

AD-A101 527

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/8 4/2
19304A MLRS, MISSILE NUMBER BK002, BN007, BN008 ROUND NUMBER V---ETC(U)
MAY 81 D C KELLER
ERADCOM/ASL-DR-1180

UNCLASSIFIED

NL

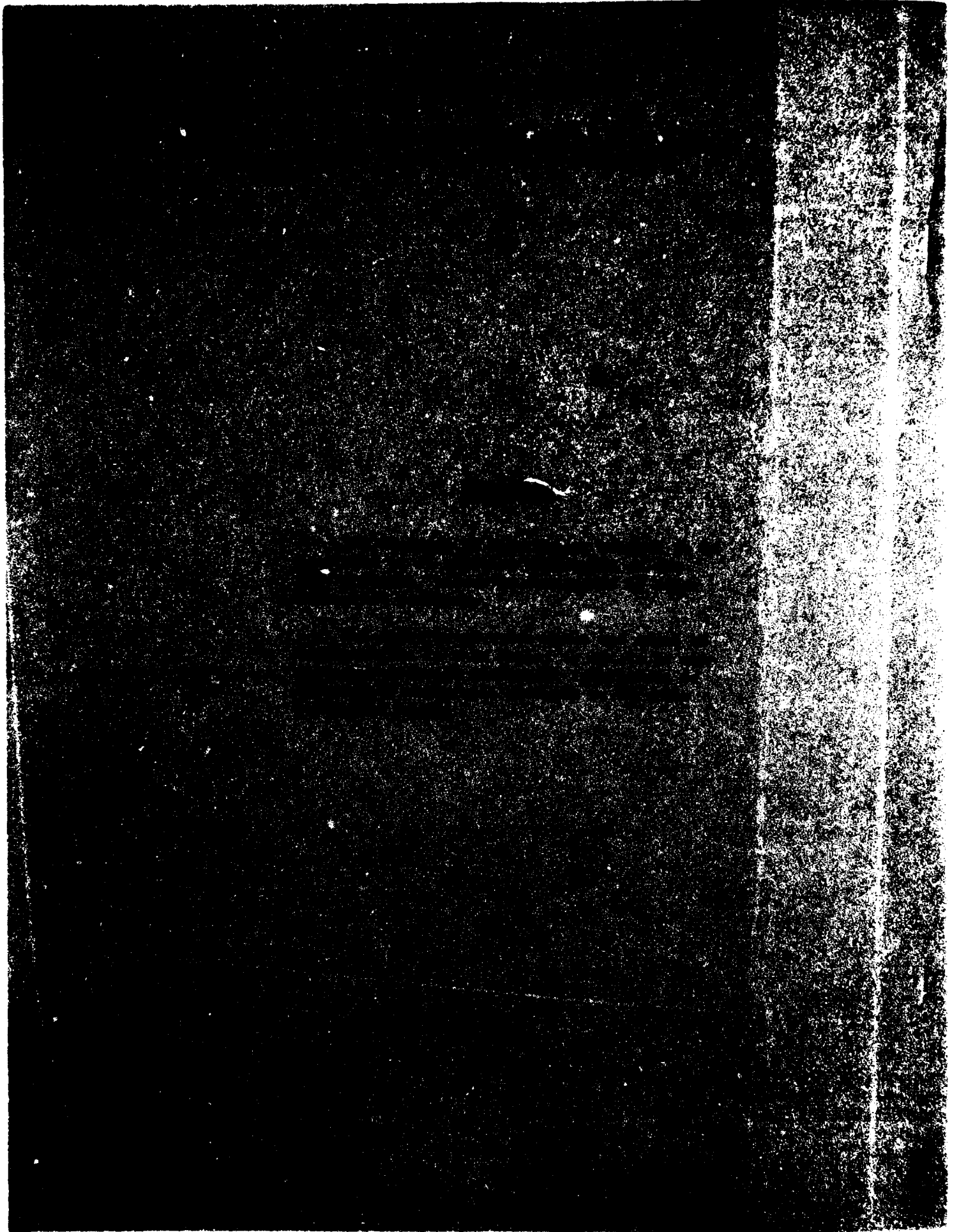
1 of 1
AD A
10-15-27

[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

END
DATE
FILMED
8-81
DTIC

AD A101527

SECRET



14 RHIC/WH/SL-DR-1180

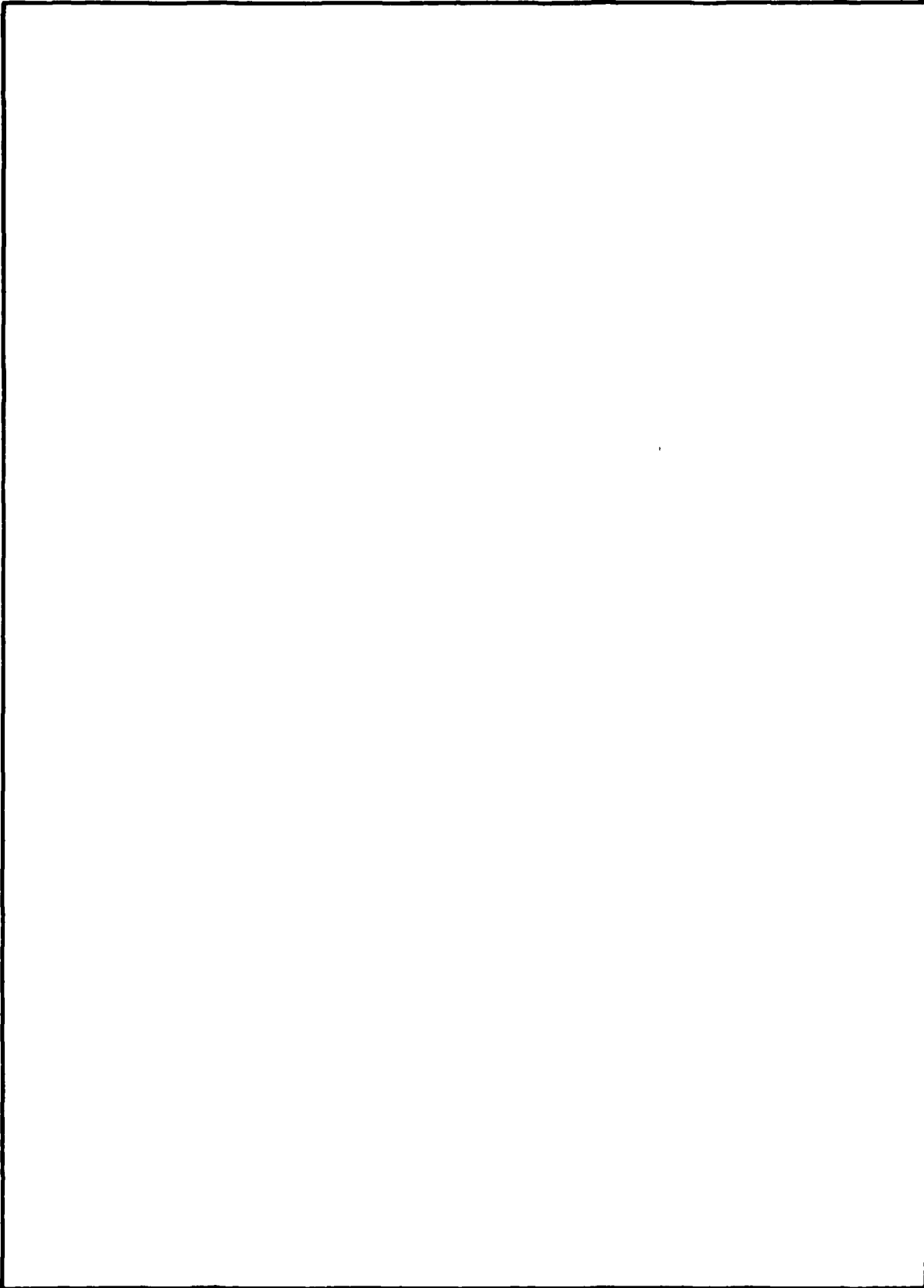
SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM	
1. REPORT NUMBER DR-1180	2. GOVT ACCESSION NO. AD-A101	3. RECIPIENT'S CATALOG NUMBER 527AD	
4. TITLE (and Subtitle) 19304A MLRS, Missile No. BK002, BN007, BN008 Round No. V-146/MD-13, V-147/MD-14, V-148/MD-15		5. TYPE OF REPORT & PERIOD COVERED	
7. AUTHOR(s) White Sands Meteorological Team		6. PERFORMING ORG. REPORT NUMBER 261100 2181	
9. PERFORMING ORGANIZATION NAME AND ADDRESS White Sands		8. CONTRACT OR GRANT NUMBER(s) DA Task 11F665702D127-02	
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Cmd Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico 88002		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS 11 12	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research & Development Cmd Adelphi, MD 20783		12. REPORT DATE May 1981	
		13. NUMBER OF PAGES 26	
		15. SECURITY CLASS. (of this report) UNCLASSIFIED	
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE	
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.			
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) Approved for public release; distribution unlimited.			
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 19304A MLRS, Missile No. BK002, BN007, BN008, Round No. V-146/MD-13, V-147/MD-14, V-148/MD-15 presented in tabular form.			

417663

117

SECURITY CLASSIFICATION OF THIS PAGE(When Data Entered)



SECURITY CLASSIFICATION OF THIS PAGE(When Data Entered)

CONTENTS

	PAGE
INTRODUCTION-----	1
DISCUSSION-----	1
MAP-----	2
TABLES:	
1. Surface Observations taken at 1511 MDT at LC-33-----	3
2. Anemometer-Measured Wind Speed and Direction, LC-33 Fixed Pole, taken at 1511 MDT-----	4
3. Anemometer-Measured Wind Speed and Direction, Tower Levels 1, 2, 3, and 4, taken at 1511 MDT-----	4
4. T-Time Pilot-Balloon Measured Wind Data-----	5
5. Aiming and T-Time Computer Met Messages-----	6
6. LC-37 Significant Level Data at 1100 MDT-----	7
7. LC-37 Upper Air Data at 1100 MDT-----	8
8. LC-37 Mandatory Levels at 1100 MDT-----	10
9. WSD Significant Level Data at 1200 MDT-----	11
10. WSD Upper Air Data at 1200 MDT-----	12
11. WSD Mandatory Levels at 1200 MDT-----	14
12. LC-37 Significant Level Data at 1300 MDT-----	15
13. LC-37 Upper Air Data at 1300 MDT-----	16
14. LC-37 Mandatory Levels at 1300 MDT-----	18
15. WSD Significant Level Data at 1511 MDT-----	19
16. WSD Upper Air Data at 1511 MDT-----	20
17. WSD Mandatory Levels at 1511 MDT-----	22

INTRODUCTION

19304A MLRS, Missile Numbers BK002, BN007, and BN008, Round Numbers V-146/MD-13, V-147/MD-14, and V-148/MD-15, were launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 1511:00, 1511:05, and 1511:10 MDT, 26 May 1981. The scheduled launch times were 1400:00, 1400:04.5, and 1400:09 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-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 pibal observations at:

SITE AND ALTITUDE

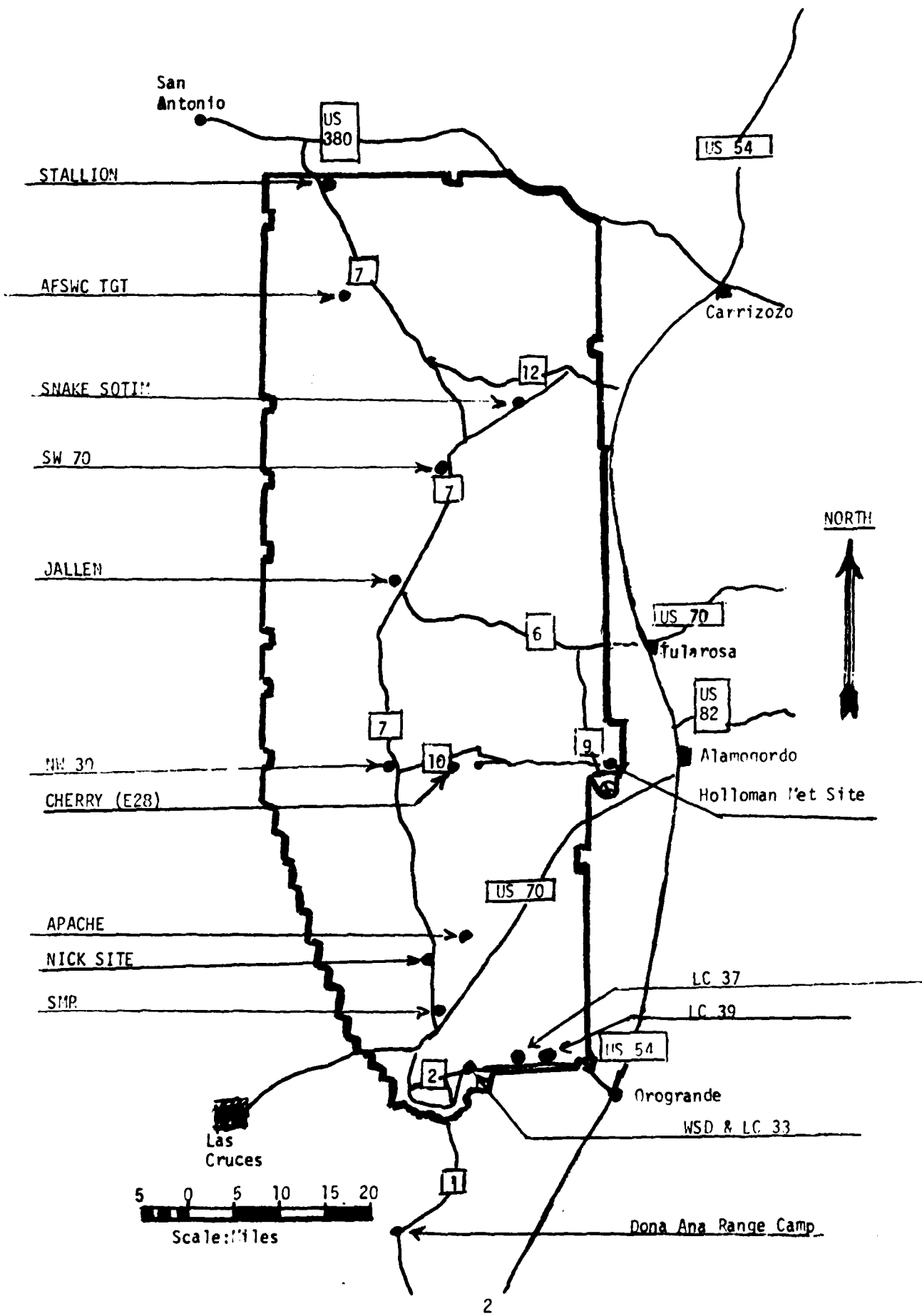
LC-33	2 KM
SMR	2 KM

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

SITE AND TIME

LC-37	1100 MDT
WSD	1200 MDT
LC-37	1300 MDT
WSD	1511 MDT

Accession For	
NTIS GRA&I	X
DTIC TAB	
Unannounced	
Justification	
By	
Date	
A	



PROJECT SURFACE OBSERVATION

TABLE <u>1</u>		STATION <u>LC-33</u>									
DATE <u>26</u> <u>MAY</u> <u>1981</u>		X = <u>484,982.64</u>		Y = <u>185,957.73</u>		H = <u>3983.00</u>					
TIME M D -T	PRESSURE mbs	TEMPERATURE OF °C	DEW POINT OF °C	RELATIVE HUMIDITY %	DENSITY gm/m ³	WIND		VISIBIL- ITY			
						DIRECTION degs In	SPEED kts				
1511	875.2	32.5	4.8	18	991	320	08	50			

OBSTRUCTIONS TO VISIBILITY	CLOUDS						REMARKS
	1st LAYER		2nd LAYER		3rd LAYER		
	AMT	TYPE	AMT	TYPE	AMT	TYPE	
	4	AC	2	CI	25,000		

PSYCHROMETRIC COMPUTATION

TIME: MDT	1511
DRY BULB TEMP.	32.5
WET BULB TEMP.	15.9
WET BULB DEPR.	16.6
DEW POINT	4.8
RELATIVE HUMID.	18

TABLE 2

LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

POLE #1 X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL			POLE #2 X485,874.93 Y186,012.00 H4033.57 53.0 ft. AGL			POLE #3 X435,977.29 Y186,116.06 H4063.92 83.6 ft. AGL		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30	288	13	T-30	295	10	T-30	292	14
T-20	278	12	T-20	285	10	T-20	287	11
T-10	273	10	T-10	282	09	T-10	283	12
T0.0	267	10	T0.0	282	07	T0.0	289	11
T+10	268	10	T+10	266	08	T+10	273	10

TABLE 3

LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, 12 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #2, 62 FEET X484,982.64, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30	295	10	T-30	294	10
T-20	288	09	T-20	289	08
T-10	291	06	T-10	285	09
T0.0	318	07	T0.0	278	08
T+10	297	06	T+10	290	08

LEVEL #3, 102 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #4, 202 FEET X484,982.64, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
T-30	284	10	T-30	288	10
T-20	285	09	T-20	284	11
T-10	280	09	T-10	282	10
T0.0	287	09	T0.0	280	10
T+10	287	10	T+10	288	09

TABLE 4

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 26 May 1981

SITE: LC-33
TIME: 1511 MDT
WSM COORDINATES:
X= 485,135.76
Y= 185,919.24
H= 3988.57

SITE: SMR
TIME: 1511 MDT
WSM COORDINATES:
X= 472,444.85
Y= 213,781.96
H= 4000.99

<u>LAYER MIDPOINT</u> <u>METERS AGL</u>	<u>DIRECTION</u> <u>DEGREES</u>	<u>SPEED</u> <u>KNOTS</u>	<u>LAYER MIDPOINT</u> <u>METERS AGL</u>	<u>DIRECTION</u> <u>DEGREES</u>	<u>SPEED</u> <u>KNOTS</u>
SURFACE	320	08	SURFACE		
150	298	10	150		
210	289	08	210		DATA INVALID
270	298	06	270		
330	264	04	330		DUE TO TRACKING
390	271	07	390		
500	263	05	500		ERROR
650	260	06	650		
800	264	06	800		
950	264	07	950		
1150	251	09	1150		
1350	253	06	1350		
1550	255	09	1550		
1750	242	09	1750		
2000	239	11	2000		

Data obtained from RPTS T-9 Tracking Pilot-Balloon Observation.

AIMING AND T-TIME COMPUTER MET MESSAGES
26 May 1981

LC-37 1100 MDT
METCM1324063
261700124876

00151003 30360876
01078005 30110866
02021006 29770841
03040006 29380803
04627006 28890758
05506009 28450714
06473012 27980672

WSD 1200 MDT
METCM1324064
261800122877

00142005 30370877
01285010 30230868
02165003 29910843
03157005 29530805
04184002 29040760
05063004 28540716
06580006 28080674

LC-37 1300 MDT
METCM1324063
261900124875

00213002 30430875
01164004 30190865
02000000 29870840
03407004 29480803
04428010 28960757
05452013 28490714
06380010 28010672

WSD 1511 MDT
METCM1324064
262120122875

00533010 30660875
01487017 30520865
02508013 30200841
03480013 29760804
04467014 29220759
05458014 28710715
06458013 28230674

STATION ALTITUDE 4051.37 FEET MSL
 26 MAY 61
 ASCENSION NO. 104

SIGNIFICANT LEVEL DATA
 1400100104
 LC-37

GEODETIC COORDINATES
 32.40175 LAT DEG
 106.31232 LON DEG

TABLE 6

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	
875.5	4651.4	29.5	.2	15.0
668.2	4294.8	26.8	4.0	23.0
650.0	4005.8	24.5	3.2	25.0
760.4	7729.1	16.5	-7	31.0
745.9	8592.5	14.1	-1.9	33.0
700.0	10338.8	9.6	-4.4	37.0
664.8	11735.9	5.5	-0.1	43.0
619.6	13606.6	-1.0	-7.8	60.0
608.2	14094.0	-1.3	-0.6	67.0
593.0	14757.7	-1.4	-9.5	54.0
557.8	16354.8	-3.5	-23.7	19.0
549.2	16758.9	-3.1	-10.6	29.0
532.2	17577.0	-3.4	-17.3	33.0
500.0	19188.2	-7.4	-19.5	37.0
474.6	20514.5	-11.2	-21.3	43.0
458.6	21379.4	-12.0	-24.0	36.0
428.2	23094.4	-15.6	-26.6	38.0
413.2	23976.3	-17.8	-23.3	62.0
400.0	24773.3	-19.5	-24.4	65.0
395.1	25074.1	-20.6	-25.1	67.0
387.8	25528.2	-20.8	-27.4	55.0
365.7	26946.6	-24.2	-29.7	60.0
354.4	27698.1	-25.6	-32.5	52.0
337.9	28830.2	-28.3	-35.8	48.0
306.8	31085.2	-33.7	-40.5	50.0
300.0	31601.5	-34.9	-42.0	48.0

STATION ALTITUDE 4051.57 FEET . SL
 26 MAY 81 1700 HRS MDZ
 ASCENSION NO. 104

UPPER AIR DATA
 1460160104
 LC-37

GEODETIC COORDINATES
 32.40175 LAT DEG
 106.51232 LON DEG

TABLE 7

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	TEMPERATURE DEWPOINT	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
4051.4	875.5	29.5	.2	15.0	1005.1	678.0	85.0	2.9	1.000250
4500.0	862.0	26.0	3.7	23.7	1000.3	675.0	50.0	3.1	1.000257
5000.0	847.2	24.2	3.1	25.2	989.0	673.0	36.5	4.0	1.000253
5500.0	832.4	22.8	2.5	26.3	970.5	671.5	23.8	5.2	1.000249
6000.0	817.8	21.4	1.8	27.3	964.1	669.7	16.3	6.6	1.000245
6500.0	803.5	20.0	1.1	28.4	951.9	669.0	13.3	6.5	1.000241
7000.0	789.5	18.6	.4	29.5	939.9	668.4	14.2	6.4	1.000237
7500.0	775.6	17.1	-0.3	30.5	923.1	664.7	7.0	5.9	1.000234
8000.0	761.9	15.7	-1.0	31.6	910.2	663.1	33.7	5.2	1.000230
8500.0	748.4	14.4	-1.8	32.8	904.3	661.5	33.2	5.1	1.000226
9000.0	734.9	13.0	-2.5	33.9	892.2	659.9	31.4	5.8	1.000222
9500.0	721.7	11.8	-3.1	35.1	880.2	658.4	298.6	7.5	1.000219
10000.0	708.7	10.5	-3.9	36.2	868.3	656.9	267.0	9.5	1.000215
10500.0	695.9	9.1	-4.5	37.7	856.7	655.3	273.1	11.2	1.000212
11000.0	683.1	7.7	-5.1	39.8	845.5	653.8	270.7	12.2	1.000208
11500.0	670.6	6.2	-5.7	42.0	834.4	651.9	263.0	12.9	1.000205
12000.0	658.2	4.8	-6.2	45.4	823.8	650.0	259.2	14.2	1.000202
12500.0	646.0	2.8	-6.5	49.9	813.5	647.9	255.6	15.6	1.000200
13000.0	633.9	1.1	-7.0	54.5	803.5	645.9	251.0	18.0	1.000197
13500.0	622.1	-0.6	-7.6	59.0	793.6	643.8	248.9	20.6	1.000194
14000.0	610.4	-1.2	-6.8	65.6	780.2	643.1	249.3	21.9	1.000193
14500.0	598.9	-1.4	-8.3	59.0	766.0	642.3	249.9	23.1	1.000187
15000.0	587.5	-1.7	-11.1	48.7	752.8	642.4	248.9	21.1	1.000181
15500.0	576.4	-2.4	-14.8	37.7	740.6	641.5	247.5	18.7	1.000175
16000.0	565.4	-3.0	-13.4	26.8	728.0	640.0	247.0	16.3	1.000169
16500.0	554.7	-3.4	-21.7	22.6	715.7	640.1	250.9	14.5	1.000165
17000.0	544.1	-3.2	-18.2	30.2	701.5	640.4	260.8	14.2	1.000164
17500.0	533.8	-3.4	-17.4	32.6	688.5	640.2	267.0	13.3	1.000161
18000.0	523.6	-4.5	-17.9	34.1	676.0	638.9	273.6	12.0	1.000159
18500.0	513.5	-5.7	-18.6	35.3	666.2	637.5	262.8	10.6	1.000156
19000.0	503.7	-6.9	-19.3	36.5	650.4	636.0	244.8	9.6	1.000154
19500.0	493.9	-8.3	-19.9	38.4	649.0	634.3	301.7	11.0	1.000151
20000.0	484.3	-9.7	-20.6	40.7	639.9	632.8	304.8	13.1	1.000149
20500.0	474.9	-11.2	-21.2	42.9	630.4	630.9	302.8	16.5	1.000147
21000.0	465.6	-11.6	-22.8	39.1	619.7	630.2	300.2	19.0	1.000143
21500.0	456.4	-12.3	-24.2	36.1	609.0	629.5	297.6	23.5	1.000140
22000.0	447.4	-13.3	-24.9	35.7	599.3	628.2	293.2	25.4	1.000138
22500.0	438.5	-14.4	-25.7	37.3	589.9	626.9	292.7	26.8	1.000136
23000.0	429.8	-15.4	-26.5	37.9	580.6	625.6	289.2	27.1	1.000133
23500.0	421.2	-16.6	-24.8	49.8	571.0	624.2	286.2	26.6	1.000132

STATION ALTITUDE 4051.37 FEET ASL
 26 MAY 81 1100 HR5 MDT
 ASCENSION NO. 104

UPPER AIR DATA
 1460160104
 LC-37

GEOLITIC COORDINATES
 32.40175 LAT DEG
 106.51232 LONG DEG

TABLE 7 CONT

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
24000.0	412.8	-17.9	62.1	562.8	622.7	283.3	25.5	1.000131
24500.0	404.5	-18.9	64.0	553.8	621.4	292.6	23.0	1.000128
25000.0	396.3	-20.3	66.5	545.6	619.7	292.7	19.9	1.000126
25500.0	388.2	-20.8	55.7	535.6	619.1	282.8	18.9	1.000123
26000.0	380.3	-21.9	56.7	527.1	617.7	292.9	18.6	1.000121
26500.0	372.5	-23.1	58.4	518.8	616.2	281.6	19.9	1.000119
27000.0	364.9	-24.3	59.4	510.5	614.7	280.1	21.7	1.000117
27500.0	357.3	-25.2	54.1	501.9	613.5	277.6	22.3	1.000114
28000.0	349.7	-26.3	50.9	493.7	612.2	275.3	22.4	1.000112
28500.0	342.6	-27.5	49.2	485.8	610.7	273.9	23.4	1.000110
29000.0	335.5	-28.7	48.2	477.9	609.2	272.9	24.6	1.000108
29500.0	328.3	-29.9	48.6	470.1	607.7	273.9	25.5	1.000106
30000.0	321.4	-31.1	49.0	462.4	606.2	275.5	26.2	1.000104
30500.0	314.6	-32.3	49.5	454.9	604.7	279.4	25.8	1.000103
31000.0	307.9	-33.5	49.9	447.5	603.2			1.000101
31500.0	301.3	-34.7	48.4	440.1	601.7			1.000099

STATION ALTITUDE 401.7 FEET
 26 MAY 41 1100 HRS EDT
 ASCENSION, NO. 104

MANDATORY LEVELS
 1460160104
 LC-37

GEODLTIC COORDINATES
 32.40175 LAT DEG
 106.31232 LONG DEG

TABLE 8

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUMID. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4902.	24.5	3.2	29.	39.0	3.8
800.0	6328.	19.6	1.0	29.	15.0	0.5
750.0	8433.	14.5	-1.7	33.	335.0	5.1
700.0	10329.	9.6	-4.4	37.	281.0	10.6
650.0	12325.	5.4	-6.4	48.	256.7	15.1
600.0	14433.	-1.4	-8.1	60.	249.9	23.0
550.0	16099.	-5.1	-19.0	28.	255.0	14.3
500.0	19161.	-7.4	-19.5	37.	297.5	10.1
450.0	21821.	-13.0	-24.7	37.	295.9	24.8
400.0	24732.	-19.5	-24.4	65.	282.7	21.4
350.0	27945.	-26.3	-33.4	51.	275.4	22.4
300.0	31538.	-34.9	-42.0	40.		

STATION ALTITUDE 3989.00 FEET MSL
 26 MAY 81 1200 HRS MDT
 ASCENSION: 110. 559

SIGNIFICANT LEVELL DATA
 1460020359
 WHITE SANDS

GEOULTIC COORDINATES
 32.40043 LAT UEG
 106.37033 LON UEG

TABLE 9

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
677.4	3089.0	29.5	16.0
850.0	4000.6	25.7	20.0
788.6	7049.5	19.7	24.0
700.0	10357.7	9.5	36.0
607.4	14160.1	-2	52.0
580.8	14733.2	-0.9	41.0
564.2	16056.3	-1.7	29.0
547.6	16566.9	-2.7	41.0
500.0	19228.5	-7.1	33.0
430.0	23030.4	-16.3	44.0
400.0	24807.1	-20.5	67.0
393.4	25211.8	-21.5	76.0
345.4	28332.4	-27.5	51.0
300.0	31614.8	-35.8	47.0

STATION ALTITUDE 3939.00 FEET MSL
 26 MAY 81 1200 HRS NDT
 ASCENSION I.O. 059

UPPER AIR DATA
 1460020559
 WHITE SANDS

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 10

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE					SPEED KNOTS	REFRACTION	
3939.0	877.4	29.5	2.7	19.0	1006.7	676.8	60.0	5.1	1.000255	
4000.0	877.1	29.5	2.7	19.0	1006.5	676.8	60.1	5.1	1.000255	
4500.0	862.1	27.4	1.0	19.1	996.2	676.4	83.1	5.2	1.000251	
5000.0	847.3	25.4	1.0	20.2	985.6	674.2	86.1	5.3	1.000248	
5500.0	832.6	24.0	.5	21.1	973.2	672.0	88.9	5.4	1.000244	
6000.0	818.1	22.6	-.1	22.0	960.9	671.0	91.5	5.6	1.000240	
6500.0	803.0	21.2	-.7	23.0	948.7	669.3	91.6	4.8	1.000237	
7000.0	790.0	19.8	-1.3	23.9	936.8	667.7	90.0	3.8	1.000233	
7500.0	775.9	18.3	-1.7	25.6	925.0	666.0	88.8	3.1	1.000230	
8000.0	762.1	16.9	-2.1	27.4	913.3	664.2	85.3	2.4	1.000227	
8500.0	748.5	15.2	-2.5	29.3	901.6	662.4	71.7	2.2	1.000224	
9000.0	735.1	13.7	-3.1	31.1	890.5	660.6	53.9	2.6	1.000221	
9500.0	722.3	12.1	-3.7	32.9	879.4	658.8	40.4	3.1	1.000218	
10000.0	709.1	10.6	-4.3	34.7	868.5	657.0	26.8	3.6	1.000214	
10500.0	696.3	9.1	-4.9	36.6	857.3	655.3	9.9	4.0	1.000211	
11000.0	683.4	7.9	-5.3	38.7	845.3	653.8	340.7	4.8	1.000208	
11500.0	671.9	6.6	-5.8	40.8	833.5	652.3	305.0	7.2	1.000205	
12000.0	659.4	5.3	-6.3	42.9	821.9	650.8	267.9	11.0	1.000202	
12500.0	646.2	4.0	-6.8	45.0	810.4	649.3	279.3	14.8	1.000199	
13000.0	634.3	2.8	-7.4	47.1	798.2	647.8	273.7	17.0	1.000196	
13500.0	622.5	1.5	-8.0	49.2	788.1	646.3	269.5	19.2	1.000192	
14000.0	611.0	.2	-8.6	51.3	777.2	644.7	264.2	19.4	1.000189	
14500.0	599.0	-.5	-10.4	47.2	764.8	643.8	259.9	19.6	1.000185	
15000.0	586.3	-.9	-12.7	40.3	751.8	643.2	257.1	18.4	1.000179	
15500.0	577.2	-1.3	-14.7	35.2	738.7	642.8	257.0	16.4	1.000175	
16000.0	568.3	-1.6	-16.9	30.0	725.8	642.3	257.1	14.5	1.000170	
16500.0	559.5	-2.2	-15.5	35.3	713.5	641.6	253.2	12.8	1.000168	
17000.0	549.0	-2.9	-14.5	40.5	701.7	640.8	262.0	11.1	1.000167	
17500.0	538.6	-3.9	-15.8	38.9	690.7	639.7	267.2	11.0	1.000163	
18000.0	528.3	-4.3	-17.2	37.2	679.9	638.5	272.7	11.3	1.000160	
18500.0	518.3	-5.7	-18.6	35.5	669.3	637.4	261.0	12.0	1.000157	
19000.0	508.4	-6.7	-20.0	33.8	658.6	636.2	267.0	13.1	1.000153	
19500.0	498.6	-7.8	-20.9	33.0	648.7	634.9	293.0	13.8	1.000151	
20000.0	489.0	-9.0	-21.5	35.2	638.9	633.5	277.1	14.2	1.000148	
20500.0	479.4	-10.2	-22.1	36.7	629.3	632.0	293.0	15.8	1.000146	
21000.0	469.1	-11.4	-22.3	38.1	619.3	630.6	293.0	17.7	1.000143	
21500.0	458.9	-12.6	-23.5	39.6	610.4	629.1	291.2	20.5	1.000141	
22000.0	447.9	-13.8	-24.2	41.0	601.3	627.6	263.3	23.5	1.000139	
22500.0	439.1	-15.0	-24.9	42.5	592.2	626.1	267.1	25.5	1.000137	
23000.0	430.5	-16.2	-25.6	43.9	583.4	624.7	263.0	27.1	1.000134	

STATION ALTITUDE 3989.00 FEET (MSL)
 26 MAY 81 1200 HRS MDT
 ASCENSION NO. 359

UNDEP AIR DATA
 1460020354
 WHITE SANDS

GEODETTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 10 CONT

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TII)	SPEED KNOTS	INDEX OF REFRACTION
23500.0	421.9	-17.4	50.1	574.2	623.2	252.8	27.7	1.000132
24000.0	413.4	-18.6	56.6	565.3	621.8	250.2	26.9	1.000131
24500.0	405.0	-19.8	63.0	556.5	620.4	277.8	26.4	1.000129
25000.0	396.8	-21.0	71.3	547.8	618.9	277.2	26.5	1.000127
25500.0	388.7	-22.1	73.7	538.9	617.6	276.6	26.6	1.000125
26000.0	380.7	-23.0	69.7	529.8	616.3	277.1	26.5	1.000122
26500.0	372.8	-24.0	65.7	520.9	615.1	277.3	26.4	1.000120
27000.0	365.1	-24.9	61.7	512.2	613.9	274.5	25.5	1.000117
27500.0	357.6	-25.9	57.7	503.6	612.7	271.7	24.9	1.000115
28000.0	350.2	-26.9	53.7	495.2	611.5	269.3	25.1	1.000113
28500.0	342.9	-27.9	50.8	487.0	610.2	268.8	25.2	1.000110
29000.0	335.6	-29.2	50.2	479.1	608.6	270.2	25.2	1.000108
29500.0	328.5	-30.5	49.6	471.4	607.0	271.8	25.8	1.000107
30000.0	321.5	-31.7	49.0	463.8	605.4	273.4	26.5	1.000105
30500.0	314.7	-33.0	48.4	456.4	603.8			1.000103
31000.0	308.0	-34.2	47.7	449.1	602.2			1.000101
31500.0	301.5	-35.5	47.1	441.9	600.6			1.000099

STATION ALTITUDE 3989.00 FEET MSL
 26 MAY 81 1200 HRS EDT
 ASCENSION NO. 359

LABORATORY LEVELS
 1460020359
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.57033 LON DEG

TABLE 11

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE	REL. HUMID. PERCENT	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4900.	25.7	1.1	20.	85.0	5.5
800.0	6038.	20.8	-7.9	23.	91.4	4.5
750.0	8449.	15.4	-2.5	29.	73.7	2.2
700.0	10367.	9.5	-4.0	30.	15.9	3.9
650.0	12347.	4.4	-6.6	44.	281.5	13.7
600.0	14465.	-5.5	-10.3	47.	259.2	19.6
550.0	16741.	-2.6	-14.5	39.	260.5	11.9
500.0	19201.	-7.1	-20.3	33.	291.0	13.5
450.0	21865.	-13.5	-24.0	41.	289.7	22.8
400.0	24755.	-20.5	-25.0	67.	277.4	20.4
350.0	27967.	-26.9	-33.4	54.	269.3	25.1
300.0	31551.	-35.8	-43.0	47.		

STATION ALTITUDE 4051.37 FEET MSL
 26 MAY 61 1300 HRS MDT
 ASCENSION NO. 105

SIGNIFICANT LEVEL DATA
 1460.00105
 LC-37

GEODLTIC COORDINATES
 32.40175 LAT DEG
 106.31232 LONG DEG

TABLE 12

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
874.5	4051.4	30.4	1.8	16.0
870.2	4195.2	28.0	3.0	20.0
850.0	4075.0	25.6	1.7	21.0
801.4	6557.8	20.6	-7	24.0
782.0	7249.3	18.2	-2.1	25.0
744.6	8617.7	14.4	-2.5	31.0
725.6	9332.5	12.6	-3.6	32.0
716.6	9676.0	11.7	-3.6	34.0
700.0	10317.9	9.8	-4.9	35.0
663.0	11787.8	5.1	-6.1	44.0
619.4	13597.0	.0	-8.2	54.0
585.6	15072.9	-8.8	-15.8	31.0
577.2	15452.4	-5	-15.9	50.0
568.8	15837.0	-1.6	-16.5	31.0
542.8	17058.4	-3.1	-17.1	33.0
500.0	19175.8	-8.4	-21.4	34.0
469.8	20755.2	-12.0	-22.3	42.0
454.8	21569.0	-14.1	-20.9	56.0
446.4	22034.1	-14.8	-23.6	47.0
430.8	22917.1	-16.6	-25.7	45.0
415.4	23815.2	-18.0	-25.8	50.0
400.0	24740.3	-20.4	-25.6	63.0
393.6	25132.7	-21.5	-25.3	71.0
379.2	26034.6	-23.0	-26.8	71.0
344.8	28304.7	-28.3	-33.8	59.0
325.0	29691.0	-31.9	-37.7	56.0
300.0	31533.4	-37.1	-42.6	56.0

GEODLTIC COORDINATES
32.40175 LAT DEG
106.31232 LON DEG

UPPER AIR DATA
1460100105
LC-37

STATION ALTITUDE 4051.37 FEET ASL
26 MAY 81 1300 HRS MDT
ASCENSION NO. 105

TABLE 13

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION.
4051.4	374.5	30.4	16.0	1070.6	679.8	120.0	1.9	1.000252
4500.0	861.1	26.9	20.4	996.5	675.9	142.5	1.4	1.000253
5000.0	840.3	25.2	21.2	989.1	674.0	164.0	1.3	1.000249
5500.0	831.6	23.7	22.1	972.9	672.3	216.2	1.7	1.000245
6000.0	817.2	22.3	23.0	960.9	670.5	229.5	2.6	1.000241
6500.0	803.9	20.8	23.9	949.1	668.6	229.5	4.0	1.000237
7000.0	789.9	19.1	24.6	938.1	666.8	230.8	5.5	1.000233
7500.0	775.0	17.5	26.1	926.5	665.0	236.7	7.6	1.000230
8000.0	761.3	16.1	28.3	914.4	663.4	240.9	9.7	1.000227
8500.0	747.7	14.7	30.5	902.5	661.8	247.7	12.1	1.000224
9000.0	734.4	13.4	31.5	890.4	660.3	251.5	12.9	1.000221
9500.0	721.2	12.2	33.0	878.4	658.9	252.4	12.7	1.000217
10000.0	708.2	10.7	34.5	866.9	657.2	244.1	11.6	1.000214
10500.0	695.3	9.2	36.1	855.9	655.4	237.6	11.4	1.000211
11000.0	682.6	7.6	39.2	845.0	653.5	233.7	11.8	1.000208
11500.0	670.1	6.0	42.2	834.3	651.8	232.0	12.4	1.000205
12000.0	657.7	4.5	45.2	823.4	649.9	237.9	13.2	1.000202
12500.0	645.5	3.1	47.9	812.3	648.2	242.5	13.5	1.000199
13000.0	633.5	1.7	50.7	801.3	646.5	250.7	13.3	1.000196
13500.0	621.7	.3	53.5	790.4	644.8	259.1	13.3	1.000193
14000.0	610.0	-.2	47.7	777.2	644.2	263.0	12.2	1.000188
14500.0	598.5	-.5	39.9	763.5	643.6	267.1	10.9	1.000182
15000.0	587.2	-.8	32.1	750.1	643.4	263.5	9.5	1.000177
15500.0	576.2	-.6	30.1	735.7	643.5	254.7	8.1	1.000173
16000.0	565.3	-1.8	31.3	724.9	642.1	251.3	8.0	1.000170
16500.0	554.5	-2.4	32.1	712.7	641.4	252.8	8.7	1.000167
17000.0	544.0	-3.0	32.9	700.8	640.6	255.9	9.6	1.000164
17500.0	533.6	-4.2	33.2	690.4	639.2	259.9	10.8	1.000162
18000.0	523.3	-5.5	33.4	680.4	637.7	264.0	11.7	1.000159
18500.0	513.3	-6.7	33.7	670.5	636.2	271.7	11.7	1.000156
19000.0	503.4	-8.0	33.9	660.8	634.7	279.4	11.8	1.000153
19500.0	493.6	-9.1	35.6	650.8	633.3	282.2	13.3	1.000151
20000.0	484.0	-10.3	38.2	640.9	631.9	283.5	15.0	1.000149
20500.0	474.6	-11.4	40.7	631.1	630.5	283.5	17.5	1.000146
21000.0	465.2	-12.6	46.2	621.6	629.1	281.0	21.2	1.000144
21500.0	456.1	-13.9	54.8	612.3	627.5	280.4	24.8	1.000143
22000.0	447.0	-14.7	47.7	602.2	626.5	279.7	26.0	1.000139
22500.0	438.1	-15.7	45.9	592.5	625.2	278.9	28.0	1.000137
23000.0	429.4	-16.7	45.5	582.9	624.0	275.0	29.9	1.000134
23500.0	420.7	-17.5	48.2	573.0	623.1	272.6	30.8	1.000132

UPPER AIR DATA
 1460100105
 LC-37

STATION ALTITUDE 4091.37 FLFT ASL
 26 MAY 81 1300 HRS 101
 ASCENSION NO. 105

GEODETIC COORDINATES
 32.40175 LAT DEG
 106.31232 LON DEG

TABLE 13 CON'T

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CELSIUS	REL. HUM. PERCENT	WIND DIRECTION DEGREES (TR)	WIND SPEED KNOTS	INDEX OF REFRACTION
24000.0	412.3	-19.5	52.6	270.8	30.3	1.000150
24500.0	403.9	-19.8	52.6	269.2	29.9	1.000128
25000.0	395.8	-21.1	68.3	269.6	30.2	1.000126
25500.0	387.7	-22.1	71.0	269.9	30.5	1.000124
26000.0	379.7	-22.9	71.0	270.0	31.2	1.000122
26500.0	371.9	-24.1	68.5	270.2	31.7	1.000119
27000.0	364.2	-25.3	65.9	270.4	31.7	1.000117
27500.0	356.6	-26.4	63.3	270.7	31.7	1.000115
28000.0	349.2	-27.6	60.6	271.4	31.8	1.000113
28500.0	341.9	-28.8	58.6	272.0	31.5	1.000111
29000.0	334.7	-30.1	57.5	272.1	29.3	1.000109
29500.0	327.7	-31.4	56.4	272.0	27.6	1.000107
30000.0	320.7	-32.8	56.0	271.3	27.6	1.000105
30500.0	313.8	-34.2	56.0			1.000103
31000.0	307.0	-35.6	56.0			1.000101
31500.0	300.4	-37.0	56.0			1.000100

STATION ALTITUDE 4751.37 FEET ASL
 26 MAY 81 1300 HRS MDT
 ASCENSION NO. 105

MANDATORY LEVELS
 1460100105
 LC-37

GEOLECTIC COORDINATES
 32.40175 LAT DEG
 106.51232 LON DEG

TABLE 14

PRESSURE GEOPOTENTIAL		TEMPERATURE	REL. HUM.	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4871.	25.6	21.	172.9	1.2
800.0	6602.	20.4	24.	229.6	4.3
750.0	8410.	15.0	30.	246.7	11.7
700.0	10308.	9.8	35.	239.0	11.3
650.0	12305.	3.6	47.	239.0	13.7
600.0	14417.	-5	41.	266.4	11.1
550.0	16693.	-2.7	32.	253.4	8.9
500.0	19149.	-8.4	34.	281.1	12.1
450.0	21800.	-14.5	51.	279.9	26.2
400.0	24699.	-20.4	63.	269.4	30.1
350.0	27899.	-27.5	61.	271.3	31.8
300.0	31470.	-37.1	56.		

STATION ALTITUDE 3989.00 FEET MSL
 26 MAY 81 1 51 HRS MT
 ASCENSION NO. 363

SIGNIFICANT LEVEL DATA
 1460020360
 WHITE SANDS

GEODLTIC COORDINATES
 32.49043 LAT UEG
 106.37033 LON UEG

TABLE 15

PRESSURE MILLIBARS	GROMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES CENTIGRADE	WET BULB DEGREES CENTIGRADE	
675.0	3089.0	32.2	5.2	16.0
850.0	4038.5	28.4	7.0	27.0
770.4	7659.8	19.4	1.9	31.0
700.0	10328.9	11.4	-2.8	37.0
635.8	12034.1	3.6	-5.8	50.0
605.3	14237.6	-1.3	-7.1	60.0
568.0	15901.3	-3.6	-16.1	37.0
543.6	17044.3	-2.7	-15.0	38.0
500.0	19203.2	-8.0	-19.6	38.0
435.4	22684.7	-16.3	-24.7	48.0
420.6	23538.2	-18.2	-20.8	60.0
400.0	24768.8	-20.0	-24.7	66.0
398.0	25510.4	-21.4	-25.4	70.0
370.2	26130.4	-22.4	-23.4	58.0
300.0	31578.3	-36.2	-44.2	43.0

UNPLK AIR DATA
 1460020300
 WHITE SANDS

STATION ALTITUDE 3489.00 FEET MSL
 26 MAY 81 151 HRS MDT
 ASCENSION NO. 360

GEODLTIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 16

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
3489.0	875.0	32.2	16.0	994.9	681.9	300.0	9.9	1.000253
4000.0	874.7	32.2	16.1	994.7	681.9	299.0	9.9	1.000253
4500.0	859.9	29.9	22.6	984.3	679.6	293.1	10.4	1.000259
5000.0	845.2	27.4	27.2	973.6	677.5	287.0	11.0	1.000260
5500.0	830.6	26.3	27.9	962.1	675.0	281.0	11.6	1.000255
6000.0	816.3	24.7	28.6	950.8	673.7	276.0	12.4	1.000250
6500.0	802.2	23.1	29.4	939.6	671.9	272.7	13.3	1.000245
7000.0	788.3	21.5	30.1	928.6	670.0	268.5	13.6	1.000241
7500.0	774.7	19.9	30.8	917.7	668.1	264.1	13.8	1.000236
8000.0	761.0	18.4	31.8	906.4	666.3	260.7	14.0	1.000232
8500.0	747.5	16.9	32.9	895.0	664.5	259.1	13.8	1.000228
9000.0	734.2	15.4	34.0	883.7	662.8	257.4	13.7	1.000224
9500.0	721.1	13.9	35.1	872.7	661.0	255.8	13.6	1.000220
10000.0	708.3	12.4	36.3	861.8	659.2	255.0	13.4	1.000216
10500.0	695.6	10.9	37.9	850.8	657.5	254.9	13.2	1.000213
11000.0	682.9	9.4	40.3	839.7	655.7	254.9	12.9	1.000210
11500.0	670.4	7.9	42.8	828.6	653.9	254.0	12.7	1.000207
12000.0	658.1	6.4	45.3	818.1	652.2	254.0	13.0	1.000203
12500.0	646.1	4.9	47.8	807.5	650.4	253.2	13.2	1.000200
13000.0	634.2	3.4	50.5	797.0	648.6	252.4	13.5	1.000197
13500.0	622.4	1.9	54.3	786.4	646.9	251.0	13.8	1.000194
14000.0	610.7	.4	58.2	776.0	645.1	249.4	14.1	1.000191
14500.0	599.3	-.8	56.4	765.0	643.6	250.1	13.5	1.000187
15000.0	587.9	-1.8	49.5	753.5	642.3	252.1	12.5	1.000181
15500.0	576.8	-2.8	42.5	742.2	641.0	255.1	11.7	1.000176
16000.0	565.8	-3.5	37.1	730.2	640.1	257.4	11.3	1.000172
16500.0	555.1	-3.1	37.5	715.3	640.0	255.5	11.9	1.000169
17000.0	544.5	-2.7	38.0	700.6	641.1	255.0	12.5	1.000166
17500.0	534.1	-3.8	38.0	690.0	639.7	258.2	13.1	1.000163
18000.0	523.8	-5.0	38.0	679.9	638.3	263.2	13.7	1.000160
18500.0	513.8	-6.3	38.0	670.0	636.8	267.9	14.5	1.000157
19000.0	503.9	-7.5	38.0	660.2	635.3	268.9	15.2	1.000154
19500.0	494.1	-9.7	39.9	650.3	633.8	268.1	16.2	1.000152
20000.0	484.4	-9.9	40.3	640.5	632.4	265.0	17.5	1.000149
20500.0	474.9	-11.1	41.7	630.7	630.9	267.5	19.5	1.000147
21000.0	465.5	-12.3	43.2	621.2	629.5	261.7	21.5	1.000144
21500.0	456.4	-13.5	44.6	611.8	628.0	273.2	23.6	1.000142
22000.0	447.4	-14.7	46.0	602.5	626.6	276.2	25.2	1.000139
22500.0	438.6	-15.9	47.5	593.4	625.1	276.2	26.4	1.000137
23000.0	429.9	-17.0	59.8	594.1	623.8	279.1	26.2	1.000136

STATION ALTITUDE 3389.00 FEET ASL
 26 MAY 61 1511 HRS EDT
 ASCENSION NO. 300

UPPER AIR DATA
 1400020300
 WHITE SANDS

STATION ALTITUDE 3389.00 FEET ASL
 26 MAY 61 1511 HRS EDT
 ASCENSION NO. 300

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG DEG

TABLE 16 CONT

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KIOTS	WIND DIRECTION DEGREES (TH)	WIND SPEED KIOTS	INDEX OF REFRACTION
23500.0	421.3	-10.1	79.6	574.8	622.0	277.5	26.2	1.000135
24000.0	412.7	-10.9	74.7	564.9	621.5	273.4	26.7	1.000132
24500.0	404.4	-19.6	69.1	555.2	620.6	268.3	27.2	1.000129
25000.0	396.2	-20.4	67.2	545.8	619.5	263.3	27.9	1.000126
25500.0	388.2	-21.4	69.9	536.7	618.4	264.0	28.3	1.000124
26000.0	380.2	-22.2	60.5	527.5	617.4	263.5	28.8	1.000121
26500.0	372.3	-23.3	57.0	518.9	615.9	268.3	29.4	1.000119
27000.0	364.5	-24.6	55.6	510.6	614.3	269.1	29.1	1.000117
27500.0	356.8	-25.9	54.2	502.4	612.7	263.3	28.4	1.000114
28000.0	349.3	-27.1	52.9	494.4	611.2	263.1	27.2	1.000112
28500.0	342.0	-28.4	51.5	486.6	609.6	268.9	26.3	1.000110
29000.0	334.8	-29.7	50.1	478.8	608.0	268.5	25.9	1.000108
29500.0	327.7	-30.9	48.7	471.2	606.4	263.0	27.0	1.000106
30000.0	320.8	-32.2	47.3	463.7	604.8	267.0	27.9	1.000105
30500.0	314.1	-33.5	46.0	456.4	603.2	263.3	28.5	1.000103
31000.0	307.5	-34.7	44.6	449.2	601.6			1.000101
31500.0	301.7	-36.0	43.2	442.1	600.0			1.000099

STATION ALTITUDE 3999.00 FEET ISL
 26 MAY 61 1511 HRS MDT
 ASCENSION 140. 360

TEMPERATURE LEVELS
 1460020300
 WHITE SANDS

GEOLOGIC COORDINATES
 52.40043 LAT DEG
 106.57033 LON DEG

TABLE 17

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FELT	AIP DEGREES	OF WPTHT CENTIGRADE	PERCENT	DIRECTION DLGRES(TN)	SPEED KNOTS	
850.0	4835.	28.4	7.6	27.	289.0	10.7	
800.0	6503.	22.9	4.1	29.	272.0	13.4	
750.0	8407.	17.2	.6	33.	259.4	13.9	
700.0	10319.	11.4	-2.8	37.	255.0	13.3	
650.0	12329.	5.4	-5.0	47.	253.4	13.2	
600.0	14452.	-0.	-8.2	57.	250.0	13.6	
550.0	16717.	-2.9	-15.3	38.	254.4	12.2	
500.0	19176.	-8.0	-19.8	38.	269.5	15.5	
450.0	21831.	-14.3	-23.5	46.	275.4	24.8	
400.0	24727.	-20.0	-24.7	66.	265.6	27.6	
350.0	27936.	-27.0	-33.7	53.	269.1	27.2	
300.0	31515.	-36.2	-44.2	43.			

DATE
FILMED
-8