

AD-A121 650

19314A KLRS MISSILE NUMBER BC-140 BC-144 BC-141 ROUND
NUMBER V-319/PO-59.. (U) ARMY ELECTRONICS RESEARCH AND
DEVELOPMENT COMMAND WSMR NM ATM.. SEP 82

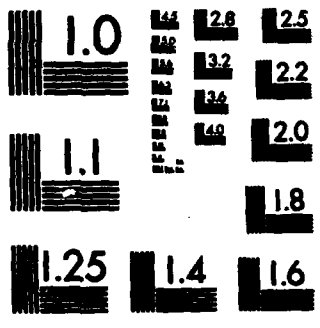
1/1

UNCLASSIFIED

F/G 4/2

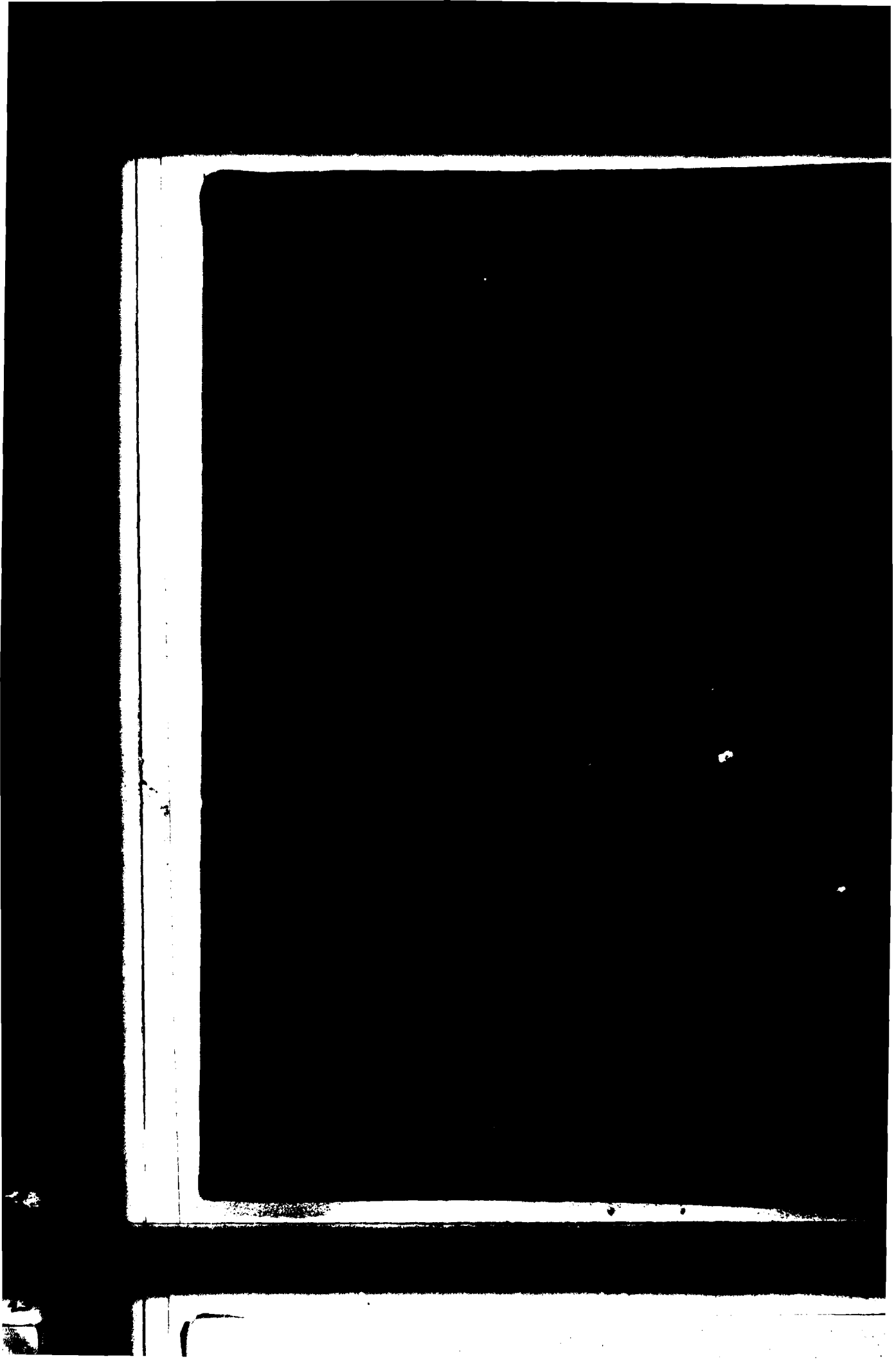
NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

ADA 12165U



UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		
1. REPORT NUMBER DR 1258	2. GOVT ACCESSION NO. A121650	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 19314A MLRS, Missile No. BC-140, BC-144, BC-141 Round No. V-318/PQ-58, V-319/PQ-59, V-320/PQ-60	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 Sep 82	
	13. NUMBER OF PAGES	
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research & 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; width: fit-content; margin: 10px auto;">This document has been approved for public release and sale; its distribution is unlimited.</div>		
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) <div style="text-align: right; font-weight: bold; font-size: 1.2em;">DTIC SELECTE NOV 22 1982 A</div>		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) ✓ Meteorological data gathered for the launching of the 19314A MLRS, Missile No. BC-140, BC-144, RC-141, Round No. V-318/PQ-58, V-319/PQ-59, V-320/PQ-60, presented in tabular form, 1		

50 1478 1478

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

CONTENTS

PAGE

INTRODUCTION----- 1

DISCUSSION----- 1

GENERAL AREA MAP----- 2

LAUNCH AREA DIAGRAM----- 3

TABLES

1. Surface Observation Taken at 1530 MDT at DEADHORSE----- 4

2. Anemometer Measured Winds 30 FT AGL----- 5

3. Anemometer Measured Winds 30 FT AGL----- 6

4. Anemometer Measured Winds 90 FT AGL----- 7

5. Pilot-Balloon Measured Wind Data at Mal Site at 1535 MDT----- 8

6. Aiming and T-Time Computer Met Messages----- 9

7. Lana Significant Level Data at 1230 MDT----- 10

8. Lana Upper Air Data at 1230 MDT----- 11

9. Lana Mandatory Levels at 1230 MDT----- 12

10. Rita Significant Level Data at 1330 MDT----- 13

11. Rita Upper Air Data at 1330 MDT----- 14

12. Rita Mandatory Levels at 1330 MDT----- 15

13. Lana Significant Level Data at 1400 MDT----- 16

14. Lana Upper Air Data at 1400 MDT----- 17

15. Lana Mandatory Levels at 1400 MDT----- 18

16. Rita Significant Level Data at 1530 MDT----- 19

17. Rita Upper Air Data at 1530 MDT----- 20

18. Rita Mandatory Levels at 1530 MDT----- 21



Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A	

INTRODUCTION

19314A MLRS, Missile Numbers BC-140, BC-144 and BC-141, Round Numbers V-318/PQ-58 thru V-320/PQ-60, were launched from DEADHORSE, White Sands Missile Range (WSMR), New Mexico, at 1530:01, 1530:05 and 1530:10, MDT 10 Sep 82. The scheduled launch times were 1500 MDT and 4.5 seconds separation.

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 DEADHORSE Met Site at T-0 minutes.

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

b. Upper Air

(1) Low level wind data were obtained from a double theodolite pilot-balloon observation at:

SITE AND ALTITUDE

MAL 800 meters

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

SITE AND TIME

LANA	1230 MDT
RITA	1330 MDT
LANA	1400 MDT
RITA	1530 MDT

DEAD HORSE
NET SITE



1 inch = 1000 ft

Y493,000

X521,000

X523,000

Y491,000

BASE
#107

EAST
#108

LINE OF FIRE
L-598

30 meter
Anemometer tower

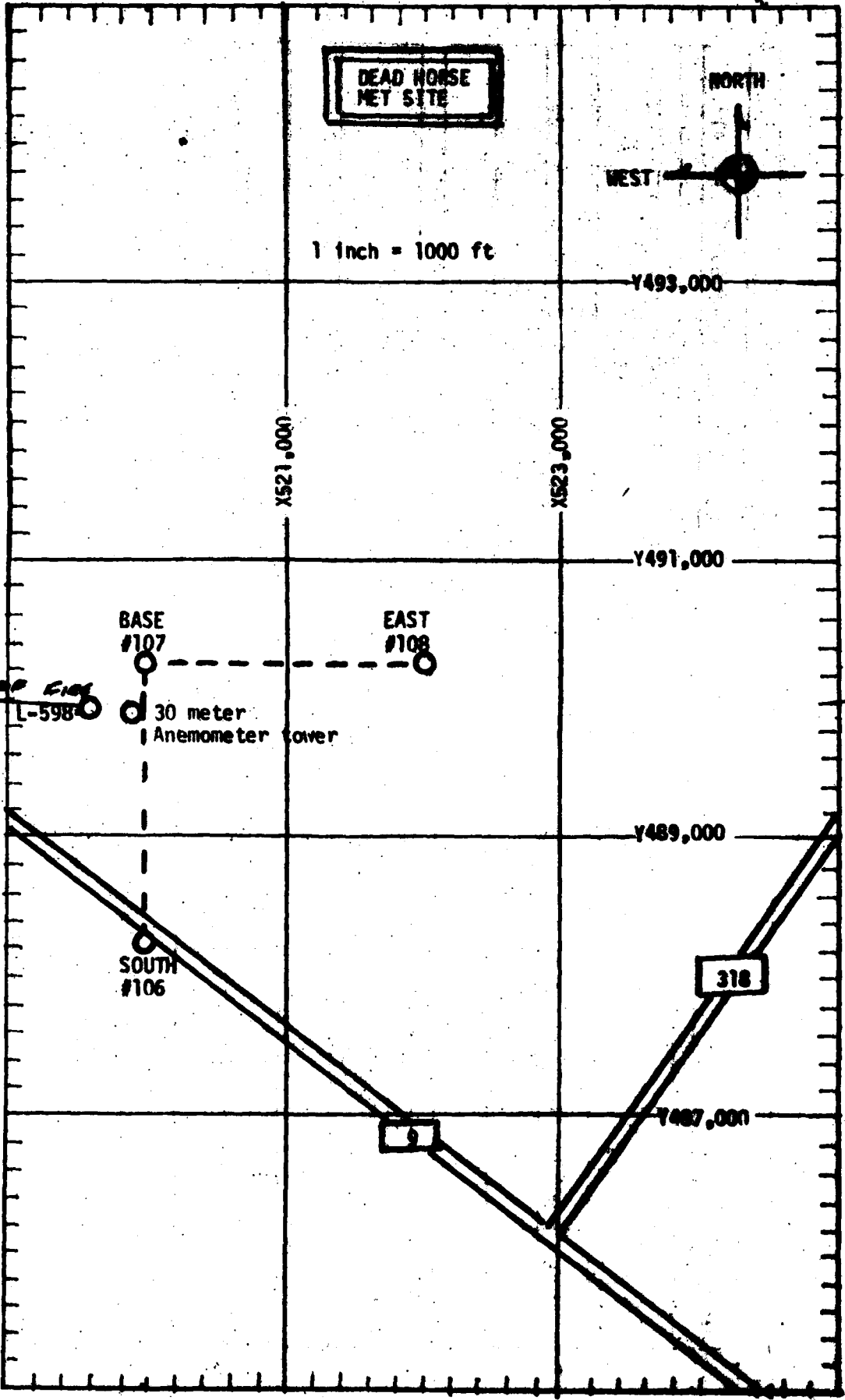
Y489,000

SOUTH
#106

318

Y487,000

9



PROJECT SURFACE OBSERVATION

TABLE 1 STATION DEADHORSE
 DATE 10 SEP 82 X = 519,600.4 Y = 489,900.5 # 4131.5
 DAY MONTH YEAR

TIME M D I	PRESSURE mba	TEMPERATURE OF °C	DEW POINT OF °C	RELATIVE HUMIDITY %	DENSITY gm/m ³	WIND		VISIBIL- ITY
						DIRECTION degs in	SPEED kts	
1530	872.0	23.7	18.4	72	1022	220	08	12

OBSTRUCTIONS TO VISIBILITY	CLOUDS						REMARKS
	1st LAYER AMT TYPE HGT	2nd LAYER AMT TYPE HGT	3rd LAYER AMT TYPE HGT				
	7 CB 3500	3 AC 9000					

PSYCHROMETRIC COMPUTATION

TIME: MDT	1530
DRY BULB TEMP.	23.7
WET BULB TEMP.	20.0
WET BULB DEPR.	3.7
DEW POINT	18.4
RELATIVE HUMID.	72

TABLE 2

ANEMOMETER DATA 30 FOOT LEVEL OF
30 METER TOWER

X=519,923.74 Y=489,901.20 H=4132.51 (BASE)

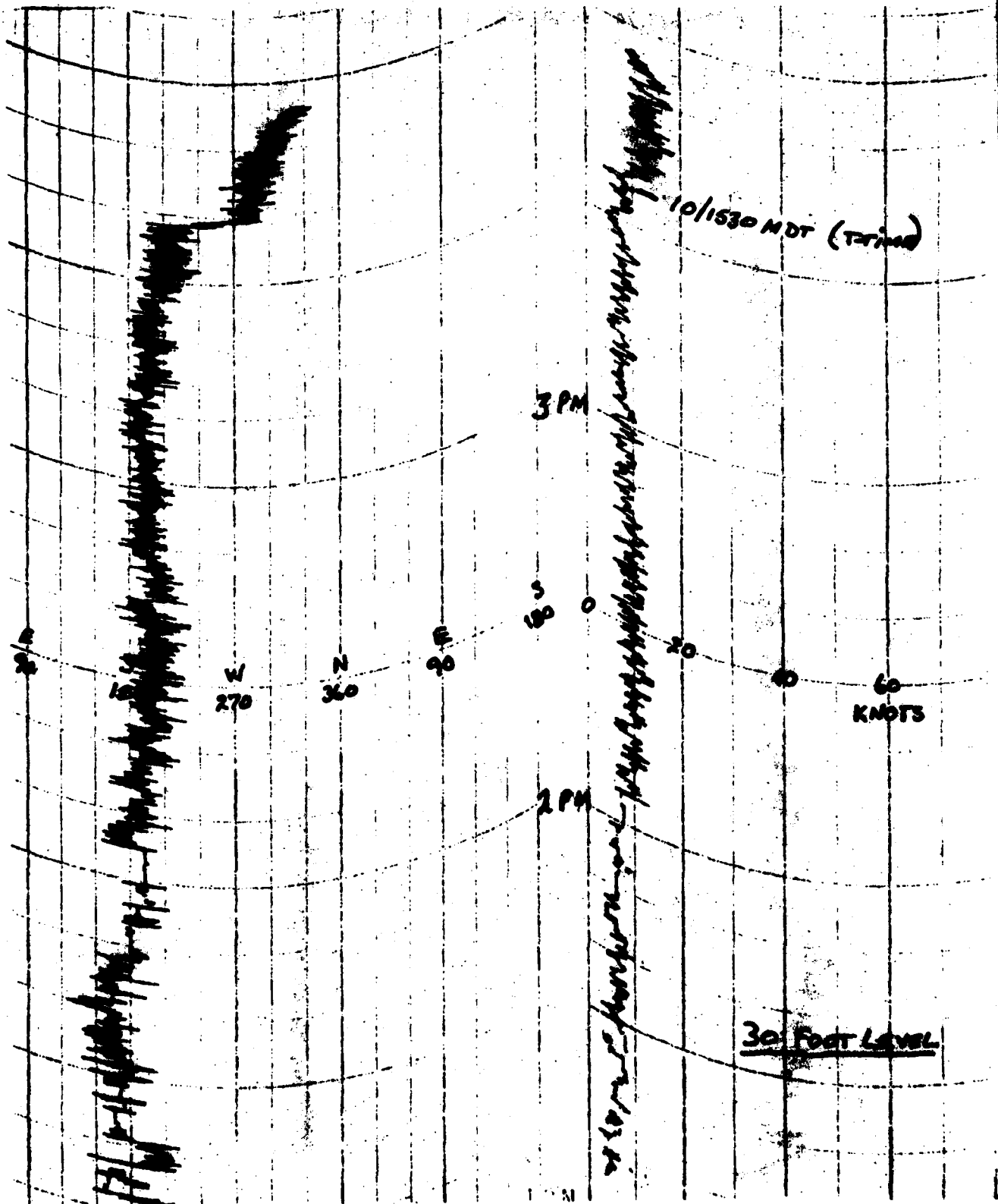


TABLE 3

ANEMOMETER DATA BY FOOT LEVEL
OF 200 METER TOWER

X=519,823.74 Y=489,901.20 H=4132.51 (BASE)

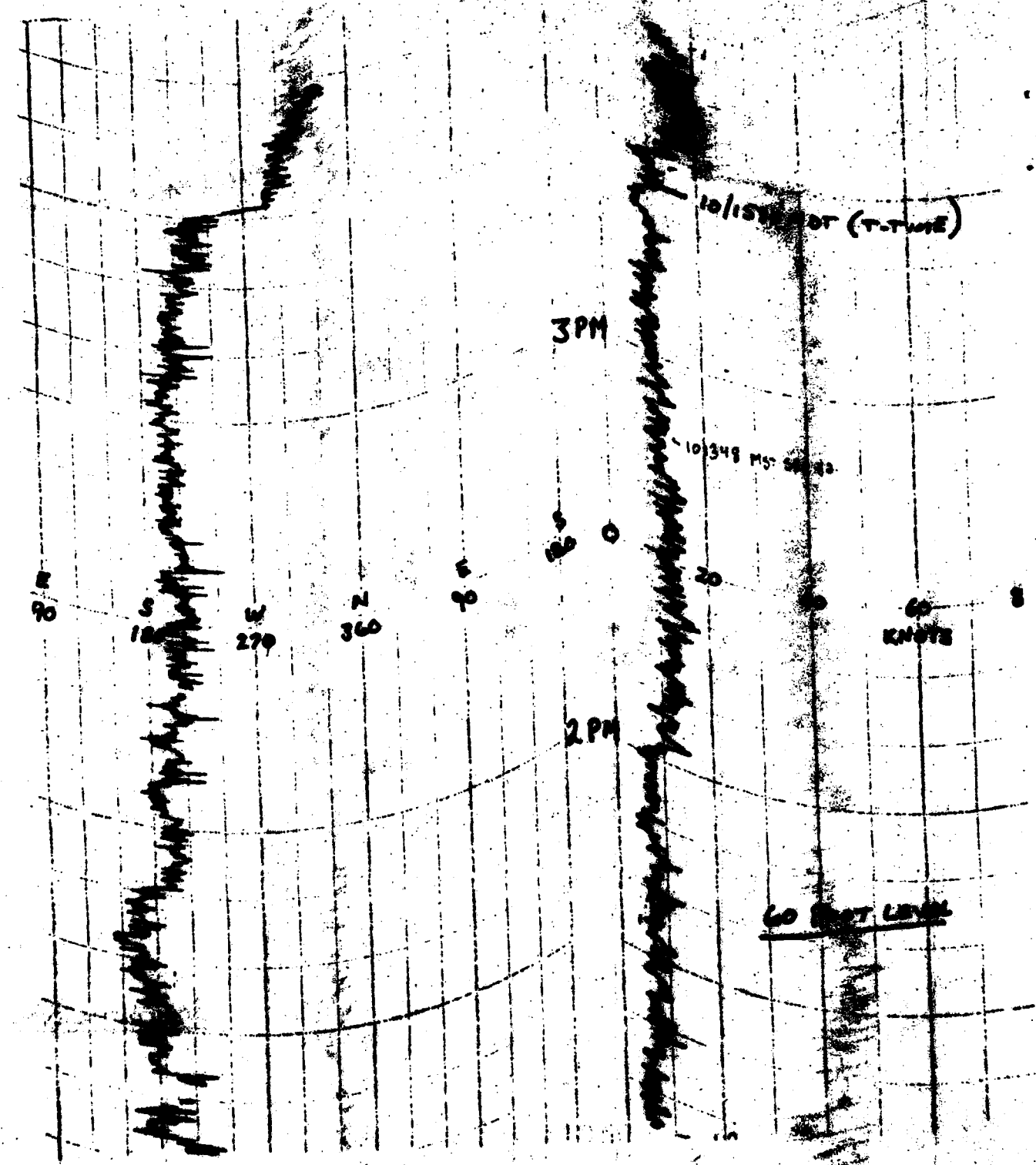


TABLE 4

ANEMOMETER DATA 90 FOOT LEVEL OF
30 METER TOWER

X=519,923.74 Y=489,901.20 H=4132.51 (BASE)

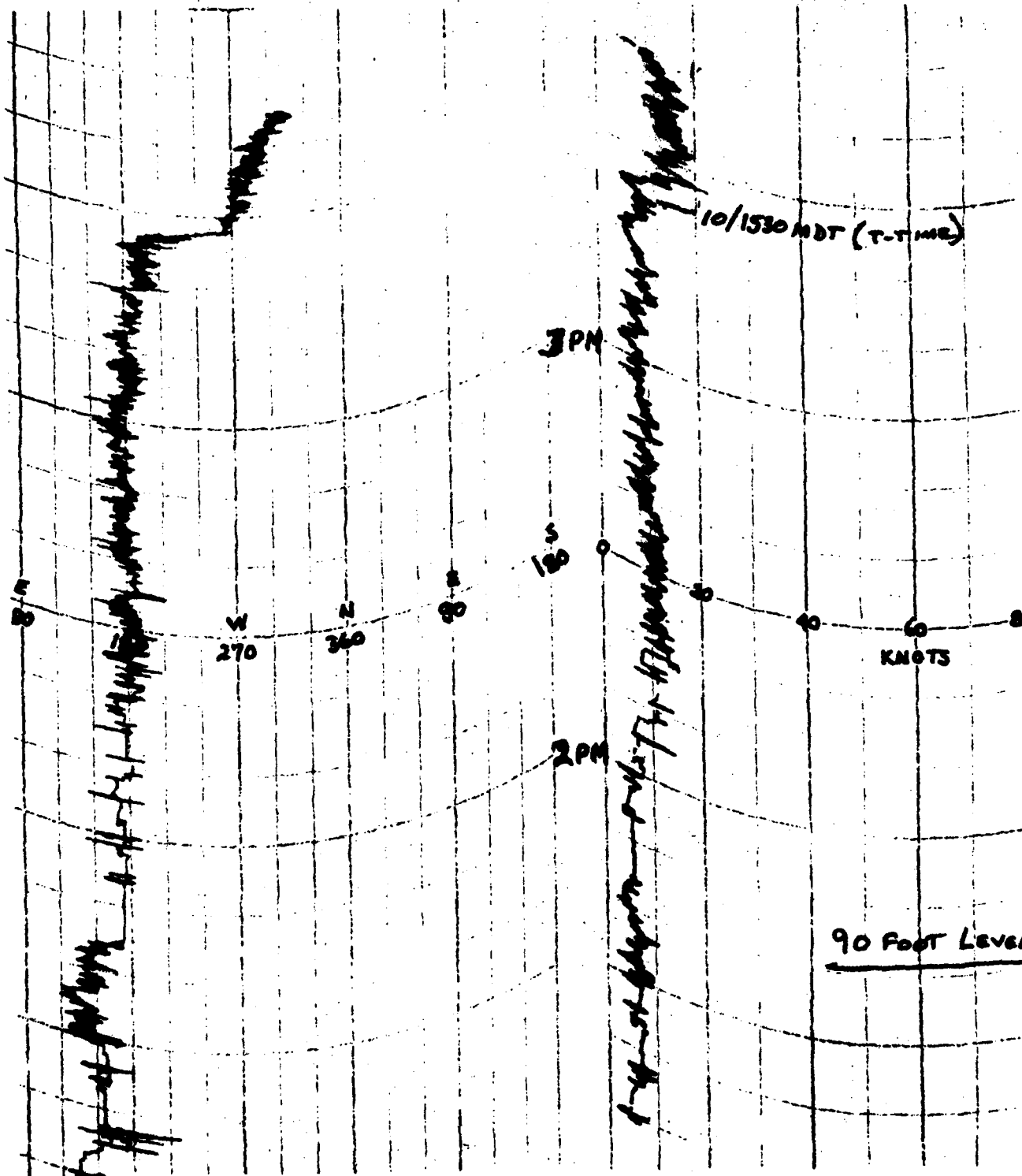


TABLE 5

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 10 Sep 82

SITE: MAL

TIME: 1535 MDT

WSTM COORDINATES:

X= 509,421.05

Y= 495,563.18

H= 4,126.80

<u>LAYER MIDPOINT METERS AGL</u>	<u>DIRECTION DEGREES</u>	<u>SPEED KNOTS</u>
SURFACE	220	10
150	259	16
210	262	17
270	260	16
330	258	16
390	255	14
500	251	15
650	256	16
800	262	17
950	Balloon lost in clouds	
1150		
1350		
1550		
1750		
2000		

TABLE 6

AIMING AND T-TIME COMPUTER MET MESSAGES

LANA 1230 MDT
METCM1331062
101850127873

RITA 1330 MDT
METCM1332062
101950128872

00320003 30000873
01351006 29760863
02329008 29470838
03344007 29150800
04440009 28790754
05425010 28530711
06461013 28160669

00302008 30150872
01265012 29820862
02295012 29500838
03323010 29180800
04384010 28870754
05394014 28540710
06412016 28180669

LANA 1400 MDT
METCM1331062
102000127873

RITA 1530 MDT
METCM1332062
102150128871

00320003 30370873
01357008 29890863
02328010 29600838
03379007 29210800
04431012 28900755
05429014 28560711
06415016 28230670

00320005 29990871
01340013 29860861
02342018 29610837
03364019 29240799
04384019 28870753
05392016 28480710
06346013 28160668

STATION ALTITUDE 4173.4 FEET MSL
 10 SEP. 62 1230 HRS MDT
 ASCENSION NO. 5

SIGNIFICANT LEVEL DATA
 LANA
 TABLE 7

GEODETIC COORDINATES
 33.13510 LAT DEG
 106.15446 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
872.6	4173.4	24.4	65.0
870.8	4239.5	23.2	65.0
850.0	4930.5	20.3	68.0
754.8	8263.4	12.8	84.0
721.2	9521.5	11.9	70.0
700.0	10340.9	9.6	70.0
691.5	10674.5	8.7	85.0
664.9	11740.6	7.0	78.0
630.1	13187.0	3.3	95.0
598.6	14542.2	.8	82.0

STATION ALTITUDE 9173.44 FEET MSL
 10 SEP. 62
 ASCENSION NO. 5

UPPER AIR DATA
 2530320085
 LANA
 TABLE 8

GEODETIC COORDINATES
 33.13510 LAT DEG
 106.15446 LON DEG

GEOMETRIC ALTITUDE MFL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
9173.4	872.8	29.4	65.0	1013.0	674.9	186.0	2.9	1.000311
9300.0	862.9	28.1	66.1	1010.2	672.0	181.3	3.7	1.000302
9400.0	847.9	28.1	68.3	999.9	669.6	182.5	5.0	1.000294
9500.0	832.9	19.0	70.7	986.1	668.3	183.2	6.3	1.000289
9600.0	818.2	17.9	73.1	972.6	666.9	184.7	7.4	1.000284
9700.0	803.8	16.8	75.5	959.2	665.6	186.7	7.0	1.000279
9800.0	789.6	15.6	77.9	946.1	664.3	209.9	6.9	1.000274
9900.0	775.6	14.5	80.3	933.2	662.9	230.0	7.2	1.000269
10000.0	761.9	13.4	82.7	920.5	661.8	248.8	8.3	1.000264
10100.0	748.4	12.6	81.4	906.8	660.6	244.2	9.1	1.000257
10200.0	734.9	12.3	75.8	892.0	660.0	242.8	9.7	1.000249
10300.0	721.6	11.9	70.2	877.5	659.5	239.8	9.7	1.000241
10400.0	708.7	10.7	78.0	865.7	657.9	241.6	10.1	1.000235
10500.0	695.9	9.3	77.2	854.2	656.3	248.5	10.9	1.000231
10600.0	683.3	8.2	82.9	841.4	655.1	253.9	11.9	1.000231
10700.0	670.8	7.4	79.6	829.2	654.0	258.2	12.9	1.000224
10800.0	658.5	6.3	81.0	817.2	652.7	262.9	12.8	1.000220
10900.0	646.4	5.1	86.9	805.8	651.3	267.7	12.5	1.000217
11000.0	634.5	3.8	92.8	794.6	649.7	268.5	12.0	1.000214
11100.0	622.7	2.7	92.8	783.1	649.4			1.000209
11200.0	611.1	1.8	87.2	771.4	647.2			1.000202
11300.0	599.7	.9	82.4	759.9	646.8			1.000196

921421
 18 DEC 62
 106.15446

STATION ALTITUDE 9173.4 FEET MSL
 30 SEP. 62 1330 MDT
 ASCENSION NO. 5

HANDATORY LEVELS
 2530320005
 LANA
 TABLE 9

GEODETIC COORDINATES
 33.13510 LAT DEG
 106.15446 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
		AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	9274.	20.3	14.2	69.	182.3	4.8
800.0	6658.	16.5	12.3	76.	200.3	6.9
750.0	8433.	12.7	9.7	82.	244.3	9.0
700.0	10331.	9.8	4.6	70.	246.3	10.6
650.0	12340.	5.4	3.2	85.	266.5	12.6
600.0	14473.	.9	-1.7	83.		

STATION ALTITUDE 4186.74 FEET MSL
 10 SEP. 62
 ASCENSION NO. 1330 HRS MDT

UPPER AIR DATA
 2530210004
 RITA
 TABLE 11

GEODEIC COORDINATES
 35.18295 LAT DEG
 106.15114 LON DEG

GEOMETRIC ALTITUDE MFL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (DEGREES(TN))	SPEED KNOTS	INDEX OF REFRACTION
4186.7	872.0	25.8	56.0	1007.9	676.3	170.0	8.0	1.000304
4500.0	862.5	22.9	62.5	1009.3	672.2	170.7	8.3	1.000298
5000.0	847.6	20.5	68.0	998.2	670.0	171.6	8.9	1.000295
5500.0	832.7	19.2	74.2	985.0	668.6	172.4	9.5	1.000293
6000.0	818.1	17.8	80.4	972.1	667.1	173.2	10.1	1.000290
6500.0	803.8	16.5	86.2	959.3	665.6	180.5	10.1	1.000287
7000.0	789.5	15.5	88.2	945.8	664.3	190.6	10.2	1.000282
7500.0	775.2	14.5	90.3	932.5	663.1	202.9	9.8	1.000276
8000.0	761.7	13.6	89.6	918.9	662.0	215.1	10.0	1.000269
8500.0	748.1	13.7	73.8	903.2	661.8	215.1	10.4	1.000255
9000.0	734.7	13.3	65.4	889.0	661.8	216.1	11.6	1.000244
9500.0	721.5	11.9	69.0	877.3	659.4	216.3	14.1	1.000240
10000.0	708.6	10.5	72.6	865.9	657.8	221.1	14.9	1.000236
10500.0	695.7	9.3	76.1	854.0	656.3	226.1	15.3	1.000233
11000.0	682.8	8.3	79.3	841.3	655.2	230.5	14.6	1.000229
11500.0	670.3	7.3	82.6	828.9	654.0	233.0	14.5	1.000225
12000.0	658.3	6.3	85.9	816.6	652.8	233.5	14.7	1.000222
12500.0	646.2	5.4	89.1	804.3	651.7	231.1	14.5	1.000218
13000.0	634.4	4.4	92.4	792.6	650.5	227.4	14.4	1.000215
13500.0	622.6	3.4	92.7	780.9	649.3	221.1	14.4	1.000210
14000.0	611.1	2.4	92.4	769.4	648.0			1.000205
14500.0	599.7	1.4	92.1	758.0	646.8			1.000200

WRENN
 10 SEP 62
 DIVISION

STATION ALTITUDE 9106.79 FEET MSL
 30 SEP. 82
 RECEPTION NO. 9

MANDATORY LEVELS
 2330210664
 RITA
 TABLE 12

GEODETIC COORDINATES
 33.18295 LAT DEG
 106.15114 LON DEG

PRESSURE GEOPOTENTIAL MILLIBARS	FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS
800.0	9915.	20.7	14.4	171.5	8.8
800.0	6627.	16.2	14.0	183.1	10.1
750.0	8424.	13.7	9.6	214.8	10.3
700.0	10325.	9.6	5.4	224.5	15.3
650.0	12334.	5.7	3.9	232.0	14.6
600.0	14472.	1.4	.3		

Vertical
 10 7
 1214

STATION ALTITUDE 4173.44 FEET MSL
 10 SEP. 62
 ASCENSION NO. 6 1400 HRS MDT

SIGNIFICANT WIND DATA
 2530320000
 LANA
 TABLE 13

GEODETIC COORDINATES
 33-13510 LAT DEG
 106-15446 LON DEG

PRESSURE GEODETIC MILLIBARS MSL FEET	TEMPERATURE AIR DEGREE DEGREES CENTIGRADE	PERCENT
872.7 4173.4	26.5 21.3	73.0
867.6 4343.1	23.3 15.9	63.0
856.6 4930.4	21.7 14.8	65.0
826.7 5721.6	19.5 14.3	72.0
786.7 7046.9	15.5 12.4	82.0
766.2 7781.7	14.3 11.1	81.0
751.7 8366.0	14.5 8.5	87.0
700.6 10352.7	9.9 4.9	71.0
676.7 11197.1	8.9 5.6	80.0
660.7 11927.6	6.9 2.6	74.0
634.7 13010.7	5.0 1.7	79.0
608.3 14496.6	.5 -.1	96.0

STATION ALTITUDE 4173.44
 10 SEP. 62
 ASCENSION NO. 6

STATION ALTITUDE 4173.44 FEET MSL
 10 SEP. 62
 ASCENSION NO. 6

UPPER AIR DATA
 2530320006
 LANA
 TABLE 14

GEODETIC COORDINATES
 33.13510 LAT DEG
 106.15446 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE WET POINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
4173.4	872.7	26.5	21.3	73.0	1003.4	674.1	180.0	2.9	1.000331
4000.0	862.9	22.9	15.6	63.5	1007.5	672.9	189.9	3.9	1.000301
3000.0	847.9	21.5	14.8	65.6	994.9	671.3	189.0	5.4	1.000295
2500.0	833.2	20.1	14.5	70.0	982.3	669.7	191.2	7.0	1.000292
2000.0	818.6	18.7	14.0	74.1	970.0	669.0	193.1	8.4	1.000287
1800.0	804.2	17.2	13.3	77.9	958.1	668.2	200.6	7.5	1.000282
1600.0	790.8	15.6	12.5	81.6	946.4	664.4	225.7	7.6	1.000277
1500.0	776.8	14.8	11.6	81.4	932.7	663.2	230.6	9.0	1.000270
1400.0	762.2	14.4	10.2	75.9	917.8	652.6	241.4	10.5	1.000262
1300.0	748.6	14.2	8.2	67.2	902.4	662.3	240.7	11.9	1.000251
1200.0	735.2	13.1	7.4	68.2	890.1	660.8	240.8	12.9	1.000246
1100.0	722.0	11.9	6.5	69.3	877.9	659.4	241.0	13.7	1.000241
1000.0	709.0	10.7	5.5	70.3	865.9	658.0	240.4	14.4	1.000236
900.0	696.2	9.7	5.0	72.6	853.3	656.8	239.6	15.0	1.000232
800.0	683.6	9.1	5.5	77.9	839.4	656.2	237.1	15.0	1.000230
700.0	671.2	8.1	4.4	77.5	827.5	654.9	234.5	15.0	1.000224
600.0	658.9	6.8	2.5	74.3	816.6	653.2	234.3	14.2	1.000217
500.0	646.8	5.9	2.1	76.6	804.1	652.1	234.4	13.4	1.000214
400.0	635.0	5.0	1.7	79.0	791.9	651.1	235.4	13.1	1.000210
300.0	623.2	3.5	1.2	84.6	781.5	649.3			1.000207
200.0	611.6	2.0	.6	90.3	771.3	647.5			1.000204

STATION ALTITUDE 4173.00 FEET MSL
 20 SEP. 82
 ASCENSION NO. 6

MANDATORY LEVELS
 2530320000
 LANA
 TABLE 15

GEODETIC COORDINATES
 33.13510 LAT DEG
 106.15046 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR	DEWPOINT	PERCENT	DIRECTION	SPEED	KNOTS
		DEGREES	CENTIGRADE		(TN)		
850.0	4927.	21.7	14.8	65.	166.5	5.2	
800.0	6643.	16.7	13.0	79.	213.7	7.3	
750.0	8442.	14.4	8.3	67.	240.8	11.8	
700.0	10343.	9.9	4.9	71.	239.8	14.8	
650.0	12356.	6.1	2.2	76.	234.4	13.6	

STATION ALTITUDE 4186.74 FEET MSL
 10 SEP. 82 1530 HRS MDT
 ASCENSION NO. 5

SIGNIFICANT LEVEL DATA
 2530210005
 RITA
 TABLE 16

GEODETIC COORDINATES
 33.18295 LAT DEG
 106.15114 LON DEG

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
871.1 4186.7	24.0 16.8	64.0
850.0 4090.2	21.5 15.1	67.0
823.8 5781.6	19.6 15.0	75.0
798.8 6935.0	16.1 13.9	87.0
719.8 9548.9	11.2 9.3	88.0
700.0 10313.0	8.5 7.4	93.0
674.8 11310.4	7.4 6.5	94.0
657.2 12026.0	6.0 5.3	95.0
630.8 13130.2	4.5 3.8	95.0
605.0 14246.3	2.0 1.1	94.0
595.6 14662.5	1.5 .6	94.0

STATION ALTITUDE 9100.70 FEET MSL
 10 SEP. 52
 1530 HRS MDT
 AIRCRAFT NO. 5

UPPER AIR DATA
 253021005
 RITA
 TABLE 17

GEODETIC COORDINATES
 33.10295 LAT DEG
 106.15114 LON DEG

GEOMETRIC ALTITUDE	TEMPERATURE AIR	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
9100.7	29.0	65.0	1012.0	674.4	180.0	9.9	1.000308
8800.0	28.9	65.3	1005.0	673.0	185.4	11.1	1.000303
8500.0	28.7	68.0	974.2	671.0	192.0	13.1	1.000297
8200.0	29.2	72.5	900.3	669.9	196.7	15.3	1.000294
7900.0	18.9	77.3	867.3	668.4	200.3	17.5	1.000291
7600.0	17.4	82.5	855.4	666.7	203.6	18.4	1.000287
7300.0	16.0	87.0	843.4	665.8	207.0	18.5	1.000282
7000.0	15.0	87.2	829.9	663.8	211.3	18.5	1.000275
6700.0	14.1	87.4	816.5	662.0	214.1	18.6	1.000269
6400.0	13.2	87.6	803.4	661.4	216.5	18.6	1.000263
6100.0	12.2	87.8	790.4	660.3	217.8	18.5	1.000257
5800.0	11.3	88.0	777.7	659.1	218.8	18.1	1.000251
5500.0	9.6	91.0	667.3	657.0	217.7	16.4	1.000245
5200.0	8.3	93.2	855.7	656.4	216.3	16.8	1.000240
4900.0	7.7	93.7	841.9	654.7	207.0	15.4	1.000235
4600.0	7.0	94.3	828.7	653.6	195.0	12.5	1.000230
4300.0	6.1	95.0	816.6	652.6	189.7	13.8	1.000225
4000.0	5.0	95.0	803.7	651.0	184.0	15.6	1.000221
3700.0	4.7	95.0	790.9	649.9	184.2	17.3	1.000216
3400.0	3.7	95.7	779.3	649.7	186.2	18.0	1.000211
3100.0	2.9	96.2	766.2	649.3			1.000206
2800.0	1.7	96.6	756.4	647.2			1.000201

REVISION NO. 1
 DATE 11/52
 BY 111

STATION ALTITUDE 9186.74 FEET MSL
 10 SEP. 62
 ASCENSION NO. 5

MANDATORY LEVELS
 2530210005
 RITA
 TABLE 18

GEOGETIC COORDINATES
 33.18295 LAT DEG
 106.15114 LON DEG

PRESSURE GEOPOTENTIAL MILLIBARS	FEET	AIR TEMPERATURE DEGREES CENTIGRADE	TEMPERATURE DEWPOINT PERCENT	HUMIDITY PERCENT	WIND DATA DIRECTION SPEED (KNOTS)
850.0	4887.	21.5	15.1	67.	190.7
800.0	6605.	17.1	14.3	84.	204.7
750.0	8406.	13.3	11.3	88.	216.2
700.0	10304.	8.5	7.4	93.	216.9
650.0	12311.	5.6	4.9	95.	185.6
600.0	14451.	1.7	.9	94.	15.0

END

DATE
FILMED

1

DTIC