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17. Remarks			

ABSTRACT

Data from the EXAMETNET Meteorological Rocket Launchings at Barreira do Inferno, are presented for the period August 1975 - May 1976. Six successfull routine launchings are reported, all for thermodynamic and wind measurements. In September 1975 the first launching was made in the Marambaia Range and untill May 1976 three launchings were made but without success.

INDEX

Abstract.	iii
1 - INTRODUCTION.	1
2 - DATA ACQUISITION AND PROCESSING	2
3 - DISCUSSION OF RESULTS	8
Appendix A.	A.1

1 - INTRODUCTION

This report, to be submitted to the Eleventh Meeting of the EXAMETNET (Philadelphia, U.S.A., June 1976), describes the EXAMETNET activity in Brazil, in the period from August 1975 to May 1976. The Experimental Inter-American Meteorological Rocket Network (EXAMETNET) promotes coordinated launchings of meteorological rockets to study the atmosphere up to 65 km. The program has been active since January 1966. In Brazil, the rockets are launched from the Barreira do Inferno, Natal ($05^{\circ}55'S$, $30^{\circ}10'W$), and in September 1975 the launching was initiated at Marambaia Range, Rio de Janeiro ($23^{\circ}03'S$, $43^{\circ}36'W$). A review of the Network activities has been published in the report "EXAMETNET - The First Five Years" - available from member organizations.

2 - DATA ACQUISITION AND PROCESSING

A total of 9 sounding rockets were launched for routine purposes in the period considered, 6 of them successfully. Table Ia and Ib summarize the routine launching data.

Ground facilities used for EXAMETNET purposes include:

BARREIRA DO INFERNO RANGE (RN)

- a) MPS-19 Radar System
- b) Radar (BEARN) with MITRA-15 Computer System
- c) Ground Meteorological Detector (GMD-1A) - 1680 MHz
- d) Meteorological Data Receiving and Recording System - 403 MHz
- e) Double Theodolite Warren-Knight - Model WK-84
- f) 42 m Anemometer Tower with four Fuess Anemometers
- g) Rail and Tubular Launchers
- h) Control

MARAMBAIA RANGE (RJ)

- a) Radar (ADOUR) - 5,6 GHz - with MITRA-15 Computer System
- b) Rawinsonde Receiver (RD-65) - 1680 MHz
- c) 2 Theodolites Kern Aarav - Mod. 1943
- d) 2 Theodolites Kassel Breithaupt - Mod. 80 Garat.
- e) 2 Doppler Radars (FERRANTI) - 12 GHz
- f) 40 m Anemometer Tower with three Altec Anemometers Mod. J-325

g) Tubular Launcher (LAU-66)

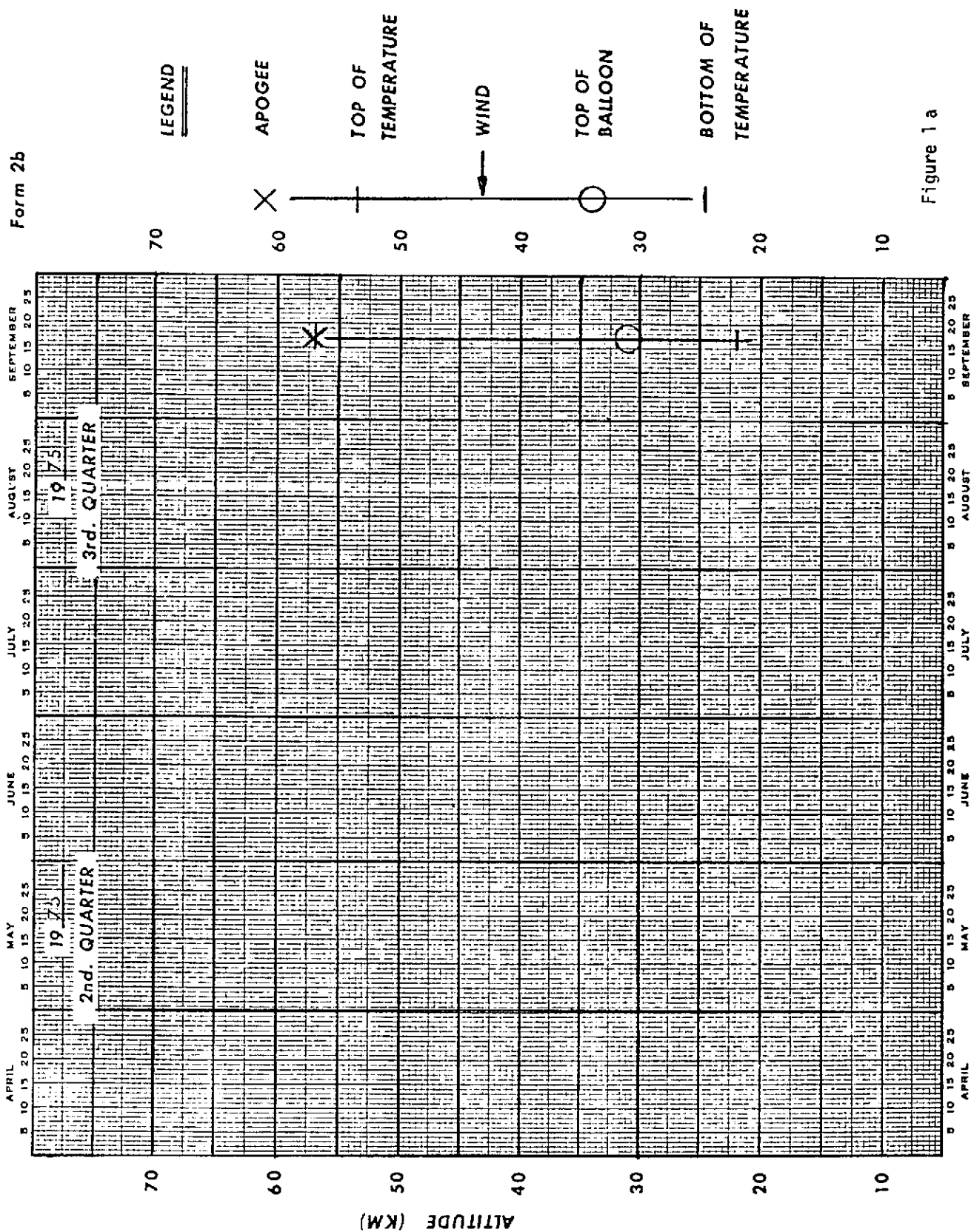
h) Control

Data processing was done in accordance to the EXAMETNET Data Preparation Standards. Computer programs have been developed, at INPE - São José dos Campos (São Paulo), to reduce, compile on magnetic tape, as well as to plot and print the results. These computer programs are also operational since August 1975 at INPE-Natal (Rio Grande do Norte), and now data processing can also be made there.

Tables Ia, Ib and Figs. 1a, 1b summarize the routine launchings schedule followed during the period. The gaps in the actual schedule, compared with the proposed ones were due to difficulties in rocket procurement.

The Appendix A presents the routine data obtained during the period covered by this report, in both tabular and graphic form.

EXAMETNET SUMMARY of METEOROLOGICAL DATA



EXAMETNET SUMMARY of METEOROLOGICAL DATA

Form 2a

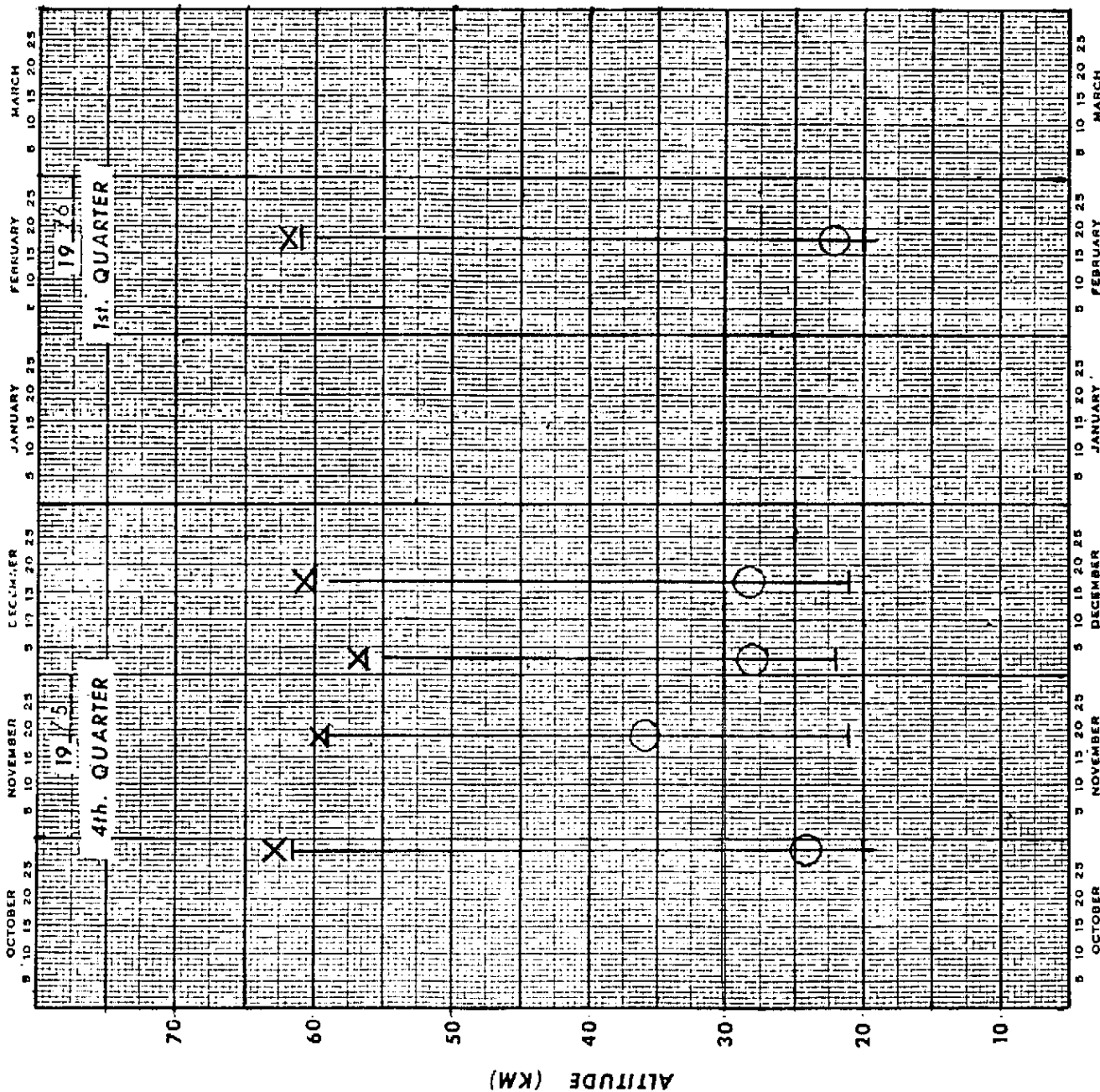


Figure 1b

EXAMETNET SUMMARY of LAUNCH OPERATIONS

Form 1

STATION: - CLFBI - Natal, Brazil			HEIGHT (above mean sea level): 43 (m)		PERIOD: from 07 02 75 to 05 31 76								N O T E #		
LAT: 05 0 55 LONG: 35 0 10		DATE and LAUNCH TIME (GMT)	MOTOR TYPE	PAY- LOAD TYPE	PAYLOAD ACQ (meters)	WIND DATA (km)				THERMODYNAMIC DATA (km)				RESULTS (POS or NEG)	
NO.	MODEL CODE					ROCKET TOP	ROCKET BOT	BALLOON TOP	BALLOON BOT	ROCKET TOP	ROCKET BOT	BALLOON TOP			BALLOON BOT
126	BI-7502-0126	09/17 1425	LOKI	DS	58995	56	21	21	.04	57	22	21	.04	+	
127	BI-7503-0127	10/29 1432	LOKI	DS	62815	62	19	24	.04	62	20	24	.04	+	
128	BI-7504-0128	11/19 1432	LOKI	DS	59608	59	21	36	.04	59	21	36	.04	+	
129	BI-7505-0129	12/03 1424	LOKI	DS	56731	55	22	28	.04	56	22	28	.04	+	
130	BI-7506-0130	12/17 1416	LOKI	DS	60695	59	21	28	.04	60	21	28	.04	+	
131	BI-7601-0131	02/18 1434	LOKI	DS	61941	60	19	22	.04	61	20	22	.04	+	
NOTES:															

Table Ia

EXAMETNET SUMMARY of LAUNCH OPERATIONS Form 1

STATION: - CPM - Rio de Janeiro, Brazil			LIE. GMT (above mean sea level.): 11 (m)		PERIOD: From 18 09 75 to 05 31 76				N O T E #										
LAT: -23 0 03 LONG: 43 0 36		DATE and LAUNCH TIME (GMT)		PAY- LOAD TYPE		PAYLOAD ACQ (meters)		WIND DATA (km)											
MODEL CODE				MOTOR TYPE				ROCKET TOP BOT		BALLOON TOP BOT		THERMODYNAMIC DATA (km)		ROCKET TOP BOT		BALLOON TOP BOT		RESULTS (POS or NEG)	
001	CPM-7501-0001	09/18	0500	LOKI	DS	---		--	--	--	--	--	--	--	--	--	--	--	1
002	CPM-7601-0002	05/12	0700	LOKI	DS	---		--	--	--	--	--	--	--	--	--	--	--	2
003	CPM-7602-0003	05/26	0740	LOKI	DS	---		--	--	--	--	--	--	--	--	--	--	--	3
NOTES: 1) No signal, probably flight system failed; 2) No signal received, no ejection; 3) No acquisition until 10 minutes.																			

Table Ib

3 - DISCUSSION OF RESULTS

The group of MESA/EXAM Project at INPE is involved in research concerning: 1) momentum and sensible heat transport at stratospheric levels; 2) quasi-biennial oscillations in the temperature and wind fields.

APPENDIX A

In the following pages, the data for the 6 successful routine launchings between August 1975 and May 1976 are presented in tabular form, according to the World Data Center recommendation and in graphic form. Correction is applied to temperature data as given in Krumins and Lyons (1972).

SEP 17 1975 1425GMT NATAL BRAZIL LOWI DATASTORE HJ-7502

STA	YRMO0A	GNT	TR	WS	TS	A C	H C	WC	TC	WHT	WHR	THT	THR	SC	SHT	SHR	RT	RP	RSALT	RSPRES	RSTEM
R2559	750917	1425	1068	400	060	C C	O O	O O						0			21	0	2020	5500	-667

SOLDING DATA (HEIGHT IN GEOMETRIC DECAHFTERS)

ALTITUDE	POLAR		COMPONENT		CORRECTED COMPONENT		FALL VEL	TEMPERATURE		PRESSURE	DENSITY	SUS	SPECIAL SENSOR
	DIR	SPD	N-S	E-W	N-S	E-W		DEG	COR				
	DEG	MPS	MPS	MPS	MPS	MPS		MPS	MPS				
5700							67	-5		4.797E-01	4.785E-01	329	
5700							67	-6		3.473E-01	4.785E-01	328	
5600	121	33	17	-28			118	-5	-10	4.161E-01	2.134E+00	328	
5500	121	28	14	-24			71	-4	-5	4.712E-01	2.134E+00	329	
5400	127	24	14	-19			63	-3	-5	5.335E-01	2.134E+00	330	
5300	120	12	6	-10			67	-2	-5	6.037E-01	2.134E+00	330	
5200	45	13	-9	-9			63	-1	-4	6.830E-01	2.134E+00	331	
5100	5	15	-15	-1			57	0	-4	7.723E-01	2.134E+00	331	
5000	345	5	-5	0			54	1	-3	8.729E-01	2.134E+00	332	
4900	24	2	-2	-1			48	2	-3	9.863E-01	2.134E+00	333	
4800	24	2	-2	-1			47	3	-3	1.114E+00	2.134E+00	333	
4700	357	5	-5	0			48	4	-3	1.258E+00	2.134E+00	334	
4600	43	2	-1	-1			40	5	-2	1.419E+00	2.134E+00	334	
4500	112	10	4	-9			38	6	-2	1.601E+00	2.134E+00	335	
4400	104	18	4	-17			36	7	-2	1.713E+00	2.134E+00	335	
4400	102	24	5	-23			35	4	-2	1.806E+00	3.192E+00	334	
4300	102	31	6	-30			34	-3	-2	2.042E+00	3.192E+00	330	
4200	90	29	0	-29			33	-9	-1	2.316E+00	3.192E+00	326	
4171	88	30	-1	-30			32	-11	-1	2.403E+00	3.192E+00	325	
4100	85	34	-3	-34			29	-14	-1	2.634E+00	5.424E+00	323	
4000	85	35	-3	-35			27	-17	-1	3.001E+00	5.424E+00	321	
3900	87	34	-2	-34			24	-21	-1	3.426E+00	5.424E+00	318	
3810	84	32	-1	-32			23	-25	-1	3.868E+00	5.424E+00	314	
3800	89	37	-1	-32			23	-25	-1	3.920E+00	7.423E+00	316	
3700	84	42	-1	-42			22	-26	-1	4.491E+00	7.423E+00	315	
3600	88	23	-1	-23			19	-27	-1	5.149E+00	7.423E+00	314	
3588	89	21	0	-21			19	-27	-1	5.238E+00	7.423E+00	314	
3543	95	15	1	-15			19	-32	-1	5.568E+00	8.056E+00	311	
3500	106	10	3	-10			18	-34	-1	5.918E+00	1.003E+01	310	
3408	287	3	-1	3			17	-39	-1	6.750E+00	1.003E+01	307	
3400	287	4	-1	3			17	-39	-1	6.824E+00	1.455E+01	307	
3300	280	6	-1	5			16	-39	-1	7.881E+00	1.455E+01	307	
3200	260	9	2	8			14	-40	-1	9.106E+00	1.455E+01	306	
3155	264	8	1	8			14	-40	-1	9.724E+00	1.455E+01	306	
3100	270	7	0	6			13	-43	-1	1.053E+01	1.816E+01	304	
3025	287	11	-3	10			13	-47					

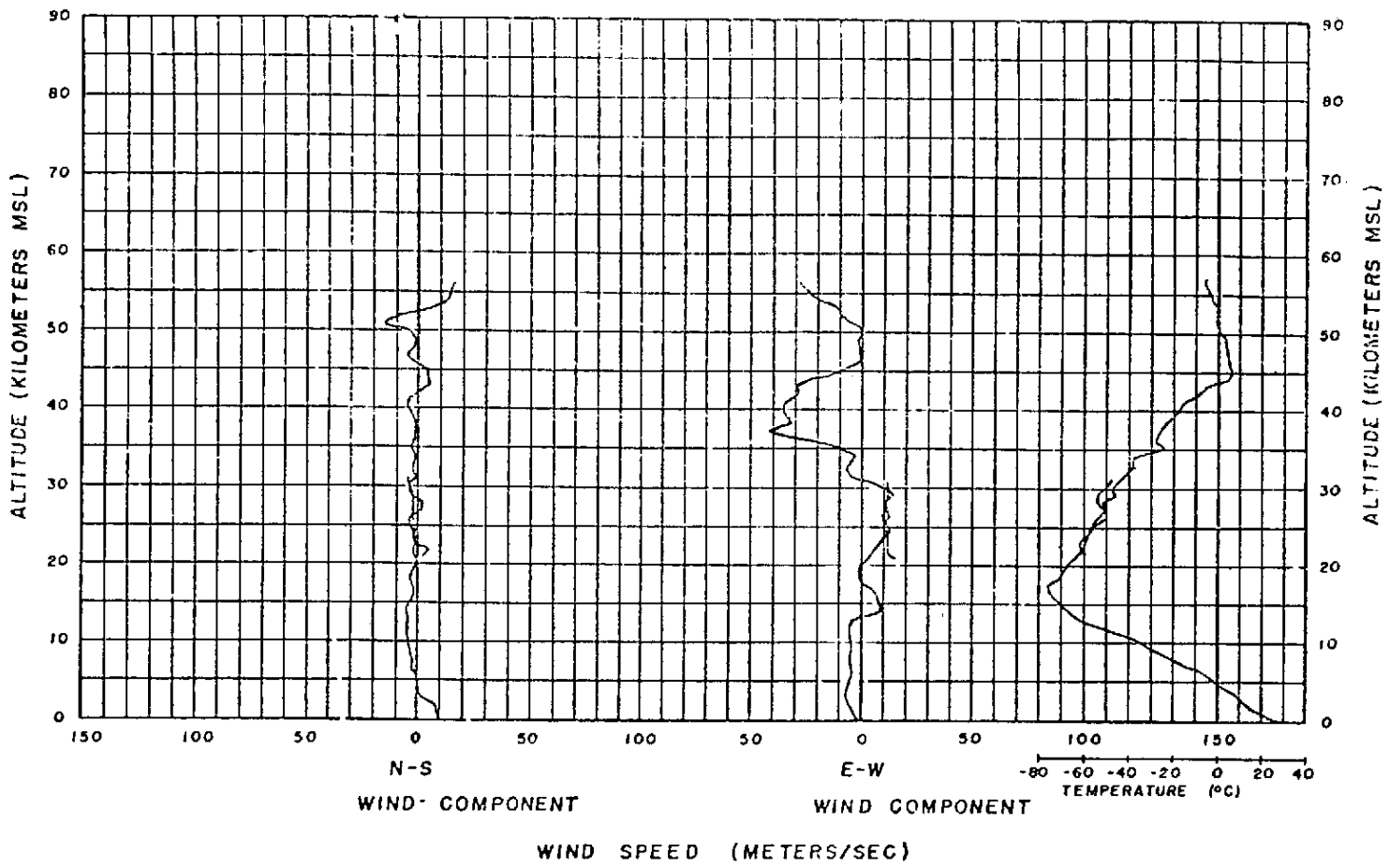
SONDING DATA CONSTANT PRESSURE LEVELS (GEOPOTENTIAL DECAMETERS)

5566					-5	4.000E-01	5.205E-01	328
5122	35	13	-11	-7	-3	7.000E-01	9.017E-01	329
4837	24	2	-2	-1	0	1.000E+00	1.275E+00	331
4276	102	30	6	-29	-1	2.000E+00	2.556E+00	330
3965	85	35	-3	-35	-17	3.000E+00	4.073E+00	321
3591	48	27	-1	-27	-27	5.000E+00	7.073E+00	314
3355	285	4	-1	4	-39	7.000E+00	1.040E+01	306
3111	266	8	1	8	-41	1.000E+01	1.502E+01	305
2654	267	12	1	12	-50	2.000E+01	3.115E+01	299
2394	277	13	-2	13	-58	3.000E+01	4.853E+01	294
2067	277	5	-2	4	-62	5.000E+01	6.230E+01	291

RAWINSONDE OBSERVATION (HEIGHT IN GEOPOTENTIAL DECAMETERS)

3100	290	12	-4	11	-490	1.000E+01
2883	285	14	-3	13	-523	1.400E+01
2646	285	11	-2	10	-507	2.000E+01
2630	285	11	-2	10	-505	2.100E+01
2510	240	12	-2	11	-584	2.500E+01
2440	275	13	-1	12	-565	2.800E+01
2392	281	12	-2	11	-608	3.000E+01
2352	270	12	0	12	-627	3.200E+01
2086	300	4	-2	3	-617	4.900E+01
2076	306	2	-1	1	-627	5.000E+01
2020	305	1	0	0	-667	5.500E+01
1874	344	3	-2	0	-701	7.000E+01
1807	355	4	-3	0	-720	7.900E+01
1772	355	4	-3	0	-765	8.300E+01
1666	260	7	1	6	-755	1.000E+02
1425	306	12	-7	9	-655	1.500E+02
1245	54	7	-4	-5	-537	2.000E+02
1098	66	15	-6	-13	-412	2.500E+02
972	50	6	-3	-4	-308	3.000E+02
759	61	6	-2	-5	-150	4.000E+02
588	55	4	-2	-3	-65	5.000E+02
316	102	9	1	-8	89	7.000E+02
152	152	11	9	-5	172	8.500E+02
11	165	11	10	-2	264	1.000E+03
4	170	10	9	-1	271	1.007E+03

SUPPLEMENTAL DATA			
MOTOR	LOFT	PERFORM	GOOD
PAYLOAD	DATASCOPE	PERFORM	GOOD
RADAR TYPE	MOT-19/BEARN		
EF AZ ANG	125°	EF EL ANG	78°
PAYLOAD ACQUIS ALT	5850	IS	TIME 201 SEC.
WIND SENSOR	7.77. STANLEY		
TEMP SENSOR	.010 INCH BLAD		
SPEC SENSOR	NONE		
GROUND EQUIP	GND-1A		
RADIOSONDE TYPE	VALSALA / RS-51		
PRESS SNSR TYPE	ANEPOID		
TEMP ELMT TYPE	BI-METAL		
BALLOON SIZE	ECO	GRAMS	
GROUND EQUIP	GND-1A		
REMARKS:			



SOLDING DATA (HEIGHT IN GEOMETRIC DECAHETERS)

ALTITUDE	POLAR		COMPONENT		CORRECTED COMPONENT		FALL VEL	TEMPERATURE		PRESSURE	DENSITY	SUS	SPECIAL SENSOR
	DIR	SPD	N-S	E-W	N-S	E-W		DEG C	COR				
	DEG	MPS	MPS	MPS	MPS	MPS		DEG C	COR				
6200	242	13	6	10			100						
6164	250	14	5	13			100	-21	-11	2.043E-01	2.826E-01	318	
6100	262	17	2	14			100	-20	-12	2.223E-01	7.317E-01	319	
6000	285	10	-3	9			56	-17	-7	2.534E-01	7.317E-01	321	
5900	289	12	-4	10			57	-15	-7	2.886E-01	7.317E-01	322	
5800	296	9	-4	7			111	-12	-11	3.283E-01	7.317E-01	324	
5700	33	4	-3	-2			63	-10	-7	3.729E-01	7.317E-01	325	
5600	65	4	-2	-4			54	-7	-5	4.232E-01	7.317E-01	327	
5500	240	4	2	2			67	-5	-5	4.797E-01	7.317E-01	329	
5400	242	3	1	2			77	-2	-6	5.431E-01	7.317E-01	330	
5358	281	5	-1	5			74	-1	-5	5.717E-01	7.317E-01	331	
5300	296	10	-4	8			69	-1	-5	6.143E-01	1.097E+00	331	
5200	328	6	-5	2			77	-1	-5	6.949E-01	1.097E+00	331	
5100	281	4	-1	3			61	-1	-4	7.661E-01	1.097E+00	330	
5032	261	3	0	3			54	-2	-3	8.548E-01	1.097E+00	330	
5000	249	3	1	2			51	-1	-3	8.894E-01	1.808E+00	331	
4900	341	3	-3	0			48	-2	-3	1.005E+00	1.808E+00	333	
4800	169	14	13	-5			47	5	-3	1.135E+00	1.808E+00	334	
4700	288	8	-2	7			43	8	-3	1.280E+00	1.808E+00	336	
4600	322	20	-16	11			42	11	-3	1.441E+00	1.808E+00	338	
4580	316	12	-9	9			40	11	-2	1.476E+00	1.808E+00	338	
4500	162	19	18	-6			36	7	-2	1.623E+00	2.802E+00	335	
4400	164	5	5	-1			34	1	-2	1.833E+00	2.802E+00	332	
4300	348	14	-14	2			32	-5	-2	2.075E+00	2.802E+00	328	
4275	3	11	-11	-1			32	-7	-2	2.142E+00	2.802E+00	327	
4200	77	11	-2	-11			32	-7	-2	2.354E+00	3.281E+00	327	
4151	76	14	-3	-13			32	-7	-1	2.503E+00	3.281E+00	327	
4100	75	17	-4	-16			31	-11	-1	2.673E+00	4.509E+00	325	
4000	74	24	-7	-23			24	-18	-1	3.044E+00	4.509E+00	320	
3950	73	27	-8	-26			24	-22	-1	3.253E+00	4.509E+00	318	
3900	73	30	-9	-29			24	-23	-1	3.479E+00	5.968E+00	317	
3800	70	29	-10	-27			24	-25	-1	3.983E+00	5.968E+00	315	
3757	69	27	-10	-25			23	-27	-1	4.225E+00	5.968E+00	315	
3700	67	24	-9	-22			22	-27	-1	4.566E+00	7.668E+00	315	
3600	65	16	-7	-15			20	-27	-1	5.234E+00	7.668E+00	315	
3574	63	15	-7	-14			19	-2					

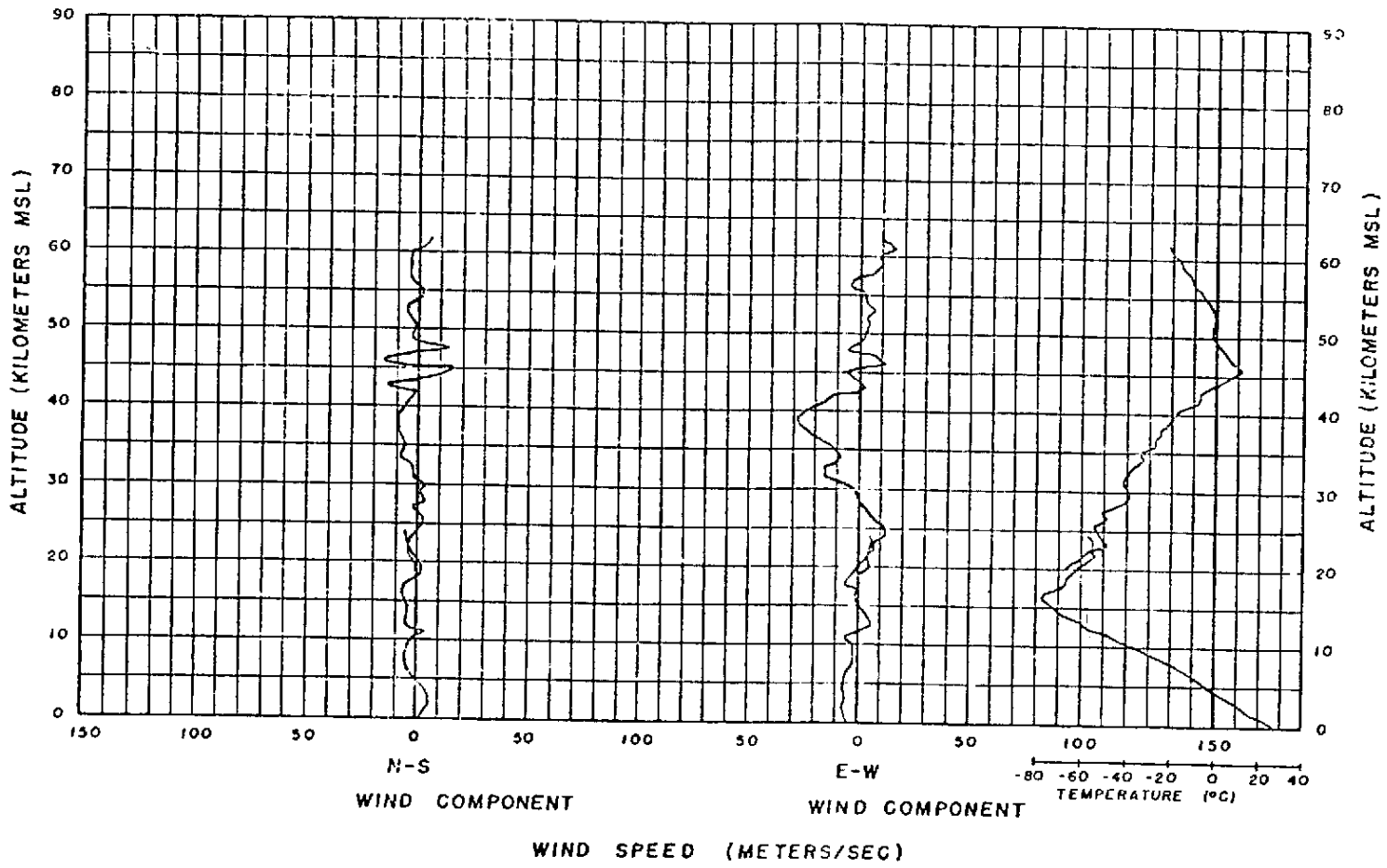
SOUNDING DATA CONSTANT PRESSURE LEVELS (GEOPOTENTIAL DECAHETERS)

5579	51	4	-2	-3	-11	4.000E-01	5.306E-01	324
5138	324	6	-5	3	-1	7.000E-01	8.970E-01	330
4853	339	3	-3	1	1	1.000E+00	1.269E+00	332
4298	348	8	-8	2	-3	2.000E+00	2.579E+00	329
3975	74	23	-6	-22	-17	3.000E+00	4.080E+00	320
3603	66	19	-8	-17	-27	5.000E+00	7.066E+00	314
3364	52	12	-7	-10	-33	7.000E+00	1.017E+01	310
3119	76	10	-2	-10	-41	1.000E+01	1.501E+01	305
2654	273	6	0	6	-49	2.000E+01	3.110E+01	300
2392	269	13	0	13	-54	3.000E+01	4.775E+01	294
2067	297	5	-2	4	-62	5.000E+01	8.230E+01	291

RAWINSONDE OBSERVATION (HEIGHT IN GEOPOTENTIAL DECAHETERS)

2439	310	9	-5	6	-561	2.800E+01
2395	306	9	-5	7	-559	3.000E+01
2161	295	8	-3	7	-548	4.200E+01
2070	304	5	-2	4	-594	5.000E+01
1873	125	4	2	-3	-676	6.900E+01
1864	121	5	2	-4	-676	7.000E+01
1823	111	7	2	-6	-676	7.500E+01
1677	8	7	-6	0	-781	9.600E+01
1654	10	7	-6	-	-777	1.000E+02
1417	325	5	-4	2	-682	1.500E+02
1239	313	10	-6	7	-553	2.000E+02
1093	134	7	8	-5	-434	2.500E+02
968	54	3	-1	-2	-327	3.000E+02
758	20	6	-5	-2	-181	4.000E+02
587	51	7	-4	-5	-77	5.000E+02
316	131	9	5	-6	87	7.000E+02
152	133	11	7	-8	152	8.500E+02
11	117	7	3	-6	261	1.000E+03
4	120	6	2	-5	287	1.000E+03

SUPPLEMENTAL DATA			
MOTOR	LOST	PERFORM	GOOD
PAYLOAD	DATASONDE	PERFORM	GOOD
RADAR TYPE	NPS-19/BLANK		
EF AZ ANG	058°	EF EL ANG	74°
PAYLOAD ACQUIS ALT	42815	K	TIME 227 SEC.
WIND SENSOR	7. FT. STATURE		
TEMP SENSOR	010 INCH BEAD		
SPEC SENSOR	NONE		
GRND EQUIP	GND-7A		
RADIOSONDE TYPE	AN/AN-1		
PRESS SXR TYPE	ANEROID		
TEMP ELMT TYPE	BIMETAL		
BALLOON SIZE	1000	GAMS	
GROUND EQUIP			
REMARKS:			



NOV 19 1975 1432GMT NATAL BRAZIL LOKI DATASCNDF BI-7504

STA	YRMODE	GMT	TR	WS	TS	A C	H C	WC	TC	WHT	WHR	THT	THU	SQ	SHT	SHR	RT	RP	RSALT	HSPWES	RSTEM
82569	751119	1432	-130	600	060	C C	U O	O O						0			4	0	2004	5500	-605

SOLUING DATA (HEIGHT IN GEOMETRIC DECAETERS)

ALTITUDE	POLAR		COMPONENT		CORRECTED COMPONENT		FALL VEL	TEMPERATURE		PRESSURE KBS	DENSITY G/M ³	SDS MPS	SPECIAL SENSOR DATA A R
	DIR DEG	SPD MPS	N-S MPS	E-W MPS	N-S MPS	E-W MPS		CGR					
5900	269	24	0	23			56						
5846	272	20	-1	20			56	-14	-6	3.025E+01	4.102E+01	321	
5800	276	16	-2	15			57	-14	-6	3.211E+01	5.872E+01	323	
5700	324	8	-6	4			61	-9	-6	3.649E+01	5.872E+01	326	
5600	336	7	-6	2			63	-5	-6	4.139E+01	5.872E+01	328	
5517	32	9	-8	-5			66	-1	-5	4.588E+01	5.872E+01	331	
5500	39	10	-8	-6			67	-2	-4	4.684E+01	6.869E+01	330	
5410	54	12	-7	-9			69	-7	-4	5.240E+01	6.869E+01	327	
5400	55	12	-7	-10			69	-7	-5	5.307E+01	9.552E+01	327	
5300	66	10	-4	-9			63	-3	-5	6.014E+01	9.552E+01	330	
5200	64	9	-4	-8			56	1	-4	6.801E+01	9.552E+01	332	
5105	64	8	-4	-7			54	5	-4	7.629E+01	9.552E+01	334	
5100	64	8	-4	-7			54	5	-3	7.678E+01	1.880E+00	334	
5000	48	13	-9	-10			51	4	-3	8.665E+01	1.880E+00	334	
4900	25	17	-15	-7			48	2	-3	9.784E+01	1.880E+00	333	
4800	52	14	-9	-11			44	1	-3	1.105E+00	1.880E+00	332	
4700	74	13	-4	-12			42	0	-2	1.250E+00	1.880E+00	331	
4600	56	10	-6	-8			39	-2	-2	1.414E+00	1.880E+00	330	
4572	53	9	-5	-7			38	-2	-2	1.464E+00	1.880E+00	330	
4500	44	7	-5	-5			34	-4	-2	1.601E+00	2.807E+00	329	
4400	60	14	-7	-12			35	-8	-2	1.815E+00	2.807E+00	327	
4300	79	14	-3	-14			33	-11	-2	2.062E+00	2.807E+00	325	
4282	81	13	-2	-13			33	-11	-2	2.109E+00	2.807E+00	324	
4200	92	9	0	-9			29	-8	-2	2.343E+00	3.739E+00	326	
4100	102	9	2	-9			28	-4	-2	2.658E+00	3.739E+00	329	
4025	94	13	1	-13			27	-1	-1	2.918E+00	3.739E+00	331	
4000	93	15	1	-15			26	-4	-1	3.010E+00	5.329E+00	329	
3900	83	27	-3	-27			24	-15	-1	3.419E+00	5.329E+00	322	
3818	80	36	-7	-35			23	-24	-1	3.814E+00	5.329E+00	317	
3800	79	38	-7	-37			23	-24	-1	3.906E+00	7.543E+00	316	
3700	74	39	-9	-38			21	-26	-1	4.474E+00	7.543E+00	315	
3600	93	38	2	-38			19	-29	-1	5.131E+00	7.543E+00	314	
3578	93	37	2	-37			19	-29	-1	5.287E+00	7.543E+00	313	
3500	93	32	2	-32			18	-35	-1	5.894E+00	8.788E+00	310	
3488	93	31	2	-31			18	-35	-1	5.996E+00	8.788E+00	309	
3400	93	26	1	-26			16	-35	-1	6.796E+00	1.010E+01	309	
3389	93	25	1	-25			16	-35	-1	6.899E+00	1.010E+01	309	
3304	93	20	1	-20			15	-42	-1	7.801E+00	1.176E+01	305	
3300	93	20	1	-20			14	-42	-1	7.846E+00	1.694E+01	305	
3200	93	12	1	-12			14	-42	-1	9.078E+00	1.694E+01	305	
3100	00	8	-1	-8			14	-41	-1	1.050E+01	1.694E+01	305	
3050	74	5	-1	-5			13	-41	-1	1.130E+01	1.694E+01	306	
3000	50	2	-1	-2			12	-43	-1	1.214E+01	2.044E+01	304	
2934	311	2	-2	2			11	-45	-1	1.339E+01	2.044E+01	303	
2900	296	4	-2	3			11	-44	-1	1.407E+01	2.317E+01	303	
2842	312	3	-2	2			10	-43	-1	1.532E+01	2.317E+01	304	
2800	324	3	-3	1			10	-43	-1	1.630E+01	3.047E+01	304	
2700	35	3	-2	-2			9	-44	-1	1.889E+01	3.047E+01	303	
2653	52	1	-1	-1			9	-45	-1	2.024E+01	3.047E+01	303	
2600	146	1	1	-1			8	-49	-1	2.191E+01	3.692E+01	300	
2557	195	2	2	1			8	-52	-1	2.338E+01	3.692E+01	298	
2500	207	5	4	1			8	-55	-1	2.554E+01	4.758E+01	296	
2409	223	8	6	5			7	-58	-1	2.941E+01	4.758E+01	294	
2400	224	8	6	5			7	-58	-1	2.985E+01	5.530E+01	294	
2310	247	9	3	8			7	-57	-1	3.435E+01	5.530E+01	295	
2300	249	9	3	7			6	-57	-1	3.491E+01	7.587E+01	295	
2200	263	8	1	7			6	-60	-1	4.087E+01	7.587E+01	293	
2128	253	9	2	8			5	-62	-1	4.589E+01	7.587E+01	291	
2100	250	9	3	7			5	-62	-1			291	

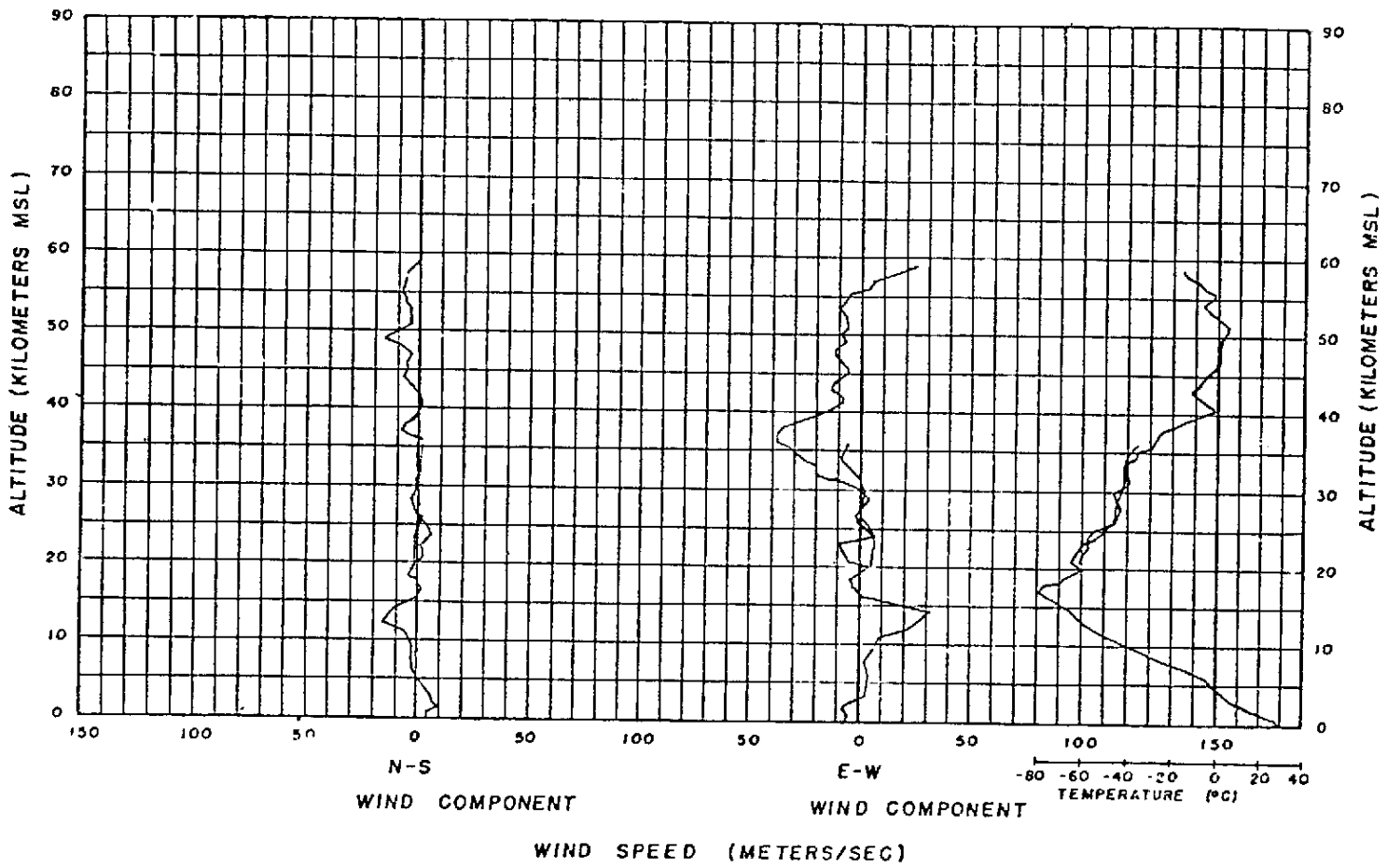
SOUNDING DATA CONSTANT PRESSURE LEVELS (GEOPOTENTIAL DECAMETERS)

5563	332	7	-6	3	-7	4.000E-01	5.230E-01	327
5121	64	9	-4	-8	2	7.000E-01	8.870E-01	332
4832	29	16	-14	-8	3	1.000E+00	1.263E+00	332
4283	74	14	-4	-13	-10	2.000E+00	2.646E+00	325
3967	93	15	1	-15	-3	3.000E+00	3.874E+00	329
3588	90	38	0	-38	-28	5.000E+00	7.105E+00	313
3352	93	25	1	-25	-36	7.000E+00	1.028E+01	308
3110	86	9	-3	-9	-41	1.000E+01	1.502E+01	305
2643	87	2	-1	-1	-45	2.000E+01	3.050E+01	303
2381	225	8	0	6	-58	3.000E+01	4.850E+01	294

RAWIASONDE OBSERVATION (HEIGHT IN GEOPOTENTIAL DECAMETERS)

3584	95	7	0	-6	-358	5.000E+00
3353	90	9	0	-9	-409	7.000E+00
3109	271	1	0	0	-395	1.000E+01
2986	283	2	0	1	-467	1.200E+01
2795	62	1	0	0	-438	1.600E+01
2645	226	2	1	1	-484	2.000E+01
2382	271	8	0	7	-567	3.000E+01
2286	280	11	-1	10	-599	3.500E+01
2089	280	6	-1	5	-637	4.890E+01
2064	231	6	-1	5	-628	5.000E+01
2004	285	5	-1	4	-605	5.500E+01
1859	43	5	-3	-3	-684	7.000E+01
1841	79	5	0	-4	-693	7.200E+01
1787	99	4	0	-3	-785	7.900E+01
1737	139	3	2	-1	-795	8.600E+01
1651	248	2	0	1	-760	1.000E+02
1411	290	34	-11	31	-663	1.500E+02
1233	307	27	-16	21	-566	2.000E+02
1084	310	12	-7	9	-450	2.500E+02
963	287	9	-2	8	-354	3.000E+02
756	336	3	-2	1	-180	4.000E+02
584	244	5	2	4	-42	5.000E+02
313	211	6	5	3	60	7.000E+02
151	130	13	9	-8	156	8.500E+02
11	130	8	5	-6	276	1.000E+03
2	130	8	5	-6	289	1.008E+03

SUPPLEMENTAL DATA			
MOTOR	LOKI	PERFORM	GOOD
PAYLOAD	DATASONDE	PERFORM	GOOD
RADAR TYPE	NPS-18/BEARN		
EF AZ ANG	071	EF EL ANG	12.0
PAYLOAD ACQUIS ALT	58408	H	TIME 121 SEC.
WIND SENSOR	1. FT. STANUTE		
TEMP SENSOR	010 INCH BEAD		
SPEC SENSOR			
GRND EQUIP	GND-1A		
RADIOSONDE TYPE	AN/MTC-4		
PRESS SHSA TYPE	ALCANTO		
TEMP CLMPT TYPE	BIMETAL		
BALLOON SIZE	1000	GAINS	
GROUND EQUIP	GND-1A		
REMARKS:			



- A.11 -

DEC 3 1975 1424GMT NATAL BRASIL LOKI DATASOUND HI-7505

STA	YRMOQA	GMT	TR	NS	TS	A C	B C	WC	TC	NHT	NMB	THT	TMB	SD	SMT	SHR	RT	RP	RSALT	RSPRES	RSTEN
82599	751203	1424	-094	600	060	0 0	0 0	0 0						0			21	0	2155	4300	-660

SOUDING DATA (HEIGHT IN GEOMETRIC DECAWETERS)

ALTITUDE	POLAR		COMPONENT		CORRECTED COMPONENT		FALL VEL	TEMPERATURE	PRESSURE	DENSITY	SUS	SPECIAL SENSOR
	DIR	SPD	N-S	E-W	N-S	E-W						
	DEG	MPS	MPS	MPS	MPS	MPS						
5615							23	-7	-4	3.991E-01	5.234E-01	327
5600							77	-7	-6	4.066E-01	1.171E+00	327
5500	280	13	-2	12			67	-5	-3	4.609E-01	1.171E+00	328
5400	255	3	1	2			65	-3	-5	5.221E-01	1.171E+00	329
5300	30	9	-8	-4			63	-2	-4	5.909E-01	1.171E+00	330
5200	50	15	-10	-11			61	0	-4	6.682E-01	1.171E+00	332
5100	75	20	-5	-19			38	2	-3	7.550E-01	1.171E+00	333
5000	96	26	3	-24			43	4	-3	8.524E-01	1.171E+00	334
4921	94	24	4	-24			62	6	-4	9.374E-01	1.171E+00	335
4900	99	24	4	-24			67	5	-4	9.614E-01	3.934E+00	334
4800	86	30	-2	-30			45	3	-2	1.085E+00	3.934E+00	333
4700	82	36	-5	-36			41	0	-2	1.224E+00	3.934E+00	331
4600	75	31	-8	-30			43	-2	-2	1.387E+00	3.934E+00	330
4500	70	26	-9	-24			36	-3	-2	1.571E+00	3.934E+00	328
4400	79	19	-4	-19			32	-8	-2	1.782E+00	3.934E+00	327
4300	79	14	-3	-18			33	-10	-2	2.024E+00	3.934E+00	325
4200	68	17	-6	-16			30	-13	-2	2.301E+00	3.934E+00	324
4100	70	17	-6	-16			28	-15	-1	2.620E+00	3.934E+00	322
4025	70	17	-6	-16			27	-17	-1	2.891E+00	3.934E+00	321
4000	70	17	-6	-16			27	-16	-2	2.987E+00	4.217E+00	322
3962	70	20	-7	-16			25	-14	-1	3.134E+00	4.217E+00	323
3900	70	24	-8	-23			22	-15	-1	3.402E+00	6.138E+00	322
3800	103	34	8	-33			22	-18	-1	3.879E+00	6.138E+00	321
3700	105	37	10	-36			22	-20	-1	4.424E+00	6.138E+00	319
3694	105	37	10	-36			21	-20	-1	4.462E+00	6.138E+00	319
3600	105	39	10	-38			19	-28	-1	5.068E+00	7.633E+00	314
3568	106	39	11	-38			19	-31	-1	5.300E+00	7.633E+00	312
3500	107	39	11	-37			18	-33	-1	5.426E+00	1.173E+01	311
3400	99	32	5	-32			17	-35	-1	6.708E+00	1.173E+01	309
3300	73	25	-7	-24			16	-38	-1	7.736E+00	1.173E+01	308
3284	70	24	-6	-23			15	-38	-1	7.913E+00	1.173E+01	307
3222	55	22	-13	-14			14	-46	-1	8.669E+00	1.330E+01	302
3200	50	22	-14	-17			14	-46	-1	8.953E+00	1.816E+01	302
3100	43	16	-12	-11			13	-45	-1	1.038E+01	1.816E+01	303
3002	56	9	-5	-8			12	-43	-1	1.199E+01	1.816E+01	304
3000	57	9	-5	-8			12	-44	-1	1.203E+01	1.982E+01	304
2961	59	7	-3	-6			11	-49	-1	1.274E+01	1.982E+01	300
2900	71	3	-1	-3			11	-48	-1	1.397E+01	2.433E+01	301
2816	144	4	4	-2			10	-47	-1	1.583E+01	2.433E+01	302
2800	155	5	5	-2			10	-47	-1	1.622E+01	5.907E+01	302
2700	212	9	8	4			9	-49	-1	1.884E+01	5.907E+01	300
2600	246	10	4	8			8	-51	-1	2.192E+01	5.907E+01	299
2500	271	14	0	13			8	-52	-1	2.553E+01	5.907E+01	294
2400	203	10	-2	9			7	-54	-1	2.978E+01	5.907E+01	297
2300	299	7	-3	5			6	-56	-1	3.478E+01	5.907E+01	295
2266	294	5	-2	5			6	-57	-1	3.667E+01	5.907E+01	295
2200	255	2	1	1			6	-63	-1			291

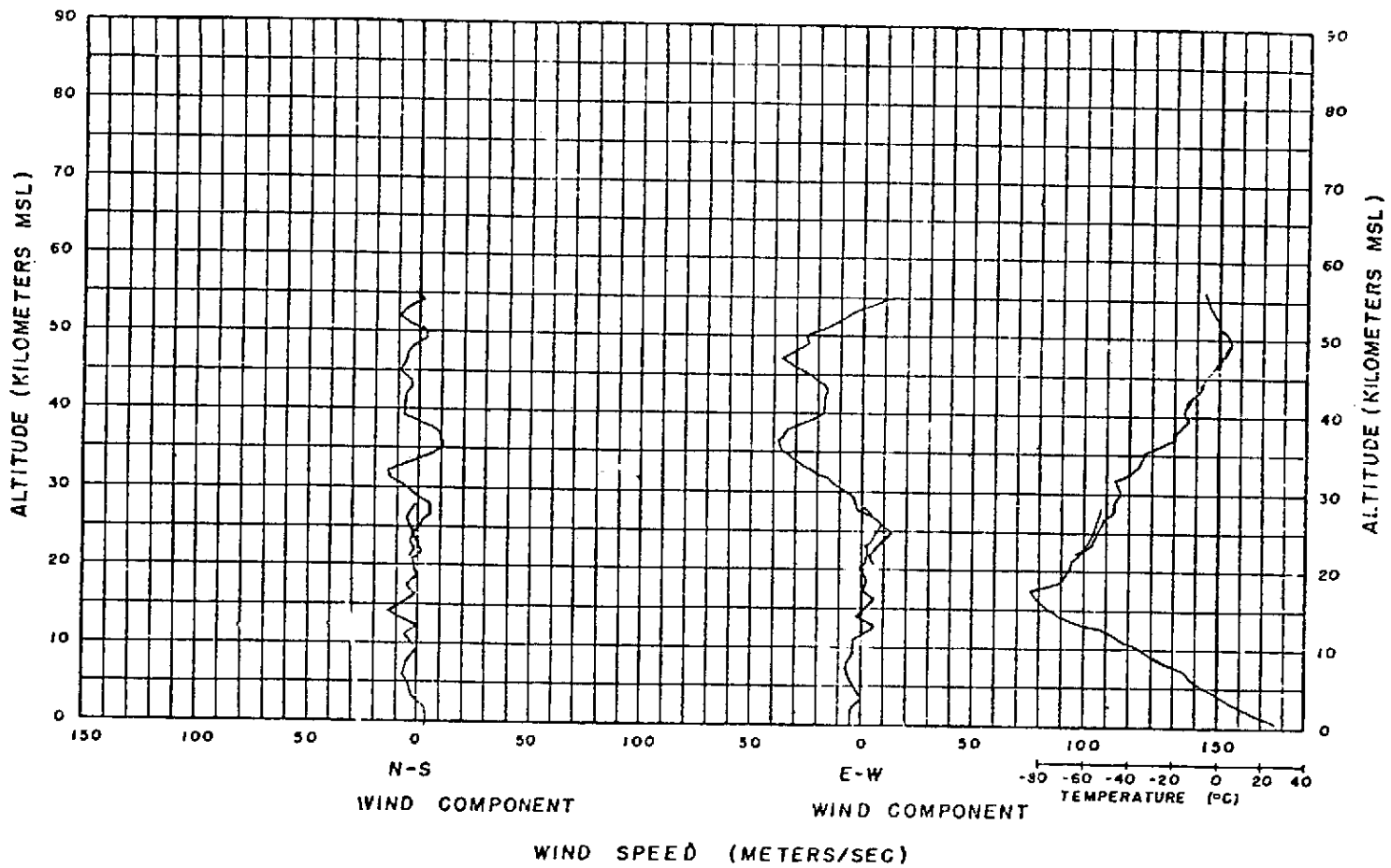
SCOUNDING DATA CONSTANT PRESSURE LEVELS (GEOPOTENTIAL DECAMETERS)

5549					-7	4.000E+01	5.245E+01	326
5166	61	17	-8	-15	0	7.000E+01	8.932E+01	331
4818	92	26	2	-26	5	1.000E+00	1.253E+00	334
4270	79	18	-3	-18	-7	2.000E+00	2.615E+00	327
3961	70	17	-6	-16	-16	3.000E+00	4.060E+00	321
3560	105	39	10	-37	-27	5.000E+00	7.082E+00	314
3303	93	29	1	-29	-36	7.000E+00	1.027E+01	308
3101	45	17	-12	-12	-45	1.000E+01	1.527E+01	302
2843	226	9	6	6	-49	2.000E+01	3.103E+01	300
2380	204	10	-2	10	-54	3.000E+01	4.760E+01	297
2067	297	5	-2	4	-62	5.000E+01	8.230E+01	291

RADIOSONDE OBSERVATION (HEIGHT IN GEOPOTENTIAL DECAMETERS)

2819	30	2	-1	0	-518	1.500E+01
2634	305	11	-6	9	-540	2.000E+01
2376	331	3	-2	1	-573	3.000E+01
2281	303	3	-1	2	-588	3.500E+01
2155	225	3	2	2	-660	4.300E+01
2099	292	3	-1	2	-694	4.700E+01
2060	347	4	-3	0	-653	5.000E+01
1866	299	3	-1	2	-711	6.900E+01
1858	302	3	-1	2	-721	7.000E+01
1750	356	8	-7	0	-845	8.500E+01
1657	279	7	-1	6	-810	1.000E+02
1421	8	15	-14	-2	-669	1.500E+02
1241	272	7	0	6	-530	2.000E+02
1093	20	9	-8	-3	-415	2.500E+02
970	90	4	0	-4	-313	3.000E+02
756	54	11	-6	-8	-167	4.000E+02
585	34	10	-8	-5	-60	5.000E+02
314	15	3	-2	0	80	7.000E+02
151	133	6	4	-4	170	8.500E+02
10	126	6	3	-4	269	1.000E+03
4	130	6	3	-4	274	1.006E+03

SUPPLEMENTAL DATA			
MOTOR	LOKE	PERFORM	GOOD
PAYLOAD	DATASONDE	PERFORM	GOOD
RADAR TYPE	APS-19/BEAR		
EF AZ ANG	076°	EF EL ANG	73°
PAYLOAD ACQUIS ALT	83733	H	TIME 308 SEC.
WIND SENSOR	2-FT. STANUTE		
TEMP SENSOR	.010 INCH BEAD		
SPEC SENSOR	NONE		
CPND EQUIP	CND-1A		
RADIOSONDE TYPE	VALSALA / RS-82		
PRESS SNSR TYPE	ANEROID		
TEMP ELMT TYPE	BIMETAL		
BALLOON SIZE	800	GRAMS	
GROUND EQUIP	LND-1A		
REMARKS:			



- A.14 -

DEC 17 1975 1416GMT NATAL BRAZIL LOKI DATASCNDE B1-7506

STA	YRMO	DAY	TR	NS	TS	A C	B C	MC	TC	WHT	WPR	THT	TNB	SO	SHI	SHR	RT	RP	RSALT	NSPRES	RSTEM
82559	751217	1416	-132	ADD	060	C C	0 0	0 0						0			21	0	2075	5000	-604

SOLVING DATA (HEIGHT IN GEOMETRIC DECAPETERS)

ALTITUDE	POLAR		COMPONENT		CORRECTED COMPONENT		FALL VEL	TEMPERATURE		PRESSURE	DENSITY	SUS	SPECIAL S NSOR
	DIR	SPD	N-S	E-W	N-S	E-W		DEG	C				
6000													
5900	241	10	5	8			100	-11	-11	2.805E-01	3.671E-01	325	
5822	49	6	-4	-5			74	-7	-7	3.184E-01	3.671E-01	327	
5800	52	11	-7	-9			87	-10	-7	2.771E-01	3.671E-01	325	
5700	55	15	-9	-12			91	-10	-8	2.849E-01	5.841E-01	325	
5600	54	13	-8	-11			87	-8	-7	3.234E-01	5.841E-01	326	
5500	54	15	-9	-12			74	-6	-6	3.668E-01	5.841E-01	327	
5433	54	12	-7	-10			71	-5	-6	4.157E-01	5.841E-01	328	
5400	54	11	-6	-9			67	-4	-5	4.514E-01	5.841E-01	329	
5300	54	14	-8	-11			65	-4	-4	4.708E-01	7.828E-01	329	
5206	61	25	-12	-22			65	-5	-4	5.333E-01	7.828E-01	328	
5200	61	26	-13	-23			63	-6	-4	6.000E-01	7.828E-01	328	
5100	63	31	-14	-28			63	-6	-4	6.045E-01	1.266E+00	328	
5000	62	23	-11	-20			54	-3	-4	6.848E-01	1.266E+00	330	
4900	75	28	-7	-27			53	0	-4	7.748E-01	1.266E+00	331	
4800	90	30	0	-30			49	3	-3	8.755E-01	1.266E+00	333	
4776	94	27	2	-27			48	6	-3	9.880E-01	1.266E+00	335	
4700	111	20	7	-19			47	7	-3	1.017E+00	1.266E+00	335	
4600	82	31	-4	-31			44	6	-2	1.114E+00	1.579E+00	335	
4596	82	31	-5	-31			39	5	-2	1.257E+00	1.579E+00	335	
4500	77	43	-10	-42			39	5	-2	1.262E+00	1.579E+00	335	
4400	88	37	-1	-37			39	2	-2	1.419E+00	2.819E+00	333	
4300	94	39	3	-39			36	-1	-2	1.604E+00	2.819E+00	331	
4200	95	33	3	-33			33	-4	-2	1.816E+00	2.819E+00	329	
4168	93	32	1	-32			32	-7	-2	2.059E+00	2.819E+00	327	
4100	87	29	-2	-29			31	-8	-1	2.144E+00	2.819E+00	326	
4000	88	29	-1	-29			29	-12	-1	2.339E+00	4.124E+00	324	
3918	85	36	-3	-35			24	-18	-1	2.664E+00	4.124E+00	320	
3900	85	37	-3	-37			24	-22	-1	2.970E+00	4.124E+00	318	
3800	84	43	-4	-43			23	-23	-1	3.043E+00	5.509E+00	317	
3722	89	45	-1	-45			22	-26	-1	3.484E+00	5.509E+00	315	
3700	90	45	0	-45			21	-28	-1	3.878E+00	5.509E+00	314	
3635	92	40	1	-40			21	-30	-1	3.995E+00	6.414E+00	313	
3600	93	37	2	-37			20	-35	-1	4.378E+00	6.414E+00	309	
3500	90	30	0	-30			19	-35	-1	4.594E+00	7.720E+00	310	
3496	90	30	0	-30			18	-33	-1	5.294E+00	7.720E+00	311	
3452	88	29	-1	-29			18	-33	-1	5.323E+00	7.720E+00	311	
3400	85	27	-2	-27			18	-39	-1	5.669E+00	8.448E+00	307	
3301	87	26	-1	-26			17	-38	-1	6.107E+00	1.031E+01	307	
3300	87	26	-1	-26			15	-35	-1	7.034E+00	1.031E+01	309	
3223	92	20	1	-20			15	-35	-1	7.043E+00	1.194E+01	309	
3200	94	18	1	-18			15	-44	-1	7.869E+00	1.194E+01	304	
3100	76	9	-2	-9			14	-43	-1	8.142E+00	1.449E+01	304	
3078	77	8	-2	-7			13	-40	-1	9.418E+00	1.449E+01	306	
3057	78	6	-1	-6			13	-39	-1	9.716E+00	1.449E+01	306	
3000	84	3	0	-3			13	-45	-1	1.002E+01	1.528E+01	303	
2932	85	3	0	-3			12	-45	-1	1.091E+01	1.836E+01	303	
2900	86	3	0	-3			11	-44	-1	1.206E+01	1.836E+01	303	
2877	85	3	0	-3			11	-47	-1	1.265E+01	2.035E+01	301	
2800	82	2	0	-2			11	-49	-1	1.388E+01	2.035E+01	300	
2700	300	4	-2	2			10	-50	-1	1.470E+01	3.720E+01	299	
2600	290	4	-1	3			9	-52	-1	1.712E+01	3.720E+01	298	
2500	281	3	-1	2			9	-53	-1	1.995E+01	3.720E+01	297	
2498	281	3	-1	3			8	-54	-1	2.327E+01	3.720E+01	296	
2446	259	1	0	1			8	-55	-1	2.335E+01	3.720E+01	296	
2423	232	1	1	1			8	-52	-1	2.529E+01	3.975E+01	298	
2400	189	1	1	0			7	-56	-1	2.619E+01	4.195E+01	296	
2300	127	1	1	-1			7	-57	-1	2.715E+01	6.279E+01	295	
2200	280	2	0	1			6	-61	-1	3.179E+01	6.279E+01	292	
2196	281	2	0	2			6	-65	-1	3.733E+01	6.279E+01	290	
2111	287	6	-2	5			6	-65	-1	3.757E+01	6.279E+01	289	
2100	287	6	-2	7			6	-62	-1	4.311E+01	7.100E+01	292	
							4	-61	-1			292	

SOUNDING DATA CONSTANT PRESSURE LEVEL (GEOPOTENTIAL DECAMETERS)

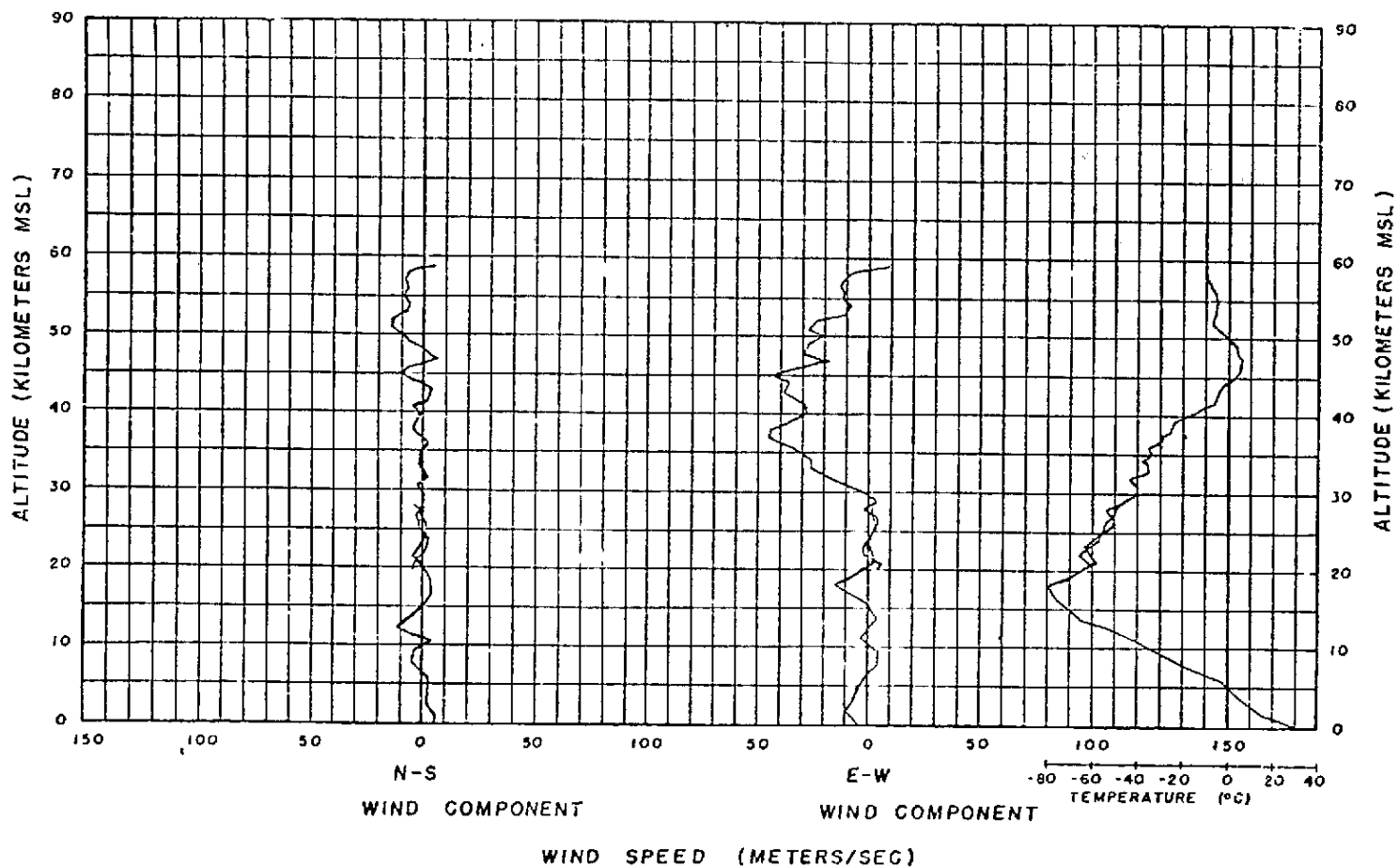
5468	54	14	-8	-12	-6	4.000E+01	5.208E+01	327
5028	63	30	-13	-26	-3	7.000E+01	9.029E+01	329
4741	91	29	1	-29	6	1.000E+00	1.247E+00	335
4184	95	34	-	-74	-6	2.000E+00	2.608E+00	327
3076	85	36	-3	-76	-22	3.000E+00	4.168E+00	317
3511	91	33	1	-33	-34	5.000E+00	7.277E+00	310
3274	87	26	-1	-26	-35	7.000E+00	1.026E+01	309
3036	74	7	-1	-6	-44	1.000E+01	1.527E+01	303
2581	290	4	-1	4	-53	2.000E+01	3.161E+01	297
2322	149	1	1	0	-59	3.000E+01	4.873E+01	293
2071	84	6	0	-6	-62	5.000E+01	8.263E+01	291

RAWINSOON OBSERVATION (HEIGHT IN GEOPOTENTIAL DECAMETERS)

2839	340	4	-3	1	-475	1.500E+01
2758	309	3	-1	2	-533	1.700E+01
2652	254	3	0	2	-511	2.000E+01
2620	243	3	1	2	-506	2.100E+01
2393	210	2	1	1	-591	3.000E+01
2299	200	1	0	0	-630	3.500E+01
2114	309	6	-3	4	-588	4.700E+01
2075	314	4	-2	2	-604	5.000E+01
1873	107	9	2	-8	-697	7.000E+01
1775	103	14	4	-13	-802	8.300E+01
1665	159	5	4	-1	-771	1.000E+02
1428	313	6	-4	4	-657	1.500E+02
1248	180	12	12	0	-526	2.000E+02
1100	140	5	3	-3	-420	2.500E+02
974	315	7	-4	4	-320	3.000E+02
764	293	12	-4	11	-153	4.000E+02
591	144	3	2	-1	-14	5.000E+02
316	105	9	2	-8	96	7.000E+02
152	114	12	4	-10	174	8.500E+02
11	143	9	7	-5	287	1.000E+03
4	150	8	6	-4	294	1.007E+03

SUPPLEMENTAL DATA

MOTOR	LOX1	PERFORM	GOOD
PAYLOAD	DATASOON	PERFORM	GOOD
RADAR TYPE	MPS-18/BEARN		
EF AZ ANG	074°	EF EL ANG	61°
PAYLOAD ACQUIS ALT	8085	R	TIME 231 SEC.
WIND SENSOR	1. FT. STAMITE		
TEMP SENSOR	.010 INCH BEAD		
SPEC SENSOR	NONE		
GRND EQUIP	GHC-1A		
RADIOSONDE TYPE	W/SPL / R3-21		
PRESS SHSR TYPE	AMERID		
TEMP CLMT TYPE	BIPENTAL		
BALLOON SIZE	400	GRAMS	
GROUND EQUIP			
REMARKS:			



FEB 18 1976 1434GMT

NATAL BRAZIL LOKI DATASOURCE BJ-7601

STA	YRMO0A	GMT	TA	WS	TS	A C	B C	WC	TC	WHT	WHB	THY	THH	SC	SHT	SHR	RT	RP	RSALT	HSPRES	RSTEM
B2599	760218	1434	-135	600	060	0 C	0 0	0	0					0			21	0	1870	7000	-746

SOLLING DATA (HEIGHT IN GEOMETRIC DECADETERS)

ALTITUDE	POLAR		COMPONENT		CORRECTED COMPONENT		FALL VFL	TEMPERATURE			PRESSURE	DENSITY	SOS	SPECIAL SENSOR
	DIR	SPD	N-S	E-W	N-S	E-W		DEG	C	COR				
	DEG	MPS	MPS	MPS	MPS	MPS								
6100							100	-20	-13		2.223E-01	3.213E-01	319	
6027							100	-15	-12		2.382E-01	3.213E-01	322	
6000	252	30	9	28			100	-14	-11		2.468E-01	5.732E-01	323	
5900	289	27	-8	25			100	-11	-10		2.805E-01	5.732E-01	325	
5800	306	19	-10	15			95	-7	-9		3.184E-01	5.732E-01	327	
5700	297	10	-5	8			87	-4	-8		3.609E-01	5.732E-01	329	
5600	266	5	0	4			83	-1	-7		4.084E-01	5.732E-01	331	
5516	85	4	0	-4			81	2	-6		4.526E-01	5.732E-01	333	
5500	85	6	-1	-6			80	1	-4		4.615E-01	6.811E-01	332	
5400	86	19	-1	-19			74	-6	-4		5.223E-01	6.811E-01	328	
5400	86	19	-1	-19			74	-6	-5		5.225E-01	6.811E-01	328	
5300	89	26	0	-26			69	-5	-5		5.918E-01	1.711E+00	328	
5200	87	28	-1	-28			65	-4	-4		6.705E-01	1.711E+00	329	
5100	89	33	-1	-33			61	-3	-4		7.591E-01	1.711E+00	330	
5000	86	31	-2	-31			57	-1	-4		8.590E-01	1.711E+00	330	
4900	73	26	-8	-25			54	-0	-3		9.716E-01	1.711E+00	331	
4800	73	29	-8	-28			51	1	-3		1.098E+00	1.711E+00	332	
4700	81	39	-6	-39			48	2	-3		1.241E+00	1.711E+00	333	
4628	86	48	-3	-47			45	3	-2		1.355E+00	1.711E+00	333	
4600	88	51	-2	-51			43	1	-2		1.402E+00	2.380E+00	332	
4500	89	57	-1	-57			42	-3	-2		1.586E+00	2.380E+00	329	
4400	87	59	-3	-59			40	-8	-2		1.799E+00	2.380E+00	326	
4396	87	59	-3	-59			40	-9	-2		1.808E+00	2.380E+00	326	
4300	87	62	-3	-62			37	-4	-2		2.041E+00	2.996E+00	329	
4200	89	61	-1	-61			35	0	-2		2.311E+00	2.996E+00	331	
4185	90	62	0	-62			35	0	-1		2.352E+00	2.996E+00	332	
4100	93	70	4	-70			33	-6	-1		2.615E+00	6.765E+00	328	
4000	92	62	2	-62			31	-13	-1		2.969E+00	6.765E+00	324	
3900	104	55	13	-53			29	-20	-1		3.383E+00	6.765E+00	319	
3800	90	51	0	-51			26	-26	-1		3.871E+00	6.765E+00	315	
3700	93	44	2	-44			24	-33	-1		4.445E+00	6.765E+00	310	
3673	95	43	3	-43			23	-35	-1		4.618E+00	6.765E+00	309	
3600	99	40	6	-40			22	-38	-1		5.121E+00	1.175E+01	309	
3500	100	38	7	-37			21	-36	-1		5.902E+00	1.175E+01	309	

SOUNDING DATA CONSTANT PRESSURE LEVELS (GEOPOTENTIAL DECAMETERS)

5553	275	6	0	6	-2	4.000E+01	5.143E-01	329
5109	88	30	-1	-30	-4	7.000E-01	9.062E-01	328
4826	73	27	-8	-26	-1	1.000E+00	1.280E+00	330
4275	87	62	-3	-61	-5	2.000E+00	2.602E+00	328
3958	93	62	3	-61	-10	3.000E+00	3.969E+00	325
3587	98	41	6	-40	-35	5.000E+00	7.328E+00	309
3353	101	33	6	-33	-36	7.000E+00	1.078E+01	308
3107	82	23	-3	-23	-41	1.000E+01	1.499E+01	305
2647	54	7	-4	-6	-52	2.000E+01	3.150E+01	298
2391	206	7	6	3	-58	3.000E+01	4.853E+01	294
2071	88	6	0	-6	-62	5.000E+01	8.263E+01	291

RAWINSONDE OBSERVATION (HEIGHT IN GEOPOTENTIAL DECAMETERS)

2239	150	5	4	-2	-617	3.800E+01
2071	102	7	1	-6	-657	5.000E+01
1995	139	1	0	0	-676	5.700E+01
1870	239	5	2	4	-746	7.000E+01
1840	230	5	3	3	-765	7.400E+01
1775	179	3	2	0	-742	8.300E+01
1740	169	5	4	0	-805	8.800E+01
1665	180	7	7	0	-787	1.000E+02
1425	116	24	10	-21	-628	1.500E+02
1244	90	18	0	-18	-522	2.000E+02
1096	89	15	0	-14	-411	2.500E+02
969	91	9	0	-8	-309	3.000E+02
758	87	17	0	-16	-147	4.000E+02
586	105	15	3	-14	-68	5.000E+02
316	127	5	3	-3	82	7.000E+02
153	152	8	7	-3	163	8.500E+02
11	135	8	5	-5	291	1.000E+03
4	130	6	3	-8	298	1.007E+03

SUPPLEMENTAL DATA			
MOTOR	LOKI	PERFORM	GOOD
PAYLOAD	DATASOUND	PERFORM	GOOD
RADAR TYPE NPS-10/BEARY			
EF AZ ANG	053°	EF EL ANG	76°
PAYLOAD ACQUIS ALT	61847	M	TIME 219 SEC.
WIND SENSOR	7.77. STARITE		
TEMP SENSOR	.010 INCH BEAD		
SPEC SENSOR	ROHE		
GRND EQUIP	GND-1A		
RAWINSONDE TYPE - WAFORAL-4-MS421			
PRESS SENS TYPE	ANDROID		
TEMP ELANT TYPE	BIMETAL		
BALLOON SIZE	850		GRAMS
GROUND EQUIP	GND-1A		
REMARKS:			

