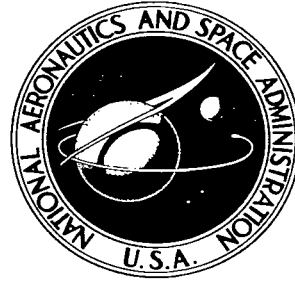


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TEMPERATURE, PRESSURE, DENSITY,  
AND WIND MEASUREMENTS  
IN THE UPPER STRATOSPHERE  
AND MESOSPHERE, 1964

*by W. Smith, J. Theon, L. Katchen, and P. Swartz*  
*Goddard Space Flight Center*  
*Greenbelt, Md.*

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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## ABSTRACT

Complete data from 30 rocket-borne experiments at Wallops Island, Virginia, Churchill, Manitoba, Canada, and Ascension Island in the South Atlantic Ocean are presented. Temperatures, pressures, densities, and wind velocities have been derived from recorded times of explosions and sound arrivals in the grenade experiment and from impact and static pressure measurements in the pitot-static tube experiment, but no attempt has been made to analyze the meteorological significance of these measurements. Error analyses are included for the results of each of the 27 grenade experiments. Tabulated grenade experiment results from Churchill in 1956 to 1958 and Guam in 1958 are presented as an appendix.

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# TEMPERATURE, PRESSURE, DENSITY AND WIND MEASUREMENTS IN THE UPPER STRATOSPHERE AND MESOSPHERE, 1964

by

W. Smith, J. Theon, L. Katchen, and P. Swartz  
*Goddard Space Flight Center*

## INTRODUCTION

In 1964 a total of 30 rocket grenade and pitot-static tube experiments were performed at Wallops Island, Virginia, Churchill, Canada, and Ascension Island, in the South Atlantic Ocean, by Goddard Space Flight Center. This report presents the data obtained in these experiments; however, these data have not been analyzed for their meteorological significance. Rather, this report should be considered as a record of the unsmoothed, raw measurements which may serve as the basis of further investigation and interpretation of the structure of the atmosphere.

Also included as an appendix to this report are the grenade experiment data taken at Churchill from 1956 to 1958 (Reference 1) and at Guam in 1958 (Reference 2). A complete tabulation of these data has not been previously published.

The grenade experiment and pitot-static tube experiment are two of the several techniques employed in the NASA Meteorological Sounding Rocket Program, the objective of which is to obtain as representative as possible a synoptic sample of the structure of the mesosphere and lower ionosphere. In order to extend the findings over the widest possible geographic area, to permit more accurate analyses, and perhaps eventually to achieve a global network of data stations, the NASA soundings are coordinated with soundings in other parts of the world whenever possible. The details of the instrumentation and data processing used in this program have been thoroughly described elsewhere (References 3 and 4).

## EXPERIMENTAL METHODS

In the grenade experiment, 1-, 2-, and 3-pound explosive charges (grenades) are carried aloft in the nose cone of a Nike-Cajun sounding rocket. The grenades are ejected and exploded at 4- to 6-kilometer intervals. The rocket position and hence the exact position of the explosion are determined by a precision radar such as the FPS-16, a Doppler tracking system, or both. The time of the explosion is detected by small rocket-borne infrared photocells and telemetered to the

ground. A ground-based array of hot-wire microphones with frequency response peaked at 4 cycles per second is used to detect and record the sound waves from each exploding grenade. The measured experimental parameters are the times of the grenade explosions, the positions of the grenade explosions, and the times of arrival of the sound waves at the ground-based microphones.

Elevation and azimuth angles are computed for each arriving sound wave front by applying a least-squares fit to the arrival times at the various microphones. Each wave is then analytically traced up through the atmosphere by means of Snell's law. Data from radiosonde ascents or from small meteorological rockets obtained at the time of the grenade soundings are used for this tracing up to the first explosion; above this, the results of the experiment itself are used for each successive explosion. This apparent position of the wave is then compared with the known position of the wave source, the grenade explosion. The amount by which the sound wave has been displaced horizontally from one explosion to the next is a measure of the average wind velocity vector in the layer between any two adjacent explosions. The average speed of sound and hence the average temperature between two adjacent explosions may also be determined. The temperature profile consists of discrete points; each point represents an average value for an altitude layer between consecutive grenade explosions. The temperature profile is used to derive pressure and density profiles from the pressure at the highest radiosonde altitude. This reference pressure is available from the accompanying radiosonde and small meteorological rocketsonde (Reference 5). Pressure is calculated by use of the hydrostatic equation and the equation of state; an integration is performed over the temperature profile starting at the known pressure. The density at any level is then computed from the pressure, temperature, and universal gas constant.

In the pitot-static tube experiment, two radioactive ionization pressure gages are installed in the payload so that well-established aerodynamic relationships permit these gages to measure density and ambient pressure as the Nike-Apache rocket ascends. The gage outputs are telemetered to ground-based receiving and recording equipment. A trajectory of the rocket is provided by radar tracking, Doppler tracking, or both to determine the altitude of the measurements. The measured experimental parameters are ram pressure, static pressure, and velocity and position of the payload in space. The ram pressure is related to density by the Rayleigh equation and the equation of state in the continuum region and by a modified thermal transpiration equation in the free-molecular-flow region. The ambient pressure is measured directly in the continuum region and is corrected for the thermal transpiration effect in the free-molecular-flow region. The temperature profile can be computed utilizing the pressure and density profiles and the equation of state or by integrating density using a form of the hydrostatic equation.

The rocket-borne experiments were launched from three sites: Ascension Island (8°S, 14°W), Churchill (59°N, 94°W), and Wallops Island (38°N, 75°W) because they represent typical equatorial, subarctic, and temperate locations, respectively. Table 1 summarizes the time, date, and site of each sounding. Seven soundings (four grenades and three pitot-tubes) were made at Ascension Island, seven soundings (grenades) were made at Churchill, and sixteen soundings (grenades) were made at Wallops Island. The Ascension Island soundings include a day-night pair of profiles

Table 1

## Summary of Sounding Data.

Date	Time (GMT)	Location	Experiment
24 January 1964	0016	Wallops	Grenade
29 January 1964	0411	Wallops	Grenade
29 January 1964	0417	Churchill	Grenade
29 January 1964	0418	Ascension	Grenade
4 February 1964	0135	Ascension	Pitot*
4 February 1964	0146	Wallops	Grenade
5 February 1964	0040	Churchill	Grenade
5 February 1964	0320	Wallops	Grenade
13 February 1964	0430	Churchill	Grenade
13 February 1964	0430	Wallops	Grenade
13 February 1964	0455	Ascension	Grenade
7 March 1964	0245	Wallops	Grenade
15 April 1964	0122	Ascension	Pitot*
15 April 1964	1556	Ascension	Pitot*
18 April 1964	0039	Churchill	Grenade
18 April 1964	0100	Wallops	Grenade
7 August 1964	0100	Wallops	Grenade
8 August 1964	0400	Churchill	Grenade
12 August 1964	0149	Wallops	Grenade
12 August 1964	0215	Churchill	Grenade
16 August 1964	0315	Wallops	Grenade
16 August 1964	0553	Ascension	Grenade
17 August 1964	1255	Ascension	Grenade
18 August 1964	0115	Churchill	Grenade
18 August 1964	0125	Wallops	Grenade
5 November 1964	1700	Wallops	Grenade
6 November 1964	0002	Wallops	Grenade
6 November 1964	0520	Wallops	Grenade
6 November 1964	1000	Wallops	Grenade
19 November 1964	1902	Wallops	Grenade

\*These experiments were performed by the University of Michigan, J. Horvath, principal investigator, under contract to GSFC.

on 15 April and the Wallops Island soundings include four profiles made during a 17-hour period on 5 and 6 November, which were intended to observe diurnal variations. Six soundings were made nearly simultaneously from Ascension Island, Churchill, and Wallops Island. In addition, four nearly simultaneous soundings were made from Ascension and Wallops Islands and eight were made from Churchill and Wallops Island.

## RESULTS

The results of the 30 soundings are presented in Figures 1 through 30. In the grenade experiment results, the directly measured parameters of temperature and wind are tabulated in computer printout form (left-hand page). Tables of interpolated temperature, computed pressure, percent

pressure deviation from the 1962 U.S. standard atmosphere (Reference 6), computed density, and percent density deviation from the standard atmosphere as a function of height are tabulated (right-hand page). The winds at five kilometer intervals are tabulated in component form; these components are linear interpolations of the measured winds. The individual errors in the measured winds and temperatures are also tabulated. The pitot-tube results present measured pressure and density and derived temperature. The pressure and density deviations from the 1962 U.S. standard atmosphere (Reference 6) are tabulated with the measured data.

## ERROR ANALYSIS

An error analysis has been run on an LGP 30 computer for all the grenade temperatures and winds reported herein. It was determined by the previous error analysis published in Reference 7 that more than 90 percent of the experimental error is due to the inaccuracy in the determination of the sound arrival times at the various microphones, which produces errors in the computed azimuth and zenith angles of the sound wave. Thus, by treating only azimuth and zenith errors, a good approximation to the total error was obtained.

The following procedure was utilized to obtain the azimuth and zenith errors: Four independent readings of the sound arrival time at each microphone were obtained for each grenade explosion. The average of these readings was then used to obtain a least-squares fit for a spherical sound wave with a radius equal to the distance between the explosion and the microphone array. The least-squares fit provides azimuth and zenith angles and their standard deviations for each grenade.

The problem of obtaining the wind and temperature errors was then broken into two parts. Separate calculations were made, first for the even layers between grenades and then for the odd layers. For each layer a single azimuth and zenith deviation was computed from the formulas

$$\sigma_{az} = \sqrt{\sigma_{azU}^2 + \sigma_{azL}^2}$$

and

$$\sigma_{zen} = \sqrt{\sigma_{zenU}^2 + \sigma_{zenL}^2}$$

where the subscripts U and L indicate the azimuth and zenith deviations for the upper and lower grenades bounding a given layer. The calculation is divided into two sections so that the deviations of one layer will not influence the temperature and wind of any other layer significantly.

The error for a given temperature point was computed from the formula

$$\text{Temperature error} = \sqrt{(\Delta T_{az})^2 + (\Delta T_{zen})^2}$$



where  $\Delta T_{az}$  is the change in the temperature induced by the azimuth deviation alone and  $\Delta T_{zen}$  is the change in temperature caused by the zenith deviation alone. A similar formula holds for the wind.

## ACKNOWLEDGMENTS

The authors greatly appreciate the contributions of Texas Western College in conducting the sound-range portion of this experiment; the New Mexico State University for the operation of the Doppler tracking system; and the NASA Wallops Station, the Rocket Research Facility at Churchill, and the Eastern Test Range at Ascension Island for the range support they provided.

(Manuscript received March 10, 1966)

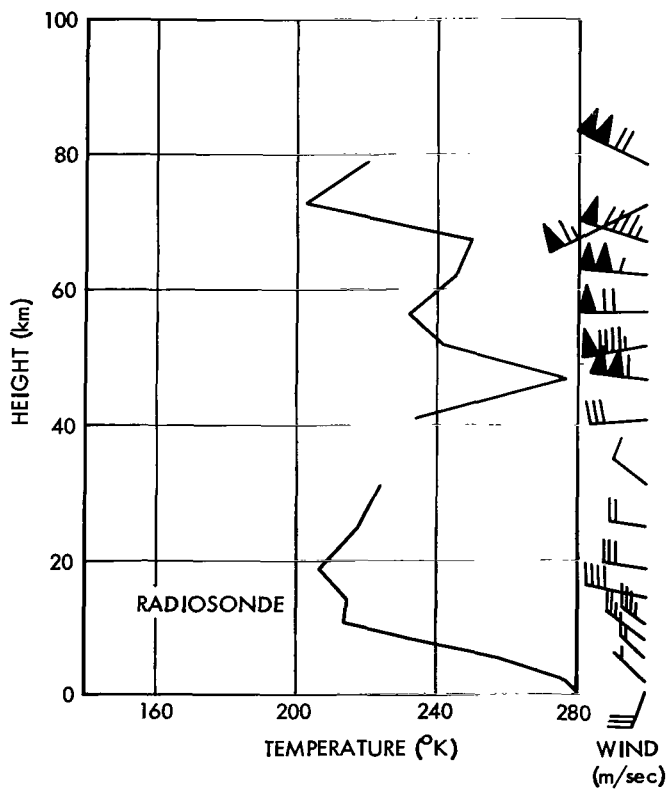
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# FIGURE 1

## 24 JANUARY 1964, 0016 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
265.957	31.596	5.126	234.934	3.304	41059.530
280.829	109.441	9.311	277.671	6.222	47056.160
257.063	94.008	10.557	240.761	6.596	52236.200
269.950	67.506	5.211	231.623	3.045	57156.460
277.382	106.967	7.651	245.450	4.481	62413.500
286.775	93.396	16.245	249.983	9.857	67436.330
236.521	64.010	19.252	202.684	10.442	73084.120
298.755	118.135	36.144	220.133	17.856	79245.470



### WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
45000.000	- 12.748	81.441
50000.000	3.085	98.472
55000.000	9.257	78.075
60000.000	- 7.407	88.371
65000.000	- 20.547	97.501
70000.000	1.308	73.066
75000.000	6.659	68.993

### LEGEND

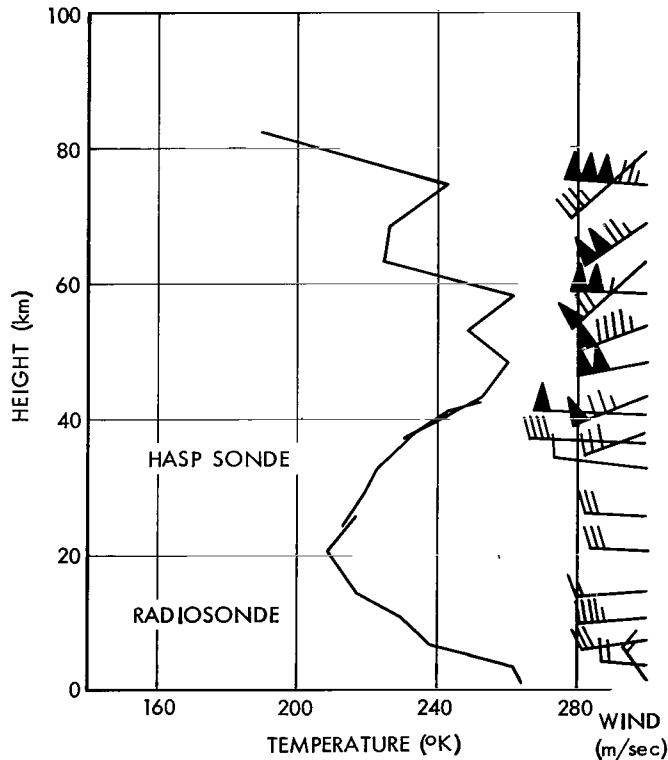
- 5 m/sec or less
- 10 m/sec
- 50 m/sec
- DIRECTION OF NORTH WIND ↓

HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.3200000	05	.8329247	03	.1282125	01-	.2263256	03	.6314323-	01	.5413152-	01
.3300000	05	.7176143	03	.1100008	01-	.2272758	03	.6476373-	01	.4950447-	01
.3400000	05	.6186804	03	.9444072	02-	.2282260	03	.6742662-	01	.4483760-	01
.3500000	05	.5337396	03	.8113681	02-	.2291763	03	.7109961-	01	.4132124-	01
.3600000	05	.4607629	03	.6975397	02-	.2301265	03	.7574209-	01	.3892336-	01
.3700000	05	.3980235	03	.6000820	02-	.2310768	03	.8130322-	01	.3763593-	01
.3800000	05	.3440492	03	.5165831	02-	.2320270	03	.8773660-	01	.3741074-	01
.3900000	05	.2975848	03	.4449952	02-	.2329772	03	.9499457-	01	.3820150-	01
.4000000	05	.2575591	03	.3835780	02-	.2339275	03	.1030285-	02	.4002284-	01
.4100000	05	.2230575	03	.3308515	02-	.2348777	03	.1117954-	02	.4278563-	01
.4200000	05	.1936342	03	.2791754	02-	.2416368	03	.1197125-	02	.6779937-	01
.4300000	05	.1687739	03	.2363615	02-	.2487635	03	.1253017-	02	.9053233-	01
.4400000	05	.1476836	03	.2010651	02-	.2558902	03	.1286897-	02	.1098979-	02
.4500000	05	.1297088	03	.1718082	02-	.2630169	03	.1300608-	02	.1262360-	02
.4600000	05	.1143222	03	.1474328	02-	.2701436	03	.1295704-	02	.1398822-	02
.4700000	05	.1010966	03	.1270256	02-	.2772703	03	.1273567-	02	.1511820-	02
.4800000	05	.8942062	02	.1149778	02-	.2709453	03	.1258639-	02	.1267725-	02
.4900000	05	.7885231	02	.1041274	02-	.2638199	03	.1271287-	02	.1045114-	02
.5000000	05	.6929677	02	.9404908	03-	.2566945	03	.1313910-	02	.8414553-	01
.5100000	05	.6068062	02	.8470663	03-	.2495691	03	.1387687-	02	.6597594-	01
.5200000	05	.5293405	02	.7606457	03-	.2424437	03	.1493572-	02	.5034418-	01
.5300000	05	.4604509	02	.6702274	03-	.2393422	03	.1621158-	02	.5640306-	01
.5400000	05	.3999643	02	.5867363	03-	.2374851	03	.1751902-	02	.7069322-	01
.5500000	05	.3470548	02	.5131323	03-	.2356280	03	.1882062-	02	.8491770-	01
.5600000	05	.3008201	02	.4483060	03-	.2337709	03	.2011620-	02	.9909960-	01
.5700000	05	.2604593	02	.3912655	03-	.2319137	03	.2140565-	02	.1151989-	02
.5800000	05	.2255288	02	.3359991	03-	.2338417	03	.2259790-	02	.1403593-	02
.5900000	05	.1955642	02	.2881165	03-	.2364718	03	.2359043-	02	.1671488-	02
.6000000	05	.1698558	02	.2474888	03-	.2391018	03	.2437611-	02	.1910015-	02
.6100000	05	.1477610	02	.2129531	03-	.2417319	03	.2496280-	02	.2121018-	02
.6200000	05	.1287398	02	.1835429	03-	.2443619	03	.2534960-	02	.2330330-	02
.6300000	05	.1123060	02	.1590609	03-	.2459788	03	.2550380-	02	.2515486-	02
.6400000	05	.9804267	01	.1383518	03-	.2468814	03	.2544509-	02	.2655314-	02
.6500000	05	.8563684	01	.1204053	03-	.2477839	03	.2518382-	02	.2774958-	02
.6600000	05	.7484070	01	.1048441	03-	.2486865	03	.2471261-	02	.2874052-	02
.6700000	05	.6544036	01	.9134363	04-	.2495891	03	.2402185-	02	.2954054-	02
.6800000	05	.5716971	01	.8120699	04-	.2452623	03	.2320884-	02	.2875955-	02
.6900000	05	.4976852	01	.7319317	04-	.2368876	03	.2246795-	02	.2680683-	02
.7000000	05	.4311173	01	.6572685	04-	.2285129	03	.2190570-	02	.2491364-	02
.7100000	05	.3714733	01	.5878822	04-	.2201382	03	.2154768-	02	.2309434-	02
.7200000	05	.3182527	01	.5235753	04-	.2117635	03	.2142160-	02	.2137682-	02
.7300000	05	.2709744	01	.4641510	04-	.2033888	03	.2155698-	02	.1978865-	02
.7400000	05	.2301480	01	.3905915	04-	.2052781	03	.2165387-	02	.2211690-	02
.7500000	05	.1958472	01	.3278555	04-	.2081100	03	.2135914-	02	.2437012-	02
.7600000	05	.1670306	01	.2758617	04-	.2109419	03	.2063167-	02	.2616122-	02
.7700000	05	.1427637	01	.2326598	04-	.2137739	03	.1945628-	02	.2752029-	02
.7800000	05	.1222807	01	.1966735	04-	.2166058	03	.1780557-	02	.2848235-	02
.7900000	05	.1049523	01	.1666244	04-	.2194377	03	.1564678-	02	.2906579-	02

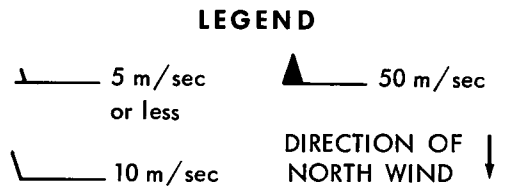
# FIGURE 2

## 29 JANUARY 1964, 0411 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
253.288	31.123	3.178	231.520	2.023	37731.360
247.899	73.415	5.348	253.225	3.406	43590.300
259.389	101.947	9.295	260.604	5.638	48665.040
252.838	93.450	7.728	248.923	4.683	53532.540
271.879	103.717	9.761	262.108	5.565	58721.530
235.889	72.367	4.681	224.872	2.891	63686.430
239.740	123.166	4.810	227.009	2.908	69302.350
277.489	173.857	31.612	243.008	17.135	75426.550
235.709	35.987	26.753	194.337	19.736	80359.650



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
40000.000	26.613	15.833
45000.000	25.163	76.960
50000.000	21.187	97.210
55000.000	18.815	93.354
60000.000	7.925	92.397
65000.000	45.608	70.786
70000.000	52.414	113.902
75000.000	- 16.759	167.778
80000.000	17.145	40.131

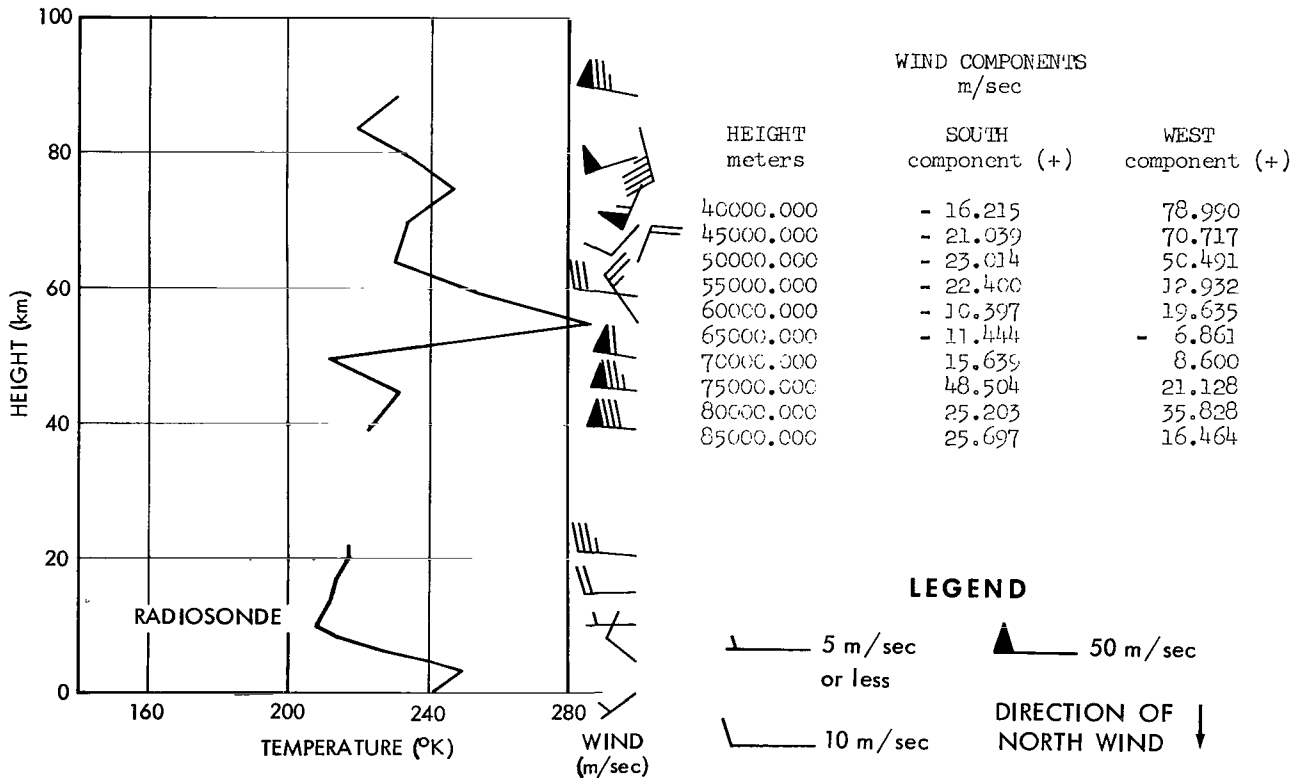


HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.3400000	05	.6193868	03	.9725947	02-	.2218647	03	.6636179-	01	.1632909-	01
.3500000	05	.5323914	03	.8263525	02-	.2244522	03	.7344608-	01	.2361638-	01
.3600000	05	.45884309	03	.7034452	02-	.2270397	03	.8041992-	01	.3078675-	01
.3700000	05	.3954328	03	.5999395	02-	.2296272	03	.8728308-	01	.3786445-	01
.3800000	05	.3417054	03	.5119876	02-	.2325148	03	.9395125-	01	.4597392-	01
.3900000	05	.2958979	03	.4363997	02-	.2362194	03	.1001246-	02	.5677954-	01
.4000000	05	.2568171	03	.3729138	02-	.2399240	03	.1056124-	02	.6671227-	01
.4100000	05	.2233919	03	.3194458	02-	.2436286	03	.1104638-	02	.7578442-	01
.4200000	05	.1947347	03	.2742958	02-	.2473332	03	.1147093-	02	.8409324-	01
.4300000	05	.1701078	03	.2360712	02-	.2510379	03	.1183887-	02	.9164931-	01
.4400000	05	.1488600	03	.2043194	02-	.2538204	03	.1217491-	02	.9549149-	01
.4500000	05	.1304164	03	.1779848	02-	.2552745	03	.1253149-	02	.9482352-	01
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.4700000	05	.1003390	03	.1353945	02-	.2581827	03	.1338960-	02	.9525917-	01
.4800000	05	.8811399	02	.1182325	02-	.2596367	03	.1386370-	02	.1020543-	02
.4900000	05	.7741322	02	.1038088	02-	.2597999	03	.1430590-	02	.1072512-	02
.5000000	05	.6797623	02	.9200396	03-	.2574001	03	.1479433-	02	.1040610-	02
.5100000	05	.5961946	02	.8145272	03-	.2550002	03	.1538297-	02	.1018554-	02
.5200000	05	.5222736	02	.7203144	03-	.2526004	03	.1607137-	02	.1006971-	02
.5300000	05	.4569592	02	.6362785	03-	.2502006	03	.1684696-	02	.1041988-	02
.5400000	05	.3995606	02	.5565563	03-	.2501104	03	.1760226-	02	.1184942-	02
.5500000	05	.3496181	02	.4820924	03-	.2526514	03	.1822105-	02	.1402720-	02
.5600000	05	.3063397	02	.4182093	03-	.2551924	03	.1865042-	02	.1595809-	02
.5700000	05	.2687812	02	.3633175	03-	.2577334	03	.1889450-	02	.1765429-	02
.5800000	05	.2361398	02	.3160792	03-	.2602744	03	.1895617-	02	.1913238-	02
.5900000	05	.2075883	02	.2781348	03-	.2600194	03	.1889245-	02	.1960028-	02
.6000000	05	.1821397	02	.2512857	03-	.2525195	03	.1890701-	02	.1785900-	02
.6100000	05	.1591887	02	.2263442	03-	.2450197	03	.1915950-	02	.1625567-	02
.6200000	05	.1385543	02	.2032254	03-	.2375199	03	.1965865-	02	.1507858-	02
.6300000	05	.1200639	02	.1818464	03-	.2300201	03	.2035775-	02	.1443326-	02
.6400000	05	.1036369	02	.1604749	03-	.2249913	03	.2119102-	02	.1480869-	02
.6500000	05	.8932656	01	.1380826	03-	.2253719	03	.2196032-	02	.1714215-	02
.6600000	05	.7701508	01	.1188506	03-	.2257525	03	.2252525-	02	.1922069-	02
.6700000	05	.6642015	01	.1023279	03-	.2261331	03	.2288428-	02	.2106767-	02
.6800000	05	.5729953	01	.8812816	04-	.2265137	03	.2303447-	02	.2268781-	02
.6900000	05	.4944588	01	.7592148	04-	.2268943	03	.2297058-	02	.2407852-	02
.7000000	05	.4270253	01	.6501224	04-	.2288320	03	.2264692-	02	.2573000-	02
.7100000	05	.3693397	01	.5559523	04-	.2314444	03	.2199828-	02	.2727136-	02
.7200000	05	.3199816	01	.4762796	04-	.2340568	03	.2099473-	02	.2847903-	02
.7300000	05	.2776736	01	.4087437	04-	.2366692	03	.1961763-	02	.2936375-	02
.7400000	05	.2413456	01	.3513890	04-	.2392816	03	.1784203-	02	.2993379-	02
.7500000	05	.2100990	01	.3025917	04-	.2418940	03	.1563644-	02	.3019799-	02
.7600000	05	.1828030	01	.2683189	04-	.2373505	03	.1313709-	02	.2818015-	02
.7700000	05	.1583729	01	.2425425	04-	.2274841	03	.1065000-	02	.2444158-	02
.7800000	05	.1363438	01	.2182727	04-	.2176177	03	.8352600-	01	.2062811-	02
.7900000	05	.1165716	01	.1954821	04-	.2077514	03	.6307975-	01	.1678069-	02
.8000000	05	.9891472	00	.1741431	04-	.1978850	03	.4577730-	01	.1288490-	02

# FIGURE 3

## 29 JANUARY 1964, 0417 GMT, CHURCHILL

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
280.720	81.932	2.324	223.674	1.009	39020.900
286.286	74.657	3.466	232.723	1.415	44742.400
293.101	58.354	3.703	212.910	1.367	49648.940
336.420	26.733	3.979	287.936	1.701	54386.900
287.774	28.810	4.097	255.106	1.686	58971.800
31.932	19.502	2.974	229.783	1.018	63948.550
217.633	11.721	2.406	234.570	.710	69267.790
197.855	55.818	29.835	247.944	9.499	74318.640
245.850	49.876	35.975	234.186	10.062	79138.540
172.544	46.322	15.059	220.991	4.127	83722.350
287.803	73.482	20.586	232.364	6.793	88041.350

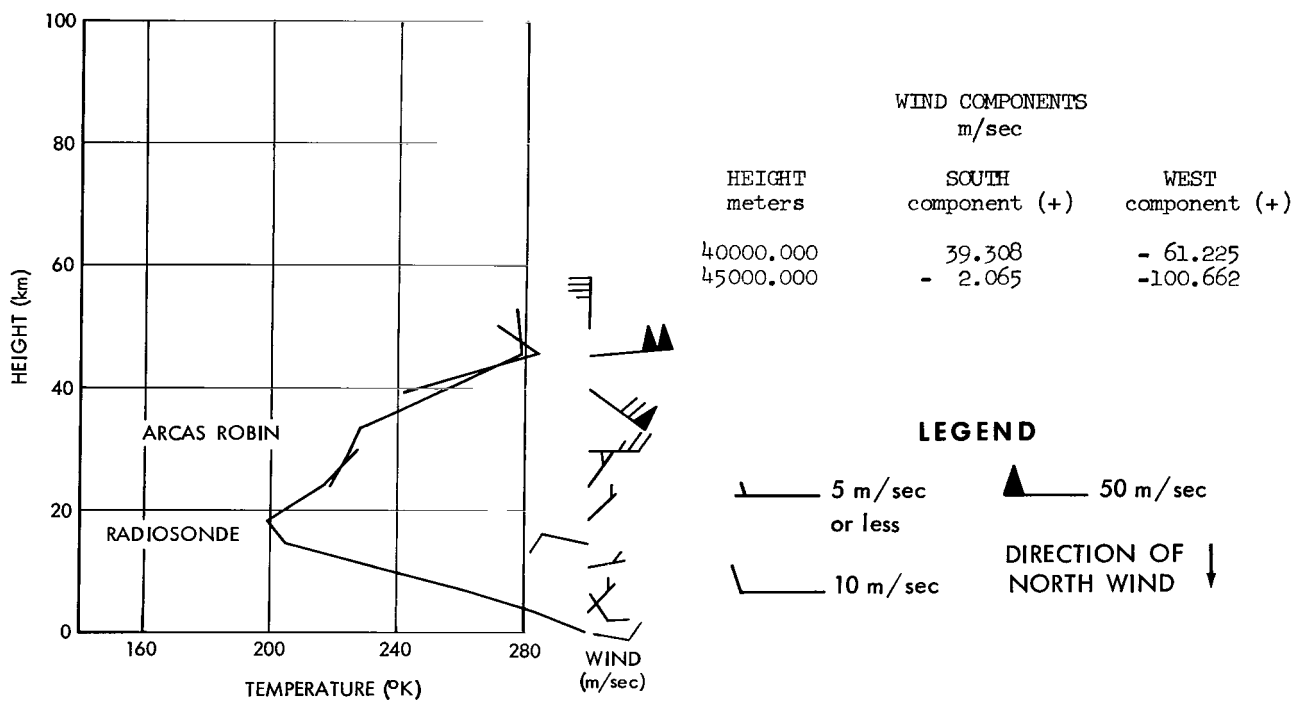


HEIGHT meters		PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)				
.300000	05	.1034455	04	.1633171	01-	.2206673	03	.1358153-	02	.1128888-	02
.310000	05	.8873264	03	.1398776	01-	.2210006	03	.1395706-	02	.1142504-	02
.320000	05	.7613359	03	.1198358	01-	.2213339	03	.1436649-	02	.1159294-	02
.330000	05	.6534161	03	.1026943	01-	.2216673	03	.1484305-	02	.1126387-	02
.340000	05	.5609498	03	.8802946	02-	.2220006	03	.1544473-	02	.1096804-	02
.350000	05	.4817008	03	.7547963	02-	.2223339	03	.1616661-	02	.1081641-	02
.360000	05	.4137622	03	.6473701	02-	.2226672	03	.1700222-	02	.1080475-	02
.370000	05	.3555033	03	.5553872	02-	.2230006	03	.1794461-	02	.1093140-	02
.380000	05	.3055312	03	.4766056	02-	.2233339	03	.1898689-	02	.1119039-	02
.390000	05	.2626546	03	.4091108	02-	.2236672	03	.2012229-	02	.1157610-	02
.400000	05	.2259495	03	.3495083	02-	.2252226	03	.2131116-	02	.1252888-	02
.410000	05	.1945859	03	.2988951	02-	.2268041	03	.2251678-	02	.1352416-	02
.420000	05	.1677577	03	.2559010	02-	.2283855	03	.2373506-	02	.1455155-	02
.430000	05	.1447831	03	.2193363	02-	.2299670	03	.2496377-	02	.1560415-	02
.440000	05	.1250869	03	.1882036	02-	.2315485	03	.2620068-	02	.1668350-	02
.450000	05	.1081347	03	.1626037	02-	.2316824	03	.2747551-	02	.1730474-	02
.460000	05	.9336722	02	.1428879	02-	.2276444	03	.2891182-	02	.1663966-	02
.470000	05	.8040859	02	.1252785	02-	.2236064	03	.3059310-	02	.1628569-	02
.480000	05	.6906348	02	.1095814	02-	.2195684	03	.3248663-	02	.1677573-	02
.490000	05	.5915470	02	.9561783	03-	.2155304	03	.3451753-	02	.1776931-	02
.500000	05	.5065028	02	.8076999	03-	.2184691	03	.3651177-	02	.2134580-	02
.510000	05	.4364796	02	.6489964	03-	.2343041	03	.3805109-	02	.2843792-	02
.520000	05	.3798327	02	.5290162	03-	.2501391	03	.3896142-	02	.3395305-	02
.530000	05	.3333845	02	.4366809	03-	.2659741	03	.3933390-	02	.3852076-	02
.540000	05	.2948437	02	.3644979	03-	.2818091	03	.3919708-	02	.4226874-	02
.550000	05	.2617743	02	.3216342	03-	.2835456	03	.3876854-	02	.4264214-	02
.560000	05	.2321534	02	.2926296	03-	.2763853	03	.3835086-	02	.4119416-	02
.570000	05	.2052441	02	.2655912	03-	.2692249	03	.3806699-	02	.3980391-	02
.580000	05	.1808594	02	.2404313	03-	.2620646	03	.3792855-	02	.3848659-	02
.590000	05	.1588231	02	.2170178	03-	.2549627	03	.3794566-	02	.3726722-	02
.600000	05	.1390412	02	.1938564	03-	.2498743	03	.3809553-	02	.3663168-	02
.610000	05	.1213955	02	.1727725	03-	.2447859	03	.3835192-	02	.3607648-	02
.620000	05	.1056921	02	.1536163	03-	.2396975	03	.3871393-	02	.3580865-	02
.630000	05	.9175097	01	.1362461	03-	.2346091	03	.3913862-	02	.3589023-	02
.640000	05	.7941326	01	.1203779	03-	.2298288	03	.3961152-	02	.3609496-	02
.650000	05	.6865454	01	.1036635	03-	.2307287	03	.4002032-	02	.3779570-	02
.660000	05	.5938973	01	.8932586	04-	.2316287	03	.4025580-	02	.3928780-	02
.670000	05	.5140636	01	.7701912	04-	.2325287	03	.4031573-	02	.4059000-	02
.680000	05	.4452296	01	.6644895	04-	.2334286	03	.4019613-	02	.4170634-	02
.690000	05	.3858432	01	.5736457	04-	.2343286	03	.3989130-	02	.4263543-	02
.700000	05	.3347054	01	.4930308	04-	.2365085	03	.3937013-	02	.4367614-	02
.710000	05	.2907769	01	.4235804	04-	.2391565	03	.3859013-	02	.4458799-	02
.720000	05	.2530165	01	.3645378	04-	.2418046	03	.3752880-	02	.4525885-	02
.730000	05	.2205028	01	.3142517	04-	.2444526	03	.3616773-	02	.4569319-	02
.740000	05	.1924604	01	.2713475	04-	.2471006	03	.3448333-	02	.4589390-	02
.750000	05	.1680631	01	.2380107	04-	.2459994	03	.3451560-	02	.4509557-	02
.760000	05	.1466038	01	.2100575	04-	.2431450	03	.3033792-	02	.4377475-	02
.770000	05	.1276839	01	.1851219	04-	.2402905	03	.2796393-	02	.4232962-	02
.780000	05	.1110270	01	.1629072	04-	.2374360	03	.2537003-	02	.4076102-	02
.790000	05	.9638421	00	.1431430	04-	.2345815	03	.2253319-	02	.3906214-	02
.800000	05	.8353098	00	.1255938	04-	.2317062	03	.1941831-	02	.3717170-	02
.810000	05	.7226570	00	.1100226	04-	.2288275	03	.1616896-	02	.3380105-	02
.820000	05	.6240797	00	.9622503	05-	.2259489	03	.1294867-	02	.3037262-	02
.830000	05	.5379614	00	.8401712	05-	.2230702	03	.9774346-	01	.2694163-	02
.840000	05	.4630950	00	.7276450	05-	.2217219	03	.6619004-	01	.2391037-	02
.850000	05	.3988379	00	.6193246	05-	.2243553	03	.3312024-	01	.2214650-	02
.860000	05	.3441118	00	.5281457	05-	.2269886	03	.2861415	00	.2018350-	02
.870000	05	.2974142	00	.4512389	05-	.2296219	03	.4194992	01	.1801618-	02
.880000	05	.2574930	00	.3862408	05-	.2322552	03	.8436368	01	.1564952-	02

# FIGURE 4

## 29 JANUARY 1964, 0418 GMT, ASCENSION ISLAND

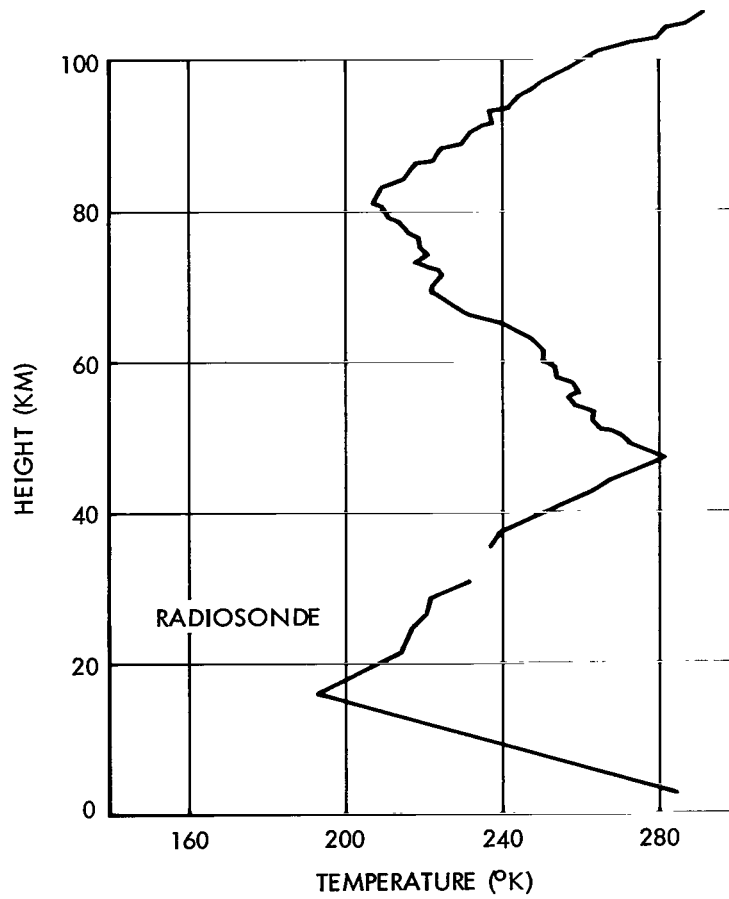
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec ( $\pm$ )	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin ( $\pm$ )	HEIGHT meters
125.785	72.136	22.128	242.003	4.854	39652.750
87.872	102.385	22.734	283.557	8.119	45209.650
4.548	35.803	30.713	271.162	10.372	49967.600





HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.310000	05	.1030452	04	.1564908	01-	.2294019	03	.7834916-	01-	.9049847-	00
.320000	05	.8899158	03	.1342956	01-	.2308582	03	.9591931	01-	.9254070-	00
.330000	05	.7692903	03	.1153645	01-	.2323145	03	.2583447	00	.3158514-	00
.340000	05	.6656511	03	.9920062	02-	.2337708	03	.3374997	00	.3303532	00
.350000	05	.5765176	03	.8538533	02-	.2352272	03	.3349539	00	.8877462	00
.360000	05	.4997854	03	.7356542	02-	.2366835	03	.2534286	00	.1359117	01
.370000	05	.4336645	03	.6344245	02-	.2381398	03	.9612817	01-	.1743980	01
.380000	05	.3766338	03	.5476430	02-	.2395961	03	.1337022-	00	.2046572	01
.390000	05	.3273969	03	.4731742	02-	.2410525	03	.4330937-	00	.2270364	01
.400000	05	.2850194	03	.4059538	02-	.2445998	03	.7395393-	00	.1597667	01
.410000	05	.2489005	03	.3439930	02-	.2520776	03	.8889826-	00	.4765134-	00
.420000	05	.2182304	03	.2929160	02-	.2595555	03	.7894903-	00	.2191786-	01
.430000	05	.1920632	03	.2505745	02-	.2670334	03	.4601021-	00	.3584404-	01
.440000	05	.1696376	03	.2152882	02-	.2745112	03	.8355172	01-	.4693359-	01
.450000	05	.1503369	03	.1857340	02-	.2819891	03	.8289324	00	.5541341-	01
.460000	05	.1334377	03	.1651435	02-	.2814979	03	.1597131	01	.3655867-	01
.470000	05	.1183644	03	.1478570	02-	.2788929	03	.2169508	01	.1198148-	01
.480000	05	.1048798	03	.1322477	02-	.2762879	03	.2525771	01	.4387302	00
.490000	05	.9282846	02	.1181658	02-	.2736828	03	.2758303	01	.1621775	01

FIGURE 5  
4 FEBRUARY 1964, 0135 GMT, ASCENSION ISLAND

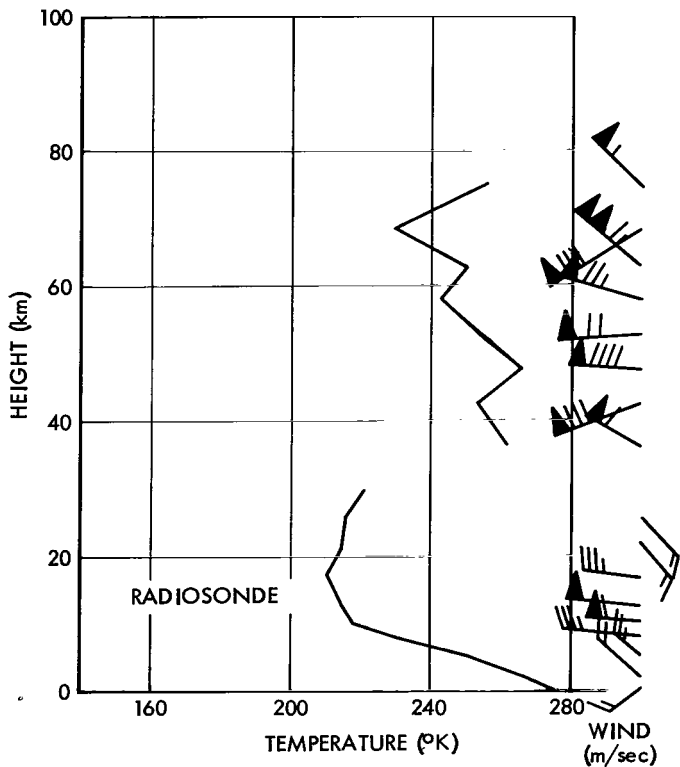


HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)
.3500000	05 .5039571	03 .7389999	02- .2375000	03 .1229320-	02 .1268284-
.3600000	05 .4372961	03 .6389999	02- .2384000	03 .1228148-	02 .1195800-
.3700000	05 .3799676	03 .5519999	02- .2399000	03 .1229788-	02 .1147462-
.3800000	05 .3306385	03 .4739999	02- .2431000	03 .1232957-	02 .1167592-
.3900000	05 .2879755	03 .4049999	02- .2477000	03 .1242181-	02 .1246461-
.4000000	05 .2519785	03 .3480000	02- .2523000	03 .1224631-	02 .1290637-
.4100000	05 .2213145	03 .3000000	02- .2556000	03 .1187359-	02 .1320448-
.4200000	05 .1933169	03 .2579999	02- .2610000	03 .1211551-	02 .1385069-
.4300000	05 .1706521	03 .2250000	02- .2642000	03 .1155674-	02 .1342491-
.4400000	05 .1493206	03 .1950000	02- .2668000	03 .1190316-	02 .1367479-
.4500000	05 .1333220	03 .1700000	02- .2732000	03 .1058276-	02 .1354321-
.4600000	05 .1173233	03 .1480000	02- .2762000	03 .1067203-	02 .1365731-
.4700000	05 .1046578	03 .1300000	02- .2805000	03 .9661755-	01 .1313065-
.4800000	05 .9332539	02 .1170000	02- .2779000	03 .8769257-	01 .1114149-
.4900000	05 .8132641	02 .1040000	02- .2725000	03 .9974114-	01 .1056072-
.5000000	05 .7266048	02 .9349998	03- .2707000	03 .8922800-	01 .894261-
.5100000	05 .6399455	02 .8399999	03- .2653000	03 .9173469-	01 .7376771-
.5200000	05 .5666184	02 .7499998	03- .2632000	03 .8945221-	01 .6363529-
.5300000	05 .5066235	02 .6699999	03- .2635000	03 .7809519-	01 .5672324-
.5400000	05 .4426289	02 .5949999	03- .2592000	03 .8720676-	01 .5760491-
.5500000	05 .3932998	02 .5299999	03- .2585000	03 .8003483-	01 .5483728-
.5600000	05 .3466371	02 .4650000	03- .2597000	03 .7949300-	01 .6555200-
.5700000	05 .3039741	02 .4100000	03- .2583000	03 .8274922-	01 .7073733-
.5800000	05 .2666440	02 .3650000	03- .2545000	03 .8487067-	01 .6616181-
.5900000	05 .2333135	02 .3200000	03- .2540000	03 .8841263-	01 .7498406-
.6000000	05 .2039826	02 .2830000	03- .2510000	03 .9182015-	01 .7492153-
.6100000	05 .1799847	02 .2500000	03- .2500000	03 .8598712-	01 .7503335-
.6200000	05 .1559867	02 .2180000	03- .2494000	03 .9550360-	01 .8904774-
.6300000	05 .1373216	02 .1950000	03- .2455000	03 .8910145-	01 .8243935-
.6400000	05 .1199898	02 .1720000	03- .2430000	03 .8755785-	01 .8690338-
.6500000	05 .1039911	02 .1520000	03- .2383000	03 .9148678-	01 .8790877-
.6600000	05 .8932572	01 .1340000	03- .2322000	03 .1014113-	02 .8924084-
.6700000	05 .7732675	01 .1180000	03- .2283000	03 .1022140-	02 .8978703-
.6800000	05 .6666099	01 .1030000	03- .2255000	03 .1046002-	02 .9641196-
.6900000	05 .5732845	01 .8999999	04- .2220000	03 .1069068-	02 .1000000-
.7000000	05 .4932913	01 .7699999	04- .2232000	03 .1064323-	02 .1203518-
.7100000	05 .4266303	01 .6599999	04- .2252000	03 .9898930-	02 .1366003-
.7200000	05 .3666355	01 .5699999	04- .2240000	03 .9475626-	01 .1440542-
.7300000	05 .3133067	01 .5000000	04- .2185000	03 .9302404-	01 .1359347-
.7400000	05 .2706436	01 .4500000	04- .2205000	03 .7068504-	01 .1425893-
.7500000	05 .2333134	01 .3700000	04- .2197000	03 .6314859-	01 .1464821-
.7600000	05 .2013162	01 .3200000	04- .2192000	03 .4340120-	01 .1434689-
.7700000	05 .1706521	01 .2750000	04- .2162000	03 .3722341-	01 .1433021-
.7800000	05 .1466542	01 .2380000	04- .2147000	03 .1422202-	01 .1345454-
.7900000	05 .1253227	01 .2070000	04- .2110000	03 .7255021	00 .1187740-
.8000000	05 .1066576	01 .1770000	04- .2100000	03 .2891747	01 .1145573-
.8100000	05 .9065894	00 .1520000	04- .2078000	03 .5167923	01 .8543921-
.8200000	05 .7732675	00 .1280000	04- .2105000	03 .7861172	01 .7380609-
.8300000	05 .6532777	00 .1080000	04- .2108000	03 .9566233	01 .6086956-
.8400000	05 .5666184	00 .9199999	05- .2145000	03 .1425602	02 .3795873-
.8500000	05 .4839588	00 .7799999	05- .2162000	03 .1732334	02 .1948468-
.8600000	05 .4132981	00 .6599999	05- .2182000	03 .2044944	02 .2569113-
.8700000	05 .3533032	00 .5499999	05- .2238000	03 .2377495	02 .7268192-
.8800000	05 .3039741	00 .4699999	05- .2253000	03 .2801067	02 .2642510
.8900000	05 .2639775	00 .4000000	05- .2300000	03 .3361891	02 .4986877
.9000000	05 .2266474	00 .3400000	05- .2322000	03 .3788014	02 .7255522
.9100000	05 .1959833	00 .2900000	05- .2354000	03 .4307440	02 .1162433
.9200000	05 .1706521	00 .2500000	05- .2378000	03 .4905419	02 .1698643
.9300000	05 .1466542	00 .2150000	05- .2376000	03 .5280139	02 .2195122
.9400000	05 .1279891	00 .1840000	05- .2423000	03 .5863207	02 .2611378
.9500000	05 .1106572	00 .1580000	05- .2440000	03 .6270254	02 .3047068
.9600000	05 .9665844	01- .1360000	05- .2476000	03 .6815135	02 .3492064
.9700000	05 .8465945	01- .1180000	05- .2500000	03 .7380660	02 .4022578
.9800000	05 .7466030	01- .1020000	05- .2550000	03 .8043916	02 .4480408
.9900000	05 .6532776	01- .8799999	06- .2585000	03 .8540590	02 .4887497
1.0000000	06 .5732845	01- .7649999	06- .2610000	03 .9061830	02 .5379976
1.0100000	06 .5092900	01- .6699999	06- .2650000	03 .9797989	02 .6109641
1.0200000	06 .4532947	01- .5799999	06- .2720000	03 .1048975	03 .6604636
1.0300000	06 .3999659	01- .5000000	06- .2788000	03 .1096917	03 .6977929
1.0400000	06 .3559697	01- .4399999	06- .2820000	03 .1157392	03 .7656500
1.0500000	06 .3133067	01- .3799999	06- .2872000	03 .1188201	03 .7949927
1.0600000	06 .2799762	01- .3349999	06- .2911000	03 .1246639	03 .8569844

# FIGURE 6

## 4 FEBRUARY 1964, 0146 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
300.706	54.930	5.182	261.578	3.164	36936.300
252.188	81.664	5.092	254.147	3.668	42854.900
274.690	90.760	11.632	266.534	7.683	47985.900
266.811	69.165	12.729	254.765	9.084	52898.750
281.904	73.369	17.857	243.673	11.954	58139.500
310.356	117.152	19.813	250.709	12.451	63179.850
233.969	88.648	9.642	229.274	7.177	68868.700
313.924	55.408	32.818	256.346	26.937	75078.990



### WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.000	- .599	63.028
45000.000	11.434	83.062
50000.000	- 2.802	81.683
55000.000	- 3.763	70.154
60000.000	- 37.549	78.245
65000.000	- 34.905	83.648
70000.000	35.644	65.900
75000.000	- 37.285	40.312

### LEGEND

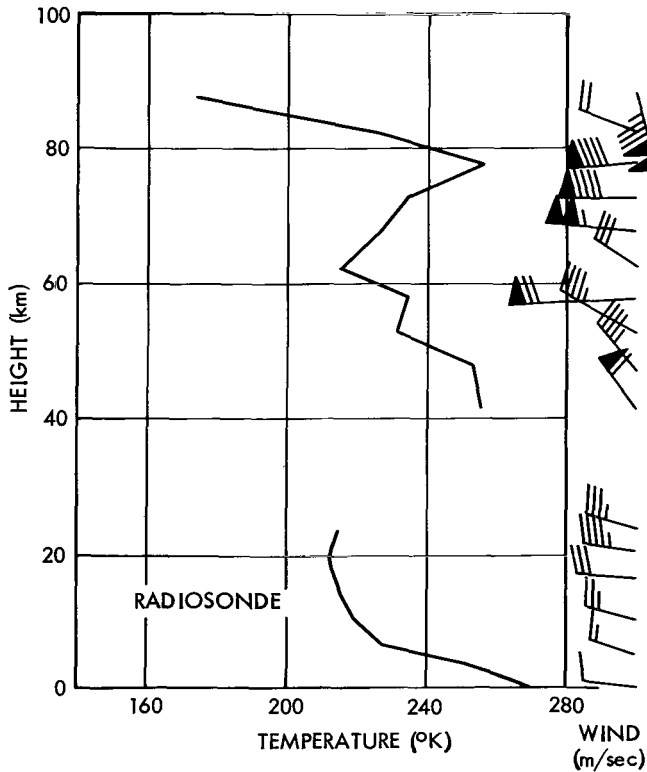
- 5 m/sec or less
- 10 m/sec
- 50 m/sec
- DIRECTION OF NORTH WIND ↓

HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.2900000	05	.1289144	04	.2031776	01-	.2210465	03	.7283852-	01	.5401966-	01
.3000000	05	.1108143	04	.1707066	01-	.2261536	03	.7425646-	01	.7275072-	01
.3100000	05	.9558230	03	.1439904	01-	.2312608	03	.7315028-	01	.8820649-	01
.3200000	05	.8271450	03	.1219133	01-	.2363679	03	.6964415-	01	.1006024-	02
.3300000	05	.7180379	03	.1035936	01-	.2414751	03	.6421169-	01	.1048677-	02
.3400000	05	.6251981	03	.8833117	02-	.2465822	03	.5760211-	01	.1066289-	02
.3500000	05	.5459326	03	.7556700	02-	.2516894	03	.4987949-	01	.1071318-	02
.3600000	05	.4780366	03	.6485301	02-	.2567965	03	.4109211-	01	.1064492-	02
.3700000	05	.4196555	03	.5590904	02-	.2614984	03	.3137334-	01	.1033750-	02
.3800000	05	.3687374	03	.4936243	02-	.2602428	03	.2227470-	01	.8019161-	01
.3900000	05	.3238075	03	.4355788	02-	.2589872	03	.1524677-	01	.5855394-	01
.4000000	05	.2841845	03	.3841411	02-	.2577316	03	.1030311-	01	.3861358-	01
.4100000	05	.2492611	03	.3385836	02-	.2564761	03	.7453708-	00	.2041546-	01
.4200000	05	.2184978	03	.2982564	02-	.2552205	03	.6679081-	00	.4085732-	00
.4300000	05	.1914410	03	.2620655	02-	.2544974	03	.7825714-	00	.8370937	00
.4400000	05	.1678151	03	.2275652	02-	.2569114	03	.9916827-	00	.7416175	00
.4500000	05	.1472923	03	.1978760	02-	.2593254	03	.1213060-	01	.6336739	00
.4600000	05	.1294408	03	.1722900	02-	.2617395	03	.1445984-	01	.5134268	00
.4700000	05	.1138925	03	.1502093	02-	.2641535	03	.1690537-	01	.3737426	00
.4800000	05	.1003309	03	.1311583	02-	.2664998	03	.1921020-	01	.3885993-	00
.4900000	05	.8838646	02	.1165919	02-	.2641043	03	.2158858-	01	.2682418	00
.5000000	05	.7777723	02	.1035362	02-	.2617088	03	.2509144-	01	.8240672	00
.5100000	05	.6836379	02	.9184583	03-	.2593133	03	.2972279-	01	.1274497	01
.5200000	05	.6002018	02	.8138816	03-	.2569178	03	.3548415-	01	.1612020	01
.5300000	05	.5263323	02	.7203508	03-	.2545506	03	.4223114-	01	.1416458	01
.5400000	05	.4610373	02	.6362771	03-	.2524340	03	.4924485-	01	.7772299	00
.5500000	05	.4034092	02	.5614521	03-	.2503175	03	.5638795-	01	.1252282	00
.5600000	05	.3525992	02	.4949211	03-	.2482010	03	.6366054-	01	.5423529-	00
.5700000	05	.3078467	02	.4358214	03-	.2460845	03	.7106355-	01	.1221324-	01
.5800000	05	.2684707	02	.3833737	03-	.2439679	03	.7860131-	01	.1915338-	01
.5900000	05	.2340623	02	.3330023	03-	.2448739	03	.8548670-	01	.3739869-	01
.6000000	05	.2042036	02	.2888752	03-	.2462699	03	.9083628-	01	.5571645-	01
.6100000	05	.1782990	02	.2508078	03-	.2476659	03	.9454732-	01	.7204469-	01
.6200000	05	.1558059	02	.2179389	03-	.2490618	03	.9655234-	01	.8930289-	01
.6300000	05	.1362586	02	.1895342	03-	.2504578	03	.9615249-	01	.1081583-	02
.6400000	05	.1191222	02	.1675974	03-	.2476187	03	.9415541-	01	.1102754-	02
.6500000	05	.1039572	02	.1485211	03-	.2438510	03	.9178329-	01	.1087840-	02
.6600000	05	.9053453	01	.1313744	03-	.2400832	03	.8925110-	01	.1070863-	02
.6700000	05	.7867616	01	.1159870	03-	.2363154	03	.8654703-	01	.1053148-	02
.6800000	05	.6821993	01	.1022015	03-	.2325477	03	.8366042-	01	.1034166-	02
.6900000	05	.5903816	01	.8948568	04-	.2298463	03	.8027206-	01	.1051431-	02
.7000000	05	.5112077	01	.7604285	04-	.2342055	03	.7397793-	01	.1312863-	02
.7100000	05	.4438479	01	.6481656	04-	.2385648	03	.6262714-	01	.1520818-	02
.7200000	05	.3863678	01	.5541005	04-	.2429241	03	.4603609-	01	.1679298-	02
.7300000	05	.3371765	01	.4750295	04-	.2472833	03	.2392447-	01	.1790869-	02
.7400000	05	.2949614	01	.4083563	04-	.2516426	03	.4096711	00	.1857464-	02
.7500000	05	.2586358	01	.3519684	04-	.2560018	03	.3853106	01	.1880776-	02

# FIGURE 7

## 5 FEBRUARY 1964, 0040 GMT, CHURCHILL

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
323.907	62.002	2.333	255.423	.830	41898.850
319.029	43.215	2.478	254.387	.676	47697.900
295.651	46.144	2.231	231.873	.566	52673.650
268.426	71.848	5.718	234.881	1.474	57561.100
299.414	30.710	6.629	214.915	1.760	62228.440
272.676	103.603	8.151	226.528	2.009	67223.000
271.735	91.840	7.789	233.026	2.108	72650.300
269.994	89.404	13.902	257.171	4.367	77787.890
292.666	19.209	9.050	225.267	6.694	82689.190
167.418	136.426	21.052	173.820	4.383	87366.300



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
45000.000	- 40.758	32.145
50000.000	- 26.775	34.471
55000.000	- 9.528	55.983
60000.000	- 6.939	48.270
65000.000	- 9.397	69.335
70000.000	- 3.784	97.507
75000.000	- 1.504	90.703
80000.000	- 3.335	57.053
85000.000	62.040	- 5.715

### LEGEND

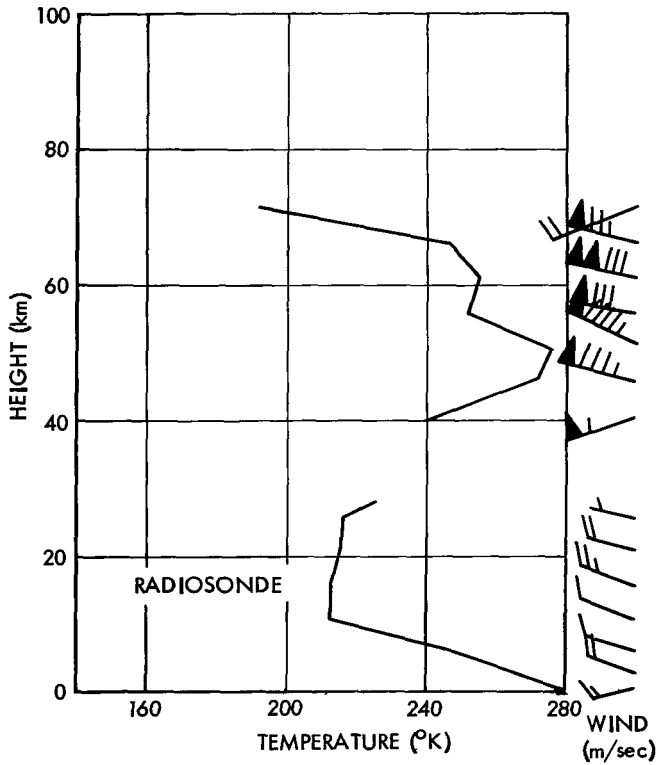
- 5 m/sec or less
- 10 m/sec
- ▲ 50 m/sec
- ↓ DIRECTION OF NORTH WIND

HEIGHT meters		PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)				
.300000	05	.1055150	04	.1593678	01-	.2306597	03	.1185267-	02	.1343409-	02
.310000	05	.9116101	03	.1364566	01-	.2327409	03	.1160230-	02	.1359129-	02
.320000	05	.7886587	03	.1170061	01-	.2348221	03	.1129328-	02	.1368051-	02
.330000	05	.6831934	03	.1004687	01-	.2369032	03	.1096229-	02	.1318697-	02
.340000	05	.5926019	03	.8638762	02-	.2389844	03	.1067364-	02	.1262856-	02
.350000	05	.5146798	03	.7438065	02-	.2410656	03	.1042707-	02	.1211491-	02
.360000	05	.4475651	03	.6412772	02-	.2431468	03	.1022158-	02	.1164423-	02
.370000	05	.3896830	03	.5536045	02-	.2452280	03	.1005544-	02	.1121730-	02
.380000	05	.3396984	03	.4785326	02-	.2473092	03	.9927280-	01	.1083132-	02
.390000	05	.2964788	03	.4141638	02-	.2493903	03	.9835806-	01	.1048396-	02
.400000	05	.2590617	03	.3588992	02-	.2514715	03	.9779553-	01	.1017863-	02
.410000	05	.2266280	03	.3113892	02-	.2535527	03	.9757762-	01	.9909375-	01
.420000	05	.1984683	03	.2707194	02-	.2554053	03	.9773604-	01	.9603511-	01
.430000	05	.1738892	03	.2373585	02-	.2552265	03	.9879096-	01	.8669607-	01
.440000	05	.1523466	03	.2080987	02-	.2550478	03	.1011787-	02	.7876086-	01
.450000	05	.1334656	03	.1824359	02-	.2548690	03	.1048645-	02	.7218656-	01
.460000	05	.1169189	03	.1599302	02-	.2546903	03	.1097997-	02	.6697260-	01
.470000	05	.1024181	03	.1401933	02-	.2545115	03	.1159502-	02	.6319217-	01
.480000	05	.8968083	02	.1234819	02-	.2530198	03	.1233202-	02	.6218667-	01
.490000	05	.7840571	02	.1099229	02-	.2484951	03	.1320724-	02	.5467086-	01
.500000	05	.6838203	02	.9764793	03-	.2439704	03	.1428568-	02	.4909975-	01
.510000	05	.5948986	02	.8655541	03-	.2394456	03	.1556691-	02	.4559023-	01
.520000	05	.5161892	02	.7655004	03-	.2349209	03	.1704913-	02	.4428309-	01
.530000	05	.4469124	02	.6708954	03-	.2320736	03	.1867518-	02	.5546254-	01
.540000	05	.3866839	02	.5789463	03-	.2326890	03	.2025772-	02	.8303155-	01
.550000	05	.3347151	02	.4998164	03-	.2333044	03	.2170700-	02	.1086643-	02
.560000	05	.2898537	02	.4316881	03-	.2339198	03	.2302833-	02	.1324943-	02
.570000	05	.2511115	02	.3730068	03-	.2345352	03	.2422639-	02	.1545822-	02
.580000	05	.2174955	02	.3251973	03-	.2330030	03	.2535496-	02	.1679955-	02
.590000	05	.1880472	02	.2864249	03-	.2287254	03	.2652741-	02	.1720388-	02
.600000	05	.1621477	02	.2516829	03-	.2244477	03	.2780795-	02	.1772918-	02
.610000	05	.1394237	02	.2206157	03-	.2201701	03	.2919673-	02	.1837514-	02
.620000	05	.1195354	02	.1928933	03-	.2158925	03	.3068685-	02	.1939606-	02
.630000	05	.1023634	02	.1645605	03-	.2167092	03	.3209903-	02	.2256705-	02
.640000	05	.8776050	01	.1395870	03-	.2190343	03	.3326401-	02	.2589743-	02
.650000	05	.7536674	01	.1186150	03-	.2213595	03	.3415624-	02	.2882385-	02
.660000	05	.6482932	01	.1009703	03-	.2236846	03	.3478375-	02	.3137342-	02
.670000	05	.5585470	01	.8609757	04-	.2260097	03	.3515107-	02	.3358718-	02
.680000	05	.4818449	01	.7380118	04-	.2274585	03	.3527792-	02	.3525644-	02
.690000	05	.4160511	01	.6339029	04-	.2286557	03	.3518534-	02	.3660970-	02
.700000	05	.3595330	01	.5449376	04-	.2298530	03	.3487276-	02	.3774631-	02
.710000	05	.3109422	01	.4688473	04-	.2310502	03	.3433138-	02	.3866627-	02
.720000	05	.2691324	01	.4037134	04-	.2322475	03	.3354968-	02	.3937600-	02
.730000	05	.2332154	01	.3462252	04-	.2346696	03	.3248762-	02	.4016777-	02
.740000	05	.2025352	01	.2947748	04-	.2393693	03	.3105372-	02	.4122255-	02
.750000	05	.1763817	01	.2517672	04-	.2440690	03	.2917534-	02	.4192221-	02
.760000	05	.1540175	01	.2156913	04-	.2487686	03	.2681516-	02	.4226679-	02
.770000	05	.1348362	01	.1853280	04-	.2534683	03	.2392879-	02	.4226543-	02
.780000	05	.1182656	01	.1610765	04-	.2557904	03	.2050442-	02	.4142672-	02
.790000	05	.1036222	01	.1448177	04-	.2492811	03	.1671577-	02	.3834919-	02
.800000	05	.9047879	00	.1298395	04-	.2427718	03	.1271581-	02	.3504777-	02
.810000	05	.7871515	00	.1160705	04-	.2362624	03	.8687348-	01	.3016215-	02
.820000	05	.6821801	00	.1034417	04-	.2297531	03	.4844379-	01	.2515069-	02
.830000	05	.5885363	00	.9242208	05-	.2218481	03	.1292041-	01	.1963297-	02
.840000	05	.5044974	00	.8335795	05-	.2108483	03	.1729589	01	.1283284-	02
.850000	05	.4289239	00	.7477178	05-	.1998484	03	.3981568	01	.6006558-	01
.860000	05	.3613547	00	.6666197	05-	.1888486	03	.5311323	01	.7434985	00
.870000	05	.3013302	00	.5902689	05-	.1778488	03	.5566907	01	.7243627	01

# FIGURE 8

## 5 FEBRUARY 1964, 0320 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
255.599	54.174	2.019	241.071	1.181	40274.800
283.522	84.855	5.367	272.275	2.950	46145.350
302.187	93.193	10.253	276.259	5.853	51233.450
276.547	79.551	12.723	252.103	7.355	56114.750
282.907	128.625	14.157	255.864	16.893	61332.650
284.264	76.663	41.175	247.501	24.542	66324.290
220.698	20.179	27.001	190.476	14.434	71987.290



### WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
45000.000	- 13.341	76.644
50000.000	- 42.418	79.751
55000.000	- 18.336	78.995
60000.000	- 23.710	113.539
65000.000	- 21.500	87.850
70000.000	3.302	34.614

### LEGEND

- 5 m/sec or less
- 10 m/sec
- 50 m/sec
- DIRECTION OF NORTH WIND ↓

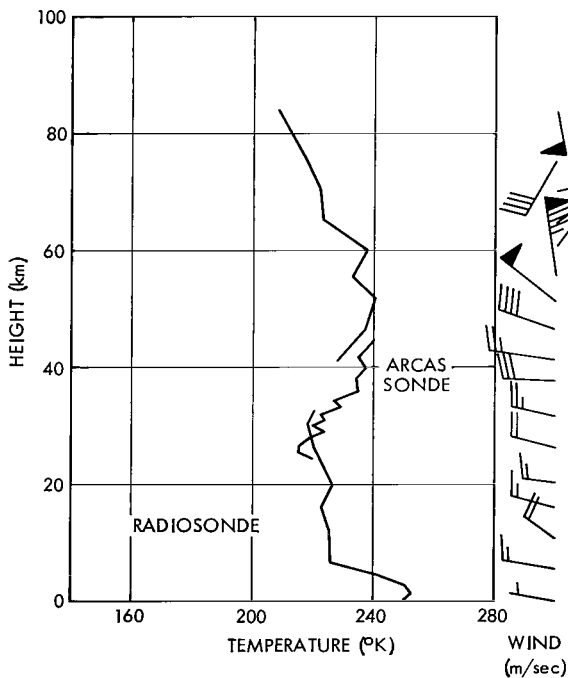


HEIGHT		PRESSURE		DENSITY		TEMPERATURE		PRESSURE		DENSITY	
meters		nt/sq meter		kg/cu meter		degrees Kelvin		dev. from std atmosphere (%)		dev. from std atmosphere (%)	
.270000	05	.1738317	04	.2708642	01-	.2235813	03	.7534859-	01	.7548558-	01
.280000	05	.1494764	04	.2315494	01-	.2248988	03	.7513096-	01	.7660934-	01
.290000	05	.1286529	04	.1981318	01-	.2262162	03	.7471880-	01	.7751295-	01
.300000	05	.1108321	04	.1696984	01-	.2275337	03	.7410778-	01	.7822685-	01
.310000	05	.9556636	03	.1454822	01-	.2288512	03	.7330487-	01	.7875981-	01
.320000	05	.8247723	03	.1248378	01-	.2301687	03	.7231289-	01	.7902790-	01
.330000	05	.7124399	03	.1072214	01-	.2314862	03	.7150736-	01	.7352146-	01
.340000	05	.6159460	03	.9217455	02-	.2328036	03	.7154831-	01	.6775737-	01
.350000	05	.5329832	03	.7931057	02-	.2341211	03	.7241603-	01	.6289933-	01
.360000	05	.4615898	03	.6830252	02-	.2354386	03	.7408325-	01	.5892160-	01
.370000	05	.4000985	03	.5887405	02-	.2367561	03	.7651379-	01	.5582454-	01
.380000	05	.3470895	03	.5079119	02-	.2380736	03	.7967522-	01	.5356850-	01
.390000	05	.3013332	03	.4385570	02-	.2393910	03	.8353422-	01	.5211699-	01
.400000	05	.2618580	03	.3789942	02-	.2407085	03	.8805698-	01	.5149475-	01
.410000	05	.2279127	03	.3241852	02-	.2449253	03	.9246201-	01	.6207264-	01
.420000	05	.1989068	03	.2769173	02-	.2502406	03	.9574246-	01	.7533962-	01
.430000	05	.1740970	03	.2373360	02-	.2555559	03	.9771372-	01	.8678288-	01
.440000	05	.1528065	03	.2040675	02-	.2608712	03	.9846545-	01	.9660684-	01
.450000	05	.1344783	03	.1760047	02-	.2661865	03	.9807242-	01	.1048939-	02
.460000	05	.1186525	03	.1522517	02-	.2715019	03	.9660078-	01	.1117690-	02
.470000	05	.1048563	03	.1338380	02-	.2729438	03	.9490378-	01	.1056597-	02
.480000	05	.9271453	02	.1180017	02-	.2737269	03	.9366407-	01	.1038068-	02
.490000	05	.8201074	02	.1040808	02-	.2745101	03	.9216586-	01	.1049124-	02
.500000	05	.7257077	02	.9183839	03-	.2752933	03	.9035256-	01	.1056734-	02
.510000	05	.6424210	02	.8106782	03-	.2760764	03	.8822132-	01	.1060995-	02
.520000	05	.5683559	02	.7267191	03-	.2724658	03	.8666000-	01	.9270104-	01
.530000	05	.5018730	02	.6535826	03-	.2675170	03	.8673977-	01	.7983667-	01
.540000	05	.4421561	02	.5866667	03-	.2625683	03	.8818188-	01	.7080357-	01
.550000	05	.3886225	02	.5255418	03-	.2576196	03	.9097539-	01	.6278757-	01
.560000	05	.3407304	02	.4698010	03-	.2526708	03	.9517861-	01	.5590408-	01
.570000	05	.2983788	02	.4112922	03-	.2527410	03	.9963323-	01	.6780861-	01
.580000	05	.2613533	02	.3592308	03-	.2534618	03	.1030284-	02	.8092200-	01
.590000	05	.2290176	02	.3138928	03-	.2541826	03	.1051971-	02	.9263800-	01
.600000	05	.2007660	02	.2743929	03-	.2549033	03	.1061414-	02	.1030568-	02
.610000	05	.1760721	02	.2399644	03-	.2556241	03	.1058565-	02	.1121636-	02
.620000	05	.1544151	02	.2111743	03-	.2547457	03	.1046165-	02	.1175700-	02
.630000	05	.1353383	02	.1863106	03-	.2530703	03	.1022574-	02	.1233265-	02
.640000	05	.1185192	02	.1642444	03-	.2513948	03	.9874038-	01	.1280753-	02
.650000	05	.1037026	02	.1446757	03-	.2497194	03	.9400737-	01	.1318587-	02
.660000	05	.9066053	01	.1273350	03-	.2480439	03	.8798359-	01	.1345407-	02
.670000	05	.7906487	01	.1144385	03-	.2406964	03	.8203390-	01	.1172593-	02
.680000	05	.6860677	01	.1036371	03-	.2306268	03	.7846427-	01	.9082258-	01
.690000	05	.5915876	01	.9344500	04-	.2205572	03	.7839334-	01	.6554998-	01
.700000	05	.5066226	01	.8385256	04-	.2104875	03	.8228352-	01	.4206807-	01
.710000	05	.4305965	01	.7485006	04-	.2004179	03	.9061309-	01	.2082541-	01

# FIGURE 9

## 13 FEBRUARY 1964, 0430 GMT, CHURCHILL

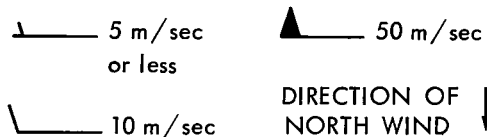
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
279.215	22.969	3.148	227.953	1.030	41147.750
287.475	40.857	3.781	236.098	.944	46667.350
307.423	49.038	9.829	240.805	2.285	51399.150
356.732	86.024	10.343	232.928	2.317	55976.150
37.727	22.807	8.424	237.015	1.790	60395.850
56.236	23.500	8.017	223.601	1.550	65189.250
81.120	44.137	14.320	221.973	2.523	70305.350
211.622	38.388	18.813	218.244	2.898	75152.350
168.732	49.314	4.959	208.582	.713	83928.550



### WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
45000.000	- 9.674	34.048
50000.000	- 24.616	38.952
55000.000	- 73.923	12.164
60000.000	- 24.115	- 12.266
65000.000	- 13.257	- 19.316
70000.000	- 7.186	- 42.171
75000.000	31.447	18.124
80000.000	41.347	3.687

### LEGEND

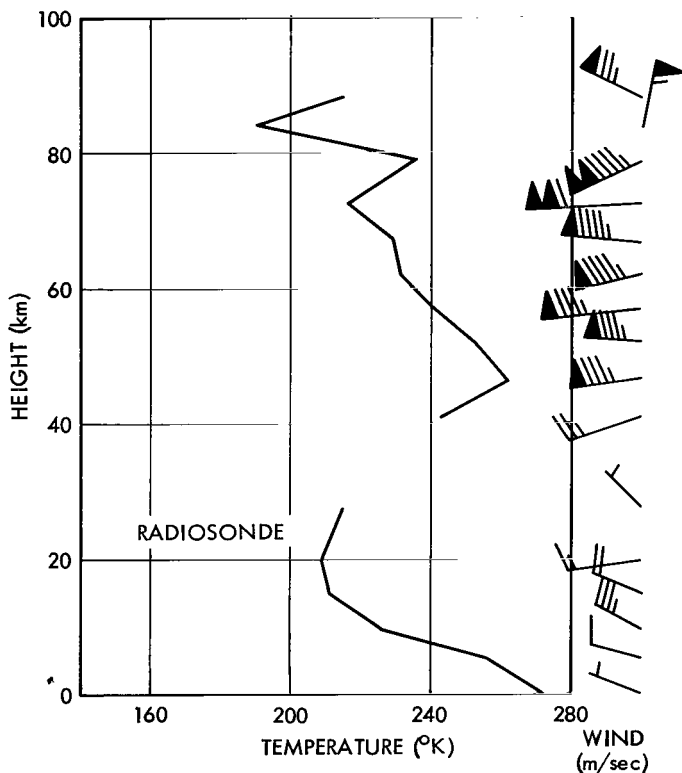


HEIGHT meters		PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)					
.3200000	05	.8288728	03	.1316459	01-	.2193506	03	.6770077-	01	.2880209-	01
.3300000	05	.7105477	03	.1123711	01-	.2202909	03	.7397340-	01	.2902326-	01
.3400000	05	.6095426	03	.9598774	02-	.2212312	03	.8120050-	01	.2919122-	01
.3500000	05	.5232611	03	.8205179	02-	.2221716	03	.8933613-	01	.3051024-	01
.3600000	05	.4495037	03	.7018893	02-	.2231119	03	.9832722-	01	.3293044-	01
.3700000	05	.3864080	03	.6008345	02-	.2240523	03	.1081136-	02	.3642912-	01
.3800000	05	.3323947	03	.5146879	02-	.2249926	03	.1186391-	02	.4094221-	01
.3900000	05	.2861247	03	.4411984	02-	.2259330	03	.1298466-	02	.4640802-	01
.4000000	05	.2464604	03	.3784617	02-	.2268733	03	.1416806-	02	.5282757-	01
.4100000	05	.2124356	03	.3248671	02-	.2278136	03	.1540913-	02	.6009973-	01
.4200000	05	.1832555	03	.2785358	02-	.2292103	03	.1668954-	02	.6993510-	01
.4300000	05	.1582368	03	.2389704	02-	.2306861	03	.1799120-	02	.8049379-	01
.4400000	05	.1367679	03	.2052349	02-	.2321619	03	.1930908-	02	.9143858-	01
.4500000	05	.1183264	03	.1764399	02-	.2336377	03	.2064013-	02	.1026807-	02
.4600000	05	.1024695	03	.1518361	02-	.2351135	03	.2198150-	02	.1141931-	02
.4700000	05	.8881717	02	.1308742	02-	.2364292	03	.2333501-	02	.1254650-	02
.4800000	05	.7704091	02	.1130460	02-	.2377423	03	.2468825-	02	.1411442-	02
.4900000	05	.6686877	02	.9771062	03-	.2384184	03	.2597829-	02	.1596952-	02
.5000000	05	.5807649	02	.8451054	03-	.2394129	03	.2720329-	02	.1770323-	02
.5100000	05	.5047196	02	.7314090	03-	.2404075	03	.2836589-	02	.1935063-	02
.5200000	05	.4386957	02	.6374201	03-	.2397705	03	.2950222-	02	.2041896-	02
.5300000	05	.3810615	02	.5576808	03-	.2380497	03	.3065809-	02	.2148546-	02
.5400000	05	.3306758	02	.4874655	03-	.2363288	03	.3180776-	02	.2279242-	02
.5500000	05	.2866678	02	.4256908	03-	.2346080	03	.3294572-	02	.2408545-	02
.5600000	05	.2482713	02	.3712971	03-	.2329502	03	.3407069-	02	.2538541-	02
.5700000	05	.2149793	02	.3202369	03-	.2338748	03	.3512938-	02	.2741849-	02
.5800000	05	.1862655	02	.2763718	03-	.2347993	03	.3607317-	02	.2929136-	02
.5900000	05	.1614850	02	.2386639	03-	.2357239	03	.3690561-	02	.3101002-	02
.6000000	05	.1400857	02	.2062283	03-	.2366485	03	.3763047-	02	.3258750-	02
.6100000	05	.1215127	02	.1798928	03-	.2355239	03	.3829243-	02	.3344205-	02
.6200000	05	.1052747	02	.1577290	03-	.2352556	03	.3895596-	02	.3409011-	02
.6300000	05	.9105249	01	.1380821	03-	.2297273	03	.3960194-	02	.3502631-	02
.6400000	05	.7861525	01	.1206910	03-	.2269290	03	.4021836-	02	.3592875-	02
.6500000	05	.6775643	01	.1053191	03-	.2241308	03	.4080495-	02	.3680220-	02
.6600000	05	.5833075	01	.9098777	04-	.2233432	03	.4132110-	02	.3815824-	02
.6700000	05	.5019994	01	.7841656	04-	.2230250	03	.4171642-	02	.3951206-	02
.6800000	05	.4319528	01	.6757110	04-	.2227068	03	.4197949-	02	.4072191-	02
.6900000	05	.3716172	01	.5821587	04-	.2223886	03	.4210750-	02	.4178413-	02
.7000000	05	.3196550	01	.5014746	04-	.2220704	03	.4209641-	02	.4271153-	02
.7100000	05	.2748836	01	.4324674	04-	.2214387	03	.4194668-	02	.4342541-	02
.7200000	05	.2362810	01	.3730311	04-	.2206692	03	.4166090-	02	.4398343-	02
.7300000	05	.2030015	01	.3216124	04-	.2198997	03	.4123410-	02	.4442118-	02
.7400000	05	.1743248	01	.2771501	04-	.2191302	03	.4065699-	02	.4473686-	02
.7500000	05	.1496260	01	.2387211	04-	.2183607	03	.3991888-	02	.4493170-	02
.7600000	05	.1283308	01	.2057674	04-	.2173103	03	.3901125-	02	.4492308-	02
.7700000	05	.1100222	01	.1772817	04-	.2162094	03	.3792824-	02	.4477204-	02
.7800000	05	.9424130	00	.1526307	04-	.2151084	03	.3665302-	02	.4449791-	02
.7900000	05	.8066370	00	.1313129	04-	.2140075	03	.3516822-	02	.4409840-	02
.8000000	05	.6899022	00	.1128903	04-	.2129066	03	.3344567-	02	.4352661-	02
.8100000	05	.5896119	00	.9698104	05-	.2118057	03	.3160272-	02	.4164799-	02
.8200000	05	.5035127	00	.8325192	05-	.2107047	03	.2976626-	02	.3975983-	02
.8300000	05	.4296520	00	.7141275	05-	.2096038	03	.2793976-	02	.3790195-	02

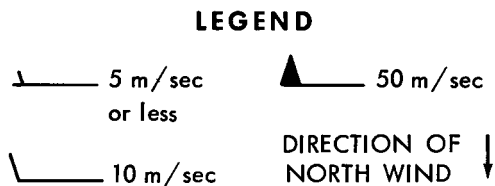
# FIGURE 10

## 13 FEBRUARY 1964, 0430 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
259.256	24.818	4.745	241.892	2.430	41011.350
263.988	93.984	5.939	262.894	3.042	46898.500
274.867	82.674	14.986	252.582	7.331	52008.350
265.952	85.155	13.085	240.298	6.227	56905.040
256.394	93.314	32.220	230.653	16.270	62123.150
283.379	94.565	41.826	229.567	18.728	67149.040
266.762	108.278	12.235	216.561	5.582	72841.490
262.482	145.780	57.302	235.779	29.678	79061.900
11.100	56.971	53.450	190.564	32.676	84077.950
297.828	74.221	56.264	215.383	29.735	87987.100



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
45000.000	8.162	71.189
50000.000	- .389	86.735
55000.000	.944	83.944
60000.000	15.466	88.355
65000.000	- 3.138	91.442
70000.000	- 7.859	100.065
75000.000	10.612	120.744
80000.000	19.325	107.551
85000.000	7.430	- 25.159

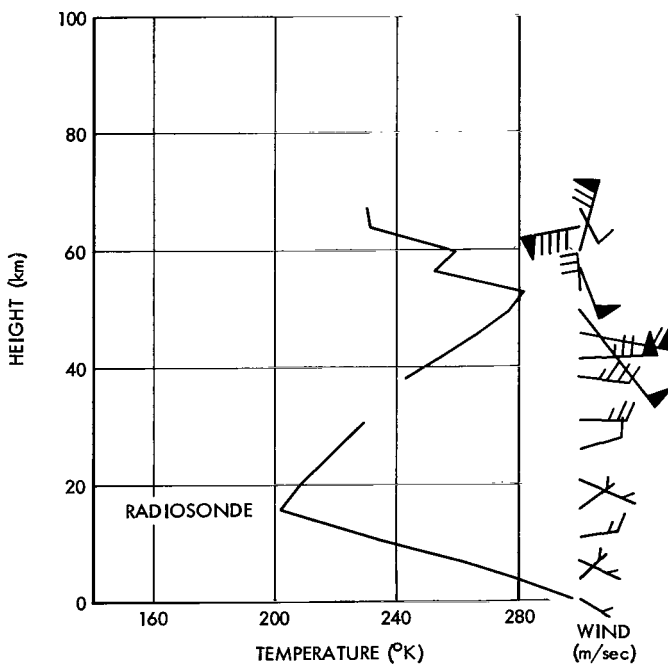


HEIGHT meters		PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)					
.2700000	05	.1745737	04	.2827687	01-	.2150828	03	.7140176-	01	.3485330-	01
.2800000	05	.1492567	04	.2396294	01-	.2169962	03	.7649020-	01	.4438757-	01
.2900000	05	.1277931	04	.2033766	01-	.2189095	03	.8090256-	01	.5309328-	01
.3000000	05	.1095692	04	.1728632	01-	.2208229	03	.8465748-	01	.6103609-	01
.3100000	05	.9407342	03	.1471411	01-	.2227363	03	.8778177-	01	.6825536-	01
.3200000	05	.8087829	03	.1254250	01-	.2246497	03	.9029749-	01	.7469531-	01
.3300000	05	.6962644	03	.1070639	01-	.2265631	03	.9258809-	01	.7488170-	01
.3400000	05	.6001830	03	.9151669	02-	.2284765	03	.9530890-	01	.7441087-	01
.3500000	05	.5180250	03	.7833314	02-	.2303898	03	.9844870-	01	.7444826-	01
.3600000	05	.4476788	03	.6713816	02-	.2323032	03	.1019878-	02	.7496423-	01
.3700000	05	.3873662	03	.5761853	02-	.2342166	03	.1059018-	02	.7595959-	01
.3800000	05	.3355891	03	.4951250	02-	.2361300	03	.1101689-	02	.7739535-	01
.3900000	05	.2910825	03	.4260083	02-	.2380434	03	.1147691-	02	.7923922-	01
.4000000	05	.2527773	03	.3669976	02-	.2399568	03	.1196814-	02	.8151852-	01
.4100000	05	.2197686	03	.3165494	02-	.2418702	03	.1248916-	02	.8416441-	01
.4200000	05	.1913781	03	.2716706	02-	.2454189	03	.1299688-	02	.9285907-	01
.4300000	05	.1669944	03	.2336602	02-	.2489863	03	.1345239-	02	.1009265-	02
.4400000	05	.1460065	03	.2014079	02-	.2525538	03	.1385844-	02	.1083807-	02
.4500000	05	.1279023	03	.1739766	02-	.2561212	03	.14221770-	02	.1152203-	02
.4600000	05	.1122528	03	.1505922	02-	.2596887	03	.1453264-	02	.1214503-	02
.4700000	05	.9868402	02	.1308768	02-	.2626892	03	.1481816-	02	.1254472-	02
.4800000	05	.8677985	02	.1159802	02-	.2660712	03	.1516789-	02	.1191596-	02
.4900000	05	.7623851	02	.1026868	02-	.2586532	03	.1560627-	02	.1169004-	02
.5000000	05	.6691244	02	.9083409	03-	.2566351	03	.1612776-	02	.1154533-	02
.5100000	05	.5866917	02	.8027502	03-	.2546171	03	.1673170-	02	.1148414-	02
.5200000	05	.5138976	02	.7087659	03-	.2525991	03	.1741739-	02	.1141173-	02
.5300000	05	.4496178	02	.6263219	03-	.2500945	03	.1818287-	02	.1182164-	02
.5400000	05	.3928657	02	.5528109	03-	.2475857	03	.1898290-	02	.1244262-	02
.5500000	05	.3428200	02	.4873285	03-	.2450770	03	.1981119-	02	.1309344-	02
.5600000	05	.2987431	02	.4290641	03-	.2425682	03	.2066773-	02	.1377674-	02
.5700000	05	.2599771	02	.3771907	03-	.2401222	03	.2155116-	02	.1450993-	02
.5800000	05	.2259692	02	.3303931	03-	.2382739	03	.2244675-	02	.1547022-	02
.5900000	05	.1962044	02	.2891161	03-	.2364257	03	.2334029-	02	.1642595-	02
.6000000	05	.1701790	02	.2527422	03-	.2345775	03	.2423224-	02	.1738292-	02
.6100000	05	.1474461	02	.2207195	03-	.2327292	03	.2512269-	02	.1833672-	02
.6200000	05	.1276098	02	.1925547	03-	.2308810	03	.2600484-	02	.1933755-	02
.6300000	05	.1103687	02	.1668405	03-	.2304638	03	.2678885-	02	.2149419-	02
.6400000	05	.9544172	01	.1444114	03-	.2302475	03	.2742295-	02	.2333630-	02
.6500000	05	.8252614	01	.1249864	03-	.2300313	03	.2790147-	02	.2500065-	02
.6600000	05	.7135211	01	.1081649	03-	.2298150	03	.2822203-	02	.2648341-	02
.6700000	05	.6168523	01	.9359868	04-	.2295988	03	.2838166-	02	.2780107-	02
.6800000	05	.5329337	01	.8156737	04-	.2276223	03	.2844560-	02	.2844340-	02
.6900000	05	.4598196	01	.7109056	04-	.2253376	03	.2836685-	02	.2890944-	02
.7000000	05	.3961584	01	.6187556	04-	.2230529	03	.2823828-	02	.2931335-	02
.7100000	05	.3408036	01	.5378063	04-	.2207682	03	.2802488-	02	.2964518-	02
.7200000	05	.2927386	01	.4667879	04-	.2184834	03	.2772119-	02	.2990436-	02
.7300000	05	.2511385	01	.4030978	04-	.2170506	03	.2729917-	02	.3033944-	02
.7400000	05	.2155851	01	.3411754	04-	.2201400	03	.2661134-	02	.3197036-	02
.7500000	05	.1854677	01	.2894509	04-	.2232295	03	.2552693-	02	.3322930-	02
.7600000	05	.1598955	01	.2461351	04-	.2263189	03	.2402209-	02	.3411802-	02
.7700000	05	.1381330	01	.2097714	04-	.2294084	03	.2206883-	02	.3465064-	02
.7800000	05	.1195716	01	.1791709	04-	.2324978	03	.1962654-	02	.3484696-	02
.7900000	05	.1037063	01	.1533598	04-	.2355872	03	.1664822-	02	.3471274-	02
.8000000	05	.8980579	00	.1376323	04-	.2273224	03	.1336504-	02	.3114942-	02
.8100000	05	.7733896	00	.1234202	04-	.2183083	03	.1028378-	02	.2573994-	02
.8200000	05	.6618750	00	.1101734	04-	.2092942	03	.7676695-	01	.2027971-	02
.8300000	05	.5625978	00	.9786295	05-	.2002801	03	.5642388-	01	.1490177-	02
.8400000	05	.4746704	00	.8645943	05-	.1912661	03	.4284883-	01	.9589630-	01
.8500000	05	.3998369	00	.7091865	05-	.1964177	03	.3069834-	01	.1085022-	02
.8600000	05	.3384861	00	.5815702	05-	.2027668	03	.1353381-	01	.1210967-	02
.8700000	05	.2880389	00	.4798684	05-	.2091159	03	.9104826	00	.1281460-	02

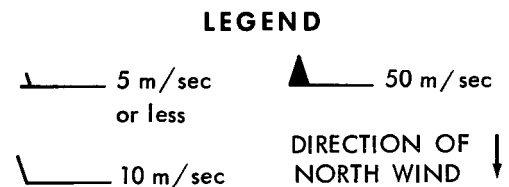
# FIGURE 11

## 13 FEBRUARY 1964, 0455 GMT, ASCENSION ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
99.592	36.615	10.176	243.788	2.373	38000.750
78.011	74.176	21.528	257.958	4.923	41791.150
101.024	62.160	20.293	266.732	6.049	45494.150
153.709	49.365	23.493	276.840	5.494	49103.100
356.133	31.662	31.785	281.411	7.119	52607.250
159.664	50.525	28.308	253.744	4.858	56044.500
15.224	69.761	12.810	259.431	2.546	59940.100
263.676	90.252	37.714	230.876	6.188	63713.600
158.254	10.663	39.994	230.037	6.853	66862.150



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
40000.000	- 5.244	- 55.331
45000.000	8.244	- 62.554
50000.000	24.845	- 15.722
55000.000	23.380	- 11.574
60000.000	- 66.087	- 16.604
65000.000	9.926	51.439

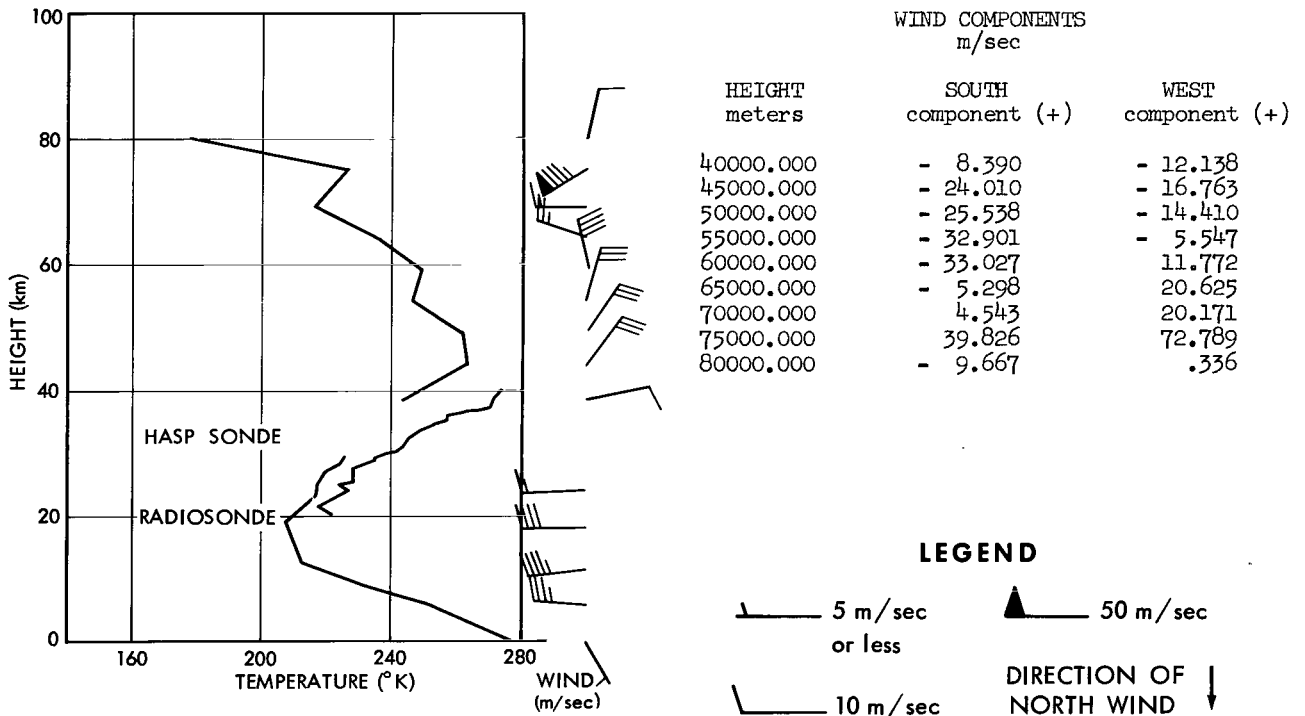


HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.300000	05	.1187096	04	.1808410	01-	.2286900	03	.8298840-	00	.1770241-	01
.310000	05	.1024824	04	.1548429	01-	.2305770	03	.6240826-	00	.1948488-	01
.320000	05	.8858348	03	.1327563	01-	.2324641	03	.3631026-	00	.2061030-	01
.330000	05	.7666330	03	.1139669	01-	.2343512	03	.8796830-	01-	.1523497-	01
.340000	05	.6642708	03	.9796099	02-	.2362382	03	.1294466	00	.9234010-	00
.350000	05	.5762584	03	.8430822	02-	.2381253	03	.2898409	00	.3849241-	00
.360000	05	.5004905	03	.7264745	02-	.2400123	03	.3948684	00	.9433332	01-
.370000	05	.4351838	03	.6267525	02-	.2418994	03	.4468160	00	.5136052	00
.380000	05	.3788265	03	.5413634	02-	.2437865	03	.4477078	00	.8764317	00
.390000	05	.3303048	03	.4648967	02-	.2475236	03	.4512656	00	.4812917	00
.400000	05	.2886024	03	.4001576	02-	.2512621	03	.5082631	00	.1470742	00
.410000	05	.2526787	03	.3452118	02-	.2550006	03	.6155027	00	.1238858-	00
.420000	05	.2216481	03	.2987723	02-	.2584532	03	.7642539	00	.2363214-	00
.430000	05	.1947221	03	.2600927	02-	.2608226	03	.9179188	00	.7801336	01-
.440000	05	.1712744	03	.2267138	02-	.2631920	03	.1049262	01	.3647017	00
.450000	05	.1508296	03	.1978699	02-	.2655614	03	.1159333	01	.6305716	00
.460000	05	.1329873	03	.1727794	02-	.2681490	03	.1254220	01	.7989333	00
.470000	05	.1174078	03	.1509616	02-	.2709497	03	.1343802	01	.8764249	00
.480000	05	.1037904	03	.1320871	02-	.2737505	03	.1460836	01	.3167713	00
.490000	05	.9187105	02	.1157341	02-	.2765512	03	.1698485	01	.4694758-	00
.500000	05	.8139990	02	.1020050	02-	.2780099	03	.2031732	01	.6669990-	00
.510000	05	.7216821	02	.9001414	03-	.2793144	03	.2427280	01	.7452237-	00
.520000	05	.6402179	02	.7948207	03-	.2806188	03	.2882115	01	.7677160-	00
.530000	05	.5678402	02	.7109672	03-	.2782497	03	.3330096	01	.9536422	01-
.540000	05	.5025137	02	.6479175	03-	.2702006	03	.3628815	01	.2620889	01
.550000	05	.4430792	02	.5888260	03-	.2621516	03	.3640388	01	.5006886	01
.560000	05	.3891594	02	.5335518	03-	.2541026	03	.3342616	01	.7220747	01
.570000	05	.3412089	02	.4659094	03-	.2551391	03	.2960780	01	.5598112	01
.580000	05	.2993706	02	.4064552	03-	.2565988	03	.2744794	01	.3989971	01
.590000	05	.2628680	02	.3548769	03-	.2580585	03	.2706090	01	.2583379	01
.600000	05	.2309638	02	.3106992	03-	.2589775	03	.2830647	01	.1562238	01
.610000	05	.2025962	02	.2807413	03-	.2514103	03	.2884042	01	.3870546	01
.620000	05	.1770098	02	.2528977	03-	.2438432	03	.2639964	01	.5677867	01
.630000	05	.1540046	02	.2270765	03-	.2362760	03	.2156208	01	.6849472	01
.640000	05	.1334759	02	.2014772	03-	.2307997	03	.1499529	01	.6958213	01
.650000	05	.1154834	02	.1745196	03-	.2305331	03	.8914529	00	.4722260	01
.660000	05	.9990393	01	.1511506	03-	.2302665	03	.5002135	00	.2732710	01

# FIGURE 12

## 7 MARCH 1964, 0245 GMT, WALLOPS ISLAND

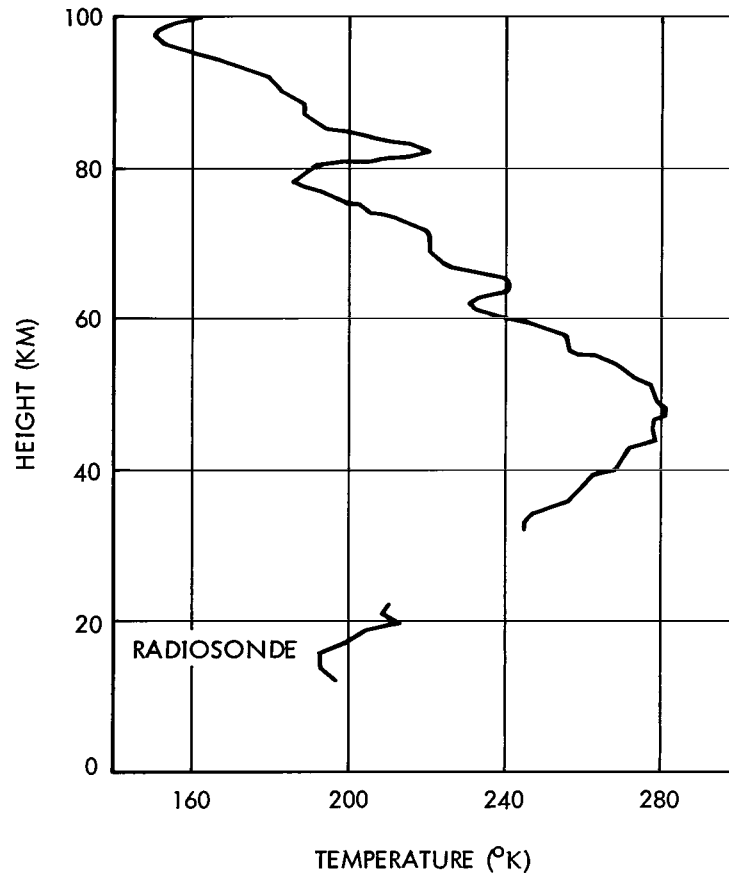
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
76.411	10.580	4.060	243.206	2.569	38423.600
35.408	29.380	7.327	263.335	4.875	44153.800
32.500	28.837	12.541	260.826	8.512	49126.450
17.209	32.406	9.408	246.471	6.184	53885.250
347.352	40.871	6.482	249.057	3.693	58998.850
286.303	23.599	7.503	235.871	3.929	63857.800
271.262	12.973	10.040	216.050	5.941	69315.700
241.069	87.103	17.315	226.466	9.562	75327.300
11.994	11.834	38.404	177.666	19.539	80172.090





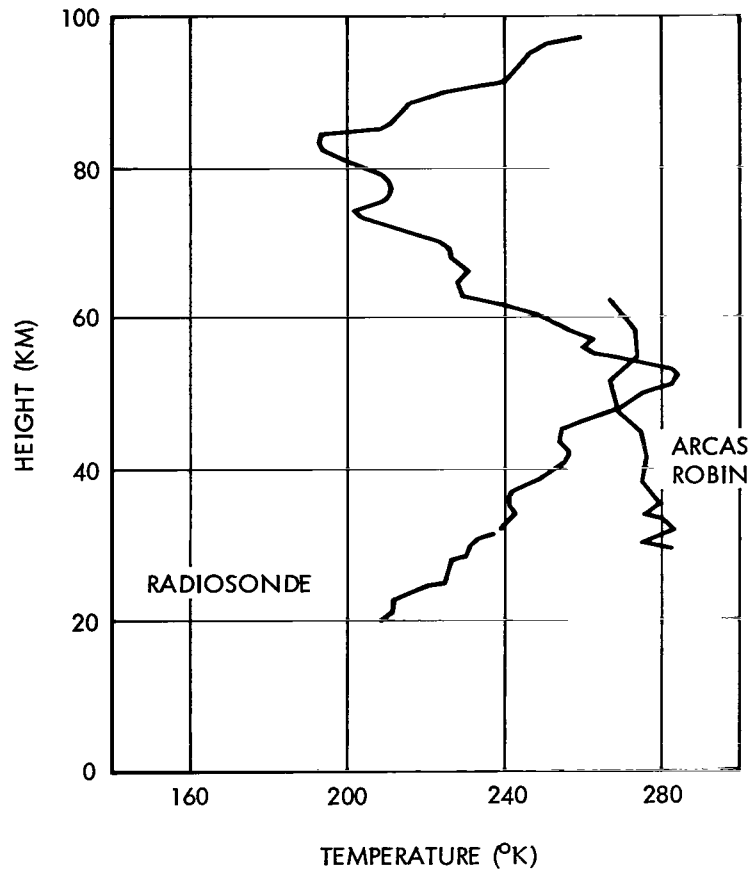
HEIGHT meters		PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)					
.330000	05	.7376281	03	.1041090	01-	.2468353	03	.3868060-	01	.1004146-	02
.340000	05	.6431499	03	.9102108	02-	.2461661	03	.3054242-	01	.7942344-	01
.350000	05	.5605874	03	.7955276	02-	.2454970	03	.2437474-	01	.6003771-	01
.360000	05	.4884617	03	.6950688	02-	.2448279	03	.2018020-	01	.4232778-	01
.370000	05	.4254735	03	.6070974	02-	.2441587	03	.1794463-	01	.2638523-	01
.380000	05	.3704839	03	.5300869	02-	.2434896	03	.1764363-	01	.1224806-	01
.390000	05	.3227133	03	.4584582	02-	.2428310	03	.1857435-	01	.9103076-	00
.400000	05	.2815268	03	.3942991	02-	.2487438	03	.1955862-	01	.1319146-	01
.410000	05	.2460778	03	.3398507	02-	.2522566	03	.2012954-	01	.1674954-	01
.420000	05	.2155020	03	.2935357	02-	.2557694	03	.2029828-	01	.1984860-	01
.430000	05	.1890750	03	.2540502	02-	.2592822	03	.2008812-	01	.2247023-	01
.440000	05	.1661876	03	.2203128	02-	.2627950	03	.1951884-	01	.2468980-	01
.450000	05	.1462080	03	.1937426	02-	.2629083	03	.1940268-	01	.1468445-	01
.460000	05	.1286221	03	.1707669	02-	.2624037	03	.2069370-	01	.3751697-	00
.470000	05	.1131280	03	.1504854	02-	.2618992	03	.2350400-	01	.5582178	00
.480000	05	.9947970	02	.1325855	02-	.2613946	03	.2753089-	01	.6952825	00
.490000	05	.8745973	02	.1167908	02-	.2608901	03	.3184717-	01	.4393207	00
.500000	05	.7683422	02	.1036744	02-	.2581912	03	.3691170-	01	.9586097	00
.510000	05	.6740508	02	.9202657	03-	.2551746	03	.4332961-	01	.1473792	01
.520000	05	.5904350	02	.8157504	03-	.2521581	03	.5117927-	01	.1845339	01
.530000	05	.5163896	02	.7220869	03-	.2491416	03	.6032385-	01	.1660872	01
.540000	05	.4509626	02	.6372799	03-	.2465292	03	.7002112-	01	.9360594	00
.550000	05	.3936156	02	.5551010	03-	.2470350	03	.7929616-	01	.1007379-	01
.560000	05	.3436715	02	.4836766	03-	.2475407	03	.8736844-	01	.2802015-	01
.570000	05	.3001597	02	.4215776	03-	.2480464	03	.9425934-	01	.4449659-	01
.580000	05	.2622405	02	.3675702	03-	.2485522	03	.9998354-	01	.5958601-	01
.590000	05	.2291837	02	.3205884	03-	.2490542	03	.1045484-	02	.7328304-	01
.600000	05	.2001813	02	.2831041	03-	.2463403	03	.1087448-	02	.7458133-	01
.610000	05	.1745946	02	.2496690	03-	.2436264	03	.1133596-	02	.7625790-	01
.620000	05	.15220517	02	.2198823	03-	.2409124	03	.1183208-	02	.8118201-	01
.630000	05	.1322180	02	.1933792	03-	.2381985	03	.1229552-	02	.9006583-	01
.640000	05	.1147880	02	.1699154	03-	.2353541	03	.1271142-	02	.9796969-	01
.650000	05	.9946488	01	.1495408	03-	.2317225	03	.1310302-	02	.1026654-	02
.660000	05	.8599630	01	.1313499	03-	.2280910	03	.1349043-	02	.1072527-	02
.670000	05	.7418148	01	.1151372	03-	.2244595	03	.1387315-	02	.1118695-	02
.680000	05	.6383877	01	.1007137	03-	.2208279	03	.1425086-	02	.1164687-	02
.690000	05	.5480407	01	.8790597	04-	.2171964	03	.1462329-	02	.1209403-	02
.700000	05	.4699241	01	.7536241	04-	.2172357	03	.1487606-	02	.1390596-	02
.710000	05	.4032017	01	.6415036	04-	.2189684	03	.1484688-	02	.1607969-	02
.720000	05	.3463869	01	.5467832	04-	.2207011	03	.1447512-	02	.1789179-	02
.730000	05	.2979454	01	.4666531	04-	.2224338	03	.1374925-	02	.1935624-	02
.740000	05	.2565900	01	.3987744	04-	.2241665	03	.1265258-	02	.2048524-	02
.750000	05	.2212395	01	.3411977	04-	.2258992	03	.1116307-	02	.2129233-	02
.760000	05	.1904823	01	.3020661	04-	.2196902	03	.9488081-	01	.1914717-	02
.770000	05	.1630775	01	.2710347	04-	.2096174	03	.7995746-	01	.1556551-	02
.780000	05	.1385583	01	.2419084	04-	.1995446	03	.6864050-	01	.1203332-	02
.790000	05	.1167423	01	.2146554	04-	.1894718	03	.6170782-	01	.8618371-	01
.800000	05	.9745018	00	.1892435	04-	.1793990	03	.5990560-	01	.5330923-	01

FIGURE 13  
15 APRIL 1964, 0122 GMT, ASCENSION ISLAND



HEIGHT meters		PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)				
.3200000	05	.8225967	03	.1170000	01-	.2453000	03	.7476001-	01	.1368499-	02
.3300000	05	.7212720	03	.1020000	01-	.2456000	03	.5999681-	01	.1186383-	02
.3400000	05	.6266133	03	.8789999	02-	.2484000	03	.5546879-	01	.1109897-	02
.3500000	05	.5466202	03	.7539999	02-	.2527000	03	.4868283-	01	.1091051-	02
.3600000	05	.4772927	03	.6469999	02-	.2570000	03	.4258439-	01	.1085575-	02
.3700000	05	.4186310	03	.5639999	02-	.2584000	03	.3373808-	01	.9550160-	01
.3800000	05	.3719683	03	.4979999	02-	.2602000	03	.1370759-	01	.7203815-	01
.3900000	05	.3253056	03	.4319999	02-	.2625000	03	.1069077-	01	.6628913-	01
.4000000	05	.2839758	03	.3679999	02-	.2686000	03	.1102988-	01	.7900999-	01
.4100000	05	.2519785	03	.3259999	02-	.2697000	03	.3367000	00	.5682216-	01
.4200000	05	.2213145	03	.2840000	02-	.2715000	03	.6125939	00	.5168968-	01
.4300000	05	.1973165	03	.2510000	02-	.2735000	03	.2262514	01	.3420682-	01
.4400000	05	.1719853	03	.2140000	02-	.2787000	03	.1468693	01	.5263618-	01
.4500000	05	.1533203	03	.1920000	02-	.2782000	03	.2829818	01	.2354677-	01
.4600000	05	.1373216	03	.1720000	02-	.2781000	03	.4554324	01	.3442065	00
.4700000	05	.1209230	03	.1500000	02-	.2802000	03	.4378072	01	.2338730	00
.4800000	05	.1070576	03	.1330000	02-	.2805000	03	.4654693	01	.1010109	01
.4900000	05	.9465861	02	.1180000	02-	.2792000	03	.4784232	01	.1479189	01
.5000000	05	.8425949	02	.1060000	02-	.2782000	03	.5616132	01	.3223295	01
.5100000	05	.7426035	02	.9319999	03-	.2777000	03	.5396625	01	.2767678	01
.5200000	05	.6559442	02	.8349998	03-	.2737000	03	.5409306	01	.4248606	01
.5300000	05	.5799506	02	.7459999	03-	.2710000	03	.5533842	01	.5027531	01
.5400000	05	.5052903	02	.6579999	03-	.2676000	03	.4201396	01	.4217803	01
.5500000	05	.4452954	02	.5889999	03-	.2632000	03	.4158780	01	.5037903	01
.5600000	05	.3932998	02	.5339999	03-	.2568000	03	.4442129	01	.7310804	01
.5700000	05	.3453039	02	.4689999	03-	.2567000	03	.4196471	01	.6298580	01
.5800000	05	.3013077	02	.4079999	03-	.2574000	03	.3409618	01	.4385194	01
.5900000	05	.2666440	02	.3740000	03-	.2481000	03	.4181409	01	.8111239	01
.6000000	05	.2386463	02	.3599999	03-	.2309000	03	.6251102	01	.1767781	02
.6100000	05	.2079823	02	.3260000	03-	.2225000	03	.5619265	01	.2061565	02
.6200000	05	.1786514	02	.2810000	03-	.2215000	03	.3591888	01	.1742091	02
.6300000	05	.1519871	02	.2350000	03-	.2254000	03	.8179386	00	.1057783	02
.6400000	05	.1281224	02	.1930000	03-	.2313000	03	.2571455-	01	.2457935	01
.6500000	05	.1099906	02	.1660000	03-	.2308000	03	.3907253-	01	.3900333-	00
.6600000	05	.9585850	01	.1510000	03-	.2214000	03	.3569363-	01	.2630333	01
.6700000	05	.8159305	01	.1320000	03-	.2154000	03	.5268101-	01	.1820426	01
.6800000	05	.6986072	01	.1150000	03-	.2120000	03	.6162103-	01	.8860404	00
.6900000	05	.5972825	01	.9859999	04-	.2111000	03	.6952151-	01	.1400003-	01
.7000000	05	.5026238	01	.8299999	04-	.2111000	03	.8952698-	01	.5180780-	01
.7100000	05	.4306300	01	.7109999	04-	.2109000	03	.9054229-	01	.6988306-	01
.7200000	05	.3666355	01	.6129999	04-	.2085000	03	.9475626-	01	.7948290-	01
.7300000	05	.3133067	01	.5359999	04-	.2037000	03	.9302404-	01	.7372204-	01
.7400000	05	.2653107	01	.4730000	04-	.1956000	03	.9683901-	01	.5684826-	01
.7500000	05	.2213145	01	.3990000	04-	.1931000	03	.1113294-	02	.7958480-	01
.7600000	05	.1866508	01	.3490000	04-	.1863000	03	.1130872-	02	.6584577-	01
.7700000	05	.1559867	01	.3040000	04-	.1787000	03	.1199620-	02	.5295946-	01
.7800000	05	.1295890	01	.2570000	04-	.1759000	03	.1289308-	02	.6545452-	01
.7900000	05	.1070575	01	.2090000	04-	.1785000	03	.1395471-	02	.1102597-	02
.8000000	05	.8992234	00	.1640000	04-	.1917000	03	.1318509-	02	.1795898-	02
.8100000	05	.7666014	00	.1270000	04-	.2098000	03	.1107124-	02	.2358604-	02
.8200000	05	.6559441	00	.1040000	04-	.2200000	03	.8503975-	01	.2474675-	02
.8300000	05	.5559526	00	.8959999	05-	.2161000	03	.6756899-	01	.2208695-	02
.8400000	05	.4746262	00	.8059999	05-	.2052000	03	.4293785-	01	.1571683-	02
.8500000	05	.4026323	00	.7179999	05-	.1953000	03	.2392150-	01	.9742301-	01
.8600000	05	.3399710	00	.6209999	05-	.1908000	03	.9206232-	00	.6150821-	01
.8700000	05	.2853090	00	.5249999	05-	.1893000	03	.4587247-	01-	.4614827-	01
.8800000	05	.2399796	00	.4409999	05-	.1895000	03	.1061059	01	.3690754-	01
.8900000	05	.1999830	00	.3729999	05-	.1867000	03	.1226450	01	.2099745-	01
.9000000	05	.1679877	00	.3190000	05-	.1834000	03	.2193515	01	.6309153	00
.9100000	05	.1399881	00	.2690000	05-	.1815000	03	.2196005	01	.3541183	01
.9200000	05	.1161234	00	.2260000	05-	.1790000	03	.1426726	01	.5755735	01
.9300000	05	.9599182	01-	.1930000	05-	.1736000	03	.1545541	01-	.9472479	01
.9400000	05	.7879329	01-	.1640000	05-	.1669000	03	.2342132-	01	.1240576	02
.9500000	05	.6439451	01-	.1400000	05-	.1605000	03	.5318891-	01	.1560694	02
.9600000	05	.5212889	01-	.1170000	05-	.1548000	03	.9314245-	01	.1607143	02
.9700000	05	.4172978	01-	.9619999	06-	.1511000	03	.1432839-	02	.1431966	02
.9800000	05	.3333049	01-	.7659999	06-	.1515000	03	.1944680-	02	.8745034	01
.9900000	05	.2679772	01-	.6030000	06-	.1548000	03	.2394574-	02	.2013195	01
.1000000	06	.2173148	01-	.4649999	06-	.1628000	03	.2774237-	02	.6513874-	01

FIGURE 14  
15 APRIL 1964, 1556 GMT, ASCENSION ISLAND

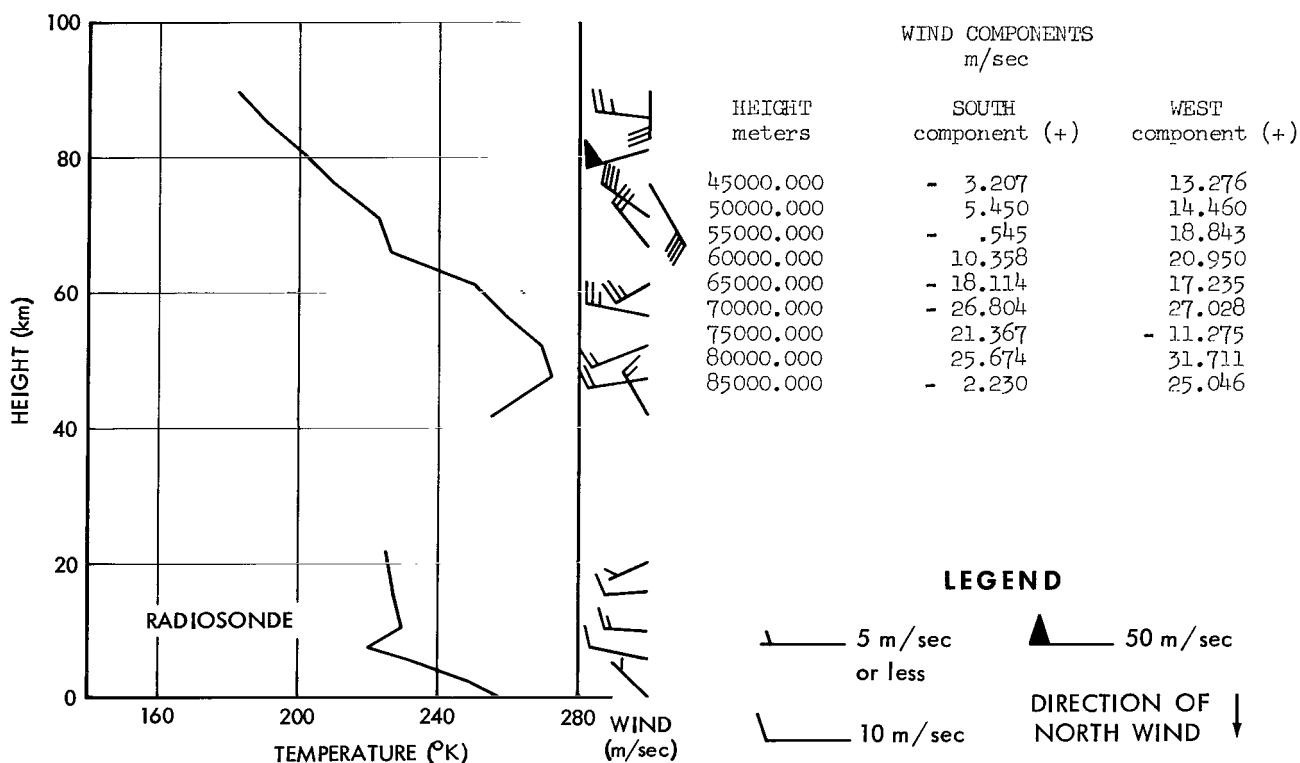


HEIGHT meters		PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)				
.320000	05	.8705926	03	.1269000	01-	.2390000	03	.2077516-	01	.6381411-	01
.330000	05	.7586021	03	.1093000	01-	.2417000	03	.1134605-	01	.5556036-	01
.340000	05	.6679432	03	.9595999	02-	.2425000	03	.6830070	00	.2947182-	01
.350000	05	.5892832	03	.8489999	02-	.2418000	03	.2556625	01	.3142996	00
.360000	05	.5172893	03	.7473999	02-	.2411000	03	.3764589	01	.2977450	01
.370000	05	.4532947	03	.6509999	02-	.2426000	03	.4627080	01	.4402211	01
.380000	05	.4012991	03	.5683999	02-	.2460000	03	.6406449	01	.5914356	01
.390000	05	.3533032	03	.4905999	02-	.2509000	03	.7445461	01	.6036698	01
.400000	05	.3093070	03	.4243999	02-	.2539000	03	.7718814	01	.6214178	01
.410000	05	.2719768	03	.3701000	02-	.2560000	03	.8299928	01	.7076727	01
.420000	05	.2399796	03	.3258000	02-	.2566000	03	.9097992	01	.8788563	01
.430000	05	.2106487	03	.2877000	02-	.2551000	03	.9172145	01	.1070068	02
.440000	05	.1839843	03	.2519000	02-	.2545000	03	.8547906	01	.1151445	02
.450000	05	.1626528	03	.2219000	02-	.2554000	03	.9089018	01	.1285154	02
.460000	05	.1426545	03	.1915000	02-	.2595000	03	.8614682	01	.1172044	02
.470000	05	.1258560	03	.1651000	02-	.2656000	03	.8636052	01	.1032409	02
.480000	05	.1109239	03	.1431000	02-	.2701000	03	.8434250	01	.8680797	01
.490000	05	.9759170	02	.1246000	02-	.2728000	03	.8031069	01	.7155147	01
.500000	05	.8612600	02	.1082000	02-	.2772000	03	.7955730	01	.5365670	01
.510000	05	.7652682	02	.9440999	03-	.2824000	03	.8613401	01	.4101891	01
.520000	05	.6772757	02	.8301999	03-	.2842000	03	.8837243	01	.3649336	01
.530000	05	.5986157	02	.7373999	03-	.2828000	03	.8930332	01	.3816757	01
.540000	05	.5319547	02	.6810999	03-	.2721000	03	.9700161	01	.7876514	01
.550000	05	.4679601	02	.6200999	03-	.2629000	03	.9460263	01	.1058404	02
.560000	05	.4119649	02	.5513999	03-	.2603000	03	.9389704	01	.1080744	02
.570000	05	.3613025	02	.4801000	03-	.2622000	03	.9024092	01	.8814394	01
.580000	05	.3186395	02	.4320000	03-	.2570000	03	.9357957	01	.1052550	02
.590000	05	.2777097	02	.3810000	03-	.2536000	03	.8348666	01	.1013471	02
.600000	05	.2425460	02	.3379000	03-	.2502000	03	.8031850	01	.1045371	02
.610000	05	.2119819	02	.3026000	03-	.2441000	03	.7650410	01	.1195796	02
.620000	05	.1839843	02	.2706000	03-	.2369000	03	.6684190	01	.1307509	02
.630000	05	.1599864	02	.2433000	03-	.2291000	03	.6124143	01	.1448334	02
.640000	05	.1373216	02	.2096000	03-	.2283000	03	.4423940	01	.1127038	02
.650000	05	.1189232	02	.1812000	03-	.2286000	03	.3896645	01	.8730878	01
.660000	05	.1030579	02	.1558000	03-	.2304000	03	.3672996	01	.5892749	01
.670000	05	.8932572	01	.1361000	03-	.2286000	03	.3709756	01	.4983032	01
.680000	05	.7719343	01	.1183000	03-	.2273000	03	.3687295	01	.3781034	01
.690000	05	.6626103	01	.1018000	03-	.2267000	03	.3224960	01	.1799999	01
.700000	05	.5706181	01	.8934999	04-	.2225000	03	.3364048	01	.2073459	01
.710000	05	.4879584	01	.7836999	04-	.2169000	03	.3053099	01	.2522171	01
.720000	05	.4199642	01	.6933999	04-	.2110000	03	.3691545	01	.4125060	01
.730000	05	.3599693	01	.6116999	04-	.2050000	03	.4205747	01	.5709739	01
.740000	05	.3066405	01	.5292999	04-	.2018000	03	.4385435	01	.5541260	01
.750000	05	.2573114	01	.4331999	04-	.2069000	03	.3321331	01	.6920972-	01
.760000	05	.2199813	01	.3648000	04-	.2101000	03	.4529010	01	.2355455-	01
.770000	05	.1879840	01	.3105999	04-	.2108000	03	.6055856	01	.3239876-	01
.780000	05	.1599864	01	.2638000	04-	.2113000	03	.7539409	01	.4072724-	01
.790000	05	.1359884	01	.2277000	04-	.2081000	03	.9297880	01	.3065140-	01
.800000	05	.1151902	01	.1965000	04-	.2042000	03	.1112309	02	.1700851-	01
.810000	05	.9785834	00	.1711000	04-	.1992000	03	.1351950	02	.2948251	01
.820000	05	.8305959	00	.1490000	04-	.1942000	03	.1585778	02	.7814764	01
.830000	05	.7012736	00	.1272000	04-	.1921000	03	.1761601	02	.1060869	02
.840000	05	.5919496	00	.1066000	04-	.1935000	03	.1936394	02	.1147129	02
.850000	05	.4999574	00	.8454999	05-	.2060000	03	.2120180	02	.6285345	01
.860000	05	.4226307	00	.6980999	05-	.2109000	03	.2316927	02	.5500979	01
.870000	05	.3613025	00	.5911999	05-	.2129000	03	.2657741	02	.7412778	01
.880000	05	.3093070	00	.5011999	05-	.2150000	03	.3025647	02	.9456223	01
.890000	05	.2666439	00	.4239999	05-	.2191000	03	.3496860	02	.1128660	02
.900000	05	.2359799	00	.3502000	05-	.2281000	03	.4355756	02	.1047318	02
.910000	05	.1973165	00	.2874000	05-	.2392000	03	.4404770	02	.1062356	02
.920000	05	.1733186	00	.2497000	05-	.2418000	03	.5138316	02	.1684605	02
.930000	05	.1493206	00	.2139000	05-	.2432000	03	.5557959	02	.2132728	02
.940000	05	.1303889	00	.1851000	05-	.2454000	03	.6160643	02	.2686772	02
.950000	05	.1143903	00	.1617000	05-	.2465000	03	.6819129	02	.3352601	02
.960000	05	.1002581	00	.1390000	05-	.2513000	03	.7441354	02	.3789683	02
.970000	05	.8799250	01-	.1180000	05-	.2597000	03	.8064939	02	.4022578	02

# FIGURE 15

## 18 APRIL 1964, 0039 GMT, CHURCHILL

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
339.886	12.890	1.946	254.772	.785	41565.500
262.801	18.977	5.651	272.341	1.715	47156.000
236.629	13.733	4.913	268.848	1.863	51947.690
281.796	23.143	4.291	259.220	1.080	56577.650
233.779	25.323	.751	249.902	.151	61044.650
327.209	30.485	.643	226.758	.074	65898.440
312.297	40.291	3.406	223.440	.349	71081.690
147.163	40.256	11.486	211.040	1.242	76006.790
239.472	47.727	13.623	201.494	1.660	80701.050
281.116	24.037	10.141	190.691	1.438	85390.490
180.198	28.287	14.020	182.710	1.410	89581.250

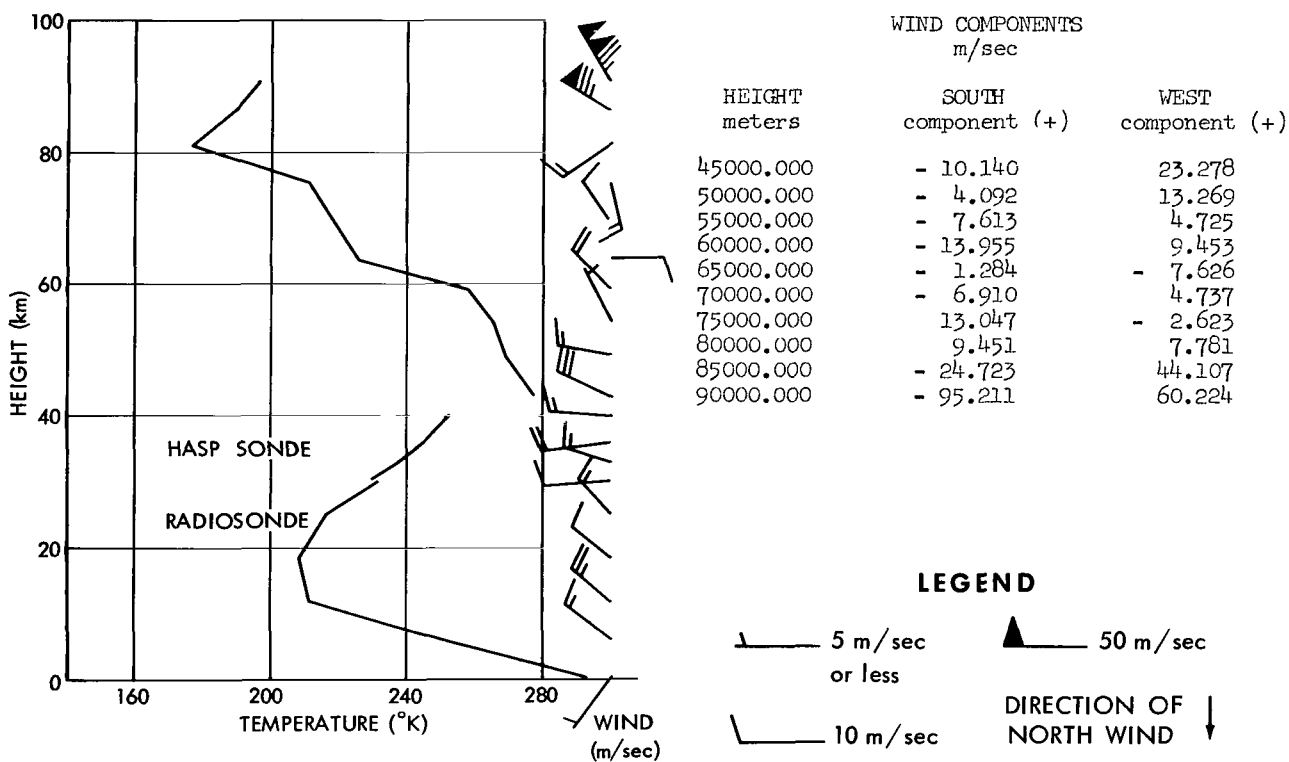


HEIGHT meters		PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)					
.3200000	05	.9206773	03	.1333082	01-	.2406073	03	.3555907	01	.1653865-	01
.3300000	05	.8001644	03	.1151500	01-	.2420880	03	.4282033	01	.5011422-	00
.3400000	05	.6960515	03	.9955838	02-	.2435688	03	.4919938	01	.6921857	00
.3500000	05	.6060234	03	.8615760	02-	.2450496	03	.5470032	01	.1800230	01
.3600000	05	.5281028	03	.7462875	02-	.2465304	03	.5933690	01	.2824180	01
.3700000	05	.4606001	03	.6470100	02-	.2480111	03	.6313269	01	.3762339	01
.3800000	05	.4020696	03	.5614395	02-	.2494919	03	.6610747	01	.4617375	01
.3900000	05	.3512743	03	.4876162	02-	.2509727	03	.6828438	01	.5391805	01
.4000000	05	.3071529	03	.4238689	02-	.2524534	03	.6968646	01	.6081275	01
.4100000	05	.2687954	03	.3687728	02-	.2539342	03	.7033091	01	.6692743	01
.4200000	05	.2354643	03	.3202659	02-	.2561371	03	.7045276	01	.6940666	01
.4300000	05	.2065579	03	.2775436	02-	.2592799	03	.7052007	01	.6792726	01
.4400000	05	.1814937	03	.2409453	02-	.2624226	03	.7078472	01	.6684889	01
.4500000	05	.1597229	03	.2095338	02-	.2655653	03	.7123995	01	.6562477	01
.4600000	05	.1407807	03	.1825242	02-	.2687081	03	.7187977	01	.6483996	01
.4700000	05	.1242720	03	.1592577	02-	.2718509	03	.7268734	01	.6420151	01
.4800000	05	.1097788	03	.1407492	02-	.2717259	03	.7314899	01	.6895400	01
.4900000	05	.9696125	02	.1246499	02-	.2709969	03	.7333177	01	.7198097	01
.5000000	05	.8561497	02	.1103604	02-	.2702678	03	.7315158	01	.7469524	01
.5100000	05	.7557387	02	.9768062	03-	.2695388	03	.7260876	01	.7708276	01
.5200000	05	.6668941	02	.8645378	03-	.2687392	03	.7168939	01	.7936378	01
.5300000	05	.5881216	02	.7683658	03-	.2666596	03	.7020704	01	.8176370	01
.5400000	05	.5181635	02	.6822883	03-	.2645800	03	.6856129	01	.8064752	01
.5500000	05	.4560894	02	.6053104	03-	.2625004	03	.6683599	01	.7946594	01
.5600000	05	.4010602	02	.5365275	03-	.2604208	03	.6502921	01	.7818731	01
.5700000	05	.3523211	02	.4751247	03-	.2583386	03	.6313922	01	.7686746	01
.5800000	05	.3091930	02	.4203579	03-	.2562528	03	.6115864	01	.7546928	01
.5900000	05	.2710659	02	.3715471	03-	.2541669	03	.5909105	01	.7402203	01
.6000000	05	.2373926	02	.3280840	03-	.2520811	03	.5692901	01	.7245029	01
.6100000	05	.2076820	02	.2894177	03-	.2499953	03	.5466750	01	.7080701	01
.6200000	05	.1813668	02	.2575347	03-	.2453467	03	.5166410	01	.7615520	01
.6300000	05	.1579774	02	.2287687	03-	.2405784	03	.4791550	01	.7645753	01
.6400000	05	.1372306	02	.2027434	03-	.2358100	03	.4354685	01	.7630443	01
.6500000	05	.1188713	02	.1792441	03-	.2310416	03	.3851273	01	.757216	01
.6600000	05	.1026788	02	.1577980	03-	.2266926	03	.3291605	01	.7250746	01
.6700000	05	.8855328	01	.1364752	03-	.2260524	03	.2812930	01	.5274254	01
.6800000	05	.7634249	01	.1179905	03-	.2254122	03	.2544306	01	.3509508	01
.6900000	05	.6579083	01	.1019720	03-	.2247721	03	.2492459	01	.1972054	01
.7000000	05	.5667604	01	.8809554	04-	.2241319	03	.2665249	01	.6403690	00
.7100000	05	.4880553	01	.7607914	04-	.2234918	03	.3073547	01	.4746763-	00
.7200000	05	.4198748	01	.6615080	04-	.2211276	03	.3669468	01	.6640283-	00
.7300000	05	.3606332	01	.5747167	04-	.2186100	03	.4397914	01	.6814374-	00
.7400000	05	.3092196	01	.4985236	04-	.2160924	03	.5263392	01	.5954778-	00
.7500000	05	.2646711	01	.4317323	04-	.2135748	03	.6276543	01	.4077557-	00
.7600000	05	.2261341	01	.3732707	04-	.2110573	03	.7452662	01	.8813530-	01-
.7700000	05	.1928885	01	.3214961	04-	.2090204	03	.8822866	01	.1545744	00
.7800000	05	.1642830	01	.2765081	04-	.2069869	03	.1042751	02	.5484153	00
.7900000	05	.1397051	01	.2374736	04-	.2049534	03	.1228510	02	.1095621	01
.8000000	05	.1186184	01	.2036506	04-	.2029199	03	.1443029	02	.1876271	01
.8100000	05	.1005505	01	.1744482	04-	.2008055	03	.1664248	02	.4962842	01
.8200000	05	.8508331	00	.1493269	04-	.1985018	03	.1868059	02	.8051338	01
.8300000	05	.7185887	00	.1275981	04-	.1961980	03	.2052005	02	.1095485	02
.8400000	05	.6057214	00	.1088344	04-	.1938942	03	.2214096	02	.1380785	02
.8500000	05	.5095676	00	.9265873	05-	.1915904	03	.2353156	02	.1647861	02
.8600000	05	.4278531	00	.7864568	05-	.1895300	03	.2469127	02	.1885399	02
.8700000	05	.3586026	00	.6658547	05-	.1876256	03	.2563154	02	.2097652	02
.8800000	05	.3000364	00	.5628212	05-	.1857213	03	.2635241	02	.2291360	02
.8900000	05	.2505880	00	.4749337	05-	.1838169	03	.2684148	02	.2465453	02

# FIGURE 16

## 18 APRIL 1964, 0100 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
297.448	31.003	2.727	277.409	1.717	42607.000
282.473	17.105	3.488	268.855	2.081	48716.700
334.238	5.920	3.959	264.785	3.343	53999.500
321.429	21.549	3.311	257.815	1.756	59050.200
87.407	9.194	2.359	225.426	1.148	64445.700
327.934	10.024	5.509	219.131	6.178	69602.940
167.624	15.002	15.938	211.611	6.077	75402.440
237.811	14.073	15.807	176.511	6.454	81726.440
304.472	74.971	44.969	189.706	16.425	86799.490
330.812	122.757	56.943	196.656	26.589	90725.240



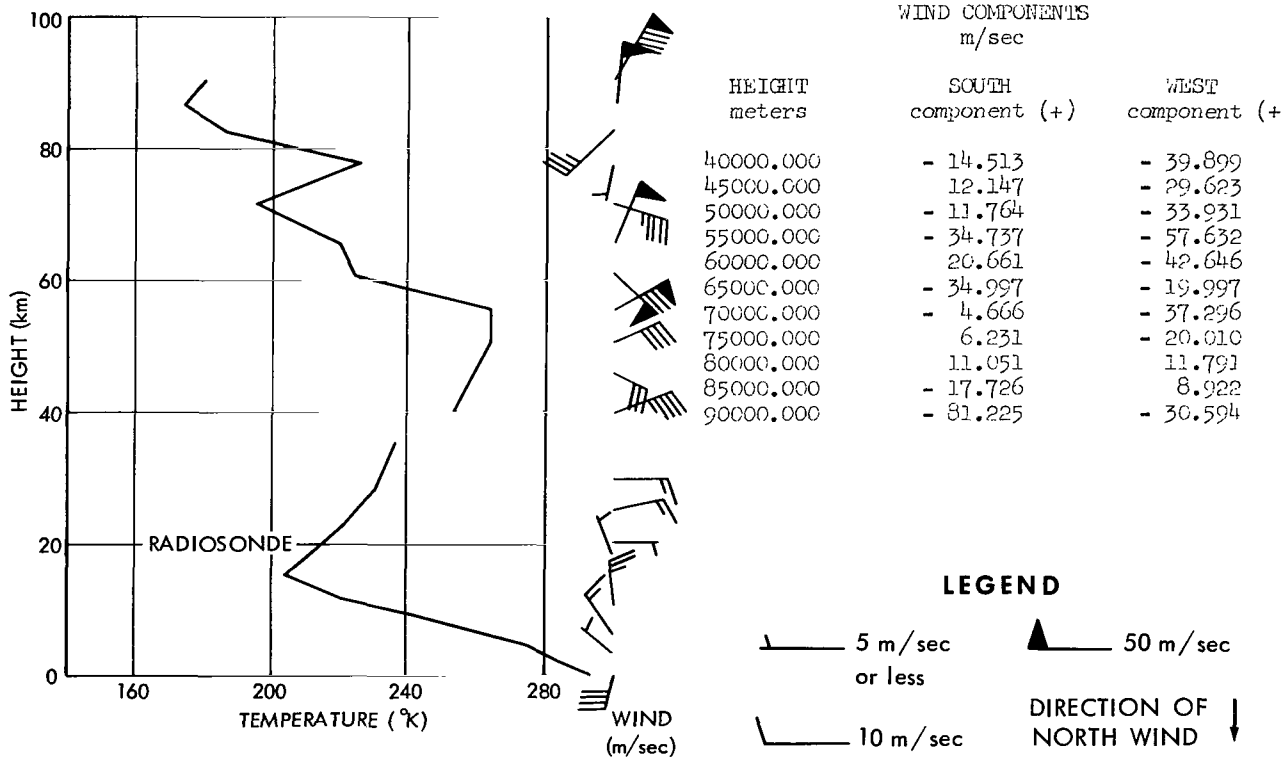


HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.3600000	05	.4820706	03	.6909991	02-	.2430476	03	.3300032-	01	.4797504-	01
.3700000	05	.4201778	03	.5896646	02-	.2482482	03	.3016785-	01	.5434261-	01
.3800000	05	.3672917	03	.5048691	02-	.2534489	03	.2610790-	01	.5923824-	01
.3900000	05	.3219540	03	.4336507	02-	.2586496	03	.2088381-	01	.6272121-	01
.4000000	05	.2829651	03	.3736229	02-	.2638503	03	.1454574-	01	.6493742-	01
.4100000	05	.2493351	03	.3228547	02-	.2690509	03	.7159023-	00	.6592198-	01
.4200000	05	.2202434	03	.2797769	02-	.2742516	03	.1256680	00	.6579091-	01
.4300000	05	.1948962	03	.2452473	02-	.2768582	03	.1008166	01	.5634190-	01
.4400000	05	.1725187	03	.2181919	02-	.2754582	03	.1783367	01	.3407879-	01
.4500000	05	.1526215	03	.1940132	02-	.2740581	03	.2361177	01	.1330822-	01
.4600000	05	.1349397	03	.1724168	02-	.2726581	03	.2740761	01	.5873537	00
.4700000	05	.1192353	03	.1531371	02-	.2712581	03	.2921285	01	.2330189	01
.4800000	05	.1052953	03	.1359351	02-	.2698580	03	.2931987	01	.3239276	01
.4900000	05	.9293233	02	.1205203	02-	.2686364	03	.2873289	01	.3646619	01
.5000000	05	.8198611	02	.1066303	02-	.2678660	03	.2766527	01	.3837137	01
.5100000	05	.7230589	02	.9431159	03-	.2670956	03	.2622698	01	.3993390	01
.5200000	05	.6374801	02	.8338970	03-	.2663252	03	.2442147	01	.4110908	01
.5300000	05	.5618469	02	.7370923	03-	.2655548	03	.2239491	01	.3773447	01
.5400000	05	.4950250	02	.6513182	03-	.2647842	03	.2084479	01	.3159524	01
.5500000	05	.4359429	02	.5765873	03-	.2634042	03	.1971130	01	.2824330	01
.5600000	05	.3836713	02	.5101245	03-	.2620241	03	.1885255	01	.2512865	01
.5700000	05	.3374534	02	.4510493	03-	.2606441	03	.1827537	01	.2230066	01
.5800000	05	.2966126	02	.3985706	03-	.2592641	03	.1798252	01	.1972740	01
.5900000	05	.2605456	02	.3519795	03-	.2578841	03	.1798709	01	.1745826	01
.6000000	05	.2284569	02	.3156943	03-	.2521133	03	.1714504	01	.3195047	01
.6100000	05	.1997072	02	.2826975	03-	.2461104	03	.1416934	01	.4594309	01
.6200000	05	.1740040	02	.2524712	03-	.2401074	03	.8970423	00	.5499640	01
.6300000	05	.1510876	02	.2248419	03-	.2341045	03	.2212908	00	.5797998	01
.6400000	05	.1307148	02	.1996433	03-	.2281016	03	.6001294-	00	.5984648	01
.6500000	05	.1127570	02	.1747845	03-	.2247495	03	.1490437-	01	.4881218	01
.6600000	05	.9712442	01	.1513746	03-	.2235288	03	.2295888-	01	.2884964	01
.6700000	05	.8359468	01	.1310030	03-	.2223082	03	.2944149-	01	.1051433	01
.6800000	05	.7189363	01	.1132881	03-	.2210875	03	.3431474-	01	.6157341-	00
.6900000	05	.6178174	01	.9789456	04-	.2198669	03	.3753114-	01	.2105444-	01
.7000000	05	.5304927	01	.8453871	04-	.2186160	03	.3904429-	01	.3422955-	01
.7100000	05	.4551269	01	.7296126	04-	.2173193	03	.3880673-	01	.4553437-	01
.7200000	05	.3901291	01	.6291688	04-	.2160226	03	.3674925-	01	.5520279-	01
.7300000	05	.3341197	01	.5420953	04-	.2147260	03	.3277349-	01	.6318847-	01
.7400000	05	.2858966	01	.4666735	04-	.2134293	03	.2676140-	01	.6946312-	01
.7500000	05	.2444131	01	.4013980	04-	.2121326	03	.1857882-	01	.7405297-	01
.7600000	05	.2085587	01	.3488264	04-	.2082942	03	.8986721-	00	.6631035-	01
.7700000	05	.1773283	01	.3047111	04-	.2027439	03	.4415956	01-	.5074420-	01
.7800000	05	.1501047	01	.2651914	04-	.1971937	03	.8971827	00	.3566747-	01
.7900000	05	.1264641	01	.2298959	04-	.1916435	03	.1642898	01	.2130301-	01
.8000000	05	.1060172	01	.1984740	04-	.1860933	03	.2273969	01	.7133187-	00
.8100000	05	.8840780	00	.1705956	04-	.1805431	03	.2556513	01	.2644813	01
.8200000	05	.7339691	00	.1442835	04-	.1772227	03	.2379530	01	.4401948	01
.8300000	05	.6091557	00	.1180157	04-	.1798236	03	.2166206	01	.2622389	01
.8400000	05	.5069511	00	.9681468	05-	.1824244	03	.2224375	01	.1238817	01
.8500000	05	.4230164	00	.7964971	05-	.1850253	03	.2549439	01	.1253399	00
.8600000	05	.3538912	00	.6571044	05-	.1876262	03	.3136179	01	.6945051-	00
.8700000	05	.2967831	00	.5440080	05-	.1900606	03	.3973897	01	.1161333-	01
.8800000	05	.2493872	00	.4529117	05-	.1918310	03	.5022819	01	.1089378-	01
.8900000	05	.2099066	00	.3777251	05-	.1936014	03	.6249557	01	.8595561-	00
.9000000	05	.1769631	00	.3155578	05-	.1953718	03	.7654880	01	.4549410-	00

# FIGURE 17

## 7 AUGUST 1964, 0100 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
68.665	43.355	2.547	253.807	1.077	39763.650
118.911	32.311	3.070	259.002	1.090	45651.550
64.634	38.645	5.678	264.491	1.860	50760.800
58.451	71.703	8.191	264.315	2.523	55648.150
129.584	50.574	7.640	224.417	1.857	60865.150
17.995	51.740	10.409	219.661	2.717	65874.150
104.949	46.906	4.657	196.301	2.115	71552.950
191.073	1.552	16.432	225.771	3.215	77766.000
228.725	34.857	23.162	186.204	4.904	82800.350
5.204	49.556	22.906	173.980	5.185	86708.350
21.465	90.676	30.184	180.446	9.385	90326.500

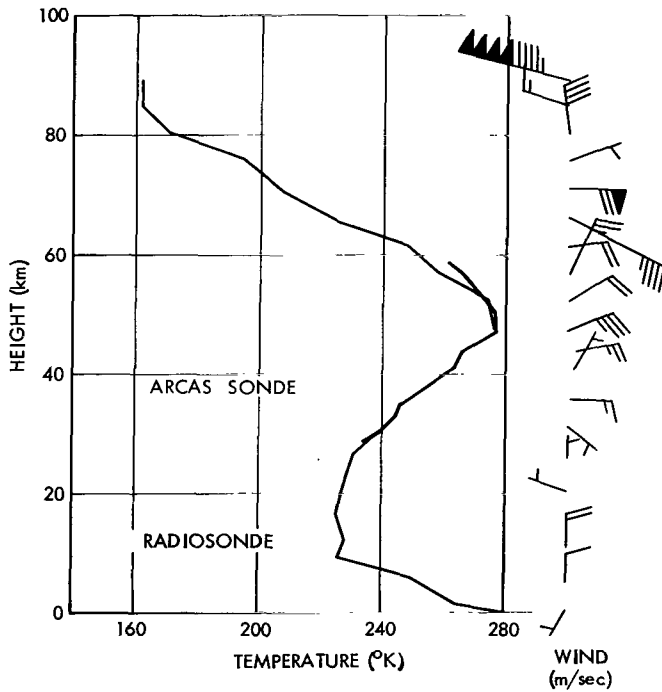


HEIGHT meters		PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)				
.350000	05	.6116002	03	.9035587	02-	.2358139	03	.6440594	01	.6760732	01
.360000	05	.5306121	03	.7715513	02-	.2395910	03	.6437058	01	.6305056	01
.370000	05	.4613926	03	.6604882	02-	.2433681	03	.6496192	01	.5923871	01
.380000	05	.4020848	03	.5667917	02-	.2471453	03	.6614761	01	.5614695	01
.390000	05	.3511472	03	.4875375	02-	.2509224	03	.6789792	01	.5374786	01
.400000	05	.3072414	03	.4213839	02-	.2540153	03	.6999446	01	.5459356	01
.410000	05	.2691177	03	.3678193	02-	.2548977	03	.7161416	01	.6416874	01
.420000	05	.2358421	03	.3212276	02-	.2557801	03	.7217047	01	.7261777	01
.430000	05	.2067833	03	.2806799	02-	.2566625	03	.7168842	01	.7999505	01
.440000	05	.1813943	03	.2453742	02-	.2575449	03	.7019821	01	.8625535	01
.450000	05	.1592004	03	.2146169	02-	.2584273	03	.6773505	01	.9147580	01
.460000	05	.1397920	03	.1877630	02-	.2593765	03	.6435226	01	.9540262	01
.470000	05	.1228169	03	.1642822	02-	.2604508	03	.6012813	01	.9777618	01
.480000	05	.1079649	03	.1438227	02-	.2615252	03	.5541715	01	.9229665	01
.490000	05	.9496294	02	.1259849	02-	.2625995	03	.5121112	01	.8346121	01
.500000	05	.8357378	02	.1104234	02-	.2636739	03	.4756611	01	.7530821	01
.510000	05	.7358701	02	.9693088	03-	.2644826	03	.4440973	01	.6881578	01
.520000	05	.6480560	02	.8537541	03-	.2644465	03	.4141680	01	.6590045	01
.530000	05	.5707436	02	.7520048	03-	.2644104	03	.3858422	01	.5872943	01
.540000	05	.5026621	02	.6623919	03-	.2643743	03	.3659424	01	.4913433	01
.550000	05	.4427055	02	.5834627	03-	.2643382	03	.3552979	01	.4050422	01
.560000	05	.3896735	02	.5188974	03-	.2616240	03	.3479159	01	.4275845	01
.570000	05	.3421269	02	.4693020	03-	.2539762	03	.3237791	01	.6367030	01
.580000	05	.2992015	02	.4231626	03-	.2463284	03	.2686756	01	.8264509	01
.590000	05	.2605688	02	.3803323	03-	.2386807	03	.1807749	01	.9941716	01
.600000	05	.2259148	02	.3406662	03-	.2310329	03	.5827277	00	.1135794	02
.610000	05	.1949974	02	.3028867	03-	.2242884	03	.9748044-	00	.1206405	02
.620000	05	.1678954	02	.2618982	03-	.2233390	03	.2645041-	01	.9438890	01
.630000	05	.1444749	02	.2263269	03-	.2223895	03	.4165147-	01	.6496746	01
.640000	05	.1242472	02	.1954738	03-	.2214401	03	.5518278-	01	.3771230	01
.650000	05	.1067874	02	.1687284	03-	.2204906	03	.6705731-	01	.1247151	01
.660000	05	.9171295	01	.1458012	03-	.2191430	03	.7739659-	01	.9031030-	00
.670000	05	.7861929	01	.1273764	03-	.2150296	03	.8720733-	01	.1746028-	01
.680000	05	.6719801	01	.1109953	03-	.2109161	03	.9738691-	01	.2627119-	01
.690000	05	.5726148	01	.9646383	04-	.2068027	03	.1079501-	02	.3536166-	01
.700000	05	.4864011	01	.8360301	04-	.2026893	03	.1189136-	02	.4491902-	01
.710000	05	.4118090	01	.7224828	04-	.1985759	03	.1302908-	02	.5486133-	01
.720000	05	.3480493	01	.6110961	04-	.1984218	03	.1406466-	02	.8234169-	01
.730000	05	.2947433	01	.5054213	04-	.2031649	03	.1467621-	02	.1265660-	02
.740000	05	.2505737	01	.4198774	04-	.2079080	03	.1470064-	02	.1627737-	02
.750000	05	.2138153	01	.3502913	04-	.2126511	03	.1414419-	02	.1919463-	02
.760000	05	.1830977	01	.2934223	04-	.2173942	03	.1299706-	02	.2146084-	02
.770000	05	.1573262	01	.2467390	04-	.2221373	03	.1124049-	02	.2313425-	02
.780000	05	.1354900	01	.2107902	04-	.2239314	03	.8926555-	01	.2334903-	02
.790000	05	.1164481	01	.1877552	04-	.2160720	03	.6407284-	01	.2007016-	02
.800000	05	.9952706	00	.1665300	04-	.2082126	03	.3987008-	01	.1669336-	02
.810000	05	.8455667	00	.1470313	04-	.2003532	03	.1910953-	01	.1153350-	02
.820000	05	.7137465	00	.1291771	04-	.1924938	03	.4412628-	00	.6528882-	01
.830000	05	.5985346	00	.1123617	04-	.1855791	03	.3848450	00	.2294133-	01
.840000	05	.4995504	00	.9538739	05-	.1824511	03	.7320715	00	.2536847-	00
.850000	05	.4156584	00	.8075293	05-	.1793232	03	.7656776	00	.1512173	01
.860000	05	.3447576	00	.6816758	05-	.1761952	03	.4743461	00	.3018864	01
.870000	05	.2852338	00	.5694578	05-	.1745008	03	.7225059-	01-	.3462541	01
.880000	05	.2360129	00	.4664133	05-	.1762881	03	.6093939-	00	.1859221	01
.890000	05	.1956706	00	.3828071	05-	.1780754	03	.9563489-	00	.4743038	00
.900000	05	.1625374	00	.3148260	05-	.1798626	03	.1120923-	01	.6858078-	00

# FIGURE 18

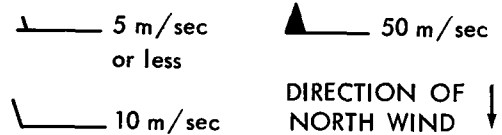
## 8 AUGUST 1964, 0400 GMT, CHURCHILL

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
66.820	35.910	3.280	275.849	.733	47483.900
56.763	18.312	3.994	273.941	.844	52367.300
25.667	23.013	3.852	267.797	.690	57019.350
80.281	17.523	8.744	248.758	.976	61441.000
116.984	45.124	6.961	224.467	.737	66185.700
90.873	69.907	9.755	205.617	.648	71211.150
66.389	1.714	17.468	194.531	.769	75964.490
353.396	38.221	10.404	171.442	.545	80490.240
289.436	14.399	12.483	162.475	.313	84777.940
286.564	244.104	22.785	162.544	2.612	88801.690



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
50000.000	- 12.024	- 23.894
55000.000	- 16.095	- 12.290
60000.000	- 8.754	- 14.891
65000.000	14.619	- 34.479
70000.000	5.743	- 62.745
75000.000	- .331	- 15.435
80000.000	- 33.929	3.749
85000.000	- 8.367	25.741

### LEGEND

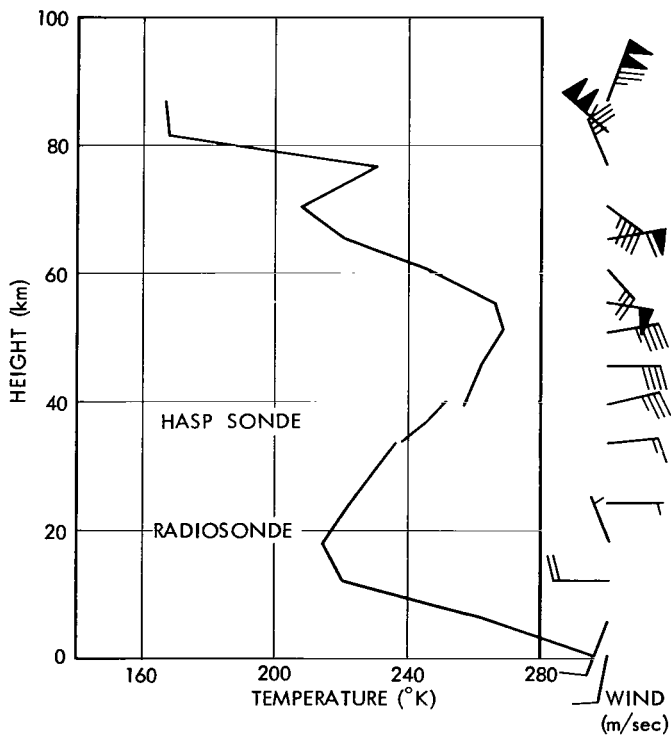


HEIGHT meters		PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)				
.4300000	05	.2262592	03	.2983388	02-	.2642133	03	.1726251	02	.1479427	02
.4400000	05	.1992563	03	.2601783	02-	.2668083	03	.1755814	02	.1517919	02
.4500000	05	.1756990	03	.2272084	02-	.2694033	03	.1783889	02	.1555126	02
.4600000	05	.1551197	03	.1986822	02-	.2719983	03	.1810548	02	.1591053	02
.4700000	05	.1371182	03	.1739656	02-	.2745933	03	.1835741	02	.1624832	02
.4800000	05	.1213098	03	.1533205	02-	.2756474	03	.1858706	02	.1644298	02
.4900000	05	.1073434	03	.1358613	02-	.2752568	03	.1882594	02	.1683976	02
.5000000	05	.9497234	02	.1203744	02-	.2748661	03	.1904427	02	.1722115	02
.5100000	05	.8401544	02	.1066384	02-	.2744754	03	.1924188	02	.1758567	02
.5200000	05	.7431249	02	.9445721	03-	.2740847	03	.1941913	02	.1792855	02
.5300000	05	.6571256	02	.8382543	03-	.2731057	03	.1957738	02	.1801580	02
.5400000	05	.5807994	02	.7444900	03-	.2717850	03	.1977295	02	.1791660	02
.5500000	05	.5130496	02	.6608571	03-	.2704643	03	.2000712	02	.1785238	02
.5600000	05	.4529453	02	.5862999	03-	.2691436	03	.2028119	02	.1782082	02
.5700000	05	.3996528	02	.5198682	03-	.2678229	03	.2059639	02	.1782784	02
.5800000	05	.3521815	02	.4655015	03-	.2635747	03	.2086966	02	.1909673	02
.5900000	05	.3097199	02	.4161762	03-	.2592687	03	.2101176	02	.2030300	02
.6000000	05	.2718033	02	.3713952	03-	.2549627	03	.2101338	02	.2140270	02
.6100000	05	.2380084	02	.3308042	03-	.2506567	03	.2086736	02	.2239316	02
.6200000	05	.2079193	02	.2945788	03-	.2458960	03	.2056296	02	.2309507	02
.6300000	05	.1811439	02	.2621006	03-	.2407764	03	.2015864	02	.2332985	02
.6400000	05	.1573566	02	.2326286	03-	.2356569	03	.1965922	02	.2349558	02
.6500000	05	.1362771	02	.2059395	03-	.2305374	03	.1905777	02	.2357608	02
.6600000	05	.1176461	02	.1818225	03-	.2254178	03	.1834831	02	.2357947	02
.6700000	05	.1012628	02	.1593329	03-	.2214127	03	.1756904	02	.2290415	02
.6800000	05	.8693453	01	.1391452	03-	.2176617	03	.1677168	02	.2206794	02
.6900000	05	.7443958	01	.1212354	03-	.2139108	03	.1596594	02	.2123540	02
.7000000	05	.6356888	01	.1053788	03-	.2101598	03	.1515121	02	.2038473	02
.7100000	05	.5413425	01	.9136968	04-	.2064088	03	.1432740	02	.1952812	02
.7200000	05	.4598719	01	.7862124	04-	.2037770	03	.1354497	02	.1806232	02
.7300000	05	.3899027	01	.6743083	04-	.2014448	03	.1287101	02	.1652927	02
.7400000	05	.3299616	01	.5773286	04-	.1991125	03	.1232431	02	.1511806	02
.7500000	05	.2787014	01	.4934188	04-	.1967803	03	.1191029	02	.1382210	02
.7600000	05	.2349335	01	.4211329	04-	.1943497	03	.1163387	02	.1272295	02
.7700000	05	.1973849	01	.3633629	04-	.1892480	03	.1135958	02	.1319719	02
.7800000	05	.1650593	01	.3122734	04-	.1841463	03	.1094929	02	.1355396	02
.7900000	05	.1373436	01	.2672422	04-	.1790447	03	.1038704	02	.1376851	02
.8000000	05	.1136827	01	.2276908	04-	.1739430	03	.9668785	01	.1390236	02
.8100000	05	.9365733	00	.1915102	04-	.1703759	03	.8646165	01	.1522876	02
.8200000	05	.7691507	00	.1592302	04-	.1682845	03	.7286929	01	.1521725	02
.8300000	05	.6301421	00	.1320942	04-	.1661931	03	.5685983	01	.1486450	02
.8400000	05	.5149870	00	.1093305	04-	.1641017	03	.3844777	01	.1432655	02
.8500000	05	.4199378	00	.9004239	05-	.1624786	03	.1803102	01	.1318967	02
.8600000	05	.3421295	00	.7335111	05-	.1624958	03	.2915700-	00	.1085252	02
.8700000	05	.2787556	00	.5975770	05-	.1625129	03	.2341775-	01	.8571400	01
.8800000	05	.2271331	00	.4868608	05-	.1625301	03	.4348873-	01	.6324732	01

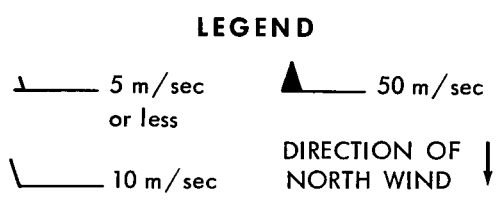
# FIGURE 19

## 12 AUGUST 1964, 0149 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
69.612	36.748	1.421	256.681	.485	39605.000
90.971	39.830	2.519	261.518	.733	45335.050
72.979	45.069	7.871	267.762	2.304	50305.250
102.652	49.277	6.720	265.830	1.976	55069.150
139.366	23.984	3.696	247.076	.989	60139.550
76.537	62.458	3.954	220.874	.876	65001.500
124.881	44.554	4.489	208.366	.995	70496.350
334.101	32.947	8.393	229.806	2.035	76484.240
308.135	105.452	45.833	168.361	8.671	81311.990
33.936	125.535	20.998	166.950	5.070	86731.240



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
40000.000	- 11.873	- 34.817
45000.000	- .113	- 39.510
50000.000	- 12.341	- 42.894
55000.000	10.445	- 48.008
60000.000	17.997	- 16.512
65000.000	- 14.532	- 60.728
70000.000	21.864	- 38.734
75000.000	- 15.976	1.764
80000.000	- 55.476	64.314
85000.000	- 91.683	- 21.196

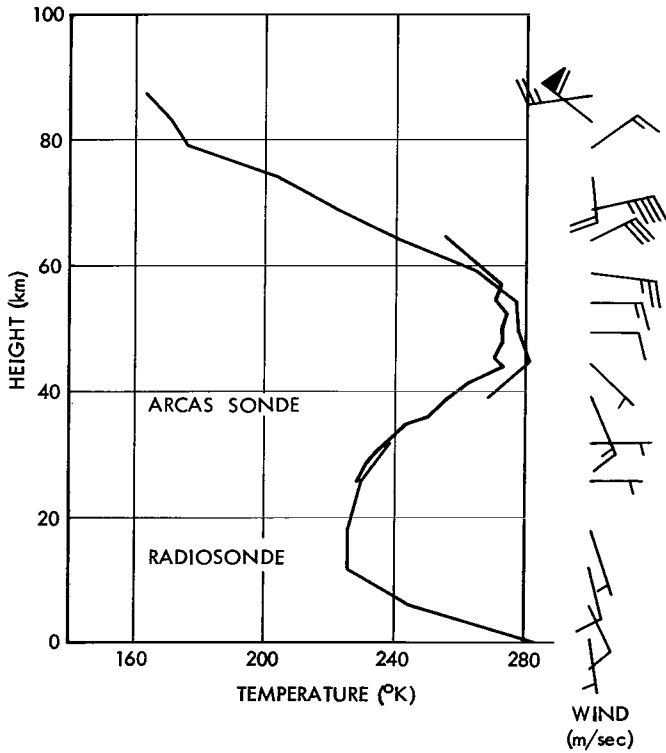


HEIGHT		PRESSURE		DENSITY		TEMPERATURE		PRESSURE		DENSITY	
meters		nt/sq meter		kg/cu meter		degrees Kelvin		dev. from std atmosphere (%)		dev. from std atmosphere (%)	
.3500000	05	.6104188	03	.8884152	02-	.2393702	03	.6234988	01	.4971440	01
.3600000	05	.5306944	03	.7604407	02-	.2431293	03	.6453549	01	.4774217	01
.3700000	05	.4623941	03	.6524839	02-	.2468884	03	.6727359	01	.4640198	01
.3800000	05	.4037409	03	.5611739	02-	.2506475	03	.7053883	01	.4567881	01
.3900000	05	.3532549	03	.4837466	02-	.2544066	03	.7430760	01	.4555443	01
.4000000	05	.3096096	03	.4196771	02-	.2570143	03	.7824190	01	.5032200	01
.4100000	05	.2716083	03	.3669610	02-	.2578584	03	.8153161	01	.6168564	01
.4200000	05	.2383830	03	.3210206	02-	.2587025	03	.8372178	01	.7192661	01
.4300000	05	.2093195	03	.2809652	02-	.2595466	03	.8483257	01	.8109277	01
.4400000	05	.1838845	03	.2460241	02-	.2603907	03	.8488975	01	.8913242	01
.4500000	05	.1616142	03	.2155295	02-	.2612348	03	.8392451	01	.9611691	01
.4600000	05	.1421157	03	.1887183	02-	.2623530	03	.8204416	01	.1009762	02
.4700000	05	.1250471	03	.1652612	02-	.2636094	03	.7937840	01	.1043179	02
.4800000	05	.1100998	03	.1448168	02-	.2648656	03	.7628634	01	.9984671	01
.4900000	05	.9700143	02	.1269859	02-	.2661220	03	.7377651	01	.9207022	01
.5000000	05	.8551573	02	.1114238	02-	.2673782	03	.7190770	01	.8505052	01
.5100000	05	.7541770	02	.9822908	03-	.2674800	03	.7039242	01	.8313034	01
.5200000	05	.6650926	02	.8675765	03-	.2670745	03	.6879436	01	.8315751	01
.5300000	05	.5864411	02	.7661432	03-	.2666690	03	.6714912	01	.7863464	01
.5400000	05	.5170125	02	.6764684	03-	.2662635	03	.6618759	01	.7142955	01
.5500000	05	.4557336	02	.5971996	03-	.2658580	03	.6600375	01	.6500168	01
.5600000	05	.4013621	02	.5329079	03-	.2623870	03	.6583090	01	.7091340	01
.5700000	05	.3528740	02	.4752269	03-	.2586883	03	.6480750	01	.7709912	01
.5800000	05	.3096815	02	.4231077	03-	.2549896	03	.6283528	01	.8250443	01
.5900000	05	.2716291	02	.3760812	03-	.2512909	03	.5988494	01	.8712842	01
.6000000	05	.2371649	02	.3337119	03-	.2475922	03	.5591532	01	.9084681	01
.6100000	05	.2068541	02	.2972486	03-	.2424390	03	.5046317	01	.9978010	01
.6200000	05	.1798831	02	.2643681	03-	.2370498	03	.4306086	01	.1047097	02
.6300000	05	.1559340	02	.2345021	03-	.2316607	03	.3436059	01	.1034353	02
.6400000	05	.1347256	02	.2074333	03-	.2262715	03	.2449839	01	.1012015	02
.6500000	05	.1159977	02	.1829559	03-	.2208824	03	.1340775	01	.9784537	01
.6600000	05	.9961781	01	.1587605	03-	.2186013	03	.2123749	00	.7904895	01
.6700000	05	.8541864	01	.1375638	03-	.2163250	03	.8264798-	00	.6112186	01
.6800000	05	.7312785	01	.1190224	03-	.2140486	03	.1773651-	01	.4414748	01
.6900000	05	.6250469	01	.1028257	03-	.2117722	03	.2626869-	01	.2825734	01
.7000000	05	.5333683	01	.8869720	04-	.2094958	03	.3383537-	01	.1327709	01
.7100000	05	.4548846	01	.7540324	04-	.2101693	03	.3931851-	01	.1358876-	01
.7200000	05	.3885870	01	.6333454	04-	.2137498	03	.4055676-	01	.4893094-	01
.7300000	05	.3328378	01	.5335443	04-	.2173303	03	.3648427-	01	.7796576-	01
.7400000	05	.2858227	01	.4507521	04-	.2209108	03	.2701308-	01	.1012100-	02
.7500000	05	.2460618	01	.3818587	04-	.2244914	03	.1195875-	01	.1191264-	02
.7600000	05	.2123444	01	.3243600	04-	.2280719	03	.9001788	00	.1317987-	02
.7700000	05	.1831803	01	.2858660	04-	.2232413	03	.3345749	01	.1094517-	02
.7800000	05	.1570811	01	.2599568	04-	.2105139	03	.5586514	01	.5470237-	01
.7900000	05	.1334217	01	.2350109	04-	.1977865	03	.7234917	01	.4721319	01-
.8000000	05	.1121076	01	.2110488	04-	.1850591	03	.8149355	01	.5577218	01
.8100000	05	.9304234	00	.1880935	04-	.1723316	03	.7932754	01	.1317300	02
.8200000	05	.7651942	00	.1585080	04-	.1681817	03	.6735048	01	.1469463	02
.8300000	05	.6277390	00	.1302361	04-	.1679213	03	.5282944	01	.1324883	02
.8400000	05	.5148483	00	.1069808	04-	.1676609	03	.3816809	01	.1186948	02
.8500000	05	.4221536	00	.8785614	05-	.1674004	03	.2340280	01	.1044141	02
.8600000	05	.3460626	00	.7213273	05-	.1671400	03	.8546638	00	.9011240	01

# FIGURE 20

## 12 AUGUST 1964, 0215 GMT, CHURCHILL

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
156.868	13.501	2.775	268.835	.743	38980.950
133.566	2.720	2.745	280.871	.674	44660.850
90.860	11.215	2.134	278.169	.355	49526.850
88.694	12.765	1.680	277.500	.271	54233.450
97.114	26.639	5.088	264.920	.486	58785.850
64.002	27.587	7.149	240.926	.573	63716.700
78.474	46.709	6.996	221.247	.445	68987.450
173.811	22.060	7.409	204.215	.308	73995.300
55.212	15.741	7.182	176.185	.262	78777.800
310.043	60.230	6.561	170.995	.285	83321.950
263.038	27.342	12.941	162.594	.472	87602.600



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
40000.000	10.524	- 4.706
45000.000	1.756	- 2.615
50000.000	.122	- 11.369
55000.000	.314	- 15.064
60000.000	- .491	- 26.030
65000.000	- 11.420	- 29.901
70000.000	- 3.011	- 36.994
75000.000	15.437	- 4.594
80000.000	- 16.988	2.951
85000.000	- 22.260	38.674

**LEGEND**

5 m/sec or less      50 m/sec  
 10 m/sec      DIRECTION OF NORTH WIND ↓

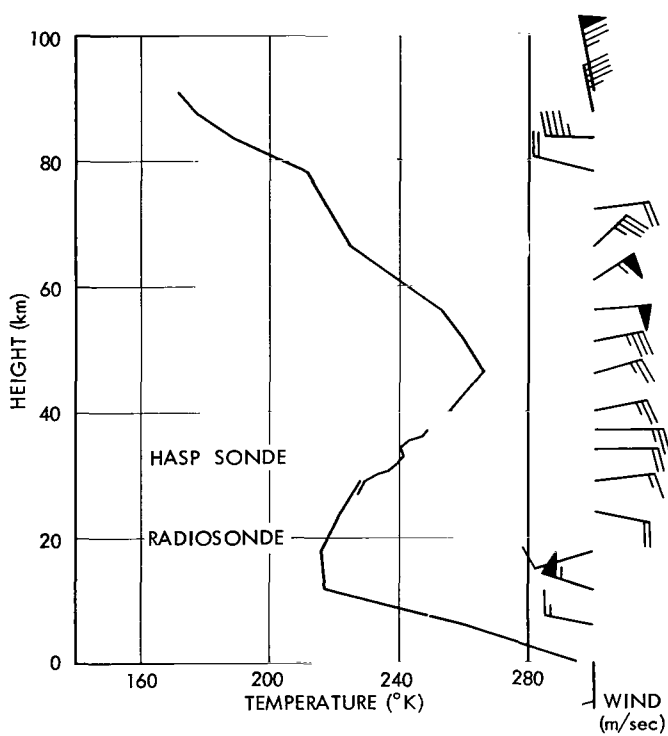


HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.3700000	05	.4941487	03	.6846027	02-	.2514648	03	.1405677	02	.9791156	01
.3800000	05	.4329789	03	.5796451	02-	.2602332	03	.1480650	02	.8009754	01
.3900000	05	.3810501	03	.4937304	02-	.2688750	03	.1588377	02	.6713304	01
.4000000	05	.3362212	03	.4322385	02-	.2709940	03	.1709191	02	.8175940	01
.4100000	05	.2969670	03	.3788122	02-	.2731130	03	.1825089	02	.9597326	01
.4200000	05	.2625577	03	.3323409	02-	.2752321	03	.1936230	02	.1097267	02
.4300000	05	.2323635	03	.2918746	02-	.2773511	03	.2042620	02	.1230697	02
.4400000	05	.2058408	03	.2565986	02-	.2794701	03	.2144290	02	.1359451	02
.4500000	05	.1824839	03	.2264999	02-	.2806821	03	.2238947	02	.1519091	02
.4600000	05	.1618059	03	.2012322	02-	.2801269	03	.2319618	02	.1739820	02
.4700000	05	.1434419	03	.1787480	02-	.2795716	03	.2381587	02	.1944403	02
.4800000	05	.1271367	03	.1587447	02-	.2790164	03	.2428315	02	.2056257	02
.4900000	05	.1126620	03	.1409519	02-	.2784612	03	.2471344	02	.2121769	02
.5000000	05	.9981900	02	.1250455	02-	.2781014	03	.2511938	02	.2176992	02
.5100000	05	.8843360	02	.1108394	02-	.2779593	03	.2551251	02	.2221789	02
.5200000	05	.7834442	02	.9824421	03-	.2778173	03	.2589837	02	.2265655	02
.5300000	05	.6940498	02	.8707864	03-	.2776752	03	.2629650	02	.2295951	02
.5400000	05	.6148428	02	.7718047	03-	.2775331	03	.2679341	02	.2224285	02
.5500000	05	.5444231	02	.6887470	03-	.2753816	03	.2734566	02	.2282605	02
.5600000	05	.4815611	02	.6153963	03-	.2726181	03	.2788023	02	.2366794	02
.5700000	05	.4254420	02	.5492482	03-	.2698546	03	.2837836	02	.2448681	02
.5800000	05	.3753981	02	.4896556	03-	.2670911	03	.2883766	02	.2527650	02
.5900000	05	.3307874	02	.4367219	03-	.2638774	03	.2924311	02	.2624209	02
.6000000	05	.2909198	02	.3913026	03-	.2590113	03	.2952451	02	.2791010	02
.6100000	05	.2552451	02	.3498916	03-	.2541453	03	.2962064	02	.2945522	02
.6200000	05	.2233886	02	.3122002	03-	.2492792	03	.2953294	02	.3045847	02
.6300000	05	.1950032	02	.2779555	03-	.2444132	03	.2935191	02	.3079026	02
.6400000	05	.1697830	02	.2465927	03-	.2398680	03	.2910864	02	.3090869	02
.6500000	05	.1474756	02	.2175801	03-	.2361344	03	.2884133	02	.3056111	02
.6600000	05	.1278176	02	.1916068	03-	.2324009	03	.2858048	02	.3022961	02
.6700000	05	.1105285	02	.1683946	03-	.2286674	03	.2832682	02	.2989405	02
.6800000	05	.9535398	01	.1476869	03-	.2249339	03	.2808081	02	.2956131	02
.6900000	05	.8206363	01	.1292453	03-	.2212046	03	.2784309	02	.2924530	02
.7000000	05	.7045707	01	.1126985	03-	.2178035	03	.2762877	02	.2874675	02
.7100000	05	.6034996	01	.9806309	04-	.2144024	03	.2745451	02	.2828431	02
.7200000	05	.5156740	01	.8514289	04-	.2110013	03	.2732284	02	.2785562	02
.7300000	05	.4395266	01	.7375909	04-	.2076002	03	.2723637	02	.2746535	02
.7400000	05	.3736530	01	.6375254	04-	.2041875	03	.2719757	02	.2712219	02
.7500000	05	.3164800	01	.5559345	04-	.1983265	03	.2707999	02	.26824325	02
.7600000	05	.2667371	01	.4828236	04-	.1924656	03	.2674607	02	.2623545	02
.7700000	05	.2236390	01	.4175258	04-	.1866046	03	.2617149	02	.3007036	02
.7800000	05	.1864633	01	.3594086	04-	.1807436	03	.2533662	02	.3069406	02
.7900000	05	.1546335	01	.3062097	04-	.1759312	03	.2428350	02	.3035748	02
.8000000	05	.1278391	01	.2548048	04-	.1747891	03	.2332544	02	.2746616	02
.8100000	05	.1055622	01	.2117869	04-	.1736470	03	.2245625	02	.2742895	02
.8200000	05	.8706222	00	.1758273	04-	.1725049	03	.2144094	02	.2722673	02
.8300000	05	.7171694	00	.1458019	04-	.1713629	03	.2028200	02	.2678428	02
.8400000	05	.5898450	00	.1211171	04-	.1696644	03	.1893955	02	.2665178	02
.8500000	05	.4841270	00	.1005727	04-	.1677017	03	.1736413	02	.2642700	02
.8600000	05	.3964586	00	.8333573	05-	.1657390	03	.1554181	02	.2594186	02
.8700000	05	.3239141	00	.6890280	05-	.1637764	03	.1347889	02	.2518677	02

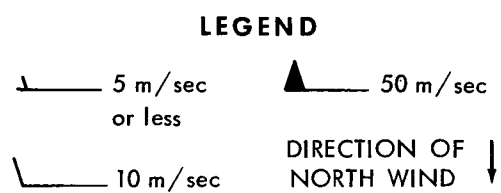
# FIGURE 21

## 16 AUGUST 1964, 0315 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
81.480	24.733	1.370	256.134	.328	40097.550
73.280	26.888	1.288	266.317	.320	46008.200
81.633	36.894	2.733	260.373	.508	51119.900
86.808	48.445	6.176	252.648	1.114	56028.690
58.101	56.118	7.584	239.229	1.401	61291.750
47.147	35.546	6.944	225.253	1.515	66327.440
80.506	20.302	6.856	218.245	1.299	72021.690
301.139	20.612	11.159	211.349	1.856	78258.190
274.122	44.632	24.713	189.551	3.617	83304.140
352.582	44.378	19.855	178.267	3.956	87248.990
352.634	76.582	31.909	172.454	5.328	90917.200



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
45000.000	- 7.041	- 25.531
50000.000	- 5.887	- 34.146
55000.000	- 3.258	- 45.883
60000.000	- 23.038	- 47.821
65000.000	- 25.619	- 31.749
70000.000	- 10.743	- 22.167
75000.000	- 6.840	- 2.036
80000.000	- 8.087	26.919
85000.000	- 20.747	27.842
90000.000	- 67.963	8.796

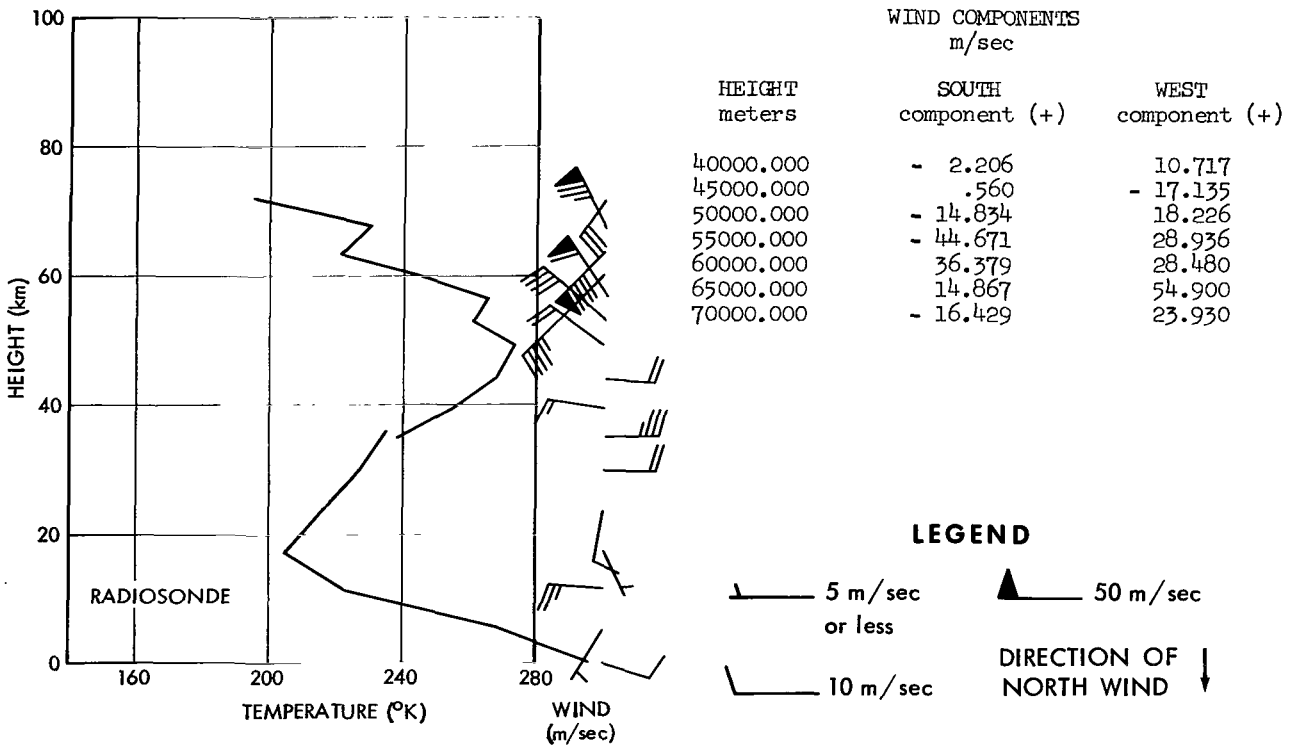


HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.3500000	05	.6036803	03	.8646547	02-	.2432330	03	.5062251	01	.2163993	01
.3600000	05	.5258139	03	.7453705	02-	.2457638	03	.5474557	01	.2697838	01
.3700000	05	.4586590	03	.6435476	02-	.2482947	03	.5865241	01	.3207062	01
.3800000	05	.4006527	03	.5564862	02-	.2508256	03	.6235040	01	.3694391	01
.3900000	05	.3504724	03	.4819256	02-	.2533564	03	.6584554	01	.4161864	01
.4000000	05	.3069978	03	.4179696	02-	.2558873	03	.6914602	01	.4604857	01
.4100000	05	.2692277	03	.3639840	02-	.2576889	03	.7205224	01	.5307257	01
.4200000	05	.2363255	03	.3173798	02-	.2594116	03	.7436793	01	.5976971	01
.4300000	05	.2076317	03	.2770051	02-	.2611343	03	.7608509	01	.6585526	01
.4400000	05	.1825844	03	.2419926	02-	.2628571	03	.7721949	01	.7128520	01
.4500000	05	.1606999	03	.2116007	02-	.2645799	03	.7779259	01	.7613643	01
.4600000	05	.1415614	03	.1851944	02-	.2663026	03	.7782447	01	.8041757	01
.4700000	05	.1247244	03	.1638687	02-	.2651635	03	.7659332	01	.9501286	01
.4800000	05	.1098338	03	.1449403	02-	.2640007	03	.7368613	01	.1007843	02
.4900000	05	.9667041	02	.1281358	02-	.2628379	03	.7011225	01	.1019421	02
.5000000	05	.8503994	02	.1132188	02-	.2616751	03	.6594382	01	.1025304	02
.5100000	05	.7476901	02	.9998884	03-	.2605123	03	.6118556	01	.1025344	02
.5200000	05	.6569746	02	.8837460	03-	.2589878	03	.5574900	01	.1037449	02
.5300000	05	.5788412	02	.7806965	03-	.2574140	03	.4968019	01	.9912381	01
.5400000	05	.5060985	02	.6891667	03-	.2558403	03	.4368064	01	.9154183	01
.5500000	05	.4436915	02	.6079252	03-	.2542665	03	.3787610	01	.8412888	01
.5600000	05	.3886781	02	.5358651	03-	.2526927	03	.3214825	01	.7685629	01
.5700000	05	.3401330	02	.4736633	03-	.2501711	03	.2636102	01	.7355522	01
.5800000	05	.2972591	02	.4182203	03-	.2476215	03	.2020144	01	.7000020	01
.5900000	05	.2594386	02	.3688072	03-	.2450719	03	.1366180	01	.6610155	01
.6000000	05	.2261176	02	.3248187	03-	.2425222	03	.6730229	00	.6177676	01
.6100000	05	.1967986	02	.2857054	03-	.2399726	03	.6012134	01-	.5707206	01
.6200000	05	.1710267	02	.2511261	03-	.2372631	03	.8293672	00	.4937569	01
.6300000	05	.1483939	02	.2204723	03-	.2344877	03	.1565522	01	.3741921	01
.6400000	05	.1285445	02	.1932691	03-	.2317124	03	.2250473	01	.2600820	01
.6500000	05	.1111627	02	.1691615	03-	.2289370	03	.2883244	01	.1507033	01
.6600000	05	.9596550	01	.1478272	03-	.2261616	03	.3461720	01	.4738843	00
.6700000	05	.8272792	01	.1284218	03-	.2244252	03	.3950490	01	.9396785	00
.6800000	05	.7124955	01	.1112133	03-	.2231945	03	.4296609	01	.3435879	01
.6900000	05	.6131599	01	.9623872	04-	.2219638	03	.4478686	01	.3761277	01
.7000000	05	.5272578	01	.8321733	04-	.2207331	03	.4490414	01	.4932507	01
.7100000	05	.4530292	01	.7190270	04-	.2195024	03	.4323682	01	.5938222	01
.7200000	05	.3889372	01	.6207836	04-	.2182717	03	.3969207	01	.6779447	01
.7300000	05	.3336550	01	.5352661	04-	.2171631	03	.3411859	01	.7499036	01
.7400000	05	.2860199	01	.4611959	04-	.2160573	03	.2634172	01	.8038541	01
.7500000	05	.2450033	01	.3970906	04-	.2149515	03	.1620890	01	.8398931	01
.7600000	05	.2097115	01	.3416487	04-	.2138457	03	.3509268	00	.8552270	01
.7700000	05	.1793674	01	.2937329	04-	.2127399	03	.1194568	01	.8494398	01
.7800000	05	.1532963	01	.2523506	04-	.2116341	03	.3042509	01	.8236140	01
.7900000	05	.1307957	01	.2189211	04-	.2081440	03	.5124351	01	.6802409	01
.8000000	05	.1112677	01	.1901830	04-	.2038242	03	.7339122	01	.4860933	01
.8100000	05	.9433280	00	.1647284	04-	.1995044	03	.9429736	01	.8854276	00
.8200000	05	.7969098	00	.1422401	04-	.1951845	03	.1115897	02	.2923361	01
.8300000	05	.6707170	00	.1224255	04-	.1908647	03	.1249111	02	.6456969	01
.8400000	05	.5625821	00	.1044968	04-	.1875604	03	.1344211	02	.9271985	01
.8500000	05	.4705354	00	.8875316	05-	.1846999	03	.1406920	02	.1156902	02
.8600000	05	.3924750	00	.7519381	05-	.1818394	03	.1438086	02	.1363732	02
.8700000	05	.3264431	00	.6354240	05-	.1789790	03	.1436489	02	.1544768	02
.8800000	05	.2708686	00	.5329119	05-	.1770767	03	.1406915	02	.1638174	02
.8900000	05	.2243540	00	.4453840	05-	.1754920	03	.1356248	02	.1689869	02
.9000000	05	.1855206	00	.3716484	05-	.1739074	03	.1286082	02	.1723925	02

# FIGURE 22

## 16 AUGUST 1964, 0553 GMT, ASCENSION ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
88.595	34.613	2.202	237.880	.343	35025.350
280.690	14.137	4.250	254.439	.686	39542.000
95.281	20.754	6.485	268.283	1.209	44527.550
307.316	19.851	13.995	272.851	2.545	49405.400
313.433	41.623	7.279	261.207	1.261	52926.150
333.120	62.097	.847	264.590	.145	56384.190
216.717	43.583	13.302	244.980	2.347	59772.450
228.375	88.645	53.813	220.629	6.895	63548.200
334.125	76.359	55.900	230.340	8.138	67756.540
212.595	30.399	19.910	194.794	2.535	71804.240

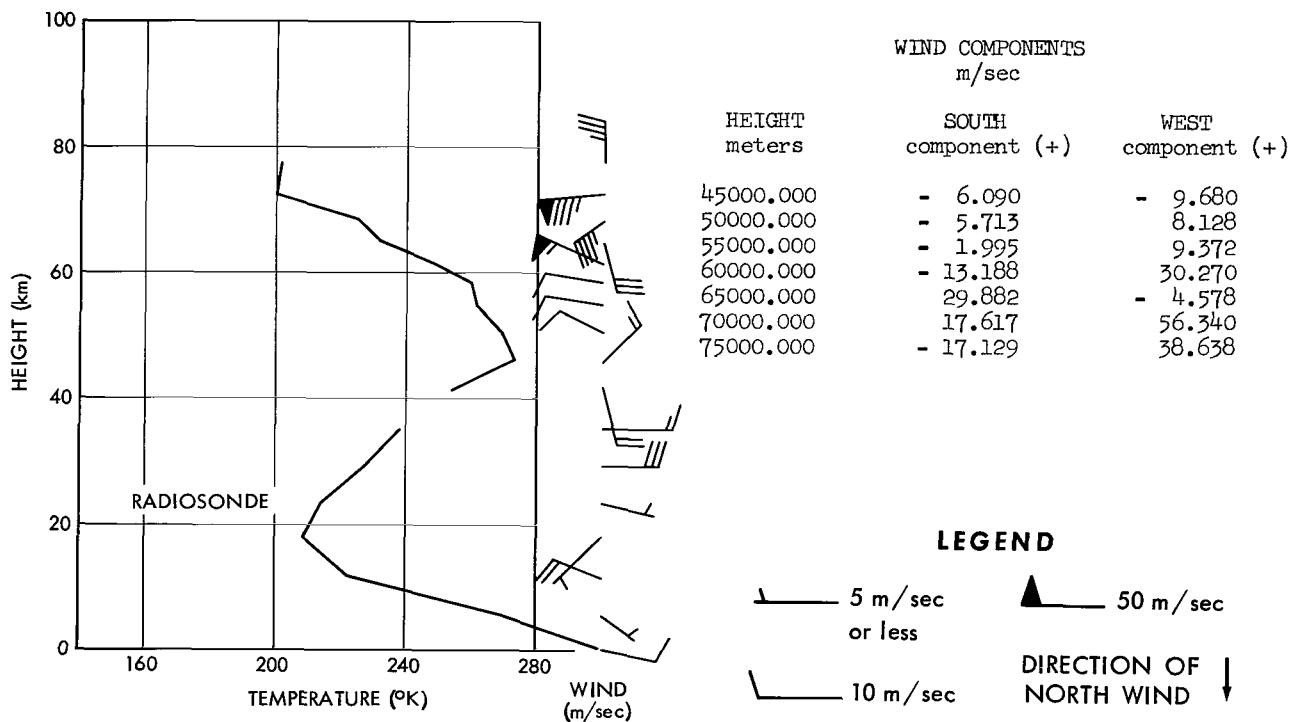


HEIGHT meters		PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)				
.3500000	05	.5724811	03	.8464546	02-	.2356219	03	.3675432-	00	.1355707	01-
.3600000	05	.4970504	03	.7171750	02-	.2414534	03	.2951963-	00	.1186959-	01
.3700000	05	.4327708	03	.6150890	02-	.2451197	03	.1101315-	00	.1356904-	01
.3800000	05	.3775956	03	.5287607	02-	.2487860	03	.1213378	00	.1471919-	01
.3900000	05	.3301267	03	.4555746	02-	.2524522	03	.3970837	00	.1533561-	01
.4000000	05	.2891663	03	.3939637	02-	.2557111	03	.7046368	00	.1403067-	01
.4100000	05	.2536927	03	.3419213	02-	.2584878	03	.1019276	01	.1075875-	01
.4200000	05	.2228914	03	.2972152	02-	.2612644	03	.1329455	01	.7562331-	00
.4300000	05	.1961056	03	.2587478	02-	.2640411	03	.1634940	01	.4394926-	00
.4400000	05	.1727769	03	.2255947	02-	.2668178	03	.1935679	01	.1307063-	00
.4500000	05	.1523981	03	.1975738	02-	.2687251	03	.2211312	01	.4800126	00
.4600000	05	.1345174	03	.1737872	02-	.2696615	03	.2419228	01	.1386837	01
.4700000	05	.1187907	03	.1529382	02-	.2705979	03	.2537468	01	.2197274	01
.4800000	05	.1049517	03	.1346551	02-	.2715344	03	.2596117	01	.2267124	01
.4900000	05	.9276810	02	.1186142	02-	.2724708	03	.2691482	01	.2007423	01
.5000000	05	.8198973	02	.1054470	02-	.2708841	03	.2771060	01	.2684751	01
.5100000	05	.7238511	02	.9424501	03-	.2675771	03	.2735128	01	.3919977	01
.5200000	05	.6380917	02	.8411882	03-	.2642701	03	.2540438	01	.5021206	01
.5300000	05	.5616659	02	.7489118	03-	.2612796	03	.2206567	01	.5437498	01
.5400000	05	.4941723	02	.6564599	03-	.2622578	03	.1908643	01	.3973889	01
.5500000	05	.4350138	02	.5757263	03-	.2632359	03	.1753821	01	.2670774	01
.5600000	05	.3831335	02	.5051872	03-	.2642141	03	.1742431	01	.1520696	01
.5700000	05	.3372727	02	.4501487	03-	.2610257	03	.1773021	01	.2025962	01
.5800000	05	.2962549	02	.4043693	03-	.2552381	03	.1675500	01	.3456316	01
.5900000	05	.2594634	02	.3623681	03-	.2494505	03	.1375875	01	.4748827	01
.6000000	05	.2265348	02	.3240949	03-	.2435123	03	.8587510	00	.5941055	01
.6100000	05	.1971027	02	.2896589	03-	.2370630	03	.9428404	01-	.7169935	01
.6200000	05	.1708449	02	.2580923	03-	.2306137	03	.9347676-	00	.7848548	01
.6300000	05	.1474926	02	.2292249	03-	.2241644	03	.2163382-	01	.7860396	01
.6400000	05	.1269644	02	.1995402	03-	.2216714	03	.3452073-	01	.5929938	01
.6500000	05	.1092917	02	.1699958	03-	.2239789	03	.4517904-	01	.2007693	01
.6600000	05	.9422790	01	.1450706	03-	.2262863	03	.5209695-	01	.1399706-	01
.6700000	05	.8136642	01	.1240049	03-	.2285938	03	.5531224-	01	.4346695-	01
.6800000	05	.7030683	01	.1073340	03-	.2282015	03	.5562873-	01	.5839111-	01
.6900000	05	.6057060	01	.9617105	04-	.2194197	03	.5639897-	01	.3828944-	01
.7000000	05	.5186836	01	.8578750	04-	.2106380	03	.6043569-	01	.1996340-	01
.7100000	05	.4412615	01	.7615738	04-	.2018562	03	.6808935-	01	.3723263-	00

# FIGURE 23

## 17 AUGUST 1964, 1255 GMT, ASCENSION ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
165.786	18.736	6.688	253.712	1.997	41423.100
44.410	15.277	12.024	272.916	6.395	45711.300
297.396	11.281	14.009	269.133	3.676	50430.200
281.946	9.576	33.084	260.761	7.246	55018.050
280.735	11.855	57.226	260.329	12.140	58332.800
296.229	53.588	43.095	248.349	10.521	61593.650
166.223	30.945	32.850	231.780	9.731	64774.200
233.223	45.655	51.719	225.439	10.499	68328.200
267.007	83.437	40.341	200.149	7.526	72281.650
1.470	36.164	23.603	200.750	4.859	77406.950

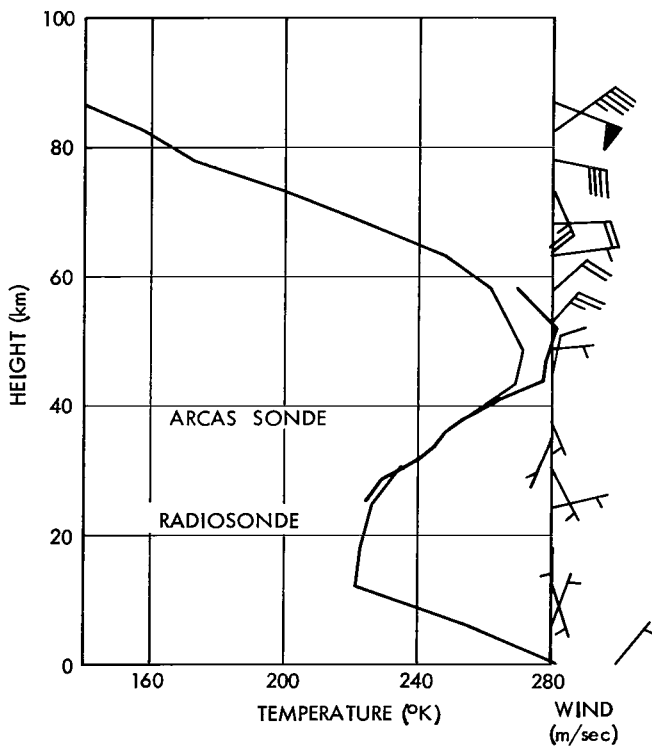


HEIGHT meters		PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)				
.3500000	05	.5925381	03	.8620463	02-	.2394660	03	.3123103	01	.1855801	01
.3600000	05	.5150837	03	.7424859	02-	.2416839	03	.3322162	01	.2300391	01
.3700000	05	.4483466	03	.6404083	02-	.2439018	03	.3484986	01	.2703621	01
.3800000	05	.3907637	03	.5531283	02-	.2461198	03	.3612930	01	.3068682	01
.3900000	05	.3410111	03	.4783922	02-	.2483377	03	.3707240	01	.3398159	01
.4000000	05	.2979662	03	.4143057	02-	.2505556	03	.3769276	01	.3687904	01
.4100000	05	.2606754	03	.3592746	02-	.2527736	03	.3799735	01	.3944756	01
.4200000	05	.2284047	03	.3104719	02-	.2562955	03	.3835914	01	.3670324	01
.4300000	05	.2005466	03	.2679227	02-	.2607738	03	.3936541	01	.3090800	01
.4400000	05	.1764837	03	.2317949	02-	.2652521	03	.4122662	01	.2614075	01
.4500000	05	.1556469	03	.2010336	02-	.2697304	03	.4390234	01	.2239522	01
.4600000	05	.1375122	03	.1756869	02-	.2726844	03	.4699449	01	.2495109	01
.4700000	05	.1215547	03	.1557573	02-	.2718827	03	.4923317	01	.4081062	01
.4800000	05	.1074139	03	.1380447	02-	.2710809	03	.5003072	01	.4841443	01
.4900000	05	.9488713	02	.1223074	02-	.2702792	03	.5037189	01	.5183555	01
.5000000	05	.8379353	02	.1083294	02-	.2694775	03	.5032058	01	.5491643	01
.5100000	05	.7396239	02	.9611336	03-	.2680929	03	.4973736	01	.5980133	01
.5200000	05	.6523833	02	.8535747	03-	.2662682	03	.4837061	01	.6567647	01
.5300000	05	.5749593	02	.7574643	03-	.2644436	03	.4625561	01	.6641577	01
.5400000	05	.5063008	02	.6716464	03-	.2626189	03	.4409781	01	.6379213	01
.5500000	05	.4454637	02	.5950759	03-	.2607943	03	.4198133	01	.6121432	01
.5600000	05	.3917601	02	.5236589	03-	.2606332	03	.4033243	01	.5232712	01
.5700000	05	.3445193	02	.4607436	03-	.2605028	03	.3959689	01	.4427290	01
.5800000	05	.3029685	02	.4053786	03-	.2603723	03	.3979593	01	.3714532	01
.5900000	05	.2662667	02	.3597173	03-	.2578776	03	.4034002	01	.3982591	01
.6000000	05	.2336565	02	.3202242	03-	.2542037	03	.4029493	01	.4675792	01
.6100000	05	.2046590	02	.2845965	03-	.2505298	03	.3931579	01	.5296912	01
.6200000	05	.1788866	02	.2530997	03-	.2462319	03	.3728243	01	.5762268	01
.6300000	05	.1559560	02	.2254253	03-	.2410226	03	.3450678	01	.6072514	01
.6400000	05	.1355638	02	.2002782	03-	.2358132	03	.3087193	01	.6321736	01
.6500000	05	.1175029	02	.1769237	03-	.2313772	03	.2655779	01	.6164869	01
.6600000	05	.1016568	02	.1542539	03-	.2295931	03	.2263596	01	.4841901	01
.6700000	05	.8785239	01	.1343511	03-	.2278089	03	.1999172	01	.3633972	01
.6800000	05	.7583890	01	.1168945	03-	.2260247	03	.1867880	01	.2548079	01
.6900000	05	.6532752	01	.1029162	03-	.2211416	03	.1770683	01	.2916247	01
.7000000	05	.5605856	01	.9094485	04-	.2147445	03	.1546730	01	.3895428	01
.7100000	05	.4788496	01	.8006989	04-	.2083474	03	.1129379	01	.4745934	01
.7200000	05	.4070461	01	.7021942	04-	.2019503	03	.5019933	00	.5445654	01
.7300000	05	.3448991	01	.6000882	04-	.2002328	03	.1568517-	00	.3703073	01
.7400000	05	.2920652	01	.5078652	04-	.2003501	03	.5762552-	00	.1267224	01
.7500000	05	.2473605	01	.4298776	04-	.2004673	03	.6743961-	00	.8356106-	00
.7600000	05	.2095313	01	.3639230	04-	.2005846	03	.4365400-	00	.2590200-	01
.7700000	05	.1775123	01	.3081309	04-	.2007018	03	.1480078	00	.4009042-	01

# FIGURE 24

## 18 AUGUST 1964, 0115 GMT, CHURCHILL

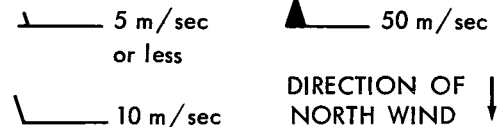
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
152.746	3.502	1.568	252.570	.465	38022.000
6.877	8.582	2.780	268.518	.913	43712.650
78.395	4.143	3.202	270.891	.691	48599.600
39.100	25.666	2.325	266.584	.459	53328.050
45.024	18.511	2.543	262.306	.401	57896.450
83.074	6.544	2.887	248.481	.249	62865.350
86.027	21.575	4.725	224.840	.316	68158.790
149.201	25.773	4.905	199.700	.273	73181.650
100.364	41.709	5.234	172.516	.181	77984.100
55.872	44.696	6.006	158.420	.185	82642.400
114.125	49.385	11.718	137.652	.179	86958.350



### WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.000	- .930	- 1.404
45000.000	- 6.495	- 1.826
50000.000	- 6.485	- 7.650
55000.000	- 17.416	- 15.055
60000.000	- 7.879	- 10.301
65000.000	- 1.074	- 12.556
70000.000	7.168	- 18.471
75000.000	16.597	- 23.734
80000.000	- 6.596	- 39.285
85000.000	- .352	- 41.409

### LEGEND



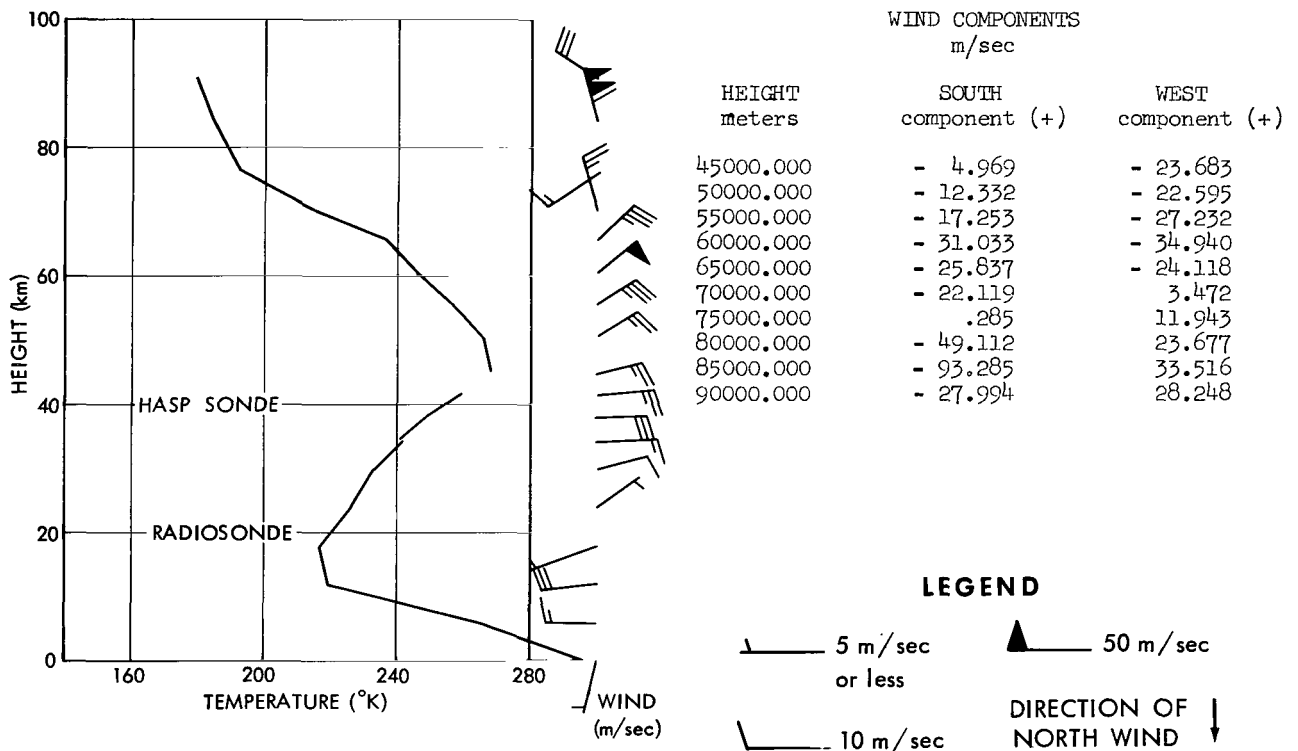


HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.3800000	05	.4268190	03	.5883094	02-	.2527529	03	.1317316	02	.9624235	01
.3900000	05	.3736504	03	.5098645	02-	.2553106	03	.1363339	02	.1020049	02
.4000000	05	.3275732	03	.4421364	02-	.2581132	03	.1408015	02	.1065306	02
.4100000	05	.2875981	03	.3840112	02-	.2609157	03	.1452023	02	.1110149	02
.4200000	05	.2528629	03	.3340434	02-	.2637183	03	.1495491	02	.1154115	02
.4300000	05	.2226344	03	.2910176	02-	.2665209	03	.1538393	02	.1197722	02
.4400000	05	.1962579	03	.2544990	02-	.2686576	03	.1578910	02	.1266501	02
.4500000	05	.1731200	03	.2240899	02-	.2691431	03	.1610924	02	.1396527	02
.4600000	05	.1527501	03	.1973667	02-	.2696285	03	.1630132	02	.1514308	02
.4700000	05	.1348128	03	.1738770	02-	.2701139	03	.1636738	02	.1618913	02
.4800000	05	.1190129	03	.1532236	02-	.2705994	03	.1634174	02	.1636939	02
.4900000	05	.1050773	03	.1353188	02-	.2705258	03	.1631738	02	.1637328	02
.5000000	05	.9275719	02	.1198565	02-	.2696151	03	.1626767	02	.1671683	02
.5100000	05	.8185025	02	.1061215	02-	.2687044	03	.1616885	02	.1701567	02
.5200000	05	.7219792	02	.9392528	03-	.2677936	03	.1602103	02	.1726444	02
.5300000	05	.6365919	02	.8309951	03-	.2668829	03	.1584087	02	.1699380	02
.5400000	05	.5610816	02	.7349810	03-	.2659549	03	.1570673	02	.1641051	02
.5500000	05	.4943282	02	.6498264	03-	.2650185	03	.1562800	02	.1588525	02
.5600000	05	.4353386	02	.5743101	03-	.2640820	03	.1560568	02	.1541139	02
.5700000	05	.3832306	02	.5073669	03-	.2631456	03	.1564094	02	.1499444	02
.5800000	05	.3372043	02	.4483530	03-	.2620180	03	.1572942	02	.1470935	02
.5900000	05	.2964327	02	.3983725	03-	.2592358	03	.1582028	02	.1515654	02
.6000000	05	.2602392	02	.3535267	03-	.2564535	03	.1586477	02	.1556182	02
.6100000	05	.2281499	02	.3133338	03-	.2536713	03	.1586095	02	.1592932	02
.6200000	05	.1997356	02	.2773524	03-	.2508890	03	.1581762	02	.1589671	02
.6300000	05	.1745975	02	.2453887	03-	.2478800	03	.1581615	02	.1546619	02
.6400000	05	.1523173	02	.2180027	03-	.2434139	03	.1582711	02	.1573114	02
.6500000	05	.1325504	02	.1932574	03-	.2389478	03	.1580199	02	.1596607	02
.6600000	05	.1150517	02	.1709395	03-	.2344817	03	.1573842	02	.1618201	02
.6700000	05	.9959607	01	.1508492	03-	.2300156	03	.1563392	02	.1636009	02
.6800000	05	.8597706	01	.1328002	03-	.2255495	03	.1548560	02	.1650166	02
.6900000	05	.7399449	01	.1168404	03-	.2206300	03	.1527255	02	.1684038	02
.7000000	05	.6346784	01	.1025446	03-	.2156249	03	.1496819	02	.1714703	02
.7100000	05	.5424552	01	.8972694	04-	.2106198	03	.1456239	02	.1737912	02
.7200000	05	.4619081	01	.7826358	04-	.2056147	03	.1404774	02	.1752524	02
.7300000	05	.3917862	01	.6803866	04-	.2006095	03	.1341626	02	.1757969	02
.7400000	05	.3308708	01	.5909223	04-	.1950681	03	.1263381	02	.1782862	02
.7500000	05	.2780688	01	.5114617	04-	.1894076	03	.1165631	02	.1798423	02
.7600000	05	.2324766	01	.4407749	04-	.1837471	03	.1046643	02	.1798044	02
.7700000	05	.1932846	01	.3781152	04-	.1780866	03	.9046327	01	.1779290	02
.7800000	05	.1597573	01	.3227084	04-	.1724680	03	.7385430	01	.1734852	02
.7900000	05	.1314206	01	.2702096	04-	.1694420	03	.5626617	01	.1503174	02
.8000000	05	.1077371	01	.2255425	04-	.1664159	03	.3933113	01	.1282768	02
.8100000	05	.8800556	00	.1876477	04-	.1633899	03	.2089896	01	.1290474	02
.8200000	05	.7162102	00	.1555938	04-	.1603638	03	.9761590-	01-	.1258597	02
.8300000	05	.5803763	00	.1290331	04-	.1566991	03	.2660626-	01	.1222071	02
.8400000	05	.4676229	00	.1072587	04-	.1518873	03	.5705981-	01	.1216009	02
.8500000	05	.3741893	00	.8863583	05-	.1470754	03	.9287445-	01	.1142154	02
.8600000	05	.2972333	00	.7278837	05-	.1422636	03	.1337587-	02	.1000208	02

# FIGURE 25

## 18 AUGUST 1964, 0125 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
78.907	24.182	3.150	267.709	1.281	44785.150
59.540	26.062	3.349	265.599	1.176	50597.200
57.428	33.130	5.165	256.081	1.650	55634.250
47.739	48.207	6.155	246.130	1.776	60458.600
42.126	33.647	6.651	237.127	1.907	65608.450
343.240	22.749	13.441	214.437	3.480	70520.700
247.763	14.249	9.207	192.960	3.068	76036.740
341.862	110.765	21.338	185.462	4.206	84082.890
302.199	32.357	30.886	179.562	16.290	90823.390

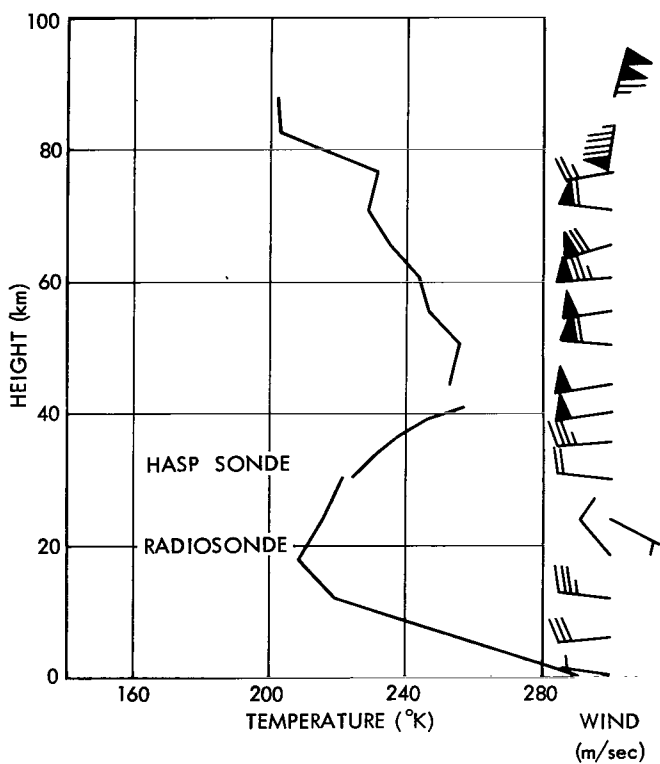


HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.400000	05	.3148518	03	.4294132	02-	.2554400	03	.9649826	01	.7468854	01
.410000	05	.2761059	03	.3728273	02-	.2580039	03	.9944117	01	.7865801	01
.420000	05	.2424527	03	.3241637	02-	.2605678	03	.1022229	02	.8242202	01
.430000	05	.2131809	03	.2822496	02-	.2631317	03	.1048448	02	.8603481	01
.440000	05	.1876846	03	.2460949	02-	.2656956	03	.1073103	02	.8944565	01
.450000	05	.1654219	03	.2153354	02-	.2676307	03	.1094624	02	.9512995	01
.460000	05	.1458593	03	.1901278	02-	.2672677	03	.1105474	02	.1091993	02
.470000	05	.1285934	03	.1678497	02-	.2669048	03	.1099897	02	.1216150	02
.480000	05	.1133564	03	.1481626	02-	.2665418	03	.1081215	02	.1252576	02
.490000	05	.9991134	02	.1307673	02-	.2661789	03	.1059883	02	.1245902	02
.500000	05	.8804941	02	.1153994	02-	.2658160	03	.1036664	02	.1237646	02
.510000	05	.7757417	02	.1020457	02-	.2648381	03	.1009888	02	.1252149	02
.520000	05	.6830087	02	.9049276	03-	.2629484	03	.9758529	01	.1297899	02
.530000	05	.6008331	02	.8018144	03-	.2610587	03	.9333824	01	.1288552	02
.540000	05	.5280734	02	.7098545	03-	.2591690	03	.8899748	01	.1243084	02
.550000	05	.4637052	02	.6279070	03-	.2572793	03	.8465009	01	.1197630	02
.560000	05	.4068033	02	.5550690	03-	.2553264	03	.8028032	01	.1154477	02
.570000	05	.3565296	02	.4904343	03-	.2532637	03	.7583857	01	.1115667	02
.580000	05	.3121449	02	.4329053	03-	.2512011	03	.7128973	01	.1075714	02
.590000	05	.2729977	02	.3817476	03-	.2491384	03	.6663879	01	.1035083	02
.600000	05	.2385042	02	.3362978	03-	.2470758	03	.6187805	01	.9929969	01
.610000	05	.2081518	02	.2957654	03-	.2451834	03	.5705356	01	.9429261	01
.620000	05	.1814857	02	.2597272	03-	.2434351	03	.5235346	01	.8531686	01
.630000	05	.1580862	02	.2278763	03-	.2416868	03	.4863717	01	.7225842	01
.640000	05	.1375717	02	.1997502	03-	.2399386	03	.4614113	01	.6041444	01
.650000	05	.1196029	02	.1749347	03-	.2381903	03	.4490492	01	.4971332	01
.660000	05	.1038437	02	.1537387	03-	.2353180	03	.4463461	01	.4491728	01
.670000	05	.8996007	01	.1358509	03-	.2306989	03	.4446258	01	.4790873	01
.680000	05	.7771032	01	.1197498	03-	.2260799	03	.4381589	01	.5052944	01
.690000	05	.6692916	01	.1052874	03-	.2214608	03	.4265809	01	.5287452	01
.700000	05	.5746526	01	.9232527	04-	.2168418	03	.4094879	01	.5472416	01
.710000	05	.4918650	01	.8061226	04-	.2125705	03	.3878125	01	.5455474	01
.720000	05	.4197575	01	.7007809	04-	.2086769	03	.3640505	01	.5233427	01
.730000	05	.3571709	01	.6076306	04-	.2047833	03	.3395633	01	.5006511	01
.740000	05	.3029910	01	.5254485	04-	.2008897	03	.3143071	01	.4773288	01
.750000	05	.2562168	01	.4531145	04-	.1969962	03	.2881797	01	.4524697	01
.760000	05	.2159507	01	.3896052	04-	.1931026	03	.2613802	01	.4284041	01
.770000	05	.1816250	01	.3294523	04-	.1920619	03	.2468274	01	.2633126	01
.780000	05	.1526277	01	.2782035	04-	.1911300	03	.2593068	01	.1164920	01
.790000	05	.1281580	01	.2347456	04-	.1901981	03	.3004310	01	.6572058-	01-
.800000	05	.1075247	01	.1979215	04-	.1892663	03	.3728217	01	.9897069-	00
.810000	05	.9014015	00	.1667427	04-	.1883344	03	.4566106	01	.3265534	00
.820000	05	.7550447	00	.1403639	04-	.1874025	03	.5319313	01	.1565792	01
.830000	05	.6319275	00	.1180633	04-	.1864706	03	.5985426	01	.2663776	01
.840000	05	.5284434	00	.9922523	05-	.1855387	03	.6558200	01	.3759533	01
.850000	05	.4415440	00	.8330330	05-	.1846588	03	.7040984	01	.4718167	01
.860000	05	.3686393	00	.6988002	05-	.1837836	03	.7434286	01	.5606821	01
.870000	05	.3075246	00	.5857394	05-	.1829084	03	.7737035	01	.6420678	01
.880000	05	.2563331	00	.4905828	05-	.1820331	03	.7947905	01	.7137568	01
.890000	05	.2134879	00	.4105575	05-	.1811579	03	.8062292	01	.7757888	01
.900000	05	.1776566	00	.3433092	05-	.1802827	03	.8076785	01	.8299454	01

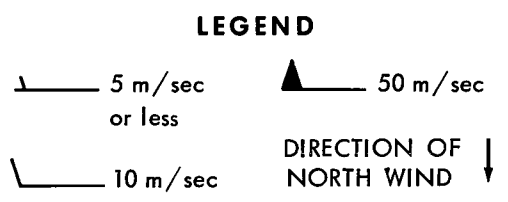
# FIGURE 26

## 5 NOVEMBER 1964, 1700 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
260.686	48.951	3.925	252.298	1.269	44366.500
275.063	58.001	6.478	255.442	1.716	50379.550
261.419	50.669	12.294	246.364	3.086	55565.550
264.221	74.051	15.234	243.015	3.864	60537.650
256.962	71.181	15.714	235.832	3.914	65841.600
277.414	61.621	24.922	228.516	6.476	70917.600
259.490	25.407	24.775	230.798	6.076	76660.450
184.978	93.554	28.356	202.915	4.588	82931.950
10.367	115.711	44.911	202.370	6.764	87977.900



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
45000.000	6.548	49.303
50000.000	- 4.295	57.177
55000.000	6.177	50.939
60000.000	7.468	71.125
65000.000	14.694	70.032
70000.000	- 3.611	62.595
75000.000	.995	35.426
80000.000	51.796	16.002
85000.000	8.354	- 3.743

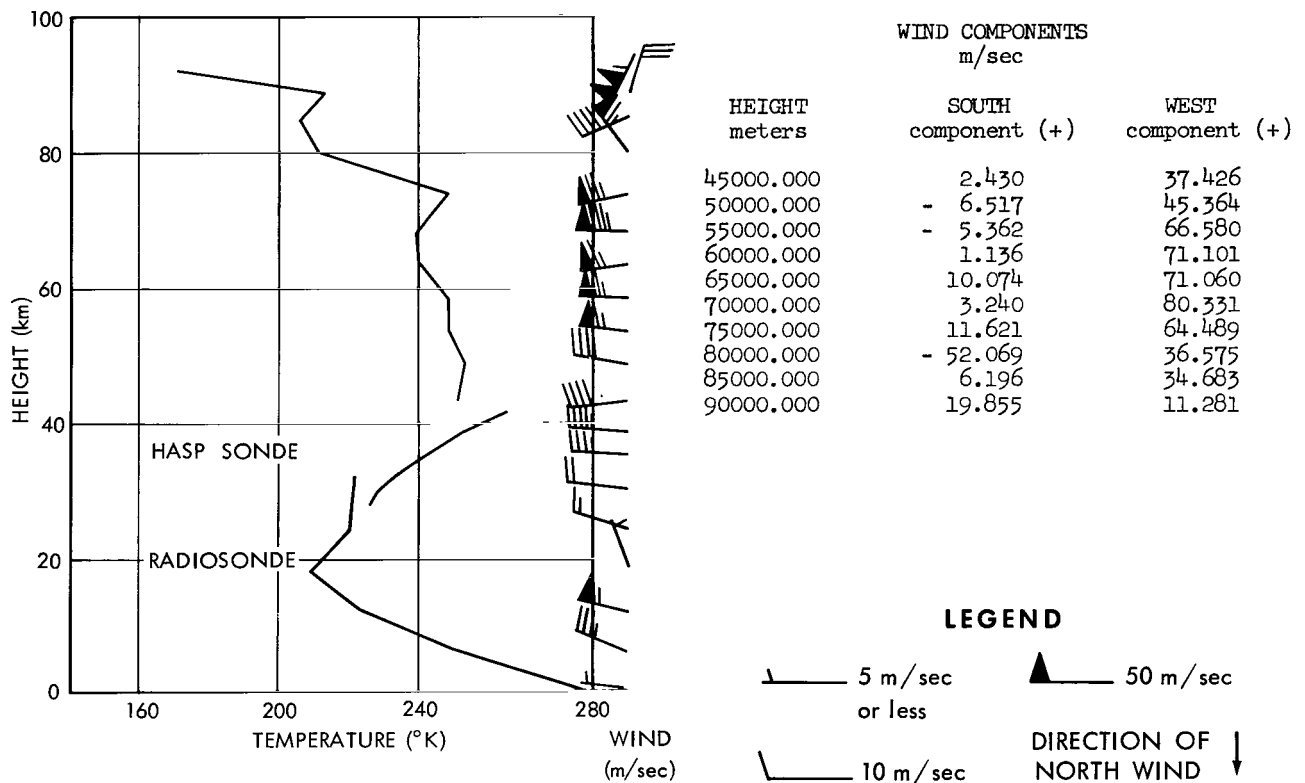


HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)						
.320000	05	.8393136	03	.1309175	01-	.2233494	03	.5595711-	01	.3417559-	01
.330000	05	.7220236	03	.1114543	01-	.2256902	03	.5901727-	01	.3694566-	01
.340000	05	.6221187	03	.9504675	02-	.2280311	03	.6224388-	01	.3870828-	01
.350000	05	.5368780	03	.8119029	02-	.2303720	03	.6563771-	01	.4068938-	01
.360000	05	.4640286	03	.6946764	02-	.2327129	03	.6919123-	01	.4286845-	01
.370000	05	.4016681	03	.5953307	02-	.2350537	03	.7289111-	01	.4525574-	01
.380000	05	.3482012	03	.5109961	02-	.2373946	03	.7672727-	01	.4782135-	01
.390000	05	.3022882	03	.4392857	02-	.2397355	03	.8069064-	01	.5054197-	01
.400000	05	.2628014	03	.3782105	02-	.2420764	03	.8477144-	01	.5345619-	01
.410000	05	.2287906	03	.3261103	02-	.2444172	03	.8896650-	01	.5650300-	01
.420000	05	.1994531	03	.2815967	02-	.2467581	03	.9325893-	01	.5971444-	01
.430000	05	.1741104	03	.2435067	02-	.2490990	03	.9764460-	01	.6303942-	01
.440000	05	.1521874	03	.2108641	02-	.2514398	03	.10219182-	02	.6286845-	01
.450000	05	.1331559	03	.1836265	02-	.2526291	03	.1069416-	02	.6613199-	01
.460000	05	.1165620	03	.1604109	02-	.2531520	03	.1125169-	02	.6416827-	01
.470000	05	.1020683	03	.1401753	02-	.2536749	03	.1189692-	02	.6331243-	01
.480000	05	.8940497	02	.1225315	02-	.2541979	03	.1260169-	02	.6940421-	01
.490000	05	.7833729	02	.1071426	02-	.2547208	03	.1328298-	02	.7858085-	01
.500000	05	.6866107	02	.9371595	03-	.2552438	03	.1393591-	02	.8738950-	01
.510000	05	.6017672	02	.8242226	03-	.2543561	03	.1459206-	02	.9116467-	01
.520000	05	.5270676	02	.7269119	03-	.2526054	03	.1530097-	02	.9246028-	01
.530000	05	.4612345	02	.6405566	03-	.2508548	03	.1606898-	02	.9817575-	01
.540000	05	.4032642	02	.5639841	03-	.2491042	03	.1683850-	02	.1067297-	02
.550000	05	.3522610	02	.4961403	03-	.2473535	03	.1760285-	02	.1152199-	02
.560000	05	.3074658	02	.4353061	03-	.2460709	03	.1835140-	02	.1252238-	02
.570000	05	.2682329	02	.3808030	03-	.2453973	03	.1905995-	02	.1369121-	02
.580000	05	.2339282	02	.3330155	03-	.2447238	03	.1971521-	02	.1479928-	02
.590000	05	.2039426	02	.2911299	03-	.2440503	03	.2031685-	02	.1584381-	02
.600000	05	.1777410	02	.2544291	03-	.2433768	03	.2086541-	02	.1683150-	02
.610000	05	.1548395	02	.2225502	03-	.2423886	03	.2136812-	02	.1765940-	02
.620000	05	.1348044	02	.1948424	03-	.2410343	03	.2183301-	02	.1858159-	02
.630000	05	.1172752	02	.1704639	03-	.2396802	03	.2220755-	02	.1978925-	02
.640000	05	.1019494	02	.1490292	03-	.2383260	03	.2247431-	02	.2088485-	02
.650000	05	.8855948	01	.1301957	03-	.2369718	03	.2263047-	02	.2187776-	02
.660000	05	.7686922	01	.1136654	03-	.2356038	03	.2267198-	02	.2274488-	02
.670000	05	.6666859	01	.9918869	04-	.2341625	03	.2259583-	02	.2348912-	02
.680000	05	.5777337	01	.8648683	04-	.2327212	03	.2239799-	02	.2412770-	02
.690000	05	.5002271	01	.7535073	04-	.2312799	03	.2207196-	02	.2464927-	02
.700000	05	.4327481	01	.6559494	04-	.2298386	03	.2161028-	02	.2506432-	02
.710000	05	.3740656	01	.5701997	04-	.2285488	03	.2100020-	02	.2540754-	02
.720000	05	.3232644	01	.4919066	04-	.2289462	03	.2018419-	02	.2613238-	02
.730000	05	.2794455	01	.4244914	04-	.2293435	03	.1910470-	02	.2664233-	02
.740000	05	.2416384	01	.3664257	04-	.2297408	03	.1774236-	02	.2693551-	02
.750000	05	.2090081	01	.3163972	04-	.2301381	03	.1607449-	02	.2701333-	02
.760000	05	.1808378	01	.2732811	04-	.2305355	03	.1407088-	02	.2685194-	02
.770000	05	.1564288	01	.2376803	04-	.2292882	03	.1174677-	02	.2595628-	02
.780000	05	.1350744	01	.2092923	04-	.2248423	03	.9205871-	01	.2389371-	02
.790000	05	.1162991	01	.1838358	04-	.2203964	03	.6526982-	01	.2173869-	02
.800000	05	.9983337	00	.1610570	04-	.2159505	03	.3691515-	01	.1943119-	02
.810000	05	.8543122	00	.1407198	04-	.2115045	03	.8964414-	00	.1533107-	02
.820000	05	.7286878	00	.1226045	04-	.2070586	03	.1642859	01	.1128474-	02
.830000	05	.6194981	00	.1063651	04-	.2029079	03	.3900813	01	.7508599-	01
.840000	05	.5257975	00	.9032521	05-	.2027999	03	.6024664	01	.5547195-	01
.850000	05	.4462529	00	.7670135	05-	.2026918	03	.8182525	01	.3580963-	01
.860000	05	.3787301	00	.6513033	05-	.2025838	03	.1037510	02	.1571191-	01
.870000	05	.3214110	00	.5530265	05-	.2024757	03	.1260196	02	.4772120	00

# FIGURE 27

## 6 NOVEMBER 1964, 0002 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
258.131	37.501	4.821	250.334	1.475	42950.050
280.331	39.370	7.598	253.291	1.933	48682.100
274.497	63.922	15.432	248.982	4.060	53648.940
274.840	74.063	11.606	248.076	3.009	58416.000
255.004	67.438	10.040	229.870	2.825	63499.150
274.385	84.579	17.373	229.199	4.346	68365.850
249.625	75.553	18.806	238.142	3.861	73882.900
325.428	64.445	14.621	211.536	4.124	79921.150
257.191	37.917	40.550	206.763	6.847	84789.800
8.275	32.081	15.481	213.118	6.551	88607.740
199.804	105.504	39.420	171.558	4.029	92142.550

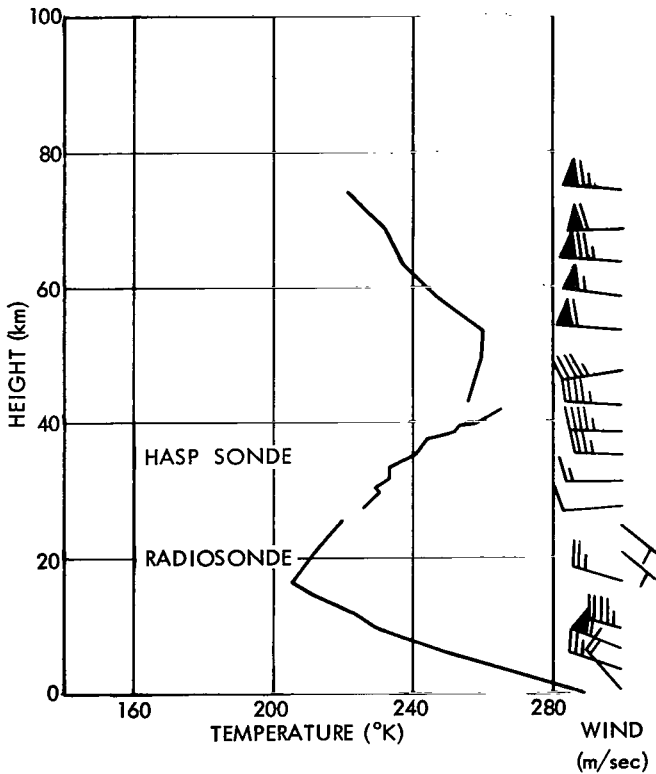


HEIGHT meters		PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)					
.2700000	05	.1773704	04	.2857711	01-	.2162325	03	.5652543-	01	.2460538-	01
.2800000	05	.1517858	04	.2421561	01-	.2183705	03	.6084150-	01	.3431104-	01
.2900000	05	.1300952	04	.2055390	01-	.2205085	03	.6434578-	01	.4302539-	01
.3000000	05	.1116756	04	.1747433	01-	.2226465	03	.6706102-	01	.5082391-	01
.3100000	05	.9600847	03	.1487994	01-	.2247845	03	.6901781-	01	.5775421-	01
.3200000	05	.8266136	03	.1269063	01-	.2269225	03	.7024189-	01	.6376774-	01
.3300000	05	.7127301	03	.1084009	01-	.2290605	03	.7112904-	01	.6532889-	01
.3400000	05	.6154119	03	.9273400	02-	.2311985	03	.7235341-	01	.6209920-	01
.3500000	05	.5321243	03	.7944901	02-	.2333365	03	.7391091-	01	.6126357-	01
.3600000	05	.4607398	03	.6816634	02-	.2354745	03	.7578837-	01	.6079794-	01
.3700000	05	.3994692	03	.5856958	02-	.2376125	03	.7796631-	01	.6070743-	01
.3800000	05	.3468048	03	.5039456	02-	.2397505	03	.8043004-	01	.6095924-	01
.3900000	05	.3014748	03	.4342040	02-	.2418885	03	.8316447-	01	.6152543-	01
.4000000	05	.2624043	03	.3746209	02-	.2440266	03	.8615468-	01	.6243989-	01
.4100000	05	.2286837	03	.3236443	02-	.2461646	03	.8939188-	01	.6363753-	01
.4200000	05	.1995422	03	.2799701	02-	.2483026	03	.9285402-	01	.6514586-	01
.4300000	05	.1743213	03	.2425742	02-	.2503595	03	.9655115-	01	.6662734-	01
.4400000	05	.1524005	03	.2116344	02-	.2508755	03	.1008609-	02	.6310846-	01
.4500000	05	.1332785	03	.1847004	02-	.2513914	03	.1061192-	02	.6067007-	01
.4600000	05	.1165929	03	.1612462	02-	.2519073	03	.1122821-	02	.5929534-	01
.4700000	05	.1020282	03	.1408150	02-	.2524232	03	.1193155-	02	.5903755-	01
.4800000	05	.8931090	02	.1230117	02-	.2529392	03	.1269365-	02	.6575720-	01
.4900000	05	.7819536	02	.1076694	02-	.2530153	03	.13444009-	02	.7405019-	01
.5000000	05	.6845070	02	.9457602	03-	.2521476	03	.1419961-	02	.7901409-	01
.5100000	05	.5989536	02	.8304114	03-	.2512800	03	.1499139-	02	.8434053-	01
.5200000	05	.5233730	02	.7288335	03-	.2504124	03	.1581434-	02	.9006125-	01
.5300000	05	.4580107	02	.6394185	03-	.2495448	03	.1665562-	02	.9977810-	01
.5400000	05	.4002836	02	.5602409	03-	.2489151	03	.1745316-	02	.1126583-	02
.5500000	05	.3497694	02	.4899147	03-	.2487251	03	.1818565-	02	.1263223-	02
.5600000	05	.3056106	02	.4283896	03-	.2483350	03	.1884406-	02	.1391230-	02
.5700000	05	.2670098	02	.3745673	03-	.2483450	03	.1942902-	02	.1510452-	02
.5800000	05	.2332712	02	.3274886	03-	.2481550	03	.1994071-	02	.1621333-	02
.5900000	05	.2036730	02	.2884592	03-	.2459842	03	.2042220-	02	.1661583-	02
.6000000	05	.1775537	02	.2551824	03-	.2424025	03	.2094883-	02	.1658525-	02
.6100000	05	.1544747	02	.2253427	03-	.2388208	03	.2155338-	02	.1662621-	02
.6200000	05	.1341190	02	.1986273	03-	.2352391	03	.2223046-	02	.1699999-	02
.6300000	05	.1161986	02	.1747483	03-	.2316574	03	.2292168-	02	.1777322-	02
.6400000	05	.1005074	02	.1523720	03-	.2298005	03	.2357083-	02	.1911024-	02
.6500000	05	.8688402	01	.1317977	03-	.2296626	03	.2409423-	02	.2091348-	02
.6600000	05	.7510357	01	.1139959	03-	.2295248	03	.2444818-	02	.2252029-	02
.6700000	05	.6491818	01	.9859523	04-	.2293869	03	.2462811-	02	.2394690-	02
.6800000	05	.5611138	01	.8527105	04-	.2292490	03	.2463041-	02	.2519426-	02
.6900000	05	.4851486	01	.7341377	04-	.2302266	03	.2442097-	02	.2658623-	02
.7000000	05	.4198300	01	.6308542	04-	.2318476	03	.2395031-	02	.2793120-	02
.7100000	05	.3636880	01	.5426984	04-	.2334687	03	.2319188-	02	.2900521-	02
.7200000	05	.3153807	01	.4673687	04-	.2350897	03	.2213073-	02	.2981714-	02
.7300000	05	.2737698	01	.4029263	04-	.2367108	03	.2074775-	02	.3036907-	02
.7400000	05	.2378396	01	.3486970	04-	.2376260	03	.1903555-	02	.3047056-	02
.7500000	05	.2064174	01	.3083464	04-	.2332198	03	.1711477-	02	.2887049-	02
.7600000	05	.1786710	01	.2720384	04-	.2288136	03	.1510050-	02	.2718456-	02
.7700000	05	.1542278	01	.2394327	04-	.2244075	03	.1298854-	02	.2541036-	02
.7800000	05	.1327469	01	.2102119	04-	.2200013	03	.1077038-	02	.2355930-	02
.7900000	05	.1139171	01	.1840807	04-	.2155951	03	.8441488-	01	.2163445-	02
.8000000	05	.9746432	00	.1605748	04-	.2114591	03	.5976921-	01	.1967241-	02
.8100000	05	.8323455	00	.1377697	04-	.2104787	03	.3444671-	01	.1710608-	02
.8200000	05	.7103349	00	.1181247	04-	.2094983	03	.9171455-	00	.1452625-	02
.8300000	05	.6057889	00	.1012129	04-	.2085179	03	.1601520	01	.1198875-	02
.8400000	05	.5162677	00	.8666353	05-	.2075376	03	.4103029	01	.9376194-	01
.8500000	05	.4397588	00	.7397159	05-	.2071132	03	.6608189	01	.7012450-	01
.8600000	05	.3747866	00	.6254005	05-	.2087777	03	.9225848	01	.5485785-	01
.8700000	05	.3198353	00	.5294826	05-	.2104422	03	.1204991	02	.3800388-	01
.8800000	05	.2732934	00	.4488860	05-	.2121067	03	.1509112	02	.1968533-	01
.8900000	05	.2333691	00	.3899263	05-	.2085062	03	.1812569	02	.2342874-	01
.9000000	05	.1980884	00	.3507563	05-	.1967486	03	.2050637	02	.1064868	02
.9100000	05	.1664602	00	.3134857	05-	.1849910	03	.2152152	02	.2066427	02
.9200000	05	.1383005	00	.2781315	05-	.1732335	03	.2079704	02	.3015044	02

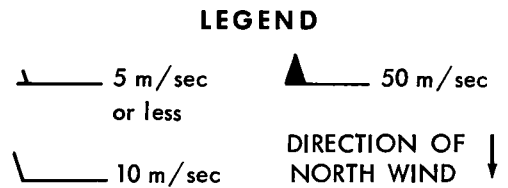
# FIGURE 28

## 6 NOVEMBER 1964, 0520 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec ( $\pm$ )	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin ( $\pm$ )	HEIGHT meters
276.243	46.690	4.247	256.141	7.435	42483.900
249.282	44.484	9.500	258.614	7.238	48367.650
279.247	57.603	14.991	259.865	9.515	53462.250
285.533	55.991	15.124	247.897	6.593	58348.800
279.544	73.250	16.425	237.236	6.228	63574.440
266.688	57.842	15.992	231.923	5.712	68591.690
278.564	64.228	13.360	221.065	4.370	74260.940



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
45000.000	3.824	44.358
50000.000	7.729	46.493
55000.000	- 11.062	55.940
60000.000	- 14.094	59.726
65000.000	- 7.744	68.118
70000.000	.136	59.178



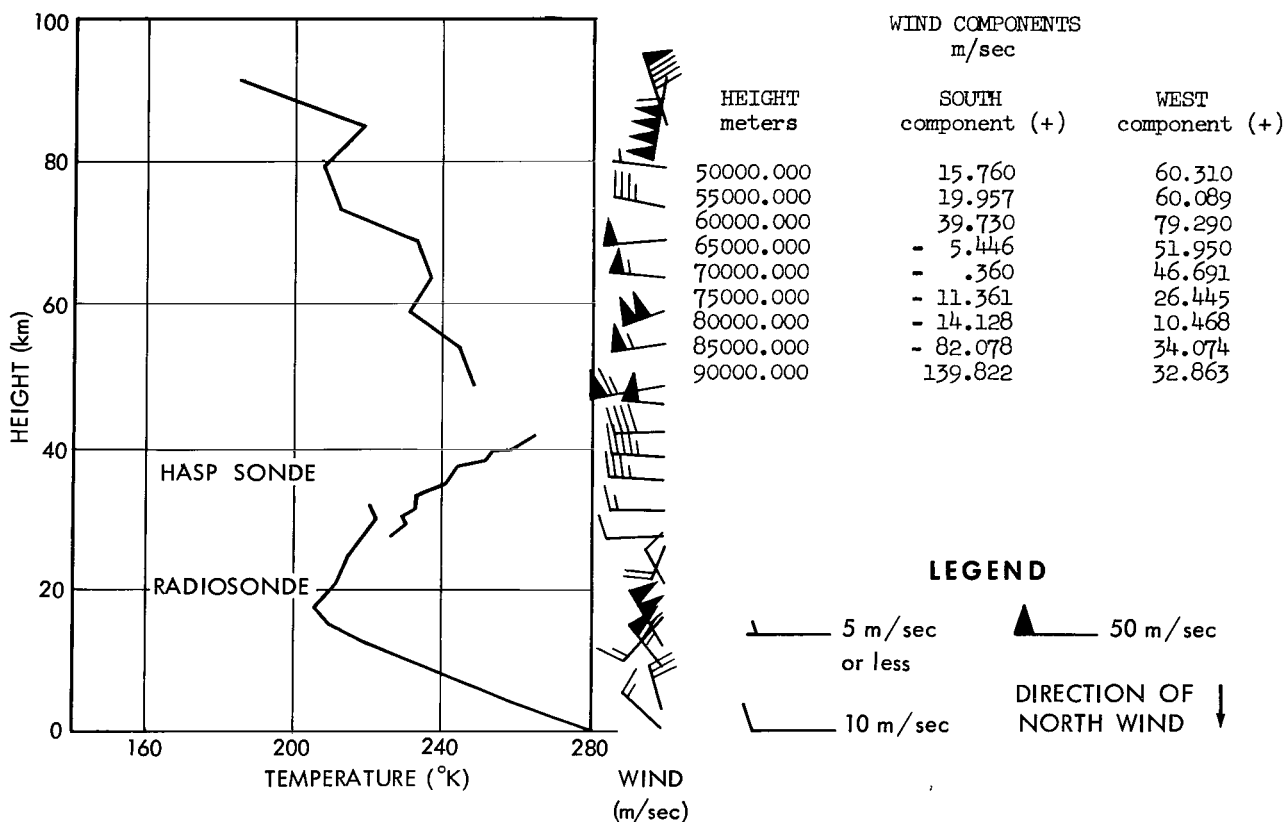


HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)						
.3100000	05	.9370584	03	.1491973	01-	.2188084	03	.9134607-	01	.5523512-	01
.3200000	05	.8038231	03	.1261101	01-	.2220593	03	.9587615-	01	.6964177-	01
.3300000	05	.6911031	03	.1068612	01-	.2253102	03	.9931470-	01	.7663321-	01
.3400000	05	.5955049	03	.9076977	02-	.2285611	03	.1023604-	02	.8196504-	01
.3500000	05	.5142343	03	.7728290	02-	.2318119	03	.1050459-	02	.8685744-	01
.3600000	05	.4449833	03	.6595048	02-	.2350628	03	.1073947-	02	.9132824-	01
.3700000	05	.3858413	03	.5640502	02-	.2383137	03	.1094216-	02	.9542095-	01
.3800000	05	.3352214	03	.4834556	02-	.2415646	03	.1111439-	02	.9913980-	01
.3900000	05	.2918032	03	.4152497	02-	.2448155	03	.1125772-	02	.1024926-	02
.4000000	05	.2544846	03	.3573977	02-	.2480664	03	.1137355-	02	.1055441-	02
.4100000	05	.2223439	03	.3082201	02-	.2513173	03	.1146370-	02	.1082625-	02
.4200000	05	.1946078	03	.2663265	02-	.2545682	03	.1152862-	02	.1107036-	02
.4300000	05	.1705631	03	.2317907	02-	.2563581	03	.1160291-	02	.1081198-	02
.4400000	05	.1495805	03	.2029433	02-	.2567784	03	.1174980-	02	.1015833-	02
.4500000	05	.1312125	03	.1777317	02-	.2571986	03	.1199754-	02	.9611100-	01
.4600000	05	.1151295	03	.1556923	02-	.2576189	03	.1234241-	02	.9169672-	01
.4700000	05	.1010433	03	.1364207	02-	.2580391	03	.1278164-	02	.8840152-	01
.4800000	05	.8870307	02	.1195651	02-	.2584594	03	.1328783-	02	.9193328-	01
.4900000	05	.7788746	02	.1048608	02-	.2587691	03	.1378093-	02	.9820416-	01
.5000000	05	.6840290	02	.9200429	03-	.2590147	03	.1425952-	02	.1040577-	02
.5100000	05	.6008308	02	.8073731	03-	.2592603	03	.1472496-	02	.1097439-	02
.5200000	05	.5278399	02	.7086195	03-	.2595059	03	.1517687-	02	.1152982-	02
.5300000	05	.4637916	02	.6220465	03-	.2597515	03	.1560367-	02	.1242357-	02
.5400000	05	.4074317	02	.5489992	03-	.2585480	03	.1597908-	02	.1304635-	02
.5500000	05	.3576061	02	.4864692	03-	.2560989	03	.1635257-	02	.1324668-	02
.5600000	05	.3134935	02	.4305782	03-	.2536498	03	.1675072-	02	.1347248-	02
.5700000	05	.2744829	02	.3806734	03-	.2512007	03	.1717400-	02	.1372058-	02
.5800000	05	.2400240	02	.3361607	03-	.2487516	03	.1762311-	02	.1399460-	02
.5900000	05	.2096368	02	.2962017	03-	.2465688	03	.1809205-	02	.1437771-	02
.6000000	05	.1828915	02	.2605685	03-	.2445286	03	.1857232-	02	.1482464-	02
.6100000	05	.1593827	02	.2289857	03-	.2424885	03	.1906097-	02	.1527835-	02
.6200000	05	.1387404	02	.2010201	03-	.2404483	03	.1955072-	02	.1600013-	02
.6300000	05	.1206341	02	.1762817	03-	.2384081	03	.1997948-	02	.1705170-	02
.6400000	05	.1047824	02	.1541671	03-	.2367855	03	.2031996-	02	.1815730-	02
.6500000	05	.9094495	01	.1344091	03-	.2357264	03	.2054642-	02	.1934649-	02
.6600000	05	.7888801	01	.1171161	03-	.2346673	03	.2064115-	02	.2039958-	02
.6700000	05	.6838849	01	.1019889	03-	.2336082	03	.2059898-	02	.2132911-	02
.6800000	05	.5925057	01	.8876381	04-	.2325491	03	.2041381-	02	.2213017-	02
.6900000	05	.5129677	01	.7731650	04-	.2311405	03	.2008716-	02	.2268351-	02
.7000000	05	.4436648	01	.6742961	04-	.2292253	03	.1963278-	02	.2296840-	02
.7100000	05	.3832751	01	.5874219	04-	.2273101	03	.1905522-	02	.2315456-	02
.7200000	05	.3307111	01	.5111671	04-	.2253949	03	.1834556-	02	.2324011-	02
.7300000	05	.2850099	01	.4443040	04-	.2234796	03	.1749389-	02	.2321847-	02
.7400000	05	.2453215	01	.3857391	04-	.2215644	03	.1648857-	02	.2308445-	02

# FIGURE 29

## 6 NOVEMBER 1964, 1000 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
255.188	64.313	12.477	249.122	4.021	48511.400
255.886	56.773	14.795	244.027	4.933	54189.690
239.234	99.616	13.901	231.408	5.823	59109.350
279.150	52.923	15.118	237.029	4.798	63819.140
265.278	51.149	17.105	233.503	5.614	68839.540
293.862	36.355	18.566	212.290	5.416	73641.740
282.413	6.209	22.947	207.554	5.888	79069.800
337.607	89.449	22.599	217.566	7.502	84985.900
188.934	209.277	40.529	184.043	11.904	91507.800

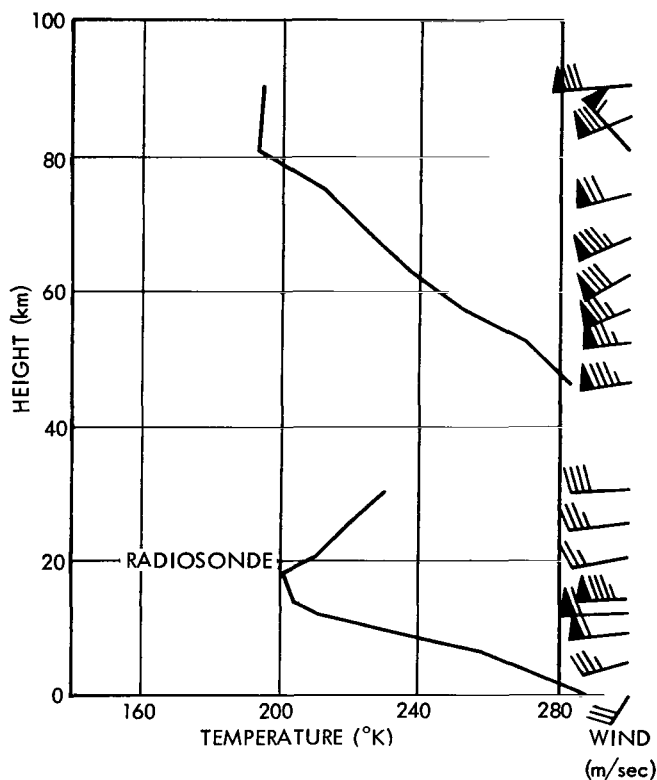


HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)
.320000	05 .8370215	03 .1318985	01- .2210828	03 .5853523-	01 .2693835-
.330000	05 .7187893	03 .1124040	01- .2227810	03 .6323234-	01 .2873943-
.340000	05 .6180014	03 .9591169	02- .2244792	03 .6845014-	01 .2996031-
.350000	05 .5319759	03 .8194095	02- .2261774	03 .7416914-	01 .3181995-
.360000	05 .4584602	03 .7009097	02- .2278756	03 .8036103-	01 .3428009-
.370000	05 .3955586	03 .6002701	02- .2295737	03 .8699273-	01 .3733438-
.380000	05 .3416741	03 .5146918	02- .2312719	03 .9403428-	01 .4093491-
.390000	05 .2954597	03 .4418309	02- .2329701	03 .1014573-	02 .4504084-
.400000	05 .2557777	03 .3797225	02- .2346683	03 .1092324-	02 .4967217-
.410000	05 .2216653	03 .3267156	02- .2363665	03 .1173391-	02 .5475171-
.420000	05 .1923080	03 .2814235	02- .2380647	03 .1257418-	02 .6029286-
.430000	05 .1670146	03 .2426780	02- .2397629	03 .1344197-	02 .6622777-
.440000	05 .1451986	03 .2094949	02- .2414611	03 .1433505-	02 .7257980-
.450000	05 .1263619	03 .1810436	02- .2431593	03 .1525084-	02 .7926757-
.460000	05 .1100798	03 .1566219	02- .2448575	03 .1618711-	02 .8627306-
.470000	05 .9599139	02 .1356361	02- .2465557	03 .1714238-	02 .9364436-
.480000	05 .8378830	02 .1175832	02- .2482539	03 .1809230-	02 .1069853-
.490000	05 .7318245	02 .1025221	02- .2486839	03 .1898924-	02 .1183171-
.500000	05 .6391337	02 .8986119	03- .2477865	03 .1988697-	02 .1249274-
.510000	05 .5579325	02 .7872955	03- .2468891	03 .2081346-	02 .1318826-
.520000	05 .4868271	02 .6894651	03- .2459918	03 .2176757-	02 .1392121-
.530000	05 .4245904	02 .6035246	03- .2450944	03 .2273711-	02 .1503122-
.540000	05 .3701402	02 .5280609	03- .2441970	03 .2366937-	02 .1636267-
.550000	05 .3224001	02 .4642273	03- .2419483	03 .2458760-	02 .1721315-
.560000	05 .2804419	02 .4081381	03- .2393834	03 .2552767-	02 .1798197-
.570000	05 .2435889	02 .3583440	03- .2368184	03 .2649635-	02 .1878153-
.580000	05 .211237	02 .3141935	03- .2342534	03 .2749372-	02 .1961483-
.590000	05 .1829494	02 .2750964	03- .2316884	03 .2851918-	02 .2047859-
.600000	05 .1583500	02 .2373052	03- .2324710	03 .2949878-	02 .2242898-
.610000	05 .1371481	02 .2044820	03- .2336646	03 .3035232-	02 .2434436-
.620000	05 .1188773	02 .1763403	03- .2348581	03 .3106843-	02 .2631303-
.630000	05 .1031198	02 .1521925	03- .2360517	03 .3159729-	02 .2838675-
.640000	05 .8950999	01 .1316316	03- .2369023	03 .3193363-	02 .3012068-
.650000	05 .7770305	01 .1146084	03- .2361999	03 .3211513-	02 .32122806-
.660000	05 .6742806	01 .9974994	04- .2354975	03 .3216949-	02 .3220285-
.670000	05 .5848960	01 .8678565	04- .2347950	03 .3209188-	02 .3305642-
.680000	05 .5071664	01 .7547811	04- .2340926	03 .3187669-	02 .3378533-
.690000	05 .4395181	01 .6577532	04- .2327941	03 .3152954-	02 .3422467-
.700000	05 .3802335	01 .5800383	04- .2283767	03 .3112298-	02 .3373641-
.710000	05 .3280309	01 .5102742	04- .2239594	03 .3072238-	02 .3324688-
.720000	05 .2821771	01 .4477774	04- .2195421	03 .3032888-	02 .3275909-
.730000	05 .2420027	01 .3919115	04- .2151247	03 .2994384-	02 .3227258-
.740000	05 .2069948	01 .3401951	04- .2119774	03 .2953561-	02 .3216584-
.750000	05 .1767974	01 .2917668	04- .2111049	03 .2900842-	02 .3269509-
.760000	05 .1509141	01 .2500855	04- .2102323	03 .2828978-	02 .3306061-
.770000	05 .1287418	01 .2142321	04- .2093598	03 .2736709-	02 .3326102-
.780000	05 .1097596	01 .1834091	04- .2084873	03 .2622198-	02 .3330577-
.790000	05 .9351820	00 .1569264	04- .2076148	03 .2483669-	02 .3319438-
.800000	05 .7970379	00 .1327776	04- .2091280	03 .2311037-	02 .3357797-
.810000	05 .6801628	00 .1123980	04- .2108203	03 .2109846-	02 .3237184-
.820000	05 .5811905	00 .9527786	05- .2125126	03 .1893118-	02 .3105798-
.830000	05 .4972637	00 .8087524	05- .2142049	03 .1660007-	02 .2967370-
.840000	05 .4259994	00 .6874170	05- .2158972	03 .1409915-	02 .2811700-
.850000	05 .3653942	00 .5852944	05- .2174931	03 .1141959-	02 .2642434-
.860000	05 .3130273	00 .5135488	05- .2123532	03 .8772956-	01 .2238948-
.870000	05 .2671640	00 .4491783	05- .2072132	03 .6402728-	01 .1839057-
.880000	05 .2271262	00 .3915764	05- .2020733	03 .4351797-	01 .1448428-
.890000	05 .1922924	00 .3401739	05- .1969333	03 .2666332-	01 .1071549-
.900000	05 .1620942	00 .2944368	05- .1917934	03 .1390545-	01 .7117721-
.910000	05 .1360131	00 .2538651	05- .1866534	03 .7058307-	00 .2284388-

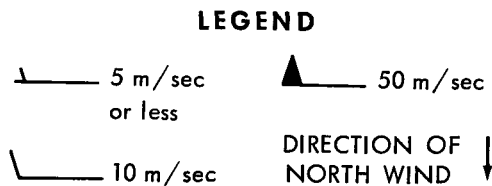
# FIGURE 30

## 19 NOVEMBER 1964, 1902 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
252.083	85.495	8.745	281.551	4.631	46670.000
255.164	77.389	15.868	270.254	4.980	52554.650
243.877	75.881	18.497	251.631	3.754	57569.700
235.220	81.179	24.123	236.743	3.214	62684.290
247.041	85.363	16.780	225.891	2.024	68358.190
255.258	71.686	14.669	213.711	1.740	74569.050
318.370	55.085	14.556	192.783	2.787	80729.350
244.797	70.995	47.669	193.819	4.144	86072.300
26.234	80.491	41.935	195.377	3.321	90456.400



HEIGHT meters	WIND COMPONENTS m/sec	
	SOUTH component (+)	WEST component (+)
50000.000	22.632	77.648
55000.000	26.445	71.552
60000.000	39.539	67.439
65000.000	40.998	71.543
70000.000	29.318	76.149
75000.000	14.085	67.037
80000.000	- 34.139	40.469
85000.000	15.902	58.689
90000.000	- 61.536	- 25.189



HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.3000000	05	.1124826	04	.1718738	01-	.2279994	03	.6031928-	01	.6641034-	01
.3100000	05	.9707784	03	.1462744	01-	.2312118	03	.5864817-	01	.7374369-	01
.3200000	05	.8395703	03	.1247707	01-	.2344242	03	.5566843-	01	.7952238-	01
.3300000	05	.7275648	03	.1066636	01-	.2376366	03	.5179574-	01	.7834062-	01
.3400000	05	.6317431	03	.9138053	02-	.2408491	03	.4773647-	01	.7578797-	01
.3500000	05	.5495926	03	.7845123	02-	.2440615	03	.4350981-	01	.7305305-	01
.3600000	05	.4790171	03	.6748867	02-	.2472739	03	.3912549-	01	.7013490-	01
.3700000	05	.4182634	03	.5817334	02-	.2504863	03	.3458656-	01	.6706202-	01
.3800000	05	.3658621	03	.5024089	02-	.2536987	03	.2989847-	01	.6382265-	01
.3900000	05	.3205786	03	.4347200	02-	.2569112	03	.2506644-	01	.6040996-	01
.4000000	05	.2813729	03	.3768432	02-	.2601236	03	.2009480-	01	.5687806-	01
.4100000	05	.2473676	03	.3272583	02-	.2633360	03	.1499376-	01	.5318157-	01
.4200000	05	.2178205	03	.2846957	02-	.2665484	03	.9758142-	00	.4936666-	01
.4300000	05	.1921028	03	.2480922	02-	.2697608	03	.4395647-	00	.4539548-	01
.4400000	05	.1696803	03	.2165556	02-	.2729733	03	.1087406	00	.4132263-	01
.4500000	05	.1500985	03	.1893360	02-	.2761857	03	.6690079	00	.3709483-	01
.4600000	05	.1329699	03	.1658014	02-	.2793981	03	.1240999	01	.3272051-	01
.4700000	05	.1179212	03	.1462419	02-	.2809170	03	.1786929	01	.2277345-	01
.4800000	05	.1045704	03	.1305770	02-	.2789974	03	.2223328	01	.8300969-	00
.4900000	05	.9265768	02	.1165032	02-	.2770777	03	.2569259	01	.1919731	00
.5000000	05	.8203620	02	.1038679	02-	.2751581	03	.2829318	01	.1147069	01
.5100000	05	.7257314	02	.9253205	03-	.2732385	03	.3002002	01	.2031171	01
.5200000	05	.6414869	02	.8236940	03-	.2713189	03	.3086029	01	.2837079	01
.5300000	05	.5664425	02	.7346957	03-	.2686003	03	.3075769	01	.3436038	01
.5400000	05	.4994468	02	.6568814	03-	.2648868	03	.2996340	01	.4040655	01
.5500000	05	.4396103	02	.5864042	03-	.2611733	03	.2828972	01	.4575002	01
.5600000	05	.3862516	02	.5226596	03-	.2574598	03	.2570462	01	.5031894	01
.5700000	05	.3387459	02	.4650852	03-	.2537464	03	.2217575	01	.5411289	01
.5800000	05	.2965482	02	.4126264	03-	.2503782	03	.1776159	01	.5568849	01
.5900000	05	.2591828	02	.3648771	03-	.2474672	03	.1266237	01	.5474118	01
.6000000	05	.2261743	02	.3221978	03-	.2445563	03	.6982441	00	.5320934	01
.6100000	05	.1970564	02	.2840993	03-	.2416454	03	.7077599	01-	.5112961	01
.6200000	05	.1714081	02	.2501349	03-	.2387344	03	.6082365-	00	.4523395	01
.6300000	05	.1488637	02	.2196240	03-	.2361387	03	.1253914-	01	.3342743	01
.6400000	05	.1291156	02	.1920443	03-	.2342261	03	.1816227-	01	.1950592	01
.6500000	05	.1118617	02	.1677509	03-	.2323136	03	.2272645-	01	.6605949	00
.6600000	05	.9680289	01	.1463733	03-	.2304011	03	.2619339-	01	.5142673-	00
.6700000	05	.8367423	01	.1275808	03-	.2284885	03	.2851794-	01	.1588352-	01
.6800000	05	.7224085	01	.1110777	03-	.2265760	03	.2965079-	01	.2554832-	01
.6900000	05	.6229433	01	.9661278	04-	.2246323	03	.2954566-	01	.3387220-	01
.7000000	05	.5365037	01	.8393961	04-	.2226711	03	.2815570-	01	.4107361-	01
.7100000	05	.4614697	01	.7284158	04-	.2207100	03	.2541124-	01	.4710003-	01
.7200000	05	.3964150	01	.6313388	04-	.2187488	03	.2122888-	01	.5194411-	01
.7300000	05	.3400818	01	.5465210	04-	.2167877	03	.1551414-	01	.5554026-	01
.7400000	05	.2913618	01	.4725011	04-	.2148266	03	.8156981-	00	.5784308-	01
.7500000	05	.2492232	01	.4090780	04-	.2122465	03	.7358196	01-	.5633681-	01
.7600000	05	.2127170	01	.3548356	04-	.2088493	03	.1077206	01	.5022573-	01
.7700000	05	.1810962	01	.3070838	04-	.2054521	03	.2169911	01	.4335258-	01
.7800000	05	.1537705	01	.2651318	04-	.2020549	03	.3361226	01	.3588417-	01
.7900000	05	.1302131	01	.2283335	04-	.1986576	03	.4656099	01	.2786941-	01
.8000000	05	.1099546	01	.1961812	04-	.1952604	03	.6072348	01	.1860338-	01
.8100000	05	.9261773	00	.1673270	04-	.1928352	03	.7440189	01	.6781153	00
.8200000	05	.7794179	00	.1406714	04-	.1930291	03	.8719083	01	.1788289	01
.8300000	05	.6560639	00	.1182893	04-	.1932230	03	.1003354	02	.2860290	01
.8400000	05	.5523541	00	.9949042	05-	.1934169	03	.1137968	02	.4036842	01
.8500000	05	.4651450	00	.8369834	05-	.1936108	03	.1276242	02	.5214760	01
.8600000	05	.3917932	00	.7042885	05-	.1938048	03	.1418214	02	.6436238	01
.8700000	05	.3301040	00	.5923451	05-	.1941485	03	.1564742	02	.7620851	01
.8800000	05	.2782286	00	.4983464	05-	.1945040	03	.1716861	02	.8833042	01
.8900000	05	.2345909	00	.4194186	05-	.1948595	03	.1874411	02	.1008364	02
.9000000	05	.1978695	00	.3531213	05-	.1952149	03	.2037320	02	.1139473	02



Appendix A

**Tabulated Churchill and Guam Data 1956-1958**





# TABLE 1

## 12 NOV 1956, 1148 GMT, CHURCHILL

HEIGHT		PRESSURE		DENSITY		TEMPERATURE		PRESSURE		DENSITY	
meters		nt/sq meter		kg/cu meter		degrees Kelvin		dev. from std atmosphere (%)		dev. from std atmosphere (%)	
.1900000	05	.5768790	04	.9378215	01-	.2143003	03	.1080312-	02	.9824845-	01
.2000000	05	.4921524	04	.8021027	01-	.2137607	03	.1099190-	02	.9784873-	01
.2100000	05	.4197227	04	.6857888	01-	.2132211	03	.1124362-	02	.9424959-	01
.2200000	05	.3578255	04	.5861378	01-	.2126815	03	.1159324-	02	.9140008-	01
.2300000	05	.3049482	04	.5007925	01-	.2121419	03	.1203906-	02	.8956741-	01
.2400000	05	.2597919	04	.4277237	01-	.2116023	03	.1257920-	02	.8874744-	01
.2500000	05	.2212426	04	.3651871	01-	.2110627	03	.1321163-	02	.8894536-	01
.2600000	05	.1883455	04	.3116833	01-	.2105231	03	.1393342-	02	.9016156-	01
.2700000	05	.1603100	04	.2653235	01-	.2104957	03	.1472734-	02	.9439723-	01
.2800000	05	.1365611	04	.2238681	01-	.2125167	03	.1550427-	02	.1072415-	02
.2900000	05	.1165130	04	.1892033	01-	.2145377	03	.1620305-	02	.1190832-	02
.3000000	05	.9955963	03	.1601918	01-	.2165215	03	.1682779-	02	.1298651-	02
.3100000	05	.8518161	03	.1361766	01-	.2179222	03	.1740045-	02	.1376861-	02
.3200000	05	.7295637	03	.1158877	01-	.2193229	03	.1794015-	02	.1450554-	02
.3300000	05	.6255933	03	.9855842	02-	.2211345	03	.1846908-	02	.1483762-	02
.3400000	05	.5378116	03	.8266901	02-	.2266447	03	.1893249-	02	.1638952-	02
.3500000	05	.4634972	03	.7068228	02-	.2284519	03	.1933468-	02	.1648475-	02
.3600000	05	.3997352	03	.6090004	02-	.2286720	03	.1981592-	02	.1609136-	02
.3700000	05	.3448100	03	.5248160	02-	.2288922	03	.2041278-	02	.1583416-	02
.3800000	05	.2978910	03	.4446804	02-	.2333820	03	.2101274-	02	.1713925-	02
.3900000	05	.2581231	03	.3772912	02-	.2383463	03	.2150041-	02	.1845350-	02
.4000000	05	.2242968	03	.3219518	02-	.2427115	03	.2188672-	02	.1942543-	02
.4100000	05	.1952684	03	.2780299	02-	.2446801	03	.2224503-	02	.1956083-	02
.4200000	05	.1701931	03	.2403928	02-	.2466486	03	.2262789-	02	.1972994-	02
.4300000	05	.1485063	03	.2080999	02-	.2486172	03	.2303419-	02	.1992770-	02
.4400000	05	.1297278	03	.1803577	02-	.2505858	03	.2346264-	02	.2015685-	02
.4500000	05	.1134525	03	.1564182	02-	.2526882	03	.2390899-	02	.2045050-	02
.4600000	05	.9934151	02	.1356668	02-	.2551028	03	.2436310-	02	.2085244-	02
.4700000	05	.8709811	02	.1178312	02-	.2575174	03	.2481886-	02	.2126216-	02
.4800000	05	.7646054	02	.1024792	02-	.2599321	03	.2525558-	02	.2216967-	02
.4900000	05	.6720578	02	.8924607	03-	.2623467	03	.2560522-	02	.2324898-	02
.5000000	05	.5906796	02	.7928475	03-	.2595496	03	.2596052-	02	.2279213-	02
.5100000	05	.5190279	02	.6923024	03-	.2611878	03	.2635513-	02	.2366275-	02
.5200000	05	.4566144	02	.6019707	03-	.2642606	03	.2662271-	02	.2484478-	02
.5300000	05	.4024404	02	.5219301	03-	.2686256	03	.2676777-	02	.2651872-	02
.5400000	05	.3554565	02	.4530889	03-	.2733135	03	.2669745-	02	.2823718-	02
.5500000	05	.3141452	02	.4037519	03-	.2710654	03	.2651848-	02	.2799788-	02
.5600000	05	.2772496	02	.3616257	03-	.2670975	03	.2637540-	02	.2732894-	02
.5700000	05	.2440559	02	.3269965	03-	.2600185	03	.2635543-	02	.2588641-	02
.5800000	05	.2141278	02	.2941302	03-	.2536247	03	.2651075-	02	.2474793-	02
.5900000	05	.1873715	02	.2614975	03-	.2496285	03	.2679140-	02	.2440957-	02

# TABLE 2

## 22 JULY 1957, 0416 GMT, CHURCHILL

HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.2400000	05	.3192550	04	.4909033	01-	.2265687	03	.7430320	01	.4585485	01
.2500000	05	.2749726	04	.4200071	01-	.2280819	03	.7865371	01	.4781752	01
.2600000	05	.2370773	04	.3597373	01-	.2295951	03	.8335111	01	.5011324	01
.2700000	05	.2046132	04	.3084439	01-	.2311084	03	.8838563	01	.5278149	01
.2800000	05	.1767750	04	.2646934	01-	.2326676	03	.9377621	01	.5556477	01
.2900000	05	.1529000	04	.2270191	01-	.2346407	03	.9966812	01	.5698438	01
.3000000	05	.1324163	04	.1949663	01-	.2366139	03	.1062075	02	.5902400	01
.3100000	05	.1148190	04	.1676583	01-	.2385870	03	.1133856	02	.6166615	01
.3200000	05	.9970955	03	.1438299	01-	.2415158	03	.1215127	02	.6108418	01
.3300000	05	.8675533	03	.1233228	01-	.2450817	03	.1306454	02	.6560790	01
.3400000	05	.7563924	03	.1059793	01-	.2486476	03	.1401547	02	.7186219	01
.3500000	05	.6607915	03	.9127550	02-	.2522135	03	.1500166	02	.7847334	01
.3600000	05	.5782810	03	.7899550	02-	.2550320	03	.1599910	02	.8840719	01
.3700000	05	.5068364	03	.6847926	02-	.2578498	03	.1698528	02	.9821610	01
.3800000	05	.4448738	03	.5945766	02-	.2606676	03	.1796047	02	.1079206	02
.3900000	05	.3910328	03	.5173782	02-	.2633075	03	.1891967	02	.1182447	02
.4000000	05	.3441545	03	.4510343	02-	.2658288	03	.1985475	02	.1287994	02
.4100000	05	.3032734	03	.3937230	02-	.2683500	03	.2076206	02	.1391131	02
.4200000	05	.2675724	03	.3441953	02-	.2708286	03	.2164206	02	.1493100	02
.4300000	05	.2363321	03	.3016760	02-	.2729230	03	.2248296	02	.1607835	02
.4400000	05	.2089455	03	.2646861	02-	.2750173	03	.2327458	02	.1717477	02
.4500000	05	.1849122	03	.2324710	02-	.2771117	03	.2401806	02	.1822763	02
.4600000	05	.1637809	03	.2047542	02-	.2786691	03	.2469998	02	.1945287	02
.4700000	05	.1451570	03	.1806934	02-	.2798684	03	.2529630	02	.2074400	02
.4800000	05	.1287221	03	.1595512	02-	.2810678	03	.2583296	02	.2117510	02
.4900000	05	.1141962	03	.1412440	02-	.2816696	03	.2641178	02	.2146887	02
.5000000	05	.1012874	03	.1260782	02-	.2798811	03	.2695998	02	.2277553	02
.5100000	05	.8977214	02	.1124631	02-	.2780928	03	.2741228	02	.2400827	02
.5200000	05	.7950713	02	.1002482	02-	.2763043	03	.2776683	02	.2515848	02
.5300000	05	.7036705	02	.8921782	03-	.2747741	03	.2804717	02	.2560762	02
.5400000	05	.6223855	02	.7933493	03-	.2733085	03	.2834887	02	.2565522	02
.5500000	05	.5501480	02	.7050498	03-	.2718428	03	.2868478	02	.2573338	02
.5600000	05	.4859190	02	.6275760	03-	.2697464	03	.2903748	02	.2611553	02
.5700000	05	.4286950	02	.5599862	03-	.2667038	03	.2935997	02	.2692056	02
.5800000	05	.3776815	02	.4990425	03-	.2636613	03	.2962133	02	.2767809	02
.5900000	05	.3322629	02	.4441549	03-	.2606187	03	.2981961	02	.2839073	02
.6000000	05	.2918375	02	.3955791	03-	.2570194	03	.2993307	02	.2930804	02
.6100000	05	.2558683	02	.3518356	03-	.2533581	03	.2993713	02	.3017450	02
.6200000	05	.2239125	02	.3124089	03-	.2496969	03	.2983672	02	.3054568	02
.6300000	05	.1955235	02	.2778401	03-	.2451671	03	.2969708	02	.3073599	02
.6400000	05	.1702464	02	.2478168	03-	.2393345	03	.2946099	02	.3155851	02
.6500000	05	.1477381	02	.2204246	03-	.2335019	03	.2907060	02	.3226802	02
.6600000	05	.1277523	02	.1954890	03-	.2276693	03	.2851476	02	.3286822	02
.6700000	05	.1101106	02	.1718391	03-	.2232366	03	.2784159	02	.3255097	02
.6800000	05	.9462715	01	.1506663	03-	.2188053	03	.2710452	02	.3217501	02
.6900000	05	.8107309	01	.1317537	03-	.2143740	03	.2629997	02	.3175370	02
.7000000	05	.6923990	01	.1148984	03-	.2099426	03	.2542393	02	.3125995	02
.7100000	05	.5893809	01	.9991218	04-	.2055113	03	.2447275	02	.3070326	02
.7200000	05	.5001079	01	.8632859	04-	.2018214	03	.2347946	02	.2963613	02
.7300000	05	.4231276	01	.7433101	04-	.1983168	03	.2248913	02	.2845370	02
.7400000	05	.3569503	01	.6383366	04-	.1948122	03	.2151169	02	.2728293	02
.7500000	05	.3002109	01	.5467041	04-	.1913076	03	.2054726	02	.2611399	02
.7600000	05	.2516975	01	.4669114	04-	.1878030	03	.1959967	02	.2497630	02
.7700000	05	.2103520	01	.3972948	04-	.1844556	03	.1867530	02	.2376788	02
.7800000	05	.1752405	01	.3369018	04-	.1812129	03	.1779287	02	.2250975	02
.7900000	05	.1455174	01	.2848562	04-	.1779703	03	.1695662	02	.2126700	02
.8000000	05	.1204229	01	.2402698	04-	.1746096	03	.1617107	02	.2019500	02
.8100000	05	.9926963	00	.2025096	04-	.1707768	03	.1515665	02	.2184693	02
.8200000	05	.8147901	00	.1700329	04-	.1669441	03	.1365305	02	.2303393	02
.8300000	05	.6657484	00	.1421950	04-	.1631113	03	.1165779	02	.2364781	02

# TABLE 3

## 24 JULY 1957, 0530 GMT, CHURCHILL

HEIGHT		PRESSURE		DENSITY		TEMPERATURE		PRESSURE		DENSITY	
meters		nt/sq meter		kg/cu meter		degrees Kelvin		dev. from std atmosphere (%)		dev. from std atmosphere (%)	
.3200000	05	.9889229	03	.1396990	01-	.2466195	03	.1123203	02	.3060846	01
.3300000	05	.8627677	03	.1204240	01-	.2495967	03	.1244084	02	.4056037	01
.3400000	05	.7539564	03	.1039959	01-	.2525738	03	.1364829	02	.5180203	01
.3500000	05	.6597683	03	.9029012	02-	.2545712	03	.1482359	02	.6683043	01
.3600000	05	.5779103	03	.7860068	02-	.2561488	03	.1592473	02	.8296738	01
.3700000	05	.5066413	03	.6848571	02-	.2577263	03	.1694025	02	.9831953	01
.3800000	05	.4444748	03	.5984279	02-	.2587578	03	.1785468	02	.1150970	02
.3900000	05	.3900282	03	.5256154	02-	.2585152	03	.1861416	02	.1360482	02
.4000000	05	.3422239	03	.4616258	02-	.2582727	03	.1918240	02	.1553065	02
.4100000	05	.3002812	03	.4049708	02-	.2583227	03	.1957058	02	.1716551	02
.4200000	05	.2636672	03	.3519364	02-	.2610058	03	.1988671	02	.1751582	02
.4300000	05	.2318351	03	.3062989	02-	.2636889	03	.2015230	02	.1785714	02
.4400000	05	.2041197	03	.2669651	02-	.2663720	03	.2042746	02	.1818370	02
.4500000	05	.1799224	03	.2336227	02-	.2683048	03	.2067153	02	.1881335	02
.4600000	05	.1587318	03	.2048770	02-	.2699162	03	.2085565	02	.1952454	02
.4700000	05	.1401468	03	.1798156	02-	.2715275	03	.2097157	02	.2015745	02
.4800000	05	.1238225	03	.1581671	02-	.2727354	03	.2104332	02	.2012386	02
.4900000	05	.1094538	03	.1394017	02-	.2735399	03	.2116202	02	.1988453	02
.5000000	05	.9679118	02	.12229130	02-	.2743444	03	.2132413	02	.1969325	02
.5100000	05	.8562765	02	.8562765	02-	.2751489	03	.2153007	02	.1954872	02
.5200000	05	.7578165	02	.9567233	03-	.2759535	03	.2178005	02	.1944561	02
.5300000	05	.6706573	02	.8500965	03-	.2748467	03	.2203976	02	.1968305	02
.5400000	05	.5930833	02	.7583365	03-	.2724657	03	.2230614	02	.2010969	02
.5500000	05	.5239366	02	.6758291	03-	.2700847	03	.2255370	02	.2052236	02
.5600000	05	.4623619	02	.6017079	03-	.2677037	03	.2278180	02	.2091715	02
.5700000	05	.4075841	02	.5351812	03-	.2653228	03	.2298970	02	.2129854	02
.5800000	05	.3589232	02	.4751163	03-	.2631842	03	.2318342	02	.2155663	02
.5900000	05	.3157613	02	.4213080	03-	.2611063	03	.2337220	02	.2178645	02
.6000000	05	.2775168	02	.3732503	03-	.2590283	03	.2355714	02	.2200911	02
.6100000	05	.2436220	02	.3311211	03-	.2563231	03	.2371809	02	.2251040	02
.6200000	05	.2135455	02	.2940657	03-	.2529906	03	.2382538	02	.2288064	02
.6300000	05	.1868632	02	.2607572	03-	.2496580	03	.2395239	02	.2269773	02
.6400000	05	.1632340	02	.2307520	03-	.2464469	03	.2412857	02	.2249936	02
.6500000	05	.1423576	02	.2036601	03-	.2435190	03	.2436995	02	.2220829	02
.6600000	05	.1239510	02	.1794853	03-	.2405910	03	.2469085	02	.2199100	02
.6700000	05	.1077384	02	.1580971	03-	.2374130	03	.2508737	02	.2195091	02
.6800000	05	.9340968	01	.1402784	03-	.2319846	03	.2546919	02	.2306207	02
.6900000	05	.8071708	01	.1241217	03-	.2265561	03	.2574536	02	.2412174	02
.7000000	05	.6950576	01	.1095055	03-	.2211276	03	.2590552	02	.2509912	02
.7100000	05	.5964319	01	.9610439	04-	.2162100	03	.2596186	02	.2572199	02
.7200000	05	.5100373	01	.8407361	04-	.2113491	03	.2593110	02	.2624992	02
.7300000	05	.4345935	01	.7332399	04-	.2064882	03	.2580833	02	.2671344	02
.7400000	05	.3688969	01	.6378602	04-	.2014827	03	.2557851	02	.2718793	02
.7500000	05	.3118511	01	.5531343	04-	.1964151	03	.2522130	02	.2759731	02
.7600000	05	.2624856	01	.4779043	04-	.1913475	03	.2472589	02	.2791872	02
.7700000	05	.2199662	01	.4105539	04-	.1866568	03	.2409938	02	.2789844	02
.7800000	05	.1835516	01	.3506931	04-	.1823430	03	.2337944	02	.2752478	02
.7900000	05	.1525118	01	.2984492	04-	.1780292	03	.2257823	02	.2705371	02
.8000000	05	.1261595	01	.2528941	04-	.1737958	03	.2170507	02	.2651034	02
.8100000	05	.1038868	01	.2132950	04-	.1696829	03	.2051277	02	.2833633	02
.8200000	05	.8514474	00	.1791573	04-	.1655699	03	.1876629	02	.2963627	02

# TABLE 4

## 12 AUG 1957, 1600 GMT, CHURCHILL

HEIGHT		PRESSURE		DENSITY		TEMPERATURE		PRESSURE		DENSITY	
meters		nt/sq meter		kg/cu meter		degrees Kelvin		dev. from std atmosphere (%)		dev. from std atmosphere (%)	
.3400000	05	.7361603	03	.1049664	01-	.2443319	03	.1096578	02	.6161815	01
.3500000	05	.6414887	03	.9036769	02-	.2473056	03	.1164227	02	.6774697	01
.3600000	05	.5598784	03	.7805271	02-	.2498986	03	.1230766	02	.7541738	01
.3700000	05	.4893578	03	.6752080	02-	.2524917	03	.1295096	02	.8284513	01
.3800000	05	.4282711	03	.5860488	02-	.2545911	03	.1355820	02	.9203010	01
.3900000	05	.3752307	03	.5093773	02-	.2566356	03	.1411397	02	.1009518	02
.4000000	05	.3291178	03	.4432476	02-	.2586802	03	.1461809	02	.1093116	02
.4100000	05	.2889981	03	.3858257	02-	.2609529	03	.1507772	02	.1162646	02
.4200000	05	.2541926	03	.3338246	02-	.2652790	03	.1555944	02	.1146807	02
.4300000	05	.2240523	03	.2895207	02-	.2696051	03	.1611879	02	.1140125	02
.4400000	05	.1978907	03	.2516762	02-	.2739312	03	.1675247	02	.1141540	02
.4500000	05	.1750677	03	.2204842	02-	.2766220	03	.1741552	02	.1213154	02
.4600000	05	.1549366	03	.1959274	02-	.2754971	03	.1796609	02	.1430340	02
.4700000	05	.1370571	03	.1740282	02-	.2743722	03	.1830464	02	.1629013	02
.4800000	05	.1211892	03	.1544139	02-	.2734233	03	.1846917	02	.1727346	02
.4900000	05	.1071172	03	.1369495	02-	.2724940	03	.1857554	02	.1777564	02
.5000000	05	.9465346	02	.1212070	02-	.2720614	03	.1864457	02	.1803195	02
.5100000	05	.8363721	02	.1070751	02-	.2721254	03	.1870506	02	.1806719	02
.5200000	05	.7390347	02	.9463827	03-	.2720546	03	.1876183	02	.1815460	02
.5300000	05	.6528627	02	.8399988	03-	.2707705	03	.1880167	02	.1826141	02
.5400000	05	.5764208	02	.7451797	03-	.2694863	03	.1887000	02	.1802584	02
.5500000	05	.5084713	02	.6641382	03-	.2667264	03	.1893620	02	.1843750	02
.5600000	05	.4479469	02	.5915693	03-	.2638026	03	.1895386	02	.1887974	02
.5700000	05	.3942378	02	.5233021	03-	.2624604	03	.1896238	02	.1860615	02
.5800000	05	.3468125	02	.4615191	03-	.2617961	03	.1902700	02	.1807787	02
.5900000	05	.3049461	02	.4080677	03-	.2603449	03	.1914658	02	.1795912	02
.6000000	05	.2678991	02	.3616015	03-	.2581066	03	.1927513	02	.1820134	02
.6100000	05	.2351283	02	.3194921	03-	.2563910	03	.1940476	02	.1820783	02
.6200000	05	.2062216	02	.2815237	03-	.2551981	03	.1957859	02	.1763977	02
.6300000	05	.1807587	02	.2480526	03-	.2538713	03	.1990311	02	.1671964	02
.6400000	05	.1583333	02	.2184971	03-	.2524555	03	.2040189	02	.1599356	02

# TABLE 5

## 20 AUG 1957, 0230 GMT, CHURCHILL

HEIGHT		PRESSURE		DENSITY		TEMPERATURE		PRESSURE		DENSITY	
meters		nt/sq meter		kg/cu meter		degrees Kelvin		dev. from std atmosphere (%)		dev. from std atmosphere (%)	
.320000	05	.9426026	03	.1368346	01-	.2399888	03	.6022026	01	.9476816	00
.330000	05	.8188259	03	.1183411	01-	.2410539	03	.6714099	01	.2256202	01
.340000	05	.7117754	03	.1024171	01-	.2421190	03	.7290100	01	.3583427	01
.350000	05	.6191277	03	.8869585	02-	.2431841	03	.7750656	01	.4799314	01
.360000	05	.5388918	03	.7686373	02-	.2442520	03	.8097887	01	.5903560	01
.370000	05	.4697365	03	.6593284	02-	.2482051	03	.8422079	01	.5737861	01
.380000	05	.4103628	03	.5669609	02-	.2521581	03	.8809708	01	.5646210	01
.390000	05	.3592630	03	.4886997	02-	.2561112	03	.9257920	01	.5625980	01
.400000	05	.3150008	03	.4256594	02-	.2578146	03	.9701712	01	.6529385	01
.410000	05	.2764420	03	.3711065	02-	.2595157	03	.1007793	02	.7367941	01
.420000	05	.2428201	03	.3238490	02-	.2612163	03	.1038933	02	.8137099	01
.430000	05	.2134464	03	.2834335	02-	.2623589	03	.1062208	02	.9059045	01
.440000	05	.1877386	03	.2482154	02-	.2635015	03	.1076285	02	.9883289	01
.450000	05	.1652254	03	.2175068	02-	.2646441	03	.1081441	02	.1061729	02
.460000	05	.1454976	03	.1907133	02-	.2657867	03	.1077939	02	.1126148	02
.470000	05	.1282425	03	.1665085	02-	.2683204	03	.1069606	02	.1126530	02
.480000	05	.1131724	03	.1455656	02-	.2708569	03	.1063229	02	.1055335	02
.490000	05	.9999352	02	.1274212	02-	.2733935	03	.1068981	02	.9581407	01
.500000	05	.8845369	02	.1116812	02-	.2759269	03	.1087340	02	.8755658	01
.510000	05	.7828403	02	.9901746	03-	.2754352	03	.1110737	02	.9182343	01
.520000	05	.6927110	02	.8777415	03-	.2749436	03	.1131767	02	.9584843	01
.530000	05	.6128479	02	.7779375	03-	.2744519	03	.1152017	02	.9523941	01
.540000	05	.5418386	02	.6943564	03-	.2718602	03	.1173842	02	.9976155	01
.550000	05	.4785104	02	.6191092	03-	.2692665	03	.1192808	02	.1040736	02
.560000	05	.4220921	02	.5514254	03-	.2666727	03	.1208803	02	.1081257	02
.570000	05	.3718463	02	.4913453	03-	.2636543	03	.1220571	02	.1136314	02
.580000	05	.3271171	02	.4372487	03-	.2606350	03	.1226747	02	.1186838	02
.590000	05	.2873504	02	.3885953	03-	.2576158	03	.1227171	02	.1233028	02
.600000	05	.2521321	02	.3431514	03-	.2559767	03	.1225526	02	.1217032	02
.610000	05	.2210535	02	.3027908	03-	.2543389	03	.1225717	02	.1228855	02
.620000	05	.1936489	02	.2669722	03-	.2527012	03	.1228824	02	.1155914	02
.630000	05	.1695028	02	.2352101	03-	.2510609	03	.1243668	02	.1067668	02
.640000	05	.1481427	02	.2090462	03-	.2468858	03	.1265265	02	.1097640	02
.650000	05	.1291828	02	.1854273	03-	.2427108	03	.1285987	02	.1126754	02
.660000	05	.1123869	02	.1641423	03-	.2385357	03	.1305769	02	.1156277	02
.670000	05	.9753889	01	.1449944	03-	.2343606	03	.1324548	02	.1184391	02
.680000	05	.8439426	01	.1287155	03-	.2284232	03	.1335956	02	.1291824	02
.690000	05	.7274649	01	.1139125	03-	.2224840	03	.1332836	02	.1391251	02
.700000	05	.6245775	01	.1004840	03-	.2165448	03	.1313847	02	.1479290	02
.710000	05	.5339986	01	.8833334	04-	.2106074	03	.1277643	02	.1555603	02
.720000	05	.4548563	01	.7674901	04-	.2064712	03	.1230659	02	.1525087	02
.730000	05	.3862074	01	.6649786	04-	.2023350	03	.1180128	02	.1491699	02
.740000	05	.3268299	01	.5744852	04-	.1981988	03	.1125823	02	.1455112	02
.750000	05	.2756239	01	.4948039	04-	.1940626	03	.1067455	02	.1414162	02
.760000	05	.2316013	01	.4248286	04-	.1899264	03	.1005053	02	.1371217	02
.770000	05	.1938764	01	.3635467	04-	.1857903	03	.9380206	01	.1325443	02
.780000	05	.1616296	01	.3105636	04-	.1813128	03	.8643951	01	.1293225	02
.790000	05	.1341424	01	.2642755	04-	.1768346	03	.7814206	01	.1250556	02
.800000	05	.1108053	01	.2239712	04-	.1723560	03	.6892990	01	.1204164	02
.810000	05	.9104783	00	.1895069	04-	.1673797	03	.5619046	01	.1402341	02

# TABLE 6

## 25 AUG 1957, 1408 GMT, CHURCHILL

HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.330000	05	.8047423	03	.1178612	01-	.2378725	03	.4878647	01	.1841505	01
.340000	05	.6983546	03	.1015601	01-	.2395581	03	.5267099	01	.2716748	01
.350000	05	.6066608	03	.8760888	02-	.2412437	03	.5580960	01	.3515002	01
.360000	05	.5275461	03	.7565519	02-	.2429293	03	.5822032	01	.4238416	01
.370000	05	.4592396	03	.6534907	02-	.2448263	03	.5999244	01	.4801662	01
.380000	05	.4003078	03	.5635092	02-	.2474863	03	.6143578	01	.5003026	01
.390000	05	.3494659	03	.4867084	02-	.2501463	03	.6278470	01	.5195605	01
.400000	05	.3055327	03	.4210445	02-	.2528063	03	.6404384	01	.5374409	01
.410000	05	.2674995	03	.3649993	02-	.2553225	03	.6517059	01	.5601003	01
.420000	05	.2344848	03	.3174678	02-	.2573198	03	.6600000	01	.6006327	01
.430000	05	.2057626	03	.2764351	02-	.2593172	03	.6639805	01	.6366196	01
.440000	05	.1807470	03	.2409714	02-	.2613146	03	.6637901	01	.6676454	01
.450000	05	.1589357	03	.2102855	02-	.2633119	03	.6596040	01	.6944754	01
.460000	05	.1398836	03	.1839815	02-	.2648810	03	.6504956	01	.7334199	01
.470000	05	.1231730	03	.1619885	02-	.2649046	03	.6320199	01	.8244919	01
.480000	05	.1084636	03	.1426310	02-	.2649282	03	.6029173	01	.8324628	01
.490000	05	.9514557	02	.1255917	02-	.2649518	03	.5731748	01	.8008008	01
.500000	05	.8411789	02	.1105964	02-	.2649754	03	.5438636	01	.7699305	01
.510000	05	.7408441	02	.9739591	03-	.2649990	03	.5146912	01	.7394344	01
.520000	05	.6524397	02	.8583804	03-	.2648004	03	.4846134	01	.7167630	01
.530000	05	.5714452	02	.7586323	03-	.2638004	03	.4532009	01	.6806016	01
.540000	05	.5055496	02	.6701871	03-	.2628003	03	.4254878	01	.6148077	01
.550000	05	.4447180	02	.5917970	03-	.2618002	03	.4023717	01	.5536719	01
.560000	05	.3910301	02	.5223486	03-	.2608002	03	.3839404	01	.4969384	01
.570000	05	.3436553	02	.4610828	03-	.2596583	03	.3698966	01	.4504157	01
.580000	05	.3018217	02	.4075500	03-	.2580047	03	.3586017	01	.4270086	01
.590000	05	.2648702	02	.3599615	03-	.2563511	03	.3488377	01	.4053167	01
.600000	05	.2322558	02	.3176874	03-	.2546975	03	.3405868	01	.3846553	01
.610000	05	.2034913	02	.2801613	03-	.2530439	03	.3338637	01	.3655950	01
.620000	05	.1781423	02	.2468748	03-	.2513903	03	.3296665	01	.3161069	01
.630000	05	.1557853	02	.2180596	03-	.2488911	03	.3337417	01	.2606650	01
.640000	05	.1359408	02	.1946229	03-	.2433403	03	.3373874	01	.3319485	01
.650000	05	.1182568	02	.1732574	03-	.2377894	03	.3314452	01	.3964845	01
.660000	05	.1025397	02	.1538211	03-	.2322386	03	.3151758	01	.4547758	01
.670000	05	.8860937	01	.1361788	03-	.2266879	03	.2878047	01	.5043337	01
.680000	05	.7629973	01	.1201746	03-	.2211915	03	.2486866	01	.5425564	01
.690000	05	.6546101	01	.1056343	03-	.2158917	03	.1978650	01	.5634276	01
.700000	05	.5595123	01	.9256057	04-	.2105920	03	.1352306	01	.5741220	01
.710000	05	.4763438	01	.8083626	04-	.2052922	03	.6001678	00	.5748493	01
.720000	05	.4039371	01	.7019150	04-	.2004876	03	.2656310-	00	.5403720	01
.730000	05	.3414476	01	.6023959	04-	.1974696	03	.1156013-	01	.4101876	01
.740000	05	.2878945	01	.5157981	04-	.1944517	03	.1996039-	01	.2849035	01
.750000	05	.2421068	01	.4406022	04-	.1914337	03	.2783976-	01	.1638332	01
.760000	05	.2030792	01	.3749383	04-	.1886964	03	.3502414-	01	.3582377	00
.770000	05	.1699972	01	.3167554	04-	.1869717	03	.4091842-	01	.1322286-	01
.780000	05	.1420780	01	.2671983	04	.1852470	03	.4498246-	01	.2836956-	01
.790000	05	.1185515	01	.2250487	04	.1835222	03	.4716662-	01	.4193805-	01
.800000	05	.9875742	00	.1892517	04-	.1817975	03	.4729479-	01	.5326782-	01
.810000	05	.8214359	00	.1586331	04-	.1804006	03	.4710222-	01	.4552859-	01
.820000	05	.6827216	00	.1320019	04-	.1801863	03	.4768854-	01	.4484876-	01
.830000	05	.5673405	00	.1098240	04-	.1799719	03	.4846946-	01	.4500868-	01
.840000	05	.4713812	00	.9135729	05-	.1797576	03	.4948122-	01	.4467956-	01
.850000	05	.3915877	00	.7598329	05-	.1795433	03	.5069639-	01	.4483609-	01
.860000	05	.3251904	00	.6329821	05-	.1789800	03	.5228222-	01	.4340010-	01
.870000	05	.2697309	00	.5304318	05-	.1771574	03	.5503459-	01	.3627940-	01
.880000	05	.2233107	00	.4437102	05-	.1753348	03	.5958608-	01	.3098867-	01

# TABLE 7

## 12 DEC 1957, 0400 GMT, CHURCHILL

HEIGHT		PRESSURE		DENSITY		TEMPERATURE		PRESSURE		DENSITY	
meters		nt/sq meter		kg/cu meter		degrees Kelvin		dev. from std atmosphere (%)		dev. from std atmosphere (%)	
.210000	05	.4037484	04	.6868967	01-	.2047753	03	.1462161-	02	.9278643-	01
.220000	05	.3418339	04	.5854229	01-	.2034247	03	.1554422-	02	.9250825-	01
.230000	05	.2891082	04	.4984343	01-	.2020741	03	.1660806-	02	.9385455-	01
.240000	05	.2442533	04	.4239363	01-	.2007234	03	.1780797-	02	.9681644-	01
.250000	05	.2061819	04	.3592903	01-	.1999232	03	.1911963-	02	.1036565-	02
.260000	05	.1740050	04	.3031810	01-	.1999484	03	.2048647-	02	.1149809-	02
.270000	05	.1468601	04	.2558521	01-	.1999736	03	.2188170-	02	.1267248-	02
.280000	05	.1239681	04	.2156495	01-	.2002717	03	.2329610-	02	.1400162-	02
.290000	05	.1047838	04	.1798060	01-	.2030244	03	.2463872-	02	.1628363-	02
.300000	05	.8877372	03	.1502953	01-	.2057771	03	.2583835-	02	.1836211-	02
.310000	05	.7537959	03	.1259342	01-	.2085298	03	.2690535-	02	.2025443-	02
.320000	05	.6414701	03	.1057720	01-	.2112825	03	.2784876-	02	.2196824-	02
.330000	05	.5470508	03	.8904314	02-	.2140353	03	.2870519-	02	.2305959-	02
.340000	05	.4675026	03	.7512888	02-	.2167880	03	.2953058-	02	.2401552-	02
.350000	05	.4003502	03	.6349751	02-	.2196552	03	.3032455-	02	.2497398-	02
.360000	05	.3435593	03	.5376963	02-	.2225988	03	.3108443-	02	.2591571-	02
.370000	05	.2954313	03	.4563379	02-	.2255423	03	.3181012-	02	.2681615-	02
.380000	05	.2545945	03	.3873829	02-	.2289638	03	.3249300-	02	.2781595-	02
.390000	05	.2199470	03	.3287229	02-	.2331022	03	.3311040-	02	.2895090-	02
.400000	05	.1905130	03	.2797652	02-	.2372406	03	.3365222-	02	.2998342-	02
.410000	05	.1654357	03	.2387745	02-	.2413790	03	.3412427-	02	.3091815-	02
.420000	05	.1440106	03	.2043480	02-	.2455174	03	.3453081-	02	.3176572-	02
.430000	05	.1256566	03	.1753484	02-	.2496557	03	.3487643-	02	.3252976-	02
.440000	05	.1098923	03	.1508495	02-	.2537941	03	.3516523-	02	.3321990-	02
.450000	05	.9622558	02	.1318791	02-	.2541984	03	.3546282-	02	.3293033-	02
.460000	05	.8426199	02	.1154876	02-	.2541877	03	.3584438-	02	.3262493-	02
.470000	05	.7378886	02	.1011376	02-	.2541770	03	.3630711-	02	.3241724-	02
.480000	05	.6462023	02	.8857446	03-	.2541664	03	.3683015-	02	.3272995-	02
.490000	05	.5659310	02	.7757500	03-	.2541557	03	.3735315-	02	.3328603-	02
.500000	05	.4956515	02	.6794428	03-	.2541450	03	.3787194-	02	.3383553-	02
.510000	05	.4341181	02	.5951174	03-	.2541343	03	.3838626-	02	.3437893-	02
.520000	05	.3802389	02	.5212782	03-	.2541237	03	.3889614-	02	.3491912-	02
.530000	05	.3328268	02	.4615781	03-	.2512067	03	.3943539-	02	.3501554-	02
.540000	05	.2908855	02	.4081564	03-	.2482868	03	.4001334-	02	.3535385-	02
.550000	05	.2538356	02	.3604082	03-	.2453669	03	.4062547-	02	.3572747-	02
.560000	05	.2211531	02	.3177857	03-	.2424471	03	.4127202-	02	.3613888-	02
.570000	05	.1924030	02	.2790602	03-	.2401995	03	.4194183-	02	.3675116-	02
.580000	05	.1673107	02	.2422208	03-	.2406413	03	.4257853-	02	.3802874-	02
.590000	05	.1455343	02	.2103084	03-	.2410831	03	.4313779-	02	.3920669-	02
.600000	05	.1266377	02	.1825067	03-	.2417365	03	.4361785-	02	.4034167-	02
.610000	05	.1103005	02	.1572980	03-	.2442938	03	.4398630-	02	.4180184-	02
.620000	05	.9621332	01	.1357870	03-	.2468511	03	.4421025-	02	.4325893-	02
.630000	05	.8404711	01	.1174005	03-	.2494084	03	.4424884-	02	.4475792-	02
.640000	05	.7355135	01	.1011269	03-	.2533857	03	.4406911-	02	.4631475-	02
.650000	05	.6450282	01	.8731488	04-	.2573644	03	.4364745-	02	.4760583-	02
.660000	05	.5668378	01	.7556240	04-	.2613432	03	.4297790-	02	.4864242-	02
.670000	05	.4989764	01	.6581255	04-	.2641371	03	.4206739-	02	.4923437-	02
.680000	05	.4398461	01	.5740684	04-	.2669287	03	.4091926-	02	.4963371-	02
.690000	05	.3882471	01	.5014790	04-	.2697203	03	.3951681-	02	.4985210-	02
.700000	05	.3434771	01	.4324749	04-	.2766910	03	.3778118-	02	.5059406-	02
.710000	05	.3048091	01	.3743508	04-	.2836661	03	.3562664-	02	.5102812-	02
.720000	05	.2711555	01	.3277919	04-	.2881897	03	.3305016-	02	.5077683-	02
.730000	05	.2405613	01	.3096518	04-	.2706514	03	.3036111-	02	.4648813-	02
.740000	05	.2117218	01	.2914131	04-	.2531131	03	.2792645-	02	.4189285-	02
.750000	05	.1852745	01	.2604541	04-	.2478236	03	.2560451-	02	.3991831-	02
.760000	05	.1617182	01	.2313118	04-	.2435676	03	.2315597-	02	.3808571-	02

# TABLE 8

## 14 DEC 1957, 2100 GMT, CHURCHILL

HEIGHT		PRESSURE		DENSITY		TEMPERATURE		PRESSURE		DENSITY	
meters		nt/sq meter		kg/cu meter		degrees Kelvin		dev. from std atmosphere (%)		dev. from std atmosphere (%)	
.300000	05	.9252736	03	.1567545	01-	.2056403	03	.2270255-	02	.1485359-	02
.310000	05	.7853949	03	.1316844	01-	.2077838	03	.2384123-	02	.1661319-	02
.320000	05	.6678190	03	.1108275	01-	.2099274	03	.2488509-	02	.1823862-	02
.330000	05	.5688030	03	.9345403	02-	.2120420	03	.2587032-	02	.1924822-	02
.340000	05	.4852431	03	.7898068	02-	.2140409	03	.2685644-	02	.2011986-	02
.350000	05	.4145910	03	.6685661	02-	.2160397	03	.2784615-	02	.2100501-	02
.360000	05	.3547567	03	.5668335	02-	.2180386	03	.2883830-	02	.2190116-	02
.370000	05	.3040327	03	.4807964	02-	.2203014	03	.2982478-	02	.2289367-	02
.380000	05	.2610087	03	.4080777	02-	.2228282	03	.3079227-	02	.2395972-	02
.390000	05	.2244694	03	.3470148	02-	.2253551	03	.3173507-	02	.2499733-	02
.400000	05	.1933792	03	.2956365	02-	.2278819	03	.3265404-	02	.2601133-	02
.410000	05	.1669545	03	.2508532	02-	.2318658	03	.3351947-	02	.2742356-	02
.420000	05	.1445157	03	.2133240	02-	.2360117	03	.3430120-	02	.2876854-	02
.430000	05	.1254130	03	.1819301	02-	.2401575	03	.3500268-	02	.2999728-	02
.440000	05	.1090891	03	.1558798	02-	.2438089	03	.3563916-	02	.3099306-	02
.450000	05	.9506026	02	.1344562	02-	.2463067	03	.3624439-	02	.3161968-	02
.460000	05	.8295421	02	.1161551	02-	.2488045	03	.3684011-	02	.3223550-	02
.470000	05	.7249149	02	.1004960	02-	.2513022	03	.3742697-	02	.3284597-	02
.480000	05	.6342703	02	.8723958	03-	.2532905	03	.3799657-	02	.3374376-	02
.490000	05	.5555317	02	.7587939	03-	.2550605	03	.3850431-	02	.3474423-	02
.500000	05	.4870340	02	.6606493	03-	.2568304	03	.3895210-	02	.3566565-	02
.510000	05	.4273137	02	.5771537	03-	.2579369	03	.3935199-	02	.3635971-	02
.520000	05	.3748890	02	.5094022	03-	.2563894	03	.3975587-	02	.3640182-	02
.530000	05	.3286488	02	.4492825	03-	.2548418	03	.4019565-	02	.3674660-	02
.540000	05	.2878931	02	.3959715	03-	.2532943	03	.4063044-	02	.3728376-	02
.550000	05	.2519434	02	.3497796	03-	.2509382	03	.4106807-	02	.3762289-	02
.560000	05	.2201942	02	.3090298	03-	.2482354	03	.4152666-	02	.3789844-	02
.570000	05	.1921705	02	.2726689	03-	.2455327	03	.4201199-	02	.3819975-	02
.580000	05	.1674614	02	.2403912	03-	.2426914	03	.4252679-	02	.3849686-	02
.590000	05	.1456466	02	.2126587	03-	.2386027	03	.4309391-	02	.3852729-	02
.600000	05	.1263739	02	.1877356	03-	.2345140	03	.4373531-	02	.3863245-	02
.610000	05	.1093829	02	.1653779	03-	.2304253	03	.4445226-	02	.3881237-	02
.620000	05	.9457819	01	.1426178	03-	.2310337	03	.4515839-	02	.4040458-	02
.630000	05	.8193087	01	.1207730	03-	.2363393	03	.4565260-	02	.4317099-	02
.640000	05	.7120445	01	.1026568	03-	.2416448	03	.4585377-	02	.4550255-	02
.650000	05	.6207388	01	.8757043	04-	.2469503	03	.4576948-	02	.4745249-	02
.660000	05	.5418440	01	.7669120	04-	.2461427	03	.4549220-	02	.4787521-	02
.670000	05	.4726963	01	.6731082	04-	.2446558	03	.4511859-	02	.4807866-	02
.680000	05	.4120473	01	.5903333	04-	.2431689	03	.4465322-	02	.4821184-	02
.690000	05	.3588620	01	.5179467	04-	.2413796	03	.4409457-	02	.4820533-	02
.700000	05	.3121927	01	.4548151	04-	.2391366	03	.4344817-	02	.4804190-	02
.710000	05	.2712482	01	.3989070	04-	.2368936	03	.4271446-	02	.4781572-	02
.720000	05	.2353690	01	.3494506	04-	.2346506	03	.4188607-	02	.4752443-	02
.730000	05	.2039909	01	.3052758	04-	.2327965	03	.4094768-	02	.4724435-	02
.740000	05	.1766071	01	.2663052	04-	.2310398	03	.3988006-	02	.4689932-	02
.750000	05	.1527381	01	.2320779	04-	.2292830	03	.3866925-	02	.4646416-	02
.760000	05	.1319548	01	.2020216	04-	.2275545	03	.3729875-	02	.4592569-	02
.770000	05	.1138870	01	.1754967	04-	.2260808	03	.3574779-	02	.4532813-	02
.780000	05	.9820306	00	.1523210	04-	.2246070	03	.3399001-	02	.4461053-	02
.790000	05	.8460038	00	.1320889	04-	.2231332	03	.3200420-	02	.4376805-	02
.800000	05	.7281990	00	.1143130	04-	.2219282	03	.2975121-	02	.4281490-	02
.810000	05	.6263732	00	.9874495	05-	.2209920	03	.2733826-	02	.4058667-	02
.820000	05	.5384668	00	.8524805	05-	.2200557	03	.2489061-	02	.3831545-	02
.830000	05	.4626205	00	.7355330	05-	.2191194	03	.2241035-	02	.3604060-	02
.840000	05	.3972711	00	.6332393	05-	.2185633	03	.1989208-	02	.3378235-	02
.850000	05	.3410473	00	.5447691	05-	.2181023	03	.1732186-	02	.3151865-	02
.860000	05	.2927001	00	.4685325	05-	.2176413	03	.1469703-	02	.2919261-	02



# TABLE 9

## 27 JAN 1958, 0604 GMT, CHURCHILL

HEIGHT meters	PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin	PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)
.2700000	05 .1705783	04 .2892176	01- .2054742	03 .9265415-	01 .1284194-
.2800000	05 .1446394	04 .2449810	01- .2056896	03 .1050595-	02 .2304596-
.2900000	05 .1226722	04 .2075569	01- .2059050	03 .1177329-	02 .3362995-
.3000000	05 .1040493	04 .1760752	01- .2058729	03 .1307711-	02 .4358924-
.3100000	05 .8824617	03 .1496260	01- .2054693	03 .1442879-	02 .5252047-
.3200000	05 .7482302	03 .1271159	01- .2050658	03 .1584059-	02 .6222094-
.3300000	05 .6342424	03 .1079631	01- .2046623	03 .1734189-	02 .6711196-
.3400000	05 .5380788	03 .9053299	02- .2070604	03 .1889222-	02 .8435990-
.3500000	05 .4574390	03 .7597108	02- .2097698	03 .2038904-	02 .1023573-
.3600000	05 .3897150	03 .6389823	02- .2124792	03 .2182591-	02 .1196042-
.3700000	05 .3327210	03 .5384164	02- .2152882	03 .2320309-	02 .1365305-
.3800000	05 .2846825	03 .4542619	02- .2183296	03 .2451503-	02 .1535385-
.3900000	05 .2441175	03 .3841815	02- .2213709	03 .2575977-	02 .1696425-
.4000000	05 .2097821	03 .3256717	02- .2244123	03 .2694458-	02 .1849446-
.4100000	05 .1806764	03 .2762536	02- .2278514	03 .2805549-	02 .2007475-
.4200000	05 .1559696	03 .2348301	02- .2313898	03 .2909410-	02 .2158739-
.4300000	05 .1349482	03 .2001197	02- .2349283	03 .3006089-	02 .2299829-
.4400000	05 .1170182	03 .1709558	02- .2384668	03 .3096107-	02 .2431902-
.4500000	05 .1016883	03 .1463875	02- .2420053	03 .3179907-	02 .2555177-
.4600000	05 .8850939	02 .1264277	02- .2438963	03 .3261049-	02 .2624250-
.4700000	05 .7711551	02 .1094886	02- .2453754	03 .3343561-	02 .2683689-
.4800000	05 .6724690	02 .9490504	03- .2468545	03 .3426244-	02 .2792204-
.4900000	05 .5869168	02 .8233777	03- .2483337	03 .3503008-	02 .2919008-
.5000000	05 .5126845	02 .7149797	03- .2498128	03 .3573691-	02 .3037494-
.5100000	05 .4481846	02 .6220251	03- .2510194	03 .3638981-	02 .3141194-
.5200000	05 .3920022	02 .5428167	03- .2515900	03 .3700579-	02 .3223007-
.5300000	05 .3429811	02 .4738610	03- .2521607	03 .3758760-	02 .3328626-
.5400000	05 .3001928	02 .4138085	03- .2527313	03 .3809398-	02 .3445864-
.5500000	05 .2627642	02 .3628003	03- .2523229	03 .3853699-	02 .3530087-
.5600000	05 .2299475	02 .3183141	03- .2516697	03 .3893665-	02 .3603270-
.5700000	05 .2011678	02 .2791994	03- .2510165	03 .3929702-	02 .3671962-
.5800000	05 .1759371	02 .2447992	03- .2503835	03 .3961790-	02 .3736909-
.5900000	05 .1538283	02 .2145102	03- .2498311	03 .3989720-	02 .3799209-
.6000000	05 .1344634	02 .1879218	03- .2492787	03 .4013365-	02 .3857160-
.6100000	05 .1175063	02 .1645877	03- .2487264	03 .4032699-	02 .3910473-
.6200000	05 .1026515	02 .1443028	03- .2478272	03 .4047703-	02 .3970048-
.6300000	05 .8963068	01 .1265337	03- .2467793	03 .4054507-	02 .4046034-
.6400000	05 .7821962	01 .1108953	03- .2457314	03 .4051921-	02 .4112899-
.6500000	05 .6822385	01 .9715151	04- .2446498	03 .4039659-	02 .4170326-
.6600000	05 .5946689	01 .8516354	04- .2432650	03 .4017818-	02 .4211681-
.6700000	05 .5179554	01 .7460194	04- .2418803	03 .3986388-	02 .4245453-
.6800000	05 .4507998	01 .6530327	04- .2404955	03 .3944794-	02 .4271140-
.6900000	05 .3919929	01 .5724057	04- .2385791	03 .3893327-	02 .4275943-
.7000000	05 .3404523	01 .5019211	04- .2363083	03 .3832911-	02 .4266052-
.7100000	05 .2952993	01 .4395772	04- .2340375	03 .3763504-	02 .4249532-
.7200000	05 .2558139	01 .3840556	04- .2320535	03 .3683811-	02 .4232793-
.7300000	05 .2215234	01 .3317210	04- .2326509	03 .3587230-	02 .4267428-
.7400000	05 .1919088	01 .2866387	04- .2332482	03 .3467111-	02 .4284487-
.7500000	05 .1663218	01 .2477868	04- .2338456	03 .3321481-	02 .4284042-
.7600000	05 .1442893	01 .2126681	04- .2363686	03 .3143774-	02 .4307598-
.7700000	05 .1254171	01 .1819225	04- .2401754	03 .2924282-	02 .4332632-
.7800000	05 .1092585	01 .1560110	04- .2439822	03 .2655877-	02 .4326871-
.7900000	05 .9537102	00 .1344662	04- .2470936	03 .2334751-	02 .4275598-
.8000000	05 .8325137	00 .1188926	04- .2439466	03 .1968804-	02 .4052397-
.8100000	05 .7254685	00 .1049593	04- .2407997	03 .1584282-	02 .3684761-
.8200000	05 .6310707	00 .9251098	05- .2376528	03 .1197352-	02 .3306007-
.8300000	05 .5478687	00 .8158604	05- .2339477	03 .8112717-	02 .2905561-
.8400000	05 .4745302	00 .7191816	05- .2298706	03 .4313146-	01 .2479539-
.8500000	05 .4099717	00 .6325583	05- .2257935	03 .6129164-	00 .2048293-
.8600000	05 .3532699	00 .5550946	05- .2217164	03 .2955140	01 .1611083-

# TABLE 10

## 27 JAN 1958, 1848 GMT, CHURCHILL

HEIGHT		PRESSURE		DENSITY		TEMPERATURE		PRESSURE		DENSITY	
meters		nt/sq meter		kg/cu meter		degrees Kelvin		dev. from std atmosphere (%)		dev. from std atmosphere (%)	
.300000	05	.1050519	04	.1789140	01-	.2045586	03	.1223955-	02	.2816955-	01
.310000	05	.8898690	03	.1521722	01-	.2037271	03	.1371051-	02	.3639689-	01
.320000	05	.7533135	03	.1293484	01-	.2028957	03	.1526884-	02	.4575154-	01
.330000	05	.6373107	03	.1098803	01-	.2020643	03	.1694200-	02	.5054628-	01
.340000	05	.5397175	03	.9161429	02-	.2052397	03	.1864521-	02	.7342382-	01
.350000	05	.4582609	03	.7660082	02-	.2084191	03	.2024600-	02	.9491664-	01
.360000	05	.3900826	03	.6422471	02-	.2115985	03	.2175217-	02	.1151060-	02
.370000	05	.3328628	03	.5399255	02-	.2147779	03	.2317037-	02	.1341103-	02
.380000	05	.2848735	03	.4520780	02-	.2195315	03	.2446440-	02	.1576080-	02
.390000	05	.2446292	03	.3799794	02-	.2242882	03	.2560414-	02	.1787247-	02
.400000	05	.2107526	03	.3205608	02-	.2290449	03	.2660360-	02	.1977354-	02
.410000	05	.1821327	03	.2713930	02-	.2338016	03	.2747558-	02	.2148101-	02
.420000	05	.1578698	03	.2305487	02-	.2385584	03	.2823022-	02	.2301699-	02
.430000	05	.1371469	03	.1981068	02-	.2411819	03	.2892137-	02	.2377281-	02
.440000	05	.1193306	03	.1705225	02-	.2437970	03	.2959680-	02	.2451081-	02
.450000	05	.1039875	03	.1470203	02-	.2464120	03	.3025702-	02	.2522996-	02
.460000	05	.9075271	02	.1269613	02-	.2490270	03	.3090246-	02	.2593123-	02
.470000	05	.7931840	02	.1098118	02-	.2516420	03	.3153413-	02	.2662093-	02
.480000	05	.6942421	02	.9512531	03-	.2542571	03	.3213399-	02	.2775475-	02
.490000	05	.6082124	02	.8307378	03-	.2550642	03	.3267272-	02	.2855711-	02
.500000	05	.5330877	02	.7258358	03-	.2558695	03	.3317944-	02	.2931776-	02
.510000	05	.4674553	02	.6344758	03-	.2566748	03	.3365475-	02	.3003904-	02
.520000	05	.4100747	02	.5551430	03-	.2573453	03	.3410157-	02	.3069115-	02
.530000	05	.3598745	02	.4859184	03-	.2580155	03	.3451350-	02	.3158872-	02
.540000	05	.3159398	02	.4254905	03-	.2586858	03	.3484663-	02	.3260838-	02
.550000	05	.2774733	02	.3727202	03-	.2593561	03	.3509640-	02	.3353184-	02
.560000	05	.2437816	02	.3266192	03-	.2600263	03	.3526295-	02	.3436372-	02
.570000	05	.2142173	02	.2871031	03-	.2599410	03	.3535930-	02	.3492824-	02
.580000	05	.1882385	02	.2523701	03-	.2598535	03	.3539605-	02	.3543209-	02
.590000	05	.1654092	02	.2218378	03-	.2597659	03	.3537239-	02	.3587390-	02
.600000	05	.1453481	02	.1949986	03-	.2596785	03	.3528752-	02	.3625829-	02
.610000	05	.1277193	02	.1714056	03-	.2595910	03	.3514055-	02	.3658221-	02
.620000	05	.1122280	02	.1506663	03-	.2595035	03	.3492405-	02	.3704135-	02
.630000	05	.9861626	01	.1324372	03-	.2594160	03	.3458465-	02	.3768250-	02
.640000	05	.8657766	01	.1179441	03-	.2557336	03	.3416347-	02	.3738701-	02
.650000	05	.7586825	01	.1048677	03-	.2520440	03	.3371810-	02	.3707307-	02
.660000	05	.6635699	01	.9308355	04-	.2483544	03	.3324696-	02	.3673381-	02
.670000	05	.5792430	01	.8247977	04-	.2444648	03	.3274821-	02	.3637783-	02
.680000	05	.5048333	01	.7251859	04-	.2425252	03	.3219007-	02	.3638162-	02
.690000	05	.4394662	01	.6368894	04-	.2403918	03	.3153761-	02	.3631106-	02
.700000	05	.3821070	01	.5587209	04-	.2382584	03	.3078361-	02	.3617171-	02
.710000	05	.3318443	01	.4893332	04-	.2362588	03	.2991701-	02	.3598634-	02
.720000	05	.2878607	01	.4280986	04-	.2342593	03	.2892555-	02	.3571417-	02
.730000	05	.2494137	01	.3741145	04-	.2322598	03	.2779846-	02	.3534813-	02
.740000	05	.2158438	01	.3265718	04-	.2302603	03	.2652326-	02	.3488229-	02
.750000	05	.1869176	01	.2779531	04-	.2342809	03	.2494473-	02	.3588163-	02
.760000	05	.1622725	01	.2372216	04-	.2383136	03	.2289259-	02	.3650384-	02
.770000	05	.1412176	01	.2030067	04-	.2423463	03	.2032858-	02	.3675802-	02
.780000	05	.1230591	01	.1765541	04-	.2428254	03	.1728230-	02	.3579850-	02
.790000	05	.1072691	01	.1535993	04-	.2433009	03	.1378463-	02	.3461076-	02
.800000	05	.9353443	00	.1336712	04-	.2437764	03	.9768055-	01	.3313094-	02
.810000	05	.8158342	00	.1163649	04-	.2442519	03	.5360042-	01	.2998500-	02
.820000	05	.7106344	00	.1036395	04-	.2388795	03	.8753754-	00	.2500756-	02
.830000	05	.6170836	00	.9207123	05-	.2334953	03	.3495845	01	.1993806-	02
.840000	05	.5341104	00	.8157229	05-	.2281112	03	.7700930	01	.1470010-	02
.850000	05	.4607231	00	.7206514	05-	.2227270	03	.1169046	02	.9408989-	01
.860000	05	.3960030	00	.6347624	05-	.2173429	03	.1540902	02	.4070955-	01
.870000	05	.3391005	00	.5573594	05-	.2119587	03	.1879924	02	.1264435	01

# TABLE 11

## 12 NOV 1958, 1140 GMT, GUAM

HEIGHT		PRESSURE		DENSITY		TEMPERATURE		PRESSURE		DENSITY	
meters		nt/sq meter		kg/cu meter		degrees Kelvin		dev. from std atmosphere (%)		dev. from std atmosphere (%)	
.280000	05	.1580858	04	.2450389	01-	.2247584	03	.2186131-	01	.2281488-	01
.290000	05	.1361272	04	.2089024	01-	.2270177	03	.2096333-	01	.2736566-	01
.300000	05	.1173979	04	.1783849	01-	.2292770	03	.1925665-	01	.3104345-	01
.310000	05	.1013972	04	.1525686	01-	.2315363	03	.1676369-	01	.3388689-	01
.320000	05	.8770599	03	.1306926	01-	.2337956	03	.1350093-	01	.3583472-	01
.330000	05	.7597275	03	.1121251	01-	.2360549	03	.9879432-	00	.3114921-	01
.340000	05	.6590218	03	.9634028	02-	.2383143	03	.6617604-	00	.2562564-	01
.350000	05	.5724580	03	.8289986	02-	.2405736	03	.3715691-	00	.2048978-	01
.360000	05	.4979410	03	.7143787	02-	.2428329	03	.1165494-	00	.1572248-	01
.370000	05	.4337023	03	.6164820	02-	.2450922	03	.1048696	00	.1133494-	01
.380000	05	.3782464	03	.5327437	02-	.2473515	03	.2938892	00	.7297380-	00
.390000	05	.3303058	03	.4610107	02-	.2496108	03	.4515719	00	.3586237-	00
.400000	05	.2888060	03	.3994732	02-	.2518702	03	.5791732	00	.2420548-	01-
.410000	05	.2528337	03	.3466077	02-	.2541295	03	.6772225	00	.2799707	00
.420000	05	.2216118	03	.3011286	02-	.2563888	03	.7477511	00	.5504965	00
.430000	05	.1944781	03	.2619507	02-	.2586481	03	.7914521	00	.7929267	00
.440000	05	.1708191	03	.2290883	02-	.2597716	03	.7806472	00	.1415887	01
.450000	05	.1501180	03	.2006771	02-	.2606113	03	.6821175	00	.2058236	01
.460000	05	.1319857	03	.1758713	02-	.2614509	03	.4916527	00	.2602729	01
.470000	05	.1160961	03	.1542031	02-	.2622905	03	.2115599	00	.3042520	01
.480000	05	.1021654	03	.1352668	02-	.2631301	03	.1277060-	00	.2731680	01
.490000	05	.8994633	02	.1187100	02-	.2639698	03	.4321314-	00	.2089809	01
.500000	05	.7922391	02	.1042272	02-	.2648094	03	.6957869-	00	.1496927	01
.510000	05	.6981047	02	.9155255	03-	.2656490	03	.9190185-	00	.9511166	00
.520000	05	.6154251	02	.8045530	03-	.2664886	03	.1102044-	01	.4473583	00
.530000	05	.5427746	02	.7073474	03-	.2673283	03	.1231103-	01	.4142612-	00
.540000	05	.4787990	02	.6241075	03-	.2672711	03	.1261662-	01	.1150269-	01
.550000	05	.4220171	02	.5576977	03-	.2636266	03	.1286241-	01	.5443027-	00
.560000	05	.3713307	02	.4975943	03-	.2599822	03	.1391840-	01	.5146773-	02-
.570000	05	.3261556	02	.4432721	03-	.2563377	03	.1581617-	01	.4673657	00
.580000	05	.2859564	02	.3942432	03-	.2526933	03	.1859006-	01	.8655719	00

TABLE 12  
14 NOV 1958, 1109 GMT, GUAM

HEIGHT		PRESSURE		DENSITY		TEMPERATURE		PRESSURE		DENSITY	
meters		nt/sq meter		kg/cu meter		degrees Kelvin		dev. from std atmosphere (%)		dev. from std atmosphere (%)	
.2900000	05	.1356550	04	.2048526	01-	.2307026	03	.2435963-	01	.4622123-	01
.3000000	05	.1172631	04	.1754249	01-	.2328779	03	.2038269-	01	.4712139-	01
.3100000	05	.1015068	04	.1504482	01-	.2350532	03	.1570120-	01	.4731369-	01
.3200000	05	.8798840	03	.1292161	01-	.2372285	03	.1032444-	01	.4672746-	01
.3300000	05	.7637326	03	.1111395	01-	.2394039	03	.4659639-	00	.3966583-	01
.3400000	05	.6637928	03	.9572627	02-	.2415792	03	.5739997	01-	.3183559-	01
.3500000	05	.5776817	03	.8256463	02-	.2437545	03	.5375429	00	.2445071-	01
.3600000	05	.5033839	03	.7130932	02-	.2459298	03	.9752767	00	.1749366-	01
.3700000	05	.4392267	03	.6160539	02-	.2483866	03	.1379971	01	.1202161-	01
.3800000	05	.3837966	03	.5326378	02-	.2510310	03	.1765569	01	.7494782-	00
.3900000	05	.3358502	03	.4612384	02-	.2536754	03	.2137709	01	.3094076-	00
.4000000	05	.2943127	03	.4000231	02-	.2563197	03	.2496912	01	.1134057	00
.4100000	05	.2582727	03	.3474538	02-	.2589641	03	.2843011	01	.5247716	00
.4200000	05	.2269562	03	.3022374	02-	.2616085	03	.3177377	01	.9207414	00
.4300000	05	.1997042	03	.2632847	02-	.2642529	03	.3499974	01	.1306213	01
.4400000	05	.1759555	03	.2296766	02-	.2668973	03	.3811024	01	.1676331	01
.4500000	05	.1551381	03	.2024550	02-	.2669611	03	.4049006	01	.2962442	01
.4600000	05	.1367929	03	.1784737	02-	.2670224	03	.4151786	01	.4120943	01
.4700000	05	.1206261	03	.1573448	02-	.2670836	03	.4121780	01	.5141846	01
.4800000	05	.1063773	03	.1387268	02-	.2671448	03	.3989718	01	.5359463	01
.4900000	05	.9381124	02	.1224048	02-	.2670020	03	.3846220	01	.5267303	01
.5000000	05	.8269194	02	.1087021	02-	.2650229	03	.3651263	01	.5854628	01
.5100000	05	.7282459	02	.9645133	03-	.2630437	03	.3358870	01	.6352793	01
.5200000	05	.6407569	02	.8550736	03-	.2610645	03	.2968722	01	.6754784	01
.5300000	05	.5632521	02	.7573874	03-	.2590854	03	.2495200	01	.6630743	01
.5400000	05	.4946915	02	.6695171	03-	.2574133	03	.2015716	01	.6041963	01
.5500000	05	.4342055	02	.5898446	03-	.2564577	03	.1564726	01	.5188532	01
.5600000	05	.3809449	02	.5194284	03-	.2555022	03	.1161249	01	.4382559	01
.5700000	05	.3340674	02	.4572197	03-	.2545466	03	.8058016	00	.3628582	01
.5800000	05	.2928257	02	.4022846	03-	.2535911	03	.4985816	00	.2922944	01
.5900000	05	.2564077	02	.3567426	03-	.2504000	03	.1819620	00	.3122684	01
.6000000	05	.2241121	02	.3165501	03-	.2466500	03	.2198912-	00	.3474783	01
.6100000	05	.1954890	02	.2803838	03-	.2429000	03	.7251851-	00	.3738283	01
.6200000	05	.1701667	02	.2478919	03-	.2391500	03	.1328034-	01	.3586115	01
.6300000	05	.1478065	02	.2187487	03-	.2354000	03	.1955136-	01	.2930863	01
.6400000	05	.1281142	02	.1923778	03-	.2320066	03	.2577707-	01	.2127645	01
.6500000	05	.1108251	02	.1687109	03-	.2288511	03	.3178254-	01	.1236681	01
.6600000	05	.9568072	01	.1476929	03-	.2256955	03	.3748206-	01	.3826047	00
.6700000	05	.8243896	01	.1290573	03-	.2225400	03	.4285973-	01	.4494437-	00

# TABLE 13

## 19 NOV 1958, 1801 GMT, GUAM

HEIGHT		PRESSURE		DENSITY		TEMPERATURE		PRESSURE		DENSITY	
meters		nt/sq meter		kg/cu meter		degrees Kelvin		dev. from std atmosphere (%)		dev. from td atmosphere (%)	
.2900000	05	.1377687	04	.2096857	01-	.2288969	03	.9157601-	00	.2371859-	01
.3000000	05	.1189475	04	.1794711	01-	.2308973	03	.6311398-	00	.2514318-	01
.3100000	05	.1028324	04	.1538236	01-	.2328978	03	.2846327-	00	.2593939-	01
.3200000	05	.8901543	03	.1320212	01-	.2348982	03	.1227413	00	.2603292-	01
.3300000	05	.7715272	03	.1134610	01-	.2368986	03	.5498595	00	.1960550-	01
.3400000	05	.6695433	03	.9763879	02-	.2388990	03	.9242049	00	.1249271-	01
.3500000	05	.5817531	03	.8413196	02-	.2408995	03	.1246127	01	.5931881-	00
.3600000	05	.5060838	03	.7258606	02-	.2428999	03	.1516849	01	.9739371	02-
.3700000	05	.4408612	03	.6254643	02-	.2455600	03	.1757257	01	.3070056	00
.3800000	05	.3846398	03	.5396938	02-	.2482933	03	.1989155	01	.5653256	00
.3900000	05	.3361038	03	.4664572	02-	.2510266	03	.2214833	01	.8185682	00
.4000000	05	.2941340	03	.4038129	02-	.2537600	03	.2434674	01	.1061883	01
.4100000	05	.2577836	03	.3501366	02-	.2564933	03	.2648264	01	.1307059	01
.4200000	05	.2262510	03	.3040669	02-	.2592266	03	.2856804	01	.1531607	01
.4300000	05	.1988554	03	.2644604	02-	.2619599	03	.3060069	01	.1758606	01
.4400000	05	.1750183	03	.2303556	02-	.2646933	03	.3258094	01	.1976901	01
.4500000	05	.1542469	03	.2009416	02-	.2674266	03	.3451267	01	.2192762	01
.4600000	05	.1361207	03	.1755340	02-	.2701600	03	.3639943	01	.2405962	01
.4700000	05	.1202405	03	.1543288	02-	.2714326	03	.3788921	01	.3126488	01
.4800000	05	.1062254	03	.1368033	02-	.2705142	03	.3841234	01	.3898600	01
.4900000	05	.9380808	02	.1212230	02-	.2695959	03	.3842724	01	.4250991	01
.5000000	05	.8281040	02	.1073771	02-	.2686775	03	.3799740	01	.4564333	01
.5100000	05	.7307360	02	.9507674	03-	.2677591	03	.3712283	01	.4837089	01
.5200000	05	.6445308	02	.8422033	03-	.2666152	03	.3575192	01	.5147937	01
.5300000	05	.5681804	02	.7462702	03-	.2652456	03	.3391994	01	.5065588	01
.5400000	05	.5005671	02	.6608767	03-	.2638760	03	.3227377	01	.4673447	01
.5500000	05	.4407269	02	.5849080	03-	.2625065	03	.3090146	01	.4308187	01
.5600000	05	.3877971	02	.5173619	03-	.2611369	03	.2980872	01	.3967273	01
.5700000	05	.3407619	02	.4621741	03-	.2568642	03	.2825894	01	.4751495	01
.5800000	05	.2987699	02	.41266018	03-	.2522690	03	.2538652	01	.5562557	01
.5900000	05	.2613310	02	.3675945	03-	.2476738	03	.2105549	01	.6259620	01
.6000000	05	.2280207	02	.3268028	03-	.2430786	03	.1520293	01	.6826224	01
.6100000	05	.1984913	02	.2890440	03-	.2392410	03	.7994674	00	.6942439	01
.6200000	05	.1724232	02	.2548251	03-	.2357282	03	.1960912-	01-	.6483279	01
.6300000	05	.1494690	02	.2242427	03-	.2322154	03	.8523946-	00	.5516040	01
.6400000	05	.1292946	02	.1969552	03-	.2287025	03	.1680113-	01	.4557638	01
.6500000	05	.1116522	02	.1715829	03-	.2267000	03	.2455610-	01	.2960060	01
.6600000	05	.9630812	01	.1490712	03-	.2250750	03	.3117068-	01	.1319414	01
.6700000	05	.8298764	01	.1293872	03-	.2234500	03	.3648943-	01	.1949984-	00

# TABLE 14

## 20 NOV 1958, 1438 GMT, GUAM

HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.280000	05	.1583706	04	.2446023	01-	.2255652	03	.2009921-	01	.2455600-	01
.290000	05	.1364544	04	.2084721	01-	.2280330	03	.1861036-	01	.2936914-	01
.300000	05	.1177651	04	.1779928	01-	.2305008	03	.1618906-	01	.3317340-	01
.310000	05	.1017998	04	.1522325	01-	.2329686	03	.1286026-	01	.3601474-	01
.320000	05	.8813798	03	.1304210	01-	.2354364	03	.8641938-	00	.3783829-	01
.330000	05	.7642780	03	.1119199	01-	.2379043	03	.3948909-	00	.3292237-	01
.340000	05	.6637398	03	.9619932	02-	.2403721	03	.4940501	01-	.2705125-	01
.350000	05	.5772830	03	.8281841	02-	.2428399	03	.4681579	00	.2145220-	01
.360000	05	.5028185	03	.7140988	02-	.2453077	03	.8618616	00	.1610814-	01
.370000	05	.4385837	03	.6166693	02-	.2477755	03	.1231570	01	.1103465-	01
.380000	05	.3830898	03	.5333303	02-	.2502433	03	.1578152	01	.6204334-	00
.390000	05	.3350760	03	.4619309	02-	.2527111	03	.1902243	01	.1597260-	00
.400000	05	.2934735	03	.4006657	02-	.2551789	03	.2204663	01	.2742433	00
.410000	05	.2573734	03	.3480501	02-	.2576202	03	.2484893	01	.6972996	00
.420000	05	.2259891	03	.3030177	02-	.2598231	03	.2737754	01	.1181265	01
.430000	05	.1986579	03	.2641311	02-	.2620260	03	.2957683	01	.1631875	01
.440000	05	.1748277	03	.2305090	02-	.2642289	03	.3145608	01	.2044826	01
.450000	05	.1540254	03	.2014023	02-	.2664318	03	.3302743	01	.2427049	01
.460000	05	.1358453	03	.1761735	02-	.2686347	03	.3430277	01	.2779046	01
.470000	05	.1199387	03	.1542795	02-	.2708376	03	.3528378	01	.3093582	01
.480000	05	.1059845	03	.1356655	02-	.2721641	03	.3605698	01	.3034508	01
.490000	05	.9363905	02	.1208302	02-	.2699850	03	.3655605	01	.3913139	01
.500000	05	.8265188	02	.1075203	02-	.2678059	03	.3601037	01	.4703829	01
.510000	05	.7288240	02	.9558921	03-	.2656268	03	.3440927	01	.5402170	01
.520000	05	.6420364	02	.8490306	03-	.2634477	03	.3174340	01	.6000323	01
.530000	05	.5650104	02	.7534030	03-	.2612686	03	.2815166	01	.6069793	01
.540000	05	.4967134	02	.6679042	03-	.2590895	03	.2432667	01	.5786498	01
.550000	05	.4361848	02	.5921153	03-	.2566389	03	.2027728	01	.5593468	01
.560000	05	.3825437	02	.5248654	03-	.2539166	03	.1585800	01	.5475172	01
.570000	05	.3350389	02	.4646687	03-	.2511944	03	.1098963	01	.5316909	01
.580000	05	.2930218	02	.4108472	03-	.2484722	03	.5658751	00	.5113639	01
.590000	05	.2559299	02	.3623310	03-	.2460785	03	.4717286-	02-	.4738109	01
.600000	05	.2232494	02	.3191206	03-	.2437214	03	.6039748-	00	.4315057	01
.610000	05	.1944891	02	.2807854	03-	.2413120	03	.1232957-	01	.3886871	01
.620000	05	.1691837	02	.2472021	03-	.2384320	03	.1898036-	01	.3297862	01
.630000	05	.1469281	02	.2173083	03-	.2355520	03	.2537820-	01	.2253123	01

# TABLE 15

## 22 NOV 1958, 0957 GMT, GUAM

HEIGHT meters		PRESSURE nt/sq meter	DENSITY kg/cu meter	TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)	DENSITY dev. from std atmosphere (%)				
.270000	05	.1846557	04	.2874621	01-	.2237898	03	.1777320-	01	.1883365-	01
.280000	05	.1589022	04	.2447841	01-	.2261543	03	.1680989-	01	.2383088-	01
.290000	05	.1369606	04	.2088008	01-	.2285187	03	.1496911-	01	.2783865-	01
.300000	05	.1182350	04	.1784070	01-	.2308832	03	.1226373-	01	.3092355-	01
.310000	05	.1022272	04	.1526688	01-	.2332477	03	.8715411-	00	.3312535-	01
.320000	05	.8852049	03	.1308893	01-	.2356122	03	.4339505-	00	.3438336-	01
.330000	05	.7676526	03	.1123799	01-	.2379767	03	.4491084	01-	.2894777-	01
.340000	05	.6666784	03	.9663766	02-	.2403411	03	.4923573	00	.2261797-	01
.350000	05	.5798112	03	.8322713	02-	.2427056	03	.9081560	00	.1662293-	01
.360000	05	.5049674	03	.7178459	02-	.2450701	03	.1292915	01	.1094531-	01
.370000	05	.4403876	03	.6200588	02-	.2474346	03	.1647943	01	.5598764-	00
.380000	05	.3845833	03	.5363617	02-	.2497990	03	.1974153	01	.5556768-	01-
.390000	05	.3362932	03	.4646158	02-	.2521635	03	.2272440	01	.4205817	00
.400000	05	.2944621	03	.4027426	02-	.2547182	03	.2548936	01	.7940144	00
.410000	05	.2581882	03	.3495949	02-	.2572939	03	.2809350	01	.1144227	01
.420000	05	.2266886	03	.3039011	02-	.2598697	03	.3055753	01	.1476276	01
.430000	05	.1992956	03	.2645556	02-	.2624454	03	.3288218	01	.1795230	01
.440000	05	.1754403	03	.2306254	02-	.2650212	03	.3507084	01	.2096331	01
.450000	05	.1546371	03	.2013218	02-	.2675969	03	.3713008	01	.2386102	01
.460000	05	.1364402	03	.1765702	02-	.2692050	03	.3883230	01	.3010478	01
.470000	05	.1204160	03	.1562101	02-	.2685550	03	.3940402	01	.4383633	01
.480000	05	.1062458	03	.1381621	02-	.2679049	03	.3861117	01	.4930618	01
.490000	05	.9371815	02	.1221676	02-	.2672550	03	.3743168	01	.5063316	01
.500000	05	.8264561	02	.1079965	02-	.2666050	03	.3593186	01	.5167507	01
.510000	05	.7286180	02	.9544427	03-	.2659550	03	.3411679	01	.5242354	01
.520000	05	.6421427	02	.8442033	03-	.2649980	03	.3191431	01	.5397644	01
.530000	05	.5655976	02	.7482963	03-	.2633250	03	.2922005	01	.5350845	01
.540000	05	.4977936	02	.6628016	03-	.2616519	03	.2655429	01	.4978328	01
.550000	05	.4377767	02	.5866416	03-	.2599788	03	.2400091	01	.4617334	01
.560000	05	.3846920	02	.5188446	03-	.2583057	03	.2156305	01	.4265224	01
.570000	05	.3377610	02	.4587958	03-	.2564769	03	.1920362	01	.3985815	01
.580000	05	.2961844	02	.4074531	03-	.2532461	03	.1651299	01	.4245268	01
.590000	05	.2592987	02	.3613199	03-	.2500154	03	.1311517	01	.4445826	01
.600000	05	.2266238	02	.3199231	03-	.2467846	03	.8983575	00	.4577365	01
.610000	05	.1977234	02	.2828273	03-	.2435538	03	.4095360	00	.4642345	01
.620000	05	.1722020	02	.2496324	03-	.2403231	03	.1478370-	00	.4313413	01
.630000	05	.1497341	02	.2193239	03-	.2378444	03	.6764930-	00	.3201565	01
.640000	05	.1300161	02	.1923791	03-	.2354494	03	.1131408-	01	.2128332	01
.650000	05	.1127369	02	.1685260	03-	.2330543	03	.1508017-	01	.1125750	01
.660000	05	.9761450	01	.1474354	03-	.2306592	03	.1802889-	01	.2075524	00
.670000	05	.8439745	01	.1288100	03-	.2282642	03	.2012116-	01	.6401878-	00
.680000	05	.7286144	01	.1123826	03-	.2258691	03	.2131489-	01	.1410115-	01
.690000	05	.6280664	01	.9791217	04-	.2234740	03	.2156464-	01	.2087829-	01
.700000	05	.5405536	01	.8518232	04-	.2210790	03	.2081951-	01	.2687687-	01
.710000	05	.4639753	01	.7501819	04-	.2154698	03	.2011963-	01	.1862593-	01
.720000	05	.3965444	01	.6608229	04-	.2090571	03	.2090935-	01	.7669185-	00
.730000	05	.3372762	01	.5798415	04-	.2026444	03	.2363570-	01	.2041860	00
.740000	05	.2853915	01	.5066756	04-	.1962317	03	.2848081-	01	.1030024	01
.750000	05	.2401647	01	.4407858	04-	.1898190	03	.3563805-	01	.1680696	01
.760000	05	.2009212	01	.3816538	04-	.1834063	03	.4527824-	01	.2155726	01

# TABLE 16

## 24 NOV 1958, 1727 GMT, GUAM

HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.280000	05	.160000	04	.2457735	01-	.2268000	03	.1001735-	01	.1988535-	01
.290000	05	.1379407	04	.2101985	01-	.2286235	03	.7920585-	00	.2133084-	01
.300000	05	.1190685	04	.1800047	01-	.2304470	03	.5300799-	00	.2224500-	01
.310000	05	.1029022	04	.1543436	01-	.2322706	03	.2170434-	00	.2264715-	01
.320000	05	.8903636	03	.1325059	01-	.2340941	03	.1462886	00	.2245762-	01
.330000	05	.7712900	03	.1138978	01-	.2359176	03	.5189564	00	.1583136-	01
.340000	05	.6689093	03	.9802142	02-	.2377412	03	.8286333	00	.8622793-	00
.350000	05	.5807757	03	.8445858	02-	.2395647	03	.1076010	01	.2072626-	00
.360000	05	.5048171	03	.7285781	02-	.2413882	03	.1262754	01	.3841726	00
.370000	05	.4392750	03	.6292309	02-	.2432117	03	.1391115	01	.9110770	00
.380000	05	.3826563	03	.5440495	02-	.2450353	03	.1463207	01	.1376957	01
.390000	05	.3336907	03	.4709270	02-	.2468588	03	.1480955	01	.1784654	01
.400000	05	.2912965	03	.4080830	02-	.2486823	03	.1446504	01	.2130549	01
.410000	05	.2545517	03	.3540107	02-	.2505059	03	.1361329	01	.2421798	01
.420000	05	.2226690	03	.3074327	02-	.2523294	03	.1228357	01	.2655496	01
.430000	05	.1949753	03	.2672654	02-	.2541529	03	.1049146	01	.2837902	01
.440000	05	.1708951	03	.2325883	02-	.2559764	03	.8254795	00	.2965305	01
.450000	05	.1499353	03	.2026185	02-	.2578000	03	.5595567	00	.3045590	01
.460000	05	.1316728	03	.1766894	02-	.2596235	03	.2534302	00	.3079977	01
.470000	05	.1157446	03	.1542322	02-	.2614470	03	.9184830-	01-	.3061968	01
.480000	05	.1018385	03	.1347621	02-	.2632705	03	.4472582-	00	.2348368	01
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.580000	05	.2815038	02	.3863773	03-	.2815055	03	.3387121-	01	.1146871-	01
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.600000	05	.2155676	02	.3040258	03-	.2851525	03	.4024093-	01	.6191889-	00
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.640000	05	.1230994	02	.1860525	03-	.2924480	03	.6391136-	01	.1230304-	01
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.660000	05	.9143566	01	.1455370	03-	.2188772	03	.8018605-	01	.1082725-	01
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.740000	05	.2572104	01	.4205571	04-	.2130697	03	.1244140-	02	.1614182-	02



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