

AD-A087 468

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2
193098 MLRS, MISSILE NUMBERS 1114, 1098, ROUND NUMBERS V-123, V--ETC(U)
FEB 80

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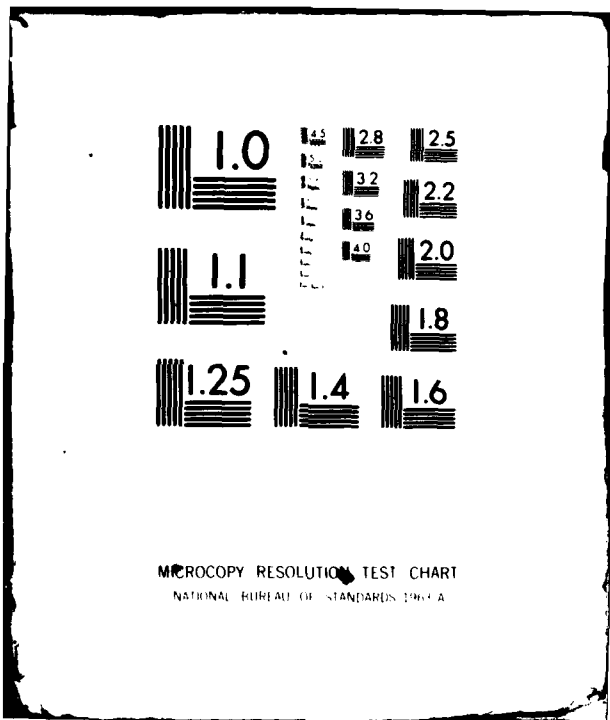
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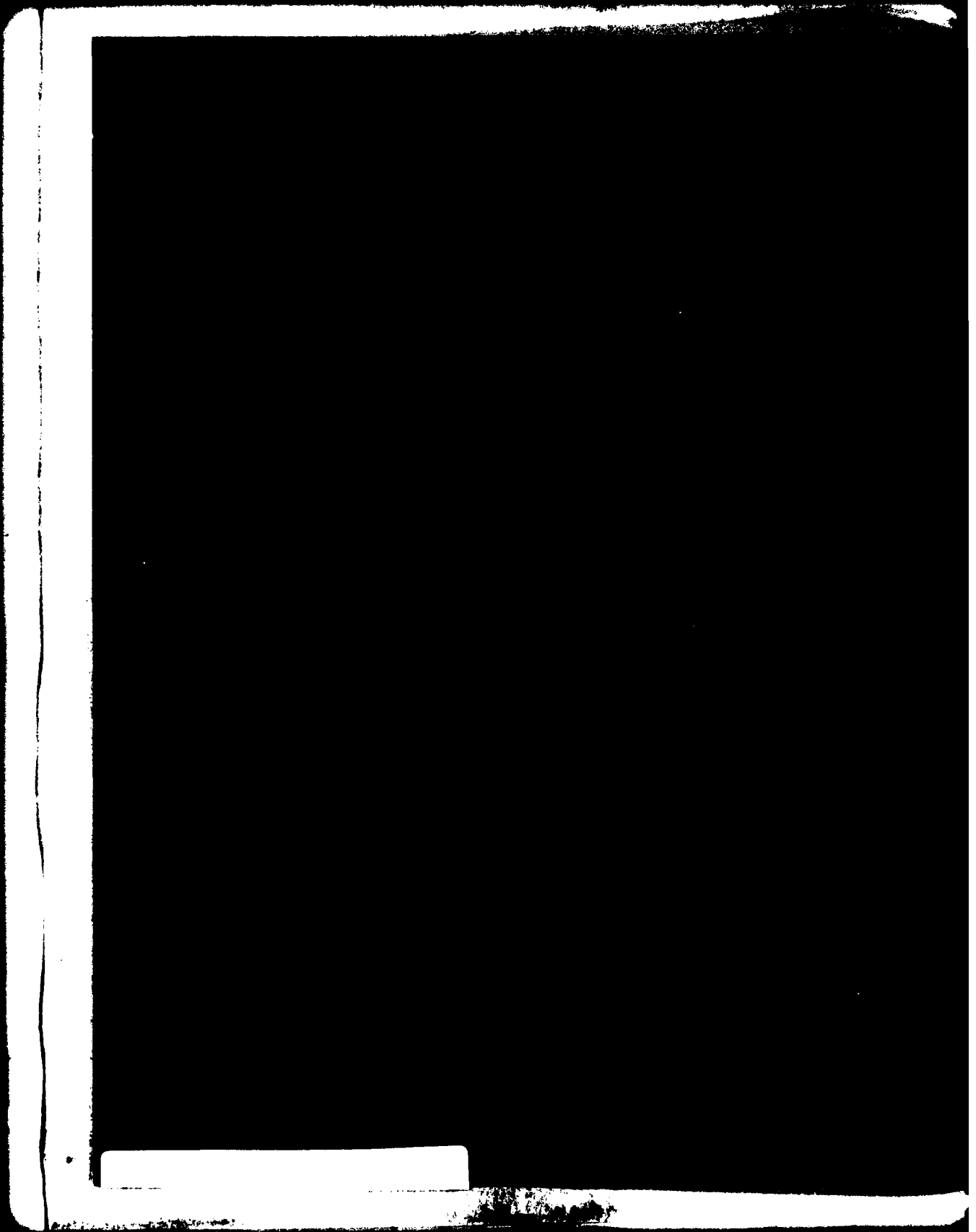
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 19309B MLRS, Missile Numbers 1114, 1098, Round Numbers V-123 and V-124 are presented in tabular form.		

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CONTENTS

PAGE

INTRODUCTION----- 1

DISCUSSION----- 1

MAP----- 2

TABLES

1. Surface Observation Taken at "C" Station----- 3
2. Nick Pilot Balloon Measured Wind Data at 1225 MST----- 4
3. LC-39 Pilot Balloon Measured Wind Data at 1230 MST----- 5
4. LC-39 Pilot Balloon Measured Wind Data at 1345 MST ----- 6
5. LC-37 Significant Level Data at 1230 MST ----- 7
6. LC-37 Upper Air Data at 1230 MST----- 8
7. LC-37 Mandatory Levels at 1230 MST----- 11
8. WSD Significant Level Data at 1300 MST----- 12
9. WSD Upper Air Data at 1300 MST----- 13
10. WSD Mandatory Levels at 1300 MST ----- 16
11. LC-37 Significant Level Data at 1415 MST----- 17
12. LC-37 Upper Air Data at 1415 MST----- 18
13. LC-37 Mandatory Levels at 1415 MST----- 22

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INTRODUCTION

19309B MLRS, Missile Numbers 1114, 1098, Round Numbers V-123
V-124, were launched from LC-39, White Sands Missile Range (WSMR),
New Mexico, at 1230, 1346:16 MST, 14 February 1980.

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 ($^{\circ}$ F), relative humidity, dew point ($^{\circ}$ F), wind direction and speed, and cloud cover were made at the "C" Station Met Site.

(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:

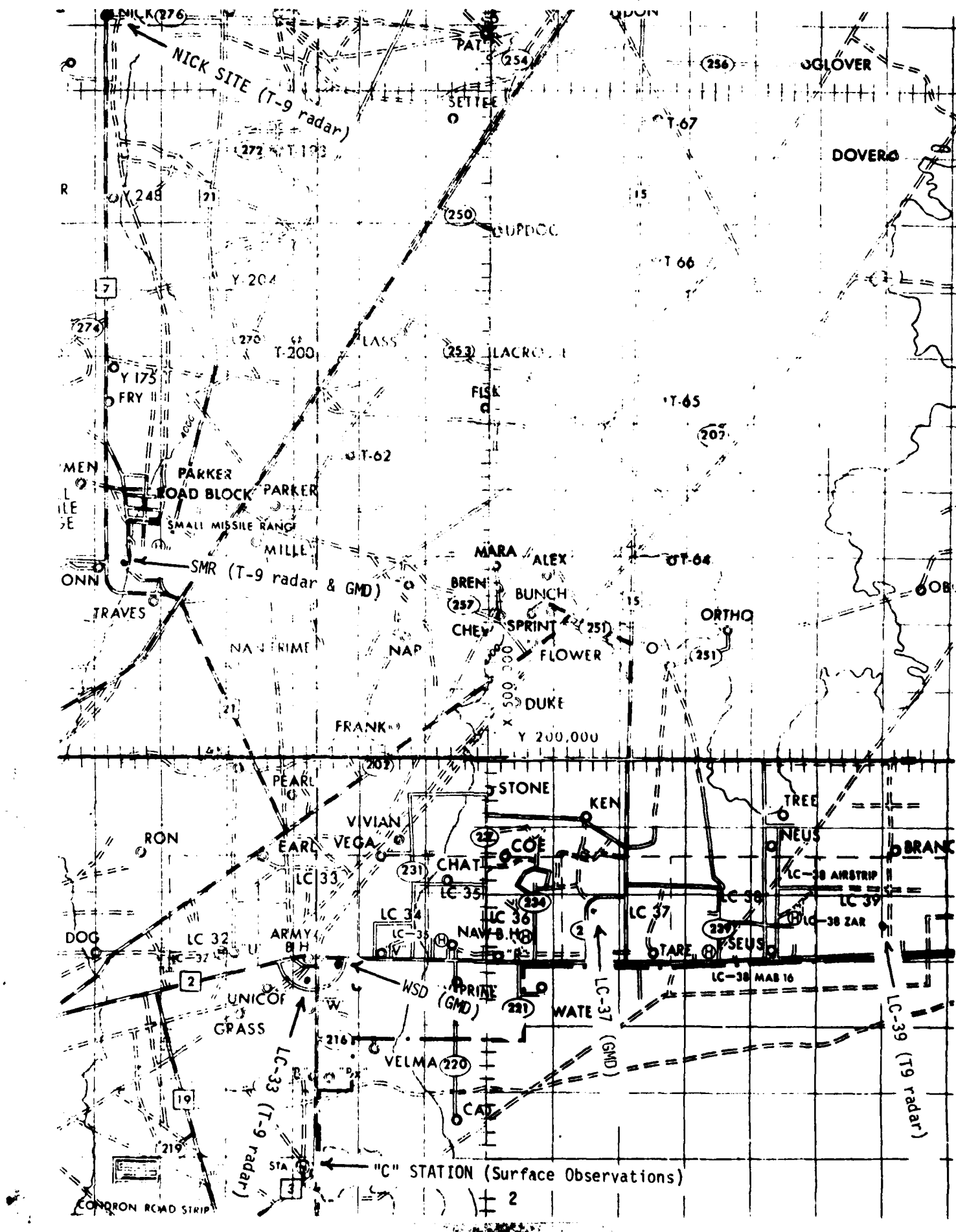
SITE AND ALTITUDE

LC-39	2km
NICK	2km

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

SITE AND TIME

LC-37	1230 MST
WSD	1300 MST
LC-37	1415 MST



"C" STATION (Surface Observations)

2

TABLE 1.

SURFACE OBSERVATIONS OBTAINED FROM "C" STATION ON 14 February 1980

TIME MST	SKY CONDITIONS	PVLG VSBY	WEATHER AND OBSTRUCTIONS TO VISION	STA PRES IN hg	TEMP	DEW POINT	PRC IN	SPEED
0058	E600VC	10	RW-	25.925	49	47	160	10
0158	E600VC	10	RW-	25.920	48	47	160	08
0258	E600VC	10	RW-	25.920	49	47	170	13
0358	E600VC	10	RW-	25.925	50	44	140	05
0458	E600VC	15		25.950	49	43	200	12
0558	30SCTE500VC	15	RW-	25.965	48	44	170	11
0658	30SCTE550VC	40		25.935	47	44	170	18
0758	30SCTE55BKN90BKN250BKN	40		25.985	48	43	170	17
0858	30SCT55SCTE250BKN	40		25.990	54	43	160	17
0958	30SCT55SCT90SCTE250BKN	40		26.015	57	50	270	14
1058	30SCTE55BKN250BKN	40		26.030	56	43	190	13
1158	30SCT55SCTE80BKN250BKN	40		25.995	58	43	220	13
1258	30SCTE55BKN80BKN250BKN	40		25.970	58	43	170	11
1358	E55BKN80BKN2500VC	40		25.940	58	31	190	14
1458	E55BKN80BKN250BKN	40		25.940	60	43	190	16
1558	E55BKN80BKN250BKN	40		25.935	60	46	150	11
1658	E55RKN120BKN250BKN	40		25.935	61	44	220	08
1758	E40BKN120BKN2500VC	30		25.970	54	55	200	09
1858	E40BKN	10	RW-	25.970	55	46	220	06
1958	40SCT120SCT	10		25.970	57	43	210	14
2058	40SCT120SCT	10		25.975	57	43	170	12
2158	40SCT120SCT	10		25.975	53	45	E090	12
2258	40SCT	10		25.975	54	45	100	12
2358	40SCT	10		25.975	54	55	130	12

STATION ALTITUDE 4047.27 FEET MSL
 14 FEB 60 1230 HRS MSL
 ASCENSION NO. 17

SIGNIFICANT LEVEL DATA
 0450180017
 LC-37

GEODETIC COORDINATES
 32.41141 LAT DEG
 106.30852 LON DEG

TABLE 5

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE		TEMPERATURE		REL. HUM. PERCENT
	MSL FEET	FEET	AIR DEGREES	DEWPOINT CENTIGRADE	
877.7	4047.3		16.1	7.6	57.0
850.0	4936.4		11.7	4.4	51.0
700.0	10171.3		.6	-1.6	54.0
595.2	14467.7		-9.0	-9.1	99.0
535.4	17055.5		-13.9	-14.0	99.0
527.4	17430.8		-15.4	-17.2	36.0
519.4	17809.3		-17.0	-34.1	21.0
511.4	18193.2		-15.9	-23.9	50.0
500.0	18751.6		-16.4	-25.0	44.0
457.8	20909.9		-21.9	-36.1	26.0
400.0	24129.2		-29.4	-41.1	31.0
379.8	25340.0		-32.1	-40.9	41.0
327.6	28715.3		-40.6	-49.3	38.0
300.0	30671.4		-44.7		
286.0	31719.4		-46.8		
250.0	34639.0		-49.5		
217.4	37667.4		-47.5		
200.0	39476.3		-49.4		
150.0	45587.7		-56.8		

STATION ALTITUDE 4047.27 FEET MSL
 14 FEB. 80
 ASCENSION NO. 17

UPPER AIR DATA
 0450180017
 LC-37

GEODETIC COORDINATES
 32.41141 LAT DEG
 106.30852 LONG DEG

TABLE 6

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		INDEX OF REFRACTION
							SPEED KNOTS	SPEED KNOTS	
4047.3	877.7	16.1	57.0	1052.3	664.1	220.0	220.0	10.1	1.000262
4500.0	863.5	13.9	59.0	1043.8	661.4	225.7	225.7	13.2	1.000276
5000.0	848.0	11.6	61.3	1033.7	658.6	226.2	226.2	16.6	1.000269
5500.0	832.4	10.5	63.5	1018.6	657.3	227.9	227.9	20.0	1.000265
6000.0	817.1	9.4	65.7	1003.7	656.1	229.1	229.1	23.4	1.000261
6500.0	802.1	8.4	67.9	989.0	654.8	229.9	229.9	26.9	1.000256
7000.0	787.4	7.3	70.1	974.6	653.6	230.3	230.3	30.1	1.000252
7500.0	772.9	6.3	72.3	960.4	652.3	230.5	230.5	33.3	1.000247
8000.0	758.7	5.2	74.5	946.4	651.0	230.9	230.9	34.3	1.000243
8500.0	744.8	4.1	76.7	932.7	649.8	231.2	231.2	34.2	1.000239
9000.0	731.1	3.1	78.9	919.1	648.5	231.6	231.6	34.0	1.000235
9500.0	717.6	2.0	81.1	905.8	647.2	232.2	232.2	32.4	1.000231
10000.0	704.5	1.0	83.2	892.7	645.9	232.9	232.9	30.8	1.000226
10500.0	691.2	-0.1	85.1	879.5	644.6	233.6	233.6	29.3	1.000222
11000.0	678.0	-1.3	86.9	866.3	643.3	233.4	233.4	29.0	1.000218
11500.0	665.1	-2.4	88.6	853.4	641.9	237.1	237.1	28.8	1.000214
12000.0	652.4	-3.5	90.4	840.7	640.5	239.0	239.0	28.6	1.000210
12500.0	639.9	-4.6	92.1	823.2	639.2	241.8	241.8	30.3	1.000206
13000.0	627.7	-5.7	93.9	815.8	637.8	244.3	244.3	32.1	1.000202
13500.0	615.7	-6.8	95.6	803.7	636.4	246.3	246.3	34.5	1.000198
14000.0	604.0	-8.0	97.4	791.8	635.1	247.6	247.6	38.5	1.000194
14500.0	592.4	-9.1	99.0	780.0	633.7	248.6	248.6	42.6	1.000190
15000.0	580.8	-10.0	99.0	767.5	632.5	247.9	247.9	47.5	1.000186
15500.0	569.4	-11.0	99.0	755.3	631.4	247.0	247.0	52.7	1.000183
16000.0	558.3	-11.9	99.0	743.2	630.2	247.2	247.2	54.2	1.000179
16500.0	547.3	-12.8	99.0	731.3	629.0	247.7	247.7	54.7	1.000176
17000.0	536.6	-13.8	99.0	719.7	627.9	253.1	253.1	55.0	1.000172
17500.0	525.9	-15.7	74.1	711.0	625.4	258.9	258.9	57.0	1.000166
18000.0	515.4	-16.5	35.4	699.2	624.3	262.5	262.5	64.1	1.000159
18500.0	505.1	-16.2	46.7	684.3	624.7	264.2	264.2	66.8	1.000157
19000.0	495.0	-17.0	41.9	672.9	623.6	265.1	265.1	67.0	1.000154
19500.0	484.9	-18.3	37.8	662.6	622.0	266.1	266.1	64.8	1.000151
20000.0	475.1	-19.6	33.6	652.5	620.5	267.1	267.1	62.1	1.000148
20500.0	465.5	-20.9	29.4	642.6	618.9	268.7	268.7	62.4	1.000145
21000.0	456.1	-22.1	26.1	632.7	617.3	269.9	269.9	63.4	1.000143
21500.0	446.6	-23.3	26.9	622.5	615.9	269.1	269.1	64.3	1.000140
22000.0	437.3	-24.4	27.7	612.5	614.4	264.7	264.7	64.2	1.000138
22500.0	428.3	-25.6	28.5	602.6	613.0	264.2	264.2	64.1	1.000136
23000.0	419.4	-26.8	29.2	592.9	611.6	263.5	263.5	63.6	1.000133
23500.0	410.7	-27.9	30.0	583.4	610.1	262.3	262.3	61.9	1.000131

UPPER AIR DATA
 0450180017
 LC-37

STATION ALTITUDE 4047.27 FEET MSL
 14 FEB 60 1230 HRS MST
 ASCENSION NO. 1/

GEODETIC COORDINATES
 32.41141 LAT LEG
 106.30852 LON DEG

TABLE 6 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
24000.0	402.2	-29.1	30.8	574.0	608.7	261.0	60.2	1.000129
24500.0	393.7	-30.2	34.1	564.5	607.2	259.3	58.4	1.000127
25000.0	385.4	-31.3	38.2	555.1	605.9	257.3	56.7	1.000125
25500.0	377.1	-32.3	40.9	545.9	604.4	255.4	54.9	1.000123
26000.0	369.0	-33.8	40.4	536.9	602.8	254.0	53.0	1.000121
26500.0	361.0	-35.0	40.0	528.0	601.2	252.0	51.2	1.000118
27000.0	353.2	-36.3	39.5	519.3	599.0	252.2	49.7	1.000116
27500.0	345.5	-37.5	39.1	510.8	598.0	251.7	48.2	1.000114
28000.0	338.0	-38.8	38.6	502.4	596.4	252.7	48.4	1.000112
28500.0	330.7	-40.1	38.2	494.2	594.8	253.8	49.0	1.000111
29000.0	323.4	-41.2	32.5**	485.7	593.3	255.7	51.8	1.000109
29500.0	316.2	-42.2	22.8**	477.1	592.0	257.7	56.3	1.000108
30000.0	309.2	-43.3	13.0**	468.6	590.6	259.4	62.2	1.000104
30500.0	302.3	-44.3	3.3**	460.3	589.3	260.5	71.2	1.000103
31000.0	295.5	-45.4		452.0	588.0	261.3	80.2	1.000101
31500.0	288.9	-46.4		443.7	586.7	261.0	89.7	1.000099
32000.0	282.3	-47.1		435.0	585.8	261.8	99.3	1.000097
32500.0	275.9	-47.5		426.0	585.2	262.3	102.6	1.000095
33000.0	269.6	-48.0		417.1	584.6	262.9	105.1	1.000093
33500.0	263.5	-48.4		408.5	584.0	263.0	105.3	1.000091
34000.0	257.5	-48.9		400.0	583.4	264.4	104.6	1.000089
34500.0	251.6	-49.4		391.7	582.8	264.7	106.5	1.000087
35000.0	245.9	-49.3		382.6	582.9	264.0	109.4	1.000085
35500.0	240.3	-48.9		373.3	583.4	264.0	111.1	1.000083
36000.0	234.8	-48.6		364.2	583.8	264.8	112.6	1.000081
36500.0	229.4	-48.3		355.4	584.2	264.0	113.2	1.000079
37000.0	224.2	-47.9		346.8	584.0	264.8	112.8	1.000077
37500.0	219.1	-47.6		338.4	585.1	264.0	112.7	1.000075
38000.0	214.1	-47.8		331.0	584.8	264.4	114.5	1.000074
38500.0	209.2	-48.4		324.2	584.1	264.1	116.4	1.000072
39000.0	204.4	-48.9		317.6	583.4	263.8	117.9	1.000071
39500.0	199.8	-49.4		311.1	582.7	263.5	119.2	1.000069
40000.0	195.1	-50.0		304.7	581.9	263.5	119.0	1.000068
40500.0	190.6	-50.6		298.4	581.1	263.7	117.2	1.000066
41000.0	186.2	-51.2		292.2	580.3	264.0	115.6	1.000065
41500.0	181.8	-51.9		286.2	579.5	264.7	114.3	1.000064
42000.0	177.8	-52.5		280.3	578.7	265.4	113.1	1.000062
42500.0	173.5	-53.1		274.6	578.0	266.0	112.2	1.000061
43000.0	169.4	-53.7		268.9	577.2	266.0	111.5	1.000060
43500.0	165.5	-54.3		263.4	576.4	266.0		1.000059

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

STATION ALTITUDE 4047.27 FEET MSL
 14 FEB. 80 1230 HMS MST
 ASCENSION NO. 17

0450160017
 LC-37

GEODETIC COORDINATES
 32.41141 LAT LEG
 106.30852 LON LEG

TABLE 6 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION, DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION,
4400.0	161.0	-54.9		258.0	575.0			1.000057
44500.0	157.9	-55.5		252.7	574.8			1.000056
45000.0	154.2	-56.1		247.5	574.0			1.000055
45500.0	150.0	-56.7		242.4	573.2			1.000054

STATION ALTITUDE 3989.00 FEET MSL
 14 FEB. 80
 ASCENSION NO. 86

SIGNIFICANT LEVEL DATA
 0450U20000
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT LEG
 106.37033 LON LEG

TABLE 8

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE		TEMPERATURE		REL. HUM. PERCENT
	MSL FEET	FEET	AIR DEGREES	DEWPOINT CENTIGRADE	
879.0	3989.0	3989.0	14.3	5.7	56.0
857.6	4673.8	4673.8	15.0	3.5	46.0
850.0	4920.0	4920.0	11.9	2.0	53.0
827.6	5643.8	5643.8	8.2	.4	58.0
748.8	8336.6	8336.6	1.9	1.8	99.0
700.0	10117.1	10117.1	-.9	-1.0	99.0
664.0	11501.4	11501.4	-2.2	-2.3	99.0
618.8	13331.4	13331.4	-6.2	-8.5	98.0
601.2	14073.7	14073.7	-6.8	-6.3	89.0
584.0	14817.5	14817.5	-8.3	-9.0	95.0
575.4	15196.1	15196.1	-9.0	-10.3	90.0
542.0	16710.6	16710.6	-12.1	-14.6	80.0
517.4	17872.9	17872.9	-15.1	-22.1	55.0
500.0	18713.9	18713.9	-17.4	-24.9	52.0
462.2	20641.0	20641.0	-21.8	-26.2	67.0
439.6	21851.3	21851.3	-23.6	-28.5	64.0
424.8	22672.1	22672.1	-25.5	-27.5	63.0
400.0	24097.4	24097.4	-29.2	-37.1	46.0
382.6	25133.0	25133.0	-31.2	-39.2	45.0
329.4	28569.9	28569.9	-39.7	-49.0	36.0
300.0	30656.8	30656.8	-43.6		
280.4	32139.5	32139.5	-47.9		
250.0	34624.5	34624.5	-49.2		
216.0	37795.8	37795.8	-47.4		
200.0	39462.8	39462.8	-50.0		
165.8	43473.9	43473.9	-52.6		
150.0	45583.4	45583.4	-57.2		
142.0	46727.6	46727.6	-59.0		

STATION ALTITUDE 4047.27 FEET MSL
 14 FEB. 60 1230 HRS MST
 ASCENSION NO. 17

MANDATORY LEVELS
 0450180017
 LC-37

GEOMETRIC COORDINATES
 32.41141 LAT LEG
 106.30852 LONG LEG

TABLE 7

PRESSURE GEOPOTENTIAL MILLIBARS	FEET	TEMPERATURE		REL. HUMID. PERCENT	WIND DATA	
		AIR DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE		DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	4933.	11.7	4.4	61.	226.0	16.1
800.0	6588.	8.2	2.7	68.	230.0	27.5
750.0	8328.	4.5	.7	76.	231.1	34.2
700.0	10161.	.6	-1.8	64.	233.1	30.2
650.0	12101.	-3.7	-5.0	91.	239.6	29.0
600.0	14160.	-8.3	-8.6	98.	247.9	39.9
550.0	16350.	-12.6	-12.7	99.	247.5	54.6
500.0	18725.	-16.4	-25.8	44.	264.8	60.9
450.0	21293.	-22.9	-36.7	27.	265.4	64.1
400.0	24089.	-29.4	-41.1	31.	260.7	59.8
350.0	27171.	-36.8	-45.5	39.	252.0	49.1
300.0	30611.	-44.7			260.8	74.0
250.0	34564.	-49.5			264.7	107.2
200.0	39382.	-49.4			263.5	119.1
175.0	42231.	-52.8			265.8	112.5
150.0	45466.	-56.8				

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

STATION ALTITUDE 3989.00 FEET MSL
 14 FEB. 60
 ASCENSION NO. 86

UPPER AIR DATA
 0450020000
 WHITE SANDS

GEOGETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG 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	DIRECTION DEGREES (T)	WIND DATA		INDEX OF REFRACTION
							SPEED KNOTS	DIRECTION DEGREES (T)	
3989.00	879.0	14.3	56.0	1061.1	601.8		0	1.000278	
4000.0	878.7	14.3	55.8	1060.6	601.8	232.3	0	1.000278	
4500.0	863.0	14.8	48.5	1040.2	602.3	232.3	1.2	1.000269	
5000.0	847.5	11.5	53.5	1033.9	658.3	232.3	2.4	1.000264	
5500.0	832.2	9.0	57.0	1024.5	655.3	232.3	3.6	1.000259	
6000.0	816.9	7.4	63.3	1011.4	653.5	232.3	4.8	1.000257	
6500.0	801.8	6.2	71.0	996.7	652.2	232.7	6.4	1.000255	
7000.0	787.0	5.0	74.6	982.3	650.8	233.4	8.5	1.000253	
7500.0	772.5	3.9	86.2	968.2	649.5	233.8	10.7	1.000250	
8000.0	758.2	2.7	93.9	954.3	648.2	231.1	14.0	1.000247	
8500.0	744.2	1.6	99.0	940.2	648.0	229.4	17.4	1.000244	
9000.0	730.2	0.9	99.0	925.3	648.0	228.3	21.0	1.000239	
9500.0	716.3	0.1	99.0	910.7	645.0	227.6	24.9	1.000234	
10000.0	703.1	-0.7	99.0	896.3	644.0	227.2	28.7	1.000229	
10500.0	689.9	-1.4	99.0	881.2	643.4	229.0	32.0	1.000225	
11000.0	676.8	-1.7	99.0	866.1	642.8	230.6	35.4	1.000220	
11500.0	664.0	-2.2	99.0	851.3	642.2	232.1	36.9	1.000216	
12000.0	651.4	-3.3	98.7	833.5	640.9	233.9	36.7	1.000211	
12500.0	638.9	-4.4	98.5	820.0	639.5	235.6	36.2	1.000207	
13000.0	626.8	-5.5	98.2	813.7	638.1	236.6	35.0	1.000202	
13500.0	614.8	-6.3	96.0	800.9	637.1	238.1	34.6	1.000198	
14000.0	602.9	-6.7	89.9	786.8	636.5	240.6	37.3	1.000193	
14500.0	591.3	-7.7	89.4	774.3	635.4	243.6	39.7	1.000190	
15000.0	579.8	-8.6	92.6	762.2	634.2	245.9	42.3	1.000185	
15500.0	568.5	-9.6	88.0	750.3	633.0	249.5	45.6	1.000181	
16000.0	557.4	-10.6	84.7	738.6	631.7	251.7	48.6	1.000177	
16500.0	546.5	-11.7	81.4	727.1	630.4	253.6	51.5	1.000173	
17000.0	535.6	-12.8	73.8	716.2	629.9	256.6	54.4	1.000169	
17500.0	525.2	-14.1	63.0	705.7	627.3	259.2	57.4	1.000164	
18000.0	514.8	-15.4	54.5	695.3	625.6	260.3	59.9	1.000161	
18500.0	504.5	-16.8	52.8	685.1	623.9	260.4	62.0	1.000158	
19000.0	494.3	-18.0	54.2	674.6	622.4	260.5	63.6	1.000155	
19500.0	484.3	-19.2	58.1	663.9	621.0	260.8	63.2	1.000152	
20000.0	474.5	-20.3	62.0	653.4	619.6	261.1	62.8	1.000150	
20500.0	464.9	-21.5	65.9	643.1	618.2	261.6	61.8	1.000148	
21000.0	455.4	-22.3	66.1	632.1	617.2	262.3	60.0	1.000145	
21500.0	446.0	-23.1	64.9	621.0	616.2	263.2	58.1	1.000142	
22000.0	436.9	-23.9	67.4	610.4	615.2	262.5	56.5	1.000140	
22500.0	427.9	-25.1	79.0	600.6	613.7	261.5	55.0	1.000138	
23000.0	419.0	-26.4	74.5	591.1	612.2	260.9	54.8	1.000135	

UPPER AIR DATA
0450020060
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
14 FEB. 60
ASCENSION NO. 80

GEODETIC COORDINATES
32.40043 LAT LEG
106.37033 LONG LEG

TABLE 9 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	WIND POINT	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
							DIRECTION DEGREES (TN)	SPEED KNOTS	
23500.0	410.2	-27.6	-32.7	61.5	541.9	610.5	260.6	55.1	1.000132
24000.0	401.0	-28.9	-36.3	48.5	572.8	608.9	258.9	55.6	1.000129
24500.0	393.2	-30.0	-37.9	45.6	563.1	607.0	257.2	55.8	1.000127
25000.0	384.9	-30.9	-38.9	45.1	553.4	606.4	256.7	54.3	1.000125
25500.0	376.0	-32.1	-40.2	44.1	544.2	604.9	256.9	52.5	1.000122
26000.0	368.5	-33.3	-41.6	42.7	535.2	603.5	257.6	50.4	1.000120
26500.0	360.5	-34.6	-43.0	41.4	526.4	601.0	258.1	50.0	1.000118
27000.0	352.0	-35.8	-44.5	40.1	517.7	600.2	258.1	50.7	1.000116
27500.0	345.1	-37.0	-45.9	38.8	509.2	598.6	258.7	51.8	1.000114
28000.0	337.7	-38.3	-47.3	37.5	500.8	597.1	259.7	53.1	1.000112
28500.0	330.4	-39.5	-48.8	36.2	492.6	595.5	261.4	56.1	1.000110
29000.0	323.1	-40.5	-51.7	28.6**	483.8	594.2	263.4	60.4	1.000108
29500.0	316.0	-41.4	-55.4	20.0**	475.0	593.0	264.6	65.2	1.000106
30000.0	309.0	-42.4	-60.7	11.3**	466.4	591.8	265.1	70.4	1.000104
30500.0	302.1	-43.3	-71.6	2.7**	457.9	590.6	265.0	75.7	1.000102
31000.0	295.3	-44.6			450.2	589.0	265.7	78.5	1.000100
31500.0	288.7	-46.0			442.8	587.1	265.3	81.1	1.000099
32000.0	282.2	-47.5			435.6	585.2	265.9	83.6	1.000097
32500.0	275.8	-48.1			426.8	584.4	266.0	86.2	1.000095
33000.0	269.5	-48.4			417.6	584.1	266.0	89.3	1.000093
33500.0	263.3	-48.6			408.5	583.8	266.0	93.0	1.000091
34000.0	257.3	-48.9			399.7	583.4	266.1	96.3	1.000089
34500.0	251.4	-49.1			391.0	583.1	266.2	99.4	1.000087
35000.0	245.7	-49.0			381.9	583.3	266.2	103.8	1.000085
35500.0	240.1	-48.7			372.7	583.6	266.1	108.9	1.000083
36000.0	234.6	-48.4			363.7	584.0	265.8	113.4	1.000081
36500.0	229.3	-48.1			355.0	584.4	265.4	117.8	1.000079
37000.0	224.1	-47.9			346.5	584.8	265.2	119.4	1.000077
37500.0	219.0	-47.6			338.1	585.1	265.0	120.0	1.000075
38000.0	214.0	-47.7			330.7	584.9	265.2	116.3	1.000074
38500.0	209.1	-48.5			324.2	583.9	265.5	114.8	1.000072
39000.0	204.3	-49.3			317.9	582.9	266.0	109.8	1.000071
39500.0	199.7	-50.0			311.7	581.9	266.0	102.5	1.000069
40000.0	195.0	-50.3			305.0	581.5	267.4	97.2	1.000068
40500.0	190.5	-50.7			293.4	581.1	267.8	93.8	1.000066
41000.0	186.1	-51.0			291.9	580.7	268.0	93.6	1.000065
41500.0	181.9	-51.3			285.6	580.2	268.0	95.2	1.000064
42000.0	177.7	-51.6			279.4	579.8	268.0	96.6	1.000062
42500.0	173.6	-52.0			273.3	579.4	268.0	97.9	1.000061
43000.0	169.3	-52.3			267.4	579.0	268.1	99.1	1.000060

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

UPPER AIR DATA
 0450020000
 WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
 14 FEB. 80 1300 HRS MST
 ASCENSION NO. 86

GEOMETRIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

TABLE 9 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	WETPOINT CENTIGRADE				DIRECTION DEGREES(T)	SPEED KNOTS	
43500.0	165.0	-52.6		261.7	578.5	267.0	101.0	1.000053	
44000.0	161.8	-53.7		256.8	577.1	267.5	103.0	1.000057	
44500.0	158.0	-54.8		252.0	575.6			1.000056	
45000.0	154.3	-55.9		247.4	574.2			1.000055	
45500.0	150.6	-57.0		242.8	572.8			1.000054	
46000.0	147.1	-57.8		238.0	571.6			1.000053	
46500.0	143.6	-58.6		233.1	570.6			1.000052	

STATION ALTITUDE 3989.00 FEET MSL
 14 FEB. 80 1300 HRS MST
 ASCENSION NO. 80

MANDATORY LEVELS
 0450020066
 WHITE SANDS

GEOMETRIC COORDINATES
 32.40043 LAT DEG
 106.37033 LONG DEG

TABLE 10

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DATA		
				DIRECTION DEGREES(IN)	SPEED KNOTS	
850.0	4916.	11.9	53.	232.3	2.2	
800.0	6562.	6.1	72.	232.8	6.6	
750.0	8287.	2.0	98.	230.0	15.9	
700.0	10107.	-0.9	99.	227.6	29.4	
650.0	12045.	-3.4	99.	234.1	36.7	
600.0	14109.	-6.9	89.	241.2	36.0	
550.0	16320.	-11.3	82.	253.0	50.5	
500.0	18694.	-17.4	52.	260.4	62.8	
450.0	21256.	-22.8	65.	262.8	58.9	
400.0	24058.	-29.2	46.	258.5	55.7	
350.0	27146.	-36.3	40.	258.1	51.0	
300.0	30597.	-43.6		265.7	76.7	
250.0	34550.	-49.2		266.3	100.0	
200.0	39369.	-50.0		266.7	103.3	
175.0	42220.	-51.9		268.0	97.4	
150.0	45467.	-57.2				

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

STATION ALTITUDE 4047.27 FEET MSL
 14 FEB. 60
 ASCENSION NO. 18

SIGNIFICANT LEVEL DATA
 0450180018
 LC-37

TABLE 11

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	GEOMETRIC COORDINATES	
			LATITUDE	LONGITUDE
876.8	14.0	63.0	32.41141	106.30852
865.6	12.0	65.0		
850.0	11.0	68.0		
804.8	6.6	74.0		
764.4	3.9	90.0		
700.0	-1.1	99.0		
623.0	-5.7	79.0		
578.8	-9.0	60.0		
519.8	-14.5	59.0		
507.6	-16.4	70.0		
500.0	-16.5	60.0		
495.4	-16.7	50.0		
418.6	-26.0	40.0		
408.0	-28.8	37.0		
362.2	-35.1	43.0		
342.0	-38.5	34.0		
335.6	-38.5	30.0		
300.0	-44.0			
250.0	-47.7			
224.8	-49.8			
200.0	-49.7			
150.0	-58.0			
128.6	-65.2			
114.4	-66.0			
107.8	-65.3			
100.0	-67.8			
86.0	-70.7			
80.2	-69.4			
70.0	-67.5			
66.2	-68.5			
61.0	-66.5			
58.4	-63.2			
50.0	-68.0			
48.0	-69.4			
30.0	-63.5			
25.6	-59.7			
23.0	-62.5			

GEODETIC COORDINATES
52-41141 LAT DEG
106-30852 LONG DEG

UPPER AIR DATA
0450180018
LC-37

STATION ALTITUDE 4047.27 FEET MSL
14 FEB. 80
ASCENSION NO. 18

TABLE 12

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DEWPOINT				DIRECTION, DEGREES(TYP)	SPEED KNOTS	
4047.3	876.8	14.0	7.1	63.0	1059.1	601.6	240.0	11.9	1.000282
4500.0	862.5	11.8	5.6	65.6	1050.3	650.9	228.7	13.8	1.000276
5000.0	847.0	10.7	5.1	68.4	1035.3	637.7	219.8	16.3	1.000272
5500.0	831.5	9.2	4.1	70.4	1022.0	655.9	213.2	19.2	1.000267
6000.0	816.4	7.8	3.1	72.4	1008.9	654.1	213.3	22.8	1.000262
6500.0	801.5	6.4	2.3	75.3	995.5	652.5	210.8	26.6	1.000257
7000.0	786.7	5.4	2.4	81.0	980.5	651.4	221.9	28.1	1.000254
7500.0	772.2	4.4	2.4	86.8	965.7	650.2	228.4	31.7	1.000251
8000.0	757.9	3.5	2.2	90.9	951.0	649.2	233.9	36.4	1.000247
8500.0	743.8	2.7	1.5	92.8	936.2	648.1	237.7	41.2	1.000243
9000.0	729.4	1.8	1.0	94.7	921.7	647.1	239.8	44.4	1.000238
9500.0	716.3	.9	.5	96.6	907.4	646.1	240.9	47.1	1.000234
10000.0	703.0	.1	-.1	98.6	893.3	645.0	241.8	48.4	1.000230
10500.0	689.7	-.8	-1.3	96.4	879.5	643.9	242.4	49.9	1.000224
11000.0	676.6	-1.7	-2.7	93.2	866.0	642.7	243.3	51.9	1.000219
11500.0	663.7	-2.7	-4.1	89.9	852.6	641.6	244.2	53.9	1.000213
12000.0	651.1	-3.6	-5.5	86.6	839.4	640.4	245.7	54.9	1.000208
12500.0	638.7	-4.5	-6.9	83.3	826.5	639.2	247.3	55.7	1.000203
13000.0	626.6	-5.4	-8.3	80.0	813.7	638.1	248.8	56.4	1.000199
13500.0	614.8	-6.3	-9.3	79.2	800.9	637.0	250.3	56.5	1.000194
14000.0	602.7	-7.2	-10.1	79.4	788.0	635.9	251.8	56.7	1.000191
14500.0	591.1	-8.1	-10.9	79.7	775.4	634.8	252.7	57.5	1.000187
15000.0	579.8	-8.9	-11.7	80.0	763.0	633.8	253.3	58.6	1.000183
15500.0	568.3	-9.9	-13.3	76.4	751.0	632.5	254.0	59.5	1.000179
16000.0	557.1	-11.0	-14.9	72.5	739.2	631.2	255.0	59.7	1.000175
16500.0	546.2	-12.0	-16.5	68.7	727.6	630.0	255.1	60.0	1.000171
17000.0	535.4	-13.0	-18.2	64.8	716.2	628.7	257.2	60.7	1.000168
17500.0	524.9	-14.0	-19.9	60.9	705.0	627.4	258.3	61.5	1.000164
18000.0	514.5	-15.3	-20.6	63.7	694.6	625.8	259.9	62.1	1.000161
18500.0	504.3	-16.4	-21.3	65.6	683.8	624.4	261.7	62.6	1.000159
19000.0	494.2	-16.8	-24.8	49.9	671.2	623.9	263.9	62.1	1.000154
19500.0	484.1	-18.0	-26.1	48.6	660.5	622.5	266.3	61.6	1.000151
20000.0	474.2	-19.1	-27.5	47.4	650.0	621.1	267.8	61.8	1.000149
20500.0	464.5	-20.3	-28.8	46.2	639.6	619.7	268.7	62.8	1.000146
21000.0	455.1	-21.4	-30.1	45.0	629.4	618.3	268.3	65.2	1.000143
21500.0	445.8	-22.5	-31.4	43.7	619.4	616.9	267.8	67.5	1.000141
22000.0	436.7	-23.7	-32.8	42.5	609.6	615.4	266.7	69.6	1.000138
22500.0	427.8	-24.8	-34.1	41.3	599.9	614.0	266.0	70.4	1.000136
23000.0	419.1	-25.9	-35.5	40.1	590.4	612.6	265.4	72.0	1.000133
23500.0	410.5	-27.2	-37.0	38.7	581.1	611.0	265.2	72.8	1.000131

UPPER AIR DATA
 0450180010
 LC-37

STATION ALTITUDE 4047.27 FEET MSL
 14 FEB. 60
 ASBESTOS 10. 10

GEOMETRIC COORDINATES
 32.41141 LAT N
 106.30352 LONG W

TABLE 12 (CONT)

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, DEGREES (T)	SPEED KNOTS	INDEX OF REFRACTION
24000.0	403.0	-28.5	37.3	572.0	609.4	205.0	73.7	1.000129
24500.0	393.2	-29.9	38.0	563.0	607.7	205.3	73.4	1.000127
25000.0	384.9	-31.2	39.3	554.2	606.0	205.6	73.0	1.000125
25500.0	376.7	-32.6	40.6	545.5	604.3	205.2	71.9	1.000123
26000.0	368.7	-34.0	41.9	536.9	602.5	205.7	70.5	1.000121
26500.0	360.8	-35.3	42.4	528.4	600.8	205.7	70.3	1.000119
27000.0	353.0	-36.6	39.0	519.8	599.2	205.4	70.7	1.000116
27500.0	345.3	-37.9	35.5	511.4	597.5	205.1	72.9	1.000114
28000.0	337.8	-38.5	31.4	501.4	596.8	205.9	76.2	1.000112
28500.0	330.3	-39.3	25.8**	492.0	595.6	205.7	80.7	1.000110
29000.0	323.0	-40.4	19.8**	483.4	594.4	205.6	86.3	1.000108
29500.0	315.9	-41.5	13.8**	475.0	593.0	205.4	92.5	1.000106
30000.0	308.9	-42.6	7.8**	466.7	591.6	205.2	99.1	1.000104
30500.0	302.1	-43.7	1.8**	458.6	590.2	205.2	103.0	1.000102
31000.0	295.3	-44.3		449.6	589.3	205.4	105.2	1.000100
31500.0	288.6	-44.8		440.3	588.7	205.7	105.3	1.000098
32000.0	282.1	-45.2		431.3	588.1	206.2	104.5	1.000096
32500.0	275.8	-45.7		422.4	587.5	206.6	103.7	1.000094
33000.0	269.6	-46.2		413.7	586.9	207.0	102.8	1.000092
33500.0	263.3	-46.6		405.2	586.3	207.5	101.0	1.000090
34000.0	257.5	-47.1		396.9	585.7	208.2	97.8	1.000088
34500.0	251.7	-47.6		388.7	585.1	208.9	94.7	1.000087
35000.0	246.0	-48.0		380.7	584.5	208.6	94.7	1.000085
35500.0	240.4	-48.5		372.7	583.9	208.8	94.0	1.000083
36000.0	234.9	-48.9		365.0	583.4	207.6	102.5	1.000081
36500.0	229.5	-49.4		357.4	582.8	208.2	112.6	1.000080
37000.0	224.3	-49.8		349.8	582.2	204.6	126.8	1.000078
37500.0	219.2	-49.8		341.8	582.2	203.0	144.1	1.000076
38000.0	214.1	-49.8		333.9	582.3	202.2	156.7	1.000074
38500.0	209.2	-49.7		326.2	582.3	202.2	164.0	1.000073
39000.0	204.4	-49.7		318.7	582.3	201.9	162.3	1.000071
39500.0	199.7	-49.7		311.4	582.3	202.1	149.0	1.000069
40000.0	195.1	-50.4		305.1	581.4	202.5	134.8	1.000068
40500.0	190.5	-51.1		296.9	580.3	203.3	118.7	1.000067
41000.0	186.1	-51.8		292.8	579.6	204.4	102.6	1.000065
41500.0	181.7	-52.5		286.9	578.7	205.4	98.8	1.000064
42000.0	177.5	-53.1		281.0	577.8	206.6	95.2	1.000063
42500.0	173.3	-53.8		275.3	576.9	207.5	93.9	1.000061
43000.0	169.3	-54.5		269.7	576.1	208.3	94.2	1.000060
43500.0	165.3	-55.2		264.3	575.2	209.0	94.4	1.000059

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

STATION ALTITUDE 4047.27 FEET MSL
 14 FEB. 80 1415 HRS MST
 ASCENSION NO. 10

UPPER AIR DATA
 045010010
 LC-37

GEODETIC COORDINATES
 32.41141 LAT 1EG
 106.30852 LONG LEG

TABLE 12 (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	
44000.0	161.5	-55.9		258.9	574.3	200.7	94.8	1.000058
44500.0	157.7	-56.6		253.7	573.4	208.3	95.2	1.000056
45000.0	154.0	-57.2		248.5	572.5	207.7	96.2	1.000055
45500.0	150.4	-57.9		243.5	571.5	206.4	97.7	1.000054
46000.0	146.8	-58.7		238.5	570.5	205.1	103.3	1.000053
46500.0	143.3	-59.5		233.7	569.4	204.0	106.5	1.000052
47000.0	139.9	-60.4		229.0	568.3	203.1	109.1	1.000051
47500.0	136.5	-61.2		224.3	567.2	202.2	111.7	1.000050
48000.0	133.2	-62.0		219.8	566.1	201.5	115.1	1.000049
48500.0	130.0	-62.8		215.3	565.0	201.0	119.0	1.000048
49000.0	126.8	-63.5		210.8	564.0	200.7	122.2	1.000047
49500.0	123.7	-64.1		206.2	563.2	201.0	125.0	1.000046
50000.0	120.7	-64.7		201.7	562.4	201.2	125.0	1.000045
50500.0	117.7	-65.3		197.3	561.6	201.5	119.0	1.000044
51000.0	114.9	-65.9		193.1	560.8	201.9	114.2	1.000043
51500.0	112.0	-66.8		188.2	561.0	200.9	106.5	1.000042
52000.0	109.3	-67.5		183.3	561.4	200.0	98.6	1.000041
52500.0	106.6	-68.1		178.9	561.1	200.0	93.9	1.000040
53000.0	103.9	-68.5		175.2	560.0	200.0	89.5	1.000039
53500.0	101.4	-68.7		171.6	558.9	200.0	92.1	1.000038
54000.0	98.8	-68.8		167.9	558.0	200.0	94.7	1.000037
54500.0	96.4	-68.5		164.0	557.3	200.0	96.8	1.000037
55000.0	94.0	-69.0		160.3	556.6	200.0	93.2	1.000036
55500.0	91.6	-69.5		156.7	556.0	200.0	89.7	1.000035
56000.0	89.3	-70.0		153.1	555.3	200.0	86.1	1.000034
56500.0	87.1	-70.5		149.6	554.6	200.0	80.5	1.000033
57000.0	84.9	-70.5		145.9	554.0	200.0	69.2	1.000032
57500.0	82.7	-70.0		141.9	553.3	200.0	58.0	1.000032
58000.0	80.7	-69.5		138.0	552.9	200.0	50.9	1.000031
58500.0	78.7	-69.1		134.3	552.5	200.0	46.2	1.000030
59000.0	76.7	-68.6		130.7	552.0	200.0	43.2	1.000029
59500.0	74.8	-68.4		127.2	551.7	200.0	43.7	1.000028
60000.0	72.9	-68.1		123.8	551.4	200.0	44.8	1.000028
60500.0	71.1	-67.7		120.6	551.0	200.0	46.2	1.000027
61000.0	69.3	-67.7		117.5	550.4	200.0	47.5	1.000026
61500.0	67.6	-68.1		114.9	550.0	200.0	47.9	1.000026
62000.0	65.9	-68.4		112.1	550.0	200.0	46.9	1.000025
62500.0	64.3	-67.8		109.0	550.0	200.0	45.0	1.000024
63000.0	62.7	-67.2		106.0	550.0	200.0	42.3	1.000024
63500.0	61.1	-66.6		103.1	550.0	200.0	37.7	1.000023

STATION ALTITUDE 4047.27 FEET MSL
 14 FEB. 60 1415 HRS MST
 ASCENSION NO. 18

UPPER AIR DATA
 045010010
 LC-37
 TABLE 12 (CONT)

GEODETIC COORDINATES
 32.41141 LAT DEG
 106.30852 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION, DEGREES (T)	SPEED, KNOTS	
64000.0	59.6	-64.8		99.7	502.4	208.7	33.0	1.000022
64500.0	58.2	-63.3		95.6	504.3	209.7	28.3	1.000022
65000.0	56.7	-64.1		94.5	503.3	271.0	23.6	1.000021
65500.0	55.3	-64.9		92.6	502.2	273.1	18.9	1.000021
66000.0	54.0	-65.6		90.6	501.2	273.5	18.0	1.000020
66500.0	52.7	-66.4		88.7	500.2	274.0	17.1	1.000020
67000.0	51.4	-67.2		86.9	509.1	274.5	16.3	1.000019
67500.0	50.1	-67.9		85.0	500.1	273.9	15.4	1.000019
68000.0	48.8	-68.6		83.3	500.9	273.0	14.5	1.000019
68500.0	47.6	-69.3		81.4	500.2	272.0	13.6	1.000018
69000.0	46.3	-69.0		79.3	500.7	273.5	12.2	1.000018
69500.0	45.0	-68.7		77.2	507.1	201.2	10.8	1.000017
70000.0	44.2	-68.4		75.2	507.5	200.0	9.4	1.000017
70500.0	43.1	-68.0		73.2	507.9	297.2	10.9	1.000016
71000.0	42.0	-67.7		71.3	508.4	302.6	13.7	1.000016
71500.0	41.0	-67.4		69.4	508.8	300.0	16.5	1.000015
72000.0	40.0	-67.1		67.6	509.2	313.5	18.3	1.000015
72500.0	39.0	-66.8		65.8	509.6	321.7	20.0	1.000015
73000.0	38.0	-66.5		64.1	500.1	324.4	22.0	1.000014
73500.0	37.1	-66.2		62.4	500.5	334.9	24.0	1.000014
74000.0	36.2	-65.9		60.6	500.9	341.2	26.0	1.000014
74500.0	35.3	-65.5		59.2	501.3	346.5	28.3	1.000013
75000.0	34.4	-65.2		57.7	501.8	342.6	30.2	1.000013
75500.0	33.6	-64.9		56.2	502.2	330.4	32.6	1.000013
76000.0	32.7	-64.6		54.7	502.6	320.2	36.3	1.000012
76500.0	31.9	-64.3		53.2	503.0	310.1	40.9	1.000012
77000.0	31.1	-64.0		51.9	503.4	299.3	47.0	1.000012
77500.0	30.4	-63.7		50.5	503.9	291.1	54.4	1.000011
78000.0	29.6	-63.2		49.2	504.5	283.4	61.9	1.000011
78500.0	28.9	-62.6		47.9	505.3	282.2	67.9	1.000011
79000.0	28.2	-62.0		46.6	506.0	279.5	74.0	1.000010
79500.0	27.5	-61.5		45.3	506.8	277.2	80.2	1.000010
80000.0	26.9	-60.9		44.1	507.6	276.7	85.0	1.000010
80500.0	26.2	-60.3		42.9	508.4	278.2	89.8	1.000010
81000.0	25.6	-59.7		41.6	509.2	278.2	94.7	1.000009
81500.0	25.0	-60.3		40.9	508.3	275.8		1.000009
82000.0	24.4	-61.0		40.0	507.5			1.000009
82500.0	23.8	-61.6		39.2	506.6			1.000007
83000.0	23.2	-62.2		38.4	505.8			1.000009

STATION ALTITUDE 4047.27 FEET MSL
 14 FEB. 60
 ASCENSION NO. 18

MANDATORY LEVELS
 0450160018
 LC-37

GEODETIC COORDINATES
 32.41141 LAT DEG
 106.30852 LON DEG

TABLE 13

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4899.	11.0	5.3	68.	221.2	15.8
800.0	6546.	6.3	2.4	70.	217.2	20.7
750.0	8275.	3.0	1.9	92.	236.1	39.1
700.0	10102.	-1.1	-2	99.	241.8	40.7
650.0	12039.	-3.7	-5.6	80.	245.9	55.0
600.0	14102.	-7.4	-10.3	60.	252.1	56.7
550.0	16310.	-11.6	-16.0	70.	255.7	59.9
500.0	18685.	-16.5	-22.4	60.	262.5	62.5
450.0	21258.	-22.0	-30.8	44.	268.0	60.5
400.0	24064.	-28.8	-38.8	37.	265.0	73.8
350.0	27146.	-37.1	-46.3	38.	266.3	70.9
300.0	30594.	-44.0			265.3	103.6
250.0	34577.	-47.7			268.9	94.5
200.0	39377.	-49.7			262.1	150.3
175.0	42220.	-53.6			267.2	93.8
150.0	45440.	-58.0			260.3	100.0
125.0	49156.	-63.9			260.8	123.0
100.0	53605.	-67.8			254.8	93.4
80.0	57972.	-69.4			252.1	49.6
70.0	60599.	-67.5			273.5	40.9
60.0	63646.	-65.2			268.7	34.5
50.0	67286.	-68.0			273.9	15.4
40.0	71678.	-67.1			312.2	16.1
30.0	77424.	-63.5			286.3	57.7
25.0	81134.	-60.3				

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

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