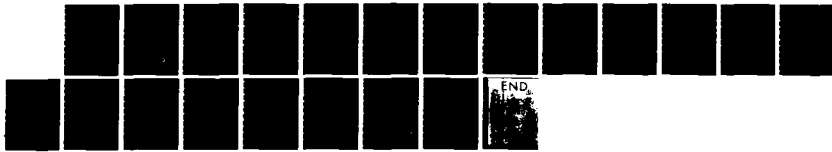
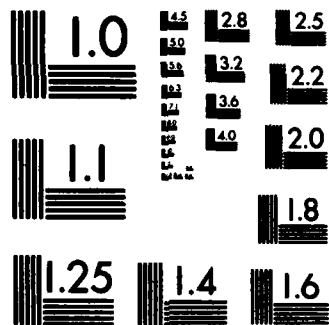


AD-A136 687 19318B MLRS MISSILE NUMBER V53-07 ROUND NUMBER 546/CH-3 1/1
7 DECEMBER 1983(U) ARMY ELECTRONICS RESEARCH AND
DEVELOPMENT COMMAND WSMR NM ATM. D C KELLER DEC 83
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MICROCOPY RESOLUTION TEST CHART
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METEOROLOGICAL DATA REPORT
19318B MLRS
Missile Number V53-07
Round Number 546/CH-3
7 December 1983

by

DONALD C. KELLER
Program Support Coordinator
Phone Number (505) 679-9568
AVN Number 349-9568

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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UNITED STATES ARMY ELECTRONICS COMMAND

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR-1331	2. GOVT ACCESSION NO. AD-A136687	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 19318B MLRS Missile Number V53-07 Round Number 546/CH-3	5. TYPE OF REPORT & PERIOD COVERED	
	6. PERFORMING ORG. REPORT NUMBER	
7. AUTHOR(s) White Sands Meteorological Team	8. CONTRACT OR GRANT NUMBER(s) DA Task 1F665702D127-02	
9. PERFORMING ORGANIZATION NAME AND ADDRESS	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS	
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Cmd Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico 88002	12. REPORT DATE 7 December 1983	
	13. NUMBER OF PAGES 19	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research and Development Cmd Adelphi, MD 20783	15. SECURITY CLASS. (of this report) UNCLASSIFIED	
	15a. DECLASSIFICATION/DOWNGRADING SCHEDULE	
16. DISTRIBUTION STATEMENT (of this Report) <div style="border: 1px solid black; padding: 5px; display: inline-block;">This document has been approved for public release and sale; its distribution is unlimited.</div>		
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18. SUPPLEMENTARY NOTES		
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 19318B MLRS, Missile Number V53-07, Round Number 546/CH-3 are presented in tabular form.		

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INTRODUCTION

19318B MLRS, Missile Number V53-07, Round Number 546/CH-3, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1500 MST, 7 December 1983. The scheduled launch time was 1500 MST.

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-33 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing tower-mounted anemometer 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 pibal observation at:

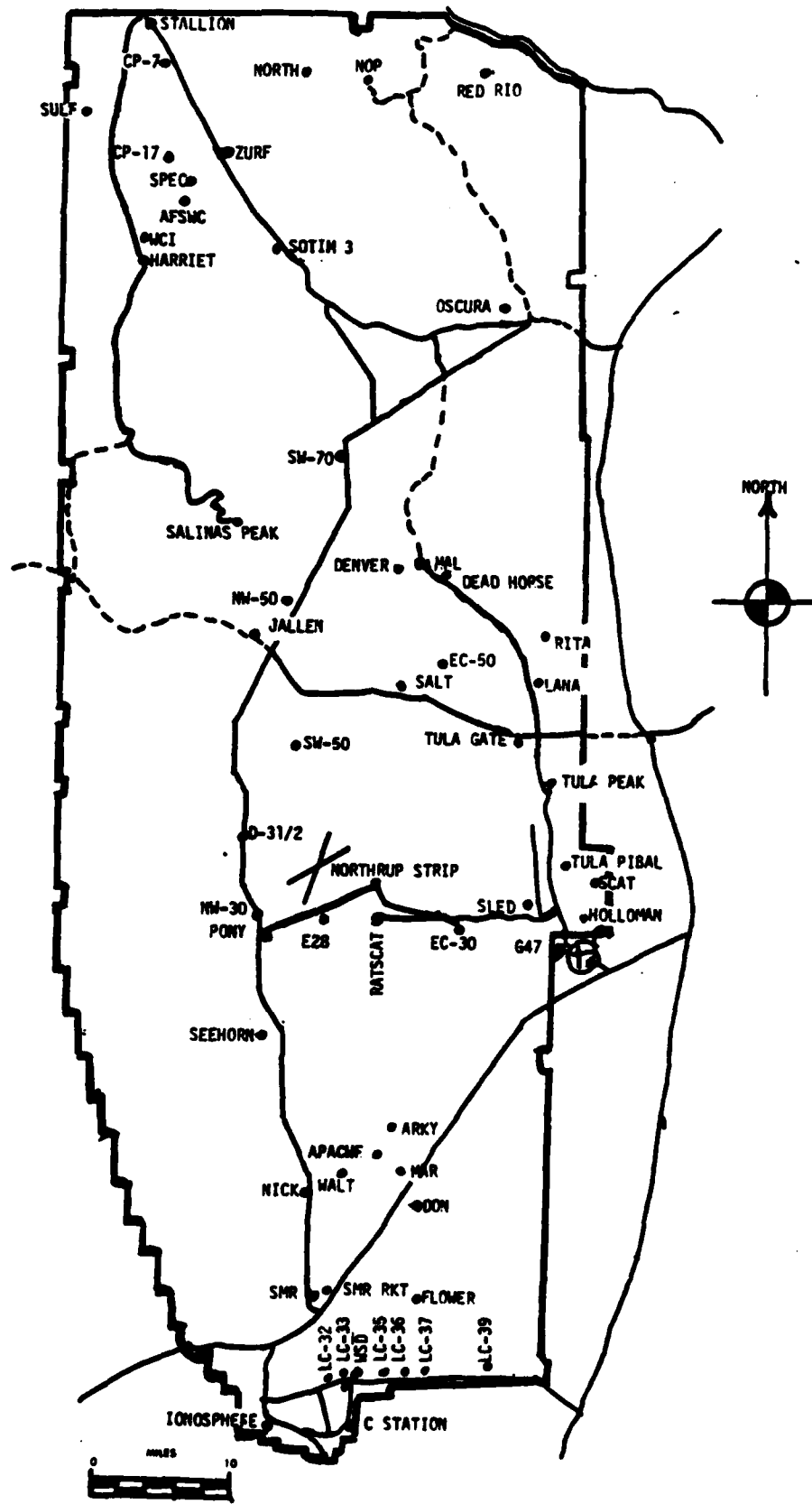
SITE AND ALTITUDE

LC-33	2 km
DON	2 km

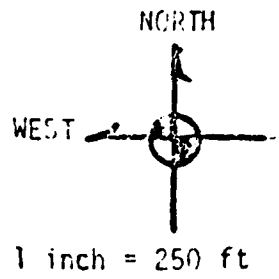
(2) Air structure data (rawinsonde) were collected at the following Met Sites.

<u>SITE AND TIME</u>	
WSD	1300 MST
LC-37	1400 MST
WSD	1500 MST

WSMR METEOROLOGICAL SITES



LC-33
Launch Area



Y186,500

LINE OF FIRE

Anemometer Pole #3

Anemometer Pole #2

MET
Tower

Y186,000

T-9 Radar

L-579A

L-519A

L-951A

L-350A

Anemometer Pole #1

Y185,500

X485,000

X485,500

X486,000

Y185,000

L-600

LC-33 METEOROLOGICAL TOWER
ANEMOMETER MEASURED WIND DATA

TABLE 2

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

DATE 7 Dec 83 1500 M S T
DAY MONTH YEAR TIME

LEVEL #1 12 FT AGL			LEVEL #2 62 FT AGL		
T-TIME (SEC)	DIR (DEG)	SPEED (KTS)	T-TIME (SEC)	DIR (DEG)	SPEED (KTS)
T-30	330	03	T-30	351	02
T-20	334	03	T-20	351	03
T-10	014	03	T-10	351	03
T- 0 (1st T)	015	03	T- 0 (1st T)	351	03
T+10	021	02	T+10	351	03
T+20	027	02	T+20	351	03
T+30	026	02	T+30	351	02
T+40	026	02	T+40	351	02
T+50	010	03	T+50	351	02
T+60	355	03	T+60	351	01
LEVEL #3 102 FT AGL			LEVEL #4 202 FT AGL		
T-TIME (SEC)	DIR (DEG)	SPEED (KTS)	T-TIME (SEC)	DIR (DEG)	SPEED (KTS)
T-30	357	02	T-30	026	03
T-20	313	02	T-20	357	03
T-10	360	02	T-10	354	03
T- 0 (1st T)	357	03	T- 0 (1st T)	350	03
T+10		CALM	T+10	347	02
T+20	333	01	T+20	347	02
T+30	333	02	T+30	344	02
T+40	326	01	T+40	344	01
T+50	325	01	T+50	345	01
T+60	327	01	T+60	340	02

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 07 December 1983

SITE: LC-33
 TIME: 1500 MST
 WSTM COORDINATES:
 X= 484,837.34
 Y= 184,122.44
 H= 3,975.57

SITE: DON
 TIME 1500 MST
 WSTM COORDINATES:
 X= 511,988.37
 Y= 247,396.36
 H= 3,996.83

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE		CALM
150		CALM
210		CALM
270	319	01
330	306	02
390	298	03
500	297	07
650	300	11
800	304	13
950	308	14
1150	322	15
1350	328	19
1550	319	22
1750	314	19
2000	319	24

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE		CALM
150	119	01
210	123	01
270	145	01
330	144	01
390	070	02
500	345	02
650	299	10
800	296	10
950	313	15
1150	325	20
1350	329	16
1550	315	20
1750	310	22
2000	310	26

Data obtained from a double
 Theodolite Tracked pilot-balloon
 observation.

Data obtained from a RAPTS T-9
 radar tracked pilot-balloon
 observation.

TABLE 4

AIMING AND T-TIME COMPUTER MET MESSAGE DATA

07 December 1983

WSD 1300 MST	LC-37 1400 MST	WSD 1500 MST
METCM1324064	METCM1324063	METCM1324064
072000122883	072100124880	072200122882
00053006 28870883	00107003 28680880	00000000 29050882
01084010 28590873	01116005 28650869	01024004 28800872
02621003 28360847	02541003 28450844	02608003 28500846
03516020 28340807	03525017 28380804	03535011 28350807
04540020 28230760	04563020 28180757	04574019 28190759
05549021 28000715	05564021 27850713	05562020 27850715
06552022 27610673	06544026 27480670	06564025 27510672
07545028 27300632	07537031 27220629	07536028 27250631
08534035 27050594	08530035 27070591	08529029 27090593
09515045 26830558	09519041 26830555	09516042 26860557

STATION ALTITUDE 3989.00 F-FET MSL
 7 DEC. 83 1300 HRS. MST
 ASCENSION NO. 613

SIGNIFICANT LEVELL DATA
 3410020613
 WHITE SANDS

GEOMETRIC COORDINATES
 32.40043 LAT DEG
 106.37033 LO., DEG

TABLE 5

PRESSURE GEO. ERIC MILLIBARS MSL FLEET	ALTITUDE	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
883.4	3989.0	14.5	22.0
877.0	4189.7	12.3	18.0
856.0	5046.2	10.3	20.0
828.2	5753.8	9.0	23.0
807.8	6433.4	10.4	24.0
728.1	9257.3	7.7	18.0
700.0	10317.3	5.2	20.0
661.1	11840.3	1.5	21.0
606.2	14118.4	-2.3	23.0
562.2	16070.4	-4.6	19.0
527.8	17701.9	-7.3	15.0
500.0	19000.0	-10.3	15.0

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GEOMETRIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG DEG

UPPER AIR DATA
 3410020613
 WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
 7 DEC. 83 1500 HRS MST
 ASCENSION NO. 013

TABLE 6

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	TEMPERATURE DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
3989.0	883.4	14.5	-6.9	22.0	1068.2	661.2	50.0	6.0	1.000255
4000.0	883.0	14.4	-7.2	21.8	1068.3	661.1	29.3	6.0	1.000254
4500.0	867.1	11.6	-11.4	18.7	1059.8	657.7	349.2	5.2	1.000248
5000.0	851.4	10.4	-11.0	19.9	1044.9	650.4	515.8	7.0	1.000245
5500.0	836.0	9.5	-11.2	21.9	1029.2	655.3	299.2	10.0	1.000242
6000.0	820.8	9.5	-10.4	23.4	1010.3	655.4	290.8	13.5	1.000238
6500.0	805.8	10.3	-9.4	23.9	988.9	656.4	290.2	17.6	1.000234
7000.0	791.1	9.9	-10.4	22.8	972.6	655.8	291.0	20.9	1.000230
7500.0	776.7	9.4	-11.4	21.7	956.5	655.2	297.8	20.3	1.000225
8000.0	762.6	8.9	-12.4	20.7	940.8	654.7	303.5	20.4	1.000221
8500.0	748.7	8.4	-13.4	19.6	925.2	654.1	307.4	21.5	1.000216
9000.0	735.0	7.9	-14.5	18.5	910.0	653.5	309.2	21.8	1.000212
9500.0	721.6	7.1	-15.5	18.5	896.0	652.5	309.4	21.6	1.000209
10000.0	708.3	5.9	-15.0	19.4	883.2	651.2	309.7	21.0	1.000206
10500.0	695.2	4.8	-16.2	20.1	870.7	649.8	310.2	19.9	1.000202
11000.0	682.3	3.5	-17.0	20.4	858.3	648.3	310.4	20.3	1.000199
11500.0	669.6	2.3	-17.8	20.8	846.1	646.9	310.2	22.7	1.000196
12000.0	657.1	1.2	-18.6	21.1	833.6	645.6	309.1	24.9	1.000193
12500.0	644.7	.4	-19.0	21.6	820.4	644.6	307.5	27.1	1.000190
13000.0	632.6	-0.4	-19.5	22.0	807.4	643.6	306.3	28.2	1.000186
13500.0	620.6	-1.3	-20.0	22.5	794.6	642.6	305.3	28.9	1.000183
14000.0	608.4	-2.1	-20.5	22.9	782.1	641.6	304.0	30.9	1.000180
14500.0	597.4	-2.7	-21.3	22.2	769.1	640.8	301.6	33.7	1.000177
15000.0	586.0	-3.3	-22.4	21.2	756.1	640.1	297.5	38.2	1.000174
15500.0	574.8	-3.9	-23.4	20.2	743.3	639.4	294.0	42.2	1.000170
16000.0	563.9	-4.5	-24.5	19.2	730.8	638.7	291.3	45.0	1.000167
16500.0	553.0	-5.3	-25.7	18.0	718.9	637.7	289.8	44.6	1.000164
17000.0	542.4	-6.1	-27.3	16.7	707.3	636.7	289.0	42.7	1.000161
17500.0	532.0	-7.0	-28.8	15.5	695.9	635.7	288.5	39.9	1.000158
18000.0	521.7	-7.9	-30.0	15.0	685.0	634.5	289.2	35.9	1.000155
18500.0	511.5	-9.0	-30.9	15.0	674.5	633.2			1.000153
19000.0	501.6	-10.1	-31.7	15.0	664.1	631.9			1.000150

STATION: ALTITUDE 3089.00 FEET SL
 / DEC. 83 1300 HRS MST
 ASCENSION ID. 013

MANDATORY LEVELS
 3410020613
 WHITE SANDS

GEODETIC COORDINATES
 32-40043 LAT DEG
 106-37033 LONG DEG

TABLE 7

PRESSURE (EQUENTIAL)		AIR TEMPERATURE	REL. HUM.	WIND DATA	
MILLIBARS	FEET	DEGREES CENTIGRADE	PERCENT	DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	5002.	10.3	20.	315.8	7.2
800.0	6603.	10.1	23.	290.1	19.2
750.0	8407.	8.5	20.	307.0	21.3
700.0	10307.	5.2	20.	310.0	20.3
650.0	12274.	.8	21.	308.1	26.2
600.0	14369.	-2.6	22.	303.0	32.7
550.0	16622.	-5.5	18.	289.5	44.5
500.0	19053.	-10.3	15.		

STATION ALTITUDE 4051.37 FEET (151
 7 DEC. 83
 ASCENSION NO. 1/H
 1400 HRS MST

SIGNIFICANT LEVEL DATA
 3410180176
 LC-37

GEOSETIC COORDINATES
 32.40175 LAT DEG
 106.31252 LONG DEG

TABLE 8

PRESSURE MILLIBARS	GEO. PIRC ALTITUDE M/L FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
870.8	4051.4	-7.0	24.0
871.6	4709.6	-9.8	19.0
857.0	4799.4	-10.9	20.0
820.2	5074.5	-10.2	23.0
809.9	6319.6	-9.0	24.0
780.5	7016.8	-9.9	23.0
770.0	7697.7	-11.9	22.0
759.7	8063.3	-12.9	20.0
709.0	10267.7	-15.1	23.0
654.3	12057.4	-18.7	23.0
645.1	12430.0	-19.0	22.0
605.0	14110.1	-23.2	19.0
596.0	14460.1	-22.3	19.0
564.4	15013.3	-26.4	16.0
547.1	16722.7	-27.3	16.0
500.0	19021.2	-30.3	15.0

STATION ALTITUDE 4651.37 FEET MSL
 7 DEC. 83 1400 HRS MST
 ASCENSION NO. 178

UPPER AIR DATA
 3410180170
 LC-37

GEODETIC COORDINATES
 32.40175 LAT DEG
 106.31232 LO. DEG

TABLE 9

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TN) DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
4051.4	879.8	13.1	24.0	1069.1	659.0	60.0	7.9	1.000255
4500.0	865.0	12.7	19.3	1053.5	659.1	345.0	2.4	1.000248
5000.0	850.0	11.2	20.0	1040.1	657.3	308.8	5.3	1.000244
5500.0	834.0	10.5	21.5	1023.6	656.6	299.4	8.8	1.000241
6000.0	819.4	10.0	23.1	1007.0	655.9	295.4	12.4	1.000238
6500.0	804.0	10.6	23.7	986.4	656.7	298.3	15.2	1.000234
7000.0	790.0	10.3	23.0	969.5	656.4	302.5	17.8	1.000230
7500.0	775.6	9.1	22.3	956.1	654.9	308.3	19.1	1.000225
8000.0	761.5	8.8	20.3	939.9	654.5	315.2	19.7	1.000220
8500.0	747.5	7.9	20.6	925.6	653.4	319.1	20.4	1.000217
9000.0	733.7	6.8	21.3	912.1	652.2	319.9	20.8	1.000213
9500.0	720.2	5.7	22.0	898.7	650.9	318.7	21.2	1.000210
10000.0	707.0	4.7	22.6	885.6	649.7	313.5	21.4	1.000207
10500.0	693.9	3.6	23.0	872.7	648.4	309.0	22.2	1.000203
11000.0	680.9	2.4	23.0	860.1	647.0	306.5	23.9	1.000200
11500.0	668.2	1.2	23.0	847.7	645.6	304.6	25.8	1.000197
12000.0	655.7	.0	23.0	835.5	644.2	304.6	28.0	1.000193
12500.0	643.4	-.0	21.9	820.0	644.1	304.4	30.0	1.000189
13000.0	631.2	-.9	21.0	807.2	643.0	303.6	30.8	1.000186
13500.0	619.5	-1.8	20.1	794.5	641.9	302.4	31.7	1.000183
14000.0	607.5	-2.7	19.2	782.1	640.9	300.6	32.8	1.000179
14500.0	596.0	-1.9	18.9	764.9	641.9	298.5	34.3	1.000176
15000.0	584.7	-2.8	17.9	752.8	640.8	296.2	36.3	1.000172
15500.0	573.5	-3.7	16.9	741.0	639.7	294.2	38.1	1.000169
16000.0	562.6	-4.5	16.0	729.3	638.7	292.5	39.7	1.000166
16500.0	551.8	-5.2	16.0	717.1	637.9	291.6	41.3	1.000163
17000.0	541.2	-6.1	15.9	705.6	636.7	290.9	43.0	1.000160
17500.0	530.7	-7.3	15.7	695.1	635.3	290.4	43.1	1.000158
18000.0	520.4	-8.4	15.4	684.6	633.9	289.6	43.0	1.000155
18500.0	510.3	-9.6	15.2	674.3	632.6			1.000153
19000.0	500.4	-10.8	15.0	664.2	631.2			1.000150

STATION ALTITUDE 4051.37 FT MSL
 7 DEC. 83
 ASCENSION NO. 178

MANDATORY LEVELS
 5410180176
 LC-37
 TABLE 10

GEODETIC COORDINATES
 32.40175 LAT DEG
 106.51252 LONG DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4906.	11.2	-10.9	20.	308.9	5.3
800.0	6650.	10.5	-9.4	24.	299.7	16.0
750.0	8404.	8.1	-15.2	20.	318.9	20.3
700.0	10258.	4.1	-15.1	23.	310.9	21.7
650.0	12218.	-0	-18.9	23.	304.6	29.0
600.0	14309.	-2.2	-22.7	19.	299.4	33.5
550.0	16565.	-5.3	-27.1	16.	291.5	41.6
500.0	18974.	-10.8	-32.3	15.		

STATION ALTITUDE 3389.00 FEET MSL
 7 DEC. 83 1500 HRG, MST
 ASCENSION NO. 014

SIGNIFICANT LEVELL DATA
 3410020014
 WHITE SANDS
 TABLE 11

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LOI DEG

PRES. QUNE MILLIBARS	GEO. ETRAC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREE CENTIGRADE	REL. HUM. PERCENT
882.3	3989.0	-5.8	21.0
868.0	4042.5	-7.9	22.0
858.0	5019.5	-8.1	24.0
827.4	5750.5	-8.7	26.0
807.6	6417.6	-7.4	28.0
744.2	8059.7	-11.2	24.0
700.0	10285.9	-15.0	24.0
667.7	11540.0	-10.7	25.0
661.4	11790.6	-10.9	24.0
610.9	13070.5	-19.9	25.0
593.1	14640.0	-21.9	20.0
550.5	16164.9	-21.0	26.0
500.0	19042.8	-27.5	24.0

STATION ALTITUDE 3989.00 FEET MSL
 / DEC. 83
 ASLNSION NO. 014
 1500 HRS, MST

UPPER AIR DATA
 3610020614
 WHITE SANDS

GEOPTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 12

GEOPTIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES, CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
3989.0	882.3	10.0	21.0	1059.0	663.7	0.0	0.0	1.000254
4000.0	882.0	10.5	21.0	1058.9	663.6	311.2	0.0	1.000254
4500.0	860.2	13.2	22.2	1052.4	659.7	311.2	1.5	1.000250
5000.0	830.6	11.9	23.9	1038.2	658.2	311.2	3.0	1.000247
5500.0	833.2	10.6	25.3	1024.0	656.7	311.2	4.5	1.000243
6000.0	820.1	10.0	26.7	1007.2	650.1	303.4	7.5	1.000240
6500.0	803.2	10.2	27.8	988.3	650.3	301.5	10.9	1.000237
7000.0	790.5	9.7	26.9	972.2	655.7	307.5	14.2	1.000232
7500.0	770.1	9.1	25.9	956.4	653.0	313.3	16.8	1.000227
8000.0	762.0	8.6	24.9	940.8	654.4	320.5	18.6	1.000223
8500.0	743.1	8.0	24.0	925.7	653.7	323.0	19.5	1.000219
9000.0	734.3	6.8	24.0	912.6	652.2	323.2	19.8	1.000215
9500.0	720.8	5.6	24.0	899.0	650.8	320.9	20.2	1.000211
10000.0	707.3	4.4	24.0	887.1	649.4	317.4	20.6	1.000207
10500.0	694.4	3.3	24.2	874.3	648.0	316.6	22.5	1.000204
11000.0	681.4	2.2	24.6	861.2	646.8	316.9	25.1	1.000201
11500.0	660.7	1.2	25.0	848.4	645.6	315.2	26.5	1.000197
12000.0	650.1	1.0	24.1	833.0	645.3	311.9	26.9	1.000194
12500.0	643.8	0.0	24.3	820.2	644.2	307.1	26.3	1.000190
13000.0	631.6	-0.9	24.6	807.0	643.1	301.0	25.5	1.000187
13500.0	619.7	-1.9	24.8	795.2	641.9	298.6	26.9	1.000184
14000.0	606.0	-2.5	24.2	782.0	641.2	296.8	28.6	1.000181
14500.0	590.5	-2.1	21.0	766.1	641.6	295.7	30.4	1.000176
15000.0	583.1	-2.6	21.4	752.8	641.1	294.6	32.3	1.000173
15500.0	574.0	-3.3	23.4	740.6	640.1	294.0	34.4	1.000171
16000.0	563.1	-4.1	25.3	728.6	639.2	292.7	37.3	1.000168
16500.0	552.2	-5.1	25.8	717.2	638.0	291.6	40.2	1.000165
17000.0	541.5	-6.2	25.4	706.3	636.7	291.3	42.4	1.000163
17500.0	531.1	-7.3	25.1	695.5	635.4	290.9	43.0	1.000160
18000.0	520.8	-8.0	24.7	684.9	634.1	289.5	43.0	1.000157
18500.0	510.7	-9.5	24.4	674.5	632.7	289.5		1.000154
19000.0	500.0	-10.6	24.0	664.2	631.4			1.000152

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STATION ALTITUDE 3089.00 FEET ASL
 7 DEC. 65 1500 HRS MST
 ASCENSION NO. 014

MANITARY LEVELS
 3410020614
 WHITE SANDS

GEODETIC COORDINATES
 32.4004° LAT DEG
 106.37033 LO. DEG

TABLE 13

PRESSURE (LUPOTENTIAL)		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREE CENTIGRADE	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KIOTS	
850.0	5016.	11.8	-8.1	24.	311.2	5.1	
800.0	6670.	10.0	-7.9	27.	305.9	12.0	
750.0	8423.	8.1	-11.2	24.	325.0	19.5	
700.0	10276.	3.7	-15.0	24.	316.4	21.4	
650.0	12247.	.5	-17.6	24.	310.0	20.4	
600.0	14329.	-2.2	-21.0	22.	290.1	29.8	
550.0	16506.	-5.4	-21.9	20.	291.5	40.6	
500.0	19016.	-10.7	-27.3	24.			

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