X-621-67-215

NASA TM X-55780

TEMPERATURE, PRESSURE, DENSITY AND WIND MEASUREMENTS IN THE UPPER STRATOSPHERE AND MESOSPHERE, 1965

GPO PRICE $ _____

CFSTI PRICE(S) $ _____

Hard copy (HC) $3.00

Microfiche (MF) .65

ff 653 July 65

MAY 1967

N67 26594 (ACCESSION NUMBER)

(THRU)

97 (PAGES)

0 (CODE)

NASA-TMX-55780 (NASA CR OR TMX OR AD NUMBER)

13 (CATEGORY)

FACILITY FORM 602

NASA

GODDARD SPACE FLIGHT CENTER

GREENBELT, MARYLAND

ERRATUM

All even numbered pages from 8 through 92 should appear as left-hand pages and all odd numbered pages from 9 through 93 should appear as right hand pages. Thus the tabulation of pressure, density, etc. for figure 1 should appear with figure 1 (i.e. pages 8 and 9 should be visible together). The same applies to all 43 figures and tabulations. Subsequent printings will reflect these changes.

X-621-67-215

G-801

TEMPERATURE, PRESSURE, DENSITY AND WIND MEASUREMENTS IN THE UPPER STRATOSPHERE AND MESOSPHERE, 1965

By W. S. Smith, J. S. Theon, P. C. Swartz, L. B. Katchen

Goddard Space Flight Center
Greenbelt, Maryland

and

J. J. Horvath

University of Michigan
Ann Arbor, Michigan

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

ABSTRACT

Complete data are presented from a total of 43 rocket borne experiments conducted at Wallops Island, Virginia, Churchill, Manitoba, Canada, Barrow, Alaska, Ascension Island in the South Atlantic Ocean and from a ship sailing southward from the equator to 60°S latitude off the west coast of South America during 1965. Temperature, pressure, density and wind profiles from 33 grenade experiments and temperature, pressure and density profiles from 10 pitot-static tube experiments covering the altitude range of approximately 30 to 90 kilometers have been compiled. No attempt has been made to analyze the meteorological significance of these data in this report. Error analyses are included for the results of each of the 33 grenade experiments.

CONTENTS

Abstract ii

INTRODUCTION. 1

EXPERIMENTAL METHODS 1

LAUNCH SITES 2

RESULTS 4

ERROR ANALYSIS 4

ACKNOWLEDGMENTS 5

References 5

TEMPERATURE, PRESSURE, DENSITY AND WIND MEASUREMENTS IN THE UPPER STRATOSPHERE AND MESOSPHERE, 1965

by

W. S. Smith, J. S. Theon, P. C. Swartz, L. B. Katchen

Goddard Space Flight Center

and

J. J. Horvath

University of Michigan

INTRODUCTION

In 1965 a total of 43 rocket grenade and pitot-static tube experiments were performed by Goddard Space Flight Center and the University of Michigan under contract to Goddard. These soundings were conducted at Barrow, Alaska (71°N) Churchill, Canada (59°N) Wallops Island, Virginia (38°N), Ascension Island in the South Atlantic Ocean (8°S) and from a ship, the USNS Croatan, at latitudes ranging from the equator to 60°S in the South Pacific Ocean. This report presents the data obtained from these soundings. However no analysis of the meteorological significance of the data has been included herein. Rather it is intended as a record of the unsmoothed measurements which may serve as the basis for further investigation and interpretation of the structure of the upper atmosphere.

The grenade experiment and pitot-static tube experiment are two of several techniques employed in the NASA Meteorological Sounding Rocket Program. The objectives of this program are to obtain as representative as possible a synoptic sample of the structure of the mesosphere and lower thermosphere and to investigate phenomena which occur in these regions. In order to extend the coverage over the widest possible geographic area, to permit more accurate analyses and perhaps eventually to achieve a global network of sounding stations, the NASA soundings are coordinated with soundings in other parts of the world whenever possible. The details of the instrumentation and data processing utilized in this program have been described in detail elsewhere (References 1 and 2).

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 3 to 5 km

intervals as the rocket ascends. During 1965 a 19 grenade payload successfully replaced the earlier 12 grenade payload, resulting in better vertical resolution of the data. The rocket position and hence the exact position of each explosion is 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 infrared photocells in the payload and telemetered to the ground. A ground-based array of hot-wire microphones with frequency response peaked at 4 Hertz is used to detect and record the sound wave generated by each exploding grenade. The measured experimental parameters are the times and position of the grenade explosions and the arrival times of the sound waves at the ground based microphones.

Elevation and azimuth angles of the normal to each arriving sound wave are computed by applying a least squares fit to the arrival times at the various microphones. Each wave is then analytically traced along its path of propagation through the atmosphere by means of Snell's law. Data from radiosonde ascents and from small meteorological rockets obtained at the time of the grenade sounding are utilized to account for the influence of wind and temperature in retracing the propagation of the sound wave from the ground to the first explosion; above this altitude, the results of the experiment itself are used for each successive explosion. The position of the wave as determined by tracing is 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 the two adjacent explosions. The average speed of sound and hence the average temperature of the atmosphere between two adjacent explosions may also be determined. The temperature profile consists of discrete points; each point represents an average value for the vertical layer between consecutive explosions. The temperature profile is used to derive the pressure and density profiles using the pressure measured by the accompanying radiosonde at the top of its ascent. Pressure is calculated from the barometric equation by performing an integration over the temperature profile starting at the known radiosonde pressure (References 3 and 4). The density at one kilometer intervals is then computed from the pressure, temperature and the equation of state.

In the pitot-static tube experiment, two radioactive ionization pressure gages in the payload measure density and ambient pressure as the rocket ascends. The gage measurements 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 temperature profile can be computed from the pressure and density profiles with the equation of state or by integrating the density profile using a form of the hydrostatic equation.

LAUNCH SITES

The grenade experiments were launched from Barrow, Alaska (71°N), Churchill, Canada (59°N) and Wallops Island, Virginia (38°N), because they are typical arctic, sub-arctic and temperate

locations, respectively. The pitot-static tube experiment, which has greater mobility than the grenade experiment, was launched from Ascension Island (8°S) and from a ship at sites along the west coast of South America ranging from the equator to 60°S. Table 1 summarizes the date, time and location of each of the thirty-three grenade experiments and the ten pitot-static tube experiments conducted during 1965. The grenade data include seven synoptic series in which grenade

Table 1

Summary of Sounding Data

Date	Time (GMT)	Location	Experiment
27 January 1965	2132	Barrow	grenade
27 January 1965	2223	Churchill	grenade
27 January 1965	2224	Wallops	grenade
4 February 1965	0445	Barrow	grenade
4 February 1965	0510	Wallops	grenade
4 February 1965	1735	Churchill	grenade
8 February 1965	2215	Barrow	grenade
8 February 1965	2253	Wallops	grenade
8 February 1965	2300	Churchill	grenade
8 March 1965	1748	0°00', 84°04'W	pitot
9 March 1965	0626	0°52'S, 84°09'W	pitot
4 April 1965	1607	24°05'S, 76°08'W	pitot
6 April 1965	1634	35°14'S, 74°15'W	pitot
9 April 1965	2026	44°23'S, 77°47'W	pitot
13 April 1965	0405	60°00'S, 78°00'W	pitot
13 April 1965	1600	60°00'S, 78°00'W	pitot
15 April 1965	1600	52°35'S, 78°20'W	pitot
23 May 1965	0202	Ascension	pitot
23 May 1965	1400	Ascension	pitot
23 July 1965	1705	Wallops	grenade
7 August 1965	1113	Barrow	grenade
7 August 1965	1200	Churchill	grenade
7 August 1965	1939	Barrow	grenade
7 August 1965	1945	Churchill	grenade
7 August 1965	2006	Wallops	grenade
8 August 1965	0340	Wallops	grenade
8 August 1965	0400	Churchill	grenade
8 August 1965	0415	Barrow	grenade
8 August 1965	1003	Churchill	grenade
8 August 1965	1015	Wallops	grenade
9 August 1965	1010	Barrow	grenade
13 October 1965	1601	Barrow	grenade
13 October 1965	1612	Churchill	grenade
13 October 1965	1651	Wallops	grenade
19 October 1965	1730	Barrow	grenade
19 October 1965	1730	Churchill	grenade
19 October 1965	2310	Wallops	grenade
23 October 1965	1538	Barrow	grenade
23 October 1965	1614	Wallops	grenade
23 October 1965	1638	Churchill	grenade
27 October 1965	2342	Barrow	grenade
27 October 1965	2349	Churchill	grenade
28 October 1965	0100	Wallops	grenade

experiments were conducted from Barrow, Churchill and Wallops nearly simultaneously; four series of soundings in which grenade experiments were launched from two of the above sites nearly simultaneously; and two series of experiments consisting of four soundings each and one series of three soundings conducted within a 24 to 48 hour period to study diurnal variations in the atmosphere. One of the diurnal series of four experiments was initiated during a noctilucent cloud display and completed during the confirmed absence of noctilucent clouds. In some cases one experiment served several objectives (i.e., the diurnal soundings were also synoptic, etc.). In addition, the pitot-static tube data include three pairs of day-night soundings. Each pair was launched within a twelve hour interval to examine the diurnal variation of temperature, pressure and density.

RESULTS

The results of the soundings are presented in Figures 1 through 43. 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 deviation from the 1962 U. S. Standard Atmosphere (Reference 5), computed density, and percent density deviation from the U. S. Standard Atmosphere as functions of geometric height (altitude) are compiled (right-hand page). The winds interpolated at five kilometer intervals are tabulated in component form also. The pitot-static tube results present measured pressure and density and derived temperature. The pressure and density deviations from the 1962 U. S. Standard Atmosphere are tabulated with the measured data.

ERROR ANALYSIS

An error analysis has been performed for all the grenade temperatures and winds reported herein when data recovery was redundant. In a few instances, data recovery was sufficient to produce a solution but insufficient to permit an error analysis. The error analysis is based on a study (Reference 6) which demonstrated 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 of 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 made for each grenade explosion. The average of these readings was then used to obtain a least-squares fit for a spherical sound wave with radius equal to the distance between the grenade 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 performed in two parts. Separate calculations were made, first for the even numbered layers between grenades and then

for the odd numbered layers. For each layer a single azimuth and zenith deviation was computed from the formulas

$$\sigma_{az} = \sqrt{\sigma^2_{az_U} + \sigma^2_{az_L}}$$

and

$$\sigma_{zen} = \sqrt{\sigma^2_{zen_U} + \sigma^2_{zen_L}}$$

where the subscripts U and L indicate the azimuth and zenith derivations 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 ΔT_{az} is the change in the temperature induced by the azimuth deviation alone and ΔT_{zen} is the change in temperature caused by the zenith deviation alone. A similar formula is applied for the wind error.

ACKNOWLEDGMENTS

The authors gratefully acknowledge the contributions of the New Mexico State University for the operation of the Doppler tracking system; the Texas Western College for conducting the sound ranging position of the grenade experiments; and the NASA Wallops Station, the Rocket Research Facility at Churchill, the Arctic Research Laboratory at Point Barrow, the USNS Croatan, and the Eastern Test Range at Ascension Island for the range support they provided.

REFERENCES

1. Nordberg, W. and Smith, W. S., "The Rocket-Grenade Experiment," NASA Technical Note D-2107, March 1964.

2. Horvath, J., Simmons, R., and Brace, L., "Theory and Implementation of the Pitot-Static Technique for Upper Atmospheric Measurements," Space Physics Res. Lab. Report NS-1, Univ. of Michigan, March 1962.

3. Theon, J. S. and Nordberg, W., "On the Determination of Pressure and Density Profiles from Temperature Profiles in the Atmosphere," NASA Technical Note D-3009, October 1965.

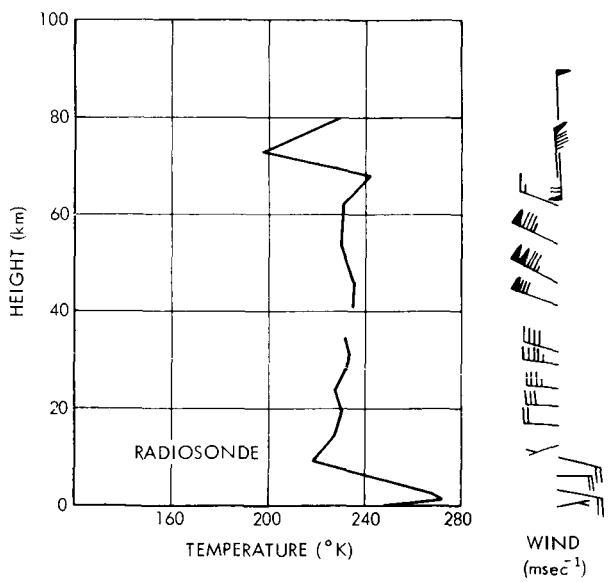
4. "Data Report, Meteorological Rocket Network Firings," IRIG Document 109-62, Vols. XLI to LII, January to December 1965.

5. "U. S. Standard Atmosphere, 1962. ICAO Standard Atmosphere to 20 Kilometers; Proposed ICAO Extension to 32 Kilometers; Tables and Data to 700 Kilometers," NASA, U. S. Air Force and U. S. Weather Bureau, December 1962.

6. Smith, W., Katchen, L., Sacher, P. Swartz, P., and Theon, J., "Temperature, Pressure, Density, and Wind Measurements with the Rocket Grenade Experiment, 1960-1963," NASA Technical Report R-211, October 1964.

FIGURE 1
27 JANUARY 1965, 2132 GMT, BARROW

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
302.143	82.206	12.779	235.036	5.320	41089.400
313.522	132.531	12.624	236.153	5.290	46448.400
322.570	86.639	5.507	229.936	2.366	54323.600
299.729	12.662	3.977	230.630	2.367	62359.600
354.222	92.534	14.122	242.552	6.653	67897.200
172.178	69.514	21.583	198.467	7.900	72668.050
359.123	47.685	9.332	230.587	4.127	79675.290



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
45000.000	- 78.419	88.939
50000.000	- 81.133	76.509
55000.000	- 63.537	49.152
60000.000	- 24.637	23.229
65000.000	- 47.183	10.195
70000.000	- 21.132	1.040
75000.000	30.082	- 6.069

LEGEND

5 m/sec or less

10 m/sec

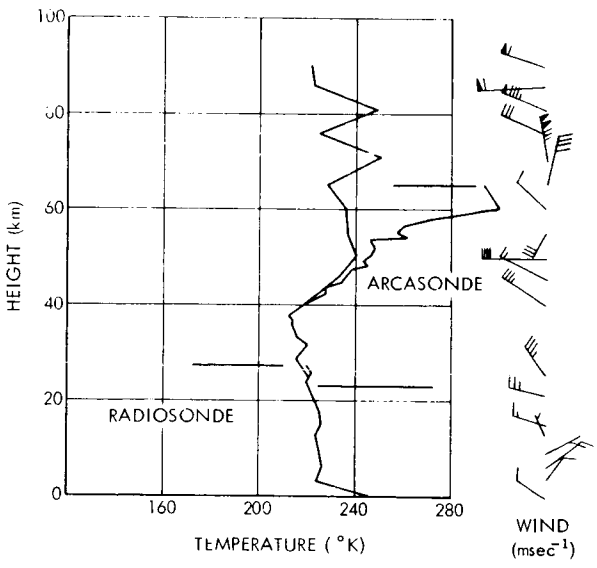
50 m/sec

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 (%)	
.3400000	05	.7182413	03	.1078461	01-	.2320192	03	.8264740	01	.9074333	01
.3500000	05	.6207763	03	.9304084	02-	.2324447	03	.8037554	01	.9933175	01
.3600000	05	.5367041	03	.8029327	02-	.2328702	03	.7659053	01	.1062881	02
.3700000	05	.4641621	03	.6931403	02-	.2332957	03	.7135433	01	.1116035	02
.3800000	05	.4015498	03	.5985488	02-	.2337211	03	.6472918	01	.1153224	02
.3900000	05	.3474906	03	.5170270	02-	.2341466	03	.5677735	01	.1174856	02
.4000000	05	.3008017	03	.4467474	02-	.2345721	03	.4756777	01	.1180705	02
.4100000	05	.2604656	03	.3861403	02-	.2349976	03	.3716227	01	.1171750	02
.4200000	05	.2255943	03	.3341196	02-	.2352255	03	.2558256	01	.1156660	02
.4300000	05	.1954260	03	.2891822	02-	.2354339	03	.1282728	01	.1127102	02
.4400000	05	.1693217	03	.2503327	02-	.2356423	03	.1028080-	00	.1082064	02
.4500000	05	.1467292	03	.2167392	02-	.2358507	03	.1590731-	01	.1022695	02
.4600000	05	.1271729	03	.1876861	02-	.2360591	03	.3172745-	01	.9495404	01
.4700000	05	.1102228	03	.1629065	02-	.2357171	03	.4858141-	01	.8858345	01
.4800000	05	.9550345	02	.1416260	02-	.2349277	03	.6640086-	01	.7561338	01
.4900000	05	.8271353	02	.1230728	02-	.2341383	03	.8438618-	01	.5841810	01
.5000000	05	.7160492	02	.1069043	02-	.2333489	03	.1024591-	02	.4103932	01
.5100000	05	.6196072	02	.9281979	03-	.2325595	03	.1206005-	02	.2348447	01
.5200000	05	.5359149	02	.8055578	03-	.2317701	03	.1387922-	02	.5727965	00
.5300000	05	.4633190	02	.6988157	03-	.2309806	03	.1568967-	02	.1615423-	01
.5400000	05	.4003756	02	.6059502	03-	.2301912	03	.1743421-	02	.4026126-	01
.5500000	05	.3458905	02	.5239380	03-	.2299942	03	.1909297-	02	.6564766-	01
.5600000	05	.2988246	02	.4524749	03-	.2300806	03	.2064608-	02	.9072188-	01
.5700000	05	.2581891	02	.3907987	03-	.2301670	03	.2209068-	02	.1142570-	02
.5800000	05	.2231025	02	.3375643	03-	.2302534	03	.2343061-	02	.1363548-	02
.5900000	05	.1928044	02	.2916125	03-	.2303398	03	.2466871-	02	.1570431-	02
.6000000	05	.1666377	02	.2519414	03-	.2304262	03	.2580890-	02	.1764469-	02
.6100000	05	.1440354	02	.2176871	03-	.2305126	03	.2685477-	02	.1945867-	02
.6200000	05	.1245117	02	.1881095	03-	.2305990	03	.2780132-	02	.2139503-	02
.6300000	05	.1076891	02	.1617058	03-	.2320088	03	.2856634-	02	.2391032-	02
.6400000	05	.9324681	01	.1387319	03-	.2341616	03	.2909203-	02	.2635135-	02
.6500000	05	.8085147	01	.1191944	03-	.2363145	03	.2936454-	02	.2847621-	02
.6600000	05	.7019767	01	.1025539	03-	.2384673	03	.2938335-	02	.3029710-	02
.6700000	05	.6102783	01	.8835967	04-	.2406201	03	.2914493-	02	.3184227-	02
.6800000	05	.5310648	01	.7657829	04-	.2416017	03	.2866663-	02	.3282017-	02
.6900000	05	.4610265	01	.6912262	04-	.2323613	03	.2817884-	02	.3087738-	02
.7000000	05	.3979525	01	.6213684	04-	.2231209	03	.2791329-	02	.2901486-	02
.7100000	05	.3413929	01	.5560853	04-	.2138805	03	.2790044-	02	.2725396-	02
.7200000	05	.2909098	01	.4952515	04-	.2046401	03	.2817273-	02	.2563010-	02
.7300000	05	.2465511	01	.4294967	04-	.1999886	03	.2862713-	02	.2577736-	02
.7400000	05	.2089614	01	.3558585	04-	.2045724	03	.2886613-	02	.2904260-	02
.7500000	05	.1777621	01	.2960920	04-	.2091561	03	.2862107-	02	.3169735-	02
.7600000	05	.1517595	01	.2473594	04-	.2137399	03	.2788809-	02	.3379030-	02
.7700000	05	.1300023	01	.2074476	04-	.2183236	03	.2665598-	02	.3537458-	02
.7800000	05	.1117282	01	.1746210	04-	.2229074	03	.2489870-	02	.3650144-	02
.7900000	05	.9632384	00	.1475120	04-	.2274911	03	.2258171-	02	.3720219-	02

FIGURE 2
27 JANUARY 1965, 2223 GMT, CHURCHILL

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
336.726	32.927	3.228	219.035	.581	40180.800
320.134	17.190	4.527	233.188	.884	45962.800
271.151	41.624	3.405	240.018	.653	50937.200
202.206	29.117	3.920	236.766	.698	55755.100
313.927	11.227	2.131	236.827	.400	60420.200
17.579	39.017	2.312	229.365	.345	65496.990
345.112	131.641	6.705	250.214	1.511	70930.840
317.394	30.551	13.302	225.574	2.849	76092.840
311.873	86.383	19.993	249.310	4.566	81033.690
268.892	58.925	19.028	223.456	4.484	85750.240
298.305	61.666	34.427	221.295	8.162	90194.550



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
45000.000	- 16.034	11.350
50000.000	- 3.164	35.851
55000.000	22.601	15.802
60000.000	- 4.659	8.349
65000.000	- 34.316	- 9.839
70000.000	-111.800	26.010
75000.000	- 44.659	23.463
80000.000	- 50.301	55.193
85000.000	- 8.213	59.774
90000.000	- 27.910	54.496

LEGEND

5 m/sec or less

10 m/sec

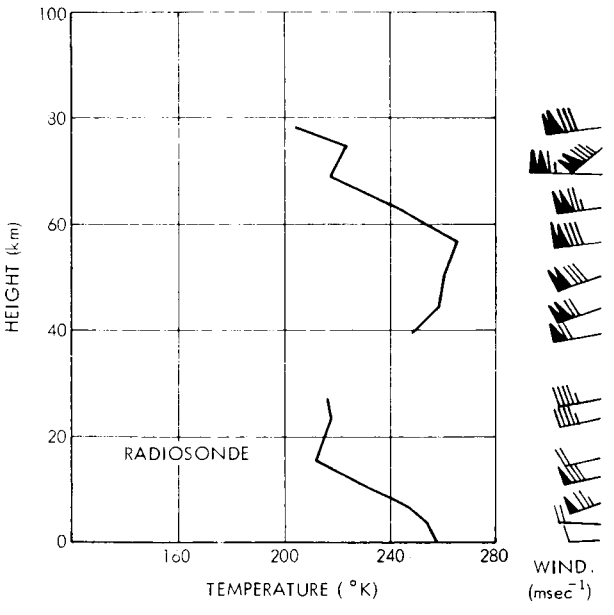
50 m/sec

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 (%)	
.2700000	05	.1724457	04	.2737228	01-	.2194823	03	.8272110-	01	.6572865-	01
.2800000	05	.1477534	04	.2345651	01-	.2194483	03	.8579175-	01	.6458311-	01
.2900000	05	.1265979	04	.2010109	01-	.2194143	03	.8949880-	01	.6410776-	01
.3000000	05	.1084735	04	.1722598	01-	.2193804	03	.9381160-	01	.6431397-	01
.3100000	05	.9294830	03	.1476281	01-	.2193464	03	.9869188-	01	.6517153-	01
.3200000	05	.7964663	03	.1265209	01-	.2193124	03	.1041510-	02	.6661090-	01
.3300000	05	.6824979	03	.1084335	01-	.2192785	03	.1105294-	02	.6304764-	01
.3400000	05	.5848484	03	.9293358	02-	.2192445	03	.1184236-	02	.6008055-	01
.3500000	05	.5011794	03	.7965077	02-	.2192105	03	.1277661-	02	.5887974-	01
.3600000	05	.4295010	03	.6826972	02-	.2191766	03	.1384513-	02	.5937341-	01
.3700000	05	.3680807	03	.5851596	02-	.2191426	03	.1504156-	02	.6156729-	01
.3800000	05	.3154496	03	.5015666	02-	.2191086	03	.1635698-	02	.6539207-	01
.3900000	05	.2703491	03	.4299232	02-	.2190747	03	.1778228-	02	.7077766-	01
.4000000	05	.2317079	03	.3685311	02-	.2190407	03	.1930575-	02	.7768079-	01
.4100000	05	.1987371	03	.3132322	02-	.2210398	03	.2086382-	02	.9376150-	01
.4200000	05	.1707278	03	.2661391	02-	.2234877	03	.2238483-	02	.1113292-	02
.4300000	05	.1469158	03	.2265385	02-	.2259355	03	.2385850-	02	.1283290-	02
.4400000	05	.1266356	03	.1931743	02-	.2283834	03	.2528697-	02	.1448300-	02
.4500000	05	.1093329	03	.1650116	02-	.2308312	03	.2667192-	02	.1608014-	02
.4600000	05	.9454384	02	.1412180	02-	.2332390	03	.2801596-	02	.1761390-	02
.4700000	05	.8185507	02	.1215496	02-	.2346120	03	.2934453-	02	.1877741-	02
.4800000	05	.7093204	02	.1047168	02-	.2359849	03	.3066000-	02	.2047026-	02
.4900000	05	.6152046	02	.9029717	03-	.2373578	03	.3189870-	02	.2234505-	02
.5000000	05	.5340383	02	.7793314	03-	.2387308	03	.3306029-	02	.2410834-	02
.5100000	05	.4639596	02	.6735535	03-	.2399751	03	.3415090-	02	.2573011-	02
.5200000	05	.4031612	02	.5869398	03-	.2393003	03	.3521257-	02	.2672136-	02
.5300000	05	.3502063	02	.5112876	03-	.2386255	03	.3627283-	02	.2801705-	02
.5400000	05	.3040992	02	.4452321	03-	.2379507	03	.3728841-	02	.2948160-	02
.5500000	05	.2639681	02	.3875752	03-	.2372759	03	.3825539-	02	.3088271-	02
.5600000	05	.2290622	02	.3370433	03-	.2367695	03	.3917174-	02	.3226894-	02
.5700000	05	.1987676	02	.2924517	03-	.2367825	03	.4002130-	02	.3371599-	02
.5800000	05	.1724850	02	.2537676	03-	.2367955	03	.4080267-	02	.3507455-	02
.5900000	05	.1496862	02	.2202129	03-	.2368084	03	.4151556-	02	.3634360-	02
.6000000	05	.1299067	02	.1911035	03-	.2368214	03	.4216243-	02	.3753155-	02
.6100000	05	.1127111	02	.1664024	03-	.2359747	03	.4276212-	02	.3843333-	02
.6200000	05	.9772773	01	.1451858	03-	.2345048	03	.4333212-	02	.3933149-	02
.6300000	05	.8466399	01	.1265715	03-	.2330350	03	.4383964-	02	.4044256-	02
.6400000	05	.7328327	01	.1102529	03-	.2315651	03	.4427297-	02	.4147005-	02
.6500000	05	.6337694	01	.9595812	04-	.2300953	03	.4463107-	02	.4241936-	02
.6600000	05	.5480764	01	.8255311	04-	.2312948	03	.4486524-	02	.4389104-	02
.6700000	05	.4747335	01	.7033913	04-	.2351316	03	.4488206-	02	.4574272-	02
.6800000	05	.4121807	01	.6009041	04-	.2389685	03	.4463530-	02	.4728449-	02
.6900000	05	.3586919	01	.5146612	04-	.2428054	03	.4412106-	02	.4853388-	02
.7000000	05	.3128387	01	.4418869	04-	.2466423	03	.4333115-	02	.4951883-	02
.7100000	05	.2733913	01	.3811579	04-	.2498836	03	.4226186-	02	.5013763-	02
.7200000	05	.2388277	01	.3394542	04-	.2451103	03	.4103210-	02	.4902554-	02
.7300000	05	.2080889	01	.3016382	04-	.2403370	03	.3976138-	02	.4787297-	02
.7400000	05	.1808138	01	.2674123	04-	.2355637	03	.3844803-	02	.4667857-	02
.7500000	05	.1566695	01	.2364966	04-	.2307904	03	.3709062-	02	.4544484-	02
.7600000	05	.1353493	01	.2086282	04-	.2260171	03	.3568574-	02	.4415733-	02
.7700000	05	.1169038	01	.1771281	04-	.2299321	03	.3404578-	02	.4481990-	02
.7800000	05	.1012544	01	.1502769	04-	.2347362	03	.3193894-	02	.4535385-	02
.7900000	05	.8795949	00	.1279271	04-	.2395403	03	.2930437-	02	.4553978-	02
.8000000	05	.7662736	00	.1092546	04-	.2443443	03	.2607818-	02	.4534536-	02
.8100000	05	.6693751	00	.9359865	05-	.2491484	03	.2234987-	02	.4368312-	02
.8200000	05	.5847006	00	.8347919	05-	.2440133	03	.1844156-	02	.3959537-	02
.8300000	05	.5092410	00	.7437647	05-	.2385316	03	.1459126-	02	.3532481-	02
.8400000	05	.4421168	00	.6609157	05-	.2330500	03	.1084915-	02	.3088824-	02
.8500000	05	.3825683	00	.5856731	05-	.2275684	03	.7256161-	01	.2637673-	02
.8600000	05	.3300260	00	.5148143	05-	.2233344	03	.3818959-	01	.2219822-	02
.8700000	05	.2842687	00	.4444041	05-	.2228482	03	.4103353-	00	.1925797-	02
.8800000	05	.2447875	00	.3835188	05-	.2223620	03	.3085788	01	.1624396-	02
.8900000	05	.2107306	00	.3308840	05-	.2218759	03	.6666662	01	.1315379-	02
.9000000	05	.1813607	00	.2853934	05-	.2213897	03	.1033013	02	.9970523-	01

FIGURE 3
27 JANUARY 1965, 2224 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
258.264	70.544	12.469	247.836	8.271	30602.100
254.256	118.311	20.541	257.352	9.016	40754.200
252.096	129.446	18.523	260.493	6.319	50245.250
261.270	127.677	23.681	265.043	7.689	56961.000
260.104	122.734	20.512	242.526	6.356	67267.950
271.287	113.766	27.578	217.519	9.023	69123.500
243.561	134.475	62.103	223.022	13.257	74673.900
260.591	128.916	62.825	203.948	14.666	78607.050



HEIGHT meters	WIND COMPONENTS m/sec SOUTH component (+)	WEST component (+)
40000.000	15.522	72.028
45000.000	32.945	114.893
50000.000	39.475	122.790
55000.000	25.341	125.316
60000.000	20.114	123.665
65000.000	13.912	118.903
70000.000	3.062	114.434
75000.000	56.658	120.971

LEGEND

5 m/sec or less

10 m/sec

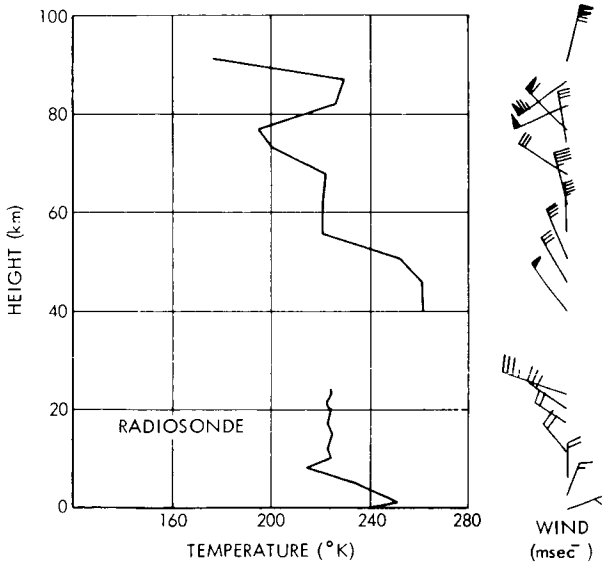
50 m/sec

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	.8036841	03	.1291107	01-	.2168609	03	.9603247-	01	.4750481-	01
.3300000	05	.6886907	03	.1086203	01-	.2208877	03	.1024587-	02	.6143390-	01
.3400000	05	.5918274	03	.9167180	02-	.2249145	03	.1079027-	02	.7284209-	01
.3500000	05	.5099815	03	.7760477	02-	.2289413	03	.1124474-	02	.8705436-	01
.3600000	05	.4406163	03	.6589042	02-	.2329681	03	.1161546-	02	.9215577-	01
.3700000	05	.3816580	03	.5610395	02-	.2369949	03	.1190773-	02	.1002492-	02
.3800000	05	.3314045	03	.4790274	02-	.2410217	03	.1212646-	02	.1073911-	02
.3900000	05	.2884544	03	.4100938	02-	.2450485	03	.1227616-	02	.1136364-	02
.4000000	05	.2516105	03	.3527395	02-	.2485036	03	.1237450-	02	.1172021-	02
.4100000	05	.2198204	03	.3055044	02-	.2506736	03	.1246853-	02	.1161195-	02
.4200000	05	.1922786	03	.2649336	02-	.2528436	03	.1258753-	02	.1153546-	02
.4300000	05	.1683870	03	.2300400	02-	.2550136	03	.1273067-	02	.1148560-	02
.4400000	05	.1476361	03	.1999896	02-	.2571836	03	.1289700-	02	.1146594-	02
.4500000	05	.1295540	03	.1747842	02-	.2582300	03	.1310989-	02	.1111008-	02
.4600000	05	.1137337	03	.1531855	02-	.2586602	03	.1340511-	02	.1063209-	02
.4700000	05	.9987100	02	.1342908	02-	.2590904	03	.1379358-	02	.1026343-	02
.4800000	05	.8772051	02	.1177572	02-	.2595206	03	.1424834-	02	.1056642-	02
.4900000	05	.7706773	02	.1032855	02-	.2599508	03	.1468835-	02	.1117513-	02
.5000000	05	.6772602	02	.9061590	03-	.2603810	03	.1510797-	02	.1175780-	02
.5100000	05	.5953433	02	.7946819	03-	.2609951	03	.1550379-	02	.1237380-	02
.5200000	05	.5235223	02	.6969997	03-	.2616741	03	.1587070-	02	.1298053-	02
.5300000	05	.4605374	02	.6115569	03-	.2623531	03	.1619583-	02	.1390038-	02
.5400000	05	.4052807	02	.5367910	03-	.2630321	03	.1642267-	02	.1497997-	02
.5500000	05	.3567858	02	.4713431	03-	.2637112	03	.1654446-	02	.1594415-	02
.5600000	05	.3142092	02	.4140299	03-	.2643902	03	.1656065-	02	.1679797-	02
.5700000	05	.2768035	02	.3640340	03-	.2649035	03	.1647375-	02	.1749189-	02
.5800000	05	.2436801	02	.3248503	03-	.2613334	03	.1636834-	02	.1688833-	02
.5900000	05	.2141532	02	.2894420	03-	.2577633	03	.1632745-	02	.1633171-	02
.6000000	05	.1878730	02	.2574889	03-	.2541932	03	.1635443-	02	.1583129-	02
.6100000	05	.1645197	02	.2286941	03-	.2506231	03	.1645228-	02	.1538623-	02
.6200000	05	.1438012	02	.2027825	03-	.2470530	03	.1661622-	02	.1526368-	02
.6300000	05	.1254511	02	.1794999	03-	.2434829	03	.1678424-	02	.1553741-	02
.6400000	05	.1092155	02	.1588335	03-	.2395523	03	.1694891-	02	.1568003-	02
.6500000	05	.9486372	01	.1403416	03-	.2354897	03	.1712280-	02	.1578662-	02
.6600000	05	.8219978	01	.1237412	03-	.2314272	03	.1730962-	02	.1589667-	02
.6700000	05	.7104911	01	.1088664	03-	.2273646	03	.1750992-	02	.1602405-	02
.6800000	05	.6125268	01	.9556316	04-	.2233021	03	.1772453-	02	.1616531-	02
.6900000	05	.5266583	01	.8368897	04-	.2192396	03	.1795436-	02	.1631103-	02
.7000000	05	.4520414	01	.7219951	04-	.2181233	03	.1811540-	02	.1751925-	02
.7100000	05	.3880058	01	.6167545	04-	.2191715	03	.1805613-	02	.1931733-	02
.7200000	05	.3333001	01	.5272754	04-	.2202197	03	.1770632-	02	.2082120-	02
.7300000	05	.2865275	01	.4511347	04-	.2212679	03	.1705456-	02	.2203803-	02
.7400000	05	.2465062	01	.3862915	04-	.2223160	03	.1608530-	02	.2297431-	02
.7500000	05	.2120969	01	.3336835	04-	.2214409	03	.1483418-	02	.2302571-	02
.7600000	05	.1821402	01	.2929699	04-	.2165912	03	.1345203-	02	.2158192-	02
.7700000	05	.1558836	01	.2564794	04-	.2117416	03	.1205436-	02	.2009987-	02
.7800000	05	.1329383	01	.2238540	04-	.2068919	03	.1064170-	02	.1859855-	02

FIGURE 4
4 FEBRUARY 1965, 0445 GMT, BARROW

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
324.054	48.314	9.168	261.876	3.612	40911.350
336.686	29.947	6.945	261.854	2.679	46372.540
346.826	35.343	10.930	252.203	3.760	51653.750
358.056	44.935	9.383	221.468	2.651	56702.600
348.611	44.800	10.006	221.874	3.062	62600.500
306.089	29.615	13.796	222.077	5.443	68246.500
352.931	28.164	14.653	201.936	4.534	73110.450
315.063	61.055	15.631	195.858	5.055	77722.400
239.789	48.576	30.090	226.308	9.844	82522.650
221.059	73.197	33.937	229.964	10.867	87440.650
10.314	121.820	25.604	176.885	6.436	91646.300



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
45000.000	- 30.420	16.001
50000.000	- 32.248	9.244
55000.000	- 41.370	- .760
60000.000	- 44.355	2.633
65000.000	- 32.667	15.258
70000.000	- 21.232	16.554
75000.000	- 34.206	14.848
80000.000	- 11.116	36.338
85000.000	39.932	45.051
90000.000	- 51.331	5.547

LEGEND

5 m/sec or less

10 m/sec

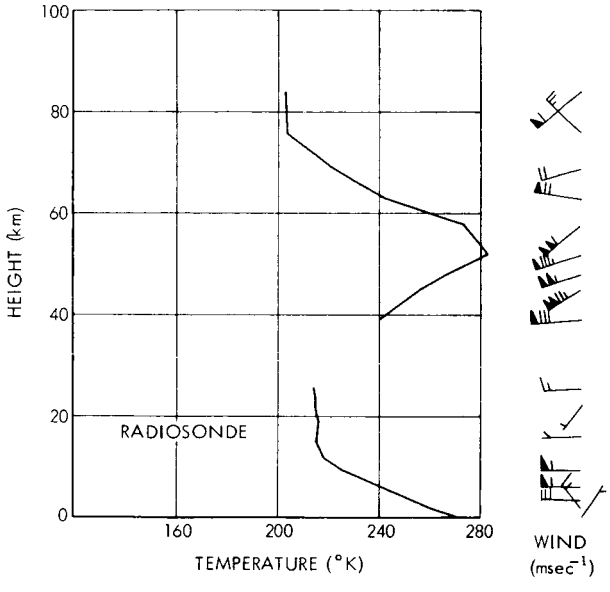
50 m/sec

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 (%)	
.2400000	05	.2788619	04	.4362429	01-	.2226994	03	.6162084-	01	.7059766-	01
.2500000	05	.2395950	04	.3709562	01-	.2250159	03	.6012428-	01	.7455284-	01
.2600000	05	.2061873	04	.3159792	01-	.2273325	03	.5780425-	01	.7762136-	01
.2700000	05	.1777163	04	.2696005	01-	.2296490	03	.5468545-	01	.7979882-	01
.2800000	05	.1534124	04	.2304066	01-	.2319656	03	.5077755-	01	.8116672-	01
.2900000	05	.1326319	04	.1972273	01-	.2342822	03	.4610169-	01	.8172415-	01
.3000000	05	.1148358	04	.1690919	01-	.2365987	03	.4066074-	01	.8152114-	01
.3100000	05	.9957155	03	.1451943	01-	.2389153	03	.3446700-	01	.8058341-	01
.3200000	05	.8645899	03	.1248630	01-	.2412319	03	.2752690-	01	.7884197-	01
.3300000	05	.7517787	03	.1075382	01-	.2435484	03	.2023868-	01	.7078358-	01
.3400000	05	.6545815	03	.9275240	02-	.2458650	03	.1331083-	01	.6191307-	01
.3500000	05	.5707154	03	.8011397	02-	.2481816	03	.6748366-	00	.5340673-	01
.3600000	05	.4982499	03	.6929484	02-	.2504981	03	.5458029-	01-	.4524933-	01
.3700000	05	.4355479	03	.6001942	02-	.2528147	03	.5308568	00	.3745611-	01
.3800000	05	.3812198	03	.5205590	02-	.2551312	03	.1082306	01	.3000221-	01
.3900000	05	.3340842	03	.4520899	02-	.2574478	03	.1600623	01	.2286730-	01
.4000000	05	.2931349	03	.3931390	02-	.2597644	03	.2086745	01	.1609472-	01
.4100000	05	.2575009	03	.3425646	02-	.2618752	03	.2535664	01	.8897534-	00
.4200000	05	.2262392	03	.3009804	02-	.2618713	03	.2851449	01	.5010041	00
.4300000	05	.1988366	03	.2645288	02-	.2618674	03	.3050303	01	.1784918	01
.4400000	05	.1747111	03	.2324361	02-	.2618635	03	.3076830	01	.2897937	01
.4500000	05	.1535190	03	.2042452	02-	.2618596	03	.2963102	01	.3872853	01
.4600000	05	.1349029	03	.1794806	02-	.2618557	03	.2712751	01	.4708365	01
.4700000	05	.1185596	03	.1584314	02-	.2607076	03	.2338012	01	.5867954	01
.4800000	05	.1041234	03	.1401225	02-	.2588802	03	.1786415	01	.6419447	01
.4900000	05	.9136468	02	.1238267	02-	.2570527	03	.1137948	01	.6490114	01
.5000000	05	.8009787	02	.1093340	02-	.2552253	03	.3996827	00	.6470000	01
.5100000	05	.7015697	02	.9645528	03-	.2533979	03	.4272410-	00	.6357145	01
.5200000	05	.6136940	02	.8548786	03-	.2500953	03	.1380243-	01	.6730439	01
.5300000	05	.5354819	02	.7645387	03-	.2440076	03	.2558160-	01	.7637562	01
.5400000	05	.4656511	02	.6818484	03-	.2379200	03	.3973038-	01	.7995064	01
.5500000	05	.4034807	02	.6063270	03-	.2318323	03	.5622083-	01	.8127876	01
.5600000	05	.3482960	02	.5375132	03-	.2257447	03	.7508786-	01	.8016812	01
.5700000	05	.2996533	02	.4713321	03-	.2214880	03	.9578759-	01	.6827160	01
.5800000	05	.2574547	02	.4048308	03-	.2215569	03	.1164086-	02	.3574381	01
.5900000	05	.2212210	02	.3477474	03-	.2216259	03	.1356597-	02	.5224791	00
.6000000	05	.1901012	02	.2987359	03-	.2216949	03	.1536236-	02	.2348352-	01
.6100000	05	.1633764	02	.2566591	03-	.2217638	03	.1703289-	02	.5039546-	01
.6200000	05	.1404212	02	.2205288	03-	.2218328	03	.1857608-	02	.7848068-	01
.6300000	05	.1207030	02	.1895142	03-	.2218885	03	.1993376-	02	.1082526-	02
.6400000	05	.1037644	02	.1628928	03-	.2219243	03	.2109407-	02	.1352509-	02
.6500000	05	.8920706	01	.1400175	03-	.2219601	03	.2206471-	02	.1598107-	02
.6600000	05	.7669772	01	.1203637	03-	.2219960	03	.2284451-	02	.1819228-	02
.6700000	05	.6594746	01	.1034763	03-	.2220318	03	.2343309-	02	.2018177-	02
.6800000	05	.5670714	01	.8896325	04-	.2220676	03	.2383017-	02	.2195522-	02
.6900000	05	.4871200	01	.7750619	04-	.2189564	03	.2411385-	02	.2249381-	02
.7000000	05	.4173982	01	.6769283	04-	.2148157	03	.2439082-	02	.2266770-	02
.7100000	05	.3565994	01	.5896927	04-	.2106750	03	.2468893-	02	.2285750-	02
.7200000	05	.3037212	01	.5123197	04-	.2065343	03	.2500951-	02	.2306703-	02
.7300000	05	.2578576	01	.4438551	04-	.2023936	03	.2535409-	02	.2329604-	02
.7400000	05	.2184195	01	.3790216	04-	.2007639	03	.2564645-	02	.2442392-	02
.7500000	05	.1847969	01	.3227956	04-	.1994460	03	.2579629-	02	.2553735-	02
.7600000	05	.1561849	01	.2746320	04-	.1981281	03	.2578527-	02	.2649035-	02
.7700000	05	.1318617	01	.2334153	04-	.1968101	03	.2560693-	02	.2728494-	02
.7800000	05	.1113082	01	.1962260	04-	.1976190	03	.2518102-	02	.2864509-	02
.7900000	05	.9424590	00	.1609794	04-	.2039625	03	.2425180-	02	.3146897-	02
.8000000	05	.8021082	00	.1328738	04-	.2103060	03	.2262124-	02	.3352984-	02
.8100000	05	.6859709	00	.1103078	04-	.2166495	03	.2042470-	02	.3362948-	02
.8200000	05	.5893310	00	.9207172	05-	.2229930	03	.1779568-	02	.3337791-	02
.8300000	05	.5080477	00	.7808753	05-	.2266632	03	.1479141-	02	.3209780-	02
.8400000	05	.4386291	00	.6719745	05-	.2274064	03	.1155245-	02	.2973183-	02
.8500000	05	.3788946	00	.5785710	05-	.2281497	03	.8146764-	01	.2726952-	02
.8600000	05	.3274657	00	.4984155	05-	.2288930	03	.4565107-	01	.2467650-	02
.8700000	05	.2831642	00	.4295919	05-	.2296362	03	.7972936-	00	.2194914-	02
.8800000	05	.2443937	00	.3819705	05-	.2229043	03	.2919958	01	.1658209-	02
.8900000	05	.2095519	00	.3471721	05-	.2102834	03	.6069990	01	.8878722-	01
.9000000	05	.1779833	00	.3136990	05-	.1976625	03	.8275510	01	.1041328-	01
.9100000	05	.1495581	00	.2815779	05-	.1850416	03	.9182412	01	.8382579	01

FIGURE 5
4 FEBRUARY 1965, 0510 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
264.905	81.751	7.495	240.092	6.072	38360.240
246.972	124.063	22.423	256.105	10.107	44538.200
257.773	105.131	37.016	266.561	12.620	48188.250
250.581	86.291	33.054	282.597	9.674	52331.700
234.149	108.346	31.629	273.851	6.992	57536.000
276.573	71.163	18.605	242.578	4.829	63143.350
255.865	18.642	28.454	220.860	4.152	68973.600
313.490	22.657	5.944	203.678	2.486	76103.440
247.659	60.223	15.551	203.358	2.354	84331.800



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.000	12.355	85.470
45000.000	45.208	112.731
50000.000	25.074	93.405
55000.000	46.514	84.683
60000.000	31.992	80.295
65000.000	- 4.102	53.939
70000.000	1.652	17.841
75000.000	- 12.475	16.691
80000.000	2.632	35.032

LEGEND

5 m/sec or less

10 m/sec

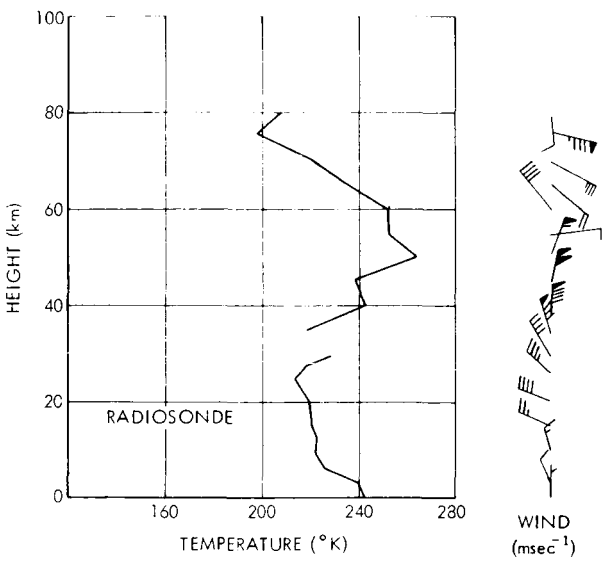
50 m/sec

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 (%)	
.2600000	05	.2066094	04	.2348929	01-	.2149326	03	.5587533-	01	.2241014-	01
.2700000	05	.1766164	04	.2037910	01-	.2168156	03	.6053622-	01	.3136394-	01
.2800000	05	.1511896	04	.2408430	01-	.2186986	03	.6453067-	01	.3954771-	01
.2900000	05	.1296023	04	.2046923	01-	.2205817	03	.6789090-	01	.4696757-	01
.3000000	05	.1112482	04	.1742169	01-	.2224647	03	.7063116-	01	.5368344-	01
.3100000	05	.9562088	03	.1484873	01-	.2243477	03	.7277617-	01	.5973097-	01
.3200000	05	.8229670	03	.1267328	01-	.2262307	03	.7434352-	01	.6504775-	01
.3300000	05	.7092059	03	.1083126	01-	.2281138	03	.7572210-	01	.6409226-	01
.3400000	05	.6119465	03	.9269362	02-	.2299968	03	.7757701-	01	.6250752-	01
.3500000	05	.5286846	03	.7943133	02-	.2318798	03	.7989723-	01	.6147242-	01
.3600000	05	.4573127	03	.6815472	02-	.2337628	03	.8266288-	01	.6095795-	01
.3700000	05	.3960542	03	.5855351	02-	.2356459	03	.8584873-	01	.6096515-	01
.3800000	05	.3434097	03	.5036794	02-	.2375289	03	.8943234-	01	.6145513-	01
.3900000	05	.2981113	03	.4338012	02-	.2394119	03	.9339333-	01	.6239592-	01
.4000000	05	.2591447	03	.3729604	02-	.2420682	03	.9750644-	01	.6659544-	01
.4100000	05	.2256538	03	.3206632	02-	.2451611	03	.1014570-	02	.7226232-	01
.4200000	05	.1968407	03	.2762337	02-	.2482541	03	.1051353-	02	.7762229-	01
.4300000	05	.1720045	03	.2384099	02-	.2513471	03	.1085584-	02	.8265072-	01
.4400000	05	.1505565	03	.2061447	02-	.2544400	03	.1117401-	02	.8741112-	01
.4500000	05	.1319970	03	.1786551	02-	.2574277	03	.1147144-	02	.9151631-	01
.4600000	05	.1159322	03	.1551274	02-	.2602924	03	.1175404-	02	.9499208-	01
.4700000	05	.1019390	03	.1348268	02-	.2631572	03	.1202576-	02	.9838414-	01
.4800000	05	.8975127	02	.1175388	02-	.2660220	03	.1226316-	02	.1073228-	02
.4900000	05	.7916207	02	.1022562	02-	.2697028	03	.1236998-	02	.1206033-	02
.5000000	05	.6994684	02	.8907444	03-	.2735729	03	.1232425-	02	.1325888-	02
.5100000	05	.6191425	02	.7774545	03-	.2774430	03	.1212600-	02	.1427339-	02
.5200000	05	.5489887	02	.6798788	03-	.2813131	03	.1177829-	02	.1511806-	02
.5300000	05	.4872248	02	.6030447	03-	.2814738	03	.1133952-	02	.1509879-	02
.5400000	05	.4322833	02	.5382565	03-	.2797933	03	.1085415-	02	.1474784-	02
.5500000	05	.3832752	02	.4801178	03-	.2781129	03	.1034833-	02	.1437935-	02
.5600000	05	.3395882	02	.4279783	03-	.2764324	03	.9821165-	01	.1399494-	02
.5700000	05	.3006704	02	.3812484	03-	.2747520	03	.9271836-	01	.1359026-	02
.5800000	05	.2659159	02	.3415162	03-	.2712674	03	.8736938-	01	.1262441-	02
.5900000	05	.2346999	02	.3077529	03-	.2656861	03	.8299585-	01	.1107864-	02
.6000000	05	.2066084	02	.2767267	03-	.2601088	03	.8012960-	01	.9542779-	01
.6100000	05	.1813847	02	.2482659	03-	.2545315	03	.7887751-	01	.8144906-	01
.6200000	05	.1587882	02	.2222066	03-	.2489543	03	.7925904-	01	.7146978-	01
.6300000	05	.1385942	02	.1983918	03-	.2433770	03	.8065986-	01	.6647936-	01
.6400000	05	.1206482	02	.1755818	03-	.2393865	03	.8255081-	01	.6788878-	01
.6500000	05	.1047944	02	.1549199	03-	.2356616	03	.8446954-	01	.7038744-	01
.6600000	05	.9082370	01	.1364231	03-	.2319367	03	.8634211-	01	.7277155-	01
.6700000	05	.7853698	01	.1198931	03-	.2282117	03	.8816293-	01	.7518388-	01
.6800000	05	.6775326	01	.1051471	03-	.2244868	03	.8992867-	01	.7757566-	01
.6900000	05	.5830936	01	.9200342	04-	.2207966	03	.9162574-	01	.7996576-	01
.7000000	05	.5007975	01	.7989030	04-	.2183867	03	.9283541-	01	.8733303-	01
.7100000	05	.4294113	01	.6926671	04-	.2159768	03	.9311600-	01	.9386578-	01
.7200000	05	.3675837	01	.5996261	04-	.2135669	03	.9241497-	01	.9956589-	01
.7300000	05	.3141189	01	.5182590	04-	.2111570	03	.9067265-	01	.1043808-	02
.7400000	05	.2679599	01	.4472059	04-	.2087471	03	.8782096-	01	.1082811-	02
.7500000	05	.2281737	01	.3852533	04-	.2063372	03	.8378675-	01	.1112957-	02
.7600000	05	.1939381	01	.3313188	04-	.2039272	03	.7845972-	01	.1131722-	02
.7700000	05	.1646706	01	.2817116	04-	.2036431	03	.7096958-	01	.1223937-	02
.7800000	05	.1398070	01	.2392216	04-	.2036041	03	.6024769-	01	.1301032-	02
.7900000	05	.1186989	01	.2031427	04-	.2035652	03	.4598229-	01	.1351947-	02
.8000000	05	.1007790	01	.1725075	04-	.2035262	03	.2779269-	01	.1370311-	02
.8100000	05	.8556663	00	.1464959	04-	.2034872	03	.7393607-	00	.1185566-	02
.8200000	05	.7265141	00	.1244080	04-	.2034483	03	.1339660	01	.9979764-	01
.8300000	05	.6168638	00	.1056517	04-	.2034093	03	.3458977	01	.8128946-	01
.8400000	05	.5237891	00	.8972777	05-	.2033704	03	.5619683	01	.6171935-	01

FIGURE 6
4 FEBRUARY 1965, 1735 GMT, CHURCHILL

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
342.542	78.079	2.976	228.755	.917	34690.600
.427	91.110	3.763	242.588	1.190	40492.850
9.092	98.684	3.243	239.005	.916	45464.900
27.923	56.276	4.929	264.408	1.455	50270.550
78.679	9.000	7.552	253.432	2.533	54930.400
323.943	41.091	6.788	252.138	2.075	60005.200
129.209	21.321	7.282	235.035	2.140	65424.550
120.943	32.682	11.735	219.971	3.280	70572.400
107.682	84.640	12.632	197.877	3.188	75509.350
177.998	9.845	42.087	208.145	7.595	80202.990



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.000	- 75.369	22.140
40000.000	- 89.696	1.368
45000.000	- 96.852	- 14.199
50000.000	- 52.411	- 25.747
55000.000	- 2.198	- 8.372
60000.000	- 33.187	24.152
65000.000	9.820	- 13.332
70000.000	16.435	- 26.751
75000.000	24.790	- 75.214
80000.000	10.526	- 3.816

LEGEND

5 m/sec or less

10 m/sec

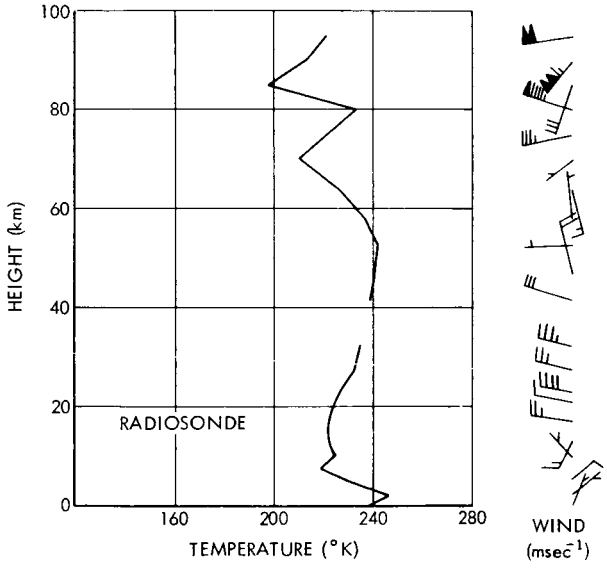
50 m/sec

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 (%)	
.2500000	05	.2077345	04	.3361952	01-	.2152659	03	.1851056-	02	.1612731-	02
.2600000	05	.1775291	04	.2854652	01-	.2166579	03	.1887612-	02	.1666952-	02
.2700000	05	.1518758	04	.2426560	01-	.2180498	03	.1921371-	02	.1717661-	02
.2800000	05	.1300649	04	.2064899	01-	.2194418	03	.1952375-	02	.1765435-	02
.2900000	05	.1115008	04	.1759019	01-	.2208338	03	.1980782-	02	.1810133-	02
.3000000	05	.9568346	03	.1500032	01-	.2222258	03	.2006595-	02	.1852079-	02
.3100000	05	.8219232	03	.1280510	01-	.2236177	03	.2029913-	02	.1891397-	02
.3200000	05	.7067341	03	.1094241	01-	.2250097	03	.2050799-	02	.1927402-	02
.3300000	05	.6082826	03	.9360173	02-	.2264017	03	.2072511-	02	.1912059-	02
.3400000	05	.5240519	03	.8014764	02-	.2277937	03	.2100658-	02	.1893962-	02
.3500000	05	.4519605	03	.6861041	02-	.2294926	03	.2134249-	02	.1893280-	02
.3600000	05	.3903150	03	.5864304	02-	.2318766	03	.2170556-	02	.1920107-	02
.3700000	05	.3375989	03	.5020650	02-	.2342606	03	.2207721-	02	.1948278-	02
.3800000	05	.2924450	03	.4305324	02-	.2366445	03	.2245676-	02	.1977555-	02
.3900000	05	.2537067	03	.3697773	02-	.2390285	03	.2284353-	02	.2007751-	02
.4000000	05	.2204200	03	.3180895	02-	.2414125	03	.2323685-	02	.2039204-	02
.4100000	05	.1916870	03	.2757003	02-	.2422221	03	.2367110-	02	.2023484-	02
.4200000	05	.1667109	03	.2404929	02-	.2415016	03	.2421093-	02	.1969650-	02
.4300000	05	.1449349	03	.2097050	02-	.2407811	03	.2488512-	02	.1931008-	02
.4400000	05	.1259559	03	.1827914	02-	.2400605	03	.2568800-	02	.1907946-	02
.4500000	05	.1094208	03	.1592731	02-	.2393400	03	.2661299-	02	.1899855-	02
.4600000	05	.9510987	02	.1370146	02-	.2418337	03	.2758499-	02	.2006614-	02
.4700000	05	.8285846	02	.1168120	02-	.2471198	03	.2847843-	02	.2194321-	02
.4800000	05	.7239922	02	.9992920	03-	.2524060	03	.2922576-	02	.2410632-	02
.4900000	05	.6344005	02	.8576708	03-	.2576921	03	.2977377-	02	.2624089-	02
.5000000	05	.5574111	02	.7384380	03-	.2629782	03	.3013060-	02	.2809055-	02
.5100000	05	.4903884	02	.6503610	03-	.2626902	03	.3039990-	02	.2828746-	02
.5200000	05	.4311629	02	.5769888	03-	.2603347	03	.3071273-	02	.2796373-	02
.5300000	05	.3786622	02	.5113583	03-	.2579793	03	.3109468-	02	.2800710-	02
.5400000	05	.3321721	02	.4527099	03-	.2556239	03	.3149918-	02	.2829721-	02
.5500000	05	.2910597	02	.4001369	03-	.2534146	03	.3191840-	02	.2864254-	02
.5600000	05	.2548818	02	.3507542	03-	.2531595	03	.3231525-	02	.2951365-	02
.5700000	05	.2231802	02	.3074379	03-	.2529044	03	.3265474-	02	.3031936-	02
.5800000	05	.1954034	02	.2694464	03-	.2526492	03	.3293701-	02	.3106320-	02
.5900000	05	.1710674	02	.2361272	03-	.2523941	03	.3316166-	02	.3174329-	02
.6000000	05	.1497484	02	.2069095	03-	.2521390	03	.3332841-	02	.3236484-	02
.6100000	05	.1309738	02	.1832511	03-	.2489982	03	.3348779-	02	.3219955-	02
.6200000	05	.1143628	02	.1620639	03-	.2458424	03	.3368618-	02	.3227867-	02
.6300000	05	.9968795	01	.1431051	03-	.2426865	03	.3387376-	02	.3266275-	02
.6400000	05	.8674383	01	.1261641	03-	.2395306	03	.3403711-	02	.3302327-	02
.6500000	05	.7534466	01	.1110477	03-	.2363748	03	.3417553-	02	.3336472-	02
.6600000	05	.6532519	01	.9752794	04-	.2333511	03	.3428492-	02	.3371308-	02
.6700000	05	.5653708	01	.8547955	04-	.2304248	03	.3435882-	02	.3406390-	02
.6800000	05	.4884316	01	.7479684	04-	.2274986	03	.3439318-	02	.3438298-	02
.6900000	05	.4211838	01	.6533915	04-	.2245724	03	.3438574-	02	.3466085-	02
.7000000	05	.3625067	01	.5697889	04-	.2216461	03	.3433409-	02	.3490730-	02
.7100000	05	.3113257	01	.4973958	04-	.2180575	03	.3425038-	02	.3493160-	02
.7200000	05	.2666239	01	.4349028	04-	.2135822	03	.3416904-	02	.3469241-	02
.7300000	05	.2276035	01	.3792003	04-	.2091069	03	.3411220-	02	.3446923-	02
.7400000	05	.1936394	01	.3296699	04-	.2046316	03	.3408199-	02	.3426453-	02
.7500000	05	.1641643	01	.2857378	04-	.2001563	03	.3408114-	02	.3408585-	02
.7600000	05	.1388570	01	.2431542	04-	.1989502	03	.3401898-	02	.3491589-	02
.7700000	05	.1175054	01	.2035271	04-	.2011378	03	.3370639-	02	.3659591-	02
.7800000	05	.9962182	00	.1706950	04-	.2033255	03	.3303635-	02	.3792909-	02
.7900000	05	.8461363	00	.1434362	04-	.2055132	03	.3199354-	02	.3893732-	02
.8000000	05	.7199444	00	.1207588	04-	.2077008	03	.3054752-	02	.3959038-	02

FIGURE 7
8 FEBRUARY 1965, 2215 GMT, BARROW

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
297.532	28.203	5.547	238.005	1.848	41811.500
342.306	18.937	7.072	239.559	2.042	47445.500
264.984	3.939	11.035	241.272	3.445	52902.450
352.372	5.236	5.741	235.947	3.146	58140.600
160.909	16.979	12.393	225.795	2.775	64274.150
229.236	4.201	13.566	210.348	3.050	70155.850
251.828	36.289	25.980	219.869	6.501	75250.240
309.866	94.388	34.022	233.278	12.333	80100.690
206.510	32.283	44.521	197.430	10.504	85146.600
223.350	115.635	37.964	213.178	9.668	90316.150
260.365	97.542	40.828	220.495	12.436	94754.300



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
45000.000	- 15.869	14.113
50000.000	- 9.434	4.898
55000.000	- 1.872	2.631
60000.000	1.248	- 1.199
65000.000	14.404	- 4.475
70000.000	3.096	2.950
75000.000	10.897	32.942
80000.000	- 59.011	71.660
85000.000	26.291	16.095
90000.000	80.711	75.404

LEGEND

5 m/sec or less

10 m/sec

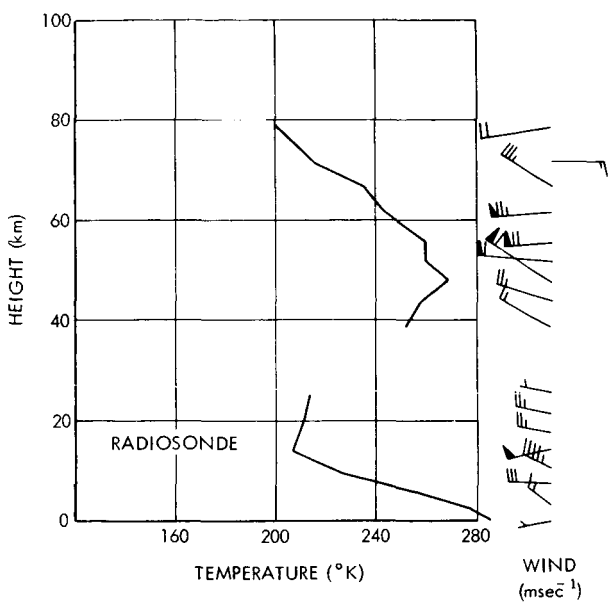
50 m/sec

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	.9145397	03	.1364481	01-	.2335035	03	.2865565	01	.6625341	00
.3300000	05	.7911063	03	.1178005	01-	.2339623	03	.3101521	01	.1789076	01
.3400000	05	.6845576	03	.1017352	01-	.2344211	03	.3187396	01	.2893850	01
.3500000	05	.5925530	03	.8789001	02-	.2348799	03	.3125695	01	.3847172	01
.3600000	05	.5130823	03	.7595420	02-	.2353387	03	.2920694	01	.4650402	01
.3700000	05	.4444130	03	.6566073	02-	.2357975	03	.2577062	01	.5301481	01
.3800000	05	.3850597	03	.5678096	02-	.2362563	03	.2100475	01	.5804366	01
.3900000	05	.3337406	03	.4911806	02-	.2367151	03	.1496157	01	.6162204	01
.4000000	05	.2893540	03	.4250311	02-	.2371739	03	.7700310	00	.6372149	01
.4100000	05	.2509514	03	.3679099	02-	.2376328	03	.7230416-	01-	.6443112	01
.4200000	05	.2177130	03	.3186114	02-	.2380571	03	.1024719-	01	.6388219	01
.4300000	05	.1889246	03	.2761612	02-	.2383329	03	.2086746-	01	.6260796	01
.4400000	05	.1639770	03	.2394169	02-	.2386088	03	.3256114-	01	.5988259	01
.4500000	05	.1423535	03	.2076051	02-	.2388846	03	.4525465-	01	.5581624	01
.4600000	05	.1236071	03	.1800579	02-	.2391604	03	.5887687-	01	.5045189	01
.4700000	05	.1073518	03	.1561987	02-	.2394363	03	.7336319-	01	.4376041	01
.4800000	05	.9325378	02	.1355178	02-	.2397332	03	.8839272-	01	.2922301	01
.4900000	05	.8102537	02	.1175933	02-	.2400472	03	.1030736-	02	.1129423	01
.5000000	05	.7041640	02	.1020628	02-	.2403611	03	.1173568-	02	.6107242-	00
.5100000	05	.6121033	02	.8860367	03-	.2406751	03	.1312507-	02	.2300490-	01
.5200000	05	.5321899	02	.7693692	03-	.2409891	03	.1447638-	02	.3945298-	01
.5300000	05	.4628126	02	.6685506	03-	.2411732	03	.1578181-	02	.5876378-	01
.5400000	05	.4023914	02	.5837304	03-	.2401566	03	.1701850-	02	.7545432-	01
.5500000	05	.3496658	02	.5094001	03-	.2391400	03	.1820990-	02	.9157356-	01
.5600000	05	.3036805	02	.4442965	03-	.2381234	03	.1935660-	02	.1071570-	02
.5700000	05	.2635953	02	.3873038	03-	.2371068	03	.2045937-	02	.1221782-	02
.5800000	05	.2286722	02	.3374376	03-	.2360902	03	.2151909-	02	.1366791-	02
.5900000	05	.1982303	02	.2944689	03-	.2345247	03	.2254875-	02	.1487861-	02
.6000000	05	.1716794	02	.2568407	03-	.2328695	03	.2356418-	02	.1604318-	02
.6100000	05	.1485390	02	.2238124	03-	.2312142	03	.2456770-	02	.1719239-	02
.6200000	05	.1283898	02	.1948474	03-	.2295590	03	.2555254-	02	.1857951-	02
.6300000	05	.1108620	02	.1694686	03-	.2279037	03	.2646167-	02	.2025756-	02
.6400000	05	.9562903	01	.1472524	03-	.2262485	03	.2728051-	02	.2182812-	02
.6500000	05	.8238428	01	.1281949	03-	.2238885	03	.2802540-	02	.2307535-	02
.6600000	05	.7085880	01	.1115692	03-	.2212623	03	.2871828-	02	.2416960-	02
.6700000	05	.6083903	01	.9694346	04-	.2186361	03	.2936412-	02	.2522102-	02
.6800000	05	.5214245	01	.8409610	04-	.2160100	03	.2996153-	02	.2622502-	02
.6900000	05	.4460691	01	.7282808	04-	.2133838	03	.3050898-	02	.2717192-	02
.7000000	05	.3808856	01	.6296068	04-	.2107576	03	.3100485-	02	.2807370-	02
.7100000	05	.3250670	01	.5343757	04-	.2119260	03	.3134833-	02	.3009396-	02
.7200000	05	.2777557	01	.4526096	04-	.2137950	03	.3142053-	02	.3203345-	02
.7300000	05	.2376669	01	.3839277	04-	.2156639	03	.3119900-	02	.3365228-	02
.7400000	05	.2036477	01	.3261466	04-	.2175328	03	.3067501-	02	.3496707-	02
.7500000	05	.1747369	01	.2774615	04-	.2194017	03	.2983581-	02	.3599504-	02
.7600000	05	.1501669	01	.2357181	04-	.2219420	03	.2864485-	02	.3690628-	02
.7700000	05	.1292901	01	.2004511	04-	.2247063	03	.2705775-	02	.3755418-	02
.7800000	05	.1115247	01	.1708064	04-	.2274706	03	.2503546-	02	.3788857-	02
.7900000	05	.9637674	00	.1458342	04-	.2302348	03	.2253919-	02	.3791648-	02
.8000000	05	.8343518	00	.1247536	04-	.2329991	03	.1951073-	02	.3759199-	02
.8100000	05	.7215842	00	.1107982	04-	.2268886	03	.1629341-	02	.3333443-	02
.8200000	05	.6214090	00	.9850061	05-	.2197843	03	.1332120-	02	.2872604-	02
.8300000	05	.5325445	00	.8723427	05-	.2126801	03	.1068286-	02	.2414411-	02
.8400000	05	.4540237	00	.7694216	05-	.2055759	03	.8448194-	01	.1954180-	02
.8500000	05	.3849343	00	.6756880	05-	.1984717	03	.6682584-	01	.1506122-	02
.8600000	05	.3256319	00	.5671398	05-	.2000299	03	.5099547-	01	.1429048-	02
.8700000	05	.2760059	00	.4734974	05-	.2030761	03	.3305120-	01	.1397213-	02
.8800000	05	.2345312	00	.3964001	05-	.2061223	03	.1233378-	01	.1343084-	02
.8900000	05	.1997754	00	.3327391	05-	.2091685	03	.1121388	01	.1266689-	02
.9000000	05	.1705736	00	.2800234	05-	.2122147	03	.3767841	01	.1166452-	02
.9100000	05	.1459250	00	.2372221	05-	.2143053	03	.6530163	01	.8690497-	01
.9200000	05	.1250137	00	.2016762	05-	.2159540	03	.9191845	01	.5626472-	01
.9300000	05	.1072302	00	.1716766	05-	.2176027	03	.1172493	02	.2622458-	01
.9400000	05	.9208743	01-	.1463242	05-	.2192514	03	.1413487	02	.2907391	00

FIGURE 8
8 FEBRUARY 1965, 2253 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
285.047	13.853	12.711	252.914	9.416	38777.750
279.973	25.709	9.026	258.618	8.808	43971.600
295.171	59.389	8.299	268.849	13.879	48072.800
272.291	61.391	8.483	259.158	10.743	51697.850
263.125	71.480	9.098	258.955	7.976	56220.350
261.383	77.112	10.492	243.150	5.863	61632.400
299.512	34.885	18.055	235.012	6.177	67074.090
90.850	15.189	20.636	215.132	7.129	71783.590
253.910	19.664	9.513	200.046	2.866	78859.140



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.000	- 3.798	16.189
45000.000	- 9.670	32.449
50000.000	- 13.135	57.786
55000.000	5.586	68.369
60000.000	10.650	74.650
65000.000	- 6.231	47.847
70000.000	- 6.368	2.062
75000.000	2.600	.305

LEGEND

5 m/sec or less

10 m/sec

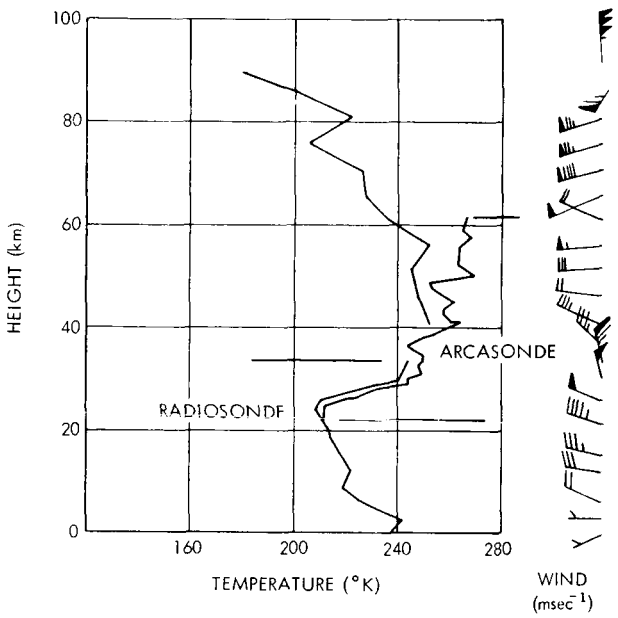
50 m/sec

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 (%)	
.2700000	05	.1747004	04	.2826522	01-	.2153276	03	.7072776-	01	.3525084-	01
.2800000	05	.1494599	04	.2382835	01-	.2185188	03	.7523315-	01	.4975482-	01
.2900000	05	.1281618	04	.2013870	01-	.2217101	03	.7825083-	01	.6235690-	01
.3000000	05	.1101457	04	.1706214	01-	.2249014	03	.7984168-	01	.7321339-	01
.3100000	05	.9486887	03	.1449007	01-	.2280927	03	.8006837-	01	.8244234-	01
.3200000	05	.8188431	03	.1233427	01-	.2312840	03	.7898193-	01	.9005776-	01
.3300000	05	.7082285	03	.1052288	01-	.2344753	03	.7699577-	01	.9073890-	01
.3400000	05	.6137868	03	.8997206	02-	.2376665	03	.7480297-	01	.9003304-	01
.3500000	05	.5329787	03	.7709162	02-	.2408578	03	.7242400-	01	.8911747-	01
.3600000	05	.4636903	03	.6619253	02-	.2440491	03	.6986981-	01	.8799318-	01
.3700000	05	.4041574	03	.5694941	02-	.2472404	03	.6714539-	01	.8669044-	01
.3800000	05	.3529041	03	.4909368	02-	.2504317	03	.6425735-	01	.8519938-	01
.3900000	05	.3086551	03	.4247568	02-	.2531578	03	.6132779-	01	.8194420-	01
.4000000	05	.2702387	03	.3702836	02-	.2542560	03	.5887056-	01	.7329466-	01
.4100000	05	.2367489	03	.3230004	02-	.2553543	03	.5727686-	01	.6550050-	01
.4200000	05	.2075359	03	.2819321	02-	.2564525	03	.5651344-	01	.5859460-	01
.4300000	05	.1820372	03	.2462383	02-	.2575507	03	.5656241-	01	.5252867-	01
.4400000	05	.1597686	03	.2151653	02-	.2586886	03	.5738998-	01	.4747730-	01
.4500000	05	.1403576	03	.1872185	02-	.2611832	03	.5864105-	01	.4786397-	01
.4600000	05	.1234618	03	.1631237	02-	.2636777	03	.5998363-	01	.4834187-	01
.4700000	05	.1087353	03	.1423200	02-	.2661723	03	.6142120-	01	.4898110-	01
.4800000	05	.9588271	02	.1243324	02-	.2686668	03	.6269341-	01	.5572702-	01
.4900000	05	.8455652	02	.1105911	02-	.2663699	03	.6398479-	01	.4892408-	01
.5000000	05	.7448329	02	.9840392	03-	.2636966	03	.6637982-	01	.4173800-	01
.5100000	05	.6552797	02	.8745915	03-	.2610234	03	.6997121-	01	.3562503-	01
.5200000	05	.5758712	02	.7741796	03-	.2591444	03	.7458308-	01	.3344726-	01
.5300000	05	.5058527	02	.6801674	03-	.2590994	03	.7949785-	01	.4240869-	01
.5400000	05	.4443556	02	.5975823	03-	.2590545	03	.8364601-	01	.5351478-	01
.5500000	05	.3903418	02	.5250341	03-	.2590095	03	.8695383-	01	.6369294-	01
.5600000	05	.3428999	02	.4613019	03-	.2589645	03	.8941745-	01	.7298364-	01
.5700000	05	.3010659	02	.4086310	03-	.2566779	03	.9152497-	01	.7384019-	01
.5800000	05	.2639957	02	.3624397	03-	.2537576	03	.9395977-	01	.7271215-	01
.5900000	05	.2311476	02	.3210371	03-	.2508374	03	.9687496-	01	.7198601-	01
.6000000	05	.2020805	02	.2839723	03-	.2479172	03	.1002889-	02	.7174315-	01
.6100000	05	.1763950	02	.2508325	03-	.2449969	03	.1042165-	02	.7195316-	01
.6200000	05	.1537528	02	.2207952	03-	.2426004	03	.1084572-	02	.7736729-	01
.6300000	05	.1338747	02	.1934421	03-	.2411048	03	.1119655-	02	.8977002-	01
.6400000	05	.1164712	02	.1693454	03-	.2396092	03	.1143140-	02	.1009960-	02
.6500000	05	.1012463	02	.1481334	03-	.2381136	03	.1154671-	02	.1111106-	02
.6600000	05	.8793768	01	.1294748	03-	.2366181	03	.1153746-	02	.1199972-	02
.6700000	05	.7631364	01	.1130749	03-	.2351225	03	.1139765-	02	.1277776-	02
.6800000	05	.6611790	01	.9967159	04-	.2311031	03	.1118951-	02	.1256111-	02
.6900000	05	.5713928	01	.8773910	04-	.2268819	03	.1098538-	02	.1226090-	02
.7000000	05	.4924703	01	.7705395	04-	.2226606	03	.1079194-	02	.1197355-	02
.7100000	05	.4232628	01	.6750524	04-	.2184393	03	.1061012-	02	.1169089-	02
.7200000	05	.3627839	01	.5887549	04-	.2146702	03	.1042660-	02	.1158907-	02
.7300000	05	.3103008	01	.5086329	04-	.2125380	03	.1017256-	02	.1210160-	02
.7400000	05	.2650054	01	.4387882	04-	.2104059	03	.9787858-	01	.1250659-	02
.7500000	05	.2259696	01	.3779842	04-	.2082738	03	.9263708-	01	.1280642-	02
.7600000	05	.1923779	01	.3251228	04-	.2061417	03	.8587364-	01	.1297568-	02
.7700000	05	.1635142	01	.2792306	04-	.2040096	03	.7749412-	01	.1301227-	02
.7800000	05	.1387509	01	.2394452	04-	.2018774	03	.6734640-	01	.1292902-	02

FIGURE 9
8 FEBRUARY 1965, 2300 GMT, CHURCHILL

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
309.769	33.349	2.273	252.887	.654	40989.550
279.785	18.480	3.722	248.942	1.063	46691.950
268.361	28.839	5.101	246.701	1.366	51573.350
267.479	52.906	5.308	251.814	1.300	56303.550
292.684	19.827	4.312	237.157	1.036	60871.100
246.774	52.066	3.883	227.689	.789	65829.740
247.918	91.340	8.234	226.337	1.680	71119.990
241.711	77.254	8.850	206.132	1.790	76142.900
240.988	75.352	17.617	222.110	4.116	80961.790
219.480	62.761	19.905	200.725	4.429	85524.000
356.520	153.847	12.794	179.961	2.548	89804.700



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
45000.000	- 8.539	20.414
50000.000	- .454	25.405
55000.000	1.913	46.233
60000.000	- 5.744	24.885
65000.000	15.817	42.901
70000.000	31.416	76.851
75000.000	36.094	71.808
80000.000	36.558	66.322
85000.000	47.075	42.889

LEGEND

5 m/sec or less

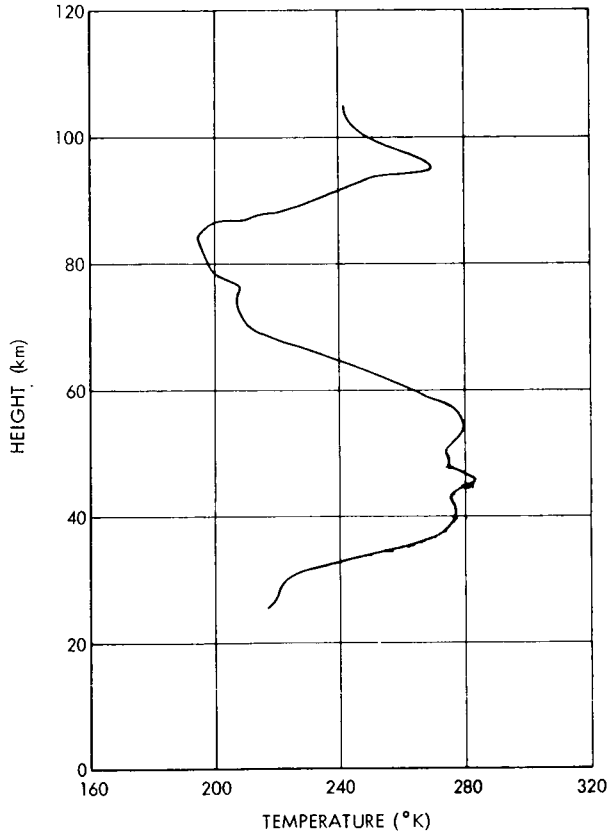
10 m/sec

50 m/sec

DIRECTION OF NORTH WIND

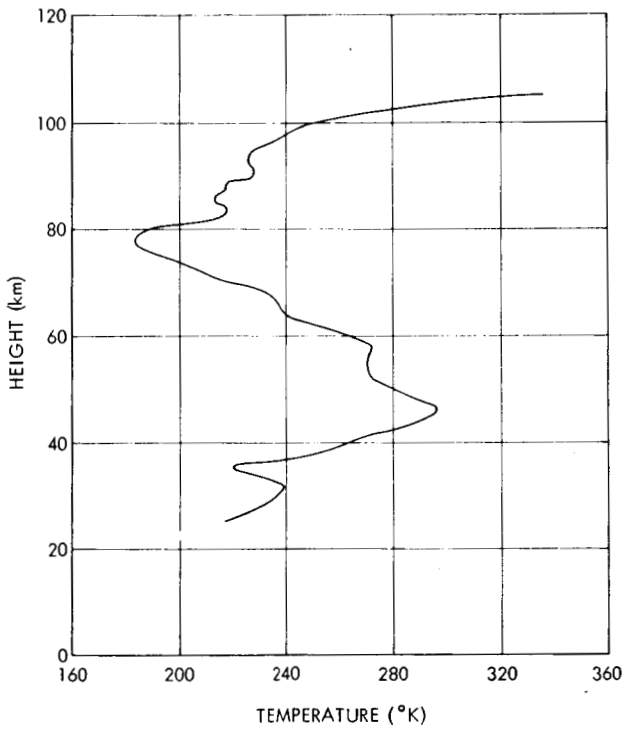
HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.3500000	05	.5553735	03	.7711091	02-	.2509155	03	.3344887-	01	.8888957-	01
.3600000	05	.4853712	03	.6730313	02-	.2512447	03	.2637955-	01	.7269120-	01
.3700000	05	.4242856	03	.5875582	02-	.2515739	03	.2068654-	01	.5772065-	01
.3800000	05	.3709681	03	.5130518	02-	.2519030	03	.1635985-	01	.4399079-	01
.3900000	05	.3244218	03	.4480924	02-	.2522322	03	.1337862-	01	.3150740-	01
.4000000	05	.2837771	03	.3914430	02-	.2525614	03	.1172184-	01	.2033925-	01
.4100000	05	.2482773	03	.3420431	02-	.2528799	03	.1137107-	01	.1040631-	01
.4200000	05	.2172051	03	.3000569	02-	.2521881	03	.1255584-	01	.1926520	00
.4300000	05	.1899599	03	.2631411	02-	.2514962	03	.1550165-	01	.1250955	01
.4400000	05	.1660778	03	.2306932	02-	.2508044	03	.2016648-	01	.2126346	01
.4500000	05	.1451503	03	.2021812	02-	.2501125	03	.2649659-	01	.2823168	01
.4600000	05	.1268181	03	.1771360	02-	.2494207	03	.3442935-	01	.3340517	01
.4700000	05	.1107664	03	.1551011	02-	.2488005	03	.4388948-	01	.3642543	01
.4800000	05	.9672192	02	.1356857	02-	.2483413	03	.5448966-	01	.3049830	01
.4900000	05	.8444075	02	.1186766	02-	.2478821	03	.6526640-	01	.2061046	01
.5000000	05	.7370354	02	.1037783	02-	.2474229	03	.7615365-	01	.1059789	01
.5100000	05	.6431806	02	.9073146	03-	.2469637	03	.8714314-	01	.4573047	01-
.5200000	05	.5612631	02	.7911220	03-	.2471617	03	.9805812-	01	.1229485-	01
.5300000	05	.4899708	02	.6876253	03-	.2482427	03	.1083983-	02	.3190887-	01
.5400000	05	.4280049	02	.5980581	03-	.2493237	03	.1173645-	02	.5276111-	01
.5500000	05	.3741100	02	.5204932	03-	.2504046	03	.1249216-	02	.7179084-	01
.5600000	05	.3272050	02	.4532783	03-	.2514856	03	.1310957-	02	.8910749-	01
.5700000	05	.2861290	02	.3994037	03-	.2495789	03	.1365976-	02	.9475364-	01
.5800000	05	.2498738	02	.3533387	03-	.2463700	03	.1424262-	02	.9599685-	01
.5900000	05	.2178345	02	.3120979	03-	.2431610	03	.1488911-	02	.9782629-	01
.6000000	05	.1895657	02	.2752284	03-	.2399521	03	.1560080-	02	.1003254-	02
.6100000	05	.1646723	02	.2421553	03-	.2369106	03	.1637479-	02	.1040575-	02
.6200000	05	.1428432	02	.2117618	03-	.2350012	03	.1717171-	02	.1151152-	02
.6300000	05	.1237696	02	.1849888	03-	.2330917	03	.1789960-	02	.1295464-	02
.6400000	05	.1071214	02	.1614283	03-	.2311823	03	.1854136-	02	.1430252-	02
.6500000	05	.9260563	01	.1407158	03-	.2292728	03	.1909558-	02	.1556205-	02
.6600000	05	.7997034	01	.1223852	03-	.2276450	03	.1955236-	02	.1681830-	02
.6700000	05	.6902004	01	.1057457	03-	.2273896	03	.1986573-	02	.1843124-	02
.6800000	05	.5956205	01	.9135772	04-	.2271342	03	.1999542-	02	.1985461-	02
.6900000	05	.5139387	01	.7891791	04-	.2268788	03	.1993589-	02	.2108209-	02
.7000000	05	.4434061	01	.6816400	04-	.2266234	03	.1967964-	02	.2212943-	02
.7100000	05	.3825077	01	.5886855	04-	.2263680	03	.1921729-	02	.2298926-	02
.7200000	05	.3295731	01	.5153473	04-	.2227973	03	.1862654-	02	.2261239-	02
.7300000	05	.2832506	01	.4510578	04-	.2187746	03	.1800319-	02	.2205132-	02
.7400000	05	.2427671	01	.3938322	04-	.2147518	03	.1735812-	02	.2147071-	02
.7500000	05	.2074739	01	.3430024	04-	.2107291	03	.1669054-	02	.2087603-	02
.7600000	05	.1767842	01	.2979531	04-	.2067063	03	.1599704-	02	.2024809-	02
.7700000	05	.1505405	01	.2509692	04-	.2089734	03	.1506883-	02	.2181643-	02
.7800000	05	.1284720	01	.2108331	04-	.2122891	03	.1364389-	02	.2333341-	02
.7900000	05	.1099136	01	.1776033	04-	.2156049	03	.1165918-	02	.2439193-	02
.8000000	05	.9426481	00	.1500103	04-	.2189206	03	.9063466-	01	.2495733-	02
.8100000	05	.8102616	00	.1271939	04-	.2219306	03	.6006487-	01	.2346937-	02
.8200000	05	.6960953	00	.1116299	04-	.2172433	03	.2903393-	01	.1922585-	02
.8300000	05	.5960659	00	.9769650	05-	.2125560	03	.2919052-	01-	.1504651-	02
.8400000	05	.5086731	00	.8525262	05-	.2078688	03	.2571616	01	.1085159-	02
.8500000	05	.4325483	00	.7416664	05-	.2031815	03	.4860191	01	.6767264-	01
.8600000	05	.3664336	00	.6433924	05-	.1984164	03	.6791495	01	.2766743-	01
.8700000	05	.3091800	00	.5564695	05-	.1935656	03	.8316991	01	.1102746	01
.8800000	05	.2597635	00	.4795460	05-	.1887148	03	.9392551	01	.4727247	01
.8900000	05	.2172698	00	.4116808	05-	.1838641	03	.9976604	01	.8052697	01

FIGURE 10
8 MARCH 1965, 1748 GMT, 0°00', 84°04'W



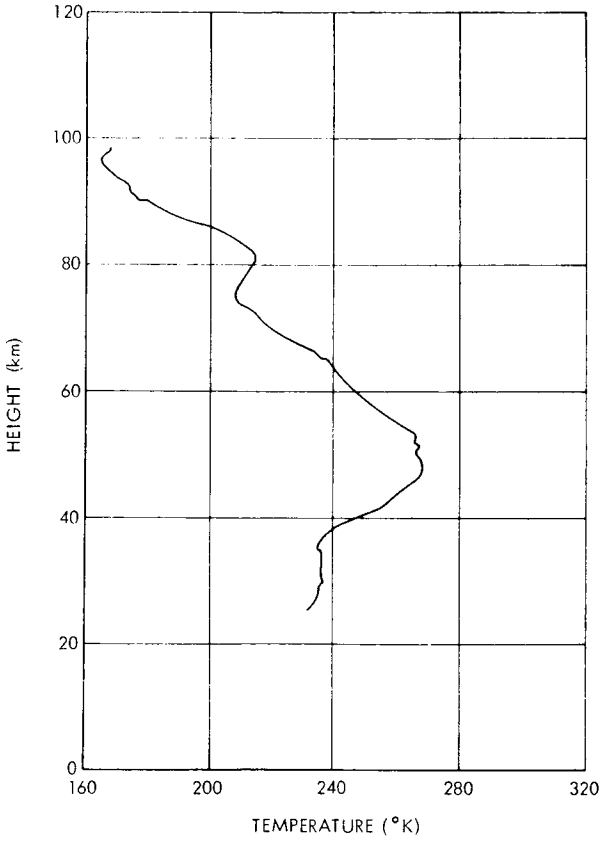
HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.2500000	05	.2506453	04	.4020000	01-	.2173000	03	.1677637-	01	.2893968	00
.2600000	05	.2146484	04	.3410000	01-	.2194000	03	.1914029-	01	.4582965-	00
.2700000	05	.1835937	04	.2900000	01-	.2210000	03	.2134428-	01	.1017137-	01
.2800000	05	.1573199	04	.2480000	01-	.2213000	03	.2659994-	01	.1100659-	01
.2900000	05	.1359884	04	.2120000	01-	.2227000	03	.2196146-	01	.1294347-	01
.3000000	05	.1165234	04	.1810000	01-	.2244000	03	.2656219-	01	.1683868-	01
.3100000	05	.1001248	04	.1530000	01-	.2276000	03	.2910205-	01	.2115502-	01
.3200000	05	.8652597	03	.1280000	01-	.2350000	03	.2677247-	01	.2569900-	01
.3300000	05	.7519360	03	.1070000	01-	.2438000	03	.2003265-	01	.7543424-	01
.3400000	05	.6572774	03	.9019999	02-	.2533000	03	.9247041-	00	.8772776-	01
.3500000	05	.5759510	03	.7719999	02-	.2595000	03	.2362415	00	.8783703-	01
.3600000	05	.5066235	03	.6619999	02-	.2663000	03	.1625115	01	.8789039-	01
.3700000	05	.4452954	03	.5729999	02-	.2711000	03	.2780721	01	.8106808-	01
.3800000	05	.3932998	03	.4989999	02-	.2751000	03	.4285392	01	.7017476-	01
.3900000	05	.3479703	03	.4389999	02-	.2765000	03	.5823644	01	.5115954-	01
.4000000	05	.3079738	03	.3890000	02-	.2767000	03	.7254510	01	.2645344-	01
.4100000	05	.2733101	03	.3429999	02-	.2774000	03	.8830809	01	.7638064-	00
.4200000	05	.2426460	03	.3060000	02-	.2759000	03	.1031019	02	.2177108	01
.4300000	05	.2146484	03	.2699999	02-	.2759000	03	.1124503	02	.3890097	01
.4400000	05	.1893172	03	.2370000	02-	.2792000	03	.1169422	02	.4918324	01
.4500000	05	.1679857	03	.2070000	02-	.2836000	03	.1266572	02	.5273863	01
.4600000	05	.1493206	03	.1850000	02-	.2813000	03	.1369013	02	.7928365	01
.4700000	05	.1323887	03	.1660000	02-	.2771000	03	.1427500	02	.1092549	02
.4800000	05	.1171900	03	.1480000	02-	.2754000	03	.1455974	02	.1240222	02
.4900000	05	.1035912	03	.1310000	02-	.2750000	03	.1467232	02	.1265910	02
.5000000	05	.9172553	02	.1170000	02-	.2739000	03	.1497452	02	.1393515	02
.5100000	05	.8105977	02	.1020000	02-	.2759000	03	.1504694	02	.1247106	02
.5200000	05	.7172723	02	.9019999	03-	.2774000	03	.1526465	02	.1261347	02
.5300000	05	.6359459	02	.7969999	03-	.2783000	03	.1572331	02	.1220769	02
.5400000	05	.5652852	02	.7049999	03-	.2790000	03	.1657360	02	.1166193	02
.5500000	05	.5012906	02	.6249999	03-	.2787000	03	.1725659	02	.1145787	02
.5600000	05	.4439621	02	.5579999	03-	.2768000	03	.1789569	02	.1213376	02
.5700000	05	.3919666	02	.4979999	03-	.2745000	03	.1827706	02	.1287141	02
.5800000	05	.3466371	02	.4500000	03-	.2684000	03	.1896681	02	.1513074	02
.5900000	05	.3053073	02	.4020000	03-	.2650000	03	.1928771	02	.1620512	02
.6000000	05	.2693104	02	.3590000	03-	.2613000	03	.1990348	02	.1735094	02
.6100000	05	.2359799	02	.3200000	03-	.2576000	03	.1983724	02	.1839573	02
.6200000	05	.2079823	02	.2859999	03-	.2525000	03	.2059951	02	.1951024	02
.6300000	05	.1826511	02	.2550000	03-	.2480000	03	.2115839	02	.1998870	02
.6400000	05	.1586532	02	.2260000	03-	.2438000	03	.2064513	02	.1997664	02
.6500000	05	.1373216	02	.2030000	03-	.2365000	03	.1997034	02	.2181218	02
.6600000	05	.1191898	02	.1790000	03-	.2317000	03	.1990123	02	.2166112	02
.6700000	05	.1029246	02	.1590000	03-	.2263000	03	.1949841	02	.2264733	02
.6800000	05	.8852579	01	.1400000	03-	.2199000	03	.1890909	02	.2281778	02
.6900000	05	.7586021	01	.1240000	03-	.2138000	03	.1817907	02	.2400000	02
.7000000	05	.6506113	01	.1070000	03-	.2114000	03	.1785434	02	.2223683	02
.7100000	05	.5532862	01	.9199999	04-	.2096000	03	.1684983	02	.2035268	02
.7200000	05	.4719598	01	.7879999	04-	.2088000	03	.1652955	02	.1833075	02
.7300000	05	.4026323	01	.6749999	04-	.2076000	03	.1655605	02	.1664881	02
.7400000	05	.3413043	01	.5749999	04-	.2075000	03	.1618552	02	.1465375	02
.7500000	05	.2906419	01	.4889999	04-	.2077000	03	.1670492	02	.1280276	02
.7600000	05	.2479789	01	.4150000	04-	.2086000	03	.1783269	02	.1108137	02
.7700000	05	.2119819	01	.3580000	04-	.2061000	03	.1959490	02	.1152649	02
.7800000	05	.1799847	01	.3090000	04-	.2023000	03	.2098184	02	.1236364	02
.7900000	05	.1519871	01	.2670000	04-	.1988000	03	.2215645	02	.1366539	02
.8000000	05	.1286557	01	.2260000	04-	.1980000	03	.2411317	02	.1305653	02
.8100000	05	.1085241	01	.1920000	04-	.1966000	03	.2589219	02	.1552346	02
.8200000	05	.9172552	00	.1630000	04-	.1965000	03	.2794566	02	.1794500	02
.8300000	05	.7732675	00	.1380000	04-	.1955000	03	.2969065	02	.2000000	02
.8400000	05	.6519445	00	.1170000	04-	.1936000	03	.3146164	02	.2234655	02
.8500000	05	.5492865	00	.9759999	05-	.1960000	03	.3316038	02	.2269012	02
.8600000	05	.4639605	00	.8109999	05-	.1995000	03	.3521421	02	.2256310	02
.8700000	05	.3946330	00	.6469999	05-	.2129000	03	.3825429	02	.1755087	02
.8800000	05	.3399710	00	.5339999	05-	.2213000	03	.4316982	02	.1661936	02
.8900000	05	.2933083	00	.4459999	05-	.2288000	03	.4846546	02	.1706036	02
.9000000	05	.2533117	00	.3779999	05-	.2337000	03	.5410133	02	.1924289	02
.9100000	05	.2199813	00	.3219999	05-	.2382000	03	.6059372	02	.2394149	02
.9200000	05	.1919836	00	.2760000	05-	.2427000	03	.6768596	02	.2915302	02
.9300000	05	.1679857	00	.2350000	05-	.2482000	03	.7502705	02	.3329551	02
.9400000	05	.1466542	00	.1950000	05-	.2630000	03	.8176592	02	.3365318	02
.9500000	05	.1299889	00	.1680000	05-	.2701000	03	.9112647	02	.3872833	02
.9600000	05	.1149235	00	.1500000	05-	.2678000	03	.9992616	02	.4880953	02
.9700000	05	.1015913	00	.1340000	05-	.2641000	03	.1085679	03	.5923945	02
.9800000	05	.8945905	01-	.1210000	05-	.2573000	03	.1162048	03	.7177740	02
.9900000	05	.7852665	01-	.1080000	05-	.2529000	03	.1228655	03	.8271019	02
.1000000	06	.6879414	01-	.9649998	06-	.2484000	03	.1287419	03	.9400884	02
.1010000	06	.6012822	01-	.8519999	06-	.2461000	03	.1335258	03	.1048569	03
.1020000	06	.5252886	01-	.7509999	06-	.2436000	03	.1374400	03	.1150014	03
.1030000	06	.4572944	01-	.6589999	06-	.2422000	03	.1397475	03	.1237691	03
.1040000	06	.3999659	01-	.5760000	06-	.2421000	03	.1424036	03	.1311396	03
.1050000	06	.3479703	01-	.5019999	06-	.2424000	03	.1430300	03	.1371280	03

FIGURE 11
9 MARCH 1965, 0626 GMT, 0°52'S, 84°09'W



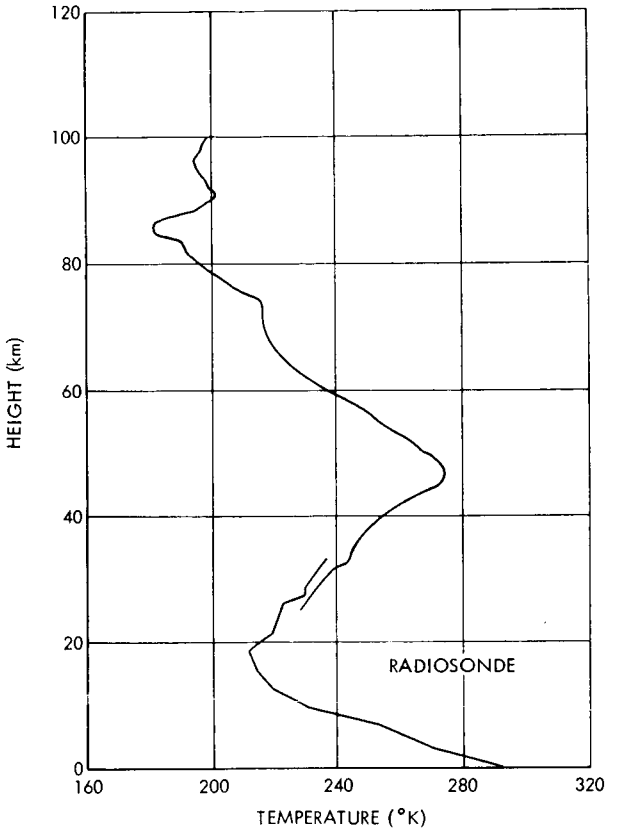
HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.2500000	05	.2479789	04	.3970000	01-	.2179000	03	.2723624-	01	.9579863-	00
.2600000	05	.2133152	04	.3349999	01-	.2216000	03	.2523249-	01	.2209771-	01
.2700000	05	.1826511	04	.2810000	01-	.2270000	03	.2843595-	01	.4089021-	01
.2800000	05	.1573199	04	.2380000	01-	.2312000	03	.2659994-	01	.5088536-	01
.2900000	05	.1359884	04	.2020000	01-	.2353000	03	.2196146-	01	.5950275-	01
.3000000	05	.1181233	04	.1730000	01-	.2380000	03	.1319693-	01	.6029335-	01
.3100000	05	.1023913	04	.1490000	01-	.2397000	03	.7124318-	00	.5648426-	01
.3200000	05	.8879245	03	.1300000	01-	.2388000	03	.1280618-	00	.4094432-	01
.3300000	05	.7692679	03	.1150000	01-	.2329000	03	.2554254	00	.6307854-	00
.3400000	05	.6639435	03	.1030000	01-	.2247000	03	.8012041	01-	.4172989	01
.3500000	05	.5692849	03	.8979999	02-	.2214000	03	.9237948-	00	.6103929	01
.3600000	05	.4906249	03	.7419999	02-	.2305000	03	.1584097-	01	.2233434	01
.3700000	05	.4252971	03	.6019999	02-	.2462000	03	.1835183-	01	.3456020-	01
.3800000	05	.3706351	03	.5099999	02-	.2542000	03	.1724277-	01	.4967763-	01
.3900000	05	.3266388	03	.4369999	02-	.2605000	03	.6636233-	00	.5548231-	01
.4000000	05	.2866422	03	.3770000	02-	.2653000	03	.1743777-	00	.5648572-	01
.4100000	05	.2533118	03	.3249999	02-	.2708000	03	.8675814	00	.5971537-	01
.4200000	05	.2239809	03	.2810000	02-	.2773000	03	.1824793	01	.6170696-	01
.4300000	05	.1986497	03	.2410000	02-	.2863000	03	.2953477	01	.7268457-	01
.4400000	05	.1759850	03	.2110000	02-	.2909000	03	.3828428	01	.6591698-	01
.4500000	05	.1573199	03	.1860000	02-	.2943000	03	.5512333	01	.5406093-	01
.4600000	05	.1399881	03	.1640000	02-	.2970000	03	.6584504	01	.4322968-	01
.4700000	05	.1249227	03	.1480000	02-	.2951000	03	.7830493	01	.1102573-	01
.4800000	05	.1113239	03	.1340000	02-	.2888000	03	.8825241	01	.1769580	01
.4900000	05	.9905824	02	.1210000	02-	.2848000	03	.9654484	01	.4059168	01
.5000000	05	.8799251	02	.1090000	02-	.2808000	03	.1029533	02	.6144709	01
.5100000	05	.7786004	02	.9839999	03-	.2758000	03	.1050562	02	.8501489	01
.5200000	05	.6892746	02	.8799998	03-	.2729000	03	.1076546	02	.9866794	01
.5300000	05	.6079482	02	.7809998	03-	.2715000	03	.1062857	02	.9955093	01
.5400000	05	.5372876	02	.6919999	03-	.2706000	03	.1079991	02	.9602922	01
.5500000	05	.4746262	02	.6099999	03-	.2711000	03	.1101952	02	.8782884	01
.5600000	05	.4186310	02	.5359999	03-	.2723000	03	.1116891	02	.7712708	01
.5700000	05	.3706351	02	.4730000	03-	.2731000	03	.1184022	02	.7205185	01
.5800000	05	.3279721	02	.4209999	03-	.2710000	03	.1256091	02	.7711189	01
.5900000	05	.2893087	02	.3779999	03-	.2666000	03	.1303683	02	.9267501	01
.6000000	05	.2559782	02	.3379999	03-	.2623000	03	.1396766	02	.1048639	02
.6100000	05	.2239809	02	.3040000	03-	.2570000	03	.1374383	02	.1247595	02
.6200000	05	.1973165	02	.2750000	03-	.2488000	03	.1441492	02	.1491371	02
.6300000	05	.1706521	02	.2440000	03-	.2450000	03	.1319908	02	.1481272	02
.6400000	05	.1493206	02	.2170000	03-	.2392000	03	.1354836	02	.1519881	02
.6500000	05	.1295890	02	.1900000	03-	.2382000	03	.1321473	02	.1401140	02
.6600000	05	.1126571	02	.1660000	03-	.2370000	03	.1332948	02	.1282540	02
.6700000	05	.9772501	01	.1450000	03-	.2345000	03	.1346157	02	.1184820	02
.6800000	05	.8465945	01	.1270000	03-	.2320000	03	.1371577	02	.1141328	02
.6900000	05	.7306045	01	.1140000	03-	.2245000	03	.1381746	02	.1400000	02
.7000000	05	.6292797	01	.1010000	03-	.2177000	03	.1399026	02	.1538242	02
.7100000	05	.5386208	01	.8869999	04-	.2115000	03	.1375260	02	.1603569	02
.7200000	05	.4586276	01	.7720000	04-	.2072000	03	.1323775	02	.1592810	02
.7300000	05	.3906334	01	.6709999	04-	.2025000	03	.1308252	02	.1595755	02
.7400000	05	.3293053	01	.5780000	04-	.1988000	03	.1210088	02	.1525195	02
.7500000	05	.2786429	01	.5029999	04-	.1928000	03	.1188683	02	.1603229	02
.7600000	05	.2333134	01	.4340000	04-	.1872000	03	.1086409	02	.1616703	02
.7700000	05	.1946501	01	.3680000	04-	.1844000	03	.9816703	01	.1464175	02
.7800000	05	.1626528	01	.3080000	04-	.1838000	03	.9331737	01	.1200000	02
.7900000	05	.1359884	01	.2540000	04-	.1860000	03	.9297880	01	.8131114	01
.8000000	05	.1137236	01	.2080000	04-	.1910000	03	.9708323	01	.4052024	01
.8100000	05	.9612515	00	.1620000	04-	.2068000	03	.1150893	02	.2527071-	01
.8200000	05	.8212634	00	.1330000	04-	.2148000	03	.1455600	02	.3762663-	01
.8300000	05	.7052733	00	.1120000	04-	.2186000	03	.1828681	02	.2608692-	01
.8400000	05	.6052817	00	.9669999	05-	.2179000	03	.2205231	02	.1118898	01
.8500000	05	.5186225	00	.8449999	05-	.2139000	03	.2572667	02	.6222498	01
.8600000	05	.4426289	00	.7209999	05-	.2144000	03	.2899745	02	.8961766	01
.8700000	05	.3813009	00	.6099999	05-	.2175000	03	.3358354	02	.1082848	02
.8800000	05	.3266388	00	.5229999	05-	.2175000	03	.3755532	02	.1421709	02
.8900000	05	.2813094	00	.4389999	05-	.2228000	03	.4239188	02	.1522710	02
.9000000	05	.2426460	00	.3710000	05-	.2278000	03	.4761285	02	.1703470	02
.9100000	05	.2093155	00	.3200000	05-	.2280000	03	.5280736	02	.2317167	02
.9200000	05	.1813179	00	.2800000	05-	.2257000	03	.5837008	02	.3102480	02
.9300000	05	.1559867	00	.2410000	05-	.2259000	03	.6252511	02	.3669880	02
.9400000	05	.1346552	00	.2080000	05-	.2265000	03	.6689415	02	.4256339	02
.9500000	05	.1167901	00	.1780000	05-	.2290000	03	.7171979	02	.4698596	02
.9600000	05	.1010581	00	.1510000	05-	.2331000	03	.7580513	02	.4980159	02
.9700000	05	.8785918	01-	.1280000	05-	.2383000	03	.8037568	02	.5210933	02
.9800000	05	.7652681	01-	.1100000	05-	.2423000	03	.8495014	02	.5616127	02
.9900000	05	.6692763	01-	.9419999	06-	.2472000	03	.8984647	02	.5936389	02
.1000000	06	.5852835	01-	.8039999	06-	.2537000	03	.9060799	02	.6164053	02
.1010000	06	.5146228	01-	.6830000	06-	.2627000	03	.9986906	02	.6422217	02
.1020000	06	.4559612	01-	.5750000	06-	.2763000	03	.1061028	03	.6461494	02
.1030000	06	.4066320	01-	.4869999	06-	.2901000	03	.1131866	03	.6536502	02
.1040000	06	.3626358	01-	.4090000	06-	.3092000	03	.1197793	03	.6412521	02
.1050000	06	.3279720	01-	.3379999	06-	.3373000	03	.1290627	03	.5965087	02

FIGURE 12
4 APRIL 1965, 1607 GMT, 24°05'S, 76°08'W



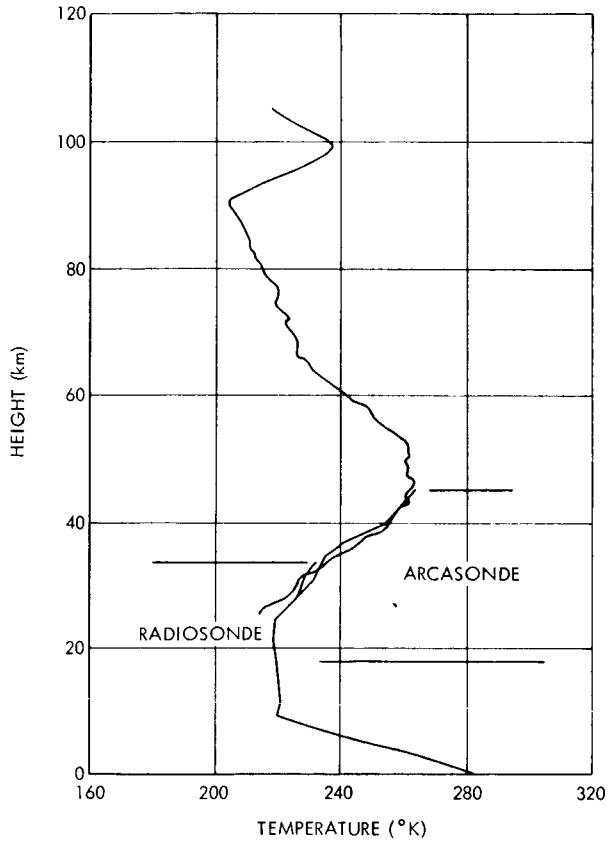
HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.2500000	05	.2719768	04	.4100000	01-	.2312000	03	.6690226	01	.2285202	01
.2600000	05	.2346467	04	.3520000	01-	.2332000	03	.7224416	01	.2752726	01
.2700000	05	.2039826	04	.3019999	01-	.2346000	03	.8503134	01	.3078698	01
.2800000	05	.1759850	04	.2610000	01-	.2349000	03	.8888825	01	.4083579	01
.2900000	05	.1533203	04	.2260000	01-	.2359000	03	.1026905	02	.5223948	01
.3000000	05	.1326554	04	.1940000	01-	.2372000	03	.1082044	02	.5377510	01
.3100000	05	.1143903	04	.1690000	01-	.2362000	03	.1092283	02	.7016211	01
.3200000	05	.9945820	03	.1470000	01-	.2366000	03	.1186856	02	.8447064	01
.3300000	05	.8625933	03	.1270000	01-	.2361000	03	.1241812	02	.9738182	01
.3400000	05	.7479363	03	.1100000	01-	.2364000	03	.1274085	02	.1125271	02
.3500000	05	.6479448	03	.9569999	02-	.2354000	03	.1276588	02	.1307513	02
.3600000	05	.5612855	03	.8279999	02-	.2363000	03	.1258992	02	.1408259	02
.3700000	05	.4866252	03	.7119999	02-	.2380000	03	.1232025	02	.1418491	02
.3800000	05	.4226306	03	.6139999	02-	.2393000	03	.1206260	02	.1441136	02
.3900000	05	.3666355	03	.5239999	02-	.2438000	03	.1150002	02	.1325567	02
.4000000	05	.3146399	03	.4489999	02-	.2482000	03	.9576033	01	.1237080	02
.4100000	05	.2799761	03	.3830000	02-	.2543000	03	.1148522	02	.1080893	02
.4200000	05	.2453124	03	.3330000	02-	.2566000	03	.1152239	02	.1119272	02
.4300000	05	.2146484	03	.2879999	02-	.2599000	03	.1124503	02	.1081610	02
.4400000	05	.1893172	03	.2510000	02-	.2624000	03	.1169422	02	.1111603	02
.4500000	05	.1666525	03	.2190000	02-	.2653000	03	.1177154	02	.1137669	02
.4600000	05	.1466542	03	.1910000	02-	.2676000	03	.1165995	02	.1142874	02
.4700000	05	.1295890	03	.1680000	02-	.2681000	03	.1185831	02	.1226194	02
.4800000	05	.1143903	03	.1470000	02-	.2691000	03	.1182282	02	.1164274	02
.4900000	05	.1005248	03	.1310000	02-	.2678000	03	.1127790	02	.1265910	02
.5000000	05	.8825916	02	.1150000	02-	.2674000	03	.1062956	02	.1198754	02
.5100000	05	.7826000	02	.1020000	02-	.2678000	03	.1107328	02	.1247106	02
.5200000	05	.6892746	02	.9039998	03-	.2660000	03	.1076546	02	.1286316	02
.5300000	05	.6079482	02	.7969999	03-	.2649000	03	.1062857	02	.1220769	02
.5400000	05	.5359543	02	.7069999	03-	.2638000	03	.1052496	02	.1197871	02
.5500000	05	.4706266	02	.6289999	03-	.2607000	03	.1008398	02	.1217120	02
.5600000	05	.4132981	02	.5579999	03-	.2582000	03	.9752762	01	.1213376	02
.5700000	05	.3626357	02	.4959999	03-	.2550000	03	.9426390	01	.1241812	02
.5800000	05	.3173063	02	.4410000	03-	.2507000	03	.8900392	01	.1282812	02
.5900000	05	.2773097	02	.3870000	03-	.2497000	03	.8348666	01	.1186911	02
.6000000	05	.2426460	02	.3430000	03-	.2464000	03	.8031850	01	.1212082	02
.6100000	05	.2119819	02	.3020000	03-	.2449000	03	.7650410	01	.1173597	02
.6200000	05	.1839843	02	.2650000	03-	.2423000	03	.6684190	01	.1073502	02
.6300000	05	.1613196	02	.2330000	03-	.2402000	03	.7008513	01	.9636740	01
.6400000	05	.1399881	02	.2030000	03-	.2399000	03	.6451586	01	.7766630	01
.6500000	05	.1214563	02	.1780000	03-	.2365000	03	.6109693	01	.6810681	01
.6600000	05	.1053244	02	.1560000	03-	.2352000	03	.5952996	01	.6028684	01
.6700000	05	.9132555	01	.1370000	03-	.2325000	03	.6031620	01	.5677267	01
.6800000	05	.7892662	01	.1220000	03-	.2270000	03	.6015340	01	.7026931	01
.6900000	05	.6799421	01	.1060000	03-	.2224000	03	.5925008	01	.6000002	01
.7000000	05	.5839503	01	.9339999	04-	.2187000	03	.5779101	01	.6700182	01
.7100000	05	.5012906	01	.8049999	04-	.2169000	03	.5868762	01	.5308597	01
.7200000	05	.4292967	01	.6969999	04-	.2147000	03	.5995804	01	.4665657	01
.7300000	05	.3679687	01	.6040000	04-	.2116000	03	.6521426	01	.4379085	01
.7400000	05	.3133067	01	.5240000	04-	.2081000	03	.6654688	01	.4484461	01
.7500000	05	.2666440	01	.4470000	04-	.2077000	03	.7068741	01	.3114185	01
.7600000	05	.2279806	01	.3789999	04-	.2088000	03	.8330057	01	.1445395	01
.7700000	05	.1933169	01	.3209999	04-	.2100000	03	.9064534	01	.0000000	00
.7800000	05	.1653193	01	.2729999	04-	.2106000	03	.1112406	02	.7272783-	00
.7900000	05	.1413213	01	.2320000	04-	.2126000	03	.1358407	02	.1234574-	01
.8000000	05	.1205231	01	.1970000	04-	.2140000	03	.1626768	02	.1450724-	01
.8100000	05	.1033245	01	.1680000	04-	.2147000	03	.1986050	02	.1083032	01
.8200000	05	.8865912	00	.1440000	04-	.2146000	03	.2366841	02	.4196818	01
.8300000	05	.7586021	00	.1240000	04-	.2117000	03	.2723100	02	.7826091	01
.8400000	05	.6466116	00	.1080000	04-	.2091000	03	.3038628	02	.1293527	02
.8500000	05	.5519530	00	.9339999	05-	.2058000	03	.3380679	02	.1741042	02
.8600000	05	.4692933	00	.8129999	05-	.2006000	03	.3676839	02	.2286535	02
.8700000	05	.3959663	00	.7119999	05-	.1938000	03	.3872137	02	.2936046	02
.8800000	05	.3319717	00	.6189999	05-	.1871000	03	.3980112	02	.3518237	02
.8900000	05	.2773097	00	.5289999	05-	.1828000	03	.4036733	02	.3884514	02
.9000000	05	.2306470	00	.4499999	05-	.1789000	03	.4051331	02	.4195583	02
.9100000	05	.1919836	00	.3800000	05-	.1754000	03	.4015451	02	.4626636	02
.9200000	05	.1573199	00	.3169999	05-	.1742000	03	.3740933	02	.4833878	02
.9300000	05	.1306555	00	.2640000	05-	.1727000	03	.3613214	02	.4974474	02
.9400000	05	.1083908	00	.2220000	05-	.1692000	03	.3434154	02	.5215901	02
.9500000	05	.8852580	01-	.1840000	05-	.1668000	03	.3016203	02	.5194055	02
.9600000	05	.7239384	01-	.1530000	05-	.1655000	03	.2593957	02	.5178572	02
.9700000	05	.5919495	01-	.1240000	05-	.1654000	03	.2152776	02	.4735591	02
.9800000	05	.4852920	01-	.1010000	05-	.1676000	03	.1728546	02	.4338443	02
.9900000	05	.3986327	01-	.8280000	06-	.1682000	03	.1313543	02	.4007782	02

FIGURE 13
6 APRIL 1965, 1634 GMT, 35°14'S, 74°15'W



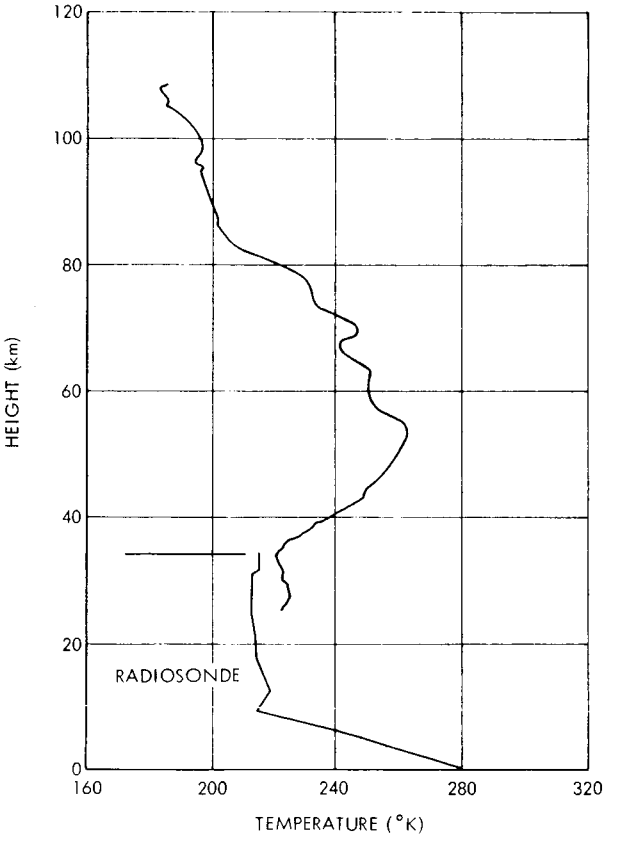
HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.2500000	05	.2493121	04	.3809999	01-	.2284000	03	.2200630-	01	.4949607-	01
.2600000	05	.2159816	04	.3259999	01-	.2304000	03	.1304796-	01	.4836973-	01
.2700000	05	.1853175	04	.2799999	01-	.2315000	03	.1425254-	01	.4430346-	01
.2800000	05	.1613192	04	.2400000	01-	.2330000	03	.1852460-	00	.4290962-	01
.2900000	05	.1333220	02	.2060000	01-	.2352000	03	.9904115-	02	.4087907-	01
.3000000	05	.1203897	04	.1780000	01-	.2358000	03	.5737224	00	.3313414-	01
.3100000	05	.1043911	04	.1530000	01-	.2379000	03	.1226780-	01	.3115502-	01
.3200000	05	.9065895	03	.1310000	01-	.2409000	03	.1971346	01	.3356698-	01
.3300000	05	.7879330	03	.1120000	01-	.2445000	03	.2687964	01	.3223022-	01
.3400000	05	.6866082	03	.9779999	02-	.2446000	03	.3496502	01	.1086223-	01
.3500000	05	.5986157	03	.8499999	02-	.2452000	03	.4180829	01	.4324508	00
.3600000	05	.5212890	03	.7369999	02-	.2462000	03	.4566898	01	.1544531	01
.3700000	05	.4546279	03	.6389999	02-	.2480000	03	.4934813	01	.2477747	01
.3800000	05	.3972995	03	.5529999	02-	.2499000	03	.5345929	01	.3044760	01
.3900000	05	.3466371	03	.4789999	02-	.2520000	03	.5418200	01	.3529513	01
.4000000	05	.3039741	03	.4159999	02-	.2542000	03	.5861595	01	.4111925	01
.4100000	05	.2666440	03	.3600000	02-	.2575000	03	.6176403	01	.4154616	01
.4200000	05	.2333135	03	.3120000	02-	.2608000	03	.6067496	01	.4180580	01
.4300000	05	.2053158	03	.2690000	02-	.2658000	03	.6408296	01	.3505333	01
.4400000	05	.1813179	03	.2340000	02-	.2697000	03	.6974741	01	.3590245	01
.4500000	05	.1599864	03	.2040000	02-	.2734000	03	.7300676	01	.3748155	01
.4600000	05	.1413213	03	.1800000	02-	.2739000	03	.7599593	01	.5011376	01
.4700000	05	.1251893	03	.1590000	02-	.2740000	03	.8060650	01	.6247912	01
.4800000	05	.1106572	03	.1410000	02-	.2726000	03	.8173594	01	.7085898	01
.4900000	05	.9785834	02	.1260000	02-	.2707000	03	.8326232	01	.8359136	01
.5000000	05	.8625932	02	.1120000	02-	.2677000	03	.8122842	01	.9066122	01
.5100000	05	.7612685	02	.9999999	03-	.2646000	03	.8045731	01	.1026574	02
.5200000	05	.6692764	02	.8909999	03-	.2617000	03	.7551768	01	.1124015	02
.5300000	05	.5879499	02	.7889999	03-	.2597000	03	.6989477	01	.1108139	02
.5400000	05	.5172892	02	.6999999	03-	.2572000	03	.6675836	01	.1087001	02
.5500000	05	.4532947	02	.6229999	03-	.2533000	03	.6029891	01	.1110120	02
.5600000	05	.3972995	02	.5499999	03-	.2511000	03	.5504260	01	.1052611	02
.5700000	05	.3466371	02	.4870000	03-	.2482000	03	.4598769	01	.1037827	02
.5800000	05	.3026409	02	.4309999	03-	.2448000	03	.3867184	01	.1026965	02
.5900000	05	.2639775	02	.3820000	03-	.2406000	03	.3139601	01	.1042378	02
.6000000	05	.2293138	02	.3360000	03-	.2376000	03	.2096032	01	.9832635	01
.6100000	05	.1986497	02	.2960000	03-	.2336000	03	.8799397	00	.9516052	01
.6200000	05	.1719853	02	.2609999	03-	.2295000	03	.2734769-	00	.9063536	01
.6300000	05	.1479874	02	.2280000	03-	.2271000	03	.1835170-	01	.7284016	01
.6400000	05	.1279891	02	.1990000	03-	.2245000	03	.2672839-	01	.5643149	01
.6500000	05	.1102573	02	.1730000	03-	.2224000	03	.3674297-	01	.3810384	01
.6600000	05	.9479192	01	.1500000	03-	.2204000	03	.4642303-	01	.1950657	01
.6700000	05	.8145973	01	.1290000	03-	.2199000	03	.5422889-	01	.4936696-	00
.6800000	05	.6986072	01	.1110000	03-	.2186000	03	.6162103-	01	.2623041-	01
.6900000	05	.5986157	01	.9579999	04-	.2178000	03	.6744452-	01	.4200003-	01
.7000000	05	.5132896	01	.8239999	04-	.2173000	03	.7020654-	01	.5866225-	01
.7100000	05	.4399625	01	.7079999	04-	.2166000	03	.7083266-	01	.7380764-	01
.7200000	05	.3773012	01	.6070000	04-	.2165000	03	.6842194-	01	.8849276-	01
.7300000	05	.3239724	01	.5200000	04-	.2167000	03	.6214825-	01	.1013721-	02
.7400000	05	.2773097	01	.4490000	04-	.2149000	03	.5599259-	01	.1047037-	02
.7500000	05	.2373131	01	.3910000	04-	.2112000	03	.4708821-	01	.9803921-	01
.7600000	05	.2026494	01	.3399999	04-	.2070000	03	.3706612-	01	.8993579-	01
.7700000	05	.1719854	01	.2929999	04-	.2041000	03	.2970172-	01	.8722741-	01
.7800000	05	.1453209	01	.2530000	04-	.2008000	03	.2318371-	01	.7999996-	01
.7900000	05	.1231895	01	.2170000	04-	.1974000	03	.9889775-	00	.7620265-	01
.8000000	05	.1039911	01	.1850000	04-	.1956000	03	.3194585	00	.7453726-	01
.8100000	05	.8759254	00	.1580000	04-	.1930000	03	.1610774	01	.4933818-	01
.8200000	05	.7372705	00	.1340000	04-	.1912000	03	.2840045	01	.3039075-	01
.8300000	05	.6186140	00	.1130000	04-	.1902000	03	.3752523	01	.1739130-	01
.8400000	05	.5186225	00	.9709999	05-	.1859000	03	.4577864	01	.1537172	01
.8500000	05	.4319632	00	.8319999	05-	.1811000	03	.4718364	01	.4588300	01
.8600000	05	.3599693	00	.6939999	05-	.1807000	03	.4907565	01	.4881369	01
.8700000	05	.2999744	00	.5629999	05-	.1858000	03	.5091952	01	.2289236	01
.8800000	05	.2519785	00	.4559999	05-	.1924000	03	.6114111	01	.4149235-	00
.8900000	05	.2119819	00	.3740000	05-	.1975000	03	.7300044	01	.1837269-	01
.9000000	05	.1799847	00	.3129999	05-	.1998000	03	.9493050	01	.1261838-	01
.9100000	05	.1519870	00	.2649999	05-	.1998000	03	.1095566	02	.2001536	01
.9200000	05	.1287.90	00	.2260000	05-	.1988000	03	.1248934	02	.5755735	01
.9300000	05	.1089241	00	.1910000	05-	.1984000	03	.1348976	02	.8338048	01
.9400000	05	.9212549	01-	.1630000	05-	.1966000	03	.1418204	02	.1172036	02
.9500000	05	.7772671	01-	.1390000	05-	.1944000	03	.1428382	02	.1478118	02
.9600000	05	.6559441	01-	.1180000	05-	.1944000	03	.1411098	02	.1706349	02
.9700000	05	.5532862	01-	.9879998	06-	.1951000	03	.1359014	02	.1740938	02
.9800000	05	.4666269	01-	.8289999	06-	.1964000	03	.1277448	02	.1768882	02
.9900000	05	.3946330	01-	.6969999	06-	.1974000	03	.1200031	02	.1791574	02
.1000000	06	.3346382	01-	.5839999	06-	.1991000	03	.1126789	02	.1741053	02

FIGURE 14
9 APRIL 1965, 2026 GMT, 44°23'S, 77°47'W



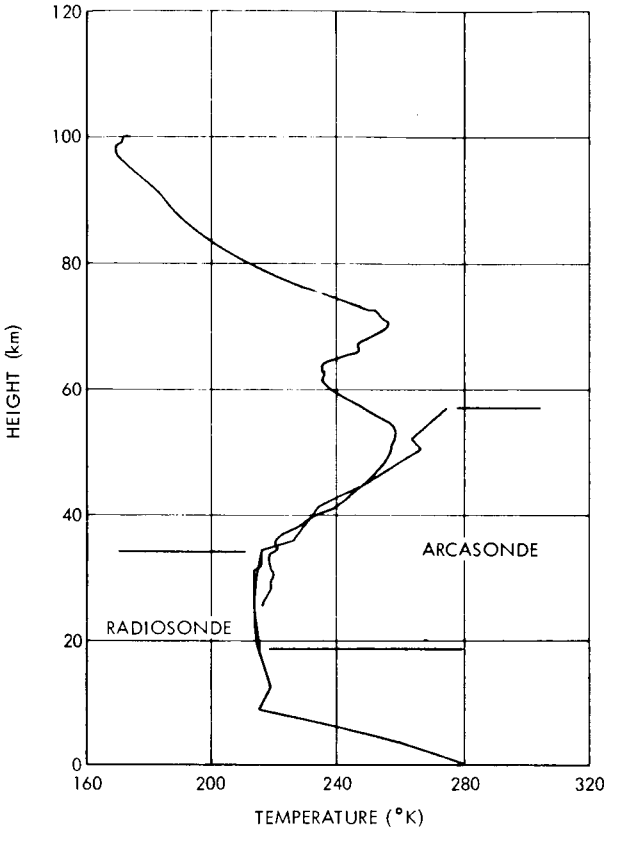
HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.2500000	05	.2479789	04	.4020000	01-	.2146000	03	.2723624-	01	.2893968	00
.2600000	05	.2119819	04	.3410000	01-	.2161000	03	.3132481-	01	.4582965-	00
.2700000	05	.1813179	04	.2860000	01-	.2201000	03	.3552768-	01	.2382416-	01
.2800000	05	.1559867	04	.2420000	01-	.2236000	03	.3484905-	01	.3493381-	01
.2900000	05	.1333220	04	.2070000	01-	.2253000	03	.4113866-	01	.3622315-	01
.3000000	05	.1149235	04	.1770000	01-	.2268000	03	.3992746-	01	.3856596-	01
.3100000	05	.9892492	03	.1520000	01-	.2267000	03	.4073733-	01	.3748733-	01
.3200000	05	.8532607	03	.1290000	01-	.2309000	03	.4026970-	01	.4832166-	01
.3300000	05	.7386038	03	.1100000	01-	.2346000	03	.3740891-	01	.4951179-	01
.3400000	05	.6386123	03	.9379999	02-	.2373000	03	.3738199-	01	.5131779-	01
.3500000	05	.5546195	03	.8049999	02-	.2401000	03	.3476112-	01	.4884564-	01
.3600000	05	.4826256	03	.6859999	02-	.2450000	03	.3188702-	01	.5482298-	01
.3700000	05	.4212974	03	.5939999	02-	.2467000	03	.2758355-	01	.4738999-	01
.3800000	05	.3666355	03	.5109999	02-	.2504000	03	.2784796-	01	.4781424-	01
.3900000	05	.3213060	03	.4389999	02-	.2551000	03	.2285440-	01	.5115954-	01
.4000000	05	.2813094	03	.3820000	02-	.2568000	03	.2031598-	01	.4397229-	01
.4100000	05	.2466457	03	.3330000	02-	.2584000	03	.1786832-	01	.3656986-	01
.4200000	05	.2173148	03	.2920000	02-	.2588000	03	.1205704-	01	.2497666-	01
.4300000	05	.1906504	03	.2530000	02-	.2623000	03	.1192297-	01	.2651120-	01
.4400000	05	.1679857	03	.2240000	02-	.2602000	03	.8910416-	00	.8366917-	00
.4500000	05	.1479874	03	.1950000	02-	.2625000	03	.7468781-	00	.8289685-	00
.4600000	05	.1295890	03	.1710000	02-	.2640000	03	.1333197-	01	.2391876-	00
.4700000	05	.1138570	03	.1520000	02-	.2609000	03	.1721195-	01	.1570327	01
.4800000	05	.1001248	03	.1330000	02-	.2619000	03	.2122446-	01	.1010109	01
.4900000	05	.8799251	02	.1180000	02-	.2606000	03	.2594941-	01	.1479189	01
.5000000	05	.7732675	02	.1030000	02-	.2625000	03	.3073801-	01	.3018817	00
.5100000	05	.6812753	02	.9069999	03-	.2614000	03	.3307585-	01	.1103308	01-
.5200000	05	.5986157	02	.7969999	03-	.2616000	03	.3803293-	01	.4956412-	00
.5300000	05	.5266218	02	.7079999	03-	.2587000	03	.4170424-	01	.3223962-	00
.5400000	05	.4612940	02	.6269999	03-	.2565000	03	.4871548-	01	.6921454-	00
.5500000	05	.4052988	02	.5549999	03-	.2540000	03	.5196808-	01	.1025410-	01
.5600000	05	.3546364	02	.4919999	03-	.2510000	03	.5825059-	01	.1129377-	01
.5700000	05	.3093070	02	.4320000	03-	.2500000	03	.6665713-	01	.2087447-	01
.5800000	05	.2706436	02	.3810000	03-	.2478000	03	.7114370-	01	.2522642-	01
.5900000	05	.2359799	02	.3369999	03-	.2440000	03	.7799454-	01	.2584271-	01
.6000000	05	.2066491	02	.2960000	03-	.2421000	03	.7994859-	01	.3242682-	01
.6100000	05	.1786514	02	.2609999	03-	.2392000	03	.9275760-	01	.3433494-	01
.6200000	05	.1546535	02	.2300000	03-	.2358000	03	.1032343-	02	.3890356-	01
.6300000	05	.1346552	02	.2020000	03-	.2325000	03	.1067885-	02	.4950123-	01
.6400000	05	.1167901	02	.1750000	03-	.2318000	03	.1118896-	02	.7097731-	01
.6500000	05	.1009247	02	.1530000	03-	.2295000	03	.1182762-	02	.8190821-	01
.6600000	05	.8719257	01	.1340000	03-	.2260000	03	.1228701-	02	.8924084-	01
.6700000	05	.7519360	01	.1150000	03-	.2269000	03	.1269805-	02	.1129280-	02
.6800000	05	.6479448	01	.9969999	04-	.2267000	03	.1296714-	02	.1253619-	02
.6900000	05	.5599523	01	.8659999	04-	.2250000	03	.1276764-	02	.1340000-	02
.7000000	05	.4826255	01	.7489999	04-	.2241000	03	.1257527-	02	.1443423-	02
.7100000	05	.4146313	01	.6489999	04-	.2225000	03	.1243302-	02	.1509903-	02
.7200000	05	.3573029	01	.5549999	04-	.2242000	03	.1177989-	02	.1665791-	02
.7300000	05	.3079738	01	.4829999	04-	.2218000	03	.1084619-	02	.1653130-	02
.7400000	05	.2653107	01	.4200000	04-	.2194000	03	.9683901-	01	.1625291-	02
.7500000	05	.2266474	01	.3580000	04-	.2205000	03	.8991573-	01	.1741638-	02
.7600000	05	.1946501	01	.3069999	04-	.2209000	03	.7507667-	01	.1782656-	02
.7700000	05	.1666525	01	.2650000	04-	.2202000	03	.5978852-	01	.1744548-	02
.7800000	05	.1439877	01	.2310000	04-	.2172000	03	.3214531-	01	.1600000-	02
.7900000	05	.1234562	01	.1990000	04-	.2164000	03	.7746658-	00	.1528310-	02
.8000000	05	.1058576	01	.1710000	04-	.2156000	03	.2120065	01	.1445723-	02
.8100000	05	.9052563	00	.1480000	04-	.2137000	03	.5013270	01	.1095066-	02
.8200000	05	.7759339	00	.1270000	04-	.2133000	03	.8233100	01	.8104197-	01
.8300000	05	.6626102	00	.1090000	04-	.2110000	03	.1113147	02	.5217392-	01
.8400000	05	.5652852	00	.9349999	05-	.2108000	03	.1398718	02	.2227335-	01
.8500000	05	.4826255	00	.7999999	05-	.2101000	03	.1700013	02	.5656816	00
.8600000	05	.4119649	00	.6869999	05-	.2088000	03	.2006089	02	.3823486	01
.8700000	05	.3506368	00	.5879999	05-	.2078000	03	.2284082	02	.6831389	01
.8800000	05	.2986412	00	.5039999	05-	.2066000	03	.2576487	02	.1006771	02
.8900000	05	.2546450	00	.4309999	05-	.2057000	03	.2889502	02	.1312336	02
.9000000	05	.2159816	00	.3679999	05-	.2044000	03	.3139167	02	.1608832	02
.9100000	05	.1839843	00	.3110000	05-	.2062000	03	.3431474	02	.1970747	02
.9200000	05	.1573199	00	.2600000	05-	.2104000	03	.3740933	02	.2166588	02
.9300000	05	.1346552	00	.2150000	05-	.2173000	03	.4029945	02	.2195122	02
.9400000	05	.1154568	00	.1820000	05-	.2209000	03	.4309935	02	.2474298	02
.9500000	05	.9945820	01-	.1540000	05-	.2245000	03	.4623625	02	.2716763	02
.9600000	05	.8585935	01-	.1310000	05-	.2284000	03	.4936478	02	.2996032	02
.9700000	05	.7439367	01-	.1110000	05-	.2335000	03	.5273086	02	.3190731	02
.9800000	05	.6452783	01-	.9549998	06-	.2357000	03	.5595099	02	.3557637	02
.9900000	05	.5612855	01-	.8209999	06-	.2381000	03	.5929772	02	.3889358	02
.1000000	06	.4879585	01-	.7219999	06-	.2357000	03	.6224721	02	.4515480	02
.1010000	06	.4226306	01-	.6329999	06-	.2334000	03	.6414117	02	.5220004	02
.1020000	06	.3666354	01-	.5609999	06-	.2282000	03	.6572593	02	.6060692	02
.1030000	06	.3173063	01-	.4939999	06-	.2236000	03	.6635543	02	.6774192	02
.1040000	06	.2733100	01-	.4309999	06-	.2210000	03	.6564246	02	.7295345	02
.1050000	06	.2346467	01-	.3749999	06-	.2181000	03	.6388231	02	.7713744	02

FIGURE 15
13 APRIL 1965, 0405 GMT, 60°00'S, 78°00'W



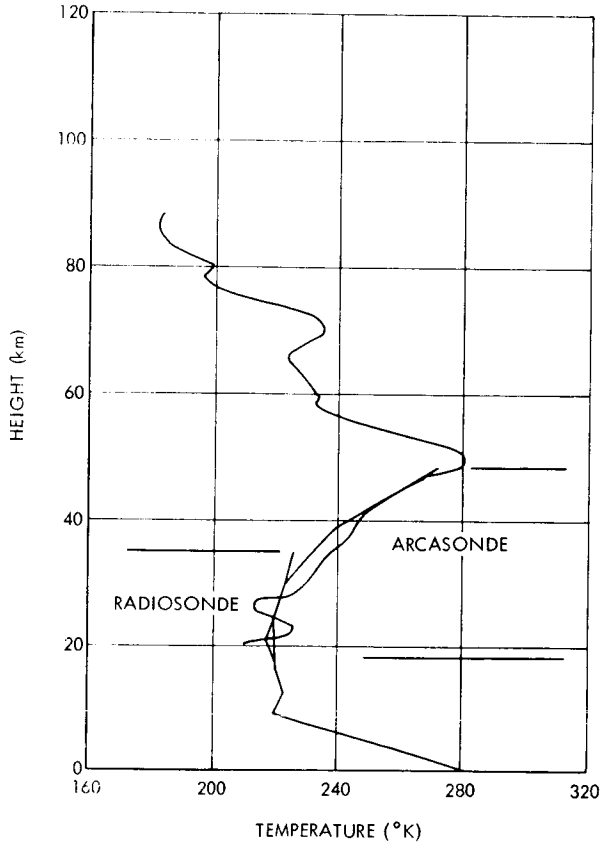
HEIGHT meters		PRESSURE . nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.2500000	05	.2333135	04	.3630000	01-	.2229400	03	.8476519-	01	.9440169-	01
.2600000	05	.1999830	04	.3100000	01-	.2243400	03	.8615546-	01	.9507543-	01
.2700000	05	.1719853	04	.2660000	01-	.2254900	03	.8516963-	01	.9208822-	01
.2800000	05	.1479874	04	.2290000	01-	.2250000	03	.8434399-	01	.8677627-	01
.2900000	05	.1271892	04	.1970000	01-	.2248400	03	.8524629-	01	.8278243-	01
.3000000	05	.1093240	04	.1710000	01-	.2226600	03	.8670595-	01	.7115700-	01
.3100000	05	.9399200	03	.1460000	01-	.2237400	03	.8857117-	01	.7548125-	01
.3200000	05	.8079313	03	.1260000	01-	.2228700	03	.9125533-	01	.7045375-	01
.3300000	05	.6906075	03	.1090000	01-	.2219800	03	.9474745-	01	.5815266-	01
.3400000	05	.5959493	03	.9379999	02-	.2212800	03	.1016905-	02	.5131779-	01
.3500000	05	.5119564	03	.7999999	02-	.2228000	03	.1090103-	02	.5475342-	01
.3600000	05	.4399625	03	.6839999	02-	.2237900	03	.1174661-	02	.5757855-	01
.3700000	05	.3786344	03	.5789999	02-	.2275400	03	.1260561-	02	.7144576-	01
.3800000	05	.3266388	03	.4939999	02-	.2300700	03	.1339010-	02	.7949163-	01
.3900000	05	.2826426	03	.4219999	02-	.2332400	03	.1404362-	02	.8790277-	01
.4000000	05	.2453124	03	.3590000	02-	.2379900	03	.1456784-	02	.1015341-	02
.4100000	05	.2133152	03	.3069999	02-	.2416900	03	.1505888-	02	.1117927-	02
.4200000	05	.1853176	03	.2630000	02-	.2452400	03	.1575210-	02	.1218111-	02
.4300000	05	.1613196	03	.2270000	02-	.2483700	03	.1639349-	02	.1265536-	02
.4400000	05	.1413213	03	.1970000	02-	.2492900	03	.1662263-	02	.1278941-	02
.4500000	05	.1233228	03	.1710000	02-	.2509900	03	.1728906-	02	.1303463-	02
.4600000	05	.1078575	03	.1490000	02-	.2526900	03	.1787918-	02	.1307791-	02
.4700000	05	.9452529	02	.1290000	02-	.2558900	03	.1840788-	02	.1379887-	02
.4800000	05	.8279296	02	.1120000	02-	.2572900	03	.1906530-	02	.1493886-	02
.4900000	05	.7266048	02	.9789998	03-	.2585200	03	.1916704-	02	.1580668-	02
.5000000	05	.6386123	02	.8560000	03-	.2599500	03	.1995233-	02	.1703184-	02
.5100000	05	.5612855	02	.7489999	03-	.2608500	03	.2033757-	02	.1741095-	02
.5200000	05	.4906246	02	.6549999	03-	.2624800	03	.2051453-	02	.1822415-	02
.5300000	05	.4346296	02	.5759999	03-	.2626600	03	.2091028-	02	.1890636-	02
.5400000	05	.3826341	02	.5059999	03-	.2630200	03	.2109287-	02	.1985683-	02
.5500000	05	.3373046	02	.4470000	03-	.2621000	03	.2110128-	02	.2028533-	02
.5600000	05	.2959748	02	.3989999	03-	.2584699	03	.2140287-	02	.1981834-	02
.5700000	05	.2599779	02	.3539999	03-	.2554700	03	.2155092-	02	.1976609-	02
.5800000	05	.2279806	02	.3139999	03-	.2523700	03	.2175644-	02	.1966434-	02
.5900000	05	.1999830	02	.2769999	03-	.2499500	03	.2186394-	02	.1992832-	02
.6000000	05	.1746518	02	.2410000	03-	.2510000	03	.2224081-	02	.2122124-	02
.6100000	05	.1519871	02	.2110000	03-	.2512700	03	.2281668-	02	.2193281-	02
.6200000	05	.1333220	02	.1840000	03-	.2524000	03	.2269262-	02	.2311229-	02
.6300000	05	.1167901	02	.1620000	03-	.2515200	03	.2252938-	02	.2377188-	02
.6400000	05	.1021246	02	.1430000	03-	.2492200	03	.2234104-	02	.2408557-	02
.6500000	05	.8932572	01	.1260000	03-	.2463200	03	.2196105-	02	.2439244-	02
.6600000	05	.7786004	01	.1120000	03-	.2431800	03	.2167525-	02	.2387684-	02
.6700000	05	.6786089	01	.9779999	04-	.2414600	03	.2121154-	02	.2456032-	02
.6800000	05	.5906164	01	.8499999	04-	.2421000	03	.2066758-	02	.2543205-	02
.6900000	05	.5159561	01	.7260000	04-	.2472700	03	.1962161-	02	.2740000-	02
.7000000	05	.4492950	01	.6309999	04-	.2483800	03	.1861289-	02	.2791455-	02
.7100000	05	.3932999	01	.5590000	04-	.2448100	03	.1693807-	02	.2687266-	02
.7200000	05	.3426375	01	.4970000	04-	.2401000	03	.1540086-	02	.2536753-	02
.7300000	05	.2973080	01	.4390000	04-	.2361200	03	.1393377-	02	.2413507-	02
.7400000	05	.2586446	01	.3870000	04-	.2321700	03	.1195315-	02	.2283304-	02
.7500000	05	.2239809	01	.3349999	04-	.2322400	03	.1006226-	02	.2272204-	02
.7600000	05	.1933169	01	.2890000	04-	.2331600	03	.8141175-	01	.2264454-	02
.7700000	05	.1679857	01	.2530000	04-	.2311400	03	.5226684-	01	.2118179-	02
.7800000	05	.1453209	01	.2190000	04-	.2302600	03	.2318371-	01	.2036363-	02
.7900000	05	.1253227	01	.1940000	04-	.2255900	03	.7255021	00	.1741167-	02
.8000000	05	.1078575	01	.1700000	04-	.2212900	03	.4049282	01	.1495748-	02
.8100000	05	.9265878	00	.1490000	04-	.2172100	03	.7487807	01	.1034897-	02
.8200000	05	.7945990	00	.1310000	04-	.2110900	03	.1083665	02	.5209839-	01
.8300000	05	.6786088	00	.1140000	04-	.2071500	03	.1381472	02	.8695640-	00
.8400000	05	.5759509	00	.9789999	05-	.2050200	03	.1613788	02	.2373731	01
.8500000	05	.4892917	00	.8379999	05-	.2035900	03	.1861617	02	.5342546	01
.8600000	05	.4159646	00	.7149999	05-	.2024200	03	.2122654	02	.8055013	01
.8700000	05	.3519700	00	.6079999	05-	.2020200	03	.2330788	02	.1046511	02
.8800000	05	.2986412	00	.5179999	05-	.2009500	03	.2576487	02	.1312515	02
.8900000	05	.2533117	00	.4389999	05-	.2010400	03	.2822017	02	.1522310	02
.9000000	05	.2159816	00	.3750000	05-	.1993000	03	.3139167	02	.1522310	02
.9100000	05	.1826511	00	.3169999	05-	.1995900	03	.3334145	02	.2201693	02
.9200000	05	.1533203	00	.2699999	05-	.1984300	03	.3391567	02	.2634533	02
.9300000	05	.1301222	00	.2300000	05-	.1969500	03	.3557651	02	.3045943	02
.9400000	05	.1098573	00	.1950000	05-	.1965700	03	.3615920	02	.3045943	02
.9500000	05	.9265878	01-	.1640000	05-	.1967200	03	.3623887	02	.3542527	02
.9600000	05	.7812668	01-	.1390000	05-	.1956900	03	.3591268	02	.3786683	02
.9700000	05	.6612770	01-	.1170000	05-	.1956800	03	.3576076	02	.3903742	02
.9800000	05	.5586191	01-	.9849998	06-	.1973200	03	.3500717	02	.3983532	02
.9900000	05	.4719598	01-	.8309999	06-	.1979400	03	.3394633	02	.4058535	02
.1000000	06	.3999659	01-	.7069999	06-	.1968100	03	.3298950	02	.4213912	02
.1010000	06	.3386378	01-	.6020000	06-	.1953100	03	.3152006	02	.4474633	02
.1020000	06	.2853090	01-	.5129999	06-	.1931300	03	.2806491	02	.4686515	02
.1030000	06	.2386463	01-	.4349999	06-	.1917200	03	.2511606	02	.4770797	02
.1040000	06	.2013162	01-	.3710000	06-	.1894200	03	.2200982	02	.4887641	02
.1050000	06	.1679857	01-	.3170000	06-	.1854300	03	.1732484	02	.4974020	02
.1060000	06	.1413213	01-	.2659999	06-	.1855600	03	.1340179	02	.4745010	02
.1070000	06	.1182566	01-	.2240000	06-	.1837000	03	.8701724	01	.4517174	02
.1080000	06	.9879158	02-	.1880000	06-	.1833100	03	.3745440	01	.4210129	02

FIGURE 16
13 APRIL 1965, 1600 GMT, 60°00'S, 78°00'W



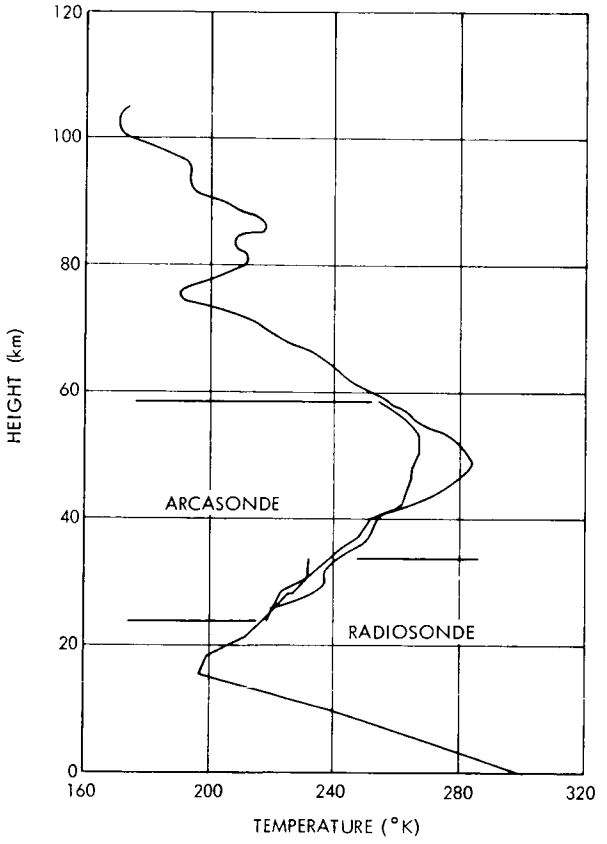
HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.2500000	05	.2346467	04	.3780000	01-	.2159000	03	.7953537-	01	.5698029-	01
.2600000	05	.1999830	04	.3210000	01-	.2172000	03	.8615546-	01	.6296521-	01
.2700000	05	.1719853	04	.2740000	01-	.2182000	03	.8516963-	01	.6478264-	01
.2800000	05	.1466542	04	.2340000	01-	.2185000	03	.9259310-	01	.6683684-	01
.2900000	05	.1259893	04	.2000000	01-	.2192000	03	.9387605-	01	.6881459-	01
.3000000	05	.1077242	04	.1710000	01-	.2195000	03	.1000712-	02	.7115700-	01
.3100000	05	.9225882	03	.1470000	01-	.2192000	03	.1053777-	02	.6914894-	01
.3200000	05	.7905994	03	.1260000	01-	.2186000	03	.1107499-	02	.7045375-	01
.3300000	05	.6772757	03	.1080000	01-	.2184000	03	.1173353-	02	.6679345-	01
.3400000	05	.5812838	03	.9179999	02-	.2201000	03	.1237966-	02	.7154561-	01
.3500000	05	.4972910	03	.7879999	02-	.2200000	03	.1345334-	02	.6893212-	01
.3600000	05	.4266303	03	.6749999	02-	.2201000	03	.1442095-	02	.6997887-	01
.3700000	05	.3653022	03	.5719999	02-	.2232000	03	.1568288-	02	.8267181-	01
.3800000	05	.3146399	03	.4819999	02-	.2279000	03	.1657169-	02	.1018522-	02
.3900000	05	.2706436	03	.4109999	02-	.2302000	03	.1769271-	02	.1116779-	02
.4000000	05	.2346467	03	.3510000	02-	.2330000	03	.1828228-	02	.1215557-	02
.4100000	05	.2039826	03	.2980000	02-	.2378000	03	.1877505-	02	.1378313-	02
.4200000	05	.1759850	03	.2550000	02-	.2417000	03	.1999481-	02	.1485242-	02
.4300000	05	.1533203	03	.2200000	02-	.2440000	03	.2053926-	02	.1534880-	02
.4400000	05	.1346552	03	.1890000	02-	.2471000	03	.2055552-	02	.1633096-	02
.4500000	05	.1170567	03	.1640000	02-	.2489000	03	.2149167-	02	.1659462-	02
.4600000	05	.1023913	03	.1420000	02-	.2506000	03	.2204105-	02	.1715769-	02
.4700000	05	.8945905	02	.1230000	02-	.2529000	03	.2278094-	02	.1780822-	02
.4800000	05	.7839333	02	.1070000	02-	.2549000	03	.2336617-	02	.1873623-	02
.4900000	05	.6866082	02	.9359999	03-	.2555000	03	.2399454-	02	.1950464-	02
.5000000	05	.6026153	02	.8139999	03-	.2576000	03	.2446441-	02	.2073230-	02
.5100000	05	.5279550	02	.7159999	03-	.2572000	03	.2506811-	02	.2104973-	02
.5200000	05	.4626273	02	.6259999	03-	.2582000	03	.2565644-	02	.2184476-	02
.5300000	05	.4066320	02	.5489999	03-	.2582000	03	.2600502-	02	.2270762-	02
.5400000	05	.3573028	02	.4839999	03-	.2569000	03	.2631670-	02	.2334131-	02
.5500000	05	.3133067	02	.4280000	03-	.2552000	03	.2671463-	02	.2367365-	02
.5600000	05	.2733101	02	.3820000	03-	.2503000	03	.2742156-	02	.2323459-	02
.5700000	05	.2399796	02	.3379999	03-	.2472000	03	.2758547-	02	.2339250-	02
.5800000	05	.2093155	02	.2989999	03-	.2435000	03	.2816235-	02	.2350203-	02
.5900000	05	.1826511	02	.2640000	03-	.2402000	03	.2863573-	02	.2368619-	02
.6000000	05	.1586532	02	.2310000	03-	.2380000	03	.2936379-	02	.2449006-	02
.6100000	05	.1373216	02	.2020000	03-	.2359000	03	.3026420-	02	.2526269-	02
.6200000	05	.1189232	02	.1760000	03-	.2361000	03	.3104182-	02	.2645523-	02
.6300000	05	.1031912	02	.1530000	03-	.2349000	03	.3154993-	02	.2800678-	02
.6400000	05	.8945904	01	.1320000	03-	.2356000	03	.3197237-	02	.2992515-	02
.6500000	05	.7772672	01	.1120000	03-	.2408000	03	.3209446-	02	.3279328-	02
.6600000	05	.6772757	01	.9539999	04-	.2474000	03	.3186820-	02	.3515938-	02
.6700000	05	.5919496	01	.8369999	04-	.2462000	03	.3127293-	02	.3543659-	02
.6800000	05	.5172893	01	.7199999	04-	.2501000	03	.3051698-	02	.3683657-	02
.6900000	05	.4519615	01	.6210000	04-	.2539000	03	.2959102-	02	.3790000-	02
.7000000	05	.3972995	01	.5400000	04-	.2561000	03	.2803158-	02	.3831039-	02
.7100000	05	.3479704	01	.4770000	04-	.2544000	03	.2651131-	02	.3759975-	02
.7200000	05	.3053073	01	.4209999	04-	.2526000	03	.2461789-	02	.3678015-	02
.7300000	05	.2679772	01	.3779999	04-	.2462000	03	.2242461-	02	.3467667-	02
.7400000	05	.2333134	01	.3380000	04-	.2404000	03	.2057630-	02	.3260353-	02
.7500000	05	.2026494	01	.3000000	04-	.2353000	03	.1862776-	02	.3079585-	02
.7600000	05	.1746518	01	.2660000	04-	.2301000	03	.1701031-	02	.2880086-	02
.7700000	05	.1506538	01	.2350000	04-	.2245000	03	.1500488-	02	.2679128-	02
.7800000	05	.1295890	01	.2070000	04-	.2184000	03	.1289308-	02	.2472727-	02
.7900000	05	.1111905	01	.1810000	04-	.2142000	03	.1063291-	02	.2294594-	02
.8000000	05	.9519189	00	.1580000	04-	.2104000	03	.8169111-	01	.2096048-	02
.8100000	05	.8105976	00	.1360000	04-	.2079000	03	.5967503-	01	.1817087-	02
.8200000	05	.6906078	00	.1180000	04-	.2040000	03	.3668816-	01	.1461650-	02
.8300000	05	.5852835	00	.1020000	04-	.2005000	03	.1837592-	01	.1130435-	02
.8400000	05	.4959578	00	.8729999	05-	.1976000	03	.7626809	02-	.8710655-	01
.8500000	05	.4172978	00	.7469999	05-	.1948000	03	.1163100	01	.6096799-	01
.8600000	05	.3519700	00	.6389999	05-	.1917000	03	.2576286	01	.3430556-	01
.8700000	05	.2946415	00	.5429999	05-	.1895000	03	.3223647	01	.1344479-	01
.8800000	05	.2466457	00	.4589999	05-	.1879000	03	.3868312	01	.2402345	00
.8900000	05	.2079823	00	.3889999	05-	.1857000	03	.5275507	01	.2099733	01
.9000000	05	.1733186	00	.3280000	05-	.1842000	03	.5437750	01	.3470031	01
.9100000	05	.1439877	00	.2750000	05-	.1828000	03	.5115800	01	.5850662	01
.9200000	05	.1199898	00	.2320000	05-	.1805000	03	.4803734	01	.8563401	01
.9300000	05	.9999148	01-	.1950000	05-	.1783000	03	.4182765	01	.1060691	02
.9400000	05	.8292627	01-	.1640000	05-	.1763000	03	.2780363	01	.1240576	02
.9500000	05	.6866082	01-	.1380000	05-	.1735000	03	.9539805	00	.1395541	02
.9600000	05	.5612855	01-	.1140000	05-	.1713000	03	.2356259-	01	.1300525	02
.9700000	05	.4626272	01-	.9449999	06-	.1706000	03	.5022218-	01	.1229946	02
.9800000	05	.3799676	01-	.7829999	06-	.1693000	03	.8169358-	01	.1115843	02
.9900000	05	.3133067	01-	.6389999	06-	.1707000	03	.1108083-	02	.8103528	01
.1000000	06	.2586446	01-	.5199999	06-	.1729000	03	.1400011-	02	.4543622	01

FIGURE 17
15 APRIL 1965, 1600 GMT, 52°35'S, 78°20'W



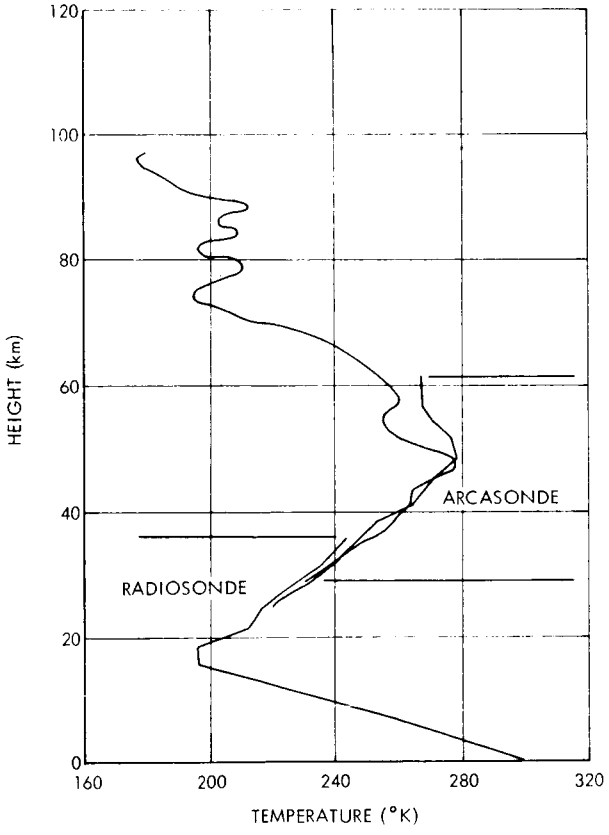
HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.2000000	05	.5132896	04	.8509999	01-	.2101000	03	.7169139-	01	.4285236-	01
.2100000	05	.4386293	04	.6939999	01-	.2200000	03	.7245541-	01	.8340480-	01
.2200000	05	.3759680	04	.5800000	01-	.2259000	03	.7110827-	01	.1009145-	02
.2300000	05	.3239724	04	.4980000	01-	.2265000	03	.6551623-	01	.9464423-	01
.2400000	05	.2786429	04	.4400000	01-	.2206000	03	.6235756-	01	.6259318-	01
.2500000	05	.2386463	04	.3860000	01-	.2150000	03	.6384557-	01	.3702224-	01
.2600000	05	.2039826	04	.3320000	01-	.2132000	03	.6787862-	01	.3085498-	01
.2700000	05	.1733186	04	.2810000	01-	.2154000	03	.7807789-	01	.4089021-	01
.2800000	05	.1493206	04	.2330000	01-	.2225000	03	.7609482-	01	.7082471-	01
.2900000	05	.1279891	04	.1950000	01-	.2281000	03	.7949317-	01	.9209427-	01
.3000000	05	.1103906	04	.1670000	01-	.2298000	03	.7779577-	01	.9288428-	01
.3100000	05	.9532522	03	.1430000	01-	.2326000	03	.7564311-	01	.9447818-	01
.3200000	05	.8252631	03	.1230000	01-	.2338000	03	.7176086-	01	.9258577-	01
.3300000	05	.7146058	03	.1050000	01-	.2359000	03	.6868450-	01	.9271580-	01
.3400000	05	.6186140	03	.9089999	02-	.2371000	03	.6752662-	01	.8064804-	01
.3500000	05	.5372876	03	.7829999	02-	.2389000	03	.6492487-	01	.7483990-	01
.3600000	05	.4666269	03	.6749999	02-	.2406000	03	.6397913-	01	.6997887-	01
.3700000	05	.4052988	03	.5799999	02-	.2435000	03	.6451072-	01	.6984203-	01
.3800000	05	.3533032	03	.5019999	02-	.2452000	03	.6319909-	01	.6458467-	01
.3900000	05	.3079738	03	.4339999	02-	.2471000	03	.6339982-	01	.6196636-	01
.4000000	05	.2679772	03	.3790000	02-	.2469000	03	.6674645-	01	.5148030-	01
.4100000	05	.2346467	03	.3290000	02-	.2484000	03	.6564766-	01	.4814254-	01
.4200000	05	.2053158	03	.2840000	02-	.2510000	03	.6660606-	01	.5168968-	01
.4300000	05	.1786514	03	.2470000	02-	.2529000	03	.7410966-	01	.4959789-	01
.4400000	05	.1573199	03	.2130000	02-	.2568000	03	.7183678-	01	.5706315-	01
.4500000	05	.1373216	03	.1840000	02-	.2614000	03	.7900250-	01	.6427233-	01
.4600000	05	.1213230	03	.1590000	02-	.2655000	03	.7626762-	01	.7239946-	01
.4700000	05	.1069242	03	.1380000	02-	.2697000	03	.7705383-	01	.7784836-	01
.4800000	05	.9452529	02	.1180000	02-	.2787000	03	.7596290-	01	.1038202-	02
.4900000	05	.8385953	02	.1040000	02-	.2810000	03	.7170030-	01	.1056072-	02
.5000000	05	.7439367	02	.9209999	03-	.2814000	03	.6750314-	01	.1031259-	02
.5100000	05	.6599438	02	.8249999	03-	.2786000	03	.6335143-	01	.9030757-	01
.5200000	05	.5839502	02	.7519999	03-	.2700000	03	.6160013-	01	.6113829-	01
.5300000	05	.5132896	02	.6859999	03-	.2610000	03	.6596487-	01	.3419722-	01
.5400000	05	.4506283	02	.6199999	03-	.2532000	03	.7071038-	01	.1800854-	01
.5500000	05	.3946330	02	.5559999	03-	.2470000	03	.7691635-	01	.8470759-	00
.5600000	05	.3439707	02	.4959999	03-	.2412000	03	.8657394-	01	.3255451-	00
.5700000	05	.2986412	02	.4400000	03-	.2363000	03	.9884137-	01	.2742506-	00
.5800000	05	.2586446	02	.3860000	03-	.2334000	03	.1123245-	02	.1243417-	01
.5900000	05	.2239809	02	.3330000	03-	.2341000	03	.1248761-	02	.3740533-	01
.6000000	05	.1946501	02	.2909999	03-	.2321000	03	.1333709-	02	.4877109-	01
.6100000	05	.1679857	02	.2530000	03-	.2315000	03	.1469213-	02	.6393378-	01
.6200000	05	.1453210	02	.2200000	03-	.2301000	03	.1573495-	02	.8069037-	01
.6300000	05	.1255893	02	.1910000	03-	.2294000	03	.1669255-	02	.1012610-	02
.6400000	05	.1083908	02	.1660000	03-	.2273000	03	.1757606-	02	.1187556-	02
.6500000	05	.9345870	01	.1450000	03-	.2244000	03	.1835029-	02	.1299129-	02
.6600000	05	.8052647	01	.1250000	03-	.2240000	03	.1899290-	02	.1504112-	02
.6700000	05	.6946075	01	.1060000	03-	.2279000	03	.1935405-	02	.1823511-	02
.6800000	05	.5999489	01	.9019999	04-	.2319000	03	.1941402-	02	.2087025-	02
.6900000	05	.5199557	01	.7709999	04-	.2351000	03	.1899853-	02	.2290000-	02
.7000000	05	.4519615	01	.6659999	04-	.2363000	03	.1812988-	02	.2391615-	02
.7100000	05	.3919666	01	.5800000	04-	.2353000	03	.1721964-	02	.2412548-	02
.7200000	05	.3399711	01	.5119999	04-	.2309000	03	.1605922-	02	.2311505-	02
.7300000	05	.2933084	01	.4549999	04-	.2246000	03	.1509161-	02	.2137006-	02
.7400000	05	.2533118	01	.4060000	04-	.2164000	03	.1376855-	02	.1904448-	02
.7500000	05	.2146484	01	.3589999	04-	.2091000	03	.1380967-	02	.1718570-	02
.7600000	05	.1826511	01	.3150000	04-	.2029000	03	.1320925-	02	.1568522-	02
.7700000	05	.1546535	01	.2729999	04-	.1984000	03	.1274837-	02	.1495327-	02
.7800000	05	.1310555	01	.2340000	04-	.1961000	03	.1190730-	02	.1490909-	02
.7900000	05	.1106572	01	.1940000	04-	.1984000	03	.1106152-	02	.1741167-	02
.8000000	05	.9359203	00	.1640000	04-	.1990000	03	.9712487-	01	.1795898-	02
.8100000	05	.7905994	00	.1420000	04-	.1944000	03	.8287380-	01	.1456076-	02
.8200000	05	.6639434	00	.1220000	04-	.1902000	03	.7388170-	01	.1172214-	02
.8300000	05	.5572858	00	.1040000	04-	.1865000	03	.6533293-	01	.9565220-	01
.8400000	05	.4652937	00	.8799999	05-	.1843000	03	.6175650-	01	.7978665-	01
.8500000	05	.3879669	00	.7409999	05-	.1826000	03	.5947401-	01	.6851039-	01
.8600000	05	.3226392	00	.6189999	05-	.1820000	03	.5971732-	01	.6453070-	01
.8700000	05	.2693104	00	.5149999	05-	.1822000	03	.5650787-	01	.6431693-	01
.8800000	05	.2239809	00	.4269999	05-	.1831000	03	.5676344-	01	.6748187-	01

FIGURE 18
23 MAY 1965, 0202 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 (%)	
.2500000	05	.2453124	04	.3890000	01-	.2204000	03	.3769600-	01	.2953792-	01
.2600000	05	.2119819	04	.3250000	01-	.2266000	03	.3132481-	01	.5128878-	01
.2700000	05	.1826511	04	.2740000	01-	.2320000	03	.2843595-	01	.6478264-	01
.2800000	05	.1573199	04	.2320000	01-	.2370000	03	.2659994-	01	.7481258-	01
.2900000	05	.1373216	04	.2000000	01-	.2391000	03	.1237290-	01	.6881459-	01
.3000000	05	.1189232	04	.1730000	01-	.2397000	03	.6514746-	00	.6029335-	01
.3100000	05	.1033245	04	.1510000	01-	.2385000	03	.1925356	00	.4381964-	01
.3200000	05	.8959238	03	.1300000	01-	.2403000	03	.7716842	00	.4094432-	01
.3300000	05	.7799337	03	.1120000	01-	.2417000	03	.1645447	01	.3223022-	01
.3400000	05	.6772757	03	.9639999	02-	.2449000	03	.2089759	01	.2502168-	01
.3500000	05	.5906164	03	.8269999	02-	.2489000	03	.2788659	01	.2285138-	01
.3600000	05	.5159561	03	.7129999	02-	.2522000	03	.3497161	01	.1762210-	01
.3700000	05	.4519615	03	.6219999	02-	.2532000	03	.4319360	01	.2485767-	00
.3800000	05	.3959663	03	.5429999	02-	.2538000	03	.4992412	01	.1181386	01
.3900000	05	.3466371	03	.4759999	02-	.2536000	03	.5418200	01	.2881107	01
.4000000	05	.3026409	03	.4119999	02-	.2566000	03	.5397290	01	.3110842	01
.4100000	05	.2666440	03	.3559999	02-	.2604000	03	.6176403	01	.2997334	01
.4200000	05	.2333135	03	.3060000	02-	.2663000	03	.6067496	01	.2177108	01
.4300000	05	.2066491	03	.2639999	02-	.2721000	03	.7099259	01	.1581428	01
.4400000	05	.1826511	03	.2310000	02-	.2756000	03	.7761319	01	.2262165	01
.4500000	05	.1613196	03	.2020000	02-	.2792000	03	.8194847	01	.2731009	01
.4600000	05	.1439877	03	.1770000	02-	.2816000	03	.9629772	01	.3261191	01
.4700000	05	.1273225	03	.1570000	02-	.2833000	03	.9901943	01	.4911458	01
.4800000	05	.1130570	03	.1380000	02-	.2855000	03	.1051953	02	.4807474	01
.4900000	05	.1005248	03	.1230000	02-	.2847000	03	.1127790	02	.5779158	01
.5000000	05	.8919241	02	.1100000	02-	.2834000	03	.1179935	02	.7118521	01
.5100000	05	.7932658	02	.9789998	03-	.2821000	03	.1258705	02	.7950156	01
.5200000	05	.7039401	02	.8759999	03-	.2797000	03	.1312218	02	.9367402	01
.5300000	05	.6226136	02	.7849999	03-	.2764000	03	.1329724	02	.1051825	02
.5400000	05	.5506198	02	.7059999	03-	.2719000	03	.1354929	02	.1182032	02
.5500000	05	.4866252	02	.6329999	03-	.2678000	03	.1382620	02	.1288453	02
.5600000	05	.4292967	02	.5639999	03-	.2653000	03	.1400124	02	.1333950	02
.5700000	05	.3773012	02	.5019999	03-	.2622000	03	.1385174	02	.1377801	02
.5800000	05	.3319717	02	.4490000	03-	.2578000	03	.1393361	02	.1487489	02
.5900000	05	.2906419	02	.3979999	03-	.2553000	03	.1355774	02	.1504884	02
.6000000	05	.2546450	02	.3549999	03-	.2506000	03	.1337409	02	.1604340	02
.6100000	05	.2226477	02	.3139999	03-	.2473000	03	.1306678	02	.1617580	02
.6200000	05	.1946501	02	.2769999	03-	.2446000	03	.1286878	02	.1574943	02
.6300000	05	.1706521	02	.2450000	03-	.2414000	03	.1319908	02	.1528326	02
.6400000	05	.1479874	02	.2160000	03-	.2382000	03	.1257453	02	.1466794	02
.6500000	05	.1282557	02	.1880000	03-	.2377000	03	.1204997	02	.1281128	02
.6600000	05	.1111905	02	.1660000	03-	.2336000	03	.1185417	02	.1282540	02
.6700000	05	.9625846	01	.1470000	03-	.2275000	03	.1175887	02	.1339094	02
.6800000	05	.8292627	01	.1300000	03-	.2223000	03	.1138774	02	.1404508	02
.6900000	05	.7119394	01	.1130000	03-	.2194000	03	.1090971	02	.1300000	02
.7000000	05	.6106146	01	.9859999	04-	.2159000	03	.1060919	02	.1264066	02
.7100000	05	.5226221	01	.8629999	04-	.2109000	03	.1037381	02	.1289605	02
.7200000	05	.4452954	01	.7559999	04-	.2049000	03	.9945963	01	.1352544	02
.7300000	05	.3773012	01	.6619999	04-	.1983000	03	.9223059	01	.1440224	02
.7400000	05	.3173063	01	.5770000	04-	.1919000	03	.8016235	01	.1505255	02
.7500000	05	.2666440	01	.4879999	04-	.1903000	03	.7068741	01	.1257208	02
.7600000	05	.2239809	01	.4060000	04-	.1922000	03	.6429534	01	.8672382	01
.7700000	05	.1893172	01	.3320000	04-	.1975000	03	.6808025	01	.3426795	01
.7800000	05	.1586532	01	.2720000	04-	.2035000	03	.6643249	01	.1090904-	01
.7900000	05	.1359884	01	.2260000	04-	.2086000	03	.9297880	01	.3788849-	01
.8000000	05	.1155901	01	.1900000	04-	.2116000	03	.1150893	02	.4952475-	01
.8100000	05	.9879158	00	.1620000	04-	.2119000	03	.1460210	02	.2527071-	01
.8200000	05	.8425949	00	.1400000	04-	.2093000	03	.1753148	02	.1302460	01
.8300000	05	.7186054	00	.1210000	04-	.2076000	03	.2052286	02	.5217391	01
.8400000	05	.6119479	00	.1030000	04-	.2077000	03	.2339651	02	.7706786	01
.8500000	05	.5226221	00	.8499999	05-	.2142000	03	.2669628	02	.6851027	01
.8600000	05	.4479619	00	.7179999	05-	.2175000	03	.3055165	02	.8508393	01
.8700000	05	.3853005	00	.6209999	05-	.2160000	03	.3498476	02	.1282703	02
.8800000	05	.3293053	00	.5439999	05-	.2109000	03	.3867823	02	.1880324	02
.8900000	05	.2799761	00	.4739999	05-	.2061000	03	.4171703	02	.2440945	02
.9000000	05	.2386463	00	.4089999	05-	.2032000	03	.4517967	02	.2902208	02
.9100000	05	.2026494	00	.3570000	05-	.1973000	03	.4794088	02	.3741340	02
.9200000	05	.1706521	00	.3049999	05-	.1950000	03	.4905419	02	.4272342	02
.9300000	05	.1439877	00	.2600000	05-	.1929000	03	.5002318	02	.4747588	02
.9400000	05	.1210564	00	.2180000	05-	.1935000	03	.5003950	02	.4941741	02
.9500000	05	.1021246	00	.1830000	05-	.1940000	03	.5015679	02	.5111479	02
.9600000	05	.8599267	01-	.1550000	05-	.1928000	03	.4959671	02	.5376985	02
.9700000	05	.7226051	01-	.1330000	05-	.1888000	03	.4835147	02	.5805109	02
.9800000	05	.6052818	01-	.1140000	05-	.1841000	03	.4628461	02	.6183987	02
.9900000	05	.5039571	01-	.9829999	06-	.1785000	03	.4302741	02	.6630011	02
.1000000	06	.4172978	01-	.8319999	06-	.1748000	03	.3875240	02	.6726980	02
.1010000	06	.3453039	01-	.6979999	06-	.1719000	03	.3410903	02	.6782880	02
.1020000	06	.2839758	01-	.5810000	06-	.1702000	03	.2836226	02	.6633266	02
.1030000	06	.2333135	01-	.4790000	06-	.1699000	03	.2232017	02	.6264856	02
.1040000	06	.1919836	01-	.3919999	06-	.1710000	03	.1635373	02	.5730335	02
.1050000	06	.1586531	01-	.3189999	06-	.1734000	03	.1080679	02	.5068492	02

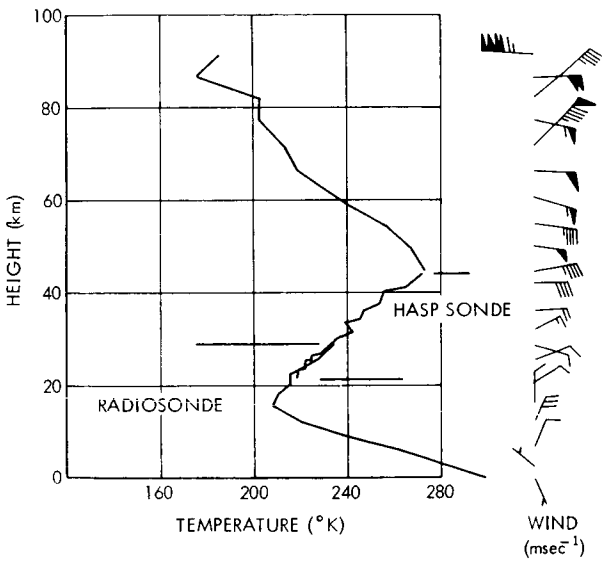
FIGURE 19
23 MAY 1965, 1400 GMT, ASCENSION ISLAND



HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.2500000	05	.2546450	04	.3970000	01-	.2233000	03	.1086668-	00	.9579863-	00
.2600000	05	.2186480	04	.3369999	01-	.2262000	03	.8633286-	01-	.1625950-	01
.2700000	05	.1879840	04	.2850000	01-	.2306000	03	.6913640-	02-	.2723742-	01
.2800000	05	.1626528	04	.2430000	01-	.2336000	03	.6396721	00	.3094594-	01
.2900000	05	.1413213	03	.2080000	01-	.2363000	03	.8983608-	02	.3156723-	01
.3000000	05	.1223896	04	.1790000	01-	.2387000	03	.2244378	01	.2770232-	01
.3100000	05	.1062576	04	.1540000	01-	.2407000	03	.3036708	01	.2482265-	01
.3200000	05	.9239214	03	.1320000	01-	.2433000	03	.3920800	01	.2618958-	01
.3300000	05	.8039316	03	.1140000	01-	.2454000	03	.4772996	01	.1494864-	01
.3400000	05	.6999405	03	.9849998	02-	.2478000	03	.5506150	01	.3782598-	00
.3500000	05	.6119479	03	.8489999	02-	.2512000	03	.6501113	01	.3142996	00
.3600000	05	.5346212	03	.7319999	02-	.2547000	03	.7241240	01	.8556275	00
.3700000	05	.4692934	03	.6359999	02-	.2570000	03	.8319811	01	.1996634	01
.3800000	05	.4106317	03	.5529999	02-	.2596000	03	.8881024	01	.3044760	01
.3900000	05	.3613025	03	.4839999	02-	.2605000	03	.9878186	01	.4610194	01
.4000000	05	.3173063	03	.4199999	02-	.2635000	03	.1050464	02	.5112997	01
.4100000	05	.2799761	03	.3679999	02-	.2647000	03	.1148522	02	.6469154	01
.4200000	05	.2466457	03	.3240000	02-	.2647000	03	.1212849	02	.8187524	01
.4300000	05	.2173148	03	.2840000	02-	.2660000	03	.1262696	02	.9276996	01
.4400000	05	.1919836	03	.2470000	02-	.2693000	03	.1326737	02	.9345260	01
.4500000	05	.1693189	03	.2160000	02-	.2726000	03	.1355989	02	.9850987	01
.4600000	05	.1493206	03	.1880000	02-	.2776000	03	.1369013	02	.9678554	01
.4700000	05	.1325220	03	.1650000	02-	.2798000	03	.1439008	02	.1025727	02
.4800000	05	.1174567	03	.1470000	02-	.2787000	03	.1482040	02	.1164274	02
.4900000	05	.1041245	03	.1320000	02-	.2742000	03	.1526265	02	.1351909	02
.5000000	05	.9185885	02	.1200000	02-	.2673000	03	.1514163	02	.1685656	02
.5100000	05	.8105977	02	.1070000	02-	.2631000	03	.1504694	02	.1798435	02
.5200000	05	.7119394	02	.9569998	03-	.2592000	03	.1440766	02	.1948014	02
.5300000	05	.6252801	02	.8489998	03-	.2566000	03	.1378246	02	.1952865	02
.5400000	05	.5479533	02	.7469999	03-	.2557000	03	.1299940	02	.1831414	02
.5500000	05	.4799591	02	.6529999	03-	.2564000	03	.1226694	02	.1645118	02
.5600000	05	.4212974	02	.5669999	03-	.2592000	03	.1187700	02	.1394236	02
.5700000	05	.3706351	02	.4949999	03-	.2611000	03	.1184022	02	.1219147	02
.5800000	05	.3266388	02	.4330000	03-	.2627000	03	.1210334	02	.1078135	02
.5900000	05	.2866423	02	.3839999	03-	.2603000	03	.1199501	02	.1100190	02
.6000000	05	.2519785	02	.3400000	03-	.2583000	03	.1218692	02	.1114016	02
.6100000	05	.2213145	02	.3009999	03-	.2566000	03	.1238973	02	.1136598	02
.6200000	05	.1946501	02	.2670000	03-	.2536000	03	.1286878	02	.1157076	02
.6300000	05	.1706521	02	.2360000	03-	.2508000	03	.1319908	02	.1104837	02
.6400000	05	.1493206	02	.2080000	03-	.2491000	03	.1354836	02	.1042098	02
.6500000	05	.1298556	02	.1840000	03-	.2457000	03	.1344768	02	.1041104	02
.6600000	05	.1133237	02	.1630000	03-	.2425000	03	.1400005	02	.1078638	02
.6700000	05	.9852494	01	.1450000	03-	.2374000	03	.1439032	02	.1184820	02
.6800000	05	.8545939	01	.1290000	03-	.2310000	03	.1479025	02	.1316782	02
.6900000	05	.7372705	01	.1150000	03-	.2228000	03	.1485593	02	.1500000	02
.7000000	05	.6332794	01	.1020000	03-	.2151000	03	.1471478	02	.1652482	02
.7100000	05	.5399540	01	.9049999	04-	.2079000	03	.1403417	02	.1839041	02
.7200000	05	.4586276	01	.7909999	04-	.2021000	03	.1323775	02	.1878125	02
.7300000	05	.3879669	01	.6829999	04-	.1982000	03	.1231063	02	.1803131	02
.7400000	05	.3266389	01	.5839999	04-	.1954000	03	.1119319	02	.1644833	02
.7500000	05	.2773097	01	.4879999	04-	.1973000	03	.1135148	02	.1257208	02
.7600000	05	.2333134	01	.4060000	04-	.2007000	03	.1086409	02	.8672382	01
.7700000	05	.1986498	01	.3320000	04-	.2081000	03	.1207321	02	.3426795	01
.7800000	05	.1693189	01	.2790000	04-	.2113000	03	.1381255	02	.1454543	01
.7900000	05	.1439877	01	.2410000	04-	.2092000	03	.1572717	02	.2596849	01
.8000000	05	.1229229	01	.2100000	04-	.2038000	03	.1858274	02	.5052532	01
.8100000	05	.1041245	01	.1840000	04-	.1969000	03	.2078846	02	.1070998	02
.8200000	05	.8785919	00	.1550000	04-	.1977000	03	.2255261	02	.1215630	02
.8300000	05	.7439366	00	.1270000	04-	.2049000	03	.2477135	02	.1043478	02
.8400000	05	.6346126	00	.1050000	04-	.2101000	03	.2796675	02	.9798186	01
.8500000	05	.5412872	00	.9219999	05-	.2042000	03	.3122115	02	.1590194	02
.8600000	05	.4586276	00	.7889999	05-	.2026000	03	.3366001	02	.1923832	02
.8700000	05	.3906334	00	.6549999	05-	.2072000	03	.3685307	02	.1900436	02
.8800000	05	.3333049	00	.5469999	05-	.2126000	03	.4036258	02	.1945841	02
.8900000	05	.2826426	00	.4799999	05-	.2060000	03	.4306671	02	.2598424	02
.9000000	05	.2413128	00	.4229999	05-	.1987000	03	.4680179	02	.3343048	02
.9100000	05	.2037826	00	.3700000	05-	.1917000	03	.4801437	02	.4241725	02
.9200000	05	.1706521	00	.3160000	05-	.1880000	03	.4905419	02	.4787084	02
.9300000	05	.1426545	00	.2690000	05-	.1851000	03	.4863408	02	.5258081	02
.9400000	05	.1193232	00	.2290000	05-	.1811000	03	.4789136	02	.5695682	02
.9500000	05	.9919155	01-	.1930000	05-	.1787000	03	.4584419	02	.5937241	02
.9600000	05	.8225966	01-	.1620000	05-	.1773000	03	.4310260	02	.6071429	02
.9700000	05	.6826085	01-	.1320000	05-	.1800000	03	.4014014	02	.5686274	02

FIGURE 20
23 JULY 1965, 1705 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
77.557	47.244	7.389	273.729	4.662	44464.500
97.723	49.558	6.008	267.806	4.381	49894.600
99.570	43.651	5.567	257.155	3.908	54795.500
110.441	54.230	3.980	236.107	2.385	60578.900
93.238	50.389	6.147	219.417	3.492	66153.200
41.276	97.314	15.013	213.568	3.491	71596.100
99.259	57.330	8.238	202.454	5.369	77211.440
50.988	46.133	12.946	202.603	3.921	82065.990
82.146	99.716	18.510	175.121	12.825	86742.440
272.591	215.462	44.387	185.492	22.767	91305.250



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
45000.000	- 7.264	- 49.281
50000.000	6.776	- 51.749
55000.000	7.867	- 46.031
60000.000	16.887	- 52.077
65000.000	7.498	- 52.442
70000.000	- 33.523	- 58.707
75000.000	- 24.720	- 61.753
80000.000	- 14.392	- 50.314
85000.000	-101.784	- 91.414
90000.000	- 10.482	82.987

LEGEND

5 m/sec or less

10 m/sec

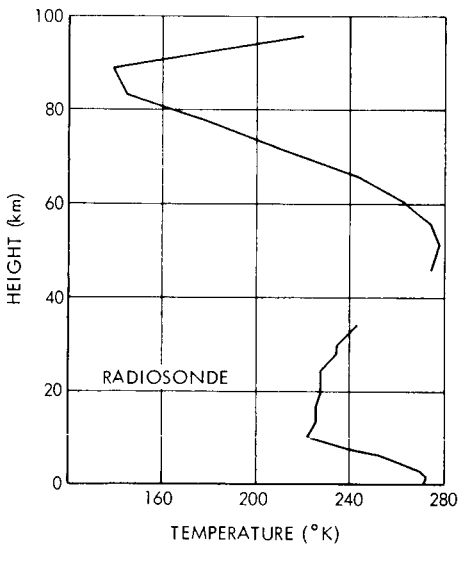
50 m/sec

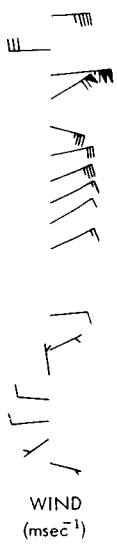
DIRECTION OF NORTH WIND

HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.3100000	05	.1177013	04	.1738673	01-	.2358422	03	.1413349	02	.1009835	02
.3200000	05	.1020694	04	.1489983	01-	.2386560	03	.1480562	02	.9921322	01
.3300000	05	.8866550	03	.1279234	01-	.2414699	03	.1555398	02	.1053604	02
.3400000	05	.7715085	03	.1100283	01-	.2442837	03	.1629402	02	.1128132	02
.3500000	05	.6724151	03	.9480410	02-	.2470976	03	.1702459	02	.1201657	02
.3600000	05	.5869871	03	.8182774	02-	.2499114	03	.1774547	02	.1274301	02
.3700000	05	.5132142	03	.7074701	02-	.2527253	03	.1845737	02	.1345846	02
.3800000	05	.4493994	03	.6126793	02-	.2555391	03	.1916046	02	.1416528	02
.3900000	05	.3941083	03	.5314474	02-	.2583529	03	.1985498	02	.1486535	02
.4000000	05	.3461258	03	.4617152	02-	.2611668	03	.2054129	02	.1555303	02
.4100000	05	.3044206	03	.4017538	02-	.2639807	03	.2121887	02	.1623478	02
.4200000	05	.2681157	03	.3501093	02-	.2667945	03	.2188908	02	.1690573	02
.4300000	05	.2364647	03	.3055562	02-	.2696083	03	.2255168	02	.1757137	02
.4400000	05	.2088303	03	.2670602	02-	.2724222	03	.2320666	02	.1822580	02
.4500000	05	.1845816	03	.2354253	02-	.2731451	03	.2379636	02	.1973008	02
.4600000	05	.1631409	03	.2089129	02-	.2720544	03	.2421264	02	.2187906	02
.4700000	05	.1441248	03	.1853044	02-	.2709636	03	.2440530	02	.2382522	02
.4800000	05	.1272665	03	.1642907	02-	.2698729	03	.2441010	02	.2477463	02
.4900000	05	.1123280	03	.1455947	02-	.2687821	03	.2434367	02	.2521047	02
.5000000	05	.9909373	02	.1290194	02-	.2675773	03	.2421028	02	.2563971	02
.5100000	05	.8735274	02	.1146640	02-	.2654039	03	.2397845	02	.2643517	02
.5200000	05	.7692606	02	.1018111	02-	.2632306	03	.2361910	02	.2710981	02
.5300000	05	.6767531	02	.9031347	03-	.2610573	03	.2314901	02	.2715016	02
.5400000	05	.5947565	02	.8003726	03-	.2588839	03	.2265120	02	.2676760	02
.5500000	05	.5221074	02	.7093845	03-	.2564108	03	.2212583	02	.2650640	02
.5600000	05	.4576344	02	.6307381	03-	.2527713	03	.2152641	02	.2675097	02
.5700000	05	.4003735	02	.5598791	03-	.2491318	03	.2081387	02	.2689630	02
.5800000	05	.3496037	02	.4961307	03-	.2454923	03	.1998492	02	.2693312	02
.5900000	05	.3046672	02	.4388667	03-	.2418528	03	.1903759	02	.2686209	02
.6000000	05	.2649647	02	.3875075	03-	.2382134	03	.1796868	02	.2666956	02
.6100000	05	.2299703	02	.3411515	03-	.2348457	03	.1678537	02	.2622150	02
.6200000	05	.1992215	02	.2993534	03-	.2318516	03	.1551951	02	.2509021	02
.6300000	05	.1722702	02	.2622424	03-	.2288576	03	.1427237	02	.2339658	02
.6400000	05	.1486868	02	.2293425	03-	.2258635	03	.1306641	02	.2175108	02
.6500000	05	.1280861	02	.2002209	03-	.2228695	03	.1190172	02	.2014456	02
.6600000	05	.1101223	02	.1744845	03-	.2198754	03	.1077961	02	.1859208	02
.6700000	05	.9454032	01	.1507336	03-	.2185069	03	.9764059	01	.1627095	02
.6800000	05	.8109762	01	.1299398	03-	.2174323	03	.8931463	01	.1399228	02
.6900000	05	.6951685	01	.1119375	03-	.2163578	03	.8297057	01	.1193755	02
.7000000	05	.5954697	01	.9636240	04-	.2152832	03	.7865761	01	.1008443	02
.7100000	05	.5096992	01	.8289627	04-	.2142087	03	.7644579	01	.8443364	01
.7200000	05	.4359045	01	.7137424	04-	.2127688	03	.7627289	01	.7179786	01
.7300000	05	.3723415	01	.6153899	04-	.2107897	03	.7787307	01	.6347407	01
.7400000	05	.3175903	01	.5298747	04-	.2088105	03	.8112909	01	.5655860	01
.7500000	05	.2704935	01	.4556159	04-	.2068313	03	.8614508	01	.5101721	01
.7600000	05	.2300372	01	.3912153	04-	.2048521	03	.9307297	01	.4715038	01
.7700000	05	.1953342	01	.3354381	04-	.2028729	03	.1020263	02	.4497868	01
.7800000	05	.1657158	01	.2851303	04-	.2024785	03	.1139062	02	.3683745	01
.7900000	05	.1405753	01	.2418371	04-	.2025090	03	.1298451	02	.2953213	01
.8000000	05	.1192588	01	.2051345	04-	.2025396	03	.1504805	02	.2618580	01
.8100000	05	.1011864	01	.1740223	04-	.2025701	03	.1738018	02	.4706586	01
.8200000	05	.8585705	00	.1476363	04-	.2026006	03	.1975987	02	.6828048	01
.8300000	05	.7268812	00	.1284708	04-	.1971139	03	.2191084	02	.1171374	02
.8400000	05	.6124308	00	.1115688	04-	.1912373	03	.2349388	02	.1666712	02
.8500000	05	.5132771	00	.9647001	05-	.1853607	03	.2443082	02	.2126965	02
.8600000	05	.4277596	00	.8302939	05-	.1794842	03	.2466402	02	.2547891	02
.8700000	05	.3547525	00	.7033890	05-	.1757066	03	.2428268	02	.2779597	02
.8800000	05	.2939902	00	.5754679	05-	.1779794	03	.2380619	02	.2567548	02
.8900000	05	.2442308	00	.4720389	05-	.1802523	03	.2362360	02	.2389473	02
.9000000	05	.2033770	00	.3881837	05-	.1825251	03	.2372368	02	.2245543	02
.9100000	05	.1697506	00	.3200164	05-	.1847980	03	.2392364	02	.2317800	02

FIGURE 21
7 AUGUST 1965, 1113 GMT, BARROW

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
52.802	13.264	1.693	274.265	.356	46428.050
44.232	10.892	3.860	278.256	.804	51567.800
52.127	15.826	5.694	274.748	1.202	55735.050
56.051	35.685	4.327	263.925	.830	60296.900
70.526	28.955	10.951	243.769	2.046	65991.690
109.241	34.260	15.979	207.583	2.195	72203.090
47.179	69.277	16.955	175.857	1.768	77947.790
78.525	113.495	24.360	145.760	2.252	82682.050
267.297	28.897	22.016	138.005	2.035	88758.990
81.660	44.909	35.516	218.991	5.389	95749.250





WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
50000.000	- 7.870	- 8.503
55000.000	- 9.379	- 11.629
60000.000	- 19.264	- 28.488
65000.000	- 11.442	- 27.699
70000.000	3.862	- 30.556
75000.000	- 17.133	- 41.337
80000.000	- 37.740	- 77.846
85000.000	- 15.089	- 58.514
90000.000	.312	16.826
95000.000	- 5.821	- 36.845

LEGEND

5 m/sec or less

10 m/sec

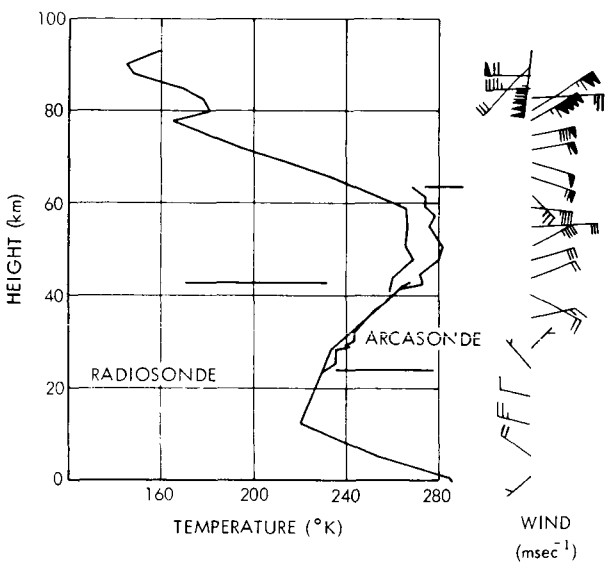
50 m/sec

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 (%)	
.3400000	05	.7587217	03	.1135795	01-	.2327237	03	.1436659	02	.1487302	02
.3500000	05	.6566439	03	.9690676	02-	.2360663	03	.1427982	02	.1450100	02
.3600000	05	.5694805	03	.8286990	02-	.2394088	03	.1423377	02	.1417891	02
.3700000	05	.4948851	03	.7102329	02-	.2427514	03	.1422675	02	.1390152	02
.3800000	05	.4309061	03	.6100139	02-	.2460940	03	.1425687	02	.1366862	02
.3900000	05	.3759156	03	.5250351	02-	.2494366	03	.1432226	02	.1347942	02
.4000000	05	.3285532	03	.4528169	02-	.2527791	03	.1442146	02	.1332606	02
.4100000	05	.2876784	03	.3913083	02-	.2561217	03	.1455221	02	.1321269	02
.4200000	05	.2523334	03	.3388093	02-	.2594643	03	.1471422	02	.1313254	02
.4300000	05	.2217117	03	.2939071	02-	.2628068	03	.1490569	02	.1308903	02
.4400000	05	.1951326	03	.2554244	02-	.2661494	03	.1512518	02	.1307469	02
.4500000	05	.1720205	03	.2223783	02-	.2694920	03	.1537177	02	.1309479	02
.4600000	05	.1518876	03	.1939461	02-	.2728346	03	.1564457	02	.1314747	02
.4700000	05	.1342754	03	.1702869	02-	.2747094	03	.1590355	02	.1379011	02
.4800000	05	.1187808	03	.1502122	02-	.2754857	03	.1611476	02	.1408232	02
.4900000	05	.1051143	03	.1325558	02-	.2762620	03	.1635838	02	.1399712	02
.5000000	05	.9305569	02	.1170203	02-	.2770383	03	.1664183	02	.1395492	02
.5100000	05	.8241158	02	.1033454	02-	.2778147	03	.1696555	02	.1395460	02
.5200000	05	.7300256	02	.9152098	03-	.2778917	03	.1731408	02	.1426270	02
.5300000	05	.6465827	02	.8130628	03-	.2770500	03	.1765890	02	.1446916	02
.5400000	05	.5724875	02	.7220836	03-	.2762083	03	.1805887	02	.1436775	02
.5500000	05	.5067140	02	.6410765	03-	.2753666	03	.1852516	02	.1432485	02
.5600000	05	.4483068	02	.5697625	03-	.2741192	03	.1904941	02	.1449753	02
.5700000	05	.3963250	02	.5080954	03-	.2717467	03	.1959222	02	.1515954	02
.5800000	05	.3500056	02	.4526652	03-	.2693742	03	.2012289	02	.1581263	02
.5900000	05	.3087721	02	.4028859	03-	.2670017	03	.2064144	02	.1646122	02
.6000000	05	.2721023	02	.3582223	03-	.2646292	03	.2114651	02	.1709672	02
.6100000	05	.2394764	02	.3191207	03-	.2614363	03	.2161284	02	.1807040	02
.6200000	05	.2104220	02	.2842518	03-	.2578969	03	.2201421	02	.1877976	02
.6300000	05	.1845700	02	.2527987	03-	.2543575	03	.2243127	02	.1895290	02
.6400000	05	.1616037	02	.2244661	03-	.2508181	03	.2288883	02	.1916233	02
.6500000	05	.1412341	02	.1989807	03-	.2472787	03	.2338841	02	.1940039	02
.6600000	05	.1231970	02	.1761030	03-	.2437202	03	.2393229	02	.1969209	02
.6700000	05	.1071819	02	.1569622	03-	.2378945	03	.2444130	02	.2107548	02
.6800000	05	.9293140	01	.1395095	03-	.2320689	03	.2482676	02	.2238749	02
.6900000	05	.8028751	01	.1236319	03-	.2262432	03	.2507616	02	.2363195	02
.7000000	05	.6910297	01	.1092217	03-	.2204175	03	.2517588	02	.2477487	02
.7100000	05	.5924080	01	.9617584	04-	.2145918	03	.2511204	02	.2581545	02
.7200000	05	.5057382	01	.8439640	04-	.2087661	03	.2486961	02	.2673465	02
.7300000	05	.4298825	01	.7370942	04-	.2031819	03	.2444456	02	.2737951	02
.7400000	05	.3637815	01	.6411827	04-	.1976592	03	.2383715	02	.2785044	02
.7500000	05	.3064077	01	.5555817	04-	.1921365	03	.2303554	02	.2816188	02
.7600000	05	.2568079	01	.4794273	04-	.1866138	03	.2202799	02	.2832637	02
.7700000	05	.2141103	01	.4119064	04-	.1810911	03	.2079565	02	.2831976	02
.7800000	05	.1775153	01	.3523346	04-	.1755249	03	.1932197	02	.2812168	02
.7900000	05	.1462318	01	.3011498	04-	.1691676	03	.1753075	02	.2820341	02
.8000000	05	.1195775	01	.2558735	04-	.1628104	03	.1535545	02	.2800074	02
.8100000	05	.9700716	00	.2160118	04-	.1564532	03	.1253210	02	.2997101	02
.8200000	05	.7802228	00	.1810955	04-	.1500960	03	.8831349	01	.3103874	02
.8300000	05	.6224669	00	.1491924	04-	.1453543	03	.4398731	01	.2973250	02
.8400000	05	.4943254	00	.1195290	04-	.1440781	03	.3215264-	00	.2499108	02
.8500000	05	.3917871	00	.9558160	05-	.1428019	03	.5021305-	01	.2015287	02
.8600000	05	.3098935	00	.7628433	05-	.1415257	03	.9686264-	01	.1528538	02
.8700000	05	.2446157	00	.6076327	05-	.1402495	03	.1430223-	02	.1039839	02
.8800000	05	.1926855	00	.4830318	05-	.1389733	03	.1885560-	02	.5488520	01
.8900000	05	.1518617	00	.3757620	05-	.1407970	03	.2313137-	02	.1374787-	01
.9000000	05	.1209921	00	.2766176	05-	.1523826	03	.2639486-	02	.1273892-	02
.9100000	05	.9802339	01-	.2082706	05-	.1639682	03	.2843964-	02	.1983423-	02
.9200000	05	.8056998	01-	.1598899	05-	.1755539	03	.2962705-	02	.2518020-	02
.9300000	05	.6706341	01-	.1248471	05-	.1871395	03	.3012553-	02	.2918488-	02
.9400000	05	.5644291	01-	.9894977	06-	.1987251	03	.3004361-	02	.3217973-	02
.9500000	05	.4797323	01-	.7946862	06-	.2103107	03	.2946358-	02	.3437768-	02

FIGURE 22
7 AUGUST 1965, 1200 GMT, CHURCHILL

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
125.348	17.827	8.945	258.412	2.961	40501.040
57.570	20.060	11.698	260.848	4.552	44132.190
65.701	28.747	13.427	268.743	4.869	47687.100
47.716	45.005	12.725	265.601	3.486	51144.300
82.518	31.397	12.852	266.506	2.574	55052.500
96.958	42.953	141.834	265.421	3.562	58866.300
144.864	25.893	9.867	251.975	1.743	62037.100
128.332	69.335	10.942	232.257	3.746	65619.440
122.400	49.821	14.524	214.822	.998	69097.350
80.802	59.505	26.584	194.208	2.638	71976.350
79.270	88.477	10.767	180.167	.829	74770.600
38.863	214.065	15.276	165.191	2.443	77503.850
39.936	117.325	27.393	181.153	1.498	80144.290
86.992	23.922	58.830	177.861	2.648	82659.240
267.599	45.208	24.611	169.384	1.520	85496.550
270.492	69.267	72.066	148.317	2.343	88237.050
225.754	31.299	50.725	145.153	3.695	90469.250
195.484	195.244	76.305	159.371	6.683	92561.940



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
45000.000	- 11.019	- 19.194
50000.000	- 24.173	- 30.947
55000.000	- 4.440	- 31.159
60000.000	10.914	- 32.720
65000.000	39.228	- 47.561
70000.000	15.344	- 47.293
75000.000	- 29.080	- 90.907
80000.000	- 94.154	- 78.539
85000.000	1.343	33.083
90000.000	17.123	32.268

LEGEND

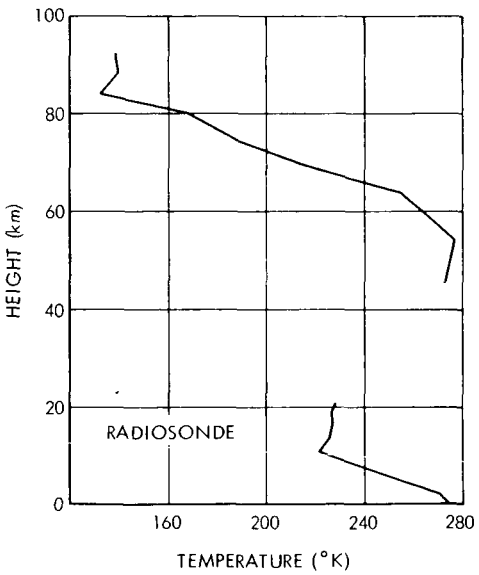
5 m/sec or less — 50 m/sec

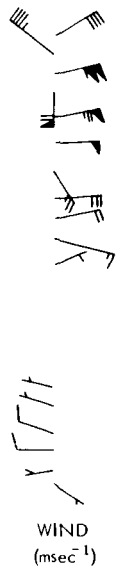
10 m/sec — DIRECTION OF NORTH WIND

HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.3900000	05	.3919811	03	.5292236	02-	.2580383	03	.1920808	02	.1438469	02
.4000000	05	.3438994	03	.4638602	02-	.2582869	03	.1976590	02	.1608986	02
.4100000	05	.3017812	03	.4063276	02-	.2587462	03	.2016789	02	.1755805	02
.4200000	05	.2649074	03	.3557571	02-	.2594172	03	.2043052	02	.1879159	02
.4300000	05	.2326267	03	.3115998	02-	.2600881	03	.2056259	02	.1989682	02
.4400000	05	.2043565	03	.2730280	02-	.2607590	03	.2056715	02	.2086768	02
.4500000	05	.1796481	03	.2381753	02-	.2627750	03	.2048750	02	.2112865	02
.4600000	05	.1580968	03	.2078463	02-	.2649958	03	.2037218	02	.2125682	02
.4700000	05	.1392849	03	.1815929	02-	.2672166	03	.2022763	02	.2134505	02
.4800000	05	.1228169	03	.1593821	02-	.2684582	03	.2006029	02	.2104661	02
.4900000	05	.1083084	03	.1410314	02-	.2675496	03	.1989409	02	.2128606	02
.5000000	05	.9547680	02	.1247467	02-	.2666409	03	.1967660	02	.2147896	02
.5100000	05	.8413247	02	.1103005	02-	.2657323	03	.1940798	02	.2162367	02
.5200000	05	.7412587	02	.9715702	03-	.2657992	03	.1911923	02	.2129923	02
.5300000	05	.6531514	02	.8553428	03-	.2660307	03	.1885419	02	.2042165	02
.5400000	05	.5756062	02	.7531372	03-	.2662622	03	.1870199	02	.1928620	02
.5500000	05	.5073427	02	.6632431	03-	.2664936	03	.1867222	02	.1827788	02
.5600000	05	.4471855	02	.5851653	03-	.2662363	03	.1875167	02	.1759281	02
.5700000	05	.3941270	02	.5162868	03-	.2659520	03	.1892895	02	.1701612	02
.5800000	05	.3473297	02	.4554717	03-	.2656677	03	.1920450	02	.1653065	02
.5900000	05	.3060222	02	.4025353	03-	.2648544	03	.1956703	02	.1635987	02
.6000000	05	.2693094	02	.3600081	03-	.2606138	03	.1990304	02	.1768049	02
.6100000	05	.2365141	02	.3213976	03-	.2563732	03	.2010852	02	.1891281	02
.6200000	05	.2072716	02	.2863973	03-	.2521326	03	.2018739	02	.1967627	02
.6300000	05	.1811862	02	.2558927	03-	.2466752	03	.2018669	02	.2040874	02
.6400000	05	.1579125	02	.2281128	03-	.2411710	03	.2008191	02	.2109828	02
.6500000	05	.1371981	02	.2028188	03-	.2356667	03	.1986244	02	.2170345	02
.6600000	05	.1188177	02	.1797018	03-	.2303494	03	.1952689	02	.2213809	02
.6700000	05	.1025695	02	.1585788	03-	.2253364	03	.1908614	02	.2232242	02
.6800000	05	.8825485	01	.1395520	03-	.2203234	03	.1854515	02	.2242481	02
.6900000	05	.7567931	01	.1224533	03-	.2153104	03	.1789727	02	.2245329	02
.7000000	05	.6461727	01	.1080425	03-	.2083590	03	.1705032	02	.2342775	02
.7100000	05	.5487526	01	.9501883	04-	.2011986	03	.1589235	02	.2430186	02
.7200000	05	.4633026	01	.8316152	04-	.1940888	03	.1439202	02	.2488027	02
.7300000	05	.3890917	01	.7169714	04-	.1890638	03	.1263623	02	.2390202	02
.7400000	05	.3252528	01	.6157011	04-	.1840387	03	.1072134	02	.2276947	02
.7500000	05	.2705434	01	.5268192	04-	.1789095	03	.8634516	01	.2152692	02
.7600000	05	.2238046	01	.4495746	04-	.1734305	03	.6345730	01	.2033581	02
.7700000	05	.1840276	01	.3817311	04-	.1679514	03	.3823763	01	.1891937	02
.7800000	05	.1508718	01	.3125113	04-	.1681901	03	.1412771	01	.1364049	02
.7900000	05	.1241458	01	.2482300	04-	.1742352	03	.2203676-	00	.5674766	01
.8000000	05	.1028418	01	.1987374	04-	.1802803	03	.7892814-	00	.5815762-	00
.8100000	05	.8545820	00	.1653714	04-	.1800327	03	.8651538-	00	.4985476-	00
.8200000	05	.7096027	00	.1383217	04-	.1787241	03	.1019276-	01	.8808015	01-
.8300000	05	.5882708	00	.1158903	04-	.1768432	03	.1336576-	01	.7741856	00
.8400000	05	.4864444	00	.9747732	05-	.1738553	03	.1910697-	01	.1931747	01
.8500000	05	.4009443	00	.8174915	05-	.1708673	03	.2801368-	01	.2764486	01
.8600000	05	.3289083	00	.6923081	05-	.1655135	03	.4144706-	01	.4625688	01
.8700000	05	.2676793	00	.5908721	05-	.1578264	03	.6222196-	01	.7353216	01
.8800000	05	.2156335	00	.5003574	05-	.1501392	03	.9191643-	01	.9272218	01
.8900000	05	.1723933	00	.4079112	05-	.1472357	03	.1273874-	02	.7063306	01
.9000000	05	.1373804	00	.3282241	05-	.1458184	03	.1642514-	02	.3540717	01
.9100000	05	.1096142	00	.2567087	05-	.1487594	03	.1997796-	02	.1189861-	01
.9200000	05	.8809729	01-	.1973063	05-	.1555535	03	.2305241-	02	.7671356-	01

FIGURE 23
7 AUGUST 1965, 1939 GMT, BARROW

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
55.882	5.775	5.060	273.138	1.594	45001.100
108.556	16.354	15.082	275.876	3.580	50088.400
66.427	21.557	10.393	277.264	3.149	54085.950
78.863	32.229	4.897	268.789	1.369	58641.200
156.771	26.306	7.826	255.873	1.651	64342.600
87.203	51.018	8.425	212.081	1.834	70387.600
68.046	73.233	9.875	187.377	1.834	75814.850
182.944	69.054	18.258	168.001	2.529	80403.250
70.993	105.331	17.715	132.289	2.473	84329.250
331.630	43.984	22.652	139.986	3.565	88197.700
49.503	40.413	25.921	138.548	3.898	92672.490





HEIGHT meters	WIND COMPONENTS m/sec SOUTH component (+)	WEST component (+)
45000.000	- 3.247	- 4.781
50000.000	5.058	- 15.318
55000.000	- 8.140	- 22.138
60000.000	1.019	- 26.559
65000.000	21.274	- 14.789
70000.000	- .780	- 48.355
75000.000	- 23.642	- 65.375
80000.000	60.496	- 2.735
85000.000	- 35.067	- 78.696
90000.000	- 33.727	.141

LEGEND

5 m/sec or less

10 m/sec

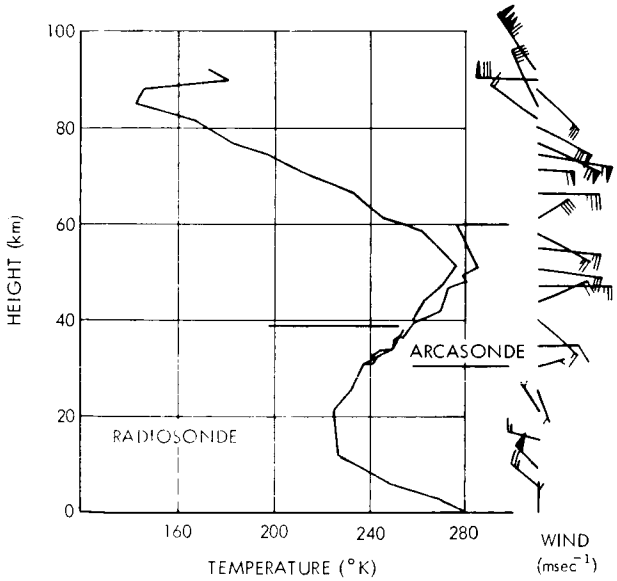
50 m/sec

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 (%)	
.2600000	05	.2451742	04	.3599556	01-	.2372925	03	.1203510	02	.5075059	01
.2700000	05	.2126084	04	.3096816	01-	.2391790	03	.1309138	02	.5700610	01
.2800000	05	.1845828	04	.2667561	01-	.2410655	03	.1420863	02	.6379047	01
.2900000	05	.1604353	04	.2300581	01-	.2429520	03	.1538624	02	.7113400	01
.3000000	05	.1396041	04	.1986445	01-	.2448385	03	.1662544	02	.7900357	01
.3100000	05	.1216127	04	.1717211	01-	.2467251	03	.1792632	02	.8739322	01
.3200000	05	.1060559	04	.1486180	01-	.2486116	03	.1928948	02	.9640744	01
.3300000	05	.9258871	03	.1287691	01-	.2504981	03	.2066693	02	.1126685	02
.3400000	05	.8091747	03	.1116960	01-	.2523846	03	.2197167	02	.1296803	02
.3500000	05	.7079140	03	.9699327	02-	.2542711	03	.2320268	02	.1460321	02
.3600000	05	.6199628	03	.8431726	02-	.2561576	03	.2436015	02	.1617309	02
.3700000	05	.5434897	03	.7337624	02-	.2580441	03	.2544539	02	.1767499	02
.3800000	05	.4769263	03	.6392223	02-	.2599306	03	.2645935	02	.1911125	02
.3900000	05	.4189276	03	.5574412	02-	.2618171	03	.2740295	02	.2048357	02
.4000000	05	.3683398	03	.4866209	02-	.2637036	03	.2827750	02	.2178615	02
.4100000	05	.3241709	03	.4252264	02-	.2655901	03	.2908335	02	.2302582	02
.4200000	05	.2855677	03	.3719473	02-	.2674766	03	.2982300	02	.2419772	02
.4300000	05	.2517957	03	.3256629	02-	.2693631	03	.3049723	02	.2530799	02
.4400000	05	.2222214	03	.2854137	02-	.2712497	03	.3110716	02	.2635074	02
.4500000	05	.1962982	03	.2503774	02-	.2731362	03	.3165449	02	.2733429	02
.4600000	05	.1735013	03	.2208638	02-	.2736758	03	.3210088	02	.2885118	02
.4700000	05	.1533951	03	.1948859	02-	.2742139	03	.3240726	02	.3022777	02
.4800000	05	.1356569	03	.1720122	02-	.2747520	03	.3261217	02	.3063891	02
.4900000	05	.1200034	03	.1518662	02-	.2752901	03	.3284012	02	.3060388	02
.5000000	05	.1061855	03	.1341173	02-	.2758282	03	.3309956	02	.3060404	02
.5100000	05	.9398113	02	.1185461	02-	.2761922	03	.3338602	02	.3071575	02
.5200000	05	.8319562	02	.1048097	02-	.2765394	03	.3369418	02	.3085350	02
.5300000	05	.7366203	02	.9268295	03-	.2768866	03	.3404306	02	.3048609	02
.5400000	05	.6523332	02	.8197499	03-	.2772338	03	.3452470	02	.2987671	02
.5500000	05	.5775424	02	.7301650	03-	.2755630	03	.3509258	02	.3021224	02
.5600000	05	.5109460	02	.6503608	03-	.2737025	03	.3568347	02	.3069428	02
.5700000	05	.4516684	02	.5788438	03-	.2718420	03	.3629226	02	.3119463	02
.5800000	05	.3989453	02	.5147989	03-	.2699814	03	.3691912	02	.3170930	02
.5900000	05	.3520762	02	.4577196	03-	.2679756	03	.3756093	02	.3231185	02
.6000000	05	.3104148	02	.4069979	03-	.2657102	03	.3820412	02	.3304064	02
.6100000	05	.2733990	02	.3615474	03-	.2634449	03	.3883970	02	.3376773	02
.6200000	05	.2405429	02	.3208570	03-	.2611795	03	.3947992	02	.3407590	02
.6300000	05	.2114078	02	.2844615	03-	.2589141	03	.4023364	02	.3385161	02
.6400000	05	.1855985	02	.2519378	03-	.2566488	03	.4113522	02	.3374624	02
.6500000	05	.1626203	02	.2256152	03-	.2511103	03	.4207234	02	.3538267	02
.6600000	05	.1420067	02	.2028691	03-	.2438660	03	.4285432	02	.3788428	02
.6700000	05	.1235057	02	.1818405	03-	.2366217	03	.4339366	02	.4026573	02
.6800000	05	.1069545	02	.1624451	03-	.2293774	03	.4366277	02	.4250818	02
.6900000	05	.9219888	01	.1446007	03-	.2221331	03	.4363233	02	.4460075	02
.7000000	05	.7909246	01	.1282270	03-	.2148888	03	.4327126	02	.4648655	02
.7100000	05	.6753867	01	.1124230	03-	.2092934	03	.4263650	02	.4706966	02
.7200000	05	.5745291	01	.9776067	04-	.2047415	03	.4185448	02	.4680323	02
.7300000	05	.4869838	01	.8474828	04-	.2001897	03	.4097452	02	.4645609	02
.7400000	05	.4112334	01	.7323077	04-	.1956379	03	.3999053	02	.4602056	02
.7500000	05	.3459050	01	.6306466	04-	.1910860	03	.3889536	02	.4547788	02
.7600000	05	.2897679	01	.5410137	04-	.1865951	03	.3768968	02	.4481095	02
.7700000	05	.2417420	01	.4617975	04-	.1823722	03	.3638475	02	.4386218	02
.7800000	05	.2008329	01	.3927436	04-	.1781493	03	.3499559	02	.4281585	02
.7900000	05	.1661161	01	.3327396	04-	.1739264	03	.3351239	02	.4165160	02
.8000000	05	.1367693	01	.2807735	04-	.1697035	03	.3194030	02	.4045699	02
.8100000	05	.1118662	01	.2397233	04-	.1625724	03	.2976918	02	.4423784	02
.8200000	05	.9056170	00	.2055709	04-	.1534762	03	.2632227	02	.4874885	02
.8300000	05	.7237903	00	.1746481	04-	.1443800	03	.2139245	02	.5186792	02
.8400000	05	.5701343	00	.1468214	04-	.1352838	03	.1496498	02	.5357075	02
.8500000	05	.4449036	00	.1159956	04-	.1336234	03	.7855415	01	.4581469	02
.8600000	05	.3473117	00	.8922285	05-	.1356131	03	.1218705	01	.3483883	02
.8700000	05	.2721273	00	.6889748	05-	.1376027	03	.4663922-	01	.2517711	02
.8800000	05	.2139824	00	.5340412	05-	.1395923	03	.9886952-	01	.1662836	02
.8900000	05	.1685825	00	.4203269	05-	.1397280	03	.1466770-	02	.1032204	02
.9000000	05	.1328029	00	.3318806	05-	.1394068	03	.1920982-	02	.4694197	01
.9100000	05	.1045673	00	.2619220	05-	.1390856	03	.2366234-	02	.8108036	00
.9200000	05	.8229557	01-	.2066125	05-	.1387644	03	.2811986-	02	.3316560-	01

FIGURE 24
7 AUGUST 1965, 1945 GMT, CHURCHILL

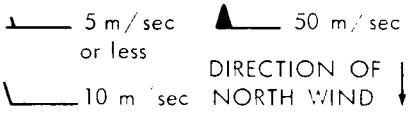
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
121.428	13.099	9.892	258.498	3.057	40055.850
73.254	21.450	9.862	262.736	2.510	43710.450
87.392	24.717	8.137	269.647	2.140	47268.850
113.619	28.910	6.151	276.697	1.480	50750.150
106.336	24.575	10.745	270.008	1.894	54689.040
128.138	24.344	16.112	262.553	3.012	58515.540
54.199	41.247	13.894	244.850	2.047	61691.500
89.160	36.172	5.121	232.933	.603	66744.100
98.821	60.905	22.061	208.672	1.476	71650.100
104.740	55.030	26.721	198.438	1.684	74445.350
141.066	71.221	20.101	183.408	1.242	77174.300
144.192	77.952	14.551	173.557	.822	79814.690
304.465	17.257	5.960	166.814	.318	82343.490
335.526	43.527	8.263	143.081	.253	85178.550
132.096	35.277	20.849	146.333	.581	87900.990
273.464	78.105	17.776	181.219	.771	90129.240
301.668	174.825	59.890	173.147	5.142	92233.850



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.000	7.029	- 11.034
45000.000	- 4.348	- 22.045
50000.000	8.845	- 26.101
55000.000	7.572	- 23.222
60000.000	- 3.271	- 25.834
65000.000	- 8.676	- 35.231
70000.000	6.069	- 52.099
75000.000	22.416	- 51.499
80000.000	57.869	- 41.223
85000.000	- 37.736	17.793
90000.000	- 3.074	71.922

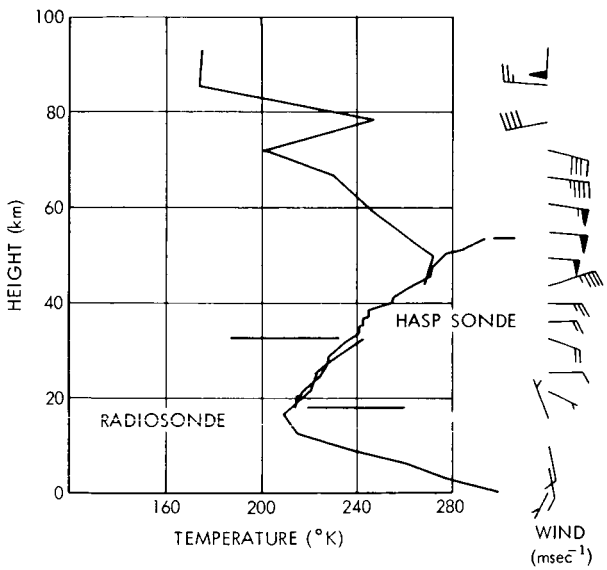
LEGEND



HEIGHT meters		PRESSURE nt/sq meter		DENSITY kg/cu meter		TEMPERATURE degrees Kelvin		PRESSURE dev. from std atmosphere (%)		DENSITY dev. from std atmosphere (%)	
.3900000	05	.3876852	03	.5261841	02-	.2566845	03	.1790159	02	.1372775	02
.4000000	05	.3400219	03	.4584259	02-	.2584020	03	.1841555	02	.1472982	02
.4100000	05	.2984506	03	.4005325	02-	.2595929	03	.1884163	02	.1588142	02
.4200000	05	.2621266	03	.3502198	02-	.2607525	03	.1916634	02	.1694264	02
.4300000	05	.2303656	03	.3064220	02-	.2619122	03	.1939071	02	.1790450	02
.4400000	05	.2025877	03	.2680543	02-	.2632985	03	.1952358	02	.1866588	02
.4500000	05	.1783106	03	.2342046	02-	.2652405	03	.1959048	02	.1910931	02
.4600000	05	.1570952	03	.2048391	02-	.2671826	03	.1960956	02	.1950245	02
.4700000	05	.1385364	03	.1793365	02-	.2691246	03	.1958158	02	.1983731	02
.4800000	05	.1222871	03	.1571323	02-	.2711274	03	.1954245	02	.1933800	02
.4900000	05	.1080476	03	.1378061	02-	.2731524	03	.1960544	02	.1851228	02
.5000000	05	.9555719	02	.1209787	02-	.2751774	03	.1977736	02	.1780959	02
.5100000	05	.8457273	02	.1066477	02-	.2762722	03	.2003284	02	.1759584	02
.5200000	05	.7484363	02	.9496272	03-	.2745742	03	.2027264	02	.1855967	02
.5300000	05	.6618609	02	.8450045	03-	.2728763	03	.2043907	02	.1896616	02
.5400000	05	.5848737	02	.7513897	03-	.2711783	03	.2061316	02	.1900942	02
.5500000	05	.5164511	02	.6678605	03-	.2694024	03	.2080275	02	.1910131	02
.5600000	05	.4556574	02	.5935365	03-	.2674540	03	.2100140	02	.1927507	02
.5700000	05	.4016677	02	.5270496	03-	.2655055	03	.2120441	02	.1945551	02
.5800000	05	.3537604	02	.4676197	03-	.2635570	03	.2141153	02	.1963866	02
.5900000	05	.3111518	02	.4171613	03-	.2598522	03	.2157123	02	.2058778	02
.6000000	05	.2730524	02	.3741060	03-	.2542784	03	.2156950	02	.2228883	02
.6100000	05	.2389353	02	.3346992	03-	.2487046	03	.2133807	02	.2383426	02
.6200000	05	.2085159	02	.2975701	03-	.2441226	03	.2090893	02	.2434505	02
.6300000	05	.1816239	02	.2617217	03-	.2417639	03	.2047702	02	.2315155	02
.6400000	05	.1579930	02	.2299123	03-	.2394052	03	.2014310	02	.2205359	02
.6500000	05	.1372531	02	.2017189	03-	.2370466	03	.1991045	02	.2104348	02
.6600000	05	.1190733	02	.1767592	03-	.2346879	03	.1978403	02	.2013813	02
.6700000	05	.1031369	02	.1550985	03-	.2316673	03	.1974496	02	.1963787	02
.6800000	05	.8911435	01	.1369341	03-	.2267222	03	.1969965	02	.2012820	02
.6900000	05	.7675410	01	.1205710	03-	.2217772	03	.1957163	02	.2057102	02
.7000000	05	.6588913	01	.1058640	03-	.2168321	03	.1935421	02	.2093908	02
.7100000	05	.5636606	01	.9267690	04-	.2118870	03	.1904082	02	.2123820	02
.7200000	05	.4805260	01	.8072068	04-	.2073912	03	.1864460	02	.2121498	02
.7300000	05	.4083795	01	.6983406	04-	.2037299	03	.1821976	02	.2068237	02
.7400000	05	.3460604	01	.6026026	04-	.2000687	03	.1780460	02	.2015765	02
.7500000	05	.2922426	01	.5210919	04-	.1953833	03	.1734765	02	.2020574	02
.7600000	05	.2457053	01	.4508205	04-	.1898755	03	.1675233	02	.2066932	02
.7700000	05	.2055379	01	.3883874	04-	.1843678	03	.1595934	02	.2099297	02
.7800000	05	.1711460	01	.3306463	04-	.1803272	03	.1504069	02	.2023503	02
.7900000	05	.1419501	01	.2800348	04-	.1765964	03	.1408948	02	.1921449	02
.8000000	05	.1172851	01	.2361007	04-	.1730628	03	.1314407	02	.1810944	02
.8100000	05	.9657866	00	.1974600	04-	.1703963	03	.1203502	02	.1880869	02
.8200000	05	.7928943	00	.1646885	04-	.1677298	03	.1059886	02	.1916679	02
.8300000	05	.6474464	00	.1398231	04-	.1613181	03	.8588230	01	.2158531	02
.8400000	05	.5236858	00	.1192856	04-	.1529469	03	.5598842	01	.2473662	02
.8500000	05	.4185821	00	.1008656	04-	.1445758	03	.1474445	01	.2679524	02
.8600000	05	.3323169	00	.8036376	05-	.1440623	03	.3151292-	01	.2145045	02
.8700000	05	.2639926	00	.6331602	05-	.1452567	03	.7513800-	01	.1503639	02
.8800000	05	.2103595	00	.4955662	05-	.1478831	03	.1141266-	02	.8225882	01
.8900000	05	.1698539	00	.3618355	05-	.1635394	03	.1402415-	02	.5030037-	01
.9000000	05	.1398665	00	.2719219	05-	.1791957	03	.1491271-	02	.1422023-	02
.9100000	05	.1160968	00	.2273806	05-	.1778792	03	.1524542-	02	.1247860-	02
.9200000	05	.9610930	01-	.1923825	05-	.1740436	03	.1605441-	02	.9975438-	01

FIGURE 25
7 AUGUST 1965, 2006 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
68.198	43.055	.321	267.791	.137	43979.450
95.357	52.070	.459	272.495	.198	49628.550
96.165	49.369	.655	257.338	.247	54772.250
100.918	53.742	.634	242.429	.210	60908.350
98.259	43.511	1.237	230.184	.385	66635.600
110.092	38.338	.844	200.118	.209	72094.440
292.236	37.438	24.533	247.242	4.480	77952.390
250.377	23.484	23.751	174.222	9.758	85500.240
186.614	51.683	82.496	175.233	11.454	92982.050



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
45000.000	- 12.223	- 42.119
50000.000	4.893	- 51.643
55000.000	5.483	- 49.220
60000.000	9.457	- 52.224
65000.000	7.372	- 45.833
70000.000	10.515	- 38.712
75000.000	- .389	- .958
80000.000	- 8.185	31.254
85000.000	6.425	22.951
90000.000	34.020	12.397

LEGEND

5 m/sec or less

10 m/sec

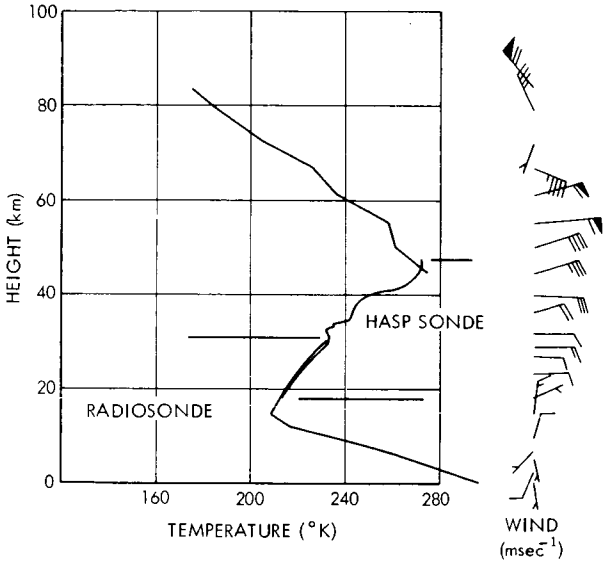
50 m/sec

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 (%)	
.3400000	05	.7259417	03	.1046353	01-	.2417029	03	.9425464	01	.5826874	01
.3500000	05	.6317421	03	.9008328	02-	.2443170	03	.9946015	01	.6438653	01
.3600000	05	.5506036	03	.7768214	02-	.2469312	03	.1044719	02	.7031165	01
.3700000	05	.4806017	03	.6709559	02-	.2495454	03	.1092993	02	.7602589	01
.3800000	05	.4201121	03	.5804275	02-	.2521595	03	.1139481	02	.8155563	01
.3900000	05	.3677611	03	.5028858	02-	.2547737	03	.1184234	02	.8692126	01
.4000000	05	.3223845	03	.4363594	02-	.2573878	03	.1227317	02	.9207255	01
.4100000	05	.2829946	03	.3791924	02-	.2600020	03	.1268713	02	.9707321	01
.4200000	05	.2487516	03	.3299914	02-	.2626161	03	.1308586	02	.1018812	02
.4300000	05	.2189403	03	.2875813	02-	.2652303	03	.1346936	02	.1065501	02
.4400000	05	.1929489	03	.2510020	02-	.2678078	03	.1383688	02	.1111694	02
.4500000	05	.1701867	03	.2207051	02-	.2686406	03	.1414193	02	.1224384	02
.4600000	05	.1501741	03	.1941499	02-	.2694733	03	.1433993	02	.1326642	02
.4700000	05	.1325710	03	.1708641	02-	.2703061	03	.1443232	02	.1417581	02
.4800000	05	.1170807	03	.1504359	02-	.2711388	03	.1445283	02	.1425227	02
.4900000	05	.1034438	03	.1325071	02-	.2719715	03	.1450913	02	.1395517	02
.5000000	05	.9140389	02	.1173309	02-	.2714004	03	.1457136	02	.1425738	02
.5100000	05	.8070344	02	.1047324	02-	.2684536	03	.1454121	02	.1548394	02
.5200000	05	.7116061	02	.9337317	03-	.2655068	03	.1435409	02	.1657514	02
.5300000	05	.6266058	02	.8314264	03-	.2625601	03	.1402369	02	.1705453	02
.5400000	05	.5509892	02	.7393912	03-	.2596133	03	.1362546	02	.1710902	02
.5500000	05	.4838208	02	.6564085	03-	.2567843	03	.1317021	02	.1705904	02
.5600000	05	.4242901	02	.5811408	03-	.2543546	03	.1267171	02	.1678407	02
.5700000	05	.3716310	02	.5139238	03-	.2519250	03	.1214072	02	.1648056	02
.5800000	05	.3251032	02	.4539593	03-	.2494953	03	.1157630	02	.1614372	02
.5900000	05	.2840406	02	.4005217	03-	.2470657	03	.1097849	02	.1577780	02
.6000000	05	.2478440	02	.3529523	03-	.2446360	03	.1034609	02	.1537406	02
.6100000	05	.2159768	02	.3106217	03-	.2422331	03	.9679127	01	.1492591	02
.6200000	05	.1879715	02	.2727514	03-	.2400951	03	.8996182	01	.1397409	02
.6300000	05	.1634017	02	.2392303	03-	.2379570	03	.8389618	01	.1256836	02
.6400000	05	.1418701	02	.2095899	03-	.2358190	03	.7882752	01	.1126502	02
.6500000	05	.1230228	02	.1834090	03-	.2336809	03	.7478274	01	.1005642	02
.6600000	05	.1065444	02	.1603088	03-	.2315429	03	.7180348	01	.8957285	01
.6700000	05	.9211854	01	.1406480	03-	.2281769	03	.6952293	01	.8491217	01
.6800000	05	.7942143	01	.1242613	03-	.2226690	03	.6679978	01	.9010748	01
.6900000	05	.6822375	01	.1094489	03-	.2171612	03	.6282588	01	.9448950	01
.7000000	05	.5837928	01	.9609301	04-	.2116533	03	.5750564	01	.9776680	01
.7100000	05	.4975295	01	.8408203	04-	.2061455	03	.5074422	01	.9994547	01
.7200000	05	.4222021	01	.7331050	04-	.2006376	03	.4244091	01	.1008740	02
.7300000	05	.3584772	01	.6021518	04-	.2074024	03	.3773800	01	.4059704	01
.7400000	05	.3061334	01	.4950265	04-	.2154470	03	.4212780	01	.1292795-	01
.7500000	05	.2629623	01	.4099119	04-	.2234916	03	.5590400	01	.5441317-	01
.7600000	05	.2271072	01	.3417198	04-	.2315362	03	.7915044	01	.8533242-	01
.7700000	05	.1971342	01	.2866606	04-	.2395808	03	.1121815	02	.1069761-	02
.7800000	05	.1718856	01	.2426525	04-	.2467817	03	.1553784	02	.1176271-	02
.7900000	05	.1497710	01	.2200599	04-	.2371074	03	.2037538	02	.6317608-	01
.8000000	05	.1297608	01	.1987688	04-	.2274330	03	.2517925	02	.5658796-	00
.8100000	05	.1117304	01	.1787534	04-	.2177587	03	.2961168	02	.7553173	01
.8200000	05	.9555809	00	.1599876	04-	.2080843	03	.3329162	02	.1576525	02
.8300000	05	.8112451	00	.1424448	04-	.1984100	03	.3606017	02	.2386509	02
.8400000	05	.6831314	00	.1260981	04-	.1887357	03	.3775033	02	.3186038	02
.8500000	05	.5701011	00	.1109196	04-	.1790613	03	.3820633	02	.3943381	02
.8600000	05	.4723110	00	.9440926	05-	.1742894	03	.3764784	02	.4267684	02
.8700000	05	.3903451	00	.7796478	05-	.1744246	03	.3675206	02	.4165112	02
.8800000	05	.3226701	00	.6439794	05-	.1745598	03	.3588400	02	.4063759	02
.8900000	05	.2667829	00	.5320286	05-	.1746950	03	.3503891	02	.3964005	02
.9000000	05	.2206223	00	.4396332	05-	.1748302	03	.3421482	02	.3868556	02
.9100000	05	.1824862	00	.3633586	05-	.1749654	03	.3322106	02	.3986089	02
.9200000	05	.1537086	00	.3058219	05-	.1751006	03	.3425504	02	.4310804	02

FIGURE 26
8 AUGUST 1965, 0340 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
71.879	34.919	.237	274.603	.134	44482.850
72.582	38.568	.396	260.843	.202	50136.100
82.399	59.630	.619	257.761	.252	55311.850
71.154	62.247	.506	235.885	.179	61404.250
114.017	46.338	.895	225.905	.565	66978.640
197.708	6.092	1.394	203.807	.262	72442.550
343.657	33.182	9.501	187.030	1.545	78303.790
322.358	69.747	7.639	175.218	1.255	83276.550



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
45000.000	- 10.923	- 33.518
50000.000	- 11.528	- 36.713
55000.000	- 8.108	- 57.762
60000.000	- 17.291	- 58.955
65000.000	5.029	- 48.213
70000.000	11.640	- 17.897
75000.000	- 10.622	5.119
80000.000	- 39.819	20.682

LEGEND

5 m/sec or less

10 m/sec

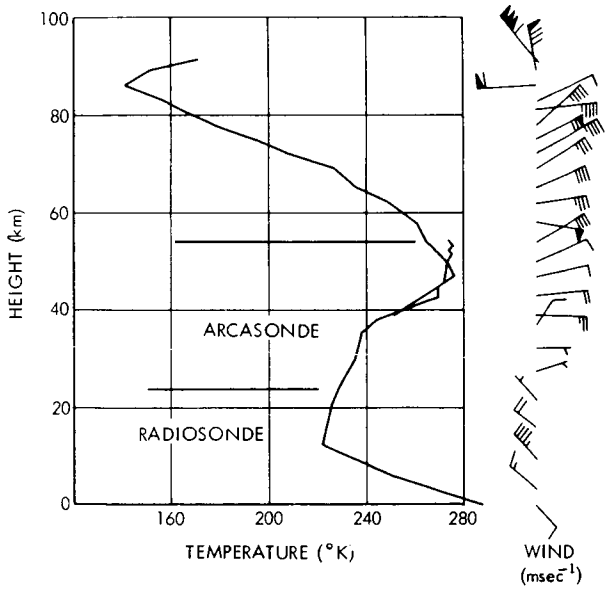
50 m/sec

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 (%)	
.3000000	05	.1245615	04	.1881538	01-	.2306370	03	.4058802	01	.2201968	01
.3100000	05	.1076763	04	.1605353	01-	.2336727	03	.4412433	01	.1656082	01
.3200000	05	.9325949	03	.1372579	01-	.2367085	03	.4896368	01	.1259975	01
.3300000	05	.8092457	03	.1175954	01-	.2397442	03	.5465560	01	.1611865	01
.3400000	05	.7034968	03	.1009502	01-	.2427800	03	.6042215	01	.2099898	01
.3500000	05	.6126584	03	.8682940	02-	.2458158	03	.6624753	01	.2594001	01
.3600000	05	.5344782	03	.7482519	02-	.2488515	03	.7212556	01	.3094830	01
.3700000	05	.4670665	03	.6459972	02-	.2518873	03	.7805816	01	.3599919	01
.3800000	05	.4088340	03	.5587224	02-	.2549230	03	.8404345	01	.4111071	01
.3900000	05	.3584411	03	.4840895	02-	.2579588	03	.9007984	01	.4629549	01
.4000000	05	.3147564	03	.4201471	02-	.2609945	03	.9616624	01	.5149824	01
.4100000	05	.2768226	03	.3652632	02-	.2640303	03	.1022948	02	.5677372	01
.4200000	05	.2438278	03	.3180700	02-	.2670660	03	.1084745	02	.6207422	01
.4300000	05	.2150824	03	.2774185	02-	.2701018	03	.1146994	02	.6744608	01
.4400000	05	.1899994	03	.2423421	02-	.2731376	03	.1209667	02	.7283242	01
.4500000	05	.1679721	03	.2140843	02-	.2733446	03	.1265659	02	.8876716	01
.4600000	05	.1484288	03	.1908756	02-	.2709106	03	.1301114	02	.1135618	02
.4700000	05	.1310181	03	.1700134	02-	.2684766	03	.1309193	02	.1360735	02
.4800000	05	.1155229	03	.1512778	02-	.2660425	03	.1293002	02	.1489160	02
.4900000	05	.1017465	03	.1344678	02-	.2636085	03	.1263033	02	.1564138	02
.5000000	05	.8951108	02	.1193999	02-	.2611745	03	.1219880	02	.1627224	02
.5100000	05	.7868673	02	.1053022	02-	.2603287	03	.1167891	02	.1611228	02
.5200000	05	.6914938	02	.9275109	03-	.2597331	03	.1112207	02	.1579849	02
.5300000	05	.6075249	02	.8167551	03-	.2591376	03	.1055153	02	.1498897	02
.5400000	05	.5336152	02	.7190436	03-	.2585420	03	.1004258	02	.1388626	02
.5500000	05	.4685751	02	.6328604	03-	.2579464	03	.9604120	01	.1285964	02
.5600000	05	.4111409	02	.5610678	03-	.2552898	03	.9179890	01	.1275027	02
.5700000	05	.3601802	02	.4985356	03-	.2516992	03	.8685420	01	.1299282	02
.5800000	05	.3149497	02	.4422396	03-	.2481086	03	.8091605	01	.1314527	02
.5900000	05	.2748726	02	.3916326	03-	.2445180	03	.7396459	01	.1320826	02
.6000000	05	.2394230	02	.3462086	03-	.2409274	03	.6596897	01	.1316967	02
.6100000	05	.2081224	02	.3055005	03-	.2373368	03	.5690430	01	.1303113	02
.6200000	05	.1805944	02	.2679352	03-	.2348187	03	.4718508	01	.1196156	02
.6300000	05	.1565099	02	.2339867	03-	.2330283	03	.3818050	01	.1010104	02
.6400000	05	.1354937	02	.2041354	03-	.2312379	03	.3033919	01	.8369386	01
.6500000	05	.1171735	02	.1779116	03-	.2294475	03	.2368001	01	.6757625	01
.6600000	05	.1012198	02	.1548967	03-	.2276571	03	.1823890	01	.5278825	01
.6700000	05	.8733981	01	.1347444	03-	.2258186	03	.1404062	01	.3937402	01
.6800000	05	.7522051	01	.1181635	03-	.2217742	03	.1037248	01	.3661321	01
.6900000	05	.6460806	01	.1033777	03-	.2177298	03	.6498830	00	.3377747	01
.7000000	05	.5533750	01	.9022001	04-	.2136854	03	.2405663	00	.3067365	01
.7100000	05	.4725940	01	.7853624	04-	.2096410	03	.1917612-	00	.2739654	01
.7200000	05	.4023865	01	.6818450	04-	.2055966	03	.6484895-	00	.2389890	01
.7300000	05	.3416244	01	.5885753	04-	.2022111	03	.1104843-	01	.1713501	01
.7400000	05	.2893149	01	.5056100	04-	.1993487	03	.1512486-	01	.8175315	00
.7500000	05	.2444397	01	.4334087	04-	.1964863	03	.1847208-	01	.2104741-	01
.7600000	05	.2060257	01	.3706983	04-	.1936239	03	.2102298-	01	.7766638-	00
.7700000	05	.1732162	01	.3163414	04-	.1907615	03	.2275764-	01	.1451270-	01
.7800000	05	.1452581	01	.2693233	04-	.1878990	03	.2360628-	01	.2064249-	01
.7900000	05	.1215104	01	.2283593	04-	.1853757	03	.2338541-	01	.2784471-	01
.8000000	05	.1014098	01	.1930572	04-	.1830004	03	.2170722-	01	.3423085-	01
.8100000	05	.8443942	00	.1628641	04-	.1806251	03	.2046972-	01	.2007171-	01
.8200000	05	.7014271	00	.1370919	04-	.1782498	03	.2159680-	01	.8018296-	00
.8300000	05	.5812517	00	.1151383	04-	.1758745	03	.2513794-	01	.1202352	00

FIGURE 27
8 AUGUST 1965, 0400 GMT, CHURCHILL

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
93.790	24.184	3.280	251.934	1.306	39087.750
84.325	18.523	2.203	265.937	.827	42886.100
77.315	7.879	5.725	276.118	1.599	46590.650
66.840	9.396	7.960	273.143	2.102	50188.250
56.464	39.473	3.579	265.655	.992	54275.950
100.523	51.339	3.150	261.165	.608	58261.000
83.554	33.591	6.209	249.667	1.062	61564.940
77.825	39.089	5.408	236.812	.837	65297.650
58.176	36.696	14.200	227.046	1.816	68933.100
61.409	46.437	14.368	208.774	1.628	71942.390
64.253	66.615	10.016	195.996	.894	74861.290
30.177	47.026	14.074	177.473	1.158	77733.790
80.372	46.922	15.909	164.376	.915	80500.890
68.096	9.714	17.518	157.414	.796	83140.440
263.831	62.441	19.708	141.403	1.050	86118.240
350.423	78.782	28.188	151.488	1.645	88993.600
327.718	159.574	27.093	171.116	1.916	91354.300



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.000	.775	- 22.763
45000.000	- 1.744	- 12.300
50000.000	- 3.593	- 8.589
55000.000	- 16.142	- 36.095
60000.000	2.456	- 41.477
65000.000	- 7.887	- 37.825
70000.000	- 20.369	- 34.581
75000.000	- 29.503	- 58.246
80000.000	- 13.786	- 42.166
85000.000	2.830	35.383
90000.000	-102.080	43.852

LEGEND

5 m/sec or less

10 m/sec

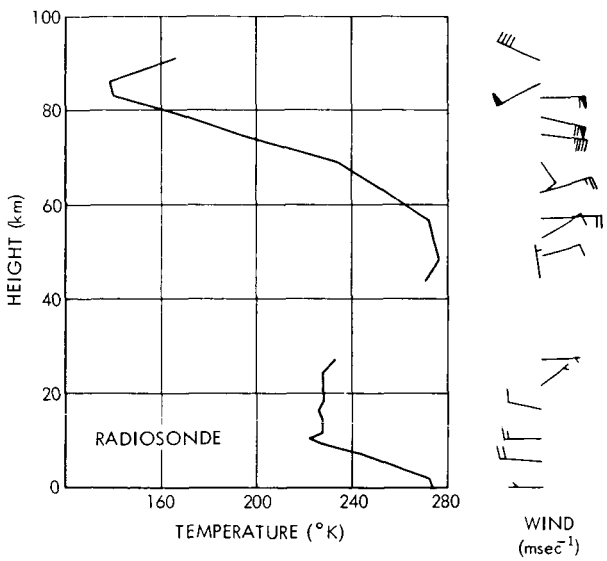
50 m/sec

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 (%)	
.3800000	05	.4244428	03	.5959863	02-	.2481082	03	.1254312	02	.1105475	02
.3900000	05	.3707469	03	.5133114	02-	.2516256	03	.1275039	02	.1094547	02
.4000000	05	.3244792	03	.4427911	02-	.2552972	03	.1300266	02	.1081692	02
.4100000	05	.2845393	03	.3827613	02-	.2589837	03	.1330221	02	.1073987	02
.4200000	05	.2499893	03	.3315652	02-	.2626701	03	.1364854	02	.1071363	02
.4300000	05	.2200342	03	.2879117	02-	.2662497	03	.1403634	02	.1078214	02
.4400000	05	.1939688	03	.2512122	02-	.2689981	03	.1443858	02	.1120999	02
.4500000	05	.1712170	03	.2195033	02-	.2717466	03	.1483292	02	.1163266	02
.4600000	05	.1513297	03	.1920648	02-	.2744950	03	.1521980	02	.1204997	02
.4700000	05	.1338787	03	.1691248	02-	.2757798	03	.1556110	02	.1301355	02
.4800000	05	.1184564	03	.1500925	02-	.2749527	03	.1579773	02	.1399139	02
.4900000	05	.1047762	03	.1331592	02-	.2741256	03	.1598406	02	.1451599	02
.5000000	05	.9264508	02	.1180982	02-	.2732985	03	.1612714	02	.1500458	02
.5100000	05	.8187593	02	.1050015	02-	.2716558	03	.1620531	02	.1578065	02
.5200000	05	.7230405	02	.9335551	03-	.2698241	03	.1619157	02	.1655308	02
.5300000	05	.6379962	02	.8293805	03-	.2679923	03	.1609640	02	.1676648	02
.5400000	05	.5624942	02	.7362620	03-	.2661606	03	.1599804	02	.1661340	02
.5500000	05	.4955758	02	.6519070	03-	.2648394	03	.1591983	02	.1625628	02
.5600000	05	.4363800	02	.5764902	03-	.2637127	03	.1588221	02	.1584951	02
.5700000	05	.3840608	02	.5095498	03-	.2625859	03	.1589148	02	.1548921	02
.5800000	05	.3378423	02	.4501613	03-	.2614592	03	.1594839	02	.1517202	02
.5900000	05	.2969052	02	.3999988	03-	.2585932	03	.1600486	02	.1562666	02
.6000000	05	.2605228	02	.3557717	03-	.2551130	03	.1599103	02	.1629566	02
.6100000	05	.2281980	02	.3159388	03-	.2516327	03	.1588539	02	.1689315	02
.6200000	05	.1995247	02	.2800971	03-	.2481683	03	.1569536	02	.1704365	02
.6300000	05	.1741336	02	.2478925	03-	.2447244	03	.1550843	02	.1664434	02
.6400000	05	.1516873	02	.2190207	03-	.2412804	03	.1534803	02	.1627155	02
.6500000	05	.1318782	02	.1931757	03-	.2378365	03	.1521468	02	.1591702	02
.6600000	05	.1144456	02	.1697181	03-	.2349249	03	.1512869	02	.1535252	02
.6700000	05	.9915326	01	.1487409	03-	.2322388	03	.1511982	02	.1473381	02
.6800000	05	.8576493	01	.1301624	03-	.2295527	03	.1520066	02	.1418754	02
.6900000	05	.7405577	01	.1138362	03-	.2266401	03	.1536802	02	.1383619	02
.7000000	05	.6375943	01	.1007071	03-	.2205680	03	.1549638	02	.1504783	02
.7100000	05	.5466831	01	.8879223	04-	.2144958	03	.1545530	02	.1615634	02
.7200000	05	.4667083	01	.7797460	04-	.2085213	03	.1523293	02	.1709129	02
.7300000	05	.3968771	01	.6772949	04-	.2041439	03	.1489000	02	.1704540	02
.7400000	05	.3363280	01	.5865413	04-	.1997665	03	.1449153	02	.1695506	02
.7500000	05	.2839527	01	.5070409	04-	.1951018	03	.1401893	02	.1696444	02
.7600000	05	.2385723	01	.4405687	04-	.1886533	03	.1336293	02	.1792526	02
.7700000	05	.1992451	01	.3809658	04-	.1822048	03	.1240908	02	.1868093	02
.7800000	05	.1653734	01	.3269533	04-	.1762130	03	.1116042	02	.1889213	02
.7900000	05	.1364821	01	.2772812	04-	.1714800	03	.9694698	01	.1804225	02
.8000000	05	.1120414	01	.2340877	04-	.1667470	03	.8085496	01	.1710242	02
.8100000	05	.9152142	00	.1955393	04-	.1630598	03	.6168428	01	.1765301	02
.8200000	05	.7446950	00	.1617233	04-	.1604220	03	.3875669	01	.1702124	02
.8300000	05	.6039176	00	.1333436	04-	.1577842	03	.1287682	01	.1595101	02
.8400000	05	.4872641	00	.1111019	04-	.1527922	03	.1745412-	01	.1617893	02
.8500000	05	.3902649	00	.9223050	05-	.1474155	03	.5390326-	01	.1594029	02
.8600000	05	.3100296	00	.7604216	05-	.1420388	03	.9646597-	01	.1491940	02
.8700000	05	.2457361	00	.5924782	05-	.1444956	03	.1390972-	02	.7645018	01
.8800000	05	.1957136	00	.4606901	05-	.1480029	03	.1758040-	02	.6093456	00
.8900000	05	.1567213	00	.3602933	05-	.1515409	03	.2067156-	02	.5434834-	01
.9000000	05	.1265664	00	.2758351	05-	.1598553	03	.2300376-	02	.1298576-	02
.9100000	05	.1033340	00	.2140689	05-	.1681697	03	.2456271-	02	.1760242-	02

FIGURE 28
8 AUGUST 1965, 0415 GMT, BARROW

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
354.284	4.953	4.810	270.643	1.449	44057.600
70.235	12.206	6.804	276.942	2.278	49125.500
50.299	9.313	2.141	274.616	.707	53143.900
86.222	18.693	9.646	271.747	2.870	57441.400
66.588	24.569	9.030	253.559	2.750	62995.600
150.994	8.281	11.998	234.756	2.497	69404.300
100.023	44.278	10.929	192.339	2.314	74916.300
111.755	71.790	12.955	168.823	2.305	79164.050
89.836	57.805	13.623	141.032	2.175	82929.490
231.288	48.363	18.002	138.858	2.651	86656.590
304.212	38.960	12.482	166.150	2.736	90941.750



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
45000.000	- 4.779	- 1.734
50000.000	- 4.524	- 10.546
55000.000	- 3.911	- 12.127
60000.000	- 5.161	- 20.446
65000.000	- 4.444	- 16.751
70000.000	7.293	- 8.294
75000.000	.8.079	- 44.057
80000.000	20.664	- 64.707
85000.000	16.729	- 4.728
90000.000	- 10.444	33.431

LEGEND

5 m/sec or less

10 m/sec

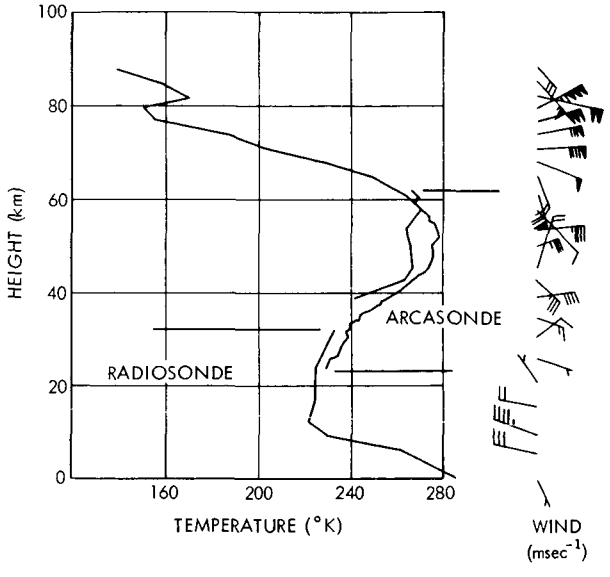
50 m/sec

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 (%)	
.2800000	05	.1794575	04	.2671525	01-	.2340241	03	.1103738	02	.6537122	01
.2900000	05	.1553452	04	.2290255	01-	.2363045	03	.1172536	02	.6632622	01
.3000000	05	.1346650	04	.1956392	01-	.2385849	03	.1249932	02	.6811069	01
.3100000	05	.1169019	04	.1690851	01-	.2408654	03	.1335832	02	.7070090	01
.3200000	05	.1016216	04	.1456054	01-	.2431458	03	.1430193	02	.7418213	01
.3300000	05	.8845806	03	.1255667	01-	.2454263	03	.1528364	02	.8499708	01
.3400000	05	.7710177	03	.1084388	01-	.2477067	03	.1622004	02	.9673748	01
.3500000	05	.6729094	03	.9377715	02-	.2499872	03	.1711062	02	.1089217	02
.3600000	05	.5880361	03	.8120834	02-	.2522676	03	.1795590	02	.1188960	02
.3700000	05	.5145130	03	.7041817	02-	.2545480	03	.1875716	02	.1293108	02
.3800000	05	.4507378	03	.6114190	02-	.2568285	03	.1951535	02	.1393044	02
.3900000	05	.3953462	03	.5315613	02-	.2591089	03	.2023143	02	.1488996	02
.4000000	05	.3471744	03	.4627196	02-	.2613894	03	.2090644	02	.1580440	02
.4100000	05	.3052286	03	.4032952	02-	.2636698	03	.2154064	02	.1668073	02
.4200000	05	.2686593	03	.3519327	02-	.2659502	03	.2213617	02	.1751459	02
.4300000	05	.2367384	03	.3074811	02-	.2682307	03	.2269353	02	.1831202	02
.4400000	05	.2088419	03	.2689619	02-	.2705111	03	.2321349	02	.1906765	02
.4500000	05	.1843926	03	.2363360	02-	.2718139	03	.2365959	02	.2019226	02
.4600000	05	.1629067	03	.2078469	02-	.2730570	03	.2403431	02	.2125720	02
.4700000	05	.1440108	03	.1829057	02-	.2743001	03	.2430693	02	.2222234	02
.4800000	05	.1273826	03	.1610566	02-	.2755432	03	.2452353	02	.2231839	02
.4900000	05	.1127409	03	.1419041	02-	.2767862	03	.2480075	02	.2203659	02
.5000000	05	.9980542	02	.1257818	02-	.2764360	03	.2510237	02	.2240687	02
.5100000	05	.8833940	02	.1115651	02-	.2758571	03	.2537881	02	.2301809	02
.5200000	05	.7817353	02	.9893410	03-	.2752782	03	.2562376	02	.2351787	02
.5300000	05	.6916241	02	.8771434	03-	.2746993	03	.2585509	02	.2349990	02
.5400000	05	.6117544	02	.7777036	03-	.2740445	03	.2615652	02	.2317716	02
.5500000	05	.5409688	02	.6893954	03-	.2733770	03	.2653767	02	.2294170	02
.5600000	05	.4782483	02	.6109581	03-	.2727094	03	.2700048	02	.2277605	02
.5700000	05	.4226882	02	.5413057	03-	.2720418	03	.2754739	02	.2268665	02
.5800000	05	.3733596	02	.4818966	03-	.2699179	3	.2813804	02	.2329175	02
.5900000	05	.3293889	02	.4303647	03-	.2666432	03	.2869671	02	.2446443	02
.6000000	05	.2901584	02	.3838216	03-	.2633686	03	.2918551	02	.2546465	02
.6100000	05	.2552053	02	.3418359	03-	.2600939	03	.2960043	02	.2647474	02
.6200000	05	.2241070	02	.3040086	03-	.2568192	03	.2994947	02	.2703550	02
.6300000	05	.1964783	02	.2699703	03-	.2535461	03	.3033043	02	.2702288	02
.6400000	05	.1719842	02	.2390809	03-	.2506120	03	.3078250	02	.2692090	02
.6500000	05	.1503141	02	.2114318	03-	.2476780	03	.3132110	02	.2687180	02
.6600000	05	.1311692	02	.1867146	03-	.2447439	03	.3195212	02	.2699451	02
.6700000	05	.1142798	02	.1646469	03-	.2418099	03	.3268216	02	.2700319	02
.6800000	05	.9940194	01	.1449709	03-	.2388758	03	.3351809	02	.2717862	02
.6900000	05	.8631589	01	.1274512	03-	.2359418	03	.3446749	02	.2745123	02
.7000000	05	.7475820	01	.1131528	03-	.2301715	03	.3541999	02	.2826584	02
.7100000	05	.6447430	01	.1009628	03-	.2224762	03	.3616478	02	.3207762	02
.7200000	05	.5531875	01	.8972943	04-	.2147809	03	.3658511	02	.3474305	02
.7300000	05	.4720112	01	.7940735	04-	.2070856	03	.3664019	02	.3722327	02
.7400000	05	.4003542	01	.6995175	04-	.1993903	03	.3628708	02	.3948228	02
.7500000	05	.3374266	01	.6126573	04-	.1918757	03	.3549095	02	.4132810	02
.7600000	05	.2827350	01	.5286070	04-	.1863394	03	.3434782	02	.4149011	02
.7700000	05	.2356610	01	.4540877	04-	.1808032	03	.3295400	02	.4146036	02
.7800000	05	.1953265	01	.3882571	04-	.1752669	03	.3129429	02	.4118440	02
.7900000	05	.1609325	01	.3303252	04-	.1697307	03	.2934620	02	.4062374	02
.8000000	05	.1316302	01	.2819372	04-	.1626527	03	.2698264	02	.4103912	02
.8100000	05	.1066899	01	.2393798	04-	.1552722	03	.2376442	02	.4403120	02
.8200000	05	.8560057	00	.2016466	04-	.1478917	03	.1940211	02	.4590027	02
.8300000	05	.6794123	00	.1678810	04-	.1409905	03	.1394947	02	.4598349	02
.8400000	05	.5360090	00	.1329965	04-	.1404074	03	.8083771	01	.3907409	02
.8500000	05	.4224882	00	.1052666	04-	.1398242	03	.2421393	01	.3232757	02
.8600000	05	.3327033	00	.8324308	05-	.1392410	03	.3038712-	01	.2580184	02
.8700000	05	.2622907	00	.6478621	05-	.1410453	03	.8110035-	01	.1770750	02
.8800000	05	.2081857	00	.4920051	05-	.1474142	03	.1232811-	02	.7448164	01
.8900000	05	.1668756	00	.3780439	05-	.1537832	03	.1553168-	02	.7758694-	00
.9000000	05	.1349777	00	.2936213	05-	.1601521	03	.1788678-	02	.7374984-	01

FIGURE 29
8 AUGUST 1965, 1003 GMT, CHURCHILL

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
74.756	38.748	10.394	241.851	4.332	38860.500
122.068	34.884	10.883	262.761	4.753	42590.550
36.493	17.523	10.083	267.007	4.023	46230.800
56.247	32.671	12.810	266.075	4.605	49786.650
75.878	47.134	8.117	263.806	2.620	53817.450
125.036	7.277	21.595	270.236	5.142	57742.150
168.598	75.749	19.794	264.757	5.821	61003.600
160.110	19.528	14.531	249.527	3.914	64693.440
118.335	48.417	24.260	229.515	5.256	68274.850
86.447	87.780	17.669	203.788	3.634	71234.900
71.342	83.765	26.060	187.073	4.515	74108.400
58.882	151.039	34.001	156.886	5.224	76924.400
49.146	166.181	31.411	150.857	3.831	79649.240
11.789	101.956	24.326	169.713	2.624	82269.840
139.359	53.440	22.746	158.210	2.134	85212.140
139.171	28.326	29.242	139.426	2.280	88032.390



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.000	- 1.418	- 34.994
45000.000	- 3.062	- 16.893
50000.000	- 17.800	- 28.145
55000.000	- 6.776	- 33.732
60000.000	52.690	- 12.200
65000.000	18.758	- 9.723
70000.000	6.417	- 68.840
75000.000	- 43.028	- 95.175
80000.000	-107.513	-111.661
85000.000	30.431	- 33.798

LEGEND

5 m/sec or less

10 m/sec

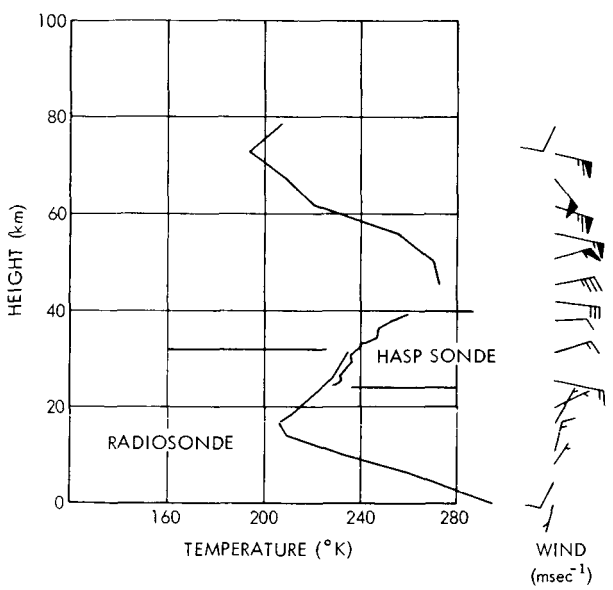
50 m/sec

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 (%)	
.3700000	05	.4946276	03	.6853779	02-	.2514238	03	.1416731	02	.9915482	01
.3800000	05	.4317945	03	.6108142	02-	.2462783	03	.1449244	02	.1381774	02
.3900000	05	.3760405	03	.5399377	02-	.2426326	03	.1436026	02	.1670040	02
.4000000	05	.3276795	03	.4598731	02-	.2482386	03	.1411720	02	.1509202	02
.4100000	05	.2864293	03	.3931040	02-	.2538447	03	.1405482	02	.1373222	02
.4200000	05	.2511191	03	.3371965	02-	.2594507	03	.1416218	02	.1259400	02
.4300000	05	.2206926	03	.2920760	02-	.2632389	03	.1437756	02	.1238447	02
.4400000	05	.1941962	03	.2558756	02-	.2644053	03	.1457277	02	.1327442	02
.4500000	05	.1709840	03	.2243014	02-	.2655717	03	.1467665	02	.1407282	02
.4600000	05	.1506364	03	.1967448	02-	.2667380	03	.1469198	02	.1478023	02
.4700000	05	.1327557	03	.1733470	02-	.2668056	03	.1459175	02	.1583498	02
.4800000	05	.1169949	03	.1529175	02-	.2665433	03	.1436899	02	.1613698	02
.4900000	05	.1030963	03	.1348842	02-	.2662810	03	.1412451	02	.1599949	02
.5000000	05	.9084005	02	.1189948	02-	.2659547	03	.1386460	02	.1587767	02
.5100000	05	.8002706	02	.1050528	02-	.2653917	03	.1358123	02	.1583726	02
.5200000	05	.7048500	02	.9272347	03-	.2648288	03	.1326840	02	.1576400	02
.5300000	05	.6206634	02	.8182259	03-	.2642658	03	.1294236	02	.1519605	02
.5400000	05	.5464584	02	.7208403	03-	.2641047	03	.1269113	02	.1417083	02
.5500000	05	.4813158	02	.6309952	03-	.2657432	03	.1258427	02	.1252702	02
.5600000	05	.4242864	02	.5528224	03-	.2673816	03	.1267072	02	.1109331	02
.5700000	05	.3743170	02	.4847446	03-	.2690201	03	.1295124	02	.9867102	01
.5800000	05	.3304320	02	.4266716	03-	.2698029	03	.1340518	02	.9162270	01
.5900000	05	.2916420	02	.3789433	03-	.2681229	03	.1394847	02	.9540199	01
.6000000	05	.2572137	02	.3363164	03-	.2664429	03	.1451773	02	.9936057	01
.6100000	05	.2266784	02	.2982710	03-	.2647630	03	.1511367	02	.1035628	02
.6200000	05	.1994972	02	.2666531	03-	.2606442	03	.1567936	02	.1142582	02
.6300000	05	.1752251	02	.2379791	03-	.2565166	03	.1623245	02	.1197964	02
.6400000	05	.1535888	02	.2120055	03-	.2523891	03	.1679403	02	.1254741	02
.6500000	05	.1343213	02	.1888328	03-	.2478139	03	.1734909	02	.1331101	02
.6600000	05	.1171495	02	.1684912	03-	.2422262	03	.1784867	02	.1451862	02
.6700000	05	.1018517	02	.1499480	03-	.2366386	03	.1825275	02	.1566497	02
.6800000	05	.8825984	01	.1330802	03-	.2310509	03	.1855185	02	.1674731	02
.6900000	05	.7616161	01	.1188710	03-	.2232124	03	.1864862	02	.1887102	02
.7000000	05	.6535966	01	.1061448	03-	.2145208	03	.1839510	02	.2125982	02
.7100000	05	.5573873	01	.9434273	04-	.2058291	03	.1771595	02	.2341741	02
.7200000	05	.4725407	01	.8258657	04-	.1993370	03	.1667296	02	.2401690	02
.7300000	05	.3985640	01	.7175134	04-	.1935202	03	.1537832	02	.2399568	02
.7400000	05	.3344443	01	.6207404	04-	.1877033	03	.1385028	02	.2377430	02
.7500000	05	.2784977	01	.5465682	04-	.1775151	03	.1182850	02	.2608264	02
.7600000	05	.2293572	01	.4790559	04-	.1667955	03	.8984183	01	.2822697	02
.7700000	05	.1865570	01	.4147133	04-	.1567190	03	.5250757	01	.2919420	02
.7800000	05	.1505310	01	.3394204	04-	.1545063	03	.1183703	01	.2342561	02
.7900000	05	.1210948	01	.2770143	04-	.1522936	03	.2672561-	01	.1792859	02
.8000000	05	.9734376	00	.2211033	04-	.1533808	03	.6093221-	01	.1060698	02
.8100000	05	.7870543	00	.1707585	04-	.1605760	03	.8698625-	01	.2742778	01
.8200000	05	.6423552	00	.1333878	04-	.1677712	03	.1039947-	02	.3482055-	01
.8300000	05	.5263103	00	.1098886	04-	.1668581	03	.1172844-	02	.4444685-	01
.8400000	05	.4299986	00	.9193361	05-	.1629487	03	.1329273-	02	.3865301-	01
.8500000	05	.3496138	00	.7658475	05-	.1590393	03	.1524513-	02	.3727534-	01
.8600000	05	.2823935	00	.6431735	05-	.1529624	03	.1770072-	02	.2799820-	01
.8700000	05	.2260477	00	.5382800	05-	.1463019	03	.2080727-	02	.2202030-	01
.8800000	05	.1790905	00	.4468032	05-	.1396415	03	.2458077-	02	.2423390-	01

FIGURE 30
8 AUGUST 1965, 1015 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
70.817	34.467	.412	272.239	.176	45446.700
65.347	54.102	.646	269.552	.250	50882.050
96.578	53.777	.736	255.448	.295	55966.550
101.423	65.184	.866	221.082	.295	61753.000
137.039	47.635	2.033	208.974	.592	67277.350
102.071	64.955	1.284	193.232	.353	72734.140
206.941	10.641	2.611	207.431	.486	78492.840



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
50000.000	- 20.743	- 46.474
55000.000	.700	- 52.291
60000.000	10.865	- 60.600
65000.000	25.812	- 45.420
70000.000	24.245	- 47.958
75000.000	11.972	- 36.629

LEGEND

5 m/sec or less

10 m/sec

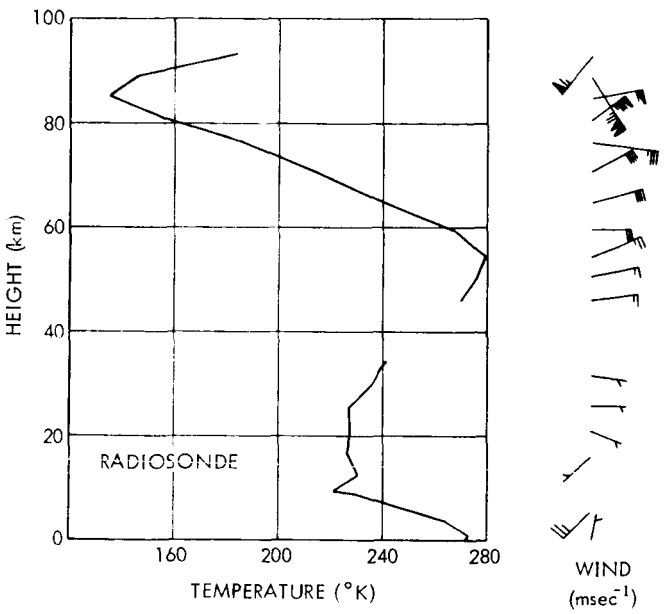
50 m/sec

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 (%)	
.3300000	05	.8326503	03	.1233928	01-	.2350882	03	.8515782	01	.6621322	01
.3400000	05	.7218397	03	.1056304	01-	.2380729	03	.8807138	01	.6833335	01
.3500000	05	.6269181	03	.9060411	02-	.2410577	03	.9106458	01	.7054036	01
.3600000	05	.5454478	03	.7786565	02-	.2440425	03	.9412980	01	.7284011	01
.3700000	05	.4753889	03	.6704437	02-	.2470272	03	.9726745	01	.7520457	01
.3800000	05	.4150310	03	.5783328	02-	.2500120	03	.1004752	02	.7765236	01
.3900000	05	.3629359	03	.4997734	02-	.2529968	03	.1037493	02	.8019424	01
.4000000	05	.3178927	03	.4326434	02-	.2559815	03	.1070886	02	.8277261	01
.4100000	05	.2788791	03	.3751725	02-	.2589663	03	.1104839	02	.8544299	01
.4200000	05	.2450308	03	.3258808	02-	.2619511	03	.1139436	02	.8815532	01
.4300000	05	.2156152	03	.2835286	02-	.2649358	03	.1174611	02	.9095624	01
.4400000	05	.1900104	03	.2470754	02-	.2679206	03	.1210321	02	.9378656	01
.4500000	05	.1676874	03	.2156458	02-	.2709053	03	.1246567	02	.9670883	01
.4600000	05	.1481309	03	.1897539	02-	.2719651	03	.1278432	02	.1070177	02
.4700000	05	.1308768	03	.1679570	02-	.2714707	03	.1296998	02	.1223318	02
.4800000	05	.1156108	03	.1486363	02-	.2709764	03	.1301591	02	.1288550	02
.4900000	05	.1021063	03	.1315141	02-	.2704820	03	.1302857	02	.1310122	02
.5000000	05	.9016210	02	.1163425	02-	.2699876	03	.1301483	02	.1329487	02
.5100000	05	.7959519	02	.1029984	02-	.2692244	03	.1296828	02	.1357198	02
.5200000	05	.7021169	02	.9180172	03-	.2664506	03	.1282919	02	.1461321	02
.5300000	05	.6185559	02	.8172691	03-	.2636769	03	.1255885	02	.1506134	02
.5400000	05	.5442316	02	.7267125	03-	.2609031	03	.1223190	02	.1510090	02
.5500000	05	.4782025	02	.6454055	03-	.2581293	03	.1185606	02	.1509686	02
.5600000	05	.4196034	02	.5727062	03-	.2552497	03	.1142714	02	.1508909	02
.5700000	05	.3673582	02	.5133425	03-	.2493105	03	.1085141	02	.1634882	02
.5800000	05	.3206022	02	.4589393	03-	.2433714	03	.1003157	02	.1741782	02
.5900000	05	.2788697	02	.4091852	03-	.2374322	03	.8958186	01	.1828212	02
.6000000	05	.2417248	02	.3637821	03-	.2314931	03	.7621683	01	.1891411	02
.6100000	05	.2087599	02	.3224443	03-	.2255539	03	.6014138	01	.1930011	02
.6200000	05	.1796515	02	.2837924	03-	.2205404	03	.4171753	01	.1858778	02
.6300000	05	.1542292	02	.2460788	03-	.2183487	03	.2305211	01	.1579087	02
.6400000	05	.1322071	02	.2130804	03-	.2161570	03	.5346360	00	.1311803	02
.6500000	05	.1131571	02	.1842454	03-	.2139653	03	.1140905-	01	.1055829	02
.6600000	05	.9670175	01	.1590819	03-	.2117735	03	.2721080-	01	.8123376	01
.6700000	05	.8250843	01	.1371522	03-	.2095818	03	.4205322-	01	.5794691	01
.6800000	05	.7027086	01	.1183301	03-	.2068893	03	.5611198-	01	.3807491	01
.6900000	05	.5972108	01	.1019873	03-	.2040045	03	.6963323-	01	.1987297	01
.7000000	05	.5064026	01	.8772017	04-	.2011197	03	.8268197-	01	.2115418	00
.7100000	05	.4284025	01	.7528871	04-	.1982350	03	.9524669-	01	.1508703-	01
.7200000	05	.3615479	01	.6447779	04-	.1953502	03	.1073178-	02	.3176322-	01
.7300000	05	.3045656	01	.5472532	04-	.1938879	03	.1183283-	02	.5427496-	01
.7400000	05	.2566906	01	.4554385	04-	.1963534	03	.1261834-	02	.9186559-	01
.7500000	05	.2168146	01	.3799173	04-	.1988189	03	.1293983-	02	.1236048-	02
.7600000	05	.1835242	01	.3176446	04-	.2012844	03	.1279436-	02	.1497735-	02
.7700000	05	.1556689	01	.2661720	04-	.2037500	03	.1217552-	02	.1708035-	02
.7800000	05	.1323098	01	.2235264	04-	.2062155	03	.1106421-	02	.1871767-	02

FIGURE 31
9 AUGUST 1965, 1010 GMT, BARROW

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
75.882	13.142	1.937	270.211	.584	45736.600
67.491	16.580	4.905	276.094	1.465	50540.050
54.808	22.967	4.220	279.189	1.265	54589.000
90.174	29.027	3.649	267.598	.959	59599.300
63.462	38.201	5.772	238.791	1.404	65452.25[illegible]
42.706	41.915	7.498	212.234	1.524	71315.9[illegible]
104.617	37.393	6.918	184.691	1.103	76626.45
36.2[illegible]	84.465	10.881	155.600	1.482	81229.8[illegible]
72.2[illegible]	53.635	16.821	135.315	2.199	85279.35
144.746	126.498	56.431	146.875	6.354	89267.100
222.578	63.467	81.875	183.332	15.8[illegible]2	97[illegible].550



HEIGHT meters	WIND COMPONENTS m/sec SOUTH component (+)	WEST component (+)
50000.000	- 5.994	- 15.027
55000.000	- 12.143	- 19.611
60000.000	- 1.086	- 29.380
65000.000	- 15.742	- 33.778
70000.000	- 27.719	- 29.719
75000.000	- 2.887	- 33.808
80000.000	- 47.405	- 46.259
85000.000	- 19.960	- 50.990
90000.000	93.577	- 53.087

LEGEND

5 m/sec or less

10 m/sec

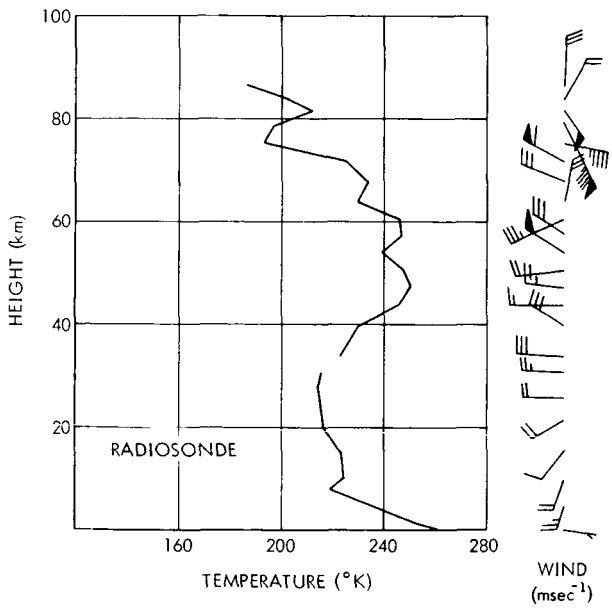
30 m/sec

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 (%)	
.3400000	05	.7632969	03	.1102173	01-	.2412692	03	.1505624	02	.1147249	02
.3500000	05	.6638030	03	.9488100	02-	.2437351	03	.1552577	02	.1210743	02
.3600000	05	.5781150	03	.8180550	02-	.2462010	03	.1596579	02	.1271237	02
.3700000	05	.5042036	03	.7063924	02-	.2486669	03	.1637759	02	.1328561	02
.3800000	05	.4403543	03	.6108813	02-	.2511329	03	.1676211	02	.1383024	02
.3900000	05	.3851159	03	.5290569	02-	.2535988	03	.1712022	02	.1434866	02
.4000000	05	.3372577	03	.4588495	02-	.2560647	03	.1745289	02	.1483585	02
.4100000	05	.2957348	03	.3985186	02-	.2585306	03	.1776024	02	.1529876	02
.4200000	05	.2596584	03	.3465978	02-	.2609966	03	.1804426	02	.1573319	02
.4300000	05	.2282710	03	.3018493	02-	.2634625	03	.1830518	02	.1614502	02
.4400000	05	.2009268	03	.2632275	02-	.2659284	03	.1854367	02	.1652906	02
.4500000	05	.1770735	03	.2298467	02-	.2683944	03	.1876074	02	.1689299	02
.4600000	05	.1562267	03	.2011836	02-	.2705334	03	.1894828	02	.1736980	02
.4700000	05	.1379467	03	.1768426	02-	.2717582	03	.1907252	02	.1817077	02
.4800000	05	.1218786	03	.1555428	02-	.2729831	03	.1914306	02	.1813076	02
.4900000	05	.1077460	03	.1368924	02-	.2742079	03	.1927155	02	.1772650	02
.5000000	05	.9530808	02	.1205514	02-	.2754328	03	.1946512	02	.1739352	02
.5100000	05	.8435117	02	.1063014	02-	.2764458	03	.1971838	02	.1721409	02
.5200000	05	.7468603	02	.9386166	03-	.2772102	03	.2001938	02	.1718501	02
.5300000	05	.6615301	02	.8290919	03-	.2779746	03	.2037888	02	.1672585	02
.5400000	05	.5861664	02	.7326244	03-	.2787389	03	.2087973	02	.1603726	02
.5500000	05	.5194358	02	.6503888	03-	.2782383	03	.2150090	02	.1598554	02
.5600000	05	.4600372	02	.5808450	03-	.2759248	03	.2216448	02	.1672464	02
.5700000	05	.4070303	02	.5182636	03-	.2736114	03	.2282257	02	.1746417	02
.5800000	05	.3597706	02	.4619951	03-	.2712979	03	.2347424	02	.1819965	02
.5900000	05	.3176745	02	.4114465	03-	.2689844	03	.2411973	02	.1893581	02
.6000000	05	.2801446	02	.3674263	03-	.2656258	03	.2472713	02	.2010535	02
.6100000	05	.2465696	02	.3294959	03-	.2607040	03	.2521501	02	.2190910	02
.6200000	05	.2164999	02	.2948801	03-	.2557822	03	.2553848	02	.2322097	02
.6300000	05	.1896253	02	.2633432	03-	.2508604	03	.2578456	02	.2391456	02
.6400000	05	.1656580	02	.2346625	03-	.2459386	03	.2597182	02	.2457532	02
.6500000	05	.1443314	02	.2086275	03-	.2410169	03	.2609436	02	.2518902	02
.6600000	05	.1254067	02	.1848829	03-	.2363101	03	.2615523	02	.2565956	02
.6700000	05	.1086666	02	.1633339	03-	.2317809	03	.2616505	02	.2599040	02
.6800000	05	.9389940	01	.1439507	03-	.2272518	03	.2612699	02	.2628360	02
.6900000	05	.8090450	01	.1265513	03-	.2227226	03	.2603734	02	.2655130	02
.7000000	05	.6949827	01	.1109661	03-	.2181934	03	.2589194	02	.2676776	02
.7100000	05	.5951297	01	.9703713	04-	.2136642	03	.2568684	02	.2694217	02
.7200000	05	.5078712	01	.8478510	04-	.2086855	03	.2539627	02	.2731835	02
.7300000	05	.4317365	01	.7391193	04-	.2034991	03	.2498128	02	.2772946	02
.7400000	05	.3654984	01	.6420859	04-	.1983127	03	.2442160	02	.2803053	02
.7500000	05	.3080761	01	.5557439	04-	.1931263	03	.2370548	02	.2819929	02
.7600000	05	.2584839	01	.4791512	04-	.1879400	03	.2282440	02	.2825247	02
.7700000	05	.2157793	01	.4122960	04-	.1823303	03	.2173726	02	.2844114	02
.7800000	05	.1790598	01	.3544191	04-	.1760107	03	.2036015	02	.2887969	02
.7900000	05	.1475876	01	.3030044	04-	.1696911	03	.1862049	02	.2899292	02
.8000000	05	.1207653	01	.2575277	04-	.1633716	03	.1650139	02	.2882830	02
.8100000	05	.9804511	00	.2174907	04-	.1570520	03	.1373616	02	.3086083	02
.8200000	05	.7898276	00	.1813370	04-	.1517414	03	.1017109	02	.3121346	02
.8300000	05	.6315718	00	.1499535	04-	.1467318	03	.5925775	01	.3039436	02
.8400000	05	.5011533	00	.1231943	04-	.1417222	03	.1055286	01	.2882395	02
.8500000	05	.3943986	00	.1005043	04-	.1367127	03	.4388217-	01	.2634107	02
.8600000	05	.3092471	00	.7840841	05-	.1374046	03	.9874633-	01	.1849543	02
.8700000	05	.2432597	00	.6040330	05-	.1403032	03	.1477729-	02	.9744365	01
.8800000	05	.1923082	00	.4678507	05-	.1432019	03	.1901447-	02	.2173124	01
.8900000	05	.1527573	00	.3642574	05-	.1461006	03	.2267801-	02	.4394387-	01
.9000000	05	.1231118	00	.2634049	05-	.1628299	03	.2510533-	02	.1690696-	02
.9100000	05	.1015493	00	.1930128	05-	.1832943	03	.2586562-	02	.2570717-	02
.9200000	05	.8466427	01-	.1614822	05-	.1826559	03	.2605095-	02	.2443510-	02
.9300000	05	.7054585	01-	.1350257	05-	.1820175	03	.2649713-	02	.2341141-	02

FIGURE 32
13 OCTOBER 1965, 1601 GMT, BARROW

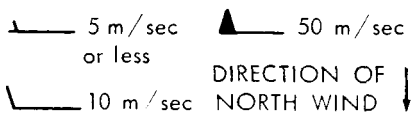
WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
278.969	28.402	1.584	223.479	.785	34089.900
300.549	30.876	2.622	230.193	1.386	39700.050
270.358	15.458	4.609	245.629	2.287	43924.850
280.556	23.374	7.767	249.610	3.967	47442.190
259.119	17.948	10.483	246.675	4.374	50861.250
294.718	47.574	10.677	238.720	4.827	54180.350
297.376	28.699	10.145	246.430	5.065	57435.450
255.067	34.536	6.367	245.681	2.694	60610.650
11.185	31.318	5.936	228.729	2.301	64164.740
289.173	30.157	7.098	232.665	3.219	68083.140
300.851	61.298	8.801	224.743	3.780	71857.490
101.701	46.774	7.706	193.193	3.020	75494.850
153.011	96.922	7.290	196.673	2.643	78982.240
145.406	47.610	35.313	211.868	11.671	81888.740
19.519	20.201	30.353	200.770	14.401	84260.700
2.577	29.350	26.251	186.251	13.614	86554.700



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.000	- 6.255	27.817
40000.000	- 14.586	25.800
45000.000	- 1.376	17.757
50000.000	1.456	18.973
55000.000	- 18.207	38.751
60000.000	4.650	31.854
65000.000	- 24.929	- 3.233
70000.000	- 20.838	40.744
75000.000	3.919	- 32.411
80000.000	69.848	- 12.055
85000.000	- 22.353	- 5.000

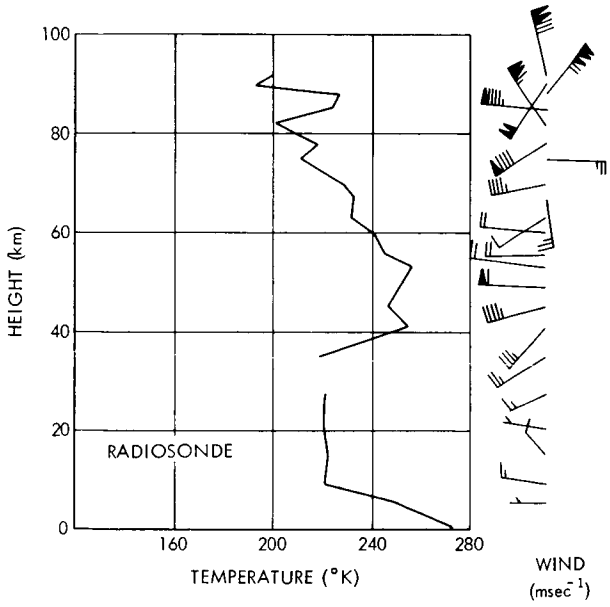
LEGEND



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	.1059413	04	.1721076	01-	.2144487	03	.1149654-	02	.6514079-	01
.3100000	05	.9051961	03	.1455556	01-	.2166566	03	.1222425-	02	.7829550-	01
.3200000	05	.7747003	03	.1233151	01-	.2188646	03	.1286329-	02	.9026087-	01
.3300000	05	.6640860	03	.1046520	01-	.2210725	03	.1345249-	02	.9572247-	01
.3400000	05	.5701651	03	.8896272	02-	.2232805	03	.1405565-	02	.1002415-	02
.3500000	05	.4901340	03	.7603699	02-	.2245681	03	.1469891-	02	.1015785-	02
.3600000	05	.4217080	03	.6507493	02-	.2257648	03	.1540834-	02	.1033917-	02
.3700000	05	.3631399	03	.5574165	02-	.2269616	03	.1618196-	02	.1060595-	02
.3800000	05	.3129664	03	.4778809	02-	.2281583	03	.1701540-	02	.1095275-	02
.3900000	05	.2699478	03	.4100433	02-	.2293550	03	.1790432-	02	.1137456-	02
.4000000	05	.2330868	03	.3510924	02-	.2312887	03	.1882552-	02	.1213244-	02
.4100000	05	.2016222	03	.2989750	02-	.2349425	03	.1971497-	02	.1350103-	02
.4200000	05	.1748035	03	.2552376	02-	.2385963	03	.2053193-	02	.1477305-	02
.4300000	05	.1518879	03	.2184326	02-	.2422500	03	.2128162-	02	.1595189-	02
.4400000	05	.1322529	03	.1875137	02-	.2457142	03	.2197285-	02	.1698891-	02
.4500000	05	.1153102	03	.1627421	02-	.2468459	03	.2266301-	02	.1723433-	02
.4600000	05	.1006054	03	.1413406	02-	.2479776	03	.2340077-	02	.1754235-	02
.4700000	05	.8783404	02	.1228375	02-	.2491093	03	.2418362-	02	.1791680-	02
.4800000	05	.7671278	02	.1072749	02-	.2491310	03	.2500901-	02	.1852746-	02
.4900000	05	.6698582	02	.9399656	03-	.2482727	03	.2584872-	02	.1916359-	02
.5000000	05	.5846723	02	.8232762	03-	.2474145	03	.2671351-	02	.1982896-	02
.5100000	05	.5100695	02	.7213529	03-	.2463427	03	.2760658-	02	.2045947-	02
.5200000	05	.4445755	02	.6349075	03-	.2439457	03	.2855734-	02	.2073266-	02
.5300000	05	.3869822	02	.5581416	03-	.2415487	03	.2958070-	02	.2142059-	02
.5400000	05	.3363988	02	.4900483	03-	.2391518	03	.3062756-	02	.2238333-	02
.5500000	05	.2923647	02	.4232310	03-	.2406610	03	.3161315-	02	.2452412-	02
.5600000	05	.2543914	02	.3646711	03-	.2430296	03	.3244548-	02	.2671695-	02
.5700000	05	.2216585	02	.3146814	03-	.2453983	03	.3311390-	02	.2867765-	02
.5800000	05	.1933228	02	.2734530	03-	.2462967	03	.3365108-	02	.3003812-	02
.5900000	05	.1686473	02	.2387782	03-	.2460610	03	.3410723-	02	.3097697-	02
.6000000	05	.1471076	02	.2084811	03-	.2458252	03	.3450417-	02	.3185110-	02
.6100000	05	.1282449	02	.1832405	03-	.2438242	03	.3487361-	02	.3220344-	02
.6200000	05	.1115905	02	.1626254	03-	.2390545	03	.3529375-	02	.3204404-	02
.6300000	05	.9683124	01	.1439891	03-	.2342847	03	.3576870-	02	.3224679-	02
.6400000	05	.8378306	01	.1271754	03-	.2295150	03	.3628858-	02	.3248636-	02
.6500000	05	.7239048	01	.1098571	03-	.2295681	03	.3675643-	02	.3407915-	02
.6600000	05	.6256971	01	.9453987	04-	.2305724	03	.3705684-	02	.3574398-	02
.6700000	05	.5411795	01	.8141504	04-	.2315767	03	.3716749-	02	.3719912-	02
.6800000	05	.4683938	01	.7016089	04-	.2325810	03	.3708469-	02	.3844995-	02
.6900000	05	.4053089	01	.6119576	04-	.2307401	03	.3685882-	02	.3880424-	02
.7000000	05	.3503016	01	.5337598	04-	.2286411	03	.3654497-	02	.3902327-	02
.7100000	05	.3023664	01	.4649888	04-	.2265423	03	.3614252-	02	.3917102-	02
.7200000	05	.2605646	01	.4061475	04-	.2235063	03	.3566512-	02	.3901048-	02
.7300000	05	.2236578	01	.3626956	04-	.2148325	03	.3525441-	02	.3732146-	02
.7400000	05	.1907832	01	.3224013	04-	.2061586	03	.3505430-	02	.3571389-	02
.7500000	05	.1616405	01	.2851509	04-	.1974848	03	.3509457-	02	.3422125-	02
.7600000	05	.1362382	01	.2450388	04-	.1936967	03	.3526339-	02	.3441145-	02
.7700000	05	.1146938	01	.2052316	04-	.1946945	03	.3529264-	02	.3606490-	02
.7800000	05	.9664657	00	.1720563	04-	.1956924	03	.3503625-	02	.3743407-	02
.7900000	05	.8151691	00	.1443301	04-	.1967655	03	.3448247-	02	.3855678-	02
.8000000	05	.6894391	00	.1189095	04-	.2019936	03	.3349034-	02	.4051552-	02
.8100000	05	.5856326	00	.9845731	05-	.2072218	03	.3206433-	02	.4075974-	02
.8200000	05	.4992998	00	.8230422	05-	.2113476	03	.3035391-	02	.4044557-	02
.8300000	05	.4256244	00	.7174810	05-	.2066685	03	.2861526-	02	.3761034-	02
.8400000	05	.3615144	00	.6235271	05-	.2019893	03	.2710227-	02	.3479796-	02
.8500000	05	.3047105	00	.5637042	05-	.1883191	03	.2613079-	02	.2913838-	02
.8600000	05	.2547015	00	.4832841	05-	.1836062	03	.2577112-	02	.2696326-	02

FIGURE 33
13 OCTOBER 1965, 1612 GMT, CHURCHILL

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
242.621	26.901	5.142	217.925	2.165	35285.450
214.882	35.511	11.239	254.938	4.471	41110.900
259.558	45.677	14.156	246.348	6.163	45515.200
273.751	59.745	11.346	251.169	3.913	49172.250
279.784	21.072	6.150	256.988	2.152	52736.750
261.496	21.439	4.961	244.361	1.481	56208.300
288.846	21.699	2.280	240.620	.562	59594.900
242.924	8.055	4.025	231.710	.947	63416.340
174.748	25.574	6.412	232.640	1.421	67127.740
251.112	43.604	9.872	228.527	2.140	70714.650
91.157	23.626	22.341	211.305	4.349	74673.150
238.958	92.020	52.017	218.635	10.448	78507.300
338.621	113.675	46.445	201.169	9.596	82185.800
275.757	92.614	41.939	224.921	9.207	85260.100
33.448	168.897	45.111	227.837	9.066	87820.850
207.476	101.649	34.220	192.537	6.947	90247.950
349.811	132.380	384.840	199.803	70.242	92558.450



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.000	25.935	20.991
45000.000	10.238	39.437
50000.000	- 3.833	50.595
55000.000	.821	21.051
60000.000	- 5.878	19.119
65000.000	12.969	3.113
70000.000	16.377	32.570
75000.000	4.482	- 14.886
80000.000	- 14.758	63.664
85000.000	- 17.459	87.857
90000.000	66.574	32.598

LEGEND

5 m/sec or less

10 m/sec

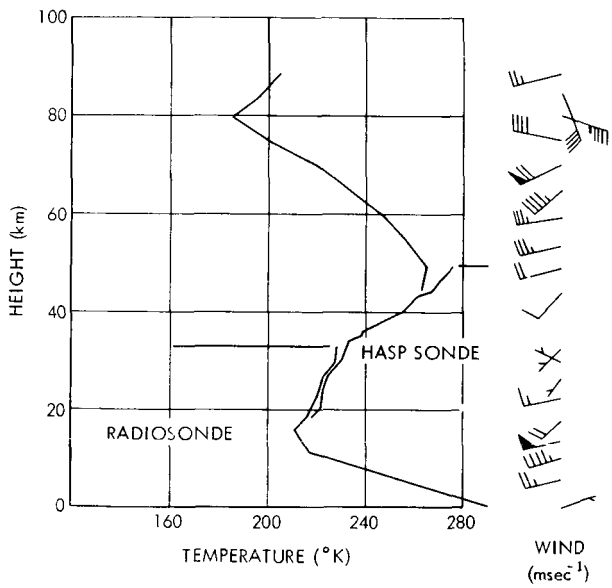
50 m/sec

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 (%)	
.2800000	05	.1556307	04	.2448285	01-	.2214580	03	.3705199-	01	.2365387-	01
.2900000	05	.1335177	04	.2105027	01-	.2209730	03	.3973137-	01	.1991473-	01
.3000000	05	.1145134	04	.1809379	01-	.2204880	03	.4335356-	01	.1717569-	01
.3100000	05	.9818571	03	.1554811	01-	.2200030	03	.4790532-	01	.1544349-	01
.3200000	05	.8416158	03	.1335678	01-	.2195181	03	.5336772-	01	.1462338-	01
.3300000	05	.7211941	03	.1147098	01-	.2190331	03	.6009836-	01	.8815174-	00
.3400000	05	.6178213	03	.9848589	02-	.2185481	03	.6872155-	01	.3925206-	00
.3500000	05	.5291088	03	.8453195	02-	.2180631	03	.7915898-	01	.1205611-	00
.3600000	05	.4537796	03	.7106274	02-	.2224648	03	.8974999-	01	.2089102-	01
.3700000	05	.3906185	03	.5947299	02-	.2288185	03	.9839519-	01	.4621932-	01
.3800000	05	.3376473	03	.5001903	02-	.2351723	03	.1047117-	02	.6795674-	01
.3900000	05	.2930085	03	.4226437	02-	.2415260	03	.1089118-	02	.8651144-	01
.4000000	05	.2552202	03	.3587006	02-	.2478798	03	.1111737-	02	.1022833-	02
.4100000	05	.2230930	03	.3057111	02-	.2542335	03	.1116540-	02	.1155215-	02
.4200000	05	.1952948	03	.2687065	02-	.2532040	03	.1121633-	02	.1027563-	02
.4300000	05	.1708330	03	.2368742	02-	.2512535	03	.1146302-	02	.8855978-	01
.4400000	05	.1492857	03	.2086165	02-	.2493030	03	.1192377-	02	.7646842-	01
.4500000	05	.1303237	03	.1835545	02-	.2473526	03	.1259371-	02	.6649800-	01
.4600000	05	.1137026	03	.1603817	02-	.2469868	03	.1342883-	02	.6433888-	01
.4700000	05	.9923167	02	.1392267	02-	.2483052	03	.1434544-	02	.6965098-	01
.4800000	05	.8666857	02	.1209579	02-	.2496236	03	.1527667-	02	.8135572-	01
.4900000	05	.7575318	02	.1051685	02-	.2509420	03	.1614351-	02	.9555799-	01
.5000000	05	.6626658	02	.9142317	03-	.2525203	03	.1693733-	02	.1097168-	02
.5100000	05	.5801952	02	.7953117	03-	.2541528	03	.1765375-	02	.1230435-	02
.5200000	05	.5084418	02	.6925066	03-	.2557852	03	.1829411-	02	.1354149-	02
.5300000	05	.4457974	02	.6066024	03-	.2560304	03	.1887807-	02	.1459791-	02
.5400000	05	.3905428	02	.5390752	03-	.2523931	03	.1946192-	02	.1461817-	02
.5500000	05	.3414944	02	.4782650	03-	.2487558	03	.2012125-	02	.1470975-	02
.5600000	05	.2980289	02	.4235850	03-	.2451184	03	.2085740-	02	.1487781-	02
.5700000	05	.2597255	02	.3716195	03-	.2434862	03	.2162706-	02	.1577264-	02
.5800000	05	.2261795	02	.3250962	03-	.2423815	03	.2237459-	02	.1682541-	02
.5900000	05	.1968503	02	.2842358	03-	.2412768	03	.2308792-	02	.1783668-	02
.6000000	05	.1711978	02	.2488476	03-	.2396751	03	.2377861-	02	.1865597-	02
.6100000	05	.1487234	02	.2183033	03-	.2373435	03	.2447405-	02	.1923070-	02
.6200000	05	.1290258	02	.1912690	03-	.2350119	03	.2518380-	02	.2007479-	02
.6300000	05	.1117834	02	.1673693	03-	.2326804	03	.2585044-	02	.2124539-	02
.6400000	05	.9675532	01	.1453833	03-	.2318560	03	.2642404-	02	.2282033-	02
.6500000	05	.8373671	01	.1256858	03-	.2321068	03	.2684386-	02	.2458096-	02
.6600000	05	.7248435	01	.1086790	03-	.2323575	03	.2708303-	02	.2613401-	02
.6700000	05	.6275681	01	.9399266	04-	.2326082	03	.2713753-	02	.2749717-	02
.6800000	05	.5432467	01	.8170369	04-	.2316400	03	.2703034-	02	.2832380-	02
.6900000	05	.4699659	01	.7103401	04-	.2304932	03	.2678621-	02	.2896599-	02
.7000000	05	.4062947	01	.6171734	04-	.2293465	03	.2640216-	02	.2949410-	02
.7100000	05	.3509067	01	.5378709	04-	.2272855	03	.2589119-	02	.2963672-	02
.7200000	05	.3024503	01	.4726443	04-	.2229347	03	.2532330-	02	.2902492-	02
.7300000	05	.2599351	01	.4142902	04-	.2185840	03	.2475268-	02	.2840523-	02
.7400000	05	.2227275	01	.3621972	04-	.2142333	03	.2417993-	02	.2777866-	02
.7500000	05	.1903960	01	.3129858	04-	.2119295	03	.2354802-	02	.2780028-	02
.7600000	05	.1627424	01	.2651350	04-	.2138414	03	.2266930-	02	.2903237-	02
.7700000	05	.1393065	01	.2249427	04-	.2157533	03	.2140678-	02	.2992438-	02
.7800000	05	.1194149	01	.1911294	04-	.2176653	03	.1973188-	02	.3049840-	02
.7900000	05	.1023881	01	.1649149	04-	.2162957	03	.1770765-	02	.2979358-	02
.8000000	05	.8760003	00	.1442628	04-	.2115475	03	.1549292-	02	.2783249-	02
.8100000	05	.7468655	00	.1258205	04-	.2067993	03	.1336068-	02	.2429573-	02
.8200000	05	.6344444	00	.1093932	04-	.2020512	03	.1150292-	02	.2084427-	02
.8300000	05	.5391132	00	.9053259	05-	.2074594	03	.9581169-	01	.2127600-	02
.8400000	05	.4604489	00	.7454645	05-	.2151853	03	.7152576-	01	.2204699-	02
.8500000	05	.3954757	00	.6180819	05-	.2229112	03	.4127091-	01	.2230271-	02
.8600000	05	.3409115	00	.5260735	05-	.2257633	03	.6465522-	00	.2049666-	02
.8700000	05	.2942744	00	.4518270	05-	.2269021	03	.3095019	01	.1790935-	02
.8800000	05	.2539846	00	.3928592	05-	.2252312	03	.6958903	01	.1420413-	02
.8900000	05	.2180118	00	.3604958	05-	.2106871	03	.1035219	02	.5381685-	01
.9000000	05	.1851093	00	.3287862	05-	.1961430	03	.1261061	02	.3718047	01
.9100000	05	.1561574	00	.2791285	05-	.1949020	03	.1400013	02	.7439793	01
.9200000	05	.1318488	00	.2319349	05-	.1980470	03	.1516185	02	.8532938	01

FIGURE 34
13 OCTOBER 1965, 1651 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
229.974	10.379	1.174	262.683	.515	44126.850
255.388	21.769	1.096	264.997	.623	[illegible]73.300
257.346	35.193	1.209	258.377	.634	53774.800
254.042	36.356	1.098	247.514	.457	59459.150
239.980	44.545	1.924	231.941	.660	65041.750
250.218	68.873	1.583	219.325	.435	70210.350
282.934	37.771	2.307	198.457	.552	75447.490
106.367	43.723	2.085	185.056	.525	77987.890
150.035	38.916	2.288	197.014	.564	84464.340
258.369	25.561	3.647	205.786	.901	88702.140



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
45000.000	6.470	10.217
50000.000	5.890	23.450
55000.000	6.861	34.731
60000.000	5.567	36.393
65000.000	22.148	38.552
70000.000	23.268	63.741
75000.000	- 5.740	39.205
80000.000	12.380	- 41.889
85000.000	29.967	- 13.142

LEGEND

5 m/sec or less

10 m/sec

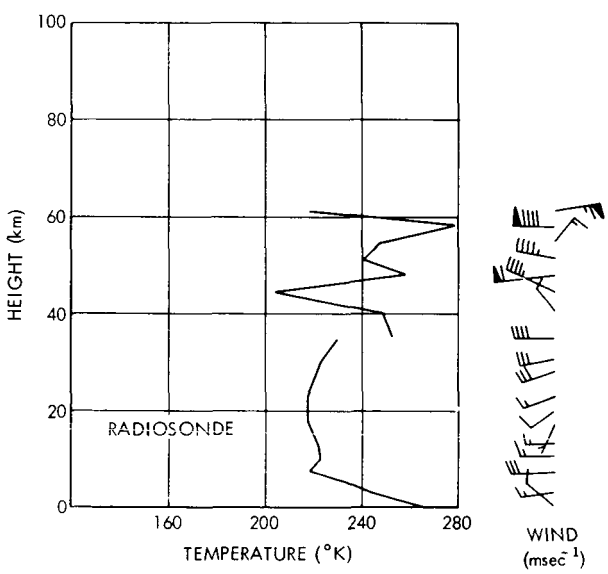
50 m/sec

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	.9017325	03	.1380172	01-	.2276159	03	.1425039	01	.1820170	01
.3300000	05	.7780367	03	.1175907	01-	.2305075	03	.1398226	01	.1607825	01
.3400000	05	.6725755	03	.1003922	01-	.2333992	03	.1381270	01	.1535466	01
.3500000	05	.5824792	03	.8587992	02-	.2362909	03	.1372490	01	.1472131	01
.3600000	05	.5053575	03	.7360841	02-	.2391825	03	.1371161	01	.1418343	01
.3700000	05	.4392152	03	.6321017	02-	.2420742	03	.1377309	01	.1371466	01
.3800000	05	.3823826	03	.5438143	02-	.2449659	03	.1390623	01	.1333138	01
.3900000	05	.3334599	03	.4687050	02-	.2478575	03	.1410772	01	.1304409	01
.4000000	05	.2912709	03	.4046837	02-	.2507492	03	.1437597	01	.1279814	01
.4100000	05	.2548251	03	.3500106	02-	.2536409	03	.1470199	01	.1264516	01
.4200000	05	.2232870	03	.3032350	02-	.2565325	03	.1509341	01	.1253832	01
.4300000	05	.1959502	03	.2631439	02-	.2594242	03	.1554380	01	.1252048	01
.4400000	05	.1722161	03	.2287217	02-	.2623158	03	.1604830	01	.1253589	01
.4500000	05	.1514993	03	.2006208	02-	.2630830	03	.1608507	01	.2029616	01
.4600000	05	.1333199	03	.1762399	02-	.2635415	03	.1507465	01	.2817731	01
.4700000	05	.1173526	03	.1548627	02-	.2640000	03	.1296116	01	.3483265	01
.4800000	05	.1033247	03	.1361146	02-	.2644585	03	.1005620	01	.3375585	01
.4900000	05	.9099720	02	.1196675	02-	.2649170	03	.7311531	00	.2913257	01
.5000000	05	.8013092	02	.1058209	02-	.2638072	03	.4411103	00	.3048927	01
.5100000	05	.7052161	02	.9364150	03-	.2623686	03	.9027543	01-	.3254514	01
.5200000	05	.6202354	02	.8281147	03-	.2609301	03	.3290489-	00	.3388997	01
.5300000	05	.5451299	02	.7318717	03-	.2594915	03	.8025067-	00	.3038453	01
.5400000	05	.4787820	02	.6466454	03-	.2579466	03	.1265162-	01	.2419411	01
.5500000	05	.4201595	02	.5717050	03-	.2560356	03	.1720743-	01	.1953649	01
.5600000	05	.3683693	02	.5050041	03-	.2541246	03	.2178247-	01	.1483896	01
.5700000	05	.3226556	02	.4456859	03-	.2522136	03	.2637725-	01	.1014475	01
.5800000	05	.2823420	02	.3929781	03-	.2503026	03	.3099454-	01	.5419048	00
.5900000	05	.2468230	02	.3461839	03-	.2483916	03	.3562908-	01	.7051751	01-
.6000000	05	.2155294	02	.3052249	03-	.2460054	03	.4041136-	01	.2272024-	00
.6100000	05	.1879415	02	.2692087	03-	.2432157	03	.4558034-	01	.3963604-	00
.6200000	05	.1636331	02	.2371088	03-	.2404261	03	.5116586-	01	.9198093-	00
.6300000	05	.1422448	02	.2085363	03-	.2376364	03	.5644407-	01	.1874514-	01
.6400000	05	.1234533	02	.1831371	03-	.2348468	03	.6121997-	01	.2777989-	01
.6500000	05	.1069678	02	.1605892	03-	.2320571	03	.6548129-	01	.3636835-	01
.6600000	05	.9253706	01	.1404102	03-	.2296017	03	.6910623-	01	.4567213-	01
.6700000	05	.7993252	01	.1225881	03-	.2271608	03	.7196026-	01	.5439604-	01
.6800000	05	.6893889	01	.1068761	03-	.2247200	03	.7400317-	01	.6240760-	01
.6900000	05	.5936401	01	.9304282	04-	.2222791	03	.7519577-	01	.6957177-	01
.7000000	05	.5103705	01	.8087989	04-	.2198382	03	.7549444-	01	.7602788-	01
.7100000	05	.4378740	01	.7056595	04-	.2161783	03	.7524349-	01	.7686929-	01
.7200000	05	.3746676	01	.6151369	04-	.2121937	03	.7492443-	01	.7627382-	01
.7300000	05	.3196547	01	.5348593	04-	.2082091	03	.7464736-	01	.7569330-	01
.7400000	05	.2718975	01	.4638264	04-	.2042245	03	.7441664-	01	.7514015-	01
.7500000	05	.2305509	01	.4011199	04-	.2002399	03	.7424158-	01	.7469447-	01
.7600000	05	.1949022	01	.3449785	04-	.1968262	03	.7387884-	01	.7660994-	01
.7700000	05	.1643242	01	.2952830	04-	.1938747	03	.7292421-	01	.8011522-	01
.7800000	05	.1381887	01	.2521575	04-	.1909233	03	.7112517-	01	.8306372-	01
.7900000	05	.1159031	01	.2148130	04-	.1879718	03	.6845241-	01	.8551295-	01
.8000000	05	.9694995	00	.1824842	04-	.1850890	03	.6473124-	01	.8712269-	01
.8100000	05	.8109387	00	.1504384	04-	.1877965	03	.5927940-	01	.9483492-	01
.8200000	05	.6800835	00	.1243702	04-	.1905040	03	.5136836-	01	.1000707-	02
.8300000	05	.5717923	00	.1031012	04-	.1932114	03	.4100309-	01	.1034680-	02
.8400000	05	.4819318	00	.8569735	05-	.1959189	03	.2820638-	01	.1038654-	02
.8500000	05	.4071002	00	.7154697	05-	.1982294	03	.1309048-	01	.1006037-	02
.8600000	05	.3445401	00	.5993506	05-	.2002705	03	.4109685	00	.9422597-	01
.8700000	05	.2921025	00	.5030055	05-	.2023116	03	.2334132	01	.8610919-	01
.8800000	05	.2480690	00	.4229124	05-	.2043526	03	.4467706	01	.7640879-	01

FIGURE 35
19 OCTOBER 1965, 1730 GMT, BARROW

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
267.725	42.255	4.816	252.136	2.038	34834.250
327.265	12.435	4.918	247.770	2.242	40623.150
296.479	43.060	9.097	202.752	3.051	44771.440
257.028	61.554	17.175	258.495	6.263	48166.850
291.793	47.461	13.550	240.327	5.294	51625.500
37.343	16.671	74.192	247.467	19.960	54966.050
272.732	91.486	76.687	278.423	25.360	58249.200
77.813	64.904	37.938	218.456	14.146	61463.950



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.000	1.330	41.205
40000.000	- 9.154	10.546
45000.000	- 16.977	39.986
50000.000	- 2.845	51.549
55000.000	- 13.161	- 9.063
60000.000	- 9.448	7.063

LEGEND

5 m/sec or less

10 m/sec

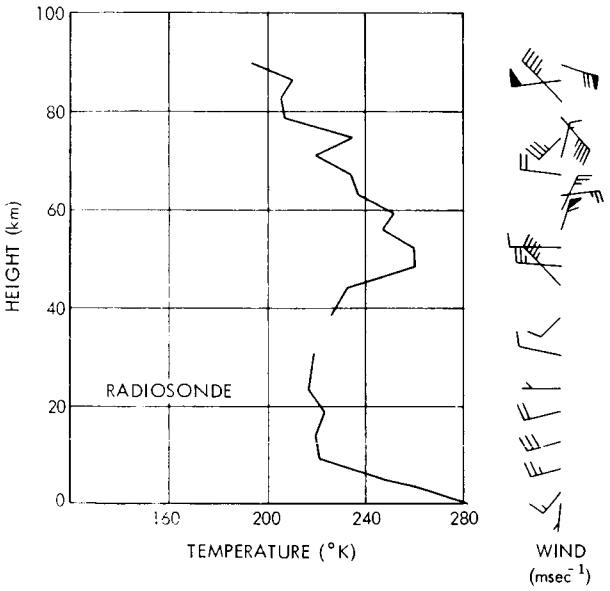
50 m/sec

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 (%)	
.3300000	05	.6601943	03	.1014972	01-	.2266084	03	.1395968-	02	.1229830-	02
.3400000	05	.5710306	03	.8270968	02-	.2405255	03	.1392520-	02	.1634840-	02
.3500000	05	.4976480	03	.6879568	02-	.2520109	03	.1339121-	02	.1871389-	02
.3600000	05	.4349981	03	.6031537	02-	.2512566	03	.1274243-	02	.1689692-	02
.3700000	05	.3800978	03	.5286176	02-	.2505024	03	.1226785-	02	.1522450-	02
.3800000	05	.3320048	03	.4631271	02-	.2497482	03	.1196728-	02	.1370194-	02
.3900000	05	.2898906	03	.4056052	02-	.2489939	03	.1183938-	02	.1233378-	02
.4000000	05	.2530251	03	.3550999	02-	.2482397	03	.1188184-	02	.1112948-	02
.4100000	05	.2205324	03	.3152903	02-	.2436801	03	.1218501-	02	.8780715-	01
.4200000	05	.1913643	03	.2863413	02-	.2328280	03	.1300316-	02	.4387172-	01
.4300000	05	.1649409	03	.2588694	02-	.2219759	03	.1451668-	02	.3927097-	00
.4400000	05	.1411177	03	.2328640	02-	.2111239	03	.1674273-	02	.3087364	01
.4500000	05	.1200491	03	.2025291	02-	.2065045	03	.1948474-	02	.3000085	01
.4600000	05	.1025784	03	.1603105	02-	.2229216	03	.2189857-	02	.6475412-	01
.4700000	05	.8863981	02	.1290250	02-	.2393388	03	.2348810-	02	.1378216-	02
.4800000	05	.7734454	02	.1053567	02-	.2557559	03	.2439144-	02	.1998429-	02
.4900000	05	.6776182	02	.9289811	03-	.2541185	03	.2498971-	02	.2010825-	02
.5000000	05	.5926112	02	.8295894	03-	.2488655	03	.2571840-	02	.1921418-	02
.5100000	05	.5168103	02	.7390769	03-	.2436125	03	.2664988-	02	.1850512-	02
.5200000	05	.4497426	02	.6497943	03-	.2411272	03	.2772699-	02	.1887405-	02
.5300000	05	.3913568	02	.5604696	03-	.2432646	03	.2878465-	02	.2109283-	02
.5400000	05	.3409797	02	.4840706	03-	.2454020	03	.2968287-	02	.2333013-	02
.5500000	05	.2974756	02	.4182453	03-	.2477869	03	.3041768-	02	.2541322-	02
.5600000	05	.2603589	02	.3526413	03-	.2572156	03	.3086081-	02	.2913441-	02
.5700000	05	.2289785	02	.2991717	03-	.2666443	03	.3090508-	02	.3219290-	02
.5800000	05	.2022890	02	.2552739	03-	.2760730	03	.3057388-	02	.3468918-	02
.5900000	05	.1786248	02	.2353476	03-	.2644174	03	.3020887-	02	.3196865-	02
.6000000	05	.1565678	02	.2219438	03-	.2457637	03	.3029223-	02	.2745038-	02
.6100000	05	.1358195	02	.2083455	03-	.2271100	03	.3102703-	02	.2291493-	02

FIGURE 36
19 OCTOBER 1965, 1730 GMT, CHURCHILL

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
237.223	10.211	9.343	225.514	5.218	37994.900
325.748	47.494		232.414		44081.250
275.344	26.416		260.452		48656.750
264.073	10.521	12.767	259.377	4.183	52451.000
14.673	59.895	9.813	246.068	2.802	56147.750
30.458	27.101	10.504	251.273	3.193	59756.150
73.622	25.032	10.087	237.229	2.449	63259.350
275.491	21.385	6.822	233.919	1.919	67212.390
13.898	16.187	12.907	219.017	3.465	71056.590
236.355	36.187		235.712		74745.540
134.560	42.568		207.211		78812.050
312.716	46.931	174.991	204.978	35.123	82749.300
263.831	47.957	52.563	209.997	13.485	86522.150
117.800	67.991		194.462		89666.850



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.000	- 9.226	14.563
45000.000	- 31.868	26.645
50000.000	- 1.205	20.695
55000.000	- 39.615	- 7.212
60000.000	- 22.227	- 14.453
65000.000	- 4.851	- 4.068
70000.000	- 11.957	3.031
75000.000	20.664	26.342
80000.000	11.251	- 10.775
85000.000	- 9.770	42.354

LEGEND

5 m/sec or less

10 m/sec

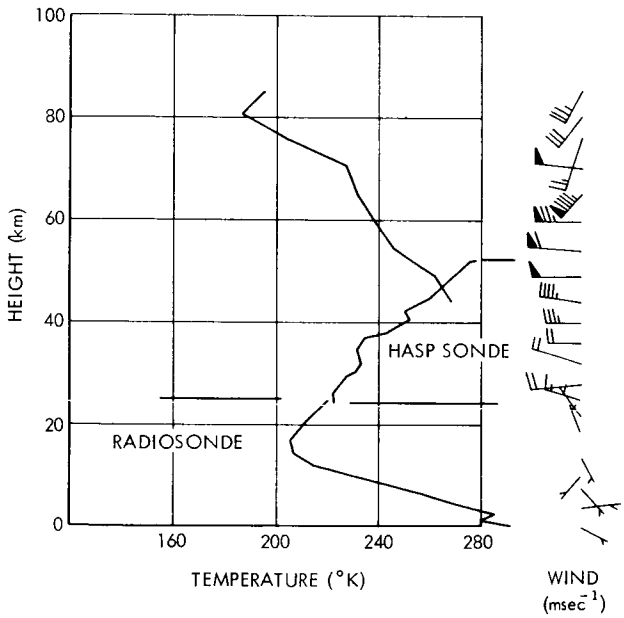
50 m/sec

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 (%)	
.3000000	05	.1156791	04	.1846373	01-	.2182698	03	.3361582-	01	.2918414	00
.3100000	05	.9907911	03	.1574880	01-	.2191759	03	.3924217-	01	.2735465-	00
.3200000	05	.8491965	03	.1344256	01-	.2200820	03	.4484112-	01	.8295264-	00
.3300000	05	.7283334	03	.1148205	01-	.2209880	03	.5079396-	01	.7858422-	00
.3400000	05	.6250949	03	.9814276	02-	.2218941	03	.5775768-	01	.7395648-	00
.3500000	05	.5368495	03	.8394503	02-	.2228002	03	.6568742-	01	.8140517-	00
.3600000	05	.4613688	03	.7185022	02-	.2237063	03	.7452670-	01	.1004105-	01
.3700000	05	.3967622	03	.6153960	02-	.2246124	03	.8421461-	01	.1307668-	01
.3800000	05	.3414258	03	.5274363	02-	.2255197	03	.9469263-	01	.1718702-	01
.3900000	05	.2940203	03	.4519323	02-	.2266533	03	.1058347-	02	.2320798-	01
.4000000	05	.2533973	03	.3875531	02-	.2277870	03	.1175223-	02	.3007465-	01
.4100000	05	.2185584	03	.3326141	02-	.2289207	03	.1297107-	02	.3768631-	01
.4200000	05	.1886558	03	.2856919	02-	.2300543	03	.1423449-	02	.4604003-	01
.4300000	05	.1629696	03	.2455837	02-	.2311880	03	.1553835-	02	.5504762-	01
.4400000	05	.1408879	03	.2112721	02-	.2323217	03	.1687834-	02	.6471258-	01
.4500000	05	.1220615	03	.1786406	02-	.2380437	03	.1813502-	02	.9148855-	01
.4600000	05	.1061288	03	.1514246	02-	.2441715	03	.1919538-	02	.1165942-	02
.4700000	05	.9260021	02	.1288874	02-	.2502993	03	.2006957-	02	.1387411-	02
.4800000	05	.8106645	02	.1101375	02-	.2564271	03	.2075305-	02	.1635335-	02
.4900000	05	.7115637	02	.9521538	03-	.2603543	03	.2123205-	02	.1811542-	02
.5000000	05	.6251718	02	.8374629	03-	.2600710	03	.2163705-	02	.1844745-	02
.5100000	05	.5492132	02	.7365133	03-	.2597877	03	.2205097-	02	.1878780-	02
.5200000	05	.4824365	02	.6476698	03-	.2595043	03	.2247314-	02	.1913931-	02
.5300000	05	.4235425	02	.5732529	03-	.2574002	03	.2292781-	02	.1929310-	02
.5400000	05	.3713130	02	.5096903	03-	.2538002	03	.2342751-	02	.1927233-	02
.5500000	05	.3249263	02	.4524340	03-	.2502002	03	.2399670-	02	.1931626-	02
.5600000	05	.2837971	02	.4009337	03-	.2466003	03	.2463670-	02	.1942974-	02
.5700000	05	.2476882	02	.3489344	03-	.2472975	03	.2525936-	02	.2091421-	02
.5800000	05	.2163096	02	.3029624	03-	.2487397	03	.2576196-	02	.2248825-	02
.5900000	05	.1890621	02	.2632732	03-	.2501819	03	.2613088-	02	.2389628-	02
.6000000	05	.1653241	02	.2301137	03-	.2502949	03	.2639372-	02	.2477978-	02
.6100000	05	.1444190	02	.2042880	03-	.2462860	03	.2665995-	02	.2441617-	02
.6200000	05	.1258831	02	.1810145	03-	.2422771	03	.2700607-	02	.2435984-	02
.6300000	05	.1094798	02	.1600759	03-	.2382683	03	.2737850-	02	.2467724-	02
.6400000	05	.9505982	01	.1399668	03-	.2366084	03	.2771336-	02	.2569582-	02
.6500000	05	.8248114	01	.1218771	03-	.2357711	03	.2794078-	02	.2686639-	02
.6600000	05	.7153396	01	.1060779	03-	.2349338	03	.2803909-	02	.2790192-	02
.6700000	05	.6201097	01	.9228514	04-	.2340965	03	.2800347-	02	.2881430-	02
.6800000	05	.5369087	01	.8102137	04-	.2308655	03	.2788166-	02	.2892239-	02
.6900000	05	.4638531	01	.7119240	04-	.2269891	03	.2773850-	02	.2880760-	02
.7000000	05	.3997480	01	.6241949	04-	.2231127	03	.2758805-	02	.2869195-	02
.7100000	05	.3436215	01	.5460421	04-	.2192362	03	.2742977-	02	.2856778-	02
.7200000	05	.2954068	01	.4609103	04-	.2232864	03	.2706238-	02	.3078698-	02
.7300000	05	.2546998	01	.3895023	04-	.2278121	03	.2626821-	02	.3268891-	02
.7400000	05	.2202536	01	.3302641	04-	.2323377	03	.2502210-	02	.3414605-	02
.7500000	05	.1908386	01	.2842114	04-	.2339284	03	.2337030-	02	.3443796-	02
.7600000	05	.1650792	01	.2534417	04-	.2269198	03	.2155896-	02	.3216229-	02
.7700000	05	.1421552	01	.2252026	04-	.2199112	03	.1979962-	02	.2984341-	02
.7800000	05	.1218290	01	.1993553	04-	.2129027	03	.1810916-	02	.2750717-	02
.7900000	05	.1039246	01	.1748181	04-	.2071048	03	.1647274-	02	.2557763-	02
.8000000	05	.8844017	00	.1491794	04-	.2065375	03	.1468245-	02	.2537299-	02
.8100000	05	.7523325	00	.1272517	04-	.2059703	03	.1272648-	02	.2343461-	02
.8200000	05	.6397317	00	.1085049	04-	.2054030	03	.1076541-	02	.2148707-	02
.8300000	05	.5438635	00	.9228580	05-	.2053115	03	.8784458-	01	.1975147-	02
.8400000	05	.4626168	00	.7799406	05-	.2066417	03	.6715427-	01	.1844184-	02
.8500000	05	.3939356	00	.6599006	05-	.2079720	03	.4500454-	01	.1704580-	02
.8600000	05	.3358116	00	.5589589	05-	.2093023	03	.2132830-	01	.1552682-	02
.8700000	05	.2862406	00	.4802707	05-	.2076363	03	.2804826	00	.1274152-	02
.8800000	05	.2433711	00	.4182935	05-	.2026964	03	.2489321	01	.8649576-	01
.8900000	05	.2061060	00	.3630931	05-	.1977565	03	.4325772	01	.4699975-	01

FIGURE 37
19 OCTOBER 1965, 2310 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
283.851	44.587	.857	269.385	.754	43855.250
268.547	50.738	1.100	262.199	.879	49123.350
274.438	58.343	1.372	246.175	.848	54130.950
267.745	75.035	1.339	238.048	.695	59925.300
236.944	93.801	2.767	231.627	1.319	65126.500
279.223	50.274	2.141	227.696	.854	70488.950
203.417	27.493	3.670	203.601	1.308	75991.000
229.623	28.683	3.813	186.547	1.292	80588.350
217.326	37.421	5.036	195.373	1.712	85351.300



HEIGHT meters	WIND COMPONENTS m/sec SOUTH component (+)	WEST component (+)
45000.000	- 8.395	32.280
50000.000	- .945	4.095
55000.000	- 3.395	60.689
60000.000	3.644	75.029
65000.000	49.993	78.529
70000.000	- 2.657	52.267
75000.000	19.234	17.896
80000.000	19.432	20.453
85000.000	28.933	22.628

LEGEND

5 m/sec or less

10 m/sec

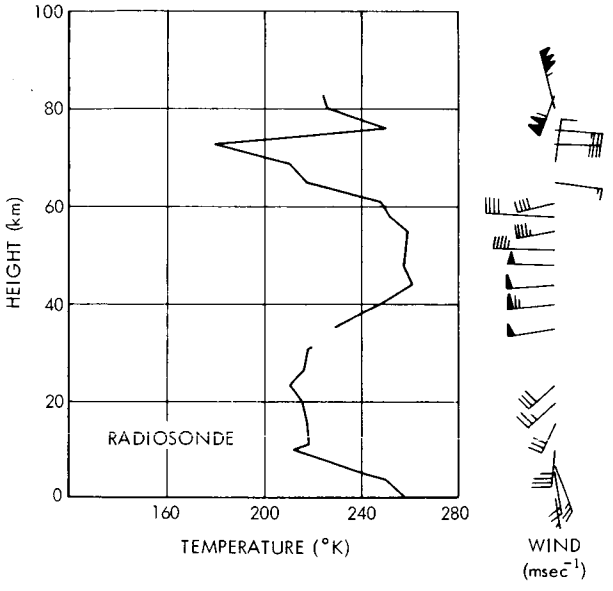
50 m/sec

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 (%)	
.2400000	05	.2974782	04	.4723691	01-	.2193976	03	.1023640	00	.6368184	00
.2500000	05	.2551352	04	.4005360	01-	.2219152	03	.8361741	01-	.7583667-	01-
.2600000	05	.2192090	04	.3402753	01-	.2244327	03	.1700105	00	.6698389-	00
.2700000	05	.1886697	04	.2896207	01-	.2269503	03	.3578470	00	.1146584-	01
.2800000	05	.1626615	04	.2469569	01-	.2294679	03	.6450763	00	.1516619-	01
.2900000	05	.1404722	04	.2109541	01-	.2319854	03	.1028636	01	.1781325-	01
.3000000	05	.1215075	04	.1805148	01-	.2345030	03	.1507485	01	.1947420-	01
.3100000	05	.1052708	04	.1547319	01-	.2370206	03	.2079774	01	.2018792-	01
.3200000	05	.9134611	03	.1328536	01-	.2395382	03	.2744238	01	.1989203-	01
.3300000	05	.7938443	03	.1142558	01-	.2420557	03	.3458365	01	.1273859-	01
.3400000	05	.6909242	03	.9841911	02-	.2445733	03	.4147067	01	.4600569-	00
.3500000	05	.6022288	03	.8491079	02-	.2470909	03	.4809631	01	.3270534	00
.3600000	05	.5256734	03	.7336937	02-	.2496085	03	.5446385	01	.1089000	01
.3700000	05	.4594956	03	.6349240	02-	.2521261	03	.6058335	01	.1824088	01
.3800000	05	.4022031	03	.5502635	02-	.2546436	03	.6646125	01	.2534863	01
.3900000	05	.3525301	03	.4775831	02-	.2571612	03	.7210356	01	.3223296	01
.4000000	05	.3094016	03	.4150919	02-	.2596787	03	.7751750	01	.3884659	01
.4100000	05	.2719023	03	.3612804	02-	.2621963	03	.8270245	01	.4525075	01
.4200000	05	.2392527	03	.3148750	02-	.2647139	03	.8767544	01	.5140598	01
.4300000	05	.2107870	03	.2747985	02-	.2672315	03	.9243797	01	.5736463	01
.4400000	05	.1859117	03	.2406083	02-	.2691872	03	.9685040	01	.6515702	01
.4500000	05	.1640010	03	.2133323	02-	.2678231	03	.9993242	01	.8494297	01
.4600000	05	.1445856	03	.1890396	02-	.2664590	03	.1008498	02	.1028506	02
.4700000	05	.1273914	03	.1674159	02-	.2650949	03	.9961394	01	.1187164	02
.4800000	05	.1121731	03	.1481787	02-	.2637309	03	.9655395	01	.1253795	02
.4900000	05	.9871153	02	.1310742	02-	.2623668	03	.9270694	01	.1272291	02
.5000000	05	.8677662	02	.1165472	02-	.2593934	03	.8771244	01	.1349423	02
.5100000	05	.7617017	02	.1035797	02-	.2561936	03	.8107203	01	.1421298	02
.5200000	05	.6675339	02	.9192246	03-	.2529937	03	.7271754	01	.1476396	02
.5300000	05	.5840503	02	.8145665	03-	.2497939	03	.6279860	01	.1468085	02
.5400000	05	.5101495	02	.7207306	03-	.2465941	03	.5203477	01	.1415346	02
.5500000	05	.4450259	02	.6329290	03-	.2449562	03	.4095742	01	.1287189	02
.5600000	05	.3879025	02	.5548634	03-	.2435537	03	.3008861	01	.1150346	02
.5700000	05	.3378577	02	.4860776	03-	.2421511	03	.1949554	01	.1016921	02
.5800000	05	.2940462	02	.4255103	03-	.2407486	03	.9174647	00	.8865141	01
.5900000	05	.2557195	02	.3722166	03-	.2393460	03	.8694563-	01-	.7595709	01
.6000000	05	.2222163	02	.3253399	03-	.2379560	03	.1063960-	01	.6348025	01
.6100000	05	.1929610	02	.2839816	03-	.2367215	03	.2008946-	01	.5069394	01
.6200000	05	.1674411	02	.2477157	03-	.2354869	03	.2908453-	01	.3512489	01
.6300000	05	.1451945	02	.2159357	03-	.2342524	03	.3687772-	01	.1607236	01
.6400000	05	.1258144	02	.1881046	03-	.2330178	03	.4326526-	01	.1408609-	00
.6500000	05	.1089430	02	.1637478	03-	.2317832	03	.4822528-	01	.1741497-	01
.6600000	05	.9427866	01	.1421950	03-	.2309868	03	.5158628-	01	.3354141-	01
.6700000	05	.8155279	01	.1233929	03-	.2302538	03	.5314846-	01	.4818790-	01
.6800000	05	.7051525	01	.1070334	03-	.2295208	03	.5282926-	01	.6102837-	01
.6900000	05	.6094598	01	.9280479	04-	.2287878	03	.5055109-	01	.7195209-	01
.7000000	05	.5265300	01	.8043446	04-	.2280548	03	.4622241-	01	.8111661-	01
.7100000	05	.4544169	01	.7021769	04-	.2254583	03	.4030612-	01	.8142521-	01
.7200000	05	.3912960	01	.6166183	04-	.2210788	03	.3386795-	01	.7404929-	01
.7300000	05	.3359522	01	.5401046	04-	.2166994	03	.2746872-	01	.6662866-	01
.7400000	05	.2875532	01	.4718299	04-	.2123200	03	.2112214-	01	.5918138-	01
.7500000	05	.2453421	01	.4110466	04-	.2079406	03	.1484851-	01	.5179567-	01
.7600000	05	.2086321	01	.3570521	04-	.2035672	03	.8637902-	00	.4429308-	01
.7700000	05	.1768492	01	.3082763	04-	.1998578	03	.2261446-	00	.3963765-	01
.7800000	05	.1494523	01	.2654460	04-	.1961483	03	.4586316	00	.3474184-	01
.7900000	05	.1259011	01	.2279265	04-	.1924389	03	.1190416	01	.2968701-	01
.8000000	05	.1057135	01	.1951411	04-	.1887295	03	.1980995	01	.2380611-	01
.8100000	05	.8855677	00	.1647098	04-	.1873098	03	.2729323	01	.8966458-	00
.8200000	05	.7420375	00	.1366621	04-	.1891628	03	.3504968	01	.1112775-	01
.8300000	05	.6228764	00	.1136032	04-	.1910158	03	.4467399	01	.1214555-	01
.8400000	05	.5237632	00	.9460874	05-	.1928688	03	.5614467	01	.1067912-	01
.8500000	05	.4411752	00	.7893231	05-	.1947217	03	.6951555	01	.7764833-	00

FIGURE 38
23 OCTOBER 1965, 1538 GMT, BARROW

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
253.798	49.652	2.549	229.121	.694	34575.200
263.199	63.368	3.031	248.368	.950	40217.250
265.280	51.715	4.009	261.208	1.360	44479.400
273.118	47.619	5.674	257.870	1.913	48013.350
272.358	42.626	6.735	258.641	2.267	51446.150
253.162	43.938	9.664	259.091	3.129	54807.850
282.472	38.748	8.439	252.228	2.870	58065.950
253.798	38.669	10.692	248.075	3.383	61235.950
100.114	13.115	8.389	217.228	2.305	64826.290
16.142	11.146	10.708	209.806	4.181	68788.040
95.648	42.074	22.387	179.714	4.956	72611.240
99.069	34.973	28.009	250.113	7.828	76286.890
332.349	156.151		225.748		79810.590
212.657	108.772		224.349		82764.490



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.000	13.376	48.828
40000.000	7.748	62.335
45000.000	3.247	50.952
50000.000	- 2.106	44.679
55000.000	11.483	41.806
60000.000	3.320	37.407
65000.000	1.733	- 12.481
70000.000	- 6.000	- 15.389
75000.000	5.032	- 37.104
80000.000	-125.576	71.584

LEGEND

5 m/sec or less

10 m/sec

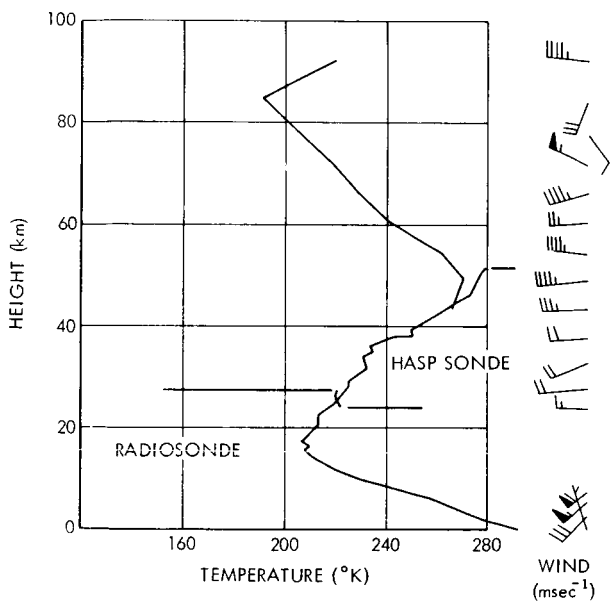
50 m/sec

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 (%)	
.3000000	05	.1029721	04	.1651604	01-	.2172060	03	.1397701-	02	.1028766-	02
.3100000	05	.8816997	03	.1397433	01-	.2198101	03	.1450267-	02	.1151003-	02
.3200000	05	.7563735	03	.1184764	01-	.2224143	03	.1492465-	02	.1259580-	02
.3300000	05	.6500513	03	.1006439	01-	.2250184	03	.1528158-	02	.1303555-	02
.3400000	05	.5596753	03	.8566017	02-	.2276226	03	.1563684-	02	.1336430-	02
.3500000	05	.4827611	03	.7294377	02-	.2305697	03	.1598207-	02	.1381267-	02
.3600000	05	.4172791	03	.6213036	02-	.2339812	03	.1629674-	02	.1439621-	02
.3700000	05	.3614572	03	.5304540	02-	.2373927	03	.1657037-	02	.1492999-	02
.3800000	05	.3137590	03	.4539315	02-	.2408041	03	.1680526-	02	.1541542-	02
.3900000	05	.2729097	03	.3893172	02-	.2442156	03	.1700357-	02	.1585422-	02
.4000000	05	.2378487	03	.3346268	02-	.2476271	03	.1716716-	02	.1625327-	02
.4100000	05	.2076736	03	.2885624	02-	.2507262	03	.1730534-	02	.1651360-	02
.4200000	05	.1816326	03	.2493821	02-	.2537386	03	.1742735-	02	.1672828-	02
.4300000	05	.1591149	03	.2159021	02-	.2567510	03	.1753610-	02	.1692556-	02
.4400000	05	.1396099	03	.1872391	02-	.2597633	03	.1763233-	02	.1711049-	02
.4500000	05	.1226231	03	.1638564	02-	.2607157	03	.1775834-	02	.1666766-	02
.4600000	05	.1077077	03	.1444487	02-	.2597712	03	.1799325-	02	.1572910-	02
.4700000	05	.9456557	02	.1272864	02-	.2588267	03	.1837311-	02	.1494392-	02
.4800000	05	.8299090	02	.1121159	02-	.2578822	03	.1887181-	02	.1485083-	02
.4900000	05	.7282278	02	.9829968	03-	.2580913	03	.1938738-	02	.1546295-	02
.5000000	05	.6390998	02	.8619372	03-	.2583159	03	.1989122-	02	.1606414-	02
.5100000	05	.5609656	02	.7559021	03-	.2585406	03	.2038298-	02	.1664988-	02
.5200000	05	.4924549	02	.6631366	03-	.2587150	03	.2086319-	02	.1720830-	02
.5300000	05	.4323619	02	.5819146	03-	.2588489	03	.2132295-	02	.1807364-	02
.5400000	05	.3796428	02	.5106961	03-	.2589827	03	.2170974-	02	.1911303-	02
.5500000	05	.3333498	02	.4489370	03-	.2586861	03	.2202635-	02	.1993991-	02
.5600000	05	.2925367	02	.3972066	03-	.2565796	03	.2231587-	02	.2017873-	02
.5700000	05	.2564546	02	.3510968	03-	.2544731	03	.2261407-	02	.2042411-	02
.5800000	05	.2245864	02	.3100343	03-	.2523666	03	.2292133-	02	.2067893-	02
.5900000	05	.1965067	02	.2727437	03-	.2510040	03	.2322218-	02	.2115866-	02
.6000000	05	.1718223	02	.2397340	03-	.2496940	03	.2350055-	02	.2163505-	02
.6100000	05	.1501390	02	.2105853	03-	.2483840	03	.2375520-	02	.2208624-	02
.6200000	05	.1309012	02	.1888278	03-	.2415104	03	.2409633-	02	.2109489-	02
.6300000	05	.1136237	02	.1699506	03-	.2329187	03	.2462972-	02	.2003075-	02
.6400000	05	.9810777	01	.1523632	03-	.2243270	03	.2539559-	02	.1911493-	02
.6500000	05	.8426462	01	.1353440	03-	.2169023	03	.2638265-	02	.1878544-	02
.6600000	05	.7214260	01	.1168834	03-	.2150290	03	.2742682-	02	.2055770-	02
.6700000	05	.6168354	01	.1008163	03-	.2131556	03	.2838363-	02	.2223364-	02
.6800000	05	.5267050	01	.8684858	04-	.2112822	03	.2925225-	02	.2381035-	02
.6900000	05	.4489165	01	.7514038	04-	.2081375	03	.3006539-	02	.2485962-	02
.7000000	05	.3809839	01	.6627602	04-	.2002665	03	.3098706-	02	.2428627-	02
.7100000	05	.3212277	01	.5816694	04-	.1923955	03	.3215916-	02	.2390709-	02
.7200000	05	.2689354	01	.5077525	04-	.1845245	03	.3359833-	02	.2375287-	02
.7300000	05	.2246106	01	.4180966	04-	.1871595	03	.3497859-	02	.2774745-	02
.7400000	05	.1894565	01	.3199206	04-	.2063125	03	.3550593-	02	.3620852-	02
.7500000	05	.1622470	01	.2507003	04-	.2254654	03	.3485103-	02	.4216833-	02
.7600000	05	.1407201	01	.2004126	04-	.2446184	03	.3313372-	02	.4635636-	02
.7700000	05	.1227652	01	.1744394	04-	.2451822	03	.3073893-	02	.4565750-	02
.7800000	05	.1069130	01	.1563232	04-	.2382677	03	.2813540-	02	.4315520-	02
.7900000	05	.9273337	00	.1396429	04-	.2313531	03	.2546747-	02	.4055219-	02
.8000000	05	.8012310	00	.1236984	04-	.2256586	03	.2270586-	02	.3811986-	02
.8100000	05	.6909289	00	.1068937	04-	.2251850	03	.1984954-	02	.3568370-	02
.8200000	05	.5956541	00	.9234793	05-	.2247114	03	.1691368-	02	.3317805-	02

FIGURE 39
23 OCTOBER 1965, 1614 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
263.647	35.111	.955	265.645	.478	43605.100
256.999	46.848	1.328	270.529	.524	49310.700
282.903	46.768	2.410	262.273	.767	54388.700
265.523	22.545	1.749	241.535	.539	60370.600
249.370	46.629	2.402	229.490	.672	66164.600
296.258	56.146	1.121	218.755	.334	71873.690
148.713	11.378	2.323	206.467	.652	77684.100
203.250	28.678	1.369	190.632	.316	84891.650
279.597	47.386	2.482	220.274	.886	92282.600



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
45000.000	5.503	37.446
50000.000	7.691	45.639
55000.000	- 9.196	43.225
60000.000	1.004	23.908
65000.000	13.480	39.066
70000.000	- 11.295	48.018
75000.000	- 6.243	20.081
80000.000	15.052	- .371
85000.000	25.806	11.844
90000.000	2.677	35.790

LEGEND

5 m/sec or less

10 m/sec

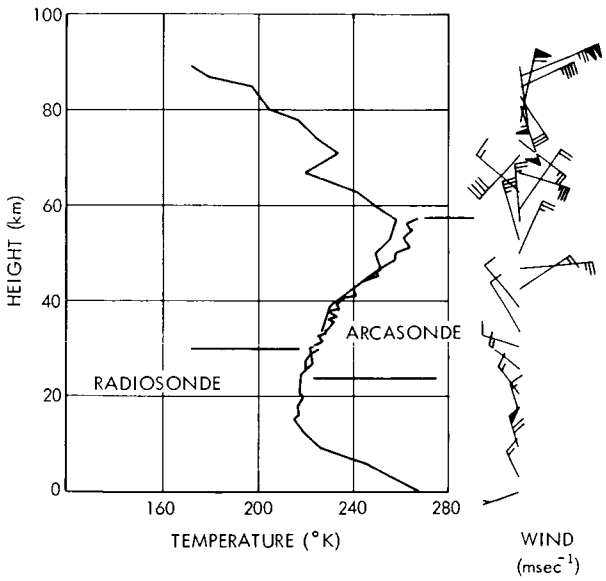
50 m/sec

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 (%)	
.3100000	05	.1010205	04	.1556985	01-	.2260389	03	.2041671-	01	.1406697-	01
.3200000	05	.8707686	03	.1323678	01-	.2291809	03	.2057721-	01	.2347606-	01
.3300000	05	.7521324	03	.1127873	01-	.2323230	03	.1977772-	01	.2542721-	01
.3400000	05	.6509685	03	.9631448	02-	.2354651	03	.1875689-	01	.2588665-	01
.3500000	05	.5645164	03	.8242353	02-	.2386071	03	.1753694-	01	.2611784-	01
.3600000	05	.4904806	03	.7068298	02-	.2417492	03	.1613051-	01	.2612333-	01
.3700000	05	.4269472	03	.6073770	02-	.2448913	03	.1454306-	01	.2593544-	01
.3800000	05	.3723174	03	.5229515	02-	.2480334	03	.1278202-	01	.2554404-	01
.3900000	05	.3252515	03	.4511285	02-	.2511754	03	.1085542-	01	.2494524-	01
.4000000	05	.2846249	03	.3899015	02-	.2543175	03	.8769276-	00	.2419733-	01
.4100000	05	.2494916	03	.3376021	02-	.2574595	03	.6535870-	00	.2325505-	01
.4200000	05	.2190537	03	.2928409	02-	.2606016	03	.4151776-	00	.2216882-	01
.4300000	05	.1926372	03	.2544580	02-	.2637437	03	.1626383-	00	.2090092-	01
.4400000	05	.1696344	03	.2221868	02-	.2659829	03	.8167921	01-	.1639349-	01
.4500000	05	.1494949	03	.1951801	02-	.2668389	03	.2641871	00	.7373898-	00
.4600000	05	.1318049	03	.1715338	02-	.2676948	03	.3539704	00	.7225614	01-
.4700000	05	.1162594	03	.1508204	02-	.2685507	03	.3525494	00	.7820869	00
.4800000	05	.1025924	03	.1326677	02-	.2694066	03	.2897941	00	.7577561	00
.4900000	05	.9057145	02	.1167518	02-	.2702625	03	.2598599	00	.4057717	00
.5000000	05	.7996200	02	.1034026	02-	.2694078	03	.2293820	00	.6939800	00
.5100000	05	.7055750	02	.9179516	03-	.2677821	03	.1412225	00	.1218625	01
.5200000	05	.6221409	02	.8143479	03-	.2661563	03	.2284099-	01-	.1670237	01
.5300000	05	.5481715	02	.7219360	03-	.2645306	03	.2490167-	00	.1639630	01
.5400000	05	.4826390	02	.6395609	03-	.2629049	03	.4697679-	00	.1297335	01
.5500000	05	.4245051	02	.5684747	03-	.2601536	03	.7042694-	00	.1377583	01
.5600000	05	.3728121	02	.5059931	03-	.2566868	03	.9984492-	00	.1682655	01
.5700000	05	.3268497	02	.4496850	03-	.2532199	03	.1372152-	01	.1920862	01
.5800000	05	.2860463	02	.3990099	03-	.2497530	03	.1828135-	01	.2085132	01
.5900000	05	.2498810	02	.3534691	03-	.2462862	03	.2368093-	01	.2176427	01
.6000000	05	.2178796	02	.3126019	03-	.2428193	03	.2994746-	01	.2184195	01
.6100000	05	.1896585	02	.2750492	03-	.2402261	03	.3686047-	01	.1764557	01
.6200000	05	.1648765	02	.2411967	03-	.2381472	03	.4395572-	01	.7884095	00
.6300000	05	.1431631	02	.2112766	03-	.2360684	03	.5035293-	01	.5850826-	00
.6400000	05	.1241595	02	.1848595	03-	.2339896	03	.5584968-	01	.1863622-	01
.6500000	05	.1075466	02	.1615600	03-	.2319108	03	.6042485-	01	.3054287-	01
.6600000	05	.9304024	01	.1410323	03-	.2298319	03	.6404442-	01	.4144413-	01
.6700000	05	.8039259	01	.1228836	03-	.2279189	03	.6661875-	01	.5211672-	01
.6800000	05	.6938265	01	.1069366	03-	.2260385	03	.6804253-	01	.6187692-	01
.6900000	05	.5980964	01	.9295544	04-	.2241582	03	.6825355-	01	.7044553-	01
.7000000	05	.5149544	01	.8071066	04-	.2222778	03	.6719092-	01	.7796118-	01
.7100000	05	.4428274	01	.6999808	04-	.2203974	03	.6478231-	01	.8429811-	01
.7200000	05	.3803247	01	.6064377	04-	.2184874	03	.6095679-	01	.8933707-	01
.7300000	05	.3261997	01	.5252178	04-	.2163726	03	.5570051-	01	.9235498-	01
.7400000	05	.2793693	01	.4542555	04-	.2142578	03	.4898149-	01	.9422439-	01
.7500000	05	.2389061	01	.3923347	04-	.2121430	03	.4069180-	01	.9496023-	01
.7600000	05	.2039935	01	.3383740	04-	.2100281	03	.3067936-	01	.9428783-	01
.7700000	05	.1739132	01	.2914126	04-	.2079133	03	.1882559-	01	.9217256-	01
.7800000	05	.1480326	01	.2506272	04-	.2057725	03	.4956517-	00	.8862839-	01
.7900000	05	.1257949	01	.2152759	04-	.2035756	03	.1105009	01	.8354241-	01
.8000000	05	.1067145	01	.1846155	04-	.2013786	03	.2946652	01	.7646035-	01
.8100000	05	.9036966	00	.1580635	04-	.1991816	03	.4832343	01	.4895599-	01
.8200000	05	.7639126	00	.1351044	04-	.1969847	03	.6556277	01	.2239943-	01
.8300000	05	.6445683	00	.1152831	04-	.1947877	03	.8105517	01	.2461804	00
.8400000	05	.5428508	00	.9819815	05-	.1925907	03	.9463385	01	.2685515	01
.8500000	05	.4564488	00	.8322736	05-	.1910663	03	.1065427	02	.4622714	01
.8600000	05	.3842463	00	.6862180	05-	.1950769	03	.1198273	02	.3705315	01
.8700000	05	.3246175	00	.5680495	05-	.1990874	03	.1372529	02	.3206671	01
.8800000	05	.2751801	00	.4720299	05-	.2030980	03	.1588483	02	.3085827	01
.8900000	05	.2340384	00	.3936835	05-	.2071085	03	.1846446	02	.3329007	01
.9000000	05	.1996767	00	.3295020	05-	.2111191	03	.2147265	02	.3943864	01
.9100000	05	.1708781	00	.2767224	05-	.2151297	03	.2474676	02	.6513634	01
.9200000	05	.1466612	00	.2331586	05-	.2191402	03	.2809961	02	.9105564	01

FIGURE 40
23 OCTOBER 1965, 1638 GMT, CHURCHILL

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
334.669	8.522	2.004	227.974	.480	33924.050
326.723	10.840	4.505	230.854	.908	39401.000
53.305	12.636	7.765	241.190	1.440	43512.550
86.299	24.152	10.180	251.492	1.665	46933.850
22.165	24.088	9.700	249.128	1.650	50278.050
345.752	33.114	12.473	255.053	1.725	53546.100
352.909	25.384	17.111	258.552	2.328	56715.200
35.078	19.322	13.666	248.097	2.066	59807.350
309.614	15.772	4.802	241.688	.786	63288.900
106.011	34.129	7.669	219.379	.984	67118.350
218.220	39.567	9.227	233.141	1.295	70790.350
149.947	26.486	22.610	225.242	2.786	74360.790
7.193	61.756	21.825	217.755	3.133	77764.850
162.545	50.821	18.542	204.542	2.360	80574.290
141.522	30.134	39.845	200.825	4.572	82888.390
60.302	43.368	35.051	187.855	4.933	85122.800
67.708	122.912	27.383	179.758	3.412	87276.400
170.167	53.186	30.246	172.419	3.384	89264.550



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.000	- 7.970	4.098
40000.000	- 8.842	3.605
45000.000	- 4.946	- 16.205
50000.000	- 20.583	- 10.336
55000.000	- 28.927	5.849
60000.000	- 15.494	- 9.818
65000.000	- 1.357	- 7.938
70000.000	26.421	12.150
75000.000	7.115	- 12.225
80000.000	26.046	- 13.708
85000.000	- 19.008	- 36.632

LEGEND

5 m/sec or less

10 m/sec

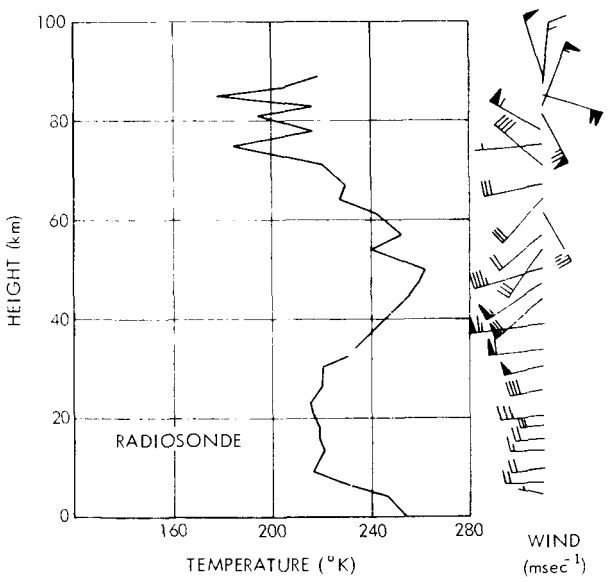
50 m/sec

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	.8491980	03	.1309606	01-	.2259054	03	.4483933-	01	.3385782-	01
.3300000	05	.7312580	03	.1122380	01-	.2269806	03	.4698243-	01	.3017339-	01
.3400000	05	.6301635	03	.9628300	02-	.2280141	03	.5011757-	01	.2620502-	01
.3500000	05	.5433468	03	.8282721	02-	.2285400	03	.5437974-	01	.2134821-	01
.3600000	05	.4686721	03	.7127987	02-	.2290658	03	.5987683-	01	.1789934-	01
.3700000	05	.4044155	03	.6136627	02-	.2295917	03	.6654969-	01	.1585638-	01
.3800000	05	.3491029	03	.5285206	02-	.2301175	03	.7433636-	01	.1516666-	01
.3900000	05	.3014706	03	.4553674	02-	.2306434	03	.8317728-	01	.1578339-	01
.4000000	05	.2605337	03	.3906254	02-	.2323601	03	.9266922-	01	.2238547-	01
.4100000	05	.2254633	03	.3344253	02-	.2348739	03	.1022157-	02	.3244614-	01
.4200000	05	.1954230	03	.2867974	02-	.2373878	03	.1115805-	02	.4234854-	01
.4300000	05	.1696480	03	.2463619	02-	.2399017	03	.1207717-	02	.5205323-	01
.4400000	05	.1475065	03	.2117751	02-	.2426579	03	.1297343-	02	.6248549-	01
.4500000	05	.1284724	03	.1821872	02-	.2456689	03	.1383531-	02	.7345172-	01
.4600000	05	.1120877	03	.1570273	02-	.2486799	03	.1465838-	02	.8390780-	01
.4700000	05	.9795095	02	.1357137	02-	.2514450	03	.1545092-	02	.9312572-	01
.4800000	05	.8564813	02	.1190023	02-	.2507382	03	.1627420-	02	.9620759-	01
.4900000	05	.7486530	02	.1043143	02-	.2500315	03	.1712637-	02	.1029037-	02
.5000000	05	.6541773	02	.9140887	03-	.2493247	03	.1800131-	02	.1098560-	02
.5100000	05	.5717118	02	.7953105	03-	.2504371	03	.1885778-	02	.1230449-	02
.5200000	05	.5000543	02	.6906278	03-	.2522500	03	.1964198-	02	.1377605-	02
.5300000	05	.4378162	02	.6003555	03-	.2540630	03	.2033042-	02	.1547739-	02
.5400000	05	.3836708	02	.5230388	03-	.2555542	03	.2087907-	02	.1715811-	02
.5500000	05	.3364605	02	.4567064	03-	.2566582	03	.2129873-	02	.1855436-	02
.5600000	05	.2952378	02	.3990348	03-	.2577622	03	.2159858-	02	.1981133-	02
.5700000	05	.2591359	02	.3504762	03-	.2575889	03	.2180499-	02	.2056476-	02
.5800000	05	.2272523	02	.3114424	03-	.2542078	03	.2200638-	02	.2031868-	02
.5900000	05	.1989499	02	.2763301	03-	.2508266	03	.2226758-	02	.2012194-	02
.6000000	05	.1738794	02	.2445155	03-	.2477422	03	.2258468-	02	.2007208-	02
.6100000	05	.1517706	02	.2150230	03-	.2459014	03	.2292659-	02	.2044434-	02
.6200000	05	.1323433	02	.1889134	03-	.2440605	03	.2326010-	02	.2105915-	02
.6300000	05	.1152881	02	.1658186	03-	.2422197	03	.2352566-	02	.2197506-	02
.6400000	05	.1002469	02	.1470221	03-	.2375452	03	.2376895-	02	.2195033-	02
.6500000	05	.8689937	01	.1306509	03-	.2317195	03	.2408081-	02	.2160164-	02
.6600000	05	.7505887	01	.1157593	03-	.2258937	03	.2449315-	02	.2132174-	02
.6700000	05	.6458705	01	.1022461	03-	.2200680	03	.2501257-	02	.2113075-	02
.6800000	05	.5551869	01	.8685808	04-	.2226830	03	.2542653-	02	.2380202-	02
.6900000	05	.4782809	01	.7358770	04-	.2264310	03	.2549085-	02	.2641229-	02
.7000000	05	.4130570	01	.6251761	04-	.2301790	03	.2517720-	02	.2857987-	02
.7100000	05	.3574509	01	.5352051	04-	.2326774	03	.2450911-	02	.2998546-	02
.7200000	05	.3093719	01	.4676640	04-	.2304650	03	.2361433-	02	.2977279-	02
.7300000	05	.2673991	01	.4081334	04-	.2282527	03	.2259197-	02	.2946921-	02
.7400000	05	.2308033	01	.3557249	04-	.2260403	03	.2143082-	02	.2906923-	02
.7500000	05	.1989374	01	.3096311	04-	.2238361	03	.2011829-	02	.2857415-	02
.7600000	05	.1712274	01	.2691474	04-	.2216364	03	.1863748-	02	.2795839-	02
.7700000	05	.1471637	01	.2336412	04-	.2194368	03	.1697391-	02	.2721457-	02
.7800000	05	.1262689	01	.2030480	04-	.2166486	03	.1512476-	02	.2616437-	02
.7900000	05	.1080560	01	.1776160	04-	.2119458	03	.1315226-	02	.2438653-	02
.8000000	05	.9215194	00	.1549112	04-	.2072429	03	.1110173-	02	.2250563-	02
.8100000	05	.7834715	00	.1338914	04-	.2038584	03	.9114241-	01	.1943956-	02
.8200000	05	.6648120	00	.1145154	04-	.2022521	03	.7267018-	01	.1713791-	02
.8300000	05	.5633059	00	.9803649	05-	.2001773	03	.5523617-	01	.1475087-	02
.8400000	05	.4757415	00	.8526957	05-	.1943726	03	.4068902-	01	.1083386-	02
.8500000	05	.3997572	00	.7385613	05-	.1885680	03	.3089154-	01	.7157592-	01
.8600000	05	.3343955	00	.6312310	05-	.1845569	03	.2545535-	01	.4604639-	01
.8700000	05	.2786763	00	.5369914	05-	.1807968	03	.2369569-	01	.2436154-	01
.8800000	05	.2313728	00	.4551820	05-	.1770865.	03	.2563469-	01	.5935651-	00
.8900000	05	.1913567	00	.3844725	05-	.1733950	03	.3139939-	01	.9114223	00

FIGURE 41
27 OCTOBER 1965, 2342 GMT, BARROW

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
264.077	61.782	2.296	232.853	1.142	33998.150
264.637	64.127	3.884	243.076	2.063	39527.600
236.600	67.520	8.049	255.793	3.778	43667.350
242.632	55.984	8.643	259.403	4.224	47129.850
259.195	44.007	7.309	262.966	3.643	50519.600
215.148	28.511	5.627	240.663	2.546	53799.700
232.686	19.017	5.380	252.506	2.479	56977.350
158.057	41.122	9.832	242.036	4.025	60595.850
225.445	32.359	21.108	227.896	8.755	64082.800
259.728	30.951	18.470	229.593	7.423	67399.600
310.510	41.392	14.640	222.354	7.547	71086.850
267.729	4.600	20.619	185.614	7.140	74648.490
277.340	53.288	18.010	217.828	7.989	78033.240
162.501	72.891	18.748	195.773	6.431	80829.290
16.976	54.484	43.342	216.521	16.762	83127.890
111.346	99.659	44.301	178.183	14.531	85344.190
3.069	14.173	74.256	205.255	29.948	87468.240
331.220	51.673	32.558	219.557	40.471	89460.140



WIND COMPONENTS
m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
35000.000	6.306	61.886
40000.000	9.517	63.015
45000.000	32.587	53.928
50000.000	10.930	44.222
55000.000	18.861	15.926
60000.000	33.760	- 10.346
65000.000	17.951	25.104
70000.000	- 17.335	31.171
75000.000	- 2.354	9.034
80000.000	41.640	- 1.377
85000.000	22.549	- 80.878

LEGEND

5 m/sec or less

50 m/sec

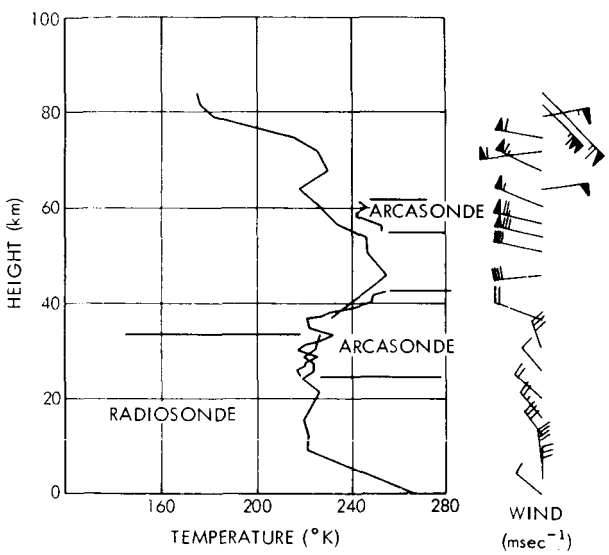
10 m/sec

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 (%)	
.3200000	05	.8076478	03	.1240058	01-	.2269020	03	.9157419-	01	.8516583-	01
.3300000	05	.6962734	03	.1055205	01-	.2298800	03	.9257640-	01	.8821853-	01
.3400000	05	.6014319	03	.8998232	02-	.2328560	03	.9342626-	01	.8992933-	01
.3500000	05	.5203188	03	.7723347	02-	.2347049	03	.9445673-	01	.8744149-	01
.3600000	05	.4506775	03	.6637341	02-	.2365538	03	.9597267-	01	.8550098-	01
.3700000	05	.3908114	03	.5711028	02-	.2384027	03	.9794987-	01	.8411058-	01
.3800000	05	.3392861	03	.4919920	02-	.2402515	03	.1003662-	02	.8323316-	01
.3900000	05	.2948863	03	.4243431	02-	.2421004	03	.1032011-	02	.8283824-	01
.4000000	05	.2566238	03	.3656184	02-	.2445271	03	.1062857-	02	.8497022-	01
.4100000	05	.2236824	03	.3147320	02-	.2475991	03	.1093068-	02	.8942229-	01
.4200000	05	.1953084	03	.2714406	02-	.2506711	03	.1121014-	02	.9362711-	01
.4300000	05	.1708227	03	.2345360	02-	.2537432	03	.1146833-	02	.9755675-	01
.4400000	05	.1496279	03	.2035135	02-	.2561400	03	.1172185-	02	.9905905-	01
.4500000	05	.1311848	03	.1777053	02-	.2571824	03	.1201614-	02	.9624515-	01
.4600000	05	.1150809	03	.1552613	02-	.2582249	03	.1237940-	02	.9421064-	01
.4700000	05	.1010113	03	.1357314	02-	.2592673	03	.1280934-	02	.9300795-	01
.4800000	05	.8871190	02	.1187235	02-	.2603174	03	.1327921-	02	.9832512-	01
.4900000	05	.7795402	02	.1039066	02-	.2613687	03	.1370726-	02	.1064106-	02
.5000000	05	.6853903	02	.9099114	03-	.2624200	03	.1408889-	02	.1139238-	02
.5100000	05	.6023865	02	.8089940	03-	.2596997	03	.1450416-	02	.1089490-	02
.5200000	05	.5281854	02	.7276044	03-	.2529002	03	.1512134-	02	.9159578-	01
.5300000	05	.4614873	02	.6532884	03-	.2461007	03	.1602298-	02	.8025093-	01
.5400000	05	.4019498	02	.5800632	03-	.2414097	03	.1710957-	02	.8126255-	01
.5500000	05	.3500132	02	.4974330	03-	.2451365	03	.1812862-	02	.1129147-	02
.5600000	05	.3054374	02	.4275820	03-	.2488634	03	.1889004-	02	.1407458-	02
.5700000	05	.2670793	02	.3685868	03-	.2524402	03	.1940806-	02	.1646001-	02
.5800000	05	.2335908	02	.3261084	03-	.2495467	03	.1983101-	02	.1656644-	02
.5900000	05	.2039909	02	.2881259	03-	.2466532	03	.2029799-	02	.1671218-	02
.6000000	05	.1778649	02	.2542064	03-	.2437597	03	.2081027-	02	.1690427-	02
.6100000	05	.1548171	02	.2243615	03-	.2403968	03	.2137952-	02	.1698921-	02
.6200000	05	.1344709	02	.1982193	03-	.2363418	03	.2202641-	02	.1717051-	02
.6300000	05	.1165193	02	.1747557	03-	.2322869	03	.2270896-	02	.1776975-	02
.6400000	05	.1007144	02	.1537351	03-	.2282320	03	.2341346-	02	.1838663-	02
.6500000	05	.8694910	01	.1326457	03-	.2283653	03	.2403737-	02	.2040463-	02
.6600000	05	.7508390	01	.1142887	03-	.2288768	03	.2446796-	02	.2232128-	02
.6700000	05	.6486208	01	.9850946	04-	.2293882	03	.2469325-	02	.2401305-	02
.6800000	05	.5602590	01	.8545249	04-	.2284138	03	.2474522-	02	.2503510-	02
.6900000	05	.4834993	01	.7438419	04-	.2264505	03	.2467791-	02	.2561580-	02
.7000000	05	.4167404	01	.6467435	04-	.2244873	03	.2450997-	02	.2611601-	02
.7100000	05	.3587474	01	.5616556	04-	.2225240	03	.2423529-	02	.2652526-	02
.7200000	05	.3076067	01	.5032792	04-	.2129340	03	.2405017-	02	.2442460-	02
.7300000	05	.2618316	01	.4501951	04-	.2026186	03	.2420368-	02	.2220041-	02
.7400000	05	.2210111	01	.4003920	04-	.1923033	03	.2476424-	02	.2016269-	02
.7500000	05	.1854419	01	.3418986	04-	.1889595	03	.2553729-	02	.2113066-	02
.7600000	05	.1560366	01	.2738888	04-	.1984770	03	.2585575-	02	.2668928-	02
.7700000	05	.1323670	01	.2217104	04-	.2079945	03	.2532187-	02	.3093134-	02
.7800000	05	.1131231	01	.1811867	04-	.2175120	03	.2396108-	02	.3411393-	02
.7900000	05	.9676110	00	.1603693	04-	.2102024	03	.2223027-	02	.3172867-	02
.8000000	05	.8229447	00	.1417105	04-	.2023143	03	.2061116-	02	.2910927-	02
.8100000	05	.6963055	00	.1229421	04-	.1973138	03	.1922584-	02	.2602762-	02
.8200000	05	.5901561	00	.9964170	05-	.2063403	03	.1768058-	02	.2790036-	02
.8300000	05	.5037689	00	.8149123	05-	.2153667	03	.1550904-	02	.2913806-	02
.8400000	05	.4292329	00	.7423629	05-	.2014350	03	.1344714-	02	.2237133-	02
.8500000	05	.3610132	00	.6830317	05-	.1841367	03	.124[illegible]65-	02	.1413806-	02
.8600000	05	.3015842	00	.5632369	05-	.1865416	03	.121[illegible]787-	02	.1488031-	02
.8700000	05	.2537222	00	.4435444	05-	.1992872	03	.1111190-	02	.1941417-	02
.8800000	05	.2155179	00	.3591228	05-	.2090733	03	.9240321-	01	.2157177-	02
.8900000	05	.1842736	00	.2968646	05-	.2162534	03	.6725239-	01	.2208278-	02

FIGURE 42
27 OCTOBER 1965, 2349 GMT, CHURCHILL

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
298.768	19.911	2.627	231.400	.604	37078.200
262.589	37.663	5.982	254.146	1.783	46076.150
286.906	40.186	14.068	246.254	4.897	51211.300
294.305	81.726	20.098	245.488	6.067	54482.850
292.576	72.540	20.214	233.918	6.045	57691.150
306.017	53.575	18.982	225.869	6.480	60821.500
76.587	51.256	16.119	218.455	4.306	64331.200
311.918	62.813	20.708	230.101	5.916	68201.850
260.757	62.043	26.249	225.403	5.682	71911.750
283.593	61.450	10.466	215.700	2.708	75493.950
70.613	55.278	14.280	182.440	3.110	78927.400
133.597	114.255	51.709	175.779	10.150	81765.650
138.765	65.422	66.930	174.255	11.552	84083.550



WIND COMPONENTS m/sec

HEIGHT meters	SOUTH component (+)	WEST component (+)
40000.000	- 4.894	23.914
45000.000	3.131	34.969
50000.000	- 7.783	38.190
55000.000	- 32.705	73.274
60000.000	- 30.545	49.540
65000.000	- 17.086	- 33.168
70000.000	- 16.796	53.766
75000.000	- 11.077	59.937
80000.000	18.360	- 63.708

LEGEND

5 m/sec or less

10 m/sec

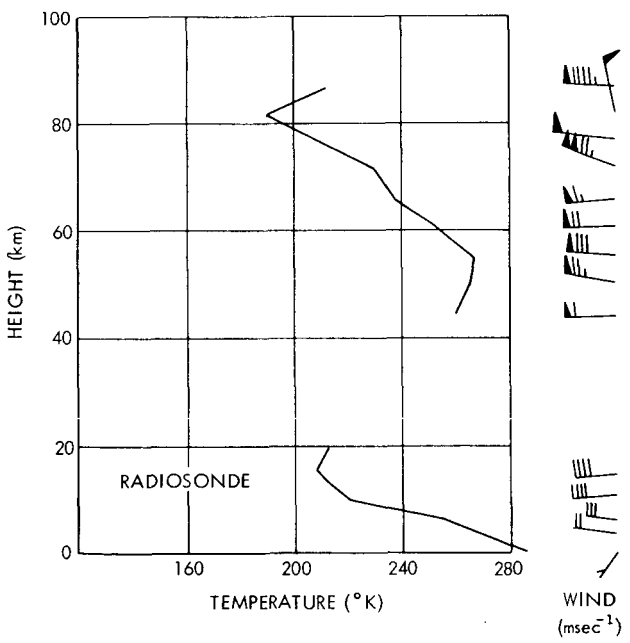
50 m/sec

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 (%)	
.3500000	05	.5366101	03	.8424874	02-	.2218981	03	.6610403-	01	.4551964-	00
.3600000	05	.4614505	03	.7098592	02-	.2264702	03	.7436271-	01	.2194939-	01
.3700000	05	.3980350	03	.6001888	02-	.2310423	03	.8127667-	01	.3746477-	01
.3800000	05	.3441451	03	.5129619	02-	.2337301	03	.8748219-	01	.4415843-	01
.3900000	05	.2980456	03	.4394952	02-	.2362581	03	.9359324-	01	.5008916-	01
.4000000	05	.2585281	03	.3771872	02-	.2387860	03	.9965395-	01	.5601717-	01
.4100000	05	.2245961	03	.3242486	02-	.2413140	03	.1056685-	02	.6188928-	01
.4200000	05	.1954126	03	.2791916	02-	.2438419	03	.1116276-	02	.6774534-	01
.4300000	05	.1702727	03	.2407773	02-	.2463698	03	.1175341-	02	.7354148-	01
.4400000	05	.1485820	03	.2079713	02-	.2488978	03	.1233890-	02	.7932466-	01
.4500000	05	.1298386	03	.1799088	02-	.2514257	03	.1291901-	02	.8503902-	01
.4600000	05	.1136176	03	.1558652	02-	.2539537	03	.1349354-	02	.9068768-	01
.4700000	05	.9946123	02	.1371076	02-	.2527264	03	.1414728-	02	.8381172-	01
.4800000	05	.8700879	02	.1206757	02-	.2511895	03	.1494409-	02	.8349890-	01
.4900000	05	.7605612	02	.1061344	02-	.2496527	03	.1580817-	02	.8725163-	01
.5000000	05	.6642974	02	.9327520	03-	.2481158	03	.1673281-	02	.9168164-	01
.5100000	05	.5797546	02	.8191176	03-	.2465790	03	.1771627-	02	.9679373-	01
.5200000	05	.5057067	02	.7159772	03-	.2460695	03	.1873364-	02	.1061122-	02
.5300000	05	.4410422	02	.6250207	03-	.2458351	03	.1974338-	02	.1200485-	02
.5400000	05	.3846133	02	.5455728	03-	.2456008	03	.2068471-	02	.1358905-	02
.5500000	05	.3352117	02	.4793575	03-	.2436227	03	.2159085-	02	.1451493-	02
.5600000	05	.2917042	02	.4234086	03-	.2400165	03	.2253695-	02	.1491325-	02
.5700000	05	.2533210	02	.3733043	03-	.2364103	03	.2355966-	02	.1539079-	02
.5800000	05	.2195430	02	.3280888	03-	.2331237	03	.2465224-	02	.1605977-	02
.5900000	05	.1899340	02	.2870063	03-	.2305523	03	.2579021-	02	.1703580-	02
.6000000	05	.1640590	02	.2507031	03-	.2279809	03	.2695699-	02	.1804945-	02
.6100000	05	.1414840	02	.2185927	03-	.2254914	03	.2815042-	02	.1912362-	02
.6200000	05	.1218361	02	.1900167	03-	.2233790	03	.2935276-	02	.2059808-	02
.6300000	05	.1047727	02	.1649645	03-	.2212665	03	.3050089-	02	.2237695-	02
.6400000	05	.8997297	01	.1430278	03-	.2191541	03	.3158157-	02	.2407079-	02
.6500000	05	.7724617	01	.1220652	03-	.2204668	03	.3251429-	02	.2675355-	02
.6600000	05	.6642111	01	.1035461	03-	.2234757	03	.3318245-	02	.2962268-	02
.6700000	05	.5723114	01	.8803429	04-	.2264846	03	.3355299-	02	.3209327-	02
.6800000	05	.4941195	01	.7501009	04-	.2294935	03	.3362918-	02	.3419590-	02
.6900000	05	.4269859	01	.6493297	04-	.2290901	03	.3348186-	02	.3506703-	02
.7000000	05	.3687939	01	.5639528	04-	.2278238	03	.3319520-	02	.3557401-	02
.7100000	05	.3182870	01	.4894392	04-	.2265575	03	.3278021-	02	.3597247-	02
.7200000	05	.2744716	01	.4246752	04-	.2251638	03	.3223142-	02	.3622825-	02
.7300000	05	.2363775	01	.3701875	04-	.2224552	03	.3157224-	02	.3602676-	02
.7400000	05	.2032077	01	.3221635	04-	.2197465	03	.3082478-	02	.3576130-	02
.7500000	05	.1743735	01	.2799001	04-	.2170379	03	.2998173-	02	.3543251-	02
.7600000	05	.1491584	01	.2465130	04-	.2107978	03	.2912405-	02	.3401686-	02
.7700000	05	.1268254	01	.2196994	04-	.2011108	03	.2844830-	02	.3155780-	02
.7800000	05	.1069816	01	.1947025	04-	.1914238	03	.2808923-	02	.2919908-	02
.7900000	05	.8947690	00	.1710230	04-	.1822697	03	.2808479-	02	.2719325-	02
.8000000	05	.7441974	00	.1440986	04-	.1799229	03	.2820785-	02	.2791463-	02
.8100000	05	.6175041	00	.1211472	04-	.1775761	03	.2836712-	02	.2710756-	02
.8200000	05	.5112473	00	.1014151	04-	.1756252	03	.2868739-	02	.2661717-	02
.8300000	05	.4227057	00	.8416640	05-	.1749675	03	.2910478-	02	.2681182-	02
.8400000	05	.3492688	00	.6980650	05-	.1743099	03	.2957154-	02	.2700355-	02

FIGURE 43
28 OCTOBER 1965, 0100 GMT, WALLOPS ISLAND

WIND DIRECTION degrees	WIND SPEED m/sec	ERROR m/sec (±)	TEMPERATURE degrees Kelvin	ERROR degrees Kelvin (±)	HEIGHT meters
268.775	59.687	.954	259.889	.634	44298.800
281.032	72.796	1.621	264.679	.885	49986.900
276.359	81.516	2.189	266.680	1.031	55017.650
268.903	69.714	1.690	253.935	.687	60657.800
263.044	64.898	3.126	237.849	1.084	66233.200
298.419	124.930	2.731	230.101	.806	71645.290
283.002	52.327	2.904	211.327	.940	76973.040
352.885	50.188	2.863	190.138	.833	81760.800
273.812	95.028	2.858	211.763	.964	86670.340



HEIGHT meters	WIND COMPONENTS m/sec SOUTH component (+)	WEST component (+)
45000.000	- .599	61.125
50000.000	- 13.918	71.476
55000.000	- 9.046	80.981
60000.000	.126	71.021
65000.000	6.416	65.588
70000.000	- 38.992	96.057
75000.000	- 29.431	72.794
80000.000	- 35.816	22.681
85000.000	- 21.112	64.674

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 (%)	
.1900000	05	.6326867	04	.1034858	00	.2129935	03	.2174144-	01	.4944535-	00
.2000000	05	.5398797	04	.8754383	01-	.2148472	03	.2360207-	01	.1536574-	01
.2100000	05	.4613372	04	.7416792	01-	.2167008	03	.2443632-	01	.2043289-	01
.2200000	05	.3947686	04	.6292758	01-	.2185545	03	.2465817-	01	.2452975-	01
.2300000	05	.3382668	04	.5346750	01-	.2204082	03	.2428463-	01	.2796955-	01
.2400000	05	.2902411	04	.4549379	01-	.2222618	03	.2332947-	01	.3076837-	01
.2500000	05	.2493626	04	.3876301	01-	.2241155	03	.2180833-	01	.3295540-	01
.2600000	05	.2145196	04	.3307318	01-	.2259692	03	.1972865-	01	.3455700-	01
.2700000	05	.1847809	04	.2825647	01-	.2278229	03	.1710732-	01	.3554958-	01
.2800000	05	.1593647	04	.2417317	01-	.2296765	03	.1394814-	01	.3600352-	01
.2900000	05	.1376144	04	.2070687	01-	.2315302	03	.1026731-	01	.3590340-	01
.3000000	05	.1189771	04	.1776032	01-	.2333839	03	.6063694-	00	.3528929-	01
.3100000	05	.1029871	04	.1525226	01-	.2352376	03	.1346933-	00	.3417781-	01
.3200000	05	.8925109	03	.1311463	01-	.2370912	03	.3878032	00	.3248732-	01
.3300000	05	.7743685	03	.1129037	01-	.2389449	03	.9201552	00	.2442185-	01
.3400000	05	.6726320	03	.9731544	02-	.2407986	03	.1389780	01	.1576299-	01
.3500000	05	.5849184	03	.8397870	02-	.2426522	03	.1797001	01	.7742718-	00
.3600000	05	.5092061	03	.7255417	02-	.2445059	03	.2143164	01	.3419688-	01-
.3700000	05	.4437775	03	.6275582	02-	.2463596	03	.2430379	01	.6428149	00
.3800000	05	.3871712	03	.5434208	02-	.2482133	03	.2660361	01	.1259800	01
.3900000	05	.3381427	03	.4710878	02-	.2500669	03	.2834891	01	.1819407	01
.4000000	05	.2956306	03	.4088311	02-	.2519206	03	.2955904	01	.2317771	01
.4100000	05	.2587289	03	.3551858	02-	.2537743	03	.3024671	01	.2761782	01
.4200000	05	.2266625	03	.3089082	02-	.2556279	03	.3043850	01	.3148189	01
.4300000	05	.1987684	03	.2689424	02-	.2574816	03	.3014953	01	.3483160	01
.4400000	05	.1744784	03	.2343895	02-	.2593353	03	.2939551	01	.3762706	01
.4500000	05	.1532781	03	.2050051	02-	.2604796	03	.2801560	01	.4259333	01
.4600000	05	.1347258	03	.1796113	02-	.2613216	03	.2577915	01	.4784621	01
.4700000	05	.1184729	03	.1574362	02-	.2621637	03	.2263148	01	.5202936	01
.4800000	05	.1042277	03	.1380627	02-	.2630057	03	.1888390	01	.4855094	01
.4900000	05	.9173663	02	.1211288	02-	.2638477	03	.1549683	01	.4169977	01
.5000000	05	.8077847	02	.1063227	02-	.2646839	03	.1252793	01	.3537591	01
.5100000	05	.7115333	02	.9351331	03-	.2650818	03	.9868793	00	.3113163	01
.5200000	05	.6268940	02	.8226612	03-	.2654796	03	.7409836	00	.2708146	01
.5300000	05	.5524488	02	.7238835	03-	.2658774	03	.5293262	00	.1913816	01
.5400000	05	.4869552	02	.6371128	03-	.2662753	03	.4203257	00	.9095816	00
.5500000	05	.4293238	02	.5608721	03-	.2666731	03	.4228579	00	.2178830	01-
.5600000	05	.3783642	02	.4984341	03-	.2644602	03	.4759203	00	.1636089	00
.5700000	05	.3331088	02	.4425994	03-	.2622005	03	.5165658	00	.3149171	00
.5800000	05	.2929550	02	.3926312	03-	.2599407	03	.5429443	00	.4531548	00
.5900000	05	.2573629	02	.3479541	03-	.2576809	03	.5551865	00	.5822027	00
.6000000	05	.2258464	02	.3080452	03-	.2554211	03	.5522586	00	.6947074	00
.6100000	05	.1979565	02	.2726452	03-	.2529473	03	.5278995	00	.8750962	00
.6200000	05	.1732744	02	.2414041	03-	.2500622	03	.4740030	00	.8750728	00
.6300000	05	.1514419	02	.2134501	03-	.2471770	03	.4563471	00	.4376598	00
.6400000	05	.1321568	02	.1884685	03-	.2442918	03	.4964249	00	.5232262	01-
.6500000	05	.1151459	02	.1661719	03-	.2414066	03	.5966432	00	.2868644-	00
.6600000	05	.1001629	02	.1462978	03-	.2385214	03	.7607390	00	.5656090-	00
.6700000	05	.8701451	01	.1280437	03-	.2367509	03	.1026359	01	.1231312-	01
.6800000	05	.7552330	01	.1118102	03-	.2353193	03	.1443956	01	.1912245-	01
.6900000	05	.6549589	01	.9755840	04-	.2338878	03	.2032988	01	.2441593-	01
.7000000	05	.5675272	01	.8505573	04-	.2324563	03	.2804142	01	.2832317-	01
.7100000	05	.4913535	01	.7409583	04-	.2310247	03	.3770109	01	.3069215-	01
.7200000	05	.4249427	01	.6468979	04-	.2288510	03	.4920766	01	.2857971-	01
.7300000	05	.3668552	01	.5672041	04-	.2253271	03	.6199086	01	.1979720-	01
.7400000	05	.3159894	01	.4963213	04-	.2218032	03	.7567950	01	.1034602-	01
.7500000	05	.2715394	01	.4333896	04-	.2182793	03	.9034459	01	.2546166-	01-
.7600000	05	.2327781	01	.3776212	04-	.2147554	03	.1060972	02	.1076339	01
.7700000	05	.1990499	01	.3283307	04-	.2112072	03	.1229897	02	.2283733	01
.7800000	05	.1697093	01	.2859248	04-	.2067816	03	.1407492	02	.3972653	01
.7900000	05	.1442024	01	.2482644	04-	.2023560	03	.1589970	02	.5689418	01
.8000000	05	.1220950	01	.2149034	04-	.1979305	03	.1778408	02	.7505456	01
.8100000	05	.1029939	01	.1854290	04-	.1935049	03	.1947697	02	.1156981	02
.8200000	05	.8662764	00	.1578505	04-	.1911916	03	.2083474	02	.1421886	02
.8300000	05	.7293379	00	.1299052	04-	.1955962	03	.2232287	02	.1296104	02
.8400000	05	.6164359	00	.1073777	04-	.2000008	03	.2430149	02	.1228459	02
.8500000	05	.5229502	00	.8913043	05-	.2044055	03	.2677581	02	.1204329	02
.8600000	05	.4452227	00	.7428207	05-	.2088101	03	.2975336	02	.1225944	02