AD-A067 676 ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/G 4/2
19702A GSRS MISSILE NUMBER 10, ROUND NUMBER B-1 (6 FEBRUARY 197--ETC(U)
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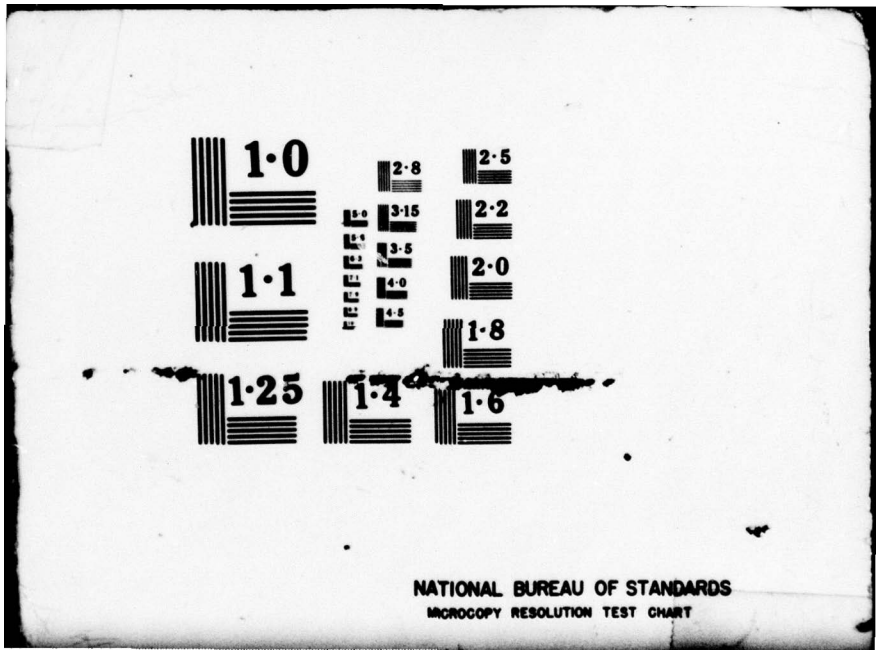
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MICROCOPY RESOLUTION TEST CHART

DR-987
February 1979

AD

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LEVEL II

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METEOROLOGICAL DATA REPORT

19702A GSRS
Missile No. 10
Round No. B-1

(6 February 1979)

by

White Sands Meteorological Team

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

ECOM

UNITED STATES ARMY ELECTRONICS COMMAND

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REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
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1. Ballistics
2. Meteorology
3. Wind

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Meteorological data gathered for the launching of 19702A GSRS, Missile Number 10, Round Number B-1, are presented in tabular form.

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CONTENTS

		PAGE
INTRODUCTION		1
DISCUSSION		1
TABLES		
I.	Surface Observations Taken at LC-33	2
II.	Pilot-Balloon Measured Wind Data, Release No. 1 at 1350 Hrs MST	3
III.	Pilot-Balloon Measured Wind Data, Release No. 2 at 1403 Hrs MST	4
IV.	Anemometer Measured Wind Speed and Direction, Pole No. 1 at 1403 Hrs MST	5
V.	Anemometer Measured Wind Speed and Direction, Pole No. 2 at 1403 Hrs MST	6
VI.	Anemometer Measured Wind Speed and Direction, Pole No.3 at 1403 Hrs MST	7
VII.	Anemometer Measured Wind Speed and Direction, Level No. 1 at 1403 Hrs MST	8
VIII.	Anemometer Measured Wind Speed and Direction, Level No. 2 at 1403 Hrs MST	9
IX.	Anemometer Measured Wind Speed and Direction, Level No. 3 at 1403 Hrs MST	10
X.	Anemometer Measured Wind Speed and Direction, Level No. 4 at 1403 Hrs MST	11
	Significant Level Data	12
	Upper Air Data	13, 14
	Mandatory Levels	15
	MRN Mandatory Levels	16

INTRODUCTION

(FG) 19702 GSRS, Missile Number 10, Round Number B-1, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1403 MST, 6 February 1979. The scheduled launch time was 1400 MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Meteorological Support Division, Atmospheric Sciences Laboratory, 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 (°C), relative humidity, dew point (°C), density (gm/m^3), wind direction, wind velocity and cloud cover were made at the LC-33 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole mounted and tower mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

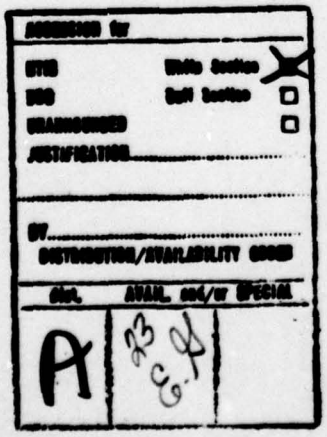
b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibals observation at T-0 minutes as follows:

SITE AND ALTITUDE

LC-33 1 KM (50 meter increments)

(2) Air structure data (rawinsonde) were collected at the WSD Met Site at T-0 minutes. Data were collected from surface to 125% apogee in 100-meter increments.



PILOT BALLON MEASURED WIND DATA

HEIGHT METERS	DIRECTION DEGREES	SPEED MPH
SUR	M	M
50	C	C
100	C	C
150	355	08
200	354	15
250	356	15
300	337	13
350	349	15
400	350	14
450	343	13
500	333	13

HEIGHT METERS	DIRECTION DEGREES	SPEED MPH
550	330	12
600	317	14
650	328	15
700	312	15
750	327	13
800	322	14
850	337	15
900	346	17
950	347	18
1000	346	18
1050	334	16

TABLE II

RELEASED FROM LC-33 DATE 6 February 1979 TIME 1350 LST

RELEASE POINT COORDINATES (WSTM) X= 486,037.24 Y= 182,350.16 H= 3,977.30

PILOT BALLON MEASURED WIND DATA

HEIGHT METERS	DIRECTION DEGREES	SPEED MPH
SUR	350	10
50	M	M
100	018	1.5
150	358	12.5
200	354	14.5
250	001	14.0
300	357	11.5
350	346	13.0
400	351	12.0
450	341	8.5
500	339	8.0

HEIGHT METERS	DIRECTION DEGREES	SPEED MPH
550	338	9.0
600	320	10.5
650	336	10.5
700	001	16.0
750	360	16.5
800	352	18.0
850	355	16.5
900	360	16.5
950	247	11.0
1000	309	10.5
1050	300	13.0

TABLE III

RELEASED FROM LC-33 DATE 6 February 1979 TIME 1403 LST

RELEASE POINT COORDINATES (WSTM) X= 486,037.24 Y= 182,350.16 H= 3,977.30

ANEMOMETER MEASURED WINDS

T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-600.0	360	14.0	-270.0	020	13.0	-001.0	340	12.0
-570.0	002	14.0	-240.0	054	18.0	-000.5	355	12.0
-540.0	353	12.0	-210.0	002	19.0	-000.0	360	12.0
-510.0	003	12.0	-180.0	353	16.0	+000.5	348	12.0
-480.0	020	15.0	-150.0	335	16.0	+001.0	332	12.0
-450.0	360	12.0	-120.0	345	18.0	+001.5	329	12.0
-420.0	360	11.0	-090.0	348	18.0	+002.0	329	12.0
-390.0	002	13.0	-060.0	005	12.0	+030.0	015	14.0
-360.0	011	14.0	-030.0	005	14.0	+060.0	014	10.0
-330.0	033	8.0	-002.0	340	11.0	+090.0	360	10.0
-300.0	042	9.0	-001.5	338	11.0	+120.0	005	11.0

TABLE IV POLE 1

LAUNCHED FROM LC-33 DATE 06 Feb 79 TIME 1403 LST

TYPE GSRS (FG)19702 MISSILE NO. 10 ROUND NO. B-1

WSTM COORDINATES X 485,874.29 Y 185,958.90 H 4,018.74 (VANE)

ANEMOMETER MEASURED WINDS

T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-600.0	003	13.5	-270.0	005	14.5	-001.0	003	10.0
-570.0	351	11.0	-240.0	061	14.0	-000.5	002	10.5
-540.0	003	11.5	-210.0	032	14.0	-000.0	360	10.5
-510.0	033	12.0	-180.0	343	11.0	+000.5	358	11.0
-480.0	015	10.0	-150.0	345	17.5	+001.0	357	11.0
-450.0	009	11.5	-120.0	343	M	+001.5	360	11.0
-420.0	005	11.0	-090.0	357	M	+002.0	002	11.0
-390.0	007	10.0	-060.0	005	M	+030.0	027	12.0
-360.0	030	8.5	-030.0	360	13.5	+060.0	043	10.0
-330.0	040	8.5	-002.0	006	10.0	+090.0	007	9.5
-300.0	025	10.0	-001.5	006	10.0	+120.0	023	10.5

TABLE V POLE 2

LAUNCHED FROM LC-33 DATE 6 Feb 79 TIME 1403 LST

TYPE GSRS (FB) 19702 MISSILE NO. 10 ROUND NO. B

WSTM COORDINATES X 485,874.93 Y 186,012.00 H 4,033.57 (VANE)

ANEMOMETER MEASURED WINDS

T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-600.0	003	17.0	-270.0	030	16.0	-001.0	357	13.0
-570.0	007	18.5	-240.0	050	21.5	-000.5	357	13.0
-540.0	009	14.0	-210.0	342	22.0	-000.0	357	13.0
-510.0	007	15.5	-180.0	348	21.0	+000.5	357	13.0
-480.0	012	16.0	-150.0	348	19.0	+001.0	357	13.0
-450.0	002	11.5	-120.0	330	21.5	+001.5	356	13.0
-420.0	015	14.0	-090.0	351	19.0	+002.0	356	13.0
-390.0	020	16.0	-060.0	343	17.0	+030.0	023	15.5
-360.0	026	15.0	-030.0	009	16.5	+060.0	020	14.0
-330.0	021	11.5	-002.0	355	13.0	+090.0	017	17.5
-300.0	021	12.5	-001.5	356	13.0	+120.0	002	17.0

TABLE VI POLE 3

LAUNCHED FROM LC-33 DATE 6 Feb 79 TIME 1403 LST

TYPE GSRS (FG) 19702 MISSILE NO. 10 ROUND NO. B-1

WSTM COORDINATES X 485,877.29 Y 186,116.06 H 4,063.92 (VANE)

ANEMOMETER MEASURED WINDS

T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-600.0	005	13.0	-270.0	020	7.0	-001.0	015	11.0
-570.0	005	11.0	-240.0	020	6.0	-000.5	020	10.5
-540.0	005	10.0	-210.0	030	3.0	-000.0	020	10.5
-510.0	360	10.5	-180.0	025	8.5	+000.5	015	11.0
-480.0	035	11.0	-150.0	025	14.0	+001.0	015	11.0
-450.0	360	8.0	-120.0	360	12.0	+001.5	015	11.0
-420.0	015	9.5	-090.0	005	9.5	+002.0	015	10.5
-390.0	010	8.0	-060.0	010	13.0	+030.0	020	8.0
-360.0	360	12.0	-030.0	025	8.5	+060.0	015	11.5
-330.0	360	11.0	-002.0	015	11.0	+090.0	005	10.5
-300.0	005	9.0	-001.5	015	11.0	+120.0	005	14.0

TABLE VII LEVEL 1

LAUNCHED FROM LC-33 DATE 6 Feb 79 TIME 1403 LST

TYPE GSRS (FG) 19702 MISSILE NO. 10 ROUND NO. B-1

WSTM COORDINATES X 484,982.64 Y 185,957.73 H 3,983.00 BASE

ANEMOMETER MEASURED WINDS

T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-600.0	355	15.5	-270.0	023	7.0	-001.0	345	10.5
-570.0	006	12.0	-240.0	025	6.0	-000.5	345	10.5
-540.0	003	10.0	-210.0	330	3.0	-000.0	345	10.5
-510.0	355	13.0	-180.0	335	11.5	+000.5	345	11.0
-480.0	342	11.0	-150.0	330	17.5	+001.0	340	11.0
-450.0	020	12.5	-120.0	010	13.0	+001.5	340	11.0
-420.0	360	10.0	-090.0	005	12.0	+002.0	335	11.0
-390.0	355	10.0	-060.0	360	12.0	+030.0	335	12.0
-360.0	342	13.0	-030.0	340	11.0	+060.0	355	12.0
-330.0	360	12.0	-002.0	335	10.0	+090.0	345	12.0
-300.0	012	9.0	-001.5	340	10.0	+120.0	360	14.5

TABLE VIII LEVEL 2

LAUNCHED FROM LC-33 DATE 6 Feb 79 TIME 1403 LST

TYPE GSRS (FB) 19702 MISSILE NO. 10 ROUND NO. B-1

WSTM COORDINATES X 484,982.64 Y 185,957.73 H 3983.00 BASE

ANEMOMETER MEASURED WINDS

T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-600.0	360	15.0	-270.0	015	7.5	-001.0	348	11.0
-570.0	360	13.5	-240.0	023	4.0	-000.5	348	11.0
-540.0	360	9.0	-210.0	345	3.0	-000.0	348	11.0
-510.0	002	12.0	-180.0	330	13.5	+000.5	348	11.0
-480.0	038	12.0	-150.0	345	16.0	+001.0	348	11.0
-450.0	015	11.0	-120.0	360	15.0	+001.5	348	11.0
-420.0	360	10.0	-090.0	360	14.0	+002.0	348	10.0
-390.0	008	10.5	-060.0	360	12.0	+030.0	342	12.0
-360.0	006	12.0	-030.0	339	10.5	+060.0	345	12.0
-330.0	008	11.0	-002.0	348	11.0	+090.0	012	12.0
-300.0	012	8.5	-001.5	348	11.0	+120.0	360	15.5

TABLE IX LEVEL 3

LAUNCHED FROM LC-33 DATE 6 Feb 79 TIME 1403 LST

TYPE GSRS (FG) 19702 MISSILE NO. 10 ROUND NO. B-1

WSTM COORDINATES X 484,982.64 Y 185,957.73 H 3,983.00 BASE

ANEMOMETER MEASURED WINDS

T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-600.0	348	M	-270.0	360	7.5	-001.0	019	14.0
-570.0	345	M	-240.0	015	6.0	-000.5	019	14.0
-540.0	348	M	-210.0	030	4.0	-000.0	020	14.0
-510.0	345	M	-180.0	033	16.0	+000.5	021	14.0
-480.0	357	M	-150.0	025	17.0	+001.0	021	14.0
-450.0	358	M	-120.0	009	16.0	+001.5	021	14.0
-420.0	348	M	-090.0	006	15.0	+002.0	021	14.0
-390.0	360	13.5	-060.0	020	14.0	+030.0	020	14.0
-360.0	003	14.5	-030.0	032	12.0	+060.0	020	13.0
-330.0	013	13.0	-002.0	018	14.0	+090.0	008	16.0
-300.0	028	10.0	-001.5	018	14.0	+120.0	005	15.0

TABLE X LEVEL 4

LAUNCHED FROM LC-33 DATE 6 Feb 79 TIME 1403 LST

TYPE GSRS (FG) 19702 MISSILE NO. 10 ROUND NO. B-1

WSTM COORDINATES X 484,982.64 Y 185,957.73 H 3,983.00 BASE

STATION ALTITUDE 3989.00 FEET MSL
6 FEB. 79 1400 HRS MST
ASCENSION NO. 73

SIGNIFICANT LEVEL DATA
0370020073
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT
875.4	3989.0	9.1	-4.1	39.0
850.0	4785.2	5.8	-5.8	43.0
784.2	6925.2	-.8	-9.6	51.0
700.0	9872.4	-6.8	-17.0	44.0
635.0	12349.8	-11.7	-19.1	54.0
624.6	12765.2	-12.5	-16.8	70.0
592.0	14105.6	-14.8	-19.5	67.0
583.0	14486.3	-15.5	-28.4	32.0
567.2	15168.3	-15.4	-30.9	25.0
527.2	16974.1	-18.2	-32.2	28.0
500.0	18207.7	-21.1	-34.0	30.0
473.8	19505.4	-24.7	-33.6	43.0
400.0	23530.3	-35.6	-46.6	31.0
357.4	26070.0	-42.7	-52.4	33.0

STATION ALTITUDE 3989.00 FEET MSL
6 FEB. 79 1400 HRS MST
ASCENSION NO. 73

UPPER AIR DATA
0370020073
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
3989.0	875.4	9.1	-4.1	39.0	1078.4	655.1	360.0	2.9	1.000262
4000.0	875.0	9.1	-4.1	39.1	1078.1	655.1	359.6	3.0	1.000262
4500.0	859.0	7.0	-5.2	41.6	1066.3	652.6	348.3	4.9	1.000258
5000.0	843.2	5.1	-6.2	43.8	1053.6	650.5	343.6	7.0	1.000254
5500.0	827.4	3.6	-7.0	45.7	1039.8	648.6	341.0	9.1	1.000250
6000.0	812.0	2.1	-7.9	47.5	1026.3	646.8	339.4	11.2	1.000245
6500.0	796.9	.5	-8.8	49.4	1012.9	644.9	338.6	13.3	1.000242
7000.0	781.9	-1.0	-9.8	50.8	999.3	643.2	342.1	14.3	1.000237
7500.0	767.0	-2.0	-11.1	49.6	984.1	642.0	345.1	15.3	1.000233
8000.0	752.4	-3.0	-12.3	48.4	969.0	640.7	343.5	16.4	1.000228
8500.0	738.0	-4.0	-13.6	47.3	954.2	639.5	342.0	17.4	1.000224
9000.0	723.9	-5.0	-14.8	46.1	939.6	638.2	336.8	18.8	1.000220
9500.0	710.1	-6.0	-16.0	44.9	925.3	637.0	331.1	20.4	1.000215
10000.0	696.5	-7.1	-17.1	44.5	911.0	635.8	328.3	21.6	1.000212
10500.0	682.9	-8.0	-17.5	46.5	896.6	634.6	328.8	22.0	1.000208
11000.0	669.6	-9.0	-17.9	48.6	882.5	633.4	329.3	22.6	1.000205
11500.0	656.6	-10.0	-18.3	50.6	868.6	632.2	329.9	23.5	1.000201
12000.0	643.8	-11.0	-18.8	52.6	854.9	631.0	330.6	24.4	1.000198
12500.0	631.2	-12.0	-18.2	59.8	841.3	629.9	331.6	25.0	1.000195
13000.0	618.8	-12.9	-17.3	69.5	827.5	628.8	332.6	25.5	1.000193
13500.0	606.5	-13.8	-18.3	68.4	813.8	627.7	333.6	26.7	1.000189
14000.0	594.5	-14.6	-19.3	67.2	800.4	626.7	334.5	28.0	1.000186
14500.0	582.7	-15.5	-28.4	31.9	787.5	625.5	335.1	30.8	1.000179
15000.0	571.1	-15.4	-30.2	26.7	771.6	625.5	335.6	33.6	1.000175
15500.0	559.6	-15.9	-31.1	25.6	757.7	624.9	335.2	36.0	1.000171
16000.0	548.4	-16.7	-31.5	26.4	744.7	624.0	334.5	37.7	1.000168
16500.0	537.4	-17.5	-31.8	27.2	732.0	623.0	332.5	37.4	1.000165
17000.0	526.6	-18.3	-32.2	28.0	719.6	622.1	330.9	37.2	1.000163
17500.0	516.0	-19.4	-32.9	28.8	708.1	620.7	330.0	37.1	1.000160
18000.0	505.5	-20.5	-33.6	29.6	696.8	619.3	329.2	36.9	1.000157
18500.0	495.2	-21.7	-33.8	32.3	686.0	617.8	328.3	38.1	1.000155
19000.0	485.0	-23.1	-33.6	37.3	675.7	616.1	327.5	39.3	1.000153
19500.0	475.1	-24.5	-33.6	42.3	665.5	614.4	326.9	40.1	1.000150
20000.0	465.1	-25.9	-35.0	41.7	655.1	612.7	326.4	40.8	1.000148
20500.0	455.3	-27.3	-36.6	40.2	644.9	610.9	326.2	41.4	1.000145
21000.0	445.6	-28.6	-38.3	38.7	634.8	609.2	327.0	42.1	1.000143
21500.0	436.2	-30.0	-39.9	37.1	624.9	607.5	327.7	42.9	1.000140
22000.0	427.0	-31.4	-41.5	35.6	615.2	605.8	327.4	44.3	1.000138
22500.0	418.0	-32.8	-43.2	34.1	605.7	604.0	326.9	45.9	1.000136
23000.0	409.2	-34.1	-44.8	32.6	596.3	602.3	326.3	47.2	1.000134

STATION ALTITUDE 3989.00 FEET MSL
6 FEB. 79 1400 HRS MST
ASCENSION NO. 73

UPPER AIR DATA
0370020073
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
23500.0	400.5	-35.5	-46.5	31.1	587.1	600.6	325.8	48.2	1.000131
24000.0	391.8	-36.9	-47.7	31.4	577.7	598.8	325.2	48.9	1.000129
24500.0	383.2	-38.3	-48.8	31.8	568.4	597.0	324.5	48.2	1.000127
25000.0	374.8	-39.7	-50.0	32.2	559.2	595.2			1.000125
25500.0	366.5	-41.1	-51.1	32.6	550.3	593.5			1.000123
26000.0	358.5	-42.5	-52.3	32.9	541.5	591.7			1.000121

STATION ALTITUDE 3989.00 FEET MSL
6 FEB. 79 1400 HRS MST
ASCENSION NO. 73

MANDATORY LEVELS
0370020073
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

PRESSURE	GEOPOTENTIAL	TEMPERATURE		REL.HUM.	WIND DATA	
		AIR	DEWPOINT		DIRECTION	SPEED
MILLIBARS	FEET	DEGREES	CENTIGRADE	PERCENT	DEGREES(TN)	KNOTS
850.0	4782.	5.8	-5.8	43.	345.2	6.1
800.0	6395.	.8	-8.6	49.	338.5	12.9
750.0	8083.	-3.2	-12.5	48.	343.2	16.6
700.0	9863.	-6.8	-17.0	44.	328.1	21.5
650.0	11748.	-10.5	-18.5	52.	330.3	24.0
600.0	13755.	-14.2	-18.9	68.	334.1	27.4
550.0	15911.	-16.6	-31.4	26.	334.8	37.7
500.0	18243.	-21.1	-34.0	30.	328.7	37.5
450.0	20760.	-28.0	-37.5	39.	326.6	41.8
400.0	23492.	-35.6	-46.6	31.	325.8	48.2

STATION ALTITUDE 3989.00 FEET MSL
6 FEB. 79 1400 HRS MST
ASCENSION NO. 73

MRN MANDATORY LEVELS
0370020073
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	WIND DATA DIRECTION DEG (TN)	SPEED MPS	N-S MPS	E-W MPS	TEMPERATURE DEW PT DEP DEG C	AIR DEG C	PRESSURE MILLIBARS
716.	326.	25.	-21.	14.	11	-35.6	4.000+2
633.	327.	22.	-18.	12.	10	-28.0	4.500+2
556.	329.	19.	-16.	10.	13	-21.1	5.000+2
485.	335.	19.	-18.	8.	15	-16.6	5.500+2
419.	334.	14.	-13.	6.	05	-14.2	6.000+2
358.	330.	12.	-11.	6.	08	-10.5	6.500+2
301.	328.	11.	-9.	6.	10	-6.8	7.000+2
248.	343.	9.	-8.	2.	09	-3.2	7.500+2
195.	339.	7.	-6.	2.	09	.8	8.000+2
146.	345.	3.	-3.	1.	12	5.8	8.500+2