

REPORT AQRB-82-002-T

APPENDIX B TO
THE EAST SAINT JOHN DISPERSION STUDY
JULY 22 TO AUGUST 5, 1981

BY

R.M. HOFF

NON-CIRCULATING

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82-002T
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REPORT AQRB-82-002-T

APPENDIX B TO
THE EAST SAINT JOHN DISPERSION STUDY
JULY 22 TO AUGUST 5, 1981

BY

R.M. HOFF

MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 1

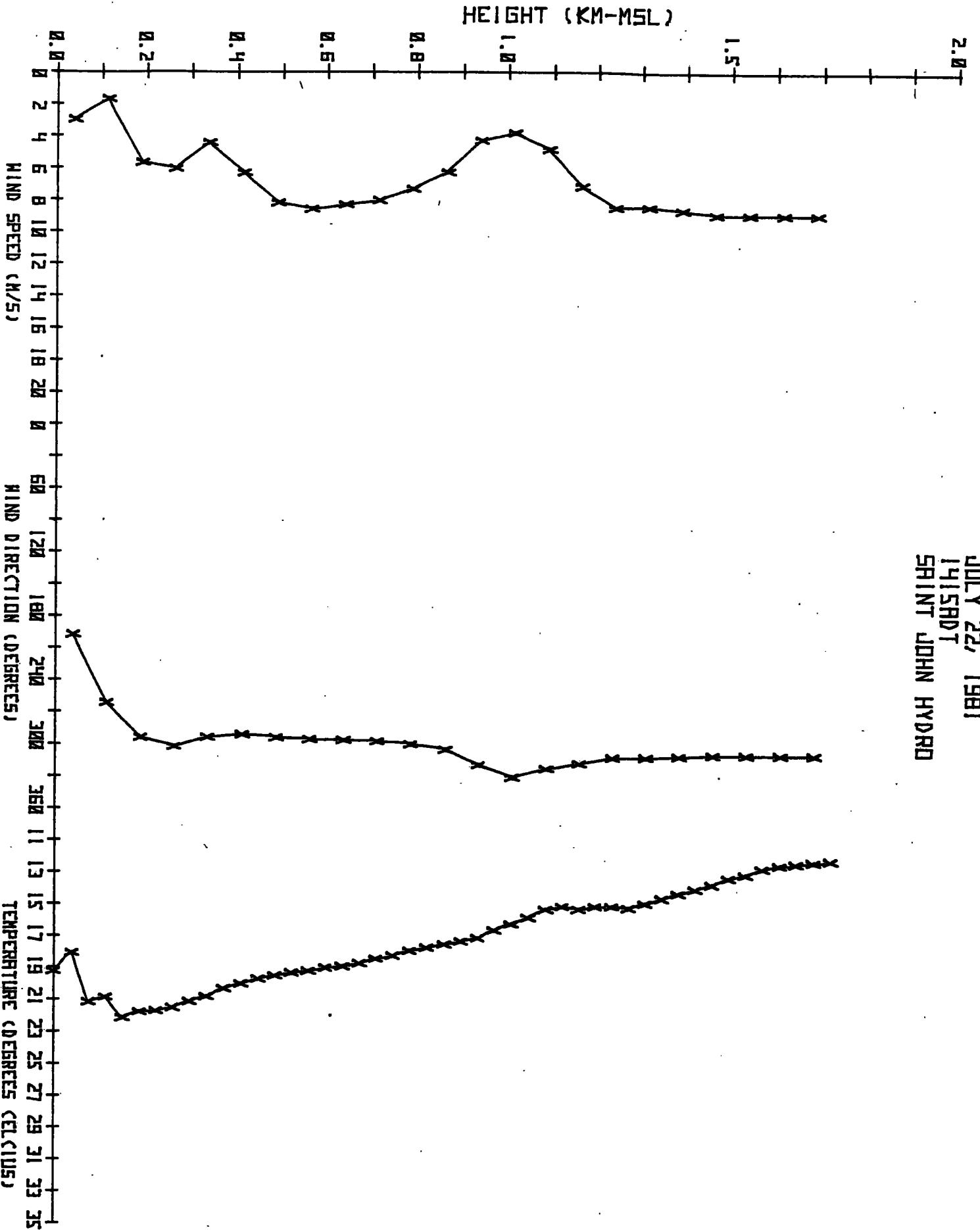
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 1

DATE JULY 22, 1981 TIME 1415ADT

BLINE 182.3 GPA 0.0 BRG 2

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	3			19.3	SURFACE CONDITIONS	
1	40	3.0	198	18.1	78	21.2
2	115	1.7	262	20.9	153	22.2
3	190	5.7	294	21.8	228	21.7
4	265	6.1	302	21.5	303	21.1
5	340	4.4	293	20.8	378	20.3
6	415	6.3	291	20.0	453	19.7
7	490	8.2	294	19.5	528	19.3
8	565	8.6	295	19.2	603	19.0
9	640	8.3	296	18.9	678	18.7
10	715	8.0	297	18.4	753	18.2
11	790	7.3	299	17.9	828	17.7
12	865	6.3	304	17.5	903	17.3
13	940	4.3	318	17.1	978	16.6
14	1015	3.8	330	16.2	1053	15.8
15	1090	4.8	322	15.3	1128	15.1
16	1165	7.1	317	15.3	1203	15.1
17	1240	8.4	311	15.1	1278	15.2
18	1315	8.4	311	14.9	1353	14.6
19	1390	8.6	310	14.3	1428	14.0
20	1465	8.9	309	13.7	1503	13.3
21	1540	8.9	309	13.1	1578	12.7
22	1615	8.9	309	12.5	1653	12.4
23	1690	8.9	309	12.3	1728	12.2

JULY 22, 1981
1415RDT
SRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 2

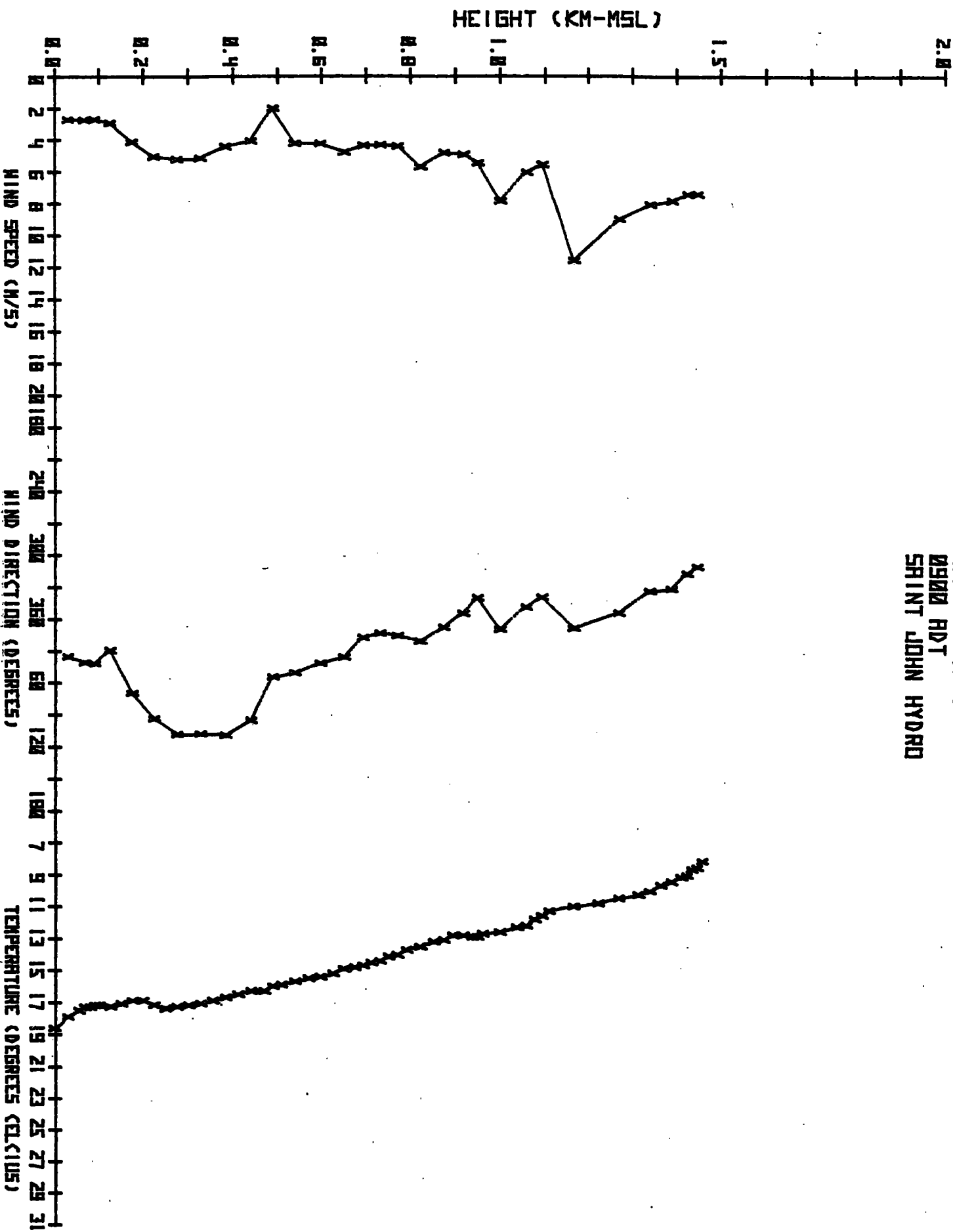
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 2

DATE JULY 23,1981 TIME 0900 ADT

BLINE 274.4 GPA -0.2 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	5			18.7		
1	30	2.7	35	17.9	55	17.5
2	67	2.7	41	17.3	80	17.3
3	90	2.7	42	17.2	101	17.2
4	126	2.9	29	17.3	150	17.1
5	175	4.1	70	16.9	200	16.9
6	225	5.1	94	17.2	250	17.4
7	276	5.2	109	17.3	303	17.2
8	329	5.1	108	17.1	356	16.9
9	384	4.4	109	16.7	412	16.5
10	441	4.1	95	16.3	471	16.3
11	491	2.0	54	16.0	510	15.9
12	540	4.2	50	15.7	571	15.5
13	599	4.2	41	15.4	628	15.2
14	652	4.8	35	14.9	676	14.8
15	695	4.3	17	14.7	714	14.5
16	733	4.3	13	14.4	752	14.1
17	773	4.4	15	14.0	793	13.7
18	823	5.7	20	13.5	853	13.2
19	875	4.8	7	13.1	897	12.8
20	919	4.9	354	12.8	940	12.9
21	952	5.4	340	12.9	964	12.7
22	1002	7.8	9	12.6	1041	12.3
23	1060	6.0	348	12.2	1079	11.8
24	1096	5.5	339	11.6	1112	11.3
25	1168	11.5	8	11.0	1225	10.8
26	1271	8.9	354	10.5	1316	10.3
27	1342	8.0	334	10.1	1367	9.7
28	1391	7.8	332	9.5	1414	9.2
29	1426	7.4	318	9.1	1437	8.7
30	1449	7.4	311	8.6	1461	8.2

JULY 23, 1981
0900 PDT
SRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 3

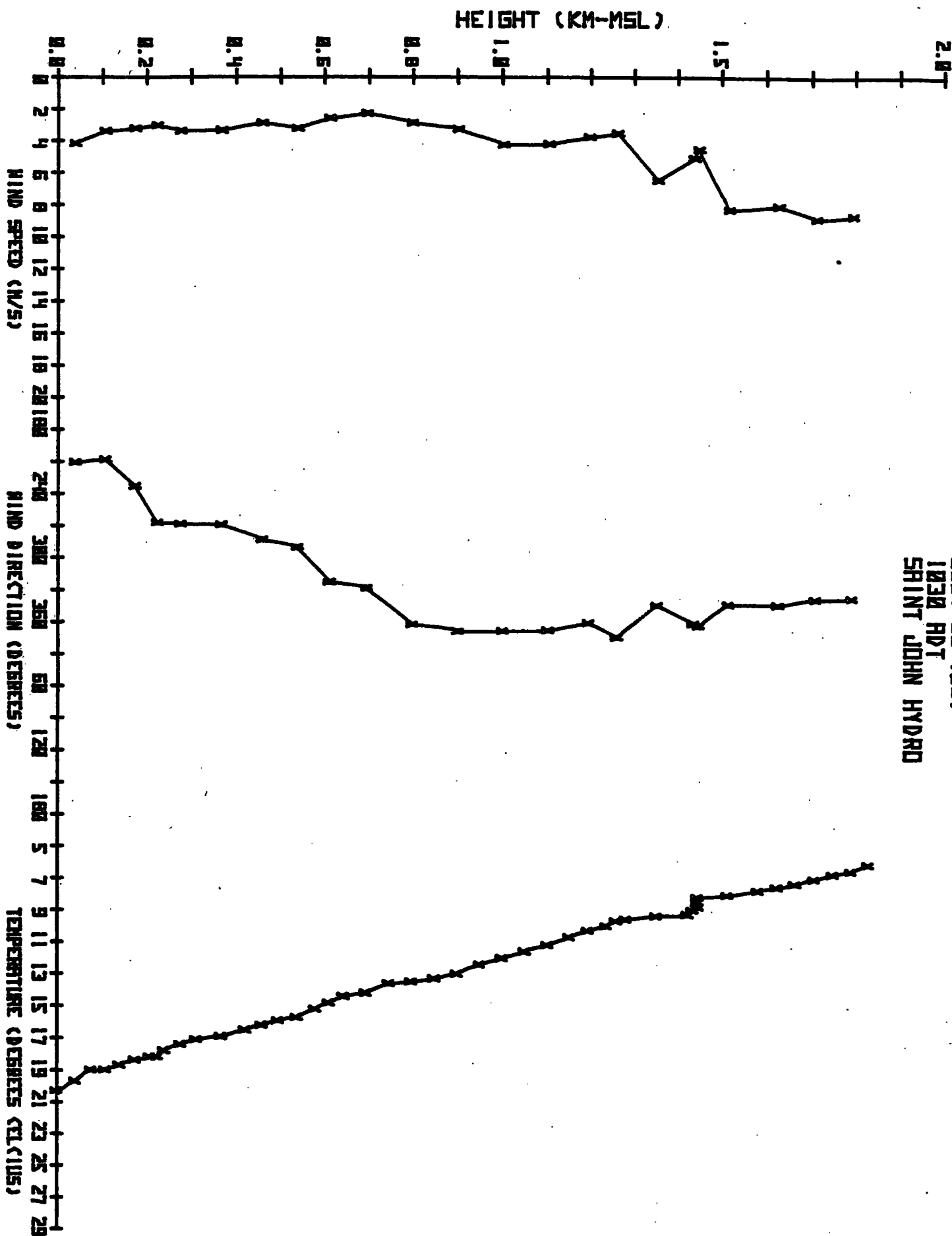
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 3

DATE JULY 23 1981 TIME 1030 ADT

BLINE 274.4 GPA -0.2 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	3			20.4	SURFACE CONDITIONS	
1	40	4.2	211	19.7	76	19.0
2	108	3.4	208	19.0	140	18.7
3	175	3.2	233	18.4	210	18.2
4	226	3.0	268	18.2	242	17.8
5	278	3.4	269	17.4	315	17.1
6	369	3.3	269	16.9	423	16.5
7	461	2.9	283	16.2	498	15.9
8	540	3.2	290	15.7	581	15.2
9	614	2.6	323	14.8	646	14.4
10	697	2.3	328	14.2	748	13.6
11	799	2.9	2	13.5	851	13.3
12	902	3.3	9	13.0	953	12.4
13	1004	4.2	8	12.0	1055	11.6
14	1106	4.2	8	11.2	1156	10.7
15	1199	3.7	1	10.3	1242	10.0
16	1264	3.5	14	9.7	1285	9.6
17	1356	6.4	344	9.4	1427	9.3
18	1438	5.0	2	9.0	1450	8.8
19	1450	4.5	4	8.5	1449	8.2
20	1519	8.2	344	8.1	1588	7.8
21	1629	8.0	344	7.6	1671	7.4
22	1713	8.9	339	7.1	1755	6.8
23	1795	8.7	338	6.6	1836	6.2
24	1863	8.1	336	6.0	1890	5.7
25	1925	8.8	330	5.5	1960	5.1
26	1995	8.8	330	4.8	2030	4.4
27	2065	8.8	330	4.3	2100	4.0
28	2135	8.8	330	3.7	2170	3.4

JULY 23 1981
1030 HDT
SRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 4

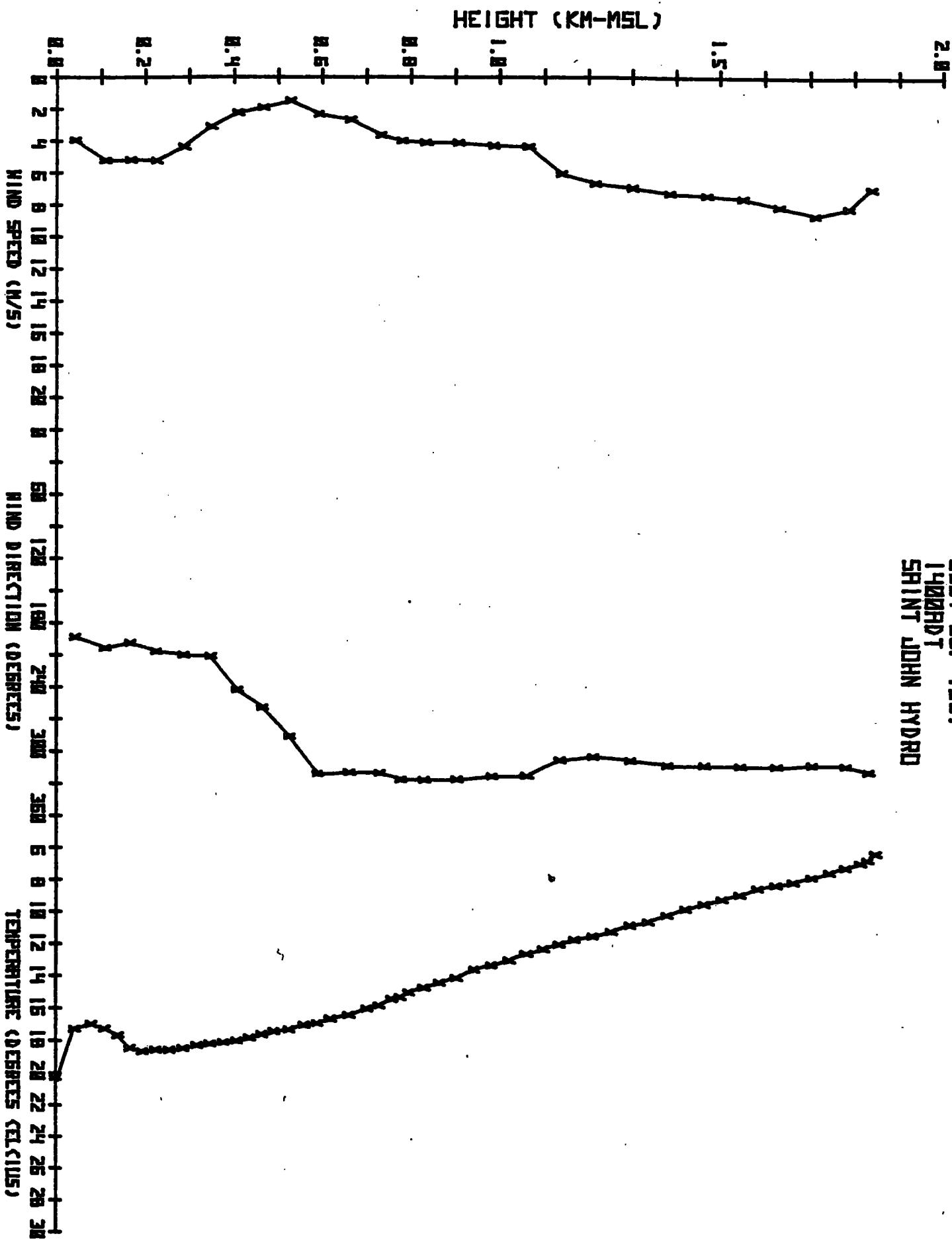
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 4

DATE JULY 23, 1981 TIME 1400ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	5			20.4	SURFACE CONDITIONS	
1	43	3.9	193	17.3	81	17.0
2	111	5.2	204	17.3	142	17.7
3	169	5.2	199	18.5	197	18.7
4	228	5.2	207	18.6	259	18.6
5	290	4.4	210	18.5	322	18.3
6	351	3.1	211	18.2	381	18.1
7	410	2.2	242	18.0	439	17.8
8	467	1.9	259	17.6	495	17.4
9	529	1.5	286	17.3	563	17.0
10	593	2.3	320	16.9	624	16.6
11	665	2.7	319	16.4	706	16.0
12	734	3.6	320	15.8	762	15.4
13	781	4.0	326	15.3	800	15.0
14	834	4.1	326	14.7	868	14.4
15	908	4.1	325	14.1	948	13.6
16	988	4.3	322	13.3	1028	13.0
17	1066	4.3	322	12.6	1105	12.3
18	1140	6.0	307	12.0	1175	11.7
19	1218	6.6	304	11.5	1260	11.2
20	1303	6.9	308	10.8	1345	10.6
21	1387	7.2	312	10.2	1430	9.8
22	1472	7.4	313	9.5	1514	9.2
23	1554	7.6	313	8.9	1594	8.5
24	1634	8.1	313	8.3	1674	8.1
25	1714	8.7	312	7.8	1754	7.5
26	1789	8.2	313	7.2	1824	6.9
27	1841	7.0	318	6.7	1858	6.3
28	1875	7.0	318	6.0	1892	5.7

JULY 23, 1981
 1400HDT
 SRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 5

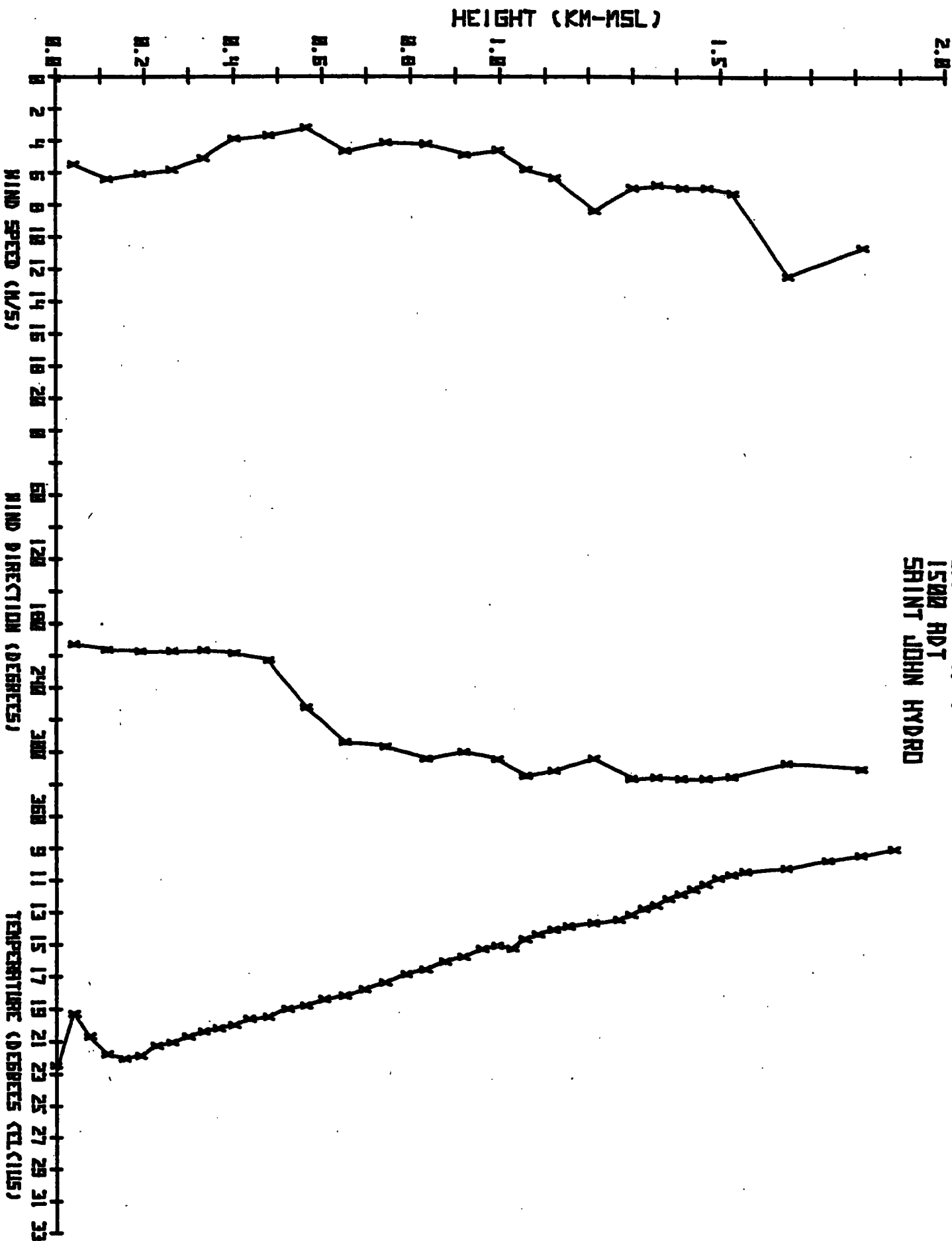
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 5

DATE JULY 23 1981 TIME 1500 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	6			22.6		
1	42	5.5	200	19.3	77	20.7
2	116	6.4	205	21.8	155	22.1
3	192	6.1	206	21.9	229	21.3
4	264	5.8	206	21.1	300	20.7
5	334	5.1	205	20.4	368	20.2
6	402	3.9	208	20.0	437	19.6
7	480	3.7	215	19.5	523	19.0
8	565	3.2	259	18.8	607	18.4
9	653	4.7	291	18.2	698	17.8
10	745	4.1	295	17.4	792	16.9
11	835	4.2	307	16.6	878	16.1
12	921	4.9	300	15.8	964	15.3
13	997	4.6	307	15.1	1031	15.3
14	1059	5.8	323	14.7	1088	14.4
15	1123	6.3	318	14.1	1158	13.9
16	1216	8.4	307	13.7	1273	13.5
17	1301	6.9	325	13.2	1329	12.8
18	1358	6.8	324	12.6	1386	12.2
19	1414	6.9	325	11.9	1442	11.6
20	1471	6.9	325	11.3	1499	10.9
21	1529	7.3	324	10.7	1560	10.5
22	1652	12.5	311	10.3	1744	9.8
23	1819	10.7	317	9.5	1894	9.1
24	1917	7.2	326	8.8	1940	8.5
25	1965	7.5	325	8.1	1989	7.7
26	2079	12.4	317	7.3	2168	6.8
27	2258	12.4	317	6.3	2348	5.8
28	2421	11.9	314	5.5	2494	5.3
29	2511	7.2	322	5.1	2529	4.9
30	2538	6.4	318	4.5	2548	4.1

JULY 23 1981
1500 ADT
SRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 6

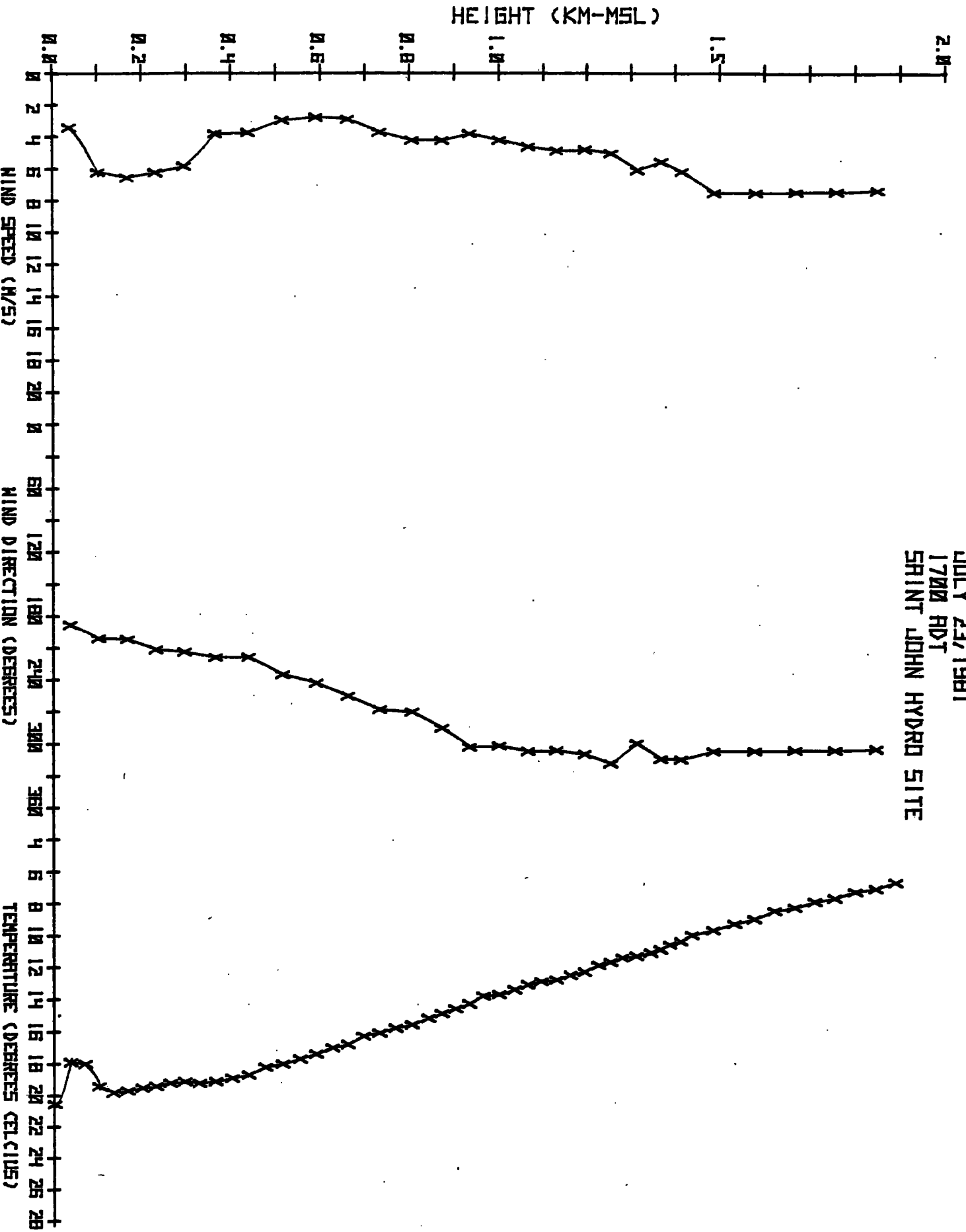
STATION SAINT JOHN HYDRO SITE STATION HEIGHT 3 FLIGHT 6

DATE JULY 23,1981 TIME 1700 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
					SURFACE CONDITIONS	
0	6			20.6		
1	38	3.4	188	17.9	71	18.0
2	103	6.2	201	19.4	135	19.8
3	167	6.6	202	19.7	200	19.5
4	232	6.2	211	19.4	263	19.2
5	296	5.8	213	19.1	328	19.2
6	365	3.8	219	19.1	402	18.9
7	440	3.7	219	18.7	477	18.2
8	515	3.0	235	18.0	554	17.7
9	591	2.8	243	17.4	627	17.0
10	662	2.9	255	16.8	697	16.3
11	733	3.7	268	16.1	769	15.8
12	806	4.2	270	15.6	843	15.2
13	873	4.2	285	14.9	903	14.6
14	935	3.8	303	14.3	966	13.8
15	1001	4.2	302	13.7	1036	13.4
16	1066	4.6	307	13.1	1096	12.9
17	1130	4.9	306	12.8	1164	12.5
18	1196	4.8	310	12.3	1228	11.9
19	1254	5.0	319	11.7	1281	11.4
20	1314	6.1	300	11.3	1346	11.1
21	1368	5.5	314	10.9	1389	10.6
22	1415	6.2	315	10.4	1440	10.0
23	1488	7.5	307	9.7	1536	9.3
24	1580	7.5	307	9.0	1625	8.5
25	1670	7.4	306	8.3	1714	7.9
26	1759	7.4	306	7.7	1804	7.3
27	1849	7.3	305	7.1	1893	6.7
28	1938	7.1	301	6.5	1983	6.1
29	2027	7.1	301	5.8	2072	5.4
30	2117	7.1	301	5.3	2162	5.0

JULY 23, 1981
1700 ADT
SPRINT JOHN HYDRO SITE



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 7

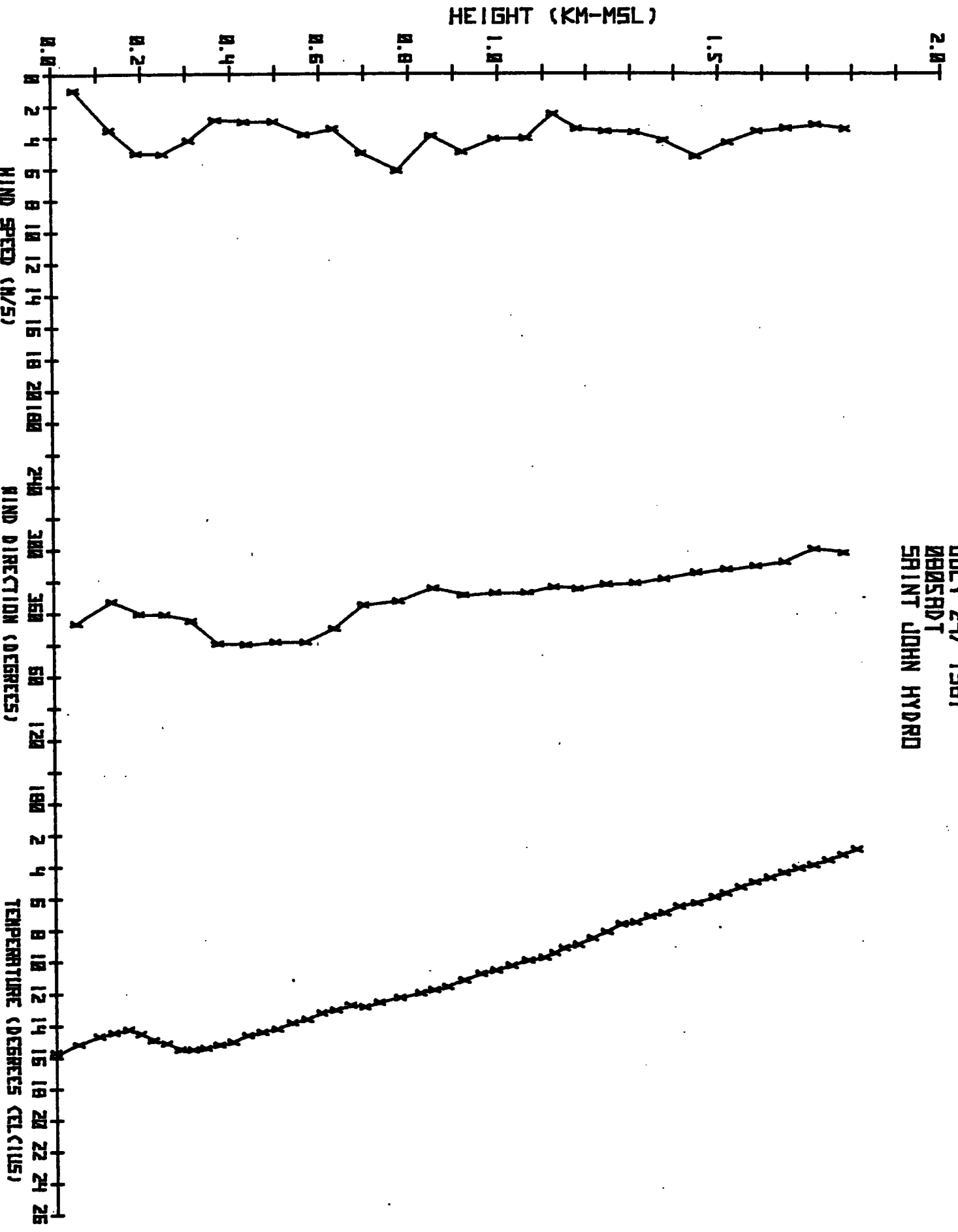
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 7

DATE JULY 24, 1981 TIME 0805ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
					SURFACE CONDITIONS	
0	5			15.8		
1	51	1.0	10	15.2	97	14.7
2	131	3.6	349	14.5	164	14.3
3	192	5.1	1	14.6	220	15.0
4	250	5.1	1	15.2	281	15.6
5	309	4.2	8	15.6	338	15.5
6	368	2.9	29	15.3	398	15.1
7	431	3.1	30	14.7	465	14.5
8	499	3.0	27	14.3	533	13.9
9	565	3.9	28	13.7	598	13.3
10	631	3.5	15	13.1	663	12.8
11	696	5.0	352	12.9	729	12.6
12	776	6.1	349	12.3	822	12.0
13	852	3.9	337	11.8	881	11.6
14	920	5.0	344	11.2	959	10.8
15	993	4.1	341	10.6	1027	10.3
16	1064	4.1	341	10.0	1100	9.8
17	1123	2.6	336	9.5	1147	9.2
18	1179	3.5	338	9.0	1212	8.6
19	1245	3.7	334	8.2	1278	7.7
20	1311	3.7	332	7.6	1343	7.2
21	1377	4.2	328	7.0	1410	6.6
22	1451	5.3	322	6.4	1491	6.0
23	1525	4.3	318	5.7	1559	5.3
24	1591	3.5	315	5.0	1624	4.7
25	1656	3.3	311	4.4	1689	4.1
26	1721	3.1	299	3.9	1753	3.6
27	1786	3.4	303	3.3	1819	2.9
28	1864	4.3	304	2.6	1909	2.2
29	1938	3.9	299	1.8	1966	1.5
30	1995	3.4	303	1.4	2024	1.2

JULY 24, 1981
0805RDT
SRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 8

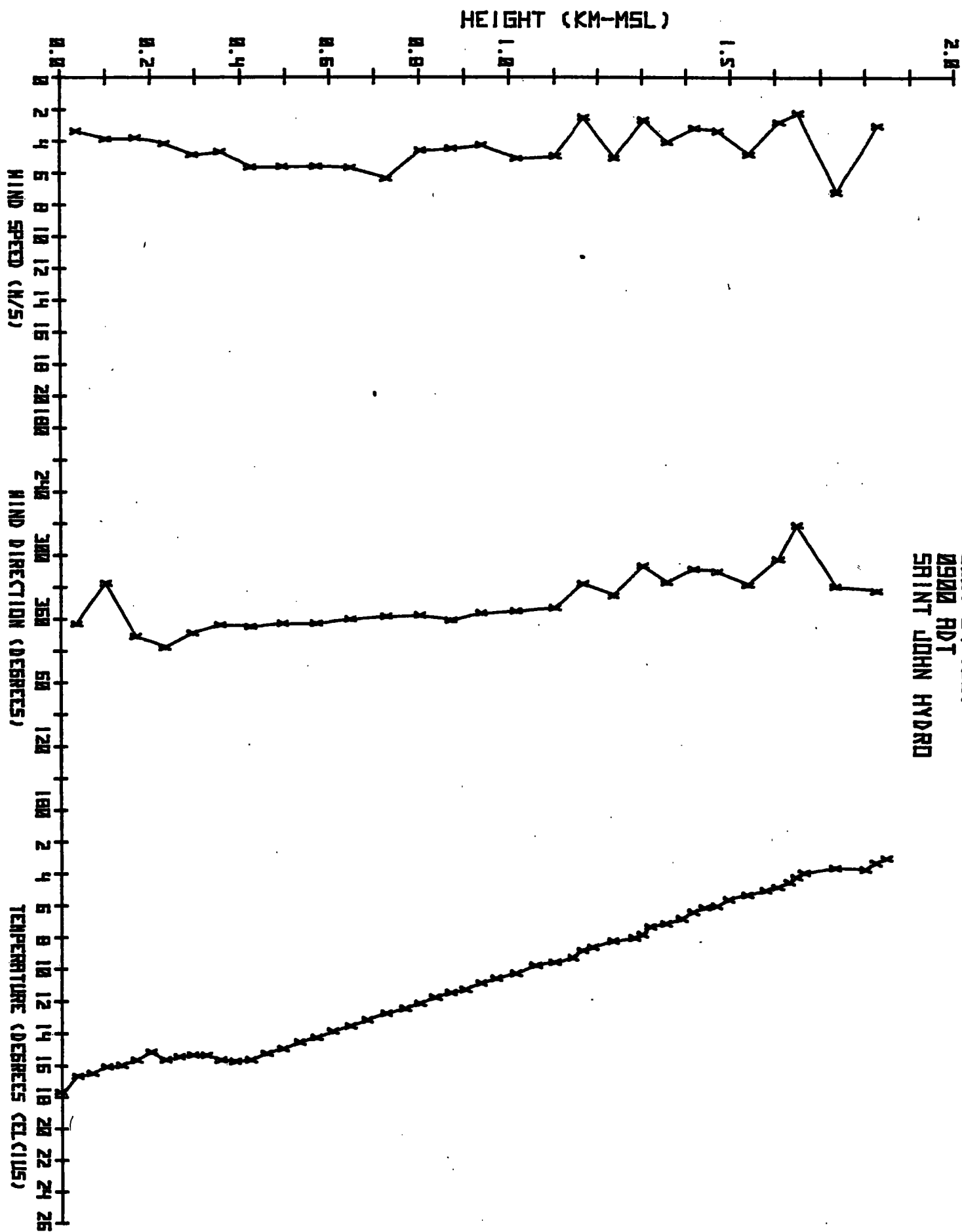
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 8

DATE JULY 24 1981 TIME 0900 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
					SURFACE CONDITIONS	
0	4			17.8		
1	37	3.4	5	16.7	69	16.5
2	102	3.9	326	16.1	135	16.0
3	169	3.8	17	15.7	202	15.2
4	233	4.2	27	15.7	265	15.5
5	295	4.9	13	15.4	326	15.4
6	358	4.7	6	15.7	389	15.8
7	424	5.7	8	15.7	459	15.3
8	496	5.6	4	15.0	534	14.6
9	572	5.6	4	14.3	609	13.9
10	648	5.7	360	13.6	686	13.2
11	728	6.4	358	12.8	771	12.5
12	805	4.6	357	12.2	838	11.8
13	871	4.5	2	11.5	905	11.3
14	940	4.3	355	10.9	974	10.6
15	1018	5.1	353	10.3	1062	9.8
16	1104	5.0	350	9.6	1146	9.3
17	1169	2.5	327	8.9	1192	8.7
18	1239	5.1	338	8.3	1287	8.1
19	1305	2.7	310	7.9	1323	7.4
20	1359	4.1	326	7.2	1395	6.9
21	1420	3.2	314	6.5	1446	6.2
22	1474	3.4	316	6.1	1502	5.7
23	1543	4.9	329	5.4	1585	5.1
24	1610	2.8	304	4.9	1636	4.6
25	1653	2.2	272	4.3	1669	4.0
26	1738	7.3	330	3.7	1807	3.8
27	1830	3.1	335	3.4	1854	3.1
28	1899	7.1	351	2.8	1945	2.9
29	1979	7.2	350	3.7	2014	3.8
30	2050	8.1	352	3.7	2086	3.5

JULY 24 1981
0900 PDT
SRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 9

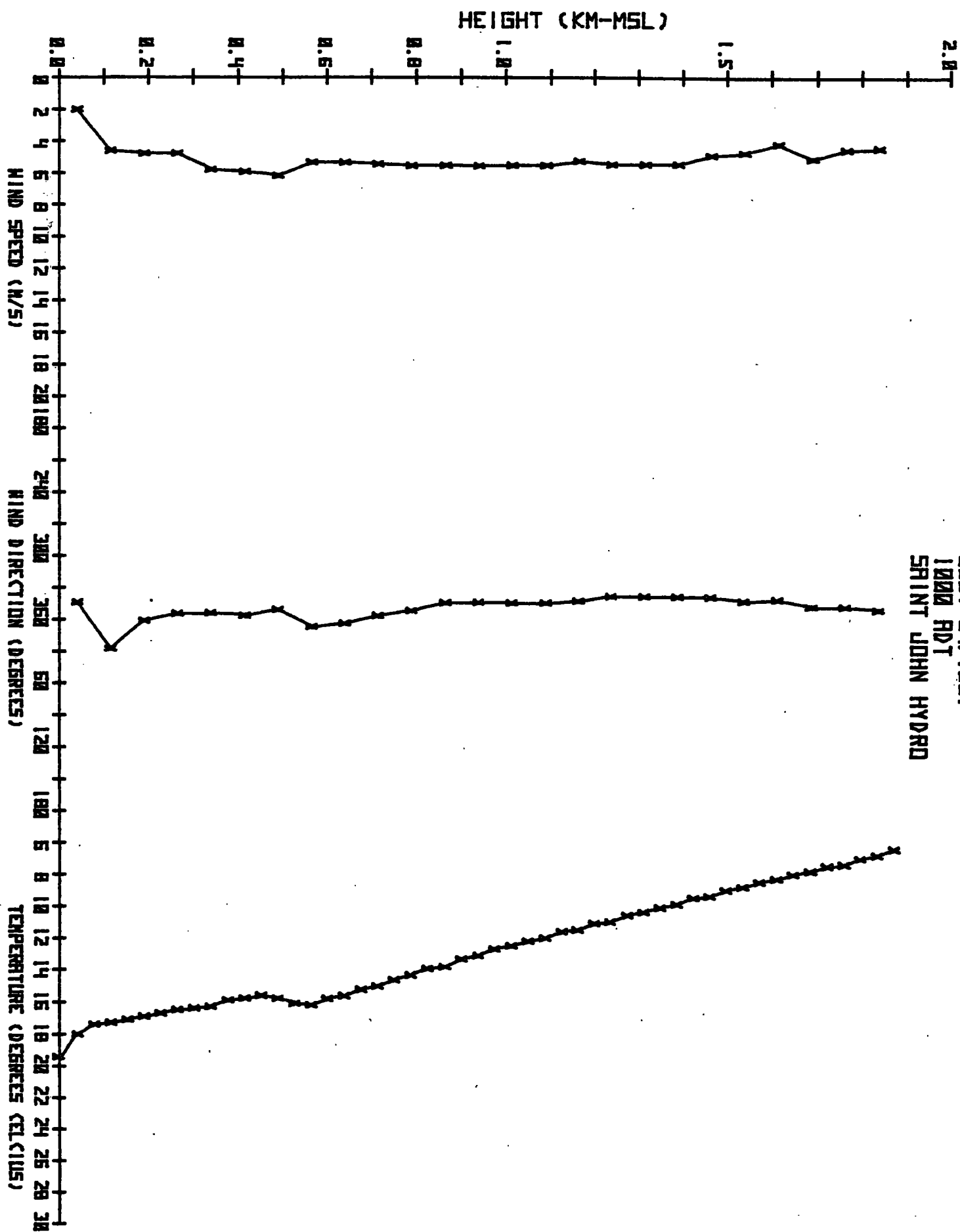
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 9

DATE JULY 24,1981 TIME 1000 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	4			19.5	SURFACE CONDITIONS	
1	41	2.0	344	18.0	79	17.4
2	116	4.6	27	17.3	154	17.1
3	191	4.8	1	16.9	229	16.7
4	266	4.8	354	16.5	304	16.4
5	341	5.8	354	16.3	379	15.9
6	416	5.9	356	15.8	454	15.6
7	491	6.2	350	15.8	529	16.1
8	566	5.3	7	16.2	604	15.8
9	641	5.3	3	15.6	679	15.2
10	716	5.4	356	15.0	754	14.6
11	791	5.5	352	14.3	829	13.9
12	866	5.5	344	13.8	904	13.3
13	941	5.5	344	13.1	979	12.7
14	1016	5.5	344	12.5	1054	12.2
15	1091	5.5	344	12.0	1129	11.6
16	1166	5.2	342	11.5	1204	11.1
17	1241	5.4	338	11.0	1279	10.6
18	1316	5.4	338	10.4	1354	10.1
19	1391	5.4	338	9.9	1429	9.5
20	1466	4.9	339	9.4	1504	9.0
21	1541	4.7	343	8.8	1579	8.5
22	1616	4.2	341	8.3	1654	8.0
23	1691	5.1	348	7.8	1729	7.5
24	1766	4.5	348	7.4	1804	7.0
25	1841	4.4	351	6.8	1879	6.4
26	1916	5.2	354	6.2	1954	5.8
27	1991	5.6	354	5.6	2029	5.3
28	2066	9.1	359	5.5	2104	5.7
29	2141	9.1	359	5.7	2179	5.6
30	2216	9.1	359	5.5	2254	5.2

JULY 24, 1981
1000 RDT
SPRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 10

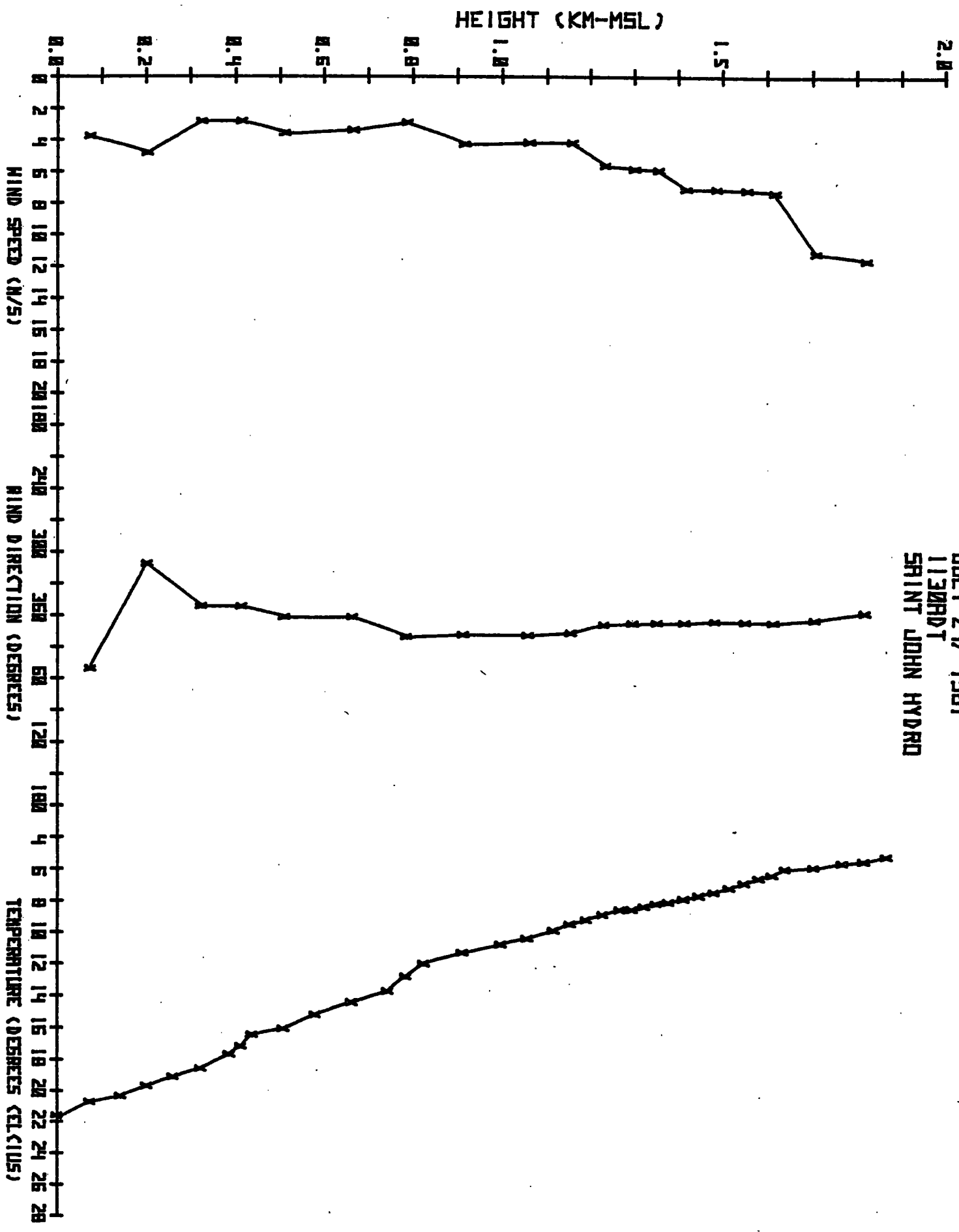
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 10

DATE JULY 24, 1981 TIME 1130ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	5			21.7		
1	75	3.7	51	20.7	144	20.3
2	204	4.8	311	19.7	264	19.1
3	327	2.8	351	18.6	390	17.7
4	415	2.8	351	17.2	440	16.5
5	512	3.6	2	16.1	583	15.2
6	666	3.4	1	14.4	748	13.7
7	789	2.9	20	12.8	830	12.0
8	917	4.3	18	11.3	1004	10.8
9	1062	4.2	18	10.4	1121	9.9
10	1159	4.2	16	9.5	1197	9.2
11	1236	5.6	9	8.9	1274	8.6
12	1301	5.8	7	8.6	1329	8.4
13	1357	5.9	7	8.2	1384	8.1
14	1419	7.1	7	7.9	1454	7.7
15	1489	7.1	6	7.5	1524	7.2
16	1557	7.2	6	6.9	1590	6.6
17	1619	7.3	7	6.4	1648	6.0
18	1711	11.2	4	5.9	1774	5.6
19	1825	11.6	357	5.5	1876	5.2
20	1926	11.4	2	5.1	1977	5.1
21	2027	11.5	3	5.1	2078	5.0
22	2129	12.6	360	4.8	2179	4.6
23	2230	12.7	360	4.4	2281	4.3
24	2331	12.7	360	4.2	2382	4.1
25	2432	12.2	356	4.0	2483	4.1
26	2534	11.8	356	3.9	2584	3.9
27	2635	11.8	356	3.8	2685	3.8
28	2736	11.9	353	3.6	2787	3.4
29	2837	12.0	351	3.3	2888	3.0
30	2938	12.0	351	2.7	2989	2.4

JULY 24, 1981
1130ZDT
SRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 11

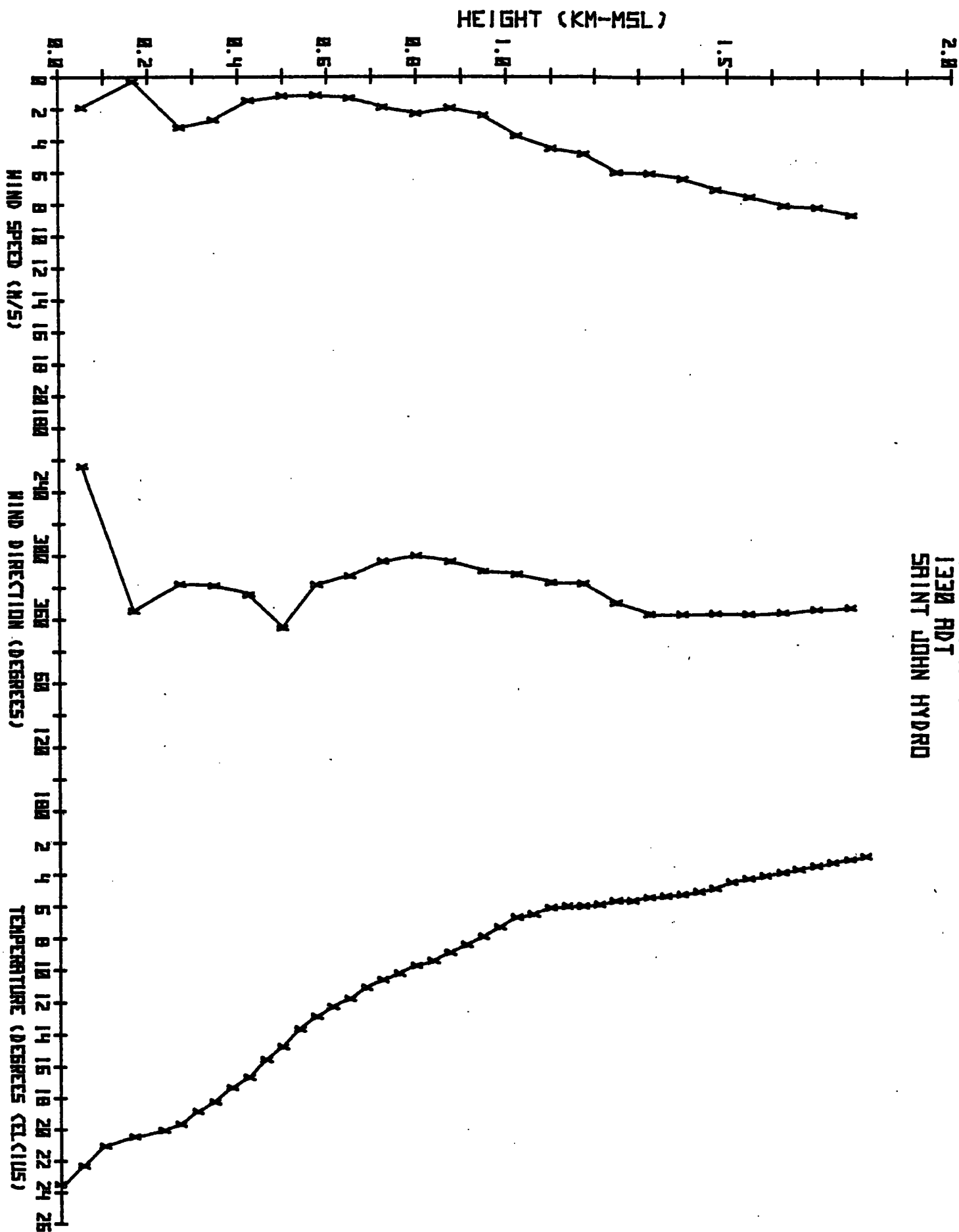
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 11

DATE JULY 24 1981 TIME 1330 ADT

BLINE. 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	5			23.6		
1	53	1.9	216	22.3	101	21.0
2	168	0.3	352	20.4	235	20.0
3	273	3.2	327	19.6	311	18.8
4	349	2.7	328	18.2	387	17.3
5	425	1.5	337	16.7	463	15.6
6	501	1.2	8	14.8	539	13.7
7	577	1.2	327	12.9	614	12.3
8	652	1.3	319	11.8	689	11.1
9	726	1.9	305	10.6	764	10.2
10	801	2.3	300	9.7	839	9.4
11	876	1.9	305	8.9	914	8.4
12	951	2.4	315	7.9	989	7.3
13	1026	3.7	318	6.7	1064	6.5
14	1101	4.5	325	6.1	1139	6.0
15	1176	4.8	326	6.0	1214	5.9
16	1251	6.0	345	5.7	1289	5.7
17	1326	6.0	356	5.5	1364	5.4
18	1401	6.4	356	5.3	1439	5.1
19	1476	7.1	355	4.9	1514	4.5
20	1551	7.5	355	4.3	1589	4.1
21	1626	8.1	354	3.9	1664	3.7
22	1701	8.2	351	3.5	1739	3.3
23	1776	8.7	350	3.1	1814	2.9
24	1851	11.4	347	2.7	1889	2.6
25	1926	11.3	348	2.6	1963	2.4
26	2001	11.3	348	2.3	2038	2.3
27	2078			2.3	2117	2.2
28	2156			2.1	2195	2.1
29	2234			2.0	2273	2.0
30	2312			2.0	2351	1.8

JULY 24 1981
1330 ADT
SRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 12

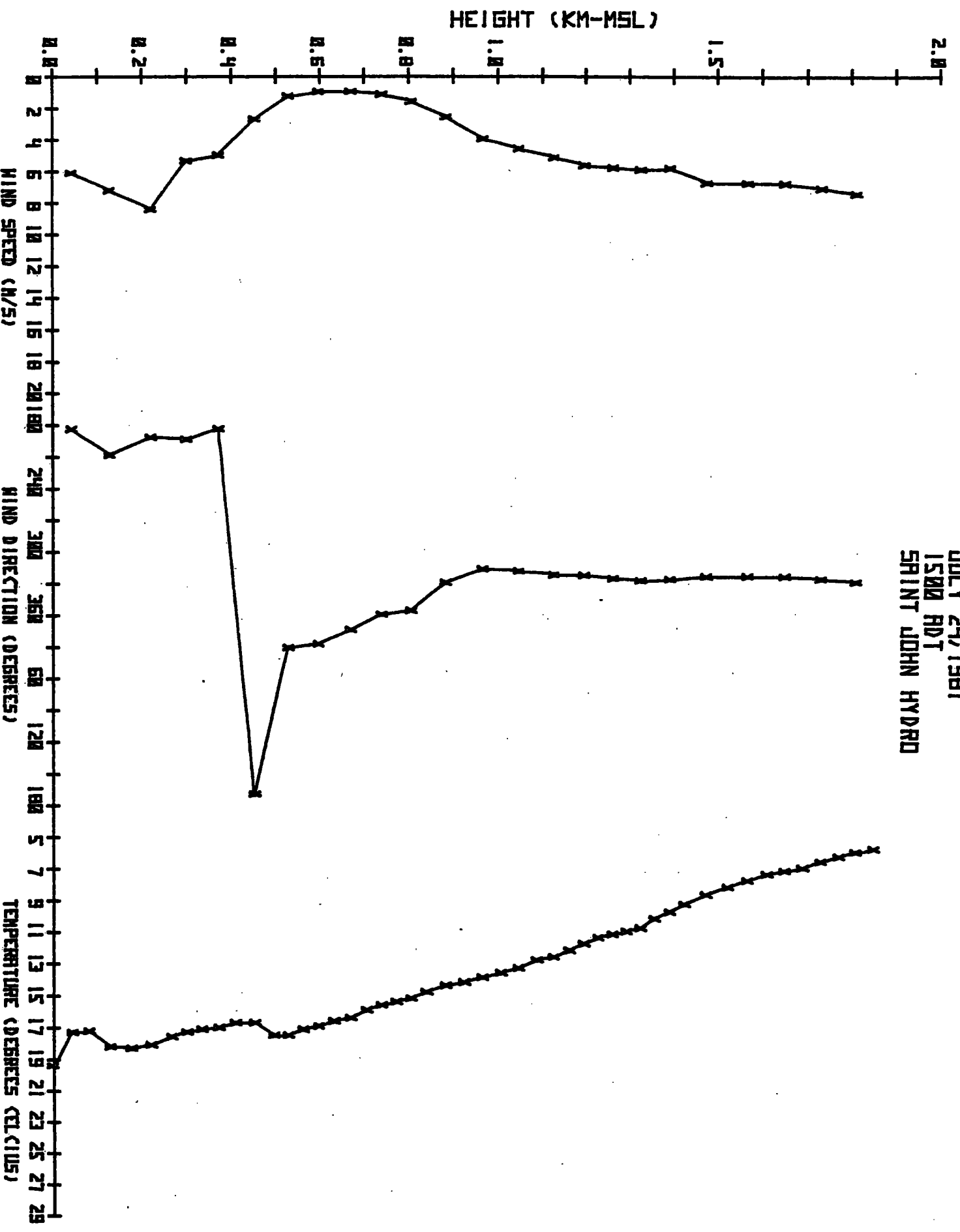
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 12

DATE JULY 24,1981 TIME 1500 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	3			19.5	SURFACE CONDITIONS	
1	42	6.1	184	17.3	81	17.2
2	128	7.2	208	18.2	175	18.3
3	221	8.4	191	18.1	267	17.6
4	301	5.3	193	17.3	335	17.1
5	372	5.0	183	17.0	409	16.7
6	453	2.7	169	16.7	497	17.5
7	529	1.2	31	17.5	562	17.1
8	597	1.0	27	16.9	633	16.6
9	670	1.0	13	16.4	707	15.9
10	740	1.1	359	15.6	773	15.4
11	807	1.6	355	15.2	841	14.8
12	883	2.6	329	14.4	926	14.2
13	967	3.9	316	13.9	1009	13.6
14	1049	4.6	318	13.3	1088	12.8
15	1126	5.1	322	12.6	1164	12.2
16	1197	5.6	322	11.8	1230	11.4
17	1262	5.7	325	11.2	1294	11.0
18	1326	5.9	327	10.8	1358	10.2
19	1393	5.8	326	9.8	1427	9.3
20	1476	6.7	324	8.7	1525	8.2
21	1569	6.7	324	7.8	1613	7.4
22	1653	6.8	324	7.2	1693	7.0
23	1732	7.1	326	6.6	1772	6.3
24	1812	7.4	329	6.0	1852	5.8
25	1892	8.4	341	5.6	1932	5.1
26	1965	8.6	343	4.1	1999	4.4
27	2035	8.3	347	4.2	2071	3.7
28	2094	7.1	358	3.4	2117	3.4
29	2140	7.3	2	3.2	2163	3.0
30	2193	8.2	359	2.8	2222	2.7

JULY 24, 1981
1500 RDT
SRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 13

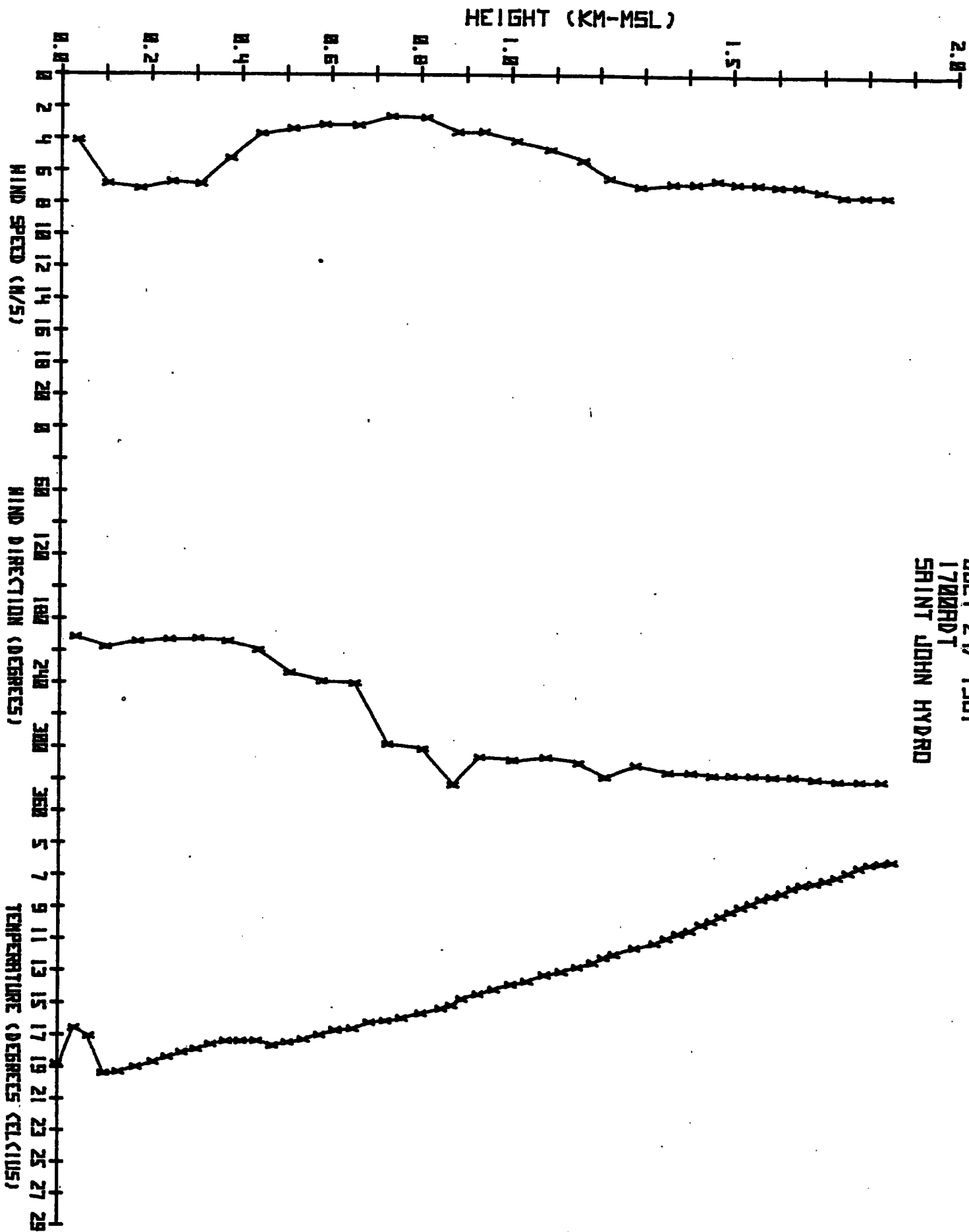
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 13

DATE JULY 24, 1981 TIME 1700ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	5			18.9	SURFACE CONDITIONS	
1	38	4.1	197	16.6	71	17.1
2	104	6.8	207	19.4	137	19.3
3	176	7.1	201	19.0	215	18.7
4	247	6.7	199	18.4	280	18.1
5	312	6.8	198	17.9	344	17.6
6	376	5.2	201	17.4	409	17.4
7	444	3.7	209	17.4	479	17.7
8	515	3.4	231	17.5	550	17.3
9	586	3.1	239	17.0	622	16.7
10	660	3.2	240	16.6	698	16.2
11	734	2.6	297	16.1	771	15.9
12	814	2.7	302	15.6	857	15.3
13	880	3.6	335	15.1	904	14.7
14	940	3.6	309	14.4	977	14.1
15	1013	4.1	312	13.8	1050	13.6
16	1088	4.7	309	13.2	1126	13.0
17	1162	5.3	314	12.7	1198	12.4
18	1223	6.5	327	12.1	1247	11.9
19	1293	6.9	316	11.5	1338	11.2
20	1365	6.8	323	10.9	1391	10.6
21	1417	6.8	323	10.4	1443	10.0
22	1465	6.5	325	9.8	1487	9.5
23	1510	6.7	325	9.2	1533	8.9
24	1555	6.8	325	8.7	1578	8.4
25	1601	6.9	326	8.2	1623	8.0
26	1646	6.9	326	7.7	1669	7.5
27	1694	7.2	328	7.4	1720	7.2
28	1745	7.5	330	7.0	1769	6.7
29	1794	7.5	330	6.4	1818	6.2
30	1843	7.5	330	6.1	1868	6.0

JULY 24, 1981
1700Z
SPRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 14

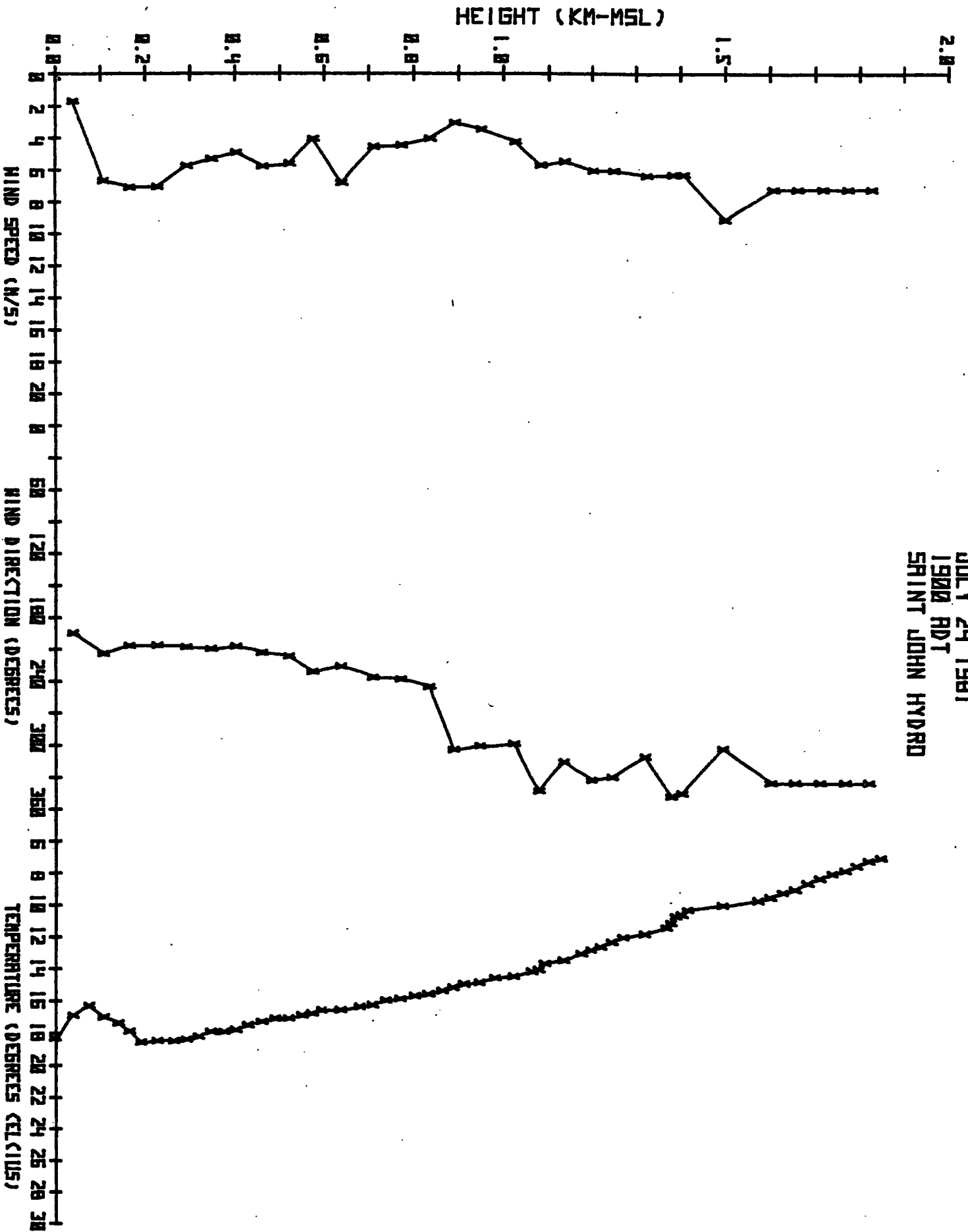
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 14

DATE JULY 24 1981 TIME 1900 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	4			18.4	SURFACE CONDITIONS	
1	40	1.7	195	16.9	75	16.3
2	108	6.7	214	17.0	141	17.4
3	167	7.1	206	17.9	192	18.6
4	229	7.1	206	18.5	267	18.5
5	295	5.7	208	18.4	322	18.2
6	350	5.3	210	17.9	378	17.9
7	405	4.9	207	17.8	431	17.5
8	462	5.8	213	17.3	493	17.1
9	524	5.6	217	17.1	554	16.9
10	576	4.1	231	16.8	599	16.6
11	641	6.8	226	16.6	683	16.4
12	712	4.6	237	16.3	742	16.0
13	775	4.5	238	15.9	808	15.7
14	838	4.0	245	15.6	868	15.4
15	892	3.1	304	15.2	916	15.0
16	952	3.5	301	14.9	988	14.6
17	1029	4.3	299	14.5	1070	14.2
18	1084	5.7	343	14.1	1098	13.7
19	1140	5.5	316	13.5	1182	13.1
20	1204	6.1	333	12.9	1226	12.7
21	1252	6.1	330	12.4	1277	12.1
22	1326	6.4	311	11.9	1375	11.5
23	1386	6.3	349	11.2	1396	10.8
24	1410	6.3	346	10.7	1423	10.4
25	1503	9.1	304	10.1	1583	9.8
26	1610	7.3	336	9.6	1638	9.3
27	1665	7.3	336	9.1	1693	8.7
28	1720	7.3	336	8.4	1747	8.1
29	1775	7.3	336	7.9	1802	7.6
30	1830	7.3	336	7.3	1857	7.1

JULY 24 1981
1900 ADT
SPRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 15

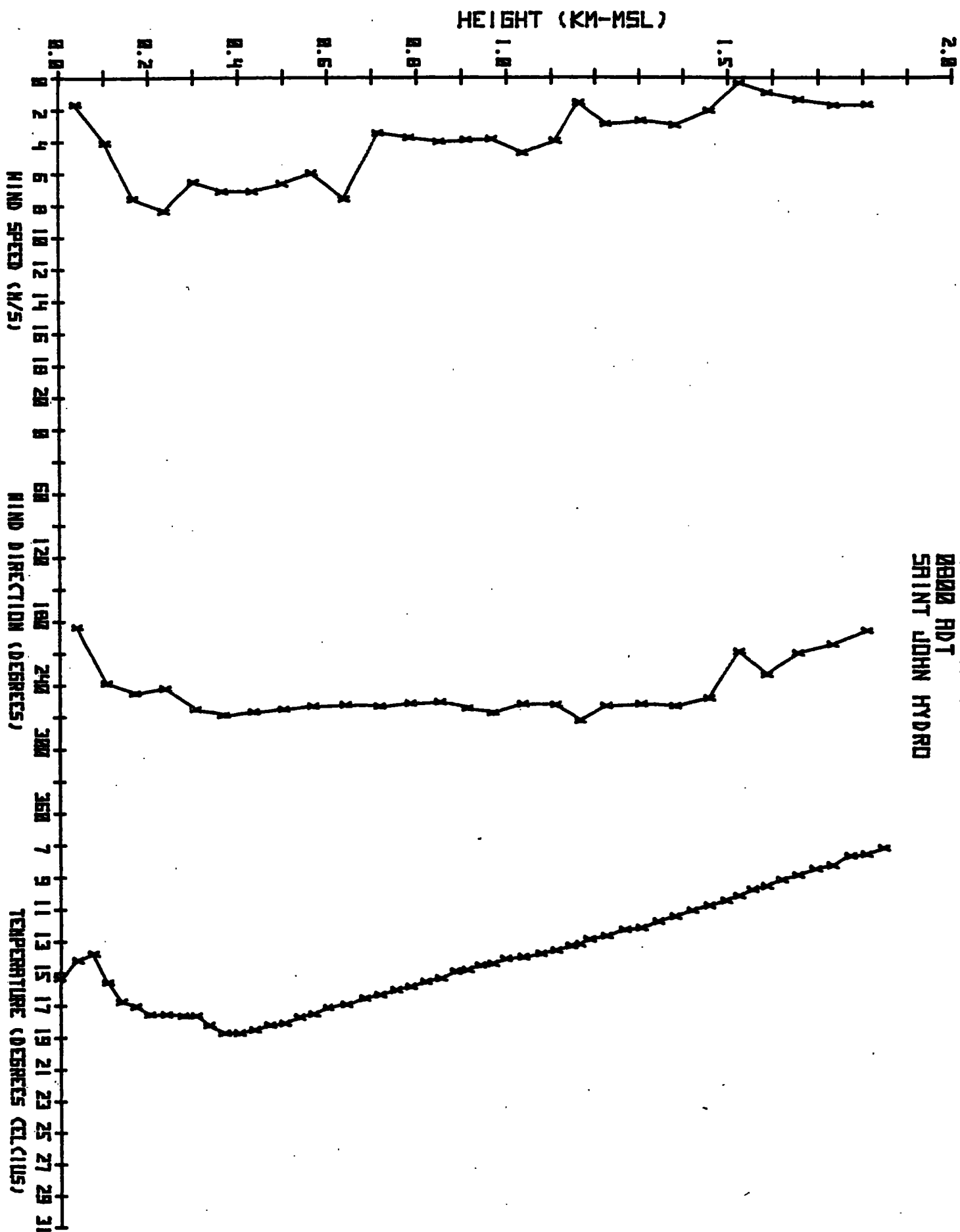
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 15

DATE JULY 25,1981 TIME 0800 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	4			15.4	SURFACE CONDITIONS	
1	39	1.6	185	14.2	74	13.8
2	105	4.1	238	15.6	137	16.8
3	168	7.6	248	17.1	199	17.6
4	237	8.4	243	17.6	274	17.7
5	303	6.5	263	17.7	332	18.3
6	365	7.1	268	18.8	399	18.8
7	433	7.1	265	18.6	467	18.3
8	500	6.6	263	18.2	534	17.8
9	566	6.0	260	17.6	598	17.2
10	639	7.6	259	17.0	680	16.6
11	716	3.5	260	16.4	752	16.1
12	785	3.7	258	15.9	818	15.6
13	851	4.0	256	15.4	884	15.0
14	912	3.9	262	14.9	941	14.6
15	969	3.8	267	14.5	998	14.2
16	1037	4.7	258	14.1	1076	13.9
17	1109	4.0	259	13.7	1143	13.4
18	1165	1.6	274	13.3	1187	13.0
19	1227	2.9	260	12.8	1267	12.4
20	1305	2.7	259	12.3	1343	11.9
21	1382	3.0	261	11.6	1421	11.2
22	1459	2.1	253	10.9	1498	10.6
23	1527	0.3	210	10.3	1557	9.9
24	1589	1.0	231	9.7	1622	9.3
25	1660	1.4	211	9.0	1697	8.6
26	1735	1.7	203	8.4	1774	7.8
27	1812	1.7	190	7.7	1850	7.3
28	1889	1.8	190	6.9	1927	6.6
29	1956	2.1	157	6.3	1984	6.0
30	2013	2.1	157	6.1	2042	6.2

JULY 25, 1981
 0800 RDT
 SPRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 16

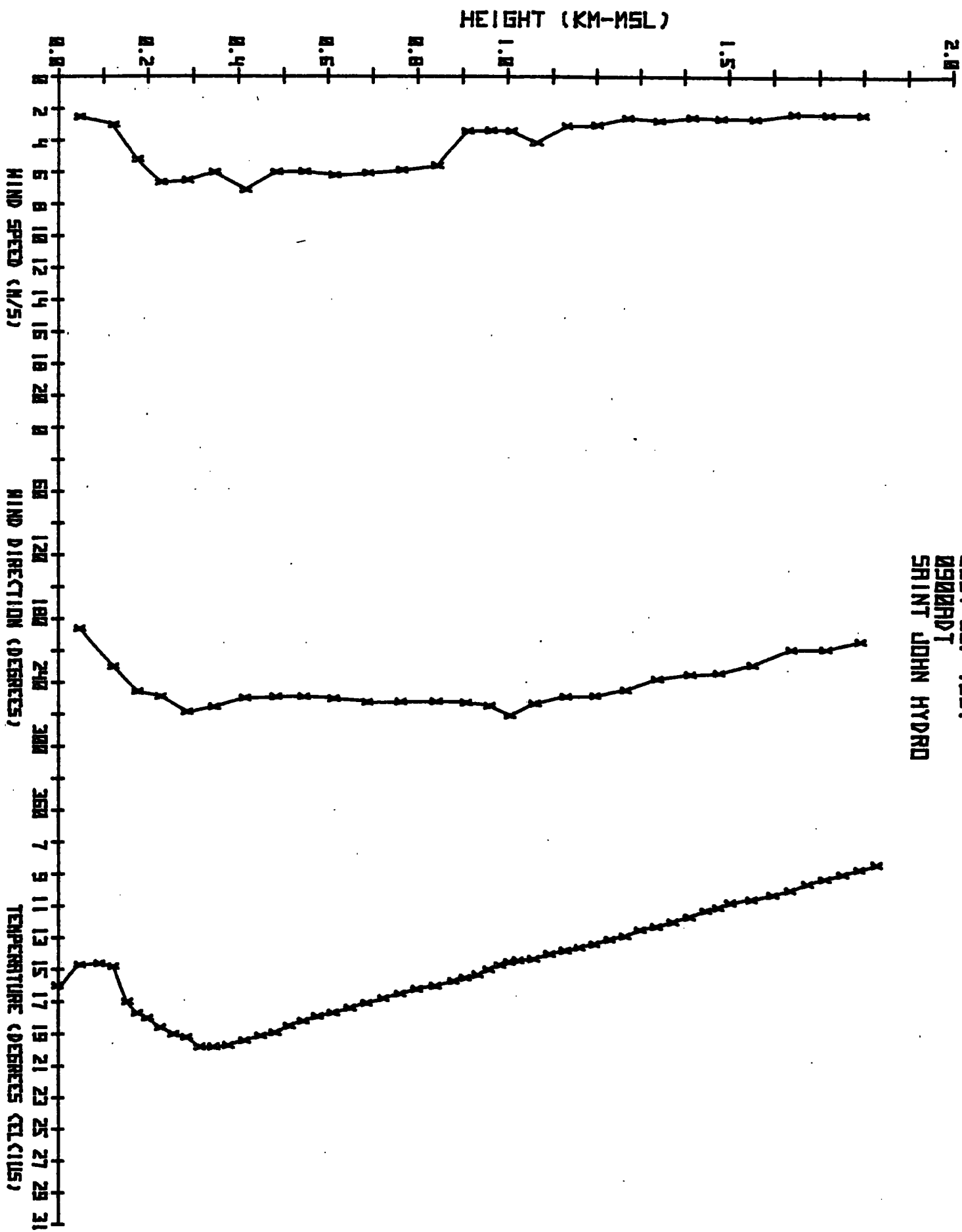
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 16

DATE JULY 25, 1981 TIME 0900ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	5			16.1	SURFACE CONDITIONS	
1	49	2.5	189	14.7	93	14.6
2	125	3.0	225	14.8	156	17.0
3	179	5.2	248	17.7	201	18.0
4	231	6.6	253	18.6	260	19.0
5	289	6.5	267	19.2	319	19.8
6	350	6.0	262	19.8	381	19.7
7	417	7.1	254	19.4	453	19.1
8	485	6.0	253	18.9	517	18.5
9	548	6.0	253	18.2	580	17.9
10	617	6.2	255	17.7	653	17.4
11	691	6.0	258	17.1	729	16.8
12	766	5.8	258	16.5	804	16.2
13	845	5.6	257	16.0	885	15.7
14	912	3.4	259	15.5	939	15.3
15	965	3.4	261	15.0	990	14.7
16	1010	3.4	271	14.5	1031	14.4
17	1065	4.1	259	14.3	1100	14.0
18	1134	3.1	253	13.8	1169	13.6
19	1203	3.0	252	13.4	1238	13.1
20	1272	2.6	246	12.9	1307	12.5
21	1344	2.7	236	12.3	1381	12.0
22	1419	2.5	232	11.7	1456	11.3
23	1484	2.6	231	11.1	1512	10.8
24	1559	2.6	223	10.6	1607	10.3
25	1645	2.3	208	10.0	1684	9.6
26	1722	2.4	208	9.3	1761	9.0
27	1800	2.4	201	8.7	1839	8.4
28	1878	2.9	180	8.1	1917	7.7
29	1950	2.9	180	7.4	1983	7.1
30	2005	3.3	156	6.8	2026	6.7

JULY 25, 1981
 0900Z
 SPRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 17

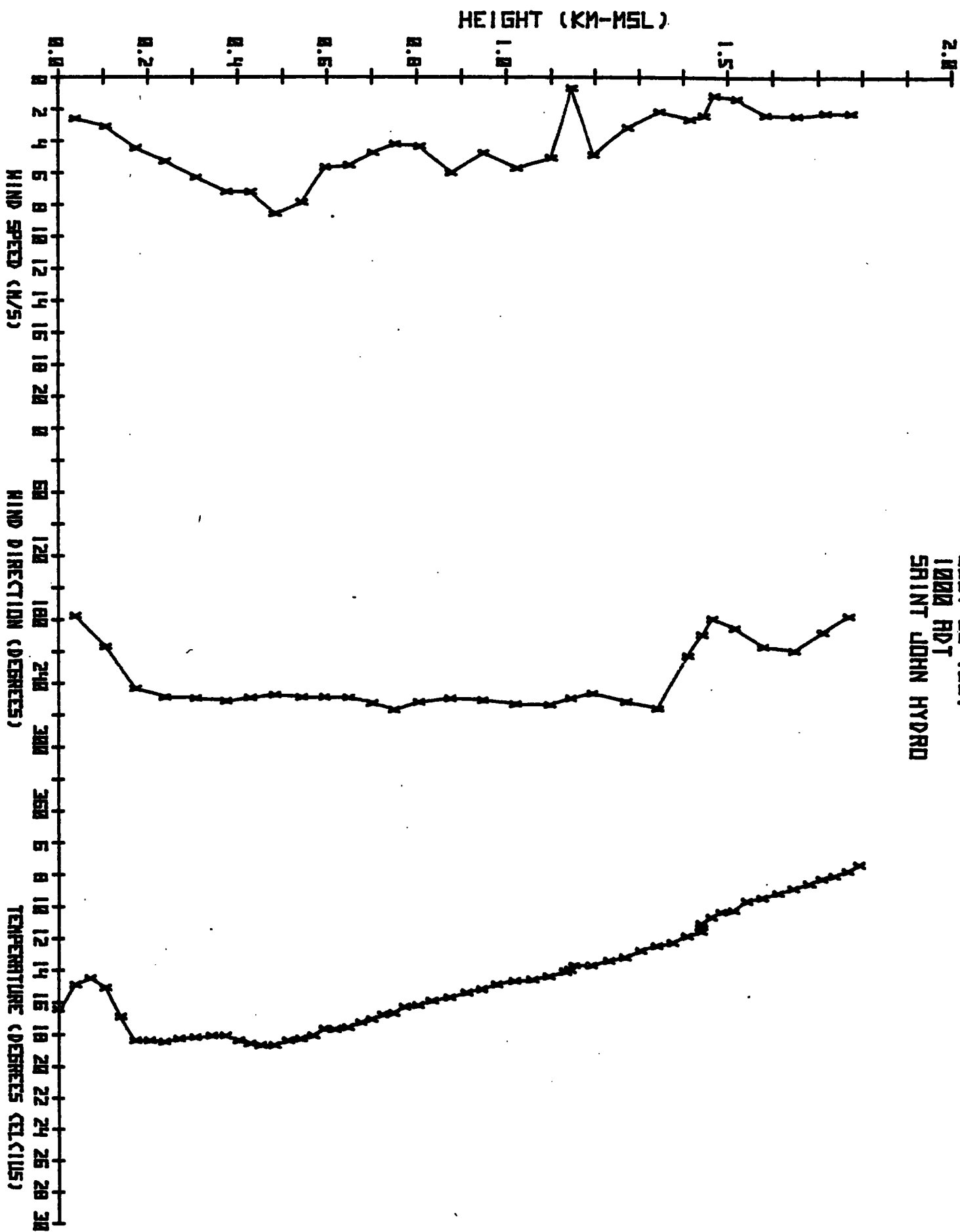
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 17

DATE JULY 25 1981 TIME 1000 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	5			16.5	SURFACE CONDITIONS	
1	39	2.6	176	14.9	73	14.5
2	107	3.1	205	15.1	142	16.9
3	174	4.5	245	18.4	207	18.4
4	240	5.3	253	18.5	273	18.3
5	310	6.3	254	18.2	347	18.1
6	377	7.2	257	18.1	406	18.4
7	430	7.2	254	18.6	454	18.7
8	486	8.6	251	18.7	517	18.4
9	545	7.8	253	18.3	573	18.1
10	597	5.6	253	17.7	622	17.7
11	651	5.5	253	17.6	680	17.3
12	705	4.7	259	17.1	729	16.8
13	754	4.2	265	16.7	779	16.3
14	809	4.3	258	16.2	839	15.9
15	878	6.0	254	15.7	917	15.4
16	952	4.7	256	15.2	986	14.9
17	1026	5.7	260	14.7	1065	14.6
18	1102	5.1	260	14.4	1138	14.1
19	1148	0.7	254	14.0	1158	13.7
20	1199	4.9	249	13.7	1239	13.4
21	1275	3.2	258	13.2	1311	12.8
22	1347	2.1	264	12.5	1383	12.3
23	1415	2.6	214	11.9	1448	11.6
24	1448	2.4	194	11.3	1449	11.1
25	1471	1.1	179	10.7	1494	10.4
26	1523	1.3	188	10.3	1552	9.7
27	1586	2.4	206	9.5	1621	9.2
28	1656	2.4	210	8.9	1691	8.6
29	1718	2.2	192	8.3	1746	8.1
30	1775	2.3	177	7.8	1803	7.4

JULY 25 1981
1000 PDT
SRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 18

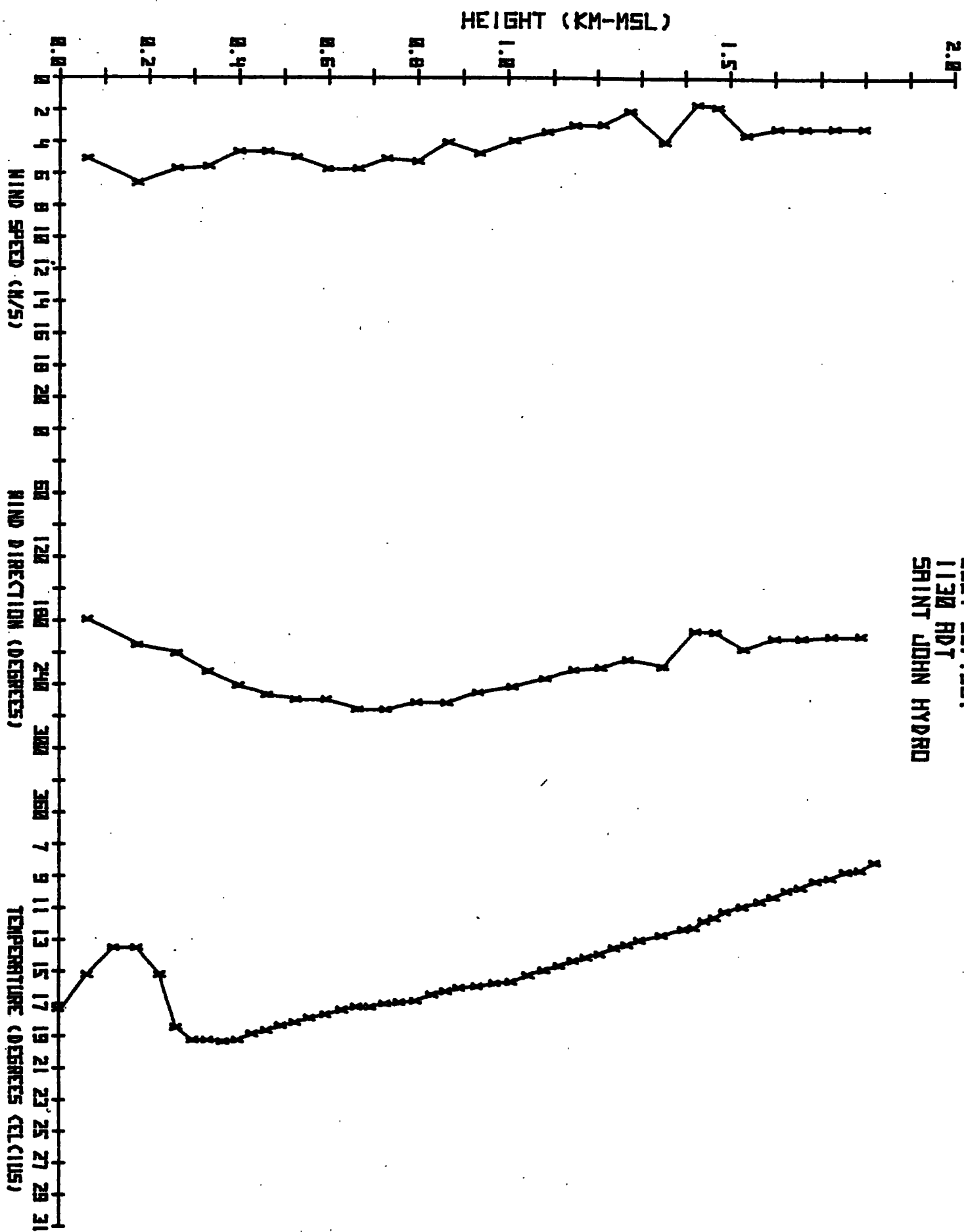
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 18

DATE JULY 25,1981 TIME 1130 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	5			17.4	SURFACE CONDITIONS	
1	64	5.1	178	15.2	123	13.5
2	175	6.6	203	13.5	227	15.2
3	264	5.7	211	18.5	301	19.3
4	334	5.6	228	19.3	368	19.4
5	401	4.6	241	19.3	433	18.9
6	465	4.6	250	18.7	497	18.4
7	529	5.0	254	18.2	562	17.9
8	598	5.7	254	17.7	635	17.4
9	667	5.7	263	17.2	700	17.2
10	732	5.1	263	17.0	765	16.9
11	801	5.2	257	16.8	837	16.4
12	867	4.0	257	16.2	897	16.0
13	937	4.7	247	15.9	977	15.7
14	1015	3.9	242	15.6	1052	15.2
15	1086	3.4	234	14.9	1121	14.6
16	1152	3.0	226	14.3	1183	14.1
17	1215	2.9	224	13.9	1247	13.5
18	1276	2.1	216	13.3	1304	13.0
19	1354	4.0	223	12.7	1404	12.3
20	1428	1.6	190	12.2	1451	11.8
21	1474	1.8	191	11.6	1498	11.2
22	1538	3.5	206	10.9	1577	10.6
23	1606	3.1	196	10.3	1636	9.9
24	1668	3.2	196	9.7	1700	9.3
25	1733	3.1	194	9.1	1766	8.7
26	1799	3.1	194	8.6	1833	8.1
27	1867	3.2	189	7.9	1901	7.4
28	1937	3.5	188	7.1	1973	6.7
29	2010	3.9	188	6.7	2046	6.4
30	2077	3.2	180	6.4	2108	6.2

JULY 25, 1981
1130 RDT
SRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 19

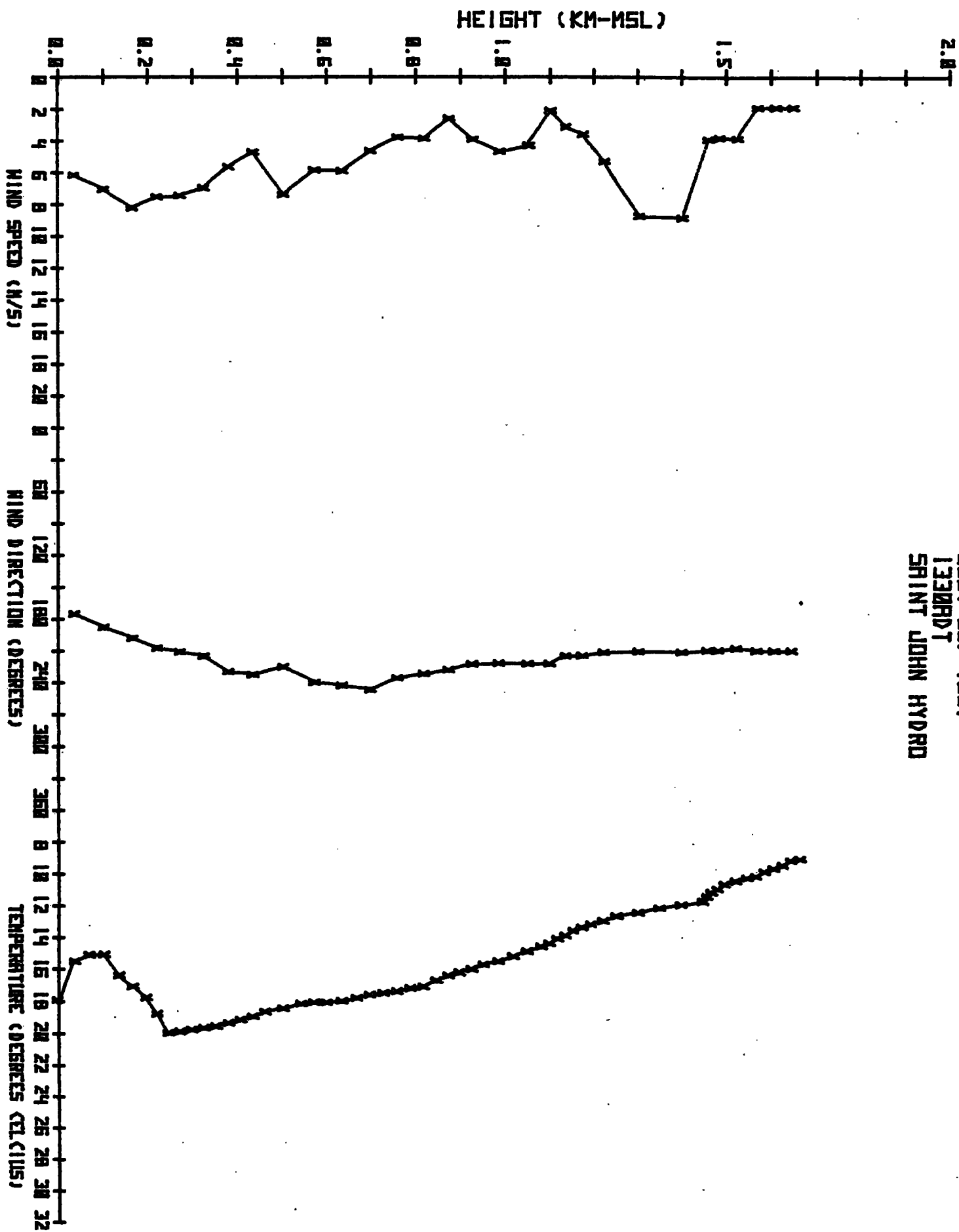
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 19

DATE JULY 25, 1981 TIME 1330ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	3			18.0	SURFACE CONDITIONS	
1	36	6.2	175	15.5	69	15.1
2	103	7.0	188	15.1	136	16.4
3	167	8.2	198	17.1	198	17.8
4	223	7.5	208	18.8	248	20.0
5	274	7.4	211	19.9	300	19.8
6	327	6.9	215	19.7	354	19.6
7	381	5.6	230	19.4	408	19.2
8	436	4.7	233	19.0	463	18.7
9	504	7.4	225	18.5	545	18.2
10	574	5.8	240	18.1	602	18.1
11	636	5.9	243	18.0	670	17.8
12	700	4.6	247	17.6	731	17.5
13	761	3.8	236	17.4	792	17.2
14	820	3.9	232	17.1	849	16.7
15	875	2.6	228	16.4	901	16.2
16	928	3.9	222	16.0	956	15.7
17	989	4.7	222	15.5	1022	15.2
18	1053	4.3	222	14.9	1084	14.6
19	1102	2.1	222	14.4	1120	14.1
20	1138	3.1	215	13.9	1156	13.6
21	1177	3.6	215	13.4	1198	13.2
22	1227	5.3	211	13.0	1256	12.7
23	1305	8.7	211	12.5	1354	12.2
24	1403	8.8	211	12.0	1453	11.8
25	1462	3.9	210	11.5	1471	11.2
26	1487	3.8	210	11.0	1502	10.7
27	1527	3.9	208	10.5	1553	10.3
28	1573	1.9	210	10.2	1592	9.9
29	1612	1.9	210	9.7	1632	9.5
30	1652	1.9	210	9.2	1672	9.1

JULY 25, 1981
1300RDT
SRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 20

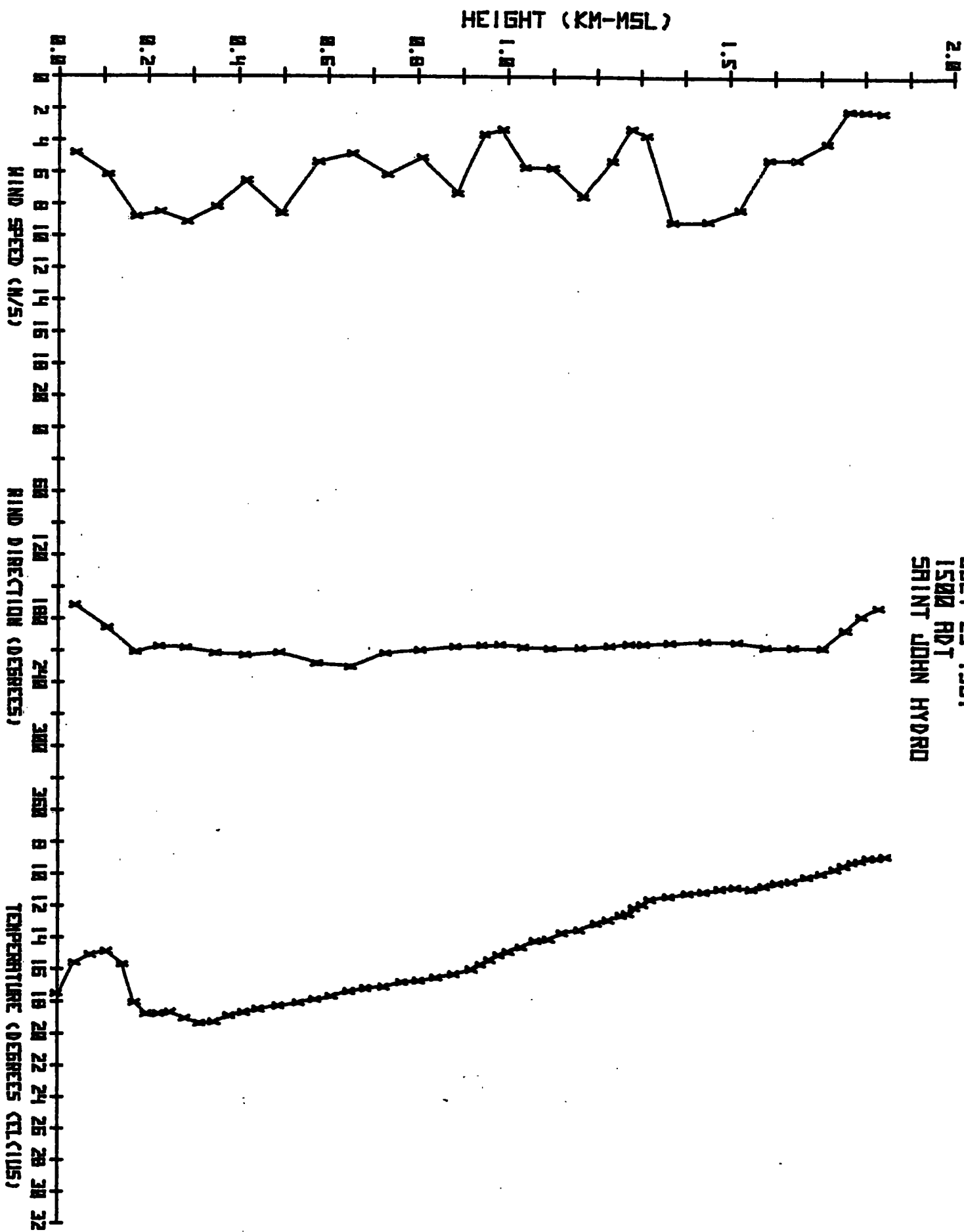
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 20

DATE JULY 25 1981 TIME 1500 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	4			17.6	SURFACE CONDITIONS	
1	39	4.8	167	15.6	74	15.1
2	110	6.2	189	14.9	147	15.7
3	174	8.8	212	18.1	201	18.8
4	228	8.5	206	18.8	256	18.7
5	288	9.1	207	19.1	321	19.4
6	353	8.2	213	19.3	386	18.9
7	418	6.5	214	18.7	451	18.5
8	496	8.6	212	18.3	541	18.1
9	578	5.4	222	17.9	615	17.7
10	654	4.8	225	17.4	693	17.2
11	733	6.2	212	17.1	773	16.8
12	811	5.1	209	16.7	849	16.5
13	889	7.3	206	16.3	928	16.0
14	949	3.6	205	15.7	970	15.4
15	991	3.3	204	15.1	1012	14.9
16	1041	5.7	206	14.6	1071	14.2
17	1101	5.7	208	14.1	1131	13.7
18	1170	7.5	207	13.5	1210	13.1
19	1237	5.3	205	12.9	1265	12.6
20	1280	3.2	203	12.5	1296	12.1
21	1313	3.6	203	11.9	1331	11.6
22	1374	9.1	202	11.4	1416	11.2
23	1453	9.0	201	11.1	1490	10.9
24	1526	8.3	201	10.8	1561	10.9
25	1589	5.2	206	10.7	1617	10.5
26	1651	5.2	206	10.4	1684	10.1
27	1715	4.1	206	9.9	1746	9.6
28	1765	2.1	189	9.4	1784	9.2
29	1803	2.1	176	9.1	1822	8.9
30	1840	2.2	168	8.9	1859	8.8

JULY 25 1981
1500 RDT
SRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 21

STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 21

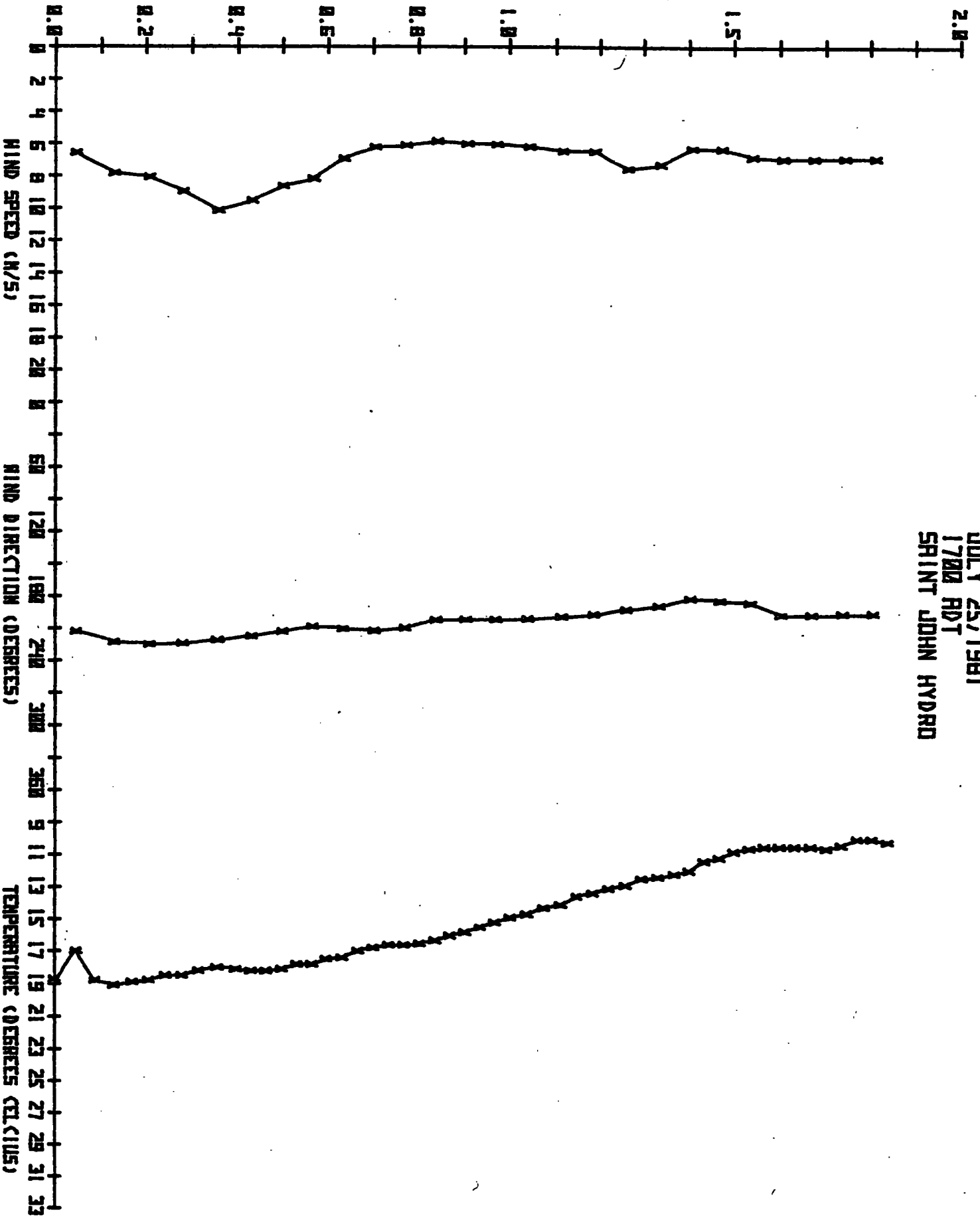
DATE JULY 25,1981 TIME 1700 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	4			18.8	SURFACE CONDITIONS	
1	47	6.6	213	17.0	89	18.8
2	131	7.8	223	19.1	172	18.9
3	209	8.1	225	18.8	246	18.5
4	283	8.9	224	18.5	320	18.2
5	360	10.1	221	18.0	400	18.1
6	434	9.5	217	18.2	467	18.2
7	501	8.6	213	18.1	535	17.8
8	569	8.1	208	17.8	602	17.5
9	637	6.9	210	17.4	671	17.0
10	706	6.2	212	16.8	740	16.6
11	775	6.1	209	16.6	809	16.5
12	842	5.8	202	16.3	874	16.0
13	908	6.0	201	15.8	941	15.5
14	975	6.0	201	15.2	1008	14.9
15	1045	6.2	201	14.7	1082	14.3
16	1119	6.4	199	14.1	1155	13.6
17	1192	6.4	196	13.4	1229	13.1
18	1265	7.5	192	12.9	1302	12.5
19	1339	7.3	189	12.4	1375	12.2
20	1409	6.3	182	12.0	1442	11.4
21	1476	6.3	184	11.2	1509	10.8
22	1542	6.8	186	10.6	1576	10.5
23	1609	6.9	197	10.5	1643	10.5
24	1677	6.9	197	10.5	1711	10.6
25	1745	6.9	196	10.4	1779	10.0
26	1813	6.9	195	10.0	1848	10.2
27	1882	6.8	191	10.4	1916	10.5
28	1950	6.8	191	10.2	1984	10.2
29	2018	6.8	191	10.2	2053	10.0
30	2087	6.8	191	9.7	2121	9.5

JULY 25, 1981
1700 ADT
SRINT JOHN HYDRD

HEIGHT (KM-MSL)



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 22

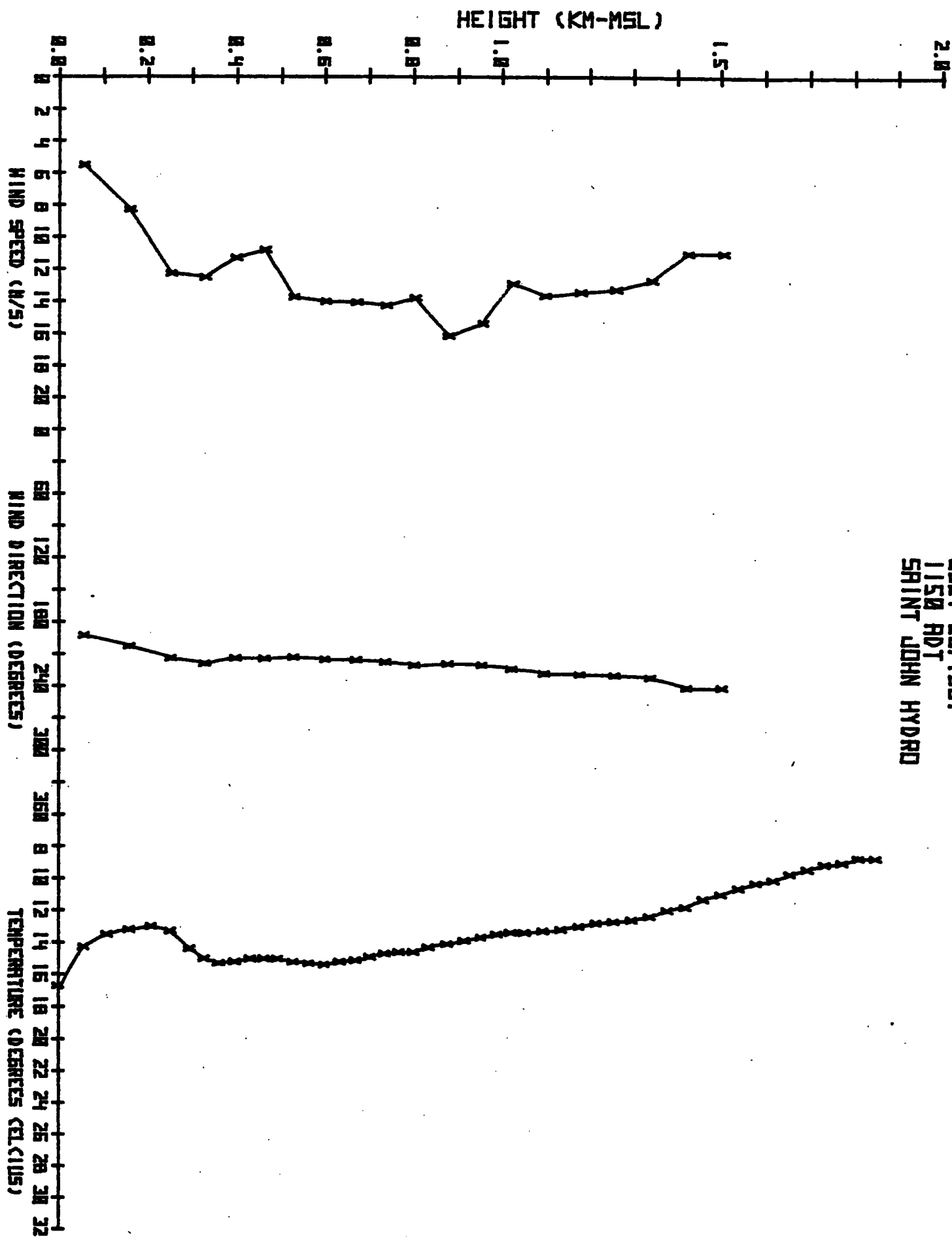
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 22

DATE JULY 26,1981 TIME 1150 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	4			16.8	SURFACE CONDITIONS	
1	57	5.5	193	14.3	109	13.5
2	160	8.3	203	13.2	211	13.0
3	254	12.3	214	13.3	298	14.4
4	331	12.5	219	15.0	364	15.3
5	399	11.3	214	15.2	434	15.0
6	465	10.8	214	15.0	495	15.0
7	531	13.7	213	15.2	567	15.3
8	603	14.0	215	15.4	638	15.2
9	673	14.0	216	15.1	707	14.9
10	740	14.2	218	14.7	773	14.6
11	806	13.8	221	14.6	840	14.3
12	880	16.1	219	14.1	921	13.9
13	958	15.4	220	13.7	995	13.5
14	1026	12.9	224	13.4	1058	13.4
15	1099	13.6	228	13.3	1140	13.2
16	1181	13.4	229	13.0	1222	12.8
17	1263	13.2	230	12.7	1304	12.6
18	1345	12.7	232	12.4	1386	12.0
19	1427	11.0	242	11.8	1468	11.3
20	1509	11.0	242	11.0	1550	10.6
21	1588			10.3	1627	10.1
22	1666			9.7	1704	9.4
23	1743			9.1	1781	9.0
24	1820			8.7	1859	8.7
25	1897			8.6	1936	8.5
26	1975			8.4	2013	8.3
27	2052			8.2	2091	8.0
28	2129			7.9	2168	8.2
29	2206			8.3	2245	8.2
30	2284			8.2	2322	8.3

JULY 26, 1981
1150 PDT
SPRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 1

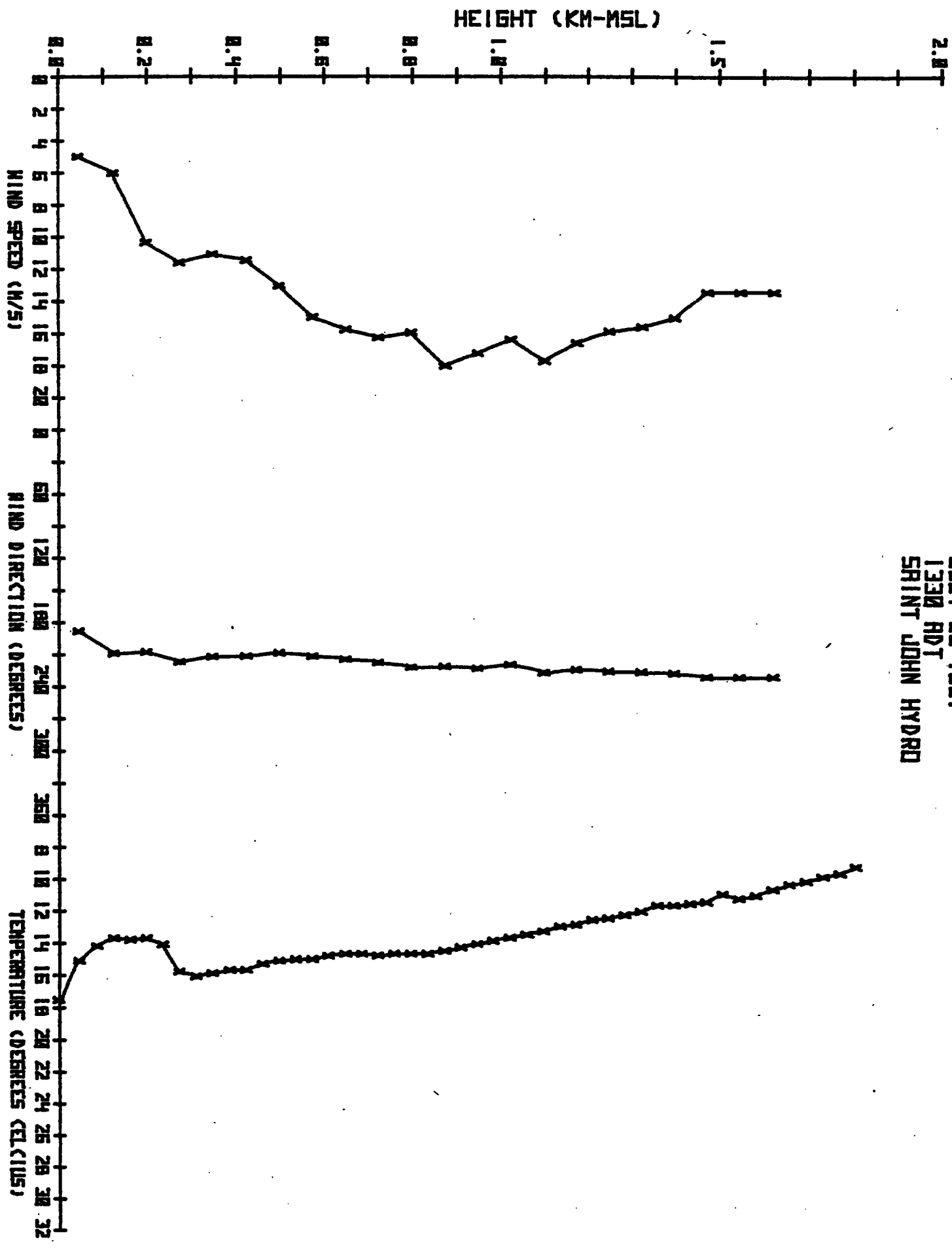
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 23

DATE JULY 26 1981 TIME 1330 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	4			17.6	SURFACE CONDITIONS	
1	45	5.0	188	15.1	87	14.2
2	124	6.0	209	13.7	162	13.8
3	199	10.3	208	13.7	237	14.1
4	274	11.6	217	15.8	312	16.1
5	349	11.1	212	15.9	387	15.7
6	424	11.4	212	15.7	462	15.3
7	499	13.0	209	15.1	537	15.0
8	574	15.0	212	15.0	612	14.8
9	649	15.7	215	14.7	687	14.7
10	724	16.2	218	14.8	762	14.7
11	799	15.9	222	14.7	837	14.7
12	874	18.0	222	14.5	912	14.3
13	949	17.2	223	14.1	987	13.9
14	1024	16.4	220	13.7	1062	13.5
15	1099	17.7	227	13.3	1137	13.0
16	1174	16.6	224	12.9	1212	12.6
17	1249	15.9	226	12.5	1287	12.3
18	1324	15.6	227	12.1	1362	11.7
19	1399	15.1	228	11.7	1437	11.6
20	1474	13.5	232	11.5	1512	11.0
21	1549	13.5	232	11.3	1587	11.1
22	1624	13.5	232	10.7	1662	10.4
23	1700			10.2	1737	9.9
24	1775			9.7	1813	9.3
25	1850			9.0	1888	8.9
26	1926			8.5	1963	8.1
27	2001			7.9	2039	7.6
28	2076			7.5	2114	7.1
29	2152			7.1	2189	6.7
30	2227			6.5	2265	6.3

JULY 26 1981
1330 RDT
SRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 2

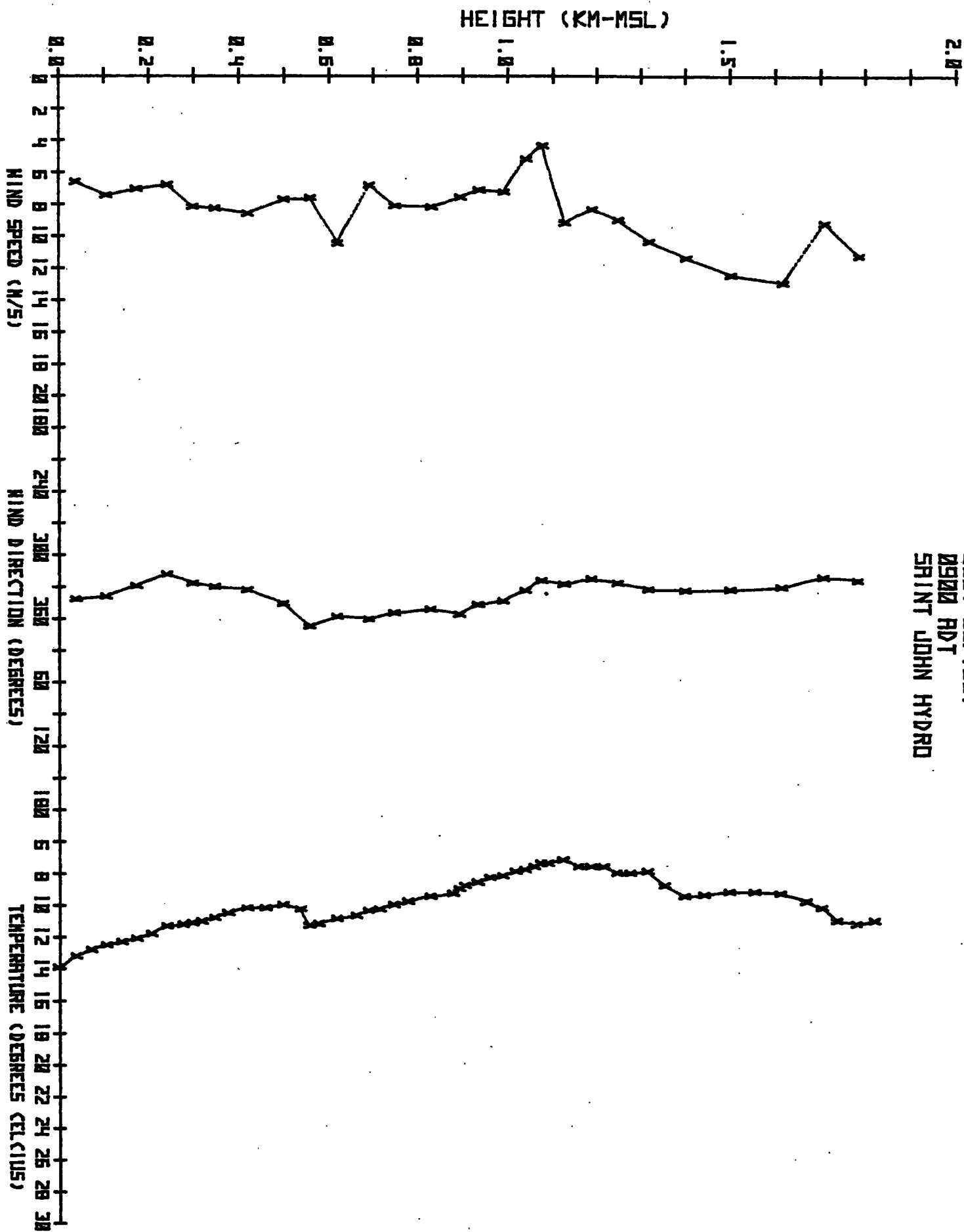
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 24

DATE JULY 28,1981 TIME 0900 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	3			14.0	SURFACE CONDITIONS	
1	37	6.6	341	13.2	72	12.8
2	106	7.5	339	12.5	140	12.3
3	173	7.1	329	12.1	207	11.8
4	243	6.8	318	11.3	278	11.2
5	299	8.2	327	11.1	320	11.0
6	349	8.3	330	10.8	378	10.5
7	420	8.6	333	10.2	461	10.2
8	500	7.7	346	10.0	540	10.3
9	560	7.6	8	11.3	580	11.2
10	623	10.5	358	10.9	665	10.7
11	692	6.8	1	10.4	719	10.3
12	750	8.1	355	10.0	782	9.8
13	831	8.2	352	9.5	881	9.3
14	894	7.6	356	9.0	907	8.8
15	936	7.1	347	8.6	964	8.3
16	993	7.3	344	8.2	1021	7.9
17	1042	5.2	334	7.8	1062	7.6
18	1078	4.4	324	7.4	1093	7.4
19	1127	9.2	328	7.2	1161	7.6
20	1191	8.3	323	7.6	1221	7.6
21	1251	9.0	327	8.0	1280	8.0
22	1319	10.4	333	7.9	1358	8.8
23	1403	11.4	334	9.5	1448	9.4
24	1504	12.5	333	9.2	1561	9.2
25	1618	13.0	331	9.3	1676	9.8
26	1710	9.2	322	10.2	1744	11.0
27	1786	11.3	325	11.2	1829	11.0
28	1892	17.3	329	10.8	1955	10.5
29	2001	14.2	325	10.3	2048	10.0
30	2094	14.2	325	9.8	2141	9.6

JULY 28, 1981
0900 ADT
SRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 3

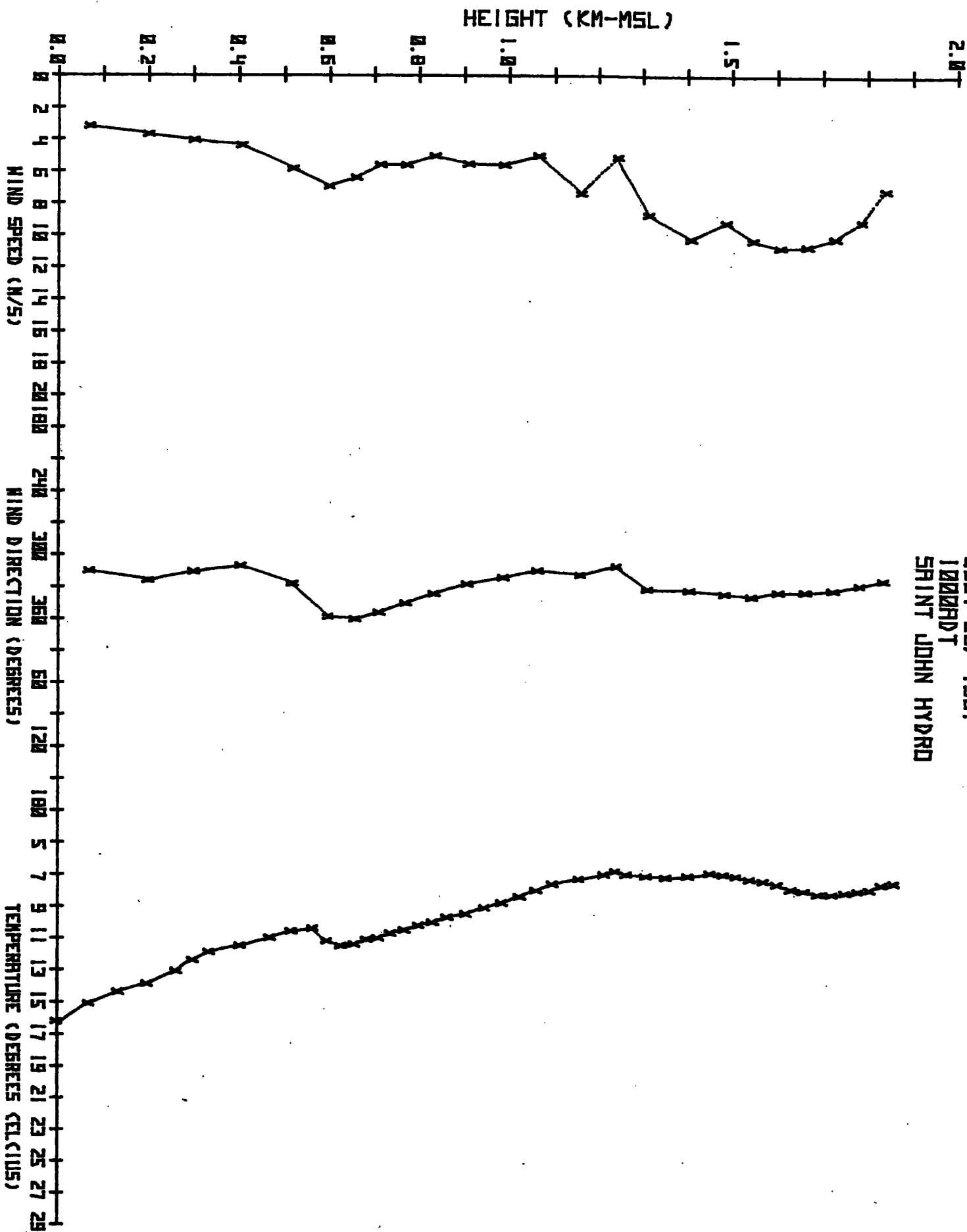
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 25

DATE JULY 28, 1981 TIME 1000ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	4			16.3	SURFACE CONDITIONS	
1	70	3.2	315	15.1	135	14.4
2	200	3.7	324	13.9	266	13.1
3	303	4.1	316	12.4	340	11.9
4	406	4.4	310	11.5	473	11.0
5	521	5.8	327	10.6	568	10.4
6	600	6.9	358	11.2	633	11.5
7	661	6.4	360	11.4	688	11.1
8	716	5.6	354	11.0	743	10.7
9	774	5.6	345	10.5	805	10.2
10	837	5.0	336	10.0	869	9.7
11	910	5.5	327	9.5	951	9.1
12	991	5.6	321	8.8	1030	8.4
13	1067	5.0	314	8.0	1103	7.6
14	1161	7.4	318	7.3	1220	7.0
15	1245	5.1	310	6.8	1270	7.0
16	1315	8.7	332	7.1	1360	7.2
17	1409	10.2	333	7.1	1459	6.9
18	1489	9.2	336	7.0	1519	7.1
19	1549	10.3	339	7.3	1579	7.4
20	1609	10.8	335	7.6	1639	7.9
21	1669	10.7	334	8.0	1699	8.2
22	1729	10.2	332	8.2	1759	8.1
23	1787	9.1	328	8.0	1816	7.9
24	1842	7.2	323	7.6	1868	7.5
25	1895	6.1	319	7.3	1921	7.1
26	1948	6.2	318	7.1	1974	7.0
27	2005	7.9	318	6.9	2037	6.8
28	2078	10.5	323	6.6	2119	6.5
29	2160	10.5	323	6.4	2202	6.2
30	2243	10.5	323	6.1	2284	5.9

JULY 28, 1981
1000RDT
SPRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 4

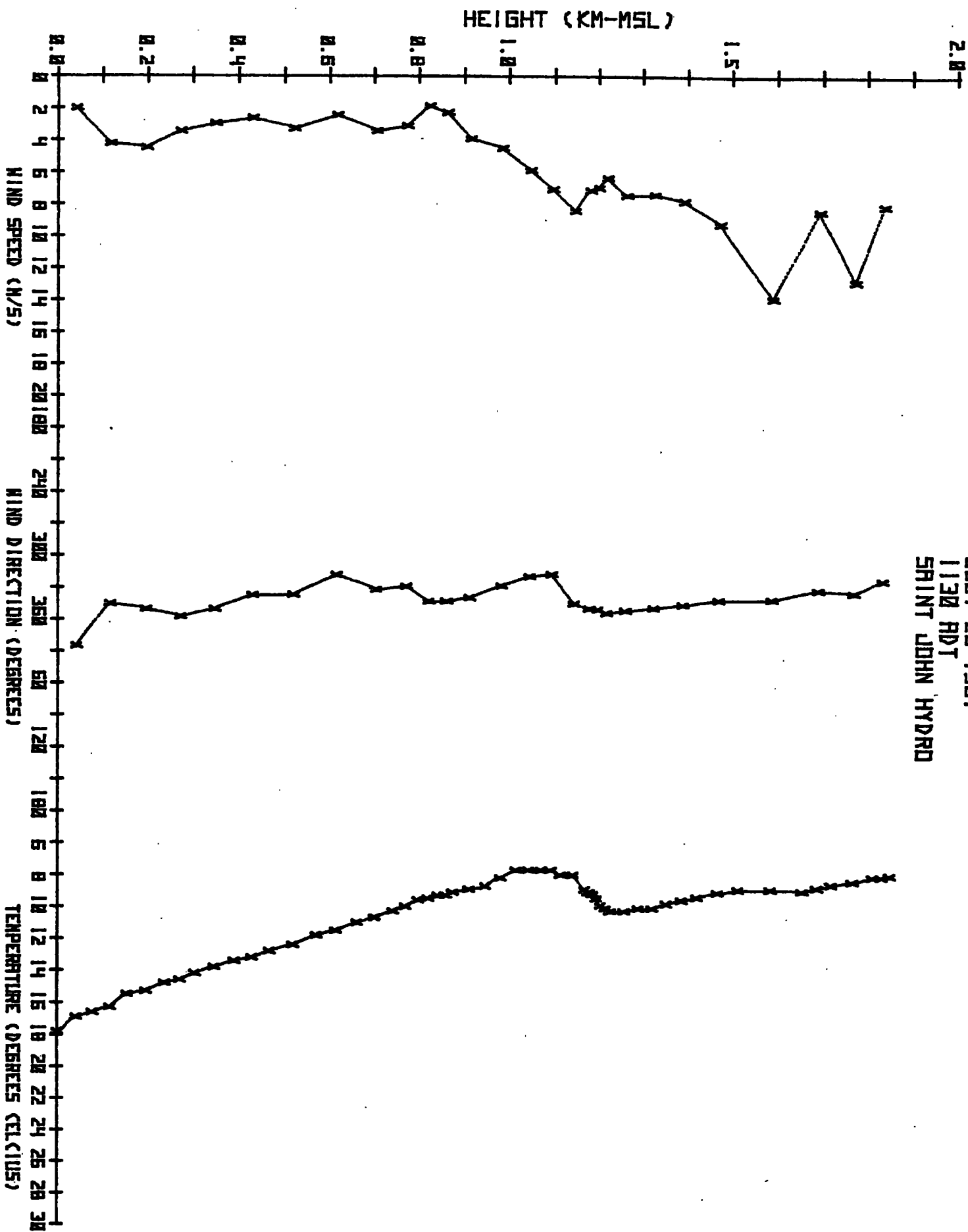
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 26

DATE JULY 28 1981 TIME 1130 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	6			17.9	SURFACE CONDITIONS	
1	43	2.0	25	16.9	80	16.6
2	118	4.2	345	16.3	156	15.5
3	199	4.5	351	15.3	241	14.8
4	275	3.5	358	14.6	309	14.2
5	351	3.0	350	13.8	394	13.4
6	433	2.6	337	13.2	472	12.8
7	524	3.3	337	12.4	576	11.8
8	621	2.4	318	11.5	666	11.0
9	707	3.5	332	10.7	748	10.3
10	776	3.1	329	10.0	805	9.6
11	826	1.9	343	9.5	848	9.3
12	864	2.3	343	9.3	880	9.1
13	916	3.9	339	8.9	953	8.7
14	987	4.5	328	8.2	1022	7.7
15	1049	5.9	319	7.7	1077	7.7
16	1098	7.1	317	7.7	1119	8.0
17	1147	8.4	345	8.0	1175	8.9
18	1184	7.1	350	9.1	1193	9.2
19	1202	7.0	350	9.5	1211	9.9
20	1223	6.4	354	10.1	1234	10.3
21	1265	7.5	351	10.3	1297	10.1
22	1329	7.4	349	10.1	1360	9.8
23	1395	7.8	346	9.6	1429	9.4
24	1475	9.2	342	9.1	1522	8.9
25	1593	13.9	341	8.9	1665	9.0
26	1696	8.5	332	8.8	1727	8.6
27	1774	12.9	335	8.4	1821	8.1
28	1840	8.1	323	8.1	1859	8.0
29	1878	8.3	322	7.9	1897	7.8
30	1916	8.7	319	7.8	1935	7.8

JULY 28 1981
1130 RDT
SPRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 5

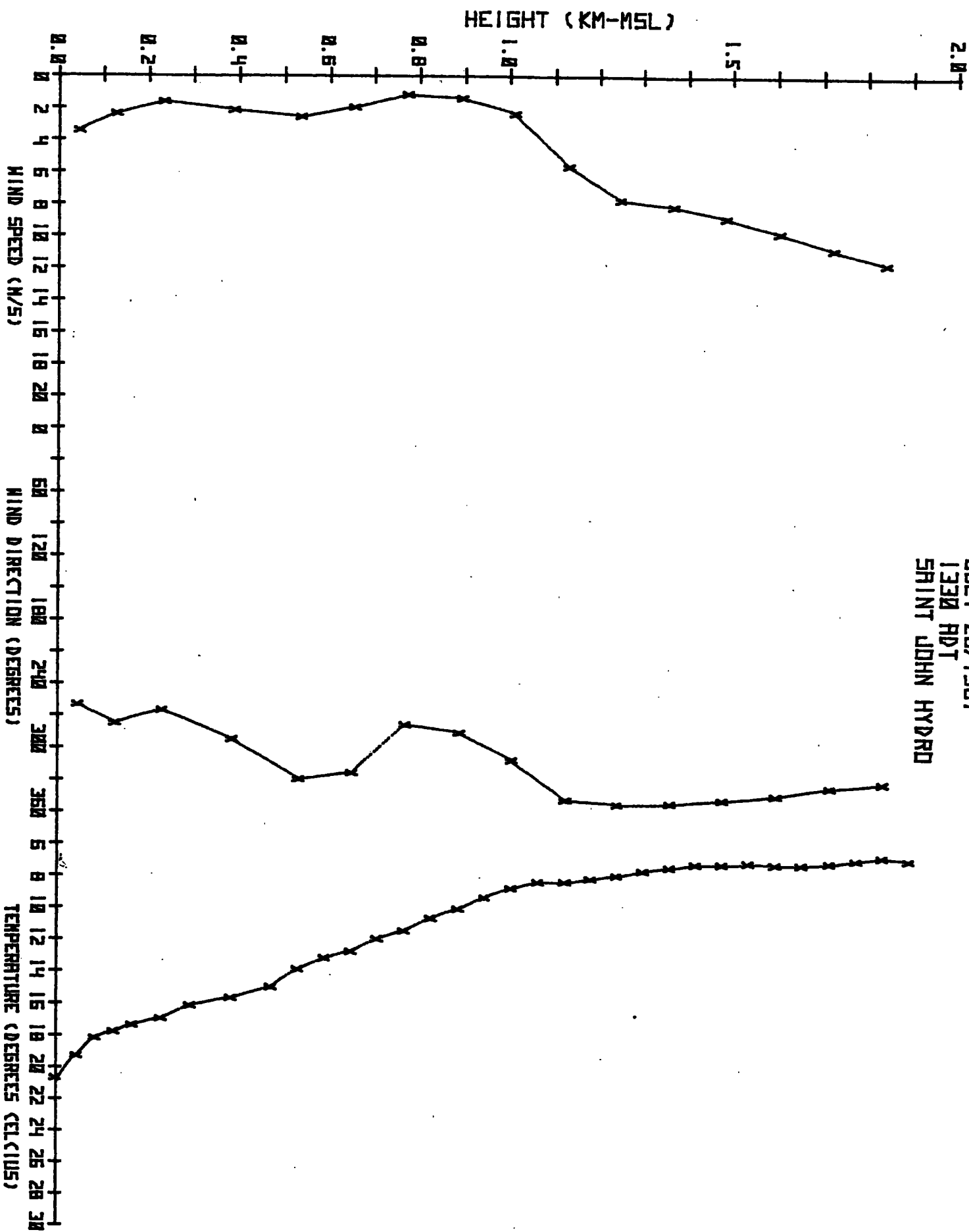
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 27

DATE JULY 28,1981 TIME 1330 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	4			20.8	SURFACE CONDITIONS	
1	46	3.5	260	19.3	87	18.2
2	128	2.4	278	17.8	169	17.4
3	234	1.6	265	17.0	299	16.2
4	388	2.2	293	15.7	477	15.0
5	537	2.6	330	13.9	596	13.2
6	656	2.0	324	12.8	715	12.0
7	774	1.2	279	11.5	834	10.7
8	893	1.4	286	10.1	953	9.4
9	1012	2.4	312	8.8	1071	8.4
10	1131	5.6	349	8.4	1190	8.2
11	1249	7.8	353	8.0	1308	7.7
12	1368	8.1	352	7.5	1427	7.3
13	1486	8.9	349	7.3	1546	7.2
14	1605	9.8	345	7.3	1664	7.3
15	1724	10.8	337	7.2	1783	7.0
16	1842	11.7	333	6.8	1901	7.0
17	1961	12.1	330	6.9	2020	6.9
18	2079	11.6	321	6.8	2139	6.6
19	2198	15.2	326	6.3	2257	6.4
20	2316	14.4	320	6.3	2376	6.4
21	2435	14.4	320	6.6	2494	6.6
22	2553	14.4	320	6.8	2613	6.5
23	2672	14.4	320	6.5	2731	6.4
24	2791	15.1	317	6.2	2850	6.0
25	2909	15.1	317	5.8	2968	5.6
26	3028	15.1	317	5.3	3087	5.1
27	3146	15.1	317	5.0	3206	4.8
28	3265	15.1	317	4.6	3324	4.5
29	3383	15.1	317	4.4	3443	4.2
30	3502	15.1	317	4.1	3561	3.9

JULY 28, 1981
1330 RDT
SRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 6

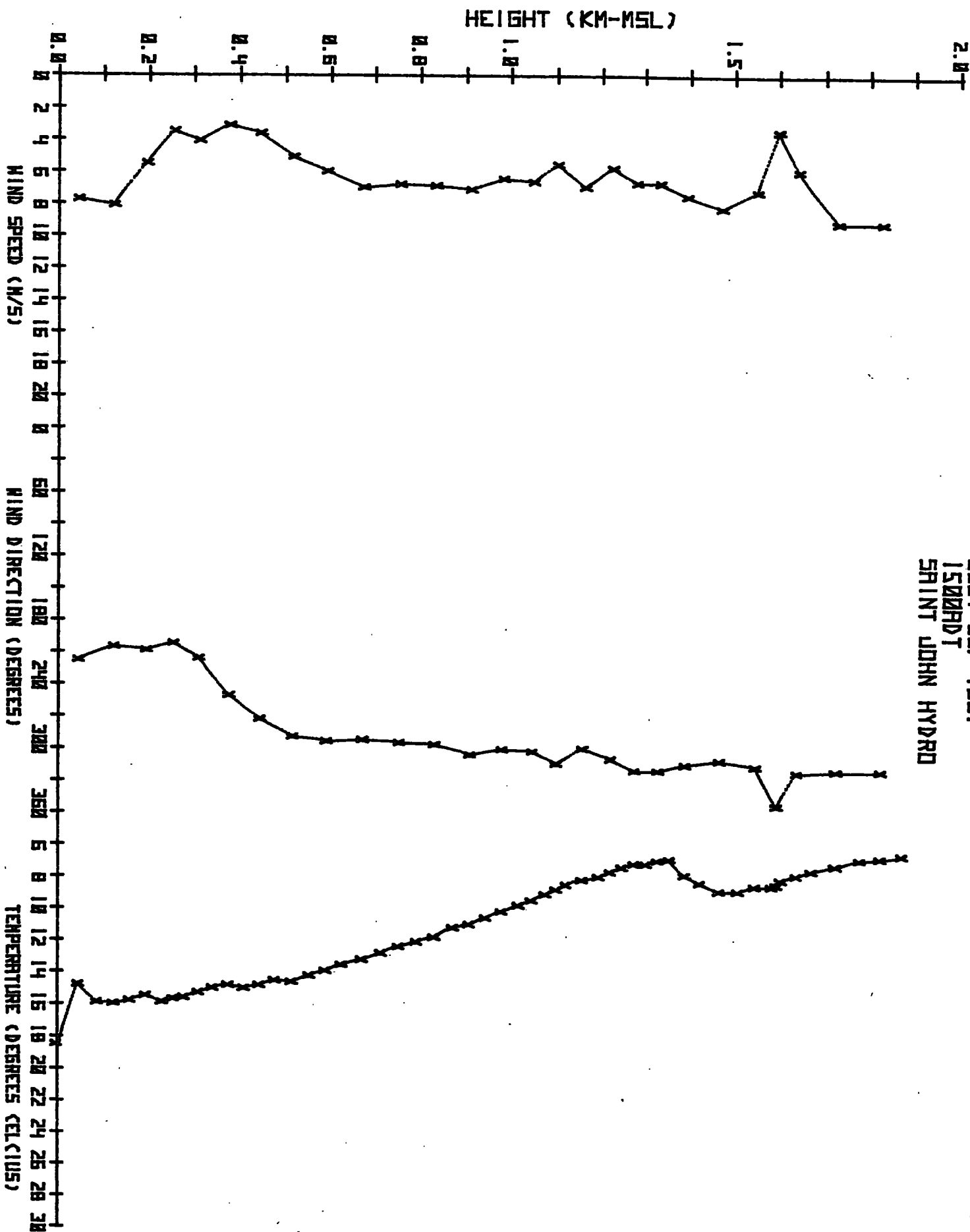
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 28

DATE JULY 28, 1981 TIME 1500ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
					SURFACE CONDITIONS	
0	3			18.6		
1	46	7.7	218	14.8	88	15.9
2	124	8.1	205	16.0	160	15.8
3	196	5.5	209	15.5	232	15.9
4	257	3.5	202	15.7	281	15.6
5	313	4.1	216	15.3	345	15.0
6	379	3.1	251	14.8	413	15.0
7	447	3.6	273	14.8	481	14.5
8	519	5.1	289	14.6	558	14.2
9	594	6.0	294	13.9	631	13.5
10	675	7.0	292	13.2	719	12.8
11	758	6.8	295	12.4	797	12.1
12	837	6.9	296	11.8	876	11.2
13	912	7.1	306	11.0	949	10.6
14	986	6.4	301	10.2	1022	9.8
15	1052	6.6	303	9.5	1081	9.1
16	1104	5.5	314	8.8	1126	8.5
17	1164	6.9	300	8.2	1202	8.0
18	1228	5.8	310	7.7	1255	7.4
19	1282	6.7	320	7.2	1308	7.2
20	1335	6.7	321	7.0	1362	6.9
21	1396	7.5	315	7.9	1430	8.4
22	1473	8.3	311	8.9	1516	8.9
23	1553	7.2	317	8.6	1590	8.6
24	1599	3.4	353	8.5	1609	8.2
25	1643	5.9	322	7.9	1677	7.6
26	1730	9.2	321	7.3	1783	6.9
27	1830	9.2	321	6.8	1878	6.6
28	1918	9.2	321	6.7	1957	6.7
29	1997	9.2	321	6.5	2037	6.4
30	2077	9.2	321	6.4	2116	6.3

JULY 28, 1981
1500RDT
SRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 7

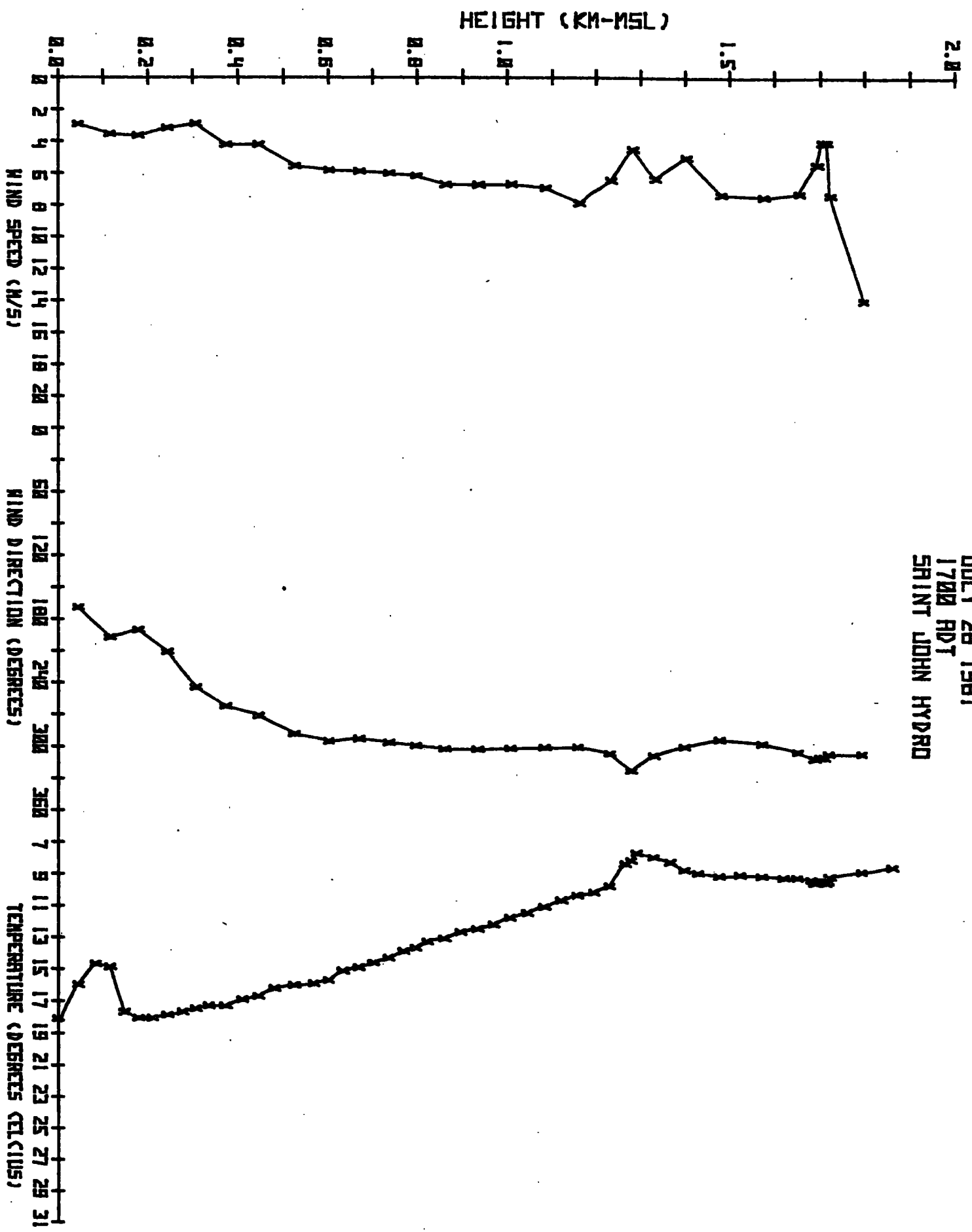
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 29

DATE JULY 28 1981 TIME 1700 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	6			18.2	SURFACE CONDITIONS	
1	45	2.9	169	16.0	85	14.7
2	117	3.5	197	14.9	149	17.7
3	180	3.6	191	18.1	211	18.1
4	245	3.2	211	17.9	279	17.7
5	309	2.9	245	17.5	338	17.3
6	375	4.2	262	17.3	411	16.9
7	447	4.2	272	16.7	483	16.2
8	527	5.6	289	16.0	571	15.9
9	604	5.8	295	15.7	637	15.1
10	672	5.9	293	14.9	707	14.6
11	740	6.0	297	14.3	774	13.9
12	800	6.2	299	13.7	827	13.3
13	864	6.7	302	13.1	900	12.7
14	938	6.7	303	12.5	975	12.2
15	1013	6.7	302	11.8	1050	11.5
16	1088	6.9	301	11.1	1125	10.7
17	1163	7.9	301	10.4	1200	10.2
18	1236	6.4	307	9.8	1272	8.4
19	1284	4.5	323	8.2	1297	7.7
20	1335	6.3	309	8.0	1373	8.3
21	1404	5.0	301	8.8	1436	9.0
22	1484	7.4	294	9.2	1531	9.1
23	1579	7.5	298	9.2	1627	9.3
24	1658	7.3	305	9.3	1689	9.4
25	1696	5.5	312	9.6	1702	9.5
26	1707	4.1	310	9.5	1712	9.5
27	1716	4.1	310	9.5	1721	9.6
28	1725	7.4	307	9.5	1730	9.2
29	1800	14.0	307	8.9	1870	8.6
30	1923	11.1	307	8.5	1976	8.3

JULY 28 1981
1700 RDT
SRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 8

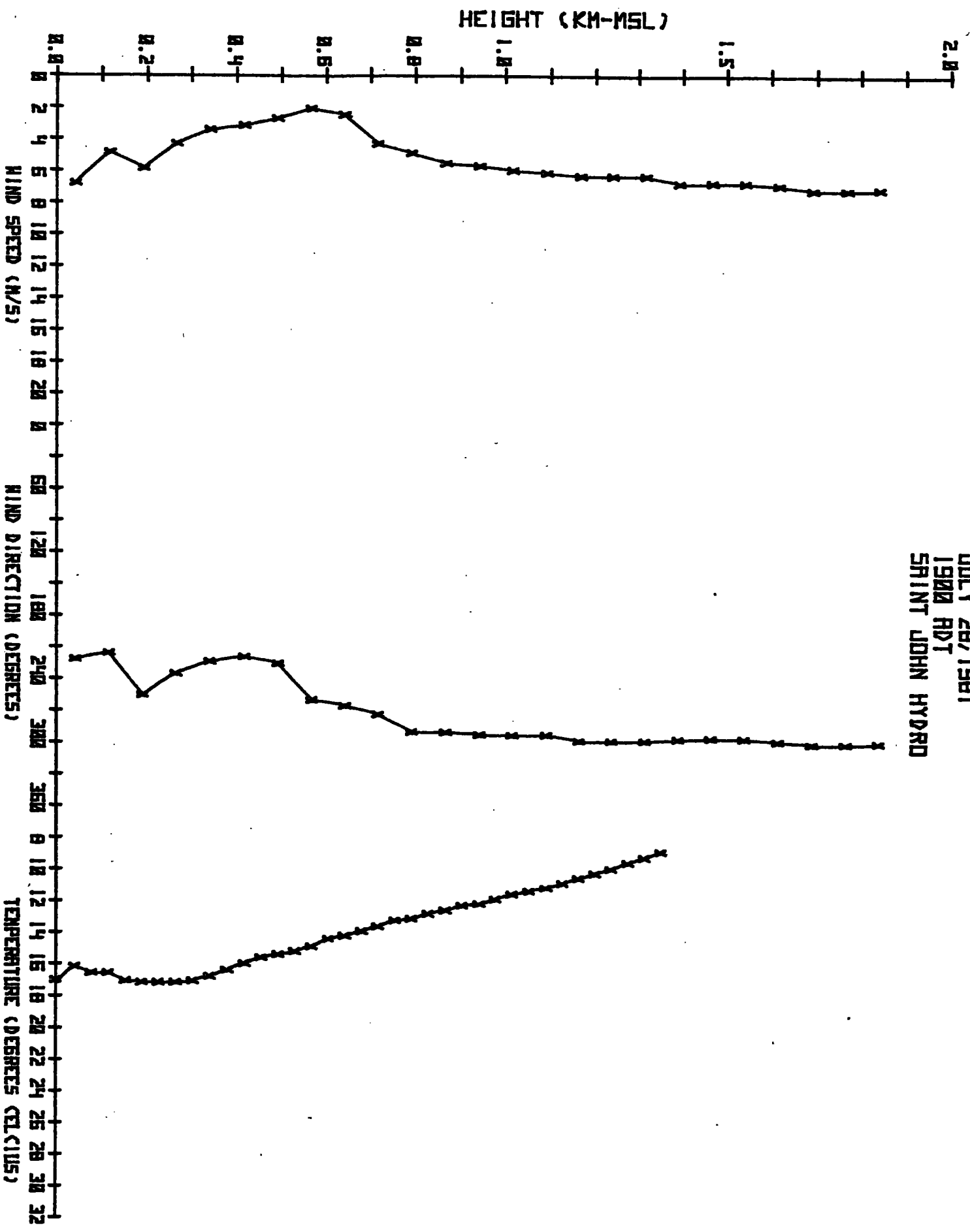
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 30

DATE JULY 28,1981 TIME 1900 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	5			17.1	SURFACE CONDITIONS	
1	43	6.8	222	16.2	80	16.6
2	118	4.9	216	16.6	155	17.1
3	193	5.9	256	17.2	230	17.2
4	268	4.3	236	17.2	305	17.1
5	343	3.4	224	16.8	380	16.4
6	418	3.1	219	16.0	455	15.6
7	493	2.7	226	15.4	530	15.2
8	568	2.0	261	14.9	605	14.4
9	643	2.5	266	14.2	680	13.9
10	718	4.3	274	13.6	755	13.2
11	793	4.9	290	13.1	830	12.8
12	868	5.5	290	12.6	905	12.3
13	943	5.7	293	12.2	980	11.9
14	1018	5.9	293	11.6	1055	11.4
15	1093	6.1	293	11.2	1130	10.9
16	1168	6.3	299	10.6	1205	10.3
17	1243	6.3	299	10.0	1280	9.6
18	1318	6.3	299	9.3	1355	8.9
19	1393	6.8	297	M		
20	1468	6.7	296	M		
21	1543	6.8	297	M		
22	1618	6.9	299	M		
23	1693	7.2	302	M		
24	1768	7.2	302	M		
25	1843	7.1	301	M		
26	1918	6.8	292	M		
27	1993	6.6	287	M		
28	2068	6.6	286	M		
29	2143	6.6	286	M		
30	2218	6.6	286	M		

JULY 28, 1981
1900 RDT
SRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 9

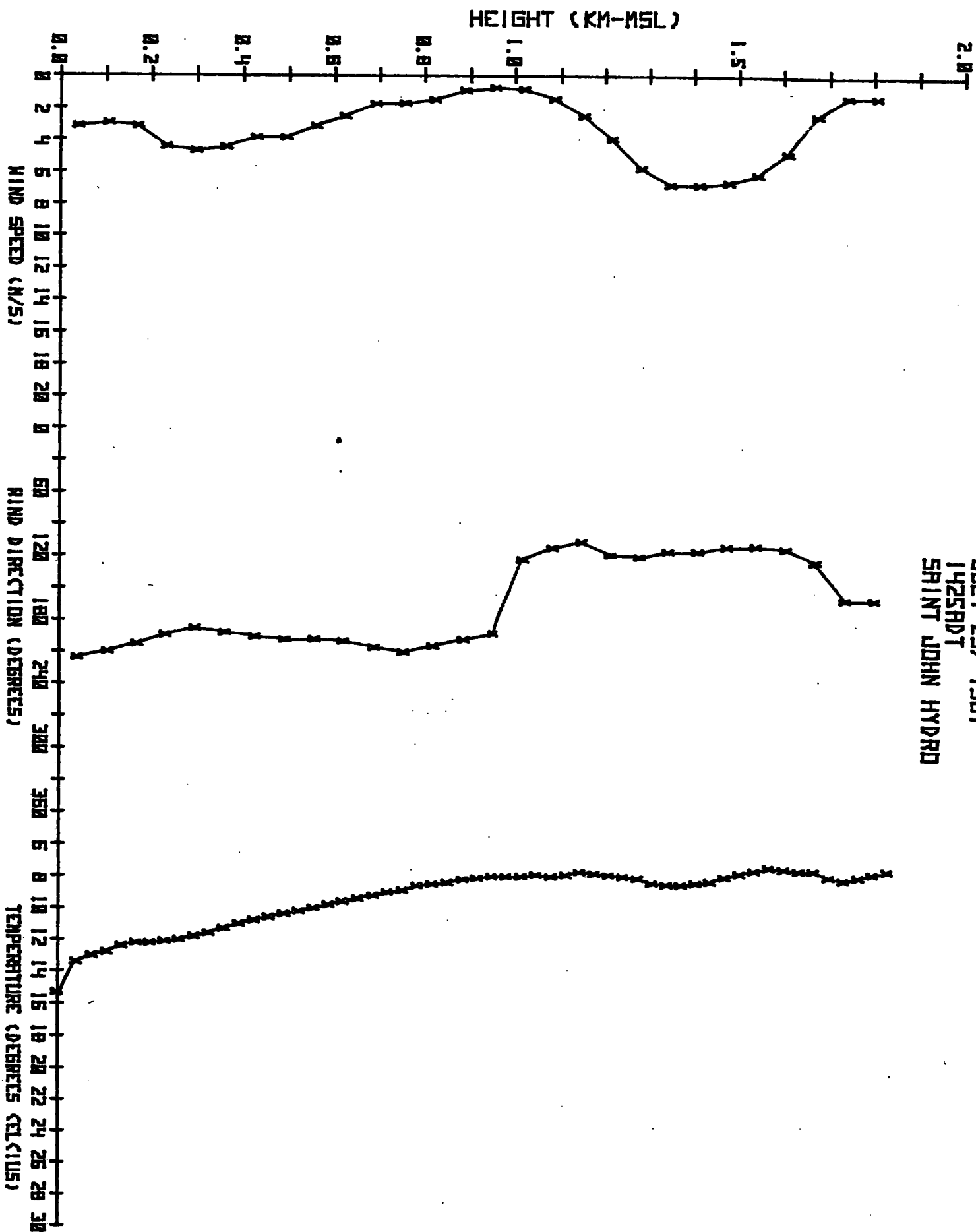
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 31

DATE JULY 29, 1981 TIME 1425ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	4			15.4		
1	39	3.2	215	13.4	74	13.0
2	106	3.0	210	12.8	139	12.4
3	171	3.2	203	12.2	202	12.2
4	234	4.5	194	12.1	266	12.0
5	299	4.7	188	11.8	331	11.6
6	364	4.5	192	11.3	397	11.0
7	430	3.9	196	10.8	462	10.6
8	495	3.9	198	10.4	528	10.2
9	561	3.2	198	10.0	594	9.8
10	626	2.6	200	9.6	659	9.4
11	692	1.8	206	9.2	725	9.0
12	758	1.7	210	8.9	791	8.6
13	823	1.5	204	8.5	856	8.4
14	889	0.9	198	8.2	922	8.1
15	955	0.8	192	8.0	987	8.0
16	1020	0.8	123	8.0	1053	7.9
17	1086	1.5	112	8.0	1118	7.9
18	1151	2.5	106	7.7	1184	7.8
19	1217	3.9	118	7.9	1250	8.0
20	1282	5.8	120	8.1	1315	8.4
21	1348	6.8	115	8.5	1381	8.5
22	1413	6.8	115	8.4	1446	8.3
23	1479	6.6	111	8.0	1512	7.8
24	1544	6.1	110	7.6	1577	7.4
25	1610	4.8	113	7.5	1643	7.6
26	1676	2.4	125	7.6	1708	8.0
27	1741	1.3	160	8.2	1774	8.0
28	1807	1.3	160	7.8	1839	7.6
29	1872	1.3	160	7.5	1905	7.4
30	1938	1.3	160	7.5	1970	7.6

JULY 29, 1981
1425RDT
SRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 10

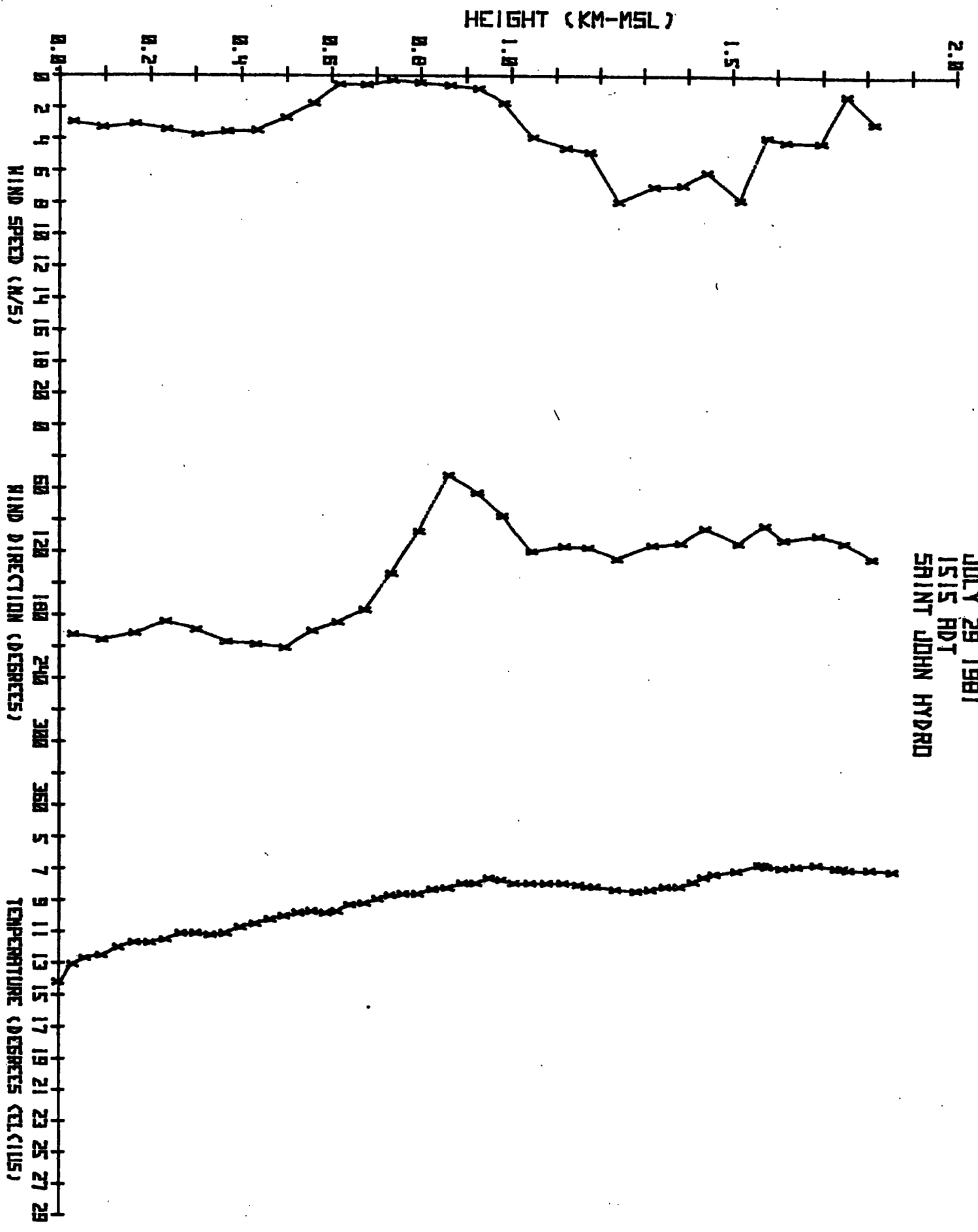
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 32

DATE JULY 29 1981 TIME 1515 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	5			14.3	SURFACE CONDITIONS	
1	32	3.0	199	13.1	59	12.7
2	96	3.3	204	12.5	133	12.0
3	168	3.1	197	11.7	203	11.7
4	238	3.4	186	11.5	272	11.1
5	305	3.8	194	11.1	338	11.2
6	371	3.5	205	11.1	404	10.7
7	436	3.5	208	10.5	469	10.2
8	500	2.7	211	10.0	531	9.8
9	562	1.8	195	9.7	593	9.8
10	620	0.6	187	9.7	648	9.3
11	679	0.6	175	9.2	711	8.9
12	739	0.3	141	8.7	768	8.6
13	800	0.5	101	8.6	832	8.3
14	865	0.6	47	8.2	897	7.9
15	928	0.8	64	7.9	958	7.6
16	986	1.7	86	7.7	1014	7.9
17	1050	3.9	120	7.9	1086	7.9
18	1123	4.6	115	7.9	1160	8.0
19	1179	4.8	116	8.1	1198	8.1
20	1245	7.9	127	8.3	1292	8.4
21	1325	7.0	113	8.3	1358	8.1
22	1389	6.9	111	8.1	1421	7.8
23	1445	6.1	98	7.5	1468	7.3
24	1520	7.8	112	7.1	1571	6.7
25	1579	3.9	95	6.7	1586	6.8
26	1620	4.2	108	6.9	1653	6.8
27	1697	4.2	104	6.7	1741	6.9
28	1754	1.2	111	6.9	1768	7.0
29	1818	3.0	126	7.0	1868	7.1
30	1914	1.5	127	7.3	1960	7.4

JULY 29 1981
1515 ADT
SAINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 11

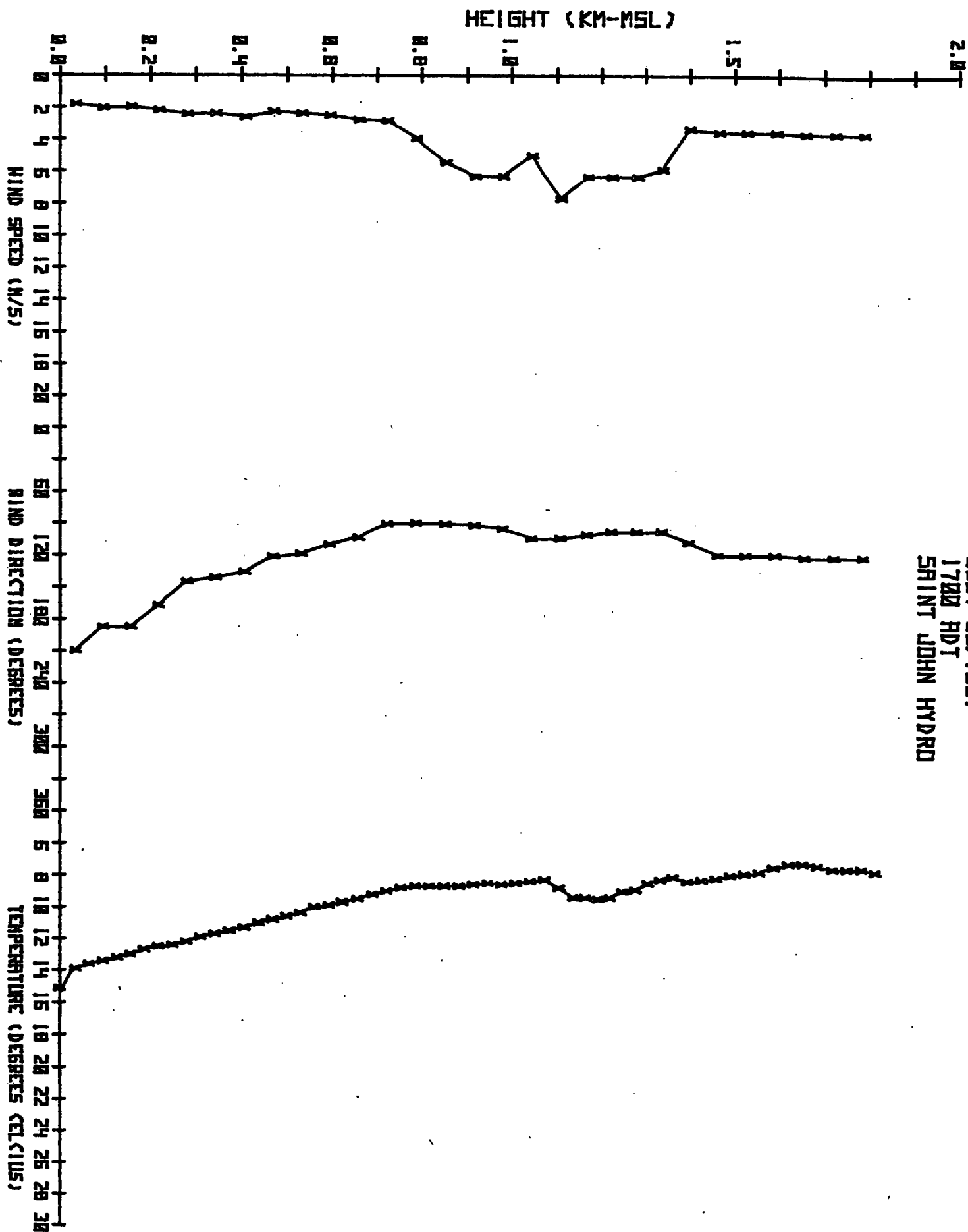
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 33

DATE JULY 29,1981 TIME 1700 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	5			15.2	SURFACE CONDITIONS	
1	35	1.8	209	13.9	66	13.6
2	97	2.0	187	13.4	129	13.2
3	158	2.0	187	13.0	188	12.7
4	220	2.2	167	12.5	251	12.4
5	283	2.4	145	12.2	314	11.9
6	346	2.4	141	11.7	377	11.5
7	410	2.6	136	11.3	442	11.0
8	472	2.2	121	10.8	502	10.6
9	534	2.4	118	10.4	565	10.0
10	597	2.5	109	9.9	629	9.7
11	661	2.8	103	9.5	693	9.2
12	725	2.8	90	9.0	758	8.8
13	790	3.9	90	8.7	822	8.7
14	855	5.4	90	8.7	887	8.7
15	919	6.3	92	8.6	951	8.5
16	983	6.3	95	8.6	1015	8.5
17	1047	5.0	104	8.4	1079	8.3
18	1111	7.7	103	8.8	1143	9.4
19	1171	6.3	100	9.4	1199	9.5
20	1228	6.3	97	9.4	1256	9.0
21	1284	6.3	97	8.9	1313	8.5
22	1341	5.8	97	8.3	1369	8.1
23	1402	3.3	107	8.4	1434	8.3
24	1467	3.5	119	8.2	1499	8.0
25	1531	3.5	119	7.9	1564	7.8
26	1596	3.5	119	7.5	1629	7.3
27	1661	3.6	122	7.3	1693	7.4
28	1726	3.6	122	7.6	1758	7.6
29	1791	3.6	122	7.6	1823	7.8
30	1855	3.6	122	7.8	1888	7.4

JULY 29, 1981
1700 RDT
SRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 12

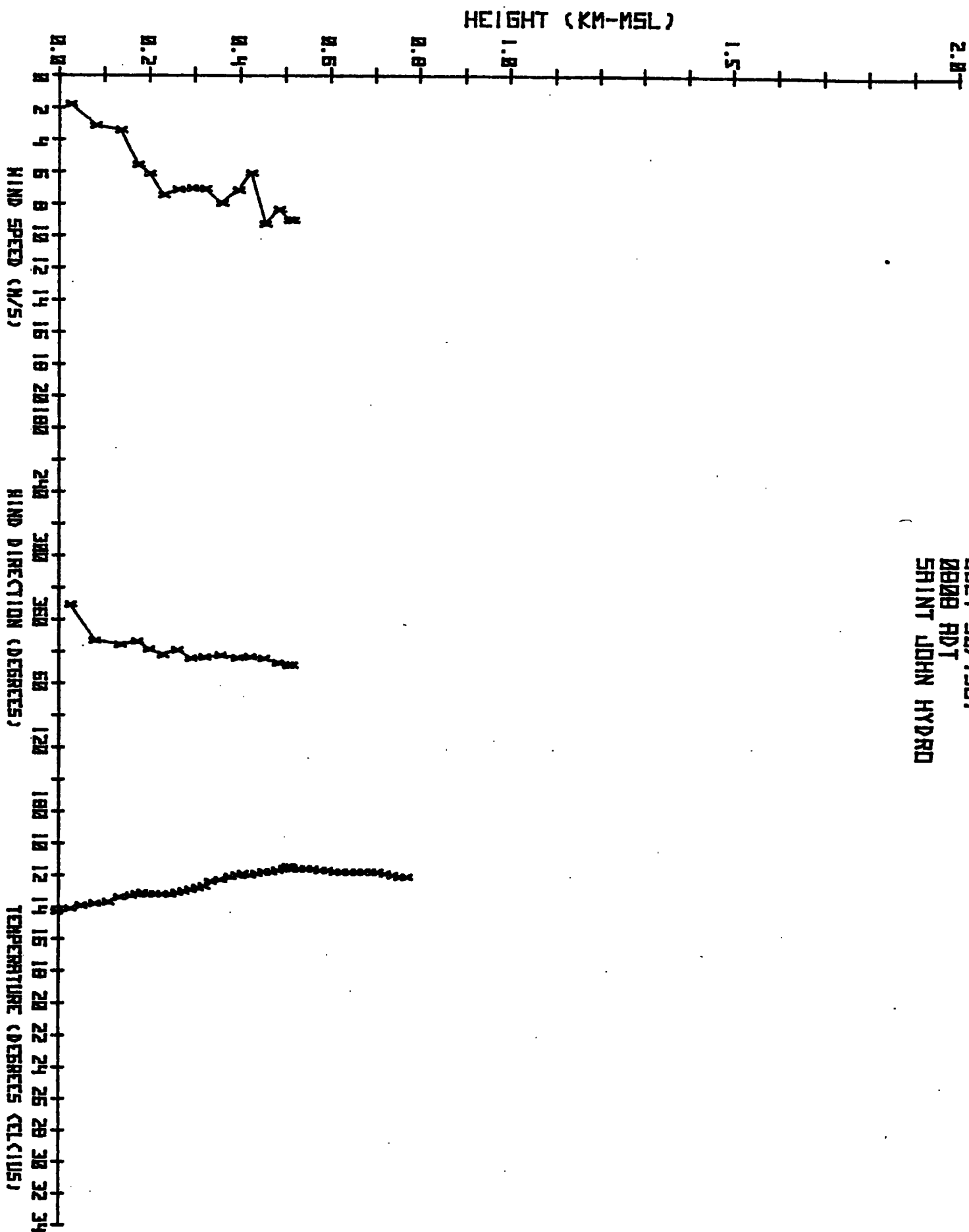
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 34

DATE JULY 30,1981 TIME 0808 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	3			14.4	SURFACE CONDITIONS	
1	27	1.8	346	14.1	51	13.9
2	82	3.1	20	13.8	113	13.7
3	138	3.4	24	13.4	164	13.3
4	176	5.6	21	13.2	189	13.1
5	203	6.1	28	13.2	216	13.2
6	234	7.5	33	13.2	251	13.2
7	266	7.1	29	13.1	281	13.0
8	297	7.0	37	12.9	313	12.8
9	327	7.1	35	12.7	342	12.4
10	363	8.0	34	12.3	384	12.1
11	398	7.2	36	12.0	412	11.9
12	427	6.1	35	12.0	442	11.9
13	458	9.3	37	11.8	474	11.8
14	489	8.4	41	11.7	504	11.6
15	511	9.0	43	11.5	519	11.5
16	519	9.0	43	11.6	520	11.6
17	536			11.6	552	11.6
18	569			11.6	585	11.7
19	601			11.7	617	11.8
20	633			11.8	649	11.8
21	666			11.8	682	11.8
22	698			11.8	714	11.8
23	730			11.9	746	12.0
24	762			12.1	779	12.1

JULY 30, 1981
0800 PDT
SRIINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 13

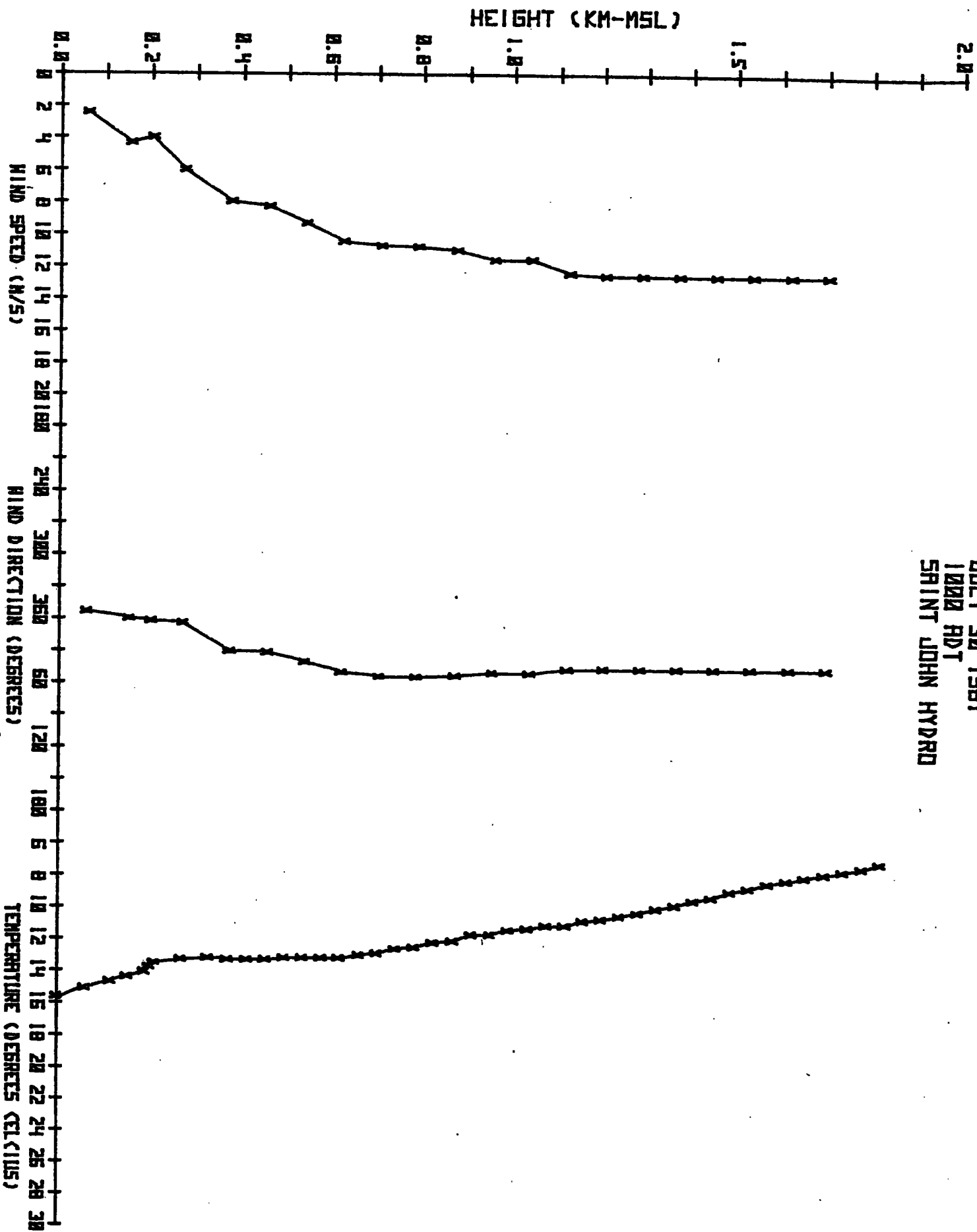
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 35

DATE JULY 30 1981 TIME 1000 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	5			15.7	SURFACE CONDITIONS	
1	61	2.4	354	15.1	117	14.7
2	155	4.4	360	14.4	193	14.1
3	204	4.0	2	13.8	215	13.5
4	275	6.0	4	13.3	335	13.2
5	377	8.0	30	13.3	418	13.3
6	460	8.3	32	13.3	502	13.2
7	543	9.3	40	13.2	585	13.2
8	626	10.4	50	13.2	668	13.0
9	709	10.7	54	12.9	751	12.6
10	792	10.8	54	12.5	834	12.2
11	875	11.0	53	12.1	916	11.7
12	958	11.6	50	11.7	999	11.4
13	1041	11.5	50	11.3	1082	11.1
14	1124	12.4	46	11.1	1165	10.8
15	1207	12.5	46	10.7	1248	10.5
16	1290	12.5	46	10.3	1331	10.0
17	1372	12.5	46	9.8	1414	9.5
18	1455	12.5	46	9.3	1497	8.9
19	1538	12.5	46	8.7	1580	8.4
20	1621	12.5	46	8.2	1663	8.0
21	1704	12.5	46	7.8	1745	7.6
22	1787			7.4	1828	7.1
23	1870			6.9	1911	6.6
24	1953			6.3	1994	6.2
25	2036			6.2	2077	6.0
26	2118			5.9	2160	5.7
27	2201			5.7	2243	5.5
28	2284			5.3	2326	5.1
29	2367			5.1	2409	5.1
30	2450			4.9	2491	5.1

JULY 30 1981
1000 PDT
SRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 14

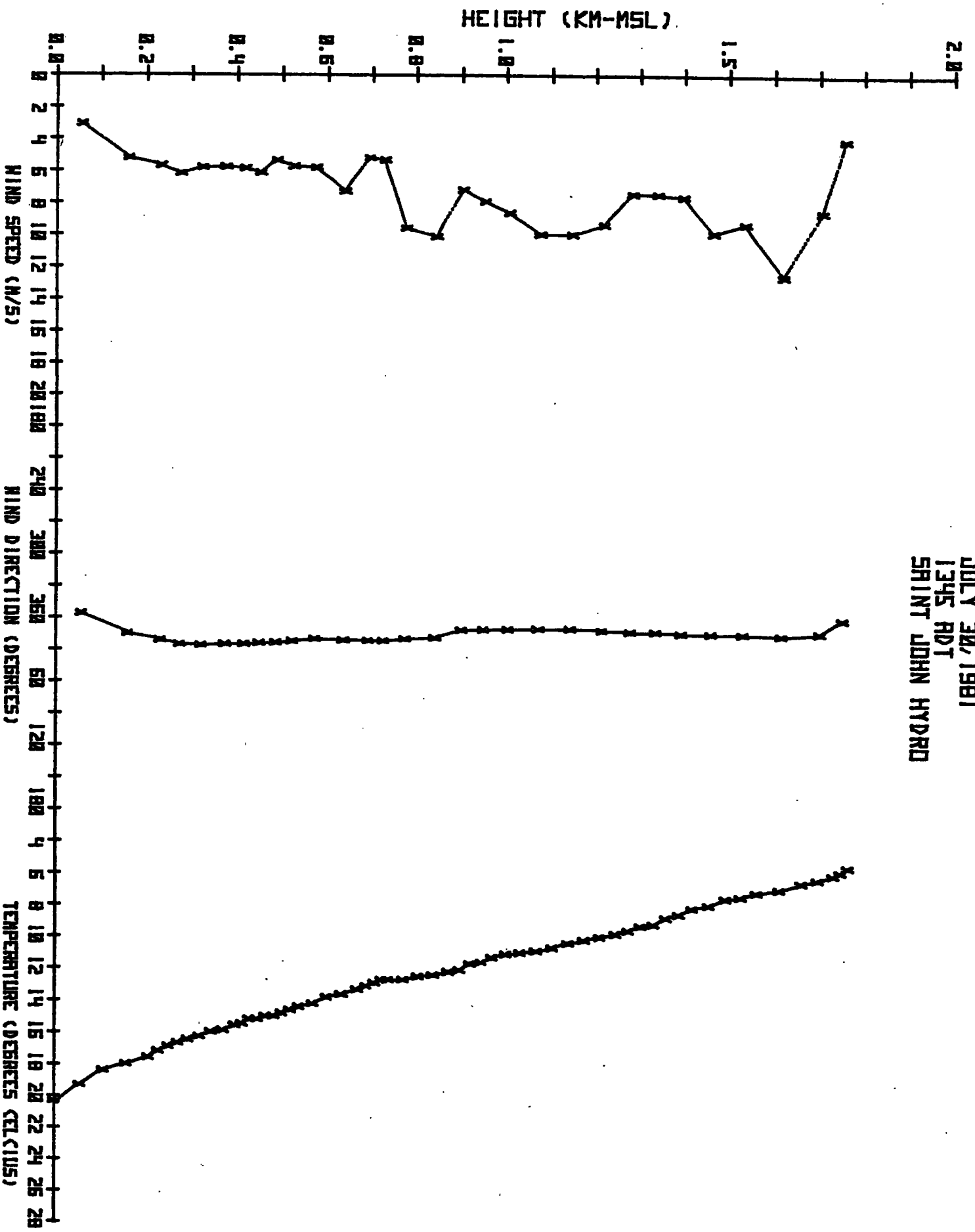
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 36

DATE JULY 30,1981 TIME 1345 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	5			20.4	SURFACE CONDITIONS	
1	58	3.1	356	19.3	110	18.4
2	161	5.2	15	18.0	211	17.6
3	233	5.7	21	17.2	255	16.9
4	277	6.2	25	16.7	299	16.5
5	325	5.8	26	16.3	351	16.0
6	377	5.8	25	15.9	403	15.6
7	419	5.9	25	15.5	434	15.2
8	452	6.1	24	15.2	471	15.0
9	489	5.4	24	15.0	507	14.8
10	526	5.7	22	14.6	545	14.4
11	576	5.8	20	14.2	608	13.8
12	642	7.3	21	13.6	676	13.3
13	696	5.2	21	13.1	716	12.9
14	731	5.3	22	12.7	746	12.7
15	780	9.6	20	12.7	813	12.5
16	846	10.1	19	12.4	879	12.2
17	904	7.2	11	12.1	928	11.7
18	953	7.9	11	11.6	978	11.3
19	1009	8.6	11	11.1	1040	11.0
20	1076	9.9	10	10.9	1112	10.7
21	1148	9.9	10	10.4	1184	10.2
22	1220	9.4	12	10.0	1256	9.8
23	1285	7.4	13	9.6	1313	9.3
24	1341	7.4	13	9.2	1369	8.8
25	1399	7.6	14	8.6	1428	8.2
26	1466	9.9	15	8.0	1504	7.6
27	1539	9.3	15	7.5	1573	7.2
28	1623	12.6	16	7.0	1673	6.6
29	1707	8.5	14	6.4	1742	6.1
30	1758	4.0	1	5.9	1774	5.6

JULY 30, 1981
1345 PDT
SAINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 15

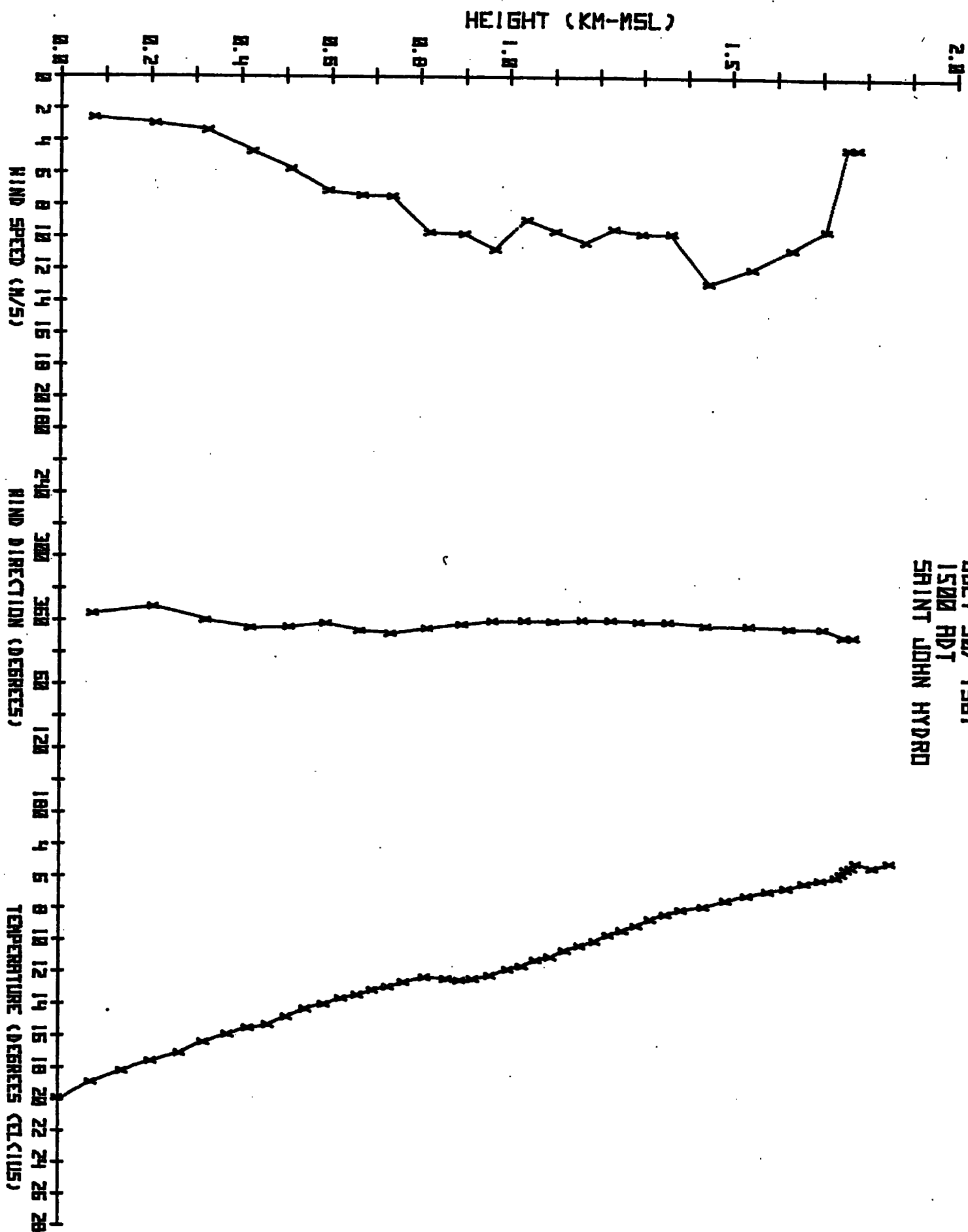
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 37

DATE JULY 30, 1981 TIME 1500 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	5			20.0	SURFACE CONDITIONS	
1	75	2.6	354	18.9	144	18.2
2	210	3.0	347	17.6	275	17.1
3	328	3.4	360	16.4	381	15.9
4	426	4.7	7	15.5	470	15.3
5	512	5.8	6	14.8	554	14.3
6	595	7.1	2	14.0	635	13.6
7	670	7.4	10	13.4	705	13.1
8	740	7.5	12	12.9	775	12.6
9	822	9.7	7	12.3	869	12.4
10	899	9.8	3	12.5	929	12.4
11	969	10.8	360	12.2	1009	11.8
12	1039	8.9	359	11.6	1070	11.2
13	1102	9.6	360	11.0	1135	10.6
14	1169	10.4	358	10.3	1204	10.0
15	1235	9.5	359	9.6	1267	9.3
16	1298	9.8	360	9.0	1330	8.6
17	1364	9.7	360	8.3	1399	8.0
18	1450	12.8	3	7.8	1500	7.4
19	1547	11.9	3	7.1	1594	6.8
20	1635	10.7	5	6.6	1676	6.3
21	1711	9.5	6	6.1	1746	5.9
22	1756	4.4	13	5.7	1767	5.4
23	1777	4.4	13	5.3	1788	5.0
24	1827			5.3	1865	5.0
25	1904			4.8	1943	4.5
26	1982			4.4	2020	4.1
27	2059			3.9	2098	3.7
28	2137			3.6	2175	3.4
29	2214			3.3	2253	2.9
30	2292			2.8	2331	2.7

JULY 30, 1981
1500 PDT
SRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 16

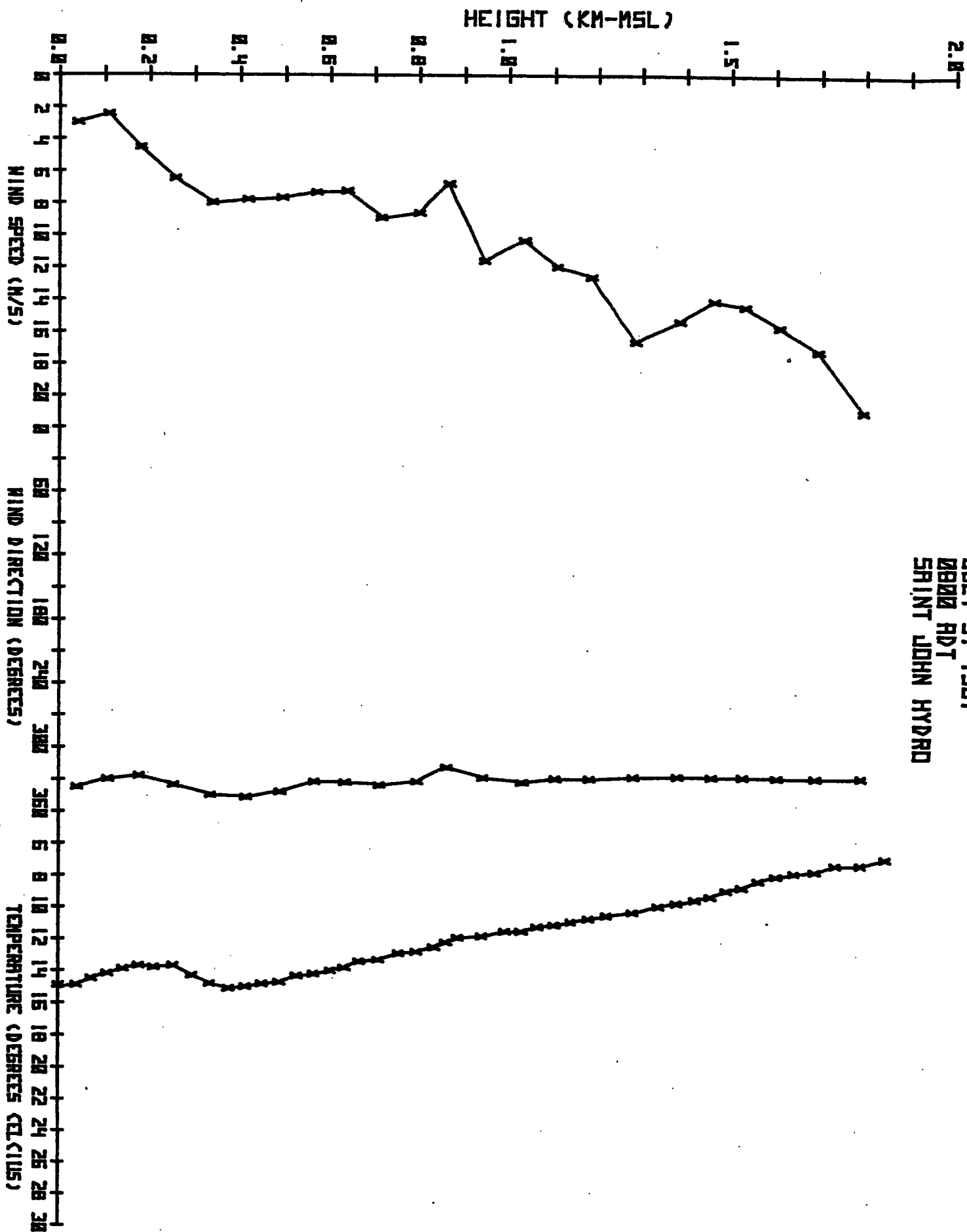
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 38

DATE JULY 31 1981 TIME 0800 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
					SURFACE CONDITIONS	
0	7			15.0		
1	41	3.0	337	14.9	75	14.5
2	110	2.4	330	14.2	146	13.9
3	180	4.5	327	13.7	215	13.8
4	258	6.5	335	13.7	301	14.3
5	341	8.0	345	14.8	381	15.1
6	418	7.8	347	15.0	455	14.8
7	494	7.7	342	14.7	533	14.3
8	571	7.3	332	14.2	609	14.0
9	641	7.2	333	13.8	673	13.4
10	718	8.9	336	13.3	762	12.9
11	802	8.6	332	12.8	841	12.5
12	867	6.8	318	12.2	892	11.9
13	946	11.6	328	11.8	999	11.5
14	1035	10.3	332	11.5	1071	11.2
15	1109	11.9	329	11.1	1146	10.9
16	1187	12.5	329	10.7	1228	10.5
17	1287	16.6	327	10.3	1346	9.9
18	1387	15.3	327	9.7	1428	9.5
19	1464	14.0	327	9.3	1499	8.9
20	1535	14.4	327	8.7	1571	8.3
21	1611	15.7	328	8.0	1650	7.8
22	1696	17.2	328	7.7	1741	7.3
23	1797	21.0	328	7.3	1853	6.9
24	1910	21.7	329	6.7	1967	6.4
25	2025	22.1	330	6.1	2084	5.9
26	2142	22.1	330	5.7	2200	5.5
27	2258	22.1	330	5.4	2316	5.2
28	2374	22.1	330	5.0	2432	4.7
29	2490	22.1	330	4.7	2548	4.5
30	2606	22.1	330	4.3	2664	4.2

JULY 31 1981
 0800 RDT
 SPRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 17

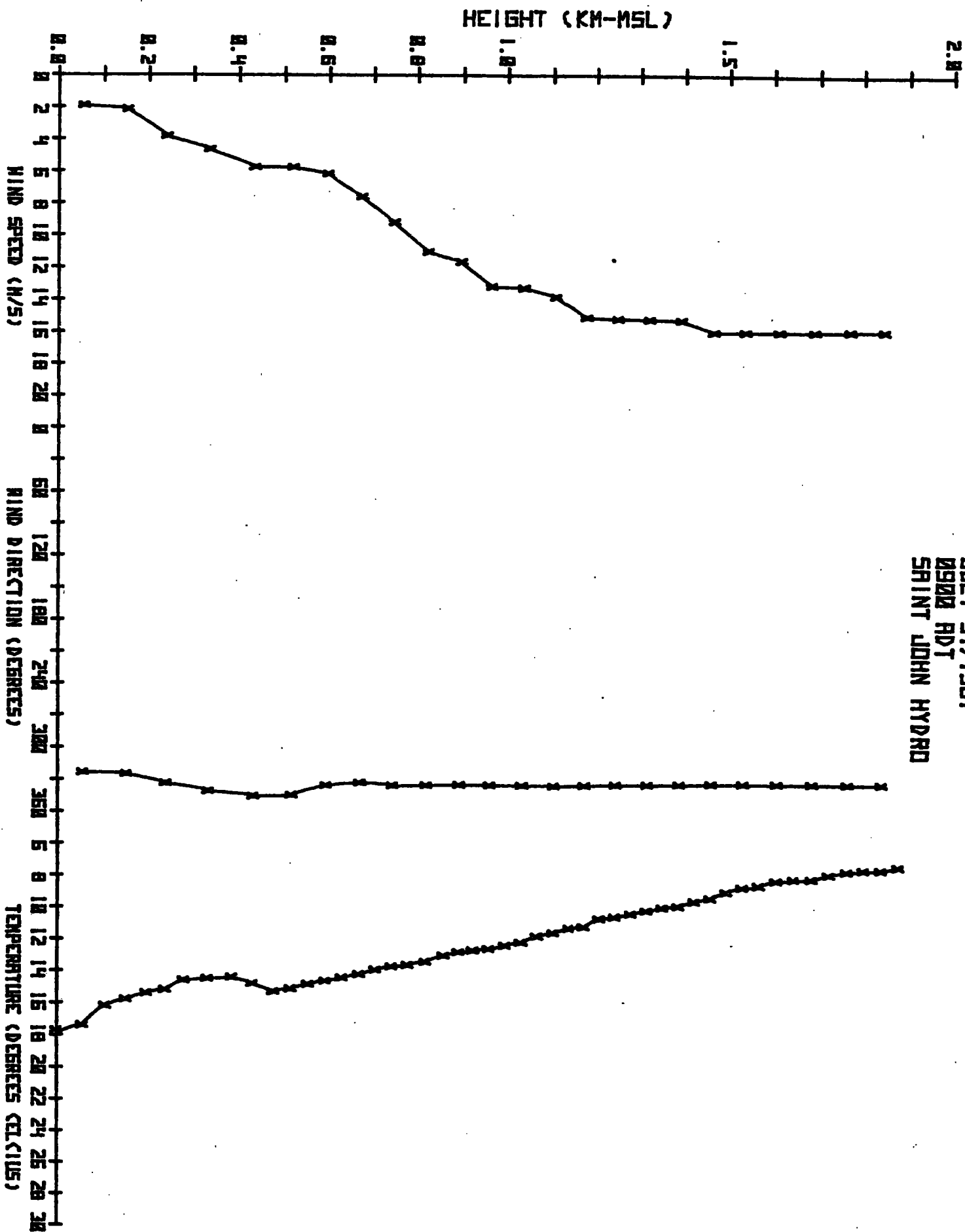
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 39

DATE JULY 31,1981 TIME 0900 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	5			17.8	SURFACE CONDITIONS	
1	56	1.9	324	17.4	108	16.2
2	154	2.1	325	15.8	199	15.4
3	242	3.8	334	15.2	284	14.6
4	337	4.6	341	14.5	389	14.4
5	436	5.8	346	14.8	482	15.3
6	521	5.8	345	15.1	560	14.8
7	599	6.2	336	14.6	637	14.4
8	675	7.6	333	14.2	712	13.9
9	748	9.2	336	13.7	785	13.6
10	824	11.0	335	13.4	864	13.0
11	896	11.6	335	12.8	929	12.7
12	966	13.2	335	12.6	1002	12.4
13	1037	13.3	335	12.2	1073	11.8
14	1108	13.8	336	11.6	1143	11.3
15	1179	15.1	335	11.2	1214	10.7
16	1250	15.2	335	10.6	1285	10.4
17	1321	15.2	334	10.2	1357	10.0
18	1394	15.2	334	9.9	1430	9.6
19	1466	16.0	334	9.4	1502	9.0
20	1538	16.0	334	8.7	1574	8.6
21	1613	16.0	334	8.3	1652	8.2
22	1691	16.0	334	8.2	1730	7.9
23	1769	15.9	334	7.7	1808	7.6
24	1847	15.9	334	7.6	1886	7.4
25	1925	15.9	334	7.4	1964	7.2
26	2003	15.9	334	6.9	2042	6.6
27	2081	15.9	334	6.3	2120	5.7
28	2159	15.9	334	5.6	2198	5.4
29	2237	15.9	334	5.2	2276	4.9
30	2315	15.9	334	4.7	2354	4.6

JULY 31, 1981
 0900 PDT
 SAINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 18

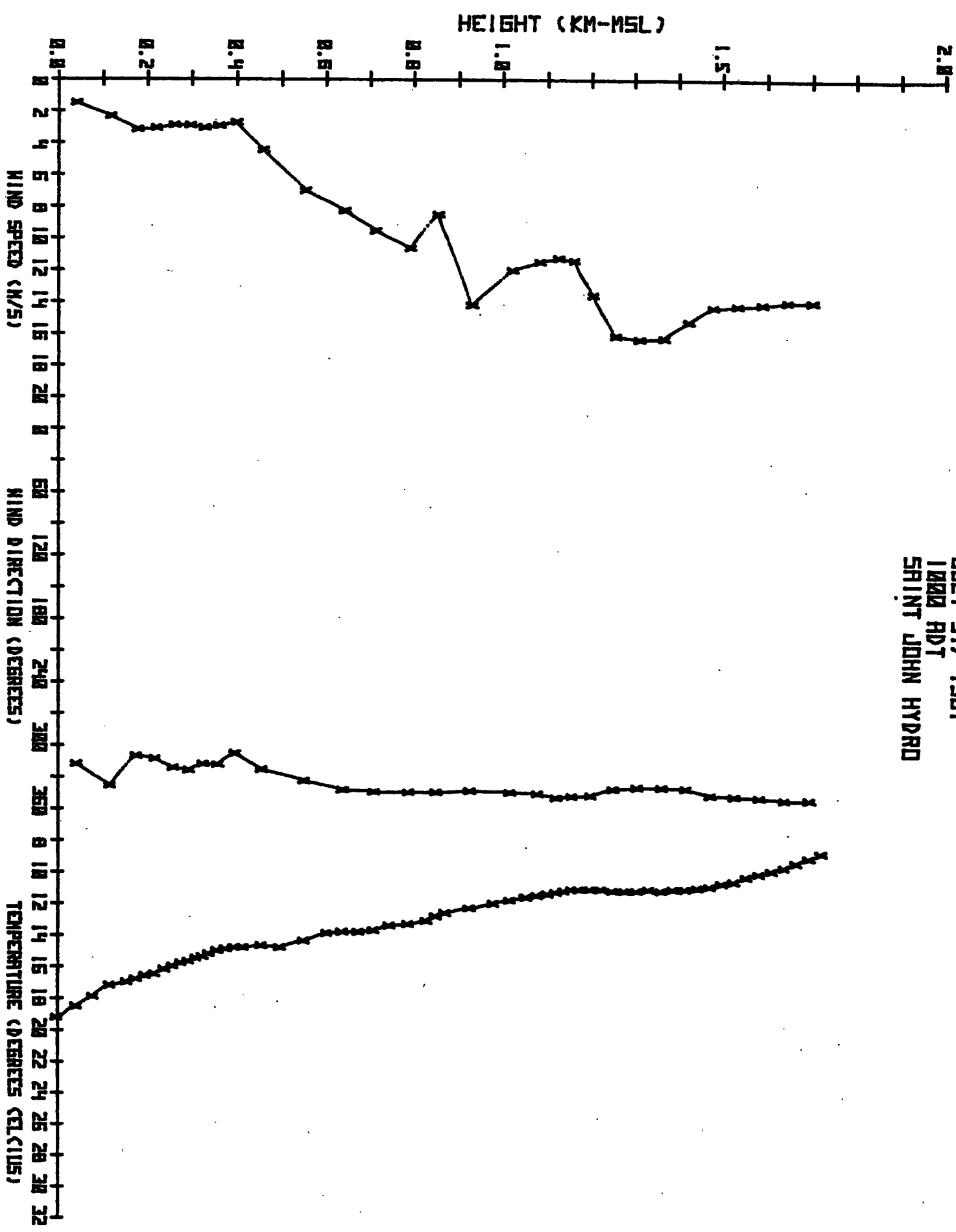
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 40

DATE JULY 31, 1981 TIME 1000 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	3			19.3	SURFACE CONDITIONS	
1	42	1.5	318	18.5	80	17.9
2	119	2.3	338	17.2	157	17.0
3	178	3.2	310	16.8	199	16.6
4	221	3.1	313	16.5	243	16.2
5	262	2.9	322	16.0	281	15.8
6	298	2.9	324	15.7	315	15.5
7	329	3.1	318	15.4	344	15.2
8	363	2.9	318	15.0	382	14.9
9	400	2.7	308	14.8	419	14.8
10	460	4.5	323	14.7	502	14.8
11	555	7.0	334	14.4	609	13.9
12	644	8.3	342	13.8	680	13.8
13	716	9.5	344	13.7	752	13.4
14	793	10.6	345	13.3	835	13.1
15	856	8.5	344	12.8	876	12.6
16	931	14.2	343	12.3	987	12.0
17	1023	12.0	345	11.8	1060	11.6
18	1084	11.5	346	11.5	1108	11.4
19	1127	11.2	350	11.3	1145	11.2
20	1163	11.4	348	11.1	1181	11.1
21	1206	13.6	347	11.1	1232	11.1
22	1259	16.1	341	11.2	1286	11.2
23	1314	16.3	340	11.2	1341	11.1
24	1369	16.3	340	11.2	1397	11.1
25	1425	15.2	341	11.1	1453	11.0
26	1481	14.3	347	10.9	1509	10.7
27	1536	14.2	348	10.6	1564	10.3
28	1592	14.2	350	10.1	1620	9.9
29	1648	14.0	352	9.7	1676	9.4
30	1704	14.0	352	9.1	1732	8.8

JULY 31, 1981
1000 ADT
SHINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 19

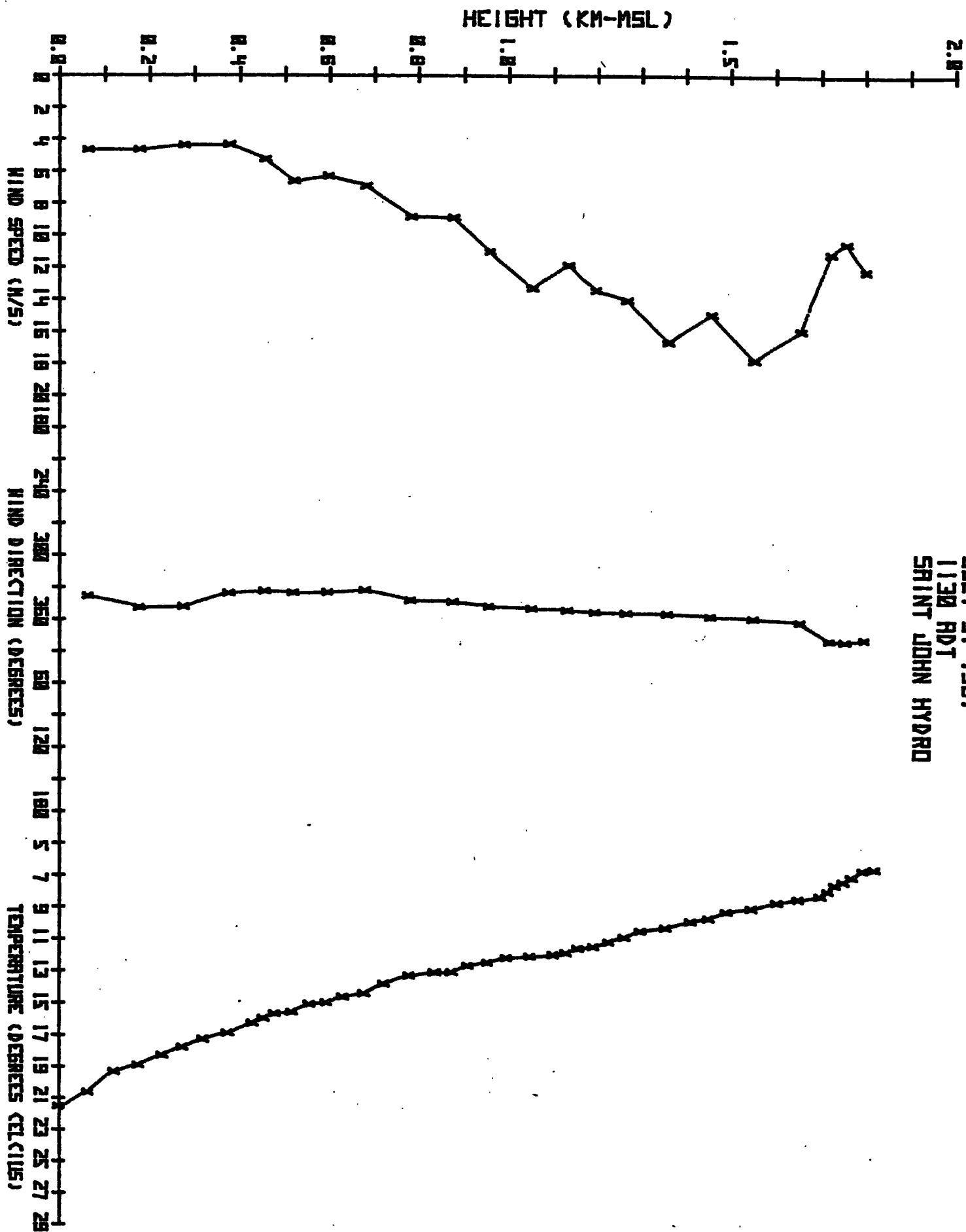
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 41

DATE JULY 31 1981 TIME 1130 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	5			21.6	SURFACE CONDITIONS	
1	65	4.7	338	20.6	124	19.3
2	178	4.7	349	18.9	233	18.3
3	279	4.4	348	17.8	325	17.3
4	379	4.3	335	16.9	434	16.3
5	458	5.3	334	16.0	482	15.7
6	522	6.6	335	15.6	561	15.1
7	599	6.3	335	15.0	638	14.6
8	683	6.9	333	14.4	728	13.8
9	785	8.8	342	13.3	842	13.1
10	879	8.9	344	13.1	915	12.7
11	959	11.0	348	12.5	1003	12.2
12	1054	13.3	350	12.1	1106	12.0
13	1134	11.8	351	11.9	1163	11.6
14	1198	13.4	353	11.5	1233	11.2
15	1269	14.0	354	10.9	1305	10.5
16	1362	16.6	355	10.3	1419	9.9
17	1459	14.9	357	9.7	1500	9.3
18	1556	17.8	359	9.1	1612	8.7
19	1660	15.9	2	8.5	1708	8.3
20	1724	11.2	20	8.0	1741	7.6
21	1759	10.5	21	7.4	1777	7.1
22	1803	12.2	19	6.7	1829	6.6
23	1869	19.1	14	6.3	1909	6.1
24	1949	19.0	12	5.7	1989	5.7
25	2030	19.0	10	5.7	2070	5.8
26	2110	19.0	10	5.8	2150	5.8
27	2190	19.1	10	5.8	2230	5.7
28	2270	20.1	10	5.6	2310	5.5
29	2350	20.3	16	5.7	2391	6.1
30	2431	20.4	16	6.3	2471	6.2

JULY 31 1981
1130 ADT
SRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 20

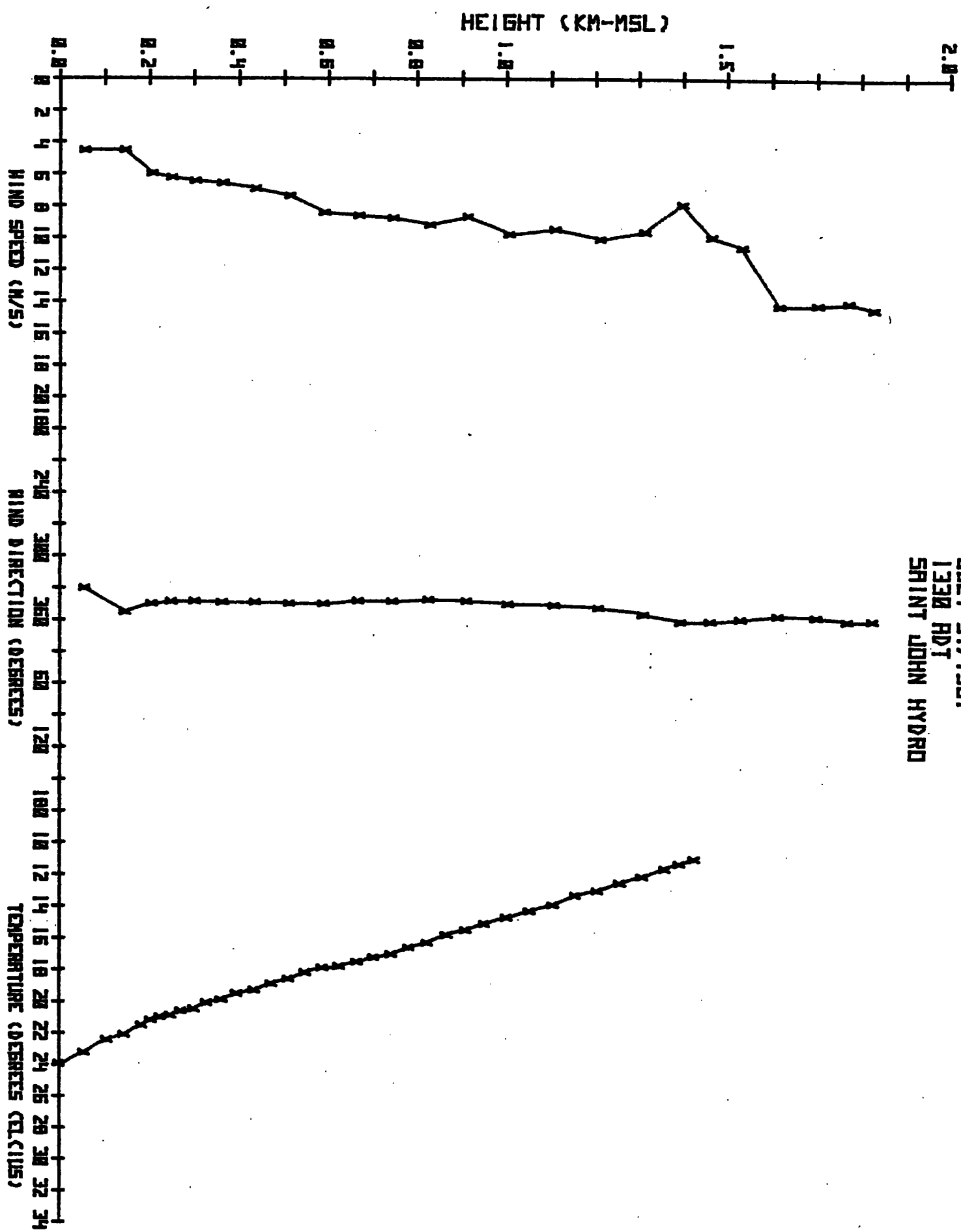
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 42

DATE JULY 31,1981 TIME 1330 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	5			24.0	SURFACE CONDITIONS	
1	56	4.5	330	23.2	108	22.4
2	147	4.5	353	22.1	186	21.5
3	207	6.0	345	21.2	228	21.0
4	252	6.2	343	20.9	276	20.6
5	304	6.4	342	20.5	333	20.1
6	366	6.6	343	19.9	400	19.5
7	439	6.9	343	19.3	477	18.9
8	516	7.4	344	18.6	554	18.2
9	593	8.4	345	17.9	632	17.8
10	670	8.6	342	17.5	709	17.2
11	749	8.7	342	17.0	788	16.6
12	830	9.2	341	16.3	872	15.8
13	914	8.7	342	15.5	957	15.1
14	1008	9.7	345	14.7	1059	14.3
15	1111	9.4	346	13.9	1162	13.3
16	1213	10.0	348	13.0	1264	12.5
17	1315	9.6	354	12.1	1366	11.6
18	1400	7.8	1	11.3	1433	11.0
19	1467	9.9	1	M		
20	1537	10.5	359	M		
21	1619	14.2	356	M		
22	1705	14.2	357	M		
23	1773	14.0	1	M		
24	1831	14.5	360	M		
25	1895	18.9	359	M		
26	1965	18.9	359	M		
27	2034	18.9	359	M		
28	2103	18.8	1	M		
29	2173	18.8	360	M		
30	2242	18.8	360	M		

JULY 31, 1981
1300 PDT
SRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 21

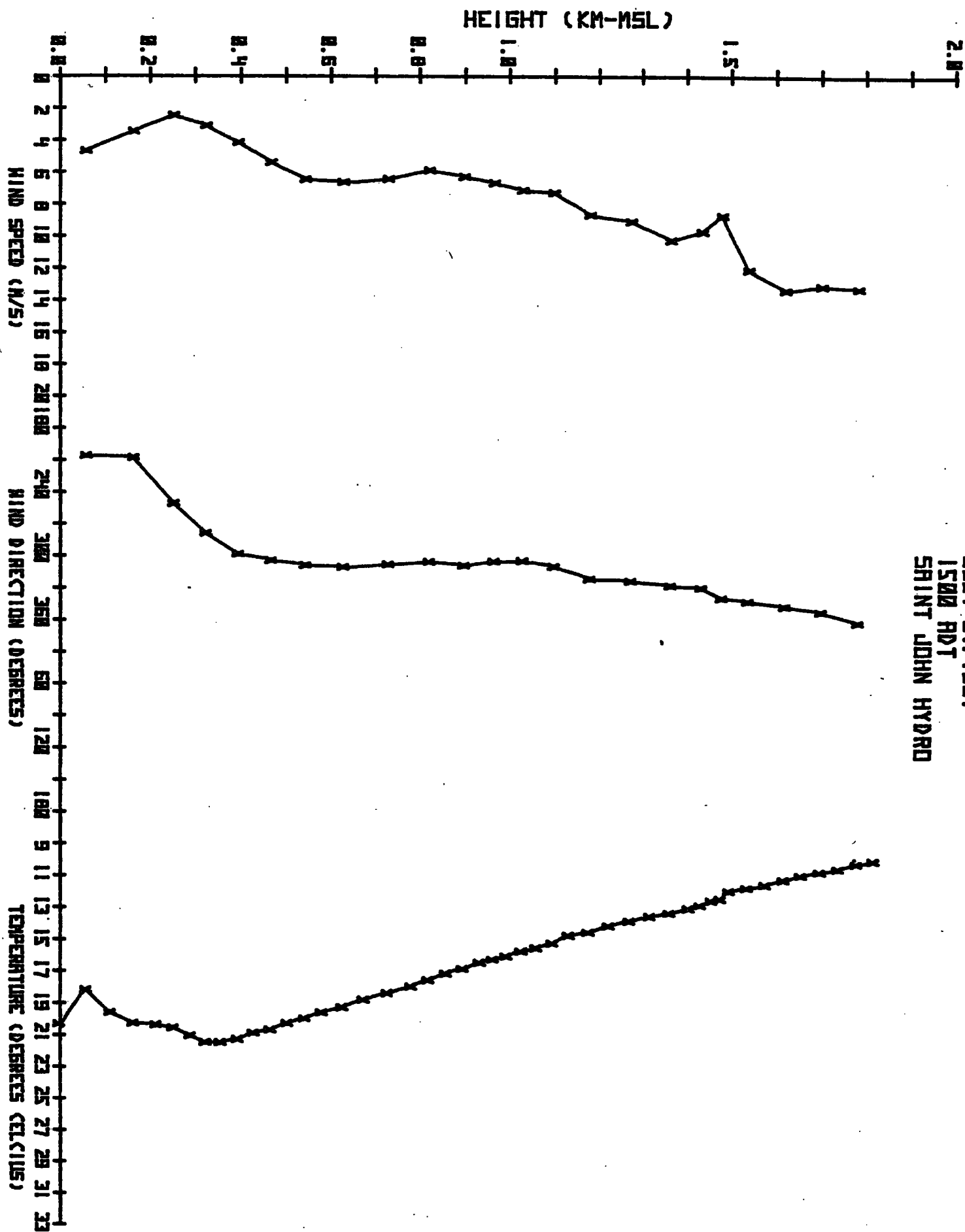
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 43

DATE JULY 31,1981 TIME 1500 ADT

BLINE 274.4 GPA -3.0 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	4			20.4	SURFACE CONDITIONS	
1	59	4.7	206	18.2	114	19.6
2	164	3.5	208	20.3	215	20.4
3	254	2.5	251	20.6	293	21.1
4	327	3.1	279	21.5	360	21.5
5	396	4.2	299	21.3	431	20.9
6	469	5.4	305	20.7	507	20.3
7	545	6.5	309	20.0	584	19.6
8	631	6.6	311	19.3	678	18.8
9	732	6.4	308	18.4	786	18.0
10	824	5.9	306	17.6	862	17.2
11	900	6.3	309	16.9	938	16.5
12	968	6.7	305	16.3	998	16.1
13	1031	7.1	305	15.8	1064	15.6
14	1100	7.3	310	15.3	1136	14.8
15	1183	8.7	322	14.6	1229	14.2
16	1276	9.1	324	13.9	1322	13.6
17	1366	10.2	328	13.4	1410	13.1
18	1436	9.7	330	12.9	1462	12.6
19	1482	8.7	340	12.5	1502	12.0
20	1542	12.1	343	11.8	1582	11.6
21	1623	13.4	348	11.3	1663	11.0
22	1704	13.1	353	10.8	1744	10.6
23	1784	13.3	3	10.3	1825	10.1
24	1865	14.7	3	9.9	1905	9.7
25	1946	15.2	3	9.4	1986	9.0
26	2026	15.2	3	8.7	2067	8.5
27	2107	15.2	3	8.3	2148	7.9
28	2188	15.2	360	7.7	2228	7.6
29	2269	15.2	360	7.7	2309	7.8
30	2349	15.2	360	7.8	2390	7.7

JULY 31, 1981
1500 PDT
SRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 1

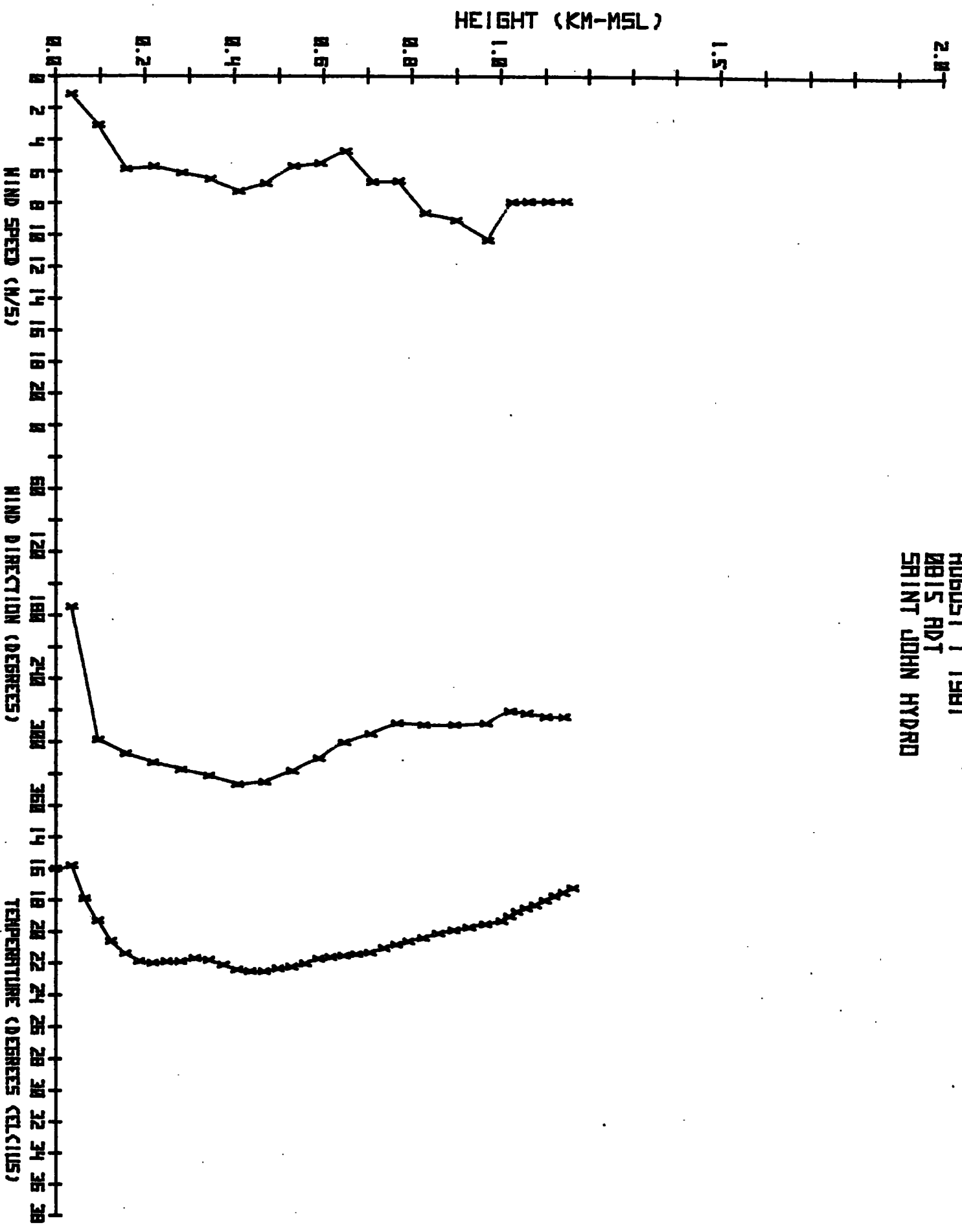
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 44

DATE AUGUST 1 1981 TIME 0815 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	8			16.1	SURFACE CONDITIONS	
1	37	1.1	172	15.8	67	17.9
2	97	3.1	298	19.3	128	20.6
3	160	5.9	311	21.4	192	21.9
4	223	5.7	319	22.0	254	21.9
5	286	6.1	326	21.9	318	21.7
6	350	6.5	332	21.8	381	22.1
7	411	7.3	340	22.4	441	22.5
8	472	6.8	338	22.5	504	22.3
9	535	5.7	327	22.2	566	22.0
10	595	5.5	315	21.7	624	21.6
11	653	4.7	300	21.5	681	21.4
12	713	6.7	292	21.3	745	21.0
13	772	6.6	282	20.8	800	20.6
14	832	8.6	284	20.4	865	20.1
15	900	9.1	284	19.9	936	19.7
16	973	10.3	282	19.5	1010	19.3
17	1027	7.9	271	19.0	1044	18.7
18	1064	7.9	273	18.5	1085	18.3
19	1106	7.9	276	18.0	1128	17.7
20	1150	7.9	276	17.5	1172	17.2

AUGUST 1 1981
0815 ADT
SPRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 2

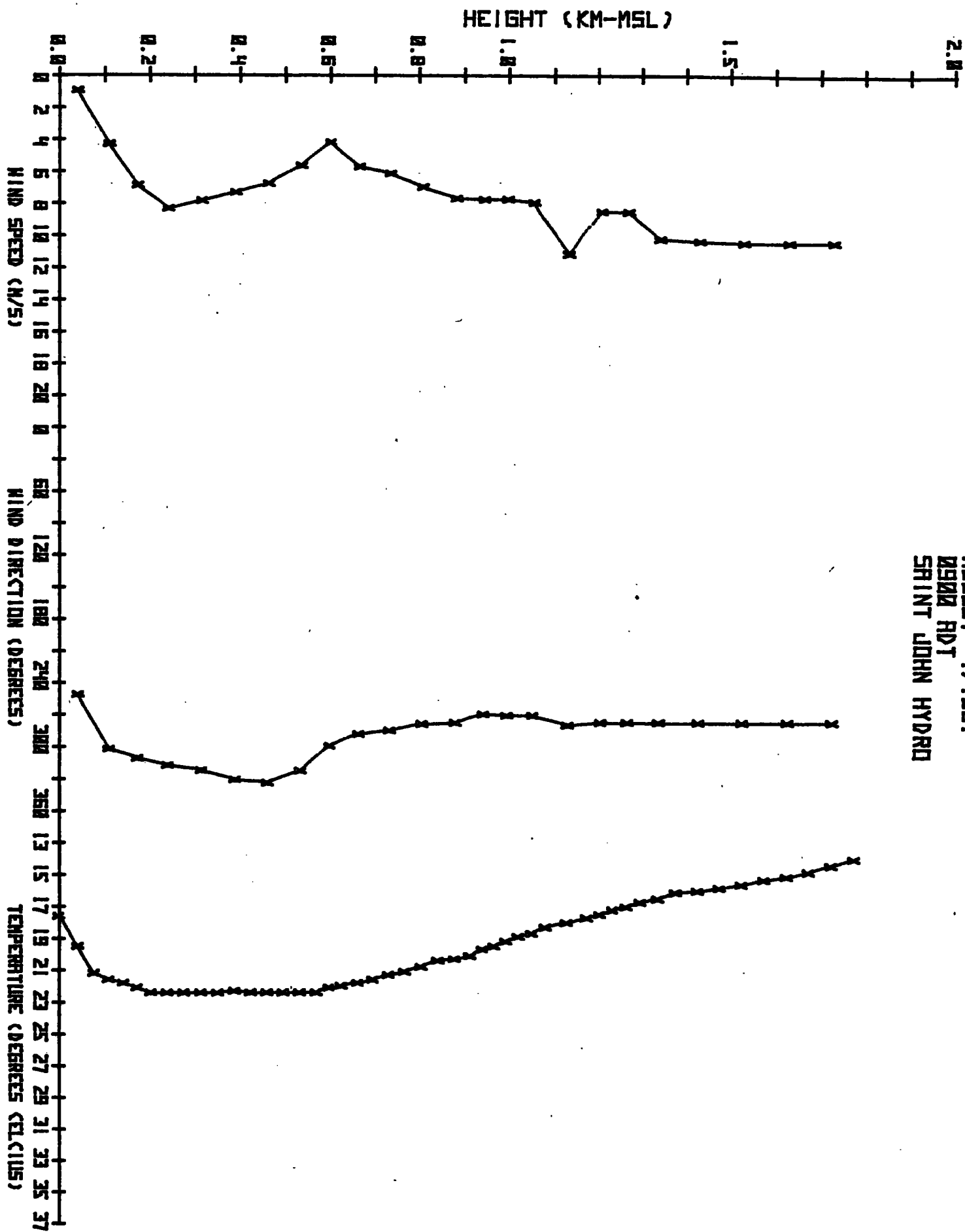
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 45

DATE AUGUST 1,1981 TIME 0900 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	5			17.7	SURFACE CONDITIONS	
1	42	0.9	251	19.5	78	21.2
2	111	4.3	302	21.6	144	21.8
3	175	6.9	311	22.1	206	22.4
4	243	8.3	318	22.4	280	22.4
5	318	7.8	322	22.4	356	22.4
6	392	7.3	331	22.3	428	22.4
7	464	6.7	334	22.4	501	22.4
8	538	5.6	322	22.4	575	22.4
9	603	4.2	299	22.1	632	22.0
10	667	5.7	288	21.8	702	21.6
11	738	6.1	285	21.3	773	21.1
12	810	7.0	278	20.8	847	20.4
13	883	7.7	277	20.3	919	20.1
14	946	7.7	269	19.7	973	19.5
15	1000	7.7	271	19.2	1027	18.9
16	1056	7.9	271	18.7	1086	18.3
17	1134	11.1	280	18.0	1181	17.7
18	1210	8.5	277	17.5	1240	17.2
19	1271	8.5	277	17.0	1302	16.7
20	1342	10.2	277	16.5	1382	16.1
21	1432	10.3	277	16.0	1482	15.8
22	1532	10.4	277	15.6	1581	15.3
23	1631	10.4	277	15.1	1681	14.8
24	1731	10.4	277	14.4	1781	14.0

AUGUST 1, 1981
 0900 RDT
 SPRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 3

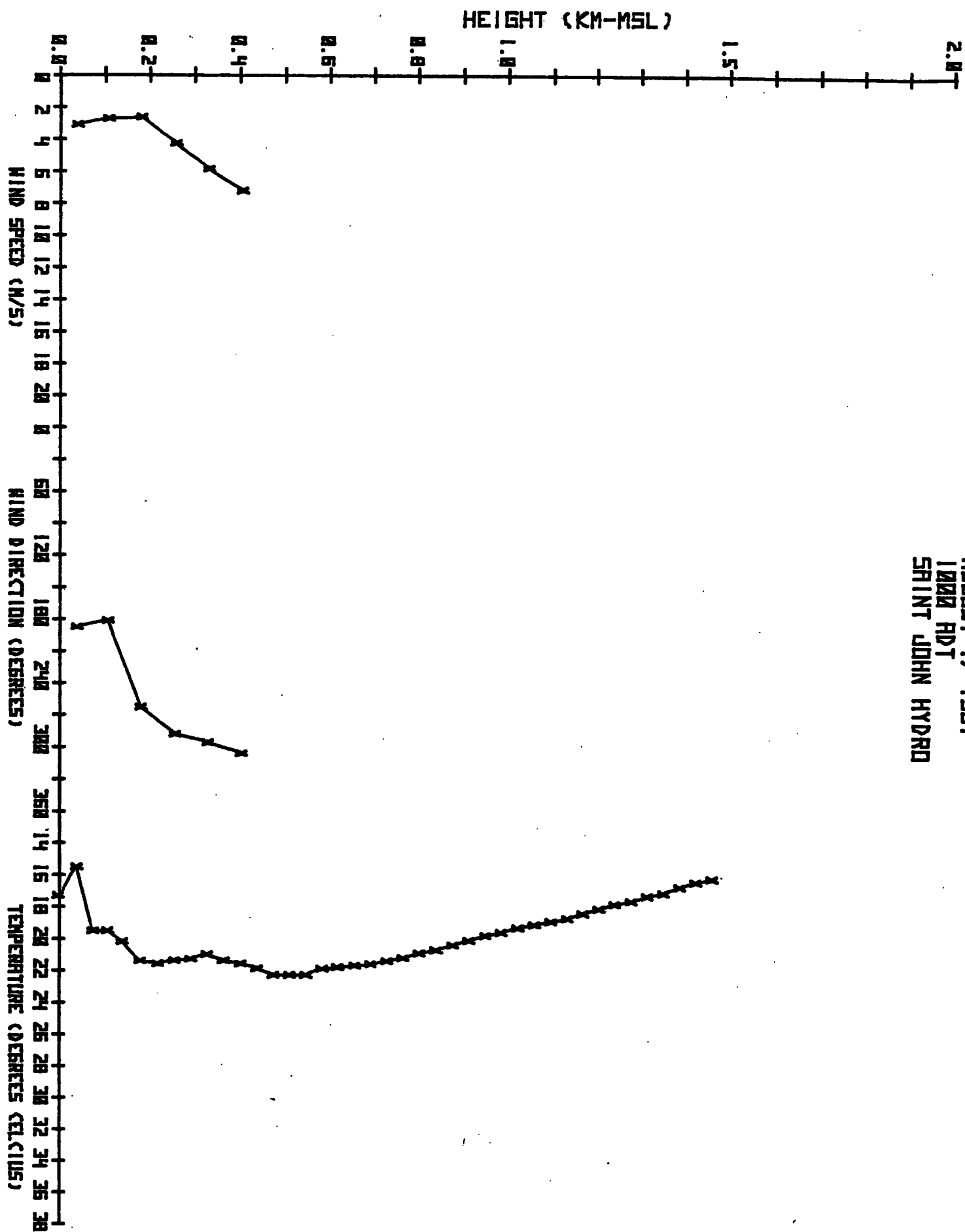
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 46

DATE AUGUST 1, 1981 TIME 1000 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	4			17.4	SURFACE CONDITIONS	
1	40	3.1	187	15.5	77	19.5
2	109	2.7	181	19.5	142	20.2
3	183	2.6	263	21.4	223	21.6
4	260	4.2	288	21.4	297	21.3
5	333	5.8	296	21.0	370	21.4
6	407	7.2	306	21.6	443	21.9
7	480			22.3	517	22.3
8	553			22.3	590	21.9
9	626			21.8	663	21.7
10	700			21.6	736	21.4
11	773			21.2	809	20.9
12	846			20.7	883	20.4
13	919			20.1	956	19.8
14	992			19.6	1029	19.3
15	1066			19.1	1102	18.9
16	1139			18.7	1176	18.4
17	1212			18.1	1249	17.8
18	1285			17.6	1322	17.3
19	1359			17.1	1395	16.7
20	1432			16.4	1468	16.2

AUGUST 1, 1981
1000 ADT
SRIINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 4

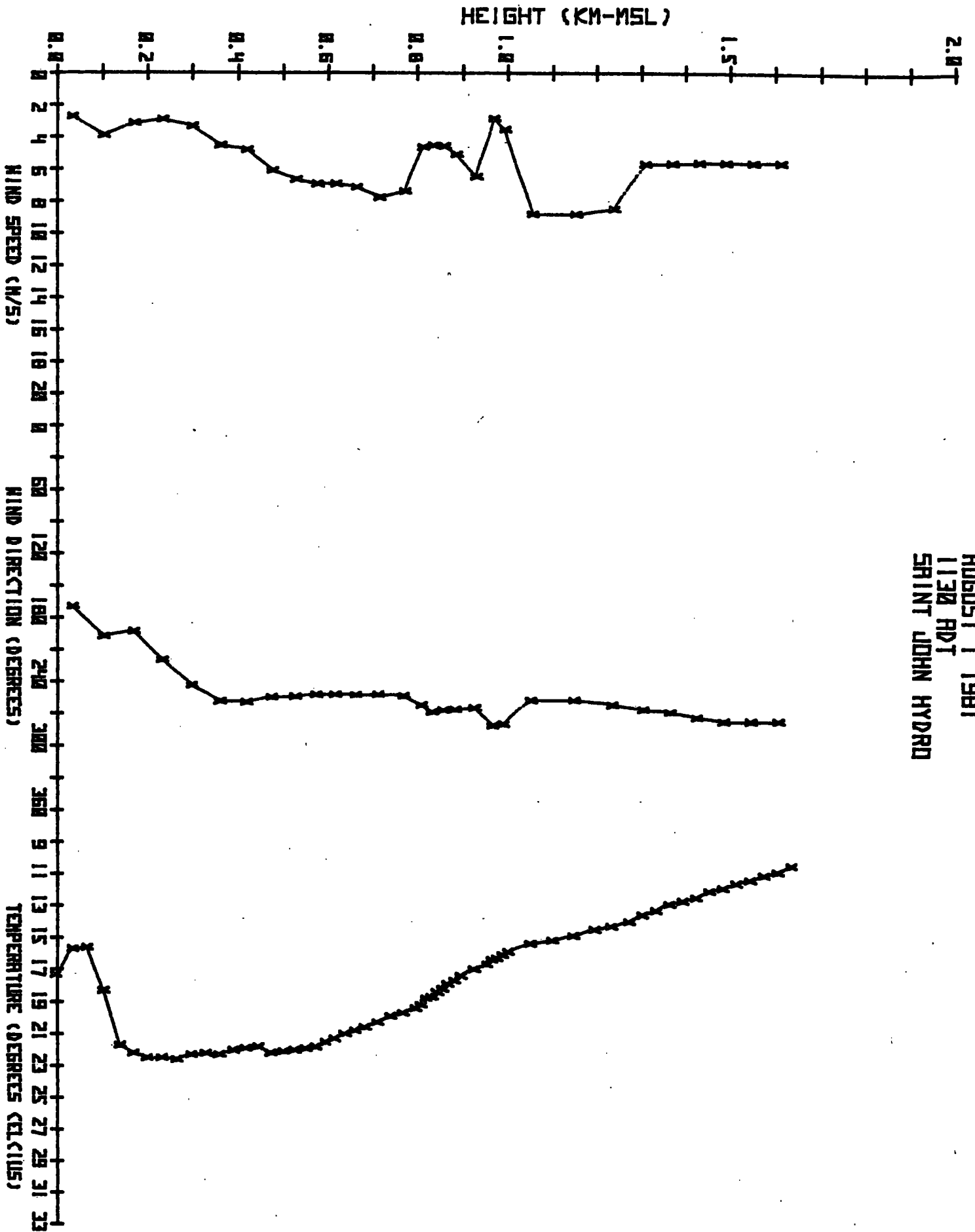
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 47

DATE AUGUST 1 1981 TIME 1130 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
					SURFACE CONDITIONS	
0	3			17.4		
1	35	2.7	170	15.7	68	15.6
2	105	3.9	197	18.3	142	21.7
3	172	3.1	193	22.2	202	22.5
4	236	2.9	220	22.5	270	22.6
5	302	3.3	244	22.3	334	22.2
6	364	4.5	259	22.3	394	22.0
7	422	4.8	259	21.9	450	21.8
8	478	6.1	255	22.2	506	22.1
9	531	6.7	254	22.0	556	21.9
10	578	6.9	252	21.8	600	21.5
11	622	6.9	252	21.3	644	21.0
12	666	7.1	253	20.8	688	20.6
13	717	7.8	252	20.3	746	19.9
14	774	7.4	254	19.7	802	19.4
15	814	4.6	262	19.2	826	18.8
16	837	4.5	269	18.7	849	18.4
17	860	4.6	267	18.2	872	17.9
18	887	5.1	266	17.7	901	17.4
19	931	6.5	265	17.0	960	16.7
20	972	2.8	281	16.4	983	16.3
21	996	3.5	280	16.1	1009	15.9
22	1057	8.8	257	15.4	1106	15.2
23	1154	8.8	257	14.9	1203	14.5
24	1242	8.5	262	14.3	1281	14.0
25	1311	5.7	266	13.6	1341	13.3
26	1372	5.6	269	12.9	1402	12.7
27	1432	5.6	274	12.5	1463	12.1
28	1493	5.6	277	11.9	1523	11.6
29	1553	5.6	277	11.4	1584	11.1
30	1614	5.6	277	10.9	1644	10.5

AUGUST 1 1981
1130 PDT
SRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 7

STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 50

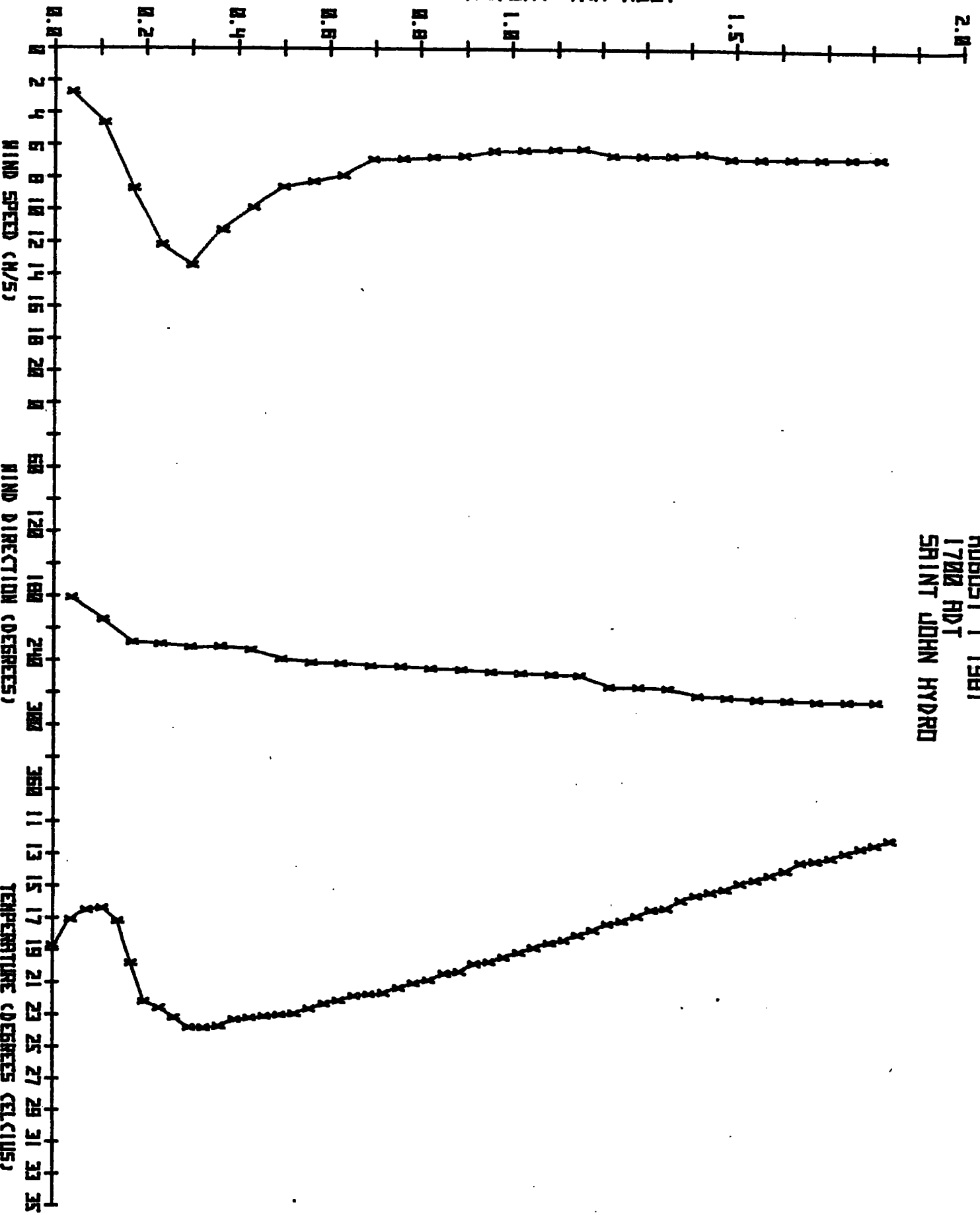
DATE AUGUST 1 1981 TIME 1700 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
					SURFACE CONDITIONS	
0	6			18.8		
1	41	2.7	181	17.1	76	16.5
2	110	4.6	202	16.4	145	17.2
3	174	8.7	223	19.8	204	22.2
4	237	12.2	225	22.6	270	23.2
5	303	13.4	228	23.8	336	23.8
6	369	11.3	227	23.7	402	23.3
7	435	9.9	230	23.2	467	23.1
8	500	8.6	239	23.0	533	22.9
9	566	8.2	242	22.6	599	22.3
10	632	7.9	243	22.1	665	21.8
11	698	6.9	245	21.7	731	21.6
12	764	6.8	245	21.3	797	21.0
13	830	6.7	247	20.8	863	20.4
14	896	6.7	248	20.3	929	19.8
15	962	6.3	250	19.7	995	19.4
16	1028	6.3	251	19.1	1061	18.8
17	1094	6.2	252	18.5	1127	18.3
18	1160	6.2	253	18.0	1193	17.7
19	1226	6.6	263	17.3	1259	17.1
20	1292	6.6	263	16.8	1325	16.4
21	1358	6.6	265	16.3	1391	15.8
22	1424	6.4	272	15.5	1457	15.3
23	1490	6.7	273	15.1	1523	14.7
24	1556	6.7	274	14.5	1589	14.2
25	1622	6.7	275	13.9	1655	13.4
26	1688	6.7	276	13.3	1721	13.1
27	1754	6.7	276	12.8	1787	12.5
28	1820	6.7	276	12.3	1853	12.0
29	1886	6.7	276	11.7	1919	11.5
30	1952	6.7	276	10.9	1985	10.8

AUGUST 1 1981
1700 ADT
SRINT JOHN HYDRD

HEIGHT (KM-MSL)



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 8

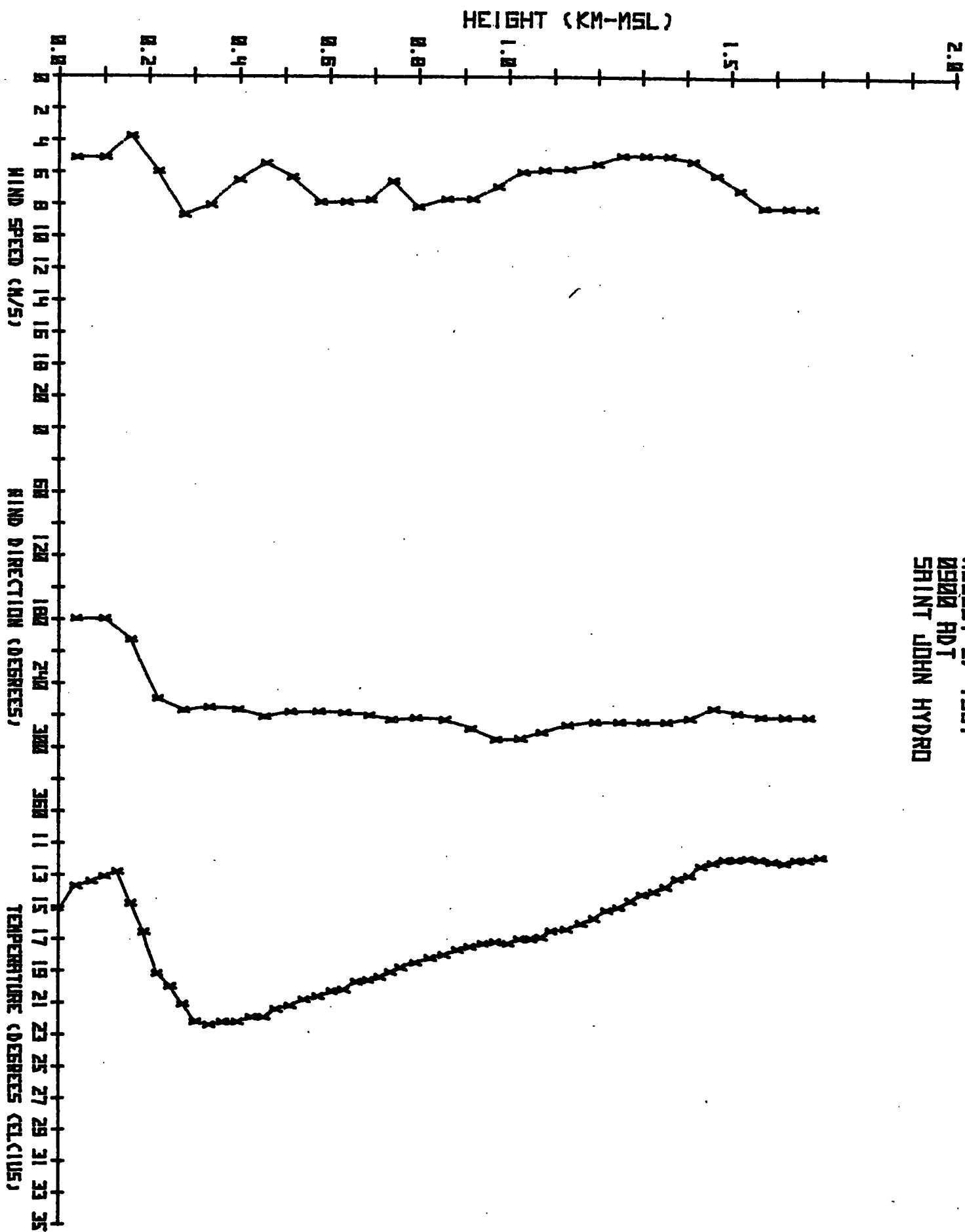
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 51

DATE AUGUST 2, 1981 TIME 0900 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
					SURFACE CONDITIONS	
0	4			15.2		
1	39	5.1	179	13.7	75	13.4
2	104	5.1	179	13.1	133	12.8
3	162	3.7	199	14.8	192	16.6
4	222	5.9	255	19.2	252	20.0
5	280	8.6	265	21.1	308	22.2
6	339	8.0	262	22.4	369	22.2
7	401	6.5	265	22.2	432	21.9
8	460	5.4	272	21.9	487	21.4
9	518	6.3	267	21.2	550	20.8
10	581	7.9	267	20.6	613	20.3
11	640	7.8	268	20.2	667	19.7
12	694	7.7	270	19.6	721	19.4
13	744	6.6	274	19.1	767	18.8
14	800	8.2	272	18.5	833	18.2
15	862	7.7	274	18.0	892	17.7
16	921	7.7	282	17.5	950	17.3
17	978	6.9	292	17.2	1007	17.3
18	1032	6.0	292	17.0	1057	17.0
19	1079	5.8	286	16.9	1101	16.5
20	1136	5.8	279	16.4	1170	16.0
21	1200	5.5	276	15.7	1229	15.2
22	1256	4.9	276	15.0	1282	14.6
23	1309	4.9	276	14.2	1336	14.0
24	1362	4.9	276	13.7	1389	13.2
25	1415	5.3	273	13.0	1442	12.4
26	1469	6.1	263	12.2	1495	12.0
27	1522	7.1	268	12.0	1549	11.9
28	1575	8.1	271	12.0	1602	12.1
29	1628	8.1	271	12.2	1655	12.0
30	1682	8.1	271	12.0	1708	11.8

AUGUST 2, 1981
0900 PDT
SAINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 9

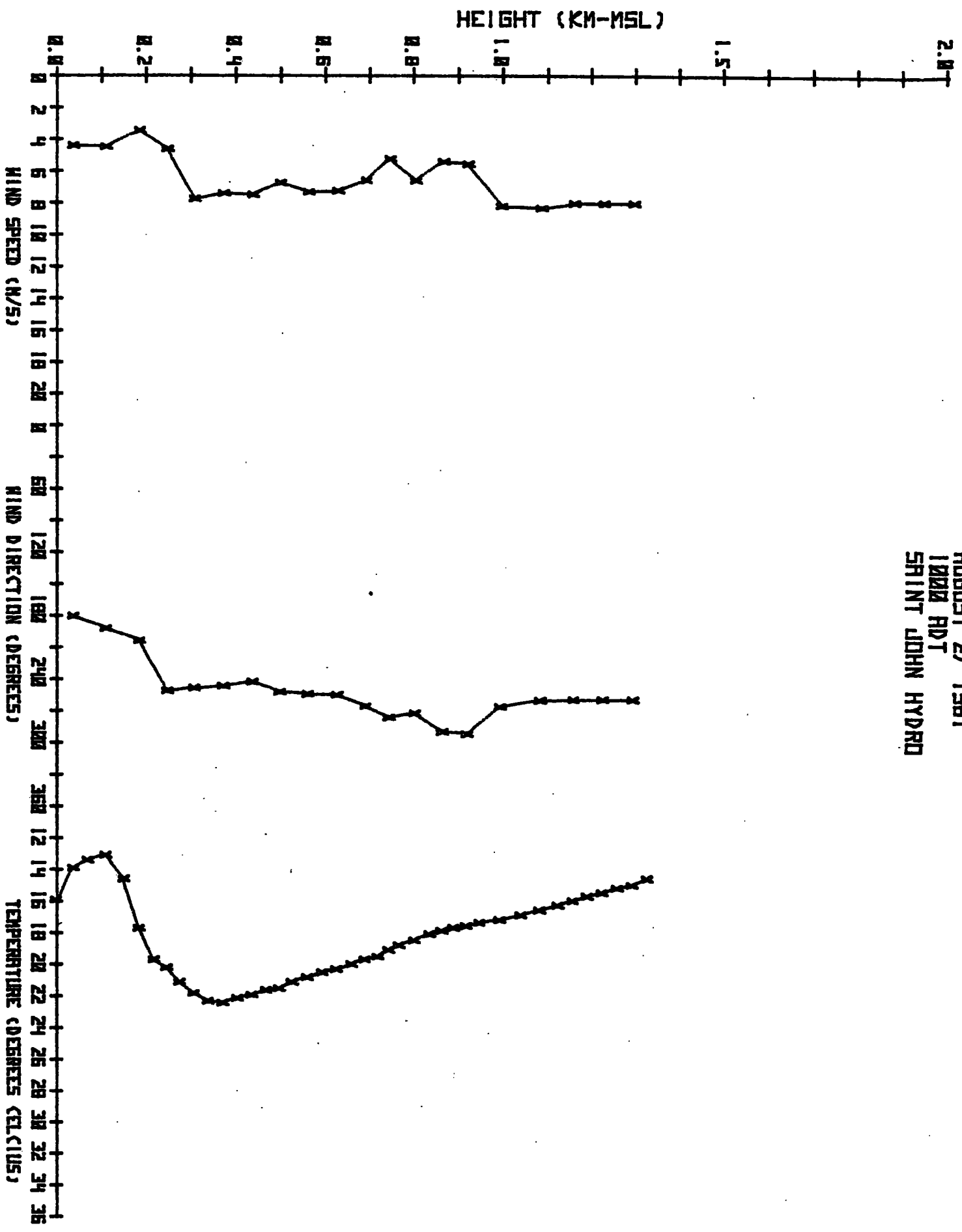
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 52

DATE AUGUST 2, 1981 TIME 1000 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	4			16.0	SURFACE CONDITIONS	
1	38	4.4	181	13.9	71	13.4
2	112	4.5	192	13.1	153	14.6
3	187	3.5	204	17.7	221	19.7
4	250	4.6	251	20.2	279	21.1
5	311	7.8	248	21.8	343	22.3
6	376	7.4	247	22.4	408	22.1
7	440	7.5	243	21.9	472	21.6
8	501	6.7	253	21.5	531	21.1
9	565	7.3	255	20.8	599	20.5
10	632	7.2	255	20.3	665	20.0
11	695	6.6	266	19.7	725	19.5
12	749	5.3	277	19.1	773	18.8
13	807	6.6	273	18.5	842	18.1
14	868	5.4	290	17.9	895	17.7
15	924	5.6	292	17.6	953	17.4
16	1000	8.2	266	17.2	1047	16.9
17	1088	8.3	260	16.6	1129	16.3
18	1163	8.0	260	16.0	1197	15.7
19	1231	8.0	260	15.5	1265	15.2
20	1300	8.0	260	15.0	1334	14.6

AUGUST 2, 1981
1000 PDT
SPRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 12

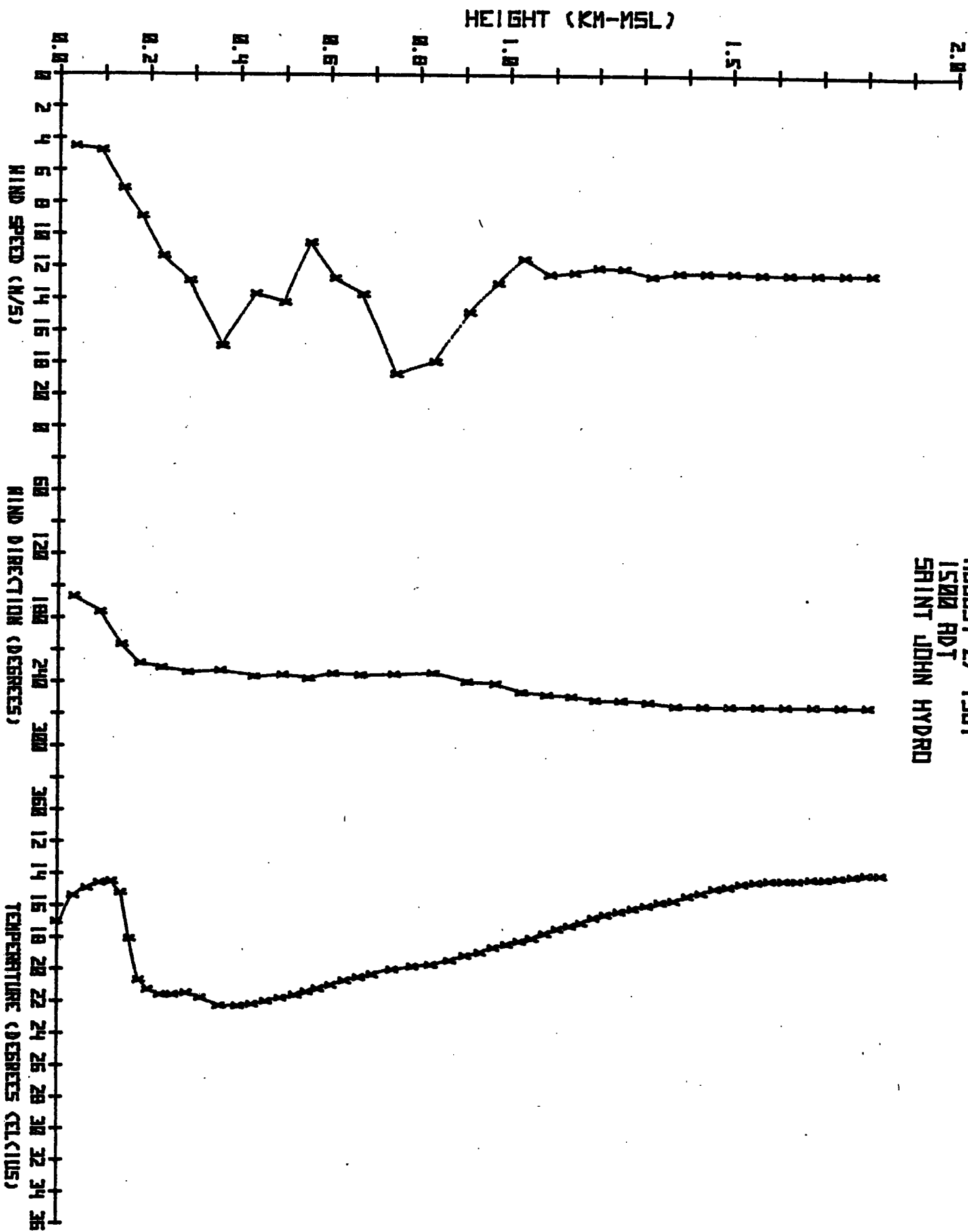
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 55

DATE AUGUST 2, 1981 TIME 1500 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	5			17.1	SURFACE CONDITIONS	
1	36	4.5	160	15.4	67	14.9
2	95	4.8	175	14.6	123	14.5
3	143	7.1	205	15.2	163	18.1
4	184	8.9	223	20.7	205	21.3
5	233	11.4	227	21.6	261	21.6
6	292	12.9	231	21.5	323	21.8
7	364	16.9	229	22.3	405	22.3
8	437	13.7	235	22.2	468	22.0
9	501	14.3	233	21.8	533	21.6
10	559	10.5	237	21.4	584	21.2
11	614	12.7	232	21.0	644	20.7
12	675	13.7	233	20.5	706	20.3
13	751	18.7	232	20.0	797	19.8
14	838	17.9	231	19.7	878	19.4
15	913	14.8	239	19.1	947	18.9
16	977	13.0	241	18.6	1007	18.4
17	1034	11.5	249	18.2	1062	18.0
18	1090	12.4	251	17.7	1118	17.4
19	1145	12.3	253	17.2	1173	17.0
20	1201	12.0	256	16.7	1229	16.5
21	1259	12.1	256	16.3	1290	16.1
22	1321	12.5	258	15.9	1352	15.7
23	1382	12.3	261	15.6	1413	15.3
24	1444	12.3	261	15.1	1475	14.8
25	1505	12.3	261	14.7	1536	14.5
26	1567	12.4	261	14.4	1598	14.3
27	1628	12.4	261	14.3	1659	14.3
28	1690	12.4	261	14.2	1721	14.2
29	1751	12.4	261	14.1	1782	14.0
30	1813	12.4	261	13.9	1844	13.9

AUGUST 2, 1981
1500 RDT
SRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 13

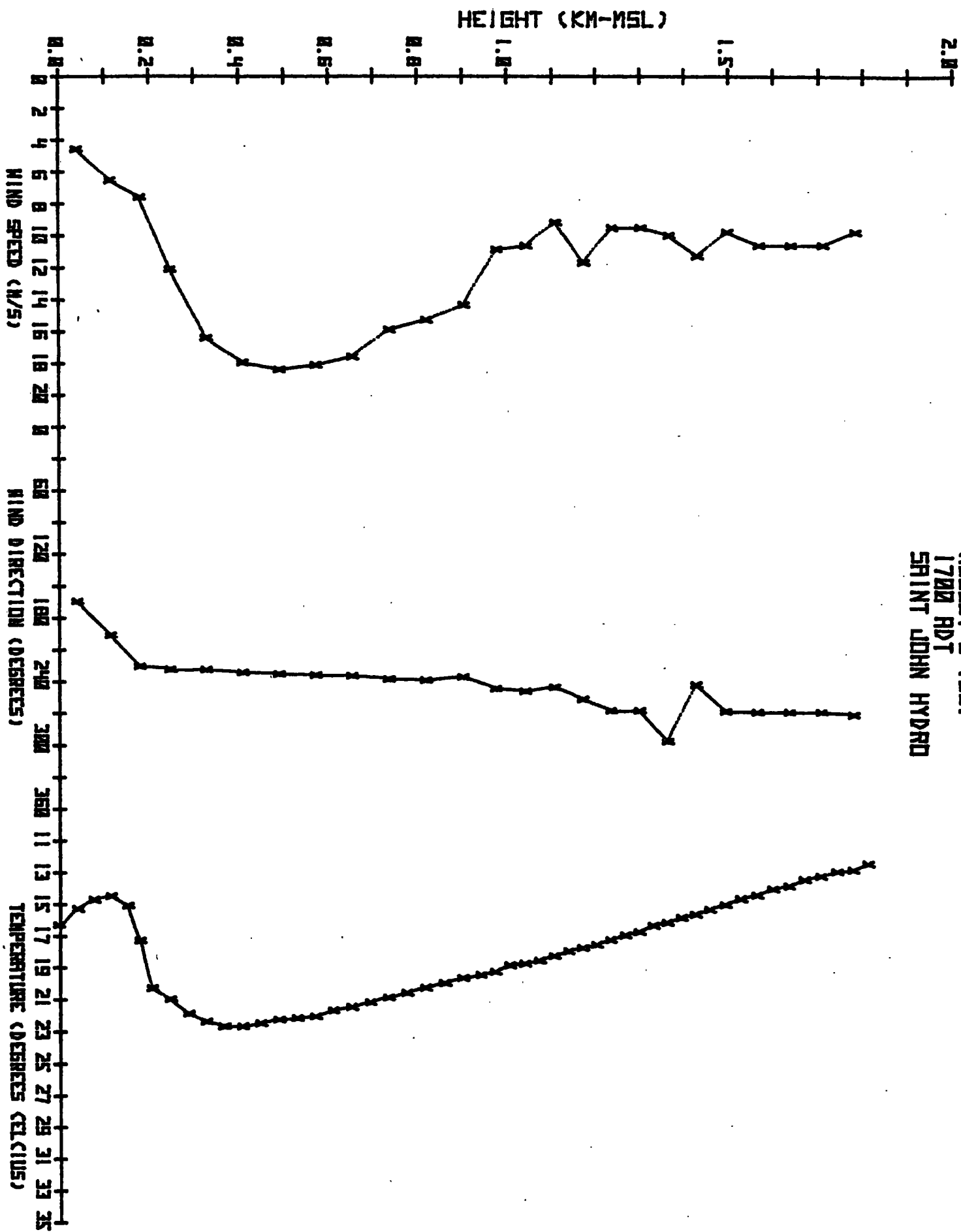
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 56

DATE AUGUST 2 1981 TIME 1700 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	4			16.4	SURFACE CONDITIONS	
1	41	4.6	164	15.3	78	14.7
2	116	6.5	196	14.5	154	15.1
3	182	7.6	226	17.3	209	20.3
4	251	12.1	229	21.0	292	21.9
5	331	16.4	229	22.4	371	22.7
6	412	17.9	232	22.7	453	22.5
7	494	18.4	233	22.3	535	22.2
8	576	18.1	234	22.1	617	21.7
9	658	17.6	235	21.5	700	21.2
10	741	15.9	238	20.9	783	20.6
11	824	15.3	239	20.3	865	20.0
12	907	14.3	236	19.7	948	19.5
13	981	10.9	247	19.3	1013	18.9
14	1046	10.6	250	18.8	1079	18.6
15	1111	9.2	246	18.3	1144	18.0
16	1177	11.7	257	17.8	1210	17.6
17	1242	9.5	268	17.3	1274	17.0
18	1306	9.5	268	16.8	1338	16.4
19	1370	10.0	297	16.2	1402	15.9
20	1434	11.3	243	15.7	1466	15.4
21	1501	9.8	269	15.1	1537	14.7
22	1572	10.6	270	14.5	1608	14.1
23	1643	10.6	270	13.9	1679	13.5
24	1714	10.6	270	13.3	1750	13.0
25	1785	9.8	272	12.9	1820	12.5
26	1856	9.5	282	12.3	1891	12.0
27	1927	8.8	282	11.7	1962	11.6
28	1998	8.8	278	11.4	2033	11.5
29	2069	8.8	278	11.5	2104	11.5
30	2140	8.8	276	11.8	2175	11.9

AUGUST 2 1981
1700Z RDT
SPRINT JOHN HYDRD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 15

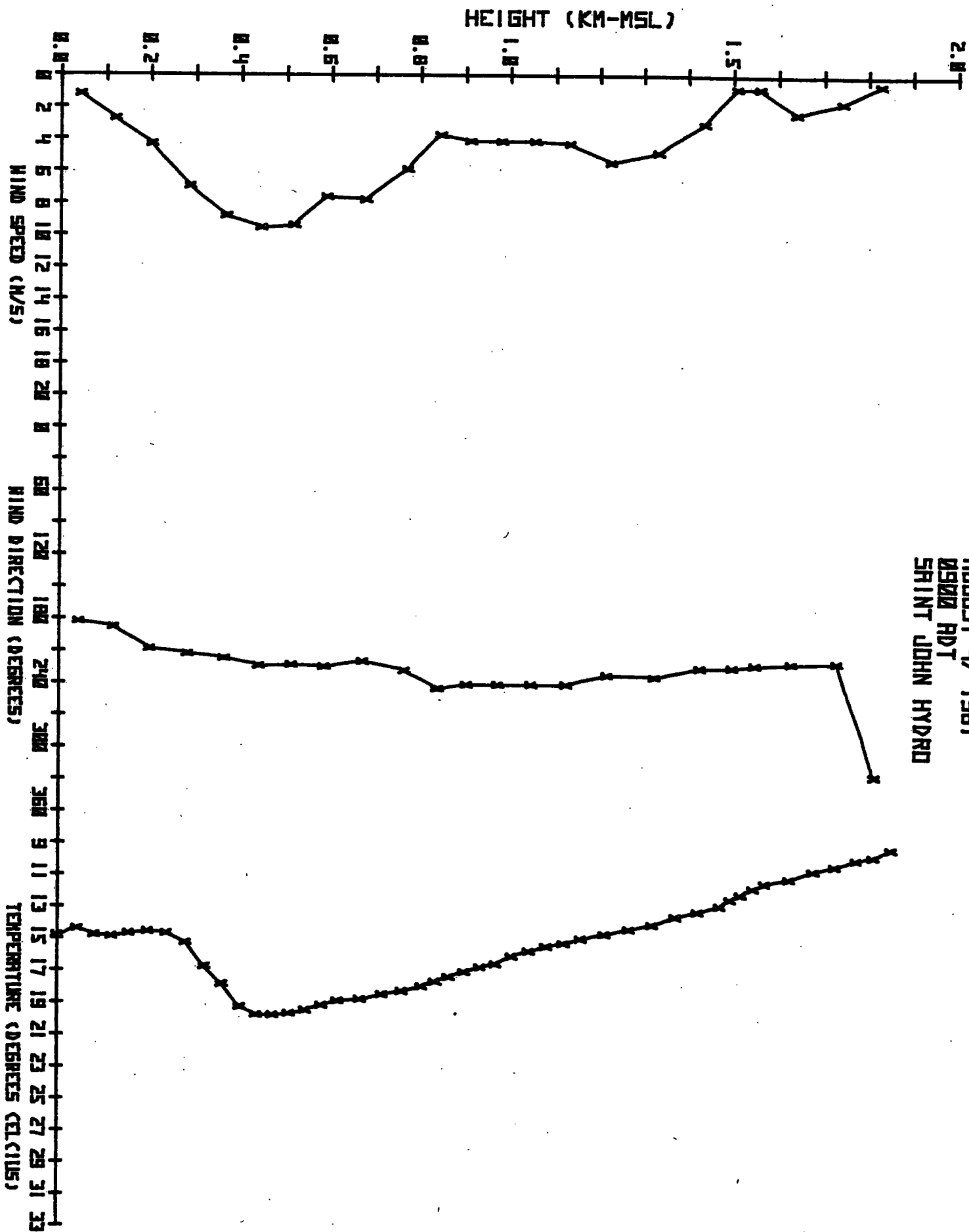
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 58

DATE AUGUST 4, 1981 TIME 0900 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	4			14.9	SURFACE CONDITIONS	
1	43	1.2	183	14.4	83	14.8
2	121	2.8	188	14.9	160	14.7
3	203	4.3	208	14.6	245	14.7
4	288	6.9	213	15.3	330	16.8
5	369	8.8	217	17.9	408	19.3
6	445	9.6	224	19.8	482	19.8
7	518	9.4	223	19.7	555	19.5
8	592	7.6	225	19.2	629	18.9
9	678	7.8	220	18.8	728	18.5
10	772	5.9	229	18.3	817	18.0
11	846	3.8	245	17.7	876	17.4
12	911	4.2	242	17.1	946	16.8
13	982	4.2	242	16.6	1017	16.1
14	1055	4.2	242	15.8	1093	15.5
15	1132	4.3	242	15.3	1172	15.0
16	1226	5.5	232	14.7	1281	14.4
17	1334	4.8	234	14.1	1386	13.6
18	1436	3.0	226	13.3	1485	12.9
19	1509	0.8	225	12.5	1533	12.2
20	1560	0.8	223	11.8	1586	11.5
21	1640	2.3	221	11.2	1694	10.7
22	1741	1.6	220	10.4	1788	10.0
23	1828	0.5	326	9.8	1867	9.3
24	1906	0.7	335	9.0	1946	8.8
25	1985	0.7	338	8.5	2024	8.2
26	2064	1.6	354	8.0	2103	7.9
27	2142	1.6	344	7.6	2182	7.3
28	2221	1.9	329	7.1	2261	7.6
29	2300	2.1	321	8.0	2339	8.3
30	2379	3.4	303	8.6	2418	8.5

AUGUST 4, 1981
0900 PDT
SPRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 16

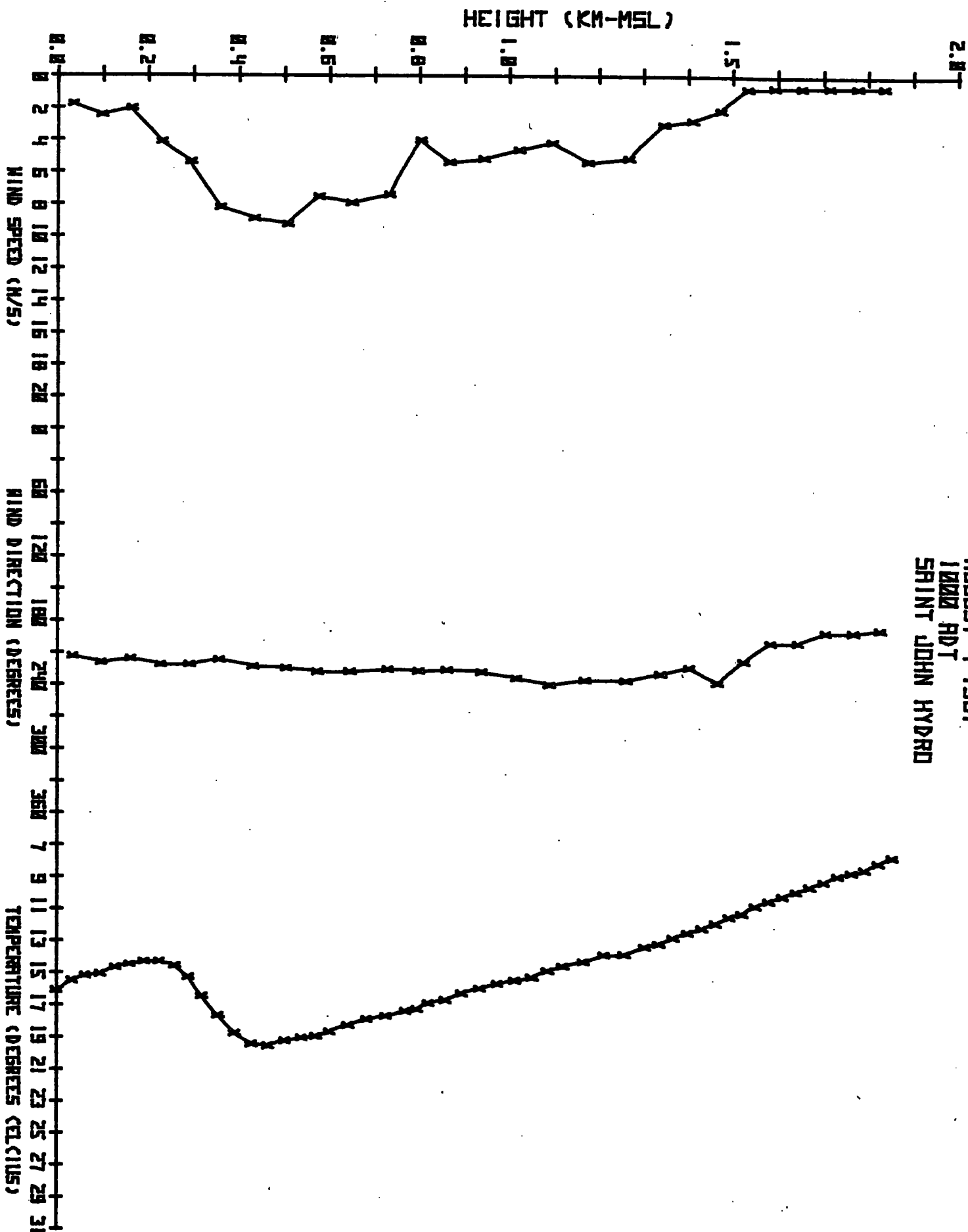
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 59

DATE AUGUST 4 1981 TIME 1000 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	5			16.2	SURFACE CONDITIONS	
1	34	1.8	214	15.5	64	15.2
2	98	2.5	220	15.1	132	14.7
3	164	2.1	216	14.5	196	14.3
4	231	4.1	222	14.3	266	14.6
5	296	5.4	222	15.3	326	16.5
6	362	8.2	217	17.7	398	18.8
7	435	8.9	224	19.5	471	19.6
8	509	9.3	225	19.3	547	19.1
9	578	7.6	228	19.0	609	18.7
10	651	8.0	228	18.3	692	17.9
11	735	7.4	226	17.7	779	17.4
12	804	4.0	228	17.3	830	16.9
13	867	5.4	226	16.7	903	16.3
14	944	5.2	228	16.0	984	15.7
15	1022	4.6	234	15.5	1061	15.3
16	1095	4.2	240	14.9	1128	14.6
17	1176	5.4	236	14.3	1223	13.9
18	1269	5.1	236	13.9	1314	13.4
19	1346	3.0	230	13.2	1379	12.8
20	1411	2.8	224	12.5	1443	12.2
21	1474	2.1	238	11.9	1505	11.5
22	1534	0.8	218	11.3	1563	10.8
23	1593	0.7	200	10.5	1622	10.2
24	1653	0.7	200	9.9	1683	9.6
25	1714	0.7	191	9.3	1744	8.9
26	1775	0.7	191	8.7	1805	8.5
27	1836	0.7	188	8.1	1866	7.7
28	1897	0.7	188	7.4	1927	7.6

AUGUST 4 1981
1000 PDT
SRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 17

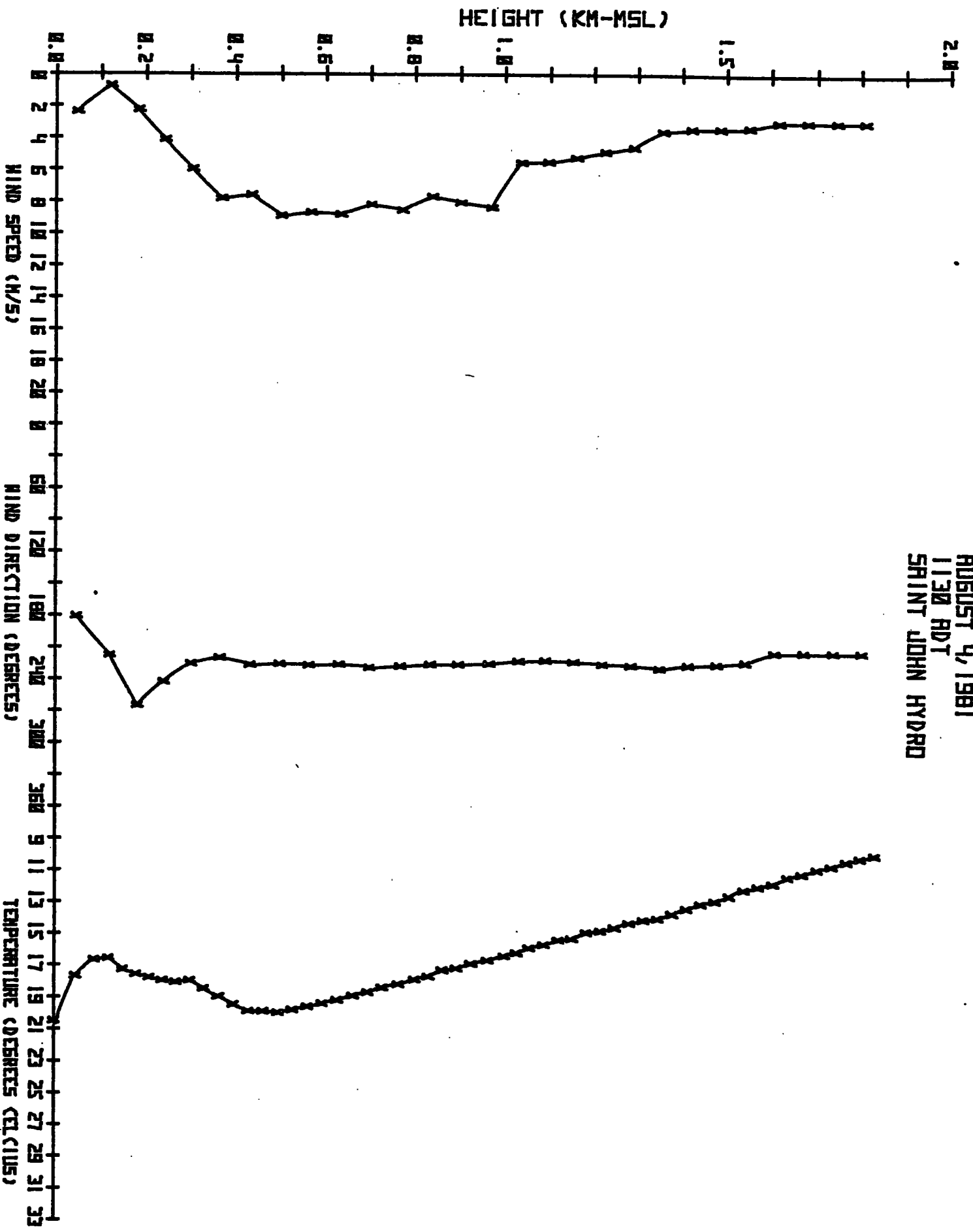
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 60

DATE AUGUST 4,1981 TIME 1130 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	5			20.6	SURFACE CONDITIONS	
1	47	2.4	181	17.7	90	16.7
2	122	0.7	218	16.6	155	17.3
3	185	2.3	265	17.6	214	17.8
4	244	4.1	243	18.0	274	18.1
5	306	6.0	226	18.0	338	18.5
6	370	7.8	220	19.0	403	19.5
7	436	7.6	227	19.9	469	19.9
8	502	8.9	226	20.0	535	19.8
9	568	8.7	227	19.6	602	19.4
10	636	8.8	226	19.2	671	18.9
11	704	8.2	229	18.7	736	18.4
12	773	8.5	228	18.2	810	17.9
13	840	7.7	226	17.7	870	17.3
14	902	8.1	226	17.2	935	16.9
15	972	8.4	225	16.7	1010	16.4
16	1037	5.5	223	16.2	1065	15.9
17	1097	5.5	222	15.7	1130	15.4
18	1162	5.2	223	15.3	1194	14.9
19	1227	4.9	226	14.8	1259	14.6
20	1292	4.6	227	14.3	1324	14.1
21	1357	3.6	229	14.0	1389	13.7
22	1421	3.4	227	13.4	1454	13.1
23	1486	3.4	226	12.9	1519	12.6
24	1551	3.3	224	12.2	1583	12.0
25	1616	3.0	214	11.8	1648	11.4
26	1681	3.0	214	11.2	1713	10.9
27	1745	3.0	214	10.7	1778	10.4
28	1810	3.0	214	10.2	1843	10.0
29	1875			9.7	1908	9.4
30	1941			9.3	1974	9.0

AUGUST 4, 1981
1130 PDT
SAINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 18

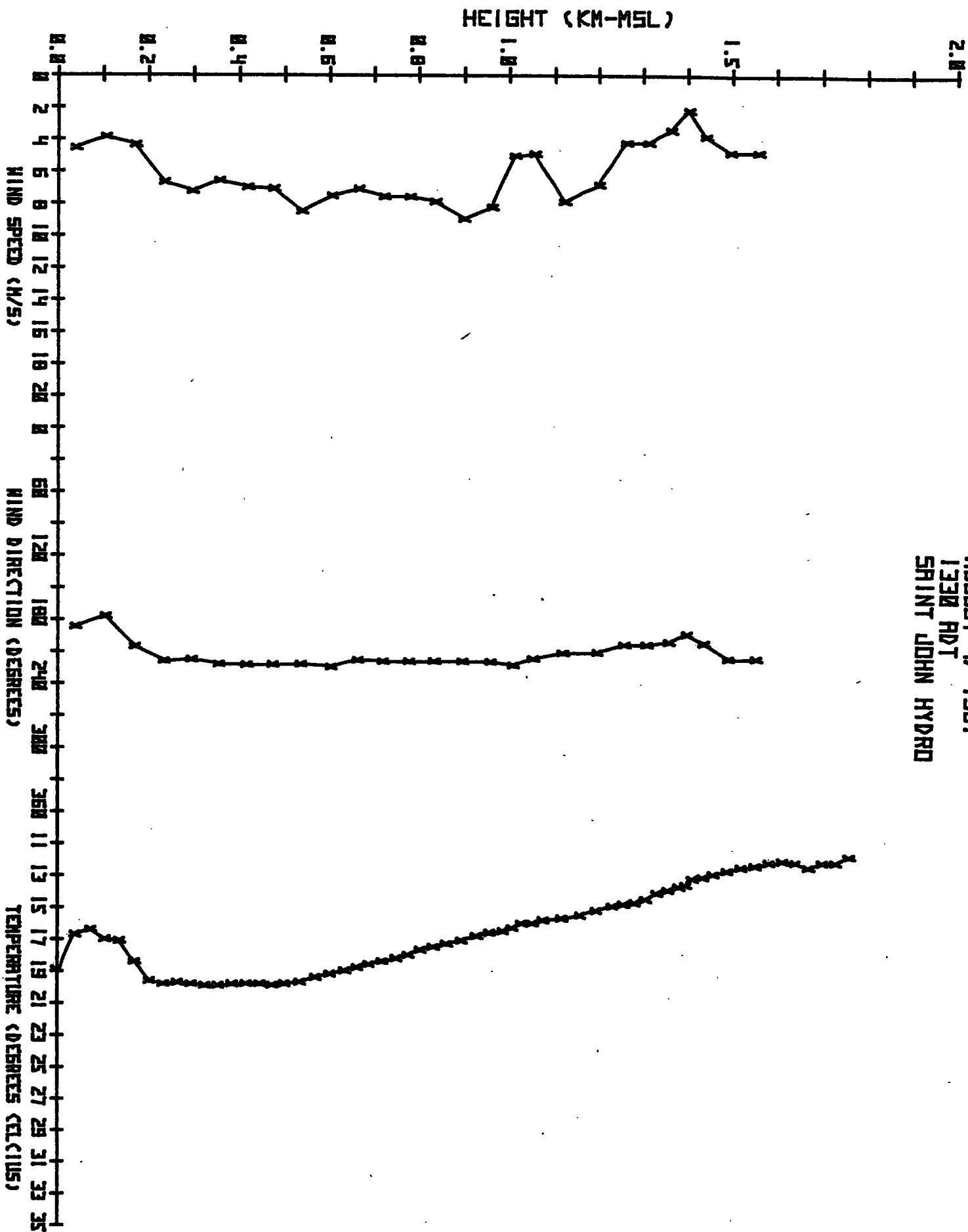
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 61

DATE AUGUST 4, 1981 TIME 1330 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	5			19.0	SURFACE CONDITIONS	
1	40	4.6	187	16.7	75	16.4
2	107	3.9	177	17.0	139	17.1
3	172	4.4	205	18.4	206	19.6
4	237	6.7	219	19.8	268	19.7
5	299	7.2	217	19.8	330	19.9
6	359	6.6	222	19.9	388	19.8
7	419	7.0	223	19.8	450	19.8
8	478	7.1	222	19.9	506	19.8
9	540	8.5	222	19.7	575	19.4
10	608	7.6	225	19.2	641	19.0
11	668	7.1	218	18.8	694	18.6
12	725	7.6	219	18.4	757	18.2
13	783	7.6	219	18.0	810	17.7
14	839	7.9	219	17.5	867	17.3
15	900	9.0	219	17.1	934	16.8
16	964	8.2	220	16.6	994	16.5
17	1014	5.0	223	16.3	1035	16.0
18	1058	4.9	217	16.0	1081	15.8
19	1123	7.9	211	15.7	1165	15.5
20	1202	6.8	211	15.2	1239	14.9
21	1264	4.2	203	14.8	1289	14.7
22	1314	4.2	203	14.5	1339	14.1
23	1364	3.4	201	13.9	1389	13.7
24	1404	2.2	194	13.6	1419	13.2
25	1442	3.8	202	13.1	1466	12.9
26	1497	4.8	217	12.7	1528	12.5
27	1560	4.8	217	12.4	1591	12.2
28	1620			12.1	1650	12.2
29	1679			12.5	1709	12.2
30	1738			12.2	1767	11.8

AUGUST 4, 1981
1330 PDT
SRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 19

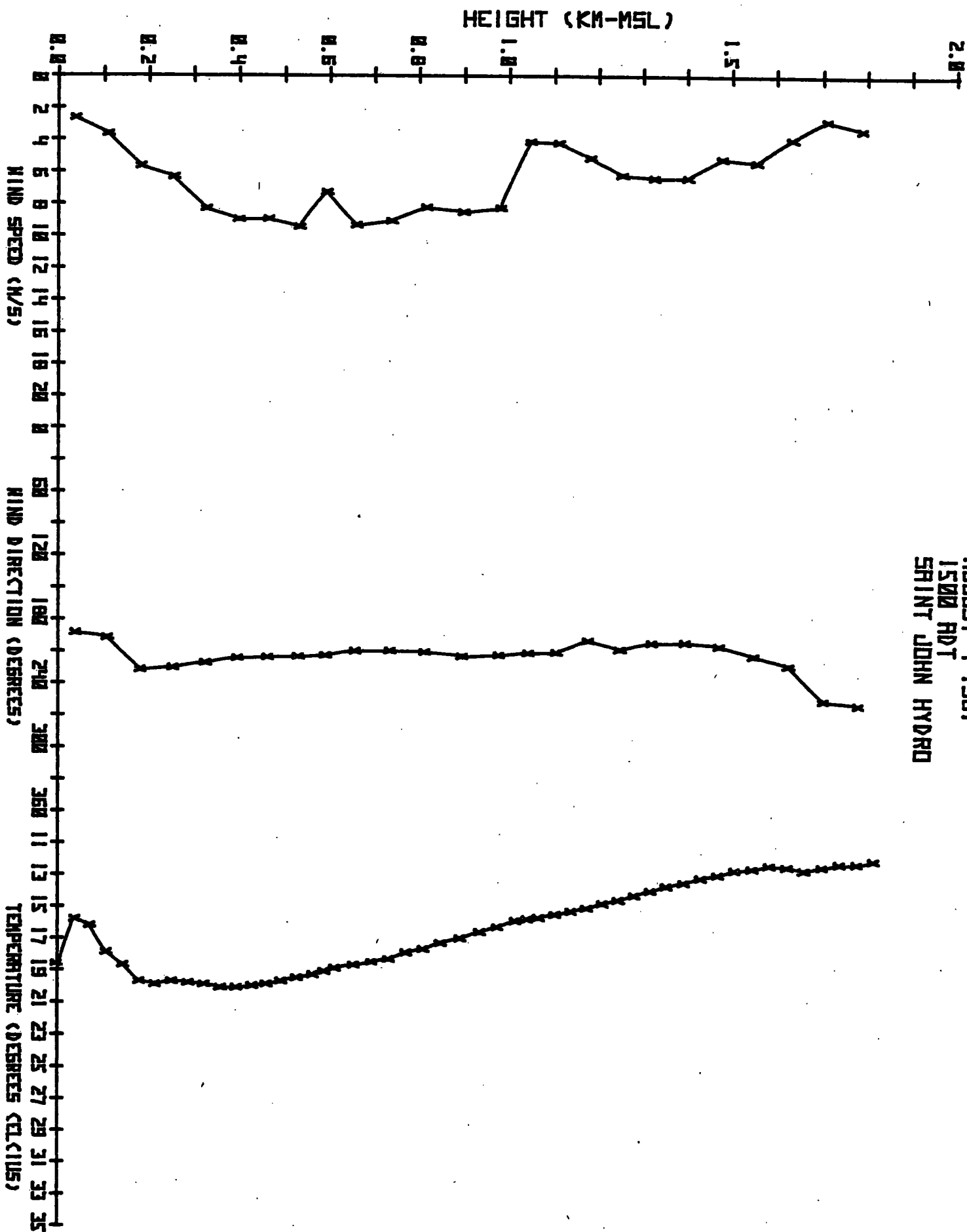
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 62

DATE AUGUST 4 1981 TIME 1500 ADT

BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	4			18.7	SURFACE CONDITIONS	
1	38	2.7	193	15.8	73	16.2
2	110	3.7	198	17.9	148	18.7
3	183	5.7	228	19.7	219	19.9
4	256	6.4	226	19.7	294	19.8
5	329	8.3	221	19.9	365	20.1
6	399	9.0	217	20.1	434	20.0
7	466	9.0	216	19.9	498	19.7
8	534	9.5	215	19.5	570	19.3
9	595	7.3	214	19.1	621	18.9
10	661	9.4	210	18.7	701	18.5
11	740	9.1	210	18.3	779	17.9
12	818	8.2	211	17.7	856	17.3
13	899	8.5	215	17.0	943	16.6
14	982	8.3	214	16.3	1022	15.9
15	1048	4.1	212	15.8	1074	15.7
16	1110	4.2	211	15.5	1146	15.3
17	1182	5.1	200	15.1	1218	14.8
18	1255	6.2	208	14.6	1291	14.3
19	1327	6.4	202	14.0	1363	13.7
20	1402	6.4	202	13.5	1440	13.2
21	1479	5.2	205	13.0	1518	12.7
22	1556	5.4	214	12.6	1595	12.4
23	1634	3.9	224	12.5	1672	12.7
24	1711	2.8	256	12.5	1749	12.3
25	1788	3.3	260	12.3	1826	12.1
26	1865	3.2	277	11.9	1904	11.6
27	1942	3.2	277	11.4	1981	11.1
28	2019	3.2	277	10.9	2058	10.5
29	2097	3.2	277	10.2	2135	10.1
30	2174	3.2	277	10.1	2212	9.9

AUGUST 4 1981
1500 PDT
SRINT JOHN HYDRO



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 20

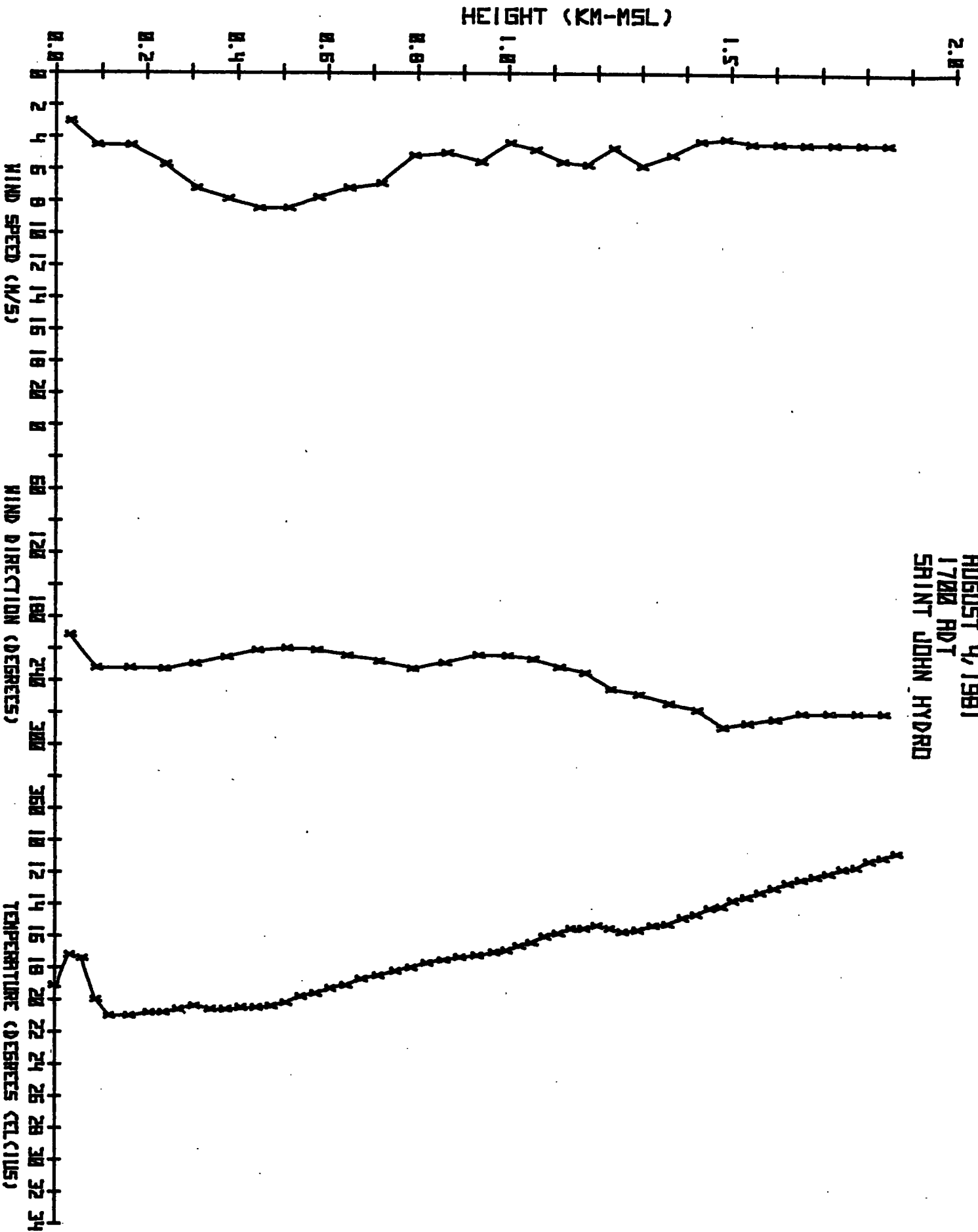
STATION SAINT JOHN HYDRO STATION HEIGHT 3 FLIGHT 63

DATE AUGUST 4,1981 TIME 1700 ADT

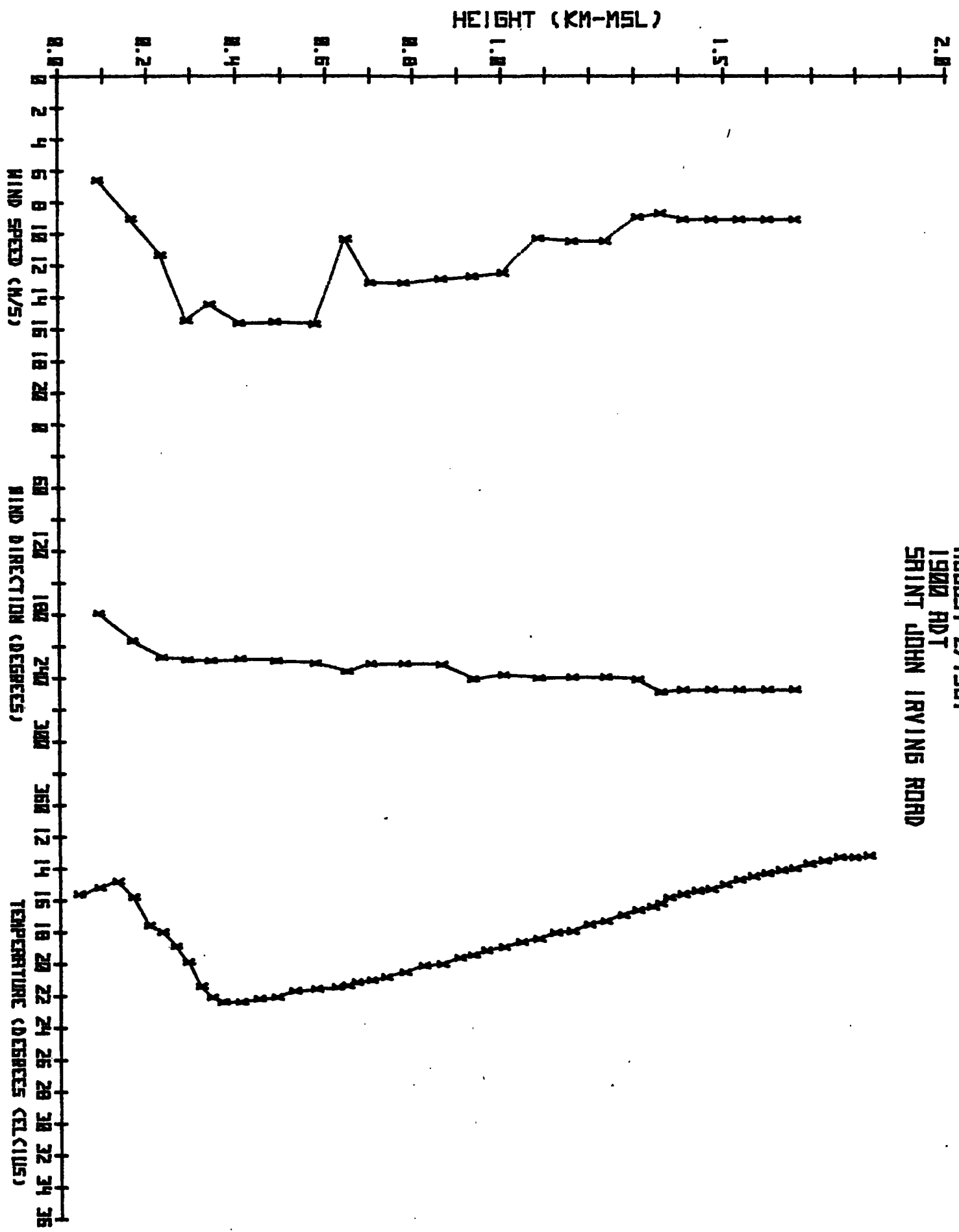
BLINE 274.4 GPA -0.3 BRG 97

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	5			19.2	SURFACE CONDITIONS	
1	33	3.0	197	17.2	62	17.4
2	92	4.5	228	20.0	122	21.0
3	167	4.5	228	21.0	211	20.8
4	244	5.7	229	20.8	277	20.6
5	312	7.2	224	20.4	348	20.6
6	382	7.9	218	20.6	415	20.5
7	448	8.5	212	20.5	482	20.4
8	515	8.5	210	20.2	548	19.8
9	581	7.8	212	19.6	614	19.3
10	648	7.2	216	19.1	683	18.7
11	721	6.9	222	18.5	759	18.2
12	794	5.2	229	18.0	829	17.7
13	866	5.0	223	17.5	902	17.3
14	940	5.6	216	17.2	979	17.0
15	1006	4.4	216	16.9	1034	16.6
16	1062	4.8	220	16.4	1091	16.0
17	1120	5.6	227	15.8	1149	15.5
18	1179	5.7	232	15.5	1209	15.3
19	1238	4.7	247	15.5	1267	15.7
20	1302	5.8	252	15.6	1337	15.3
21	1370	5.1	261	15.2	1403	14.8
22	1433	4.2	267	14.6	1464	14.2
23	1490	4.1	283	14.1	1517	13.7
24	1547	4.4	279	13.5	1577	13.2
25	1607	4.4	275	12.9	1638	12.6
26	1668	4.4	270	12.4	1698	12.2
27	1728	4.4	270	12.0	1759	11.7
28	1789	4.4	270	11.6	1819	11.2
29	1849	4.4	270	11.0	1880	10.7
30	1910	4.4	270	10.5	1940	10.1

AUGUST 4, 1981
1700 RDT
SRINT JOHN HYDRD



AUGUST 2, 1981
 1900 ADT
 SAINT JOHN IRVING ROAD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 14

STATION SAINT JOHN IRVING ROAD STATION HEIGHT 48 FLIGHT 57

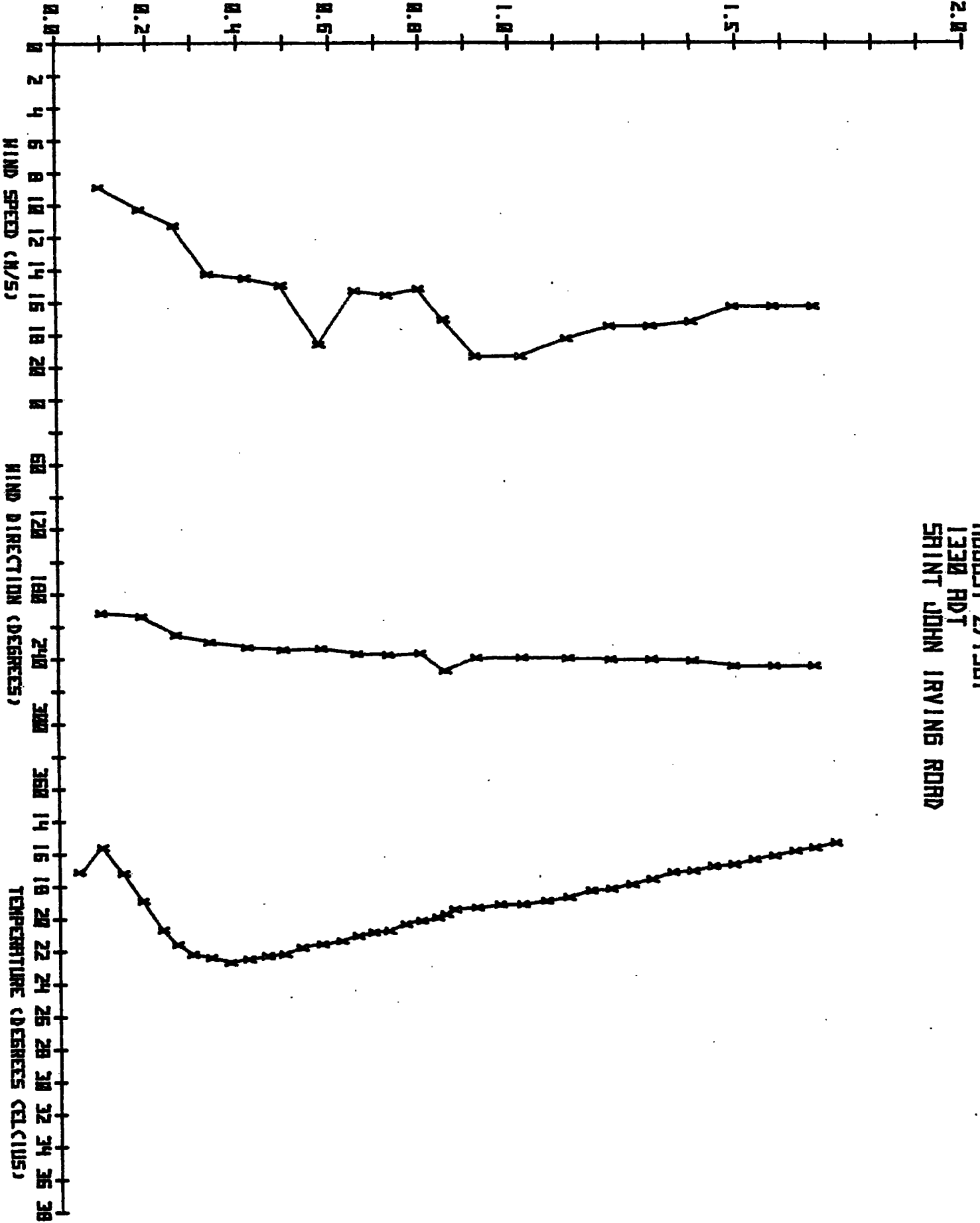
DATE AUGUST 2,1981 TIME 1900 ADT

BLINE 204.4 GPA -4.0 BRG 98

LEVEL	HEIGHT(M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	50			15.7		
1	91	6.6	179	15.2	131	14.8
2	167	9.1	205	15.8	202	17.6
3	233	11.4	221	18.0	264	18.9
4	293	15.5	223	19.9	321	21.4
5	345	14.4	224	22.1	369	22.4
6	409	15.6	223	22.4	449	22.2
7	489	15.5	225	22.1	529	21.7
8	577	15.7	227	21.6	625	21.5
9	647	10.4	235	21.4	669	21.2
10	703	13.1	228	21.1	737	20.9
11	780	13.1	228	20.6	824	20.2
12	864	12.9	229	20.1	904	19.7
13	935	12.7	242	19.5	967	19.2
14	1007	12.5	238	19.0	1048	18.7
15	1086	10.3	241	18.5	1124	18.1
16	1162	10.5	240	18.0	1200	17.6
17	1238	10.5	240	17.4	1276	17.0
18	1310	9.0	243	16.7	1343	16.5
19	1362	8.7	255	16.3	1380	15.9
20	1412	9.1	252	15.7	1443	15.5
21	1475	9.1	252	15.4	1507	15.1
22	1538	9.1	252	14.8	1570	14.6
23	1601	9.1	252	14.4	1633	14.2
24	1665	9.1	252	14.1	1696	13.8
25	1730			13.6	1765	13.4
26	1799			13.4	1833	13.3
27	1868			13.3	1902	13.1
28	1936			13.4	1970	13.7
29	2005			14.0	2039	13.9
30	2073			13.9	2108	13.6

AUGUST 2, 1981
 1330 RDT
 SAINT JOHN IRVING ROAD

HEIGHT (KM-MSL)



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 11

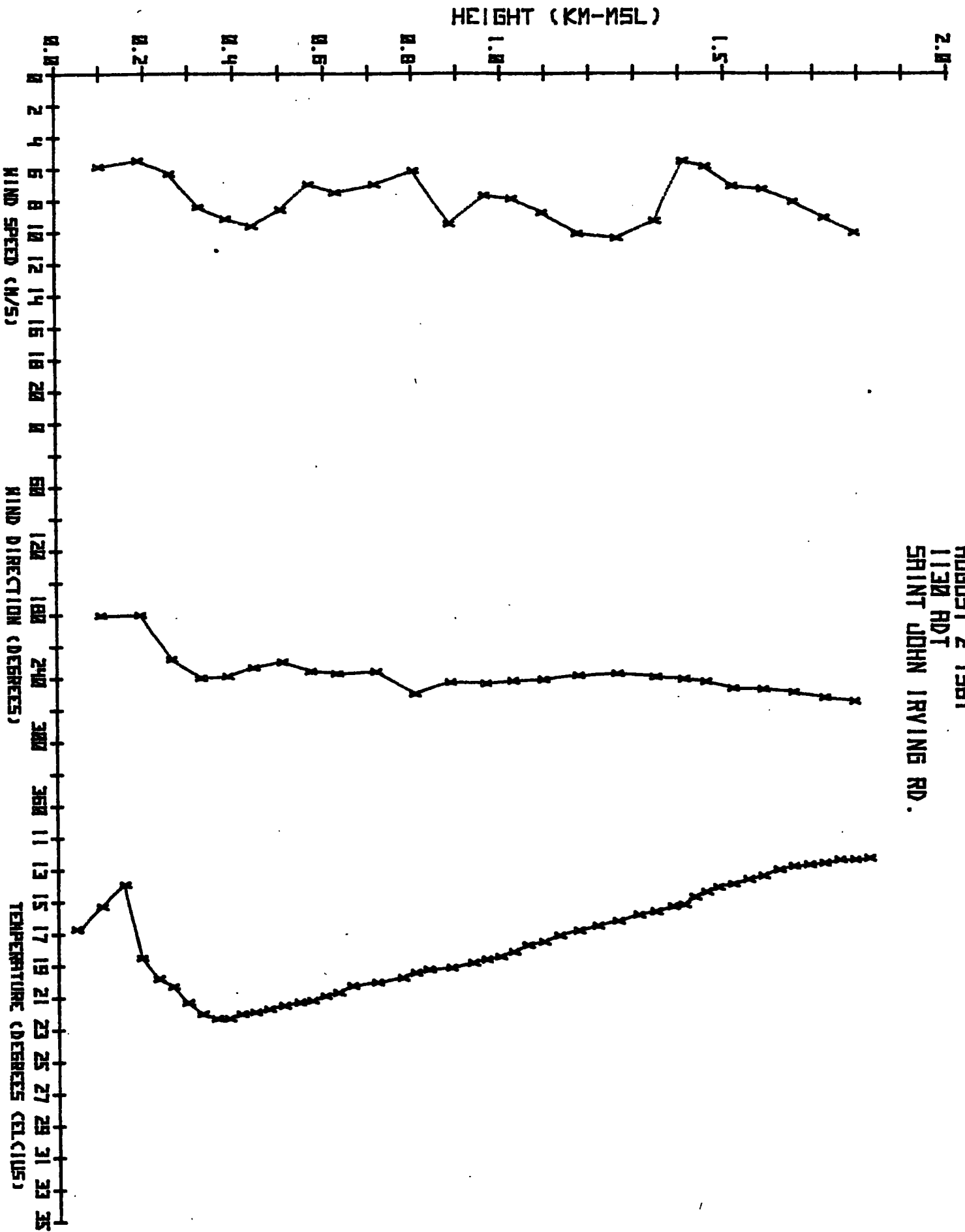
STATION SAINT JOHN IRVING ROAD STATION HEIGHT 48 FLIGHT 54

DATE AUGUST 2,1981 TIME 1330 ADT

BLINE 204.4 GPA -4.0 BRG 98

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	51			17.2		
1	96	8.9	198	15.6	142	17.2
2	186	10.3	201	18.9	230	20.7
3	263	11.3	218	21.6	296	22.2
4	337	14.3	225	22.4	377	22.7
5	417	14.5	230	22.5	458	22.3
6	496	15.0	232	22.2	533	21.8
7	578	18.6	231	21.6	622	21.4
8	657	15.3	236	21.1	691	20.9
9	728	15.6	237	20.8	764	20.4
10	800	15.2	236	20.2	836	20.0
11	854	17.1	252	19.8	873	19.5
12	924	19.4	240	19.4	976	19.2
13	1028	19.4	240	19.2	1080	19.0
14	1129	18.3	241	18.8	1178	18.4
15	1223	17.5	242	18.3	1268	18.0
16	1313	17.5	242	17.7	1358	17.3
17	1403	17.3	244	17.2	1448	16.9
18	1493	16.3	249	16.8	1538	16.5
19	1583	16.3	249	16.3	1628	16.0
20	1673	16.3	249	15.8	1718	15.5

AUGUST 2 1981
1130 RDT
SRINT JOHN IRVING RD.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 10

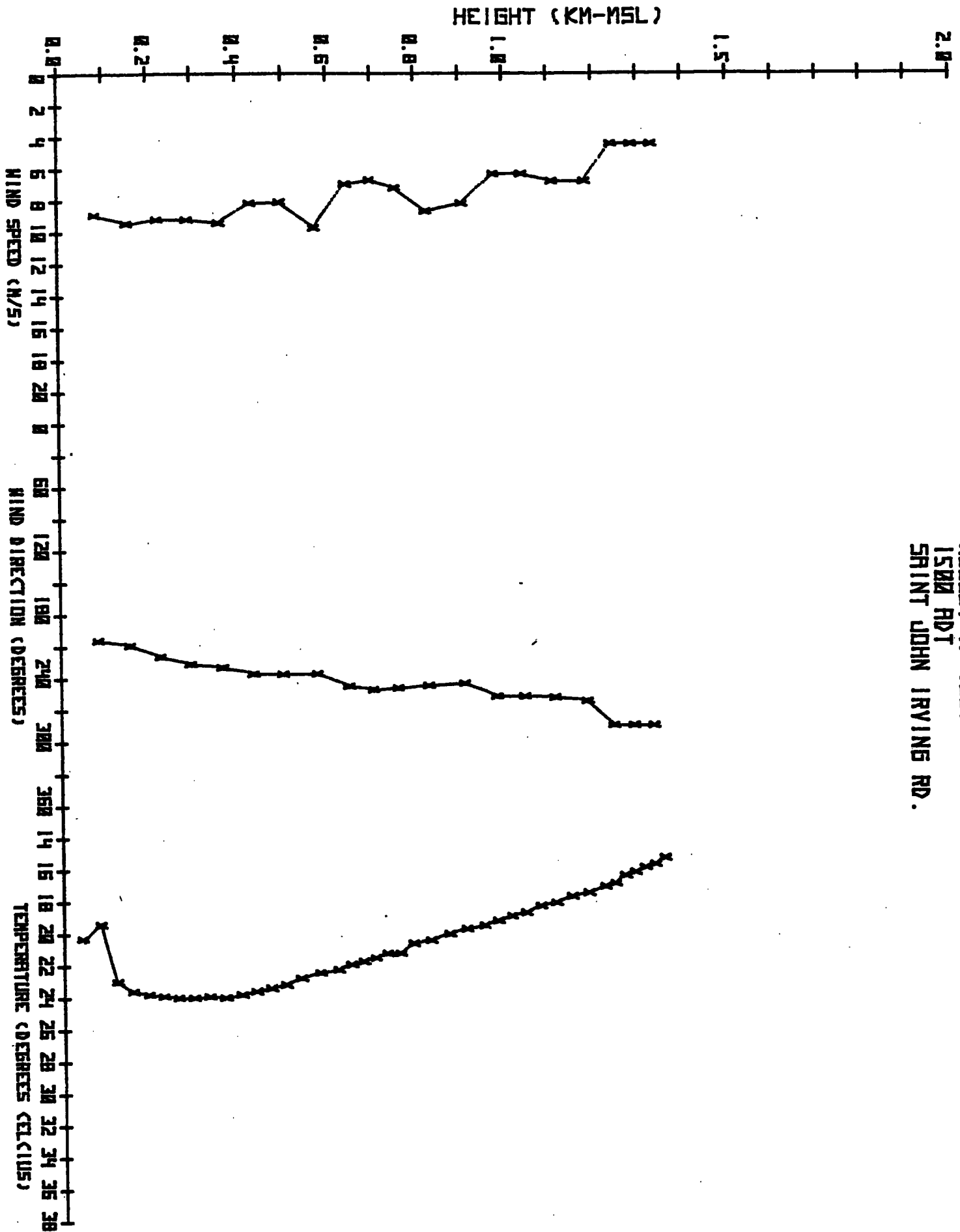
STATION SAINT JOHN IRVING RD. STATION HEIGHT 48 FLIGHT 53

DATE AUGUST 2 1981 TIME 1130 ADT

BLINE 204.4 GPA -4.1 BRG 98

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	50			16.8	SURFACE CONDITIONS	
1	101	5.9	181	15.3	152	13.9
2	189	5.5	180	18.5	227	19.8
3	260	6.3	222	20.3	294	21.3
4	326	8.4	240	22.0	358	22.3
5	385	9.2	238	22.3	411	22.0
6	442	9.7	230	21.9	472	21.7
7	506	8.6	225	21.5	541	21.3
8	569	7.0	234	21.2	598	20.9
9	629	7.5	236	20.7	659	20.3
10	717	7.0	235	20.1	775	19.8
11	805	6.1	255	19.5	835	19.3
12	885	9.5	244	19.2	935	18.9
13	966	7.7	246	18.7	998	18.5
14	1029	7.9	243	18.2	1061	17.8
15	1097	8.8	242	17.6	1132	17.2
16	1175	10.1	239	16.9	1218	16.6
17	1264	10.4	237	16.3	1310	15.9
18	1349	9.3	240	15.7	1387	15.4
19	1412	5.5	242	15.3	1436	14.8
20	1462	5.9	245	14.5	1488	14.2
21	1522	7.1	251	14.0	1556	13.7
22	1590	7.3	252	13.5	1625	13.1
23	1659	8.1	255	12.9	1693	12.8
24	1727	9.1	260	12.7	1761	12.5
25	1795	10.1	263	12.5	1830	12.4
26	1864	10.6	264	12.4	1898	12.4
27	1932	11.4	265	12.4	1966	12.4
28	2000	11.4	265	12.5	2035	12.4
29	2069	11.4	265	12.3	2103	12.2
30	2137	11.4	265	12.2	2171	12.1

AUGUST 1, 1981
 1500 PDT
 SAINT JOHN IRVING RD.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 6

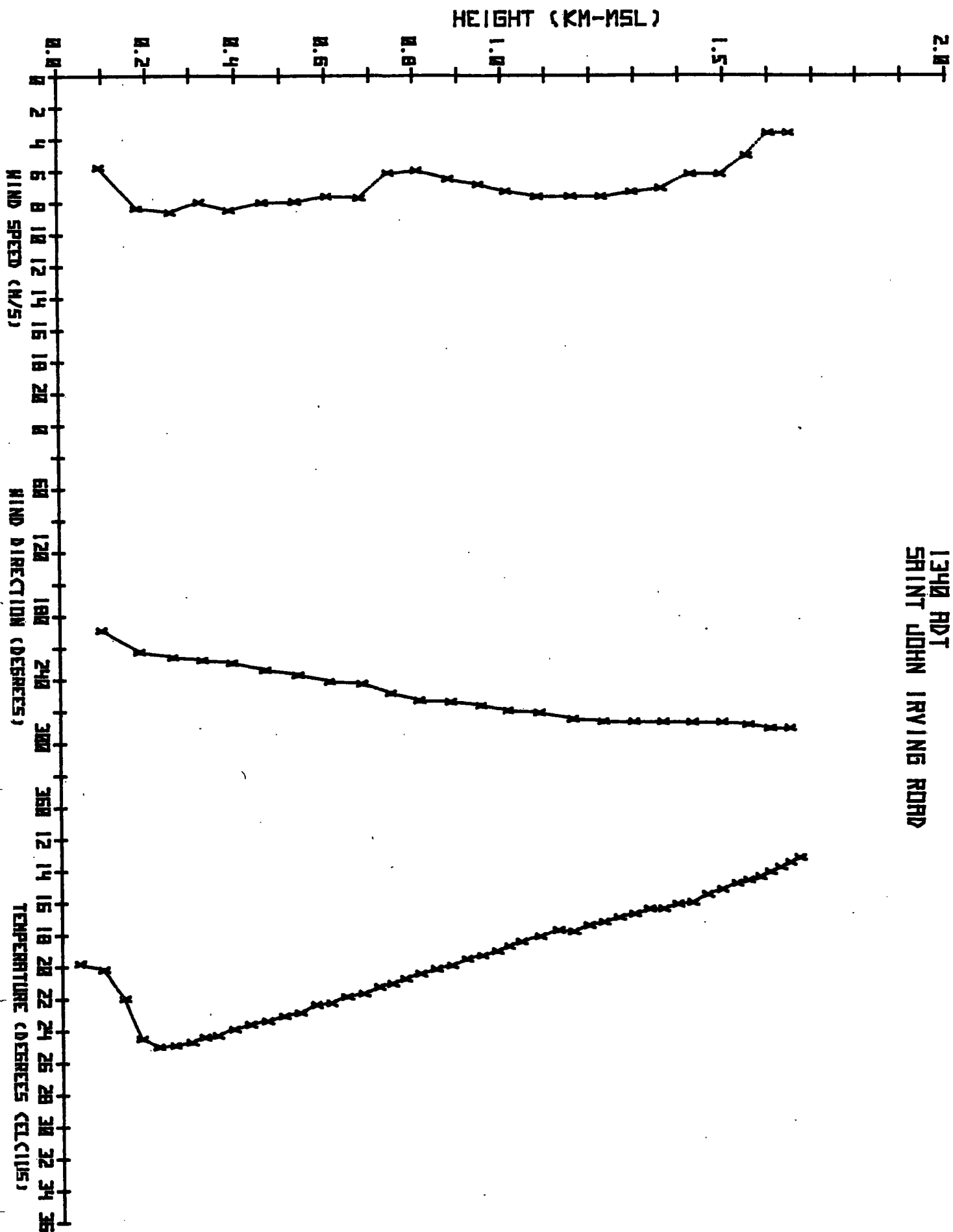
STATION SAINT JOHN IRVING RD. STATION HEIGHT 48 FLIGHT 49

DATE AUGUST 1, 1981 TIME 1500 ADT

BLINE 204.4 GPA -4.0 BRG 98

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	50			20.4		
1	85	8.9	204	19.4	121	23.0
2	156	9.4	209	23.6	192	23.8
3	225	9.1	219	23.9	259	24.0
4	294	9.2	227	24.0	329	23.9
5	364	9.4	230	24.0	399	23.8
6	432	8.1	236	23.6	464	23.4
7	498	8.1	236	23.2	531	22.8
8	574	9.7	236	22.5	617	22.3
9	645	7.0	248	22.0	672	21.8
10	700	6.7	252	21.6	728	21.3
11	758	7.2	250	21.3	787	20.7
12	828	8.7	248	20.5	869	20.1
13	909	8.2	246	19.8	949	19.6
14	981	6.4	259	19.3	1013	19.0
15	1046	6.4	259	18.8	1078	18.4
16	1113	6.8	260	18.2	1148	17.8
17	1186	6.8	264	17.6	1223	17.2
18	1246	4.5	286	17.0	1268	16.5
19	1290	4.5	286	16.3	1313	16.0
20	1335	4.5	286	15.8	1358	15.4

AUGUST 1, 1981
 1340 PDT
 SPRINT JOHN IRVING ROAD



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 5

STATION SAINT JOHN IRVING ROAD STATION HEIGHT 48 FLIGHT 48

DATE AUGUST 1,1981 TIME 1340 ADT

BLINE 204.4 GPA -4.0 BRG 98

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
					SURFACE CONDITIONS	
0	49			19.9		
1	95	5.8	193	20.2	142	22.0
2	180	8.4	214	24.5	219	25.0
3	256	8.6	219	24.9	294	24.7
4	323	8.0	222	24.4	352	24.3
5	388	8.5	225	23.9	423	23.6
6	461	8.0	232	23.4	499	23.1
7	535	8.0	236	22.9	571	22.4
8	606	7.6	243	22.3	641	21.9
9	678	7.7	245	21.7	715	21.3
10	746	6.2	254	21.1	776	20.8
11	811	6.0	261	20.5	845	20.2
12	881	6.6	262	20.0	916	19.6
13	951	6.9	266	19.4	986	19.1
14	1014	7.3	271	18.8	1042	18.5
15	1084	7.7	273	18.2	1126	17.8
16	1160	7.6	279	17.9	1195	17.5
17	1229	7.6	281	17.3	1263	17.0
18	1297	7.3	281	16.8	1331	16.5
19	1363	7.1	281	16.5	1395	16.2
20	1428	6.2	282	16.1	1462	15.6
21	1495	6.2	282	15.3	1529	14.9
22	1555	5.1	284	14.7	1581	14.5
23	1604	3.6	288	14.2	1627	13.9
24	1650	3.6	288	13.6	1672	13.3

MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 1 - 2

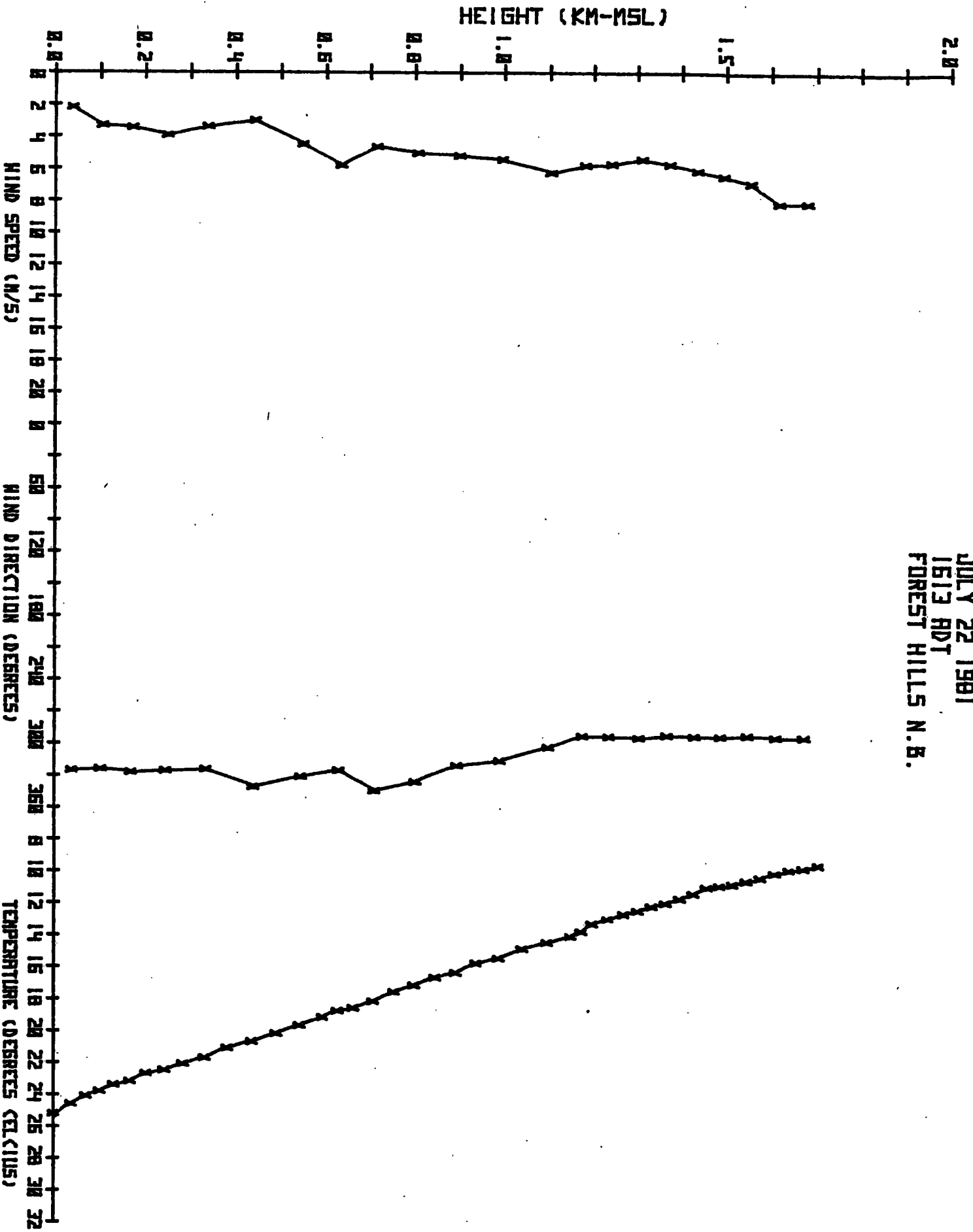
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 1

DATE JULY 22 1981 TIME 1613 ADT

BLINE 259.2 GPA 0.5 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	6			25.3		
1	40	2.2	325	24.6	73	24.1
2	104	3.3	324	23.8	136	23.4
3	172	3.5	327	23.2	208	22.7
4	250	4.0	326	22.5	292	22.1
5	340	3.4	325	21.7	389	21.1
6	444	3.0	341	20.7	499	20.2
7	551	4.5	332	19.7	602	19.2
8	637	5.8	326	18.8	672	18.6
9	717	4.7	345	18.2	763	17.6
10	809	5.1	336	17.2	855	16.7
11	900	5.2	321	16.4	946	15.8
12	998	5.5	316	15.5	1050	14.9
13	1104	6.3	304	14.5	1158	14.1
14	1183	5.8	293	13.8	1208	13.3
15	1243	5.7	294	13.0	1279	12.7
16	1311	5.4	294	12.5	1343	12.2
17	1374	5.7	292	12.0	1406	11.7
18	1437	6.1	293	11.4	1467	11.0
19	1496	6.4	293	10.9	1525	10.8
20	1556	6.9	292	10.6	1587	10.4
21	1619	8.1	294	10.1	1651	9.9
22	1683	8.1	294	9.8	1715	9.6

JULY 22 1981
1613 ADT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 1 - 6

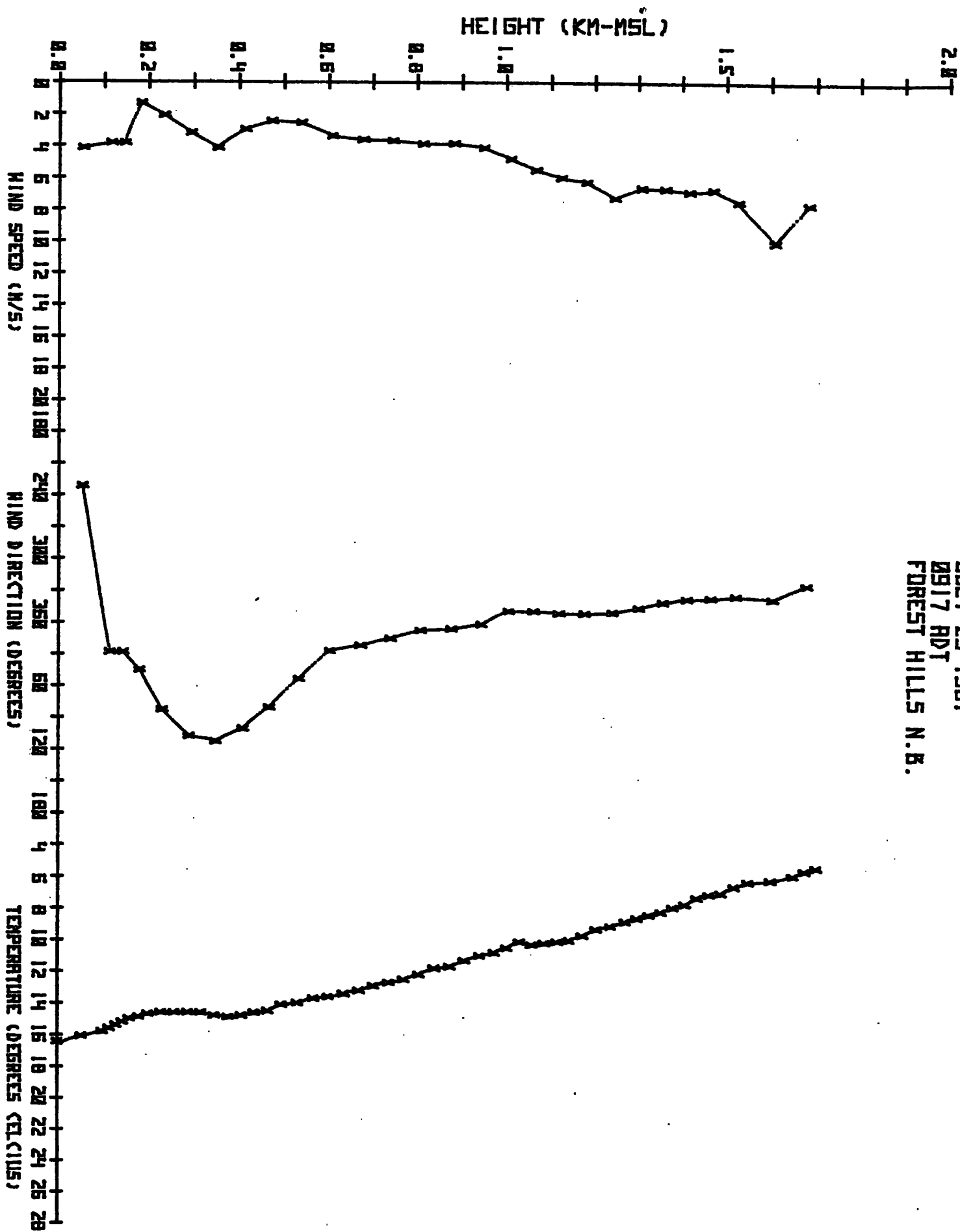
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 1

DATE JULY 23 1981 TIME 0917 ADT

BLINE 259.2 GPA 0.5 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	6			16.5	SURFACE CONDITIONS	
1	55	4.2	231	16.1	103	15.8
2	118	3.8	28	15.6	133	15.4
3	148	3.8	28	15.2	163	15.0
4	185	1.3	45	14.9	206	14.7
5	236	2.1	83	14.6	266	14.6
6	296	3.2	108	14.6	326	14.6
7	356	4.2	113	14.8	386	14.9
8	415	3.0	101	14.8	445	14.6
9	474	2.4	81	14.5	504	14.1
10	540	2.6	54	14.0	577	13.7
11	611	3.4	27	13.6	646	13.4
12	680	3.6	22	13.2	714	12.9
13	748	3.7	15	12.7	782	12.5
14	816	3.9	7	12.2	850	11.8
15	883	3.9	6	11.7	917	11.3
16	951	4.1	1	11.0	984	10.8
17	1012	4.8	349	10.5	1041	10.1
18	1069	5.5	349	10.3	1097	10.2
19	1125	6.0	351	10.1	1153	10.0
20	1184	6.3	351	9.7	1215	9.3
21	1249	7.3	350	9.1	1282	8.8
22	1309	6.6	346	8.6	1336	8.4
23	1363	6.6	340	8.2	1390	7.9
24	1418	6.8	337	7.7	1445	7.3
25	1472	6.7	336	7.1	1499	7.0
26	1530	7.5	335	6.6	1560	6.3
27	1611	10.0	338	6.2	1661	5.9
28	1686	7.7	324	5.6	1712	5.4

JULY 23 1981
0917 RDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 1 - 8

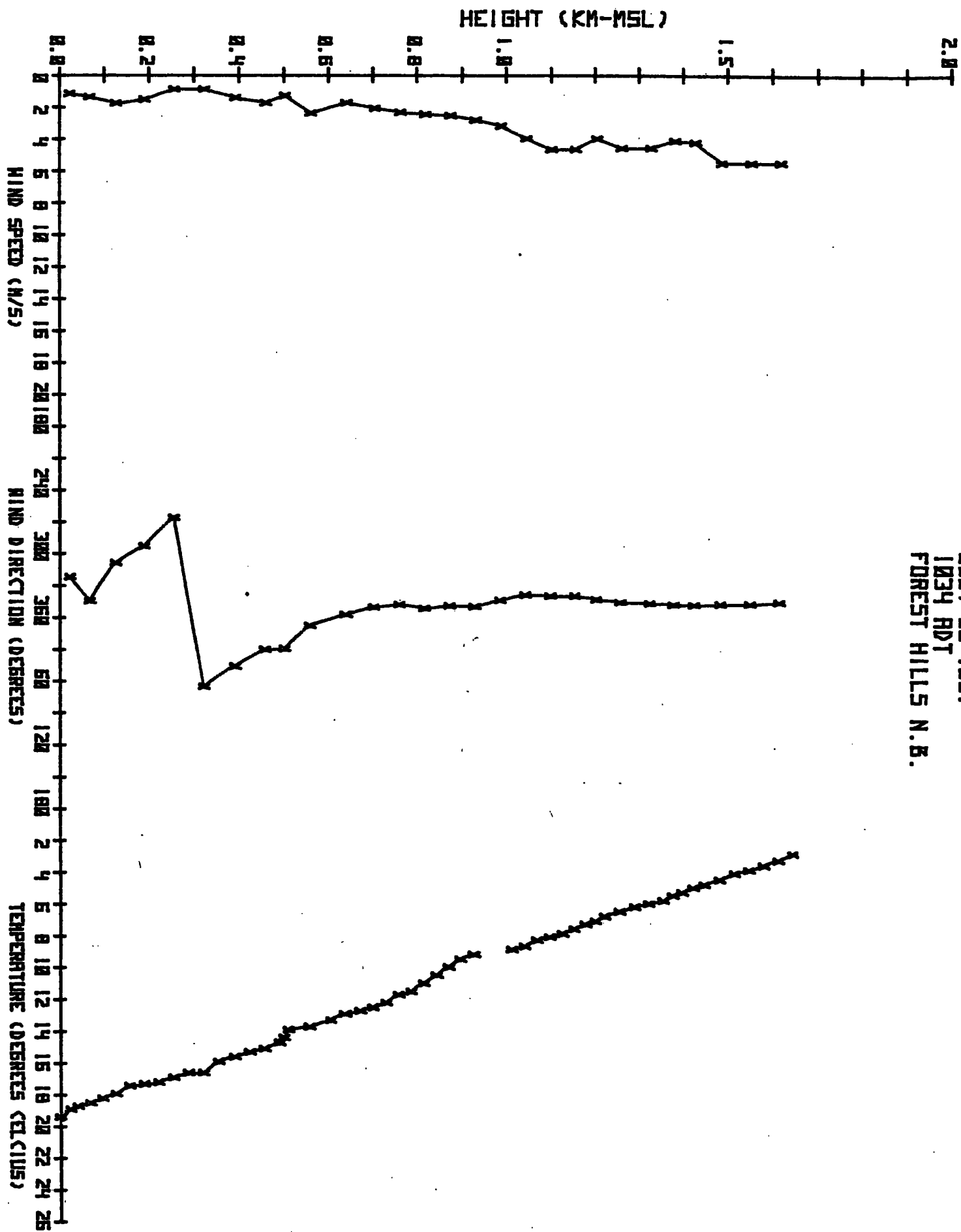
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 2

DATE JULY 23 1981 TIME 1034 ADT

BLINE 259.2 GPA 0.5 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	7			19.5	SURFACE CONDITIONS	
1	24	1.1	322	18.9	41	18.7
2	69	1.4	344	18.5	97	18.2
3	127	1.8	309	17.9	157	17.4
4	190	1.5	293	17.3	224	17.2
5	258	0.9	266	16.9	291	16.6
6	325	0.9	65	16.6	360	15.9
7	394	1.4	46	15.6	428	15.3
8	461	1.7	30	15.1	494	14.7
9	504	1.3	30	14.4	514	13.9
10	562	2.4	8	13.7	611	13.3
11	644	1.7	357	12.9	676	12.7
12	706	2.1	350	12.5	736	12.2
13	764	2.3	348	11.7	793	11.5
14	821	2.4	352	11.0	849	10.5
15	875	2.5	349	10.0	901	9.5
16	931	2.8	350	9.2	962	M
17	990	3.2	344	M	1018	8.9
18	1046	4.0	339	8.7	1074	8.3
19	1102	4.7	340	8.1	1130	7.9
20	1157	4.6	340	7.6	1184	7.3
21	1206	4.0	343	7.1	1228	6.8
22	1262	4.6	346	6.5	1296	6.2
23	1329	4.5	347	6.0	1361	5.8
24	1382	4.1	348	5.5	1404	5.3
25	1429	4.2	349	5.0	1454	4.8
26	1488	5.5	348	4.5	1523	4.1
27	1556	5.5	348	3.9	1588	3.6
28	1620	5.5	346	3.3	1653	2.9

JULY 23 1981
1034 ADT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 1 - 10

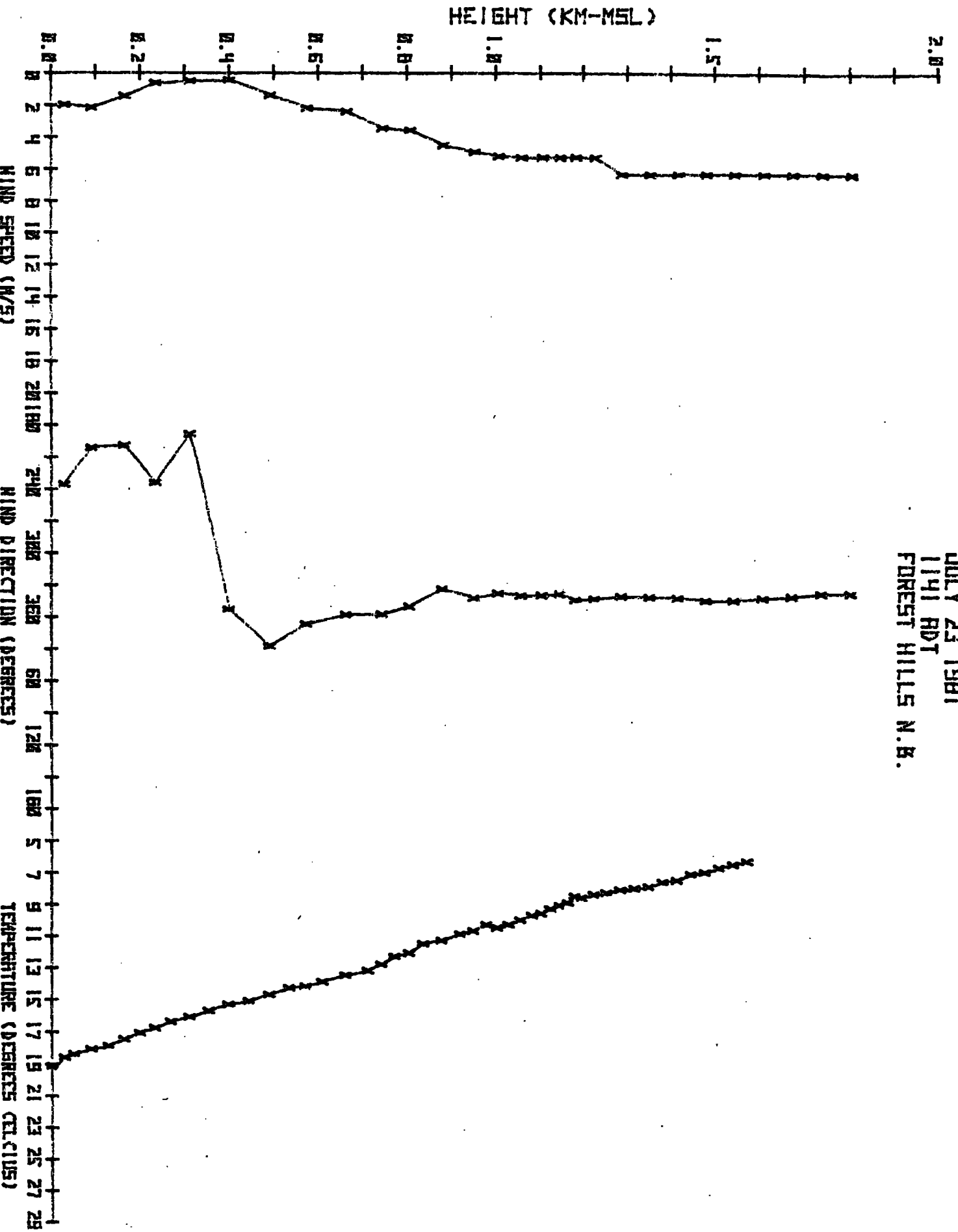
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 3

DATE JULY 23 1981 TIME 1141 ADT

BLINE 259.2 GPA 0.5 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	8			19.2	SURFACE CONDITIONS	
1	30	2.0	236	18.6	52	18.4
2	91	2.2	201	18.1	130	17.9
3	165	1.4	199	17.5	200	17.1
4	235	0.6	234	16.8	270	16.4
5	313	0.5	188	16.1	356	15.7
6	402	0.5	353	15.3	448	15.1
7	493	1.4	28	14.7	538	14.3
8	576	2.2	7	14.2	613	13.9
9	664	2.4	358	13.5	715	13.2
10	745	3.5	358	12.8	776	12.3
11	808	3.6	350	12.1	840	11.5
12	881	4.5	334	11.3	923	10.9
13	952	5.0	342	10.7	982	10.3
14	1007	5.2	338	10.5	1032	10.3
15	1059	5.3	340	10.0	1085	9.7
16	1106	5.3	340	9.6	1126	9.3
17	1147	5.3	339	9.1	1167	8.9
18	1183	5.3	344	8.5	1199	8.6
19	1228	5.3	343	8.4	1256	8.3
20	1288	6.3	341	8.1	1321	8.0
21	1353	6.3	341	7.9	1385	7.6
22	1418	6.3	342	7.5	1450	7.1
23	1482	6.3	345	7.0	1515	6.7
24	1547	6.3	345	6.5	1579	6.3
25	1612	6.3	342	M		
26	1676	6.3	341	M		
27	1741	6.4	338	M		
28	1805	6.4	338	M		

JULY 23 1981
1141 PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 1 - 12

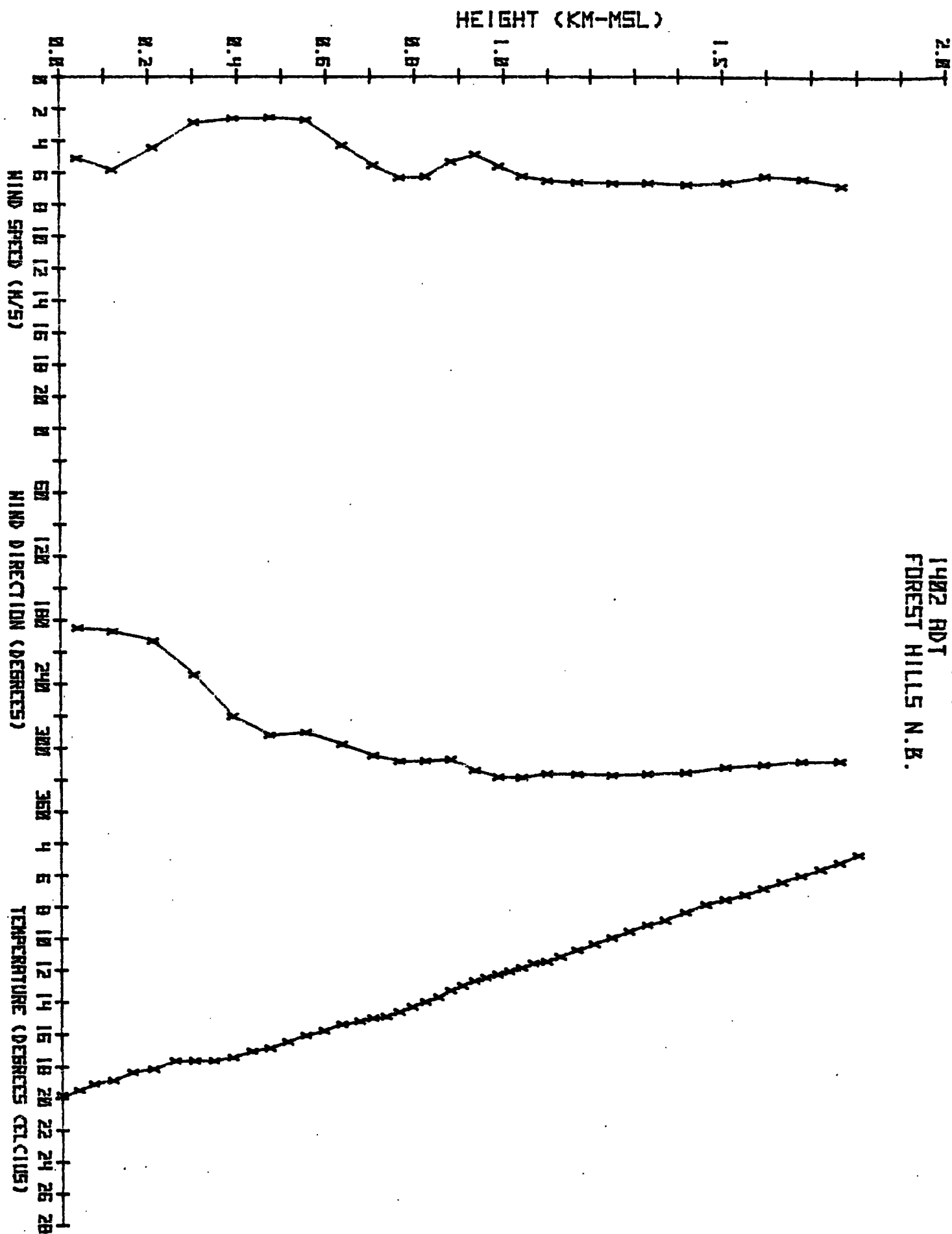
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 1

DATE JULY 23 1981 TIME 1402 ADT

BLINE 259.2 GPA 0.5 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	6			19.9	SURFACE CONDITIONS	
1	40	5.1	188	19.5	75	19.1
2	119	5.9	191	18.9	163	18.4
3	211	4.5	200	18.2	259	17.7
4	303	2.9	232	17.7	347	17.7
5	391	2.6	271	17.5	434	17.1
6	474	2.6	289	16.9	515	16.5
7	556	2.7	286	16.1	597	15.8
8	637	4.3	297	15.4	678	15.2
9	707	5.6	308	15.0	737	14.9
10	766	6.3	313	14.6	796	14.3
11	825	6.3	313	14.0	855	13.7
12	882	5.4	312	13.3	909	13.0
13	935	4.9	322	12.7	962	12.5
14	989	5.6	328	12.3	1015	12.1
15	1042	6.3	329	11.9	1069	11.6
16	1100	6.5	325	11.5	1131	11.2
17	1171	6.6	326	10.8	1210	10.4
18	1250	6.7	327	10.0	1290	9.6
19	1331	6.7	325	9.2	1373	8.9
20	1419	6.8	324	8.4	1465	7.9
21	1510	6.6	319	7.6	1556	7.3
22	1598	6.2	317	6.9	1640	6.5
23	1682	6.4	314	6.1	1724	5.7
24	1766	6.9	314	5.3	1808	4.8
25	1850	7.6	311	4.4	1892	4.0
26	1934	9.1	313	M		
27	2018	9.1	313	M		
28	2102	9.1	313	M		

JULY 23 1981
1402 RDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 1 - 14

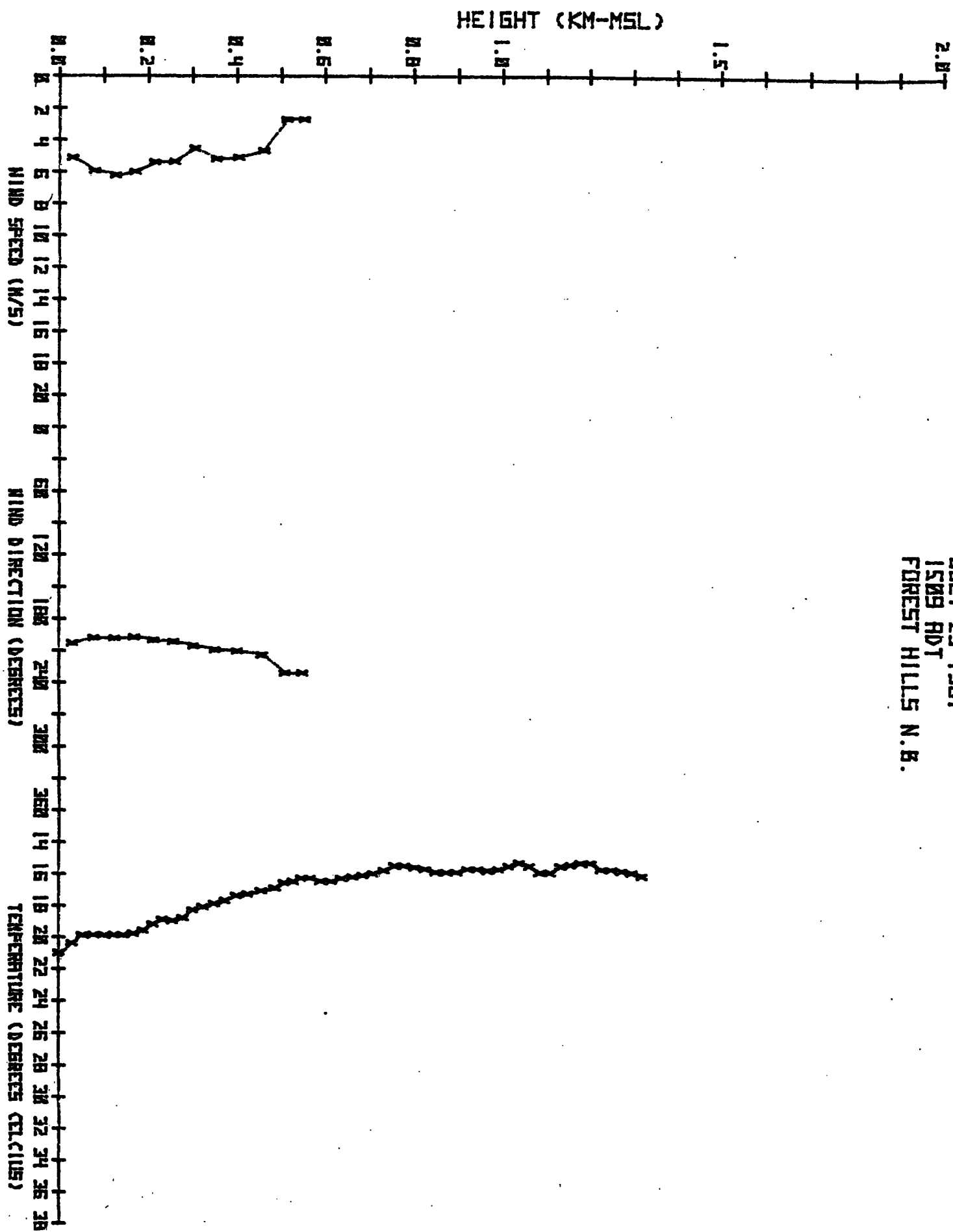
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 5

DATE JULY 23 1981 TIME 1509 ADT

BLINE 259.2 GPA 0.5 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	7			21.1	SURFACE CONDITIONS	
1	30	5.1	203	20.4	54	19.9
2	79	6.0	198	19.9	105	19.9
3	126	6.2	199	19.9	148	19.9
4	170	6.0	198	19.8	192	19.6
5	215	5.4	201	19.2	237	18.9
6	260	5.4	202	19.0	283	18.8
7	306	4.5	206	18.3	329	18.1
8	354	5.2	209	17.9	379	17.7
9	405	5.1	211	17.4	431	17.3
10	462	4.7	214	17.1	492	16.9
11	513	2.7	231	16.6	534	16.5
12	553	2.7	231	16.3	573	16.3
13	596			16.5	620	16.5
14	643			16.3	667	16.2
15	691			16.1	714	16.0
16	738			15.8	761	15.5
17	785			15.5	809	15.6
18	832			15.7	856	15.9
19	879			15.9	903	15.9
20	927			15.7	950	15.7
21	974			15.8	997	15.7
22	1021			15.5	1045	15.3
23	1068			15.5	1092	15.9
24	1115			15.9	1139	15.5
25	1163			15.4	1186	15.3
26	1210			15.3	1233	15.7
27	1257			15.7	1280	15.8
28	1304			15.9	1328	16.1

JULY 23 1981
 1509 ADT
 FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 1 - 16

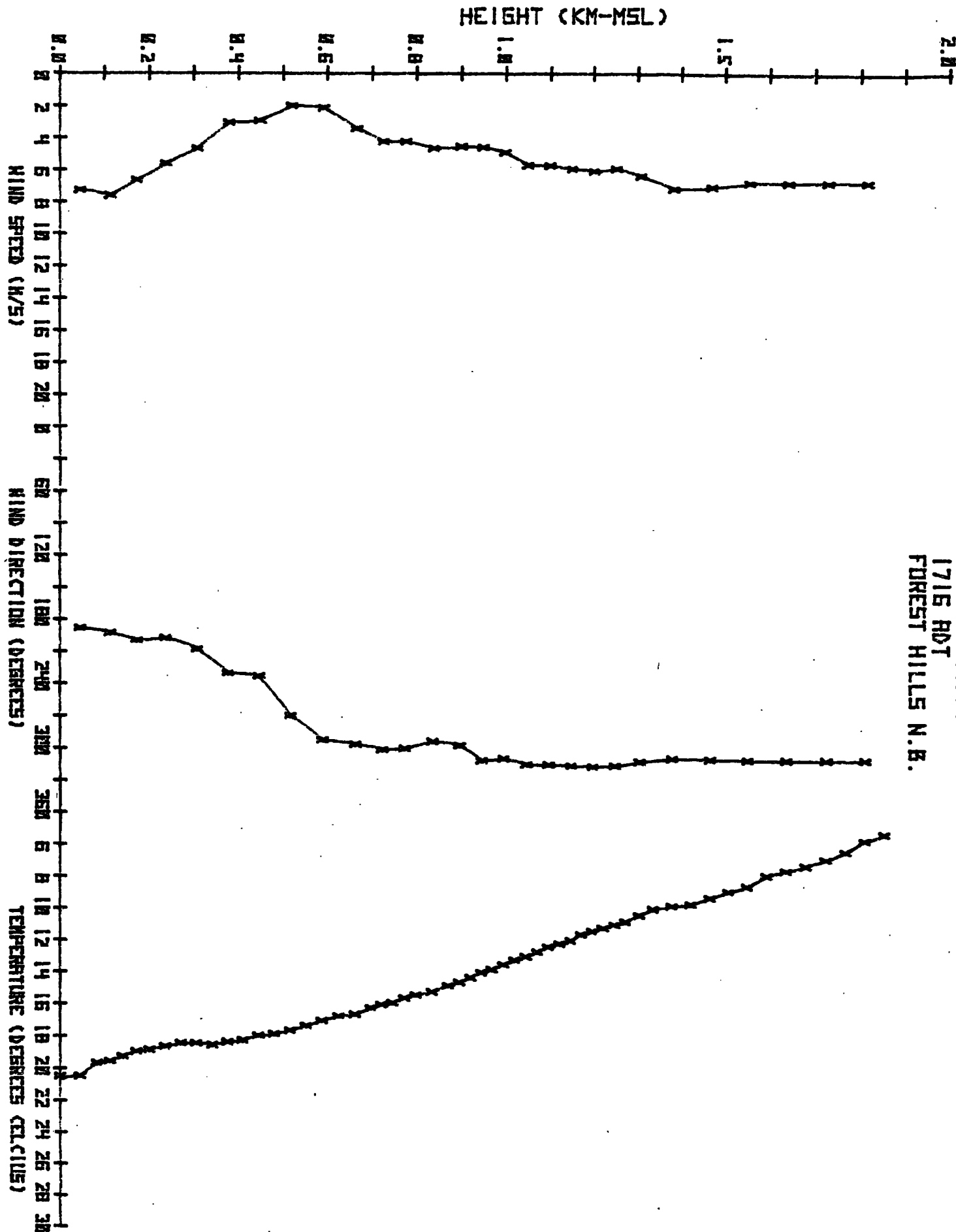
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 6

DATE JULY 23 11981 TIME 1716 ADT

BLINE 259.2 GPA 0.5 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	6			20.6	SURFACE CONDITIONS	
1	45	7.3	189	20.5	84	19.7
2	113	7.7	193	19.6	142	19.3
3	172	6.7	200	19.0	202	18.9
4	238	5.6	198	18.7	273	18.5
5	309	4.7	208	18.5	345	18.6
6	379	3.1	231	18.4	413	18.3
7	448	3.0	234	18.0	484	17.9
8	520	2.0	271	17.7	555	17.4
9	592	2.2	293	17.1	629	16.8
10	665	3.4	297	16.7	701	16.3
11	726	4.3	302	16.1	750	16.0
12	776	4.3	301	15.7	802	15.5
13	838	4.7	294	15.3	874	14.9
14	899	4.6	298	14.7	924	14.4
15	948	4.6	312	14.1	973	13.9
16	998	4.9	310	13.6	1023	13.3
17	1049	5.7	316	13.1	1074	12.8
18	1099	5.8	316	12.5	1125	12.3
19	1150	5.9	317	12.1	1175	11.7
20	1201	6.1	318	11.5	1226	11.3
21	1251	5.9	317	11.1	1277	10.9
22	1308	6.4	313	10.5	1339	10.1
23	1382	7.1	310	9.9	1426	9.8
24	1469	7.0	311	9.4	1512	9.0
25	1556	6.8	312	8.7	1599	8.0
26	1642	6.8	312	7.7	1686	7.4
27	1729	6.8	312	7.0	1772	6.5
28	1816	6.8	312	5.8	1859	5.4

JULY 23 11981
 1715 HDT
 FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 1 - 18

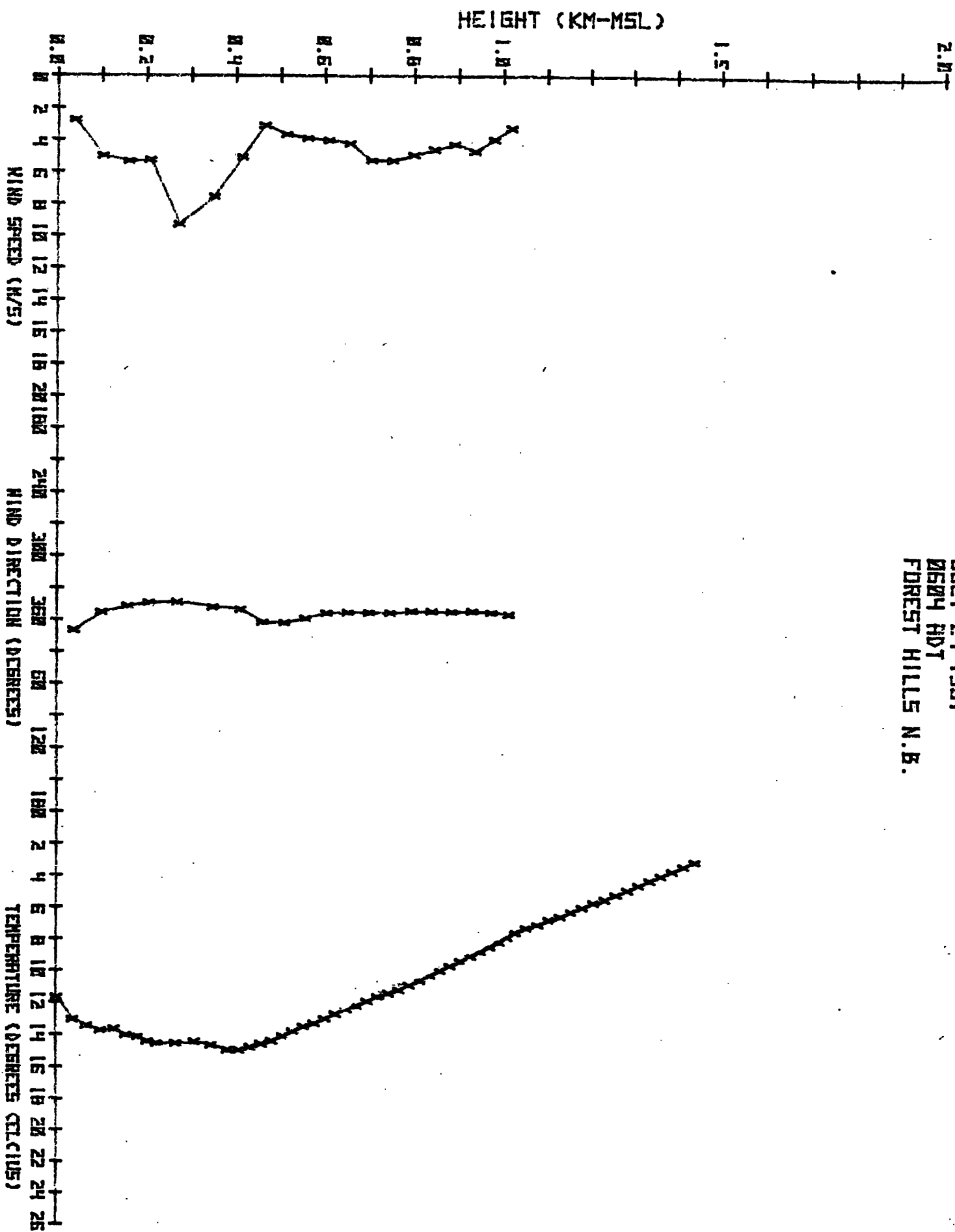
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 1

DATE JULY 24 1981 TIME 0604 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	7			11.8	SURFACE CONDITIONS	
1	39	2.8	10	13.1	70	13.5
2	101	5.1	354	13.8	133	13.7
3	160	5.4	348	14.1	187	14.2
4	208	5.3	345	14.5	230	14.6
5	272	9.3	344	14.6	315	14.5
6	352	7.6	349	14.7	389	15.0
7	415	5.1	351	15.0	441	14.8
8	465	3.1	3	14.6	490	14.4
9	514	3.7	3	14.1	538	13.8
10	561	3.9	359	13.5	585	13.3
11	609	4.1	354	13.0	633	12.7
12	657	4.3	354	12.4	680	12.2
13	704	5.3	354	11.9	728	11.6
14	752	5.3	354	11.4	776	11.2
15	799	5.0	352	10.9	822	10.6
16	845	4.6	352	10.3	868	10.0
17	891	4.3	353	9.7	914	9.4
18	936	4.7	352	9.1	959	8.8
19	980	4.0	353	8.5	1000	8.2
20	1018	3.3	355	7.9	1036	7.6
21	1062			7.3	1088	7.1
22	1114			6.8	1139	6.6
23	1165			6.3	1191	6.0
24	1217			5.7	1242	5.5
25	1268			5.2	1294	4.9
26	1319			4.6	1345	4.3
27	1371			4.0	1397	3.7
28	1422			3.4	1448	3.1

JULY 24 1981
0604 EDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 1 - 20

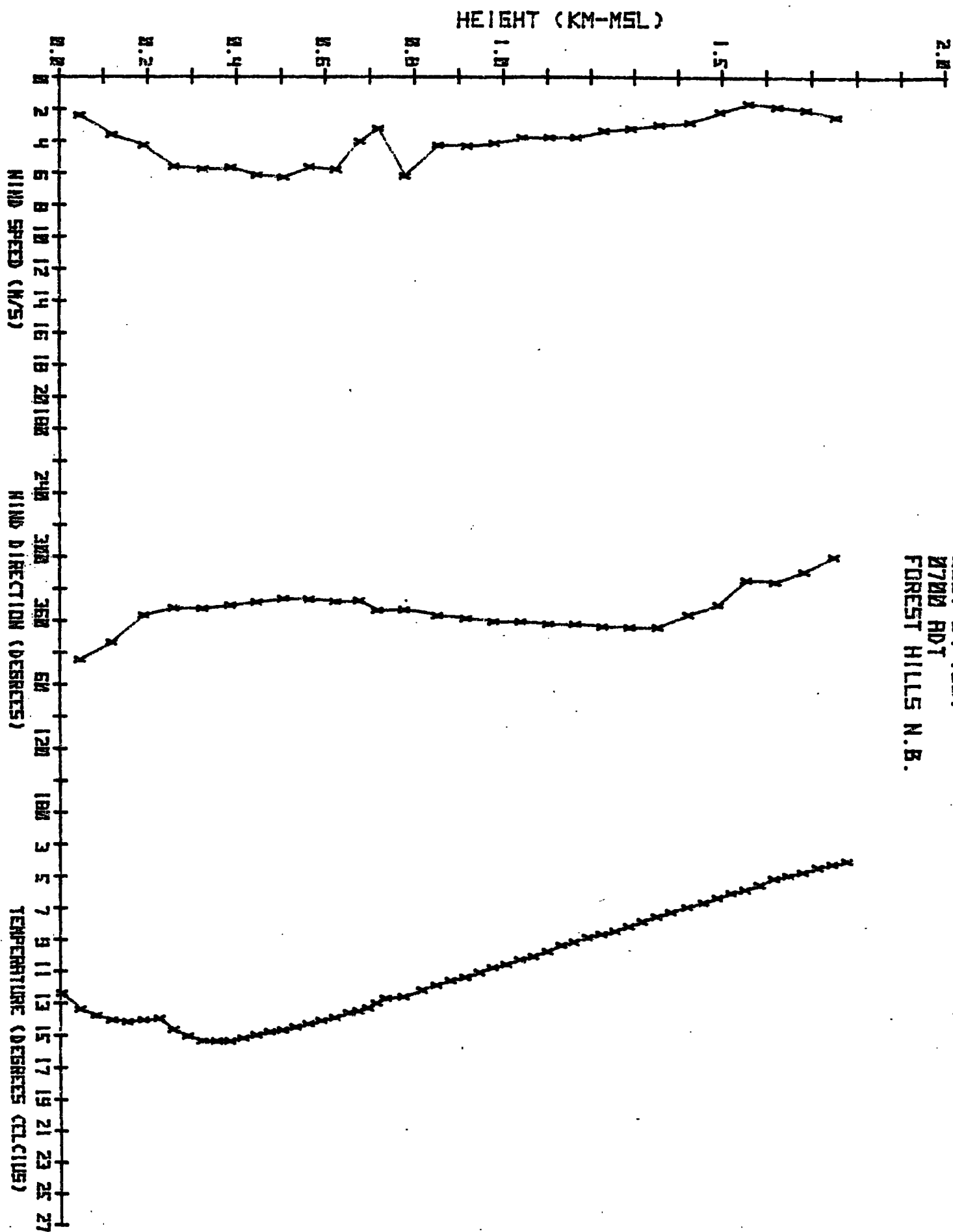
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 2

DATE JULY 24 1981 TIME 0700 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	10			12.5	SURFACE CONDITIONS	
1	46	2.4	37	13.4	83	13.8
2	119	3.6	21	14.1	155	14.2
3	191	4.3	356	14.1	227	14.0
4	259	5.6	349	14.7	292	15.1
5	325	5.8	349	15.4	358	15.4
6	388	5.7	346	15.4	418	15.2
7	447	6.2	343	15.0	477	14.8
8	506	6.3	340	14.7	535	14.5
9	565	5.7	341	14.3	594	14.1
10	625	5.8	343	13.9	655	13.6
11	677	4.1	342	13.5	699	13.3
12	718	3.2	351	13.0	738	12.7
13	779	6.2	350	12.6	821	12.2
14	853	4.3	356	11.9	885	11.6
15	918	4.4	358	11.4	950	11.1
16	980	4.2	1	10.8	1011	10.6
17	1042	3.8	1	10.3	1073	10.1
18	1104	3.8	4	9.8	1135	9.4
19	1167	3.8	4	9.2	1198	8.9
20	1229	3.4	6	8.7	1260	8.5
21	1292	3.2	7	8.2	1323	7.9
22	1356	3.0	7	7.6	1389	7.3
23	1426	2.8	355	7.0	1463	6.7
24	1495	2.2	346	6.4	1527	6.1
25	1559	1.7	323	5.9	1591	5.6
26	1624	1.9	324	5.2	1656	5.0
27	1688	2.0	315	4.8	1720	4.5
28	1752	2.5	301	4.3	1784	4.1

JULY 24 1961
 0700 PDT
 FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 2

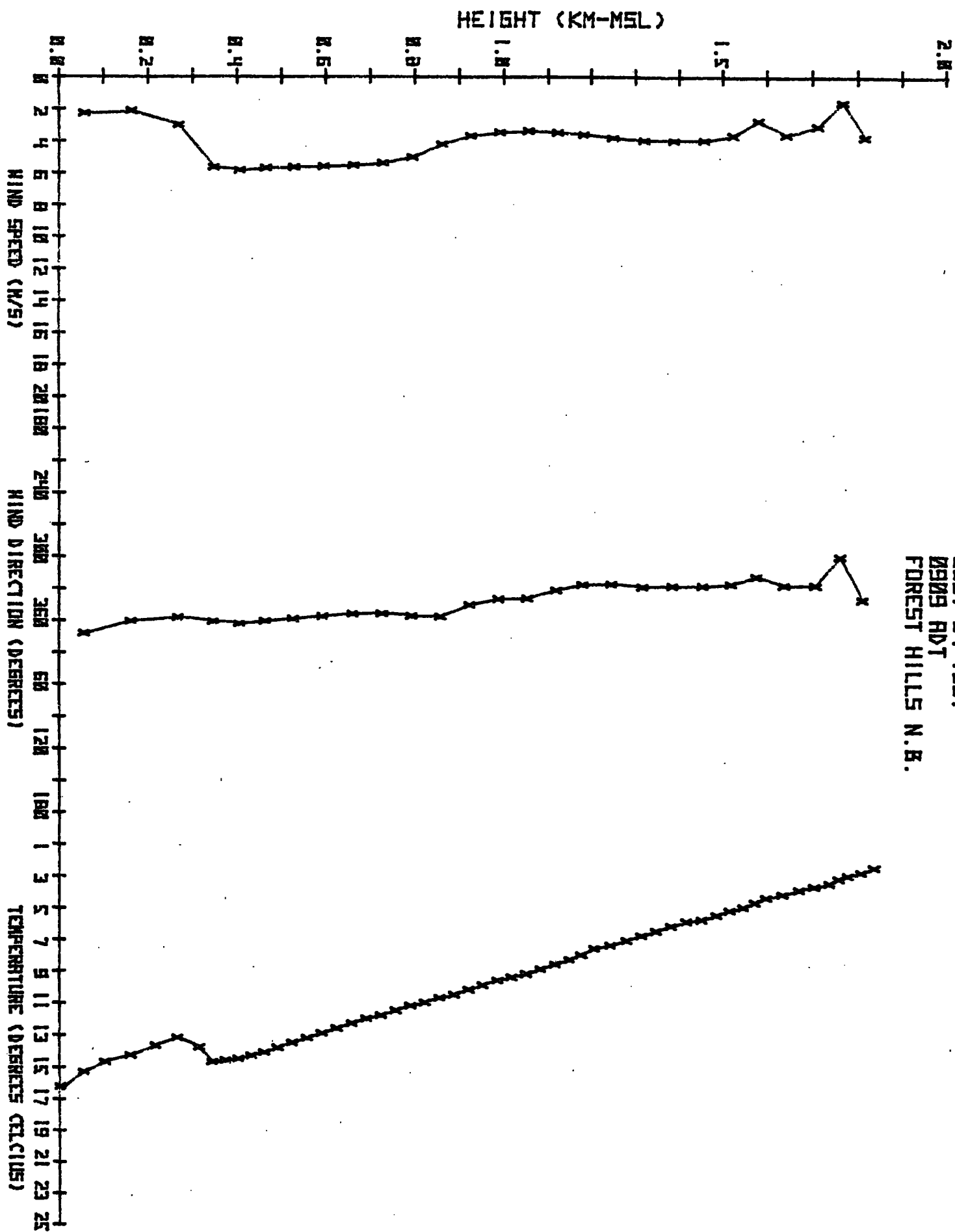
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 3

DATE JULY 24 1981 TIME 0909 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
					SURFACE CONDITIONS	
0	9			16.3		
1	57	2.3	13	15.3	105	14.7
2	162	2.1	1	14.3	219	13.7
3	269	3.0	358	13.2	319	13.8
4	348	5.7	1	14.7	378	14.6
5	407	5.9	4	14.5	437	14.3
6	466	5.7	1	14.1	496	13.8
7	530	5.7	359	13.5	563	13.2
8	596	5.6	357	12.9	630	12.6
9	663	5.6	354	12.3	696	12.0
10	730	5.4	354	11.8	763	11.5
11	795	5.1	356	11.2	828	11.0
12	860	4.2	357	10.7	893	10.5
13	926	3.7	346	10.2	958	9.9
14	991	3.5	340	9.6	1023	9.4
15	1056	3.4	340	9.2	1088	8.9
16	1121	3.5	332	8.6	1154	8.3
17	1183	3.6	327	8.0	1211	7.6
18	1249	3.8	326	7.4	1286	7.1
19	1320	4.0	329	6.8	1354	6.5
20	1388	4.0	328	6.2	1423	5.9
21	1457	4.0	328	5.8	1492	5.5
22	1523	3.6	326	5.2	1554	5.0
23	1580	2.7	320	4.7	1606	4.4
24	1642	3.6	327	4.2	1679	3.9
25	1712	3.1	327	3.7	1745	3.5
26	1765	1.6	300	3.2	1786	3.0
27	1815	3.8	341	2.8	1845	2.5
28	1875	3.8	356	2.3	1904	2.3

JULY 24 1981
 0909 PDT
 FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 4

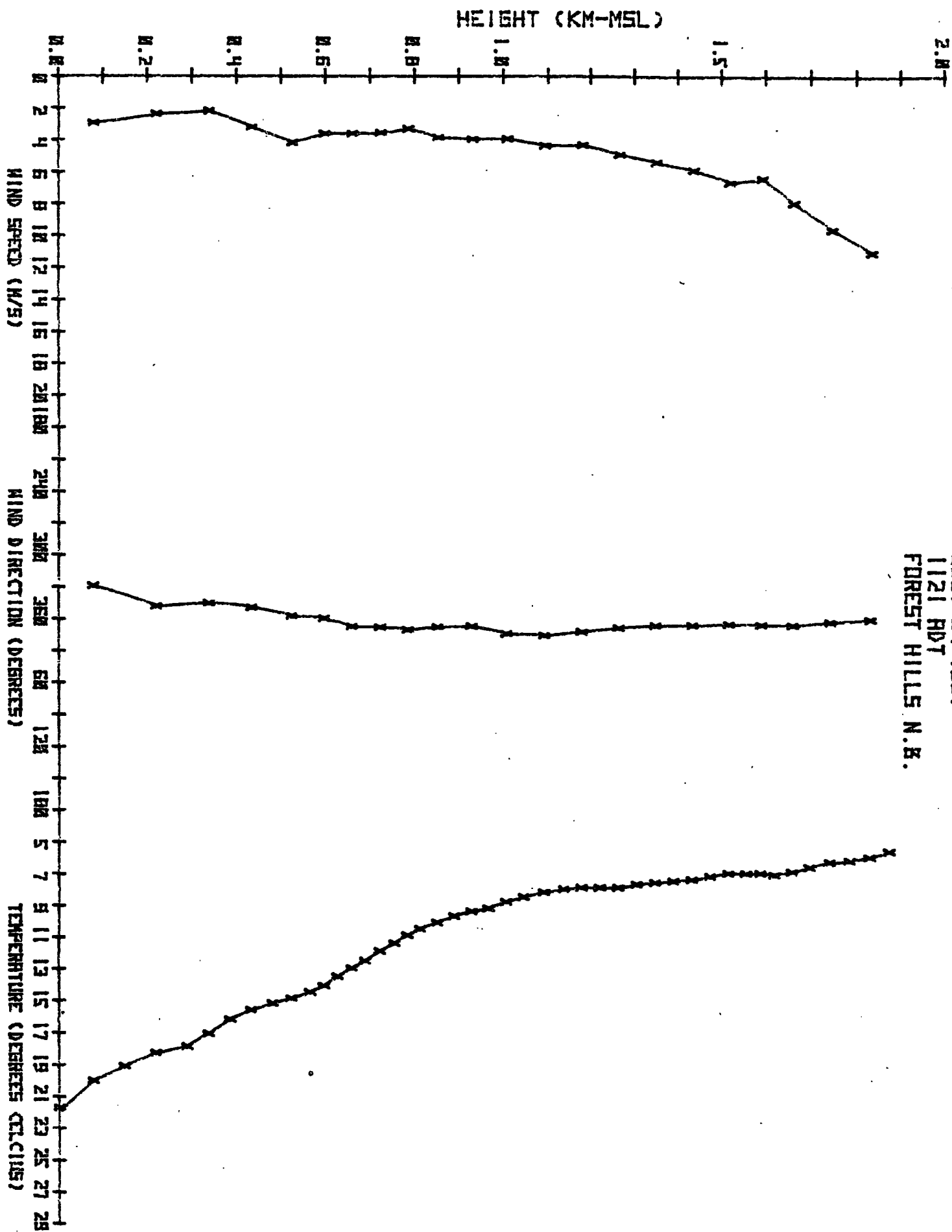
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 4

DATE JULY 24 1981 TIME 1121 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S.)	DIRECTION	TEMP	HEIGHT (M)	TEMP
					SURFACE CONDITIONS	
0	8			21.8		
1	79	2.9	329	20.0	150	19.1
2	220	2.4	349	18.3	291	17.9
3	339	2.2	346	17.1	388	16.2
4	436	3.2	350	15.6	484	15.2
5	526	4.2	358	14.9	568	14.5
6	599	3.6	360	14.1	630	13.5
7	661	3.6	8	13.0	692	12.5
8	725	3.5	8	11.9	758	11.4
9	787	3.3	11	10.9	816	10.5
10	854	3.9	8	10.1	892	9.7
11	931	4.0	7	9.4	970	9.2
12	1009	3.9	15	8.8	1049	8.5
13	1094	4.4	16	8.2	1140	8.0
14	1182	4.3	12	7.9	1224	7.9
15	1267	4.9	9	7.9	1309	7.7
16	1351	5.4	7	7.6	1394	7.5
17	1436	5.9	7	7.4	1478	7.2
18	1520	6.6	6	7.0	1562	7.0
19	1593	6.4	6	7.0	1625	7.1
20	1664	7.9	7	6.9	1703	6.6
21	1747	9.6	3	6.3	1792	6.2
22	1836	11.1	1	6.0	1881	5.6
23	1926	11.3	4	5.5	1970	5.4
24	2015	11.3	4	5.2	2059	4.9
25	2104	11.2	4	4.4	2148	4.1
26	2193	11.1	2	3.9	2238	3.7
27	2282	10.9	358	3.4	2327	3.2
28	2371	10.9	357	3.0	2416	3.1

JULY 24 1981
1121 RDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 6

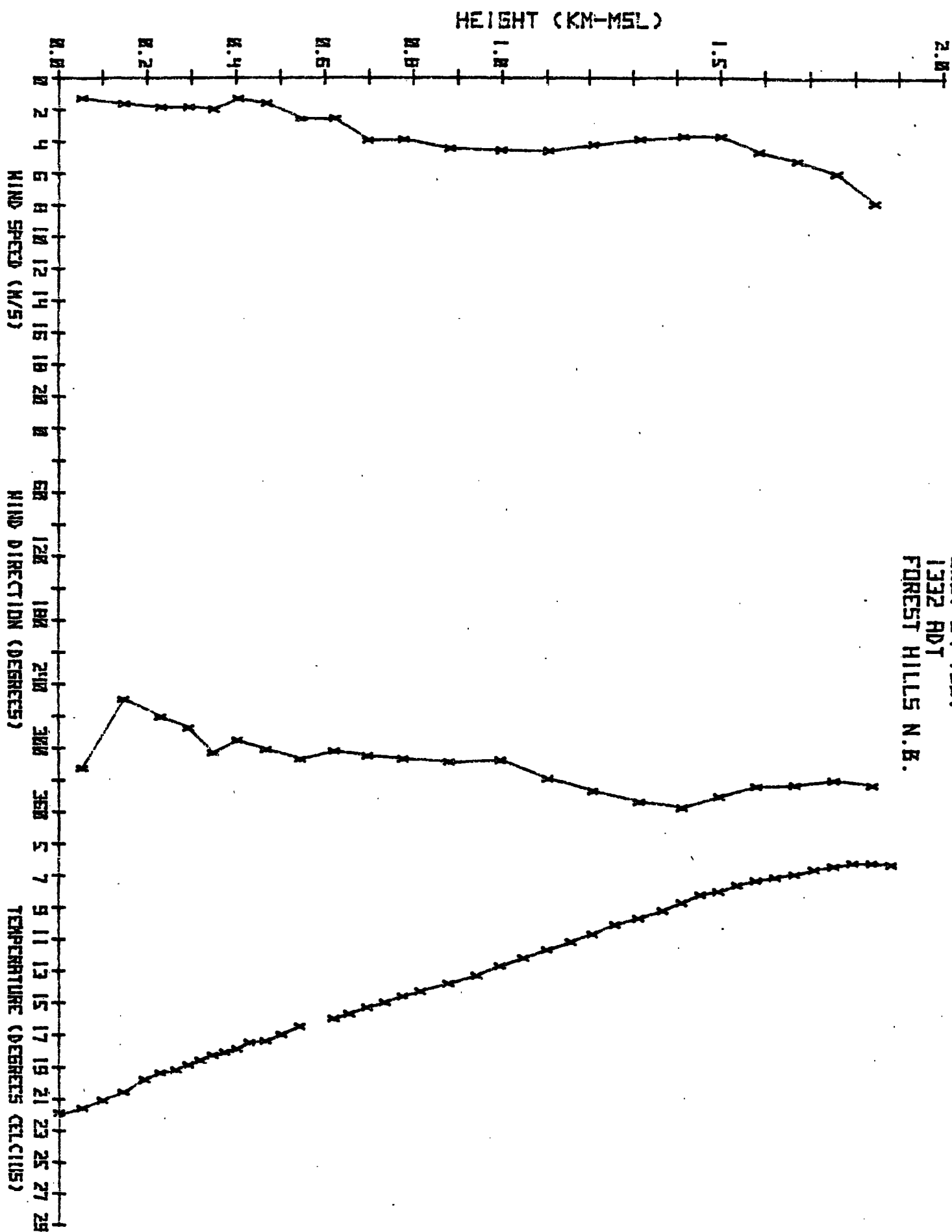
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 5

DATE JULY 24 1981 TIME 1332 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	7			22.0	SURFACE CONDITIONS	
1	53	1.3	319	21.6	100	21.1
2	148	1.6	255	20.6	195	19.8
3	231	1.9	271	19.4	267	19.2
4	294	1.9	281	18.9	322	18.6
5	349	2.0	305	18.3	377	18.1
6	405	1.3	293	17.9	433	17.5
7	469	1.6	301	17.4	505	17.0
8	547	2.6	311	16.5	588	M
9	623	2.6	303	16.0	658	15.7
10	698	3.9	307	15.3	738	15.0
11	779	3.9	310	14.6	819	14.3
12	882	4.4	313	13.8	945	13.3
13	998	4.5	311	12.7	1052	12.2
14	1105	4.6	328	11.7	1158	11.2
15	1210	4.2	340	10.7	1261	10.1
16	1316	3.9	351	9.7	1371	9.2
17	1414	3.7	356	8.7	1457	8.2
18	1500	3.7	345	8.0	1543	7.6
19	1586	4.7	336	7.3	1629	7.1
20	1672	5.2	335	6.9	1715	6.6
21	1758	6.0	330	6.4	1801	6.2
22	1844	7.8	335	6.2	1887	6.3
23	1930	8.0	338	6.2	1973	6.3
24	2016	7.9	343	6.2	2059	6.1
25	2102	7.9	348	5.9	2146	5.8
26	2189	7.9	353	5.6	2232	5.5
27	2275	8.0	356	5.6	2318	5.6
28	2361	8.0	356	5.4	2404	5.2

JULY 24 1981
1332 ADT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 8

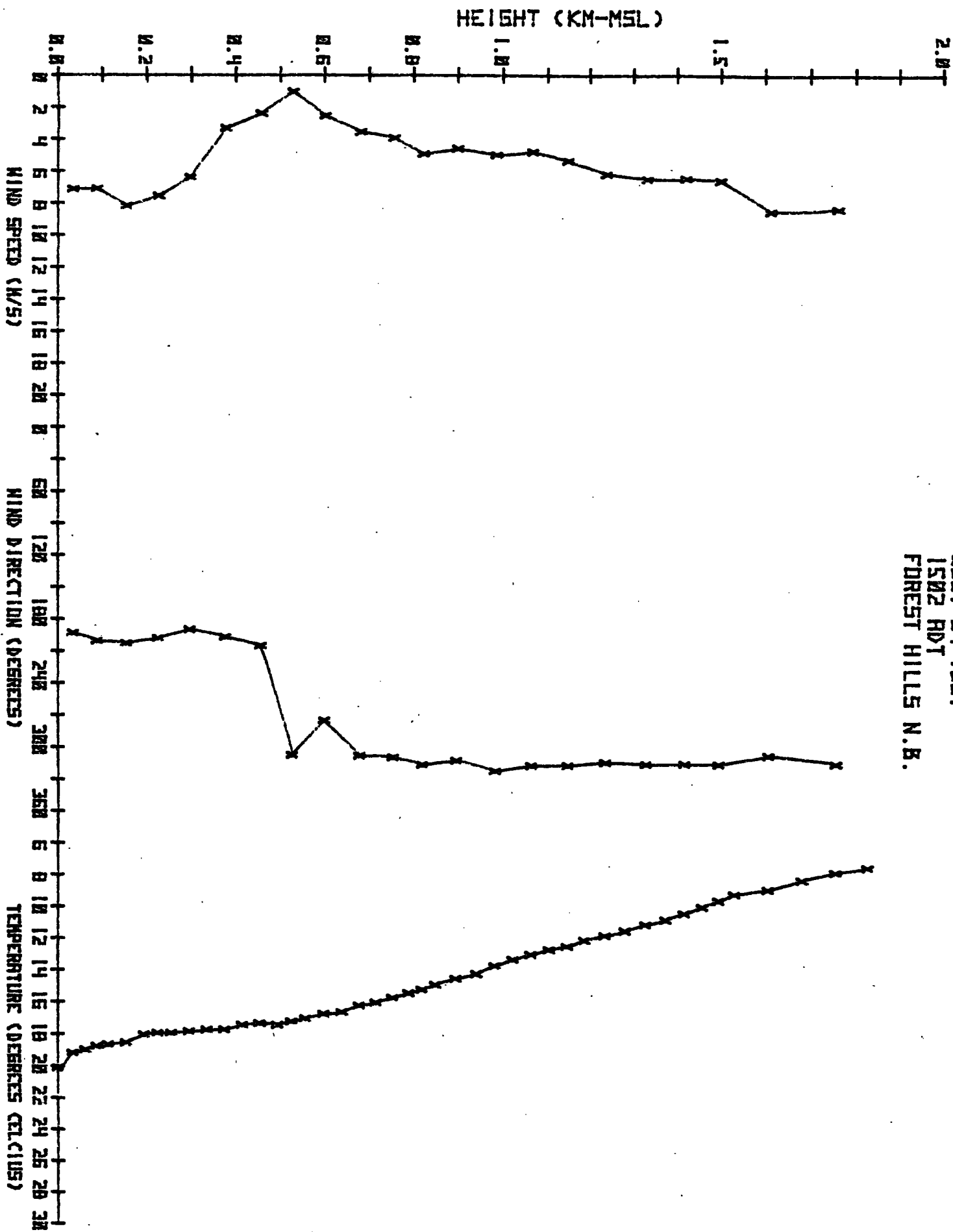
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 6

DATE JULY 24 1981 TIME 1502 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	7			20.2	SURFACE CONDITIONS	
1	35	7.1	194	19.2	63	19.0
2	88	7.1	201	18.8	114	18.7
3	155	8.2	203	18.6	196	18.1
4	227	7.6	198	18.0	258	18.0
5	298	6.4	190	17.9	338	17.8
6	378	3.3	198	17.8	418	17.5
7	458	2.4	206	17.4	498	17.5
8	529	1.0	308	17.3	561	17.1
9	601	2.5	276	16.8	642	16.7
10	681	3.6	309	16.3	719	16.1
11	756	3.9	310	15.8	793	15.5
12	822	4.9	317	15.3	852	15.0
13	899	4.6	313	14.6	945	14.3
14	986	5.0	323	13.8	1027	13.4
15	1068	4.8	318	13.1	1109	12.8
16	1150	5.4	318	12.6	1191	12.2
17	1238	6.2	315	11.9	1285	11.6
18	1331	6.5	317	11.2	1378	10.9
19	1420	6.5	317	10.5	1462	10.1
20	1499	6.6	317	9.7	1536	9.3
21	1613	8.5	309	9.0	1689	8.4
22	1761	8.4	316	7.9	1833	7.6
23	1866	6.8	334	7.2	1899	6.7
24	1932	7.1	333	6.3	1965	5.9
25	2030	9.2	322	5.6	2094	5.2
26	2147	8.5	329	4.9	2199	4.5
27	2250	8.2	339	4.2	2300	3.9
28	2323	8.2	354	3.7	2347	3.3

JULY 24 1981
 1502 ADT
 FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 10

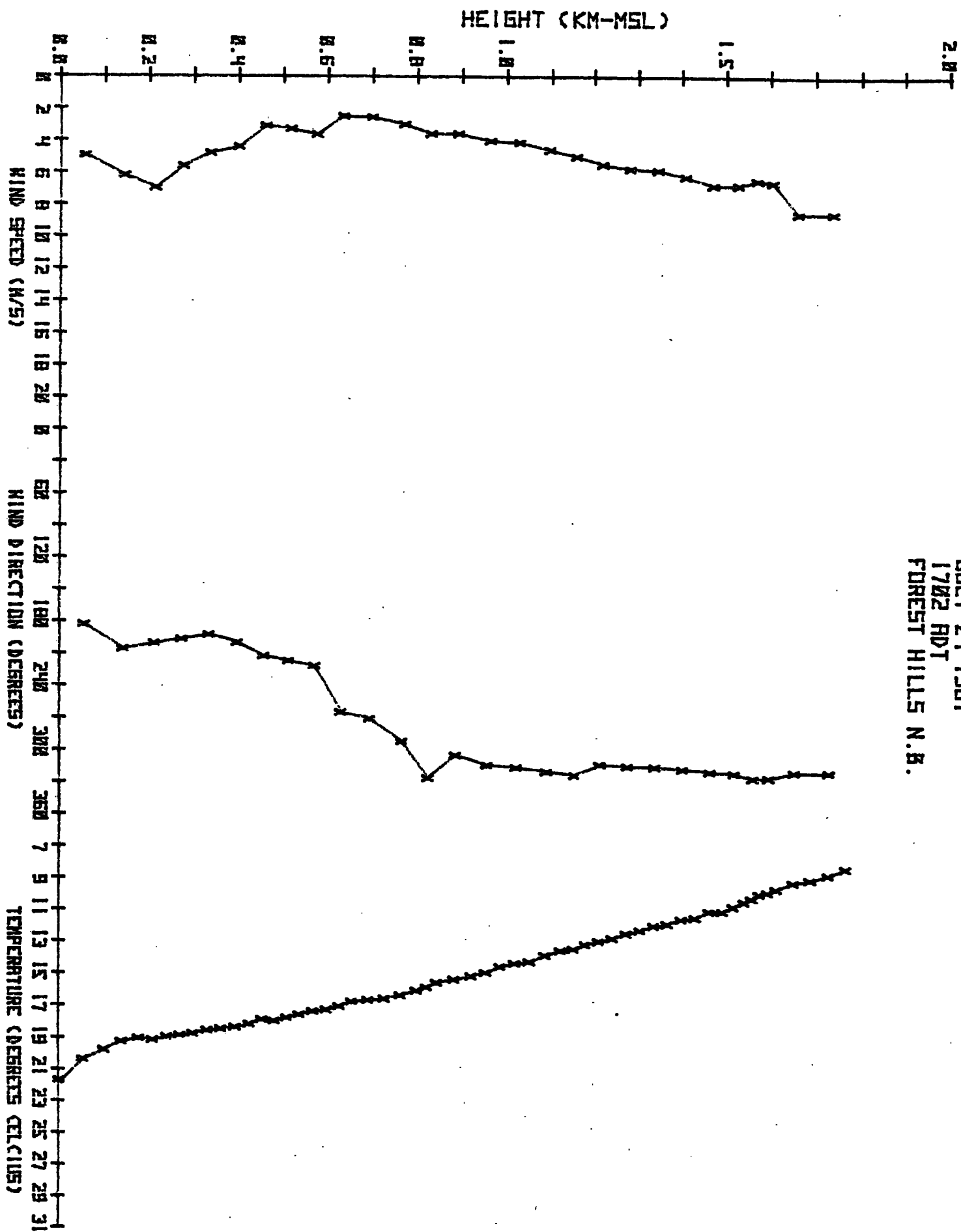
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 7

DATE JULY 24 1981 TIME 1702 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	8			21.8	SURFACE CONDITIONS	
1	56	5.0	183	20.4	104	19.8
2	143	6.2	206	19.3	182	19.1
3	214	7.0	201	19.2	246	19.0
4	276	5.6	197	18.9	306	18.8
5	337	4.8	193	18.6	368	18.5
6	401	4.4	200	18.4	433	18.2
7	461	3.1	213	17.9	489	18.0
8	517	3.3	218	17.8	545	17.6
9	576	3.6	222	17.4	606	17.3
10	634	2.5	265	17.1	662	16.8
11	698	2.5	272	16.7	735	16.6
12	771	3.0	293	16.4	807	16.1
13	830	3.6	327	15.9	852	15.6
14	891	3.6	305	15.4	929	15.2
15	962	4.0	315	15.0	995	14.6
16	1028	4.1	317	14.4	1061	14.3
17	1096	4.6	321	13.9	1131	13.6
18	1159	5.0	324	13.5	1188	13.2
19	1219	5.5	314	13.0	1251	12.8
20	1282	5.8	315	12.5	1314	12.3
21	1345	5.9	316	12.0	1377	11.9
22	1408	6.2	318	11.6	1440	11.5
23	1471	6.8	320	11.1	1503	11.1
24	1528	6.8	322	10.8	1553	10.5
25	1570	6.5	326	10.3	1587	10.0
26	1605	6.6	326	9.9	1624	9.7
27	1662	8.5	321	9.3	1700	9.1
28	1738	8.5	321	8.8	1776	8.4

JULY 24 1981
1702 RDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 2 - 12

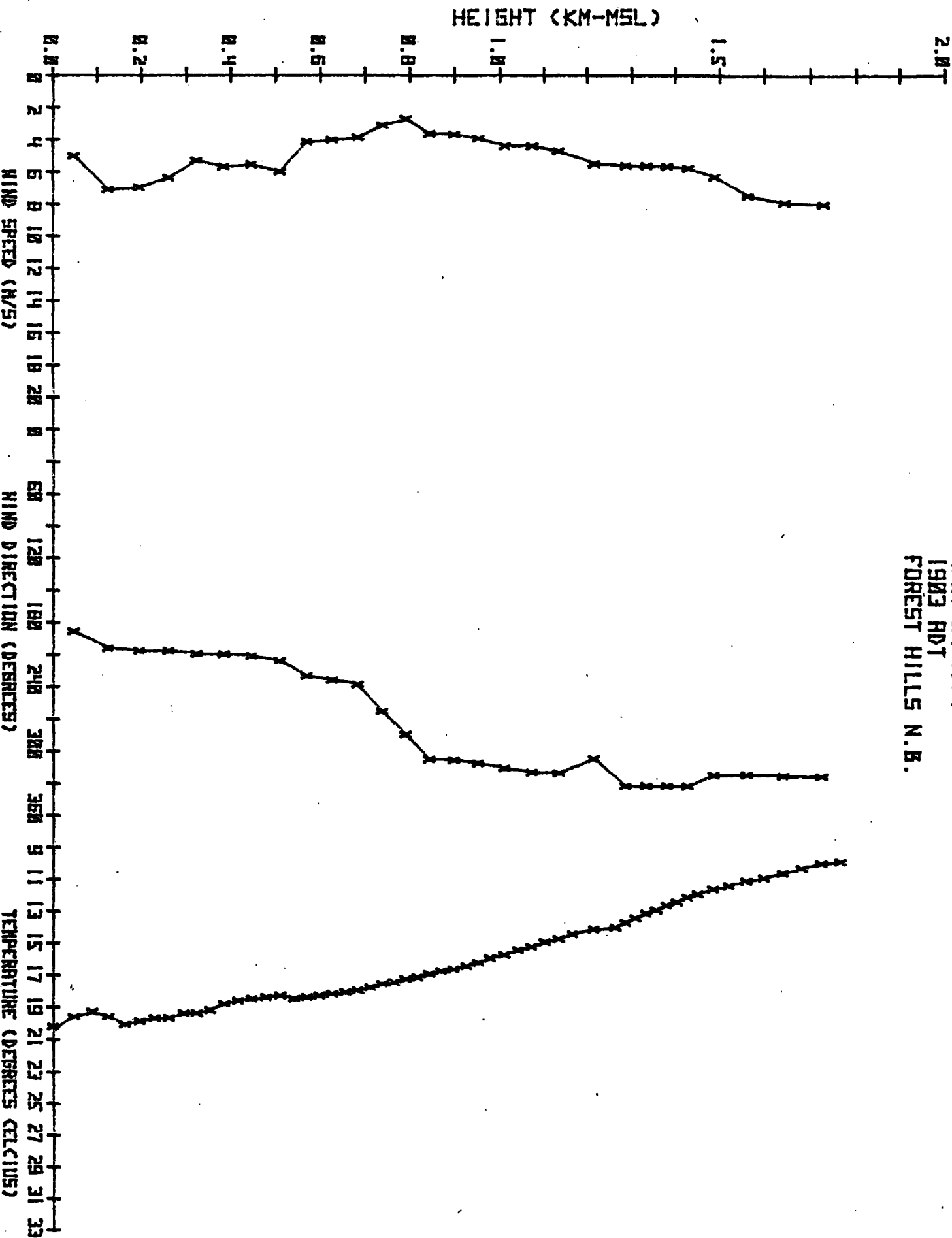
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 1

DATE JULY 24 1981 TIME 1903 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	6			20.3	SURFACE CONDITIONS	
1	47	5.0	189	19.6	87	19.3
2	124	7.1	205	19.6	160	20.1
3	193	7.0	207	19.9	227	19.7
4	260	6.4	207	19.7	293	19.4
5	322	5.3	210	19.4	351	19.2
6	383	5.7	210	18.8	414	18.6
7	446	5.5	212	18.5	477	18.4
8	509	6.0	217	18.3	541	18.5
9	569	4.1	231	18.4	597	18.3
10	626	4.0	235	18.2	655	18.1
11	683	3.9	239	18.0	711	17.8
12	738	3.1	264	17.6	764	17.5
13	791	2.7	285	17.3	817	17.2
14	843	3.6	308	17.0	870	16.8
15	898	3.7	309	16.7	926	16.5
16	953	4.0	312	16.3	980	16.0
17	1011	4.4	317	15.8	1042	15.5
18	1073	4.4	321	15.3	1103	15.0
19	1134	4.7	321	14.8	1165	14.5
20	1215	5.5	308	14.2	1264	14.1
21	1287	5.6	334	13.8	1310	13.5
22	1333	5.6	333	13.2	1357	13.0
23	1381	5.7	334	12.7	1405	12.5
24	1428	5.8	334	12.2	1452	12.0
25	1488	6.3	324	11.7	1524	11.5
26	1563	7.5	323	11.2	1603	11.0
27	1645	8.0	325	10.7	1687	10.4
28	1729	8.1	325	10.1	1770	10.0

JULY 24 1981
1903 RDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 3 - 2

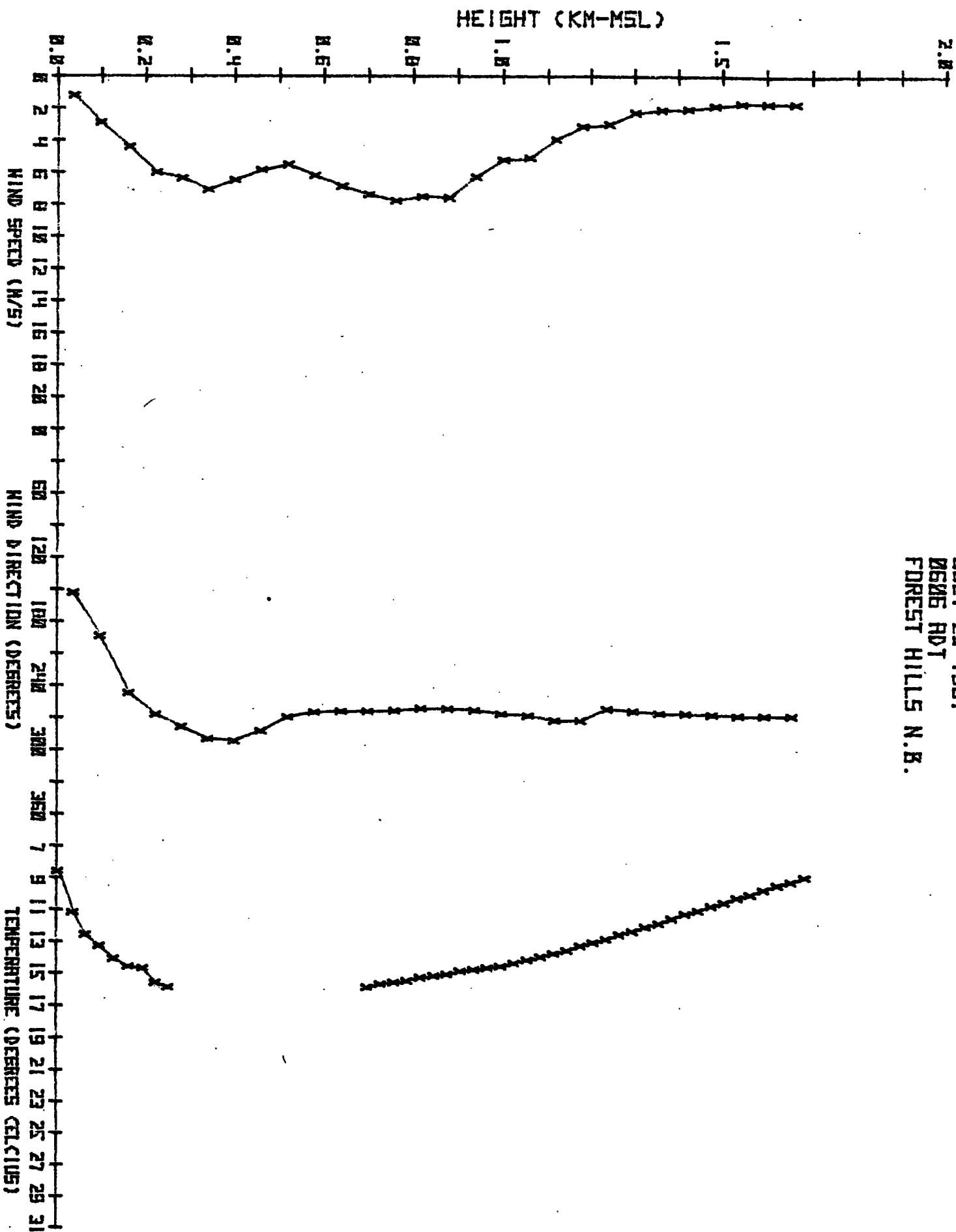
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 1

DATE JULY 25 1981 TIME 0606 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	9			8.7	SURFACE CONDITIONS	
1	37	1.2	153	11.2	66	12.6
2	98	2.9	194	13.3	129	14.1
3	162	4.4	247	14.6	195	14.7
4	224	6.0	267	15.6	252	15.9
5	281	6.4	279	M		
6	340	7.1	290	M		
7	400	6.5	292	M		
8	460	5.9	283	M		
9	520	5.5	270	M		
10	580	6.2	265	M		
11	640	6.9	264	M		
12	700	7.4	264	15.9	730	15.7
13	760	7.8	264	15.6	790	15.5
14	820	7.5	262	15.3	851	15.2
15	881	7.6	262	15.1	911	14.9
16	941	6.3	264	14.8	971	14.7
17	1001	5.2	267	14.6	1031	14.4
18	1061	5.1	269	14.2	1091	14.0
19	1121	4.0	273	13.8	1151	13.6
20	1181	3.2	273	13.3	1211	13.1
21	1241	3.0	262	12.9	1271	12.6
22	1302	2.3	264	12.4	1332	12.1
23	1362	2.1	266	11.9	1392	11.6
24	1422	2.1	267	11.3	1452	11.1
25	1482	1.9	268	10.8	1512	10.6
26	1542	1.7	269	10.3	1572	10.1
27	1602	1.7	269	9.8	1632	9.5
28	1662	1.7	269	9.3	1692	9.0

JULY 25 1981
 0606 PDT
 FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 3 - 4

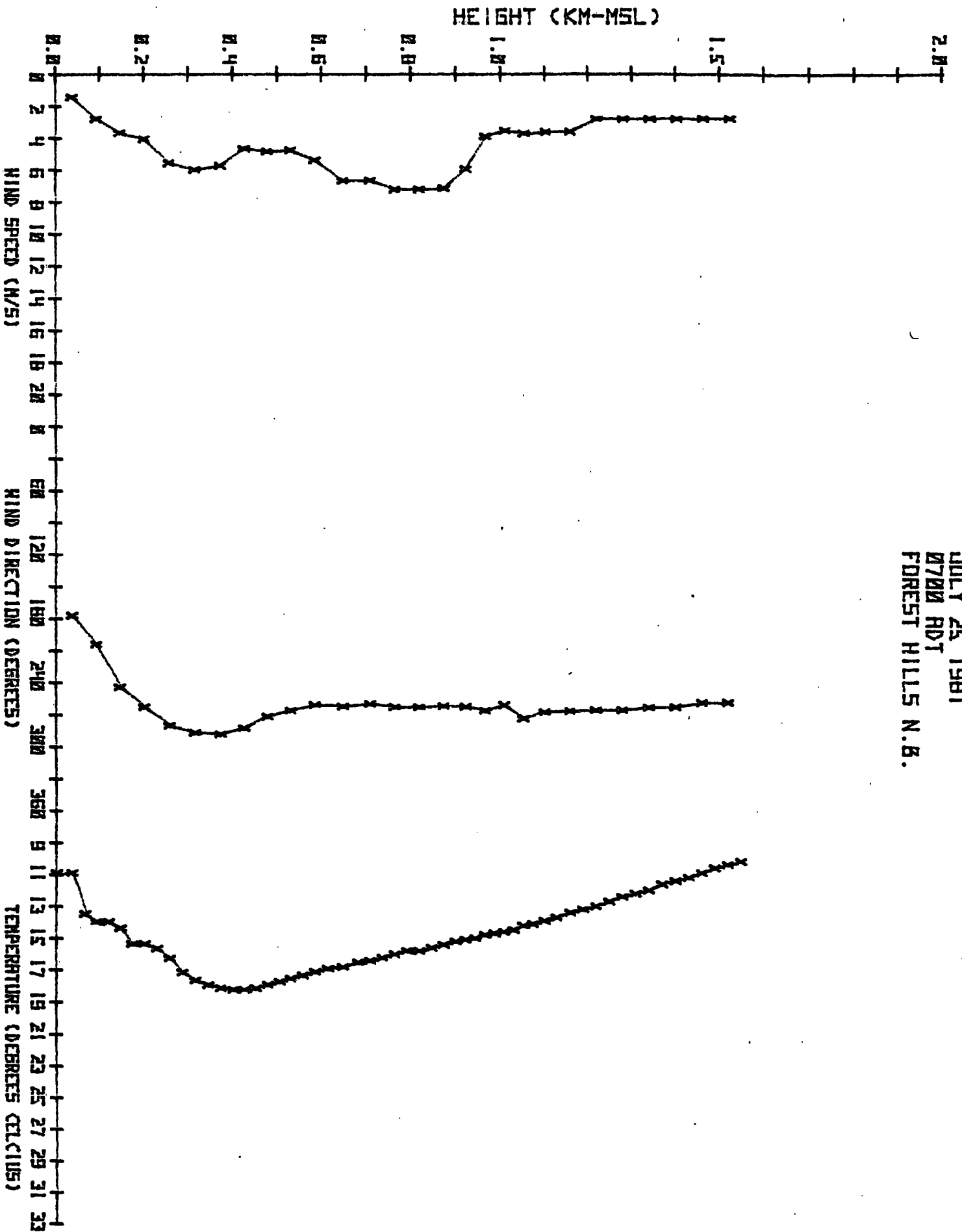
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 2

DATE JULY 25 1981 TIME 0700 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	9			11.0	SURFACE CONDITIONS	
1	38	1.5	177	10.9	66	13.5
2	93	2.8	204	14.0	120	14.0
3	146	3.7	245	14.4	173	15.4
4	201	4.1	263	15.4	228	15.7
5	257	5.6	280	16.3	286	17.2
6	315	6.0	287	17.7	344	18.0
7	373	5.7	289	18.2	402	18.3
8	427	4.7	283	18.3	452	18.2
9	478	4.8	272	18.0	505	17.8
10	531	4.7	267	17.6	558	17.4
11	586	5.4	262	17.2	614	17.0
12	648	6.7	263	16.9	682	16.6
13	709	6.7	261	16.5	736	16.3
14	764	7.2	264	16.1	792	15.9
15	820	7.2	264	15.9	848	15.7
16	875	7.2	263	15.5	901	15.3
17	923	6.0	264	15.2	945	15.1
18	967	3.9	267	14.9	989	14.8
19	1010	3.6	262	14.7	1032	14.6
20	1054	3.7	275	14.3	1076	14.2
21	1103	3.6	269	14.0	1129	13.8
22	1160	3.6	268	13.5	1190	13.3
23	1221	2.8	267	13.1	1251	12.8
24	1281	2.8	267	12.5	1312	12.3
25	1342	2.8	264	12.1	1372	11.7
26	1403	2.8	264	11.5	1433	11.3
27	1464	2.8	260	11.0	1494	10.7
28	1524	2.8	260	10.5	1555	10.3

JULY 25, 1981
0700 EDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 3 - 6

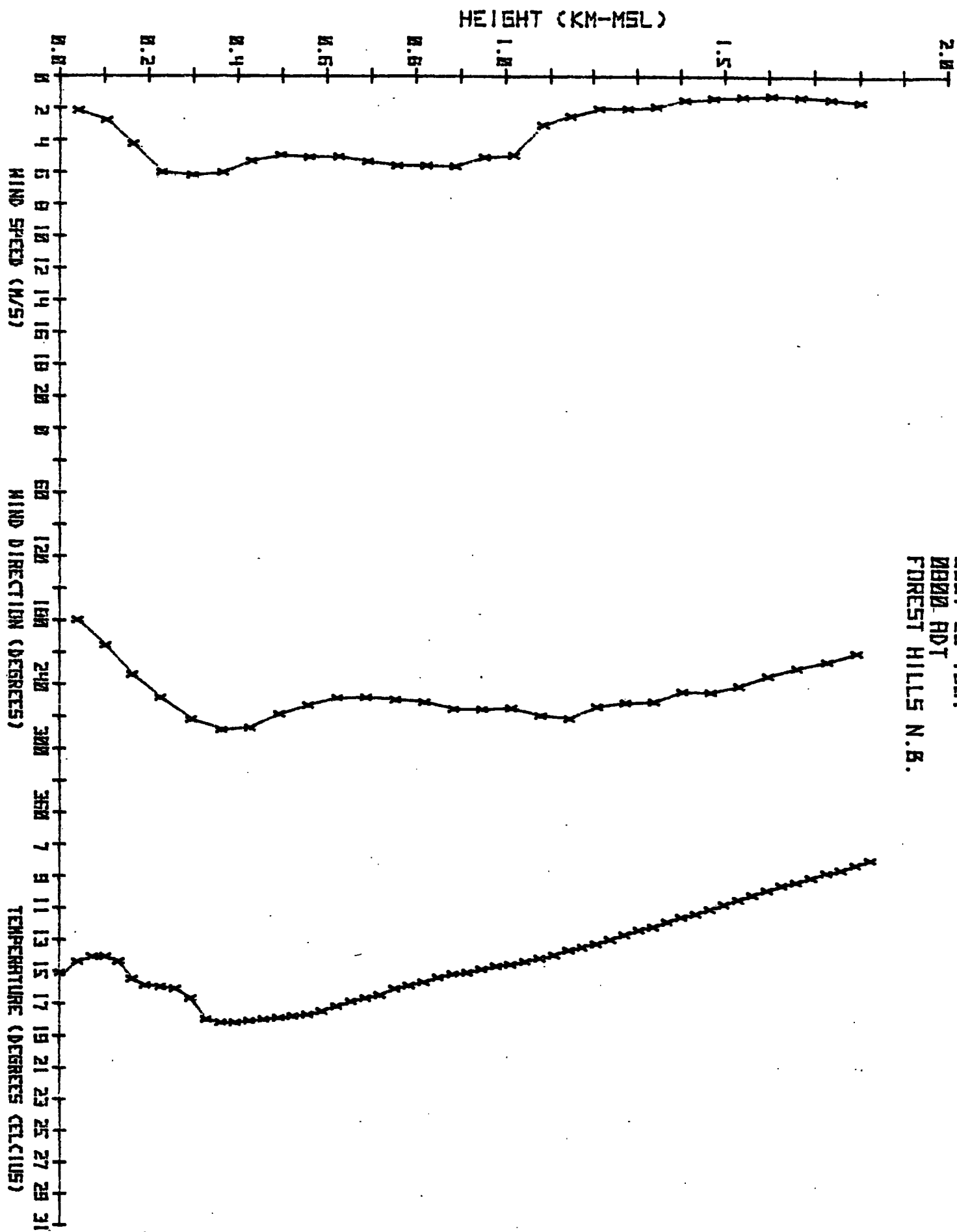
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 3

DATE JULY 25 1981 TIME 0800 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	8			15.2	SURFACE CONDITIONS	
1	42	2.2	180	14.4	75	14.1
2	105	2.8	204	14.1	134	14.4
3	164	4.3	231	15.5	194	15.9
4	229	6.0	253	16.0	263	16.1
5	298	6.2	273	16.7	333	18.0
6	366	6.0	283	18.2	399	18.2
7	431	5.3	281	18.1	464	18.0
8	497	4.9	268	17.9	529	17.8
9	562	5.1	260	17.7	594	17.5
10	627	5.0	253	17.2	660	16.9
11	692	5.4	253	16.7	725	16.5
12	758	5.6	255	16.1	790	15.9
13	823	5.6	257	15.7	855	15.4
14	888	5.6	263	15.2	921	15.1
15	953	5.1	264	14.9	986	14.7
16	1018	4.9	263	14.6	1051	14.4
17	1084	3.0	270	14.2	1116	14.0
18	1149	2.5	273	13.7	1181	13.5
19	1214	2.0	261	13.3	1246	13.0
20	1279	2.0	258	12.7	1312	12.4
21	1344	1.9	257	12.2	1377	11.9
22	1409	1.5	247	11.6	1442	11.4
23	1475	1.4	248	11.1	1507	10.8
24	1540	1.3	242	10.5	1572	10.2
25	1605	1.2	232	9.9	1638	9.6
26	1670	1.3	225	9.4	1703	9.1
27	1735	1.4	219	8.8	1768	8.6
28	1801	1.6	211	8.3	1833	8.0

JULY 25 1981
0800. PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 3 - 8

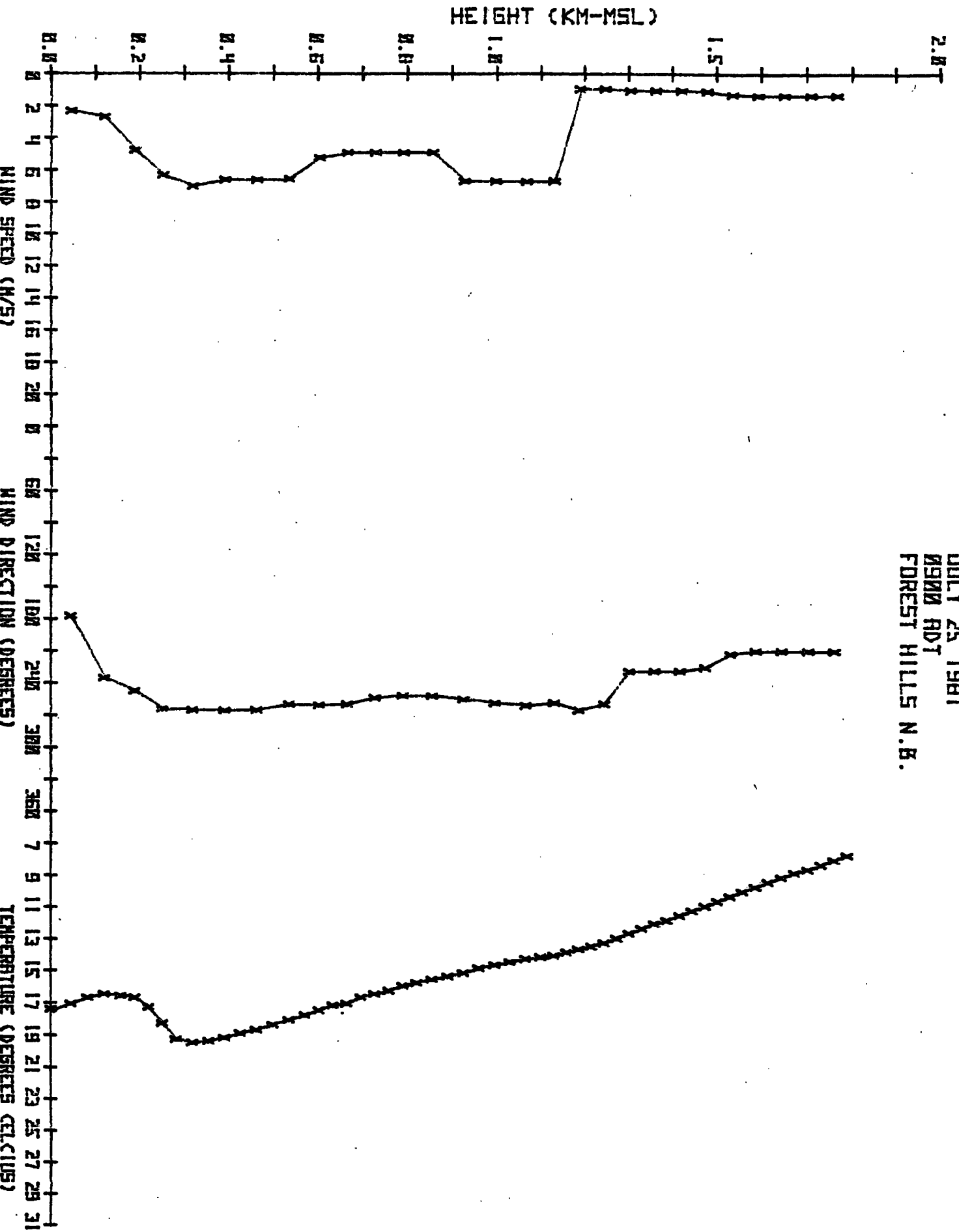
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 4

DATE JULY 25 1981 TIME 0900 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
					SURFACE CONDITIONS	
0	7			17.5		
1	45	2.3	178	17.1	84	16.7
2	121	2.7	236	16.5	158	16.6
3	190	4.8	248	16.7	222	17.3
4	252	6.3	265	18.3	283	19.3
5	319	7.0	266	19.5	355	19.4
6	392	6.6	266	19.2	428	18.9
7	464	6.7	266	18.7	500	18.4
8	536	6.6	261	18.1	572	17.8
9	604	5.3	261	17.5	635	17.2
10	666	4.9	260	17.1	698	16.7
11	729	4.9	255	16.5	760	16.3
12	792	4.9	253	16.0	823	15.8
13	858	4.9	253	15.6	893	15.4
14	928	6.7	256	15.2	963	14.9
15	998	6.7	260	14.7	1033	14.5
16	1068	6.8	262	14.3	1103	14.2
17	1132	6.7	259	14.1	1161	13.9
18	1189	1.0	266	13.7	1218	13.5
19	1247	1.0	260	13.3	1276	13.0
20	1305	1.1	230	12.7	1334	12.4
21	1363	1.1	230	12.1	1392	11.9
22	1420	1.1	230	11.6	1449	11.3
23	1478	1.1	226	11.0	1507	10.7
24	1536	1.3	214	10.4	1565	10.1
25	1594	1.4	211	9.8	1623	9.5
26	1651	1.4	211	9.2	1680	8.9
27	1709	1.4	211	8.7	1738	8.4
28	1767	1.4	211	8.1	1796	7.8

JULY 25 1981
 9900 RDT
 FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 3 - 10

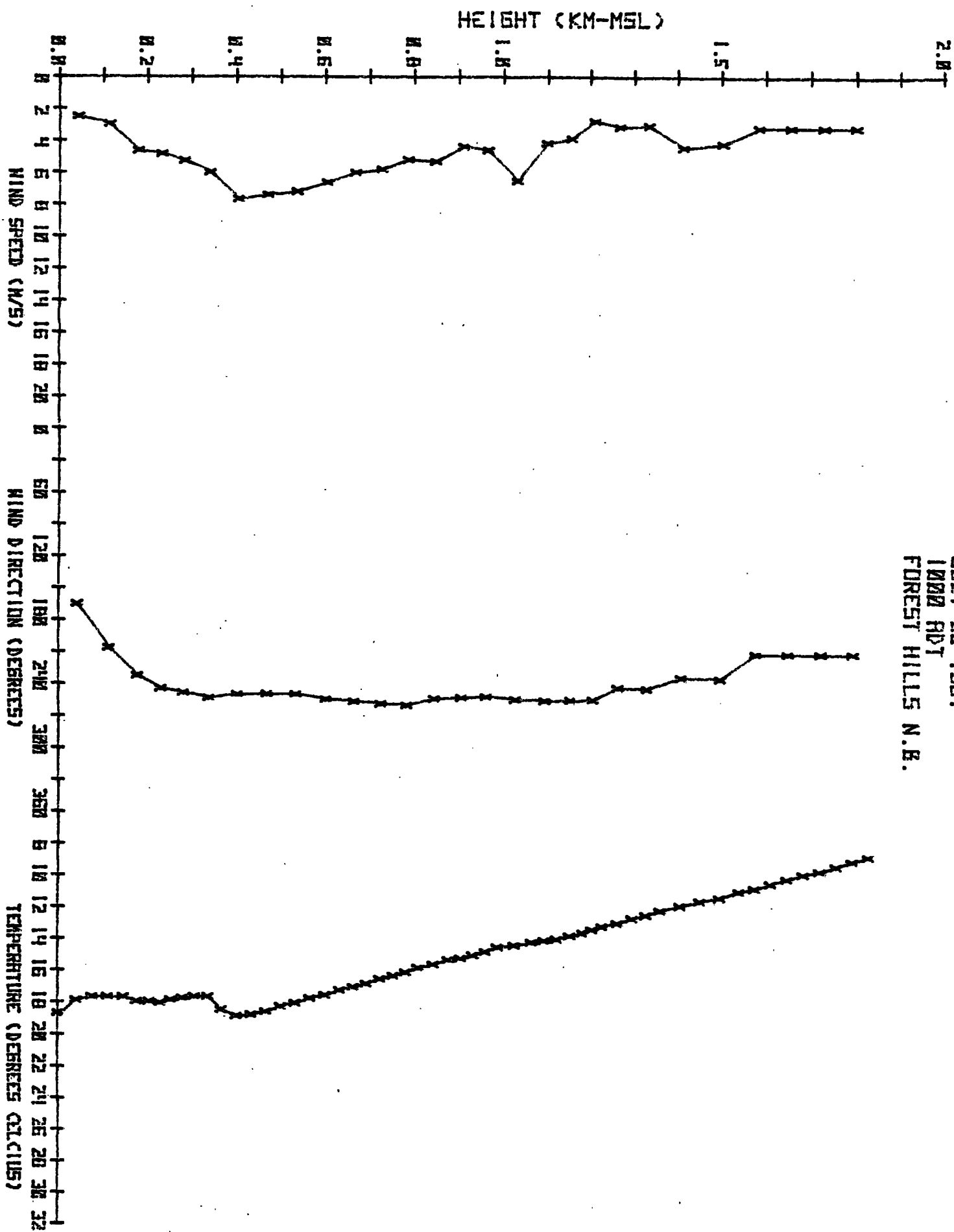
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 5

DATE JULY 25 1981 TIME 1000 ADT

BLINE 310.9 GPA -0.4 BRG 17

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	7			18.8	SURFACE CONDITIONS	
1	42	2.5	166	17.9	78	17.7
2	114	3.0	207	17.7	150	17.7
3	179	4.6	233	18.0	208	18.0
4	232	4.8	245	18.1	256	17.9
5	283	5.3	249	17.8	310	17.7
6	341	6.0	254	17.7	371	18.5
7	405	7.7	251	18.9	439	18.8
8	472	7.4	250	18.6	504	18.3
9	538	7.2	251	18.1	571	17.8
10	604	6.6	255	17.6	637	17.3
11	668	6.0	258	17.1	698	16.9
12	728	5.8	260	16.6	758	16.4
13	786	5.2	261	16.2	814	15.9
14	848	5.3	255	15.7	883	15.4
15	910	4.4	254	15.3	938	15.1
16	965	4.6	253	14.9	993	14.6
17	1032	6.5	256	14.5	1070	14.3
18	1099	4.2	257	14.2	1127	14.1
19	1157	3.9	256	13.9	1186	13.7
20	1209	2.8	256	13.5	1232	13.3
21	1267	3.1	245	13.1	1302	12.8
22	1334	3.1	246	12.6	1366	12.3
23	1412	4.4	235	12.0	1457	11.7
24	1503	4.2	237	11.5	1548	11.1
25	1584	3.2	213	10.9	1620	10.6
26	1656	3.2	213	10.3	1692	10.0
27	1728	3.2	213	9.8	1764	9.5
28	1800	3.2	213	9.2	1836	8.9

JULY 25 1981
1000 RPT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 3 - 12

STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 6

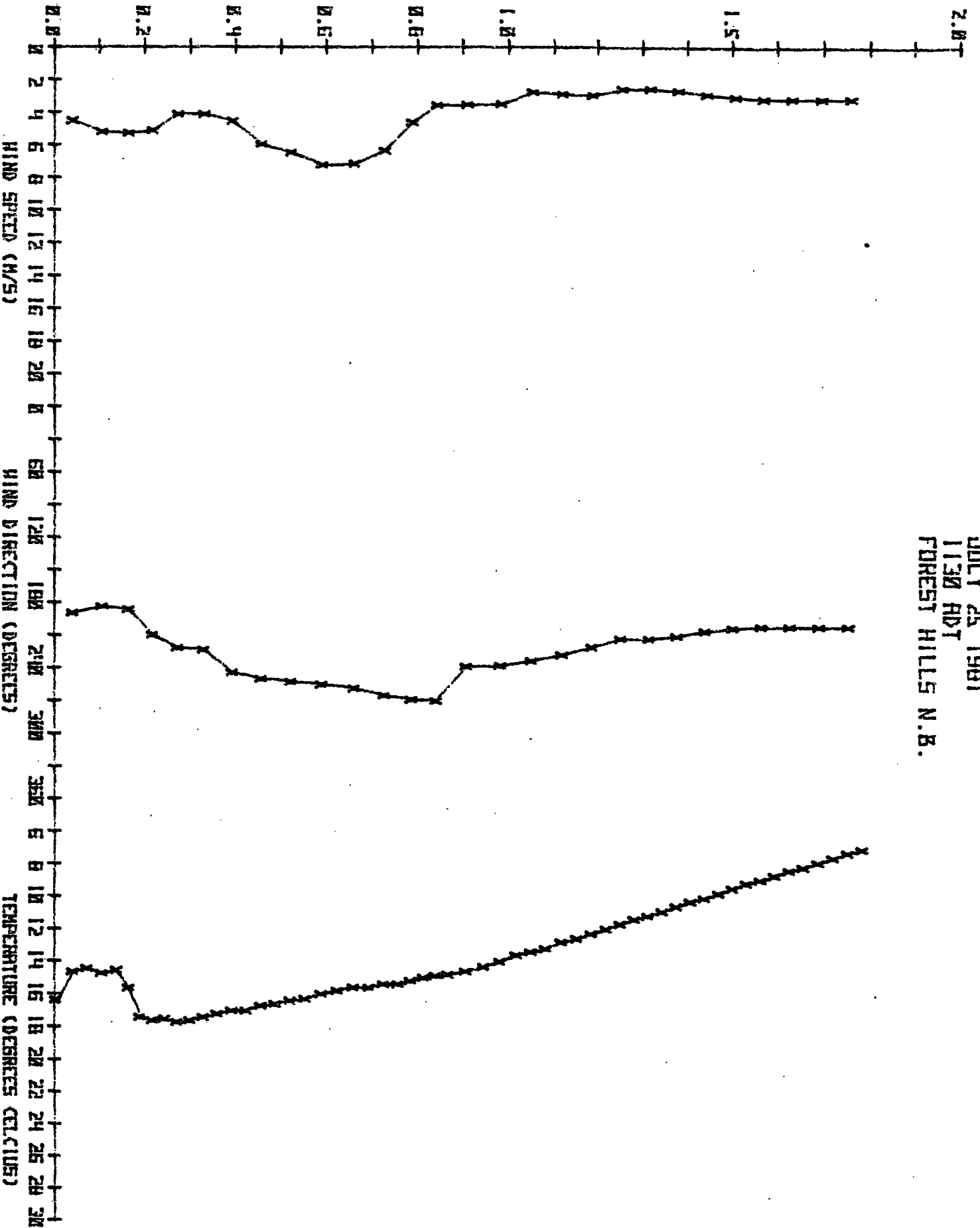
DATE JULY 25 1981 TIME 1130 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	8			16.5	SURFACE CONDITIONS	
1	40	4.5	190	14.7	72	14.5
2	105	5.2	184	14.8	138	14.6
3	164	5.3	187	15.7	190	17.5
4	217	5.1	210	17.7	245	17.6
5	273	4.1	223	17.8	301	17.7
6	331	4.1	224	17.5	361	17.3
7	393	4.5	245	17.1	425	17.1
8	458	6.0	251	16.8	490	16.7
9	523	6.5	254	16.5	556	16.4
10	591	7.3	256	16.1	627	15.9
11	662	7.2	260	15.7	697	15.7
12	729	6.4	266	15.5	761	15.5
13	788	4.6	270	15.3	816	15.1
14	843	3.6	271	15.0	870	14.9
15	909	3.5	239	14.7	948	14.4
16	984	3.5	239	14.1	1020	13.7
17	1053	2.8	234	13.5	1085	13.3
18	1120	2.9	229	12.9	1155	12.7
19	1188	3.0	222	12.4	1222	12.1
20	1254	2.6	214	11.8	1285	11.5
21	1317	2.6	214	11.3	1348	11.0
22	1380	2.7	212	10.7	1411	10.4
23	1443	2.9	207	10.2	1474	9.9
24	1506	3.1	205	9.6	1537	9.3
25	1569	3.2	203	9.1	1600	8.8
26	1632	3.2	203	8.5	1663	8.3
27	1695	3.2	203	8.0	1726	7.7
28	1758	3.2	203	7.4	1790	7.2

JULY 25 1981
1130 ADT
FOREST HILLS N.B.

HEIGHT (KM-MSL)



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 2

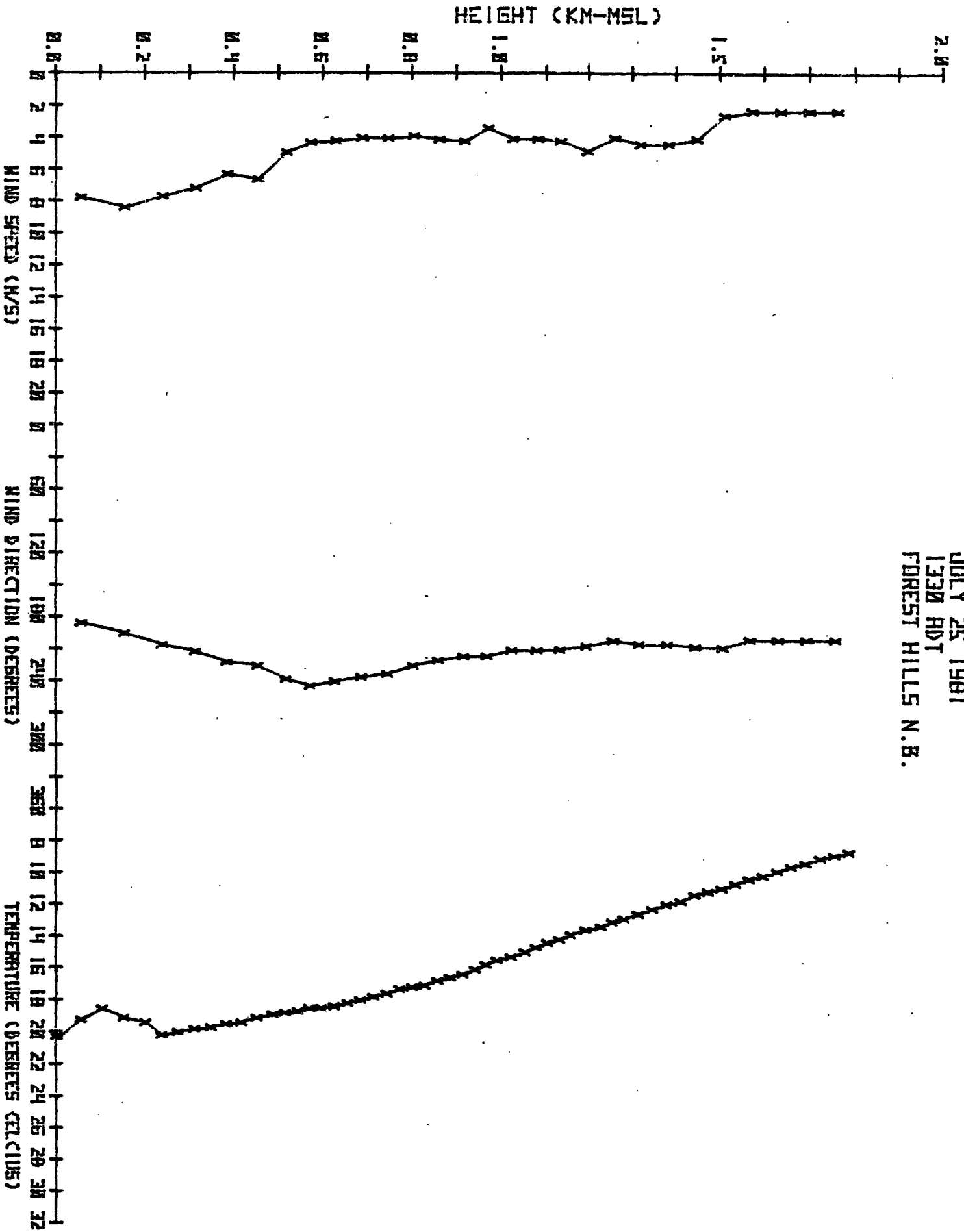
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 7

DATE JULY 25 1981 TIME 1330 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	9			20.4	SURFACE CONDITIONS	
1	57	7.8	187	19.3	106	18.6
2	154	8.4	196	19.2	202	19.5
3	240	7.7	207	20.3	277	20.1
4	314	7.2	214	19.9	351	19.8
5	386	6.4	224	19.6	420	19.5
6	456	6.7	227	19.2	491	19.0
7	519	5.0	239	18.9	547	18.8
8	574	4.4	246	18.6	601	18.6
9	630	4.3	242	18.5	660	18.3
10	689	4.1	238	18.1	718	17.9
11	747	4.1	235	17.7	776	17.4
12	805	4.0	227	17.3	833	17.2
13	862	4.2	222	16.9	890	16.7
14	918	4.3	218	16.5	946	16.2
15	971	3.5	218	15.9	996	15.6
16	1027	4.1	212	15.4	1058	15.1
17	1084	4.1	212	14.8	1109	14.5
18	1136	4.3	212	14.3	1163	14.0
19	1198	4.9	208	13.7	1233	13.5
20	1260	4.1	203	13.2	1286	13.0
21	1318	4.5	207	12.7	1351	12.4
22	1384	4.5	207	12.1	1416	11.9
23	1448	4.2	209	11.5	1479	11.3
24	1511	2.7	210	11.1	1542	10.8
25	1574	2.4	202	10.5	1605	10.3
26	1636	2.4	202	10.0	1668	9.7
27	1699	2.4	202	9.5	1731	9.2
28	1762	2.4	202	9.0	1794	8.8

JULY 25 1981
1330 ADT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 4

STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 8

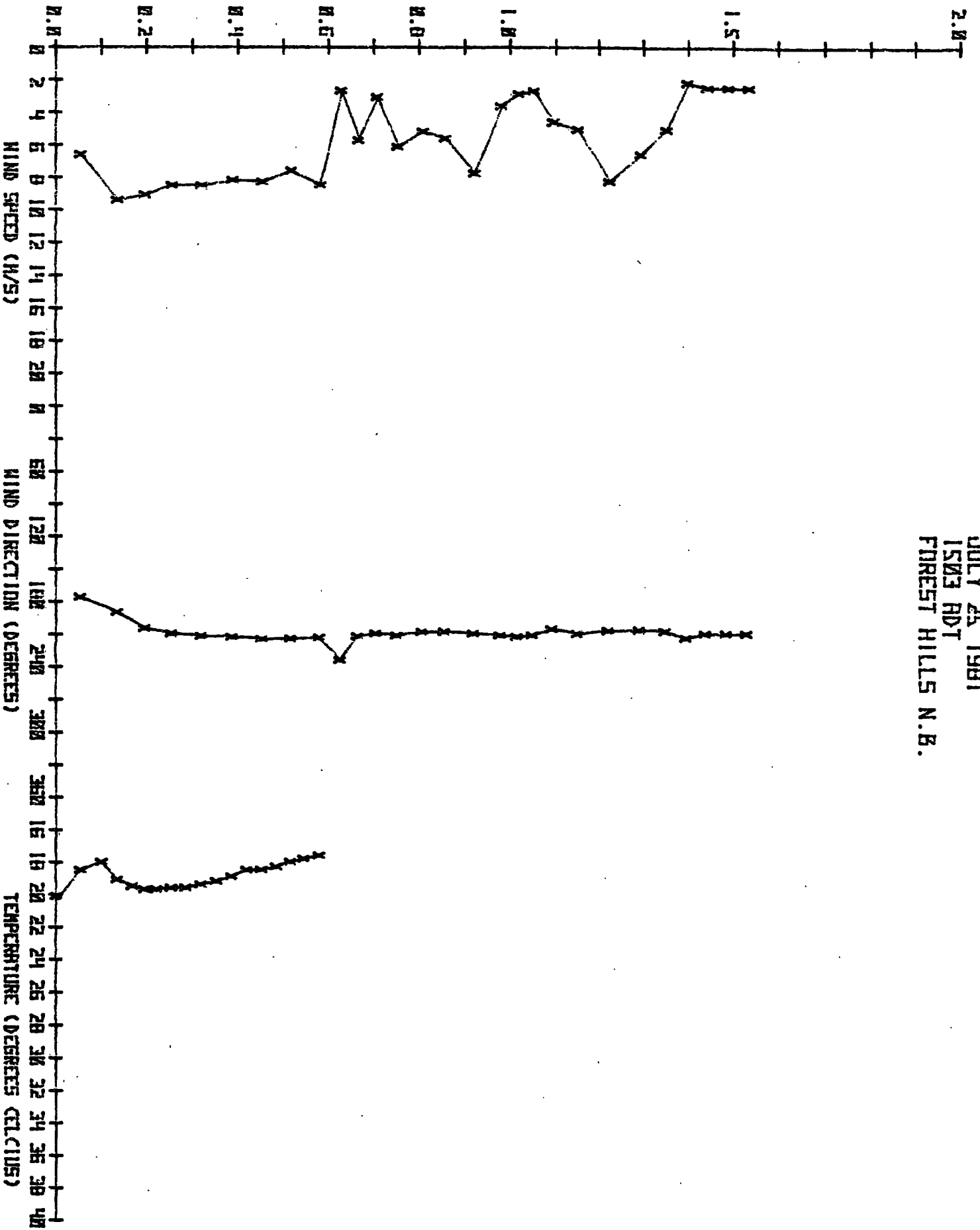
DATE JULY 25 1981 TIME 1503 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	7			20.2	SURFACE CONDITIONS	
1	55	6.6	176	18.5	102	18.0
2	135	9.4	190	19.1	169	19.5
3	196	9.1	205	19.7	222	19.7
4	255	8.5	210	19.6	288	19.6
5	321	8.5	212	19.4	355	19.2
6	388	8.2	213	18.9	422	18.5
7	455	8.3	215	18.5	488	18.3
8	518	7.6	214	18.0	548	17.8
9	582	8.5	213	17.6	616	M
10	628	2.7	234	M		
11	666	5.7	212	M		
12	707	3.1	209	M		
13	752	6.1	212	M		
14	808	5.2	208	M		
15	858	5.6	208	M		
16	922	7.8	210	M		
17	980	3.6	211	M		
18	1017	2.9	212	M		
19	1052	2.7	211	M		
20	1095	4.6	205	M		
21	1152	5.1	210	M		
22	1223	8.2	207	M		
23	1293	6.6	206	M		
24	1351	5.1	208	M		
25	1398	2.2	214	M		
26	1441	2.5	210	M		
27	1488	2.5	210	M		
28	1534	2.5	210	M		

JULY 25 1981
1503 ADT
FOREST HILLS N.B.

HEIGHT (KM-MSL)



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 6

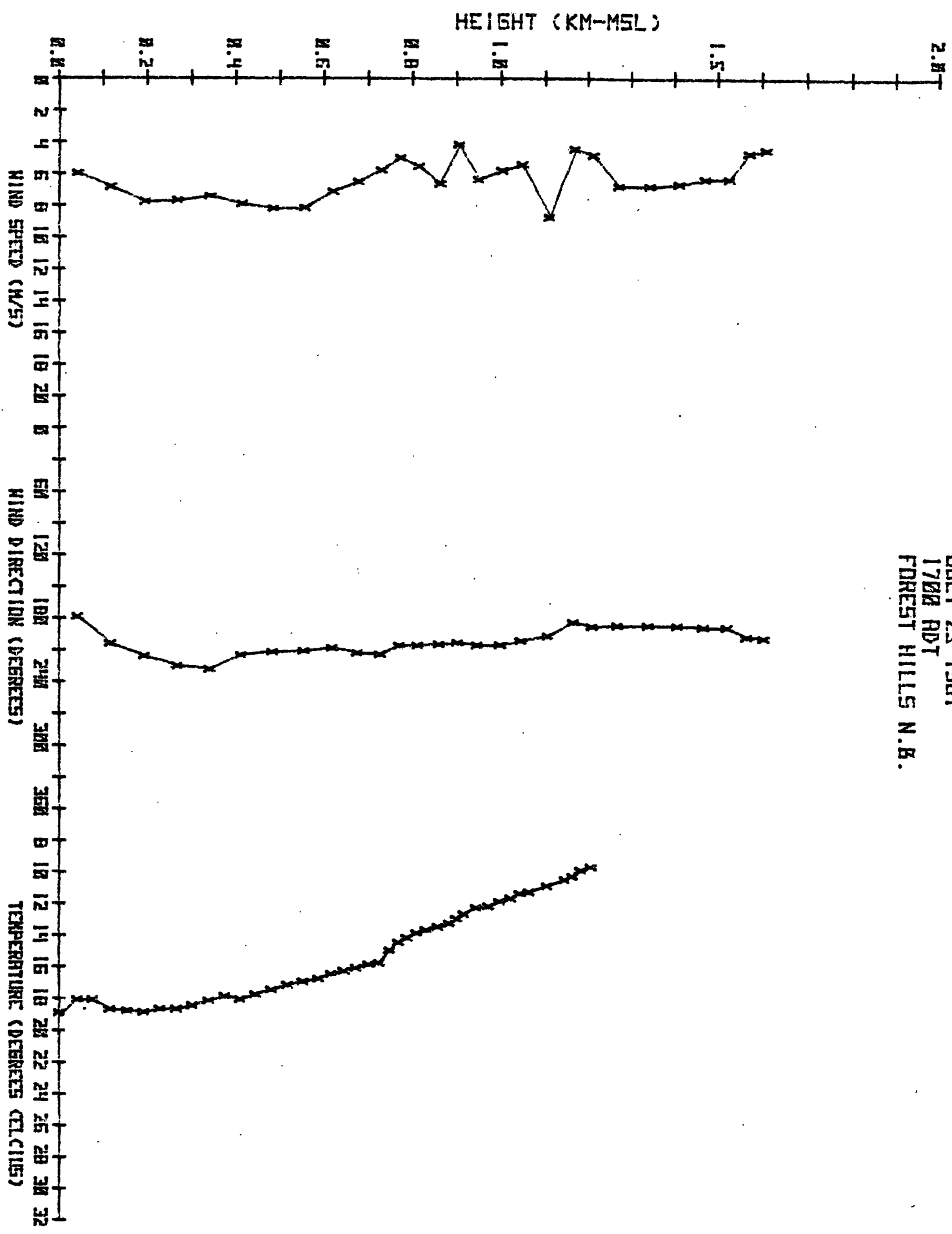
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 9

DATE JULY 25 1981 TIME 1700 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	7			19.0	SURFACE CONDITIONS	
1	42	6.0	179	18.1	78	18.1
2	117	6.9	204	18.7	157	18.8
3	194	7.8	216	18.9	231	18.7
4	269	7.7	225	18.7	306	18.5
5	343	7.4	229	18.2	379	17.9
6	414	7.9	215	18.1	449	17.8
7	485	8.2	212	17.5	522	17.2
8	557	8.2	211	17.0	592	16.8
9	621	7.1	208	16.5	650	16.3
10	678	6.5	213	16.1	706	15.9
11	729	5.8	215	15.8	753	15.0
12	773	5.0	206	14.5	792	14.2
13	814	5.5	206	13.9	836	13.7
14	863	6.6	205	13.5	889	13.3
15	905	4.2	204	13.0	921	12.7
16	949	6.4	206	12.3	977	12.2
17	1003	5.8	205	11.9	1028	11.7
18	1049	5.4	201	11.4	1070	11.3
19	1111	8.8	197	10.9	1151	10.5
20	1170	4.5	184	10.3	1189	9.9
21	1213	4.8	188	9.7	1237	M
22	1272	6.8	187	M		
23	1343	6.8	187	M		
24	1410	6.7	188	M		
25	1470	6.3	189	M		
26	1526	6.3	189	M		
27	1571	4.7	198	M		
28	1610	4.5	199	M		

JULY 25 1981
 1700 RD1
 FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 8

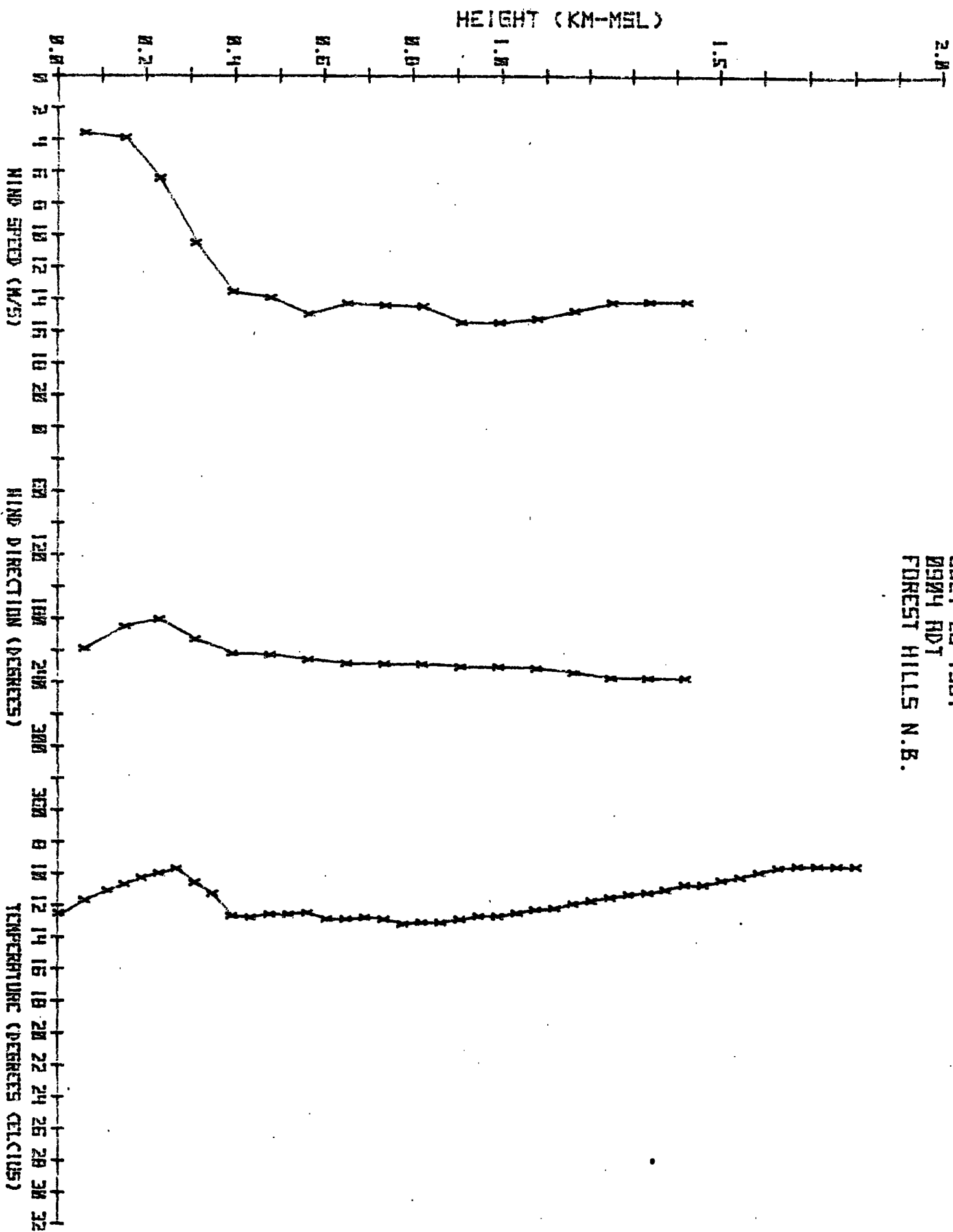
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 1

DATE JULY 26 1981 TIME 0904 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	9			12.6	SURFACE CONDITIONS	
1	62	3.6	209	11.7	115	11.1
2	153	3.9	188	10.7	191	10.3
3	231	6.4	181	10.0	272	9.7
4	312	10.5	200	10.6	353	11.3
5	396	13.5	213	12.7	439	12.8
6	482	13.9	214	12.6	525	12.6
7	567	14.9	219	12.5	610	12.9
8	653	14.3	223	12.9	696	12.8
9	739	14.4	223	12.9	782	13.2
10	825	14.4	223	13.1	868	13.1
11	911	15.4	226	12.9	953	12.7
12	996	15.4	226	12.7	1039	12.5
13	1082	15.2	227	12.3	1125	12.2
14	1168	14.7	231	11.9	1211	11.7
15	1254	14.2	236	11.5	1297	11.3
16	1340	14.2	236	11.2	1383	11.0
17	1425	14.2	236	10.7	1468	10.7
18	1511			10.4	1554	10.2
19	1597			9.9	1640	9.6
20	1683			9.5	1726	9.5
21	1769			9.5	1812	9.5
22	1855			9.4	1898	9.3
23	1940			9.3	1983	9.4
24	2026			9.3	2069	9.1
25	2112			8.9	2155	8.9
26	2198			8.7	2241	8.8
27	2284			8.9	2327	8.7
28	2370			8.6	2413	8.6

JULY 26 1981
 0904 EDT
 FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 10

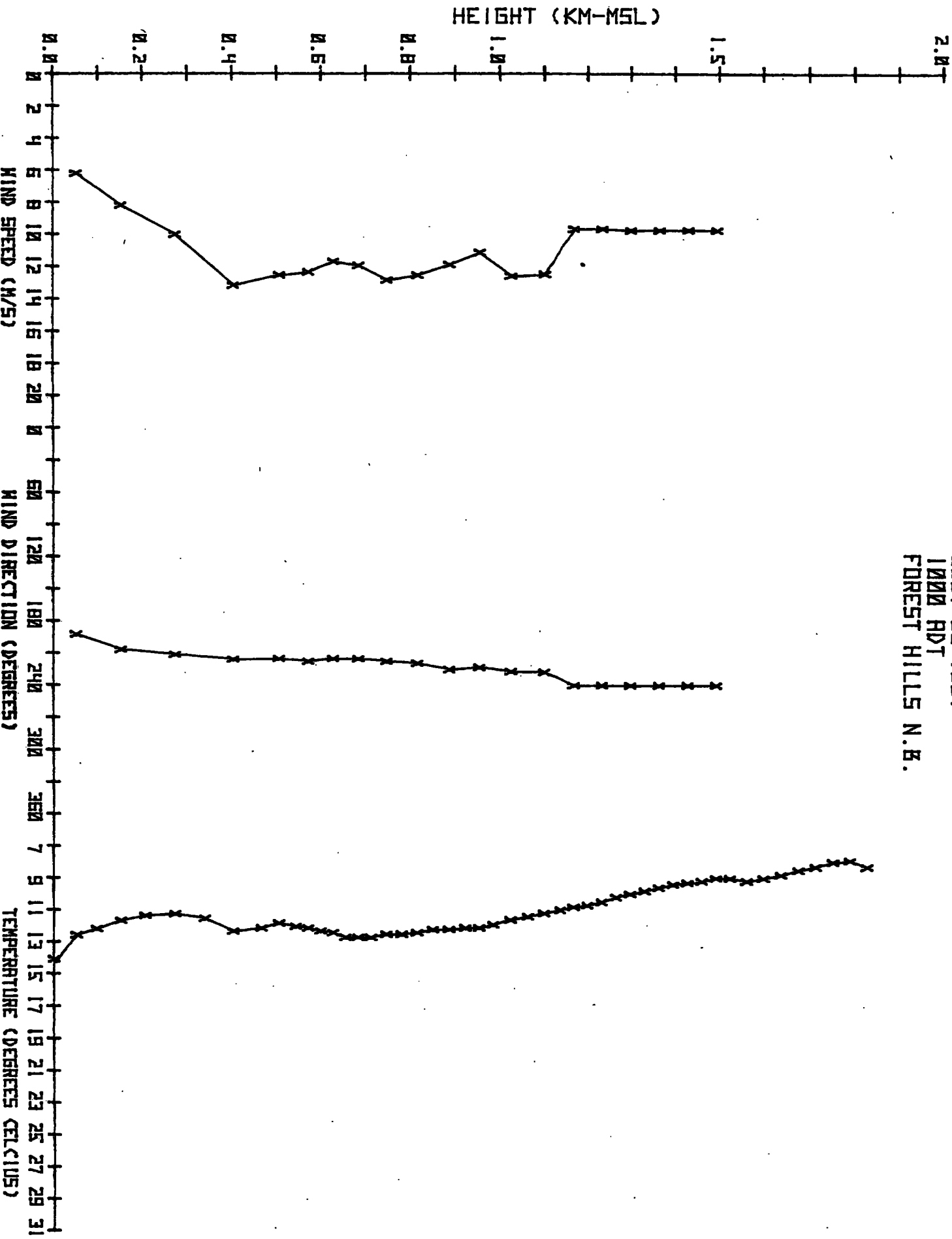
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 2

DATE JULY 26 1981 TIME 1000 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	8			14.2	SURFACE CONDITIONS	
1	53	6.2	193	12.6	97	12.2
2	152	8.2	207	11.7	207	11.4
3	274	10.0	212	11.3	341	11.6
4	405	13.2	217	12.4	468	12.2
5	507	12.5	216	11.9	545	12.1
6	573	12.3	219	12.2	601	12.4
7	628	11.7	216	12.5	656	12.8
8	685	11.9	216	12.8	714	12.8
9	748	12.9	219	12.6	783	12.6
10	817	12.5	221	12.5	852	12.3
11	888	11.9	226	12.3	924	12.2
12	955	11.1	224	12.2	987	12.0
13	1026	12.6	228	11.7	1065	11.5
14	1101	12.5	229	11.3	1138	11.1
15	1169	9.7	241	10.9	1201	10.8
16	1234	9.7	241	10.6	1266	10.3
17	1299	9.8	241	10.1	1332	9.9
18	1364	9.8	241	9.7	1397	9.5
19	1430	9.8	241	9.4	1462	9.3
20	1495	9.8	241	9.1	1527	9.1
21	1565			9.3	1603	9.1
22	1641			8.9	1679	8.6
23	1717			8.4	1755	8.1
24	1793			8.0	1831	8.4
25	1869			8.3	1907	8.2
26	1945			8.2	1983	8.3
27	2021			8.2	2059	8.2
28	2097			8.0	2135	7.7

JULY 26 1981
1000 RDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 4 - 12

STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 3

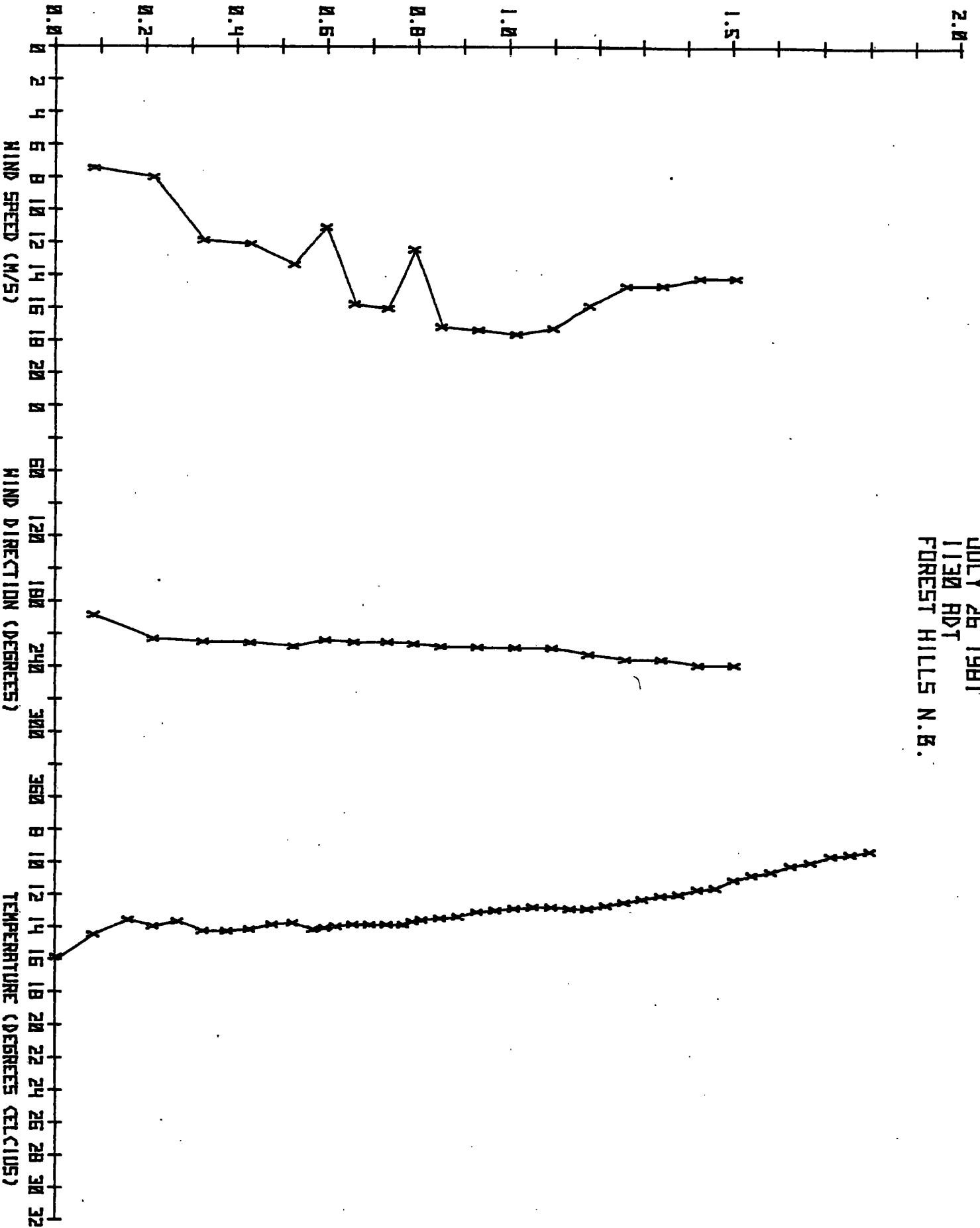
DATE JULY 26 1981 TIME 1130 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	9			16.0	SURFACE CONDITIONS	
1	85	7.5	193	14.5	161	13.6
2	216	8.0	215	14.0	272	13.7
3	326	11.9	218	14.3	381	14.3
4	431	12.1	219	14.2	481	13.9
5	527	13.4	222	13.8	572	14.2
6	597	11.1	216	14.1	622	14.0
7	660	15.8	218	13.9	698	13.9
8	735	16.1	218	13.9	771	13.9
9	792	12.4	220	13.7	812	13.6
10	852	17.2	222	13.5	892	13.4
11	933	17.4	222	13.1	975	13.0
12	1016	17.6	223	12.9	1057	12.8
13	1098	17.3	223	12.8	1139	12.9
14	1180	15.9	229	12.9	1222	12.7
15	1263	14.7	233	12.5	1304	12.3
16	1345	14.6	234	12.1	1386	12.0
17	1427	14.2	239	11.7	1468	11.6
18	1510	14.2	239	11.1	1551	10.8
19	1594			10.6	1636	10.2
20	1679			10.0	1722	9.6
21	1765			9.5	1808	9.3
22	1851			9.2	1893	9.1
23	1936			9.0	1979	8.7
24	2022			8.6	2065	8.6
25	2107			8.6	2150	8.6
26	2193			8.4	2236	8.3
27	2279			8.3	2322	8.5
28	2364			8.5	2407	8.3

JULY 26 1981
 1130 HDT
 FOREST HILLS N.B.

HEIGHT (KM-MSL)



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 5 - 2

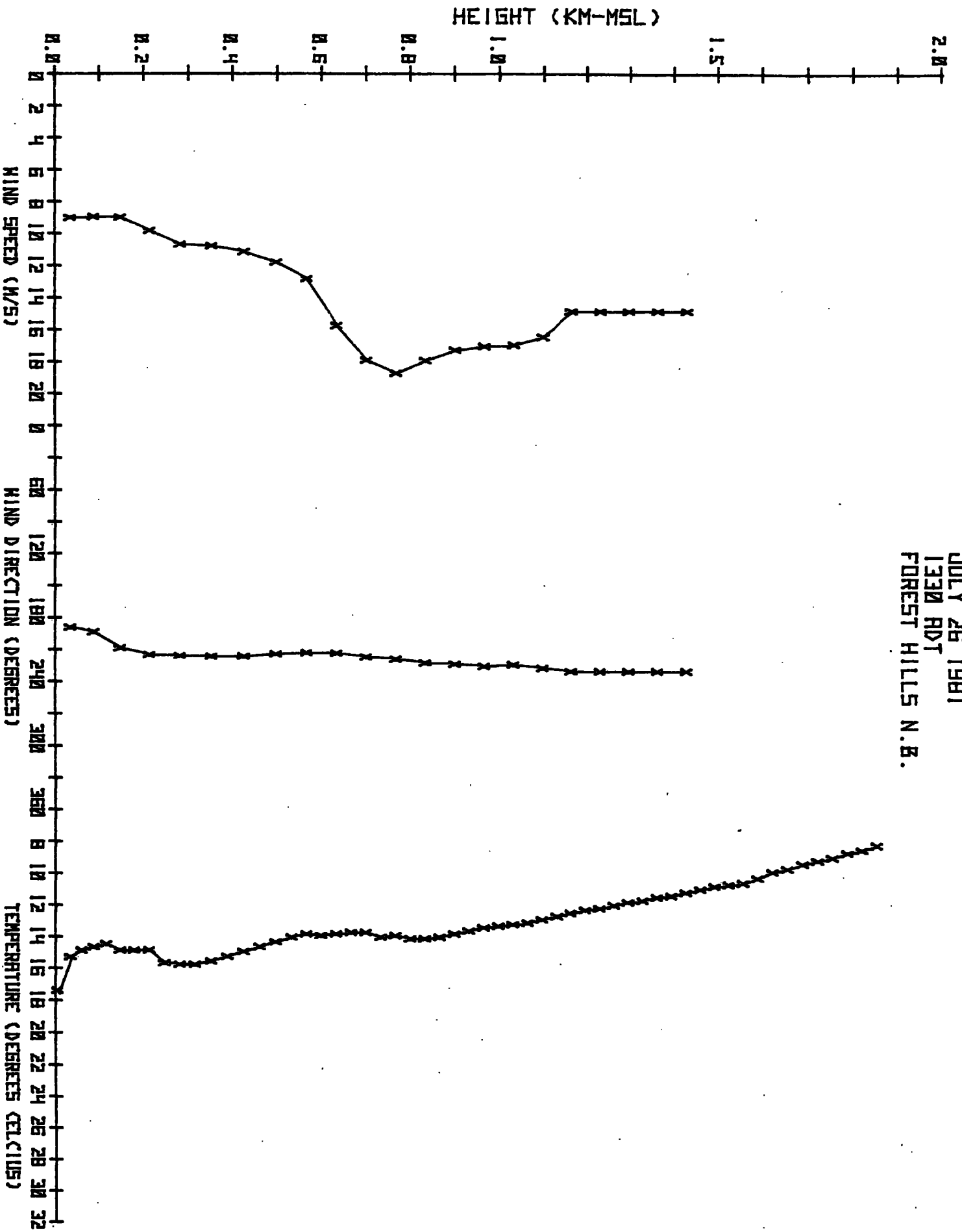
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 4

DATE JULY 26 1981 TIME 1330 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	10			17.5		
1	34	9.0	189	15.3	59	14.9
2	87	9.0	194	14.7	115	14.5
3	147	9.0	209	14.9	178	14.9
4	213	9.8	216	14.9	247	15.7
5	281	10.7	216	15.8	316	15.8
6	352	10.8	217	15.6	389	15.3
7	426	11.1	217	15.0	462	14.7
8	498	11.8	215	14.4	534	14.1
9	567	12.8	214	13.9	600	14.0
10	634	15.8	214	13.9	667	13.8
11	701	17.9	218	13.8	734	14.1
12	768	18.7	220	14.0	801	14.2
13	834	17.9	224	14.2	867	14.1
14	900	17.3	225	13.9	933	13.7
15	966	17.1	226	13.5	999	13.4
16	1032	17.0	225	13.3	1066	13.2
17	1099	16.5	228	13.0	1132	12.8
18	1165	14.9	231	12.6	1198	12.4
19	1231	14.9	231	12.3	1264	12.1
20	1297	14.9	231	11.9	1330	11.8
21	1363	14.9	231	11.6	1396	11.5
22	1429	14.9	231	11.3	1463	11.1
23	1496			10.9	1529	10.8
24	1562			10.7	1595	10.4
25	1628			10.0	1661	9.8
26	1694			9.5	1727	9.3
27	1760			9.1	1793	8.8
28	1826			8.6	1859	8.3

JULY 26 1981
1330 RDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 5 - 4

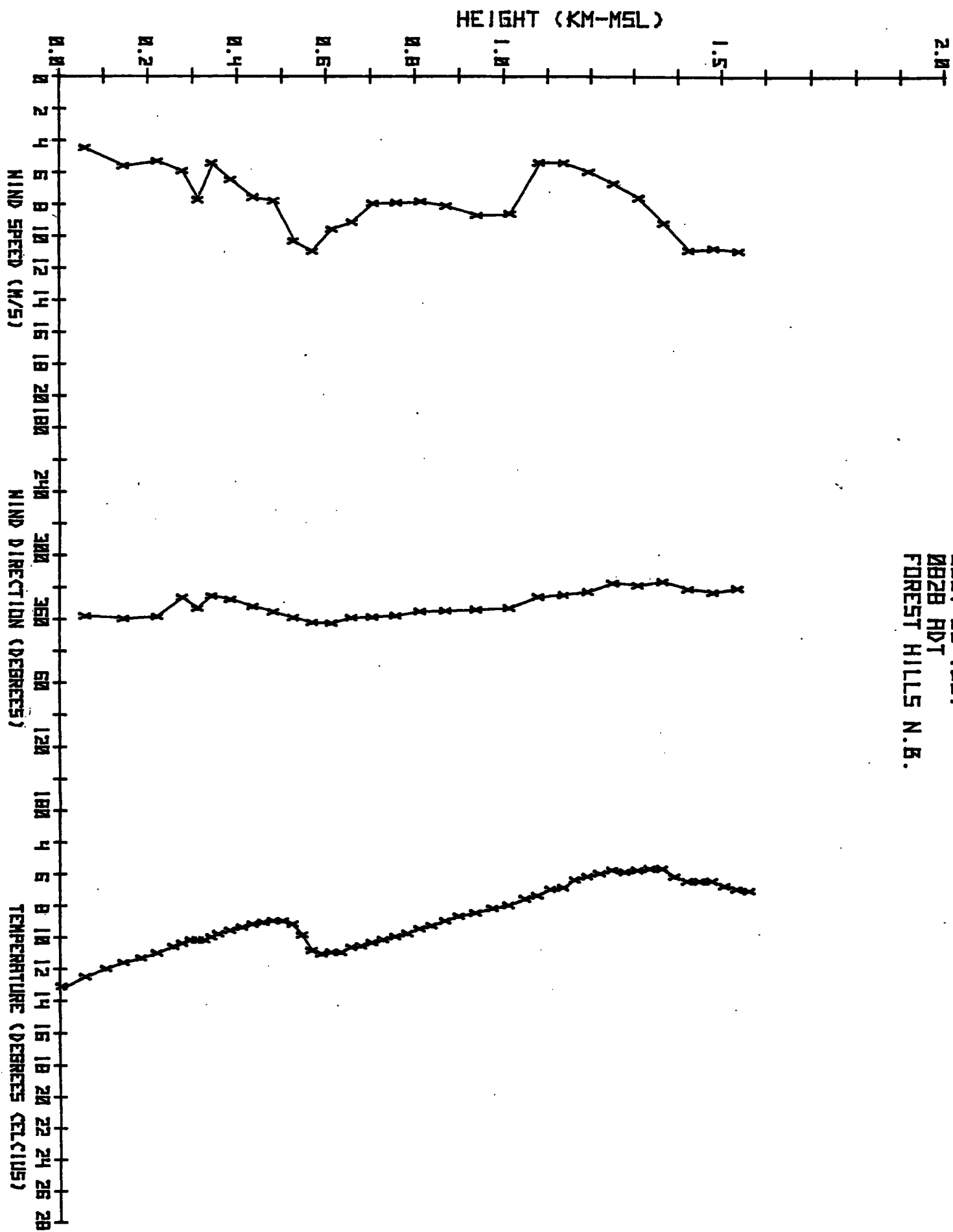
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 1

DATE JULY 28 1981 TIME 0828 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	10			13.2	SURFACE CONDITIONS	
1	57	4.5	357	12.5	104	12.0
2	144	5.6	360	11.6	184	11.3
3	221	5.3	358	11.0	257	10.6
4	277	5.9	340	10.4	297	10.2
5	312	7.8	350	10.2	328	10.2
6	344	5.5	339	10.0	359	9.8
7	386	6.5	342	9.6	413	9.4
8	437	7.6	349	9.2	461	9.1
9	483	7.8	354	9.0	505	9.0
10	527	10.4	359	9.2	549	9.9
11	571	11.0	4	10.9	593	11.1
12	615	9.6	4	11.0	636	11.0
13	659	9.2	359	10.7	682	10.6
14	706	8.0	359	10.4	731	10.2
15	758	8.0	357	10.0	786	9.8
16	813	7.9	353	9.5	841	9.3
17	871	8.1	353	9.0	901	8.7
18	939	8.7	352	8.5	978	8.2
19	1015	8.6	350	8.0	1051	7.6
20	1080	5.4	340	7.4	1109	7.0
21	1138	5.4	338	6.9	1166	6.4
22	1195	6.0	335	6.2	1224	6.0
23	1253	6.7	327	5.8	1281	5.9
24	1310	7.6	329	5.8	1339	5.7
25	1368	9.2	325	5.7	1396	6.2
26	1425	10.9	333	6.5	1454	6.5
27	1482	10.8	336	6.5	1511	6.8
28	1540	11.0	332	7.0	1569	7.1

JULY 28 1981
MB28 RD
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 5 - 6

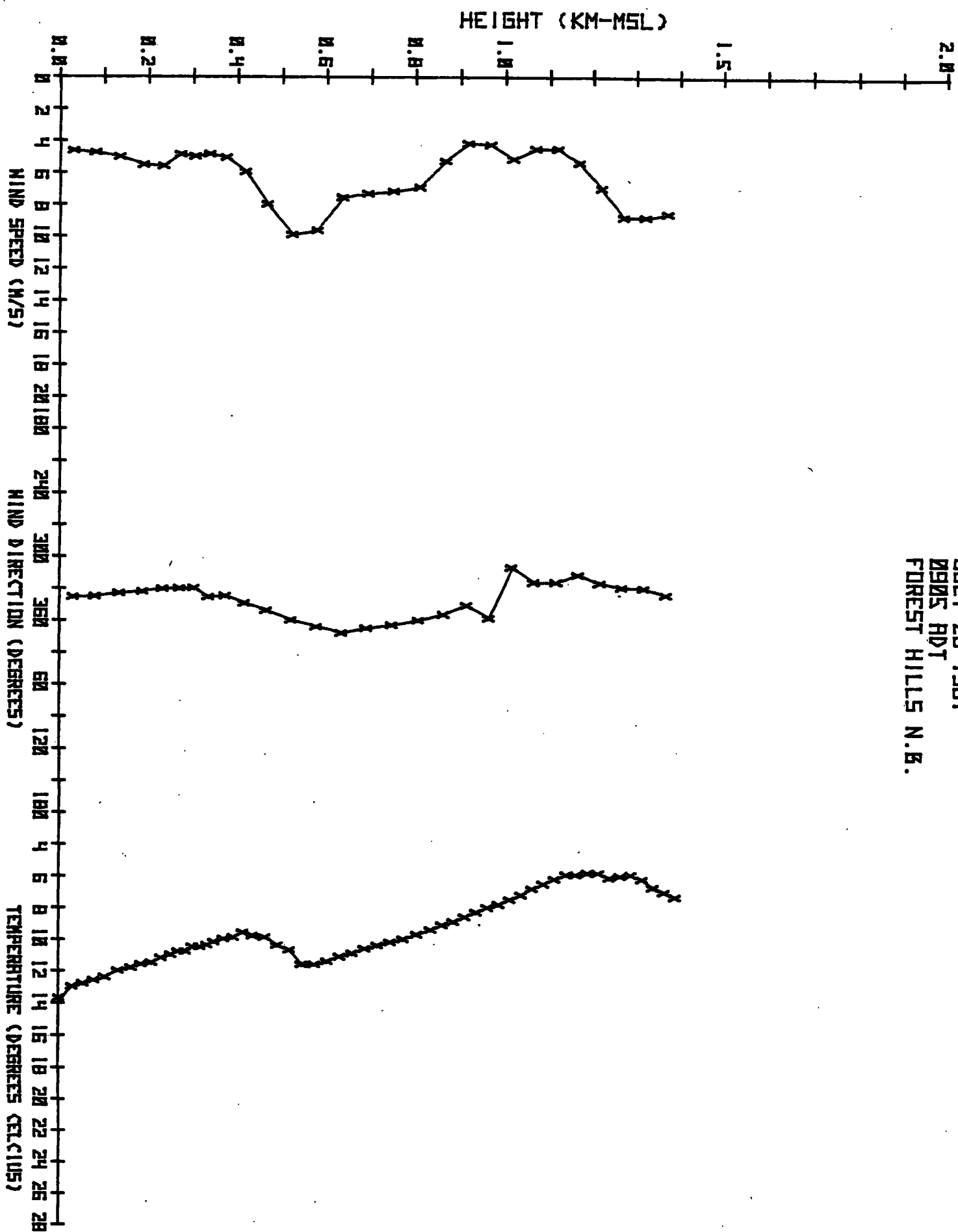
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 2

DATE JULY 28 1981 TIME 0905 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	6			13.8	SURFACE CONDITIONS	
1	31	4.6	338	13.0	55	12.8
2	80	4.8	338	12.6	105	12.4
3	134	5.0	335	12.0	164	11.8
4	187	5.5	333	11.6	210	11.5
5	232	5.6	331	11.2	254	11.0
6	271	4.9	330	10.8	288	10.8
7	304	5.0	330	10.5	320	10.5
8	336	4.8	338	10.4	352	10.2
9	373	5.0	337	10.0	395	9.9
10	417	5.9	344	9.6	439	9.8
11	467	8.0	351	9.9	494	10.4
12	523	9.9	360	10.7	551	11.6
13	579	9.6	6	11.6	607	11.4
14	635	7.5	12	11.1	663	10.9
15	692	7.3	7	10.6	720	10.4
16	749	7.1	5	10.2	777	10.0
17	809	6.9	360	9.7	840	9.4
18	865	5.3	354	9.1	891	8.9
19	916	4.2	346	8.6	941	8.3
20	966	4.3	358	8.0	992	7.8
21	1017	5.1	310	7.5	1042	7.2
22	1067	4.5	324	6.8	1093	6.5
23	1118	4.5	324	6.2	1143	5.9
24	1169	5.3	317	5.9	1194	5.8
25	1219	6.9	325	5.8	1244	6.1
26	1270	8.8	329	6.0	1295	5.9
27	1320	8.8	330	6.2	1346	6.7
28	1371	8.5	336	7.0	1396	7.3

JULY 28 1981
0905 ADT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 5 - 8

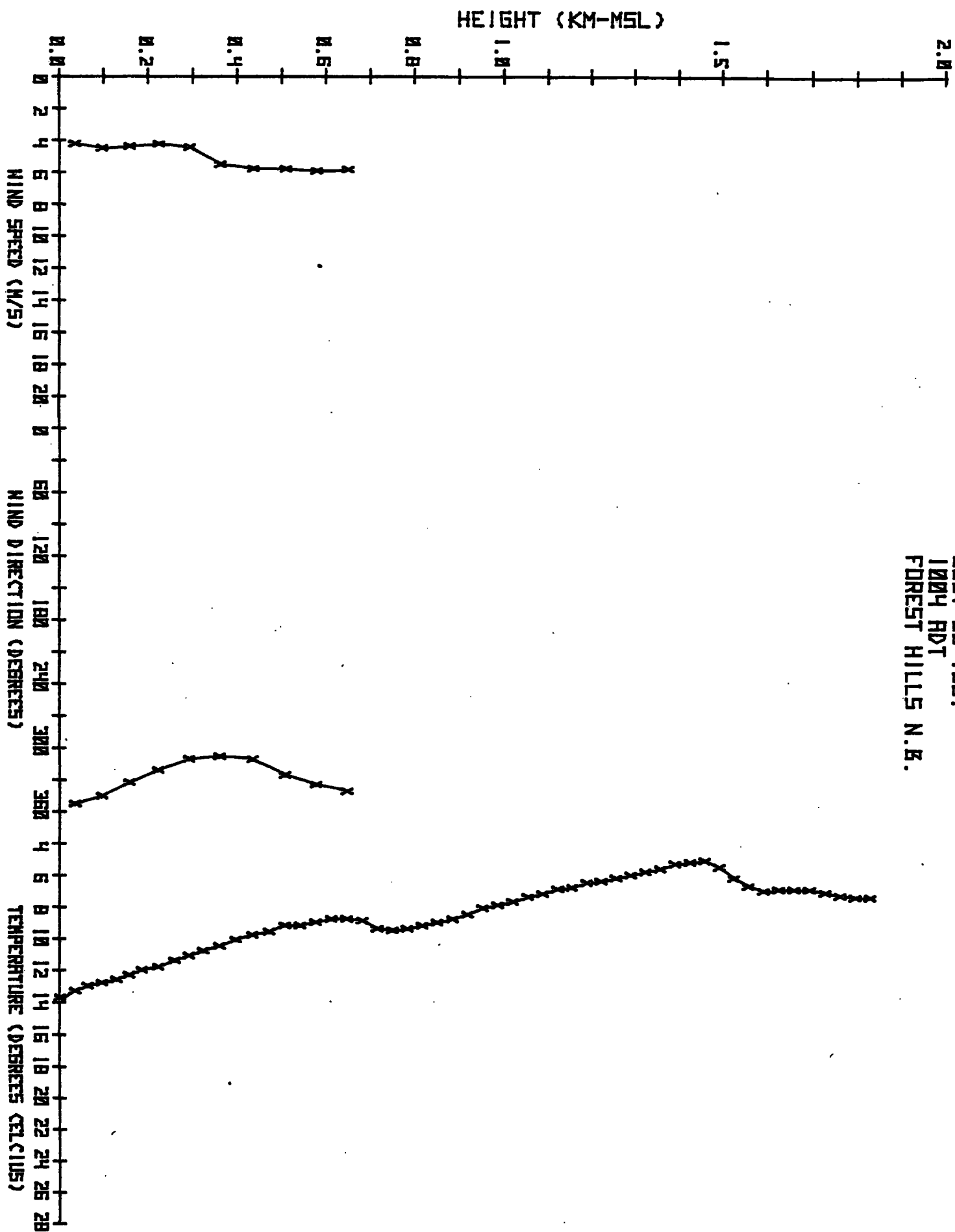
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 3

DATE JULY 28 1981 TIME 1004 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	8			13.8	SURFACE CONDITIONS	
1	36	4.2	353	13.3	64	13.0
2	97	4.5	345	12.8	130	12.6
3	159	4.4	333	12.3	187	12.0
4	224	4.2	321	11.8	261	11.4
5	294	4.4	311	11.1	326	10.8
6	363	5.5	308	10.5	400	10.1
7	437	5.8	311	9.8	475	9.6
8	510	5.8	326	9.2	545	9.2
9	580	5.9	335	9.0	615	8.8
10	650	5.8	341	8.8	685	8.9
11	719			9.4	753	9.5
12	787			9.4	820	9.2
13	854			9.0	888	8.8
14	922			8.5	956	8.1
15	990			7.9	1024	7.7
16	1058			7.4	1091	7.2
17	1125			6.9	1159	6.8
18	1193			6.5	1227	6.4
19	1261			6.2	1295	6.0
20	1328			5.8	1362	5.6
21	1396			5.3	1430	5.2
22	1464			5.1	1498	5.5
23	1532			6.2	1565	6.7
24	1599			7.0	1633	6.9
25	1667			6.9	1701	6.9
26	1735			7.1	1769	7.3
27	1802			7.4	1836	7.4
28	1870			7.2	1904	7.1

JULY 28 1981
1004 PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 5 - 10

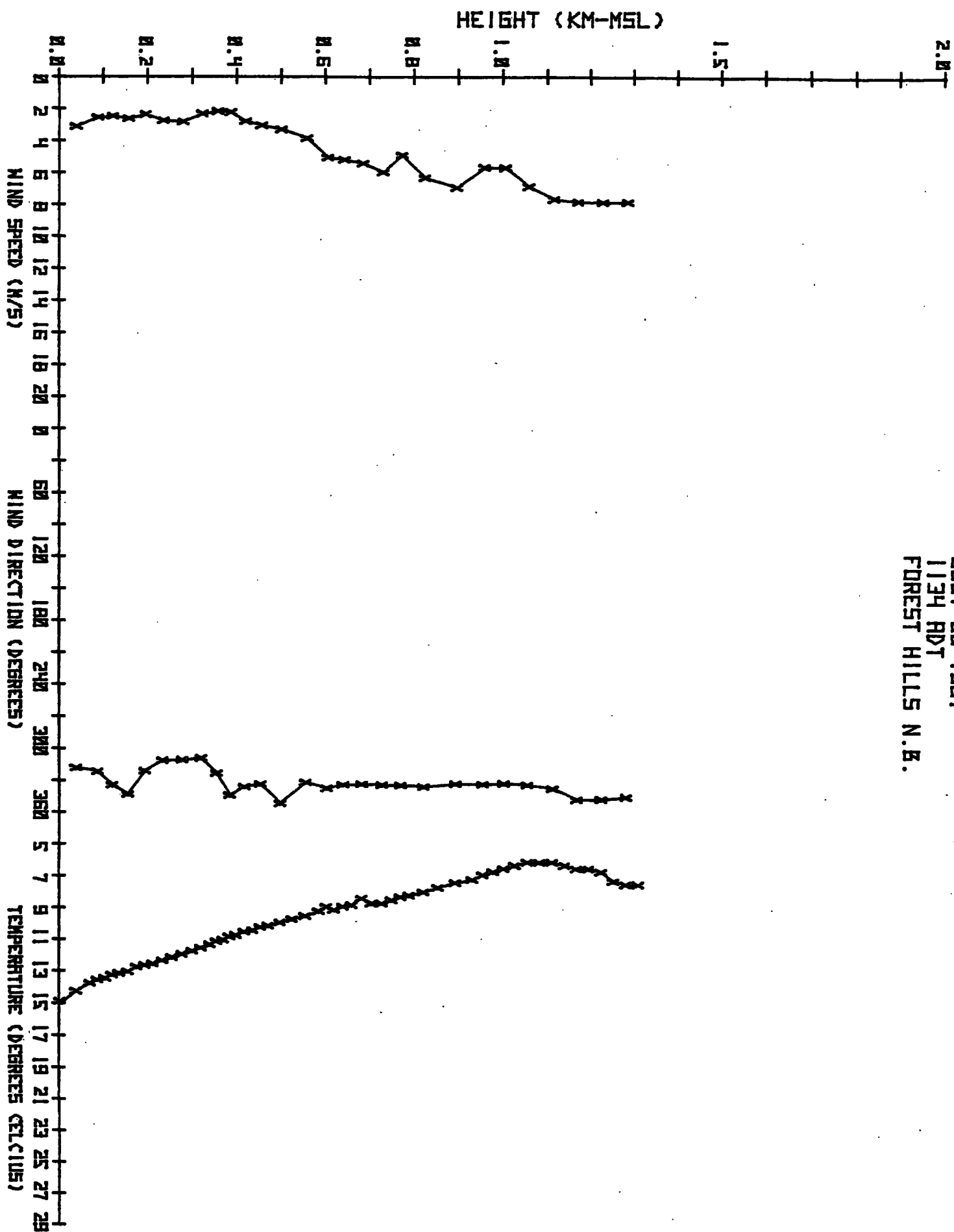
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 4

DATE JULY 28 1981 TIME 1134 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	8			15.0	SURFACE CONDITIONS	
1	39	3.1	319	14.3	70	13.8
2	88	2.6	322	13.6	106	13.5
3	121	2.5	335	13.3	137	13.2
4	157	2.6	344	13.1	176	12.8
5	195	2.4	322	12.7	213	12.6
6	235	2.8	312	12.4	257	12.2
7	280	2.8	311	12.0	303	11.8
8	323	2.3	310	11.6	342	11.4
9	357	2.2	324	11.2	372	11.1
10	386	2.2	345	10.9	401	10.8
11	420	2.8	337	10.6	439	10.5
12	456	3.1	334	10.3	474	10.2
13	501	3.3	352	10.0	528	9.8
14	558	3.8	332	9.6	589	9.3
15	606	5.1	338	9.0	623	9.2
16	643	5.2	335	9.0	662	8.9
17	685	5.4	334	8.5	707	8.8
18	730	6.0	335	8.8	753	8.6
19	773	4.9	335	8.4	792	8.3
20	825	6.3	337	8.1	857	7.8
21	896	6.9	334	7.5	935	7.3
22	958	5.7	334	7.0	982	6.8
23	1006	5.7	334	6.6	1031	6.4
24	1059	6.9	335	6.2	1087	6.2
25	1116	7.7	338	6.2	1144	6.4
26	1173	7.9	349	6.6	1201	6.6
27	1229	7.8	349	6.8	1258	7.4
28	1286	7.8	346	7.6	1315	7.6

JULY 28 1981
1134 ADT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 5 - 12

STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 5

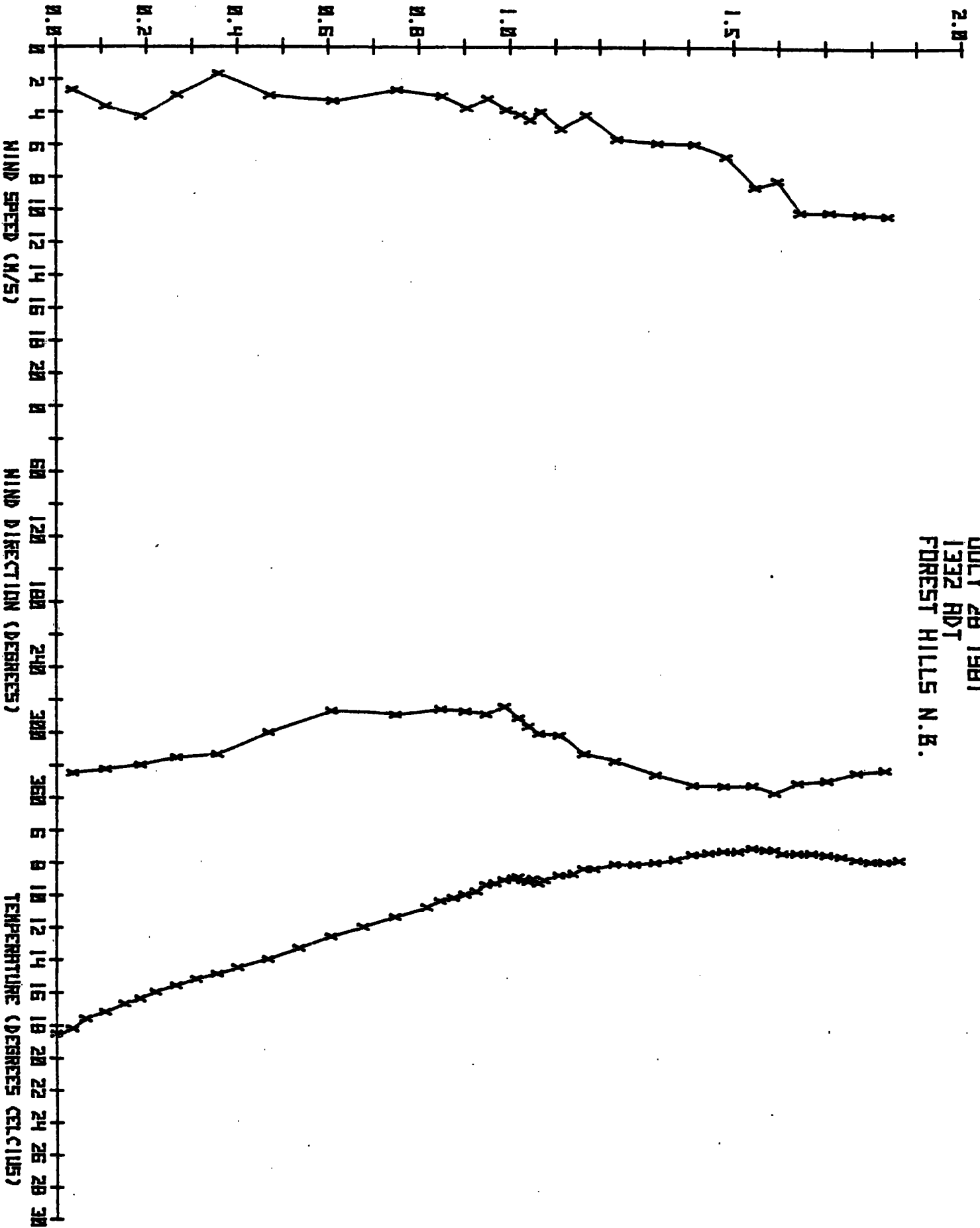
DATE JULY 28 1981 TIME 1332 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	7			18.6	SURFACE CONDITIONS	
1	36	2.7	337	18.2	66	17.6
2	109	3.7	334	17.2	152	16.7
3	187	4.3	330	16.4	222	16.0
4	267	3.0	323	15.6	312	15.2
5	358	1.7	320	14.9	404	14.5
6	472	3.0	300	14.0	540	13.3
7	610	3.3	280	12.6	681	12.0
8	751	2.6	284	11.4	821	10.8
9	850	3.0	279	10.4	880	10.2
10	905	3.8	281	10.0	930	9.8
11	951	3.2	283	9.4	972	9.3
12	991	3.9	277	9.1	1011	9.0
13	1022	4.2	287	8.9	1033	9.1
14	1044	4.5	294	9.2	1055	9.0
15	1068	4.0	301	9.3	1080	9.1
16	1113	5.0	303	8.8	1146	8.7
17	1170	4.2	320	8.4	1194	8.4
18	1239	5.7	326	8.1	1284	8.1
19	1330	5.9	339	8.0	1376	7.8
20	1413	5.9	348	7.5	1450	7.4
21	1484	6.7	349	7.3	1517	7.3
22	1548	8.6	349	7.1	1580	7.2
23	1598	8.2	356	7.2	1615	7.4
24	1647	10.1	346	7.4	1679	7.4
25	1711	10.1	344	7.5	1742	7.6
26	1774	10.2	337	7.8	1806	7.9
27	1838	10.3	334	7.9	1869	7.8
28	1901	10.3	334	7.6	1933	7.4

JULY 28 1981
1332 ADT
FOREST HILLS N.B.

HEIGHT (KM-MSL)



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 5 - 14

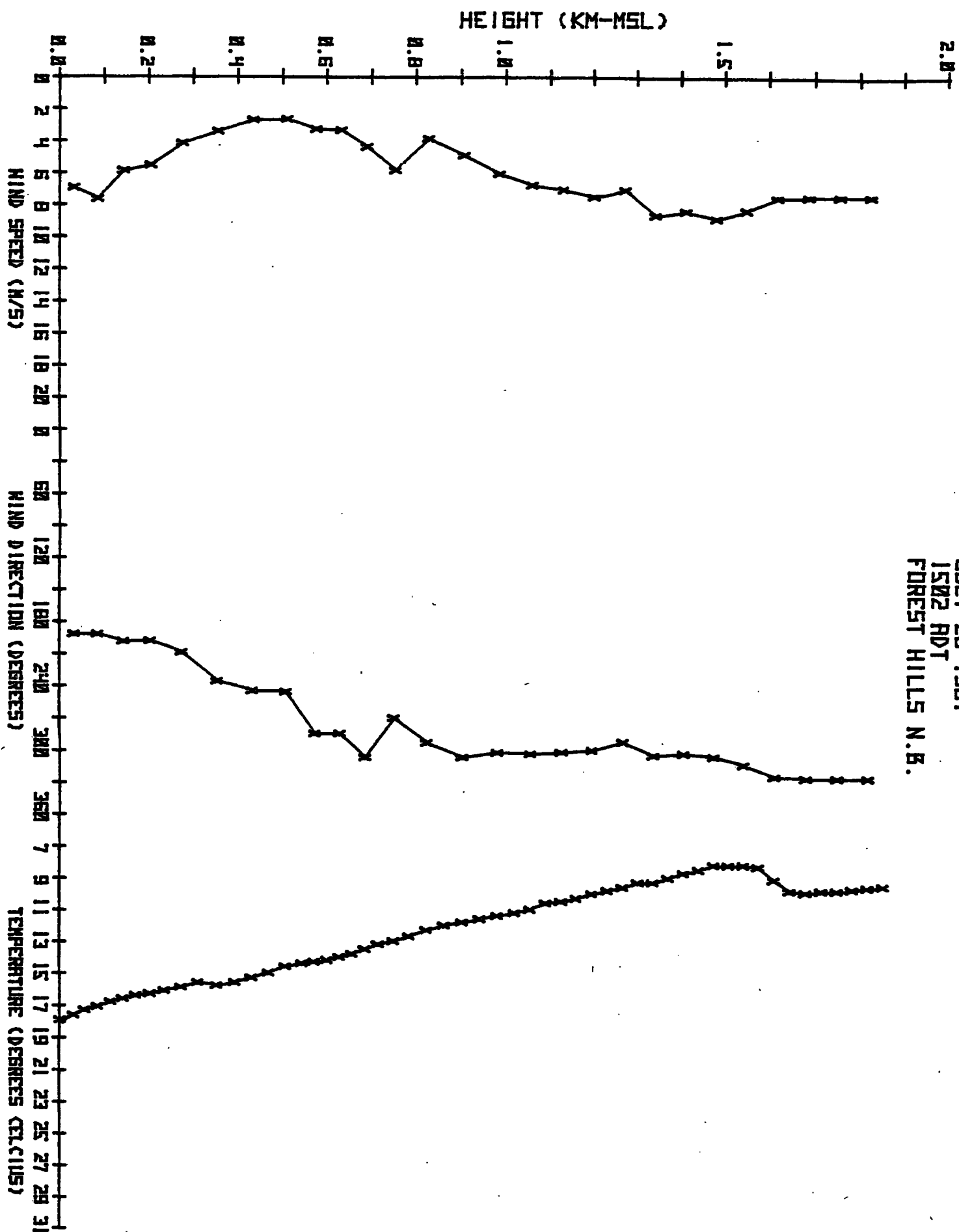
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 6

DATE JULY 28 1981 TIME 1502 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	8			18.0	SURFACE CONDITIONS	
1	32	6.9	192	17.6	56	17.3
2	86	7.7	192	17.1	115	16.8
3	143	5.9	198	16.6	171	16.4
4	204	5.5	198	16.3	236	16.1
5	274	4.2	209	15.9	312	15.6
6	354	3.4	236	15.8	396	15.6
7	434	2.7	245	15.3	472	15.0
8	510	2.6	246	14.6	547	14.4
9	575	3.3	285	14.3	604	14.2
10	632	3.3	285	14.0	660	13.8
11	689	4.3	307	13.5	718	13.2
12	753	5.8	270	13.0	788	12.7
13	827	3.9	293	12.3	867	12.0
14	907	4.9	307	11.8	946	11.6
15	985	6.0	302	11.4	1024	11.2
16	1059	6.8	304	11.0	1095	10.6
17	1130	7.0	302	10.5	1166	10.3
18	1201	7.5	300	10.0	1237	9.8
19	1272	7.0	292	9.6	1307	9.3
20	1342	8.6	305	9.3	1376	9.0
21	1411	8.3	303	8.7	1445	8.5
22	1480	8.8	306	8.2	1514	8.2
23	1549	8.3	313	8.2	1583	8.3
24	1618	7.5	325	9.1	1652	9.8
25	1687	7.4	326	9.9	1721	9.8
26	1756	7.4	326	9.8	1790	9.7
27	1825	7.4	326	9.6	1859	9.5
28	1894	7.4	326	9.4	1928	9.3

JULY 28 1981
1502 ADT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 5 - 16

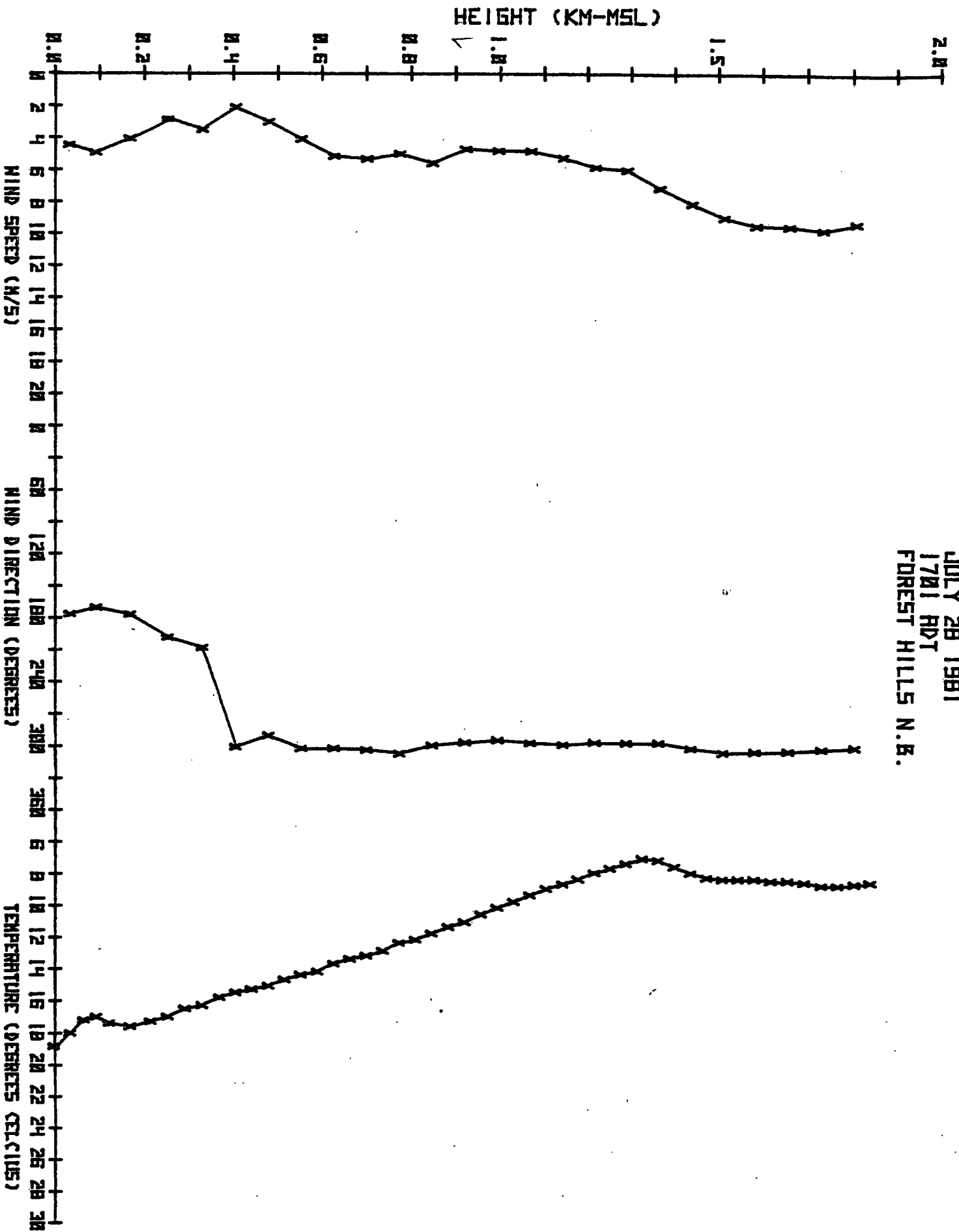
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 7

DATE JULY 28 1981 TIME 1701 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	9			19.1	SURFACE CONDITIONS	
1	40	4.6	179	18.2	70	17.4
2	100	5.1	173	17.2	129	17.6
3	176	4.3	180	17.8	222	17.5
4	261	3.0	202	17.2	300	16.7
5	339	3.7	211	16.5	377	16.0
6	414	2.3	304	15.7	451	15.5
7	488	3.2	294	15.3	525	14.9
8	562	4.3	306	14.6	599	14.4
9	636	5.4	306	13.9	673	13.6
10	710	5.5	307	13.4	747	13.1
11	784	5.2	311	12.6	821	12.4
12	858	5.8	303	12.0	895	11.6
13	932	4.9	300	11.3	969	10.8
14	1006	5.0	298	10.4	1043	10.0
15	1080	5.1	301	9.6	1117	9.2
16	1154	5.5	302	8.9	1191	8.6
17	1227	6.1	300	8.2	1264	7.9
18	1301	6.2	301	7.6	1338	7.3
19	1375	7.4	301	7.4	1412	7.8
20	1449	8.3	306	8.2	1486	8.5
21	1523	9.2	310	8.6	1560	8.6
22	1597	9.7	309	8.6	1634	8.7
23	1671	9.8	309	8.7	1707	8.8
24	1744	10.0	307	9.0	1781	9.0
25	1818	9.6	305	8.9	1855	8.8
26	1892	9.3	303	8.8	1929	8.9
27	1966	9.2	303	8.7	2003	8.6
28	2040	9.2	303	8.3	2077	8.0

JULY 28 1981
1701 RDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 5 - 18

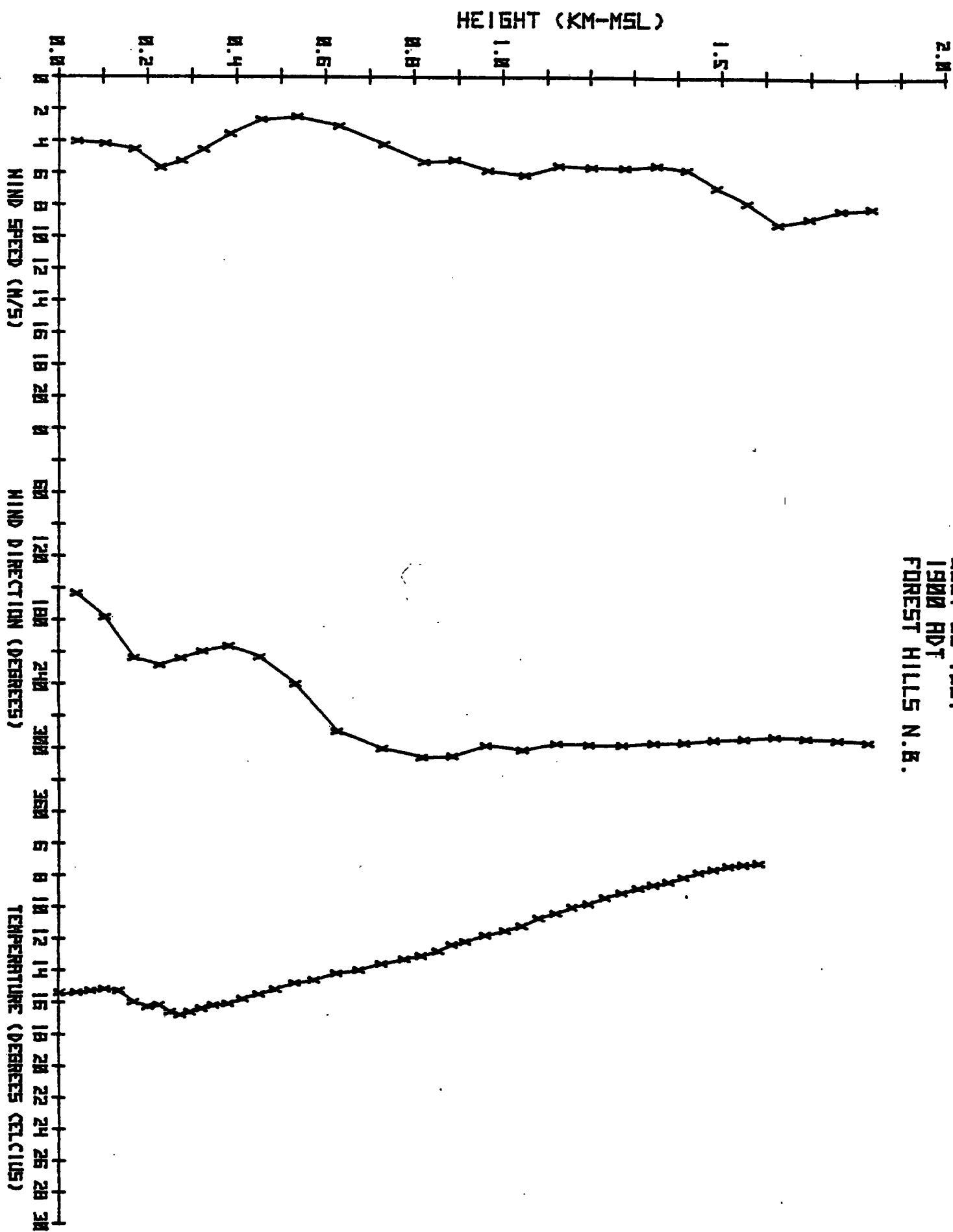
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 8

DATE JULY 28 1981 TIME 1900 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	9			15.5	SURFACE CONDITIONS	
1	41	4.1	155	15.4	73	15.3
2	105	4.2	178	15.2	138	15.3
3	171	4.5	216	16.0	203	16.3
4	229	5.7	223	16.2	255	16.6
5	277	5.3	216	16.8	300	16.6
6	326	4.6	210	16.4	353	16.2
7	386	3.6	205	16.1	419	15.8
8	456	2.7	215	15.5	493	15.2
9	537	2.5	241	14.8	580	14.6
10	631	3.1	285	14.2	681	14.0
11	732	4.2	301	13.6	784	13.3
12	822	5.3	309	13.1	860	12.8
13	891	5.2	308	12.4	921	12.2
14	966	5.9	298	11.8	1011	11.5
15	1050	6.2	302	11.2	1088	10.7
16	1126	5.6	296	10.4	1164	10.0
17	1202	5.7	297	9.8	1241	9.4
18	1279	5.7	297	9.1	1317	8.8
19	1351	5.5	295	8.6	1386	8.4
20	1420	5.8	295	8.1	1455	7.8
21	1490	6.9	292	7.6	1524	7.4
22	1559	7.9	291	7.3	1593	7.2
23	1628	9.2	289	M		
24	1697	8.8	291	M		
25	1766	8.3	292	M		
26	1835	8.2	294	M		
27	1904	8.5	297	M		
28	1973	8.5	297	M		

JULY 28 1981
1900 PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 5 - 20

STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 1

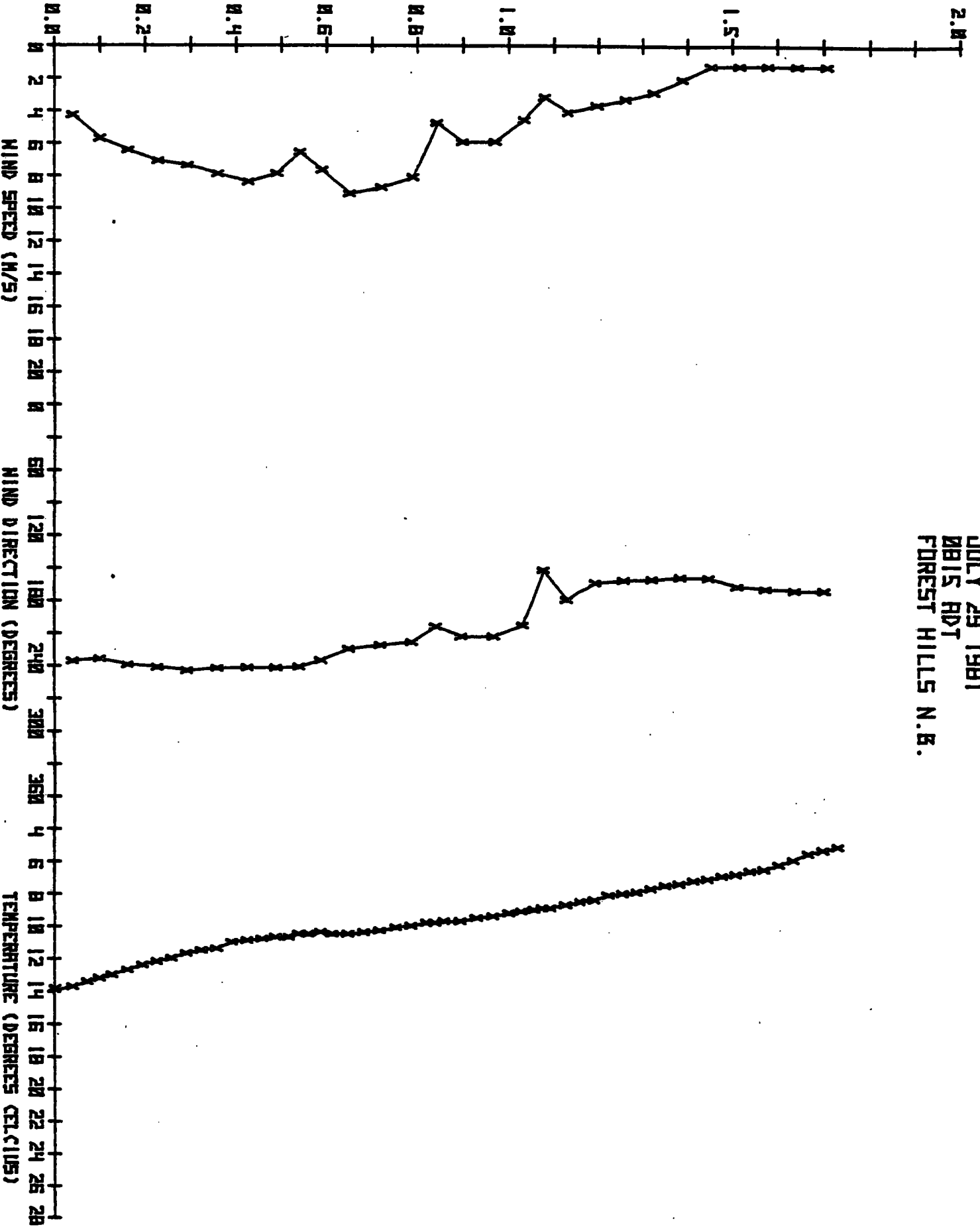
DATE JULY 29 1981 TIME 0815 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	8			13.9	SURFACE CONDITIONS	
1	40	4.3	236	13.7	72	13.4
2	100	5.7	234	13.2	128	13.0
3	162	6.4	239	12.7	195	12.4
4	227	7.1	242	12.2	260	12.0
5	293	7.4	245	11.7	326	11.5
6	360	7.9	243	11.4	394	11.0
7	428	8.4	242	10.9	462	10.8
8	491	7.9	242	10.7	520	10.7
9	542	6.5	241	10.5	564	10.5
10	590	7.6	235	10.4	616	10.5
11	651	9.1	225	10.5	686	10.4
12	721	8.7	221	10.3	756	10.1
13	790	8.1	219	10.0	824	9.8
14	843	4.7	204	9.8	862	9.7
15	898	5.9	213	9.7	934	9.5
16	970	5.9	213	9.4	1006	9.2
17	1033	4.6	203	9.1	1061	9.0
18	1079	3.2	152	8.9	1097	8.9
19	1131	4.1	179	8.7	1165	8.5
20	1197	3.7	164	8.4	1229	8.1
21	1260	3.3	161	8.0	1292	7.9
22	1324	2.9	161	7.7	1356	7.5
23	1388	2.1	159	7.4	1420	7.2
24	1452	1.3	159	7.1	1483	6.9
25	1515	1.3	167	6.8	1547	6.6
26	1579	1.3	169	6.5	1611	6.2
27	1643	1.3	171	5.9	1675	5.5
28	1707	1.3	171	5.3	1738	5.1

JULY 29 1981
0815 RDT
FOREST HILLS N.B.

HEIGHT (KM-MSL)



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 8

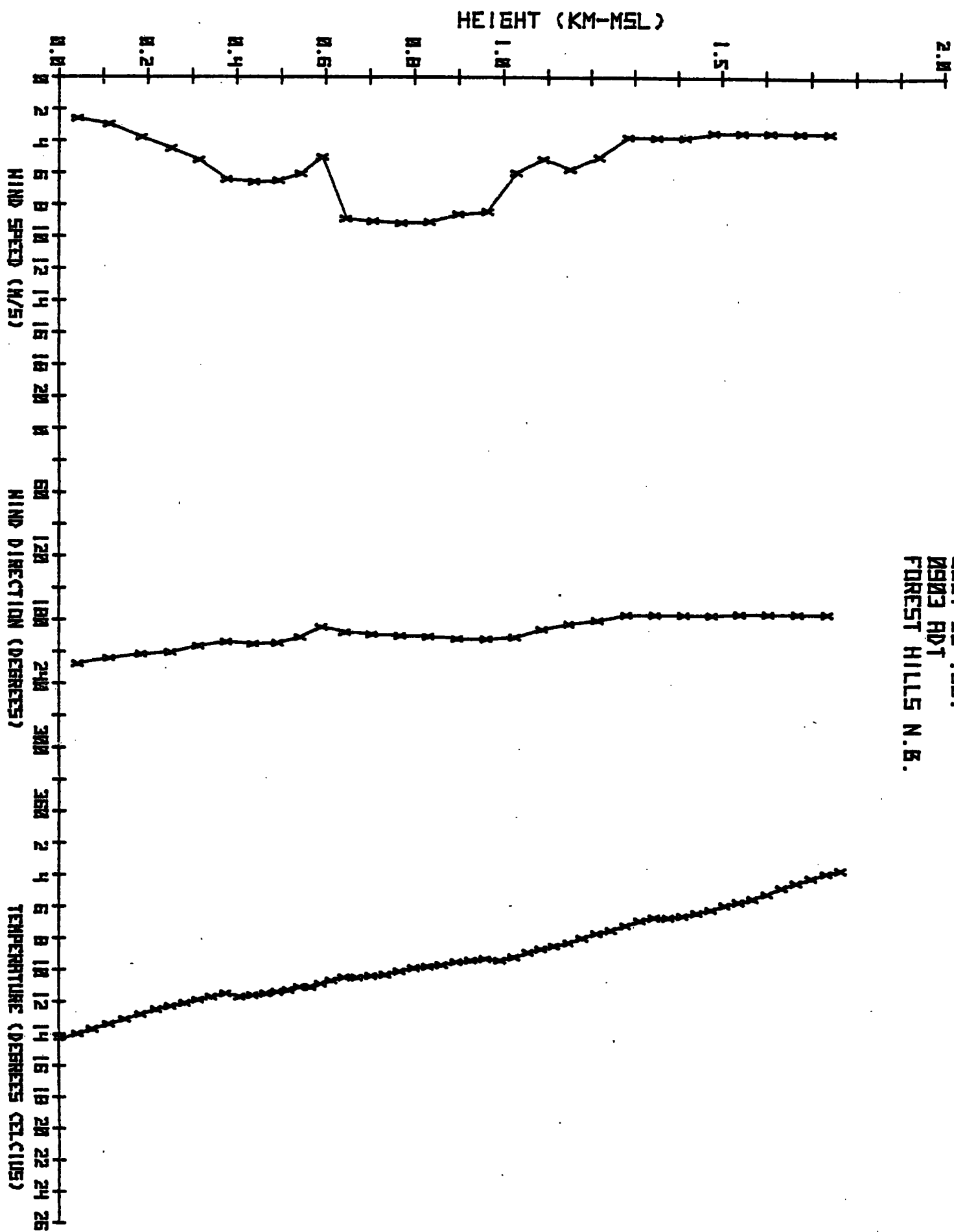
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 2

DATE JULY 29 1981 TIME 0903 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	8			14.3	SURFACE CONDITIONS	
1	42	2.6	222	14.0	76	13.7
2	112	3.0	217	13.4	148	13.1
3	184	3.8	213	12.8	219	12.5
4	252	4.5	211	12.3	284	12.1
5	314	5.2	205	11.9	344	11.7
6	376	6.4	201	11.5	408	11.7
7	438	6.6	203	11.6	468	11.5
8	494	6.5	202	11.4	519	11.3
9	544	6.1	196	11.1	569	11.1
10	592	5.0	187	10.9	615	10.7
11	645	8.9	192	10.5	674	10.5
12	706	9.0	194	10.4	738	10.3
13	770	9.1	195	10.1	802	9.9
14	833	9.1	196	9.8	865	9.7
15	898	8.6	198	9.5	931	9.4
16	963	8.4	198	9.3	996	9.4
17	1028	6.0	196	9.2	1059	8.9
18	1089	5.1	189	8.7	1119	8.5
19	1152	5.8	184	8.3	1185	8.0
20	1218	5.0	181	7.7	1251	7.5
21	1284	3.7	175	7.2	1317	6.9
22	1350	3.7	175	6.7	1383	6.7
23	1415	3.7	175	6.6	1448	6.4
24	1480	3.5	176	6.2	1512	5.9
25	1545	3.4	174	5.7	1577	5.5
26	1609	3.4	174	5.2	1642	4.8
27	1674	3.4	174	4.5	1707	4.2
28	1739	3.4	174	3.9	1771	3.7

JULY 29 1981
 0903 ADT
 FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 2

STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 3

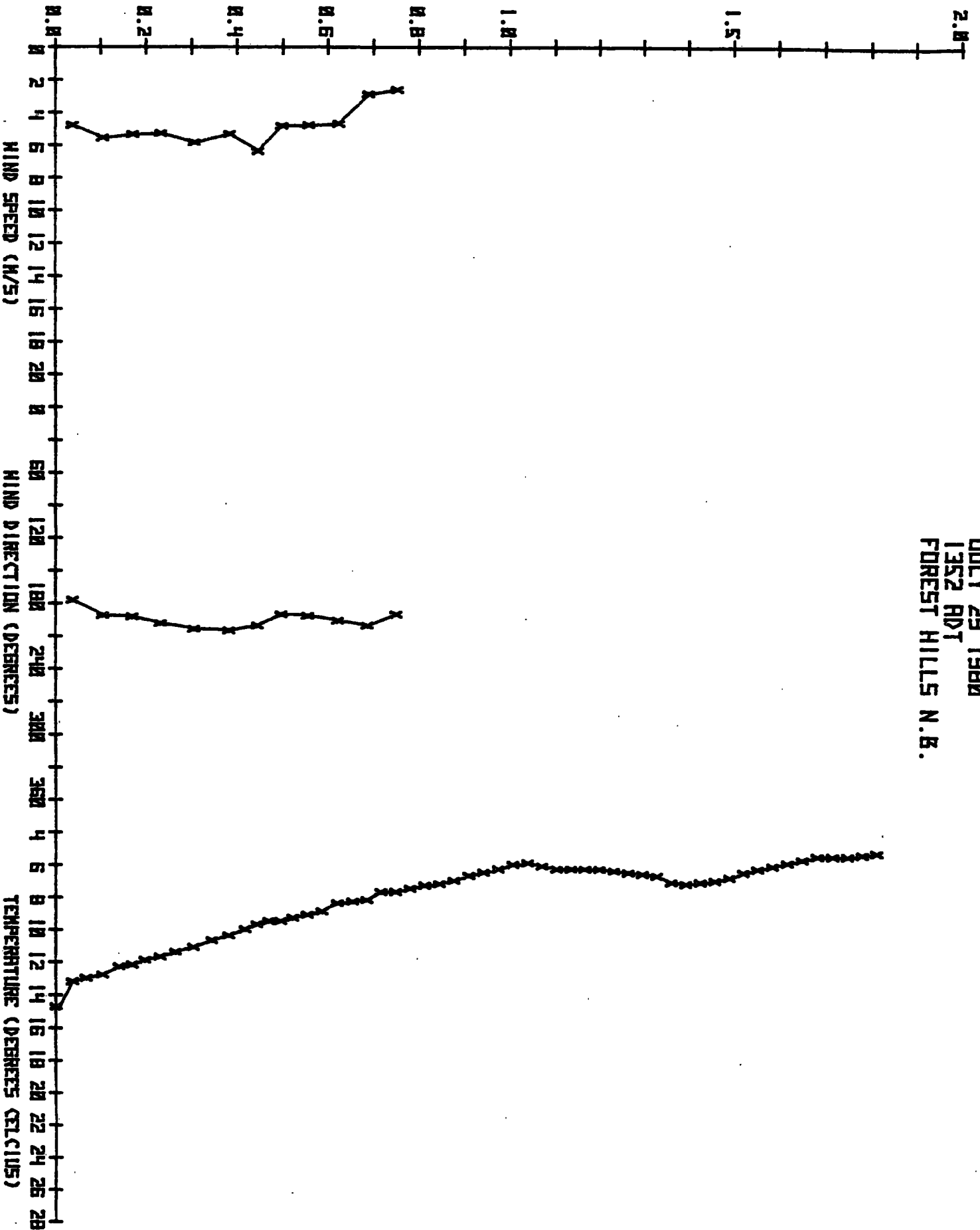
DATE JULY 29 1980 TIME 1352 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	7			14.8	SURFACE CONDITIONS	
1	38	4.8	177	13.2	68	13.0
2	104	5.6	191	12.8	141	12.3
3	169	5.4	193	12.2	198	11.9
4	232	5.3	199	11.7	265	11.4
5	306	5.8	204	11.1	346	10.7
6	383	5.3	205	10.4	420	10.0
7	446	6.4	201	9.7	472	9.5
8	498	4.8	190	9.5	524	9.3
9	557	4.8	192	9.1	589	8.9
10	623	4.7	196	8.4	657	8.3
11	688	2.9	201	8.2	719	7.7
12	752	2.6	190	7.7	784	7.5
13	816			7.3	848	7.2
14	881			7.0	913	6.7
15	945			6.5	978	6.3
16	1010			6.0	1042	5.9
17	1075			6.1	1107	6.3
18	1139			6.3	1172	6.3
19	1204			6.3	1236	6.4
20	1269			6.5	1301	6.6
21	1333			6.7	1366	7.1
22	1398			7.2	1430	7.1
23	1463			7.0	1495	6.8
24	1528			6.5	1560	6.3
25	1592			6.1	1625	5.9
26	1657			5.7	1689	5.5
27	1722			5.5	1754	5.5
28	1786			5.4	1819	5.3

JULY 29 1980
1352 RDT
FOREST HILLS N.B.

HEIGHT (KM-MSL)



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 4

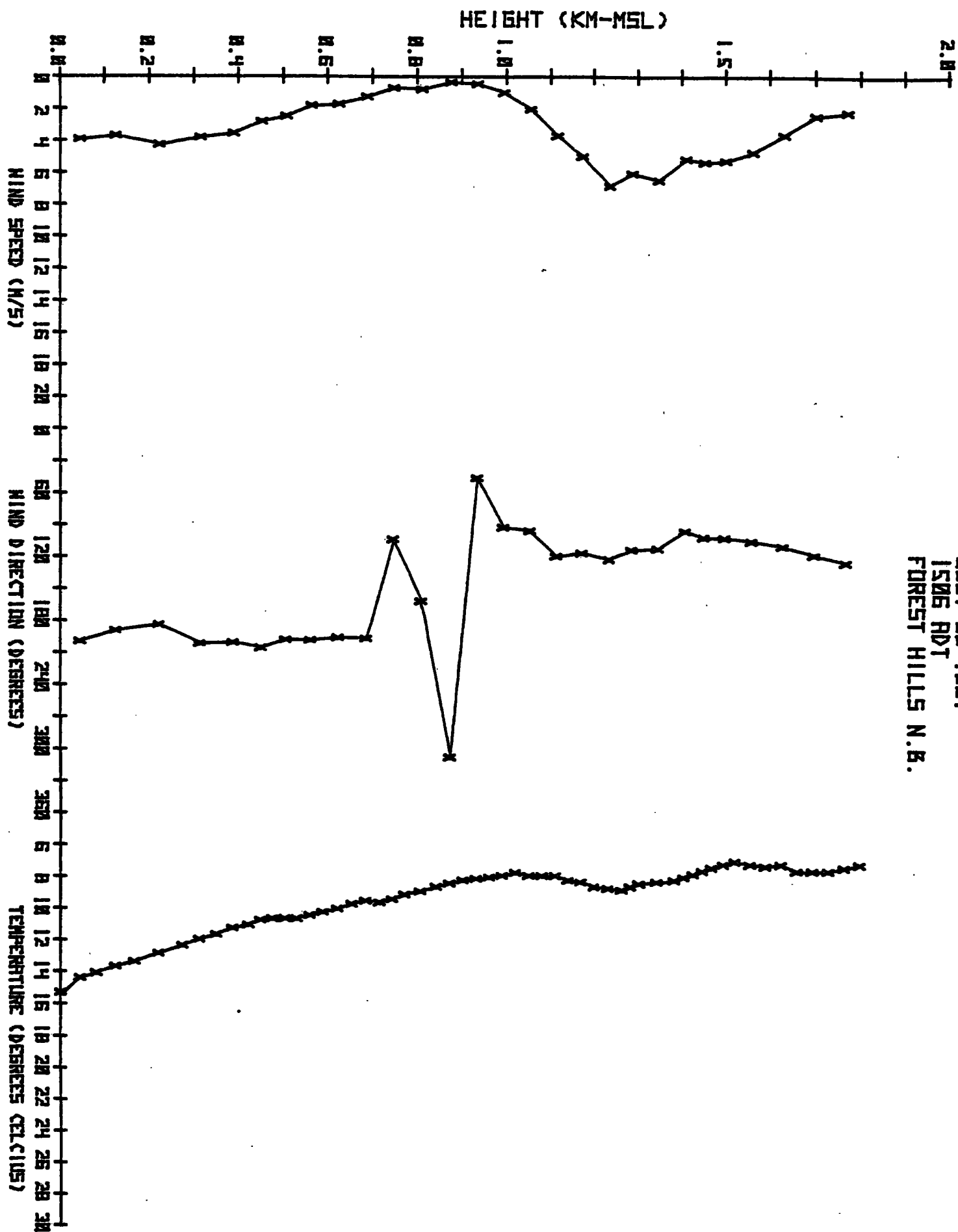
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 4

DATE JULY 29 1981 TIME 1506 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	7			15.4	SURFACE CONDITIONS	
1	45	3.9	200	14.4	83	14.1
2	125	3.7	190	13.7	168	13.4
3	222	4.3	184	12.9	277	12.4
4	315	3.8	202	12.0	353	11.7
5	389	3.6	201	11.3	425	11.1
6	452	2.8	206	10.8	480	10.7
7	507	2.5	198	10.7	535	10.7
8	564	1.8	199	10.5	593	10.3
9	625	1.7	196	10.1	657	9.8
10	688	1.3	197	9.6	720	9.7
11	747	0.7	104	9.5	775	9.2
12	811	0.8	162	9.0	847	8.7
13	876	0.4	309	8.5	906	8.3
14	935	0.5	46	8.2	965	8.1
15	995	1.0	93	8.0	1024	7.8
16	1055	2.1	96	8.0	1085	8.0
17	1114	3.7	120	8.0	1143	8.3
18	1174	5.0	117	8.4	1205	8.7
19	1236	6.8	123	8.8	1268	8.9
20	1288	6.1	114	8.7	1307	8.5
21	1348	6.5	113	8.4	1388	8.3
22	1410	5.2	96	8.1	1431	7.9
23	1452	5.4	102	7.7	1473	7.5
24	1500	5.3	103	7.3	1527	7.1
25	1562	4.7	106	7.3	1597	7.4
26	1632	3.6	111	7.3	1666	7.7
27	1701	2.4	119	7.7	1736	7.7
28	1771	2.2	126	7.5	1805	7.3

JULY 29 1981
1506 PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 6

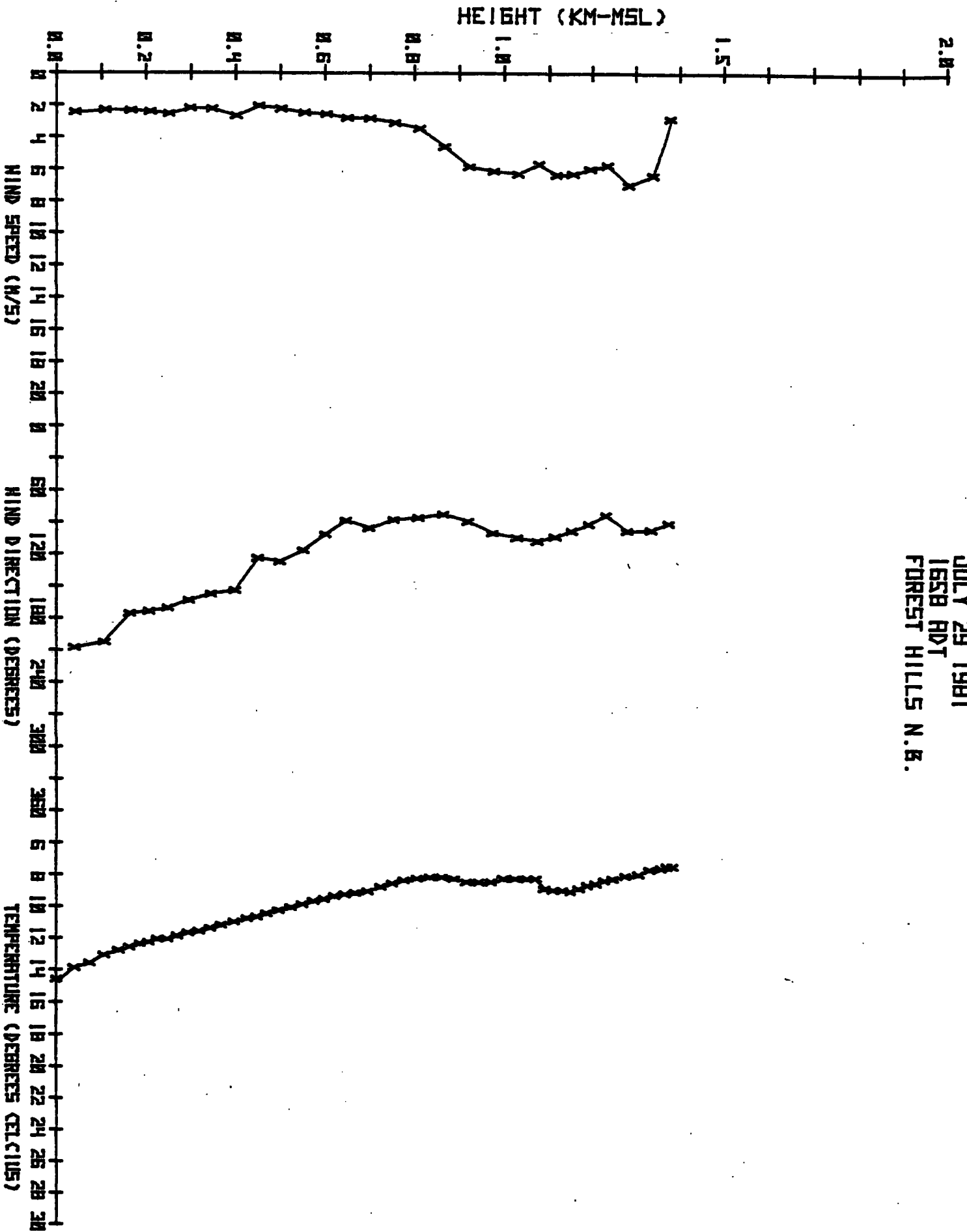
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 5

DATE JULY 29 1981 TIME 1658 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	7			14.7	SURFACE CONDITIONS	
1	42	2.5	208	13.9	76	13.6
2	108	2.3	203	13.1	141	12.8
3	165	2.4	176	12.6	189	12.4
4	208	2.4	174	12.3	228	12.1
5	251	2.6	171	12.1	273	11.9
6	298	2.2	164	11.7	322	11.6
7	347	2.3	158	11.4	372	11.2
8	401	2.7	154	11.0	430	10.8
9	453	2.1	124	10.7	475	10.5
10	502	2.3	128	10.3	529	10.1
11	554	2.5	117	9.9	579	9.7
12	603	2.6	102	9.6	627	9.4
13	650	2.8	89	9.3	673	9.2
14	701	2.8	96	9.1	730	8.8
15	756	3.1	88	8.6	782	8.4
16	811	3.5	86	8.3	841	8.2
17	868	4.6	83	8.2	894	8.3
18	922	5.9	90	8.5	950	8.5
19	977	6.1	101	8.5	1005	8.3
20	1032	6.3	105	8.3	1058	8.3
21	1078	5.7	108	8.3	1098	8.9
22	1118	6.4	104	9.0	1137	9.0
23	1157	6.3	98	9.1	1177	8.9
24	1196	6.0	92	8.7	1216	8.6
25	1235	5.7	84	8.4	1254	8.3
26	1284	7.0	98	8.1	1314	8.0
27	1339	6.4	97	7.7	1365	7.6
28	1378	2.8	91	7.5	1391	7.5

JULY 29 1981
1658 PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 10

STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 1

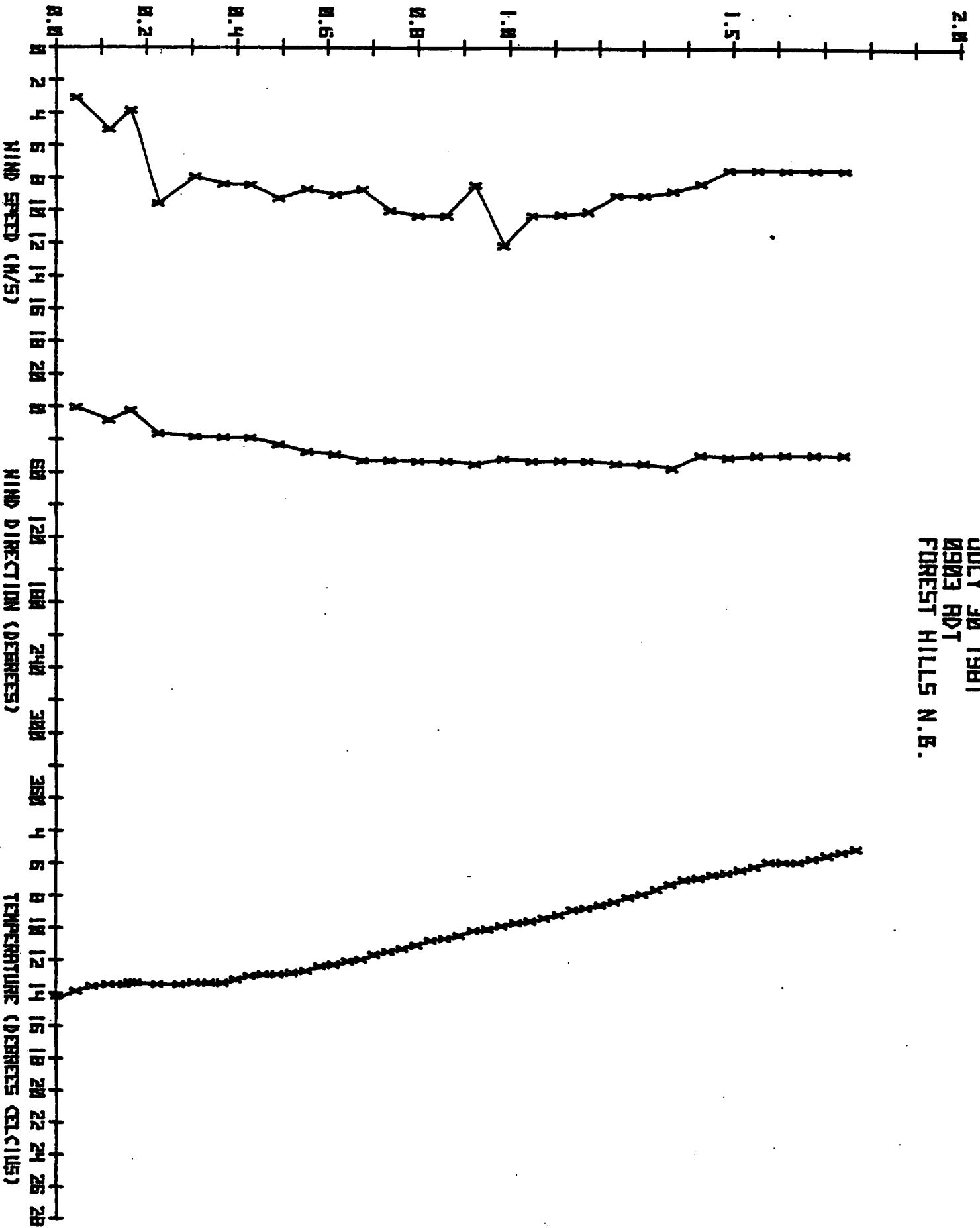
DATE JULY 30 1981 TIME 0903 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	9			14.3	SURFACE CONDITIONS	
1	45	3.1	1	13.9	81	13.6
2	117	5.1	13	13.5	153	13.5
3	164	3.9	4	13.4	176	13.4
4	225	9.6	25	13.5	274	13.5
5	307	7.9	28	13.4	340	13.4
6	370	8.4	28	13.4	399	13.2
7	430	8.4	29	13.0	460	12.9
8	492	9.3	35	12.9	523	12.8
9	555	8.7	42	12.7	586	12.4
10	617	9.0	44	12.3	647	12.1
11	676	8.7	50	12.0	706	11.7
12	737	10.0	50	11.5	768	11.3
13	800	10.3	50	11.1	831	10.8
14	862	10.3	50	10.7	893	10.5
15	925	8.5	53	10.2	956	10.1
16	988	12.2	48	9.9	1019	9.7
17	1051	10.3	50	9.6	1082	9.4
18	1114	10.2	49	9.2	1145	8.9
19	1177	10.0	50	8.8	1208	8.6
20	1240	9.0	52	8.4	1271	8.1
21	1303	9.0	52	7.9	1334	7.6
22	1366	8.8	56	7.3	1397	7.0
23	1429	8.3	44	6.9	1461	6.7
24	1492	7.5	46	6.6	1524	6.4
25	1555	7.5	44	6.2	1587	5.9
26	1618	7.5	44	5.9	1650	5.9
27	1681	7.5	44	5.7	1713	5.5
28	1744	7.5	44	5.3	1776	5.1

JULY 30 1981
0903 PDT
FOREST HILLS N.B.

HEIGHT (KM-MSL)



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 12

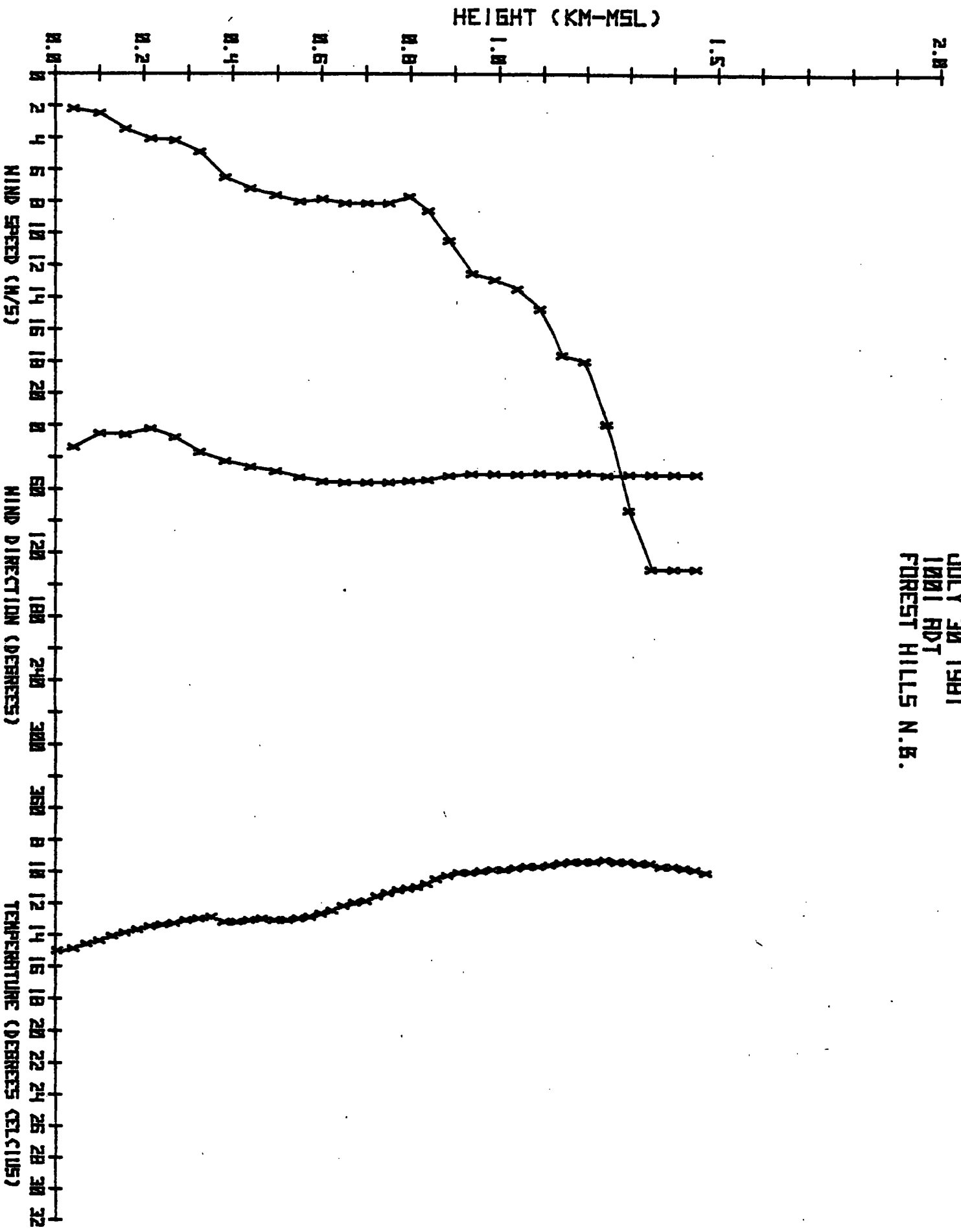
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 2

DATE JULY 30 1981 TIME 1001 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	11			15.1	SURFACE CONDITIONS	
1	41	2.2	21	14.9	71	14.6
2	100	2.5	8	14.4	129	14.1
3	158	3.5	9	13.9	187	13.7
4	215	4.1	4	13.5	243	13.4
5	270	4.2	12	13.3	297	13.1
6	326	4.9	26	13.0	355	12.9
7	383	6.5	34	13.2	412	13.2
8	440	7.2	40	13.1	469	13.0
9	497	7.7	44	13.1	525	13.1
10	551	8.0	49	13.0	577	12.9
11	602	7.9	53	12.7	627	12.5
12	652	8.1	54	12.2	677	12.0
13	703	8.1	54	11.9	728	11.6
14	752	8.1	54	11.4	776	11.2
15	797	7.7	53	11.1	819	11.0
16	840	8.6	52	10.8	862	10.5
17	887	10.5	48	10.3	913	10.1
18	939	12.5	46	10.1	964	10.0
19	990	12.9	46	9.9	1016	9.9
20	1041	13.5	46	9.8	1067	9.7
21	1093	14.7	45	9.7	1118	9.6
22	1144	17.6	46	9.5	1170	9.4
23	1196	18.0	45	9.4	1221	9.4
24	1247	22.0	47	9.3	1273	9.4
25	1299	27.4	46	9.4	1324	9.5
26	1350	31.1	46	9.5	1376	9.7
27	1402	31.1	46	9.7	1427	9.8
28	1453	31.1	46	9.9	1479	10.1

JULY 30 1981
1001 PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 14

STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 3

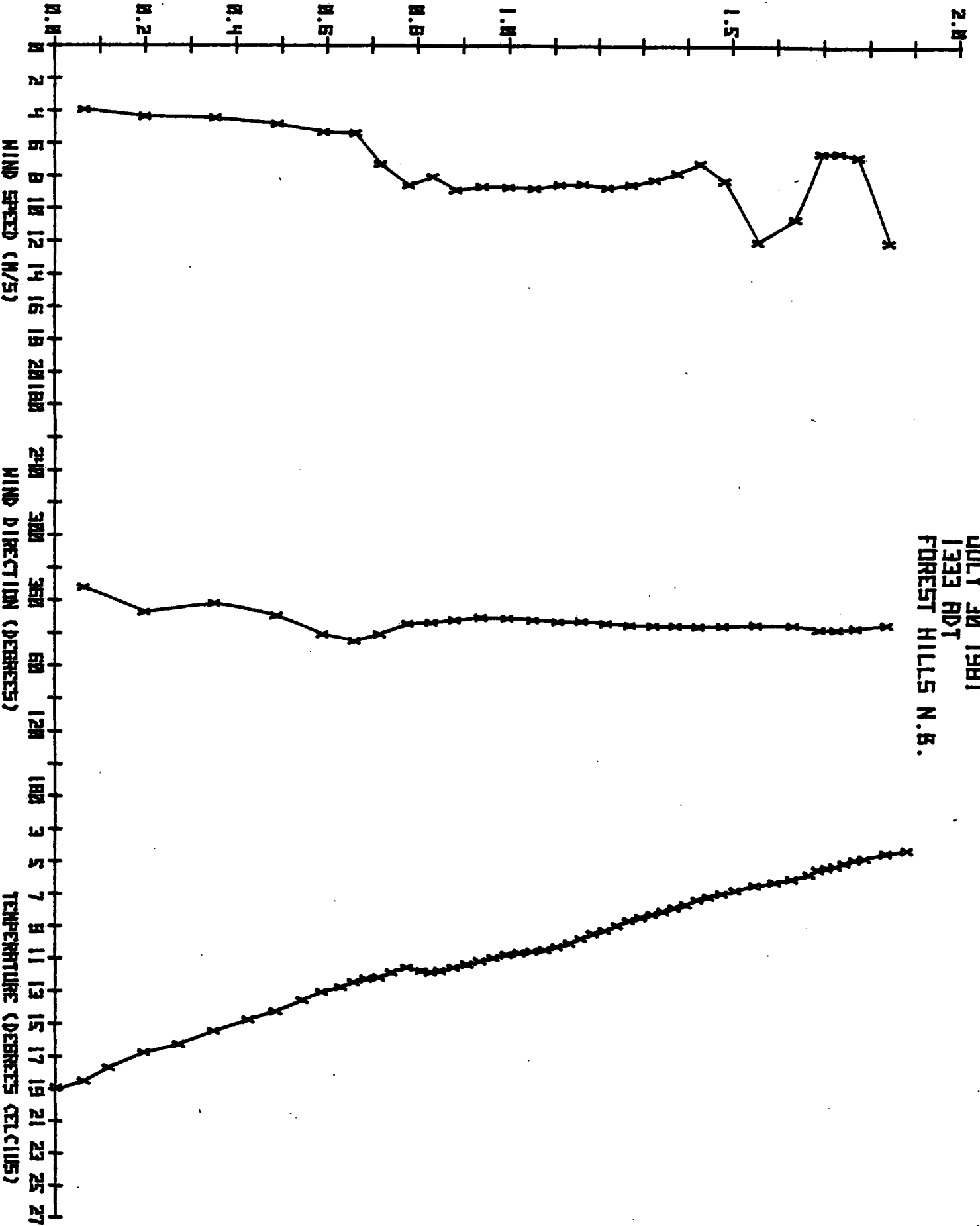
DATE JULY 30 1981 TIME 1333 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	9			19.0	SURFACE CONDITIONS	
1	64	4.0	349	18.5	119	17.7
2	198	4.4	11	16.8	276	16.3
3	353	4.4	3	15.5	430	14.8
4	490	4.8	14	14.3	549	13.6
5	592	5.3	32	13.1	634	12.8
6	662	5.4	38	12.5	689	12.3
7	718	7.3	32	12.2	746	11.9
8	779	8.6	22	11.6	812	11.8
9	832	8.1	21	11.9	853	11.8
10	882	8.9	18	11.6	912	11.4
11	941	8.7	16	11.2	970	11.0
12	999	8.7	17	10.8	1028	10.7
13	1056	8.8	18	10.6	1084	10.5
14	1111	8.6	20	10.3	1138	10.1
15	1165	8.5	19	9.8	1193	9.5
16	1220	8.7	21	9.3	1247	9.0
17	1274	8.5	23	8.7	1301	8.5
18	1326	8.2	23	8.3	1351	8.1
19	1377	7.8	23	7.9	1402	7.7
20	1427	7.2	24	7.4	1452	7.2
21	1483	8.3	23	7.0	1513	6.8
22	1558	12.0	22	6.5	1602	6.3
23	1639	10.6	23	6.1	1676	5.8
24	1695	6.5	27	5.5	1713	5.4
25	1732	6.5	27	5.3	1751	5.1
26	1774	6.8	25	4.9	1796	4.8
27	1843	12.1	22	4.5	1889	4.3
28	1936	12.1	22	4.1	1983	3.9

JULY 30 1981
1333 ADT
FOREST HILLS N.B.

HEIGHT (KM-MSL)



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 16

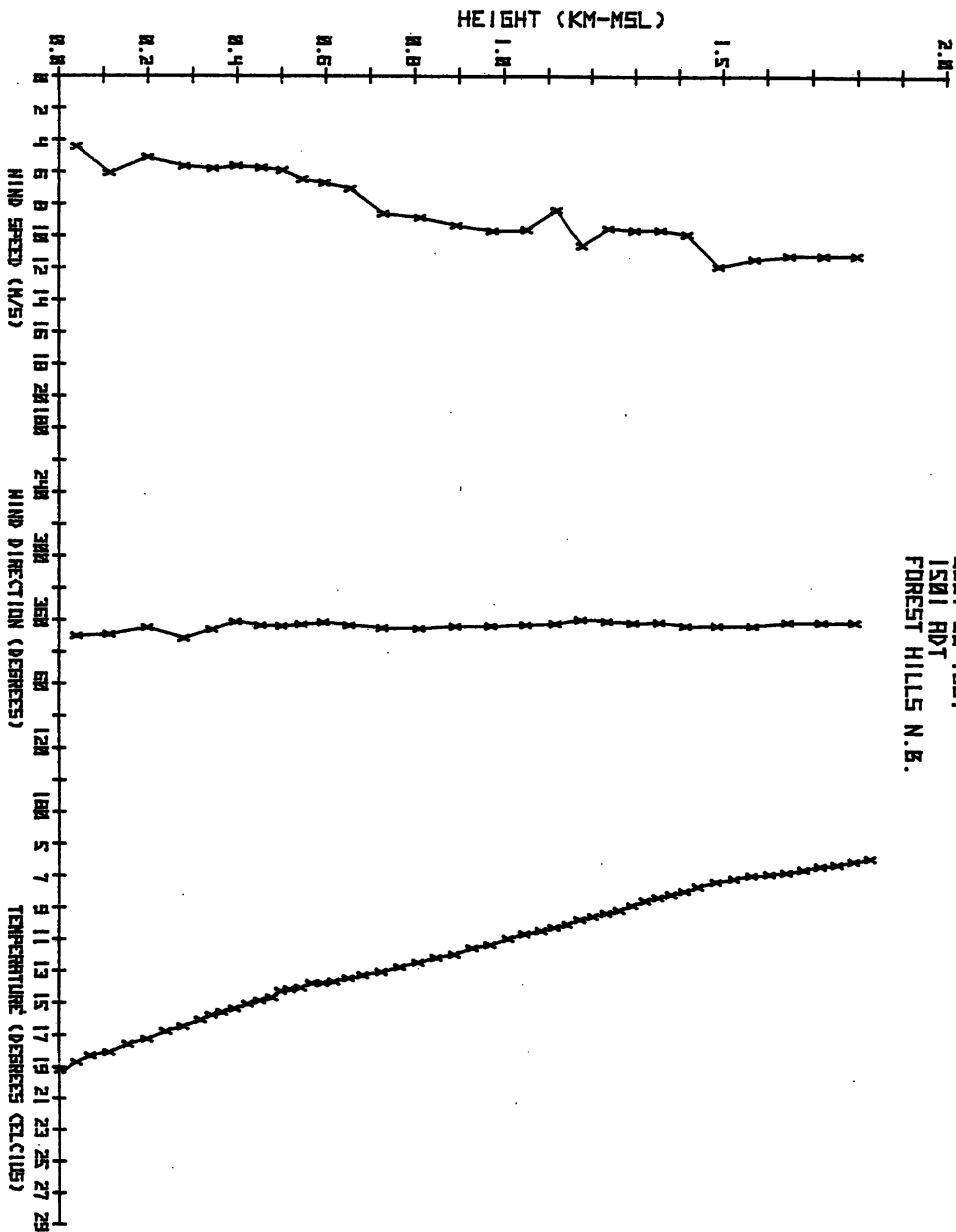
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 4

DATE JULY 30 1981 TIME 1501 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	8			19.3	SURFACE CONDITIONS	
1	39	4.4	15	18.7	70	18.3
2	113	6.1	14	18.1	156	17.6
3	199	5.1	7	17.3	242	16.8
4	281	5.7	18	16.5	320	16.1
5	345	5.8	9	15.8	369	15.6
6	398	5.6	2	15.4	427	15.1
7	454	5.8	6	14.9	481	14.7
8	502	5.9	6	14.3	522	14.2
9	547	6.5	5	14.1	572	13.8
10	597	6.7	3	13.8	622	13.7
11	654	7.1	6	13.5	687	13.3
12	729	8.6	8	13.1	770	12.8
13	812	8.9	9	12.5	853	12.2
14	893	9.4	6	12.0	933	11.6
15	973	9.7	6	11.4	1013	11.0
16	1051	9.6	5	10.7	1088	10.5
17	1118	8.4	4	10.3	1148	10.1
18	1178	10.6	360	9.8	1208	9.6
19	1238	9.5	2	9.4	1268	9.2
20	1298	9.6	3	8.9	1328	8.6
21	1358	9.6	3	8.4	1388	8.2
22	1418	9.9	6	8.0	1448	7.7
23	1490	11.9	5	7.4	1532	7.2
24	1572	11.4	5	7.0	1613	6.9
25	1650	11.2	2	6.8	1687	6.6
26	1724	11.2	2	6.4	1761	6.3
27	1799	11.2	2	6.1	1836	5.9
28	1873	11.2	2	5.6	1910	5.4

JULY 30 1981
1501 RD
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 18

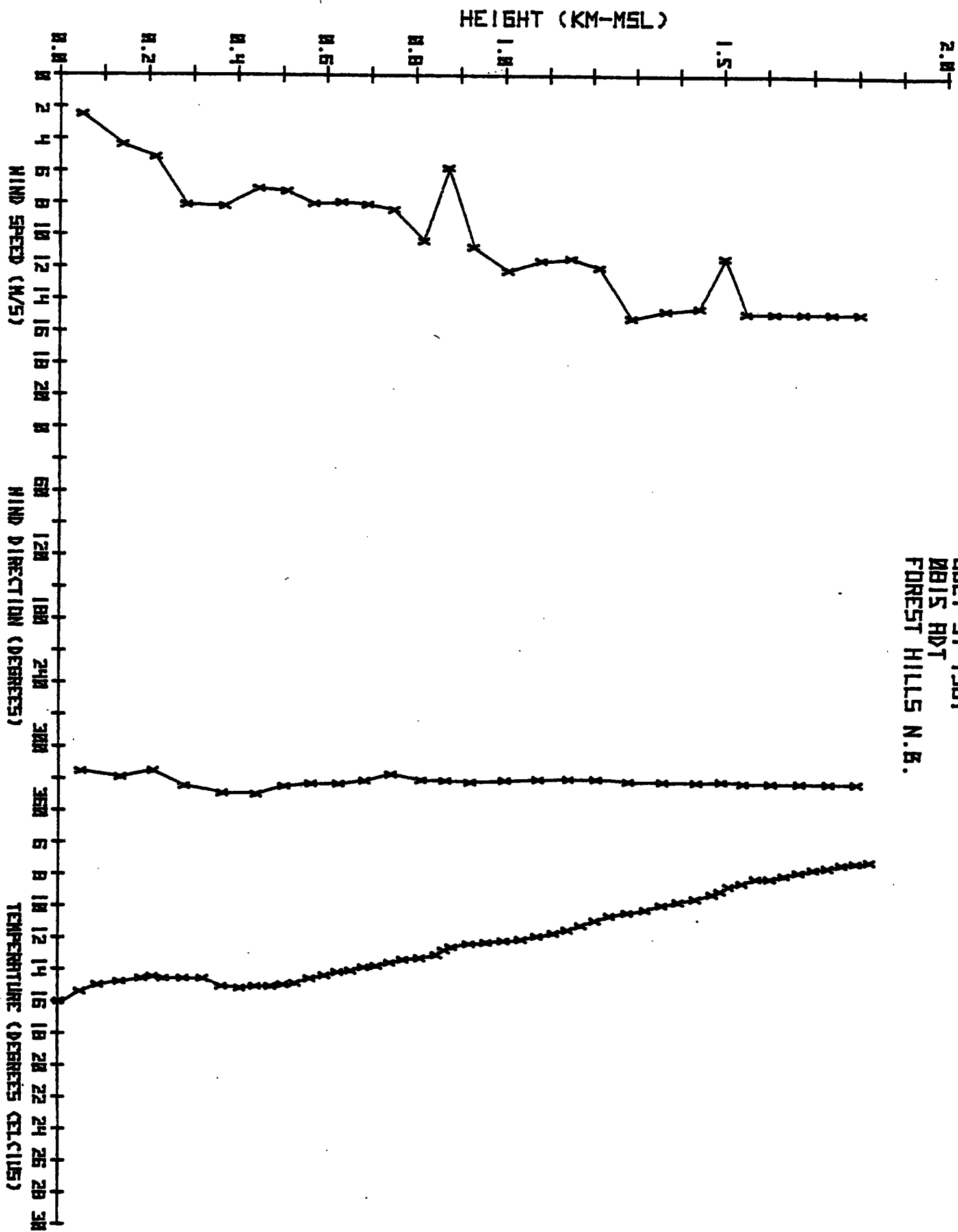
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 1.

DATE JULY 31 1981 TIME 0815 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	9			16.1	SURFACE CONDITIONS	
1	49	2.5	323	15.4	90	15.0
2	140	4.4	329	14.8	189	14.6
3	214	5.2	323	14.5	239	14.6
4	283	8.1	337	14.6	328	14.6
5	370	8.2	344	15.1	412	15.2
6	447	7.1	345	15.1	481	15.1
7	509	7.3	337	15.0	537	14.9
8	570	8.0	335	14.6	603	14.4
9	633	8.0	335	14.2	663	14.1
10	692	8.1	332	13.9	720	13.8
11	750	8.4	326	13.6	780	13.4
12	818	10.4	331	13.3	856	13.1
13	873	5.8	332	12.8	890	12.6
14	929	10.8	333	12.4	968	12.3
15	1007	12.2	331	12.2	1046	12.1
16	1083	11.6	330	11.9	1120	11.7
17	1152	11.5	330	11.5	1184	11.2
18	1216	12.0	330	10.9	1248	10.6
19	1290	15.2	332	10.4	1331	10.2
20	1369	14.7	332	9.9	1406	9.7
21	1445	14.5	333	9.5	1484	9.2
22	1503	11.4	332	9.0	1521	8.7
23	1553	14.8	333	8.5	1585	8.2
24	1616	14.8	333	8.2	1648	8.0
25	1679	14.8	333	7.8	1711	7.6
26	1743	14.8	333	7.5	1774	7.3
27	1806	14.8	333	7.2	1837	7.1
28	1869	14.8	333	7.0	1900	6.9

JULY 31 1981
 0815 PDT
 FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 6 - 20

STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 2

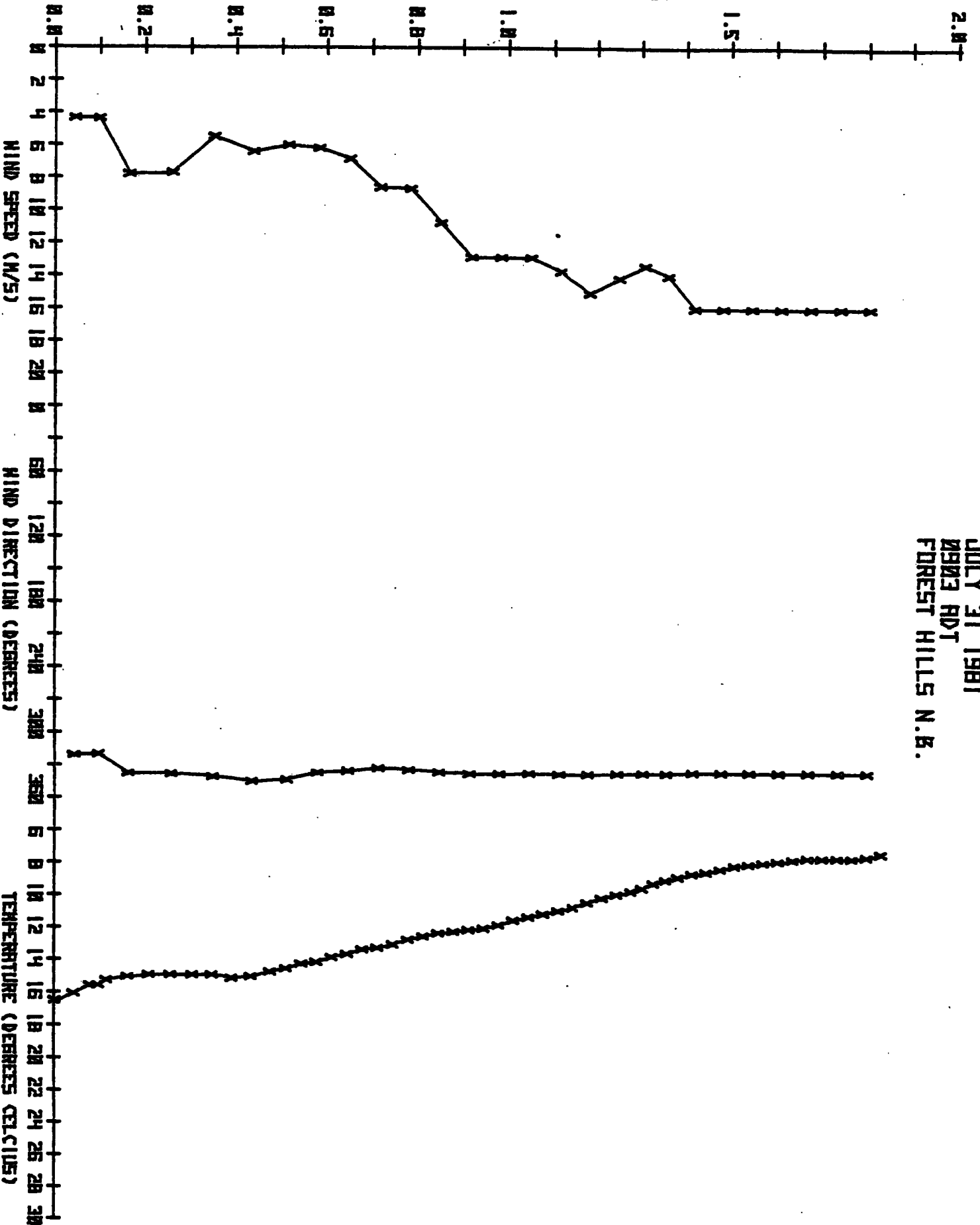
DATE JULY 31 1981 TIME 0903 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	8			16.6	SURFACE CONDITIONS	
1	44	4.4	321	16.1	80	15.6
2	99	4.4	320	15.6	117	15.3
3	164	7.8	338	15.1	211	15.0
4	260	7.7	339	15.0	308	15.0
5	352	5.5	341	15.0	395	15.2
6	438	6.4	346	15.1	481	14.8
7	515	6.0	344	14.6	550	14.3
8	583	6.2	337	14.2	617	13.9
9	650	6.9	336	13.7	684	13.4
10	718	8.6	333	13.3	752	13.1
11	785	8.7	335	12.8	819	12.6
12	852	10.7	337	12.4	886	12.3
13	919	12.9	338	12.2	952	12.1
14	985	12.9	338	11.9	1019	11.6
15	1052	12.9	338	11.4	1085	11.2
16	1118	13.7	338	11.0	1151	10.8
17	1184	15.1	338	10.5	1217	10.2
18	1250	14.1	338	10.0	1283	9.8
19	1308	13.4	337	9.6	1333	9.3
20	1361	14.0	338	9.1	1388	8.9
21	1420	16.0	337	8.7	1452	8.6
22	1484	16.0	337	8.4	1516	8.2
23	1548	16.0	337	8.1	1580	8.0
24	1612	16.0	337	7.9	1644	7.8
25	1676	16.0	337	7.7	1708	7.7
26	1740	16.0	337	7.7	1772	7.7
27	1804	16.0	337	7.6	1837	7.4
28	1869	16.0	337	7.3	1901	7.1

JULY 31 1981
0903 ADT
FOREST HILLS N.B.

HEIGHT (KM-MSL)



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 2

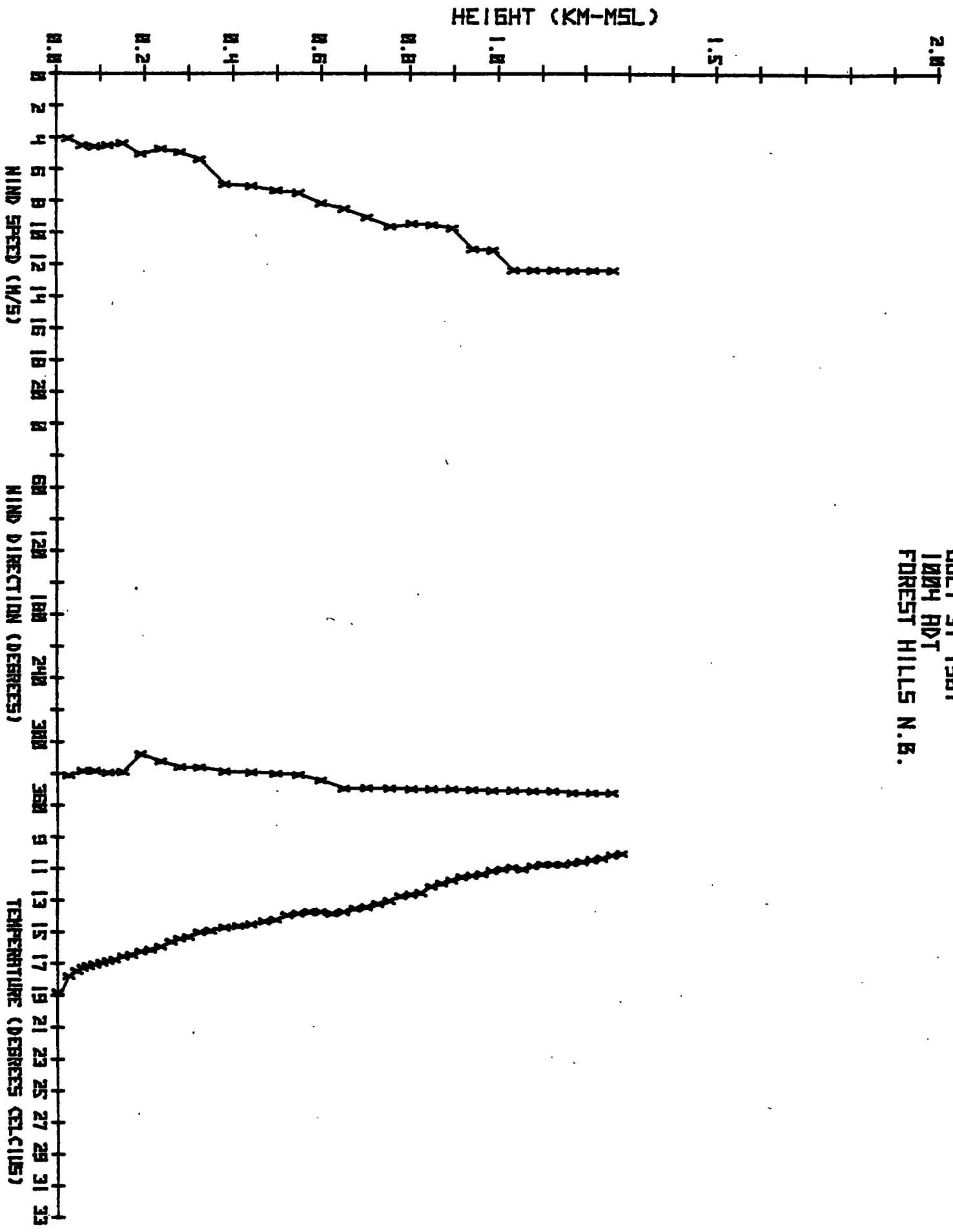
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 3

DATE JULY 31 1981 TIME 1004 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	7			18.9	SURFACE CONDITIONS	
1	26	4.1	332	17.8	45	17.5
2	57	4.5	328	17.3	70	17.2
3	85	4.6	328	17.1	101	17.0
4	115	4.5	329	16.9	130	16.8
5	149	4.4	329	16.6	169	16.5
6	190	5.1	312	16.3	212	16.2
7	236	4.7	319	16.0	259	15.7
8	279	5.0	324	15.5	299	15.4
9	324	5.4	325	15.1	350	15.0
10	381	7.0	329	14.8	412	14.7
11	442	7.1	329	14.6	472	14.4
12	498	7.4	331	14.3	523	14.0
13	548	7.6	332	13.9	574	13.8
14	599	8.2	337	13.8	625	13.9
15	651	8.5	345	13.8	677	13.6
16	703	9.1	344	13.5	729	13.3
17	755	9.7	345	13.1	781	12.8
18	803	9.5	345	12.7	826	12.6
19	849	9.5	345	12.2	872	12.0
20	895	9.7	345	11.8	918	11.6
21	941	11.0	346	11.5	964	11.4
22	987	11.1	347	11.2	1010	11.1
23	1033	12.4	347	11.0	1056	11.1
24	1079	12.4	347	10.9	1102	10.8
25	1125	12.4	347	10.8	1148	10.8
26	1171	12.4	349	10.7	1194	10.6
27	1217	12.4	349	10.5	1240	10.4
28	1263	12.4	349	10.2	1286	10.1

JULY 31 1981
 1004 PDT
 FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 3

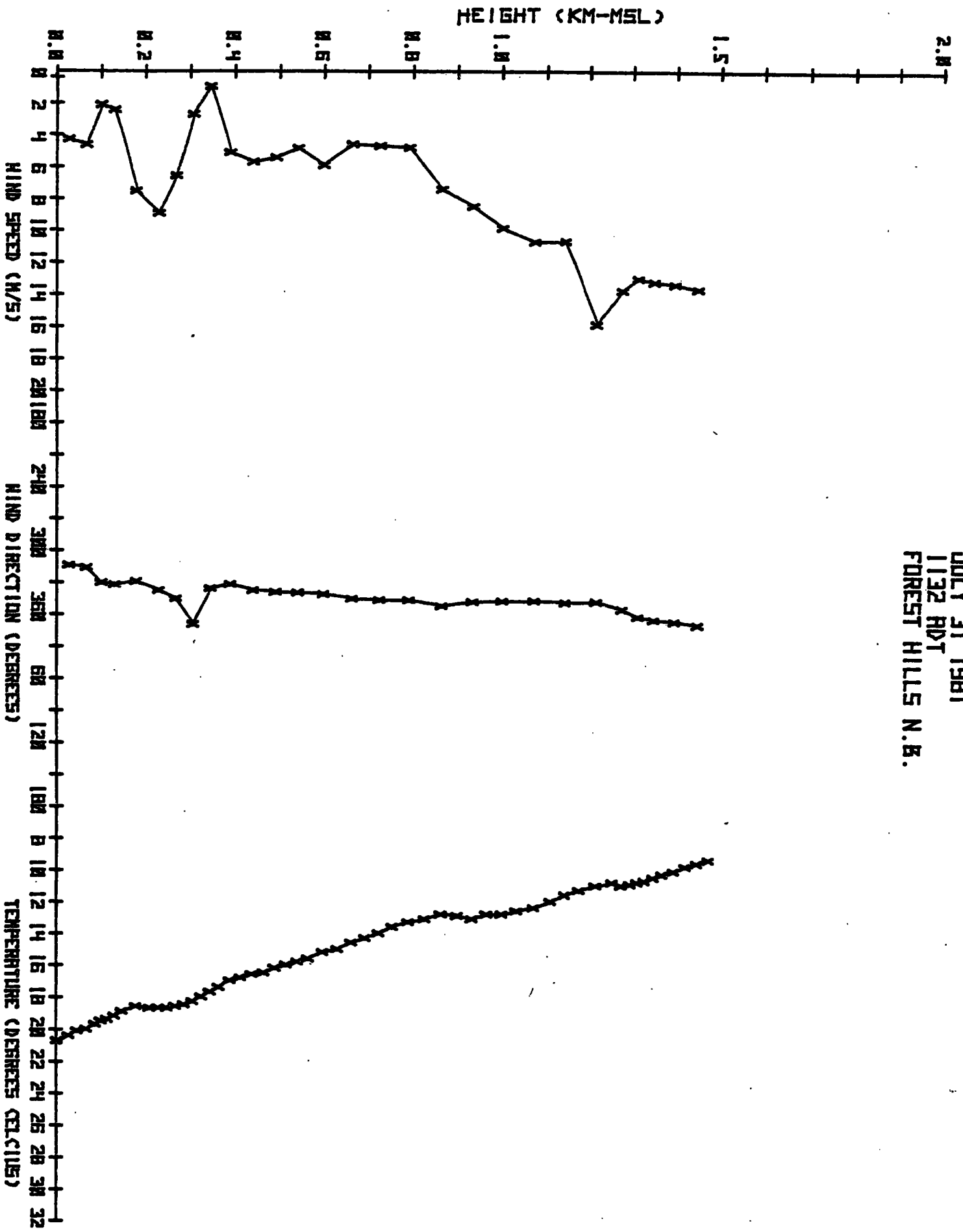
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 4

DATE JULY 31 1981 TIME 1132 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	8			20.8	SURFACE CONDITIONS	
1	27	4.3	314	20.4	46	20.1
2	67	4.6	317	20.0	88	19.7
3	101	2.1	331	19.5	114	19.4
4	131	2.4	332	19.2	148	18.9
5	179	7.5	329	18.6	210	18.7
6	230	8.9	338	18.7	249	18.7
7	268	6.6	346	18.6	288	18.5
8	307	2.7	10	18.3	326	18.0
9	346	1.0	336	17.7	366	17.4
10	391	5.1	332	17.0	415	16.8
11	441	5.7	338	16.6	467	16.5
12	492	5.4	339	16.2	518	16.0
13	542	4.8	340	15.8	567	15.6
14	600	5.9	341	15.2	633	15.0
15	664	4.6	345	14.6	695	14.3
16	725	4.7	347	14.0	756	13.6
17	792	4.8	347	13.3	829	13.1
18	865	7.4	352	12.8	902	12.9
19	934	8.5	348	13.1	967	12.8
20	1001	9.8	348	12.8	1035	12.6
21	1073	10.7	347	12.4	1111	12.0
22	1145	10.6	349	11.6	1178	11.3
23	1216	15.9	348	11.0	1254	10.8
24	1275	13.7	355	11.0	1296	10.9
25	1312	13.0	2	10.8	1328	10.7
26	1348	13.2	5	10.5	1369	10.3
27	1395	13.3	7	10.1	1422	9.8
28	1448	13.6	10	9.6	1475	9.4

JULY 31 1981
1132 RDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 4

STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 5

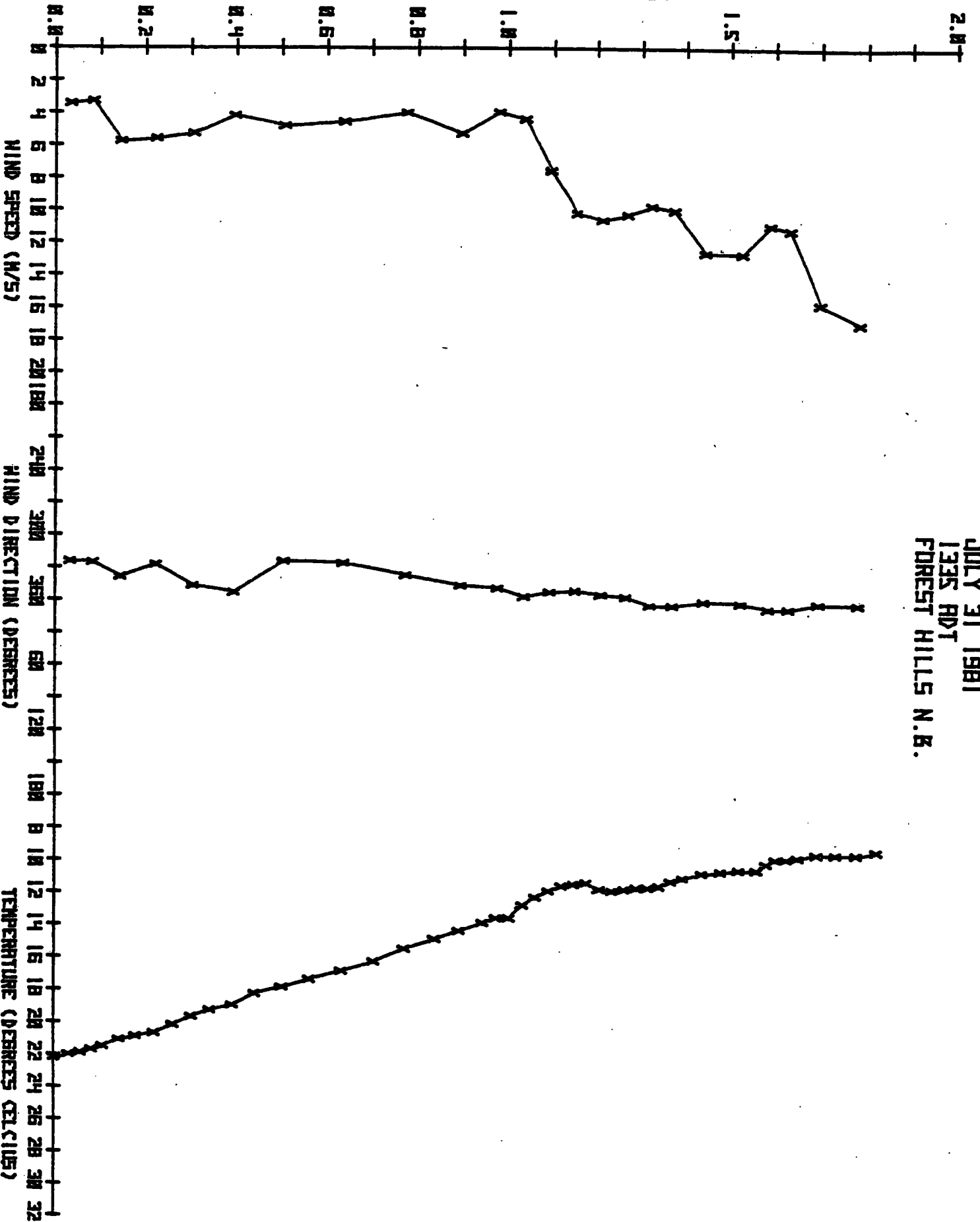
DATE JULY 31 1981 TIME 1335 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	7			22.3	SURFACE CONDITIONS	
1	33	3.4	325	22.0	59	21.9
2	83	3.3	326	21.7	108	21.5
3	145	5.8	339	21.1	181	20.9
4	223	5.6	328	20.7	265	20.2
5	305	5.3	347	19.7	346	19.3
6	396	4.2	353	19.0	446	18.3
7	506	4.8	324	17.9	566	17.4
8	637	4.6	326	16.9	708	16.3
9	776	4.0	337	15.5	843	14.9
10	896	5.3	346	14.4	949	13.9
11	978	3.9	349	13.6	1007	13.6
12	1037	4.4	356	12.8	1066	12.3
13	1095	7.6	352	11.9	1124	11.6
14	1153	10.2	351	11.5	1182	11.4
15	1211	10.6	355	11.8	1240	11.9
16	1268	10.3	357	11.8	1295	11.7
17	1321	9.7	4	11.7	1346	11.6
18	1373	10.0	5	11.3	1400	11.1
19	1443	12.6	1	10.8	1486	10.7
20	1527	12.7	3	10.6	1567	10.6
21	1588	10.9	7	10.2	1609	9.9
22	1633	11.2	8	9.9	1657	9.8
23	1698	15.8	3	9.6	1739	9.6
24	1784	17.0	4	9.6	1829	9.4
25	1874	17.0	4	9.2	1919	9.0
26	1962	16.3	4	8.8	2005	8.6
27	2042	14.7	4	8.4	2079	8.2
28	2116	14.7	4	8.0	2153	7.9

JULY 31 1981
1335 PDT
FOREST HILLS N.B.

HEIGHT (KM-MSL)



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 5

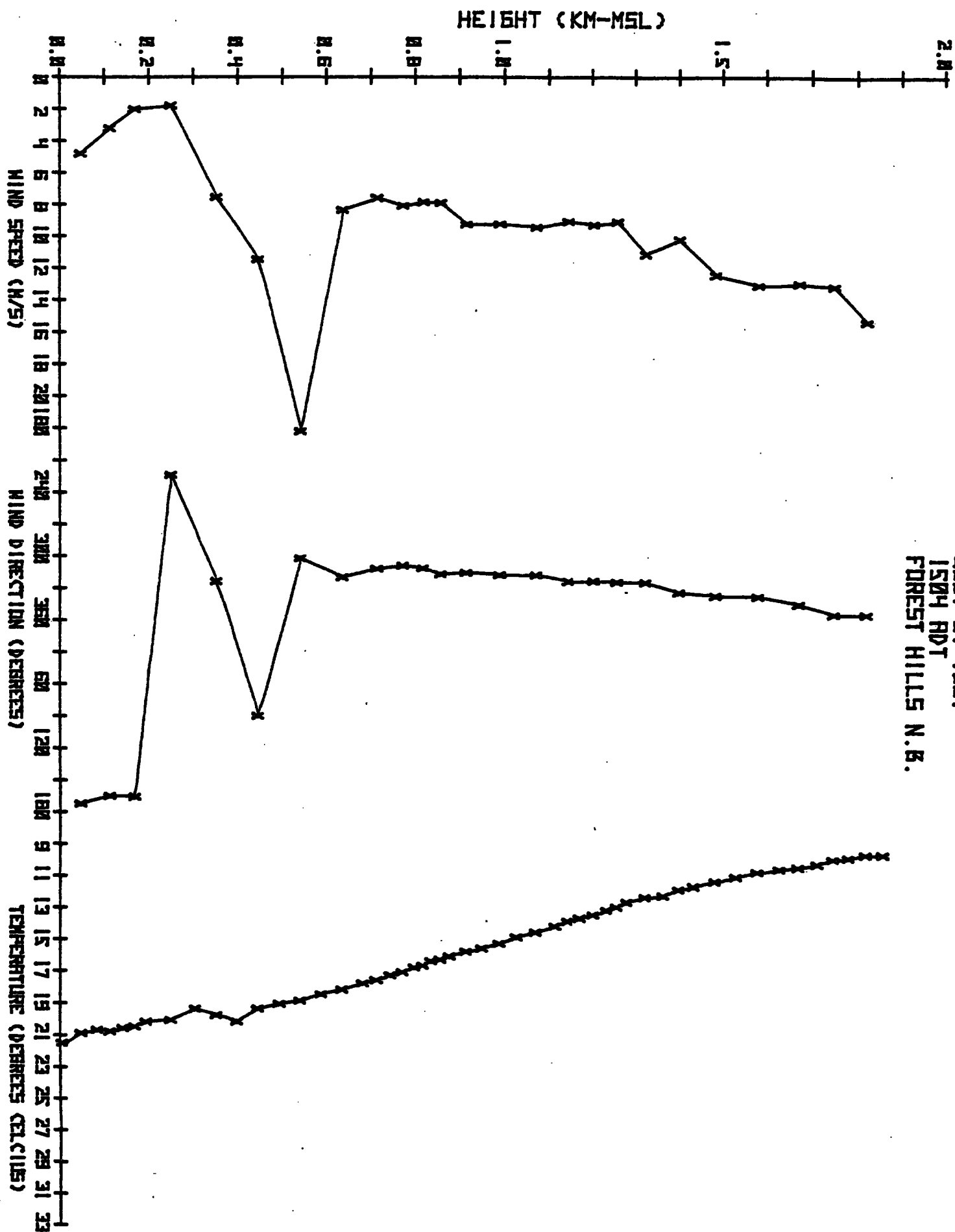
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 6

DATE JULY 31 1981 TIME 1504 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	11			21.6	SURFACE CONDITIONS	
1	47	4.8	173	20.9	83	20.7
2	112	3.2	165	20.8	141	20.6
3	167	2.0	166	20.5	193	20.2
4	249	1.8	224	20.1	305	19.4
5	352	7.6	324	19.8	400	20.2
6	447	11.4	90	19.4	495	19.1
7	542	22.2	302	18.9	589	18.5
8	636	8.4	320	18.2	683	17.8
9	714	7.6	312	17.6	745	17.3
10	772	8.1	309	17.1	799	16.8
11	818	7.9	312	16.7	837	16.4
12	857	7.9	317	16.3	878	16.1
13	914	9.2	316	15.8	950	15.6
14	989	9.2	318	15.3	1028	14.9
15	1072	9.4	318	14.6	1115	14.2
16	1144	9.1	324	13.9	1173	13.7
17	1204	9.3	323	13.5	1234	13.2
18	1257	9.1	324	13.0	1281	12.7
19	1323	11.1	325	12.4	1365	12.3
20	1400	10.2	334	11.9	1434	11.7
21	1483	12.4	337	11.4	1532	11.1
22	1581	13.0	338	10.8	1630	10.6
23	1672	12.9	345	10.5	1713	10.3
24	1748	13.1	355	10.0	1783	9.9
25	1822	15.3	355	9.7	1861	9.7
26	1893	15.8	3	9.6	1926	9.5
27	1958	15.9	3	9.4	1991	9.2
28	2023	15.9	3	8.9	2056	8.8

JULY 31 1981
1504 PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 6

STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 1

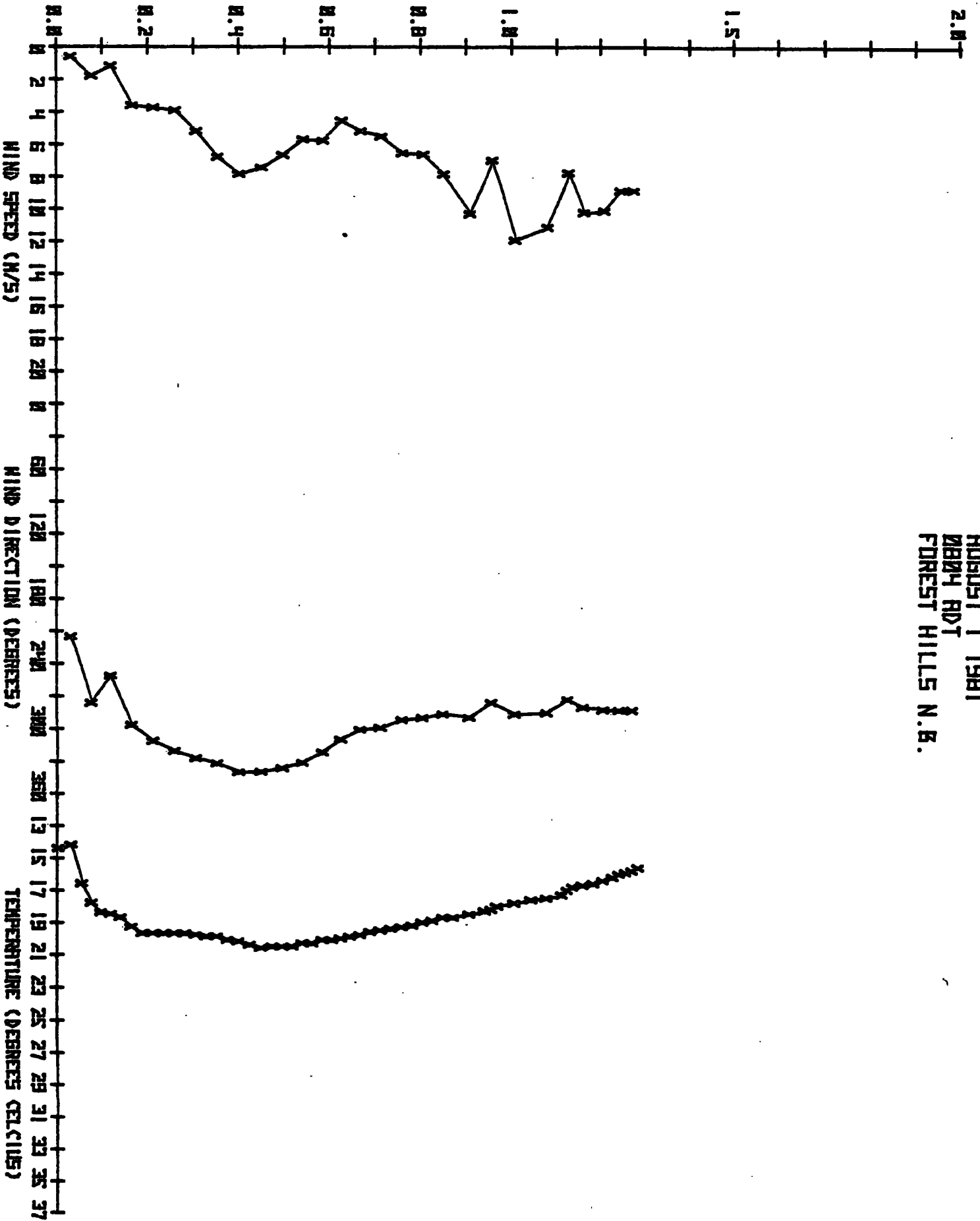
DATE AUGUST 1 1981 TIME 0804 ADT

BLINE 259.2 GPA 0.3 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	8			14.5	SURFACE CONDITIONS	
1	31	0.6	215	14.2	54	16.6
2	76	1.8	277	17.8	97	18.4
3	119	1.2	251	18.5	141	18.7
4	164	3.6	297	19.3	188	19.7
5	212	3.8	312	19.7	236	19.7
6	260	3.9	321	19.7	283	19.7
7	307	5.2	328	19.8	330	19.9
8	354	6.8	332	19.9	377	20.1
9	402	7.9	340	20.2	427	20.4
10	451	7.5	340	20.6	476	20.5
11	498	6.7	337	20.5	520	20.5
12	542	5.7	331	20.3	564	20.3
13	586	5.8	322	20.1	608	20.1
14	627	4.6	310	20.0	646	19.9
15	669	5.2	301	19.8	691	19.6
16	714	5.6	299	19.5	736	19.4
17	760	6.6	292	19.3	784	19.2
18	806	6.6	290	19.0	829	18.9
19	851	7.9	287	18.7	874	18.7
20	909	10.3	290	18.5	944	18.3
21	958	7.0	276	18.2	971	18.0
22	1009	11.9	287	17.8	1047	17.6
23	1081	11.1	285	17.5	1114	17.3
24	1127	7.8	273	17.0	1140	16.8
25	1163	10.2	280	16.7	1187	16.6
26	1209	10.1	282	16.4	1231	16.2
27	1245	8.9	283	16.0	1260	15.9
28	1274	8.9	283	15.8	1289	15.6

AUGUST 1 1981
 0804 EDT
 FOREST HILLS N.B.

HEIGHT (KM-MSL)



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 8

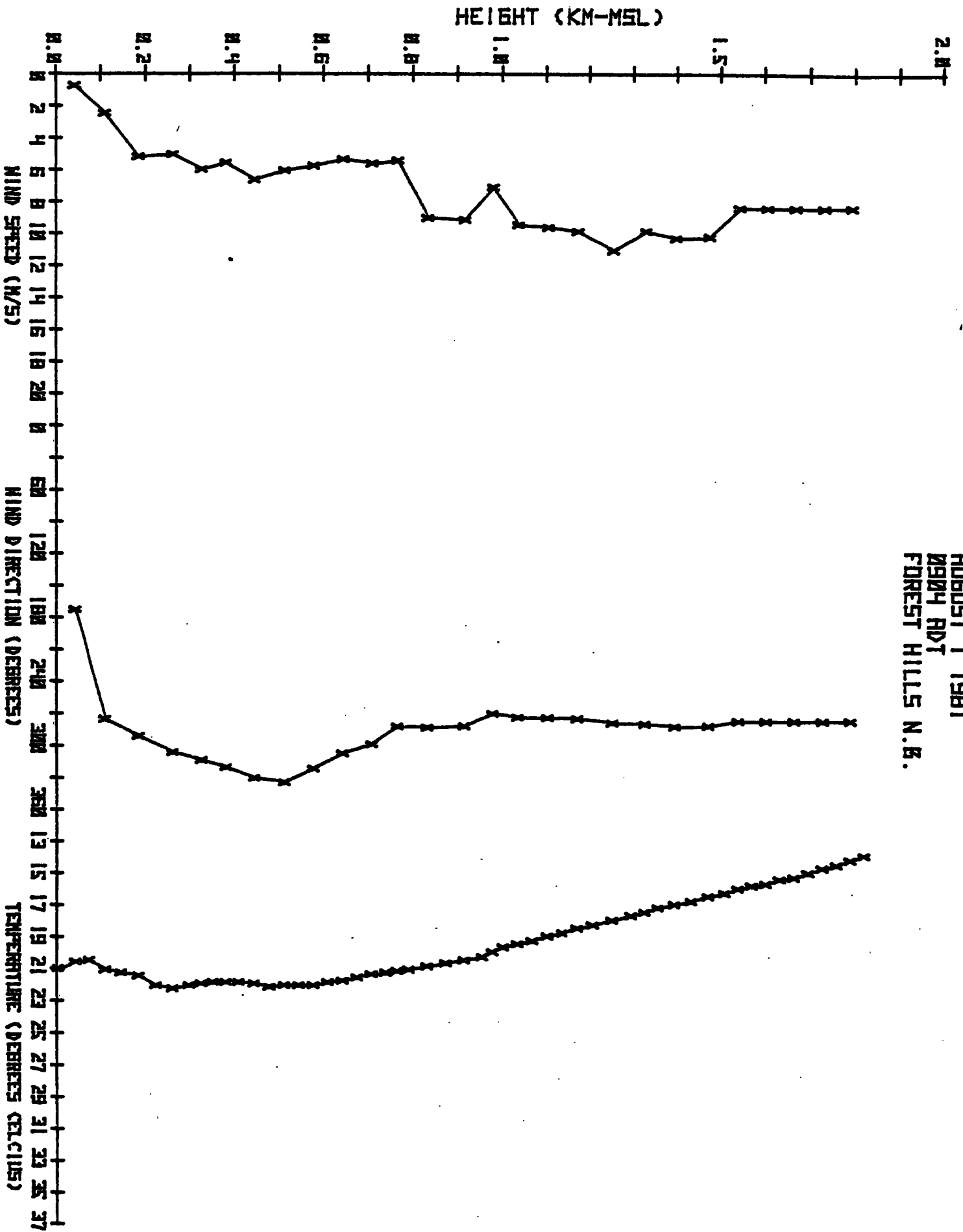
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 3

DATE AUGUST 1 1981 TIME 1007 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	8			19.9	SURFACE CONDITIONS	
1	50	2.6	183	19.3	93	19.5
2	131	2.7	260	20.5	170	21.1
3	208	3.9	284	20.9	245	20.6
4	284	4.7	287	20.3	322	20.0
5	360	6.2	298	20.0	398	20.0
6	436	5.4	314	20.3	475	20.7
7	513	5.4	314	20.9	551	20.7
8	590			20.5	628	20.2
9	667			20.0	706	19.8
10	745			19.6	783	19.3
11	822			19.0	861	18.8
12	900			18.4	939	18.1
13	977			17.8	1016	17.5
14	1055			17.4	1094	17.1
15	1132			16.8	1171	16.5
16	1210			16.2	1249	15.9
17	1287			15.6	1326	15.3
18	1365			15.1	1404	14.8
19	1442			14.5	1481	14.1
20	1520			13.9	1559	13.5
21	1598			13.3	1636	13.0
22	1675			12.7	1714	12.4
23	1753			12.1	1791	11.7
24	1830			11.5	1869	11.2
25	1908			10.9	1946	10.7
26	1985			10.5	2024	10.1
27	2063			9.8	2101	9.5
28	2140			9.2	2179	8.9

AUGUST 1 1981
0904 PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 9

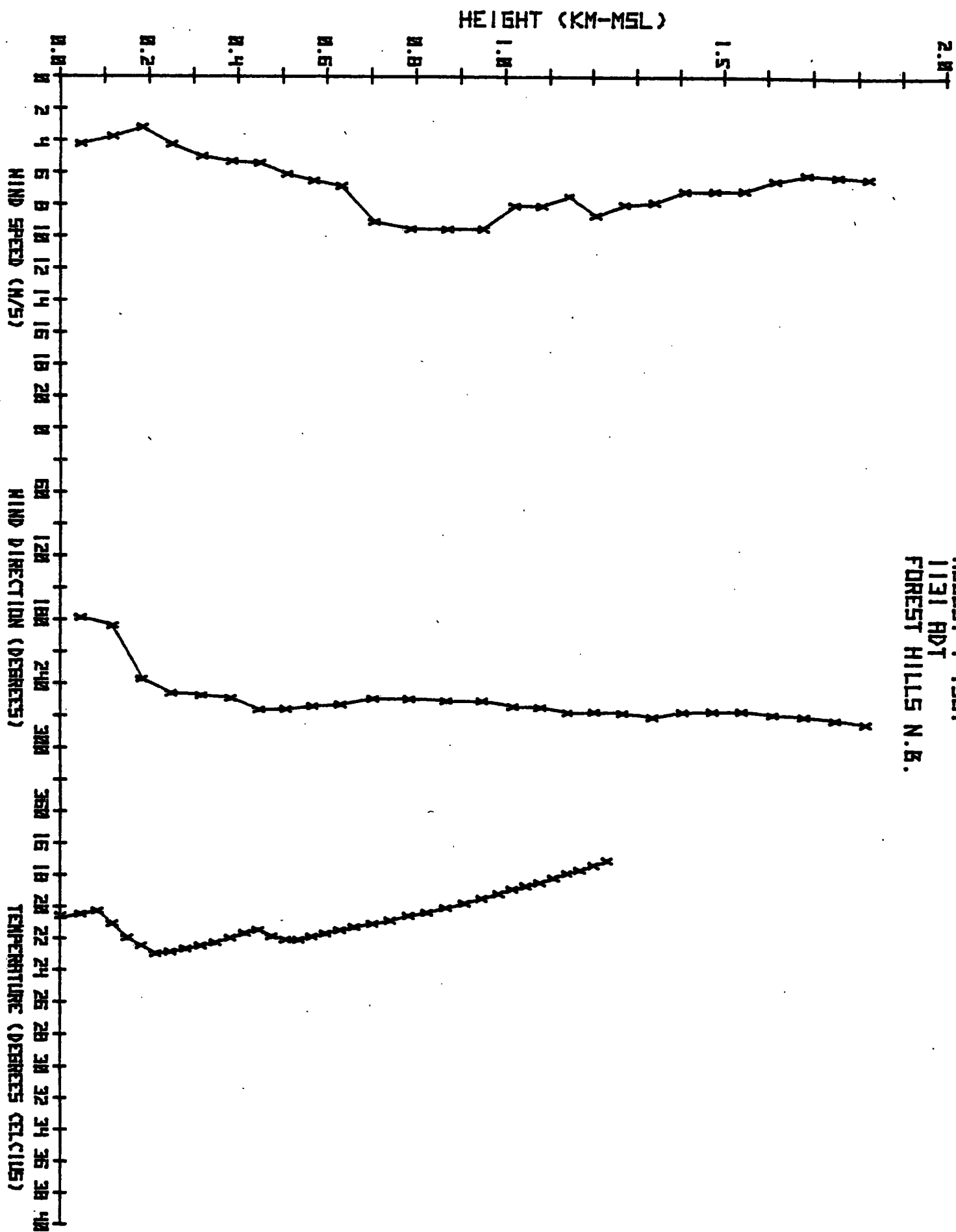
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 4

DATE AUGUST 1 1981 TIME 1131 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	9			20.7	SURFACE CONDITIONS	
1	48	4.2	178	20.5	86	20.3
2	120	3.8	186	21.1	153	22.0
3	185	3.2	236	22.5	217	23.0
4	251	4.3	249	22.9	286	22.7
5	320	5.0	252	22.5	353	22.3
6	387	5.3	254	22.0	420	21.7
7	451	5.5	265	21.5	481	21.9
8	511	6.1	264	22.1	541	22.1
9	572	6.6	262	21.9	602	21.7
10	634	6.9	260	21.5	667	21.3
11	707	9.1	255	21.1	747	20.9
12	789	9.6	255	20.6	830	20.4
13	872	9.6	257	20.1	914	19.8
14	952	9.5	257	19.5	990	19.2
15	1022	8.1	262	18.9	1053	18.7
16	1084	8.1	262	18.5	1115	18.2
17	1146	7.5	267	17.9	1177	17.7
18	1208	8.7	267	17.4	1239	17.1
19	1273	8.0	268	M		
20	1342	7.9	271	M		
21	1411	7.2	267	M		
22	1480	7.2	266	M		
23	1549	7.1	265	M		
24	1618	6.5	269	M		
25	1687	6.1	271	M		
26	1755	6.2	274	M		
27	1824	6.4	278	M		
28	1893	6.5	280	M		

AUGUST 1 1981
1131 PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 10

STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 5

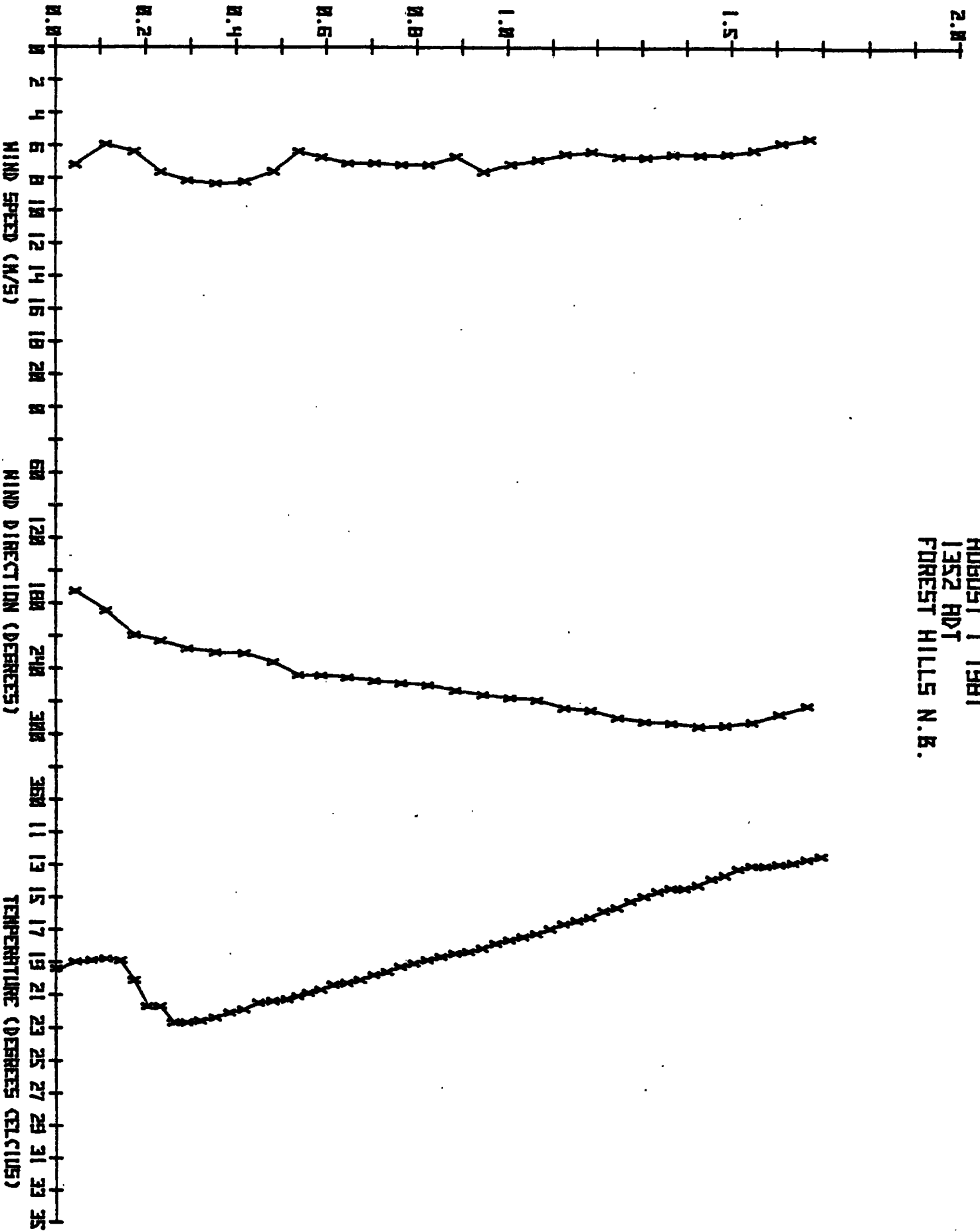
DATE AUGUST 1 1981 TIME 1352 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	8			19.5	SURFACE CONDITIONS	
1	44	7.2	169	19.0	80	18.9
2	112	6.0	187	18.8	145	18.9
3	174	6.4	210	20.1	204	21.7
4	233	7.6	215	21.7	263	22.7
5	292	8.2	222	22.7	322	22.6
6	354	8.4	226	22.4	387	22.1
7	419	8.2	227	21.9	451	21.5
8	483	7.6	235	21.4	515	21.3
9	539	6.4	246	21.1	562	20.9
10	590	6.7	247	20.7	617	20.4
11	647	7.1	249	20.3	677	20.1
12	706	7.1	252	19.8	736	19.6
13	766	7.2	254	19.3	796	19.1
14	826	7.2	256	18.9	856	18.7
15	886	6.7	260	18.5	916	18.4
16	946	7.6	264	18.2	976	17.9
17	1006	7.2	267	17.7	1037	17.5
18	1067	6.9	269	17.3	1097	17.0
19	1127	6.5	276	16.7	1157	16.5
20	1188	6.4	279	16.3	1218	15.9
21	1248	6.7	285	15.7	1278	15.3
22	1309	6.8	289	15.0	1339	14.7
23	1369	6.6	290	14.5	1399	14.5
24	1429	6.6	293	14.3	1460	13.9
25	1490	6.6	292	13.7	1520	13.3
26	1550	6.3	289	13.1	1581	13.1
27	1611	5.9	282	13.0	1641	12.9
28	1671	5.6	274	12.7	1702	12.5

AUGUST 1 1981
1352 ADT
FOREST HILLS N.B.

HEIGHT (KM-MSL)



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 11

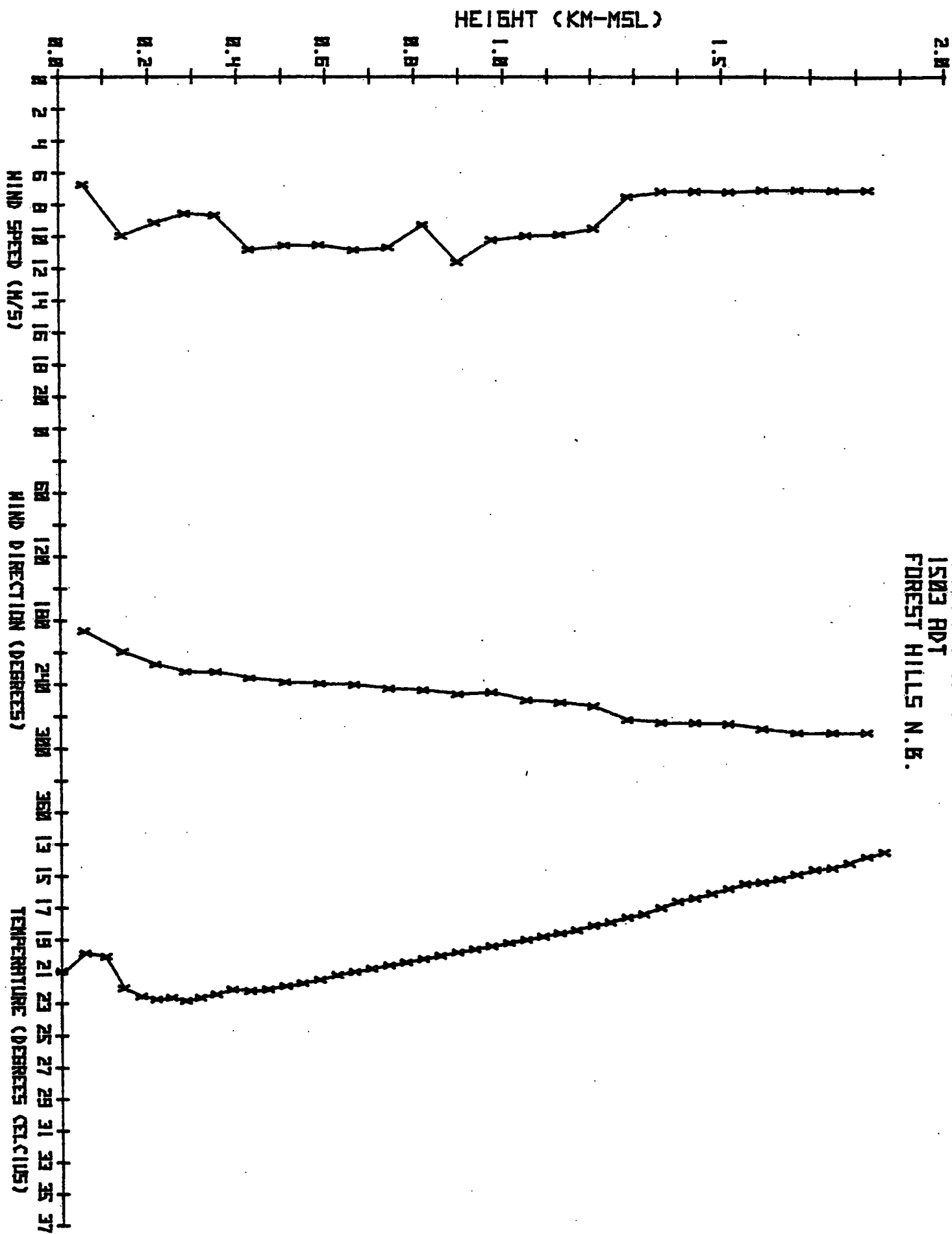
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 6

DATE AUGUST 1 1981 TIME 1503 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	6			21.1	SURFACE CONDITIONS	
1	54	6.8	190	19.9	101	20.1
2	141	10.0	210	22.1	181	22.6
3	215	9.1	222	22.8	249	22.7
4	282	8.6	229	22.9	315	22.7
5	351	8.7	229	22.5	387	22.2
6	428	10.8	235	22.3	469	22.2
7	508	10.6	239	22.0	547	21.8
8	586	10.5	240	21.6	625	21.3
9	664	10.9	241	21.1	703	20.9
10	741	10.7	245	20.7	780	20.5
11	819	9.3	246	20.3	858	20.1
12	897	11.6	250	19.9	936	19.7
13	974	10.2	248	19.5	1013	19.3
14	1052	10.0	256	19.1	1091	18.9
15	1129	9.9	258	18.7	1168	18.5
16	1207	9.5	262	18.2	1246	18.0
17	1284	7.5	274	17.7	1323	17.5
18	1362	7.2	277	17.1	1401	16.7
19	1439	7.2	277	16.5	1478	16.2
20	1517	7.3	278	15.9	1555	15.6
21	1594	7.1	283	15.5	1633	15.3
22	1672	7.1	287	15.0	1710	14.7
23	1749	7.1	287	14.6	1788	14.3
24	1827	7.1	287	13.9	1865	13.6
25	1904	7.1	286	13.3	1943	13.1
26	1981	6.7	280	12.7	2020	12.4
27	2059	6.6	277	12.1	2098	11.9
28	2136	6.5	276	11.6	2175	11.4

AUGUST 1 1981
1503 PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 12

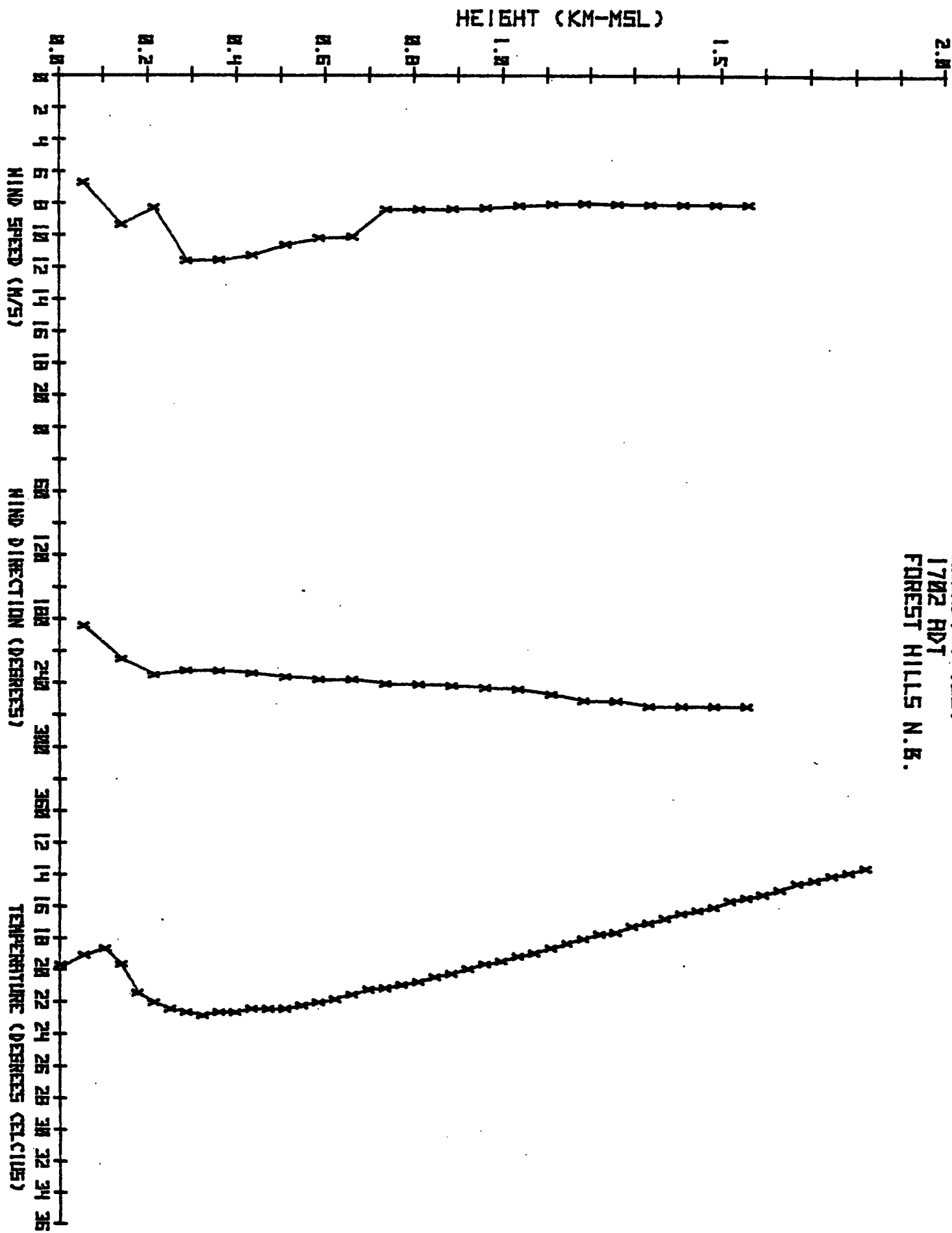
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 7

DATE AUGUST 1 1981 TIME 1702 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	7			19.8	SURFACE CONDITIONS	
1	55	6.7	187	19.1	103	18.7
2	140	9.4	218	19.7	177	21.5
3	214	8.3	233	22.1	251	22.5
4	287	11.6	229	22.7	324	22.9
5	361	11.6	229	22.7	398	22.7
6	436	11.3	232	22.5	473	22.5
7	511	10.6	235	22.5	548	22.3
8	586	10.2	238	22.1	624	21.9
9	661	10.1	238	21.6	699	21.3
10	736	8.4	242	21.2	774	21.0
11	811	8.4	242	20.8	849	20.5
12	886	8.4	243	20.3	924	20.0
13	961	8.3	245	19.7	999	19.5
14	1036	8.2	246	19.2	1074	19.0
15	1111	8.1	251	18.7	1149	18.4
16	1186	8.0	257	18.1	1224	17.8
17	1262	8.0	257	17.7	1299	17.3
18	1337	8.1	262	17.1	1374	16.8
19	1412	8.1	262	16.5	1449	16.3
20	1487	8.1	262	16.1	1524	15.7
21	1562	8.1	262	15.5	1599	15.3
22	1637			15.0	1675	14.6
23	1713			14.4	1751	14.1
24	1789			13.9	1827	13.6
25	1864			13.3	1902	13.1
26	1940			12.9	1978	12.6
27	2016			12.4	2054	12.2
28	2092			11.9	2130	11.8

AUGUST 1 1981
1702 ADT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 13

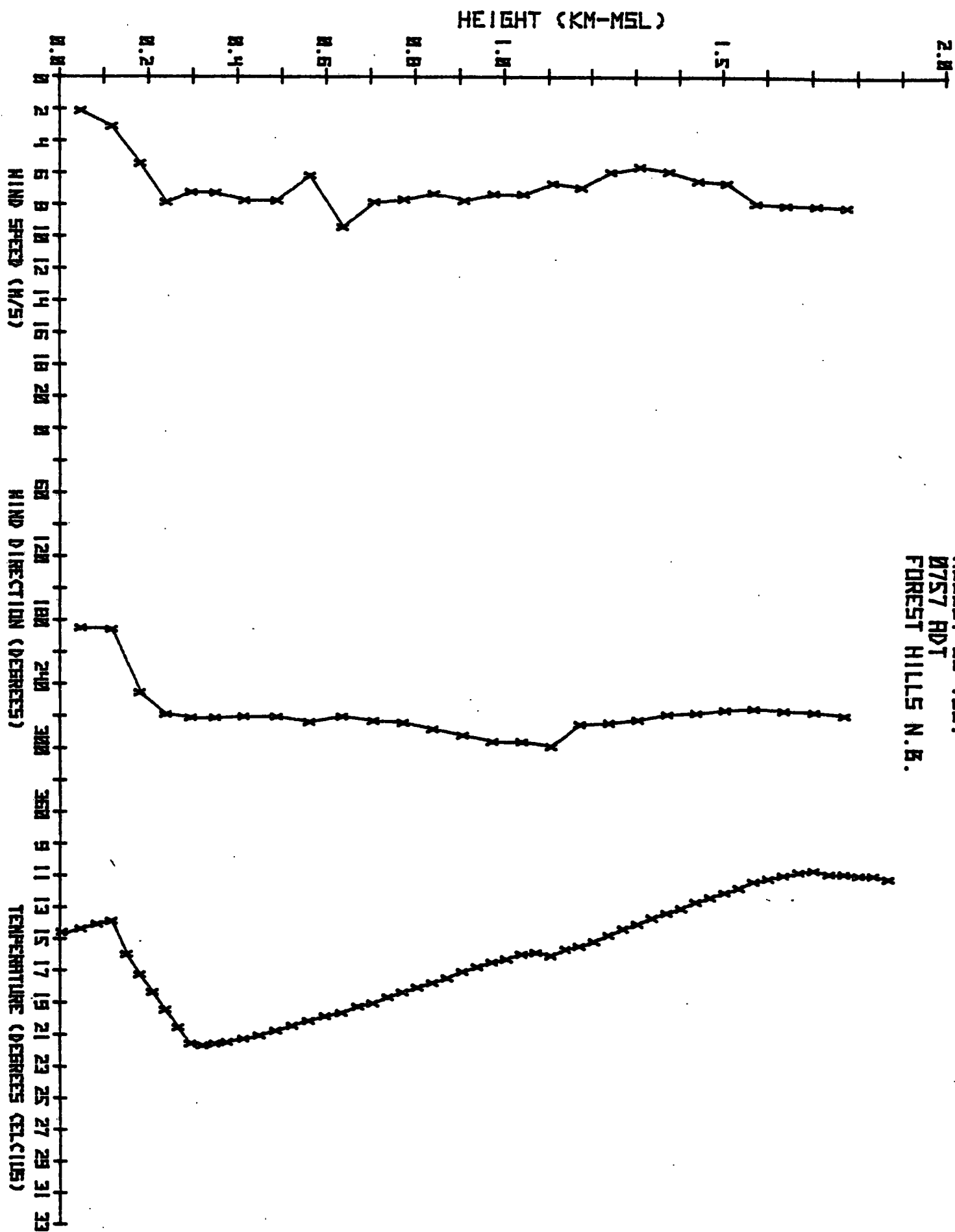
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 1

DATE AUGUST 02 1981 TIME 0757 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	11			14.7	SURFACE CONDITIONS	
1	47	2.1	188	14.4	83	14.1
2	117	3.1	189	13.9	151	16.0
3	181	5.5	249	17.3	211	18.4
4	240	7.9	269	19.5	268	20.6
5	296	7.3	272	21.6	323	21.7
6	351	7.3	272	21.6	379	21.5
7	416	7.8	271	21.3	453	21.1
8	490	7.8	271	20.8	527	20.5
9	564	6.2	276	20.2	601	19.9
10	637	9.5	271	19.7	674	19.3
11	708	7.9	275	19.1	741	18.7
12	775	7.7	277	18.4	809	18.1
13	842	7.3	283	17.8	876	17.5
14	909	7.8	289	17.1	943	16.8
15	976	7.4	295	16.5	1009	16.3
16	1043	7.4	295	16.0	1076	15.9
17	1109	6.7	299	16.1	1143	15.7
18	1176	7.0	278	15.5	1209	15.2
19	1243	6.0	277	14.8	1276	14.4
20	1309	5.6	274	14.1	1343	13.7
21	1376	5.9	269	13.4	1409	13.1
22	1442	6.5	267	12.7	1476	12.4
23	1509	6.7	264	12.1	1542	11.8
24	1576	7.9	263	11.4	1609	11.2
25	1642	8.0	265	11.0	1676	10.8
26	1709	8.0	266	10.7	1742	10.9
27	1775	8.1	270	10.9	1809	11.0
28	1842			11.0	1875	11.2

AUGUST 02 1981
0757 PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 14

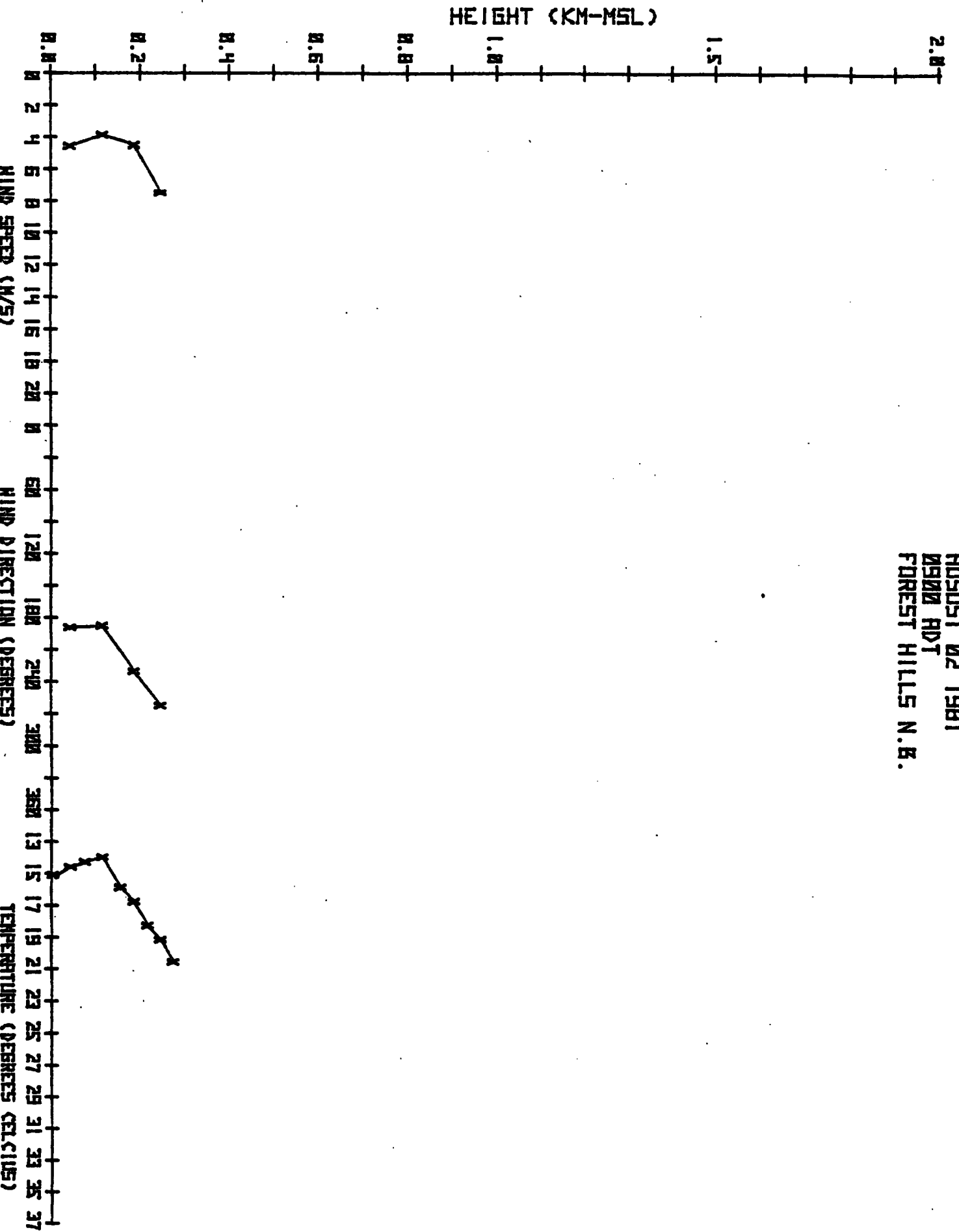
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 2

DATE AUGUST 02 1981 TIME 0900 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	10			15.2	SURFACE CONDITIONS	
1	42	4.6	190	14.6	75	14.3
2	115	3.9	188	14.0	155	15.9
3	185	4.5	231	16.8	216	18.3
4	245	7.5	263	19.2	274	20.6

AUGUST 02 1981
0900 ADT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 15

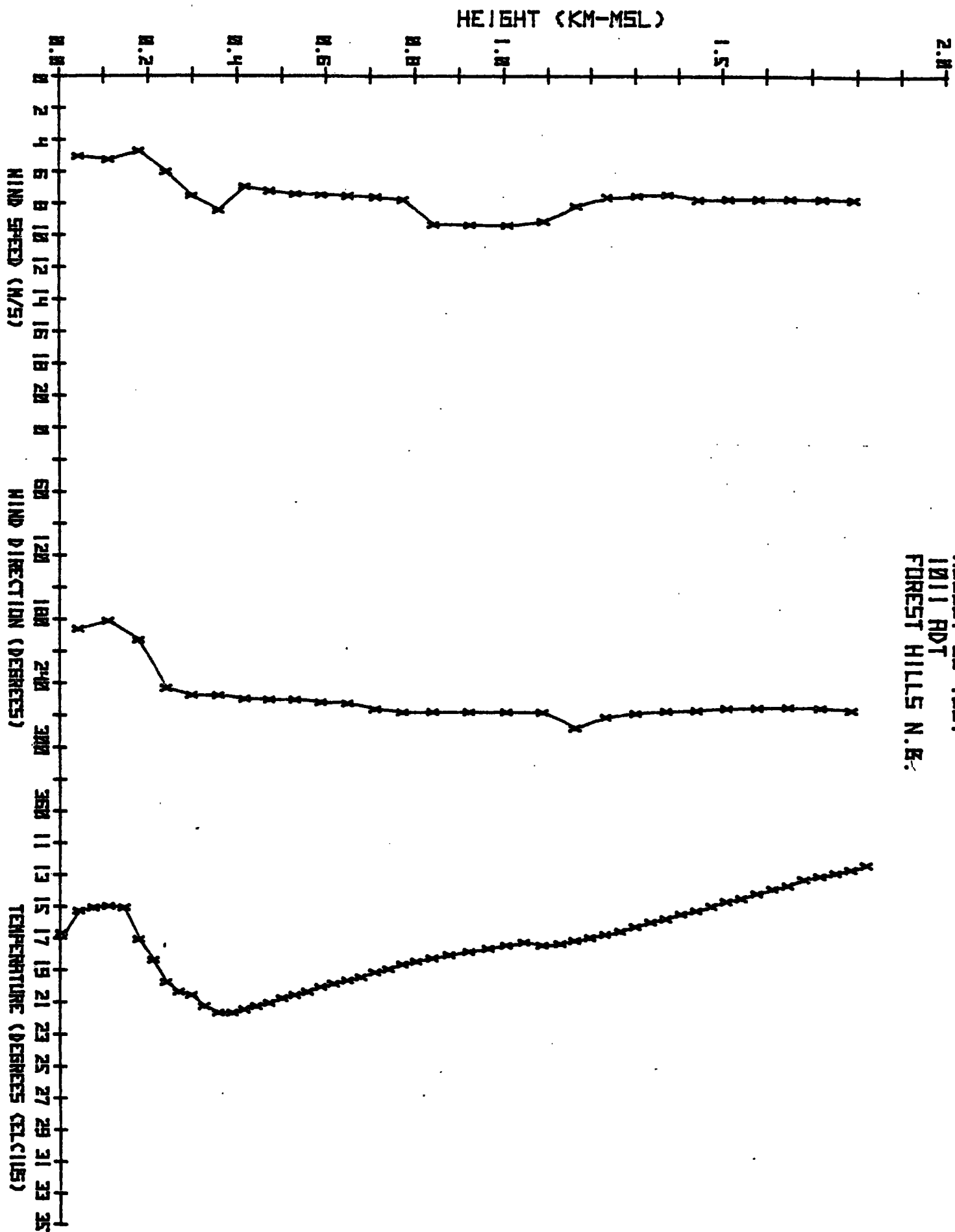
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 3

DATE AUGUST 02 1981 TIME 1011 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	10			16.8	SURFACE CONDITIONS	
1	42	5.1	189	15.3	75	15.1
2	110	5.3	182	15.0	145	15.1
3	178	4.7	200	17.1	211	18.4
4	240	6.0	245	19.8	268	20.4
5	297	7.5	252	20.6	326	21.3
6	358	8.4	252	21.7	390	21.7
7	417	6.9	255	21.5	444	21.3
8	473	7.2	256	21.1	502	20.8
9	531	7.4	256	20.6	560	20.4
10	589	7.5	259	20.1	619	19.9
11	650	7.6	260	19.7	680	19.5
12	711	7.7	265	19.2	742	19.0
13	774	7.8	268	18.7	805	18.5
14	842	9.4	267	18.3	879	18.1
15	923	9.4	267	17.9	967	17.7
16	1008	9.4	267	17.5	1049	17.3
17	1089	9.1	268	17.5	1130	17.4
18	1165	8.2	282	17.2	1200	17.0
19	1235	7.6	272	16.8	1270	16.6
20	1304	7.5	269	16.3	1339	16.0
21	1374	7.4	266	15.8	1409	15.5
22	1443	7.7	266	15.3	1478	15.0
23	1513	7.7	264	14.7	1548	14.5
24	1583	7.7	263	14.2	1617	13.9
25	1652	7.7	263	13.7	1687	13.3
26	1722	7.7	263	13.1	1757	12.9
27	1791	7.7	266	12.7	1826	12.4
28	1861	7.9	270	12.2	1896	12.0

AUGUST 02 1981
1011 PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 16

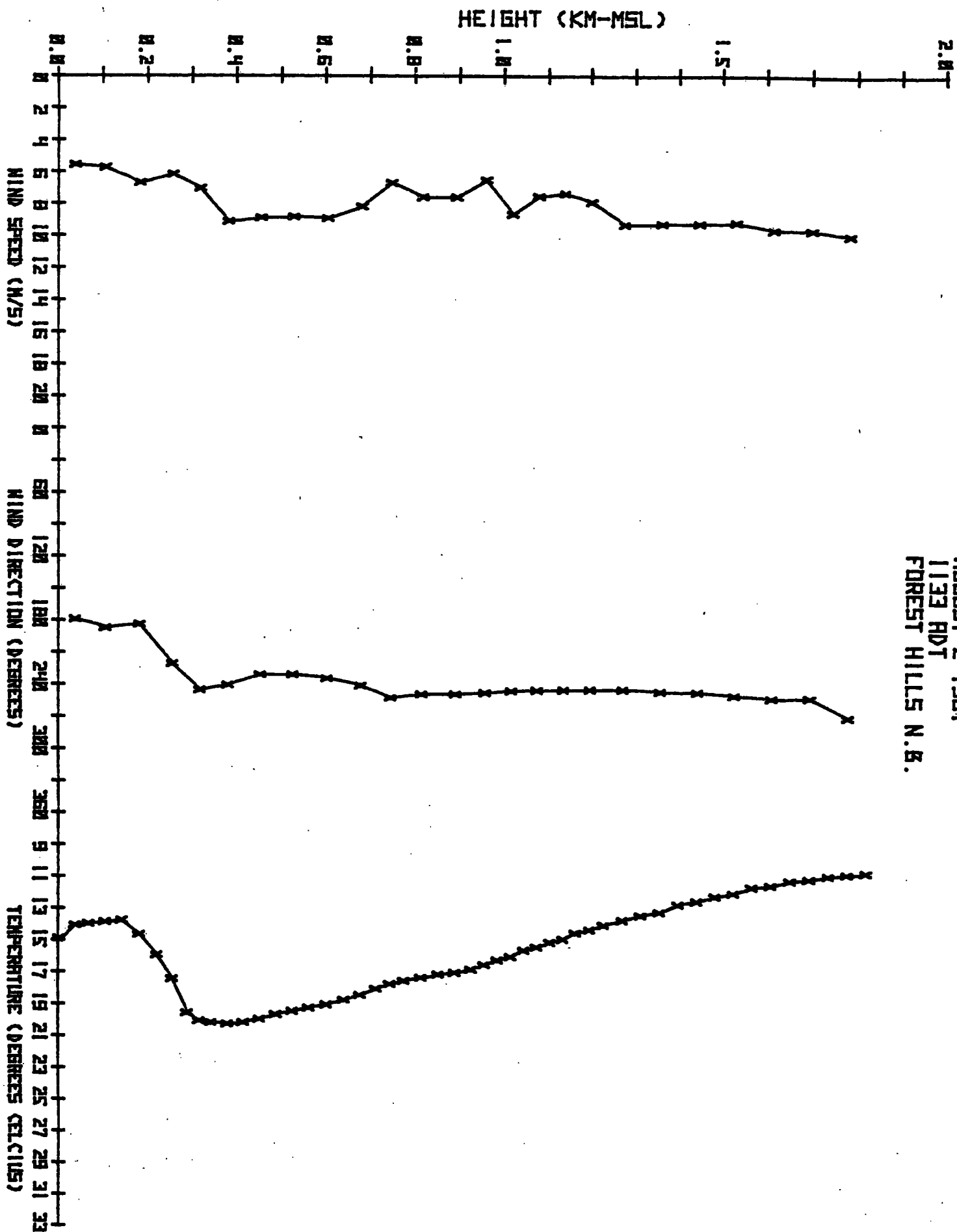
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 4

DATE AUGUST 2 1981 TIME 1133 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	8			15.0	SURFACE CONDITIONS	
1	38	5.6	179	14.1	68	14.0
2	105	5.7	187	13.9	143	13.8
3	183	6.7	184	14.7	223	16.0
4	257	6.2	221	17.5	291	19.6
5	318	7.0	246	20.1	345	20.2
6	382	9.1	241	20.3	418	20.2
7	455	8.9	231	20.0	491	19.7
8	528	8.8	231	19.5	566	19.3
9	605	8.9	235	19.1	644	18.8
10	680	8.2	242	18.5	717	18.1
11	748	6.7	253	17.8	779	17.6
12	818	7.6	249	17.4	857	17.2
13	893	7.6	249	17.1	930	16.9
14	960	6.5	248	16.6	990	16.3
15	1019	8.6	247	16.1	1049	15.7
16	1079	7.5	246	15.5	1108	15.2
17	1138	7.4	246	15.0	1167	14.6
18	1200	7.9	245	14.4	1232	14.1
19	1275	9.3	245	13.8	1317	13.5
20	1360	9.2	247	13.3	1402	12.8
21	1445	9.2	248	12.6	1488	12.3
22	1530	9.2	251	12.1	1573	11.7
23	1615	9.6	254	11.6	1657	11.3
24	1699	9.6	253	11.2	1741	11.0
25	1783	10.0	271	10.9	1826	10.8
26	1868	10.0	272	10.9	1910	10.9
27	1952	10.2	275	10.8	1994	10.6
28	2037	10.2	275	10.5	2079	10.4

AUGUST 2 1981
1133 PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 17

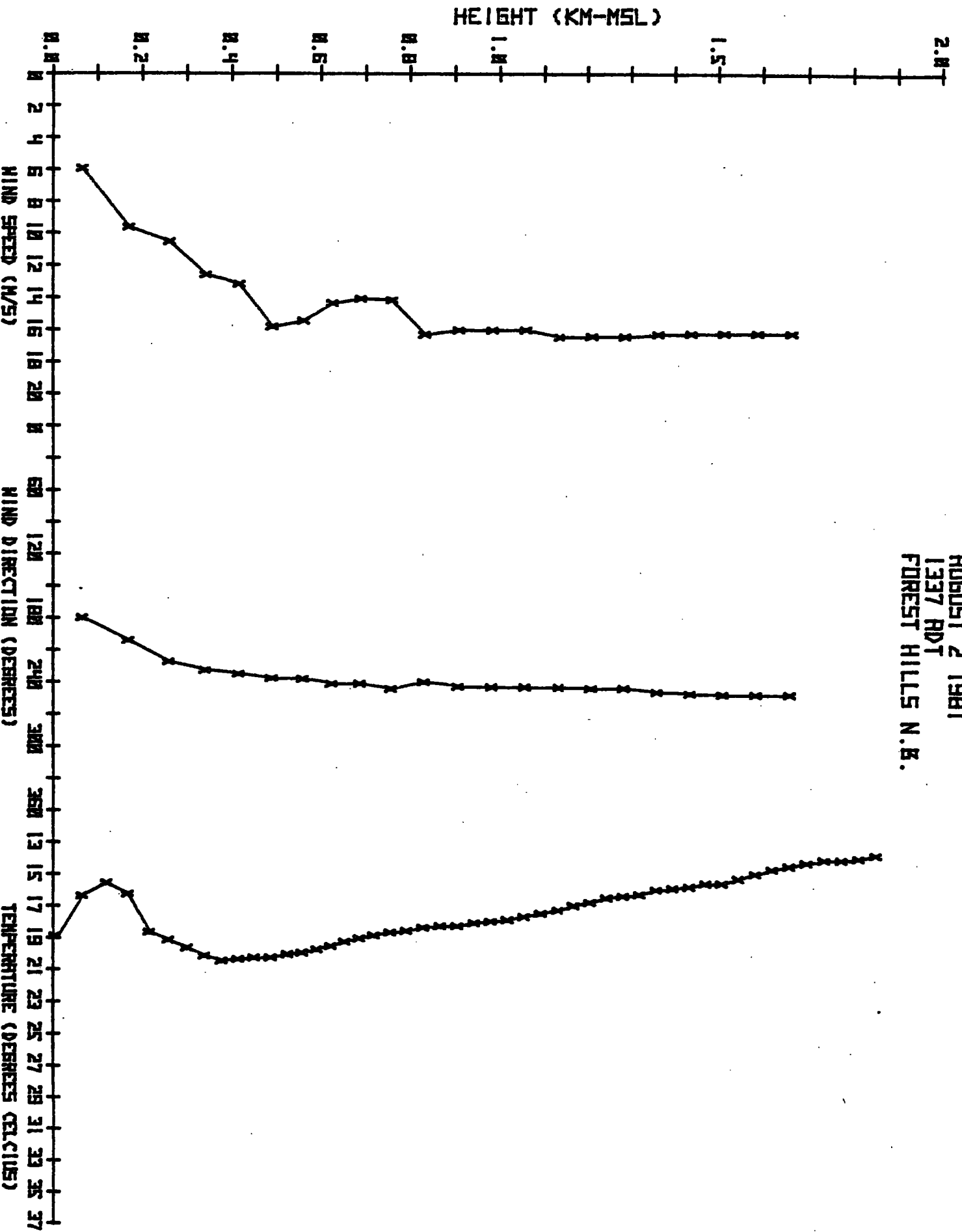
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 5

DATE AUGUST 2 1981 TIME 1337 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	11			19.0	SURFACE CONDITIONS	
1	66	6.0	180	16.4	121	15.6
2	169	9.6	202	16.3	218	18.7
3	260	10.5	222	19.2	303	19.7
4	342	12.6	229	20.2	381	20.5
5	417	13.2	233	20.4	454	20.3
6	491	15.8	237	20.3	528	20.1
7	562	15.5	238	20.0	595	19.8
8	626	14.3	242	19.6	657	19.3
9	690	14.1	242	19.1	722	18.9
10	759	14.1	247	18.7	796	18.6
11	833	16.3	241	18.4	871	18.3
12	909	16.0	244	18.3	947	18.1
13	985	16.0	245	18.0	1022	17.9
14	1060	16.0	245	17.7	1098	17.5
15	1136	16.4	245	17.3	1173	17.0
16	1211	16.4	246	16.8	1249	16.5
17	1287	16.4	246	16.4	1325	16.3
18	1362	16.3	249	16.0	1400	15.9
19	1438	16.2	251	15.8	1476	15.6
20	1514	16.2	252	15.6	1551	15.3
21	1589	16.2	252	15.0	1627	14.7
22	1665	16.2	252	14.5	1702	14.3
23	1741			14.1	1779	14.1
24	1818			14.0	1856	13.8
25	1895			13.6	1933	13.3
26	1972			13.2	2010	12.9
27	2049			12.8	2087	12.7
28	2125			12.7	2164	12.4

AUGUST 2 1981
1337 PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 18

STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 6

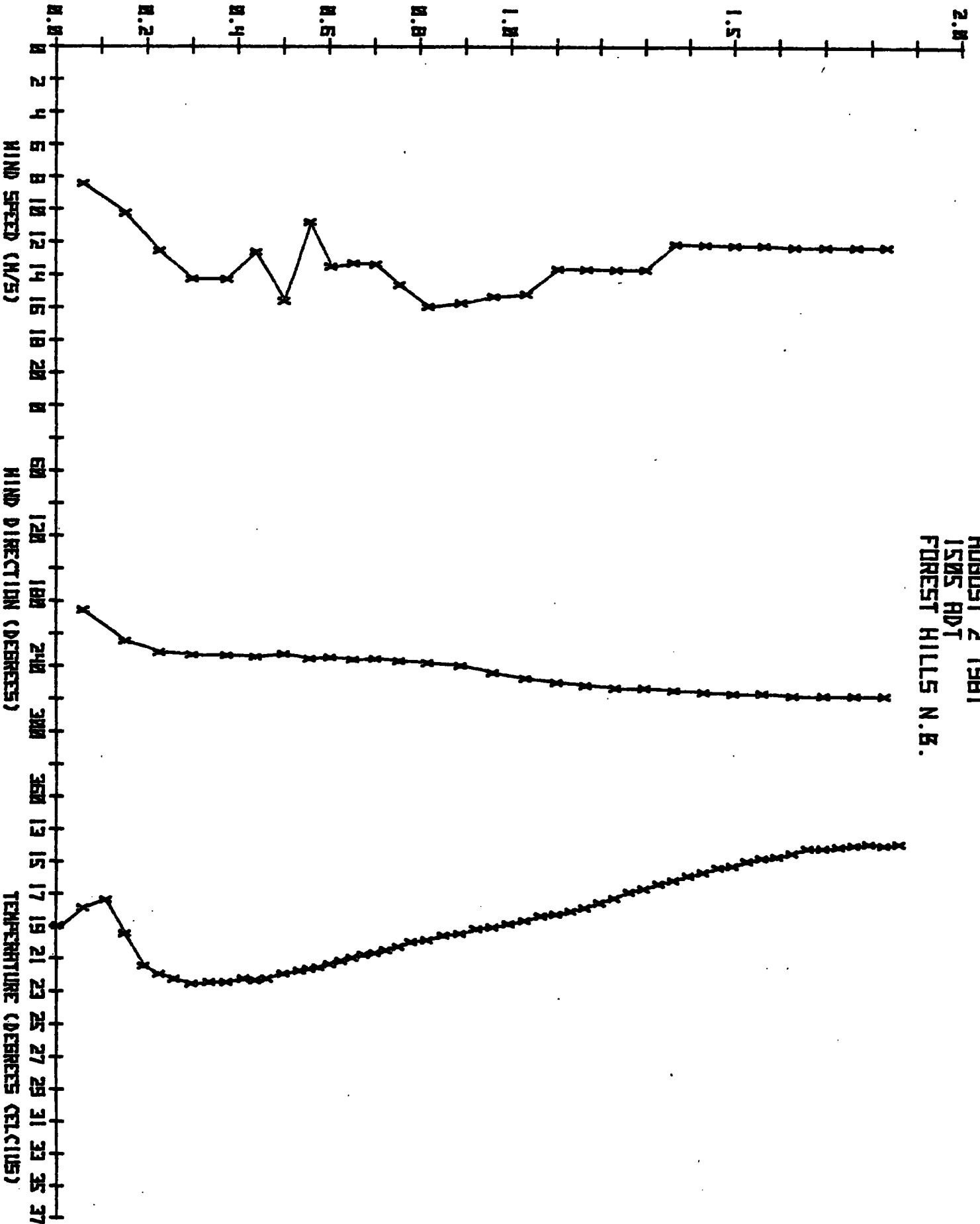
DATE AUGUST 2 1981 TIME 1505 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	9			19.1	SURFACE CONDITIONS	
1	59	8.4	189	17.9	109	17.4
2	151	10.2	217	19.5	193	21.5
3	226	12.5	228	22.0	260	22.3
4	299	14.3	230	22.6	338	22.5
5	376	14.3	231	22.5	413	22.3
6	439	12.6	232	22.4	465	22.3
7	501	15.6	230	22.0	538	21.8
8	558	10.8	234	21.7	579	21.6
9	603	13.5	233	21.4	628	21.2
10	653	13.3	235	21.0	678	20.8
11	702	13.4	234	20.7	727	20.5
12	755	14.6	236	20.3	783	20.0
13	818	16.0	238	19.9	854	19.6
14	890	15.7	240	19.5	926	19.2
15	962	15.3	247	19.1	997	18.9
16	1033	15.2	252	18.7	1069	18.4
17	1102	13.6	255	18.3	1135	18.1
18	1169	13.7	258	17.9	1202	17.6
19	1235	13.7	260	17.3	1269	16.9
20	1302	13.7	260	16.7	1335	16.4
21	1368	12.1	263	16.2	1402	15.9
22	1435	12.2	264	15.7	1468	15.4
23	1501	12.2	265	15.3	1535	15.0
24	1568	12.2	265	14.8	1601	14.7
25	1634	12.3	267	14.5	1668	14.2
26	1701	12.3	267	14.2	1734	14.1
27	1767	12.3	267	14.0	1801	13.9
28	1834	12.3	267	14.0	1867	13.9

AUGUST 2 1981
1505 ADT
FOREST HILLS N.B.

HEIGHT (KM-MSL)



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 19

STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 7

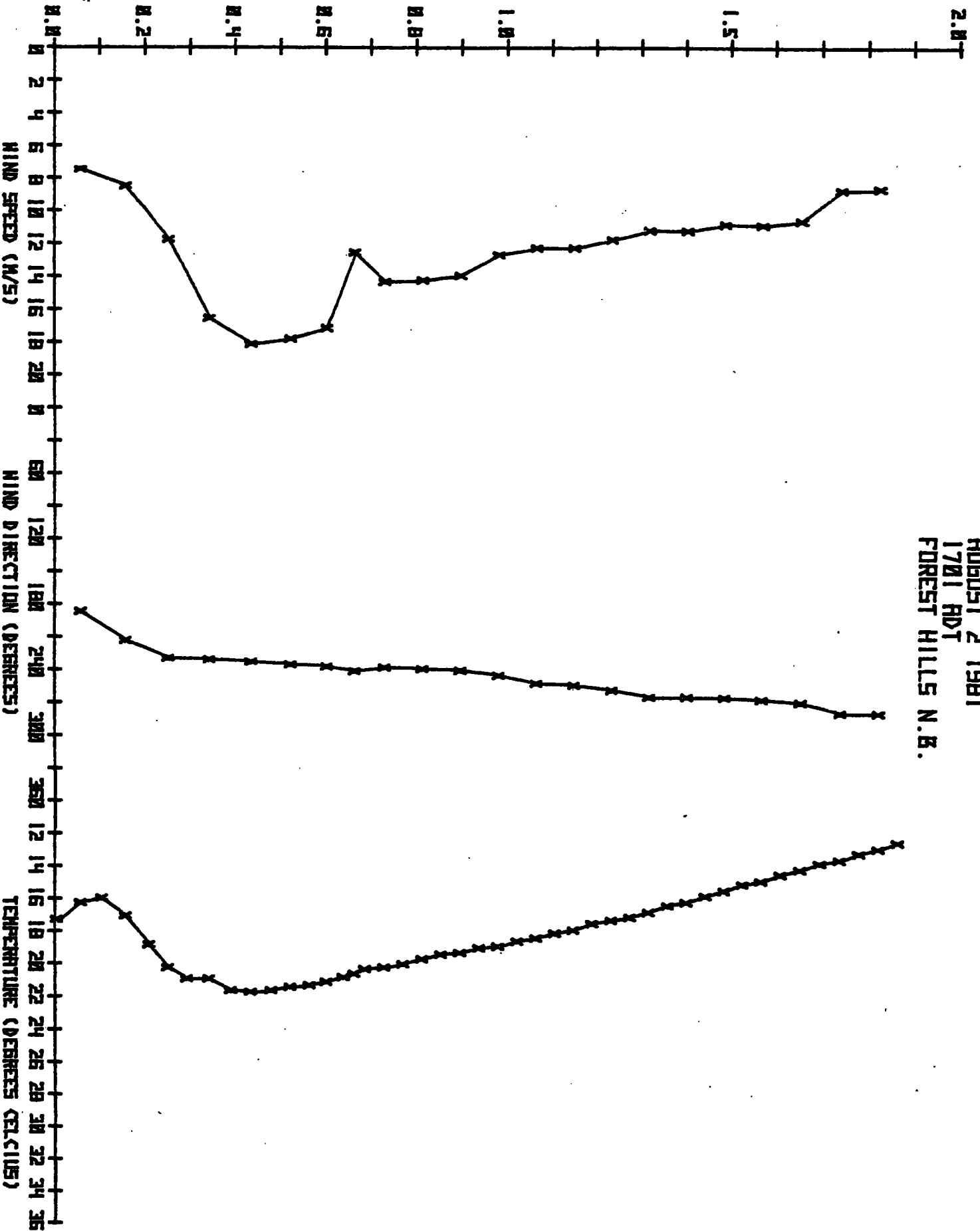
DATE AUGUST 2 1981 TIME 1701 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	11			17.4	SURFACE CONDITIONS	
1	57	7.5	187	16.3	104	16.0
2	157	8.5	214	17.1	210	18.9
3	252	11.7	230	20.3	294	21.0
4	343	16.5	231	21.0	391	21.7
5	436	18.1	234	21.8	481	21.7
6	523	17.8	236	21.5	566	21.4
7	603	17.2	238	21.2	640	20.9
8	664	12.5	242	20.7	688	20.4
9	730	14.3	239	20.3	772	20.1
10	814	14.2	240	19.8	856	19.5
11	898	13.9	242	19.4	940	19.1
12	982	12.7	246	19.0	1024	18.7
13	1066	12.3	253	18.5	1108	18.2
14	1150	12.3	255	18.0	1192	17.6
15	1234	11.8	259	17.4	1276	17.2
16	1319	11.2	266	16.9	1361	16.5
17	1403	11.2	266	16.3	1445	15.9
18	1487	10.8	266	15.6	1529	15.2
19	1572	10.9	268	15.0	1614	14.6
20	1656	10.6	271	14.3	1698	13.9
21	1740	8.7	280	13.7	1782	13.3
22	1825	8.6	280	13.0	1867	12.6
23	1909	8.6	281	12.4	1951	12.0
24	1993	8.6	281	11.7	2036	11.2
25	2078	8.5	279	10.9	2120	10.6
26	2162	8.5	280	10.4	2204	11.0
27	2246	7.8	258	10.9	2289	11.0
28	2331	7.8	255	10.9	2373	11.0

AUGUST 2 1981
1701 PDT
FOREST HILLS N.B.

HEIGHT (KM-MSL)



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 7 - 20

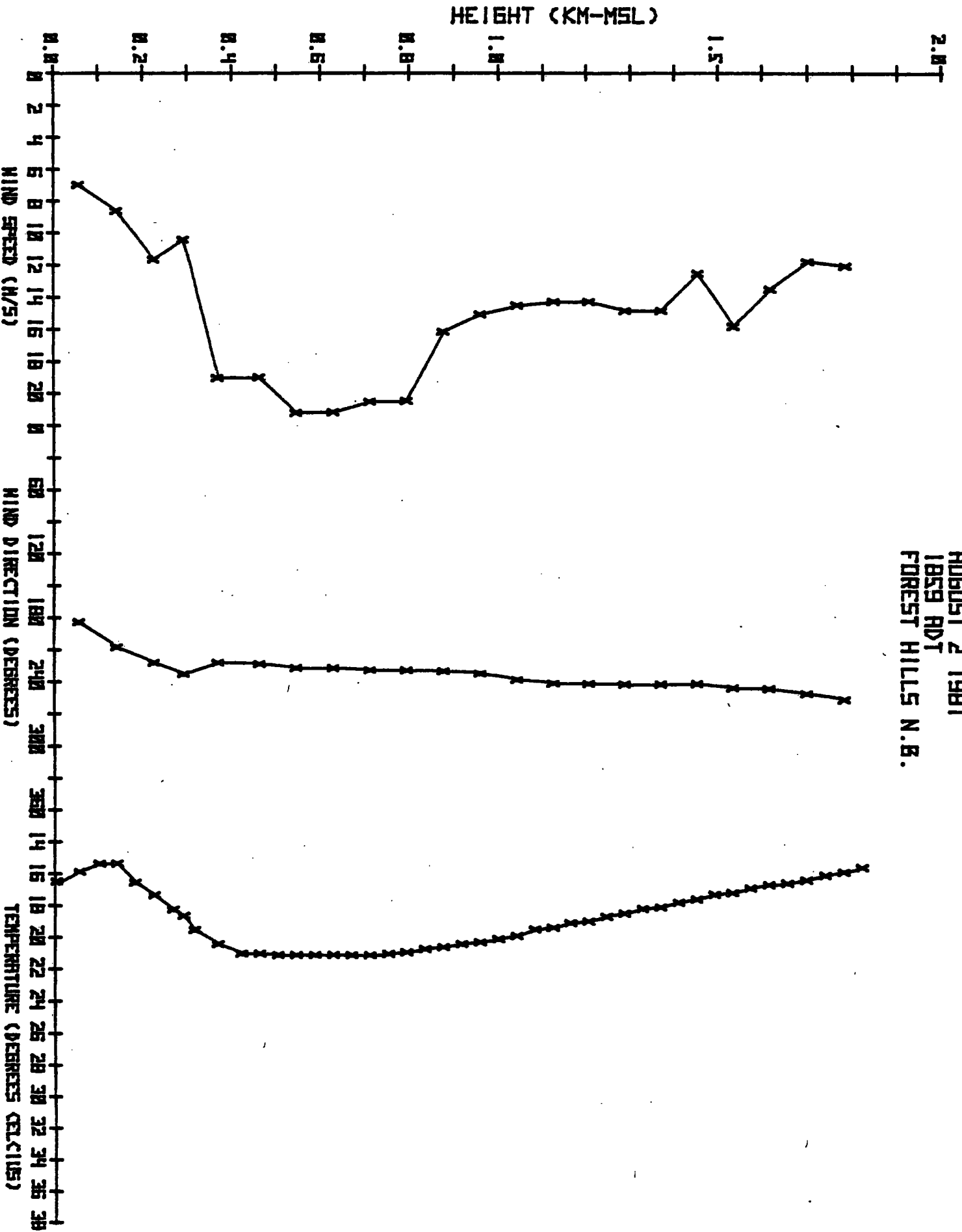
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 8

DATE AUGUST 2 1981 TIME 1859 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	10			16.6	SURFACE CONDITIONS	
1	55	7.0	185	15.9	100	15.4
2	141	8.6	208	15.4	181	16.6
3	224	11.7	223	17.4	267	18.3
4	292	10.4	233	18.7	316	19.6
5	368	19.0	223	20.5	421	21.1
6	462	19.0	224	21.1	504	21.2
7	545	21.2	228	21.2	587	21.2
8	628	21.2	228	21.2	670	21.2
9	711	20.5	230	21.2	752	21.1
10	794	20.5	230	21.0	835	20.8
11	876	16.2	231	20.7	918	20.5
12	959	15.1	233	20.4	1000	20.2
13	1042	14.5	239	20.0	1083	19.6
14	1124	14.3	243	19.5	1165	19.2
15	1207	14.3	243	19.1	1248	18.8
16	1289	14.9	243	18.6	1330	18.3
17	1372	14.9	243	18.2	1413	17.9
18	1454	12.5	243	17.7	1495	17.4
19	1537	15.8	247	17.3	1578	17.0
20	1619	13.5	248	16.8	1661	16.7
21	1702	11.8	252	16.5	1743	16.2
22	1784	12.1	258	16.0	1826	15.7
23	1867	12.1	258	15.4	1908	15.2
24	1949	12.1	259	14.9	1991	14.6
25	2032	9.8	261	14.4	2073	14.1
26	2114	9.9	266	13.9	2156	13.7
27	2197	9.9	266	13.5	2238	13.2
28	2279	9.9	266	13.0	2321	12.6

AUGUST 2 1981
1859 ADT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 8 - 1

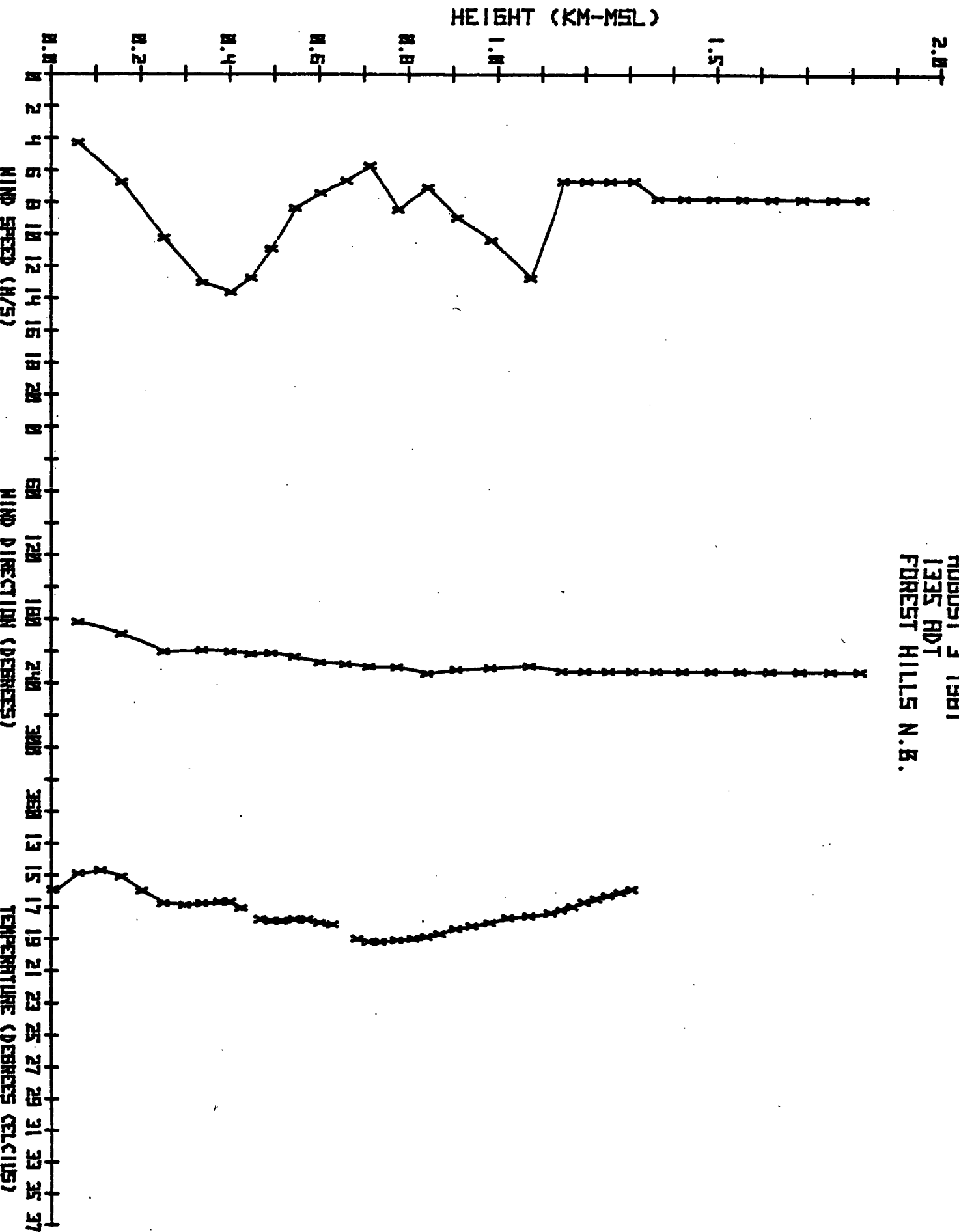
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 1

DATE AUGUST 3 1981 TIME 1335 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	10			16.0	SURFACE CONDITIONS	
1	60	4.3	183	14.9	111	14.7
2	157	6.8	194	15.1	204	16.0
3	252	10.2	211	16.8	300	16.9
4	339	13.0	209	16.8	377	16.7
5	402	13.6	211	16.7	427	17.1
6	449	12.7	213	M	470	17.8
7	494	10.9	212	17.9	518	17.9
8	547	8.4	216	17.8	576	17.8
9	604	7.4	221	18.0	633	18.1
10	661	6.7	223	M	689	19.0
11	714	5.7	225	19.2	740	19.2
12	777	8.5	226	19.1	815	19.0
13	844	7.1	231	18.9	874	18.7
14	910	9.0	228	18.4	946	18.2
15	986	10.4	226	18.0	1027	17.7
16	1075	12.7	224	17.6	1123	17.4
17	1149	6.7	229	17.2	1175	17.0
18	1202	6.7	229	16.7	1229	16.5
19	1256	6.7	229	16.3	1284	16.1
20	1311	6.7	229	15.9	1338	M
21	1365	7.8	229	M		
22	1425	7.8	229	M		
23	1492	7.8	229	M		
24	1558	7.8	229	M		
25	1624	7.8	229	M		
26	1691	7.8	229	M		
27	1757	7.8	229	M		
28	1823	7.8	229	M		

AUGUST 3 1981
1335 ADT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 8 - 2

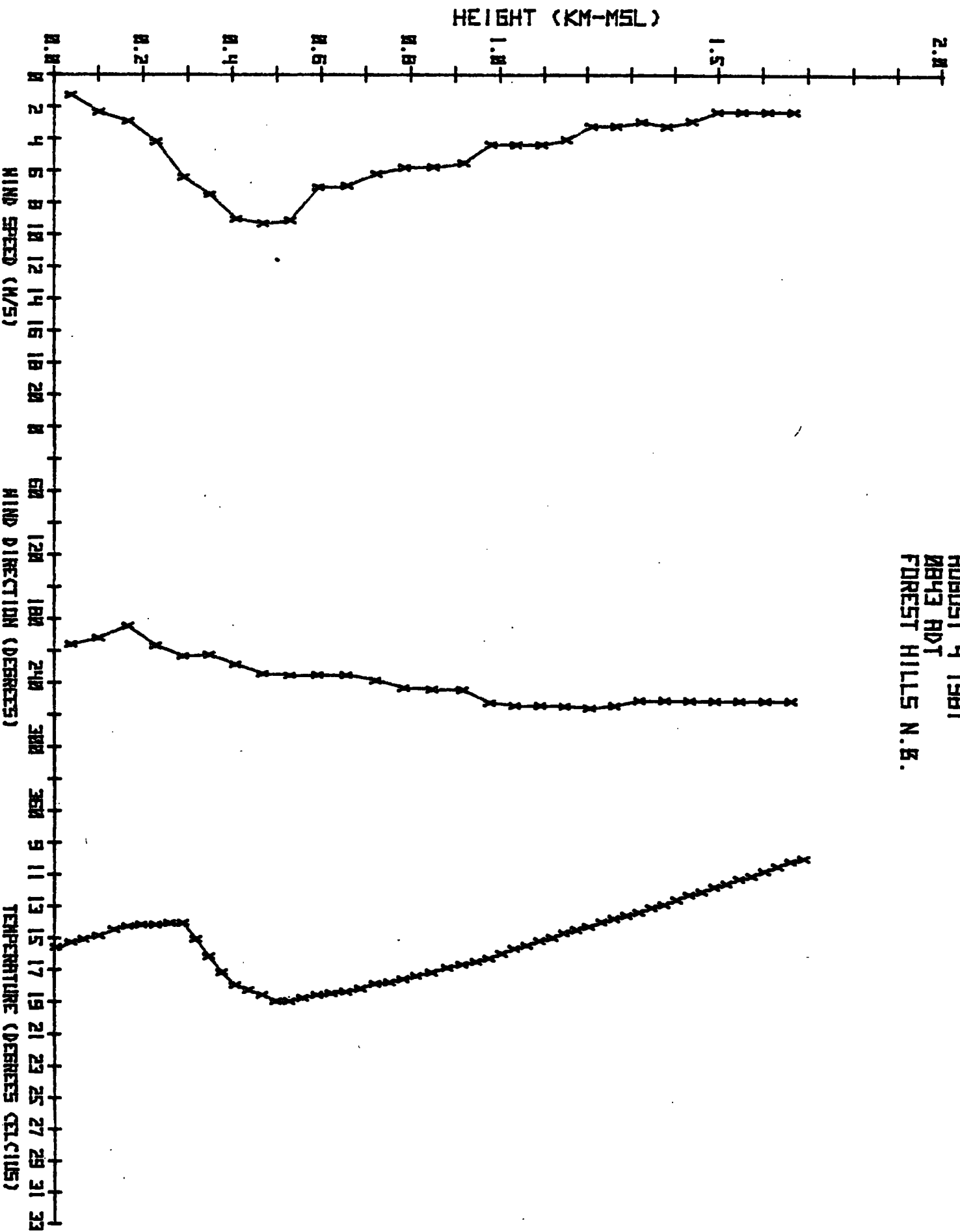
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 1

DATE AUGUST 4 1981 TIME 0843 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	11			15.7	SURFACE CONDITIONS	
1	39	1.3	204	15.3	66	15.1
2	101	2.4	198	14.9	136	14.5
3	166	2.9	187	14.3	196	14.2
4	229	4.2	206	14.2	262	14.1
5	291	6.4	216	14.1	321	15.1
6	350	7.5	214	16.2	379	17.2
7	409	9.0	224	18.0	439	18.3
8	470	9.3	232	18.6	501	19.0
9	531	9.1	234	19.0	562	18.8
10	594	7.1	233	18.6	626	18.5
11	659	7.0	233	18.4	691	18.2
12	724	6.2	239	17.9	757	17.8
13	787	5.8	245	17.6	817	17.4
14	852	5.8	247	17.2	887	16.9
15	919	5.6	247	16.7	952	16.5
16	980	4.4	259	16.3	1009	16.0
17	1037	4.4	262	15.7	1066	15.5
18	1095	4.4	262	15.2	1123	15.0
19	1152	4.1	262	14.7	1180	14.5
20	1209	3.2	264	14.3	1238	14.0
21	1266	3.2	262	13.8	1295	13.6
22	1324	3.0	257	13.4	1353	13.1
23	1381	3.3	257	12.9	1410	12.6
24	1439	2.9	257	12.3	1468	12.1
25	1496	2.3	257	11.8	1525	11.6
26	1554	2.3	257	11.3	1583	11.1
27	1611	2.3	257	10.8	1640	10.5
28	1669	2.3	257	10.2	1697	10.0

AUGUST 4 1981
0843 PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 8 - 3

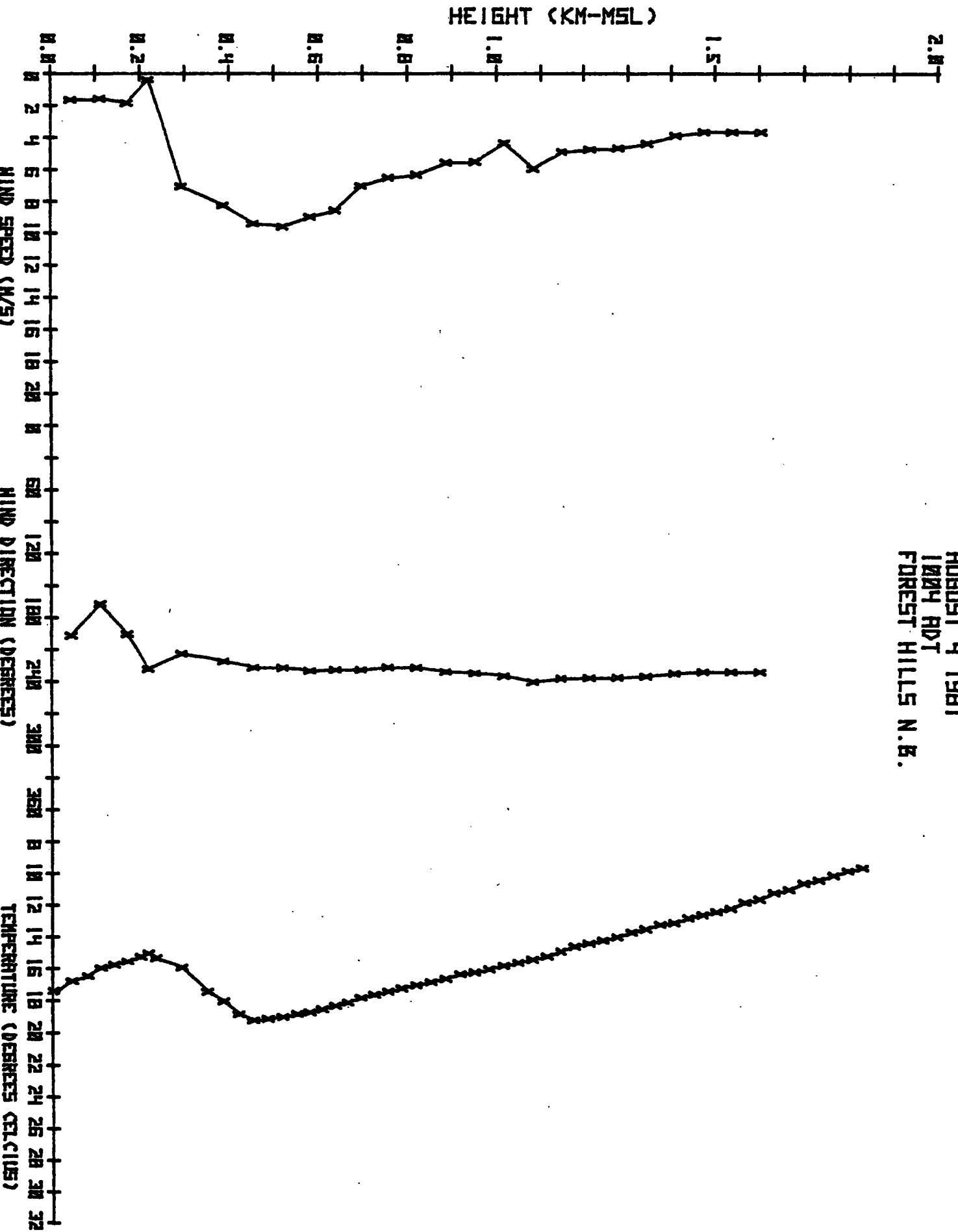
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 2

DATE AUGUST 4 1981 TIME 1004 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
					SURFACE CONDITIONS	
0	9			17.5		
1	45	1.7	197	16.8	80	16.5
2	110	1.6	168	16.0	139	15.8
3	169	1.9	196	15.6	199	15.3
4	217	0.4	229	15.1	235	15.4
5	293	7.1	214	16.0	351	17.5
6	387	8.3	222	18.1	422	18.9
7	455	9.4	228	19.3	488	19.2
8	521	9.6	228	19.1	554	18.9
9	582	9.0	231	18.8	610	18.6
10	639	8.6	230	18.4	667	18.2
11	696	7.1	230	17.9	726	17.7
12	757	6.6	228	17.5	788	17.3
13	820	6.4	228	17.1	853	16.9
14	886	5.6	232	16.7	919	16.4
15	952	5.6	233	16.3	984	16.1
16	1017	4.4	236	15.9	1050	15.7
17	1082	6.0	241	15.5	1115	15.3
18	1148	4.9	238	15.0	1180	14.7
19	1213	4.8	238	14.5	1245	14.3
20	1278	4.7	237	14.1	1311	13.8
21	1343	4.4	236	13.6	1376	13.3
22	1408	3.9	233	13.2	1441	12.9
23	1474	3.7	232	12.7	1506	12.5
24	1539	3.7	232	12.3	1571	11.9
25	1604	3.7	232	11.7	1637	11.3
26	1669			11.1	1702	10.7
27	1734			10.5	1767	10.2
28	1799			9.9	1832	9.7

AUGUST 4 1981
1004 ADT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 8 - 4

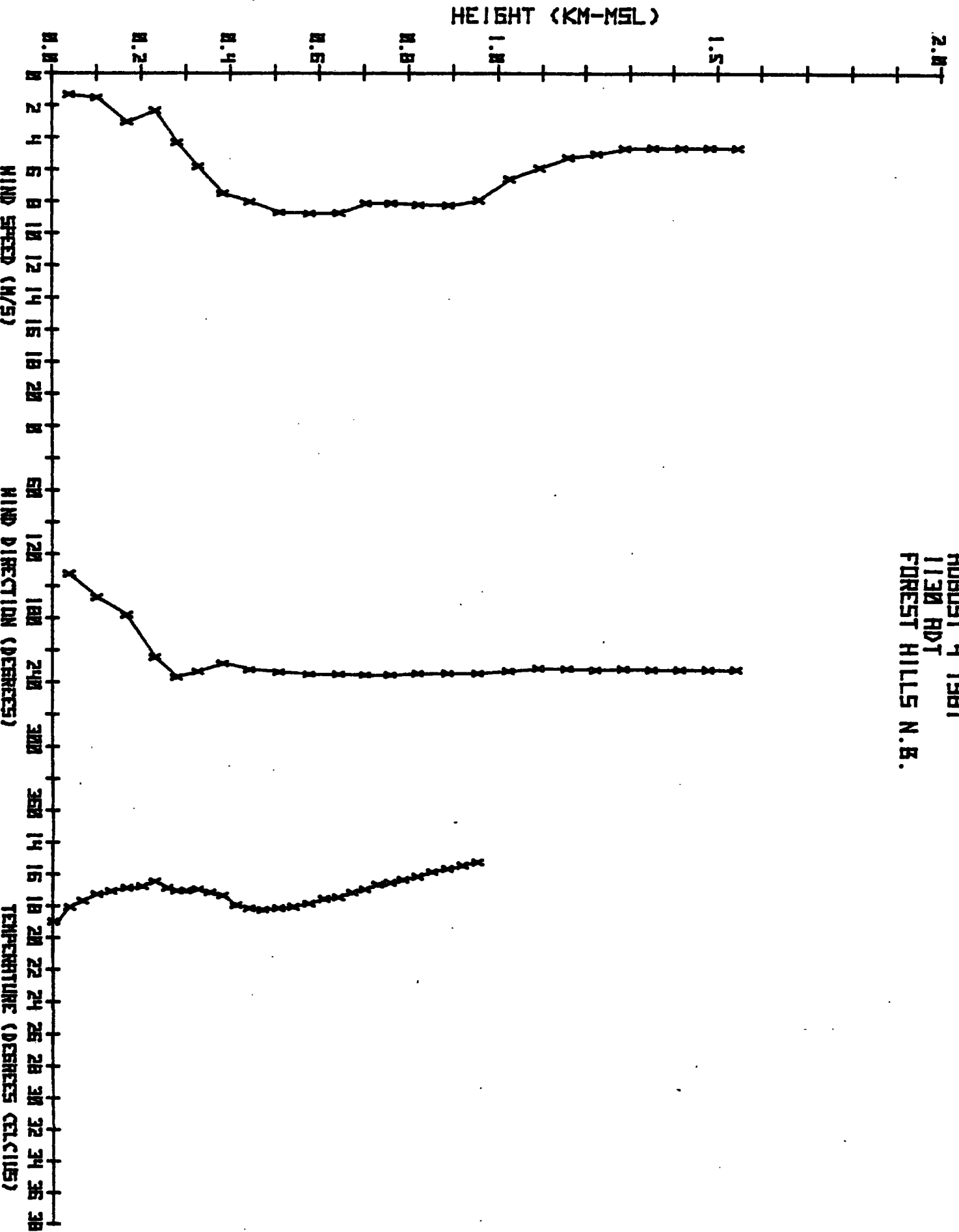
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 3

DATE AUGUST 4 1981 TIME 1130 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	9			19.1	SURFACE CONDITIONS	
1	38	1.4	139	18.1	67	17.7
2	99	1.5	161	17.3	131	17.1
3	166	3.1	177	16.9	202	16.8
4	230	2.4	217	16.5	258	16.9
5	279	4.3	236	17.1	300	17.1
6	327	5.8	231	17.0	354	17.2
7	384	7.5	223	17.4	413	18.0
8	444	8.0	229	18.2	474	18.3
9	509	8.7	231	18.2	543	18.1
10	578	8.8	233	17.9	612	17.6
11	644	8.7	233	17.5	675	17.2
12	703	8.1	234	17.0	732	16.7
13	760	8.1	234	16.6	788	16.4
14	821	8.2	233	16.2	854	15.9
15	888	8.3	232	15.7	922	15.5
16	956	7.9	232	15.3	990	M
17	1024	6.6	230	M		
18	1092	5.9	228	M		
19	1159	5.3	228	M		
20	1224	5.0	229	M		
21	1288	4.7	228	M		
22	1353	4.7	229	M		
23	1417	4.7	229	M		
24	1482	4.7	229	M		
25	1547	4.7	229	M		

AUGUST 4 1981
1130 ADT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 8 - 5

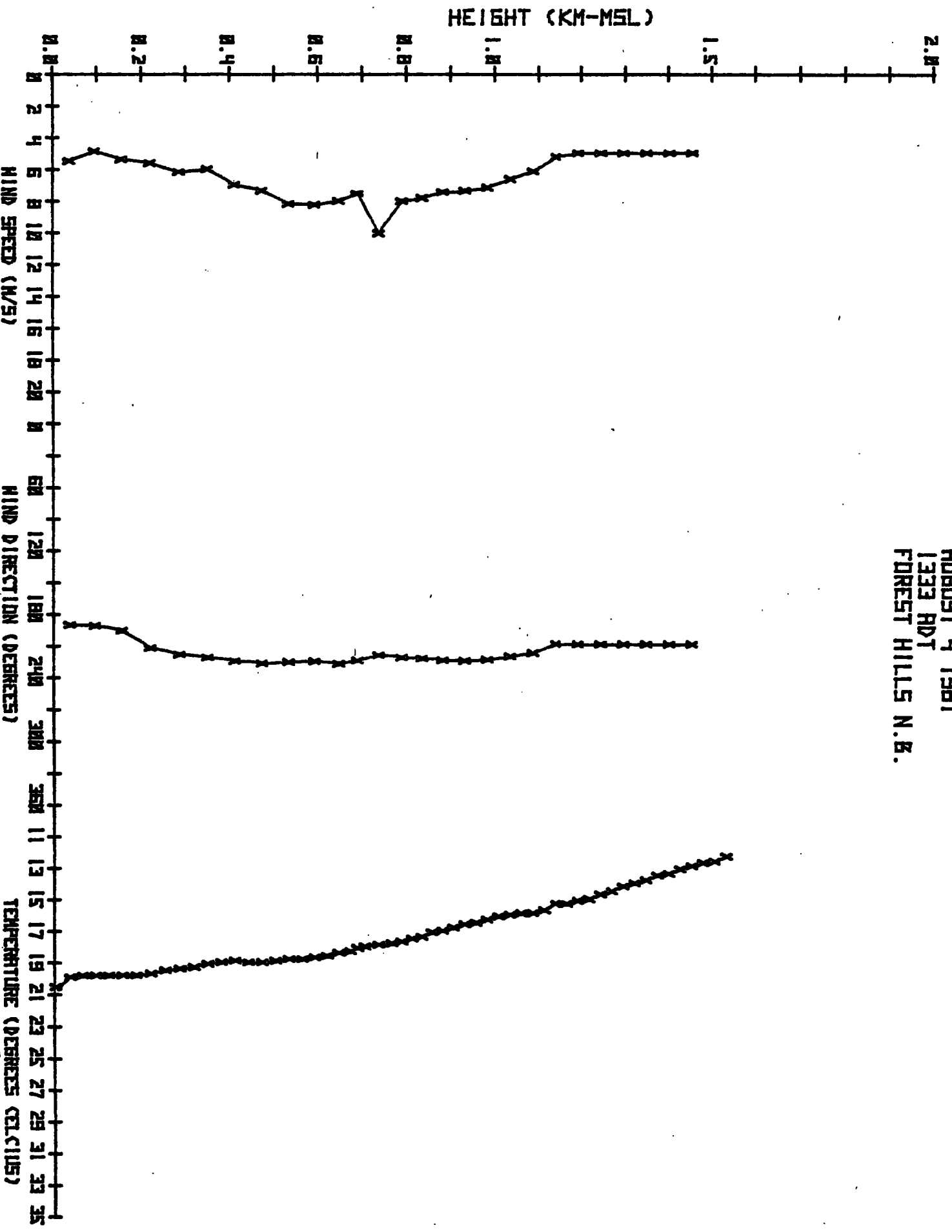
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 4

DATE AUGUST 4 1981 TIME 1333 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	9			20.6	SURFACE CONDITIONS	
1	37	5.5	190	19.9	65	19.8
2	94	4.9	191	19.8	124	19.8
3	154	5.4	195	19.8	185	19.8
4	219	5.6	212	19.7	252	19.5
5	285	6.1	218	19.4	318	19.3
6	349	5.9	221	19.1	380	19.0
7	411	6.9	225	18.9	442	19.0
8	472	7.3	227	19.0	503	18.9
9	534	8.2	225	18.8	564	18.8
10	592	8.2	225	18.7	621	18.6
11	647	8.0	227	18.4	673	18.3
12	689	7.5	224	18.1	706	18.0
13	736	10.0	219	17.9	767	17.8
14	790	8.0	221	17.7	812	17.5
15	835	7.8	222	17.4	858	17.1
16	881	7.4	224	17.0	905	16.8
17	931	7.3	224	16.6	957	16.5
18	983	7.1	223	16.3	1009	16.1
19	1035	6.6	220	16.0	1060	15.9
20	1086	6.1	217	15.9	1112	15.7
21	1138	5.2	208	15.3	1165	15.3
22	1191	5.0	209	15.1	1217	15.0
23	1244	5.0	209	14.7	1270	14.5
24	1296	5.0	209	14.2	1323	14.0
25	1349	5.0	209	13.8	1375	13.5
26	1401	5.0	209	13.4	1428	13.1
27	1454	5.0	209	12.9	1480	12.7
28	1508			12.6	1535	12.3

AUGUST 4 1981
1333 PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 8 - 6

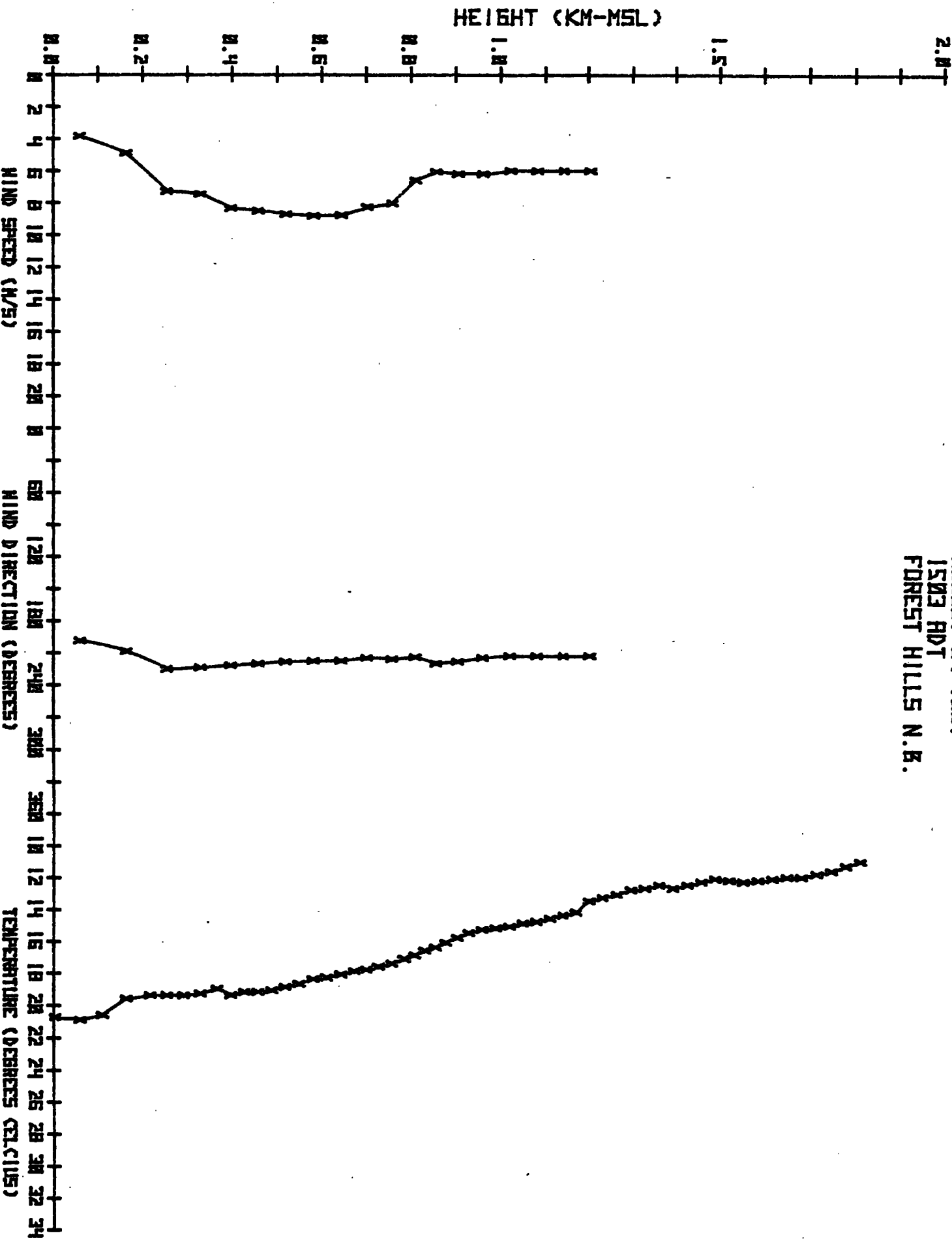
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 5

DATE AUGUST 04 1981 TIME 1503 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT (M)	SPEED (M/S)	DIRECTION	TEMP	HEIGHT (M)	TEMP
0	10			20.8	SURFACE CONDITIONS	
1	59	3.8	199	20.9	109	20.6
2	162	4.9	209	19.6	216	19.4
3	254	7.3	225	19.4	292	19.4
4	329	7.4	224	19.3	366	19.0
5	397	8.3	222	19.4	428	19.2
6	459	8.5	221	19.2	490	19.1
7	521	8.7	219	18.9	551	18.7
8	582	8.8	218	18.4	613	18.3
9	644	8.7	218	18.1	675	17.9
10	702	8.3	215	17.8	729	17.6
11	758	8.0	216	17.4	787	17.1
12	810	6.6	214	16.9	833	16.6
13	856	6.0	220	16.4	879	16.1
14	905	6.2	218	15.8	931	15.5
15	961	6.2	215	15.3	992	15.2
16	1022	6.0	213	15.1	1052	14.9
17	1083	6.0	213	14.8	1113	14.6
18	1144	6.0	213	14.4	1174	14.2
19	1205	6.0	213	13.5	1235	13.3
20	1267			13.1	1299	12.8
21	1332			12.7	1364	12.5
22	1396			12.7	1428	12.5
23	1461			12.3	1493	12.1
24	1525			12.2	1557	12.3
25	1590			12.2	1622	12.1
26	1654			12.0	1686	12.0
27	1719			11.8	1751	11.6
28	1783			11.3	1815	11.0

AUGUST 04 1981
1503 PDT
FOREST HILLS N.B.



MINISONDE ANALYSIS USING SINGLE OR DOUBLE THEODOLITE

DATA FILE NUMBER 8 - 7

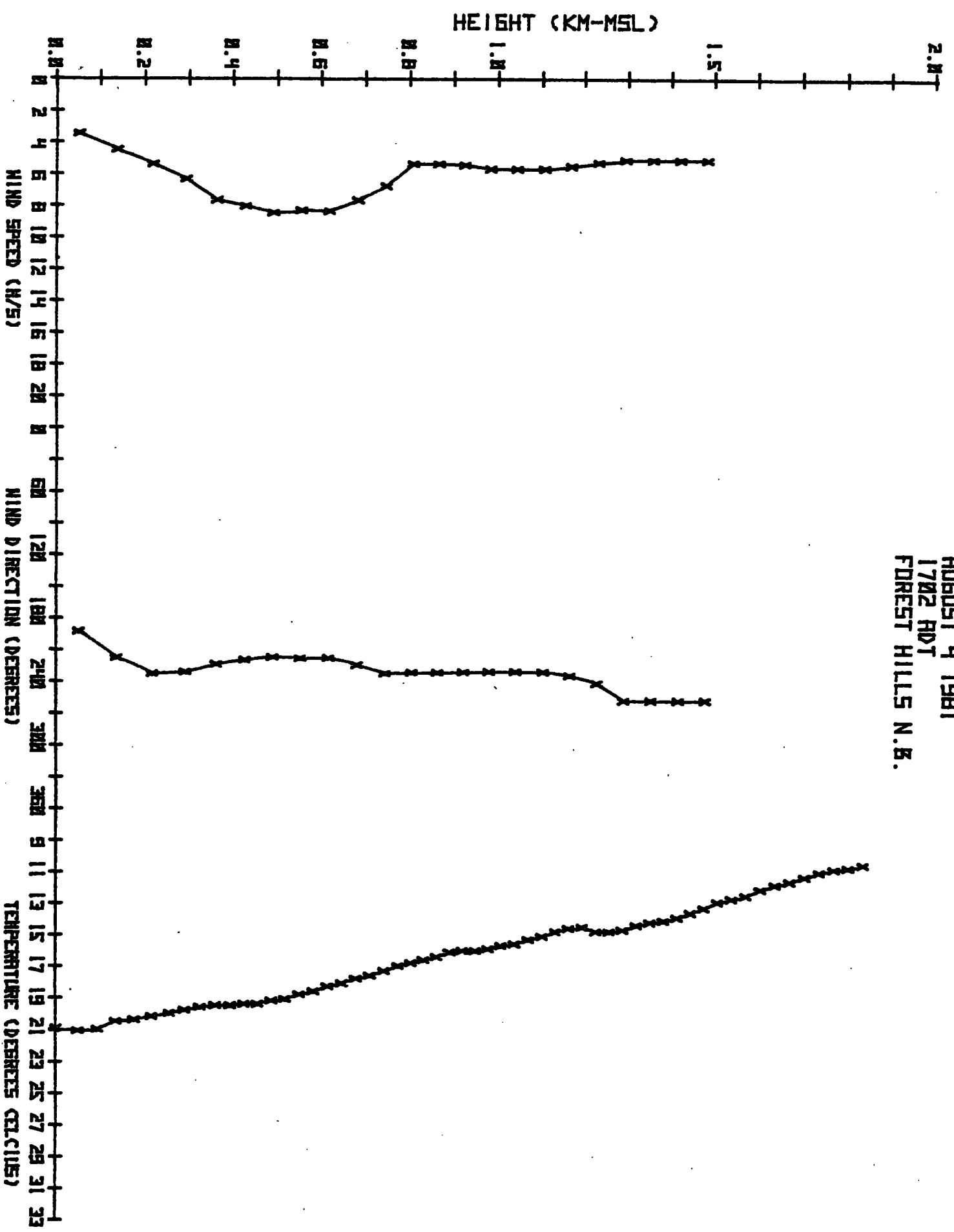
STATION FOREST HILLS N.B. STATION HEIGHT 5 FLIGHT 6

DATE AUGUST 4 1981 TIME 1702 ADT

BLINE 259.2 GPA 0.6 BRG 76

LEVEL	HEIGHT(M)	SPEED(M/S)	DIRECTION	TEMP	HEIGHT(M)	TEMP
0	7			21.0	SURFACE CONDITIONS	
1	52	3.5	193	21.1	96	21.0
2	137	4.5	218	20.5	178	20.4
3	219	5.4	233	20.2	259	20.0
4	294	6.3	231	19.8	329	19.6
5	364	7.7	224	19.5	399	19.5
6	430	8.0	220	19.4	461	19.4
7	492	8.5	217	19.2	523	19.1
8	555	8.3	218	18.8	587	18.6
9	619	8.4	218	18.3	651	18.1
10	683	7.7	225	17.8	715	17.6
11	747	6.8	233	17.3	778	17.0
12	807	5.4	232	16.8	837	16.6
13	866	5.4	232	16.4	895	16.1
14	924	5.5	231	16.0	953	16.0
15	983	5.7	231	15.9	1012	15.7
16	1043	5.7	231	15.6	1075	15.3
17	1106	5.7	231	15.1	1137	14.8
18	1169	5.5	234	14.6	1200	14.5
19	1232	5.3	241	14.8	1263	14.8
20	1295	5.1	258	14.7	1326	14.4
21	1357	5.1	258	14.2	1389	14.1
22	1420	5.1	258	13.9	1452	13.6
23	1483	5.1	258	13.3	1514	12.9
24	1547			12.7	1580	12.5
25	1613			12.1	1645	11.8
26	1678			11.6	1711	11.3
27	1744			11.0	1777	10.8
28	1809			10.7	1842	10.5

AUGUST 4 1981
 1702 PDT
 FOREST HILLS N.B.





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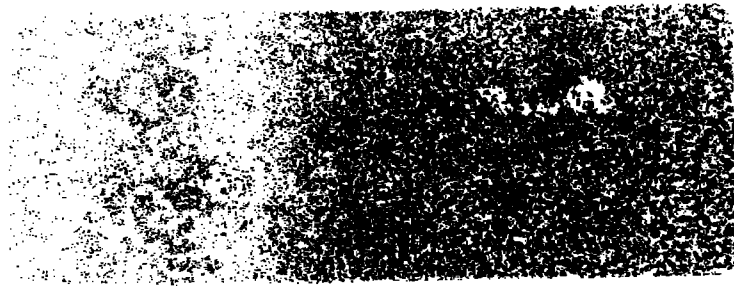


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