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February 1969

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METEOROLOGICAL DATA REPORT

NIKE-HYDAC STV 75, SR-06
(14 January 1969)

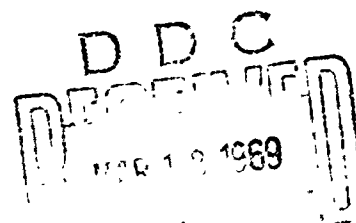
BY

HAROLD M. RICHART

ATMOSPHERIC SCIENCES OFFICE
WHITE SANDS MISSILE RANGE, NEW MEXICO

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METEOROLOGICAL DATA REPORT

NIKE-HYDAC STV 75, SR-06
(14 January 1969)

By

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February 1969

DA Task 1T665702D127-02

ATMOSPHERIC SCIENCES OFFICE
WHITE SANDS MISSILE RANGE, NEW MEXICO

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ABSTRACT

Meteorological data gathered for the launching of Nike-Hydac STV 75, SR-06, are presented for the Space and Missile Systems Organization, AFMDC, Holloman Air Force Base, New Mexico, and for ballistic studies. The data appear, along with calculated ballistic data, in tabular form.

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INTRODUCTION

Nike-Hydac STV 75, SR-06, was launched from Launch Complex 33, L-314, White Sands Missile Range (WSMR), New Mexico, at 0630 hours MST, 14 January 1969.

Meteorological data used in conjunction with theoretical calculations to predict rocket impact were collected by the Meteorological Support Technical Area, Atmospheric Sciences Office (ASO), WSMR, New Mexico. The Ballistics Meteorologist for this firing was Harold M. Richart.

DISCUSSION

Wind data for the first 216 feet above the surface were obtained from a system composed of five Aerovanes mounted on a 200-foot tower and cabled to component wind indicators.

From 216 to 4,160 feet above the surface, wind data were obtained from T-9 Radar-observed balloon ascents.

Temperature, pressure and humidity data, along with upper wind data from 4,160 to 73,300 feet above the surface, were obtained from standard rawinsonde observations.

Mean wind component values in each ballistic zone were determined from vertical cross sections by the equal-area method.

Theoretical rocket performance values and ballistic factors as a function of altitude were provided by ASO and are the basis for data appearing in Table I.

PAYLOAD		215	Pounds
CORIOLIS DISPLACEMENT	WEST	4.9	Miles
SECOND-STAGE IGNITION	TIME	20.0	Seconds
	ALTITUDE	35,760	Feet MSL
PEAK	TIME	236	Seconds
	ALTITUDE	716,000	Feet MSL
UNIT WIND EFFECT	HEAD	2.158	Miles/MPH
	CROSS	2.244	Miles/MPH
	TAIL	2.167	Miles/MPH
TOWER TILT EFFECT		14.53	Miles/Degree

TABLE I. THEORETICAL ROCKET PERFORMANCE VALUES
NIKE-HYDAC STV 75, SR-06

LAYERS IN FEET ABOVE GROUND	BALLISTIC FACTORS
15- 60	.135
60-108	.075
108-148	.070
148-184	.031
184-216	.029
216-300	.052
300-400	.048
400-600	.082
600-800	.058

LAYERS IN FEET ABOVE GROUND	BALLISTIC FACTORS
800- 1000	.039
1000- 1400	.071
1400- 2000	.065
2000- 2500	.031
2500- 3000	.027
3000- 3500	.010
3500- 4160	.009
4160-11000	-.024
11000-16000	-.018

LAYERS IN FEET ABOVE GROUND	BALLISTIC FACTORS
16000-21000	-.018
21000-26000	-.012
26000-31770	-.012
31770-36000	.132
36000-41000	.058
41000-46000	.032
46000-56000	.018
56000-66000	.011
66000-73300	.001

TABLE II. BALLISTIC FACTORS
NIKE-HYDAC STV 75, SR-06

AERO- VANE NO. *	MEAN WIND COMPONENTS IN MILES PER HOUR							
	1		2		3		4	
	0430 MST		0500 MST		0530 MST		0545 MST	
	N-S	E-W	N-S	E-W	N-S	E-W	N-S	E-W
1	1.0N	2.0W	3.5N	2.0W	3.0N	1.0W	0.0	1.0S
2	2.0	1.0	7.0	1.5E	7.0	2.0E	3.0N	2.5N
3	4.0	0.0	11.0	2.5	11.0	2.5	5.5	4.0
4	5.0	2.0E	8.0	3.5	7.0	2.5	5.5	1.5
5	7.0	3.0	8.0	3.5	7.0	2.0	5.0	2.0

AERO- VANE NO. *	MEAN WIND COMPONENTS IN MILES PER HOUR							
	6		7		8			
	0610 MST		0624 MST		0630 MST			
	N-S	E-W	N-S	E-W	N-S	E-W	N-S	E-W
1	1.5S	1.5E	1.0S	0.0	0.0	0.0		
2	3.0N	2.5	2.0N	2.5E	3.0N	2.0E		
3	5.5	1.5	4.5	4.0	5.5	4.0		
4	3.5	1.5	5.0	4.0	5.5	4.0		
5	3.5	1.5	5.0	4.0	6.0	4.0		

TABLE III. ANEMOMETER WIND SPEED AND DIRECTION
NIKE-HYDAC STV 75, SR-06

* Heights corresponding to Aerovane Numbers: 1 = 35 Feet 3 = 128 Feet 5 = 200 Feet
2 = 88 Feet 4 = 168 Feet

LAYERS IN FEET ABOVE GROUND	MEAN WIND COMPONENTS IN MILES PER HOUR									
	1		2		3		4		5	
	0430 MST		0500 MST		0530 MST		0545 MST		0600 MST	
	N-S	E-W	N-S	E-W	N-S	E-W	N-S	E-W	N-S	E-W
216- 300	7.0N	2.5E	6.5N	2.5E	5.0N	0.5E	5.0N	2.0E	0.0	3.0E
300- 400	6.0	2.0	4.0	2.5	3.5	1.0	3.5	1.5	0.5S	1.5
400- 600	4.5	0.0	2.0	0.5	2.0	1.0W	1.5	1.0	1.0	1.0
600- 800	2.0	0.0	3.0	2.0W	0.5	2.0	4.5	2.0W	1.0N	1.0
800-1000	0.5S	0.0	3.0	1.5	3.0	3.0	6.0	4.0	2.5	1.0W
1000-1400	4.0N	0.5E	6.0	2.0	2.5	4.0	5.5	0.0	3.5	2.0
1400-2000	6.0	1.5	5.5	1.5	5.0	2.5	3.0	5.0W	6.0	3.0
2000-2500	4.0	7.0W	1.0S	9.5	1.5	10.0	6.0	13.5	0.5	13.0
2500-3000	3.0S	14.5	4.0	16.0	2.5S	16.0	3.0	15.0	7.0S	13.5
3000-3500	3.5	16.0	4.0	16.5	5.0	18.5	4.5	17.0	9.5	14.5
3500-1160	6.0	18.5	7.0	18.0	9.0	19.5	8.0	18.0	14.0	18.5

TABLE IV. PILOT-BALLOON-MEASURED WIND DATA
NIKE-HYDAC STV 75, SR-06

LAYERS IN FEET ABOVE GROUND	MEAN WIND COMPONENTS IN MILES PER HOUR									
	6		7		8					
	0610 MST		0624 MST		0630 MST					
	N-S	E-W	N-S	E-W	N-S	E-W	N-S	E-W	N-S	E-W
216- 300	1.5N	2.5E	2.5N	0.5E	4.0N	3.0E				
300- 400	1.0S	2.0	0.0	1.0W	2.5	1.5				
400- 600	2.0N	0.0	2.0S	1.0E	0.5S	1.5				
600- 800	4.5	3.0W	1.0N	1.5W	3.0N	1.5W				
800-1000	6.0	5.0	2.5	1.0	3.0	2.0				
1000-1400	3.0	4.0	1.5	4.5	3.5	2.0				
1400-2000	2.5	6.5	2.5	7.5	3.5	3.5				
2000-2500	1.5	8.5	1.0	8.5	3.0	6.0				
2500-3000	3.5S	15.0	5.0S	13.5	6.5S	15.0				
3000-3500	7.0	14.0	7.5	14.0	11.0	15.0				
3500-4160	11.5	18.5	14.0	17.5	11.5	16.0				

TABLE IV. PILOT-BALLOON-MEASURED WIND DATA (CONT)
NIKE-HYDAC STV 75, SR-06

LAYERS IN FEET ABOVE GROUND	MEAN WIND COMPONENTS IN KNOTS					
	1		2			
	0330 MST		0630 MST			
	N-S	E-W	N-S	E-W	N-S	E-W
4160-11000	16.0S	19.0W	15.5S	18.5W		
11000-16000	18.5	22.0	9.5	26.0		
16000-21000	25.5	30.5	10.0	28.0		
21000-26000	25.0	30.0	10.5	29.0		
26000-31770	23.0	40.0	5.0	28.5		
31770-36000	20.5	35.5	5.0	28.5		
36000-41000	7.0	39.5	0.0	43.0		
41000-46000	0.0	45.0	0.0	43.0		
46000-56000	0.0	33.0	0.0	29.0		
56000-66000	8.5N	14.5	3.5N	19.5		
66000-73300	0.0	15.0	0.0	23.0		

TABLE V. RAWINSONDE-MEASURED WIND DATA
NIKE-HYDAC STV 75, SR-06

STATION ALTITUDE 3989.0 FEET MSL
14 JAN. 69 0330 HRS MST
ASCENSION NO. 26

SIGNIFICANT LEVEL DATA
0459003902
WHITE SANDS SITE

MSTM SITE COORDINATES
E 488,580 FEET
N 185,045 FEET

TABLE VI

PRESSURE HILLIBARS MSL FEET	GEOMETRIC ALTITUDE	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
879.4	2989.0	3.8	-0.6	73.0
869.0	4312.4	13.4	6.8	64.0
865.0	4440.5	15.3	6.6	56.0
859.0	4634.3	15.1	0.9	38.0
811.0	6226.8	13.1	-2.8	33.0
708.0	9914.0	3.8	-5.4	51.0
681.0	10948.1	1.8	-15.7	26.0
665.0	11576.4	0.5	-12.2	38.0
652.0	12055.8	-0.6	-20.9	20.0
633.0	12870.9	-1.5	-16.1	32.0
623.0	13286.7	-3.0	-7.5	71.0
611.0	13792.5	-3.8	-15.2	41.0
601.0	14220.4	-4.7	-5.6	94.0
549.0	16546.7	-8.6	-13.3	69.0
495.0	19161.0	-13.8	-23.0	46.0
445.0	21793.0	-19.6	-22.4	79.0
401.0	24314.9	-24.1	-31.5	51.0
300.0	31024.1	-42.4	-49.2	48.0
255.0	34563.1	-52.2	0.	-0. **
224.0	37284.0	-58.8	0.	-0. **
220.0	37659.1	-55.9	0.	-0. **
214.0	38242.4	-53.1	0.	-0. **
181.0	41794.8	-53.5	0.	-0. **
121.0	50067.6	-67.1	0.	-0. **
100.0	53825.5	-71.0	0.	-0. **
82.0	57667.3	-74.6	0.	-0. **
62.0	63065.5	-72.2	0.	-0. **
59.0	64037.0	-55.0	0.	-0. **
46.0	68962.4	-68.1	0.	-0. **
26.0	80500.9	-60.2	0.	-0. **

** RELATIVE HUMIDITY NOT SUPPLIED. ZERO VALUE ASSUMED FOR COMPUTATIONS.

STATION ALTITUDE 3989.0 FEET MSL
14 JAN. 69 0330 HRS MST
ASCENSION NO. 26

SIGNIFICANT LEVEL DATA
0459003902
WHITE SANDS SITE

WSTM SITE COORDINATES
E 488,580 FEET
N 185,045 FEET

TABLE VI (Cont)

PRESSURE GEOMETRIC		TEMPERATURE		REL. HUM.
ALTITUDE	AIR	DEWPOINT	PERCENT	
MSL FEET	DEGREES	CENTIGRADE		
13.0 94957.4	-55.5	0.	-0.	**
12.0 96654.3	-53.7	0.	-0.	**

** RELATIVE HUMIDITY NOT SUPPLIED. ZERO VALUE ASSUMED FOR COMPUTATIONS.

STATION ALTITUDE 3989.0 FEET MSL
14 JAN. 69 0330 HRS MST
ASCENSION NO. 26

UPPER AIR DATA
0459003902
WHITE SANDS SITE

WSTM SITE COORDINATES
E 488,580 FEET
N 185,045 FEET

TABLE VII

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
3589.0	879.4	3.8	-0.6	73.0	1103.5	648.8	0.	0.	0.	1.000275
4000.0	879.0	4.1	-0.3	72.7	1101.7	649.2	359.4	359.4	0.1	1.000275
4500.0	863.2	15.2	5.1	50.5	1038.8	662.5	331.7	331.7	2.3	1.000271
5000.0	847.7	14.6	0.1	36.9	1023.5	661.5	303.9	303.9	4.6	1.000256
5500.0	832.6	14.0	-1.1	35.3	1007.6	660.7	276.2	276.2	6.9	1.000250
6000.0	817.7	13.4	-2.3	33.7	991.9	659.9	248.4	248.4	9.2	1.000245
6500.0	802.9	12.4	-2.9	34.3	977.3	658.8	248.6	248.6	11.4	1.000241
7000.0	788.2	11.1	-3.1	36.8	963.7	657.3	248.9	248.9	13.6	1.000238
7500.0	773.8	9.9	-3.3	39.2	950.4	655.8	247.7	247.7	15.4	1.000234
8000.0	759.7	8.6	-3.7	41.7	937.2	654.4	246.4	246.4	17.2	1.000231
8500.0	745.9	7.4	-4.1	44.1	924.3	652.9	241.3	241.3	19.0	1.000228
9000.0	732.2	6.1	-4.5	46.5	911.5	651.4	236.1	236.1	20.8	1.000224
9500.0	718.9	4.8	-5.0	49.0	899.0	649.9	233.5	233.5	21.9	1.000221
10000.0	705.7	3.6	-6.1	48.9	886.5	648.5	231.2	231.2	23.0	1.000217
10500.0	692.6	2.7	-10.7	36.8	873.6	647.1	230.3	230.3	24.1	1.000208
11000.0	679.7	1.7	-15.4	27.0	860.7	645.9	230.1	230.1	25.1	1.000201
11500.0	666.9	0.7	-12.6	36.5	847.5	644.7	231.2	231.2	25.5	1.000201
12000.0	654.4	-0.4	-18.9	23.3	835.2	643.3	230.7	230.7	26.7	1.000193
12500.0	642.0	-1.1	-18.1	26.3	821.4	642.6	229.7	229.7	28.2	1.000191
13000.0	629.9	-2.0	-12.6	44.1	808.1	641.7	229.8	229.8	29.4	1.000192
13500.0	617.9	-3.3	-10.4	58.4	796.6	640.1	230.0	230.0	30.4	1.000192
14000.0	606.1	-4.2	-9.5	66.7	783.9	639.1	230.2	230.2	30.8	1.000190
14500.0	594.5	-5.2	-6.4	91.0	771.1	638.2	231.1	231.1	30.5	1.000192
15000.0	583.0	-6.0	-8.1	85.6	758.8	637.1	232.5	232.5	29.5	1.000187
15500.0	571.8	-6.8	-9.7	80.2	746.7	636.0	233.6	233.6	28.8	1.000182
16000.0	560.8	-7.7	-11.4	74.9	734.8	635.0	234.6	234.6	28.2	1.000177
16500.0	550.0	-8.5	-13.2	69.5	723.0	633.9	235.6	235.6	28.4	1.000173
17000.0	539.2	-9.5	-14.9	65.0	711.6	632.7	236.5	236.5	28.6	1.000169
17500.0	528.7	-10.5	-16.7	60.6	700.4	631.4	236.5	236.5	28.8	1.000165
18000.0	518.3	-11.5	-18.6	56.2	689.4	630.2	236.7	236.7	29.1	1.000161

STATION ALTITUDE 3989.0 FEET MSL
14 JAN. 69 0530 HRS MST
ASCENSION NO. 26

UPPER AIR DATA
0459003902
WHITE SANDS SITE

WSTM SITE COORDINATES
E 488,580 FEET
N 185,045 FEET

TABLE VII (Cont)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL-HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
18500.0	508.1	-12.5	-20.4	51.8	678.6	628.9	237.6	29.9	1.000158	
19000.0	498.2	-13.5	-22.4	47.4	667.9	627.7	238.5	30.8	1.000155	
19500.0	488.3	-14.5	-22.7	50.3	657.3	626.4	239.1	31.8	1.000152	
20000.0	478.5	-15.6	-22.4	56.5	646.9	625.1	239.5	33.7	1.000150	
20500.0	468.9	-16.8	-22.3	62.8	636.6	623.7	239.6	36.6	1.000148	
21000.0	459.5	-17.9	-22.3	69.1	626.6	622.4	239.1	38.7	1.000146	
21500.0	450.3	-19.0	-22.3	75.3	616.7	621.1	238.2	40.1	1.000143	
22000.0	441.2	-20.0	-23.1	76.7	606.7	619.8	237.4	41.7	1.000141	
22500.0	432.2	-20.9	-24.8	71.2	596.4	618.7	236.6	43.4	1.000138	
23000.0	423.4	-21.8	-26.6	65.6	586.4	617.6	235.6	43.3	1.000135	
23500.0	414.7	-22.6	-28.4	60.0	576.5	616.4	234.5	42.3	1.000132	
24000.0	406.2	-23.5	-30.3	54.5	566.8	615.3	233.8	41.2	1.000129	
24500.0	397.8	-24.6	-32.0	50.9	557.4	614.0	233.1	40.0	1.000127	
25000.0	389.3	-26.0	-33.3	50.7	548.5	612.5	233.1	37.6	1.000124	
25500.0	381.0	-27.3	-34.6	50.5	539.8	610.6	233.3	35.4	1.000122	
26000.0	372.8	-28.7	-36.0	50.2	531.2	608.9	234.9	35.3	1.000120	
26500.0	364.8	-30.1	-37.3	50.0	522.8	607.2	236.3	35.9	1.000118	
27000.0	357.0	-31.4	-38.6	49.8	514.5	605.5	236.9	37.8	1.000116	
27500.0	349.4	-32.8	-39.9	49.6	506.4	603.7	237.2	39.8	1.000114	
28000.0	341.9	-34.2	-41.3	49.4	498.4	602.0	237.2	41.8	1.000112	
28500.0	334.6	-35.5	-42.6	49.1	490.5	600.3	236.5	44.9	1.000110	
29000.0	327.4	-36.9	-43.9	48.9	482.8	598.6	235.5	48.4	1.000108	
29500.0	320.4	-38.2	-45.2	48.7	475.2	596.8	234.7	48.8	1.000107	
30000.0	313.6	-39.6	-46.5	48.5	467.8	595.1	233.8	49.0	1.000105	
30500.0	306.9	-41.0	-47.9	48.2	460.5	593.3	233.2	49.5	1.000103	
31000.0	300.3	-42.3	-49.2	48.0	453.3	591.6	232.6	50.1	1.000101	
31500.0	293.5	-43.7	-51.7	41.5**	445.7	589.8	231.7	48.4	1.000100	
32000.0	286.9	-45.1	-54.5	34.8**	438.2	588.0	230.7	46.1	1.000098	
32500.0	280.3	-46.5	-57.5	28.0**	430.9	586.2	229.7	44.7	1.000096	
33000.0	274.0	-47.9	-60.8	21.2**	423.7	584.4	228.6	43.9	1.000094	

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

STATION ALTITUDE 3989.0 FEET MSL
14 JAN. 69 0330 HRS MST
ASCENSION NO. 26

UPPER AIR DATA
0459003902
WHITE SANDS SITE

WSTM SITE COORDINATES
E 488,580 FEET
N 185,045 FEET

TABLE VI (Cont)

GEOMETRIC ALTITUDE MSL 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
33500.0	267.8	-49.3	14.4**	416.7	582.6	227.6	43.9	1.000093
34000.0	261.7	-50.6	7.6**	409.7	580.8	226.7	44.0	1.000091
34500.0	255.7	-52.0	0.9**	403.0	579.0	226.4	45.8	1.000090
35000.0	249.7	-53.3	-0.0**	395.7	577.4	226.6	46.8	1.000088
35500.0	243.9	-54.5	-0.0**	388.6	575.8	227.1	47.3	1.000087
36000.0	238.1	-55.7	-0.0**	381.5	574.2	228.0	46.9	1.000085
36500.0	232.5	-56.9	-0.0**	374.6	572.6	230.1	45.1	1.000083
37000.0	227.1	-58.1	-0.0**	367.9	571.0	233.5	41.8	1.000082
37500.0	221.7	-57.1	-0.0**	357.6	572.3	237.7	39.1	1.000080
38000.0	216.5	-54.3	-0.0**	344.6	576.1	242.5	36.9	1.000077
38500.0	211.4	-53.1	-0.0**	334.8	577.6	248.7	35.9	1.000075
39000.0	206.5	-53.2	-0.0**	327.1	577.5	255.6	35.6	1.000073
39500.0	201.7	-53.2	-0.0**	319.5	577.4	259.8	36.3	1.000071
40000.0	197.0	-53.3	-0.0**	312.2	577.3	263.3	37.2	1.000070
40500.0	192.4	-53.4	-0.0**	305.0	577.3	265.0	37.9	1.000068
41000.0	187.9	-53.4	-0.0**	297.9	577.2	266.6	38.5	1.000066
41500.0	183.5	-53.5	-0.0**	291.1	577.1	267.6	38.6	1.000065
42000.0	179.2	-53.8	-0.0**	284.7	576.6	268.5	38.6	1.000063
42500.0	174.9	-54.7	-0.0**	278.9	575.6	269.4	38.7	1.000062
43000.0	170.7	-55.5	-0.0**	273.2	574.5	269.8	39.0	1.000061
43500.0	166.6	-56.3	-0.0**	267.7	573.4	269.5	39.4	1.000060
44000.0	162.6	-57.1	-0.0**	262.2	572.3	268.6	40.2	1.000058
44500.0	158.7	-57.9	-0.0**	256.9	571.2	267.3	41.1	1.000057
45000.0	154.9	-58.8	-0.0**	251.7	570.1	267.2	42.6	1.000056
45500.0	151.1	-59.6	-0.0**	246.6	569.0	267.6	44.3	1.000055
46000.0	147.5	-60.4	-0.0**	241.6	567.9	268.7	46.9	1.000054
46500.0	143.9	-61.2	-0.0**	236.7	566.8	270.1	49.8	1.000053
47000.0	140.5	-62.1	-0.0**	231.9	565.7	271.5	51.5	1.000052
47500.0	137.1	-62.9	-0.0**	227.2	564.6	272.9	52.9	1.000051
48000.0	133.8	-63.7	-0.0**	222.6	563.5	273.7	53.3	1.000050

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

STATION ALTITUDE 3989.6 FEET MSL

14 JAN. 69

ASCENSION NO. 26

UPPER AIR DATA

0459003902

WHITE SANDS SITE

WSTM SITE COORDINATES

E 488,580 FEET

N 185,045 FEET

TABLE VII (Cont)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNUTS	KNUTS	DIRECTION DEGREES (TN)	SPEED KNUTS	
48500.0	130.6	-64.5	0.	-0. **	218.1	562.4		273.9	52.7	1.0000049
49000.0	127.5	-65.3	0.	-0. **	213.7	561.3		274.0	51.9	1.0000048
49500.0	124.4	-66.2	0.	-0. **	209.4	560.2		272.5	48.5	1.0000047
50000.0	121.4	-67.0	0.	-0. **	205.2	559.1		270.9	45.1	1.0000046
50500.0	118.4	-67.5	0.	-0. **	200.6	558.3		269.5	42.5	1.0000045
51000.0	115.4	-68.1	0.	-0. **	196.1	557.6		268.2	40.1	1.0000044
51500.0	112.5	-68.6	0.	-0. **	191.6	556.9		266.5	38.5	1.0000043
52000.0	109.7	-69.1	0.	-0. **	187.3	556.2		264.6	37.2	1.0000042
52500.0	107.0	-69.6	0.	-0. **	183.1	555.5		264.1	37.0	1.0000041
53000.0	104.3	-70.1	0.	-0. **	179.0	554.8		264.3	37.4	1.0000040
53500.0	101.7	-70.7	0.	-0. **	174.9	554.1		264.0	37.5	1.0000039
54000.0	99.1	-71.2	0.	-0. **	170.9	553.4		263.6	37.5	1.0000038
54500.0	96.6	-71.6	0.	-0. **	167.0	552.8		263.7	37.6	1.0000037
55000.0	94.1	-72.1	0.	-0. **	163.1	552.1		264.0	37.7	1.0000036
55500.0	91.7	-72.6	0.	-0. **	159.3	551.5		264.0	36.0	1.0000035
56000.0	89.4	-73.0	0.	-0. **	155.6	550.8		263.8	33.4	1.0000035
56500.0	87.1	-73.5	0.	-0. **	152.0	550.2		264.5	30.5	1.0000034
57000.0	84.9	-74.0	0.	-0. **	148.5	549.5		265.6	27.5	1.0000033
57500.0	82.7	-74.4	0.	-0. **	145.0	548.9		265.6	23.7	1.0000032
58000.0	80.6	-74.5	0.	-0. **	141.3	548.9		264.9	19.4	1.0000031
58500.0	78.5	-74.2	0.	-0. **	137.6	549.2		270.8	18.8	1.0000031
59000.0	76.5	-74.0	0.	-0. **	133.9	549.5		279.5	19.8	1.0000030
59500.0	74.6	-73.8	0.	-0. **	130.3	549.8		284.5	20.2	1.0000029
60000.0	72.7	-73.6	0.	-0. **	126.9	550.1		288.5	20.5	1.0000028
60500.0	70.8	-73.3	0.	-0. **	123.5	550.4		297.8	20.1	1.0000027
61000.0	69.0	-73.1	0.	-0. **	120.2	550.7		307.6	19.6	1.0000027
61500.0	67.2	-72.9	0.	-0. **	117.0	551.0		310.8	17.2	1.0000026
62000.0	65.5	-72.7	0.	-0. **	113.9	551.3		313.0	15.0	1.0000025
62500.0	63.8	-72.5	0.	-0. **	110.8	551.6		308.8	14.2	1.0000025
63000.0	62.2	-72.2	0.	-0. **	107.9	551.9		303.0	14.4	1.0000024

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

STATION ALTITUDE 3989.0 FEET MSL
14 JAN. 69 0330 HRS MST
ASCENSION NO. 26

UPPER AIR DATA
0459003902
WHITE SANDS SITE

WSYM SITE COORDINATES
E 488,580 FEET
N 185,045 FEET

TABLE VII (Cont)

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	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
63500.0	60.6	-70.8	0.	-0. **	104.4	553.9	292.9	17.2	1.000023
64000.0	59.1	-69.1	0.	-0. **	100.9	556.2	286.7	19.9	1.000022
64500.0	57.6	-68.9	0.	-0. **	98.3	556.5	285.8	22.6	1.000022
65000.0	56.2	-68.8	0.	-0. **	95.8	556.6	288.8	23.4	1.000021
65500.0	54.8	-68.7	0.	-0. **	93.4	556.7	294.8	22.7	1.000021
66000.0	53.4	-68.6	0.	-0. **	91.0	556.8	297.8	21.6	1.000020
66500.0	52.1	-68.5	0.	-0. **	88.7	557.0	299.3	20.4	1.000020
67000.0	50.8	-68.5	0.	-0. **	86.5	557.1	297.2	17.4	1.000019
67500.0	49.5	-68.4	0.	-0. **	84.3	557.2	294.3	14.0	1.000019
68000.0	48.3	-68.3	0.	-0. **	82.1	557.3	302.5	10.4	1.000018
68500.0	47.1	-68.2	0.	-0. **	80.0	557.5	310.7	6.8	1.000018
69000.0	45.9	-68.1	0.	-0. **	78.0	557.6	296.6	6.8	1.000017
69500.0	44.8	-67.7	0.	-0. **	76.0	558.1	283.0	6.8	1.000017
70000.0	43.7	-67.4	0.	-0. **	74.0	558.5	276.7	8.9	1.000016
70500.0	42.6	-67.0	0.	-0. **	72.1	559.0	270.1	11.3	1.000016
71000.0	41.6	-66.7	0.	-0. **	70.2	559.5	261.7	17.7	1.000016
71500.0	40.6	-66.4	0.	-0. **	68.4	559.9	254.5	23.4	1.000015
72000.0	39.6	-66.0	0.	-0. **	66.6	560.4	257.8	23.0	1.000015
72500.0	38.6	-65.7	0.	-0. **	64.9	560.9	261.3	22.5	1.000014
73000.0	37.7	-65.3	0.	-0. **	63.2	561.3	265.6	21.3	1.000014
73500.0	36.8	-65.0	0.	-0. **	61.5	561.8	270.4	20.1	1.000014
74000.0	35.9	-64.7	0.	-0. **	59.9	562.2	278.5	18.9	1.000013
74500.0	35.0	-64.3	0.	-0. **	58.4	562.7	285.4	17.9	1.000013
75000.0	34.1	-64.0	0.	-0. **	56.8	563.2	285.5	18.0	1.000013
75500.0	33.3	-63.6	0.	-0. **	55.4	563.6	284.9	18.3	1.000012
76000.0	32.5	-63.3	0.	-0. **	53.9	564.1	280.7	19.9	1.000012
76500.0	31.7	-62.9	0.	-0. **	52.5	564.5	276.4	21.5	1.000012
77000.0	30.9	-62.6	0.	-0. **	51.2	565.0	270.6	24.3	1.000011
77500.0	30.2	-62.3	0.	-0. **	49.8	565.5	264.9	27.1	1.000011
78000.0	29.4	-61.9	0.	-0. **	48.5	565.9	260.2	29.9	1.000011

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

STATION ALTITUDE 3989.0 FEET MSL
14 JAN. 69 0330 HRS MST
ASCENSION NO. 26

UPPER AIR DATA
0459003902
WHITE SANDS SITE

WSTM SITE COORDINATES
E 488.580 FEET
N 185.045 FEET

TABLE VII (Cont)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS		DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
		AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE							
78500.0	23.7	-61.6	0-	-0. **	47.3	564.4	32.6	256.1	32.6	1.000011
79000.0	28.0	-61.2	0-	-0. **	46.0	566.8	35.1	252.3	35.1	1.000010
79500.0	27.3	-60.9	0-	-0. **	44.8	567.3	36.1	251.5	36.1	1.000010
80000.0	26.7	-60.5	0-	-0. **	43.7	567.8	37.0	250.8	37.0	1.000010
80500.0	26.0	-60.2	0-	-0. **	42.5	568.2	37.4	251.4	37.4	1.000009
81000.0	25.4	-60.0	0-	-0. **	41.5	568.4	37.4	253.0	37.4	1.000009
81500.0	24.8	-59.9	0-	-0. **	40.5	568.6	37.4	254.6	37.4	1.000009
82000.0	24.2	-59.7	0-	-0. **	39.5	568.9	37.8	258.6	37.8	1.000009
82500.0	23.6	-59.6	0-	-0. **	38.5	569.1	38.2	262.6	38.2	1.000009
83000.0	23.1	-59.4	0-	-0. **	37.6	569.3	38.7	265.9	38.7	1.000008
83500.0	22.5	-59.2	0-	-0. **	36.7	569.5	39.1	268.3	39.1	1.000008
84000.0	22.0	-59.1	0-	-0. **	35.8	569.7	39.5	270.7	39.5	1.000008
84500.0	21.5	-58.9	0-	-0. **	34.9	569.9	39.9	272.5	39.9	1.000008
85000.0	21.0	-58.7	0-	-0. **	34.1	570.2	40.3	274.1	40.3	1.000008
85500.0	20.5	-58.6	0-	-0. **	33.2	570.4	40.6	275.3	40.6	1.000007
86000.0	20.0	-58.4	0-	-0. **	32.4	570.6	40.4	274.9	40.4	1.000007
86500.0	19.5	-58.2	0-	-0. **	31.6	570.8	40.2	274.4	40.2	1.000007
87000.0	19.0	-58.1	0-	-0. **	30.8	571.0	40.2	274.4	40.2	1.000007
87500.0	18.6	-57.9	0-	-0. **	30.1	571.2	40.2	274.6	40.2	1.000007
88000.0	18.1	-57.8	0-	-0. **	29.4	571.5	40.2	274.8	40.2	1.000007
88500.0	17.7	-57.6	0-	-0. **	28.6	571.7	40.0	274.3	40.0	1.000006
89000.0	17.3	-57.4	0-	-0. **	27.9	571.9	39.8	273.8	39.8	1.000006
89500.0	16.9	-57.3	0-	-0. **	27.3	572.1	39.8	273.6	39.8	1.000006
90000.0	16.5	-57.1	0-	-0. **	26.6	572.3	40.0	273.7	40.0	1.000006
90500.0	16.1	-56.9	0-	-0. **	25.9	572.5	40.2	273.8	40.2	1.000006
91000.0	15.7	-56.8	0-	-0. **	25.3	572.7	40.6	273.2	40.6	1.000006
91500.0	15.3	-56.6	0-	-0. **	24.7	573.0	41.0	272.4	41.0	1.000005
92000.0	15.0	-56.5	0-	-0. **	24.1	573.2	41.4	271.3	41.4	1.000005
92500.0	14.6	-56.3	0-	-0. **	23.5	573.4	42.1	269.6	42.1	1.000005
93000.0	14.3	-56.1	0-	-0. **	22.9	573.6	42.8	267.9	42.8	1.000005

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

STATION ALTITUDE 3989.0 FEET MSL

14 JAN. 69

ASCENSION NO. 26

UPPER AIR DATA

0459003902

WHITE SANDS SITE

WSTM SITE COORDINATES

E 488.580 FEET

N 185.045 FEET

TABLE VII (Cont)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL-HUM- PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS			
93500.0	13.9	-56.0	0.	-0. **	22.4	573.8		266.7	43.5	1.000005
94000.0	13.6	-55.8	0.	-0. **	21.8	574.0		266.0	44.1	1.000005
94500.0	13.3	-55.6	0.	-0. **	21.3	574.3				1.000005
95000.0	13.0	-55.5	0.	-0. **	20.8	574.5				1.000005
95500.0	12.7	-54.9	0.	-0. **	20.2	575.2				1.000005
96000.0	12.4	-54.4	0.	-0. **	19.7	575.9				1.000004
96500.0	12.1	-53.9	0.	-0. **	19.2	576.6				1.000004

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

STATION ALTITUDE 3989.0 FEET MSL

14 JAN. 69

ASCENSION NO. 26

MANDATORY LEVELS

0459003902

WHITE SANDS SITE

WSTM SITE COORDINATES

E 488,580 FEET

N 185,045 FEET

TABLE VIII

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4525.	14.7	0.2	37.	308.0	4.3
800.0	6600.	12.2	-2.9	35.	248.6	11.9
750.0	8360.	7.7	-3.9	43.	242.7	18.5
700.0	10211.	3.2	-8.0	44.	230.8	23.5
650.0	12168.	-0.7	-20.2	21.	230.4	27.2
600.0	14252.	-4.8	-5.7	94.	230.4	30.9
550.0	16485.	-8.5	-13.2	70.	235.6	28.4
500.0	18889.	-13.3	-22.0	48.	238.4	30.6
450.0	21494.	-19.0	-22.3	76.	238.1	40.2
400.0	24342.	-24.3	-31.7	51.	233.3	40.3
350.0	27483.	-32.7	-39.8	50.	237.2	39.9
300.0	30974.	-42.4	-49.2	48.	232.5	50.1
250.0	34921.	-53.2	0.	-0.**	226.6	46.8
200.0	39597.	-53.3	0.	-0.**	261.0	36.6
175.0	42415.	-54.6	0.	-0.**	269.4	38.7
150.0	45614.	-59.8	0.	-0.**	267.9	45.3
125.0	49297.	-66.0	0.	-0.**	272.7	49.1
100.0	53682.	-71.0	0.	-0.**	263.7	37.5
80.0	57574.	-74.4	0.	-0.**	264.7	18.3
70.0	60532.	-73.2	0.	-0.**	301.9	19.9
60.0	63506.	-70.1	0.	-0.**	288.9	18.3
50.0	67687.	-68.4	0.	-0.**	295.5	15.3
40.0	71496.	-66.2	0.	-0.**	256.1	23.2
30.0	77273.	-62.2	0.	-0.**	264.2	27.5
25.0	80991.	-59.9	0.	-0.**	254.0	37.4
20.0	85579.	-58.4	0.	-0.**	274.9	40.4
15.0	91543.	-56.5	0.	-0.**	271.5	41.4

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

STATION ALTITUDE 3989.0 FEET MSL
 14 JAN. 69 0630 HRS MST
 ASCENSION NO. 27

SIGNIFICANT LEVEL DATA
 0459003903
 WHITE SANDS SITE

WSTM SITE COORDINATES
 E 488,580 FEET
 N 105,045 FEET

TABLE IX

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
879.5	3989.0	2.1	-3.0	69.0
865.0	4313.5	11.9	3.2	55.0
861.0	4569.0	14.5	2.7	45.0
800.0	6598.2	11.9	-3.1	35.0
732.0	5013.9	6.0	-6.0	42.0
722.0	5383.5	5.5	-16.4	19.0
708.0	9908.1	4.6	-18.4	17.0
679.0	11023.4	3.0	-18.4	19.0
665.0	11417.6	2.1	-9.5	42.0
659.0	11816.4	0.8	-3.3	74.0
638.0	12669.8	-0.9	-5.1	73.0
619.0	13461.0	-3.0	-4.7	88.0
609.0	13885.1	-3.4	-9.3	64.0
580.0	15147.8	-6.2	-9.0	81.0
527.0	17594.2	-10.6	-16.2	64.0
518.0	18029.7	-11.2	-15.3	72.0
500.0	18920.7	-12.5	-18.4	62.0
436.0	22309.6	-20.4	-25.9	62.0
404.0	24148.4	-25.4	-26.5	92.0
400.0	24386.2	-25.3	-28.9	73.0
353.0	25420.0	-27.1	-34.3	51.0
295.0	31122.2	-41.3	-50.2	38.0
257.0	34436.6	-50.8	0.	-0. **
228.0	36971.9	-56.4	0.	-0. **
205.0	39226.1	-50.4	0.	-0. **
163.0	44093.9	-55.8	0.	-0. **
136.0	47838.5	-62.1	0.	-0. **
124.0	49718.0	-62.8	0.	-0. **
112.0	51760.4	-68.0	0.	-0. **
100.0	53993.8	-70.3	0.	-0. **

** RELATIVE HUMIDITY NOT SUPPLIED. ZERO VALUE ASSUMED FOR COMPUTATIONS.

STATION ALTITUDE 3989.0 FEET MSL
 14 JAN. 69 0630 HRS MST
 ASCENSION NO. 27

SIGNIFICANT LEVEL DATA
 045900J903
 WHITE SANDS SITE

WSTM SITE COORDINATES
 E 488,580 FEET
 N 185,045 FEET

TABLE IX (Cont)

PRESSURE GEOMETRIC ALTITUDE		TEMPERATURE		REL-HUM- PERCENT
MILLIBARS	MSL FEET	AIR DEGREES	DEWPOINT CENTIGRADE	
76.0	59337.2	-73.0	0.	-0. **
56.0	65320.0	-68.0	0.	-0. **
49.0	67966.6	-65.5	0.	-0. **
26.0	80797.0	-59.3	0.	-0. **
19.5	86815.3	-55.1	0.	-0. **
16.0	91001.2	-54.6	0.	-0. **
10.0	101089.3	-49.0	0.	-0. **

** RELATIVE HUMIDITY NOT SUPPLIED. ZERO VALUE ASSUMED FOR COMPUTATIONS.

STATION ALTITUDE 3989.0 FEET MSL
14 JAN. 69 0630 HRS MST
ASCENSION NO. 27

UPPER AIR DATA
0459003903
WHITE SANDS SITE

WSM SITE COORDINATES
E 488,580 FEET
N 185,045 FEET

TABLE X

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS			
3589.0	879.5	2.1	-3.0	69.0	1110.9	646.7	240.0	240.0	1.9	1.000272
4000.0	879.1	2.4	-2.8	68.5	1109.1	647.1	240.1	240.1	2.0	1.000272
4500.0	863.2	13.8	2.9	47.7	1044.6	660.7	246.3	246.3	3.5	1.000267
5000.0	847.7	13.9	1.6	42.9	1025.6	660.8	252.6	252.6	5.1	1.000260
5500.0	832.5	13.3	0.2	40.4	1009.7	659.9	258.8	258.8	6.7	1.000253
6000.0	817.5	12.7	-1.3	37.9	994.0	659.1	258.9	258.9	8.6	1.000247
6500.0	802.9	12.0	-2.8	35.5	978.6	658.3	245.7	245.7	11.3	1.000241
7000.0	788.3	10.9	-3.5	36.2	964.6	657.0	237.9	237.9	13.5	1.000237
7500.0	773.9	9.7	-4.1	37.6	951.2	655.6	233.7	233.7	16.7	1.000233
8000.0	759.8	8.5	-4.7	39.1	938.0	654.1	231.3	231.3	17.9	1.000230
8500.0	746.0	7.3	-5.3	40.5	925.0	652.7	230.3	230.3	18.7	1.000226
9000.0	732.4	6.0	-5.9	42.0	912.1	651.3	231.7	231.7	21.5	1.000222
9500.0	718.9	5.3	-16.8	18.6	898.7	650.0	232.8	232.8	23.4	1.000208
10000.0	705.6	4.5	-18.4	17.2	884.8	649.0	233.5	233.5	23.9	1.000204
10500.0	692.5	3.8	-18.4	18.1	870.6	648.2	233.7	233.7	25.4	1.000201
11000.0	679.6	3.0	-18.4	19.0	856.7	647.4	233.2	233.2	27.1	1.000198
11500.0	666.9	1.8	-7.9	48.6	843.4	646.3	230.0	230.0	26.8	1.000205
12000.0	654.4	0.4	-3.7	73.8	831.2	644.9	227.7	227.7	27.1	1.000209
12500.0	642.1	-0.6	-4.8	73.2	818.7	643.7	226.1	226.1	27.7	1.000204
13000.0	630.0	-1.8	-4.9	79.3	806.8	642.3	226.4	226.4	27.4	1.000202
13500.0	618.1	-3.0	-5.1	85.8	795.2	640.8	227.1	227.1	26.9	1.000199
14000.0	606.3	-3.7	-9.2	65.5	782.4	639.6	229.9	229.9	25.5	1.000190
14500.0	594.7	-4.8	-9.0	72.3	770.5	638.5	233.1	233.1	24.3	1.000188
15000.0	583.3	-5.5	-9.0	79.0	758.9	637.2	237.5	237.5	23.7	1.000186
15500.0	572.1	-6.8	-10.0	78.6	747.0	636.0	241.9	241.9	23.4	1.000182
16000.0	561.0	-7.7	-11.4	75.1	735.1	634.9	246.2	246.2	23.5	1.000178
16500.0	550.1	-8.6	-12.9	71.6	723.4	633.8	249.1	249.1	24.0	1.000173
17000.0	539.4	-9.5	-14.4	68.1	711.9	632.7	249.9	249.9	24.9	1.000170
17500.0	528.9	-10.4	-15.9	64.7	700.6	631.5	250.4	250.4	26.1	1.000166
18000.0	518.6	-11.2	-15.4	71.5	688.8	630.7	250.7	250.7	27.3	1.000164

STATION ALTITUDE 3989.0 FEET MSL
14 JAN. 69 0630 HRS MST
ASCENSION NO. 27

UPPER AIR DATA
0459003903
WHITE SANDS SITE

WSIM SITE COORDINATES
E 488,580 FEET
N 165,045 FEET

TABLE X (Cont)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
18500.0	508.4	-11.9	-16.9	66.7	677.2	629.8	250.3	250.3	28.7	1.000160
19000.0	498.4	-12.7	-18.5	62.0	666.0	628.8	250.3	250.3	29.8	1.000156
19500.0	488.4	-13.9	-19.6	62.0	655.6	627.3	251.8	251.8	29.6	1.000153
20000.0	478.7	-15.0	-20.8	62.0	645.5	625.9	253.2	253.2	29.6	1.000150
20500.0	469.1	-16.2	-21.9	62.0	635.5	624.5	254.4	254.4	29.7	1.000148
21000.0	459.7	-17.3	-23.0	62.0	625.6	623.0	255.2	255.2	30.2	1.000145
21500.0	450.5	-18.5	-24.1	62.0	616.0	621.6	255.0	255.0	31.1	1.000142
22000.0	441.5	-19.7	-25.2	62.0	606.4	620.1	254.1	254.1	32.4	1.000140
22500.0	432.6	-20.9	-25.9	65.1	597.1	618.6	253.7	253.7	32.7	1.000137
23000.0	423.7	-22.3	-25.9	73.3	588.0	616.9	252.5	252.5	32.8	1.000135
23500.0	415.0	-23.6	-26.1	81.4	579.1	615.3	250.1	250.1	32.7	1.000133
24000.0	406.5	-25.0	-26.4	89.6	570.4	613.6	248.3	248.3	32.3	1.000131
24500.0	398.1	-25.5	-29.4	70.6	559.8	612.9	247.1	247.1	31.7	1.000128
25000.0	389.8	-26.4	-32.0	59.9	550.1	611.8	245.7	245.7	31.3	1.000125
25500.0	381.7	-27.3	-34.5	50.8	540.7	610.6	244.3	244.3	31.0	1.000122
26000.0	373.5	-28.5	-35.9	49.7	531.8	609.1	244.6	244.6	31.2	1.000120
26500.0	365.5	-29.8	-37.3	48.5	523.1	607.5	245.0	245.0	31.5	1.000118
27000.0	357.6	-31.0	-38.7	47.4	514.5	605.9	245.0	245.0	31.5	1.000116
27500.0	349.9	-32.3	-40.1	46.3	506.1	604.4	245.2	245.2	31.4	1.000114
28000.0	342.4	-33.5	-41.5	45.1	497.8	602.8	246.5	246.5	31.6	1.000112
28500.0	335.1	-34.8	-42.9	44.0	489.6	601.2	248.0	248.0	31.5	1.000110
29000.0	327.9	-36.0	-44.3	42.8	481.7	599.7	250.5	250.5	30.7	1.000108
29500.0	320.8	-37.3	-45.7	41.7	473.8	598.1	253.1	253.1	30.2	1.000106
30000.0	313.9	-38.5	-47.1	40.6	466.1	596.5	256.2	256.2	30.7	1.000104
30500.0	307.2	-39.8	-48.5	39.4	458.5	594.9	259.0	259.0	31.1	1.000103
31000.0	300.6	-41.0	-49.9	38.3	451.1	593.3	260.4	260.4	31.0	1.000101
31500.0	293.9	-42.4	-52.3	33.7**	443.7	591.5	261.3	261.3	31.1	1.000099
32000.0	287.3	-43.8	-55.1	27.9**	436.4	589.7	260.8	260.8	31.5	1.000097
32500.0	280.8	-45.2	-58.2	22.2**	429.2	587.8	260.1	260.1	31.4	1.000096
33000.0	274.4	-46.7	-61.7	16.5**	422.2	586.0	259.1	259.1	30.4	1.000094

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

STATION ALTITUDE 3989.0 FEET MSL

14 JAN. 69

ASCENSION NO. 27

UPPER AIR DATA

0459003903

WHITE SANDS SITE

WSTM SITE COORDINATES

E 488.580 FEET

N 185.045 FEET

TABLE X (Cont)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(IN)	SPEED KNOTS	INDEX OF REFRACTION
33500.0	268.2	-48.1	10.7**	415.3	584.1	256.7	29.7	1.000093
34000.0	262.2	-49.5	5.0**	408.5	582.3	252.4	29.4	1.000091
34500.0	256.2	-50.9	-0. **	401.8	580.4	249.6	29.3	1.000089
35000.0	250.3	-52.0	-0. **	394.3	579.0	248.2	29.2	1.000088
35500.0	244.4	-53.1	-0. **	387.1	577.5	247.3	30.5	1.000086
36000.0	238.7	-54.3	-0. **	379.9	576.1	246.9	33.1	1.000085
36500.0	233.1	-55.4	-0. **	373.0	574.6	248.2	35.5	1.000083
37000.0	227.7	-56.3	-0. **	365.9	573.4	251.1	37.7	1.000081
37500.0	222.4	-55.0	-0. **	355.2	575.1	253.9	39.7	1.000079
38000.0	217.2	-53.7	-0. **	344.8	576.9	256.7	41.6	1.000077
38500.0	212.1	-52.3	-0. **	334.7	578.6	260.5	42.7	1.000075
39000.0	207.2	-51.0	-0. **	325.0	580.4	265.7	42.6	1.000072
39500.0	202.4	-50.7	-0. **	317.0	580.7	270.8	42.8	1.000071
40000.0	197.7	-51.3	-0. **	310.4	580.0	275.6	43.8	1.000069
40500.0	193.1	-51.8	-0. **	303.9	579.3	279.4	44.5	1.000068
41000.0	188.6	-52.4	-0. **	297.6	578.6	280.6	44.9	1.000066
41500.0	184.2	-52.9	-0. **	291.4	577.8	281.4	45.2	1.000065
42000.0	179.9	-53.5	-0. **	285.3	577.1	279.5	45.3	1.000064
42500.0	175.7	-54.0	-0. **	279.4	576.4	277.7	45.5	1.000062
43000.0	171.6	-54.6	-0. **	273.6	575.7	275.0	45.8	1.000061
43500.0	167.6	-55.1	-0. **	267.9	574.9	272.3	46.1	1.000060
44000.0	163.7	-55.7	-0. **	262.3	574.2	270.7	46.3	1.000058
44500.0	159.8	-56.5	-0. **	257.0	573.2	269.6	46.6	1.000057
45000.0	156.0	-57.3	-0. **	251.9	572.0	269.0	47.4	1.000056
45500.0	152.3	-58.2	-0. **	246.8	570.9	269.3	49.2	1.000055
46000.0	148.6	-59.0	-0. **	241.8	569.8	269.7	51.0	1.000054
46500.0	145.1	-59.8	-0. **	237.0	568.7	270.9	51.2	1.000053
47000.0	141.6	-60.7	-0. **	232.3	567.6	272.2	51.3	1.000052
47500.0	138.2	-61.5	-0. **	227.6	566.4	273.5	50.1	1.000051
48000.0	134.9	-62.2	-0. **	222.8	565.6	274.9	47.9	1.000050

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

UPPER AIR DATA
0459003903
WHITE SANDS SITE
MSTM SITE COORDINATES
E 488,580 FEET
N 105,045 FEET

TATION ALTITUDE 3989.0 FEET MSL
14 JAN. 69 0630 HRS MST
ASCENSION IS. 27

TABLE X (Cont)

GIGMETRI. ALTITUDE 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	
48500.0	131.6	-62.3	-0. **	217.6	565.3	275.9	45.3	1.000048
49000.0	128.5	-62.5	-0. **	212.5	565.1	274.8	40.2	1.000047
49500.0	125.3	-62.7	-0. **	207.5	564.8	273.7	35.1	1.000046
50000.0	122.3	-63.5	-0. **	203.2	563.8	270.3	31.8	1.000045
50500.0	119.3	-64.8	-0. **	199.4	562.1	266.3	29.2	1.000044
51000.0	116.3	-66.1	-0. **	195.7	560.3	262.6	28.8	1.000044
51500.0	113.5	-67.3	-0. **	192.1	558.6	259.5	31.2	1.000043
52000.0	110.6	-68.2	-0. **	188.1	557.4	257.1	33.5	1.000042
52500.0	107.9	-68.8	-0. **	183.9	556.7	257.6	35.8	1.000041
53000.0	105.2	-69.3	-0. **	179.7	556.0	258.2	38.0	1.000040
53500.0	102.5	-69.8	-0. **	175.7	555.3	260.1	37.6	1.000039
54000.0	100.0	-70.3	-0. **	171.7	554.6	262.1	37.2	1.000038
54500.0	97.4	-70.6	-0. **	167.6	554.2	265.2	34.5	1.000037
55000.0	95.0	-70.8	-0. **	163.5	553.9	268.8	30.8	1.000036
55500.0	92.6	-71.1	-0. **	159.6	553.5	271.7	27.7	1.000036
56000.0	90.2	-71.3	-0. **	155.7	553.2	273.5	25.3	1.000035
56500.0	87.9	-71.6	-0. **	152.0	552.8	275.1	23.0	1.000034
57000.0	85.7	-71.8	-0. **	148.3	552.5	273.8	22.2	1.000033
57500.0	83.5	-72.1	-0. **	144.7	552.1	272.5	21.3	1.000032
58000.0	81.4	-72.3	-0. **	141.2	551.8	271.9	21.6	1.000031
58500.0	79.3	-72.6	-0. **	137.8	551.5	271.6	22.4	1.000031
59000.0	77.3	-72.8	-0. **	134.5	551.1	273.5	22.9	1.000030
59500.0	75.4	-72.9	-0. **	131.1	551.1	278.0	23.2	1.000029
60000.0	73.5	-72.4	-0. **	127.5	551.6	282.9	23.2	1.000028
60500.0	71.6	-72.0	-0. **	124.1	552.2	289.7	21.7	1.000027
61000.0	69.8	-71.6	-0. **	120.7	552.8	296.4	20.3	1.000027
61500.0	68.1	-71.2	-0. **	117.4	553.4	298.9	19.0	1.000026
62000.0	66.3	-70.8	-0. **	114.2	553.9	300.8	17.8	1.000025
62500.0	64.7	-70.4	-0. **	111.1	554.5	299.6	17.4	1.000025
63000.0	63.0	-69.9	-0. **	108.1	555.1	296.1	17.4	1.000024

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

STATION ALTITUDE 3989.0 FEET MSL

14 JAN. 69

ASCENSION NO. 27

UPPER AIR DATA

0459003903

WHITE SANDS SITE

WSTM SITE COORDINATES

E 488.500 FEET

N 185.043 FEET

TABLE X (Cont)

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	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
63500.0	61.5	-69.5	0.	-0. **	105.1	555.6	292.9	18.3	1.0000023
64000.0	59.9	-69.1	0.	-0. **	102.3	556.2	290.9	21.3	1.0000023
64500.0	58.4	-68.7	0.	-0. **	99.5	556.8	288.8	24.3	1.0000022
65000.0	56.9	-68.3	0.	-0. **	96.8	557.3	291.6	25.0	1.0000022
65500.0	55.5	-68.0	0.	-0. **	94.3	557.7	294.7	25.5	1.0000021
66000.0	54.1	-68.1	0.	-0. **	92.0	557.5	297.7	24.1	1.0000020
66500.0	52.8	-68.2	0.	-0. **	89.7	557.4	300.7	21.5	1.0000020
67000.0	51.4	-68.3	0.	-0. **	87.5	557.3	301.0	18.6	1.0000019
67500.0	50.2	-68.4	0.	-0. **	85.4	557.2	294.4	15.1	1.0000019
68000.0	48.9	-68.5	0.	-0. **	83.3	557.1	287.7	11.6	1.0000019
68500.0	47.7	-68.1	0.	-0. **	81.1	557.6	275.5	11.7	1.0000018
69000.0	46.6	-67.8	0.	-0. **	79.0	558.0	262.7	12.1	1.0000018
69500.0	45.4	-67.4	0.	-0. **	76.9	558.5	254.5	13.4	1.0000017
70000.0	44.3	-67.0	0.	-0. **	74.9	559.0	254.0	16.0	1.0000017
70500.0	43.2	-66.7	0.	-0. **	73.0	559.5	253.6	18.5	1.0000016
71000.0	42.2	-66.3	0.	-0. **	71.1	560.0	255.0	20.8	1.0000016
71500.0	41.2	-66.0	0.	-0. **	69.2	560.5	257.9	22.7	1.0000015
72000.0	40.1	-65.6	0.	-0. **	67.4	561.0	260.8	24.6	1.0000015
72500.0	39.2	-65.2	0.	-0. **	65.6	561.4	263.8	26.0	1.0000015
73000.0	38.2	-64.9	0.	-0. **	63.9	561.9	266.8	26.9	1.0000014
73500.0	37.3	-64.5	0.	-0. **	62.3	562.4	269.8	27.9	1.0000014
74000.0	36.4	-64.2	0.	-0. **	60.6	562.9	272.5	28.2	1.0000014
74500.0	35.5	-63.8	0.	-0. **	59.1	563.4	274.9	28.3	1.0000013
75000.0	34.6	-63.5	0.	-0. **	57.5	563.9	277.3	28.3	1.0000013
75500.0	33.8	-63.1	0.	-0. **	56.0	564.3	279.1	28.0	1.0000012
76000.0	33.0	-62.7	0.	-0. **	54.6	564.8	280.5	27.5	1.0000012
76500.0	32.1	-62.4	0.	-0. **	53.1	565.3	281.9	27.0	1.0000012
77000.0	31.4	-62.0	0.	-0. **	51.8	565.8	280.8	26.5	1.0000012
77500.0	30.6	-61.7	0.	-0. **	50.4	566.3	278.6	26.0	1.0000011
78000.0	29.9	-61.3	0.	-0. **	49.1	566.7	276.5	25.5	1.0000011

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

STATION ALTITUDE 3989.0 FEET MSL
 14 JAN. 69 0630 HRS MST
 ASCENSION NO. 27

UPPER AIR DATA
 0459003903
 WHITE SANDS SITE

WSTM SITE COORDINATES
 E 488,580 FEET
 N 185,045 FEET

TABLE X (Cont)

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	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
77500.0	25.1	-60.9	0.	-0. **	47.8	567.2	272.6	26.5	1.000011
79000.0	28.4	-60.6	0.	-0. **	46.6	567.7	268.1	27.9	1.000010
79500.0	27.7	-60.2	0.	-0. **	45.4	568.2	263.6	29.3	1.000010
80000.0	27.0	-59.9	0.	-0. **	44.2	568.7	262.6	30.6	1.000010
80500.0	26.4	-59.5	0.	-0. **	43.0	569.1	262.6	31.8	1.000010
81000.0	25.7	-59.2	0.	-0. **	41.9	569.6	262.6	33.0	1.000009
81500.0	25.1	-58.8	0.	-0. **	40.9	570.1	263.1	34.0	1.000009
82000.0	24.5	-58.5	0.	-0. **	39.8	570.5	263.7	34.9	1.000009
82500.0	24.0	-58.1	0.	-0. **	38.8	571.0	264.4	35.7	1.000009
83000.0	23.4	-57.8	0.	-0. **	37.9	571.5	266.6	35.4	1.000008
83500.0	22.8	-57.4	0.	-0. **	36.9	571.9	269.5	34.7	1.000008
84000.0	22.3	-57.1	0.	-0. **	36.0	572.4	272.3	34.0	1.000008
84500.0	21.8	-56.7	0.	-0. **	35.1	572.8	273.1	34.1	1.000008
85000.0	21.3	-56.4	0.	-0. **	34.2	573.3	273.1	34.7	1.000008
85500.0	20.8	-56.0	0.	-0. **	33.3	573.8	273.0	35.3	1.000007
86000.0	20.3	-55.7	0.	-0. **	32.5	574.2	273.0	35.7	1.000007
86500.0	19.8	-55.3	0.	-0. **	31.7	574.7	273.0	35.9	1.000007
87000.0	19.3	-55.1	0.	-0. **	30.9	575.0	273.1	36.2	1.000007
87500.0	18.9	-55.0	0.	-0. **	30.2	575.1	273.0	36.9	1.000007
88000.0	18.4	-55.0	0.	-0. **	29.4	575.2	272.8	38.0	1.000007
88500.0	18.0	-54.9	0.	-0. **	28.7	575.2	272.6	39.1	1.000006
89000.0	17.6	-54.8	0.	-0. **	28.1	575.3	272.8	39.9	1.000006
89500.0	17.2	-54.8	0.	-0. **	27.4	575.4	273.4	40.5	1.000006
90000.0	16.8	-54.7	0.	-0. **	26.8	575.5	273.9	41.0	1.000006
90500.0	16.4	-54.7	0.	-0. **	26.1	575.6	273.8	41.4	1.000006
91000.0	16.0	-54.6	0.	-0. **	25.5	575.6	272.7	41.7	1.000006
91500.0	15.6	-54.3	0.	-0. **	24.9	576.0	271.5	42.0	1.000006
92000.0	15.3	-54.0	0.	-0. **	24.3	576.4	270.5	42.6	1.000005
92500.0	14.9	-53.8	0.	-0. **	23.7	576.7	269.7	44.2	1.000005
93000.0	14.6	-53.5	0.	-0. **	23.1	577.1	269.0	45.8	1.000005

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

STATION ALTITUDE 3989.0 FEET MSL
14 JAN. 69 0630 HRS MST
ASCENSION NO. 27

UPPER AIR DATA
0459003903
WHITE SANDS SITE

WSM SITE COORDINATES
E 488.580 FEET
N 185.045 FEET

TABLE X (Cont)

GEGMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL-HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS			
93500.0	14.2	-53.2	0.	-0. **	22.6	577.5		268.3	47.3	1.000005
94000.0	13.9	-52.9	0.	-0. **	22.0	577.8		267.8	48.7	1.000005
94500.0	13.6	-52.7	0.	-0. **	21.5	578.2		267.2	50.1	1.000005
95000.0	13.3	-52.4	0.	-0. **	21.0	578.6		266.7	51.5	1.000005
95500.0	13.0	-52.1	0.	-0. **	20.5	578.9		268.0	53.1	1.000005
96000.0	12.7	-51.8	0.	-0. **	20.0	579.3		269.4	54.6	1.000004
96500.0	12.4	-51.5	0.	-0. **	19.5	579.6		270.7	56.2	1.000004
97000.0	12.1	-51.3	0.	-0. **	19.0	580.0		271.9	56.1	1.000004
97500.0	11.8	-51.0	0.	-0. **	18.5	580.4		273.0	55.8	1.000004
98000.0	11.5	-50.7	0.	-0. **	18.1	580.7		274.2	55.4	1.000004
98500.0	11.3	-50.4	0.	-0. **	17.6	581.1				1.000004
99000.0	11.0	-50.2	0.	-0. **	17.2	581.5				1.000004
99500.0	10.8	-49.9	0.	-0. **	16.8	581.8				1.000004
100000.0	10.5	-49.6	0.	-0. **	16.4	582.2				1.000004
100500.0	10.3	-49.3	0.	-0. **	16.0	582.5				1.000004
101000.0	10.0	-49.0	0.	-0. **	15.6	582.9				1.000003

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

STATION ALTITUDE 3989.0 FEET MSL

14 JAN. 69

ASCENSION NO. 27

MANDATORY LEVELS

0459003903

WHITE SANDS SITE

TABLE XI

WSTM SITE COORDINATES

E 488,580 FEET

N 185,045 FEET

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4924.	14.0	1.8	43.	251.6	4.9
800.0	6596.	11.9	-3.1	35.	244.0	11.7
750.0	8254.	7.6	-5.1	40.	229.9	17.9
700.0	10205.	4.2	-18.4	18.	233.8	24.2
650.0	12170.	0.1	-4.1	74.	227.1	27.3
600.0	14260.	-4.3	-9.1	69.	231.4	24.7
550.0	16493.	-8.6	-12.9	72.	249.1	24.0
500.0	18900.	-12.5	-18.4	62.	250.1	29.8
450.0	21511.	-18.6	-24.2	62.	254.9	31.2
400.0	24253.	-25.3	-28.9	73.	247.4	31.8
350.0	27493.	-32.3	-40.1	46.	245.3	31.4
300.0	30956.	-41.1	-50.0	38.	260.5	31.0
250.0	34963.	-52.1	0.	-0.**	248.1	29.2
200.0	39674.	-51.0	0.	-0.**	273.2	43.3
175.0	42505.	-54.1	0.	-0.**	277.2	45.5
150.0	45719.	-58.7	0.	-0.**	269.5	50.4
125.0	49430.	-62.7	0.	-0.**	273.6	34.6
100.0	53846.	-70.3	0.	-0.**	262.1	37.2
80.0	58172.	-72.5	0.	-0.**	271.7	22.2
70.0	60747.	-71.7	0.	-0.**	295.4	20.5
60.0	63151.	-69.1	0.	-0.**	291.1	21.0
50.0	67339.	-68.4	0.	-0.**	293.6	14.7
40.0	71757.	-65.6	0.	-0.**	260.8	24.7
30.0	77554.	-61.4	0.	-0.**	277.2	25.7
25.0	81287.	-58.7	0.	-0.**	263.2	34.2
20.0	85920.	-55.5	0.	-0.**	273.0	35.8
15.0	91558.	-53.8	0.	-0.**	269.9	43.8
10.0	100596.	-49.0	0.	-0.**		

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

RELEASE TIME (MST)		SECOND-STAGE IMPACT DISPLACEMENT IN MILES DUE TO WIND								AZI- MUTH (DEG- REES)	THEORETICAL IMPACT FROM LAUNCHER (IN MILES)				
		SFC-216 FT				4160-73300 FT								TOTAL	
		N-S		E-W		N-S		E-W						N-S	
RAWIN- SONDE	PIBAL	N-S	E-W	N-S	E-W	N-S	E-W	N-S	E-W		RANGE	N-S	E-W		
0330	0430	2.0N	0.4W	3.7N	1.4W	3.2S	17.9W	2.5N	19.7W	356.5	73.0	72.9N	4.4W		
0330	0500	4.8N	0.5E	3.3N	2.7W	3.2S	17.9W	4.9N	20.1W	356.4	75.5	75.3N	4.8W		
0330	0530	4.6N	0.7E	2.2N	4.0W	3.2S	17.9W	3.6N	21.2W	355.4	74.2	74.0N	5.9W		
0330	0545	2.0N	0.8E	3.9N	3.3W	3.2S	17.9W	2.7N	20.4W	356.0	73.3	73.1N	5.1W		
0330	0600	1.0N	2.7E	0.4N	3.3W	3.2S	17.9W	1.8S	18.5W	357.3	68.7	68.6N	3.2W		
0330	0610	1.3N	1.3E	3.6N	4.4W	3.2S	17.9W	1.7N	21.0W	355.5	72.3	72.1N	5.7W		
0330	0624	1.3N	1.6E	0.3N	4.0W	3.2S	17.9W	1.6S	20.3W	355.8	69.0	68.8N	5.0W		
0630	0630	2.0N	1.5E	1.4N	2.1W	0.7N	16.2W	4.1N	16.8W	358.8	74.5	74.5N	1.5W		

AZI- MUTH (DEG- REES)	MILES FROM LAUNCHER		
	RANGE	N-S	E-W
016.0	73.2	70.4N	20.2E
012.3	72.0	70.4N	15.3E
358.0	69.0	69.0N	2.4W
355.6	90.8	90.5N	7.0W
022.0	2.1	1.9N	0.8E
N/A	N/A	N/A	N/A

TABLE XII. IMPACT PREDICTION DATA
NIKE-HYDAC STV 75, SR-06

UNCLASSIFIED

Security Classification

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(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)		
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10. DISTRIBUTION STATEMENT This document is subject to special export controls and each transmittal to foreign governments or foreign nationals may be made only with prior approval of Atmospheric Sciences Office, White Sands Missile Range, New Mexico.		
11. SUPPLEMENTARY NOTES	12. SPONSORING MILITARY ACTIVITY U. S. Army Electronics Command Atmospheric Sciences Office White Sands Missile Range, New Mexico	
13. ABSTRACT Meteorological data gathered for the launching of Nike-Hydac STV 75, SR-06, are presented for the Space and Missile Systems Organization, AFMDC, Holloman Air Force Base, New Mexico, and for ballistic studies. The data appear, along with calculated ballistic data, in tabular form.		

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1 NOV 65

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