

14823B LANCE MISSILE NUMBER 4583 ROUND NUMBER 386 APL 4 1/1

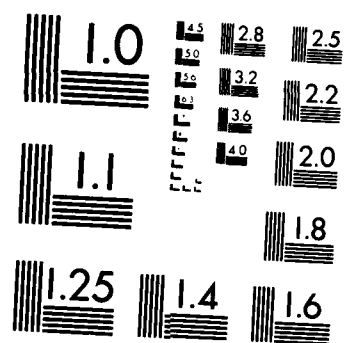
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METEOROLOGICAL DATA REPORT
14823B Lance
Missile Number 4583,
Round Number 386 APL,
4 May 1983

by

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WHITE SANDS MISSILE RANGE, NEW MEXICO

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 14823B Lance, Missile Number 4583, Round Number 386 APL, are presented in tabular form.		

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INTRODUCTION

14823B Lance, Missile Number 4583, Round Number 386 APL, was launched from LC-39, White Sands Missile Range (WSMR), New Mexico, at 0807:28 MDT, 4 May 1983. The scheduled launch time was 0800 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC-39 Met Site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

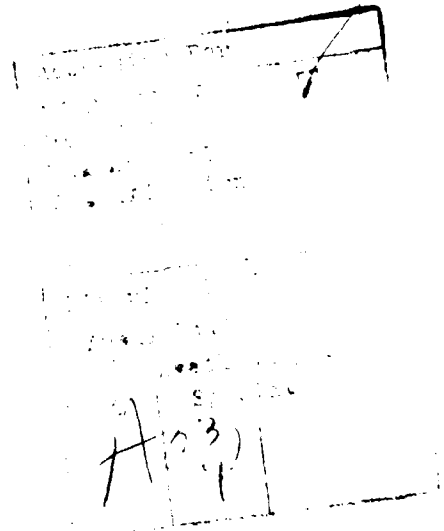
SITE AND ALTITUDE

LC-36 2760 Meters

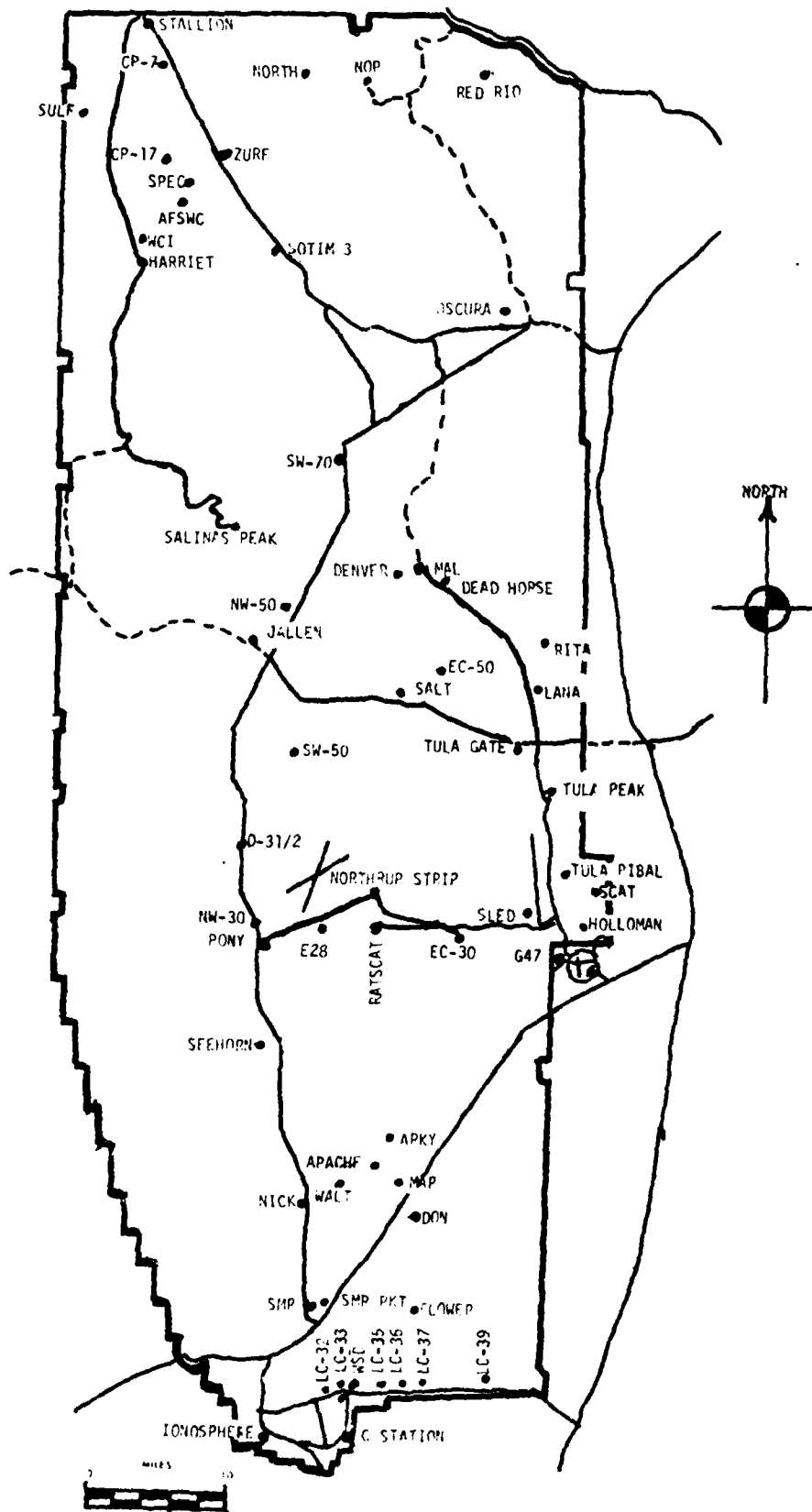
(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to high as possible feet in 500-foot increments.

SITE AND TIME

WSD 0807 MDT
Holloman 0900 MDT
JALLEN 0830 MDT



WSMR METEOROLOGICAL SITES



PROJECT SURFACE OBSERVATION

TABLE 1									
STATION LC-39									
DATE 04		May		83		X= 530,938.82		Y= 186,564.96 H= 4063.75	
TIME M D I		PRESSURE mbs		TEMPERATURE OF °C		DEW POINT OF °C		RELATIVE HUMIDITY %	
0807		8781		14.2		-1.6		33	

OBSTRUCTIONS TO VISIBILITY	CLOUDS						REMARKS		
	1st LAYER		2nd LAYER		3rd LAYER				
	AMT	TYPE	HGT	AMT	TYPE	HGT			
	0	CU	6500	1	AC	12,500	1	CU	25,000

PSYCHROMETRIC COMPUTATION

TIME: MDT	0807	
DRY BULB TEMP.	14.2	
WET BULB TEMP.	6.6	
WET BULB DEPR.	7.6	
DEW POINT	-1.6	
RELATIVE HUMID.	33	

PILOT BALLOON MEASURED WIND DATA

TABLE 2

RELEASED FROM LC-36 DATE 04 May 1983 TIME 0750

COORDINATES (WSTM) X= 504,466.00 Y= 190,732.16 H= 4037.21

NOTE: WIND DIRECTIONS ARE REFERENCED TO _____.

HEIGHTS ARE METERS AGL OR FEET AGL .

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
SFC	020	03
60	342	04
120	344	09
180	004	09
240	360	04
300	360	01
360	188	04
420	184	06
480	190	06
540	186	07
600	218	05
660	231	04
720	228	04
780	213	03
340	218	03
900	228	03
960	235	03
1020	242	03
1080	251	03
1140	233	03
1200	228	05
1260	228	05
1 320	212	05
1380	225	06
1420	226	06
1 500	222	07
1560	224	08
1620	225	09

[illegible][illegible]

PILOT BALLOON MEASURED WIND DATA

TABLE 3

RELEASED FROM LC-36 DATE 04 May 83 TIME 0807

COORDINATES (WSTM) X= 504,466.00 Y= 190,732.16 H= 4037.21

NOTE: WIND DIRECTIONS ARE REFERENCED TO _____.

HEIGHTS ARE METERS AGL OR FEET AGL.

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
SFC	020	03
60	353	04
120	349	07
180	005	08
240	005	05
300	360	02
360	205	02
420	180	05
480	180	06
540	193	05
600	210	04
660	194	04
720	212	05
780	205	05
840	194	04
900	201	04
960	201	05
1020	203	04
1080	228	06
1140	218	05
1200	210	06
1260	207	07
1320	232	05
1380	200	05
1420	219	07
1500	211	08
1560	217	09
1620	206	09

[illegible][illegible]

TABLE 4

COMPUTER MET MESSAGE DATA

4 May 1983

WSD 0807 MDT

METCM1324064

041410122878

00640005	28610873
01006011	28630867
02335002	28980842
03370005	23860803
04365006	28420757
05401012	27970712
06415013	27490670
07457020	27130629
08474023	26930591
09465027	26690554
10479035	26370520
11486036	26050487
12478048	25450441
13481066	24830385
14482076	24370335
15473098	23670291
16463094	23010252
17472106	22250217
18484103	21510185
19477095	21150158
20477080	20840134
21485080	20930114
22495058	20910097
23472066	20410082
24607010	20480070
25484022	21030059
26053007	21340051

HOLLOMAN 0900 MDT

METCM1329061

041500126376

00320006	29130876
01385004	29080866
02312006	28970841
03370008	28710802
04401009	28320755
05451013	27860711
06468018	27420668
07456024	27090628
08467027	26990590
09476028	26660553
10484032	26250519
11483039	25950486
12486044	25340440
13479073	24750384
14486084	24240334
a5473112	23670290
16468127	22950251
17475124	22280216
18481125	21520185
19476129	21120157
20479084	20920134
21493074	21050114
22489076	20910097
23481076	20520082
24489037	20720070
25517006	21180059
26548003	21420051

JALLEN 0830 MDT

METCM1332065

041450124877

00071004	28810877
01028003	28730866
02425001	28730841
03393008	28590802
04411011	28210755
05459013	27750710
06473013	27330668
07452020	26980627
08460027	26350589
09479029	26550552
10479032	26180513
11479038	25910485
12487040	25270439
13479069	24600383
14488085	21180333
15474117	23640289
16465129	22920249
17470130	22210215
18477153	21440184
19475101	21120157
20474116	20930133
21495058	21000113
22500057	21070096
23469073	20500082
24496052	20400069
25552011	21160059
26057006	21340050

STATION ALTITUDE 7000 FEET MSL
4 MAY 63 0807 MDT
ASCI 051 0 00. 215

STATION ELEVATION 12000 FEET
12000 FEET
10115 FEET

GEOL. COORDINATES
32.40093 LAT DEG
106.37053 LONG DEG

TABLE 5

PRECIPITATION IN INCHES	RELATIVE HUMIDITY PERCENT	TEMPERATURE IN DEGREES FAHRENHEIT	WIND DIRECTION IN DEGREES TRUE	WIND SPEED IN MPH
0.775	30.0	12.0	25.0	30.0
0.715	37.0	10.0	24.0	37.0
0.615	30.0	14.5	24	30.0
0.550	34.0	15.3	24	34.0
0.504	35.0	16.5	24	35.0
0.415	33.0	15.5	27	33.0
0.400	38.0	4.8	20.3	38.0
0.470	40.0	-1.3	-13.1	40.0
0.240	32.0	-2.0	-17.0	32.0
0.125	26.0	-2.5	-19.3	26.0
0.000	25.0	-5.0	-21.9	25.0
0.604	26.0	-5.7	-22.1	26.0
0.205	27.0	-9.4	-24.9	27.0
0.700	50.0	-10.9	-21.8	50.0
0.671	55.0	-16.0	-22.9	55.0
0.602	62.0	-16.6	-22.1	62.0
0.202	65.0	-20.0	-24.9	65.0
0.100	69.0	-22.4	-20.5	69.0
0.000	64.0	-24.2	-29.0	64.0
0.858	60.0	-26.2	-31.6	60.0
0.823	30.0	-24.5	-31.3	30.0
0.777	27.0	-24.0	-30.4	27.0
0.307	26.0	-20.0	-43.1	26.0
0.000	28.0	-34.9	-40.9	28.0
0.000	29.0	-39.4	-49.7	29.0
0.000	30.0	-39.4	-49.4	30.0
0.000	33.0	-41.4	-49.5	33.0
0.000		-41.0		
0.507		-43.1		
0.507		-52.5		
0.000		-54.9		
0.000		-60.1		
1.703		-60.3		
1.601		-62.7		
1.500		-62.9		
1.407		-65.9		
1.300		-63.0		
1.200		-63.0		
1.114		-63.0		

STATION: 0807 MDT
 4 MAY 65
 0807 MDT

STATION: 0807 MDT
 4 MAY 65
 0807 MDT

STATION: 0807 MDT
 4 MAY 65
 0807 MDT

TABLE 5 Cont'd

PERCENTAGE OF TOTAL ATTEMPTS	PERCENTAGE OF TOTAL ATTEMPTS	PERCENTAGE OF TOTAL ATTEMPTS	PERCENTAGE OF TOTAL ATTEMPTS
100.0	54.5	54.5	54.5
95.7	53.7	53.7	53.7
77.6	53.1	53.1	53.1
71.3	52.6	52.6	52.6
70.0	52.2	52.2	52.2
66.0	51.0	51.0	51.0
64.7	50.5	50.5	50.5
63.0	50.2	50.2	50.2
62.7	50.1	50.1	50.1
61.3	49.7	49.7	49.7
59.7	49.3	49.3	49.3
59.0	49.0	49.0	49.0
58.7	48.9	48.9	48.9
58.0	48.7	48.7	48.7
57.6	48.6	48.6	48.6
57.0	48.5	48.5	48.5
56.9	48.4	48.4	48.4
56.2	48.1	48.1	48.1

STATION ALTITUDE 2900.0 FEET
 4 MAY 63 0807 MDT
 ASCELS 10.110. 215

OFFICE DATA
 1240020215
 WHITE 500405

GEOLYTIC COORDINATES
 32.400003 LAT DEG
 106.570331 LONG DEG

TABLE 6

GEOLYTIC ALTITUDE FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUMIDITY PERCENT	DENSITY GM/CUBIC CMETER	SPECIFIC HUMIDITY GRAMS KILOGRAMS	WIND DATA DIRECTION DEGREES (TN)	SPEED KILOMETERS	INDEX OF REFRACTION
3989.0	877.5	12.0	30.0	1070.1	050.5	300.0	5.1	1.000258
4000.0	877.1	11.0	30.4	1070.1	050.5	359.9	5.0	1.000258
4500.0	861.3	14.5	36.0	1040.4	061.0	347.6	2.4	1.000259
5000.0	840.0	15.7	33.7	1017.5	063.0	258.2	1.1	1.000254
5500.0	830.0	16.2	33.0	097.0	063.0	208.9	3.2	1.000250
6000.0	810.2	15.7	33.0	081.7	063.0	205.7	4.8	1.000245
6500.0	801.5	14.6	33.4	067.7	063.7	207.5	5.6	1.000241
7000.0	780.9	13.3	34.0	054.7	060.2	205.0	5.7	1.000237
7500.0	772.7	12.0	34.7	041.9	050.0	203.4	5.9	1.000232
8000.0	750.7	10.6	35.3	029.2	057.0	205.5	6.3	1.000228
8500.0	740.0	9.3	35.0	016.0	053.4	210.8	7.3	1.000224
9000.0	731.4	8.0	36.5	004.5	053.9	217.4	8.9	1.000220
9500.0	710.1	6.7	37.1	022.2	052.5	225.0	10.7	1.000216
10000.0	705.1	5.3	37.9	080.5	050.7	227.4	12.6	1.000213
10500.0	692.1	3.9	38.3	068.7	049.0	229.1	13.4	1.000209
11000.0	679.1	2.5	38.6	057.1	047.5	231.4	14.0	1.000205
11500.0	660.5	1.0	39.2	045.0	045.5	237.8	14.0	1.000201
12000.0	654.6	-0.5	39.7	034.4	043.0	244.7	15.0	1.000198
12500.0	641.7	-1.6	39.2	022.2	042.4	251.0	17.4	1.000194
13000.0	629.5	-2.3	39.0	000.0	041.5	256.7	19.7	1.000189
13500.0	617.0	-2.5	38.7	794.4	041.1	261.5	21.7	1.000184
14000.0	605.0	-3.0	38.8	780.7	040.6	265.9	22.1	1.000180
14500.0	594.3	-3.9	38.4	768.4	039.5	264.4	22.5	1.000177
15000.0	582.9	-4.8	38.1	756.3	038.4	260.9	23.0	1.000174
15500.0	571.0	-5.3	37.9	743.1	037.0	261.4	24.6	1.000171
16000.0	560.8	-5.7	37.0	729.9	037.4	263.9	26.1	1.000168
16500.0	549.9	-6.0	36.0	718.0	036.0	267.9	27.6	1.000165
17000.0	539.3	-6.0	35.3	708.0	034.6	268.5	29.6	1.000163
17500.0	520.9	-6.1	35.0	697.4	033.2	268.5	31.9	1.000160
18000.0	510.6	-9.2	34.4	685.0	032.4	268.6	35.1	1.000158
18500.0	500.0	-10.4	35.0	673.0	031.7	269.2	37.1	1.000155
19000.0	490.5	-11.1	40.6	662.2	030.9	270.6	37.5	1.000153
19500.0	480.7	-12.6	40.5	652.9	029.0	272.1	36.6	1.000151
20000.0	479.7	-14.1	40.3	643.0	027.2	273.6	35.4	1.000149
20500.0	469.5	-15.6	38.3	634.0	025.9	272.7	37.3	1.000147
21000.0	460.1	-16.9	62.3	625.0	023.9	271.3	40.0	1.000145
21500.0	450.0	-17.6	63.1	614.0	022.8	270.1	43.5	1.000142
22000.0	441.8	-18.7	63.0	604.4	021.7	269.5	47.1	1.000140
22500.0	432.9	-19.6	64.7	594.4	020.5	269.1	50.7	1.000137
23000.0	424.1	-20.0	66.3	585.0	019.1	269.4	53.5	1.000135

OFFICIAL COORDINATE
32.00043 LAT DEG
106.5/033 LONG DEG

OFFICIAL AIR DATA
1240020215
WHITE SANDS

TABLE 6 Cont'd

STATION ALTITUDE 3000.0 FEET MSL
4 MAY 63 0807 MDT
ASSEMBLY NO. 215

GEOMETRIC ALTITUDE MSL FEET	PRESSURE ALTIMETER, INCHES	TEMPERATURE AIR, DEGREES CELSIUS	REL. HUMIDITY PERCENT	DENSITY GM/CM ³ MULT	SPEED OF SOUND KNOTS	WIND DIRECTION (DEGREES TRUE)	WIND SPEED KNOTS	INDEX OF REFRACTION
23000.0	415.5	-72.2	68.6	576.3	617.4	269.6	56.9	1.000133
24000.0	406.0	-73.3	66.5	567.1	616.0	269.5	62.0	1.000130
24500.0	393.6	-74.4	63.6	557.9	614.6	269.5	65.5	1.000128
25000.0	380.3	-75.6	61.3	548.9	613.1	269.4	67.4	1.000125
25500.0	362.2	-76.5	57.6	535.3	614.4	269.7	67.7	1.000122
26000.0	374.3	-75.2	26.0	525.9	613.5	270.0	67.6	1.000118
26500.0	360.5	-76.0	26.8	516.5	612.5	270.7	68.6	1.000116
27000.0	350.8	-76.8	26.6	507.4	611.5	271.5	69.7	1.000114
27500.0	351.3	-77.6	26.5	498.4	610.5	272.3	71.0	1.000112
28000.0	344.0	-78.4	26.3	489.0	609.5	272.6	72.7	1.000110
28500.0	330.8	-79.2	26.1	480.9	608.5	271.5	75.6	1.000108
29000.0	323.8	-79.0	26.1	472.5	607.5	270.3	78.6	1.000106
29500.0	322.7	-78.1	26.5	464.5	606.1	268.9	81.9	1.000104
30000.0	313.9	-77.3	26.0	456.7	604.7	268.0	85.4	1.000102
30500.0	303.1	-76.4	27.4	449.1	603.3	267.7	89.2	1.000101
31000.0	302.6	-74.5	27.8	441.5	601.9	267.3	92.3	1.000099
31500.0	290.0	-73.7	28.2	434.3	600.3	266.8	94.9	1.000097
32000.0	289.6	-73.1	28.6	427.3	598.6	266.0	97.5	1.000096
32500.0	263.3	-72.4	29.0	420.4	596.9	265.0	100.2	1.000094
33000.0	277.2	-71.5	30.3	411.4	595.8	263.8	101.0	1.000092
33500.0	271.1	-70.0	23.3**	403.0	594.9	262.4	101.2	1.000090
34000.0	263.1	-71.3	2.5**	398.2	593.3	261.4	97.3	1.000089
34500.0	259.2	-71.7		390.1	592.7	260.4	93.1	1.000087
35000.0	253.5	-72.6		382.9	591.6	260.4	90.2	1.000085
35500.0	247.8	-73.6		376.0	590.3	260.7	88.3	1.000084
36000.0	242.2	-74.0		369.4	588.6	261.5	89.7	1.000082
36500.0	236.7	-75.9		362.9	587.2	262.3	92.9	1.000081
37000.0	231.3	-77.1		356.5	585.7	263.1	98.8	1.000079
37500.0	226.6	-78.3		350.2	584.1	264.0	105.9	1.000078
38000.0	220.9	-79.5		344.1	582.6	264.7	113.7	1.000077
38500.0	215.9	-80.7		338.1	581.0	265.5	115.4	1.000075
39000.0	211.0	-81.9		332.2	579.5	266.3	112.0	1.000074
39500.0	206.1	-83.2		326.4	577.6	267.2	105.4	1.000073
40000.0	201.3	-84.5		320.6	576.0	268.4	94.9	1.000071
40500.0	196.5	-85.7		314.8	574.5	269.8	88.6	1.000070
41000.0	191.8	-86.7		308.8	573.2	271.3	88.5	1.000069
41500.0	187.3	-87.3		302.9	571.8	272.5	89.8	1.000067
42000.0	182.0	-87.8		297.1	570.4	273.1	93.8	1.000066
42500.0	176.5	-89.8		291.5	569.0	273.3	97.1	1.000065
43000.0	174.3	-90.2		285.0	568.5	272.6	98.3	1.000063

** AT LAST ONE ASS. MED. RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 5999.0 FEET SL
 0 MAY 63 0807 MDT
 050510.0 10. 215

UPPER AIR DATA
 124002015
 00177 SAMPLES

TABLE 6 Cont'd

GEOD. TRAC ALTITUDE USL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	DEWPOINT CENTIGRADE	REL. HUMID. PERCENT	DENSITY G./CM ³ FILTER	SPEED OF SOUND M/SEC	WIND DATA DIRECTION DEGREES (TD)	SPEED KNOTS	INDEX OF REFRACTION
43500.0	170.1	-70.3			270.3	560.4	271.9	93.5	1.000062
44000.0	160.6	-70.7			272.1	567.9	270.7	100.1	1.000061
44500.0	162.6	-71.2			260.1	567.2	269.5	100.7	1.000059
45000.0	150.0	-71.7			260.3	560.6	268.7	100.9	1.000058
45500.0	154.2	-72.1			254.0	563.9	268.0	100.9	1.000057
46000.0	150.5	-72.6			249.0	565.2	267.4	100.4	1.000055
46500.0	140.8	-72.8			243.2	563.0	267.2	98.8	1.000054
47000.0	143.2	-73.5			238.0	564.1	267.0	96.9	1.000053
47500.0	139.7	-74.3			235.1	563.0	267.3	92.2	1.000052
48000.0	130.3	-75.2			226.3	561.6	267.6	87.5	1.000051
48500.0	135.3	-75.8			223.4	560.9	268.6	84.8	1.000050
49000.0	129.7	-75.3			217.4	561.6	269.6	82.2	1.000048
49500.0	120.5	-74.8			211.6	562.3	270.2	81.3	1.000047
50000.0	123.4	-74.3			205.9	563.0	270.6	81.1	1.000046
50500.0	120.4	-73.8			200.3	563.7	271.0	80.8	1.000045
51000.0	117.5	-73.8			195.4	563.7	271.4	79.8	1.000044
51500.0	114.6	-73.8			190.7	563.7	271.7	78.9	1.000042
52000.0	111.8	-73.8			186.0	563.7	272.4	76.4	1.000041
52500.0	109.1	-73.8			181.5	563.7	273.2	73.5	1.000040
53000.0	100.4	-73.8			177.0	563.7	274.1	69.6	1.000039
53500.0	103.8	-73.8			172.7	563.7	275.4	63.5	1.000038
54000.0	101.3	-73.8			168.5	563.7	276.9	57.4	1.000038
54500.0	96.8	-73.8			164.4	563.7	277.3	54.2	1.000037
55000.0	90.4	-73.8			160.4	563.7	277.5	51.6	1.000036
55500.0	94.0	-73.8			156.5	563.7	276.4	51.6	1.000035
56000.0	91.7	-74.7			153.2	562.3	273.7	55.8	1.000034
56500.0	89.4	-75.7			150.2	561.1	271.4	60.2	1.000033
57000.0	87.2	-76.8			147.2	559.7	269.6	63.7	1.000033
57500.0	85.6	-77.8			144.3	558.2	268.0	67.1	1.000032
58000.0	82.9	-78.0			141.4	550.8	267.1	67.2	1.000031
58500.0	80.9	-79.0			138.6	553.4	267.2	59.9	1.000031
59000.0	78.8	-79.9			135.8	554.0	267.3	52.5	1.000030
59500.0	76.9	-71.6			132.9	553.1	269.3	40.4	1.000030
60000.0	74.9	-71.6			129.5	553.1	274.5	26.6	1.000029
60500.0	73.0	-71.6			126.2	553.1	267.7	15.0	1.000028
61000.0	71.2	-71.4			122.9	553.4	302.6	12.4	1.000027
61500.0	69.4	-78.5			118.1	557.3	323.2	11.0	1.000026
62000.0	67.7	-76.1			113.9	560.6	298.9	17.5	1.000025
62500.0	65.0	-73.7			109.6	563.0	245.0	28.9	1.000024
63000.0	64.4	-72.6			106.6	563.2	279.0	39.9	1.000024

STATION ALTITUDE 530.00 FEET MSL
 4 MAY 73 0807 MDT
 ASCENDING 100.215

TEMPERATURE DATA
 1250020215
 WIND SPEED

TABLE 6 Cont'd

STATION ALTITUDE MSL FEET	PRESSURE	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUMIDITY PERCENT	DENSITY GM/CUBIC CENTIMETER	SPEED OF SOUND KIOTS	WIND DATA DIRECTION DEGREES (TN)	WIND SPEED KIOTS	INDEX OF REFRACTION
63500.0	62.9	-0.1.6	103.5	560.7	275.3	275.3	49.1	1.000023
64000.0	61.3	-0.0.5	100.5	566.1	272.8	272.8	58.5	1.000022
64500.0	59.9	-0.9.4	97.6	569.5	273.3	273.3	50.5	1.000022
65000.0	58.4	-0.9.3	95.2	569.6	273.0	273.0	38.5	1.000021
65500.0	57.3	-0.9.0	93.0	569.6	270.6	270.6	26.0	1.000021
66000.0	55.7	-0.9.5	90.8	569.5	292.4	292.4	12.4	1.000020
66500.0	54.3	-0.9.5	88.0	569.4	25.4	25.4	6.2	1.000020
67000.0	53.5	-0.9.6	80.5	569.4	42.3	42.3	8.0	1.000019
67500.0	51.8	-0.9.6	84.5	569.3	32.6	32.6	7.1	1.000019
68000.0	50.5	-0.9.7	82.5	569.2	16.0	16.0	6.3	1.000018
68500.0	49.3	-0.9.3	80.4	569.7	333.2	333.2	6.6	1.000018
69000.0	48.2	-0.8.5	78.2	570.7	300.8	300.8	9.7	1.000017
69500.0	47.0	-0.7.8	76.1	571.7	297.9	297.9	11.8	1.000017
70000.0	45.9	-0.7.2	74.1	572.5	293.6	293.6	12.8	1.000016
70500.0	44.8	-0.7.0	72.2	572.8	289.9	289.9	13.9	1.000016
71000.0	43.8	-0.6.8	70.5	573.1	284.7	284.7	14.9	1.000016
71500.0	42.7	-0.6.6	66.7	573.4	280.2	280.2	16.1	1.000015
72000.0	41.7	-0.6.3	67.1	573.6	276.7	276.7	17.2	1.000015
72500.0	40.8	-0.6.1	65.4	573.9	274.1	274.1	18.2	1.000015
73000.0	39.8	-0.5.9	63.8	574.2	271.7	271.7	19.2	1.000014
73500.0	38.9	-0.5.7	62.3	574.5	270.6	270.6	18.6	1.000014
74000.0	38.0	-0.5.4	60.7	574.8	270.0	270.0	17.3	1.000014
74500.0	37.1	-0.5.2	59.2	575.1	269.2	269.2	15.9	1.000013
75000.0	36.2	-0.5.0	57.8	575.4	269.1	269.1	15.2	1.000013
75500.0	35.3	-0.4.8	56.4	575.7	269.1	269.1	14.6	1.000013
76000.0	34.5	-0.4.5	55.0	576.1	269.0	269.0	13.6	1.000012
76500.0	33.7	-0.4.1	53.6	576.6	269.1	269.1	12.1	1.000012
77000.0	32.9	-0.3.7	52.3	577.2	269.2	269.2	10.6	1.000012
77500.0	32.2	-0.3.2	51.0	577.7	269.4	269.4	6.6	1.000011
78000.0	31.4	-0.2.8	49.7	578.3	275.0	275.0	.7	1.000011
78500.0	30.7	-0.2.4	48.4	578.8	67.9	67.9	5.2	1.000011
79000.0	30.0	-0.2.0	47.2	579.4	68.3	68.3	10.1	1.000011
79500.0	29.3	-0.1.4	46.0	580.2	68.4	68.4	14.9	1.000010
80000.0	28.6	-0.0.8	44.8	580.9	68.5	68.5	19.2	1.000010
80500.0	28.0	-0.0.2	43.7	581.7	68.5	68.5	20.4	1.000010
81000.0	27.3	-0.9.6	42.6	582.5	68.5	68.5	21.6	1.000009
81500.0	26.7	-0.9.0	41.5	583.3				1.000009
82000.0	26.1	-0.8.4	40.5	584.0				1.000009
82500.0	25.5	-0.7.8	39.4	584.8				1.000009
83000.0	24.9	-0.7.2	38.4	585.6				1.000009

STATION ALTITUDE 3994.0 FEET MSL
4 MAY 63 0807 MDT
ASCENDING NO. 215

EXHAUSTORY LOG
1240020215
WULF SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

TABLE 7 Cont'd

PRESSURE (POUNDS PER SQUARE INCH)		TEMPERATURE		WIND DATA	
MILLIBARS	FEET	AIR DEGREE CELSIUS	WIND DIRECTION DEGREE TRUE	WIND SPEED KNOTS	WIND SPEED KNOTS
852.0	4364.	15.3	-0.4	298.2	1.0
805.0	552.	14.5	-1.4	207.4	5.7
751.0	835.	9.8	-4.7	207.9	9.8
700.0	1019.	4.8	-8.3	228.2	14.9
658.0	1215.1	-0.0	-12.8	246.9	15.7
606.0	14236.	-3.5	-20.3	266.7	22.4
559.0	16479.	-6.8	-22.9	267.9	27.6
503.0	18808.	-10.0	-21.8	270.3	37.4
458.0	21516.	-17.6	-23.2	270.0	43.8
400.0	24374.	-24.2	-29.0	269.5	65.2
350.0	27548.	-27.8	-41.1	272.4	71.2
305.0	31135.	-34.9	-46.9	267.1	93.2
258.0	35230.	-43.1		260.5	86.6
208.0	40039.	-54.9		268.7	92.5
175.0	42803.	-60.2		272.8	90.0
150.0	45942.	-62.7		267.4	100.2
125.0	49509.	-64.6		270.4	81.2
100.0	54007.	-63.8		277.2	55.7
80.0	58527.	-70.3		267.2	57.1
70.0	61117.	-69.3		314.2	11.4
60.0	64223.	-50.5		273.1	52.4
50.0	67966.	-50.7		359.9	0.0
45.0	72596.	-55.9		272.4	13.9
30.0	78647.	-52.0		68.2	9.6
25.0	82563.	-47.3			

STATION ALTITUDE 9126.59 FEET MSL
4 MAY 83 0900 MDT
ASCENDING TO 100

SIGNIFICANT LEVEL DATA
1240010109
HOLLOWAY

WFOD: TL COORDINATES
32.1816° LAT DEG
106.0996° LONG DEG

TABLE 8

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUMIDITY PERCENT
670.2	4126.6	17.8	74.0
671.2	4280.0	17.3	70.0
650.0	4073.0	16.7	19.0
777.8	7433.5	11.8	21.0
700.0	10280.5	3.8	31.0
638.4	12717.6	-2.2	18.0
577.4	15331.4	-3.7	15.0
519.6	18032.1	-11.0	14.0
500.0	19001.0	-12.2	17.0
461.0	21624.6	-17.0	60.0
444.0	21673.6	-18.9	56.0
433.6	22526.0	-20.7	67.0
400.0	24070.2	-25.6	62.0
390.2	25061.2	-26.4	44.0
387.2	25295.2	-25.4	36.0
375.8	25059.0	-25.3	17.0
326.0	29167.1	-31.8	17.0
300.0	31231.7	-34.6	18.0
275.7	33157.2	-39.0	19.0
250.0	35343.7	-44.0	
219.6	38176.9	-49.0	
200.0	40175.1	-54.8	
178.6	42535.2	-59.4	
164.2	44259.4	-62.0	
150.0	46102.6	-62.2	
132.8	48560.1	-64.9	
116.2	51271.9	-62.2	
100.0	54323.0	-63.5	
89.8	56494.7	-65.1	
76.8	60118.0	-71.1	
70.0	61431.9	-65.5	
63.2	63509.0	-60.5	
59.1	64883.2	-62.2	
50.0	68325.3	-58.6	
30.0	79105.2	-51.8	
26.0	82204.7	-47.4	
20.0	87938.0	-48.0	
19.7	89414.4	-45.2	
13.5	96654.0	-43.0	
12.2	98035.2	-39.0	

STATION ALTITUDE 4126.00 FEET SL
 0900 MDT
 0100

UPPER AIR DATA
 1240010109
 HOLLOWAY

GEOMETRIC COORDINATES
 32.000065 LAT DEG
 106.009965 LONG DEG

TABLE 9

GEOMETRIC ALTITUDE FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DIRECTION DEGREES (IN)	WIND SPEED KNOTS	INDEX OF REFRACTION
4126.0	876.2	17.8	24.0	180.0	6.0	1.000255
4500.0	864.0	17.1	19.7	183.9	6.1	1.000244
5000.0	849.3	16.7	19.0	188.6	6.2	1.000243
5500.0	834.1	15.7	19.4	193.6	6.4	1.000239
6000.0	819.1	14.7	19.8	198.2	6.7	1.000236
6500.0	804.5	13.7	20.2	205.2	7.6	1.000232
7000.0	790.1	12.7	20.6	209.8	8.4	1.000228
7500.0	775.9	11.6	21.2	211.8	8.4	1.000225
8000.0	761.7	10.2	23.0	218.7	8.1	1.000222
8500.0	747.8	8.8	24.7	232.1	7.8	1.000219
9000.0	734.1	7.4	26.5	245.3	9.1	1.000216
9500.0	720.6	6.0	28.2	254.4	11.2	1.000213
10000.0	707.4	4.6	30.0	256.4	13.6	1.000210
10500.0	694.4	3.3	29.9	258.2	15.8	1.000206
11000.0	681.3	2.0	27.2	260.8	17.3	1.000202
11500.0	668.5	.8	24.5	261.8	18.4	1.000197
12000.0	656.0	-.4	21.8	261.5	19.1	1.000193
12500.0	643.7	-1.7	19.2	259.6	20.9	1.000189
13000.0	631.5	-2.4	17.1	257.3	23.2	1.000186
13500.0	619.5	-2.6	17.1	257.4	25.2	1.000182
14000.0	607.7	-2.9	16.5	256.0	27.1	1.000179
14500.0	596.1	-3.2	16.0	260.7	27.3	1.000175
15000.0	584.8	-3.5	15.4	263.4	27.4	1.000172
15500.0	573.6	-4.2	14.9	264.8	27.5	1.000169
16000.0	562.5	-5.5	14.8	266.3	27.8	1.000166
16500.0	551.6	-6.9	14.6	267.5	28.5	1.000164
17000.0	541.0	-8.2	14.4	268.7	29.5	1.000161
17500.0	530.5	-9.6	14.2	270.2	31.0	1.000158
18000.0	520.3	-10.9	14.0	271.6	32.4	1.000156
18500.0	510.0	-11.6	15.4	272.8	33.7	1.000153
19000.0	500.0	-12.2	17.0	272.8	35.4	1.000151
19500.0	490.1	-13.4	27.6	272.3	37.4	1.000150
20000.0	480.4	-14.6	38.2	271.2	38.2	1.000148
20500.0	470.8	-15.8	48.9	270.7	38.9	1.000147
21000.0	461.5	-16.9	59.5	271.0	38.8	1.000145
21500.0	452.2	-18.4	57.1	273.0	39.8	1.000142
22000.0	443.0	-19.6	60.2	274.3	41.9	1.000140
22500.0	434.1	-20.6	66.7	274.4	45.6	1.000138
23000.0	425.2	-21.9	65.8	274.0	50.0	1.000135
23500.0	416.4	-23.2	64.5	272.1	56.7	1.000133

STATION ALTITUDE 6126.09 FEET (150)
 4 DAY 23
 ASCENDING NO. 100 0900 MDT

UNIT AIR DATA
 1.000101009
 0.011000000

GEODETIC COORDINATES
 32.60366 LAT DEG
 106.69465 LONG DEG

TABLE 9 Cont'd

GEODETIC ALTITUDE FSL FEET	PRESSURE MILLIBARS DECIMALS	TEMPERATURE AIR DEGREES CENTIGRADE	RELATIVE HUMIDITY PERCENT	DENSITY GM/CM ³ MULT	SPEED OF SOUND KI/HR	WIND DIRECTION, DEGREES (TH)	WIND SPEED KI/HR	INDEX OF REFRACTION
24000.0	467.0	-24.4	63.2	571.0	614.6	270.8	63.6	1.000130
24500.0	399.5	-25.6	61.1	562.0	613.0	270.1	70.6	1.000128
25000.0	391.2	-26.3	45.0	551.9	612.2	269.6	74.4	1.000125
25500.0	383.1	-25.4	29.2	538.5	613.5	269.7	76.6	1.000121
26000.0	375.1	-25.4	17.0	527.4	613.3	269.6	72.0	1.000118
26500.0	367.3	-26.4	17.0	518.5	612.0	269.6	67.3	1.000116
27000.0	359.6	-27.4	17.0	509.7	610.7	270.8	69.5	1.000114
27500.0	352.0	-28.4	17.0	501.1	609.5	271.9	72.2	1.000112
28000.0	344.6	-29.4	17.0	492.6	608.2	272.9	79.9	1.000110
28500.0	337.4	-30.4	17.0	484.3	606.9	273.5	86.7	1.000108
29000.0	330.3	-31.5	17.0	476.1	605.7	273.5	89.3	1.000107
29500.0	323.3	-32.3	17.2	467.5	604.7	273.2	92.3	1.000105
30000.0	316.4	-32.0	17.4	458.8	603.8	272.1	96.3	1.000103
30500.0	309.6	-33.6	17.6	450.3	603.0	270.9	100.1	1.000101
31000.0	303.0	-34.3	17.9	441.9	602.1	269.3	103.8	1.000099
31500.0	296.5	-35.2	18.1	434.1	601.0	267.7	107.6	1.000097
32000.0	290.1	-36.4	18.4	426.7	599.5	266.0	111.6	1.000095
32500.0	283.8	-37.5	18.7	419.5	598.1	264.8	115.9	1.000094
33000.0	277.6	-38.6	19.0	412.4	596.6	263.8	120.4	1.000092
33500.0	271.5	-39.8	16.0**	405.3	595.1	263.2	122.5	1.000090
34000.0	265.5	-40.9	11.7**	398.3	593.7	262.7	124.3	1.000089
34500.0	259.6	-42.1	7.3**	391.4	592.2	262.5	121.3	1.000087
35000.0	253.9	-43.2	3.0**	384.0	590.7	262.4	117.8	1.000086
35500.0	248.2	-44.3		377.8	589.4	263.0	115.7	1.000084
36000.0	242.6	-45.2		370.7	588.2	263.7	113.8	1.000083
36500.0	237.1	-46.0		363.7	587.1	264.6	118.0	1.000081
37000.0	231.8	-46.9		356.9	586.0	265.5	121.5	1.000079
37500.0	226.5	-47.8		350.2	584.8	265.9	118.8	1.000078
38000.0	221.4	-48.7		343.6	583.7	266.3	116.0	1.000077
38500.0	216.3	-49.9		337.6	582.0	266.8	112.8	1.000075
39000.0	211.3	-51.4		332.0	580.2	267.3	110.9	1.000074
39500.0	206.4	-52.8		326.4	578.2	267.9	117.3	1.000073
40000.0	201.6	-54.3		321.0	576.3	268.9	122.3	1.000071
40500.0	196.9	-55.4		315.1	574.8	272.5	119.6	1.000070
41000.0	192.2	-56.4		309.0	573.5			1.000069
41500.0	187.7	-57.4		303.0	572.3			1.000067
42000.0	183.2	-58.4		297.2	571.0			1.000066
42500.0	178.9	-59.3		291.5	569.7			1.000065
43000.0	174.6	-60.1		285.5	568.6			1.000064
43500.0	170.4	-60.9		279.6	567.6			1.000062

** AT LAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DIRECTION DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 9125.9 Feet abv
4 MAY 53 0900 MDT
ASL 51.110. 100

UPPER AIR DATA
1240010107
HOLLAND

GEODETIC COORDINATES
32.00065 LAT 066
106.09065 LONG DEG

TABLE 9 Cont'd

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³	WIND DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
44500.0	160.3	-61.0		273.8		560.6	1.000061
44500.0	162.3	-62.1		267.8		560.1	1.000060
45000.0	150.3	-62.1		261.3		560.0	1.000058
45500.0	154.5	-62.1		255.1		565.9	1.000057
46000.0	150.9	-62.2		248.9		565.8	1.000055
46500.0	147.1	-62.0		243.4		565.2	1.000054
47000.0	143.5	-63.2		236.1		564.5	1.000053
47500.0	140.0	-63.7		232.9		563.8	1.000052
48000.0	136.6	-64.3		227.6		563.0	1.000051
48500.0	133.2	-64.3		222.0		562.3	1.000050
49000.0	130.0	-64.5		217.0		562.8	1.000048
49500.0	126.8	-64.0		211.2		563.5	1.000047
50000.0	123.7	-63.5		205.0		564.1	1.000046
50500.0	120.7	-63.0		200.1		564.8	1.000045
51000.0	117.8	-62.5		194.7		565.5	1.000043
51500.0	114.9	-62.3		189.6		565.7	1.000042
52000.0	112.1	-62.5		185.4		565.4	1.000041
52500.0	109.4	-62.7		181.1		565.1	1.000040
53000.0	106.7	-62.9		176.9		564.8	1.000039
53500.0	104.1	-63.1		172.7		564.6	1.000038
54000.0	101.6	-63.4		168.7		564.3	1.000037
54500.0	99.1	-63.6		164.8		563.9	1.000036
55000.0	96.7	-64.0		161.1		563.4	1.000035
55500.0	94.3	-64.4		157.4		562.9	1.000034
56000.0	92.0	-64.7		153.8		562.4	1.000033
56500.0	89.8	-65.1		150.3		561.9	1.000033
57000.0	87.5	-65.2		147.2		561.8	1.000033
57500.0	85.4	-65.4		144.1		559.7	1.000032
58000.0	83.2	-67.6		141.1		558.0	1.000031
58500.0	81.2	-68.4		138.1		557.4	1.000031
59000.0	79.1	-69.2		135.2		556.3	1.000030
59500.0	77.2	-70.1		132.4		555.2	1.000029
60000.0	75.2	-70.9		129.6		554.0	1.000028
60500.0	73.4	-69.5		125.5		550.0	1.000027
61000.0	71.5	-67.3		121.1		548.4	1.000026
61500.0	69.8	-65.3		116.9		561.6	1.000025
62000.0	68.1	-64.1		113.5		563.2	1.000025
62500.0	66.4	-62.9		110.1		564.9	1.000024
63000.0	64.8	-61.7		106.6		560.5	1.000023
63500.0	63.2	-60.5		103.0		560.1	1.000023

AX WIND DATA IN FLID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALBUQUERQUE 4250009 ELEV 1000
 0900 MDT

UPPER AIR DATA
 1240010109
 HALLCOMAIR

GEODOLITE COORDINATES
 32°00'00" LAT NEG
 106°09'00" LONG NEG

TABLE 9 Cont'd

GEODOLITE ALBUQUERQUE	PRESSURE MILLIBARS	TEMPERATURE DEGREES CELSIUS	REL. HUMID. PERCENT	DENSITY GM/CM ³	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
00000.0	61.7	-11.1		101.4	567.3		1.000023
00500.0	60.2	-11.7		99.2	560.5		1.000022
01000.0	59.3	-12.1		97.0	560.0		1.000022
01500.0	57.4	-11.6		94.4	567.7		1.000021
02000.0	56.3	-11.0		91.9	567.4		1.000020
02500.0	54.6	-10.5		89.5	560.1		1.000020
03000.0	53.3	-10.0		87.1	560.8		1.000019
03500.0	52.2	-9.5		84.8	569.5		1.000019
04000.0	50.8	-9.0		82.6	570.2		1.000018
04500.0	49.6	-8.5		80.5	570.8		1.000018
05000.0	48.4	-8.2		78.5	571.2		1.000017
05500.0	47.3	-7.9		76.5	571.6		1.000017
06000.0	46.2	-7.5		74.6	572.0		1.000017
06500.0	45.1	-7.2		72.6	572.5		1.000016
07000.0	44.0	-6.9		71.0	572.9		1.000016
07500.0	43.0	-6.6		69.2	573.3		1.000015
08000.0	42.0	-6.3		67.5	573.7		1.000015
08500.0	41.0	-6.0		65.8	574.1		1.000015
09000.0	40.1	-5.7		64.2	574.5		1.000014
09500.0	39.1	-5.3		62.0	575.0		1.000014
10000.0	38.2	-5.0		61.0	575.4		1.000014
10500.0	37.3	-4.7		59.5	575.8		1.000013
11000.0	36.4	-4.4		58.0	576.2		1.000013
11500.0	35.6	-4.1		56.6	576.6		1.000013
12000.0	34.8	-3.8		55.2	577.0		1.000012
12500.0	33.9	-3.4		53.8	577.5		1.000012
13000.0	33.1	-3.1		52.5	577.9		1.000012
13500.0	32.4	-2.8		51.2	578.3		1.000011
14000.0	31.6	-2.5		49.9	578.7		1.000011
14500.0	30.9	-2.2		48.7	579.1		1.000011
15000.0	30.1	-1.9		47.5	579.5		1.000011
15500.0	29.5	-1.2		46.2	580.3		1.000010
16000.0	28.8	-1.0		45.0	581.3		1.000010
16500.0	28.1	-0.8		43.9	582.2		1.000010
17000.0	27.5	-0.1		42.7	583.1		1.000010
17500.0	26.9	-0.4		41.6	584.0		1.000009
18000.0	26.2	-0.7		40.6	585.0		1.000009
18500.0	25.7	-0.7		39.6	585.3		1.000009
19000.0	25.1	-0.7		38.7	585.2		1.000009
19500.0	24.5	-0.7		37.8	585.2		1.000008

319.0 18.6
 304.2 17.4
 288.3 17.4
 279.2 24.2
 274.4 31.6
 271.8 37.5
 271.2 35.4
 270.6 33.4
 270.3 26.9
 270.9 13.4
 28.0 .3
 87.9 8.8
 88.6 14.3
 88.9 10.9
 88.9 17.9
 88.0 14.4
 89.0 10.9
 89.0 8.2
 89.0 5.5
 86.6 3.2
 75.5 3.3
 65.2 3.5
 58.2 4.0
 49.6 4.9
 45.1 5.9
 43.4 6.4

AX WIND DATA IN ALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 10000 FT
 4 DAY 83
 0900 MDT

UNIT AREA DATA
 100010109
 10000000

GEODETIC COORDINATES
 32.000000 LAT DEG
 106.000000 LONG DEG

TABLE 9 Cont'd

GEOP TRAC ALTITUDE MSL FEET	PRF SAMPLE MILLIONths	TEMPERATURE AD. DEGREE C	WIND DIRECTION DEGREES	DENSITY G/M ³	SOUND SPEED M/S	WIND DATA VELOCITY (M) KNOTS	REFRACTION INDEX
89000.0	25.0	-07.6	44.1	37.0	585.1	44.1	1.000008
89500.0	25.0	-07.6	44.9	36.2	585.0	44.9	1.000008
90000.0	25.0	-07.7	48.9	35.5	585.0	48.9	1.000008
90500.0	22.0	-07.7	50.3	34.0	584.9	50.3	1.000008
91000.0	21.0	-07.8	54.0	33.8	584.8	54.0	1.000008
91500.0	21.0	-07.8	69.3	33.0	584.8	69.3	1.000007
92000.0	20.0	-07.9	73.3	32.5	584.7	73.3	1.000007
92500.0	20.0	-08.0	77.5	31.6	584.6	77.5	1.000007
93000.0	19.0	-07.9	78.2	30.0	584.7	78.2	1.000007
93500.0	19.0	-06.9	76.8	30.0	585.9	76.8	1.000007
94000.0	19.1	-06.0	72.1	29.2	587.2	72.1	1.000006
94500.0	18.6	-05.2	77.7	28.5	588.2	77.7	1.000006
95000.0	16.2	-05.0	271.4	28.5	588.4	271.4	1.000006
95500.0	17.0	-04.9	270.1	27.2	588.6	270.1	1.000006
96000.0	17.0	-04.7	268.3	26.6	588.6	268.3	1.000006
96500.0	16.0	-04.6	267.1	25.9	589.0	267.1	1.000006
97000.0	16.0	-04.4	260.5	25.4	589.2	260.5	1.000006
97500.0	16.3	-04.3	265.8	24.8	589.4	265.8	1.000006
98000.0	15.9	-04.1	265.2	24.2	589.6	265.2	1.000005
98500.0	15.0	-04.0	264.7	23.6	589.8	264.7	1.000005
99000.0	15.2	-03.8	264.4	23.1	590.0	264.4	1.000005
99500.0	14.0	-03.7	264.8	22.6	590.2	264.8	1.000005
100000.0	14.5	-03.5	265.2	22.1	590.4	265.2	1.000005
100500.0	14.2	-03.4	265.5	21.6	590.6	265.5	1.000005
101000.0	13.9	-03.2		21.1	590.8		1.000005
101500.0	13.6	-03.0		20.6	591.0		1.000005
102000.0	13.3	-02.4		20.1	591.8		1.000004
102500.0	13.0	-01.5		19.6	592.9		1.000004
103000.0	12.7	-00.6		19.1	594.0		1.000004
103500.0	12.4	-09.8		18.6	595.2		1.000004

STATION ALTITUDE 9126.9 FEET MSL
4 MAY 5 0900 MDT
ASCENDING 100. 100

LABORATORY LEVELS
1290010109
HOLLAND.

MODELLIC COORDINATES
32.00065 LAT DEG
106.09965 LONG DEG

TABLE 10

PRESSURE OF OROGRAPHIC		TEMPERATURE		WIND DATA	
HEIGHTS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT FURCUL	DIRECTION DEGREES (T)	SPEED KNOTS
150.	4972.	16.7	-7.0	19.	0.2
600.	6654.	13.6	-8.9	20.	0.0
750.	8421.	9.0	-10.2	24.	7.8
700.	10277.	3.8	-11.7	31.	14.9
650.	12234.	-1.0	-20.8	21.	19.7
600.	14317.	-3.1	-25.2	16.	27.2
550.	16565.	-7.1	-29.0	13.	28.6
500.	18975.	-12.2	-32.2	17.	35.4
450.	21587.	-19.7	-25.2	50.	40.2
400.	24430.	-25.6	-30.7	62.	70.0
350.	27598.	-28.7	-46.0	17.	74.3
300.	31171.	-34.6	-50.4	18.	105.4
250.	35268.	-40.0			110.4
200.	40080.	-50.8			121.4
175.	42897.	-60.0			9999.0XX
150.	45980.	-62.2			9999.0XX
125.	49608.	-63.7			9999.0XX
100.	54157.	-63.5			9999.0XX
80.	58606.	-65.0			9999.0XX
70.	61223.	-65.5			9999.0XX
60.	64346.	-61.8			9999.0XX
50.	68071.	-50.6			9999.0XX
40.	72704.	-55.6			31.0
30.	78770.	-51.8			10.6
25.	82695.	-47.5			0.0
20.	87529.	-48.0			4.5
15.	93837.	-43.7			35.8

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 651.00 FEET MSL
 9 MAY 73 0830 MDT
 151 000. 71

STATION ELEVATION DATA
 12900.0071
 JALLEN

STATION COORDINATES
 3.16712 LAT DEG
 106.49311 LONG DEG

TABLE 11

PRESSURE	GEOPHYSIC	TEMPERATURE	REFLECTANCE
HILLIGARS	AT 111000	AIR DEWPOINT	PERCENT
FEET	FEET	DEGREES	
		CENTIGRADE	
87.5	4051.0	14.1	19.0
87.3	4215.7	13.8	22.0
86.6	4621.2	13.0	40.0
85.6	4890.7	12.6	4.0
837.4	5311.3	14.4	21.0
772.9	7165.1	11.2	21.0
700.0	10186.7	2.9	31.0
625.5	13140.2	-4.3	22.0
607.9	13080.5	-3.4	16.0
565.3	15757.7	-6.4	15.0
500.0	16070.5	-13.4	17.0
476.1	20093.5	-14.6	25.0
427.7	22724.1	-22.5	54.0
405.5	24005.1	-26.0	79.0
400.0	24328.1	-26.6	70.0
394.1	24680.9	-27.1	51.0
379.9	25550.0	-27.5	29.0
372.0	25991.3	-27.2	22.0
360.0	31060.7	-35.1	21.0
273.7	33155.9	-39.0	22.0
250.0	35170.3	-44.3	
220.4	37064.1	-47.4	
200.0	40002.8	-54.6	
177.6	42472.9	-60.6	
163.4	44174.5	-62.7	
150.0	45019.4	-61.2	
124.4	49073.6	-65.0	
110.4	52125.5	-63.0	
106.6	52830.9	-61.7	
100.0	54144.3	-61.9	
89.6	56378.5	-63.4	
70.2	58938.5	-70.4	
73.8	60219.8	-71.3	
70.0	61253.5	-70.6	
62.6	63461.2	-63.4	
55.3	66021.1	-59.4	
50.0	68103.9	-59.6	
30.0	78031.4	-52.9	
20.0	87599.7	-47.1	
10.7	91553.3	-47.0	

STATION ALTITUDE 4051.00 Feet MSL
 4 May 53 0830 MDT
 ASCENDING 110.

SIGHTING (Level) 0/10
 1240030071
 JALLFI

OPTIC COORDINATES
 53.10712 LAT DEG
 106.49511 LONG DEG

TABLE 11 Cont'd

PRESSURE GEOMETRIC ALTITUDE FEET MSL	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUMIDITY PERCENT
10.8 101259.5	-40.3	

STATION: ALBUQUERQUE, N.M. 100 FT MSL
 4 MAY 55 0830 MDT
 ASL 5110.0 71

UPPER AIR DATA
 120000071
 JALLFTH

GEODEIC COORDINATES
 33.10712 LAT 116
 106.49511 LONG DEG

TABLE 12

GEOMETRIC ALTITUDE (ASL) FEET	GEOMETRIC ALTITUDE (ASL) FEET	TEMPERATURE °F	DEW POINT °F	REL. HUMIDITY PERCENT	DENSITY GM/CM ³	SPEED OF SOUND M/SEC	WIND DIRECTION DEGREES (W)	WIND SPEED KNOTS	INDEX OF REFRACTION
4051.0	870.5	14.1	8.4	57.0	1060.1	661.2	40.0	4.1	1.000265
4500.0	362.0	13.2	-2.0	54.6	1040.0	660.0	41.4	1.9	1.000258
5000.0	300.0	13.0	-3.3	50.8	1028.7	659.0	210.4	.6	1.000251
5500.0	351.7	14.1	-7.9	21.0	1007.2	660.8	217.2	3.0	1.000240
6000.0	210.7	13.2	-6.0	21.0	992.1	659.7	220.1	5.4	1.000236
6500.0	802.0	12.3	-9.3	21.0	977.3	658.7	224.0	7.8	1.000232
7000.0	787.0	11.5	-10.6	21.0	962.0	657.7	226.1	9.4	1.000228
7500.0	775.0	10.3	-10.4	22.1	949.1	656.3	227.6	10.7	1.000225
8000.0	759.1	8.9	-10.7	23.8	936.2	654.7	232.0	10.5	1.000221
8500.0	745.1	7.5	-11.0	25.4	923.0	653.1	237.7	10.3	1.000218
9000.0	731.5	6.2	-11.4	27.1	911.1	651.5	247.0	10.4	1.000215
9500.0	710.0	4.8	-11.8	28.7	898.8	649.9	255.6	11.3	1.000212
10000.0	703.0	3.4	-12.3	30.4	886.7	648.3	262.2	13.0	1.000209
10500.0	691.7	2.1	-13.0	30.0	874.3	646.8	263.9	14.6	1.000205
11000.0	675.6	.9	-13.5	29.5	861.7	645.3	263.8	16.1	1.000201
11500.0	663.8	-1.3	-17.0	27.0	849.3	643.8	259.7	16.7	1.000197
12000.0	653.3	-1.5	-18.7	25.5	837.1	642.3	256.5	17.4	1.000194
12500.0	640.9	-2.7	-20.5	24.0	825.1	640.9	254.5	18.2	1.000190
13000.0	625.9	-4.0	-22.3	22.4	813.3	639.4	255.1	19.2	1.000187
13500.0	610.0	-3.9	-24.0	19.1	797.6	639.5	257.2	20.3	1.000182
14000.0	600.1	-3.6	-25.7	15.9	781.6	639.8	260.7	21.9	1.000178
14500.0	593.5	-4.4	-26.6	15.7	769.0	638.8	262.9	23.8	1.000175
15000.0	582.1	-5.2	-27.4	15.4	756.5	637.9	263.6	25.8	1.000172
15500.0	571.0	-6.6	-28.3	15.1	744.2	636.9	264.2	27.1	1.000169
16000.0	559.9	-6.9	-29.0	15.2	732.5	635.7	264.7	28.2	1.000166
16500.0	549.0	-8.1	-29.7	15.5	721.2	634.4	266.1	29.1	1.000163
17000.0	530.3	-9.2	-30.4	15.8	710.2	633.0	267.5	29.9	1.000161
17500.0	527.8	-10.3	-31.2	16.1	699.3	631.7	268.4	30.5	1.000158
18000.0	517.5	-11.4	-31.9	16.4	688.6	630.3	269.5	31.4	1.000156
18500.0	507.4	-12.6	-32.6	16.8	678.1	629.0	271.0	33.0	1.000153
19000.0	497.4	-13.5	-32.8	17.0	667.2	627.8	272.4	35.3	1.000151
19500.0	487.6	-14.0	-31.5	17.1	655.2	627.2	273.7	38.1	1.000148
20000.0	477.0	-14.5	-30.4	24.4	643.4	626.7	273.8	38.6	1.000146
20500.0	460.3	-15.8	-29.5	29.5	633.7	625.1	273.6	38.8	1.000144
21000.0	450.8	-17.3	-29.1	35.0	624.5	623.3	273.1	30.7	1.000142
21500.0	449.6	-18.8	-28.9	40.5	615.5	621.4	272.5	30.8	1.000140
22000.0	440.5	-20.3	-28.9	46.0	606.7	619.0	271.8	39.1	1.000138
22500.0	431.6	-21.8	-29.1	51.5	598.0	617.0	271.3	40.3	1.000136
23000.0	422.8	-23.3	-28.9	59.4	589.1	616.0	271.2	42.3	1.000135
23500.0	414.1	-24.6	-28.0	69.2	580.1	614.3	271.4	46.9	1.000133

GEODETIC COORDINATES
33.14712 LAT DEG
106.49511 LONG DEG

TEMP AIR DATA
1240030071
JALLFH

TABLE 12 Cont'd

STATION ALTITUDE 4561.0 FT MSL
4 MAY 63 0330 MDT
ASL 4561.0 MSL

GEOMETRIC ALTITUDE ASL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CELSIUS	REL. HUMIDITY PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND METERS PER SECOND	WIND DIRECTION DEGREES (TR)	WIND SPEED KNOTS	INDEX OF REFRACTION
24000.0	405.6	-20.0	78.0	571.3	312.6	271.7	52.9	1.000131
24500.0	397.1	-26.5	60.7	561.4	311.5	271.0	59.7	1.000128
25000.0	388.3	-27.2	42.9	550.7	311.0	270.1	67.0	1.000124
25500.0	380.7	-27.5	30.3	539.7	310.7	269.1	72.1	1.000121
26000.0	372.6	-27.2	22.0	527.9	311.0	268.3	76.3	1.000118
26500.0	364.9	-28.0	21.9	516.4	310.0	269.3	76.4	1.000116
27000.0	357.1	-28.8	21.8	509.0	309.1	270.6	76.2	1.000114
27500.0	349.6	-29.5	21.7	499.8	308.1	272.7	77.1	1.000112
28000.0	342.1	-30.3	21.6	490.8	307.1	274.4	79.0	1.000110
28500.0	334.9	-31.1	21.5	481.9	306.1	274.7	83.6	1.000108
29000.0	327.3	-31.9	21.4	473.2	305.2	274.3	89.4	1.000106
29500.0	320.8	-32.7	21.3	464.7	304.2	273.1	97.4	1.000104
30000.0	314.0	-33.4	21.2	456.3	303.2	271.9	104.2	1.000102
30500.0	307.4	-34.2	21.1	448.1	302.2	270.4	109.4	1.000100
31000.0	300.9	-35.0	21.0	440.1	301.2	269.0	113.7	1.000098
31500.0	294.3	-35.9	21.2	432.2	300.1	267.4	115.9	1.000097
32000.0	288.0	-36.8	21.4	424.5	299.9	265.9	118.4	1.000095
32500.0	281.7	-37.8	21.7	416.9	299.7	264.6	121.4	1.000093
33000.0	275.6	-38.7	21.9	409.5	299.5	263.4	124.3	1.000092
33500.0	269.5	-39.9	18.3**	402.5	299.0	262.6	125.8	1.000090
34000.0	263.5	-41.2	12.8**	395.0	298.3	261.9	127.3	1.000088
34500.0	257.7	-42.5	7.4**	389.3	298.0	261.7	126.4	1.000087
35000.0	252.0	-43.8	1.9**	382.8	298.9	261.5	125.2	1.000085
35500.0	246.4	-44.8		375.9	298.7	261.6	123.5	1.000084
36000.0	240.8	-45.7		368.7	298.0	261.8	121.5	1.000082
36500.0	235.4	-46.5		361.7	298.5	262.1	119.9	1.000081
37000.0	230.1	-47.3		354.9	298.5	262.4	118.6	1.000079
37500.0	224.8	-48.5		348.0	298.9	262.9	119.2	1.000078
38000.0	219.6	-49.8		342.4	299.3	263.6	122.2	1.000076
38500.0	214.5	-51.0		336.4	299.8	264.3	126.7	1.000075
39000.0	209.6	-52.3		330.6	299.0	265.0	133.1	1.000074
39500.0	204.7	-53.5		324.8	297.3	265.7	139.4	1.000072
40000.0	200.0	-54.8		319.1	295.7	266.5	145.4	1.000071
40500.0	195.3	-56.0		313.2	294.1	267.1	151.4	1.000070
41000.0	190.6	-57.1		307.4	292.6	267.6	157.0	1.000068
41500.0	186.1	-58.3		301.8	291.0	268.0	161.3	1.000067
42000.0	181.7	-59.5		296.2	289.5	268.2	162.1	1.000066
42500.0	177.4	-60.6		290.7	287.9	268.3	159.5	1.000065
43000.0	173.1	-61.5		284.5	287.1	268.3	146.9	1.000063
43500.0	168.9	-61.9		278.5	286.3	268.2	133.0	1.000062

** AT LAST ONE ASS MEAN RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 9651.00 FEET
 4 MAY 63 0830 MDT
 ASL: 51.00 71

INFL. AIR DATA
 1260030071
 JALLEN

GEODETIC COORDINATES
 33.16712 LAT NEG
 106.49511 LONG NEG

TABLE 12 Cont'd

GEOMETRIC ALTITUDE ASL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KNOTS	WIND DATA DIRECTION SPEED KNOTS	INDEX OF REFRACTION
44000.0	164.8	-62.5		272.5	565.0	268.0	1.000011
44500.0	160.8	-62.4		265.8	565.5	267.7	1.000059
45000.0	156.9	-62.0		258.9	566.1	266.8	1.000058
45500.0	153.1	-61.6		252.1	566.7	265.0	1.000056
46000.0	149.4	-61.3		245.7	567.0	265.2	1.000055
46500.0	145.8	-61.0		240.4	566.2	264.7	1.000054
47000.0	142.2	-62.5		235.2	565.4	265.1	1.000052
47500.0	138.8	-63.1		230.1	564.6	265.5	1.000051
48000.0	135.4	-63.7		225.2	563.8	266.0	1.000050
48500.0	132.1	-64.3		220.3	563.0	268.1	1.000049
49000.0	128.9	-64.9		215.6	562.2	269.9	1.000048
49500.0	125.7	-64.7		210.1	562.4	272.1	1.000047
50000.0	122.6	-64.4		204.7	562.9	273.7	1.000046
50500.0	119.6	-64.1		199.4	563.5	274.6	1.000044
51000.0	116.7	-63.7		194.2	563.8	275.7	1.000043
51500.0	113.9	-63.4		189.1	564.2	276.8	1.000042
52000.0	111.1	-63.1		184.2	564.6	278.3	1.000041
52500.0	108.4	-62.5		179.1	565.7	280.2	1.000040
53000.0	105.8	-61.7		174.3	566.5	281.6	1.000039
53500.0	103.2	-61.8		170.1	566.4	282.4	1.000038
54000.0	100.7	-61.0		166.1	566.3	282.4	1.000037
54500.0	98.3	-62.1		162.2	565.9	280.7	1.000036
55000.0	95.9	-62.5		158.5	565.5	278.9	1.000035
55500.0	93.6	-62.8		154.9	565.0	275.6	1.000035
56000.0	91.3	-63.1		151.4	564.6	272.7	1.000034
56500.0	89.1	-63.7		148.2	563.8	270.4	1.000033
57000.0	86.9	-65.2		145.5	561.8	268.4	1.000032
57500.0	84.7	-66.6		142.8	559.9	266.6	1.000032
58000.0	82.6	-68.0		140.3	558.0	266.2	1.000031
58500.0	80.6	-69.4		137.8	556.0	265.8	1.000031
59000.0	78.5	-70.5		135.0	554.6	266.1	1.000030
59500.0	76.6	-70.8		131.8	554.1	267.8	1.000029
60000.0	74.6	-71.2		128.7	553.7	269.8	1.000029
60500.0	72.4	-71.1		125.4	553.8	273.1	1.000028
61000.0	70.9	-70.8		122.1	554.2	277.4	1.000027
61500.0	69.1	-69.8		118.4	553.5	281.0	1.000026
62000.0	67.4	-68.2		114.8	557.7	285.5	1.000026
62500.0	65.8	-66.6		110.9	559.9	289.3	1.000025
63000.0	64.1	-65.0		107.3	562.1	290.3	1.000024
63500.0	62.5	-63.4		103.9	564.3	291.0	1.000023

STATION ALTITUDE 451.00 FEET SL
4 MAY 65 0830 MDT
WINDSPEED 10.0

OFFICE AIR DATA
1240030071
JALLER

OFFICE ILC COORDINATES
33.12712 LAT DEG
106.49511 LONG DEG

TABLE 12 Cont'd

GEOMETRIC ALTITUDE (FEET)	PRESSURE	TEMPERATURE (°C)	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED KNOTS	WIND DIRECTION (DEGREES (TN))	SPEED KNOTS	INDEX OF REFRACTION
64000.0	61.0	-62.6		101.0	565.3	289.1	25.7	1.000022
64500.0	59.6	-61.8		96.2	560.4	285.6	23.4	1.000022
65000.0	58.1	-61.0		95.5	567.4	284.1	19.9	1.000021
65500.0	56.7	-60.2		92.8	563.5	284.4	15.4	1.000021
66000.0	55.0	-59.4		90.2	569.5	285.6	10.9	1.000020
66500.0	53.3	-58.4		88.1	569.5	302.8	6.8	1.000020
67000.0	52.7	-59.5		86.0	569.4	347.4	4.5	1.000019
67500.0	51.5	-59.5		84.0	569.4	36.3	6.8	1.000019
68000.0	50.3	-59.6		82.0	569.5	53.6	11.4	1.000018
68500.0	49.1	-59.4		79.9	569.6	60.2	15.9	1.000018
69000.0	47.9	-59.0		76.0	570.1	62.4	17.9	1.000017
69500.0	46.8	-58.7		76.0	570.5	64.1	20.0	1.000017
70000.0	45.7	-58.4		74.1	570.4	62.4	17.0	1.000016
70500.0	44.6	-58.1		72.5	571.5	56.5	11.7	1.000016
71000.0	43.6	-57.8		70.5	571.7	40.7	6.6	1.000016
71500.0	42.5	-57.5		68.7	572.1	36.7	4.0	1.000015
72000.0	41.5	-57.2		67.0	572.5	280.8	8.9	1.000015
72500.0	40.6	-56.9		65.3	573.0	271.7	14.8	1.000015
73000.0	39.6	-56.5		63.7	573.4	268.9	20.6	1.000014
73500.0	38.7	-56.2		62.1	573.8	267.3	26.5	1.000014
74000.0	37.8	-55.9		60.6	574.2	267.1	29.1	1.000013
74500.0	36.9	-55.6		59.0	574.6	267.1	31.6	1.000013
75000.0	36.0	-55.3		57.6	575.0	267.0	31.7	1.000013
75500.0	35.2	-55.0		56.1	575.4	266.6	27.0	1.000013
76000.0	34.3	-54.7		54.7	575.8	266.7	24.2	1.000012
76500.0	33.5	-54.4		53.4	576.3	266.0	18.4	1.000012
77000.0	32.7	-54.0		52.0	576.7	264.5	12.2	1.000012
77500.0	32.0	-53.7		50.7	577.1	260.7	6.6	1.000011
78000.0	31.2	-53.4		49.5	577.5	250.2	2.9	1.000011
78500.0	30.5	-53.1		48.3	577.9	129.7	1.4	1.000011
79000.0	29.8	-52.8		47.1	578.3	102.3	3.8	1.000010
79500.0	29.1	-52.5		45.9	578.7	97.5	5.6	1.000010
80000.0	28.4	-52.1		44.8	579.2	95.0	7.5	1.000010
80500.0	27.8	-51.8		43.7	579.6	93.7	8.4	1.000010
81000.0	27.1	-51.5		42.6	580.0	92.7	8.8	1.000009
81500.0	26.5	-51.3		41.6	580.5	91.8	9.2	1.000009
82000.0	25.9	-50.8		40.6	580.9	88.0	6.7	1.000009
82500.0	25.3	-50.5		39.6	581.3	63.2	2.3	1.000009
83000.0	24.7	-50.1		38.6	581.8	504.6	3.2	1.000008
83500.0	24.2	-49.8		37.7	582.2	293.5	8.0	1.000008

STATION ALTITUDE 451.00 FT MSL
4 MAY 75 0830 MDT
ASCENDING NO. 71

UNDEP AIR DATA
1240030074
JALLFI

GEODETIC COORDINATES
33.10712 LAT 116.6
106.49511 LONG 116.6

TABLE 12 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TH)	SPEED KNOTS	TOTAL OR FRACTION
84000.0	23.6	-49.5		30.8	582.0	292.4	13.0	1.000004
84500.0	23.1	-49.2		30.9	583.1	292.0	18.1	1.000004
85000.0	22.6	-48.8		30.9	583.5	294.7	19.6	1.000004
85500.0	22.3	-48.5		34.2	583.4	300.1	10.5	1.000004
86000.0	21.5	-48.2		33.3	584.4	300.1	17.6	1.000007
86500.0	21.0	-47.8		32.5	584.8	316.2	14.4	1.000007
87000.0	20.6	-47.5		31.7	585.2	300.2	10.4	1.000007
87500.0	20.1	-47.2		31.0	585.6	14.0	9.2	1.000007
88000.0	19.6	-47.1		30.3	585.7	39.0	9.7	1.000007
88500.0	19.2	-47.1		29.6	585.8	55.4	10.1	1.000007
89000.0	18.8	-47.1		28.9	585.6	69.6	11.3	1.000006
89500.0	18.3	-47.1		28.3	585.8	70.4	9.1	1.000006
90000.0	17.9	-47.0		27.6	585.8	83.8	3.4	1.000006
90500.0	17.5	-47.0		27.0	585.8	255.2	2.4	1.000006
91000.0	17.1	-47.0		26.4	585.8	247.1	7.8	1.000006
91500.0	16.7	-47.0		25.8	585.9	249.9	12.3	1.000006
92000.0	16.4	-46.7		25.2	586.3	251.1	16.9	1.000006
92500.0	16.0	-46.3		24.6	586.7	251.6	21.4	1.000005
93000.0	15.6	-46.0		24.0	587.2	251.6	24.0	1.000005
93500.0	15.3	-45.7		23.4	587.6	251.0	24.3	1.000005
94000.0	15.0	-45.3		22.9	588.0	250.2	24.6	1.000005
94500.0	14.6	-45.0		22.3	588.5	249.4	24.8	1.000005
95000.0	14.3	-44.6		21.8	588.9	250.7	25.1	1.000005
95500.0	14.0	-44.3		21.3	589.4	252.8	25.3	1.000005
96000.0	13.7	-43.9		20.8	589.8	254.8	25.5	1.000005
96500.0	13.4	-43.6		20.3	590.3	256.9	25.8	1.000005
97000.0	13.1	-43.2		19.8	590.7	259.1	26.7	1.000004
97500.0	12.8	-42.9		19.3	591.7	261.3	27.6	1.000004
98000.0	12.5	-42.5		18.9	591.6	263.3	28.6	1.000004
98500.0	12.2	-42.2		18.4	592.0			1.000004
99000.0	12.0	-41.9		18.0	592.5			1.000004
99500.0	11.7	-41.5		17.6	592.9			1.000004
100000.0	11.4	-41.2		17.2	593.4			1.000004
100500.0	11.2	-40.8		16.8	593.8			1.000004
101000.0	10.9	-40.5		16.4	594.2			1.000004

STATION ALTITUDE 4 51.0 FLEET 15L
4 MAY 63 0830 MDT
ASCE 751 0100. 71

CAVENDISH ISLANDS
1240030071
JALLFM

GEODETIC COORDINATES
13.1712 LAT DEG
106.49311 LONG DEG

TABLE 13

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FLEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
95.0	4805.	12.6	-2.6	34.	168.4	.1	
90.0	6567.	12.2	-9.4	21.	224.3	6.1	
75.0	6328.	8.0	-10.9	25.	235.0	10.4	
700.0	10177.	2.0	-12.5	31.	264.0	15.6	
650.0	12128.	-1.0	-19.2	25.	255.9	17.6	
600.0	14214.	-3.0	-26.1	10.	262.0	22.6	
550.0	16941.	-8.0	-29.7	15.	265.9	29.0	
500.0	18845.	-13.4	-33.2	17.	272.1	34.5	
450.0	21456.	-18.8	-28.9	40.	272.6	36.7	
400.0	24289.	-26.6	-30.4	70.	271.4	57.1	
350.0	27429.	-20.5	-44.4	22.	272.6	77.0	
300.0	31067.	-35.1	-49.6	21.	268.8	114.0	
250.0	35104.	-44.3			261.5	124.8	
200.0	39909.	-54.8			266.4	143.3	
175.0	42669.	-61.0			268.3	153.1	
150.0	45799.	-61.2			265.4	105.3	
125.0	49474.	-64.6			272.6	62.4	
100.0	53931.	-61.9			282.0	56.2	
80.0	58451.	-63.8			265.7	75.0	
70.0	61048.	-70.6			279.7	43.1	
60.0	64119.	-62.0			287.1	24.2	
50.0	67053.	-59.6			55.1	12.1	
40.0	72463.	-56.7			270.2	17.3	
30.0	76500.	-52.9			105.8	5.1	
25.0	82332.	-50.3			3.6	1.4	
20.0	87105.	-47.1			18.6	9.3	
15.0	93455.	-45.3			250.4	24.5	

** AT LAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

