

COMMONWEALTH OF AUSTRALIA
DEPARTMENT OF EXTERNAL AFFAIRS

AUSTRALIAN NATIONAL ANTARCTIC RESEARCH EXPEDITIONS



A.N.A.R.E. REPORTS

SERIES D

METEOROLOGY

VOLUME IV

Heard And Macquarie Islands, 1951

Prepared By

THE CENTRAL OFFICE, METEOROLOGICAL BRANCH, MELBOURNE

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A.N.A.R.E. REPORTS

SERIES D

METEOROLOGY

VOLUME IV

E R R A T A

- Prefatory Note: "The previous volume of this series....." should read "The 1948 volume of this series....."
- Page (ii) : 3.7. Delete "in cases where.....column"
- Page (v) : Wind. Delete "An anti-freeze....not published in this volume."
- Page 10 : Sunshine is hours/10
- Pages 16 -101 : Station level pressure is Mbs/10. Sunshine is hours/10
- Page 20 : The pressure on 01 02 should be 9982
" " 01 05 " " 9999
" " 06 14 " " 9894
" " 06 20 " " 9897
- Page 23 : The pressure readings on the 5th and at 11, 14 and 17 hours on the 6th should all commence with 9 and not 0.
- Page 27 : The pressure on 06 17 should be 0099
Page 30 : " " 03 23 " " 0013
Page 42 : " " 14 17 " " 0208
Page 50 : " " 21 05 " " 9986
Page 57 : " " 30 17 " " 9964
Page 70 : " " 04 22 " " 9985
- Page 82 : The maximum gust listed on 21 22 is 03 16
Page 93 : " " " 22 22 " 36 29
Page 95 : " " " 08 22 " 34 23
Page 96 : " " " 14 22 " 36 26
Page 97 : " " " 23 22 " 15 19
- Page 20 : The precipitation listed on 02 23 is 000.
- The amount of sunshine listed on 02 23 is 000.
" " " " 03 23 " 000.
" " " " 21 22 " 000.
" " " " 22 22 " 000.
" " " " 08 22 " 057.
" " " " 14 22 " 000.
" " " " 23 22 " 009
- Page 78 : Delete figure 2 in precipitation columnn 11 16.

P R E F A T O R Y N O T E

The previous volume of this series included a discussion of results of observations with a description of the meteorological stations at Heard & Macquarie Islands, a review of modern methods of synoptic analysis applicable to the Southern Ocean and analysed weather charts for June and December, 1948.

Volumes covering the years 1949-51 inclusive will contain only results of observations. When five complete years of results are available it is proposed to make these the basis of a further discussion of the meteorology of the sub antarctic region.

As in 1948 the meteorological work was carried out by Officers of the Meteorological Branch of the Department of the Interior.

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I N T R O D U C T I O N

1. The present volume contains all surface meteorological observations, radiosonde and pilot balloon observations, and frequency analyses of both surface and upper air data.

2. The observations at Heard Island were carried out by -

F.T. Hannan	(Meteorologist)
K.F. Bott	(Observer)
W.R.J. Dingle	(Observer)
A.J. Giese	(Observer)

and at Macquarie Island by -

R.K. Stibbs	(Meteorologist)
E.G. Tindale	(Observer)
K.E. Watson	(Observer)
M.A. Weaver	(Observer)

3. Surface Observations;

3.1. Surface observations were taken at three hourly intervals daily from 0000 to 2100 G.M.T.

3.2. Observations of visibility, present weather, past weather, cloud types and height of base of low cloud are entered as code figures in accordance with the International Code 1947 as set out in O.M.I. Publication No. 9 Fascicule I, 1949 Edition. These codes are also reproduced in this volume p.p. (vii) to (xiv) for reference.

3.3. Station level pressure is listed in millibars and tenths of millibars, the thousand figure being omitted.

3.4. The dry bulb, wet bulb, and dew point temperatures are listed to the nearest whole degree fahrenheit, 0.5 degree being listed to the odd whole degree.

- 3.5. The surface wind direction is listed in tens of degrees, and the speed in knots.
- 3.6. Visibility is listed according to the code on page (vii).
- 3.7. Cloud amounts are listed in oktas; in cases where there are several layers of low cloud only the lowest layer exceeding three eighths is listed in the "Low Cloud" column.
- 3.8. Present weather is listed according to the code reproduced on pages (vii) to (xi).
- 3.9. Past weather is listed according to the code on page (xi).
- 3.10. Cloud types are listed according to the codes on pages (xi) to (xiv).
- 3.11. Height of base of low cloud is listed according to the code on page (xiv).
- 3.12. Direction of movement of cloud is listed to eight points of the compass, i.e., NE = 1, N = 8, No cloud = 0, Unknown = 9.
- 3.13. The maximum and minimum temperatures are listed to the nearest whole degree, 0.5 degree being listed to the odd whole degree.
The temperature extremes were taken for the period of the local day (0000 to 2400 hours L.S.T.).
- 3.14. Precipitation is listed in points (hundredths of an inch) for the twenty four hour period ending at 0800 hours L.S.T. at Heard Island and at 1000 hours L.S.T. at Macquarie Island.
- 3.15. The anemometer run (number of wind miles) is listed in statute miles for the same twenty four hour periods as precipitation.
- 3.16. The direction of the maximum gust during the period of the local day is listed in tens of degrees, and the speed in knots.
- 3.17. The sunshine is listed in tenths of hours.
- 3.18. All extreme values and totals for the above twenty four hour periods are listed with the last observation of the local day, the 2300 hours L.S.T. (1800 hours G.M.T.) at Heard Island and the 2200 hours L.S.T. (1200 hours G.M.T.) at Macquarie Island.

- 4.
- Radiosonde data:
- 4.1. Radiosonde ascents were made at both Islands at between 0800 and 0900 hours G.M.T.
- 4.2. Pressure is listed in whole millibars excluding the thousand figure when 1000 mbs. or above.
- 4.3. Temperature is listed in tenths of degrees centigrade. Negative temperatures are indicated by the figure 5 up to the 700 mb level, after which all temperatures are negative.
- 4.4. The mixing ratio is listed up to the 400 mb level in grams and tenths per kilogram.
- 4.5. Geopotential is listed in tens of geopotential metres, and if negative at the 1000 mb level, 5000 geopotential metres are added to the height, disregarding the negative sign. The thousands figure is omitted for values above 300 mb.
- 4.6. The type of tropopause is identified by the following :
- Type I - The stratosphere commences with an inversion; the tropopause is the inversion point.
- Type 2 - The stratosphere begins with an abrupt transition to a lapse rate below 2°C per kilometre without inversion; the tropopause is the point of abrupt transition.
- Type 3 - No abrupt change in lapse rate; the tropopause is taken as the point where the mean lapse rate for the kilometre next above is 2°C or less, provided that it does not exceed 2°C for any subsequent kilometre.
- 5.
- Upper Wind Observations:
- 5.1. Time of commencement of upper wind observations is listed in G.M.T.
- 5.2. Observations are based on an assumed rate of ascent. Directions and speed are listed for each level.
- 5.3. Wind direction is listed in tens of degrees.
- 5.4. Wind speed is listed in knots.

(iii)

Campbell-Stokes recorder.

(v)

6. Frequency analyses were made from cards punched at island stations using a Hollerith tabulator.

7. The significance of the monthly values and frequency analyses is discussed in Section 1 (c), Volume 1.

Upper Air Observations. Radiosonde ascents were made daily between 0800 and 0900 hours G.M.T. using a Friez type transmitter which was carried aloft by a 350-gram balloon inflated to give a rate of ascent of approximately 300 meters per minute. In strong winds an extra free lift was required to ensure that the radiosonde would clear all obstructions. Base line checks were carried out in a Stevenson screen which was aspirated with an electric fan. A pilot balloon ascent was scheduled for every six hours from 0500 hours G.M.T.; but, owing to the high incidence of low cloud and precipitation, ascents were irregular.

Further details are published in Volume I Part 1 (c) page 14).

CODE FOR VISIBILITY

<u>Code figure</u>		<u>Metres</u>	<u>Kilometer</u>
90	less than	50	
91		50	
92		200	
93		500	
94		1000	1
95		2000	2
96		4000	4
97			10
98			20
99			50 or more

----00----

CODE FOR PRESENT WEATHER

- 00 Cloud development not observed or not observable. } Characteristic change
of the state of sky
01 Clouds generally dissolving or becoming less developed. } during the past hour.
02 State of sky on the whole unchanged. }
03 Clouds generally forming or developing. }
04 Visibility reduced by smoke, e.g., veldt or forest fires, industrial smoke or volcanic ashes.
05 Dry haze.
06 Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation.
07 Dust or sand raised by wind at or near the station at the time of observation, but no well developed dust devil(s) and no duststorm or sandstorm seen.
08 Well developed dust devil(s) seen at or near the station within last hour, but no duststorm or sandstorm.
09 Duststorm or sandstorm within sight of the station or at the station during the last hour.
10 Mist.

11	Patches of	}	shallow fog at the station, whether on land
12	More or less	}	or sea, not deeper than about 2 metres on land continuous or 10 metres at sea.
13	Lightning visible, no thunder heard.		
14	Precipitation within sight, not reaching the ground at the station.		
15	Precipitation within sight, reaching the ground, but distant (i.e. estimated to be more than 5 Km) from station.		
16	Precipitation within sight, reaching the ground, near to but not at the station.		
17	Thunder heard, but no precipitation at the station.		
18	Squalls	}	within sight during the past hour.
19	Funnel Cloud(s)		
20	Drizzle (not freezing)	}	
21	Rain (not freezing)	}	Not falling
22	Snow	as	
23	Rain and snow		
24	Freezing drizzle or freezing rain		
25	Shower (s) of rain		
26	Shower (s) of snow, or of rain and snow		
27	Shower (s) of hail, or of hail and rain		
28	Fog		
29	Thunderstorm (with or without precipitation)		
30	Slight or moderate		{ - has decreased during the preceding hour.
31	Duststorm or sandstorm		{ - no appreciable change during the preceding hour.
32			{ - has increased during the preceding hour.
33	Severe duststorm or		{ - has decreased during the preceding hour.
34	sandstorm		{ - no appreciable change during the preceding hour.
35			{ - has increased during the preceding hour.

36	Slight or moderate drifting snow	}	generally low
37	Heavy drifting snow		
38	Slight or moderate drifting snow	}	generally high
39	Heavy drifting snow		
40	Fog at a distance at the time of observation, but not at the station during the last hour, the fog extending to a level above that of the observer.		
41	Fog in patches		
42	Fog, sky discernible	}	has become thinner during the preceding hour.
43	Fog, sky not discernible		
44	Fog, sky discernible	}	no appreciable change during preceding hour.
45	Fog, sky not discernible		
46	Fog, sky discernible	}	has begun or has become thicker during the preceding hour.
47	Fog, sky not discernible		
48	Fog, depositing rime, sky discernible.		
49	Fog, depositing rime, sky not discernible.		
50	Drizzle, not freezing, intermittent	}	slight at time of observation.
51	Drizzle, not freezing, continuous		
52	Drizzle, not freezing, intermittent	}	moderate at time of observation.
53	Drizzle, not freezing, continuous		
54	Drizzle, not freezing, intermittent	}	thick at time of observation.
55	Drizzle, not freezing, continuous		
56	Drizzle, freezing, slight		
57	Drizzle, freezing, moderate or thick		
58	Drizzle and rain, slight		
59	Drizzle and rain, moderate or heavy		
60	Rain, not freezing, intermittent	}	slight at time of observation.
61	Rain, not freezing, continuous		
62	Rain, not freezing, intermittent	}	moderate at time of observation.
63	Rain, not freezing, continuous		

64	Rain, not freezing, intermittent	heavy at time of observation.
65	Rain, not freezing, continuous	
66	Rain, freezing, slight	
67	Rain, freezing moderate or heavy	
68	Rain or drizzle and snow, slight	
69	Rain or drizzle and snow moderate or heavy	
70	Intermittent fall of snow flakes	slight at time of observation
71	Continuous fall of snow flakes	
72	Intermittent fall of snow flakes	moderate at time of observation
73	Continuous fall of snow flakes	
74	Intermittent fall of snow flakes	heavy at time of observation
75	Continuous fall of snow flakes	
76	Ice needles (with or without fog)	
77	Granular snow (with or without fog)	
78	Isolated starlike snow crystals (with or without fog)	
79	Ice pellets	
80	Rain shower(s), slight	
81	Rain shower(s), moderate or heavy	
82	Rain shower(s), violent	
83	Shower(s) of rain and snow mixed, slight	
84	Shower(s) of rain and snow mixed, moderate or heavy	
85	Snow shower(s), slight	
86	Snow shower(s), moderate or heavy	
87	Shower(s) of soft or small hail with	- slight or without rain or rain and snow mixed} - moderate or heavy
88		
89	Shower(s) of hail, with or without rain or rain and snow,	- slight mixed, not associated with thunder} - moderate or heavy
90		
91	Slight rain at time of observation	- thunderstorm during the preceding hour but not at time of observation.
92	Moderate or heavy rain at time of observation.	
93	Slight snow or rain and snow mixed or hail at time of observation.	-
94	Moderate or heavy snow, or rain and snow mixed or hail, at time of observation.	

(x)

95	Thunderstorm, slight or moderate, without hail but with rain and/or snow at time of observation	}	Thunderstorm at time of observation.
96	Thunderstorm, slight or moderate, with hail at time of observation		
97	Thunderstorm, heavy, without hail, but with rain and/or snow at time of observation.		
98	Thunderstorm combined with duststorm or sand- storm at time of observation.		
99	Thunderstorm, heavy, with hail at time of observation.	}	Thunderstorm at time of observation.

---oOo---

CODE FOR PAST WEATHER

Code Figure	0	Fair, clear or slightly clouded
	1	Variable sky
	2	Mainly overcast
	3	Sandstorm, duststorm or drifting snow
	4	Fog or thick dust haze
	5	Drizzle
	6	Rain
	7	Snow or sleet
	8	Shower(s)
	9	Thunderstorm, with or without precipitation.

---oOo---

CODES FOR CLOUD TYPES

Low Cloud - Clouds of genera Sc, St, Cu, Cb.

0	No Stratocumulus, Stratus, Cumulus or Cumulonimbus clouds.
1	Cumulus with little vertical development and seemingly flattened.
2	Cumulus of considerable development, generally towering, with or without other Cumulus or Stratocumulus; bases all at the same level.
3	Cumulonimbus with tops lacking clear-cut outlines but distinctly not cirriform or anvil-shaped with or without Cumulus, Stratocumulus or Stratus.

Low Cloud - Clouds of genera Sc, St, Cu, Cb. (Continued)

- 4 Stratocumulus formed by the spreading out of Cumulus; Cumulus also often present.
- (NOTE: Since the spreading out of the scattered parcels of air that have been warmed by the surface may take place, as in Sc vesp., as soon as the condensation level is reached, observers should be warned that, though Cu may normally have been seen earlier, the formation of a particular piece of Sc vesp. may not come from a Cu).
- 5 Stratocumulus not formed by the spreading out of Cumulus.
- 6 Stratus or Fractostratus or both, but not Fractostratus of bad weather.
- 7 Fractostratus and/or Fractocumulus of bad weather ("Scud") usually under Altostratus and Nimbostratus. (By "bad weather" is meant the conditions usually prevailing before, during or after precipitation).
- 8 Cumulus and Stratocumulus other than those formed by the spreading out of Cumulus, with bases at different levels.
- 9 Cumulonimbus having a clearly fibrous (cirriform) top, often anvil-shaped, with or without Cumulus, Stratocumulus, Stratus or "scud".
- Blank Clouds of genera C, non visible owing to darkness, fog, sandstorm or other analogous phenomena.

Middle Cloud - Clouds of genera Ac, As, Ns.

- 0 No Altocumulus, Altostratus, or Nimbostratus clouds.
- 1 Thin Altostratus (semi-transparent everywhere) through which the sun or moon would be seen dimly as through ground glass.
- 2 Thick Altostratus, or Nimbostratus (through portions of the sheet the position of the sun or moon may be indicated by a light patch).
- 3 Thin (semi-transparent) Altocumulus; cloud elements not changing much; at a single level.
- 4 Thin (semi-transparent) Altocumulus in patches (often almond or fish-shaped); cloud elements continually changing and/or occurring at more than one level.
- 5 Thin (semi-transparent) Altocumulus in bands or in a layer gradually spreading over the sky and usually thickening as a whole; it may become partly opaque or double-layered.

Middle Cloud - Clouds of genera Ac, As, Ns. (Continued)

- 6 Altocumulus formed by the spreading out of Cumulus.
- 7 Any of the following cases:
- (a) double-layered Altocumulus, usually opaque in parts, not increasing.
 - (b) a thick (opaque) layer of Altocumulus, not increasing.
 - (c) Altostratus and Altocumulus both present at the same or different levels.
- 8 Altocumulus in the form of Cumulus-shaped tufts or Altocumulus with turrets.
- 9 Altocumulus of a chaotic sky; generally at different levels; dense Cirrus in patches is usually also present.
- Blank Clouds of genera C_M non visible owing to darkness, fog, sandstorm or other analogous phenomena or owing to the existence of a complete layer of lower cloud.

High Cloud - Clouds of genera Ci, Cs, Cc.

- 0 No Cirrus, Cirrocumulus, or Cirrostratus clouds.
- 1 Filaments or strands of Cirrus, scattered and not increasing (often "Mares' Tails").
- 2 Dense Cirrus in patches or twisted sheaves usually not increasing; possibly but not certainly the remains of the upper part of Cumulonimbus.
- 3 Cirrus, often anvil-shaped; either the remains of the upper portions of Cumulonimbus or part of a distant Cumulonimbus the rest of which is not visible. (If there is doubt as to the Cumulonimbus origin or association, Code C_H = 2 should be used.)
- 4 Cirrus (often hook-shaped) gradually spreading over the sky and usually thickening as a whole.
- 5 Cirrus and Cirrostratus, often in bands converging toward the horizon; or Cirrostratus alone; in either case gradually spreading over the sky and usually thickening as a whole, but the continuous layer not reaching 45 altitude.

High Cloud - Clouds of genera Ci, Cs, Cc. (Continued)

- 6 Cirrus and Cirrostratus, often in bands converging toward the horizon; or Cirrostratus alone; in either case gradually spreading over the sky and usually thickening as a whole and the continuous layer exceeding 45° altitude.
- 7 Cirrostratus covering the whole sky.
- 8 Cirrostratus not increasing and not covering the whole sky; Cirrus and Cirrocumulus may be present.
- 9 Cirrocumulus alone or Cirrocumulus with some Cirrus or Cirrostratus, but the Cirrocumulus being the main cirriform cloud present. (Cirrocumulus may be present in $C_H = 1$ to $C_H = 8$.)
- Blank Clouds of genera C_H non visible owing to darkness, fog, sandstorm or other analogous phenomena or owing to the existence of a complete layer of lower cloud.

CODE FOR HEIGHT, ABOVE GROUND,
OF BASE OF CLOUD.

Code Figure

0	0 to	50 m
1	50 to	100 m
2	100 to	200 m
3	200 to	300 m
4	300 to	600 m
5	600 to	1,000 m
6	1,000 to	1,500 m
7	1,500 to	2,000 m
8	2,000 to	2,500 m
9		No clouds

VALUES OF PRESSURE, TEMPERATURE, PRECIPITATION AND WIND

FOR MONTHS AND YEAR 1951.

TABLE 1 - HEARD ISLAND
(Station 15.5 feet above M.S.L. Lat. 53°S, Long. 73°E)

Month	Mean Pressure (mb) Station Level	Temperature °F						Precipitation		Mean Wind Speed knots	
		Mean			Extreme			Total Points	No. of Days		
		Dry Bulb	Dew Point	Max	Min	Max	Min				
Jan	1001.9	37.6	35.1	41.6	34.8	54.6	32.0	603	23	13.7	
Feb	996.4	38.4	35.5	42.1	35.4	58.0	33.0	707	25	15.3	
Mar	1010.2	38.7	36.7	42.5	35.6	48.7	31.1	610	27	14.8	
Apr	999.6	37.4	34.9	40.6	34.3	49.5	28.0	631	26	15.4	
May	994.4	36.6	33.4	39.9	33.7	46.8	27.1	660	26	15.5	
June	992.5	33.9	30.7	36.9	31.4	43.6	23.8	715	27	14.8	
July	998.0	33.4	29.8	36.7	30.5	43.5	21.5	727	22	16.0	
Aug	996.9	33.5	30.2	36.8	30.2	47.7	23.3	267	19	18.9	
Sep	993.4	31.7	28.2	35.2	27.8	39.8	20.1	327	21	17.8	
Oct	991.8	32.5	28.5	35.2	29.7	40.1	21.9	463	20	15.1	
Nov	988.0	34.5	30.3	37.9	32.0	41.8	28.5	376	17	13.1	
Dec	989.4	36.1	33.2	39.8	33.7	44.6	31.2	588	25	12.9	
Year	996.0	35.4	32.2	38.8	32.4	58.0	20.1	6674	278	15.3	

TABLE 2 - MACQUARIE ISLAND
(Station 20 feet above M.S.L. Lat. 55°S, Long. 159°E)

Jan	1006.2	43.2	41.0	46.3	40.3	49.6	36.9	430	28	19.9
Feb	1001.5	43.7	41.1	46.6	40.4	49.2	34.6	292	24	18.4
Mar	998.1	43.8	41.7	46.8	40.1	50.1	34.8	483	28	24.0
Apr	999.8	41.5	38.4	44.5	38.6	47.2	32.9	438	28	16.7
May	1000.3	39.7	37.2	42.1	36.9	47.9	27.0	307	30	19.9
June	1007.3	37.9	34.9	40.6	33.6	44.9	27.1	270	30	24.2
July	996.3	37.9	35.2	41.0	34.7	44.4	27.9	368	30	19.7
Aug	998.6	37.4	35.2	40.3	34.1	43.8	24.0	327	29	18.6
Sep	997.9	38.7	34.0	42.3	33.0	46.8	18.7	288	30	27.7
Oct	1001.3	37.7	33.1	40.5	34.2	45.2	25.0	244	28	17.2
Nov	994.2	40.4	36.9	43.4	37.3	49.3	30.0	229	21	12.5
Dec	996.7	43.5	39.8	46.7	40.4	52.7	33.4	485	25	12.3
Year	999.9	40.5	37.4	43.4	37.0	52.7	18.7	4161	331	19.3

FREQUENCY ANALYSIS OF STATION LEVEL PRESSURE

TABLE 3. HEARD ISLAND 1951 (15.5 FEET ABOVE MEAN SEA LEVEL)

MBS.	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
950 - 959	00	00	00	01	00	00	00	00	00	00	03	11	015
960 - 969	00	10	00	06	00	07	04	00	08	12	11	06	064
970 - 979	03	12	00	15	05	32	11	04	24	24	61	23	214
980 - 989	26	39	11	29	43	55	40	54	58	62	43	75	535
990 - 999	69	60	60	52	91	79	77	71	70	90	80	95	894
1000 - 1009	94	82	93	85	93	48	86	57	70	36	28	35	807
1010 - 1019	50	21	68	46	16	19	25	49	10	24	14	03	345
1020 - 1029	06	00	16	06	00	00	05	13	00	00	00	00	046

TABLE 4. MACQUARIE ISLAND 1951 (20 FEET ABOVE MEAN SEA LEVEL)

MBS.	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
950 - 959	00	02	00	00	02	00	00	04	02	00	00	00	010
960 - 969	00	06	01	00	11	00	05	10	02	00	06	00	041
970 - 979	00	08	08	00	15	03	22	19	25	09	28	03	140
980 - 989	13	18	54	29	22	13	42	31	29	31	49	62	393
990 - 999	49	55	65	90	66	39	86	51	59	61	77	90	788
1000 - 1009	99	71	84	98	70	97	58	59	88	97	53	78	952
1010 - 1019	72	55	36	23	29	56	20	74	31	41	27	15	480
1020 - 1029	14	09	00	00	33	30	15	00	04	08	00	00	113
1030 - 1039	00	00	00	00	00	02	00	00	00	00	00	00	002

FREQUENCY ANALYSIS OF SCREEN TEMPERATURE

TABLE 5. HEARD ISLAND 1951

DEG. F	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
2 1	00	00	00	00	00	00	00	00	01	00	00	00	001
2 2	00	00	00	00	00	00	00	04	00	02	01	00	007
2 3	00	00	00	00	00	00	01	00	03	01	00	00	005
2 4	00	00	00	00	00	00	03	02	03	06	00	00	014
2 5	00	00	00	00	00	00	03	02	02	09	02	00	018
2 6	00	00	00	00	00	00	02	00	05	04	02	00	013
2 7	00	00	00	00	00	00	10	07	09	13	02	00	041
2 8	00	00	00	00	00	03	06	05	08	07	18	00	047
2 9	00	00	00	00	04	04	03	13	06	09	12	00	051
3 0	00	00	00	00	00	06	09	16	04	21	27	05	090
3 1	00	00	01	04	10	07	25	13	17	30	23	01	131
3 2	01	00	00	08	19	15	18	31	28	30	31	05	186
3 3	02	01	04	10	16	26	22	39	41	38	38	09	246
3 4	06	04	06	06	19	46	33	31	28	27	35	36	277
3 5	34	12	11	21	27	41	28	30	26	24	26	40	320
3 6	54	48	15	37	19	37	15	21	10	22	29	58	365
3 7	47	39	40	33	26	07	13	26	08	07	22	36	304
3 8	36	30	59	35	20	05	14	07	05	04	13	33	261
3 9	27	31	46	27	17	05	16	07	01	00	13	22	212
4 0	11	21	15	23	18	05	09	04	01	01	04	07	119
4 1	11	15	18	12	07	06	02	01	00	00	01	01	074
4 2	09	04	10	07	15	03	01	00	00	00	00	00	049
4 3	01	06	05	03	12	01	00	01	00	00	00	00	029
4 4	03	03	08	05	08	00	00	00	00	00	00	00	027
4 5	01	05	07	02	02	00	00	00	00	00	00	00	017
4 6	00	01	03	01	00	00	00	00	00	00	00	00	005
4 7	01	00	00	02	00	00	00	00	00	00	00	00	003
4 8	01	00	00	00	00	00	00	00	00	00	00	00	001
4 9	02	03	00	00	00	00	00	00	00	00	00	00	005
5 0	01	00	00	00	00	00	00	00	00	00	00	00	001
5 8	00	01	00	00	00	00	00	00	00	00	00	00	001

TABLE 6. MACQUARIE ISLAND 1951

DEG. F	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
2 1	00	00	00	00	00	00	00	00	01	00	00	00	001
2 3	00	00	00	00	00	00	00	00	01	00	00	00	001
2 5	00	00	00	00	00	00	00	00	00	00	00	00	002
2 6	00	00	00	00	00	00	00	01	02	00	00	00	003
2 7	00	00	00	00	00	00	00	03	01	00	00	00	004
2 8	00	00	00	00	00	00	00	01	00	01	04	00	006
2 9	00	00	00	00	00	01	00	00	07	01	07	00	016
3 0	00	00	00	00	05	03	04	07	02	07	01	00	029
3 1	00	00	00	00	03	06	10	03	03	04	03	00	032
3 2	00	00	00	00	01	06	15	02	05	02	01	00	032
3 3	00	00	00	00	00	01	12	13	11	02	17	06	024
3 4	00	00	00	03	06	25	11	19	08	21	06	01	100
3 5	00	00	00	02	14	24	11	18	20	17	13	02	121
3 6	00	00	01	05	16	13	14	13	13	24	13	03	115
3 7	00	01	03	19	13	18	19	18	21	13	10	04	139
3 8	04	01	04	15	23	19	19	17	26	12	10	09	159
3 9	11	04	04	13	30	22	19	33	22	10	16	11	195
4 0	11	06	09	24	25	31	35	36	24	22	21	07	251
4 1	31	23	15	25	27	22	37	40	21	29	34	16	320
4 2	18	19	24	27	21	16	26	16	30	36	30	20	283
4 3	58	33	43	48	24	09	11	02	15	11	35	22	311
4 4	46	51	40	19	19	13	03	00	13	11	19	43	277
4 5	37	51	54	27	13	01	00	00	04	01	14	47	249
4 6	18	27	23	11	02	00	00	00	04	00	04	28	117
4 7	10	06	21	02	04	00	00	00	00	00	03	13	059
4 8	02	01	06	00	00	00	00	00	00	00	01	11	021
4 9	02	01	00	00	00	00	00	00	00	00	00	06	009
5 0	00	00	01	00	00	00	00	00	00	00	00	02	003
5 1	00	00	00	00	00	00	00	00	00	00	00	01	001

FREQUENCY ANALYSIS OF EXTREME SCREEN

TEMPERATURE

TABLE 7.

DEG. F	HEARD ISLAND	MAXIMUM MACQUARIE ISLAND	HEARD ISLAND	MINIMUM MACQUARIE ISLAND
19			00	01
20			01	00
21			01	00
22			04	00
23			06	00
24			05	02
25			01	02
26			10	01
27	01	00	11	03
28			15	06
29	04	00	11	08
30	04	02	26	10
31	05	00	25	21
32	07	01	41	09
33	13	02	53	21
34	14	02	44	23
35	25	03	45	17
36	27	06	31	24
37	39	05	20	35
38	38	13	08	22
39	41	16	05	34
40	32	24	00	39
41	37	31	02	31
42	22	37	00	23
43	10	29	00	22
44	16	31	00	10
45	11	49	00	01
46	05	37		
47	07	37		
48	02	20		
49	01	12		
50	01	04		
51	01	02		
52	00	01		
53	00	01		
55	01	00		
58	01	00		

FREQUENCY ANALYSIS OF TEMPERATURE V DEWPOINT DEPRESSION

TABLE 8. HEARD ISLAND

JAN TO DEC 1951

DEW-POINT DEPRESSION

TABLE 9. MACQUARIE ISLAND JAN TO DEC 1951

JAN TO DEC 1951

DEW-POINT DEPRESSION

FREQUENCY ANALYSIS OF SURFACE WIND DIRECTION

TABLE 10. HEARD ISLAND 1951

DIRECTION	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
CALM	16	14	13	12	10	19	8	02	04	09	16	15	138
360-020	09	03	04	05	13	05	02	08	10	16	09	09	093
030-050	14	08	06	13	21	03	08	12	09	10	21	14	139
060-080	13	06	09	16	23	27	09	06	01	24	17	20	171
090-110	02	05	02	02	03	04	04	00	00	03	04	01	030
120-140	00	00	01	00	00	00	00	00	00	00	00	00	001
150-170	00	01	00	00	01	00	00	01	00	00	03	00	006
180-200	13	01	06	06	14	10	08	15	12	18	38	19	160
210-230	76	53	88	40	35	56	48	59	68	57	46	66	692
240-260	22	31	26	22	26	29	34	33	26	18	12	23	302
270-290	51	64	47	77	55	64	82	91	90	71	44	53	789
300-320	20	33	37	41	39	19	42	17	17	18	22	19	324
330-350	12	05	09	06	08	04	03	04	03	04	08	09	075

TABLE 11. MACQUARIE ISLAND 1951.

DIRECTION	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
	01	07	03	12	10	02	10	13	04	08	30	34	134
CALM	00	00	00	07	02	00	00	01	00	13	15	19	057
360-020	00	00	00	01	01	00	01	02	00	00	01	03	009
030-050	00	00	02	00	00	00	00	00	00	01	01	02	006
060-080	00	00	02	00	00	00	00	00	00	01	01	02	006
090-110	01	00	02	02	01	00	02	07	01	02	10	02	030
120-140	02	06	03	14	13	19	04	15	00	06	13	07	102
150-170	07	07	00	26	06	17	09	25	01	12	28	06	144
180-200	01	05	02	14	08	11	07	05	00	26	19	28	126
210-230	07	06	05	03	30	06	10	07	02	13	09	08	106
240-260	73	52	32	35	45	84	46	32	90	21	12	03	525
270-290	72	59	99	43	51	68	58	60	79	70	32	57	748
300-320	80	55	86	59	69	33	83	68	51	47	26	37	694
330-350	04	27	14	24	12	00	18	13	12	29	44	42	239

ANALYSIS OF SURFACE WIND SPEED

TABLE 12. HEARD ISLAND 1951

KNOTS	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
CALM	0 1 6	0 1 4	0 1 3	0 1 2	0 1 0	0 1 9	0 0 8	0 0 2	0 0 4	0 0 9	0 1 6	0 1 5	0 1 3 8
1 - 9	0 6 4	0 3 4	0 5 1	0 3 5	0 5 3	0 5 2	0 3 3	0 2 1	0 3 3	0 4 8	0 6 7	0 5 7	0 5 4 8
10 - 19	1 0 6	0 8 9	0 9 3	1 0 1	0 7 5	0 7 4	0 8 3	0 7 6	0 7 2	0 8 9	0 9 4	1 0 9	1 0 6 1
20 - 29	0 4 7	0 6 3	0 7 2	0 6 1	0 7 2	0 6 7	0 9 7	0 9 6	0 9 5	0 7 4	0 4 1	0 5 5	0 8 4 0
30 - 39	0 1 4	0 1 8	0 1 8	0 2 2	0 3 1	0 1 7	0 2 0	0 4 5	0 3 4	0 2 2	0 1 6	0 0 9	0 2 6 6
40 - 49	0 0 1	0 0 5	0 0 1	0 0 8	0 0 5	0 1 1	0 0 3	0 0 8	0 0 2	0 0 6	0 0 6	0 0 2	0 0 5 8
50 - 59	0 0 0	0 0 1	0 0 0	0 0 1	0 0 2	0 0 0	0 0 2	0 0 0	0 0 0	0 0 0	0 0 0	0 0 1	0 0 0 7
60 - 69	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 2	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0 2

TABLE 13. MACQUARIE ISLAND 1951

KNOTS	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
CALM	0 0 1	0 0 7	0 0 3	0 1 2	0 1 0	0 0 2	0 1 0	0 1 3	0 6 4	0 0 8	0 3 0	0 3 4	0 1 3 4
1 - 9	0 4 3	0 4 9	0 2 7	0 7 0	0 4 1	0 1 4	0 3 0	0 4 8	0 4 4	0 5 8	0 9 0	0 7 7	0 5 6 1
10 - 19	1 0 5	0 9 8	1 1 1	1 2 1	0 8 5	0 5 1	0 9 8	1 1 4	0 2 6	0 8 3	0 9 1	0 8 1	1 0 6 4
20 - 29	0 9 0	0 6 0	0 6 7	0 3 7	0 7 5	0 9 9	0 7 9	0 5 4	0 8 0	0 7 8	0 2 6	0 5 0	0 7 9 5
30 - 39	0 0 9	0 1 0	0 3 6	0 0 0	0 3 3	0 6 3	0 2 9	0 1 4	0 7 8	0 1 8	0 0 3	0 0 5	0 2 9 8
40 - 49	0 0 0	0 0 0	0 0 4	0 0 0	0 0 4	0 1 1	0 0 2	0 0 5	0 3 4	0 0 3	0 0 0	0 0 1	0 0 6 4
50 - 59	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 4	0 0 0	0 0 0	0 0 0	0 0 0 4

FREQUENCY ANALYSIS OF SPEED OF MAXIMUM
DAILY GUST OF SURFACE WIND

TABLE 14. HEARD ISLAND 1951

KNOTS	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
10 - 19	01	00	00	00	01	00	00	00	00	00	03	02	007
20 - 29	03	01	03	04	05	05	00	01	01	04	02	04	033
30 - 39	11	06	03	03	02	02	03	01	05	03	10	13	062
40 - 49	09	09	15	08	09	10	08	07	05	10	09	08	107
50 - 59	02	07	05	06	05	06	10	07	08	05	03	01	065
60 - 69	03	02	03	09	08	04	05	09	06	06	03	01	059
70 - 79	02	03	02	00	01	03	05	05	04	03	00	02	030
80 - 89	00	00	00	00	00	00	00	00	01	00	00	00	001
90 - 99	00	00	00	00	00	00	00	01	00	00	00	00	001

TABLE 15. MACQUARIE ISLAND 1951

KNOTS	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
01 - 09	00	00	00	00	00	00	00	00	00	00	00	01	001
10 - 19	00	05	00	02	03	00	01	04	01	03	08	08	035
20 - 29	05	05	06	16	08	02	05	11	01	07	12	06	084
30 - 39	16	08	06	11	04	09	11	11	05	10	06	07	104
40 - 49	08	08	09	01	13	14	08	02	09	07	00	07	086
50 - 59	01	02	07	00	03	05	05	02	09	01	01	02	038
60 - 69	01	00	03	00	00	00	00	01	04	02	00	00	011
70 - 79	00	00	00	00	00	00	00	00	01	00	00	00	001

FREQUENCY ANALYSIS OF DAILY PRECIPITATION

TABLE 16. HEARD ISLAND 1951

POINTS	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
NIL	07	02	04	04	05	03	09	12	09	11	13	06	085
001-009	09	12	13	09	12	10	05	11	10	06	05	10	112
010-019	03	03	02	05	04	05	05	03	04	06	07	02	049
020-029	03	01	03	04	01	02	04	02	04	02	01	07	034
030-039	02	02	02	02	03	03	01	01	01	02	00	01	020
040-049	04	01	02	02	02	04	02	02	00	01	00	02	022
050-059	01	02	01	01	00	01	01	00	01	01	02	00	011
060-069	00	01	03	01	00	00	00	00	01	00	02	01	009
070-079	01	02	01	00	02	00	01	00	00	02	00	00	009
080-089	00	00	00	00	00	00	00	00	00	00	00	02	002
090-099	01	00	00	02	01	00	02	00	00	00	00	00	006
100-109	00	00	00	00	00	01	00	00	00	00	00	00	001
110-119	00	00	00	00	00	01	00	00	00	00	00	00	001
120-129	00	00	00	00	00	00	00	01	00	00	00	00	001
130-139	00	00	00	00	00	00	00	00	00	00	00	00	000
140-149	00	00	00	00	00	00	00	00	00	00	00	00	000
150-159	00	00	00	00	00	00	00	00	00	00	00	00	000
160-169	00	00	00	00	01	00	00	00	00	00	00	00	001
170-179	00	01	00	00	00	00	00	00	00	00	00	00	001

TABLE 17. MACQUARIE ISLAND 1951

POINTS	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
NIL	03	04	03	02	01	00	01	02	00	03	09	06	034
001-009	17	14	14	17	18	21	15	20	20	22	12	14	204
010-019	05	05	05	05	07	04	11	03	06	03	05	05	064
020-029	02	03	05	02	03	03	01	03	02	01	03	01	029
030-039	01	01	01	02	01	01	02	02	01	01	01	03	017
040-049	01	00	00	00	01	01	01	01	01	00	00	00	006
050-059	00	00	00	01	00	00	00	00	00	01	00	00	002
060-069	00	00	02	00	00	00	00	00	00	00	00	00	002
070-079	01	01	00	00	00	00	00	00	00	00	00	01	003
080-089	00	00	00	00	00	00	00	00	00	00	00	00	000
090-099	01	00	00	00	00	00	00	00	00	00	00	00	001
100-109	00	00	01	00	00	00	00	00	00	00	00	00	001
110-119	00	00	00	00	00	00	00	00	00	00	00	00	000
120-129	00	00	00	00	00	00	00	00	00	00	00	00	000
130-139	00	00	00	00	00	00	00	00	00	00	00	00	000
140-149	00	00	00	00	00	00	00	00	00	00	00	01	001
150-159	00	00	00	01	00	00	00	00	00	00	00	00	001

FREQUENCY ANALYSIS OF DAILY SUNSHINE DURATION

TABLE 18. HEARD ISLAND 1951

HOURS	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
NIL	10	08	11	14	18	15	15	14	10	09	12	12	148
0 1 - 0 9	08	06	10	04	02	08	07	04	08	09	04	07	077
1 0 - 1 9	05	03	04	01	05	03	04	06	04	01	02	03	041
2 0 - 2 9	02	04	01	01	02	04	02	04	01	05	03	02	031
3 0 - 3 9	02	01	01	02	02	00	02	03	02	03	01	00	019
4 0 - 4 9	01	01	01	03	02	00	01	00	02	01	00	03	015
5 0 - 5 9	01	01	00	02	00	00	00	00	00	02	01	01	008
6 0 - 6 9	00	01	02	02	00	00	00	00	01	01	01	00	008
7 0 - 7 9	01	00	00	01	00	00	00	00	01	00	02	03	008
8 0 - 8 9	00	01	00	00	00	00	00	00	01	00	03	00	005
9 0 - 9 9	00	00	01	00	00	00	00	00	00	00	01	00	002
100 - 109	01	00	00	00	00	00	00	00	00	00	00	00	001

TABLE 19. MACQUARIE ISLAND 1951

HOURS	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
NIL	06	12	06	09	11	17	11	14	18	08	09	10	131
0 1 - 0 9	05	01	03	05	07	06	08	04	04	10	05	03	061
1 0 - 1 9	04	02	03	07	03	04	04	02	02	05	01	03	040
2 0 - 2 9	02	00	03	02	05	02	05	02	02	02	02	03	030
3 0 - 3 9	02	04	03	01	03	01	01	05	00	00	01	02	023
4 0 - 4 9	01	00	04	02	01	00	00	02	01	02	04	05	022
5 0 - 5 9	03	02	04	03	01	00	01	01	01	00	01	01	018
6 0 - 6 9	00	01	04	00	00	00	00	01	02	01	00	00	009
7 0 - 7 9	02	01	00	01	00	00	00	00	00	00	03	02	009
8 0 - 8 9	03	00	01	00	00	00	00	00	00	02	01	00	007
9 0 - 9 9	02	02	00	00	00	00	00	00	00	00	00	00	004
100 - 109	01	01	00	00	00	00	00	00	00	00	00	02	004
110 - 119	00	02	00	00	00	00	00	00	00	00	00	00	002

FREQUENCY ANALYSIS OF UPPER AIR TEMPERATURE

TABLE 20. HEARD ISLAND 1951. 850 MB

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-20	-	-16	00	00	00	00	00	00	00	01	00	00	00	001
-15	-	-11	00	00	00	00	02	04	08	07	08	08	02	00
-10	-	-6	10	13	10	17	11	15	13	12	15	16	18	19
-5	-	0	05	06	10	08	11	06	04	08	04	07	08	11
0	-	+4	13	02	09	04	04	05	06	04	02	00	01	01
+5	-	+9	03	04	02	01	03	00	00	00	00	00	01	04

TABLE 21. MACQUARIE ISLAND 1951. 850 MB

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-15	-	-11	00	00	00	00	00	02	02	01	01	02	00	00
-10	-	-6	04	00	05	06	07	07	05	09	13	11	04	03
-5	-	0	08	16	17	11	09	17	19	17	13	09	15	14
0	-	+4	17	09	09	12	08	03	05	04	03	09	10	11
+5	-	+9	05	04	02	00	00	00	00	00	00	00	01	03
+10	-	+14	02	01	01	00	00	00	00	00	00	00	00	004

TABLE 22. HEARD ISLAND 1951. 700 MB

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-30	-	-26	00	00	00	00	00	00	00	01	00	00	00	001
-25	-	-21	00	00	00	00	00	03	07	03	06	04	00	023
-20	-	-16	03	04	02	09	09	08	07	10	09	15	09	08
-15	-	-11	05	06	04	08	06	08	07	04	10	06	13	14
-10	-	-6	05	06	09	07	06	08	07	10	02	06	06	08
-5	-	0	13	08	13	06	08	03	02	04	01	00	02	01
0	-	+4	05	01	02	00	00	00	00	00	00	00	00	008

TABLE 23. MACQUARIE ISLAND 1951. 700 MB

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-25	-	-21	00	00	00	00	00	01	01	00	02	00	00	00
-20	-	-16	00	01	02	03	02	05	02	04	07	06	01	00
-15	-	-11	08	07	10	03	07	05	13	09	07	04	09	08
-10	-	-6	04	06	14	14	12	14	14	18	14	17	10	13
-5	-	0	19	14	06	09	03	04	00	00	00	04	09	10
0	-	+4	04	02	02	00	00	00	00	00	00	00	01	00

FREQUENCY ANALYSIS OF UPPER AIR TEMPERATURE

TABLE 24. HEARD ISLAND 1951. 500 MB

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-45	-	-41	00	00	00	00	00	02	01	00	00	00	00	003
-40	-	-36	00	00	00	02	00	02	05	02	06	05	00	01
-35	-	-31	04	02	01	03	07	06	06	07	11	12	05	09
-30	-	-26	03	05	04	06	05	08	07	07	10	08	09	12
-25	-	-21	09	07	08	12	12	07	09	10	00	04	09	08
-20	-	-16	08	09	12	05	03	03	00	02	00	01	05	01
-15	-	-11	08	01	05	00	00	00	00	00	00	00	01	00
														015

TABLE 25. MACQUARIE ISLAND 1951. 500 MB

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-40	-	-36	00	00	01	00	01	00	02	03	03	00	01	00
-35	-	-31	00	03	01	00	00	04	04	04	06	03	00	02
-30	-	-26	06	03	07	06	09	14	19	18	08	12	09	07
-25	-	-21	04	09	13	19	14	11	05	06	10	13	13	11
-20	-	-16	19	09	12	03	00	00	00	00	02	03	06	05
-15	-	-11	05	06	00	00	00	00	00	00	00	00	01	06
														018

TABLE 26. HEARD ISLAND 1951. 300 MB

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-65	-	-61	00	00	00	01	00	01	01	00	00	00	00	003
-60	-	-56	00	00	00	01	02	04	06	03	06	06	00	00
-55	-	-51	01	04	02	05	06	10	17	18	13	14	05	08
-50	-	-46	06	04	12	12	13	10	02	05	06	08	12	15
-45	-	-41	16	11	14	04	00	02	00	01	00	02	09	05
-40	-	-36	05	02	02	01	00	00	00	00	00	00	03	01
-35	-	-31	02	00	00	00	00	00	00	00	00	00	00	002

TABLE 27. MACQUARIE ISLAND 1951. 300 MB

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-65	-	-61	00	00	00	00	00	00	00	01	00	00	00	00
-60	-	-56	00	00	00	00	02	04	08	15	03	02	00	00
-55	-	-51	01	01	06	07	14	15	16	13	17	16	05	04
-50	-	-46	13	07	16	20	07	06	02	02	08	09	19	10
-45	-	-41	17	17	09	00	01	03	00	00	00	03	04	16
-40	-	-36	03	04	02	00	00	00	00	00	00	01	01	01
-35	-	-31	00	00	00	00	00	00	00	00	00	00	01	00
														001

FREQUENCY ANALYSTS OF UPPER AIR TEMPERATURE

TABLE 28. HEARD ISLAND 1951. 200 MB

DEG. C.		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-75 -	-71	00	00	00	00	00	00	01	02	05	00	00	00	00
-70 -	-66	00	00	00	01	02	05	02	05	00	02	00	00	017
-65 -	-61	00	00	02	04	07	01	05	05	01	05	02	00	032
-60 -	-56	05	04	10	05	06	05	10	04	10	11	01	01	072
-55 -	-51	06	04	06	04	04	08	04	05	12	07	00	02	062
-50 -	-46	07	02	04	04	02	04	01	00	02	04	08	11	049
-45 -	-41	05	06	05	03	00	01	00	00	00	01	11	12	044
-40 -	-36	01	01	00	00	00	00	00	00	00	00	04	02	008
-35 -	-31	01	00	00	00	00	00	00	00	00	00	00	00	001

TABLE 29. MACQUARIE ISLAND 1951. 200 MB

DEG. C.		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-75 -	-71	00	00	00	00	00	00	03	01	08	00	00	00	00
-70 -	-66	00	00	00	01	02	04	04	06	07	00	00	00	024
-65 -	-61	05	00	01	05	05	09	04	09	07	01	02	02	050
-60 -	-56	08	04	03	09	07	05	08	07	10	02	03	06	072
-55 -	-51	08	07	13	04	07	04	08	00	03	08	07	03	072
-50 -	-46	08	06	06	07	02	02	01	00	00	10	10	07	059
-45 -	-41	04	06	06	01	00	00	00	00	00	08	05	11	041
-40 -	-36	00	02	00	00	00	00	00	00	00	01	01	01	005
-35 -	-31	00	00	00	00	00	00	00	00	00	00	01	00	001

TABLE 30. HEARD ISLAND 1951. 100 MB

DEG. C.		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-70 -	-66	00	00	00	00	00	00	01	01	04	00	01	00	00
-65 -	-61	00	00	00	00	01	06	03	07	01	02	00	00	020
-60 -	-56	00	01	05	04	06	09	07	08	04	04	00	00	048
-55 -	-51	04	03	09	12	10	05	03	02	02	05	00	00	055
-50 -	-46	10	06	05	04	01	01	00	01	04	05	06	04	047
-45 -	-41	05	05	00	00	00	00	00	00	02	04	15	17	048
-40 -	-36	01	00	00	00	00	00	00	00	00	01	04	07	013
-35 -	-31	01	00	00	00	00	00	00	00	00	00	00	00	001

TABLE 31. MACQUARIE ISLAND 1951. 100 MB

DEG. C.		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-70 -	-66	00	00	00	00	00	00	01	02	03	01	00	00	00
-65 -	-61	00	00	00	00	00	02	02	09	09	00	00	00	022
-60 -	-56	00	03	01	03	10	15	08	17	09	00	00	00	066
-55 -	-51	14	10	15	20	09	06	10	01	07	00	03	05	100
-50 -	-46	16	09	08	02	01	00	00	00	00	06	19	12	073
-45 -	-41	00	02	00	00	00	00	00	00	00	17	00	09	028
-40 -	-36	00	01	01	00	00	00	00	00	00	05	00	00	007

FREQUENCY ANALYSIS OF TROPOPAUSE DATA

TABLE 32. HEARD ISLAND 1951. TEMPERATURE

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-80	-	-76	00	00	00	00	00	00	02	00	00	00	00	002
-75	-	-71	00	00	00	00	00	02	03	04	00	01	00	00
-70	-	-66	00	00	01	01	04	04	04	05	00	03	00	00
-65	-	-61	03	00	07	09	08	05	07	06	05	07	03	00
-60	-	-56	08	07	06	05	05	06	06	03	13	11	04	07
-55	-	-51	05	05	03	01	03	05	04	04	05	06	06	09
-50	-	-46	05	04	09	04	00	02	00	00	02	02	10	10
-45	-	-41	01	02	03	01	00	00	00	00	00	00	03	03
-40	-	-36	02	01	00	01	00	00	00	00	00	00	00	004

TABLE 33. MACQUARIE ISLAND 1951. TEMPERATURE

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-80	-	-76	00	00	00	00	00	02	00	00	01	00	00	00
-75	-	-71	00	00	00	00	00	01	02	07	00	00	00	00
-70	-	-66	01	00	01	02	03	08	04	10	08	00	01	00
-65	-	-61	04	02	01	12	07	07	08	08	06	06	02	05
-60	-	-56	12	06	15	06	09	07	08	04	03	10	06	04
-55	-	-51	07	05	02	03	04	00	03	01	04	09	10	10
-50	-	-46	06	05	07	01	00	01	01	00	00	04	08	07
-45	-	-41	01	03	01	00	00	00	00	00	00	02	00	04
-40	-	-36	00	00	00	00	00	00	00	00	00	00	01	00

TABLE 34. HEARD ISLAND 1951. PRESSURE

MB.		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
150	- 199	01	00	03	01	03	02	03	08	00	06	01	00	028
200	- 249	11	07	14	10	12	10	10	10	08	13	04	03	112
250	- 299	04	06	06	04	02	07	09	04	12	06	13	12	085
300	- 349	07	03	06	04	03	02	02	02	04	05	04	12	054
350	- 399	01	03	00	03	00	03	00	00	01	00	04	02	017

TABLE 35. MACQUARIE ISLAND 1951. PRESSURE

MB.		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
50	- 99	00	00	00	00	02	01	02	02	00	00	01	00	008
100	- 149	05	03	01	00	00	00	01	02	01	00	01	02	016
150	- 199	03	06	05	02	01	05	03	01	01	00	02	04	033
200	- 249	15	04	08	16	11	12	08	18	15	06	05	07	125
250	- 299	06	03	10	06	07	07	09	06	02	18	11	10	095
300	- 349	02	03	03	00	01	01	03	01	03	06	07	03	033
350	- 399	00	02	00	00	01	00	00	00	00	01	01	04	009

FREQUENCY ANALYSIS OF TROPOPAUSE DATA

GPM.10	GEOPOTENTIAL												TOTAL	
	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC		
650 - 699	00	00	00	00	00	00	01	00	00	00	00	01	00	002
700 - 749	01	03	00	03	00	02	00	00	01	00	02	02	014	
750 - 799	02	01	01	00	00	00	00	00	01	02	01	02	010	
800 - 849	04	02	02	03	00	02	02	02	03	02	03	09	034	
850 - 899	01	01	04	03	04	02	02	00	01	01	07	02	028	
900 - 949	01	01	00	01	01	03	03	02	05	02	01	07	027	
950 - 999	02	03	04	00	01	02	05	03	07	04	06	03	040	
1000 - 1049	02	01	04	04	03	04	05	00	06	10	01	03	043	
1050 - 1099	03	02	05	04	03	01	00	05	01	03	00	00	027	
1100 - 1149	02	04	05	02	04	03	04	04	00	02	02	01	033	
1150 - 1199	05	01	01	01	01	03	03	07	00	02	02	00	026	
1200 - 1249	00	00	03	00	03	01	00	01	00	02	00	00	010	
1250 - 1299	01	00	00	01	00	00	00	00	00	00	00	00	002	

GPM.10	GEOPOTENTIAL												TOTAL	
	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC		
650 - 699	00	00	00	00	00	00	00	00	00	00	01	00	001	
700 - 749	00	00	00	00	01	00	00	00	00	00	00	02	003	
750 - 799	00	02	00	00	00	00	00	01	00	00	01	00	006	
800 - 849	00	02	02	00	00	00	00	01	01	02	02	04	015	
850 - 899	02	01	01	02	01	00	03	02	03	06	03	02	026	
900 - 949	00	01	04	02	03	01	02	02	00	02	03	06	026	
950 - 999	04	02	04	02	05	06	05	04	01	12	06	01	052	
1000 - 1049	04	01	05	03	02	05	03	04	03	05	03	03	041	
1050 - 1099	04	02	03	07	02	02	04	05	07	02	04	01	043	
1100 - 1149	02	01	02	03	05	06	01	07	03	01	00	06	037	
1150 - 1199	08	00	00	04	01	02	01	01	01	00	00	00	018	
1200 - 1249	01	01	01	01	01	03	02	00	01	00	02	03	016	
1250 - 1299	00	01	00	00	00	00	00	00	00	00	00	00	001	
1300 - 1349	00	01	02	00	00	00	00	01	01	00	00	00	006	
1350 - 1399	01	04	02	00	00	00	00	00	00	00	00	00	007	
1400 - 1449	04	02	00	00	00	00	00	00	00	00	00	01	007	
1450 - 1499	01	00	01	00	00	00	00	00	00	00	00	00	002	
1500 - 1549	00	00	00	00	00	00	00	00	01	00	01	00	002	
1550 - 1599	00	00	00	00	00	00	00	01	00	00	00	00	001	
1600 - 1649	00	00	00	00	00	00	00	00	00	00	00	01	001	
1650 - 1699	00	00	00	00	00	00	00	00	01	00	00	00	001	
1700 - 1749	00	00	00	00	02	00	01	01	00	00	00	00	004	
1750 - 1799	00	00	00	00	00	01	00	00	00	00	01	00	002	
1800 - 1849	00	00	00	00	00	00	00	00	00	00	00	00	000	
1850 - 1899	00	00	00	00	00	00	00	01	00	00	00	00	001	

RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF

HEARD ISLAND
JANUARY 1951

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB		WET BULB		DEWPONT	WIND DIRECTION	WIND SPEED * x10	VISIBILITY VV	TOTAL CLOUD Oktas	PRESENT WEATHER	FAST WEATHER AMOUNT	LOW CLOUD TYPE		CLOUD DIRECTION		MAXIMUM TEMPERATURE, °F	MINIMUM TEMPERATURE, °F	PRECIPITATION Points	ANEMOMETER Miles	MAXIMUM GUST		SUNSHINE Hours						
			Mbs.	"F	"F	"F								Okta	C _L	h	C _M	C _H	C _L	C _M	C _H	DIRECTION * x10	SPEED Kts.							
01	02	9958	50	55	30	29	20	82	6	01	2	6	5	4	0	0	6	6	6	6	6	9	41	35	0000	314	29	46	046	
01	05	9959	50	53	29	27	14	81	8	02	2	8	5	4	0	0	6	6	6	6	6	6	6	41	35	0000	314	29	46	046
01	06	9987	56	54	31	26	17	81	8	02	1	4	8	4	3	1	9	6	6	6	6	6	6	41	35	0000	314	29	46	046
01	11	0006	58	56	33	29	16	82	7	01	1	7	2	4	0	5	5	5	5	5	5	5	6	42	37	0033	417	29	56	003
01	14	0022	40	37	32	29	11	03	6	03	1	4	2	5	0	5	5	5	5	5	5	5	6	41	36	0007	435	29	47	016
01	17	0014	39	37	34	31	07	81	8	05	2	8	8	5	2	2	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
01	20	0003	57	57	36	35	04	32	8	61	6	6	6	6	0	5	5	5	5	5	5	5	6	41	35	0000	314	29	46	046
01	23	9970	57	57	36	36	01	12	81	8	63	6	6	6	0	5	5	5	5	5	5	5	6	41	35	0000	314	29	46	046
02	02	9928	57	57	36	36	12	24	8	61	6	6	6	0	5	5	5	5	5	5	5	5	6	42	37	0033	417	29	56	003
02	06	9890	58	58	38	38	00	00	40	8	61	6	6	0	3	2	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
02	08	9867	59	59	39	39	06	40	8	61	6	6	6	0	2	2	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
02	11	9844	41	41	41	41	31	21	40	8	50	6	6	6	0	2	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
02	14	9848	41	41	41	41	31	22	40	8	50	5	5	5	0	2	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
02	17	9845	42	41	40	40	29	18	80	8	02	5	8	7	2	2	2	2	2	2	2	2	6	42	37	0033	417	29	56	003
02	20	9878	42	39	36	36	29	31	64	8	05	2	8	8	4	2	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
02	23	9918	40	38	34	34	29	31	80	8	02	2	8	8	4	2	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
03	05	9964	59	57	37	37	19	81	6	01	2	6	6	4	0	2	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
03	06	0013	40	38	35	34	29	28	81	8	09	3	8	8	4	0	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
03	11	0039	40	38	35	35	27	17	82	7	02	2	7	8	4	0	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
03	14	0077	59	58	36	36	27	18	82	8	02	8	8	8	4	0	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
03	17	0084	59	58	37	37	27	17	80	8	05	1	6	6	4	0	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
03	20	0104	58	58	37	37	27	17	80	8	05	2	6	6	4	0	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
03	23	0107	56	56	36	36	25	07	40	8	50	5	8	8	4	0	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
04	02	0101	57	56	36	36	27	10	24	8	63	6	6	6	0	3	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
04	05	0061	57	57	37	37	00	00	24	8	62	6	6	6	0	3	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
04	08	0045	59	59	39	39	00	00	16	8	53	6	6	6	0	2	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
04	11	0030	59	59	39	39	03	04	06	8	51	6	6	6	0	2	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
04	14	0001	57	57	37	37	04	03	06	8	55	6	6	6	0	2	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
04	17	9963	58	58	38	38	00	00	16	8	55	6	6	6	0	2	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
04	20	9902	43	43	43	43	04	07	08	8	63	6	6	6	0	2	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
04	23	9847	42	42	42	42	05	10	10	8	63	6	6	6	0	2	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
05	02	9795	47	47	46	34	34	18	32	8	51	6	6	6	0	3	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
05	05	9761	41	40	40	31	21	32	8	51	5	5	5	0	4	2	2	2	2	2	2	2	6	42	37	0033	417	29	56	003
05	08	9798	36	34	30	27	35	80	8	02	2	8	8	4	0	0	0	0	0	0	0	0	6	41	36	0007	435	29	47	016
05	11	9884	36	33	30	27	35	80	8	02	2	8	8	4	0	0	0	0	0	0	0	0	6	41	36	0007	435	29	47	016
05	14	9951	36	34	31	23	36	61	4	7	03	2	7	2	4	0	0	0	0	0	0	0	6	41	36	0007	435	29	47	016
05	17	0006	56	56	34	31	23	31	81	7	03	2	7	2	4	0	0	0	0	0	0	0	6	41	36	0007	435	29	47	016
05	20	0046	55	55	34	31	23	31	81	5	02	1	5	8	4	0	0	0	0	0	0	0	6	41	36	0007	435	29	47	016
05	23	0072	55	55	33	30	23	16	81	7	02	1	7	5	4	0	0	0	0	0	0	0	6	41	36	0007	435	29	47	016
06	01	0100	34	34	34	22	05	02	07	82	5	01	2	4	0	0	0	0	0	0	0	0	6	41	36	0007	435	29	47	016
06	04	0097	37	37	36	36	25	05	02	08	71	6	8	8	2	0	0	0	0	0	0	0	6	41	36	0007	435	29	47	016
06	07	0082	34	34	34	34	25	08	08	71	6	8	8	2	0	0	0	0	0	0	0	0	6	41	36	0007	435	29	47	016
06	10	0060	36	36	36	36	00	00	40	8	20	7	8	8	4	0	0	0	0	0	0	0	6	41	36	0007	435	29	47	016
06	13	0055	37	37	35	35	22	22	40	8	50	7	8	8	4	0	0	0	0	0	0	0	6	41	36	0007	435	29	47	016
07	07	0055	36	35	34	34	27	24	40	8	53	5	5	5	0	4	2	2	2	2	2	2	6	41	36	0007	435	29	47	016
07	10	0044	35	35	34	34	27	23	40	8	58	6	6	6	0	4														

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF JANUARY 1951

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	TYPE	HEIGHT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE			
						DIRECTION	SPEED * x 10	Kts.	VV	Oktas	WW	W	Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	*F	*F	Points	Miles	* x 10	Kts.	
LST.	Mbs.	*F	*F	*F	*F	* x 10	Kts.	VV	Oktas	WW	W	Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	*F	*F	Points	Miles	* x 10	Kts.	Hours	
11	0 2	00 22	3 8	3 7	3 7	2 2	0 3	4 0	8	5 1	5	8	6	3													
11	0 5	00 55	3 5	3 5	3 5	2 1	1 0	4 8	8	4 1	5	8	6	1													
11	0 8	00 36	3 5	3 5	3 5	2 2	0 8	3 2	8	4 1	4	8	6	1													
11	1 1	00 41	3 6	3 5	3 5	2 3	0 7	7 2	8	0 2	4	7	6	2	1												
11	1 4	00 36	3 7	3 6	3 6	0 6	0 2	7 2	8	6 0	6	8	6	1													
11	1 7	00 20	3 6	3 6	3 5	0 5	0 8	7 2	8	6 0	6	6	6	2	2												
11	2 0	9 9 7 9	3 7	3 7	3 6	0 6	1 7	6 4	8	6 1	6	3	6	3	2												
11	2 3	9 9 4 3	3 8	3 7	3 5	0 6	2 5	5 4	8	5 1	6	6	4	2													
12	0 2	9 9 4 1	3 9	3 7	3 6	0 0	0 0	7 2	8	5 0	5	7	6	4	2												
12	0 5	9 9 5 6	3 5	3 5	3 5	2 3	1 0	2 4	8	4 1	8	8	6	1													
12	0 8	9 9 8 4	3 5	3 5	3 5	2 3	0 3	6 4	8	0 2	4	8	6	1													
12	1 1	9 9 9 7	3 6	3 6	3 6	0 0	0 0	0 2	8	4 7	4	9	6	0													
12	1 4	9 9 9 7	3 6	3 6	3 6	5 2	0 3	0 8	8	1 0	4	8	6	0													
12	1 7	9 9 8 0	3 6	3 6	3 6	5 5	0 4	8 0	8	5 0	4	1	6	5	7												
12	2 0	9 9 6 1	3 7	3 6	3 4	0 4	0 7	8 1	8	0 2	6	7	6	2	7												
12	2 3	9 9 5 3	3 6	3 6	3 6	0 6	0 8	3 2	8	6 2	6	8	0	2	2												
13	0 2	9 9 1 7	3 8	3 7	3 6	3 2	1 4	8 1	3	0 1	5	3	5	4	0												
13	0 5	9 9 0 5	3 7	3 6	3 4	0 4	0 8	0 0	8	0 2	2	3	5	6	2	7											
13	0 8	9 8 9 7	3 9	3 8	3 6	3 0	1 2	8 1	8	0 2	2	8	8	4													
13	1 1	9 8 9 0	3 9	3 8	3 7	3 2	1 4	8 0	8	2 5	5	8	8	5													
13	1 4	9 8 8 1	4 0	3 8	3 6	2 9	1 7	8 1	7	0 2	5	7	8	4													
13	1 7	9 8 7 4	3 9	3 7	3 4	2 9	1 8	8 0	8	0 2	2	8	8	4													
13	2 0	9 8 7 9	3 8	3 6	3 3	2 2	1 9	8 1	8	0 2	2	8	8	4													
13	2 3	9 8 8 8	3 8	3 5	3 1	2 2	2 0	8 1	5	0 1	2	5	8	4													
14	0 2	9 8 8 2	3 7	3 6	3 2	2 8	1 5	8 0	8	0 2	2	8	8	4													
14	0 5	9 9 0 2	3 7	3 5	3 3	2 8	1 5	8 0	8	0 2	2	7	8	4													
14	0 8	9 9 1 5	3 7	3 6	3 5	2 9	1 4	8 0	8	0 2	2	8	8	4													
14	1 1	9 9 3 5	3 7	3 5	3 3	2 5	1 6	8 0	8	0 2	2	8	8	4													
14	1 4	9 9 5 0	3 7	3 5	3 1	2 7	1 9	8 1	7	0 2	1	7	8	4													
14	1 7	9 9 6 6	3 7	3 4	3 0	2 7	1 9	8 1	7	0 3	1	1	1	4	3												
14	2 0	9 9 7 7	3 6	3 4	3 1	2 9	2 0	8 1	7	0 2	2	6	8	4													
14	2 3	9 9 9 6	3 5	3 3	3 1	2 7	1 4	8 1	7	0 2	2	7	8	4													
15	0 2	0 0 0 4	3 5	3 3	3 1	2 7	1 6	8 1	8	0 2	2	8	8	4													
15	0 5	0 0 1 1	3 5	3 4	3 2	2 7	1 7	8 1	7	0 2	2	7	8	4													
15	0 8	0 0 2 4	3 5	3 5	3 0	2 7	1 5	8 2	8	0 2	2	8	8	4													
15	1 1	0 0 3 1	3 7	3 5	3 2	2 4	1 0	8 2	7	0 2	2	7	8	4													
15	1 4	0 0 3 8	3 8	3 5	3 2	2 4	1 4	8 2	7	0 2	2	7	8	4													
15	1 7	0 0 5 1	3 6	3 4	3 1	2 3	1 7	8 2	7	0 2	2	7	8	4													
15	2 0	0 0 6 7	3 4	3 4	3 4	2 4	1 8	2 4	8	2 6	2	8	8	4													
15	2 3	0 0 8 2	3 2	3 2	3 2	2 4	1 0	8 0	5	0 1	5	5	5	4	0												
16	0 2	0 0 9 3	3 5	3 3	3 1	2 2	1 6	8 1	8	0 2	2	8	8	4													
16	0 5	0 0 9 2	3 5	3 4	3 2	2 4	1 6	8 1	8	0 2	2	8	8	4													
16	0 8	0 0 9 0	3 6	3 5	3 2	2 4	1 7	6 4	8	2 6	8	8	8	4													
16	1 1	0 0 8 7	3 6	3 5	3 5	2 5	1 6	4 0	8	2 0	7	8	8	4													
16	1 4	0 0 9 2	3 7	3 5	3 5	2 4	2 4	4 0	8	0 2	2	8	8	4													
16	1 7	0 0 1 0	3 6	3 5	3 5	2 1	2 4	3 2	8	5 1	5	5	5	4													
16	2 0	0 0 1 1	3 6	3 5	3 5	2 1	2 4	3 2	8	5 0	5	5	5	4													
16	2 3	0 0 1 8	3 7	3 6	3 5	2 3	1 6	8 1	8	5 3	8	8	8	4													
17	0 2	0 0 1 1	3 7	3 6	3 5	2 3	1 5	2 4	8 0	5 5	5	5	5	4													
17	0 5	0 0 1 2	3 6	3 5	3 5	2 2	1 5	1 6	8 0	5 5	5	5	5	4													
17	0 8	0 0 1 4	3 7	3 6	3 5	2 2	1 6	6 4	8	0 2	5	6	6	2													
17	1 1	0 0 1 2	3 7	3 6	3 5	2 2	1 6	6 4	8	0 5	2	8	8	4													
17	1 4	0 0 1 8	3 7	3 6	3 5	2 3	1 6	4 0	8	2 1	1	2	1	1	1												
17	1 7	0 0 1 0	3 8	3 7	3 6	2 3	1 6	4 0	8	5 0	5	8	8	4													
17	2 0	0 0 1 0	3 8	3 7	3 6	2 2	1 6	4 0	8	5 0	5	8	8	4													
17	2 3	0 0 1 0	3 8	3 7	3 6	2 2	1 6	4 0	8	5 1	4	9	9</														

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF HEARD ISLAND
JANUARY 1951**

DAY	HOUR	STATION LEVEL PRESSURE	WIND												PRESENT WEATHER	PAST WEATHER	AMOUNT	TYPE	LOW CLOUD	MIDDLE CLOUD	HIGH CLOUD	CLOUD DIRECTION	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST	SPEED	SUNSHINE
			DRY BULB	WET BULB	DEN POINT	DIRECTION	SPEED	VISIBILITY	TOTAL CLOUD	OKTAS	WW	W	OKTAS	C _L	h	C _M	C _H	C _L	C _M	C _H	LOW	MIDDLE	HIGH	DIRECTION	Points	Miles	*x10 Kts.	Hours	
1	0 2	9 9 3 9	3 6	3 5	3 5	2 3	1 0	6 4	8	6 1	6	8	2 1	1	N N N	6	6	2	9	9									
2	0 5	9 9 5 0	3 5	3 5	3 5	2 0	1 8	6 4	8	2 1	6	8	7	8	4	4	4	7	5	9									
2	0 8	9 9 6 8	3 6	3 4	3 2	2 2	1 7	8 0	8	2 5	6	8	8	8	8	4	4	0	0	0									
2	1 1	9 9 8 1	3 7	3 5	3 4	2 5	1 6	4 8	8	8 5	6	8	8	8	8	4	4	0	0	0									
2	1 4	9 9 9 6	3 8	3 7	3 5	2 1	1 3	8 1	8	8 0	6	8	8	8	8	4	4	0	0	0									
2	1 7	0 0 1 7	3 7	3 6	3 4	2 0	1 7	8 1	8	8 0	6	8	8	8	8	4	4	0	0	0									
2	2 0	0 0 4 1	3 6	3 5	3 3	2 0	2 0	8 2	8	8 2	6	8	8	8	8	4	4	0	0	0									
2	2 1	0 0 6 4	3 6	3 4	3 2	2 1	1 8	8 0	8	2 5	6	8	8	8	8	4	4	3	0	0									
2	2 2	0 0 8 7	3 5	3 5	3 2	2 3	2 0	8 1	8	8 2	6	8	8	8	8	4	4	0	0	0									
2	2 5	0 1 0 6	3 5	3 4	3 1	2 0	0 7	8 2	8	6 0	6	8	8	8	8	4	4	0	0	0									
2	2 8	0 1 1 0	3 7	3 5	3 4	2 2	0 4	8 2	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	2 1	0 1 0 8	3 9	3 9	3 8	3 2	0 2	8 4	8	5 8	6	8	8	8	8	4	4	2	2	0									
2	2 4	0 1 0 2	3 9	3 9	3 9	3 5	0 7	2 4	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	2 7	0 0 9 5	3 9	3 9	3 9	3 9	2 0	1 4	8 0	8	4 0	6	8	8	8	8	4	4	2	2	0								
2	2 2	0 0 9 2	4 0	4 0	4 0	2 2	1 8	8 0	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	2 3	0 0 9 5	4 0	3 9	3 8	2 0	0 9	8 0	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	2 5	0 0 8 9	4 2	4 1	4 0	2 5	1 6	8 0	8	5 0	6	8	8	8	8	4	4	2	2	0									
2	2 8	0 0 8 2	3 9	3 9	3 9	2 2	1 6	7 2	8	6 1	6	8	8	8	8	4	4	2	2	0									
2	2 1	0 0 9 0	3 9	3 9	3 9	2 3	1 6	8 0	8	5 3	6	8	8	8	8	4	4	2	2	0									
2	2 4	0 1 0 1	3 8	3 8	3 8	2 2	2 4	7 2	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	2 7	0 1 2 3	3 8	3 7	3 4	2 3	2 4	8 1	8	6 0	6	8	8	8	8	4	4	2	2	0									
2	3 0	0 1 5 2	3 7	3 5	3 2	2 1	2 4	8 1	8	6 0	6	8	8	8	8	4	4	2	2	0									
2	3 3	0 1 7 5	3 5	3 5	3 1	2 2	1 6	8 1	8	7 0	6	8	8	8	8	4	4	2	2	0									
2	3 6	0 1 8 8	3 5	3 5	3 1	2 0	1 2	8 1	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	3 9	0 2 0 1	3 6	3 6	3 4	2 1	2 2	1 2	8 1	8	8 0	6	8	8	8	8	4	4	2	2	0								
2	4 2	0 2 1 3	3 6	3 6	3 4	2 1	2 4	8 1	8	6 0	6	8	8	8	8	4	4	2	2	0									
2	4 5	0 2 1 5	3 7	3 5	3 2	2 1	2 4	8 1	8	6 0	6	8	8	8	8	4	4	2	2	0									
2	4 8	0 2 1 9	3 6	3 6	3 1	2 0	2 1	8 1	8	7 0	6	8	8	8	8	4	4	2	2	0									
2	5 1	0 2 0 9	3 6	3 6	3 1	0 2	0 7	8 0	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	5 4	0 2 0 9	3 6	3 6	3 1	0 2	0 7	8 0	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	5 7	0 2 0 9	3 6	3 6	3 1	0 2	0 7	8 0	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	6 0	0 2 0 9	3 6	3 6	3 1	0 2	0 7	8 0	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	6 3	0 2 0 7	3 6	3 6	3 1	0 0	0 0	8 0	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	6 6	0 2 0 7	3 6	3 6	3 1	0 0	0 0	8 0	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	6 9	0 2 0 7	3 6	3 6	3 1	0 0	0 0	8 0	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	7 2	0 2 0 9	3 6	3 6	3 1	0 0	0 0	8 0	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	7 5	0 2 0 9	3 6	3 6	3 1	0 0	0 0	8 0	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	7 8	0 2 0 9	3 6	3 6	3 1	0 0	0 0	8 0	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	8 1	0 2 0 7	3 6	3 6	3 1	0 0	0 0	8 0	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	8 4	0 2 0 5	3 6	3 6	3 1	0 0	0 0	8 0	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	8 7	0 2 0 3	3 6	3 6	3 1	0 0	0 0	8 0	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	9 0	0 2 0 2	3 6	3 6	3 1	0 0	0 0	8 0	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	9 3	0 1 0 9	3 7	3 4	3 0	2 1	2 4	8 1	8	7 0	6	8	8	8	8	4	4	2	2	0									
2	9 6	0 1 1 6	3 8	3 5	3 1	2 1	2 3	8 2	8	6 0	6	8	8	8	8	4	4	2	2	0									
2	9 9	0 1 2 4	3 8	3 5	3 2	2 1	2 1	8 2	8	7 0	6	8	8	8	8	4	4	2	2	0									
2	1 2	0 1 1 8	3 8	3 5	3 1	2 1	1 3	8 1	8	7 0	6	8	8	8	8	4	4	2	2	0									
2	1 5	0 1 0 2	3 6	3 5	3 2	2 2	0 6	8 1	8	8 0	6	8	8	8	8	4	4	2	2	0									
2	1 8	0 0 4 2	3 6	3 6	3 6	0 9	0 6	8 4	8	8 5	6	8	8	8	8	4	4	2	2	0									
2	2 1	0 0 4 2	3 6	3 6	3 6	0 9	0 6	8 4	8	8 5	6	8	8	8	8	4	4	2	2	0									
2	2 4	0 0 4 2	3 6	3 6	3 6	0 9	0 6	8 4	8	8 5	6	8	8	8	8	4	4	2	2	0									
2	2 7	0 0 4 2	3 6	3 6	3 6	0 9	0 6	8 4	8	8 5	6	8	8	8	8	4	4	2	2	0									
2	3 0	0 0 4 2	3 6	3 6	3 6	0 9	0 6	8 4	8	8 5	6	8	8	8	8	4	4	2	2	0									
2	3 3	0 0 4 2	3 6	3 6	3 6	0 9	0 6	8 4	8	8 5	6	8	8	8	8	4	4	2	2	0									

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF JANUARY 1951																										
DAY	HOUR	STATION ELEV. PRESSURE	WIND		DIRECTION	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	CLOUD DIRECTION			ANEROMETER	MAXIMUM GUST													
			DRY BULB	WET BULB					WEATHER	LOW CLOUD	MIDDLE CLOUD	HIGH CLOUD														
	LST.	Mbs.	*°F	*°F	*°F	*°x10	Kts.	VV	Oktas	WW	W	Oktas	C _L	h	TYPE	HEIGHT	LOW	MIDDLE	HIGH	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEROMETER	DIRECTION	SPEED	SUNSHINE
31	0 2	9 8 0 1	5 7	3 4	3 1	2 8	3 8	8 1	8	0 2	2	8	8	4	9											
31	0 5	9 8 1 5	3 6	3 5	3 2	2 9	3 6	2 4	8	8 5	8	8	8	3	6											
31	0 8	9 8 4 5	3 6	3 5	3 3	2 8	2 7	4 0	8	8 0	8	8	8	5	6											
31	1 1	9 8 7 8	3 6	3 4	3 2	2 7	2 6	8 1	8	0 2	8	8	8	4	6											
31	1 4	9 9 1 5	3 5	3 4	3 4	2 6	1 7	3 2	8	8 5	8	8	8	3	5											
31	1 7	9 9 3 5	3 5	3 3	3 3	2 4	1 4	0 8	8	8 5	8	8	8	2	5											
31	2 0	9 9 4 6	3 5	3 3	3 3	2 3	1 6	8 0	8	0 2	8	8	8	2	5											
31	2 3	9 9 6 7	3 4	3 3	3 0	2 3	1 5	8 0	8	2 6	8	8	8	4	9											

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF																HEARD ISLAND FEBRUARY 1951									
DAY	HOUR	STATION LEVEL PRESSURE			WIND		DEW POINT	DIRECTION	SPEED	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	CLOUD DIRECTION			MAXIMUM GUST	SUNSHINE								
		DRY BULB	WET BULB	DEPT. POINT	DIRECTION	SPEED							LOW CLOUD	MIDDLE CLOUD	HIGH CLOUD										
LST.	Mbs.	"F	"F	"F	*x10	Kts.	VV	Oktas	W	ww	Oktas	PAST WEATHER	AMOUNT	Type	Height	LOW	MIDDLE	HIGH	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	DIRECTION	SPEED	Hours
01	0 2	0 9 8 2	3 5	3 3	3 0	2 2	1 5	8 1	8	0 2	8	8	8	3											
01	0 5	0 9 4 9	3 4	3 3	3 2	2 2	1 8	8 1	8	0 2	8	7	8	4											
01	0 8	0 0 1 6	3 6	3 4	3 2	2 3	1 6	8 1	8	0 2	8	7	8	4											
01	1 1	0 0 3 5	3 8	3 6	3 5	2 3	1 8	8 2	7	0 2	8	6	6	4											
01	1 4	0 0 6 0	3 9	3 5	3 5	2 3	1 8	8 2	7	0 2	8	6	6	4											
01	1 7	0 0 8 0	3 6	3 5	3 2	2 2	1 0	8 1	6	0 2	8	6	6	4											
01	2 0	0 0 8 3	3 6	3 5	3 2	2 7	1 0	8 1	8	0 2	8	1	4	4											
01	2 3	0 0 7 8	3 6	3 4	3 1	2 8	1 2	8 1	7	0 2	8	1	7	4											
02	0 2	0 9 4 5	3 7	3 5	3 3	3 2	1 0	8 0	8	5 0	8	2	2	2											
02	0 5	0 0 4 5	3 7	3 5	3 3	3 2	1 8	8 0	8	5 0	8	2	2	2											
02	0 8	0 0 2 6	3 8	3 8	3 6	2 9	1 8	8 2	8	5 1	8	5	5	6											
02	1 1	0 0 0 0	4 0	3 9	3 8	2 9	2 0	2 4	8	5 1	8	5	5	6											
02	1 4	0 9 7 7	3 9	3 9	3 7	2 7	1 0	8 0	8	0 2	8	2	5	5											
02	1 7	0 9 9 2 0	3 8	3 8	3 7	3 3	1 8	8 0	8	2	8	2	5	5											
02	2 0	0 9 8 5 5	4 1	4 0	3 9	3 0	3 2	0 8	8	5 4	8	5	5	5											
03	0 2	0 9 8 0 5	4 2	4 0	3 8	2 9	3 4	5 4	8	5 0	8	5	5	5											
03	0 5	0 9 8 0 8	3 7	3 5	3 2	2 7	3 0	4 0	8	8 5	8	8	8	4											
03	0 8	0 9 8 6 2	3 7	3 5	3 1	2 7	2 8	3 0	8	8 5	8	8	8	4											
03	1 1	0 9 8 7 7	3 7	3 5	3 4	2 8	2 7	6 4	8	8 5	8	8	8	4											
03	1 4	0 9 8 9 7	5 8	3 5	3 4	2 7	2 6	9 0	8	0 5	8	0 5	5	5											
03	1 7	0 9 9 0 7	5 8	3 5	3 3	2 8	2 5	8 0	8	0 5	8	0 5	5	5											
03	2 0	0 9 9 1 2	3 7	3 5	3 3	2 7	2 5	8 0	8	0 5	8	0 5	5	5											
03	2 3	0 9 9 0 8	5 6	3 5	3 3	2 7	2 8	3 0	8	8 5	8	8	8	4											
04	0 2	0 9 9 1 2	5 6	3 5	3 4	2 7	2 5	4 8	8	8 0	8	8	8	4											
04	0 5	0 9 9 1 2	5 6	3 5	3 4	2 6	2 4	7 2	8	8 0	8	8	8	4											
04	0 8	0 9 9 3 2	5 6	3 4	3 2	2 4	2 4	7 2	8	8 0	8	8	8	4											
04	1 1	0 9 9 5 8	5 7	3 4	3 1	2 5	2 5	3 5	8 1	8	0 2	8	0 2	5	5										
04	1 4	0 9 9 5	5 7	3 4	3 1	2 5	3 0	8 1	8	0 2	8	0 2	5	5											
04	1 7	0 0 3 0	5 7	3 4	3 1	2 7	2 0	8 1	7	0 2	8	0 2	5	5											
04	2 0	0 0 6 5	5 3	3 3	3 3	2 4	2 3	8 1	7	2	8	2	4	4											
04	2 3	0 0 7 5	5 6	3 4	3 1	2 2	2 1	8 1	7	0 2	8	2	4	4											
05	0 2	0 0 8 0	5 6	3 4	3 1	2 2	2 0	8 1	2	0 1	8	0 2	5	5											
05	0 5	0 7 7 4	5 5	3 4	3 2	2 5	0 2	8 1	8	0 2	8	0 2	5	5											
05	0 8	0 0 5 1	5 6	3 6	3 5	0 4	0 4	8 1	7	0 2	8	0 2	5	5											
05	1 1	0 9 8 8 1	5 6	3 5	3 4	0 7	1 8	1 6	8	6 3	8	6	6	4											
05	1 4	0 9 8 8 4	5 6	3 5	3 4	0 5	1 0	2 4	8	6 5	8	6	6	4											
05	1 7	0 9 8 0 2	4 5	4 4	4 4	4 2	2 2	0 5	2 4	8	6 2	8	6	6											
05	2 0	0 9 8 2 0	4 5	4 5	4 5	4 5	3 0	2 5	4 0	8	6 0	8	6	6											
05	2 3	0 9 7 7 9	3 9	3 8	3 6	3 7	2 8	2 2	6 4	8	0 2	8	0 2	5	5										
06	0 2	0 9 8 2 2	3 8	3 5	3 2	2 9	3 7	8 1	5 0	1	1	5	5	5											
06	0 5	0 9 8 4 9	3 9	3 5	3 2	2 9	3 8	8 1	7	0 2	8	0 2	5	5											
06	0 8	0 9 8 5 4	3 9	3 5	3 2	2 9	3 5	8 1	6	0 2	8	0 2	5	5											
06	1 1	0 9 8 8 3	4 0	3 7	3 3	2 9	4 3	8 0	7	0 5	8	0 5	5	5											
06	1 4	0 9 9 4 4	4 0	3 6	3 2	3 0	3 4	8 0	7	0 5	8	0 5	5	5											
06	1 7	0 9 8 9 3	3 9	3 5	3 2	3 0	2 4	8 0	8	8 8	8	8	8	4											
06	2 0	0 8 9 9 7	3 8	3 5	3 2	2 9	3 0	8 0	7	0 2	8	0 2	5	5											
06	2 3	0 9 9 0 2	3 7	3 5	3 2	2 8	2 5	8 1	6	0 2	8	0 2	5	5											
07	0 2	0 9 9 0 6	3 7	3 5	3 3	2 5	2 0	8 1	7	0 2	8	0 2	5	5											
07	0 5	0 9 9 3 4	3 7	3 4	3 1	2 8	2 0	8 1	3	0 2	8	0 2	5	5											
07	0 8	0 0 6 8 3	3 7	3 5	3 2	2 7	2 1	8 1	5	0 2	8	0 2	5	5											
07	1 1	0 9 7 5	3 8	3 6	3 2	2 7	2 3	8 1	7	0 2	8	0 2	5	5											
07	1 4	0 0 0 2	3 8	3 5	3 3	2 7	2 1	8 1	7	0 2	8	0 2	5	5											
07	1 7	0 0 2 0	3 7	3 5	3 4	2 8	2 0	8 1	5	0 2	8	0 2	5	5											
07	2 0	0 0 4 6 5	3 5	3 5	3 4	2 8	1 8	8 1	4	0	1	2	2	2											
07	2 3	0 0 6 4	3 6	3 5	3 4	2 6	0 9	8 1	7	0 3	8	0 2	5	5											
08	0 2	0 0 7 0	5 6	3 5	3 4	2 4	0 2	8 1	7	0 3	8	0 2	5	5											
08	0 5	0 0 7 8	5 7	3 6	3 6	0 0	0 0	8 0	8	0 3	8	0 2	5	5											
08	0 8	0 0 7 8	5 9	3 7	3 4	0 5	0 3	8 1	8	0 2	8	0 2	5	5											
08	1 1	0 0 9 2	5 9	3 7	3 4	0 9	0 2	8 1	8	0 2	8	0 2	5	5											
08	1 4	0 1 0 5	5 9	3 6	3 2	0 0	0 0	8 1	3	0 1	8	0 2	5	5											
08	2 0	0 1 2 8	5 5	3																					

RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF

HEARD ISLAND
FEBRUARY 1951

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF**

**HEARD ISLAND,
FEBRUARY 1951.**

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	DIRECTION	WIND SPEED x10	VISIBILITY	TOTAL CLOUD	CLOUD DIRECTION			MAXIMUM TEMPERATURE °F	MINIMUM TEMPERATURE °F	PRECIPITATION	ANEMOMETER DIRECTION	MAXIMUM GUST SPEED x10 Kts.	SUNSHINE Hours
										PRES. WEATHER	PAST WEATHER	AMOUNT	TYPE	MIDDLE CLOUD	HIGH CLOUD			
21	0 2	0 0 2 4	3 9	3 9	3 9	0 0	0 0	3 2	8	5 0	5 1	5 5	4	4	4			
21	0 5	0 0 0 4	4 0	3 9	3 9	3 1	1 5	1 6	8	5 5	5 5	5 5	2	2	2			
21	0 8	9 9 9 4	4 1	4 0	3 9	3 2	0 5	3 2	8	5 1	5 1	5 6	2	2	2			
21	1 1	9 9 7 4	4 0	3 9	3 8	3 3	0 6	1 6	8	5 6	5 6	5 6	2	2	2			
21	1 4	9 9 4 1	4 1	4 1	4 1	0 0	0 0	1 6	8	5 6	5 6	5 6	2	2	2			
21	1 7	9 9 9 1 6	3 9	3 8	3 7	2 7	1 5	0 4	8	5 5	5 6	5 6	2	2	2			
21	2 0	9 9 9 3 7	3 9	3 8	3 6	2 3	1 5	3 2	8	5 2	5 5	5 5	7	2	2			
21	2 3	9 9 9 5 6	3 6	3 5	3 4	2 3	1 5	3 2	8	5 1	5 1	5 6	2	2	2			
22	0 2	9 9 9 9	3 6	3 5	3 4	2 3	2 0	4 8	8	5 2	5 2	5 2	2	2	2			
22	0 5	0 0 2 1	3 6	3 5	3 5	2 1	1 8	4 0	7	5 6	5 6	5 6	2	2	2			
22	0 8	0 0 4 9	3 6	3 5	3 5	2 2	1 2	3 2	7	8 0	8 0	8 0	0	1	1			
22	1 1	0 0 6 1	3 9	3 8	3 8	2 4	0 5	4 0	7	8 0	8 0	8 0	0	6	9			
22	1 4	0 0 4 9	4 1	3 9	3 5	3 1	0 4	6 4	5	0 1	1 1	1 1	8 4	0	6	9		
22	1 7	0 0 0 0	3 8	3 6	3 4	0 6	1 0	6 4	8	0 3	1 1	1 1	8 4	4	2	2	3 0	0 0 0
22	2 0	9 9 6 4	3 6	3 5	3 5	0 7	1 9	2 4	8	6 3	6 3	6 3	0	4	2	2		
22	2 3	9 9 8 5 6	4 0	3 9	3 9	0 9	1 3	1 6	8	6 3	6 3	6 3	0	4	2	2		
23	0 5	9 9 8 5 1	4 5	4 5	4 2	3 0	2 6	1 6	8	6 2	6 2	6 2	0	2	2	2		
23	0 8	9 9 8 1 3	3 9	3 9	3 9	2 6	1 2	1 6	8	6 3	6 3	6 3	0	2	2	2		
23	1 1	9 9 6 5 0	4 0	3 8	3 5	2 7	2 2	4 0	8	0 2	6 6	6 6	8 4	0	6	6		
23	1 4	9 9 6 1	4 1	3 9	3 8	3 0	2 2	4 0	8	2 1	6 6	6 6	8 4	6	6	6		
23	1 7	9 9 7 1	4 1	4 0	3 9	2 9	2 5	2 4	8	2 0	5 0	5 0	5 4	6	6	6		
23	2 0	0 0 0 4	3 9	3 8	3 8	2 6	1 2	2 4	8	5 0	5 5	5 5	0	0	0	0		
23	2 3	0 0 3 6	3 8	3 7	5 7	2 2	2 4	8	6 0	6 6	6 6	0	3	3	3			
24	0 2	0 0 6 3	3 8	3 7	3 6	2 1	2 4	4 0	8	0 2	6 6	6 6	8 4	4	2	2	4 1	0 4 1
24	0 5	0 0 8 6	3 8	3 7	5 6	2 4	2 0	7 2	8	0 2	6 6	6 6	8 4	6	6	6		
24	0 8	0 1 0 0	3 8	3 8	3 8	2 3	1 0	7 2	8	0 2	6 6	6 6	8 4	6	6	6		
24	1 1	0 1 0 2	4 1	4 0	3 9	2 5	1 5	0 8	8	5 1	5 1	5 1	0	2	2	2		
24	1 4	0 1 0 6	4 0	3 9	3 9	2 3	1 0	0 4	8	5 1	5 5	5 5	0	2	2	2		
24	1 7	0 1 1 7	4 0	4 0	4 0	2 3	1 0	0 2	8	4 4	4 4	4 4	0	2	2	2		
24	2 0	0 1 1 5	3 9	3 9	3 8	2 3	1 5	0 8	8	4 2	4 4	4 4	6	2	2	2		
24	2 3	0 1 0 8	4 1	4 0	3 9	0 3	0 3	4 0	8	0 2	4 4	4 4	6	4	2	2		
25	0 5	0 0 4 5	4 5	4 2	3 9	0 3	1 0	7 2	8	5 2	5 2	5 2	3	3	3	3		
25	0 8	0 0 1 8	4 5	4 4	4 3	0 9	0 2	8 0	8	2 5	2 5	2 5	5	7	9	9		
25	1 1	9 9 8 5 0	4 4	4 4	4 5	0 0	0 0	1 2	8	5 1	5 1	5 1	0	0	0	0		
25	1 4	9 9 5 5 3	4 5	4 4	4 4	3 0	2 0	1 6	8	5 8	5 8	5 8	0	5	5	5		
25	1 7	0 0 0 9	3 9	3 8	3 6	3 7	2 2	2 6	4 0	6	0 1	1 1	1 1	5	5	5		
25	2 0	0 0 5 7	3 8	3 6	3 4	2 4	1 2	4 0	1	0 1	1 1	1 1	5	5	5			
25	2 3	0 0 8 5	3 9	3 7	5 4	2 5	1 5	8 1	2	0 2	1 1	1 1	5	5	5			
26	0 2	0 0 9 5	3 9	3 8	3 7	2 8	1 4	8 0	8	0 3	1 1	1 1	8 4	6	6	6		
26	0 5	0 0 7 2	3 8	3 8	3 8	0 0	0 0	2 4	8	0 5	2 2	2 2	6	5	5	5		
26	0 8	0 0 4 5	4 0	3 9	3 9	0 0	0 0	4 0	8	0 5	2 2	2 2	6	5	5	5		
26	1 1	0 0 1 6	4 5	4 2	4 1	2 9	2 6	5 2	8	5 0	5 5	5 5	7	5	5	5		
26	1 4	0 0 2 9	4 2	3 9	3 5	3 0	3 0	3 2	7	0 5	5 5	5 5	7	5	5	5		
26	1 7	0 0 7 9	4 0	3 8	3 5	2 5	2 6	2 8	3 2	7	0 5	5 5	5 5	7	5	5		
26	2 0	0 1 2 6	3 9	3 7	3 4	2 6	1 2	3 2	5	0 1	2 2	2 2	3	5	5	5		
26	2 3	0 1 5 6	3 8	3 7	3 6	2 2	1 6	3 2	8	0 3	2 2	2 2	8	5	5	5		
27	0 2	0 1 6 8	3 8	3 7	3 6	2 3	1 2	3 2	8	0 5	2 2	2 2	8	5	5	5		
27	0 5	0 1 5 8	3 9	3 8	3 7	2 6	1 0	1 6	8	5 1	5 1	5 1	0	2	2	2		
27	0 8	0 1 4 1	3 7	3 7	3 5	0 0	0 0	1 6	8	6 1	6 1	6 1	8 0	2	2	2		
27	1 1	0 0 9 3	3 8	3 7	3 6	0 7	1 0	1 0	8	6 1	6 1	6 1	8 0	2	2	2		
27	1 4	0 0 4 3	4 3	4 2	4 0	3 1	2 2	0 8	8	6 3	6 3	6 3	8 0	2	2	2		
27	1 7	0 0 1 5	4 6	4 5	4 2	3 0	1 8	1 6	8	6 1	6 1	6 1	8 0	2	2	2		
27	2 0	0 9 9 2	4 5	4 3	4 2	2 5	1 5	7 2	8	6 1	6 1	6 1	5	7	7	7		
27	2 3	0 0 0 5	4 0	3 9	3 8	2 3	2 0	7 2	8	2 1	6 6	6 6	6	6	6	6		
28	0 2	0 0 3 2	3 7	3 5	3 4	2 3	2 0	8 0	8	0 2	2 2	2 2	5	5	5	5		
28	0 5	0 0 4 6	3 4	3 4	3 4	2 1	1 8	3 2	8	0 5	2 2	2 2	5	5	5	5		
28	0 8	0 0 5 8	3 4	3 4	3 4	2 2	1 2	2 4	8	1 0	2 2	2 2	5	5	5	5		
28	1 1	0 0 4 6	3 5	3 5	3 5	2 3	0 8	3 2	8	0 5	2 2	2 2	5	5	5	5		
28	1 4	0 0 3 2	3 6	3 5	3 5	2 2	0 8	3 2	8	0 5	2 2	2 2	5	5	5	5		
28	1 7	0 0 0 2	3 6	3 5	3 5	2 6	1 4	3 2	8	6 8	6 8	6 8	8	4	4	4		
28	2 0	9 9 8 8	3 7	3 6	3 5	2 6	1 7	3 2	8	2 1	6 6	6 6	8 4	4	4	4	4 8	0 0 0
28	2 3	9 9 9 7	3 7	3 5	3 5	2 6	2 1	3 2	5	8 3	8 3	8 3	0	0	9	9	3 9	3 4
28	0 7	0 0 7 2	3 5	3 5	3 5	2 6	2 1	3 2	5	8 3	8 3	8 3	0	0	9	9	3 9	3 4
28	1 0	0 0 7 2	3 5	3 5	3 5	2 6	2 1	3 2	5	8 3	8 3	8 3	0	0	9	9	3 9	3 4
28	1 3	0 0 7 2	3 5	3 5	3 5	2 6	2 1	3 2	5	8 3	8 3	8 3	0	0	9	9	3 9	3 4

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF MARCH 1951																								
DAY	HOUR	STATION LEVEL PRESSURE		WIND		DEW POINT	DIRECTION	SPEED	VISIBILITY		LOW CLOUD		CLOUD DIRECTION		MAXIMUM TEMPERATURE		MINIMUM TEMPERATURE		PRECIPITATION	ANEMOMETER	MAXIMUM GUST			
		Dry Bulb	Wet Bulb	Direction	Speed				Total Cloud	Present Weather	Past Weather	Amount	Type	Height	Middle Cloud	Low	Middle	High	"F	"F	Points	Miles	Direction	Speed
LST.	Mbs.	"F	"F	"F	*x10	Kts.	VV	Oktas	WW	W	Oktas	C _L	h	C _L	CM	CH	CM	CH	"F	"F				
01	0 2	00 2 0	3 6	3 4	3 2	2 3	3 0	4 0	6	2 6	8	6	8	5	0	9	5	5	5	5				
01	0 5	00 4 5	3 6	3 4	3 1	2 3	2 1	3 2	7	8 7	8	7	2	4	3	6	6	6	6	6				
01	0 8	00 5 1	3 6	3 4	3 1	0 0	0 0	4 0	8	0 3	2	5	2	5	3	6	6	6	6	6				
01	1 1	00 4 4	3 8	3 5	3 2	2 7	0 3	5 6	7	0 2	2	7	2	5	7	6	6	6	6	6				
01	1 4	00 2 2	3 7	3 5	3 1	3 1	0 7	5 6	7	0 2	2	2	4	5	7	6	6	6	6	6				
01	1 7	00 0 3	3 7	3 5	3 2	3 1	0 4	7 2	8	0 2	2	4	8	5	7	6	6	6	6	6				
01	2 0	9 9 7 8	3 7	3 6	3 5	2 6	1 9	6 4	8	0 3	2	8	8	5	7	6	6	6	6	6				
01	2 3	9 9 5 2	3 8	3 7	3 6	3 1	0 9	4 0	8	0 0	2	8	8	4	5	5	5	5	5	5	3 9	3 6	0 0 6	3 0 4
02	0 2	9 9 5 0	3 9	3 8	3 7	2 9	2 3	4 0	8	0 5	2	8	8	4	5	5	5	5	5	5	4 0	3 6	0 0 0	3 5 9
02	0 5	9 9 3 4	4 0	3 8	3 6	2 7	2 0	4 0	8	0 2	2	8	8	4	5	5	5	5	5	5	2 8	4 4	0 0 1	
02	0 8	9 9 3 2	3 9	3 8	3 7	2 8	2 2	7 2	8	0 2	2	8	8	4	5	5	5	5	5	5				
02	1 1	9 9 3 5	3 9	3 8	3 7	2 8	2 0	7 2	8	0 2	2	8	8	4	5	5	5	5	5	5				
02	1 4	9 9 5 0	3 9	3 7	3 4	2 7	1 5	7 2	8	0 2	2	8	8	4	5	5	5	5	5	5				
02	1 7	9 9 5 5	3 9	3 7	3 4	2 6	1 8	7 2	8	0 2	2	8	8	4	5	5	5	5	5	5				
02	2 0	9 9 6 9	3 8	3 7	3 6	2 8	1 5	8 0	8	0 2	2	8	8	4	5	5	5	5	5	5				
02	2 3	9 9 7 9	3 8	3 7	3 6	2 7	1 2	8 0	8	0 2	2	8	8	4	5	5	5	5	5	5	4 0	3 6	0 0 0	3 5 9
03	0 2	9 9 9 3	3 8	3 7	3 6	2 7	1 5	7 2	8	0 2	2	8	8	4	5	5	5	5	5	5	2 8	4 4	0 0 1	
03	0 5	0 0 0 8	3 7	3 5	3 2	2 5	1 9	7 2	7	2 5	2	7	8	4	5	5	5	5	5	5				
03	0 8	0 0 1 8	3 8	3 6	3 3	2 6	2 1	8 0	8	0 1	2	8	8	4	5	5	5	5	5	5				
03	1 1	0 0 4 1	3 9	3 7	3 6	2 6	3 1	4 8	8	0 1	2	8	8	4	5	5	5	5	5	5				
03	1 4	0 0 8 4	5 9	3 8	3 5	2 6	1 7	8 0	8	0 2	2	8	8	4	5	5	5	5	5	5				
03	1 7	0 1 0 4	3 9	3 8	3 8	2 7	1 4	4 0	8	0 2	2	8	8	4	5	5	5	5	5	5				
03	2 0	0 1 0 7	3 8	3 7	3 6	2 6	0 6	3 2	8	0 5	2	8	8	4	5	5	5	5	5	5	4 1	3 6	0 0 1	3 5 8
03	2 3	0 0 9 9	4 1	3 9	3 5	2 4	2 2	3 2	8	0 2	2	8	8	4	5	5	5	5	5	5	2 7	6 6	0 0 3	
04	0 2	0 0 9 6	4 0	3 9	3 7	2 2	1 2	3 2	8	0 2	2	8	8	4	5	5	5	5	5	5				
04	0 5	0 0 9 5	4 0	3 9	3 8	2 3	1 8	3 2	8	0 2	2	8	8	4	5	5	5	5	5	5				
04	0 8	0 1 0 2	3 9	3 9	3 9	2 2	1 8	2 4	8	0 5	2	8	8	4	5	5	5	5	5	5				
04	1 1	0 1 0 3	3 9	3 8	3 8	2 2	1 8	2 4	8	0 5	2	8	8	4	5	5	5	5	5	5				
04	1 4	0 0 9 9	3 9	3 8	3 8	2 2	1 8	2 4	8	0 5	2	8	8	4	5	5	5	5	5	5				
04	1 7	0 0 9 5	5 8	3 8	3 8	2 2	1 8	2 4	8	0 5	2	8	8	4	5	5	5	5	5	5	4 3	3 6	0 0 0	3 6 3
04	2 0	0 0 8 3	5 9	3 8	3 8	2 3	1 6	3 2	8	0 5	2	8	8	4	5	5	5	5	5	5	2 4	3 1	0 0 0	
04	2 3	0 0 4 6	3 7	5 7	5 7	2 2	1 2	3 2	8	0 2	2	8	8	4	5	5	5	5	5	5				
05	0 2	0 0 9 4	5 7	3 7	3 7	0 9	0 8	1 6	8	6 1	2	8	8	4	5	5	5	5	5	5				
05	0 5	0 9 2 1	4 3	5 2	4 1	0 0	0 0	4 0	8	6 0	2	8	8	4	5	5	5	5	5	5				
05	0 8	0 8 9 9	4 6	4 5	4 4	2 7	0 5	2 4	8	6 0	2	8	8	4	5	5	5	5	5	5				
05	1 1	0 8 9 0	4 2	4 2	4 0	2 3	1 0	1 0	8	6 1	2	8	8	4	5	5	5	5	5	5				
05	1 4	0 9 0 6	4 0	4 0	3 8	2 3	1 0	4 0	8	2 1	2	8	8	4	5	5	5	5	5	5	4 3	3 6	0 0 6	7 1 8 1
05	1 7	0 9 3 3	4 0	3 9	3 8	1 9	0 5	7 2	8	0 2	2	8	8	4	5	5	5	5	5	5	1 8	2 7	0 0 1	
05	2 0	0 9 6 9	3 8	3 7	3 5	0 0	0 0	7 2	5	0 2	2	8	8	4	5	5	5	5	5	5	4 7	3 6	0 0 6	7 1 8 1
05	2 3	0 9 9 7	3 6	3 5	3 4	2 1	0 2	7 2	5	0 1	2	8	8	4	5	5	5	5	5	5				
06	0 2	0 0 1 8	3 6	3 5	3 4	2 0	0 0	7 2	5	0 1	2	8	8	4	5	5	5	5	5	5				
06	0 5	0 0 1 6	3 4	3 3	3 2	0 4	0 8	6 4	8	0 2	2	8	8	4	5	5	5	5	5	5				
06	0 8	0 0 0 5	5 5	3 5	3 3	0 5	0 7	2 4	8	6 9	2	8	8	4	5	5	5	5	5	5				
06	1 1	0 9 7 8	3 5	3 5	3 4	0 5	1 0	2 4	8	6 9	2	8	8	4	5	5	5	5	5	5				
06	1 4	0 9 6 5	3 9	3 8	3 8	2 2	0 0	8 0	7	0 1	5	7	5	4	5	5	5	5	5	5				
06	1 7	0 9 9 7	3 8	3 8	3 8	2 2	0 9	1 6	8	5 1	2	8	8	4	5	5	5	5	5	5	4 2	3 3	0 0 0	4 2 4 8
06	2 0	0 0 2 2	4 0	3 8	3 6	2 3	1 7	2 4	8	2 0	5	8	5	4	5	5	5	5	5	5	2 4	2 9	0 0 6	
06	2 3	0 0 2 1	3 8	3 8	3 7	2 2	0 5	2 4	8	2 1	2	8	8	4	5	5	5	5	5	5				
07	0 2	0 0 4 7	3 7	3 7	3 7	2 2	0 5	5 6	8	1 0	1	8	8	4	5	5	5	5	5	5				
07	0 5	0 0 9 3	4 3	4 2	4 2	2 5	1 8	3 2	8	5 8	6	8	0	4	5	5	5	5	5	5	4 4	3 6	0 0 1 8	3 6 2
07	0 8	0 0 5 8	3 7	3 5	3 1	2 1	3 2	4 8	7	0 9	3	7	8	4	5	5	5	5	5	5	4 2	3 7	0 0 1 2	4 7 1
07	1 1	0 1 0 4	3 7	3 5	3 2	2 3	2 2	4 8	7	0 2	3	7	5	5	5	5	5	5	5	5	2 1	5 0	0 0 7	
07	1 4	0 1 2 8	3 9	3 5	3 3	2 3	1 0	6 4	7	0 2	2	8	8	4	5	5	5	5	5	5				
07	1 7	0 1 3 5	3 7	3 5	3 5	2 2	0 6	3 2	8	6 0	5	8	0	4	5	5	5	5	5	5				
07	2																							

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF MARCH 1951																									
DAY	HOUR	STATION LEVEL PRESSURE		DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	LOW CLOUD			CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	MAXIMUM GUST		SUNSHINE					
		DRY BULB	WET BULB		DIRECTION	SPEED				AMOUNT	PAST WEATHER	TYPE	HEIGHT	MIDDLE CLOUD	HIGH CLOUD	LOW CLOUD	MIDDLE	HIGH	DIRECTION	SPEED					
LST.	Mbs.	"F	"F	"F	"x10	Kts.	VV	Oktas	ww	W	Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.	Hours
11	0 2	9 8 6 5	4 1	4 0	4 0	2 9	4 0	2 0	8	6 1	6	8	7	2											
11	0 5	9 8 6 9	3 8	3 7	3 7	2 7	2 3	4 0	8	5 2	6	6	4	4											
11	0 8	9 9 0 1	3 7	3 7	3 6	2 7	2 5	3 2	8	2 5	6	6	4	4											
11	1 1	9 9 3 0	3 6	3 5	3 4	2 7	3 0	4 8	7	2 6	6	6	4	4											
11	1 4	9 9 6 2	3 8	3 5	3 4	2 8	2 3	4 8	8	3 0	6	6	4	4											
11	1 7	9 9 8 7	3 8	3 5	3 4	2 7	2 5	4 8	7	2 5	6	6	4	4											
11	2 0	0 0 1 5	3 8	3 5	3 4	2 7	1 9	4 8	6	0 5	2	6	4	4											
11	2 3	0 0 2 0	3 7	3 6	3 3	2 9	1 2	4 8	7	0 5	2	7	5	5											
12	0 2	0 0 1 9	3 7	3 6	3 5	2 8	1 5	4 8	8	0 5	2	8	3	3											
12	0 5	0 0 1 1	3 7	3 5	3 5	2 7	1 8	4 8	8	0 5	2	8	3	3											
12	0 8	0 0 0 8	3 7	3 7	3 6	2 7	1 0	4 8	8	2 0	5	8	8	3											
12	1 1	0 0 1 1	3 7	3 6	3 5	2 7	1 0	4 8	8	2 6	6	6	8	4											
12	1 4	0 0 1 1	3 9	3 7	3 5	2 2	2 0	8 0	3	0 9	3	3	5	4											
12	2 0	0 0 2 0	3 8	3 7	3 5	2 3	2 2	3 2	6	0 5	2	6	8	4											
12	2 3	0 0 2 5	3 7	3 6	3 5	2 3	1 6	3 2	8	0 3	2	6	5	4											
13	0 2	0 0 4 8	3 6	3 6	3 4	2 2	1 0	3 2	6	0 1	2	6	5	4											
13	0 5	0 0 3 9	3 5	3 5	3 5	2 7	0 2	7 2	6	0 2	2	3	5	4											
13	0 8	0 0 4 0	3 6	3 5	3 4	0 5	0 3	7 2	7	0 2	2	1	5	4											
13	1 1	0 0 1 4	3 9	3 7	3 4	0 6	0 8	7 2	8	0 3	2	1	5	4											
13	1 4	0 0 1 4	3 8	3 8	3 7	0 6	1 5	5 6	8	6 0	6	8	8	4											
13	1 7	0 0 5 1	3 8	3 7	3 7	0 6	1 5	2 4	8	6 1	6	4	7	3											
13	2 0	0 0 9 6	3 8	3 7	3 7	0 5	1 2	4 8	8	6 3	6	8	0	2											
13	2 3	0 0 6 5	3 8	3 8	3 8	0 0	2 4	4	8	6 0	6	8	0	2											
14	0 2	0 0 8 5	3 6	3 6	3 5	2 5	1 5	5 6	8	0 2	6	6	5	4											
14	0 5	0 0 9 1	3 7	3 5	3 3	2 6	2 2	3 2	4	0 5	8	4	8	4											
14	0 8	0 0 9 0 1	3 7	3 5	3 3	2 0	2 2	4 0	4	0 2	8	4	8	4											
14	1 1	0 0 9 0 1	3 9	3 7	3 6	2 9	2 3	8 0	5	0 2	8	5	8	5											
14	1 4	0 0 9 0 8	3 9	3 7	3 4	2 8	2 5	8 0	3	0 1	8	3	8	5											
14	1 7	0 0 9 0 4	3 8	3 6	3 3	3 0	3 3	4 8	6	0 5	1	6	8	5											
14	2 0	0 0 9 0 4	3 6	3 6	3 5	3 0	2 3	4 8	5	2 6	8	5	8	5											
14	2 3	0 0 9 0 9	3 7	3 6	3 3	2 9	2 4	4 8	4	0 5	8	4	8	5											
15	0 2	0 0 9 2 0	3 6	3 5	3 5	2 8	2 3	4 8	7	2 6	8	7	8	5											
15	0 5	0 0 9 3 5	3 5	3 5	3 4	2 7	1 5	4 8	8	0 2	8	8	8	5											
15	0 8	0 0 9 4 3	3 5	3 3	3 3	2 4	1 6	3 2	8	8 7	8	8	8	4											
15	1 1	0 0 9 5 8	3 4	3 4	3 4	2 2	1 8	6 4	7	2 2	7	5	8	4											
15	1 4	0 0 0 0 3	3 4	3 4	3 4	2 2	2 0	4 0	8	7 0	7	8	8	4											
15	1 7	0 0 0 2 9	3 8	3 5	3 3	2 1	2 2	4 0	7	0 2	7	7	8	5											
15	2 0	0 0 0 6 8	3 5	3 2	2 8	2 1	1 4	4 0	6	0 1	2	6	5	5											
15	2 3	0 0 1 0 2	3 1	3 2	3 1	2 0	1 8	4 0	7	2 2	7	7	8	5											
15	0 2	0 0 1 2 4	3 4	3 3	3 1	2 0	2 5	4 0	7	0 2	7	7	8	5											
15	0 5	0 0 1 7 0	3 4	3 2	2 8	2 0	1 8	7 2	6	0 2	2	4	8	4											
15	0 8	0 0 1 9 2	3 5	3 3	3 2	2 3	2 0	8 0	7	0 2	2	7	8	4											
15	1 1	0 0 2 1 4	5 7	5 5	5 3	2 4	1 5	8 0	7	0 2	2	7	8	5											
15	1 4	0 0 2 2 5	3 5	3 5	3 2	2 5	1 0	8 0	7	0 2	2	7	8	5											
15	1 7	0 0 2 2 7	3 8	3 5	3 3	2 6	1 5	8 0	7	0 2	2	5	8	5											
15	2 0	0 0 2 2 7	3 7	3 5	3 5	3 0	2 0	8 0	7	0 2	2	3	8	5											
15	2 3	0 0 2 0 4	3 7	3 5	3 4	2 9	0 8	8 1	8	0 2	2	6	8	4											
15	0 2	0 0 1 6 7	3 8	3 7	3 5	3 1	1 2	8 1	8	0 2	2	8	8	4											
15	0 5	0 0 1 0 7	3 6	3 5	3 5	3 4	0 8	3 2	8	6 3	6	8	0	3											
15	0 8	0 0 0 5 1	3 6	3 6	3 6	0 4	0 2	2 4	8	5 8	6	8	0	3											
15	1 1	0 0 0 4 1	3 9	3 9	3 9	0 9	0 5	2 4	8	6 1	6	8	0	4											
15	1 4	0 0 0 4 2	4 1	4 0	4 0	3 0	2 3	2 4	8	6 5	6	8	0	4											
15	1 7	0 0 0 5 2	4 0	3 9	3 8	2 9	2 0	5 2	8	0 5	2	2	8	4											
15	2 0	0 0 0 7 6	5 9	5 9	5 8	2 4	0 9	4 0	8	2 5	8	8	8	4											
15	2 3	0 0 0 9 5	3 8	3 8	3 7	2 2	1 3	4 0	8	2 0	5	8	4	4											
15	0 2	0 0 0 8 3	3 8	3 8	3 7	3 4	2 2	2 2	1 3	4 0	8	2 0	5	8											
15	0 5	0 0 0 8 3	3 8	3 8	3 6	2 5	1 0	5 6	8	0 2	2	2	8	8											
15	1 1	0 0 1 1 4	3 8	3 7	3 6	2 2	2 0	7 2	8	0 2	2	2	8	8											
15	1 4	0 0 1 4 3	3 8	3 7	3 5	2 3	1 0	7 2	7	0 2	2	6	8	4											
15	1 7	0 0 1 8 0	3 7	3 5	3 1	2 2	1 5	8 0	3	0 2	2	3	8	4											
15	2 0	0 0 2 2 6	3 5	3 5	3 2	2 6	0 5	8 0	2	0 1	2	2	8	4											
15	2 3	0 0 2 4 8	3 4	3 2	2 9	0 0	0 0	8 0	1	0 1	1	1	5	4											

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF**

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF MARCH 1951																													
DAY	HOUR	STATION LEVEL PRESSURE		DRY BULB		WET BULB		WIND		VISIBILITY		LOW CLOUD		CLOUD DIRECTION		MAXIMUM TEMPERATURE		MINIMUM TEMPERATURE		PRECIPITATION		ANEMOMETER		MAXIMUM GUST					
		LST.	Mbs.	°F	°F	°F	°F	°x10	Kts.	VV	Oktas	ww	W	Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	Direction	Speed	Sunshine	
21	02	01	172	38	36	38	36	22	2	15	08	8	10	5	8	6	6	3	0	0	0	9	9	9	9	9	9	5	
21	05	01	163	38	36	38	36	22	1	15	08	5	5	0	0	9	3	3	0	0	0	9	9	9	9	9	9	5	
21	08	11	168	38	37	37	37	22	18	05	9	47	5	5	0	0	9	3	3	0	0	0	9	9	9	9	9	9	5
21	11	01	154	40	40	40	40	22	18	10	8	05	4	8	8	6	2	1	0	0	0	9	9	9	9	9	9	5	
21	14	01	137	39	39	39	39	22	14	14	8	10	5	5	8	8	6	1	0	0	0	9	9	9	9	9	9	5	
21	17	01	177	39	39	39	39	23	14	14	8	10	5	5	7	7	6	1	0	0	0	9	9	9	9	9	9	5	
21	20	00	095	44	44	42	42	39	30	22	16	8	5	5	8	8	6	6	3	3	3	9	9	9	9	9	9	5	
21	23	00	093	39	39	39	39	23	20	10	8	5	5	8	8	6	6	3	3	3	9	9	9	9	9	9	5		
22	02	02	01	000	37	37	37	37	22	10	15	8	5	5	8	8	6	6	3	3	3	9	9	9	9	9	9	5	
22	05	02	0137	35	35	35	35	30	21	25	56	6	6	2	2	4	5	4	7	2	2	2	5	5	5	5	5	5	
22	08	01	059	36	35	35	35	29	22	25	72	7	02	2	4	5	4	7	2	2	2	5	5	5	5	5	5		
22	11	01	182	38	35	31	31	23	18	80	1	01	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0		
22	14	01	195	38	35	31	31	23	15	80	1	02	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
22	17	02	02	37	35	31	31	23	12	80	1	03	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1		
22	20	02	006	35	35	31	31	22	02	80	1	03	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1		
22	23	01	198	35	35	34	34	33	05	80	1	02	2	2	7	8	5	5	5	5	5	5	5	5	5	5	5		
23	02	01	192	36	36	36	36	30	00	00	16	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
23	05	01	177	39	39	39	39	22	08	16	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
23	08	01	171	41	41	41	41	22	13	40	8	20	6	6	5	5	7	4	7	4	7	4	7	4	7	4	7		
23	11	01	180	39	39	39	39	19	15	10	8	10	5	5	8	8	6	2	7	4	7	4	7	4	7	4	7		
23	14	01	182	42	41	40	40	23	12	48	8	05	5	5	8	8	6	2	7	4	7	4	7	4	7	4	7		
23	17	01	178	42	41	39	39	26	16	48	8	05	2	2	7	4	5	5	5	5	5	5	5	5	5	5	5		
23	20	01	183	41	40	40	40	21	25	48	8	05	2	2	7	4	5	5	5	5	5	5	5	5	5	5	5		
23	23	01	189	40	40	40	40	22	13	35	8	5	5	8	8	6	8	7	3	3	3	3	3	3	3	3	3		
24	02	01	190	39	39	39	39	22	19	30	8	20	6	6	8	8	6	8	7	3	3	3	3	3	3	3	3		
24	05	01	197	38	38	38	38	22	19	30	8	20	6	6	8	8	6	8	7	3	3	3	3	3	3	3	3		
24	08	02	04	38	37	35	35	22	20	48	8	05	5	5	8	8	6	8	7	3	3	3	3	3	3	3	3		
24	11	02	04	41	41	40	40	23	15	80	1	01	2	2	7	4	5	5	5	5	5	5	5	5	5	5	5		
24	14	01	198	41	41	41	41	24	10	48	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
24	17	01	194	41	41	41	41	23	08	40	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
24	20	02	0183	41	41	40	40	21	25	48	8	05	2	2	7	4	5	5	5	5	5	5	5	5	5	5			
24	23	01	189	40	40	40	40	22	13	35	8	5	5	8	8	6	8	7	3	3	3	3	3	3	3	3			
24	26	02	0190	39	39	39	39	22	19	30	8	20	6	6	8	8	6	8	7	3	3	3	3	3	3	3			
24	29	05	0197	38	38	38	38	22	19	30	8	20	6	6	8	8	6	8	7	3	3	3	3	3	3	3			
25	08	02	04	38	38	37	37	22	20	48	8	05	5	5	8	8	6	8	7	3	3	3	3	3	3	3			
25	11	02	04	41	41	41	41	24	10	48	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5				
25	14	01	198	41	41	41	41	23	08	40	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5				
25	17	01	194	41	41	41	41	21	10	32	8	5	5	8	8	6	8	7	2	2	2	2	2	2	2				
25	20	02	0183	41	41	41	41	21	10	32	8	5	5	8	8	6	8	7	2	2	2	2	2	2	2				
25	23	02	0160	42	42	42	42	35	02	64	8	20	5	5	8	8	6	8	7	2	2	2	2	2	2				
25	26	05	02	0136	41	41	41	36	02	32	8	5	5	8	8	6	8	7	3	3	3	3	3	3	3				
25	29	08	02	04	41	41	41	41	07	06	40	8	02	2	2	8	8	6	8	7	2	2	2	2	2				
26	01	11	9982	44	44	44	44	08	08	16	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
26	04	14	9955	45	45	44	44	30	05	16	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
26	07	17	9977	39	39	37	37	25	25	40	8	02	2	2	8	8	6	8	7	2	2	2	2	2	2				
26	10	20	0001	37	37	35	35	25	22	56	8	02	2	2	8	8	6	8	7	2	2	2	2	2					
26	13	23	0016	37	37	35	35	25	22	72	8	02	2	2	8	8	6	8	7	2	2	2	2	2					
26	16	02	0017	37	37	35	35	25	22	72	8	02	2	2	8	8	6	8	7	2	2	2	2	2					
26	19	08	0208	37	37	35	35	27	21	64	8	05	8	8	6	8	7	4	4	4	4	4	4	4					
26	22	11	0202	40	39	38	38	30	32	48	8	15	8	8	8	8	6	8	7	4	4	4	4	4					
26	25	14	02022	40	40	40	40	30	32	24	8	05	8	8	8	8	6	8	7	4	4	4	4	4					
26	28	17	020044	41	41	40	40	30	26	24	8	50	5	5	8	8	6	8	7	4	4	4	4	4					
26	31	20	020044	41	41	40	40	30	28	32	8	50	5	5	8	8	6	8	7	4	4	4	4	4					
26	02	0223	43	43	43	43	31	30	24	8	61	6	6	8	8	6	8	7	4	4	4	4	4						
26	05	0223	43	43	43	43	30	26	15	72	8	02	2	2	8	8	6	8	7	4	4	4	4						
26	08	0205	37	37	35	35	27	20	72	7	02	2	2	8	8	6	8	7	4	4	4	4	4						
26	11	0208	38	38	36	36	27	20	72	7	02	2	2	8	8	6	8	7	4	4	4	4	4						
26	14	0214	38	38	36	36	27	20	72	7	02	2	2	8	8	6	8	7	4	4	4	4	4						
26	17	0217	39	39	37	37	27	20	72	7	02	2	2	8	8	6	8	7	4	4	4	4	4						
26	20	0220	39	39	37	37	27	20	72	7	02	2	2	8	8	6	8	7	4	4	4	4	4						
26	23	0223	39	39	37	37	27	20	72	7	02	2	2	8	8	6	8	7	4	4	4	4	4						
26	26	0208	38	38	36	36	27	20	72	7	02	2	2	8	8	6	8	7	4	4	4	4	4						
26	29</																												

RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF

HEARD ISLAND
MARCH 1951

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE			
						DIRECTION	SPEED *x10 Kts.						C _L	C _M	C _H	LOW	MIDDLE	HIGH				DIRECTION	SPEED *x10 Kts.		
LST.	Mbs.	"F	"F	"F	"x10	Kts.	VV	Oktas	ww	W	Oktas	C _L	C _M	C _H	LOW	MIDDLE	HIGH	"F	"F	Points	Miles	"x10	Kts.	Hours	
3 1	0 2	0 0 7 5	4 6	4 6	4 6	3 1	2 6	2 4	8	6 0	6	6	6	6	6	6	6	6	4 9	4 1	0 0 3 2	2 5 7	3 1	3 9	0 0 0
3 1	0 5	0 0 5 4	4 5	4 5	4 5	3 2	2 4	2 4	8	6 0	6	6	6	6	6	6	6	6							
3 1	0 8	0 0 4 4	4 5	4 5	4 5	3 3	0 2	2 4	8	6 0	6	6	6	6	6	6	6	6							
3 1	1 1	0 0 2 4	4 4	4 4	4 4	0 7	0 2	3 2	8	6 0	6	6	6	6	6	6	6	6							
3 1	1 4	0 0 0 2	4 4	4 4	4 4	0 5	0 8	6 1	8	6 1	6	6	6	6	6	6	6	6							
3 1	1 7	9 9 8 2	4 4	4 4	4 4	3 4	1 2	0 6	8	6 3	6	6	6	6	6	6	6	6							
3 1	2 0	9 9 5 8	4 4	4 4	4 4	0 0	0 0	1 6	8	6 3	6	6	6	6	6	6	6	6							
3 1	2 3	9 9 4 4	4 1	4 1	4 1	0 6	0 5	8	6 3	6	6	6	6	6	6	6	6	6							

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF APRIL 1951																										
DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER		CLOUD DIRECTION		MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	MAXIMUM GUST									
						DIRECTION	SPEED			AMOUNT	TYPE	HEIGHT	MIDDLE	HIGH			DIRECTION	SPEED								
LST.	Mbs.	"F	"F	"F	"F	"x10	Kts.	VV	Oktas	ww	W	Oktas	C _L	h	CM	CH	C _L	CM	"F	"F	Points	Miles	"x10	Kts.	Hours	
01	0 2	9 9 2 2	4 2	4 2	4 2	0 6	0 5	0 8	8	6 3	6	8	0	5	2	9	5 5	5 5	4 4	3 5	0 0 9 4	3 7 1	3 0	6 4	0 1 9	
01	0 5	9 9 0 0	4 3	4 3	4 3	2 1	1 2	2 4	8	1 0	6	8	5	3	0	0	6 6	6 6	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
01	0 8	9 8 9 6	3 7	3 7	3 7	2 2	1 5	2 4	7	5 0	1	7	6	3	0	0	0 0	0 0	4 2	3 4	0 0 4 5	4 6 7	2 9	5 3	0 6 2	
01	1 1	9 8 9 3	4 0	3 8	3 6	2 6	1 1	5 4	6	1 5	0	6	8	4	0	0	0 0	0 0	4 1	3 5	0 0 0 0	3 4 1	3 0	4 8	0 4 7	
01	1 4	9 8 9 7	4 0	3 8	3 6	3 0	2 6	7 2	8	0 5	1	1	8	4	0	0	0 0	0 0	4 1	3 5	0 0 3 4	3 8 4	2 9	4 7	0 0 0	
01	1 7	9 9 2 3	3 6	3 5	3 4	2 9	2 1	7 2	6	2 6	1	3	8	4	0	0	0 0	0 0	4 1	3 5	0 0 0 3	1 3 4	2 8	2 0	0 0 0	
01	2 0	9 9 6 6	3 6	3 5	3 2	2 9	2 4	7 2	2	2 2 6	8	2	8	4	0	0	0 0	0 0	4 1	3 5	0 0 0 0	2 8 4	2 3	2 8	0 0 6	
01	2 3	9 9 2 5	3 6	3 5	3 2	2 8	2 3	7 2	2	2 2 6	8	2	8	4	0	0	0 0	0 0	4 1	3 5	0 0 0 0	2 8 4	2 3	2 8	0 0 6	
02	0 2	0 0 7 1	5 5	3 5	3 4	2 7	2 0	7 2	2	2 2 6	8	2	8	4	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
02	0 5	0 1 0 8	3 6	3 5	3 4	2 7	1 5	7 2	2	2 2 6	7	2	2	2	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
02	0 8	0 1 2 6	3 7	3 5	3 4	2 7	0 2	8 2	4	0 1	1	1	5	4	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
02	1 1	0 1 2 6	3 9	3 8	3 8	3 4	0 3	8 2	8	0 3	2	1	5	4	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
02	1 4	0 1 0 4	3 9	3 9	3 9	0 3	1 0	R 2	7	0 2	2	1	5	4	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
02	1 7	0 0 5 6	5 9	5 8	5 8	0 6	1 5	6 4	7	0 3	2	7	5	4	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
02	2 0	9 9 9 7	4 0	4 0	4 0	0 3	1 8	4 0	8	6 0	6	8	0	4	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
02	2 3	9 9 2 3	4 2	4 2	4 2	0 5	2 0	4 0	8	6 0	6	8	0	4	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
03	0 2	9 8 7 5	4 2	4 2	4 2	3 6	2 0	2 4	8	6 1	6	8	0	4	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
03	0 5	9 8 7 5	3 6	3 5	3 6	3 1	1 5	1 4	8	6 3	6	8	0	4	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
03	0 8	9 8 7 9	3 5	3 4	3 4	2 9	2 5	6 4	5	0 2	7	5	8	4	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
03	1 1	9 8 8 9	3 7	3 4	3 1	2 7	2 5	6 4	5	0 2	7	5	8	4	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
03	1 4	9 9 1 1	5 8	5 4	5 1	3 0	3 0	7 2	5	0 2	2	2	2	2	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
03	1 7	9 9 3 3	3 7	3 5	3 1	3 1	2 5	7 2	7	0 3	2	7	8	4	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
03	2 0	9 9 6 0	3 7	3 5	3 5	3 0	2 0	7 2	7	0 2	2	2	2	2	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
03	2 3	0 0 0 0	3 6	3 5	3 4	2 9	1 5	7 2	5	0 2	2	2	2	2	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
04	0 2	0 0 3 6	5 5	3 5	3 5	2 9	1 5	7 2	4	0 1	2	2	2	2	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
04	0 5	0 0 8 4	3 6	3 5	3 4	2 9	1 7	7 2	5	0 2	2	2	2	2	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
04	0 8	0 1 0 6	5 6	3 5	3 4	2 6	1 1	8 0	3	0 2	1	1	3	0	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
04	1 1	0 1 1 1	5 8	5 4	5 1	2 7	1 0	8 0	3	0 2	1	1	2	0	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
04	1 4	0 0 8 0	5 9	5 7	5 4	3 0	1 1	2 4	8	6 0	6	8	0	4	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
04	2 0	0 0 5 5	4 0	4 0	5 9	3 0	2 6	2 4	8	5 8	6	8	0	4	0	0	0 0	0 0	4 2	3 5	0 0 0 0	3 1 1	2 9	5 4	0 2 4	
05	0 2	0 0 7 2	3 9	3 9	5 8	2 5	0 8	2 4	8	5 0	5	8	7	4	0	0	0 0	0 0	4 1	3 5	0 0 0 0	3 4 1	3 0	4 8	0 4 7	
05	0 5	0 0 5 2	4 0	4 0	4 0	2 8	2 0	2 4	8	6 1	6	8	0	4	0	0	0 0	0 0	4 1	3 5	0 0 0 0	3 4 1	3 0	4 8	0 4 7	
05	0 8	0 0 4 3	4 1	4 1	4 0	2 9	2 0	2 4	8	6 1	6	8	0	4	0	0	0 0	0 0	4 1	3 5	0 0 0 0	3 4 1	3 0	4 8	0 4 7	
05	1 1	0 0 3 8	4 2	4 1	4 0	3 0	2 2	2 0	8	7 0	7	8	0	4	0	0	0 0	0 0	4 1	3 5	0 0 0 0	3 4 1	3 0	4 8	0 4 7	
05	1 4	0 0 2 8	4 2	4 1	4 0	2 8	2 4	1 6	8	6 1	6	8	0	4	0	0	0 0	0 0	4 1	3 5	0 0 0 0	3 4 1	3 0	4 8	0 4 7	
05	1 7	0 0 1 9	4 1	4 0	3 9	2 8	2 0	2 4	8	6 1	6	8	0	4	0	0	0 0	0 0	4 1	3 5	0 0 0 0	3 4 1	3 0	4 8	0 4 7	
05	2 0	0 0 2 6	4 0	3 9	3 8	2 8	1 6	2 4	8	5 0	5	8	7	4	0	0	0 0	0 0	4 1	3 5	0 0 0 0	3 4 1	3 0	4 8	0 4 7	
05	2 3	0 0 3 2	5 8	3 8	3 8	2 2	1 5	1 6	8	6 1	6	8	0	4	0	0	0 0	0 0	4 1	3 5	0 0 0 0	3 4 1	3 0	4 8	0 4 7	
06	0 2	0 0 4 5	5 7	3 7	3 6	2 2	1 5	2 4	8	6 0	6	8	0	4	0	0	0 0	0 0	4 1	3 5	0 0 0 0	3 4 1	3 0	4 8	0 4 7	
06	0 5	0 0 5 4	5 5	3 5	3 4	0 0	0 0	0 0	5 6	8	0	0	0	0	0	0	0 0	0 0	4 1	3 5	0 0 0 0	3 4 1	3 0	4 8	0 4 7	
06	0 8	0 0 4 8	5 5	3 4	3 4	0 0	0 0	0 0	4 0	8	5 6	5	8	0	4	0	0	0 0	0 0	4 1	3 5	0 0 0 0	3 4 1	3 0	4 8	0 4 7
06	1 1	0 0 6 6	5 6	3 5	3 2	2 3	1 5	7 2	8	0 1	2	7	8	4	0	0	0 0	0 0	4 1	3 5	0 0 0 0	3 4 1	3 0	4 8	0 4 7	
06	1 4	0 0 9 9	5 6	3 5	3 1	2 2	1 8	7 2	5	0 5	1	5	8	4	0	0	0 0	0 0	4 1	3 5	0 0 0 0	3 4 1	3 0	4 8	0 4 7	
06	1 7	0 0 2 1	5 5	3 5	3 1	2 2	1 8	7 2	4	0 1	2	7	8	4	0	0	0 0	0 0	4 1	3 5	0 0 0 0	3 4 1	3 0	4 8	0 4 7	
06	2 0	0 1 2 1	5 5	3 5	3 1	2 2	1 8	7 2	4	0 1	1	4	8	4	0	0	0 0	0 0	4 1	3 5	0 0 0 0	3 4 1	3 0	4 8	0 4 7	
06	2 3	0 1 5 0	5 5	3 5	3 2	2 8	2 3	1 2	7 2	1	0	2	1	1	0	0	0 0	0 0	3 9	3 4	0 0 0 3	1 3 4	2 8	2 0	0 0 0	
07	0 2	0 1 6 4	5 5	3 5	3 2	2 8	0 0	0 0	7 2	1	0	2	1	1	0	0	0 0	0 0	3 9	3 4	0 0 0 3	1 3 4	2 8	2 0	0 0 0	

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF APRIL 1951																									
DAY	HOUR	STATION LEVEL PRESSURE		DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	LOW CLOUD		CLOUD DIRECTION		MAXIMUM TEMPERATURE		MINIMUM TEMPERATURE		PRECIPITATION	ANEMOMETER		MAXIMUM GUST				
		LST.	Mbs.	"F	"F	"F	"x10	Kts.	VV	Oktas	ww	W	Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	Points	Miles	"x10	Kts.	Hours
11	0 2	0 1 1 9	3 8	3 8	3 7	0 3	0 8	5 6	6	0 5	1	6	4	3	0	9	9	9	9	9					
11	0 5	0 0 7 3	3 9	3 8	3 8	0 5	1 2	2 4	8	6 0	5	8	0	3	2	2	2	2	2	2					
11	0 8	0 0 4 3	4 0	4 0	3 9	0 7	1 2	2 4	8	6 1	6	8	0	2	2	2	2	2	2	2					
11	1 1	0 0 2 0	4 1	4 1	4 1	0 9	1 0	2 4	8	6 1	6	8	0	2	2	2	2	2	2	2					
11	1 4	0 0 0 7	4 2	4 2	4 2	0 6	0 2	1 6	8	6 1	6	8	0	2	2	2	2	2	2	2					
11	1 7	9 9 9 0	4 1	4 1	4 1	3 4	0 4	2 4	8	2 1	6	8	6	2	2	2	2	2	2	2					
11	2 0	0 0 0 1	4 1	4 1	4 1	3 0	1 0	1 6	8	6 0	6	8	6	2	2	2	2	2	2	2					
11	2 3	0 0 1 4	4 0	3 9	3 9	3 0	2 8	1 7	4 0	0	2 1	6	8	0	9	0	0	0	0	0					
12	0 2	0 0 2 8	4 0	3 9	3 9	3 9	1 5	4 0	1	0 3	1	1	5	4	0	0	0	0	0	0	4 2	3 7	0 0 2 0	2 5 9	2 9
12	0 5	0 0 4 4	4 0	3 8	3 5	3 0	1 5	5 6	8	0 3	2	7	8	4	0	0	0	0	0	0					
12	0 8	0 0 5 3	4 3	3 8	3 5	3 0	2 0	7 2	4	0 1	2	4	8	4	0	0	0	0	0	0					
12	1 1	0 0 6 2	4 0	3 9	3 6	3 2	1 0	7 2	7	0 2	2	7	8	4	0	0	0	0	0	0					
12	1 4	0 0 5 8	4 1	4 0	3 9	0 1	0 2	8 0	7	0 2	2	7	8	4	0	0	0	0	0	0					
12	1 7	0 0 2 2	3 9	3 8	3 5	0 6	1 5	8 0	8	0 2	2	7	8	4	0	0	0	0	0	0					
12	2 0	9 9 6 1	3 9	3 9	3 8	0 6	1 2	1 6	8	6 1	6	8	0	4	2	2	2	2	2	2					
12	2 3	9 9 2 4	3 9	3 9	3 9	3 2	1 5	2 4	8	6 0	6	8	0	3	2	2	2	2	2	2					
13	0 2	9 9 1 8	3 9	3 7	3 3	3 0	1 5	7 2	1	0 1	6	1	5	4	0	0	0	0	0	0	4 2	3 8	0 0 4 2	3 2 1	3 2
13	0 5	9 9 1 5	3 8	3 6	3 4	2 8	2 3	7 2	2	0 2	1	2	4	4	0	0	0	0	0	0					
13	0 8	9 9 2 6	3 8	3 7	3 6	2 9	2 3	4 0	3	1 5	1	3	8	5	7	0	0	0	0	0					
13	1 1	9 9 4 0	3 9	3 8	3 6	2 9	2 3	4 0	7	2 6	8	7	8	4	4	0	0	0	0	0					
13	1 4	9 9 5 4	3 9	3 8	3 7	2 6	1 0	4 0	7	0 5	2	7	8	4	4	4	4	4	4	4					
13	1 7	9 9 7 2	3 5	3 5	3 5	2 6	1 3	4 0	7	2 6	8	7	8	5	1	1	1	1	1	1					
13	2 0	0 0 1 3	3 3	3 3	3 2	2 3	2 3	3 2	8	8 5	8	8	8	4	0	0	0	0	0	0	4 1	3 2	0 0 1 0	4 2 2	3 1
13	2 3	0 0 3 4	3 2	3 2	3 2	2 4	2 0	4 0	7	2 6	8	7	8	5	0	0	0	0	0	0					
14	0 2	0 0 6 7	3 5	3 5	3 3	2 1	2 1	2 0	4 0	7	2 6	8	7	8	5	0	0	0	0	0					
14	0 5	0 0 9 9	3 4	3 5	3 3	2 1	2 0	4 0	2	0 1	2	8	8	5	0	0	0	0	0	0					
14	0 8	0 1 2 1	3 4	3 4	3 4	2 7	1 2	6 4	4	8 5	8	8	8	5	0	0	0	0	0	0					
14	1 1	0 1 4 5	3 6	3 4	3 1	2 7	1 2	6 4	7	2 6	8	7	8	5	0	0	0	0	0	0					
14	1 4	0 1 5 4	3 7	3 5	3 1	2 7	1 5	7 2	4	0 2	1	4	8	5	3	3	3	3	3	3					
14	1 7	0 1 6 5	3 6	3 4	3 1	2 7	1 2	6 4	7	0 3	8	5	8	5	0	0	0	0	0	0					
14	2 0	0 1 8 1	3 6	3 4	3 1	2 7	1 2	6 4	1	0 1	2	1	8	5	0	0	0	0	0	0					
14	2 3	0 1 9 0	3 3	3 3	5 3	2 7	1 8	4 0	2	0 1	2	8	8	5	0	0	0	0	0	0	4 1	3 2	0 0 1 0	4 2 2	3 1
15	0 2	0 1 9 7	3 6	3 4	3 1	2 7	1 8	4 0	8	2 7	8	8	8	4	0	0	0	0	0	0					
15	0 5	0 2 0 9	3 6	3 5	3 4	2 7	1 5	5 6	8	2 7	8	7	8	4	0	0	0	0	0	0					
15	0 8	0 2 1 2	3 6	3 5	3 4	2 7	1 5	5 6	8	2 7	8	7	8	4	0	0	0	0	0	0					
15	1 1	0 2 2 2	3 7	3 5	3 2	2 7	1 8	4 0	8	0 2	2	8	8	5	0	0	0	0	0	0					
15	1 4	0 2 1 7	3 7	3 5	3 3	2 7	1 5	7 2	8	0 2	2	8	8	5	2	2	2	2	2	2					
15	1 7	0 2 1 4	3 7	3 6	3 5	2 7	1 8	7 2	8	0 2	2	5	8	4	2	2	2	2	2	2					
15	2 0	0 2 1 1	3 7	3 6	3 5	2 7	1 8	7 2	8	0 2	2	8	8	4	0	0	0	0	0	0					
15	2 3	0 1 9 4	3 7	3 6	3 5	2 6	1 5	2 4	8	5 0	5	8	0	3	2	2	2	2	2	2					
16	0 2	0 1 8 6	3 8	3 7	3 6	2 3	2 0	5 6	8	0 2	2	8	8	4	0	0	0	0	0	0					
16	0 5	0 1 7 6	3 8	3 8	3 7	2 7	2 5	5 6	4	0 5	2	4	5	4	0	0	0	0	0	0					
16	0 8	0 1 7 8	3 8	3 7	3 6	2 6	2 6	4 8	7	0 5	1	7	5	4	0	0	0	0	0	0					
16	1 1	0 1 7 4	4 0	3 8	3 7	2 7	1 8	4 0	6	0 5	2	5	5	4	1	0	0	0	0	0					
16	1 4	0 1 6 7	4 1	4 0	3 9	2 7	1 9	3 2	7	0 5	2	7	5	4	0	0	0	0	0	0					
16	1 7	0 1 5 6	4 1	5 9	3 8	2 8	3 5	5 2	7	0 7	2	4	5	4	4	6	6	6	6	6					
16	2 0	0 0 5 0	3 9	3 8	3 7	2 8	2 0	4 0	3	0 5	2	3	5	4	0	0	0	0	0	0					
16	2 3	0 1 3 8	4 0	3 9	3 7	2 9	2 3	4 0	7	0 7	2	7	5	4	0	0	0	0	0	0					
17	0 2	0 1 2 4	4 0	3 9	3 8	3 0	2 5	4 0	7	0 7	2	7	5	4	0	0	0	0	0	0					
17	0 5	0 1 0 7	4 1	4 0	3 9	3 0	2 7	4 0	8	0 5	2	5	8	2	2	2	2	2	2	2					
17	0 8	0 1 0 4	4 1	4 0	4 0	0 3	1 0	0 8	8	6 0	6	8	0	3	2	2	2	2	2	2					
17	1 1	0 0 9 4	3 9	3 8	3 8	3 3	1 0	3 2	8	5 8	2	6	8	3	2	2	2	2	2	2					
17	1 4	0 0 8 5	3 8	3 8	3 8	3 3	1 0	3 2	8	5 5	5	8	0	3	2	2	2	2	2	2					
17	1 7	0 0 7 3	3 8	3 8	3 8	3 1	0 8	0 8	8	5 5	5	8	0	3	2	2	2	2	2	2					
17	2 0	0 0 4 9	3 8	3 8	3 8	3 1	0 5	0 8	8	5 2	5	8	0	3	2	2	2	2	2	2					
17	2 3	0 0 4 0	3 9	3 9	3 8	3 1	0 8	0 8	8	5 1	5	8	0	3	2	2	2	2	2	2					
18	0 2	0 0 2 3	3 8	3 8	3 8	3 0	2 3	1 0	1 8	8															

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF HEARD ISLAND
APRIL 1951**

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD AMOUNT	CLOUD DIRECTION	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE			
						DIRECTION	SPEED x10	Kts.	VV	Oktas	WW	W	Oktas	CL	h	CM	CH	CL	CM	CH	Miles	Direction x10	Speed Kts.
LST.	Mbs.	"F	"F	"F	"F	"F	"F																
21	02	9.9.9.9.5.5	3.8	3.7	3.7	3.1	0.6	4.8	5	2.5	8	5	5	5	5	5	5	5	5	5	6	6	6
21	05	9.9.9.9.5.5	4.0	3.8	3.6	2.9	2.5	3.2	8	5.1	5	6	6	6	6	6	6	6	6	6	6	6	6
21	08	9.9.9.9.5.6	3.9	3.6	3.2	2.7	2.0	4.0	8	0.2	5	7	7	7	7	7	7	7	7	7	6	6	6
21	11	9.9.9.8.8	3.9	3.6	3.1	2.7	1.5	5.6	6	0.2	2	6	6	6	6	6	6	6	6	6	6	6	6
21	14	0.0.0.0.6	4.0	3.7	3.4	2.8	2.0	5.6	4	0.1	2	6	6	6	6	6	6	6	6	6	6	6	6
21	17	0.0.0.0.9	3.9	3.6	3.4	2.8	1.0	7.2	5	0.2	2	6	6	6	6	6	6	6	6	6	6	6	6
21	20	9.9.9.9.8	3.7	3.7	3.7	0.4	0.6	5.6	8	0.2	2	8	8	8	8	8	8	8	8	8	8	8	8
21	23	9.9.9.9.5.5	3.4	3.4	3.4	0.7	2.0	0.8	8	6.3	6	8	8	8	8	8	8	8	8	8	8	8	8
22	02	9.8.8.8.5	3.7	3.7	3.7	0.8	3.5	0.8	8	6.3	6	6	6	6	6	6	6	6	6	6	6	6	6
22	05	9.7.7.3.9	3.9	3.8	3.7	0.8	2.5	1.6	8	5.8	6	6	6	6	6	6	6	6	6	6	6	6	6
22	08	9.7.7.2.1	4.0	3.9	3.6	5.0	1.2	4.0	7	2.0	6	7	7	7	7	7	7	7	7	7	7	7	7
22	11	9.6.6.8.1	3.9	3.8	3.8	0.5	0.5	4.0	8	6.8	2	8	8	8	8	8	8	8	8	8	8	8	8
22	14	9.6.6.1.6	3.5	3.5	3.3	0.0	0.1	1.2	8	7.1	7	8	8	8	8	8	8	8	8	8	8	8	8
22	17	9.6.6.0.6	3.5	3.5	3.5	2.7	0.7	4.0	7	0.5	7	7	7	7	7	7	7	7	7	7	7	7	7
22	20	9.5.8.9	3.5	3.5	3.5	0.0	0.0	3.2	8	6.0	6	8	8	8	8	8	8	8	8	8	8	8	8
22	23	9.6.0.4	3.9	3.5	3.5	2.9	1.6	3.2	8	2.3	7	8	8	8	8	8	8	8	8	8	8	8	8
23	02	9.6.4.7	3.6	3.6	3.5	2.3	3.1	4.0	7	0.5	8	7	7	7	7	7	7	7	7	7	7	7	7
23	05	9.6.6.8.2	5.3	3.3	5.3	2.2	4.5	0.8	8	8.6	7	8	8	8	8	8	8	8	8	8	8	8	8
23	08	9.7.0.8.0	3.5	3.2	5.1	2.1	5.5	1.6	8	8.6	7	8	8	8	8	8	8	8	8	8	8	8	8
23	11	9.7.9.2	3.5	3.2	3.0	2.0	4.5	3.2	8	8.6	7	8	8	8	8	8	8	8	8	8	8	8	8
23	14	9.8.5.5	3.2	3.2	3.1	2.0	4.0	2.4	8	8.8	8	8	8	8	8	8	8	8	8	8	8	8	8
23	17	9.9.0.1	3.1	3.0	2.9	2.1	4.0	0.8	8	8.8	8	8	8	8	8	8	8	8	8	8	8	8	8
23	20	9.9.5.5.2	2.9	2.9	2.9	1.9	4.0	1.6	8	8.8	8	8	8	8	8	8	8	8	8	8	8	8	8
23	23	9.9.9.7	2.9	2.9	2.5	2.1	2.0	4.0	8	0.7	2	8	8	8	8	8	8	8	8	8	8	8	8
24	02	0.0.0.3.5	2.9	2.9	2.5	2.1	2.0	4.0	8	0.7	2	8	8	8	8	8	8	8	8	8	8	8	8
24	05	0.0.6.5	3.1	2.8	2.8	2.1	3.1	4.0	8	0.7	2	8	8	8	8	8	8	8	8	8	8	8	8
24	08	0.0.7.3	3.2	2.9	2.6	2.3	2.7	3.2	8	8.5	2	8	8	8	8	8	8	8	8	8	8	8	8
24	11	0.0.7.0	3.1	3.0	2.7	2.3	3.0	3.2	7	8.5	8	8	8	8	8	8	8	8	8	8	8	8	8
24	14	0.0.6.6	3.5	3.5	3.5	2.6	3.2	4.0	8	8.8	8	8	8	8	8	8	8	8	8	8	8	8	8
24	17	0.0.6.0	3.5	3.5	3.4	2.7	2.3	2.4	8	8.6	8	8	8	8	8	8	8	8	8	8	8	8	8
24	20	0.0.4.4	5.6	5.6	5.5	2.8	1.8	2.4	8	6.8	7	8	8	8	8	8	8	8	8	8	8	8	8
24	23	0.0.3.0	3.7	3.7	3.5	3.6	2.8	2.3	1.2	8	5.8	7	8	8	8	8	8	8	8	8	8	8	8
25	02	0.0.2.8	3.8	3.7	3.7	2.3	1.7	1.2	8	6.0	6	8	8	8	8	8	8	8	8	8	8	8	8
25	05	0.0.3.0	3.8	3.8	3.8	2.5	1.8	1.2	8	6.1	6	8	8	8	8	8	8	8	8	8	8	8	8
25	08	0.0.3.8	3.8	3.8	3.8	2.5	2.0	1.6	8	6.1	6	8	8	8	8	8	8	8	8	8	8	8	8
25	11	0.0.4.7	3.8	3.8	3.8	2.2	3.0	3.2	7	8.5	8	8	8	8	8	8	8	8	8	8	8	8	8
25	14	0.0.6.5	3.6	3.5	3.4	3.4	2.2	3.2	1.2	7	6.1	6	8	8	8	8	8	8	8	8	8	8	8
25	17	0.0.8.5	3.7	3.4	3.4	3.0	2.2	3.8	1.6	7	0.5	6	7	7	7	7	7	7	7	7	7	7	7
25	20	0.0.1.1	5.7	3.4	3.4	3.2	2.2	3.2	1.6	7	0.5	2	7	7	7	7	7	7	7	7	7	7	7
25	23	0.0.1.0	3.6	3.6	3.5	3.1	2.1	2.5	2.4	7	0.2	2	7	7	7	7	7	7	7	7	7	7	7
26	02	0.0.1.0	5.6	3.6	3.4	3.1	2.2	2.2	2.4	7	0.2	2	7	7	7	7	7	7	7	7	7	7	7
26	05	0.0.7.2	3.5	3.5	3.5	3.0	2.6	1.5	7.2	8	0.2	2	8	8	8	8	8	8	8	8	8	8	8
26	08	0.0.5.0	3.6	3.6	3.4	3.2	2.9	1.0	7.2	8	0.2	2	8	8	8	8	8	8	8	8	8	8	8
26	11	0.0.1.9	3.7	3.5	3.5	2.8	2.5	3.2	1.5	8	2.6	8	8	8	8	8	8	8	8	8	8	8	8
26	14	0.0.2.4	3.7	3.4	3.4	2.5	2.8	2.8	4.0	8	0.9	3	8	8	8	8	8	8	8	8	8	8	8
26	17	0.0.4.5	3.7	3.4	3.4	2.4	2.4	2.6	4.0	7	0.7	2	7	7	7	7	7	7	7	7	7	7	7
26	20	0.0.6.5	3.6	3.6	3.4	3.1	2.2	2.7	4.0	8	0.7	2	7	7	7	7	7	7	7	7	7	7	7
26	23	0.0.6.3	3.6	3.6	3.4	3.1	2.2	2.7	4.0	8	0.5	2	7	7	7	7	7	7	7	7	7	7	7
27	02	0.0.4.9	3.3	3.4	3.3	2.4	0.0	1.6	8	7.0	7	8	8	8	8	8	8	8	8	8	8	8	8
27	05	0.0.6.6	3.4	3.4	3.3	0.0	0.5	3.2	8	2.6	2	8	8	8	8	8	8	8	8	8	8	8	8
27	08	0.0.7.4	3.4	3.4	3.4	2.9	2.9	0.8	6.4	5	0.5	1	5	5	5	5	5	5	5	5	5	5	5
27	11	0.0.5.7	3.9	3.9	3.9	2.4	1.5	0.8	5.1	6	1	1	1	1	1	1	1	1	1	1	1	1	1
27	14	0.0.3.3	4.2	4.1	4.0	2.8	2.2	1.2	8	5.0	5	5	5	5	5	5	5	5	5	5	5	5	5
27	17	0.0.9.3	3.8	3.8	3.8	2.8	2.5	1.0	1.2	8	5.1	5	5	5	5	5	5	5	5	5	5	5	5
27	20	0.0.9.3	3.6	3.7	3.7	3.7	2.3	1.6	1.2	8	5.1	5	5	5	5	5	5	5	5	5	5	5	5
27	23	0.0.9.3	3.6	3.6	3.5	3.4	1.9	2.2	2.4	5	0.1	1	4	4	4	4	4	4	4	4	4	4	4
28	02	0.0.9.5.1	3.6	3.5	3.4	2.4	0.9	2.4	8	0.3	2	7	7										

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF MAY 1951**

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	LOW CLOUD			CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE			
						DIRECTION	SPEED *x10			Kts.	VV	Oktas	WW	W	Oldas	C _L	h	C _M	C _H	C _L	C _M	C _H	DIRECTION	SPD *x10	Kts.
LST.	Mbs.	"F	"F	"F	"F																				
0 1	0 0	9 9 2 0	3 2	3 2	3 2	2 4	2 5	8	7 1	7	8	8	8	8	8	4									
0 1	0 5	9 9 8 4	3 4	3 3	3 2	2 0	1 8	3 2	7	8 3	8	8	8	8	8	4									
0 1	0 6	0 0 2 3	3 5	3 2	2 9	2 3	1 8	7 2	5 0	1 1	1 1	5	8	8	4										
0 1	1 1	0 0 5 4	3 5	3 3	2 9	2 5	1 1	8 0	6 0	0 3	1 1	1 1	5	8	4										
0 1	1 4	0 0 5 3	3 7	3 6	3 5	2 9	1 3	6 4	8	0 5	7	8	8	8	8	5									
0 1	1 7	0 0 5 0	3 8	3 6	3 4	2 9	2 2	4 0	8	2 5	8	8	8	8	8	5									
0 1	2 0	0 0 5 5	3 8	3 7	3 4	2 9	2 5	4 0	8	0 5	8	8	8	8	8	5									
0 2	0 2	0 0 6 2	4 0	3 8	3 6	3 0	2 8	4 0	8	0 5	8	8	8	8	8	5									
0 2	0 5	0 0 6 5	4 0	3 8	3 7	3 0	2 9	4 0	8	2 5	8	8	8	8	8	5									
0 2	0 8	0 0 5 3	4 0	3 9	3 8	3 6	3 2	1 5	8	0 2	8	8	8	8	8	4									
0 2	1 1	0 0 0 7	4 2	4 1	4 0	3 2	2 4	1 6	8	6 1	6	6	6	6	6	4									
0 2	1 4	9 9 7 4	4 3	4 2	4 1	3 1	3 0	0 8	8	6 3	6	6	6	6	6	4									
0 2	1 7	9 9 4 8	4 3	4 3	4 3	3 0	3 5	0 8	8	6 1	6	6	6	6	6	4									
0 2	2 0	9 9 3 9	4 4	4 3	4 2	3 0	4 0	0 8	8	6 1	6	6	6	6	6	4									
0 3	2 3	9 9 3 6	4 3	4 3	4 3	3 1	3 2	0 8	8	6 3	6	6	6	6	6	4									
0 3	0 2	9 9 5 1	4 3	4 3	4 3	3 1	3 2	0 8	8	2 1	2	2	2	2	2	2									
0 3	0 5	9 9 2 4	4 2	4 1	4 0	3 1	1 5	3 2	8	5 0	5	5	5	5	5	4									
0 3	0 8	9 9 2 2	4 3	4 3	4 2	3 0	2 4	1 6	8	5 8	5	5	5	5	5	4									
0 3	1 1	9 9 3 5	4 3	4 2	4 1	3 0	2 2	1 6	8	2 0	5	5	5	5	5	4									
0 3	1 4	9 9 5 9	4 1	4 0	3 9	2 9	2 0	2 0	8	2 0	5	5	5	5	5	4									
0 3	1 7	9 9 6 5	3 9	3 8	3 8	2 9	0 0	0 0	1 2	7	0 5	5	5	5	5	5									
0 3	2 0	9 9 8 6	3 8	3 8	3 8	2 4	0 7	1 6	5	0 5	2	2	2	2	2	2									
0 4	0 2	1 0 1 3	3 8	3 8	3 8	2 5	1 0	1 6	8	5 1	5	5	5	5	5	4									
0 4	0 5	0 0 5 1	4 1	3 9	3 7	2 9	1 3	1 6	8	5 2	5	5	5	5	5	4									
0 4	0 8	0 0 8 2	4 0	3 8	3 5	2 9	2 0	4 0	7	0 2	2	2	2	2	2	4									
0 4	1 1	0 0 9 9	4 0	3 8	3 5	2 9	2 2	4 0	2	0 1	2	2	2	2	2	4									
0 4	1 4	0 1 2 3	4 0	3 8	3 5	2 9	2 2	4 0	6	0 3	1	1	1	1	1	0									
0 4	1 7	0 1 5 3	3 8	3 7	3 4	2 5	0 3	4 0	6	0 2	2	2	2	2	2	4									
0 4	2 0	1 0 1 0	3 9	3 8	3 6	2 5	1 0	4 0	7	0 3	2	2	2	2	2	4									
0 4	2 3	0 1 7 8	3 7	3 7	3 6	3 1	0 8	4 0	1	0 1	1	1	1	1	1	0									
0 5	0 2	1 0 7 0	3 8	3 8	3 8	0 4	0 3	4 0	8	0 3	1	1	1	1	1	0									
0 5	0 5	0 1 3 6	3 8	3 7	3 7	0 3	0 6	3 2	8	0 2	2	2	2	2	2	4									
0 5	0 8	1 1 4 4	3 7	3 7	3 7	0 4	0 6	0 4	8	5 5	5	5	5	5	5	4									
0 5	1 1	0 0 8 3	3 9	3 9	3 8	0 4	0 5	0 4	8	5 5	5	5	5	5	5	4									
0 5	1 4	0 0 3 6	4 2	4 2	4 2	0 8	0 4	0 4	8	5 5	5	5	5	5	5	4									
0 5	1 7	9 9 9 6	4 2	4 2	4 2	0 4	0 4	0 6	8	5 8	5	5	5	5	5	4									
0 5	2 0	9 9 6 5	4 3	4 3	4 3	0 8	0 5	0 4	8	5 8	5	5	5	5	5	4									
0 5	2 3	9 9 0 3	4 3	4 3	4 3	0 4	0 5	0 8	8	5 5	5	5	5	5	5	4									
0 6	0 2	9 8 6 2	4 2	4 2	4 2	0 4	0 4	0 8	1 6	8	5 5	5	5	5	5	5	4								
0 6	0 5	9 8 0 9	4 2	4 2	4 2	0 9	0 8	1 6	8	5 2	5	5	5	5	5	4									
0 6	0 8	9 7 8 6	4 0	4 0	4 0	3 5	0 8	1 6	8	5 8	5	5	5	5	5	4									
0 6	1 1	9 7 8 2	4 0	3 7	3 5	3 1	2 1	4 0	5	0 5	2	2	2	2	2	4									
0 6	1 4	9 7 6 8	3 9	3 9	3 6	3 4	2 1	4 0	7	0 5	2	2	2	2	2	4									
0 6	1 7	9 7 6 3	3 7	3 7	3 5	3 1	1 8	3 2	5	2	2	2	2	2	4										
0 6	2 0	9 7 8 1	3 7	3 7	3 4	2 8	3 9	3 2	6	2	2	2	2	2	4										
0 6	2 3	9 8 0 2	3 6	3 6	3 5	2 9	3 4	3 2	1	2	2	2	2	2	4										
0 7	0 2	9 8 3 5	3 6	3 4	3 0	2 9	3 0	3 2	3	0 5	8	8	8	8	8	4									
0 7	0 5	9 8 6 9	3 5	3 5	3 5	2 9	2 5	4 0	7	0 3	1	1	1	1	1	0									
0 7	0 8	9 9 0 8	3 1	3 1	3 1	2 5	2 5	1 6	7	8 5	8	8	8	8	8	4									
0 7	0 7	1 1 9 3 6	3 6	3 6	3 6	2 7	3 0	1 8	4 0	6	2 2	8	8	8	8	8	5								
0 7	1 4	9 9 6 7	3 6	3 6	3 5	2 8	1 5	6 4	6	0 2	2	2	2	2	2	5									
0 7	1 7	9 9 8 2	3 5	3 5	3 5	2 9	2 9	0 9	4 8	8	0 3	2	2	2	2	2	5								
0 7	2 0	9 9 6 7	3 4	3 4	3 4	2 8	0 3	1 2	8	7 0	7	8	8	8	8	4									
0 7	2 3	9 9 4 6	3 8	3 5	3 4	2 8	2 0	1 2	8	6 0	7	8	8	8	8	4									
0 8	0 2	9 9 7 4	3 7	3 7	3 3	2 8	2 0	1 6	8	8 0	8	8	8	8	8	4									
0 8	0 5	0 0 1 8	3 7	3 4	3 0	2 7	2 0	1 6	8	8 2	8	8	8	8	8	4									
0 8	0 8	0 0 5 2	3 7	3 5	3 1	2 7	1 5	3 2	8	0 2	2	2	2	2	2	5									
0 8	1 1	0 0 7 2	3 7	3 5	3 2	0 4	0 4	1 0	8	8 2	8	8	8	8	8	4									
0 8	1 4	0 0 8 1	3 6	3 6	3 6	2 2	0 4	2 4	8	6 0	6	8	8	8	8	4									
0 8	1 7	0 0 7 9	4 0	3 9	3 8	3 0	2 0	2 4	8	8 1	5	5	5	5	5	4									
0 8	2 0	0 0 8 3	4 1	4 0	3 9	3 0	1 6	8	8 0	5	5	5	5	5	4										
0 8	2 3	0 0 6 9	4 3	4 2	4 1	3 0	3 0	0 8	8	6 3	6	8	8	8	8	4									
0 9	0 2	0 0 4 1	4 2	4 1	4 0	3 3	1 5	0 8	8	6 1	6	8	8	8	8	4									
0 9	0 5	9 9 7 5	4 3	4 3	4 3	3 2	2 6	0 8	8	6 1	6	8	8	8	8	4									
0 9	0 8	0 9 6 4	4 4	4 4	4 3	2 9	3 5	1 0	8	6 1	6	8	8	8	8	4									
0 9	1 1	9 9 7 7	4 1	4 1	4 1	2 5	1 4	0 6	8	5 1	6	8	8	8	8	4									
0 9	1 4	9 9 8 2	3 7	3 7	3 7	2 6	1 5	0 8	8	5 1	5	8													

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF MAY 1951

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF MAY 1951

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB		WET BULB		DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PAST WEATHER AMOUNT	CLOUD DIRECTION			MAXIMUM TEMPERATURE °F	MINIMUM TEMPERATURE °F	PRECIPITATION Points	ANEMOMETER Miles	MAXIMUM GUST SPEED		SUNSHINE Hours			
			LST.	Mbs.	"F	"F		"F	"x10		Oktas	ww	W	Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	Direction	Speed		
1	0	9 8 2 3	3 5	3 3	3 0	2 9	1 7	4 0	3	0 5															
1	0 5	9 8 2 6	3 4	3 2	2 8	3 0	3 0	2 4	8	0 5															
1	0 8	9 8 3 9	3 5	3 3	2 9	2 9	2 0	2 4	7	8 5															
1	1 1	9 8 6 4	3 3	3 1	2 8	2 7	2 8	4 8	7	8 5															
1	1 4	9 8 6 5	3 6	3 4	3 0	2 9	2 5	4 0	8	8 5															
1	1 7	9 8 7 1	3 3	3 2	3 1	2 8	2 2	3 2	7	8 5															
2	1	9 8 6 9	3 2	3 0	2 8	2 7	2 0	2 4	5	8 5															
2	1	9 8 9 3	3 2	3 1	2 8	2 8	1 6	2 4	5	2 2															
2	2	9 9 2 6	3 2	3 1	3 0	2 5	2 0	2 4	7	2 7															
2	2	9 9 5 0	3 3	3 0	2 7	2 7	2 0	3 2	7	2 7															
2	2	9 9 7 1	3 3	3 0	2 7	2 3	2 0	5 6	7	8 5															
2	2	9 9 8 2	3 3	3 0	2 9	2 4	1 5	4 0	7	0 2															
2	2	9 9 7 4	3 3	3 1	2 9	2 6	1 5	3 2	8	2 2															
2	2	9 9 7 3	3 4	3 2	2 9	2 7	1 8	3 2	8	8 5															
2	2	9 9 8 2	3 5	3 3	3 0	2 7	1 0	4 0	8	0 2															
2	2	9 9 8 5	3 5	3 2	2 9	2 7	1 0	3 2	7	8 5															
2	3	9 9 8 5	3 4	3 2	2 4	1 0	3 2	8	8 5																
2	3	9 9 6 1	3 5	3 6	3 6	2 7	1 5	0 8	8	5 8															
2	3	9 9 6 4	3 9	3 9	2 8	2 8	1 4	0 8	8	5 0															
2	3	9 9 8 5	4 0	3 9	3 8	2 8	1 5	1 2	6	5 0															
2	4	9 9 9 5	3 9	3 8	3 7	2 6	2 0	1 2	8	5 0															
2	5	0 0 1 3	4 0	3 9	3 8	2 6	2 0	1 2	8	5 0															
2	5	0 0 3 3	4 0	3 9	3 8	2 6	2 0	1 2	8	5 0															
2	5	0 0 4 0	4 0	3 9	3 8	2 6	2 0	3 2	7	5 0															
2	5	0 0 5 0	4 0	3 9	3 9	2 3	1 4	1 6	8	5 8															
2	6	0 0 6 6	4 4	4 3	4 1	2 7	2 0	3 2	7	0 5															
2	6	0 0 6 5	3 9	3 8	3 7	3 2	1 8	3 2	7	0 2															
2	6	0 0 5 7	3 9	3 8	3 7	3 1	1 8	4 0	7	0 5															
2	6	0 0 5 3	4 2	4 1	3 9	3 9	1 0	4 0	7	0 2															
2	6	0 0 4 5	4 2	4 0	3 8	3 4	0 2	4 0	8	0 3															
2	6	0 0 3 5	4 0	3 9	3 8	0 0	0 0	3 2	8	0 2															
2	6	0 0 2 7	3 9	3 9	3 9	3 5	0 5	1 6	8	5 0															
2	6	0 0 0 3	3 9	3 9	3 9	0 7	1 5	0 8	8	5 3															
2	6	0 0 8 9 9 2	3 9	3 9	3 9	3 9	0 7	1 5	0 8	8	5 3														
2	6	1 1 9 9 7 8	4 1	3 9	3 8	0 5	0 5	0 8	8	8 0															
2	6	1 4 9 9 5 9	4 0	4 0	3 9	0 9	0 3	0 4	8	6 3															
2	6	1 7 9 9 4 4	4 0	3 9	3 8	0 6	0 5	0 4	8	6 5															
2	6	2 0 9 9 3 4	3 9	3 9	3 9	0 6	0 4	0 8	8	6 1															
2	6	2 3 9 9 1 7	5 7	3 7	3 6	2 2	0 5	0 8	8	2 0															
2	6	0 2 9 9 1 0	3 4	3 4	3 4	2 2	1 5	0 4	8	5 5															
2	6	0 5 9 9 1 8	3 5	3 5	3 5	2 2	0 8	0 8	7	5 0															
2	6	0 8 9 9 2 0	3 5	3 2	3 2	2 2	0 5	1 6	3	2 0															
2	7	1 1 9 9 1 8	3 4	3 3	3 2	2 6	0 5	1 6	5	5 0															
2	7	1 4 9 9 1 0	3 5	3 3	3 2	2 4	1 1	0 8	7	5 0															
2	7	1 7 9 9 1 3	3 3	3 2	3 2	2 0	1 4	0 8	7	5 0															
2	7	2 0 9 9 1 6	3 2	3 1	3 0	2 0	1 5	1 2	5	2 4															
2	7	2 5 9 9 1 6	3 2	3 0	2 0	1 9	1 3	1 0	5	3 2															
2	7	0 2 9 9 2 1	3 2	2 9	2 5	1 9	1 3	4 0	3	0 5															
2	7	0 5 9 9 3 5	3 1	2 9	2 7	1 0	4 0	4 0	8	2 2															
2	7	0 8 9 9 4 2	3 1	2 8	2 4	1 9	1 1	4 0	3	0 1															
2	7	1 1 9 9 6 0	3 5	2 9	2 2	2 1	1 1	8 0	2	0 1															
2	7	1 4 9 9 6 8	3 2	2 9	2 4	1 9	1 5	8 0	7	2 7															
2	7	1 7 9 9 8 3	3 2	2 9	2 4	2 0	2 9	4 0	7	8 7															
2	7	2 0 9 9 9 8	3 2	2 9	2 5	1 9	2 8	3 2	1	8 5															
2	7	2 3 0 0 3 1	3 0	2 9	2 8	1 9	1 0	1 6	7	8 7															
2	8	0 2 0 0 5 0	3 0	2 8	2 8	1 9	1 8	1 8	6	7															
2	8	0 5 0 0 5 9	2 9	2 6	2 0	2 2	3 5	5 6	1	0 1															
2	8	0 8 0 7 7 9	2 9	2 6	2 7	1 9	1 7	2 0	5 6	2	0 1														
2	8	1 1 0 0 8 5	3 0	2 7	1 9	1 8	1 5	5 6	2	0 2															
2	8	1 4 0 0 8 7	3 1	2 8	2 2	2 2	1 0	7 2	4	0 2															
2	8	1 7 0 0 9 0	3 0	2 7	2 2	1 9	0 5	5 6	4	0 2															
2	8	2 0 0 0 8 5	2 8	2 6	2 1	0 0	0 0	5 6	2	0 1															
2	8	2 3 0 0 8 8	2 6	2 1	0 0	0 0	0 0	5 6	1	0 2															
2	8	0 2 0 0 8 6	2 8	2 6	2 0	0 9	0 4	7 2	4	0 3															
2	8	0 5 0 0 6 9	2 7	2 4	3 6	2 2	7 2	3	0 5																
2	8	0 8 0 6 6 7	2 9	2 8	2 4	0 8																			

RESULTS OF SURFACE OBSERVATIONS AT **HEARD ISLAND**
FOR THE MONTH OF **MAY** 1951

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	TYPE	HEIGHT	CLOUD DIRECTION			PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE			
						DIRECTION	SPEED								LOW CLOUD	MIDDLE CLOUD	HIGH CLOUD	DIRECTION	SPEED						
LST.		Mbs.	"F	"F	"F	*x10	Kts.	VV	Oktas	W	W	C _L	h	C _M	C _H	LOW	MIDDLE	HIGH	"F	"F	Points	Miles	*x10	Kts.	Hours
3 1	0 2	9 9 5 0	3 7	3 5	3 1	0 7	5 0	3 2	8	3 1	3	0	5	4	9	2	7	1	9	2	4 3 8	0 7	7 0	0 0 0	
3 1	0 5	9 0 6 0	5 5	3 4	3 3	0 8	5 0	1 6	8	2 2	7	0	5	4	7	7	7	1	8	1					
3 1	0 8	9 0 6 8	5 9	3 7	3 6	3 2	3 0	5 6	8	0 2	2	5	5	4	7	7	7	1	8	1					
3 1	1 1	9 9 0 5	3 9	3 7	3 4	0 3	2 2	3 2	8	0 2	2	5	5	4	7	7	7	1	8	1					
3 1	1 4	9 0 6 9 0	3 9	3 8	3 7	0 5	2 0	3 2	7	0 2	2	7	5	4	7	7	7	1	8	1					
3 1	1 7	9 0 7 9	3 8	3 7	3 6	0 7	2 0	5 6	8	0 2	2	8	5	4	7	7	7	1	8	1					
3 1	2 0	9 8 4 1	3 7	3 6	3 6	0 7	1 2	0 8	8	6 1	6	8	5	4	7	7	7	1	8	1					
3 1	2 3	9 8 0 2	3 5	3 4	3 3	0 5	1 0	0 4	8	6 3	6	8	5	4	7	7	7	1	8	1					

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF**

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF HEARD ISLAND
JUNE 1951**

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF JUNE 1951																																				
DAY	HOUR	STATION LEVEL PRESSURE		DRY BULB		WET BULB		WIND POINT		WIND DIRECTION		VISIBILITY	LOW CLOUD			CLOUD DIRECTION			HIGH CLOUD			MAXIMUM TEMPERATURE			MINIMUM TEMPERATURE			PRECIPITATION			ANEMOMETER			MAXIMUM GUST		
		Mbs.	"F	"F	"F	"F	"x10	Kts.	VV	Oktas	ww		C _L	h	C _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.	Hours	SUNSHINE									
11	0 2	9 9 7 2	5 5	3 4	5 3	2 2	2 5	1 6	8	0 5	8	8	8	3						5	9 9 5 5															
11	0 5	9 9 8 3	5 5	3 4	5 1	2 2	2 2	2 4	7	0 5	2	4	8	4	1	0	0	0	0	5	9 9 5 5															
11	0 8	0 0 0 5	5 5	3 3	3 0	2 2	1 9	3 2	6	0 1	1	6	5	4	0	0	0	0	0	5	9 9 5 5															
11	1 1	0 0 2 1	5 4	3 3	3 2	2 2	0 9	8 0	1	0 1	7	1	5	4	0	0	0	0	0	5	9 9 5 5															
11	1 4	0 0 2 3	5 5	3 4	3 2	0 0	0 0	6 4	7	0 3	1	6	5	4	3	0	0	0	0	5	9 9 5 5															
11	1 7	0 0 1 4	5 4	3 3	3 2	0 8	1 1	4 0	7	8 7	R	7	8	4	4	7	7	7	7	9	9 9 5 5															
11	2 0	9 9 7 6	5 4	3 5	3 2	0 6	2 5	1 6	8	7 7	7	8	8	0	4	2	2	2	9	9 9 5 5																
11	2 3	9 9 2 2	3 6	5 5	3 5	0 6	2 5	0 8	6	6 3	5	6	8	0	4	2	2	2	9	9 9 5 5																
12	0 0 2	9 8 7 6	3 8	3 8	3 8	0 7	1 0	1 2	6	6 1	5	6	8	0	3	2	2	2	9	9 9 5 5																
12	0 8	9 8 9 1	3 6	3 4	3 4	2 2	2 5	1 6	7	0 2	6	7	8	5	5	5	5	5	6	9 9 5 5																
12	1 1	9 9 0 4	3 6	3 2	2 6	2 5	3 2	3 2	7	0 2	2	2	7	8	5	5	5	5	6	9 9 5 5																
12	1 4	9 9 1 5	3 6	5 2	2 7	2 6	2 0	3 2	7	0 2	2	2	7	8	5	5	5	5	6	9 9 5 5																
12	1 7	9 8 8 9	3 5	3 4	3 3	3 1	1 0	0 8	8	8 6	R	8	8	4	4	4	4	4	5	9 9 5 5																
12	2 0	9 8 7 3	3 4	3 4	3 3	3 0	1 0	1 6	8	8 5	8	8	8	4	4	4	4	4	5	9 9 5 5																
12	2 3	9 8 8 7	3 4	3 3	3 3	3 0	1 0	1 6	8	8 5	8	8	8	4	4	4	4	4	5	9 9 5 5																
13	0 2	9 8 9 6	3 5	3 5	3 2	2 7	1 0	1 6	8	8 5	8	8	8	4	4	4	4	4	5	9 9 5 5																
13	0 5	9 9 0 4	3 4	3 4	3 2	2 7	1 5	3 2	8	8 5	8	8	8	4	4	4	4	4	5	9 9 5 5																
13	0 8	9 8 9 4	3 5	3 2	2 8	2 8	2 0	3 2	7	0 5	8	8	8	4	4	4	4	4	5	9 9 5 5																
13	1 1	9 8 5 3	3 2	3 2	3 2	0 4	0 3	0 8	8	7 1	2	8	8	4	4	4	4	4	5	9 9 5 5																
13	1 4	9 7 9 2	3 6	5 5	3 4	3 0	2 1	1 6	8	8 0	8	8	8	4	4	4	4	4	5	9 9 5 5																
13	1 7	9 7 6 3	3 6	5 5	3 4	3 0	1 7	1 6	8	8 0	8	8	8	4	4	4	4	4	5	9 9 5 5																
13	2 0	9 7 2 2	3 6	5 5	3 4	3 0	1 3	2 4	8	6 1	6	8	8	4	4	4	4	4	5	9 9 5 5																
13	2 3	9 7 0 8	3 3	3 3	3 3	2 4	1 9	1 6	8	6 8	6	8	8	4	4	4	4	4	5	9 9 5 5																
14	0 2	9 7 7 8	3 3	3 1	2 9	2 2	2 5	1 6	8	2 3	7	8	8	4	4	4	4	4	5	9 9 5 5																
14	0 5	9 8 0 4	3 2	3 2	2 4	2 2	2 2	2 4	5	0 1	8	8	8	4	4	4	4	4	5	9 9 5 5																
14	0 8	9 8 4 8	3 5	3 1	2 8	2 6	2 0	3 2	5	0 1	8	8	8	4	4	4	4	4	5	9 9 5 5																
14	1 1	9 8 8 6	3 2	3 2	2 7	2 7	2 0	4 0	8	8 9	8	8	8	4	4	4	4	4	5	9 9 5 5																
14	1 4	9 8 9 8	3 4	3 1	2 8	2 7	2 2	4 0	8	8 9	8	8	8	4	4	4	4	4	5	9 9 5 5																
14	1 7	9 8 9 7	3 4	3 2	2 9	2 7	2 1	3 2	8	8 9	8	8	8	4	4	4	4	4	5	9 9 5 5																
14	2 0	9 8 9 7	3 4	3 2	2 9	2 7	1 5	2 4	7	8 7	8	8	8	4	4	4	4	4	5	9 9 5 5																
14	2 3	9 8 9 9	3 4	3 2	2 9	2 7	2 5	2 4	7	0 2	2	2	7	8	4	4	4	4	5	9 9 5 5																
15	0 2	9 9 2 6	3 4	3 2	2 9	2 8	2 0	9 4	8	0 3	2	8	8	4	4	4	4	4	5	9 9 5 5																
15	0 5	9 8 9 4	3 5	3 1	2 9	2 9	2 9	0 5	1 6	8	8 5	8	8	8	4	4	4	4	5	9 9 5 5																
15	0 8	9 8 5 6	3 2	3 1	3 0	0 5	0 5	0 8	8	7 3	7	8	8	4	4	4	4	4	5	9 9 5 5																
15	1 1	9 8 0 2	5 2	3 2	3 1	0 9	1 2	0 2	8	7 5	7	8	8	4	4	4	4	4	5	9 9 5 5																
15	1 4	9 7 9 2	3 7	3 5	3 2	2 0	1 5	1 6	7	8 4	8	8	8	4	4	4	4	4	5	9 9 5 5																
15	1 7	9 7 9 2	3 2	3 1	2 8	2 8	1 5	1 6	6	0 2	2	2	7	8	4	4	4	4	5	9 9 5 5																
15	2 0	9 7 6 9	3 4	3 1	2 8	2 9	2 9	2 0	4	8	0 4	8	8	4	4	4	4	4	5	9 9 5 5																
15	2 3	9 6 9 7	3 4	3 3	3 2	3 2	3 2	0 4	8	8 4	8	8	8	4	4	4	4	4	5	9 9 5 5																
16	0 2	9 7 1 8	3 4	3 4	3 2	2 9	2 7	1 0	4 6	8	8 4	8	8	8	4	4	4	4	4	5	9 9 5 5															
16	0 5	9 9 4 0	3 0	2 8	2 3	2 1	4 2	1 6	8	5 0	5	8	8	4	4	4	4	4	5	9 9 5 5																
16	0 8	0 0 0 5	3 0	2 8	2 5	2 1	4 0	4 0	8	5 7	2	6	8	4	4	4	4	4	5	9 9 5 5																
16	1 1	0 0 6 4	3 1	2 9	2 6	2 2	3 2	9 0	7	0 2	8	7	8	5	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0						
16	1 7	0 0 1 0	3 1	2 9	2 3	2 2	3 1	8 0	3	2 5	8	8	8	4	4	4	4	4	5	9 9 5 5																
16	2 0	0 0 1 2	3 2	2 9	2 5	2 2	2 2	2 4	7	0 2	2	2	7	8	5	5	5	5	5	9 9 5 5																
16	2 3	0 0 1 5	3 4	3 2	2 8	2 7	2 7	1 0	4 6	7	0 5	5	8	8	4	4	4	4	4	5	9 9 5 5															
17	0 5	9 9 2 2	3 6	5 1	0 0	0 0	0 4	1 6	8	5 1	5	8	8	4	4	4	4	4	5	9 9 5 5																
17	0 8	0 1 1 0	3 6	5 1	0 8	0 8	0 4	0 4	8	5 1	5	8	8	4	4	4	4	4	5	9 9 5 5																
17	1 1	0 0 7 5	3 6	5 3	0 6	0 9	0 2	1 6	8	5 8	6	8	8	4	4	4	4	4	5	9 9 5 5																
17	1 4	0 0 4 4	3 9	3 6	3 8	3 2	1 3	1 2	8	5 8	6	8	8	4	4	4	4	4	5	9 9 5 5																
17	1 7	0 0 3 8	4 1	4 0	3 9	2 9	2 9	2 7	1 2	8	6 1	6	8	8	4	4	4	4	4	5	9 9 5 5															
17	2 0	0 0 0 6	3 7	3 5	3 3	2 3	3 0	1 6	8	6 0	5	8	8	4	4	4	4	4	5	9 9 5 5																
17	2 3	0 0 9 7	3 6	3 4	3 2	2 9	2 9	0 2	4 8	3	2	7	8	5	5	5	5	5	2	9	9 9 5 5															
18	0 2	0 1 1 0	3 4	3 3	3 2	2																														

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF JUNE 1951

DAY	HOUR	STATION LIVE PRESSURE	DRY BULB		WET BULB		DEW POINT	DIRECTION	WIND SPEED	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD		CLOUD DIRECTION		HEIGHT	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	ANEMOMETER PRECIPITATION	MILES	MAXIMUM GUST		SUNSHINE					
			LST.	Mbs.	°F	°F					*x10	Kts.	VV	Olas	WW	W	Olas	C _L	h	C _M	C _H	C _L	C _M	C _H	°F	°F	Points	DIRECTION	SPEED	
21	0 2	0 0 0 5	3 4	3 2	2 9	2 8	0 9	2 4	5	8 7	8	5	8	5	8	5	0	0	6	6	6	6	6	6	6	6	-	-	-	-
21	0 5	0 0 0 5	3 5	3 4	3 3	2 9	1 2	0 4	6	8 5	8	5	8	5	8	5	4	0	6	6	6	6	6	6	6	6	-	-	-	-
21	0 8	0 0 1 0	3 6	3 4	3 1	2 8	1 0	1 6	6	8 2	8	5	8	5	8	5	4	0	6	6	6	6	6	6	6	6	-	-	-	-
21	1 1	0 0 2 5	3 6	3 4	3 1	2 8	1 0	1 5	7	8 2	8	7	8	5	8	5	4	0	6	6	6	6	6	6	6	6	-	-	-	-
21	1 4	0 0 1 7	3 6	3 4	3 1	2 9	1 0	1 6	8	8 2	8	7	8	5	8	5	4	0	6	6	6	6	6	6	6	6	-	-	-	-
21	1 7	0 0 1 6	3 6	3 5	3 5	0 0	0 0	8	8	8 2	8	8	8	8	8	8	5	3	8	6	6	6	6	6	6	6	-	-	-	-
21	2 0	0 9 9 5	3 5	3 5	3 4	0 2	0 5	1 6	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
21	2 5	0 9 9 7 2	3 5	3 5	3 4	0 1	0 6	1 6	8	8 5	8	8	8	8	8	8	8	4	1	7	3 6	3 4	0 0 0 5	2 4 4	3 0	4 2	0 0 2	-	-	-
22	0 2	0 9 9 4 1	3 5	3 5	3 4	0 5	0 6	1 6	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	0 5	0 9 9 0 8	3 5	3 5	3 5	0 0	0 0	8	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	0 8	0 9 8 8 4	3 5	3 5	3 5	3 1	0 9	0 8	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	1 1	0 9 8 6 1	3 5	3 4	3 4	2 7	0 3	0 4	7	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	1 4	0 9 8 3 4	3 4	3 3	3 2	2 7	0 8	2 4	8	8 5	8	8	8	8	8	8	8	5	0	6	6	6	6	6	6	6	-	-	-	-
22	1 7	0 9 8 0 9	3 4	3 3	3 2	2 7	0 7	2 4	8	8 5	8	8	8	8	8	8	8	5	0	6	6	6	6	6	6	6	-	-	-	-
22	2 0	0 9 7 7 8	3 3	3 2	3 2	2 7	0 7	2 4	8	8 5	8	8	8	8	8	8	8	5	0	6	6	6	6	6	6	6	-	-	-	-
22	2 3	0 9 7 5 5	3 3	3 2	3 1	2 7	0 6	4 0	5	8 5	8	8	8	8	8	8	8	4	7	0	6	6	6	6	6	6	-	-	-	-
22	2 6	0 9 7 4 3	3 1	3 1	3 1	2 0	2 1	1 6	4	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	2 9	0 9 7 5 0	3 0	2 9	2 7	1 9	1 4	2 4	7	8 6	8	7	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	0 8	0 9 7 6 3	3 1	2 8	2 4	2 0	1 5	4 0	7	8 2	8	7	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	1 1	0 9 7 7 1	3 1	2 8	2 1	2 1	1 2	6 4	7	8 3	8	7	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	1 4	0 9 7 7 0	3 4	3 3	3 2	1 9	0 5	1 6	7	8 5	8	7	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	1 7	0 9 7 9 7	2 8	2 6	2 9	2 0	1 0	0 8	8	7 1	7	7	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	2 0	0 9 8 1 4	2 7	2 5	2 5	2 2	0 7	2 4	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	2 3	0 9 8 2 1	2 7	2 4	2 0	2 3	0 7	2 4	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	2 6	0 9 8 1 9	2 7	2 5	2 5	2 1	0 6	4 0	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	2 9	0 9 8 1 4	2 4	2 4	2 4	2 2	0 6	4 0	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	0 2	0 9 8 4 0	2 7	2 5	2 5	2 2	0 6	4 0	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	0 5	0 9 8 5 8	2 5	2 5	2 4	2 2	0 5	4 0	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	0 8	0 9 8 4 8	2 9	2 8	2 7	2 3	0 5	4 0	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	1 1	0 9 8 6 2	3 0	2 8	2 5	2 3	0 5	4 0	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	1 4	0 9 8 5 7	3 0	2 8	2 5	2 2	0 5	4 0	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	1 7	0 9 8 4 5	3 0	2 9	2 7	2 1	0 6	4 0	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	2 0	0 9 8 1 4	2 9	2 8	2 6	2 0	0 6	4 0	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	2 3	0 9 7 7 5	2 8	2 6	2 5	2 2	0 6	4 0	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	2 6	0 9 7 4 2	2 9	2 7	2 5	2 0	0 6	4 0	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	2 9	0 9 7 2 8	2 8	2 8	2 8	0 9	1 2	1 6	7	8 7	8	7	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	0 2	0 9 7 2 4	2 8	2 7	2 6	0 0	0 0	8 0	0 1	7 1	7	7	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	0 5	0 9 7 2 4	2 5	2 4	2 1	0 0	0 0	8 0	0 3	7 1	7	7	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	0 8	0 9 7 3 7	2 8	2 7	2 7	0 0	0 0	8 0	0 3	7 2	7	7	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	1 1	0 9 7 9 9	3 0	2 9	2 5	2 3	0 7	2 4	8	8 0	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	1 4	0 9 9 6 0	3 0	2 9	2 4	2 3	0 7	2 4	8	8 0	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	1 7	0 9 9 6 4	3 3	3 3	3 3	0 7	0 3	1 6	8	8 5	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	2 0	0 9 9 6 0	3 3	3 3	3 3	0 5	0 5	1 0	4 0	8	8 0	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	-	-	-	-
22	2 3	0 9 9 4 5	4 1	4 0	3 9	2 7	2 2	1 6	8	8 0	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	0 2	0 9 9 4 0	3 7	3 7	3 7	2 3	1 6	1 6	8	8 1	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	0 5	0 9 9 3 2	3 6	3 5	3 5	2 4	1 0	0 8	8	8 0	8	8	8	8	8	8	8	4	0	6	6	6	6	6	6	6	-	-	-	-
22	0 8	0 9 9 5 9																												

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF JULY 1951**

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF HEARD ISLAND 1951**

DAY	HOUR	STATION LEVEL PRESSURE.	DRY BULB	WET BULB	DEW POINT	DIRECTION	WIND SPEED	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	LOW CLOUD TYPE	CLOUD DIRECTION			MAXIMUM TEMPERATURE °F	MINIMUM TEMPERATURE °F	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE											
														CLOUD LOW	MIDDLE	HIGH	DIRECTION	SPEED	Kts.	VV	Oktas	ww	W	Oktas	C _L	C _M	C _H	Miles	Direction	x10	Kts.	Hours		
11	0 2	0 0 2 6	3 5	3 5	3 1	2 3	1 8	4 0	8	2 6	8	8	8	4																				
11	0 5	0 0 5 5	3 4	3 3	3 2	2 1	2 0	4 0	8	8 5	8	8	8	4																				
11	0 8	0 0 6 6	3 4	3 3	3 0	2 3	0 2	4 0	7	0 5	8	7	8	4																				
11	1 1	0 0 6 7	3 5	3 2	3 0	0 3	0 4	0 5	8	7 1	7	8	0																					
11	1 4	0 0 3 0	3 7	3 6	5 5	3 1	2 5	1 6	8	6 0	7	8	0																					
11	1 7	0 0 2 8	3 9	3 7	5 6	3 1	2 4	1 6	8	0 5	6	4	5																					
11	2 0	0 0 2 1	3 7	3 6	3 4	3 4	2 7	1 2	0 8	2 0	5	8	5																					
11	2 3	0 0 1 7	3 8	3 7	3 7	3 0	2 4	1 2	8	5 9	5	8	5																					
12	0 2	0 0 1 3	3 9	3 8	3 7	2 8	2 4	1 2	8	5 9	5	8	5																					
12	0 5	0 0 2 1	3 5	3 5	3 4	2 7	1 2	0 8	2 0	2 0	5	8	5																					
12	0 8	0 0 2 6	3 6	3 5	3 4	2 3	1 5	1 6	8	0 2	5	8	6																					
12	1 1	0 0 3 3	3 5	3 4	3 2	2 2	1 2	3 2	8	0 2	2	4	6																					
12	1 4	0 0 2 4	3 5	3 3	3 1	2 3	0 4	3 2	8	0 2	2	1	6																					
12	1 7	0 0 2 7	3 2	3 1	3 0	0 0	0 0	3 2	8	0 2	2	0	0																					
12	2 0	0 0 2 1	3 3	3 2	3 1	2 4	0 2	1 6	8	8	7	8	8																					
12	2 3	0 0 1 5	3 4	3 3	3 0	2 8	1 5	3 2	7	2 2	8	4	8																					
13	0 2	0 0 1 2	3 5	3 3	3 0	2 8	2 0	3 2	8	0 2	8	8	8																					
13	0 5	0 0 1 1	3 5	3 2	2 8	2 9	2 0	8 0	5	0 2	2	2	6																					
13	0 8	0 0 2 4	3 6	3 4	3 1	2 0	0 6	5 6	8	2 6	8	8	8																					
13	1 1	0 0 1 9	3 5	3 4	3 0	5 0	0 6	5 6	8	2 6	8	8	8																					
13	1 4	0 0 4 5	3 5	3 4	3 4	3 2	1 7	1 5	8	6 8	7	8	0																					
13	1 7	0 0 4 5	3 5	3 4	3 4	3 2	1 7	1 5	8	6 8	7	8	0																					
13	2 0	0 0 3 2	3 9	3 8	3 7	3 1	3 3	1 6	8	5 8	6	8	0																					
13	2 3	0 0 1 9	3 9	3 8	3 6	3 0	3 0	1 6	8	5 8	6	8	0																					
14	0 2	0 0 1 4	3 9	3 8	3 8	3 0	2 8	1 6	8	6 2	6	8	0																					
14	0 5	0 0 8 4	3 8	3 6	3 7	3 0	2 7	1 6	8	6 3	6	8	0																					
14	0 8	0 0 8 4	3 9	3 8	3 8	3 0	2 7	1 6	8	6 1	6	8	0																					
14	1 1	0 0 8 5	3 9	3 8	3 8	3 1	1 0	2 0	8	6 1	6	8	0																					
14	1 4	0 0 8 0	3 9	3 8	3 7	3 1	0 2	2 0	8	6 1	6	8	0																					
14	1 7	0 0 7 6	4 2	4 1	4 0	3 1	2 4	1 6	8	5 1	6	8	0																					
14	2 0	0 0 7 4	4 0	4 0	3 8	3 3	2 1	1 6	8	5 1	5	8	0																					
14	2 3	0 0 7 4	3 9	3 8	3 8	3 0	2 9	2 0	8	5 2	5	8	0																					
15	0 2	0 0 7 8	3 8	3 7	3 3	2 9	1 4	2 4	8	0 2	8	8	8																					
15	0 5	0 0 8 3	3 1	3 1	3 0	2 3	2 5	2 9	8	1 6	8	8	8																					
15	0 8	0 0 8 8	3 2	2 9	2 5	2 7	2 5	2 5	8	0 2	8	8	8																					
15	1 1	0 0 9 2	3 1	2 9	2 5	2 7	2 5	2 5	8	0 2	8	8	8																					
15	1 4	0 0 9 3	3 0	3 0	2 9	2 1	2 1	0 1	8	7 0	3	8	0																					
15	1 7	0 0 8 0	3 4	3 4	3 4	3 4	0 8	5 3	0 3	8	5 3	7	8	0																				
15	2 0	0 0 7 6	3 8	3 8	3 8	3 0	0 7	2 0	0 3	8	6 1	6	8	0																				
15	2 3	0 0 7 1	3 8	3 8	3 8	0 6	1 7	0 1	8	6 0	6	8	0																					
16	0 2	0 0 2 0	3 1	2 9	2 4	2 4	0 0	0 0	8 1	8	0 2	2	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	0 5	0 0 1 8	3 1	2 9	2 4	2 4	1 4	0 0	8 0	2 2	2	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	0 8	0 0 1 8	3 1	2 9	2 4	2 4	1 4	0 0	8 0	2 2	2	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	1 1	0 0 1 8	3 1	2 9	2 4	2 4	1 4	0 0	8 0	2 2	2	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	1 4	0 0 1 8	3 1	2 9	2 4	2 4	1 4	0 0	8 0	2 2	2	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	1 7	0 0 1 8	3 1	2 9	2 4	2 4	1 4	0 0	8 0	2 2	2	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	2 0	0 0 1 8	3 1	2 9	2 4	2 4	1 4	0 0	8 0	2 2	2	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	2 3	0 0 1 8	3 1	2 9	2 4	2 4	1 4	0 0	8 0	2 2	2	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
17	0 2	0 0 1 8	3 4	3 3	3 2	2 9	2 3	4 0	8	2 2	7	7	8	0																				
17	0 5	0 0 1 8	3 4	3 3	3																													

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF JULY 1951**

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD			CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE						
						DIRECTION	SPEED					*x10	Kts.	VV	Oklas	WW	W	Oklas	C _L	h	C _M	C _H	C _L	C _M	C _H	Points	Miles	*x10	Kts.	
		LST.	Mbs.	"F	"F	"F	"F																							
21	0 2	00 6 5	3 3	3 0	2 6	2 2	3 0	1 6	8	0 2	2	8	8	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
21	0 5	00 6 8	3 5	3 3	2 7	2 3	2 5	3 2	8	0 2	2	6	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
21	0 8	00 9 0	3 3	3 0	2 6	2 4	1 5	3 2	7	0 2	2	7	8	0	4	2	7	8	0	4	2	7	8	0	4	2	7	8	0	
21	1 1	00 6 7	3 3	3 3	3 3	3 2	1 0	1 2	8	7	1	7	8	0	4	2	7	8	0	4	2	7	8	0	4	2	7	8	0	
21	1 4	00 1 4	3 5	3 5	3 5	3 1	2 1	1 2	8	6	8	7	8	0	4	2	7	8	0	4	2	7	8	0	4	2	7	8	0	
21	1 7	00 0 7	3 6	3 6	3 5	2 8	2 2	1 6	8	2	1	7	8	0	4	2	7	8	0	4	2	7	8	0	4	2	7	8	0	
21	2 0	00 2 0	3 5	3 4	3 3	2 8	1 7	1 6	8	6	8	6	8	0	4	2	7	8	0	4	2	7	8	0	4	2	7	8	0	
21	2 3	00 3 5	3 5	3 4	3 3	2 7	2 5	4 0	8	2	6	8	0	4	2	7	8	0	4	2	7	8	0	4	2	7	8	0	4	
22	0 2	00 4 7	3 5	3 4	3 3	2 5	2 2	4 0	7	1	6	8	0	4	2	7	8	0	4	2	7	8	0	4	2	7	8	0	4	
22	0 5	00 6 0	3 5	3 3	3 1	2 3	2 8	4 0	8	8	0	4	2	7	8	0	4	2	7	8	0	4	2	7	8	0	4	2		
22	0 8	00 6 6	3 4	3 3	3 2	2 6	1 0	4 0	8	8	0	4	2	7	8	0	4	2	7	8	0	4	2	7	8	0	4	2		
22	1 1	00 6 0	3 4	3 3	3 3	2 5	1 8	1 6	8	5	1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
22	1 4	00 4 0	3 5	3 4	3 3	2 6	1 8	1 6	8	5	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
22	1 7	00 3 5	3 5	3 5	3 6	2 5	0 9	0 8	8	5	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
22	2 0	00 2 0	3 6	3 5	3 6	2 5	0 8	0 7	8	6	8	6	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
22	2 3	00 3 4	3 5	3 5	3 5	2 7	1 6	0 8	8	5	1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
23	0 2	00 1 4	3 5	3 5	3 5	2 2	1 2	0 8	8	5	1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
23	0 5	00 6 7	3 9	3 8	3 7	3 0	1 8	0 8	8	5	8	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
23	0 8	00 9 4 2	4 0	4 0	3 9	2 9	2 3	2 4	8	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
23	1 1	00 9 2 8	3 9	3 8	3 8	2 9	2 3	2 0	8	5	8	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
23	1 4	00 9 2 5	3 7	3 7	3 6	2 7	2 2	3 2	8	5	1	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
23	1 7	00 9 2 4	3 6	3 6	3 5	2 7	2 2	2 2	8	5	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
23	2 0	00 9 2 6	3 5	3 4	3 4	2 7	2 2	2 4	7	2	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
23	2 3	00 9 2 7	3 5	3 3	3 1	2 9	2 7	2 6	6	4	2	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
24	0 2	00 9 4 1	3 4	3 1	2 8	2 5	2 3	2 6	9	0	3	0	7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
24	0 5	00 9 4 1	3 4	3 1	2 8	2 4	2 3	2 6	9	0	3	0	7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
24	0 8	00 9 5 0	3 2	3 0	2 6	2 5	2 2	2 8	4	8	6	5	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
24	1 1	00 9 5 6	3 4	3 1	2 7	2 7	2 9	4	8	7	8	7	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
24	1 4	00 9 5 9	3 4	3 4	2 9	2 2	2 8	2 0	4	8	7	8	7	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
24	1 7	00 9 6 6	3 3	2 8	2 1	2 7	2 0	3 2	7	2	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
24	2 0	00 9 7 1	3 3	2 8	1 9	2 6	2 4	3 2	7	1	0	9	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
24	2 3	00 9 7 6	3 2	2 8	1 9	2 6	2 4	3 2	7	1	0	9	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
25	0 2	00 9 6 7	3 2	2 8	2 5	2 5	2 2	2 8	4	8	6	5	0	9	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
25	0 5	00 1 0 2	3 2	2 8	2 5	2 4	2 2	2 6	6	4	5	0	7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
25	0 8	00 2 0 0	3 1	3 0	2 8	2 5	2 3	2 5	6	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	
25	1 1	00 1 0 9	3 1	2 9	2 5	2 4	2 0	2 5	6	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	
25	1 4	00 1 4 5	3 0	2 9	2 5	2 4	2 0	2 5	6	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	
25	1 7	00 1 9 3	3 0	2 9	2 5	2 4	2 0	2 5	6	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	
25	2 0	00 8 5 9	3 4	3 4	3 3	3 2	3 0	2 5	6	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	
25	2 3	00 9 2 2	3 5	3 2	2 9	2 8	2 5	2 3	6	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	
26	0 2	00 8 5 3	3 0	2 8	2 5	2 3	2 0	2 5	6	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	
26	0 5	00 0 1 7	2 9	2 7	2 7	2 6	2 3	2 5	6	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
26	0 8	00 0 3 6	2 7	2 5	2 1	2 4	2 3	2 0	6	0	3	7	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	
26	1 1	00 0 5 5	2 9	2 7	2 7	2 6	2 3	2 5	6	0	3	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
26	1 4	00 0 6 9	2 7	2 5	2 5	2 1	2 4	1 0	8	0	5	1	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
26	1 7	00 0 9 4	2 4	2 2	1 8	1 8	1 8	0 0	1	2	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
26	2 0	00 1 1 3	2 2	2 0	1 7	1 9	2 0	8	0	1	3	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
26	2 3	00 1 3 9	2 2	2 1																										

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF JULY 1951

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF												HEARD ISLAND JULY 1951														
DAY	HOUR	STATION LEVEL PRESSURE		DRY BULB		WET BULB		DEW POINT	WIND DIRECTION		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD AMOUNT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST			
		LST.	Mbs.	"F	"F	"F	"x10		Kts.	VV	Oktas	ww	W	Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	"F	"F	DIRECTION	SPEED	SUNSHINE
5 1	0 2	0 0 0	2 0	5 9	3 7	5 5	0	3 1	2 6	1 6	8	5 1	6	0	0	3	0	0	0	0	0	3 9	3 2	0 0 1 5	4 2 0	3 0 4 4 0 0 9
5 1	0 5	0 0 0	0 0	5 9	3 7	5 5	0	3 1	2 6	1 6	8	5 0	6	0	0	3	0	0	0	0	0	3 9	3 2	0 0 1 5	4 2 0	3 0 4 4 0 0 9
5 1	0 8	9 9 9	0 0	5 9	3 5	5 5	0	3 1	2 6	1 4	8	5 1	6	0	0	3	0	0	0	0	0	3 9	3 2	0 0 1 5	4 2 0	3 0 4 4 0 0 9
5 1	1 1	0 0 0	0 9	5 4	3 4	5 5	0	3 1	2 6	1 6	8	5 0	6	0	0	3	0	0	0	0	0	3 9	3 2	0 0 1 5	4 2 0	3 0 4 4 0 0 9
5 1	1 4	0 0 0	1 8	5 4	3 4	5 2	0	2 3	2 3	0 8	7	8 7	7	7	7	3	0	0	0	0	0	3 9	3 2	0 0 1 5	4 2 0	3 0 4 4 0 0 9
5 1	1 7	0 1 2	2 9	5 4	3 4	3 2	0	2 6	2 6	1 9	7	8 7	7	7	7	3	0	0	0	0	0	3 9	3 2	0 0 1 5	4 2 0	3 0 4 4 0 0 9
5 1	2 0	0 0 4	1 1	5 4	3 4	3 1	0	2 6	2 6	0 9	0	0 5	0 2	0 2	0 2	0	0	0	0	0	0	3 9	3 2	0 0 1 5	4 2 0	3 0 4 4 0 0 9
5 1	2 3	0 0 0	3 9	5 4	3 4	3 1	0	2 6	2 6	0 9	0	0 5	0 2	0 2	0 2	0	0	0	0	0	0	3 9	3 2	0 0 1 5	4 2 0	3 0 4 4 0 0 9

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF AUGUST 1951																									
DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	DIRECTION	WIND SPEED	VISIBILITY	TOTAL CLOUD	LOW CLOUD	CLOUD DIRECTION	HIGH CLOUD	MIDDLE CLOUD	LOW	MIDDLE	HIGH	MAXIMUM TEMPERATURE °F	MINIMUM TEMPERATURE °F	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE		
																							"x10	Kts.	Hours
01	0 2	0 0 2 6	3 4	3 2	2 9	2 6	1 7	8 0	7	2 7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01	5 5	9 9 9 4	3 4	3 2	3 0	2 9	0 8	4 8	8	8 5	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01	8 8	9 9 9 5 5	3 4	3 3	3 2	5 1	1 0	5 4	8	8 5	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01	1 1	9 9 9 1 5	3 5	3 4	3 3	3 0	1 1	4 0	8	7 1	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01	1 4	9 9 8 6 2	3 5	3 3	3 0	3 1	2 2	2 4	8	8 5	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01	1 7	9 9 8 8 6	3 5	3 3	2 9	2 8	2 8	2 4	8	8 5	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01	2 0	9 9 9 3 0	3 4	3 2	2 9	2 4	2 4	2 4	8	8 7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01	2 3	9 9 9 4 6	3 4	3 2	2 9	2 7	2 5	2 4	8	2 6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02	0 2	9 9 9 8 4	3 5	3 2	2 8	2 8	2 6	3 2	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02	0 5	0 0 0 5 5	3 5	3 2	3 1	2 3	2 3	4 0	8	2 7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02	0 8	0 0 0 5 5	3 3	3 3	3 3	3 3	2 7	1 9	8	8 7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02	1 1	0 0 0 6 8	3 6	3 5	3 5	2 7	1 7	2 4	8	6 1	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02	1 4	0 0 0 7 2	3 7	3 5	3 5	2 7	1 7	1 6	5 1	0 5	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02	1 7	0 0 0 9 5	3 7	3 5	3 2	2 3	1 5	2 4	5 1	0 5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02	2 0	0 0 1 0 0	3 7	3 5	3 3	2 8	2 7	4 0	7	0 5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02	2 3	0 0 1 0 9	4 0	3 7	3 3	2 8	2 7	4 0	8	0 5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03	0 2	0 0 1 0 7	3 9	3 6	3 7	3 1	2 3	5 6	3	0 5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03	0 5	0 0 1 9 4	3 7	3 5	3 5	3 1	3 4	0 6	6 4	8	0 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03	0 8	0 0 1 7 8	3 7	3 5	3 6	0 8	0 2	4 0	7	0 3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03	1 1	0 0 1 7 8	3 7	3 5	3 6	0 8	0 1	4 0	8	0 5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03	1 4	0 0 2 2 4	3 9	3 6	3 7	0 1	1 0	4 0	8	0 5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03	1 7	0 0 2 9 2	4 0	3 9	3 6	3 4	1 4	2 4	8	2 1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03	2 0	0 0 9 5 7	4 1	4 0	3 9	5 5	2 0	2 4	8	6 0	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03	2 3	0 0 9 5 7	4 5	3 9	3 4	2 0	1 8	8	6 1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04	0 2	0 0 9 6 5	3 3	3 3	3 3	2 2	1 6	8	8 5	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04	0 5	0 0 9 9 5	3 5	3 2	3 2	2 7	0 9	1 6	7	0 5	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04	0 8	0 0 1 6 5	3 5	3 4	3 2	8	1 3	4 8	7	2 6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04	1 1	0 0 1 6 5	3 4	3 1	2 7	1 3	4 0	7	2 7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04	1 4	0 0 1 9 6	3 5	3 0	2 6	2 2	2 0	4 0	7	8 7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04	1 7	0 0 1 6 0	3 2	3 0	2 7	2 2	2 1	4 0	7	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04	2 0	0 0 1 9 8	3 2	2 9	2 4	2 4	1 4	8	7	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04	2 3	0 0 2 5 3	3 3	3 1	2 7	2 5	0 8	8	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05	0 2	0 0 2 5 6	3 5	3 1	2 8	2 7	0 0	6 4	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05	0 5	0 0 2 5 6	3 5	3 0	2 6	2 6	2 0	4 0	7	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05	1 1	0 0 2 9 5	3 5	3 0	2 6	2 6	2 0	4 0	8	0 3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05	1 4	0 0 2 5 7	3 6	3 4	3 5	0 5	1 1	3 2	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05	1 7	0 0 2 5 5	3 6	3 4	3 2	0 5	1 2	6 4	7	0 1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05	2 0	0 0 2 4 2	3 6	3 4	3 2	0 6	1 9	4 0	7	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06	0 2	0 0 2 1 1	3 7	3 5	3 2	0 5	2 4	4 0	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06	0 5	0 0 1 9 7	3 7	3 5	3 3	0 5	2 5	3 2	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06	0 8	0 0 1 9 7	3 7	3 5	3 3	0 5	3 0	3 2	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06	1 1	0 0 1 9 7	3 7	3 5	3 3	0 5	3 4	3 6	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06	1 4	0 0 1 9 7	3 7	3 5	3 3	0 5	3 4	3 6	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06	1 7	0 0 1 9 7	3 7	3 5	3 3	0 5	3 4	1 6	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07	0 2	0 0 2 6 6	3 4	3 4	3 4	3 4	0 2	1 6	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07	0 5	0 0 2 6 6	3 4	3 4	3 4	3 4	0 2	0 1	6	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
07	0 8	0 0 2 6 6	3 4	3 4	3 4	3 4	0 2	0 5	6	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
07	1 1	0 0 2 6 6	3 4	3 4	3 4	3 4	0 2	1 2	6	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
07	1 4	0 0 2 6 6	3 4	3 4	3 4	3 4	0 2	1 2	6	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
07	1 7	0 0 2 6 6	3 4	3 4	3 4	3 4	0 2	1 2	6	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
07	2 0	0 0 2 6 6	3 4	3 4	3 4	3 4	0 2	1 2	6	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
07	2 3	0 0 2 6 6	3 4	3 4	3 4	3 4	0 2	1 2	6	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
08	0 2	0 0 2 6 6	3 4	3 4	3 4	3 4	0 2	1 2	6	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
08	0 5	0 0 2 6 6	3 4	3 4	3 4	3 4	0 2	1 2	6	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
08	0 8	0 0 2 6 6	3 4	3 4	3 4	3 4	0 2	1 2	6	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
08	1 1	0 0 2 6 6	3 4	3 4	3 4	3 4	0 2	1 2	6	8	0 2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
08	1 4	0 0 2 6 6	3 4	3 4	3 4	3 4	0 2	1 2	6	8	0 2	2	-</												

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF AUGUST 1951**

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF AUGUST 1951**

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD	MIDDLE CLOUD	HIGH CLOUD	CLOUD DIRECTION	LOW CLOUD TYPE	MIDDLE CLOUD TYPE	HIGH CLOUD TYPE	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE		
						DIRECTION	SPEED																				
LST.	Mbs.	"F	"F	"F	"x10	Kts.	VV	Oktas	ww	W	Oktas	C _L	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.	Hours						
21 1	0 2	0 0 1 1	3 9	3 8	3 8	2 5	1 5	1 6	8	5 0	6	8	5	3	9	9	9	9	9	9	9	9	9	9	9	9	0 0 0
21 1	0 5	0 0 0 4	3 6	3 5	3 5	2 7	1 0	0 4	8	5 1	5	7	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
21 1	0 8	9 9 9 2	3 6	3 6	3 5	2 7	0 8	0 3	8	6 1	6	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
21 1	1 1	9 9 9 8 0	3 7	3 7	3 6	2 7	1 4	0 8	8	7 1	7	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
21 1	1 4	9 9 9 3 6	3 9	3 7	3 4	2 8	1 8	1 6	8	8 1	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
21 1	1 7	9 9 9 1 2	4 0	3 9	3 8	2 9	3 0	1 6	8	8 2	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
21 2	0 2	9 8 8 6 6	3 7	3 6	3 5	2 9	2 0	0 4	8	8 3	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
21 2	2 5	9 8 8 6 0	3 7	3 6	3 5	2 9	5 0	0 4	8	8 5	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
22 0	0 2	9 8 8 3 6	3 6	3 6	3 5	2 9	3 0	0 4	8	8 1	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
22 0	0 5	9 7 9 2 9	3 2	3 1	2 8	2 7	3 5	2 4	7	7 2	7	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
22 0	0 8	9 8 8 3 6	2 9	2 7	2 4	2 6	4 4	4 0	3	2 6	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
22 1	1 1	9 9 9 0 8	2 8	2 5	2 4	2 3	3 3	4 8	8	8 0	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
22 1	1 4	9 9 8 5 3	2 9	2 7	2 2	2 3	3 3	4 8	8	8 0	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
22 2	0 0	0 0 7 4	3 2	3 0	2 7	2 5	2 4	4 8	8	8 0	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
22 2	2 5	0 0 7 7	3 2	2 9	2 5	2 6	2 2	4 8	8	8 0	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23 0	0 2	0 0 6 6 6	3 5	3 1	2 8	2 6	0 9	4 8	8	8 0	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23 0	0 5	0 0 0 3 3	3 4	3 4	3 3	3 2	2 4	2 4	8	8 0	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23 0	0 8	9 9 9 5 9	5 6	3 6	3 5	5 0	2 0	1 6	8	8 1	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23 0	1 1	9 9 9 2 6	4 0	3 9	3 7	2 9	2 9	1 6	8	8 0	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23 1	1 4	9 8 8 9 1	3 6	3 5	3 3	2 7	2 0	0 4	8	8 3	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23 1	1 7	9 8 8 9 8	3 3	3 2	3 2	2 9	2 2	4 8	8	8 0	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23 2	0 0	9 9 9 2 2	3 2	3 0	2 8	2 8	2 4	1 6	8	8 0	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23 2	2 3	9 9 9 5 1	3 0	3 0	2 9	2 7	2 5	2 4	8	8 5	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23 2	0 5	0 0 1 7	3 3	3 1	2 5	2 7	3 3	2 4	8	8 0	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23 2	0 8	9 9 9 9 3	3 3	3 0	2 6	2 4	2 0	1 6	7	0 9	2	7	8	4	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0
23 3	1 1	9 9 9 4 6	3 4	3 3	3 3	2 9	2 7	1 5	3 2	7	0 2	8	8	4	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0
23 3	1 4	0 0 7 0	5 6	3 4	3 4	2 7	3 0	1 6	8	8 0	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23 3	1 7	0 0 5 8	5 5	3 5	3 3	2 8	2 0	1 6	8	8 0	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23 4	0 0	0 0 5 9	3 6	3 4	3 2	2 8	2 0	1 6	8	8 0	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23 4	2 3	9 9 9 9 7	3 5	3 5	3 5	2 8	2 0	0 8	8	8 7	8	8	8	4	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0
23 5	0 2	9 9 9 6 1	3 5	3 5	3 5	2 9	1 5	0 8	8	8 7	8	8	8	4	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0
23 5	0 5	9 9 9 4 1	3 4	3 3	3 3	2 9	2 7	1 8	4 0	7	0 8	7	7	8	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0
23 5	0 8	9 9 9 4 9	3 4	3 3	3 2	2 9	2 3	1 8	8 0	8 0	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23 5	1 1	9 9 9 7 5	3 5	3 2	3 2	2 9	1 7	8 0	8	7 1	7	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23 5	1 4	9 9 9 0 0	3 5	3 2	2 9	2 5	2 7	1 7	8 0	7 0	7	1 5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 0
23 5	1 7	0 0 0 6 6	3 2	3 0	2 6	2 6	2 7	1 8	8 0	5 0	5	2 7	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 0
23 6	0 0	0 0 2 4	5 2	3 0	2 6	2 7	1 8	8 0	3 0	3 2	3	2 7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	0 1 7
23 6	2 3	0 0 0 6 3	3 2	3 0	2 8	2 7	1 8	8 0	3 0	3 2	3	2 7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	0 1 7
23 6	0 5	0 0 7 8 8	3 2	3 0	2 7	2 7	2 0	1 6	8	8 5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	0 1 7
23 6	0 8	0 0 9 4 3	3 2	3 0	2 7	2 7	2 0	1 6	8	8 0	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23 7	1 1	0 0 2 5	3 2	3 1	2 9	2 7	1 1	8 0	7	8 7	8	7	8	4	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0
23 7	1 4	0 0 1 7	3 3	3 1	2 6	2 7	1 0	6 4	7	8 7	8	7	8	4	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0
23 7	1 7	0 0 1 0 8	3 5	3 1	2 6	2 7	2 0	0 8	8	8 7	8	8	8	4	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0
23 7	2 0	0 0 1 0 8	3 4	3 2	2 9	2 7	2 0	1 6	8	8 7	8	8	8	4	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0
23 7	2 3	0 0 1 0 4	3 5	3 4	3 1	2 7	2 0	1 6	8	8 7	8	8	8	4	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0
23 8	0 2	0 0 1 1 3	3 5	3 4	3 3	2 7	2 0	1 6	8	8 0	8	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23 8	0 5	0 0 1 2 0	3 5	3 5</td																							

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF AUGUST 1951

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	LOW CLOUD		CLOUD DIRECTION		MAXIMUM GUST	ANEMOMETER	PRECIPITATION	MILES	MAXIMUM GUST	SUNSHINE		
						DIRECTION	SPEED						TYPE	HEIGHT	MIDDLE CLOUD	HIGH CLOUD	LOW	MIDDLE	HIGH	MINIMUM TEMPERATURE				
LST.	Mbs.	"F	"F	"F	"x10	Kts.	VV	Oktas	WW	W	Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	"F					
3 1	0 2	9 8 9 7	3 6	3 5	3 4	2 6	1 8	1 6	8	2 1	6	8	7	3										
3 1	0 5	9 9 2 1	3 5	3 4	3 4	2 6	1 4	1 2	8	1 0	6	8	7	5										
3 1	0 8	9 9 2 5	3 4	3 4	3 3	2 7	1 4	1 6	8	1 5	6	8	7	3										
3 1	1 1	9 9 2 8	3 3	3 3	3 3	2 5	0 9	1 2	8	6 8	7	8	7	3										
3 1	1 4	9 8 9 8	3 2	3 2	3 2	2 3	1 4	0 4	8	7 1	7	8	0	3										
3 1	1 7	9 8 7 6	3 2	3 2	3 2	2 5	0 4	0 8	8	7 1	7	8	0	3										
3 1	2 0	9 8 4 2	3 4	3 4	3 4	2 2	0 5	0 8	8	6 8	7	8	0	3										
3 1	2 3	9 8 3 8	3 4	3 4	3 4	2 2	1 2	0 8	8	6 8	7	8	0	3										

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF**

DAY	HOUR	STATION	S.T. LEVEL PRESSURE	FOR THE MONTH OF SEPTEMBER 1951												MAXIMUM GUST												
				WET BULB		DEW POINT		WIND		VISIBILITY		CLOUD		CLOUD DIRECTION		TEMPERATURE		PRECIPITATION		ANEMOMETER		DIRECTION	SPEED	SUNSHINE				
LST.	Mbs.	°F	°F	°F	°F	°x10	Kts.	VV	Oktas	ww	W	Oktas	CL	h	C _M	C _H	C _M	C _H	"F	"F	Points	Miles	*x10	Kts.	Hours			
01	02	99 5 1	3 4	3 3	3 1	2 2	2 0	0 7	2 4	8	2 3	7	0	0	3	4	2	1	9	9	3 6	2 6	0 0 2 6	3 2 8	2 1	3 5	0 0 0	
01	05	99 2 4	2 9	2 8	2 5	2 0	2 0	2 3	1 6	8	8 7	8	3	2	2	5	5	5	5	5	5	3 6	2 6	0 0 0 0	3 2 8	2 1	3 5	0 0 0
01	08	99 7 4	2 9	2 7	2 2	2 0	2 2	2 2	4 8	8	0 3	8	5	5	5	5	5	5	5	5	5	3 6	2 6	0 0 0 0	3 2 8	2 1	3 5	0 0 0
01	11	0 0 2 1	2 8	2 6	2 1	1 8	1 6	1 6	7 2	7	0 1	8	3	2	2	7	7	5	5	5	5	3 6	2 6	0 0 0 0	3 2 8	2 1	3 5	0 0 0
01	14	0 0 4 6	2 7	2 5	2 1	1 9	0 6	0 6	8 0	7	0 3	2	7	7	5	5	5	5	5	5	5	3 6	2 6	0 0 0 0	3 2 8	2 1	3 5	0 0 0
01	17	0 0 5 1	2 7	2 4	1 9	2 1	0 2	0 2	8 0	7	0 2	2	7	7	5	5	5	5	5	5	5	3 6	2 6	0 0 0 0	3 2 8	2 1	3 5	0 0 0
01	20	0 0 4 5	2 7	2 4	1 8	0 0	0 0	0 0	8 0	8	0 3	2	8	8	5	5	5	5	5	5	5	3 6	2 6	0 0 0 0	3 2 8	2 1	3 5	0 0 0
01	23	0 0 2 4	2 9	2 7	2 1	2 0	0 3	0 3	8 0	8	0 2	2	8	8	5	5	5	5	5	5	5	3 6	2 6	0 0 0 0	3 2 8	2 1	3 5	0 0 0
02	0 0 2	99 9 2	2 7	2 7	2 6	2 1	0 3	0 4	8 0	7	1	7	3	5	5	5	5	5	5	5	5	3 6	2 6	0 0 0 0	3 2 8	2 1	3 5	0 0 0
02	0 5	99 6 7	3 0	2 8	2 0	2 0	0 2	0 2	4 0	7	7	7	7	5	5	5	5	5	5	5	5	3 5	2 7	0 0 0 0	3 3 1	2 8	5 3	0 0 2
02	0 8	99 6 2	3 1	2 9	2 6	2 8	1 0	1 0	3 2	7	8	7	7	5	5	5	5	5	5	5	5	3 5	2 7	0 0 0 0	3 3 1	2 8	5 3	0 0 2
02	1 1	99 5 2	3 2	3 2	2 5	1 8	1 5	1 5	1 6	8	7	7	7	5	5	5	5	5	5	5	5	3 5	2 7	0 0 0 0	3 3 1	2 8	5 3	0 0 2
02	1 4	99 3 4	3 4	3 3	3 2	2 8	2 5	2 5	1 6	8	8	8	8	5	5	5	5	5	5	5	5	3 5	2 7	0 0 0 0	3 3 1	2 8	5 3	0 0 2
02	1 7	99 0 8	3 3	3 3	3 3	2 9	2 0	0 4	8	8	7	8	8	8	5	5	5	5	5	5	5	3 5	2 7	0 0 0 0	3 3 1	2 8	5 3	0 0 2
02	2 0	98 3 9	3 2	3 2	3 2	3 1	2 0	0 4	8	8	7	8	8	8	5	5	5	5	5	5	5	3 5	2 7	0 0 0 0	3 3 1	2 8	5 3	0 0 2
02	2 3	97 5 4	3 5	3 4	3 4	3 1	2 5	2 5	0 8	8	2 2	7	6	6	0	0	2	2	2	2	2	3 5	2 7	0 0 0 0	3 3 1	2 8	5 3	0 0 2
03	0 2	97 4 4	3 5	3 5	3 5	2 9	2 5	2 5	0 4	8	8	7	9	6	6	4	4	4	4	4	4	3 7	2 7	0 0 2 9	5 2 7	2 1	5 3	0 3 7
03	0 5	98 5 2	2 7	2 5	2 1	2 3	2 3	2 3	0 1	7	6	8	9	7	7	5	5	5	5	5	5	3 7	2 7	0 0 2 9	5 2 7	2 1	5 3	0 3 7
03	0 8	99 0 1	2 7	2 7	2 6	2 7	2 7	2 7	0 1	8	0 1	9	4	4	4	4	4	4	4	4	4	3 7	2 7	0 0 2 9	5 2 7	2 1	5 3	0 3 7
03	1 1	99 0 7	5 1	2 0	2 4	3 0	2 1	2 1	0 8	8	7	8	8	5	5	5	5	5	5	5	5	3 7	2 7	0 0 2 9	5 2 7	2 1	5 3	0 3 7
03	1 4	99 0 5	3 2	3 0	2 6	2 9	2 1	2 1	0 4	8	8	8	8	5	5	5	5	5	5	5	5	3 7	2 7	0 0 2 9	5 2 7	2 1	5 3	0 3 7
03	1 7	99 0 2	3 5	3 1	2 8	2 8	2 4	2 4	0 5	8	0 1	2	3	3	3	3	3	3	3	3	3	3 7	2 7	0 0 2 9	5 2 7	2 1	5 3	0 3 7
03	2 0	98 8 7	3 2	3 2	3 1	2 7	3 0	2 0	0 8	8	3	0 1	2	3	3	3	3	3	3	3	3	3 7	2 7	0 0 2 9	5 2 7	2 1	5 3	0 3 7
03	2 3	98 8 3	3 5	3 5	3 2	3 1	2 7	2 7	0 8	8	8	8	8	5	5	5	5	5	5	5	5	3 7	2 7	0 0 2 9	5 2 7	2 1	5 3	0 3 7
04	0 2	97 6 6	3 3	3 2	3 2	3 2	3 1	3 1	2 9	8	8	8	8	5	5	5	5	5	5	5	5	3 7	2 7	0 0 2 9	5 2 7	2 1	5 3	0 3 7
04	0 5	96 9 0	3 3	3 1	2 7	3 0	3 0	3 0	2 4	8	5	0	1	0	0	0	0	0	0	0	0	3 7	2 7	0 0 2 9	5 2 7	2 1	5 3	0 3 7
04	0 8	96 7 9	3 0	2 9	2 6	2 6	2 6	2 6	2 8	8	5	8	7	9	5	5	5	5	5	5	5	3 7	2 7	0 0 2 9	5 2 7	2 1	5 3	0 3 7
04	1 1	96 9 9	2 4	2 4	2 3	2 1	2 7	2 7	3 5	8	5	8	7	9	5	5	5	5	5	5	5	3 7	2 7	0 0 2 9	5 2 7	2 1	5 3	0 3 7
04	1 4	97 3 2	2 7	2 7	2 3	1 6	2 7	2 7	3 5	8	8	8	8	5	5	5	5	5	5	5	5	3 7	2 7	0 0 2 9	5 2 7	2 1	5 3	0 3 7
04	1 7	97 1 0	2 8	2 8	2 8	2 8	2 8	2 8	2 7	8	8	8	8	5	5	5	5	5	5	5	5	3 7	2 7	0 0 2 9	5 2 7	2 1	5 3	0 3 7
04	2 0	97 7 8	2 5	2 3	1 6	2 3	2 3	2 3	2 8	8	8	8	8	5	5	5	5	5	5	5	5	3 4	2 3	0 0 0 3	6 6 8	2 7	7 6	0 1 2
04	2 3	98 8 2	2 2	2 0	2 5	2 4	2 4	2 4	2 8	8	8	8	8	5	5	5	5	5	5	5	5	3 4	2 3	0 0 0 3	6 6 8	2 7	7 6	0 1 2
05	0 2	98 8 4	2 4	2 3	2 3	2 3	2 3	2 3	2 3	8	1 6	1 6	1 6	1 6	1 6	1 6	1 6	1 6	1 6	1 6	1 6	3 4	2 1	0 0 0 0	5 9 2	2 4	7 1	0 0 0
05	0 5	98 8 4	2 4	2 3	2 3	2 3	2 3	2 3	2 3	8	2 5	2 5	2 5	2 5	2 5	2 5	2 5	2 5	2 5	2 5	2 5	3 4	2 1	0 0 0 0	5 9 2	2 4	7 1	0 0 0
05	0 8	98 8 5	3 2	3 2	3 2	3 2	3 2	3 2	3 2	8	0 9	6 4	8	8	8	8	8	8	8	8	8	3 5	3 2	0 0 1 0	4 8 5	2 5	6 6	0 0 5
05	1 1	98 7 5	3 0	2 9	2 6	2 6	2 6	2 6	2 6	8	0 9	6 4	8	8	8	8	8	8	8	8	8	3 5	3 2	0 0 1 0	4 8 5	2 5	6 6	0 0 5
05	1 4	98 9 1	3 6	3 5	3 5	3 1	3 0	3 0	3 0	8	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	3 5	3 2	0 0 0 2	5 0 6	2 3	7 0	0 0 0
05	1 7	98 6 9	3 3	3 2	3 1	3 0	3 0	3 0	3 0	8	2 7	3 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0	3 5	3 2	0 0 0 2	5 0 6	2 3	7 0	0 0 0
05	2 0	98 4 5	3 5	3 5	3 5	3 1	3 0	3 0	3 2	8	3 2	4 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0	3 5	3 2	0 0 0 2	5 0 6	2 3	7 0	0 0 0
05	2 3	98 5 3	3 0	3 0	3 0	3 0	3 0	3 0	3 0	8	2 7	3 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0	3 5	3 2	0 0 0 2	5 0 6	2 3	7 0	0 0 0
06	0 2	98 6 5	2 9	2 9	2 8	2 8	2 8	2 8	2 8	8	4 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0	3 5	3 2	0 0 0 2	5 0 6	2 3	7 0	0 0 0
06	0 5	98 7 0	2 8	2 8	2 8	2 8	2 8	2 8	2 8	8	2 7	3 0	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 5	3 2	0 0 0 2	5 0 6	2 3	7 0	0 0 0
06	0 8	98 7 0	3 0	2 9	2 8	2 8	2 8	2 8	2 8	8	1 5	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 5	3 2	0 0 0 2	5 0 6	2 3	7 0	0 0 0
06	1 1	98 6 6	3 0	2 9	2 6	2 6	2 6	2 6	2 6	8	2 5	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 5	3 2	0 0 0 2	5 0 6	2 3	7 0	0 0 0
06	1 4	98 5 4	3 2	3 2	3 2	3 2	3 2	3 2	3 2	8	1 5	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 2	3 5	3 2	0 0 0 2	5 0 6	2 3	7 0	0 0 0
06	1 7	98 4 4	3 2	3 2	3 2	3 2	3 2	3 2	3 2	8	1 7	2 6	2 6	2 6	2 6	2 6	2 6	2 6	2 6	2 6	2 6	3 5	3 2	0 0 0 2	5 0 6	2 3	7 0	0 0 0
06	2 0	98 2 3	3 1	2 9	2 6	2 6	2 6	2 6	2 6	8	2 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0	4 0	3 5	3 2	0 0 0 2	5 0 6	2 3	7 0	0 0 0
06	2 3	97 9 5	3 2	3 0	2 7	2 9	3 0	3 0	3 0	8	5	5	5	5	5	5	5	5	5	5	5	3 3	2 7	0 0 0 4	5 2 3	2 9	6 6	0 0 5
09	0 2	98 1 1	3 1	3 0	2 9	2 9	2 9	2 9	3 5</																			

RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF HEARD ISLAND
SEPTEMBER 1951

DAY	HOUR	STATION LEVEL PRESSURE	WIND		DEW POINT	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD AMOUNT	CLOUD TYPE	HEIGHT	MIDDLE CLOUD	HIGH CLOUD	CLOUD DIRECTION	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE		
			DRY BULB	WET BULB																				
	LST.	Mbs.	*F	*F	*F	*x10	Kts.	VV	Oktas	WW	W	C _L	C _M	C _H	C _L	C _M	C _H	Points	Miles	DIRECTION	*x10	Kts.	Hours	
11	0 2	9 6 8 7	3 7	3 5	3 3	2 9	3 0	1 6	8	5 1	6	6	6	6	6	6	6	6	6	6	6	6	6	6
11	0 5	9 6 8 7	3 7	3 4	3 1	2 9	3 0	1 6	8	2 0	6	6	6	6	6	6	6	6	6	6	6	6	6	6
11	0 8	9 6 6 1	3 6	3 4	3 2	2 9	3 0	0 8	8	5 8	6	6	6	6	6	6	6	6	6	6	6	6	6	6
11	1 1	9 6 7 9	3 5	3 4	3 3	2 8	2 5	0 8	8	6 1	6	6	6	6	6	6	6	6	6	6	6	6	6	6
11	1 4	9 7 3 6	3 0	2 9	2 7	2 1	3 0	1 6	8	2 1	6	6	6	6	6	6	6	6	6	6	6	6	6	6
11	1 7	9 8 1 0	2 8	2 7	2 4	2 2	2 5	1 6	8	6 6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
11	2 0	9 8 3 1	2 7	2 5	2 1	2 1	2 0	1 6	8	6 6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
11	2 3	9 8 4 4	2 6	2 4	1 8	2 1	1 5	3 2	6	0 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
12	0 2	9 8 5 7	2 5	2 3	1 7	2 1	1 0	3 2	8	0 2	6	6	6	6	6	6	6	6	6	6	6	6	6	6
12	0 5	9 8 6 2	2 4	2 2	1 7	2 0	1 2	8 0	5	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	0 8	9 8 8 9	2 3	2 1	1 5	1 9	1 2	8 1	5	0 3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	1 1	9 9 0 3	2 3	2 3	1 7	1 8	1 0	8 1	5	0 3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	1 4	9 9 2 4	2 5	2 2	1 7	2 2	1 2	8 1	7	0 3	2	2	2	2	2	2	2	2	2	2	2	2	2	2
12	1 7	9 9 4 0	2 3	2 2	1 7	2 1	1 2	8 1	6	0 2	6	6	6	6	6	6	6	6	6	6	6	6	6	6
12	2 0	9 9 5 9	2 3	2 2	2 0	2 5	0 5	8 0	8	8 7	6	6	6	6	6	6	6	6	6	6	6	6	6	6
12	2 3	9 9 6 9	2 5	2 4	2 2	2 3	1 6	8 0	6	1 5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
13	0 2	9 9 8 2	2 4	2 4	2 1	2 3	1 4	8 0	6	0 3	5	5	5	5	5	5	5	5	5	5	5	5	5	5
13	0 5	9 9 8 5	2 4	2 4	2 3	2 9	1 6	5 6	8	0 3	7	7	7	7	7	7	7	7	7	7	7	7	7	7
13	0 8	9 9 8 5	2 4	2 4	2 7	2 5	1 2	6 4	7	8 7	6	6	6	6	6	6	6	6	6	6	6	6	6	6
13	1 1	9 9 8 2	2 4	2 4	2 9	0 9	6 4	7	8 5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
13	1 4	9 9 7 2	2 4	2 4	2 6	1 2	6 4	8	8 5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
13	1 7	9 9 4 8	2 4	2 4	3 0	2 6	2 9	1 4	6 4	8	8 5	6	6	6	6	6	6	6	6	6	6	6	6	6
13	2 0	9 9 6 9	2 3	2 3	3 2	3 2	1 6	1 6	8	7 0	7	7	7	7	7	7	7	7	7	7	7	7	7	7
13	2 3	9 8 6 9	2 5	2 4	3 2	2 9	2 8	1 6	8	8 7	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14	0 2	9 8 6 4	3 4	3 4	3 5	2 9	2 8	1 6	8	8 7	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14	0 5	9 8 4 1	3 5	3 4	3 4	2 9	3 0	0 8	8	6 1	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14	0 8	9 8 3 0	3 6	3 5	3 5	2 9	3 0	0 4	8	6 1	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14	1 1	9 8 3 0	3 5	3 5	3 4	2 7	2 5	0 8	8	6 0	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14	1 4	9 8 6 6	3 5	3 4	3 4	2 7	2 5	0 8	8	6 1	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14	1 7	9 9 2 6	3 6	3 4	3 1	2 7	2 5	0 8	8	2 1	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14	2 0	9 9 7 3	3 5	3 5	3 0	2 7	2 0	1 6	8	2 0	6	6	6	6	6	6	6	6	6	6	6	6	6	6
14	2 3	0 0 1 4	3 4	3 5	3 1	2 7	2 5	0 8	8	6 0	6	6	6	6	6	6	6	6	6	6	6	6	6	6
15	0 2	0 0 5 6	3 4	3 5	3 4	3 1	2 5	1 2	6 4	8	8 6	6	6	6	6	6	6	6	6	6	6	6	6	6
15	0 5	0 0 8 4	3 4	3 4	3 5	3 5	2 9	3 0	0 4	8	6 1	6	6	6	6	6	6	6	6	6	6	6	6	6
15	0 8	0 1 1 3	3 4	3 4	3 5	3 2	2 2	1 8	6 4	8	8 5	6	6	6	6	6	6	6	6	6	6	6	6	6
15	1 1	0 1 2 0	3 5	3 5	3 5	2 3	1 8	0 8	8	1 0	6	6	6	6	6	6	6	6	6	6	6	6	6	6
15	1 4	0 1 1 8	3 4	3 4	3 4	3 1	2 7	2 5	0 8	8	2 1	6	6	6	6	6	6	6	6	6	6	6	6	6
15	1 7	0 0 1 8	3 3	3 3	3 3	3 6	0 7	8 0	8	5 1	6	6	6	6	6	6	6	6	6	6	6	6	6	6
15	2 0	0 0 5 1	3 4	3 4	3 4	3 4	3 6	1 0	2 4	8	5 0	6	6	6	6	6	6	6	6	6	6	6	6	6
15	2 3	0 0 6 1	3 3	3 3	3 3	3 5	1 0	2 4	8	0 5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
16	0 2	0 0 4 5	3 5	3 4	3 4	4 0	1 5	1 6	6 4	8	0 5	6	6	6	6	6	6	6	6	6	6	6	6	6
16	0 5	0 0 2 6	3 5	3 4	3 4	0 1	1 0	2 4	8	5 1	6	6	6	6	6	6	6	6	6	6	6	6	6	6
16	0 8	0 0 2 8	3 7	3 6	3 6	3 4	1 2	2 4	8	6 1	6	6	6	6	6	6	6	6	6	6	6	6	6	6
16	1 1	0 0 4 7	3 7	3 7	3 7	0 4	0 2	1 5	6 2	8	6 2	6	6	6	6	6	6	6	6	6	6	6	6	6
16	1 4	0 0 4 1	3 7	3 6	3 6	0 2	0 2	1 5	6 0	8	6 0	6	6	6	6	6	6	6	6	6	6	6	6	6
16	1 7	0 0 3 5	3 7	3 6	3 6	3 6	0 3	1 6	6 1	8	6 1	6	6	6	6	6	6	6	6	6	6	6	6	6
17	0 2	0 0 9 3 8	3 5	3 5	3 4	2 3	1 8	1 6	6 4	8	6 8	6	6	6	6	6	6	6	6	6	6	6	6	6
17	0 5	0 0 9 7 4	3 5	3 5	3 4	2 3	2 0	2 2	2 0	6 8	6 8	6	6	6	6	6	6	6	6	6	6	6	6	6
17	0 8	0 0 0 5	3 3	3 1	2 9	2 1	2 0	3 2	3 2	6 0	2 0	2	2	2	2	2	2	2	2	2	2	2	2	2
17	1 1	0 0 3 6	3 5	3 5	3 2	2 8	2 2	1 2	3 2	2 0	1 1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1 4	0 0 6 4	3 5	3 3	2 9	2 3	2 3	0 8	6 4	3 0	2	2	2	2	2	2	2	2	2	2	2	2	2	2
17	1 7	0 0 6 4	3 4	3 4	3 1	2 5	0 4	6 4	3 0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
17	2 0	0 0 6 5	3 3	3 2	2 9	0 1	0 6	5 2	8 0	7	0 5	0	0	0	0	0	0	0	0	0	0	0	0	0
17	2 3	0 0 9 2 2	3 2	3 2	3 0	2 9	2 3	2 0	3 2	8 0	7	0 7	7	7	7	7	7	7	7	7	7	7	7	7
18	0 2	0 0 9 3 6																						

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF SEPTEMBER 1951**

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF												HEARD ISLAND SEPTEMBER 1951															
DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND DIRECTION	WIND SPEED "x10	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD			CLOUD DIRECTION			MAXIMUM TEMPERATURE °F	MINIMUM TEMPERATURE °F	PRECIPITATION	ANEMOMETER DIRECTION "x10	MAXIMUM GUST SPEED					
												OKtas	WW	W	OKtas	C _L	H	C _M	C _H	C _L	C _M	C _H	Points	Miles	"x10	Kts.	Hours
2	1	0 2	9 7 9 9	3 4	3 4	3 4	3 3	0 5	0 4	8	6 9	7	8	0	3	2											
2	1	0 5	9 7 4 5	3 5	3 4	3 3	2 8	3 0	2 4	8	2 1	7	8	0	4	2											
2	1	0 8	9 7 4 4	3 5	3 4	3 3	2 9	2 9	1 6	8	6 0	6	8	0	4												
2	1	1 1	9 8 8 1	3 3	3 4	3 2	3 1	2 6	4 1	1 6	7	1 5	8	7	8	4											
2	1	1 4	9 8 8 1	3 3	3 2	3 2	2 9	2 7	2 8	4 0	7	1 5	8	7	8	4											
2	1	1 7	9 9 2 1	3 1	3 1	3 1	2 6	5 0	0 2	5	8 5	8	8	0	4												
2	2	0 0	9 9 4 4	3 2	3 2	3 0	2 7	2 7	2 8	1 6	8	2 7	8	8	0	4											
2	2	0 5	9 9 6 8	3 5	3 0	2 5	2 6	2 0	8 0	0 6	2 7	8	8	0	4												
2	2	0 8	9 9 5 3	3 5	3 3	3 1	2 7	1 8	8 0	0 6	2 7	8	8	0	4												
2	2	0 9	0 0 0 6	3 3	3 0	2 5	2 6	2 4	8 0	0 7	0 2	2	7	8	5												
2	2	1 1	0 0 3 3	3 4	3 2	3 2	2 9	2 7	2 0	8 0	5	0 1	8	5	0	0											
2	2	1 4	0 0 6 6	3 4	3 1	2 8	2 3	2 4	8 0	0 6	8 7	8	6	5	0	0											
2	2	1 7	0 0 8 2	3 4	2 9	2 3	2 2	2 4	8 0	0 6	6 6	0 5	1 1	5	5	5	5	0	0								
2	2	2 0	1 0 0 0	3 3	3 2	3 0	2 7	0 3	4 8	5 5	0 1	1	5	5	5	5	0	0									
2	2	2 3	0 0 9 5	3 5	3 2	3 1	0 0	0 0	4 8	5 5	0 2	1	5	5	5	5	0	0									
2	2	2 5	0 0 6 9	3 4	3 3	3 0	0 5	1 0	4 8	5 0	5	0	0	0	0	0											
2	2	2 8	9 9 9 3	3 6	3 5	3 5	0 4	1 0	0 8	8 8	6 1	6	8	0	0	0	0										
2	2	3 1	9 9 6 3	3 7	3 7	3 7	0 4	1 0	0 8	8 8	6 1	6	8	0	0	0	0										
2	2	3 4	9 9 2 0	3 8	3 8	3 8	1 0	0 8	8 8	7 1	7	8	0	0	0	0											
2	2	3 7	9 9 7 2	3 9	3 9	3 9	0 0	0 0	0 4	8 8	6 3	6	8	0	0	0	0										
2	2	4 0	9 8 4 8	4 0	3 9	3 9	0 2	0 3	8 8	6 1	6	8	0	0	0	0											
2	2	4 3	9 8 4 4	3 2	3 2	3 2	2 3	2 3	0 4	8 8	6 8	6	8	0	0	0	0										
2	2	4 6	9 9 2 0	3 2	3 2	3 2	2 7	1 0	0 8	8 8	7 1	7	8	0	0	0	0										
2	2	4 9	9 9 5 1	3 5	3 1	2 8	2 8	2 8	1 6	7	8 5	7	7	5	5	4	0										
2	2	5 2	9 9 8 1	3 5	3 3	3 1	2 9	2 3	6 4	6	1 5	8	6	5	5	5	0										
2	2	5 5	0 0 1 3	3 5	3 2	2 8	2 9	2 9	8 0	2 0	0 1	2	2	8	8	5	0										
2	2	5 8	0 0 3 2	3 6	3 3	3 1	2 8	2 9	8 0	3	0 2	1	3	8	5	0	0										
2	2	6 1	0 0 4 1	3 5	3 2	2 8	2 9	2 3	8 0	1	0 2	1	1	8	5	0	0										
2	2	6 4	0 0 4 9	3 4	3 3	3 0	2 8	1 8	8 0	2	0 2	1	2	4	5	0	0										
2	2	6 7	0 0 4 9	3 5	3 2	3 2	2 9	2 8	8 0	3	0 3	1	3	5	5	0	0										
2	2	7 0	0 0 4 7	3 5	3 2	3 0	2 6	1 4	8 0	5	0 3	1	5	8	4	0	0										
2	2	7 3	0 0 4 9	3 2	3 1	2 7	2 3	2 7	8 0	4	0 1	2	4	8	5	0	0										
2	2	7 6	0 0 5 0	3 3	3 0	2 7	2 3	1 3	8 0	4	0 1	2	4	8	5	0	0										
2	2	7 9	0 0 7 0	3 5	3 5	3 1	2 6	2 5	8 0	2 1	0 2	1	3	8	5	0	0										
2	2	8 2	0 0 6 7	3 3	3 1	2 6	2 5	2 5	8 0	3	0 2	1	3	5	5	0	0										
2	2	8 5	0 0 7 3	3 1	2 8	2 3	2 2	2 2	8 0	5	0 3	2	3	5	5	0	0										
2	2	8 8	0 0 7 8	3 0	2 8	2 5	2 4	1 0	8 0	8	2 7	8	8	0	0	0	0										
2	2	9 1	0 0 7 7	3 0	2 8	2 5	2 5	2 5	8 0	8	5 5	8	8	0	0	0	0										
2	2	9 4	0 0 7 7	3 0	2 8	2 5	2 5	2 5	8 0	8	5 5	8	8	0	0	0	0										
2	2	9 7	0 0 7 7	3 1	3 1	3 1	2 7	1 5	1 6	8	5 5	8	8	0	0	0	0										
2	2	1 0	0 0 7 8	3 2	3 1	2 9	2 7	1 0	3 2	7	1 5	8	8	0	0	0	0										
2	2	1 3	0 0 7 8	3 2	3 1	2 9	2 7	1 0	3 2	7	1 5	8	8	0	0	0	0										
2	2	1 6	0 0 7 8	3 2	3 1	2 9	2 7	1 5	1 6	8	8 5	8	8	0	0	0	0										
2	2	1 9	0 0 7 8	3 2	3 1	2 9	2 7	1 5	1 6	8	8 5	8	8	0	0	0	0										
2	2	2 2	0 0 7 8	3 2	3 1	2 9	2 7	1 5	1 6	8	8 5	8	8	0	0	0	0										
2	2	2 5	0 0 7 8	3 2	3 1	3 1	2 3	2 5	1 6	8	8 5	8	8	0	0	0	0										
2	2	2 8	0 0 7 8	3 2	3 1	3 1	2 3	2 5	1 6	8	8 5	8	8	0	0	0	0										
2	2	3 1	0 0 7 8	3 2	3 1	3 1	2 3	2 2	1 6	8	8 7	8	8	0	0	0	0										
2	2	3 4	0 0 7 8	3 2	3 1	3 1	2 3	2 2	1 6	8	8 7	8	8	0	0	0	0										
2	2	3 7	0 0 7 8	3 2	3 1	3 1	2 2	1 6	8	8 7	8	8	0	0	0	0											
2	2	4 0	0 0 7 8	3 2	3 1	3 1	2 2	1 6	8	8 7	8	8	0	0	0	0											
2	2	4 3	0 0 7 8	3 2	3 1	3 1	2 2	1 6	8	8 7	8	8	0	0	0	0											
2	2	4 6	0 0 7 8	3 2	3 1	3 1	2 2	1 6	8	8 7	8	8	0	0	0	0											
2	2	4 9	0 0 7 8	3 2	3 1	3 1	2 2	1 6	8	8 7	8	8	0	0	0	0											
2	2	5 2	0 0 7 8	3 2	3 1	3 1	2 2	1 6	8	8 7	8	8	0	0	0	0											
2	2	5 5	0 0 7 8	3 2	3 1	3 1	2 2	1 6	8	8 7	8	8	0	0	0	0											
2	2	5 8	0 0 7 8	3 2	3 1	3 1	2 2	1 6	8	8 7	8	8	0	0	0	0											
2	2	6 1	0 0 7 8	3 2	3 1	3 1	2 2	1 6	8	8 7	8	8	0	0	0	0											
2	2	6 4	0 0 7 8	3 2	3 1	3 1	2 2	1 6	8	8 7	8	8	0	0	0	0											
2	2	6 7	0 0 7 8	3 2	3 1	3 1	2 2	1 6	8	8 7	8	8	0	0	0	0											
2	2	7 0	0 0 7 8	3 2	3 1	3 1	2 2	1 6	8	8 7	8	8	0	0	0	0											
2	2	7 3	0 0 7 8	3 2	3 1	3 1	2 2	1 6	8	8 7	8	8	0	0	0	0											
2	2	7 6	0 0 7 8	3 2	3 1	3 1	2 2	1 6	8	8 7	8	8	0	0	0	0											
2	2	8 0	0 0 7 8	3 2	3 1	3 1	2 2	1 6	8	8 7	8	8	0	0	0	0											

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF OCTOBER 1951**

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	DIRECTION	WIND SPEED	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	TYPE	HEIGHT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE	
															LOW	MIDDLE	HIGH	LOW	MIDDLE	HIGH	DIRECTION	SPEED			
LST.	Mbs.	"F	"F	"F	"x10	Kts.	VV	Oktas	WW	W	Oktas	C _L	h	Cm	Ch	Cm	Ch	"F	"F	Points	Miles	"x10	Kts.	Hours	
01	0 2	9 7 6 4	2 2	2 2	2 0	2 3	2 2	4 0	6	8 5	8	6	8	4											
01	0 5	9 7 8 2	2 5	2 2	1 7	2 2	2 5	4 0	7	8 7	8	7	8	5											
01	0 8	9 7 9 9	2 3	2 2	1 6	2 3	3 0	1 6	7	8 5	8	7	8	5											
01	1 1	9 8 1 9	2 5	2 3	1 9	2 0	3 5	3 2	7	8 5	8	7	8	5											
01	1 4	9 8 3 9	2 6	2 3	1 6	2 3	2 5	3 2	8	0 2	2	8	8	5											
01	1 7	9 8 4 3	2 7	2 4	1 8	2 2	1 2	3 2	7	0 2	2	7	5	5											
01	2 0	9 8 2 3	2 8	2 6	2 2	2 8	0 4	3 2	8	0 2	2	8	5	5											
01	2 3	9 7 7 2	3 0	3 0	3 0	3 2	1 5	0 6	8	7 1	7	8	5	4											
02	0 2	9 7 1 7	3 2	3 2	3 2	2 9	2 0	0 6	8	7 1	7	8	5	4	0	7									
02	0 5	9 6 9 0	3 2	3 2	3 0	2 8	2 4	4 6	8	2 6	7	4	2	4											
02	0 8	9 6 6 4	3 3	3 1	3 1	2 9	2 8	1 8	8 0	7	0 3	8	7	4	0	0	8	6	6	6					
02	1 1	9 6 4 0	3 2	3 0	2 6	2 8	1 4	8 0	4	0 1	1	1	2	5	0	0	0	0	0	0					
02	1 4	9 6 2 9	3 1	2 9	2 7	2 9	2 0	4 0	6	8 5	8	6	8	4	0	0	0	0	0	0					
02	1 7	9 6 3 0	3 1	2 9	2 6	2 9	1 3	4 8	5	2 6	8	5	2	5	0	0	0	0	0	0					
02	2 0	9 6 2 6	3 0	2 8	2 6	2 7	0 4	4 8	1	2 5	8	1	2	5	3	0	0	0	0	0					
02	2 3	9 6 2 7	3 0	2 8	2 6	2 7	1 2	4 8	2	2 7	8	2	2	5	0	0	0	0	0	0					
03	0 2	9 6 3 0	3 0	2 8	2 6	2 8	1 2	4 8	3	0 3	2	3	5	5	0	0	0	0	0	0					
03	0 5	9 6 4 0	2 8	2 7	2 4	2 6	2 1	4 0	6	8 5	8	5	3	3	6	0	0	0	0	0					
03	0 8	9 6 5 3	2 9	2 8	2 6	2 5	1 4	4 8	5	0 2	8	4	8	4	0	0	0	0	0	0					
03	1 1	9 6 6 3	3 1	2 9	2 7	2 3	1 2	4 0	6	8 5	8	6	8	4	0	0	0	0	0	0					
03	1 4	9 6 8 2	3 1	3 0	2 9	2 9	1 4	4 0	8	8 5	8	8	8	4	0	0	0	0	0	0					
03	1 7	9 7 1 2	3 1	2 9	2 4	2 0	1 5	6 4	7	0 2	8	6	2	5	3	0	0	0	0	0					
03	2 0	9 7 5 0	3 0	2 8	2 3	2 1	1 5	4 0	3	8 5	8	3	8	5	0	0	0	0	0	0					
03	2 3	9 7 7 9	3 1	2 8	2 1	2 1	1 8	3 2	4	8 7	8	4	2	5	0	0	0	0	0	0					
04	0 2	9 8 1 8	3 0	2 8	2 6	2 3	2 6	2 4	4	8 7	8	4	8	5	0	0	0	0	0	0					
04	0 5	9 8 4 8	2 9	2 9	2 8	2 3	2 6	2 4	4	8 7	8	4	8	5	0	0	0	0	0	0					
04	0 8	9 8 8 8	2 9	2 9	2 9	2 3	3 1	0 1	6	8 5	8	6	6	5	0	0	0	0	0	0					
04	1 1	9 9 1 5	3 0	2 9	2 6	2 3	3 1	6 4	7	1 5	8	7	8	5	5	5	5	5	5	5					
04	1 4	9 9 2 9	3 1	2 9	2 4	2 3	2 5	8 0	2	0 1	2	2	4	5	0	1	5	5	5	5					
04	1 7	9 9 3 8	3 2	2 9	2 6	2 3	1 8	8 1	5 0	2	1	4	4	5	4	0	0	0	0	0					
04	2 0	9 9 5 6	3 2	3 0	2 8	2 0	0 0	8 0	7	0 2	2	7	5	5	5	5	5	5	5	5					
04	2 3	9 9 0 5	3 2	3 2	3 1	0 2	0 8	4 0	8	7 1	7	8	5	5	2	2	2	2	2	2					
05	0 2	9 8 7 1	3 3	3 3	3 3	3 6	1 0	4 0	8	7 0	7	8	0	4	1	2	2	2	2	2					
05	0 5	9 8 0 7	3 3	3 3	3 3	3 6	0 4	8 1	6 6	7 1	7	8	0	4	2	2	2	2	2	2					
05	0 8	9 7 5 2	3 6	3 5	3 6	3 2	1 0	1 0	6	6 3	7	8	0	2	2	2	2	2	2	2					
05	1 1	9 7 4 8	3 6	3 5	3 4	2 7	2 0	3 2	7	8 0	7	8	7	4	4	1	5	5	5	5					
05	1 4	9 7 6 3	3 5	3 2	2 5	2 7	3 0	6 4	7	8 0	8	7	8	4	4	1	5	5	5	5					
05	1 7	9 8 0 5	3 4	3 1	2 8	2 7	2 8	3 0	6 4	7 0	8 2	2	7	8	4	4	1	5	5	5	5				
05	2 0	9 8 4 9	3 4	3 1	2 7	2 8	2 0	0 5	0 0	8 0	7 1	2	8	0	3	2	2	2	2	2					
05	2 3	9 8 5 4	3 2	3 1	3 0	2 8	3 0	4 0	7	8 5	8	7	8	4	4	1	5	5	5	5					
06	0 2	9 8 8 0	3 3	2 9	2 4	2 8	3 0	4 0	7	3 6	8	7	8	4	4	1	5	5	5	5					
06	0 5	9 9 1 0	3 2	2 9	2 6	2 7	2 7	2 0	4 0	8	0 2	2	2	7	5	5	5	5	5	5					
06	0 8	9 9 1 0	3 3	2 9	2 5	2 5	1 2	4 0	7	0 2	2	2	7	5	5	5	5	5	5	5					
06	1 1	9 5 9 8	3 3	3 0	2 7	2 6	2 6	0 5	4 0	8	0 2	2	2	3	5	4	1	5	5	5	5				
06	1 4	9 8 7 2	3 3	3 1	2 9	2 6	2 3	0 2	4 0	8	0 2	2	2	5	8	5	4	1	5	5	5				
06	1 7	9 8 5 4	3 2	3 2	3 2	3 2	0 0	4 0	7	2 5	6	8	7	8	4	4	1	5	5	5	5				
06	2 0	9 8 5 6	3 3	3 1	2 8	2 7	2 7	0 5	4 0	6	2 6	8	6	8	4	4	1	5	5	5	5				
06	2 3	9 8 4 5	3 1	3 0	2 7	2 6	2 7	2 0	4 0	6	2 6	8	6	8	4	4	1	5	5	5	5				
07	0 2	9 8 3 0	3 3	3 2	3 1	2 7	2 7	3 0	4 4	8 8 5	8	8	7	3	3	3	3	3	3	3					
07	0 5	9 8 8 7	3 1	2 9	2 6	2 7	2 4	2 0	0 9	8 0	6 1 5	8	6	8	6	6	6	6	6	6					
07	0 8	9 9 2 3	3 0	2 8	2 4	2 6	2 7	6 4	8	2 6	8	8	8	5	5	5	5	5	5	5					
07	1 1	9 9 2 1	3 0	2 7	2 7	2 0	2 3	6 4	2	0 1	1	2	3	6	5	5	5	5	5	5					
07	1 4	9 9 2 7	2 9	2 5	2 2	2 8	1 0	8 0	1	0 1	8	1	5	5	5	5	5	5	5	5					
07	1 7	9 9 2 4	2 8	2 6	2 2	2 7	1 0	8 0	1	2 6	8	8	1	2	5	5	5	5	5	5					
07	2 0	9 9 2 9	2 9	2 7	2 3	2 2	2 0	8 0	1	2 6	8	8	8	5	4	4	0	0	0	0					
07	2 3	9 9 4 5	2 8	2 6	2 1	2 3	2 5	3 2	7	8 7	8	7	8	4	4	5	5	5	5	5					

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF OCTOBER 1951**

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	DIRECTION	WIND SPEED	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	CLOUD TYPE	HEIGHT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE
															LOW	MIDDLE	HIGH	LOW	MIDDLE	HIGH	DIRECTION	SPEED		
LST.	Mbs.	"F	"F	"x10	Kts.	VV	Oktas	WW	W	Oktas	C.L.	h	C.M.	C.H.	C.M.	C.H.	"F	"F	Points	Miles	"x10	Kts.	Hours	
11	0 2	9 9 3 6	2 8	2 6	2 2	0 7	1 3	8 2	8	0 2	2	8	5	5	2	9	9	9	9	9	9	9	9	9
11	0 5	9 8 7 2	2 7	2 7	2 7	0 7	2 8	1 2	8	7 1	7	8	0	4	2	9	9	9	9	9	9	9	9	9
11	0 8	9 8 3 2	2 9	2 9	2 9	0 6	3 0	0 7	8	7 1	7	8	0	3	2	9	9	9	9	9	9	9	9	9
11	1 1	9 8 1 1	3 0	2 9	2 9	0 8	3 0	0 7	8	7 1	7	8	0	3	2	9	9	9	9	9	9	9	9	9
11	1 4	9 8 1 1	3 2	3 1	2 8	1 0	2 8	0 7	8	7 1	7	8	0	3	2	9	9	9	9	9	9	9	9	9
11	1 7	9 8 4 2	3 3	3 1	2 9	0 8	1 0	2 4	8	1 5	7	8	4	6	5	2	9	9	9	9	9	9	9	9
11	2 0	9 8 8 0	3 1	3 1	3 0	1 3	2 0	1 6	8	7 0	7	8	6	4	2	9	9	9	9	9	9	9	9	9
11	2 3	9 9 1 2	3 0	2 9	2 8	2 0	2 1	1 6	8	3 6	7	8	4	6	3	1	7	9	9	9	9	9	9	9
12	0 2	9 9 5 0	3 0	3 0	3 0	2 1	2 0	0 7	8	7 1	7	8	0	3	2	0	9	9	9	9	9	9	9	9
12	0 5	9 9 8 6	3 0	2 8	2 8	2 0	1 5	6 4	6	0 2	2	5	5	5	3	2	0	5	5	5	5	5	5	5
12	0 8	0 0 0 0	3 1	2 8	2 4	2 3	1 0	6 4	5	0 2	2	5	5	5	3	2	0	5	5	5	5	5	5	5
12	1 1	0 0 0 9	3 5	3 1	2 8	1 2	0 2	6 4	7	0 2	2	7	5	5	0	0	0	5	5	5	5	5	5	5
12	1 4	0 0 0 5	3 4	3 3	3 3	5 2	1 2	3 2	8	8 3	8	8	6	5	4	6	6	6	6	6	6	6	6	6
12	1 7	0 0 0 0	3 5	3 5	3 5	5 1	1 5	4 0	8	8 3	8	8	6	5	4	6	6	6	6	6	6	6	6	6
12	2 0	9 9 7 9	3 4	3 4	3 4	5 6	1 0	1 6	8	5 0	5	8	6	4	2	6	6	6	6	6	6	6	6	6
12	2 3	9 9 4 2	3 5	3 5	3 5	5 3	0 2	1 6	8	6 8	6	8	7	4	2	9	9	9	9	9	9	9	9	9
13	0 2	9 8 6 5	3 5	3 5	3 5	5 5	2 0	0 8	8	6 3	6	8	0	3	2	0	9	9	9	9	9	9	9	9
13	0 5	9 8 2 9	3 6	3 6	3 6	5 2	1 2	2 4	8	6 0	6	8	0	5	4	0	5	5	5	5	5	5	5	5
13	0 8	9 8 3 4	3 5	3 3	3 3	2 9	2 9	2 9	8	2 3	8	8	5	5	4	0	6	6	6	6	6	6	6	6
13	1 1	9 8 4 0	3 4	3 0	2 5	2 8	2 1	8 1	8	0 1	1	2	8	5	4	0	6	6	6	6	6	6	6	6
13	1 4	9 8 3 0	3 1	3 0	2 9	2 9	2 8	2 8	8	2 7	8	8	5	5	4	0	6	6	6	6	6	6	6	6
13	1 7	9 8 5 0	3 0	2 8	2 5	2 8	2 8	2 9	8	2 7	8	8	5	5	4	0	6	6	6	6	6	6	6	6
13	2 0	9 8 5 5	3 1	2 9	2 9	2 9	2 4	2 9	8	3 5	8	8	5	5	4	0	6	6	6	6	6	6	6	6
13	2 3	9 8 4 1	3 1	2 8	2 6	2 9	2 6	2 9	8	1 5	8	8	4	8	5	4	0	6	6	6	6	6	6	6
14	0 2	9 8 4 1	3 1	2 8	2 6	2 3	2 9	2 7	8	7 7	8	7	8	5	4	0	6	6	6	6	6	6	6	6
14	0 5	9 8 5 1	3 0	2 9	2 8	2 8	2 9	2 1	8	2 7	8	8	7	8	5	0	1	6	6	6	6	6	6	6
14	0 8	9 8 5 9	2 9	2 7	2 5	2 7	2 5	2 7	8	2 1	2	8	7	8	6	4	6	6	6	6	6	6	6	6
14	1 1	9 8 8 0	2 8	2 6	2 1	2 5	2 1	2 4	8	7 8	8	7	8	5	4	0	6	6	6	6	6	6	6	6
14	1 4	9 9 1 9	2 8	2 6	2 1	2 2	2 2	2 2	8	3 6	8	8	8	4	4	4	4	6	6	6	6	6	6	6
14	1 7	9 9 6 7	2 8	2 6	2 2	2 2	2 2	2 2	8	3 7	1 6	8	3 1	3	8	8	4	5	5	5	5	5	5	5
14	2 0	0 0 0 9	2 9	2 6	2 1	1 9	2 2	2 2	8	2 0	3 7	8	2 0	3 2	2	0	0	6	6	6	6	6	6	6
15	0 2	0 0 4 5	2 8	2 6	2 1	2 3	2 1	2 3	8	3 2	1 6	8	3 1	3	7	8	4	5	5	5	5	5	5	5
15	0 5	0 0 7 0	3 0	2 6	2 1	1 8	2 0	2 0	8	2 0	3 2	8	2 0	3 2	2	0	0	6	6	6	6	6	6	6
15	0 8	0 0 8 0	3 0	2 7	2 0	2 0	2 7	2 1	8	1 5	4 0	8	7 8	8	7	8	4	5	5	5	5	5	5	5
15	1 1	0 1 0 3	3 1	2 8	2 5	2 5	2 7	2 0	8	8 7	8	8	4	8	5	3	5	5	5	5	5	5	5	5
15	1 4	0 0 9 5	3 0	2 9	2 8	2 8	2 5	2 5	8	0 5	0 8	8	8 7	8	8	5	4	5	5	5	5	5	5	5
15	1 7	0 0 2 8	3 2	3 2	3 2	3 2	3 2	3 2	8	0 8	0 4	8	7 3	7	8	5	4	6	6	6	6	6	6	6
15	2 0	9 9 9 7	3 5	3 4	3 4	3 4	2 7	2 0	8	6 1	6	8	0	3	2	6	6	6	6	6	6	6	6	6
16	0 2	0 0 3 1	3 5	3 4	3 4	3 4	2 3	2 3	8	2 5	0 8	8	2 1	6	8	0	4	2	6	6	6	6	6	6
16	0 5	0 0 7 5	3 4	3 5	3 5	2 2	2 2	2 7	8	7 8	8	8	7	5	4	0	1	5	5	5	5	5	5	5
16	0 8	0 0 8 9	3 3	3 5	3 5	2 2	2 2	2 3	8	0 5	2	5	8	4	4	4	4	5	5	5	5	5	5	5
16	1 1	0 1 0 8	3 5	3 5	3 5	2 2	2 2	2 2	8	1 8	5 6	8	0 5	2	5	8	4	4	4	4	5	5	5	5
16	1 4	0 1 1 1	3 5	3 4	3 4	3 4	2 2	2 2	8	1 8	5 6	8	0 5	2	5	8	4	4	4	4	5	5	5	5
16	1 7	0 1 1 5	3 4	3 4	3 4	3 4	2 2	2 2	8	1 0	5 6	8	0 5	2	6	8	4	4	4	4	5	5	5	5
16	2 0	0 0 9 7	3 4	3 4	3 4	3 4	2 2	2 2	8	0 5	2 4	8	0 5	2	7	6	2	9	9	9	9	9	9	9
16	2 3	0 0 6 2	3 3	3 3	3 3	0 2	0 7	0 1	8	4 4	4	8	6	6	2	9	9	9	9	9	9	9	9	9
17	0 2	0 0 1 1	3 3	3 3	3 3	0 5	1 0	0 1	8	4 4	4	8	6	6	2	9	9	9	9	9	9	9	9	9
17	0 5	9 9 3 4	3 5	3 4	3 4	3 5	0 5	1 0	1 6	8	6 1	6	8	6	6	4	6	6	6	6	6	6	6	6
17	0 8	9 9 0 5	3 7	3 5	3 5	0 7	2 0	2 4	8	6 1	6	8	6	6	4	6	6	6	6	6	6	6	6	6
17	1 1	9 8 7 4	3 5	3 5	3 5	0 0	0	2	4	8	7 1	6	8	6	0	5	2	9	9	9	9	9	9	9
17	1 4	9 8 9 3	3 6	3 5	3 4	2 6	2 0	3 2	8	5 0	6	8	6	6	4	4	4	4	5	5	5	5	5	5
17	1 7	9 9 1 5	3 6	3 6	3 6	3 5	2 6	2 0	3 2	7	0 1	2	7	6	4	4	4	4	5	5	5	5	5	5
17	2 0	9 9 2 9	3 6	3 5	3 5	3 2	2 8	2 1	3 2	8	0 3	8	8	8	8	4	4	4	4	5	5	5	5	5
17	2 3	9 9 3 1	3 5	3 4	3 4	3 3	2 8	1 8	3 2	8	6 1	6	8	6	6	4	4	4	4	5	5	5		

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF OCTOBER 1951

DAY	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	FAST WEATHER	LOW CLOUD			CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE		
					DIRECTION	SPEED x10	Kts.	VV	Oktas	WW	W	Oktas	CL	h	CM	CH	CL	CM	CH	°F	Points	Miles	Direction x10	Kts.	
LST.	Mbs.	°F	°F	°F																					
2 1	0 2	9 9 9 5	2 8	2 5	2 7	0 4	0 3	3 2	7	7 0	7	7	5	5	5	5	5	5	5	5	5	5	5	5	5
2 1	0 5	9 8 9 6	3 0	2 9	2 7	0 6	0 2	3 2	7	8 5	8	7	5	5	5	5	5	5	5	5	5	5	5	5	5
2 1	0 8	9 9 8 6	3 2	3 1	3 0	0 8	0 5	4 0	7	0 2	2	2	5	5	5	5	5	5	5	5	5	5	5	5	5
2 1	1 1	9 9 8 5	5 4	3 2	2 8	0 5	0 5	4 0	7	0 2	2	2	5	5	5	5	5	5	5	5	5	5	5	5	5
2 1	1 4	9 9 7 8	3 7	3 4	3 0	0 7	1 2	6 4	7	0 2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	1 7	9 9 7 5	3 5	3 2	2 7	0 7	1 5	6 4	2	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	2 0	9 9 6 1	3 2	2 8	1 9	0 7	2 5	4 0	7	0 3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	2 3	9 9 5 0	3 2	2 9	2 4	0 7	2 5	3 2	8	0 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2 1	0 2	9 9 1 7	3 2	3 1	2 9	0 7	3 2	1 6	7	0 9	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2 1	0 5	9 9 8 5	3 3	3 3	3 3	0 9	4 1	0 0	8	7 3	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 1	0 8	9 8 8 4	3 3	3 3	3 3	0 9	4 0	0 8	8	7 1	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 1	1 1	9 8 8 6	3 4	3 3	3 3	0 6	1 0	4 8	8	2 3	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 1	1 4	9 8 8 4	3 7	3 5	3 5	0 7	1 0	4 8	4	0 5	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
2 1	1 7	9 8 8 7	3 6	3 5	3 4	0 7	1 1	8 0	2	0 1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2 1	2 0	9 8 8 1	3 5	3 4	3 3	0 6	1 0	8 0	3	0 3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2 1	2 3	9 8 9 2	3 4	3 4	3 2	0 6	0 9	8 0	7	0 3	1	7	8	8	8	8	8	8	8	8	8	8	8	8	8
2 1	0 2	9 9 0 8	3 4	3 4	3 3	0 0	0 0	8 0	8	0 2	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2 1	0 5	9 9 2 7	3 3	3 1	3 0	0 0	0 0	8 0	1 0	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	0 8	9 9 5 8	3 5	3 4	3 3	2 2	0 9	4 0	7	0 5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	1 1	9 9 8 7	3 7	3 5	3 5	0 7	1 0	4 8	4	0 5	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
2 1	1 4	9 9 8 6	3 6	3 5	3 4	0 7	1 1	8 0	2	0 1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2 1	1 7	9 9 8 7	3 6	3 5	3 4	0 6	0 0	8 0	3	0 3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2 1	2 0	9 9 8 1	3 5	3 4	3 3	0 6	0 0	8 0	4	0 3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2 1	2 3	9 9 8 5	3 5	3 4	3 3	0 0	0 0	8 0	4	0 3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2 1	0 2	9 9 1 3	3 5	3 4	3 3	0 0	0 0	8 0	4	0 3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2 1	0 5	9 9 0 1	3 5	3 4	3 3	0 0	0 0	8 0	4	0 3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2 1	0 8	9 9 0 0	3 5	3 4	3 3	0 0	0 0	8 0	4	0 3	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2 1	1 1	9 9 0 2	3 1	3 0	2 9	0 0	0 0	8 0	1	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	1 4	9 9 0 2	3 0	2 9	2 9	0 0	0 0	8 0	1	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	1 7	9 9 0 2	2 9	2 8	2 9	0 0	0 0	8 0	1	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	2 0	9 9 0 2	2 8	2 7	2 9	0 0	0 0	8 0	1	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	2 3	9 9 0 8	2 7	2 6	2 5	0 0	0 0	8 0	1	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	0 2	9 9 1 5	3 5	3 4	3 3	0 0	0 0	8 0	1	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	0 5	9 9 1 5	3 5	3 4	3 3	0 0	0 0	8 0	1	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	0 8	9 9 1 5	3 5	3 4	3 3	0 0	0 0	8 0	1	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	1 1	9 9 2 0	3 5	3 4	3 3	0 0	0 0	8 0	1	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	1 4	9 9 2 0	3 5	3 4	3 3	0 0	0 0	8 0	1	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	1 7	9 9 2 0	3 5	3 4	3 3	0 0	0 0	8 0	1	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	2 0	9 9 2 4	3 4	3 3	3 2	0 0	0 0	8 0	1	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	2 3	9 9 2 8	3 4	3 3	3 2	0 0	0 0	8 0	1	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	0 2	9 9 3 2	3 4	3 3	3 2	0 0	0 0	8 0	1	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	0 5	9 9 3 2	3 4	3 3	3 2	0 0	0 0	8 0	1	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	0 8	9 9 3 2	3 4	3 3	3 2	0 0	0 0	8 0	1	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	1 1	9 9 3 4	3 4	3 3	3 2	0 0	0 0	8 0	1	0 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 1	1 4	9 9 3 4	3 0	2 9	2 2	2 2	0 0	8 0	8	7 1	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 1	1 7	9 9 3 5	3 1	3 0	2 7	2 1	4 4	2 4	8	3 6	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 1	2 0	9 9 3 8	3 2	3 1	3 0	2 0	4 4	0 8	8	3 6	3	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 1	2 3	9 9 4 2	3 1	3 1	3 1	2 0	4 0	2 4	8	6 6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
2 1	0 2	9 9 4 7	3 1	3 1	3 1	2 0	3 5	1 6	8	6 6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
2 1	0 5	9 9 4 7	3 1	3 1	3 1	2 0	3 5	1 6	8	7 0	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 1	0 8	9 9 4 7	3 1	3 1	3 1	2 0	4 0	2 4	8	6 6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
2 1	1 1	9 9 4 8	3 1	3 1	3 1	2 0	3 5	1 6	8	7 0	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 1	1 4	9 9 4 8	3 1	3 1	3 1	2 0	3 5	1 6	8	7 0	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 1	1 7	9 9 4 8	3 1	3 1	3 1	2 0	3 5	1 6	8	7 0	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 1	2 0	9 9 4 8	3 1	3 1	3 1	2 0	3 5	1 6	8	7 0	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 1	2 3	9 9 4 8	3 1	3 1	3 1	2 0	3 5	1 6	8	7 0	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 1	0 2	9 9 5 0	3 1	3 1	3 1	2 0	3 5	1 6	8	7 0	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 1	0 5	9 9 5 0	3 1	3 1	3 1	2 0	3 5	1 6	8	7 0	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 1	0 8	9 9 5 0	3 1	3 1	3 1	2 0	3 5	1 6	8	7 0	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2 1	1 1	9 9 5 0	3 1	3 1	3 1	2 0	3 5	1 6	8	7 0	7	8													

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF																HEARD ISLAND OCTOBER 1951					
DAY	HOUR	STATION ELEV. PRESSURE.	WIND			DEW POINT	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	LAST WEATHER	LOW CLOUD AMOUNT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE
			DIRECTION	SPEED	" x 10							LOW	MIDDLE	HIGH	LOW	MIDDLE	HIGH	DIRECTION	SPEED		
3 1	0 2	0 10 9 3 8	5 5	3 4	3 1	2 9	2 5	4 0	7	6 0	6	7	6	4	7	9	6	6	6	0 0 8	
3 1	0 5	0 10 9 4 4	5 5	3 4	5 2	2 8	2 3	4 0	8	1 5	6	8	6	4	6	6	6	6	6	0 0 8	
3 1	0 8	0 10 9 4 3	5 b	3 4	5 2	2 8	2 3	2 4	8	6 8	6	8	6	3	6	6	6	6	6	0 0 8	
3 1	1 1	0 10 9 4 1	5 6	3 4	5 2	2 8	1 9	4 0	8	1 5	6	8	5	4	7	8	6	6	6	0 0 8	
3 1	1 4	0 10 9 3 6	5 7	3 5	5 3	2 7	2 3	4 0	7	0 5	7	8	5	4	7	8	6	6	6	0 0 8	
3 1	1 7	0 10 9 2 6	5 7	3 5	5 3	2 7	2 3	4 0	7	0 5	7	8	5	4	7	8	6	6	6	0 0 8	
3 1	2 0	0 10 9 2 1	5 4	3 3	3 0	2 9	1 7	4 0	8	0 1	8	2	0	0	0	0	0	0	0	0 0 8	
3 1	2 3	0 10 9 1 6	5 4	3 3	3 0	2 9	1 7	4 0	8	2 6	8	3	8	6	6	6	6	6	0 0 8		

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF NOVEMBER 1951**

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF NOVEMBER 1951																																					
DAY	HOUR	STATION LEVEL PRESSURE		DRY BULB		WET BULB		DEW POINT		WIND		VISIBILITY		TOTAL CLOUD		PRESENT WEATHER		PAST WEATHER		LOW CLOUD		CLOUD DIRECTION		MIDDLE CLOUD		HIGH CLOUD		MAXIMUM TEMPERATURE		MINIMUM TEMPERATURE		PRECIPITATION		ANEMOMETER		MAXIMUM GUST	
		LST.	Mbs.	"F	"F	"F	"F	"x10	Kts.	VV	Oktas	WW	W	Oktas	CL	h	CM	CH	CL	CM	CH	CL	CM	CH	"F	"F	Points	Miles	Direction	"x10	Kts.	Hours					
01	0 2	9 9 1 1	3 4	3 3	3 2	2 9	1 9	4 0	8	2 6	8	7	0 1	8	1	1	3	0	5	4	4	4	3	3	5	5	5	5	5	5	5	5	5	5	5	5	
01	0 5	9 9 1 1	3 4	3 2	2 9	2 9	1 4	8 0	7	0 1	8	7	8	7	8	1	1	1	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
01	0 8	9 9 1 1	3 4	3 2	2 9	2 8	1 4	8 0	7	0 1	8	7	8	7	8	1	1	1	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
01	1 1	9 9 1 1	3 5	3 3	3 0	3 0	2 0	6 4	7	0 1	8	7	8	7	8	1	1	1	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
01	1 4	9 9 2 0	3 7	3 4	5 1	2 8	1 6	8 0	6	0 1	1	6	0 1	1	6	1	5	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
01	1 7	9 9 2 3	3 4	3 2	2 9	2 6	2 0	8 0	6	1 5	8	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
01	2 0	9 9 4 3	3 5	3 1	2 9	2 5	1 2	8 0	8	1 5	2	8	0	8	0	8	0	8	0	8	0	8	0	8	0	8	0	8	0	8	0	8	0	8	0	8	
01	2 3	9 9 5 4	3 2	3 2	3 1	2 5	1 3	4 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
02	0 2	9 9 7 0	3 2	3 0	2 6	2 2	2 8	4 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
02	0 5	0 0 0 5	3 0	3 0	2 6	2 2	2 0	4 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
02	0 8	0 0 2 9	3 1	2 9	2 5	2 0	3 0	4 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
02	1 1	0 0 4 9	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
02	1 4	0 0 7 8	3 3	3 3	2 6	2 1	2 5	2 0	8	7	0 2	2	7	0 2	2	7	0 2	2	7	0 2	2	7	0 2	2	7	0 2	2	7	0 2	2	7	0 2	2	7			
02	1 7	0 0 1 1	3 2	3 0	2 5	2 2	2 0	2 0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02	2 0	0 0 1 1	3 2	3 0	2 7	2 5	1 2	4 0	8	7	0 2	2	7	0 2	2	7	0 2	2	7	0 2	2	7	0 2	2	7	0 2	2	7	0 2	2	7	0 2	2	7			
02	2 3	0 0 1 4	3 2	3 1	2 8	2 7	0 5	4 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	0 5	0 0 1 0	3 2	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	0 8	0 0 0 2	3 5	3 1	2 7	2 7	0 3	8 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	1 1	0 0 0 9	3 4	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	1 4	0 0 0 2	3 4	3 1	2 7	2 7	0 3	8 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	1 7	0 0 0 2	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	2 0	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	2 3	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	2 6	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	2 9	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	3 2	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	3 5	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	3 8	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	4 1	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	4 4	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	4 7	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	5 0	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	5 3	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	5 6	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	5 9	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	6 2	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	6 5	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	6 8	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	7 1	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	7 4	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	7 7	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	8 0	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	8 3	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	8 6	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	8 9	0 0 0 6	3 5	3 1	2 9	2 5	2 0	3 0	8																												

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF**

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD			CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST				
						DIRECTION	SPEED *x10				AMOUNT	TYPE	HEIGHT CM	MIDDLE CLOUD	HIGH CLOUD	LOW	MIDDLE	HIGH					DIRECTION *x10	SPEED Kts.	SUNSHINE Hours
LST.	Mbs.	"F	"F	"F	"F	Kts.	VV	Oklas	ww	W	Oklas	C _L	h	C _M	C _H	C _L	C _M	C _H	'F	'F	Points	Miles	"x10	Kts.	Hours
11	0 2	9 9 9 4	3 1	2 9	2 4	2 0	2 9	2 4	7	0	0 2	8	5	5	5	5	5	5	5	5	5	5	5	5	5
11	0 5	9 9 0 4	3 2	2 9	2 6	2 3	1 5	6 4	7	0	0 2	8	7	7	8	5	5	5	5	5	5	5	5	5	5
11	0 8	9 0 0 0	3 4	3 0	2 5	2 3	2 0	6 4	7	0	0 2	8	2	2	2	8	5	5	5	5	5	5	5	5	
11	1 1	9 9 9 1	3 5	3 1	2 5	2 3	1 0	6 4	7	0	0 2	8	2	2	2	8	5	5	5	5	5	5	5	5	
11	1 4	9 9 9 6 1	3 5	3 2	2 9	2 3	1 0	6 4	7	0	0 2	8	2	2	2	8	5	5	5	5	5	5	5	5	
11	1 7	9 9 9 5 0	3 5	3 2	2 8	2 7	1 2	6 4	7	0	0 2	8	4	4	4	8	5	5	5	5	5	5	5	5	
11	2 0	9 9 9 2 1	3 2	3 0	2 7	5 6	0 8	1 6	8	0	0 3	8	0 3	2	0	0	3	2	2	2	2	2	2	2	
11	2 3	9 9 6 5 5	5 1	3 1	3 1	0 3	0 6	1 5	8	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	2	
11	0 7	6 2	3 1	3 1	3 0	0 6	1 0	0 8	8	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	2	
11	0 8	7 0 6	3 5	3 4	3 3	2 2	2 2	1 8	0 8	8	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	1 1	9 7 0 3	3 5	3 5	3 4	2 2	2 2	0 9	0 8	8	0	0 3	8	6	8	0	0	2	2	2	2	2	2	2	
11	1 4	9 7 1 1	3 6	3 5	3 5	2 5	2 5	1 5	0 8	8	0	0 3	8	6	8	0	0	2	2	2	2	2	2	2	
11	1 7	9 7 3 5	3 5	3 4	3 1	2 5	2 5	2 8	2 4	8	0	0 3	8	6	8	0	0	2	2	2	2	2	2	2	
11	2 0	9 7 5 6	3 5	3 2	2 9	2 3	2 6	5 6	8	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	2	
11	2 3	9 7 7 4	3 4	3 2	2 9	2 4	2 0	8 0	7	0	0 2	8	7	8	0	0	3	2	2	2	2	2	2	2	
11	0 5	9 8 6 1 4	3 4	3 5	3 2	2 9	2 7	1 8	0 8	8	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	0 8	9 8 2 5	3 5	3 1	2 9	2 7	1 2	0 8	8	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	2	
11	1 1	9 8 5 0	3 5	3 5	3 2	2 9	2 9	0 6	8	0	0 3	8	6	8	0	0	3	2	2	2	2	2	2	2	
11	1 4	9 8 2 9	3 7	3 4	3 0	2 9	2 9	1 1	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	1 7	9 8 2 0	3 6	3 4	3 1	3 2	0 6	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	2	
11	2 0	9 8 0 2	3 7	3 3	2 8	3 0	0 6	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	2	
11	2 3	9 7 9 1	3 5	3 3	3 1	3 0	2 9	0 7	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	0 5	9 7 7 5	3 4	3 3	3 1	3 0	2 9	0 6	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	0 8	9 7 5 6	3 5	3 2	2 9	2 9	2 7	1 0	1 6	8	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	1 1	9 7 5 6	3 5	3 2	2 9	2 9	2 7	1 0	1 6	8	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	1 4	9 7 7 5	3 5	3 2	2 9	2 3	1 5	3 2	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	1 7	9 8 2 2	3 5	3 4	3 2	2 3	1 8	4 0	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	2 0	9 8 5 1	3 4	3 3	3 0	2 3	2 3	2 4	4 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	2 3	9 8 7 9	3 5	3 2	3 0	2 3	2 3	2 4	4 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	0 5	9 9 1 0	3 1	3 0	2 8	2 3	1 5	3 2	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	0 8	9 9 2 8	3 2	3 0	2 7	2 3	1 0	3 2	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	1 1	9 9 5 2	3 3	3 0	2 6	2 2	1 2	8 1	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	1 4	9 9 6 7	3 3	3 1	2 9	2 3	1 6	8 1	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	1 7	9 9 7 2	3 2	3 1	2 9	2 3	1 6	8 1	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	2 0	9 9 7 0	3 1	3 0	2 9	2 7	2 1	8 0	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	2 3	9 9 6 5	3 1	3 0	2 8	1 9	1 3	8 0	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	0 2	9 9 6 1	3 1	3 0	2 7	1 9	1 2	8 1	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	0 5	9 9 7 5	3 2	3 2	2 8	1 9	1 3	8 0	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	0 8	9 9 7 9	3 3	3 0	2 5	1 9	1 1	8 0	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	1 1	9 9 7 3	3 4	3 1	2 8	2 6	0 2	8 0	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	1 4	9 9 5 8	3 5	3 3	3 0	2 4	0 4	8 0	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	1 7	9 9 2 4	3 5	3 3	3 1	0 2	1 0	4 8	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	2 0	9 9 4 8	3 5	3 3	3 1	0 6	2 0	1 6	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	2 3	9 9 0 5	3 5	3 2	3 1	0 5	0 4	1 6	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	0 2	9 7 9 6	3 6	3 5	3 4	2 9	1 0	2 4	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	0 5	9 7 9 5	3 6	3 4	3 1	2 8	1 8	3 2	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	0 8	9 7 9 2	3 6	3 4	3 1	2 9	2 5	4 0	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	1 1	9 7 8 6	3 7	3 5	3 2	2 9	1 8	4 0	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	1 4	9 7 8 2	3 7	3 5	3 2	2 9	1 5	4 0	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	1 7	9 7 7 2	3 7	3 4	3 0	2 9	1 0	4 0	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	2 0	9 7 6 6	3 4	3 2	2 9	2 9	1 0	4 0	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	2 3	9 7 5 8	3 3	3 2	3 2	3 2	1 2	4 0	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	0 2	9 7 4 9	3 5	3 2	3 2	0 4	1 6	4 8	8 0	7	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	0 5	9 7 4 5	3 2	3 1	3 0	0 9	0 6	6 4	7	1	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	0 8	9 7 4 8	3 4	3 3	3 2	0 7	0 9	8 0	6 5	1	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	1 1	9 7 6 4	3 8	3 7	3 6	0 7	1 2	8 0	6 5	1	0	0 3	8	7	8	0	0	3	2	2	2	2	2	2	
11	1 4	9 7 9 4	3 9	3 6	3 2	0 7	1 8	3 2	0 7	8 0	1	0	0 3	8	7	8	0	0	3	2	2	2	2	2	
11	1 7	9 8 3 0	3 9	3 6	3 2	0 0	0 0	8 1	2	0 2	1	2	8	5	0	0	0	0	0	0	0	0	0	0	
11	2 0	9 8 7 2	3 5	3 4	3 1	2 1	2 3	8 1	1	0	0 1	2	2	8	4	0	0	0	0	0	0	0	0	0	
11	2 3	9 9 1 5	3 3	3 3	3 2	2 1	2 3	8 1	1	0	0 1	2	1	2	8	4	0	0	0	0	0	0	0	0	
11	0 2	9 9 4 1	3 2	3 2	3 0	2 1	1 9	8 1	1	0	0 1														

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF HEARD ISLAND
NOVEMBER 1951**

DAY	HOUR	STATION LEVEL PRESSURE.	WIND				DEW POINT	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD AMOUNT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE										
			DIRECTION	SPEED	DRY BULB	WET BULB							DIRECTION	SPEED	vv	Oktas	ww	w	Oktas	C _L	h	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.			
N 1	0 2	9 9 9 5 0	3 3	3 2	3 2	2 7	1 8	0 8	8	5 1	5	8	7	3	3	1	6	6	7	2	2	6	6	7	5	5	5	0 0 0				
N 1	0 5	9 9 9 5 5	3 3	3 3	3 3	2 5	1 5	0 8	8	1 0	5	5	7	7	2	1	7	6	6	7	2	2	6	6	7	5	5	5	0 0 0			
N 1	0 8	9 9 9 5 9	3 3	3 4	3 1	2 7	1 3	3 2	8	1 5	2	7	6	6	7	2	1	7	6	6	7	2	2	6	6	7	5	5	5	0 0 0		
N 1	1 1	9 9 9 5 6	3 4	3 5	3 2	1 9	0 6	2 4	8	7 1	7	8	7	3	3	2	1	7	6	6	7	2	2	6	6	7	5	5	5	0 0 0		
N 1	1 4	9 9 9 5 6	3 6	3 5	3 4	3 0	2 0	2 4	8	6 1	7	8	0	3	3	2	1	7	6	6	7	2	2	6	6	7	5	5	5	0 0 0		
N 1	1 7	9 9 9 5 6	3 8	3 7	3 5	3 0	1 8	2 4	8	6 1	6	8	0	3	3	2	1	7	6	6	7	2	2	6	6	7	5	5	5	0 0 0		
N 2	0 2	9 9 9 5 6	3 7	3 7	3 6	0 6	0 2	2 4	8	5 3	6	8	7	2	2	1	7	6	6	7	2	2	6	6	7	5	5	5	0 0 0			
N 2	0 5	9 9 9 5 6	3 8	3 7	3 6	2 9	1 2	2 4	8	5 8	6	8	7	2	2	1	7	6	6	7	2	2	6	6	7	5	5	5	0 0 0			
N 2	0 8	9 9 9 5 6	3 7	3 7	3 6	3 1	1 0	0 8	8	5 1	5	8	7	2	2	1	7	6	6	7	2	2	6	6	7	5	5	5	0 0 0			
N 2	1 1	9 9 9 5 7	3 7	3 7	3 6	3 1	1 0	0 8	8	5 1	5	8	7	2	2	1	7	6	6	7	2	2	6	6	7	5	5	5	0 0 0			
N 2	1 4	9 9 9 5 7	3 7	3 7	3 6	3 1	1 0	1 6	8	2 0	5	5	6	6	6	6	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	1 7	9 9 9 5 7	3 7	3 8	3 7	2 9	0 4	4 0	8	0 0	0 2	5	5	6	6	6	6	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0		
N 2	2 0	9 9 9 5 7	3 6	3 6	3 5	2 9	0 2	0 4	8	5 5	5	8	0	2	2	2	2	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0		
N 2	2 3	9 9 9 5 7	3 5	3 5	3 4	2 9	0 0	0 4	8	5 1	5	8	0	2	2	2	2	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0		
N 2	2 6	9 9 9 5 7	3 5	3 5	3 4	2 9	0 0	0 4	8	5 1	5	8	0	2	2	2	2	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0		
N 2	2 9	9 9 9 5 7	3 5	3 5	3 4	2 9	0 0	0 4	8	5 1	5	8	0	2	2	2	2	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0		
N 2	0 2	9 9 9 5 8	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	0 5	9 9 9 5 8	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	0 8	9 9 9 5 8	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	1 1	9 9 9 5 8	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	1 4	9 9 9 5 8	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	1 7	9 9 9 5 8	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	2 0	9 9 9 5 8	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	2 3	9 9 9 5 8	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	2 6	9 9 9 5 8	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	2 9	9 9 9 5 8	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	0 2	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	0 5	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	0 8	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	1 1	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	1 4	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	1 7	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	2 0	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	2 3	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	2 6	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	2 9	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	0 2	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	0 5	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	0 8	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	1 1	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	1 4	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	1 7	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	2 0	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	2 3	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4	3	3	2	2	2	2	2	2	6	6	7	5	5	5	0 0 0			
N 2	2 6	9 9 9 5 9	3 6	3 4	3 1	2 9	1 2	0 8	8	0 3	2	4	8	4</																		

RESULTS OF SURFACE OBSERVATIONS AT														HEARD ISLAND DECEMBER 1951													
DAY	HOUR	STATION LEVEL PRESSURE			WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEROMETER	MAXIMUM GUST		SUNSHINE								
		DRY BULB	WET BULB	DEW POINT	DIRECTION	SPEED				Kts.	VV	Oktas	WW	W	Oktas	C _L	C _M	C _H	C _L	C _M	C _H	°F	°F	Points	Miles	°x10	Kts.
LST.	Mbs.	"F	"F	"F	"F	"x10	Kts.																				
01	02	97.75	37	35	53	28	18	16	8	61	6	0	7	80	8	5	8	4	5	3	3	3	3	3	3	3	013
01	05	97.85	35	34	51	29	04	40	7	80	8	5	8	4	4	5	3	3	3	3	3	3	3	3	3	013	
01	06	97.85	37	35	53	32	10	40	4	25	8	0	8	6	2	6	6	6	5	6	3	3	3	3	3	013	
01	11	97.86	38	37	56	32	10	40	8	16	8	6	0	8	6	6	6	6	6	6	6	6	6	6	6	013	
01	14	97.85	38	37	56	52	05	40	8	60	8	6	6	6	6	6	6	6	6	6	6	6	6	6	013		
01	17	97.86	57	35	35	31	03	24	8	60	8	6	6	6	6	6	6	6	6	6	6	6	6	6	013		
01	20	98.012	35	34	50	29	16	32	8	02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	013		
01	23	98.031	35	33	50	28	17	52	8	87	8	5	8	4	4	5	3	3	3	3	3	3	3	3	013		
02	02	98.446	35	34	54	28	14	52	8	85	8	5	8	4	4	5	3	3	3	3	3	3	3	3	013		
02	05	98.67	56	34	52	29	18	52	8	51	8	5	8	4	4	5	3	3	3	3	3	3	3	3	013		
02	08	98.78	36	34	52	28	15	32	8	20	8	2	8	2	2	2	2	2	2	2	2	2	2	2	013		
02	11	98.91	36	35	52	28	10	40	7	87	9	7	8	4	4	5	3	3	3	3	3	3	3	3	013		
02	14	98.95	58	37	55	32	03	24	8	20	8	0	8	8	8	8	8	8	8	8	8	8	8	8	013		
02	17	99.01	56	34	54	26	12	40	8	80	9	9	8	8	8	8	8	8	8	8	8	8	8	8	013		
02	20	99.31	56	34	54	22	18	40	8	50	5	5	5	5	5	5	5	5	5	5	5	5	5	013			
02	23	99.72	56	34	54	22	20	16	8	50	5	5	5	5	5	5	5	5	5	5	5	5	5	013			
03	02	0001	56	34	54	23	12	40	8	20	5	5	5	5	5	5	5	5	5	5	5	5	5	013			
03	05	0024	55	34	53	23	16	52	8	16	5	5	5	5	5	5	5	5	5	5	5	5	5	013			
03	08	0032	56	34	53	27	08	32	8	87	9	7	8	4	4	5	3	3	3	3	3	3	3	013			
03	11	99.75	34	34	50	08	20	16	8	70	7	7	7	7	7	7	7	7	7	7	7	7	7	013			
03	14	99.40	39	38	57	30	30	12	32	5	15	7	5	8	4	4	5	3	3	3	3	3	3	3	013		
03	17	99.63	38	36	53	30	24	32	7	03	1	1	1	1	1	1	1	1	1	1	1	1	1	013			
04	02	99.71	38	35	56	28	24	32	7	03	1	1	1	1	1	1	1	1	1	1	1	1	1	013			
04	05	99.70	38	37	54	30	12	52	8	03	1	1	1	1	1	1	1	1	1	1	1	1	1	013			
04	08	99.64	38	37	55	30	10	16	8	61	6	6	6	6	6	6	6	6	6	6	6	6	6	013			
04	11	99.58	38	37	55	31	06	32	8	50	6	6	6	6	6	6	6	6	6	6	6	6	6	013			
04	14	99.47	39	38	57	30	12	32	5	15	7	5	8	4	4	5	3	3	3	3	3	3	3	013			
04	17	99.21	40	34	59	37	05	02	64	7	01	2	2	2	2	2	2	2	2	2	2	2	2	013			
04	20	98.89	38	37	56	36	04	64	8	02	2	2	2	2	2	2	2	2	2	2	2	2	2	013			
04	23	98.78	36	35	56	00	00	03	8	02	2	2	2	2	2	2	2	2	2	2	2	2	2	013			
05	02	98.67	36	35	56	00	00	01	1	45	4	4	4	4	4	4	4	4	4	4	4	4	4	013			
05	05	98.67	34	34	54	00	00	00	05	8	68	6	6	6	6	6	6	6	6	6	6	6	6	013			
05	08	98.63	33	33	55	00	00	00	32	8	22	7	8	0	0	0	0	0	0	0	0	0	0	0	013		
05	11	98.71	57	35	56	55	04	52	8	20	7	7	7	7	7	7	7	7	7	7	7	7	7	013			
05	14	98.92	38	37	56	26	07	52	7	80	7	7	7	7	7	7	7	7	7	7	7	7	7	013			
05	17	99.16	38	37	56	26	04	24	8	50	5	5	5	5	5	5	5	5	5	5	5	5	5	013			
05	20	99.41	36	35	55	21	10	16	8	51	5	5	5	5	5	5	5	5	5	5	5	5	5	013			
05	23	99.58	35	35	54	20	07	24	8	50	5	5	5	5	5	5	5	5	5	5	5	5	5	013			
06	02	99.64	35	34	54	22	10	24	8	50	5	5	5	5	5	5	5	5	5	5	5	5	5	013			
06	05	99.79	36	34	52	23	16	48	1	05	0	0	0	0	0	0	0	0	0	0	0	0	0	013			
06	08	99.96	37	35	55	31	23	10	48	3	05	1	1	1	1	1	1	1	1	1	1	1	1	013			
06	11	0013	38	36	53	24	10	64	5	03	1	1	1	1	1	1	1	1	1	1	1	1	1	013			
06	14	0044	38	34	52	27	12	64	7	02	1	1	1	1	1	1	1	1	1	1	1	1	1	013			
06	17	0057	38	35	51	23	12	64	4	01	1	1	1	1	1	1	1	1	1	1	1	1	1	013			
06	20	0077	37	35	51	23	05	64	5	02	1	1	1	1	1	1	1	1	1	1	1	1	1	013			
06	23	0092	35	35	51	27	04	40	8	50	5	5	5	5	5	5	5	5	5	5	5	5	5	013			
07	02	0092	35	35	53	26	02	40	6	03	1	1	1	1	1	1	1	1	1	1	1	1	1	013			
07	05	0102	35	34	51	00	00	81	1	02	1	1	1	1	1	1	1	1	1	1	1	1	1	013			
07	08	0109	36	34	51	19	02	81	7	02	3	8	5	5	5	5	5	5	5	5	5	5	5	013			
07	11	0099	39	36	52	22	10	81	6	02	2	1	1	1	1	1	1	1	1	1	1	1	1	013			
07	14	0097	40	36	51	31	22	10	81	2	01	2	2	2	2	2	2	2	2	2	2	2	2	013			
07	17	0101	39	35	50	20	12	81	3	02	1	3	8	5	5	5	5	5	5	5	5	5	5	013			
07	20	0098	36	34	51	20	12	81	1	02	1	1	8	5	5	5	5	5	5	5	5	5	5	013			
07	23	0090	34	34	52	29	00	00	81	1	01	1	1	5	5	5	5	5	5	5	5	5	5	013			
08	02	0081	32	31	51	00	00	81	5	03	2	0	2	2	2	2	2	2	2	2	2	2	2	013			
08	05	0062	34	32	50	01	04	48	8	03	1	1	8	5	5	5	5	5	5	5	5	5	5	013			
08	08	0032	32	31																							

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF DECEMBER 1951																										
DAY	HOUR	STATION LEVEL PRESSURE		DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER		MAXIMUM GUST						
		Mbs.	"F				"x10	Kts.				Oktas	WW	W	Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	Points	Miles	"x10	Kts.
11	0 2	9 9 2 2	5 6	3 4	3 1	2 9	1 6	5 6	6	1 5	2	6	B	4	1 5											
11	0 5	9 9 0 5	5 6	3 5	3 2	3 1	0 3	5 6	7	0 3	2	7	5	5	5											
11	0 8	9 8 7 3	3 4	3 3	3 3	0 4	0 2	1 6	8	7 1	6	8	6	6	5											
11	1 1	9 8 3 5	3 5	3 4	3 3	0 5	0 2	1 6	8	7 1	7	7	6	6	3											
11	1 4	9 8 3 6	3 5	3 5	3 5	2 0	1 6	1 6	8	6 1	7	7	7	7	3											
11	1 7	9 8 4 6	3 5	3 5	3 4	2 1	1 0	4 0	7	0 1	8	7	8	4	4											
11	2 0	9 8 4 8	3 5	3 5	3 0	2 9	0 8	4 0	5	8 7	1	5	8	4	4											
11	2 3	9 8 5 2	3 4	3 5	2 9	2 9	0 8	4 0	5	8 7	1	5	8	4	4											
12	0 0	9 8 4 1	3 5	3 5	2 9	3 1	2 9	1 2	2 4	5	8 5	2	2	2	2											
12	0 3	9 8 3 5	3 5	3 5	3 0	2 9	1 6	4 0	7	0 2	2	2	2	2	2											
12	0 6	9 8 3 2	3 4	3 5	3 2	2 8	1 5	1 6	8	8 5	2	2	2	2	2											
12	1 1	9 8 3 4	3 6	3 4	3 4	2 8	1 5	4 0	8	8 7	2	2	2	2	2											
12	1 4	9 8 4 1	3 8	3 5	3 2	2 8	1 5	4 0	8	8 7	2	2	2	2	2											
12	1 7	9 8 4 9	3 5	3 5	3 0	2 7	2 0	4 0	8	8 0 2	2	2	2	2	2											
12	2 0	9 8 7 5	3 5	3 5	3 0	2 7	1 6	4 0	7	0 2	2	2	2	2	2											
12	2 3	9 8 8 4	3 3	3 2	3 1	2 7	1 5	3 2	7	8 7	2	2	2	2	2											
13	0 2	9 8 9 0	3 3	3 2	3 2	2 7	1 8	4 0	6	8 7	2	2	2	2	2											
13	0 5	9 9 0 1	3 2	3 1	2 9	2 7	1 5	8 0	6	1 5	2	2	2	2	2											
13	0 8	9 9 1 4	3 5	3 4	3 3	2 5	1 0	8 0	6	1 5	2	2	2	2	2											
13	1 1	9 9 2 9	3 4	3 2	2 9	2 3	2 3	2 4	5 4	7	0 5	2	2	2	2											
13	1 4	9 9 4 2	3 6	3 4	3 4	2 6	1 8	8 1	6	0 2	2	2	2	2	2											
13	1 7	9 9 4 7	3 6	3 2	2 7	2 4	2 3	8 1	4	0 1	2	2	2	2	2											
13	2 0	9 9 7 2	3 4	3 2	2 9	2 4	2 2	8 1	5	1 5	2	2	2	2	2											
13	2 3	9 9 8 9	3 4	3 2	2 8	2 3	2 6	8 1	5	2 6	2	2	2	2	2											
14	0 2	9 0 1 0	3 5	3 2	2 9	2 5	2 7	9 1	5	0 3	2	2	2	2	2											
14	0 5	9 0 3 9	3 4	3 1	2 7	2 2	1 9	8 1	2	0 1	1	1	2	2	2											
14	0 8	9 0 5 6	3 5	3 3	3 0	2 7	1 0	6 4	7	0 3	2	2	2	2	2											
14	1 1	9 0 6 4	3 9	3 5	3 1	2 5	0 1	8 1	3	0 1	1	1	2	2	2											
14	1 4	9 0 7 2	3 9	3 5	3 0	2 5	0 2	8 1	7	0 2	2	2	2	2	2											
14	1 7	9 0 5 6	3 5	3 4	3 3	0 8	1 0	1 6	8	7 7	7	7	7	7	7											
14	2 0	9 0 3 2	3 4	3 4	3 3	0 8	1 0	1 6	8	7 7	7	7	7	7	7											
14	2 3	9 0 2 8	3 7	5 7	3 7	0 5	0 4	2 4	8	0 5	7	8	7	7	7											
15	0 2	9 0 1 4	3 8	3 8	3 7	0 5	0 2	2 4	8	5 0	2	2	2	2	2											
15	0 5	9 9 9 5	3 9	3 9	3 9	0 6	0 5	1 6	8	5 1	2	2	2	2	2											
15	0 8	9 9 8 2	3 9	3 9	3 8	0 5	0 5	3 2	8	5 1	2	2	2	2	2											
15	1 1	9 9 5 5	3 9	3 9	3 9	0 7	1 5	0 8	8	0 2	2	2	2	2	2											
15	1 4	9 9 1 4	4 0	3 9	3 8	0 7	1 8	3 2	8	0 2	2	2	2	2	2											
15	1 7	9 9 8 7	3 9	3 9	3 8	0 7	2 0	0 8	8	6 3	2	2	2	2	2											
15	2 0	9 9 8 3	4 0	4 0	4 0	0 7	2 5	0 8	8	6 3	2	2	2	2	2											
15	2 3	9 9 8 3	3 9	3 9	3 9	0 0	0 0	1 6	8	2 1	2	2	2	2	2											
16	0 2	9 9 8 4	3 7	3 7	3 5	2 0	2 0	4 0	6	0 2	2	2	2	2	2											
16	0 5	9 9 8 5	3 7	3 5	3 5	0 0	0 0	0 0	6	0 2	2	2	2	2	2											
16	0 8	9 9 8 4	3 7	3 5	3 8	0 6	0 7	8 1	7	0 2	2	2	2	2	2											
16	1 1	9 9 8 2	3 9	3 9	3 9	0 6	1 3	8 0	7	2 1	2	2	2	2	2											
16	1 4	9 7 6 3	3 4	3 5	3 8	0 5	2 3	1 0	7	5 0	2	2	2	2	2											
16	1 7	9 5 8 7	4 1	3 5	2 9	0 7	3 7	3 2	8	6 0	2	2	2	2	2											
16	2 0	9 5 2 1	3 9	3 9	3 9	0 7	2 6	0 8	8	2 1	2	2	2	2	2											
16	2 3	9 5 0 6	5 9	3 5	3 7	0 6	2 0	0 8	8	5 8	2	2	2	2	2											
17	0 2	9 5 8 6	3 8	3 7	3 4	0 2	2 3	2 3	4 0	8 0 5	2	2	2	2	2											
17	0 5	9 5 7 7	3 8	3 5	3 5	0 2	2 1	4 0	8 0 6	2	2	2	2	2												
17	0 8	9 5 7 2	3 6	3 5	3 4	0 1	2 5	3 2	8 0 7	2	2	2	2	2												
17	1 1	9 5 5 6	3 6	3 5	3 4	3 6	2 3	2 5	8 0 8	2	2	2	2	2												
17	1 4	9 5 4 9	3 6	3 5	3 5	3 4	2 5	2 5	8 1	2	2	2	2	2												
17	1 7	9 5 4 8	3 6	3 5	3 5	3 2	2 0	3 2	8 1	2	2	2	2	2												
17	2 0	9 5 5 8	3 6	3 5	3 5	3 1	1 2	1 6	8	5 1	2	2	2	2	2											
17	2 3	9 5 5 5	3 6	3 5	3 5	3 1	1 2	1 6	8	5 1	2	2	2	2	2											
18	0 2	9 5 5 3	3 4	3 4	3 3	2 5	0 5	1 4	4 0	8 1	2	2	2	2	2											
18	0 5	9 5 5 2	3 6	3 5	3 5	0 0	0 0	0 0	4 0	8	6 1	2	2	2	2	2										
18	0 8	9 5 5 0	3 6	3 5	3 4	2 3	1 5	3 2	8 0 2	2	2	2	2	2												
18	1 1	9 5 4 6	3 6	3 5	3 5	2 3	1 5	3 2	8 0 3	2	2	2	2	2												

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF DECEMBER 1951**

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF DECEMBER 1951**

DAY	HOUR	STATION LEVEL PRESSURE	WIND		DEW POINT	DIRECTION	SPEED	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE					
			DRY BULB	WET BULB							PAST WEATHER	AMOUNT	TYPE	HEIGHT	LOW CLOUD	MIDDLE CLOUD	HIGH CLOUD	LOW	MIDDLE	HIGH					
LST.	Mbs.	"F	"F	"F	"x10	Kts.	VV	Oktas	WW	W	Oldest	C _L	h	C _M	C _H	C _L	C _M	C _H	"F	Points	Miles	"x10	Kts.	Hours	
5 1	0 2	9 9 0 3	3 4	3 4	0 7	1 5	0 8	8	6 1	6	6 1	7	3	5	4	4	4	4	4	4	4	4	4	4	4
5 1	0 5	9 9 0 1	3 6	3 5	5 4	2 7	2 0	3 2	8	1 0	6	6 0	8	8	8	8	8	8	8	8	8	8	8	8	8
5 1	0 8	9 9 2 2	3 7	3 6	5 4	2 6	1 4	2 4	8	2 5	8	2 5	7	7	7	7	7	7	7	7	7	7	7	7	7
5 1	1 1	9 9 3 5	3 8	3 7	5 4	2 6	1 8	4 8	7	0 5	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5 1	1 4	9 9 5 2	3 8	3 7	5 5	2 3	2 3	6 4	8	0 5	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5 1	1 7	9 9 8 2	3 8	3 7	5 4	2 3	2 3	6 4	6	0 5	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5 1	2 0	0 0 1 2	3 7	3 6	5 4	2 2	1 9	8 0	5	0 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5 1	2 3	0 0 3 0	3 7	3 6	5 5	2 3	1 4	8 0	6	0 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF JANUARY 1951																											
DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB		WET BULB		DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	LOW CLOUD		CLOUD DIRECTION		MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE		
			LST.	Mbs.	*F	*F		*F	*F		Oktas	ww	W	Oktas	C _L	h	C _M	C _H	C _M	C _H	*F	*F	Points	Miles	Direction	Speed	
01	01	01 15	3 9	3 7	5 3	2 4	1 2	8 1	7	0 2	2	7	5	4	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8		
01	04	01 39	5 9	3 7	5 4	2 5	0 9	8 1	7	0 2	2	7	5	4	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8		
01	07	01 50	4 1	4 0	3 9	2 9	0 4	8 2	1	0 1	0	0	0	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8		
01	10	01 51	4 3	4 2	4 1	3 0	0 9	8 2	1	0 2	0	1	1	5	4	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
01	13	01 58	4 5	4 3	4 0	1 5	8 1	6	0 5	1	1	1	6	3	3	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
01	16	01 22	4 3	4 3	4 0	3 1	1 7	5 6	8	0 2	1	2	8	6	2	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
01	19	01 13	4 5	4 1	4 1	2 9	1 6	8 2	6	0 2	1	1	1	6	3	3	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8
01	22	01 03	4 5	4 2	4 1	3 0	2 1	6 4	8	0 3	2	4	5	5	2	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
02	01	00 81	4 3	4 2	4 1	3 0	2 3	0 8	8	5 1	5	8	6	0	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
02	04	00 61	4 5	4 2	4 1	3 0	2 1	0 0	9	4 7	4	9	9	6 1	6	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
02	07	00 55	4 3	4 5	4 2	3 0	2 1	0 5	9	9	6 1	6	0	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8		
02	10	00 32	4 4	4 3	4 2	3 1	2 1	0 8	8	5 1	5	8	6	0	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
02	13	00 23	4 4	4 4	4 3	3 1	2 1	0 3	9	4 5	5	9	9	0	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
02	16	00 19	4 5	4 3	4 2	3 0	1 5	0 1	9	4 7	4	9	9	0	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
02	19	00 13	4 3	4 3	4 2	3 0	1 6	2 4	7	0 2	4	1	6	3	7	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
02	22	00 08	4 5	4 3	4 2	3 0	2 3	0 8	8	2 8	4	8	6	2	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
03	01	00 97	4 5	4 3	4 3	3 0	2 6	0 8	8	4 0	4	8	6	2	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
03	04	00 96	4 4	4 5	4 3	3 0	2 6	0 6	8	4 0	6	8	6	2	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
03	07	00 96	4 3	4 3	4 2	3 0	2 7	0 3	8	5 3	5	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
03	10	00 96	4 4	4 3	4 3	3 1	2 5	1 6	8	2 0	5	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
03	13	00 98	4 5	4 3	4 3	3 1	2 5	0 2	9	5 1	5	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
03	16	00 98	4 5	4 3	4 3	3 1	2 5	0 2	9	5 1	5	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
03	19	00 98	4 4	4 3	4 2	3 1	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
04	01	00 97	4 4	4 3	4 2	3 1	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
04	04	00 98	4 4	4 3	4 2	3 1	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
04	07	00 98	4 4	4 3	4 2	3 1	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
04	10	00 98	4 4	4 3	4 2	3 1	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
04	13	00 98	4 4	4 3	4 2	3 1	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
04	16	00 98	4 4	4 3	4 2	3 1	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
04	19	00 98	4 4	4 3	4 2	3 1	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
05	01	00 98	4 4	4 3	4 2	3 1	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
05	04	00 98	4 4	4 3	4 2	3 1	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
05	07	00 98	4 4	4 3	4 2	3 1	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
05	10	00 50	4 5	4 3	4 2	3 1	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
05	13	00 84	4 5	4 3	4 2	3 1	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
05	16	00 82	4 7	4 5	4 3	3 0	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
05	19	00 82	4 4	4 3	4 2	3 0	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
06	01	00 90	4 4	4 3	4 2	3 0	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
06	04	00 16	4 4	4 3	4 2	3 0	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
06	07	00 06	4 5	4 3	4 2	3 0	2 6	0 8	8	6 1	6	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
06	10	00 86	4 6	4 5	4 4	3 0	1 6	4 8	3	0 5	1	2	5	4	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
06	13	00 98	4 6	4 5	4 4	3 1	1 5	R 1	4	0 5	1	2	5	4	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
06	16	00 08	4 5	4 4	4 4	2 7	0 6	1 6	8	2 8	4	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
06	19	00 09	4 5	4 4	4 4	2 7	0 6	1 6	8	2 0	4	8	6	1	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
07	01	00 90	4 7	4 7	3 2	0 4	0 0	9	4 7	4	9	9	0	0	0	0	0	5 6	6 9	4 6	3 7	0 0 0 1	5 3 5	2 4	3 0	0 7 8	
07	04	00 75	4 5	4 3	4 2	3 1	1 0	0 3	9	4 7	4	9	9	0	0	0	0	5 6	6 9	4 6	3 7	0					

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF MACQUARIE ISLAND
JANUARY 1951**

DAY	HOUR	STATION LEVEL PRESSURE	WIND		LOW CLOUD AMOUNT	CLOUD TYPE	CLOUD DIRECTION	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST											
			DRY BULB	WET BULB								DIRECTION	SPEED										
LST.	Mbs.	"F	"F	"F	*x10	Kts.	VV	Oktas	wv	W	Oktas	C _L	h	C _M	C _H	"F	"F	Points	Miles	*x10	Kts.	Hours	
11	01	0174	41	39	36	25	22	R2	1	02	1	1	8	5	0	6	5	5	0	6	5	5	
11	04	0185	41	39	36	27	14	R2	6	03	1	3	5	5	5	6	6	6	6	6	6	6	
11	07	0151	45	41	58	27	12	R2	7	03	2	3	5	5	5	6	6	6	6	6	6	6	
11	10	0196	45	42	41	29	10	R0	7	05	2	6	8	5	5	6	6	6	6	6	6	6	
11	13	0186	45	44	43	30	14	R0	7	05	2	1	8	5	5	6	6	6	6	6	6	6	
11	16	0176	45	44	43	30	18	R0	7	05	2	5	8	5	5	6	6	6	6	6	6	6	
11	19	0165	45	43	43	31	19	R0	7	03	2	5	5	5	5	6	6	6	6	6	6	6	
11	22	0154	44	43	42	31	20	R0	7	03	2	4	5	7	7	7	7	7	7	7	7	7	
12	01	0129	44	44	43	31	23	64	8	03	2	2	6	3	3	7	7	7	7	7	7	7	
12	04	0113	45	44	44	31	25	40	8	02	2	2	8	6	3	7	7	7	7	7	7	7	
12	07	007	45	45	44	31	23	40	8	02	2	2	8	6	3	7	7	7	7	7	7	7	
12	10	0098	45	45	45	31	25	16	8	02	2	2	8	6	1	7	7	7	7	7	7	7	
12	13	0069	46	46	45	31	23	32	8	02	2	2	8	6	2	7	7	7	7	7	7	7	
12	16	0038	46	46	45	32	25	32	8	50	2	2	8	6	3	7	7	7	7	7	7	7	
12	19	0008	46	45	45	32	26	24	8	61	6	8	0	3	2	7	7	7	7	7	7	7	
12	22	9991	45	45	45	31	26	24	8	61	6	8	0	3	2	7	7	7	7	7	7	7	
13	01	9970	44	44	43	31	16	04	8	56	6	8	7	1	7	7	7	7	7	7	7	7	
13	04	9986	42	42	42	27	09	16	8	51	6	6	6	3	4	2	6	9	9	9	9	9	
13	07	0009	43	42	41	25	15	64	7	02	2	3	5	4	2	2	6	9	9	9	9	9	
13	10	0024	45	45	44	28	13	R1	6	05	2	1	8	4	0	0	5	6	6	6	6	6	
13	13	0029	47	45	45	28	12	R2	3	01	1	2	1	4	0	0	0	6	6	6	6	6	
13	16	0042	46	45	44	28	12	R2	1	02	1	1	1	1	0	0	0	6	6	6	6	6	
13	19	0057	44	43	42	28	12	R2	0	01	1	1	1	1	0	0	0	6	6	6	6	6	
13	22	0069	42	41	40	28	10	R2	0	01	1	1	1	1	0	0	0	6	6	6	6	6	
14	01	0065	42	42	41	51	13	R2	4	03	0	4	5	5	0	0	6	6	6	6	6	6	
14	04	0049	43	42	42	30	20	R1	6	02	2	1	6	8	6	6	6	7	7	7	7	7	
14	07	0029	43	43	43	31	29	R1	8	51	6	6	8	6	7	7	7	7	7	7	7	7	
14	10	0018	44	44	44	31	29	R2	8	60	6	6	8	6	7	7	7	7	7	7	7	7	
14	13	0003	44	44	44	31	26	R2	2	02	1	1	1	1	0	0	6	6	6	6	6	6	
14	16	9985	45	45	44	29	22	R2	1	02	1	1	1	1	0	0	6	6	6	6	6	6	
14	19	9964	44	44	44	31	26	R3	9	51	5	6	6	6	6	6	6	6	6	6	6	6	
14	22	9965	44	44	44	32	20	R2	8	50	5	6	6	6	6	6	6	6	6	6	6	6	
15	01	9991	41	40	38	25	15	R0	7	80	5	8	8	8	3	0	6	6	6	6	6	6	
15	04	0009	40	39	58	25	17	R2	5	26	2	1	5	5	5	5	6	6	6	6	6	6	
15	07	0023	41	40	39	27	14	R2	2	15	2	1	5	5	5	5	6	6	6	6	6	6	
15	10	0035	39	39	58	25	17	R1	8	26	2	1	5	5	5	5	6	6	6	6	6	6	
15	13	0042	43	41	37	25	19	R1	7	15	2	1	5	5	5	5	6	6	6	6	6	6	
15	16	0052	41	40	39	27	13	R1	8	15	2	1	5	5	5	5	6	6	6	6	6	6	
15	19	0059	41	40	39	27	09	R1	7	15	2	1	5	5	5	5	6	6	6	6	6	6	
15	22	0058	40	39	58	28	14	R1	8	02	2	1	5	5	5	5	6	6	6	6	6	6	
16	01	0028	41	40	40	28	23	R0	8	80	8	8	8	8	8	8	8	8	8	8	8	8	
16	04	0006	41	41	41	40	28	R2	5	26	8	8	8	8	8	8	8	8	8	8	8	8	
16	07	9991	43	42	39	27	14	R2	8	81	8	8	8	8	8	8	8	8	8	8	8	8	
16	10	9974	43	43	43	28	25	R2	8	81	8	8	8	8	8	8	8	8	8	8	8	8	
16	13	9959	43	43	43	27	22	R0	8	81	8	8	8	8	8	8	8	8	8	8	8	8	
16	16	9955	43	43	43	27	22	R0	16	85	8	50	5	5	5	5	6	6	6	6	6	6	
16	19	9952	43	43	43	27	23	R0	8	80	8	50	5	5	5	5	6	6	6	6	6	6	
16	22	9959	43	43	43	27	23	R0	16	85	8	51	5	5	5	5	6	6	6	6	6	6	
17	01	9944	43	43	43	28	22	R2	8	50	8	8	8	8	8	8	8	8	8	8	8	8	
17	04	9924	43	43	43	28	22	R2	12	85	8	51	5	5	5	5	6	6	6	6	6	6	
17	07	9924	43	42	42	25	26	R1	7	20	8	51	5	5	5	5	6	6	6	6	6	6	
17	10	9959	43	42	42	25	32	R0	7	03	8	51	5	5	5	5	6	6	6	6	6	6	
17	13	9999	43	41	39	25	30	R2	5	25	8	52	5	5	5	5	6	6	6	6	6	6	
17	16	0033	43	41	38	25	27	R1	5	02	8	51	5	5	5	5	6	6	6	6	6	6	
17	19	0059	41	40	38	26	26	R1	7	15	2	7	8	4	4	0	0	6	6	6	6	6	
17	22	0081	38	38	37	25	17	R1	3	25	8	3	2	4	4	0	0	6	6	6	6	6	
18	01	0092	40	39	58	25	23	R1	6	80	9	6	8	4	4	0	0	6	6	6	6	6	
18	04	0098	39	38	56	24	17	R1	5	26	8	5	8	4	4	0	0	6	6	6	6	6	
18	07	0108	40	40	39	25	23	R1	8	02	8	80	8	8	8	8	8	8	8	8	8	8	
18	10	0117	40	40	39	25	25	R1	5	26	8	5	9	3	3	0	0	5	5	5	5	5	
18	13	0124	42	42	31	25	30	R1	4	0	8	6	7	4	4	1	1	5	5	5	5	5	
18	16	0126	41	38	33	25	36	R1	6	18	8	5	8	5	5	5	5	6	6	6	6	6	
18	19	0141	40	37	30	25	21	R0	8	02	2	6	8	5	5	5	5	6	6	6	6	6	
19</td																							

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF JANUARY 1951																							
DAY	HOUR	STATION LEVEL PRESSURE	WIND			DEW POINT	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	MAXIMUM GUST						
			DRY BULB	WET BULB	DIRECTION							LOW	MIDDLE	HIGH			DIRECTION	SPEED					
LST.	Mts.	"F	"F	"F	*x10	Kts.	VV	Oktas	ww	W	Oktas	C _L	h	C _M	C _H	"F	"F	Points	Miles	*x10 Kts.	Hours		
2 1	0 1	0 0 8 4	4 4	4 4	4 4	2 6	1 9	0 2	9	5 3	5	9	0	0	0	4 5	4 4						
2 1	0 4	0 0 7 5	4 5	4 5	4 5	2 5	1 8	0 2	9	5 1	5	9	0	0	0	4 5	4 4						
2 1	0 7	0 0 7 5	4 5	4 5	4 4	2 5	1 7	0 2	9	4 7	5	9	0	0	0	4 5	4 4						
2 1	1 0	0 0 7 7	4 6	4 6	4 6	2 5	1 7	0 3	9	4 3	4	9	0	0	0	4 4	4 4						
2 1	1 3	0 0 7 3	4 9	4 8	4 7	2 5	1 9	4 0	7	4 0	4	9	0	0	0	4 4	4 4						
2 1	1 6	0 0 8 0	4 6	4 5	4 5	2 8	1 0	0 0	9	4 7	4	9	0	0	0	4 4	4 4						
2 1	1 9	0 0 7 9	4 4	4 4	4 3	2 8	0 8	0 0	9	4 5	4	9	0	0	0	4 4	4 4						
2 2	0 2	0 0 7 4	4 5	4 5	4 4	2 8	0 9	0 0	9	4 5	4	9	0	0	0	4 4	4 4						
2 2	0 5	0 0 7 2	4 5	4 5	4 4	2 6	1 0	0 2	9	4 3	4	9	0	0	0	4 4	4 4						
2 2	0 8	0 0 7 0	4 5	4 5	4 5	2 8	1 1	1 6	8	4 1	4	9	0	0	0	4 4	4 4						
2 2	1 1	0 0 7 3	4 4	4 4	4 4	2 8	0 5	0 0	9	4 7	4	9	0	0	0	4 4	4 4						
2 2	1 4	0 0 6 6	4 4	4 4	4 4	3 0	1 0	0 0	9	5 1	5	9	0	0	0	4 4	4 4						
2 2	1 7	0 0 5 5	4 4	4 4	4 4	2 9	0 5	1 0	8	5 3	5	9	0	0	0	4 4	4 4						
2 2	2 0	0 0 4 2	4 6	4 5	4 4	1 3	0 8	5 6	8	6 3	6	9	0	0	0	4 4	4 4						
2 2	2 3	0 0 5 8	4 3	4 1	4 1	2 2	0 7	8 0	6	0 1	6	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 3	0 1	0 0 8 4	3 9	3 7	3 4	2 7	0 5	8 2	2	0 2	1	1	1	1	1	4 9	4 3	0 0 0 2	3 1 5	2 5	3 0	0 1 1	
2 3	0 4	0 0 8 1	4 0	3 8	3 5	2 7	0 8	8 2	2	0 2	1	1	1	1	1	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 3	0 7	0 0 8 6	4 2	4 0	3 7	2 7	1 5	8 1	7	0 3	2	1	1	1	1	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 3	1 0	0 0 7 4	4 5	4 5	4 0	1 4	1 4	8 2	7	0 3	2	1	1	1	1	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 3	1 3	0 0 5 5	4 4	4 4	4 4	2 9	0 5	1 0	8	5 3	5	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 3	1 6	0 0 4 2	4 6	4 5	4 4	1 3	0 8	5 6	8	6 3	6	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 3	1 9	0 0 5 8	4 3	4 1	4 1	2 2	0 7	8 0	6	0 1	6	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 3	2 2	0 0 8 0	4 1	3 9	3 5	2 7	0 5	8 2	2	0 2	1	1	1	1	1	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 3	2 5	0 0 7 7	4 4	4 4	4 4	2 7	0 5	8 2	2	0 2	1	1	1	1	1	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 3	2 8	0 0 7 4	4 1	4 1	4 0	2 6	1 7	8 1	7	0 3	2	1	1	1	1	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 3	3 1	0 0 6 3	4 5	4 5	4 0	2 7	1 8	8 1	6	0 3	1	1	1	1	1	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 3	3 4	0 0 6 0	4 4	4 2	4 2	2 6	1 4	8 1	7	0 2	2	1	1	1	1	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 3	3 7	0 0 5 7	4 5	4 2	4 1	2 8	1 5	4 0	7	6 0	6	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	0 1	0 0 4 8	4 3	4 2	4 1	2 7	1 9	8 4	8	0 2	2	1	1	1	1	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	0 4	0 0 4 2	4 2	4 1	4 0	2 4	1 7	6 4	8	6 1	6	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	0 7	0 0 4 2	4 1	4 0	3 8	2 5	1 3	4 0	8	6 1	6	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	1 0	0 0 3 0	4 1	4 1	4 0	2 9	0 4	2 4	8	6 1	6	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	1 3	0 0 2 8	4 5	4 2	4 1	2 6	1 7	8 1	8	0 5	5	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	1 6	0 0 5 2	4 3	3 9	3 2	1 5	1 4	8 2	8	2 5	5	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	1 9	0 0 7 8	4 1	3 6	3 5	1 7	1 7	8 2	2	2	2	2	2	2	2	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	2 2	0 0 1 0	4 1	3 6	3 5	1 7	1 7	8 2	7	6 0	6	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	2 5	0 0 1 2	4 3	3 9	3 7	3 4	1 6	0 5	8 1	7	2 1	6	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0
2 4	2 8	0 0 1 4	4 1	3 9	3 6	1 5	0 3	8 1	8	0 2	2	2	2	2	2	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	3 1	0 0 1 6	4 1	3 8	3 4	1 6	0 6	8 1	8	0 2	2	2	2	2	2	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	3 4	0 0 1 5	4 3	4 0	3 6	2 7	1 0	8 1	8	0 2	2	2	2	2	2	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	3 7	0 0 1 5	4 5	4 2	4 1	2 5	2 4	8 1	7	0 3	2	2	2	2	2	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	4 0	0 0 1 5	4 5	4 2	4 1	2 5	2 5	8 0	7	0 2	2	2	2	2	2	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	4 3	0 0 1 7	4 4	4 4	4 3	2 5	2 5	0 4	9	4 7	4	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	4 6	0 0 1 7	4 5	4 5	4 4	2 6	1 7	0 1	9	5 1	5	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	4 9	0 0 1 7	4 5	4 5	4 4	2 6	1 7	0 1	9	5 1	5	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	5 2	0 0 1 7	4 5	4 5	4 4	2 6	1 7	0 1	9	5 1	5	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	5 5	0 0 1 7	4 5	4 5	4 4	2 6	1 7	0 1	9	5 1	5	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	5 8	0 0 1 7	4 5	4 5	4 4	2 6	1 7	0 1	9	5 1	5	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	6 1	0 0 1 7	4 5	4 5	4 4	2 6	1 7	0 1	9	5 1	5	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	6 4	0 0 1 7	4 5	4 5	4 4	2 6	1 7	0 1	9	5 1	5	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	6 7	0 0 1 7	4 5	4 5	4 4	2 6	1 7	0 1	9	5 1	5	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	7 0	0 0 1 7	4 5	4 5	4 4	2 6	1 7	0 1	9	5 1	5	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	7 3	0 0 1 7	4 5	4 5	4 4	2 6	1 7	0 1	9	5 1	5	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	7 6	0 0 1 7	4 5	4 5	4 4	2 6	1 7	0 1	9	5 1	5	9	0	0	0	4 6	4 1	0 0 0 5	2 3 6	2 4	2 3	0 0 0	
2 4	7 9	0 0 1 7	4 5	4 5	4 4	2 6	1 7	0 1	9	5 1	5	9	0	0	0	4 6	4 1						

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF JANUARY 1951

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE		
						DIRECTION	SPEED *x10						LOW	MIDDLE	HIGH	LOW	MIDDLE	HIGH		DIRECTION *x10	SPEED Kts.			
31	01	0205	40	40	40	28	09	00	9	47	4	9	0	3	0	8	6	1	0	Points	Miles	*x10	Kts.	Hours
31	04	0205	40	40	40	27	14	08	5	12	4	2	3	0	0	8	6	1	0					
31	07	0215	41	41	41	28	14	08	6	02	4	8	1	0	0	8	6	1	0					
31	10	0212	44	43	43	28	12	56	8	28	4	7	3	0	0	8	6	1	0					
31	13	0202	46	45	44	29	09	72	8	02	2	8	3	0	0	8	5	4	4					
31	16	0188	44	45	43	30	09	64	8	02	2	5	5	4	4	8	5	4	4					
31	19	0173	44	43	43	30	12	R1	8	02	2	5	5	4	4	8	5	4	4					
31	22	0155	44	44	43	31	16	64	8	02	2	5	5	4	4	8	5	4	4					

**RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF FEBRUARY 1951**

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF MACOURARIE ISLAND
FEBRUARY 1951**

DAY	HOUR	STATION LEVEL PRESSURE	WIND		DEW POINT	DIRECTION	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD AMOUNT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		.SUNSHINE								
			DRY BULB	WET BULB								SPEED	ANGLE	CL	CH	CL	CH	ANGLE	CL	CH	ANGLE	CL	CH	ANGLE	CL	CH	ANGLE	CL	CH
LST.	Mbs.	"F	"F	"F	"F	"x10	Kts.	VV	Oktas	vv	W	Oktas	C _L	h	C _M	C _H	"F	"F	Points	Miles	*x10	Kts.	Hours						
1	1	9 9 4 2 1	4 4	4 4	4 0	2 7	2 6	5 4	8	6 0	6	2 5	6	6	7	5	2	6	9										
1	2	9 9 5 8	4 5	4 4	3 6	2 5	2 4	9 0	6	6	6	2 5	6	6	6	6	6	6	6	6									
1	3	9 9 8 8	4 1	4 1	4 1	2 7	1 6	9 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1
1	4	9 9 0 6	3 9	3 9	3 6	2 6	1 5	8 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1		
1	5	9 9 8 7	4 3	4 2	4 0	2 8	2 3	8 1	5	8 0	5	8 0	5	8 0	5	8 0	5	8 0	5	8 0	5	8 0	5	8 0	5	8 0	5		
1	6	9 9 8 6	4 2	4 1	4 1	2 8	1 7	1 6	7	8 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1		
1	7	9 9 8 7	4 1	4 0	4 0	2 7	1 4	9 0	2	2 5	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1	1 0 1	1		
1	8	9 9 9 0	4 1	3 9	3 6	2 6	1 5	8 1	1	4 0 3	1	4 0 3	1	4 0 3	1	4 0 3	1	4 0 3	1	4 0 3	1	4 0 3	1	4 0 3	1	4 0 3	1		
1	9	9 9 0 6	3 9	3 8	3 5	2 2	1 5	8 1	5	2 6	5	2 6	5	2 6	5	2 6	5	2 6	5	2 6	5	2 6	5	2 6	5	2 6	5		
1	10	9 9 2 1	4 1	3 9	3 7	2 5	2 0	8 1	5	2 6	5	2 6	5	2 6	5	2 6	5	2 6	5	2 6	5	2 6	5	2 6	5	2 6	5		
1	11	9 9 2 1	4 3	4 2	4 0	2 8	2 6	2 0	8 1	6	8 0	6	8 0	6	8 0	6	8 0	6	8 0	6	8 0	6	8 0	6	8 0	6			
1	12	9 9 2 2	4 3	4 3	4 3	2 9	1 7	2 4	8	6 1	4	4 0 3	4	4 0 3	4	4 0 3	4	4 0 3	4	4 0 3	4	4 0 3	4	4 0 3	4	4 0 3	4		
1	13	9 9 2 2	4 3	4 3	4 3	3 0	2 1	0 8	8	6 1	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6		
1	14	9 9 6 8	4 5	4 5	4 4	3 0	2 6	1 6	8	6 1	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6		
1	15	9 9 5 0	4 5	4 4	4 4	3 0	2 2	1 6	8	6 1	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6		
1	16	9 9 0 3	4 5	4 4	4 4	3 2	1 7	1 6	8	6 1	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6		
1	17	9 9 6 3 6	4 6	4 5	4 6	3 3	3 5	1 6	8	6 1	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6		
1	18	9 7 4 8	4 7	4 7	4 7	3 2	3 0	1 2	7	2 6	8	1 0 1	8	1 0 1	8	1 0 1	8	1 0 1	8	1 0 1	8	1 0 1	8	1 0 1	8	1 0 1	8		
1	19	9 7 4 2 2	4 3	4 3	4 3	2 9	1 7	2 4	8	6 1	4	4 0 3	4	4 0 3	4	4 0 3	4	4 0 3	4	4 0 3	4	4 0 3	4	4 0 3	4	4 0 3	4		
1	20	9 7 0 4	4 3	4 3	4 3	3 0	2 1	0 8	8	6 1	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6		
1	21	9 7 5 0	4 5	4 5	4 4	3 0	2 2	1 6	8	6 1	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6		
1	22	9 7 7 5	4 1	3 9	3 6	2 5	1 5	0 8	8	6 1	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6		
1	23	9 7 8 5	4 1	3 9	3 7	2 7	2 3	0 8	7	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0		
1	24	9 7 6 4	4 0	4 0	4 0	2 7	2 2	2 4	8	6 1	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6	6 5	6		
1	25	9 7 5 7	4 1	4 0	3 8	2 7	1 5	0 8	8	2 7	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0		
1	26	9 7 8 5	4 1	4 0	3 8	2 7	1 5	0 8	8	2 1	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0		
1	27	9 7 6 4	4 0	4 0	4 0	2 7	2 2	2 4	8	2 1	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0		
1	28	9 7 8 7	4 1	4 0	3 8	2 7	1 5	0 8	8	2 1	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0		
1	29	9 9 8 7	4 5	4 4	4 3	2 8	2 0	2 0	7	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0		
1	30	9 9 8 6	4 5	4 4	4 4	2 8	1 7	3 2	8	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0		
1	31	9 9 8 8	4 5	4 5	4 5	2 9	2 3	2 4	8	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6		
1	32	9 9 5 8	4 6	4 5	4 5	2 9	2 0	2 4	8	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6		
1	33	9 9 4 5	4 5	4 5	4 5	2 9	1 6	2 2	8	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6		
1	34	9 9 0 0	4 4	4 4	4 4	2 9	1 9	2 2	8	5 5	5	1 5 5	5	1 5 5	5	1 5 5	5	1 5 5	5	1 5 5	5	1 5 5	5	1 5 5	5	1 5 5	5		
1	35	9 9 4 4 2	4 1	3 9	3 6	2 5	2 3	2 3	8	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0		
1	36	9 9 9 7 8	4 1	3 9	3 5	2 6	2 1	2 2	8	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0		
1	37	9 9 8 7	4 5	4 4	4 4	2 8	1 7	2 2	8	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0		
1	38	9 9 3 4	4 3	4 3	4 3	2 7	1 7	2 2	8	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0	2 0	0		
1	39	9 9 8 6	4 0	3 7	3 2	2 7	1 7	2 1	8	1	7	8 3	2	2 4	2	2 4	2	2 4	2	2 4	2	2 4	2	2 4	2	2 4	2		
1	40	9 9 1 1	3 7	3 7	3 7	2 4	2 3	2 3	8	1	7	8 3	2	2 4	2	2 4	2	2 4	2	2 4	2	2 4	2	2 4	2	2 4	2		
1	41	9 9 2 8	4 1	4 0	3 9	2 7	2 0	2 0	8	0	8	5 3	1	6 9 3	1	6 9 3	1	6 9 3	1	6 9 3	1	6 9 3	1	6 9 3	1	6 9 3	1		
1	42	9 9 0 2 2	4 1	3 7	2 9	2 3	2 3	8	1	7	0 3	2	6 9 0	2	6 9 0	2	6 9 0	2	6 9 0	2	6 9 0	2	6 9 0	2	6 9 0	2			
1	43	9 9 9 3	4 5	4 5	4 2	4 0	2 9	3 0	5 4	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6			
1	44	9 9 5 2	4 4	4 3	4 2	3 0	3 2	2 4	8	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6	6 0	6		
1	45	9 9 2 4	4 5	4 4	4 3	2 9	2 8	3 2	8	5 1	5	1 5 1	5	1 5 1	5	1 5 1	5	1 5 1	5	1 5 1	5	1 5 1	5	1 5 1	5	1 5 1	5		
1	46	9 9 2 2	4 5	4 4	4 3																								

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF MACQUARIE ISLAND
FEBRUARY 1951**

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND DIRECTION	WIND SPEED "x10	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE		
													LOW	MIDDLE	HIGH	DIRECTION	DIRECTION	SPEED						
LST.	Mbs.	"F	"F	"F	"x10	Kts.	VV	Oktas	vv	W	Oktas	C _L	h	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.	Hours		
1	0 1	0 1 4 2	4 4	4 4	4 3	2 5	3 0	1 6	8	5 1	5	8	6	3										
1	0 4	0 1 4 3	4 5	4 5	4 3	2 5	2 3	1 6	8	5 1	5	8	6	3										
1	0 7	0 1 4 7	4 4	4 4	4 3	2 7	2 2	4 0	8	5 0	5	8	5	4										
1	1 0	0 1 5 1	4 5	4 4	4 2	2 6	2 2	6 4	8	5 1	2	7	8	3	5	0								
1	1 3	0 1 5 8	4 5	4 3	4 0	2 5	2 4	7 2	8	5 2	2	7	8	5	4									
1	1 6	0 1 5 5	4 5	4 4	4 3	2 7	1 5	8 0	8	5 2	2	8	5	4										
1	1 9	0 1 3 9	4 4	4 4	4 3	2 7	2 1	3 2	8	2 0	5	8	6	2										
2	2 2	0 0 1 2 4	4 4	4 4	4 3	2 8	1 9	4 8	8	5 2	2	8	6	3										
2	2 5	0 0 0 6 5	4 5	4 5	4 4	2 8	2 4	4 0	8	5 1	5	8	6	3										
2	2 8	0 0 0 7 5	4 5	4 5	4 5	2 8	2 3	4 0	8	5 0	5	8	6	2										
3	1 0	0 0 0 7 2	4 6	4 5	4 5	2 8	2 3	4 0	8	5 2	2	8	6	2										
3	1 3	0 0 0 7 3	4 6	4 5	4 5	2 8	2 2	3 2	8	5 2	2	8	6	2										
3	1 6	0 0 0 7 3	4 6	4 5	4 5	2 8	1 7	1 6	8	5 1	5	8	6	1										
3	1 9	0 0 0 6 7	4 5	4 5	4 5	2 9	1 5	1 2	8	5 1	5	8	6	0										
4	2 2	0 0 0 7 2	4 5	4 5	4 4	2 9	1 2	0 4	8	6 1	5	8	6	0										
4	2 5	0 0 0 6 1	4 5	4 5	4 4	2 9	0 9	0 0	9	6 0	4	9	6	0										
4	2 8	0 0 0 3 4	4 5	4 5	4 4	3 0	1 0	0 2	9	4 3	6	9	6	0										
5	1 0	0 0 0 1 5	4 5	4 5	4 5	3 0	1 5	0 8	8	6 3	6	8	6	0										
5	1 3	0 0 0 0 2	4 4	4 4	4 4	2 9	1 0	0 1	9	5 1	5	9	6	0										
5	1 6	0 0 0 0 1	4 2	4 2	4 2	2 9	0 9	0 0	9	5 1	5	9	6	1										
5	1 9	0 0 0 0 1	4 2	4 2	4 2	2 9	1 5	0 8	8	5 1	5	9	6	0										
6	2 2	0 0 0 0 6	4 1	4 0	3 9	1 5	0 6	5 6	8	2 1	6	2	5	5	4	3	5	5	5	6	0			
6	2 5	0 0 0 1 3	4 1	3 9	3 5	1 8	0 9	8 0	7	0 1	2	1	5	4	3	0	0	0	0	0	0			
6	2 8	0 0 0 2 5	4 2	3 7	3 3	1 8	0 9	8 2	3	0 1	1	1	8	4	0	0	0	0	0	0	0			
7	1 0	0 0 0 5 4	4 2	4 0	3 7	2 5	0 6	8 2	2	0 2	0	2	8	4	4	0	0	0	0	0	0			
7	1 3	0 0 0 7 8	4 4	4 1	3 7	2 1	1 0	8 2	6	0 3	1	5	5	6	4	0	0	0	0	0	0			
7	1 6	0 0 0 1 0	4 4	4 1	3 7	2 1	1 5	8 8	6	2 5	2	7	8	5	2	0	0	0	0	0	0			
7	1 9	0 0 0 1 2	4 2	4 0	3 7	2 1	1 5	8 2	6	2 5	2	7	8	5	2	0	0	0	0	0	0			
7	2 2	0 0 0 1 5	4 1	4 0	3 7	2 1	1 5	8 2	6	2 5	2	7	8	5	2	0	0	0	0	0	0			
7	2 5	0 0 0 1 8	4 1	4 0	3 7	2 1	1 5	8 2	6	2 5	2	7	8	5	2	0	0	0	0	0	0			
7	2 8	0 0 0 2 1	4 1	4 0	3 7	2 1	1 5	8 2	6	2 5	2	7	8	5	2	0	0	0	0	0	0			
8	1 0	0 0 0 2 4	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
8	1 3	0 0 0 2 3	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
8	1 6	0 0 0 1 7	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
8	1 9	0 0 0 1 7	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
8	2 2	0 0 0 2 4	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
8	2 5	0 0 0 2 3	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
8	2 8	0 0 0 1 6	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
9	1 0	0 0 0 1 8	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
9	1 3	0 0 0 1 8	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
9	1 6	0 0 0 1 8	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
9	1 9	0 0 0 1 7	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
9	2 2	0 0 0 1 6	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
9	2 5	0 0 0 1 5	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
9	2 8	0 0 0 1 4	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
10	1 0	0 0 0 1 3	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
10	1 3	0 0 0 1 2	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
10	1 6	0 0 0 1 1	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
10	1 9	0 0 0 1 0	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
10	2 2	0 0 0 0 9	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
10	2 5	0 0 0 0 8	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
10	2 8	0 0 0 0 7	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
11	1 0	0 0 0 0 6	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
11	1 3	0 0 0 0 5	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
11	1 6	0 0 0 0 4	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
11	1 9	0 0 0 0 3	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
11	2 2	0 0 0 0 2	4 1	4 0	3 9	0 0	0 0	8 2	6	0 3	0	0	0	0	0	0	0	0	0	0	0			
11	2 5	0 0 0 0 1	4 1	4 0	3 9	0 0	0 0	8 2																

**RESULTS OF SURFACE OBSERVATIONS AT
MACQUARIE ISLAND
FOR THE MONTH OF MARCH 1951**

FOR THE MONTH OF MARCH 1951																										
DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB		WET BULB		DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	CLOUD DIRECTION		ANEMOMETER	MAXIMUM GUST										
			DIRECTION	SPEED	DIRECTION	SPEED		Kts.	VV		Oktas	WW	W	C _L	h	C _M	C _L	C _M	C _H	DIRECTION	SPEED	SUNSHINE				
01	01	00 6 6	4 3	4 3	0 0	0 0	3 2	d	4 1	2	8	6	1	0	0	0	7	7	9	4 9	4 3	0 0 0 1	3 9 6	3 3 2 5 0 6 6		
01	04	00 5 0	4 4	4 4	4 4	3 2	0 5	0 2	9	4 7	4	9	5	0	0	0	0	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
01	07	00 4 1	4 5	4 5	4 4	3 2	0 7	8 1	7	0 2	4	7	5	5	5	5	5	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
01	10	00 2 7	4 7	4 5	4 5	3 2	1 3	8 2	2	0 1	4	1	1	1	1	1	1	8	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
01	13	00 9 9 5	4 8	4 8	4 4	3 3	1 3	8 2	2	0 2	0	1	1	1	1	1	1	8	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
01	16	00 9 7 5	4 7	4 5	4 3	3 4	1 7	8 0	6	0 3	1	1	1	1	1	1	1	8	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
01	19	00 9 6 5	4 7	4 5	4 4	3 2	1 7	7 2	8	0 2	2	2	2	2	2	2	2	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
02	2 2	00 9 9 5 5	4 5	4 5	4 5	3 2	1 5	2 4	8	5 1	5	8	6	5	5	5	5	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
02	0 1	00 9 9 4 4	4 5	4 5	4 5	3 1	1 0	0 2	9	4 5	4	9	6	0	0	0	0	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
02	0 4	00 9 1 9	4 5	4 5	4 5	4 6	2 2	0 8	0 2	9	4 5	4	9	6	0	0	0	0	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1
02	0 7	00 9 5 8	4 7	4 5	4 5	3 5	1 7	4 8	8	0 2	4	2	2	2	2	2	2	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
02	1 0	00 9 8 6 6	4 6	4 6	4 5	4 5	3 2	1 6	2 4	8	6 3	6	1	1	1	1	1	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
02	1 3	00 9 8 6 0	4 5	4 5	4 4	2 0	0 0	0 1	8 1	8	0 2	5	5	5	5	5	5	5	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1
02	1 6	00 9 8 6 6	4 1	4 0	3 9	1 8	0 4	8 1	3	0 1	2	2	1	1	1	1	1	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
02	1 9	00 9 8 6 3	4 3	3 8	3 5	2 5	1 0	0 2	2	0 2	0	2	2	2	2	2	2	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
03	0 1	00 9 0 2	3 9	3 6	3 5	0 0	0 0	0 1	8 1	7	0 3	1	1	1	1	1	1	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
03	0 4	00 9 0 9	4 0	3 9	3 7	2 9	0 6	9 1	6	0 3	1	1	1	1	1	1	1	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
03	0 7	00 9 0 9	4 3	4 5	4 3	3 3	1 0	9 0	8	0	2	5	5	5	5	5	5	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
03	1 0	00 9 4 9	4 5	4 4	4 2	3 1	1 8	8 0	8	0	2	5	5	5	5	5	5	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
03	1 3	00 9 4 9 9	4 5	4 5	4 5	4 5	3 1	2 9	1 6	8	5 1	6	8	6	6	6	6	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
03	1 6	00 9 3 2	4 7	4 5	4 5	3 0	2 0	3 2	2	0 4	5	0	0	0	0	0	0	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
03	1 9	00 9 2 5	4 7	4 6	4 4	4 1	2 9	2 6	3 2	4	2 5	2	2	2	2	2	2	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
04	2 2	00 9 4 6	4 5	4 5	4 5	3 9	2 8	3 3	1 6	8	6 1	6	8	6	6	6	6	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
04	0 1	00 9 7 7	4 2	4 1	4 0	2 8	2 5	8 1	0	2 5	3	0	0	0	0	0	0	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
04	0 4	00 9 9 7	4 5	4 1	3 7	2 8	2 6	8 1	5	2 5	3	4	4	4	4	4	4	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
04	0 7	00 9 5 2	4 2	4 0	3 6	2 7	1 6	6 4	4	1 6	2	4	4	4	4	4	4	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
04	1 0	00 9 5 3	4 5	4 2	4 2	2 8	2 2	8 0	1	0 1	8 1	1	1	1	1	1	1	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
04	1 3	00 9 6 5	4 6	4 3	4 3	2 8	1 9	8 1	1	0 2	1	1	1	1	1	1	1	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
04	1 6	00 9 6 5 2	4 6	4 4	4 1	2 9	1 1	8 1	5	0 3	1	1	1	1	1	1	1	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
04	1 9	00 9 6 6	4 3	4 5	4 2	3 1	0 8	8 0	7	0 3	2	0	0	0	0	0	0	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
04	2 2	00 9 6 1	4 5	4 5	4 3	3 1	0 7	8 0	7	0 3	2	2	2	2	2	2	2	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
05	0 1	00 9 4 5	4 3	4 5	4 2	3 2	0 9	8 1	1	0 2	1	0	0	0	0	0	0	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
05	0 4	00 9 2 8	4 5	4 2	4 2	3 3	0 6	8 1	3	0 3	1	0	0	0	0	0	0	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
05	0 7	00 9 1 4	4 4	4 2	4 0	3 4	0 9	8 1	7	0 3	2	1	1	1	1	1	1	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
05	1 0	00 9 0 4	4 5	4 4	4 2	3 4	0 9	8 1	8	0 3	0	0	0	0	0	0	0	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
05	1 3	00 9 0 4 3	4 4	4 3	4 2	0 8	0 8	8 0	8	6 1	6	3	7	3	2	3	3	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
05	1 6	00 9 0 2	4 4	4 2	4 2	1 4	2 0	1 6	8	5 5	6	8	6	6	6	6	6	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
05	1 9	00 9 0 1	4 2	4 2	4 2	1 4	1 3	0 9	4 0	8	5 0	5	8	6	6	6	6	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
05	2 2	00 9 0 2	4 5	4 4	4 2	0 7	0 4	2 4	8 1	8	6 1	6	3	7	3	2	3	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
06	0 1	00 9 7 8	4 7	4 4	3 9	2 9	3 6	4 0	4 0	2	0 4	2	7	6	6	6	6	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
06	0 4	00 9 8 2	4 7	4 5	4 3	3 0	2 9	2 9	2 4	4	2 5	2	2	2	2	2	2	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
06	0 7	00 9 8 5 7	4 8	4 5	4 1	2 9	2 9	3 5	4 0	4 1	1 1	1	1	1	1	1	1	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
06	1 0	00 9 8 5 7	4 8	4 5	4 4	2 9	2 9	3 5	4 0	4 1	1 1	1	1	1	1	1	1	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
06	1 3	00 9 8 6 2	4 5	4 5	4 3	2 9	2 9	3 5	4 0	4 2	1 1	1	1	1	1	1	1	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
06	1 6	00 9 8 5 2	4 5	4 5	4 3	3 5	0 5	3 2	3 2	4 0	8 1	5 0	5	8	6	6	6	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
06	1 9	00 9 8 5	4 5	4 5	4 4	3 5	0 5	3 2	3 2	4 0	8 1	5 0	5	8	6	6	6	7	7	9	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
06	2 2	00 9 8 5 7	4 5	4 5	4 3	3 0	3 0	3 0	4 8	8 0	0	0	0	0	0	0	0	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
07	0 1	00 9 8 6 4	4 0	4 7	3 1	2 8	3 1	6 4	6	0 3	8	5	6	4	4	4	4	0	0	0	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
07	0 4	00 9 8 6 9	4 8	4 5	4 3	3 1	2 8	3 1	6 4	6	0 3	8	5	6	4	4	4	4	0	0	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
07	0 7	00 9 8 7 3	4 8	4 5	4 3	3 1	2 7	4 1	6	8	5 3	5	6	7	3	3	3	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
07	1 0	00 9 8 7 7	4 5	4 5	4 3	3 0	2 8	3 1	6 4	8	1 8	5	8	5	4	4	4	4	0	0	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
07	1 3	00 9 8 8 2	4 6	4 5	4 4	3 0	2 8	3 1	6 4	8	0 5	0	0	0	0	0	0	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1	
07	1 6	00 9 8 8 7	4 6	4 5	4 4	3 0	2 8	3 1	6 4	8	0 5	0	0	0	0	0	0	6	6	7	4 8	4 0	0 0 0 6	2 7 1	3 4 2 7 0 0 1</td	

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF**

**MACQUARIE ISLAND
MARCH 1951**

DAY	HOUR	STATION LEVEL PRESSURE	WIND		DEW POINT	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	LOW CLOUD	CLOUD DIRECTION		MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE	
			DIRECTION	SPEED *x10															
LST.	Mbs.	"F	"F	"F	"x10	Kts.													Hours
11	0 1	0 1 0 6	4 5	4 1	3 8	3 0	1 8	8 1	0 0 1	1	0	0	9	2	0	0	0	0	
11	0 4	0 0 9 2	4 5	4 3	4 2	2 9	2 2	6 4	8 0	6	0	0	9	2	7	7	7	9	
11	0 7	0 0 6 9	4 5	4 4	4 3	3 0	2 6	6 4	8 0	2	6	0	7	3	2	7	7	7	
11	1 0	0 0 4 6	4 5	4 5	4 4	3 0	3 0	4 8	8 0	2	1	6	6	2	7	7	7	7	
11	1 3	0 0 2 8	4 5	4 5	4 5	3 0	3 0	1 2	8 0	6	3	6	6	2	7	7	7	7	
11	1 6	0 0 1 8	4 6	4 5	4 5	5 0	2 7	1 6	8 0	6	1	6	6	2	7	7	7	7	
11	1 9	0 0 2 1	4 5	4 5	4 5	3 0	1 9	1 6	8 0	5	0	5	0	1	7	7	7	7	
11	2 2	0 0 3 6	4 5	4 5	4 5	2 8	1 7	0 6	8 0	5	0	5	6	1	7	7	7	7	
12	0 1	0 0 3 6	4 4	4 4	4 4	2 9	1 0	0 8	8 0	2	5	5	6	2	6	6	6	6	
12	0 4	0 0 2 1	4 4	4 4	4 4	5 2	1 0	0 8	8 0	6	3	6	6	0	7	7	7	7	
12	0 7	9 9 9 7	4 6	4 6	4 5	3 0	1 8	1 6	8 0	5	3	6	6	1	6	6	6	6	
12	1 0	9 9 5 6	4 7	4 5	4 6	3 0	2 5	2 4	8 0	0	2	5	6	2	7	7	7	7	
12	1 3	9 9 1 8	4 7	4 7	4 6	5 1	2 5	0 6	8 0	5	1	5	6	0	7	7	7	7	
12	1 6	9 8 6 4	4 8	4 8	4 7	2 9	1 1	1 6	8 0	5	5	5	6	0	7	7	7	7	
12	1 9	9 8 4 5	4 7	4 5	4 5	2 8	2 7	1 6	8 0	2	0	5	6	3	6	6	6	6	
12	2 2	9 8 4 7	4 4	4 3	4 1	2 8	4 0	1 6	8 0	5	0	5	6	3	6	6	6	6	
13	0 1	9 9 4 7	3 8	3 8	3 8	2 4	3 5	4 0	7 0	8	1	6	5	3	0	7	7	7	
13	0 4	0 0 1 9	4 1	3 9	3 5	2 5	2 8	0 7	0	2	8	7	8	4	0	6	6	6	
13	0 7	0 0 7 0	4 1	3 9	3 6	2 5	2 0	0 2	5 0	1	5	8	4	0	6	6	6	6	
13	1 0	0 1 1 8	4 3	4 0	3 5	2 5	1 2	8 2	2	0	0	9	0	6	6	6	6	6	
13	1 3	0 1 5 3	4 5	4 3	4 0	2 8	0 9	8 1	7 0	3	2	7	8	5	3	0	6	6	
13	1 6	0 1 3 7	4 4	4 4	4 3	2 9	1 1	8 0	7 0	2	2	2	6	8	5	0	6	6	
13	1 9	0 1 5 6	4 4	4 4	4 3	2 8	1 5	8 0	6 0	6	0	2	2	0	0	0	0	0	
13	2 2	0 1 6 0	4 4	4 4	4 3	2 8	1 6	8 0	0	0	1	0	0	0	0	0	0	0	
14	0 1	0 1 5 7	4 4	4 4	4 3	2 9	1 7	8 2	1 0	2	0	1	5	5	4	7	7	7	
14	0 4	0 1 6 4	4 5	4 5	4 4	3 0	1 4	8 2	7 0	3	1	3	5	5	4	7	7	7	
14	0 7	0 1 6 7	4 5	4 5	4 5	2 9	1 5	8 1	8 0	2	0	1	5	4	7	7	7	7	
14	1 0	0 1 7 3	4 6	4 5	4 5	2 9	1 4	6 4	7 0	5	5	2	5	5	4	7	7	7	
14	1 3	0 1 7 3	4 7	4 6	4 6	2 9	1 2	6 4	7 0	5	5	2	5	5	4	7	7	7	
14	1 6	0 1 7 4	4 7	4 6	4 6	2 9	1 0	4 8	6 0	5	5	2	6	3	3	8	7	7	
14	1 9	0 1 6 9	4 5	4 5	4 5	2 9	1 1	4 8	5 0	1	1	6	3	3	3	8	7	7	
14	2 2	0 1 6 8	4 5	4 5	4 4	3 0	1 6	8 0	2	0	1	0	0	9	3	0	0	0	
15	0 1	0 1 5 6	4 5	4 5	4 5	3 0	1 7	8 0	8 0	3	1	8	5	5	4	7	7	7	
15	0 4	0 1 4 0	4 5	4 5	4 5	3 1	1 6	8 0	8 0	2	0	1	8	5	4	7	7	7	
15	0 7	0 1 2 3	4 5	4 5	4 5	3 1	1 7	4 0	8 0	5	1	5	5	6	3	2	8	8	
15	1 0	0 0 9 1	4 7	4 7	4 6	3 1	1 5	1 2	8 0	5	1	5	5	6	0	9	9	9	
15	1 3	0 0 4 2	4 7	4 7	4 6	3 2	2 1	1 2	8 0	5	1	5	5	6	1	9	9	9	
15	1 6	0 0 1 6	4 7	4 7	4 7	3 1	2 0	0 3	9 4	7	5	4	8	6	2	7	7	7	
15	1 9	9 9 9 7	4 7	4 7	4 7	3 0	2 5	1 2	8 0	5	0	4	8	6	2	7	7	7	
15	2 2	0 0 0 8	4 6	4 6	4 6	3 1	2 3	1 6	8 0	2	0	2	8	6	2	7	7	7	
16	0 1	0 0 1 3	4 6	4 5	4 5	2 8	0 8	3 2	8 0	2	0	2	8	6	3	0	0	0	
16	0 4	0 0 1 1	4 5	4 5	4 4	2 8	0 8	3 2	8 0	2	0	2	8	6	3	0	0	0	
16	0 7	0 0 1 5	4 4	4 4	4 4	2 8	0 7	6 4	7 0	2	0	2	8	6	3	0	0	0	
16	1 0	0 0 1 8	4 7	4 5	4 6	3 0	1 2	4 8	7 0	5	5	2	6	8	4	0	1	6	
16	1 3	0 0 1 6	4 8	4 7	4 7	2 9	1 1	5 6	2 0	5	5	2	1	6	3	3	3	3	
16	1 6	0 0 1 9	4 6	4 5	4 5	2 9	1 3	5 4	2 0	5	5	2	1	6	3	3	3	3	
16	1 9	0 0 2 5	4 5	4 5	4 5	2 9	1 5	7 2	2 0	5	5	1	2	8	4	0	0	0	
16	2 2	0 0 2 0	4 5	4 4	4 4	2 9	1 7	8 1	3 0	3	5	1	3	8	4	0	0	0	
17	0 1	9 9 9 6	4 5	4 4	4 4	3 1	2 1	9 2	1 0	2	0	2	8	6	5	3	7	7	
17	0 4	9 9 5 4	4 5	4 5	4 4	3 2	2 5	1 6	8 0	5	3	5	6	4	4	7	7	7	
17	0 7	9 8 8 1	4 4	4 3	4 2	2 8	3 0	6 4	7 0	5	3	5	6	4	3	0	0	0	
17	1 0	9 8 6 6	4 4	4 4	4 3	2 9	4 4	3 2	7 0	4	2	7	5	4	4	0	0	0	
17	1 3	9 9 0 2	4 5	4 5	4 2	2 7	3 7	3 2	7 0	4	2	7	5	4	4	0	0	0	
17	1 6	9 9 4 2	4 4	4 2	3 9	2 7	3 0	5 6	7 0	8	5	3	4	4	0	0	0	0	
17	1 9	9 9 7 2	4 1	4 1	4 1	2 7	2 3	6 4	5 0	2	2	4	8	4	4	0	0	0	
17	2 2	9 9 6 0	4 5	4 2	4 1	2 8	2 9	4 0	8 0	8	0	8	8	8	4	0	0	0	
18	0 1	9 8 9 3	4 3	4 3	4 3	3 0	2 9	1 6	8 0	6	3	6	8	7	3	7	7	7	
18	0 4	9 8 6 9	4 4	4 4	4 3	2 7	3 4	3 2	7 0	7	2	1	6	5	4	0	0	6	
18	0 7	9 9 0 9	4 3	4 2	4 0	2 7	3 2	8 0	6	2	5	8	6	5	4	0	0	6	
18	1 0	9 9 5 5	4 4	4 2	3 9	2 6	3 3	6 4	3 0	4	3	8	4	0	1	6	6	6	
18	1 3	9 9 8 7	4 5	4 4	4 2	2 6	2 3	8 0	7 0	4	1	5	8	4	0	1	6	6	
18	1 6	9 9 9 5	4 4	4 3	4 2	2 7	2 3	5 6	8 0	4	8	4	8	5	7	6	6	6	
18	1 9	0 0 0 8	4 0	4 0	4 0	2 7	1 7	8 0	3 0	2	5	8	2	8	5	6	0	6	
18	2 2	0 0 1 7	4 1	4 1	4 1	2 6	1 5	8 1	5 0	2	0	2	8	3	8	5	6	6	
19	0 1	0 0 1 8	4 1	4 1	4 1	2 7	1 4	8 2	1 0	2	0	2	8	3	8	5	6	6	
19	0 4	0 0 2 4	4 1	4 0	3 9	2 7	1 9	8 2	2 0	1	2	5	8	2	8	5	5	6	
19	0 7	0 0 3 7	4 1	4 1	4 1	2 6	1 6	8 1	5 0	1	5	6	5	4	0	3	6	6	
19	1 0	0 0 6 3	3 8	3 8	3 8	2 7	0 9	8 2	4	2	6	8	2	9	4	6			

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF MACQUARIE ISLAND
MARCH 1951**

DAY	HOUR	STATION LEVEL PRESSURE	MACQUARIE ISLAND												MAXIMUM GUST	SUNSHINE					
			DRY BULB	WET BULB	DEW POINT	DIRECTION	WIND SPEED	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD	CLOUD DIRECTION	MIDDLE	HIGH	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER		
LST.	Mbs.	"F	"F	"F	"x10	Kts.	VV	Oktas	ww	W	Oktas	C _L	C _M	C _H	"F	"F	Points	Miles	"x10 Kts.	Hours	
21	01	9 9 7 7	4 5	4 5	4 2	3 5	2 0	4 8	0	0 2	N	5	4	7	7	7					
21	04	9 9 9 6	4 4	4 4	4 3	3 2	2 7	4 0	0	0 6	6	6	6	6	6	6					
21	07	9 9 3 8	4 5	4 5	4 4	3 1	2 5	4 0	0	0 6	6	6	6	6	6	6					
21	10	9 7 8 1	4 6	4 5	4 5	2 9	3 0	4 0	0	0 5	5	5	5	5	5	5					
21	13	9 7 8 1	4 6	4 4	4 1	2 9	3 0	6 4	0	0 1	0	0	0	0	0	0					
21	16	9 7 9 5	4 4	4 3	4 1	2 8	3 2	4 8	0	0 4	0	0	0	0	0	0					
21	19	9 8 2 8	4 5	4 2	4 1	2 7	3 0	6 4	0	0 2	5	5	5	5	5	5	4 6	4 2	0 0 2 3	7 6 5	
22	01	9 6 5 8	4 2	4 1	4 0	2 7	2 5	6 4	0	0 5	5	5	5	5	5	5			2 8	4 7	0 3 4
22	04	9 8 7 3	4 0	3 9	3 8	2 7	2 0	8 0	0	0 8	8	8	8	8	8	8					
22	07	9 8 7 4	4 1	3 9	3 5	2 8	2 2	8 1	0	0 1	0	0	0	0	0	0					
22	10	9 8 8 5	3 7	3 7	3 7	2 9	2 2	8 1	0	0 2	5	5	5	5	5	5					
22	13	9 8 8 7	4 2	4 0	3 8	2 5	2 2	8 0	0	0 6	6	6	6	6	6	6					
22	16	9 9 1 6	4 0	3 6	3 5	2 6	2 1	8 1	0	0 5	5	5	5	5	5	5					
22	19	9 9 5 3	4 1	3 6	3 3	2 5	2 4	8 0	0	0 2	2	2	2	2	2	2					
23	01	0 0 0 3	3 8	3 8	3 8	2 4	1 8	4 0	0	0 2	5	5	5	5	5	5					
23	04	0 0 2 9	3 6	3 6	3 5	2 6	1 2	8 0	0	0 8	8	8	8	8	8	8					
23	07	0 0 4 9	3 9	3 6	3 6	2 6	1 2	8 1	0	0 6	6	6	6	6	6	6					
23	10	0 0 6 4	4 2	4 1	3 9	2 8	1 6	8 0	0	0 1	0	0	0	0	0	0					
23	13	0 0 5 1	4 5	4 3	4 2	2 8	2 3	8 1	0	0 3	1	1	1	1	1	1					
23	16	0 0 3 9	4 2	4 1	4 1	2 7	2 1	6 4	0	2	1	1	1	1	1	1					
23	19	0 0 0 5	4 3	4 3	4 3	2 9	2 9	2 4	0	0 8	6	6	6	6	6	6					
23	22	9 9 9 9	4 4	4 4	4 3	2 8	2 5	2 5	0	0 6	6	6	6	6	6	6					
24	01	0 0 1 0	4 5	4 2	4 2	2 6	2 6	1 6	0	0 8	8	8	8	8	8	8					
24	04	0 0 1 9	4 4	4 3	4 3	2 7	1 8	6 4	0	0 2	2	2	2	2	2	2					
24	07	0 0 3 9	4 4	4 4	4 3	2 5	1 8	8 0	0	0 7	2	2	2	2	2	2					
24	10	0 0 7 4	4 5	5 9	2 4	1 9	5 4	4 0	0	0 2	2	2	2	2	2	2					
24	13	0 0 9 4	4 4	4 5	4 1	2 4	1 7	8 0	0	0 2	2	2	2	2	2	2					
24	16	0 1 0 0	4 4	4 4	4 3	2 8	1 0	4 0	0	0 8	8	8	8	8	8	8					
24	19	0 1 0 2	4 3	4 3	4 3	2 8	1 1	2 4	0	0 2	2	2	2	2	2	2					
24	22	0 1 0 1	4 4	4 4	4 3	3 0	1 5	0 2	0	0 9	9	9	9	9	9	9					
25	01	0 0 8 5	4 5	4 4	4 4	3 1	1 9	0 8	0	0 6	6	6	6	6	6	6					
25	04	0 0 5 4	4 5	4 5	4 4	3 1	2 4	4 8	0	0 2	2	2	2	2	2	2					
25	07	0 0 3 0	4 6	4 5	4 5	3 1	2 5	8 0	0	0 3	3	3	3	3	3	3					
25	10	0 0 0 7	4 6	4 6	4 6	3 1	2 9	4 0	0	0 2	2	2	2	2	2	2					
25	13	9 9 7 4	4 6	4 6	4 6	3 1	3 0	4 0	0	0 2	2	2	2	2	2	2					
25	16	9 9 2 3	4 7	4 5	4 6	3 1	3 6	2 4	0	0 6	6	6	6	6	6	6					
25	19	9 9 2 4	4 4	4 4	4 2	3 0	2 6	4 0	0	0 7	7	7	7	7	7	7					
25	22	9 9 5 7	4 5	4 1	5 8	2 8	3 9	4 0	0	1 0	4	4	4	4	4	4					
26	01	0 0 0 0	4 2	4 1	5 9	2 7	3 2	6 4	0	0 4	0	0	0	0	0	0					
26	04	0 0 3 5	4 2	4 2	4 1	4 0	2 7	2 4	6 4	0	0 5	5	5	5	5	5					
26	07	0 0 8 5	4 2	4 1	4 0	2 7	2 4	6 4	0	0 5	5	5	5	5	5	5					
26	10	0 0 9 4	4 4	4 4	4 1	2 4	1 7	8 0	0	0 2	2	2	2	2	2	2					
26	13	0 0 1 0	4 4	4 4	4 3	2 8	1 1	2 4	0	0 2	2	2	2	2	2	2					
26	16	0 0 1 2	4 4	4 4	4 4	3 0	1 5	0 2	0	0 9	9	9	9	9	9	9					
26	19	0 0 8 5	4 5	4 5	4 4	3 1	1 9	0 8	0	0 6	6	6	6	6	6	6					
26	22	0 0 3 0	4 6	4 5	4 5	3 1	2 5	8 0	0	0 2	2	2	2	2	2	2					
27	01	0 0 0 7	4 6	4 6	4 6	3 1	1 3	8 1	0	0 2	2	2	2	2	2	2					
27	04	0 0 5 5	4 3	4 5	4 2	3 2	1 1	6 4	0	0 5	5	5	5	5	5	5					
27	07	0 0 2 5	4 5	4 4	4 3	3 4	1 7	6 4	0	0 3	3	3	3	3	3	3					
27	10	0 0 7 0	4 5	4 4	4 4	3 4	2 4	6 4	0	0 3	3	3	3	3	3	3					
27	13	9 9 7 0	4 5	4 4	4 4	3 4	2 4	6 4	0	0 3	3	3	3	3	3	3					
27	16	9 9 0 1	4 5	4 5	4 4	3 4	3 2	2 4	0	0 3	3	3	3	3	3	3					
27	19	9 9 5 5	4 7	4 7	4 6	3 2	2 3	0 1	0	0 4	4	4	4	4	4	4					
28	01	9 9 8 7	4 5	4 5	4 4	4 9	2 1	0 6	0	0 8	8	8	8	8	8	8					
28	04	9 9 9 5	4 2	4 0	5 6	2 4	1 7	8 1	0	0 1	1	1	1	1	1	1					
28	07	9 9 2 4	4 1	4 0	5 8	2 7	1 4	8 1	0	0 3	3	3	3	3	3	3					
28	10	9 9 3 8	4 5	4 2	4 0	3 0	1 6	8 0	0	0 5	5	5	5	5	5	5					
28	13	9 9 2 5	4 4	4 3	4 3	3 0	2 5	8 0	0	0 7	7	7	7	7	7	7					
28	16	9 9 0 8	4 5	4 4	4 3	3 0	3 0	4 0	0	0 8	8	8	8	8	8	8					
28	19	9 9 9 0	4 5	4 5	4 5	3 1	3 1	0 4	0	0 9	5	5	5	5	5	5					
29	01	9 9 9 1	4 5	4 5	4 5	3 0	2 4	1 2	8 1	0	0 6	6	6	6	6	6					
29	04	9 9 9 2	4 4	4 4	4 4	3 0	1 1	0 6	0	0 6	6	6	6	6	6	6					
29	07	9 9 9 3	4 4	4 4	4 4	3 2	1 0	1 6	0	0 5	5	5	5	5	5	5					
29	10	9 9 9 3	4 4	4 4	4 4	3 2	0 6	0 4	0	0 9	9	9	9	9	9	9					
29	13	9 9 9 1	4 6	4 6	4 5	3 1	2 4	0 8	0	0 6	6	6	6	6	6	6					
29	16	9 9 9 8	4 5	4 5	4 5	3 1	2 2	0 8	0	0 6	6	6	6	6	6	6					
29	19	9 9 8 6	4 5	4 5	4 5	3 1	2 2	0 8	0	0 6	6	6	6	6	6	6		</td			

RESULTS OF SURFACE OBSERVATIONS AT														MACQUARIE ISLAND FOR THE MONTH OF MARCH 1951													
DAY	HOUR	STATION LEVEL PRESSURE	WIND		DEW POINT	DIRECTION	SPEED	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	LOW CLOUD			CLOUD DIRECTION			PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE				
			DRY BULB	WET BULB									vv	Oktas	w	W	Oktas	C _L	h	C _M	C _H	CL	CM	CH	DIRECTION	SPEED	
5 1	0 1	0 0 5 0	4 2	4 1	4 0	2 6	1 2	8 1	0	0 2	6 0	0 0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	0 4	0 0 6 2	4 2	4 2	4 1	2 7	1 5	8 1	0	0 1	6 0	0 0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	
5 1	0 7	0 0 7 7	4 3	4 2	4 2	2 8	1 4	8 0	0	0 1	6 0	0 0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	
5 1	1 0	0 0 9 4	4 5	4 3	4 1	2 7	1 4	8 1	0	0 3	6 1	0 3	8	5	0	0	0	0	0	0	0	0	0	0	0	0	
5 1	1 3	0 0 9 7	4 5	4 4	4 3	2 9	1 0	8 1	0	0 3	6 1	0 3	8	5	0	0	0	0	0	0	0	0	0	0	0	0	
5 1	1 6	0 1 0 1	4 4	4 4	4 4	2 7	0 9	8 0	0	0 5	6 2	0 2	8	7	0	0	0	0	0	0	0	0	0	0	0	0	
5 1	1 9	0 1 0 5	4 5	4 5	4 2	3 1	0 9	8 1	0	0 1	6 2	0 0	8	5	0	0	0	0	0	0	0	0	0	0	0	0	
5 1	2 2	0 0 9 5	4 5	4 5	4 3	3 2	0 9	8 0	0	0 3	6 2	0 0	8	5	0	0	0	0	0	0	0	0	0	0	0	0	

		RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF APRIL 1951																										
DAY	HOUR	STATION ELEVATION PRESSURE		DRY BULB		WET BULB		DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD		CLOUD DIRECTION		MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION		ANEMOMETER		MAXIMUM GUST		SUNSHINE	
		Mts.	"F	"F	"F	"x10	Kts.		VV	"F		Oktas	WW	W	Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.
01	0 1	0 0 6 3	4 3	4 3	4 3	3 2	1 2	0 2	B	6 1	6	8	6	1														
01	0 4	0 0 3 0	4 5	4 5	4 5	3 1	2 5	0 2	B	5 3	5	8	6	1														
01	0 7	0 0 2 7	4 6	4 6	4 6	3 1	2 4	0 2	B	0 2	5	8	6	3														
10	0 0 3 7	4 6	4 6	4 6	3 0	2 3	0 3	9	4 7	5 0	4	9	0															
01	1 3	0 0 4 3	4 5	4 5	4 5	3 0	1 7	0 2	9	5 0	4	9	0															
01	1 6	0 0 4 9	4 5	4 5	4 5	3 1	1 3	0 2	9	5 1	5	9	0															
01	1 9	0 0 5 6	4 5	4 5	4 4	3 1	1 6	0 0	9	5 1	5	9	0															
01	2 2	0 0 4 6	4 5	4 5	4 5	3 2	1 7	6 4	7	2 8	5	1	6	3	7	6	7	7	9	4 7	4 2	0 0 0 6	6 6 9	3 0	3 2	0 0 0		
02	0 1	0 0 2 0	4 5	4 5	4 5	3 2	2 1	0 2	8	6 1	6	8	6	1														
02	0 4	0 0 0 6	4 5	4 5	4 5	3 2	2 2	4 0	8	0 1	6	6	5	6	1													
02	0 7	0 0 0 1	4 5	4 5	4 4	3 2	1 9	4 8	7	0 5	2	6	6	2	3	8	7	9										
02	1 0	9 9 9 0	4 5	4 5	4 5	3 3	1 9	5 6	8	6 0	6	2	6	3	7													
02	1 3	9 9 7 4	4 5	4 4	4 4	3 3	1 8	5 6	8	0 2	2	2	6	4	7													
02	1 6	9 9 5 9	4 5	4 4	4 3	3 3	1 9	4 0	8	6 0	6	2	6	2	2													
02	1 9	9 9 4 5	4 6	4 5	4 5	3 4	2 4	4 0	8	6 0	6	1	6	2	2													
02	2 2	9 9 3 0	4 5	4 4	4 4	3 4	2 5	1 6	8	5 3	6	8	6	2														
03	0 1	9 9 1 0	4 4	4 4	4 4	3 3	1 7	0 8	8	5 3	5	8	6	2														
03	0 4	9 8 9 7	4 5	4 5	4 4	3 4	1 7	0 6	8	5 1	5	8	6	2														
03	0 7	9 9 0 0	4 5	4 5	4 5	3 4	1 5	0 6	8	5 1	6	8	7	1														
03	1 0	9 9 0 5	4 4	4 4	4 4	3 2	1 1	0 7	8	5 3	6	8	0	2														
03	1 3	9 9 1 0	4 2	4 2	4 2	1 6	1 0	1 6	8	6 1	6	8	0	3	2													
03	1 6	9 9 2 0	4 2	4 1	4 1	1 5	1 0	3 2	8	6 1	6	2	5	3	3	0												
03	1 9	9 9 4 0	4 1	4 0	3 9	1 5	1 0	6 4	7	0 1	6	6	2	0	0	9	3	0										
04	0 1	9 9 7 9	3 9	3 7	3 3	1 5	0 2	8 2	1	0 2	0	1	1	5	5	0	0	0										
04	0 4	9 9 7 9	4 0	3 8	3 5	1 3	1 7	8 2	7	0 5	1	2	5	5	7	0	4	4	7									
04	0 7	9 9 9 0	3 9	3 8	3 6	1 3	2 1	8 1	7	0 2	2	3	5	5	7	0	4	4	7									
04	1 0	9 9 9 3	4 0	3 8	3 6	1 2	1 9	8 1	8	0 3	2	4	5	5	7	0	4	4	7									
04	1 3	9 9 8 0	4 1	3 9	3 7	1 2	2 2	8 1	7	0 1	6	6	5	5	3	0	0	0										
04	1 6	9 9 8 0	4 0	4 0	3 9	1 2	1 7	0 6	8	5 3	5	8	6	1	3	0	0	0										
04	1 9	9 9 8 4	4 1	4 1	4 1	1 0	0 3	0 4	9	5 1	5	9	0															
04	2 2	9 8 8 5	4 1	4 1	4 1	0 0	0 0	0 1	0	4 4	4	4	0	0	0													
05	0 1	9 9 7 8	4 2	4 2	4 1	0 0	0 0	0 1	9	6 1	6	4	9	0														
05	0 4	9 9 7 0	4 3	4 3	4 2	0 0	0 0	0 6	8	6 1	6	8	6	1														
05	0 7	9 9 7 4	4 3	4 3	4 2	0 0	0 0	0 0	2	4	5	5	5	7	0	0	0	0	0									
05	1 0	9 9 7 8	4 4	4 4	4 4	0 0	0 0	0 0	9	4 7	4	9	0															
05	1 3	9 9 7 3	4 5	4 5	4 5	0 0	0 0	0 0	8	5 1	5	8	6	0														
05	1 6	9 9 7 0	4 6	4 5	4 5	0 0	0 0	0 0	8	5 1	5	8	6	1														
05	1 9	9 9 7 7	4 5	4 5	4 3	1 4	0 3	0 8	8	5 1	5	8	6	1														
05	2 2	9 9 7 2	4 5	4 3	4 3	0 0	0 0	0 1	9	4 5	4	9	0															
06	0 1	9 9 5 9	4 5	4 5	4 3	3 4	0 1	0 6	8	2 8	4	8	6	1														
06	0 4	9 9 4 3	4 3	4 3	4 3	2 7	0 1	0 0	9	4 5	6	9	0															
06	0 7	9 9 4 1	4 2	4 2	4 2	2 8	0 2	0 8	2	4 2	5	1	5	5	0	0	0	9	7									
06	1 0	9 9 4 2	4 0	4 0	4 0	2 8	0 9	0 2	9	4 3	4	9	0															
06	1 3	9 9 3 0	4 2	4 1	4 0	2 9	1 4	8 1	7	0 3	4	7	5	4	4	8	6	9	9									
06	1 6	9 9 2 2	4 3	4 2	4 2	3 0	1 6	8 0	7	0 2	2	7	5	4	0	0	0	7	5									
06	1 9	9 9 2 8	4 2	4 1	4 0	2 8	1 7	6 4	7	2 5	6	2	5	5	3	0	0	0	6									
06	2 2	9 9 5 0	4 1	3 8	3 5	2 6	1 6	8 0	2	2 5	8	2	8	5	0	0	0	6	6									
07	0 1	9 9 7 5	4 1	3 8	3 3	2 6	2 3	8 2	1	0 2	1	1	8	5	0	0	0	6	6									
07	0 4	9 9 8 8	4 1	3 9	3 5	2 6	2 1	8 2	1	0 2	0	1	5	5	0	0	0	6	6									
07	0 7	0 0 0 5	4 0	3 9	3 7	2 6	1 7	0 8	5 1	5	8	6	2	2	7	7												
07	1 0	0 0 3 0	4 2	4 1	3 9	2 8	1 5	6 4	8	0 2	2	8	8	4	3	8	6	6	6									
07	1 3	0 0 3 7	4 3	4 0	3 5	2 7	1 7	8 1	7	0 3	2	5	8	5	0	0	0	6	6									
07	1 6	0 0 4 9	4 1	3 9	3 6	2 7	1 2	8 1	7	1 5	8	7	8	5	0	0	0	6	6									
07	1 9	0 0 4 5	4 2	4 0	3 7	2 9	1 0	8 1	1	0 1	0	1	5	6	0	0	0	6	6									
07	2 2	0 0 5 8	4 2	4 1	3 9	2 9	1 0	8 1	2	0 2	1	2	5	6	0	0	0	9	7									
08	0 1	0 0 6 0	4 3	4 2	4 1	3 1																						

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF**

**MACQUARIE ISLAND
APRIL 1951**

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	LOW CLOUD	MIDDLE CLOUD	HIGH CLOUD	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE			
						DIRECTION	SPEED *x10	Kts.	VV	Oklas	ww	W	Oklas	C _L	h	C _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	*x10	Kts.		
		LST.	Mbs.	"F	"F	"F	"F	"F																				
11	1	9 9 3 5	4 7	4 5	4 5	6	3	2 3	4 0	8	1 6	2	7	7	4	2	8	9										
11	4	9 9 1 0	4 6	4 5	4 5	5	3	2 4	3 2	8	5 0	6	8	6	6	0	8	8	8	8								
11	7	9 9 0 0	4 5	4 5	4 5	3	2	2 0	0 5	8	5 3	6	6	6	6	0	7	7	7	7								
11	10	9 9 3 5	4 4	4 4	4 3	3	0	1 7	5 2	8	2 0	6	6	6	6	3	2	6	6	7								
11	13	9 9 6 7	4 5	4 1	3 9	2 5	1 6	6 4	7	0 2	2	6	5	5	5	0	2	6	6	7								
11	16	9 9 0 5	4 2	3 9	3 4	2 5	1 2	8 1	7	0 3	2	2	2	8	5	1	1	6	7	9								
11	19	9 9 4 5	4 0	3 6	3 1	2 6	1 4	8 1	3	0 1	2	1	1	5	5	5	0	6	6	7								
11	22	9 9 6 8	3 9	3 5	3 1	2 6	1 2	8 1	1	0 2	0	1	5	5	5	0	6	6	7	9								
12	1	9 9 9 3	3 9	3 5	2 9	2 6	1 4	8 1	1	0 2	0	1	5	5	5	0	6	6	7	9								
12	4	9 9 1 3	3 8	3 4	2 7	2 5	0 9	8 1	7	0 3	0	0	7	5	5	5	0	6	6	7	9							
12	7	9 9 1 3	3 7	3 3	2 5	0 0	0 0	8 2	4	0 1	2	1	1	5	5	5	0	6	6	7	9							
12	10	9 9 4 9	4 1	3 5	2 5	0 0	0 0	8 2	0	0 2	0	0	0	9	0	0	0	6	6	7	9							
12	13	9 9 1 3	4 1	3 5	2 6	0 1	0 3	8 2	1	0 2	0	0	0	9	3	3	8	6	7	9								
12	16	9 9 1 2	4 0	3 7	3 2	3 6	0 4	8 1	6	0 3	2	1	1	5	5	5	0	6	7	7	7							
12	19	9 9 1 0	4 0	3 8	3 5	3 3	1 2	8 1	1	0 2	0	1	5	5	5	0	6	7	7	9								
12	22	9 9 6 0	4 1	4 0	4 0	0 9	0 2	8 0	8	6 1	6	6	6	6	6	6	0	6	6	7	9							
13	1	9 9 3 2	4 1	4 1	4 1	1 2	1 0	8 0	6	6 5	6	6	6	6	6	6	0	6	6	7	9							
13	4	9 9 7 8	4 2	4 2	4 2	1 5	0 2	8 2	8	6 5	6	6	6	6	6	6	0	6	6	7	9							
13	7	9 9 0 0	4 5	4 5	4 5	2 8	0 5	8 6	8	6 5	6	6	6	6	6	6	0	6	6	7	9							
13	10	9 9 4 7	4 5	4 5	4 4	2 9	1 5	8 2	8	5 3	6	6	6	6	6	6	0	6	6	7	9							
13	13	9 9 5 6	4 5	4 5	4 4	2 8	0 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
13	16	9 9 4 3	4 5	4 5	4 4	2 8	1 6	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
13	19	9 9 5 2	4 3	3 9	3 9	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
13	22	9 9 8 5	4 3	3 9	3 7	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
14	1	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
14	4	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
14	7	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
14	10	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
14	13	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
14	16	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
14	19	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
14	22	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
15	1	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
15	4	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
15	7	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
15	10	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
15	13	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
15	16	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
15	19	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
15	22	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
16	1	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
16	4	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
16	7	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
16	10	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
16	13	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
16	16	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
16	19	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
16	22	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
17	1	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
17	4	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
17	7	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							
17	10	9 9 8 5	4 1	4 1	4 1	1 7	2 4	8 1	8	6 1	5	5	5	5	5	5	0	6	6	7	9							

**RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF APRIL 1951**

DAY		FOR THE MONTH OF APRIL 1951												MAXIMUM GUST																		
STATION	LEVEL PRESSURE	DRY BULB		WET BULB		DEW POINT		WIND		VISIBILITY		TOTAL CLOUD		PRESENT WEATHER		PAST WEATHER		CLOUD DIRECTION		CLOUD		MAXIMUM TEMPERATURE		MINIMUM TEMPERATURE		PRECIPITATION		ANEMOMETER		MAXIMUM GUST		
LST.	Mbs.	"F	"F	"F	"F	"x10	Kts.	VV	Oklas	ww	W	Oklas	C _L	h	C _M	C _H	CL	C _M	C _H	LOW	MIDDLE	HIGH	"F	"F	Points	Miles	"x10	Kts.	Hours	SUNSHINE		
21	0 1	9 9 0 8	4 3	4 2	4 1	3 6	0 4	8 1	4	0 2	0	0	1	6	3	0	1	8	5	9	0	1	8	6	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5		
21	0 4	9 8 9 2	4 3	4 3	4 2	3 6	0 6	8 1	5	0 3	0	1	7	5	3	0	0	0	1	8	1	1	8	9	9	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5	
21	0 7	9 8 8 2	4 3	4 4	4 4	3 6	1 0	8 0	7	0 5	2	7	5	3	7	5	9	9	9	6	1	1	1	9	9	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5	
21	1 0	9 8 6 8	4 6	4 6	4 5	0 1	0 4	6 4	5	1 8	2	1	5	5	3	7	5	9	9	9	6	1	1	1	9	9	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
21	1 3	9 8 4 5	4 6	4 4	4 2	3 6	0 5	5 6	7	6 0	2	1	5	5	3	7	5	9	9	9	6	1	1	1	9	9	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
21	1 6	9 8 2 4	4 5	4 5	4 4	0 3	0 3	3 1	0 1	2	9	5 3	6	9	0	0	0	0	0	0	5	5	9	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5	
21	1 9	9 8 2 3	4 0	4 0	4 0	1 9	0 3	1 6	8	6 0	6	2	6	6	3	2	5	5	9	8	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5	
21	2 2	9 8 2 3	3 8	3 8	3 7	2 1	0 3	1 6	8	5 0	5	2	8	8	5	4	1	4	9	9	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5	
22	0 1	9 8 2 3	3 8	3 8	3 7	3 5	1 9	0 6	6 4	8	0 2	2	8	8	5	4	1	4	9	9	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5	
22	0 4	9 8 2 9	3 8	3 8	3 7	3 5	1 9	0 6	6 4	8	0 2	2	8	8	5	4	1	4	9	9	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5	
22	0 7	9 8 3 8	3 8	3 8	3 7	3 3	1 7	0 3	8 0	8	0 2	2	8	8	5	4	1	4	9	9	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5	
22	1 0	9 8 4 6	3 8	3 8	3 7	3 2	1 8	0 2	8 1	8	0 2	2	8	8	5	4	1	4	9	9	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5	
22	1 3	9 8 4 4	3 9	3 9	3 7	3 2	2 4	0 4	8 1	8	0 2	2	8	8	5	4	1	4	9	9	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5	
22	1 6	9 8 4 5	3 9	3 7	3 5	1 8	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	1 9	9 8 5 2	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	2 2	9 8 5 2	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	2 5	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	2 8	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	3 1	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	3 4	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	3 7	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	4 0	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	4 3	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	4 6	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	4 9	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	5 2	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	5 5	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	5 8	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	6 1	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	6 4	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	6 7	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	7 0	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	7 3	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	7 6	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	7 9	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	8 2	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	8 5	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	8 8	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	9 1	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	9 4	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	9 7	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	10	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	13	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	16	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0 1	2 3 3	3 3	3 0	0 1 5
22	19	9 8 5 3	3 8	3 8	3 7	3 5	1 6	0 3	8 1	7	0 1	2	0	0	0	0	0	0	0	5	5	8	8	8	8	8	0	0 0 0				

**RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF MAY 1951**

DAY	HOUR	FOR THE MONTH OF MAY																		MAXIMUM GUST												
		STATION LEVEL PRESSURE		DRY BULB		WET BULB		DEW POINT		WIND		VISIBILITY		TOTAL CLOUD		PRESENT WEATHER		PAST WEATHER		LOW CLOUD		CLOUD DIRECTION		HIGH TEMPERATURE		MINIMUM TEMPERATURE		PRECIPITATION		ANEMOMETER		DIRECTION
LST.	Mts.	"F	"F	"F	"F	"x10	Kts.	VV	Oktas	ww	W	Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	Low	Middle	High	Maximum	Minimum	Points	Miles	*x10	Kts.	Hours	SUNSHINE		
01	0 1	0 0 4 1	3 9	3 7	3 5	2 9	1 4	8 1	1	0 2	8	1	5	5	4	9	2	2	2	6	7	7	4 2	3 9	0 0 2 9	6 3 7	2 7	4 4	0 1 8			
01	0 4	0 0 4 1	3 9	3 8	3 6	3 3	1 7	5 4	8	6 1	6	0	7	7	6	0	7	7	2	8	8	6	6	6	6	6	6	6	6			
01	0 7	0 9 6 8	4 1	4 1	4 1	3 4	1 6	3 2	8	6 1	6	0	7	7	6	0	7	7	2	8	8	6	6	6	6	6	6	6	6			
01	1 0	0 9 4 4	4 1	4 1	4 0	3 9	2 9	5 2	2 0	6 4	7	2 1	6	7	6	0	7	7	2	8	8	6	6	6	6	6	6	6	6			
01	1 3	0 9 5 5	4 1	3 9	3 9	3 5	2 7	3 0	6 4	7	2 5	8	7	7	6	0	7	7	2	8	8	6	6	6	6	6	6	6	6			
01	1 6	0 9 6 8	4 0	3 9	3 8	3 5	2 7	3 0	4 8	8	8 0	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8				
01	1 9	0 9 9 5	4 0	3 9	3 8	3 5	2 6	2 5	4 8	7	8 0	8	7	7	6	0	7	7	2	8	8	6	6	6	6	6	6	6	6			
01	2 2	0 9 9 4	4 0	3 9	3 8	3 0	1 1	4 0	8	5 1	8	3	5	5	4	9	2	2	2	7	7	7	4 2	3 9	0 0 2 9	6 3 7	2 7	4 4	0 1 8			
02	0 1	0 9 5 3	4 5	4 3	4 3	3 2	2 6	4 0	8	5 1	8	3	5	5	4	9	2	2	2	7	7	7	7	7	7	7	7	7	7			
02	0 4	0 9 1 4	4 4	4 4	4 4	3 1	3 0	2 4	8	5 5	6	6	7	7	6	5	4	2	2	7	7	9	6	6	6	6	6	6	6	6		
02	0 7	0 9 1 6	4 3	4 2	4 1	5 0	3 0	4 8	8	0 2	2 0	4 8	8	1 5	8	6	6	4	0	0	7	7	9	0	6	6	6	6	6	6		
02	1 0	0 9 2 3	4 2	4 1	4 0	3 0	2 2	5 4	6	6	2 5	8	8 1	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
02	1 3	0 9 1 4	4 2	4 1	3 9	3 0	2 4	5 0	8 0	2 5	8	8 1	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
02	1 6	0 9 9 1	4 0	3 9	3 8	2 7	3 0	4 8	8	8 0	8	7	7	6	5	4	4	4	4	8	8	6	6	6	6	6	6	6	6			
02	1 9	0 9 4 6	4 1	4 0	3 9	3 2	2 6	3 0	3 2	8 0	8	7	7	6	5	4	4	4	4	0	6	6	6	6	6	6	6	6	6			
03	0 1	0 9 8 0	4 1	3 9	3 7	2 5	2 3	3 2	3 2	8 0	8	7	7	6	5	4	4	4	4	0	6	6	6	6	6	6	6	6	6			
03	0 4	0 9 9 8	4 1	3 9	3 6	2 6	2 6	2 6	8 0	8	2 5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
03	0 7	0 0 0 6	4 2	4 2	4 2	2 8	2 5	4 0	8	0 2	5 5	6	1	5	5	5	5	5	5	7	6	6	6	6	6	6	6	6	6			
03	1 0	0 0 2 1	4 3	4 3	4 3	2 8	2 3	1 6	8	5 1	6	6	7	7	6	5	5	5	5	5	6	6	6	6	6	6	6	6	6			
03	1 3	0 0 2 0	4 3	4 2	4 1	2 7	2 5	4 0	7	0 5	5 5	5	7	7	6	5	5	5	5	5	6	6	6	6	6	6	6	6	6			
03	1 6	0 0 4 3	4 2	4 1	4 0	2 6	2 5	5 6	7	8 0	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
03	1 9	0 0 6 2	4 2	4 1	4 0	2 7	1 9	8 0	4	1 5	1	4	4	4	4	4	4	4	4	0	0	6	6	6	6	6	6	6	6			
04	0 1	0 0 6 3	4 2	4 1	4 0	2 8	1 9	8 0	4	7	0 3	2	2	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6			
04	0 4	0 0 2 7	4 3	4 3	4 3	2 9	1 6	2 4	8	8	5 9	6	6	7	7	6	5	5	5	5	6	6	6	6	6	6	6	6	6			
04	0 7	0 9 6 7	4 3	4 3	4 3	2 9	2 9	2 9	8	8	6 1	6	6	7	7	6	5	5	5	5	6	6	6	6	6	6	6	6	6			
04	1 0	0 0 5 6	4 2	4 0	3 9	3 8	2 4	3 0	6 4	6	6	2	1 8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
04	1 3	0 0 7 7	4 0	3 7	3 5	2 4	2 4	2 5	4 0	7	8 0	8	2 0	2	1 8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
04	1 6	0 0 1 0 2	4 0	3 7	3 1	2 5	2 5	2 5	8 0	8	6 0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
04	1 9	0 0 2 2	4 0	3 8	3 5	2 6	2 1	8 0	8	4 0	2	2	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5			
05	0 1	0 1 1 8	4 1	3 9	3 7	2 9	2 9	1 8	8 0	8	0 3	2	2	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6			
05	0 4	0 0 9 1	4 1	4 1	4 1	3 0	2 2	2 2	4 0	8	6 1	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
05	0 7	0 0 5 4	4 4	4 4	4 4	4 4	3 0	2 9	2 9	8 0	8	5 9	6	6	7	7	6	5	5	5	5	6	6	6	6	6	6	6	6			
05	1 0	0 0 5 8	4 5	4 4	4 4	4 4	2 9	2 9	2 9	8 0	8	2 6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
05	1 3	0 0 5 4	4 4	4 4	4 4	4 4	3 0	2 8	2 8	8 0	8	0 3	2	2	3	3	3	3	3	3	7	7	7	7	7	7	7	7	7			
05	1 6	0 0 4 1	4 4	4 4	4 4	4 4	3 1	2 9	2 9	4 0	8	0 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
05	1 9	0 0 4 5	4 4	4 4	4 4	4 4	3 0	2 8	2 8	4 0	8	0 3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
05	2 2	0 0 3 6	4 3	4 3	4 3	3 1	2 7	2 7	2 7	4 0	8	0 3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
06	0 1	0 0 1 6	4 5	4 5	4 5	4 5	3 1	2 7	2 7	4 0	8	0 4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
06	0 4	0 0 0 1	4 5	4 5	4 5	4 5	3 1	2 7	2 7	4 0	8	0 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
06	0 7	0 0 0 8 7	4 2	4 2	4 2	3 2	2 6	1 6	1 6	8 0	8	5 0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
07	0 1	0 0 9 1	4 7	4 7	4 7	3 2	3 2	3 2	3 2	8 0	8	0 8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
07	0 4	0 0 7 1	4 7	4 7	4 7	3 1	3 1	3 1	3 1	8 0	8	0 8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
07	0 7	0 0 5 7	4 4	4 3	4 2	3 2	1 5	4 0	4 0	8 0	8	2 0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
07	1 0	0 0 5 2	4 3	4 3	4 3	3 3	3 3	1 5	6 4	6	2	2 8	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
07	1 3	0 0 3 7	4 5	4 5	4 5	3 2	2 2	1 6	8 0	8	6 5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
08	0 1	0 0 2 3	4 5	4 5	4 5	3 1	2 5	1 6	8 0	8	5 0	5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
08	0 4	0 0 1 0	4 5	4 5	4 5	3 2	2 6	1 2	8 0	8	5 1	5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
08	0 7	0 0 0 1	4 6	4 6	4 6	3 1	3 2	1 6	8 0	8	5 0	5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
08	1 0	0 0 4 2	4 1	4 0	2 6	3 0	8 0	8	7 0	1	0 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
08	1 3	0 0 7 1	4 1	4 1	2 5	1 7	8 0	8	8 0	8	0 2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
08	1 6	0 0 8 1	4 0	3 9	3 8	2 6	1 4	8 1	8	8 0	8	0 3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
08	1 9	0 0 8 5	3 8	3 8	3 5	2 5	2 4	0 6																								

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF MAY 1951

DAY	HOUR	STATION LEVEL PRESSURE	WIND		DEW POINT	DIRECTION	SPEED	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD		CLOUD DIRECTION		MAXIMUM TEMPERATURE °F	MINIMUM TEMPERATURE °F	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE						
			DRY BULB °F	WET BULB °F								*x10 Kts.	VV	Oktas	WW	W	Oktas	C _L	h	CM	CH	CL	CM	CH	MILES	DIRECTION	SPEED	
LST.	Mbs.																											
11	0 1	9 9 6 4	4 5	4 5	4 5	3 1	2 9	3 2	8	6 1	6	3	7	7	4	2	2	0	7	9	9							
11	0 4	9 9 3 8	4 4	4 4	4 2	4 1	4 0	2 9	2 5	2 4	8	0 0	4	1 8	6	4	4	5	5	5	5	5						
11	0 7	9 9 4 8	4 5	4 2	4 1	4 1	2 9	3 7	8 0	8	0 0	4	1 8	6	4	4	5	5	5	5	5	5						
11	1 0	9 9 5 7	4 5	4 2	4 3	4 1	2 9	3 7	8 0	8	0 0	4	1 8	6	4	4	5	5	5	5	5	5						
11	1 3	9 9 6 1	4 5	4 3	3 9	3 2	2 7	3 8	8 0	7	1 8	6	2	7	7	5	5	5	5	5	5	5						
11	1 6	9 9 2 3	4 2	4 2	3 8	3 1	2 7	3 2	8 1	4	2	2	2	2	2	2	2	2	2	2	2	2						
11	1 9	9 9 2 2	4 3	4 1	3 9	3 0	2 8	8 0	3	0 2	2	2	2	2	2	2	2	2	2	2	2	2						
12	0 1	9 9 1 1	4 4	4 3	4 2	2 9	3 0	4 8	8	1 0	8	0 0	2	2	2	2	2	2	2	2	2	2						
12	0 4	9 9 0 4	4 4	4 3	4 2	2 9	3 0	4 8	8	1 0	8	0 0	2	2	2	2	2	2	2	2	2	2						
12	0 7	9 9 0 1	4 3	4 4	4 3	2 9	2 8	4 0	8	1 0	8	0 0	2	2	2	2	2	2	2	2	2	2						
12	1 0	9 9 9 8	4 4	4 4	4 3	5 0	3 1	4 8	8	1 0	8	0 0	2	2	2	2	2	2	2	2	2	2						
12	1 3	9 9 9 8	4 4	4 4	4 3	5 0	3 1	4 8	8	1 5	2 2	2 2	2	2	2	2	2	2	2	2	2	2						
12	1 6	9 9 2 5	4 5	4 5	4 5	5 0	3 1	4 8	8	1 5	2 2	2 2	2	2	2	2	2	2	2	2	2	2						
12	1 9	9 9 2 5	4 5	4 5	4 5	5 0	3 1	4 8	8	1 5	2 2	2 2	2	2	2	2	2	2	2	2	2	2						
13	0 1	9 9 1 6	4 5	4 5	4 5	5 0	3 1	4 8	8	1 5	2 2	2 2	2	2	2	2	2	2	2	2	2	2						
13	0 4	9 9 1 6	4 5	4 5	4 5	5 0	3 1	4 8	8	1 5	2 2	2 2	2	2	2	2	2	2	2	2	2	2						
13	0 7	9 9 1 6	4 5	4 5	4 5	5 0	3 1	4 8	8	1 5	2 2	2 2	2	2	2	2	2	2	2	2	2	2						
13	1 0	9 9 4 3	4 5	4 5	4 5	5 0	3 1	4 8	8	1 5	2 2	2 2	2	2	2	2	2	2	2	2	2	2						
13	1 3	9 9 3 8	4 2	3 8	2 9	2 9	1 2	9 2	6	1 5	2 2	2 2	2	2	2	2	2	2	2	2	2	2						
13	1 6	9 9 4 2	3 9	3 8	3 6	3 6	3 2	9 1	7	0 2	2 2	2 2	2	2	2	2	2	2	2	2	2	2						
13	1 9	9 9 5 9	4 0	3 8	3 6	3 5	3 4	2 2	8 0	0 3	2 2	2 2	2	2	2	2	2	2	2	2	2	2						
13	2 2	9 9 7 5	4 1	3 8	3 7	3 7	3 5	2 4	8 0	0 3	2 2	2 2	2	2	2	2	2	2	2	2	2	2						
14	0 1	9 7 6 4	4 3	4 3	3 9	3 9	2 5	2 5	8 0	8 1	2 2	2 2	2	2	2	2	2	2	2	2	2	2						
14	0 4	9 7 3 1	4 3	4 2	4 2	3 0	2 6	4 0	8	6 1	6	6	6	6	6	6	6	6	6	6	6	6						
14	0 7	9 7 1 9	4 1	4 0	3 9	3 1	3 1	2 4	8 1	6 1	6	6	6	6	6	6	6	6	6	6	6	6						
14	1 0	9 7 1 4	4 1	4 0	3 9	3 0	3 0	4 0	8	7 2	6	6	6	6	6	6	6	6	6	6	6	6						
14	1 3	9 5 9 4	4 3	3 4	3 0	3 0	2 7	3 0	8 0	7 2	5	5	5	5	5	5	5	5	5	5	5	5						
14	1 6	9 5 9 4	3 8	3 4	3 0	3 0	2 7	2 9	4 2	4 0	5 1	3	2	2	2	2	2	2	2	2	2	2						
14	1 9	9 5 9 8	3 8	3 7	3 7	3 0	2 5	2 4	4 2	4 0	6 0	6	4	4	4	4	4	4	4	4	4	4						
14	2 2	9 5 9 8	3 8	3 7	3 7	3 0	2 5	2 4	4 2	4 0	6 0	6	4	4	4	4	4	4	4	4	4	4						
15	0 1	9 5 0 1	5 3	5 3	5 3	5 1	3 1	2 5	3 2	3 2	3 2	3	2	2	2	2	2	2	2	2	2	2						
15	0 4	9 5 0 0	5 3	5 3	5 3	5 1	3 1	2 5	3 2	3 2	3 2	3	2	2	2	2	2	2	2	2	2	2						
15	0 7	9 5 0 0	5 3	5 3	5 3	5 1	3 1	2 5	3 2	3 2	3 2	3	2	2	2	2	2	2	2	2	2	2						
15	1 0	9 5 0 1	5 3	5 3	5 3	5 1	3 1	2 5	3 2	3 2	3 2	3	2	2	2	2	2	2	2	2	2	2						
15	1 3	9 5 0 1	5 3	5 3	5 3	5 1	3 1	2 5	3 2	3 2	3 2	3	2	2	2	2	2	2	2	2	2	2						
15	1 6	9 5 0 1	5 3	5 3	5 3	5 1	3 1	2 5	3 2	3 2	3 2	3	2	2	2	2	2	2	2	2	2	2						
15	1 9	9 5 0 1	5 3	5 3	5 3	5 1	3 1	2 5	3 2	3 2	3 2	3	2	2	2	2	2	2	2	2	2	2						
15	2 2	9 5 0 1	5 3	5 3	5 3	5 1	3 1	2 5	3 2	3 2	3 2	3	2	2	2	2	2	2	2	2	2	2						
16	0 1	9 7 1 4	3 0	3 0	2 8	2 8	2 8	2 8	8 0	8 0	7 2	7	6	6	6	6	6	6	6	6	6	6						
16	0 4	9 7 1 4	3 0	3 0	2 8	2 8	2 8	2 8	8 0	8 0	7 2	7	6	6	6	6	6	6	6	6	6	6						
16	0 7	9 7 1 4	3 0	3 0	2 8	2 8	2 8	2 8	8 0	8 0	7 2	7	6	6	6	6	6	6	6	6	6	6						
16	1 0	9 7 1 4	3 0	3 0	2 8	2 8	2 8	2 8	8 0	8 0	7 2	7	6	6	6	6	6	6	6	6	6	6						
16	1 3	9 7 1 4	3 0	3 0	2 8	2 8	2 8	2 8	8 0	8 0	7 2	7	6	6	6	6	6	6	6	6	6	6						
16	1 6	9 7 1 4	3 0	3 0	2 8	2 8	2 8	2 8	8 0	8 0	7 2	7	6	6	6	6	6	6	6	6	6	6						
16	1 9	9 7 1 4	3 0	3 0	2 8	2 8	2 8	2 8	8 0	8 0	7 2	7	6	6	6	6	6	6	6	6	6	6						
16	2 2	9 7 1 4	3 0	3 0	2 8	2 8	2 8	2 8	8 0	8 0	7 2	7	6	6	6	6	6	6	6	6	6	6						
17	0 1	9 9 6 1	3 4	3 6	3 8	3 8	2 3	1 7	6 4	6	2 5	2 5	8	8	4	3	0	5	9									
17	0 4	9 9 6 3	3 4	3 6	3 8	3 8	2 5	2 1	3 2	3 2	7	8 0	4	3	0	5	9											
17	0 7	9 9 6 9	3 1	3 7	3 7	3 7	2 5	2 2	6 4	6	2 5	2 5	8	8	4	3	0	5	9									
17	1 0	9 9 9 1	4 0	4 0	4 0	4 0	2 2	1 9	6 4	6	0 3	4	4	7	5	0	6	6	6	6	6	6						
17	1 3	0 0 1 2	4 1	3 7	3 3	3 3	2 4	2 4	2 4	4 0	7	1 5	5	2	5	0	6	6	6	6	6	6						
17	1 6	0 0 1 8	3 9	3 6	3 6	3 1	2 3	1 8	6 4	6	2 5	2 5	8	8	5	7	4	4	4	4	4	4						
17	1 9	0 0 3 5	3 8	3 5	3 0	2 3	2 0	8 0	8 0	2 2	2																	

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF														MACQUARIE ISLAND 1951									
DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	AMOUNT	TYPE	HEIGHT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE
						DIRECTION	SPEED							LOW	CLOUD	MIDDLE	HIGH				DIRECTION	SPEED	
LST.	Mbs.	"F	"F	"F	"x10	Kts.	VV	Oktas	vv	W	Oktas	C _L	h	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.	Hours	
1	0 1	0 2 4 8	3 0	3 4	3 2	2 1	0 7	4 8	6	1 0	2	3	6	4	3	6	9	9	9	3 5 9	2 6	1 7	0 3 1
1	0 4	0 2 4 8	3 9	3 4	3 2	2 1	0 2	2 4	5	1 0	2	6	6	4	0	6	9	9	9				
1	1 0	0 2 5 1	3 5	3 4	3 2	2 2	0 3	8 0	5	0 2	1	4	7	4	7	1	6	9	9				
1	1 3	0 2 5 6	3 5	3 4	3 2	2 4	0 5	8 1	7	0 2	2	4	6	4	3	1	6	9	9				
1	1 7	0 2 4 7	3 7	3 5	3 2	2 2	0 4	8 1	2	0 1	1	2	6	4	0	0	6	9	9				
1	1 6	0 2 4 3	3 5	3 3	2 9	2 5	0 9	8 1	7	0 3	1	7	6	5	7	7	7	7	7				
1	2 3	0 2 3 5	3 6	3 4	3 0	2 4	1 0	8 0	7	0 2	2	7	6	5	7	7	7	7	7				
1	2 2	0 2 2 2	3 9	3 6	3 1	2 6	1 4	8 0	8	0 2	2	8	8	5	7	7	7	7	7				
2	0 1	0 2 0 6	3 9	3 7	3 4	2 6	1 5	8 0	8	0 2	2	8	8	5	7	7	7	7	7				
2	0 4	0 1 8 7	4 0	4 0	4 0	2 6	1 5	8 0	8	5 0	5	8	7	3	7	7	7	7	7				
1	0 0	0 1 7 0	4 1	4 1	4 1	2 7	1 5	0 8	8	5 0	5	8	7	2	7	7	7	7	7				
1	0 0	0 1 7 0	4 2	4 2	4 2	2 6	1 0	1 0	8	1 0	5	8	6	2	7	7	7	7	7				
1	3	0 1 6 4	4 0	4 0	4 0	2 4	1 5	0 8	8	5 5	5	8	6	2	7	7	7	7	7				
2	2	0 1 7 2	4 0	3 9	3 8	2 3	1 6	1 6	5 4	5	8	6	3	6	9	9	9	9	9				
2	9	0 1 9 6	3 8	3 7	3 6	1 8	0 8	6 4	6	2 0	5	6	8	4	0	0	6	6	6				
2	2	0 2 0 7	3 7	3 6	3 5	2 3	0 4	1 6	7	5 0	5	7	5	4	0	0	4	4	4				
2	3	0 1 2 0	3 6	3 5	3 4	1 8	0 2	6 4	5	1 6	5	5	5	4	0	0	4	4	4				
2	3	0 4 2 4	3 6	3 5	3 4	1 4	0 2	4 0	6	5 0	5	6	6	4	0	0	4	4	4				
2	3	1 0	0 2 4 5	3 6	3 5	3 6	1 2	0 8	4 0	7	5 2	5	6	4	4	4	4	4	4				
2	3	1 3	0 2 4 0	3 6	3 5	3 6	1 0	0 2	8 0	7	2 0	5	6	2	0	6	3	6	6				
2	3	1 6	0 2 4 1	3 5	3 5	3 5	1 3	0 2	8 0	7	5 0	5	6	2	0	6	3	6	6				
2	3	1 9	0 2 4 4	3 4	3 4	3 4	1 3	0 2	8 0	7	2 0	5	3	6	2	0	6	3	6				
2	5	2 2	0 2 4 1	3 4	3 3	3 1	0 0	0 0	4 0	5	0 2	5	2	5	4	0	0	8	3	3			
2	4	0 1 2 3	3 4	3 4	3 4	0 0	0 0	0 6	6	4 1	4	6	6	2	0	0	9	9	9				
2	4	0 7	0 2 2 9	3 5	3 5	3 5	3 4	0 2	1 6	8	4 1	4	6	6	2	0	0	9	9	9			
2	4	1 0	0 2 3 9	3 6	3 5	3 6	2 7	0 1	2 4	6	1 0	4	6	6	4	0	0	7	7	7			
2	4	1 3	0 2 1 6	3 8	3 7	3 5	3 1	0 4	3 2	6	1 0	5	6	4	4	0	0	7	7	7			
2	4	1 6	0 2 1 7	3 7	3 7	3 7	3 1	0 6	4 0	7	1 0	5	7	5	2	0	0	7	7	7			
2	4	1 9	0 2 1 2	3 7	3 7	3 7	3 1	0 4	3 2	8	1 0	5	8	6	3	7	7	7	7	7			
2	4	2 2	0 2 1 0	3 9	3 8	3 8	3 1	0 0	0 0	8	6	8	1 0	5	8	6	3	7	7	7			
2	5	0 1	0 1 9 5	3 9	3 9	3 9	3 2	0 5	0 2	8	5 1	5	8	6	1	7	7	7	7	7			
2	5	0 4	0 1 7 9	3 9	3 9	3 9	3 5	0 0	0 0	6	6	4 1	5	8	6	1	7	7	7	7			
2	5	0 7	0 1 7 5	3 8	3 8	3 8	3 3	0 8	0 2	8	4 1	5	8	6	1	7	7	7	7	7			
2	5	1 0	0 1 5 5	4 0	4 0	4 0	3 1	0 4	3 2	7	4 1	4	6	6	2	7	7	7	7	7			
2	5	1 3	0 1 3 4	4 1	4 0	3 9	3 1	0 6	4 0	7	1 0	5	7	5	2	7	7	7	7	7			
2	5	1 6	0 1 0 3	4 2	4 1	4 0	3 4	0 4	3 2	7	0 2	2	7	5	4	0	0	7	7	7			
2	5	1 9	0 0 8 1	4 2	4 1	4 0	3 4	0 5	3 2	4	0 1	2	4	5	4	0	0	8	3	3			
2	5	2 2	0 0 5 5	4 2	4 1	4 0	3 6	0 2	8 2	7	0 3	2	7	6	4	0	0	8	3	3			
2	6	0 1	0 0 2 5	4 3	4 2	4 1	3 6	0 6	2 4	8	5 3	2	8	6	3	7	7	7	7	7			
2	6	0 4	9 9 9 4	4 1	4 0	5 9	3 0	1 5	1 6	8	6 3	6	8	7	3	7	7	7	7	7			
2	6	0 7	9 9 7 8	4 4	4 3	4 2	3 0	1 7	4 0	8	1 5	6	8	7	3	7	7	7	7	7			
2	6	1 0	9 9 6 5	4 3	4 2	4 1	0 0	0 0	3 2	8	2 1	6	8	7	3	7	7	7	7	7			
2	6	1 3	9 9 2 9	4 3	4 5	4 3	0 4	0 2	1 6	8	4 1	5	8	6	1	7	7	7	7	7			
2	6	1 6	9 9 1 5	4 1	4 1	4 1	0 0	0 0	2 2	9	4 5	4	9	5	0	0	9	9	9	9			
2	6	1 9	9 9 0 1	4 4	4 4	4 4	3 2	1 4	1 6	8	4 2	4	8	6	2	7	7	7	7	7			
2	6	2 2	9 0 8 7	4 4	4 4	4 4	3 2	1 9	0 4	8	4 3	4	8	6	1	7	7	7	7	7			
2	7	0 1	9 8 5 4	4 5	4 5	4 5	2 9	1 9	0 4	8	5 0	5	8	6	0	0	9	9	9	9			
2	7	0 4	9 8 4 2	4 4	4 4	4 4	3 1	2 0	0 0	9	4 5	4	9	5	0	0	9	9	9	9			
2	7	0 7	9 8 2 3	4 3	4 3	4 3	2 0	0 0	9	4 5	4	9	5	0	0	9	9	9	9	9			
2	7	1 0	9 8 0 9	4 2	4 2	4 2	3 1	1 6	0 2	9	4 3	4	9	5	0	0	9	9	9	9			
2	7	1 3	9 7 9 3	4 5	4 5	4 3	3 3	1 7	0 4	8	4 2	4	8	6	2	3	7	7	7	7			
2	7	1 6	9 7 9 5	4 5	4 5	4 2	4 1	3 0	1 3	2 0	8	1 0	2	7	6	2	3	7	7	7			
2	7	1 9	9 7 9 8	4 5	4 5	4 2	4 1	3 0	1 6	3 2	8	0 2	1	2	6	4	0	0	6	6			
2	7	2 2	9 7 8 6	4 5	4 5	4 2	4 1	3 0	1 4	8 0	2 0	1 1	1	6	6	4	0	0	6	6			
2	8	0 1	9 7 7 6	4 1	3 9	3 6	2 9	1 5	8 0	2	0 1	2	2	5	5	0	0	7	7	7			
2	8	0 7	9 7 7 3	4 1	3 9	3 6	2 9	2 0	8 0	7	8 4	5	7	2	2	5	5	0	0	7			
2	8	1 0	9 8 8 9	3 9	3 8	3 7	2 7	2 5	6 4	7	8 0	5	6	2	2	5	5	0	0	7			
2	8	1 3	9 8 9 6	3 9	3 8	3 7	2 2	1 5	4 8	7	6 0	6	7	4	5	0	0	6	6	6			
2	8	1 6	9 8 9 0	3 9	3 9	3 9	3 0	2 3	1 2	6 4	6	8 5	5	6	8	5</							

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF**

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF JUNE 1951																														
DAY	HOUR	STATION PRESSURE	WIND			DEW POINT	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	CLOUD DIRECTION			HEIGHT	LOW CLOUD	MIDDLE CLOUD	HIGH CLOUD	CLOUD TYPE	LOW	MIDDLE	HIGH	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE	
			DRY BULB	WET BULB	*x10 Kts.							DIRECTION	SPEED	VV	Oktas	ww	W	Oktas	C _L	h	C _M	C _H	*F	*F	Points	Miles	*x10 Kts.	Direction	Speed	
LST.	Mbs.	"F	"F	"F	*x10 Kts.																									
01	01	01 15 8	41	3 9	3 7	3 2	1 6	6 4	6	0 2	5	8	5	4																
01	04	01 22 2	41	4 0	5 9	5 2	1 9	2 4	6	5 2	5	8	6	4																
01	07	01 15	41	4 1	4 1	3 1	1 7	0 6	6	1 0	5	8	6	3																
01	10	01 14	42	4 2	4 2	3 2	2 0	1 6	6	1 0	5	8	6	3																
01	13	00 59 9	42	4 2	4 2	3 0	1 8	0 2	6	4 6	4	8	6	0																
01	16	00 59 8	43	4 3	4 3	4 3	2 9	2 5	0 4	4 5	4	8	6	2																
01	19	01 08	42	4 2	4 2	4 2	1 7	0 4	6	4 4	4	8	6	2																
02	01	00 54	42	4 2	4 2	4 2	1 5	0 6	6	5 2	6	8	7	2																
02	07	00 54	43	4 3	4 3	4 3	5 2	3 0	0 4	8	5 2	6	8	7																
02	10	00 41	44	4 4	4 4	4 4	3 1	2 7	0 2	8	6 3	6	8	7																
02	13	00 51	42	4 2	4 2	4 2	2 7	1 8	0 2	8	6 3	6	8	7																
02	16	00 65	40	3 7	3 2	2 5	2 3	4 0	8	2 1	6	8	7	3																
02	19	00 62	40	3 7	3 2	2 9	2 5	4 8	8	0 2	1	4	5	7																
02	22	00 36	3 9	3 8	5 7	2 8	2 7	4 0	8	8 1	8	8	8	5																
03	01	00 17	40	3 9	3 8	2 8	2 5	4 0	8	1 8	2	8	8	3																
03	04	99 90	40	4 0	4 0	2 7	3 0	5 0	8	7 2	7	8	8	0																
03	07	99 84	50	3 0	3 0	2 7	3 0	5 0	8	7 2	7	8	8	0																
03	10	00 02	3 4	2 9	1 8	2 5	2 5	5 0	8	5 0	2	7	5	8																
03	13	00 18	5 5	2 9	2 1	2 5	2 5	5 0	8	1 1	2	5	8	0																
03	16	00 37	3 3	3 0	2 4	2 5	2 5	5 0	8	1 1	2	5	8	0																
03	19	00 59	3 4	3 2	2 8	2 5	2 5	5 0	8	1 1	2	5	8	0																
03	22	00 70	3 5	3 4	3 2	2 4	2 4	5 0	8	6 4	7	6	8	0																
04	01	00 53	4 1	5 7	3 4	2 4	2 4	5 0	8	2 3	7	8	8	5																
04	04	00 77	3 8	3 6	3 3	2 5	2 5	5 0	8	2 5	8	8	8	5																
04	07	00 83	4 0	3 5	3 3	2 5	2 5	5 0	8	1 5	8	8	8	5																
04	10	00 97	3 7	3 5	3 2	2 5	2 5	5 0	8	1 8	2	8	8	5																
04	13	00 65	3 8	3 7	3 2	2 4	2 4	5 0	8	1 6	2	8	8	5																
04	16	00 94	3 7	3 7	3 2	2 4	2 4	5 0	8	6 0	6	8	8	5																
04	19	00 97	3 9	3 7	3 5	2 5	2 4	5 0	8	6 0	6	8	8	5																
04	22	00 26	4 0	3 7	3 7	2 5	2 5	5 0	8	2 1	6	8	8	5																
05	01	00 84	3 9	3 7	3 4	2 5	2 5	5 0	8	5 0	5	8	8	4																
05	04	00 85	4 0	3 7	3 5	2 5	2 5	5 0	8	0 2	5	8	8	4																
05	07	00 99	4 1	3 9	3 6	2 5	2 5	5 0	8	1 0	2	8	8	4																
05	10	01 12	4 0	3 9	3 8	2 4	2 4	5 0	8	2 5	8	8	8	4																
05	13	01 22	3 9	3 8	3 7	2 5	2 5	5 0	8	6 4	6	8	8	4																
05	16	01 51	3 9	3 8	3 7	2 4	2 4	5 0	8	6 1	6	8	8	4																
05	19	01 56	3 9	3 9	2 9	2 7	2 7	5 0	8	6 1	6	8	8	4																
05	22	01 54	3 9	3 8	5 7	2 9	2 9	5 0	8	6 0	6	8	7	4																
06	01	01 24	4 0	3 9	3 8	2 8	2 8	5 0	8	6 0	6	8	7	4																
06	04	01 01	4 1	4 1	3 0	2 8	2 8	5 0	8	6 0	6	8	7	4																
06	07	00 77	4 4	4 3	4 2	2 5	2 5	5 0	8	2 1	6	8	7	4																
06	10	00 78	4 3	4 3	4 3	2 5	2 5	5 0	8	6 1	6	8	7	2																
06	13	00 70	4 3	4 3	4 3	2 5	2 5	5 0	8	2 5	6	8	7	2																
06	16	00 57	4 2	4 2	4 2	2 9	2 9	5 0	8	1 0	2	8	7	5																
06	19	00 33	4 3	4 2	4 1	2 9	2 9	5 0	8	8 5	5 0	8	7	4																
06	22	00 18	4 3	4 3	4 3	2 5	2 5	5 0	8	8 1	5	8	7	4																
07	01	00 30	4 2	4 1	4 0	2 8	2 7	5 0	8	8 1	5	8	7	3																
07	04	00 45	4 1	4 0	3 9	2 7	5 0	8	8 1	5	8	7	4																	
07	07	00 59	4 1	4 0	3 9	2 7	5 0	8	2 1	6	8	7	4																	
07	10	00 63	4 2	4 2	4 2	2 7	5 0	8	8 1	5	8	7	2																	
07	13	00 44	4 2	4 2	4 2	2 7	5 0	8	6 0	6	8	7	3																	
07	16	00 37	4 3	4 2	4 1	2 7	5 0	8	6 1	6	8	7	3																	
07	19	00 56	4 1	4 0	3 9	2 9	5 0	8	4 4	8	8	7	4																	
07	22	00 83	4 1	3 9	3 6	2 6	5 0	8	4 0	4	8	7	4																	
08	01	01 11	4 0	3 8	3 5	2 5	5 0	8	1																					

**RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF JUNE 1951**

DAY	HOUR	STATION LEVEL PRESSURE	WIND			DEW POINT	DIRECTION	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	TYPE	LOW CLOUD HEIGHT	CLOUD DIRECTION	MAXIMUM TEMPERATURE °F	MINIMUM TEMPERATURE °F	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE			
			DRY BULB	WET BULB	*x10 Kts.																	DIRECTION	SPEED		
11	0 1	9 6 1 2	3 0	3 0	5 0	2 4	2 5	0 2	8	7 3	7	8	7	1	5	0	0	0	0	0	0	0	0	0	0
11	0 4	9 6 4 1	3 1	3 0	2 9	2 4	3 5	0 8	8	8 6	8	8	3	4	0	0	0	0	0	0	0	0	0	0	0
11	0 7	9 6 6 0	3 2	3 0	2 6	2 4	2 8	1 1	7	8 7	8	7	3	5	0	0	3	4	0	0	0	0	0	0	0
11	1 0	9 9 1 7	3 3	3 1	2 7	2 3	1 5	1 2	7	8 6	7	7	8	5	5	5	5	5	5	5	5	5	5	5	5
11	1 3	9 9 4 5	3 3	3 0	2 4	2 6	1 7	6 4	7	2 6	7	7	8	5	5	5	5	5	5	5	5	5	5	5	5
11	1 6	9 9 7 4	3 1	3 0	2 9	2 4	1 6	3 2	7	8 5	7	6	8	3	5	5	5	5	5	5	5	5	5	5	5
11	1 9	9 9 9 8 4	3 3	3 2	5 0	2 4	1 3	4 0	6	0 2	8	6	6	8	5	5	0	0	5	0	0	0	0	0	0
11	2 2	9 9 7 5	5 3	3 5	3 3	2 9	1 4	2 4	8	8 4	7	8	5	5	5	5	5	5	5	5	5	5	5	5	5
12	0 1	9 8 8 7	3 7	3 7	3 7	3 2	3 6	2 4	8	7 2	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
12	0 7	W 8 8 2	3 7	3 4	2 9	2 4	4 1	6 4	8	1 8	2	8	5	5	5	5	5	5	5	5	5	5	5	5	5
12	1 3	9 9 2 7	3 6	3 4	5 0	2 6	3 5	5 0	6	7 7	8	5	2	4	3	0	6	6	6	6	6	6	6	6	6
12	1 6	9 9 9 6	3 7	3 4	2 9	2 5	4 0	8 0	8	8 4	7	6	8	4	3	0	6	6	6	6	6	6	6	6	6
12	1 9	9 9 0 3	3 8	3 5	3 0	2 5	3 5	8 0	7	0 2	8	7	8	5	5	5	0	0	5	5	5	5	5	5	5
12	2 2	0 0 0 7	3 7	3 5	3 2	2 5	2 5	8 0	5	2 6	9	5	8	5	5	5	0	0	5	5	5	5	5	5	5
12	2 5	0 0 0 4	3 7	3 5	3 2	2 4	1 7	4 0	8	8 3	7	6	8	7	4	4	3	8	3 3	0 0 1 0	6 6 5	2 5	5 6	0 1 4	
13	0 7	0 0 0 7	3 9	3 8	3 5	2 7	2 2	1 6	8	8 1	8	8	8	7	4	4	3	6	6	6	6	6	6	6	6
13	1 0	0 0 0 6	4 0	4 0	4 0	2 8	2 7	2 8	2 4	8 0	8	8 0	8	8	7	4	4	4	4	4	4	4	4	4	4
13	1 3	0 0 0 5	4 2	4 1	4 0	2 9	3 0	4 0	7	2 1	8	7	8	4	4	4	4	4	4	4	4	4	4	4	4
13	1 6	0 0 0 1	4 2	4 1	4 0	2 8	3 0	4 0	8	0 3	2	8	7	4	4	4	4	4	4	4	4	4	4	4	4
13	1 9	0 0 0 1	4 1	4 0	3 9	2 9	2 1	4 0	8	1 0	8	8	8	7	2	2	2	2	2	2	2	2	2	2	2
13	2 2	0 0 0 2	4 1	4 1	4 1	3 0	2 2	1 6	8	2 0	5	5	8	6	2	2	2	2	2	2	2	2	2	2	2
13	2 5	0 0 0 4	4 1	3 9	3 6	2 8	2 8	2 8	2 4	8 0	8	8 0	8	8	7	4	4	4	4	4	4	4	4	4	4
13	2 8	0 0 0 7	4 0	4 0	4 0	2 8	2 7	2 7	2 7	8 0	8	8 0	8	8	7	4	4	4	4	4	4	4	4	4	4
14	0 1	0 0 0 0	4 2	4 2	4 2	3 1	1 7	2 0	8	6 5	6	6	8	7	2	2	2	2	2	2	2	2	2	2	2
14	0 4	0 0 0 5	4 1	4 1	4 1	3 0	0 4	1 6	8	6 5	6	6	8	7	2	2	2	2	2	2	2	2	2	2	2
14	0 7	9 9 8 8	3 9	3 8	3 8	3 7	1 5	2 0	2 4	8 1	6	6	8	7	4	4	4	4	4	4	4	4	4	4	4
14	1 0	9 9 2 7	3 7	3 4	2 9	1 6	2 3	2 0	8 0	5 0 1	R	5	7	7	4	4	4	4	4	4	4	4	4	4	4
14	1 3	0 0 0 2	3 6	3 2	2 4	1 8	2 4	2 4	8 0	6	0 3	1	6	8	5	5	5	5	5	5	5	5	5	5	5
14	1 6	0 0 0 1	3 5	3 3	2 9	1 7	2 3	2 0	8 0	5 0 3	R	2	5	8	5	5	5	5	5	5	5	5	5	5	5
14	1 9	0 0 0 0	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	2 2	0 0 0 8	3 4	3 2	2 8	1 6	2 2	2 2	8 0	8 0 2	R	2	2	8	5	5	5	5	5	5	5	5	5	5	5
14	2 5	0 0 0 5	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	2 8	0 0 0 2	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	3 1	0 0 0 0	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	3 4	0 0 0 7	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	3 7	0 0 0 4	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	4 0	0 0 0 1	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	4 3	0 0 0 0	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	4 6	0 0 0 7	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	4 9	0 0 0 4	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	5 2	0 0 0 1	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	5 5	0 0 0 0	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	5 8	0 0 0 7	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	6 1	0 0 0 4	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	6 4	0 0 0 1	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	6 7	0 0 0 0	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	7 0	0 0 0 7	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	7 3	0 0 0 4	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	7 6	0 0 0 1	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	7 9	0 0 0 0	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	8 2	0 0 0 7	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	8 5	0 0 0 4	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	8 8	0 0 0 1	3 4	3 2	2 8	1 6	2 2	2 2	8 0	7 0	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5
14	9 1	0 0 0 0	3 4	3 2	2 8	1 6																			

RESULTS OF SURFACE OBSERVATIONS AT																MACQUARIE ISLAND									
FOR THE MONTH OF JUNE 1951																									
DAY	HOUR	STATION ELEVATION PRESSURE			WIND		VISIBILITY	LOW CLOUD		CLOUD DIRECTION		PRECIPITATION		ANEMOMETER	MAXIMUM GUST	SUNSHINE									
		LST.	Mbs.	"F	DRY BULB	WET BULB	DEW POINT	DIRECTION	SPEED	TYPE	HEIGHT	AMOUNT	WEATHER	WEATHER											
21	01	00 6 8	3 8	3 7	5 5	2 7	2 3	8 0	8	0 2	2	8	8	4	6	9	9 7	4 0	3 1	0 0 0 2	4 6 9	2 7	3 5	0 0 5	
21	04	00 4 5	3 8	3 7	3 5	2 7	2 2	8 0	8	0 2	2	8	8	4	6	6	6	6	6	6	6	6	6	6	
21	07	00 2 0	3 8	3 8	3 8	2 7	2 5	8 0	8	0 2	2	8	8	4	6	6	6	6	6	6	6	6	6	6	
21	10	00 9 5	3 9	3 9	3 9	2 7	2 5	8 0	8	1 6	8	7	8	4	6	6	6	6	6	6	6	6	6	6	
21	13	00 6 3	4 0	3 9	3 8	2 7	2 8	8 0	8	0 2	2	7	8	4	6	6	6	6	6	6	6	6	6	6	
21	16	00 6 2	3 7	3 7	3 7	2 4	2 1	8 0	8	2 6	8	5	8	4	6	6	6	6	6	6	6	6	6	6	
21	19	00 6 5	3 5	3 5	3 5	2 0	0 8	8 0	5	8 3	8	5	8	4	6	6	6	6	6	6	6	6	6	6	
21	22	00 7 9	3 2	3 2	3 2	2 1	0 5	0 4	7	7 2	7	7	8	4	6	6	6	6	6	6	6	6	6	6	
22	01	00 7 7	3 4	3 3	3 4	2 5	1 2	8 0	5	2 6	7	5	8	6	6	6	6	6	6	6	6	6	6	6	
22	04	00 5 4	3 4	3 4	3 4	2 8	2 2	8 0	7	0 2	2	4	8	5	6	6	6	6	6	6	6	6	6	6	
22	07	00 9 4	3 6	3 6	3 6	2 8	3 0	3 2	8	6 3	6	6	8	4	6	6	6	6	6	6	6	6	6	6	
22	10	00 8 9	3 7	3 7	3 7	2 8	3 8	1 2	8	6 3	6	8	7	3	6	6	6	6	6	6	6	6	6	6	
22	13	00 9 6	3 9	3 7	3 5	2 5	3 2	8 0	6	2 1	8	6	8	4	6	6	6	6	6	6	6	6	6	6	
22	16	00 9 5	3 8	3 8	3 8	2 5	3 3	4 0	7	8 1	8	7	8	4	6	6	6	6	6	6	6	6	6	6	
22	19	00 3 2	3 9	3 8	3 7	2 5	2 5	4 0	8	5 2	8	6	8	4	6	6	6	6	6	6	6	6	6	6	
22	22	00 2 5	4 0	4 0	4 0	2 7	2 5	1 6	8	8 0	8	2 5	8	5	6	6	6	6	6	6	6	6	6	6	
23	01	00 2 6	4 0	4 0	4 0	2 6	2 5	4 0	8	2 5	8	8	5	6	6	6	6	6	6	6	6	6	6	6	
23	04	00 9 1 8	4 0	4 0	4 0	2 8	3 0	0 8	8	1 0	8	2	8	6	6	6	6	6	6	6	6	6	6	6	
23	07	00 9 1 1	4 0	3 9	3 8	2 7	3 1	2 4	8	1 0	8	2	8	5	4	6	6	6	6	6	6	6	6	6	
23	10	00 8 9 3	4 0	3 8	3 5	2 8	3 4	3 4	8	2 5	8	7	5	5	5	6	6	6	6	6	6	6	6	6	
23	13	00 8 7 2	4 0	3 9	3 8	2 8	3 4	3 4	8	2 5	8	5	8	5	6	6	6	6	6	6	6	6	6	6	
23	16	00 8 8 8	3 8	3 5	3 0	2 5	2 9	4 0	8	1 5	8	1 5	8	7	5	6	6	6	6	6	6	6	6	6	
23	19	00 9 0 2	3 5	3 5	3 5	2 4	3 0	4 0	8	0 8	7	8 5	8	7	5	6	6	6	6	6	6	6	6	6	
23	22	00 9 2 0	3 3	3 5	3 3	2 4	2 4	2 6	0 2	8	8 6	7	8	7	4	6	6	6	6	6	6	6	6	6	
24	01	00 9 2 6	3 2	3 1	2 9	2 5	2 5	2 5	0 8	6	8 5	7	6	8	4	6	6	6	6	6	6	6	6	6	
24	04	00 7 9 9	3 1	3 0	2 8	2 5	2 5	2 0	1 6	6	8 5	7	6	8	4	6	6	6	6	6	6	6	6	6	
24	07	00 1 2 2	3 2	3 0	2 6	2 5	2 5	2 0	8 0	7	2 6	7	7	8	4	6	6	6	6	6	6	6	6	6	
24	10	00 0 2 2	3 5	3 3	2 9	2 6	2 6	2 0	8 1	6	0 2	2	6	8	5	6	6	6	6	6	6	6	6	6	
24	13	00 0 0 6	5 7	3 6	3 4	2 8	3 0	0 2	8	8 4	8	4	8	6	6	6	6	6	6	6	6	6	6	6	
24	16	00 9 9 2	3 8	3 7	3 5	2 8	3 4	4 0	8	6 0	8	5	7	4	6	6	6	6	6	6	6	6	6	6	
24	19	00 7 7 5	3 9	3 9	3 9	2 7	3 5	0 8	8	8 1	8	7	7	4	6	6	6	6	6	6	6	6	6	6	
24	22	00 9 6 9	3 9	3 9	3 9	2 9	3 0	0 8	8	6 1	8	7	7	4	6	6	6	6	6	6	6	6	6	6	
25	01	00 9 6 2	4 0	3 9	3 8	2 7	3 1	4 0	8	2 5	8	5	7	5	5	6	6	6	6	6	6	6	6	6	
25	04	00 9 8 5	3 5	3 5	3 5	2 5	3 0	0 8	8	8 4	8	7	7	5	5	6	6	6	6	6	6	6	6	6	
25	07	00 0 0 4	5 6	3 6	3 6	2 4	1 9	1 6	8	8 4	8	8	8	7	7	6	6	6	6	6	6	6	6	6	
25	10	00 4 5	5 4	3 6	3 2	1 8	2 2	4 0	7	8 3	7	7	8	5	5	6	6	6	6	6	6	6	6	6	
25	13	00 8 8 2	3 2	3 1	2 9	1 9	1 3	8 1	8	2 6	7	8	5	5	4	4	5	5	5	5	5	5	5	5	
25	16	01 2 2	3 0	2 9	2 7	1 6	1 5	8 0	8	0 2	2	8	8	5	4	4	5	5	5	5	5	5	5	5	
25	19	01 4 8	3 1	2 9	2 5	1 7	1 5	8 0	8	0 2	2	8	8	5	4	4	5	5	5	5	5	5	5	5	
25	22	01 7 5	5 1	2 9	2 5	1 9	0 2	8 0	7	0 2	2	7	7	5	5	5	6	6	6	6	6	6	6	6	
26	01	01 6 3	3 2	2 9	2 3	2 0	0 4	8 0	7	0 2	2	7	7	5	5	5	6	6	6	6	6	6	6	6	
26	04	01 8 9	3 3	3 2	3 0	2 5	1 2	8 0	7	0 2	2	7	7	5	5	5	6	6	6	6	6	6	6	6	
26	07	01 8 2	3 6	3 4	3 0	2 7	1 4	8 1	8	0 2	2	8	8	5	5	5	6	6	6	6	6	6	6	6	
26	10	01 7 0	5 7	3 7	2 8	1 9	1 6	8 0	5	5 0	2	8	8	5	5	4	4	5	5	5	5	5	5	5	
26	13	01 5 6	3 9	3 9	3 9	2 7	2 3	0 4	8	5 5	5	5 5	5	5	4	4	5	5	5	5	5	5	5	5	
26	16	01 6 4	3 9	3 9	3 9	2 7	1 9	0 2	8	5 5	5	5 5	5	5	4	4	5	5	5	5	5	5	5	5	
26	19	01 7 9	3 8	3 8	3 8	2 6	2 1	1 6	8	2 5	8	7	8	4	4	5	5	5	5	5	5	5	5	5	
26	22	02 0 6	3 4	3 4	3 3	2 4	0 7	4 0	8	2 0	8	5	8	7	4	4	5	5	5	5	5	5	5	5	
27	01	02 1 2	3 4	3 4	3 3	2 1	0 2	4 0	8	6 1	4	0 1	2	2	2	2	2	2	2	2	2	2	2	2	
27	04	02 1 1	3 4	3 4	3 3	2 1	0 2	4 0	8	6 0	4	0 1	2	2	2	2	2	2	2	2	2	2	2	2	
27	07	02 0 9	3 5	3 4	3 2	2 5	1 0	4 0	8	0 3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
27	10	01 9 5	3 5	3 4	3 2	2 6	1 0	8 0	7	0 2	2	8	8	5	5	5	6	6	6	6	6	6	6	6	
27	13	01 6 6	3 5	3 5	3 5	2 7	1 4	0 4	9	4 7	9	4 5	4	4	4	4	4	4	4	4	4	4	4	4	
27	16	01 3 9	3 8	3 8	3 8	2 8	2 8	1 8	0 4	9	4 5	4	4	4	4	4	4	4	4	4	4	4	4	4	
27	19	01 1 1 1	4 0	4 0	4 0	2 9	2 9	1 8	0 4	9	4 5	4	4	4	4	4	4	4	4	4	4	4	4	4	
27	22	00 9 4	4 0	3 9	3 9	2 7	2 2	1 6	8	5 0	8	0 2	2	8	8	5	5	5	6	6	6	6	6		

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF																	MACQUARIE ISLAND JULY 1951											
DAY	HOUR	STATION LEVEL PRESSURE.	WIND		DEW POINT	DIRECTION	SPEED	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER			CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE						
			DRY BULB	WET BULB						AMOUNT	TYPE	LOW	MIDDLE	HIGH	DIRECTION	LOW	MIDDLE	HIGH	DIRECTION	SPEED								
LST.	Mbs.	"F	"F	"F	"x10	Kts.	VV	Oktas	vv	W	Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.	Hours			
01	0 1	0 2 3 9	5 7	5 4	2 9	2 7	3 0	8 0	4	2 5																		
01	0 4	0 2 4 2	5 8	5 5	3 3	2 7	2 3	8 0	8	0 2																		
01	0 7	0 2 3 9	4 0	3 9	3 8	2 7	2 3	3 2	8	1 0																		
01	1 0	0 2 3 3	4 0	4 0	4 0	2 7	3 2	3 2	8	1 0																		
01	1 3	0 2 2 2	4 1	4 0	3 9	2 9	3 3	4 0	8	5 0																		
01	1 6	0 2 1 8	4 1	4 0	3 9	2 7	3 0	0 8	8	5 0																		
01	1 9	0 2 1 9	4 0	3 9	3 8	2 7	3 0	0 5	8	1 0																		
01	2 2	0 2 1 2	4 1	4 0	3 9	2 7	3 5	0 8	7	1 0																		
02	0 1	0 2 1 6	4 1	4 0	3 9	2 8	3 0	1 6	8	5 0																		
02	0 4	0 2 1 9	4 1	4 0	3 9	2 8	2 5	0 8	8	5 1																		
02	0 7	0 2 2 4	4 2	4 1	4 0	2 9	2 9	2 3	2 4	8	0 2																	
02	1 0	0 2 1 9	4 2	4 0	3 7	2 9	2 0	9 1	7	0 2																		
02	1 3	0 2 1 1	4 2	4 1	4 0	3 0	2 5	8 0	7	1 0																		
02	1 6	0 2 0 5	4 2	4 0	3 7	2 9	2 5	8 0	8	0 2																		
02	1 9	0 2 0 2	4 1	4 0	3 9	2 9	2 6	4 0	8	5 0																		
02	2 2	0 1 9 4	4 1	4 0	3 9	2 9	2 6	4 0	8	5 0																		
03	0 1	0 1 8 7	4 1	4 0	3 9	2 9	2 4	2 4	8	5 0																		
03	0 4	0 1 6 9	4 1	4 1	4 1	3 0	1 7	1 5	8	5 1																		
03	0 7	0 1 5 0	4 2	4 2	4 2	3 1	2 3	1 6	8	5 1																		
03	1 0	0 1 3 4	4 3	4 3	4 3	3 1	2 5	0 6	8	5 0																		
03	1 3	0 1 0 9	4 3	4 3	4 3	3 1	2 7	0 8	8	6 0																		
03	1 6	0 0 9 9	4 3	4 2	4 1	4 0	3 1	2 5	0 4	8	6 0																	
03	1 9	0 0 9 2	4 2	4 2	4 2	3 1	2 2	0 8	8	6 0																		
03	2 2	0 0 8 2	4 2	4 1	4 0	3 2	1 6	0 4	8	5 1																		
04	0 1	0 0 5 4	4 2	4 2	4 2	3 2	1 6	0 4	8	5 8																		
04	0 4	0 0 1 1	4 2	4 2	4 2	3 4	2 2	0 4	8	5 8																		
04	0 7	9 9 6 7	4 3	4 2	4 2	3 4	3 0	1 6	8	8 1																		
04	1 0	9 9 1 9	4 3	4 3	4 3	3 7	0 8	8	6 1	6	8	7	7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
04	1 3	9 8 7 0	4 4	4 3	4 2	3 4	3 4	0 6	8	6 0																		
04	1 6	9 8 3 7	4 3	4 3	4 3	3 4	2 6	0 6	8	6 0																		
04	1 9	9 8 0 7	4 3	4 2	4 2	3 4	2 0	0 4	8	6 1																		
04	N 2	9 7 9 6	4 2	4 2	4 2	2 8	1 0	0 2	9	4 7																		
05	0 1	9 8 1 4	3 9	3 9	3 9	2 6	1 0	0 2	9	4 5																		
05	0 4	9 8 2 2	4 0	4 0	4 0	2 8	0 4	8	5 5	5 5	8	7	7	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
05	0 7	9 8 5 5	3 5	3 4	3 2	2 4	1 0	4 0	8	6 0																		
05	1 0	9 8 9 7	3 4	3 2	2 8	2 4	1 0	4 0	8	8 5																		
05	1 3	9 9 0 7	3 4	3 1	2 5	2 5	1 2	8 1	7	0 2																		
05	1 6	9 9 2 6	3 3	3 1	2 7	2 4	1 5	0 5	8	1 1																		
05	1 9	9 9 4 4	3 1	3 0	2 8	2 5	0 5	8 2	2	0 1																		
05	2 2	9 9 6 3	3 3	3 2	3 0	2 6	1 2	8 2	2	0 2																		
06	0 1	9 9 7 5	3 1	3 0	2 8	2 5	2 2	8 1	5	8 6																		
06	0 4	9 9 9 8	5 0	2 9	2 7	2 5	2 5	8 0	6	8 6																		
06	0 7	0 0 3 1	2 8	2 7	2 5	2 1	1 0	8 0	6	8 6																		
06	1 0	0 0 6 4	3 2	2 9	2 3	2 4	1 1	8 0	6	0 2																		
06	1 3	0 0 7 3	3 1	2 7	2 8	1 3	0 0	8	2 6																			
06	1 6	0 0 7 8	3 4	3 2	2 8	2 7	1 4	8 0	8	0 2																		
06	1 9	0 0 8 0	3 5	3 5	3 5	2 9	1 7	8 0	4	0 1																		
06	2 2	0 0 7 9	3 6	3 6	3 5	3 0	2 0	8 0	4	0 2																		
07	0 1	0 0 6 7	4 0	3 8	3 6	3 5	3 1	2 0	8 0	0 2																		
07	0 4	0 0 5 7	4 0	4 0	4 0	3 1	2 2	1 6	8 0	5 2																		
07	0 7	0 0 2 1	4 0	3 9	3 8	2 7	1 8	0 4	8	5 0																		
07	1 0	0 0 7 6	5 9	3 9	3 9	2 6	1 5	2 4	8	5 5																		
07	1 3	0 0 9 0	3 8	3 7	3 5	2 4	1 0	1 2	8	5 5																		
07	1 6	0 1 0 6	3 7	3 5	3 4	2 4	1 0	2 4	7	5 4																		
07	1 9	0 1 2 3	3 7	3 6	3 4	0 0	0 0	0 8	0	1 0																		
07	2 2	0 1 2 8	3 9	3 8	3 7	3 0	0 4	8 0	7	0 2																		
08	0 1	0 1 2 6	3 9	3 9	3 9	3 1	0 5	0 3	8	5 1																		
08	0 4	0 0 1 2	4 0	4 0	4 0	3 1	1 5																					

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF JULY 1951																		MAXIMUM GUST		SUNSHINE						
DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD		CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE			
						DIRECTION	SPEED					Oktas	WW	W	Oktas	CL	H	CM	CH	DIRECTION	DIRECTION	DIRECTION		DIRECTION	SPEED	
LST.	Mts.	"F	"F	"F	"F	*x10	Kts.	VV	Oktas	WW	W	Oktas	CL	H	CM	CH	CL	CM	CH	DIRECTION	DIRECTION	DIRECTION	Miles	*x10	Kts.	Hours
11	0 1	0 0 0 5	3 1	2 9	2 5	2 5	1 5	4 0	4	0 7	2	4	8	4	0	0	0	5	5	6	6	6	4 1 7	2 5	3 8	0 1 8
11	0 4	0 0 1 2	3 1	2 9	2 5	2 5	1 5	4 0	4	8 6	7	4	8	4	0	0	0	5	5	6	6	6				
11	0 7	0 0 5 0	3 1	5 0	2 8	2 3	1 4	4 0	7	8 6	7	7	5	4	3	8	5	5	5	6	6	6				
11	1 0	0 0 4 0	5 1	3 0	2 8	2 3	1 8	8 0	6	8 6	7	5	2	4	3	8	5	5	5	6	6	6				
11	1 3	0 0 4 0	3 2	3 1	2 9	2 5	1 2	0 2	6	8 6	7	6	9	4	3	3	5	5	5	6	6	6				
11	1 6	0 0 4 9	3 0	2 8	2 4	2 4	1 0	8 0	5	8 6	7	5	2	4	0	3	5	5	5	6	6	6				
11	1 9	0 0 6 2	3 2	3 0	2 6	2 4	1 5	0 8	7	8 5	7	7	2	4	5	5	5	5	5	6	6	6				
11	2 2	0 0 7 4	3 2	3 1	2 9	2 5	1 6	0 8	8	8 5	7	8	8	4	5	5	5	5	5	6	6	6				
12	0 1	0 0 7 6	3 3	3 2	3 0	2 5	2 0	3 2	8	8 5	7	8	8	4	5	5	5	5	5	6	6	6				
12	0 4	0 0 7 9	3 3	3 2	3 0	2 4	1 9	0 8	8	8 5	7	8	8	4	5	5	5	5	5	6	6	6				
12	0 7	0 0 8 4	3 4	3 3	3 1	2 5	2 2	2 4	8	8 5	7	8	8	4	5	5	5	5	5	6	6	6				
12	1 0	0 0 8 2	3 3	3 2	3 0	2 3	2 2	2 4	7	8 5	7	7	9	4	3	3	5	5	5	6	6	6				
12	1 3	0 0 5 7	3 5	3 3	2 9	2 6	2 6	2 2	2 4	8	1 5	7	8	5	4	5	5	5	5	6	6	6				
12	1 6	0 0 3 5	3 7	3 5	3 2	2 7	2 2	2 4	8	0 2	5	8	5	4	5	5	5	5	5	6	6	6				
12	1 9	9 9 9 7	3 9	3 8	3 7	2 9	2 6	1 6	8	6 3	8	8	7	4	5	5	5	5	5	6	6	6				
12	2 2	9 9 7 4	3 9	3 8	3 7	2 5	3 7	1 6	7	2 1	7	7	7	4	5	5	5	5	5	6	6	6				
13	0 1	0 0 0 1	3 8	3 7	3 5	2 5	3 0	1 6	8	6 2	6	8	7	4	5	5	5	5	5	6	6	6				
13	0 4	0 0 2 6	3 6	3 2	2 4	2 4	2 7	8 0	0 1	0 2	5	5	5	5	5	5	5	5	5	6	6	6				
13	0 7	0 0 4 2	3 6	3 3	2 7	2 7	1 2	8 1	5	0 2	1	7	7	4	5	5	5	5	5	6	6	6				
13	1 0	0 0 3 8	3 5	3 5	2 7	2 8	1 7	8 0	7	0 2	2	8	7	4	5	5	5	5	5	6	6	6				
13	1 3	0 0 1 1	3 7	3 5	3 2	5 0	1 7	8 0	0 2	2	2	8	7	4	5	5	5	5	5	6	6	6				
13	1 6	9 9 8 5	5 8	3 8	3 8	3 8	5 1	1 4	5 2	1 0	2	8	6	4	5	5	5	5	5	6	6	6				
13	1 9	9 9 6 0	5 0	3 7	3 7	2 5	0 4	0 6	8	5 1	5	8	6	2	5	5	5	5	5	6	6	6				
14	0 1	9 9 4 8	3 8	3 6	3 6	2 8	0 7	0 8	3 2	8	1 0	5	6	4	5	4	0	0	0	6	6	6				
14	0 4	9 9 3 2	3 7	3 5	3 4	2 8	1 8	3 2	8	2 1	8	6	5	4	3	0	0	6	6	6	6	6				
14	0 7	9 9 8 7 0	3 8	3 8	3 8	3 0	3 2	1 6	8	8 0	8	8	9	4	5	5	5	5	5	6	6	6				
14	1 0	9 9 1 0	3 7	3 4	2 9	2 5	2 5	2 8	1 1	5	0 2	2	5	8	4	0	0	0	6	6	6	6				
14	1 3	9 9 3 0	3 8	3 5	3 2	5 0	1 7	8 0	7	0 2	2	7	8	5	4	5	5	5	5	6	6	6				
14	1 6	9 9 3 5	4 0	3 8	3 5	2 9	2 5	8 1	6	0 2	2	5	5	5	3	0	0	6	6	6	6	6				
14	1 9	9 9 4 3	4 1	3 9	3 6	2 9	2 5	8 1	8	6 0	8	8	6	2	5	5	5	5	5	6	6	6				
14	2 2	9 9 7 4	4 0	3 8	3 5	3 0	2 5	8 1	8	0 2	6	7	5	4	5	5	5	5	5	6	6	6				
15	0 1	9 9 9 2	4 0	3 9	3 8	2 8	1 7	1 6	8	6 1	6	8	7	4	5	5	5	5	5	6	6	6				
15	0 4	0 0 1 2	4 0	3 9	3 6	2 8	1 3	4 0	5	1 0	8	8	6	2	5	5	5	5	5	6	6	6				
15	0 7	0 0 2 7	4 1	4 1	4 1	3 1	2 0	0 2	8	1 0	8	8	6	2	5	5	5	5	5	6	6	6				
15	1 0	0 0 2 5	4 0	4 0	4 0	3 1	1 8	1 6	7	1 0	2	4	6	2	3	9	7	6	6	6	6	6				
15	1 3	0 0 1 3	4 0	4 0	4 0	3 1	1 6	0 5	8	5 0	5	8	6	1	5	5	5	5	5	6	6	6				
15	1 6	9 9 9 3	4 2	4 2	4 2	3 1	2 5	0 2	9	4 5	4	9	9	0	0	0	0	0	0	9	9	9				
15	1 9	9 9 8 7	4 2	4 2	4 2	3 1	2 5	0 6	8	5 0	5	8	7	2	5	5	5	5	5	6	6	6				
15	2 2	9 9 6 5	4 3	4 3	4 3	2 2	3 3	1 6	8	5 0	5	8	7	3	5	5	5	5	5	6	6	6				
16	0 1	9 9 9 1 4	4 4	4 4	4 4	2 0	3 0	1 6	8	5 0	5	8	7	3	5	5	5	5	5	6	6	6				
16	0 4	9 9 9 2 8	4 3	3 8	3 8	2 8	1 7	1 6	8	5 0	5	8	7	3	5	5	5	5	5	6	6	6				
16	0 7	9 9 9 4 0	3 5	3 2	3 0	2 7	1 6	8	7	0 2	2	7	5	5	5	5	5	5	5	6	6	6				
16	1 0	9 9 9 3 9	3 8	3 5	3 0	2 8	1 6	8	8	0 2	2	7	5	5	5	5	5	5	5	6	6	6				
16	1 3	9 9 9 3 3	3 9	3 8	3 7	3 0	2 7	1 6	8	5 1	5	8	7	3	5	5	5	5	5	6	6	6				
16	1 6	9 9 9 6 1	4 4	4 4	4 4	3 2	3 0	0 6	8	5 0	5	8	6	1	5	5	5	5	5	6	6	6				
16	1 9	9 9 9 3 4	4 1	4 1	4 1	3 2	2 6	0 2	8	5 0	5	8	7	2	5	5	5	5	5	6	6	6				
16	2 2	9 9 9 4 2	4 1	4 1	4 1	3 2	2 6	0 2	8	5 0	5	8	6	2	5	5	5	5	5	6	6	6				
17	0 1	9 9 9 4 5	4 1	4 1	4 1	3 2	2 6	0 2	8	5 2	5	8	7	1	5	5	5	5	5	6	6	6				
17	0 4	9 9 9 5 0	4 1	4 1	4 1	3 2	2 6	0 1	8	5 0	5	8	6	2	5	5	5	5	5	6	6	6				
17	0 7	9 9 9 5 5	4 2	4 1	4 1	3 2	2 6	0 1	8	5 4	5	8	6	2	5	5	5	5	5	6	6	6				
17	1 0	9 9 9 6 1	4 2	4 2	4 2	3 2	0 6	0 6	8	2 0	5	8	6	1	5	5	5	5	5	6	6	6				
17	1 3	9 9 9 6 1	4 2	4 2	4 2	3 1	0 6	0 6	8	5 9	5	8	6	3	5	5	5	5	5	6	6	6				
17	1 6	9 9 9 7 9	3 9	3 9	3 9	2 8	0 4	2 4	8	5 9	5	8	6	3	5	5	5</									

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF**

DAY	STATION	PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	LOW CLOUD			CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST			
						DIRECTION	SPEED						CL	h	C _L	C _M	C _H	LOW	MIDDLE	HIGH					DIRECTION	SPEED
LST.	Mbs.	"F	"F	"F	*x10	Kts.																				
21	01	0104	51	29	25	00	00	R1	2	1	02	0	0	0	9	0	8	9	9	6	6					
21	04	0068	51	29	25	00	00	R1	1	02	0	0	0	0	9	9	7	2	6	6						
21	07	0058	35	33	29	12	07	R1	8	70	2	0	0	0	9	9	7	2	6	6						
21	10	0045	35	33	34	32	12	R1	8	70	7	2	0	0	9	9	7	2	6	6						
21	13	006	35	35	35	13	12	R1	8	70	4	9	0	0	9	9	7	2	6	6						
21	16	9966	57	37	37	15	12	R1	9	53	4	9	0	0	9	9	7	2	6	6						
21	19	9930	40	40	40	03	04	R3	9	45	5	9	0	0	9	9	7	2	6	6						
21	22	9875	39	39	39	10	10	R3	9	45	5	9	0	0	9	9	7	2	6	6						
22	01	9817	40	40	40	09	08	R3	8	55	4	8	6	0	9	9	7	2	6	6						
22	04	9759	40	40	40	00	00	R3	8	45	5	9	0	0	9	9	7	2	6	6						
22	07	9722	41	41	41	14	08	R1	9	45	5	9	0	0	9	9	7	2	6	6						
22	10	9683	41	41	41	00	00	R1	9	45	5	9	0	0	9	9	7	2	6	6						
22	13	9650	41	41	41	15	05	R0	9	47	4	9	0	0	9	9	7	2	6	6						
22	16	9629	40	40	40	00	00	R0	12	8	63	6	8	7	2	2	2	2	2	2						
22	19	9630	41	41	40	39	21	R0	16	61	6	8	7	2	2	2	2	2	2	2						
22	22	9656	57	37	37	21	10	R0	16	61	6	8	7	2	2	2	2	2	2	2						
23	01	9701	56	35	35	20	15	R1	12	8	61	6	8	7	3	3	3	3	3	3						
23	04	9749	35	35	35	20	30	R1	12	8	60	6	8	7	3	3	3	3	3	3						
23	07	9803	32	31	29	23	21	R1	8	71	6	8	7	4	0	0	0	0	0	0						
23	10	9854	52	30	26	24	12	R0	7	85	8	7	8	4	0	0	0	0	0	0						
23	13	9887	33	31	27	26	18	R1	6	26	8	6	8	4	0	0	0	0	0	0						
23	16	9917	32	29	23	26	14	R1	8	72	6	8	7	4	0	0	0	0	0	0						
23	19	9944	32	29	26	25	07	R0	7	50	5	7	5	4	0	0	0	0	0	0						
24	02	9948	53	31	27	29	08	R1	2	01	1	2	5	4	0	0	0	0	0	0						
24	01	9950	53	33	29	34	10	R0	8	02	1	2	5	5	0	0	0	0	0	0						
24	04	9891	57	35	32	34	22	R1	16	81	9	8	7	5	5	0	0	0	0	0	0					
24	07	9861	41	41	41	31	20	R0	20	25	8	8	7	4	0	0	0	0	0	0						
24	10	9870	41	41	41	28	18	R0	2	62	6	8	7	1	0	0	0	0	0	0						
24	13	9898	39	37	34	25	20	R0	7	21	6	1	5	3	0	0	0	0	0	0						
24	16	9932	38	36	33	26	12	R0	8	03	1	5	8	4	3	0	0	0	0	0	0					
24	19	9951	37	35	34	29	08	R0	2	01	1	2	5	5	0	0	0	0	0	0						
24	22	9956	39	37	37	30	13	R0	2	02	1	2	5	5	0	0	0	0	0	0						
25	01	9958	40	38	35	29	15	R0	8	03	2	2	5	5	0	0	0	0	0	0						
25	04	9952	39	38	37	31	15	R1	8	01	1	1	5	5	0	0	0	0	0	0						
25	07	9944	40	38	38	35	20	R1	7	03	2	2	7	7	0	0	0	0	0	0						
25	10	9934	41	38	33	32	20	R0	8	02	2	2	8	5	5	5	5	5	5	5						
25	13	9897	40	38	35	34	18	R0	8	63	6	8	7	3	0	0	0	0	0	0						
25	16	9863	41	39	36	35	26	R0	6	64	8	10	2	8	5	5	5	5	5	5						
25	19	9828	39	39	39	30	28	R0	5	60	6	5	7	3	0	0	0	0	0	0						
25	22	9849	39	38	37	29	17	R0	7	02	6	7	5	5	5	5	5	5	5	5						
26	01	9860	36	36	36	27	18	R0	8	81	8	8	8	4	0	0	0	0	0	0						
26	04	9891	36	35	33	26	30	R0	7	25	8	8	8	4	0	0	0	0	0	0						
26	07	9829	37	35	32	27	13	R0	8	02	2	2	8	5	5	5	5	5	5	5						
26	10	9937	38	38	33	29	10	R0	8	62	6	8	7	0	0	0	0	0	0	0						
26	13	9902	39	38	37	31	22	R0	8	61	6	8	7	3	0	0	0	0	0	0						
26	16	9901	40	40	40	29	22	R0	8	44	6	8	7	3	0	0	0	0	0	0						
26	19	9897	41	41	41	30	27	R0	9	45	5	9	0	0	0	0	0	0	0	0						
26	22	9879	42	42	41	40	30	R1	16	80	8	7	4	4	0	0	0	0	0	0						
27	01	9902	41	41	40	30	17	R0	8	63	6	8	7	4	0	0	0	0	0	0						
27	04	9922	39	38	37	29	11	R1	24	5	14	6	6	7	4	0	0	0	0	0						
27	07	9914	40	39	38	38	18	R0	8	64	6	8	7	3	0	0	0	0	0	0						
27	10	9880	42	42	42	31	40	R0	8	63	6	8	7	1	0	0	0	0	0	0						
27	13	9895	40	40	40	27	40	R0	8	02	6	8	7	4	0	0	0	0	0	0						
27	16	9929	39	37	34	28	12	R0	7	02	2	2	4	8	4	3	0	0	0	0						
27	19	9935	38	38	38	32	07	R0	8	50	5	8	8	4	3	0	0	0	0	0						
27	22	9920	40	40	40	32	18	R0	8	61	5	8	7	3	0	0	0	0	0	0						
28	01	9903	41	40	39	31	20	R1	16	7	61	6	7	7	3	0	0	0	0	0						
28	04	9865	42	42	41	40	25	R0	8	52	5	8	7	2	0	0	0	0	0	0						
28	07	9834	41	40	39	31	22	R0	8	63	6	8	7	2	0	0	0	0	0	0						
28	10	9920	41	41	40	39	30	R0	7	02	2	2	7	6	4	0	0	0	0	0						
28	13	9804	41	41	41	30	25	R1	16	8	63	6	8	7	3	0	0	0	0	0						
28	16	9814	41	40	39	30	21	R1	7	10	6	6	7	3	0	0	0	0	0	0						
28	19	9807	40	39	38	31	14	R0	8	14	6	8	7	4	0	0	0	0	0	0						
28	22	9799	38	38	37	30	12	R0	5	01	6	5	4	0	0	0	0	0	0							
29	01	9800	38	37	35	31	08	R0	6	02	2	6	5	4	0	0	0	0	0	0						
29	04	9814	38	37	35	30	25	R0	7	02	2	7	6	4	0	0	0	0	0	0						
29	07	9808	32	30	17	15	80	R0	8	22	7	8	5	5	5	5	5	5	5	5						
29	10	9915	35	31	27	17	02	R1	8	02	2	7	5	5	5	5	5	5	5	5						
29	13	9923	34	31	25	27	06	R1	7	02	2	7	5	5	5	5	5	5	5	5						
29	16	9911	34	32	28	31	12	R1	8	02	2	8	5													

RESULTS OF SURFACE OBSERVATIONS AT														MACQUARIE ISLAND FOR THE MONTH OF JULY 1951										
DAY	HOUR	STATION LEVEL PRESSURE			WIND		DEW POINT	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	CLOUD DIRECTION			MAXIMUM GUST	ANEMOMETER	MAXIMUM WIND SPEED	SUNSHINE							
		LST.	Mbs.	"F	"F	"F					DIRECTION	SPEED	LOW CLOUD	PAST WEATHER	AMOUNT	TYPE	HEIGHT	MIDDLE CLOUD	HIGH CLOUD	LOW	MIDDLE	HIGH		
31	0 1	9 7 7 8	5 6	3 5	3 3	1 8	0 3	8 0	1	0 1	1	1	5	5	2	0	0	0	0	0	0	0	0	0
31	0 4	9 8 4 4	3 4	3 2	2 8	1 8	2 0	8 0	4	2 5	2	2	8	8	0	0	0	0	0	0	0	0	0	0
31	0 7	9 9 0 5	3 2	3 1	2 9	1 7	2 0	4 0	8	7 2	2	2	8	8	0	0	0	0	0	0	0	0	0	0
31	1 0	9 9 7 6	3 1	2 9	2 5	1 8	1 9	4 8	8	2 6	7	7	8	7	7	4	4	4	4	4	4	4	4	4
31	1 3	0 0 1 5	3 0	2 8	2 4	1 6	0 9	8 0	8	0 2	2	2	7	7	7	4	4	4	4	4	4	4	4	4
31	1 6	0 0 4 4	3 0	2 9	2 7	2 1	1 1	8 0	7	0 2	1	1	4	4	6	3	3	0	0	0	0	0	0	0
31	1 9	0 0 5 5	3 1	2 8	2 2	2 5	1 5	8 0	4	0 1	2	2	5	5	6	3	3	0	0	0	0	0	0	0
31	2 2	0 0 4 0	3 7	3 6	3 4	3 0	2 0	8 0	7	0 2	1	1	4	4	6	3	3	0	0	0	0	0	0	0

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF AUGUST 1951																								
DAY	HOUR	STATION LEVEL PRESSURE	WIND		DEW POINT	DIRECTION	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER		MAXIMUM GUST						
			DRY BULB	WET BULB						AMOUNT	PAST WEATHER	LOW CLOUD	MIDDLE CLOUD	HIGH CLOUD	TYPE	HEIGHT	POINTS	MILES	*x10 Kts.	SPEED	SUNSHINE			
LST.	Mbs.	"F	"F	"F	"x10	Kts.	VV	Oktas	ww	W	Oktas	C _L	C _M	C _H	C _L	C _M	C _H	"F	"F	Direction	Speed	Hours		
01	0 1	0 0 0 6	5 3	5 7	3 5	3 0	2 6	1 6	8	6 2	5	8	6	2	7	7	7	4 1	3 5	0 0 0 8	4 2 4	2 9	3 7	0 2 8
01	0 4	0 9 0 3	4 0	4 0	4 0	2 9	3 5	0 8	8	5 1	5	8	6	2	7	7	7							
01	0 7	0 0 1 4	5 8	3 6	3 3	2 5	3 0	8 0	3	0 1	5	3	4	5	5	5	5							
01	1 0	0 0 5 1	5 7	3 4	2 9	2 5	2 0	8 1	4	0 2	1	4	5	5	5	5	5							
01	1 3	0 0 8 1	5 6	3 2	2 4	2 5	1 5	8 1	7	0 3	1	1	5	5	5	5	5							
01	1 6	0 0 9 7	5 6	3 3	2 7	2 7	1 0	8 1	7	0 2	2	3	3	5	5	5	5							
01	1 9	0 0 9 9	5 7	3 7	3 7	3 0	0 6	0 8	8	5 3	7	7	4	4	7	7	7							
02	0 1 0 4	3 9	3 9	3 9	2 7	1 5	0 6	8	5 1	5	8	6	2	7	7	7	7							
02	0 1 1 9	4 0	3 9	3 9	2 7	1 9	2 4	8	5 1	5	8	6	2	7	7	7	7							
02	0 1 2 7	3 9	3 9	3 9	2 8	1 4	2 0	8	5 1	5	8	5	5	5	5	5	5							
02	0 1 3 2	3 9	3 9	3 9	2 8	1 4	4 8	8	1 0	5	8	7	4	7	7	7	7							
02	1 0	0 1 3 9	4 0	3 9	3 9	3 0	0 8	8	0 2	5	8	6	2	7	7	7	7							
02	1 3	0 1 2 9	4 0	4 0	4 0	3 1	2 0	4 0	8	5 0	5	8	7	2	7	7	7							
02	1 6	0 1 2 7	4 0	4 0	4 0	3 1	2 0	4 0	8	0 2	5	8	7	2	7	7	7							
02	1 9	0 1 3 3	4 0	4 0	4 0	3 0	1 0	1 6	8	5 0	5	8	7	3	7	7	7							
02	2 2	0 1 2 8	4 1	4 0	3 9	3 1	2 0	4 0	8	2 0	5	8	6	4	7	7	7							
03	0 1 1 9	4 1	4 1	4 1	3 2	2 2	3 2	8	5 0	6	8	7	4	7	7	7	7							
03	0 1 1 2	4 1	4 0	4 0	3 2	2 0	0 8	8	6 0	6	8	7	4	7	7	7	7							
03	1 0	0 0 9 2	4 1	4 1	4 1	3 1	2 0	0 4	8	5 5	5	8	6	2	7	7	7							
03	1 3	0 0 7 9	4 2	4 1	4 0	3 1	2 0	0 4	8	2 0	5	8	6	3	7	7	7							
03	1 6	0 0 6 4	4 2	4 2	4 2	3 1	1 7	2 0	8	2 0	5	8	6	2	7	7	7							
03	1 9	0 0 4 5	4 3	4 2	4 2	3 4	1 8	0 8	8	5 5	5	8	6	2	7	7	7							
03	2 2	0 0 1 8	4 3	4 3	4 3	3 4	2 9	0 8	8	5 3	5	8	7	2	7	7	7							
04	0 1 1 9	4 2	4 2	4 2	3 2	3 2	1 5	0 8	8	5 3	6	8	7	2	7	7	7							
04	0 7	0 1 0 9	4 2	4 2	4 2	3 2	2 0	0 1	9	4 7	5	9	0	0	9	9	9							
04	1 0	0 9 6 9	4 2	4 2	4 2	3 1	2 6	0 2	8	5 8	4	8	7	2	7	7	7							
04	1 3	0 9 8 4	4 1	4 1	4 1	3 0	1 8	0 4	8	5 3	4	8	7	2	7	7	7							
04	1 6	0 9 9 1	4 1	4 0	3 9	3 1	1 2	1 6	8	1 0	5	8	5	4	7	7	7							
04	1 9	0 9 9 4	4 2	4 1	4 0	3 0	1 6	3 2	8	1 0	5	8	5	5	7	7	7							
04	2 2	0 9 9 8	4 1	4 0	3 9	2 9	1 6	3 2	8	5 0	5	8	5	5	7	7	7							
05	0 0 0 5	4 2	4 1	4 0	2 9	1 5	4 0	8	5 0	5	8	6	4	6	6	6	6							
05	0 0 1 6	4 0	4 0	4 0	2 9	1 1	1 6	8	5 5	5	8	6	4	6	6	6	6							
05	0 0 1 8	3 9	3 9	3 9	2 9	0 7	0 1	9	4 7	4	8	7	0	9	9	9	9							
05	0 0 2 9	3 8	3 8	3 8	0 0	0 0	0 1	9	4 5	4	8	7	0	9	9	9	9							
05	0 0 1 1	3 7	3 7	3 7	1 3	1 5	0 1	9	4 5	5	8	6	0	9	9	9	9							
05	0 0 0 1	3 6	3 6	3 6	2 2	2 2	0 4	9	4 3	5	8	6	0	9	9	9	9							
05	0 9 7 8	3 7	3 7	3 7	1 3	2 5	0 2	9	4 3	5	8	6	0	9	9	9	9							
05	0 9 6 4	3 9	3 9	3 9	2 9	2 9	0 1	9	4 7	5	8	7	2	9	9	9	9							
06	0 1 9 5	4 0	4 0	4 0	0 9	0 6	0 4	8	5 5	5	8	7	2	9	9	9	9							
06	0 6	0 9 9 1	3 7	3 7	3 7	0 9	0 6	0 2	9	4 7	5	8	7	2	9	9	9							
06	1 3	0 9 9 7	3 8	3 8	3 8	2 5	1 4	0 2	8	5 5	5	8	6	2	7	7	7							
06	1 9	0 9 9 6	3 6	3 6	3 6	2 2	0 4	1 2	7	5 2	5	8	6	2	7	7	7							
06	2 2	0 9 1 8	3 6	3 6	3 6	0 0	0 0	2 4	7	1 0	5	8	7	3	0	0	0							
07	0 1 0 7	3 4	3 4	3 4	1 2	1 5	0 4	7	0 3	5	7	7	4	0	0	0	0							
07	0 4 0 9	3 4	3 4	3 4	1 2	1 5	2 4	8	5 0	5	8	7	4	0	0	0	0							
07	0 7 0 7	3 5	3 5	3 5	1 3	1 6	0 6	8	5 3	6	8	7	1	0	0	0	0							
07	1 0 0 0	3 5	3 5	3 5	2 5	2 5	0 2	8	5 3	6	8	7	2	9	9	9	9							
07	1 3	0 9 9 1	4 1	4 1	4 1	3 1	0 2	2 4	8	6 1	6	8	7	3	7	7	7							
07	1 6	0 9 6 5	4 2	4 1	4 0	3 6	0 2	3 2	8	6 1	6	8	7	2	9	9	9							
07	1 9	0 9 6 8	4 1	4 1	4 1	3 4	0 4	2 4	8	6 2	6	8	7	2	9	9	9							
07	2 2	0 9 8 5	4 1	4 1	4 1	0 0	0 0	1 6	8	6 1	5	8	7	2	9	9	9							
08	0 1 9 2	4 1	4 1	4 1	3 5	0 3	0 8	8	5 9	5	8	7	2	9	9	9	9							
08	0 4 0 7	3 5	3 5	3 5	2 9	0 9	0 2	8	4 4	4	8	6	3	0	0	0	0							
08	0 7 0 7	3 6	3 5	3 3	1 2	1 4	8 1	8	4 4	4	8	6	3	0	0	0	0							
08	1 0 0 1	3 5	3 5	3 5	1 3	1 0	0 4	8	4 6	5	8	6	4	0	0	0	0							
08	1 3 0 9 7 5	3 8	3 8	3 8	1 2	0 4	0 8	8	4 2	4	8	6	4	0	0	0	0							
08	1 6 0 9 7 5	3 7	3 7	3 7	1 4	0 9	0 2	9	4 7	4	8	6	4	0	0	0	0							
08	2 2 0 9 7 5	3 7	3 7	3 7	0 9	0 4	0 4	8	4 4	4	8	6	3	0	0	0	0							
09	0 1 9 7 4 1	3 7	3 7	3 7	1 2	0 8	0 8	8	4 4	4	8	6	3	0	0	0	0							
09	0 4 0 7 1 5	3 9	3 8	3 7	1 0	1 5	0 8	8	4 4	4	8	6	3	0	0	0	0							

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF AUGUST 1951																												
DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	LOW CLOUD	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST							
						DIRECTION	SPEED							CLOUD	LOW	MIDDLE	HIGH				DIRECTION	SPEED						
LST.	Mbs.	"F	"F	"F	"F	"x10	Kts.	VV	Oktas	vv	w	Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.	Hours		
11	0 1	9 5 9 1	3 9	3 9	3 9	2 6	1 0	0 4	8	6 3	4	8	7	2	2	2	6	6	9	6	6	2 4	6 0	0 0 0				
11	0 4	9 5 8 3	3 8	3 8	3 8	2 8	1 7	0 8	8	6 3	6	8	7	2	2	2	5	5	9	5	5	2 4	6 0	0 0 0				
11	0 7	9 5 7 5	3 4	3 4	3 4	2 6	2 2	0 1	8	7 3	6	8	7	2	2	2	5	5	9	5	5	2 4	6 0	0 0 0				
11	1 0	9 5 9 0	3 2	3 1	3 1	2 9	2 5	0 1	8	7 5	7	8	7	1	2	2	5	5	9	5	5	2 4	6 0	0 0 0				
11	1 3	9 6 0 9	3 1	3 0	2 8	2 4	3 5	0 1	8	7 5	7	8	7	1	2	2	5	5	9	5	5	2 4	6 0	0 0 0				
11	1 6	9 6 3 6	2 9	2 8	2 6	2 4	4 0	1 2	8	7 2	7	8	9	3	2	2	5	5	9	5	5	2 4	6 0	0 0 0				
11	1 9	9 6 6 3	3 0	3 0	3 0	2 5	4 0	0 1	8	8 6	7	9	4	5	4	2	6	6	9	5	5	2 4	6 0	0 0 0				
11	2 2	9 6 8 9	3 1	3 0	2 8	2 2	4 0	0 4	8	7 5	7	8	8	0	5	5	5	5	9	5	5	3 9	2 8	0 0 4 6	5 3 4	2 4	6 0	0 0 0
12	0 1	9 7 0 5	3 0	2 9	2 7	2 2	3 5	0 8	8	7 2	7	8	8	0	5	5	5	5	9	5	5	3 0	2 4	0 0 0 8	4 1 1	1 8	5 0	0 0 0
12	0 4	9 7 3 2	2 9	2 9	2 6	1 8	3 0	0 8	8	7 0	7	8	7	4	4	2	6	6	9	5	5	3 0	2 4	0 0 0 8	4 1 1	1 8	5 0	0 0 0
12	0 7	9 7 6 3	2 9	2 6	1 8	3 0	0 8	0 8	8	7 0	7	8	7	4	4	2	6	6	9	5	5	3 0	2 4	0 0 0 8	4 1 1	1 8	5 0	0 0 0
12	1 0	9 7 9 3	3 0	2 9	2 7	1 5	2 5	2 4	8	8 5	7	8	7	3	3	2	6	6	9	5	5	3 0	2 4	0 0 0 8	4 1 1	1 8	5 0	0 0 0
12	1 3	9 8 2 4	2 9	2 8	2 6	1 7	1 6	2 0	8	8 5	7	8	7	4	4	2	6	6	9	5	5	3 0	2 4	0 0 0 8	4 1 1	1 8	5 0	0 0 0
12	1 6	9 8 5 3	2 7	2 7	2 7	1 7	1 6	2 4	8	8 5	7	8	7	4	4	2	6	6	9	5	5	3 0	2 4	0 0 0 8	4 1 1	1 8	5 0	0 0 0
12	1 9	9 8 7 7	2 5	2 4	2 2	2 0	1 0	1 6	8	8 5	7	8	7	4	4	2	6	6	9	5	5	3 0	2 4	0 0 0 8	4 1 1	1 8	5 0	0 0 0
12	2 2	9 8 9 8	2 5	2 4	2 2	1 8	0 5	1 2	8	8 6	7	8	9	4	4	2	6	6	9	5	5	3 0	2 4	0 0 0 8	4 1 1	1 8	5 0	0 0 0
13	0 1	9 9 1 0	2 6	2 5	2 3	1 8	0 5	1 2	8	8 6	7	8	9	4	4	2	6	6	9	5	5	3 2	2 5	0 0 0 8	4 8 2	1 7	3 9	0 0 0
13	0 4	9 9 2 2	2 7	2 5	2 1	1 7	1 5	1 2	8	8 5	7	8	9	4	4	2	6	6	9	5	5	3 2	2 5	0 0 0 8	4 8 2	1 7	3 9	0 0 0
13	0 7	9 9 4 0	2 7	2 5	2 1	1 7	1 5	1 2	8	8 5	7	8	9	4	4	2	6	6	9	5	5	3 2	2 5	0 0 0 8	4 8 2	1 7	3 9	0 0 0
13	1 0	9 9 5 8	2 9	2 8	2 6	1 6	1 5	0 8	8	7 1	7	8	9	4	4	2	6	6	9	5	5	3 2	2 5	0 0 0 8	4 8 2	1 7	3 9	0 0 0
13	1 3	9 9 6 3	3 0	2 9	2 9	1 6	1 4	0 8	8	7 0	7	8	9	4	4	2	6	6	9	5	5	3 2	2 5	0 0 0 8	4 8 2	1 7	3 9	0 0 0
13	1 6	9 9 7 7	3 0	2 9	2 7	1 7	1 5	1 6	8	5 8	7	8	9	4	4	2	6	6	9	5	5	3 2	2 5	0 0 0 8	4 8 2	1 7	3 9	0 0 0
13	1 9	9 9 9 7	3 0	3 0	3 0	1 7	2 5	0 8	8	6 8	7	8	9	4	4	2	6	6	9	5	5	3 2	2 5	0 0 0 8	4 8 2	1 7	3 9	0 0 0
13	2 2	0 0 1 4	2 9	2 8	2 6	1 7	0 8	0 8	8	2 0	7	8	9	4	4	2	6	6	9	5	5	3 2	2 5	0 0 0 8	4 8 2	1 7	3 9	0 0 0
14	0 1	0 0 1 7	2 9	2 8	2 6	1 7	1 0	0 8	8	7 0	2	7	7	4	4	2	6	6	9	5	5	3 5	2 8	0 0 0 9	3 9 7	1 7	2 1	0 1 5
14	0 4	0 0 1 8	2 9	2 9	2 7	1 7	1 5	0 8	8	7 0	2	7	7	4	4	2	6	6	9	5	5	3 5	2 8	0 0 0 9	3 9 7	1 7	2 1	0 1 5
14	0 7	0 0 2 5	3 3	3 3	3 3	1 7	0 9	0 8	8	8 0	2	7	7	4	4	2	6	6	9	5	5	3 5	2 8	0 0 0 9	3 9 7	1 7	2 1	0 1 5
14	1 0	0 0 2 5	3 4	3 3	3 1	1 7	1 0	2 4	8	6 8	5	7	7	4	4	2	6	6	9	5	5	3 5	2 8	0 0 0 9	3 9 7	1 7	2 1	0 1 5
14	1 3	0 0 1 7	3 4	3 3	3 1	1 7	1 0	4 0	8	7 2	7	7	7	4	4	2	6	6	9	5	5	3 5	2 8	0 0 0 9	3 9 7	1 7	2 1	0 1 5
14	1 6	0 0 2 0	3 5	3 2	3 0	1 7	1 0	4 0	8	5 0	5	7	7	4	4	2	6	6	9	5	5	3 5	2 8	0 0 0 9	3 9 7	1 7	2 1	0 1 5
14	1 9	0 0 2 6	3 5	3 2	3 0	1 7	1 5	1 6	8	6 8	7	7	7	4	4	2	6	6	9	5	5	3 5	2 8	0 0 0 9	3 9 7	1 7	2 1	0 1 5
14	2 2	0 0 3 5	3 5	3 4	3 2	1 7	0 8	1 6	8	6 8	7	7	7	4	4	2	6	6	9	5	5	3 5	2 8	0 0 0 9	3 9 7	1 7	2 1	0 1 5
15	0 1	0 0 3 4	3 4	3 3	3 1	1 7	1 5	4 0	8	7 0	2	7	7	4	4	2	6	6	9	5	5	3 6	3 1	0 0 0 1	1 6 9	1 8	2 3	0 0 0
15	0 4	0 0 4 1	3 4	3 3	3 1	1 7	1 2	2 4	8	5 0	1	2	3	5	4	0	6	6	9	5	5	3 6	3 1	0 0 0 1	1 6 9	1 8	2 3	0 0 0
15	0 7	0 0 5 4	3 5	3 4	3 2	1 6	1 2	2 4	8	6 1	2	3	5	4	0	0	6	6	9	5	5	3 6	3 1	0 0 0 1	1 6 9	1 8	2 3	0 0 0
15	1 0	0 0 6 7	3 6	3 5	3 3	1 6	1 0	6 4	8	0 2	2	2	2	2	2	0	6	6	9	5	5	3 6	3 1	0 0 0 1	1 6 9	1 8	2 3	0 0 0
15	1 3	0 0 8 3	3 5	3 4	3 2	1 7	0 2	8 0	8	0 2	2	2	2	2	2	0	6	6	9	5	5	3 6	3 1	0 0 0 1	1 6 9	1 8	2 3	0 0 0
15	1 6	0 1 0 4	3 4	3 4	3 4	1 5	0 4	8 0	8	0 2	2	2	2	2	2	0	6	6	9	5	5	3 6	3 1	0 0 0 1	1 6 9	1 8	2 3	0 0 0
15	1 9	0 1 2 4	3 4	3 3	3 1	1 4	0 7	8 0	8	0 2	2	2	2	2	2	0	6	6	9	5	5	3 6	3 1	0 0 0 1	1 6 9	1 8	2 3	0 0 0
15	2 2	0 1 5 1	3 4	3 3	3 1	1 6	0 6	8 0	8	0 1	2	2	2	2	2	0	6	6	9	5	5	3 6	3 1	0 0 0 1	1 6 9	1 8	2 3	0 0 0
16	0 1	0 1 5 0	3 4	3 3	3 2	2 2	0 5	8 0	8	0 1	2	2	2	2	2	0	6	6	9	5	5	3 6	3 1	0 0 0 1	1 6 9	1 8	2 3	0 0 0
16	0 4	0 1 7 8	3 1	3 0	2 8	2 3	0 5	8 0	8	0 2	2	2	2	2	2	0	6	6	9	5	5	3 6	3 1	0 0 0 1	1 6 9	1 8	2 3	0 0 0
16	0 7	0 1 7 5	3 0	3 0	2 9	2 2	0 1	8 0	8	0 2	2	2	2	2	2	0	6	6	9	5	5	3 6	3 1	0 0 0 1	1 6 9	1 8	2 3	0 0 0
16	1 0	0 1 7 6	3 0	3 0	2 9	2 2	0 1	8 0	8	0 2	2	2	2	2	2	0	6	6	9	5	5	3 6	3 1	0 0 0 1	1 6 9	1 8	2 3	0 0 0
16	1 3	0 1 7 9	3 0	3 0	2 9	2 2	0 1	8 0	8	0 2	2	2	2	2	2	0	6	6	9	5	5</							

**RESULTS OF SURFACE OBSERVATIONS AT
MACQUARIE ISLAND
FOR THE MONTH OF AUGUST 1951**

RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF MACQUARIE ISLAND
AUGUST 1951

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD	CLOUD DIRECTION	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEROMETER	MAXIMUM GUST		SUNSHINE	
						DIRECTION	SPEED											DIRECTION	SPEED		
31	0 1	9 9 1 7	5 3	3 1	2 7	2 4	3 2	8 0	5	2 6	7	5	3	4	4	4	0	0	0	0	
31	0 4	9 9 3 8	5 4	3 2	2 8	2 5	2 0	4 0	6	2 6	7	6	9	9	4	0	0	0	0	0	
31	0 7	9 9 2 7	5 5	3 3	2 9	2 8	2 0	4 0	8	8 6	7	6	8	8	4	0	0	0	0	0	
31	1 0	9 9 8 6	5 8	3 7	3 5	2 9	2 0	3 2	8	6 2	6	3	7	0	5	5	5	6	6	6	
31	1 3	9 9 4 5	5 7	3 7	3 7	2 8	3 0	0 8	8	6 3	6	6	8	0	0	0	0	0	0	0	
31	1 6	9 9 6 8	5 7	3 6	3 4	2 6	2 5	8 0	7	2 1	7	2	2	0	5	5	5	6	6	6	
31	1 9	9 9 1 4	5 7	3 5	3 2	2 5	2 8	4 0	6	8 5	9	6	3	3	3	3	3	0	0	0	
31	2 2	9 9 6 4	5 8	3 7	3 5	2 5	2 8	0 8	6	8 4	6	6	6	6	6	6	6	6	6	6	

**RESULTS OF SURFACE OBSERVATIONS AT
MACQUARIE ISLAND
FOR THE MONTH OF SEPTEMBER 1951**

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF SEPTEMBER 1951																MAXIMUM GUST										
DAY	HOUR	STATION LEVEL PRESSURE	WIND				VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	CLOUD DIRECTION				MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST								
			DRY BULB	WET BULB	DEW POINT	DIRECTION				LOW	MIDDLE	HIGH	LOW	MIDDLE	HIGH	DIRECTION	SPEED									
LST.	Mts.	"F	"F	"F	"x10	Kts.	VV	Oktas	ww	Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.	Hours		
11	0 1	0 1 0 8	3 9	3 4	2 4	2 5	3 0	8 0	6	0 2	8	6	8	4	0	0	6	6	6	6	9 2 9	2 9	4 7	0 0 0		
11	0 4	0 1 2 0	3 9	3 5	2 8	2 6	2 6	8 0	6	0 2	2	6	8	4	0	0	6	6	6	6						
11	0 7	0 1 2 0	4 0	3 7	3 2	2 8	2 8	8 0	6	0 2	2	1	4	4	3	0	8	6	6	6						
11	1 0	0 0 8 8	4 2	4 0	3 7	3 0	3 7	6 4	8	1 8	2	6	5	5	0	8	7	6	6	6						
11	1 3	0 0 4 7	4 4	4 4	4 4	2 9	3 5	4 8	8	1 8	2	8	7	4	6	6	6	6	6	6						
11	1 6	0 0 5 6	4 4	4 4	4 4	2 8	3 4	5 6	8	1 8	2	8	7	4	6	6	6	6	6	6						
11	1 9	0 0 5 5	4 3	4 3	4 3	2 9	3 2	3 2	8	5 3	5	8	7	4	7	7	7	7	7	7						
11	2 2	0 0 3 3	4 4	4 4	4 4	3 0	5 1	2 4	8	5 3	5	8	7	4	7	7	7	7	7	7						
12	0 1	9 9 9 8	4 4	4 4	4 4	3 1	3 5	1 6	8	5 0	5	8	7	4	7	7	7	7	7	7						
12	0 4	9 9 5 0	4 5	4 5	4 5	5 0	4 2	2 4	8	5 0	5	8	7	4	7	7	7	7	7	7						
12	0 7	9 9 1 2	4 5	4 5	4 5	5 0	4 2	2 4	8	5 0	5	8	7	4	7	7	7	7	7	7						
12	1 0	9 9 2 0	4 0	3 9	3 9	2 7	3 4	1 6	8	6 0	6	8	0	5	2	2	5	5	5	5						
12	1 3	9 9 1 6	4 0	3 7	3 7	2 7	4 0	2 4	8	6 0	2	8	0	5	2	8	5	6	6	6						
12	1 6	9 9 5 5	3 9	3 7	3 7	2 4	3 5	4 8	8	8 0	8	5	8	5	2	8	5	6	6	6						
12	1 9	9 9 9 6	3 9	3 2	3 2	2 8	2 6	3 5	8	8 0	8	5	8	5	2	8	5	6	6	6						
12	2 2	0 0 3 0	3 3	3 1	2 7	2 5	3 4	6 4	8	2 6	7	6	8	5	0	0	0	6	6	6						
13	0 1	0 0 7 5	5 5	3 2	2 4	2 6	3 5	8 0	6	2 6	7	6	2	4	0	0	0	6	6	6						
13	0 4	0 1 1 8	3 5	3 1	2 3	2 5	3 5	8 0	4	2 6	8	4	8	4	0	0	0	6	6	6						
13	0 7	0 1 5 6	3 5	3 5	3 5	2 9	2 6	2 6	8	3 5	7	8	8	4	0	0	0	6	6	6						
13	1 0	0 1 8 6	3 7	3 3	3 3	2 5	2 5	2 8	8	8 0	2	8	5	5	4	0	0	6	6	6						
13	1 3	0 2 0 0	5 9	3 4	2 4	2 7	2 5	2 5	8	6 0	2	6	8	5	0	0	0	6	6	6						
13	1 6	0 2 1 0	3 9	3 5	3 5	2 7	2 5	2 5	8	8 0	8	5	8	5	3	0	0	6	6	6						
13	1 9	0 2 1 2	4 0	3 6	2 9	2 7	2 5	2 5	8	8 0	2	6	8	7	4	0	0	6	6	6						
13	2 2	0 2 0 0	4 1	3 7	3 0	2 9	3 2	3 2	8	7	2 5	2	7	8	5	5	7	7	7	7						
14	0 1	0 1 8 3	4 1	3 8	3 3	2 9	3 2	4 8	8	8 0	9	8	8	5	5	0	0	0	0	0	0	0 0 2	7 3 4	2 5	4 6	0 0 4
14	0 4	0 1 6 0	4 0	3 7	3 3	2 9	3 2	4 8	8	8 0	2	8	5	5	5	0	0	0	0	0	0					
14	0 7	0 1 3 2	4 1	3 8	3 3	3 0	3 0	3 0	8	8 0	2	2	3	5	5	1	8	7	6	6	6					
14	1 0	0 1 2 0	4 5	4 1	3 8	3 0	2 7	2 7	8	8 0	0	2	2	7	7	4	8	7	6	6	6					
14	1 3	0 0 8 6	4 2	4 2	4 2	3 9	2 5	2 5	8	8 0	0	1	0	0	0	0	0	6	6	6						
14	1 6	0 0 6 5	4 2	4 2	4 2	3 9	2 5	2 5	8	8 0	0	2	2	8	8	4	0	0	6	6						
14	1 9	0 0 3 2	4 2	4 2	4 2	3 9	2 5	2 5	8	8 0	0	2	2	8	8	4	0	0	6	6						
14	2 2	9 9 6 9	4 3	4 3	4 3	3 1	3 7	4 8	8	8 0	9	8	8	0	0	0	0	6	6	6						
15	0 1	9 9 3 2	4 3	4 3	4 3	3 1	3 7	4 3	8	8 0	9	6	3	6	0	0	5	2	7	7						
15	0 4	9 8 9 3	4 3	4 3	4 3	3 1	4 0	1 6	8	6 1	6	8	0	0	0	0	0	7	7	7						
15	0 7	9 8 9 1	4 2	4 2	4 2	2 5	3 0	1 6	8	6 1	6	8	0	0	0	0	0	6	6	6						
15	1 0	9 9 1 1	3 9	3 8	3 7	2 7	2 5	2 5	8	6 0	6	8	0	0	0	0	0	6	6	6						
15	1 3	9 9 4 0	3 8	3 2	1 9	2 5	2 5	2 5	8	8 0	7	0	2	6	7	5	5	5	5	5						
15	1 6	9 9 5 5	3 8	3 5	3 2	2 3	2 6	2 6	8	8 0	7	0	2	2	6	6	5	5	5	5						
15	1 9	9 9 5 4	3 8	3 5	3 2	2 3	2 6	2 5	8	8 0	7	0	2	2	5	5	5	5	5	5						
15	2 2	9 9 5 6	3 8	3 4	3 4	2 6	2 7	2 7	8	8 0	8	1	0	0	0	0	0	6	6	6						
16	0 1	9 9 5 4	3 8	3 4	3 4	2 6	2 7	2 7	8	8 0	0	0	2	2	5	5	5	5	5	5						
16	0 4	9 9 8 0	3 7	3 7	3 7	2 9	2 7	2 7	8	8 0	0	1	0	1	3	8	8	4	0	0						
16	0 7	9 9 9 2	3 6	3 4	3 4	3 0	2 7	2 7	8	8 0	0	2	2	2	2	5	5	5	5	5						
16	1 0	0 0 1 5	3 7	3 2	2 2	2 5	3 0	2 5	8	8 0	0	1	7	0	2	7	5	5	5	5						
16	1 3	0 0 4 4	3 6	3 2	2 4	2 2	2 5	3 3	8	8 0	7	2	6	7	7	3	4	0	0	0						
16	1 6	0 0 8 0	3 6	3 3	2 7	2 5	2 5	3 5	8	8 0	1	5	2	6	7	5	5	5	5	5						
16	1 9	0 1 0 0	3 7	3 4	2 9	2 6	2 7	2 7	8	8 0	3	0	1	1	3	8	8	4	0	0						
16	2 2	0 0 8 4	3 8	3 5	3 0	3 0	3 0	3 0	8	8 0	0	2	2	2	2	5	5	5	5	5						
17	0 1	0 0 5 1	4 1	3 8	3 3	3 0	3 0	3 0	8	8 0	0	2	2	2	2	5	5	5	5	5						
17	0 4	9 9 9 9	4 2	4 1	4 0	3 0	3 0	3 0	8	8 0	0	2	2	2	2	5	5	5	5	5						
17	0 7	9 8 6 4	4 3	4 3	4 3	3 1	3 1	3 1	8	8 0	1	6	6	3	6	6	7	4	2	7						
17	1 0	9 8 2 8	3 7	3 7	3 7	2 9	2 9	2 9	8	8 0	1	6	1	5	8	8	7	3	5	6						
17	1 3	9 8 0 3	4 0	3 9	3 9	3 0	2 9	2 9	8	8 0	1	6	5	2	6	8	8	7	4	2						
17	1 6	9 7 6 3	4 1	3 8	3 3	2 8	2 8	4 0	1 6	8	5	2	5	8	5	7	4	0	0	0						
17	1 9	9 7 6 1	3 8	3 5	3 5	2 7	3 5	3 5	4 0	8	7	2	5	9	7	7	4	0	0	0						
18	0 1	9 7 9 9	3 5	3 2	2 6	2 4	3 5	3 2	1 6	8	6	2	6	6	8	8	4	0	0	0						
18	0 4	9 8 0 5	3 5	3 2	2 6	2 4	3 5	3 2	1 6	8	6	2	6	6	8	8	4	0	0	0						
18	0 7	9 7 8 0	3 3	3 0	2 6	2 4	3 0	1 6	8	8 0	0	2	6	7	7											

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF MACQUARIE ISLAND
SEPTEMBER 1951**

DAY	HOUR	STATION LEVEL PRESSURE	WIND		DEW POINT	DIRECTION	SPEED	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	FAST WEATHER	AMOUNT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST												
			DRY BULB	WET BULB									*x10	Kts.	VV	Oktas	WW	W	Oktas	C _L	h	CL	CM	CH	"F	"F	Points	Miles	DIRECTION	SPEED	SUNSHINE	
LST.	Mbs.	"F	"F	"F	"F	Kts.																										
1	0 1	9 7 8 0	55	50	3 8	3 7	2 7	4 0	1 6	8	6 2	6	0	7	4	4	4	4	2	2	2	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
1	0 4	9 7 7 0	40	40	3 8	4 0	2 7	4 2	0 8	8	6 1	6	0	0	4	4	4	4	2	2	2	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
1	0 7	9 7 7 9	40	40	3 9	4 0	2 7	4 4	0 8	8	6 0	6	0	0	4	4	4	4	2	2	2	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
1	1 0	9 7 9 1	40	40	3 9	4 0	2 7	4 5	1 6	8	6 0	6	0	0	4	4	4	4	2	2	2	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
1	1 3	9 7 9 7	40	40	3 9	4 0	2 7	4 0	0 8	8	6 3	6	0	0	4	4	4	4	2	2	2	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
1	1 6	9 7 9 7	40	40	3 9	4 0	2 7	4 0	0 8	8	6 3	6	0	0	4	4	4	4	2	2	2	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
1	1 9	9 8 0 6	55	50	3 7	3 7	2 7	4 0	0 8	8	5 2	5	0	0	4	4	4	4	2	2	2	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	2 2	9 8 2 8	55	50	3 5	3 5	2 9	2 3	2 5	4 0	8	6 0	6	0	0	4	4	4	4	2	2	2	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0
2	2 5	9 8 4 9	55	50	3 4	3 4	2 9	2 3	2 5	3 0	4 0	8	6 5	7	7	7	7	4	4	4	4	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	2 8	9 9 0 1	55	50	3 4	3 4	2 9	2 3	2 5	3 6	2 4	8	8 3	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	3 1	9 9 4 0	55	50	3 4	3 4	2 9	2 3	2 5	3 1	8 0	8	2 5	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	3 4	9 9 5 9	55	50	3 4	3 4	2 9	2 3	2 5	2 2	8 0	7	8 5	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	3 7	9 9 6 0	55	50	3 4	3 4	2 9	2 3	2 5	2 2	8 0	7	0 2	7	4	4	4	4	4	4	4	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	4 0	9 9 7 1	55	50	3 4	3 4	2 9	2 3	2 5	2 2	8 0	7	8 1	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	4 3	9 9 8 2	55	50	3 5	3 5	2 9	2 3	2 5	2 0	4 0	8	8 3	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	4 6	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	4 9	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	5 2	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	5 5	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	5 8	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	6 1	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	6 4	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	6 7	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	7 0	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	7 3	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	7 6	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	7 9	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	8 2	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	8 5	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	8 8	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	9 1	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	9 4	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	9 7	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	10 0	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	10 3	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	10 6	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	10 9	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	11 2	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	11 5	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	11 8	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8	8	8	8	8	8	5	9	5	41	31	0 0 0 8	719	27	60	0 0 0	
2	12 1	9 9 9 7	55	50	3 5	3 5	2 9	2 3	2 5	1 5	4 0	8	8 8	8	8	8</td																

**RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF OCTOBER 1951**

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF OCTOBER 1951																				
DAY	HOUR	STATION LEVEL PRESSURE	WIND			DEW POINT	DIRECTION	VISIBILITY	TOTAL CLOUD	CLOUD DIRECTION			MAXIMUM GUST	SUNSHINE						
			DRY BULB	WET BULB	DEW POINT SPEED					PAST WEATHER AMOUNT	TYPE	HEIGHT	MIDDLE							
	LST.	Mbs.	°F	°F	°F	*x10	Kts.	VV	Oktas	WW	W	Oktas	C _L	h	°F	Points	Miles	*x10	Kts.	Hours
11	0 1	0 0 1 4	3 7	3 6	3 4	2 8	3 0	4 0	0	8 0	8 0	8 0	8 0	8 0	5					
11	0 4	0 0 0 9	3 7	3 5	3 4	2 7	3 0	4 0	0	8 0	8 0	8 0	7 8	8 0	4					
11	0 7	0 0 3 1	3 6	3 2	2 4	2 6	2 0	4 0	0	8 0	8 0	8 0	7 8	8 0	4					
11	1 0	0 0 4 7	3 7	3 5	2 5	2 5	1 9	5 0	0	0 2	2 0	2 0	8 0	8 0	4					
11	1 3	0 0 5 4	3 7	3 4	2 9	2 1	2 5	6 0	0	0 2	2 0	2 0	8 0	8 0	4					
11	1 6	0 0 7 9	3 6	3 3	2 7	2 4	1 5	5 0	0	0 2	2 0	2 0	8 0	8 0	4					
11	1 9	0 0 9 2	3 6	3 3	2 7	2 7	1 6	6 0	0	2 5	1 6	1 6	8 0	8 0	4					
11	2 2	0 0 9 5	3 6	3 4	3 0	2 8	2 1	8 0	0	0 2	2 0	2 0	8 0	8 0	4					
12	0 1	0 0 9 0	3 7	3 5	3 2	3 0	2 0	8 0	0	5 0 1	2 2	2 2	8 0	8 0	4					
12	0 4	0 0 7 5	3 9	3 7	3 4	3 1	2 5	9 0	0	0 2	2 0	2 0	8 0	8 0	4					
12	0 7	0 0 7 9	4 1	3 8	3 3	3 0	2 5	8 0	0	0 2	2 0	2 0	8 0	8 0	4					
12	1 0	0 0 7 8	4 3	4 1	3 8	3 0	1 8	6 4	0	0 2	2 0	2 0	8 0	8 0	4					
12	1 3	0 0 8 1	4 2	4 1	4 0	2 8	1 6	2 4	0	1 0	1 0	1 0	8 0	8 0	4					
12	1 6	0 0 8 1	4 0	4 0	4 0	2 7	2 0	1 2	0	1 0	1 0	1 0	8 0	8 0	4					
12	1 9	0 0 8 7	4 0	3 9	3 8	2 8	2 0	8 0	0	5 1	5	5	6	7	2	6				
13	0 1	0 0 9 1	4 0	4 0	4 0	2 9	2 0	1 6	0	1 0	1 0	1 0	5 5	5 5	2	6				
13	0 4	0 0 8 9	4 0	3 9	3 8	2 8	2 1	3 2	0	2 0	1 0	1 0	5 5	5 5	2	6				
13	0 7	0 0 1 0	4 0	3 9	3 8	2 8	2 1	6 4	0	1 0	1 0	1 0	5 5	5 5	2	6				
13	1 0	0 0 9 8	4 0	3 9	3 8	3 0	2 4	6 4	0	1 0	1 0	1 0	5 5	5 5	2	6				
13	1 3	0 0 8 4	4 2	4 1	4 0	3 2	2 2	4 0	0	1 0	1 0	1 0	5 5	5 5	2	6				
13	1 6	0 0 8 1	4 1	4 0	3 9	2 9	2 0	4 0	0	1 0	1 0	1 0	5 5	5 5	2	6				
13	1 9	0 0 7 6	4 0	4 0	4 0	3 0	1 7	4 0	0	1 0	1 0	1 0	5 5	5 5	2	6				
13	2 2	0 0 7 2	4 1	4 0	3 9	3 2	1 8	2 4	0	1 0	1 0	1 0	5 5	5 5	2	6				
14	0 1	0 0 5 0	4 1	4 1	4 1	3 2	1 8	2 4	0	8 0	8 0	8 0	6 5	6 5	3	7				
14	0 4	0 0 5 6	4 0	4 0	4 0	3 2	1 0	0 0	0	9 4 5	4	4	9	0	0	9				
14	0 7	0 0 5 4	4 1	4 1	4 1	3 1	0 7	0 2	0	9 4 5	4	4	9	0	0	9				
14	1 0	0 0 4 2	4 1	4 1	4 1	3 1	1 3	4 6	0	8 0	8 0	8 0	6 5	6 5	3	7				
14	1 3	0 0 2 3	4 1	4 1	4 1	3 1	1 0	2 0	0	9 4 7	4	4	9	0	0	9				
14	1 6	0 0 9 1	4 2	4 2	4 2	3 4	0 9	1 2	0	8 0	8 0	8 0	6 2	6 2	2	7				
14	1 9	0 0 9 5	4 2	4 2	4 2	3 3	0 7	0 2	0	9 4 7	4	4	9	0	0	9				
14	2 2	0 0 9 3	4 1	4 1	4 1	3 1	0 7	0 2	0	9 4 5	4	4	9	0	0	9				
15	0 1	0 0 9 1	4 1	4 1	4 1	3 2	1 0	0 2	0	9 4 5	4	4	9	0	0	9				
15	0 4	0 0 8 9	4 1	4 1	4 1	3 3	2 0	0 2	0	9 6 0	4	4	9	0	0	9				
15	0 7	0 0 8 9	4 1	4 1	4 1	3 2	2 0	0 0	0	9 6 0	4	4	9	0	0	9				
15	1 0	0 0 8 3	4 2	3 9	3 4	3 1	2 0	2 0	0	8 0	8 0	8 0	6 0 2	6 0	5	4				
15	1 3	0 0 8 4	4 0	3 8	3 5	2 9	2 5	2 8	0	8 0	8 0	8 0	7 8 1	7	8	5				
15	1 6	0 0 9 1	3 4	3 2	2 8	2 7	1 5	6 4	0	8 0	8 0	8 0	8 0	8 0	5	5				
15	1 9	0 0 9 4	3 1	2 9	2 5	2 5	0 8	6 4	0	7 8	7 8	7 8	7 8	7 8	5	4				
15	2 2	0 0 9 4	3 0	2 7	2 1	2 5	1 2	4 8	0	7 8	7 8	7 8	7 8	7 8	5	4				
16	0 1	0 0 9 6	3 0	2 5	1 2	2 7	1 9	6 4	0	8 0	8 0	8 0	8 0	8 0	4	4				
16	0 4	0 0 9 5	3 0	2 8	2 4	2 8	1 9	5 6	0	8 0	8 0	8 0	8 0	8 0	4	4				
16	0 7	0 0 9 5	2 9	2 7	2 5	2 7	1 7	5 6	0	8 0	8 0	8 0	8 0	8 0	4	4				
16	1 0	0 0 9 6	3 0	2 7	2 1	2 5	2 0	8 0	0	8 0	8 0	8 0	8 0	8 0	4	4				
16	1 3	0 0 9 7	3 0	2 7	2 1	2 2	2 0	8 0	0	8 0	8 0	8 0	8 0	8 0	4	4				
16	1 6	0 0 0 8	3 0	2 5	1 2	2 1	0 9	8 0	0	8 0	8 0	8 0	8 0	8 0	4	4				
16	1 9	0 0 2 0	2 9	2 4	1 0	2 2	0 8	8 0	0	4 2 6	4	4	8	0	5	4				
17	0 1	0 0 2 1	2 8	2 4	1 3	1 9	1 2	8 0	0	8 0	8 0	8 0	8 0	8 0	4	4				
17	0 4	0 0 2 4	2 8	2 3	0 8	1 8	1 2	8 0	0	8 0	8 0	8 0	8 0	8 0	4	4				
17	0 7	0 0 3 3	2 8	2 4	1 3	1 8	1 5	8 0	0	6 1 5	8 0	8 0	8 0	8 0	5	4				
17	1 0	0 0 4 4	3 0	2 5	1 2	1 8	2 2	4 8	0	8 0	8 0	8 0	8 0	8 0	4	4				
17	1 3	0 0 5 8	2 9	2 5	1 5	1 8	1 5	8 0	0	8 0	8 0	8 0	8 0	8 0	4	4				
17	1 6	0 0 6 3	2 9	2 5	1 5	1 7	1 6	8 0	0	8 0	8 0	8 0	8 0	8 0	4	4				
17	1 9	0 0 7 6	2 9	2 5	1 5	2 0	1 6	8 0	0	8 0	8 0	8 0	8 0	8 0	4	4				
17	2 2	0 0 2 9	2 9	2 5	1 9	1 9	0 7	8 0	0	8 0	8 0	8 0	8 0	8 0	4	4				
18	0 1	0 0 1 0	2 9	2 5	1 9	1 8	0 5	8 0	0	8 0	8 0	8 0	8 0	8 0	4	4				
18	0 4	0 0 1 4	3 3	3 0	2 4	1 8	1 4	8 0	0	8 0	8 0	8 0	8 0	8 0	5	5				
18	0 7	0 0 1 4	3 4	3 1	2 5	2 0	0 2	8 0	0	8 0	8 0	8 0	8 0	8 0	5	5				
18	1 0	0 0 1 9	3 1	2 7	1 8	1 6	0 5	8 0	0	8 0	8 0	8 0	8 0	8 0	5	5				
18	1 3	0 0 1 7	3 5	3 2	2 6	1 8	1 0	8 0	0	8 0	8 0	8 0	8 0	8 0	5	5				
18	1 6	0 0 1 2	3 4	3 2	2 8	1 8	1 0	8 0	0	8 0	8 0	8 0	8 0	8 0	5	5				
18	1 9	0 0 1 2	3 4	3 1	2 5	1 8	1 0	8 0	0	8 0	8 0	8 0	8 0	8 0	5	5				
18	2 2	0 0 1 4	3 4	3 1	2 5	1 8	1 0	8 0	0	8 0	8 0	8 0	8 0	8 0	5	5				
19	0 1	0 0 1 4	3 4	3 1	2 5	1 8	0 5	8 0	0	8 0	8 0	8 0	8 0	8 0	5	5				
19	0 4	0 0 1 5	3 4	3 1	2 5	1 8	0 4	8 0	0	8 0	8 0	8 0	8 0	8 0	5	5				
19	0 7	0 0 1 6	3 5	3 2	2 6	1 8	1 0	8 0	0	8 0	8 0	8 0	8 0	8 0	5	5				
19	1 0	0 0 1 7	3 5	3 2	2 6	1 8	1 0	8 0	0	8 0	8 0	8 0	8 0	8 0	5	5				
19	1 3	0 0																		

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF OCTOBER 1951																							
DAY	HOUR	STATION LEVEL PRESSURE	WIND			DEW POINT	VISIBILITY	TOTAL CLOUD	LOW CLOUD		CLOUD DIRECTION			MAXIMUM GUST									
			DRY BULB	WET BULB	DIRECTION				PRES.	WEATHER	AMOUNT	TYPE	HEIGHT	MIDDLE CLOUD	HIGH CLOUD	LOW	DIRECTION	SPEED	SUNSHINE				
	LST.	Mbs.	"F	"F	"x10	Kts.	VV	Oktas	vv	w	W	Oktas	C _L	h	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.	Hours
21	0 1	0 1 R I	3 5	3 0	2 4	3 3	0 5	4 0	7	5 0	5	7	6	5									
21	0 4	0 1 - 0	3 5	3 1	2 7	0 0	0 0	4 0	8	5 0	5	8	6	5									
21	0 7	0 1 6 4	3 4	3 5	3 5	0 4	0 8	0	7	1 5	2	7	8	5									
21	1 0	0 1 5 1	3 9	3 5	3 1	3 3	0 4	8 1	7	0 2	2	5	5	5									
21	1 3	0 1 3 6	4 1	3 7	3 0	3 5	0 4	8 2	1	0 1	1	1	0	0									
21	1 6	0 1 2 7	4 0	3 7	3 2	3 4	0 2	8 2	7	0 3	1	1	5	6									
21	1 9	0 1 1 7	3 9	3 8	3 5	6	0 4	8 2	7	0 3	1	1	5	6									
22	0 1	0 0 8 5	4 1	4 0	3 9	3 6	0 5	8 2	5	0 2	1	1	5	6									
22	0 4	0 0 6 5	4 1	4 1	3 9	3 6	1 4	8 1	3	0 3	1	1	5	6									
22	0 7	0 0 5 1	4 2	4 1	4 0	3 6	1 6	4 8	8	1 0	5	6	6	4									
22	1 0	0 0 4 0	4 4	4 2	3 9	5 6	1 8	8 0	8	1 0	5	6	6	4									
22	1 3	0 0 1 8	4 2	4 1	4 0	3 5	1 6	4 0	8	6 0	6	8	8	0									
22	1 6	0 0 0 5	4 1	4 1	4 1	3 4	2 0	1 6	8	6 1	6	6	6	4									
22	1 9	9 9 9 7	4 1	4 1	4 1	3 4	1 6	0 1	9	6 5	5	4	9	9									
22	2 2	9 9 8 7	4 1	4 1	4 1	3 5	1 5	0 0	9	6 5	5	4	9	9									
23	0 1	9 9 7 3	4 2	4 1	4 1	3 4	2 0	0 2	9	6 5	5	4	9	9									
23	0 4	9 9 5 9	4 2	4 2	4 2	3 5	2 0	0 4	9	6 5	5	4	9	9									
23	0 7	9 9 5 1	4 2	4 2	4 2	3 5	2 0	0 4	9	6 5	5	4	9	9									
23	1 0	9 9 5 6	4 2	4 2	4 2	3 5	2 0	1 6	9	6 5	5	4	9	9									
23	1 3	9 9 7 0	4 2	4 2	4 2	3 5	1 6	2 4	9	6 1	6	6	6	4									
23	1 6	9 9 7 8	4 2	4 2	4 2	3 5	1 6	2 4	9	6 0	6	6	6	4									
23	1 9	9 9 8 6	4 5	4 4	4 5	3 1	1 4	3 2	9	6 1	6	6	6	4									
23	2 2	9 9 8 6	4 2	4 1	4 0	3 0	1 4	0 4	9	6 1	6	6	6	4									
24	0 1	9 9 7 0	4 2	4 1	4 0	3 0	0 9	0 4	9	6 0	6	6	6	4									
24	0 4	9 9 5 6	4 2	4 1	4 0	3 0	0 7	0 8	9	6 0	6	6	6	4									
24	0 7	9 9 3 9	4 3	4 2	4 1	1 7	0 6	4 0	9	6 0	6	6	6	4									
24	1 0	9 9 1 8	4 4	4 3	4 2	3 6	0 5	1 6	9	6 0	6	6	6	4									
24	1 3	9 9 8 2	4 4	4 3	4 2	3 6	0 5	1 6	9	6 0	6	6	6	4									
24	1 6	9 9 8 2	4 4	4 3	4 2	3 6	0 5	1 6	9	6 0	6	6	6	4									
24	1 9	9 9 8 2	4 4	4 4	4 4	3 5	1 6	0 1	9	6 7	6	7	7	3									
25	0 1	9 9 8 6	4 5	4 3	4 3	3 5	1 6	0 1	9	6 0	6	6	6	4									
25	0 4	9 9 8 1	4 5	4 2	4 2	3 5	1 6	0 1	9	6 1	6	6	6	4									
25	0 7	9 9 8 0	4 6	4 3	4 2	3 5	1 6	0 1	9	6 1	6	6	6	4									
25	1 0	9 7 8 7	4 5	4 2	4 1	3 4	2 5	2 0	9	6 0	6	6	6	4									
25	1 3	9 7 7 7	4 4	4 2	4 1	3 4	2 5	2 0	9	6 0	6	6	6	4									
25	1 6	9 7 6 9	4 2	4 1	4 0	3 4	2 5	2 0	9	6 0	6	6	6	4									
25	1 9	9 7 8 0	4 3	3 9	3 9	3 1	2 5	2 0	9	6 0	6	6	6	4									
25	2 2	9 7 9 9	3 8	3 8	3 8	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	2 5	9 8 1 0	3 8	3 8	3 8	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	2 8	9 8 2 2	3 6	3 6	3 6	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	3 1	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	3 4	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	3 7	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	4 0	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	4 3	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	4 6	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	4 9	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	5 2	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	5 5	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	5 8	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	6 1	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	6 4	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	6 7	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	7 0	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	7 3	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	7 6	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	7 9	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	8 2	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	8 5	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	8 8	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	9 1	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	9 4	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	9 7	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	10 0	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	10 3	9 8 2 2	3 5	3 5	3 5	3 1	2 7	2 0	9	6 0	6	6	6	4									
25	10 6	9 8 2 2	3 5	3 5	3 5	3 1</																	

RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF MACQUARIE ISLAND
OCTOBER 1951

DAY	HOUR	STATION LIVE PRESSURE	DRY BULB	WET BULB	DEW POINT	DIRECTION	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD AMOUNT	HEIGHT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE		
							DIRECTION	SPEED							CLOUD TYPE	LOW	MIDDLE	HIGH				DIRECTION	SPEED			
LST.		Mbs.	"F	"F	"F	*x10	Kts.	VV	Oktas	Ww	W	Oktas	C _L	C _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	*x10	Kts.	Hours	
5 1	0 1	9 9 4 6	3 4	3 3	3 1	2 7	1 7	2 4	8	8 5	8	8	8	4												
5 1	0 4	9 9 5 6	3 4	3 2	2 8	2 6	1 6	1 6	8	8 5	8	8	8	4												
5 1	0 7	9 9 7 0	3 4	3 5	3 1	2 3	1 5	5 6	8	2 6	8	7	8	4												
5 1	1 0	9 9 7 9	3 4	3 5	3 1	2 2	1 2	8 0	7	8 5	9	7	3	4												
5 1	1 3	9 9 8 6	3 4	3 1	2 5	2 5	1 0	8 0	8	8 5	8	8	3	4												
5 1	1 6	9 9 8 7	3 5	3 2	2 6	2 6	2 6	8 0	8	2 6	8	8	8	5												
5 1	1 9	9 9 8 4	3 5	3 2	2 6	2 7	2 5	8 0	8	2 6	8	8	8	5												
5 1	2 2	9 9 4 8	3 7	3 4	2 9	3 0	2 6	8 0	8	2 6	8	8	8	5												

**RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF NOVEMBER 1951**

RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF

MACQUARIE ISLAND
NOVEMBER 1951

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB		WET BULB		DEW POINT	WIND DIRECTION		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD AMOUNT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	ANEMOMETER	MAXIMUM GUST				
			"F	Mbs.	"F	"F		*x10	Kts.		Oldas	W	Oldas	C _L	h	C _M	C _H	C _L	C _M	C _H	Points	Miles	*x10	Kts.	SUNSHINE Hours
11	0 1	9 9 8 1	5 9	5 9	5 9	5 9	1 6	2 5	0 8	8	5 0	5	5 0	5	6	7	3								
11	0 4	9 9 0 0	5 9	5 9	5 9	5 7	1 8	2 8	1 6	8	5 0	5	5 0	5	6	3									
11	0 7	9 9 2 8	5 9	5 9	5 9	5 7	1 8	2 6	8 0	8	5 0	5	5 0	5	6	4									
11	1 0	9 9 5 0	4 0	3 8	3 5	1 7	2 2	2 0	8 0	8	0 2	2	2	8	5	4									
11	1 3	9 9 6 6	4 2	3 8	3 5	1 7	2 0	8 0	6	0 2	2	6	8	4	0	0	0	0	0	4					
11	0 0 0 0	4 1	3 8	3 8	3 3	2 0	1 4	8 2	4	0 2	1	4	5	4	0	0	0	0	0	4					
11	1 9	0 0 3 1	3 6	3 5	3 3	2 1	1 0	8 2	7	0 2	2	7	5	4	0	0	0	0	0	4					
11	2 2	0 0 4 7	5 7	5 6	5 4	2 2	0 6	8 2	5	0 2	1	5	5	4	0	0	0	0	0	4					
12	0 1	0 0 5 7	5 6	5 4	5 0	2 3	0 2	8 1	7	0 2	2	7	7	4	0	0	0	0	0	5					
12	0 4	0 0 6 6	3 7	3 5	3 2	2 4	0 3	8 0	8	0 2	2	6	7	4	0	0	0	0	0	4					
12	0 7	0 0 8 1	3 8	3 6	5 3	1 2	0 2	8 0	8	0 2	2	6	8	5	4	0	0	0	0	0	4				
12	1 0	0 0 8 1	4 0	3 8	3 5	0 0	0 0	8 0	8	0 2	2	6	8	5	4	0	0	0	0	0	4				
12	1 3	0 0 7 5	4 0	3 7	3 2	3 6	0 2	8 1	8	0 2	2	8	5	5	5	0	0	0	0	0	4				
12	1 6	0 0 7 1	3 8	3 6	3 3	3 5	0 9	8 1	8	0 2	2	6	6	5	5	5	5	5	5	5	1				
12	1 9	0 0 6 8	3 9	3 8	3 7	3 4	0 8	8 1	8	0 2	2	8	6	5	5	5	5	5	5	5	1				
12	2 2	0 0 6 5	4 0	3 7	3 2	3 5	0 8	8 0	8	0 2	2	6	6	5	4	0	0	0	0	0	4				
13	0 1	0 0 5 9	4 0	3 7	3 2	3 6	0 8	8 0	8	0 2	2	6	6	5	5	5	5	5	5	5	6				
13	0 4	0 0 4 5	4 1	3 7	3 0	3 6	0 8	8 0	8	0 2	2	6	6	5	5	5	5	5	5	5	6				
13	0 7	0 0 3 7	4 2	3 8	3 1	3 6	0 5	8 0	8	0 2	2	6	6	5	5	5	5	5	5	5	6				
13	1 0	0 0 2 7	A 3	4 0	3 5	3 2	0 4	8 1	8	0 2	2	6	6	5	5	5	5	5	5	5	6				
13	1 3	0 0 0 0	4 5	4 0	3 5	3 5	0 5	8 1	1 0	8 1	8	0 2	2	6	6	5	5	5	5	5	6				
13	1 6	0 0 9 8 1	4 2	4 0	3 7	0 5	0 4	8 0	8	0 2	2	6	7	4	0	0	0	0	0	5	6				
13	1 9	0 0 9 6 6	4 2	4 0	3 7	3 1	0 7	8 1	8	0 2	2	6	8	5	4	0	0	0	0	0	5	6			
13	2 2	0 0 9 5 0	4 2	4 1	4 0	3 9	0 9	8 1	8	5 3	5 3	5 8	8	7	4	0	0	0	0	0	4	6			
14	0 1	0 0 9 2 6	4 2	4 2	4 2	3 4	1 3	1 3	0 8	8 1	8	4 7	4	9	9	0	0	0	0	0	4	6			
14	0 4	0 0 9 1 6	4 1	4 1	4 1	3 4	1 4	1 0	0 2	9	4 7	5	9	0	0	0	0	0	0	0	4	6			
14	0 7	0 0 9 2 0	4 1	4 1	4 1	0 0	0 0	9 9	4 7	4	4	9	9	0	0	0	0	0	0	0	4	6			
14	1 0	0 0 9 1 5	4 2	4 2	4 2	4 2	3 1	0 3	0 0	9 9	4 7	4	9	9	0	0	0	0	0	0	4	6			
14	1 3	0 0 9 1 2	4 2	4 2	4 2	4 2	4 2	0 2	0 0	9 9	4 7	4	9	9	0	0	0	0	0	0	4	6			
14	1 6	0 0 9 0 8	4 2	4 2	4 2	4 2	4 2	0 0	0 0	9 9	4 7	4	9	9	0	0	0	0	0	0	4	6			
14	1 9	0 0 9 1 1	3 9	3 9	3 9	2 9	1 5	6 4	8	1 1	2	8	6	5	3	0	0	0	0	0	4	6			
14	2 2	0 0 9 1 8	4 2	4 2	4 1	4 0	3 0	0 4	0 0	9 9	4 7	4	9	9	0	0	0	0	0	0	4	6			
15	0 1	0 0 9 1 5	4 0	3 9	3 8	3 0	3 0	1 4	8 0	7	0 2	4	7	5	4	0	0	0	0	0	4	6			
15	0 4	0 0 9 1 7	3 9	3 8	3 7	3 0	1 4	8 1	7	0 2	1	3	8	4	0	0	0	0	0	4	6				
15	0 7	0 0 9 2 8	4 0	3 8	3 7	2 9	1 3	8 0	8	2 5	8	8	8	4	0	0	0	0	0	4	6				
15	1 0	0 0 9 3 9	4 2	4 0	3 5	2 8	1 0	8 1	8	1 0	2	8	8	5	3	0	0	0	0	0	4	6			
15	1 3	0 0 9 5 0	4 1	3 9	3 6	2 9	1 2	8 1	8	0 2	2	8	8	5	3	0	0	0	0	0	4	6			
15	1 6	0 0 9 6 0	4 1	3 8	3 5	2 8	1 0	8 1	8	0 2	2	8	8	5	3	0	0	0	0	0	4	6			
15	1 9	0 0 9 6 9	3 8	3 5	3 3	3 1	0 3	8 1	8	0 3	1	2	8	5	0	0	1	6	0	4	6				
15	2 2	0 0 9 8 0	3 9	3 5	3 3	0 0	0 0	8 1	8	4	0 3	1	0	0	9	0	0	5	5	2	6	0	0		
16	0 1	0 0 9 7 1	4 0	3 9	3 8	1 2	0 7	4 0	8 0	6	6	6	6	7	5	0	0	0	0	0	4	6			
16	0 4	0 0 9 6 4	4 1	4 1	4 1	0 0	0 0	9 9	4 5	4	6	6	6	7	2	0	0	0	0	0	4	6			
16	0 7	0 0 9 4 8	4 5	4 5	4 5	0 2	0 9	0 8	6	6	6	6	6	7	2	0	0	0	0	0	4	6			
16	1 0	0 0 9 4 0	4 5	4 5	4 5	0 1	1 3	1 6	6 1	6	6	6	6	7	2	0	0	0	0	0	4	6			
16	1 3	0 0 9 3 4	4 5	4 5	4 5	3 6	0 5	2 4	8 0	6	6	6	6	7	2	0	0	0	0	0	4	6			
16	1 6	0 0 9 2 2	4 5	4 3	4 4	1 0	0 2	1 6	8 0	6	6	6	6	7	2	0	0	0	0	0	4	6			
16	1 9	0 0 9 0 5	4 4	4 4	4 4	1 5	0 4	4 0	8 0	6	6	6	6	7	2	0	0	0	0	0	4	6			
17	0 1	0 0 9 7 9	4 5	4 3	4 3	1 2	1 2	0 8	8 0	6	6	6	6	7	3	0	0	0	0	0	4	6			
17	0 4	0 0 9 6 4	4 5	4 3	4 3	1 5	1 5	2 4	8 0	6	6	6	6	7	2	0	0	0	0	0	4	6			
17	0 7	0 0 9 6 0	4 4	4 3	4 2	1 1	1 6	1 2	8 0	6	6	6	6	7	2	0	0	0	0	0	4	6			
17	1 0	0 0 9 7 4	4 4	4 4	4 4	1 0	1 6	1 2	8 0	6	6	6	6	7	2	0	0	0	0	0	4	6			
17	1 3	0 0 9 7 0	4 4	4 4	4 4	1 0	1 6	0 4	8 0	6	6	6	6	7	2	0	0	0	0	0	4	6			
17	1 6	0 0 9 6 8	4 4	4 4	4 4	1 0	0 8	0 4	8 0	6	6	6	6	7	2	0	0	0	0	0	4	6			
17	1 9	0 0 9 6 7	4 5	4 3	4 3	1 1	1 5	0 2	5 5	4	6	6	6	7	2	0	0	0	0	0	4	6			
18	0 1	0 0 9 6 4	4 0	3 8	3 7	3 0	2 5	2 4	8 0	6	6	6	6	7	2	0	0	0	0	0	4	6			
18	0 4	0 0 9 6 1	4 2	4 2	4 2	3 0	3 0	0 6	5 5	5 5	5 5	5 5	5 5	7	3	0	0	0	0	0	4	6			
18	0 7	0 0 9 8 3 0	3 9	3 9	3 9	2 7	2 6	0 8	6	6	6	6	6	7	3	0	0	0	0	0	4	6			
18	1 0	0 0 9 8 7 6	3 8	3 8	3 8	2 8	2 9	2 4	8 0	6	6	6	6	7	3	0	0	0	0	0	4	6			
18	1 3																								

**RESULTS OF SURFACE OBSERVATIONS AT
MACQUARIE ISLAND
FOR THE MONTH OF NOVEMBER, 1951**

DAY	HOUR	RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF										MACQUARIE ISLAND NOVEMBER 1951																					
		STATION LEVEL PRESSURE		DRY BULB		WET BULB		DEW POINT		WIND DIRECTION		VISIBILITY		TOTAL CLOUD		LOW CLOUD		CLOUD DIRECTION		PAST WEATHER		HIGH		MAXIMUM TEMPERATURE		MINIMUM TEMPERATURE		PRECIPITATION		ANEMOMETER		MAXIMUM GUST	
LST.		Mbs.	"F	"F	"F	"F	"x10	Kts.	VV	Oktas	ww	W	Oldest	C_L	h	Cm	Ch	C_L	Cm	Ch	C_L	Cm	Ch	"F	"F	Points	Miles	"x10	Kts.	Hours			
1	0 1	9 8 9 0	4 5	4 3	4 3	0 0	0 0	0 2	9	4 5	4 5	4 4	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0	
1	0 4	9 8 9 3	4 1	4 1	4 1	0 0	0 0	0 2	9	4 5	4 5	4 4	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
1	0 7	9 8 9 7	4 2	4 2	4 2	1 3	1 0	0 1	9	4 7	4 7	4 6	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 7	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
1	1 0	9 8 9 4	4 3	4 3	4 3	1 8	0 2	0 0	9	4 7	4 7	4 6	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 7	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
1	1 3	9 8 9 1	4 3	4 3	4 3	0 0	0 0	0 0	9	4 7	4 7	4 6	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 7	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
1	1 6	9 8 9 2	4 3	4 3	4 3	0 0	0 0	0 6	9	4 3	4 3	4 2	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 3	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
1	1 9	9 8 9 7	4 3	4 3	4 3	1 6	0 2	0 8	9	4 3	4 3	4 2	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 3	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	0 1	9 9 0 1	4 3	4 3	4 3	1 7	0 7	1 6	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	0 4	9 9 0 3	4 2	4 2	4 2	1 7	1 2	0 4	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	0 7	9 9 0 6	4 1	4 1	4 1	1 7	1 3	0 4	8	0 1	0 1	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	1 0	9 9 1 4	4 3	4 2	4 1	0 0	0 0	0 0	8	0 1	0 1	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	1 3	9 9 2 0	4 7	4 5	4 5	0 8	0 1	0 8	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	1 6	9 9 2 7	4 7	4 5	4 5	1 0	0 1	0 4	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	1 9	9 9 3 1	4 6	4 5	4 4	0 9	0 0	0 0	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	2 2	9 9 3 7	4 5	4 5	4 5	0 0	0 0	0 0	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	2 5	9 9 4 1	4 4	4 4	4 4	0 0	0 0	0 0	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	2 8	9 9 4 0	4 3	4 3	4 3	0 0	0 0	0 0	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	3 1	9 9 4 5	4 5	4 4	4 4	0 0	0 0	0 0	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	3 4	9 9 5 0	4 4	4 4	4 4	0 0	0 0	0 0	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	3 7	9 9 5 2	4 5	4 4	4 4	0 0	0 0	0 0	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	4 0	9 9 5 4	4 6	4 5	4 5	0 0	0 0	0 0	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	4 3	9 9 5 7	4 5	4 5	4 5	0 0	0 0	0 0	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	4 6	9 9 6 0	4 0	5 9	5 8	1 7	1 6	0 8	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	4 9	9 9 6 3	3 8	5 8	5 8	1 5	0 4	0 4	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	5 2	9 9 6 7	3 8	5 8	5 8	1 5	0 4	0 4	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	5 5	9 9 7 0	3 7	5 6	5 6	1 7	1 7	0 7	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	5 8	9 9 7 3	3 6	5 6	5 6	1 7	0 7	0 7	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	6 1	9 9 7 6	3 6	5 6	5 6	1 7	0 7	0 7	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	6 4	9 9 7 9	3 6	5 6	5 6	1 7	0 7	0 7	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	6 7	9 9 8 2	3 6	5 6	5 6	1 7	0 7	0 7	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	7 0	9 9 8 5	3 6	5 6	5 6	1 7	0 7	0 7	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	7 3	9 9 8 8	3 6	5 6	5 6	1 7	0 7	0 7	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	7 6	9 9 9 1	3 6	5 6	5 6	1 7	0 7	0 7	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	7 9	9 9 9 4	4 1	4 1	4 1	0 1	0 1	0 1	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	8 2	9 9 9 7	4 1	4 1	4 1	0 1	0 1	0 1	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	8 5	9 9 0 0	4 1	4 1	4 1	0 1	0 1	0 1	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	8 8	9 9 0 3	4 1	4 1	4 1	0 1	0 1	0 1	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	9 1	9 9 0 6	4 1	4 1	4 1	0 1	0 1	0 1	8	0 2	0 2	0 1	9 9	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	9	9	4 5	4 1	0 0 1 8	2 0 1	1 6	1 4	0 0 0
2	9 4	9 9 0 9	4 1	4 1	4 1	0 1	0 1																										

**RESULTS OF SURFACE OBSERVATIONS AT
MACQUARIE ISLAND
FOR THE MONTH OF DECEMBER 1951**

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF DECEMBER 1951																																		
DAY	HOUR	STATION LEVEL PRESSURE		DRY BULB		WET BULB		DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD AMOUNT	CLOUD DIRECTION		MIDDLE CLOUD	HIGH CLOUD	LOW	MIDDLE	HIGH	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER DIRECTION	MAXIMUM GUST							
		DAY	HOUR	"F	"F	"F	"F		"x10	Kts.		Oktas	ww	W	Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.	Hours					
01	01	00	20	4.4	4.4	4.4	4.4	3.1	18	16	8	5.1	5.1	5.1	5.1	5	7	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
01	04	9	0.86	4.4	4.4	4.4	4.4	3.1	18	0.4	8	5.1	5.1	5.1	5.1	5	7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
01	07	9	9.53	4.4	4.4	4.4	4.4	3.1	18	0.6	8	5.1	5.1	5.1	5.1	6	7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
01	10	9	9.17	4.4	4.4	4.4	4.4	2.9	19	2.4	8	5.1	5.1	5.1	5.1	6	7	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
01	13	9	9.13	4.0	3.9	3.9	3.9	2.8	23	2.4	8	5.1	5.1	5.1	5.1	6	7	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
01	16	9	9.09	4.1	5.9	5.6	5.6	2.7	29	5.6	8	5.1	5.1	5.1	5.1	6	8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
01	19	9	9.04	4.0	3.7	5.2	5.2	2.8	26	8.0	8	2.5	2.5	2.5	2.5	8	7	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
01	22	9	9.09	3.9	3.9	3.7	3.7	2.8	21	8.0	8	2.5	2.5	2.5	2.5	8	7	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
02	01	9	9.10	3.8	3.5	3.5	3.5	2.7	22	R	3	0.1	1	1	1	3	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
02	04	9	9.10	3.7	3.4	3.4	3.4	2.7	20	R	3	0.2	1	1	1	3	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
02	07	9	9.06	3.7	5.4	5.4	5.4	3.0	14	R	3	1.5	2	2	2	6	7	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
02	10	9	8.91	3.7	5.4	5.4	5.4	2.9	20	6.4	8	8.0	8.0	8.0	8.0	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
02	13	9	8.76	4.1	5.7	5.0	5.0	2.9	15	8.0	8	1.5	8	8	8	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
02	16	9	8.60	4.1	5.7	5.0	5.0	2.9	12	R	6	1.5	2	2	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
02	19	9	8.46	4.1	5.7	5.0	5.0	2.9	12	R	6	0.6	8	8	8	8	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
02	22	9	8.32	4.1	5.9	5.3	5.3	3.0	14	R	6	0.6	8	8	8	8	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
03	01	9	8.16	4.2	4.2	4.2	4.2	3.5	14	R	8	6.1	6	6	6	8	7	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
03	04	9	8.10	4.2	4.2	4.2	4.2	3.4	14	R	8	5.0	5	5	5	5	6	7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
03	07	9	8.18	4.4	4.4	4.4	4.4	3.0	1	0.1	0.1	0.6	0.6	0.6	0.6	8	1.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	10	9	8.18	4.6	4.4	4.4	4.4	2.9	14	R	8	1.5	8	8	8	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
03	13	9	8.19	4.6	4.4	4.4	4.4	2.9	14	R	8	1.5	8	8	8	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
03	16	9	8.19	4.6	4.4	4.4	4.4	2.9	14	R	8	1.5	8	8	8	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
03	19	9	8.19	4.6	4.4	4.4	4.4	2.9	14	R	8	1.5	8	8	8	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
03	22	9	8.21	4.6	4.4	4.4	4.4	2.9	14	R	8	1.5	8	8	8	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
04	01	9	8.21	4.7	4.5	4.5	4.5	3.0	1	0.1	0.1	0.6	0.6	0.6	0.6	8	1.5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
04	04	9	8.23	4.0	4.4	4.4	4.4	3.0	0	0.0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04	07	9	8.25	4.4	4.5	4.5	4.5	3.0	0	0.0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04	10	9	8.25	4.4	4.5	4.5	4.5	3.0	0	0.0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04	13	9	8.25	4.4	4.5	4.5	4.5	3.0	0	0.0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04	16	9	8.25	4.4	4.5	4.5	4.5	3.0	0	0.0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04	19	9	8.25	4.4	4.5	4.5	4.5	3.0	0	0.0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04	22	9	8.25	4.4	4.5	4.5	4.5	3.0	0	0.0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05	01	9	8.21	4.1	5.7	5.4	5.4	2.9	18	R	8	6.4	6	6	6	8	0.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
05	04	9	8.19	4.1	5.7	5.4	5.4	2.9	18	R	8	6.4	6	6	6	8	0.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
05	07	9	8.19	4.1	5.7	5.4	5.4	2.9	18	R	8	6.4	6	6	6	8	0.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
05	10	9	8.19	4.1	5.7	5.4	5.4	2.9	18	R	8	6.4	6	6	6	8	0.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
05	13	9	8.19	4.1	5.7	5.4	5.4	2.9	18	R	8	6.4	6	6	6	8	0.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
05	16	9	8.19	4.1	5.7	5.4	5.4	2.9	18	R	8	6.4	6	6	6	8	0.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
05	19	9	8.19	4.1	5.7	5.4	5.4	2.9	18	R	8	6.4	6	6	6	8	0.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
05	22	9	8.19	4.1	5.7	5.4	5.4	2.9	18	R	8	6.4	6	6	6	8	0.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
06	01	9	8.21	4.1	5.7	5.4	5.4	2.9	18	R	8	6.4	6	6	6	8	0.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
06	04	9	8.21	4.1	5.7	5.4	5.4	2.9	18	R	8	6.4	6	6	6	8	0.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
06	07	9	8.21	4.1	5.7	5.4	5.4	2.9	18	R	8	6.4	6	6	6	8	0.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
06	10	9	8.21	4.1	5.7	5.4	5.4	2.9	18	R	8	6.4	6	6	6	8	0.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
06	13	9	8.21	4.1	5.7	5.4	5.4	2.9	18	R	8	6.4	6	6	6	8	0.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
06	16	9	8.21	4.1	5.7	5.4	5.4	2.9	18	R	8	6.4	6	6	6	8	0.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
06	19	9	8.21	4.1	5.7	5.4	5.4	2.9	18	R	8	6.4	6	6	6	8	0.2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
06	22	9	8.21	4.1	5.7	5.4	5.4	2.9	18	R	8	6.4	6	6	6	8	0.2																	

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF**

**MACQUARIE ISLAND
DECEMBER 1951**

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	DIRECTION	WIND SPEED	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD TYPE	HEIGHT CM	CLOUD DIRECTION	CLOUD LOW MIDDLE HIGH	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE				
			LST.	Mbs.	°F	°F	°F	*x10	Kts.	VV	Oktas	WW	W	Oktas	C _L	h	C _L	C _M	C _H	°F	°F	Points	Miles	*x10	Kts.	Hours
1	1	0	9	9	5	4	4	5	1	1	4	0	2	0	4	8	5	3	6	6	7	2	2	2	2	
1	1	0	9	9	4	2	4	4	4	1	2	1	2	1	6	8	5	3	6	6	7	2	2	2	2	
1	1	0	9	9	4	3	4	4	4	1	3	0	5	1	6	8	5	3	6	6	7	2	2	2	2	
1	1	0	9	9	4	6	4	4	4	1	4	0	3	0	2	8	5	3	6	6	7	2	2	2	2	
1	1	0	9	9	4	6	4	4	4	1	4	0	2	0	2	8	5	3	6	6	7	2	2	2	2	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	2	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0	9	9	5	6	4	4	4	1	4	0	1	0	1	9	4	5	4	4	9	9	9	9	9	
1	1	0																								

RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF

MACQUARIE ISLAND
DECEMBER 1951

RESULTS OF SURFACE OBSERVATIONS AT																			MACQUARIE ISLAND FOR THE MONTH OF DECEMBER 1951														
DAY	HOUR	STATION LEVEL PRESSURE		WIND				DEW POINT	VISIBILITY	TOTAL CLOUD	PAST WEATHER	LOW CLOUD	CLOUD DIRECTION			PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE													
		LST.	Mbs.	"F	"F	"F	"x10						DIRECTION	SPEED	OKtas	WW	W	OKtas	C _L	Type	Height	CM	CM	CM	CM	Points	Miles	"x10	Kts.				
5 1	C 1	9 4	3 7	4 4	4 4	4 4	4 4	3 1	1 2	0 1	9	4 7	5	LOW	0	0	0	0	0	MIDDLE	CM	CM	CM	CM	4 7	4 1	0 0 0 2	1 1 5	3 0	1 7	0 0 0		
5 1	O 4	9 9	1 0	4 4	4 4	4 4	4 4	3 2	0 6	0 0	9	4 5	6	HIGH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	O 7	9 6	b 0	4 4	4 4	4 4	4 4	3 4	0 4	0 1	9	4 3	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 0	9 6	4 7	4 6	4 6	4 6	4 6	3 0	0 0	0 0	9	4 2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 5	9 6	1 5	4 5	4 5	4 5	4 5	0 8	0 2	4 0	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 6	9 7	6 1	4 5	4 5	4 5	4 5	0 0	0 0	4 0	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 7	9 7	6 2	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 8	9 7	6 5	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 9	9 7	6 6	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 10	9 7	6 7	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 11	9 7	6 8	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 12	9 7	6 9	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 13	9 7	7 0	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 14	9 7	7 1	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 15	9 7	7 2	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 16	9 7	7 3	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 17	9 7	7 4	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 18	9 7	7 5	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 19	9 7	7 6	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 20	9 7	7 7	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 21	9 7	7 8	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 22	9 7	7 9	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 23	9 7	8 0	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 24	9 7	8 1	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 25	9 7	8 2	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 26	9 7	8 3	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 27	9 7	8 4	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 28	9 7	8 5	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 29	9 7	8 6	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 30	9 7	8 7	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 31	9 7	8 8	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 32	9 7	8 9	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 33	9 7	9 0	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 34	9 7	9 1	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 35	9 7	9 2	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 36	9 7	9 3	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 37	9 7	9 4	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 38	9 7	9 5	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 39	9 7	9 6	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 40	9 7	9 7	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 41	9 7	9 8	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 42	9 7	9 9	4 4	4 4	4 4	4 4	0 0	0 0	3 2	9	5 1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 1	I 43	9 7	9 0																														

**RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF JANUARY 1951**

DAY	SURFACE			1000 MBs		900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS							
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW															
01	002	F034	002	08F	5054	025	131	5080	01H	177	5121	014	279	5137	009	394	227	003							
02	405	002442	512	074	038	052	120	0005	043	169	5024	038	273	5108	023	392	118								
03	007	003037	009	040	5045	023	135	5035	023	183	5050	012	288	5030	009	409	080	017							
04	002	0057	001	027	0073	070	134	0085	072	184	0042	065	292	5012	049	414	075	020							
05	307	0017034	502	082	5060	025	126	5087	021	173	5081	016	277	5097	014	394	149								
06	014	002034	009	092	5049	025	137	5089	014	184	5110	016	285	5157	014	400	232	007							
07	002	001555	009	086	5034	031	131	5074	024	178	5090	022	282	5083	026	400	145	016							
08	004	0017035	001	084	5050	028	129	5076	025	176	5035	024	279	5125	015	397	150								
09	016	0020035	013	094	5014	030	140	0023	041	184	0029	034	297	5014	024	418	092	020							
10	004	006042	004	096	0053	048	136	0014	04H	185	0050	031	294	0006	025	416	080	013							
11	004	0020046	004	089	0023	040	135	0015	048	184	0008	048	290	5041	038	411	087	030							
12	000	0015036	001	0R5	5004	040	131	0006	059	179	0009	028	286	5048	031	405	113	011							
13	008	003045	509	076	5021	034	121	5050	050	168	5084	023	270	5157	014	385	213	006							
14	004	003052	505	081	5042	027	125	5082	019	172	5114	017	273	5182	010	387	239	003							
15	004	0018030	004	087	5062	022	132	5096	017	178	5123	010	279	5187	007	393	259	002							
16	001	0020034	019	085	5011	036	139	0037	050	188	0022	044	295	5024	034	415	086	025							
17	001	0015032	011	095	0020	020	142	0045	014	192	0045	024	299	5020	011	420	088								
18	011	003045	004	095	0044	049	142	0022	041	191	0049	020	299	0004	021	421	065								
19	006	002041	006	086	0015	045	132	0042	048	181	0017	026	287	5039	035	406	095	026							
20	004	0042035	504	081	5017	033	126	5042	024	173	5065	027	277	5105	021	395	161	013							
21	011	0020035	009	084	5042	026	129	5074	021	175	5104	017	277	5180	011	391	229	005							
22	012	0020037	010	095	0025	018	141	0024	024	190	0014	010	299	5058	021	415	109	009							
23	022	003031	010	102	0016	015	148	0012	012	197	0026	0304	5002	026	426	061									
24	011	010062	009	094	0108	084	144	0069	082	194	0054	068	302	0003	040	424	026	022							
25	003	003041	007	092	5024	035	137	5060	020	182	5102	017	287	5109	009	404	150								
26	001	0043046	001	0H7	0025	046	133	0046	056	182	0009	042	289	0005	026	412	069	026							
27	002	0020031	011	095	5009	020	140	0005	010	189	5034	022	294	5013	015	397	100	09							
28	004	0020035	504	079	0025	029	125	0023	031	174	0000	039	281	0002	052	404	048	041							
29	004	003048	015	075	5004	040	113	5029	037	167	0001	030	273	5021	015	396	049								
30	003	0020035	506	077	5049	028	122	507	023	169	5108	018	271	5138	015	387	175	009							
DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS			60 MILLIBARS			
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW				
01	526	284		685	330	03	R81	477	144	497															
02	529	230		688	352																				
03	549	150		713	285	06	913	436	177	531	361	514	623	528	768	500	959	445							
04	553	130	20	721	215	11	927	352	197	555															
05	530	230		591	283		R85	355																	
06	531	324	03	685	424	01	877	451	150	424	343	451	612	451	761	449	954	437							
07	536	235	09	696	357	04	R80	505	154	476	343	476	610	494	756	476	947	431							
08	532	221		693	318		R89	461	156	477	345	492	611	492											
09	556	182	13	720	264	08	921	424	184	522	570	530	632	527	777	492									
10	555	174	13	720	259	09	921	423	186	465	375	510	639	516	785	457	978	411							
11	550	155	19	715	270	08	915	434	150	439															
12	543	212	10	703	334	03	R89	493	161	498	351	504	616	478	763	462									
13	517	294	02	674	380		R87	441																	
14	518	316		673	395	02	R64	516	135	411	330	409	603	452	754	414	949	417							
15	522	357	01	674	453		R64	460	132	432	325	441	597	441	747	445	940	426							
16	546	217	04	707	330		R94	441																	
16	555	167	15	719	262	07	921	410	186	556	374	465	643	448	794	399	992	356							
17	559	186	07	721	299	03	R90	439	179	542	362	537	645	493	773	438	968	404							
18	561	166		725	265		R92	414	192	553	378	498	646	466	794	448	988	413							
19	547	162	20	712	278	09	R912	440	176	475	367	467	634	461	782	453	975	419							
20	530	218	05	690	328	02	R88	398	170	342	371	347	654	346	810	330	013	311							
21	522	332	03	676	420	01	R71	416	145	454	338	434	609	454	758	425	954	346							
22	553	199	04	716	284	06	R916	443	174	602	358	517	619	504	766	446	958	429							
23	553	212	05	713	339	02	R909	479	170	475	360	472	629	463	778	424									
24	567	150		731	275		R932	429	194	563	381	458	654	404	806	396	004	367							
25	566	122	15	733	292	08	R936	388	201	590	380	571	643	462	792	424	968	370							
26	540	225	04	699	366	02	R893	452	163	447	355	469													
27	551	149	08	716	281	03	R917	421	179	602	364	521	625	517	770	512									
28	555	171	13	719	272	07																			
29	546	122	25	714	214	11	R920	365	190	546	351	452	621	466	769	465	962	417							
30	536	142		702	251	</td																			

**RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF FEBRUARY 1951**

DAY	SURFACE			1000 MBS			900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS		
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW											
01	0 0 6	0 0 2	7 0 3 2	0 0 5	0 8 9	5 0 5 0	0 2 2	1 3 4	5 0 8 9	0 1 6	1 8 0	5 1 2 9	0 1 4	2 8 2	5 1 2 9	0 0 9	3 9 8	1 9 8	0 0 7		
02	0 0 0	0 0 3	6 0 4 1	0 0 1	0 8 5	5 0 1 3	0 3 8	1 3 1	5 0 4 4	0 3 2	1 7 8	5 0 7 3	0 2 7	2 8 3	5 0 5 4	4 0 3	1 0 5	0 1 4			
03	9 9 0	0 0 3	3 0 3 6	5 0 8	0 7 7	5 0 3 6	0 2 9	1 2 2	5 0 7 0	0 2 5	1 6 9	5 0 9 7	0 2 2	2 7 0	5 1 7 3	0 1 2	3 8 5	2 0 2	0 0 5		
04	9 9 9	0 0 1	5 0 3 1	5 0 0	0 8 3	5 0 5 1	0 2 6	1 2 8	5 0 8 7	0 2 1	1 7 5	5 0 9 7	0 2 1	2 7 7	5 1 4 0	0 0 6	3 9 2	2 2 4	0 0 4		
05	9 9 1	0 0 3	6 0 4 5	5 0 7	0 7 9	5 0 7 5	0 7 3														
06	9 8 9	0 0 2	8 0 3 6	5 0 8	0 7 6	5 0 4 3	0 2 8	1 2 1	5 0 7 3	0 2 5	1 6 8	5 1 0 3	0 1 9	2 6 9	5 1 7 2	0 0 9	3 8 3	2 5 2			
09	0 1 0	0 0 4	9 0 4 5	0 0 9	0 9 5	5 0 4 7	0 4 4	1 4 1	5 0 5 2	0 5 8	1 9 0	5 0 2 7	0 5 2	2 9 7	5 0 2 2	0 3 6	4 1 8	0 9 1	0 2 4		
10	0 0 8	0 1 2	5 0 7 7	0 0 7	0 9 5	5 0 8 7	0 7 5	1 4 3	5 0 5 0	0 5 9	1 9 2	5 0 2 0	0 5 1	2 9 9	5 0 3 2	4 2 2	0 2 8				
11	9 9 8	0 0 3	4 0 4 5	5 0 9	0 7 5	5 0 2 2	0 3 5	1 2 1	5 0 3 9	0 3 0	1 6 8	5 0 7 8	0 2 3	2 7 1	5 1 4 0	0 1 6	3 8 7	2 0 6	0 1 0		
12	9 8 8	0 0 4	3 0 3 8	5 1 2	0 7 3	5 0 4 2	0 2 6	1 1 8	5 0 6 7	0 2 0	1 6 5	5 1 1 0	0 1 7	2 6 6	5 1 2 6	0 0 7	3 8 2	2 0 1	0 0 6		
13	9 9 1	0 0 2	3 0 3 8	5 0 7	0 7 7	5 0 4 1	0 2 8	1 2 2	5 0 6 9	0 2 5	1 6 9	5 1 0 4	0 2 0	2 7 1	5 1 8 1	0 1 0	3 8 4	2 5 4	0 0 6		
14	9 9 8	0 0 3	0 0 3 2	5 0 6 0	0 8 3	5 0 4 0	0 1 9	1 2 8	5 0 8 5	0 1 8	1 7 5	5 1 0 9	0 1 8	2 7 8	5 0 7 1	0 2 5	3 9 6	1 2 5	0 1 9		
15	9 6 9	0 0 3	0 0 4 7	5 2 4	0 6 0	5 0 1 3	0 4 6	1 0 6	5 0 0 3	0 4 4	1 5 5	5 0 1 1	0 4 4	2 6 0	5 0 7 0	0 3 0	3 8 0	1 1 5	0 2 3		
16	9 7 1	0 0 2	4 0 3 4	5 2 3	0 6 1	5 0 3 1	0 2 8	1 0 6	5 0 0 5	0 2 4	1 5 3	5 0 9 1	0 2 1	2 5 5	5 1 4 2	0 1 4	3 7 1	1 8 7	0 0 8		
17	9 7 5	0 0 2	0 0 5 6	5 2 0	0 6 4	5 0 4 3	0 2 6	1 0 9	5 0 8 4	0 2 1	1 5 6	5 1 0 3	0 1 7	2 5 7	5 1 8 1	0 1 0	3 7 1	2 3 2	0 0 7		
18	9 9 9	0 0 1	4 0 3 5	5 0 0	0 8 4	5 0 5 3	0 2 5	1 2 6	5 0 8 2	0 2 1	1 7 6	5 0 1 6	0 0 9	2 8 1	5 0 8 4	0 1 5	3 9 9	1 6 4	0 0 9		
19	9 9 6	0 0 3	6 0 4 0	5 0 3	0 8 2	5 0 3 1	0 2 9	1 2 7	5 0 6 1	0 2 5	1 7 5	5 0 2 0		2 8 1	5 0 3 4						
20	0 0 6	0 0 3	4 0 3 5	5 0 5	0 9 0	5 0 2 6	0 3 1	1 3 5	5 0 6 2	0 2 7	1 8 2	5 0 5 7	0 1 1	2 8 7	5 0 7 3	0 1 8	4 0 5	1 5 2	0 1 0		
21	9 9 3	0 0 5	5 0 5 4	5 0 5	0 8 0	5 0 0 0	0 3 9	1 2 6	5 0 0 7	0 4 5	1 7 5	5 0 0 4	0 4 4	2 8 1	5 0 3 2	0 3 8	4 0 2	1 0 5	0 2 3		
22	0 0 5	0 0 3	4 0 3 4	5 0 5	0 8 9	5 0 0 4	0 3 2	1 3 5	5 0 0 1	0 1 3	1 8 3	5 0 1 0	0 1 1	2 8 9	5 0 5 5	0 2 0	4 0 8	1 3 2	0 1 1		
23	9 9 6	0 0 3	7 0 4 0	5 0 3	0 8 2	5 0 2 1	0 3 3	1 2 7	5 0 5 0	0 2 9	1 7 4	5 0 7 6	0 2 5	2 7 8	5 1 2 9	0 2 0	3 9 3	1 7 5	0 0 5		
24	0 1 1	0 0 3	7 0 4 7	5 0 9	0 9 5	5 0 7 0	0 7 0	1 4 2	5 0 5 0	0 6 4	1 9 1	5 0 2 4	0 5 1	2 9 8	5 0 3 5	0 1 7	4 1 9	0 6 8	0 1 4		
25	9 9 5	0 0 6	6 0 5 8	5 0 4	0 8 5	5 0 4 2	0 5 5	1 2 9	5 0 5 5	0 6 6	1 7 9	5 0 3 2	0 5 7	2 8 5	5 0 3 3	0 4 0	4 0 6	0 8 1	0 2 7		
26	0 0 2	0 0 5	5 0 4 1	5 0 2	0 8 7	5 0 3 0	0 2 8	1 3 2	5 0 5 8	0 2 6	1 7 9	5 0 7 4	0 2 1	2 8 2	5 0 6 3	0 4 2	1 1 6				
27	0 0 5	0 0 5	8 0 5 2	5 0 5	0 9 1	5 0 4 2	0 5 5	1 3 7	5 0 5 6	0 5 4	1 8 7	5 0 4 0	0 5 1	2 9 5	5 0 1 9	0 3 7	4 1 5	0 9 3	0 2 4		
28	0 0 4	0 0 2	9 0 3 7	5 0 4	0 8 8	5 0 3 4	0 3 0	1 3 3	5 0 6 1	0 2 5	1 8 0	5 0 6 1	0 1 1	2 8 4	5 0 8 2	0 0 7	4 0 2	1 5 3	0 1 4		

DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS			60 MILLIBARS		
	HHH	TTT	WW	HHH	TTT	WW																		
01	5 3 2	2 4 5	6 9 1	3 6 6	0 3	8 8 4	5 1 1																	
02	5 4 1	2 0 0	0 8	7 0 2	3 1 9	0 5	9 0 0	4 4 2	1 6 3	5 1 0	3 5 1	4 8 3	6 2 0	4 6 3	7 6 8	4 5 8	9 6 0	4 5 0						
03	5 1 8	2 9 5	0 2	6 7 4	3 9 5	0 1	8 7 2	3 8 8	1 4 9	4 1 2	3 4 2	4 3 5												
04	5 2 5	2 9 0	0 2	6 8 1	4 0 3		8 7 3	4 5 5	1 4 4	4 4 7	3 3 6	4 3 8	6 0 9	4 3 3										
06	5 1 4	3 2 1		6 6 9	3 9 6																			
09	5 5 7	1 7 5	1 4	7 2 0	2 8 3	0 6	9 2 5	4 3 8	1 8 1	5 9 2	3 6 2	5 4 6	6 2 4	5 1 6	7 6 9	4 9 3	9 5 9	4 6 7						
10	5 6 4	1 3 6		7 3 0	2 2 6		9 3 5	3 7 7	2 0 1	5 7 8	3 8 0	6 2 2	6 3 4	5 3 7	7 7 8	5 0 7	9 6 7	4 7 2						
11	5 2 1	2 5 9		6 7 9	3 7 6	0 1	8 7 4	4 1 4																
12	5 1 5	3 0 2	0 3	6 6 9	4 3 0	0 0	8 5 9	4 5 7	1 5 3	4 2 6	3 2 6	4 2 5	5 9 9	4 2 3	7 5 0	4 3 5	9 4 3	4 3 0						
13	5 1 4	3 2 7	0 3	6 6 8	4 3 8	0 1	8 5 5	5 2 8	1 2 6	4 2 7	3 2 0	4 2 5	5 9 3	4 4 5	7 4 2	4 4 1	9 3 6	4 2 8						
14	5 3 3	2 1 6	1 1	6 9 3	3 4 3	0 4	8 8 8	5 0 5	1 4 8	4 9 6	3 3 6	5 1 4	5 9 8	5 1 8	7 4 3	5 0 3	9 3 1	4 9 7						
15	5 1 7	2 0 7	1 2																					
16	5 0 3	2 9 4	0 4	6 5 9	4 0 7	0 2	8 4 8	5 5 7	1 2 0	4 0 9	3 1 5	4 2 1	5 8 9	4 2 7										
17	5 0 3	3 0 6	0 4	6 5 8	4 0 9	0 2	8 5 0	4 4 8	1 2 5	4 1 3	3 1 9	4 1 4	5 9 3	4 2 6	7 4 3	4 2 5	9 3 9	4 0 0						
18	5 3 5	2 2 6		6 9 5	3 3 8		8 9 2	4 4 4	1 5 7	5 0 2	3 4 6	4 9 5	6 1 2	4 9 3	7 5 9	4 7 4	9 5 0	4 4 7						
20	5 4 0	2 4 7	0 5	6 9 9	3 5 9		8 9 2	5 1 0	1 5 3	5 2 0	3 4 0	4 9 5	6 0 7	4 7 0	7 5 4	4 6 6	9 4 6	4 3 8						
21	5 4 0	2 0 4	0 4	7 0 0	3 2 6	0 4	8 9 7	4 8 0																
22	5 4 5	2 0 3	0 4	7 0 6	3 1 7	0 4	9 0 4	4 5 8	1 6 4	5 6 1	3 4 8	5 3 2	6 1 2	4 9 3	7 5 9	4 9 3	9 4 9	4 5 2						
23	5 2 9	2 2 0		6 9 0	3 3 4		8 8 6	4 7 7	1 5 6	4 4 1	3 4 8	4 7 2	6 1 8	4 7 0										
24	5 5 9	1 6 2	0 8	7 2 3	2 9 1	0 3	9 2 2	4 4 3	1 8 4	5 5 2	3 6 7	5 4 4	6 2 4	5 6 5	7 6 6	5 3 0	9 5 4	4 5 9						
26	5 3 9	2 1 7		6 9 9	3 3 3		8 9 7	4 2 9																
27	5 5 4	1 7 5	1 3	7 1 8	2 9 8	0 5	9 1 6	4 6 3	7 7 6	5 5 3	3 4 9	5 1 3	6 1 3	4 8 2	7 6 0	4 7 8	9 5 2	4 4 4						
28	5 3 9	2 0 3	1 1	7 0 2	2 9 3	0 6	9 0 1	4 3 2	1 6 3	5 6 4														

**RESULTS OF RADIOSONDE OBSERVATIONS AT
FOR THE MONTH OF HEARD ISLAND
MARCH 1951**

DAY	SURFACE			1000 MBS		900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS		
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	
01	0 0 3	0 0 2	1 0 2	9	0 0 3	0 8 7	5 0 5 5	0 2 4	1 3 1	5 0 9 3	0 2 0	1 7 8	5 1 3 3	0 1 3	2 7 9	5 1 0 7	3 9 7	1 1 3	0 1 7	
02	9 9 5	0 0 3	2 0 3	9	5 0 3	0 8 1	5 0 3 0	0 3 0	1 2 6	5 0 7 1	0 2 1	1 7 3	5 1 0 8	0 1 8	2 7 6	5 0 7 0	3 9 5	1 1 9	0 0 6	
03	0 0 7	0 0 4	5 0 4	0	0 0 5	0 9 1	5 0 3 8	0 2 9	1 3 6	5 0 7 3	0 2 3	1 8 3	5 1 0 1	0 1 5	2 8 5	5 0 9 4	4 0 4	1 2 9	0 0 6	
04	1 0 0	0 0 3	5 0 5	4 5	0 0 9	0 9 4	0 0 7 5	0 6 1	1 4 1	0 0 3 1	0 4 6	1 9 0	0 0 4 8	0 3 2	2 9 8	0 0 1 3	0 1 6	4 2 0	0 5 9	
05	9 9 1	0 0 4	5 0 5	5 3	5 0 7	0 7 9	0 0 5 6	0 6 4	1 2 6	0 0 7 1	0 7 5	1 7 5	0 0 4 5	0 6 6	2 8 3	0 0 0 6	0 5 6	4 0 6	0 6 4	
06	9 9 7	0 0 3	0 0 4	1 1	5 0 2	0 8 3	5 0 1 2	0 3 6	1 2 8	5 0 0 6	0 4 1	1 7 7	0 0 0 8	0 5 0	2 8 3	0 0 5 1	0 3 7	4 0 2	1 5 8	
07	9 8 9	0 0 4	5 0 4	4 4	5 0 9	0 7 7	5 0 1 9	0 3 2	1 2 2	5 0 5 3	0 2 8	1 6 9	5 0 7 3	0 2 6	2 7 2	5 1 5 2	0 1 4	3 8 7	1 9 7	
08	0 1 1	0 0 3	9 0	3 5	0 0 9	0 9 3	5 0 3 8	0 2 7	1 3 9	5 0 3 6	0 1 5	1 8 9	5 0 3 4	0 1 3	2 9 6	5 0 2 5	0 1 3	4 1 7	0 8 3	
09	0 1 0	0 0 3	4 0	3 6	0 0 9	0 9 4	0 0 2 5	0 1 9	1 4 0	5 0 0 6	0 2 0	1 8 8	0 0 0 9	0 2 9	5 0 2 6	4 1 5	0 9 9	0 2 0		
10	0 0 0	0 0 2	9 0	4 4	0 0 1	0 8 5	0 0 0 2	0 4 1	1 3 1	5 0 1 0	0 4 0	1 8 0	0 0 0 4	0 4 7	2 8 6	5 0 5 2	0 3 3	4 0 6	1 0 7	
11	9 9 6	0 0 3	3 0	3 6	5 0 3	0 8 1	5 0 4 2	0 2 8	1 2 6	5 0 7 6	0 2 4	1 7 3	5 0 9 9	0 1 8	2 7 5	5 1 3 8	0 0 6	3 9 1	1 8 5	
12	0 0 1	0 0 3	7 0	3 8	0 0 1	0 8 5	5 0 4 7	0 2 6	1 2 9	5 0 8 5	0 2 1	1 7 7	5 0 4 4	0 1 5	2 8 1	5 0 7 3	0 0 9	3 9 9	1 6 3	
13	0 0 0	0 0 2	7 0	3 4	0 0 1	0 8 5	5 0 3 0	0 2 6	1 3 0	5 0 0 4	0 3 9	1 7 9	5 0 2 3	0 3 9	2 8 5	5 0 5 4	0 3 4	4 0 5	1 1 0	
14	9 9 1	0 0 3	6 0	3 9	5 0 7	0 7 8	5 0 3 3	0 2 8	1 2 3	5 0 7 4	0 2 1	1 7 0	5 1 0 0	0 1 6	2 7 1	5 1 7 8	0 0 9	3 9 5	2 3 8	
15	9 9 9	0 0 1	2 0	5 0	5 0 0	0 8 3	5 0 6 5	0 2 3	1 2 8	5 1 0 3	0 1 8	1 7 4	5 1 3 3	0 1 4	2 7 5	5 2 0 0	0 0 7	3 8 7	2 7 4	
16	0 2 2	0 0 2	7 0	3 3	0 1 8	1 0 1	5 0 6 2	0 1 9	1 4 6	5 1 0 2	0 1 6	1 9 2	5 1 1 1	0 0 8	2 9 5	5 1 2 2	0 1 5	4 1 1	1 8 6	
17	0 0 4	0 0 4	4 0 2	0 0 4	0 8 8	5 0 2 3	0 3 4	1 3 3	5 0 6 1	0 2 8	1 8 1	5 0 9 1	0 2 4	2 8 4	5 0 9 2	0 4 4	4 0 1	1 5 2		
18	9 9 8	0 0 6	7 0	6 0	5 0 1	0 8 6	5 0 6 4	0 6 6	1 3 2	5 0 3 4	0 5 8	1 8 2	0 0 3 9	0 6 3	2 9 1	5 0 0 6	0 4 4	4 1 5	0 6 2	
19	0 1 4	0 0 3	7 0	3 9	0 1 2	0 9 6	5 0 4 2	0 2 7	1 4 1	5 0 4 6	0 2 3	1 8 9	5 0 5 6	0 1 2	2 9 1	5 1 2 5	0 0 6	4 0 7	2 0 2	
20	0 2 2	0 0 4	1 0	3 8	0 1 8	1 0 2	5 0 3 5	0 1 8	1 4 7	5 0 2 9	0 1 7	1 9 5	5 0 1 5	0 3 6	3 0 2	5 0 3 2	0 4 0	4 2 2	1 0 2	
21	0 1 5	0 0 4	7 0	5 0	0 1 3	0 9 9	5 0 5 2	0 5 6	1 4 5	5 0 2 2	0 0 2 2	1 9 4	0 0 0 9	0 4 8	3 0 1	5 0 2 0	0 3 0	4 2 2	0 8 1	
22	0 1 9	0 0 4	1 0	3 2	0 1 6	0 9 9	5 0 5 5	0 1 8	1 4 5	5 0 1 6	0 1 6	1 9 5	5 0 4 5	0 0 9	2 9 7	5 0 8 3	4 1 5	1 1 8		
23	0 1 8	0 0 3	8 0	4 5	0 1 5	1 0 1	0 0 3 9	0 4 4	1 4 7	5 0 1 4	0 1 4	1 9 6	5 0 4 3	0 2 5	3 0 4	5 0 1 0	0 2 6	4 2 6	0 9 5	
24	0 2 0	0 0 5	4 0	4 6	0 1 7	1 0 2	0 0 4 4	0 5 5	1 4 9	5 0 2 8	0 4 9	1 9 8	0 0 3 5	0 1 7	3 0 5	5 0 1 0	0 2 5	4 2 7	0 8 5	
25	9 9 6	0 0 7	9 0	6 0	5 0 3	0 8 3	0 0 4 0	0 5 4	1 3 0	5 0 3 4	0 5 8	1 7 9	0 0 3 4	0 6 1	*	*	*	*	*	
26	0 0 2	0 0 4	6 0	4 0	0 0 2	0 8 7	5 0 2 4	0 3 4	1 3 2	5 0 4 9	0 5 0	1 7 9	5 0 6 6	0 2 7	2 8 3	5 0 8 5	0 2 4	4 0 3	1 1 3	
27	0 0 3	0 0 7	7 0	5 6	0 0 3	0 8 9	0 0 1 6	0 4 5	1 3 5	5 0 0 7	0 4 7	1 8 4	0 0 3 8	0 6 3	2 9 2	5 0 1 6	0 4 5	4 1 3	0 6 6	
28	0 1 1	0 0 1	5 0	3 5	0 0 9	0 9 3	5 0 5 0	0 2 3	1 3 8	5 0 7 5	0 1 4	1 8 5	5 0 9 5	0 0 7	2 8 8	5 1 0 6	0 1 2	4 0 5	1 6 2	
29	0 1 5	0 0 2	9 0	4 0	0 1 3	0 9 7	5 0 1 8	0 3 2	1 4 2	5 0 1 0	0 1 8	1 9 1	5 0 1 6	0 2 4	2 9 6	5 0 7 9	0 1 3	4 1 2	1 4 1	
30	0 1 5	0 0 3	3 0	4 4	0 1 3	0 9 8	0 0 2 5	0 4 9	1 4 4	5 0 3 0	0 5 6	1 9 3	5 0 0 1	0 5 0	3 0 0	5 0 3 3	0 3 9	4 2 0	0 9 5	
31	0 0 1	0 0 6	7 0	5 4	0 0 1	0 8 8	0 0 8 2	0 7 0	1 3 5	5 0 7 4	0 7 1	1 8 5	5 0 5 0	0 6 5	2 9 3	5 0 0 3	0 5 3	4 1 5	0 6 5	

DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS		
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	HHH	TTT	HHH	TTT	HHH	TTT	HHH	TTT	HHH	TTT	HHH	TTT	
01	5 3 4	2 1 0	1 1	6 9 6	3 1 4	0 5	8 9 3	4 5 9	1 6 4	4 3 1							5 5 5	7 7 6	5 2 3	9 5 3	4 8 0
02	5 3 3	1 9 7	0 9	6 9 5	2 5 5	0 9	9 0 0	3 7 2	1 6 9	4 7 0							5 4 3	7 6 7	5 2 8	9 5 4	4 9 5
03	5 4 0	2 3 1	7 0 0	3 3 9	0 3	8 9 5	4 6 8	1 6 6	4 5 2												
04	5 6 0	1 5 4	0 9	7 2 6	2 4 7	1 0	9 2 9	3 9 4	1 9 4	5 4 8	3 7 6	5 8 3	6 3 3	5 5 5	7 7 6	5 2 3	9 5 3	4 8 0			
05	5 4 6	1 4 8	1 7	7 1 0	2 7 8	0 6	9 1 1	4 4 9	1 7 8	4 7 3	3 6 5	5 3 6	6 2 4	5 4 3	7 6 7	5 2 8	9 5 4	4 9 5			
06	5 3 7	2 2 9	6 9 7	3 6 1			9 9 1	4 7 5	1 6 1	4 6 7	3 5 1	4 6 9	6 1 8	5 1 2	7 6 2	4 8 5					
07	5 2 0	2 8 4	0 2	6 7 6	4 1 2	0 1	8 6 6	5 0 3	1 3 8	4 1 6	3 3 2	4 5 6	6 0 1	4 6 3	7 4 9	4 6 5	9 4 0	4 6 5			
08	5 5 7	1 6 3	7 2 1	2 9 1	0 4		9 2 0	4 4 6	1 8 2	5 8 3	3 6 2	5 4 8	6 2 4	5 0 4	7 7 0	4 6 7	9 5 1	4 5 0			
09	5 5 4	1 8 6	0 9	7 1 7	3 0 8	0 3	9 1 3	4 7 2	1 7 1	5 9 0	3 5 3	5 6 6	6 1 2	5 2 5	7 5 6	5 1 0	9 4 4	4 9 3			
10	5 4 3	1 9 0	1 2	7 0 6	2 9 8	0 4	9 0 5	4 4 9	1 6 5	5 5 5	3 4 9	5 2 4	6 1 1	5 0 2	7 5 7	4 8 5					
11	5 2 7	2 3 9	6 8 6	3 2 7			8 8 3	4 5 8													
12	5 3 5	2 3 6	0 6	6 9 5	3 2 3		8 9 1	4 6 2													
13	5 4 3	1 9 4	1 3	7 0 5	2 9 4	0 6	9 0 5	4 3 7	1 6 7	5 6 4	3 5 1	5 4 0									
14	5 1 6	3 0 0	6 7 2	3 8 5	0 1		8 6 7	4 6 1	1 4 1	4 1 9	3 3 3	4 6 5	6 0 1	4 6 7	7 4 8	4 7 1	9 3 9	4 7 3			
15	5 1 7	3 3 3	0 4	6 7 0	4 5 8	0 1	8 5 8	5 1 8	1 2 7	4 4 9	3 1 9	4 6 7	5 8 9	4 7 4							
16	5 4 5	2 8 0	0 4	7 0 2	3 7 1	0 2	9 0 9	4 8 7	1 6 6	5 5 5	3 4 9	5 4 8	6 0 7	5 5 0	7 4 9	5 5 2	9 3 4	5 2 0			
17	5 3 7	2 5 6	6 9 5	3 6 3	0 2		8 9 6	5 0 4	1 5 1	5 5 8	3 3 5	5 4 2	5 9 6	5 2 7	7 4 1	4 9 7	9 2 9	4 7 7			
18	5 5 6	1 4 0	1 9	7 2 1	2 6 4	0 7	9 2 3	4 5 4</td													

RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF APRIL 1951

DAY	SURFACE			1000 MBS.		900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS			
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW											
01	9 8 9	0 0 4	0 0 3 8	5 0 8	0 7 6	5 0 3 1	0 2 9	1 2 1	5 0 6 1	0 2 3	1 6 8	5 0 8 3	0 1 2	2 7 1	5 1 4 5	0 0 4	3 8 6	2 1 5	0 0 6		
02	0 1 2	0 0 3	0 3 0 7	0 1 0	0 9 4	5 0 5 0	0 2 0	1 3 9	5 0 8 5	0 1 5	1 8 6	5 0 8 1	0 0 6	2 8 9	5 0 8 8	0 2 0	4 0 6	1 2 3	0 2 0		
03	9 9 0	0 0 3	0 3 1	5 0 8	0 7 7	5 0 4 0	0 2 5	1 2 2	5 0 8 4	0 1 7	1 6 8	5 1 1 9	0 0 8	2 6 9	5 1 9 8	0 0 3	3 8 1	2 9 5	0 0 2		
04	0 1 1	0 0 3	0 3 0 5	0 0 9	0 9 3	5 0 5 5	0 2 0	1 3 8	5 0 5 0	0 1 9	1 8 5	5 0 9 1	0 1 4	2 8 8	5 0 9 8	0 1 5	4 0 6	1 5 1	0 1 0		
05	0 0 3	0 0 4	0 0 4 7	0 0 3	0 8 8	0 0 0 4	0 4 3	1 3 4	0 0 0 7	0 4 7	1 8 3	5 0 0 6	0 4 5	2 8 9	5 0 5 7	0 2 9	4 0 9	0 9 9	0 2 4		
06	0 0 6	0 0 2	0 0 3 9	0 0 5	0 8 9	5 0 4 2	0 2 8	1 3 4	5 0 7 1	0 2 4	1 8 1	5 0 7 7	0 2 0	2 8 5	5 1 2 6	0 1 7	4 0 2	1 3 0	0 0 6		
07	0 1 3	0 0 2	0 0 4	0 1 1	0 9 5	5 0 3 9	0 1 4	1 4 0	5 0 3 9	0 3 2	1 8 8	5 0 0 1	0 1 3	2 9 4	5 0 6 0	0 1 1	4 1 3	1 3 0	0 0 7		
08	0 0 9	0 0 8	0 0 6 1	0 0 8	0 9 5	0 0 7 7	0 6 8	1 4 2	0 0 4 4	0 5 9	1 9 1	0 0 1 6	0 5 3	2 9 8	5 0 5 3	0 3 0	4 1 8	1 2 0	0 0 6		
09	9 8 5	0 0 6	0 0 5 7	5 1 2	0 7 5	0 0 7 5	0 7 0	1 2 2	0 0 7 0	0 7 5	1 7 1	0 0 4 1	0 6 4	2 7 9	5 0 4 2	0 3 9					
10	0 1 4	0 0 3 5	0 3 3	0 1 2	0 9 6	5 0 5 5	0 2 0	1 4 0	5 0 8 3	0 1 1	1 8 7	5 1 2 2	0 0 7	2 8 8	5 1 3 2		4 0 6	1 2 7	0 0 7		
11	0 0 0	0 0 4 8	0 0 5 0	0 0 1	0 8 6	0 0 2 6	0 5 0	1 3 2	0 0 0 9	0 4 7	1 8 1	5 0 1 8	0 4 2	2 8 5	5 1 0 7	0 1 2	4 0 4	1 2 5			
12	0 0 6	0 0 4	0 4 5	0 0 5	0 9 0	5 0 2 5	0 3 1	1 3 5	5 0 4 5	0 2 1	1 8 3	5 0 6 9	0 1 0	2 8 6	5 1 4 1	0 0 7	4 0 1	2 6 0			
13	9 9 6	0 1 1	0 0 3 6	5 0 3	0 8 1	5 0 4 5	0 2 9	1 2 6	5 0 5 8	0 2 4	1 7 5	5 1 0 1	0 1 9	2 7 5	5 1 7 4	0 1 1	3 8 8	2 7 6	0 0 5		
14	0 1 5	0 0 3	0 3 1	0 1 3	0 9 6	5 0 6 6	0 1 7	1 4 0	5 0 9 2	0 1 0	1 8 7	5 1 2 8	0 0 7	2 8 7	5 2 0 4	0 0 5	4 0 1	1 6 0	0 1 2		
15	0 2 2	0 0 2 5	0 3 4	0 1 8	1 0 2	5 0 6 2	0 2 5	1 4 6	5 0 6 8	0 2 1	1 9 3	5 0 9 1	0 1 8	2 9 6	5 1 1 8	0 1 9	4 1 4	1 6 0	0 1 2		
16	0 0 1	0 0 4 5	0 3 7	0 1 4	0 9 9	5 0 0 4	0 3 7	1 4 4	5 0 4 6	0 1 9	1 9 3	5 0 0 4		2 9 9	5 0 1 8		4 2 0	1 0 9	0 0 8		
17	0 0 9	0 0 3 5	0 4 0	0 0 8	0 9 3	0 0 1 4	0 4 4	1 3 9	5 0 1 4	0 4 0	1 8 7	5 0 2 8	0 3 8	2 9 2	5 0 5 9	0 3 3	4 1 1	1 4 8	0 0 7		
18	0 0 2	0 0 3 4	0 3 9	0 0 2	0 8 7	5 0 0 4	0 2 0	1 3 2	5 0 2 5	0 1 0	1 8 0	5 0 4 0	0 1 2	2 8 5	5 0 6 0	0 3 0	4 0 3	1 5 4	0 1 9		
19	9 7 8	0 0 4	0 0 4 7	5 1 8	0 6 8	5 0 0 1	0 3 9	1 1 3	5 0 3 2	0 3 5	1 6 1	5 0 3 2	0 3 5	2 6 6	5 0 8 3	0 1 8	3 8 5	1 1 4			
20	9 9 3	0 0 2	0 0 3 4	5 0 5	0 7 9	5 0 3 8	0 2 9	1 2 4	5 0 7 2	0 2 1	1 7 1	5 1 1 4	0 1 4	2 7 2	5 1 9 1	0 0 6	3 8 6	2 3 0			
21	0 0 0	0 0 3	0 3 6	0 0 1	0 8 5	5 0 4 8	0 2 6	1 2 9	5 0 7 8	0 2 2	1 7 6	5 1 2 5	0 1 4	2 7 7	5 1 6 2	0 0 4	3 9 2	2 2 3			
22	9 6 2	0 0 1	0 4 1	5 3 1	0 5 4	5 0 1 3	0 3 8	0 9 9	5 0 3 4	0 3 4	1 4 7	5 0 6 1	0 2 8	2 5 0	5 1 3 7	0 1 5	3 6 5	2 2 4	0 0 7		
23	9 8 4	0 0 0	0 3 1	5 1 2	0 7 1	5 0 6 9	0 2 2	1 1 5	5 1 0 2	0 1 9	1 6 2	5 1 3 5	0 1 5	2 6 3	5 1 6 3	0 1 0	3 7 7	2 4 8	0 0 5		
24	0 0 6	0 0 1	0 0 3 0	0 0 5	0 8 9	5 0 6 6	0 2 2	1 3 3	5 1 0 2	0 2 0	1 8 0	5 1 3 2	0 1 5	2 8 1	5 1 5 0	0 1 3	3 9 6	2 1 5	0 0 9		
25	0 0 6	0 0 2	0 0 3 6	0 0 5	0 8 9	5 0 5 0	0 2 6	1 3 4	5 0 2 1	0 0 8	1 8 3	5 0 1 1		2 8 9	5 0 5 4		4 0 8	1 3 7			
26	0 0 2	0 0 2	0 0 3 5	0 0 2	0 8 6	5 0 5 7	0 2 4	1 3 1	5 0 9 3	0 2 0	1 7 7	5 1 2 7	0 1 6	2 7 8	5 1 7 5		3 9 3	1 6 5			
27	9 9 4	0 0 5	0 0 2 4	5 0 4	0 8 1	0 0 0 4	0 4 1	1 2 7	0 0 1 3	0 4 8	1 7 5	5 0 1 2	0 4 4	2 8 0	5 0 8 3	0 1 7	3 9 9	1 4 9	0 1 2		
28	9 9 7	0 0 2	0 0 3 4	5 0 2	0 8 2	5 0 4 6	0 2 4	1 2 7	5 0 7 9	0 1 7	1 7 4	5 1 1 5	0 1 5	2 7 5	5 1 2 8		3 9 2	1 9 0			
29	9 7 6	0 0 2	0 0 3 8	5 1 9	0 6 5	5 0 3 6	0 2 9	1 1 0	5 0 7 1	0 2 4	1 5 7	5 1 0 2	0 2 0	2 5 9	5 1 6 4	0 1 1	3 7 4	2 2 2	0 0 4		
30	9 8 3	0 0 0	0 0 3 6	5 1 3	0 7 1	5 0 4 5	0 2 8	1 1 5	5 0 8 3	0 2 2	1 6 2	5 1 1 2	0 1 9	2 6 5	5 1 9 5	0 0 9	3 7 5	2 8 9	0 0 4		
DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS		
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW
01	5 1 7	2 9 2	0 5	7 0 7	3 2 1	0 4	9 0 3	4 9 4	1 5 9	6 0 7	3 4 2	5 2 2	6 0 3	5 1 9	7 4 9	4 7 0	9 3 7	4 8 3			
02	5 4 6	2 1 2	1 1	6 6 9	3 6 1	0 4	8 6 4	4 3 9			3 1 4	5 0 3	5 7 9	4 8 5	7 2 6	5 0 0	9 1 5	4 6 8			
03	5 1 1	2 8 7					9 9 3	5 2 2	1 5 1	5 0 1	3 3 8	5 0 1	6 0 3	5 1 4	7 4 8	5 0 6	9 3 5	4 6 1			
04	5 4 1	2 4 2	0 6	7 0 0	3 5 6	0 4	9 9 3	5 2 2	1 5 1	5 0 1	3 3 8	5 0 1	6 0 3	5 1 4	7 4 8	5 0 6	9 3 5	4 6 1			
05	5 4 7	1 9 5	1 2	7 0 9	3 0 7	0 5	9 0 7	4 6 7	1 6 4	6 2 4	3 4 5	5 5 7	6 0 5	5 1 4	7 5 0	5 0 7	9 3 8	5 0 4			
06	5 3 9	2 1 3	0 4	7 0 1	2 9 5	0 3	9 0 0	4 4 0													
07	5 4 9	2 3 6	0 7	7 0 9	3 6 5	0 3	9 0 2	5 1 8	1 5 6	5 8 9	3 3 8	5 5 6	5 9 7	5 3 4	7 4 2	5 1 6	9 2 9	5 0 4			
08	5 5 5	1 7 9	1 0	7 1 9	2 9 3	0 5	9 1 7	4 5 7	1 7 5	6 5 2	3 5 4	5 6 8	6 1 1	5 6 0	7 5 4	5 4 9					
10	5 4 3	2 0 5	0 4	7 0 3	3 3 3	0 2	9 0 0	4 7 4	1 5 8	5 9 4	3 4 2	5 2 3	6 0 4	5 1 1	7 5 0	5 0 0					
12	5 4 1	2 1 7	0 9	7 0 2	3 2 2	0 5	9 0 3	4 2 5	1 2 7	5 0 9	3 1 7	5 1 2 7	6 0 5	5 1 2	7 7 7	5 4 9					
13	5 1 7	3 8 6	0 2	6 6 7	4 7 9	0 1	8 5 4	4 7 3	1 2 3	4 5 9	3 1 4	4 7 3	5 8 1	4 7 0	7 2 8	4 6 8	9 1 8	4 8 8			
14	5 3 1	3 5 1		6 8 2	4 5 4		8 6 7	6 1 4	1 2 7	5 1 6	3 1 4	5 0 3	5 7 9	4 8 5	7 2 6	5 0 0	9 1 5	4 6 8			
15	5 4 8	2 5 6	0 6	7 0 6	3 7 0	0 2	8 9 8	5 3 5	1 5 1	6 3 0	3 3 0	5 7 3	5 8 5	5 1 2	7 3 0	5 3 4	9 1 4	5 1 7			
16	5 5 8	1 8 4		7 2 0	3 2 1	0 1	9 1 7	4 6 8	1 7 3	6 7 3	3 4 7	6 4 1	5 9 9	5 7 1	7 4 0	5 7 1	9 2 3	5 6 3			
17	5 4 6	2 3 7		7 0 5	3 6 0		8 9 9	4 9 8	1 5 4	5 8 9	3 3 7	5 7 3	5 9 5	5 6 0	7 3 7	5 6 1	9 1 9	5 7 6			
18	5 4 0	1 8 7	1 4	7 0 4	2 8 5	0 7	9 0 3	4 4 9	1 6 1	6 3 6	3 4 0	5 7 0	5 9 7	5 6 2	7 3 9	5 4 8	9 2 2	5 4 2			
19	5 2 2	2 3 0		6 8 2	3 4 6		8 6 1	4 8 4	1 2 8	4 8 1	3 1 6	5 1 4	5 8 1	5 2 6	7 2 7	4 8 4					
20	5 1 7	3 3 3	0 1	6 7 0	4 3 1		8 6 1	4 8 4	1 2 8	4 8 1	3 1 6	5 1 4	5 8 1	5 2 6	7 2 7	4 8 4					
21	5 2 4	3 0 7		5 7 8	4 1 9		8 6 7	5 4 0	1 2 7	5 2 1	3 1 2	5 5 0	5 7 6	5 1 3	7 2 2	4 8 6	9 1 2	4 5 8			
22	4 9 6	3 3																			

RESULTS OF RADIOSONDE OBSERVATIONS AT **HEARD ISLAND**
FOR THE MONTH OF **MAY** **1951**

DAY	SURFACE			1000 MBS.		900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS		
	PPP	TTT	WWW	HHH	HHH	TTT	WWW													
01	006	001	031	005	089	5048	027	134	5067	026	181	5100	021	284	5123	019	400	1920	011	
02	998	006	055	501	085	0019	045	131	5012	039	179	5024	039							
03	996	004	047	503	5004	039	128	5016	038	176	5029	038	282	5052	029	402	1180	005		
04	012	005	041	010	095	5025	028	140	5058	020	187	5098	018	289	5154		406	194		
05	005	005	052	005	091	0065	066	138	0054	065	187	0025	057	295	5004	011				
06	977	003	033	516	067	5020	027	112	5016	159	5088	021	261	5154	014					
07	996	001	030	503	081	5058	021	125	5100	017	172	5122	013	272	5180	004	387	223		
08	008	002	036	007	091	5030	031	136	5045	051	184	5058	027	287	5103	022	405	1620	014	
09	997	002	040	502	083	0011	043	129	5006	038	177	5027	031	282	5040		402	1120	017	
10	008	002	038	007	091	0023	025	137	0015	018	0008	040	292	5052	033	413	086	026		
11	996	007	030	503	084	0109	091	131	0062	066	181	0014	041							
12	997	006	056	502	085	0098	085	132	0069	074	179	0045	063	285	5021	045	406	0950	029	
13	006	001	028	005	089	5038	018	134	0010	183	5002		288	5082		406	157			
14	985	000	028	512	072	5044	023	117	5075	021	164	5121	016	265	5205	009	378	2810	003	
15	949	001	033	500	084	5050	026	128	5081	023	175	5108	019	277	5142	015	394	1780	012	
16	006	002	036	005	090	5037	029	135	5020	035	183	5046	030	288	5081	009	406	1380	009	
17	986	002	022	511	073	5048	020	118	5086	017	164	5171	009	265	5193	007	582	1450	006	
18	006	500	2019	005	087	5087	015	131	5131	013	177	5155	011	277	5196		390	263		
19	005	001	023	003	087	5052	026	131	5088	021	178	5082	015	282	5102		399	1540	009	
20	982	002	030	514	070	5035	026	115	5074	023	162	5104	015	263	5173	004	377	248		
21	987	002	033	510	074	5049	025	119	5084	022	165	5118	017	266	5186	010	379	2830	004	
22	998	000	030	501	082	5075	022	127	5106	018	173	5140	014	274	5170	012	388	2460	006	
23	999	004	044	500	085	0021	046	131	0033	053	180	5006	041	287	5006	015	406	1070	010	
24	006	003	040	005	091	0038	041	137	5009	032	185	5006	020	292	5026	013	414	088		
25	997	004	040	005	083	0024	047	129	0010	045	178	5010	041	284	5061	031	405	1360	016	
26	991	000	035	507	077	5046	027	122	5037	027	170	5045	019	274	5098	006	392	140		
27	997	501	1025	502	081	5070	019	125	5106	015	172	5135	008	273	5170		388	172		
28	009	500	2019	008	090	5086	016	134	5117	014	181	5117	008	282	5169		396	246		
29	006	000	025	005	089	5041	016	133	5061	008	181	5088	006	283	5136		399	192		
30	008	002	0431	007	091	5029		136	5007		184	5015		290	5035		410	094		
31	990	003	7042	508	077	5014	035	123	5052	028	170	5070	023	273	5136	005	388	2270	005	

DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS		200 MILLIBARS		150 MILLIBARS		100 MILLIBARS		80 MILLIBARS		60 MILLIBARS	
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	HHH	TTT	HHH	TTT	HHH	TTT	HHH	TTT	HHH	TTT
01	533	294	05	689	411	02	878	556	129	582	313	532	543	739	533	924	528	
03	539	221		699	338		896	454	155	604	337	559	595					
04	539	284		696	360		891	473	152	561	336	539	598	534				
07	518	314		672	449													
08	539	255	07	698	356	03	891	498	146	610	330	540	591	518	736	510	924	476
09	539	214	08	700	330	03	895	498	150	613	332	562	591	527				
10	551	196	12	713	319	05	908	485	165	649	341	583	595	586	736	552	920	556
12	545	180	05	706	333	02												
13	540	274		697	351		894	465	153	603								
14	507	349																
15	528	255	07	686	377	02	879	499	113	615	315	555	573	555	715	562		
16	543	230	07	703	344	03	897	503	150	647	329	592	583	584	723	585	909	593
17	517	239	05	676	361	02	871	480	133	525								
18	521	337		673	461		860	564	121	504	309	520	571	538	714	550		
19	534	246	07	693	350	04	887	505	140	628	319	568	576	570	718	552	901	572
20	510	249		669	323													
21	508	353	02	660	460	01	847	545	109	519	297	511	559	515				
22	518	343	02	670	452		857	568	116	551	300	556	558	567	699	573	880	595
23	545	213	05	707	317		904	473	159	678	331	630	584	581	724	607	901	623
24	552	198	04	713	337	02	909	496	163	667	332	612	582	612	721	591	900	594
25	539	226	09															
26	529	224	04	689	351													
27	522	272		679	375		871	533	129	563	314	517	577	525	720	559	904	567
28	526	332		680	433		869	511	128	549	312	555	571	547	714	552	897	543
29	533	260		691	381		883	536	137	600	319	541	580	524	725	512	911	528
30	548	219		709	318	01	906	483	161	659	344	527	609	462	757	462	948	467
31	519	338	02	672	438		R61	526	125	509	310	528	570	563	711	571	893	565

RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF JUNE 1951

DAY	SURFACE			1000 MBS			900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS					
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW														
01	9 6 5	0 0 1	6 0 3 4	5 2 8	0 5 6	5 0 3 5	0 2 8	1 0 1	5 0 6 7	0 2 4	1 4 8	5 0 9 7	0 2 0	2 5 0	5 1 4 9	0 1 5	3 6 5	1 9 4	0 1 0					
02	9 8 4	0 0 1	3 0 3 3	5 1 2	0 7 2	5 0 4 6	0 2 4	1 1 6	5 0 8 1	0 2 1	1 6 3	5 0 8 7	0 1 9	2 6 6	5 0 7 0	0 1 8	3 8 7	1 2 5	0 1 2					
03	9 9 0	0 0 1	0 0 3 4	5 0 7	0 7 7	5 0 1 4	0 3 6	1 2 2	5 0 3 5	0 3 1	1 7 0	5 0 5 1	L 2 9	2 7 5	5 0 8 3	0 2 4	3 9 3	1 3 8	0 1 6					
04	9 9 5	0 0 2	2 0 3 8	5 0 3	0 8 1	5 0 2 3	0 3 3	1 2 6	5 0 4 5	0 3 0	1 7 4	5 0 7 3	0 2 5	2 7 7	5 1 1 9	0 1 9	3 0 4	1 4 0	0 0 6					
05	0 0 0	0 0 2	0 0 3 0	5 0 1	0 8 4	5 0 5 9	0 2 2	1 2 9	5 0 9 8	0 1 8	1 7 5	5 1 2 8	0 1 5	2 7 6	5 2 0 2	0 0 7	3 8 8	2 7 6	0 0 2					
06	0 1 7	0 0 0	7 0 2 9	0 1 4	0 9 7	5 0 6 4	0 1 8	1 4 2	5 0 7 1	0 0 8	1 8 9	5 0 7 9	0 0 6	2 9 3	5 0 8 8	0 0 7	4 1 1	1 2 8	0 0 6					
07	9 9 3	0 0 5	2 0 5 1	5 0 5	0 8 1	0 0 3 9	0 5 2	1 2 7	5 0 2 2	0 4 7	1 7 6	5 0 1 4	0 3 5	2 8 2	5 0 4 5	0 1 0	3 8 3	2 5 4	0 0 6					
08	9 9 5	0 0 1	7 0 3 5	5 0 5	0 7 9	5 0 5 4	0 2 5	1 2 3	5 0 8 6	0 2 1	1 7 0	5 1 2 3	0 1 7	2 7 0	5 1 9 4	0 1 0	3 9 1	2 0 8						
09	0 0 1	0 0 0	3 0 2 8	0 0 1	0 8 4	5 0 7 0	0 1 9	1 2 9	5 1 0 4	0 1 3	1 7 5	5 1 4 0	0 1 1	2 7 6	5 1 4 7		3 9 1	1 2 5	0 1 2					
10	9 8 5	0 0 0	4 0 3 8	5 1 2	0 7 3	5 0 1 4	0 3 7	1 1 9	5 0 0 8	0 4 4	1 6 7	5 0 0 2	0 3 2	2 7 3	5 0 6 3	0 2 1	3 9 3	1 2 1	0 1 0					
11	0 0 3	0 0 2	4 0 3 1	5 0 3	0 8 7	5 0 4 5	0 2 4	1 3 2	5 0 1 7	0 1 9	1 8 1	5 0 1 5		2 8 6	5 0 6 1	0 1 6	4 0 6	1 2 1	0 1 0					
12	9 9 1	0 0 1	9 0 5 0	5 0 7	0 7 7	5 0 4 5	0 2 5	1 2 2	5 0 7 5	0 2 2	1 6 9	5 1 0 5	0 1 9	2 7 0	5 1 7 7	0 1 1	3 9 4	2 4 4	0 0 6					
13	9 8 1	0 0 1	4 0 3 5	5 1 5	0 6 9	5 0 2 9	0 3 2	1 1 4	5 0 5 2	0 2 1	1 6 2	5 0 7 9	0 2 3	2 6 5	5 1 2 5	0 1 6	3 8 1	2 0 3	0 0 9					
14	9 9 0	0 0 1	8 0 2 9	5 1 8	0 7 6	5 0 5 5	0 2 1	1 2 1	5 0 9 6	0 1 8	1 6 7	5 1 3 1	0 1 4	2 6 7	5 2 0 7	0 0 8	3 7 9	2 9 4	0 0 4					
15	9 7 9	0 0 2	8 0 3 3	5 1 7	0 6 8	5 0 2 7	0 2 8	1 1 3	5 0 5 8	0 2 5	1 6 0	5 0 8 2	0 2 2	2 6 3	5 1 4 9	0 1 3	3 8 0	1 6 4						
16	0 0 3	0 0 0	0 0 1 8	5 0 5	0 8 6	5 0 8 5	0 1 4	1 3 0	5 1 3 0	0 1 3	1 7 6	5 1 4 8	0 0 7	2 7 7	5 1 6 7		3 9 1	2 4 1						
17	0 0 5	0 0 3	5 0 4 7	5 0 5	0 8 9	5 0 1 1	0 4 6	1 3 5	5 0 0 1	0 5 1	1 8 4	5 0 0 5	0 4 9	2 9 0	5 0 7 7	0 2 9	2 0 9	5 0 1 5	0 1 5	0 9 6	0 1 7			
18	0 0 9	0 0 2	2 0 3 7	5 0 8	0 9 2	5 0 5 0	0 2 8	1 3 7	5 0 1 1	0 5 7	1 8 6	5 0 0 5		2 9 2	5 0 4 5		4 1 1	1 1 5	0 2 4					
19	9 9 4	0 0 4	2 0 5 0	5 0 4	0 8 2	5 0 5 6	0 2 8	1 2 8	5 0 2 9	0 5 6	1 7 7	5 0 0 8	0 4 5	2 8 3	5 0 7 3	0 3 9	4 0 2							
20	9 9 8	0 0 1	4 0 2 5	5 0 1	0 8 3	5 0 6 2	0 2 0	1 2 7	5 1 0 3	0 1 6	1 7 3	5 1 3 5	0 1 1	2 7 4	5 1 6 3		3 8 9	2 1 1						
21	0 0 2	0 0 2	2 0 3 0	5 0 2	0 8 6	5 0 5 1	0 2 4	1 3 1	5 0 8 2	0 2 0	1 7 8	5 0 7 9	0 1 8	2 8 1	5 1 0 4	0 1 1	3 9 8	1 6 9	0 0 5					
22	9 8 4	0 0 2	1 0 3 8	5 1 3	0 7 2	5 0 4 2	0 2 8	1 1 7	5 0 6 9	0 2 5	1 6 4	5 0 9 9	0 2 0	2 6 6	5 1 6 4	0 1 2	3 8 0	2 2 9	0 0 7					
23	9 7 8	5 0 1	6 0 2 7	5 1 7	0 6 6	5 0 6 9	0 2 0	1 1 0	5 1 0 2	0 1 8	1 5 7	5 1 3 6	0 1 4	2 5 7	5 2 1 6	0 0 7	3 6 8	3 0 5	0 0 4					
24	9 8 1	5 0 1	8 0 2 7	5 1 5	0 6 8	5 0 8 2	0 1 6	1 1 2	5 1 2 1	0 1 0	1 5 8	5 1 5 3	0 0 8	2 5 7	5 2 3 5	0 0 3	3 6 8	3 2 7	0 0 1					
25	9 8 3	5 0 0	8 0 2 8	5 1 3	0 7 0	5 0 7 1	0 2 0	1 1 4	5 1 1 0	0 1 6	1 6 1	5 1 3 9	0 1 2	2 6 1	5 2 0 9	0 0 7	3 7 3	2 7 6	0 0 4					
26	9 7 6	5 0 0	8 0 2 1	5 1 9	0 6 5	5 0 5 4	0 1 2	1 0 9	5 0 9 3	0 0 7	1 5 6	5 1 2 6		2 5 6	5 2 1 0	0 0 7	3 6 8	3 0 3	0 0 3					
27	9 9 9	0 0 0	2 0 2 6	5 0 0	0 8 3	5 0 7 4	0 1 9	1 2 7	5 1 1 0	0 1 5	1 7 3	5 1 4 0	0 1 3	2 7 5	5 1 2 0		3 9 2	1 9 6						
28	9 9 7	0 0 1	9 0 3 3	5 0 2	0 8 2	5 0 4 6	0 2 6	1 2 7	5 0 7 8	0 2 3	1 7 4	5 1 1 1	0 1 8	2 7 6	5 1 3 1	0 1 7	3 9 2	1 9 5	0 1 1					
29	9 9 4	0 0 1	6 0 3 8	5 0 4	0 8 9	5 0 2 2	0 5 0	1 3 5	5 0 6 1	0 5 6	1 8 4	5 0 0 0	0 4 8	2 9 0	5 0 5 3	0 3 5	4 1 0	1 0 6	0 2 3					
30	9 9 8	0 0 2	4 0 3 5	5 0 1	0 8 3	5 0 5 1	0 2 3	1 2 8	5 0 9 0	0 1 9	1 7 5	5 1 1 2	0 1 5	2 7 6	5 1 3 3	0 0 6	3 9 3	1 8 6						
DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS					
	HHH	TTT	WW	HHH	TTT	WW																		
01	4 9 9	2 8 3	0 4	6 5 6	3 9 3	0 1	8 4 6	5 1 7	1 1 1	4 8 2	3 0 0	4 8 9	5 6 5	5 0 1	7 1 0	5 3 2		8 9 4	5 4 2					
02	5 2 3	2 3 0	0 6	6 8 4	3 4 1	0 3	8 7 8	4 9 8	1 3 3	6 3 3	3 1 4	5 7 5	5 7 1	5 4 2	7 1 5	5 4 4								
03	5 2 9	2 1 8	0 9	6 9 0	3 4 6	0 3	8 8 4	5 0 9																
04	5 3 1	2 2 7	0 9	6 9 1	3 3 4	0 4	8 8 7	4 9 9																
05	5 1 7	3 5 0		6 7 1	4 3 4		8 6 2	4 8 4	1 2 4	5 4 5	3 0 7	5 6 2	5 6 2	5 7 2	7 0 1	6 1 3								
06	5 4 8	2 1 9		7 0 8	3 4 4		9 0 2	5 0 5	1 5 8	6 7 9	3 3 3	6 0 4	5 8 7	5 8 4	7 2 7	5 8 5		9 0 8	5 9 5					
07	5 3 7	2 3 0		6 9 7	3 6 9		8 8 9	5 1 7	1 4 7	5 3 9	3 3 2	5 4 9	5 9 0	5 7 6	7 3 0	5 7 0								
08	5 1 4	3 3 7	0 3	6 6 8	4 0 1	0 1	8 6 2	4 4 5	1 3 1	4 9 9	3 1 8	5 0 6	5 7 9	5 2 6	7 2 3	5 3 7								
09	5 2 3	2 9 2		6 8 0	3 9 5		8 7 0	5 2 9	1 3 0	5 2 1														
10	5 2 9	2 2 5	0 4	6 8 9	3 5 5	0 2	8 8 3	4 7 5	1 4 4	5 5 3	3 2 8	5 5 2		6 1 4	7 3 7	6 0 5	9 1 5	6 2 3						
11	5 4 3	2 0 5	0 7	7 0 6	3 0 7		9 0 4	4 5 7	1 6 3	5 7 5	3 4 6	5 7 5	5 9 8	6 1 4	7 3 7	6 0 5								
12	5 1 4	3 4 0	0 3	6 6 6	4 5 0	0 1	8 5 7	4 8 2	1 2 6	4 5 2	3 1 6	5 0 7	5 7 6	5 6 9	7 1 6	5 8 3		8 9 7	6 0 1					
14	5 0 7	3 9 4	0 1	6 5 6	5 0 3		8 4 1	5 5 5	1 0 0	5 1 9	2 8 7	5 2 5	5 4 7	5 4 0	6 9 1	5 4 4		8 7 4	5 5 2					
15	5 1 4	2 8 2		6 7 0	4 1 7		8 5 8	5 6 5	1 1 5	5 6 3	2 9 9	5 4 1	5 5 9	5 5 4	7 0 1	5 5 7								
16	5 2 2	3 3 8		6 7 5	4 0 8		8 6 5	5 4 6	1 2 2	5 4 0														
17	5 4 6	2 3 6	0 7	7 0 5	3 6 7	0 2	8 9 7	5 2 1	1 4 8	7 2 3	3 2 2	6 0 5	5 7 6	5 7 9	7 1 7	5 8 7								
18	5 4 9	2 0 3	0 8	7 1 0	3 2 3	0 5	9 0 6	4 8 5	1 6 0	6 8 8	3 3 2	6 5 2	5 8 0	6 1 9	7 1 8	6 0 5	8 9 8	6 0 9						
20																								

**RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF JULY 1951**

DAY	SURFACE			1000 MBS			900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS					
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW														
01	0 1 0	0 0 3	4 0 4	8	0 0 9	0 9 3	5 0 1	4	0 5 8	1 3 9	0 0 1	1 1 1	0 4 9	1 8 8	5 0 1	3	0 4 4	2 9 4	5 0 5	5 0 1 9	4 1 3	1 3 1	0 1 0	
02	9 9 5	0 0 4	9 0 5	2	5 0 5	0 8 1	0 0 4	4	0 5 7	1 2 7	0 0 3	6	0 5 8	1 7 6	0 0 2	1	0 5 6	2 8 3	5 0 3	2	0 4 0			
03	9 9 9	0 0 1	8 0 3	9	5 0 0	0 8 4	5 0 3	6	0 5 0	1 2 9	0 0 4	2	0 3 1	1 7 7	0 0 6	1	0 5 6	2 8 0	5 0 7	8	0 2 8	3 9 9	1 4 6	0 1 7
04	9 8 3	0 0 3	4 0 4	8	5 1 3	0 7 2	0 0 4	9	1 1 8	0 0 2	3	0 5 0	1 1 8	0 0 2	3	0 5 0	1 6 7	5 0 1	4	0 3 9	2 7 2	5 0 8	9	
05	0 0 0	0 0 0	3 0 2	2	0 0 1	0 8 4	5 0 6	7	0 2 1	1 2 8	0 1 1	8	0 1 8	1 7 4	0 1 4	9	5 1 4	9	0 1 2	2 7 4	5 2 1	4	0 0 3	
06	9 8 9	5 0 0	6 0 1	8	5 0 5	0 7 5	5 0 7	5	0 1 2	1 1 9	0 1 1	6	5 1 1	6	0 1 1	5	1 5 5	0 0 5	2 6 4	5 2 2	6	0 0 2	5 7 5	
07	0 0 1	5 0 1	0 0 2	5	2 5	0 0 1	0 8 4	5 0 8	1	0 1 8	1 2 8	0 1 9	5	1 1 9	1 7 5	0 1 5	5	1 5 0	0 1 0	2 7 4	5 2 1	8	0 0 2	
08	0 0 2	0 0 1	5 0 1	5 3 2	0 0 2	0 8 6	5 0 5	7	0 2 4	1 3 0	0 0 9	5	0 8 5	2 0 1	1 7 7	5 1 1	5	0 1 7	2 7 8	5 1 5	0 0 3	3 9 4	1 8 4	
09	9 8 6	5 0 0	6 0 2	4	5 1 1	0 7 3	5 0 7	1	0 1 9	1 1 7	0 1 6	6	5 1 1	5	0 1 6	6	5 1 4	6	0 1 0	2 6 3	5 2 2	4	0 0 5	
10	9 8 6	0 0 0	5 0 3	8	5 1 1	0 7 3	5 0 4	0	0 3 0	1 1 8	0 2 7	6	5 0 6	1 0 2	1 6 5	5 0 9	0 2 2	2 6 8	5 1 2	3	0 1 7	3 7 5	3 1 9	
11	0 0 4	0 0 1	9 0 4	2	0 0 4	0 8 9	5 0 1	7	0 4 2	1 3 5	0 0 4	6	5 0 5	3	0 5 3	8	5 0 0	0 4 7	2 6 8	5 1 2	3	0 1 7	3 8 4	
12	0 0 3	0 0 1	9 0 3	7	0 0 3	0 8 7	5 0 4	6	0 2 1	1 3 1	5 0 6	5	0 0 8	1 7 9	5 0 6	3	0 0 7	2 8 2	5 1 3	3	0 1 5	3 9 8	1 9 4	
13	0 0 1	0 0 0	4 0 2	9	0 0 1	0 8 5	5 0 4	0	0 2 9	1 3 0	5 0 7	1	0 7 1	2 4	1 7 7	5 1 0	4	0 1 9	2 7 9	5 1 6	5	0 1 3	3 9 5	
14	9 8 2	0 0 3	8 0 4	9	5 1 4	0 7 1	5 0 1	2	0 1 2	0 4 6	1 1 7	0	0 2 1	5 0 3	1 6 6	5 0 0	4	0 4 7	2 7 2	5 0 6	1	0 5 5	3 9 0	
15	9 9 1	5 0 0	6 0 0	2	1	5 0 7	0 7 6	5 0 7	6	0 1 7	1 2 0	5 1 2	0	1 4	1 6 6	5 1 6	2	0 1 1	2 6 5	5 2 3	1	0 0 5	3 7 6	
16	0 2 0	0 0 0	1 0 2	2	0 1 6	0 9 9	5 0 9	4	0 1 5	1 4 3	5 1 3	3	0 1 1	1 8 9	5 1 5	0	0 0 6	2 8 9	5 1 9	6	0 0 1	4 0 1		
17	9 7 7	0 0 4	3 0 5	3	5 1 6	0 6 7	5 0 3	4	0 3 4	0 5 4	1 1 3	0 0 5	5	0 5 0	1 6 2	5 0 1	0	0 4 3	2 6 8	5 0 7	1	0 2 7	3 8 6	
18	9 8 3	0 0 2	0 0 3	0	5 1 3	0 7 1	5 0 4	9	0 2 2	1 1 5	5 0 8	8	0 1 8	1 6 2	5 1 1	8	0 1 5	2 6 3	5 1 6	6	0 0 7	3 7 7		
19	9 9 1	0 0 0	5 0 3	2	5 0 7	0 7 7	5 0 5	7	0 2 5	1 2 1	5 0 8	6	0 2 1	1 6 8	5 1 1	7	0 1 5	2 6 3	5 1 6	6	0 0 9	3 8 3		
20	9 8 9	0 0 2	8 0 3	4	5 0 8	0 7 6	5 0 3	6	0 2 7	1 2 1	5 0 7	3	0 2 0	1 6 8	5 1 1	0	0 1 7	2 6 9	5 1 7	4	0 1 1	3 8 3		
21	0 0 3	0 0 1	8 0 3	7	0 0 3	0 8 7	5 0 3	7	0 2 8	1 3 2	5 0 6	0	2 6	1 7 9	5 0 9	2	0 2 2	2 8 2	5 1 1	8	0 1 9	3 9 9		
22	0 0 5	0 0 1	5 0 3	6	0 0 5	0 8 8	5 0 0	9	0 3 0	1 3 4	5 0 1	6	0 1 3	1 8 2	5 0 4	9	0 1 7	2 8 6	5 0 7	6	0 1 0	4 0 5		
23	9 9 2	0 0 3	0 0 3	9	5 0 6	0 7 9	5 0 2	5	0 2 5	0 3 4	1 2 4	5 0 3	6	0 5 3	1 7 2	5 0 5	1	0 3 2	2 7 6	5 0 8	1	0 2 7	3 9 4	
24	9 9 7	0 0 0	8 0 0	2	5 0 2	0 8 2	5 0 6	5	0 2 0	1 2 6	5 0 9	9	0 1 6	1 7 3	5 1 3	1	0 1 2	2 7 3	5 2 1	6	0 0 7	3 8 5		
25	9 9 8	5 0 2	0 0 2	8	5 0 1	0 8 2	5 0 7	0	0 2 1	1 2 6	5 1 0	2	0 1 8	1 7 3	5 1 2	2	0 1 6	2 7 5	5 1 5	5	0 1 4	3 9 0		
26	9 9 6	0 0 0	2 0 2	4	5 0 3	0 8 1	5 0 7	3	0 2 0	1 2 5	5 1 1	5	0 1 6	1 7 1	5 1 5	5	0 1 3	2 7 0	5 2 4	0	0 0 6	3 8 2		
27	0 0 6	5 0 1	8 0 1	5	0 0 5	0 8 8	5 1 0	5	0 1 1	1 3 1	5 1 4	7	0 0 9	1 7 7	5 1 9	3	0 0 8	2 7 6	5 1 7	9	0	0 0 5		
28	0 0 7	5 0 1	8 0 1	6	0 0 6	0 8 9	5 0 9	6	0 1 5	1 3 2	5 1 3	7	0 1 2	1 7 8	5 1 5	7	0 0 8	2 7 8	5 2 0	4	0 0 5	3 9 1		
29	0 1 8	4 0 0	3 0 2	8	0 1 5	0 9 8	5 0 7	2	0 2 2	1 4 2	5 1 0	0	1 8	1 8 9	5 1 0	0	0 1 9	2 9 1	5 1 4	5	0 1 5	4 0 6		
30	0 1 3	0 0 1	9 0 3	5	0 1 1	0 9 5	5 0 5	1	0 2 7	1 3 9	5 0 3	8	0 2 8	1 8 7	5 0 5	2	0 2 8	2 9 1	5 1 0	0	0 1 9	4 0 8		
31	0 0 1	0 0 1	2 0 3	6	0 0 1	0 8 5	5 0 5	4	0 2 6	1 3 0	5 0 8	3	0 2 2	1 7 7	5 0 9	4	0 1 8	2 7 9	5 1 1	2	0 1 2	3 9 5		

DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS			60 MILLIBARS		
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW			
01	5 5 0	2 1 9	0 7	7 1 0	3 2 7	0 4	9 0 6	4 7 4	1 6 3	6 2 4	3 4 1	6 1 3	5 9 4	5 8 9	7 3 4	5 9 2								
03	5 3 4	2 5 4	0 7	6 9 3	3 7 0	0 3	8 8 4	5 4 0	1 3 7	5 8 6	3 1 9	5 5 4												
05	5 1 4	3 5 5		6 6 5	4 6 4		8 5 3	5 2 0	1 1 6	5 0 9	3 0 5	5 1 5	5 6 8	5 1 1	7 1 1	5 4 9								
06	5 0 1	4 1 2	0 1	6 5 0	4 9 5		8 8 7	5 3 1	1 0 0	5 1 3	2 8 6	5 4 2	5 4 6	5 5 6	6 8 8	5 5 6	8 6 9	5 9 7						
07	5 1 4	-3 9 1	0 1	6 6 3	4 9 3		8 4 6	6 2 5	0 9 5	6 3 0	2 7 2	6 3 4												
08	5 2 8	2 8 8		6 8 4	4 0 3	0 1	8 7 4	5 4 9	1 2 3	7 2 4	2 9 2	6 9 1	5 3 4	6 8 5	6 6 7	6 9 1								
09	5 0 0	3 8 4		6 5 2	4 3 0		8 4 1	5 2 5	1 0 0	5 5 6	2 8 2	6 0 8	5 3 5	6 4 1	6 7 0	6 5 0	8 4 6	6 6 1						
10	5 1 6	3 1 5	0 4	6 7 1	4 0 2	0 1	8 6 2	5 1 8	1 1 8	5 8 9	2 9 9	5 8 5	5 5 2	6 3 3	6 8 8	6 3 5	8 6 4	6 4 3						
12	5 3 2	2 4 5	0 8	6 9 0	3 7 2	0 3	8 8 2	5 4 0	1 3 3	6 8 5	3 0 7	6 3 5	5 5 5	6 4 0	6 9 1	6 6 5	8 6 4	6 5 9						
13	5 3 1	2 5 5	0 7	6 8 9	3 8 5	0 2	8 7 9	5 5 5	1 2 9	6 6 2	3 0 3	6 5 6												
14	5 2 7	2 3 1	0 9	6 5 4	4 2 4		8 4 5	5 1 6	1 0 7	5 2 4														
15	5 0 3	3 8 9	0 1	6 6 8	4 7 3		8 6 6	6 0 6	1 1 3	6 1 8	2 9 1	6 0 9	5 5 5	5 9 9	6 9 4	5 8 3	8 7 4	6 0 3						
16	5 5 0	3 7 1		6 8 1	4 7 3		8 6 7	5 7 0	1 2 0	6 0 5	3 0 0	5 6 8												
17	5 2 1	2 5 1	0 6	6 7 9	3 6 1	0 3	8 7 2	4 7 9																
18	5 0 7	3 5 1	0 2	6 5 8	4 8 6		8 4 3</																	

RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF AUGUST 1951

DAY	SURFACE			1000. MBS.		900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS		
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	
01	9 8 9	0 0 2	1 0 2 8	5 0 6	0 7 6	5 0 3 6	0 1 8	1 2 1	5 0 8 0	0 1 6	1 6 7	5 1 2 4	0 1 4	2 6 6	5 1 9 0	0 0 9	3 8 2	2 3 9	0 0 2	
02	0 0 7	0 0 2	9 0 3 6	0 0 5	0 9 0	0 0 0 8	0 3 5	1 3 6	5 0 1 9	0 2 3	1 8 4	5 0 3 8	0 1 2	2 8 8	5 1 1 2	0 1 1	4 0 5	1 8 3	0 0 5	
03	0 0 2	0 0 4	4 0 4 2	0 0 2	0 8 7	0 0 1 5	0 4 5	1 3 3	0 0 0 7	0 4 6	1 8 2	5 0 1 5	0 4 2	2 8 7	5 0 7 8	0 2 9				
04	0 0 9	0 0 0	5 0 2 3	0 0 8	0 9 1	0 5 0 8 0	0 1 7	1 3 5	5 1 1 8	0 1 5	1 8 1	5 1 5 2	0 1 2	2 8 1	5 2 1 2	0 0 6	3 9 3	2 5 4		
05	0 2 6	0 0 1	9 0 3 6	0 2 1	1 0 5	5 0 2 3	0 2 5	1 5 1	5 0 1 9	0 2 5	1 9 9	5 0 5 5	0 2 3	5 0 3	5 0 7 7	0 1 3	4 2 1	1 5 9	0 1 2	
06	0 0 0	0 0 3	2 0 4 2	0 0 1	0 8 5	5 0 2 5	0 3 4	1 3 1	0 0 0 2	0 4 5	1 7 9	5 0 2 5	0 3 9	2 8 4	5 0 7 5	0 2 5	4 0 3	1 5 4	0 1 5	
07	9 8 8	0 0 3 1	1 3 9	5 0 9	0 7 5	5 0 3 3	0 2 7	1 2 0	5 0 7 0	0 2 3	1 6 7	5 1 1 3	0 1 8	2 6 5	5 1 7 6	0 0 9	3 9 3	1 9 1	0 0 7	
08	9 8 9	0 0 0 0	2 0 2 8	5 0 8	0 7 5	5 0 6 5	0 2 0	1 2 0	5 1 0 1	0 1 6	1 6 6	5 1 3 1	0 1 0	2 6 7	5 1 8 8	0 0 4	3 8 0	1 6 5	0 0 3	
09	0 0 0	5 0 0	5 0 1 7	0 0 1	0 8 3	5 0 8 3	0 1 5	1 2 8	5 0 7 7	0 1 9	1 7 5	5 0 9 4	0 1 9	2 7 8	5 1 0 2	0 2 2	3 9 5	1 6 5	0 1 5	
10	9 8 8	0 0 1 3	0 2 9	5 0 9	0 7 5	5 0 5 3	0 2 3	1 1 9	5 0 9 5	0 1 9	1 6 6	5 1 2 7	0 1 6	2 6 6	5 2 0 2	0 0 6	3 7 9	1 4 5	0 0 4	
11	9 8 2	0 0 1 2	0 2 9	5 0 6	0 7 8	5 0 5 8	0 2 2	1 2 2	5 0 9 1	0 2 0	1 6 9	5 1 1 8	0 1 6	2 7 0	5 1 9 0	0 1 0	3 8 3	1 6 1	0 0 5	
12	9 8 9	0 0 3 1	0 2 6	5 0 8	0 7 4	5 1 0 0	0 1 5	1 1 8	5 1 3 9	0 1 0	1 6 4	5 1 6 5	0 0 6	2 6 3	5 2 1 7	0 0 3	3 7 5	1 2 8	0 0 8	
13	0 0 0	5 0 2 6	0 2 6	0 0 1	0 8 3	5 1 0 0	0 1 7	1 2 7	5 1 1 6	0 1 6	1 7 3	5 1 2 8	0 1 4	2 7 4	5 1 9 2	0 0 8	3 8 7	2 3 4		
14	9 0 0	5 0 0 4	0 2 8	0 1 5	0 9 9	0 0 0 1	0 0 9	1 4 5	5 0 1 0		1 9 2	5 0 4 4		2 9 6	5 1 0 6		4 1 3	1 9 8	0 0 3	
15	0 1 6	0 0 5 0	0 3 6	0 1 3	0 9 8	5 0 3 1	0 2 9	1 4 3	5 0 4 9	0 2 8	1 9 1	5 0 9 1	0 2 3	2 9 6	5 0 3 7	0 1 0	4 1 5	1 3 0	0 0 7	
16	9 9 4	0 0 1 5	0 3 4	5 0 4	0 8 0	5 0 5 5	0 2 5	1 2 4	5 0 8 5	0 2 0	1 7 1	5 1 1 7	0 1 5	2 7 2	5 1 8 3	0 0 4	3 8 5	2 7 2		
17	9 9 1	5 0 4 2	0 2 5	5 0 7	0 7 5	5 1 0 1	0 0 8	1 1 9	5 1 3 9	0 0 6	1 6 5	5 1 7 8	0 0 7	2 6 3	5 2 5 5	0 0 3	3 7 3	2 9 2		
18	0 1 5	0 0 0 6	0 3 5	0 1 2	0 9 6	5 0 4 3	0 2 7	1 4 1	0 0 1 1	0 2 8	1 9 0	0 0 0 5	2 9 5	5 0 6 0		4 1 4	1 5 3			
19	0 0 3	0 0 0 3	0 2 5	0 0 3	0 8 6	5 0 7 1	0 1 9	1 3 1	5 1 0 6	0 1 7	1 7 7	5 1 4 1	0 1 4	2 7 7	5 1 7 4		3 9 2	2 4 5		
20	0 1 0	0 0 1 5	0 4 0	0 0 9	0 9 3	5 0 1 1	0 4 2	1 3 9	5 0 0 5	0 2 4	1 8 7	5 0 2 1		2 9 4	5 0 3 6		4 1 4	1 0 6		
21	9 9 6	0 0 3 5	0 4 2	5 0 3	0 8 2	5 0 0 5	0 3 8	1 2 8	0 0 0 0	0 4 4	1 7 6	5 0 2 5	0 3 6	2 8 3	5 0 1 7	0 1 1	4 0 4	0 9 6	0 1 4	
22	9 9 7	5 0 2 6	0 1 6	5 0 2	0 8 1	5 0 9 4	0 1 1	1 2 5	5 1 3 0	0 0 9	1 7 1	5 1 7 0	0 0 6	2 7 1	5 1 3 9		3 8 6	2 1 9		
23	9 9 0	0 0 3 1	0 4 3	5 0 8	0 7 7	5 0 2 4	0 3 5	1 2 2	5 0 2 3	0 3 7	1 7 0	5 0 3 5	0 3 6	2 7 5	5 0 7 1	0 2 9	3 9 3	1 5 5	0 1 3	
24	0 0 8	0 0 2 5	0 5 1	0 0 7	0 9 1	5 0 5 5	0 2 3	1 3 5	5 0 8 5	0 2 1	1 8 2	5 1 0 3	0 1 9	2 8 5	5 0 8 5	0 2 0	4 0 3	1 5 5	0 0 7	
25	9 9 8	0 0 0 4	0 2 2	5 0 1	0 8 2	5 0 7 4	0 1 8	1 2 6	5 1 1 4	0 1 6	1 7 3	5 1 4 6	0 1 3	2 7 3	5 1 8 0		3 8 7	2 2 1		
26	0 1 1	0 0 1 0	0 2 7	0 0 9	0 9 3	5 0 7 3	0 2 0	1 3 7	5 1 1 0	0 1 6	1 8 3	5 1 2 8	0 1 5	2 8 4	5 1 7 3	0 0 7	3 9 8	2 3 5	0 0 3	
27	0 1 2	0 0 0 4	0 3 1	0 1 0	0 9 3	5 0 7 0	0 2 3	1 3 8	5 0 9 8	0 1 9	1 8 5	5 0 7 9	0 1 9	2 8 8	5 1 2 2		4 0 4	1 8 5		
28	0 0 6	0 0 1 8	0 3 3	0 0 7	0 9 1	5 0 4 1	0 2 8	1 3 6	5 0 5 6	0 2 7	1 8 3	5 0 7 6	0 2 4	2 8 7	5 0 3 5	0 2 4	4 0 7	1 2 2	0 1 2	
29	9 8 7	0 0 2 4	0 4 1	5 1 0	0 7 4	5 0 1 9	0 3 4	1 1 9	5 0 3 5	0 3 3	1 6 7	5 0 5 0	0 3 2	2 7 2	5 0 8 5	0 2 6	3 9 0	1 4 4	0 1 6	
30	9 9 5	0 0 0 5	0 3 1	5 0 3	0 8 0	5 0 5 6	0 2 5	1 2 5	5 0 9 2	0 2 1	1 7 1	5 1 2 0	0 1 7	2 7 3	5 1 1 4	0 1 4	3 9 2	1 4 1	0 1 0	
31	9 9 2	0 0 0 2	0 3 5	5 0 6	0 7 8	5 0 4 0	0 2 8	1 2 3	5 0 6 0	0 2 6	1 7 0	5 0 7 3	0 2 5	2 7 5	5 0 6 0	0 3 1	3 9 5	0 9 7	0 2 6	

DAY	500. MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS			60 MILLIBARS		
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW			
01	5 1 3	3 2 2	0 5	6 6 7	3 9 6	8 5 6	5 2 8	1 3 3	6 8 3	3 0 6	6 4 7	5 5 3	6 4 2	6 8 9	6 3 4	8 6 6	6 3 0							
02	5 3 8	2 8 1	0 4	6 9 5	4 0 4	0 1	8 8 4	5 4 7	8 6 7	5 2 1	1 2 8	5 2 8	3 1 3	5 2 8	5 7 1	5 7 8	7 1 0	6 1 3						
04	5 2 4	3 1 2	0 5	6 7 8	4 3 3	8 6 7	5 2 1	1 2 8	5 2 8	3 0 5	5 2 8	5 7 1	5 7 8	7 1 0	6 1 3									
05	5 5 6	2 5 4	0 5	7 1 3	3 8 9	0 2	9 0 4	5 4 4	1 5 2	7 3 4	3 2 1	6 5 7	5 6 7	6 6 3	7 0 4	6 1 1	8 8 4	5 9 4						
07	5 1 7	2 6 3	0 5	6 7 4	4 0 3	0 2	8 5 0	5 3 1	1 1 3	5 2 6	2 9 7	5 5 7	5 5 2	5 9 1	6 9 1	6 0 8	8 6 9	6 2 0						
08	5 1 0	3 4 0		6 6 3	4 4 2		8 5 0	5 3 1	1 1 3	5 2 6	2 9 7	5 5 7	5 5 2	5 9 1	6 9 1	6 0 8	8 6 9	6 2 0						
09	5 2 9	2 5 9	0 7	6 8 7	3 7 9	0 2	8 7 9	5 2 5	1 3 4	5 9 9	3 1 6	5 5 0	5 7 0	6 0 8	7 1 0	5 7 0								
10	5 0 9	3 3 1	0 1	6 6 3	4 1 9		8 5 3	5 0 0	1 1 7	5 2 2	3 0 3	5 4 4	5 6 1	5 6 7	7 0 2	5 8 9								
11	5 1 2	3 6 1	0 2	6 6 4	4 4 2		8 5 2	5 5 0	1 0 8	5 5 0	2 9 1	5 6 1	5 4 9	5 7 6										
12	5 0 5	3 4 2		6 5 7	4 6 2		8 4 2	5 7 5	0 9 7	5 7 3	2 8 0	5 3 9	5 4 0	5 4 9	6 8 3	5 4 9								
13	5 1 8	3 3 4		6 7 2	4 4 9		8 5 8	5 7 9	1 1 0	6 0 4	2 9 0	5 9 2	5 4 6	5 8 1	5 9 7									
14	5 4 5	2 9 5	0 3	7 0 0	4 2 4	0 1	8 8 9	5 5 0	1 3 5	7 3 7	3 0 7	6 5 3	5 5 3	6 7 0	6 8 8	6 5 1	8 6 3	6 3 9						
15	5 5 1	2 3 9	0 4	7 1 0	3 6 5		9 0 2	5 4 4	1 4 9	7 4 0	3 1 7	7 0 2	5 5 9	6 8 3	6 9 2	6 8 3	8 6 4	6 9 1						
16	5 1 5	3 0 5		6 7 1	3 9 9		8 6 5	5 3 0	1 2 0	5 7 8	3 0 2	5 6 9	5 6 1	5 5 7	7 0 2	5 6 5								
17	5 0 2	3 6 0		6 5 4	4 4 0		8 4 4	5 1 3	1 0 7	5 4 1	2 9 3	4 8 2	5 5 7	5 0 3	7 0 2	5 1 6								
18	5 4 9	2 4 1	0 4	7 0 7	3 7 1	0 2	8 8 9	5 2 7	1 5 0															

**RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF SEPTEMBER 1951**

DAY	SURFACE			1000 MBARS			900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS		
	PPP	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW
01	004	502	801	8	004	046	5109	013	129	5144	012	175	5122	005	276	5177		390	254		
02	94	001	803	0	504	080	5055	024	124	5084	022	171	5117	017	272	5169	011	387	211	009	
03	91	000	402	5	507	077	5071	020	121	5108	016	167	5144	013	267	5227	006	378	301	002	
04	974	503	101	7	520	062	5093	012	106	5110	011	152	5165	008	251	5242	003	361	318		
05	989	501	102	6	508	075	5079	019	119	5110	017	165	5133	015	266	5161	013	381	215	009	
06	946	000	803	31	503	081	5060	022	125	5096	018	172	5116	016	274	5125	006	391	184	005	
07	989	002	903	8	508	076	5038	029	121	5067	026	168	5097	021	270	5132		386	196	007	
08	987	502	102	25	510	073	5075	018	117	5111	016	164	5146	013	263	5218	007	375	310	003	
09	992	505	901	15	506	075	5138	010	119	5173	009	163	5219	007	260	5301	003	368	338	002	
10	987	500	103	34	510	074	5056	027	119	5066	025	161	5092	021							
11	971	000	203	34	525	061	5052	029	105	5082	022	153	5089	022	255	5137	016	371	194	011	
12	942	505	301	0	505	076	5121	010	119	5155	010	165	5181	006	264	5211	003	377	257		
13	997	000	202	3	502	081	5066	017	126	5103	016	172	5144	013	272	5204	005	385	230		
14	987	000	803	34	510	074	5034	029	119	5066	025	166	5101	020	268	5174	011	381	264	006	
15	013	001	003	37	011	095	5007	038	141	5022	038	189	5048	033	293	5113	014	409	176	007	
16	998	003	804	46	501	084	0009	045	130	0005	047	178	5026	040	283	5103	024				
17	006	001	602	23	005	089	5071	019	133	5031	008	181	5051		285	5108		401	185		
18	985	003	903	36	512	073	5032	026	118	5028	015	166	5064	010	269	5135	006	385	195		
19	006	501	902	23	005	088	5097	017	132	5130	014	177	5164	011	278	5186	006	391	278	002	
20	004	000	602	26	004	087	5071	018	131	5079	009	178	5113		281	5146		396	224		
21	985	000	202	26	512	072	5057	022	117	5088	020	163	5132	014	263	5191	008	376	271	002	
22	006	000	102	25	005	089	5078	018	133	5103	018	179	5145	013	280	5145	005	395	231		
23	989	004	805	50	509	077	0034	054	123	0013	049	172	5007	045	278	5042	039				
24	003	002	002	26	003	087	5064	019	131	5151	016	177	5136	010	277	5222	005	388	274		
25	007	000	402	20	006	088	5083	015	133	5121	012	179	5162	009	279	5216		391	275		
26	005	001	202	28	005	088	5066	022	135	5098	018	179	5128	015	279	5182	009	394	234		
27	006	500	602	26	004	088	5084	019	133	5064	015	180	5071		283	5136		398	207	007	
28	997	001	903	38	502	082	5041	029	127	5051	028	175	5068	027	278	5132	018	393	220	006	
29	980	501	002	21	515	067	5087	016	111	5119	016	158	5113	015	259	5158		374	211		
30	977	501	702	23	518	065	5071	019	109	5109	016	156	5140	013	256	5207	008	366	300	003	

DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS			60 MILLIBARS			
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	
01	520	320		678	336		874	472	132	593			292	582											
02	519	311	04	673	425	01	R60	582	111	602			274	641	521	647									
03	505	378		656	476		R41	587	094	587			274	641											
04	488	395		638	470		R26	534	085	538			267	559											
05	515	285	05	670	392	02	R60	549	114	594			293	581											
06	524	304		678	442		R67	527	126	532			313	551	570	589	709	596	888	611					
07	518	298	04	674	411	01	R64	540	120	527			276	554											
08	501	404	01	650	510		R35	538	093	569			272	574	528	563	669	548							
09	495	391	01	645	471		R33	537	090	574			279	574	528	563	669	548							
11	504	284	06	661	397	02	R51	552	108	549			291	565	548	577									
12	507	348		659	461		R44	589	099	591			279	605	532	609	670	609	850	585					
13	517	313	03	671	413		R60	568	111	597			292	558											
14	512	328	03	666	389	01	R59	471	125	511			311	530	573	528	716	540	903	495					
15	543	280	02	700	383	02	R91	551	141	618			322	581	580	543	722	556							
17	535	274		692	366		R84	530	142	527			329	483	595	463	744	462	937	421					
18	519	277		670	480		R58	482	125	482			316	456	589	426	732	424	927	406					
19	519	372		670	480		R58	500	125	569			309	514	575	449									
20	528	310	01	683	371		R76	523	133	523			319	484											
21	507	312		662	412																				
22	526	291		681	409		R70	580	125	569															
24	517	359		669	453		R59	505	119	520			305	512											
25	520	355		672	437		R61	543	124	531			311	493	578	461									
26	525	337		677	445		R64	543	124	523															
27	531	284	04	688	389		R79	535	134	558			319	512											
28	526	275		683	364		R76	507	137	519			326	493	592	464	741	436							
29	505	325	01	658	444	01	R46	509	113	472			303	455	572	460	721	416							
30	495	399	01	644	516		R26	597	080	593			261	580											

RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF OCTOBER 1951

DAY	SURFACE			1000 MBS			900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS			
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW
01	9 8 4	5 0 3	8 0 1	6	5 1 2	0 7 0	5 1 0 3	0 1 2	1 1 4	5 1 4 6	0 1 1	1 6 0	5 1 8 1	0 1 0	2 5 9	5 2 2 4	0 0 4	3 7 0	2 8 8			
02	9 6 2	5 0 0	8 0 2	4	5 3 0	0 5 3	5 0 5 1	0 2 2	0 9 8	5 0 6 9	0 2 0	1 4 5	5 1 2 0	0 1 7	2 4 5	5 2 0 6	0 0 9	3 5 7	2 9 3	0 0 4		
03	9 6 7	5 0 0	4 0 2	5	5 2 6	0 5 7	5 0 5 9	0 2 1	1 0 2	5 1 0 4	0 1 7	1 4 8	5 1 3 5	0 1 3	2 4 6	5 2 0 6	0 0 6	3 6 0	3 0 4	0 0 3		
04	9 9 2	5 0 1	6 0 1	1 9	5 0 6	0 7 7	5 0 8 8	0 1 5	1 2 1	5 1 2 2	0 1 4	1 6 7	5 1 4 8	0 0 7	2 6 6	5 1 6 2	0 0 4	3 8 3	2 1 3			
05	9 7 6	0 0 2	1 0 3	3 3	5 1 9	0 6 5	5 0 3 2	0 2 7	1 1 0	5 0 7 1	0 2 3	1 5 7	5 1 0 9	0 1 9	2 5 9	5 1 5 5	0 0 6	3 7 4	2 0 7			
06	9 8 9	0 0 0	1 0 2	2 6	5 0 8	0 7 5	5 0 6 2	0 2 1	1 2 0	5 0 9 3	0 1 8	1 6 7	5 1 2 6	0 1 5	2 6 7	5 1 9 6	0 0 9	3 7 9	2 6 2	0 0 5		
07	9 9 0	0 0 0	5 0 2	2 3	5 0 7	0 7 6	5 0 6 5	0 1 9	1 2 0	5 0 9 3	0 1 7	1 6 7	5 1 1 7	0 1 7	2 6 8	5 1 9 0	0 1 0	3 8 1	2 7 3	0 0 5		
08	9 9 2	5 0 0	5 0 2	2 0	5 0 6	0 7 7	5 0 7 6	0 1 7	1 2 3	5 1 1 6	0 1 6	1 6 9	5 1 4 8	0 1 3	2 6 9	5 1 9 5	0 0 7	3 8 2	2 4 8			
09	9 9 6	5 0 2	5 0 1	2 1	5 0 5	0 8 0	5 0 9 0	0 1 1	1 2 4	5 1 3 1	0 0 9	1 6 9	5 1 6 6	0 0 9	2 6 8	5 2 0 8	0 0 5	3 7 8	3 3 2	0 0 1		
10	0 0 6	5 0 2	0 0 1	1 4	5 0 5	0 8 8	5 1 0 6	0 1 2	1 3 1	5 1 4 3	0 1 1	1 7 7	5 1 7 4	0 1 0	2 7 6	5 2 0 3	0 1 4	3 9 1	2 3 0			
11	9 8 1	0 0 0	8 0 3	5 5	5 1 5	0 6 9	5 0 4 9	0 2 5	1 1 4	5 0 6 4	0 2 4	1 6 1	5 0 9 0	0 2 1	2 6 3	5 1 4 5	0 1 4	3 7 8	2 1 1	0 0 9		
12	0 0 1	0 0 1	4 0 3	5 1	5 0 1	0 0 1	0 8 5	5 0 5 7	0 2 4	1 2 9	5 0 8 7	0 2 1	1 7 6	5 1 1 9	0 1 8	2 7 7	5 1 8 6	0 1 1	3 9 0	2 4 2	0 0 7	
13	9 8 5	0 0 1	1 0 2	2 3	5 1 3	0 7 1	5 0 5 4	0 1 8	1 1 5	5 0 9 5	0 1 7	1 6 1	5 1 2 9	0 1 5	2 6 2	5 2 1 0	0 0 8	3 7 4	3 0 1	0 0 4		
14	9 8 7	5 0 2	0 0 2	2 6	5 1 0	0 7 3	5 0 8 5	0 1 8	1 1 7	5 1 1 0	0 1 5	1 6 3	5 1 5 3	0 1 2	2 6 3	5 2 0 7	0 0 8	3 7 5	2 8 0	0 0 3		
15	0 1 0	5 0 1	1 0 1	1 9	5 0 9	0 9 1	5 0 9 5	0 1 5	1 3 5	5 1 3 0	0 1 1	1 8 1	5 1 7 2	0 0 9	2 8 1	5 1 7 7	0 2 2	3 9 5	2 2 6	0 0 5		
16	0 1 1	0 0 1	3 0 3	3 5	5 0 9	0 9 3	5 0 3 2	0 2 7	1 3 8	5 0 1 0	0 2 1	1 8 7	5 0 3 0	0 1 9	2 9 1	5 0 8 3	0 2 2	4 0 9	1 4 3	0 0 7		
17	9 8 8	0 0 2	2 0 4	4 2	5 0 8	0 7 7	5 0 1 2	0 3 6	1 2 3	5 0 2 5	0 3 5	1 7 1	5 0 5 0	0 3 2	2 7 5	5 0 8 1	0 2 6	3 9 2	1 7 1	0 1 2		
18	9 9 0	0 0 3	0 0 4	4 2	5 0 8	0 7 7	5 0 1 2	0 3 6	1 2 3	5 0 2 5	0 3 5	1 7 1	5 0 5 0	0 3 2	2 7 5	5 0 8 1	0 2 6	3 8 3	2 4 0	0 0 6		
19	9 9 0	5 0 0	5 0 2	2 2	5 0 7	0 7 6	5 0 8 5	0 1 5	1 2 0	5 1 2 0	0 1 4	1 6 6	5 1 4 9	0 1 3	2 6 7	5 1 3 7	0 0 7	3 8 5	2 4 0	0 0 8		
20	0 0 0	0 0 0	5 0 2	2 6	5 0 1	0 8 4	5 0 7 8	0 1 9	1 2 8	5 1 0 8	0 1 7	1 7 4	5 1 3 8	0 1 4	2 7 4	5 1 9 0	0 0 8	3 8 8	2 4 5			
21	9 9 8	0 0 0	4 0 2	2 1	5 0 1	0 8 2	5 0 6 5	0 1 5	1 2 7	5 1 0 2	0 1 6	1 7 3	5 1 2 9	0 0 9	2 7 3	5 2 1 4	0 0 6	3 8 7	2 4 6			
22	9 8 5	0 0 2	1 0 4	4 4	5 1 2	0 7 3	5 0 2 7	0 3 4	1 1 8	5 0 5 9	0 2 7	1 6 5	5 0 8 7	0 2 3	2 6 7	5 1 7 2	0 0 9	3 8 0	2 5 3			
23	0 0 1	0 0 2	0 0 2	2 9	5 0 1	0 8 5	5 0 3 7	0 2 1	1 3 0	5 0 7 3	0 1 5	1 7 7	5 0 9 1	0 0 6	2 7 9	5 1 7 6	0 0 4	3 9 3	2 5 3			
24	0 1 9	0 0 0	0 0 2	2 2	5 0 1	0 9 8	5 0 9 0	0 1 8	1 4 3	5 0 6 2	0 0 6	1 9 0	5 0 7 5	0 2 3	2 8 3	5 0 9 5	0 1 4	4 1 2	1 5 3	0 0 9		
25	0 1 0	0 0 1	8 0 3	3 5	5 0 9	0 9 5	5 0 3 8	0 3 0	1 3 7	5 0 6 0	0 2 0	1 8 5	5 0 6 2	0 0 9	2 8 9	5 1 0 4	0 0 7	4 0 5	1 5 7	0 1 3		
26	0 0 0	0 0 1	0 0 3	3 0	5 0 1	0 8 4	5 0 6 9	0 2 0	1 2 8	5 0 9 9	0 1 9	1 7 5	5 1 2 4	0 1 4	2 7 6	5 1 6 4	0 0 6	3 9 0	2 5 5	0 0 4		
27	9 8 4	0 0 2	2 0 4	4 0	5 1 3	0 7 2	5 0 2 2	0 3 3	1 1 7	5 0 5 1	0 2 8	1 6 5	5 0 8 0	0 2 3	2 6 7	5 1 4 0	0 1 5	3 8 3	2 4 0	0 0 8		
28	9 9 1	5 0 0	9 0	3 2	5 0 7	0 7 6	5 0 7 5	0 2 2	1 2 1	5 1 0 5	0 2 9	1 6 7	5 1 0 2	0 1 8	2 6 9	5 1 5 0	0 1 0	3 8 4	2 4 0	0 0 4		
29	0 1 7	5 0 0	3 0	2 3	5 0 4	0 9 7	5 0 1 9	1 4 3	5 0 2 9	5 0 4 9	0 2 0	1 9 1	5 0 3 7	0 2 9	2 9 5	5 0 8 2	0 1 6	4 1 5	0 9 8	0 1 2		
30	9 9 3	0 0 2	3 0	4 1	5 0 5	0 7 9	5 0 2 0	0 3 4	1 2 4	5 0 4 3	0 3 0	1 7 2	5 0 6 8	0 2 7	2 7 5	5 1 2 6	0 1 0	3 9 1	1 8 4	0 1 0		
31	9 9 4	0 0 2	0 0	3 3	5 0 4	0 8 0	5 0 5 2	0 2 4	1 2 4	5 0 8 4	0 2 0	1 7 1	5 1 1 6	0 1 7	2 7 2	5 1 9 1	0 0 9	3 8 5	2 5 7	0 0 3		
DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS			
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	
01	4 9 8	3 3 6		6 5 2	4 2 0		8 4 1	5 5 8	0 9 1	6 2 5	2 7 1	5 9 4							8 4 2	5 0 2		
02	4 8 4	3 9 8	0 1	6 3 5	4 8 1		8 2 1	5 5 4	0 7 6	6 1 1	2 5 5	5 9 0	5 1 3	5 6 1	6 5 6	5 4 4			8 7 0	4 7 9		
03	4 8 8	3 4 5	0 1	6 4 1	4 3 9		8 2 9	5 5 1	0 8 7	5 3 3	2 7 2	5 2 2	5 3 5	5 0 6	6 8 1	4 9 3						
04	5 1 5	2 9 1		6 7 1	3 7 4		8 6 5	5 1 4	1 2 0	5 7 3	3 0 1	5 7 3	5 5 9	5 2 4								
05	5 0 8	2 6 3		6 6 5	3 7 2		8 5 9	4 5 8	1 2 8	4 8 3	3 1 7	4 6 5	5 8 6	4 3 9	7 3 5	4 3 3	9 2 9	4 3 6				
06	5 1 0	3 4 6	0 1	6 5 2	4 6 9		8 4 8	5 3 2	1 1 2	4 6 7	3 0 2	4 4 9	5 7 5	4 2 3	7 2 7	3 8 0	9 2 4	3 7 7				
07	5 0 9	3 5 6	0 2	6 6 0	4 9 0		8 4 4	5 8 3	0 9 7	5 7 5	2 8 1	5 1 8	5 4 9	4 2 2	7 0 1	3 9 1						
08	5 1 3	3 2 1		6 6 7	4 2 2		8 5 6	5 4 7	1 0 9	6 0 1	2 8 9	5 7 2										
09	5 0 6	3 6 6		6 5 9	4 0 7		8 5 0	5 1 2	1 1 0	5 3 2	2 9 4	5 4 2	5 5 4	5 2 3	7 0 0	4 8 5	8 9 2	4 2 0				
10	5 2 2	3 0 2		6 7 8	4 2 6		8 6 6	5 6 1	1 2 2	5 9 0	3 0 3	5 6 7	5 6 4	4 9 9	7 1 0	4 5 4	9 0 2	4 2 6				
11	5 1 0	2 9 3	0 5	6 6 5	4 1 5	0 1	8 7 7	5 1 2	1 5 8	5 4 9	3 2 1	5 6 6	5 7 6	5 7 9								
12	5 2 1	3 2 2	0 3	6 7 5	4 3 4	0 1	8 6 4	5 4 9	1 1 8	5 9 1	2 9 8	5 8 8	5 5 6	5 2 3	7 0 2	4 8 1						
13	5 0 2	3 5 1	0 2	6 5 4	4 3 9	0 1	8 4 4	5 0 9	1 0 6	5 4 6	2 9 0	5 4 8	5 5 0	5 1 5								
14	5 0 3	3 7 8		6 5 4	4 9 0		8 3 7	5 7 9	0 9 3	5 5 6	2 7 6	5 6 8	5 3 6	5 1 3	6 8 2	4 8 7	8 7 2	4 4 3				
15	5 2 7	2 9 8	0 4	6 8 3	4 0 0	0 2	8 7 5	5 5 8	1 2 3	6 3 9	2 9 8	5 6 7	5 4 7	6 3 2	6 8 5	5 5 6	8 6 7	5 4 1				
16	5 4 5	2 3 0	0 6	7 0 5	5 3 9	0 2	9 0 0	4 9 3	1 5 3	6 9 0	3 2 3	7 0 9	5 6 5	6 8 6	6 9 8	8 7 3	6 4 6					
17	5 2 5	2 4 7		6 8 3	3 6 6		8 7 7	4 6 8	1 5 8													

**RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF NOVEMBER 1951**

DAY	SURFACE			1000 MBARS			900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS									
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW						
01	9 9 2	0 0 1	3 0 3 3	5 0 6	0 7 8	5 0 5 0	0 2 3	1 2 2	5 0 6 8	0 1 9	1 6 9	5 1 1 9	0 1 5	2 6 9	5 1 9 9	0 0 8	3 8 3	2 4 2	0 0 4									
02	0 0 7	5 0 0	3 0 2 4	0 0 6	0 8 9	5 0 8 5	0 1 9	1 3 3	5 1 1 8	0 1 6	1 7 9	5 1 1 2	0 1 1	2 8 1	5 1 6 1	3 9 7	1 8 0	0 0 6										
03	0 0 8	0 0 0	5 0 2 7	0 0 7	0 9 0	5 0 6 2	0 2 4	1 3 5	5 0 6 8	0 2 4	1 8 2	5 0 6 9	0 1 6	2 8 5	5 1 0 2	0 0 9	4 0 4	1 5 5	0 0 7									
04	9 6 5	0 0 2	8 0 4 4	5 2 8	0 5 7	0 0 6 9	0 6 5	1 0	0 0 3 8	0 5 7	1 5 3	0 0 0 6	0 4 8	2 5 9	5 0 6 0	0 3 4	3 7 9	1 2 7	0 2 1									
05	9 8 9	5 0 0	7 0 2 8	5 0 8	0 7 5	5 0 2 5	0 2 1	1 2 0	5 0 6 2	0 1 7	1 6 8	5 0 7 4	0 1 5	2 7 1	5 1 3 5	3 8 7	1 8 8											
06	9 9 6	0 0 1	3 0 2 7	5 0 3	0 8 1	5 0 6 8	0 2 1	1 2 5	5 0 9 4	0 1 9	1 7 1	5 1 1 3	0 1 7	2 7 3	5 1 5 8	0 1 0	3 8 8	2 0 3	0 0 4									
07	0 0 6	0 0 1	2 0 2 2	5 0 5	0 8 9	5 0 6 7	0 1 7	1 3 3	5 0 8 9	0 1 5	1 8 0	5 1 1 6	0 0 8	2 8 1	5 1 8 1	0 0 5	3 9 5	2 3 9	0 0 2									
08	0 1 1	0 0 0	2 0 1 7	0 0 9	0 9 2	5 0 8 2	0 1 6	1 3 6	5 1 1 6	0 1 2	1 8 3	5 0 9 9	0 0 7	2 8 5	5 1 2 2	4 0 2	1 6 2											
09	0 0 4	5 0 0	3 0 2 0	0 0 4	0 8 7	5 0 8 3	0 1 8	1 3 1	5 1 0 0	0 1 5	1 7 8	5 0 4 8	0 2 3	2 8 3	5 0 9 2	4 0 0	1 2 9	0 0 6										
10	9 9 9	0 0 1	7 0 2 9	5 0 0	0 8 3	5 0 6 1	0 2 3	1 2 8	5 0 6 8	0 2 3	1 7 5	5 0 7 7	0 2 4	2 7 9	5 1 1 4	0 1 9	3 9 6	1 7 5	0 1 3									
11	9 9 9	0 0 1	0 0 2 3	5 0 0	0 8 3	5 0 7 2	0 1 7	1 2 7	5 1 0 7	0 1 5	1 7 3	5 1 3 9	0 1 3	2 7 5	5 1 5 0	3 9 0	1 8 4	0 0 4										
12	9 7 3	0 0 1	8 0 3 6	5 2 2	0 6 3	5 0 2 9	0 3 1	1 0 8	5 0 5 2	0 2 8	1 5 6	5 0 4 2	0 3 3	2 6 1	5 0 2 6	3 8 1	0 9 4											
13	9 8 3	0 0 2	0 0 2 8	5 1 3	0 7 1	5 0 4 8	0 2 3	1 1 5	5 0 8 4	0 2 1	1 6 2	5 1 1 7	0 1 6	2 6 4	5 1 1 8	0 0 8	3 8 0	1 6 8										
14	9 8 1	0 0 1	4 0 3 4	5 1 5	0 6 9	5 0 4 3	0 2 7	1 1 4	5 0 7 9	0 2 3	1 6 1	5 1 0 9	0 1 9	2 6 2	5 1 7 9	0 1 0	3 7 5	2 6 9	0 0 4									
15	9 9 7	0 0 1	8 0 2 7	5 0 2	0 8 2	5 0 5 4	0 2 1	1 2 7	5 0 9 2	0 1 7	1 7 3	5 1 1 8	0 1 4	2 7 4	5 1 9 3	0 0 7	3 8 7	2 5 7	0 0 3									
16	9 7 7	0 0 2	2 0 2 6	5 0 2	0 8 2	5 0 6 3	0 2 1	1 2 7	5 0 7 3	0 2 2	1 7 4	5 0 8 7	0 2 1	2 7 7	5 1 3 0	0 0 5	3 9 3	1 6 6	0 0 9									
17	9 7 9	0 0 2	4 0 3 4	5 1 7	0 6 8	5 0 2 8	0 2 6	1 1 3	5 0 6 2	0 2 1	1 6 0	5 0 9 9	0 1 8	2 6 2	5 1 7 2	0 1 2	3 7 6	2 3 8	0 0 3									
18	9 7 8	0 0 1	3 0 3 0	5 1 7	0 6 7	5 0 2 3	0 2 6	1 1 2	5 0 6 0	0 2 1	1 5 9	5 1 0 0	0 1 7	2 6 1	5 1 7 8	0 0 8	3 7 5	2 3 9	0 0 6									
19	9 9 9	0 0 1	3 0 2 9	5 0 0	0 8 3	5 0 5 0	0 1 5	1 2 8	5 0 8 2	0 1 5	1 7 5	5 1 1 6	0 1 3	2 7 7	5 1 4 6	0 0 8	3 9 3	1 3 2										
20	9 9 2	0 0 0	5 0 2 9	5 0 6	0 7 8	5 0 5 6	0 2 7	1 2 3	5 0 5 6	0 1 9	1 7 0	5 0 7 7	0 1 3	2 7 3	5 1 5 1	0 0 5	3 8 8	2 0 9	0 0 5									
21	9 9 3	0 0 2	3 0 4 1	5 0 5	0 7 9	5 0 5 0	0 3 1	1 2 5	5 0 4 9	0 2 9	1 7 2	5 0 5 9	0 2 6	2 7 7	5 0 7 6	0 2 7	3 9 5	1 4 5	0 1 6									
22	9 8 1	0 0 3	9 0 4 1	5 1 5	0 6 9	5 0 2 2	0 3 1	1 1 4	5 0 3 9	0 3 2	1 6 2	5 0 6 2	0 2 9	2 6 6	5 0 8 7	0 2 3	3 8 4	1 7 1	0 1 1									
23	9 7 6	0 0 2	3 0 3 1	5 1 9	0 6 5	5 0 4 2	0 2 5	1 1 0	5 0 8 0	0 2 0	1 5 7	5 1 1 6	0 1 5	2 5 8	5 1 7 0	0 0 9	3 7 3	2 0 9										
24	9 7 7	0 0 2	9 0 3 2	5 1 8	0 6 6	5 0 2 9	0 2 6	1 1 1	5 0 6 8	0 2 0	1 5 8	5 1 0 0	0 1 6	2 6 0	5 1 7 1	0 1 1	3 7 4	2 4 9	0 0 5									
25	9 8 4	0 0 2	4 0 2 8	5 1 3	0 7 2	5 0 4 7	0 2 2	1 1 7	5 0 6 3	0 1 1	1 6 4	5 0 9 5	0 0 7	2 6 5	5 1 5 3	0 0 5	3 8 0	2 1 7										
26	9 9 2	0 0 1	0 0 3 5	5 0 6	0 7 8	5 0 4 5	0 2 5	1 2 3	5 0 1 8	0 2 3	1 7 1	5 0 5 2	0 1 5	2 7 5	5 1 1 2	3 9 3	1 2 3											
27	9 9 0	0 0 3	3 0 3 3	5 0 8	0 7 7	5 0 3 5	0 2 7	1 2 2	5 0 3 5	0 2 6	1 7 0	5 0 4 7	0 2 7	2 7 5	5 0 7 2	0 2 9	3 9 3	1 4 7	0 0 5									
28	9 7 6	0 0 4	2 0 4 5	5 1 9	0 6 6	0 0 3 7	0 4 8	1 1 3	5 0 9 1	0 7 9	1 6 3	5 0 6 2	0 6 6	2 7 1	5 0 1 1	0 3 9	3 9 3	0 6 6	0 1 9									
29	9 7 2	0 0 4	0 0 3 8	5 2 3	0 6 2	5 0 1 1	0 3 1	1 0 8	5 0 4 4	0 2 8	1 5 5	5 0 7 3	0 2 4	2 5 8	5 1 3 8	0 1 7												
30	9 6 7	0 0 3	1 0 3 7	5 2 7	0 5 8	0 0 0 0	0 3 4	1 0 4	5 0 5 2	0 3 1	1 5 2	5 0 6 5	0 2 6	2 5 5	5 1 2 5	0 1 9	3 7 1	1 6 5	0 0 4									
DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS			60 MILLIBARS						
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW																
01	5 1 3	3 3 1	0 2	6 6 7	4 2 6	0 1	8 5 7	5 1 2	1 2 0	5 0 4	3 0 9	4 4 7	6 0 3	4 5 9	7 5 2	4 4 2												
02	5 3 1	2 5 5	0 4	6 9 0	3 5 5	0 2	8 8 4	5 0 4	1 4 6	5 0 7	3 3 4	4 7 9	6 0 3	4 5 9	7 5 2	4 4 2	9 4 2	4 5 9										
03	5 4 1	1 9 5	1 1	7 0 4	2 8 8	0 6	9 0 2	4 5 8	1 6 2	6 1 2	3 4 6	5 0 7	6 1 1	4 7 5	7 5 1	4 6 9		9 5 4	4 2 8									
04	5 1 6	2 0 4	1 2	6 7 7	3 2 1	0 3	8 7 5	4 6 6	1 4 6	4 2 9	3 3 9	4 4 3	6 1 1	4 4 3	7 6 0	4 3 3												
05	5 2 1	2 7 1		6 7 9	3 6 2	0 1	8 7 2	5 1 3	1 3 3	4 6 6	3 2 3	4 6 6	5 9 2	4 7 5	7 3 9	4 7 6												
06	5 2 1	2 9 5	0 2	6 7 6	4 2 7		8 6 4	5 2 7	1 4 3	4 4 5	3 2 5	4 2 3	5 9 7	4 2 6	7 4 9	3 9 6	9 4 4	3 8 5										
07	5 2 6	3 0 8		6 8 1	4 0 3		8 7 2	4 6 4	1 4 3	4 0 4	3 4 0	4 0 0	6 1 7	3 6 3														
08	5 3 8	1 9 6	0 4	7 0 0	2 9 6		9 0 1	4 2 5	1 6 2	6 4 2	3 4 5	4 9 0	6 1 5	4 2 0	7 6 7	3 8 9												
09	5 3 8	2 0 0	0 4	6 9 9	3 0 6	0 5	8 9 8	4 6 1	1 5 8	5 0 3	3 4 6	4 9 6	6 1 2	4 6 9	7 5 5	4 7 0												
10	5 3 1	2 2 8	0 8	6 9 1	3 5 2	0 4	8 8 8	4 5 7	1 5 4	4 5 1	3 4 5	4 5 9	6 1 4	4 6 0														
11	5 2 4	2 5 7		6 8 3	3 5 1		8 7 9	4 4 0	1 4 9	4 4 7	3 4 2	4 3 9	6 1 3	4 4 0	7 6 2	4 3 2	9 5 7	4 1 3										
12	5 1 9	1 9 6		6 8 1	3 2 6		8 7 8	4 2 6	1 5 0	4 2 3	3 4 4	4 5 2	6 1 4	4 5 6	7 6 3	4 5 2	9 5 5	4 5 4										
13	5 1 4	2 7 0		6 7 3	3 4 3	0 3	8 7 2	4 1 7			8 5 2	4 0 6	1 3 1	3 8 3	3 2 7	4 0 8	6 0 3	4 1 4	7 5 4	4 1 6	9 4 8	4 0 5						
14	5 0 5	3 3 7	0 2	6 5 8	4 2 7	0 1	8 6 1	4 6 0	1 3 2	4 2 5	3 2 5	4 4 3	5 9 9	4 3 6	7 4 9	4 2 2												
15	5 1 7	3 4 6	0 2	6 7 0	4 4 0		8 6 5	4 7 2	1 4 7	5 0 7	3 3 6	4 7 3	6 0 5	4 6 9</														

**RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF DECEMBER 1951**

DAY	SURFACE			1000. MBS.			900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS		
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT
01	9 7 9	0 0 2	6 0 3	6	5 1 7	0 6 8	5 0 3 4	0 2 7	1 1 3	5 0 6 5	0 2 4	1 6 0	5 1 0 0	0 1 9	2 6 2	5 1 6 7	0 1 3	3 7 6	2 2 6	0 0 7	
02	9 8 9	0 0 2	7 0 4	0	5 0 6	0 7 6	5 0 3 5	0 2 9	1 2 1	5 0 6 4	0 2 6	1 6 8	5 0 8 1	0 2 3	2 7 1	5 1 3 6	0 1 6	3 8 6	2 1 2	0 0 7	
03	0 0 0	0 0 1	9 0 3	0	0 0 1	0 8 4	5 0 4 9	0 2 5	1 3 0	5 0 1 6	0 3 5	1 7 8	5 0 3 1	0 3 2	2 8 3	5 0 7 1	0 2 5	4 0 1	1 3 2	0 1 7	
04	9 9 3	0 0 3	8 0 3	8	5 0 5	0 7 9	5 0 0 3	0 2 0	1 2 5	5 0 4 1	0 2 2	1 7 2	5 0 7 5	0 1 8	2 7 5	5 1 2 5	0 1 6	3 9 1	2 0 3	0 0 9	
05	9 8 8	0 0 3	7 0 4	0	5 0 9	0 7 5	5 0 3 2	0 3 0	1 2 0	5 0 5 7	0 2 7	1 6 9	5 0 9 0	0 2 3	2 7 0	5 1 6 2	0 1 3	3 8 4	2 5 2	0 0 5	
06	0 0 3	0 0 3	2 0 3	3	0 0 3	0 8 7	5 0 4 8	0 2 1	1 3 2	5 0 8 5	0 1 7	1 7 9	5 0 8 7	0 1 2	2 8 1	5 1 2 3	0 1 3	3 9 7	1 9 5		
07	0 1 0	0 0 2	2 0 2	8	0 0 9	0 9 2	5 0 6 1	0 1 7	1 3 7	5 0 9 0	0 1 5	1 8 4	5 0 8 0	0 0 6	2 8 7	5 1 3 4	0 0 7	4 0 3	1 9 6		
08	9 9 9	R	0 0 1	6 0 5	8	5 0 1	0 8 3	5 0 4 2	0 3 0	1 2 8	5 0 2 4	0 3 6	1 7 6	5 0 2 4	0 3 8	2 8 1	5 0 8 8	0 2 1	3 9 9	1 4 4	0 1 4
09	9 8 7	0 0 1	8 0 3	5	5 1 0	0 7 4	5 0 4 9	0 2 4	1 1 9	5 0 8 5	0 2 2	1 6 6	5 0 8 6	0 1 6	2 6 8	5 1 4 4		3 8 4	1 9 0	0 0 4	
10	9 9 4	0 0 2	5 0 4	0	5 0 4	0 8 0	5 0 2 0	0 3 4	1 2 5	5 0 4 0	0 5 1	1 7 3	5 0 7 0	0 2 8	2 7 6	5 1 2 8	0 1 6	3 9 2	1 9 5	0 1 0	
11	9 8 3	0 0 2	7 0 4	2	5 1 3	0 7 1	5 0 2 7	0 3 2	1 1 6	5 0 5 2	0 2 8	1 6 4	5 0 7 4	0 2 5	2 6 7	5 1 3 7	0 1 6	3 8 2	2 3 3	0 0 6	
12	9 8 4	0 0 2	9 0 3	1	5 1 3	0 7 2	5 0 3 9	0 2 7	1 1 7	5 0 7 2	0 2 2	1 6 4	5 1 0 0	0 1 8	2 6 5	5 1 7 9	0 0 8	3 7 8	2 6 9	0 0 4	
13	9 8 4	0 0 2	0 0 2	9	5 0 4	0 7 9	5 0 6 0	0 2 1	1 2 4	5 1 0 2	0 1 4	1 7 0	5 1 2 6	0 1 4	2 7 1	5 1 9 7	0 0 6	3 8 3	2 7 4	0 0 3	
14	9 0 7	0 0 2	7 0 2	4	0 0 5	0 9 0	5 0 5 4	0 2 0	1 3 5	5 0 7 0	0 1 1	1 8 2	5 0 7 2	0 0 6	2 8 7	5 1 3 4	0 0 7	4 0 3	1 9 6		
15	9 9 4	0 0 3	7 0 4	6	5 0 4	0 8 1	5 0 1 5	0 0 1 5	1 4 2	5 1 2 7	0 1 8	1 7 5	5 0 3 7	0 3 5	2 8 1	5 0 3 4	0 1 2	4 0 1	1 0 9		
16	9 8 0	0 0 3	2 0 4	6	5 1 6	0 6 9	5 0 0 2	0 4 1	1 1 5	5 0 0 0	0 0 0	1 6 3	5 0 1 0	0 2 1	2 6 9	5 0 7 1	0 0 9	3 8 8	1 5 7	0 1 0	
17	9 5 5	0 0 1	6 0 4	0	5 3 7	0 4 8	5 0 1 3	0 3 6	0 9 3	5 0 4 2	0 3 1	1 4 1	5 0 6 9	0 2 7	2 4 4	5 1 4 5	0 1 5	3 6 1	1 9 3	0 1 1	
18	9 7 1	0 0 2	9 0 4	2	5 2 3	0 6 1	5 0 2 0	0 3 4	1 0 7	5 0 4 3	0 3 0	1 5 4	5 0 5 4	0 2 8	2 5 8	5 0 8 7	0 1 9	3 7 6	1 5 3	0 0 9	
19	9 7 9	0 0 2	6 0 3	0	5 1 7	0 6 8	5 0 1 3	0 2 8	1 1 3	5 0 2 9	0 3 2	1 6 1	5 0 3 9	0 3 1	2 6 5	5 0 7 6	0 2 1	3 8 4	1 3 4		
20	9 7 8	0 0 0	4 0 3	3	5 1 7	0 6 7	5 0 4 4	0 2 4	1 1 2	5 0 7 4	0 1 9	1 5 9	5 1 1 3	0 1 5	2 6 1	5 1 4 9	0 1 3	3 7 6	2 1 5	0 0 9	
21	9 9 9	0 0 2	7 0 3	5	5 0 0	0 8 4	5 0 5 3	0 2 3	1 2 9	5 0 8 3	0 1 9	1 7 6	5 0 6 8	0 1 4	2 7 9	5 1 0 1	0 1 0	3 8 5	1 8 6	0 0 4	
22	9 8 7	0 0 2	4 0 3	6	5 1 0	0 7 4	5 0 4 0	0 2 7	1 1 9	5 0 7 7	0 2 3	1 6 6	5 0 9 2	0 2 2	2 6 9	5 1 4 4	0 1 0	3 8 5	2 4 4	0 0 6	
23	9 9 1	0 0 2	8 0 3	2	5 0 7	0 7 7	5 0 4 4	0 2 4	1 2 2	5 0 7 0	0 2 1	1 6 9	5 1 0 7	0 1 7	2 7 1	5 1 7 3	0 1 2	3 8 5	2 5 8	0 0 4	
24	9 9 0	0 0 0	9 0 3	7	5 0 7	0 7 6	5 0 3 7	0 2 9	1 2 1	5 0 6 6	0 2 3	1 6 8	5 1 0 4	0 1 8	2 7 0	5 1 7 9	0 1 0	3 8 3	2 5 9	0 0 4	
25	0 0 3	0 0 3	8 0 3	0	0 0 3	0 8 7	5 0 5 0	0 2 1	1 3 1	5 0 6 8	0 2 0	1 7 9	5 0 6 2	0 1 3	2 8 3	5 0 9 0	0 0 8	4 0 1	1 5 3		
26	9 9 1	0 0 4	5 0 4	2	5 0 7	0 7 8	5 0 1 5	0 3 4	1 2 4	5 0 4 4	0 3 0	1 7 1	5 0 7 6	0 2 5	2 7 4	5 1 4 9	0 1 5	3 8 8	2 2 5	0 0 6	
27	9 9 4	0 0 2	8 0 4	1	5 0 4	0 8 0	5 0 3 1	0 3 0	1 2 5	5 0 6 1	0 2 8	1 7 2	5 0 8 9	0 2 1	2 7 5	5 1 5 2	0 1 1	3 8 9	2 3 0	0 0 5	
28	9 9 8	0 0 2	4 0 3	5	5 0 1	0 8 5	5 0 2 8	0 2 7	1 2 8	5 0 6 0	0 2 3	1 7 5	5 0 7 1	0 2 3	2 7 9	5 1 1 9	0 1 7	3 9 5	1 8 5	0 0 8	
29	9 8 7	0 0 2	7 0 3	6	5 1 0	0 7 4	5 0 4 5	0 2 5	1 1 9	5 0 7 9	0 2 0	1 6 6	5 1 0 6	0 1 7	2 6 8	5 1 7 4	0 0 7	3 8 1	2 4 6	0 0 6	
30	9 9 8	0 0 2	4 0 3	4	5 0 1	0 8 3	5 0 5 0	0 2 3	1 2 8	5 0 7 8	0 1 8	1 7 5	5 1 1 9	0 1 5	2 7 5	5 1 5 4	0 0 9	3 9 1	1 8 7		
31	9 9 5	0 0 3	6 0 3	7	5 0 4	0 8 1	5 0 3 2	0 3 0	1 2 6	5 0 6 4	0 2 4	1 7 3	5 0 9 4	0 2 1	2 7 5	5 1 6 3	0 1 1	3 8 9	2 3 3	0 0 4	

DAY	500. MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS			60 MILLIBARS		
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW			
01	5 0 8	3 1 4	0 2	6 6 2	4 4 9		8 5 4	4 5 4		1 2 4	4 6 2		3 1 5	4 3 3	5 8 9	4 0 2	7 4 1	3 8 9	9 3 7	3 9 5				
02	5 1 8	3 1 2	0 4	6 7 4	4 0 2	0 1	8 6 7	4 6 0		1 3 4	4 8 4		3 2 3	4 5 2	5 9 5	4 3 7	7 4 5	3 9 7						
03	5 3 8	2 2 5	0 5	6 9 8	3 3 7	0 2							8 5 3	4 9 5	1 1 9	4 5 0								
04	5 2 5	2 7 6	0 3	6 8 2	3 6 2								8 7 5	5 3 5	1 3 9	4 8 8	3 2 9	4 7 3	6 0 0	4 0 9	7 5 1	4 0 9		
05	5 1 4	5 5 3	0 1	6 6 5	4 8 5								8 8 8	4 8 1	1 4 9	5 0 9	3 3 6	5 1 5	6 0 2	4 6 9	7 5 0	4 5 4		
06	5 3 0	2 8 6		6 8 5	4 0 9								8 8 6	5 3 3	1 4 9	5 0 6	3 3 8	4 8 2	6 0 8	4 4 2	7 5 1	4 2 8		
07	5 3 6	2 8 5		6 9 3	3 4 7								8 8 8	5 3 0	1 2 7	4 7 6	3 1 8	4 5 8	5 8 8	4 5 9	7 3 7	4 7 7		
08	5 3 4	2 4 5	0 7	6 9 3	3 6 0	0 3							8 8 5	4 9 4	1 2 6	4 4 0	3 1 3	4 6 2	5 8 5	4 0 1	7 3 9	3 7 2		
09	5 1 7	2 9 0	0 4	6 7 3	3 8 8	0 2							8 8 6	5 1 6	1 4 2	4 4 7	3 3 8	5 0 2	6 0 4	4 6 4	7 4 6	4 5 2		
10	5 2 6	2 8 3	0 5	6 8 2	3 8 5	0 2							8 8 5	5 1 6	1 2 7	4 7 6	3 2 9	4 4 5	6 0 1	4 8 3	7 5 9	4 4 2		
11	5 1 3	3 2 4	0 2	6 6 7	4 2 4								8 8 4	4 9 4	1 2 6	4 3 8	3 2 0	4 6 2	5 8 5	4 0 1	7 3 9	3 7 5		
12	5 0 7	3 6 6	0 2	6 5 7	4 8 8								8 8 5	4 9 4	1 1 5	4 4 0	3 1 3	4 6 2	5 8 5	4 0 1	7 3 9	3 7 2		
13	5 1 3	3 3 9		6 6 5	4 5 6								8 8 7	4 9 2	1 5 0	4 9 2	3 3 8	4 8 9	6 0 7	4 5 5	7 5 6	4 5 7		
14	5 4 0	2 2 4	0 8	7 0 0	3 4 9	0 3							8 8 7	4 9 2	1 5 0	4 9 2	3 2 7	4 3 8	6 0 0	4 5 2	7 4 3	4 0 8		
15	5 3 9	1 9 5	0 4	7 0 1																				

RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND 1951
TROPOPAUSE

JANUARY				TYPE	FEBRUARY				TYPE	MARCH				TYPE	APRIL				TYPE	
DAY	HHHH	PPP	TTT		DAY	HHHH	PPP	TTT		DAY	HHHH	PPP	TTT		DAY	HHHH	PPP	TTT		
01	9 9 9	2 5 0	5 7 0	I	01	9 5 2	2 7 0	5 5 8	I	01	8 9 3	3 0 0	4 5 9	I	01	1 0 8	2 2 4	6 1 4	I	
02					02	1 0 8	2 2 6	5 6 9	I	02	1 0 4	2 4 2	5 0 0	I	02	1 0 8	2 2 4	6 1 4	I	
03	1 0 7	1	2 3 5	5 6 4	I	03	7 0 3	3 8 3	4 0 0	I	03	8 4 0	3 2 6	4 6 4	I	03	8 0 0	3 2 8	4 5 4	I
04					04	8 2 9	3 2 2	4 8 3	I	04	1 1 3	2 2 0	5 5 8	I	04	1 0 4	2 3 7	6 1 5	I	
05					06					05	9 6 8	4 7 5	4 7 5	I	05	1 1 2	2 1 2	5 2 4	I	
06	8 1 8	3 2 7	4 7 4	I	09	1 1 6	2 0 6	4 2 9	I	06	8 1 0	3 3 7	4 5 3	I	06					
07	9 2 8	2 8 3	5 2 5	I	10	1 1 2	2 2 5	5 5 0	I	07	8 6 6	3 0 0	5 0 3	I	07	1 0 3	2 4 4	6 1 5	I	
08	9 6 5	2 6 8	5 0 4	I	11	7 3 0	3 7 0	4 2 2	I	08	1 2 3	4 8 4	6 2 5	I	08	1 1 5	2 0 8	5 5 4	I	
09	1 1 5	2 1 0	6 0 2	I	12	7 4 7	3 5 3	5 0 2	I	09	1 1 2	2 1 6	6 0 6	I	09	1 0 4	2 3 9	5 7 9	I	
10	1 0 5	2	4 5	I	13	8 2 2	3 1 5	5 5 6	I	10	1 1 2	2 1 4	5 8 8	I	10					
11					14	9 8 6	2 5 6	5 6 4	I	11	8 8 3	3 0 0	4 5 8	I	11					
12	1 0 1	2 5 0	5 6 0	I	15					12	9 9 1	2 5 7	5 0 6	I	12	7 1 4	3 7 2	5 0 7	I	
13	8 2 4	3 1 9	4 9 1	I	16	8 5 3	2 9 7	5 6 0	I	13	1 0 6	2 3 3	5 6 4	I	13	8 6 7	3 0 0	6 1 4	I	
14	8 6 4	3 0 0	5 1 6	I	17	7 6 2	3 4 2	4 8 8	I	14	8 6 7	2 4 5	4 6 1	I	15	1 0 1	2 5 0	6 0 8	I	
15	7 7 3	3 4 4	5 0 5	I	18	1 1 1	2 1 5	5 4 3	I	15	7 6 8	3 4 5	5 1 8	I	16	1 2 6	1 7 3	7 0 0	I	
16					19	9 7 7	2 6 3	5 7 3	I	16	1 0 6	2 3 2	5 2 4	I	17	1 1 1	2 1 3	6 3 8	I	
17	1 1 8	2 0 0	5 3 6	I	20					17	1 0 2	2 4 5	4 9 4	I	18	1 0 9	2 2 4	6 3 2	I	
18	1 1 3	2 1 6	6 2 8	I	21	1 1 2	2 1 3	5 8 7	I	18	1 0 4	2 5 0	5 0 2	I	20	7 4 1	3 6 0	4 7 4	I	
19	1 1 7	2 0 7	6 2 5	I	22	9 3 5	2 7 8	4 9 0	I	19	9 9 5	2 5 7	4 9 0	I	21	8 3 0	3 1 7	5 4 7	I	
20	1 0 8	2 3 2	5 4 5	I	23	1 0 4	2 5 0	5 4 4	I	20	1 1 6	2 0 5	6 1 3	I	22	7 1 7	3 6 3	3 9 1	I	
21	8 2 2	3 3 0	4 0 6	I	24					21	1 2 0	1 9 3	6 6 4	I	23	8 7 3	2 9 0	5 7 4	I	
22	7 2 0	3 7 5	4 4 1	I	25					22	1 0 9	2 2 5	6 1 8	I	24	1 0 6	2 2 5	6 3 2	I	
23	1 1 0	2 2 4	5 9 9	I	26	1 1 1	2 2 2	5 9 4	I	23	1 1 4	2 1 3	6 1 5	I	25					
24	1 0 3	2 4 6	5 6 3	I	27	1 0 5	2 3 7	5 6 2	I	24	1 0 9	2	2 3 0	5 8 8	I	26				
25	1 1 6	2 1 0	5 9 8	I	28					25					27	1 0 9	2 2 0	5 7 0	I	
26	1 2 6	1 7 9	6 4 5	I						26	1 2 2	8	1 8 5	6 2 7	I	28	9 3 0	2 7 2	5 7 9	I
27	8 2 0	3 3 4	4 7 0	I						27	9 7 7	2 6 3	5 6 4	I	29	8 2 8	3 1 1	4 9 2	I	
28	1 1 6	2 0 5	6 1 2	I						28	1 1 0	2 1 9	6 1 9	I	30	1 0 9	2 2 8	5 9 6	I	
29										29	1 0 9	2 2 8	5 9 6	I	31	1 0 4	2 5 0	5 4 0	I	
30										31										
31	7 8 7	3 4 2	4 0 8	I																
MAY				TYPE	JUNE				TYPE	JULY				TYPE	AUGUST				TYPE	
DAY	HHHH	PPP	TTT		DAY	HHHH	PPP	TTT		DAY	HHHH	PPP	TTT		DAY	HHHH	PPP	TTT		
01	1 0 3	2 3 4	6 5 0	I	01	9 2 0	2 6 8	5 2 6	I	01	1 1 9	1 9 0	6 3 3	I	01	1 0 6	2 2 5	6 8 9	I	
02	1 1 2	2 0 9	6 1 0	I	02	1 1 5	1 9 0	6 4 5	I	02	1 0 1	2 4 4	6 3 5	I	02	9 9 8	2 4 5	5 4 4	I	
03	1 0 5	2 4 0	5 6 3	I	03					03	8 1 7	3 1 7	5 2 3	I	03	1 1 7	1 9 4	7 4 6	I	
04					04					04	8 5 7	3 0 0	5 3 1	I	04					
05	1 0 6	3	2 9	6 3 5	I	05	1 0 4	2 2 7	5 6 0	I	05	8 7 3	2 8 7	6 3 7	I	05				
06	1 1 0	2 1 7	6 2 1	I	06	1 1 5	2 0 0	6 7 9	I	06	1 1 9	1 7 8	7 5 9	I	06					
07	1 2 4	1 7 5	6 6 3	I	07	1 0 0	2 5 0	5 8 3	I	07	9 5 8	2 5 0	5 7 1	I	07					
08					08					08	1 0 5	2 0 7	6 9 1	I	08	8 3 5	3 0 7	5 3 5	I	
09	1 3				09	9 3 2	2 7 2	5 6 5	I	09	1 1 0	2 0 7	6 9 1	I	09	1 1 1	0	2 0 8	6 2 1	
10	1 1 0	2 1 0	6 4 2	I	10	1 0 9	2 2 4	6 1 0	I	10	1 2 2	7 6 9	5 9 1	I	10	8 3 1	3 1 1	5 1 1	I	
11	1 1 2	2 1 0	6 6 7	I	11	1 0 9	2 2 6	6 1 5	I	11	1 1 1	0	2 0 7	5 8 6	I	11	9 0 6	2 7 5	5 8 6	I
12	1 1 2	2 1 0	6 6 7	I	12	7 0 2	3 7 8	4 6 9	I	12	9 1 1	2 6 9	5 9 1	I	12	9 5 0	2 5 8	6 3 1	I	
13	9 4 7	2 6 7	5 3 3	I	13	7 2 7	3 5 0	5 4 4	I	13	1 1 5	1 9 5	7 4 5	I	13	1 1 9	8 4	7 6 7	I	
14	8 6 0	3 0 0	5 6 4	I	14	9 2 7	2 6 9	5 9 7	I	14	1 1 9	8 4	7 6 7	I	14	1 0 7	6	2 1 5	5 8 6	
15	1 0 8	2 2 0	5 5 7	I	15	9 5 1	2 6 2	5 8 8	I	15	1 1 0	2 0 7	6 9 1	I	15	1 1 0	7	2 0 0	5 4 1	
16	8 7 6	2 8 5	5 4 2	I	16	1 1 4	2 3 0	6 3 2	I	16	9 8 9	2 8 0	6 0 0	I	16	1 1 9	1	2 4 4	7 7 1	
17	8 5 7	3 0 0	5 6 8	I	17	1 2 4	1 7 5	7 1 2	I	17	9 8 7	2 4 7	5 9 6	I	17	1 1 7	9	1 9 0	7 2 2	
18	1 2 0	1 8 7	6 9 2	I	18	1 0 3	2 3 5	6 3 0	I	18	1 1 0	2 1 6	6 6 5	I	18	1 0 8	5	2 2 0	6 2 0	
19	1 2 3	1 7 5	6 9 3	I	19	8 9 0	2 6 3	5 5 2	I	19	1 1 1	2 0 8	6 6 7	I	19	1 0 5	7	2 2 7	6 8 1	
20					20	6 6 7	2 7 0	5 9 4	I	20	9 2 5	2 7 8	4 6 7	I	20	9 8 6	2 5 0	6 5 8	I	
21	9 8 8	2 4 9	5 7 1	I	21	1 0 0	2 2 7	5 9 0	I	21	9 5 8	2 5 8	7 1 8	I	21	1 2 4	4	1 7 1	I	
22	1 0 2	3 0 0	5 6 2	I	22	8 1 0	3 0 8	6 3 1	I	22	1 0 3	2 4 2	6 3 0	I	22	1 1 7	9	1 9 0	7 2 2	
23	1 0 5	2 2 9	6 3 0	I	23	1 1 2	2 0 0	7 0 5	I	23	1 0 3	2 4 2	6 3 0	I	23	1 0 8	5	2 0 5	7 0 1	
24	1 1 6	2 0 0	5 5 9	I	24	1 1 2	2 4 7	6 1 2	I	24	9 7 6	2 5 5	6 5 2	I	24	1 1 9	1	1 8 7	7 0 3	
25	8 6 1	3 0 0	5 2 6	I	25	1 1 5	2 0 0	7 0 7	I	25	1 1 4	2 0 0	7 4 6	I	25	1 1 8	1	1 8 2	6 3 8	
26					26	8 4 2	3 1 5	4 9 5	I	26	1 0 0	7	2 4 2	I	26	8 2 1	3 2 0	5 0 4	I	
27					27	9 1 1	2 7 9	5 1 1	I	27					27					
SEPTEMBER				TYPE	OCTOBER				TYPE	NOVEMBER				TYPE	DECEMBER				TYPE	
DAY	HHHH	PPP	TTT		DAY	HHHH	PPP	TTT		DAY	HHHH	PPP	TTT		DAY	HHHH	PPP	TTT		
01	1 0 7	4	2 2 0	5 0 8	I	01	1 0 1	2 2 9	6 6 8	I	01	8 9 6	2 8 2	5 1 9	I	01	8 1 1	3 2 0	4 6 4	I
02	9 9 5	2 4 2	6 3 5	I	02	1 0 9	1 9 6	6 0 9	I	02	9 5 2	2 7 0	5 5 4	I	02	1 0 1	0	2 4 2	4 9 6	I
03	1 0 1	2 2 6	6 0 9	I	03	1 0 2	2 2 8													

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF JANUARY 1951

DAY	SURFACE			1000 MBARS			900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS		
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW											
01	012	005	4044	010	096	0038	018	142	0038	020	191	0035	037	299	5023	040	419	086	026		
02	001	006	4051	001	087	0039	027	134	0011	017	182	0004	010	288	5063	025	408	115	020		
03	998	006	9059	501	085	0045	049	131	0021	050	180	5004	045	287	5039	039	407	096	025		
04	003	005	2050	003	088	0000	018	134	0020	017	182	5048	010	286	5067	057	405	129	014		
05	992	005	6060	506	080	0041	038	160	0019	042	176	0015	037	282	5041	020	402	085			
06	006	007	8066	006	094	0136	103	142	0115	084	192	0078	068	301	0021	057	424	048	032		
07	001	007	4064	001	090	0133	106	138	0105	093	188	0079	081	298	5031	039	422	016	011		
08	985	005	3055	513	073	0052	045	119	0017	026	168	5001	018	274	5058	016	394	094	011		
09	997	007	1043	502	084	0015	028	129	0046	022	175	5079	019	279	5130	007	395	094	005		
10	013	004	0034	011	095	043	028	140	0068	020	187	5104	012	289	5139	0405	194	003			
11	017	004	9049	014	099	021	038	145	0048	026	193	5015	029	299	5044	006	419	096	026		
12	002	008	2062	002	089	0096	076	137	0075	069	187	0059	055	295	5025	038					
13	005	006	1055	005	090	0001	035	136	0028	029	183	5055	016	291	5132	009	402	199			
14	997	008	8056	502	084	0035	052	130	0002	044	179	5026	038	284	5071	029	403	128	017		
15	006	005	7042	005	090	0024	020	136	0056	020	183	5095	019	285	5113	007	403	155	005		
16	996	006	0055	503	083	0016	045	129	0003	042	178	5005	046	285	5006	011	406	079	008		
17	005	0048	539	005	090	0026	026	135	0064	022	182	5082	015	284	5145	005	400	165			
18	013	0049	3037	011	095	039	025	140	0065	019	187	5087	011	289	5153	004	405	191	005		
19	009	005	9056	008	094	0038	054	140	0033	056	189	0011	049	296	5051	032	415	113	022		
20	011	0075	5050	010	096	0026	046	142	0022	045	191	0025	022	298	5028	033	419	090	008		
21	008	006	1055	007	089	0083	053	136	0055	050	185	0038	044	293	5024	031	413	086			
22	005	006	6051	005	091	0030	039	137	0000	038	185	5010	041	291	5047	029	411	114	006		
23	006	007	1048	005	091	0003	024	136	0034	022	184	5060	023	288	5088	023	405	164	013		
24	007	0056	6042	006	091	0028	028	136	0056	025	183	5093	020	286	5115	007	402	198			
25	017	0066	3038	014	102	0071	040	148	0027	037	197	5015	030	304	5015	015	425	086	010		
26	016	0079	0056	014	100	0055	058	147	0035	050	196	0034	025	303	5031	024	424	098			
27	025	0065	5041	019	104	0024	024	151	0036	012	200	0021	012	306	5039	012	426	113			
28	007	0079	0064	005	093	0090	061	140	0043	043	189	0009	041								
29	004	0068	0041	004	089	0046	018	136	0043	012	185	0018		292	5015	018	414	065	010		
30	017	0071	0048	014	101	0051	037	147	0034	032	197	0039	024	304	5009	024	426	071			
31	018	0069	0049	015	101	0043	018	148	0067	019	197	0051	035	305	5021		428	066	011		

DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS			60 MILLIBARS		
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW			
01	558	184	11	721	296	04	919	451	180	613	362	532	624	514	769	503	957	488						
02	545	199	705	315	05	904	467	166	516	355	506	619	483	766	483									
03	546	176	10	709	286	06	803	417	175	506	362	504	622	553	765	506	953	501						
04	542	199	10	705	297	08	904	457	164	569	347	523	610	502	756	502	944	494						
05	541	184	10	704	304	06	901	456	165	468	359	502	623	499	769	500								
06	565	122	09	731	256	04	934	411	198	5156	383	532	645	488	793	460	988	382						
07	564	116		731	251		933	403	197	562	382	550	641	553	785	520	971	504						
08	533	160	9	697	275	08	899	395	173	442														
09	528	291	02	685	384		879	426	155	419	349	454	617	469	755	472	954	479						
10	538	270	02	696	375		869	475	156	460	347	473	613	491	760	471		950	475					
11	557	184	16	720	293	02	918	449	178	644	357	585	613	524	757	513	945	486						
13	535	289	691	368	08		867	429	157	468	348	470	615	481	762	471	956	475						
14	539	211	700	324	02		897	479	160	502	347	494	614	476	755	475	945	461						
15	538	245		697	366	02	890	495	154	466	344	476	611	485	759	462	950	457						
16	545	185		709	274	08	909	419	173	580	356	530	617	548	761	513	948	480						
17	535	235		695	339		891	460	158	430	350	468	616	491	763	487	953	458						
18	539	278	05	696	393	02	886	515	151	464	342	448	612	462	761	456	953	450						
19	554	171		717	300	03	916	446	174	635														
20	557	196	09	719	317	02	918	442	178	560	362	540	621	546	765	503	953	486						
21	551	205		713	315	01	910	474	169	561	352	549	613	510	758	505	947	471						
22	548	194		710	311		907	482	166	540	351	513	616	499	762	484	952	472						
23	541	230		700	359	02	894	509	156	504	345	488	611	488	757	485								
24	536	273		693	385		886	480																
25	564	156	06	728	270	05	929	423	191	631	369	574	627	542	770	523	957	490						
26	562	190		724	314		923	417	187	555	371	559	630	532										
27	563	201		724	335		919	493	178	543	364	514	627	525	771	518	959	484						
29	555	171	06	717	287		915	455</																

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF FEBRUARY 1951

DAY	SURFACE			1000. MBS.		900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS			
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW		
01	0 0 4	0 0 7	7 0 6 1	0 0 4	0 9 1	0 0 4 1	0 5 2	1 3 8	0 1 1 5	0 5 8	1 8 8	0 0 8 9	0 5 2	2 9 7	0 0 0 7	0 4 7	4 2 0	0 7 6	0 5 0		
02	9 9 0	0 0 7	1 0 3 6	5 0 8	0 7 9	0 0 5 6	0 5 8	1 2 5	0 0 4 8	0 5 8	1 7 5	0 0 3 1	0 4 1	2 8 3	0 0 0 0	0 3 1	4 0 4	0 7 4	0 2 4		
03	9 9 3	0 0 6	2 0 4 6	5 0 5	0 8 0	0 0 0 8	0 3 7	1 2 6	0 5 1 6	0 3 2	1 7 4	0 5 0 6	0 2 0	2 7 8	5 0 8 8	0 2 5	3 9 7	1 2 1	0 2 0		
04	9 8 5	0 0 6	9 0 4 2	5 1 2	0 7 4	0 0 1 3	0 3 6	1 2 0	0 2 0	0 2 4	1 6 8	0 5 0 5	0 2 0	2 7 1	5 1 2 5	0 1 4	3 8 7	2 1 6	0 0 5		
05	9 9 0	0 0 7	7 5 5 1	5 0 8	0 7 8	0 0 1 4	0 3 6	1 2 4	0 2 1 7	0 3 1	1 7 2	0 5 0 5	0 2 4	2 7 5	5 1 1 1	0 1 7	3 9 2	1 9 6	0 0 5		
06	0 0 9	0 0 6	9 0 4 7	0 0 8	0 9 3	5 0 0 5	0 3 1	1 3 9	5 0 3 4	0 2 7	1 8 7	5 0 3 7	0 1 7	2 9 1	5 1 0 8	0 0 7	4 0 7	1 7 8	0 0 5		
07	0 1 6	0 0 5	5 0 4 1	0 1 4	0 9 9	5 0 0 6	0 3 2	1 4 5	0 0 2 3	0 1 1	1 9 3	0 0 1 9	0 2 8	3 0 0	5 0 2 5	0 1 9	4 2 1	0 6 0			
08	0 0 7	0 0 7	6 0 6 6	0 0 6	0 9 3	0 0 7 3	0 6 5	1 4 0	0 0 4 5	0 4 8	1 8 9	0 0 3 6	0 2 3	2 9 7	5 0 1 2	0 1 3	4 1 8	0 9 4			
09	0 1 6	0 0 7	0 0 4 2	0 1 4	0 9 9	0 0 2 5	0 3 4	1 4 5	0 0 1 0	0 1 1	1 9 4	0 0 3 3	0 3 0	5 0 0 1	4 2 3	0 7 0	0 2 0				
10	9 9 7	0 0 8	4 0 4 2	5 0 2	0 8 5	0 0 4 2	0 5 6	1 3 1	0 0 5 3	0 6 3	1 8 1	0 0 3 0	0 4 2	2 8 8	5 0 0 6	0 3 1	4 1 0	0 8 1	0 2 6		
11	9 9 9	0 0 6	6 0 4 5	5 0 0	0 8 5	5 0 0 5	0 2 8	1 3 1	0 0 4 2	0 2 3	1 7 4	5 0 6 6	0 1 2	2 8 1	5 1 5 0	0 0 9	3 9 6	2 4 0	0 0 6		
12	0 0 5	0 0 6	0 0 4 7	0 0 3	0 8 8	5 0 1 1	0 3 7	1 3 4	5 0 3 7	0 3 3	1 8 1	5 0 6 6	0 2 7	2 8 5	5 1 2 2	0 1 8	4 0 2	1 5 4	0 1 5		
13	9 6 2	0 0 8	9 0 6 7	5 3 1	0 5 6	0 0 7 4	0 6 7	1 0 3	0 0 6 2	0 6 2	1 5 2	0 0 4 8	0 5 9	2 6 0	5 0 0 5	0 4 7	3 8 3	0 4 4	0 3 2		
14	9 7 4	0 0 4	4 0 3 5	5 2 1	0 6 4	5 0 0 9	0 2 8	1 1 0	5 0 4 9	0 2 3	1 5 7	5 0 8 8	0 1 6	2 5 9	5 1 4 1	0 1 0	3 7 5	1 7 7			
15	9 9 4	0 0 6	2 0 4 0	5 0 4	0 8 1	5 0 1 5	0 3 0	1 2 6	5 0 4 1	0 1 7	1 7 4	5 0 7 4	0 1 3	2 7 7	5 1 3 0	0 0 5	3 9 3	1 8 5			
16	9 9 8	0 0 7	5 0 6 0	5 0 1	0 8 5	5 0 5 0	0 5 9	1 3 2	0 0 3 4	0 5 6	1 8 1	0 0 1 4	0 5 0	2 8 8	5 0 3 5	0 3 8	4 0 9	0 7 1	0 2 9		
17	9 9 2	0 0 4	2 0 4 0	5 0 6	0 7 9	5 0 2 3	0 4 1	1 2 4	5 0 4 6	0 2 8	1 7 2	5 0 5 1	0 2 9	2 7 6	5 0 9 5	0 2 2	3 9 4	1 5 6	0 1 4		
18	9 9 3	0 0 5	7 0 5 2	5 0 5	0 8 1	0 0 0 8	0 3 9	1 2 6	5 0 2 4	0 3 3	1 7 4	5 0 5 3	0 2 7	2 7 7	5 1 0 0	0 0 7	3 9 4	1 7 5	0 0 5		
19	0 1 0	0 0 6	1 0 4 6	0 0 9	0 9 4	5 0 0 9	0 5 1	1 3 9	5 0 4 5	0 1 4	1 8 7	5 0 6 9	0 1 8	2 9 0	5 1 2 0	0 0 8	4 0 7	1 8 4			
20	0 1 3	0 0 6	4 0 5 4	0 1 1	0 9 7	0 0 3 4	0 5 1	1 4 5	0 0 2 5	0 4 8	1 9 2	0 0 0 8	0 4 5	2 9 9	5 0 1 9	0 2 3	4 2 0	0 8 5			
21	0 1 5	0 0 7	0 0 5 7	0 1 3	0 9 9	0 0 1 0 5	0 4 5	1 4 7	0 0 7 4	0 3 9	1 9 7	0 0 7 2	0 4 2	3 0 5	5 0 1 4	0 2 6	4 2 7	0 7 1	0 2 0		
22	0 0 7	0 0 6	1 0 5 8	0 0 6	0 9 3	0 0 7 5	0 7 1	1 4 0	0 0 5 3	0 6 6	1 8 9	0 0 3 5	0 6 0	2 9 7	5 0 2 9	0 3 9	4 1 7	1 0 3	0 2 2		
23	0 0 0	0 0 4	4 0 5 2	0 0 1	0 8 7	0 0 3 5	0 5 0	1 3 5	0 0 2 7	0 5 3	1 8 2	0 0 0 9	0 4 8	2 8 9	5 0 3 0	0 3 9	4 1 0	0 9 3	0 2 4		
24	0 1 5	0 0 7	4 0 4 7	0 1 3	0 9 8	5 0 2 6	0 3 0	1 4 5	5 0 4 0	0 1 8	1 9 1	5 0 3 8	0 1 0	2 9 5	5 0 7 6	0 1 4	4 1 3	1 4 0	0 0 8		
25	0 1 8	0 0 6	1 0 4 2	0 1 5	1 0 0	5 0 2 1	0 2 4	1 4 5	5 0 0 4		1 9 4	5 0 2 2		2 9 9	5 0 6 1		4 1 8	1 1 8			
26	0 2 1	0 0 6	0 0 5 4	0 1 6	1 0 3	0 0 0 0	0 3 7	1 4 8	5 0 2 8	0 3 4	1 9 7	5 0 0 4	0 1 7	3 0 3	5 0 3 9	0 2 4	4 2 3	1 1 2	0 1 1		
27	0 0 8	0 0 6	1 0 5 9	0 0 7	0 9 3	0 0 1 8	0 5 1	1 3 9	5 0 1 2	0 4 7	1 8 7	5 0 4 2	0 5 2	2 9 2	5 0 4 0		4 1 2	1 0 6			
28	0 0 6	0 0 6	5 0 5 7	0 0 5	0 9 2	0 0 3 3	0 5 2	1 3 8	0 0 0 6	0 4 4	1 8 7	5 0 0 5	0 3 5	2 9 3	5 0 2 8	0 1 0	4 1 4	0 9 5			
DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS		
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW
01	5 5 9	1 6 0	1 4	7 2 4	2 7 5	0 4	9 2 5	4 2 0	1 9 0	5 4 5	3 7 3	5 7 5	6 3 0	5 4 4	7 7 4	5 1 5	9 6 1	5 0 0			
02	5 4 4	1 2 5	1 5	7 1 2	2 1 3	0 8	9 1 7	3 6 0	1 9 7	3 7 8	3 9 3	4 1 9	6 6 9	3 9 7	8 2 2	3 8 8					
03	5 3 4	2 1 7	1 0	6 9 4	3 3 4	0 2	8 8 9	4 9 0	1 5 8	4 4 1	3 5 0	4 5 5	6 1 9	4 8 0	7 6 5	5 0 6	9 5 4	4 8 1			
04	5 1 9	2 9 6	0 3	6 7 4	4 0 8		8 6 6	4 5 1	1 3 9	4 0 8	3 3 4	4 3 2	6 0 4	4 7 2	7 5 2	4 6 8	9 4 3	4 7 9			
05	5 2 4	3 1 5	0 3	6 7 9	4 2 9		8 7 0	4 5 2	1 4 5	4 1 0	3 3 9	4 4 3	6 0 9	4 6 1	7 5 6	4 7 5	9 4 7	4 6 7			
06	5 4 2	2 4 7		7 0 1	3 3 7		8 9 7	4 6 3	1 6 6	4 7 4	3 5 6	4 8 3	6 2 1	5 0 5	7 6 7	5 0 7	9 5 5	4 9 2			
07	5 6 1	1 4 3	1 4	7 2 7	2 6 1	0 5	9 2 9	4 2 4	1 9 1	5 6 3	3 7 2	5 7 8	6 2 8	5 5 9	7 7 1	5 4 8	9 5 6	5 2 0			
08	5 5 8	1 5 4		7 2 2	2 8 8		9 2 2	4 1 0													
09	5 6 3	1 6 3	1 3	7 2 7	2 6 0	0 3	9 2 8	4 2 6	1 9 0	6 0 5	3 7 1	5 6 2	6 2 7	5 7 4	7 6 9	5 5 5	9 5 3	5 3 0			
10	5 4 9	1 6 5	1 6	7 1 3	2 7 5		9 1 4	4 1 9	1 7 9	5 1 1	3 6 4	5 6 3	6 2 2	5 5 0	7 6 6	5 2 0					
11	5 2 6	3 3 0	0 4	6 8 0	4 0 6		8 7 2	5 0 8	1 4 2	4 3 3	3 3 6	4 5 6	6 0 5	4 7 6	7 5 1	4 7 5					
12	5 3 7	2 4 9	0 7	6 9 6	3 6 4	0 3	8 8 8	5 2 0													
13	5 2 4	1 3 6	1 6	6 9 1	2 2 9	0 8	8 9 6	3 7 0	1 6 9	4 6 1	3 5 9	4 6 9	6 2 7	4 5 6	7 4 6	4 7 4					
14	5 0 9	2 6 8		6 6 7	3 8 2		8 6 0	4 3 5	1 3 6	4 1 9	3 2 9	4 4 9	5 9 8	4 7 2	7 4 6	4 7 4					
15	5 2 7	2 3 9	0 4	6 8 7	3 3 2	0 2	8 8 4	4 5 9													
16	5 4 9	1 5 1	1 1	7 1 4	2 8 4	0 8	9 1 3	4 3 2	1 7 9	5 4 2	3 6 3	5 5 0	6 2 1	5 3 8							
17	5 2 9	2 5 1	1 0	6 8 9	3 2 8	0 3	8 8 7	4 2 3	1 6 1	4 3 5	3 5 2	4 8 7	6 1 6	5 0 6	7 6 1	5 0 6	9 4 8	5 0 6			
18	5 2 8	2 7 1	0 4	6 8 6	3 5 7		8 8 3	4 3 8	1 5 5	4 6 4	3 4 5	4 9 8	6 0 8	5 0 3	7 5 4	5 0 8					
19	5 4 2	2 1 9																			
20	5 5 9	1 8 1		7 2 1	3 0 6		9 1 9	4 3 8													
21	5 6 6	1 6 0	1 1	7 3 0	2 9 3	0 3	9 3 1	4 1 2	1 9 6	5 8 3	3 7 6	6 2 1	6 2 8	5 6 9	7 6 5	5 6 0	9 4 8	5 6 0			
22	5 5 6	1 7 0	0 7	7 2 1	2 6 5		9 2 3	4 0 0	1 8 7	5 3 7	3 7 0	5 8 5	6 2 4	5 7 5	7 6 3	5 4 6					
23	5 4 9	1 7 4	1 2	7 1 2	2 9 4	0 4	9 1 1	4 5 1	1 7 6	4 9 3	3 6 3	5 4 4									

**RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF MARCH 1951**

DAY	SURFACE			1000. MBS.		900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS		
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW										
01	9 9 6	0 0 7	9 0 5	9	5 0 3	0 8 4	0 0 4 0	0 5 1	1 3 0	0 0 1 6	0 4 6	1 7 9	0 0 2 2	0 4 9	2 8 6	5 0 3 7	0 5 8	4 0 6	1 0 5	0 0 7
02	9 8 5	0 0 5	0 0 4	8	5 1 2	0 7 4	0 0 2 5	0 3 6	1 2 0	0 0 1 1	0 2 8	1 6 8	0 0 3 6	0 2 6	5 0 7 9	0 2 2	3 9 0	1 4 9	0 0 5	
03	9 8 2	0 0 7	9 0 5	5	5 1 4	0 7 2	0 0 2 7	0 4 4	1 1 8	0 0 1 5	0 3 9	1 6 6	0 0 3 5	0 3 2	2 7 1	0 0 8 0	3 8 9	1 2 0	0 1 9	
04	9 9 6	0 0 7	0 0 4	7	5 0 3	0 8 3	0 0 5 6	0 3 0	1 2 8	0 0 3 8	0 2 3	1 7 6	0 0 5 6	0 1 6	2 7 9	5 1 3 5	0 0 8	3 9 4	1 9 5	0 0 7
05	9 9 2	0 0 5	0 0 2	5	5 0 6	0 8 0	0 0 2 4	0 4 1	1 2 5	0 0 0 9	0 1 9	1 7 5	0 0 8	2 8 0	5 0 7 5	0 2 7	3 9 9	1 3 8		
06	9 6 9	0 0 8	4 0 5	4	5 2 5	0 6 1	0 0 2 2	0 4 5	1 0 7	0 0 0 3	0 4 4	1 5 5	0 0 2 0	0 4 0	2 6 1	5 0 7 4	0 2 6	3 7 9	1 3 3	0 1 0
07	9 6 9	0 0 8	4 0 5	4	5 2 5	0 6 1	0 0 2 2	0 4 5	1 0 7	0 0 0 3	0 4 4	1 6 7	0 0 4 5	0 2 6	2 7 1	5 1 1 1	0 1 6	3 8 7	2 0 3	0 0 8
08	9 8 4	0 0 8	0 0 4	7	5 1 3	0 7 3	0 0 1 1	0 3 5	1 1 9	0 0 2 5	0 3 2	1 6 7	0 0 4 5	0 1 4	2 8 3	5 1 3 5	0 1 1	3 9 8	1 7 4	0 1 2
09	0 0 1	0 0 5	7 0 4	3	5 0 1	0 8 7	0 0 2 3	1 3 2	0 0 4 5	0 1 9	1 8 0	0 0 6 4	0 1 4	2 8 3	5 1 3 5	0 0 8	4 0 9	1 4 7	0 1 0	
10	0 0 2	0 0 5	3 0 3	4	5 0 1	0 9 5	0 0 3 5	0 2 4	1 4 0	0 0 7 5	0 2 1	1 8 7	0 0 8 0	0 1 3	2 9 1	5 0 8 2	0 0 8	4 0 9	1 3 1	0 2 1
11	0 0 2	0 0 7	5 0 6	6	5 0 2	0 8 9	0 0 4 3	0 5 9	1 3 5	0 0 3 0	0 5 7	1 8 4	0 0 6 6	0 5 0	2 9 0	5 0 6 1	0 3 1	4 0 9	1 3 1	0 2 1
12	9 8 4	0 0 7	5 0 5	6	5 1 5	0 7 4	0 0 4 5	0 5 6	1 2 0	0 0 3 5	0 5 5	1 6 9	0 0 1 5	0 4 3	2 7 6	5 0 2 7	0 2 7	3 9 6	0 9 1	
13	0 1 5	0 0 7	0 0 5	5	5 1 3	0 9 8	0 0 5 1	0 1 8	1 4 3	0 0 1 8	0 2 9	1 9 2	0 0 2 7	0 2 6	2 9 7	5 0 6 2	0 2 3	4 1 6	1 2 1	0 1 4
14	0 1 7	0 0 6	5 0 5	7	5 1 5	1 0 1	0 0 4 1	0 4 2	1 4 7	0 0 2 9	0 4 7	1 9 6	0 0 2 0	0 4 1	3 0 3	5 0 2 5	0 3 1	4 2 4	0 9 5	0 1 9
15	0 0 0	0 0 8	9 0 7	2	5 0 1	0 8 8	0 0 5 9	0 6 4	1 3 5	0 0 1 6	0 7 8	1 8 5	0 0 7 4	0 5 3	2 9 4	0 0 0 5	0 4 3	4 1 6	0 8 0	0 0 9
16	0 0 3	0 0 8	0 0 5	8	5 0 2	0 8 9	0 0 0 9	0 5 9	1 3 5	0 0 1 6	0 2 8	1 8 3	0 0 4 1	0 2 0	2 8 6	5 1 2 0	0 1 1	4 0 2	2 0 1	0 0 6
17	9 9 7	0 0 6	1 0 4	6	5 0 2	0 8 3	0 2 4	0 3 1	1 2 8	0 0 7 0	0 2 2	1 7 5	0 0 8 6	0 1 0	2 7 8	5 1 5 0	0 0 7	3 9 4	1 9 1	0 0 6
18	0 0 0	0 0 4	3 0 3	6	5 0 1	0 8 5	0 0 1 5	0 3 6	1 3 1	0 0 4 4	0 3 3	1 7 8	0 0 8 4	0 2 4	2 8 0	5 1 5 6	0 1 3	3 9 5	2 0 0	0 0 7
19	0 1 2	0 0 4	9 0 5	3	5 1 0	0 9 5	0 0 4 9	0 2 4	1 3 9	0 0 8 4	0 1 7	1 8 6	0 1 2 6	0 1 5	2 8 7	5 1 6 7	0 0 7	4 0 1	2 3 4	0 0 2
20	0 0 8	0 0 6	5 0 8	4	5 0 1	0 9 2	0 0 7	0 3 6	1 3 8	0 0 4 2	0 3 1	1 8 5	0 0 5 5	0 2 5	2 8 8	5 1 3 5	0 1 6	4 0 4	2 0 3	0 0 9
21	9 8 2	0 0 6	7 0 4	9	5 1 4	0 7 1	0 0 1	0 3 8	1 7	0 0 3 5	0 3 3	1 6 4	0 0 7 3	0 2 7	2 6 7	5 1 2 3	0 0 7	3 8 3	1 9 4	
22	9 9 4	0 0 5	6 0 2	8	5 0 4	0 8 1	0 0 2 5	0 2 2	1 2 6	0 0 6 7	0 1 9	1 7 3	0 1 0 5	0 1 1	2 7 4	5 1 7 7	0 0 5	3 8 7	2 7 3	0 0 2
23	0 0 2	0 0 5	5 0 3	5	5 0 2	0 8 8	0 0 0 1	0 4 0	1 3 3	0 0 2 8	0 3 6	1 8 1	0 0 5 0	0 3 1	2 8 5	5 1 0 7	0 2 0	4 0 2	1 7 5	0 1 1
24	0 1 0	0 0 6	0 0 5	4	5 0 4	0 9 0	0 0 1 3	0 4 4	1 4 0	0 0 0 7	0 3 9	1 8 9	0 0 0 1	0 2 8	2 9 5	5 0 5 5	0 3 0	4 1 4	1 9 0	0 2 2
25	9 9 1	0 0 5	7 0 4	5	5 0 7	0 7 9	0 0 0 8	0 3 5	1 2 4	0 0 1 2	0 1 7	1 7 3	0 0 4 2	0 2 4	2 7 7	5 0 7 0	0 3 0	3 9 7	1 2 6	0 2 1
26	0 0 9	0 0 7	0 0 5	4	5 0 8	0 9 3	0 0 0 0	0 3 6	1 3 9	0 0 5 8	0 2 9	1 8 7	0 0 5 1	0 2 7	2 9 2	5 0 7 2	0 1 4	4 1 1	1 3 4	0 0 6
27	9 8 6	0 0 8	0 0 6	7	5 1 1	0 7 6	0 0 1 0	0 8 2	1 2 4	0 0 7 4	0 7 4	1 7 3	0 0 5 0	0 6 9	2 8 1	5 0 1 5	0 4 6	4 0 2	0 8 5	0 1 6
28	9 9 0	0 0 7	1 0 5	8	5 0 8	0 7 9	0 0 3 0	0 5 1	1 2 5	0 0 0 6	0 4 7	1 7 3	0 0 2 5	0 4 0	2 7 8	5 0 8 2	0 2 9	3 9 6	1 3 6	0 1 8
29	9 8 6	0 0 7	2 0 6	4	5 1 1	0 7 5	0 0 4 9	0 5 8	1 2 2	0 0 2 5	0 5 2	1 7 1	0 0 3 0	0 4 7	2 7 7	5 0 5 7	0 3 4	3 9 6	1 3 3	0 1 7
30	0 0 2	0 0 7	4 0 5	3	5 0 2	0 8 8	0 0 0 5	0 4 1	1 3 4	0 0 1 0	0 4 0	1 8 2	0 0 3 5	0 3 6	2 8 7	5 0 9 4	0 2 6	4 0 5	1 3 0	0 0 5
31	0 1 1	0 0 7	2 0 5	1	5 0 1	0 9 5	0 0 1 3	0 3 0	1 4 0	0 0 4 5	0 2 0	1 8 7	0 0 7 3	0 1 6	2 9 2	5 0 7 8	0 0 7	4 1 0	1 5 5	0 1 1

DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS			60 MILLIBARS		
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW			
01	5 4 5	1 9 1	1 2	7 0 8	2 8 3	0 8	9 0 7	4 4 8	1 7 0	4 9 4	3 5 7	5 0 4	6 2 1	5 1 5	7 6 6	5 3 1			9 4 4	5 1 1				
02	5 2 5	2 4 6	0 4	6 8 4	3 6 8	0 1	8 7 8	4 6 9	1 5 0	4 4 1	3 4 1	4 6 7	6 1 0	4 7 6	7 5 7	4 9 2								
03	5 2 7	1 9 5	1 3	6 8 9	3 2 2	0 4	R 8 7	4 5 2	1 5 3	4 7 3	3 4 3	4 9 9	6 0 7	4 9 0	7 5 4	4 9 4								
04	5 2 8	2 6 5	0 8	6 8 7	3 4 2	0 4	R 8 1	4 9 8	1 4 7	4 6 3	3 3 7	4 7 3	6 0 4	5 0 1	7 4 9	5 0 1	9 3 7	4 9 4						
05	5 3 5	2 2 7		6 9 5	3 3 2		R 8 9	4 9 5	1 6 3	4 4 8	3 5 1	5 0 5	6 1 5	4 9 1	7 6 1	5 1 6								
06	5 1 5	2 3 2		6 7 5	3 2 8		R 7 3	3 8 4																
07	5 1 5	2 3 2		6 7 5	3 2 8		R 7 0	3 8 3	1 4 1	4 1 0	3 4 1	4 6 1	6 0 9	4 9 0	7 5 5	4 7 5	9 4 5	4 9 1						
08	5 2 0	3 0 1	0 4	6 7 5	4 1 6		R 8 3	3 8 3	1 4 1	4 1 0	3 4 1	4 6 1	6 0 9	4 9 0	7 5 5	4 7 5	9 4 5	4 9 1						
09	5 3 3	2 4 9	0 7	6 9 1	3 7 1	0 3	R 8 3	5 3 1	1 4 5	4 6 9	3 3 5	4 8 4	6 0 1	4 9 8	7 4 7	5 0 0	9 3 5	4 9 5						
10	5 4 4	2 3 9	0 3	7 0 4	3 3 4	0 2	R 9 9	4 9 5	1 6 1	5 2 3	3 4 7	5 1 1	6 1 1	5 1 6	7 5 6	5 1 6								
11	5 4 7	2 0 9	0 4	7 0 7	3 4 1		R 9 0	4 8 7	1 6 3	5 3 2	3 4 9	5 2 0	6 1 0	5 3 4	7 5 4	5 3 7								
12	5 3 4	2 0 5		6 9 5	3 4 1		R 8 9	4 8 1	1 5 4	4 9 9	3 4 2	5 0 3	6 0 5	5 2 0										
13	5 5 4	2 0 3	0 6	7 1 5	3 1 8	0 4	R 9 1	4 8 8																
14	5 6 2	2 0 9	1 0	7 2 4	3 1 8	0 3	R 9 2	4 6 6	1 6 0	5 7 9	3 6 1	5 8 0	6 1 9	5 4 6	7 6 2	5 3 6	9 4 7	5 3 0						
15	5 5 5	1 7 6	1 4	7 1 9	2 9 5	0 6	R 9 1	4 5 8	1 7 9	5 2 4	3 6 3	5 8 7	6 2 1	5 3 7	7 6 5	5 3 1								

**RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF APRIL 1951**

DAY	SURFACE			1000 MBARS		900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS					
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW				
01	0 0 6	0 0 7	0 0 6 1	0 0 5	0 9 2	0 0 4 5	0 5 4	1 3 8	0 0 1 6	0 4 8	1 8 7	5 0 1 1	0 4 3	2 9 3	5 0 6 1	0 3 1	4 1 2	1 1 2	0 2 1				
02	9 9 4	0 0 7	5 0 5 5	5 0 4	0 8 2	0 0 5 3	0 5 6	1 2 9	0 0 4 5	0 6 0	1 7 8	0 0 2 8	0 5 2	2 8 5	5 0 4 5	0 3 7	4 0 5	1 0 7	0 1 5				
03	9 9 5	0 0 5 5	4 7	5 0 5	0 8 1	0 0 5 0	0 4 5	1 2 7	0 0 6 6	0 4 1	1 7 5	5 0 0 4	0 3 7	2 8 1	5 0 5 8	0 2 9	4 0 0	1 3 1	0 1 0				
04	9 9 8	0 0 4 1	0 0 5 2	5 0 1	0 8 4	0 0 4 1	0 5 3	1 3 1	0 0 5 6	0 2 0	1 8 0	0 0 1 0	0 1 0	2 8 5	5 0 6 5	0 1 6	4 0 4	1 4 4					
05	9 9 7	0 0 5 9	5 8	5 0 2	0 8 4	0 0 2 5	0 4 9	1 3 0	0 0 2 0	0 4 5	1 7 8	5 0 5 4	0 3 8	2 8 3	5 0 5 5	0 1 0	4 0 2	1 3 9	0 1 1				
06	9 9 2	0 0 5 9	5 2	5 0 6	0 7 9	5 0 0 9	0 3 6	1 2 5	0 0 2 4	0 3 4	1 7 3	5 0 5 5	0 3 0	2 7 7	5 1 1 4	0 2 0	3 9 4	1 6 9	0 1 5				
07	0 0 6	0 0 5 8	0 5 7	0 0 5	0 9 0	5 0 3 0	0 2 3	1 3 5	0 0 6 8	0 2 1	1 8 3	5 0 3 4	0 1 8	2 8 8	5 0 6 5	0 2 0	4 0 7	1 2 7	0 0 9				
08	0 0 5	0 0 5 2	0 5 1	0 0 5	0 8 8	5 0 0 1	0 4 1	1 3 4	0 0 3 0	0 3 4	1 8 1	5 0 6 0	0 2 7	2 8 6	5 0 6 6		4 0 4	1 6 0					
09	0 0 3	0 0 6 6	0 4 1	0 0 5	0 8 8	5 0 2 4	0 2 9	1 3 3	0 0 3 0	0 0 8	1 8 1	5 0 2 5		2 8 7	5 0 7 7		4 0 4	1 6 8	0 1 0				
10	9 9 6	0 0 7	3 0 6 2	5 0 3	0 8 4	0 0 5 1	0 5 6	1 3 1	0 0 3 0	0 4 9	1 7 9	5 0 0 4	0 4 2	2 8 5	5 0 6 1	0 1 2	4 0 4	1 3 6	0 1 1				
11	0 0 3	0 0 5 4	0 4 0	0 0 3	0 8 8	5 0 3 1	0 2 6	1 3 3	0 0 6 3	0 2 1	1 8 0	5 0 8 6	0 0 8	2 8 3	5 1 1 9		4 0 0	1 6 0					
12	0 1 2	0 0 4 6	0 3 6	0 1 0	0 9 5	5 0 3 3	0 2 5	1 4 0	0 0 1 5	0 1 1	1 8 8	5 0 2 5	0 1 4	2 9 4	5 0 5 7	0 3 1	4 1 3	1 3 5	0 2 0				
14	9 9 0	0 0 3 8	0 3 1	5 0 7	0 7 7	5 0 4 0	0 2 4	1 2 2	5 0 8 4	0 2 1	1 6 9	5 0 5 9	0 1 5	2 7 3	5 0 9 2	0 1 6	3 9 1	1 4 5	0 1 1				
15	0 0 2	0 0 2 9	0 2 2	0 0 2	0 8 6	5 0 5 8	0 1 6	1 3 1	5 1 0 3	0 1 6	1 7 7	5 1 1 8	0 1 4	2 7 8	5 1 7 3		3 9 1	2 4 1					
16	0 0 7	0 0 4 7	0 4 6	0 0 5	0 9 0	5 0 2 5	0 3 4	1 3 5	5 0 5 6	0 2 7	1 8 4	5 0 0 7	0 1 1	2 8 9	5 0 6 1		4 0 7	1 4 6	0 0 6				
17	0 1 3	0 0 6 9	0 5 1	0 1 1	0 9 6	5 0 2 4	0 2 9	1 4 2	5 0 3 5	0 2 7	1 9 0	0 0 0 4	0 1 3	2 9 6	5 0 6 3		4 1 4	1 4 7	0 0 5				
18	0 0 6	0 0 4 5	0 5 5	0 0 5	0 9 1	5 0 1 0	0 3 7	1 3 7	5 0 3 4	0 1 5	1 8 5	0 0 1 5	0 1 2	2 9 2	5 0 5 5		4 1 1	1 1 5					
19	9 8 6	0 0 7	5 0 6 2	5 1 1	0 7 5	0 0 4 8	0 5 7	1 2 2	0 0 1 8	0 5 0	1 7 1	5 0 0 1	0 4 5	2 7 7	5 0 4 6	0 3 7	3 9 6	1 2 4	0 2 0				
20	9 9 1	0 0 6 6	0 4 8	5 0 7	0 7 9	0 0 0 5	0 3 2	1 2 4	5 0 2 2	0 2 8	1 7 3	5 0 2 6	0 1 9	2 7 7	5 1 0 5	0 1 2	3 9 4	1 4 9					
21	9 8 2	0 0 7	2 0 6 1	5 1 4	0 7 2	0 0 3 1	0 5 1	1 1 8	0 0 1 5	0 4 9	1 6 7	5 0 1 1	0 4 3	2 7 2	5 0 8 6	0 2 3	3 9 0	1 5 4	0 1 4				
22	9 8 4	0 0 4 5	0 3 6	5 1 3	0 7 3	5 0 1 2	1 1 8	5 0 4 3			1 6 5	5 0 8 1	0 0 7	2 6 8	5 1 3 5		3 8 3	1 9 4	0 0 3				
23	9 9 9	0 0 3	2 0 2 9	5 0 0	0 8 4	5 0 5 2	0 2 1	1 2 8	5 0 9 1	0 1 6	1 7 5	5 1 3 1	0 1 2	2 7 5	5 1 6 9		3 9 0	2 2 3					
24	0 0 7	0 0 2 5	0 3 9	5 0 6	0 9 1	0 0 1 6	0 1 3	1 3 7	5 0 2 2	0 0 0 0	1 8 6	5 0 0 4		2 9 2	5 0 4 8		4 1 1	1 1 5					
25	0 0 4	0 0 5 0	0 3 9	5 0 7	0 9 2	5 0 0 5	0 3 7	1 3 8	5 0 0 1	0 4 1	1 8 2	5 0 1 7		2 8 7	5 0 7 4		4 0 5	1 4 7					
26	0 0 8	0 0 4 3	0 3 9	5 0 7	0 9 2	5 0 0 5	0 3 7	1 3 8	5 0 0 1	0 4 1	1 8 6	5 0 1 5		2 9 2	5 0 5 5	0 1 5	4 1 2	1 1 1	0 0 5				
27	0 0 5	0 0 6 1	0 5 3	5 0 5	0 9 1	0 0 2 3	0 4 7	1 3 7	5 0 0 3	0 4 2	1 8 5	5 0 3 1	0 3 6	2 9 0	5 0 6 1	0 3 0	4 1 0	1 3 4	0 1 7				
28	0 1 1	0 0 5 5	0 4 4	0 0 9	0 9 5	5 0 0 8	0 3 5	1 4 0	5 0 5 1	0 2 7	1 8 7	5 0 5 4	0 1 9	2 9 2	5 0 7 8	0 0 9	4 1 1	1 3 9	0 0 7				
29	0 0 0	0 0 7	4 0 5 4	0 0 1	0 8 7	5 0 3 5	0 5 3	1 3 3	5 0 2 3	0 5 0	1 8 2	5 0 0 5	0 4 3	2 8 7	5 0 5 9	0 2 7	4 0 6	1 4 2	0 1 7				
30	0 0 4	0 0 3 7	0 3 8	5 0 3	0 8 7	5 0 3 5	0 2 4	1 3 2	5 0 6 5	0 2 1	1 7 9	5 0 9 9	0 1 4	2 8 1	5 1 7 1	0 0 9	3 9 5	2 4 8					
DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS				
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW		
01	5 4 9	2 0 9	1 0	7 1 1	3 3 3	0 4	9 0 7	4 8 1	1 6 3	6 1 6	3 4 4	5 7 9	6 0 1	5 5 6	7 4 3	5 5 4							
02	5 4 4	2 0 9	0 9	7 0 5	3 2 5	0 4	9 0 0	4 9 0	1 5 5	6 0 1	3 3 8	5 3 5	5 9 9	5 3 1									
03	5 3 7	2 2 3	0 3	6 9 6	3 3 8	0 2	8 9 1	4 9 8	1 5 4	5 0 2	3 4 1	5 2 2	6 0 3	5 2 4	7 4 7	5 3 1	9 3 1	5 4 2					
04	5 3 9	2 6 3	0 5	6 9 6	3 7 7		8 8 7	5 5 3	1 5 1	4 8 7	3 3 9	5 1 6	6 0 1	5 3 3	7 4 4	5 4 0	9 2 8	5 4 8					
05	5 3 9	2 2 5	0 4	6 9 8	3 4 8	0 2	8 9 3	4 9 9	1 5 1	5 3 0	3 3 7	5 1 4											
06	5 2 8	2 5 1		6 8 7	3 7 9		8 7 8	5 0 5	1 4 2	4 9 1	3 3 1	4 9 3	5 9 5	5 1 0	7 4 0	5 1 7							
07	5 4 4	2 1 0	0 5	7 0 5	3 3 7	0 1	8 9 9	5 0 9	1 5 4	5 9 3	3 3 6	5 4 2	5 9 6	5 3 2	7 3 9	5 2 5	9 2 5	5 2 5					
08	5 3 9	2 4 3		6 9 7	3 6 3	0 4	8 9 1	4 9 0	1 4 9	5 5 0	3 3 4	5 4 7	5 9 4	5 3 9	7 3 8	5 2 6	9 2 3	5 2 9					
09	5 4 0	2 2 6	0 7	6 9 9	3 5 0	0 4	8 9 3	5 0 3	1 5 0	5 6 9	3 3 4	5 2 4	5 9 6	5 2 5	7 4 1	5 2 4	9 2 6	5 4 0					
10	5 4 1	2 1 3	0 4	7 0 1	3 3 3		8 9 6	5 0 2	1 5 1	6 3 2	3 3 2	5 5 2	5 9 0	5 4 9									
11	5 3 5	2 6 7		6 9 3	3 7 5	0 2	8 8 4	5 2 5	1 4 6	5 1 3	3 3 2	5 0 0	5 9 4	5 2 1	7 3 8	5 4 0	9 2 2	5 4 5					
12	5 4 9	2 1 6	0 5	7 1 0	3 3 9		9 0 6	4 8 6	1 6 4	5 6 3	3 4 6	5 7 5	6 0 4	5 6 5	7 4 5	5 5 9							
14	5 2 6	2 5 1	0 8	6 8 6	3 2 8	0 4	8 8 3	4 6 3	1 4 6	5 1 6	3 3 4	5 0 6	5 9 7	5 2 0	7 4 1	5 1 1	9 2 7	5 3 6					
15	5 2 5	2 9 7		6 7 9	4 0 6		8 7 1	4 9 4	1 3 8	4 7 8	3 2 7	4 9 9	5 9 2	5 0 0	7 3 8	5 0 7							
16	5 4 3	2 5 2	0 4	7 0 1	3 6 8	0 1	8 9 4	5 0 9	1 4 8	5 9 5	3 3 1	5 4 6	5 9 2	5 1 0									
17	5 5 0	2 2 3		7 1 1	3 2 8		9 0 7	5 0 1	1 5 9	6 7 8	3 3 5	5 8 7	5 9 2	5 4 6	7 3 5	5 3 5							
18	5 4 8	2 2 1		7 0 6	3 5 0		9 0 2	5 0 3	1 5 6	6 3 3	3 3 6	5 5 5	5 9 4	5 4 7	7 3 7	5 3 9							
19	5 3 3	2 1 7	1 0	6 9 3	3 4 6	0 4	8 8 7	5 1 4	1 4 0	5 7 8	3 2 4	5 3 0											
21	5 2 5	2 5 1	0 7	6 8 5	3 8 0	0 2	8 7 3	5 5 5	1 3 2	5 0 1	3 2 0	5 0 6	5 8 3	5 1 0									
22	5 1 7	2 6 8	0 3	6 7 5	3 8 9	0 2	8 6 5	5 1 0	1 3 1	4 7 1	3 2 2	4 7 2	5 8 8	5 0 0	7 3 4	4 9 5	9 2 2	5 0 1					
23	5 2 2	2 8 4		6 7 9	3 9 1		8 7 2																

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF MAY 1951

DAY	SURFACE			1000 MBARS			900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS						
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW						
01	9 9 9	0 0 4	5 0 4	5 0 0	0 6 5	5 0 2 2	0 3 1	1 3 0	5 0 5 2	0 2 7	1 7 7	5 0 7 6	0 2 0	2 8 0	5 1 3 5	0 0 9	3 9 7	1 6 9							
05	0 0 5	0 0 5	9 0 5	0 0 5	0 9 1	0 0 3 5	0 4 4	1 3 7	0 0 3 2	0 4 1	1 8 6	0 0 0 5	0 2 3	2 9 3	5 0 3 4	0 1 7	4 1 2	1 3 0	0 0 6						
06	9 9 9	0 0 7	5 0 5	0 5 2	5 0 8	0 7 8	0 0 1 5	0 3 8	1 2 4	0 0 3 0	0 1 7	1 7 3	0 0 0 5	0 1 4	2 7 9	5 0 6 3	3 9 7	1 4 5							
07	0 0 5	0 0 5	0 0 5	3 0 5	0 5 4	0 0 5	0 9 1	5 0 5 5	0 4 2	1 3 7	0 0 1 9	0 5 2	1 8 6	5 0 1 1	0 2 9	2 9 1	5 0 4 3	4 1 1	1 1 6						
08	0 0 9	0 0 4	8 0 3	0 4 4	0 0 8	0 9 2	5 0 4 6	0 2 4	1 3 7	0 0 3 1	0 0 9	1 8 5	5 0 3 9	2 8 9	5 1 0 4	0 1 2	4 0 7	1 4 1	0 1 7						
09	9 9 7	0 0 5	3 0 4	3	5 0 2	0 8 3	5 0 1 7	0 3 4	1 2 9	5 0 4 5	0 3 0	1 7 6	5 0 7 5	0 2 4	2 7 9	5 1 0 6	0 2 1	3 9 7	1 5 4	0 1 6					
10	0 0 5	0 0 6	1 0 4	9	0 0 5	0 9 0	5 0 0 4	0 3 4	1 3 6	5 0 1 4	0 3 2	1 8 4	5 0 5 3	0 2 6	2 8 6	5 0 8 0	0 0 7	4 0 6	1 6 6	0 0 6					
12	9 9 6	0 0 7	2 0 5	6	5 0 3	0 8 5	0 0 2 6	0 4 8	1 3 1	5 0 0 6	0 4 2	1 7 9	5 0 3 1	0 3 1	2 8 4	5 0 9 1	0 1 7	4 0 1	1 6 0	0 1 4					
13	9 9 1	0 0 3	6 0 3	2	5 0 7	0 7 8	5 0 3 4	0 2 5	1 2 3	5 0 6 9	0 1 9	1 7 0	5 0 9 5	0 1 1	2 7 3	5 1 2 5	0 0 8	5 8 9	1 6 5	0 1 1					
15	9 5 7	0 0 0	7 0 4	1	5 3 5	0 5 0	5 0 4 0	0 2 8	0 9 5	5 0 6 8	0 2 4	1 4 2	5 0 4 4	0 2 0	2 4 4	5 1 5 6	0 1 2	3 5 8	2 1 6	0 0 8					
16	9 8 6	5 0 0	2 0 2	0	5 1 1	0 7 4	5 0 5 0	0 2 1	1 1 9	5 0 9 2	0 1 8	1 6 5	5 1 2 4	0 1 4	2 6 6	5 2 0 5	0 0 7	3 7 8	2 5 5	0 0 2					
17	9 9 0	0 0 5	1 0 4	8	5 0 7	0 7 7	5 0 1 5	0 3 3	1 2 3	5 0 4 3	0 2 5	1 7 0	5 0 7 7	0 1 9	2 7 3	5 1 1 8	0 1 8	3 8 9	1 7 4						
18	1 0 0	0 0 3	7 0 3	9	0 0 3	0 8 7	5 0 4 2	0 2 2	1 3 2	5 0 6 7	0 1 7	1 7 9	5 0 7 8	0 0 8	2 8 1	5 1 4 5	0 0 5	3 9 7	2 1 3	0 0 6					
19	1 0 1	0 0 1	6 0 3	0	0 1 2	0 9 5	5 0 7 4	0 1 5	1 3 9	5 1 0 7	0 1 4	1 8 6	5 1 4 1	0 1 4	2 8 6	5 1 7 6	0 2 2	4 0 1	2 0 3	0 0 4					
20	1 0 2	0 0 3	2 0 4	1	5 0 2	1 0 4	5 0 0 4	0 1 1	1 5 0	0 0 0 7	0 2 2	1 9 9	5 0 7 7	0 3 0	3 0 4	5 0 6 5	0 2 2	4 2 3	1 4 2	0 0 9					
21	1 0 2	0 0 2	1 0 3	7	5 0 2	1 0 4	0 0 1 8	0 0 9	1 5 0	0 0 2 0	1 9 9	5 0 1 0	0 2 5	3 0 4	5 0 7 5	0 2 1	4 2 2	1 3 8	0 1 1						
22	1 0 2	0 0 2	9 0 3	8	5 0 7	0 1 7	1 0 1	5 0 3 8	0 3 0	1 4 7	5 0 0 8	0 2 0	1 9 5	5 0 3 7	0 1 2	2 9 4	5 1 0 0	4 1 6	1 7 5						
24	0 2 1	0 0 3	0 3 0	9	0 1 7	1 0 2	0 0 0 8	0 2 5	1 4 8	5 0 0 3	0 1 4	1 7 3	5 0 2 1	0 3 4	2 7 8	5 0 6 9	0 2 5	3 9 6	1 4 0	0 1 5					
26	9 9 0	0 0 6	1 0 5	8	5 0 8	0 7 6	0 0 3 1	0 5 0	1 2 4	0 0 1 1	0 4 4	1 7 3	5 0 3 0	0 1 5	3 0 0	5 0 9 4	0 0 5	4 1 8	1 5 6						
27	9 7 9	0 0 6	2 0 5	5	5 1 7	0 6 9	0 0 2 6	0 4 4	1 1 5	0 0 0 6	0 2 4	1 6 2	5 0 2 3	0 1 8	2 6 8	5 1 0 0	0 0 6	3 8 5	1 8 2	0 1 0					
28	9 8 3	0 0 2	6 0 3	2	5 1 3	0 7 1	5 0 3 0	0 2 5	1 1 6	5 0 6 6	0 2 1	1 6 3	5 0 8 1	0 1 8	2 6 6	5 1 4 7	0 0 5	3 8 0	2 4 2						
29	9 9 1	0 0 4	6 0 4	5	5 0 7	0 7 9	5 0 0 4	0 4 2	1 2 4	5 0 4 7	0 3 0	1 7 1	5 0 7 0	0 2 7	2 7 4	5 1 3 6	0 1 4	3 9 1	1 7 9	0 1 0					
30	0 0 7	0 0 1	5 0 2	6	5 0 6	0 9 0	5 0 7 0	0 2 7	1 3 4	5 0 6 1	0 1 6	1 8 2	5 0 0 6	0 1 9	2 8 8	5 0 5 4	0 0 8	4 0 7	1 5 5	0 0 8					
31	0 1 5	0 0 4	5 0 2	6	5 0 6	0 9 8	5 0 3 9	0 4 3	1 4 4	5 0 1 6	0 2 7	1 9 3	5 0 1 0	0 2 5	2 9 7	5 0 8 6	0 1 8	4 1 5	1 4 4	0 1 3					
DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS			60 MILLIBARS			
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW				
01	5 3 1	2 7 5	0 4	6 8 8	3 9 2	0 2	8 7 8	5 6 2	1 3 7	5 2 3	3 2 3	5 2 6	5 8 4	5 4 0	7 2 7	5 3 1									
05	5 4 8	2 3 5	0 3	7 0 8	3 7 1	0 2	9 0 2	5 0 6	1 5 9	5 8 6	3 4 2	5 7 4							9 1 5	5 8 1					
06	5 3 3	2 3 4		6 9 3	3 6 1		8 8 7	4 9 8	1 4 8	5 2 0	3 2 3	5 2 4	5 9 3	5 6 3	7 3 4	5 8 0		9 2 0	5 7 9						
07	5 4 8	2 1 9		7 0 8	3 3 9		9 0 3	4 7 8	1 6 2	6 3 5	3 3 9	5 7 3	5 9 6	7 3 8	5 5 9			9 1 9	5 8 9						
08	5 4 5	2 3 2	0 9	7 0 2	3 5 1	0 3	8 9 7	4 3 8	1 5 3	6 2 4	3 3 5	5 3 9	5 9 5	5 4 5	7 3 7	5 6 1									
09	5 3 5	2 2 7	0 9	6 9 2	3 5 5	0 3	8 8 5	4 8 5	1 4 2	5 2 2	3 2 7	5 4 1	5 8 6	5 5 3											
10	5 4 0	2 5 5		6 9 9	3 7 3	0 2	8 8 9	4 9 1	1 4 6	5 9 0	3 2 8	5 5 1	5 8 7	5 5 1	7 2 9	5 5 8		9 1 2	5 7 1						
12	5 3 6	2 6 5	0 7	6 9 4	3 7 4	0 3	8 8 5	5 2 9	1 3 7	6 3 2	3 1 6	5 7 3	5 7 1	5 6 2	7 1 3	5 6 4									
13	5 2 4	2 3 0	0 9	6 8 4	3 3 6	0 4	8 7 9	4 9 4																	
15	4 9 5	2 9 5	0 4	6 5 5	4 2 3	0 1	8 4 5	4 9 3	1 1 0	4 9 5	2 9 8	5 0 8													
16	5 0 9	3 0 0		6 6 5	3 9 1	0 1	8 5 9	4 6 7	1 2 9	4 6 0	3 1 9	4 7 1	5 8 5	5 0 4	7 2 9	5 3 5									
17	5 2 4	2 5 2		6 8 2	3 7 2		8 7 5	5 1 7	1 3 1	5 6 4	3 1 4	5 4 9	5 7 3	5 5 6	7 1 5	5 5 8		8 9 7	5 8 5						
18	5 2 8	3 0 2	0 4	6 8 4	3 8 8	0 2	8 7 5	5 4 2	1 3 1	5 4 9	3 1 6	5 2 7	5 7 6	5 5 2	7 1 8	5 6 3									
19	5 3 4	2 7 8	0 3	6 9 0	4 0 8		8 8 1	5 2 0	1 4 0	5 3 3	3 2 5	5 3 3													
20	5 5 9	2 3 4	0 3	7 1 8	3 5 7		9 1 1	5 2 0	1 6 6	6 3 0	3 4 9	5 7 8	6 0 4	5 8 8	7 4 4	5 9 0		9 2 3	5 9 6						
21	5 5 8	2 2 8	0 3	7 1 8	3 4 7		9 1 2	5 0 9	1 6 5	6 9 0	3 4 1	5 9 2	5 9 5	5 7 8	7 3 5	5 8 0		9 1 6	5 7 3						
22	5 4 9	2 7 3		7 0 6	3 8 6		8 9 8	5 1 0	1 5 7	5 7 8	3 3 8	5 7 6	5 9 5	5 7 0	7 3 5	5 8 0									
24	5 5 3	2 5 5		7 1 1	3 8 2		9 0 2	5 3 2	1 5 5	6 3 6	3 3 2	6 0 5	5 8 6	5 7 6	7 0 7	5 9 2		8 8 7	5 8 7						
25	5 3 3	2 3 0	0 4	6 9 1	3 6 0	0 2	8 8 5	5 1 4	1 3 6	6 7 4	3 1 2	6 0 0	5 6 7	5 8 7	7 0 7	5 9 2									
27	5 1 9	2 5 6	0 7	6 7 6	3 8 0	0 2	8 6 6	5 6 9	1 1 8	5 9 2	2 9 7	5 6 6	5 5 6	5 7 0											
28	5 1 0	3 6 1	0 1	6 6 1	4 6 3		8 4 6	5 3 3	1 0 9	5 1 9	2 9 5	5 3 3	5 5 4	5 5 3	6 9 6	5 6 5		8 7 8	5 8 5						
29	5 2 3	2 9 2	0 5	6 8 0	3 9 9	0 1	8 7 0	5 2 6	1 2 9	5 3 1	3 1 5	5 1 3	5 7 7	5 3 2											
30	5 4 1	2 6 2	0 6	6 9 9	3 7 4	0 1	8 9 1	5 2 8	1 4 5	5 6 8	3 2 8	5 2 2	5 8 8	5 6 7	7 2 9	5 6 4		9 1 0	5 9 9						
31	5 5 1	2 4 2	0 3	7 1 0	3 5 5		9 0 2	5 2 2	1 5 7	5 9 0	3 4 0	5 1 9	5 9												

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF JUNE 1951

DAY	SURFACE			1000 MBARS		900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS			
	PPP	TTT	WWW	HHH.	HHH	TTT	WWW	HHH	TTT	WWW											
01	0 1 1	0 0 5	4 0 5	5 5	0 0 9	0 9 5	0 0 1 6	0 4 8	1 4 1	0 0 0 4	0 4 4	1 8 5	5 0 1 3	0 3 7	2 9 4	5 0 7 2	0 1 1	4 1 3	1 4 0		
02	0 0 6	0 0 4	9 0 3	7	0 0 5	0 9 0	0 0 3 6	0 2 7	1 3 5	0 0 7 4	0 2 2	1 8 2	5 0 6 6	0 1 6	2 8 6	5 0 8 9	4 0 3	1 6 1			
03	0 0 5	5 0 0	4 0 2	7	0 0 5	0 8 8	5 0 7 0	0 1 7	1 3 2	0 1 0 6	0 1 5	1 7 8	5 1 4 6	0 1 2	2 7 9	5 1 7 0	0 0 9	3 9 3	2 2 7 0 0 3		
04	0 0 8	0 0 3	1 0 3	7	0 0 7	0 9 1	5 0 1 6	0 3 2	1 3 7	0 0 3 1	0 2 9	1 8 5	5 0 6 8	0 2 4	2 8 7	5 1 1 4	0 1 3	4 0 4	1 7 2		
05	0 1 3	0 0 4	4 0 4	9	0 1 1	0 9 6	0 0 3 9	0 4 5	1 4 3	0 0 0 2	0 3 4	1 9 1	5 0 3 3	0 2 5	2 9 6	5 0 7 0	0 2 1	4 1 4	1 5 5 0 0 6		
06	0 0 5	0 0 5	4 0 5	6	0 0 5	0 9 0	5 0 0 2	0 4 0	1 3 5	0 0 2 9	0 5 2	1 8 3	5 0 5 8	0 2 6	2 9 7	5 0 9 6	0 1 2	4 0 4	1 8 1 0 0 5		
07	0 0 4	0 0 5	9 0 4	9	0 0 4	0 8 9	5 0 0 1	0 3 9	1 3 5	0 0 1 1	0 4 0	1 8 4	5 0 1 1	0 4 1	2 9 0	5 0 4 2	0 2 8	4 0 9	1 1 1		
08	0 1 2	0 0 4	1 0 4	5	0 1 0	0 9 5	5 0 0 6	0 3 7	1 4 1	0 0 2 2	0 2 5	1 9 1	5 0 1 6	0 1 1	2 9 7	5 0 5 0	0 1 3	4 1 6	1 4 6 0 0 9		
09	0 0 6	2 0 5	9	5 0 0	0 0 2 1	0 4 7	1 3 1	5 0 1 3	0 3 9	1 7 6	5 0 2 9	0 3 5	2 8 5	5 0 7 5	0 2 3	4 0 2	1 5 9 0 0 9				
11	9 9 8	0 0 0	2 0 1	8	5 0 1	0 8 4	5 0 6 9	0 1 5	1 2 6	0 1 2	0 1 1	1 7 5	5 1 4 6	0 0 8	2 7 4	5 2 2 6	0 0 2	3 8 7	2 0 3 0 0 5		
12	9 9 7	0 0 2	5 0 3	2	5 0 2	0 8 2	5 0 4 1	0 1 9	1 2 7	0 0 8 2	0 1 8	1 7 4	5 1 1 3	0 1 5	2 7 5	5 1 7 1	0 0 4	3 9 0	2 0 6		
13	0 1 0	0 0 5	4 0 5	0	0 0 9	0 9 4	0 0 5 9	0 2 4	1 4 1	0 0 4 6	0 1 4	1 9 0	5 0 2 8	0 2 4	2 9 7	5 0 5 9	0 2 0	4 1 5	1 4 9 0 1 3		
14	0 0 1	0 0 2	5 0 3	5	0 0 1	0 8 6	5 0 4 3	0 2 6	1 3 1	0 0 5 2	0 2 5	1 7 8	5 0 6 2	0 2 7	2 8 1	5 1 1 6	0 1 7	3 9 7	1 9 2 0 1 1		
15	0 2 5	0 0 1	0 0 3	0	0 2 0	1 0 5	5 0 7 9	0 1 9	1 4 8	0 0 4 9	0 1 8	1 9 6	5 0 4 9	0 0 0	3 0 0	5 0 7 9	0	4 1 9	1 2 7		
16	0 2 4	0 0 1	7 0 3	3	0 2 4	1 0 6	0 0 0 9	1 5 3	5 0 0 5	0 1 8	2 0 2	5 0 2 5	0 0 9	3 0 7	5 0 6 4	0 0 9	4 2 6	1 3 0 0 0 6			
17	0 2 1	0 0 0	2 0 3	3	0 1 7	1 0 1	0 0 0 2	0 1 5	1 4 7	0 0 1 4	1 9 5	5 0 1 6	0 0 8	3 0 0	5 0 9 2	0 1 4	4 1 7	1 8 2 0 0 9			
18	0 0 2	0 0 4	2 0 4	7	0 0 2	0 8 7	5 0 2 9	0 3 2	1 3 2	0 0 3 1	0 3 5	1 8 0	5 0 5 2	0 3 2	2 8 3	5 1 0 9	0 2 2	4 0 0	1 8 1 0 1 2		
19	0 0 7	0 0 4	3 0 4	0	0 0 6	0 9 1	5 0 0 5	0 3 6	1 3 6	0 0 3 5	0 2 7	1 8 4	5 0 6 5	0 2 5	2 8 8	5 0 9 5	0	4 0 5	1 6 7		
20	0 0 9	0 0 2	5 0 3	5	0 0 8	0 9 1	5 0 3 8	0 2 0	1 3 6	0 0 5 6	0 1 4	1 8 4	5 0 7 8	0 1 0	2 8 6	5 1 6 7	0 1 2	4 0 0	2 2 2 0 0 3		
21	9 9 5	0 0 2	5 0 3	6	5 0 5	0 8 1	5 0 4 1	0 2 5	1 2 5	0 0 7 4	0 1 9	1 7 2	5 1 0 5	0 1 8	2 7 4	5 1 7 0	0 1 2	3 8 8	2 4 0 0 0 7		
22	9 9 2	0 0 4	3 0 4	4	5 0 6	0 7 9	5 0 2 4	0 3 1	1 2 4	0 0 2 5	0 5 4	1 7 2	5 0 3 7	0 2 5	2 7 6	5 1 0 6	0 1 3	3 9 4	1 4 3 0 0 6		
23	9 9 4	0 0 3	0 0 3	0	5 0 8	5 0 5	5 0 4 4	0 1 5	1 2 1	0 0 5 0	0 1 1	1 6 7	5 1 1 4	0 0 8	2 6 8	5 1 7 2	0 0 4	3 8 2	2 6 1		
24	9 9 8	0 0 4	2 0 3	8	5 0 1	0 8 3	5 0 3 4	0 2 5	1 2 8	0 0 7 2	0 2 2	1 7 5	5 1 1 1	0 1 9	2 7 8	5 1 2 8	0 1 6	3 9 5	1 7 5 0 0 5		
25	0 1 5	5 0 1	0 0 1	9	0 1 1	0 9 4	5 0 9 3	0 1 6	1 3 7	0 1 2 5	0 1 3	1 8 4	5 0 9 5	0	2 8 7	5 1 1 7	0	4 0 3	1 8 4 0 0 6		
26	0 1 7	0 0 4	4 0 4	5	0 1 4	0 9 9	5 0 1 7	0 3 3	1 4 4	0 0 3 0	0 2 9	1 9 2	5 0 4 9	0	2 9 7	5 0 9 0	0	4 1 4	1 7 1		
27	0 1 3	0 0 3	8 0 5	0	0 1 1	0 9 6	5 0 0 4	0 4 1	1 4 1	0 0 2 4	0 3 7	1 8 9	5 0 4 0	0 1 6	2 9 3	5 1 0 6	0 1 2	4 1 0	1 8 8 0 0 6		
28	0 2 1	0 0 4	1 0 4	2	0 1 7	1 0 2	5 0 3 5	0 2 8	1 4 7	0 0 5 7	0 0 9	1 9 4	5 0 6 1	0 1 2	2 9 8	5 1 0 9	0 1 4	4 1 5	1 7 5 0 0 8		
29	0 0 9	0 0 5	4 0 4	3	0 0 8	0 9 3	5 0 0 5	0 5 9	1 3 9	0 0 2 8	0 3 4	1 8 7	5 0 1 3	0	2 9 3	5 0 4 2	0	4 1 3	1 4 4		
30	0 2 1	0 0 1	2 0 2	6	0 1 7	1 0 1	5 0 6 9	0 2 1	1 4 5	0 0 9 7	0 1 9	1 9 1	5 1 3 0	0 1 5	2 9 2	5 1 5 0	0 1 1	4 0 8	2 0 9 0 0 9		
DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS		
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW
01	5 4 8	2 3 5	0 3	7 0 7	3 5 6	0 3	9 0 0	5 1 4	1 5 2	6 5 5	3 3 1	5 5 1	5 8 8	5 7 4	7 2 9	5 7 4	9 0 9	5 9 8			
02	5 3 9	2 4 8	0 3	6 9 7	3 7 0	0 1	8 9 0	5 0 8	1 4 4	5 7 1	3 2 8	5 2 9	5 8 9	5 2 1	7 3 3	5 5 5	9 1 5	5 6 1			
03	5 2 4	3 1 5		6 7 9	3 9 8	0 1															
04	5 3 8	2 7 1		6 9 5	3 9 1																
05	5 4 9	2 5 1		7 0 7	3 6 9																
06	5 3 8	2 6 1	0 7	6 9 6	3 8 0	0 2															
07	5 4 6	2 1 5	0 5	7 0 8	3 2 5																
08	5 5 1	2 3 8	0 8	7 1 0	3 4 9	0 3															
09	5 3 7	2 4 4	0 3	6 9 6	3 5 4	0 3															
11	5 2 0	2 8 2	0 4	6 7 5	3 9 0	0 1															
12	5 2 3	2 8 3		6 7 9	4 0 1																
13	5 5 1	2 4 0	0 7	7 1 0	3 5 7	0 3															
14	5 3 0	2 6 6		6 8 8	3 6 5																
15	5 5 5	2 2 7		7 1 4	3 5 9																
16	5 6 1	2 4 3	0 3	7 2 0	3 4 9																
17	5 5 1	2 6 8	0 6	7 0 8	3 8 8	0 1															
18	5 3 4	2 8 1	0 5	6 9 1	3 8 3	0 2															
19	5 3 9	2 6 9	0 3	6 9 5	3 8 4																
20	5 3 1	3 1 3	0 3	6 8 6	4 2 9	0 1															
21	5 1 9	3 2 7	0 4	6 7 2	4 4 0																
22	5 3 0	2 4 4		6 9 0	3 2 7																
23	5 1 2	3 1 1		6 6 7	4 1 9																
24	5 2 8	2 8 0	0 4	6 8 5	3 9 0	0 2															
25	5 3 6	2 9 0	0 2	6 9 2	4 1 1																
26	5 4 7	2 8 2		7 0 3	4 1 2																
27	5 4 2	3 0 3	0 2	6 9 8	3 9 6																
28	5 4 9	2 6 7	0 5	7 0 6	3 8 3	0 1															
29	5 4 8	2 4 4	0 3	7 0 6	3 6 9																
30	5 4 0	2 8 5	0 3	6 9 7	3 8 5																

**RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF JULY 1951**

DAY	SURFACE			1000. MBS		900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS		
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	
01	0 2 2	0 0 5	6 0 4 5	0 1 8	1 0 5	0 0 1 6	0 3 0	1 4 9	5 0 1 5	0 2 3	1 9 7	5 0 0 4	0 1 0	3 0 3	5 0 9 1	4 2 0	1 7 5			
02	0 2 1	0 0 4	2 0 4 0	0 1 7	1 0 2	5 0 1 8	1 4 8	5 0 4 4	0 2 8	1 9 5	5 0 4 6	0 1 6	2 9 9	5 0 9 0	4 1 7	1 7 8				
03	0 0 9	0 0 6	4 0 5 4	0 0 8	0 9 4	0 0 2 1	0 4 4	1 4 0	0 0 1 8	0 5 0	1 8 9	5 0 1 7	0 2 2	2 9 4	5 0 8 1	0 1 7	1 7 7	U U S		
04	9 8 1	0 0 6	8 0 5 7	5 1 5	0 7 1	0 0 4 8	0 5 7	1 1 7	0 0 2 9	0 5 3	1 6 6	5 0 0 1	0 4 5	2 7 2	5 0 6 9	0 3 1	3 9 1	1 3 6	0 1 7	
05	9 9 5	0 0 0	9 0 2 7	5 0 5	0 7 9	5 0 6 2	0 2 5	1 2 3	5 1 0 0	0 1 8	1 6 4	5 1 3 7	0 1 4	2 6 9	5 2 1 5	0 0 8	3 8 1	2 7 5	0 0 5	
06	0 0 8	0 0 1	8 0 3 2	0 0 7	0 9 0	5 0 6 6	0 2 1	1 3 5	5 1 0 0	0 1 8	1 8 2	5 0 6 6	2 8 5	5 1 1 1	0 1 1	4 0 2	1 8 3	0 0 9		
07	0 1 1	0 0 2	9 0 4 1	0 0 9	0 9 4	5 0 1 2	1 3 9	5 0 1 9	0 2 7	1 8 7	5 0 6 1	0 1 9	2 9 1	5 1 2 9	0 1 3	4 0 7	1 9 5	0 0 4		
08	0 0 7	0 0 4	7 0 5 3	0 0 6	0 9 1	5 0 1 2	1 3 7	5 0 4 3	0 5 2	1 8 5	5 0 4 1	0 2 7	2 8 8	5 1 1 1	0 1 1	4 0 5	1 9 4	0 0 9		
09	9 9 8	0 0 4	4 0 4 6	5 0 1	0 8 4	5 0 0 8	1 3 0	5 0 3 0	0 3 4	1 7 7	5 0 5 5	0 3 0	2 8 1	5 1 2 5	0 1 8	3 9 6	2 1 0	0 0 9		
10	9 9 7	0 0 0	6 0 2 9	5 0 2	0 8 2	5 0 6 2	0 2 4	1 2 6	5 0 9 1	0 2 0	1 7 3	5 1 2 0	0 1 7	2 7 3	5 2 0 4	0 0 8	3 8 5	3 0 0	0 0 4	
11	0 0 5	5 0 0	1 0 1 8	5 0 5	0 8 8	5 0 7 5	0 1 5	1 3 2	5 1 1 9	0 1 5	1 7 8	5 1 4 3	0 1 3	2 7 8	5 1 7 4	3 9 2	2 3 7			
12	0 0 1	0 0 4	6 0 3 6	5 0 1	0 8 6	5 0 1 7	0 2 9	1 3 2	5 0 1 5	0 0 8	1 8 0	5 0 4 8	0 0 8	2 8 4	5 0 9 6	0 1 5	4 0 2	1 7 0	0 0 9	
13	9 9 7	0 0 3	6 0 4 2	5 0 2	0 8 3	5 0 1 5	1 2 8	5 0 3 3	0 3 0	1 7 6	5 0 5 4	0 2 0	2 7 4	5 1 1 6	0 0 7	3 9 6	1 9 1	0 0 5		
14	9 9 5	0 0 4	6 0 4 1	5 0 5	0 8 0	5 0 1 2	0 3 7	1 2 5	5 0 4 6	0 2 7	1 7 3	5 0 7 5	0 2 3	2 7 5	5 1 3 0	0 0 8	3 9 1	1 9 6	0 0 8	
15	9 9 9	0 0 5	3 0 5 6	5 0 9	0 8 6	5 0 4 8	0 5 7	1 3 2	5 0 0 8	0 4 4	1 8 1	5 0 0 3	0 3 1	2 8 6	5 0 7 5	0 1 8	4 0 5	1 5 7	0 1 5	
16	9 7 5	0 0 6	0 0 5 9	5 2 2	0 6 4	0 0 4 4	0 5 8	1 1 1	5 0 1 9	0 5 2	1 5 9	5 0 1 0	0 4 5	2 6 5	5 0 8 4	0 2 7	3 8 2	1 7 5	0 1 4	
17	9 9 4	0 0 1	0 0 3 0	5 0 4	0 8 4	5 0 1	0 5 5	0 2 4	1 2 5	5 0 5 9	0 2 4	1 7 3	5 0 7 6	0 2 1	2 7 6	5 1 0 4	0 1 1	3 9 3	1 7 7	0 0 9
18	9 9 5	0 0 5	4 0 5 1	5 0 3	0 8 2	0 0 2 3	0 4 7	1 2 8	5 0 0 7	0 4 1	1 7 7	5 0 1 8	0 4 0	2 8 2	5 0 6 9	0 1 8	4 0 0	1 5 3	0 0 9	
19	9 9 8	0 0 2	9 0 4 3	5 0 1	0 8 4	5 0 1 2	0 3 5	1 2 9	5 0 4 2	0 2 8	1 7 7	5 0 6 4	0 1 9	2 8 0	5 1 3 2	0 1 7	3 9 6	1 7 8	0 1 4	
20	0 1 5	0 0 0	9 0 2 7	5 0 1	0 9 4	5 0 4 8	0 4 7	1 3 9	5 0 6 9	1 8 6	5 0 9 3	2 8 9	5 1 2 0	4 0 5	1 8 3					
21	9 9 5	0 0 3	4 0 4 7	5 0 3	0 8 2	0 0 0 7	0 4 3	1 2 7	5 0 1 8	0 3 9	1 7 5	5 0 4 4	0 2 9	2 7 9	5 0 9 7	0 0 7	3 9 7	1 7 1		
22	9 6 3	0 0 5	1 0 5 4	5 3 0	0 5 6	0 0 2 4	0 4 5	1 0 2	5 0 1 1	0 3 8	1 5 0	5 0 3 5	0 3 6	2 5 4	5 0 9 5	0 2 4	3 7 1	1 7 7	0 1 2	
23	9 9 2	5 0 1	0 0 2 9	5 0 6	0 7 9	5 0 7 6	0 2 0	1 2 4	5 1 1 0	0 1 7	1 7 0	5 0 9 1	-	2 7 3	5 1 3 7	3 8 9	1 9 5			
24	9 9 4	0 0 2	5 0 3 5	5 0 4	0 8 0	5 0 2 3	0 2 0	1 2 6	5 0 5 5	0 0 9	1 7 3	5 0 6 9	0 0 1	2 7 6	5 1 4 1	0 0 7	3 9 1	2 2 7		
25	9 8 3	0 0 4	9 0 4 8	5 1 5	0 7 2	0 0 0 3	0 0 0	1 1 6	5 0 1 1	0 3 9	1 7 5	5 0 2 1	0 3 7	2 7 7	5 0 7 2	0 1 8	3 9 6	1 5 8	0 1 1	
26	9 9 9	0 0 4	7 0 5 1	5 0 8	0 7 8	5 0 5 3	1 2 4	0 0 0 0	0 4 5	1 7 5	5 0 3 0	0 3 2	2 7 8	5 0 8 8	0 2 4	3 9 6	1 6 0	0 1 5		
27	9 9 5	0 0 5	6 0 6	5 0 5	0 8 0	5 0 0 0	0 3 4	1 2 5	5 0 1 9	0 2 2	1 7 4	5 0 3 0	0 3 2	2 7 8	5 0 8 8	0 2 4	3 9 6	1 6 0	0 1 1	
28	9 8 1	0 0 5	4 0 5 0	5 1 5	0 7 1	0 0 2 1	0 4 6	1 1 7	5 0 0 6	0 4 0	1 6 5	5 0 3 0	0 3 7	2 6 4	5 1 0 7	0 2 1	3 8 6	1 8 7	0 1 1	
29	9 8 9	0 0 0	8 0 3 0	5 0 8	0 7 6	5 0 4 6	0 2 4	1 2 1	5 0 3 4	0 1 9	1 6 9	5 0 4 9	0 2 2	2 7 3	5 1 2 1	0 1 7	3 8 9	1 9 1	0 1 2	
30	9 7 0	0 0 3	0 0 4 1	5 2 4	0 6 1	5 0 1 1	0 3 3	1 0 6	5 0 5 0	0 2 4	1 5 3	5 0 9 2	0 2 0	2 5 5	5 1 5 9	0 0 9	3 7 0	2 5 2	0 0 3	
31	0 0 6	5 0 0	8 0 2 1	5 0 5	0 0 5	5 0 9 8	0 1 5	1 3 2	5 0 8 5	0 0 5	1 7 9	5 1 2 0	2 8 1	5 1 4 2	0 0 5	3 9 6	2 0 6	0 0 5		

DAY	500. MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS			60 MILLIBARS		
	HHH	TTT	WWW	HHH	TTT	WW	HHH	TTT	WWW	HHH	TTT	WWW												
01	5 5 4	2 7 2		7 1 1	3 8 9		9 0 3	5 1 9	1 5 3	7 2 8	3 2 1	6 8 8	5 6 3	6 9 0	6 9 7	6 8 8								
02	5 4 9	3 0 9		7 0 3	4 5 0		7 0 5	5 6 0		9 9 7	5 2 4	1 4 8	6 4 7	3 2 5	6 2 3	5 7 4	6 3 6	7 1 0	6 6 6	8 8 3	6 7 5			
03	5 4 6	2 5 7					7 0 5	5 6 0		8 7 9	4 9 5	1 3 6	5 8 5	3 1 7	5 7 4	5 7 1	6 0 1							
04	5 2 6	2 3 5	0 8	6 8 5	5 5 9	0 3		8 7 9	4 9 5	8 5 3	5 1 3	1 1 7	4 9 0	3 0 6	4 9 3	5 6 9	5 2 9	7 1 1	5 6 8					
05	5 1 1	3 3 5	0 3	6 6 4	4 3 6					8 5 3	5 1 3	1 1 7	4 9 0	3 0 6	4 9 3	5 6 9	5 2 9	7 1 1	5 6 8					
06	5 3 5	2 8 3	0 4	6 9 1	4 1 0	0 1				8 8 1	5 3 4	1 3 5	5 9 8	3 1 8	5 3 4	5 6 7	5 4 3							
07	5 3 9	2 9 1	0 3	6 9 5	4 0 9	0 1				8 8 4	5 6 1	1 4 1	5 3 0	3 2 7	5 2 3	5 8 9	5 1 1	7 3 3	5 3 8					
08	5 5 7	3 1 6	0 4	6 9 2	4 1 0	0 1				8 8 0	5 6 6	1 3 7	5 5 6	3 2 3	5 1 1	5 8 6	5 1 5	7 3 1	5 2 8	9 1 5	5 6 1			
09	5 2 9	3 0 0	0 4	6 8 5	3 9 4	0 2				8 7 5	5 4 1	1 3 1	5 5 3	3 1 6	5 1 0	5 7 9	5 1 4							
10	5 1 3	3 9 6	0 1	6 6 3	4 6 7					8 5 0	5 5 6	1 0 7	5 4 2	2 9 3	5 1 4	5 5 6	5 1 5	7 0 1	5 3 0					
11	5 2 2	3 3 4		6 7 5	4 4 9																			
12	5 3 6	2 6 5	0 5	5 9 3	3 9 2	0 2				8 8 3	5 4 3	1 3 5	6 0 9	3 1 5	6 0 0	5 6 9	5 8 3	7 0 8	5 9 6	8 8 7	6 1 5			
13	5 2 9	2 8 6		6 8 4	4 0 7					8 7 3	5 6 3	1 2 1	6 8 6	2 9 6	6 2 8	5 4 6	6 2 3	6 8 5	6 1 0					
14	5 2 5	2 8 3	0 4	6 8 0	4 1 0	0 1				8 7 0	5 3 6	1 2 3	6 3 5	3 0 1	5 9 4	5 5 4	6 0 2	6 9 2	6 2 4					
15	5 4 0	2 4 5	0 8	6 9 9	3 6 1	0 1				8 9 3	4 9 9	1 4 5	6 9 7	3 1 7	6 6 0	5 6 2	6 7 2	6 9 7	6 6 3	8 7 1	6 4 9			
16	5 1 7	2 5 5																						

**RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF AUGUST 1951**

DAY	SURFACE			1000 MBS.			900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS							
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW				
01	010	002	603	503	009	093	5010	035	138	5033	032	186	5040	034	291	5100	023	407	185	010						
02	013	004	605	011	096	041	5019	142	5035	190	5035	032	5095	5093	020	412	165	004								
03	005	005	605	005	091	044	5055	137	0037	059	186	5008	051	292	5070	031	411	144	010							
04	999	004	604	500	085	024	5049	132	0018	181	5005	010	286	5071	008	405	154									
05	999	000	604	141	500	085	0012	047	131	5004	043	179	5021	040	284	5078	037	402	145	018						
06	001	002	604	041	001	086	5014	035	131	5031	032	179	5047	029	284	5084	013	402	157							
07	988	004	604	46	509	076	0005	037	122	5020	028	170	5060	023	273	5116	019	390	194	011						
08	982	002	203	532	514	070	5026	024	115	5062	016	163	5080	009	265	5134	007	381	200	009						
09	975	003	204	9	520	065	5007	040	111	5018	063	159	5057	026	262	5119	007	378	204							
10	963	003	905	53	520	055	0022	050	101	5009	043	150	5034	029	254	5101	007	371	192	010						
11	64	000	003	529	529	055	022	029	100	5065	025	147	5044	022	251	5090	024	359	164	014						
12	985	506	020	512	071	545	017	115	5130	014	160	5165	011	261	5146	014	376	227	005							
13	998	500	9030	501	084	5076	023	129	5070	027	176	5057	025	279	5135	011	394	220	003							
14	001	500	2030	001	085	5063	024	129	5065	026	177	5084	023	279	5144	015	394	204	003							
15	011	001	1035	009	093	5021	033	139	5045	024	186	5054	020	289	5124	006	405	211								
16	018	002	404	2	015	100	0006	039	146	5010	194	5026	299	5101	015	190	010									
17	013	003	1045	011	096	0012	041	142	5013	032	190	5052	026	294	5074	007	412	167								
18	999	005	1045	501	084	5005	038	130	5028	035	177	5049	031	281	5104	016	398	185	012							
19	005	002	4028	003	087	5043	019	132	5083	017	179	5087	007	281	5130	011	397	200	004							
20	005	005	0043	005	090	5019	025	135	5064	021	182	5036	012	286	5092	040	193	005								
21	014	002	5026	012	096	5020	029	141	5032	031	184	5053	027	292	5134	018	408	174								
22	014	004	7052	012	097	0004	040	143	5028	031	191	5059	027	294	5101	008	412	190								
23	012	003	9044	010	095	5013	033	141	5042	028	189	5016	009	293	5079	011	411	161	007							
24	018	006	6043	015	100	5021	030	145	5017	021	194	5009	009	299	5076	017	417	160								
25	018	003	7048	015	100	5033	029	145	5006	010	193	5024	009	298	5051	015	415	184								
26	006	004	7053	005	091	5003	036	135	5033	032	184	5042	007	289	5030	017	407	164	012							
27	940	005	6055	508	078	0007	040	124	5025	033	171	5039	027	275	5098	010	392	187	010							
28	945	001	9028	512	073	5041	021	115	5074	016	165	5112	011	266	5187	004	379	265	004							
29	944	003	0039	504	081	5018	031	126	5051	025	174	5086	018	276	5161	012	390	245	007							
30	952	500	5056	514	070	5056	025	114	5093	018	161	5129	014	261	5204	008	373	300	004							
31	988	001	6034	510	075	5040	025	120	5071	020	167	5102	016	269	5184	008	382	277	002							
DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS			60 MILLIBARS				
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW		
01	541	257	03	699	383	R90	546	137	725	313	620	565	592	705	585	887	560									
02	546	275	02	703	376	01	894	537	144	673	321	590	575	593	715	593	894	621								
03	547	228	09	707	362	03	899	533	149	633	329	601	582	588	722	591										
04	540	251		699	356	R93	893	499	148	608	327	596	580	596	719	604	897	612								
05	538	233	03	697	355	R91	506	141	655	317	638	565	553													
06	536	262	04	694	363	01	887	522	140	667	318	610	572	584	712	580	893	585								
07	523	293	05	677	421	02	865	571	114	634	292	614	546	579	686	589	865	604								
08	513	304	02	657	443	R53	603	101	633	279	601	532	603	670	618	848	618									
09	511	299		665	437	R51	612	092	717	263	610	508	645	645	625	821	630									
10	503	293	05	658	420	01	845	595	090	680	263	647	512	648												
11	503	253	07	660	417	01	847	607	098	582	277	615	528	604												
12	507	325	02	650	457	R45	587	100	578	281	578	536	590	675	602											
13	525	325		679	445	R65	574	120	572	302	570	558	574	699	590											
14	526	310		680	420	R68	568	121	570	303	555	560	582	700	592	879	610									
15	537	296		699	411	R81	555	132	617	312	586	567	583	707	601											
16	548	284	03	703	408	R91	582	135	735	309	642	557	614	696	601											
17	546	273		702	393	01	893	540	141	740	312	682	557	647												
18	532	276	06	689	388	02	878	563	127	655	305	605	558	589	697	608										
19	529	303	02	684	419	R72	561	125	610	306	569	563	564	704	591	894	598									
20	537	296	02	692	404	01	881	559	131	684	305	643	557	596	697	581	877	581								
21	542	267	03	699	394	R80	544	138	713	310	659	555	647	691	643	867	630									
22	545	287		701	411	01	889	562	139	696	311	674	557	671	691	677										
23	546	250	03	704	376	02	895	551	143	736	313	674	558	640	694	662	868	652								
24	551	271		708	390	R99	535	146	727	318	670	562	681	695	699	667	693									
25	548	275		705	401	R94	563	141	679	315	634	566	612	705	610											
26	541	272	05	697	403	02	887	547	1																	

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF SEPTEMBER 1951

DAY	SURFACE			1000 MBS			900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS					
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW					
01	010	004	3037	009	093	5031	029	139	5034	027	186	5040	021	290	5095	011	408	167						
02	005	005	9053	005	900	0004	040	136	5022	033	184	5046	026	288	5075	011	407	140						
03	982	007	3061	514	072	0030	051	118	0002	043	166	5018	040	271	5071	032	390	146	017					
04	004	501	0030	004	087	5072	017	131	5161	012	177	5153	010	277	5232	005	387	304	003					
05	017	002	4026	014	098	5065	024	142	5099	021	189	5127	009	289	5181	005	403	234	005					
06	004	001	5029	004	087	5060	022	132	5095	019	179	5086	007	281	5154	035	396	235						
07	006	005	5046	005	91	0005	041	137	5006	040	185	5034	035	290	5087	026	408	147	017					
08	996	006	5060	503	083	0007	038	129	5020	038	176	5043	005	280	5094	011	397	139	005					
09	005	004	0036	005	089	5040	023	134	5074	020	181	5110	018	282	5173	012	396	254	006					
10	004	003	0025	004	088	5038	020	133	5066	015	180	5094	028	282	5177	017	395	253						
11	005	005	7050	005	900	0000	039	136	5003	026	185	5005	029	5064	012	409	120	018						
12	997	002	7027	506	083	5043	016	127	5081	010	174	5122	008	274	5210	005	387	230	004					
13	021	003	2025	017	101	5051	020	145	5091	016	192	5124	010	294	5130	009	411	197	005					
14	005	005	7053	005	900	5008	036	135	5022	033	183	5046	017	288	5088	007	406	145	017					
15	995	003	4029	503	081	5040	021	125	5081	020	172	5118	010	273	5190	010	386	265						
16	009	002	1025	008	091	5053	015	136	5074	018	183	5109	004	284	5189	005	397	278						
17	9.77	005	5040	516	067	5006	025	13	5046	021	160	5082	014	263	5137	005	377	244	003					
18	973	001	7032	521	063	5037	020	108	5075	015	155	5117	012	256	5176	003	370	267	002					
19	962	500	2017	530	053	5048	021	097	5077	018	144	5116	015	245	5194	008	357	289	003					
20	973	003	5045	522	063	5025	031	108	5049	029	156	5074	025	259	5096	023	376	162	011					
21	980	003	3040	516	069	5005	036	114	5051	030	162	5075	026	264	5146	014	380	195	011					
22	997	003	4020	502	082	5045	022	127	5082	017	174	5120	015	275	5153	004	391	206	008					
23	001	005	4046	001	087	0006	038	133	5024	030	180	5058	025	285	5091	015	402	163						
24	981	004	3048	515	070	5010	039	115	5038	033	163	5074	025	265	5143	015	381	223	008					
25	985	003	5038	512	073	5032	029	118	5060	026	165	5088	023	268	5113	020	386	143	013					
26	001	003	4041	001	086	5032	030	131	5060	025	178	5056	029	282	5089	025	402	169	015					
27	993	005	2050	505	080	5005	039	126	5010	037	174	5005	009	280	5060	026	399	128						
28	009	003	7026	008	092	5052	020	136	5052	018	184	5035	028	288	5096	026	405	135	011					
29	004	005	6054	004	089	0007	044	135	5015	039	183	5042	032	288	5077	026	406	124	020					
30	004	004	8049	004	090	0007	049	136	0017	025	185	0000	026	291	5069	028	410	110	008					
DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS			60 MILLIBARS		
HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW				
01	542	274	02	699	393	01	889	550	138	672	312	648	559	665	693	672	857	675						
02	542	260		699	577	02	891	533	141	692	314	662	561	635	697	666								
04	515	382	09	665	473	052	852	554	108	570	291	547	549	579	690	568								
05	534	314	04	688	421	01	876	572	126	617	305	582	562	566	704	564								
06	527	295		683	392		874	544	131	576	313	567	567	594	705	600	884	602						
07	543	250	08	701	383	02	893	512	144	657	321	629	569	646	706	642								
08	531	259		689	377		881	531	135	596	316	583	569	604	708	617	886	619						
09	525	351	02	677	454		863	554	121	538	307	544	566	569										
10	525	341		678	446		867	517	126	566	311	544	570	534	713	560	898	540						
11	546	213	11	707	352	02	902	490	155	709	323	709	567	634	705	606	884	584						
12	519	267		677	373		870	507	127	587	308	578												
13	544	285	02	700	412		888	570	130	618	318	610	569	627	707	623	885	613						
14	542	243	08	700	368	03	892	536	143	662	318	639	565	656	701	665	875	661						
15	517	306		672	421		861	551	114	600	294	590	545	630	683	621								
16	526	362		677	463		862	596	114	614	293	614	544	629	681	629	858	623						
17	507	350	01	659	459																			
18	499	346		652	428		843	496	106	526	291	567	546	588	685	602	866	579						
19	485	387	01	635	467		823	525	084	548	267	564	522	596										
20	511	249	07	669	382	02	861	527	112	702	288	626	540	611	678	622								
21	514	264	06	571	368	03	863	537	115	610	293	628	515	628										
22	524	274	06	681	377	02	873	538	122	642	299	608	553	583	693	577								
23	537	255	03	694	384	02	886	526	139	600	319	570	578	523	723	523	911	475						
24	511	336	03	666	424	01	856	518	115	569	298	556	558	523										
25	523	204	05	685	327	02	879	466																
26	537	251	07	695	347	02	889	505	142	636	323	579	580	555	722	542								
27	535	226		695	347		890	495	143	620	323	584	580	555	722	550								
28	541	238	06	700	356		893	536	145	585	328	555	586	560	728	560	912	518						
29	543	200	13	706	306	05	900	471	155	671	332	572	540	564	731	564	915	545						
30	547	229	07	707	334	04	901	508	156	579	339	545	600	527	744	514	931	507						

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF OCTOBER 1951

DAY	SURFACE			1000 MBS.			900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS							
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW				
01	0 0 4	0 0 5	4 0 5	1	0 0 4	0 4 0	0 0 5	7	0 5 1	1 3 6	0 0 9	0 3 6	1 8 4	5 0 1	8	0 2 9	2 8 9	5 0 6	9	0 2 0	4 0 8	1 4 4	0 1 5			
02	0 1 1	0 0 4	0 0 5	4	0 0 5	0 9 6	0 0 3	8	0 5 6	1 4 2	5 0 0	7	1 9 0	5 0 3	2	0 3 5	2 9 4	5 0 9	2	0 2 2	4 1 2	1 6 4	0 1 4			
03	0 0 5	0 0 5	0 0 5	7	0 0 5	0 9 1	0 0 5	9	0 5 2	1 3 7	0 0 1	4 5	1 8 5	5 0 1	4	0 3 9	2 9 1	5 0 7	9	0 2 6	4 0 9	1 6 1	0 1 3			
04	0 8 7	0 0 5	2 0	3	5 1 0	0 7 5	0 0 3	0	0 3 9	1 2 1	5 0 2	2	0 3 7	1 6 4	5 0 4	6	0 3 2	2 7 3	5 0 9	3	0 2 4	3 9 0	1 7 3	0 1 3		
05	0 0 5	0 0 5	0 0 5	5	0 0 5	0 8 9	0 0 4	7	0 2 6	1 5 4	5 0 7	4	0 2 2	1 8 1	5 0 7	6	0 2 1	2 8 5	5 1 1	1	0 1 3	4 0 1	1 9 0	0 0 8		
06	0 1 1	0 0 6	0 0 5	2	0 0 6	0 9 5	0 0 2	5	0 4 7	1 4 1	0 0 0	4 1	1 9 0	5 0 0	9	0 4 0	2 9 5	5 0 8	0	0 2 6	4 1 3	1 5 8	0 1 6			
07	0 0 1	0 0 5	6	0 0 5	0 7 6	0 0 1	0 8 7	0	0 3 7	0 5 3	1 3 3	0 0 1	0 0 4	1 8 2	5 0 0	1	0 4 7	2 8 8	5 0 4	3	0 3 7	4 0 8	1 1 7	0 2 1		
08	0 9 1	0 0 5	0 0 5	3	5 1 7	0 7 8	0 0 3	0	0 2 6	1 2 3	5 0 6	0	1 9	1 7 0	5 0 9	3	0 1 7	2 7 2	5 1 6	7	0 1 1	3 8 6	2 4 8	0 0 6		
09	0 9 2	0 0 4	1 0 4	6	5 0 6	0 7 9	0 0 4	0	0 3 6	1 2 4	5 0 3	8	5 1 3	8	5 1 2	1	7 2	5 0 6	0 2 6	2 7 5	5 1 0	9	0 2 0	3 9 2		
10	0 0 7	0 0 2	0 0 3	0	0 0 6	0 9 0	0 0 2	0	0 2 0	1 3 4	5 0 4	8	5 1 9	8	5 1 9	1	8 1	5 0 9	5	0 0 8	2 8 3	5 1 6	8	0 1 1	3 9 7	
11	0 0 4	0 0 1	4 0 3	1	0 0 7	0 9 1	0 0 1	0	0 2 3	1 3 5	5 0 4	9	5 1 8	8	5 1 8	0	1 9	1 8 1	5 0 9	5	0 0 8	2 8 3	5 1 6	8	0 0 8	
12	0 0 8	0 0 5	6 0 4	7	0 0 7	0 9 2	0 0 2	0	0 2 5	1 3 9	5 0 1	2	5 1 2	3	5 1 2	0	3 9	1 8 7	5 0 1	3	0 3 2	2 9 5	5 0 6	7	0 2 0	4 1 1
13	0 0 8	H	0 0 3	0 0 3	0 0 7	0 9 2	0 0 2	0	0 2 5	1 3 8	5 0 2	2	5 1 2	4	1 8 7	5 0 3	0 1 8	2 9 2	5 0 9	2	0 1 3	4 1 0	1 6 1	0 0 5		
14	0 9 7	0 0 5	3 0 3	5	0 0 2	0 8 4	0 0 4	0	0 5 6	1 3 1	5 0 2	5	5 1 2	6	1 7 9	0 0 5	0 2 8	2 8 5	5 0 5	0	0 1 9	4 0 5	1 3 4	0 0 6		
15	0 9 3	0 0 5	0 0 5	2	0 0 5	0 8 0	0 0 4	0	0 6 7	1 2 5	5 0 9	6	0 1 9	1 7 1	5 1 3	2	0 1 5	2 7 3	5 1 1	9	0 0 7	3 9 0	1 6 4	0		
16	0 0 4	A	1 2	0 0 1	8	0 0 1	0 8 3	0	0 1 4	1 2 7	5 1 2	9	0 1 2	1 7 3	5 1 7	3	0 1 0	2 7 2	5 2 0	9	0 0 6	3 8 5	2 3 8	0 0 3		
17	0 0 6	5	0 1 2	0 0 1	8	0 0 5	0 8 6	0	0 1 2	1 3 1	5 1 3	5	5 1 2	6	0 1 2	1 7 7	5 1 6	8	0 1 1	2 7 7	5 1 9	5	0 0 6	3 9 0		
18	0 1 2	0 0 1	1 0 2	6	0 1 0	0 9 3	0 0 5	0	0 2 2	1 3 8	5 1 0	3	5 1 9	1 8 5	5 0 6	6	0 0 1	2 8 9	5 1 0	6	0	4 0 6	1 6 6	0		
19	0 1 9	0 0 1	6 0 0	2	0 1 2	0 9 9	0 0 5	0	0 1 8	1 4 3	5 0 4	7	5 0 7	5	5 0 3	5	2 9 6	5 0 7	5	5 0 7	5	4 1 4	1 5 4	0		
20	0 0 2	0 0 1	7	0 2 5	0 0 1	7	1 0 0	0	0 2 3	1 4 5	5 0 2	3	5 0 3	5	5 0 2	5	2 9 7	5 0 9	3	1 1 3	0	1 0	4 0 5	1 6 8	0 0 4	
21	0 1 2	0 0 2	6	0 0 2	0 0 3	0 0 1	0 9 4	0	0 2 2	1 3 9	5 0 2	2	5 0 2	1	1 8 7	5 0 5	9	0 1 3	2 9 0	5 1 1	3	0 1 0	4 0 5	1 9 9	0 0 8	
22	0 0 0	G	0 0 5	7	0 0 1	0 0 1	0 8 6	0	0 1 4	0 4 3	5 0 1	1	5 0 1	1	1 8 0	5 0 4	1	0 3 0	2 8 5	5 0 8	4	0 0 3	1 5 0	0 1 4	0	
23	0 4 9	7	0 0 5	7	0 0 5	5	0 0 2	0	0 2 1	1 4 6	5 0 1	3	5 0 1	8	5 0 5	0	1 7	2 8 5	5 0 4	4	0 1 4	4 0 5	1 1 9	0 1 1		
24	0 9 6	0 0 5	5 0 6	0 0 2	0 0 5	1 1 1	0 0 7	0	0 2 2	1 2 2	5 0 2	5	5 0 4	5	5 0 4	2	1 7 1	5 0 5	4	0 3 5	3 9 6	1 1 3	0 2 2			
25	0 7 8	0 0 4	4 0 4	5	0 0 5	1 1 7	0 0 6	0	0 2 2	1 3 2	5 0 4	0	5 0 6	2	5 0 6	2	2 2 6	5 1 0	5	0 1 0	3 8 2	1 5 5	0 1 3			
26	0 9 2	0 0 2	7	0 0 3	0 0 6	1 1 4	0 0 7	0	0 2 2	1 3 8	5 0 6	3	5 0 6	0	5 0 6	2	2 2 6	5 1 0	5	0 1 0	3 8 2	1 5 5	0 1 3			
27	0 0 1	0 0 1	0 0 2	8	0 0 1	0 0 1	0 0 5	0	0 2 3	1 2 9	5 0 3	0	5 0 3	2	5 0 3	0	2 2 7	5 1 2	5 2 0	5	0 0 9	3 9 1	2 2 8	0 0 4		
28	0 0 4	0 0 2	2	0 0 3	0 0 3	0 0 4	0 0 8	0	0 2 4	1 3 3	5 0 4	1	5 0 4	1	1 8 0	5 0 6	0	1 2	2 8 4	5 0 9	0	0 0 7	4 0 2	1 6 6	0 0 4	
29	0 4 8	0 0 5	2 0 3	4	0 0 4	5 1 5	0 0 7	0	0 2 6	1 1 6	5 0 4	6	5 0 4	5	5 0 4	2	2 7 0	5 0 6	7	3 8 9	1 4 3	0 1 1	0 1 1			
30	0 9 1	0 0 2	1 0 2	5	0 0 2	5 0 7	0 0 8	0	0 2 5	1 2 2	5 0 8	5	5 0 8	2	1 6 9	5 1 0	4	0 1 8	2 7 2	5 1 0	9	0 1 1	3 8 9	1 7 7	0	
31	0 9 8	0 0 1	0 0 2	9	0 0 3	5 0 3	0 0 5	0	0 2 1	1 2 7	5 0 9	3	5 0 3	2	1 7 3	5 1 3	0 1 6	0 1 6	2 7 6	5 1 2	2	0 0 7	3 9 2	1 9 1	0 0 8	

DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS			60 MILLIBARS		
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW			
01	5 4 3	2 3 8	0 7	7 0 2	3 6 7	0 2	8 9 5	5 2 3	1 5 5	4 8 6	3 4 4	4 8 5	6 1 2	4 7 1	7 6 0	4 7 4	9 5 0	4 6 0						
02	5 4 7	2 4 9	0 6	7 0 5	3 7 3	0 2	8 9 7	5 3 9	1 5 7	5 1 4	3 4 5	4 9 3	6 1 2	4 6 6	7 6 0	4 5 8	9 5 2	4 4 1						
03	5 4 3	2 5 2	0 7	7 0 1	3 8 2	0 2	8 9 5	5 1 6	1 5 4	5 1 6	3 4 3	4 8 9	6 1 2	4 6 0	7 6 0	4 5 8	9 5 2	4 4 1						
04	5 2 4	2 7 4	0 5	6 8 1	3 9 7	0 2	8 7 1	5 2 1	1 5 6	4 6 6	3 2 6	5 1 2	6 1 2	4 6 0	7 6 0	4 5 8	9 5 2	4 4 1						
05	5 3 5	2 8 3	0 3	6 9 1	3 9 6	0	8 8 0	5 6 5	1 3 7	5 2 2	3 2 5	4 6 4	5 9 5	4 4 2										
06	5 4 8	2 3 4	0 9	7 0 7	3 6 5	0 3	8 9 9	5 1 6	1 5 5	5 8 5	3 3 7	5 3 0	6 0 0	5 0 3	7 4 6	4 8 3								
07	5 4 5	2 0 0	0 9	7 0 6	3 3 0	0 3	9 0 1	4 9 1	1 4 1	5 6 3	3 3 7	5 4 8	6 0 0	4 7 5	7 4 8	4 3 3								
08	5 1 5	3 4 2	0 2	6 7 0	3 8 8	0	8 6 7	3 9 0	1 4 4	4 2 1	3 3 9	4 2 8	6 1 4	4 0 0	7 6 6	3 9 3								
09	5 2 6	2 6 6	0 6	6 8 4	3 6 7	0 3	8 7 7	5 0 9	1 4 3	4 4 6	3 3 7	4 4 1	6 1 1	4 3 0	7 6 2	4 1 0	9 5 8	4 1 1						
10	5 2 8	2 5 5	0 4	6 9 6	4 0 6	0	8 8 5	5 5 6	1 4 7	4 6 4	3 3 8	4 4 1	6 1 1	4 2 5	7 6 2	4 2 0	9 5 6	4 2 0						
11	5 3 9	2 6 4	0 4	6 9 6	3 9 7	0	8 9 5	5 4 6	1 5 1	5 3 5	3 3 8	4 7 5	6 0 9	4 3 0	7 5 9	4 2 1	9 5 5	4 0 6						

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF NOVEMBER 1951

DAY	SURFACE			1000 MBS.			900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS			
	PPP	TTT	WWW	HHH	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW	HHH	TTT	WWW
01	9 7 6	0 0 1	6 0 3	6	5 1 9	0 6 5	5 0 3 3	0 2 7	1 1 0	5 0 6 0	0 2 2	1 5 8	5 0 9 6	0 1 6	2 5 9	5 1 7 0	0 1 1	3 7 3	2 4	7	0 0 4	
02	9 8 6	0 0 1	7 0 3	0	5 1 1	0 7 4	5 0 4 7	0 2 2	1 1 8	5 0 9 1	0 1 9	1 6 5	5 1 3 1	0 1 5	2 6 6	5 1 5 6	0 0 5	3 8 2	1 7	5		
03	9 7 6	0 0 2	2 0 3	4	5 1 9	0 6 5	5 0 3 5	0 2 7	1 1 0	5 0 6 6	0 2 4	1 5 7	5 0 8 6	0 2 3	2 6 0	5 1 1 5	0 2 0	3 7 6	1 8	6	0 1 1	
04	9 7 4	5 0 0	2 0 3	6	5 2 1	0 6 4	5 0 3 3	0 3 2	1 0 9	5 0 4 0	0 3 3	1 5 7	5 0 5 0	0 3 2	2 6 1	5 1 2 4	0 1 4	3 7 7	1 9	6	0 1 0	
05	9 9 7	0 0 1	9 0 3	1	5 0 2	0 8 3	5 0 6 0	0 2 2	1 2 7	5 0 8 6	0 2 0	1 7 4	5 1 1 6	0 1 7	2 7 6	5 1 4 6	0 0 7	3 9 1	2 2	4	0 0 3	
06	9 9 6	0 0 4	8 0 4	4	5 0 3	0 8 2	5 0 1 7	0 3 4	1 2 8	5 0 3 2	0 3 4	1 7 6	5 0 9 9	0 4 4	2 8 1	5 0 5 5	0 5 3	4 0 2	0 8	7	0 2 8	
07	9 8 4	0 0 5	9 0 5	6	5 1 3	0 7 4	5 0 3 2	0 0 3	4 5 5	1 2 0	5 0 0 4	0 3 5	1 6 8	5 0 3 5	0 2 6	2 7 2	5 0 9 4	0 1 4	3 8 9	1 8	2	0 0 5
08	9 8 9	0 0 4	4 0 4	6	5 0 8	0 7 7	0 0 1 5	0 3 5	1 2 3	5 0 1 6	0 2 7	1 7 1	5 0 4 8	0 2 4	2 7 5	5 1 1 4	0 1 7	3 9 2	1 5	3	0 1 1	
09	9 9 5	0 0 0	5 0 2	5	5 0 3	0 8 2	0 0 1 3	0 4 0	1 2 8	5 0 0 4	0 3 5	1 7 7	5 0 2 6	0 2 9	2 8 1	5 1 1 0	0 1 5	3 9 7	1 6	4	0 0 7	
10	9 9 1	0 0 4	7 0 4	5	5 0 7	0 7 8	0 0 2 4	0 4 5	1 2 4	5 0 1 1	0 3 9	1 7 2	5 0 3 4	0 3 4	2 7 7	5 0 8 9	0 1 4	3 9 5	1 5	1		
11	0 0 1	0 0 3	3 0 3	8	5 0 1	0 8 6	5 0 1 4	0 2 3	1 3 2	5 0 1 0	0 0 8	1 8 0	5 0 1 5	0 2 5	2 8 5	5 0 8 5	0 0 7	4 0 3	1 2	4	0 1 1	
12	0 0 6	0 0 4	5 0 3	8	5 0 5	0 9 0	5 0 0 8	0 3 6	1 3 5	5 0 0 2	0 2 0	1 8 5	5 0 0 0	0 1 0	2 9 1	5 0 6 0	0 1 1	4 1 0	1 3	3	0 1 0	
13	9 9 7	0 0 5	0 0 4	5	5 0 5	0 8 3	0 0 0 0	0 3 9	1 2 9	5 0 2 6	0 3 6	1 7 7	5 0 1 4	0 4 0	2 8 2	5 0 5 4	0 3 0	4 0 1	1 4	0	0 1 5	
14	9 9 1	0 0 4	4 0 5	0	5 0 7	0 7 8	0 0 0 7	0 3 2	1 2 4	5 0 2 4	0 1 9	1 7 2	5 0 5 5	0 2 3	2 7 5	5 1 0 8	0 0 6	3 9 2	1 6	8	0 1 4	
15	9 9 6	0 0 5	3 0 3	7	5 0 3	0 8 2	5 0 2 6	0 3 0	1 2 8	5 0 2 8	0 2 1	1 7 5	5 0 4 6	0 0 9	2 7 9	5 1 0 6		3 9 6	1 7	0		
16	9 9 2	0 0 6	9 0 6	0	5 0 5	0 8 0	0 0 3 7	0 5 3	1 2 6	5 0 1 8	0 5 0	1 7 5	5 0 0 1	0 4 6	2 8 1	5 0 5 0	0 3 5	4 0 1	1 1	1	0 2 4	
17	9 6 9	0 0 6	9 0 6	2	5 2 5	0 6 1	0 4 8	0 5 9	1 0 8	0 0 3 0	0 5 6	1 5 7	3 0 0 8	0 5 0	2 6 3	5 0 4 7	0 3 4	3 8 3	1 0	3	0 1 0	
18	9 7 4	0 0 2	7 0 4	5	5 2 1	0 6 5	0 0 1 8	0 4 4	1 1 1	0 0 6	0 4 5	1 5 9	5 0 1 5	0 4 1	2 6 4	5 0 6 2	0 3 3	3 8 3	1 3	4	0 1 9	
19	9 9 2	0 0 4	0 0 4	1	5 0 6	0 7 9	5 0 3 1	0 3 0	1 2 4	5 0 0 8	0 1 4	1 7 3	5 0 2 6	0 2 5	2 7 8	5 0 5 7	0 1 1	2 9 7	1 3	4		
20	9 9 0	0 0 5	5 0 6	0	5 0 8	0 7 9	0 0 4 7	0 5 7	1 2 5	5 0 2 7	0 5 3	1 7 4	5 0 0 9	0 5 0	2 8 1	5 0 3 7	0 3 7	4 0 1	1 0	5	0 2 2	
21	9 9 0	0 0 5	6 0 5	9	5 0 8	0 7 8	0 0 2 4	0 4 5	1 2 5	5 0 2 7	0 4 3	1 7 3	5 0 0 2	0 3 4	2 7 9	5 0 6 4	0 2 4	3 9 6	1 5	6	0 0 9	
22	9 9 3	0 0 7	8 0 6	5	5 0 5	0 8 1	0 0 3 4	0 4 4	1 2 7	5 0 0 4	0 4 1	1 7 6	5 0 0 9	0 3 1	2 8 1	5 0 7 5	0 2 1	4 0 0	1 4	2	0 0 5	
23	0 0 0	0 0 4	5 0 4	6	5 0 1	0 8 6	0 0 2 5	0 4 7	1 3 2	5 0 0 9	0 3 8	1 8 1	5 0 1 4	0 3 5	2 8 6	5 0 4 9	0 2 0	4 0 6	1 3	5	0 0 6	
24	0 0 8	0 0 3	5 0 4	3	5 0 7	0 9 1	5 0 5 1	0 2 5	1 3 6	5 0 1 0	0 0 9	1 8 5	5 0 0 0	0 2 7	2 8 1	5 0 5 4	0 1 0	4 1 0	1 2	7	0 0 8	
25	0 0 5	0 0 5	1 0 3	8	5 0 5	0 9 0	0 0 0 0	0 3 6	1 3 5	5 0 2 8	0 5 2	1 8 3	5 0 5 0	0 2 7	2 8 7	5 0 6 7	0 0 9	4 0 7	1 3	0		
26	0 0 8	0 0 6	7 0 4	1	5 0 2	5 0 0 3	0 2 8	1 3 8	5 0 2 4	0 5 2	1 8 6	5 0 5 1	0 1 6	2 8 9	5 1 1 6	0 1 1	4 0 5	1 8	0	0 0 5		
27	0 1 2	0 0 6	0 0 4	5	5 0 1	0 9 5	5 0 0 8	0 3 6	1 4 1	5 0 3 0	0 3 4	1 8 9	5 0 5 4	0 3 0	2 9 2	5 1 1 6	0 2 0	4 0 8	2	0	0 1 0	
28	0 1 5	0 0 4	6 0 5	0	5 1 3	0 9 8	0 0 0 6	0 3 8	1 4 4	5 0 2 0	0 2 9	1 9 2	5 0 0 9	0 2 7	2 9 8	5 0 4 7	0 1 5	4 1 8	0 9	6	0 1 9	
29	0 1 4	0 0 5	1 0 4	2	5 1 2	0 9 7	0 0 2 6	0 4 1	1 4 3	5 0 1 1	0 4 1	1 9 2	5 0 0 9	0 2 7	2 9 8	5 0 4 7	0 1 5	4 1 8	0 9	6	0 1 9	
30	0 0 8	0 0 6	2 0 5	1	5 0 7	0 9 3	0 0 0 5	0 3 9	1 3 9	5 0 7 2	0 3 8	1 8 9	5 0 5 7	0 3 5	2 9 7	5 0 0 5	0 3 8	4 1 9	0 7	6	0 2 6	

DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS			60 MILLIBARS		
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW			
01	5 0 5	3 6 0		6 5 3	5 0 8		8 3 8	5 4 2	0 9 9	5 2 8	2 8 5	5 1 2	5 3 7						9 1 6	4 5 0				
02	2 4 1			3 4 3	0 3		8 7 1	4 9 7	1 2 8	5 8 6	3 1 0	5 6 1	5 6 9	7 2 4	4 6 0									
03	5 1 0	2 7 0	0 6	6 6 7	3 9 1	0 2	8 5 8	5 2 7	1 1 8	5 0 6	3 0 7	4 7 8	5 7 5	4 6 3	4 6 0	7 2 9	4 5 7							
04	5 1 0	2 9 5	0 4	6 6 5	4 0 2	0 2	8 5 5	5 4 6	1 2 0	4 7 0	3 1 1	4 6 2	5 8 0	4 6 0	7 2 9	4 5 7								
05	5 2 2	3 0 0		6 8 0	3 4 4		8 7 5	4 8 9	1 4 0	4 7 6	3 3 0	4 8 0	5 9 7	4 7 0	7 4 5	4 7 4								
06	5 4 1	1 5 3	1 7	7 0 6	2 6 7	0 7	9 0 7	4 2 1	1 6 8	6 3 3	3 4 5	5 7 7	6 0 2	5 5 4	7 4 4	5 3 6								
07	5 2 5	2 8 0		6 8 0	3 6 0		8 7 5	4 8 9	1 3 6	5 1 7	3 2 3	4 9 2	5 9 3	4 6 1	7 4 1	4 5 5								
08	5 2 7	2 5 1	0 3	6 8 5	3 6 1	0 1	8 7 9	5 0 3	1 3 9	5 2 6	3 2 6	4 9 9	5 9 4	4 6 5	7 4 2	4 4 6								
09	5 3 1	2 7 4	0 4	6 8 9	3 7 4		8 8 2	5 0 7	1 4 4	5 0 1	3 3 0	5 2 4	5 9 6	4 6 6	7 4 4	4 5 3								
10	5 3 0	2 3 0		6 9 0	3 5 3		8 8 6	4 7 3	1 5 1	5 0 4	3 4 4	5 0 0	6 0 9	4 7 8	7 5 6	4 9 1								
11	5 4 0	2 2 1	0 5	7 0 0	3 3 0	0 2	8 9 7	4 0 2	1 4 3	4 7 1	3 3 4	4 5 8	6 0 3	4 6 5	7 5 1	4 7 1								
12	5 4 7	1 9 7	0 4	7 0 9	3 2 0		8 9 0	4 8 0	1 5 7	4 5 2	3 4 9	4 6 5	6 1 6	4 8 1	7 6 3	4 8 4								
13	5 3 7	2 3 7	0 9	6 9 6	3 4 5	0 3	8 8 9	4 7 9	1 5 2	5 0 7	3 4 1	4 9 9	6 0 6	4 8 4	7 5 3	4 6 7								
14	5 2 7	2 4 4	0 8	6 8 6	3 6 3	0 3	8 8 0	4 9 3																
15	5 3 0	2 8 0		5 9 8			8 7 7	5 0 2	1 4 3	4 7 1	3 3 4	4 5 8	6 0 3	4 6 5	7 5 1	4 7 1								
16	5 3 9	2 0 4	1 2	7 0 0	3 1 5	0 5</td																		

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF DECEMBER 1951

DAY	SURFACE			1000 MBs		900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS		
	PPP	TTT	WWW	HHH.	HHH	TTT	WWW	HHH	TTT	WWW										
01	9.9.0	0.0.4	2.0.4.2	5.0.7	0.7.7	5.0.1.1	0.3.4	1.2.3	5.0.3.6	0.3.0	1.7.0	5.0.8.3	0.2.3	2.7.4	5.1.0.3	3.9.1	1.7.5	0.0.6		
02	9.8.5	0.0.5	6.0.3.4	5.1.9	0.7.3	5.0.2.6	0.2.8	1.1.8	5.0.6.4	0.2.5	1.6.5	5.0.9.1	0.2.2	2.6.9	5.1.1.4	0.1.7	3.8.5	1.7.9	0.1.1	
03	9.8.2	0.0.7	7.0.5.2	5.1.4	0.7.2	5.0.2.0	0.4.1	1.1.8	5.0.6.6	0.3.6	1.6.6	5.0.3.7	0.3.1	2.7.0	5.1.0.0	0.2.1	3.9.7	1.7.7	0.1.1	
04	9.8.3	0.0.4	8.0.4.0	5.1.5	0.7.2	5.0.1.8	0.3.1	1.1.7	5.0.4.0	0.2.9	1.6.5	5.0.5.1	0.2.8	2.6.8	5.1.2.4	0.2.0	3.8.4	1.9.4	0.0.8	
05	9.8.8	0.0.4	2.0.4.0	5.0.9	0.7.6	5.0.2.4	0.3.1	1.2.1	5.0.3.3	0.3.1	1.6.9	5.0.5.6	0.2.9	2.7.2	5.1.3.4	0.1.1	3.8.7	2.2.1	0.0.8	
06	9.9.6	0.0.2	8.0.2.5	5.0.3	0.8.1	5.0.4.4	0.1.9	1.2.6	5.0.8.3	0.1.6	1.7.3	5.0.9.9	0.1.1	2.7.5	5.1.4.0	0.0.6	3.9.1	2.0.6	0.0.4	
07	0.0.3	0.0.3	8.0.3.0	5.0.3	0.8.7	5.0.4.0	0.2.4	1.3.2	5.0.7.4	0.1.9	1.7.9	5.0.6.5	0.2.5	2.8.2	5.1.5.3	0.0.7	3.9.8	2.0.5	0.0.3	
08	3.0.7	0.0.7	4.0.5.1	5.0.6	0.9.2	5.0.6.7	0.0.7	1.0.7	5.0.4.2	0.0.4	1.8.7	5.0.2.5	0.3.6	2.9.2	5.0.4.8	0.2.6	4.1.1	1.1.6	0.0.8	
09	0.0.4	0.0.7	7.0.5.7	5.0.4	0.9.0	5.0.2.5	0.4.9	1.3.5	5.0.5.2	0.2.8	1.8.6	5.0.2.8	0.2.5	2.9.3	5.0.3.3	0.1.7	4.1.3	1.0.6	0.2.0	
10	9.9.5	0.0.7	1.0.6.2	5.0.5	0.8.3	5.0.6.2	0.6.6	1.3.0	5.0.6.7	0.7.3	1.8.0	5.0.4.4	0.6.5	2.8.7	5.0.1.1	0.4.9	4.0.9	0.7.1	0.2.9	
11	9.9.6	0.0.6	8.0.5.6	5.0.3	0.8.4	5.0.5.7	0.6.0	1.3.1	5.0.5.5	0.6.3	1.8.0	5.0.3.4	0.5.6	2.8.8	5.0.1.3	0.4.6	4.1.0	0.7.0	0.2.9	
12	0.0.6	0.0.5	5.0.6.0	5.0.5	0.9.2	5.0.5.5	0.6.0	1.3.8	5.0.3.1	0.5.2	1.8.7	5.0.0.1	0.4.7	2.9.3	5.0.3.0	0.4.0	4.1.5	0.6.6	0.1.4	
13	0.0.1.2	0.0.9	0.0.5.8	5.0.1	0.9.7	5.0.2.5	0.4.6	1.4.3	5.0.3.5	0.4.9	1.9.2	5.0.0.2	0.4.1	2.9.9	5.0.1.2	0.1.8	4.2.1	0.6.8		
14	0.0.1.1	0.0.9	4.0.6.4	5.0.1	0.9.6	5.0.1.1	0.4.1	1.4.2	5.0.2.1	0.4.3	1.9.1	5.0.0.1	0.4.2	2.9.7	5.0.2.0	0.0.9	4.1.8	0.5.3		
15	0.0.8	0.0.9	8.0.5.5	5.0.0	0.9.3	5.0.2.1	0.3.8	1.3.9	5.0.2.8	0.4.5	1.8.8	5.0.0.6	0.4.2	2.9.5	5.0.4.2	0.3.0	4.1.6	0.6.9		
16	0.0.4	0.0.8	2.0.5.5	5.0.4	0.9.4	5.0.1.0	0.3.4	1.3.5	5.0.2.9	0.2.7	1.8.3	5.0.3.2	0.2.5	2.8.9	5.0.4.6	0.4.9	4.0.9	1.0.9		
17	0.0.4	0.1.0	4.0.5.3	5.0.4	0.9.0	5.0.2.2	0.4.0	1.3.6	5.0.0.2	0.5.4	1.8.5	5.0.2.5	0.2.9	2.8.9	5.0.9.0	0.1.9	4.0.8	1.3.2	0.0.6	
18	0.0.4	0.0.9	6.0.6.1	5.0.4	0.9.4	5.0.3.2	0.5.1	1.3.7	5.0.0.5	0.4.6	1.8.5	5.0.1.7	0.4.2	2.9.1	5.0.6.9	0.3.3	4.1.0	1.1.8	0.2.2	
19	9.8.7	0.0.7	9.0.6.6	5.1.0	0.7.6	5.0.4.6	0.5.9	1.2.3	5.0.2.1	0.5.2	1.7.1	5.0.1.0	0.3.4	2.7.7	5.0.6.1	0.2.8	3.9.7	1.2.5	0.0.6	
20	0.0.8	1.0.6.1	5.1.3	0.7.3	0.0.3.0	0.4.9	1.1.9	0.0.0.5	0.4.6	1.6.7	5.0.2.2	0.4.1	2.7.2	5.0.8.9	0.2.4	3.9.0	1.5.1	0.1.3		
21	9.9.5	0.0.5	8.0.3.9	5.0.3	0.8.2	5.0.0.7	0.3.5	1.2.7	5.0.3.9	0.3.1	1.7.5	5.0.3.0	0.1.1	2.8.0	5.0.6.1	0.3.0	3.9.9	1.5.9	0.1.3	
22	9.9.5	0.0.7	2.0.5.5	5.0.5	0.8.1	5.0.1.6	0.4.3	1.2.7	5.0.1.2	0.5.7	1.7.5	5.0.4.0	0.3.3	2.7.9	5.1.1.1	0.2.2	3.9.5	1.8.6	0.0.4	
23	9.8.6	0.0.5	5.0.4.1	5.1.1	0.7.5	0.0.0.2	0.3.4	1.2.0	5.0.3.9	0.2.8	1.6.8	5.0.5.1	0.2.6	2.7.2	5.1.0.5	0.1.2	3.8.9	1.9.7	0.0.4	
24	9.9.5	0.0.3	9.0.4.0	5.0.3	0.8.1	5.0.1.6	0.3.0	1.2.6	5.0.4.3	0.2.2	1.7.4	5.0.8.2	0.2.0	2.7.6	5.1.5.5	0.1.3	3.9.1	2.3.4	0.0.6	
25	0.0.6	0.0.5	9.0.4.4	5.0.5	0.8.5	5.0.0.2	0.3.0	1.4.6	5.0.4.0	0.2.6	1.9.3	5.0.8.2	0.1.8	2.9.7	5.0.9.7	0.4.5	4.0.5	1.2.0	0.1.2	
26	9.8.2	0.0.8	0.0.6.5	5.1.4	0.7.2	0.0.4.1	0.5.5	1.1.9	0.0.1.2	0.4.8	1.6.7	5.0.2.1	0.4.1	2.7.2	5.0.8.1	0.2.4	3.9.0	1.4.9	0.1.7	
27	0.0.2	0.0.8	0.0.5.4	5.0.2	0.8.8	0.0.4.3	0.2.2	1.3.5	0.0.1.9	0.1.9	1.8.4	0.0.1.9	0.1.9	2.9.0	5.0.4.5	4.0.9	1.1.6	0.1.7		
28	9.9.5	0.0.8	0.0.6.0	5.0.3	0.8.3	0.0.2.1	0.4.0	1.2.9	5.0.0.2	0.5.1	1.7.7	5.0.3.0	0.1.8	2.8.1	5.0.9.2	0.2.3	3.9.9	1.5.3	0.1.7	
29	4.9.1	0.0.5	6.0.6.0	5.0.7	0.7.9	0.0.2.2	0.3.6	1.2.4	5.0.2.8	0.3.2	1.7.2	5.0.5.8	0.2.6	2.7.5	5.1.2.4	0.1.8	3.9.1	2.0.7	0.0.8	
30	0.0.7	0.0.5.5	5.0.1	0.8.6	0.0.3.4	0.5.2	1.3.1	0.0.1.1	0.4.3	1.8.0	5.0.0.3	0.3.2	2.8.6	5.0.7.1	0.1.7	4.0.3	1.4.5	0.1.1		
31	4.7.7	0.0.5	6.0.5	5.1.9	0.8.7	0.0.2.6	0.4.6	1.1.3	5.0.0.4	0.4.0	1.6.2	5.0.3.0	0.3.6	2.6.7	5.0.8.0	0.2.7	3.8.5	1.4.9	0.1.6	

DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			80 MILLIBARS			60 MILLIBARS		
	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW			
01	5.2.5	2.6.9	0.2	6.8.3	3.7.6	0.2	8.7.7	4.3.6	1.5.2	4.1.9	3.4.6	4.3.4	6.1.7	4.5.5										
02	5.2.0	2.5.5	0.2	6.7.8	3.6.5	0.2	8.7.3	4.7.1	1.4.3	4.3.8	3.3.4	4.7.9												
03	5.2.1	2.6.5	0.6	6.7.8	4.0.0	0.0.1	8.7.1	4.6.9	1.4.4	4.0.6	3.3.8	4.5.5	6.0.5	4.8.2	7.5.2	4.7.6	9.4.3	4.6.9						
04	5.1.7	2.7.3	0.3	6.7.5	3.6.6	0.1	8.6.8	5.0.6	1.3.9	4.2.0	3.3.2	4.5.9	6.0.2	4.6.5	7.4.9	4.6.8	9.4.1	4.6.2						
05	5.2.1	2.6.3	0.6	6.7.9	3.6.2		8.7.1	5.2.8	1.3.8	4.5.3	3.3.1	4.2.2												
06	5.2.5	2.9.5	0.2	6.8.0	3.9.7	0.1	8.7.0	5.5.5	1.3.0	4.8.3	3.2.1	4.5.7	5.9.3	4.4.0	7.4.3	4.4.6	9.3.5	4.3.3						
07	5.3.1	2.6.7	0.3	6.8.7	3.8.6	0.1	8.7.9	5.2.7	1.4.1	4.9.0	5.3.0	4.9.7	5.9.6	4.6.9	7.4.4	4.6.7								
08	5.4.9	2.1.1	0.7	7.1.0	3.1.1	0.3	9.0.7	4.5.7	1.6.7	5.6.5	3.5.1	5.3.1	6.1.3	5.1.2	7.5.8	4.8.0	9.4.9	4.7.1						
09	5.5.1	1.7.6	0.5	7.1.5	2.7.7	0.7	9.1.6	4.0.7	1.8.0	5.6.6	3.6.5	5.1.0	6.2.7	5.1.4	7.7.3	4.8.4	9.6.2	4.6.1						
10	5.4.9	1.5.6	0.4	7.1.3	2.6.2	0.6	9.1.5	4.1.1	1.7.6	5.6.9	3.6.1	5.0.8	6.2.4	5.0.8	7.7.0	4.9.4								
11	5.5.0	1.5.0	0.6	7.1.5	2.7.0	0.7	9.1.5	4.2.2	1.7.9	5.5.6	3.6.5	5.0.6	6.2.8	4.9.3	7.7.6	4.5.5								
12	5.5.4	1.5.6	0.6	7.1.8	2.8.1	0.7	9.1.8	4.3.1	1.8.1	5.9.8	3.6.2	5.2.1	6.2.4	5.0.9	7.7.0	5.0.0	9.5.9	4.5.6						
13	5.6.1	1.3.8	0.6	7.2.6	2.8.4	0.7	9.2.6	4.3.3	1.8.6	5.6.2	3.6.7	5.3.8	6.2.5	5.3.8	7.7.0	5.1.4	9.5.7	4.8.0						
14	5.5.9	1.5.0	0.6	7.2.3	2.8.1	0.4	9.2.2	4.4.5	1.8.1	6.2.9	3.6.1	5.4.9	6.2.1	5.2.3	7.6.6	4.9.4	9.5.6	4.6.0						
15	5.5.6	1.4.8	0.6	7.2.1	2.7.8	0.3	9.2.1	4.1.9	1.8.4	5.9.5	3.6.5	5.3.5	6.2.7	5.1.0	7.7.3	4.7.9								
16	5.4.6	2.1.4	0.6	7.0.7</																				

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND 1951.
TROPOPAUSE.

JANUARY				FEBRUARY				MARCH				APRIL							
DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE					
01	1206	192	613	1	01	1329	161	578	1	01	1129	211	638	1					
02	1018	252	556	1	02	950	278	490	1	02	1090	222	525	1					
03	1474	126	555	2	03	939	278	490	1	03	966	267	532	1					
04	1069	233	591	1	04	840	312	474	1	04	910	289	566	1					
05	1359	150	502	2	05	768	350	461	1	05	1042	237	586	1					
06	1198	200	556	1	06					06	965	262	584	1					
07					07					07	1103	217	584	1					
08	959	275	433	1	08	962	274	444	1	08	1053	232	519	1					
09	1411	136	475	1	09	1215	193	602	1	09	1010	249	599	1					
10	1000	254	499	1	10	1364	150	563	1	10	1151	200							
11	1194	195	660	1	11	850	307	513	1	11									
12					12					12	1087	226	579	1					
13	1022	245	552	1	13	1257	175	483	1	13	1009	247	560	1					
14	952	272	554	1	14	757	350	454	1	14	898	289	496	1					
15	1173	200	580	1	15	952	270	480	1	15	1090	220	637	1					
16	1415	136	500	1	16					16	1159	200	678	1					
17	950	208	534	1	17	1442	130	520	1	17	1156	200	633	1					
18	1153	208	596	1	18	1438	130	521	1	18	1056	230	648	1					
19	1128	213	607	1	19					19	981	25	601	1					
20	1102	221	578	1	20					20	22	894	286	516	1				
21	999	255	562	1	21	1391	146	631	1	21	22	1115	215	625	1				
22	1191	200	631	1	22	1101	228	560	1	22	24								
23	1407	142	570	1	23					23	24								
24	1058	241	585	1	24	1051	239	569	1	24	25								
25	1038	247	562	1	25	1029	248	588	1	25	26								
26	1190	200	617	1	26	1078	234	593	1	26	27								
27					27	1353	150	530	2	27	28								
28					28					28	29								
29					29					29	30								
30					30					30	31								
31	1428	137	586	1	31	1036				31	1036	241	592	1					
MAY				TYPE	JUNE				TYPE	JULY				AUGUST					
DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE
01	877	300	562	2	01	1095	219	663	1	01	1213	180	753	1	01	1120	205	735	1
05	1110	215	598	1	02	1016	245	615	2	02	1054	233	664	2	02	1135	202	680	1
06	987	256	547	1	03	990	255	600	2	03	1101	212	601	2	03	1083	223	679	1
07	1205	186	544	1	04	1131	207	565	1	04	768	342	501	2	04	1100	215	618	1
08	1107	216	634	1	05	970	262	623	2	05	1050	228	628	2	05	1565	100	653	1
09	936	277	581	1	06	1180	194	676	1	06	959	266	595	1	06	1140	200	667	1
10	997	253	601	1	07	1230	176	709	1	07	890	295	573	2	07	967	246	661	2
12	1100	211	664	1	08	1227	177	692	1	08	963	260	612	1	08	1001	235	654	1
13					09	951	262	584	1	09	928	266	576	1	09	1016	229	745	1
15	910	275	515	1	10	1140	205	633	1	10	1887	060	615	1	10	940	255	694	1
16	1729	080	535	1	11	1031	240	493	1	11	1038	230	676	2	11	1388	628	628	1
17	1019	240	608	2	12	1140	205	633	1	12	1887	060	615	1	12	870	297	582	2
18	947	268	597	1	13	1031	240	493	1	13	1038	230	676	2	13	915	278	607	2
19	970	260	568	1	14	1797	075	504	1	14	1069	219	635	2	14	1707	080	601	1
20	1030	248	616	1	15	1100	207	524	1	15	1210	178	709	1	15	1120	204	755	1
21	1165	200	690	1	16	948	227	577	2	16	866	300	538	2	16	1145	200	740	1
22	1735	080	580	1	17	1040	270	670	2	17	979	255	606	2	17	1145	250	662	1
24	1114	209	652	1	18	1050	222	653	1	18	1090	214	678	2	18	991	250	615	2
26	981	248	656	1	19	1050	250	507	1	19	1004	245	646	2	19	1082	221	684	1
27	740	353	545	1	20	1208	177	662	2	20	1161	190	722	1	20	1052	242	710	2
29	964	258	565	1	21	1015	234	509	1	21	848	300	575	2	21	1155	200	695	1
30	1060	229	642	1	22	1020	238	535	2	22	1713	080	572	2	22	1155	221	690	1
31	1088	225	633	1	23	989	251	549	1	23	870	295	555	1	23	1013	224	657	1
SEPTEMBER				TYPE	OCTOBER				TYPE	NOVEMBER				DECEMBER				TYPE	
DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE
01	1053	230	672	1	01	1011	250	579	1	01	689	378	540	2	01	735	369	425	2
02	1123	206	694	1	02	950	275	565	1	02	1038	231	590	1	02	1334	150	479	1
04	1549	100	579	1	03	960	271	542	2	03	960	271	542	2	03	1410	134	480	1
05	1034	232	665	1	04	840	314	520	2	04	840	314	520	2	04	868	300	506	1
06	874	300	544	2	05	955	265	607	1	05	927	277	522	1	05	918	280	543	1
07	1093	217	667	1	06	1035	242	593	2	06	1214	185	675	1	06	910	281	592	1
08	1089	215	614	1	07	1090	222	653	1	07	980	254	556	1	07	919	282	545	1
09	820	321	567	1	08	1042	241	521	2	08	989	252	565	1	08	1129	212	626	1
10	995	245	569	1	09	899	290	532	1	09	960	232	545	1	09	1081	235	553	2
11	1227	177	762	1	10	974	255	546	1	10	929	281	511	1	10	1120	216	605	1
12					11	1040	222	652	1	11	1050	236	580	1	11	1109	224	558	1
13					12	1040	222	652	1	12	1054	223	611	1	12	1138	213	587	2
14					13	956	216	669	1	13	1056	232	586	1	13	1228	187	648	1
15					14	1020	246	669	1	14	848	313	509	1	14	1202	193	645	1
16					15	885	295	501	1	15	1000	251	595	1	15	1252	186	612	1
17					16	855	308	468	1	16	1765	080	479	1	16	1000	255	534	1
19					17	948	272	590	1	17	1054	235	588	1	17	1012	252	540	1
20					18	1013	250	535	2	18	807	331	462	1	18	1116	216	616	1
21					19	993	256	614	1	19	1516	118	494	1	19	9356	247	556	1
22					20	919	284	532	1	20	973	271							

RESULTS OF PILOT BALLOON OBSERVATIONS AT HEARD ISLAND YEAR 1951										
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES
JAN	01	05	29 15	29 09						
JAN	01	11	32 14	30 11	29 09					
JAN	03	00	29 23	28 12	27 13					
JAN	03	05	27 18	27 23	27 34					
JAN	03	11	27 18	26 17	26 27					
JAN	05	05	27 35	26 44	26 98					
JAN	05	11	23 33	23 27	22 26	22 39				
JAN	06	05	32 08	32 08	32 05	28 21				
JAN	06	17	30 20	28 31	28 32					
JAN	07	01	27 15	26 13	25 24					
JAN	08	11	27 17	23 23						
JAN	09	05	25 08	27 12	26 10					
JAN	09	23	22 10	22 10	23 14					
JAN	10	05	33 08	31 12	25 07					
JAN	10	11	33 08	32 15						
JAN	11	05	23 07	25 05	32 04					
JAN	12	11	35 02	33 09	31 03	20 04	25 09			
JAN	13	05	31 15	31 15						
JAN	13	11	30 20	28 28	29 28					
JAN	13	17	29 20	28 24	28 33	26 25				
JAN	14	05	26 16	26 10						
JAN	14	11	27 19	27 20	25 28	25 64	25 87	25 55		
JAN	14	17	27 14	27 23	26 28	26 64				
JAN	15	00	27 16	27 30						
JAN	15	05	24 10	24 21	24 27	24 36	24 31			
JAN	15	11	23 15	23 17	23 16		22 25			
JAN	15	17	22 18	22 18	23 21	23 26				
JAN	15	23	25 15	27 14						
JAN	17	11	22 23	22 19						
JAN	18	05	23 14	23 17						
JAN	18	11	22 10	22 11	22 14	23 22	24 33	25 26	28 18	26 16
JAN	20	01	20 15	19 17	21 14					
JAN	20	05	23 08	23 10						
JAN	21	01	21 20	21 17						
JAN	21	05	23 20	23 17	23 22					
JAN	21	11	20 18	20 15	21 21					
JAN	22	00	20 06	20 13	22 10					
JAN	23	11	21 24	21 30	21 35	16 10	19 52	20 56	22 04	27 20
JAN	23	17	22 12	22 12	21 12					
JAN	23	23	21 05	20 10	20 11					
JAN	24	05	00 00	23 04	25 03	18 03				
JAN	24	11	02 08	01 07						
JAN	26	11	23 22	23 28	24 31	23 38				
JAN	26	17	24 10	25 09						
JAN	28	00	21 28	22 28	21 34	21 53				
JAN	28	05	21 25	21 35	21 43	21 93	22 84			
JAN	28	11	22 14	22 13	22 24	22 37				
JAN	29	11	20 08	20 08	22 02	01 05	22 02	20 15		
JAN	30	11	31 05	31 10	31 06					
JAN	31	05	28 32	27 29						
JAN	31	17	23 18	23 23	23 25	22 34	21 44	21 40		
FEB	01	01	22 18	22 18	22 16	21 23				
FEB	01	05	23 18	24 23	24 30					
FEB	01	11	22 12	23 18	22 12					
FEB	01	17	27 08	26 07	26 11	26 17	26 18	26 16		
FEB	02	01	30 15	29 10						
FEB	03	01	27 31	25 34						
FEB	03	05	27 28	25 48	30 07					
FEB	03	11	27 29	28 09	28 31					
FEB	04	05	23 35	23 23	23 34					
FEB	04	11	24 20	23 18	23 24	23 44	22 55			
FEB	04	17	22 21	22 15	22 27					
FEB	05	01	00 00	23 02	25 03					
FEB	06	00	29 37	29 39	29 30					
FEB	06	05	29 40	30 28	27 82					
FEB	06	11	30 34	30 23	28 64					
FEB	07	01	28 18	27 39	26 33	24 32				
FEB	07	24	24 02	24 05	26 07	27 09				
FEB	08	11	00 00	07 06	06 07	01 04	08 01	22 09		
FEB	08	23	32 04	31 07	31 11					
FEB	10	05	19 14	24 07						
FEB	10	11	32 28	31 21	29 14					
FEB	10	17	00 00		01 25					
FEB	11	23	31 15	30 24	29 30					
FEB	12	05	29 15	28 09	26 13					
FEB	12	11	27 10	28 13	28 14	27 21	27 25	27 33		
FEB	13	00	29 11	28 20	26 32					
FEB	13	05	29 15	26 28	27 25					

RESULTS OF PILOT BALLOON OBSERVATIONS											
AT			HEARD ISLAND			YEAR 1951					
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES	
Jan	14	00	25 19	24 20	24 31	23	34				
Jan	14	05	23 20	24 15	24	26					
Feb	16	00	30 21	29 25	29 39	27	24				
Feb	16	11	30 27	29 25	28 54	28	43				
Feb	17	01	28 17	28 12	26 21	25	38				
Feb	17	05	29 19	28 17	27 39	26	92				
Feb	17	11	27 25	26 35	25 53						
Feb	18	11	23 40	22 14	22	20					
Feb	19	11	23 26	21 20	22	26					
Feb	20	01	25 10	25 10	24 22	23	32				
Feb	20	05	22 12	23 12	24 14	24	17				
Feb	20	11	21 07	23 07	25 11						
Feb	20	17	21 02	21 07	22 08	28	18				
Feb	22	05	24 06	25 07	25 10						
Feb	22	11	04 08	03 13	02 17						
Feb	23	05	27 25	27 48	26 65						
Feb	25	00	03 04	33 09	33 22						
Feb	25	17	25 15	26 09	26 13						
Feb	26	11	29 30	27 23	26 42						
Feb	26	17	23 18	23 21	24 24						
Mar	01	01	23 20	23 17	23 19	23	28	23	30	23	25
Mar	01	05	26 05	24 08	26 09						
Mar	01	11	31 04	32 05	30 09	27	08				
Mar	02	05	27 22	26 07	24 15						
Mar	02	11	27 20	27 11	25 25						
Mar	03	00	25 19	28 21	27 58						
Mar	03	05	26 26	25 17	25 42						
Mar	07	11	23 20	24 25							
Mar	07	17	23 20	23 21	23 26						
Mar	08	05	23 30	23 19	22 31	22	31				
Mar	08	11	22 07	21 12	24 18						
Mar	09	11	23 12	23 13	17 08						
Mar	11	01	27 18	24 12	24 19						
Mar	11	05	27 28	26 32	25 17						
Mar	12	00	27 02	25 06	25 07						
Mar	12	11	23 20	23 21	23 29						
Mar	13	05	06 08	07 13	05 11	01 14	01 05	31	05	29 09	28 16
Mar	14	00	26 25	27 15	25 14						
Mar	14	05	28 21	28 12	26 17	26	34				
Mar	14	11	30 30	29 30	28 47	26	26				
Mar	15	00	29 15	24 12	27 18						
Mar	15	05	23 18	23 13	22 16	22	24	22	27		
Mar	15	11	21 22	21 21	20 26						
Mar	15	17	21 20	21 21	20 26	21	27	21	30		
Mar	16	00	20 15	22 18	24 22						
Mar	16	05	23 15	23 16	23 22	23	26	24	24		
Mar	16	11	25 15	25 07	26 16	25	28				
Mar	16	17	29 08	29 08	25 21	24	24				
Mar	17	11	29 20	27 20	26 20						
Mar	19	00	24 15	25 16	24 24						
Mar	19	11	22 15	21 26	21 23						
Mar	19	17	22 04	21 07	21 09	21	15	21	23	21	16
Mar	20	00	00 00	00 05	29 07	29	10	29	09	27	12
Mar	20	05	31 07	32 13	32 14						
Mar	22	00	21 25	23 23							
Mar	22	05	22 18	23 13	21 16						
Mar	22	11	23 14	24 17	23 14	23	17	20	18	21	25
Mar	22	17	32 08	32 09	33 15	28	03	31	14		
Mar	23	11	25 16	24 15	26 30	26	48				
Mar	24	05	22 20	21 15	22 21						
Mar	26	00	27 20	28 08	25 25						
Mar	28	05	27 20	26 15	24 26	25	40				
Mar	28	11	28 15	23 17	24 37						
Mar	28	17	27 15	26 22	25 23						
Mar	29	01	27 19	27 23	26 13						
Mar	29	05	23 18	23 17	24 28						
Mar	30	01	22 12	23 11	24 16						
Mar	30	05	31 02	30 07	29 05						
Apr	01	05	26 12	29 18	28 18						
Apr	01	11	30 26	28 24	27 34						
Apr	02	01	26 10	26 09	26 20						
Apr	02	05	32 08	30 24	30 19	26	25	11	10	26	20
Apr	02	11	05 15	05 16	03 36						
Apr	03	11	31 25	28 23	27 26						
Apr	04	01	29 17	24 12	24 20	24	36				
Apr	04	05	27 11	27 07	25 10	26	21				

**RESULTS OF PILOT BALLOON OBSERVATIONS
AT HEARD ISLAND YEAR 1951**

MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES
APR	06	11	23 20	20 24	21 25	21 34	21 23			
APR	06	17	22 15	22 13	22 19	22 21	22 20	23 20	22 22	
APR	07	01	00 00	30 10	30 12	31 10	30 13	29 16		
APR	07	05	00 00	30 07	32 07	30 28	30 31	29 26		
APR	10	01	27 23	28 07						
APR	10	05	27 18	26 13	26 24	25 26				
APR	10	11	28 15	29 14	28 16	27 25	26 17	26 24		
APR	10	17	06 08	03 12						
APR	11	13	20 29	19 28	26					
APR	12	05	30 15	30 16	32 14	31 21				
APR	12	11	05 15	03 11	01 19	35 42	35 53	36 42	35 41	
APR	13	01	28 23	29 21	28 27	28 37				
APR	13	05	29 23	29 18	28 22					
APR	13	11	26 16	26 25	26 22	25 34				
APR	14	05	27 15	26 15	25 07					
APR	14	11	24 12	26 16	25 03					
APR	15	11	27 18	24 12	24 28					
APR	16	02	27 25	26 13	26 27					
APR	16	05	27 17	26 12	26 23					
APR	17	05	30 30	30 19	29 06					
APR	18	05	22 09	21 14	21 19	26 07	27 11	24 11	27 12	29 18
APR	18	11	07 08	05 10	05 10	04 14	03 13			
APR	19	11	30 15	28 22						
APR	20	05	30 18	28 15	26 37	26 94	26 31	26 38		
APR	20	11	29 13	27 12	27 12	26 26				
APR	21	05	28 10	27 16	26 36	26 41				
APR	21	11	28 15	29 10	28 13	27 21	26 25	26 30		
APR	22	05	05 05	10 04	35 04					
APR	22	11	27 10	26 20	26 24					
APR	25	11	22 38	22 40						
APR	26	01	26 15	26 21	26 28					
APR	26	05	28 21	26 21						
APR	26	11	24 26	24 28	24 22	24 36				
APR	28	01	28 08	28 14	26 15	25 22	25 31	25 35		
APR	28	05	27 10	27 09	26 22	25 36	25 35	25 27	25 25	
APR	28	11	28 07	27 09	27 12	26 20	26 19	26 17	27 18	27 22
APR	29	11	22 35	24 31						
APR	30	11	21 08	21 16	21 17	22 21				
MAY	01	05	26 09	28 11	26 18	25 22	25 21	26 22		
MAY	01	23	30 20	29 18	28 31					
MAY	03	11	00 00	26 07						
MAY	04	05	29 25	29 24	27 17					
MAY	04	11	28 20	28 23	26 09					
MAY	04	17	00 00	16 04	21 03					
MAY	04	23	03 05	04 07	03 10					
MAY	06	05	32 17	31 17	31 12					
MAY	06	11	31 18	31 14	29 11					
MAY	07	05	28 17	29 29	28 15					
MAY	07	11	28 09	27 10	26 19	26 33	27 38			
MAY	07	23	27 20	27 21	28 31					
MAY	08	05	27 10	25 06	24 06	25 21	25 25			
MAY	08	11	31 10	29 19	27 12					
MAY	09	17	25 20	25 14	25 21	24 22				
MAY	09	23	29 08	27 10	27 16					
MAY	13	11	00 00	33 01	01 03	35 08	33 06	27 06	25 11	
MAY	13	17	03 08	02 10	01 09					
MAY	14	11	29 23	24 15	23 47					
MAY	15	05	22 28	27 12	25 23					
MAY	16	05	23 15		24 10					
MAY	17	05	31 33	28 13	26 27					
MAY	17	11	30 32	28 38	27 12					
MAY	18	11	27 24	26 10	23 17					
MAY	19	05	29 05	31 04	30 03					
MAY	19	11	36 08	35 14	35 17	35 23				
MAY	20	05	29 18	28 11	27 20	26 35	27 39	35 26		
MAY	20	11	29 24	29 20	28 22	27 35				
MAY	22	05	27 20	26 39	23 17	25 34	25 32	25 44	25 56	
MAY	22	11	30 15	27 12	25 20					
MAY	24	05	03 08	04 02	23 05					
MAY	24	11	33 08	33 17	32 17					
MAY	24	17	04 05	33 05	32 18					
MAY	25	05	07 09	04 07						
MAY	26	05	26 08	26 05	27 06					
MAY	27	05	20 11	20 12	20 12	20 14				
MAY	27	11	19 22	19 28	19 42	20 58	19 46			
MAY	28	05	22 20	20 25	19 29	18 30				
MAY	28	11	22 10	21 15	20 19	20 20	20 21			
MAY	28	17	00 00	09 03	11 03	13 04	13 02			

RESULTS OF PILOT BALLOON OBSERVATIONS											
AT HEARD ISLAND				YEAR 1951							
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES	
MAY	29	02	07	17	07	20	06	15			
MAY	29	05	07	18	07	16	07	16	07	34	
MAY	29	11	07	23	06	21	07	28	07	60	
MAY	30	05	07	35	07	21	06	37			
MAY	30	11	07	42	07	34	06	36			
JUN	31	05	05	30	25	23	01	36			
JUN	31	11	03	20	07	18					
JUL	01	05	27	19	25	09	25	19			
JUN	01	11	27	22	26	28	25	24			
JUN	02	05	22	24	23	29	23	33			
JUN	02	23	27	12	26	09	27	12			
JUN	03	17	27	10	29	13	29	14	25	12	26 15
JUN	04	17	27	13	29	13	29	13	27	15	
JUN	05	00	29	20	28	11	27	18	26	36	
JUN	05	05	30	22	29	31	78	55	10	71	
JUN	05	11	27	24	28	32	27	37	17	07	
JUN	05	17	25	18	26	10	24	18	24	30	
JUN	05	00	24	15	25	15	24	29	24	35	
JUN	05	05	23	08	20	10	21	09	21	08	
JUN	06	11	06	10	08	15	07	15	05	20	
JUN	11	11	06	10	07	20	06	20	04	29	
JUN	12	05	27	15	27	08	26	16	25	21	
JUN	14	17	27	20	27	12	26	21			
JUN	15	11	27	15	27	14	27	13	26	23	
JUN	16	05	21	39	21	20	21	25			
JUN	16	18	27	10	26	05	26	12			
JUN	18	00	24	06	25	09	24	09			
JUN	18	05	36	04	36	12	35	15	36	13	
JUN	20	05	28	12	28	21	27	13	26	26	26 18 27 28
JUN	20	17	29	10	29	27	28	27	27	25	27 23 27 23
JUN	21	05	28	15	30	17	28	18	26	20	27 19 28 28
JUN	21	11	29	10	30	11	31	10	31	13	
JUN	21	17	00	00	34	11	33	17			
JUN	23	05	21	15	21	12	21	14	22	22	22 22 22 26 22 25
JUN	25	05	27	08	23	09	25	08	24	20	
JUN	25	11	00	00	06	05	36	06	36	15	35 13 35 10 35 09 34 08
JUN	26	00	00	00	05	02	01	05	35	03	32 02 25 06 22 05
JUN	26	11	21	05	19	14	19	16	18	08	18 16 17 16 16 12
JUN	27	05	23	15	24	13	25	08	23	24	
JUN	27	11	27	10	27	22	24	08			
JUN	28	05	22	35	25	46					
JUN	30	05	22	25	23	34	23	31			
JUN	30	11	23	20	23	16	23	20			
JUL	03	05	29	20	29	10	27	15	27	27	
JUL	04	05	04	06	05	10	04	14			
JUL	04	11	28	15	29	13	29	15			
JUL	05	11	30	22	29	14	27	28	27	44	27 30 27 29
JUL	06	11	26	15	24	22	24	23	24	21	
JUL	07	05	29	12	31	29	31	50	12	05	
JUL	07	11	23	13	23	10	22	13	23	15	
JUL	09	05	27	15	28	26	27	35			
JUL	09	11	28	30	21	21	22	37	25	55	
JUL	11	11	31	25	29	16					
JUL	12	05	23	10	24	17	23	21	22	22	22 24 25 31 25 40
JUL	12	11	00	00	33	02	35	02	36	03	31 05 29 07 29 12 27 15
JUL	12	17	29	15	29	11	28	08	27	16	
JUL	13	05	28	09	28	12	28	09	27	11	28 13
JUL	15	05	26	10	26	11	25	26	25	34	25 40
JUL	15	11	27	15	27	10	26	17			
JUL	15	17	27	10	24	14	26	09	25	20	24 26 25 31
JUL	16	00	27	14			26	11	25	21	25 20
JUL	16	05	26	14	23	13	23	13	24	17	
JUL	16	11	28	09	29	08	28	11	27	16	27 17
JUL	16	17	28	04	29	05	29	05	29	06	28 08
JUL	17	00	05	10	07	17	07	16	07	28	06 31 06 24 08 11 06 22
JUL	17	05	10	35	10	23	08	16	08	50	
JUL	20	11	27	30	26	30	24	04			
JUL	24	05	28	22	27	21	27	31	26	21	26 35
JUL	24	11	23	30	28	32	23	07			
JUL	25	05	22	15	22	14	24	12	26	27	
JUL	26	01	27	02			28	06	27	08	
JUL	26	11	30	10	29	11	28	13	27	24	
JUL	27	05	18	13	19	11	20	16	22	16	
JUL	27	11	23	05	23	07	22	08	24	08	24 12
JUL	27	17	00	00	20	04	20	05	23	04	14 06 20 03
JUL	28	00	04	04	06	05	05	07	01	05	36 08 04 09

RESULTS OF PILOT BALLOON OBSERVATIONS AT HEARD ISLAND YEAR 1951												
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES		
JU	28	11	22 10	21 11	24 09	26 09	31 12	31 06	25 06	18 09		
JU	28	17	22 10	23 04	28 09	32 10	36 10	22 05	18 18	19 20		
JU	29	00	21 13	21 11	21 10	21 12						
JU	29	05	23 10	23 09	23 13	23 12	23 16	23 18	24 17	24 16		
JU	31	11	26 23	25 10	25 25							
JU	31	18	27 08	28 07	29 10							
AB	02	11	23 18	23 14	25 16							
AB	03	00	34 05	35 10	34 13							
AB	04	00	28 09	28 10	28 17							
AB	04	05	27 16	27 16	26 20	26 30	26 33					
AB	04	11	22 25	23 31	22 22	23 48	24 42	24 32				
AB	04	17	27 06	25 05	23 07	25 11						
AB	05	00	00 00	08 04	34 07	33 14	32 19					
AB	05	05	04 05	04 08	01 12	01 18						
AB	05	11	05 12	05 17	03 10							
AB	07	05	36 12	36 17	35 19							
AB	08	05	23 18	24 25	24 32	23 40	23 50					
AB	09	05	22 20	21 15	22 21	24 35						
AB	10	05	28 29		28 21	26 34						
AB	10	11	28 26	25 11	25 32							
AB	11	17	21 18	21 19	21 22	21 34						
AB	12	00	21 20	21 22	21 28	21 30						
AB	12	05	21 20	21 19	21 24	22 33						
AB	14	05	22 22	22 20	22 26	23 78	23 95					
AB	14	11	22 26	22 23	22 42							
AB	15	05	27 20	26 21	28 32							
AB	16	00	28 16	29 11	28 20							
AB	16	11	27 18	27 11	28 19							
AB	16	17	29 21	30 18	28 24	28 24						
AB	17	05	22 28	22 15	22 22	23 25						
AB	18	05	22 30	24 26	24 36							
AB	19	11	23 29	23 23	21 46							
AB	20	05	28 18	28 07	27 26							
AB	24	11	29 30	30 28	27 33							
AB	25	05	26 17	25 11	25 31	25 35	25 37					
AB	25	25	15 18	24 17	23 27	22 24						
AB	26	05	27 12	24 18	25 10	24 32						
AB	26	11	27 14	26 11	24 14							
AB	27	11	27 20	26 09	23 31							
AB	28	00	27 05	28 06	26 12							
AB	28	05	27 22	27 28	27 18							
AB	30	05	23 25	22 15	22 25	23 46						
SP	01	11	17 06	18 06	20 08	22 09	22 07	24 09				
SP	01	17	26 04	27 09	26 10	27 10						
SP	02	05	27 10	27 13	26 12	25 33						
SP	03	05	29 18	27 10	25 23	24 29						
SP	03	11	28 29	27 25	27 36	26 31	26 36					
SP	03	17	31 20		30 23							
SP	06	05	23 19	21 13	22 38							
SP	06	11	21 20	19 23	20 25	21 35						
SP	08	05	27 15	26 23	26 35							
SP	11	17	22 15	23 21	23 29	21 30						
SP	12	00	20 12	18 13	18 17	18 06	10 03					
SP	12	05	18 13	17 21	18 21	18 24	17 12	11 02	34 06			
SP	12	11	21 12	21 09	19 09	19 11	19 13					
SP	12	17	23 18	21 14	21 10	22 22	22 26					
SP	13	05	25 10	25 12	24 28	24 38	24 39	24 37	25 46	26 39		
SP	13	11	30 10	31 09	30 07	28 16						
SP	15	05	22 03	24 09	23 14							
SP	17	05	22 15	19 20	19 26	20 30						
SP	17	11	25 05	24 13	24 12	25 05	26 06	29 15	27 21	27 23		
SP	17	17	04 15	04 13	03 16							
SP	18	11	29 18	26 12	26 24	26 41						
SP	20	11	27 05	28 09	25 07	25 08						
SP	21	11	26 21	26 11	24 25							
SP	22	05	26 18	22 09	22 18							
SP	22	11	22 20	21 13	22 24	22 34						
SP	22	17	28 02	29 08	30 07	29 12	28 18					
SP	24	01	28 26	28 26	28 29							
SP	24	05	29 21	28 20	27 18							
SP	24	11	29 23	27 19	27 26	26 30						
SP	25	01	26 14	24 14	24 41	23 28						
SP	25	05	25 07	24 12	23 21	23 21	24 20	24 28	25 26			
SP	25	11	25 03	24 06	22 16	24 21	24 22	23 26	23 29	24 34		
SP	26	11	25 15	24 16	23 28							
SP	27	05	22 23	20 23	20 19							

RESULTS OF PILOT BALLOON OBSERVATIONS AT HEARD ISLAND YEAR 1951												
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES		
SEP	30	05	30 20	25 09	23 19							
OCT	01	11	21 10	19 10	21 07	23 08						
OCT	02	01	28 24	27 27	27 47	25 17						
OCT	02	05	28 20	28 20	26 21	25 17	25 17	25 18				
OCT	02	11	27 18	26 17	25 38	24 34	24 31	26 25	26 22			
OCT	03	05	22 10	21 10	22 09	22 22						
OCT	03	11	20 10	19 17	18 28	18 29	19 31	19 33	19 35	19 38		
OCT	04	11	22 18	20 16	21 20	21 34	22 31					
OCT	06	00	27 25	28 25	28 33							
OCT	06	05	23 10	20 12	21 10	23 10	24 12	25 24	25 38	25 50		
OCT	06	11	00 00	33 02	29 06	26 06						
OCT	07	01	27 26	24 19	21 28							
OCT	07	05	30 18	26 16	27 43							
OCT	08	11	23 30	21 31	20 30	21 38	21 42	21 49				
OCT	09	11	26 20	26 33	24 36	23 32						
OCT	10	00	23 22	20 19	19 17	19 28	19 25	19 14				
OCT	10	05	16 13	18 09	19 11	19 11						
OCT	10	11	18 03	15 06	16 05	20 11	19 11	19 13	17 08	18 08		
OCT	10	17	06 07	03 04	04 05	04 09	03 15	02 13	02 11			
OCT	12	00	20 15	18 17	19 19	20 22	21 23					
OCT	12	05	25 02	24 06	26 06	25 11	25 10					
OCT	12	11	27 10	26 10	28 07							
OCT	13	05	29 21	26 16	26 18	24 34						
OCT	13	11	29 26	26 20	25 40	25 36	25 40					
OCT	14	00	29 27	29 27	28 34	28 43						
OCT	16	05	22 23	19 20	19 23							
OCT	16	11	21 15	18 15								
OCT	17	11	26 20	24 13	23 44							
OCT	18	00	27 10	28 10	27 22							
OCT	19	05	25 18	22 11	22 28							
OCT	19	11	23 21	20 18	22 16	21 19						
OCT	20	01	27 06	27 07	20 07	23 11	23 14					
OCT	20	05	26 07	23 13	23 14	24 11	26 11	26 10	24 11			
OCT	20	11	33 03	29 03	26 03	24 02	26 03	27 05	29 07			
OCT	21	05	06 05	05 08	02 08	01 09	35 13	34 06	35 02	25 05		
OCT	21	11	06 05	04 18	05 10	04 18	03 28	04 30	03 16	01 06		
OCT	22	11	06 09	03 13	01 18	34 19	35 21	36 22	36 20	01 17		
OCT	22	17	04 12	36 14	35 15	01 09	03 12					
OCT	23	01	20 02	20 09	22 09	18 06	15 06	15 09	17 13			
OCT	23	05	22 07	21 10	23 04	01 04	30 04	15 13	15 13			
OCT	23	11	20 10	09 08	15 07	04 03	15 13	16 23				
OCT	24	01	20 20	21 21	22 23							
OCT	24	05	22 15	21 17	21 21	20 21						
OCT	24	11	22 10	22 12	21 11	23 14						
OCT	24	17	31 08	30 10	30 08							
OCT	25	01	36 12	36 13	36 16							
OCT	25	05	02 12	01 10	35 12							
OCT	26	00	21 24	22 20	21 25	21 33	20 34					
OCT	26	11	27 06	28 12	25 13							
OCT	27	11	35 10	33 11	32 16							
OCT	29	01	19 18	20 22	19 21							
OCT	29	05	22 02	22 12	21 17	21 28						
OCT	29	11	31 05	33 11	03 03	28 10	27 21					
OCT	30	11	28 20	27 16								
OCT	31	11	28 18	27 12	27 15	26 23						
OCT	31	17	29 18	28 11	25 17	25 30						
NOV	01	00	29 14	27 07	25 20	25 30						
NOV	01	05	28 10	27 15	24 13	24 37						
NOV	01	11	28 12	27 36	26 69	24 82						
NOV	02	11	22 20	21 10	21 19	21 22						
NOV	03	00	27 05	23 05	24 06	24 12						
NOV	03	05	00 00	29 07	29 05	29 04	28 08					
NOV	03	11	02 12	01 14	02 18							
NOV	04	00	05 20	04 25	05 21							
NOV	04	11	23 04	22 11	22 11							
NOV	04	17	21 12	20 07	21 09	31 04	21 07	18 08	14 07	14 15		
NOV	06	00	00 00	02 02	03 03	33 05	33 06					
NOV	06	05	09 07	05 07	06 06	11 01	08 03	06 03				
NOV	06	11	09 16	08 19	08 13	13 03	27 02					
NOV	06	17	29 07	23 03	24 03	29 05						
NOV	07	05	16 12	16 11	18 03	30 02						
NOV	07	11	16 30	17 22	16 24	16 16	15 15	13 14	13 05	14 16		
NOV	08	00	20 15	22 14	23 12	23 16						
NOV	08	05	20 15	20 12	20 13	19 21	19 20	22 09				
NOV	08	11	20 10	19 04	18 15	18 05	20 01	10 01	12 01	14 10		
NOV	08	17	00 00	05 08	06 06	04 05	05 05					

RESULTS OF PILOT BALLOON OBSERVATIONS AT HEARD ISLAND YEAR 1951												
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES		
NOV	0 9	0 0	0 3 0 4	0 4 0 8	0 4	1 0	0 2 0 8	0 1 0 8				
NOV	0 9	0 5	0 5 1 0	0 3 0 8	0 3	1 0	0 1 1 2					
NOV	1 1	0 3	1 0 0 1	1 3	0 2	1 5	0 2 1 5	0 1 1 0				
NOV	1 7	0 5	0 9 0 2	1 5	0 3	1 6	0 2 1 7	0 2 1 4				
NOV	1 0	0 0	0 4 0 3	0 4 0 8	0 3	1 0	0 2 1 2	3 6 0 9				
NOV	1 0	0 5	3 5 0 3	3 5 0 9	3 5	0 6	3 5 0 6					
NOV	1 1	0 0	2 3 1 5	2 2 1 3	2 2	2 1	2 2 3 0					
NOV	1 1	0 5	2 2 1 5	2 2 1 2	2 2	2 0	2 2 2 2	2 2 2 4				
NOV	1 1	1 1	2 4 0 8	2 3 1 0	2 1	1 0	2 4 0 9					
NOV	1 2	1 1	2 3 2 6	2 2 1 8	2 2	2 2	2 2 2 8					
NOV	1 2	1 7	2 6 2 6	2 3 0 9	2 4	2 0						
NOV	1 3	0 0	2 6 1 2	2 5 1 4	2 4	2 3	2 4 3 2	2 5 3 7				
NOV	1 3	0 5	2 7 1 0	2 7 1 1	2 6	1 3	2 6 1 8	2 6 2 3	2 6 2 3	2 4 2 2	2 5 2 4	
NOV	1 3	1 1	3 0 0 6	2 8 1 7	2 7	1 2	2 5 1 1	2 5 1 8	2 6 1 4	2 6 1 2	2 6 2 1	
NOV	1 5	0 0	2 2 2 3	2 0 2 9	2 0	3 0	2 0 2 4					
NOV	1 5	0 5	2 3 2 8	2 2 1 0								
NOV	1 5	1 1	2 3 2 6	2 2 2 8	2 2	3 8	2 2 3 8	2 2 3 4	2 1 4 1	2 2 3 8	2 2 5 5	
NOV	1 5	1 7	2 3 1 4	2 2 1 8	2 2	2 3	2 2 2 9	2 2 2 8	2 2 2 2	2 2 2 8		
NOV	1 6	0 0	1 9 1 3	2 0 1 7	2 0	2 0	2 0 2 4	2 0 2 3	2 1 1 8			
NOV	1 6	0 5	2 5 0 4	2 4 0 6	2 1	0 7	2 2 1 3	2 1 2 9	2 1 2 0			
NOV	1 6	1 1	0 2 0 9	0 2 0 9	0 1	1 5						
NOV	1 7	0 5	2 8 2 0	2 6 1 6	2 6	3 0	2 6 1 7					
NOV	1 7	1 1	2 8 1 5	2 8 0 9	2 7	2 0	2 7 2 5					
NOV	1 7	1 7	3 2 1 5	3 0 1 4	3 1	1 6						
NOV	1 8	0 0	0 7 0 7	0 3 0 6	0 1	1 1						
NOV	1 8	0 5	0 8 1 0	0 5 1 2	0 5	1 4	0 5 1 2	0 4 1 3	0 5 1 4	0 6 0 9	0 5 1 0	
NOV	1 8	1 1	0 0 0 0	3 2 0 4	3 2	0 4	2 3 0 4	2 9 0 1	0 1 0 2	0 7 0 5		
NOV	1 8	1 7	2 1 2 2	1 8 2 1	1 8	2 3	1 7 2 9	1 7 3 0	1 6 2 8	1 6 2 7		
NOV	1 9	0 5	1 9 2 4	1 9 2 5	1 8	2 5	1 8 3 8	1 8 4 5	1 6 2 8	1 7 2 3		
NOV	1 9	1 1	2 1 1 8	2 1 1 2	2 0	2 2	1 9 2 4	2 0 2 3	2 0 1 8	2 0 1 8	2 0 3 4	
NOV	1 9	1 7	0 0 0 0	0 5 0 1	3 6	0 3	3 1 0 5	2 9 0 5	2 7 0 7	2 6 1 7	2 4 1 9	
NOV	2 0	1 1	2 2 1 2	2 2 1 0	2 3	0 7						
NOV	2 0	1 7	2 6 1 0	2 4 1 5	2 5	1 6						
NOV	2 1	0 0	2 7 1 2	2 4 0 8								
NOV	2 2	1 1	2 9 0 4	2 7 1 1	2 6	0 8	2 6 0 4					
NOV	2 3	0 0	2 9 1 0	2 7 1 3	2 9	0 8						
NOV	2 3	0 5	2 9 0 6	2 8 0 7	2 9	1 2	2 9 1 3					
NOV	2 3	1 7	3 0 0 9	3 0 1 3	3 0	1 9						
NOV	2 4	0 0	3 1 0 3	3 1 0 3	3 0	0 4	2 9 0 8	2 8 0 9				
NOV	2 4	0 5	3 1 0 4	3 2 0 9	3 1	0 9	2 3 0 1	2 9 0 2	3 0 0 5	2 9 1 1	2 9 1 3	
NOV	2 4	1 1	2 5 0 4	2 2 0 8	2 1	0 8	2 7 0 3	2 6 0 4	2 5 0 7	2 7 0 2	2 1 0 1	
NOV	2 4	1 7	0 0 0 0	2 2 0 6	2 2	0 7	2 1 0 8	2 2 0 5	2 5 0 3	2 6 0 2		
NOV	2 5	0 0	2 0 0 6	2 0 0 9	2 0	1 5	2 0 1 5					
NOV	2 5	0 5	2 2 1 0	2 0 0 9	1 9	0 7	2 0 1 0	2 0 0 9				
NOV	2 5	1 1	1 9 1 4	1 9 1 6	2 0	2 5	2 0 3 5	2 1 4 0	2 0 3 1	2 3 1 4	2 2 1 5	
NOV	2 7	0 0	2 3 0 4	2 3 0 4	2 5	0 4	2 8 0 5					
NOV	2 7	0 5	0 3 0 3	0 3 1 0	0 5	1 2	3 6 1 5					
NOV	2 9	1 1	3 5 1 0	3 5 1 9	3 4	2 5	3 3 3 6	3 3 4 9				
DEC	0 1	0 0	3 0 0 5	3 0 1 3	3 0	2 0						
DEC	0 1	0 5	3 2 1 0	3 2 1 8	3 1	1 7						
DEC	0 2	0 5	2 8 1 2	2 7 1 0	2 6	1 4						
DEC	0 3	0 5	3 4 0 3	3 2 0 7	3 2	0 9	3 1 1 2	3 1 1 5				
DEC	0 3	1 7	3 0 1 8	3 0 1 3	2 8	2 5						
DEC	0 4	0 5	3 1 0 5	3 1 1 1	2 9	1 5						
DEC	0 4	1 1	3 5 0 5	3 4 0 9	3 3	0 6	2 6 0 2	3 1 0 9	3 2 1 8	3 1 1 7	2 4 1 3	
DEC	0 6	0 0	2 0 1 2	2 0 1 2	2 0	1 9	1 9 1 6	2 0 1 3	2 1 1 0	2 2 1 8	2 4 1 3	
DEC	0 6	0 5	2 0 1 0	2 1 1 1	2 2	0 9	2 2 2 3					
DEC	0 6	1 1	2 2 1 0	2 2 1 4	2 2	1 7	2 2 2 0					
DEC	0 7	0 0	0 0 0 0	1 9 0 6	1 8	0 9	1 8 1 0	1 7 0 8				
DEC	0 7	0 5	2 0 0 7	1 9 0 8	1 9	1 1	1 8 0 9	1 6 0 4				
DEC	0 7	1 1	2 1 1 0	1 9 1 1	1 8	0 9	1 7 1 4	1 7 1 2	1 7 0 9	1 7 0 7		
DEC	0 8	0 0	0 1 0 5	0 4 0 7	3 6	0 8						
DEC	1 0	0 5	2 7 1 2	2 5 1 0	2 4	1 7						
DEC	1 0	1 1	2 7 1 8	2 8 1 3	2 7	2 5						
DEC	1 1	0 0	3 3 0 2	3 4 0 5	3 2	1 0	3 0 1 1					
DEC	1 1	1 1	2 1 1 0	2 1 1 4	2 2	2 0						
DEC	1 1	1 7	2 8 1 0	2 7 1 2	2 5	1 1						
DEC	1 1	2 3	2 8 1 5	2 8 1 3	2 8	1 8						
DEC	1 2	1 1	2 8 1 5	2 8 2 1	2 6	4 0	2 5 6 0					
DEC	1 2	1 7	2 5 1 5	2 2 1 1	2 5	1 1	2 5 4 5					
DEC	1 3	0 1	2 7 1 5	2 1 1 8	2 2	2 0						
DEC	1 3	0 5	2 7 1 8	2 4 1 3	2 2	2 1	2 2 2 9	2 2 3 2	2 2 3 0	2 3 2 8		
DEC	1 3	1 1	2 5 2 0	2 2 2 6	2 2	3 8						
DEC	1 4	0 0	2 2 1 9	2 2 1 5	2 1	2 0	2 1 2 4	2 1 2 3	2 1 2 5	2 2 3 7	2 2 4 0	
DEC	1 4	0 5	2 6 0 5	2 2 0 9	2 4	2 1	2 3 1 6	2 3 2 4	2 4 2 3	2 4 2 2	2 4 1 7	
DEC	1 5	1 1	0 6 1 8	0 4 2 0								
DEC	1 6	0 1	0 0 0 0	2 4 0 8	3 6	0 6	0 7 2 3					
DEC	1 8	1 1	2 2 3 0	2 2 2 9	2 1	3 4						

RESULTS OF PILOT BALLOON OBSERVATIONS AT HEARD ISLAND YEAR 1951											
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES	
DEC	19	05	26 08	22 09	22 09	26 09					
DEC	19	12	05 12	05 15	05 12	02 13					
DEC	20	11	22 22	22 23	22 28	21 36	21 33	21 35	21 40		
DEC	21	05	22 25	22 21	22 32	22 42	22 35				
DEC	21	11	23 15	22 15	24 21	23 26					
DEC	22	11	27 22	24 08	18 09						
DEC	23	00	27 08	26 11	22 18	22 24					
DEC	23	05	27 07	27 04	25 08	24 19	23 20				
DEC	23	11	27 07	26 08	27 08						
DEC	24	05	20 20	19 17	18 18						
DEC	24	11	22 15	20 15	20 20						
DEC	25	00	20 20	19 12	18 14	19 19					
DEC	25	05	23 10	22 05	22 08						
DEC	25	12	32 09	31 09	29 08	28 09	29 06				
DEC	26	11	28 20	27 13	26 08						
DEC	28	01	27 08	28 10	28 10	25 09	26 08				
DEC	28	05	00 00	18 02	22 03	29 13					
DEC	28	11	35 05	34 06	32 10	32 09					
DEC	29	11	24 20	21 19	21 36	20 32					
DEC	30	00	22 20	23 15	23 19	23 18					
DEC	30	05	26 08	24 07	25 09						
DEC	30	11	30 05	30 07	29 07	27 10	27 11				
DEC	31	05	27 19	23 09	23 21						
DEC	31	11	23 23	22 17	22 22						

RESULTS OF PILOT BALLOON OBSERVATIONS AT HEARD ISLAND YEAR 1951											
MONTH	DAY	HOUR	2100 METRES	2400 METRES	3000 METRES	3600 METRES	4500 METRES	5400 METRES	6000 METRES	7500 METRES	9000 METRES
JAN	18	11	26 17	24 13	26 15	30 17	30 25	30 23			
MAR	01	01	24 21								
MAR	13	05	27 18	26 22							
MAR	22	11	23 31	24 36	23 42						
APR	28	11	27 35	28 29							
JUN	26	11	18 11	18 12							
JUL	12	11	27 35								
JUL	17	00	05 25								
JUL	27	11	24 18								
JUL	27	17	19 07	21 14	24 12						
JUL	29	05	24 18								
SEP	17	11	27 27	27 31	28 38	28 38	27 28				
SEP	25	11	25 33	25 27							
OCT	06	05	25 58								
OCT	21	05	27 15	27 13							
OCT	21	11	34 03	01 06	28 17	28 23	27 42	26 41	27 59		
OCT	22	11	36 18	35 25							
NOV	04	17	15 18								
NOV	07	11	14 15								
NOV	08	11	14 17	15 21	16 28						
NOV	13	05	26 38	26 54							
NOV	15	11	22 77								
NOV	19	11	21 50	21 33	19 12	22 30					
NOV	24	05	30 13	30 13	31 18	33 15	32 28				
NOV	24	11	27 05	30 08	32 13	34 18	33 24	33 29	33 36		
NOV	25	11	21 17	21 16	20 14						
DEC	06	00	27 15	28 11							
DEC	14	00	23 45								
DEC	14	05	26 22								

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1951																		
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES								
JAN	01	02	31	15	34	20	33	25	31	28	31	27	30	26	29	22	30	22
JAN	03	23	29	10	28	15	27	23	28	26	27	27	27	27	26	31		
JAN	04	02	27	11	28	16	25	21	27	19	27	26	27	27	27	26	31	
JAN	04	05	31	08	31	13	29	16	28	18	28	17	28	18	28	25		
JAN	04	11	33	02	35	08	35	11	34	08	34	12	33	12	33	16	32	26
JAN	05	04	30	38	32	40	31	50	30	72								
JAN	05	07	30	25	31	29	30	39	29	50	29	54						
JAN	05	23	31	18	32	31	30	35	30	39								
JAN	06	05	31	12	31	18	30	28	30	32	30	27	29	23				
JAN	09	05	28	23	29	33	29	37	29	41	28	52						
JAN	09	23	27	18	27	19	27	27	25	39	25	35						
JAN	10	05	27	22	27	26	27	25	26	11								
JAN	10	11	25	23	26	29	25	50	25	31	25	28	25	36				
JAN	10	23	28	10	29	18	27	23	27	22	27	22	27	29	27	39		
JAN	11	05	30	17	32	24	30	31	30	33	29	33	29	30				
JAN	11	11	30	20	32	29	31	32	30	31								
JAN	12	23	27	10	28	13	27	19	25	17	25	18	26	21	27	25	27	27
JAN	13	03	28	12	29	21	28	31	28	29	28	29	28	29	28	23	28	20
JAN	13	05	28	11	29	20	28	32	28	27	28	27	28	25	28	23	28	26
JAN	13	11	28	15	29	19	29	25	28	26	27	23						
JAN	13	17	31	18	33	25	32	37	32	39	31	41	31	31	31	39		
JAN	14	17	25	18	27	24	25	24	26	27	26	25	26	26	26	31		
JAN	14	23	26	15	27	12	27	16	26	23	26	26	26	23	26	23		
JAN	15	05	26	13	27	21	26	23	26	21								
JAN	15	08	27	10	27	14	26	21	25	18	25	19	25	25	26	32	26	29
JAN	15	11	27	11	28	20	27	23	27	20	27	23						
JAN	15	17	28	24	29	31	29	32	28	39	28	43	29	59				
JAN	17	05	25	30	27	12	23	15	23	42								
JAN	17	19	24	22	25	08	24	21	23	41	24	56						
JAN	17	23	25	28	25	28	25	51										
JAN	18	05	25	35	25	20	24	41	24	65	24	51						
JAN	18	17	25	23	26	21	24	34	23	65								
JAN	20	11	27	15	28	26	27	30	27	39	27	39						
JAN	22	17	27	08	29	14	29	18	29	15	27	13	28	17	27	17		
JAN	22	23	29	12	31	19	30	21	29	26	27							
JAN	23	01	25	18	27	24	26	27	26	21	26	24	27	27	31	28	42	
JAN	23	05	27	17	29	22	28	28	28	27	28	27						
JAN	24	05	17	10	20	13	21	10	21	33								
JAN	24	17	15	06	18	12	19	12	20	17								
JAN	25	03	27	10	28	14	28	13	29	17								
JAN	25	05	26	19	28	21	28	15										
JAN	26	05	29	12	30	22	29	36	27	42	27	41	27	39				
JAN	26	18	25	14	26	17	24	15										
JAN	26	23	26	14	27	20												
JAN	27	05	25	13	27	13	24	13										
JAN	27	11	26	05	27	13	26	16	26	18	25	13	23	11	25	27	25	27
JAN	27	18	28	08	30	15	28	16	28	16	27	39						
JAN	27	23	30	08	32	15	32	18	31	21								
JAN	28	23	25	28	26	50												
JAN	29	05	26	20	26	19	25	24										
JAN	29	23	20	05	22	04	24	24	12	11	18	12	22	24	22	24	23	25
JAN	30	05	24	04	24	06	24	24	12	11								
JAN	31	05	30	08	31	15	31	24										
JAN	31	11	31	13	33	23	33	41	32	37								
JAN	31	17	32	12														
FEB	02	17	25	06	26	09	26	09	27	16	28	16	30	07	30	11		
FEB	02	23	36	04	01	10	36	10	32	10	32	13						
FEB	03	02	34	13	36	21	36	18	01	18	35	23	34	23	32	20	32	22
FEB	03	05	35	16	36	21	36	25	35	26	35	26	34	27	34	27	31	
FEB	03	23	29	10	30	19	29	23	29	22	29	21	29	26	30	23	29	22
FEB	04	05	31	17	31	18	31	25	31	27	31	20	30	27	30	29	31	27
FEB	04	17	33	10	36	18	35	23	34	26	35	29	33	28	33	25	33	26
FEB	04	23	36	10	01	17	36	19	35	21	35	22						
FEB	05	03	35	09	36	13	34	15	33	14	35	16	35	18	35	19	35	15
FEB	05	03	33	22	34	21	33	23	30	17								
FEB	05	06	05	02	03	04	35	07	36	08	36	09	35	10	35	09	34	10
FEB	05	11	14	03	15	06	12	01	16	01								
FEB	05	18	14	06	17	11	18	12	19	11	19	10	19	10	19	10	21	08
FEB	05	23	13	08	18	10	18	12	17	07	17	14	18	10	19	10	19	11
FEB	06	05	15	10	17	22	18	18	20	09	21	09	22	08				
FEB	06	17	24	02	22	03	24	04										
FEB	06	23	26	04	25	06	25	08	26	10								
FEB	07	05	30	02	33	08	33	07	29	08								
FEB	07	11	31	11	33	18	32	20	31	21	30	18	29	16	29	16	29	16
FEB	08	23	26	11	27	18	26	22	25	17								
FEB	09	05	27	10	28	16	27	15										
FEB	09	11	30	06	33	12	32	12										

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1951													
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES			
Feb	09	17	34 10	36 14	35 19	35 22							
Feb	09	23	35 16	36 20	28 23	28 28	27 27	27 27					
Feb	10	23	28 15	29 20	28 23	29 26	29 27	29 30	29 31				
Feb	11	05	28 17	30 21	29 26	29 27	29 30	29 31	29 31	29 29			
Feb	12	05	27 19	28 31	27 38	28 42	28 33	27 30	27 30	27 33	28 32		
Feb	14	05	25 27	27 35	26 45	27 39	27 32	27 44					
Feb	15	05	25 19	25 27	25 48	25 29	25 38	25 28	25 33	25 40			
Feb	15	17	29 18	30 25	30 31	29 43	28 32						
Feb	17	11	19 09	20 16	22 20	22 19	22 24						
Feb	17	17	25 16	26 17	25 33	25 32	24 36	25 37	25 37				
Feb	17	23	29 22	30 35	30 31	29 33	29 35	28 34	28 43				
Feb	19	05	26 19	26 59									
Feb	20	23	27 25	27 40	27 43	25 26							
Feb	21	05	26 17	27 31	27 39								
Feb	23	17	18 08	19 08	22 09	21 31	22 37	23 36					
Feb	23	23	24 06	25 06	21 07	22 17							
Feb	24	05	26 09	26 08	23 08	23 18							
Feb	24	11	27 08	28 13	27 14	27 17	27 21						
Feb	24	23	29 20	31 25	30 31	30 37	30 35	27 24	26 24	27 40			
Feb	25	05	26 13	27 19	26 27	26 29	27 31						
Feb	25	11	26 06	28 14	27 16	26 16	25 12						
Feb	25	17	26 07	26 11	26 12	26 12	27 14	26 27	26 21	27 21			
Feb	25	23	30 01	31 04	32 05	29 07	25 11	26 24	27 20	26 16			
Feb	26	05	30 03	32 08	30 13	32 14	28 14	26 17					
Feb	26	11	33 03	33 08	31 09								
Feb	27	23	31 14	31 21	30 25	29 20	29 24						
Feb	28	23	33 10	35 16	35 27	35 28	35 26	35 24					
Mar	01	05	34 15	35 22	35 30	34 34	34 30	34 31					
Mar	02	11	23 07	25 10	24 14	21 14	21 15	21 17	24 29	24 27			
Mar	02	17	30 06	33 12	34 12								
Mar	02	23	30 16	32 23	32 32								
Mar	03	05	30 21	32 25	31 33	30 43							
Mar	03	23	28 23	29 24	29 24	29 27	29 35	29 40	28 40				
Mar	04	05	29 22	31 21	30 20	30 25	30 25	30 26	30 29	29 33			
Mar	04	11	31 09	33 14	32 19	32 19	31 19	31 18	31 14	30 14			
Mar	04	19	35 06	36 12	36 13	35 07	35 16	35 17	34 18	33 16			
Mar	04	23	34 07	01 13	36 15	36 18							
Mar	05	23	29 36	31 48									
Mar	06	02	29 38	31 44	30 39	30 85							
Mar	06	05	30 33	31 45	30 39	30 45							
Mar	06	11	29 17	31 21	29 29	28 34							
Mar	08	05	30 40	31 40	31 45	31 67							
Mar	08	23	29 21	30 37	30 34	29 28	29 33	29 35	29 39				
Mar	09	05	29 17	31 25	31 31	29 32	29 36	29 37	29 34	29 26			
Mar	09	17	24 15	25 11	23 17	24 25	25 28						
Mar	09	23	23 11	24 14	22 26								
Mar	10	03	22 10	23 12	23 13	23 23							
Mar	10	05	25 14	27 16	26 24	25 24	25 22	24 29					
Mar	10	11	27 21	29 21	29 22	28 28	28 18	28 22	28 22	27 17			
Mar	13	03	28 10	30 16	29 20	28 24	28 24						
Mar	13	05	29 12	30 21	30 25	29 25							
Mar	13	23	29 16	30 22	30 34	29 39							
Mar	14	05	29 11	30 19	30 30								
Mar	14	17	31 16	33 23	32 27	32 27							
Mar	15	23	29 10	31 19	29 25	29 28	29 28						
Mar	16	02	29 10	31 21	30 25	29 29	29 35	29 38	30 29	30 33			
Mar	16	05	29 13	30 24	29 26	28 30	29 32	29 34					
Mar	16	11	29 17	31 22	31 27	30 33							
Mar	16	23	29 41	30 34	30 36								
Mar	17	02	28 39	29 35	28 40								
Mar	17	05	26 27	27 32	28 27	27 43							
Mar	17	23	27 53	28 36	27 53								
Mar	18	02	26 24	27 57	27 67	27 44	27 50						
Mar	18	05	27 23	29 38	29 58	29 55	28 41						
Mar	18	11	26 12	27 23	27 30	27 27	27 28						
Mar	18	23	26 16	26 27	26 17	26 24	26 30						
Mar	19	05	25 14	27 22	25 29	24 20	24 33						
Mar	19	11	23 11	23 13	23 30								
Mar	19	19	28 21	29 25	29 28	29 30	29 33	28 30	28 34				
Mar	19	23	28 22	30 32	30 36	30 32	29 31						
Mar	21	05	28 36	29 43	29 46	28 44							
Mar	21	19	28 21	29 31	29 34	29 34	29 34	29 34					
Mar	21	23	28 25	28 38	28 53	29 33	29 27						
Mar	22	20	26 11	27 17	27 35	26 24	25 21	26 30	26 35				
Mar	22	23	28 12	30 32	29 27	29 29	28 29	26 25	26 31	26 38			
Mar	23	25 21	26 29	25 45	25 45	25 29							
Mar	24	20	31 25	33 32	33 42								
Mar	24	23	32 30	33 28	33 41								

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1951													
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES			
APR	25	20	27 23	28 26	28 30	28 46	28 49						
APR	25	23	28 19	29 29	29 36	29 33	29 35						
APR	26	05	30 19	33 26	32 35	31 44	31 38						
APR	26	17	31 14	33 24	32 29	32 31	32 31	32 31					
APR	26	23	33 15	36 17	35 22	35 21	34 25	32 29					
APR	27	20	27 14	28 20	28 22	28 23	27 28	28 30	28 35	29 32	29 41		
APR	27	23	29 20	30 28	30 52	30 28	30 31	29 34	29 38	30 41			
APR	28	02	30 19	32 27	32 29	33 47							
APR	28	05	30 29	33 28	33 36	32 51							
APR	29	20	28 19	29 28	29 31	29 30	29 32	29 32	29 32	29 32			
APR	29	23	28 20	29 31	28 35	28 42	28 43	29 35					
APR	30	02	28 22	29 36	29 28	29 32	29 28	28 32					
APR	30	05	30 21	32 29	31 30	31 36	30 39	30 45	29 45				
APR	30	20	26 14	29 20	29 29	28 31	28 27	27 34	27 33	28 30			
APR	30	23	28 14	29 21	30 21	30 27	29 29	29 27	30 26				
APR	31	02	28 15	30 20	29 25	29 30	29 31	28 27	28 27	28 27			
APR	31	05	30 12	30 15	29 23	29 25	29 27	29 23	29 22	28 23			
APR	31	11	32 10	33 16	32 20	32 22	32 24						
APR	02	02	33 17	36 25	36 30								
APR	02	05	33 19	36 24									
APR	03	11	15 05		18 12	20 11	20 10	23 06	25 06	29 09			
APR	03	13	20	15 29	14 34	11 28	05 02	05 05	04 13	01 14			
APR	04	23	00 00	10 03	34 02	30 04	30 08	31 11					
APR	05	03	00 00	33 05	34 11	34 10	35 08	31 07	31 12				
APR	05	05	00 00	31 07	31 08	31 05	33 05	33 07	32 08	31 12			
APR	06	05	30 14	31 22	31 30	30 35							
APR	06	23	27 17	28 16	27 22	27 27	27 27						
APR	07	03	27 17	29 26	29 27	29 23	28 23	28 24	28 31				
APR	07	05	27 13	29 18	28 20	28 22	28 23	28 24	28 31				
APR	08	03	30 11	30 19	29 25								
APR	08	05	29 12	29 23	28 26								
APR	08	17	27 10	28 16	28 24	28 24	28 22	29 25	28 29				
APR	09	05	25 23	26 26	26 34	26 46	30 18	30 21	29 25	28 33			
APR	09	12	29 06	31 12	30 14	30 12	27 26	27 23	26 26	26 26			
APR	11	05	25 15	27 23	27 25	27 29	27 26	27 23	26 26				
APR	11	11	25 13	26 21	26 18	26 21	27 23						
APR	11	17	25 10	26 16	25 17	25 16	25 18	24 19	25 22				
APR	11	23	00 00	12 03	09 02	08 01	08 01	05 01	36 05	33 05			
APR	12	03	01 03	03 09	02 12	03 11	03 13	01 16	35 13	32 16			
APR	12	05	35 04	04 09	04 17	02 09							
APR	14	11	24 12	26 21	26 23	26 27	26 28	26 28					
APR	14	20	18 03	23 06	24 13	22 15	23 15	24 15	25 15				
APR	14	23	18 03	21 05	22 07	22 12	23 13	24 15	26 14				
APR	15	05	16 02	22 08	21 11	20 12	21 12	21 12					
APR	15	11	24 07		24 14	23 20	23 25						
APR	15	23	24 12	25 20	25 25	25 26	25 32	25 34					
APR	16	05	25 17	27 18	26 26	26 21							
APR	16	23	26 16	27 25	27 23	28 25							
APR	17	05	29 17	28 24	28 26	28 25	27 32	27 41					
APR	17	20	30 19	31 23	31 23	31 40							
APR	17	23	31 20	33 23	33 29								
APR	18	05	31 23	34 26	34 34	34 38							
APR	19	05	35 25	36 21	35 30	35 50							
APR	19	17	30 07	31 16	30 18	29 23	29 20	30 19	31 21	33 22	33 20		
APR	19	23	33 08	34 15	33 18	32 19	33 19	33 21	33 22	32 17	32 20		
APR	20	05	32 04	34 11	33 13	33 14	32 16	33 18	32 17	32 17	32 17		
APR	20	11	35 05	05 03	02 19	01 20	01 23	01 27	36 25	35 17			
APR	21	23	17 04	19 07	22 07	21 12	20 13	22 10	32 04	34 11			
APR	22	05	22 04	24 12	23 08	23 18	20 11	21 13	20 14	19 13			
APR	22	11	19 05	21 12	22 15	20 16	21 15	22 20	21 18	21 14			
APR	22	18	19 04	23 06	22 12	22 20	22 20	22 18					
APR	22	23	18 08	20 16	21 13	21 30	22 23						
APR	23	05	17 09	21 06	23 13	23 24							
APR	23	05	18 09	21 06	23 16	22 27	22 32	22 27					
APR	23	23	18 12	20 16	21 26	19 31	19 26	19 30					
APR	24	03	16 09	19 09	19 13								
APR	24	11	00 00		22 05	22 17	22 21	21 22	21 21	21 19			
APR	25	17	16 03	19 06	20 09	22 13							
APR	25	23	18 01	18 03	20 04	24 04							
APR	26	05	27 10	29 11	29 11								
APR	26	11	29 14	31 25	32 28								
APR	27	23	29 15	30 21	28 25	27 28	27 33	27 34	27 32	27 32	32 32		
APR	28	01	26 17	27 20	27 27	27 30	27 33	27 30	26 31	26 30	27 58		
APR	28	05	27 17	28 21	28 29	27 33	27 32	26 37	32 30	31 32			
APR	28	17	31 15	33 21	33 22	33 27	32 26	34 23	32 30	31 32	32 32		
APR	29	23	32 10	32 15	31 11	30 23	30 25	30 25	30 24	30 25			
APR	30	05	27 19	30 30	29 22	29 28	28 24	28 24	29 30	29 29	29 29		

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1951												
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES		
MAY	0 1	2 3	2 9 2 5	3 1 2 9	3 0 3 2	3 0 3 7	2 9 4 2	3 0 4 5				
MAY	0 2	0 5	2 8 3 0	2 9 2 9	2 9 3 6							
MAY	0 3	0 5	2 6 2 3	2 7 2 6	2 7 3 5	2 6 4 6	2 6 4 3					
MAY	0 3	2 3	2 5 3 5	2 7 1 6	2 4 2 4							
MAY	0 4	0 5	2 4 2 5	2 6 2 9	2 5 3 0	2 5 2 5	2 5 2 5					
MAY	0 7	0 5	3 2 1 6	3 5 2 3	3 4 2 2	3 3 3 4	3 3 3 9	3 3 3 5				
MAY	0 7	2 3	3 1 3 0	3 1 3 2	3 1 4 2							
MAY	0 8	0 5	2 6 1 0	2 7 1 9	2 7 2 9	2 7 1 6	2 7 1 7	2 9 2 0	3 0 2 9	3 1 3 5		
MAY	0 8	2 3	2 8 0 5	3 0 1 4	3 0 1 5	3 0 1 4	3 1 1 4	3 1 1 2	3 1 1 5	2 9 2 0		
MAY	0 9	2 3	3 0 2 5	3 0 2 8	3 0 2 9	3 0 3 4	2 9 3 5	2 8 2 6				
MAY	1 0	0 5	3 2 1 5	3 2 2 0	3 3 2 1	3 2 2 3	3 2 2 5	3 0 2 7	3 0 2 1			
MAY	1 1	2 3	3 0 2 9	3 3 3 6	3 2 4 9	3 1 5 0						
MAY	1 2	2 3	2 6 1 2	2 7 1 4	2 7 1 4	2 7 1 5						
MAY	1 3	0 5	3 4 3 0	3 4 3 3	3 4 3 0	3 4 2 5	3 4 2 8					
MAY	1 3	2 3	3 1 3 0	3 0 2 8	3 1 2 7	3 0 2 9						
MAY	1 4	0 5	2 9 3 0	3 0 3 0	3 1 2 7	3 0 2 9						
MAY	1 4	2 3	3 4 0 2	3 6 0 6	3 6 0 6	3 4 0 7	3 5 0 9	3 5 1 4	3 5 1 4	3 5 1 5		
MAY	1 7	2 3	2 4 2 0	2 7 3 2	2 7 2 6	2 5 2 8	2 5 3 7					
MAY	1 8	1 1	2 4 1 6	2 8 1 8	2 6 1 9	2 7 2 3	2 7 2 3	2 5 1 7	2 5 2 0			
MAY	1 9	2 3	2 5 1 0	2 6 1 3	2 7 1 5							
MAY	2 0	0 5	2 3 1 5	2 9 1 1	2 6 1 3							
MAY	2 1	0 5	2 6 0 9	3 0 1 5	2 9 1 4	3 0 1 5						
MAY	2 1	1 1	2 6 1 5	2 9 2 2	3 1 2 1	3 1 2 2						
MAY	2 2	0 5	2 5 2 0	2 6 2 7	2 6 3 2							
MAY	2 2	2 3	1 1 0 8	1 2 1 0	1 2 1 2							
MAY	2 3	1 7	0 0 0 0	0 0 0 0	3 5 0 1							
MAY	2 3	2 3	0 0 0 0	3 2 0 8	3 1 0 8							
MAY	2 4	0 5	3 2 0 4	0 1 1 3								
MAY	2 5	0 5	3 3 0 4	3 5 1 0	3 5 1 2							
MAY	2 5	1 1	3 6 0 3	0 2 0 9	0 2 1 9							
MAY	2 7	2 3	2 9 1 7	3 4 2 4	3 4 2 7	3 4 3 5	3 4 3 5	3 3 3 7				
MAY	2 8	0 5	2 3 1 5	2 6 2 2	2 5 2 4	2 6 1 9						
MAY	2 8	2 3	2 7 2 5	2 7 2 5	3 1 2 7	3 1 4 0						
MAY	2 9	2 3	2 8 2 0	2 7 2 5	2 7 2 4							
MAY	3 0	0 5	2 8 2 0	2 8 2 0	2 5 1 9	2 4 2 7	2 4 2 6					
MAY	3 0	1 1	2 1 0 5	2 1 0 3	2 4 1 3	2 3 1 8	2 3 1 5					
MAY	3 0	1 7	0 0 0 0	2 0 0 3	2 1 0 7	2 2 0 9						
MAY	3 0	2 3	2 9 0 3	2 9 0 6	3 0 0 5	3 3 0 6						
MAY	3 1	0 5	2 9 1 5	3 4 1 4	3 4 1 3	3 4 1 0						
MAY	3 1	1 1	3 1 1 6	3 5 2 1	3 6 2 6							
JUN	0 2	2 3	2 5 3 0	2 6 1 6	2 3 2 7	2 4 3 8						
JUN	0 3	0 5	2 5 3 0	2 4 3 5	2 4 4 8							
JUN	0 3	2 3	2 5 3 2	2 5 3 8	2 5 4 0	2 4 5 4						
JUN	0 4	2 3	2 5 2 4	2 6 3 2	2 6 3 6							
JUN	0 6	0 5	2 8 2 0	3 0 2 4	3 0 3 0	3 0 4 7						
JUN	0 7	2 3	2 6 2 0	2 6 3 1	2 6 3 9	2 7 3 6						
JUN	0 8	0 5	3 2 2 2	3 2 2 2	3 2 2 0							
JUN	0 8	2 3	2 8 2 2	2 8 2 1	2 7 3 0							
JUN	1 0	2 3	2 4 1 4	2 4 1 1	2 3 2 3	2 3 2 6	2 3 2 5	2 4 3 4	2 4 4 0			
JUN	1 1	2 3	2 5 3 5	2 7 2 4	2 6 2 1							
JUN	1 2	0 5	2 5 3 3	2 6 3 5	2 6 3 8							
JUN	1 3	0 5	2 9 3 0	2 9 3 4	3 0 3 6	2 9 3 0						
JUN	1 7	2 3	1 6 0 2	2 0 1 1	2 1 1 5	2 1 1 6	2 1 1 5	2 0 1 4	2 0 1 0	2 1 1 0		
JUN	1 9	0 5	2 6 3 0	2 6 3 3	2 5 3 5	1 9 0 5	2 3 3 2	2 3 4 5				
JUN	2 1	0 5	2 7 2 5	2 6 2 7	2 6 3 1	2 6 3 5	2 7 3 0	2 7 3 6	2 7 2 6	2 7 2 9		
JUN	2 1	1 7	2 5 1 5	2 4 1 2	2 4 1 4	2 4 2 1	3 4 2 2	2 6 2 5	2 6 2 7			
JUN	2 2	0 5	2 6 3 5	2 6 3 7	2 6 3 9	2 6 3 3						
JUN	2 2	2 3	2 8 3 7	2 9 4 4	2 9 4 9	2 2 4 0						
JUN	2 3	2 3	2 6 2 0	2 9 4 0	2 9 2 5	2 9 2 1	2 8 2 5	2 9 3 4				
JUN	2 5	2 3	2 8 2 0	3 1 1 8	3 1 3 1							
JUN	2 6	1 1	2 1 0 5	2 2 0 4	1 0 0 2							
JUN	2 8	0 5	2 4 3 0	2 4 2 8	2 4 2 7	2 4 3 4	2 5 3 7					
JUN	3 0	0 5	2 5 3 0	2 3 3 1	2 3 3 0							
JUN	3 0	1 7	2 7 2 6	2 7 4 3	2 8 3 9	2 8 3 2	2 7 3 0					
JUL	0 1	2 3	3 0 2 0	3 1 2 3	3 0 3 4	2 9 3 3						
JUL	0 2	0 5	2 9 2 8	3 0 4 0	3 0 4 0	2 9 4 5						
JUL	0 4	2 3	2 4 1 0	2 4 4 3	2 4 1 6	2 5 1 7	2 7 2 5	2 8 2 4	2 8 2 7			
JUL	0 5	0 5	2 5 0 8	2 5 1 2	2 6 1 4	2 6 1 5	2 6 1 6	2 7 1 7	2 7 1 9			
JUL	0 5	1 1	2 5 1 2	2 6 1 9	2 6 1 9	2 6 1 7						
JUL	0 5	2 3	2 5 1 2	2 5 0 8	2 4 2 4	2 5 2 6	2 4 2 6					
JUL	0 6	1 1	3 0 1 8	3 0 2 0	3 0 2 0	2 9 2 4						
JUL	0 6	1 7	3 1 2 0	3 3 2 8	3 3 2 8	3 1 4 0						
JUL	0 7	0 5	2 6 1 2	2 6 2 0	2 6 2 2	2 4 2 4	2 5 2 0					
JUL	0 7	2 3	2 9 0 5	3 0 1 3	2 9 2 0	3 0 2 3						
JUL	0 9	1 7	2 5 1 2	2 8 2 1	2 8 2 8	2 8 1 9	2 9 2 1	2 9 1 6	3 0 1 5	2 9 1 6		
JUL	0 9	2 3	2 6 1 5	2 8 2 3	2 8 1 8	2 9 2 3	2 8 2 7	2 9 2 9	3 0 1 5	2 9 1 6		

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1951												
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES		
JL	10	05	25 15	27 14	26 16	25 23	25 29	26 25	26 25	26 24		
JL	10	11	26 15	26 12	25 07	25 26	25 27	25 21	26 17			
JL	10	23	24 14	26 18	25 25	24 28						
JL	11	05	24 10	23 10	23 22	23 26						
JL	12	23	29 18	30 12	31 11							
JL	13	05	31 18	33 23	33 19							
JL	13	23	25 25	27 28	27 38	27 37	26 42	27 40	28 48			
JL	14	05	27 27	30 30	30 35	30 43						
JL	16	23	35 12	26 33	25 20	25 16						
JL	17	05	26 15	28 31	28 23	28 18						
JL	19	23	00 00	18 04	19 08	21 13						
JL	20	05	00 00	31 04	35 03	30 05	27 07	28 13	29 19	30 21		
JL	20	11	31 04	32 09	33 09	34 10	33 07	31 13	30 18	29 21		
JL	20	17	30 01	32 02	33 04	34 06	34 11	31 13	30 15	31 18		
JL	22	23	23 15	23 20	23 24	22 22						
JL	23	05	26 10	23 10	25 11							
JL	23	11	27 06	31 10	31 08	32 10	32 10	30 13	29 13	29 11		
JL	23	17	34 10	36 12	35 18	35 24	34 24					
JL	24	05	25 28	26 32	26 48	26 38	27 51	27 43				
JL	24	11	31 10	31 10	32 09	31 13	30 18					
JL	24	17	30 14	31 27	31 34	30 29						
JL	24	23	32 19	34 26	34 31	34 46	34 65					
JL	25	11	30 19	31 26	31 34	30 71						
JL	25	23	29 10	30 18	29 22	30 32	30 36	29 32				
JL	27	05	27 20	27 26	27 31							
JL	27	23	30 25	33 24	32 27	31 48						
JL	28	23	16 01	20 07	22 09	22 14						
JL	29	05	31 10	31 10	31 09	29 18						
JL	30	17	19 04	20 06	20 10	19 14	19 15	20 15				
JL	31	23	25 22	26 37	26 44	26 46	25 33					
AL	01	05	26 10	28 17	28 18	28 19	28 16	28 21	28 40	28 40		
AL	02	05	31 20	30 22	30 23							
AL	04	05	32 16	32 24	31 34							
AL	08	05	28 05	29 08	30 12	30 10	28 15	31 14	34 19	34 25		
AL	08	11	00 00	05 06	05 07	06 05	06 07	31 07	03 08	33 13		
AL	08	17	00 00	10 05	09 06	09 07	07 07	02 05	01 06			
AL	15	05	17 05	20 10								
AL	16	05	33 20	35 27	35 35							
AL	18	23	22 04	22 20	23 23	23 21						
AL	19	23	27 22	27 25	27 28	28 35						
AL	20	05	28 25	27 26	28 39							
AL	20	23	26 06	26 06	22 04	23 13	23 15	24 16				
AL	21	05	34 03	34 06	34 06	02 03	32 03	29 12	29 19	28 20		
AL	22	11	30 14	30 23	30 31							
AL	23	05	30 18	29 22	29 26							
AL	23	11	30 20	29 24	28 28	29 28	29 31	29 43				
AL	23	23	30 15	30 22	29 33	28 30	28 32					
AL	24	05	29 18	30 19	29 30	28 25	29 25					
AL	25	05	31 12	33 16	31 21	31 17	32 19	31 15				
AL	25	17	31 14	33 19	33 20	33 23	33 16					
AL	26	23	32 10	34 17	34 26	34 26	34 29	35 26	35 27	34 31		
AL	27	05	33 15	35 24	35 34							
AL	27	23	27 18	27 19	27 19							
AL	28	05	00 00	00 00	00 00	32 04	31 06	30 11	28 15			
AL	28	23	30 26	30 30	29 33	28 31						
AL	29	05	30 22	30 23	30 23	28 36						
AL	29	23	29 32	30 39	30 29	30 32	29 40	29 40	30 37	30 42		
AL	31	23	28 22	27 25	27 27	27 38						
SEP	01	05	27 20	27 23	27 25	27 28						
SEP	01	11	30 20	30 22	30 22	29 34						
SEP	04	05	27 25	28 28	28 30							
SEP	04	17	25 06	25 05	23 10	24 11	24 13					
SEP	04	23	24 03	25 02	23 04	23 08	23 13	23 13	23 15			
SEP	05	05	27 12	28 16	28 24	28 16	29 12	29 19				
SEP	05	23	28 40	29 50	29 50							
SEP	07	05	30 24	30 25	30 25	29 30						
SEP	09	05	27 30	28 30	28 34	28 43	28 41	27 46				
SEP	09	17	25 17	25 19	27 22	27 22	28 24					
SEP	09	23	30 30	30 30	30 32	30 32						
SEP	10	23	31 36	33 35	33 40	31 65						
SEP	11	05	28 36	30 40	31 45							
SEP	12	05	24 35	22 27	22 28	21 28						
SEP	13	05	27 25	26 24	26 22	26 33	26 35					
SEP	13	23	30 31	32 29	32 35							
SEP	14	05	31 26	32 22	32 36	32 37	31 38	31 36				

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1951												
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES		
SP	15	05	26 20	27 23	27 24	28 15						
SP	16	05	24 30	25 25	25 25	25 38						
SP	18	05	26 40	27 51	27 51	27 65	27 45					
SP	18	23	30 50	30 55	30 67							
SP	19	05	27 55	27 60	27 67	27 67						
SP	20	23	27 35	29 29	28 33							
SP	22	05	27 20	28 19	27 24	27 38						
SP	23	17	30 32	30 29	30 27	29 33	27 35	27 45	27 45			
SP	25	05	26 35	26 36	26 37							
SP	25	23	25 30	26 43								
SP	26	05	26 25	27 21	26 27	27 46	27 33					
SP	27	05	29 30	31 29	30 38							
SP	27	23	25 05	25 06	26 06	24 15	26 14					
SP	28	05	24 03	25 10	26 13	27 18	27 20	27 08	26 12	26 13		
SP	28	11	33 12	34 15	35 17	35 27	34 32					
SP	30	23	28 05	28 12	28 17	28 15	25 12	28 12	23 14	32 19		
OC	03	17	29 20	30 25	29 34	28 37	28 40					
OC	04	23	26 21	25 33	23 26							
OC	05	05	27 10	25 09	23 18							
OC	05	23	27 24	27 28	26 23	26 26						
OC	08	05	28 32	28 32	28 38							
OC	08	23	27 25	27 39	26 40	26 31						
OC	09	05	30 25	31 31	30 46	29 48						
OC	09	23	25 33	24 27	24 40							
OC	10	05	26 30	25 17	24 40							
OC	10	11	27 26	26 12	24 25	24 49						
OC	10	23	25 21	24 14	23 34							
OC	11	05	23 15	22 04	22 13	23 29						
OC	11	11	27 15	26 25	26 22	26 16						
OC	11	23	30 25	28 25	27 42	26 52	26 54	26 50				
OC	12	23	29 25	29 28	29 32							
OC	14	23	32 22	30 24	30 31	29 40	28 43	29 44				
OC	15	05	28 16	25 14	23 38							
OC	16	05	25 12	20 05	22 19	22 31	23 38					
OC	16	11	25 05	25 06	23 11	22 32						
OC	16	23	18 17	18 23	18 28	19 17	19 19	20 21	19 18			
OC	17	05	17 15	19 17	19 29	19 35	19 31	19 35	19 26			
OC	17	23	23 03	23 09	22 17	22 19	22 22					
OC	18	05	20 08	19 09	21 18	22 36	22 25					
OC	18	11	21 08	20 07	23 06							
OC	18	17	20 16	20 20	21 24	21 26						
OC	19	05	18 10	20 07	21 19	22 37	21 31	21 34	22 28			
OC	19	11	18 10	19 19	20 09	20 15	21 08					
OC	19	17	18 03	19 05	21 08	21 08						
OC	20	23	24 03	32 09	32 08	30 09	26 11					
OC	21	05	00 00	02 04	03 06	01 07	35 07	30 04	28 04			
OC	21	11	35 02	01 11	36 14							
OC	25	05	35 22	35 23	34 25							
OC	25	17	29 14	29 10	29 15	29 19	29 25					
OC	26	02	29 16	29 17	29 19	28 22	29 22	29 20				
OC	26	05	30 07	29 14	27 16	26 21	26 20	26 25	26 21			
OC	26	23	27 10	25 08	22 14	23 27	22 32					
OC	27	05	27 15	26 29	25 36	25 32						
OC	27	17	27 26	27 48								
OC	27	23	27 25	26 23	25 21							
OC	28	05	27 24	26 28	26 32	26 26	26 19					
OC	28	11	27 12	27 20	27 29	26 26	25 19					
OC	29	23	16 15	16 25	17 38	17 34	18 40					
OC	30	05	25 02	22 13	22 18	23 25	23 29					
OC	30	11	26 15	26 13	24 20	24 20						
OC	31	05	25 12	24 19	24 26	24 29	24 24					
OC	31	11	27 25	27 28	26 30	24 34						
OC	31	23	27 20	27 24	26 32	27 33	27 32	27 30	27 34			
NOV	01	05	27 25	27 35	27 36	27 45	27 34					
NOV	01	23	24 10	24 07	23 13	23 26						
NOV	02	05	27 14	27 19	24 19	25 28	25 35					
NOV	02	11	29 15	29 13	29 15	29 17	28 18	28 23				
NOV	04	23	22 08	21 07	23 08	23 17						
NOV	05	05	27 20	25 13	24 20	25 22						
NOV	05	11	27 16	26 14	25 24	25 20	25 25	25 25				
NOV	05	17	29 12	28 18	27 21	27 17	27 17					
NOV	05	23	00 00	02 02	02 02	03 11	32 19	32 32				
NOV	06	05	00 00	04 16	04 16	02 25	01 25	01 20				
NOV	06	23	33 18	33 20	33 33	33 29	33 32					
NOV	07	05	33 14	34 20								
NOV	07	11	34 19	34 19								

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1951												
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES		
NOV	07	23	3 4 1 6	3 3 2 2	3 3 2 3	3 2 2 4	3 2 2 8					
NOV	08	05	3 5 1 4	3 3 2 1	3 2 2 7	3 1 3 0	3 1 3 2	3 1 2 8	3 1 3 1	3 1 3 4		
NOV	08	11	3 4 1 4	3 3 1 9	3 2 2 4	3 1 2 8	3 2 2 7	3 1 2 2				
NOV	08	23	0 0 0 0	0 0 0 0	2 5 0 2							
NOV	08	23	3 3 1 8	3 2 1 8	3 1 2 8	3 0 1 7	3 1 4 3	3 1 3 1				
NOV	09	05	3 3 1 5	3 2 1 7	3 2 2 8	3 3 2 1	3 0 2 8	3 1 2 8	3 1 2 8			
NOV	09	11	3 2 1 5	3 2 2 0	3 2 2 8	3 1 3 3						
NOV	10	05	1 5 0 5	1 6 1 3	1 9 0 7	2 0 0 9						
NOV	10	23	1 7 2 2	1 7 1 9	1 8 2 2							
NOV	11	05	1 9 1 2	2 1 1 0	2 0 1 2	1 9 2 5						
NOV	11	1 1	2 0 0 6	2 3 0 5	2 2 1 1							
NOV	11	1 7	2 4 0 3	2 1 0 4	2 1 0 6							
NOV	11	2 3	0 0 0 0	0 0 0 0	0 4 0 2							
NOV	12	05	0 2 0 2	0 2 0 3	0 3 0 5	0 4 0 5						
NOV	12	1 1	3 5 0 8	3 6 0 8	0 1 0 8							
NOV	12	1 7	3 6 0 8	0 1 1 2	0 2 1 9	0 1 2 0						
NOV	12	2 3	3 4 0 7	0 2 1 0	0 3 1 7	0 2 2 1						
NOV	13	0 5	0 2 0 2	2 2 0 5	1 5							
NOV	13	1 1	0 3 1 0	0 4 1 6								
NOV	14	1 7	3 0 1 5	2 9 1 7	2 9 1 0	2 9 1 8	2 9 1 8	3 0 1 4				
NOV	14	2 3	2 7 1 2	2 7 1 5	2 7 2 2	2 8 1 8						
NOV	15	0 5	2 8 1 0	2 8 1 0	2 8 1 2	2 7 1 2						
NOV	15	1 1	0 0 0 0	0 0 0 0	0 2 0 3	3 5 0 6						
NOV	19	0 5	2 6 2 5	2 6 3 2	2 6 4 0	2 7 2 7						
NOV	19	1 1	2 9 1 8	2 9 1 9	2 8 2 8							
NOV	2 1	2 3 0 0	0 0 0 0	0 3 0 2	0 3 1 2							
NOV	2 2	0 5 1 0	0 1 0 5	0 6 0 2	0 8 0 1	0 1 0 9						
NOV	2 2	1 1 0 0	0 0 0 2	0 1 0 1	3 6 0 4	0 2 0 6	0 3 0 7					
NOV	2 2	2 3 0 0	0 3 3 0	3 0 1 0	3 1 1 0	2 7 0 6						
NOV	2 3	1 7 1 6	1 6 0 6	1 6 0 8	1 7 1 0	1 8 1 1	1 9 0 9					
NOV	2 3	2 3 1 7	0 5 1 7	0 5 1 7	1 7 0 8	2 2 0 5						
NOV	2 4	0 5 1 6	0 5 1 7	0 7 0 8	1 7 1 2	1 9 0 7						
NOV	2 4	1 1 1 8	0 2 1 8	0 5 0 5	1 7 0 9	1 9 0 7						
NOV	2 4	1 7 0 0	0 0 0 4	0 4 0 1	3 6 0 2	2 3 0 4	2 4 0 5					
NOV	2 4	2 3 3 6	0 1 0 1	0 4 0 4	0 3 0 3	3 4 0 2	2 6 1 0	2 4 0 8	3 0 0 5	2 9 0 8		
NOV	2 5	0 5 3 5	0 5 3 6	3 6 1 2	3 6 1 5	3 5 1 6	3 6 1 0	3 1 0 8	2 9 0 8			
NOV	2 5	1 1 3 6	0 9 0 2	0 2 0 5	0 3 0 9	0 1 0 9	3 5 0 9	3 4 1 1	3 1 0 9			
NOV	2 6	0 5 2 9	0 6 3 0	1 3 1 3	2 9 1 2	2 8 0 8						
NOV	2 6	1 1 3 5	0 4 3 5	1 3 1 3	3 3 1 4	3 3 1 3	3 3 1 2	3 2 1 6	3 1 1 8			
NOV	2 6	1 7 3 5	0 9 3 4	1 2 3 1	3 1 2 0	3 2 1 7	3 2 1 8	3 3 1 8	3 2 1 7			
NOV	2 6	2 3 3 6	1 0 3 4	1 5 3 3	3 3 1 8	3 2 2 0						
NOV	2 7	1 1 0 0	0 0 0 1	1 7 0 5	1 7 0 9	2 2 0 5	2 1 0 7	2 1 0 4	3 6 0 5	0 5 0 3		
NOV	2 7	1 7 1 8	0 6 1 7	1 6 1 6	1 6 1 8	1 5 2 0						
NOV	2 7	2 3 1 7	0 9 1 7	1 7 1 4	1 4 1 7	1 1 1 4						
NOV	2 8	1 1 1 8	1 5 1 7	1 7 1 2	1 4 2 1	1 3 2 0	1 2 1 7	1 2 1 9				
NOV	2 9	0 5 1 7	1 0 1 7	1 7 1 1	1 9 1 5							
NOV	2 9	2 3 2 7	1 2 2 4	0 6 2 2	2 2 0 7	2 0 1 6	1 8 1 2	1 7 0 8	1 7 1 1	1 8 1 7		
NOV	3 0	0 5 2 8	-2 0	2 7 3 0	2 5 5 4	2 5 4 0						
DEC	0 1	1 7 2 8	1 5 2 8	2 0 2 0	2 8 2 2	2 6 3 5						
DEC	0 1	2 3 2 9	2 0 2 7	2 7 2 7	2 7 3 0	2 7 3 2	2 7 2 9					
DEC	0 2	0 5 2 9	2 0 2 9	2 9 1 7	2 9 1 7	2 8 2 0	2 8 2 9	2 8 2 2				
DEC	0 2	1 1 3 4	1 0 3 4	1 2 3 4	3 4 1 2							
DEC	0 2	2 3 3 6	0 5 0 3	0 6 0 1	0 6 0 6	3 6 0 7	3 6 0 8					
DEC	0 3	0 5 3 6	0 3 3 6	0 5 0 5	3 6 0 9	3 5 0 9	3 5 0 9	3 6 1 0	3 6 1 0	3 4 0 5		
DEC	0 3	1 1 0 2	0 2 0 1	0 5 0 5	3 6 0 8	3 5 0 5	3 5 0 7	3 3 0 6	3 3 0 6	3 3 0 6		
DEC	0 3	1 7 0 0	0 0 0 0	2 7 0 7	3 0 1 2	3 3 0 8						
DEC	0 4	0 5 2 1	0 4 2 2	0 4 0 4	2 2 0 5							
DEC	0 4	1 7 2 7	2 0 2 7	2 7 2 0	2 7 2 0	2 6 2 4						
DEC	0 4	2 3 2 7	1 8 2 3	2 3 2 0	2 3 2 0	2 3 2 2						
DEC	0 5	2 3 2 2	1 5 2 1	2 1 1 7	2 0 1 8							
DEC	0 6	0 5 2 1	2 1 2 1	2 1 1 6	2 3 1 8	2 3 3 7						
DEC	0 6	1 1 1 8	1 0 1 8	1 8 1 5	1 8 2 1	1 9 1 9	1 9 2 8	1 9 3 1	2 0 2 4	1 9 2 3		
DEC	0 6	2 3 1 8	1 6 1 8	1 8 3 3	1 9 3 0							
DEC	0 7	0 5 1 8	1 8 1 8	1 7 1 8	1 8 1 7	1 9 1 1						
DEC	0 7	1 1 2 0	0 2 1 9	0 9 0 9	1 9 1 0	2 0 1 4	2 1 1 4	2 3 2 2	2 2 1 7	2 5 1 1		
DEC	0 7	1 7 0 0	0 0 0 0	0 0 0 0	2 2 0 2	2 2 0 5	2 8 0 4	2 7 0 6	2 8 0 8	2 8 0 9		
DEC	0 7	2 3 3 5	1 0 3 6	1 6 0 2	0 2 1 5	3 4 1 7						
DEC	0 8	2 3 3 6	1 8 3 6	2 4 2 4	3 6 3 1							
DEC	0 9	0 5 3 6	1 5 3 6	2 2 2 2	3 6 2 9							
DEC	1 3	0 5 0 4	0 6 0 1	1 2 0 2	3 6 1 1	3 6 1 4						
DEC	1 3	1 1 0 2	0 5 3 6	0 7 0 7	3 5 0 8	3 5 0 8						
DEC	1 3	1 7 3 3	1 0 3 3	3 3 1 0	3 4 0 8	3 3 1 2						
DEC	1 3	2 3 0 0	0 0 0 0	3 1 0 7	3 2 1 0	3 1 0 0						
DEC	1 4	0 4 3 3	1 0 3 3	1 1 0 1	3 2 1 0	3 2 1 0	3 4 1 9					
DEC	1 4	1 1 3 1	3 1 0 4	2 9 1 1	2 9 1 2	2 9 1 2						
DEC	1 4	1 7 3 3	0 5 3 0	1 1 0 1	2 8 1 9	2 9 1 9	2 9 1 9	3 0 1 5	2 9 0 6			
DEC	1 4	2 3 3 2	0 4 2 9	1 6 2 6	2 8 1 9	2 9 2 1	2 9 2 0	2 9 1 7	2 8 0 7	2 5 0 5		
DEC	1 5	0 5 3 1	0 4 2 8	0 8 0 8	2 6 0 8	2 6 1 3	2 6 1 5	2 8 1 0	3 0 0 6	2 3 0 3		

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1951											
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES	
DEC	15	11	28 0 4	25 0 8	25 0 8	28 1 4	28 1 5	28 1 6	29 1 0	32 0 4	
DEC	15	17	0 0 0 0	0 0 0 0	0 0 0 0	2 8 0 2	2 7 0 6	2 7 0 6			
DEC	15	24	0 0 0 0	3 3 0 7	3 2 0 8	3 1 0 6	3 3 0 7				
DEC	16	0 5	0 0 0 0	3 3 0 4	3 5 0 4	3 1 0 5	3 3 0 5	3 5 0 3	3 4 0 2		
DEC	16	1 1	0 0 0 0	0 2 0 3	0 1 0 5	0 1 0 6	0 1 0 4	0 1 0 3	3 6 0 3		
DEC	16	1 7	0 0 0 0	3 1 0 3	3 1 0 3	2 7 0 2	3 2 0 5	3 2 0 2	2 1 0 2		
DEC	16	2 3	0 0 0 0	3 1 0 8	2 7 0 3	2 7 0 3	2 8 0 4	2 6 0 7	2 4 1 2	2 4 1 2	
DEC	17	0 5	2 9 0 4	2 7 1 0	2 7 1 3	2 7 1 6	2 6 1 3	2 2 0 8	2 3 0 9	2 3 1 2	
DEC	19	1 7	3 3 1 0	3 2 1 4	3 2 1 6	3 1 2 3					
DEC	20	0 5	3 0 0 4	2 9 0 9	2 7 0 7	2 3 0 6					
DEC	21	0 5	2 6 1 5	2 6 0 5	2 4 0 9	2 3 1 6	2 3 2 0				
DEC	21	2 3	2 8 2 2	2 8 2 9	2 8 2 8	2 8 2 5					
DEC	22	1 1	0 0 0 0	3 0 0 5	2 8 0 8	2 6 1 1					
DEC	23	2 3	1 6 0 5	1 6 0 7	1 7 1 1	2 1 0 8	2 0 0 8	2 0 1 2	1 9 1 3		
DEC	25	0 5	2 7 1 5	2 6 2 0	2 6 3 2	2 5 6 7					
DEC	25	1 1	3 2 2 0	3 0 2 0	2 9 2 3	2 8 3 4					
DEC	27	0 5	2 9 1 8	2 8 2 3	2 8 3 0	2 8 1 8					
DEC	27	2 3	3 0 2 0	3 0 2 0	2 9 2 2						
DEC	28	0 5	3 2 2 0	3 1 2 4	3 0 3 3	3 0 3 4	3 0 2 9	3 0 3 0			
DEC	28	2 3	3 0 2 2	3 0 2 5	2 9 3 0	2 9 2 6					
DEC	29	0 5	2 6 2 2	2 8 1 4	2 7 2 5	2 6 3 4	2 7 3 5	2 7 2 8			
DEC	29	1 7	2 7 2 8	2 7 3 0	2 7 3 0						
DEC	30	0 5	2 7 2 0	2 7 1 9	2 8 2 4	2 7 2 7	2 7 2 6				

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1951											
MONTH	DAY	HOUR	2100 METRES	2400 METRES	3000 METRES	3600 METRES	4500 METRES	5400 METRES	6000 METRES	7500 METRES	9000 METRES
JAN	01	02	29 26	28 26	26 23	25 20	25 24	24 21	23 22		
JAN	04	02	25 36	25 40	25 56						
JAN	04	05	30 33	30 34							
JAN	12	23	27 26								
JAN	13	03	29 24	30 37	29 31	30 29					
JAN	13	05	28 30	29 31	31 31	30 28					
JAN	30	05	25 28	23 35							
FEB	03	02	35 20	35 22	34 29	32 21	32 20	33 23	32 24		
FEB	03	05	34 29	34 26							
FEB	03	23	29 23	29 33	30 32	30 28	31 38				
FEB	04	05	31 29								
FEB	04	17	33 33								
FEB	05	03	36 16	35 15	33 12	34 19	34 16	34 20	34 27	34 48	33 22
FEB	05	06	34 11	34 11	33 11	35 12	35 17	34 22	34 23		
FEB	05	18	20 10								
FEB	05	23	21 10	21 11	21 09	21 07	23 07	22 09			
FEB	07	11	28 16								
FEB	15	05	24 49								
FEB	24	23	28 50	29 53	29 35						
FEB	25	17	26 18	25 18							
FEB	25	23	25 15	26 14	26 13	29 11	27 11	26 17	25 12	25 13	23 11
MAR	04	05	29 32	30 35							
MAR	27	20	29 37	29 48							
MAR	27	23	30 45	31 48							
MAR	31	05	29 33	29 48	29 44						
MAR	03	11	31 12	33 12	33 29						
MAR	11	23	29 19	29 27	29 46	30 68					
MAR	12	03	32 19	30 33	30 50	30 59	30 61				
MAR	19	23	32 25	33 29							
MAR	20	05	32 23	33 26	33 30						
MAR	21	23	01 15	36 16	01 32						
MAR	22	05	22 08	32 06	34 13	05 07					
MAR	22	11	22 14	21 15							
MAR	26	01	28 38	28 47	28 51						
MAR	28	05	27 56								
MAY	08	23	30 22	31 24							
MAY	14	23	35 19	35 15							
JUN	17	23	21 11	21 16	20 18	20 13	24 15				
JUN	21	05	27 40	27 43							
JUL	09	17	29 22								
JUL	20	05	29 26	29 31	30 33						
JUL	20	17	31 19	31 24	34 30						
JUL	23	11	28 16	27 18							
AUG	08	05	35 23	35 18	36 19						
AUG	08	11	32 17	33 17	32 16	31 22	32 15				
AUG	08	17	36 09	36 08							
AUG	21	05	27 28	26 49	26 34	26 36					
SEP	28	05	25 14	27 13	28 13						
SEP	30	23	33 13	31 14	32 15	33 17	32 22	33 30	31 27		
NOV	08	05	31 30	31 25	31 26						
NOV	15	11	32 11	31 11	30 20	29 22					
NOV	27	11	17 07	19 08	09 05	08 05					
NOV	29	23	17 18	17 22	18 17						
DEC	03	05	33 06	34 07							
DEC	06	11	19 24	19 23	20 24	21 22					
DEC	07	17	28 10	29 11							
DEC	14	23	23 05	18 04							
DEC	15	05	18 06								
DEC	15	11	32 02	04 01							
DEC	16	23	27 14								
DEC	17	05	23 15	21 17							
			9600 METRES	10500 METRES	12000 METRES						
FEB	05	03	34 21	33 23	30 17						
FEB	25	23	24 06	18 04							

