	21	22	23	23	20	26	23	14	18	16	24	21	23
30 to 40 Feet	12	10	11	12	10	11	12	9	11	8	8	8	15	15	15
40 to 50 Feet	5	4	5	4	4	4	5	4	5	5	4	4	7	5	6
50 to 60 Feet	3	2	2	2	1	2	3	1	2	2	2	2	3	2	3
60 to 70 Feet	1	1	1	1	1	1	2	1	1	1	2	2	1	1	1
70 to 80 Feet	1	1	1	0	1	1	1	2	2	2	1	2	1	1	1
80 to 90 Feet	1	1	1	1	0	1	1	1	1	1	2	1	1	0	0
90 to 100 Feet	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0
above 100 Feet	10	6	8	6	3	4	15	9	12	15	9	12	4	3	4
Mean height Feet	36	29	32	29	24	27	45	35	40	41	32	36	29	24	26

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			318			323			314			320			315
AVG station -N/Kft			13			14			13			13			12
AVG sfc wind Kts	15	13	14	17	15	16	14	11	13	11	10	11	18	16	17

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 50 40 N 127 22 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 74109 50 40 N 127 22 W
Radiosonde station height: 75 Feet
Surface obs source: MS193 55 00 N 125 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
1 GHz	12	7	9	7	3	5	17	10	13	17	10	13	5	3	4
3 GHz	14	8	11	9	4	6	20	12	16	19	13	16	6	4	5
6 GHz	19	12	16	13	7	10	26	17	21	25	17	21	12	8	10
10 GHz	36	27	31	28	21	24	43	30	37	38	29	33	34	27	30
20 GHz	55	48	52	49	44	47	62	55	59	52	47	49	58	48	53

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	2	3	3	1	2	5	2	4	5	2	4	2	1	2
AVG thickness Kft			.26			.26			.31			.29			.20
AVG trap freq GHz			1.3			1.3			1.0			.91			1.8
AVG lyr grd -N/Kft			86			89			89			95			71

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	13	10	3	5	4	5	11	8	13	27	20	5	8	7
AVG top ht Kft			4.8			3.7			4.9			4.4			6.0
AVG thickness Kft			.27			.23			.26			.31			.27
AVG trap freq GHz			.87			1.0			.91			.63			1.0
AVG lyr grd -N/Kft			59			59			57			56			64
AVG lyr base Kft			4.6			3.6			4.7			4.2			5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	25	26	25	24	23	23	20	19	20	36	33	34	22	27	25
10 to 20 Feet	21	27	24	28	33	31	20	27	23	15	22	18	21	25	23
20 to 30 Feet	20	22	21	22	23	23	20	26	23	14	18	16	24	21	23
30 to 40 Feet	12	10	11	12	10	11	12	9	11	8	8	8	15	15	15
40 to 50 Feet	5	4	5	4	4	4	5	4	5	5	4	4	7	5	6
50 to 60 Feet	3	2	2	2	1	2	3	1	2	2	2	2	3	2	3
60 to 70 Feet	1	1	1	1	1	1	2	1	1	1	2	2	1	1	1
70 to 80 Feet	1	1	1	0	1	1	1	2	2	2	1	2	1	1	1
80 to 90 Feet	1	1	1	1	0	1	1	1	1	1	2	1	1	0	0
90 to 100 Feet	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0
above 100 Feet	10	6	8	6	3	4	15	9	12	15	9	12	4	3	4
Mean height Feet	36	29	32	29	24	27	45	35	40	41	32	36	29	24	26

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			1			0			0			3			0
AVG station N			324			317			323			334			322
AVG station -N/Kft			13			12			13			14			12
AVG sfc wind Kts	15	13	14	17	15	16	14	11	13	11	10	11	18	16	17

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 55 01 N 131 34 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 70398 55 01 N 131 34 W
Radiosonde station height: 121 Feet
Surface obs source: MS194 55 00 N 135 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0
1 GHz	8	3	5	3	1	2	12	3	7	14	6	10	3	2	2
3 GHz	9	4	7	3	2	2	14	4	9	17	8	12	3	3	3
6 GHz	15	7	11	5	3	4	20	7	13	24	12	18	9	6	8
10 GHz	34	25	29	22	17	19	36	21	28	41	31	36	36	32	34
20 GHz	54	50	52	46	42	44	54	44	49	57	54	56	60	60	60

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	3	4	1	2	2	7	3	5	8	5	7	1	3	2
AVG thickness Kft			.21			.21			.20			.29			.16
AVG trap freq GHz			2.0			1.8			1.7			1.3			3.4
AVG lyr grd -N/Kft			140			135			105			100			222

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	8	6	3	4	4	3	6	5	10	17	14	4	4	4
AVG top ht Kft			5.4			4.6			5.3			6.2			5.3
AVG thickness Kft			.22			.21			.22			.27			.17
AVG trap freq GHz			1.2			1.2			1.1			.83			1.6
AVG lyr grd -N/Kft			59			53			60			57			65
AVG lyr base Kft			5.2			4.4			5.1			6.0			5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	26	24	25	27	26	27	28	25	27	28	25	26	20	19	19
10 to 20 Feet	22	28	25	27	32	30	22	31	27	19	24	21	19	22	21
20 to 30 Feet	21	25	23	24	26	25	18	24	21	17	24	20	24	28	26
30 to 40 Feet	14	14	14	13	11	12	12	11	12	11	15	13	19	19	19
40 to 50 Feet	6	4	5	4	2	3	5	2	4	6	5	6	9	7	8
50 to 60 Feet	3	2	2	1	1	1	2	2	2	3	2	3	4	2	3
60 to 70 Feet	1	1	1	1	0	0	1	1	1	2	1	1	1	1	1
70 to 80 Feet	1	0	1	1	0	0	1	0	1	1	1	1	0	0	0
80 to 90 Feet	1	0	0	0	0	0	1	0	0	1	1	1	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0
above 100 Feet	6	2	4	2	1	1	9	2	6	11	4	7	2	1	2
Mean height Feet	30	23	27	22	19	21	34	22	28	37	26	32	28	24	26

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			319			312			318			329			315
AVG station -N/Kft			12			11			12			13			12
AVG sfc wind Kts	18	17	17	20	19	20	16	15	15	14	14	14	21	20	20

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 59 31 N 139 40 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 70361 59 31 N 139 40 W
Radiosonde station height: 39 Feet
Surface obs source: MS194 55 00 N 135 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	0	1	1	0	1	0	0	1	1	0	1	1
1 GHz	7	5	6	4	4	4	10	4	7	12	6	9	4	4	4
3 GHz	9	6	8	5	5	5	12	5	8	14	8	11	5	6	6
6 GHz	14	9	12	7	7	7	17	8	12	21	13	17	11	10	10
10 GHz	33	27	30	24	21	22	33	22	28	39	31	35	38	35	36
20 GHz	54	51	53	48	45	46	51	45	48	55	54	55	61	62	62

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	7	5	4	8	6	2	5	4	3	6	5	4	7	6
AVG thickness Kft			.23			.19			.24			.27			.21
AVG trap freq GHz			1.5			1.8			1.5			1.3			1.4
AVG lyr grd -N/kft			108			113			88			91			106

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	6	5	3	3	3	4	8	6	7	11	9	2	2	2
AVG top ht Kft			2.9			2.6			2.4			4.8			2.5
AVG thickness Kft			.27			.21			.30			.33			.25
AVG trap freq GHz			1.2			2.0			1.0			.69			1.2
AVG lyr grd -N/Kft			58			61			56			55			58
AVG lyr base Kft			2.7			2.4			2.2			3.8			2.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCUPRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	26	24	25	27	26	27	28	25	27	28	25	26	20	19	19
10 to 20 Feet	22	28	25	27	32	30	22	31	27	19	24	21	19	22	21
20 to 30 Feet	21	25	23	24	26	25	18	24	21	17	24	20	24	28	26
30 to 40 Feet	14	14	14	13	11	12	12	11	12	11	15	13	13	19	19
40 to 50 Feet	6	4	5	4	2	3	5	2	4	6	5	6	9	7	8
50 to 60 Feet	3	2	2	1	1	1	2	2	2	3	2	3	4	2	3
60 to 70 Feet	1	1	1	1	0	0	1	1	1	2	1	1	1	1	1
70 to 80 Feet	1	0	1	1	0	0	1	0	1	1	1	1	0	0	0
80 to 90 Feet	1	0	0	0	0	0	1	0	0	1	1	1	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0
above 100 Feet	6	2	4	2	1	1	9	2	6	11	4	7	2	1	2
Mean height Feet	30	23	27	22	19	21	34	22	28	37	26	32	28	24	26

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			318			311			319			330			313
AVG station -N/Kft			12			11			12			13			12
AVG sfc wind Kts	18	17	17	20	19	20	16	15	15	14	14	14	21	20	20

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 50 00 N 145 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YP 50 00 N 145 00 W
Radiosonde station height: 39 Feet
Surface obs source: MS159 45 00 N 145 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	6	3	4	2	1	2	9	3	6	11	4	7	4	2	3
3 GHz	8	3	5	3	2	2	11	3	7	12	6	9	5	2	3
6 GHz	15	8	11	7	4	6	16	6	11	21	12	17	14	9	12
10 GHz	36	31	34	29	24	27	34	25	30	40	35	37	43	40	41
20 GHz	54	53	54	49	49	49	50	47	48	54	54	54	63	61	62

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	2	3	3	4	1	3	1	2	2	1	2	2
AVG thickness Kft			.21			.16			.13			.39			.14
AVG trap freq GHz			2.4			3.6			3.0			.66			2.4
AVG lyr grd -N/Kft			157			145			162			93			227

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	10	10	10	10	10	5	7	6	13	16	15	8	8	8
AVG top ht Kft			4.0			3.4			4.5			*			4.1
AVG thickness Kft			.38			.27			.26			.36			.29
AVG trap freq GHz			.84			.80			1.2			.51			.81
AVG lyr grd -N/Kft			63			63			63			*			62
AVG lyr base Kft			3.9			3.2			4.3			4.1			3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	29	26	27	29	27	28	33	29	31	31	27	29	22	22	22
10 to 20 Feet	18	21	19	22	25	23	19	25	22	15	18	17	15	17	16
20 to 30 Feet	18	22	20	20	25	22	16	22	19	15	20	17	20	22	21
30 to 40 Feet	15	17	16	16	16	16	13	15	14	12	15	13	19	20	19
40 to 50 Feet	7	7	7	6	5	5	5	4	5	8	8	8	10	10	10
50 to 60 Feet	4	3	4	2	1	2	3	2	2	5	4	4	6	5	5
60 to 70 Feet	2	1	1	1	0	1	1	1	1	2	2	2	3	2	2
70 to 80 Feet	1	1	1	1	0	0	1	1	1	2	1	1	1	1	1
80 to 90 Feet	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0
90 to 100 Feet	1	0	0	0	0	0	1	0	0	1	1	1	0	0	0
above 100 Feet	6	2	4	2	1	1	8	2	5	10	3	7	3	1	2
Mean height Feet	31	25	28	24	21	22	32	23	27	37	28	33	31	27	29

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			1			0			0			2			0
AVG station N			323			315			323			334			318
AVG station -N/Kft			13			12			13			15			13
AVG sfc wind Kts	16	18	16	21	21	21	17	16	16	14	14	14	21	20	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 58 40 N 156 39 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 70326 58 40 N 156 39 W
Radiosonde station height: 49 Feet
Surface obs source: MS196 55 00 N 155 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	4	2	3	1	1	1	6	1	4	6	3	4	3	1	2
3 GHz	5	2	4	1	1	1	8	2	5	8	3	6	3	2	3
6 GHz	8	3	6	3	1	2	11	3	7	12	6	9	6	4	5
10 GHz	20	14	17	12	8	10	20	9	14	23	18	20	27	22	25
20 GHz	39	34	36	31	27	29	33	23	28	37	35	36	53	51	52

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	1	0	1	3	1	2	2	3	3	1	2	2
AVG thickness Kft			.19			.22			.13			.23			.19
AVG trap freq GHz			2.2			1.5			2.9			2.0			2.6
AVG lyr grd -M/Kft			95			124			77			101			79

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	6	5	2	1	2	5	7	6	8	11	10	4	3	4
AVG top ht Kft			4.3			4.9			4.3			4.1			3.8
AVG thickness Kft			.23			.15			.26			.29			.22
AVG trap freq GHz			1.3			2.0			.89			.76			1.7
AVG lyr grd -M/Kft			61			56			64			62			60
AVG lyr base Kft			4.1			4.7			4.1			3.9			3.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	35	33	34	34	33	34	41	39	40	42	37	40	21	21	21
10 to 20 Feet	27	34	30	35	39	37	26	37	32	22	29	26	26	29	27
20 to 30 Feet	18	20	19	19	19	19	14	15	14	14	17	16	26	29	28
30 to 40 Feet	9	8	9	7	5	6	6	4	5	8	9	9	16	15	15
40 to 50 Feet	3	2	3	2	1	1	2	1	2	3	3	3	6	4	5
50 to 60 Feet	2	1	1	1	0	0	1	1	1	2	1	1	2	1	2
60 to 70 Feet	1	0	0	1	0	0	1	0	1	1	0	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
above 100 Feet	3	1	2	1	1	1	5	1	3	5	2	4	2	1	2
Mean height Feet	22	18	20	17	16	17	23	16	19	24	18	21	25	21	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			312			310			310			319			310
AVG station -N/Kft			11			12			10			12			12
AVG sfc wind Kts	18	18	18	20	20	20	16	17	17	15	15	15	22	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 57 45 N 152 31 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 70350 57 45 N 152 31 W
Radiosonde station height: 13 Feet
Surface obs source: MS196 55 00 N 155 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	4	1	3	1	1	1	6	2	4	6	2	4	3	1	2
3 GHz	5	2	3	1	1	1	8	2	5	8	2	5	4	1	2
6 GHz	8	3	6	2	2	2	11	4	8	12	4	8	7	3	5
10 GHz	20	14	17	11	8	10	20	9	15	23	16	20	28	21	24
20 GHz	39	34	36	30	27	29	33	24	29	37	34	35	54	50	52

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	2	1	2	0	1	1	3	2	3	2	1	2	2	1	2
AVG thickness Kft			.13			.09			.15			.14			.12
AVG trap freq GHz			3.2			3.7			2.0			3.3			4.0
AVG lyr grd -N/Kft			139			175			95			124			162

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	7	8	7	3	7	5	7	8	8	11	14	13	5	4	5
AVG top ht Kft			4.9			4.3			4.9			5.7			4.8
AVG thickness Kft			.25			.25			.21			.28			.24
AVG trap freq GHz			.93			1.3			1.0			.77			.66
AVG lyr grd -N/Kft			62			65			60			57			55
AVG lyr base Kft			4.8			4.2			4.7			5.5			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
0 to 10 Feet	35	33	34	34	33	34	41	39	40	42	37	40	21	21	21
10 to 20 Feet	27	34	30	35	39	37	26	37	32	22	29	26	26	29	27
20 to 30 Feet	18	20	19	19	19	19	14	15	14	14	17	16	26	29	28
30 to 40 Feet	9	8	9	7	5	6	6	4	5	8	9	9	16	15	15
40 to 50 Feet	3	2	3	2	1	1	2	1	2	3	3	3	6	4	5
50 to 60 Feet	2	1	1	1	0	0	1	1	1	2	1	1	2	1	2
60 to 70 Feet	1	0	0	1	0	0	1	0	1	1	0	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
above 100 Feet	3	1	2	1	1	1	5	1	3	5	2	4	2	1	2
Mean height Feet	22	18	20	17	16	17	23	16	19	24	18	21	25	21	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			2			0
AVG station N			313			306			316			325			305
AVG station -N/Kft			11			10			11			12			10
AVG sfc wind Kts	18	18	18	20	20	20	16	17	17	15	15	15	22	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 55 12 N 162 43 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 70316 55 12 N 162 43 W
Radiosonde station height: 98 Feet
Surface obs source: MS197 55 00 N 165 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	1	2	3	1	2	5	2	3	4	2	3	3	1	2
3 GHz	5	2	3	4	1	2	6	2	4	5	3	4	4	1	3
6 GHz	7	3	5	6	1	4	8	3	6	8	4	6	6	2	4
10 GHz	17	11	14	12	6	9	14	7	11	17	12	14	24	17	20
20 GHz	33	28	31	28	22	25	26	17	22	29	28	28	50	46	48

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	2	3	4	1	3	5	2	4	3	3	3	4	2	3
AVG thickness Kft			.17			.14			.16			.16			.20
AVG trap freq GHz			2.4			2.4			2.5			2.1			2.5
AVG lyr grd -N/Kft			109			106			88			118			121

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	12	10	5	7	6	4	10	7	11	22	17	8	10	9
AVG top ht Kft			3.7			2.9			3.6			4.4			3.9
AVG thickness Kft			.25			.25			.20			.32			.22
AVG trap freq GHz			1.2			1.1			1.8			.64			1.3
AVG lyr grd -N/Kft			58			58			54			60			60
AVG lyr base Kft			3.5			2.7			3.4			4.1			3.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	36	36	36	33	32	32	44	46	45	48	45	46	22	19	20
10 to 20 Feet	32	37	34	42	46	44	31	37	34	24	29	27	30	35	32
20 to 30 Feet	17	18	17	16	16	16	12	10	11	12	16	14	27	30	28
30 to 40 Feet	8	7	7	5	4	5	5	3	4	7	6	6	14	13	13
40 to 50 Feet	2	1	2	1	1	1	1	1	1	2	2	2	4	2	3
50 to 60 Feet	1	0	1	1	0	1	1	0	1	1	0	1	1	1	1
60 to 70 Feet	1	0	0	0	0	0	1	0	0	1	0	1	1	0	0
70 to 80 Feet	1	0	0	0	0	0	1	0	0	:	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
above 100 Feet	2	1	1	1	0	1	3	1	2	3	1	2	1	0	1
Mean height Feet	19	16	18	17	15	16	18	14	16	18	15	17	22	20	21

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			2			0
AVG station N			316			311			316			325			311
AVG station -N/Kft			12			12			12			13			12
AVG sfc wind Kts	18	18	18	20	20	20	16	16	16	15	15	15	21	20	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 51 52 N 176 39 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 70454 51 52 N 176 39 W
Radiosonde station height: 13 Feet
Surface obs source: MS198 55 00 N 175 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	2	1	2	2	1	1	3	2	3	3	1	2	2	1	1
3 GHz	3	2	2	2	1	2	4	2	3	4	2	3	2	1	2
6 GHz	5	3	4	4	2	3	6	4	5	7	3	5	4	2	3
10 GHz	16	11	14	13	8	11	14	8	11	14	8	11	23	19	21
20 GHz	34	29	32	33	28	30	26	20	23	25	21	23	51	49	50

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	1	1	0	0	0	1	0	1	1	1	1
AVG thickness Kft			.17			.13			.12			.22			.20
AVG trap freq GHz			2.4			2.5			4.4			1.5			1.3
AVG lyr grd -M/Kft			198			190			189			207			205

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	13	15	14	10	8	9	9	12	11	17	27	22	14	11	13
AVG top ht Kft			4.6			4.1			4.2			5.1			4.8
AVG thickness Kft			.26			.27			.25			.31			.24
AVG trap freq GHz			.86			.77			1.2			.55			.89
AVG lyr grd -M/Kft			60			64			58			61			59
AVG lyr base Kft			4.4			4.0			4.0			4.9			4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	35	34	35	29	29	29	41	42	41	49	47	48	21	19	20
10 to 20 Feet	32	36	34	38	43	41	33	38	35	27	31	29	28	33	31
20 to 30 Feet	18	18	18	20	20	20	13	12	12	11	13	12	28	29	28
30 to 40 Feet	8	7	8	7	5	6	6	4	5	5	4	5	16	15	15
40 to 50 Feet	2	2	2	2	1	1	2	1	1	2	1	2	4	3	3
50 to 60 Feet	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
60 to 70 Feet	1	0	0	0	0	0	1	0	0	1	0	1	1	0	0
70 to 80 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
above 100 Feet	2	1	2	1	1	1	3	2	3	3	1	2	1	1	1
Mean height Feet	19	17	18	19	16	18	19	16	17	17	15	16	22	21	21

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			1			0			0			2			1
AVG station N			313			307			314			323			309
AVG station -M/Kft			11			10			11			12			11
AVG sfc wind Kts	19	18	19	21	21	21	17	16	16	15	15	15	22	22	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 57 09 N 170 13 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 70308 57 09 N 170 13 W
Radiosonde station height: 33 Feet
Surface obs source: MS198 55 00 N 175 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	2	2	2	1	1	5	2	4	4	2	3	2	1	1
3 GHz	4	2	3	3	1	2	7	3	5	5	3	4	3	1	2
6 GHz	7	3	5	5	2	3	9	4	7	8	5	6	5	2	3
10 GHz	17	12	14	14	8	11	17	9	13	15	10	12	24	19	22
20 GHz	35	30	32	33	28	30	29	21	25	26	23	24	51	48	50

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	1	2	2	1	2	5	1	3	3	2	3	2	1	2
AVG thickness Kft			.18			.14			.17			.26			.14
AVG trap freq GHz			2.8			3.8			2.7			1.8			3.1
AVG lyr grd -N/Kft			137			181			95			146			124

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	13	16	15	9	7	8	12	17	15	20	27	24	11	13	12
AVG top ht Kft			3.5			3.3			3.8			4.2			3.4
AVG thickness Kft			.27			.20			.27			.32			.29
AVG trap freq GHz			.81			1.4			.76			.53			.53
AVG lyr grd -N/Kft			60			54			57			60			69
AVG lyr base Kft			3.3			3.1			2.7			3.9			3.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	35	34	35	29	29	29	41	42	41	49	47	48	21	19	20
10 to 20 Feet	32	36	34	38	43	41	33	38	35	27	31	29	28	33	31
20 to 30 Feet	18	18	18	20	20	20	13	12	12	11	13	12	28	29	28
30 to 40 Feet	8	7	8	7	5	6	6	4	5	5	4	5	16	15	15
40 to 50 Feet	2	2	2	2	1	1	2	1	1	2	1	2	4	3	3
50 to 60 Feet	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
60 to 70 Feet	1	0	0	0	0	0	1	0	0	1	0	1	1	0	0
70 to 80 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
above 100 Feet	2	1	2	1	1	1	3	2	3	3	1	2	1	1	1
Mean height Feet	19	17	18	19	16	18	19	16	17	17	15	16	22	21	21

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			1			1			0
% occur 2+ EL dcts			1			0			1			2			0
AVG station N			316			311			316			325			311
AVG station -N/Kft			12			12			12			13			11
AVG sfc wind Kts	19	18	19	21	21	21	17	16	16	15	15	15	22	22	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 52 43 N 174 06 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 70414 52 43 N 174 06 E
Radiosonde station height: 95 Feet
Surface obs source: MS199 55 00 N 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	0	0	0	1	0	0	1	0	1	0	0	0
1 GHz	5	2	3	4	1	2	6	3	4	7	3	5	3	2	3
3 GHz	7	3	5	5	2	4	8	4	6	9	4	6	5	2	4
6 GHz	9	4	7	7	3	5	11	5	8	12	6	9	7	3	5
10 GHz	19	13	16	16	10	13	18	11	15	18	11	14	26	19	23
20 GHz	37	32	35	38	30	34	31	26	28	28	24	26	52	50	51

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	3	4	5	3	4	5	3	4	9	3	6	4	3	4
AVG thickness Kft			.16			.12			.17			.24			.12
AVG trap freq GHz			1.9			2.8			1.4			1.5			2.0
AVG lyr grd -M/Kft			110			73			105			146			116

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	10	14	12	6	7	7	9	14	12	16	23	20	7	10	9
AVG top ht Kft			3.9			4.2			3.5			4.3			3.5
AVG thickness Kft			.25			.18			.24			.31			.26
AVG trap freq GHz			1.0			1.6			1.0			.61			.77
AVG lyr grd -M/Kft			58			54			58			56			65
AVG lyr base Kft			3.7			4.1			3.3			4.0			3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	35	33	34	27	28	28	40	36	38	53	49	51	19	18	19
10 to 20 Feet	31	37	34	37	44	40	33	41	37	25	29	27	30	33	32
20 to 30 Feet	18	20	19	23	20	21	13	15	14	18	14	12	27	31	29
30 to 40 Feet	8	7	8	8	6	7	5	5	5	4	4	4	15	14	14
40 to 50 Feet	2	1	2	1	1	1	2	1	1	2	1	1	5	3	4
50 to 60 Feet	1	0	1	1	0	0	1	0	1	1	1	1	1	0	1
60 to 70 Feet	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0
70 to 80 Feet	1	0	0	0	0	0	1	0	1	1	0	1	0	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
above 100 Feet	3	1	2	2	0	1	4	1	3	3	2	2	2	1	1
Mean height Feet	20	17	18	20	16	18	20	16	18	16	14	15	24	21	22

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			1			0			0			3			1
AVG station N			315			308			316			326			311
AVG station -N/Kft			12			11			12			14			12
AVG sfc wind Kts	19	19	19	22	22	22	17	17	17	15	16	15	24	23	24

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 55 12 N 165 58 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 32618 55 12 N 165 58 E
Radiosonde station height: 62 Feet
Surface obs source: MS200 55 00 N 165 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0	0	0	0	0	0	*	*	*
1 GHz	5	3	4	*	*	*	4	2	3	7	4	6	*	*	*
3 GHz	6	4	5	*	*	*	4	2	3	8	5	7	*	*	*
6 GHz	9	6	7	*	*	*	7	4	5	12	7	9	*	*	*
10 GHz	16	11	13	*	*	*	12	8	10	20	14	17	*	*	*
20 GHz	29	24	26	*	*	*	25	19	22	33	28	31	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	1	1	0	0	0	0	1	1	1	2	2	0	0	0
AVG thickness Kft			.21			*			.31			.11			*
AVG trap freq GHz			.70			*			.46			.94			*
AVG lyr grd -N/Kft			356			*			237			475			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	0	1	2	2	2	2	2	2	0	0	0
AVG top ht Kft			3.9			3.7			3.9			6.0			1.9
AVG thickness Kft			.32			.24			.41			.38			.24
AVG trap freq GHz			.88			.56			.25			.49			2.2
AVG lyr grd -N/Kft			80			97			103			61			59
AVG lyr base Kft			3.7			3.6			3.7			5.7			1.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	33	33	33	27	27	27	42	42	42	46	45	45	19	17	18
10 to 20 Feet	32	37	34	42	46	44	33	40	36	23	27	25	31	33	32
20 to 30 Feet	18	19	18	19	19	19	12	11	12	13	15	14	28	29	29
30 to 40 Feet	8	7	7	6	5	6	5	3	4	7	5	6	14	14	14
40 to 50 Feet	2	2	2	2	1	1	1	1	1	2	2	2	3	4	4
50 to 60 Feet	1	1	1	0	1	1	1	1	1	2	1	1	2	1	1
60 to 70 Feet	1	1	1	0	0	0	1	0	1	1	1	1	0	1	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
above 100 Feet	4	2	3	2	1	1	4	1	2	7	3	5	2	1	2
Mean height Feet	22	18	20	19	18	18	19	15	17	24	19	22	24	22	23

GENERAL METEOPOLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			316			309			316			328			311
AVG station -N/Kft			12			11			12			13			11
AVG sfc wind Kts	19	19	19	22	21	21	16	16	16	15	15	15	22	22	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 50 00 N 155 22 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 32217 50 00 N 155 22 E
Radiosonde station height: 36 Feet
Surface obs source: MS201 55 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	*	*	*	0	0	0	1	1	1	0	0	0
1 GHz	8	5	7	*	*	*	7	3	5	11	8	9	8	4	6
3 GHz	11	6	8	*	*	*	9	5	7	13	9	11	10	4	7
6 GHz	14	8	11	*	*	*	14	8	11	17	12	14	13	5	9
10 GHz	22	13	18	*	*	*	19	11	15	23	16	20	23	13	18
20 GHz	32	22	27	*	*	*	24	14	19	31	24	28	40	28	34

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	3	3	0	0	0	2	3	3	6	7	7	1	1	1
AVG thickness Kft			.28			*			.32			.30			.23
AVG trap freq GHz			1.0			*			.80			.53			1.7
AVG lyr grd -N/Kft			128			*			116			115			153

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	3	3	0	1	1	4	4	4	4	5	5	1	2	2
AVG top ht Kft			3.5			3.6			2.7			4.2			3.6
AVG thickness Kft			.26			.15			.24			.41			.22
AVG trap freq GHz			1.8			4.1			1.0			.39			1.5
AVG lyr grd -N/Kft			67			69			67			72			59
AVG lyr base Kft			3.4			3.5			2.6			4.0			3.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	49	56	52	52	60	56	55	65	60	52	56	54	34	42	38
10 to 20 Feet	25	28	26	30	30	30	22	24	23	21	26	23	27	31	29
20 to 30 Feet	10	8	9	8	6	7	5	3	4	9	8	8	17	15	16
30 to 40 Feet	4	3	3	3	1	2	3	1	2	4	3	3	7	6	7
40 to 50 Feet	2	1	2	1	0	0	3	1	2	3	2	2	3	2	2
50 to 60 Feet	1	1	1	1	0	0	2	1	2	1	1	1	2	0	1
60 to 70 Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
70 to 80 Feet	1	0	1	1	0	0	1	1	1	1	1	1	1	0	0
80 to 90 Feet	1	0	0	0	0	0	1	0	1	1	0	1	1	0	1
90 to 100 Feet	1	0	0	0	0	0	1	1	1	1	0	1	1	0	1
above 100 Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Mean height Feet	23	15	19	16	12	14	21	13	17	24	17	20	29	19	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			316			308			317			327			311
AVG station -N/Kft			12			11			12			12			11
AVG sfc wind Kts	12	12	12	12	12	12	11	11	11	10	9.4	10	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 59 34 N 150 46 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 25913 59 34 N 150 46 E
Radiosonde station height: 387 Feet
Surface obs source: MS201 55 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	6	3	5	3	2	2	7	2	5	8	4	6	7	3	5
3 GHz	8	4	6	3	2	3	9	4	6	10	5	8	9	4	7
6 GHz	11	5	8	6	3	4	14	7	10	13	7	10	12	5	8
10 GHz	18	10	14	9	4	7	19	9	14	20	12	16	22	13	17
20 GHz	27	18	22	17	10	14	25	13	19	28	20	24	39	27	33

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	3	2	3	2	2	2	0	0	0
AVG thickness Kft			.15			.08			.12			.29			.10
AVG trap freq GHz			3.1			2.9			2.0			.90			6.7
AVG lyr grd -N/Kft			202			200			124			131			353

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	2	0	1	1	2	2	2	3	4	4	0	1	1
AVG top ht Kft			7.6			17			4.6			4.4			4.9
AVG thickness Kft			.26			.15			.21			.43			.24
AVG trap freq GHz			.94			1.7			.95			.33			.74
AVG lyr grd -N/Kft			73			56			75			77			84
AVG lyr base Kft			7.5			16			4.5			4.2			4.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	49	56	52	52	60	56	55	65	60	52	56	54	34	42	38
10 to 20 Feet	25	28	26	30	30	30	22	24	23	21	26	23	27	31	29
20 to 30 Feet	10	8	9	8	6	7	5	3	4	9	8	8	17	15	16
30 to 40 Feet	4	3	3	3	1	2	3	1	2	4	3	3	7	6	7
40 to 50 Feet	2	1	2	1	0	0	3	1	2	3	2	2	3	2	2
50 to 60 Feet	1	1	1	1	0	0	2	1	2	1	1	1	2	0	1
60 to 70 Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
70 to 80 Feet	1	0	1	1	0	0	1	1	1	1	1	1	1	0	0
80 to 90 Feet	1	0	0	0	0	0	1	0	1	1	0	1	1	0	1
90 to 100 Feet	1	0	0	0	0	0	1	1	1	1	0	1	1	0	1
above 100 Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Mean height Feet	23	15	19	16	12	14	21	13	17	24	17	20	29	19	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			311			308			310			321			305
AVG station -N/Kft			12			12			11			12			11
AVG sfc wind Kts	12	12	12	12	12	12	11	11	11	10	9.4	10	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 54 18 N 155 58 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 32477 54 18 N 155 58 E
Radiosonde station height: 82 Feet
Surface obs source: MS201 55 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0
1 GHz	6	4	5	4	4	4	7	4	5	8	6	7	8	4	6
3 GHz	8	6	7	5	6	5	9	5	7	9	7	8	10	4	7
6 GHz	12	8	10	7	7	7	14	8	11	13	9	11	13	5	9
10 GHz	18	12	15	11	9	10	19	11	15	19	14	16	23	13	18
20 GHz	28	20	24	19	16	17	24	14	19	27	22	25	40	28	34

SUFFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	4	3	3	8	6	2	3	3	1	4	3	1	1	1
AVG thickness Kft			.26			.15			.37			.36			.15
AVG trap freq GHz			1.9			3.6			.52			.43			2.9
AVG lyr grd -N/Kft			243			454			110			209			200

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	3	2	0	0	0	3	3	3	3	6	5	1	1	1
AVG top ht Kft			5.3			7.6			5.0			5.4			3.0
AVG thickness Kft			.22			.11			.23			.36			.16
AVG trap freq GHz			1.7			2.4			.89			.49			3.0
AVG lyr grd -N/Kft			63			59			68			70			55
AVG lyr base Kft			5.1			7.5			4.9			5.2			2.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	49	56	52	52	60	56	55	65	60	52	56	54	34	42	38
10 to 20 Feet	25	28	26	30	30	30	22	24	23	21	26	23	27	31	29
20 to 30 Feet	10	8	9	8	6	7	5	3	4	9	8	8	17	15	16
30 to 40 Feet	4	3	3	3	1	2	3	1	2	4	3	3	7	6	7
40 to 50 Feet	2	1	2	1	0	0	3	1	2	3	2	2	3	2	2
50 to 60 Feet	1	1	1	1	3	0	2	1	2	1	1	1	2	0	1
60 to 70 Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
70 to 80 Feet	1	0	1	1	0	0	1	1	1	1	1	1	1	0	0
80 to 90 Feet	1	0	0	0	0	0	1	0	1	1	0	1	1	0	1
90 to 100 Feet	1	0	0	0	0	0	1	1	1	1	0	1	1	0	1
above 100 Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Mean height Feet	23	15	19	16	12	14	21	13	17	24	17	20	29	19	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			317			311			316			330			311
AVG station -N/Kft			12			12			12			13			12
AVG sfc wind Kts	12	12	12	12	12	12	11	11	11	10	9.4	10	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 50 54 N 142 10 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 32061 50 54 N 142 10 E
Radiosonde station height: 98 Feet
Surface obs source: MS166 45 00 N 145 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
1 GHz	11	9	10	4	2	3	9	7	8	21	18	19	10	7	9
3 GHz	13	10	12	5	2	3	11	8	10	23	21	22	13	9	11
6 GHz	21	17	19	8	4	6	15	11	13	32	31	31	29	24	26
10 GHz	38	35	37	25	19	22	25	20	23	45	46	45	58	54	56
20 GHz	53	51	32	47	43	45	36	32	34	53	57	55	75	73	74

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	3	2	1	0	1	2	2	2	2	9	6	0	1	1
AVG thickness Kft			.17			.10			.15			.15			.29
AVG trap freq GHz			2.3			3.3			2.3			1.5			2.1
AVG lyr grd -N/Kft			110			129			105			116			91

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	2	2	2	2	3	3	0	0	0
AVG top ht Kft			3.0			*			3.4			4.5			1.0
AVG thickness Kft			.27			*			.31			.31			.20
AVG trap freq GHz			1.0			*			.82			.70			1.5
AVG lyr grd -N/Kft			63			*			61			66			62
AVG lyr base Kft			2.8			*			3.1			4.3			.83

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	31	30	30	23	24	24	50	48	49	38	33	36	12	12	12
10 to 20 Feet	17	20	19	31	32	32	16	20	18	19	14	12	13	14	14
20 to 30 Feet	14	16	15	22	23	23	10	12	11	9	11	10	16	19	18
30 to 40 Feet	11	11	11	11	12	12	7	6	7	7	9	8	16	17	17
40 to 50 Feet	7	6	7	6	3	4	3	3	3	5	7	6	13	13	13
50 to 60 Feet	4	4	4	2	1	2	2	1	2	4	4	4	8	7	8
60 to 70 Feet	2	2	2	1	0	1	1	1	1	3	3	3	5	4	4
70 to 80 Feet	2	1	1	0	0	0	1	0	1	2	2	2	3	3	3
80 to 90 Feet	1	1	1	0	0	0	1	0	1	1	1	1	2	1	2
90 to 100 Feet	1	0	1	0	0	0	1	0	1	1	0	1	1	1	1
above 100 Feet	11	8	9	4	2	3	9	7	8	20	15	17	10	7	9
Mean height Feet	38	34	36	26	22	24	28	25	26	53	46	49	48	41	45

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			318			313			316			333			311
AVG station -N/Kft			12			12			12			13			11
AVG sfc wind Kts	15	15	15	20	20	20	14	13	14	12	11	12	17	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 59 22 N 143 12 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 31088 59 22 N 143 12 E
Radiosonde station height: 20 Feet
Surface obs source: MS201 55 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
1 GHz	7	4	5	3	2	2	6	3	5	11	7	9	7	4	6
3 GHz	9	5	7	3	2	3	9	4	6	14	9	12	9	4	7
6 GHz	12	7	10	6	3	4	13	7	10	18	12	15	12	5	9
10 GHz	19	11	15	9	5	7	19	10	15	24	17	20	22	13	18
20 GHz	28	19	24	17	11	14	24	14	19	32	25	29	39	28	33

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	3	3	0	1	1	2	3	3	8	8	8	0	1	1
AVG thickness Kft			.18			.11			.18			.30			.12
AVG trap freq GHz			3.6			8.9			1.6			.86			3.0
AVG lyr grd -N/Kft			153			*			170			99			190

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	0	0	0	2	3	3	5	4	5	1	1	1
AVG top ht Kft			3.8			4.1			3.4			5.2			2.7
AVG thickness Kft			.26			.09			.32			.41			.23
AVG trap freq GHz			1.5			2.8			.66			.41			2.1
AVG lyr grd -N/Kft			67			65			67			61			76
AVG lyr base Kft			3.7			4.1			3.1			4.9			2.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	49	56	52	52	60	56	55	65	60	52	56	54	34	42	38
10 to 20 Feet	25	28	26	30	30	30	22	24	23	21	26	23	27	31	29
20 to 30 Feet	10	8	9	8	6	7	5	3	4	9	8	8	17	15	16
30 to 40 Feet	4	3	3	3	1	2	3	1	2	4	3	3	7	6	7
40 to 50 Feet	2	1	2	1	0	0	3	1	2	3	2	2	3	2	2
50 to 60 Feet	1	1	1	1	0	0	2	1	2	1	1	1	2	0	1
60 to 70 Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
70 to 80 Feet	1	0	1	1	0	0	1	1	1	1	1	1	1	0	0
80 to 90 Feet	1	0	0	0	0	0	1	0	1	1	0	1	1	0	1
90 to 100 Feet	1	0	0	0	0	0	1	1	1	1	0	1	1	0	1
above 100 Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Mean height Feet	23	15	19	16	12	14	21	13	17	24	17	20	29	19	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SP dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			318			315			316			330			312
AVG station -N/Kft			12			12			12			13			12
AVG sfc wind Kts	12	12	12	12	12	12	11	11	11	10	9.4	10	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 56 27 N 138 09 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 31168 56 27 N 138 09 E
Radiosonde station height: 30 Feet
Surface obs source: MS201 55 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	*	*	*	0	1	0	1	1	1	0	0	0
1 GHz	8	5	7	*	*	*	6	4	5	11	8	10	8	3	6
3 GHz	11	7	9	*	*	*	8	6	7	14	11	12	10	4	7
6 GHz	15	9	12	*	*	*	13	9	11	18	14	16	13	5	9
10 GHz	22	14	18	*	*	*	19	12	16	24	18	21	23	13	18
20 GHz	32	23	28	*	*	*	24	16	20	32	26	29	40	27	33

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	4	3	0	0	0	2	6	4	8	10	9	1	0	1
AVG thickness Kft			.17			*			.17			.21			.14
AVG trap freq GHz			2.0			*			1.8			.91			3.3
AVG lyr grd -N/Kft			177			*			198			112			231

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	2	2	2	2	3	3	0	0	0
AVG top ht Kft			10			30			3.4			4.5			.70
AVG thickness Kft			.36			.17			.19			.47			.62
AVG trap freq GHz			1.0			1.3			2.2			.54			.19
AVG lyr grd -N/Kft			100			55			63			72			210
AVG lyr base Kft			9.4			29			3.3			4.2			.59

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	49	56	52	52	60	56	55	65	60	52	56	54	34	42	38
10 to 20 Feet	25	28	26	30	30	30	22	24	23	21	26	23	27	31	29
20 to 30 Feet	10	8	9	8	6	7	5	3	4	9	8	8	17	15	16
30 to 40 Feet	4	3	3	3	1	2	3	1	2	4	3	3	7	6	7
40 to 50 Feet	2	1	2	1	0	0	3	1	2	3	2	2	3	2	2
50 to 60 Feet	1	1	1	1	0	0	2	1	2	1	1	1	2	0	1
60 to 70 Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
70 to 80 Feet	1	0	1	1	0	0	1	1	1	1	1	1	1	0	0
80 to 90 Feet	1	0	0	0	0	0	1	0	1	1	0	1	1	0	1
90 to 100 Feet	1	0	0	0	0	0	1	1	1	1	0	1	1	0	1
above 100 Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Mean height Feet	23	15	19	16	12	14	21	13	17	24	17	20	29	19	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			316			313			315			327			309
AVG station -N/Kft			11			11			12			12			11
AVG sfc wind Kts	12	12	12	12	12	12	11	11	11	10	9.4	10	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 54 42 N 20 37 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 26702 54 42 N 20 37 E
Radiosonde station height: 89 Feet
Surface obs source: MS215 55 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	0	0	0	0	0	1	1	0	1	1	0	0	0
1 GHz	10	8	9	2	2	2	15	13	14	18	13	15	3	3	3
3 GHz	11	10	11	3	2	3	18	15	16	21	17	19	4	5	4
6 GHz	17	13	15	4	3	4	25	18	21	33	25	29	7	7	7
10 GHz	31	26	28	6	6	7	35	28	32	58	46	52	24	22	23
20 GHz	46	42	44	14	14	14	47	42	45	76	66	71	48	47	47

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	5	3	1	1	1	2	6	4	2	9	6	1	3	2
AVG thickness Kft			.26			.23			.28			.25			.26
AVG trap freq GHz			.87			1.0			.81			.76			.86
AVG lyr grd -N/Kft			109			124			122			103			85

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	2	1	2	2	1	2	3	4	4	1	2	2
AVG top ht Kft			3.3			3.7			2.9			5.0			1.5
AVG thickness Kft			.30			.24			.36			.31			.31
AVG trap freq GHz			.83			1.1			.53			.78			.90
AVG lyr grd -N/Kft			62			59			71			56			61
AVG lyr base Kft			3.0			3.5			2.7			4.7			1.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	30	31	30	51	47	49	33	38	36	12	19	15	22	21	22
10 to 20 Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
20 to 30 Feet	15	17	16	6	8	7	12	15	13	19	21	20	24	25	24
30 to 40 Feet	9	9	9	2	2	2	7	7	7	14	15	15	12	11	12
40 to 50 Feet	5	4	5	1	1	1	4	3	3	10	7	9	5	4	5
50 to 60 Feet	3	2	3	0	1	1	3	2	2	7	5	6	2	2	2
60 to 70 Feet	2	1	1	0	0	0	2	1	1	4	2	3	1	0	1
70 to 80 Feet	1	0	1	0	0	0	2	0	1	2	1	1	0	0	0
80 to 90 Feet	1	1	1	0	0	0	2	0	1	2	1	2	0	1	0
90 to 100 Feet	1	0	1	1	0	1	1	0	1	1	1	1	0	0	0
above 100 Feet	9	5	7	2	1	2	14	10	12	17	8	13	2	2	2
Mean height Feet	34	26	30	14	14	14	41	32	37	56	37	46	24	22	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			322			314			322			334			318
AVG station -N/Kft			12			12			12			13			12
AVG sfc wind Kts	14	13	13	14	15	14	11	11	11	12	11	11	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 56 33 N 21 01 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 26406 56 33 N 21 01 E
Radiosonde station height: 26 Feet
Surface obs source: KS215 55 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0
1 GHz	10	7	8	2	1	2	15	12	14	18	11	15	3	3	3
3 GHz	11	8	10	3	2	2	18	14	16	21	14	18	4	4	4
6 GHz	17	12	15	3	3	3	25	18	21	34	22	28	7	6	7
10 GHz	31	25	28	7	5	6	35	28	32	58	44	51	25	21	23
20 GHz	46	42	44	13	13	13	48	42	45	76	65	71	48	46	47

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	4	3	0	0	0	3	6	5	3	6	5	2	2	2
AVG thickness Kft			.21			.13			.23			.29			.19
AVG trap freq GHz			2.4			4.6			1.7			1.1			2.1
AVG lyr grd -N/Kft			130			242			100			106			73

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	3	3	1	1	1	2	3	3	4	6	5	1	2	2
AVG top ht Kft			2.2			2.1			1.4			3.2			1.9
AVG thickness Kft			.24			.21			.23			.24			.28
AVG trap freq GHz			1.3			1.1			1.2			1.2			1.6
AVG lyr grd -N/Kft			65			71			69			59			64
AVG lyr base Kft			2.0			2.0			1.2			3.0			1.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	30	31	30	51	47	49	33	38	36	12	19	15	22	21	22
10 to 20 Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
20 to 30 Feet	15	17	16	6	8	7	12	15	13	19	21	20	24	25	24
30 to 40 Feet	9	9	9	2	2	2	7	7	7	14	15	15	12	11	12
40 to 50 Feet	5	4	5	1	1	1	4	3	3	10	7	9	5	4	5
50 to 60 Feet	3	2	3	0	1	1	3	2	2	7	5	6	2	2	2
60 to 70 Feet	2	1	1	0	0	0	2	1	1	4	2	3	1	0	1
70 to 80 Feet	1	0	1	0	0	0	2	0	1	2	1	1	0	0	0
80 to 90 Feet	1	1	1	0	0	0	2	0	1	2	1	2	0	1	0
90 to 100 Feet	1	0	1	1	0	1	1	0	1	1	1	1	0	0	0
above 100 Feet	9	5	7	2	1	2	14	10	12	17	8	13	2	2	2
Mean height Feet	34	26	30	14	14	14	41	32	37	56	37	46	24	22	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SD dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			323			315			323			336			318
AVG station -N/Kft			13			12			13			14			12
AVG sfc wind Kts	14	13	13	14	15	14	11	11	11	12	11	11	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 56 58 N 24 04 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 26422 56 58 N 24 04 E
Radiosonde station height: 10 Feet
Surface obs source: MS215 55 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	0	0	0	0	0	1	0	0	1	1	0	0	0
1 GHz	9	7	8	2	1	2	15	12	13	18	13	16	3	3	3
3 GHz	11	9	10	3	2	2	17	14	16	21	17	19	4	4	4
6 GHz	17	13	15	3	3	3	24	17	21	34	25	29	7	7	7
10 GHz	31	25	28	7	5	6	34	27	31	58	46	52	24	22	23
20 GHz	46	42	44	13	13	13	47	42	44	76	66	71	48	46	47

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	4	3	0	0	0	1	5	3	3	9	6	1	2	2
AVG thickness Kft			.30			.22			.29			.30			.40
AVG trap freq GHz			.91			1.1			1.2			.85			.50
AVG lyr grd -N/Kft			117			121			140			113			95

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	2	0	1	1	1	3	2	2	4	3	1	1	1
AVG top ht Kft			3.1			4.1			3.0			3.1			2.1
AVG thickness Kft			.21			.17			.18			.29			.21
AVG trap freq GHz			1.7			2.1			2.8			.83			1.1
AVG lyr grd -N/Kft			60			55			54			70			60
AVG lyr base Kft			2.9			3.9			2.9			3.0			2.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	30	31	30	51	47	49	33	38	36	12	19	15	22	21	22
10 to 20 Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
20 to 30 Feet	15	17	16	6	8	7	12	15	13	19	21	20	24	25	24
30 to 40 Feet	9	9	9	2	2	2	7	7	7	14	15	15	12	11	12
40 to 50 Feet	5	4	5	1	1	1	4	3	3	10	7	9	5	4	5
50 to 60 Feet	3	2	3	0	1	1	3	2	2	7	5	6	2	2	2
60 to 70 Feet	2	1	1	0	0	0	2	1	1	4	2	3	1	0	1
70 to 80 Feet	1	0	1	0	0	0	2	0	1	2	1	1	0	0	0
80 to 90 Feet	1	1	1	0	0	0	2	0	1	2	1	2	0	1	0
90 to 100 Feet	1	0	1	1	0	1	1	0	1	1	1	1	0	0	0
above 100 Feet	9	5	7	2	1	2	14	10	12	17	8	13	2	2	2
Mean height Feet	34	26	30	14	14	14	41	32	37	56	37	46	24	22	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			321			314			320			332			317
AVG station -N/Kft			12			12			12			13			12
AVG sfc wind Kts	14	13	13	14	15	14	11	11	11	12	11	11	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 59 25 N 24 48 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 26038 59 25 N 24 48 E
Radiosonde station height: 46 Feet
Surface obs source: MS215 55 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	*	*	*	1	1	1	1	1	1	0	0	0
1 GHz	13	9	11	*	*	*	17	13	15	20	13	16	3	2	2
3 GHz	16	12	14	*	*	*	20	16	18	23	17	20	3	3	3
6 GHz	23	17	20	*	*	*	27	19	23	36	25	31	7	5	6
10 GHz	40	32	36	*	*	*	37	29	33	60	46	53	24	21	22
20 GHz	58	52	55	*	*	*	49	43	46	77	68	72	48	46	47

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	5	4	0	0	0	7	9	8	7	10	9	1	1	1
AVG thickness Kft			.18			*			.22			.20			.13
AVG trap freq GHz			2.2			*			1.9			1.1			3.6
AVG lyr grd -N/Kft			118			*			132			87			135

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1
AVG top ht Kft			4.1			5.3			3.6			3.7			4.0
AVG thickness Kft			.40			.17			.55			.54			.34
AVG trap freq GHz			.80			.73			.27			1.2			1.0
AVG lyr grd -N/Kft			86			118			72			83			72
AVG lyr base Kft			3.9			5.2			3.3			3.4			3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	30	31	30	51	47	49	33	38	36	12	19	15	22	21	22
10 to 20 Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
20 to 30 Feet	15	17	16	6	8	7	12	15	13	19	21	20	24	25	24
30 to 40 Feet	9	9	9	2	2	2	7	7	7	14	15	15	12	11	12
40 to 50 Feet	5	4	5	1	1	1	4	3	3	10	7	9	5	4	5
50 to 60 Feet	3	2	3	0	1	1	3	2	2	7	5	6	2	2	2
60 to 70 Feet	2	1	1	0	0	0	2	1	1	4	2	3	1	0	1
70 to 80 Feet	1	0	1	0	0	0	2	0	1	2	1	1	0	0	0
80 to 90 Feet	1	1	1	0	0	0	2	0	1	2	1	2	0	1	0
90 to 100 Feet	1	0	1	1	0	1	1	0	1	1	1	1	0	0	0
above 100 Feet	9	5	7	2	1	2	14	10	12	17	8	13	2	2	2
Mean height Feet	34	26	30	14	14	14	41	32	37	56	37	46	24	22	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			321			314			321			334			316
AVG station -N/Kft			13			12			13			14			12
AVG sfc wind Kts	14	13	13	14	15	14	11	11	11	12	11	11	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 57 43 N 11 46 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 2094 57 43 N 11 46 E
Radiosonde station height: 16 Feet
Surface obs source: MS215 55 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	*	*	*
1 GHz	11	7	9	2	2	2	15	11	13	17	9	13	*	*	*
3 GHz	14	9	11	3	2	2	18	12	15	20	12	16	*	*	*
6 GHz	20	13	17	3	3	3	25	15	20	33	20	26	*	*	*
10 GHz	33	25	29	7	5	6	35	26	30	57	43	50	*	*	*
20 GHz	45	39	42	13	14	14	47	40	44	76	64	70	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	1	0	1	1	2	2	2	1	3	2	0	0	0
AVG thickness Kft			.28			.15			.36			.33			*
AVG trap freq GHz			2.7			5.4			.76			2.0			*
AVG lyr grd -N/Kft			114			162			69			112			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	5	4	1	1	1	2	4	3	9	12	11	2	2	2
AVG top ht Kft			2.7			2.6			2.3			3.2			2.7
AVG thickness Kft			.24			.21			.29			.27			.20
AVG trap freq GHz			1.6			3.0			.75			1.2			1.5
AVG lyr grd -N/Kft			57			53			57			57			62
AVG lyr base Kft			2.5			2.5			2.1			3.0			2.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	30	31	30	51	47	49	33	38	36	12	19	15	22	21	22
10 to 20 Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
20 to 30 Feet	15	17	16	6	8	7	12	15	13	19	21	20	24	25	24
30 to 40 Feet	9	9	9	2	2	2	7	7	7	14	15	15	12	11	12
40 to 50 Feet	5	4	5	1	1	1	4	3	3	10	7	9	5	4	5
50 to 60 Feet	3	2	3	0	1	1	3	2	2	7	5	6	2	2	2
60 to 70 Feet	2	1	1	0	0	0	2	1	1	4	2	3	1	0	1
70 to 80 Feet	1	0	1	0	0	0	2	0	1	2	1	1	0	0	0
80 to 90 Feet	1	1	1	0	0	0	2	0	1	2	1	2	0	1	0
90 to 100 Feet	1	0	1	1	0	1	1	0	1	1	1	1	0	0	0
above 100 Feet	9	5	7	2	1	2	14	10	12	17	8	13	2	2	2
Mean Height Feet	34	26	30	14	14	14	41	32	37	56	37	46	24	22	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			321			315			321			332			317
AVG station -N/Kft			13			12			13			14			12
AVG sfc wind Kts	14	13	13	14	15	14	11	11	11	12	11	11	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 55 46 N 12 31 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 6181 55 46 N 12 31 E
Radiosonde station height: 131 Feet
Surface obs source: MS215 55 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
1 GHz	9	7	8	2	2	2	14	12	13	17	10	14	3	2	3
3 GHz	11	8	9	3	2	3	17	13	15	20	13	16	3	3	3
6 GHz	17	12	14	3	4	3	23	16	20	33	21	27	7	5	6
10 GHz	31	24	27	7	5	6	34	26	30	57	43	50	24	21	23
20 GHz	46	41	43	13	14	14	46	41	43	76	64	70	48	46	47

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	1	0	1	1	0	3	2	1	4	3	1	1	1
AVG thickness Kft			.26			.16			.34			.23			.31
AVG trap freq GHz			1.2			.90			.44			1.5			1.8
AVG lyr grd -N/Kft			140			153			85			200			124

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	8	7	2	3	3	4	4	4	12	19	16	4	6	5
AVG top ht Kft			3.2			2.2			3.5			3.6			3.4
AVG thickness Kft			.29			.27			.30			.31			.28
AVG trap freq GHz			.80			.82			.61			.83			.92
AVG lyr grd -N/Kft			58			63			62			51			57
AVG lyr base Kft			3.0			2.0			3.3			3.4			3.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	30	31	30	51	47	49	33	38	36	12	19	15	22	21	22
10 to 20 Feet	25	29	27	26	39	38	21	23	22	12	19	15	31	34	33
20 to 30 Feet	15	17	16	6	8	7	12	15	13	19	21	20	24	25	24
30 to 40 Feet	9	9	9	2	2	2	7	7	7	14	15	15	12	11	12
40 to 50 Feet	5	4	5	1	1	1	4	3	3	10	7	9	5	4	5
50 to 60 Feet	3	2	3	0	1	1	3	2	2	7	5	6	2	2	2
60 to 70 Feet	2	1	1	0	0	0	2	1	1	4	2	3	1	0	1
70 to 80 Feet	1	0	1	0	0	0	2	0	1	2	1	1	0	0	0
80 to 90 Feet	1	1	1	0	0	0	2	0	1	2	1	2	0	1	0
90 to 100 Feet	1	0	1	1	0	1	1	0	1	1	1	1	0	0	0
above 100 Feet	9	5	7	2	1	2	14	10	12	17	8	13	2	2	2
Mean height Feet	34	26	30	14	14	14	41	32	37	56	37	46	24	22	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			321			315			320			332			318
AVG station -N/Kft			13			12			12			14			13
AVG sfc wind Kts	14	13	13	14	15	14	11	11	11	12	11	11	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 54 12 N 16 12 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 12105 54 12 N 16 12 E
Radiosonde station height: 108 Feet
Surface obs source: MS215 55 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0	0	0	0	0	0	0	0	0
1 GHz	12	7	9	*	*	*	15	10	12	18	8	13	2	2	2
3 GHz	14	8	11	*	*	*	17	11	14	21	11	16	3	3	3
6 GHz	21	12	17	*	*	*	24	14	19	34	19	26	6	5	5
10 GHz	39	29	34	*	*	*	34	24	29	58	41	50	24	20	22
20 GHz	57	49	53	*	*	*	47	39	43	76	63	70	47	45	46

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	1	0	0	0	1	0	1	3	0	2	0	0	0
AVG thickness Kft			.20			*			.08			.42			.11
AVG trap freq GHz			1.2			*			2.0			1.0			.70
AVG lyr grd -N/Kft			386			*			189			149			819

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	1	0	0	0	3	0	2	1	0	1	0	0	0
AVG top ht Kft			4.1			*			3.9			4.3			*
AVG thickness Kft			.33			*			.40			.27			*
AVG trap freq GHz			2.5			*			3.0			2.1			*
AVG lyr grd -N/Kft			79			*			89			68			*
AVG lyr base Kft			3.9			*			3.7			4.1			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	30	31	30	51	47	49	33	38	36	12	19	15	22	21	22
10 to 20 Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
20 to 30 Feet	15	17	16	6	8	7	12	15	13	19	21	20	24	25	24
30 to 40 Feet	9	9	9	2	2	2	7	7	7	14	15	15	12	11	12
40 to 50 Feet	5	4	5	1	1	1	4	3	3	10	7	9	5	4	5
50 to 60 Feet	3	2	3	0	1	1	3	2	2	7	5	6	2	2	2
60 to 70 Feet	2	1	1	0	0	0	2	1	1	4	2	3	1	0	1
70 to 80 Feet	1	0	1	0	0	0	2	0	1	2	1	1	0	0	0
80 to 90 Feet	1	1	1	0	0	0	2	0	1	2	1	2	0	1	0
90 to 100 Feet	1	0	1	1	0	1	1	0	1	1	1	1	0	0	0
above 100 Feet	9	5	7	2	1	2	14	10	12	17	8	13	2	2	2
Mean height Feet	34	26	30	14	14	14	41	32	37	56	37	46	24	22	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			322			312			321			335			320
AVG station -N/Kft			13			11			13			15			12
AVG sfc wind Kts	14	13	13	14	15	14	11	11	11	12	11	11	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 54 45 N 17 31 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 12120 54 45 N 17 31 E
Radiosonde station height: 7 Feet
Surface obs source: MS215 55 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0	0	0	0	0	0	0	0	0
1 GHz	12	7	10	*	*	*	15	11	13	19	9	14	4	2	3
3 GHz	15	8	12	*	*	*	18	11	15	22	11	16	4	3	4
6 GHz	22	13	18	*	*	*	24	15	19	35	19	27	8	5	6
10 GHz	40	29	34	*	*	*	35	25	30	59	42	50	25	20	23
20 GHz	57	49	53	*	*	*	47	39	43	77	63	70	48	45	47

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	1	1	0	0	0	2	1	2	5	1	3	2	0	1
AVG thickness Kft			.22			*			.25			.26			.14
AVG trap freq GHz			1.5			*			2.0			1.9			.76
AVG lyr grd -N/Kft			157			*			82			138			251

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	5	4	2	11	7	3	2	3	4	4	4	2	3	3
AVG top ht Kft			3.4			1.2			3.0			1.8			7.5
AVG thickness Kft			.25			.15			.28			.31			.26
AVG trap freq GHz			1.8			3.2			1.3			1.8			.80
AVG lyr grd -N/Kft			61			56			57			60			71
AVG lyr base Kft			3.2			1.1			2.7			1.6			7.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	30	31	30	51	47	49	33	38	36	12	19	15	22	21	22
10 to 20 Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
20 to 30 Feet	15	17	16	6	8	7	12	15	13	19	21	20	24	25	24
30 to 40 Feet	9	9	9	2	2	2	7	7	7	14	15	15	12	11	12
40 to 50 Feet	5	4	5	1	1	1	4	3	3	10	7	9	5	4	5
50 to 60 Feet	3	2	3	0	1	1	3	2	2	7	5	6	2	2	2
60 to 70 Feet	2	1	1	0	0	0	2	1	1	4	2	3	1	0	1
70 to 80 Feet	1	0	1	0	0	0	2	0	1	2	1	1	0	0	0
80 to 90 Feet	1	1	1	0	0	0	2	0	1	2	1	2	0	1	0
90 to 100 Feet	1	0	1	1	0	1	1	0	1	1	1	1	0	0	0
above 100 Feet	9	5	7	2	1	2	14	10	12	17	8	13	2	2	2
Mean height Feet	34	26	30	14	14	14	41	32	37	56	37	46	24	22	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			324			318			323			336			318
AVG station -N/Kft			13			12			12			14			12
AVG sfc wind Kts	14	13	13	14	15	14	11	11	11	12	11	11	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 57 39 N 18 21 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 2160 57 39 N 18 21 E
Radiosonde station height: 148 Feet
Surface obs source: MS215 55 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
1 GHz	10	7	9	2	2	2	16	12	14	20	12	16	3	2	2
3 GHz	12	9	10	3	2	3	19	13	16	24	16	20	3	3	3
6 GHz	18	13	15	4	3	4	25	17	21	36	25	30	7	5	6
10 GHz	32	25	28	8	6	7	36	27	31	60	46	53	24	21	22
20 GHz	47	42	44	14	14	14	48	41	45	77	66	72	48	46	47

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	4	4	1	1	1	4	5	5	8	10	9	1	1	1
AVG thickness Kft			.21			.13			.22			.29			.20
AVG trap freq GHz			2.6			3.4			2.1			1.4			3.7
AVG lyr grd -N/Kft			112			133			154			75			88

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	8	6	2	2	2	3	8	6	7	16	12	4	4	4
AVG top ht Kft			1.9			2.3			.90			2.1			2.5
AVG thickness Kft			.20			.13			.17			.31			.20
AVG trap freq GHz			1.8			2.9			2.1			.68			1.7
AVG lyr grd -N/Kft			56			57			55			56			54
AVG lyr base Kft			1.8			2.2			.77			1.9			2.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	30	31	30	51	47	49	33	38	36	12	19	15	22	21	22
10 to 20 Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
20 to 30 Feet	15	17	16	6	8	7	12	15	13	19	21	20	24	25	24
30 to 40 Feet	9	9	9	2	2	2	7	7	7	14	15	15	12	11	12
40 to 50 Feet	5	4	5	1	1	1	4	3	3	10	7	9	5	4	5
50 to 60 Feet	3	2	3	0	1	1	3	2	2	7	5	6	2	2	2
60 to 70 Feet	2	1	1	0	0	0	2	1	1	4	2	3	1	0	1
70 to 80 Feet	1	0	1	0	0	0	2	0	1	2	1	1	0	0	0
80 to 90 Feet	1	1	1	0	0	0	2	0	1	2	1	2	0	1	0
90 to 100 Feet	1	0	1	1	0	1	1	0	1	1	1	1	0	0	0
above 100 Feet	9	5	7	2	1	2	14	10	12	17	8	13	2	2	2
Mean height Feet	34	26	30	14	14	14	41	32	37	56	37	46	24	22	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			320			313			319			332			317
AVG station -N/Kft			13			12			13			15			13
AVG sfc wind Kts	14	13	13	14	15	14	11	11	11	12	11	11	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 52 40 N 1 40 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 3496 52 40 N 1 40 E
Radiosonde station height: 46 Feet
Surface obs source: MS216 55 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0
1 GHz	7	4	5	2	1	1	10	5	7	14	7	10	3	1	2
3 GHz	9	5	7	2	1	2	12	6	9	17	9	13	4	2	3
6 GHz	15	9	12	4	2	3	17	10	13	30	19	24	11	7	9
10 GHz	39	31	35	19	16	18	34	23	28	59	49	54	44	36	40
20 GHz	61	54	58	46	41	43	52	43	47	76	70	73	70	62	66

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	4	4	1	2	2	6	4	5	7	7	7	3	2	3
AVG thickness Kft			.19			.15			.20			.26			.15
AVG trap freq GHz			2.1			3.1			1.9			1.2			2.4
AVG lyr grd -N/Kft			94			120			88			67			102

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	11	9	4	5	5	10	11	11	13	19	16	4	8	6
AVG top ht Kft			3.0			3.9			1.9			3.4			2.7
AVG thickness Kft			.25			.18			.20			.33			.29
AVG trap freq GHz			1.2			2.1			1.3			.61			.91
AVG lyr grd -N/Kft			58			54			62			68			56
AVG lyr base Kft			2.8			3.7			1.7			3.2			2.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	18	20	19	22	25	24	25	29	27	12	13	12	12	15	13
10 to 20 Feet	22	26	24	31	34	33	25	30	27	14	18	16	19	23	21
20 to 30 Feet	23	24	23	27	25	26	19	20	20	19	22	21	26	27	26
30 to 40 Feet	16	16	16	12	12	12	12	10	11	18	20	19	23	21	22
40 to 50 Feet	8	6	7	3	2	2	5	3	4	13	12	12	12	9	10
50 to 60 Feet	4	3	4	1	1	1	3	2	2	8	6	7	5	3	4
60 to 70 Feet	2	1	1	0	0	0	1	1	1	3	2	3	1	1	1
70 to 80 Feet	1	0	1	0	0	0	1	1	1	2	1	1	0	0	0
80 to 90 Feet	1	0	0	0	0	0	1	0	1	1	1	1	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0
above 100 Feet	5	2	4	1	1	1	8	3	5	11	4	7	2	1	1
Mean height Feet	33	25	29	22	19	21	33	24	28	45	33	39	30	26	28

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL ducts			1			0			0			2			0
AVG station N			325			318			326			335			322
AVG station -N/Kft			14			13			14			15			13
AVG sfc wind Kts	16	16	16	18	18	18	14	13	14	14	14	14	20	20	20

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 54 31 N 9 33 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 10035 54 31 N 9 33 E
Radiosonde station height: 157 Feet
Surface obs source: MS216 55 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
1 GHz	6	3	4	1	1	1	8	4	6	12	6	9	2	1	1
3 GHz	7	3	5	2	1	1	9	5	7	14	7	10	2	1	1
6 GHz	13	8	11	3	1	2	14	8	11	27	17	22	9	5	7
10 GHz	37	30	34	19	15	17	31	22	26	57	48	52	43	35	39
20 GHz	60	53	57	46	40	43	50	42	46	75	69	72	69	62	65

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	1	0	0	0	1	2	2	2	4	3	0	0	0
AVG thickness Kft			.31			.30			.25			.36			.31
AVG trap freq GHz			1.4			.45			1.7			1.0			2.5
AVG lyr grd -N/Kft			136			167			135			136			105

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	10	12	11	4	5	5	10	10	10	22	23	23	5	8	7
AVG top ht Kft			3.4			3.5			2.8			3.9			3.5
AVG thickness Kft			.29			.20			.28			.39			.29
AVG trap freq GHz			1.1			1.8			1.2			.56			.94
AVG lyr grd -N/Kft			54			54			52			54			56
AVG lyr base Kft			3.2			3.3			2.6			3.5			3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	18	20	19	22	25	24	25	29	27	12	13	12	12	15	13
10 to 20 Feet	22	26	24	31	34	33	25	30	27	14	18	16	19	23	21
20 to 30 Feet	23	24	23	27	25	26	19	20	20	19	22	21	26	27	25
30 to 40 Feet	16	16	16	12	12	12	12	10	11	18	20	19	23	21	22
40 to 50 Feet	8	6	7	3	2	2	5	3	4	13	12	12	12	9	10
50 to 60 Feet	4	3	4	1	1	1	3	2	2	8	6	7	5	3	4
60 to 70 Feet	2	1	1	0	0	0	1	1	1	3	2	3	1	1	1
70 to 80 Feet	1	0	1	0	0	0	1	1	1	2	1	1	0	0	0
80 to 90 Feet	1	0	0	0	0	0	1	0	1	1	1	1	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0
above 100 Feet	5	2	4	1	1	1	8	3	5	11	4	7	2	1	1
Mean height Feet	33	25	29	22	19	21	33	24	28	45	33	39	38	26	28

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			1			0			0			3			1
AVG station N			323			316			322			333			319
AVG station -N/Kft			13			12			12			14			12
AVG sfc wind Kts	16	16	16	18	19	18	14	13	14	14	14	14	20	20	20

IREFS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 58 52 N 5 40 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 1415 58 52 N 5 40 E
Radiosonde station height: 108 Feet
Surface obs source: MS215 35 00 N 5 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	6	2	4	1	1	1	3	4	6	11	4	7	2	1	1
3 GHz	7	3	5	2	1	1	10	5	7	13	5	9	2	1	1
6 GHz	13	7	10	3	1	2	15	8	11	26	14	20	9	5	7
10 GHz	37	29	33	19	15	17	32	21	26	56	46	51	43	35	39
20 GHz	60	52	56	46	40	43	50	41	46	75	68	72	69	62	65

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	2	1	2	1	1	1	0	0	0
AVG thickness Kft			.17			.13			.22			.20			.15
AVG trap freq GHz			2.6			1.5			1.8			3.4			3.7
AVG lyr grd -N/Kft			173			124			90			276			200

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	3	2	1	1	1	2	2	2	4	6	5	1	1	1
AVG top ht Kft			3.3			3.4			3.1			2.6			4.2
AVG thickness Kft			.35			.33			.43			.29			.36
AVG trap freq GHz			1.2			2.5			.81			.81			.65
AVG lyr grd -N/Kft			63			55			65			56			78
AVG lyr base Kft			3.1			3.2			2.8			2.3			4.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	18	20	19	22	25	24	25	29	27	12	13	12	12	15	13
10 to 20 Feet	22	26	24	31	34	33	25	30	27	14	18	16	19	23	21
20 to 30 Feet	23	24	23	27	25	26	19	20	20	19	22	21	26	27	26
30 to 40 Feet	16	16	16	12	12	12	12	10	11	18	20	19	23	21	22
40 to 50 Feet	8	6	7	3	2	2	5	3	4	13	12	12	12	9	10
50 to 60 Feet	4	3	4	1	1	1	3	2	2	8	6	7	5	3	4
60 to 70 Feet	2	1	1	0	0	0	1	1	1	3	2	3	1	1	1
70 to 80 Feet	1	0	1	0	0	0	1	1	1	2	1	1	0	0	0
80 to 90 Feet	1	0	0	0	0	0	1	0	1	1	1	1	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0
above 100 Feet	5	2	4	1	1	1	8	3	5	11	4	7	2	1	1
Mean height Feet	33	25	29	22	19	21	33	24	28	45	33	39	30	26	28

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station ht			320			314			321			330			316
AVG station -N/Kft			12			12			12			13			12
AVG sfc wind kts	16	16	16	18	18	18	14	13	14	14	14	14	20	20	20

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 60 07 N 1 10 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 3985 60 07 N 1 10 W
Radiosonde station height: 269 Feet
Surface obs source: MS217 65 00 N 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	0	0	0	1	1	1	1	1	1	0	0	0
1 GHz	5	4	4	3	3	3	6	4	5	8	6	7	3	2	3
3 GHz	7	5	6	4	4	4	8	5	7	11	8	9	4	3	3
6 GHz	10	7	8	6	5	5	11	8	10	15	11	13	7	5	6
10 GHz	26	21	24	25	19	22	24	18	21	29	25	27	27	22	24
20 GHz	51	46	49	58	49	54	45	42	44	46	44	45	54	50	52

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	6	6	4	6	5	10	6	8	9	6	8	3	4	4
AVG thickness Kft			.14			.12			.17			.16			.13
AVG trap freq GHz			2.7			3.3			2.4			2.1			3.0
AVG lyr grd -N/Kft			80			84			65			88			83

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	6	5	3	2	3	4	6	5	10	10	10	3	4	4
AVG top ht Kft			3.0			2.8			2.7			2.9			3.5
AVG thickness Kft			.25			.23			.24			.26			.26
AVG trap freq GHz			1.2			1.2			1.3			1.2			1.3
AVG lyr grd -N/Kft			57			53			53			58			65
AVG lyr base Kft			2.8			2.6			2.5			2.7			3.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	25	24	24	16	16	16	28	28	28	33	32	33	20	22	21
10 to 20 Feet	27	32	30	27	36	32	30	34	32	24	27	26	28	30	29
20 to 30 Feet	26	26	26	33	32	32	23	24	24	18	19	19	29	28	28
30 to 40 Feet	14	11	12	17	12	14	11	7	9	11	11	11	15	14	15
40 to 50 Feet	3	3	3	3	2	2	2	3	2	4	4	4	4	3	4
50 to 60 Feet	1	1	1	1	0	1	1	2	1	2	2	2	2	1	2
60 to 70 Feet	1	0	0	0	0	0	1	0	0	1	1	1	1	0	0
70 to 80 Feet	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
above 100 Feet	3	2	2	2	1	1	2	2	2	5	4	4	2	1	2
Mean height Feet	24	21	23	24	21	23	22	19	21	26	24	25	23	20	22

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			320			314			322			329			315
AVG station -N/Kft			14			13			14			15			13
AVG sfc wind Kts	18	18	18	21	20	21	16	15	16	14	14	14	22	21	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 62 01 N 6 46 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 6011 62 01 N 6 46 W
Radiosonde station height: 180 Feet
Surface obs source: MS217 65 00 N 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	2	3	2	1	1	2	2	2	5	4	5	2	1	2
3 GHz	3	2	3	2	1	2	3	2	2	6	5	6	3	1	2
6 GHz	6	4	5	3	2	3	5	4	5	10	8	9	5	3	4
10 GHz	23	18	20	23	15	19	18	14	16	25	22	24	25	20	23
20 GHz	48	44	46	57	47	52	41	39	40	42	42	42	53	49	51

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	1	0	0	0	0	0	0	0	1	1	1	0	1	1
AVG thickness Kft			.10			.16			.08			.09			.09
AVG trap freq GHz			2.8			2.3			1.0			3.6			4.1
AVG lyr grd -M/Kft			443			353			784			285			429

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	4	3	1	2	2	3	4	4	5	7	6	1	3	2
AVG top ht Kft			4.2			4.6			3.3			4.3			4.5
AVG thickness Kft			.26			.24			.22			.29			.28
AVG trap freq GHz			1.4			1.5			1.8			1.0			1.2
AVG lyr grd -M/Kft			55			59			53			52			57
AVG lyr base Kft			3.9			4.4			3.1			4.0			4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	25	24	24	16	16	16	28	28	28	33	32	33	20	22	21
10 to 20 Feet	27	32	30	27	36	32	30	34	32	24	27	26	28	30	29
20 to 30 Feet	26	26	26	33	32	32	23	24	24	18	19	19	28	28	28
30 to 40 Feet	14	11	12	17	12	14	11	7	9	11	11	11	15	14	15
40 to 50 Feet	3	3	3	3	2	2	2	3	2	4	4	4	4	3	4
50 to 60 Feet	1	1	1	1	0	1	1	2	1	2	2	2	2	1	2
60 to 70 Feet	1	0	0	0	0	0	1	0	0	1	1	1	1	0	0
70 to 80 Feet	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
above 100 Feet	3	2	2	2	1	1	2	2	2	5	4	4	2	1	2
Mean height Feet	24	21	23	24	21	23	22	19	21	26	24	25	23	20	22

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station M			318			312			320			325			313
AVG station -M/Kft			13			12			13			13			12
AVG sfc wind Kts	18	18	18	21	20	21	16	15	16	14	14	14	22	21	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 65 00 N 15 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4018 63 50 N 22 36 W
Radiosonde station height: 171 Feet
Surface obs source: MS218 65 00 N 15 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	0	0	0	1	0	0	1	1	1	0	0	0
1 GHz	5	3	4	1	1	1	7	4	5	10	4	7	3	2	2
3 GHz	7	4	5	1	2	1	9	5	7	14	5	10	4	3	3
6 GHz	10	6	8	4	3	4	12	7	10	19	10	15	6	5	6
10 GHz	29	23	26	24	18	21	30	26	28	34	24	29	28	23	26
20 GHz	51	45	48	52	41	47	51	53	52	50	41	45	52	46	49

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	4	5	1	3	2	7	4	6	13	6	10	4	4	4
AVG thickness Kft			.13			.10			.12			.18			.13
AVG trap freq GHz			2.9			3.6			2.6			2.1			3.2
AVG lyr grd -N/Kft			126			175			83			144			103

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	17	16	10	8	9	17	20	19	19	29	24	10	11	11
AVG top ht Kft			4.8			4.7			4.9			4.9			4.6
AVG thickness Kft			.26			.25			.26			.28			.26
AVG trap freq GHz			.73			.72			.83			.70			.65
AVG lyr grd -N/Kft			64			66			65			63			64
AVG lyr base Kft			4.6			4.6			4.7			4.8			4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	26	29	28	19	32	25	25	22	24	34	36	35	26	28	27
10 to 20 Feet	25	27	26	30	28	29	26	26	26	22	26	24	24	28	26
20 to 30 Feet	23	23	23	28	24	26	22	28	25	17	17	17	24	23	24
30 to 40 Feet	14	13	14	17	11	14	14	16	15	11	11	11	16	14	15
40 to 50 Feet	5	4	4	3	4	3	5	4	4	5	4	4	6	4	5
50 to 60 Feet	2	1	2	2	1	1	2	0	1	3	3	3	1	1	1
60 to 70 Feet	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0
70 to 80 Feet	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
above 100 Feet	3	1	2	0	0	0	5	3	4	6	2	4	1	1	1
Mean height Feet	24	20	22	21	18	20	27	24	25	28	28	24	22	20	21

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SD dcts			1			0			2			2			1
% occur 2+ EL dcts			2			1			1			4			1
AVG station N			315			309			317			322			310
AVG station -N/Kft			12			11			12			13			11
AVG sfc wind Kts	19	19	19	24	23	24	17	17	17	14	14	14	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 61 48 N 29 12 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YA 61 48 N 29 12 W
Radiosonde station height: 39 Feet
Surface obs source: MS219 65 00 N 25 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	48	26	1	2	2	5	185	95	6	5	5	1	1	1
3 GHz	5	72	38	2	3	3	7	275	141	7	6	7	2	2	2
5 GHz	7	107	57	4	6	5	10	411	211	11	9	10	4	3	4
10 GHz	27	144	86	26	18	22	24	511	267	24	27	25	35	21	28
20 GHz	53	179	116	59	41	50	45	576	310	41	49	45	69	52	60

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	3	2	2	4	3	4	2	3	1	2	2	1	3	2
AVG thickness Kft			.20			.18			.18			.28			.17
AVG trap freq GHz			2.1			2.7			2.0			1.1			2.6
AVG lyr grd -N/Kft			97			77			104			69			138

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	2	2	1	0	1	5	1	3	4	4	4	1	2	2
AVG top ht Kft			3.8			3.9			3.4			3.8			4.1
AVG thickness Kft			.27			.25			.22			.27			.34
AVG trap freq GHz			1.5			2.0			2.0			1.3			.55
AVG lyr grd -N/Kft			65			76			60			64			59
AVG lyr base Kft			3.6			3.8			3.2			3.6			3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	23	31	27	16	25	21	26	60	43	35	23	29	13	17	15
10 to 20 Feet	25	41	33	26	37	31	31	68	49	25	28	26	19	32	25
20 to 30 Feet	26	36	31	33	24	28	21	67	44	17	23	20	34	31	33
30 to 40 Feet	16	23	19	17	10	14	11	54	32	10	13	11	26	15	20
40 to 50 Feet	4	15	9	5	2	3	3	48	26	3	5	4	5	3	4
50 to 60 Feet	2	13	7	2	1	1	2	47	24	2	2	2	2	1	1
60 to 70 Feet	0	12	6	0	0	0	0	46	23	1	0	1	1	0	0
70 to 80 Feet	0	12	6	0	1	0	1	45	23	1	1	1	0	0	0
80 to 90 Feet	1	12	6	1	0	0	1	45	23	0	1	0	0	0	0
90 to 100 Feet	0	12	6	0	0	0	1	45	23	0	1	1	0	0	0
above 100 Feet	3	48	25	0	1	1	4	186	95	6	4	5	1	0	1
Mean height Feet	25	34	30	23	19	21	25	71	48	26	27	26	26	21	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station H			317			311			318			325			313
AVG station -N/Kft			12			12			12			13			12
AVG sfc wind Kts	19	18	19	24	22	23	17	16	16	14	14	14	22	21	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 63 58 N 22 36 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4018 63 58 N 22 36 W
Radiosonde station height: 171 Feet
Surface obs source: MS219 65 00 N 25 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	0	0	0	1	0	0	1	1	1	0	0	0
1 GHz	5	48	27	1	2	1	6	185	95	10	6	8	2	2	2
3 GHz	7	71	39	1	3	2	9	273	141	13	8	11	3	2	3
6 GHz	10	107	58	3	5	4	12	407	210	18	12	15	6	3	5
10 GHz	30	143	86	25	17	21	26	505	265	30	29	30	36	22	29
20 GHz	55	178	117	58	40	49	46	568	307	47	51	49	70	52	61

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	4	5	1	3	2	7	4	6	13	6	10	4	4	4
AVG thickness Kft			.13			.10			.12			.18			.13
AVG trap freq GHz			2.9			3.6			2.6			2.1			3.2
AVG lyr grd -N/Kft			126			175			83			144			103

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	17	16	10	8	9	17	20	19	19	29	24	10	11	11
AVG top ht Kft			4.8			4.7			4.9			4.9			4.6
AVG thickness Kft			.26			.25			.26			.28			.26
AVG trap freq GHz			.73			.72			.83			.70			.65
AVG lyr grd -N/Kft			64			66			65			63			64
AVG lyr base Kft			4.6			4.6			4.7			4.8			4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	23	31	27	16	25	21	26	60	43	35	33	29	13	17	15
10 to 20 Feet	25	41	33	26	37	31	31	60	49	25	28	26	19	32	25
20 to 30 Feet	26	36	31	33	24	28	21	67	44	17	23	20	34	31	33
30 to 40 Feet	16	23	19	17	10	14	11	54	32	10	13	11	26	15	20
40 to 50 Feet	4	15	9	5	2	3	3	48	26	3	5	4	5	3	4
50 to 60 Feet	2	13	7	2	1	1	2	47	24	2	2	2	2	1	1
60 to 70 Feet	0	12	6	0	0	0	0	46	23	1	0	1	1	0	0
70 to 80 Feet	0	12	6	0	1	0	1	45	23	1	1	1	0	0	0
80 to 90 Feet	1	12	6	1	0	0	1	45	23	0	1	0	0	0	0
90 to 100 Feet	0	12	6	0	0	0	1	45	23	0	1	1	0	0	0
above 100 Feet	3	48	25	0	1	1	4	186	95	6	4	5	1	0	1
Mean height Feet	25	34	30	23	19	21	25	71	48	26	27	26	26	21	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			2			2			1
% occur 2+ EL dcts			2			1			1			4			1
AVG station N			315			309			317			322			310
AVG station -N/Kft			12			11			12			13			11
AVG sfc wind Kts	19	18	19	24	22	23	17	16	16	14	14	14	22	21	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 65 36 N 37 37 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4360 65 36 N 37 37 W
Radiosonde station height: 164 Feet
Surface obs source: MS220 65 00 N 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	2	2	1	1	1	4	2	3	6	3	4	2	1	1
3 GHz	4	2	3	1	1	1	4	2	3	7	3	5	2	1	1
6 GHz	6	4	5	2	1	2	7	5	6	11	5	8	5	3	4
10 GHz	23	21	22	17	17	17	19	16	17	28	23	26	29	30	30
20 GHz	49	51	50	50	50	50	41	43	42	47	49	48	59	64	61

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	1	1	1	1	2	2	1	1	1
AVG thickness Kft			.17			.13			.15			.21			.20
AVG trap freq GHz			3.3			3.8			4.3			2.0			3.0
AVG lyr grd -N/Kft			104			94			131			77			113

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1
AVG top ht Kft			3.4			3.6			3.2			2.5			4.1
AVG thickness Kft			.23			.11			.27			.33			.19
AVG trap freq GHz			2.1			4.2			2.1			.58			1.6
AVG lyr grd -N/Kft			121			48			277			95			63
AVG lyr base Kft			3.3			3.5			3.2			2.4			4.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	24	22	23	20	20	20	29	27	28	29	25	27	17	16	17
10 to 20 Feet	27	27	27	30	30	30	31	30	31	24	27	26	24	20	22
20 to 30 Feet	26	30	28	33	34	33	23	28	25	19	26	22	30	33	32
30 to 40 Feet	14	15	14	13	14	13	9	9	9	13	16	15	20	22	21
40 to 50 Feet	4	3	3	3	1	2	3	2	2	5	3	4	5	6	5
50 to 60 Feet	1	1	1	0	0	0	1	1	1	2	1	1	2	2	2
60 to 70 Feet	1	0	0	0	0	0	1	1	1	1	0	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
above 100 Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	1
Mean height Feet	23	21	22	21	20	20	22	20	21	27	22	24	24	24	24

GENEPAL METEOPOLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&CB dcts			0			0			0			0			0
% occur 2+ . dcts			0			0			0			0			0
AVG station H			311			307			313			314			308
AVG station -N/Kft			12			12			12			13			12
AVG sfc wind Kts	18	18	18	21	22	22	16	16	16	13	15	14	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 61 10 N 45 25 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4270 61 10 N 45 25 W
Radiosonde station height: 13 Feet
Surface obs source: MS220 65 00 N 35 06 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&r	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	2	2	1	1	1	3	2	2	5	3	4	2	1	1
3 GHz	3	2	3	2	1	2	4	2	3	7	3	5	2	1	1
6 GHz	6	4	5	2	2	2	6	4	5	10	5	7	5	3	4
10 GHz	23	22	22	18	17	17	18	15	17	28	23	26	29	30	30
20 GHz	49	31	50	50	51	51	41	43	42	47	49	48	59	6[illegible]	61

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	1	1	0	0	0	0	2	1	1	1	1
AVG thickness Kft			.16			.15			.19			.14			.14
AVG trap freq GHz			2.0			1.6			1.1			2.2			3.0
AVG lyr grd -N/Kft			116			83			85			140			155

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	0	1	0	1	1	1	1	1	1	1	1
AVG top ht Kft			3.7			3.6			4.8			3.8			2.5
AVG thickness Kft			.19			.22			.21			.19			.13
AVG trap freq GHz			2.8			2.0			2.3			2.7			4.3
AVG lyr grd -N/Kft			75			60			118			63			58
AVG lyr base Kft			3.6			3.5			4.7			3.7			2.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	24	22	23	20	20	20	29	27	28	29	25	27	17	16	17
10 to 20 Feet	27	27	27	30	30	30	31	30	31	24	27	26	24	28	22
20 to 30 Feet	26	30	28	33	34	33	23	28	25	19	26	22	30	33	32
30 to 40 Feet	14	15	14	13	14	13	9	9	9	13	16	15	20	22	21
40 to 50 Feet	4	3	3	3	1	2	3	2	2	5	3	4	5	6	5
50 to 60 Feet	1	1	1	0	0	0	1	1	1	2	1	1	2	2	2
60 to 70 Feet	1	0	0	0	0	0	1	1	1	1	0	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
above 100 Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	1
Mean height Feet	23	21	22	21	20	20	22	20	21	27	22	24	24	24	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station H			312			307			312			318			318
AVG station -N/Kft			12			12			12			12			12
AVG sfc wind Kts	18	18	18	21	22	22	16	16	16	13	15	14	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 68 42 N 52 45 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4220 68 42 N 52 45 W
Radiosonde station height: 89 Feet
Surface obs source: MS220 65 00 N 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	*	*	*
1 GHz	3	2	3	1	1	1	3	2	3	6	3	4	*	*	*
3 GHz	4	2	3	1	1	1	4	2	3	7	3	5	*	*	*
6 GHz	6	4	5	2	2	2	6	5	6	11	4	7	*	*	*
10 GHz	21	19	20	17	17	17	18	16	17	28	23	26	*	*	*
20 GHz	46	48	47	50	51	50	41	43	42	47	49	48	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	1	1	0	1	1	0	1	1	1	1	1	0	0	0
AVG thickness Kft			.17			.17			.13			.21			*
AVG trap freq GHz			1.5			1.8			1.1			1.7			*
AVG lyr grd -N/Kft			246			210			307			219			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	0	1	1	2	1	2	1	1	1
AVG top ht Kft			2.4			*			2.5			2.5			2.2
AVG thickness Kft			.22			*			.20			.23			.23
AVG trap freq GHz			1.6			*			1.5			1.9			1.3
AVG lyr grd -N/Kft			69			*			80			60			68
AVG lyr base Kft			2.3			*			2.4			2.3			2.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	24	22	23	20	20	20	29	27	28	29	25	27	17	16	17
10 to 20 Feet	27	27	27	30	30	30	31	30	31	24	27	26	24	20	22
20 to 30 Feet	26	30	28	33	34	33	23	28	25	19	26	22	39	33	32
30 to 40 Feet	14	15	14	13	14	13	9	9	9	13	16	15	20	22	21
40 to 50 Feet	4	3	3	3	1	2	3	2	2	5	3	4	5	6	5
50 to 60 Feet	1	1	1	0	0	0	1	1	1	2	1	1	2	2	2
60 to 70 Feet	1	0	0	0	0	0	1	1	1	1	0	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
above 100 Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	1
Mean height Feet	23	21	22	21	20	20	22	20	21	27	22	24	24	24	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			313			318			313			317			318
AVG station -N/Kft			12			12			12			13			12
AVG sfc wind Kts	18	18	18	21	22	22	16	16	16	13	15	14	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 64 12 N 83 22 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72915 64 12 N 83 22 W
Radiosonde station height: 210 Feet
Surface obs source: MS186 55 00 N 55 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
1 GHz	4	1	3	3	1	2	4	3	3	6	2	4	3	1	2
3 GHz	5	2	3	4	1	2	5	3	4	7	2	5	4	1	2
6 GHz	7	3	5	5	1	3	7	4	6	10	4	7	6	2	4
10 GHz	13	8	11	9	5	7	13	7	10	19	11	15	13	8	11
20 GHz	28	23	25	25	28	27	24	15	20	31	23	27	30	26	28

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	2	3	7	1	4	1	2	2	3	2	3	3	1	2
AVG thickness Kft			.19			.21			.19			.18			.17
AVG trap freq GHz			2.7			2.3			2.7			2.4			3.3
AVG lyr grd -N/Kft			113			121			107			111			111

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	4	4	1	1	1	4	2	3	9	10	10	3	3	3
AVG top ht Kft			2.8			1.6			2.9			4.0			2.6
AVG thickness Kft			.28			.13			.23			.28			.16
AVG trap freq GHz			1.4			1.6			1.2			.66			2.2
AVG lyr grd -N/Kft			63			74			59			63			55
AVG lyr base Kft			2.6			1.5			2.7			3.8			2.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	44	44	44	40	32	36	51	56	54	48	52	50	37	38	37
10 to 20 Feet	31	33	32	40	46	40	25	30	27	23	25	24	35	37	36
20 to 30 Feet	14	15	15	17	23	20	11	7	9	13	12	12	17	17	17
30 to 40 Feet	5	4	4	3	4	3	5	2	3	6	5	5	6	6	6
40 to 50 Feet	1	1	1	0	0	0	1	1	1	2	2	2	1	1	1
50 to 60 Feet	1	0	1	0	0	0	1	0	1	1	0	1	1	0	1
60 to 70 Feet	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
above 100 Feet	3	1	2	0	0	0	3	2	3	5	1	3	2	1	1
Mean height Feet	17	14	16	13	15	14	18	13	15	21	14	18	17	15	16

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL<SB dcts			0			0			0			1			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			316			321			313			315			315
AVG station -N/Kft			13			14			13			12			13
AVG sfc wind Kts	19	19	18	23	23	23	16	15	15	15	15	15	20	19	20

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 68 46 N 81 15 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 74081 68 46 N 81 15 W
Radiosonde station height: 26 Feet
Surface obs source: MS220 65 00 N 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
1 GHz	3	2	3	2	2	2	4	2	3	6	4	5	2	1	1
3 GHz	4	2	3	2	2	2	4	2	3	8	5	7	2	1	1
6 GHz	7	4	5	3	3	3	7	5	6	12	7	9	5	3	4
10 GHz	24	22	23	19	18	18	19	16	17	29	25	27	29	30	30
20 GHz	50	52	51	51	52	51	41	43	42	48	50	49	59	63	61

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	3	3	3	1	1	1	2	4	3	1	0	1
AVG thickness Kft			.23			.18			.21			.36			.15
AVG trap freq GHz			3.1			3.2			3.7			.75			5.0
AVG lyr grd -N/Kft			140			104			92			94			270

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	4	5	1	1	1	4	6	5	12	8	10	2	2	2
AVG top ht Kft			2.8			1.0			2.9			3.9			3.4
AVG thickness Kft			.17			.10			.18			.26			.15
AVG trap freq GHz			2.5			4.6			2.7			1.1			1.6
AVG lyr grd -N/Kft			61			64			54			58			68
AVG lyr base Kft			2.7			1.0			2.8			3.7			3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	24	22	23	20	20	20	29	27	28	29	25	27	17	16	17
10 to 20 Feet	27	27	27	30	30	30	31	30	31	24	27	26	24	20	22
20 to 30 Feet	26	30	28	33	34	33	23	28	25	19	26	22	30	33	32
30 to 40 Feet	14	15	14	13	14	13	9	9	9	13	16	15	20	22	21
40 to 50 Feet	4	3	3	3	1	2	3	2	2	5	3	4	5	6	5
50 to 60 Feet	1	1	1	0	0	0	1	1	1	2	1	1	2	2	2
60 to 70 Feet	1	0	0	0	0	0	1	1	1	1	0	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
above 100 Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	1
Mean height Feet	23	21	22	21	20	20	22	20	21	27	22	24	24	24	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			319			325			317			316			318
AVG station -N/Kft			13			14			13			12			13
AVG sfc wind Kts	18	18	18	21	22	22	16	16	16	13	15	14	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 69 06 N 105 07 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72525 69 06 N 105 07 W
Radiosonde station height: 89 Feet
Surface obs source: MS193 55 00 N 125 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	11	7	9	7	4	5	15	10	12	16	9	13	5	3	4
3 GHz	13	8	10	8	5	7	18	12	15	18	12	15	7	4	5
6 GHz	18	12	15	12	9	10	24	17	20	24	17	20	12	8	10
10 GHz	35	27	31	27	22	25	41	30	36	36	28	32	34	27	31
20 GHz	55	49	52	49	45	47	61	55	58	50	46	48	58	48	53

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	2	2	2	4	3	2	2	2	3	1	2	3	1	2
AVG thickness Kft			.21			.21			.21			.28			.14
AVG trap freq GHz			2.4			2.8			2.3			1.6			2.9
AVG lyr grd -N/Kft			118			96			119			140			128

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	6	6	3	2	3	7	5	6	15	14	15	2	2	2
AVG top ht Kft			2.8			.51			4.3			3.5			3.1
AVG thickness Kft			.20			.14			.21			.28			.18
AVG trap freq GHz			2.1			3.2			1.8			.95			3.3
AVG lyr grd -N/Kft			57			48			60			57			64
AVG lyr base Kft			2.7			.36			4.2			3.2			2.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	25	26	25	24	23	23	28	19	20	36	33	34	22	27	25
10 to 20 Feet	21	27	24	28	33	31	20	27	23	15	22	18	21	25	23
20 to 30 Feet	20	22	21	22	23	23	20	26	23	14	18	16	24	21	23
30 to 40 Feet	12	10	11	12	10	11	12	9	11	8	8	8	15	15	15
40 to 50 Feet	5	4	5	4	4	4	5	4	5	5	4	4	7	5	6
50 to 60 Feet	3	2	2	2	1	2	3	1	2	2	2	2	3	2	3
60 to 70 Feet	1	1	1	1	1	1	2	1	1	1	2	2	1	1	1
70 to 80 Feet	1	1	1	0	1	1	1	2	2	2	1	2	1	1	1
80 to 90 Feet	1	1	1	1	0	1	1	1	1	1	2	1	1	0	0
90 to 100 Feet	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0
above 100 Feet	10	6	8	6	3	4	15	9	12	15	9	12	4	3	4
Mean height Feet	36	29	32	29	24	27	45	35	40	41	32	36	29	24	26

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			321			328			317			318			319
AVG station -N/Kft			14			15			13			12			14
AVG sfc wind Kts	15	13	14	17	15	16	14	11	13	11	10	11	18	16	17

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 67 48 N 115 06 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72938 67 48 N 115 06 W
Radiosonde station height: 23 Feet
Surface obs source: MS193 55 00 N 125 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	10	6	8	6	3	5	15	9	12	15	10	12	5	3	4
3 GHz	12	8	10	7	4	6	17	11	14	17	12	15	6	3	4
6 GHz	17	12	14	10	7	9	23	16	20	23	17	20	11	7	9
10 GHz	34	26	30	26	21	23	41	29	35	36	28	32	33	27	30
20 GHz	54	48	51	48	44	46	61	55	58	50	46	48	57	48	53

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1
AVG thickness Kft			.28			.27			.17			.39			.28
AVG trap freq GHz			2.1			2.2			3.4			.51			2.4
AVG lyr grd -N/Kft			157			257			145			83			143

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	1	1	0	1	1	4	1	3	1	0	1
AVG top ht Kft			3.6			1.7			6.3			3.9			2.4
AVG thickness Kft			.21			.26			.23			.23			.11
AVG trap freq GHz			1.9			.76			1.3			1.7			3.7
AVG lyr grd -N/Kft			75			58			59			53			130
AVG lyr base Kft			3.4			1.5			6.1			3.7			2.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	25	26	25	24	23	23	20	19	20	36	33	34	27	27	25
10 to 20 Feet	21	27	24	28	33	31	20	27	23	15	22	18	21	25	23
20 to 30 Feet	20	22	21	22	23	23	20	26	23	14	18	16	24	21	23
30 to 40 Feet	12	10	11	12	10	11	12	9	11	9	8	8	15	15	15
40 to 50 Feet	5	4	5	4	4	4	5	4	5	5	4	4	7	5	6
50 to 60 Feet	3	2	2	2	1	2	3	1	2	2	2	2	3	2	3
60 to 70 Feet	1	1	1	1	1	1	2	1	1	1	2	2	1	1	1
70 to 80 Feet	1	1	1	0	1	1	1	2	2	2	1	2	1	1	1
80 to 90 Feet	1	1	1	1	0	1	1	1	1	1	2	1	1	0	0
90 to 100 Feet	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0
above 100 Feet	10	6	8	6	3	4	15	9	12	15	9	12	4	3	4
Mean height Feet	36	29	32	29	24	27	45	35	40	41	32	36	29	24	26

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			319			326			315			319			316
AVG station -N/Kft			12			14			12			12			12
AVG sfc wind Kts	15	13	14	17	15	16	14	11	13	11	10	11	18	16	17

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 66 52 N 162 37 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 70133 66 52 N 162 37 W
Radiosonde station height: 16 Feet
Surface obs source: MS197 55 00 N 165 60 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	0	0	0	2	0	1	3	1	2	0	0	0
1 GHz	7	3	5	2	1	1	10	3	6	15	7	11	2	1	1
3 GHz	10	4	7	3	1	2	14	4	9	21	9	15	3	1	2
6 GHz	13	5	9	5	1	3	18	5	11	26	11	19	5	2	3
10 GHz	23	13	18	12	5	9	24	9	16	34	20	27	23	17	20
20 GHz	35	35	35	28	22	25	36	19	27	45	34	39	49	46	48

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	13	5	9	4	1	3	19	5	12	26	12	19	2	1	2
AVG thickness Kft			.19			.15			.19			.27			.12
AVG trap freq GHz			2.3			3.8			2.0			1.0			2.4
AVG lyr grd -N/Kft			98			149			76			63			103

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	4	3	0	1	1	3	4	4	6	8	7	0	1	1
AVG top ht Kft			2.9			2.5			2.8			4.4			2.0
AVG thickness Kft			.23			.20			.25			.25			.21
AVG trap freq GHz			1.3			1.7			.93			1.1			1.5
AVG lyr grd -N/Kft			65			79			65			32			62
AVG lyr base Kft			2.8			2.4			2.6			2.2			1.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	36	36	35	33	32	32	44	46	45	48	45	46	32	19	29
10 to 20 Feet	32	37	34	42	46	44	31	37	34	24	25	27	32	35	31
20 to 30 Feet	17	18	17	16	16	16	12	10	11	12	16	14	27	38	28
30 to 40 Feet	8	7	7	5	4	5	5	5	4	7	6	6	14	13	13
40 to 50 Feet	2	1	2	1	1	1	1	1	1	2	2	2	4	2	3
50 to 60 Feet	1	0	1	1	0	1	1	0	1	1	1	1	1	1	1
60 to 70 Feet	1	0	0	0	0	0	1	0	0	1	0	1	1	0	0
70 to 80 Feet	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
above 100 Feet	2	1	1	1	0	1	3	1	2	3	1	2	1	0	1
Mean height Feet	19	16	18	17	15	16	18	14	16	16	15	17	22	20	21

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ SL dcts			0			0			0			1			0
AVG station P			316			316			314			321			313
AVG station -N/Kft			13			13			13			13			12
AVG sfc wind Kts	18	18	18	20	20	20	16	16	16	15	15	15	21	20	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 66 10 N 169 49 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 25399 66 10 N 169 49 W
Radiosonde station height: 23 Feet
Surface obs source: NS197 55 00 N 165 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
1 GHz	3	2	2	1	1	1	4	1	3	4	4	4	1	1	1
3 GHz	3	2	3	2	1	1	5	2	3	6	6	6	2	1	1
6 GHz	6	3	4	3	1	2	7	2	5	8	7	8	4	2	3
10 GHz	15	11	13	10	6	8	13	6	10	17	15	16	21	17	19
20 GHz	32	29	30	26	22	24	25	16	21	29	30	30	48	46	47

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	0	1	1	3	1	2	3	6	5	0	1	1
AVG thickness Kft			.18			.09			.21			.30			.10
AVG trap freq GHz			2.6			2.9			2.6			.75			4.0
AVG lyr grd -N/Kft			244			231			109			163			475

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	1	2	2	2	2	2	1	0	1
AVG top hr Kft			9.4			29			3.2			3.6			1.7
AVG thickness Kft			.33			.17			.38			.61			.18
AVG trap freq GHz			1.6			1.3			.57			.20			4.5
AVG lyr grd -N/Kft			93			65			113			132			64
AVG lyr base Kft			9.3			29			3.0			3.4			1.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	36	36	36	33	32	32	44	46	45	48	45	46	22	19	20
10 to 20 Feet	32	37	34	42	46	44	31	37	34	24	29	27	30	35	32
20 to 30 Feet	17	18	17	16	16	16	12	10	11	12	16	14	27	30	28
30 to 40 Feet	8	7	7	5	4	5	5	3	4	7	6	6	14	13	13
40 to 50 Feet	2	1	2	1	1	1	1	1	1	2	2	2	4	2	3
50 to 60 Feet	1	0	1	1	0	1	1	0	1	1	0	1	1	1	1
60 to 70 Feet	1	0	0	0	0	0	1	0	0	1	0	1	1	0	0
70 to 80 Feet	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
above 100 Feet	2	1	1	1	0	1	3	1	2	3	1	2	1	0	1
Mean height Feet	19	16	18	17	13	16	18	14	15	18	15	17	22	20	21

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			318			320			315			320			315
AVG station -N/Kft			12			13			12			12			12
AVG sfc wind Kts	18	18	18	20	20	20	16	16	16	15	15	15	21	20	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 64 30 N 165 25 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 70200 64 30 N 165 25 W
Radiosonde station height: 16 Feet
Surface obs source: MS197 55 00 N 165 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	0	1	1	0	1	1	1	0	0	0	1	1
1 GHz	4	3	3	2	4	3	5	3	4	5	2	3	3	3	3
3 GHz	5	4	5	3	6	5	6	4	5	6	2	4	4	5	4
6 GHz	7	6	7	5	8	7	9	6	7	9	3	6	6	6	6
10 GHz	17	14	15	12	13	13	15	10	12	18	12	15	24	21	22
20 GHz	34	31	32	28	29	28	27	20	23	30	27	29	50	49	50

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	7	6	3	11	7	5	6	6	5	2	4	4	8	6
AVG thickness Kft			.17			.15			.18			.21			.12
AVG trap freq GHz			2.1			2.3			2.0			1.7			2.5
AVG lyr grd -N/Kft			97			106			91			115			76

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	7	6	1	2	2	3	6	5	11	17	14	2	3	3
AVG top ht Kft			3.4			2.4			3.4			4.7			3.1
AVG thickness Kft			.22			.21			.25			.26			.17
AVG trap freq GHz			1.4			1.5			.93			.86			2.2
AVG lyr grd -N/Kft			58			62			58			58			55
AVG lyr base Kft			3.2			2.2			3.2			4.5			3.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	36	36	36	33	32	32	44	46	45	48	45	46	22	19	20
10 to 20 Feet	32	37	34	42	46	44	31	37	34	24	29	27	30	35	32
20 to 30 Feet	17	18	17	16	16	16	12	10	11	12	16	14	27	30	28
30 to 40 Feet	8	7	7	5	4	5	5	3	4	7	6	6	14	13	13
40 to 50 Feet	2	1	2	1	1	1	1	1	1	2	2	2	4	2	3
50 to 60 Feet	1	0	1	1	0	1	1	0	1	1	0	1	1	1	1
60 to 70 Feet	1	0	0	0	0	0	1	0	0	1	0	1	1	0	0
70 to 80 Feet	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
above .00 Feet	2	1	1	1	0	*	3	1	2	3	1	2	1	0	1
Mean height Feet	19	16	18	17	15	16	18	14	16	18	15	17	22	20	21

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			1			0			1			1			0
AVG station N			314			313			313			319			310
AVG station -N/Kft			12			12			12			12			11
AVG sfc wind Kts	18	18	18	20	20	20	16	16	16	15	15	15	21	20	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 64 25 N 173 13 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 25594 64 25 N 173 13 W
Radiosonde station height: 10 Feet
Surface obs source: MSISS 55 00 N 175 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0	0	0	0	0	0	0	0	0
1 GHz	3	2	2	*	*	*	4	3	3	4	2	3	2	1	1
3 GHz	4	2	3	*	*	*	6	3	4	4	2	3	2	1	2
6 GHz	6	3	5	*	*	*	8	4	6	7	4	5	4	2	3
10 GHz	18	13	15	*	*	*	15	9	12	14	9	11	23	19	21
20 GHz	34	30	32	*	*	*	28	21	24	25	22	23	51	49	50

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	2	1	2	1	1	1	1	1	1
AVG thickness Kft			.17			*			.24			.11			.14
AVG trap freq GHz			1.1			*			.74			1.1			1.5
AVG lyr grd -N/Kft			179			*			137			279			120

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	1	1	1	2	2	2	1	1	1
AVG top ht Kft			4.4			4.6			3.8			3.2			6.0
AVG thickness Kft			.28			.23			.28			.35			.26
AVG trap freq GHz			.90			.59			.72			.53			1.7
AVG lyr grd -N/Kft			78			80			72			80			81
AVG lyr base Kft			4.3			4.5			3.6			3.8			5.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	35	34	35	29	29	29	41	42	41	49	47	48	21	19	20
10 to 20 Feet	32	36	34	38	43	41	33	38	35	27	31	29	28	33	31
20 to 30 Feet	18	18	18	20	20	20	13	12	12	11	13	12	28	29	28
30 to 40 Feet	8	7	8	7	5	6	6	4	5	5	4	5	16	15	15
40 to 50 Feet	2	2	2	2	1	1	2	1	1	2	1	2	4	3	3
50 to 60 Feet	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
60 to 70 Feet	1	0	0	0	0	0	1	0	0	1	0	1	1	0	0
70 to 80 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
above 100 Feet	2	1	2	1	1	1	3	2	3	3	1	2	1	1	1
Mean height Feet	19	17	18	19	16	18	19	16	17	17	15	16	22	21	21

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			314			313			313			320			310
AVG station -N/Kft			11			12			11			12			11
AVG sfc wind Kts	19	18	19	21	21	21	17	16	16	15	15	15	22	22	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 68 55 N 179 28 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 25173 68 55 N 179 28 W
Radiosonde station height: 23 Feet
Surface obs source: MS198 55 00 N 175 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
1 GHz	3	2	3	2	2	2	3	3	3	6	4	5	1	1	1
3 GHz	4	3	3	2	3	3	5	4	4	7	5	6	2	1	1
6 GHz	6	4	5	4	4	4	7	5	6	10	6	8	4	2	3
10 GHz	17	13	15	13	10	12	14	10	12	17	12	14	23	19	21
20 GHz	34	31	33	33	29	31	27	22	24	28	24	26	51	48	50

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	3	2	1	3	2	1	2	2	5	4	5	1	1	1
AVG thickness Kft			.22			.24			.24			.24			.15
AVG trap freq GHz			2.3			1.4			1.8			.90			5.3
AVG lyr grd -M/Kft			338			209			124			159			861

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	1	1	1	1	2	2	0	0	0
AVG top ht Kft			3.0			4.2			1.8			2.9			*
AVG thickness Kft			.34			.32			.39			.31			*
AVG trap freq GHz			.47			.44			.32			.66			*
AVG lyr grd -M/Kft			77			81			82			68			*
AVG lyr base Kft			2.8			4.			1.6			2.7			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	35	34	35	29	29	29	41	42	41	49	47	48	21	19	20
10 to 20 Feet	32	36	34	38	43	41	33	38	35	27	31	29	28	33	31
20 to 30 Feet	18	18	18	28	20	20	13	12	12	11	13	12	28	29	28
30 to 40 Feet	8	7	8	7	5	6	6	4	5	5	4	5	16	15	15
40 to 50 Feet	2	2	2	2	1	1	2	1	1	2	1	2	4	3	3
50 to 60 Feet	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
60 to 70 Feet	1	0	0	0	0	0	1	0	0	1	0	1	1	0	0
70 to 80 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
above 100 Feet	2	1	2	1	1	1	3	2	3	3	1	2	1	1	1
Mean height Feet	19	17	19	19	16	18	19	16	17	17	15	16	22	21	21

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			319			326			317			317			317
AVG station -M/Kft			13			14			12			12			12
AVG sfc wind Kts	19	18	19	21	21	21	17	16	16	15	15	15	22	22	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 64 46 N 177 34 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 25563 64 46 N 177 34 E
Radiosonde station height: 7 Feet
Surface obs source: MS159 55 00 N 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
1 GHz	3	2	3	2	0	1	4	2	3	4	6	5	2	1	2
3 GHz	4	3	4	3	1	2	5	3	4	5	8	6	3	1	2
6 GHz	6	5	5	4	2	3	8	5	6	8	11	9	5	2	3
10 GHz	16	13	15	13	9	11	15	10	13	14	15	15	24	18	21
20 GHz	35	33	34	35	29	32	28	25	27	24	29	26	51	49	50

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	3	2	0	1	1	0	2	1	3	9	6	1	1	1
AVG thickness Kft			.18			.10			.24			.21			.15
AVG trap freq GHz			2.3			2.8			.79			1.4			4.1
AVG lyr grd -M/Kft			157			143			89			107			287

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	1	1	1	1	1	2	1	2	3	3	3	0	0	0
AVG top ht Kft			3.1			1.8			2.4			6.8			1.6
AVG thickness Kft			.31			.19			.29			.31			.45
AVG trap freq GHz			1.0			2.1			1.0			.72			.19
AVG lyr grd -M/Kft			91			105			71			66			123
AVG lyr base Kft			3.0			1.7			2.2			6.6			1.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	35	33	34	27	28	28	40	36	38	53	49	51	19	18	19
10 to 20 Feet	31	37	34	37	44	40	33	41	37	25	29	27	30	33	32
20 to 30 Feet	18	20	19	23	20	21	13	15	14	10	14	12	27	31	29
30 to 40 Feet	8	7	8	8	6	7	5	5	5	4	4	4	15	14	14
40 to 50 Feet	2	1	2	1	1	1	2	1	1	2	1	1	5	3	4
50 to 60 Feet	1	0	1	1	0	0	1	0	1	1	1	1	1	0	1
60 to 70 Feet	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0
70 to 80 Feet	1	0	0	0	0	0	1	0	1	1	0	1	0	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
above 100 Feet	3	1	2	2	0	1	4	1	3	3	2	2	2	1	1
Mean height Feet	20	17	18	20	16	18	20	16	18	16	14	15	24	21	22

GENERAL METEOPOLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station ht			318			319			316			322			315
AVG station -M/Kft			12			13			12			12			12
AVG sfc wind Kts	19	19	19	22	22	22	17	17	17	15	16	15	24	23	24

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 63 03 N 179 19 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 25677 63 03 N 179 19 E
Radiosonde station height: 279 Feet
Surface obs source: MS199 55 00 N 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	2	2	2	1	1	5	3	4	3	3	3	2	1	2
3 GHz	4	2	3	3	1	2	7	4	5	4	3	4	3	2	2
6 GHz	6	4	5	4	2	3	10	5	7	6	6	6	5	2	4
10 GHz	17	12	14	13	9	11	17	11	14	13	10	11	24	19	21
20 GHz	35	32	33	35	29	32	30	26	28	23	24	23	51	49	50

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	2	0	1	1	3	3	3	1	2	2	1	2	2
AVG thickness Kft			.13			.15			.14			.11			.13
AVG trap freq GHz			1.6			1.9			1.3			1.3			2.0
AVG lyr grd -M/Kft			179			119			244			191			161

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	1	1	1	0	1	1	1	1	4	2	3	1	1	1
AVG top ht Kft			3.9			2.5			*			6.2			3.1
AVG thickness Kft			.33			.26			.47			.35			.24
AVG trap freq GHz			.59			.78			.22			.56			.88
AVG lyr grd -M/Kft			68			66			*			74			65
AVG lyr base Kft			3.5			2.3			2.6			6.8			2.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	35	33	34	27	28	28	40	36	38	53	49	51	19	18	19
10 to 20 Feet	31	37	34	37	44	40	33	41	37	25	29	27	30	33	32
20 to 30 Feet	18	20	19	23	20	21	13	15	14	10	14	12	27	31	29
30 to 40 Feet	8	7	8	8	6	7	5	5	5	4	4	4	15	14	14
40 to 50 Feet	2	1	2	1	1	1	2	1	1	2	1	1	5	3	4
50 to 60 Feet	1	0	1	1	0	0	1	0	1	1	1	1	1	0	1
60 to 70. Feet	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0
70 to 80 Feet	1	0	0	0	0	0	1	0	1	1	0	1	0	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
above 100 Feet	3	1	2	2	0	1	4	1	3	3	2	2	2	1	1
Mean height Feet	20	17	18	20	16	18	20	16	18	16	14	15	24	21	22

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station M			314			314			312			318			311
AVG station -M/Kft			12			12			12			12			12
AVG sfc wind Kts	19	19	19	22	22	22	17	17	17	15	16	15	24	23	24

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 60 21 N 166 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 25954 60 21 N 166 00 E
Radiosonde station height: 7 Feet
Surface obs source: MS200 55 00 N 165 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0	0	0	0	0	0	*	*	*
1 GHz	5	3	4	*	*	*	4	2	3	7	4	6	*	*	*
3 GHz	6	4	5	*	*	*	4	3	4	8	5	7	*	*	*
6 GHz	9	6	8	*	*	*	7	5	6	12	7	9	*	*	*
10 GHz	16	11	14	*	*	*	12	8	10	20	14	17	*	*	*
20 GHz	29	24	26	*	*	*	25	20	22	33	28	31	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	1	1	0	0	0	0	2	1	1	2	2	0	0	0
AVG thickness Kft			.33			*			.13			.52			*
AVG trap freq GHz			.78			*			.91			.66			*
AVG lyr grd -N/Kft			293			*			382			284			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	1	1	1	0	1	1	1	1	4	2	3	1	0	1
AVG top ht Kft			2.8			.36			2.7			4.9			3.1
AVG thickness Kft			.27			.19			.32			.43			.12
AVG trap freq GHz			1.8			1.3			.79			.56			4.4
AVG lyr grd -N/Kft			69			54			75			70			77
AVG lyr base Kft			2.6			.20			2.5			4.6			3.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	33	33	33	27	27	27	42	42	42	46	45	45	19	17	18
10 to 20 Feet	32	37	34	42	46	44	33	40	36	23	27	25	31	33	32
20 to 30 Feet	18	19	18	19	19	19	12	11	12	13	15	14	28	29	29
30 to 40 Feet	8	7	7	6	5	6	5	3	4	7	5	6	14	14	14
40 to 50 Feet	2	2	2	2	1	1	1	1	1	2	2	2	3	4	4
50 to 60 Feet	1	1	1	0	1	1	1	1	1	2	1	1	2	1	1
60 to 70 Feet	1	1	1	0	0	0	1	0	1	1	1	1	0	1	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
above 100 Feet	4	2	3	2	1	1	4	1	2	7	3	5	2	1	2
Mean height Feet	22	18	20	19	18	18	19	15	17	24	19	22	24	22	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			6			0			0
AVG station N			316			314			315			324			312
AVG station -N/Kft			12			12			12			12			12
AVG sfc wind Kts	19	19	19	22	21	21	16	16	16	15	15	15	22	22	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 60 28 N 73 36 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 23146 60 28 N 73 36 E
Radiosonde station height: 16 Feet
Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	*	*	*
1 GHz	3	3	3	1	0	1	4	5	5	5	4	5	*	*	*
3 GHz	4	4	4	1	1	1	6	6	6	6	5	5	*	*	*
6 GHz	7	6	6	2	1	1	9	8	8	10	9	9	*	*	*
10 GHz	28	27	28	24	25	24	25	23	24	34	35	35	*	*	*
20 GHz	57	58	57	60	64	62	53	48	50	58	61	59	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	1	0	1	1	1	1	1	2	4	3	0	0	0
AVG thickness Kft			.17			.10			.12			.29			*
AVG trap freq GHz			2.9			6.1			1.5			1.1			*
AVG lyr grd -M/Kft			208			189			270			165			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
AVG top ht Kft			2.9			1.3			6.3			2.8			1.1
AVG thickness Kft			.26			.09			.34			.57			.06
AVG trap freq GHz			3.8			4.8			.25			.25			10
AVG lyr grd -M/Kft			92			56			184			70			48
AVG lyr base Kft			2.7			1.2			6.2			2.4			1.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to 20 Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	20
20 to 30 Feet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30
30 to 40 Feet	18	20	19	18	21	20	14	13	13	17	20	19	22	25	24
40 to 50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to 60 Feet	2	1	2	1	0	1	1	1	1	3	2	3	4	3	3
60 to 70 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
above 100 Feet	3	2	2	1	0	0	4	4	4	4	2	3	2	0	1
Mean height Feet	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			5			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			318			320			315			320			315
AVG station -M/Kft			13			14			12			13			12
AVG sfc wind Kts	18	17	18	20	20	20	15	14	14	15	15	15	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 69 46 N 61 40 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 23022 69 46 N 61 40 E
Radiosonde station height: 174 Feet
Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	0	0	*	*	*
1 GHz	4	3	3	1	1	1	5	5	5	6	3	5	*	*	*
3 GHz	5	3	4	1	1	1	6	6	6	8	4	6	*	*	*
6 GHz	8	5	7	2	1	2	9	8	9	12	7	10	*	*	*
10 GHz	28	27	28	24	25	24	26	23	24	36	34	35	*	*	*
20 GHz	57	57	57	60	64	62	53	48	50	59	60	59	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	1	1	0	1	1	2	1	2	5	2	4	0	0	0
AVG thickness Kft			.14			.10			.16			.16			*
AVG trap freq GHz			1.4			1.1			1.6			1.6			*
AVG lyr grd -M/Kft			253			434			166			158			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
AVG top ht Kft			1.6			*			.47			3.7			.58
AVG thickness Kft			.38			*			.37			.50			.26
AVG trap freq GHz			.85			*			1.0			.62			.93
AVG lyr grd -M/Kft			89			*			104			107			57
AVG lyr base Kft			1.4			*			.32			3.6			.38

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to 20 Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	20
20 to 30 Feet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30
30 to 40 Feet	18	20	19	15	21	20	14	13	13	17	20	19	22	25	24
40 to 50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to 60 Feet	2	1	2	1	0	1	1	1	1	3	2	3	4	2	3
60 to 70 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
above 100 Feet	3	2	2	1	0	0	4	4	4	4	2	3	2	0	1
Mean height Feet	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station ht			313			311			313			317			310
AVG stat on -M/Kft			12			12			12			12			12
AVG sfc wind Kts	18	17	18	20	20	20	15	14	14	15	15	15	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 59 58 N 30 18 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 26063 59 58 N 30 18 E
Radiosonde station height: 230 Feet
Surface obs source: MS215 55 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0
1 GHz	9	7	8	2	1	2	15	12	13	18	13	15	3	2	3
3 GHz	11	9	10	3	2	2	17	14	16	21	17	19	4	3	3
6 GHz	17	13	15	4	3	3	24	17	21	33	25	29	7	6	6
10 GHz	31	25	28	7	5	6	34	27	31	58	47	52	24	21	23
20 GHz	46	42	44	14	13	14	47	42	44	76	66	71	48	46	47

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	4	3	1	0	1	1	5	3	2	10	6	1	1	1
AVG thickness Kft			.20			.12			.22			.19			.27
AVG trap freq GHz			1.8			3.9			1.2			1.0			1.0
AVG lyr grd -N/Kft			157			235			116			111			165

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	1	1	1	2	2	2	3	5	4	0	1	1
AVG top ht Kft			3.7			3.2			3.2			5.7			2.6
AVG thickness Kft			.23			.15			.26			.24			.28
AVG trap freq GHz			1.6			2.1			1.7			2.0			.70
AVG lyr grd -N/Kft			63			56			65			67			53
AVG lyr base Kft			3.5			3.0			3.1			5.5			2.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	30	31	30	51	47	49	33	38	36	12	19	15	22	21	22
10 to 20 Feet	25	29	27	36	39	38	21	23	22	12	19	15	31	34	33
20 to 30 Feet	15	17	16	6	8	7	12	15	13	19	21	20	24	25	24
30 to 40 Feet	9	9	9	2	2	2	7	7	7	14	15	15	12	11	12
40 to 50 Feet	5	4	5	1	1	1	4	3	3	10	7	9	5	4	5
50 to 60 Feet	3	2	3	0	1	1	3	2	2	7	5	6	2	2	2
60 to 70 Feet	2	1	1	0	0	0	2	1	1	4	2	3	1	0	1
70 to 80 Feet	1	0	1	0	0	0	2	0	1	2	1	1	0	0	0
80 to 90 Feet	1	1	1	0	0	0	2	0	1	2	1	2	0	1	0
90 to 100 Feet	1	0	1	1	0	1	1	0	1	1	1	1	0	0	0
above 100 Feet	9	5	7	2	1	2	14	10	12	17	8	13	2	2	2
Mean height Feet	34	26	30	14	14	14	41	32	37	56	37	46	24	22	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			317			311			315			328			313
AVG station -N/Kft			12			12			12			13			12
AVG sfc wind Kts	14	13	13	14	15	14	11	11	11	12	11	11	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 61 43 N 30 43 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 22802 61 43 N 30 43 E
Radiosonde station height: 59 Feet
Surface obs source: MS215 55 00 N 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
1 GHz	9	6	8	2	1	2	15	11	13	17	11	14	2	2	2
3 GHz	11	8	9	3	2	2	17	12	15	19	14	17	3	3	3
6 GHz	16	11	14	3	3	3	24	16	20	32	22	27	6	5	6
10 GHz	30	24	27	7	5	6	34	25	30	57	44	51	24	21	22
20 GHz	46	41	43	13	13	13	47	40	43	76	65	70	47	46	46

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	2	1	0	0	0	1	3	2	0	5	3	0	1	1
AVG thickness Kft			.32			.31			.42			.38			.17
AVG trap freq GHz			1.9			.55			2.1			.80			4.2
AVG lyr grd -N/Kft			209			131			144			170			391

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	2	1	0	1	1	0	1	1	0	4	2	0	0	0
AVG top ht Kft			4.1			2.8			3.6			4.8			5.1
AVG thickness Kft			.28			.27			.34			.27			.22
AVG trap freq GHz			1.6			2.5			.79			1.2			1.8
AVG lyr grd -N/Kft			58			62			59			57			53
AVG lyr base Kft			3.8			2.6			3.3			4.6			5.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	30	31	30	51	47	49	33	38	36	12	19	15	22	21	22
10 to 20 Feet	25	29	27	36	39	38	21	23	22	12	19	15	21	34	33
20 to 30 Feet	15	17	16	6	8	7	12	15	13	19	21	20	24	25	24
30 to 40 Feet	9	9	9	2	2	2	7	7	7	14	15	15	12	11	12
40 to 50 Feet	5	4	5	1	1	1	4	3	3	10	7	9	5	4	5
50 to 60 Feet	3	2	3	0	1	1	3	2	2	7	5	6	2	2	2
60 to 70 Feet	2	1	1	0	0	0	2	1	1	4	2	3	1	0	1
70 to 80 Feet	1	0	1	0	0	0	2	0	1	2	1	1	0	0	0
80 to 90 Feet	1	1	1	0	0	0	2	0	1	2	1	2	0	1	0
90 to 100 Feet	1	0	1	1	0	1	1	0	1	1	1	1	0	0	0
above 100 Feet	9	5	7	2	1	2	14	10	12	17	8	13	2	2	2
Mean Height Feet	34	26	30	14	14	14	41	32	37	56	37	46	24	22	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			318			314			316			329			314
AVG station -N/Kft			12			12			12			13			12
AVG sfc wind Kts	14	13	13	14	15	14	11	11	11	12	11	11	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 65 33 N 22 07 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 2057 65 33 N 22 07 E
Radiosonde station height: 56 Feet
Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	3	3	1	0	1	4	6	5	6	4	5	2	1	1
3 GHz	4	3	4	1	1	1	6	7	6	7	4	6	3	1	2
6 GHz	8	5	7	3	1	2	8	10	9	11	8	10	8	3	6
10 GHz	31	30	30	24	25	24	25	24	25	35	35	35	40	35	38
20 GHz	59	60	60	60	64	62	53	49	51	58	61	59	67	68	67

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	1	1	1	1	4	3	3	3	3	1	1	1
AVG thickness Kft			.17			.13			.18			.24			.12
AVG trap freq GHz			2.6			3.8			2.0			1.0			3.8
AVG lyr grd -N/Kft			136			226			103			72			144

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	3	2	1	1	1	2	4	3	3	5	4	0	0	0
AVG top ht Kft			2.7			3.0			.69			2.4			4.7
AVG thickness Kft			.16			.08			.19			.31			.08
AVG trap freq GHz			3.4			4.1			1.7			.83			6.9
AVG lyr grd -N/Kft			59			69			63			56			48
AVG lyr base Kft			2.6			2.9			.55			2.1			4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to 20 Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	20
20 to 30 Feet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30
30 to 40 Feet	18	20	19	18	21	20	14	13	13	17	20	19	22	25	24
40 to 50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to 60 Feet	2	1	2	1	0	1	1	1	1	3	2	3	4	2	3
60 to 70 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
above 100 Feet	3	2	2	1	0	0	4	4	4	4	2	3	2	0	1
Mean height Feet	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			316			311			314			327			313
AVG station -N/Kft			12			12			12			13			12
AVG sfc wind Kts	18	17	18	20	20	20	15	14	14	15	15	15	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 67 15 N 14 24 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 1152 67 15 N 14 24 E
Radiosonde station height: 26 Feet
Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
190 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	2	3	1	0	1	5	5	5	4	3	4	2	1	1
3 GHz	4	3	3	1	0	1	6	6	6	5	4	5	2	1	1
6 GHz	7	5	6	3	0	2	9	9	9	10	8	9	8	3	6
10 GHz	31	29	30	24	24	24	26	23	24	34	35	34	40	35	38
20 GHz	59	60	60	60	63	62	53	48	51	57	60	59	66	68	67

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	1	1	0	1	2	2	2	1	3	2	0	1	1
AVG thickness Kft			.19			.12			.26			.16			.21
AVG trap freq GHz			2.0			2.9						1.7			1.4
AVG lyr grd -N/Kft			151			210			84			231			78

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	1	1	1	2	3	3	0	0	0
AVG top ht Kft			2.1			.58			1.8			3.9			*
AVG thickness Kft			.18			.13			.17			.23			*
AVG trap freq GHz			3.2			4.9			3.1			1.7			*
AVG lyr grd -N/Kft			52			48			55			53			*
AVG lyr base Kft			1.9			.45			1.7			3.7			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to 20 Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	20
20 to 30 Feet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30
30 to 40 Feet	18	20	19	18	21	20	14	13	13	17	20	19	22	25	24
40 to 50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to 60 Feet	2	1	2	1	0	1	1	1	1	3	2	3	4	2	3
60 to 70 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
above 100 Feet	3	2	2	1	0	0	4	4	4	4	2	3	2	0	1
Mean height Feet	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			316			310			317			327			311
AVG station -N/Kft			12			11			12			13			12
AVG sfc wind Kts	18	17	18	20	20	20	15	14	14	15	15	15	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 62 31 N 17 27 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 2066 62 31 N 17 27 E
Radiosonde station height: 20 Feet
Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0	0	0	0	0	0	0	0	0
1 GHz	3	2	3	*	*	*	4	4	4	4	2	3	2	0	1
3 GHz	4	3	3	*	*	*	5	5	5	5	3	4	2	0	1
6 GHz	8	5	7	*	*	*	8	7	8	9	6	8	8	2	5
10 GHz	33	30	31	*	*	*	24	22	23	34	33	33	40	35	37
20 GHz	59	58	58	*	*	*	52	48	50	57	60	58	66	68	67

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
AVG thickness Kft			.22			*			.20			.31			.15
AVG trap freq GHz			2.9			*			2.0			5.4			1.2
AVG lyr grd -N/Kft			128			*			139			263			162

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	1	2	2	3	2	3	0	0	0
AVG top ht Kft			2.9			7			2.0			5.8			*
AVG thickness Kft			.19			.06			.30			.21			*
AVG trap freq GHz			3.2			6.2			1.3			1.9			*
AVG lyr grd -N/Kft			52			48			56			53			*
AVG lyr base Kft			2.7			.80			1.7			5.6			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	15	15	10	9	10	19	22	21	15	17	18	13	11	12
10 to 20 Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	20
20 to 30 Feet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30
30 to 40 Feet	18	20	19	18	21	20	14	13	13	17	26	19	22	25	24
40 to 50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to 60 Feet	2	1	2	1	0	1	1	1	1	3	2	3	4	2	3
60 to 70 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
above 100 Feet	3	2	2	1	0	0	4	4	4	4	2	3	2	0	1
Mean height Feet	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&S3 dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			317			312			316			327			314
AVG station -N/Kft			12			12			12			13			12
AVG sfc wind kts	18	17	18	20	20	20	15	14	14	15	15	15	21	21	21

IREPS PEV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 65 42 N 2 12 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4YM 65 42 N 2 12 E
Radiosonde station height: 39 Feet
Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0	0	0	0	0	0	0	0	0
1 GHz	3	3	3	*	*	*	4	5	5	5	3	4	2	1	1
3 GHz	4	4	4	*	*	*	5	6	6	5	4	4	2	1	1
6 GHz	8	6	7	*	*	*	8	9	8	10	7	8	8	3	5
10 GHz	33	31	32	*	*	*	24	23	24	34	34	34	40	35	38
20 GHz	59	59	59	*	*	*	52	49	50	57	60	59	66	68	67

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	1	1	0	0	0	0	2	1	1	2	2	0	1	1
AVG thickness Kft			.20			*			.26			.24			.11
AVG trap freq GHz			2.1			*			1.3			1.1			4.0
AVG lyr grd -N/Kft			138			*			124			205			86

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	3	2	1	1	1	2	4	3	4	4	4	1	1	1
AVG top ht Kft			3.9			5.9			2.3			3.4			3.8
AVG thickness Kft			.26			.21			.26			.27			.28
AVG trap freq GHz			1.2			1.3			1.4			1.1			1.1
AVG lyr grd -N/Kft			62			71			58			57			61
AVG lyr base Kft			3.7			5.8			2.1			3.2			3.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to 20 Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	20
20 to 30 Feet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30
30 to 40 Feet	18	20	19	18	21	20	14	13	13	17	20	19	22	25	24
40 to 50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to 60 Feet	2	1	2	1	0	1	1	1	1	3	2	3	4	2	3
60 to 70 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
above 100 Feet	3	2	2	1	0	0	4	4	4	4	2	3	2	0	1
Mean height Feet	27	25	26	23	23	23	27	25	25	30	27	28	29	25	27

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			318			311			320			326			313
AVG station -N/Kft			12			11			12			13			12
AVG sfc wind Kts	13	17	18	20	20	20	15	14	14	15	15	15	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 63 42 N 9 25 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 1241 63 42 N 9 25 E
Radiosonde station height: 33 Feet
Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	2	3	1	1	1	4	5	5	5	3	4	2	1	1
3 GHz	4	3	3	1	1	1	6	6	6	6	4	5	2	1	1
6 GHz	7	5	6	2	1	2	9	9	9	11	7	9	8	3	6
10 GHz	31	29	30	24	25	24	25	23	24	35	34	34	40	35	38
20 GHz	59	60	60	60	64	62	53	49	51	58	60	59	66	68	67

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	1	0	1	1	1	2	2	3	2	3	0	1	1
AVG thickness Kft			.22			.23			.18			.25			.23
AVG trap freq GHz			1.2			.68			1.3			1.5			1.4
AVG lyr grd -N/Kft			145			84			113			227			158

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	1	1	0	1	2	2	2	1	3	2	1	1	1
AVG top ht Kft			4.9			8.9			3.5			4.1			3.0
AVG thickness Kft			.26			.24			.25			.26			.31
AVG trap freq GHz			1.1			1.0			1.5			1.0			.85
AVG lyr grd -N/Kft			63			66			56			54			69
AVG lyr base Kft			4.7			8.8			3.4			3.8			2.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to 20 Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	20
20 to 30 Feet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30
30 to 40 Feet	18	29	19	18	21	20	14	13	13	17	20	19	22	25	24
40 to 50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to 60 Feet	2	1	2	1	0	1	1	1	1	3	2	3	4	2	3
60 to 70 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
above 100 Feet	3	2	2	1	0	0	4	4	4	4	2	3	2	0	1
Mean height Feet	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SD dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			318			312			319			327			313
AVG station -N/Kft			12			12			12			13			12
AVG sfc wind Kts	18	17	18	20	20	20	15	14	14	15	15	15	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 70 55 N 8 40 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 1001 70 55 N 8 40 W
Radiosonde station height: 30 Feet
Surface obs source: MS217 65 00 N 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0	0	0	0	0	0	*	*	*
1 GHz	4	3	4	*	*	*	3	2	2	5	4	5	*	*	*
3 GHz	5	4	4	*	*	*	3	2	3	6	5	6	*	*	*
6 GHz	8	6	7	*	*	*	6	5	5	10	8	9	*	*	*
10 GHz	21	19	20	*	*	*	18	15	17	25	23	24	*	*	*
20 GHz	42	40	41	*	*	*	41	39	40	42	42	42	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0
AVG thickness Kft			.23			*			.17			.30			*
AVG trap freq GHz			3.5			*			4.3			2.8			*
AVG lyr grd -M/Kft			106			*			139			72			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	1	1	1	2	1	2	2	4	3	1	0	1
AVG top ht Kft			3.7			3.4			2.5			3.9			5.0
AVG thickness Kft			.23			.21			.24			.27			.20
AVG trap freq GHz			1.6			1.3			1.7			1.3			2.0
AVG lyr grd -M/Kft			58			61			59			52			62
AVG lyr base Kft			3.5			3.2			2.3			3.7			4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	25	24	24	16	16	16	28	28	28	33	32	33	20	22	21
10 to 20 Feet	27	32	30	27	36	32	30	34	32	24	27	26	28	30	29
20 to 30 Feet	26	26	26	33	32	32	23	24	24	18	19	19	28	28	28
30 to 40 Feet	14	11	12	17	12	14	11	7	9	11	11	11	15	14	15
40 to 50 Feet	3	3	3	3	2	2	2	3	2	4	4	4	4	3	4
50 to 60 Feet	1	1	1	1	0	1	1	2	1	2	2	2	2	1	2
60 to 70 Feet	1	0	0	0	0	0	1	0	0	1	1	1	1	0	0
70 to 80 Feet	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
above 100 Feet	3	2	2	2	1	1	2	2	2	5	4	4	2	1	2
Mean height Feet	24	21	23	24	21	23	22	19	21	26	24	25	23	20	22

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			314			311			315			318			311
AVG station -N/Kft			12			12			12			12			11
AVG sfc wind Kts	18	18	18	21	20	21	16	15	16	14	14	14	22	21	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 76 46 N 18 46 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4320 76 46 N 18 46 W
Radiosonde station height: 46 Feet
Surface obs source: MS218 65 00 N 15 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	1	2	0	0	0	5	3	4	6	2	4	2	1	1
3 GHz	4	1	3	1	0	0	5	3	4	8	2	5	2	1	1
6 GHz	7	4	5	4	2	3	8	5	6	12	6	9	5	3	4
10 GHz	26	21	23	24	16	20	26	24	25	28	21	24	27	21	24
20 GHz	49	44	46	52	40	46	48	52	50	45	37	41	50	45	48

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	0	0	0	0	0	0	0	1	0	1	1	0	1
AVG thickness Kft			.26			.58			.17			.12			.18
AVG trap freq GHz			2.0			.26			2.3			2.1			3.4
AVG lyr grd -N/Kft			144			63			189			112			292

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0
AVG top ht Kft			1.5			.36			2.1			3.2			.44
AVG thickness Kft			.18			.20			.17			.15			.20
AVG trap freq GHz			1.5			.78			2.4			2.3			.61
AVG lyr grd -N/Kft			114			101			65			69			218
AVG lyr base Kft			1.5			.29			2.0			3.1			.40

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	26	29	28	19	32	25	25	22	24	34	36	35	26	28	27
10 to 20 Feet	25	27	26	30	28	29	26	26	26	22	26	24	24	28	26
20 to 30 Feet	23	23	23	28	24	26	22	28	25	17	17	17	24	23	24
30 to 40 Feet	14	13	14	17	11	14	14	16	15	11	11	11	15	14	15
40 to 50 Feet	5	4	4	3	4	3	5	4	4	5	4	4	5	4	5
50 to 60 Feet	2	1	2	2	1	1	2	0	1	3	3	3	1	1	1
60 to 70 Feet	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0
70 to 80 Feet	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
above 100 Feet	3	1	2	0	0	0	5	3	4	6	2	4	1	1	1
Mean height Feet	24	20	22	21	18	20	27	24	25	28	20	24	22	20	21

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SL dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			316			320			314			312			316
AVG station -N/Kft			13			13			12			12			13
AVG sfc wind Kts	19	19	19	24	23	24	17	17	17	14	14	14	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 70 25 N 21 58 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4340 70 25 N 21 58 W
Radiosonde station height: 72 Feet
Surface obs source: MS219 65 00 N 25 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	49	26	2	2	2	4	186	95	7	5	6	1	1	1
3 GHz	5	72	38	3	3	3	5	276	140	8	7	8	2	1	1
6 GHz	7	108	58	5	6	5	8	413	210	11	11	11	4	2	3
10 GHz	27	145	86	27	18	23	22	514	268	24	28	26	35	20	28
20 GHz	53	181	117	60	41	50	43	580	311	41	50	46	69	51	60

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	3	2	4	4	4	0	1	1	2	4	3	1	1	1
AVG thickness Kft			.19			.24			.13			.25			.13
AVG trap freq GHz			1.9			1.9			2.3			1.4			2.1
AVG lyr grd -N/Kft			105			132			93			105			91

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	1	1	2	2	2	1	2	2	1	0	1
AVG top ht Kft			2.6			3.7			.86			.45			5.2
AVG thickness Kft			.14			.12			.20			.16			.10
AVG trap freq GHz			2.5			2.3			1.5			2.3			3.7
AVG lyr grd -N/Kft			62			75			54			56			62
AVG lyr base Kft			2.5			3.7			.71			.33			5.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	23	31	27	16	25	21	26	68	43	35	23	29	13	17	15
10 to 20 Feet	25	41	33	26	37	31	31	68	49	25	28	26	19	32	25
20 to 30 Feet	26	36	31	33	24	28	21	67	44	17	23	20	34	31	33
30 to 40 Feet	16	23	19	17	10	14	11	54	32	10	13	11	26	15	20
40 to 50 Feet	4	15	9	5	2	3	3	48	26	3	5	4	5	3	4
50 to 60 Feet	2	13	7	2	1	1	2	47	24	2	2	2	2	1	1
60 to 70 Feet	0	12	6	0	0	0	0	46	23	1	0	1	1	0	0
70 to 80 Feet	0	12	6	0	1	0	1	45	23	1	1	1	0	0	0
80 to 90 Feet	1	12	6	1	0	0	1	45	23	0	1	0	0	0	0
90 to 100 Feet	0	12	6	0	0	0	1	45	23	0	1	1	0	0	0
above 100 Feet	3	48	25	0	1	1	4	186	95	6	4	5	1	0	1
Mean height Feet	25	34	30	23	19	21	25	71	48	26	27	26	26	21	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			314			315			314			314			311
AVG station -N/Kft			13			13			13			12			12
AVG sfc wind kts	19	18	19	24	22	2	17	16	16	14	14	14	22	21	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 70 30 N 68 36 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 74090 70 30 N 68 36 W
Radiosonde station height: 7 Feet
Surface obs source: MS220 65 00 N 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0	0	0	0	0	0	*	*	*
1 GHz	5	2	3	*	*	*	3	2	2	6	2	4	*	*	*
3 GHz	6	2	4	*	*	*	4	2	3	8	2	5	*	*	*
6 GHz	9	4	6	*	*	*	6	4	5	11	3	7	*	*	*
10 GHz	24	19	21	*	*	*	18	15	17	29	22	26	*	*	*
20 GHz	44	45	45	*	*	*	41	43	42	48	48	48	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	0	0	0	0	0	0	0	2	0	1	0	0	0
AVG thickness Kft			.20			*			.28			.21			*
AVG trap freq GHz			2.7			*			3.8			1.5			*
AVG lyr grd -N/Kft			100			*			100			100			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	1	0	0	0	1	1	1	4	4	4	0	1	1
AVG top ht kft			3.2			.39			3.1			4.6			4.5
AVG thickness Kft			.13			.07			.16			.18			.12
AVG trap freq GHz			4.1			7.4			2.6			2.8			3.5
AVG lyr grd -N/Kft			57			48			67			54			59
AVG lyr base Kft			3.1			.32			3.0			4.4			4.4

EVAPORATION DUCT HEIGHTGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	24	22	23	20	20	20	29	27	28	29	25	27	17	16	17
10 to 20 Feet	27	27	27	30	30	30	31	30	31	24	27	26	24	20	22
20 to 30 Feet	26	30	28	33	34	33	23	28	25	19	26	22	30	33	32
30 to 40 Feet	14	15	14	13	14	13	9	9	9	13	16	15	20	22	21
40 to 50 Feet	4	3	3	3	1	2	3	2	2	5	3	4	5	6	5
50 to 60 Feet	1	1	1	0	0	0	1	1	1	2	1	1	2	2	2
60 to 70 Feet	1	0	0	0	0	0	1	1	1	1	0	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
above 100 Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	1
Mean height Feet	23	21	22	21	20	20	22	20	21	27	22	24	24	24	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur E-SB dcts			0			0			0			0			0
% occur 2-EL dcts			0			0			0			0			0
AVG station H			315			320			313			314			314
AVG station -N/Kft			12			12			12			12			12
AVG sfc wind kts	18	18	18	21	22	22	16	16	16	13	15	14	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 76 31 N 68 49 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4202 76 31 N 68 49 W
Radiosonde station height: 98 Feet
Surface obs source: MS220 65 00 N 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	2	3	2	2	2	4	2	3	6	3	4	2	1	1
3 GHz	4	2	3	3	3	3	4	3	3	7	3	5	2	1	1
6 GHz	6	4	5	3	4	4	7	6	6	11	5	8	5	3	4
10 GHz	24	22	23	19	19	19	19	16	18	28	23	26	29	30	30
20 GHz	50	52	51	51	52	52	41	43	42	47	49	48	59	64	61

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	3	4	4	1	2	2	1	2	2	1	1	1
AVG thickness Kft			.13			.18			.11			.12			.09
AVG trap freq GHz			3.0			2.5			2.1			2.5			5.0
AVG lyr grd -N/Kft			166			166			102			166			231

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	2	0	1	1	1	3	2	3	2	3	1	2	2
AVG top ht Kft			2.6			1.0			2.5			4.2			2.7
AVG thickness Kft			.17			.16			.15			.19			.16
AVG trap freq GHz			2.1			1.9			2.2			1.9			2.5
AVG lyr grd -N/Kft			59			71			56			54			55
AVG lyr base Kft			2.5			.88			2.4			4.0			2.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	24	22	23	20	20	20	29	27	28	29	25	27	17	16	17
10 to 20 Feet	27	27	27	30	30	30	31	30	31	24	27	26	24	20	22
20 to 30 Feet	26	30	28	33	34	33	23	22	25	19	26	22	30	33	32
30 to 40 Feet	14	15	14	13	14	13	9	9	9	13	16	15	20	22	21
40 to 50 Feet	4	3	3	3	1	2	3	2	2	5	3	4	5	5	5
50 to 60 Feet	1	1	1	0	0	0	1	1	1	2	1	1	2	2	2
60 to 70 Feet	1	0	0	0	0	0	1	1	1	1	0	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
above 100 Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	1
Mean height Feet	23	21	22	21	20	20	22	20	21	27	22	24	24	24	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			311			317			308			306			311
AVG station -h/Kft			11			13			11			11			11
AVG sfc wind Kts	18	18	18	21	22	22	16	16	16	13	15	14	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 74 43 N 94 58 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72924 74 43 N 94 58 W
Radiosonde station height: 125 Feet
Surface obs source: MS220 65 00 N 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	2	2	1	1	1	4	2	3	6	3	4	2	1	1
3 GHz	4	2	3	1	1	1	4	2	3	7	3	5	2	1	1
6 GHz	6	4	5	2	1	2	7	5	6	11	5	8	5	3	4
10 GHz	23	22	23	17	17	17	19	16	17	28	24	26	29	30	30
20 GHz	50	52	51	50	50	50	41	43	42	47	49	48	59	64	61

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	0	1	1	1	1	1	2	2	1	1	1
AVG thickness Kft			.16			.16			.16			.23			.10
AVG trap freq GHz			3.7			4.8			4.1			1.2			4.6
AVG lyr grd -N/Kft			109			117			145			84			88

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	1	1	1	2	2	2	5	5	5	1	1	1
AVG top ht Kft			2.0			.91			2.7			3.8			.54
AVG thickness Kft			.19			.21			.21			.21			.11
AVG trap freq GHz			2.0			1.3			.91			1.5			4.1
AVG lyr grd -N/Kft			64			73			61			60			61
AVG lyr base Kft			1.9			.79			2.6			3.6			.56

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	24	22	23	20	20	20	29	27	28	29	25	27	17	16	17
10 to 20 Feet	27	27	27	30	30	30	31	30	31	24	27	26	24	20	22
20 to 30 Feet	26	30	28	33	34	33	23	28	25	19	26	22	30	33	32
30 to 40 Feet	14	15	14	13	14	13	9	9	9	13	16	15	20	22	21
40 to 50 Feet	4	3	3	3	1	2	3	2	2	5	3	4	5	6	5
50 to 60 Feet	1	1	1	0	0	0	1	1	1	2	1	1	2	2	2
60 to 70 Feet	1	0	0	0	0	0	1	1	1	1	0	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
above 100 Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	1
Mean height Feet	23	21	22	21	20	20	22	20	21	27	22	24	24	24	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station H			318			326			314			313			319
AVG station -N/Kft			13			15			13			12			13
AVG sfc wind Kts	18	18	18	21	22	22	16	16	16	13	15	14	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 78 46 N 103 31 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 74074 78 46 N 103 31 W
Radiosonde station height: 89 Feet
Surface obs source: MS220 65 00 N 35 00 W

PERCENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	2	2	1	1	1	4	2	3	6	3	4	1	1	1
3 GHz	4	2	3	2	2	2	5	2	3	7	3	5	1	1	1
6 GHz	6	4	5	2	3	3	7	5	6	11	4	7	4	3	4
10 GHz	24	22	23	18	18	18	19	16	18	28	23	26	29	30	30
20 GHz	50	52	51	50	51	51	42	43	42	47	49	48	59	64	61

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	2	2	2	1	2	1	1	1	0	1	1
AVG thickness Kft			.20			.25			.19			.22			.14
AVG trap freq GHz			2.0			2.1			1.7			1.5			2.7
AVG lyr grd -N/Kft			149			227			102			149			117

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	4	3	1	2	2	4	4	4	5	6	6	2	2	2
AVG top ht Kft			1.9			1.1			1.7			3.3			1.5
AVG thickness Kft			.17			.15			.17			.20			.17
AVG trap freq GHz			2.0			2.7			1.6			1.3			2.4
AVG lyr grd -N/Kft			55			56			55			54			55
AVG lyr base Kft			1.7			.94			1.5			3.1			1.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	24	22	23	20	20	20	29	27	28	29	25	27	17	16	17
10 to 20 Feet	27	27	27	30	30	30	31	30	31	24	27	26	24	20	22
20 to 30 Feet	26	30	28	33	34	33	23	28	25	19	26	22	30	33	32
30 to 40 Feet	14	15	14	13	14	13	9	9	9	13	16	15	20	22	21
40 to 50 Feet	4	3	3	3	1	2	3	2	2	5	3	4	5	6	5
50 to 60 Feet	1	1	1	0	0	0	1	1	1	2	1	1	2	2	2
60 to 70 Feet	1	0	0	0	0	0	1	1	1	1	0	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
above 100 Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	1
Mean Height Feet	23	21	22	21	20	20	22	20	21	27	22	24	24	24	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			321			329			316			314			323
AVG station -N/Kft			14			16			13			12			14
AVG sfc wind Kts	18	18	18	21	22	22	16	16	16	13	15	14	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 76 13 N 119 19 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 74072 76 13 N 119 19 W
Radiosonde station height: 180 Feet
Surface obs source: MS193 55 00 N 125 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	10	6	8	6	3	5	15	9	12	15	9	12	5	3	4
3 GHz	12	7	10	8	3	6	18	11	15	16	12	14	6	3	4
6 GHz	17	11	14	11	6	9	24	16	20	22	16	19	11	7	9
10 GHz	34	26	30	27	20	23	41	29	35	35	28	31	33	27	30
20 GHz	54	48	51	48	43	46	61	55	58	49	45	47	57	48	53

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	1	1	0	1	2	1	2	0	0	0	1	0	1
AVG thickness Kft			.19			.21			.22			.20			.11
AVG trap freq GHz			3.3			2.1			1.4			4.0			5.7
AVG lyr grd -N/Kft			108			74			103			142			83

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	4	3	1	2	2	2	4	3	5	10	8	1	1	1
AVG top ht Kft			2.6			1.0			3.5			3.2			2.5
AVG thickness Kft			.18			.16			.15			.26			.14
AVG trap freq GHz			2.1			2.9			2.7			.76			2.2
AVG lyr grd -N/Kft			62			56			56			65			73
AVG lyr base Kft			2.4			.87			3.4			3.0			2.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	25	26	25	24	23	23	20	19	20	36	33	34	22	27	25
10 to 20 Feet	21	27	24	28	33	31	20	27	23	15	22	18	21	25	23
20 to 30 Feet	20	22	21	22	23	23	20	26	23	14	18	16	24	21	23
30 to 40 Feet	12	10	11	12	10	11	12	9	11	8	8	8	15	15	15
40 to 50 Feet	5	4	5	4	4	4	5	4	5	5	4	4	7	5	6
50 to 60 Feet	3	2	2	2	1	2	3	1	2	2	2	2	3	2	3
60 to 70 Feet	1	1	1	1	1	1	2	1	1	1	2	2	1	1	1
70 to 80 Feet	1	1	1	0	1	1	1	2	2	2	1	2	1	1	1
80 to 90 Feet	1	1	1	1	0	1	1	1	1	1	2	1	1	0	0
90 to 100 Feet	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0
above 100 Feet	10	6	8	6	3	4	15	9	12	15	9	12	4	3	4
Mean height Feet	36	29	32	29	24	27	45	35	40	41	32	36	29	24	26

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SS dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			319			328			314			313			320
AVG station -N/Kft			14			16			13			12			14
AVG sfc wind Kts	15	13	14	17	15	16	14	11	13	11	10	11	18	16	17

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 71 58 N 125 16 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 74051 71 58 N 125 15 W
Radiosonde station height: 272 Feet
Surface obs source: MS193 55 00 N 125 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	19	6	8	7	3	5	15	10	12	16	9	13	4	3	4
3 GHz	12	8	10	8	4	6	17	12	15	18	12	15	5	3	4
6 GHz	17	12	15	11	7	9	23	17	20	24	17	20	11	8	9
10 GHz	34	26	30	27	21	24	41	38	35	36	28	32	33	27	30
20 GHz	54	48	51	48	44	46	61	55	58	50	46	48	57	48	53

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	1	1	1	2	2	3	1	2	0	1	1
AVG thickness Kft			.19			.23			.19			.21			.15
AVG trap freq GHz			2.3			1.8			2.0			1.8			3.7
AVG lyr grd -N/Kft			185			276			261			184			99

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	4	4	2	1	2	3	4	4	6	10	8	2	2	2
AVG top ht Kft			2.3			1.0			2.2			3.4			2.8
AVG thickness Kft			.20			.17			.24			.25			.15
AVG trap freq GHz			1.9			1.8			.88			.83			4.0
AVG lyr grd -N/Kft			57			55			59			58			56
AVG lyr base Kft			2.2			.82			2.1			3.2			2.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	25	26	25	24	23	23	20	19	20	36	33	34	22	27	25
10 to 20 Feet	21	27	24	28	33	31	28	27	23	15	22	18	21	25	23
20 to 30 Feet	20	22	21	22	23	23	20	26	23	14	18	16	24	21	23
30 to 40 Feet	12	10	11	12	10	11	12	9	11	8	8	8	15	15	15
40 to 50 Feet	5	4	5	4	4	4	5	4	5	5	4	4	7	5	6
50 to 60 Feet	3	2	2	2	1	2	3	1	2	2	2	2	3	2	3
60 to 70 Feet	1	1	1	1	1	1	2	1	1	1	2	2	1	1	1
70 to 80 Feet	1	1	1	0	1	1	1	2	2	2	1	2	1	1	1
80 to 90 Feet	1	1	1	1	0	1	1	1	1	1	2	1	1	0	0
90 to 100 Feet	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0
above 100 Feet	10	6	8	6	3	4	15	9	12	15	9	12	4	3	4
Mean height Feet	36	29	32	29	24	27	45	35	40	41	32	36	29	24	26

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			1			0
AVG station N			316			323			313			314			315
AVG station -N/Kft			13			15			13			12			13
AVG sfc wind Kts	15	13	14	17	15	16	14	11	13	11	10	11	16	16	17

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 70 07 N 143 37 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 70086 70 07 N 143 37 W
Radiosonde station height: 49 Feet
Surface obs source: HS195 55 00 N 145 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
1 GHz	5	2	4	2	2	2	7	2	5	9	4	6	2	1	2
3 GHz	6	3	5	2	2	2	10	2	6	11	5	8	3	2	2
6 GHz	10	5	7	4	3	3	13	4	9	16	8	12	6	3	5
10 GHz	25	18	21	16	12	14	24	12	18	29	23	26	30	25	27
20 GHz	45	40	43	38	35	37	40	31	36	45	44	44	56	52	54

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	3	3	2	3	3	4	2	3	5	5	5	2	2	2
AVG thickness Kft			.19			.14			.21			.29			.12
AVG trap freq GHz			1.8			2.6			1.8			1.1			1.8
AVG lyr grd -N/Kft			135			87			99			122			231

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	11	9	3	4	4	7	12	10	15	24	20	3	3	3
AVG top ht Kft			1.6			1.5			1.9			1.5			1.7
AVG thickness Kft			.24			.18			.24			.34			.19
AVG trap freq GHz			1.5			1.6			2.2			.50			1.5
AVG lyr grd -N/Kft			59			54			59			59			62
AVG lyr base Kft			1.5			1.4			1.7			1.2			1.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	31	30	31	31	30	30	35	36	35	36	33	35	22	22	22
10 to 20 Feet	26	31	28	31	36	34	27	34	31	22	26	24	23	27	25
20 to 30 Feet	20	23	22	23	23	23	17	20	18	16	21	19	26	27	27
30 to 40 Feet	11	11	11	10	8	9	8	7	7	10	11	10	17	17	17
40 to 50 Feet	4	3	3	2	1	2	3	1	2	4	4	4	7	5	6
50 to 60 Feet	2	1	1	1	0	1	2	0	1	2	2	2	2	1	2
60 to 70 Feet	1	0	1	0	0	0	1	0	1	1	1	1	0	0	0
70 to 80 Feet	1	0	0	0	0	0	1	0	0	1	0	1	0	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
above 100 Feet	4	1	2	1	1	1	6	1	4	7	1	4	1	1	1
Mean height Feet	24	19	21	19	17	18	25	17	21	27	20	24	24	21	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			1			0			1			2			0
AVG station N			319			325			316			318			316
AVG station -N/Kft			14			15			13			13			12
AVG sfc wind Kts	18	18	18	20	20	20	16	17	17	15	16	15	21	20	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 71 18 N 156 46 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 70026 71 18 N 156 46 W
Radiosonde station height: 26 Feet
Surface obs source: MS196 55 00 N 155 00 W

PERCENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
1 GHz	5	2	3	1	2	2	7	2	4	8	3	6	3	1	2
3 GHz	6	2	4	2	2	2	8	2	5	11	4	7	3	2	2
6 GHz	9	4	7	3	3	3	12	4	8	15	6	11	6	4	5
10 GHz	22	15	18	12	10	11	20	9	15	26	18	22	27	22	25
20 GHz	40	35	37	31	29	30	34	24	29	40	35	37	53	51	52

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	3	3	2	3	3	4	2	3	7	3	5	1	2	2
AVG thickness Kft			.17			.13			.17			.21			.15
AVG trap freq GHz			2.5			3.7			2.0			1.4			3.0
AVG lyr grd -N/Kft			99			86			75			131			102

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	10	9	3	3	3	10	13	12	13	21	17	2	3	3
AVG top ht Kft			1.9			1.6			2.1			2.7			1.4
AVG thickness Kft			.19			.12			.20			.28			.15
AVG trap freq GHz			2.1			4.0			1.3			.72			2.5
AVG lyr grd -N/Kft			60			59			61			63			56
AVG lyr base Kft			1.8			1.5			1.9			2.5			1.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	35	33	34	34	33	34	41	39	40	42	37	40	21	21	21
10 to 20 Feet	27	34	30	35	39	37	26	37	32	22	29	26	26	29	27
20 to 30 Feet	18	20	19	19	19	19	14	15	14	14	17	16	26	29	28
30 to 40 Feet	9	8	9	7	5	6	6	4	5	8	9	9	16	15	15
40 to 50 Feet	3	2	3	2	1	1	2	1	2	3	3	3	6	4	5
50 to 60 Feet	2	1	1	1	0	0	1	1	1	2	1	1	2	1	2
60 to 70 Feet	1	0	0	1	0	0	1	0	1	1	0	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
above 100 Feet	3	1	2	1	1	1	5	1	3	5	2	4	2	1	2
Mean height Feet	22	18	20	17	16	17	23	16	19	24	18	21	25	21	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SP dcts			0			0			0			1			0
% occur 2+ EL dcts			1			0			1			1			0
AVG station N			319			324			316			318			317
AVG station -N/Kft			14			15			13			13			13
AVG sfc wind Kts	18	18	18	20	20	20	16	17	17	15	15	15	22	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 70 58 N 178 31 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 21982 70 58 N 178 31 W
Radiosonde station height: 10 Feet
Surface obs source: MS198 55 00 N 175 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0	0	0	0	0	0	*	*	*
1 GHz	4	2	3	*	*	*	4	2	3	4	3	3	*	*	*
3 GHz	4	3	4	*	*	*	5	2	4	4	4	4	*	*	*
6 GHz	7	4	6	*	*	*	7	4	5	7	5	6	*	*	*
10 GHz	14	9	12	*	*	*	15	8	11	14	11	12	*	*	*
20 GHz	26	22	24	*	*	*	27	20	24	25	23	24	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	1	0	1	1	3	2	0	0	0
AVG thickness Kft			.26			*			.28			.24			*
AVG trap freq GHz			1.0			*			.70			1.4			*
AVG lyr grd -N/Kft			159			*			168			149			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	0	1	1	2	1	2	0	0	0
AVG top ht Kft			8.9			26			1.8			5.3			2.2
AVG thickness Kft			.20			.15			.22			.26			.16
AVG trap freq GHz			1.5			1.2			1.4			1.6			1.8
AVG lyr grd -N/Kft			69			67			85			57			67
AVG lyr base Kft			8.8			26			1.7			5.1			2.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	35	34	35	29	29	29	41	42	41	49	47	48	21	19	20
10 to 20 Feet	32	36	34	38	43	41	33	38	35	27	31	29	28	33	31
20 to 30 Feet	18	18	18	20	20	20	13	12	12	11	13	12	28	29	28
30 to 40 Feet	8	7	8	7	5	6	6	4	5	5	4	5	16	15	15
40 to 50 Feet	2	2	2	2	1	1	2	1	1	2	1	2	4	3	3
50 to 60 Feet	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1
60 to 70 Feet	1	0	0	0	0	0	1	0	0	1	0	1	1	0	0
70 to 80 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
above 100 Feet	2	1	2	1	1	1	3	2	3	3	1	2	1	1	1
Mean height Feet	19	17	18	19	16	18	19	16	17	17	15	16	22	21	21

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			318			323			316			315			316
AVG station -N/Kft			12			13			12			11			12
AVG sfc wind Kts	19	18	19	21	21	21	17	16	16	15	15	15	22	22	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 70 37 N 162 24 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 21965 70 37 N 162 24 E
Radiosonde station height: 125 Feet
Surface obs source: MS200 55 00 N 165 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	4	2	3	2	1	2	4	1	3	8	4	6	3	1	2
3 GHz	5	2	4	2	2	2	5	2	3	9	4	7	4	1	3
6 GHz	7	4	6	4	4	4	7	4	5	12	6	9	7	3	5
10 GHz	18	13	15	12	9	10	13	7	10	21	13	17	25	21	23
20 GHz	35	31	33	31	28	29	25	19	22	33	28	31	52	50	51

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	1	1	1	1	1	2	1	2	1	0	1
AVG thickness Kft			.21			.20			.11			.24			.30
AVG trap freq GHz			2.3			3.6			4.3			.83			.60
AVG lyr grd -N/Kft			151			170			219			136			78

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	1	1	1	2	2	2	0	1	1
AVG top ht Kft			2.8			.95			3.1			4.6			2.7
AVG thickness Kft			.28			.28			.36			.31			.18
AVG trap freq GHz			1.0			.51			.34			1.5			1.7
AVG lyr grd -N/Kft			81			71			120			67			64
AVG lyr base Kft			2.7			.77			3.0			4.4			2.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	33	33	33	27	27	27	42	42	42	46	45	45	19	17	18
10 to 20 Feet	32	37	34	42	45	44	33	40	36	23	27	25	31	33	32
20 to 30 Feet	18	19	18	19	19	19	12	11	12	13	15	14	28	29	29
30 to 40 Feet	8	7	7	6	5	6	5	3	4	7	5	6	14	14	14
40 to 50 Feet	2	2	2	2	1	1	1	1	1	2	2	2	3	4	4
50 to 60 Feet	1	1	1	0	1	1	1	1	1	2	1	1	2	1	1
60 to 70 Feet	1	1	1	0	0	0	1	0	1	1	1	1	0	1	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
above 100 Feet	4	2	3	2	1	1	4	1	2	7	3	5	2	1	2
Mean height Feet	22	18	20	19	18	18	19	15	17	24	19	22	24	22	23

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			320			328			316			316			318
AVG station -N/Kft			13			16			13			12			13
AVG sfc wind Kts	19	19	19	22	21	21	16	16	16	15	15	15	22	22	22

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 76 09 N 152 49 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 21358 76 09 N 152 49 E
Radiosonde station height: 46 Feet
Surface obs source: MS201 55 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	6	3	5	3	2	3	6	2	4	8	3	6	8	4	6
3 GHz	8	4	6	4	2	3	7	3	5	10	4	7	10	4	7
6 GHz	11	5	8	6	4	5	12	6	9	14	6	10	13	5	9
10 GHz	18	10	14	10	5	7	18	9	13	20	11	16	23	13	18
20 GHz	27	18	22	18	11	15	23	13	18	29	19	24	39	28	34

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	1	1	1	1	1	0	2	1	4	1	3	1	1	1
AVG thickness Kft			.15			.21			16			.14			.10
AVG trap freq GHz			3.3			1.8			3.5			3.2			4.8
AVG lyr grd -N/Kft			159			146			109			210			170

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	2	1	0	1	1	1	2	2	0	3	2	0	1	1
AVG top ht Kft			4.3			6.2			2.2			2.2			6.6
AVG thickness Kft			.24			.26			.38			.31			.10
AVG trap freq GHz			1.4			1.1			.65			.67			3.0
AVG lyr grd -N/Kft			69			91			55			68			63
AVG lyr base Kft			4.1			6.0			1.9			2.0			6.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	49	56	52	52	60	56	55	65	60	52	56	54	34	42	38
10 to 20 Feet	25	28	26	30	30	30	22	24	23	21	26	23	27	31	29
20 to 30 Feet	10	8	9	8	6	7	5	3	4	9	8	8	17	15	16
30 to 40 Feet	4	3	3	3	1	2	3	1	2	4	3	3	7	6	7
40 to 50 Feet	2	1	2	1	0	0	3	1	2	3	2	2	3	2	2
50 to 60 Feet	1	1	1	1	0	0	2	1	2	1	1	1	2	0	1
60 to 70 Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
70 to 80 Feet	1	0	1	1	0	0	1	1	1	1	1	1	1	0	0
80 to 90 Feet	1	0	0	0	0	0	1	0	1	1	0	1	1	0	1
90 to 100 Feet	1	0	0	0	0	0	1	1	1	1	0	1	1	0	1
above 100 Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Mean height Feet	23	15	19	16	12	14	21	13	17	24	17	20	29	19	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&S2 dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			320			328			316			316			321
AVG station -N/Kft			13			15			12			12			13
AVG sfc wind Kts	12	12	12	12	12	12	11	11	11	10	9.4	10	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 73 10 N 143 55 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 21647 73 10 N 143 55 E
Radiosonde station height: 75 Feet
Surface obs source: MS201 55 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	6	3	4	3	2	2	6	2	4	8	4	6	8	3	6
3 GHz	8	3	5	4	2	3	8	3	5	10	4	7	10	4	7
6 GHz	11	5	8	6	3	5	13	5	9	13	6	10	13	5	9
10 GHz	17	9	13	10	4	7	18	8	13	19	11	15	23	13	18
20 GHz	27	17	22	18	10	14	23	11	17	28	19	24	39	27	33

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	1	1	0	1	1	0	1	2	1	2	1	0	1
AVG thickness Kft			.20			.27			.31			.10			.12
AVG trap freq GHz			2.7			1.7			1.5			1.8			5.7
AVG lyr grd -N/Kft			334			322			378			302			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	0	0	0	1	2	2	1	0	1
AVG top ht Kft			3.3			.77			7.4			2.5			2.4
AVG thickness Kft			.25			.15			.31			.40			.12
AVG trap freq GHz			1.7			.84			.35			1.0			4.5
AVG lyr grd -N/Kft			85			127			87			68			58
AVG lyr base Kft			3.1			.72			7.3			2.2			2.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	49	56	52	52	60	56	55	55	60	52	56	54	34	42	38
10 to 20 Feet	25	28	26	30	30	30	22	24	23	21	26	23	27	31	29
20 to 30 Feet	10	8	9	8	6	7	5	3	4	9	8	8	17	13	16
30 to 40 Feet	4	3	3	3	1	2	3	1	2	4	3	3	7	6	7
40 to 50 Feet	2	1	2	1	0	0	3	1	2	3	2	2	3	2	2
50 to 60 Feet	1	1	1	1	0	0	2	1	2	1	1	1	2	0	1
60 to 70 Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
70 to 80 Feet	1	0	1	1	0	0	1	1	1	1	1	1	1	0	0
80 to 90 Feet	1	0	0	0	0	0	1	0	1	1	0	1	1	0	1
90 to 100 Feet	1	0	0	0	0	0	1	1	1	1	0	1	1	0	1
above 100 Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Mean height Feet	23	15	19	16	12	14	21	13	17	24	17	20	29	19	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			321			331			316			317			319
AVG station -N/Kft			13			16			12			12			13
AVG sfc wind Kts	12	12	12	12	12	12	11	11	11	10	9.4	10	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 76 00 N 137 54 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 21432 76 00 N 137 54 E
Radiosonde station height: 33 Feet
Surface obs source: MS201 55 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	6	3	4	3	2	3	6	2	4	8	3	5	7	3	5
3 GHz	8	3	5	4	2	3	8	3	6	9	4	7	9	4	7
6 GHz	11	5	8	6	4	5	13	6	9	13	6	9	12	5	8
10 GHz	17	9	13	9	5	7	18	9	14	19	10	15	22	13	17
20 GHz	27	17	22	18	11	14	23	12	18	27	18	23	39	27	33

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	1	1	1	1	1	1	3	1	0	0	0
AVG thickness Kft			.20			.10			.16			.41			.11
AVG trap freq GHz			1.8			2.9			1.2			.29			2.8
AVG lyr grd -N/Kft			119			84			149			86			155

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	0	1	0	1	0	0	0	1	1	1	0	0	0
AVG top ht Kft			3.2			6.2			.62			2.9			*
AVG thickness Kft			.21			.12			.21			.29			*
AVG trap freq GHz			1.5			2.4			1.1			1.0			*
AVG lyr grd -N/Kft			74			81			60			80			*
AVG lyr base Kft			3.1			6.1			.46			2.8			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	49	56	52	52	60	56	55	65	60	52	56	54	34	42	38
10 to 20 Feet	25	28	26	30	30	30	22	24	23	21	26	23	27	31	29
20 to 30 Feet	10	8	9	8	6	7	5	3	4	9	8	8	17	15	16
30 to 40 Feet	4	3	3	3	1	2	3	1	2	4	3	3	7	6	7
40 to 50 Feet	2	1	2	1	0	0	3	1	2	3	2	2	3	2	2
50 to 60 Feet	1	1	1	1	0	0	2	1	2	1	1	1	2	0	1
60 to 70 Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
70 to 80 Feet	1	0	1	1	0	0	1	1	1	1	1	1	1	0	0
80 to 90 Feet	1	0	0	0	0	0	1	0	1	1	0	1	1	0	1
90 to 100 Feet	1	0	0	0	0	0	1	1	1	1	0	1	1	0	1
above 100 Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Mean height Feet	23	15	19	16	12	14	21	13	17	24	17	20	29	19	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			321			330			316			316			320
AVG station -N/Kft			13			15			12			12			13
AVG sfc wind Kts	12	12	12	12	12	12	11	11	11	10	9.4	10	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 71 34 N 128 55 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 21824 71 34 N 128 55 E
Radiosonde station height: 26 Feet
Surface obs source: MS201 55 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	6	3	5	3	4	3	6	3	4	8	4	6	7	4	6
3 GHz	8	5	6	4	4	4	7	5	6	10	5	7	9	4	7
6 GHz	11	6	9	7	6	6	12	8	10	13	7	10	12	5	9
10 GHz	17	11	14	10	8	9	18	10	14	19	12	15	22	13	18
20 GHz	27	19	23	18	14	16	23	14	18	28	20	24	39	28	33

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	3	2	2	5	4	0	3	2	2	2	2	0	1	1
AVG thickness Kft			.19			.23			.20			.16			.17
AVG trap freq GHz			2.5			2.8			1.3			2.9			3.2
AVG lyr grd -N/Kft			201			259			78			175			292

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1
AVG top ht Kft			2.4			1.5			2.6			3.5			1.9
AVG thickness Kft			.22			.15			.17			.43			.12
AVG trap freq GHz			2.5			3.9			2.7			.49			3.0
AVG lyr grd -N/Kft			59			57			55			63			62
AVG lyr base Kft			2.2			1.4			2.5			3.2			1.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	49	56	52	52	60	56	55	65	60	52	56	54	34	42	38
10 to 20 Feet	25	28	26	30	30	30	22	24	23	21	26	23	27	31	29
20 to 30 Feet	10	8	9	8	6	7	5	3	4	9	8	8	17	15	16
30 to 40 Feet	4	3	3	3	1	2	3	1	2	4	3	3	7	6	7
40 to 50 Feet	2	1	2	1	0	0	3	1	2	3	2	2	3	2	2
50 to 60 Feet	1	1	1	1	0	0	2	1	2	1	1	1	2	0	1
60 to 70 Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
70 to 80 Feet	1	0	1	1	0	0	1	1	1	1	1	1	1	0	0
80 to 90 Feet	1	0	0	0	0	0	1	0	1	1	0	1	1	0	1
90 to 100 Feet	1	0	0	0	0	0	1	1	1	1	0	1	1	0	1
above 100 Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Mean height Feet	23	15	19	16	12	14	21	13	17	24	17	20	29	19	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			321			328			315			318			321
AVG station -N/Kft			13			15			12			12			13
AVG sfc wind Kts	12	12	12	12	12	12	11	11	11	10	9.4	10	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 74 40 N 112 55 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 21504 74 40 N 112 55 E
Radiosonde station height: 115 Feet
Surface obs source: MS201 55 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	*	*	*
1 GHz	5	3	4	3	2	2	6	2	4	8	3	6	*	*	*
3 GHz	7	3	5	3	2	3	7	3	5	10	4	7	*	*	*
6 GHz	10	5	8	6	4	5	12	6	9	13	6	10	*	*	*
10 GHz	15	8	12	9	5	7	18	9	13	19	11	15	*	*	*
20 GHz	23	14	18	17	11	14	23	12	17	28	19	24	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	1	1	0	1	1	2	1	2	0	0	0
AVG thickness Kft			.19			.16			.24			.17			*
AVG trap freq GHz			2.2			2.4			1.8			2.4			*
AVG lyr grd -N/Kft			434			396			527			378			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	1	0	0	0	0	0	0	0	0	2	1	0	0	0
AVG top ht Kft			5.6			*			10			1.5			*
AVG thickness Kft			.30			*			.34			.26			*
AVG trap freq GHz			1.5			*			.34			2.6			*
AVG lyr grd -N/Kft			69			*			74			65			*
AVG lyr base Kft			5.4			*			10			1.3			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	49	56	52	52	60	56	55	65	60	52	56	54	34	42	38
10 to 20 Feet	25	28	26	30	30	30	22	24	23	21	26	23	27	31	29
20 to 30 Feet	10	8	9	8	6	7	5	3	4	9	8	8	17	15	16
30 to 40 Feet	4	3	3	3	1	2	3	1	2	4	3	3	7	6	7
40 to 50 Feet	2	1	2	1	0	0	3	1	2	3	2	2	3	2	2
50 to 60 Feet	1	1	1	1	0	0	2	1	2	1	1	1	2	0	1
60 to 70 Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
70 to 80 Feet	1	0	1	1	0	0	1	1	1	1	1	1	1	0	0
80 to 90 Feet	1	0	0	0	0	0	1	0	1	1	0	1	1	0	1
90 to 100 Feet	1	0	0	0	0	0	1	1	1	1	0	1	1	0	1
above 100 Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Mean height Feet	23	15	19	16	12	14	21	13	17	24	17	20	29	19	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			318			326			313			314			317
AVG station -N/Kft			13			15			12			12			13
AVG sfc wind Kts	12	12	12	12	12	12	11	11	11	10	9.4	10	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 77 43 N 104 16 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 20292 77 43 N 104 16 E
Radiosonde station height: 43 Feet
Surface obs source: MS201 55 00 N 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0		0	0	0	0	*	*	*
1 GHz	7	3	5	*	*	*	6			7	3	5	*	*	*
3 GHz	8	3	6	*	*	*	7	3		9	4	6	*	*	*
6 GHz	12	6	9	*	*	*	12	6	9	13	6	9	*	*	*
10 GHz	18	9	14	*	*	*	18	9	13	19	10	15	*	*	*
20 GHz	25	15	20	*	*	*	23	12	17	27	18	23	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0
AVG thickness Kft			.22			*			.12			.31			*
AVG trap freq GHz			2.9			*			4.5			1.2			*
AVG lyr grd -N/Kft			100			*			144			55			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	1	0	0	0	0	0	0	0	0	1	1	0	1	1
AVG top ht Kft			8.9			24			4.3			3.1			4.6
AVG thickness Kft			.15			.14			.24			.14			.08
AVG trap freq GHz			3.8			1.1			5.0			4.8			4.1
AVG lyr grd -N/Kft			71			93			67			56			68
AVG lyr base Kft			8.8			23			4.1			3.0			4.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCUPRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	49	56	52	52	60	56	55	65	60	52	56	54	34	42	38
10 to 20 Feet	25	28	26	30	30	30	22	24	23	21	26	23	27	31	29
20 to 30 Feet	10	8	9	8	6	7	5	3	4	9	8	8	17	15	16
30 to 40 Feet	4	3	3	3	1	2	3	1	2	4	3	3	7	6	7
40 to 50 Feet	2	1	2	1	0	0	3	1	2	3	2	2	3	2	2
50 to 60 Feet	1	1	1	1	0	0	2	1	2	1	1	1	2	0	1
60 to 70 Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
70 to 80 Feet	1	0	1	1	0	0	1	1	1	1	1	1	1	0	0
80 to 90 Feet	1	0	0	0	0	0	1	0	1	1	0	1	1	0	1
90 to 100 Feet	1	0	0	0	0	0	1	1	1	1	0	1	1	0	1
above 100 Feet	6	3	4	3	2	2	6	2	4	7	3	5	7	3	5
Mean height Feet	23	15	19	16	12	14	21	13	17	24	17	20	29	19	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			319			325			314			316			319
AVG station -N/Kft			13			14			12			12			13
AVG sfc wind Kts	12	12	12	12	12	12	11	11	11	10	9.4	10	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 73 30 N 80 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 20674 73 30 N 80 13 E
Radiosonde station height: 66 Feet
Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0	0	0	0	0	0	*	*	*
1 GHz	5	3	4	*	*	*	4	4	4	5	3	4	*	*	*
3 GHz	6	4	5	*	*	*	6	5	5	6	3	4	*	*	*
6 GHz	9	7	8	*	*	*	8	7	8	10	6	8	*	*	*
10 GHz	30	28	29	*	*	*	25	22	23	34	34	34	*	*	*
20 GHz	55	54	54	*	*	*	53	48	50	58	60	59	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	1	0	0	0	1	0	1	2	1	2	0	0	0
AVG thickness Kft			.20			*			.16			.25			*
AVG trap freq GHz			1.5			*			2.0			1.0			*
AVG lyr grd -N/Kft			166			*			190			142			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
AVG top ht Kft			3.4			*			*			3.4			*
AVG thickness Kft			.19			*			*			.19			*
AVG trap freq GHz			1.9			*			*			1.9			*
AVG lyr grd -N/Kft			54			*			*			54			*
AVG lyr base Kft			3.3			*			*			3.3			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to 20 Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	20
20 to 30 Feet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30
30 to 40 Feet	18	20	19	19	21	20	14	13	13	17	20	19	22	25	24
40 to 50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to 60 Feet	2	1	2	1	0	1	1	1	1	3	2	3	4	2	3
60 to 70 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
above 100 Feet	3	2	2	1	0	0	4	4	4	4	2	3	2	0	1
Mean height Feet	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			316			321			313			316			315
AVG station -N/Kft			13			14			12			12			12
AVG sfc wind Kts	18	17	18	20	20	20	15	14	14	15	15	15	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 77 30 N 82 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 20274 77 30 N 82 13 E
Radiosonde station height: 72 Feet
Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	2	3	1	0	1	4	4	4	5	3	4	3	0	2
3 GHz	4	2	3	1	0	1	6	5	5	7	3	5	3	0	2
6 GHz	8	4	6	3	0	2	9	7	8	11	6	9	9	2	6
10 GHz	31	29	30	24	24	24	25	22	23	35	33	34	41	35	38
20 GHz	60	60	60	60	63	62	53	48	50	58	60	59	67	68	68

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	0	1	1	0	1	1	0	1	4	1	3	2	0	1
AVG thickness Kft			.15			.16			.13			.14			.16
AVG trap freq GHz			1.5			1.2			1.1			2.4			1.3
AVG lyr grd -N/Kft			200			109			185			374			133

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
AVG top ht Kft			6.7			*			*			6.7			*
AVG thickness Kft			.10			*			*			.10			*
AVG trap freq GHz			5.8			*			*			5.8			*
AVG lyr grd -N/Kft			48			*			*			48			*
AVG lyr base Kft			6.6			*			*			6.6			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to 20 Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	20
20 to 30 Feet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30
30 to 40 Feet	18	20	19	18	21	20	14	13	13	17	20	19	22	25	24
40 to 50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to 60 Feet	2	1	2	1	0	1	1	1	1	3	2	3	4	2	3
60 to 70 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
above 100 Feet	3	2	2	1	0	0	4	4	4	4	2	3	2	0	1
Mean height Feet	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			317			320			314			315			317
AVG station -N/Kft			12			13			12			12			13
AVG sfc wind Kts	18	17	18	20	20	20	15	14	14	15	15	15	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 73 19 N 70 01 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 20667 73 19 N 70 01 E
Radiosonde station height: 20 Feet
Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	*	*	*	0	0	0	0	0	0
1 GHz	3	2	2	1	1	1	*	*	*	5	4	4	2	1	1
3 GHz	3	2	3	1	1	1	*	*	*	5	5	5	3	1	2
6 GHz	7	4	5	2	1	2	*	*	*	10	8	9	8	3	6
10 GHz	33	32	32	24	25	24	*	*	*	34	35	34	40	35	38
20 GHz	61	64	63	60	64	62	*	*	*	57	61	59	67	68	68

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	1	1	0	0	0	1	3	2	1	1	1
AVG thickness Kft			.26			.29			*			.38			.18
AVG trap freq GHz			1.0			.79			*			.61			1.6
AVG lyr grd -N/Kft			125			161			*			124			91

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG top ht Kft			.60			*			*			*			.60
AVG thickness Kft			.11			*			*			*			.11
AVG trap freq GHz			3.8			*			*			*			3.8
AVG lyr grd -N/Kft			59			*			*			*			59
AVG lyr base Kft			51			*			*			*			.51

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to 20 Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	20
20 to 30 Feet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30
30 to 40 Feet	18	20	19	18	21	20	14	13	13	17	20	19	22	25	24
40 to 50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to 60 Feet	2	1	2	1	0	1	1	1	1	3	2	3	4	2	3
60 to 70 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
above 100 Feet	3	2	2	1	0	0	4	4	4	4	2	3	2	0	1
Mean height Feet	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			317			319			314			318			316
AVG station -N/Kft			12			13			12			12			12
AVG sfc wind Kts	18	17	18	20	20	20	15	14	14	15	15	15	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 79 30 N 76 58 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 20069 79 30 N 76 58 E
Radiosonde station height: 59 Feet
Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCUPPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0	0	0	0	0	0	*	*	*
1 GHz	4	4	4	*	*	*	4	5	5	4	3	4	*	*	*
3 GHz	5	5	5	*	*	*	6	6	6	5	3	4	*	*	*
6 GHz	9	7	8	*	*	*	9	8	8	10	7	8	*	*	*
10 GHz	29	28	29	*	*	*	25	23	24	34	34	34	*	*	*
20 GHz	55	54	54	*	*	*	53	48	50	57	60	59	*	*	*

PEACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	1	1	1	1	2	2	0	0	
AVG thickness Kft			.21			*			.22			.21			*
AVG trap freq GHz			1.9			*			1.6			2.2			*
AVG lyr grd -N/Kft			102			*			82			121			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG top ht Kft			4.3			*			*			*			4.3
AVG thickness Kft			.43			*			*			*			.43
AVG trap freq GHz			.28			*			*			*			.28
AVG lyr grd -N/Kft			181			*			*			*			181
AVG lyr base Kft			4.2			*			*			*			4.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to 20 Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	20
20 to 30 Feet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30
30 to 40 Feet	18	20	19	18	21	20	14	13	13	17	20	19	22	25	24
40 to 50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to 60 Feet	2	1	2	1	0	1	1	1	1	3	2	3	4	2	3
60 to 70 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
above 100 Feet	3	2	2	1	0	0	4	4	4	4	2	3	2	0	1
Mean height Feet	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station H			318			321			315			316			320
AVG station -N/Kft			13			14			12			12			13
AVG sfc wind Kts	18	17	18	20	20	20	15	14	14	15	15	15	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 76 57 N 68 34 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 20353 76 57 N 68 34 E
Radiosonde station height: 26 Feet
Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	0	0	0	*	*	*	*	*	*
1 GHz	4	5	4	*	*	*	4	5	4	*	*	*	*	*	*
3 GHz	5	6	5	*	*	*	5	6	5	*	*	*	*	*	*
6 GHz	8	8	8	*	*	*	8	8	8	*	*	*	*	*	*
10 GHz	24	23	24	*	*	*	24	23	24	*	*	*	*	*	*
20 GHz	52	48	50	*	*	*	52	48	50	*	*	*	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
AVG thickness Kft			.16			*			.16			*			*
AVG trap freq GHz			.80			*			.80			*			*
AVG lyr grd -N/Kft			168			*			168			*			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
AVG top ht Kft			2.8			*			*			2.8			*
AVG thickness Kft			.27			*			*			.27			*
AVG trap freq GHz			2.9			*			*			2.9			*
AVG lyr grd -N/Kft			99			*			*			99			*
AVG lyr base Kft			2.6			*			*			2.6			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to 20 Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	20
20 to 30 Feet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30
30 to 40 Feet	18	20	19	18	21	20	14	13	13	17	20	19	22	25	24
40 to 50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to 60 Feet	2	1	2	1	0	1	1	1	1	3	2	3	4	2	3
60 to 70 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
above 100 Feet	3	2	2	1	0	0	4	4	4	4	2	3	2	0	1
Mean height Feet	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			315			316			314			316			314
AVG station -N/Kft			12			12			12			12			12
AVG sfc wind Kts	18	17	18	20	20	20	15	14	14	15	15	15	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 72 22 N 52 43 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 20744 72 22 N 52 43 E
Radiosonde station height: 52 Feet
Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	*	*	*	0	0	0	*	*	*
1 GHz	3	2	2	1	0	1	*	*	*	5	3	4	*	*	*
3 GHz	4	2	3	1	1	1	*	*	*	7	3	5	*	*	*
6 GHz	7	4	5	2	1	1	*	*	*	11	6	9	*	*	*
10 GHz	29	29	29	24	25	24	*	*	*	35	34	34	*	*	*
20 GHz	59	62	60	60	64	62	*	*	*	58	60	59	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	1	1	0	0	0	3	1	2	0	0	0
AVG thickness Kft			.18			.08			*			.28			*
AVG trap freq GHz			2.3			3.4			*			1.1			*
AVG lyr grd -N/Kft			261			170			*			353			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG top ht Kft			1.8			3.0			*			.52			*
AVG thickness Kft			.27			.33			*			.22			*
AVG trap freq GHz			.75			.39			*			1.1			*
AVG lyr grd -N/Kft			78			84			*			71			*
AVG lyr base Kft			1.6			2.8			*			.39			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to 20 Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	20
20 to 30 Feet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30
30 to 40 Feet	18	20	19	18	21	20	14	13	13	17	20	19	22	25	24
40 to 50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to 60 Feet	2	1	2	1	0	1	1	1	1	3	2	3	4	2	3
60 to 70 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
above 100 Feet	3	2	2	1	0	0	4	4	4	4	2	3	2	0	1
Mean height Feet	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			313			310			313			318			311
AVG station -N/Kft			12			12			12			12			12
AVG sfc wind Kts	18	17	18	20	20	20	15	14	14	15	15	15	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 78 04 N 14 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 20107 78 04 N 14 13 E
Radiosonde station height: 59 Feet
Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	*	*	*	*	*	*	0	0	0
1 GHz	2	0	1	*	*	*	*	*	*	*	*	*	2	0	1
3 GHz	3	1	2	*	*	*	*	*	*	*	*	*	3	1	2
6 GHz	8	3	6	*	*	*	*	*	*	*	*	*	8	3	6
10 GHz	40	35	38	*	*	*	*	*	*	*	*	*	40	35	38
20 GHz	67	68	67	*	*	*	*	*	*	*	*	*	67	68	67

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
AVG thickness Kft			.10			*			*			*			.10
AVG trap freq GHz			4.9			*			*			*			4.9
AVG lyr grd -N/Kft			143			*			*			*			143

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1
AVG top ht Kft			2.2			.29			4.2			*			2.2
AVG thickness Kft			.20			.18			.07			.44			.11
AVG trap freq GHz			2.8			1.8			7.4			.36			1.7
AVG lyr grd -N/Kft			61			54			48			*			82
AVG lyr base Kft			2.6			.13			4.1			4.1			2.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to 20 Feet	26	25	26	29	29	28	29	31	30	24	23	23	21	20	20
20 to 30 Feet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30
30 to 40 Feet	18	20	19	18	21	20	14	13	13	17	20	19	22	25	24
40 to 50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to 60 Feet	2	1	2	1	0	1	1	1	1	3	2	3	4	2	3
60 to 70 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
above 100 Feet	3	2	2	1	0	0	4	4	4	4	2	3	2	0	1
Mean height Feet	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			312			310			312			315			310
AVG station -N/Kft			11			11			11			11			11
AVG sfc wind Kts	18	17	18	20	20	20	15	14	14	15	15	15	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 74 31 N 19 01 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 1028 74 31 N 19 01 E
Radiosonde station height: 59 Feet
Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	*	*	*
1 GHz	3	2	3	1	0	1	4	4	4	4	3	3	*	*	*
3 GHz	4	3	3	1	0	1	5	5	5	5	3	4	*	*	*
6 GHz	7	5	6	3	0	2	8	7	8	9	6	8	*	*	*
10 GHz	28	26	27	24	24	24	25	22	23	34	33	34	*	*	*
20 GHz	57	57	57	60	63	62	52	48	50	57	60	58	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	1	1	0	1	1	0	1	1	1	1	0	0	0
AVG thickness Kft			.13			.15			.09			.15			*
AVG trap freq GHz			4.0			3.0			5.9			3.2			*
AVG lyr grd -N/Kft			109			113			99			114			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	1	2	2	1	3	2	0	0	0
AVG top ht Kft			3.2			3.5			2.6			3.2			3.5
AVG thickness Kft			.26			.15			.22			.26			.39
AVG trap freq GHz			1.1			1.6			1.3			1.3			.33
AVG lyr grd -N/Kft			61			56			60			52			74
AVG lyr base Kft			3.0			3.4			2.4			2.9			3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to 20 Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	20
20 to 30 Feet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30
30 to 40 Feet	18	26	19	18	21	20	14	13	13	17	20	19	22	25	24
40 to 50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to 60 Feet	2	1	2	1	0	1	1	1	1	3	2	3	4	2	3
60 to 70 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
above 100 Feet	3	2	2	1	0	0	4	4	4	4	2	3	2	0	1
Mean height Feet	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			314			311			314			319			311
AVG station -N/Kft			12			12			12			12			12
AVG sfc wind Kts	18	17	18	20	20	20	15	14	14	15	15	15	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 80 00 N 85 55 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 72917 80 00 N 85 55 W
Radiosonde station height: 30 Feet
Surface obs source: MS220 65 00 N 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	1	2	1	1	1	3	2	3	5	2	4	1	1	1
3 GHz	3	2	2	1	1	1	4	2	3	7	2	4	1	1	1
6 GHz	6	3	4	2	2	2	6	5	5	10	3	7	4	3	4
10 GHz	23	21	22	17	17	17	18	16	17	28	22	25	29	30	30
20 GHz	49	51	50	50	51	50	41	43	42	47	48	47	59	64	61

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	1	1	1	1	1	0	1	1	0	0	0	0	1	1
AVG thickness Kft			.14			.19			.12			.11			.13
AVG trap freq GHz			4.0			5.9			3.5			4.3			2.3
AVG lyr grd -N/Kft			208			235			325			189			84

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	2	2	2	1	2	1	2	2	1	0	1
AVG top ht Kft			2.8			1.4			4.6			4.4			.64
AVG thickness Kft			.15			.10			.15			.17			.18
AVG trap freq GHz			3.0			5.0			2.1			2.0			2.8
AVG lyr grd -N/Kft			58			48			56			81			48
AVG lyr base Kft			2.6			1.3			4.5			4.4			.46

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	24	22	23	20	20	20	29	27	28	29	25	27	17	16	17
10 to 20 Feet	27	27	27	30	30	30	31	30	31	24	27	26	24	28	22
20 to 30 Feet	26	30	28	33	34	33	23	28	25	19	26	22	30	33	32
30 to 40 Feet	14	15	14	13	14	13	9	9	9	13	16	15	28	22	21
40 to 50 Feet	4	3	3	3	1	2	3	2	2	5	3	4	5	6	5
50 to 60 Feet	1	1	1	0	0	0	1	1	1	2	1	1	2	2	2
60 to 70 Feet	1	0	0	0	0	0	1	1	1	1	0	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
above 100 Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	1
Mean height Feet	23	21	22	21	20	20	22	20	21	27	22	24	24	24	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			319			328			314			310			323
AVG station -N/Kft			13			15			12			11			14
AVG sfc wind Kts	18	18	18	21	22	22	16	16	16	13	15	14	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 S 5 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 61902 7 58 S 14 24 W
Radiosonde station height: 282 Feet
Surface obs source: MS300 5 00 S 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
1 GHz	40	12	26	37	12	24	52	17	34	41	11	26	30	7	18
3 GHz	49	18	34	44	18	31	66	29	47	51	16	33	36	10	23
6 GHz	76	55	65	73	57	65	89	74	81	76	45	61	65	44	54
10 GHz	93	88	90	93	90	91	96	93	95	91	80	86	90	87	89
20 GHz	96	95	96	97	96	96	97	97	97	95	92	94	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	3	3	6	4	5	4	3	4	2	4	3	3	1	2
AVG thickness Kft			.16			.14			.18			.21			.11
AVG trap freq GHz			2.7			3.0			1.8			.86			5.1
AVG lyr grd -N/Kft			219			200			102			97			475

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	50	45	48	43	43	43	43	42	43	59	50	55	56	46	51
AVG top ht Kft			5.5			5.2			5.8			5.7			5.1
AVG thickness Kft			.64			.59			.55			.73			.68
AVG trap freq GHz			.18			.19			.23			.13			.16
AVG lyr grd -N/Kft			66			66			64			67			66
AVG lyr base Kft			5.0			4.8			5.5			5.2			4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	2	1	1	2	1	2	2	3	3	2	1	2
10 to 20 Feet	2	3	2	2	3	2	1	2	1	2	5	4	2	3	3
20 to 30 Feet	4	8	6	4	6	5	2	4	3	4	12	8	5	9	7
30 to 40 Feet	7	14	10	7	13	10	3	7	5	7	18	12	11	18	15
40 to 50 Feet	11	19	15	13	21	17	4	13	9	9	18	14	15	25	20
50 to 60 Feet	11	18	14	14	19	16	6	17	12	9	15	12	14	19	17
60 to 70 Feet	9	12	10	9	12	11	8	16	12	8	9	9	10	10	10
70 to 80 Feet	7	7	7	7	7	7	9	12	10	7	6	6	6	5	5
80 to 90 Feet	5	4	5	4	4	4	8	8	8	6	2	4	4	2	3
90 to 100 Feet	4	2	3	3	2	3	6	4	5	4	1	3	2	1	2
above 100 Feet	39	11	25	36	10	23	51	16	33	41	9	25	29	6	18
Mean height Feet	102	61	82	98	63	80	118	74	96	104	55	80	87	54	70

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			2			2			1			1
% occur 2+ EL dcts			9			8			9			9			9
AVG station N			356			363			360			347			353
AVG station -N/Kft			15			16			16			14			14
AVG sfc wind Kts	12	11	11	10	10	10	13	12	13	12	11	11	11	11	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 7 58 S 14 24 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 61902 7 58 S 14 24 W
Radiosonde station height: 282 Feet
Surface obs source: MS301 5 00 S 15 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
1 GHz	47	9	28	48	10	29	57	12	34	46	9	27	39	5	22
3 GHz	57	15	36	58	16	37	68	21	44	56	15	35	49	10	29
6 GHz	82	59	71	82	61	71	88	69	78	80	55	67	78	53	65
10 GHz	92	90	91	92	91	92	95	92	94	91	87	89	91	91	91
20 GHz	95	97	96	94	97	96	97	97	97	94	96	95	95	98	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	3	3	6	4	5	4	3	4	2	4	3	3	1	2
AVG thickness Kft			.16			.14			.18			.21			.11
AVG trap freq GHz			2.7			3.0			1.8			.86			5.1
AVG lyr grd -N/Kft			219			200			102			97			475

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	50	45	48	43	43	43	43	42	43	59	50	55	56	46	51
AVG top ht Kft			5.5			5.2			5.8			5.7			5.1
AVG thickness Kft			.64			.59			.55			.73			.68
AVG trap freq GHz			.18			.19			.23			.13			.16
AVG lyr grd -N/Kft			66			66			64			67			66
AVG lyr base Kft			5.0			4.8			5.5			5.2			4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	4	1	3	4	1	3	2	1	2	5	2	3	4	1	3
10 to 20 Feet	1	2	2	2	3	2	1	2	2	1	2	2	2	1	1
20 to 30 Feet	3	7	5	2	6	4	1	6	3	3	9	6	4	7	5
30 to 40 Feet	4	12	8	4	9	7	3	7	5	4	15	9	6	16	11
40 to 50 Feet	7	19	13	7	21	14	5	16	11	7	18	13	7	22	15
50 to 60 Feet	9	21	15	10	24	17	7	19	13	9	18	14	10	21	15
60 to 70 Feet	9	15	12	8	14	11	7	16	12	9	14	11	10	14	12
70 to 80 Feet	7	9	8	6	7	7	7	14	10	7	8	8	9	8	8
80 to 90 Feet	6	4	5	5	3	4	6	6	6	5	3	4	6	4	5
90 to 100 Feet	4	2	3	4	2	3	4	3	4	5	2	3	4	2	3
above 100 Feet	47	8	27	47	9	28	56	11	33	45	7	26	38	4	21
Mean height Feet	112	60	86	114	61	88	124	66	95	109	57	83	101	56	78

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			2			2			1			1
% occur 2+ EL dcts			9			8			9			9			9
AVG station N			356			363			360			347			353
AVG station -N/Kft			15			16			16			14			14
AVG sfc wind Kts	13	12	13	12	12	12	13	13	13	13	12	13	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 3 51 S 32 25 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 82400 3 51 S 32 25 W
Radiosonde station height: 148 Feet
Surface obs source: MS303 5 00 S 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	*	*	*	*	*	*	1	1	1	*	*	*
1 GHz	40	12	26	*	*	*	*	*	*	40	12	26	*	*	*
3 GHz	54	22	38	*	*	*	*	*	*	54	22	38	*	*	*
6 GHz	83	69	76	*	*	*	*	*	*	83	69	76	*	*	*
10 GHz	94	92	93	*	*	*	*	*	*	94	92	93	*	*	*
20 GHz	96	97	96	*	*	*	*	*	*	96	97	96	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	5	4	*	*	*	*	*	*	6	10	8	0	0	0
AVG thickness Kft			.39			*			*			.39			*
AVG trap freq GHz			1.1			*			*			1.1			*
AVG lyr grd -N/Kft			78			*			*			78			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	34	16	25	*	*	*	*	*	*	30	32	31	38	0	19
AVG top ht Kft			5.5			*			*			5.8			5.3
AVG thickness Kft			.44			*			*			.58			.30
AVG trap freq GHz			.65			*			*			.32			1.0
AVG lyr grd -N/Kft			56			*			*			60			52
AVG lyr base Kft			5.2			*			*			5.4			5.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	3	1	2	2	1	1	2	1	2	3	2	2
10 to 20 Feet	2	3	2	2	3	3	2	3	2	1	2	2	1	2	1
20 to 30 Feet	3	5	4	4	7	6	4	6	5	2	5	4	2	4	3
30 to 40 Feet	5	10	7	5	11	8	6	11	9	4	9	6	3	8	6
40 to 50 Feet	8	19	13	9	21	15	11	19	15	7	17	12	6	18	12
50 to 60 Feet	10	21	16	10	21	16	11	22	16	10	21	15	9	21	15
60 to 70 Feet	10	16	13	10	13	12	9	15	12	10	17	14	10	18	14
70 to 80 Feet	9	10	9	8	7	7	8	9	8	10	12	11	10	11	11
80 to 90 Feet	7	4	6	6	4	5	6	4	5	8	5	7	7	5	6
90 to 100 Feet	5	3	4	4	2	3	5	3	4	6	3	5	6	2	4
above 100 Feet	39	8	24	39	9	24	36	8	22	39	8	23	43	8	25
Mean height Feet	102	62	82	102	61	82	98	60	79	108	62	81	107	63	85

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			0			3			0
% occur 2+ EL dcts			1			0			2			2			0
AVG station N			372			*			*			372			371
AVG station -N/Kft			18			*			*			18			17
AVG sfc wind Kts	13	12	12	11	10	11	12	11	11	15	14	14	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 3 43 S 38 33 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 82397 3 43 S 38 33 W
Radiosonde station height: 62 Feet
Surface obs source: MS303 5 00 S 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	*	*	*	*	*	*	0	0	0	1	0	0
1 GHz	42	8	25	*	*	*	*	*	*	39	8	24	45	8	26
3 GHz	55	16	36	*	*	*	*	*	*	53	17	35	58	15	36
6 GHz	84	66	75	*	*	*	*	*	*	83	66	75	85	66	76
10 GHz	94	92	93	*	*	*	*	*	*	93	92	93	94	93	93
20 GHz	96	97	96	*	*	*	*	*	*	96	97	96	96	97	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	1	2	*	*	*	*	*	*	1	2	2	6	0	3
AVG thickness Kft			.27			*			*			.28			.26
AVG trap freq GHz			.86			*			*			1.1			.62
AVG lyr grd -N/Kft			98			*			*			103			94

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	17	16	16	*	*	*	*	*	*	25	31	28	9	0	5
AVG top ht Kft			5.2			*			*			5.3			5.2
AVG thickness Kft			.54			*			*			.44			.64
AVG trap freq GHz			.35			*			*			.56			.14
AVG lyr grd -N/Kft			69			*			*			56			82
AVG lyr base Kft			4.9			*			*			4.9			4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	3	1	2	2	1	1	2	1	2	3	2	2
10 to 20 Feet	2	3	2	2	3	3	2	3	2	1	2	2	1	2	1
20 to 30 Feet	3	6	4	4	7	6	4	6	5	2	5	4	2	4	3
30 to 40 Feet	5	10	7	5	11	8	6	11	9	4	9	6	3	8	6
40 to 50 Feet	8	19	13	9	21	15	11	19	15	7	17	12	6	18	12
50 to 60 Feet	10	21	16	10	21	16	11	22	16	10	21	15	9	21	15
60 to 70 Feet	10	16	13	10	13	12	9	15	12	10	17	14	10	18	14
70 to 80 Feet	9	10	9	8	7	7	8	9	8	10	12	11	10	11	11
80 to 90 Feet	7	4	6	6	4	5	6	4	5	8	5	7	7	5	6
90 to 100 Feet	5	3	4	4	2	3	5	3	4	6	3	5	6	2	4
above 100 Feet	39	8	24	39	9	24	36	8	22	39	8	23	43	8	25
Mean height Feet	102	62	82	102	61	82	98	60	79	100	62	81	107	63	85

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			2			0			0			3			7
AVG station N			372			*			*			370			373
AVG station -N/Kft			16			*			*			17			15
AVG sfc wind Kts	13	12	12	11	10	11	12	11	11	15	14	14	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 55 S 35 15 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 82599 5 55 S 35 15 W
Radiosonde station height: 161 Feet
Surface obs source: MS303 5 00 S 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	0	2	3	0	2	2	0	1	3	0	2	4	0	2
1 GHz	47	8	28	47	9	28	42	8	25	46	8	27	53	8	31
3 GHz	60	15	38	60	15	37	55	15	35	60	16	38	67	15	41
6 GHz	84	62	73	83	56	69	80	60	70	86	66	76	89	66	78
10 GHz	94	91	93	94	88	91	94	90	92	95	92	93	96	93	94
20 GHz	97	96	97	97	95	96	97	96	96	97	97	97	97	97	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	28	0	14	35	0	18	20	0	10	21	0	11	37	0	19
AVG thickness Kft			.24			.17			.24			.33			.24
AVG trap freq GHz			1.2			1.8			1.1			.67			1.1
AVG lyr grd -N/Kft			86			99			76			98			73

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	31	2	16	21	0	11	29	0	15	35	6	21	37	0	19
AVG top ht Kft			5.9			6.6			6.1			5.5			5.6
AVG thickness Kft			.43			.47			.37			.46			.44
AVG trap freq GHz			.60			.46			1.1			.46			.37
AVG lyr grd -N/Kft			58			61			54			60			57
AVG lyr base Kft			5.6			6.2			5.8			5.1			5.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	3	1	2	2	1	1	2	1	2	3	2	2
10 to 20 Feet	2	3	2	2	3	3	2	3	2	1	2	2	1	2	1
20 to 30 Feet	3	6	4	4	7	6	4	6	5	2	5	4	2	4	3
30 to 40 Feet	5	10	7	5	11	8	6	11	9	4	9	6	3	8	6
40 to 50 Feet	8	19	13	9	21	15	11	19	15	7	17	12	6	18	12
50 to 60 Feet	10	21	16	10	21	16	11	22	16	10	21	15	9	21	15
60 to 70 Feet	10	16	13	10	13	12	9	15	12	10	17	14	10	18	14
70 to 80 Feet	9	10	9	8	7	7	8	9	8	10	12	11	10	11	11
80 to 90 Feet	7	4	6	6	4	5	6	4	5	8	5	7	7	5	6
90 to 100 Feet	5	3	4	4	2	3	5	3	4	6	3	5	6	2	4
above 100 Feet	39	8	24	39	9	24	36	8	22	39	8	23	43	8	25
Mean height Feet	102	62	82	102	61	82	98	60	79	100	62	81	107	63	85

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			7			8			7			6			9
% occur 2+ EL dcts			5			0			5			4			12
AVG station N			375			377			381			372			368
AVG station -N/Kft			19			21			19			19			19
AVG sfc wind Kts	13	12	12	11	10	11	12	11	11	15	14	14	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 8 04 S 34 55 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 82900 8 04 S 34 55 W
Radiosonde station height: 62 Feet
Surface obs source: MS303 5 00 S 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	1	0	1	1	0	0	0	0	0	*	*	*
1 GHz	40	9	24	42	9	25	38	8	23	39	9	24	*	*	*
3 GHz	31	16	34	52	15	33	49	15	32	53	19	36	*	*	*
6 GHz	79	61	70	79	56	67	76	60	68	83	67	75	*	*	*
10 GHz	93	90	91	92	88	90	93	90	91	93	92	93	*	*	*
20 GHz	96	96	96	96	95	96	96	96	96	96	97	96	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	1	2	6	0	3	3	0	2	2	5	4	0	0	0
AVG thickness Kft			.32			.25			.42			.29			*
AVG trap freq GHz			.82			.39			.32			1.8			*
AVG lyr grd -N/Kft			328			537			146			302			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	5	9	7	0	4	5	0	3	25	18	22	19	0	10
AVG top ht Kft			6.1			4.8			6.4			7.4			5.6
AVG thickness Kft			.41			.53			.29			.37			.45
AVG trap freq GHz			1.2			1.0			1.1			.92			1.9
AVG lyr grd -N/Kft			58			52			57			56			64
AVG lyr base Kft			5.7			4.3			6.2			7.2			5.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
6 to 10 Feet	2	1	2	3	1	2	2	1	1	2	1	2	3	2	2
10 to 20 Feet	2	3	2	2	3	3	2	3	2	1	2	2	1	2	1
20 to 30 Feet	3	6	4	4	7	6	4	6	5	2	5	4	2	4	3
30 to 40 Feet	5	10	7	5	11	8	6	11	9	4	9	6	3	8	6
40 to 50 Feet	8	19	13	9	21	15	11	19	15	7	17	12	6	18	12
50 to 60 Feet	10	21	16	10	21	16	11	22	16	10	21	15	9	21	15
60 to 70 Feet	10	16	13	10	13	12	9	15	12	10	17	14	10	18	14
70 to 80 Feet	9	10	9	8	7	7	8	9	8	10	12	11	10	11	11
80 to 90 Feet	7	4	6	6	4	5	6	4	5	8	5	7	7	5	6
90 to 100 Feet	5	3	4	4	2	3	5	3	4	6	3	5	6	2	4
above 100 Feet	39	8	24	39	9	24	36	8	22	39	8	23	43	8	25
Mean height Feet	102	62	82	102	61	82	98	60	79	100	62	81	107	63	85

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			1			3			0			2			0
AVG station N			376			380			382			372			370
AVG station -N/Kft			17			16			18			17			16
AVG sfc wind Kts	13	12	12	11	10	11	12	11	11	15	14	14	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 1 22 S 48 28 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 82193 1 22 S 48 28 W
Radiosonde station height: 52 Feet
Surface obs source: MSS 5 00 N 45 00 W

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	2	0	1	0	0	0	2	0	1	2	0	1
1 GHz	37	7	22	31	5	18	31	6	19	44	8	26	43	8	26
3 GHz	50	14	32	48	15	32	44	13	28	53	14	33	54	15	34
6 GHz	80	63	71	82	68	75	78	63	71	78	57	67	82	62	72
10 GHz	94	91	92	94	94	94	94	93	94	91	87	89	95	91	93
20 GHz	97	96	96	97	98	97	97	97	97	95	94	94	97	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	0	5	11	0	6	4	0	2	10	0	5	12	0	6
AVG thickness Kft			.34			.27			.28			.44			.37
AVG trap freq GHz			.90			.52			2.0			.43			.68
AVG lyr grd -N/Kft			179			228			173			120			197

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	22	3	12	16	0	8	8	0	4	23	10	17	42	0	21
AVG top ht Kft			8.0			8.6			8.8			7.4			7.1
AVG thickness Kft			.50			.43			.66			.50			.41
AVG trap freq GHz			.44			.44			.34			.55			.45
AVG lyr grd -N/Kft			59			66			57			58			56
AVG lyr base Kft			7.6			8.3			8.3			7.0			6.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	1	2	2	1	1	2	1	2	2	1	2
10 to 20 Feet	2	3	2	2	1	1	2	2	2	2	5	4	1	3	2
20 to 30 Feet	3	5	4	3	4	3	4	4	4	4	7	6	2	5	4
30 to 40 Feet	5	10	8	5	8	7	6	10	8	6	11	8	5	10	8
40 to 50 Feet	10	19	14	9	17	13	10	20	15	9	19	14	10	20	15
50 to 60 Feet	12	22	17	12	21	16	12	24	18	11	21	16	11	21	16
60 to 70 Feet	11	16	14	13	18	16	12	17	14	9	14	12	10	16	13
70 to 80 Feet	10	10	10	12	13	13	11	10	11	7	8	8	9	10	9
80 to 90 Feet	7	5	6	10	7	8	7	5	6	5	4	4	6	4	5
90 to 100 Feet	5	2	4	7	4	5	5	2	4	3	2	3	4	2	3
above 100 Feet	33	7	20	25	5	15	38	6	18	40	8	24	33	8	23
Mean height Feet	95	60	78	86	61	73	91	59	75	103	59	81	101	61	81

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			2			0			1			0
% occur 2+ EL dcts			5			3			1			8			8
AVG station N			388			387			389			387			387
AVG station -N/Kft			22			21			21			21			24
AVG sfc wind Kts	14	13	13	17	16	16	14	14	14	10	10	10	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 2 31 S 44 16 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 82280 2 31 S 44 16 W
Radiosonde station height: 167 Feet
Surface obs source: MS5 5 00 N 45 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	*	*	*	2	0	1	1	0	1	1	0	1
1 GHz	40	7	23	*	*	*	35	6	20	43	9	25	41	8	25
3 GHz	51	14	32	*	*	*	48	13	30	52	14	33	52	15	33
6 GHz	80	61	70	*	*	*	80	63	72	78	57	67	81	62	71
10 GHz	93	90	92	*	*	*	94	93	94	91	87	89	95	91	93
20 GHz	97	96	96	*	*	*	97	97	97	95	94	94	97	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	0	5	0	0	0	15	0	8	11	0	6	10	0	5
AVG thickness Kft			.21			*			.17			.30			.16
AVG trap freq GHz			1.3			*			1.3			1.0			1.6
AVG lyr grd -N/Kft			181			*			190			142			212

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	4	9	20	0	10	0	0	0	13	14	14	24	0	12
AVG top ht Kft			4.2			3.3			*			4.3			4.8
AVG thickness Kft			.92			1.8			*			.33			.67
AVG trap freq GHz			.50			.06			*			1.1			.39
AVG lyr grd -N/Kft			63			76			*			55			57
AVG lyr base Kft			3.6			2.3			*			4.0			4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	1	2	2	1	1	2	1	2	2	1	2
10 to 20 Feet	2	3	2	2	1	1	2	2	2	2	5	4	1	3	2
20 to 30 Feet	3	5	4	3	4	3	4	4	4	4	7	6	2	5	4
30 to 40 Feet	5	10	8	5	8	7	6	10	8	6	11	8	5	10	8
40 to 50 Feet	10	19	14	9	17	13	10	20	15	9	19	14	10	20	15
50 to 60 Feet	12	22	17	12	21	16	12	24	18	11	21	16	11	21	16
60 to 70 Feet	11	16	14	13	18	16	12	17	14	9	14	12	10	16	13
70 to 80 Feet	10	10	10	12	13	13	11	10	11	7	8	8	9	10	9
80 to 90 Feet	7	5	6	10	7	8	7	5	6	5	4	4	6	4	5
90 to 100 Feet	5	2	4	7	4	5	5	2	4	3	2	3	4	2	3
above 100 Feet	33	7	20	25	5	15	30	6	18	40	8	24	38	8	23
Mean height Feet	95	60	78	86	61	73	91	59	75	103	59	81	101	61	81

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			3			4			0			0			7
AVG station N			385			390			388			383			377
AVG station -N/Kft			19			19			18			21			17
AVG sfc wind Kts	14	13	13	17	16	16	14	14	14	10	10	10	13	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 0 54 S 89 37 W (*) INDICATES INSUFFICIENT DATA
Radiosond source : 84008 0 54 S 89 37 W
Radiosonc. station height: 20 Feet
Surface obs source: MS308 5 00 S 85 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	*	*	*	*	*	*	1	0	1	1	0	0
1 GHz	20	5	12	*	*	*	*	*	*	19	4	11	21	6	14
3 GHz	23	6	15	*	*	*	*	*	*	21	5	13	25	7	16
6 GHz	39	21	30	*	*	*	*	*	*	36	20	28	41	22	32
10 GHz	70	61	65	*	*	*	*	*	*	68	60	64	72	61	67
20 GHz	85	81	83	*	*	*	*	*	*	85	81	83	85	80	82

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	0	4	*	*	*	*	*	*	5	0	3	11	0	6
AVG thickness Kft			.22			*			*			.34			.10
AVG trap freq GHz			1.3			*			*			.23			2.4
AVG lyr grd -N/Kft			316			*			*			482			149

ELEVATED DUCT SUMMARY:

PARAMETER	YEAPLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	0	8	*	*	*	*	*	*	11	0	6	20	0	10
AVG top ht Kft			5.4			*			*			4.5			6.3
AVG thickness Kft			.79			*			*			.66			.92
AVG trap freq GHz			.20			*			*			.31			.10
AVG lyr grd -N/Kft			67			*			*			66			68
AVG lyr base Kft			4.9			*			*			4.1			5.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	10	10	9	12	11	10	9	9	9	9	9	8	10	9
10 to 20 Feet	8	10	9	9	12	10	7	9	8	9	10	9	8	10	9
20 to 30 Feet	13	18	16	11	17	14	11	16	13	18	21	19	14	18	16
30 to 40 Feet	16	20	18	13	16	15	13	18	16	20	22	21	18	22	20
40 to 50 Feet	13	16	15	12	14	13	13	17	15	14	18	16	15	17	16
50 to 60 Feet	9	10	9	8	9	9	9	11	10	8	9	8	10	11	10
60 to 70 Feet	4	4	4	4	4	4	5	5	5	5	4	4	4	3	4
70 to 80 Feet	3	2	2	3	2	3	3	3	3	3	2	2	3	1	2
80 to 90 Feet	2	1	1	2	1	2	2	2	2	1	1	1	1	0	1
90 to 100 Feet	1	1	1	2	1	2	2	1	1	1	1	1	1	1	1
above 100 Feet	22	8	15	26	12	19	28	11	19	15	4	10	17	6	12
Mean height Feet	66	45	56	74	49	62	75	51	63	56	39	47	61	42	51

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			0			0			2
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			358			*			*			359			357
AVG station -N/Kft			15			*			*			14			15
AVG sfc wind Kts	9.2	10	9.4	7.3	7.5	7.4	9.4	10	9.5	10	11	11	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 S 95 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 84008 0 54 S 89 37 W
Radiosonde station height: 20 Feet
Surface obs source: MS309 5 00 S 95 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	*	*	*	*	*	*	1	0	1	1	0	0
1 GHz	29	7	18	*	*	*	*	*	*	27	6	16	30	9	20
3 GHz	37	11	24	*	*	*	*	*	*	36	9	23	37	12	24
6 GHz	59	37	48	*	*	*	*	*	*	60	38	49	58	35	46
10 GHz	82	74	78	*	*	*	*	*	*	83	73	78	81	75	78
20 GHz	90	89	89	*	*	*	*	*	*	91	88	89	89	90	90

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	0	4	*	*	*	*	*	*	5	0	3	11	0	6
AVG thickness Kft			.22			*			*			.34			.10
AVG trap freq GHz			1.3			*			*			.23			2.4
AVG lyr grd -N/Kft			316			*			*			482			149

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	0	8	*	*	*	*	*	*	11	0	6	20	0	10
AVG top ht Kft			5.4			*			*			4.5			6.3
AVG thickness Kft			.79			*			*			.66			.92
AVG trap freq GHz			.20			*			*			.31			.10
AVG lyr grd -N/Kft			67			*			*			66			68
AVG lyr base Kft			4.9			*			*			4.1			5.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	5	5	5	5	5	5	5	5	5	6	5	5	5	5
10 to 20 Feet	5	7	6	6	9	8	4	6	5	5	7	6	7	7	7
20 to 30 Feet	8	13	11	11	14	12	4	11	7	8	14	11	9	14	12
30 to 40 Feet	11	17	14	12	16	14	6	13	10	12	18	15	13	20	16
40 to 50 Feet	11	18	14	11	17	14	8	16	12	13	19	15	12	21	16
50 to 60 Feet	10	14	12	10	13	12	9	14	12	10	14	12	11	13	12
60 to 70 Feet	7	9	8	6	8	7	8	11	10	8	9	9	7	7	7
70 to 80 Feet	6	5	5	5	4	4	8	7	7	6	6	6	4	4	4
80 to 90 Feet	5	2	4	3	2	2	6	4	5	6	2	4	3	2	2
90 to 100 Feet	3	1	2	2	1	2	4	2	3	4	1	2	2	1	2
above 100 Feet	29	9	19	29	10	20	37	12	25	24	6	15	27	9	18
Mean height Feet	84	53	68	83	53	68	96	60	78	76	48	62	80	51	66

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			0			0			2
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			358			*			*			359			357
AVG station -N/Kft			15			*			*			14			15
AVG sfc wind Kts	11	10	11	9.3	8.9	9.1	12	11	11	13	12	12	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 9 49 S 139 01 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91925 9 49 S 139 01 W
Radiosonde station height: 167 Feet
Surface obs source: MS14 5 00 N 135 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	2	0	1	2	0	1	2	0	1	2	0	1
1 GHz	35	5	20	31	5	18	33	3	18	42	8	25	34	4	19
3 GHz	46	9	27	42	9	25	42	7	25	53	13	33	46	8	27
6 GHz	75	52	63	74	53	64	71	46	59	78	58	68	76	49	62
10 GHz	91	88	89	91	87	89	89	85	87	92	91	92	92	88	90
20 GHz	96	95	96	96	95	96	95	94	94	96	96	96	97	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	0	8	18	0	9	16	0	8	17	0	9	13	0	7
AVG thickness Kft			.17			.13			.14			.22			.20
AVG trap freq GHz			1.5			1.9			1.5			1.3			1.1
AVG lyr grd -N/Kft			120			109			114			137			122

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	29	0	14	22	0	11	26	0	13	43	0	22	23	0	12
AVG top ht Kft			7.2			7.0			6.7			7.1			7.8
AVG thickness Kft			.45			.43			.50			.47			.40
AVG trap freq GHz			.45			.56			.29			.34			.62
AVG lyr grd -N/Kft			58			57			58			59			57
AVG lyr base Kft			6.8			6.7			6.3			6.8			7.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	1	2	3	1	2	3	2	2	3	1	2	3	1	2
10 to 20 Feet	2	3	3	2	3	3	3	5	4	2	3	2	1	3	2
20 to 30 Feet	6	7	7	6	8	7	7	8	7	5	5	5	6	8	7
30 to 40 Feet	8	15	12	7	16	11	9	16	13	7	14	11	8	16	12
40 to 50 Feet	11	21	16	13	18	16	11	24	17	9	19	14	10	22	16
50 to 60 Feet	12	22	17	15	24	19	13	22	17	10	21	16	12	21	16
60 to 70 Feet	11	13	12	12	14	13	11	10	11	10	15	12	10	13	11
70 to 80 Feet	9	7	8	9	7	8	8	6	7	8	9	8	10	8	9
80 to 90 Feet	6	3	5	6	3	4	5	3	4	7	4	5	7	2	5
90 to 100 Feet	3	1	2	4	1	2	2	1	2	4	1	2	4	1	2
above 100 Feet	30	5	18	26	5	15	28	3	16	37	8	22	30	4	17
Mean height Feet	89	55	72	82	55	68	87	58	69	98	60	79	89	54	71

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			3			4			4			3
% occur 2+ EL dcts			3			2			2			4			3
AVG station N			370			374			373			369			365
AVG station -N/Kft			17			18			17			17			17
AVG sfc wind Kts	14	13	13	15	15	15	13	12	13	13	12	12	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 2 46 S 171 43 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91700 2 46 S 171 43 W
Radiosonde station height: 10 Feet
Surface obs source: MS317 5 00 S 175 00 W

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	12	1	7	14	5	9	13	0	6	12	0	6	10	0	5
1 GHz	65	16	41	68	29	49	63	8	36	67	17	42	60	11	36
3 GHz	78	25	52	81	40	60	77	15	46	81	25	53	74	20	47
6 GHz	91	63	77	93	72	82	90	54	72	93	65	79	89	62	76
10 GHz	97	87	92	98	91	95	97	84	90	98	88	93	96	87	91
20 GHz	99	95	97	99	96	97	98	94	96	99	95	97	98	95	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	73	7	40	79	27	53	73	0	37	75	0	38	66	0	33
AVG thickness Kft			.26			.24			.26			.28			.25
AVG trap freq GHz			.57			.51			.51			.56			.69
AVG lyr grd -N/Kft			97			106			96			92			93

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	23	0	11	17	0	9	17	0	9	30	0	15	26	0	13
AVG top ht Kft			5.2			5.1			5.1			5.5			5.0
AVG thickness Kft			.42			.41			.36			.42			.47
AVG trap freq GHz			.59			.78			.64			.42			.53
AVG lyr grd -N/Kft			57			58			55			57			60
AVG lyr base Kft			4.9			4.8			4.8			5.2			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	3	2	2	2	1	2	2	2	2	3	1	2
10 to 20 Feet	3	4	3	3	4	3	4	5	4	2	3	3	2	4	3
20 to 30 Feet	5	8	6	4	6	5	6	10	8	4	7	5	5	8	7
30 to 40 Feet	7	10	8	7	9	8	8	12	10	6	9	7	7	11	9
40 to 50 Feet	10	15	13	11	17	14	13	17	15	8	14	11	9	14	11
50 to 60 Feet	12	18	15	13	17	15	12	18	15	10	18	14	11	18	15
60 to 70 Feet	9	13	11	9	13	11	9	13	11	9	12	11	8	13	11
70 to 80 Feet	8	10	9	8	10	9	7	8	8	10	10	10	8	11	10
80 to 90 Feet	6	5	6	6	6	6	6	5	5	7	5	6	6	6	6
90 to 100 Feet	4	3	3	3	3	3	4	2	3	5	3	4	5	3	4
above 100 Feet	34	12	23	34	13	24	30	8	19	38	17	28	35	11	23
Mean height Feet	94	66	80	94	68	91	88	60	74	99	72	86	95	64	79

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SR dcts			14			11			13			17			15
% occur 2+ EL dcts			2			1			1			3			2
AVG station N			373			374			376			375			368
AVG station -N/Kft			23			24			23			24			23
AVG sfc wind Kts	10	9.0	9.4	11	10	10	8.5	8.3	8.4	10	9.4	10	10	8.8	9.2

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 8 31 S 179 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91643 8 31 S 179 13 E
Radiosonde station height: 3 Feet
Surface obs source: MS317 5 00 S 175 00 W

PERCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	0	2	4	0	2	3	0	1	4	0	2	3	0	2
1 GHz	43	12	28	44	13	29	38	8	23	49	17	33	43	11	27
3 GHz	55	28	38	55	22	38	49	15	32	61	25	43	55	20	38
6 GHz	79	61	70	79	62	71	73	54	64	84	65	75	79	62	71
10 GHz	92	87	90	93	88	91	91	84	87	94	88	91	92	87	89
20 GHz	96	94	95	96	95	95	96	94	95	97	95	96	96	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	25	0	13	26	0	13	21	0	11	28	0	14	26	0	13
AVG thickness Kft			.38			.37			.36			.41			.37
AVG trap freq GHz			.81			.69			.82			.59			1.1
AVG lyr grd -N/kft			92			95			97			78			99

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	0	7	11	0	6	11	0	6	19	0	10	18	0	9
AVG top ht Kft			5.5			6.5			4.1			6.5			4.7
AVG thickness Kft			.36			.25			.37			.44			.40
AVG trap freq GHz			1.2			2.3			1.0			.86			.80
AVG lyr grd -N/Kft			57			68			51			57			54
AVG lyr base Kft			5.2			6.3			3.8			5.2			4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	3	2	2	2	1	2	2	2	2	3	1	2
10 to 20 Feet	3	4	3	3	4	3	4	5	4	2	3	3	2	4	3
20 to 30 Feet	5	8	6	4	6	5	6	10	8	4	7	5	5	8	7
30 to 40 Feet	7	10	8	7	9	8	8	12	10	6	9	7	7	11	9
40 to 50 Feet	10	15	13	11	17	14	13	17	15	8	14	11	9	14	11
50 to 60 Feet	12	18	15	13	17	15	12	18	15	10	18	14	11	18	15
60 to 70 Feet	9	13	11	9	13	11	9	13	11	9	12	11	8	13	11
70 to 80 Feet	8	10	9	8	10	9	7	8	8	10	10	10	8	11	10
80 to 90 Feet	6	5	6	6	6	6	6	5	5	7	5	6	6	6	6
90 to 100 Feet	4	3	3	3	3	3	4	2	3	5	3	4	5	3	4
above 100 Feet	34	12	23	34	13	24	30	8	19	38	17	28	35	11	23
Mean height Feet	94	66	80	94	68	81	88	60	74	99	72	86	95	64	79

GENERAL METEOPOLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			2			1			4			2
% occur 2+ EL dcts			1			0			1			2			1
AVG station N			386			386			388			387			384
AVG station -N/kft			21			21			21			21			21
AVG sfc wind Kts	10	9.0	9.4	11	10	10	8.5	8.3	8.4	10	9.4	10	10	8.8	9.2

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 9 25 S 159 58 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91517 9 25 S 159 58 E
Radiosonde station height: 184 Feet
Surface obs source: MS320 5 00 S 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	0	2	3	0	2	4	0	2	3	0	2	5	0	3
1 GHz	50	8	29	48	10	29	49	7	28	46	8	27	55	8	32
3 GHz	59	13	36	58	14	36	58	11	34	57	14	35	64	13	39
6 GHz	82	51	66	80	49	65	80	48	64	82	57	69	84	50	67
10 GHz	94	82	88	94	80	87	93	81	87	94	87	91	95	81	88
20 GHz	97	92	95	97	98	94	97	92	94	97	94	96	98	91	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	31	0	16	24	0	12	33	0	17	26	0	13	41	0	21
AVG thickness Kft			.18			.19			.22			.16			.17
AVG trap freq GHz			1.0			.92			.93			1.1			1.0
AVG lyr grd -N/Kft			124			116			136			120			124

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	0	5	7	0	4	12	0	6	9	0	5	8	0	4
AVG top ht Kft			7.2			6.6			6.6			7.8			7.7
AVG thickness Kft			.38			.58			.32			.30			.30
AVG trap freq GHz			.66			.44			.67			.79			.75
AVG lyr grd -N/Kft			63			72			61			62			56
AVG lyr base Kft			6.9			6.3			6.3			7.6			7.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	1	2	2	2	1	2	1	2	1	1	2	1	1
10 to 20 Feet	2	6	4	2	8	5	2	6	4	1	4	3	2	7	4
20 to 30 Feet	5	10	7	5	10	7	5	11	8	4	7	5	5	11	8
30 to 40 Feet	6	13	10	7	14	10	7	13	10	5	13	9	7	13	10
40 to 50 Feet	10	18	14	10	17	13	11	19	15	10	17	13	9	18	13
50 to 60 Feet	11	20	16	12	19	15	12	19	16	11	21	16	11	19	15
60 to 70 Feet	10	13	11	9	11	10	10	13	11	12	15	13	10	12	11
70 to 80 Feet	6	6	6	6	6	6	6	6	6	8	8	8	6	6	6
80 to 90 Feet	5	3	4	5	3	4	4	3	3	6	4	5	4	3	3
90 to 100 Feet	3	1	2	3	1	2	3	1	2	3	2	2	2	2	2
above 100 Feet	40	8	24	41	10	26	38	7	22	38	8	23	43	8	26
Mean height Feet	104	58	81	106	58	82	101	56	78	101	60	81	110	57	83

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			3			3			2			2
% occur 2+ EL dcts			1			0			1			1			2
AVG station N			368			369			369			364			369
AVG station -N/Kft			18			18			18			17			18
AVG sfc wind Kts	9.3	8.5	8.9	8.8	7.7	8.2	9.0	8.7	8.8	11	10	11	8.2	7.4	7.8

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 S 155 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91517 9 25 S 159 58 E
Radiosonde station height: 184 Feet
Surface obs source: MS320 5 00 S 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	4	0	2	3	0	2	4	0	2	3	0	2	5	0	3
1 GHz	50	8	29	48	10	29	49	7	28	46	8	27	55	8	32
3 GHz	59	13	36	58	14	36	58	11	34	57	14	35	64	13	39
6 GHz	82	51	66	80	49	65	80	48	64	82	57	69	84	50	67
10 GHz	94	82	88	94	80	87	93	81	87	94	87	91	95	81	88
20 GHz	97	92	95	97	90	94	97	92	94	97	94	96	98	91	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	31	0	16	24	0	12	33	0	17	26	0	13	41	0	21
AVG thickness Kft			.18			.19			.22			.16			.17
AVG trap freq GHz			1.0			.92			.93			1.1			1.0
AVG lyr grd -N/Kft			124			116			136			120			124

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	0	5	7	0	4	12	0	6	9	0	5	8	0	4
AVG top ht Kft			7.2			6.6			6.6			7.8			7.7
AVG thickness Kft			.38			.58			.32			.30			.30
AVG trap freq GHz			.66			.44			.67			.79			.75
AVG lyr grd -N/Kft			63			72			61			62			56
AVG lyr base Kft			6.9			6.3			6.3			7.6			7.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	1	2	2	2	1	2	1	2	1	1	2	1	1
10 to 20 Feet	2	6	4	2	8	5	2	6	4	1	4	3	2	7	4
20 to 30 Feet	5	10	7	5	10	7	5	11	8	4	7	5	5	11	8
30 to 40 Feet	6	13	10	7	14	10	7	13	10	5	13	9	7	13	10
40 to 50 Feet	10	18	14	10	17	13	11	19	15	10	17	13	9	18	13
50 to 60 Feet	11	20	16	12	19	15	12	19	16	11	21	16	11	19	15
60 to 70 Feet	10	13	11	9	11	10	10	13	11	12	15	13	10	12	11
70 to 80 Feet	6	6	6	6	6	6	6	6	6	8	8	8	6	6	6
80 to 90 Feet	5	3	4	5	3	4	4	3	3	6	4	5	4	3	3
90 to 100 Feet	3	1	2	3	1	2	3	1	2	3	2	2	2	2	2
above 100 Feet	40	8	24	41	10	26	38	7	22	38	8	23	43	8	26
Mean height Feet	104	58	81	106	58	82	101	56	78	101	60	81	110	57	83

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			3			3			2			2
% occur 2+ EL dcts			1			0			1			1			2
AVG station N			368			369			369			364			369
AVG station -N/Kft			18			18			18			17			18
AVG sfc wind Kts	9.3	8.5	8.9	8.8	7.7	8.2	9.0	8.7	8.8	11	10	11	8.2	7.4	7.8

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 6 43 S 147 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94027 6 43 S 147 00 E
Radiosonde station height: 26 Feet
Surface obs source: MS321 5 00 S 145 00 E

PERCENT OCCURRENCE OF ENHANCED SUPFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	3	0	1	1	0	1	1	0	0	3	0	1
1 GHz	37	12	24	39	11	25	32	14	23	39	11	25	38	12	25
3 GHz	46	18	32	49	15	32	42	19	30	47	20	33	47	17	32
6 GHz	73	51	62	77	52	65	69	45	57	74	55	65	73	54	63
10 GHz	91	81	86	93	84	89	88	76	82	92	84	88	90	80	85
20 GHz	96	93	94	97	94	96	95	90	92	96	94	95	96	93	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	0	7	20	0	10	9	0	5	8	0	4	18	0	9
AVG thickness Kft			.34			.25			.29			.33			.48
AVG trap freq GHz			.88			1.0			.75			1.0			.76
AVG lyr grd -N/Kft			113			91			127			139			97

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	0	3	6	0	3	3	0	2	4	0	2	7	0	4
AVG top ht Kft			7.7			7.0			4.2			6.7			13
AVG thickness Kft			.36			.38			.37			.44			.27
AVG trap freq GHz			1.2			.88			2.4			1.2			.56
AVG lyr grd -N/Kft			64			58			58			66			73
AVG lyr base Kft			7.5			6.8			3.9			6.4			13

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	1	1	1	1	0	1	2	2	2	1	1	1	2	2	2
10 to 20 Feet	3	6	4	3	6	4	3	9	6	3	4	3	3	5	4
20 to 30 Feet	6	11	9	5	10	8	8	14	11	4	9	7	7	12	10
30 to 40 Feet	8	12	10	6	11	9	8	15	11	8	14	11	8	10	9
40 to 50 Feet	12	17	15	13	21	17	13	16	14	11	15	13	11	17	14
50 to 60 Feet	12	16	14	12	17	15	11	16	13	12	17	14	13	15	14
60 to 70 Feet	12	12	12	13	15	14	11	7	9	11	12	12	11	13	12
70 to 80 Feet	7	6	6	8	5	6	7	4	5	6	7	6	6	8	7
80 to 90 Feet	5	4	4	4	2	3	5	3	4	5	5	5	5	4	5
90 to 100 Feet	3	2	3	3	2	3	3	1	2	3	4	4	2	1	2
above 100 Feet	32	12	22	33	11	22	29	14	21	36	11	23	31	12	21
Mean height Feet	92	62	77	95	61	78	88	60	74	96	64	80	91	63	77

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			0			0			1
% occur 2+ EL dcts			1			0			0			1			2
AVG station N			368			368			368			367			370
AVG station -N/Kft			17			17			17			17			17
AVG sfc wind Kts	8.9	8.2	8.6	9.1	8.0	8.6	8.5	7.4	7.9	10	10	10	8.0	7.8	7.9

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 S 135 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94120 12 25 S 130 52 E
Radiosonde station height: 95 Feet
Surface obs source: MS322 5 00 S 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	1	0	1	3	0	1	2	0	1	2	0	1
1 GHz	45	13	29	38	11	24	47	15	31	47	13	30	49	15	32
3 GHz	55	22	39	49	21	35	58	24	41	58	22	40	56	20	38
6 GHz	81	63	72	77	66	71	83	66	75	85	63	74	80	55	67
10 GHz	94	87	90	92	88	90	95	92	94	95	87	91	92	81	86
20 GHz	98	95	96	97	96	97	99	96	97	98	96	97	97	91	94

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	0	7	12	0	6	17	0	9	14	0	7	13	0	7
AVG thickness Kft			.28			.17			.31			.43			.23
AVG trap freq GHz			.83			1.3			.59			.52			.88
AVG lyr grd -N/Kft			115			115			107			133			107

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	0	11	9	0	5	30	0	15	23	0	12	23	0	12
AVG top ht Kft			6.0			7.2			6.4			5.5			5.1
AVG thickness Kft			.40			.34			.37			.35			.56
AVG trap freq GHz			.66			1.2			.50			.65			.34
AVG lyr grd -N/Kft			60			66			58			59			57
AVG lyr base Kft			5.7			6.9			6.1			5.2			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	1	1	1	0	1	1	0	0	0	1	0	1	1	1	1
10 to 20 Feet	2	5	3	3	4	3	2	3	2	1	4	3	2	7	5
20 to 30 Feet	5	8	6	6	8	7	4	4	4	3	8	6	6	10	8
30 to 40 Feet	6	10	8	7	8	8	6	11	8	4	11	7	6	11	8
40 to 50 Feet	8	14	11	10	13	12	8	15	12	8	14	11	8	15	11
50 to 60 Feet	11	18	15	12	19	16	11	17	14	12	17	15	10	18	14
60 to 70 Feet	9	13	11	10	15	13	10	14	12	9	14	11	9	11	10
70 to 80 Feet	8	10	9	7	11	9	9	11	10	10	9	10	6	7	6
80 to 90 Feet	5	5	5	7	7	7	6	6	6	6	6	6	4	3	3
90 to 100 Feet	4	3	3	4	3	4	4	4	4	5	3	4	2	2	2
above 100 Feet	41	13	27	34	11	23	41	15	28	42	13	27	46	15	30
Mean height Feet	104	67	86	95	66	80	103	70	86	107	66	86	111	67	89

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			1			5			3			3
% occur 2+ EL dcts			2			1			2			2			3
AVG station N			364			380			356			347			372
AVG station -N/Kft			18			20			17			17			19
AVG sfc wind Kts	11	10	10	11	10	11	12	11	11	13	11	12	8.1	7.4	7.7

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 S 125 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94120 12 25 S 130 52 E
Radiosonde station height: 95 Feet
Surface obs source: MS323 5 00 S 125 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	1	0	1	3	0	1	2	0	1	2	0	1
1 GHz	45	15	30	37	13	25	47	16	32	46	15	30	48	16	32
3 GHz	54	20	37	47	19	33	57	22	40	56	21	38	55	20	38
6 GHz	77	55	66	73	56	64	80	60	70	79	56	68	76	48	62
10 GHz	91	82	87	91	84	87	93	84	89	92	84	88	90	74	82
20 GHz	96	92	94	95	92	94	98	94	96	96	92	94	96	88	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	0	7	12	0	6	17	0	9	14	0	7	13	0	7
AVG thickness Kft			.28			.17			.31			.43			.23
AVG trap freq GHz			.83			1.3			.59			.52			.88
AVG lyr grd -N/Kft			115			115			107			133			107

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	0	11	9	0	5	30	0	15	23	0	12	23	0	12
AVG top ht Kft			6.0			7.2			6.4			5.5			5.1
AVG thickness Kft			.40			.34			.37			.35			.56
AVG trap freq GHz			.66			1.2			.50			.65			.34
AVG lyr grd -N/Kft			60			66			58			59			57
AVG lyr base Kft			5.7			6.9			6.1			5.2			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	2	1	2	1	1	1	3	3	3	2	2	2
10 to 20 Feet	2	7	5	2	7	5	2	6	4	2	5	3	4	11	7
20 to 30 Feet	5	10	8	5	9	7	6	10	8	5	8	7	6	13	10
30 to 40 Feet	7	11	9	8	13	10	6	9	8	6	11	9	7	12	10
40 to 50 Feet	9	15	12	12	15	13	9	16	12	8	17	13	8	14	11
50 to 60 Feet	10	16	13	10	20	15	9	16	13	11	16	13	10	14	12
60 to 70 Feet	9	11	10	10	11	11	9	13	11	9	11	10	8	9	9
70 to 80 Feet	7	7	7	7	6	6	8	9	8	6	8	7	5	5	5
80 to 90 Feet	5	4	4	5	4	4	6	4	5	6	4	5	4	2	3
90 to 100 Feet	3	2	3	4	2	3	3	2	3	4	3	3	2	1	2
above 100 Feet	40	15	27	34	13	23	41	16	29	40	15	28	45	16	30
Mean height Feet	104	65	85	95	63	79	107	69	88	104	66	85	110	64	87

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			1			5			3			3
% occur 2+ EL dcts			2			1			2			2			3
AVG station N			364			380			356			347			372
AVG station -N/Kft			18			20			17			17			19
AVG sfc wind Kts	9.0	8.1	8.6	10	8.6	9.2	8.9	8.2	8.5	10	10	10	7.1	6.1	6.6

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 S 115 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 96743 6 09 S 106 51 E
Radiosonde station height: 16 Feet
Surface obs source: MS324 5 00 S 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	36	14	25	30	9	20	37	14	26	39	16	28	38	15	27
3 GHz	44	20	32	37	15	26	46	22	34	49	22	35	44	18	31
6 GHz	70	54	62	65	55	60	74	55	65	74	58	66	68	49	58
10 GHz	90	83	86	87	84	86	92	81	86	91	87	89	88	80	84
20 GHz	96	92	94	96	93	94	96	91	94	95	93	94	96	91	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	1	1	0	1	2	0	1	1	0	1	1	0	1
AVG thickness Kft			.29			.47			.22			.26			.20
AVG trap freq GHz			.74			.61			.29			.22			1.8
AVG lyr grd -N/Kft			999			999			999			650			999

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	0	1	2	0	1	3	0	2	4	0	2	2	0	1
AVG top ht Kft			5.3			4.7			5.8			5.4			5.3
AVG thickness Kft			.92			1.6			1.0			.51			.50
AVG trap freq GHz			1.2			1.8			1.1			1.4			.49
AVG lyr grd -N/Kft			80			79			123			61			55
AVG lyr base Kft			4.8			3.7			5.5			5.0			4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	1	1	1	1	1	1	1	1	1	2	2	2	1	2	1
10 to 20 Feet	3	6	5	3	5	4	3	7	5	3	6	4	3	7	5
20 to 30 Feet	6	10	8	8	10	9	5	10	8	4	7	6	8	11	10
30 to 40 Feet	8	12	10	9	10	10	6	10	8	6	13	10	10	14	12
40 to 50 Feet	11	17	14	13	18	16	11	16	14	11	16	13	11	17	14
50 to 60 Feet	11	16	13	11	18	14	13	15	14	9	15	12	12	15	13
60 to 70 Feet	9	11	10	11	13	12	9	11	10	10	12	11	8	9	9
70 to 80 Feet	6	8	7	7	9	8	7	7	7	7	9	8	4	6	5
80 to 90 Feet	4	4	4	4	5	4	5	5	5	5	4	5	4	2	3
90 to 100 Feet	3	2	2	3	1	2	4	2	3	4	3	3	2	2	2
above 100 Feet	36	14	25	29	9	19	36	14	25	39	16	28	38	15	27
Mean height Feet	98	65	81	87	61	74	99	66	83	103	67	85	100	65	83

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			1
AVG station N			384			384			385			392			383
AVG station -N/Kft			17			18			17			18			17
AVG sfc wind Kts	9.3	8.6	8.9	10	10	10	9.4	8.2	8.8	10	9.3	10	7.5	7.4	7.5

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 6 09 S 106 51 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 96743 6 09 S 106 51 E
Radiosonde station height: 16 Feet
Surface obs source: HS325 5 00 S 105 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	28	13	20	26	11	19	32	13	22	29	15	22	26	11	18
3 GHz	36	20	28	33	16	25	38	20	29	40	24	32	33	17	25
6 GHz	68	58	63	63	53	59	69	59	64	76	68	72	63	51	57
10 GHz	89	87	88	88	84	86	90	87	88	93	91	92	86	85	86
20 GHz	96	95	95	95	92	94	97	95	96	98	96	97	93	94	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	1	1	0	1	2	0	1	1	0	1	1	0	1
AVG thickness Kft			.29			.47			.22			.26			.20
AVG trap freq GHz			.74			.61			.29			.22			1.8
AVG lyr grd -N/Kft			999			999			999			658			999

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	0	1	2	0	1	3	0	2	4	0	2	2	0	1
AVG top ht Kft			5.3			4.7			5.8			5.4			5.3
AVG thickness Kft			.92			1.6			1.0			.51			.50
AVG trap freq GHz			1.2			1.8			1.1			1.4			.49
AVG lyr grd -N/Kft			80			79			123			61			55
AVG lyr base Kft			4.8			3.7			5.5			5.0			4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1
10 to 20 Feet	3	5	4	4	7	6	2	5	3	1	2	2	5	5	5
20 to 30 Feet	7	8	7	8	8	8	8	8	8	4	5	5	7	9	8
30 to 40 Feet	8	11	9	9	11	10	8	11	10	6	8	7	9	14	11
40 to 50 Feet	14	18	16	16	19	18	12	16	14	12	15	14	15	20	18
50 to 60 Feet	14	18	16	15	19	17	15	19	17	13	18	15	13	18	15
60 to 70 Feet	11	12	12	9	12	10	11	14	12	13	14	14	10	10	10
70 to 80 Feet	7	8	7	6	6	6	6	7	6	10	12	11	7	6	7
80 to 90 Feet	5	5	5	4	3	4	4	5	5	6	6	6	4	4	4
90 to 100 Feet	3	2	3	3	1	2	2	2	2	5	3	4	3	3	3
above 100 Feet	28	13	20	25	11	18	31	13	22	29	15	22	26	11	18
Mean height Feet	86	65	76	82	61	71	89	66	77	91	71	81	84	61	72

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			1
AVG station H			384			384			385			382			383
AVG station -N/Kft			17			18			17			18			17
AVG sfc wind Kts	10	9.4	10	10	9.0	9.3	8.9	8.4	8.7	12	12	12	10	8.6	9.0

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 S 95 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 96996 12 10 S 96 49 E
Radiosonde station height: 10 Feet
Surface obs source: MS326 5 00 S 95 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	1	0	1	0	0	0	1	0	0	1	0	0
1 GHz	31	10	21	29	10	20	34	12	23	35	10	22	27	8	17
3 GHz	40	16	28	35	15	25	43	18	30	47	18	33	34	14	24
6 GHz	68	52	60	62	47	54	71	52	61	77	60	69	61	50	56
10 GHz	89	83	86	86	77	82	90	84	87	93	88	90	87	82	84
20 GHz	95	92	94	94	88	91	95	94	95	96	94	95	94	92	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	0	2	6	0	3	3	0	2	3	0	2	6	0	3
AVG thickness Kft			.31			.36			.19			.45			.26
AVG trap freq GHz			.65			.53			1.2			.28			.64
AVG lyr grd -N/Kft			163			119			159			253			122

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	0	10	21	0	11	14	0	7	19	0	10	24	0	12
AVG top ht Kft			6.6			6.3			6.3			6.6			7.2
AVG thickness Kft			.43			.43			.46			.44			.41
AVG trap freq GHz			.36			.34			.36			.33			.43
AVG lyr grd -N/Kft			60			61			60			60			57
AVG lyr base Kft			6.3			6.0			6.0			6.3			6.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2
10 to 20 Feet	3	7	5	4	11	7	2	5	4	3	5	4	4	6	5
20 to 30 Feet	6	9	8	9	11	10	5	10	8	4	6	5	8	10	9
30 to 40 Feet	9	12	11	10	13	11	9	13	11	5	11	8	11	13	12
40 to 50 Feet	13	18	16	15	18	17	11	19	15	11	17	14	16	19	17
50 to 60 Feet	12	16	14	14	16	15	10	16	13	12	16	14	13	15	14
60 to 70 Feet	10	12	11	9	9	9	11	10	10	11	15	13	9	13	11
70 to 80 Feet	7	8	8	6	7	7	8	8	8	9	10	9	7	8	7
80 to 90 Feet	5	4	4	3	2	3	5	4	5	7	5	6	4	3	4
90 to 100 Feet	3	2	3	2	2	2	4	2	3	5	3	4	3	2	3
above 100 Feet	29	10	20	26	10	18	33	12	22	33	10	22	24	8	16
Mean height Feet	87	60	73	82	58	70	94	63	79	93	62	77	79	57	68

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			0			1
% occur 2+ EL dcts			2			2			1			1			3
AVG station N			362			363			364			360			362
AVG station -N/Kft			16			16			16			16			16
AVG sfc wind Kts	10	9.5	10	8.4	7.5	7.9	10	9.0	9.5	12	11	12	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 7 21 S 72 28 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 61967 7 21 S 72 28 E
Radiosonde station height: 3 Feet
Surface obs source: MS328 5 00 S 75 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	2	2	4	2	3	3	3	3	0	3	1	2	2	2
1 GHz	40	18	29	50	19	35	45	19	32	28	15	21	38	16	27
3 GHz	51	26	39	60	27	43	58	28	43	41	23	32	47	24	36
6 GHz	79	60	70	82	57	69	84	63	73	76	61	69	76	58	67
10 GHz	94	87	91	93	82	88	96	88	92	94	90	92	94	87	90
20 GHz	98	95	96	98	92	95	98	94	96	98	97	97	98	95	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	17	17	17	37	18	28	17	17	17	0	14	7	15	17	16
AVG thickness Kft			.28			.26			.28			.31			.26
AVG trap freq GHz			.74			1.2			.59			.43			.81
AVG lyr grd -N/Kft			168			231			117			194			129

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	29	35	32	27	39	33	25	40	33	29	32	31	36	28	32
AVG top ht kft			6.1			5.8			5.3			6.5			6.6
AVG thickness Kft			.52			.51			.59			.56			.40
AVG trap freq GHz			.33			.30			.23			.32			.45
AVG lyr grd -N/Kft			60			62			59			60			57
AVG lyr base Kft			5.7			5.5			4.8			6.1			6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	1	2	1	2	3	2	1	2	1	1	1	1	1	1	1
10 to 20 Feet	1	5	3	1	7	4	2	4	3	2	3	2	1	5	3
20 to 30 Feet	5	9	7	6	11	9	3	8	5	4	8	6	5	9	7
30 to 40 Feet	7	13	10	7	11	9	5	12	9	7	13	10	8	16	12
40 to 50 Feet	11	18	14	9	18	14	10	17	13	11	20	16	12	18	15
50 to 60 Feet	12	18	15	13	16	15	8	18	13	13	19	16	13	19	16
60 to 70 Feet	11	13	12	10	11	10	11	14	13	13	14	14	11	13	12
70 to 80 Feet	8	7	8	5	5	5	10	8	9	10	10	10	8	7	7
80 to 90 Feet	6	4	5	3	3	3	8	5	6	8	5	6	5	4	5
90 to 100 Feet	4	2	3	3	2	3	5	2	3	5	2	3	3	1	2
above 100 Feet	35	9	22	40	12	26	39	10	24	28	5	17	32	8	20
Mean height Feet	97	59	78	103	61	82	104	61	83	89	57	73	94	58	76

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			6			1			3			2
% occur 2+ EL dcts			8			12			8			5			6
AVG station N			381			387			379			377			381
AVG station -N/Kft			18			19			18			17			17
AVG sfc wind Kts	11	10	10	8.4	7.3	7.9	11	10	10	13	12	13	10	8.9	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 0 40 S 73 10 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 41350 0 40 S 73 10 E
Radiosonde station height: 7 Feet
Surface obs source: MS328 5 00 S 75 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	5	0	2	5	0	3	5	0	3	5	0	2	4	0	2
1 GHz	47	9	28	52	12	32	51	10	31	42	5	24	42	8	25
3 GHz	59	15	37	61	17	39	64	16	40	57	12	35	52	13	33
6 GHz	83	53	68	82	49	66	86	56	71	84	55	69	78	51	65
10 GHz	95	84	90	93	79	86	97	85	91	96	89	92	94	85	90
20 GHz	98	94	96	98	90	94	99	93	96	99	96	98	98	94	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	33	0	16	37	0	19	32	0	16	37	0	19	24	0	12
AVG thickness Kft			.27			.25			.29			.25			.31
AVG trap freq GHz			.69			.81			.52			.85			.60
AVG lyr grd -N/Kft			111			121			103			103			118

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	10	8	9	11	33	22	8	0	4	7	0	4	13	0	7
AVG top ht Kft			5.8			3.0			8.1			8.1			4.1
AVG thickness Kft			.38			.57			.30			.29			.38
AVG trap freq GHz			.86			.29			1.2			1.4			.51
AVG lyr grd -N/Kft			58			60			56			56			58
AVG lyr base Kft			5.5			2.5			7.9			7.9			3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	1	2	1	2	3	2	1	2	1	1	1	1	1	1	1
10 to 20 Feet	1	5	3	1	7	4	2	4	3	2	3	2	1	5	3
20 to 30 Feet	5	9	7	6	11	9	3	8	5	4	8	6	5	9	7
30 to 40 Feet	7	13	10	7	11	9	5	12	9	7	13	10	8	16	12
40 to 50 Feet	11	18	14	9	18	14	10	17	13	11	20	16	12	18	15
50 to 60 Feet	12	18	15	13	16	15	8	18	13	13	19	16	13	19	16
60 to 70 Feet	11	13	12	10	11	10	11	14	13	13	14	14	11	13	12
70 to 80 Feet	8	7	8	5	5	5	10	8	9	10	10	10	8	7	7
80 to 90 Feet	6	4	5	3	3	3	8	5	6	8	5	6	5	4	5
90 to 100 Feet	4	2	3	3	2	3	5	2	3	5	2	3	3	1	2
above 100 Feet	35	9	22	40	12	26	39	10	24	28	5	17	32	8	20
Mean height Feet	97	59	78	103	61	82	104	61	83	89	57	73	94	58	76

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			2			2			1			3
% occur 2+ EL dcts			1			1			1			0			3
AVG station N			383			381			384			386			381
AVG station -N/Kft			20			19			20			21			19
AVG sfc wind Kts	11	10	10	8.4	7.3	7.9	11	10	10	13	12	13	10	8.9	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 S 45 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 63894 6 52 S 39 12 E
Radiosonde station height: 180 Feet
Surface obs source: MS331 5 00 S 45 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	1	1	2	1	1	1	0	1	2	1	1
1 GHz	40	10	25	49	13	31	39	10	24	29	7	18	46	11	28
3 GHz	51	17	34	58	21	39	51	18	34	42	12	27	55	16	36
6 GHz	79	56	68	81	60	70	82	63	72	74	53	63	80	59	65
10 GHz	93	86	90	93	87	90	94	89	92	91	87	89	93	82	88
20 GHz	96	93	95	96	94	95	97	94	95	95	94	95	97	91	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	7	9	11	10	11	16	6	11	4	3	4	16	9	13
AVG thickness Kft			.19			.10			.21			.28			.15
AVG trap freq GHz			1.4			1.8			1.3			.55			2.0
AVG lyr grd -N/Kft			215			155			319			185			200

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	13	10	9	7	8	6	9	8	11	15	13	6	19	13
AVG top ht Kft			6.1			4.8			5.9			7.9			5.9
AVG thickness Kft			.46			.50			.48			.42			.46
AVG trap freq GHz			.40			.30			.38			.51			.41
AVG lyr grd -N/Kft			61			61			58			64			59
AVG lyr base Kft			5.8			4.5			5.5			7.6			5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	1	1	2	2	2	3	2	2	2	1	2
10 to 20 Feet	2	5	4	2	6	4	1	4	3	3	3	3	2	8	5
20 to 30 Feet	4	7	6	3	8	5	3	5	4	4	7	6	4	10	7
30 to 40 Feet	6	12	9	5	11	8	5	10	8	7	14	11	6	14	10
40 to 50 Feet	9	19	14	8	18	13	8	18	13	11	21	16	9	20	14
50 to 60 Feet	11	29	15	9	19	14	12	21	16	12	20	16	10	20	15
60 to 70 Feet	12	13	12	9	14	11	13	15	14	11	12	12	9	10	10
70 to 80 Feet	9	8	8	7	8	8	10	11	10	10	8	9	7	5	6
80 to 90 Feet	6	4	5	5	4	5	7	5	6	8	3	6	5	2	4
90 to 100 Feet	4	2	3	3	2	3	4	2	3	5	2	3	3	1	2
above 100 Feet	37	7	22	46	18	28	34	7	21	27	5	16	42	8	25
Mean height Feet	101	58	80	114	62	88	97	60	78	85	55	70	107	56	82

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			0			1
% occur 2+ EL dcts			0			0			0			1			1
AVG station N			370			379			372			357			372
AVG station -N/Kft			16			18			16			14			18
AVG sfc wind Kts	12	11	11	9.3	9.1	9.2	12	12	12	15	14	14	10	9.1	9.4

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 6 52 S 39 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 63894 6 52 S 39 12 E
Radiosonde station height: 180 Feet
Surface obs source: MS331 5 00 S 45 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGE::

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	1	1	2	1	1	1	0	1	2	1	1
1 GHz	40	10	25	49	13	31	39	10	24	29	7	18	46	11	28
3 GHz	51	17	34	58	21	39	51	18	34	42	12	27	55	16	36
6 GHz	79	56	68	81	60	70	82	63	72	74	53	63	80	50	65
10 GHz	93	86	90	93	87	90	94	89	92	91	87	89	93	82	88
20 GHz	96	93	95	96	94	95	97	94	95	95	94	95	97	91	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	7	9	11	10	11	16	6	11	4	3	4	16	9	13
AVG thickness Kft			.19			.10			.21			.28			.15
AVG trap freq GHz			1.4			1.8			1.3			.55			2.0
AVG lyr grd -N/Kft			215			155			319			185			200

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	13	10	9	7	8	6	9	8	11	15	13	6	19	13
AVG top ht Kft			6.1			4.8			5.9			7.9			5.9
AVG thickness Kft			.46			.50			.48			.42			.46
AVG trap freq GHz			.40			.30			.38			.51			.41
AVG lyr grd -N/Kft			61			61			58			64			59
AVG lyr base Kft			5.8			4.5			5.5			7.6			5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	1	1	2	2	2	3	2	2	2	1	2
10 to 20 Feet	2	5	4	2	6	4	1	4	3	3	3	3	2	8	5
20 to 30 Feet	4	7	6	3	8	5	3	5	4	4	7	6	4	10	7
30 to 40 Feet	6	12	9	5	11	8	5	10	8	7	14	11	6	14	10
40 to 50 Feet	9	19	14	8	18	13	8	18	13	11	21	16	9	20	14
50 to 60 Feet	11	20	15	9	19	14	12	21	16	12	20	16	10	20	15
60 to 70 Feet	10	13	12	9	14	11	13	15	14	11	13	12	9	10	10
70 to 80 Feet	9	8	8	7	8	8	10	11	10	10	8	9	7	5	6
80 to 90 Feet	6	4	5	5	4	5	7	5	6	8	3	6	5	2	4
90 to 100 Feet	4	2	3	3	2	3	4	2	3	5	2	3	3	1	2
above 100 Feet	37	7	22	46	10	28	34	7	21	27	5	16	42	8	25
Mean height Feet	101	58	80	114	62	88	97	60	78	85	55	70	107	56	82

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			0			1
% occur 2+ EL dcts			0			0			0			1			1
AVG station N			370			379			372			357			372
AVG station -N/Kft			16			18			16			14			18
AVG sfc wind Kts	12	11	11	9.3	9.1	9.2	12	12	12	15	14	14	10	9.1	9.4

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 8 51 S 13 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 66160 8 51 S 13 13 E
Radiosonde station height: 243 Feet
Surface obs source: MS370 15 00 S 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	2	0	1	1	0	0	1	0	1	2	0	1
1 GHz	20	8	14	25	9	17	16	6	11	17	7	12	23	7	15
3 GHz	24	9	17	30	12	21	20	8	14	20	8	14	27	9	18
6 GHz	39	22	30	50	34	42	37	22	29	28	13	21	40	18	29
10 GHz	67	57	62	78	73	75	71	62	66	53	40	46	69	53	61
20 GHz	83	77	80	89	87	88	86	80	83	75	66	71	83	74	79

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	0	6	15	0	8	9	0	5	9	0	5	15	0	8
AVG thickness Kft			.16			.22			.12			.17			.12
AVG trap freq GHz			1.3			1.6			1.5			.69			1.2
AVG lyr grd -N/Kft			169			235			130			182			127

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	23	19	6	17	12	23	33	28	20	42	31	7	0	4
AVG top ht Kft			4.0			4.6			2.7			4.5			4.4
AVG thickness Kft			.62			.61			.68			.51			.67
AVG trap freq GHz			.39			.54			.28			.38			.36
AVG lyr grd -N/Kft			57			52			55			58			63
AVG lyr base Kft			3.5			4.0			2.1			4.1			4.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	8	9	8	6	6	6	6	8	7	9	11	10	9	10	9
10 to 20 Feet	11	15	13	7	7	7	9	12	11	13	23	20	10	17	14
20 to 30 Feet	18	20	19	12	14	13	17	18	18	25	26	25	17	21	19
30 to 40 Feet	17	20	19	14	20	17	19	22	20	18	19	18	17	20	19
40 to 50 Feet	14	15	15	16	18	17	17	18	18	8	8	8	14	16	15
50 to 60 Feet	9	6	9	12	15	13	11	8	10	4	3	4	9	7	8
60 to 70 Feet	4	3	3	6	5	5	5	4	4	2	1	1	3	1	2
70 to 80 Feet	2	1	2	3	3	3	3	1	2	1	1	1	2	1	1
80 to 90 Feet	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1
90 to 100 Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
above 100 Feet	16	8	12	20	9	15	13	6	10	13	7	10	17	7	12
Mean height Feet	57	43	50	68	52	60	55	43	49	47	37	42	58	41	49

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SR dcts			1			1			0			2			2
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			361			368			365			350			361
AVG station -N/Kft			17			18			18			15			17
AVG sfc wind Kts	11	11	11	5.3	10	10	11	11	11	11	10	11	11	11	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 5 00 S 5 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 66160 8 51 S 13 13 E
Radiosonde station height: 243 Feet
Surface obs source: MS335 5 00 S 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	2	0	1	1	0	0	1	0	1	2	0	1
1 GHz	34	7	21	36	9	22	42	10	26	31	6	18	26	5	15
3 GHz	41	12	26	43	16	29	49	17	33	38	8	23	33	8	21
6 GHz	66	44	55	71	58	64	75	57	66	60	30	45	58	33	45
10 GHz	91	87	89	94	93	93	91	91	91	88	79	84	91	84	87
20 GHz	95	96	95	97	97	97	95	96	95	93	94	94	96	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	0	6	15	0	8	9	0	5	9	0	5	15	0	8
AVG thickness Kft			.16			.22			.12			.17			.12
AVG trap freq GHz			:.3			1.6			1.5			.69			1.2
AVG lyr grd -N/Kft			169			235			130			182			127

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	23	19	6	17	12	23	33	28	20	42	31	7	0	4
AVG top ht Kft			4.0			4.6			2.7			4.5			4.4
AVG thickness Kft			.62			.61			.68			.51			.67
AVG trap freq GHz			.39			.54			.28			.38			.36
AVG lyr grd -N/Kft			57			52			55			58			63
AVG lyr base Kft			3.5			4.0			2.1			4.1			4.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	1	2	2	1	2	3	2	2	4	1	3	2	2	2
10 to 20 Feet	3	3	3	3	2	2	2	3	3	3	4	4	3	3	3
20 to 30 Feet	5	9	7	4	4	4	4	5	5	5	15	10	7	11	9
30 to 40 Feet	12	18	15	9	12	11	8	11	10	13	24	19	16	23	19
40 to 50 Feet	15	25	20	16	23	19	9	22	15	17	25	21	21	29	25
50 to 60 Feet	14	19	16	14	24	19	11	19	15	14	14	14	16	18	17
60 to 70 Feet	8	9	9	11	12	12	9	14	12	5	6	6	7	3	5
70 to 80 Feet	5	5	5	6	6	6	7	7	7	4	3	4	4	3	4
80 to 90 Feet	3	3	3	3	4	4	3	4	3	4	1	3	3	2	3
90 to 100 Feet	2	2	2	2	3	2	3	3	3	2	1	2	2	1	2
above 100 Feet	30	7	19	32	9	20	40	10	25	27	6	16	21	5	13
Mean height Feet	88	56	72	91	63	77	102	64	83	82	49	65	75	49	62

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			0			2			2
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			361			368			365			350			361
AVG station -N/Kft			17			18			18			15			17
AVG sfc wind Kts	10	9.2	9.4	8.8	8.5	8.7	10	10	10	10	9.0	9.3	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 S 5 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 61902 7 58 S 14 24 W
Radiosonde station height: 282 Feet
Surface obs source: MS336 15 00 S 5 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
1 GHz	36	10	23	39	11	25	46	12	29	31	8	19	29	8	19
3 GHz	46	17	32	47	18	33	60	23	41	42	14	28	36	12	24
6 GHz	77	60	68	74	59	66	87	73	80	78	58	68	68	50	59
10 GHz	93	90	92	92	89	91	95	94	95	94	91	93	91	88	89
20 GHz	97	96	97	96	95	96	97	98	97	97	98	98	96	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	3	3	6	4	5	4	3	4	2	4	3	3	1	2
AVG thickness Kft			.16			.14			.18			.21			.11
AVG trap freq GHz			2.7			3.0			1.8			.86			5.1
AVG lyr grd -N/Kft			219			200			102			97			475

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	50	45	48	43	43	43	43	42	43	59	50	55	56	46	51
AVG top ht Kft			5.5			5.2			5.8			5.7			5.1
AVG thickness Kft			.64			.59			.55			.73			.68
AVG trap freq GHz			.18			.19			.23			.13			.16
AVG lyr grd -N/Kft			66			66			64			67			66
AVG lyr base Kft			5.0			4.8			5.5			5.2			4.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	1	2	2	2	2	1	1	1	1	1	2	1	1
10 to 20 Feet	1	2	2	2	3	2	1	1	1	1	2	1	2	3	2
20 to 30 Feet	3	6	5	4	6	5	2	4	3	3	7	5	5	8	6
30 to 40 Feet	6	11	9	7	11	9	3	7	5	5	13	9	9	15	12
40 to 50 Feet	11	20	15	12	20	16	5	15	10	12	21	16	15	23	19
50 to 60 Feet	12	21	16	12	22	17	8	21	14	13	21	17	15	20	17
60 to 70 Feet	10	15	13	9	12	11	10	18	14	14	16	15	10	12	11
70 to 80 Feet	8	8	8	7	7	7	10	12	11	9	9	9	7	6	6
80 to 90 Feet	6	4	5	5	4	4	8	6	7	7	4	6	4	2	3
90 to 100 Feet	4	2	3	3	3	3	6	4	5	4	2	3	3	2	2
above 100 Feet	35	9	22	37	10	24	46	11	29	30	6	18	29	8	18
Mean height Feet	98	62	80	100	63	81	113	69	91	92	58	75	88	59	73

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SA dcts			2			2			2			1			1
% occur 2+ EL dcts			9			8			9			9			9
AVG station N			356			363			360			347			353
AVG station -N/Kft			15			15			16			14			14
AVG sfc wind Kts	13	12	13	11	11	11	13	13	13	14	13	14	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 13 00 S 38 31 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 83229 13 00 S 38 31 W
Radiosonde station height: 167 Feet
Surface obs source: MS339 15 00 S 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	0	1	*	*	*	0	3	2	1	0	1
1 GHz	41	12	27	45	10	27	*	*	*	34	17	26	45	9	27
3 GHz	51	19	35	54	16	35	*	*	*	46	26	36	54	15	34
6 GHz	79	60	69	81	60	71	*	*	*	76	63	70	79	55	67
10 GHz	92	89	90	93	90	91	*	*	*	92	90	91	92	87	89
20 GHz	96	96	96	96	96	96	*	*	*	95	96	96	95	94	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	5	5	10	0	5	0	0	0	3	19	11	7	0	4
AVG thickness Kft			.37			.31			*			.35			.44
AVG trap freq GHz			.76			1.1			*			.70			.48
AVG lyr grd -N/Kft			164			216			*			159			117

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	18	8	13	25	0	13	13	0	7	20	33	27	14	0	7
AVG top ht Kft			7.3			6.6			6.1			8.2			8.3
AVG thickness Kft			.49			.59			.39			.42			.57
AVG trap freq GHz			.41			.26			.47			.54			.38
AVG lyr grd -N/Kft			61			63			58			61			63
AVG lyr base Kft			6.9			6.2			5.8			7.8			7.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	2	1	2	2	1	2	3	1	2	4	3	3
10 to 20 Feet	2	3	2	1	3	2	2	3	3	2	3	3	2	4	3
20 to 30 Feet	4	7	5	4	7	5	4	6	5	4	8	6	4	8	6
30 to 40 Feet	5	12	9	5	11	8	5	10	8	5	14	10	6	13	9
40 to 50 Feet	9	18	14	8	18	13	10	17	13	10	18	14	8	19	14
50 to 60 Feet	10	20	15	10	20	15	11	20	15	11	20	15	9	19	14
60 to 70 Feet	10	14	12	10	15	12	11	16	13	10	13	12	9	12	11
70 to 80 Feet	9	9	9	9	9	9	10	10	10	10	10	10	8	9	8
80 to 90 Feet	6	4	5	5	5	5	7	4	5	6	4	5	5	4	4
90 to 100 Feet	4	2	3	4	2	3	5	3	4	5	2	4	4	2	3
above 100 Feet	38	8	23	42	10	26	34	8	21	33	7	20	42	9	25
Mean height Feet	101	61	81	107	63	85	96	62	79	93	59	76	106	59	82

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			0			0			2
% occur 2+ EL dcts			1			0			1			1			0
AVG station N			377			380			384			368			377
AVG station -N/Kft			18			18			19			17			18
AVG sfc wind Kts	11	10	11	10	9.4	10	11	10	11	12	11	12	11	11	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 12 43 S 60 07 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 83208 12 43 S 60 07 W
Radiosonde station height: -325 Feet
Surface obs.source: MS343 15 00 S 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	2	0	1	1	0	0	2	0	1	*	*	*
1 GHz	27	11	19	29	14	22	28	14	21	25	5	15	*	*	*
3 GHz	32	14	23	34	17	26	32	17	24	29	7	18	*	*	*
6 GHz	49	32	41	51	37	44	50	35	42	47	24	35	*	*	*
10 GHz	70	63	67	67	61	64	73	64	69	71	64	67	*	*	*
20 GHz	80	77	78	74	71	73	82	78	80	84	81	82	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	0	3	5	0	3	8	0	4	13	0	7	0	0	0
AVG thickness Kft			*			*			*			*			*
AVG trap freq GHz			.58			.11			1.1			.54			*
AVG lyr grd -N/Kft			196			161			332			94			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	0	6	13	0	7	21	0	11	13	0	7	0	0	0
AVG top ht Kft			*			*			*			*			*
AVG thickness Kft			.38			.28			.48			.37			*
AVG trap freq GHz			1.3			2.7			.26			.79			*
AVG lyr grd -N/Kft			63			64			68			58			*
AVG lyr base Kft			*			*			*			*			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	14	14	21	20	21	12	14	13	10	8	9	15	15	15
10 to 20 Feet	8	11	9	7	9	8	8	9	9	9	12	11	8	13	10
20 to 30 Feet	11	14	12	8	10	9	9	14	12	15	17	16	11	15	13
30 to 40 Feet	12	15	13	8	11	10	13	13	13	15	21	18	11	14	12
40 to 50 Feet	10	15	13	8	13	10	11	17	14	12	18	15	10	12	11
50 to 60 Feet	8	9	9	9	10	9	10	10	10	8	9	8	5	9	7
60 to 70 Feet	5	5	5	5	6	6	5	5	5	7	6	6	3	4	4
70 to 80 Feet	4	3	3	4	4	4	3	3	3	4	2	3	3	2	3
80 to 90 Feet	2	1	2	3	2	2	2	2	2	2	1	1	1	1	1
90 to 100 Feet	2	1	1	2	1	2	1	1	1	2	1	1	1	1	1
above 100 Feet	25	12	18	26	14	20	25	14	19	18	5	11	30	13	22
Mean height Feet	69	49	59	70	52	61	71	51	61	61	42	52	76	50	63

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			2			2			2			0
% occur 2+ EL dcts			1			2			2			0			0
AVG station N			351			360			348			338			358
AVG station -N/Kft			18			18			16			16			21
AVG sfc wind Kts	11	11	11	10	9.5	10	11	11	11	13	13	13	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 12 00 S 77 07 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 84628 12 00 S 77 07 W
Radiosonde station height: 36 Feet
Surface obs source: MS343 15 00 S 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	1	0	0	0	0	0	0	0	*	*	*
1 GHz	23	12	17	26	16	21	25	14	20	18	6	12	*	*	*
3 GHz	26	15	21	30	20	25	28	18	23	21	8	15	*	*	*
6 GHz	45	33	39	49	40	44	46	36	41	40	25	32	*	*	*
10 GHz	67	64	66	65	63	64	71	65	68	67	64	65	*	*	*
20 GHz	78	77	78	73	73	73	80	78	79	81	81	81	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	3	1	0	6	3	0	3	2	0	1	1	0	0	0
AVG thickness Kft			.29			.28			.26			.33			*
AVG trap freq GHz			1.7			1.4			3.5			.24			*
AVG lyr grd -M/Kft			231			189			271			233			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	66	33	0	62	31	0	63	32	0	71	36	0	66	33
AVG top ht Kft			5.4			6.7			5.9			4.0			5.1
AVG thickness Kft			.58			.53			.49			.77			.52
AVG trap freq GHz			.26			.25			.33			.15			.31
AVG lyr grd -M/Kft			62			61			58			68			61
AVG lyr base Kft			5.0			6.3			5.5			3.5			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	14	14	21	20	21	12	14	13	10	8	9	15	15	15
10 to 20 Feet	8	11	9	7	9	8	8	9	9	9	12	11	8	13	10
20 to 30 Feet	11	14	12	8	10	9	9	14	12	15	17	16	11	15	13
30 to 40 Feet	12	15	13	8	11	10	13	13	13	15	21	18	11	14	12
40 to 50 Feet	10	15	13	8	13	10	11	17	14	12	18	15	10	12	11
50 to 60 Feet	8	9	9	9	10	9	10	10	10	8	9	8	5	9	7
60 to 70 Feet	5	5	5	5	6	6	5	5	5	7	6	6	3	4	4
70 to 80 Feet	4	3	3	4	4	4	3	3	3	4	2	3	3	2	3
80 to 90 Feet	2	1	2	3	2	2	2	2	2	2	1	1	1	1	1
90 to 100 Feet	2	1	1	2	1	2	1	1	1	2	1	1	1	1	1
above 100 Feet	25	12	18	26	14	20	25	14	19	18	5	11	30	13	22
Mean height Feet	69	49	59	70	52	61	71	51	61	61	42	52	76	50	63

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			4			2			0			0
% occur 2+ EL dcts			21			19			25			14			27
AVG station N			349			361			349			340			345
AVG station -M/Kft			15			16			13			17			16
AVG sfc wind Kts	11	11	11	10	9.5	10	11	11	11	13	13	13	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 12 06 S 77 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 84631 12 06 S 77 00 W
Radiosonde station height: 446 Feet
Surface obs source: MS343 15 00 S 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	2	1	0	2	1	*	*	*	*	*	*	*	*	*
1 GHz	26	20	23	26	20	23	*	*	*	*	*	*	*	*	*
3 GHz	30	24	27	30	24	27	*	*	*	*	*	*	*	*	*
6 GHz	49	42	45	49	42	45	*	*	*	*	*	*	*	*	*
10 GHz	65	64	64	65	64	64	*	*	*	*	*	*	*	*	*
20 GHz	73	74	73	73	74	73	*	*	*	*	*	*	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	2	1	0	8	4	0	0	0	0	0	0	0	0	0
AVG thickness Kft			.68			.68			*			*			*
AVG trap freq GHz			.20			.20			*			*			*
AVG lyr grd -N/Kft			96			96			*			*			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	58	29	0	54	27	0	57	29	0	62	31	0	59	30
AVG top ht Kft			4.8			8.3			3.8			3.0			4.1
AVG thickness Kft			.59			.45			.34			1.0			.54
AVG trap freq GHz			.44			.52			.86			.07			.30
AVG lyr grd -N/Kft			61			60			51			72			60
AVG lyr base Kft			4.4			7.9			3.5			2.3			3.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	14	14	21	20	21	12	14	13	10	8	9	15	15	15
10 to 20 Feet	8	11	9	7	9	8	8	9	9	9	12	11	8	13	10
20 to 30 Feet	11	14	12	8	10	9	9	14	12	15	17	16	11	15	13
30 to 40 Feet	12	15	13	8	11	10	13	13	13	15	21	18	11	14	12
40 to 50 Feet	10	15	13	8	13	10	11	17	14	12	18	15	10	12	11
50 to 60 Feet	8	9	9	9	10	9	10	10	10	6	9	8	5	9	7
60 to 70 Feet	5	5	5	5	6	6	5	5	5	7	6	6	3	4	4
70 to 80 Feet	4	3	3	4	4	4	3	3	3	4	2	3	3	2	3
80 to 90 Feet	2	1	2	3	2	2	2	2	2	2	1	1	1	1	1
90 to 100 Feet	2	1	1	2	1	2	1	1	1	2	1	1	1	1	1
above 100 Feet	25	12	18	26	14	20	25	14	19	18	5	11	30	13	22
Mean height Feet	69	49	59	70	52	61	71	51	61	61	42	52	75	50	63

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			3			4			0			0
% occur 2+ EL dcts			18			17			5			0			20
AVG station N			345			354			342			337			345
AVG station -N/Kft			17			15			16			21			18
AVG sfc wind Kts	11	11	11	10	9.5	10	11	11	11	13	13	13	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 18 04 S 140 57 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91944 18 04 S 140 57 W
Radiosonde station height: 7 Feet
Surface obs source: MS15 5 00 N 145 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	3	0	2	2	0	1	1	0	1	1	0	0
1 GHz	30	5	18	31	5	18	28	4	16	35	7	21	27	6	16
3 GHz	43	11	27	45	9	27	38	11	25	45	14	29	42	11	27
6 GHz	74	55	65	76	55	66	71	53	62	75	57	66	75	56	66
10 GHz	92	88	90	92	88	90	90	90	90	93	86	89	94	88	91
20 GHz	97	96	96	97	96	97	97	97	97	97	95	96	97	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	13	0	6	24	0	12	12	0	6	7	0	4	8	0	4
AVG thickness Kft			.37			.43			.35			.39			.32
AVG trap freq GHz			.82			.79			.73			.62			1.2
AVG lyr grd -N/Kft			130			80			137			138			165

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	24	0	12	14	0	7	30	0	15	33	0	17	17	0	9
AVG top ht Kft			7.9			9.0			7.1			7.4			8.2
AVG thickness Kft			.46			.30			.47			.55			.55
AVG trap freq GHz			.43			.63			.43			.35			.33
AVG lyr grd -N/Kft			61			62			60			60			60
AVG lyr base Kft			7.6			8.8			6.8			7.0			7.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	3	1	2	2	1	1	2	1	1	2	2	2
10 to 20 Feet	2	3	2	2	2	2	3	2	2	2	4	3	1	2	2
20 to 30 Feet	5	8	6	6	8	7	7	6	7	4	9	7	3	7	5
30 to 40 Feet	8	12	10	9	13	11	8	16	12	8	11	9	8	11	9
40 to 50 Feet	12	20	16	11	20	16	13	22	17	11	18	15	12	21	17
50 to 60 Feet	14	20	17	15	21	18	13	19	16	13	18	15	13	21	17
60 to 70 Feet	12	15	14	10	16	13	13	15	14	11	15	13	14	16	15
70 to 80 Feet	9	9	9	11	10	10	9	9	9	8	10	9	8	9	9
80 to 90 Feet	7	4	6	8	3	6	6	5	6	6	5	5	8	4	6
90 to 100 Feet	4	2	3	5	1	3	3	2	3	4	2	3	6	1	4
above 100 Feet	25	5	15	20	5	12	23	4	13	32	7	19	25	6	15
Mean height Feet	84	57	70	77	55	66	80	55	68	93	59	76	86	57	71

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			1			1
% occur 2+ EL dcts			3			2			5			2			2
AVG station N			378			386			380			369			376
AVG station -N/Kft			19			20			18			17			18
AVG sfc wind Kts	15	14	14	17	16	16	14	14	14	12	11	12	15	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 17 33 S 149 37 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91938 17 33 S 149 37 W
Radiosonde station height: 7 Feet
Surface obs source: MS15 5 00 N 145 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	2	0	1	2	0	1	1	0	0	2	0	1
1 GHz	29	5	17	26	5	15	28	4	16	34	7	20	29	6	17
3 GHz	41	11	26	39	9	24	38	11	25	44	14	29	44	11	27
6 GHz	73	55	64	73	55	64	71	53	62	74	57	66	76	56	66
10 GHz	92	88	90	91	88	90	90	90	90	92	86	89	94	88	91
20 GHz	97	96	96	96	96	96	96	97	97	97	95	96	97	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	0	5	12	0	6	11	0	6	5	0	3	8	0	4
AVG thickness Kft			.38			.33			.34			.33			.51
AVG trap freq GHz			.64			.68			.56			1.0			.32
AVG lyr grd -N/Kft			218			170			304			285			115

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	0	10	13	0	7	22	0	11	29	0	15	16	0	8
AVG top ht Kft			5.8			3.5			6.7			6.6			6.3
AVG thickness Kft			.56			.60			.52			.57			.53
AVG trap freq GHz			.31			.28			.37			.25			.34
AVG lyr grd -N/Kft			58			59			58			60			58
AVG lyr base Kft			5.3			3.0			6.3			6.2			5.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	3	1	2	2	1	1	2	1	1	2	2	2
10 to 20 Feet	2	3	2	2	2	2	3	2	2	2	4	3	1	2	2
20 to 30 Feet	5	8	6	6	8	7	7	6	7	4	9	7	3	7	5
30 to 40 Feet	8	12	10	9	13	11	8	16	12	8	11	9	8	11	9
40 to 50 Feet	12	20	16	11	20	16	13	22	17	11	18	15	12	21	17
50 to 60 Feet	14	20	17	15	21	18	13	19	16	13	18	15	13	21	17
60 to 70 Feet	12	15	14	10	16	13	13	15	14	11	15	13	14	16	15
70 to 80 Feet	9	9	9	11	10	10	9	9	9	8	10	9	8	9	9
80 to 90 Feet	7	4	6	8	3	6	6	5	6	6	5	5	8	4	6
90 to 100 Feet	4	2	3	5	1	3	3	2	3	4	2	3	6	1	4
above 100 Feet	25	5	15	20	5	12	23	4	13	32	7	19	25	6	15
Mean height Feet	84	57	70	77	55	66	88	55	68	93	59	76	86	57	71

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			2			3			1			1
% occur 2+ EL dcts			1			1			1			3			1
AVG station N			372			378			373			364			373
AVG station -N/Kft			16			16			16			15			16
AVG sfc wind Kts	15	14	14	17	16	16	14	14	14	12	11	12	15	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 14 19 S 170 43 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91765 14 19 S 170 43 W
Radiosonde station height: 16 Feet
Surface obs source: MS317 5 00 S 175 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	8	1	5	9	1	5	8	1	4	8	1	4	8	1	5
1 GHz	55	16	35	58	17	37	49	11	30	56	20	38	56	15	36
3 GHz	66	24	45	69	26	47	60	18	39	68	28	48	68	25	47
6 GHz	85	63	74	86	64	75	79	56	68	87	67	77	86	65	75
10 GHz	94	87	91	95	89	92	93	85	89	95	88	92	94	88	91
20 GHz	97	95	96	97	95	96	96	94	95	98	95	96	97	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	45	5	25	53	6	30	36	4	20	41	4	23	49	7	28
AVG thickness Kft			.35			.31			.33			.40			.34
AVG trap freq GHz			.43			.48			.32			.40			.51
AVG lyr grd -N/Kft			93			85			104			99			85

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	23	37	30	15	27	21	23	38	31	34	50	42	19	31	25
AVG top ht Kft			6.9			7.2			6.6			6.2			7.5
AVG thickness Kft			.45			.41			.44			.53			.44
AVG trap freq GHz			.34			.39			.37			.24			.38
AVG lyr grd -N/Kft			60			57			61			61			61
AVG lyr base Kft			6.5			6.8			6.3			5.8			7.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	3	2	2	2	1	2	2	2	2	3	1	2
10 to 20 Feet	3	4	3	3	4	3	4	5	4	2	3	3	2	4	3
20 to 30 Feet	5	8	6	4	6	5	6	10	8	4	7	5	5	8	7
30 to 40 Feet	7	10	8	7	9	8	8	12	10	6	9	7	7	11	9
40 to 50 Feet	10	15	13	11	17	14	13	17	15	8	14	11	9	14	11
50 to 60 Feet	12	18	15	13	17	15	12	18	15	10	18	14	11	18	15
60 to 70 Feet	9	13	11	9	13	11	9	13	11	9	12	11	8	13	11
70 to 80 Feet	8	10	9	8	10	9	7	8	8	10	10	10	8	11	10
80 to 90 Feet	6	5	6	6	6	6	6	5	5	7	5	6	6	6	6
90 to 100 Feet	4	3	3	3	3	3	4	2	3	5	3	4	5	3	4
above 100 Feet	34	12	23	34	13	24	30	8	19	38	17	28	35	11	23
Mean height Feet	94	66	80	94	68	81	88	60	74	99	72	86	95	64	79

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			2			4			7			4
% occur 2+ EL dcts			6			3			3			9			7
AVG station N			382			384			383			379			382
AVG station -N/Kft			18			19			18			18			19
AVG sfc wind Kts	10	9.0	9.4	11	10	10	8.5	8.3	8.4	10	9.4	10	10	8.8	9.2

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 17 45 S 177 27 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91680 17 45 S 177 27 E
Radiosonde station height: 62 Feet .
Surface obs source: MS354 15 00 S 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	1	0	1	1	0	0	1	0	0	1	0	0
1 GHz	32	9	21	30	9	20	37	11	24	32	6	19	29	9	19
3 GHz	45	18	32	39	16	28	52	21	37	50	18	34	40	18	29
6 GHz	76	65	71	72	61	67	80	70	75	80	68	74	73	60	67
10 GHz	92	90	91	90	87	88	92	93	92	92	92	92	92	87	89
20 GHz	95	96	95	95	92	93	96	97	96	95	97	96	95	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	0	4	10	0	5	5	0	3	5	0	3	8	0	4
AVG thickness Kft			.32			.23			.41			.40			.23
AVG trap freq GHz			1.1			1.5			1.0			.39			1.4
AVG lyr grd -N/Kft			137			155			138			132			121

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	19	0	9	6	0	3	23	0	12	28	0	14	17	0	9
AVG top ht Kft			6.7			6.7			6.9			6.3			6.8
AVG thickness Kft			.44			.49			.38			.48			.41
AVG trap freq GHz			.46			.47			.63			.31			.45
AVG lyr grd -N/Kft			57			59			54			59			57
AVG lyr base Kft			6.3			6.4			6.6			6.0			6.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	1	2	2	2	2	3	1	2	3	1	2	2	2	2
10 to 20 Feet	2	3	3	3	6	5	2	1	1	1	1	1	3	3	3
20 to 30 Feet	4	6	5	5	5	5	4	5	4	3	5	4	4	9	6
30 to 40 Feet	6	9	7	6	8	7	5	9	7	5	7	6	8	9	9
40 to 50 Feet	10	16	13	13	17	15	8	13	11	8	17	13	12	17	14
50 to 60 Feet	12	18	15	15	19	17	9	18	13	11	17	14	13	19	16
60 to 70 Feet	11	17	14	12	18	15	10	18	14	10	20	15	12	11	12
70 to 80 Feet	10	11	10	8	8	8	10	12	11	11	13	12	10	11	10
80 to 90 Feet	8	6	7	5	4	5	8	6	7	11	8	10	6	7	6
90 to 100 Feet	5	3	4	3	4	3	7	4	6	6	3	5	5	2	3
above 100 Feet	30	9	19	27	9	18	35	11	23	30	6	18	27	9	18
Mean height Feet	90	63	76	86	61	73	97	68	82	91	62	76	85	60	72

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			1			1			1
% occur 2+ EL dcts			1			0			2			0			1
AVG station N			364			376			362			356			361
AVG station -N/Kft			16			18			16			15			15
AVG sfc wind Kts	13	12	13	12	12	12	12	12	12	14	14	14	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 17 45 S 168 18 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91558 17 45 S 168 18 E
Radiosonde station height: 59 Feet
Surface obs source: MS355 15 00 S 165 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	1	0	1	1	0	0	2	0	1	3	0	1
1 GHz	37	8	22	38	9	23	36	8	22	32	7	19	42	7	24
3 GHz	50	17	33	48	16	32	51	18	34	46	18	32	56	15	36
6 GHz	81	62	71	81	60	70	82	65	73	79	66	72	82	56	69
10 GHz	93	88	91	93	89	91	94	88	91	91	91	91	93	85	89
20 GHz	96	95	95	96	95	96	96	94	95	95	97	96	96	92	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	0	7	14	0	7	7	0	4	12	0	6	24	0	12
AVG thickness Kft			.23			.14			.26			.26			.26
AVG trap freq GHz			1.9			3.8			1.7			.91			1.2
AVG lyr grd -N/Kft			220			353			257			135			137

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	52	0	26	42	0	21	51	0	26	66	0	33	48	0	24
AVG top ht Kft			6.8			7.4			6.4			6.3			7.3
AVG thickness Kft			.53			.46			.52			.68			.46
AVG trap freq GHz			.34			.49			.32			.18			.39
AVG lyr grd -N/Kft			64			64			61			66			64
AVG lyr base Kft			6.5			7.1			6.0			5.8			7.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	3	2	2	3	1	2	3	1	2	3	2	3
10 to 20 Feet	2	4	3	2	3	2	1	4	3	2	3	2	1	5	3
20 to 30 Feet	3	6	5	3	7	5	2	6	4	3	6	5	3	7	5
30 to 40 Feet	5	10	8	6	11	8	4	8	6	6	10	8	6	13	9
40 to 50 Feet	8	16	12	8	18	13	8	16	12	8	15	12	8	16	12
50 to 60 Feet	11	19	15	12	20	16	11	19	15	11	20	15	12	16	14
60 to 70 Feet	11	17	14	13	17	15	11	17	14	12	18	15	10	15	12
70 to 80 Feet	11	10	10	10	7	9	11	12	11	13	10	12	9	10	10
80 to 90 Feet	7	6	6	5	4	5	8	5	7	7	7	7	8	6	7
90 to 100 Feet	5	3	4	4	3	3	6	4	5	6	4	5	5	2	4
above 100 Feet	33	8	20	35	9	22	34	8	21	27	7	17	35	7	21
Mean height Feet	94	61	77	97	62	79	96	63	79	86	61	74	96	58	77

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			7			7			3			8			10
% occur 2+ EL dcts			11			12			12			1			9
AVG station N			372			380			373			360			373
AVG station -N/Kft			16			16			16			14			16
AVG sfc wind Kts	13	13	13	12	12	12	13	13	13	15	14	15	12	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 16 12 S 149 58 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94299 16 18 S 149 58 E
Radiosonde station height: 20 Feet
Surface obs source: MS356 15 00 S 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	0	1	1	0	1	1	0	1	4	0	2	5	0	2
1 GHz	42	8	25	43	9	26	34	8	21	41	8	24	52	8	30
3 GHz	57	17	37	55	17	36	51	18	35	58	18	38	65	16	40
6 GHz	84	63	74	82	59	71	83	66	74	86	67	76	88	62	75
10 GHz	95	89	92	94	87	91	95	90	92	95	91	93	96	89	92
20 GHz	97	95	96	97	94	95	97	96	97	97	96	97	98	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	18	0	9	12	0	6	6	0	3	24	0	12	30	0	15
AVG thickness Kft			.36			.24			.51			.31			.36
AVG trap freq GHz			.70			1.1			.53			.64			.58
AVG lyr grd -N/Kft			113			115			124			119			93

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	34	5	20	20	0	10	31	0	16	46	0	23	40	19	30
AVG top ht Kft			5.9			6.3			6.4			5.5			5.3
AVG thickness Kft			.50			.40			.49			.59			.53
AVG trap freq GHz			.31			.44			.34			.23			.24
AVG lyr grd -N/Kft			61			58			63			62			61
AVG lyr base Kft			5.5			6.2			6.0			5.1			4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	2	2	2	2	1	1	2	1	2	2	2	2
10 to 20 Feet	1	3	2	2	4	3	1	2	1	1	2	1	1	3	2
20 to 30 Feet	3	6	5	3	7	5	3	6	5	3	6	4	2	7	4
30 to 40 Feet	5	10	7	5	11	8	5	9	7	4	10	7	4	11	8
40 to 50 Feet	8	15	12	9	17	13	8	15	12	7	14	11	7	16	11
50 to 60 Feet	10	19	14	10	18	14	12	17	14	10	19	14	10	20	15
60 to 70 Feet	11	16	14	11	16	13	11	17	14	12	17	14	11	16	13
70 to 80 Feet	10	12	11	8	9	8	10	14	12	13	13	13	9	10	10
80 to 90 Feet	9	6	7	7	5	6	10	7	9	10	7	8	7	6	6
90 to 100 Feet	6	3	4	4	3	3	7	4	5	8	3	5	5	2	4
above 100 Feet	36	8	22	39	9	24	31	8	20	31	8	19	41	8	24
Mean height Feet	99	62	81	104	62	83	93	63	78	93	63	79	106	62	84

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			7			2			3			11			12
% occur 2+ EL dcts			4			2			3			5			5
AVG station N			359			371			335			350			360
AVG station -N/Kft			17			18			16			17			18
AVG sfc wind Kts	14	13	13	12	11	12	15	14	14	16	15	15	12	11	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 19 15 S 146 46 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94294 19 15 S 146 46 E
Radiosonde station height: 10 Feet
Surface obs source: MS356 15 00 S 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	1	0	1	0	0	0	0	0	0	1	1	1
1 GHz	37	9	23	43	9	26	33	8	20	31	8	20	42	12	27
3 GHz	52	18	35	55	17	36	50	18	34	49	18	33	55	20	37
6 GHz	82	64	73	82	59	70	82	66	74	82	67	75	84	64	74
10 GHz	94	89	92	94	87	90	95	90	92	94	91	92	94	89	92
20 GHz	97	95	96	97	94	95	97	96	97	96	96	96	97	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	2	4	12	0	6	4	0	2	2	0	1	4	6	5
AVG thickness Kft			.35			.20			.28			.48			.46
AVG trap freq GHz			1.0			1.5			1.3			.65			.54
AVG lyr grd -N/Kft			130			130			133			109			149

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	26	1	13	17	0	9	25	0	13	29	0	15	31	4	18
AVG top ht Kft			5.9			6.8			6.8			5.3			4.6
AVG thickness Kft			.45			.44			.48			.40			.47
AVG trap freq GHz			.38			.38			.31			.45			.38
AVG lyr grd -N/Kft			60			60			59			62			59
AVG lyr base Kft			5.5			6.4			6.4			5.0			4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	2	2	2	2	1	1	2	1	2	2	2	2
10 to 20 Feet	1	3	2	2	4	3	1	2	1	1	2	1	1	3	2
20 to 30 Feet	3	6	5	3	7	5	3	6	5	3	6	4	2	7	4
30 to 40 Feet	5	10	7	5	11	8	5	9	7	4	10	7	4	11	8
40 to 50 Feet	8	15	12	9	17	13	8	15	12	7	14	11	7	16	11
50 to 60 Feet	10	19	14	10	18	14	12	17	14	10	19	14	10	20	15
60 to 70 Feet	11	16	14	11	16	13	11	17	14	12	17	14	11	16	13
70 to 80 Feet	10	12	11	8	9	8	10	14	12	13	13	13	9	10	10
80 to 90 Feet	9	6	7	7	5	6	10	7	9	10	7	8	7	6	6
90 to 100 Feet	6	3	4	4	3	3	7	4	5	8	3	5	5	2	4
above 100 Feet	36	8	22	39	9	24	31	8	20	31	8	19	41	8	24
Mean height Feet	99	62	81	104	62	82	93	63	78	93	63	78	106	62	84

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			3			1			1			1
% occur 2+ EL dcts			2			3			2			1			3
AVG station N			347			363			340			335			350
AVG station -N/Kft			14			16			13			13			14
AVG sfc wind Kts	14	13	13	12	11	12	15	14	14	16	15	15	12	11	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 12 25 S 130 52 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94120 12 25 S 130 52 E
Radiosonde station height: 95 Feet
Surface obs source: MS322 5 00 S 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	1	0	1	3	0	1	2	0	1	2	0	1
1 GHz	45	13	29	38	11	24	47	15	31	47	13	30	49	15	32
3 GHz	55	22	39	49	21	35	53	24	41	58	22	40	56	26	38
6 GHz	81	63	72	77	66	71	83	66	75	85	63	74	80	55	67
10 GHz	94	87	90	92	88	90	95	92	94	95	87	91	92	81	86
20 GHz	98	95	96	97	96	97	99	96	97	98	96	97	97	91	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	0	7	12	0	6	17	0	9	14	0	7	13	0	7
AVG thickness Kft			.28			.17			.31			.43			.23
AVG trap freq GHz			.83			1.3			.59			.52			.88
AVG lyr grd -N/Kft			115			115			107			133			107

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	0	11	9	0	5	30	0	15	23	0	12	23	0	12
AVG top ht Kft			6.0			7.2			6.4			5.5			5.1
AVG thickness Kft			.40			.34			.37			.35			.56
AVG trap freq GHz			.66			1.2			.50			.65			.34
AVG lyr grd -N/Kft			60			66			58			59			57
AVG lyr base Kft			5.7			6.9			6.1			5.2			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	1	1	1	0	1	1	0	0	0	1	0	1	1	1	1
10 to 20 Feet	2	5	3	3	4	3	2	3	2	1	4	3	2	7	5
20 to 30 Feet	5	8	6	6	8	7	4	4	4	3	8	6	6	10	8
30 to 40 Feet	6	10	8	7	8	8	6	11	8	4	11	7	6	11	8
40 to 50 Feet	8	14	11	10	13	12	8	15	12	8	14	11	8	15	11
50 to 60 Feet	11	18	15	12	19	16	11	17	14	12	17	15	10	18	14
60 to 70 Feet	9	13	11	10	15	13	10	14	12	9	14	11	9	11	10
70 to 80 Feet	8	10	9	7	11	9	9	11	10	10	9	10	6	7	6
80 to 90 Feet	5	5	5	7	7	7	6	6	6	6	6	6	4	3	3
90 to 100 Feet	4	3	3	4	3	4	4	4	4	5	3	4	2	2	2
above 100 Feet	41	13	27	34	11	23	41	15	28	42	13	27	46	15	30
Mean height Feet	104	67	86	95	66	80	103	70	86	107	66	86	111	67	89

GENERAL METEOPOLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SR dcts			3			1			5			3			3
% occur 2* EL dcts			2			1			2			2			3
AVG station N			364			380			356			347			372
AVG station -N/Kft			18			20			17			17			19
AVG sfc wind Kts	11	10	10	11	10	11	12	11	11	13	11	12	8.1	7.4	7.7

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 17 57 S 122 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94203 17 57 S 122 13 E
Radiosonde station height: 39 Feet
Surface obs source: MS360 15 00 S 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	7	0	4	4	0	2	8	0	4	9	0	5	9	0	4
1 GHz	55	17	36	43	14	28	62	26	44	58	17	37	56	13	34
3 GHz	67	27	47	56	20	38	72	39	55	71	28	50	67	20	43
6 GHz	87	65	76	81	58	70	89	76	82	89	66	78	87	60	73
10 GHz	95	88	91	93	83	88	97	91	94	96	88	92	96	89	92
20 GHz	98	94	96	96	91	94	98	96	97	98	95	97	98	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	34	0	17	25	0	13	34	0	17	39	0	20	38	0	19
AVG thickness Kft			.53			.46			.45			.48			.73
AVG trap freq GHz			.38			.62			.30			.30			.30
AVG lyr grd -N/Kft			104			122			99			97			99

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	27	0	14	19	0	10	27	0	14	25	0	13	38	0	19
AVG top ht Kft			4.0			3.8			5.3			4.4			2.5
AVG thickness Kft			.62			.70			.57			.44			.77
AVG trap freq GHz			.33			.19			.46			.49			.16
AVG lyr grd -N/Kft			61			69			60			56			61
AVG lyr base Kft			3.5			3.3			4.9			4.0			1.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	3	5	4	1	1	1	1	1	1	2	2	2
10 to 20 Feet	2	4	3	2	5	3	2	3	2	2	5	3	1	3	2
20 to 30 Feet	3	7	5	5	8	6	2	5	3	3	7	5	3	7	5
30 to 40 Feet	5	9	7	6	11	8	4	5	5	5	8	6	6	13	9
40 to 50 Feet	8	14	11	9	15	12	7	10	9	6	14	10	8	16	12
50 to 60 Feet	10	16	13	11	16	13	8	15	12	9	15	12	11	18	14
60 to 70 Feet	10	13	11	10	13	11	8	12	10	10	13	12	11	13	12
70 to 80 Feet	10	9	9	10	9	10	10	10	10	9	9	9	9	9	9
80 to 90 Feet	7	6	7	8	5	6	6	7	7	9	8	8	7	4	6
90 to 100 Feet	5	4	4	5	2	3	5	6	6	6	4	5	5	2	4
above 100 Feet	39	17	28	33	14	23	47	26	37	39	17	28	37	13	25
Mean height Feet	104	72	88	96	65	81	113	84	99	105	72	88	102	66	84

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			5			4			4			5			6
% occur 2+ EL dcts			3			2			3			3			5
AVG station N			357			377			346			339			367
AVG station -N/Kft			21			21			19			19			25
AVG sfc wind Kts	12	11	12	14	12	13	11	11	11	12	10	11	12	11	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 S 115 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94312 20 22 S 118 37 E
Radiosonde station height: 20 Feet
Surface obs source: MSS60 15 00 S 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	9	0	4	9	0	4	7	0	3	6	0	3	13	0	6
1 GHz	57	17	37	54	14	34	61	26	43	52	17	34	62	13	37
3 GHz	69	27	48	67	20	44	72	39	56	66	28	47	72	20	46
6 GHz	88	65	76	86	58	72	90	76	83	88	66	77	89	60	74
10 GHz	96	88	92	95	83	89	97	91	94	95	88	91	96	89	92
20 GHz	98	94	96	97	91	94	98	96	97	98	95	96	98	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	39	0	20	43	0	22	38	0	19	29	0	15	46	0	23
AVG thickness Kft			.48			.51			.40			.41			.59
AVG trap freq GHz			.36			.36			.46			.41			.22
AVG lyr grd -N/Kft			92			103			95			85			87

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	0	10	18	0	9	22	0	11	20	0	10	20	0	10
AVG top ht Kft			4.3			3.8			7.0			3.3			3.0
AVG thickness Kft			.42			.59			.24			.40			.44
AVG trap freq GHz			.60			.27			1.1			.47			.57
AVG lyr grd -N/Kft			60			63			59			57			61
AVG lyr base Kft			4.0			3.4			6.8			3.0			2.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	3	5	4	1	1	1	1	1	1	2	2	2
10 to 20 Feet	2	4	3	2	5	3	2	3	2	2	5	3	1	3	2
20 to 30 Feet	3	7	5	5	8	6	2	5	3	3	7	5	3	7	5
30 to 40 Feet	5	9	7	6	11	8	4	5	5	5	8	6	6	13	9
40 to 50 Feet	8	14	11	9	15	12	7	10	9	6	14	10	8	16	12
50 to 60 Feet	10	16	13	11	16	13	8	15	12	9	15	12	11	18	14
60 to 70 Feet	10	13	11	10	13	11	8	12	10	10	13	12	11	13	12
70 to 80 Feet	10	9	9	10	9	10	10	10	10	9	9	9	9	9	9
80 to 90 Feet	7	6	7	8	5	6	6	7	7	9	8	8	7	4	6
90 to 100 Feet	5	4	4	5	2	3	5	6	6	6	4	5	5	2	4
above 100 Feet	39	17	28	33	14	23	47	26	37	39	17	28	37	13	25
Mean height Feet	104	72	88	96	65	81	113	84	99	105	72	88	102	66	84

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SR dcts			4			4			6			3			3
% occur 2+ EL dcts			2			3			2			1			4
AVG station N			346			373			337			324			349
AVG station -N/Kft			19			23			16			16			22
AVG sfc wind Kts	12	11	12	14	12	13	11	11	11	12	10	11	12	11	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 S 105 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 96996 12 10 S 96 49 E
Radiosonde station height: 10 Feet
Surface obs source: MS361 15 00 S 105 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	1	0	1	0	0	0	1	0	0	1	0	0
1 GHz	35	14	24	37	15	26	33	16	25	30	12	21	38	12	25
3 GHz	48	25	37	49	24	36	48	30	39	46	26	36	51	22	37
6 GHz	81	72	77	80	69	74	80	75	78	82	75	79	83	70	76
10 GHz	94	93	93	94	91	92	93	93	93	94	94	94	94	94	94
20 GHz	97	96	96	96	95	95	97	97	97	98	98	98	96	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	0	2	6	0	3	3	0	2	3	0	2	6	0	3
AVG thickness Kft			.31			.36			.19			.45			.26
AVG trap freq GHz			.65			.53			1.2			.28			.64
AVG lyr grd -N/Kft			163			119			159			253			122

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	0	10	21	0	11	14	0	7	19	0	10	24	0	12
AVG top ht Kft			6.6			6.3			6.3			6.6			7.2
AVG thickness Kft			.43			.43			.46			.44			.41
AVG trap freq GHz			.36			.34			.36			.33			.43
AVG lyr grd -N/Kft			60			61			60			60			57
AVG lyr base Kft			6.3			6.0			6.0			6.3			6.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	4	2	3	2	1	2	1	1	1	2	2	2
10 to 20 Feet	1	2	2	2	3	2	1	2	2	1	1	1	1	3	2
20 to 30 Feet	3	3	3	3	4	3	4	4	4	3	4	4	3	2	2
30 to 40 Feet	5	7	6	6	9	8	6	6	6	6	6	6	4	8	6
40 to 50 Feet	8	13	11	8	13	11	8	12	10	7	13	10	8	15	12
50 to 60 Feet	11	17	14	11	16	14	11	16	14	10	17	14	12	19	16
60 to 70 Feet	12	17	15	12	17	14	11	16	14	14	18	16	12	17	14
70 to 80 Feet	11	13	12	10	11	11	11	13	12	13	14	14	9	12	10
80 to 90 Feet	9	7	8	7	6	6	9	8	9	9	9	9	8	6	7
90 to 100 Feet	5	4	5	4	3	4	5	5	5	7	6	6	5	3	4
above 100 Feet	33	14	23	35	15	25	32	16	24	28	12	20	36	12	24
Mean height Feet	96	71	84	98	71	84	95	74	84	89	70	80	101	70	86

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			0			1
% occur 2+ EL dcts			2			2			1			1			3
AVG station N			362			363			364			360			362
AVG station -N/Kft			16			16			16			16			16
AVG sfc wind Kts	13	13	13	12	11	12	14	13	13	15	14	15	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 12 10 S 96 49 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 96996 12 10 S 96 49 E
Radiosonde station height: 10 Feet
Surface obs source: MS362 15 00 S 95 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	1	0	1	0	0	0	1	0	0	1	0	0
1 GHz	30	10	20	29	12	20	34	10	22	26	7	16	30	11	20
3 GHz	45	21	33	42	23	32	50	21	36	45	20	32	43	21	32
6 GHz	79	69	74	76	68	72	81	69	75	82	71	77	78	68	73
10 GHz	93	91	92	92	92	92	94	91	92	95	91	93	92	90	91
20 GHz	97	96	97	96	97	96	96	97	97	99	96	97	96	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	0	2	6	0	3	3	0	2	3	0	2	6	0	3
AVG thickness Kft			.31			.36			.19			.45			.26
AVG trap freq GHz			.65			.53			1.2			.28			.64
AVG lyr grd -N/Kft			163			119			159			253			122

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	0	10	21	0	11	14	0	7	19	0	10	24	0	12
AVG top ht Kft			6.6			6.3			6.3			6.6			7.2
AVG thickness Kft			.43			.43			.46			.44			.41
AVG trap freq GHz			.36			.34			.36			.33			.43
AVG lyr grd -N/Kft			60			61			60			60			57
AVG lyr base Kft			6.3			6.0			6.0			6.3			6.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	1	2	1	1	3	1	2	1	1	1	1	1	1
10 to 20 Feet	2	3	2	2	2	2	1	2	2	1	3	2	2	4	3
20 to 30 Feet	4	5	4	4	5	4	3	6	4	4	5	4	5	5	5
30 to 40 Feet	6	8	7	6	11	8	5	8	6	6	6	6	6	9	8
40 to 50 Feet	9	14	11	12	13	12	8	14	11	8	15	11	9	13	11
50 to 60 Feet	12	18	15	15	18	17	9	18	14	13	17	15	12	17	14
60 to 70 Feet	12	17	15	11	17	14	12	16	14	13	20	16	13	16	14
70 to 80 Feet	11	13	12	10	11	10	10	14	12	13	14	14	12	13	13
80 to 90 Feet	8	7	8	7	6	6	8	7	8	11	9	10	6	8	7
90 to 100 Feet	7	4	5	5	5	5	7	4	6	8	4	6	6	3	4
above 100 Feet	28	10	19	26	12	19	33	10	22	24	7	15	28	11	19
Mean height Feet	88	66	77	88	68	78	94	66	80	84	63	74	87	67	77

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			0			1
% occur 2+ EL dcts			2			2			1			1			3
AVG station N			362			363			364			360			362
AVG station -N/Kft			16			16			16			16			16
AVG sfc wind Kts	15	15	15	13	13	13	16	16	16	18	17	17	15	14	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 S 45 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 63894 6 52 S 39 12 E
Radiosonde station height: 180 Feet
Surface obs source: MS367 15 00 S 45 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	1	1	2	1	1	1	0	1	2	1	1
1 GHz	43	13	28	42	14	28	43	13	28	38	12	25	49	13	31
3 GHz	54	21	37	51	21	36	57	24	41	49	20	34	58	20	39
6 GHz	80	57	68	76	57	66	86	67	76	78	53	65	80	52	66
10 GHz	93	84	88	91	83	87	96	88	92	92	83	88	92	82	87
20 GHz	96	92	94	95	92	94	98	93	96	96	92	94	96	91	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	7	9	11	10	11	16	6	11	4	3	4	16	9	13
AVG thickness Kft			.19			.10			.21			.28			.15
AVG trap freq GHz			1.4			1.8			1.3			.55			2.0
AVG lyr grd -N/Kft			215			155			319			185			200

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	13	10	9	7	8	6	9	8	11	15	13	6	19	13
AVG top ht Kft			6.1			4.8			5.9			7.9			5.9
AVG thickness Kft			.46			.50			.48			.42			.46
AVG trap freq GHz			.40			.30			.38			.51			.41
AVG lyr g t -N/Kft			61			61			58			64			59
AVG lyr b e Kft			5.8			4.5			5.5			7.6			5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	1	2	1	1	1	1	2	1	2	1	2
10 to 20 Feet	2	7	5	3	7	5	2	5	3	2	7	5	2	9	6
20 to 30 Feet	4	8	6	5	10	7	3	5	4	4	9	6	5	10	7
30 to 40 Feet	5	11	8	6	11	9	5	9	7	6	13	9	5	12	9
40 to 50 Feet	9	17	13	10	17	13	7	13	10	9	18	14	8	19	14
50 to 60 Feet	10	18	14	11	19	15	10	18	14	11	16	14	10	17	14
60 to 70 Feet	10	12	11	9	12	11	11	16	13	10	10	10	8	10	9
70 to 80 Feet	8	8	8	6	7	6	10	11	10	9	8	8	6	7	6
80 to 90 Feet	6	5	5	5	4	4	8	7	8	6	5	5	4	3	4
90 to 100 Feet	4	2	3	3	2	2	6	4	5	5	3	4	3	2	2
above 100 Feet	40	10	25	40	11	25	38	10	24	36	10	23	46	10	28
Mean height Feet	104	61	83	104	61	82	101	65	83	99	60	79	113	59	86

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			0			1
% occur 2+ EL dcts			0			0			0			1			1
AVG station N			370			379			372			357			372
AVG station -N/Kft			16			18			16			14			18
AVG sfc wind Kts	10	10	10	8.9	8.5	8.7	12	11	11	12	10	11	9.1	8.8	9.0

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 S 35 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 63894 6 52 S 39 12 E
Radiosonde station height: 180 Feet
Surface obs source: MS368 15 00 S 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	1	1	2	1	1	1	0	1	2	1	1
1 GHz	38	13	25	43	17	30	37	12	24	30	9	20	42	12	27
3 GHz	51	23	37	54	26	40	52	27	39	43	18	31	54	20	37
6 GHz	79	63	71	80	67	74	82	70	76	75	55	65	79	58	68
10 GHz	93	88	90	92	89	91	94	90	92	92	85	88	92	87	89
20 GHz	96	95	95	95	96	96	98	95	95	96	92	94	95	95	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	7	9	11	10	11	16	6	11	4	3	4	16	9	13
AVG thickness Kft			.19			.10			.21			.28			.15
AVG trap freq GHz			1.4			1.8			1.3			.55			2.0
AVG lyr grd -N/Kft			215			155			319			185			200

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	13	10	9	7	8	6	9	8	11	15	13	6	19	13
AVG top ht Kft			6.1			4.8			5.9			7.9			5.9
AVG thickness Kft			.46			.50			.48			.42			.46
AVG trap freq GHz			.40			.30			.38			.51			.41
AVG lyr grd -N/Kft			61			61			58			64			59
AVG lyr base Kft			5.8			4.5			5.5			7.6			5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	1	2	1	1	1	1	1	1	3	2	3
10 to 20 Feet	2	5	3	3	3	3	2	5	3	2	6	4	2	4	3
20 to 30 Feet	4	7	6	3	8	6	4	6	5	5	8	6	3	8	6
30 to 40 Feet	5	10	8	5	9	7	5	7	6	6	12	9	5	13	9
40 to 50 Feet	9	16	13	8	14	11	9	13	11	11	19	15	10	18	14
50 to 60 Feet	11	18	15	11	19	15	9	17	13	13	19	16	11	19	15
60 to 70 Feet	10	14	12	11	16	13	12	16	14	11	13	12	9	12	10
70 to 80 Feet	9	9	9	7	8	7	12	12	12	10	[illegible]	[illegible]	7	10	8
80 to 90 Feet	7	6	7	7	6	6	8	7	8	7	6	7	7	4	6
90 to 100 Feet	5	3	4	3	3	3	5	6	6	6	3	4	4	2	3
above 100 Feet	35	10	22	41	13	27	32	10	21	28	8	18	39	9	24
Mean height Feet	97	63	80	105	66	86	93	66	79	89	58	74	102	60	81

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			0			1
% occur 2+ EL dcts			0			0			0			1			1
AVG station N			370			379			372			357			372
AVG station -N/Kft			16			18			16			14			18
AVG sfc wind Kts	11	11	11	10	10	10	12	11	11	12	10	11	12	11	11

:REPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 S 15 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 66160 8 51 S 13 13 E
Radiosonde station height: 243 Feet
Surface obs source: MS370 15 00 S 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	2	0	1	1	0	0	1	0	1	2	0	1
1 GHz	20	8	14	25	9	17	16	6	11	17	7	12	23	7	15
3 GHz	24	9	17	30	12	21	20	8	14	20	8	14	27	9	18
6 GHz	39	22	30	50	34	42	37	22	29	28	13	21	40	18	29
10 GHz	67	57	62	78	73	75	71	62	66	53	40	46	69	53	61
20 GHz	83	77	80	89	87	88	86	80	83	75	66	71	83	74	79

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	0	6	15	0	8	9	0	5	9	0	5	15	0	8
AVG thickness Kft			.16			.22			.12			.17			.12
AVG trap freq GHz			1.3			1.6			1.5			.69			1.2
AVG lyr grd -N/Kft			169			235			130			182			127

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	23	19	6	17	12	23	33	28	20	42	31	7	0	4
AVG top ht Kft			4.0			4.6			2.7			4.5			4.4
AVG thickness Kft			.62			.61			.68			.51			.67
AVG trap freq GHz			.39			.54			.28			.38			.36
AVG lyr grd -N/Kft			57			52			55			58			63
AVG lyr base Kft			3.5			4.0			2.1			4.1			4.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	8	9	8	6	6	6	6	8	7	9	11	10	9	10	9
10 to 20 Feet	11	15	13	7	7	7	9	12	11	18	23	20	10	17	14
20 to 30 Feet	18	20	19	12	14	13	17	18	18	25	26	25	17	21	19
30 to 40 Feet	17	20	19	14	20	17	19	22	20	18	19	18	17	20	19
40 to 50 Feet	14	15	15	16	18	17	17	18	18	8	8	8	14	16	15
50 to 60 Feet	9	8	9	12	15	13	11	8	10	4	3	4	9	7	8
60 to 70 Feet	4	3	3	6	5	5	5	4	4	2	1	1	3	1	2
70 to 80 Feet	2	1	2	3	3	3	3	1	2	1	1	1	2	1	1
80 to 90 Feet	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1
90 to 100 Feet	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
above 100 Feet	16	8	12	20	9	15	13	6	10	13	7	10	17	7	12
Mean height Feet	57	43	50	68	52	60	55	43	49	47	37	42	58	41	49

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			0			2			2
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			361			368			365			350			361
AVG station -N/Kft			17			18			18			15			17
AVG sfc wind Kts	11	11	11	9.3	10	10	11	11	11	11	10	11	11	11	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 15 00 S 5 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 66160 8 51 S 13 13 E
Radioson e station height: 243 Feet
Surface obs source: MS371 15 00 S 5 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	2	0	1	1	0	0	1	0	1	2	0	1
1 GHz	34	9	21	39	11	25	43	11	27	25	5	15	31	8	20
3 GHz	44	13	28	47	17	32	55	17	36	33	8	21	39	11	25
6 GHz	73	50	61	74	56	65	84	60	72	69	43	56	65	40	53
10 GHz	93	87	90	92	89	90	96	91	94	92	86	89	90	83	86
20 GHz	97	96	96	96	95	96	98	97	98	96	96	96	96	94	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	0	6	15	0	8	9	0	5	9	0	5	15	0	8
AVG thickness Kft			.16			.22			.12			.17			.12
AVG trap freq GHz			1.3			1.6			1.5			.69			1.2
AVG lyr grd -M/Kft			169			235			130			182			127

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	23	19	6	17	12	23	33	28	20	42	31	7	0	4
AVG top ht Kft			4.0			4.6			2.7			4.5			4.4
AVG thickness Kft			.62			.61			.68			.51			.67
AVG trap freq GHz			.39			.54			.28			.38			.36
AVG lyr grd -M/Kft			57			52			55			58			63
AVG lyr base Kft			3.5			4.0			2.1			4.1			4.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	2	2	2	2	1	1	2	1	1	3	2	2
10 to 20 Feet	2	3	2	2	3	3	1	2	1	2	3	3	3	4	3
20 to 30 Feet	5	8	6	4	7	6	2	6	4	5	9	7	7	12	9
30 to 40 Feet	9	15	12	9	12	10	4	11	8	10	19	15	12	20	16
40 to 50 Feet	13	22	18	12	20	16	8	20	14	15	24	20	16	23	20
50 to 60 Feet	13	18	16	12	19	16	11	19	15	16	19	18	14	15	15
60 to 70 Feet	11	12	11	9	13	11	11	14	13	13	11	12	9	9	9
70 to 80 Feet	8	6	7	8	7	7	9	9	9	9	5	7	6	4	5
80 to 90 Feet	5	3	4	4	4	4	7	4	6	5	2	4	3	2	3
90 to 100 Feet	3	2	2	3	2	3	5	2	4	3	1	2	2	1	2
above 100 Feet	30	9	20	35	11	23	41	11	26	21	5	13	26	8	17
Mean height Feet	90	58	74	97	62	79	105	64	85	77	51	64	82	55	68

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			0			2			2
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			361			368			365			350			361
AVG station -M/Kft			17			18			18			15			17
AVG sfc wind Kts	13	12	13	12	11	12	13	12	13	15	14	15	13	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 20 30 S 29 19 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 83650 20 30 S 29 19 W
Radiosonde station height: 69 Feet
Surface obs source: MS375 25 00 S 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	10	0	5	20	0	10	*	*	*	2	0	1	9	0	4
1 GHz	56	9	32	84	11	47	*	*	*	30	7	19	53	7	30
3 GHz	66	14	40	95	19	57	*	*	*	40	14	27	63	10	36
6 GHz	82	47	65	99	55	77	*	*	*	68	42	55	80	42	61
10 GHz	93	81	87	100	86	93	*	*	*	87	77	82	91	79	85
20 GHz	96	92	94	100	95	97	*	*	*	93	89	91	95	91	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	0	21	100	0	50	0	0	0	15	0	8	50	0	25
AVG thickness Kft			.46			.52			*			.44			.43
AVG trap freq GHz			.69			.38			*			1.2			.48
AVG lyr grd -N/Kft			87			70			*			122			70

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	0	7	15	0	8	10	0	5	19	0	10	13	0	7
AVG top ht Kft			7.6			11			7.1			7.0			5.7
AVG thickness Kft			.53			.87			.37			.55			.34
AVG trap freq GHz			.43			.10			.60			.33			.71
AVG lyr grd -N/Kft			67			96			60			59			54
AVG lyr base Kft			7.2			10			6.8			6.5			5.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	4	4	4	2	2	2	2	2	2	4	6	5	6	6	6
10 to 20 Feet	3	4	4	2	4	3	3	4	3	3	5	4	4	4	4
20 to 30 Feet	6	10	8	4	8	6	5	7	6	7	12	10	7	11	9
30 to 40 Feet	8	16	12	6	14	10	7	14	11	9	18	14	10	19	14
40 to 50 Feet	10	18	14	8	17	13	10	19	14	12	17	14	11	18	14
50 to 60 Feet	12	17	14	10	18	14	13	19	16	12	13	13	12	17	14
60 to 70 Feet	10	11	10	9	11	10	12	14	13	9	9	9	10	10	10
70 to 80 Feet	8	7	7	8	8	8	10	7	9	8	6	7	7	6	6
80 to 90 Feet	5	4	4	4	6	5	5	5	5	5	4	4	4	2	3
90 to 100 Feet	4	2	3	5	2	4	5	3	4	4	3	4	2	1	2
above 100 Feet	31	8	19	41	11	26	29	6	17	24	7	16	29	7	18
Mean height Feet	89	57	73	104	64	84	89	57	73	79	53	66	85	53	69

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			3			0			0			5
% occur 2+ EL dcts			0			0			0			2			0
AVG station N			366			374			364			351			375
AVG station -N/Kft			19			21			17			17			21
AVG sfc wind Kts	12	12	12	11	11	11	11	10	11	13	12	12	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 S 35 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 83650 20 30 S 29 19 W
Radiosonde station height: 69 Feet
Surface obs source: MS375 25 00 S 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	10	0	5	20	0	10	*	*	*	2	0	1	9	0	4
1 GHz	56	9	32	84	11	47	*	*	*	30	7	19	53	7	30
3 GHz	66	14	40	95	19	57	*	*	*	40	14	27	63	10	36
6 GHz	82	47	65	99	55	77	*	*	*	68	42	55	80	42	61
10 GHz	93	81	87	100	86	93	*	*	*	87	77	82	91	79	85
20 GHz	96	92	94	100	95	97	*	*	*	93	89	91	95	91	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	41	0	21	100	0	50	0	0	0	15	0	8	50	0	25
AVG thickness Kft			.46			.52			*			.44			.43
AVG trap freq GHz			.69			.38			*			1.2			.48
AVG lyr grd -N/Kft			87			70			*			122			70

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	0	7	15	0	8	10	0	5	19	0	10	13	0	7
AVG top ht Kft			7.6			11			7.1			7.0			5.7
AVG thickness Kft			.53			.87			.37			.55			.34
AVG trap freq GHz			.43			.10			.60			.33			.71
AVG lyr grd -N/Kft			67			96			60			59			54
AVG lyr base Kft			7.2			10			6.8			6.5			5.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	4	4	4	2	2	2	2	2	2	4	6	5	6	6	6
10 to 20 Feet	3	4	4	2	4	3	3	4	3	3	5	4	4	4	4
20 to 30 Feet	6	10	8	4	8	6	5	7	6	7	12	10	7	11	9
30 to 40 Feet	8	16	12	6	14	10	7	14	11	9	18	14	10	19	14
40 to 50 Feet	10	18	14	8	17	13	10	19	14	12	17	14	11	18	14
50 to 60 Feet	12	17	14	10	18	14	13	19	16	12	13	13	12	17	14
60 to 70 Feet	10	11	10	9	11	10	12	14	13	9	9	9	10	10	10
70 to 80 Feet	8	7	7	8	8	8	10	7	9	8	6	7	7	6	6
80 to 90 Feet	5	4	4	4	6	5	5	5	5	5	4	4	4	2	3
90 to 100 Feet	4	2	3	5	2	4	5	3	4	4	3	4	2	1	2
above 100 Feet	31	8	19	41	11	26	29	6	17	24	7	16	29	7	18
Mean height Feet	89	57	73	104	64	84	89	57	73	79	53	66	85	53	69

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			3			0			0			5
% occur 2+ EL dcts			0			0			0			2			0
AVG station N			366			374			354			351			375
AVG station -N/Kft			19			21			17			17			21
AVG sfc wind Kts	12	12	12	11	11	11	11	10	11	13	12	12	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 22 49 S 43 15 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 83746 22 49 S 43 15 W
Radiosonde station height: 138 Feet
Surface obs source: MS376 25 00 S 45 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	2	2	3	3	3	2	3	2	2	2	2	2	1	2
1 GHz	34	17	26	43	22	33	32	20	26	27	14	21	36	13	24
3 GHz	41	23	32	51	29	40	40	26	33	33	19	26	42	18	30
6 GHz	62	46	54	68	53	60	64	50	57	54	40	47	61	41	51
10 GHz	79	73	76	82	77	79	84	77	81	74	69	71	77	71	74
20 GHz	86	85	85	87	87	87	91	88	89	83	82	82	83	82	83

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	12	14	22	19	21	12	15	14	10	8	9	16	6	11
AVG thickness Kft			.34			.28			.39			.38			.31
AVG trap freq GHz			.55			.63			.47			.43			.69
AVG lyr grd -N/Kft			105			88			121			121			88

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	38	29	19	39	29	28	38	33	23	39	31	12	36	24
AVG top ht Kft			7.2			8.0			7.4			6.8			6.7
AVG thickness Kft			.45			.52			.43			.41			.44
AVG trap freq GHz			.38			.32			.38			.39			.44
AVG lyr grd -N/Kft			58			58			57			57			60
AVG lyr base Kft			6.9			7.6			7.0			6.5			6.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	11	9	10	12	9	10	7	5	6	13	12	12	13	10	12
10 to 20 Feet	5	8	7	4	7	5	4	9	6	7	8	7	6	9	7
20 to 30 Feet	8	13	10	7	12	9	8	12	10	9	15	12	8	13	10
30 to 40 Feet	10	15	12	8	13	11	10	14	12	11	16	14	9	17	13
40 to 50 Feet	10	16	13	8	16	12	13	17	15	11	15	13	9	14	12
50 to 60 Feet	9	12	11	7	12	9	11	13	12	10	11	10	9	12	10
60 to 70 Feet	8	8	8	8	9	8	8	9	9	7	6	7	7	7	7
70 to 80 Feet	6	5	5	5	6	6	6	5	6	6	4	5	5	5	5
80 to 90 Feet	4	3	3	4	2	3	5	3	4	3	3	3	3	2	3
90 to 100 Feet	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2
above 100 Feet	28	10	19	34	12	23	26	11	18	22	9	15	29	10	19
Mean height Feet	78	53	66	88	57	72	79	56	67	68	49	58	78	51	65

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			2			1			2			2
% occur 2+ EL dcts			4			4			5			2			5
AVG station N			365			377			366			356			362
AVG station -N/Kft			18			19			19			17			17
AVG sfc wind Kts	11	11	11	10	10	10	11	10	10	12	12	12	12	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 23 25 S 70 28 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 85442 23 25 S 70 28 W
Radiosonde station height: 400 Feet
Surface obs source: MS379 25 00 S 75 00 W

PERCENT OCCURRENCE OF ENHANCED SUFFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	1	1	1	0	1	1	0	1	0	0	0
1 GHz	26	13	19	33	20	26	21	9	15	18	6	12	32	16	24
3 GHz	30	17	24	38	26	32	25	13	19	22	9	15	36	20	28
6 GHz	49	36	43	62	54	58	43	30	37	40	24	32	51	36	44
10 GHz	78	73	75	87	83	85	78	73	76	70	64	67	75	73	74
20 GHz	88	88	88	93	92	93	90	87	89	83	83	83	86	87	86

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	5	6	9	8	9	6	3	5	7	4	6	4	3	4
AVG thickness Kft			.30			.32			.26			.26			.36
AVG trap freq GHz			.94			.64			.81			1.3			1.1
AVG lyr grd -N/Kft			136			116			128			129			170

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	46	56	51	36	50	43	51	57	54	47	62	55	50	53	52
AVG top ht Kft			3.5			4.2			3.2			2.9			3.5
AVG thickness Kft			.78			.63			.80			.86			.82
AVG trap freq GHz			.12			.19			.11			.08			.10
AVG lyr grd -N/Kft			78			63			73			96			80
AVG lyr base Kft			3.0			3.7			2.7			2.5			3.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	4	5	4	4	4	4	5	4	6	5	5	6	5	5
10 to 20 Feet	8	8	8	4	5	4	7	8	7	11	12	12	8	8	8
20 to 30 Feet	11	15	13	7	10	8	12	15	14	14	20	17	11	15	13
30 to 40 Feet	15	21	18	13	15	14	18	23	20	19	25	22	12	22	17
40 to 50 Feet	15	17	16	15	16	16	20	21	20	13	15	14	12	16	14
50 to 60 Feet	10	12	11	11	16	14	11	11	11	9	10	10	8	10	9
60 to 70 Feet	5	5	5	7	9	8	5	5	5	6	3	4	4	4	4
70 to 80 Feet	4	3	4	6	5	6	3	2	2	4	3	3	4	3	3
80 to 90 Feet	2	2	2	3	3	3	2	1	1	2	1	2	2	2	2
90 to 100 Feet	1	1	1	2	2	2	1	2	2	1	0	1	1	1	1
above 100 Feet	23	11	17	29	16	22	18	8	13	15	5	10	31	14	23
Mean height Feet	73	54	63	84	66	75	65	50	57	59	42	50	83	58	70

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			1			1
% occur 2+ EL dcts			4			4			5			2			4
AVG station H			335			342			334			328			336
AVG station -N/Kft			20			16			21			22			20
AVG sfc wind Kts	11	12	11	11	11	11	11	11	11	14	14	14	10	11	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 S 75 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 85442 23 25 S 70 28 W
Radiosonde station height: 400 Feet
Surface obs source: MS379 25 00 S 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	1	1	1	0	1	1	0	1	0	0	0
1 GHz	26	13	19	33	20	26	21	9	15	18	6	12	32	16	24
3 GHz	30	17	24	38	26	32	25	13	19	22	9	15	36	20	28
6 GHz	49	36	43	62	54	58	43	30	37	40	24	32	51	36	44
10 GHz	78	73	75	87	83	85	78	73	76	70	64	67	75	73	74
20 GHz	88	88	88	93	92	93	90	87	89	83	83	83	86	87	86

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	5	6	9	8	9	6	3	5	7	4	6	4	3	4
AVG thickness Kft			.30			.32			.26			.26			.36
AVG trap freq GHz			.94			.64			.81			1.3			1.1
AVG lyr grd -N/Kft			136			116			128			129			170

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	46	56	51	36	50	43	51	57	54	47	62	55	50	53	52
AVG top ht Kft			3.5			4.2			3.2			2.9			3.5
AVG thickness Kft			.78			.63			.80			.86			.82
AVG trap freq GHz			.12			.19			.11			.08			.10
AVG lyr grd -N/Kft			78			63			73			96			80
AVG lyr base Kft			3.0			3.7			2.7			2.5			3.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	4	5	4	4	4	4	5	4	6	5	5	6	5	5
10 to 20 Feet	8	8	8	4	5	4	7	8	7	11	12	12	8	8	8
20 to 30 Feet	11	15	13	7	10	8	12	15	14	14	20	17	11	15	13
30 to 40 Feet	15	21	18	13	15	14	18	23	20	19	25	22	12	22	17
40 to 50 Feet	15	17	16	15	16	16	20	21	20	13	15	14	12	16	14
50 to 60 Feet	10	12	11	11	16	14	11	11	11	9	10	10	8	10	9
60 to 70 Feet	5	5	5	7	9	8	5	5	5	6	3	4	4	4	4
70 to 80 Feet	4	3	4	6	5	6	3	2	2	4	3	3	4	3	3
80 to 90 Feet	2	2	2	3	3	3	2	1	1	2	1	2	2	2	2
90 to 100 Feet	1	1	1	2	2	2	1	2	2	1	0	1	1	1	1
above 100 Feet	23	11	17	29	16	22	18	8	13	15	5	10	31	14	23
Mean height Feet	73	54	63	84	66	75	65	50	57	59	42	50	83	58	70

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			1			1
% occur 2+ EL dcts			4			4			5			2			4
AVG station H			335			342			334			328			336
AVG station -N/Kft			20			16			21			22			20
AVG sfc wind Kts	11	12	11	11	11	11	11	11	11	14	14	14	10	11	11

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 27 10 S 109 25 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 85469 27 10 S 109 25 W
Radiosonde station height: 135 Feet
Surface obs source: MS309 5 00 S 95 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	2	0	1	1	0	0	0	1	0	0	1	0
1 GHz	31	11	21	34	10	22	38	13	26	24	8	16	27	11	19
3 GHz	39	15	27	41	14	27	49	18	34	33	13	23	33	15	24
6 GHz	62	42	52	61	38	50	73	51	62	58	41	49	54	38	46
10 GHz	83	76	79	82	72	77	88	80	84	82	75	78	79	77	78
20 GHz	90	89	90	91	86	88	92	90	91	90	88	89	88	90	89

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	3	4	17	0	9	3	1	2	0	6	3	0	5	3
AVG thickness Kft			.37			.37			.24			.35			.52
AVG trap freq GHz			1.1			1.8			.54			1.0			.91
AVG lyr grd -N/Kft			186			155			138			261			189

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	52	61	57	46	67	57	53	55	54	60	58	59	49	64	57
AVG top ht Kft			6.7			7.7			6.4			6.0			6.8
AVG thickness Kft			.48			.44			.48			.52			.49
AVG trap freq GHz			.30			.36			.26			.26			.30
AVG lyr grd -N/Kft			63			60			67			61			63
AVG lyr base Kft			6.4			7.4			6.1			5.6			6.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	5	5	5	5	5	5	5	5	5	6	5	5	5	5
10 to 20 Feet	5	7	6	6	9	8	4	6	5	5	7	6	7	7	7
20 to 30 Feet	8	13	11	11	14	12	4	11	7	8	14	11	9	14	12
30 to 40 Feet	11	17	14	12	16	14	6	13	10	12	18	15	13	20	16
40 to 50 Feet	11	18	14	11	17	14	8	16	12	13	18	15	12	21	16
50 to 60 Feet	10	14	12	10	13	12	9	14	12	10	14	12	11	13	12
60 to 70 Feet	7	9	8	6	8	7	8	11	10	8	9	9	7	7	7
70 to 80 Feet	6	5	5	5	4	4	8	7	7	6	6	6	4	4	4
80 to 90 Feet	5	2	4	3	2	2	6	4	5	6	2	4	3	2	2
90 to 100 Feet	3	1	2	2	1	2	4	2	3	4	1	2	2	1	2
above 100 Feet	29	9	19	29	10	20	37	12	25	24	6	15	27	9	18
Mean height Feet	84	53	68	83	53	68	96	60	78	76	48	62	80	51	66

GENERAL METEOPOLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			3			1			4			2
% occur 2+ EL dcts			9			9			11			5			13
AVG station N			346			352			346			339			348
AVG station -N/Kft			14			16			14			13			15
AVG sfc wind Kts	11	10	11	9.3	8.3	9.1	12	11	11	13	12	12	10	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 23 06 S 134 52 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91948 23 06 S 134 52 W
Radiosonde station height: 33 Feet
Surface obs source: MS14 5 00 N 135 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	1	0	0	1	0	0	*	*	*	1	0	1
1 GHz	31	4	17	28	5	16	30	3	16	*	*	*	34	4	19
3 GHz	40	8	24	38	9	23	38	7	22	*	*	*	45	8	26
6 GHz	72	49	61	72	53	62	69	46	57	*	*	*	75	49	62
10 GHz	90	87	88	91	87	89	88	85	87	*	*	*	91	88	89
20 GHz	96	95	95	96	95	95	95	94	94	*	*	*	97	96	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	0	3	9	0	5	4	0	2	0	0	0	9	0	5
AVG thickness Kft			.40			.35			.45			*			.40
AVG trap freq GHz			1.7			3.5			1.0			*			.65
AVG lyr grd -N/Kft			159			119			193			*			164

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	0	11	18	0	9	24	0	12	23	0	12	19	0	10
AVG top ht Kft			6.5			6.3			6.2			5.9			7.6
AVG thickness Kft			.42			.43			.35			.46			.45
AVG trap freq GHz			.50			.45			.76			.37			.40
AVG lyr grd -N/Kft			58			57			54			59			62
AVG lyr base Kft			6.2			5.9			5.9			5.5			7.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	1	2	3	1	2	3	2	2	3	1	2	3	1	2
10 to 20 Feet	2	3	3	2	3	3	3	5	4	2	3	2	1	3	2
20 to 30 Feet	6	7	7	6	8	7	7	8	7	5	5	5	6	8	7
30 to 40 Feet	8	15	12	7	16	11	9	16	13	7	14	11	8	16	12
40 to 50 Feet	11	21	16	13	18	16	11	24	17	9	19	14	10	22	16
50 to 60 Feet	12	22	17	15	24	19	13	22	17	10	21	16	12	21	16
60 to 70 Feet	11	13	12	12	14	13	11	10	11	10	15	12	10	13	11
70 to 80 Feet	9	7	8	9	7	8	8	6	7	8	9	8	10	8	9
80 to 90 Feet	6	3	5	6	3	4	5	3	4	7	4	5	7	2	5
90 to 100 Feet	3	1	2	4	1	2	2	1	2	4	1	2	4	1	2
above 100 Feet	30	5	18	26	5	15	28	3	16	37	8	22	30	4	17
Mean height Feet	89	55	72	82	55	68	87	50	69	98	60	79	89	54	71

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			1			0			0			1
% occur 2+ EL dcts			1			2			0			0			1
AVG station N			367			383			366			351			368
AVG station -N/Kft			17			20			16			15			18
AVG sfc wind Kts	14	13	13	15	15	15	13	12	13	13	12	12	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 27 37 S 144 19 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91958 27 37 S 144 19 W
Radiosonde station height: 3 Feet
Surface obs source: MS15 5 00 N 145 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
1 GHz	26	5	16	23	5	14	23	4	14	33	7	20	26	6	16
3 GHz	38	11	24	36	9	22	33	11	22	43	14	28	40	11	25
6 GHz	72	55	64	71	55	63	68	53	61	74	57	65	74	56	65
10 GHz	91	88	90	91	88	89	89	90	90	92	86	89	94	88	91
20 GHz	96	96	96	96	96	96	96	97	97	96	95	96	97	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	0	2	6	0	3	3	0	2	2	0	1	3	0	2
AVG thickness Kft			.42			.51			.28			.54			.37
AVG trap freq GHz			1.2			.76			1.9			.52			1.5
AVG lyr grd -N/Kft			212			143			294			170			243

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	0	11	18	0	9	24	0	12	22	0	11	21	0	11
AVG top ht Kft			5.5			5.4			5.7			5.3			5.5
AVG thickness Kft			.51			.59			.48			.51			.46
AVG trap freq GHz			.35			.32			.39			.26			.43
AVG lyr grd -N/Kft			58			56			59			61			56
AVG lyr base Kft			5.1			5.0			5.3			4.9			5.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	1	2	3	1	2	2	1	1	2	1	1	2	2	2
10 to 20 Feet	2	3	2	2	2	2	3	2	2	2	4	3	1	2	2
20 to 30 Feet	5	8	6	6	8	7	7	6	7	4	9	7	3	7	5
30 to 40 Feet	8	12	10	9	13	11	8	16	12	8	11	9	8	11	9
40 to 50 Feet	12	20	16	11	20	16	13	22	17	11	18	15	12	21	17
50 to 60 Feet	14	20	17	15	21	18	13	19	16	13	18	15	13	21	17
60 to 70 Feet	12	15	14	10	16	13	13	15	14	11	15	13	14	16	15
70 to 80 Feet	9	9	9	11	10	10	9	9	9	8	10	9	8	9	9
80 to 90 Feet	7	4	6	8	3	6	6	5	6	6	5	5	8	4	6
90 to 100 Feet	4	2	3	5	1	3	3	2	3	4	2	3	6	1	4
above 100 Feet	25	5	15	20	5	12	23	4	13	32	7	19	25	6	15
Mean height Feet	84	57	70	77	55	66	80	55	68	93	59	76	86	57	71

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			2			0			0			1
% occur 2+ EL dcts			1			1			1			0			0
AVG station H			355			372			352			342			353
AVG station -H/Kft			15			16			14			13			15
AVG sfc wind Kts	15	14	14	17	16	16	14	14	14	12	11	12	15	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 21 12 S 159 49 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91843 21 12 S 159 49 W
Radiosonde station height: 23 Feet
Surface obs source: MS317 5 00 S 175 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	6	2	4	*	*	*	7	3	5	3	2	3	8	0	4
1 GHz	49	19	34	*	*	*	50	20	35	45	25	35	54	11	32
3 GHz	61	28	44	*	*	*	62	29	45	57	34	45	64	20	42
6 GHz	82	65	73	*	*	*	81	63	72	82	70	76	83	62	73
10 GHz	93	88	91	*	*	*	93	87	90	93	90	91	93	87	90
20 GHz	97	95	96	*	*	*	97	95	96	97	95	96	96	95	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	33	11	22	*	*	*	45	20	33	18	14	16	36	0	18
AVG thickness Kft			.38			*			.28			.43			.41
AVG trap freq GHz			.48			*			.53			.56			.30
AVG lyr grd -N/Kft			89			*			97			93			76

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	44	36	40	*	*	*	60	62	61	41	46	44	31	0	16
AVG top ht Kft			5.6			*			5.6			5.5			5.7
AVG thickness Kft			.59			*			.81			.59			.38
AVG trap freq GHz			.37			*			.11			.30			.71
AVG lyr grd -N/Kft			67			*			71			71			59
AVG lyr base Kft			5.2			*			5.1			5.2			5.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	3	2	2	2	1	2	2	2	2	3	1	2
10 to 20 Feet	3	4	3	3	4	3	4	5	4	2	3	3	2	4	3
20 to 30 Feet	5	8	6	4	6	5	6	10	8	4	7	5	5	8	7
30 to 40 Feet	7	10	8	7	9	8	8	12	10	6	9	7	7	11	9
40 to 50 Feet	10	15	13	11	17	14	13	17	15	8	14	11	9	14	11
50 to 60 Feet	12	18	15	13	17	15	12	18	15	10	18	14	11	18	15
60 to 70 Feet	9	13	11	9	13	11	9	13	11	9	12	11	8	13	11
70 to 80 Feet	8	10	9	8	10	9	7	9	8	10	10	10	8	11	10
80 to 90 Feet	6	5	6	6	6	6	6	5	5	7	5	6	6	6	6
90 to 100 Feet	4	3	3	3	3	3	4	2	3	5	3	4	5	3	4
above 100 Feet	34	12	23	34	13	24	30	8	19	38	17	28	35	11	23
Mean height Feet	94	66	80	94	68	81	88	60	74	99	72	96	95	64	79

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			6			0			7			4			12
% occur 2+ EL dcts			1			0			1			4			0
AVG station N			364			*			354			361			378
AVG station -N/Kft			18			*			16			17			20
AVG sfc wind Kts	10	9.0	9.4	11	10	10	8.5	8.3	8.4	10	9.4	10	10	8.8	9.2

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 29 15 S 177 55 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 93997 29 15 S 177 55 W
Radiosonde station height: 151 Feet
Surface obs source: MS426 35 00 S 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
100 MHz	1	0	0	1	0	1	0	0	0	1	0	0	1	0	1
1 GHz	19	6	13	25	9	17	16	7	11	15	4	10	22	6	14
3 GHz	25	8	16	31	11	21	22	9	16	19	5	12	27	7	17
6 GHz	45	25	35	51	30	40	46	31	39	38	20	29	44	21	33
10 GHz	68	57	63	71	59	65	70	62	66	66	55	61	66	51	58
20 GHz	78	71	75	80	72	76	80	73	77	78	73	75	76	66	71

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	6	0	3	8	0	4	4	0	2	5	0	3	6	0	3
AVG thickness Kft			.35			.29			.33			.37			.39
AVG trap freq GHz			.68			.64			1.1			.52			.46
AVG lyr grd -N/Kft			105			105			126			88			99

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
Percent occurrence	22	4	13	27	0	14	20	0	10	15	0	8	25	14	20
AVG top ht Kft			5.6			5.9			5.6			5.5			5.3
AVG thickness Kft			.41			.50			.38			.38			.39
AVG trap freq GHz			.48			.34			.52			.61			.47
AVG lyr grd -N/Kft			58			59			58			58			58
AVG lyr base Kft			5.2			5.5			5.3			5.2			5.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
0 to 10 Feet	16	19	17	17	20	19	15	19	17	14	15	14	17	20	19
10 to 20 Feet	7	10	9	6	8	7	5	8	7	10	12	11	8	13	10
20 to 30 Feet	11	14	12	9	12	11	11	11	11	12	18	15	11	15	13
30 to 40 Feet	12	17	15	11	16	13	13	15	14	15	19	17	11	17	14
40 to 50 Feet	12	15	13	11	14	12	12	16	14	14	16	15	12	12	12
50 to 60 Feet	9	10	10	9	11	10	10	12	11	10	10	10	9	8	9
60 to 70 Feet	7	5	6	7	5	6	9	6	8	6	4	5	6	3	5
70 to 80 Feet	4	3	4	5	3	4	6	4	5	4	2	3	3	2	3
80 to 90 Feet	3	1	2	3	1	2	4	1	3	2	0	1	2	1	1
90 to 100 Feet	2	1	1	2	1	2	2	1	2	1	0	1	2	0	1
Above 100 Feet	16	6	11	21	9	15	14	7	10	12	4	8	19	6	13
Mean height Feet	59	41	50	65	44	55	57	43	50	52	37	44	61	38	50

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn	day	nit	dtn
% occur EL&SB dcts			2			3			2			1			1
% occur 2+ EL dcts			1			0			1			1			1
AVG station N			351			363			349			342			350
AVG station -N/Kft			17			18			17			16			17
AVG sfc wind Kts	15	14	14	13	12	13	16	15	16	16	15	16	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 29 03 S 167 55 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94995 29 03 S 167 55 E
Radiosonde station height: 358 Feet
Surface obs source: MS391 25 00 S 165 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	0	0	1	0	0	1	0	0	1	3	2
1 GHz	32	11	21	32	9	20	30	8	19	28	6	17	38	21	29
3 GHz	44	18	31	45	17	31	44	14	29	38	10	24	47	32	40
6 GHz	75	58	66	76	59	67	76	60	68	73	50	61	75	61	69
10 GHz	89	86	88	89	88	88	89	87	88	89	83	86	90	87	89
20 GHz	94	94	94	93	93	93	93	94	94	94	93	93	94	94	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	8	8	8	0	4	8	0	4	7	0	4	10	33	22
AVG thickness Kft			.26			.25			.29			.27			.24
AVG trap freq GHz			1.3			1.4			1.0			1.0			1.7
AVG lyr grd -N/Kft			124			106			97			157			135

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	23	0	11	31	0	16	19	0	10	15	0	8	26	0	13
AVG top ht Kft			5.8			5.5			6.3			5.8			5.5
AVG thickness Kft			.33			.39			.29			.28			.37
AVG trap freq GHz			.71			.44			.69			1.2			.49
AVG lyr grd -N/Kft			60			62			63			57			58
AVG lyr base Kft			5.5			5.2			6.1			5.6			5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	4	3	4	5	4	4	4	2	3	4	3	3	5	3	4
10 to 20 Feet	2	4	3	2	3	3	2	4	3	2	4	3	2	5	4
20 to 30 Feet	5	8	6	5	5	5	5	8	6	5	10	7	4	10	7
30 to 40 Feet	6	13	9	5	10	8	5	11	8	7	14	11	7	16	11
40 to 50 Feet	9	18	14	9	19	14	9	16	12	10	20	15	10	18	14
50 to 60 Feet	11	18	15	11	17	14	10	19	14	14	20	17	10	16	13
60 to 70 Feet	11	13	12	11	13	12	13	16	14	12	13	12	10	11	10
70 to 80 Feet	10	9	10	10	12	11	11	12	11	10	7	8	9	7	8
80 to 90 Feet	7	4	5	8	5	7	8	5	6	6	3	4	5	4	5
90 to 100 Feet	5	2	3	5	3	4	7	1	4	4	1	3	4	2	3
above 100 Feet	29	8	19	29	9	19	27	8	17	25	6	16	35	9	22
Mean height Feet	88	58	73	87	62	75	86	59	73	83	55	69	96	57	76

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			2			1			1			3
% occur 2+ EL dcts			2			4			1			1			2
AVG station N			334			346			333			324			334
AVG station -N/Kft			15			16			15			13			15
AVG sfc wind Kts	14	13	14	15	15	15	15	13	14	14	13	13	12	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 22 16 S 166 27 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 91592 22 16 S 166 27 E
Radiosonde station height: 226 Feet
Surface obs source: MS391 25 00 S 165 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	1	0	1	0	0	0	0	0	0	1	0	0
1 GHz	31	8	19	32	9	21	28	8	18	26	6	16	37	9	23
3 GHz	43	14	28	46	17	32	43	14	28	36	10	23	46	16	31
6 GHz	74	55	64	76	59	68	75	60	67	72	50	61	74	49	62
10 GHz	89	85	87	89	88	88	89	87	88	89	83	86	90	83	86
20 GHz	93	93	93	93	93	93	93	94	94	93	93	93	94	92	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	0	3	10	0	5	4	0	2	2	0	1	6	0	3
AVG thickness Kft			.18			.20			.19			.14			.19
AVG trap freq GHz			1.7			1.5			1.7			1.9			1.5
AVG lyr grd -N/Kft			172			155			185			200			149

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	29	0	15	23	0	12	27	0	14	33	0	17	33	0	17
AVG top ht Kft			5.7			5.7			5.7			5.8			5.4
AVG thickness Kft			.54			.62			.48			.52			.53
AVG trap freq GHz			.30			.23			.39			.28			.29
AVG lyr grd -N/Kft			58			61			56			58			57
AVG lyr base Kft			5.3			5.3			5.3			5.4			5.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	4	3	4	5	4	4	4	2	3	4	3	3	5	3	4
10 to 20 Feet	2	4	3	2	3	3	2	4	3	2	4	3	2	5	4
20 to 30 Feet	5	8	6	5	5	5	5	8	6	5	10	7	4	10	7
30 to 40 Feet	6	13	9	5	10	8	5	11	8	7	14	11	7	16	11
40 to 50 Feet	9	18	14	9	19	14	9	16	12	10	20	15	10	18	14
50 to 60 Feet	11	18	15	11	17	14	10	19	14	14	20	17	10	16	13
60 to 70 Feet	11	13	12	11	13	12	13	16	14	12	13	12	10	11	10
70 to 80 Feet	10	9	10	10	12	11	11	12	11	10	7	8	9	7	8
80 to 90 Feet	7	4	5	8	5	7	8	5	6	6	3	4	5	4	5
90 to 100 Feet	5	2	3	5	3	4	7	1	4	4	1	3	4	2	3
above 100 Feet	29	8	19	29	9	19	27	8	17	25	6	16	35	9	22
Mean height Feet	88	58	73	87	62	75	86	59	73	83	55	69	96	57	76

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			2			1			0			2
% occur 2+ EL dcts			2			2			2			2			4
AVG station N			353			367			352			341			353
AVG station -N/Kft			15			16			15			13			15
AVG sfc wind Kts	14	13	14	15	15	15	15	13	14	14	13	13	12	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 27 25 S 153 04 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94578 27 25 S 153 04 E
Radiosonde station height: 7 Feet
Surface obs source: MS392 25 00 S 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	0	1	1	2	2	1	0	0	1	0	0
1 GHz	34	11	22	38	10	24	28	15	22	26	7	17	41	11	26
3 GHz	47	21	34	53	22	37	45	30	38	38	15	26	53	19	36
6 GHz	80	64	72	80	67	74	82	75	79	75	58	67	81	57	69
10 GHz	93	89	91	93	89	91	95	93	94	92	87	90	92	86	89
20 GHz	96	95	96	96	95	95	98	97	97	96	95	95	95	93	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	4	6	7	0	4	10	17	14	6	0	3	7	0	4
AVG thickness Kft			.32			.48			.32			.23			.24
AVG trap freq GHz			1.0			.60			1.0			1.7			.76
AVG lyr grd -N/Kft			147			105			157			210			116

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	17	13	15	26	22	24	12	17	15	7	0	4	23	14	19
AVG top ht Kft			5.7			6.4			6.1			5.3			5.1
AVG thickness Kft			.31			.35			.25			.26			.36
AVG trap freq GHz			1.0			.63			1.0			1.6			.63
AVG lyr grd -N/Kft			57			55			58			58			59
AVG lyr base Kft			5.5			6.1			5.9			5.1			4.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	3	2	2	1	1	1	1	2	1	3	3	3
10 to 20 Feet	2	3	3	2	3	2	1	3	2	2	3	3	2	4	3
20 to 30 Feet	3	7	5	3	6	5	3	4	4	4	8	6	3	8	6
30 to 40 Feet	6	10	8	6	9	7	5	8	7	7	12	10	5	12	9
40 to 50 Feet	9	15	12	8	13	11	9	13	11	10	17	14	7	16	12
50 to 60 Feet	11	18	14	10	17	13	11	19	15	13	19	16	10	16	13
60 to 70 Feet	12	15	14	10	15	13	14	17	16	15	14	15	11	13	12
70 to 80 Feet	11	12	11	9	13	11	14	14	14	11	10	11	9	9	9
80 to 90 Feet	8	6	7	9	7	8	10	9	10	7	5	6	6	5	6
90 to 100 Feet	5	4	5	6	4	5	7	4	6	4	3	4	5	3	4
above 100 Feet	31	9	20	36	10	23	24	7	16	24	7	16	39	11	25
Mean height Feet	93	63	78	98	65	81	85	64	75	85	60	72	103	63	83

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			2			2			0			2
% occur 2+ EL dcts			2			2			1			1			4
AVG station N			339			353			337			323			341
AVG station -N/Kft			15			16			15			14			15
AVG sfc wind Kts	14	13	13	16	15	15	15	13	14	13	12	13	12	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 23 51 S 151 16 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94380 23 51 S 151 16 E
Radiosonde station height: 246 Feet
Surface obs source: MS392 25 00 S 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	*	*	*	1	0	0	1	0	0	2	0	1
1 GHz	32	9	20	*	*	*	27	7	17	26	7	17	44	11	27
3 GHz	46	18	32	*	*	*	44	21	32	38	15	26	55	19	37
6 GHz	80	62	71	*	*	*	82	71	76	75	58	67	82	57	70
10 GHz	93	88	91	*	*	*	95	92	94	92	87	90	93	86	89
20 GHz	97	95	96	*	*	*	98	96	97	96	95	95	96	93	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	0	3	0	0	0	6	0	3	4	0	2	13	0	7
AVG thickness Kft			.35			*			.46			.31			.27
AVG trap freq GHz			.67			*			.76			.55			.70
AVG lyr grd -N/Kft			158			*			103			101			270

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	23	0	11	21	0	11	31	0	16	11	0	6	27	0	14
AVG top ht Kft			5.2			4.8			5.8			4.2			5.9
AVG thickness Kft			.42			.51			.26			.39			.51
AVG trap freq GHz			.38			.22			1.2			1.2			.91
AVG lyr grd -N/Kft			67			65			57			78			66
AVG lyr base Kft			4.9			4.5			5.6			4.0			5.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	3	2	2	1	1	1	1	2	1	3	3	3
10 to 20 Feet	2	3	3	2	3	2	1	3	2	2	3	3	2	4	3
20 to 30 Feet	3	7	5	3	6	5	3	4	4	4	8	6	3	8	6
30 to 40 Feet	6	10	8	6	9	7	5	8	7	7	12	10	5	12	9
40 to 50 Feet	9	15	12	8	13	11	9	13	11	10	17	14	7	16	12
50 to 60 Feet	11	18	14	10	17	13	11	19	15	13	19	16	10	16	13
60 to 70 Feet	12	15	14	10	15	13	14	17	16	15	14	15	11	13	12
70 to 80 Feet	11	12	11	9	13	11	14	14	14	11	10	11	9	9	9
80 to 90 Feet	8	6	7	9	7	8	10	9	10	7	5	6	6	5	6
90 to 100 Feet	5	4	5	6	4	5	7	4	6	4	3	4	5	3	4
above 100 Feet	31	9	20	36	10	23	24	7	16	24	7	16	39	11	25
Mean height Feet	93	63	78	98	65	81	85	64	75	85	60	72	103	63	83

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			1			0			2
% occur 2+ EL dcts			1			0			1			0			3
AVG station N			338			350			333			326			341
AVG station -N/Kft			15			15			14			15			17
AVG sfc wind Kts	14	13	13	16	15	15	15	13	14	13	12	13	12	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 24 52 S 113 39 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94300 24 52 S 113 39 E
Radiosonde station height: 10 Feet
Surface obs source: MS396 25 00 S 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	4	0	2	1	0	1	1	0	0	3	0	2
1 GHz	37	15	26	43	14	28	36	20	28	27	13	20	41	12	27
3 GHz	49	23	36	53	22	38	49	32	41	40	20	30	52	19	35
6 GHz	79	63	71	77	57	67	82	72	77	78	65	72	79	57	68
10 GHz	93	88	91	89	84	86	95	91	93	95	91	93	92	88	90
20 GHz	96	94	95	93	91	92	98	96	97	99	96	97	95	94	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	0	6	20	0	10	9	0	5	5	0	3	14	0	7
AVG thickness Kft			.48			.60			.40			.32			.59
AVG trap freq GHz			.61			.38			.65			1.2			.27
AVG lyr grd -N/Kft			115			95			112			152			101

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	34	0	17	37	0	19	27	0	14	25	0	13	46	0	23
AVG top ht Kft			3.9			2.4			5.4			5.5			2.2
AVG thickness Kft			.51			.74			.34			.37			.60
AVG trap freq GHz			.38			.17			.67			.48			.20
AVG lyr grd -N/Kft			59			61			55			58			62
AVG lyr base Kft			3.5			1.9			5.1			5.3			1.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	5	5	5	1	2	1	1	1	1	3	2	3
10 to 20 Feet	2	3	2	3	4	4	1	2	2	1	3	2	2	3	2
20 to 30 Feet	4	6	5	5	7	6	3	5	4	4	5	4	4	7	5
30 to 40 Feet	6	10	8	6	11	9	4	8	6	7	9	8	6	13	10
40 to 50 Feet	9	15	12	9	16	12	9	11	10	11	17	14	9	17	13
50 to 60 Feet	12	17	14	11	16	13	12	13	13	14	20	17	11	17	14
60 to 70 Feet	12	14	13	9	12	11	13	15	14	15	16	15	11	13	12
70 to 80 Feet	10	9	10	9	8	8	11	12	11	11	10	10	9	8	8
80 to 90 Feet	7	5	6	6	5	5	8	8	8	7	4	6	7	4	6
90 to 100 Feet	4	3	4	4	3	4	5	5	5	5	3	4	4	2	3
above 100 Feet	31	15	23	33	14	23	32	20	26	25	13	19	34	12	23
Mean height Feet	93	69	81	91	65	78	96	79	87	88	68	78	95	65	80

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			3			2			1			3
% occur 2+ EL dcts			3			4			3			1			3
AVG station N			333			344			330			324			334
AVG station -N/Kft			17			20			14			14			19
AVG sfc wind Kts	14	14	14	16	16	16	13	12	12	13	12	13	16	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 20 22 S 118 37 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94312 20 22 S 118 37 E
Radiosonde station height: 20 Feet
Surface obs source: MS396 25 00 S 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	9	0	4	9	0	4	7	0	3	6	0	3	13	0	6
1 GHz	51	15	33	54	14	34	50	20	35	41	13	27	60	12	36
3 GHz	63	23	43	65	22	44	63	32	48	54	20	37	70	19	44
6 GHz	85	63	74	84	57	70	88	72	80	84	65	75	87	57	72
10 GHz	95	88	92	92	84	88	96	91	94	96	91	94	95	88	91
20 GHz	97	94	96	95	91	93	98	96	97	99	96	98	97	94	96

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	39	0	20	43	0	22	38	0	19	29	0	15	46	0	23
AVG thickness Kft			.48			.51			.40			.41			.59
AVG trap freq GHz			.36			.36			.46			.41			.22
AVG lyr grd -M/Kft			92			103			95			85			87

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	20	0	10	18	0	9	22	0	11	20	0	10	20	0	10
AVG top ht Kft			4.3			3.8			7.0			3.3			3.8
AVG thickness Kft			.42			.59			.24			.40			.44
AVG trap freq GHz			.60			.27			1.1			.47			.57
AVG lyr grd -M/Kft			60			63			59			57			61
AVG lyr base Kft			4.0			3.4			6.8			3.0			2.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	2	2	5	5	5	1	2	1	1	1	1	3	2	3
10 to 20 Feet	2	3	2	3	4	4	1	2	2	1	3	2	2	3	2
20 to 30 Feet	4	6	5	5	7	6	3	5	4	4	5	4	4	7	5
30 to 40 Feet	6	10	8	6	11	9	4	8	6	7	9	8	6	13	10
40 to 50 Feet	9	15	12	9	16	12	9	11	10	11	17	14	9	17	13
50 to 60 Feet	12	17	14	11	16	13	12	13	13	14	20	17	11	17	14
60 to 70 Feet	12	14	13	9	12	11	13	15	14	15	16	15	11	13	12
70 to 80 Feet	10	9	10	9	8	8	11	12	11	11	10	10	9	8	8
80 to 90 Feet	7	5	6	6	5	5	8	8	8	7	4	6	7	4	6
90 to 100 Feet	4	3	4	4	3	4	5	5	5	5	3	4	4	2	3
above 100 Feet	31	15	23	33	14	23	32	20	26	25	13	19	34	12	23
Mean height Feet	93	69	81	91	65	78	96	79	87	88	68	78	95	65	80

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			4			4			6			3			3
% occur 2+ EL dcts			2			3			2			1			4
AVG station N			346			373			337			324			349
AVG station -M/Kft			19			23			16			16			22
AVG sfc wind Kts	14	14	14	16	16	16	13	12	12	13	12	13	16	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 S 105 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94300 24 52 S 113 39 E
Radiosonde station height: 10 Feet
Surface obs source: MS397 25 00 S 105 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	4	0	2	1	0	1	1	0	0	3	0	2
1 GHz	28	8	18	35	11	23	23	7	15	19	6	12	35	9	22
3 GHz	40	17	28	49	21	35	35	16	25	31	13	22	46	17	32
6 GHz	75	61	68	79	65	72	72	61	67	71	57	64	79	60	69
10 GHz	93	89	91	93	89	91	91	88	90	93	90	91	95	89	92
20 GHz	97	96	97	97	96	96	96	96	96	98	97	97	98	96	97

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	0	6	20	0	10	9	0	5	5	0	3	14	0	7
AVG thickness Kft			.48			.60			.40			.32			.59
AVG trap freq GHz			.61			.38			.65			1.2			.27
AVG lyr grd -N/Kft			115			95			112			152			101

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	34	0	17	37	0	19	27	0	14	25	0	13	46	0	23
AVG top ht Kft			3.9			2.4			5.4			5.5			2.2
AVG thickness Kft			.51			.74			.34			.37			.60
AVG trap freq GHz			.38			.17			.67			.48			.20
AVG lyr grd -N/Kft			59			61			55			58			62
AVG lyr base Kft			3.5			1.9			5.1			5.3			1.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	1	1	1	2	2	2	2	1	2	1	1	1	1	1	1
10 to 20 Feet	2	3	3	3	2	3	3	3	3	2	2	2	2	3	2
20 to 30 Feet	5	7	6	4	7	6	5	8	6	5	7	6	3	7	5
30 to 40 Feet	7	12	9	6	9	7	8	11	10	8	14	11	6	13	10
40 to 50 Feet	13	16	15	12	15	13	13	16	14	15	19	17	13	16	14
50 to 60 Feet	15	18	16	13	18	15	15	18	17	17	20	19	13	16	15
60 to 70 Feet	13	15	14	12	14	13	15	16	15	13	15	14	13	16	15
70 to 80 Feet	10	11	11	10	12	11	10	11	11	10	9	10	10	10	10
80 to 90 Feet	7	5	6	8	7	7	7	5	6	7	5	6	7	4	6
90 to 100 Feet	4	3	4	6	4	5	4	3	4	4	3	3	4	3	4
above 100 Feet	22	8	15	24	11	17	19	7	13	17	6	11	27	9	18
Mean height Feet	80	61	71	83	64	74	75	61	68	74	58	66	87	63	75

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			3			2			1			3
% occur 2+ EL dcts			3			4			3			1			3
AVG station N			333			344			330			324			334
AVG station -N/Kft			17			20			14			14			19
AVG sfc wind Kts	14	14	14	16	16	16	14	13	14	13	13	13	14	13	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 20 18 S 57 30 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 61995 20 18 S 57 30 E
Radiosonde station height: 1394 Feet
Surface obs source: MS402 25 00 S 55 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	3	1	2	0	1	0	10	1	6	3	1	2	0	1	1
1 GHz	41	11	26	38	11	25	54	10	32	32	8	20	41	13	27
3 GHz	53	18	36	49	19	34	68	21	44	44	15	30	59	19	35
6 GHz	81	58	69	79	60	70	89	63	76	78	58	68	77	52	64
10 GHz	94	88	91	93	88	90	97	89	93	94	88	91	91	86	89
20 GHz	97	95	96	97	94	96	98	96	97	97	95	96	96	93	95

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	4	10	0	4	2	50	4	27	11	3	7	0	5	3
AVG thickness Kft			.49			.57			.46			.34			.60
AVG trap freq GHz			.30			.36			.36			.24			.24
AVG lyr grd -N/Kft			105			129			93			127			72

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	25	27	26	11	27	19	10	25	18	54	25	40	25	30	28
AVG top ht Kft			5.0			3.8			5.1			5.4			5.6
AVG thickness Kft			.45			.45			.56			.33			.47
AVG trap freq GHz			.42			.37			.23			.67			.41
AVG lyr grd -N/Kft			59			60			63			55			56
AVG lyr base Kft			4.6			3.4			4.8			5.1			5.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	2	2	2	2	1	1	2	2	2	2	2	2
10 to 20 Feet	1	4	3	1	4	3	1	2	2	1	4	3	1	4	3
20 to 30 Feet	4	7	5	4	7	5	3	8	5	4	7	5	4	8	6
30 to 40 Feet	6	12	9	5	11	8	5	10	8	8	12	10	6	15	10
40 to 50 Feet	9	19	14	9	18	13	10	16	13	10	19	15	9	21	15
50 to 60 Feet	12	18	15	11	18	14	14	17	15	14	20	17	9	16	13
60 to 70 Feet	12	14	13	11	15	13	12	15	14	13	15	14	10	12	11
70 to 80 Feet	9	9	9	8	10	9	12	11	12	10	10	10	8	7	7
80 to 90 Feet	7	5	6	7	4	5	8	6	7	9	5	7	5	3	4
90 to 100 Feet	5	3	4	5	3	4	5	4	5	4	2	3	4	2	3
above 100 Feet	33	8	20	38	9	23	27	3	17	25	6	15	41	10	25
Mean height Feet	94	60	77	100	60	80	88	62	75	85	58	71	106	60	83

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			2			0			1			1
% occur 2+ EL dcts			3			4			1			3			3
AVG station N			346			358			344			336			345
AVG station -N/Kft			17			19			16			16			17
AVG sfc wind Kts	13	12	12	14	13	13	13	12	13	14	12	13	11	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 01 S 46 57 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 67197 25 01 S 46 57 E
Radiosonde station height: 26 Feet
Surface obs source: MS403 25 00 S 45 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	0	3	1	0	1	0	0	1	0	0	1	1
1 GHz	26	13	20	31	19	25	22	10	16	23	9	16	30	12	21
3 GHz	39	20	30	46	30	38	37	18	27	34	15	24	40	19	29
6 GHz	74	58	66	77	65	71	75	61	68	70	53	62	72	53	63
10 GHz	91	85	88	92	89	91	92	87	89	90	83	86	89	83	86
20 GHz	96	94	95	96	95	96	96	94	95	96	92	94	94	92	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&	day	nit	d&n
Percent occurrence	0	9	4	0	17	9	0	2	1	0	6	3	0	10	5
AVG thickness Kft			.42			.34			.56			.27			.50
AVG trap freq GHz			.94			.61			.24			2.2			.73
AVG lyr grd -N/Kft			361			207			196			718			322

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	15	8	0	19	10	0	7	4	0	13	7	0	21	11
AVG top ht Kft			5.3			4.8			4.8			6.5			5.2
AVG thickness Kft			.47			.76			.26			.32			.54
AVG trap freq GHz			1.6			.55			2.3			2.3			1.2
AVG lyr grd -N/Kft			72			73			78			61			75
AVG lyr base Kft			5.8			4.3			4.7			6.3			4.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
9 to 10 Feet	2	2	2	3	2	2	1	2	2	3	2	2	3	3	3
10 to 20 Feet	2	5	3	2	4	3	2	4	3	3	6	4	3	5	4
20 to 30 Feet	5	9	7	4	7	6	4	8	6	5	10	8	5	11	8
30 to 40 Feet	7	12	10	6	12	9	6	10	8	8	13	10	8	14	11
40 to 50 Feet	10	17	14	9	16	13	10	16	13	12	19	15	9	18	13
50 to 60 Feet	12	17	15	9	17	13	13	17	15	13	17	15	12	17	15
60 to 70 Feet	12	14	13	12	14	13	14	15	14	13	13	13	12	12	12
70 to 80 Feet	10	9	10	10	10	10	12	12	12	10	8	9	9	8	8
80 to 90 Feet	7	4	6	9	5	7	8	5	7	7	3	5	6	3	4
90 to 100 Feet	5	2	4	6	3	5	6	3	4	4	1	3	4	2	3
above 100 Feet	26	8	17	31	10	20	22	8	15	23	7	15	30	7	18
Mean height Feet	86	59	72	91	61	76	81	62	71	81	56	68	89	55	72

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			3			0			0			4
% occur 2+ EL dcts			1			2			0			0			0
AVG station N			363			372			359			354			368
AVG station -N/Kft			17			17			16			16			18
AVG sfc wind Kts	14	13	14	14	14	14	14	13	13	14	13	13	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 55 S 32 34 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 67341 25 55 S 32 34 E
Radiosonde station height: 128 Feet
Surface obs source: MS404 25 00 S 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	3	0	2	1	1	1	1	3	2	1	2	1
1 GHz	36	13	21	41	10	26	25	11	18	22	17	29	30	12	21
3 GHz	42	23	32	54	21	37	39	21	30	34	27	30	42	21	32
6 GHz	75	61	68	81	63	72	77	65	71	69	61	65	72	56	64
10 GHz	91	87	89	94	88	91	93	88	90	90	87	88	89	84	87
20 GHz	96	94	95	97	94	95	96	94	95	95	94	95	94	93	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	11	11	11	21	2	12	9	6	8	8	23	16	6	14	10
AVG thickness Kft			.33			.28			.40			.34			.28
AVG trap freq GHz			1.2			.63			1.9			.87			1.3
AVG lyr grd -N/Kft			246			118			166			120			581

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	18	16	11	33	22	16	16	16	11	9	10	19	12	16
AVG top ht Kft			5.7			6.2			5.9			4.8			6.1
AVG thickness Kft			.42			.47			.27			.31			.63
AVG trap freq GHz			.60			.42			.93			.88			.19
AVG lyr grd -N/Kft			58			56			57			56			64
AVG lyr base Kft			5.4			5.9			5.6			4.5			5.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	3	2	2	1	1	1	2	2	2	3	3	3
10 to 20 Feet	2	5	4	2	3	3	2	5	4	3	6	4	3	5	4
20 to 30 Feet	5	8	6	4	6	5	4	7	5	6	9	7	5	9	7
30 to 40 Feet	7	12	9	6	10	8	6	9	8	9	13	11	7	14	11
40 to 50 Feet	11	17	14	9	16	13	11	15	13	13	19	16	10	17	14
50 to 60 Feet	13	17	15	11	17	14	14	18	16	15	18	16	12	17	14
60 to 70 Feet	12	14	13	11	15	13	14	16	15	13	13	13	10	12	11
70 to 80 Feet	10	10	10	9	11	10	11	11	11	10	8	9	9	9	9
80 to 90 Feet	7	5	6	7	6	7	8	7	7	6	4	5	7	4	5
90 to 100 Feet	5	3	4	5	4	5	6	4	5	4	2	3	5	2	4
above 100 Feet	25	8	17	32	9	21	22	9	15	19	6	12	28	7	17
Mean Height Feet	85	59	72	94	63	79	82	62	72	76	55	65	87	56	72

GENEVAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			2			0			1			1
% occur 2+ EL dcts			1			4			1			0			1
AVG station N			350			369			344			335			350
AVG station -N/Kft			16			18			16			14			16
AVG sfc wind kts	13	13	13	13	13	13	13	12	13	14	13	13	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 28 34 S 16 31 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 68406 28 34 S 16 31 E
Radiosonde station height: 89 Feet
Surface obs source: MS406 25 00 S 15 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESH-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	0	1	1	0	1	2	0	1	1	0	1
1 GHz	19	6	13	22	6	14	21	9	15	18	5	12	17	6	11
3 GHz	25	9	17	29	10	19	26	11	18	24	7	15	22	9	15
6 GHz	47	29	38	54	36	45	47	31	39	44	25	34	42	24	33
10 GHz	72	61	67	77	69	73	73	62	67	71	58	65	67	56	62
20 GHz	83	77	80	85	81	83	84	77	81	85	78	81	79	74	77

SUFFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	1	5	10	0	5	7	0	4	12	0	6	6	3	5
AVG thickness Kft			.43			.43			.50			.47			.34
AVG trap freq GHz			.61			.75			.35			.70			.65
AVG lyr grd -N/Kft			125			162			111			109			116

ELEVPTED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	4	8	19	0	10	8	0	4	9	3	5	13	15	14
AVG top ht Kft			3.1			3.1			2.2			4.0			3.1
AVG thickness Kft			.47			.60			.47			.22			.58
AVG trap freq GHz			.71			.37			.37			1.8			.33
AVG lyr grd -N/Kft			59			56			56			53			69
AVG lyr base Kft			2.8			2.7			1.8			3.8			2.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	10	12	11	10	12	11	9	12	10	8	9	9	13	14	14
10 to 20 Feet	8	11	10	6	8	7	8	11	10	10	13	12	9	12	11
20 to 30 Feet	12	16	14	9	12	10	13	16	14	16	19	17	12	19	16
30 to 40 Feet	14	17	16	12	15	14	14	16	15	16	19	17	14	18	16
40 to 50 Feet	13	15	14	13	18	16	13	14	14	14	15	15	13	14	14
50 to 60 Feet	11	11	11	11	13	12	11	10	10	11	11	11	10	9	10
60 to 70 Feet	7	6	7	9	8	9	7	6	7	6	5	6	7	4	5
70 to 80 Feet	5	3	4	6	5	5	5	4	4	4	2	3	4	3	3
80 to 90 Feet	3	2	2	4	2	3	3	2	2	2	1	2	2	1	2
90 to 100 Feet	2	1	1	2	1	2	2	1	1	1	1	1	2	1	1
above 100 Feet	15	6	10	17	6	12	16	9	12	12	5	9	13	4	9
Mean height Feet	53	43	51	64	46	55	61	46	54	54	41	47	55	38	47

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			0			1			1
% occur 2+ EL dcts			1			2			1			0			0
AVG station N			333			341			329			326			335
AVG station -N/Kft			15			17			14			15			16
AVG sfc wind Kts	15	15	15	16	16	16	13	13	13	15	14	15	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 25 00 S 5 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 68406 28 34 S 16 31 E
Radiosonde station height: 89 Feet
Surface obs source: MS407 25 00 S 5 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	0	1	1	0	1	2	0	1	1	0	1
1 GHz	29	7	18	34	9	22	30	7	19	24	4	14	27	8	17
3 GHz	37	11	24	44	15	30	38	12	25	32	7	19	34	11	22
6 GHz	64	43	53	71	55	63	66	46	56	59	35	47	59	36	47
10 GHz	87	81	84	90	87	88	89	83	86	86	78	82	85	76	80
20 GHz	94	93	93	95	94	94	95	93	94	94	92	93	92	91	91

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	1	5	10	0	5	7	0	4	12	0	6	6	3	5
AVG thickness Kft			.43			.43			.50			.47			.34
AVG trap freq GHz			.61			.75			.35			.78			.65
AVG lyr grd -N/Kft			125			162			111			109			116

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	4	8	19	0	10	8	0	4	9	0	5	13	15	14
AVG top ht Kft			3.1			3.1			2.2			4.8			3.1
AVG thickness Kft			.47			.60			.47			.22			.58
AVG trap freq GHz			.71			.37			.37			1.8			.33
AVG lyr grd -N/Kft			59			56			56			53			69
AVG lyr base Kft			2.8			2.7			1.8			3.8			2.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	3	3	3	2	2	3	2	2	3	3	3	4	4	4
10 to 20 Feet	4	5	4	3	4	3	3	5	4	4	6	5	4	6	5
20 to 30 Feet	7	12	10	5	8	6	7	10	9	9	14	12	8	15	12
30 to 40 Feet	11	18	15	8	13	10	10	17	14	14	21	18	12	2	16
40 to 50 Feet	14	20	17	12	19	16	14	20	17	16	22	19	15	21	18
50 to 60 Feet	13	16	15	12	19	15	12	17	14	15	16	15	13	14	14
60 to 70 Feet	9	12	10	10	13	12	10	11	10	9	8	8	8	7	8
70 to 80 Feet	6	6	6	8	8	8	7	7	7	5	5	5	5	4	4
80 to 90 Feet	4	3	3	5	4	5	5	3	4	3	2	3	3	2	3
90 to 100 Feet	3	2	2	4	2	3	3	2	2	3	1	2	2	1	2
above 100 Feet	25	7	16	30	9	20	26	7	17	19	4	11	24	6	15
Mean height Feet	80	53	67	89	60	75	82	55	69	70	47	59	79	49	64

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			0			1			1
% occur 2+ EL dcts			1			2			1			0			0
AVG station N			333			341			329			326			335
AVG station -N/Kft			15			17			14			15			16
AVG sfc wind Kts	14	14	14	14	15	15	14	13	13	16	15	15	14	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 00 S 45 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 83971 30 00 S 51 10 W
Radiosonde station height: 10 Feet
Surface obs source: MS412 35 00 S 45 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR-ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	2	2	3	2	3	1	0	1	3	3	3	2	1	1
1 GHz	24	10	17	33	14	24	17	6	11	17	14	15	27	7	17
3 GHz	31	15	23	42	21	31	24	10	17	23	17	20	36	11	23
6 GHz	57	40	48	70	49	59	57	39	48	43	35	39	59	37	48
10 GHz	79	70	75	86	77	82	81	72	76	79	62	66	78	70	74
20 GHz	87	82	83	92	87	90	89	84	86	81	75	78	86	83	84

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	13	7	10	14	9	12	10	3	7	13	13	13	13	4	9
AVG thickness Kft			.51			.65			.45			.55			.40
AVG trap freq GHz			.47			.28			.68			.34			.58
AVG lyr grd -N/Kft			101			85			105			86			127

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	36	49	42	33	44	39	37	53	45	36	46	41	37	52	45
AVG top ht Kft			5.9			6.3			5.9			5.3			6.1
AVG thickness Kft			.50			.59			.52			.42			.45
AVG trap freq GHz			.31			.20			.32			.37			.37
AVG lyr grd -N/Kft			63			66			61			61			64
AVG lyr base Kft			5.5			5.9			5.5			5.0			5.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	9	10	9	6	7	6	6	7	6	13	15	14	10	9	10
10 to 20 Feet	6	9	8	3	7	5	7	9	8	8	13	11	6	9	8
20 to 30 Feet	9	13	11	7	11	9	9	13	11	13	15	14	8	14	11
30 to 40 Feet	12	16	14	8	13	10	12	16	14	16	17	16	10	17	13
40 to 50 Feet	13	17	15	11	18	14	14	18	16	15	15	15	12	17	14
50 to 60 Feet	13	14	13	12	14	13	16	14	15	13	11	12	11	16	13
60 to 70 Feet	9	8	9	12	11	11	11	9	10	6	5	6	9	7	8
70 to 80 Feet	6	5	6	8	6	7	7	6	7	4	3	4	6	4	5
80 to 90 Feet	4	2	3	5	3	4	4	2	3	3	1	2	4	2	3
90 to 100 Feet	3	1	2	3	2	3	3	1	2	1	1	1	3	1	2
above 100 Feet	16	5	11	25	8	16	12	4	8	8	4	6	21	5	13
Mean height Feet	64	46	55	79	53	66	69	46	53	47	39	43	70	46	58

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			4			2			4			4
% occur 2+ EL dcts			5			5			5			4			5
AVG station N			348			361			346			337			346
AVG station -N/Kft			16			17			16			16			16
AVG sfc wind kts	14	13	14	13	12	12	14	13	14	15	14	14	14	13	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 34 49 S 58 31 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 87576 34 49 S 58 31 W
Radiosonde station height: 66 Feet
Surface obs source: MS413 35 00 S 55 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	2	1	1	1	0	1	1	1	1	1	1	1
1 GHz	23	12	17	31	14	22	19	10	14	16	10	13	25	13	19
3 GHz	27	16	21	38	19	29	23	14	18	18	13	16	30	16	23
6 GHz	43	30	36	57	38	48	40	32	36	27	20	24	46	29	38
10 GHz	62	56	59	74	67	70	66	59	62	47	39	43	63	58	61
20 GHz	74	72	73	81	81	81	79	74	77	62	58	60	73	75	74

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	5	6	11	8	10	6	3	5	4	5	5	7	5	6
AVG thickness Kft			.31			.28			.30			.33			.32
AVG trap freq GHz			.69			.64			.67			.67			.78
AVG lyr grd -N/Kft			123			133			100			149			110

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	18	12	15	24	13	19	14	11	13	13	14	14	19	10	15
AVG top ht Kft			3.6			4.3			3.7			3.3			3.1
AVG thickness Kft			.41			.46			.34			.37			.47
AVG trap freq GHz			.53			.42			.85			.59			.34
AVG lyr grd -N/Kft			57			56			55			58			59
AVG lyr base Kft			3.3			3.9			3.5			3.0			2.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	19	17	18	15	12	14	14	14	14	27	27	27	19	16	18
10 to 20 Feet	9	13	11	5	9	7	9	13	11	13	18	15	9	10	10
20 to 30 Feet	12	17	14	8	14	11	14	16	15	15	19	17	11	17	14
30 to 40 Feet	11	16	14	8	16	12	14	15	14	13	13	13	11	19	15
40 to 50 Feet	10	11	11	10	15	12	14	12	13	7	7	7	7	12	9
50 to 60 Feet	7	8	7	9	9	9	9	10	10	4	5	4	7	7	7
60 to 70 Feet	5	4	5	6	6	6	5	5	5	3	2	2	6	4	5
70 to 80 Feet	3	3	3	5	5	5	3	3	3	2	1	2	4	1	3
80 to 90 Feet	2	2	2	4	3	3	2	2	2	1	1	1	2	1	2
90 to 100 Feet	2	1	1	2	2	2	1	1	1	1	1	1	2	1	1
above 100 Feet	20	9	14	26	9	18	16	8	12	14	7	11	22	11	16
Mean height Feet	62	47	51	75	49	62	56	45	51	45	33	39	64	45	54

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur ELESB mins			1			2			1			0			0
% occur 2+ EL mins			1			2			1			0			1
AVG station N			334			347			328			326			336
AVG station -N/Kft			14			15			13			14			14
AVG sfc wind Kts	12	12	12	11	11	11	11	11	11	11	12	11	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 30 00 S 51 10 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 83971 30 00 S 51 10 W
Radiosonde station height: 10 Feet
Surface obs source: MS413 35 00 S 55 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	2	2	3	2	3	1	3	1	3	3	3	2	1	1
1 GHz	27	14	20	35	16	25	21	10	15	23	16	19	28	13	21
3 GHz	32	18	25	41	21	31	25	14	20	26	20	23	34	16	25
6 GHz	46	32	39	59	39	49	42	32	37	34	27	31	49	28	39
10 GHz	65	57	61	75	68	71	67	59	63	52	45	48	65	58	62
20 GHz	75	73	74	81	81	81	80	74	77	65	61	63	75	74	75

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	13	7	10	14	9	12	10	3	7	13	13	13	13	4	9
AVG thickness Kft			.51			.65			.45			.55			.40
AVG trap freq GHz			.47			.28			.68			.34			.58
AVG lyr grd -N/Kft			101			85			105			86			127

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	36	49	42	33	44	39	37	53	45	36	46	41	37	52	45
AVG top ht Kft			5.9			6.3			5.9			5.3			6.1
AVG thickness Kft			.50			.59			.52			.42			.45
AVG trap freq GHz			.31			.20			.32			.37			.37
AVG lyr grd -N/Kft			63			66			61			61			64
AVG lyr base Kft			5.5			5.9			5.5			5.8			5.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	19	17	18	15	12	14	14	14	14	27	27	27	19	16	18
10 to 20 Feet	9	13	11	5	9	7	9	13	11	13	18	15	9	10	10
20 to 30 Feet	12	17	14	8	14	11	14	16	15	15	19	17	11	17	14
30 to 40 Feet	11	16	14	8	16	12	14	15	14	13	13	13	11	19	15
40 to 50 Feet	10	11	11	10	15	12	14	12	13	7	7	7	7	12	9
50 to 60 Feet	7	8	7	8	9	9	9	10	10	4	5	4	7	7	7
60 to 70 Feet	5	4	5	6	6	6	5	5	5	3	2	2	6	4	5
70 to 80 Feet	3	3	3	5	5	5	3	3	3	2	1	2	4	1	3
80 to 90 Feet	2	2	2	4	3	3	2	2	2	1	1	1	2	1	2
90 to 100 Feet	2	1	1	2	2	2	1	1	1	1	1	1	2	1	1
above 100 Feet	20	9	14	26	9	18	16	8	12	14	7	11	22	11	16
Mean height Feet	60	43	51	75	49	62	56	45	51	45	33	39	64	45	54

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			3			4			2			4			4
% occur 2+ EL dcts			5			5			5			4			5
AVG station N			348			361			346			337			346
AVG station -N/Kft			16			17			16			16			16
AVG sfc wind Kts	12	12	12	11	11	11	11	11	11	11	12	11	13	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 38 43 S 62 10 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 87748 38 43 S 62 10 W
Radiosonde station height: 246 Feet
Surface obs source: MS450 45 00 S 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	0	1	1	0	1	0	0	0	1	0	1
1 GHz	22	13	17	31	16	24	15	13	14	16	11	13	25	13	19
3 GHz	25	15	20	36	19	28	17	14	16	19	12	16	28	15	22
6 GHz	36	25	30	49	33	41	30	25	27	27	19	23	38	22	30
10 GHz	55	48	52	67	57	62	54	53	53	46	41	43	54	41	47
20 GHz	70	66	68	78	74	76	71	70	71	63	61	62	67	58	62

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	3	4	9	2	6	6	3	5	3	3	3	6	3	5
AVG thickness Kft			.20			.23			.18			.27			.13
AVG trap freq GHz			1.1			1.4			.84			1.1			1.3
AVG lyr grd -M/Kft			171			200			126			182			176

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	4	2	3	3	2	3	1	1	1	1	1	1
AVG top ht Kft			4.2			3.8			6.0			5.1			2.0
AVG thickness Kft			.37			.49			.22			.42			.37
AVG trap freq GHz			1.2			2.0			1.6			.43			1.0
AVG lyr grd -M/Kft			63			67			59			65			59
AVG lyr base Kft			4.0			3.5			5.8			4.8			1.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	20	18	19	19	16	17	17	12	14	19	20	20	24	24	24
10 to 20 Feet	13	17	15	6	11	8	15	19	17	19	20	20	11	18	15
20 to 30 Feet	15	19	17	11	17	14	18	18	18	17	20	19	13	18	16
30 to 40 Feet	13	15	14	11	14	13	16	19	17	14	15	15	9	14	11
40 to 50 Feet	8	8	8	8	11	9	10	9	10	6	7	6	8	5	6
50 to 60 Feet	5	5	5	7	8	7	6	5	6	4	4	4	5	3	4
60 to 70 Feet	3	3	3	3	4	4	3	3	3	3	1	2	3	2	2
70 to 80 Feet	2	2	2	3	2	3	3	3	3	1	1	1	2	2	2
80 to 90 Feet	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1
90 to 100 Feet	1	1	1	1	1	1	1	0	1	2	0	1	2	1	1
above 100 Feet	19	12	16	29	15	22	12	11	12	15	9	12	22	12	17
Mean height Feet	56	43	50	73	52	63	46	45	45	47	36	42	59	48	49

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station M			328			325			318			316			322
AVG station -M/Kft			13			13			13			12			13
AVG sfc wind Kts	14	13	13	13	13	13	15	13	14	14	14	14	12	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 32 46 S 71 31 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 85543 32 46 S 71 31 W
Radiosonde station height: 7 Feet
Surface obs source: MS415 35 00 S 75 00 W

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	2	1	1	2	2	1	2	1	0	1	1	1	3	2
1 GHz	19	13	16	23	16	19	17	13	15	16	9	12	21	16	18
3 GHz	22	17	20	27	20	23	21	16	19	18	12	15	24	20	22
6 GHz	33	25	29	40	31	35	31	23	27	28	18	23	34	27	31
10 GHz	57	49	53	62	55	59	55	45	50	52	45	49	58	51	54
20 GHz	73	69	71	76	72	74	71	64	68	70	68	69	74	70	72

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	13	8	5	15	10	3	10	7	3	9	6	5	17	11
AVG thickness Kft			.38			.39			.41			.32			.40
AVG trap freq GHz			.77			.60			.51			1.4			.58
AVG lyr grd -N/Kft			108			75			93			172			93

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	40	41	40	36	42	39	46	40	43	39	40	40	38	42	40
AVG top ht Kft			3.5			3.8			3.1			3.0			4.0
AVG thickness Kft			.47			.45			.49			.48			.45
AVG trap freq GHz			.30			.33			.25			.27			.33
AVG lyr grd -N/Kft			63			60			66			67			60
AVG lyr base Kft			3.2			3.5			2.8			2.7			3.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	14	16	15	15	15	15	14	19	17	14	15	14	13	15	14
10 to 20 Feet	14	19	17	10	17	14	15	20	18	16	20	18	14	21	17
20 to 30 Feet	17	22	19	15	20	17	17	21	19	18	25	21	17	23	20
30 to 40 Feet	14	18	16	14	16	15	14	17	16	15	19	17	14	19	17
40 to 50 Feet	10	9	9	10	11	11	10	7	9	9	9	9	10	9	9
50 to 60 Feet	5	4	5	6	6	6	6	4	5	5	4	4	5	4	4
60 to 70 Feet	3	2	3	4	4	4	3	1	2	3	1	2	3	2	3
70 to 80 Feet	2	1	2	3	1	2	2	1	1	2	1	1	2	1	2
80 to 90 Feet	2	1	1	2	1	1	2	1	2	1	1	1	1	0	1
90 to 100 Feet	1	1	1	1	0	1	1	1	1	0	1	1	1	0	1
above 100 Feet	17	6	12	20	7	14	16	7	11	15	5	10	18	6	12
Mean height Feet	54	35	45	61	39	50	51	34	43	50	33	41	56	35	45

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			2			2			1			2
% occur 2+ EL dcts			6			5			6			5			7
AVG station N			333			336			333			330			332
AVG station -N/Kft			17			17			19			18			16
AVG sfc wind Kts	12	12	12	12	12	12	12	11	12	13	13	13	12	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 37 01 S 174 48 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 93119 37 01 S 174 48 E
Radiosonde station height: 23 Feet
Surface obs source: MS426 35 00 S 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0
1 GHz	19	8	13	25	11	18	16	8	12	13	5	9	20	8	14
3 GHz	24	10	17	32	15	23	22	11	17	17	6	11	25	10	18
6 GHz	44	28	36	51	33	42	47	33	40	37	21	29	43	23	33
10 GHz	68	58	63	71	61	66	70	63	67	66	56	61	65	52	59
20 GHz	78	72	75	80	73	76	80	74	77	78	73	75	75	67	71

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	4	5	9	5	7	5	3	4	4	2	3	4	4	4
AVG thickness Kft			.30			.37			.28			.25			.29
AVG trap freq GHz			1.3			.75			1.3			1.9			1.2
AVG lyr grd -N/Kft			119			124			108			161			91

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	17	15	16	30	25	28	8	11	10	8	7	8	20	17	19
AVG top ht Kft			5.1			4.8			5.4			5.0			4.9
AVG thickness Kft			.34			.40			.32			.29			.34
AVG trap freq GHz			.62			.44			.64			.80			.62
AVG lyr grd -N/Kft			57			57			56			57			60
AVG lyr base Kft			4.8			4.5			5.1			4.8			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	16	19	17	17	20	19	15	19	17	14	15	14	17	20	19
10 to 20 Feet	7	10	9	6	8	7	5	8	7	10	12	11	8	13	10
20 to 30 Feet	11	14	12	9	12	11	11	11	11	12	18	15	11	15	13
30 to 40 Feet	12	17	15	11	16	13	13	15	14	15	19	17	11	17	14
40 to 50 Feet	12	15	13	11	14	12	12	16	14	14	16	15	12	12	12
50 to 60 Feet	9	10	10	9	11	10	10	12	11	10	10	10	9	8	9
60 to 70 Feet	7	5	6	7	5	6	9	6	8	6	4	5	6	3	5
70 to 80 Feet	4	3	4	5	3	4	6	4	5	4	2	3	3	2	3
80 to 90 Feet	3	1	2	3	1	2	4	1	3	2	0	1	2	1	1
90 to 100 Feet	2	1	1	2	1	2	2	1	2	1	0	1	2	0	1
above 100 Feet	16	6	11	21	9	15	14	7	10	12	4	8	19	6	13
Mean height Feet	59	41	50	65	44	55	57	43	50	52	37	44	61	38	50

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			2			0			0			1
% occur 2+ EL dcts			1			1			0			0			1
AVG station N			338			345			337			330			338
AVG station -N/Kft			15			16			15			15			16
AVG sfc wind Kts	15	14	14	13	12	13	16	15	16	16	15	16	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 00 S 175 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 93119 37 01 S 174 48 E
Radiosonde station height: 23 Feet
Surface obs source: MS426 35 00 S 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0
1 GHz	19	8	13	25	11	18	16	8	12	13	5	9	20	8	14
3 GHz	24	10	17	32	15	23	22	11	17	17	6	11	25	10	18
6 GHz	44	28	36	51	33	42	47	33	40	37	21	29	43	23	33
10 GHz	68	58	63	71	61	66	70	63	67	66	56	61	65	52	59
20 GHz	78	72	75	80	73	76	80	74	77	78	73	75	75	67	71

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	4	5	9	5	7	5	3	4	4	2	3	4	4	4
AVG thickness Kft			.30			.37			.28			.25			.29
AVG trap freq GHz			1.3			.75			1.3			1.9			1.2
AVG lyr grd -N/Kft			119			124			100			161			91

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	17	15	16	30	25	28	8	11	10	8	7	8	20	17	19
AVG top ht Kft			5.1			4.8			5.4			5.0			4.9
AVG thickness Kft			.34			.40			.32			.29			.34
AVG trap freq GHz			.62			.44			.64			.80			.62
AVG lyr grd -N/Kft			57			57			56			57			60
AVG lyr base Kft			4.8			4.5			5.1			4.8			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURPENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&r	day	nit	d&n	day	nit	d&n
0 to 10 Feet	16	19	17	17	20	19	15	19	17	14	15	14	17	20	19
10 to 20 Feet	7	10	9	6	8	7	5	8	7	10	12	11	8	13	10
20 to 30 Feet	11	14	12	9	12	11	11	11	11	12	18	15	11	15	13
30 to 40 Feet	12	17	15	11	16	13	13	15	14	15	19	17	11	17	14
40 to 50 Feet	12	15	13	11	14	12	12	16	14	14	16	15	12	12	12
50 to 60 Feet	9	10	10	9	11	10	10	12	11	10	10	10	9	8	9
60 to 70 Feet	7	5	6	7	5	6	9	6	8	6	4	5	6	3	5
70 to 80 Feet	4	3	4	5	3	4	6	4	5	4	2	3	3	2	3
80 to 90 Feet	3	1	2	3	1	2	4	1	3	2	0	1	2	1	1
90 to 100 Feet	2	1	1	2	1	2	2	1	2	1	0	1	2	0	1
above 100 Feet	16	6	11	21	9	15	14	7	10	12	4	8	19	6	13
Mean height Feet	59	41	50	65	44	55	57	43	50	52	37	44	61	38	50

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			2			0			0			1
% occur 2+ EL dcts			1			1			0			0			1
AVG station H			338			345			337			330			338
AVG station -N/Kft			15			16			15			15			16
AVG sfc wind Kts	15	14	14	13	12	13	16	15	16	16	15	16	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 00 S 165 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94995 31 31 S 159 04 E
Radiosonde station height: 151 Feet
Surface obs source: MS427 35 00 S 165 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	3	0	1	2	0	1	1	0	1	2	0	1
1 GHz	24	6	15	32	7	20	24	5	14	16	4	10	25	6	16
3 GHz	31	8	20	41	11	26	32	7	19	22	6	14	31	8	20
6 GHz	56	32	44	64	38	51	58	35	47	49	27	38	51	27	39
10 GHz	78	66	72	82	70	76	82	69	75	78	69	73	71	56	63
20 GHz	86	80	83	88	83	86	89	84	86	87	83	85	80	71	76

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	0	7	17	0	9	17	0	9	9	0	5	13	0	7
AVG thickness Kft			.30			.34			.30			.23			.32
AVG trap freq GHz			.93			.58			1.2			1.1			.89
AVG lyr grd -N/Kft			136			104			193			130			116

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	8	15	32	0	16	15	33	24	11	0	6	26	0	13
AVG top ht Kft			5.5			5.5			5.4			5.9			5.3
AVG thickness Kft			.36			.46			.34			.26			.37
AVG trap freq GHz			.60			.40			.66			.84			.49
AVG lyr grd -N/Kft			60			56			60			64			58
AVG lyr base Kft			5.2			5.1			5.1			5.8			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	11	12	11	10	11	10	8	10	9	8	8	8	16	19	17
10 to 20 Feet	6	8	7	4	8	6	5	6	5	7	9	8	7	10	9
20 to 30 Feet	9	14	12	7	13	10	9	15	12	10	14	12	10	15	13
30 to 40 Feet	12	17	14	10	15	13	12	16	14	16	20	18	11	15	13
40 to 50 Feet	13	17	15	11	16	14	15	17	16	14	21	18	11	14	12
50 to 60 Feet	11	13	12	10	14	12	14	15	14	13	13	13	9	11	10
60 to 70 Feet	9	7	8	9	8	9	9	8	9	10	5	8	8	5	6
70 to 80 Feet	6	4	5	7	5	6	6	5	6	6	2	4	4	3	3
80 to 90 Feet	3	2	2	4	2	3	3	2	2	3	1	2	3	1	2
90 to 100 Feet	2	1	2	3	1	2	3	1	2	2	0	1	2	1	1
above 100 Feet	18	6	12	24	7	16	17	5	11	12	4	8	20	6	13
Mean height Feet	66	44	55	77	48	62	66	45	55	57	42	50	63	40	51

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			3			2			1			4
% occur 2+ EL dcts			1			2			0			1			3
AVG station N			338			350			337			326			339
AVG station -N/Kft			15			17			15			14			16
AVG sfc wind Kts	15	15	15	14	14	14	16	15	16	17	16	16	14	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 31 31 S 159 04 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94995 31 31 S 159 04 E
Radiosonde station height: 151 Feet
Surface obs source: MS428 35 00 S 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	2	0	1	3	0	1	2	0	1	1	0	1	2	0	1
1 GHz	23	7	15	32	9	21	21	7	14	14	5	9	25	7	16
3 GHz	32	11	22	44	15	29	33	13	23	21	8	15	32	10	21
6 GHz	61	42	52	72	50	61	63	46	55	54	39	46	57	35	46
10 GHz	83	74	79	86	78	82	86	76	81	83	75	79	78	67	73
20 GHz	90	85	87	90	86	88	92	87	89	91	86	89	85	79	82

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	14	0	7	17	0	9	17	0	9	9	0	5	13	0	7
AVG thickness Kft			.30			.34			.30			.23			.32
AVG trap freq GHz			.93			.58			1.2			1.1			.89
AVG lyr grd -N/Kft			136			104			193			130			116

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	8	15	3	0	16	15	33	24	11	0	6	26	0	13
AVG top ht Kft			5.5			5.5			5.4			5.9			5.0
AVG thickness Kft			.36			.46			.34			.26			.37
AVG trap freq GHz			.60			.40			.66			.84			.49
AVG lyr grd -N/Kft			60			56			60			64			58
AVG lyr base Kft			5.2			5.1			5.1			5.8			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	8	8	8	8	8	6	7	6	6	7	6	11	12	11
10 to 20 Feet	4	7	5	4	6	5	3	6	5	5	7	6	5	7	6
20 to 30 Feet	7	10	9	5	8	7	7	11	9	9	11	10	8	12	10
30 to 40 Feet	11	14	12	8	12	10	11	13	12	13	16	15	11	15	13
40 to 50 Feet	14	18	16	9	16	13	15	17	16	18	21	19	13	17	15
50 to 60 Feet	13	15	14	12	16	14	15	16	15	16	17	16	11	12	12
60 to 70 Feet	11	10	10	11	11	11	11	11	11	11	9	10	9	8	9
70 to 80 Feet	8	6	7	9	8	9	8	7	7	7	5	6	7	5	6
80 to 90 Feet	5	3	4	6	4	5	6	4	5	4	2	3	3	2	2
90 to 100 Feet	3	2	2	4	2	3	3	2	3	2	1	2	2	1	1
above 100 Feet	17	7	12	24	9	17	15	7	11	10	5	8	19	7	13
Mean Height Feet	68	51	60	79	56	68	67	52	60	59	48	53	68	49	58

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			2			3			2			1			4
% occur 2+ EL dcts			1			2			0			1			3
AVG station N			338			350			337			326			339
AVG station -N/Kft			15			17			15			14			16
AVG sfc wind Kts	16	15	15	15	15	15	16	15	15	16	15	16	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 34 57 S 150 31 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94750 34 57 S 150 31 E
Radiosonde station height: 354 Feet
Surface obs source: MS428 35 00 S 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	1	0	0	0	3	2	0	0	0	1	0	0
1 GHz	18	10	14	26	9	18	16	17	17	11	5	8	21	7	14
3 GHz	27	15	21	37	15	26	25	28	26	17	8	12	27	10	19
6 GHz	58	45	52	68	50	59	58	57	58	51	39	45	54	35	44
10 GHz	81	76	78	84	78	81	84	82	83	81	75	78	76	67	72
20 GHz	88	85	87	89	86	88	90	90	90	90	86	88	84	79	82

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	8	6	7	0	4	3	33	18	1	0	1	7	0	4
AVG thickness Kft			.18			.21			.18			.19			.13
AVG trap freq GHz			2.1			2.5			2.5			2.1			2.1
AVG lyr grd -N/Kft			171			176			235			95			178

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	0	8	23	0	12	13	0	7	5	0	3	19	0	10
AVG top ht Kft			6.0			6.5			5.8			5.3			6.4
AVG thickness Kft			.29			.40			.23			.32			.21
AVG trap freq GHz			1.1			.45			1.2			1.2			1.5
AVG lyr grd -N/Kft			58			61			58			59			53
AVG lyr base Kft			5.8			6.2			5.6			5.0			6.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	9	8	8	8	8	6	7	6	5	7	6	11	12	11
10 to 20 Feet	4	7	5	4	6	5	3	6	5	5	7	6	5	7	6
20 to 30 Feet	7	10	9	5	8	7	7	11	9	9	11	10	8	12	10
30 to 40 Feet	11	14	12	8	12	10	11	13	12	13	16	15	11	15	13
40 to 50 Feet	14	18	16	9	16	13	15	17	16	18	21	19	13	17	15
50 to 60 Feet	13	15	14	12	16	14	15	16	15	16	17	16	11	12	12
60 to 70 Feet	11	10	10	11	11	11	11	11	11	11	9	10	9	8	9
70 to 80 Feet	8	6	7	9	8	9	8	7	7	7	5	6	7	5	6
80 to 90 Feet	5	3	4	6	4	5	6	4	5	4	2	3	3	2	2
90 to 100 Feet	3	2	2	4	2	3	3	2	3	2	1	2	2	1	1
above 100 Feet	17	7	12	24	9	17	15	7	11	10	5	8	19	7	13
Mean height Feet	68	51	60	79	56	68	67	52	60	59	48	53	68	49	58

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			1			2			0			1			0
AVG station N			323			336			322			310			322
AVG station -N/Kft			13			14			13			12			13
AVG sfc wind Kts	16	15	15	15	15	15	16	15	15	16	15	16	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 32 49 S 151 49 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94776 32 49 S 151 49 E
Radiosonde station height: 30 Feet
Surface obs source: MS428 35 00 S 155 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	1	1	1	0	1	1	0	0	0	0	2	1
1 GHz	18	11	15	26	13	19	16	10	13	11	6	8	21	14	17
3 GHz	26	16	21	37	19	28	25	17	21	17	9	13	26	19	22
6 GHz	57	46	52	68	53	60	58	49	54	51	40	45	53	42	47
10 GHz	81	76	79	84	79	82	84	77	81	81	76	79	76	71	73
20 GHz	88	86	87	89	87	88	90	88	89	90	87	88	84	82	83

SUPFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	7	5	4	6	5	2	7	5	1	3	2	3	12	8
AVG thickness Kft			.31			.28			.34			.27			.35
AVG trap freq GHz			.07			.57			.80			1.4			.67
AVG lyr grd -N/Kft			190			105			208			287			120

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	13	12	18	24	21	9	11	10	6	6	6	13	11	12
AVG top ht Kft			5.3			6.2			4.6			6.0			4.6
AVG thickness Kft			.31			.39			.24			.22			.37
AVG trap freq GHz			.87			.47			.87			1.5			.66
AVG lyr grd -N/Kft			59			58			59			60			58
AVG lyr base Kft			5.1			5.9			4.4			5.8			4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	8	8	8	8	8	6	7	6	6	7	6	11	12	11
10 to 20 Feet	4	7	5	4	6	5	3	6	5	5	7	6	5	7	6
20 to 30 Feet	7	10	9	5	8	7	7	11	9	9	11	10	8	12	10
30 to 40 Feet	11	14	12	8	12	10	11	13	12	13	16	15	11	15	13
40 to 50 Feet	14	18	16	9	16	13	15	17	16	18	21	19	13	17	15
50 to 60 Feet	13	15	14	12	16	14	15	16	15	16	17	16	11	12	12
60 to 70 Feet	11	10	10	11	11	11	11	11	11	11	9	10	9	8	9
70 to 80 Feet	8	6	7	9	8	9	8	7	7	7	5	6	7	5	6
80 to 90 Feet	5	3	4	6	4	5	6	4	5	4	2	3	3	2	2
90 to 100 Feet	3	2	2	4	2	3	3	2	3	2	1	2	2	1	1
above 100 Feet	17	7	12	24	9	17	15	7	11	10	5	8	19	7	13
Mean height Feet	68	51	60	79	56	68	67	52	60	59	48	53	68	49	58

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			0			1
% occur 2+ EL dcts			1			2			1			0			1
AVG station N			332			346			329			320			332
AVG station -N/Kft			14			15			14			13			14
AVG sfc wind Kts	16	15	15	15	15	15	16	15	15	16	15	16	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 37 52 S 144 45 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94865 37 52 S 144 45 E
Radiosonde station height: 46 Feet
Surface obs source: MS430 38 00 S 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 GHz	15	8	11	24	10	17	9	8	8	7	5	6	19	9	14
3 GHz	19	11	15	29	13	21	12	10	11	11	7	9	24	12	18
6 GHz	41	26	34	55	33	44	36	28	32	29	21	25	42	24	33
10 GHz	74	64	69	82	70	76	71	66	69	71	63	67	72	59	66
20 GHz	87	82	85	91	84	87	86	83	85	87	84	85	85	79	82

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	8	7	6	7	7	5	8	7	4	5	5	7	10	9
AVG thickness Kft			.29			.32			.26			.29			.28
AVG trap freq GHz			.92			.63			1.1			.95			1.0
AVG lyr grd -N/Kft			124			94			94			192			116

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	16	19	17	24	33	29	10	13	12	8	9	9	20	22	21
AVG top ht Kft			5.0			5.1			5.4			4.9			4.7
AVG thickness Kft			.25			.35			.22			.20			.25
AVG trap freq GHz			1.2			.59			1.7			1.6			1.1
AVG lyr grd -N/Kft			59			55			68			62			58
AVG lyr base Kft			4.8			4.8			5.3			4.7			4.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	6	7	7	5	6	6	6	7	6	6	7	6	7	10	9
10 to 20 Feet	7	11	9	5	11	8	8	10	9	8	11	9	8	13	11
20 to 30 Feet	14	19	17	10	15	13	15	19	17	17	22	19	14	21	18
30 to 40 Feet	17	23	20	13	21	17	17	22	20	22	25	23	17	24	21
40 to 50 Feet	18	17	17	16	19	17	19	18	19	21	19	20	15	13	14
50 to 60 Feet	12	10	11	13	11	12	15	11	13	12	10	11	10	8	9
60 to 70 Feet	6	4	5	9	7	8	6	5	6	5	3	4	6	3	4
70 to 80 Feet	4	2	3	5	3	4	3	2	3	3	1	2	3	1	2
80 to 90 Feet	2	1	1	3	1	2	2	1	1	2	1	1	2	1	1
90 to 100 Feet	1	0	1	2	1	1	1	0	1	1	0	1	2	0	1
above 100 Feet	12	4	8	21	6	13	7	4	5	5	3	4	16	4	10
Mean height Feet	56	40	48	71	44	58	48	42	45	45	37	41	60	38	49

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			1			1			1
% occur 2+ EL dcts			2			2			1			1			3
AVG station H			327			333			328			322			325
AVG station -N/Kft			14			15			15			14			14
AVG sfc wind Kts	15	14	14	13	12	13	15	14	15	17	16	17	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 34 57 S 138 31 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94672 34 57 S 138 31 E
Radiosonde station height: 20 Feet
Surface obs source: MS430 35 00 S 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	2	1	1	1	1	0	1	1	1	1	1
1 GHz	15	9	12	25	11	18	9	9	9	7	6	6	19	8	14
3 GHz	19	11	15	30	15	23	12	12	12	10	7	9	24	11	17
6 GHz	41	27	34	55	35	45	36	30	33	29	21	25	42	23	33
10 GHz	74	65	69	82	71	76	71	66	69	71	63	67	72	59	65
20 GHz	87	83	85	91	85	88	86	84	85	87	84	85	85	78	82

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	9	7	8	10	9	4	10	7	4	6	5	7	9	8
AVG thickness Kft			.26			.26			.25			.26			.25
AVG trap freq GHz			1.0			.65			.84			1.4			1.1
AVG lyr grd -N/Kft			116			135			94			102			134

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	14	14	21	20	21	11	13	12	8	8	8	19	13	16
AVG top ht Kft			4.8			4.7			4.6			5.2			4.5
AVG thickness Kft			.31			.31			.31			.30			.33
AVG trap freq GHz			.62			.51			.66			.73			.59
AVG lyr grd -N/Kft			58			61			56			56			60
AVG lyr base Kft			4.5			4.5			4.4			4.9			4.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	6	7	7	5	6	6	6	7	6	6	7	6	7	10	9
10 to 20 Feet	7	11	9	5	11	8	8	10	9	8	11	9	8	13	11
20 to 30 Feet	14	19	17	10	15	13	15	19	17	17	22	19	14	21	18
30 to 40 Feet	17	23	20	13	21	17	17	22	20	22	25	23	17	24	21
40 to 50 Feet	18	17	17	16	19	17	19	18	19	21	19	20	15	13	14
50 to 60 Feet	12	10	11	13	11	12	15	11	13	12	10	11	10	8	9
60 to 70 Feet	6	4	5	9	7	8	6	5	6	5	3	4	6	3	4
70 to 80 Feet	4	2	3	5	3	4	3	2	3	3	1	2	3	1	2
80 to 90 Feet	2	1	1	3	1	2	2	1	1	2	1	1	2	1	1
90 to 100 Feet	1	0	1	2	1	1	1	0	1	1	0	1	2	0	1
above 100 Feet	12	4	8	21	6	13	7	4	5	5	3	4	16	4	10
Mean height Feet	56	40	48	71	44	58	48	42	45	45	37	41	68	36	49

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			1			1
% occur 2+ EL dcts			1			2			0			0			2
AVG station N			323			324			324			323			320
AVG station -N/Kft			13			13			13			13			13
AVG sfc wind Kts	15	14	14	13	12	13	15	14	15	17	16	17	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 33 49 S 121 52 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94638 33 49 S 121 52 E
Radiosonde station height: 79 Feet
Surface obs source: MS431 35 00 S 125 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
1 GHz	12	5	9	17	6	12	9	4	7	7	3	5	17	6	11
3 GHz	16	6	11	22	8	15	12	5	9	9	4	6	21	7	14
6 GHz	40	24	32	49	29	39	39	28	34	30	20	25	42	21	32
10 GHz	74	65	69	79	71	75	75	69	72	70	61	65	71	58	65
20 GHz	87	83	85	89	86	88	88	86	87	86	80	83	85	79	82

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	0	1	1	0	1	1	0	1	2	0	1	5	0	3
AVG thickness Kft			.29			.18			.44			.30			.25
AVG trap freq GHz			2.1			3.7			.32			2.8			1.7
AVG lyr grd -N/Kft			124			183			107			136			70

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	0	11	42	0	21	15	0	8	9	0	5	18	0	9
AVG top ht Kft			4.7			4.9			4.9			5.7			3.2
AVG thickness Kft			.28			.39			.26			.16			.30
AVG trap freq GHz			1.5			.44			1.3			3.3			.77
AVG lyr grd -N/Kft			56			62			58			48			56
AVG lyr base Kft			4.5			4.7			4.7			5.6			2.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	6	6	5	6	6	4	4	4	5	6	6	7	9	8
10 to 20 Feet	8	11	9	6	8	7	8	9	8	9	13	11	9	13	11
20 to 30 Feet	14	18	16	10	16	13	14	17	16	17	19	18	14	20	17
30 to 40 Feet	17	22	19	14	21	17	18	22	20	20	24	22	14	21	18
40 to 50 Feet	17	19	18	16	21	18	18	20	19	19	18	19	16	16	16
50 to 60 Feet	13	11	12	13	12	13	14	13	13	13	10	12	11	9	10
60 to 70 Feet	8	5	6	9	6	7	9	7	8	6	4	5	7	3	5
70 to 80 Feet	4	2	3	5	4	4	5	3	4	2	2	2	4	1	3
80 to 90 Feet	2	1	1	3	1	2	1	1	1	1	0	1	2	1	2
90 to 100 Feet	1	1	1	2	1	1	1	1	1	0	0	0	2	0	1
above 100 Feet	12	5	8	17	6	11	8	4	6	6	3	5	15	6	10
Mean height Feet	56	42	49	65	46	55	53	44	48	46	39	42	60	48	50

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			1			0
% occur 2+ EL dcts			2			5			1			0			2
AVG station H			326			330			325			321			326
AVG station -N/Kft			13			14			13			13			14
AVG sfc wind Kts	15	14	14	13	12	13	15	14	15	17	16	16	14	12	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 34 57 S 117 48 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94802 34 57 S 117 48 E
Radiosonde station height: 223 Feet
Surface obs source: MS432 35 00 S 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	1	0	0	1	0	0	0	0	0	2	0	1
1 GHz	16	5	11	21	7	14	13	6	10	10	3	6	21	5	13
3 GHz	24	8	16	31	11	21	22	10	16	15	5	10	28	7	18
6 GHz	58	41	50	63	44	54	60	48	54	50	37	44	58	37	48
10 GHz	87	80	83	87	80	83	89	83	86	86	80	83	86	77	82
20 GHz	94	91	93	93	90	92	95	93	94	95	92	93	94	91	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	0	4	9	0	5	9	0	5	5	0	3	12	0	6
AVG thickness Kft			.24			.30			.17			.24			.26
AVG trap freq GHz			1.7			1.6			1.8			2.4			.95
AVG lyr grd -N/Kft			143			92			160			200			119

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	25	0	12	37	0	19	18	0	9	12	0	6	32	0	16
AVG top ht Kft			5.3			4.6			5.2			5.5			4.6
AVG thickness Kft			.33			.44			.27			.28			.33
AVG trap freq GHz			.68			.40			.79			.87			.68
AVG lyr grd -N/Kft			59			60			64			57			55
AVG lyr base Kft			4.7			4.2			5.0			5.2			4.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	3	3	4	4	4	2	3	2	2	2	2	4	3	3
10 to 20 Feet	3	5	4	4	5	4	3	4	4	3	5	4	3	6	5
20 to 30 Feet	8	12	10	7	11	9	7	10	8	9	12	10	9	14	11
30 to 40 Feet	13	17	15	10	15	13	12	15	13	16	18	17	13	21	17
40 to 50 Feet	18	21	20	15	20	18	18	20	19	21	25	23	18	20	19
50 to 60 Feet	17	18	18	14	17	15	19	19	19	18	20	19	17	18	17
60 to 70 Feet	11	10	11	12	11	11	13	12	13	11	8	10	9	8	9
70 to 80 Feet	7	5	6	8	6	7	8	6	7	7	4	5	6	4	5
80 to 90 Feet	4	2	3	6	2	4	5	3	4	3	1	2	4	1	3
90 to 100 Feet	2	1	2	3	1	2	2	2	2	2	1	1	2	1	1
above 100 Feet	13	5	9	18	7	13	10	6	8	8	3	6	16	5	10
Mean height Feet	65	51	58	72	54	63	63	54	59	57	48	53	67	48	57

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SP dcts			2			2			2			1			4
% occur 2+ EL dcts			2			3			1			0			3
AVG station N			328			334			327			322			329
AVG station -N/Kft			15			15			14			14			15
AVG sfc wind Kts	16	15	15	15	15	15	16	15	16	17	15	16	15	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 31 55 S 115 58 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94610 31 55 S 115 58 E
Radiosonde station height: 56 Feet
Surface obs source: MS432 35 00 S 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	1	1	1	1	1	1	0	1	1	2	0	1
1 GHz	16	8	12	21	10	15	12	10	11	10	7	8	21	7	14
3 GHz	23	12	18	30	14	22	20	16	18	15	10	13	28	9	19
6 GHz	57	44	51	62	47	54	59	51	55	50	41	46	58	38	48
10 GHz	87	81	84	87	81	84	88	84	86	86	81	83	86	78	82
20 GHz	94	92	93	93	91	92	95	93	94	94	92	93	94	91	93

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	6	6	6	5	6	5	9	7	3	8	6	10	3	7
AVG thickness Kft			.29			.29			.27			.31			.31
AVG trap freq GHz			.90			.79			1.2			1.0			.59
AVG lyr grd -N/Kft			133			96			130			175			130

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	21	23	22	32	37	35	15	19	17	12	15	14	24	19	22
AVG top ht Kft			5.1			4.8			5.3			5.5			4.6
AVG thickness Kft			.34			.41			.33			.26			.35
AVG trap freq GHz			.63			.36			.66			.94			.55
AVG lyr grd -N/Kft			60			61			60			58			59
AVG lyr base Kft			4.8			4.5			5.1			5.3			4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	3	3	4	4	4	2	3	2	2	2	2	4	3	3
10 to 20 Feet	3	5	4	4	5	4	3	4	4	3	5	4	3	6	5
20 to 30 Feet	8	12	10	7	11	9	7	10	8	9	12	10	9	14	11
30 to 40 Feet	13	17	15	10	15	13	12	15	13	16	18	17	13	21	17
40 to 50 Feet	18	21	20	15	20	18	18	20	19	21	25	23	18	20	19
50 to 60 Feet	17	18	18	14	17	15	19	19	19	18	20	19	17	18	17
60 to 70 Feet	11	10	11	12	11	11	13	12	13	11	8	10	9	8	9
70 to 80 Feet	7	5	6	8	6	7	8	6	7	7	4	5	6	4	5
80 to 90 Feet	4	2	3	6	2	4	5	3	4	3	1	2	4	1	3
90 to 100 Feet	2	1	2	3	1	2	2	2	2	2	1	1	2	1	1
above 100 Feet	13	3	9	18	7	13	10	6	8	8	3	6	16	5	10
Mean height Feet	65	51	58	72	54	63	63	54	59	57	48	53	67	48	57

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			2			1
% occur 2+ EL dcts			2			4			0			1			2
AVG station N			326			325			328			325			324
AVG station -N/Kft			14			13			14			14			14
AVG sfc wind Kts	16	15	15	15	15	15	16	15	16	17	15	16	15	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 37 48 S 77 31 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 61996 37 48 S 77 31 E
Radiosonde station height: 89 Feet
Surface obs source: MS402 25 00 S 55 00 E

PERCENT OCCURRENCE OF ENHANCED SURFA

FREQUENCY	YEARLY			JA		
	day	nit	d&n	day	ni	
100 MHz	0	0	0	0	1	
1 GHz	^3	9	21	38	11	25
3 GHz	45	17	31	49	19	34
6 GHz	77	58	68	79	61	70
10 GHz	93	87	90	93	88	90
20 GHz	96	95	96	97	94	96

SUFFACE RADAR/ESM/COM RANGES:

	APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	1	0	0
1 GHz	27	8	18	25	6	15	42	10	26
3 GHz	40	19	30	37	13	25	52	16	34
6 GHz	78	62	70	75	57	66	78	50	64
10 GHz	93	88	91	93	88	90	92	85	89
20 GHz	96	96	96	97	95	96	96	93	94

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	3	2	0	7	4	0	3	2	0	1	1	5	2	4
AVG thickness Kft			.27			.54			.10			.29			.15
AVG trap freq GHz			2.0			1.7			4.1			.74			1.6
AVG lyr grd -N/Kft			151			122			178			133			170

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	17	18	17	0	23	12	22	14	18	11	9	10	33	24	29
AVG top ht Kft			4.5			4.7			4.2			4.3			4.7
AVG thickness Kft			.37			.42			.32			.32			.42
AVG trap freq GHz			.78			.47			1.4			.93			.35
AVG lyr grd -N/Kft			58			57			61			55			61
AVG lyr base Kft			4.2			4.4			4.0			4.0			4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	2	2	2	2	1	1	2	2	2	2	2	2
10 to 20 Feet	1	4	3	1	4	3	1	2	2	1	4	3	1	4	3
20 to 30 Feet	4	7	6	4	7	5	3	8	5	4	7	5	4	8	6
30 to 40 Feet	6	12	9	5	11	8	5	10	8	8	12	10	6	15	10
40 to 50 Feet	9	19	14	9	18	13	10	16	13	10	19	15	9	21	15
50 to 60 Feet	12	18	15	11	18	14	14	17	15	14	20	17	9	16	13
60 to 70 Feet	12	14	13	11	15	13	12	15	14	13	15	14	10	12	11
70 to 80 Feet	9	9	9	8	10	9	12	11	12	10	10	10	8	7	7
80 to 90 Feet	7	5	6	7	4	5	8	6	7	9	5	7	5	3	4
90 to 100 Feet	5	3	4	5	3	4	6	4	5	4	2	3	4	2	3
above 100 Feet	33	8	20	38	9	23	27	8	17	25	6	15	41	10	25
Mean height Feet	94	60	77	100	60	80	88	62	75	85	58	71	106	60	83

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			1			0			0			3
% occur 2+ EL dcts			:			3			1			1			1
AVG station N			334			340			336			328			331
AVG station -N/Kft			14			15			14			13			13
AVG sfc wind Kts	13	12	12	14	13	13	13	12	13	14	12	13	11	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 29 58 S 30 57 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 68588 29 58 S 30 57 E
Radiosonde station height: 26 Feet
Surface obs source: MS440 35 00 S 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	1	1	0	1	0	1	1	1	1	1	1	1	1	1
1 GHz	20	10	15	23	11	17	20	12	16	14	10	12	23	9	16
3 GHz	30	18	24	35	19	27	31	20	25	22	17	19	33	15	24
6 GHz	63	52	58	67	55	61	68	59	63	57	49	53	62	47	54
10 GHz	85	81	83	86	82	84	90	86	88	83	81	82	82	76	79
2E GHz	92	90	91	92	89	91	95	94	94	92	91	91	89	86	88

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	7	6	4	6	5	5	6	6	3	7	5	8	8	8
AVG thickness Kft			.34			.14			.36			.46			.38
AVG trap freq GHz			1.0			2.0			.50			.41			1.0
AVG lyr grd -N/Kft			187			208			168			211			161

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	9	8	11	17	14	5	7	6	4	5	5	11	5	8
AVG top ht Kft			4.3			5.0			3.6			3.8			5.0
AVG thickness Kft			.50			.50			.57			.53			.39
AVG trap freq GHz			.50			.42			.36			.45			.77
AVG lyr grd -N/Kft			59			58			59			61			58
AVG lyr base Kft			4.0			4.6			3.1			3.4			4.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	5	5	5	6	5	3	2	3	4	4	4	7	7	7
10 to 20 Feet	4	6	5	3	5	4	2	4	3	4	6	5	5	8	6
20 to 30 Feet	7	10	8	6	8	7	5	8	7	8	11	10	8	12	10
30 to 40 Feet	9	13	11	8	12	10	9	12	10	11	15	13	9	15	12
40 to 50 Feet	13	17	15	11	16	14	14	17	16	16	19	17	12	16	14
50 to 60 Feet	14	16	15	13	16	14	15	18	16	15	16	16	12	14	13
60 to 70 Feet	12	13	12	11	14	12	14	14	14	12	11	12	10	12	11
70 to 80 Feet	9	8	8	9	7	8	10	9	10	8	7	8	8	7	7
80 to 90 Feet	6	4	5	7	4	6	6	5	5	5	4	4	6	3	4
90 to 100 Feet	4	2	3	4	3	3	5	3	4	3	2	2	4	2	3
above 100 Feet	18	7	12	22	9	16	17	8	12	12	5	9	19	5	12
Mean height Feet	71	54	62	77	57	67	72	58	65	63	51	57	71	50	60

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			1
% occur 2+ EL dcts			0			1			0			0			0
AVG station N			348			365			340			332			354
AVG station -N/Kft			15			15			15			13			15
AVG sfc wind Kts	16	15	15	15	14	14	16	15	15	17	16	16	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 33 58 S 25 36 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 68842 33 58 S 25 36 E
Radiosonde station height: 226 Feet
Surface obs source: MS441 35 00 S 25 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0
1 GHz	20	8	14	23	9	16	22	11	16	16	7	11	20	5	12
3 GHz	28	13	20	32	14	23	30	16	23	23	10	17	27	9	18
6 GHz	57	41	49	58	43	51	59	44	51	55	40	47	56	38	47
10 GHz	80	71	76	77	68	72	82	74	78	82	74	78	79	70	75
20 GHz	88	83	86	84	79	81	90	85	88	91	86	89	88	83	85

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	0	2	8	0	4	4	0	2	3	0	2	4	0	2
AVG thickness Kft			.36			.31			.24			.45			.43
AVG trap freq GHz			.72			1.4			.60			.51			.34
AVG lyr grd -N/Kft			299			449			194			244			310

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	0	3	13	0	7	4	0	2	2	0	1	4	0	2
AVG top ht Kft			4.7			4.7			3.1			6.0			4.8
AVG thickness Kft			.42			.52			.46			.35			.35
AVG trap freq GHz			.80			.26			.51			1.9			.49
AVG lyr grd -N/Kft			59			65			56			55			59
AVG lyr base Kft			4.3			4.4			2.7			5.7			4.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	8	8	12	13	12	5	7	6	4	5	5	7	8	8
10 to 20 Feet	5	8	7	6	8	7	5	8	7	5	8	6	6	9	7
20 to 30 Feet	8	12	10	7	11	9	8	12	10	10	12	11	9	13	11
30 to 40 Feet	11	14	13	9	12	10	11	15	13	13	16	14	11	15	13
40 to 50 Feet	13	16	15	11	13	12	13	15	14	15	19	17	13	17	15
50 to 60 Feet	12	14	13	11	13	12	12	12	12	13	15	14	12	14	13
60 to 70 Feet	10	9	9	9	9	9	10	9	10	11	9	10	10	9	9
70 to 80 Feet	7	6	7	7	7	7	7	6	7	8	5	7	7	5	6
80 to 90 Feet	4	3	4	5	3	4	5	3	4	4	2	3	4	2	3
90 to 100 Feet	3	2	2	3	2	3	3	2	3	3	1	2	3	1	2
above 100 Feet	18	8	13	20	9	15	20	11	15	15	7	11	17	5	11
Mean height Feet	68	52	60	69	52	60	72	57	64	66	51	59	67	47	57

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			1			1			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			335			348			334			324			334
AVG station -N/Kft			14			15			15			13			14
AVG sfc wind Kts	16	15	15	15	14	14	15	14	14	17	16	17	17	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 35 00 S 15 00 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 68406 28 34 S 16 31 E
Radiosonde station height: 89 Feet
Surface obs source: MS442 35 00 S 15 00 E

PERCENT OCCURPENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	0	1	1	0	1	2	0	1	1	0	1
1 GHz	23	7	15	23	6	15	26	10	18	23	5	14	20	6	13
3 GHz	29	9	19	30	9	19	32	12	22	28	7	18	26	8	17
6 GHz	51	29	40	51	32	41	53	31	42	50	25	37	48	28	38
10 GHz	74	62	68	72	62	67	75	63	69	77	61	69	72	62	67
20 GHz	84	79	82	81	76	79	85	79	82	88	81	85	84	79	82

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	1	5	10	0	5	7	0	4	12	0	6	6	3	5
AVG thickness Kft			.43			.43			.50			.47			.34
AVG trap freq GHz			.61			.75			.35			.70			.65
AVG lyr grd -N/Kft			125			162			111			109			116

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	12	4	8	19	0	10	8	0	4	9	0	5	13	15	14
AVG top ht Kft			3.1			3.1			2.2			4.0			3.1
AVG thickness Kft			.47			.60			.47			.22			.58
AVG trap freq GHz			.71			.37			.37			1.8			.33
AVG lyr grd -N/Kft			59			56			56			53			69
AVG lyr base Kft			2.8			2.7			1.8			3.8			2.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	10	9	10	14	15	14	9	10	10	7	7	7	10	9	9
10 to 20 Feet	7	11	9	7	10	8	7	12	9	7	12	10	8	12	10
20 to 30 Feet	11	17	14	10	14	12	11	16	14	12	20	16	12	18	15
30 to 40 Feet	13	18	16	11	15	13	12	17	15	15	21	18	13	20	16
40 to 50 Feet	12	15	14	11	15	13	12	14	13	15	16	15	12	15	14
50 to 60 Feet	10	11	11	10	12	11	10	10	10	12	10	11	11	11	11
60 to 70 Feet	7	6	7	8	7	7	7	6	7	7	5	6	7	6	7
70 to 80 Feet	5	3	4	5	4	5	5	3	4	5	2	3	5	3	4
80 to 90 Feet	3	1	2	3	2	3	3	1	2	2	1	2	3	1	2
90 to 100 Feet	2	1	1	2	1	2	2	1	1	2	1	1	2	1	1
above 100 Feet	19	6	12	18	6	12	22	10	16	17	5	11	17	4	11
Mean height Feet	64	43	54	62	44	53	69	48	58	63	42	53	63	40	51

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			0			1			1
% occur 2+ EL dcts			1			2			1			0			0
AVG station N			333			341			329			326			335
AVG station -N/Kft			15			17			14			15			16
AVG sfc wind Kts	15	14	15	16	15	15	14	13	14	15	14	14	16	16	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 40 21 S 9 52 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 68906 40 21 S 9 52 W
Radiosonde station height: 177 Feet
Surface obs source: MS407 25 00 S 5 00 E

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
1 GHz	25	8	17	31	11	21	26	7	17	19	4	12	25	9	17
3 GHz	33	12	23	40	18	29	35	12	23	25	7	16	31	14	22
6 GHz	61	44	52	69	56	63	64	46	55	55	35	45	57	38	47
10 GHz	86	81	84	89	87	88	88	83	85	85	78	81	84	77	80
20 GHz	93	93	93	94	94	94	95	93	94	93	92	93	92	91	91

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	3	2	1	3	2	1	0	1	1	0	1	1	7	4
AVG thickness Kft			.42			.71			.28			.32			.39
AVG trap freq GHz			.73			.29			1.0			.59			1.0
AVG lyr grd -N/Kft			147			121			234			101			131

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	22	37	29	30	56	43	24	45	35	15	19	17	17	29	23
AVG top ht Kft			4.7			4.6			4.9			4.4			4.8
AVG thickness Kft			.44			.58			.45			.31			.41
AVG trap freq GHz			.39			.20			.32			.68			.38
AVG lyr grd -N/Kft			64			70			64			61			61
AVG lyr base Kft			4.4			4.3			4.5			4.1			4.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	3	3	3	2	2	3	2	2	3	3	3	4	4	4
10 to 20 Feet	4	5	4	3	4	3	3	5	4	4	6	5	4	6	5
20 to 30 Feet	7	12	10	5	8	6	7	10	9	9	14	12	8	15	12
30 to 40 Feet	11	18	15	8	13	10	10	17	14	14	21	18	12	20	16
40 to 50 Feet	14	20	17	12	19	16	14	20	17	16	22	19	15	21	18
50 to 60 Feet	13	16	15	12	19	15	12	17	14	15	16	15	13	14	14
60 to 70 Feet	9	10	10	10	13	12	10	11	10	9	8	8	8	7	8
70 to 80 Feet	6	6	6	8	8	8	~	7	7	5	5	5	5	4	4
80 to 90 Feet	4	3	3	5	4	5	5	3	4	3	2	3	3	2	3
90 to 100 Feet	3	2	2	4	2	3	3	2	2	3	1	2	2	1	2
above 100 Feet	25	7	16	30	9	20	26	7	17	19	4	11	24	6	15
Mean height Feet	80	53	67	89	60	75	82	55	69	70	47	59	79	49	64

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			1
% occur 2+ EL dcts			2			2			2			1			2
AVG station H			328			334			327			321			330
AVG station -h/Kft			13			14			13			12			14
AVG sfc wind kts	14	14	14	14	15	15	14	13	13	16	15	15	14	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45 00 S 55 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 87748 38 43 S 62 10 W
Radiosonde station height: 246 Feet
Surface obs source: MS449 45 00 S 55 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	0	1	1	0	1	0	0	0	1	0	1
1 GHz	9	4	7	12	5	8	7	4	5	7	5	6	11	4	7
3 GHz	12	6	9	15	6	10	10	5	8	8	7	7	14	5	9
6 GHz	20	13	16	24	16	20	19	11	15	14	10	12	23	13	18
10 GHz	37	31	34	43	37	40	34	27	31	31	24	27	42	34	38
20 GHz	52	48	50	55	54	55	49	46	48	47	40	44	55	50	53

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	3	4	9	2	6	6	3	5	3	3	3	6	3	5
AVG thickness Kft			.20			.23			.18			.27			.13
AVG trap freq GHz			1.1			1.4			.84			1.1			1.3
AVG lyr grd -N/Kft			171			200			126			182			176

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	4	2	3	3	2	3	1	1	1	1	1	1
AVG top ht Kft			4.2			3.8			6.0			5.1			2.0
AVG thickness Kft			.37			.49			.22			.42			.37
AVG trap freq GHz			1.2			2.0			1.6			.43			1.0
AVG lyr grd -N/Kft			63			67			59			65			59
AVG lyr base Kft			4.0			3.5			5.8			4.8			1.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	30	31	31	30	30	30	32	32	32	28	33	30	29	31	30
10 to 20 Feet	22	23	22	18	18	18	22	24	23	27	29	28	19	20	19
20 to 30 Feet	15	17	16	13	17	15	16	19	17	16	17	17	14	17	15
30 to 40 Feet	11	11	11	11	12	11	11	12	11	11	10	11	12	12	12
40 to 50 Feet	7	7	7	8	9	9	5	5	5	6	3	5	7	9	8
50 to 60 Feet	4	4	4	5	5	5	4	3	4	3	3	3	5	4	4
60 to 70 Feet	3	2	2	3	3	3	2	2	2	2	1	1	3	2	2
70 to 80 Feet	1	1	1	2	2	2	1	1	1	1	1	1	2	2	2
80 to 90 Feet	1	0	1	1	0	0	1	0	1	0	1	1	1	0	1
90 to 100 Feet	1	0	0	1	0	0	1	0	0	0	1	0	1	0	1
above 100 Feet	7	3	5	8	4	6	4	2	3	6	3	4	8	3	5
Mean height Feet	31	25	28	34	29	32	27	23	25	28	23	25	35	26	30

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			320			325			318			316			322
AVG station -N/Kft			13			13			13			12			13
AVG sfc wind Kts	15	15	15	15	15	15	15	14	15	16	14	15	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 45 46 S 67 27 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 87860 45 46 S 67 27 W
Radiosonde station height: 190 Feet
Surface obs source: MS450 45 00 S 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
1 GHz	21	13	17	30	16	23	13	12	13	15	9	12	24	14	19
3 GHz	24	15	19	33	19	26	16	13	14	18	11	15	27	16	22
6 GHz	34	24	29	47	33	40	28	24	26	26	17	21	36	23	30
10 GHz	54	47	51	66	57	61	53	52	53	46	39	42	53	42	47
20 GHz	69	66	67	76	74	75	71	70	70	63	60	61	66	59	62

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	2	3	4	2	3	4	2	3	2	0	1	3	5	4
AVG thickness Kft			.14			.15			.13			.13			.13
AVG trap freq GHz			1.7			1.9			1.6			2.6			.89
AVG lyr grd -N /Kft			220			147			222			242			271

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	1	1	1	0	1	2	1	2	1	3	2
AVG top ht Kft			3.9			3.4			*			4.6			3.7
AVG thickness Kft			.51			.61			.54			.40			.48
AVG trap freq GHz			.37			.27			.19			.49			.54
AVG lyr grd -N/Kft			82			75			*			71			99
AVG lyr base Kft			2.8			3.1			.19			4.3			3.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	20	18	19	19	15	17	17	12	14	19	20	20	24	24	24
10 to 20 Feet	13	17	15	6	11	8	15	19	17	19	20	20	11	18	15
20 to 30 Feet	15	19	17	11	17	14	18	18	18	17	20	19	13	18	16
30 to 40 Feet	13	15	14	11	14	13	16	19	17	14	15	15	9	14	11
40 to 50 Feet	8	8	8	8	11	9	10	9	10	6	7	6	8	5	6
50 to 60 Feet	5	5	5	7	8	7	6	5	6	4	4	4	5	3	4
60 to 70 Feet	3	3	3	3	4	4	3	3	3	3	1	2	3	2	2
70 to 80 Feet	2	2	2	3	2	3	3	3	3	1	1	1	2	2	2
80 to 90 Feet	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1
90 to 100 Feet	1	1	1	1	1	1	1	0	1	2	0	1	2	1	1
above 100 Feet	19	12	16	29	15	22	12	11	12	15	9	12	22	12	17
Mean height Feet	56	43	50	73	52	63	46	45	45	47	36	42	59	40	49

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			304			301			308			304			301
AVG station -N/Kft			11			10			12			11			10
AVG sfc wind K's	14	13	13	13	13	13	15	13	14	14	14	14	12	12	12

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 41 30 S 72 54 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 85801 41 30 S 72 54 W
Radiosonde station height: 10 Feet
Surface obs source: MS451 45 00 S 75 00 W

PERCENT OCCURRENCE OF ENHANCED SUPFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
1 GHz	11	7	9	18	12	15	7	7	7	8	3	6	12	7	9
3 GHz	14	9	11	21	14	17	8	9	8	11	4	8	15	9	12
6 GHz	22	15	18	33	23	28	13	14	14	19	8	13	23	15	19
10 GHz	50	42	46	61	51	56	45	42	44	46	36	41	48	39	44
20 GHz	69	65	67	76	69	72	64	65	65	69	65	67	67	69	68

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	5	4	6	8	7	1	3	2	3	3	3	5	4	5
AVG thickness Kft			.31			.48			.32			.24			.29
AVG trap freq GHz			1.2			.48			.60			2.1			1.8
AVG lyr grd -N/Kft			140			120			213			105			118

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	9	8	9	13	9	11	9	9	9	7	9	8	6	6	6
AVG top ht Kft			4.8			5.3			4.4			4.6			4.7
AVG thickness Kft			.32			.30			.43			.28			.28
AVG trap freq GHz			.85			1.1			.58			.86			.81
AVG lyr grd -N/Kft			62			56			65			57			72
AVG lyr base Kft			4.5			5.1			4.1			4.4			4.5

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	16	16	16	14	16	15	16	15	16	13	16	14	18	17	18
10 to 20 Feet	17	21	19	12	17	15	20	21	21	19	20	19	16	24	20
20 to 30 Feet	19	24	21	15	20	18	20	23	21	23	30	27	19	21	20
30 to 40 Feet	18	20	19	17	18	18	23	21	22	17	21	19	16	19	18
40 to 50 Feet	11	8	10	13	12	13	9	8	9	11	8	9	10	6	8
50 to 60 Feet	5	4	5	7	5	6	4	4	4	5	2	4	5	5	5
60 to 70 Feet	2	1	2	3	2	3	1	1	1	1	1	1	2	1	2
70 to 80 Feet	1	1	1	2	2	2	0	0	0	1	0	1	1	0	1
80 to 90 Feet	1	0	1	2	0	1	1	0	1	2	0	1	1	1	1
90 to 100 Feet	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0
above 100 Feet	9	5	7	14	7	11	6	5	6	7	2	5	10	5	8
Mean height Feet	41	32	37	51	38	45	33	32	33	38	27	33	42	32	37

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL<3B dcts			0			1			0			1			0
% occur 2+ EL dcts			0			1			1			0			0
AVG station N			326			330			327			320			326
AVG station -N/Kft			13			14			13			12			13
AVG sfc wind Kts	16	15	15	15	13	14	16	15	15	17	17	17	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 41 28 S 72 55 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 85799 41 28 S 72 55 W
Radiosonde station height: 361 Feet
Surface obs source: MS451 45 00 S 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM-COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	1	1	0	1	0	0	0	0	1	0	1	0	3	1
1 GHz	10	9	10	14	11	12	7	7	7	11	2	6	10	16	13
3 GHz	13	11	12	17	12	14	9	8	8	15	2	9	12	20	16
6 GHz	21	17	19	29	21	25	14	14	14	23	6	15	20	26	23
10 GHz	50	44	47	59	50	54	45	42	44	49	35	42	46	48	47
20 GHz	69	66	67	74	69	71	65	65	65	71	64	68	65	66	66

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	4	7	5	8	7	4	2	4	3	12	0	6	0	17	9
AVG thickness Kft			.22			.16			.21			.17			.36
AVG trap freq GHz			1.5			1.0			2.0			2.6			.54
AVG lyr grd -N/Kft			149			102			137			191			85

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	36	30	33	46	40	43	28	34	31	29	17	23	42	29	36
AVG top ht Kft			4.9			5.5			4.4			4.7			*
AVG thickness Kft			.37			.39			.37			.29			.42
AVG trap freq GHz			.50			.34			.54			.81			.32
AVG lyr grd -N/Kft			62			60			63			62			*
AVG lyr base Kft			4.6			5.2			4.2			4.5			4.4

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	16	16	16	14	16	15	16	15	16	13	16	14	18	17	18
10 to 20 Feet	17	21	19	12	17	15	20	21	21	19	28	19	16	24	20
20 to 30 Feet	19	24	21	15	20	18	20	23	21	23	30	27	19	21	20
30 to 40 Feet	18	20	19	17	18	18	23	21	22	17	21	19	16	19	18
40 to 50 Feet	11	8	10	13	12	13	9	8	9	11	8	9	10	6	8
50 to 60 Feet	5	4	5	7	5	6	4	4	4	5	2	4	5	5	5
60 to 70 Feet	2	1	2	3	2	3	1	1	1	1	1	1	2	1	2
70 to 80 Feet	1	1	1	2	2	2	0	0	0	1	0	1	1	0	1
80 to 90 Feet	1	0	1	2	0	1	1	0	1	2	0	1	1	1	1
90 to 100 Feet	1	0	1	1	0	0	1	1	1	1	0	1	1	0	0
above 100 Feet	9	5	7	14	7	11	6	5	6	7	2	5	10	5	8
Mean height Feet	41	32	37	51	38	45	33	32	33	38	27	33	42	32	37

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&r	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			1			1			1			1
% occur 2+ EL dcts			3			5			4			1			3
AVG station N			326			327			325			324			327
AVG station -N/Kft			13			13			13			13			14
AVG sfc wind Kts	16	15	15	15	13	14	16	15	15	17	17	17	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 43 57 S 176 34 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 93986 43 57 S 176 34 W
Radiosonde station height: 151 Feet
Surface obs source: MS426 35 00 S 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
1 GHz	18	6	12	23	9	16	14	7	11	13	4	8	20	6	13
3 GHz	23	8	15	29	11	20	20	9	15	16	5	10	25	7	16
6 GHz	43	25	34	49	30	39	45	31	38	36	20	28	43	21	32
10 GHz	67	57	62	70	59	65	69	62	66	65	55	60	65	51	58
20 GHz	78	71	74	79	72	75	80	73	76	77	73	75	75	66	71

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	0	1	4	0	2	1	0	1	2	0	1	4	0	2
AVG thickness Kft			.30			.32			.19			.47			.21
AVG trap freq GHz			1.1			.89			.76			1.1			1.5
AVG lyr grd -N/Kft			155			88			208			174			149

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	15	0	7	24	0	12	15	0	8	6	0	3	13	0	7
AVG top ht Kft			4.1			4.2			4.3			4.0			4.1
AVG thickness Kft			.31			.33			.27			.36			.30
AVG trap freq GHz			.75			.64			.85			.72			.79
AVG lyr grd -N/Kft			58			55			57			64			56
AVG lyr base Kft			3.9			3.9			4.1			3.7			3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	16	19	17	17	20	19	15	19	17	14	15	14	17	20	19
10 to 20 Feet	7	10	9	6	8	7	5	8	7	10	12	11	8	13	10
20 to 30 Feet	11	14	12	9	12	11	11	11	11	12	18	15	11	15	13
30 to 40 Feet	12	17	15	11	16	13	13	15	14	15	19	17	11	17	14
40 to 50 Feet	12	15	13	11	14	12	12	16	14	14	16	15	12	12	12
50 to 60 Feet	9	10	10	9	11	10	10	12	11	10	10	10	9	8	9
60 to 70 Feet	7	5	6	7	5	6	9	6	8	6	4	5	6	3	5
70 to 80 Feet	4	3	4	5	3	4	6	4	5	4	2	3	3	2	3
80 to 90 Feet	3	1	2	3	1	2	4	1	3	2	0	1	2	1	1
90 to 100 Feet	2	1	1	2	1	2	2	1	2	1	0	1	2	0	1
above 100 Feet	16	6	11	21	9	15	14	7	10	12	4	8	19	6	13
Mean height Feet	59	41	50	65	44	55	57	43	50	52	37	44	61	38	50

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			1			0			0			0
% occur 2+ EL dcts			1			2			0			0			1
AVG station N			328			331			328			324			329
AVG station -N/Kft			14			15			14			14			15
AVG sfc wind Kts	15	14	14	13	12	13	16	15	16	16	15	16	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 43 28 S 172 33 E (+) INDICATES INSUFFICIENT DATA
Radiosonde source : 93780 43 28 S 172 33 E
Radiosonde station height: 118 Feet
Surface obs source: MS426 35 00 S 175 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	1	0	1	1	0	1	1	0	0	0	0	0	1	1	1
1 GHz	19	7	13	23	10	17	17	7	12	13	4	9	23	9	16
3 GHz	24	10	17	29	13	21	24	9	17	17	5	11	28	11	20
6 GHz	45	27	36	49	32	40	48	31	39	37	20	28	45	25	35
10 GHz	68	58	63	70	60	65	71	62	67	66	55	60	66	53	60
20 GHz	78	72	75	79	72	76	81	73	77	77	73	75	76	68	72

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	2	4	5	3	4	9	0	5	3	0	2	9	6	8
AVG thickness Kft			.35			.36			.31			.35			.37
AVG trap freq GHz			1.3			.82			2.1			1.2			1.1
AVG lyr grd -N/Kft			147			149			193			144			104

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	8	6	7	13	14	14	7	0	4	5	0	3	8	10	9
AVG top ht Kft			2.5			3.7			1.9			1.8			2.5
AVG thickness Kft			.34			.33			.28			.39			.36
AVG trap freq GHz			.73			.69			.92			.73			.58
AVG lyr grd -N/Kft			58			55			57			62			59
AVG lyr base Kft			2.2			3.5			1.6			1.6			2.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	16	19	17	17	20	19	15	19	17	14	15	14	17	20	19
10 to 20 Feet	7	10	9	6	8	7	5	8	7	10	12	11	8	13	10
20 to 30 Feet	11	14	12	9	12	11	11	11	11	12	18	15	11	15	13
30 to 40 Feet	12	17	15	11	16	13	13	15	14	15	19	17	11	17	14
40 to 50 Feet	12	15	13	11	14	12	12	16	14	14	16	15	12	12	12
50 to 60 Feet	9	10	10	9	11	10	10	12	11	10	10	10	9	8	9
60 to 70 Feet	7	5	6	7	5	6	9	6	8	6	4	5	6	3	5
70 to 80 Feet	4	3	4	5	3	4	6	4	5	4	2	3	3	2	3
80 to 90 Feet	3	1	2	3	1	2	4	1	3	2	0	1	2	1	1
90 to 100 Feet	2	1	1	2	1	2	2	1	2	1	0	1	2	0	1
above 100 Feet	16	6	11	21	9	15	14	7	10	12	4	8	19	6	13
Mean height Feet	59	41	50	65	44	55	57	43	50	52	37	44	61	38	50

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			1			0			0			1
% occur 2+ EL dcts			0			1			0			0			1
AVG station N			325			331			323			320			326
AVG station -N/Kft			14			15			14			14			14
AVG sfc wind Kts	15	14	14	13	12	13	16	15	16	16	15	16	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 42 49 S 147 30 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94975 42 49 S 147 30 E
Radiosonde station height: 7 Feet
Surface obs source: MS42@ 35 00 S 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
1 GHz	18	8	13	26	10	18	15	7	11	11	6	8	21	8	15
3 GHz	26	12	19	36	16	26	24	13	18	17	9	13	26	11	19
6 GHz	57	43	50	68	51	59	58	46	52	51	40	45	53	36	44
10 GHz	81	74	78	84	78	81	84	76	80	81	76	79	76	68	72
20 GHz	88	85	87	89	86	87	90	87	89	90	87	88	84	80	82

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	2	2	4	1	3	1	1	1	1	3	2	3	2	3
AVG thickness Kft			.26			.40			.20			.22			.23
AVG trap freq GHz			1.8			.80			3.6			2.1			.75
AVG lyr grd -N/Kft			146			87			124			266			109

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	11	10	10	20	15	18	5	9	7	8	10	9	10	6	8
AVG top ht Kft			5.3			5.5			5.3			5.3			5.1
AVG thickness Kft			.23			.30			.21			.18			.25
AVG trap freq GHz			1.3			.68			1.5			1.9			1.2
AVG lyr grd -N/Kft			56			56			53			54			58
AVG lyr base Kft			5.1			5.2			5.2			5.1			4.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	8	8	8	8	8	6	7	6	6	7	6	11	12	11
10 to 20 Feet	4	7	5	4	6	5	3	6	5	5	7	6	5	7	6
20 to 30 Feet	7	10	9	5	8	7	7	11	9	9	11	10	8	12	10
30 to 40 Feet	11	14	12	8	12	10	11	13	12	13	16	15	11	15	13
40 to 50 Feet	14	18	16	9	16	13	15	17	16	18	21	19	13	17	15
50 to 60 Feet	13	15	14	12	16	14	15	16	15	16	17	16	11	12	12
60 to 70 Feet	11	10	10	11	11	11	11	11	11	11	9	10	9	8	9
70 to 80 Feet	8	6	7	9	8	9	8	7	7	7	5	6	7	5	6
80 to 90 Feet	5	3	4	6	4	5	6	4	5	4	2	3	3	2	2
90 to 100 Feet	3	2	2	4	2	3	3	2	3	2	1	2	2	1	1
above 100 Feet	17	7	12	24	9	17	15	7	11	10	5	8	19	7	13
Mean height Feet	68	51	60	79	56	68	67	52	60	59	48	53	68	49	58

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			1			0			0			0
% occur 2+ EL dcts			0			1			0			0			0
AVG station H			318			320			319			316			315
AVG station -N/Kft			11			11			12			12			11
AVG sfc wind Kts	16	15	15	15	15	15	16	15	15	16	15	16	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 49 19 S 70 13 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 61998 49 19 S 70 13 E
Radiosonde station height: 66 Feet
Surface obs source: MS402 25 00 S 55 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG thickness Kft			*			*			*			*			*
AVG trap freq GHz			*			*			*			*			*
AVG lyr grd -N/Kft			*			*			*			*			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	4	2	0	7	4	0	8	4	0	0	0	0	1	1
AVG top ht Kft			5.3			6.2			4.5			*			*
AVG thickness Kft			.36			.35			.20			*			.53
AVG trap freq GHz			.92			.81			1.7			*			.23
AVG lyr grd -N/Kft			56			51			62			*			*
AVG lyr base Kft			4.7			5.8			4.4			*			4.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	2	2	2	2	2	2	2	1	1	2	2	2	2	2	2
10 to 20 Feet	1	4	3	1	4	3	1	2	2	1	4	3	1	4	3
20 to 30 Feet	4	7	6	4	7	5	3	8	5	4	7	5	4	8	6
30 to 40 Feet	6	12	9	5	11	8	5	10	8	8	12	10	6	15	10
40 to 50 Feet	9	19	14	9	18	13	10	16	13	10	19	15	9	21	15
50 to 60 Feet	12	18	15	11	18	14	14	17	15	14	20	17	9	16	13
60 to 70 Feet	12	14	13	11	15	13	12	15	14	13	15	14	10	12	11
70 to 80 Feet	9	9	9	8	10	9	12	11	12	10	10	10	8	7	7
80 to 90 Feet	7	5	6	7	4	5	8	6	7	9	5	7	5	3	4
90 to 100 Feet	5	3	4	5	3	4	6	4	5	4	2	3	4	2	3
above 100 Feet	33	8	20	38	9	23	27	8	17	25	6	15	41	10	25
Mean height Feet	94	60	77	100	60	80	89	62	75	85	58	71	106	60	83

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			311			314			313			308			307
AVG station -N/Kft			11			11			11			11			11
AVG sfc wind Kts	13	12	12	14	13	13	13	12	13	14	12	13	11	10	10

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 46 52 S 37 52 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 68994 46 52 S 37 52 E
Radiosonde station height: 72 Feet
Surface obs source: MS448 35 00 S 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	*	*	*
1 GHz	17	9	13	22	10	16	17	9	13	12	7	9	*	*	*
3 GHz	27	16	21	33	17	25	27	18	23	19	12	16	*	*	*
6 GHz	63	52	57	66	53	60	66	57	62	56	46	51	*	*	*
10 GHz	86	82	84	85	81	83	89	86	87	83	80	81	*	*	*
20 GHz	93	91	92	92	89	90	95	93	94	91	91	91	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	2	1	0	2	1	0	3	2	0	2	1	0	0	0
AVG thickness Kft			.19			.13			.16			.27			*
AVG trap freq GHz			.94			1.4			.82			.58			*
AVG lyr grd -N/Kft			364			581			338			172			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	7	7	7	8	8	8	7	10	9	7	2	5	4	6	5
AVG top ht Kft			4.1			3.7			3.2			6.0			3.6
AVG thickness Kft			.31			.30			.32			.23			.37
AVG trap freq GHz			1.3			1.6			.66			2.2			.85
AVG lyr grd -N/Kft			58			56			60			59			58
AVG lyr base Kft			3.9			3.5			3.0			5.9			3.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	5	5	5	6	5	3	2	3	4	4	4	7	7	7
10 to 20 Feet	4	6	5	3	5	4	2	4	3	4	6	5	5	8	6
20 to 30 Feet	7	10	8	6	8	7	6	8	7	8	11	10	8	12	10
30 to 40 Feet	9	13	11	8	12	10	9	12	10	11	15	13	9	15	12
40 to 50 Feet	13	17	15	11	16	14	14	17	16	16	19	17	12	16	14
50 to 60 Feet	14	16	15	13	16	14	15	18	16	15	16	16	12	14	13
60 to 70 Feet	12	13	12	11	14	12	14	14	14	12	11	12	10	12	11
70 to 80 Feet	9	8	8	9	7	8	10	9	10	8	7	8	8	7	7
80 to 90 Feet	6	4	5	7	4	6	6	5	5	5	4	4	6	3	4
90 to 100 Feet	4	2	3	4	3	3	5	3	4	3	2	2	4	2	3
above 100 Feet	18	7	12	22	9	16	17	8	12	12	5	9	19	5	12
Mean height Feet	71	54	62	77	57	67	72	58	65	63	51	57	71	50	60

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			1			1			0			0
AVG station N			318			320			320			317			314
AVG station -N/Kft			12			12			12			12			12
AVG sfc wind Kts	16	15	15	15	14	14	16	15	15	17	15	16	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 54 48 S 68 18 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 87938 54 48 S 68 18 W
Radiosonde station height: 52 Feet
Surface obs source: MS486 55 00 S 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	3	1	*	*	*	*	*	*	*	*	*	0	3	1
1 GHz	8	18	13	*	*	*	*	*	*	*	*	*	8	18	13
3 GHz	11	23	17	*	*	*	*	*	*	*	*	*	11	23	17
6 GHz	16	29	23	*	*	*	*	*	*	*	*	*	16	29	23
10 GHz	33	40	37	*	*	*	*	*	*	*	*	*	33	40	37
20 GHz	48	57	53	*	*	*	*	*	*	*	*	*	48	57	53

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	11	6	*	*	*	*	*	*	0	0	0	0	22	11
AVG thickness Kft			.18			*			*			*			.18
AVG trap freq GHz			.93			*			*			*			.93
AVG lyr grd -N/Kft			100			*			*			*			100

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	*	*	*	*	*	*	0	0	0	0	0	0
AVG top ht Kft			*			*			*			*			*
AVG thickness Kft			*			*			*			*			*
AVG trap freq GHz			*			*			*			*			*
AVG lyr grd -N/Kft			*			*			*			*			*
AVG lyr base Kft			*			*			*			*			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	23	26	24	23	23	23	23	26	24	20	26	23	27	28	27
10 to 20 Feet	27	30	28	21	25	23	31	34	33	29	35	32	25	26	25
20 to 30 Feet	20	21	20	19	19	19	22	20	21	24	22	23	15	20	18
30 to 40 Feet	12	12	12	14	16	15	12	12	12	12	10	11	11	9	10
40 to 50 Feet	5	4	5	6	8	7	3	2	3	5	3	4	6	4	5
50 to 60 Feet	2	2	2	3	3	3	2	2	2	1	1	1	3	3	3
60 to 70 Feet	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
70 to 80 Feet	1	0	1	1	1	1	1	0	1	1	0	0	2	0	1
80 to 90 Feet	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
90 to 100 Feet	1	0	0	1	0	1	0	0	0	1	0	0	1	0	1
above 100 Feet	7	4	5	10	3	7	3	3	3	5	1	3	8	7	8
Mean height Feet	31	25	28	37	28	32	25	23	24	29	21	25	34	29	32

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			311			*			*			308			313
AVG station -N/Kft			11			*			*			11			11
AVG sfc wind Kts	16	16	16	15	15	15	17	16	16	18	17	17	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 51 37 S 69 13 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 87926 51 37 S 69 13 W
Radiosonde station height: 66 Feet
Surface obs source: MS486 55 00 S 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	1	0	0	0	1	0	*	*	*
1 GHz	6	3	5	*	*	*	6	3	5	6	4	5	*	*	*
3 GHz	8	5	7	*	*	*	9	4	6	8	6	7	*	*	*
6 GHz	12	7	10	*	*	*	14	7	10	10	7	9	*	*	*
10 GHz	28	21	24	*	*	*	29	20	25	28	21	24	*	*	*
20 GHz	50	42	46	*	*	*	50	41	45	51	43	47	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	3	4	4	0	0	0	10	0	5	2	7	5	0	9	5
AVG thickness Kft			.10			*			.20			.11			0
AVG trap freq GHz			2.0			*			2.8			3.1			0
AVG lyr grd -N/Kft			347			*			173			522			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	0	1	3	0	2	1	0	1	0	0	0	5	0	3
AVG top ht Kft			5.7			3.7			3.4			*			10
AVG thickness Kft			.42			.68			.27			*			.32
AVG trap freq GHz			.55			.14			.65			*			.85
AVG lyr grd -N/Kft			74			80			64			*			76
AVG lyr base Kft			5.4			3.3			3.2			*			10

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	23	26	24	23	23	23	23	26	24	20	26	23	27	28	27
10 to 20 Feet	27	30	28	21	25	23	31	34	33	29	35	32	25	26	25
20 to 30 Feet	20	21	20	19	19	19	22	20	21	24	22	23	15	20	18
30 to 40 Feet	12	12	12	14	16	15	12	12	12	12	10	11	11	9	10
40 to 50 Feet	5	4	5	6	8	7	3	2	3	5	3	4	6	4	5
50 to 60 Feet	2	2	2	3	3	3	2	2	2	1	1	1	3	3	3
60 to 70 Feet	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
70 to 80 Feet	1	0	1	1	1	1	1	0	1	1	0	0	2	0	1
80 to 90 Feet	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
90 to 100 Feet	1	0	0	1	0	1	0	0	0	1	0	0	1	0	1
above 100 Feet	7	4	5	10	3	7	3	3	3	5	1	3	8	7	8
Mean height Feet	31	25	28	37	28	32	25	23	24	29	21	25	34	29	32

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			314			318			313			313			312
AVG station -N/Kft			12			12			12			12			11
AVG sfc wind Kts	16	16	16	15	15	15	17	16	16	18	17	17	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 55 00 S 75 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 87938 54 48 S 68 18 W
Radiosonde station height: 52 Feet
Surface obs source: MS487 55 00 S 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	3	1	*	*	*	*	*	*	*	*	*	0	3	1
1 GHz	7	15	11	*	*	*	*	*	*	*	*	*	7	15	11
3 GHz	7	20	14	*	*	*	*	*	*	*	*	*	7	20	14
6 GHz	10	25	17	*	*	*	*	*	*	*	*	*	10	25	17
10 GHz	28	40	34	*	*	*	*	*	*	*	*	*	28	40	34
20 GHz	48	59	54	*	*	*	*	*	*	*	*	*	48	59	54

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	11	6	*	*	*	*	*	*	0	0	0	0	22	11
AVG thickness Kft			.18			*			*			*			.18
AVG trap freq GHz			.93			*			*			*			.93
AVG lyr grd -N/Kft			100			*			*			*			100

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	*	*	*	*	*	*	0	0	0	0	0	0
AVG top ht Kft			*			*			*			*			*
AVG thickness Kft			*			*			*			*			*
AVG trap freq GHz			*			*			*			*			*
AVG lyr grd -N/Kft			*			*			*			*			*
AVG lyr base Kft			*			*			*			*			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	22	23	23	23	19	21	25	31	28	15	22	19	23	21	22
10 to 20 Feet	30	32	31	28	26	23	35	37	36	36	33	34	28	31	29
20 to 30 Feet	22	24	23	21	25	23	21	20	21	26	27	26	21	23	22
30 to 40 Feet	14	13	13	16	17	17	12	7	10	15	12	13	14	14	14
40 to 50 Feet	3	3	3	4	6	5	2	2	2	3	1	2	4	4	4
50 to 60 Feet	2	1	2	4	1	3	2	1	1	1	0	1	1	1	1
60 to 70 Feet	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1
70 to 80 Feet	1	1	1	2	1	1	0	0	0	0	1	0	0	0	0
80 to 90 Feet	1	0	0	1	0	1	1	0	0	1	0	0	1	0	0
90 to 100 Feet	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0
above 100 Feet	4	3	4	5	3	4	2	1	2	2	4	3	7	4	5
Mean height Feet	28	24	26	32	27	30	22	17	20	25	24	24	31	27	29

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SD dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			311			*			*			308			313
AVG station -N/Kft			11			*			*			11			11
AVG sfc wind Kts	18	17	18	17	16	17	18	17	18	18	18	18	19	18	18

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 52 33 S 169 09 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 93944 52 33 S 169 09 E
Radiosonde station height: 49 Feet
Surface obs source: MS427 35 00 S 165 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	19	6	12	24	7	16	18	5	11	12	4	8	20	7	13
3 GHz	24	8	16	32	11	21	24	7	16	17	6	12	25	9	17
6 GHz	51	32	41	58	38	48	53	35	44	46	27	36	46	28	37
10 GHz	75	66	71	79	70	74	79	69	74	76	69	72	68	56	62
20 GHz	84	80	82	86	83	84	87	84	86	86	83	84	78	71	75

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	0	1	1	0	1	3	0	2	1	0	1	2	1	2
AVG thickness Kft			.18			.13			.20			.17			.23
AVG trap freq GHz			2.9			2.9			2.2			5.0			1.7
AVG lyr grd -N/Kft			158			256			149			124			103

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	26	14	20	25	23	24	30	0	15	28	10	19	20	23	22
AVG top ht Kft			4.2			4.4			4.2			3.9			4.3
AVG thickness Kft			.33			.38			.35			.29			.30
AVG trap freq GHz			.52			.39			.39			.61			.67
AVG lyr grd -N/Kft			65			63			64			71			62
AVG lyr base Kft			4.0			4.1			3.9			3.8			4.1

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	11	12	11	10	11	10	8	10	9	8	8	8	16	19	17
10 to 20 Feet	6	8	7	4	8	6	5	6	5	7	9	8	7	10	9
20 to 30 Feet	9	14	12	7	13	10	9	15	12	10	14	12	10	15	13
30 to 40 Feet	12	17	14	10	15	13	12	16	14	16	20	18	11	15	13
40 to 50 Feet	13	17	15	11	16	14	15	17	16	14	21	18	11	14	12
50 to 60 Feet	11	13	12	10	14	12	14	15	14	13	13	13	9	11	10
60 to 70 Feet	9	7	8	9	8	9	9	8	9	10	5	8	8	5	6
70 to 80 Feet	6	4	5	7	5	6	6	5	6	6	2	4	4	3	3
80 to 90 Feet	3	2	2	4	2	3	3	2	2	3	1	2	3	1	2
90 to 100 Feet	2	1	2	3	1	2	3	1	2	2	0	1	2	1	1
above 100 Feet	18	6	12	24	7	16	17	5	11	12	4	8	20	6	13
Mean height Feet	66	44	55	77	48	62	66	45	55	57	42	50	63	40	51

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			1			0			2			0			0
% occur 2+ EL dcts			2			3			2			1			2
AVG station N			320			323			319			318			318
AVG station -N/Kft			13			13			12			12			12
AVG sfc wind Kts	15	15	15	14	14	14	16	15	16	17	16	16	14	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

. cified location: 54 30 S 158 57 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94998 54 30 S 158 57 E
Radiosonde station height: 20 Feet
Surface obs source: MS428 35 00 S 155 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
1 GHz	18	8	13	26	10	18	15	8	12	11	5	8	21	8	14
3 GHz	27	12	19	37	16	26	25	15	20	18	8	13	27	11	19
6 GHz	58	43	51	68	51	60	58	47	53	51	39	45	54	35	44
10 GHz	81	75	78	84	78	81	84	77	80	82	76	79	76	68	72
20 GHz	88	85	87	89	86	88	90	87	89	90	86	88	84	80	82

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	5	2	3	6	3	5	2	4	3	3	1	2	7	1	4
AVG thickness Kft			.17			.15			.21			.20			.13
AVG trap freq GHz			2.3			2.5			1.6			1.6			3.4
AVG lyr grd -N/Kft			136			106			149			97			190

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	6	5	5	6	6	6	4	6	5	7	4	6	6	2	4
AVG top ht Kft			4.1			4.1			4.1			4.2			4.0
AVG thickness Kft			.21			.25			.22			.15			.24
AVG trap freq GHz			1.2			.90			1.3			2.1			.67
AVG lyr grd -N/Kft			62			66			60			56			67
AVG lyr base Kft			3.9			3.9			3.9			4.1			3.8

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	7	8	8	8	8	8	6	7	6	6	7	6	11	12	11
10 to 20 Feet	4	7	5	4	6	5	3	6	5	5	7	6	5	7	6
20 to 30 Feet	7	10	9	5	8	7	7	11	9	9	11	10	8	12	10
30 to 40 Feet	11	14	12	8	12	10	11	13	12	13	16	15	11	15	13
40 to 50 Feet	14	18	16	9	16	13	15	17	16	18	21	19	13	17	15
50 to 60 Feet	13	15	14	12	16	14	15	16	15	16	17	16	11	12	12
60 to 70 Feet	11	10	10	11	11	11	11	11	11	11	9	10	9	8	9
70 to 80 Feet	8	6	7	9	8	9	8	7	7	7	5	6	7	5	6
80 to 90 Feet	5	3	4	6	4	5	6	4	5	4	2	3	3	2	2
90 to 100 Feet	3	2	2	4	2	3	3	2	3	2	1	2	2	1	1
above 100 Feet	17	7	12	24	9	17	15	7	11	10	5	8	19	7	13
Mean height Feet	68	51	60	79	56	68	67	52	60	59	48	53	68	49	58

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			1
% occur 2+ EL dcts			0			1			0			0			1
AVG station N			315			315			314			315			314
AVG station -N/Kft			12			12			12			12			12
AVG sfc wind Kts	16	15	15	15	15	15	16	15	15	16	15	16	15	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 65 00 S 15 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 89001 70 19 S 2 22 W
Radiosonde station height: 171 Feet
Surface obs source: MS486 55 00 S 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG thickness Kft			*			*			*			*			*
AVG trap freq GHz			*			*			*			*			*
AVG lyr grd -N/Kft			*			*			*			*			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	1	0	0	0	0	0	0	0	0	2	1	0	1	1
AVG top ht Kft			3.7			*			*			*			3.7
AVG thickness Kft			.13			*			*			.19			.08
AVG trap freq GHz			2.7			*			*			1.0			4.4
AVG lyr grd -N/Kft			68			*			*			*			68
AVG lyr base Kft			5.8			*			*			7.9			3.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	23	26	24	23	23	23	23	26	24	20	26	23	27	28	27
10 to 20 Feet	27	30	28	21	25	23	31	34	33	29	35	32	25	26	25
20 to 30 Feet	20	21	20	19	19	19	22	20	21	24	22	23	15	20	18
30 to 40 Feet	12	12	12	14	16	15	12	12	12	12	10	11	11	9	10
40 to 50 Feet	5	4	5	6	8	7	3	2	3	5	3	4	6	4	5
50 to 60 Feet	2	2	2	3	3	3	2	2	2	1	1	1	3	3	3
60 to 70 Feet	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
70 to 80 Feet	1	0	1	1	1	1	1	0	1	1	0	0	2	0	1
80 to 90 Feet	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
90 to 100 Feet	1	0	0	1	0	1	0	0	0	1	0	0	1	0	1
above 100 Feet	7	4	5	10	3	7	3	3	3	5	1	3	8	7	8
Mean height Feet	31	25	28	37	28	32	25	23	24	29	21	25	34	29	32

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			308			305			308			312			305
AVG station -N/Kft			13			12			14			14			12
AVG sfc wind Kts	16	16	16	15	15	15	17	16	16	18	17	17	16	15	16

TREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 60 45 S 44 43 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 88968 60 45 S 44 43 W
Radiosonde station height: 13 Feet
Surface obs source: MS486 55 00 S 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	*	*	*	0	0	0	0	0	0
1 GHz	7	5	6	*	*	*	*	*	*	5	2	4	9	7	8
3 GHz	9	6	8	*	*	*	*	*	*	7	3	5	11	9	10
6 GHz	13	9	11	*	*	*	*	*	*	9	5	7	17	13	15
10 GHz	30	22	26	*	*	*	*	*	*	27	18	22	34	26	30
20 GHz	50	43	46	*	*	*	*	*	*	51	40	45	49	46	47

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	1	0	0	0	0	0	0	0	0	2	1	1	0	1
AVG thickness Kft			.16			*			*			.15			.16
AVG trap freq GHz			2.4			*			*			2.3			2.5
AVG lyr grd -N/Kft			93			*			*			93			93

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	2	1	1	0	1	1	0	1	0	1	1
AVG top ht Kft			3.5			3.9			3.1			3.2			3.8
AVG thickness Kft			.21			.13			.36			.20			.14
AVG trap freq GHz			1.5			1.3			1.9			1.3			1.5
AVG lyr grd -N/Kft			88			115			127			54			56
AVG lyr base Kft			3.4			3.8			3.0			3.0			3.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	23	26	24	23	23	23	23	26	24	20	26	23	27	28	27
10 to 20 Feet	27	30	28	21	25	23	31	34	33	29	35	32	25	26	25
20 to 30 Feet	20	21	20	19	19	19	22	20	21	24	22	23	15	20	18
30 to 40 Feet	12	12	12	14	16	15	12	12	12	12	10	11	11	9	10
40 to 50 Feet	5	4	5	6	8	7	3	2	3	5	3	4	6	4	5
50 to 60 Feet	2	2	2	3	3	3	2	2	2	1	1	1	3	3	3
60 to 70 Feet	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
70 to 80 Feet	1	0	1	1	1	1	1	0	1	1	0	0	2	0	1
80 to 90 Feet	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
90 to 100 Feet	1	0	0	1	0	1	0	0	0	1	0	0	1	0	1
above 100 Feet	7	4	5	10	3	7	3	3	3	5	1	3	8	7	8
Mean height Feet	31	25	28	37	28	32	25	23	24	29	21	25	34	29	32

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			308			308			308			308			307
AVG station -N/Kft			11			11			12			12			11
AVG sfc wind Kts	16	16	16	15	15	15	17	16	16	18	17	17	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 62 12 S 58 55 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 89050 62 12 S 58 55 W
Radiosonde station height: 52 Feet
Surface obs source: MS486 55 00 S 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM CON RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	*	*	*	*	*	*	0	0	0
1 GHz	8	8	8	*	*	*	*	*	*	*	*	*	8	8	8
3 GHz	11	10	10	*	*	*	*	*	*	*	*	*	11	10	10
6 GHz	16	14	15	*	*	*	*	*	*	*	*	*	16	14	15
10 GHz	33	27	30	*	*	*	*	*	*	*	*	*	33	27	30
20 GHz	48	47	47	*	*	*	*	*	*	*	*	*	48	47	47

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	1	0	0	0	0	0	0	0	0	0	0	0	2	1
AVG thickness Kft			.22			*			*			*			.22
AVG trap freq GHz			1.6			*			*			*			1.6
AVG lyr grd -N/Kft			59			*			*			*			59

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	1	1	0	3	2	0	0	0	0	0	0	0	2	1
AVG top ht Kft			5.8			5.4			*			*			3.6
AVG thickness Kft			.41			.35			*			*			.47
AVG trap freq GHz			.29			.37			*			*			.20
AVG lyr grd -N/Kft			93			107			*			*			79
AVG lyr base Kft			4.8			6.3			*			*			3.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	23	26	24	23	23	23	23	26	24	20	26	23	27	28	27
10 to 20 Feet	27	30	28	21	25	23	31	34	33	29	35	32	25	26	25
20 to 30 Feet	20	21	20	19	19	19	22	20	21	24	22	23	15	20	18
30 to 40 Feet	12	12	12	14	16	15	12	12	12	12	10	11	11	9	10
40 to 50 Feet	5	4	5	6	8	7	3	2	3	5	3	4	6	4	5
50 to 60 Feet	2	2	2	3	3	3	2	2	2	1	1	1	3	3	3
60 to 70 Feet	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
70 to 80 Feet	1	0	1	1	1	1	1	0	1	1	0	0	2	0	1
80 to 90 Feet	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
90 to 100 Feet	1	0	0	1	0	1	0	0	0	1	0	0	1	0	1
above 100 Feet	7	4	5	10	3	7	3	3	3	5	1	3	8	7	8
Mean height Feet	31	25	28	37	28	32	25	23	24	29	21	25	34	29	32

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SS dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			308			308			307			308			309
AVG station -N/Kft			11			11			11			11			11
AVG sfc wind Kts	16	16	16	15	15	15	17	16	16	18	17	17	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 65 15 S 64 16 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 88952 65 15 S 64 16 W
Radiosonde station height: 30 Feet
Surface obs source: MS486 55 00 S 65 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SUFFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	*	*	*	0	0	0
1 GHz	8	5	6	10	3	7	3	3	3	*	*	*	9	7	8
3 GHz	10	6	8	12	4	8	4	4	4	*	*	*	12	9	10
6 GHz	15	9	12	18	9	13	9	7	8	*	*	*	18	13	15
10 GHz	32	26	29	38	32	35	24	20	22	*	*	*	35	26	30
20 GHz	51	46	48	57	52	54	46	41	43	*	*	*	50	46	48

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	0	1	2	0	1	1	0	1	0	0	0	3	0	2
AVG thickness Kft			.11			.68			.12			*			.12
AVG trap freq GHz			4.7			8.7			2.3			*			3.1
AVG lyr grd -N/Kft			238			*			353			*			124

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	1	1	0	1	2	0	1	0	0	0	1	0	1
AVG top ht Kft			2.3			1.5			4.5			*			.83
AVG thickness Kft			.38			.38			.12			.20			.58
AVG trap freq GHz			1.2			.74			3.1			.82			.15
AVG lyr grd -N/Kft			81			62			77			*			103
AVG lyr base Kft			3.4			1.3			4.4			7.1			.61

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	23	26	24	23	23	23	23	26	24	20	26	23	27	28	27
10 to 20 Feet	27	30	28	21	25	23	31	34	33	29	35	32	25	26	25
20 to 30 Feet	20	21	20	19	19	19	22	20	21	24	22	23	15	20	18
30 to 40 Feet	12	12	12	14	16	15	12	12	12	12	10	11	11	9	10
40 to 50 Feet	5	4	5	6	8	7	3	2	3	5	3	4	6	4	5
50 to 60 Feet	2	2	2	3	3	3	2	2	2	1	1	1	3	3	3
60 to 70 Feet	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
70 to 80 Feet	1	0	1	1	1	1	1	0	1	1	0	0	2	0	1
80 to 90 Feet	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1
90 to 100 Feet	1	0	0	1	0	1	0	0	0	1	0	0	1	0	1
above 100 Feet	7	4	5	10	3	7	3	3	3	5	1	3	8	7	8
Mean height Feet	31	25	28	37	28	32	25	23	24	29	21	25	34	29	32

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SD dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			305			305			305			305			305
AVG station -N/Kft			11			12			11			12			12
AVG surf wind Kts	16	16	16	15	15	15	17	16	16	18	17	17	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 65 00 S 75 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 88952 65 15 S 64 16 W
Radiosonde station height: 30 Feet
Surface obs source: MS487 55 00 S 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	*	*	*	0	0	0
1 GHz	5	3	4	6	3	5	3	1	2	*	*	*	7	4	6
3 GHz	7	3	5	8	4	6	4	1	2	*	*	*	9	5	7
6 GHz	11	6	8	16	7	11	6	2	4	*	*	*	12	8	10
10 GHz	28	22	25	35	30	33	20	12	16	*	*	*	29	26	27
20 GHz	49	45	47	57	55	56	41	32	37	*	*	*	50	48	49

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	0	1	2	0	1	1	0	1	0	0	0	3	0	2
AVG thickness Kft			.11			.08			.12			*			.12
AVG trap freq GHz			4.7			8.7			2.3			*			3.1
AVG lyr grd -N/Kft			238			*			353			*			124

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	1	1	0	1	2	0	1	0	0	0	1	0	1
AVG top ht Kft			2.3			1.5			4.5			*			.63
AVG thickness Kft			.30			.30			.12			.20			.58
AVG trap freq GHz			1.2			.74			3.1			.82			.15
AVG lyr grd -N/Kft			81			62			77			*			103
AVG lyr base Kft			3.4			1.3			4.4			7.1			.61

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	22	23	23	23	19	21	25	31	28	15	22	19	23	21	22
10 to 20 Feet	30	32	31	20	26	23	35	37	36	36	33	34	28	31	29
20 to 30 Feet	22	24	23	21	25	23	21	20	21	26	27	26	21	23	22
30 to 40 Feet	14	13	13	16	17	17	12	7	10	15	12	13	14	14	14
40 to 50 Feet	3	3	3	4	6	5	2	2	2	3	1	2	4	4	4
50 to 60 Feet	2	1	2	4	1	3	2	1	1	1	0	1	1	1	1
60 to 70 Feet	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1
70 to 80 Feet	1	1	1	2	1	1	0	0	0	0	1	0	0	0	0
80 to 90 Feet	1	0	0	1	0	1	1	0	0	1	0	0	1	0	0
90 to 100 Feet	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0
above 100 Feet	4	3	4	5	3	4	2	1	2	2	4	3	7	4	5
Mean height Feet	28	24	26	32	27	30	22	17	20	25	24	24	31	27	29

GENERAL METEOROLGGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			305			305			305			305			305
AVG station -N/Kft			11			12			11			12			12
AVG sfc wind Kts	18	17	18	17	16	17	18	17	18	18	18	18	19	18	19

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 65 00 S 85 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 88952 65 15 S 64 16 W
Radiosonde station height: 30 Feet
Surface obs source: MS487 55 09 S 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	*	*	*	0	0	0
1 GHz	5	3	4	6	3	5	3	1	2	*	*	*	7	4	6
3 GHz	7	3	5	8	4	6	4	1	2	*	*	*	9	5	7
6 GHz	11	6	8	16	7	11	6	2	4	*	*	*	12	8	10
10 GHz	28	22	25	35	30	33	20	12	16	*	*	*	29	26	27
20 GHz	49	45	47	57	55	56	41	32	37	*	*	*	50	48	49

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	0	1	2	0	1	1	0	1	0	0	0	3	0	2
AVG thickness Kft			.11			.08			.12			*			.12
AVG trap freq GHz			4.7			8.7			2.3			*			3.1
AVG lyr grd -M/Kft			238			*			353			*			124

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	1	1	0	1	2	0	1	0	0	0	1	0	1
AVG top ht Kft			2.3			1.5			4.5			*			.83
AVG thickness Kft			.30			.30			.12			.20			.58
AVG trap freq GHz			1.2			.74			3.1			.82			.15
AVG lyr grd -M/Kft			81			62			77			*			103
AVG lyr base Kft			3.4			1.3			4.4			7.1			.61

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	22	23	23	23	19	21	25	31	28	15	22	19	23	21	22
10 to 20 Feet	30	32	31	20	26	23	35	37	36	36	33	34	28	31	29
20 to 30 Feet	22	24	23	21	25	23	21	20	21	26	27	26	21	23	22
30 to 40 Feet	14	13	13	16	17	17	12	7	10	15	12	13	14	14	14
40 to 50 Feet	3	3	3	4	6	5	2	2	2	3	1	2	4	4	4
50 to 60 Feet	2	1	2	4	1	3	2	1	1	1	0	1	1	1	1
60 to 70 Feet	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1
70 to 80 Feet	1	1	1	2	1	1	0	0	0	0	1	0	0	0	0
80 to 90 Feet	1	0	0	1	0	1	1	0	0	1	0	0	1	0	0
90 to 100 Feet	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0
above 100 Feet	4	3	4	5	3	4	2	1	2	2	4	3	7	4	5
Mean height Feet	28	24	26	32	27	30	22	17	20	25	24	24	31	27	29

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			305			305			305			305			305
AVG station -M/Kft			11			12			11			12			12
AVG sfc wind Kts	18	17	18	17	16	17	18	17	18	18	18	18	19	18	19

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 65 00 S 95 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 88952 65 15 S 64 16 W
Radiosonde station height: 30 Feet
Surface obs source: MS487 55 00 S 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	*	*	*	0	0	0
1 GHz	5	3	4	6	3	5	3	1	2	*	*	*	7	4	6
3 GHz	7	3	5	8	4	6	4	1	2	*	*	*	9	5	7
6 GHz	11	6	8	16	7	11	6	2	4	*	*	*	12	8	10
10 GHz	28	22	25	35	30	33	20	12	16	*	*	*	29	26	27
20 GHz	49	45	47	57	55	56	41	32	37	*	*	*	50	48	49

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	0	1	2	0	1	1	0	1	0	0	0	3	0	2
AVG thickness Kft			.11			.08			.12			*			.12
AVG trap freq GHz			4.7			8.7			2.3			*			3.1
AVG lyr grd -N/Kft			238			*			353			*			124

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	1	1	0	1	2	0	1	0	0	0	1	0	1
AVG top ht Kft			2.3			1.5			4.5			*			.83
AVG thickness Kft			.30			.30			.12			.20			.58
AVG trap freq GHz			1.2			.74			3.1			.82			.15
AVG lyr grd -N/Kft			81			62			77			*			103
AVG lyr base Kft			3.4			1.3			4.4			7.1			.61

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	22	23	23	23	19	21	25	31	28	15	22	19	23	21	22
10 to 20 Feet	30	32	31	20	26	23	35	37	36	36	33	34	28	31	29
20 to 30 Feet	22	24	23	21	25	23	21	20	21	26	27	26	21	23	22
30 to 40 Feet	14	13	13	16	17	17	12	7	10	15	12	13	14	14	14
40 to 50 Feet	3	3	3	4	6	5	2	2	2	3	1	2	4	4	4
50 to 60 Feet	2	1	2	4	1	3	2	1	1	1	0	1	1	1	1
60 to 70 Feet	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1
70 to 80 Feet	1	1	1	2	1	1	0	0	0	0	1	0	0	0	0
80 to 90 Feet	1	0	0	1	0	1	1	0	0	1	0	0	1	0	0
90 to 100 Feet	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0
above 100 Feet	4	3	4	5	3	4	2	1	2	2	4	3	7	4	5
Mean height Feet	28	24	26	32	27	30	22	17	20	25	24	24	31	27	29

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			305			305			305			305			305
AVG station -N/Kft			11			12			11			12			12
AVG sfc wind Kts	18	17	18	17	16	17	18	17	18	18	18	18	19	18	19

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 65 00 S 105 00 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 88952 65 15 S 64 16 W
Radiosonde station height: 30 Feet
Surface obs source: MS487 55 00 S 75 00 W

PERCENT OCCUPRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	*	*	*	0	0	0
1 GHz	5	3	4	6	3	5	3	1	2	*	*	*	7	4	6
3 GHz	7	3	5	8	4	6	4	1	2	*	*	*	9	5	7
6 GHz	11	6	8	16	7	11	6	2	4	*	*	*	12	8	10
10 GHz	28	22	25	35	30	33	20	12	16	*	*	*	29	26	27
20 GHz	49	45	47	57	55	56	41	32	37	*	*	*	50	48	49

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	2	0	1	2	0	1	1	0	1	0	0	0	3	0	2
AVG thickness Kft			.11			.08			.12			*			.12
AVG trap freq GHz			4.7			8.7			2.3			*			3.1
AVG lyr grd -N/Kft			238			*			353			*			124

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	1	1	0	1	2	0	1	0	0	0	1	0	1
AVG top ht Kft			2.3			1.5			4.5			*			.83
AVG thickness Kft			.30			.30			.12			.20			.58
AVG trap freq GHz			1.2			.74			3.1			.82			.15
AVG lyr grd -N/Kft			81			62			77			*			103
AVG lyr base Kft			3.4			1.3			4.4			7.1			.61

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	22	23	23	23	19	21	25	31	28	15	22	19	23	21	22
10 to 20 Feet	30	32	31	20	26	23	35	37	36	36	33	34	28	31	29
20 to 30 Feet	22	24	23	21	25	23	21	20	21	26	27	26	21	23	22
30 to 40 Feet	14	13	13	16	17	17	12	7	10	15	12	13	14	14	14
40 to 50 Feet	3	3	3	4	6	5	2	2	2	3	1	2	4	4	4
50 to 60 Feet	2	1	2	4	1	3	2	1	1	1	0	1	1	1	1
60 to 70 Feet	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1
70 to 80 Feet	1	1	1	2	1	1	0	0	0	0	1	0	0	0	0
80 to 90 Feet	1	0	0	1	0	1	1	0	0	1	0	0	1	0	0
90 to 100 Feet	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0
above 100 Feet	4	3	4	5	3	4	2	1	2	2	4	3	7	4	5
Mean height Feet	28	24	26	32	27	30	22	17	20	25	24	24	31	27	29

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station M			305			305			305			305			305
AVG station -N/Kft			11			12			11			12			12
AVG sfc wind Kts	18	17	18	17	16	17	18	17	18	18	18	18	19	18	19

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 66 40 S 140 01 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 95502 66 40 S 140 01 E
Radiosonde station height: 144 Feet
Surface obs source: MS430 35 00 S 135 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG thickness Kft			*			*			*			*			*
AVG trap freq GHz			*			*			*			*			*
AVG lyr grd -M/Kft			*			*			*			*			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG top ht Kft			*			*			*			*			*
AVG thickness Kft			*			*			*			*			*
AVG trap freq GHz			*			*			*			*			*
AVG lyr grd -M/Kft			*			*			*			*			*
AVG lyr base Kft			*			*			*			*			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	6	7	7	5	6	6	6	7	6	6	7	6	7	10	9
10 to 20 Feet	7	11	9	5	11	8	8	10	9	7	11	9	8	13	11
20 to 30 Feet	14	19	17	10	15	13	15	19	17	17	22	19	14	21	18
30 to 40 Feet	17	23	20	13	21	17	17	22	20	22	25	23	17	24	21
40 to 50 Feet	18	17	17	16	19	17	19	18	19	21	19	20	15	13	14
50 to 60 Feet	12	10	11	13	11	12	15	11	13	12	10	11	10	6	9
60 to 70 Feet	6	4	5	9	7	8	6	5	6	5	3	4	6	3	4
70 to 80 Feet	4	2	3	5	3	4	3	2	3	3	1	2	3	1	2
80 to 90 Feet	2	1	1	3	1	2	2	1	1	2	1	1	2	1	1
90 to 100 Feet	1	0	1	2	1	1	1	0	1	1	0	1	2	0	1
above 100 Feet	12	4	8	21	6	13	7	4	5	5	3	4	16	4	10
Mean height Feet	56	40	48	71	44	58	48	42	45	45	37	41	60	38	49

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			301			296			304			302			300
AVG station -N/Kft			10			9.1			10			11			10
AVG sfc wind Kts	15	14	14	13	12	13	15	14	15	17	16	17	14	13	13

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 66 15 S 110 31 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 89611 66 15 S 110 31 E
Radiosonde station height: 49 Feet
Surface obs source: MS432 35 00 S 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	*	*	*	0	0	0	0	0	0
1 GHz	14	5	10	18	8	13	*	*	*	9	3	6	16	5	11
3 GHz	21	8	15	27	12	19	*	*	*	14	5	9	22	8	15
6 GHz	55	40	47	60	45	53	*	*	*	49	37	43	55	37	46
10 GHz	85	79	82	86	80	83	*	*	*	85	80	83	84	77	81
20 GHz	93	91	92	93	91	92	*	*	*	94	92	93	93	91	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	2	1	0	0	0	2	0	1	3	1	2
AVG thickness Kft			.14			.19			*			.08			.16
AVG trap freq GHz			3.1			1.9			*			4.5			2.7
AVG lyr grd -M/Kft			83			98			*			62			97

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	2	1	1	0	1	1	0	1	0	1	1
AVG top ht Kft			3.4			3.8			2.8			3.7			*
AVG thickness Kft			.14			.22			.08			.09			.15
AVG trap freq GHz			2.6			1.1			3.4			5.1			1.0
AVG lyr grd -M/Kft			66			69			62			66			*
AVG lyr base Kft			2.9			3.6			2.8			3.6			1.0

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	3	3	4	4	4	2	3	2	2	2	2	4	3	3
10 to 20 Feet	3	5	4	4	5	4	3	4	4	3	5	4	3	6	5
20 to 30 Feet	8	12	10	7	11	9	7	10	8	9	12	10	9	14	11
30 to 40 Feet	13	17	15	10	15	13	12	15	13	16	18	17	13	21	17
40 to 50 Feet	18	21	20	15	20	18	18	20	19	21	25	23	18	20	19
50 to 60 Feet	17	18	18	14	17	15	19	19	19	18	20	19	17	18	17
60 to 70 Feet	11	10	11	12	11	11	13	12	13	11	8	10	9	8	9
70 to 80 Feet	7	5	6	8	5	7	8	6	7	7	4	5	6	4	5
80 to 90 Feet	4	2	3	6	2	4	5	3	4	2	1	2	4	1	3
90 to 100 Feet	2	1	2	3	1	2	2	2	2	2	1	1	2	1	1
above 100 Feet	13	5	9	18	7	13	10	6	8	8	3	6	16	5	10
Mean height Feet	65	51	58	72	54	63	63	54	59	57	48	53	67	48	57

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			302			300			304			304			300
AVG station -M/Kft			11			11			12			11			11
AVG sfc wind Kts	16	15	15	15	15	15	16	15	16	17	15	16	15	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 66 33 S 93 01 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 89592 66 33 S 93 01 E
Radiosonde station height: 98 Feet
Surface obs source: MS432 35 00 S 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	*	*	*	*	*	*	0	0	0
1 GHz	16	5	10	*	*	*	*	*	*	*	*	*	16	5	10
3 GHz	21	8	14	*	*	*	*	*	*	*	*	*	21	8	14
6 GHz	54	37	45	*	*	*	*	*	*	*	*	*	54	37	45
10 GHz	84	78	81	*	*	*	*	*	*	*	*	*	84	78	81
20 GHz	93	91	92	*	*	*	*	*	*	*	*	*	93	91	92

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
AVG thickness Kft			.15			*			*			*			.15
AVG trap freq GHz			1.7			*			*			*			1.7
AVG lyr grd -N/Kft			70			*			*			*			70

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	1	1	0	1	0	1	1	0	0	0	2	0	1
AVG top ht Kft			3.6			3.5			3.9			*			3.3
AVG thickness Kft			.12			.08			.10			*			.17
AVG trap freq GHz			2.3			3.2			2.1			*			1.6
AVG lyr grd -N/Kft			74			66			90			*			65
AVG lyr base Kft			3.5			3.4			3.9			*			3.2

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	3	3	4	4	4	2	3	2	2	2	2	4	3	3
10 to 20 Feet	3	5	4	4	5	4	3	4	4	3	5	4	3	6	5
20 to 30 Feet	8	12	10	7	11	9	7	10	8	9	12	10	9	14	11
30 to 40 Feet	13	17	15	10	15	13	12	15	13	16	18	17	13	21	17
40 to 50 Feet	18	21	20	15	20	18	18	20	19	21	25	23	18	20	19
50 to 60 Feet	17	18	18	14	17	15	19	19	19	18	20	19	17	18	17
60 to 70 Feet	11	10	11	12	11	11	13	12	13	11	8	10	9	8	9
70 to 80 Feet	7	5	6	8	6	7	8	6	7	7	4	5	6	4	5
80 to 90 Feet	4	2	3	6	2	4	5	3	4	3	1	2	4	1	3
90 to 100 Feet	2	1	2	3	1	2	2	2	2	2	1	1	2	1	1
above 100 Feet	13	5	9	18	7	13	10	6	8	8	3	6	16	5	10
Mean height Feet	65	51	58	72	54	63	63	54	59	57	48	53	67	48	57

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			302			301			304			303			301
AVG station -N/Kft			11			11			11			11			11
AVG sfc wind Kts	16	15	15	15	15	15	16	15	16	17	15	16	15	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 68 34 S 77 58 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 89571 68 34 S 77 58 E
Radiosonde station height: 39 Feet
Surface obs source: MS432 35 00 S 115 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG thickness Kft			*			*			*			*			*
AVG trap freq GHz			*			*			*			*			*
AVG lyr grd -N/Kft			*			*			*			*			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	1	0	1	2	2	0	0	0	0	0	0	0	0	0
AVG top ht Kft			*			*			*			*			*
AVG thickness Kft			.10			.10			*			*			*
AVG trap freq GHz			3.8			3.8			*			*			*
AVG lyr grd -N/Kft			*			*			*			*			*
AVG lyr base Kft			4.6			4.6			*			*			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	3	3	3	4	4	4	2	3	2	2	2	2	4	3	3
10 to 20 Feet	3	5	4	4	5	4	3	4	4	3	5	4	3	6	5
20 to 30 Feet	8	12	10	7	11	9	7	10	8	9	12	10	9	14	11
30 to 40 Feet	13	17	15	10	15	13	12	15	13	16	18	17	13	21	17
40 to 50 Feet	18	21	20	15	20	18	18	20	19	21	25	23	18	20	19
50 to 60 Feet	17	18	18	14	17	15	19	19	19	18	20	19	17	18	17
60 to 70 Feet	11	10	11	12	11	11	13	12	13	11	8	10	9	8	9
70 to 80 Feet	7	5	6	8	6	7	8	6	7	7	4	5	6	4	5
80 to 90 Feet	4	2	3	6	2	4	5	3	4	3	1	2	4	1	3
90 to 100 Feet	2	1	2	3	1	2	2	2	2	2	1	1	2	1	1
above 100 Feet	13	5	9	18	7	13	10	6	8	8	3	6	16	5	10
Mean height Feet	65	51	58	72	54	63	63	54	59	57	48	53	67	48	57

GENERAL METEOPOLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			276			198			303			305			299
AVG station -N/Kft			10			6.7			11			11			10
AVG sfc wind Kts	16	15	15	15	15	15	16	15	16	17	15	16	15	14	14

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 67 36 S 62 52 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 94986 67 36 S 62 52 E
Radiosonde station height: 49 Feet
Surface obs source: MS440 35 00 S 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	*	*	*	*	*	*	0	0	0
1 GHz	20	5	13	*	*	*	*	*	*	*	*	*	20	5	13
3 GHz	30	10	20	*	*	*	*	*	*	*	*	*	30	10	20
6 GHz	60	43	52	*	*	*	*	*	*	*	*	*	60	43	52
10 GHz	81	74	77	*	*	*	*	*	*	*	*	*	81	74	77
20 GHz	89	85	87	*	*	*	*	*	*	*	*	*	89	85	87

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	0	0	0	0	0	0	0	0	0	0	3	0	2
AVG thickness Kft			.12			*			*			*			.12
AVG trap freq GHz			5.2			*			*			*			5.2
AVG lyr grd -N/Kft			80			*			*			*			80

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	1	0	1	0	0	0	0	0	0	0	1	1
AVG top ht Kft			*			*			*			*			*
AVG thickness Kft			.09			.08			*			*			.10
AVG trap freq GHz			3.1			4.2			*			*			1.9
AVG lyr grd -N/Kft			*			*			*			*			*
AVG lyr base Kft			4.7			5.4			*			*			3.9

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	5	5	5	6	5	3	2	3	4	4	4	7	7	7
10 to 20 Feet	4	6	5	3	5	4	2	4	3	4	6	5	5	8	6
20 to 30 Feet	7	10	8	6	8	7	6	8	7	8	11	10	8	12	10
30 to 40 Feet	9	13	11	8	12	10	9	12	10	11	15	13	9	15	12
40 to 50 Feet	13	17	15	11	16	14	14	17	16	16	19	17	12	16	14
50 to 60 Feet	14	16	15	13	16	14	15	18	16	15	16	16	12	14	13
60 to 70 Feet	12	13	12	11	14	12	14	14	14	12	11	12	10	12	11
70 to 80 Feet	9	8	8	9	7	8	10	9	10	8	7	8	8	7	7
80 to 90 Feet	6	4	5	7	4	6	6	5	5	5	4	4	6	3	4
90 to 100 Feet	4	2	3	4	3	3	5	3	4	3	2	2	4	2	3
above 100 Feet	18	7	12	22	9	16	17	8	12	12	5	9	19	5	12
Mean height Feet	71	54	62	77	57	67	72	58	65	63	51	57	71	50	60

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			9			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			303			299			305			306			302
AVG station -N/Kft			11			10			11			11			11
AVG sfc wind Kts	16	15	15	15	14	14	16	15	15	17	16	16	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 67 40 S 45 51 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 89542 67 40 S 45 51 E
Radiosonde station height: 131 Feet
Surface obs source: MS440 35 00 S 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG thickness Kft			*			*			*			*			*
AVG trap freq GHz			*			*			*			*			*
AVG lyr grd -N/Kft			*			*			*			*			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	1	1	0	0	0	2	1	2	1	0	1
AVG top ht Kft			2.5			3.1			*			2.9			1.4
AVG thickness Kft			.20			.32			*			.14			.12
AVG trap freq GHz			2.3			.36			*			1.6			5.0
AVG lyr grd -N/Kft			76			100			*			70			58
AVG lyr base Kft			2.4			2.9			*			2.8			1.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	5	5	5	6	5	3	2	3	4	4	4	7	7	7
10 to 20 Feet	4	6	5	3	5	4	2	4	3	4	6	5	5	8	6
20 to 30 Feet	7	10	8	6	8	7	6	8	7	8	11	10	8	12	10
30 to 40 Feet	9	13	11	8	12	10	9	12	10	11	15	13	9	15	12
40 to 50 Feet	13	17	15	11	16	14	14	17	16	16	19	17	12	16	14
50 to 60 Feet	14	16	15	13	16	14	15	18	16	15	16	16	12	14	13
60 to 70 Feet	12	13	12	11	14	12	14	14	14	12	11	12	10	12	11
70 to 80 Feet	9	8	8	9	7	8	10	9	10	8	7	8	8	7	7
80 to 90 Feet	6	4	5	7	4	6	6	5	5	5	4	4	6	3	4
90 to 100 Feet	4	2	3	4	3	3	5	3	4	3	2	2	4	2	3
above 100 Feet	18	7	12	22	9	16	17	8	12	12	5	9	19	5	12
Mean height Feet	71	54	62	77	57	67	72	58	65	63	51	57	71	50	60

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			302			300			304			306			299
AVG station -N/Kft			11			11			11			12			11
AVG sfc wind Kts	16	15	15	15	14	14	16	15	15	17	16	16	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 69 00 S 39 34 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 89532 69 00 S 39 34 E
Radiosonde station height: 59 Feet
Surface obs source: MS440 35 00 S 35 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	*	*	*	0	0	0	0	0	0
1 GHz	16	6	11	*	*	*	*	*	*	12	6	9	19	6	13
3 GHz	24	11	18	*	*	*	*	*	*	19	12	16	29	11	20
6 GHz	58	45	51	*	*	*	*	*	*	56	45	51	59	44	52
10 GHz	82	77	79	*	*	*	*	*	*	83	79	81	81	74	77
20 GHz	90	88	89	*	*	*	*	*	*	91	91	91	88	85	87

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	1	0	0	0	0	0	0	0	0	1	1	0	1	1
AVG thickness Kft			.22			*			*			.26			.19
AVG trap freq GHz			1.0			*			*			.82			1.1
AVG lyr grd -N/Kft			126			*			*			110			142

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	1	1	0	5	3	0	0	0	0	0	0	0	0	0
AVG top ht Kft			8.5			8.5			*			*			*
AVG thickness Kft			.18			.18			*			*			*
AVG trap freq GHz			1.1			1.1			*			*			*
AVG lyr grd -N/Kft			78			78			*			*			*
AVG lyr base Kft			8.4			8.4			*			*			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	5	5	5	5	6	5	3	2	3	4	4	4	7	7	7
10 to 20 Feet	4	6	5	3	5	4	2	4	3	4	6	5	5	8	6
20 to 30 Feet	7	10	8	6	8	7	6	8	7	8	11	10	8	12	10
30 to 40 Feet	9	13	11	8	12	10	9	12	10	11	15	13	9	15	12
40 to 50 Feet	13	17	15	11	16	14	14	17	16	16	19	17	12	16	14
50 to 60 Feet	14	16	15	13	16	14	15	18	16	15	16	16	12	14	13
60 to 70 Feet	12	13	12	11	14	12	14	14	14	12	11	12	10	12	11
70 to 80 Feet	9	8	8	9	7	8	10	9	10	8	7	8	8	7	7
80 to 90 Feet	6	4	5	7	4	6	6	5	5	5	4	4	6	3	4
90 to 100 Feet	4	2	3	4	3	3	5	3	4	3	2	2	4	2	3
above 100 Feet	18	7	12	22	9	16	17	8	12	12	5	9	19	5	12
Mean height Feet	71	54	62	77	57	67	72	58	65	63	51	57	71	50	60

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			303			302			302			307			301
AVG station -N/Kft			11			11			11			11			11
AVG sfc wind Kts	16	15	15	15	14	14	16	15	15	17	16	16	16	15	15

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 70 19 S 2 22 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 99001 70 19 S 2 22 W
Radiosonde station height: 171 Feet
Surface obs source: MS486 55 00 S 65 30 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20 GHz	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG thickness Kft			*			*			*			*			*
AVG trap freq GHz			*			*			*			*			*
AVG lyr grd -N/Kft			*			*			*			*			*

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	1	0	0	0	0	0	0	0	0	2	1	0	1	1
AVG top ht Kft			3.7			*			*			*			3.7
AVG thickness Kft			.13			*			*			.19			.08
AVG trap freq GHz			2.7			*			*			1.3			4.4
AVG lyr grd -N/Kft			68			*			*			*			68
AVG lyr base Kft			5.8			*			*			7.9			3.7

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	23	26	24	23	23	23	23	26	24	20	25	23	27	28	27
10 to 20 Feet	27	30	28	21	25	23	31	34	33	29	35	32	25	26	25
20 to 30 Feet	20	21	20	19	19	19	22	20	21	24	22	23	15	20	18
30 to 40 Feet	12	12	12	14	16	15	12	12	12	12	10	11	11	9	10
40 to 50 Feet	5	4	5	6	8	7	3	2	3	5	3	4	6	4	5
50 to 60 Feet	2	2	2	3	3	3	2	2	2	1	1	1	3	3	3
60 to 70 Feet	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
70 to 80 Feet	1	0	1	1	1	1	1	0	1	1	0	0	2	0	1
80 to 90 Feet	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
90 to 100 Feet	1	0	0	1	0	1	0	0	0	1	0	0	1	0	1
above 100 Feet	7	4	5	10	3	7	3	3	3	5	1	3	8	7	8
Mean height Feet	31	25	28	37	28	32	25	23	24	29	21	25	34	29	32

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			308			305			308			312			305
AVG station -N/Kft			13			12			14			14			12
AVG sfc wind Kts	16	16	16	15	15	15	17	16	16	18	17	17	16	15	16

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 77 51 S 166 40 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 89664 77 51 S 166 40 E
Radiosonde station height: 79 Feet
Surface obs source: MS487 55 00 S 75 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	*	*	*	*	*	*	0	0	0	0	0	0
1 GHz	5	4	4	*	*	*	*	*	*	3	4	3	7	4	6
3 GHz	6	5	5	*	*	*	*	*	*	4	4	4	8	5	6
5 GHz	8	7	7	*	*	*	*	*	*	6	5	6	11	8	9
10 GHz	26	22	24	*	*	*	*	*	*	23	18	20	28	26	27
20 GHz	49	47	48	*	*	*	*	*	*	49	45	47	49	48	49

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	0	0	0	0	0	0	0	0	1	0	1	1	0	1
AVG thickness Kft			.10			*			*			.07			.13
AVG trap freq GHz			2.9			*			*			4.2			1.6
AVG lyr grd -N/Kft			137			*			*			88			185

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	0	0	0	0	0	0	4	2	3	0	2
AVG top ht Kft			3.5			*			*			3.2			3.7
AVG thickness Kft			.16			*			*			.17			.15
AVG trap freq GHz			4.1			*			*			5.1			3.2
AVG lyr grd -N/Kft			58			*			*			48			69
AVG lyr base Kft			3.3			*			*			3.0			3.6

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	22	23	23	23	19	21	25	31	28	15	22	19	23	21	22
10 to 20 Feet	30	32	31	20	26	23	35	37	36	36	33	34	28	31	29
20 to 30 Feet	22	24	23	21	25	23	21	20	21	26	27	26	21	23	22
30 to 40 Feet	14	13	13	16	17	17	12	7	10	15	12	13	14	14	14
40 to 50 Feet	3	3	3	4	6	5	2	2	2	3	1	2	4	4	4
50 to 60 Feet	2	1	2	4	1	3	2	1	1	1	0	1	1	1	1
60 to 70 Feet	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1
70 to 80 Feet	1	1	1	2	1	1	0	0	0	0	1	0	0	0	0
80 to 90 Feet	1	0	0	1	0	1	1	0	0	1	0	0	1	0	0
90 to 100 Feet	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0
above 100 Feet	4	3	4	5	3	4	2	1	2	2	4	3	7	4	5
Mean height Feet	28	24	26	32	27	30	22	17	20	25	24	24	31	27	29

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			306			302			310			311			299
AVG station -N/Kft			11			10			12			12			10
AVG sfc wind Kts	18	17	18	17	16	17	18	17	18	18	18	18	19	18	19

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 81 36 N 16 42 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 4310 81 36 N 16 42 W
Radiosonde station height: 131 Feet
Surface obs source: MS218 65 00 N 15 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	2	3	1	1	1	5	3	4	7	3	5	2	1	1
3 GHz	4	2	3	1	1	1	6	4	5	8	3	6	2	1	2
6 GHz	8	5	6	4	2	3	9	6	7	13	8	10	5	3	4
10 GHz	27	21	24	24	17	21	27	25	26	28	22	25	27	22	24
20 GHz	49	44	47	52	41	46	49	53	51	45	38	42	50	45	48

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	1	1	1	1	1	2	2	2	2	2	1	1	1
AVG thickness Kft			.17			.19			.20			.16			.15
AVG trap freq GHz			2.4			2.7			1.7			2.0			3.2
AVG lyr grd -N/Kft			162			137			155			166			190

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG top ht Kft			5.1			.36			10			5.3			*
AVG thickness Kft			.17			.18			.19			.15			*
AVG trap freq GHz			2.1			3.2			.91			2.2			*
AVG lyr grd -N/Kft			59			48			74			56			*
AVG lyr base Kft			5.0			.18			9.5			5.2			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	26	29	28	19	32	25	25	22	24	34	36	35	26	28	27
10 to 20 Feet	25	27	26	30	28	29	26	26	26	22	26	24	24	28	26
20 to 30 Feet	23	23	23	28	24	26	22	28	25	17	17	17	24	23	24
30 to 40 Feet	14	13	14	17	11	14	14	16	15	11	11	11	16	14	15
40 to 50 Feet	5	4	4	3	4	3	5	4	4	5	4	4	6	4	5
50 to 60 Feet	2	1	2	2	1	1	2	0	1	3	3	3	1	1	1
60 to 70 Feet	1	1	1	1	0	0	1	1	1	1	1	1	1	0	0
70 to 80 Feet	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
above 100 Feet	3	1	2	0	0	0	5	3	4	6	2	4	1	1	1
Mean height Feet	24	20	22	21	18	20	27	24	25	28	20	24	22	20	21

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			320			330			314			313			322
AVG station -N/Kft			14			15			12			12			14
AVG sfc wind Kts	19	19	19	24	23	24	17	17	17	14	14	14	21	21	21

IPEPS REV 2.1 HISTORICAL PROPAGATION CO[illegible] JNS SUMMARY

Specified location: 82 30 W 62 19 W (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 74082 82 30 W 62 19 W
Radiosonde station height: 220 Feet
Surface obs source: HS229 65 00 N 35 00 W

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR ESM COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	2	2	1	1	1	4	2	3	6	2	4	2	1	1
3 GHz	4	2	3	2	1	1	5	2	3	7	2	5	2	1	2
6 GHz	6	4	5	2	2	2	7	5	6	11	3	7	5	4	4
10 GHz	24	21	23	18	17	17	19	16	18	28	22	25	29	31	30
20 GHz	50	51	51	50	51	51	42	43	42	47	48	48	59	64	62

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	1	1	1	2	1	2	1	0	1	1	2	2
AVG thickness Kft			.17			.19			.13			.18			.18
AVG trap freq GHz			2.7			2.1			2.8			2.4			4.4
AVG lyr grd -N/Kft			138			155			145			99			155

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	2	2	1	0	1	1	3	2	2	3	3	1	1	1
AVG top ht Kft			2.4			1.6			1.6			5.1			1.4
AVG thickness Kft			.16			.16			.14			.19			.14
AVG trap freq GHz			2.2			2.2			3.6			1.4			1.8
AVG lyr grd -N/Kft			63			55			57			63			78
AVG lyr base Kft			2.3			1.5			1.5			5.0			1.3

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	24	22	23	20	20	20	29	27	28	29	25	27	17	16	17
10 to 20 Feet	27	27	27	30	30	30	31	30	31	24	27	26	24	20	22
20 to 30 Feet	26	30	28	33	34	33	23	28	25	19	26	22	30	33	32
30 to 40 Feet	14	15	14	13	14	13	9	9	9	13	16	15	20	22	21
40 to 50 Feet	4	3	3	3	1	2	3	2	2	5	3	4	5	6	5
50 to 60 Feet	1	1	1	0	0	0	1	1	1	2	1	1	2	2	2
60 to 70 Feet	1	0	0	0	0	0	1	1	1	1	0	1	0	0	0
70 to 80 Feet	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
80 to 90 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
above 100 Feet	3	1	2	1	1	1	3	2	2	5	2	4	1	1	1
Mean height Feet	23	21	22	21	20	20	22	20	21	27	22	24	24	24	24

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SB dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			318			327			313			311			320
AVG station -N/Kft			13			15			12			12			13
AVG sfc wind Kts	18	18	18	21	22	22	16	16	16	13	15	14	21	21	21

IREPS REV 2.1 HISTORICAL PROPAGATION CONDITIONS SUMMARY

Specified location: 80 37 N 58 03 E (*) INDICATES INSUFFICIENT DATA
Radiosonde source : 20046 80 37 N 58 03 E
Radiosonde station height: 66 Feet
Surface obs source: MS252 65 00 N 5 00 E

PERCENT OCCURRENCE OF ENHANCED SURFACE-TO-SURFACE RADAR/ESM/COM RANGES:

FREQUENCY	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
100 MHz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 GHz	3	2	2	1	0	1	5	4	5	4	3	3	2	1	1
3 GHz	3	2	3	1	1	1	6	5	6	5	3	4	2	1	2
6 GHz	7	4	6	2	1	1	9	7	8	9	6	8	8	3	6
10 GHz	31	29	30	24	25	24	26	22	24	33	33	33	40	35	38
20 GHz	59	60	59	60	64	62	53	48	50	57	60	58	66	68	67

SURFACE BASED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	1	1	1	0	1	1	2	0	1	0	1	1	0	1	1
AVG thickness Kft			.16			.12			.13			.23			.15
AVG trap freq GHz			2.3			4.7			1.5			1.7			1.3
AVG lyr grd -N/Kft			232			353			193			282			99

ELEVATED DUCT SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
Percent occurrence	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG top ht Kft			.46			*			*			.46			*
AVG thickness Kft			.40			*			*			.40			*
AVG trap freq GHz			.21			*			*			.21			*
AVG lyr grd -N/Kft			167			*			*			167			*
AVG lyr base Kft			.36			*			*			.36			*

EVAPORATION DUCT HISTOGRAM IN PERCENT OCCURRENCE:

PERCENT OCCURRENCE	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
0 to 10 Feet	15	15	15	10	9	10	19	22	21	19	17	18	13	11	12
10 to 20 Feet	26	25	26	29	28	28	29	31	30	24	23	23	21	20	20
20 to 30 Feet	29	31	30	36	39	38	28	26	27	24	26	25	27	33	30
30 to 40 Feet	18	20	19	18	21	20	14	13	13	17	20	19	22	25	24
40 to 50 Feet	6	5	5	4	3	3	3	2	2	7	7	7	10	7	9
50 to 60 Feet	2	1	2	1	0	1	1	1	1	3	2	3	4	2	3
60 to 70 Feet	1	0	1	0	0	0	1	1	1	1	1	1	1	0	1
70 to 80 Feet	1	0	0	0	0	0	1	1	1	1	0	0	1	0	0
80 to 90 Feet	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90 to 100 Feet	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
above 100 Feet	3	2	2	1	0	0	4	4	4	4	2	3	2	0	1
Mean height Feet	27	25	26	23	23	23	27	25	26	30	27	28	29	25	27

GENERAL METEOROLOGY SUMMARY:

PARAMETER	YEARLY			JAN-MAR			APR-JUN			JUL-SEP			OCT-DEC		
	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n	day	nit	d&n
% occur EL&SE dcts			0			0			0			0			0
% occur 2+ EL dcts			0			0			0			0			0
AVG station N			316			318			314			315			317
AVG station -N/Kft			12			13			12			12			12
AVG sfc wind Kts	18	17	18	20	20	20	15	14	14	15	15	15	21	21	21