

COMMONWEALTH OF AUSTRALIA
DEPARTMENT OF EXTERNAL AFFAIRS

13

AUSTRALIAN NATIONAL ANTARCTIC RESEARCH EXPEDITIONS



A.N.A.R.E. REPORTS

SERIES D

METEOROLOGY

VOLUME II

Heard And Macquarie Islands, 1949

Prepared By

THE CENTRAL OFFICE, METEOROLOGICAL BRANCH, MELBOURNE

ISSUED BY THE ANTARCTIC DIVISION, DEPARTMENT OF EXTERNAL AFFAIRS, MELBOURNE
JULY 1953

A.N.A.R.E. REPORTS

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A.N.A.R.E. REPORTS

SERIES D

METEOROLOGY

VOLUME II

E R R A T A

Page (v) Lines 23 and 24 should read 'recordings were obviously wrong and the observations listed are abstracted from the Dines Anemograph'.

Page 10. Sunshine is hours/10.

Pages 16-94. Station level pressure is Mbs/10. Sunshine is hours/10.

Page 20. The amount of total and low cloud on 13 20 is 9

Page 19. The maximum gust on 03 23 is 31 46.
" 24. " " 23 23 is 22 44.
" 32. " " 12 23 is 20 56.
" 32. " " 13 23 is 25 12.
" 33. " " 30 23 is 24 40.
" 34. " " 04 23 is 26 22.
" 37. " " 02 23 is 21 62.

Page 66. The Anemometer reading for 06 22 is 648.
" " " 08 22 is 335.
" 73 " " 05 22 is 416.
" 75 " " 30 22 should be 169.
" 76 " " 31 22 is 376.

" 72. The amount of sunshine for 30 22 is 000.
" 79. " " " 26 22 is 015.
" 79. " " " 27 22 is 012.
" 79. " " " 28 22 is 022.
" 79. " " " 29 22 is 014.
" 79. " " " 30 22 is 016.
" 80. " " " 31 22 is 012.

----oo---

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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 on Heard Island were carried out by -

A. Garriock (Meteorologist)

R.G. Smith (Observer)

O.E. Warden (Observer)

and at Macquarie Island by -

B.D. Robertson (Meteorologist)

L.N. Behn (Observer)

W.M. Denham (Observer)

3. Surface Observations:

3.1. Surface observations were taken at three hourly intervals daily from 0000 to 2100 G.M.T. with the exception of the months of January and February at Heard Island when the 2100 observations were not made.

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.
- 4.1. Radiosonde data:
- 4.1.1. Radiosonde ascents were made at both Islands at between 0800 and 0900 hours G.M.T.
- 4.1.2. Pressure is listed in whole millibars excluding the thousand figure when 1000 mbs. or above.
- 4.1.3. 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..
- 4.1.4. The mixing ratio is listed up to the 400 mb level in grams and tenths per kilogram.
- 4.1.5. 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.
- 4.1.6. 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.
- 5.1. Upper Wind Observations:
- 5.1.1. Time of commencement of upper wind observations is listed in G.M.T.
- 5.1.2. Observations are based on an assumed rate of ascent.
Directions and speed are listed for each level.
- 5.1.3. Wind direction is listed in tens of degrees.
- 5.1.4. Wind speed is listed in knots.

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.

8. The punched cards containing these data are held by the Meteorological Branch and requests for reproduction of these cards or further analyses of the data should be addressed to -

The Director,
Meteorological Branch,
Box 1289K, P.O.,
Melbourne,
Victoria,
AUSTRALIA.

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INSTRUMENTS AND OBSERVATIONAL METHODS

Atmospheric Pressure. Two mercurial barometers of Kew pattern were mounted adjacent to each other in the radio-meteorological building and one was used as a station barometer. As a routine check of this instrument, simultaneous readings of the two barometers were compared at regular intervals. A continuous record of station level pressure was obtained from a weekly barograph.

Temperature. Dry and wet bulb and maximum and minimum thermometers were mounted in a Stevenson screen. A continuous record of air temperature was given by a daily thermograph in the same screen.

Humidity. Relative humidity and dewpoint were obtained from dry and wet bulb thermometer readings. When wet-bulb temperatures were below freezing point, the wet bulb muslin was moistened with water before the synoptic hour so that a thin film of ice coated the wet bulb when the reading was taken. Continuous records of relative humidity were given by a daily hygrograph exposed in the Stevenson screen.

Wind. Continuous records of wind speed and direction were obtained from a Dines Anemograph, the vane of which was 10 meters above the station buildings (i.e. about 13 meters above the ground). An anti-freeze mixture was used in the float chamber. The twentyfour hour run of wind in miles was obtained from a cup counter anemometer. At Macquarie Island this latter instrument was destroyed by a hurricane in September 1948. A new instrument was installed in April 1949 but for the rest of the year the recordings were obviously wrong and are therefore not published in this volume.

Precipitation. Precipitation was measured by a rain gauge and a snow gauge. A continuous record of precipitation was obtained from a Casella daily pluviograph equipped with a small heating element to prevent interruption of the record during freezing conditions.

Sunshine. The duration of sunshine was measured by a Campbell-Stokes recorder.

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

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CODE FOR PRESENT WEATHER

- 00 Cloud development not observed or not observable. } Characteristic change
01 Clouds generally dissolving or becoming less developed. } of the state of sky
02 State of sky on the whole unchanged. } during the past hour.
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 } shower (s) }
- 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
65 Rain, not freezing, continuous } observation.
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
71 Continuous fall of snow flakes } of observation
72 Intermittent fall of snow flakes } moderate at time
73 Continuous fall of snow flakes } of observation
74 Intermittent fall of snow flakes } heavy at time of
75 Continuous fall of snow flakes } observation
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
88 or without rain or rain and snow mixed } - moderate or heavy
89 Shower(s) of hail, with or without rain } - slight
or rain and snow,
90 mixed, not associated with thunder } - moderate or heavy
91 Slight rain at time of observation }
92 Moderate or heavy rain at time of } - thunderstorm during the
observation. preceding hour but not
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.	}	Thunderstorm at time of observation.
99	Thunderstorm, heavy, with hail at time of observation.		

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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.

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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 1949.

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 Total Points	Mean Wind Speed knots		
		Mean			Extreme						
		Dry Bulb	Dew Point	Max	Min	Max	Min				
Jan	990.5	37.2	34.0	40.4	33.9	46.3	31.9	665	28	14.8	
Feb	1004.3	38.8	35.2	42.8	35.4	51.2	29.6	483	23	14.9	
Mar	1001.3	38.0	34.9	41.5	34.2	52.2	28.5	646	28	17.3	
Apr	997.0	37.1	33.4	40.8	33.0	57.2	26.1	715	28	17.0	
May	993.3	34.4	30.1	37.6	30.5	45.5	22.1	642	30	19.5	
June	986.6	29.9	25.2	33.2	25.1	42.8	16.7	258	25	18.6	
July	992.0	28.1	23.6	31.1	23.3	41.4	15.7	211	23	15.5	
Aug	991.6	29.5	26.0	32.7	25.2	43.0	13.0	193	29	18.6	
Sep	989.7	28.8	23.9	32.1	23.8	36.8	16.2	150	21	18.9	
Oct	993.4	31.4	26.8	34.2	27.5	38.9	18.9	414	17	18.1	
Nov	985.0	32.2	28.0	34.6	29.0	40.1	25.7	404	23	24.1	
Dec	988.2	35.3	31.7	38.4	32.5	46.8	28.8	381	25	14.0	
Year	992.7	33.4	29.4	36.6	29.4	57.2	13.0	5162	300	17.6	

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

Jan	1001.0	43.1	39.6	45.5	40.8	48.4	37.2	260	21	14.4
Feb	987.5	42.9	40.2	45.3	40.0	48.2	35.1	410	27	17.8
Mar	1000.8	41.5	38.5	43.4	38.9	46.3	31.0	278	26	20.2
Apr	996.1	40.2	36.9	41.7	36.1	47.4	31.1	336	29	21.6
May	1008.9	40.2	37.2	41.8	37.6	47.1	31.2	183	29	20.2
June	1004.2	37.8	34.8	40.2	35.2	43.4	27.7	173	29	20.2
July	994.9	35.5	32.5	38.1	32.2	42.6	22.0	311	31	18.6
Aug	992.1	36.5	32.8	39.2	32.7	42.4	27.6	318	31	20.4
Sep	994.8	36.9	33.4	40.0	33.1	44.4	21.4	407	29	21.5
Oct	999.0	39.6	36.3	41.9	36.1	46.4	34.9	352	27	16.3
Nov	997.3	40.0	37.2	42.3	37.3	45.7	32.7	294	29	16.1
Dec	993.1	42.3	39.2	45.2	39.4	49.4	37.0	384	28	11.3
Year	997.5	39.7	36.6	42.1	36.6	49.4	21.4	3706	336	18.2

FREQUENCY ANALYSIS OF STATION LEVEL
PRESSURE

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

MBS.	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
940 - 949	00	00	00	00	00	00	00	00	00	00	05	00	005
950 - 959	00	00	00	00	05	00	03	01	00	05	00	014	
960 - 969	04	00	03	00	05	13	17	11	14	07	22	08	104
970 - 979	30	00	05	13	17	28	51	44	38	37	33	31	327
980 - 989	78	33	18	48	67	86	28	37	67	43	62	84	651
990 - 999	74	46	69	50	65	61	52	54	40	50	60	74	695
1000 - 1009	16	40	84	78	45	11	33	35	25	47	18	19	451
1010 - 1019	15	51	23	21	18	06	29	25	20	33	05	01	247
1020 - 1029	00	26	11	00	00	00	07	08	05	00	00	00	057
1030 - 1039	00	00	04	00	00	00	00	00	00	00	00	00	004

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

MBS.	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
950 - 959	00	00	00	00	00	00	00	04	03	00	00	00	007
960 - 969	00	13	00	07	00	00	11	05	12	00	00	10	058
970 - 979	08	50	12	34	00	00	32	21	13	02	16	38	226
980 - 989	19	70	32	27	00	12	46	53	35	43	29	44	410
990 - 999	78	50	85	77	25	64	59	108	96	75	89	92	898
1000 - 1009	99	41	44	53	112	121	63	57	57	104	92	28	871
1010 - 1019	44	00	74	42	111	24	37	00	24	24	14	36	430
1020 - 1029	00	00	01	00	00	19	00	00	00	00	00	00	020

FREQUENCY ANALYSIS OF SCREEN TEMPERATURE

TABLE 5. HEARD ISLAND 1949

DEG.F.	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
15	00	00	00	00	00	00	00	02	00	00	00	00	002
16	00	00	00	00	00	00	00	01	00	00	00	00	001
17	00	00	00	00	00	00	00	03	01	00	00	00	004
18	00	00	00	00	00	00	00	03	00	00	00	00	006
19	00	00	00	00	00	00	01	00	02	03	00	00	006
20	00	00	00	00	00	00	02	02	00	03	00	00	007
21	00	00	00	00	00	00	04	07	04	03	00	00	018
22	00	00	00	00	00	00	02	15	05	08	00	00	030
23	00	00	00	00	00	00	02	14	05	05	01	00	027
24	00	00	00	00	00	00	06	11	10	06	02	00	035
25	00	00	00	00	00	03	10	16	09	09	00	00	047
26	00	00	00	00	00	00	16	17	06	12	02	00	053
27	00	00	00	00	00	01	15	21	09	16	08	03	000
28	00	00	00	01	00	00	15	07	10	15	05	06	000
29	00	00	00	00	00	04	24	16	19	20	27	11	000
30	00	00	01	04	09	23	16	27	20	37	22	00	159
31	00	00	02	03	08	19	14	24	16	33	40	05	164
32	01	03	02	11	19	17	19	24	32	27	47	08	210
33	03	03	09	11	32	14	18	28	22	29	34	24	227
34	09	05	10	14	37	15	09	09	08	27	21	35	199
35	27	09	17	27	43	12	03	07	04	11	13	53	226
36	42	14	12	30	21	04	05	10	04	03	01	33	179
37	48	27	43	31	19	03	02	02	00	04	03	31	213
38	42	41	33	16	06	01	00	00	00	01	06	20	166
39	22	29	37	19	05	01	00	00	00	00	03	02	118
40	14	24	17	08	04	01	02	00	00	00	00	02	072
41	04	10	16	08	01	02	00	01	00	00	00	01	043
42	03	07	04	09	05	01	00	00	00	00	00	02	031
43	01	07	03	07	00	00	00	00	00	00	00	01	019
44	00	07	03	06	00	00	00	00	00	00	00	00	016
45	01	05	03	02	00	00	00	00	00	00	00	00	011
46	00	03	00	00	00	00	00	00	00	00	00	00	003
47	00	00	03	00	00	00	00	00	00	00	00	00	003
48	00	01	01	00	00	00	00	00	00	00	00	00	002
49	00	01	01	01	00	00	00	00	00	00	00	00	003
50	00	00	00	01	00	00	00	00	00	00	00	00	001
54	00	00	00	01	00	00	00	00	00	00	00	00	001

TABLE 6. MACQUARIE ISLAND 1949

DEG.F.	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
23	00	00	00	00	00	00	00	01	00	00	00	00	001
24	00	00	00	00	00	00	00	00	01	00	00	00	001
25	00	00	00	00	00	00	00	04	00	06	00	00	010
26	00	00	00	00	00	00	00	05	00	03	00	00	008
27	00	00	00	00	00	00	00	02	01	04	00	00	007
28	00	00	00	00	00	00	03	06	01	05	00	00	015
29	00	00	00	00	00	00	03	11	03	05	00	00	022
30	00	00	00	00	00	00	06	11	05	05	00	00	027
31	00	00	00	00	01	01	13	08	02	01	00	00	026
32	00	00	01	02	01	00	15	25	07	01	01	00	053
33	00	00	02	03	03	07	09	24	07	01	02	00	058
34	00	00	04	07	02	15	08	14	04	05	03	00	062
35	00	00	03	07	13	13	21	25	24	14	02	03	125
36	00	00	05	10	09	18	20	07	22	25	02	00	125
37	00	02	18	19	15	23	20	24	20	29	11	07	199
38	03	07	07	22	17	35	23	26	25	15	00	10	225
39	01	08	12	18	22	28	30	18	15	21	00	19	215
40	14	15	25	31	41	49	29	28	22	25	00	26	337
41	43	23	25	29	57	30	18	24	40	25	00	33	389
42	31	32	29	35	17	07	02	14	20	40	00	26	276
43	47	45	51	26	21	02	00	00	02	28	00	28	281
44	45	36	37	19	12	00	00	00	01	16	00	34	210
45	45	38	24	09	14	00	00	01	00	02	00	42	180
46	12	14	05	03	03	00	00	00	00	00	00	14	051
47	04	03	00	00	00	00	00	00	00	00	00	05	012
48	03	01	00	00	00	00	00	00	00	00	00	01	005

FREQUENCY ANALYSIS OF EXTREME SCREEN
TEMPERATURE

TABLE 7.

DEG. F.	MAXIMUM		MINIMUM	
	HEARD ISLAND	MACQUARIE ISLAND	HEARD ISLAND	MACQUARIE ISLAND
13			01	00
15			01	00
16			05	00
17			02	00
18			06	00
19			07	00
20			04	00
21			05	01
22			13	01
23			9	01
24	02	00	11	01
25	07	00	14	04
26	02	00	15	03
27	07	00	21	02
28	03	01	20	06
29	04	01	37	03
30	09	01	23	12
31	19	01	22	14
32	17	02	30	11
33	28	03	35	15
34	32	03	25	19
35	31	05	23	40
36	25	04	22	28
37	26	10	05	30
38	15	14	05	33
39	34	24	00	42
40	28	29	01	32
41	23	50	02	24
42	12	43	01	15
43	12	34	00	17
44	08	39	00	08
45	08	43	00	03
46	03	33		
47	02	17		
48	00	07		
49	03	01		
50	01	00		
51	01	00		
52	02	00		
57	01	00		

FREQUENCY ANALYSIS OF TEMPERATURE V. DEW-POINT DEPRESSION

TABLE 8. HEARD ISLAND JAN TO DEC 1949

DEW-POINT DEPRESSION

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	15	001	00	00	00	00	00	00	00	00	00	01	00	00	00	00	00	00	00
	16	000	00	00	00	01	00	00	00	00	00	00	00	00	00	00	00	00	00
	17	000	01	00	00	01	01	00	00	01	00	00	00	00	00	00	00	00	00
	18	000	03	00	01	02	00	00	00	00	00	00	00	00	00	00	00	00	00
	19	000	01	00	02	01	02	00	00	00	00	00	00	00	00	00	00	00	00
	20	001	00	01	01	01	01	02	00	00	00	00	00	00	00	00	00	00	00
	21	000	03	03	02	03	00	00	01	03	00	02	00	00	01	00	01	00	00
	22	000	03	02	04	01	05	01	04	05	01	01	03	00	00	00	00	00	00
	23	002	03	02	06	01	05	01	03	01	00	00	00	03	00	00	00	00	00
	24	000	01	03	06	05	06	03	07	01	01	00	01	00	01	00	00	00	00
	25	001	03	05	05	03	05	05	06	07	06	00	01	00	00	00	00	00	00
	26	003	05	05	04	03	05	04	11	02	02	02	06	01	00	00	00	00	00
	27	002	08	06	05	11	09	12	07	03	04	02	01	02	00	00	00	01	00
	28	005	03	05	08	09	10	09	03	03	02	02	00	00	00	00	00	00	00
	29	009	11	11	19	12	06	16	11	07	07	08	01	01	01	00	01	00	00
	30	014	23	06	22	18	12	20	15	08	10	08	02	01	00	00	00	00	00
D R Y																			
B U L B	31	017	19	16	33	13	15	19	10	09	07	03	02	01	00	00	00	00	00
	32	023	45	18	32	12	16	20	15	15	07	02	03	01	00	01	00	00	00
	33	021	31	36	47	22	16	27	07	06	10	01	00	01	02	00	00	00	00
	34	019	22	35	29	16	17	30	07	08	10	02	02	01	01	00	00	00	00
	35	013	35	26	41	18	22	30	10	22	04	02	02	01	00	00	00	00	00
	36	019	24	21	40	16	17	19	06	09	06	00	00	02	00	00	00	00	00
	37	026	23	26	40	18	24	24	12	08	10	00	01	01	00	00	00	00	00
	38	011	15	17	37	19	18	23	10	09	03	03	00	00	00	00	01	00	00
	39	023	07	14	19	18	07	10	07	08	03	00	01	02	00	00	00	00	00
	40	015	12	07	12	04	06	03	02	09	00	01	01	00	00	00	00	00	00
	41	015	10	09	02	00	01	03	01	02	00	00	00	00	00	00	00	00	00
	42	008	03	07	06	01	02	02	00	01	00	00	00	00	00	00	00	00	00
	43	009	03	01	02	00	02	01	00	00	00	00	01	00	00	00	00	00	00
	44	001	05	07	02	00	00	01	00	00	00	00	00	00	00	00	00	00	00
	45	001	03	05	01	00	01	00	00	00	00	00	00	00	00	00	00	00	00
	46	000	00	00	00	00	00	03	00	00	00	00	00	00	00	00	00	00	00
	47	000	02	01	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	48	000	00	00	00	01	00	00	00	00	00	00	00	00	00	00	00	00	00
	49	000	00	01	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	50	000	00	00	01	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	54	000	00	00	00	00	00	00	01	00	00	00	00	00	00	00	00	00	00

TABLE 9. MACQUARIE ISLAND JAN TO DEC 1949

DEW-POINT DEPRESSION

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	23	000	00	01	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	24	000	00	00	00	00	01	00	00	00	00	00	00	00	00	00	00	00	00
	25	000	00	01	01	01	01	00	01	00	01	00	01	00	00	00	00	00	00
	26	000	00	00	02	00	01	01	01	02	00	00	01	00	00	00	00	00	00
	27	001	00	00	00	01	02	01	01	00	01	00	00	00	00	00	00	00	00
	28	002	01	02	03	00	02	00	02	01	02	00	00	00	00	00	00	00	00
	29	001	03	00	03	01	03	03	02	02	02	00	01	00	00	00	01	00	00
	30	000	03	01	03	02	03	03	02	04	03	00	00	02	00	00	00	00	00
D R Y																			
B U L B	31	000	01	03	03	02	06	03	02	00	02	02	00	00	01	00	01	00	00
	32	004	06	03	05	04	05	09	04	03	01	04	02	00	01	02	00	00	00
	33	005	07	06	06	03	04	10	01	04	06	02	01	02	02	00	00	00	00
	34	011	12	03	05	07	08	04	03	04	02	01	02	00	00	00	00	00	00
	35	011	11	08	14	06	10	22	08	03	16	05	02	05	02	02	00	00	00
	36	011	19	14	15	03	11	14	04	05	13	06	02	06	01	00	01	00	00
	37	021	23	20	25	19	10	26	12	13	16	03	04	04	01	01	00	01	00
	38	044	28	29	26	11	08	25	22	19	05	01	05	01	00	01	00	00	00
	39	045	27	31	29	10	16	23	10	14	02	00	06	01	00	01	00	00	00
	40	111	45	63	17	17	34	13	06	17	03	06	01	01	00	02	00	00	00
	41	122	63	65	22	21	45	20	17	11	01	01	03	00	00	00	00	00	00
	42	082	43	68	11	11	25	05	09	12	04	03	02	00	01	00	00	00	00
	43	082	54	66	11	16	17	07	04	11	04	02	06	00	01	01	00	00	00
	44	080	41	35	12	05	14	05	10	03	00	03	00	00	01	01	00	00	00
	45	081	35	29	06	07	08	02	08	01	00	02	00	00	00	00	00	00	00
	46	021	02	14	03	04	00	01	04	00	00	02	00	00	00	00	00	00	00
	47	001	02	01	02	04	01	00	00	00	01	00	00	00	00	00	00	00	00
	48	001	00	00	01	01	00	00	01	00	00	00	00	00	00	00	00	00	00

FREQUENCY ANALYSIS OF SURFACE WIND DIRECTION

TABLE 10. HEARD ISLAND 1949

DIRECTION	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
CALM	03	01	02	05	01	09	06	04	06	12	09	14	072
360-020	15	05	08	14	08	05	04	05	09	09	06	06	094
030-050	18	14	08	07	03	04	10	06	08	08	05	10	101
060-080	08	29	10	14	09	09	14	25	09	14	10	31	182
090-110	02	04	07	15	02	13	11	02	02	08	10	08	084
120-140	00	01	00	01	00	01	00	01	02	00	00	00	006
150-170	02	00	00	02	00	01	05	03	00	00	03	00	016
180-200	24	02	02	04	01	09	38	06	22	03	05	05	121
210-230	30	34	35	22	19	38	37	54	37	33	37	25	401
240-260	24	42	50	41	51	36	22	15	26	43	44	30	424
270-290	59	29	40	31	45	40	40	62	57	36	47	34	520
300-320	22	24	42	42	62	40	24	26	28	39	29	37	415
330-350	10	11	13	12	16	05	06	08	04	12	05	17	119

TABLE 11. MACQUARIE ISLAND 1949

DIRECTION	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
CALM	10	08	01	04	05	04	05	10	01	04	02	16	070
360-020	16	11	07	03	07	10	14	03	00	06	00	15	092
030-050	02	02	00	00	00	00	01	00	00	04	00	00	009
060-080	02	00	00	00	01	00	00	00	00	03	00	03	009
090-110	07	01	00	00	00	00	02	01	00	06	04	34	055
120-140	05	00	00	00	02	00	01	01	09	19	06	07	050
150-170	26	04	03	05	03	02	07	01	06	30	05	02	094
180-200	06	08	15	22	05	12	20	08	04	05	03	06	114
210-230	08	00	04	06	06	07	18	08	14	04	05	12	092
240-260	25	13	36	18	11	17	27	08	47	18	37	21	276
270-290	71	58	80	83	67	108	77	98	62	51	79	51	885
300-320	42	66	76	76	104	53	59	56	79	63	65	52	791
330-350	28	53	26	23	37	27	17	54	18	35	34	29	381

ANALYSIS OF SURFACE WIND SPEED

TABLE 12. HEARD ISLAND 1949

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

TABLE 13. MACQUARIE ISLAND 1949

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

FREQUENCY ANALYSIS OF SPEED OF MAXIMUM
DAILY GUST OF SURFACE WIND

TABLE 14. HEARD ISLAND 1949

KNOTS	JAN	FEB	MAR	APR	MAY	JNE	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
10-19	00	00	00	00	00	00	00	00	00	02	00	01	003
20-29	07	09	03	04	00	01	08	04	03	02	00	07	048
30-39	07	08	08	03	02	05	09	07	05	07	06	09	076
40-49	11	07	10	11	14	07	09	09	07	06	05	07	103
50-59	06	01	06	06	08	08	05	07	04	07	04	06	068
60-69	00	00	01	06	03	04	00	02	09	04	07	01	037
70-79	00	01	02	00	04	02	00	01	01	02	06	00	019
80-89	00	01	00	00	00	00	00	00	01	01	02	00	005

TABLE 15. MACQUARIE ISLAND 1949

KNOTS	JAN	FEB	MAR	APR	MAY	JNE	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
01-09	00	00	00	00	00	00	00	00	00	01	00	00	001
10-19	03	00	00	00	02	02	00	00	00	04	02	05	018
20-29	05	07	04	03	05	05	06	03	01	07	10	15	071
30-39	15	06	10	07	14	05	09	06	04	08	09	09	102
40-49	07	10	11	16	08	09	10	09	12	10	08	02	112
50-59	01	04	05	01	02	07	03	09	12	00	00	00	044
60-69	00	01	01	03	00	01	03	01	00	01	01	00	012
70-79	00	00	00	00	00	01	00	03	01	00	00	00	005

FREQUENCY ANALYSIS OF DAILY PRECIPITATION

TABLE 16. HEARD ISLAND 1949

POINTS	JAN	FEB	MAR	APR	MAY	JNE	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
NIL	02	05	03	02	01	06	10	12	11	14	07	07	080
001-009	11	10	14	10	17	15	14	12	12	08	12	11	146
010-019	05	05	02	06	06	03	03	04	05	04	05	06	054
020-029	05	02	05	04	01	04	02	00	02	00	01	03	029
030-039	01	00	03	01	01	02	01	01	00	01	03	01	015
040-049	02	02	01	03	01	00	00	00	00	01	00	01	011
050-059	02	01	01	00	01	00	01	01	00	00	00	01	008
060-069	02	02	00	01	01	00	00	00	00	00	01	01	008
070-079	01	00	00	01	00	00	00	01	00	00	00	00	003
080-089	00	01	01	01	01	00	00	00	00	01	00	00	005
090-099	00	00	00	00	01	00	00	00	00	01	01	00	003
100-109	00	00	00	01	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	01	00	00	00	00	00	00	01	00	00	002

TABLE 17. MACQUARIE ISLAND 1949

POINTS	JAN	FEB	MAR	APR	MAY	JNE	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
NIL	10	01	05	01	02	01	00	00	01	04	01	03	029
001-009	13	15	16	16	25	23	22	17	14	16	19	19	215
010-019	02	05	06	07	02	06	03	10	08	06	05	02	062
020-029	04	04	01	04	01	00	03	03	04	01	04	04	033
030-039	01	01	03	01	00	00	02	01	02	00	00	01	012
040-049	01	01	00	01	01	00	01	00	00	02	01	00	008
050-059	00	00	00	00	00	00	00	00	00	01	00	01	002
060-069	00	00	00	00	00	00	00	00	00	01	00	00	001
070-079	00	00	00	00	00	00	00	00	00	00	00	00	000
080-089	00	00	00	00	00	00	00	00	01	00	00	00	001
090-099	00	01	00	00	00	00	00	00	00	00	00	00	001
100-109	00	00	00	00	00	00	00	00	00	00	00	00	000
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	01	001

FREQUENCY ANALYSIS OF DAILY SUNSHINE DURATION

TABLE 18. HEARD ISLAND 1949.

HOURS	JAN	FEB	MAR	APR	MAY	JNE	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
NIL	10	09	10	11	10	10	14	11	07	11	15	08	126
01 - 09	05	07	05	07	08	09	04	11	04	03	06	07	076
10 - 19	07	01	02	05	03	05	01	02	04	02	04	06	042
20 - 29	04	02	05	02	05	05	05	03	05	04	01	04	045
30 - 39	00	02	01	02	02	00	02	04	01	02	01	02	019
40 - 49	02	00	05	01	01	01	04	00	03	01	00	02	020
50 - 59	00	02	01	02	00	00	01	00	01	03	00	01	011
60 - 69	01	01	00	00	01	00	00	00	00	02	02	01	008
70 - 79	00	00	01	00	00	00	00	00	00	01	00	00	002
80 - 89	00	01	00	00	00	00	00	00	00	00	01	00	002
90 - 99	01	03	01	00	00	00	00	00	01	02	00	00	008
100 - 109	01	00	00	00	00	00	00	00	00	00	00	00	001

TABLE 19. MACQUARIE ISLAND 1949

HOURS	JAN	FEB	MAR	APR	MAY	JNE	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
NIL	06	02	07	08	12	11	14	04	06	06	04	07	087
01 - 09	03	01	03	08	08	12	08	06	03	02	08	01	063
10 - 19	01	01	05	05	04	03	04	08	03	05	04	02	045
20 - 29	05	04	05	03	05	01	04	06	04	02	02	07	048
30 - 39	04	01	03	01	01	01	00	00	08	01	05	02	027
40 - 49	05	03	01	04	01	00	01	01	04	04	04	05	033
50 - 59	01	04	04	01	00	01	00	00	00	04	02	04	021
60 - 69	01	03	01	00	00	00	00	00	00	02	00	02	009
70 - 79	02	06	02	00	00	00	00	00	00	03	00	00	013
80 - 89	01	02	00	00	00	00	00	00	01	00	01	01	006
90 - 99	01	01	00	00	00	00	00	00	00	00	00	00	002
100 - 109	00	00	00	00	00	00	00	00	01	01	00	00	002
110 - 119	01	00	00	00	00	00	00	00	00	01	00	00	002

FREQUENCY ANALYSIS OF UPPER AIR TEMPERATURE

TABLE 20. HEARD ISLAND 1949. 850 MB

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-25	-	-21	00	00	00	00	00	00	01	00	00	00	00	001
-20	-	-16	00	00	00	00	00	01	02	01	02	01	00	007
-15	-	-11	00	01	00	03	05	14	13	08	13	09	04	01
-10	-	-6	16	04	12	13	19	11	09	13	10	11	18	15
-5	-	0	10	09	09	06	03	01	05	06	02	06	07	13
0	-	+4	03	06	03	05	04	02	01	00	01	00	00	025
+5	-	+9	02	01	03	02	00	00	00	00	00	00	00	008
+10	-	+14	00	04	02	01	00	00	00	00	00	00	00	007

TABLE 21. MACQUARIE ISLAND 1949. 850 MB

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-15	-	-11	00	00	00	00	00	06	03	04	00	00	01	014
-10	-	-6	02	00	06	01	05	05	05	07	08	05	03	059
-5	-	0	17	22	11	13	12	10	18	13	14	14	11	163
0	-	+4	09	02	03	05	06	04	01	00	04	07	05	03
+5	-	+9	01	00	01	01	01	00	00	01	00	00	02	00

TABLE 22. HEARD ISLAND 1949. 700 MB

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-35	-	-31	00	00	00	00	00	00	01	00	00	00	00	001
-30	-	-26	00	00	00	00	00	01	02	01	02	01	00	007
-25	-	-21	00	00	01	00	02	12	09	05	10	02	00	041
-20	-	-16	04	03	05	08	15	07	11	10	07	09	10	07
-15	-	-11	14	07	06	07	04	02	04	04	05	07	08	11
-10	-	-6	08	02	04	06	04	03	04	07	03	08	10	08
-5	-	0	03	09	08	06	04	02	00	01	00	01	01	03
0	-	+4	02	04	03	02	00	00	00	00	00	00	00	011
+5	-	+9	00	00	01	00	00	00	00	00	00	00	00	001

TABLE 23. MACQUARIE ISLAND 1949. 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	01	00	00	00	02	04	01	00	00	008
-20	-	-16	00	01	03	02	02	02	04	03	08	02	03	031
-15	-	-11	07	14	07	04	04	04	15	14	05	08	05	05
-10	-	-6	13	09	06	11	14	13	09	06	11	14	08	07
-5	-	0	09	00	04	03	04	00	00	01	03	05	07	02

FREQUENCY ANALYSIS OF UPPER AIR TEMPERATURE

TABLE 24. HEARD ISLAND 1949. 500 MB

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-50	-	-46	00	00	00	00	00	01	00	00	00	00	00	001
-45	-	-41	00	00	00	01	00	02	03	02	02	01	00	011
-40	-	-36	00	00	00	02	04	07	12	07	10	03	01	046
-35	-	-31	05	04	03	06	08	05	05	05	08	07	04	02
-30	-	-26	12	04	07	02	07	05	02	09	05	09	12	092
-25	-	-21	07	03	06	07	06	05	06	06	02	07	10	072
-20	-	-16	05	07	04	05	03	01	00	00	00	01	01	029
-15	-	-11	01	04	04	03	00	00	00	00	00	00	00	012
-10	-	-6	00	01	00	00	00	00	00	00	00	00	00	001

TABLE 25. MACQUARIE ISLAND 1949. 500 MB

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-45	-	-41	00	00	00	00	00	00	01	00	00	00	00	001
-40	-	-36	00	00	02	00	00	00	01	02	04	00	01	011
-35	-	-31	00	05	03	03	02	00	07	06	04	00	03	02
-30	-	-26	05	12	02	05	05	13	17	12	11	09	04	04
-25	-	-21	09	06	06	09	16	05	04	04	09	17	11	06
-15	-	-11	03	00	00	00	00	00	00	00	00	00	02	005
-20	-	-16	10	01	05	03	01	00	01	01	01	03	02	030

TABLE 26. HEARD ISLAND 1949. 300 MB

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-65	-	-61	00	00	00	00	01	02	02	01	02	00	00	008
-60	-	-56	00	00	00	00	04	05	10	08	03	00	00	031
-55	-	-51	05	02	00	06	11	12	13	13	13	11	13	109
-50	-	-46	08	05	09	10	07	03	01	03	03	10	10	082
-45	-	-41	12	10	10	05	01	00	00	00	01	03	02	047
-40	-	-36	03	03	03	02	00	00	00	00	00	01	01	014
-35	-	-31	00	01	00	00	00	00	00	00	00	00	00	001

TABLE 27. MACQUARIE ISLAND 1949. 300 MB

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-60	-	-56	00	00	00	00	00	02	05	06	01	00	00	014
-55	-	-51	02	04	04	03	12	12	14	14	14	10	02	097
-50	-	-46	11	08	07	12	11	02	10	06	10	17	13	081
-45	-	-41	12	09	07	03	00	00	00	00	01	02	06	041
-40	-	-36	02	02	00	00	00	00	00	00	00	00	00	004

FREQUENCY ANALYSIS OF UPPER AIR TEMPERATURE

TABLE 28. HEARD ISLAND 1949. 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	02	01	00	00	00	00
-70	-	-66	00	00	00	01	00	01	02	02	01	01	00	00
-65	-	-61	00	00	01	03	03	04	06	05	02	01	00	01
-60	-	-56	03	04	05	02	04	03	08	07	04	02	01	02
-55	-	-51	00	03	03	05	05	07	03	05	07	07	06	03
-50	-	-46	04	02	03	06	07	05	01	03	05	06	10	05
-45	-	-41	07	08	07	04	00	00	00	00	02	05	07	13
-40	-	-36	09	00	01	01	00	00	00	00	00	01	00	02
														014

TABLE 29. MACQUARIE ISLAND 1949. 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	02	01	00	00	00	00
-70	-	-66	00	00	00	02	02	03	02	04	01	00	00	00
-65	-	-61	01	00	03	01	09	03	03	01	02	00	01	00
-60	-	-56	02	00	02	04	05	04	05	07	03	01	03	00
-55	-	-51	07	01	03	02	05	03	09	06	05	07	06	05
-50	-	-46	08	07	04	03	01	02	08	04	10	13	05	04
-45	-	-41	08	10	02	04	00	00	00	01	03	07	04	06
-40	-	-36	00	05	02	00	00	00	00	00	00	00	00	00
														007

TABLE 30. HEARD ISLAND 1949. 300 MB

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-70	-	-66	00	00	00	00	00	01	01	00	00	00	00	00
-65	-	-61	00	00	00	00	01	02	07	06	00	00	00	00
-60	-	-56	00	00	00	01	03	06	08	04	02	00	00	00
-55	-	-51	00	05	03	07	08	07	00	02	05	00	00	00
-50	-	-46	02	02	07	05	01	00	00	05	06	08	07	01
-45	-	-41	04	02	01	03	00	00	00	02	03	09	11	15
-40	-	-36	05	00	00	00	00	00	00	01	00	02	03	06
-35	-	-31	00	00	00	00	00	00	00	00	00	01	00	00
														001

TABLE 31. MACQUARIE ISLAND 1949. 100 MB

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-70	-	-66	00	00	00	00	00	01	00	01	00	00	00	00
-65	-	-61	00	00	00	00	00	00	01	01	01	00	00	00
-60	-	-56	01	00	01	01	07	05	04	07	00	00	00	00
-55	-	-51	01	01	06	06	09	05	09	08	03	00	02	00
-50	-	-46	11	09	03	04	00	02	04	04	06	06	09	05
-45	-	-41	09	11	02	00	00	00	00	00	05	14	06	07
														054

FREQUENCY ANALYSIS OF TROPOPAUSE DATA

TABLE 32. HEARD ISLAND 1949. TEMPERATURE

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

TABLE 33. MACQUARIE ISLAND 1949. TEMPERATURE

DEG. C		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
-75	-	-71	00	00	00	00	00	00	02	01	00	00	00	003
-70	-	-66	00	00	00	01	05	05	04	03	02	00	00	00
-65	-	-61	01	00	04	00	09	03	05	09	06	01	00	01
-60	-	-56	08	01	03	01	06	04	08	03	07	09	05	03
-55	-	-51	07	10	05	06	02	02	07	07	06	13	13	07
-50	-	-46	06	08	04	02	00	01	04	01	03	05	02	02
-45	-	-41	04	04	01	01	00	00	00	00	01	00	00	013

TABLE 34. HEARD ISLAND 1949. PRESSURE

MB.		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
100 - 149		01	00	03	01	00	00	00	00	00	00	00	00	005
150 - 199		02	05	03	05	01	01	01	02	01	03	00	00	024
200 - 249		06	06	06	06	05	08	09	09	05	08	09	07	084
250 - 299		04	01	04	03	07	04	07	06	08	04	11	08	067
300 - 349		10	02	05	06	03	06	04	06	05	06	03	12	068
350 - 399		02	00	01	00	01	01	01	01	02	00	01	01	011
400 - 449		00	01	00	01	00	00	00	00	00	02	00	00	004

TABLE 35. MACQUARIE ISLAND 1949. PRESSURE

MB.		JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
100 - 149		03	02	00	10	00	00	00	01	00	00	03	00	019
150 - 199		03	00	00	01	03	00	02	01	01	00	02	01	014
200 - 249		11	04	08	00	15	08	10	12	10	07	09	04	098
250 - 299		03	03	03	00	04	05	09	07	09	16	05	04	068
300 - 349		06	09	06	00	00	02	07	03	06	05	01	05	050
350 - 399		00	05	00	00	00	00	00	01	00	00	00	01	007

FREQUENCY ANALYSIS OF TROPOPAUSE DATA

TABLE 36. HEARD ISLAND 1949.

GEOPOENTIAL

GPM.10	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
600 - 649	00	00	00	00	00	00	00	00	01	01	00	00	002
650 - 699	00	01	00	00	00	00	00	01	00	00	00	00	002
700 - 749	02	00	00	00	01	01	01	00	03	00	01	01	010
750 - 799	02	01	02	01	02	05	03	02	01	02	00	04	025
800 - 849	05	01	02	03	01	01	00	05	03	03	03	04	031
850 - 899	03	00	02	02	03	01	06	01	04	02	04	05	033
900 - 949	01	01	00	00	02	02	02	01	03	01	04	04	021
950 - 999	03	00	04	03	04	01	04	03	01	03	04	03	033
1000 - 1049	02	00	01	02	01	04	01	03	04	04	05	03	030
1050 - 1099	00	02	01	04	02	04	01	04	00	01	02	03	024
1100 - 1149	04	03	03	00	00	00	03	02	00	01	01	01	018
1150 - 1199	00	01	01	00	00	00	01	01	01	02	00	00	007
1200 - 1249	01	03	02	03	01	00	00	00	00	01	00	00	011
1250 - 1299	00	00	01	01	00	00	00	01	00	01	00	00	004
1300 - 1349	01	02	00	01	00	00	00	00	00	00	00	00	004
1350 - 1399	00	00	00	00	00	00	00	00	00	00	00	00	000
1400 - 1449	00	00	01	00	00	00	00	00	00	00	00	00	001
1450 - 1499	01	00	01	01	00	01	00	00	00	00	00	00	004
1500 - 1549	00	00	00	00	00	00	00	00	00	00	00	00	000
1550 - 1599	00	00	01	01	00	00	00	00	00	01	00	00	003

TABLE 37. MACQUARIE ISLAND 1949.

GEOPOENTIAL

GPM.10	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	TOTAL
700 - 749	00	04	00	00	00	00	00	01	00	00	00	01	006
750 - 799	01	02	02	00	00	00	02	00	01	00	00	00	008
800 - 849	03	04	02	00	00	00	01	03	01	00	01	03	018
850 - 899	02	04	02	00	00	02	06	03	07	05	00	02	033
900 - 949	01	01	02	00	01	01	05	03	03	10	02	03	032
950 - 999	00	02	01	00	03	04	05	01	02	05	01	00	024
1000 - 1049	04	02	02	00	02	01	04	03	04	04	02	01	029
1050 - 1099	03	01	01	00	05	03	03	05	06	02	05	04	038
1100 - 1149	03	01	01	00	06	04	00	04	00	02	02	00	023
1150 - 1199	03	00	04	00	02	00	01	00	01	00	01	00	012
1200 - 1249	01	00	00	01	02	00	01	00	01	00	01	00	007
1250 - 1299	01	00	00	00	00	00	00	01	00	00	01	01	004
1300 - 1349	01	00	00	00	01	00	00	00	00	00	01	00	003
1350 - 1399	00	01	00	03	00	00	00	01	00	00	00	00	005
1400 - 1449	02	00	00	01	00	00	00	00	00	00	01	00	004
1450 - 1499	00	01	00	04	00	00	00	00	00	00	00	00	005
1500 - 1549	00	00	00	02	00	00	00	00	00	00	01	00	003
1550 - 1599	00	00	00	00	00	00	00	00	00	00	00	00	000
1600 - 1649	00	00	00	00	00	00	00	00	00	00	01	00	001
1650 - 1699	01	00	00	00	00	00	00	00	00	00	00	00	001

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

**HEARD ISLAND
JANUARY 1949**

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND DIRECTION	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	TYPE	HEIGHT	CLOUD DIRECTION			MAXIMUM GUST	SUNSHINE						
														LOW	MIDDLE	HIGH								
LST.	Mbs.	"F	"F	"F	"x10	Kts.	VV	Odds	WW	W	Odds	CL	h	CM	CH	CL	MIDDLE CLOUD	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	ANEMOMETER	DIRECTION	SPEED		
01	0 5	9 9 5 8	3 5	3 4	3 2	0 5	1 3	9 6	8	6 1	6	8	0	3	2									
01	0 8	9 9 3 8	3 7	3 6	3 4	2 3	0 7	9 6	8	6 1	6	8	7	4	3	7								
01	1 1	9 9 0 7	3 7	3 7	3 5	2 5	0 7	9 7	8	6 0	6	5	7	3	2	2								
01	1 4	9 8 7 1	4 0	3 9	3 9	0 5	0 9	9 5	8	6 3	6	7	7	2	2	2								
01	1 7	9 8 3 3	4 3	4 3	4 3	0 5	1 5	9 3	8	6 1	6	8	6	1	2	2								
01	2 0	9 8 0 9	4 0	4 0	4 0	3 6	0 7	9 3	8	5 1	6	8	6	0	1	2								
01	2 3	9 7 8 4	3 9	3 9	3 9	0 7	0 9	9 1	8	5 1	6	8	6	0	0	2								
02	0 5	9 8 2 0	3 5	3 2	3 2	2 0	3 8	8 6	8	5 1	6	8	6	0	0	2								
02	0 8	9 8 9 6	3 4	3 3	3 1	2 0	2 5	9 8	8	0 2	2	8	8	5	5	5		4 4	3 3	0 0 2 3	3 0 1	0 7	2 9	0 0 0
02	1 1	9 9 4 1	3 7	3 5	3 1	2 3	2 3	9 9	6	0 1	2	3	2	4	4	6								
02	1 4	9 9 6 9	3 8	3 5	3 2	2 3	1 5	9 9	7	0 2	1	3	2	4	4	6								
02	1 7	9 9 7 7	3 6	3 5	3 1	2 7	1 2	9 9	7	0 2	1	6	2	4	4	6								
02	2 0	9 9 7 2	3 6	3 5	3 1	2 9	1 2	9 9	8	0 2	2	3	3	3	3	5								
02	2 3	9 9 5 8	3 5	3 4	3 4	0 2	0 3	9 7	8	0 5	2	5	6	3	3	7								
03	0 5	9 9 0 7	3 3	3 3	3 2	0 7	2 2	9 5	8	7 3	7	8	0	3	2	2		4 1	3 2	0 0 4 0	3 2 4	2 0	5 3	0 6 6
03	0 8	9 8 8 6	3 6	3 6	3 5	1 6	0 6	9 7	8	2 2	7	7	7	3	2	2								
03	1 1	9 8 8 5	3 8	3 7	3 6	3 2	0 5	9 7	8	2 0	2	7	6	2	2	2								
03	1 4	9 8 6 5	3 7	3 7	3 6	0 5	0 9	9 5	8	6 2	6	7	6	2	2	2								
03	1 7	9 8 4 8	3 7	3 7	3 7	3 6	0 5	9 3	8	5 2	6	6	6	2	2	2								
03	2 0	9 8 5 2	3 6	3 5	3 5	3 2	0 9	9 5	8	1 0	5	8	6	2	2	2								
03	2 3	9 8 5 9	3 6	3 5	3 5	2 9	1 3	9 7	8	0 2	2	5	5	3	3	7								
04	0 5	9 8 6 2	3 6	3 5	3 4	2 9	1 2	9 6	8	8 9	8	7	9	2	2	2		3 8	3 2	0 0 2 7	2 9 9	0 7	4 1	0 0 0
04	0 8	9 8 7 0	3 8	3 6	3 5	2 7	1 5	9 8	8	1 6	6	5	2	2	2	2								
04	1 1	9 8 7 9	3 8	3 6	3 2	2 7	0 9	9 8	8	2 5	9	8	8	3	4	6								
04	1 4	9 8 9 6	3 7	3 7	3 6	2 7	0 7	9 8	8	0 2	2	2	5	8	4	6								
04	1 7	9 8 8 7	3 9	3 6	3 2	2 5	0 4	9 8	8	0 2	2	2	5	8	4	6								
04	2 0	9 8 8 7	3 7	3 6	3 6	3 6	0 3	9 8	8	0 2	2	2	5	8	4	6								
04	2 3	9 8 8 2	3 6	3 6	3 6	0 5	0 7	9 6	8	5 1	6	6	6	3	3	7		4 0	3 5	0 0 1 6	2 2 8	2 7	2 7	0 0 9
05	0 5	9 8 7 1	3 7	3 6	3 4	2 9	0 8	9 7	8	1 6	6	6	6	3	2	2								
05	0 8	9 8 5 7	3 6	3 5	3 5	3 4	0 2	9 8	8	2 0	6	5	5	2	2	2								
05	1 1	9 8 4 1	3 5	3 5	3 5	0 7	0 4	9 6	8	6 8	6	7	6	2	2	2								
05	1 4	9 8 3 6	3 5	3 5	3 5	2 0	0 8	9 5	8	6 9	6	6	6	0	2	2								
05	1 7	9 8 3 8	3 6	3 5	3 5	0 5	0 3	9 6	8	2 1	7	5	7	2	2	2								
05	2 0	9 8 4 8	3 6	3 5	3 5	2 7	0 9	9 7	8	6 0	6	6	7	2	2	2								
05	2 3	9 8 5 5	3 6	3 5	3 6	2 6	0 9	9 6	8	6 1	6	6	8	0	2	2								
06	0 5	9 8 8 1	3 6	3 5	3 3	2 7	1 4	9 6	8	6 1	6	6	8	0	2	2								
06	0 8	9 9 0 4	3 6	3 5	3 5	2 5	1 0	9 6	8	5 1	6	6	8	0	2	2								
06	1 1	9 9 3 2	3 5	3 4	3 5	2 3	1 7	9 7	8	2 5	8	8	8	0	3	3								
06	1 4	9 9 6 1	3 6	3 5	3 2	2 3	1 7	9 8	8	0 2	2	8	8	0	3	3								
06	1 7	9 9 7 2	3 7	3 5	3 1	2 6	1 5	9 8	8	0 2	2	8	7	0	3	3								
06	2 0	9 9 6 5	3 5	3 4	3 1	2 5	1 2	9 8	7	0 3	1	6	8	0	2	2								
06	2 3	9 9 9 4	3 6	3 4	3 2	1 0	9 8	7	0 3	2	5	8	3	7	2	2								
07	0 5	0 0 0 0	3 5	3 5	3 1	2 5	0 9	9 8	5	0 2	1	6	8	4	3	3								
07	0 8	9 9 9 6	3 7	3 4	3 0	2 5	0 5	9 8	2	0 1	1	2	8	5	0	2								
07	1 1	9 9 8 4	3 9	3 9	3 9	0 0	0 6	9 9	4	0 3	0	2	2	5	5	0	2							
07	1 4	9 9 5 3	4 0	3 8	3 4	0 5	1 3	9 9	5	0 1	1	2	2	5	5	7								
07	1 7	9 9 1 9	3 8	3 5	3 5	3 1	0 7	1 9	9 8	8	0 3	2	2	5	5	7								
07	2 0	9 8 6 4	3 6	3 5	3 3	0 7	2 8	9 5	8	6 3	6	6	6	0	3	3								
07	2 3	9 8 2 2	3 5	3 4	3 3	0 7	3 1	9 5	8	7 3	7	8	0	3	3	2								
08	0 5	9 7 4 2	3 8	3 7	3 8	0 7	1 9	9 6	8	6 3	6	6	6	2	2	2								
08	0 8	9 7 2 7	3 8	3 8	3 8	0 5	0 9	9 6	8	6 3	6	6	6	2	2	2								
08	1 1	9 7 5 2	3 9	3 9	3 9	3 1	0 6	9 4	8	5 0	6	6	6	2	2	2								
08	1 4	9 7 2 8	3 9	3 8	3 7	3 5	0 4	9 7	8	0 2	2	8	6	6	5	5								
08	1 7	9 7 3 5	3 7	3 7	3 7	3 3	0 6	9 7	8	5 0	5	6	6	5	5	5								
08	2 0	9 7 4 2	3 7	3 7	3 7	2 4	0 5	9 6	7	7 0	6	6	6	1	1	1								
08	2 3	9 7 6 7	3 6	3 6	3 6	2 1	0 8	9 5	8	5 0	5	6	6	1	1	1								
09	0 5	9 8 5 3	3 5	3 4	3 4	0 2	0 5	9 7	8	5 0	5	6	6	3	3	2								
09	0 8	9 8 8 1	3 7	3 6	3 5	0 0	0 3	9 8	8	0 2	2	8	6	6	6	3								
09	1 1	9 9 1 7	3 9	3 7	3 3	2 9	0 4	9 8	8	0 2	2	8	5	4	4	4								
09	1 4	9 9 1 5	4 0	3 7	3 2	0 5	1 3	9 9	7	0 3	2	8	3	5	4	4								
09	1 7	9 8 9 9	3 7	3 5	3 1	0 5	1 9	9 8	8	0 3	2	8	3	5	3	3								
09	2 0	9 8 6 6	3 5	3 4	3 3	0 5	2 6																	

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF JANUARY 1949																									
DAY	HOUR	STATION LEVEL PRESSURE	WIND			DEW POINT	DIRECTION	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST	SUNSHINE				
			DRY BULB	WET BULB	SPEED								LOW CLOUD	MIDDLE CLOUD	HIGH CLOUD										
LST.	Mbs.	"F	"F	"F	"x10	Kts.	VV	Oktas	ww	Oktas	C _L	C _L	h	C _M	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.	Hours		
11	0 5	9 7 0 3	3 7	3 5	3 3	2 9	2 2	9 6	8	6 0	6	6	7	3	2	2	5	5	4 1	3 5	0 0 1 3	3 0 5	2 9	3 8	0 2 4
11	0 8	9 7 1 9	3 6	3 6	3 4	2 9	2 1	9 6	8	6 0	6	6	7	3	2	2	5	5							
11	1 1	9 7 3 1	3 7	3 6	3 4	2 9	1 7	9 6	8	6 0	6	6	7	3	2	2	5	5							
11	1 4	9 7 4 6	3 9	3 7	3 5	2 7	1 9	9 8	7	0 1	6	3	5	4	7	6	6	6							
11	1 7	9 7 5 4	4 0	3 7	3 4	2 8	1 5	9 8	7	0 3	8	6	8	3	3	7	6	6							
11	2 0	9 7 5 5	3 6	3 5	3 4	2 6	0 7	9 8	6	0 2	1	5	8	2	7	6	6	6							
11	2 3	9 7 5 5	3 6	3 5	3 4	2 3	0 5	9 8	8	0 3	2	8	5	2	7	6	6	6							
12	0 5	9 7 6 8	3 5	3 4	3 3	2 0	1 5	9 8	8	0 2	8	7	8	4	7	5	5	5							
12	0 8	9 7 6 3	3 7	3 4	3 3	2 1	1 7	9 8	7	0 1	2	4	5	4	7	5	5	5							
12	1 1	9 8 1 8	3 8	3 5	2 8	2 2	1 5	9 9	7	0 2	2	3	2	4	5	5	5	5							
12	1 4	9 8 2 8	3 7	3 5	3 0	2 2	2 3	9 8	7	0 3	8	6	2	4	5	5	5	5							
12	1 7	9 8 4 8	3 5	3 3	3 0	2 2	1 7	9 8	7	0 2	8	6	2	4	5	5	5	5							
12	2 0	9 8 7 4	3 5	3 4	3 2	2 5	1 4	9 6	7	0 2	8	6	6	8	4	5	5	5							
12	2 3	9 8 8 7	3 4	3 4	3 3	2 5	0 9	9 8	7	0 2	8	6	6	8	4	5	5	5							
13	0 5	9 8 9 8	3 4	3 3	3 0	2 9	1 4	9 8	6	0 2	8	5	8	4	3	5	5	5							
13	0 8	9 8 9 8	3 4	3 4	3 0	2 9	1 6	9 7	7	8 5	6	6	4	3	6	6	6	6							
13	1 1	9 8 9 6	3 8	3 5	2 9	2 9	2 1	9 9	4	0 1	3	2	9	4	6	6	6	6							
13	1 4	9 8 9 5	3 8	3 5	3 2	2 7	2 3	9 8	6	0 2	5	2	4	4	6	6	6	6							
13	1 7	9 8 8 2	3 4	3 4	3 4	2 9	2 2	9 7	8	8 6	7	7	2	4	4	6	6	6							
13	2 0	9 8 7 4	3 4	3 4	3 2	2 9	1 7	9 6	8	8 6	8	7	2	3	3	6	6	6							
13	2 3	9 8 7 3	3 5	3 3	3 0	3 0	1 4	9 6	8	8 6	8	8	2	3	3	6	6	6							
14	0 5	9 8 7 4	3 4	3 4	3 2	2 7	1 2	9 7	8	8 5	8	8	8	3	3	6	6	6							
14	0 8	9 8 7 1	3 6	3 5	3 3	2 7	1 4	9 7	8	0 2	8	8	8	3	3	6	6	6							
14	1 1	9 8 6 3	3 6	3 5	3 2	2 8	1 7	9 8	8	0 2	8	8	8	3	3	6	6	6							
14	1 4	9 8 5 4	3 8	3 7	3 5	2 8	1 5	9 8	8	0 2	8	8	8	3	3	6	6	6							
14	1 7	9 8 4 7	3 6	3 5	3 3	2 5	1 7	9 8	8	0 2	8	8	8	3	3	6	6	6							
14	2 0	9 8 4 2	3 5	3 4	3 4	2 7	1 4	9 7	8	8 6	8	8	8	3	3	6	6	6							
14	2 3	9 8 4 1	3 4	3 4	3 4	2 3	1 9	9 6	8	8 0	8	8	8	3	3	6	6	6							
15	0 5	9 8 4 2	3 4	3 4	3 4	2 3	2 1	9 7	8	8 4	8	8	8	3	3	6	6	6							
15	0 8	9 8 4 7	3 5	3 3	3 3	2 3	2 4	9 6	8	8 6	8	8	8	3	3	6	6	6							
15	1 1	9 8 5 7	3 4	3 4	3 4	2 0	1 9	9 7	8	8 0	8	8	8	3	3	6	6	6							
15	1 4	9 8 8 4	3 6	3 5	3 4	1 9	2 0	9 8	8	0 1	8	4	2	3	3	7	5	5							
15	1 7	9 9 0 4	3 4	3 4	3 4	2 0	1 7	9 7	8	8 6	8	8	8	3	3	7	5	5							
15	2 0	9 9 4 3	3 5	3 5	3 3	1 9	1 7	9 8	7	0 2	8	5	2	3	3	7	5	5							
15	2 3	9 9 7 0	3 6	3 5	3 3	2 0	2 1	9 8	8	0 3	8	6	2	3	3	7	5	5							
16	0 5	0 0 3 3	3 5	3 5	3 4	1 7	1 9	9 8	8	0 2	8	8	8	3	3	7	5	5							
16	0 8	0 0 5 4	3 6	3 5	3 2	1 8	2 5	9 8	8	0 2	8	8	8	3	3	7	5	5							
16	1 1	0 0 8 0	3 7	3 5	3 1	1 8	2 3	9 8	8	0 2	8	8	8	3	3	7	5	5							
16	1 4	0 0 9 0	3 7	3 6	3 3	1 8	2 3	9 8	8	0 2	8	8	8	3	3	7	5	5							
16	1 7	0 1 0 6	3 7	3 5	3 4	2 0	2 3	9 8	8	0 2	8	8	8	3	3	7	5	5							
16	2 0	0 1 2 7	3 5	3 5	3 4	2 1	1 6	9 8	8	8 0	8	8	8	4	4	5	5	5							
16	2 3	0 1 2 1	3 6	3 5	3 4	2 1	1 7	9 8	8	0 2	8	8	8	4	4	5	5	5							
17	0 5	0 1 2 4	3 5	3 4	3 4	2 1	2 1	9 8	8	0 2	8	8	8	4	4	5	5	5							
17	0 8	0 1 3 1	3 7	3 6	3 5	2 0	2 3	9 8	8	0 2	8	8	8	3	3	7	5	5							
17	1 1	0 1 3 3	3 8	3 5	3 2	2 1	1 7	9 7	8	8 0	8	8	8	4	4	5	5	5							
17	1 4	0 1 3 8	3 9	3 7	3 3	1 9	1 7	9 8	8	0 3	8	8	8	4	4	5	5	5							
17	1 7	0 1 3 4	3 8	3 6	3 1	1 8	2 1	9 9	4	0 1	8	2	8	4	4	5	5	5							
17	2 0	0 1 5 0	3 5	3 4	3 2	1 9	1 6	9 9	5	0 2	1	4	5	3	0	1	5	5							
17	2 3	0 1 5 6	3 5	3 4	3 1	1 9	1 5	9 8	6	0 3	1	6	5	4	4	5	5	5							
18	0 5	0 1 5 7	3 6	3 5	3 5	1 8	0 6	9 8	8	0 2	8	5	6	2	3	7	5	5							
18	0 8	0 1 5 6	3 8	3 7	3 4	0 9	0 2	9 8	8	0 2	8	5	6	2	3	7	5	5							
18	1 1	0 1 5 5	3 8	3 7	3 4	0 2	1 2	9 8	8	0 2	8	5	6	2	3	7	5	5							
18	1 4	0 1 3 5	3 8	3 5	0 2	1 1	9 8	8	0 2	8	5	6	2	3	7	5	5								
18	1 7	0 1 2 1	3 8	3 7	3 3	0 2	1 2	9 8	8	0 2	8	5	6	2	3	7	5	5							
18	2 0	0 0 9 7	3 8	3 7	3 4	0 4	1 3	9 7	8	0 3	8	2	7	7	3	2	2	2							
18	2 3	0 0 8 0	3 8	3 7	3 5	0 3	1 5	9 7	8	0 2	8	2	7	7	3	2	2	2							
19	0 5	0 0 2 1	4 0	4 0	0 2	1 0	9 5	8	6 3	6	8	0 2	2	2	2	2	2	2							
19	0 8	9 9 9 6	4 1	4 1	4 0	5 1	1 4	9 5	8																

RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF

HEARD ISLAND
JANUARY 1949

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF JANUARY 1949																								
DAY	HOUR	STATION	STAN ELEV. PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD AMOUNT	CLOUD DIRECTION			MAXIMUM TEMPERATURE °F	MINIMUM TEMPERATURE °F	PRECIPITATION Points	ANEMOMETER Miles	MAXIMUM GUST			
							DIRECTION	SPEED "x10	Kts.	VV	Oktas	W	W	Oktas	C _L	h	CM	CH	CL	LOW	MIDDLE	HIGH	DIRECTION	SPEED
21	05	9775	56	34	30	23	15	98	7	02	2	7	5	4	5	3	6	5	5	5	5	5	5	5
21	08	9779	57	35	30	25	13	98	5	02	2	5	6	4	3	6	5	5	5	5	5	5	5	5
21	11	9785	58	35	29	27	22	98	8	03	8	8	6	4	4	2	2	2	2	2	2	2	2	2
21	14	9779	57	35	33	27	15	96	8	80	8	8	8	8	8	8	8	8	8	8	8	8	8	8
21	17	9795	56	35	33	29	21	96	8	80	8	8	8	8	8	8	8	8	8	8	8	8	8	8
21	20	9826	57	34	29	27	21	97	8	02	8	8	8	8	8	8	8	8	8	8	8	8	8	8
21	23	9847	57	34	28	27	17	97	8	02	2	8	8	8	8	8	8	8	8	8	8	8	8	8
22	05	9855	56	34	30	27	14	98	8	02	2	6	8	8	8	8	8	8	8	8	8	8	8	8
22	08	9829	57	36	32	29	16	96	8	80	8	8	8	8	8	8	8	8	8	8	8	8	8	8
22	11	9784	56	36	35	36	05	95	8	63	6	8	8	8	8	8	8	8	8	8	8	8	8	8
22	14	9777	59	37	55	29	23	97	8	02	6	6	6	6	6	6	6	6	6	6	6	6	6	6
22	17	9809	58	36	32	28	23	97	8	02	2	8	8	8	8	8	8	8	8	8	8	8	8	8
22	20	9830	57	36	33	27	17	98	8	02	2	8	8	8	8	8	8	8	8	8	8	8	8	8
22	23	9835	57	36	32	28	21	98	8	02	2	8	8	8	8	8	8	8	8	8	8	8	8	8
23	05	9868	56	35	35	29	19	98	8	16	8	8	8	8	8	8	8	8	8	8	8	8	8	8
23	08	9878	57	36	34	28	19	96	8	81	8	8	8	8	8	8	8	8	8	8	8	8	8	8
23	11	9898	58	36	34	26	17	97	8	02	2	8	8	8	8	8	8	8	8	8	8	8	8	8
23	14	9939	58	37	33	25	14	97	8	02	2	8	8	8	8	8	8	8	8	8	8	8	8	8
23	17	9964	58	37	35	22	30	97	8	02	2	8	8	8	8	8	8	8	8	8	8	8	8	8
23	20	9995	57	36	34	20	26	97	8	02	2	8	8	8	8	8	8	8	8	8	8	8	8	8
23	23	9902	57	35	32	19	26	97	8	02	2	8	8	8	8	8	8	8	8	8	8	8	8	8
24	05	9038	56	35	34	23	14	99	8	03	2	3	8	8	8	8	8	8	8	8	8	8	8	8
24	08	0047	57	35	21	23	14	98	8	03	2	3	8	8	8	8	8	8	8	8	8	8	8	8
24	11	0019	40	38	56	35	07	97	8	03	2	3	8	8	8	8	8	8	8	8	8	8	8	8
24	14	9969	38	37	55	05	13	97	8	03	2	3	8	8	8	8	8	8	8	8	8	8	8	8
24	17	9907	38	38	57	05	14	95	8	02	2	8	8	8	8	8	8	8	8	8	8	8	8	8
24	20	9867	39	39	59	20	17	92	8	46	6	6	6	6	6	6	6	6	6	6	6	6	6	6
24	23	9879	37	37	57	20	22	97	8	80	4	4	4	4	4	4	4	4	4	4	4	4	4	4
25	05	9927	57	35	31	24	17	98	5	02	2	3	5	5	5	5	5	5	5	5	5	5	5	5
25	08	9936	58	36	32	24	17	98	8	03	2	3	8	8	8	8	8	8	8	8	8	8	8	8
25	11	9945	40	37	32	25	26	98	8	03	2	3	8	8	8	8	8	8	8	8	8	8	8	8
25	14	9946	39	37	33	25	22	97	8	02	2	8	8	8	8	8	8	8	8	8	8	8	8	8
25	17	9945	38	37	35	26	24	97	8	03	2	3	8	8	8	8	8	8	8	8	8	8	8	8
25	20	9962	35	36	34	25	17	97	8	85	9	9	9	9	9	9	9	9	9	9	9	9	9	9
25	23	9971	37	36	34	31	22	97	8	80	8	8	8	8	8	8	8	8	8	8	8	8	8	8
26	05	9979	57	35	31	24	17	98	5	02	2	3	5	5	5	5	5	5	5	5	5	5	5	5
26	08	9979	57	35	32	29	23	98	7	02	2	6	7	7	7	7	7	7	7	7	7	7	7	7
26	11	9972	58	37	35	32	11	96	8	80	2	8	8	8	8	8	8	8	8	8	8	8	8	8
26	14	9958	37	37	36	34	13	96	8	60	6	7	7	7	7	7	7	7	7	7	7	7	7	7
26	17	9925	36	36	35	36	09	96	8	61	6	8	8	8	8	8	8	8	8	8	8	8	8	8
26	20	9909	36	35	34	34	10	96	8	61	6	7	7	7	7	7	7	7	7	7	7	7	7	7
26	23	9908	35	35	34	23	17	98	5	01	6	5	5	5	5	5	5	5	5	5	5	5	5	5
27	05	9931	36	35	35	28	16	97	8	02	8	8	8	8	8	8	8	8	8	8	8	8	8	8
27	08	9956	37	37	31	29	23	98	8	02	8	8	8	8	8	8	8	8	8	8	8	8	8	8
27	11	9992	38	36	35	29	13	97	8	02	8	8	8	8	8	8	8	8	8	8	8	8	8	8
27	14	0013	38	37	34	28	19	97	8	02	8	8	8	8	8	8	8	8	8	8	8	8	8	8
27	17	0024	37	36	34	29	16	96	8	80	8	8	8	8	8	8	8	8	8	8	8	8	8	8
27	20	0038	39	37	34	31	23	96	8	02	8	7	7	7	7	7	7	7	7	7	7	7	7	7
27	23	0038	39	37	35	31	17	96	8	80	8	7	7	7	7	7	7	7	7	7	7	7	7	7
28	05	9961	38	38	38	05	05	95	8	61	2	8	8	8	8	8	8	8	8	8	8	8	8	8
28	08	9946	40	40	40	04	04	94	8	61	6	8	8	8	8	8	8	8	8	8	8	8	8	8
28	11	9938	41	41	41	34	06	95	8	63	6	8	8	8	8	8	8	8	8	8	8	8	8	8
28	14	9909	42	42	42	31	07	95	8	63	6	8	8	8	8	8	8	8	8	8	8	8	8	8
28	17	9889	41	40	38	28	13	95	8	63	6	8	8	8	8	8	8	8	8	8	8	8	8	8
28	20	9887	37	37	37	23	14	97	8	06	6	3	3	3	3	3	3	3	3	3	3	3	3	3
28	23	9896	36	36	36	25	17	98	5	03	2	1	4	4	4	4	4	4	4	4	4	4	4	4
29	05	9910	36	36	35	31	17	96	7	02	8	7	7	7	7	7	7	7	7	7	7	7	7	7
29	08	9925	39	37	32	29	19	97	8	02	2	8	8	8	8	8	8	8	8	8	8	8	8	8
29	11	9923	39	37	34	35	10	97	8	02	2	7	7	7	7	7	7	7	7	7	7	7	7	7
29	14	9911	39	37	34	32	27	17	97	8	60	7	6	6	6	6	6	6	6	6	6	6	6	6
29	17	9891	35	34	32	27	13	97	8	61	6	7	7	7	7	7	7	7	7	7	7	7	7	7
29	20	9906	37	35	31	31	24	97	5	01	6	4	4	4	4	4	4	4	4	4	4	4	4	4
29	23	9904	38	35	30	31	25	98	4	02	2	1	4	4	4	4	4	4	4	4	4	4	4	4
30	05	9899	37	35	31	32	26	98	7	02	8	7	7	7	7	7	7	7	7	7	7	7	7	7
30	08	9904	40	39	38	24	95	6	63	7	9	9	9	9	9	9	9	9	9	9	9	9	9	9
30	11	9887	42	41	40	32	31	96	8	62	6	6	6	6	6	6	6	6	6	6	6	6	6	6
30	14	9898	41	40	39	29	13	94	8	02	8</td													

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

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF HEARD ISLAND
FEBRUARY 1949**

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

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

**HEARD ISLAND
FEBRUARY 1949**

DAY	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		VV	Oktas	ww	W	Oktas	C _L	h	CLOUD DIRECTION			MAXIMUM TEMPERATURE °F	MINIMUM TEMPERATURE °F	PRECIPITATION Points	Miles	MAXIMUM GUST		SUNSHINE			
					DIRECTION	SPEED x10	Kts.							LOW CLOUD	MIDDLE	HIGH	CLOUD TYPE	MIDDLE	HIGH	CLOUD DIRECTION	MIDDLE	HIGH	DIRECTION	DIRECTION		
LST	Mbs.	"F	"F	"F	"F	x10	Kts.																			
21	0 5	0 0 0 1	3 4	3 5	3 5	3 5	2	2 2	0 9	8 0	6	0 2	2	6	5	4	0	0	5	9	9	9	9	9	9	
21	0 6	0 0 1 6	3 2	3 5	3 5	3 5	2	2 2	1 0	8 2	5	0 1	2	5	5	5	4	0	4	9	9	9	9	9	9	
21	1 1	0 0 2 6	3 7	3 5	3 4	3 5	2	2 2	0 9	8 2	6	0 2	2	6	5	5	5	4	0	4	9	9	9	9	9	
21	1 4	0 0 2 2	3 7	3 5	3 4	3 5	2	2 2	0 8	8 2	7	0 2	2	3	3	8	7	5	5	5	5	5	5	5	5	
21	1 7	9 9 9 5	3 7	3 5	3 5	3 5	2	3 1	0 7	8 0	8	0 3	2	7	5	5	5	7	5	5	5	5	5	5	5	
21	2 0	9 9 4 7	3 3	3 5	3 5	3 5	2	3 3	0 3	9 2	8	7	1	7	8	7	7	3	5	9	9	9	9	9	9	
21	2 3	9 8 7 2	3 2	3 5	3 5	3 5	2	3 2	0 8	2 0	2 4	8	7	1	7	8	7	3	5	9	9	9	9	9	9	
22	0 5	9 8 2 5	3 5	3 5	3 5	3 5	2	2 1	2 4	6 4	6	0 0	7	2	5	4	4	0	4	9	9	9	9	9	9	
22	0 8	9 8 9 3	3 6	3 5	3 4	3 5	2	3 0	3 0	8 0	7	6	1	6	1	6	4	4	4	4	4	4	4	4		
22	1 1	9 9 5 1	3 7	3 5	3 5	3 5	2	2 2	3 1	8 1	7	0 2	2	3	6	5	5	5	5	5	5	5	5	5	5	
22	1 4	9 9 9 6	3 9	3 7	3 5	3 5	2	2 4	8 1	7	0 2	2	4	8	5	5	5	5	5	4	4	4	4	4	4	
22	1 7	0 0 2 2	3 7	3 5	3 5	3 5	2	2 2	2 3	8 1	7	0 3	2	4	8	4	4	5	5	5	5	5	5	5	5	
22	2 0	0 0 5 0	3 6	3 5	3 4	3 5	2	3 1	0 8	2 3	9 0	5	0 1	2	5	8	4	4	5	4	4	4	4	4	4	
22	2 3	0 0 7 4	3 5	3 5	3 5	3 5	2	2 1	2 1	8 2	1	0	2	8	1	8	0	0	4	4	9	9	9	9	9	
23	0 5	0 1 1 9	3 6	3 5	3 5	3 5	2	2 3	1 6	8 0	7	0 3	2	5	5	5	4	4	4	4	4	4	4	4	4	
23	0 8	0 1 3 6	3 8	3 6	3 6	3 3	2	2 4	1 9	8 2	6	0 2	2	6	5	5	4	4	4	4	4	4	4	4	4	
23	1 1	0 1 5 9	3 9	3 7	3 5	3 5	2	2 7	1 0	8 1	7	0 2	2	6	5	5	4	4	4	4	4	4	4	4	4	
23	1 4	0 1 7 2	3 8	3 7	3 5	3 5	2	3 1	0 9	8 1	7	0 3	2	7	5	5	4	4	4	4	4	4	4	4	4	
23	1 7	0 1 7 6	3 9	3 6	3 5	3 5	2	2 6	0 9	8 0	8	0 3	2	8	5	5	4	4	4	4	4	4	4	4	4	
23	2 0	0 1 7 5	3 7	3 5	3 4	3 4	2	3 3	0 9	8 0	8	0 3	2	8	5	5	4	4	4	4	4	4	4	4	4	
23	2 3	0 1 7 8	3 7	3 5	3 4	3 4	2	0 1	0 8	8 0	8	0 2	2	6	5	5	4	4	4	4	4	4	4	4	4	
24	0 5	0 1 5 5	3 7	3 7	3 7	3 7	2	0 5	0 9	3 2	8	4	1	2	8	6	6	6	6	6	6	6	6	6	6	
24	0 8	0 1 4 2	3 9	3 9	3 9	3 9	2	3 6	0 4	3 2	8	6	0	6	8	6	6	6	6	6	6	6	6	6	6	
24	1 1	0 1 1 9	4 1	4 1	4 1	4 1	2	2 5	2 6	8 0	8	5	0	6	8	6	6	6	6	6	6	6	6	6	6	
24	1 4	0 1 4 6	4 0	3 8	3 5	3 5	2	2 3	3 3	5 4	5	0 1	2	5	5	5	3	3	3	3	3	3	3	3	3	
24	1 7	0 1 7 7	4 0	3 6	3 5	3 5	2	2 2	3 0	5 1	7	0 3	2	7	5	5	3	3	3	3	3	3	3	3	3	
24	2 0	0 2 0 6	3 8	3 6	3 5	3 5	2	2 3	2 2	8 1	7	0 2	2	7	5	5	4	4	4	4	4	4	4	4	4	
24	2 3	0 2 2 0	3 7	3 6	3 5	3 4	2	2 0	2 0	8 1	7	0 2	2	7	5	5	4	4	4	4	4	4	4	4	4	
25	0 5	0 2 2 3	3 5	3 6	3 5	3 5	2	2 4	0 8	8 1	7	0 2	2	6	6	6	5	5	5	5	5	5	5	5	5	
25	0 8	0 2 0 9	4 0	3 0	3 0	3 0	2	2 9	2 2	8 1	8	0 3	2	6	6	6	5	5	5	5	5	5	5	5	5	
25	1 1	0 2 0 9	3 9	3 8	3 8	3 8	2	2 9	2 3	6 4	8	0 3	2	8	5	5	5	5	5	5	5	5	5	5	5	
25	1 4	0 2 1 0	3 9	3 8	3 8	3 5	2	2 4	2 1	8 0	8	0 2	2	6	6	6	5	5	5	5	5	5	5	5	5	
25	1 7	0 2 1 8	3 8	3 7	3 4	3 4	2	2 2	2 2	6 4	7	0 2	2	6	6	6	5	5	5	5	5	5	5	5	5	
25	2 0	0 2 1 6	3 8	3 7	3 4	3 4	2	2 3	1 9	8 1	7	0 2	2	6	6	6	5	5	5	5	5	5	5	5	5	
25	2 3	0 2 2 5	3 8	3 7	3 4	3 4	2	2 4	1 4	8 0	8	0 2	2	6	6	6	5	5	5	5	5	5	5	5	5	
26	0 5	0 1 8 7	3 6	3 5	3 5	3 5	2	2 9	1 0	4 0	8	0 0	2	2	8	6	6	6	5	5	5	5	5	5	5	
26	0 8	0 1 7 4	3 7	3 6	3 5	3 5	2	2 4	1 2	1 6	8	1	0	2	2	8	6	6	5	5	5	5	5	5	5	
26	1 1	0 1 5 7	3 7	3 7	3 6	3 6	2	2 2	1 2	2 4	8	1	0	2	2	8	6	6	5	5	5	5	5	5	5	
26	1 4	0 1 3 4	3 9	3 7	3 5	3 5	2	2 7	0 9	8 1	8	0 2	2	5	5	5	5	5	5	5	5	5	5	5	5	
26	1 7	0 1 1 5	3 9	3 7	3 5	3 5	2	3 0	1 9	4 0	8	0 2	2	8	5	5	5	5	5	5	5	5	5	5	5	
26	2 0	0 0 6 3	3 9	3 8	3 6	3 6	2	2 6	2 6	4 0	8	5	0	2	2	7	5	5	5	5	5	5	5	5	5	
26	2 3	0 0 4 7	3 9	3 8	3 6	3 1	2	2 3	4 0	8 0	8	0 2	2	6	6	6	5	5	5	5	5	5	5	5	5	
27	0 5	0 0 8 9	3 8	3 6	3 2	2 9	1 9	8 0	8	0 2	2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
27	0 8	0 0 9 3	3 6	3 5	3 3	2 9	1 6	8 1	8	0 2	2	7	5	5	5	5	5	5	5	5	5	5	5	5	5	
27	1 1	0 1 0 4	3 8	3 7	3 4	2 7	1 5	2 4	8	0 2	2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
27	1 4	0 1 0 8	3 9	3 8	3 6	3 5	2	2 7	1 7	8 1	8	0 2	2	6	6	6	6	6	6	6	6	6	6	6	6	
27	1 7	0 1 1 2	3 8	3 7	3 5	3 5	2	2 7	1 5	8 1	8	0 2	2	6	6	6	6	6	6	6	6	6	6	6	6	
27	2 0	0 1 1 0	3 7	3 7	3 5	3 6	2	2 5	1 4	1 6	8	1	1	2	2	6	6	6	6	6	6	6	6	6	6	
27	2 3	0 1 0 4	3 7	3 7	3 7	3 7	2	2 4	1 7	2 4	8	1	1	6	6	6	6	6	6	6	6	6	6	6	6	
28	0 5	0 0 9 7	4 0	3 9	3 7	2 1	1 7	1 6	8	1	1	6	6	1	6	6	6	6	6	6	6	6	6	6	6	
28	0 6	0 0 9 5	4 0	4 0	3 9	2 3	1 9	2 4	8	0 2	2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
28	1 1	0 1 0 0	4 0	4 0	3 9	2 6	1 9	1 6	8	1	1	6	6	5	1	2	6	6	6	6	6	6	6	6	6	
28	1 4	0 1 1 5	3 9																							

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

RESULTS OF SURFACE OBSERVATIONS AT															HEARD ISLAND MARCH 1949													
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			SUNSHINE					
						DIRECTION	SPEED	*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.	
LST.		Mbs.	*F	*F																								
11	0 5	0 1 9 2	3 7	3 5	3 1	2 3	2 9	8 1		6	0 2	2	6	5	3				5	5	9	9						
11	0 8	0 2 1 1	3 8	3 5	3 0	2 4	2 9	8 1		7	0 3	2	6	5	4				5	5	9	9						
11	1 1	0 2 1 4	3 9	3 7	3 2	2 4	2 4	8 1		7	0 2	2	7	5	3				6	6	9	9						
11	1 4	0 2 1 9	4 0	3 7	3 2	2 4	2 2	8 1		8	0 2	2	6	5	3				6	6	9	9						
11	1 7	0 2 0 6	3 9	3 7	3 3	2 4	0 8	8 1		7	0 2	2	7	5	5			7	7	2	2							
11	2 0	0 1 9 6	3 7	3 5	3 1	2 7	0 5	8 1		8	0 2	2	8	5	5			8	7	0	2							
11	2 3	0 1 7 0	3 6	3 5	3 3	3 6	0 9	8 1		8	0 2	2	2	5	5	1			7	7	9	9						
12	0 5	0 0 8 2	3 8	3 7	3 5	0 7	1 8	2 4		8	6	1	2	8	0	2	2	2	9	9	9	9						
12	0 8	0 0 3 4	3 9	3 9	3 9	0 7	1 2	2 4		8	6	1	6	8	0	6	6	2	6	6	9	9						
12	1 1	9 9 8 3	4 9	4 8	4 7	2 6	2 1	0 6		8	5	1	6	7	7	1	2	2	6	6	9	9						
12	1 4	9 9 8 4	4 5	4 5	3 4	2 9	1 6	8		6	1	6	8	7	1	2	2	7	7	9	9							
12	1 7	9 9 8 2	4 7	4 7	4 6	3 2	2 9	1 2		8	0	3	6	4	7	0	2	2	6	6	9	9						
12	2 0	9 9 7 5	3 7	3 5	3 1	2 7	0 5	8 1		8	6	2	6	8	7	0	2	2	9	9	9	9						
12	2 3	9 9 5 7	4 7	4 6	4 5	3 1	3 8	8 0		8	1	8	6	4	8	4	2	2	7	7	9	9						
13	0 5	9 9 7 8	3 8	3 8	3 8	2 4	2 5	1 6		8	5	0	5	6	8	2	5	2	5	5	5	5						
13	0 8	9 9 9 2	3 9	3 7	3 7	2 3	2 3	4 0		8	5	0	5	7	7	2	2	2	5	5	5	5						
13	1 1	0 0 4 0	3 9	3 8	3 6	2 4	2 3	8 1		7	0	2	8	4	8	3	3	1	2	2	2	2						
13	1 4	0 0 6 2	3 9	3 7	3 4	2 4	2 0	8 3		5	0	1	2	4	8	4	3	2	2	2	2	2						
13	1 7	0 0 8 9	3 8	3 7	3 5	2 7	1 4	8 1		7	0	2	2	7	8	2	2	2	2	2	2	2						
13	2 0	0 0 9 2	3 6	3 6	3 4	2 4	1 4	8 1		7	0	2	2	7	8	2	2	2	2	2	2	2						
13	2 3	0 1 0 1	3 7	3 6	3 4	2 3	0 8	8 3		6	0	2	2	4	8	4	3	2	5	5	5	5						
14	0 5	0 0 5 4	3 8	3 7	3 5	0 7	1 7	8 1		8	0	0	2	8	5	5	2	2	5	5	5	5						
14	0 8	0 0 4 6	3 8	3 7	3 6	3 1	1 4	8 0		8	0	2	5	8	5	5	2	2	5	5	5	5						
14	1 1	0 0 1 8	3 9	3 8	3 7	3 1	2 0	3 2		8	6	0	6	7	7	2	2	1	5	5	5	5						
14	1 4	0 0 0 9	4 1	4 0	3 9	3 5	2 7	0 8		8	0	5	2	7	6	2	2	1	5	5	5	5						
14	1 7	0 0 0 2	4 0	3 9	3 9	2 8	1 7	0 8		7	1	0	2	7	6	1	2	1	5	5	5	5						
14	2 0	9 9 9 9	3 9	3 9	3 8	5 0	1 1	2 4		8	1	0	2	8	5	5	2	2	5	5	5	5						
14	2 3	9 9 9 4	3 9	3 9	3 8	3 3	1 0	1 6		8	5	1	6	6	6	2	2	2	5	5	5	5						
15	0 5	9 9 2 8	3 7	3 7	3 7	0 8	1 3	4 0		8	0	2	5	6	5	3	7	2	2	2	2	2	2					
15	0 8	9 8 8 2	3 7	3 7	3 7	0 7	2 1	8 1		8	4	0	4	7	6	2	2	1	5	5	5	5						
15	1 1	9 8 1 2	4 1	4 1	4 0	0 8	2 7	8 0		8	0	2	5	7	6	2	2	1	5	5	5	5						
15	1 4	9 7 4 0	4 2	4 1	3 9	0 8	2 6	8 0		8	0	2	8	7	8	4	1	5	5	5	5	5						
15	1 7	9 6 8 7	4 3	4 0	0 4	0 9	4 0	8 0		8	6	1	6	8	6	1	1	5	5	5	5	5						
15	2 0	9 6 5 2	3 9	3 9	3 8	0 8	0 1	4 0		8	6	1	6	8	6	1	1	5	5	5	5	5						
15	2 3	9 6 1 6	3 7	3 6	3 6	3 6	1 6	1 6		8	6	0	6	8	6	1	1	5	5	5	5	5						
16	0 5	9 7 6 2	3 7	3 6	3 4	2 7	4 8	1 6		8	6	1	6	8	7	1	2	2	5	5	5	5						
16	0 8	9 8 5 4	3 7	3 6	3 4	2 7	2 7	4 8		8	6	0	6	7	8	2	3	2	5	5	5	5						
16	1 1	9 9 2 6	3 7	3 5	3 1	2 5	2 1	8 1		7	0	2	7	1	8	4	3	2	5	5	5	5						
16	1 4	9 9 7 5	3 9	3 7	3 3	2 8	1 7	8 1		7	0	2	8	7	8	4	3	2	5	5	5	5						
16	1 7	9 9 9 3	3 8	3 5	3 2	3 0	1 4	8 1		3	0	2	2	2	8	8	4	0	2	2	2	2	2					
16	2 0	9 9 8 9	3 6	3 5	3 4	3 5	0 6	8 3		8	0	1	1	4	4	4	0	0	2	2	2	2	2					
16	2 3	9 9 4 0	3 6	3 6	3 5	0 5	2 0	2 4		8	0	2	2	8	7	2	2	2	5	5	5	5						
17	0 5	9 8 5 9	3 9	3 8	3 6	2 9	1 6	5 6		8	0	2	2	4	8	3	2	2	5	5	5	5						
17	0 8	9 8 7 4	3 9	3 8	3 7	5 3	0 9	6 4		8	0	2	5	5	5	4	7	2	2	2	2	2	2					
17	1 1	9 8 7 2	3 9	3 8	3 7	5 7	3 2	1 6		8	6	0	2	7	6	3	2	2	5	5	5	5						
17	1 4	9 8 6 7	4 0	3 8	3 5	3 5	2 2	1 8		6	0	1	2	4	8	4	3	2	5	5	5	5						
17	1 7	9 8 7 4	3 9	3 6	3 6	2 9	1 2	8 1		8	0	1	2	4	5	4	3	2	5	5	5	5						
17	2 0	9 8 6 9	3 8	3 7	3 7	3 2	2 2	4 0		8	2	5	6	5	5	3	7	2	2	2	2	2	2					
17	2 3	9 9 0 6	3 9	3 8	3 5	3 5	2 0	2 0		7	8	0	8	7	8	4	3	2	5	5	5	5						
18	0 5	0 0 0 2	3 8	3 7	3 6	2 9	0 8	8 0		7	8	0	2	7	8	4	3	2	5	5	5	5						
18	0 8	0 0 1 9	3 9	3 7	3 5	0 8	1 2	8 1		5	0	2	2	5	5	4	4	3	2	5	5	5						
18	1 1	0 0 3 4	3 9	3 6	3 6	2 9	1 2	8 1		7	0	3	1	5	1	4	4	3	2	5	5	5						
18	1 4	0 0 5 0	3 9	3 6	3 6	2 9	1 4	8 1		7	1	6	1	7	8	4	3	2	5	5	5	5					</td	

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
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RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF MARCH 1949																							
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						
						DIRECTION	SPEED		TOTAL CLOUD	PRES. WEATHER	PAST WEATHER	AMOUNT	TYPE	MIDDLE CLOUD	LOW	MIDDLE	HIGH	DIRECTION	SPEED				
LST.	Mbs.	"F	"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	9 9 3 5	3 8	3 7	3 7	2 9	1 9	3 2	8	7 1	7	8	6	3									
2	1	9 9 4 1	3 7	3 6	3 4	2 9	1 6	4 0	7	0 2	7	7	5	4									
2	1	9 9 4 6	3 7	3 5	3 2	2 8	1 6	8 0	7	0 2	8	7	8	3									
2	1	9 9 4 6	3 8	3 6	3 3	2 8	1 9	8 1	8	1 6	2	8	5	5									
2	1	9 9 5 6	3 8	3 6	3 3	2 9	1 7	8 1	7	0 2	8	6	5	4									
2	1	9 9 6 7	3 7	3 5	3 2	3 0	2 3	8 0	7	6	5	2	7	1	1	3							
2	1	9 9 7 5	3 5	3 5	3 5	2 4	2 6	8 1	6	0 2	8	6	1	4	3								
2	2	9 9 8 7	3 5	3 4	3 2	2 9	1 9	8 0	7	0 2	2	7	5	4	3								
2	2	9 9 8 9	3 6	3 5	3 2	2 8	1 1	8 0	8	0 2	8	7	5	4	3								
2	2	9 9 9 4	3 7	3 6	3 4	2 9	1 2	8 0	8	0 2	8	7	1	2	7								
2	2	9 9 9 4	3 7	3 6	3 2	3 0	0 6	3 2	8	8 3	8	8	5	3									
2	2	9 9 9 2	3 7	3 6	3 5	3 3	1 0	2 4	8	6 1	8	8	6	4									
2	2	9 8 9 4	3 7	3 6	3 5	3 0	1 4	1 6	8	6 1	6	8	7	2									
2	2	9 8 8 2	3 6	3 6	3 6	2 4	1 6	8 0	8	0 2	6	8	1	3									
2	3	9 9 0 8	3 5	3 5	3 1	2 1	2 6	7 2	6	1 6	7	3	7	3									
2	3	9 9 4 6	3 5	3 4	3 2	2 1	3 5	5 6	8	2 5	8	8	0	8									
2	3	9 9 8 2	3 3	3 5	3 2	2 1	3 2	8 1	8	2 6	8	8	0	3									
2	3	1 0 0 1	3 5	3 4	3 0	2 1	3 4	8 1	7	0 7	2	7	8	4									
2	3	0 0 4 9	3 5	3 1	2 5	2 2	3 0	8 0	7	1 8	2	6	1	5									
2	3	0 0 8 2	3 4	3 2	2 9	2 1	2 0	8 1	1	0 1	1	1	5	5									
2	3	0 1 0 8	3 4	3 4	3 2	2 1	1 7	4 0	7	8 5	8	7	1	3									
2	4	0 1 5 8	3 5	3 4	3 2	2 2	2 6	4 8	7	0 7	2	6	5	5									
2	4	0 1 6 9	3 6	3 3	2 8	2 0	2 6	4 8	7	0 2	2	5	5	5									
2	4	1 1 0 1	3 7	3 5	3 0	2 4	1 9	8 3	1	0 2	0	1	5	5									
2	4	1 4 0 9	3 7	3 5	3 1	2 4	1 2	8 3	6	0 3	2	2	5	6									
2	4	1 7 0 9	3 6	3 5	3 2	2 5	1 1	8 1	7	0 3	2	3	5	5									
2	4	2 0 0 2	3 7	3 5	3 3	2 7	0 4	8 1	8	0 2	2	8	5	5									
2	4	2 5 0 8	3 7	3 7	3 7	2 1	1 7	4 0	8	5 1	2	8	5	4									
2	5	0 0 5 1	3 7	3 7	3 7	2 3	1 2	4 0	8	5 0	5	8	5	3									
2	5	0 1 4 6	3 7	3 7	3 7	2 3	1 2	4 0	8	5 0	5	8	5	2									
2	5	0 8 0 8	3 7	3 7	3 7	2 3	1 0	0 8	8	5 0	5	8	5	2									
2	5	1 1 0 1	3 8	3 8	3 8	2 7	0 3	0 8	8	5 1	5	8	6	2									
2	5	1 4 0 9	3 9	3 9	3 9	2 4	1 3	0 8	8	5 1	5	8	6	2									
2	5	1 7 0 7	0 0 7 5	4 1	4 1	4 1	2 5	1 1	1 2	8	5 1	5	8	6	2								
2	5	2 0 0 4	4 1	4 1	4 0	3 2	2 0	2 4	8	0 2	5	5	6	2									
2	5	2 3 0 0	4 0	4 0	4 0	3 2	2 1	1 6	8	2 5	2	7	6	2									
2	5	2 6 0 5	3 9	3 9	3 9	5 8	2 4	1 9	3 2	8	0 0	6	8	6	5								
2	5	2 6 0 8	3 9	3 9	3 9	5 8	2 4	2 5	6 4	7	0 2	2	7	7	5								
2	5	2 6 1 1	3 9	3 9	3 9	5 6	2 4	2 3	8 0	7	2 0	2	7	1	3								
2	5	2 6 1 7	0 0 2 9	3 8	3 8	3 8	5 6	2 3	8 1	7	0 3	2	7	7	5								
2	5	2 6 2 0	0 0 5 2	3 7	3 6	3 5	2 5	1 7	8 1	7	0 2	2	6	5	5								
2	5	2 6 2 3	0 0 6 0	3 7	3 6	3 4	0 0	4 0	8 0	8	0 2	2	8	6	3								
2	5	2 7 0 5	0 0 5 1	3 5	3 5	3 5	0 9	0 4	1 6	8	5 1	5	8	6	0								
2	5	2 7 0 8	0 0 4 7	4 0	4 0	4 0	0 9	0 4	1 2	8	5 1	5	8	6	1								
2	7	2 7 1 1	0 0 3 5	4 1	4 1	4 1	1 0	0 4	0 1	9 4 5	4	9	9	9									
2	7	2 7 1 4	0 0 2 9	4 1	4 1	4 1	1 1	0 4	1 2	8	5 1	4	8	6	1								
2	7	2 7 1 7	0 0 2 4	4 1	4 1	4 0	2 0	0 4	1 2	8	5 1	5	8	6	2								
2	7	2 7 2 0	0 0 0 6	4 0	4 0	4 0	3 5	1 2	0 8	8	5 1	2	8	6	1								
2	7	2 7 2 3	0 0 2 3	3 9	3 9	3 7	5 7	2 8	1 8	8 0	8 0	2 2	8	5	4								
2	7	2 7 2 8	0 0 0 6	3 9	3 9	3 7	5 5	2 7	1 0	8 1	8 0	1 2	5	8	4								
2	7	2 7 2 8	0 0 1 1	3 8	3 6	3 2	2 8	1 2	8 0	8	0 2	2	5	8	4								
2	7	2 7 2 8	0 0 1 1	3 9	3 6	3 0	2 8	1 4	8 3	8 0	1 2	1	2	8	4								
2	7	2 7 2 8	0 0 1 9	3 8	3 5	3 0	3 0	1 2	8 2	8 0	0 2	1	3	1	5								
2	7	2 7 2 8	0 0 2 1	3 7	3 4	2 9	3 0	1 7	8 1	8 0	4 0	2	8	4	1								
2	7	2 7 2 8	0 0 2 1	3 6	3 4	3 0	3 0	1 7	8 1	8 0	4 0	2	8	4	0								
2	7	2 7 2 8	0 0 2 3	3 0	3 0	3 2	2 9	2 9	2 9	1 7	5 6	7	8 5	2	7								
2	7	2 7 2 8	0 0 5 0	3 3	3 3	3 3	3 3	2 3	2 2	8 0	6 0	0	2	6	5								
2	7	2 7 2 8	0 0 8 9	3 1	3 1	3 1	2 5	1 7	4 0	7	7 1	2	7	6	5								
2	7	2 7 2 8	0 1 1 1	3 7	3 5	3 5	3 5	1 4	4 0	7	1 6	8	7	2	2								
2	7	2 7 2 8	0 1 4 8	3 2	3 2	3 1	2 4	2 6	0 1	8	7 3	7	8	6	0								
2	7	2 7 2 8	0 1 7 7	3 4	3 3	2 9	2 4	1 9	5 6	8	1 5	7	7	8	4								
2	7	2 7 2 8	0 2 0 0	3 4	3 2	3 2	2 9	2 9	2 9	1 7	5 6	8	1 5	0	2								
2	7	2 7 2 8	0 2 3 3	3 3	3 2	3 2	2 9	2 9	2 9	1 7	5 6	7	8 5	2	7								
2	7	2 7 2 8	0 3 0 5	3 3	3 1	3 1	2 8	1 7	8 1	8 0	0 1	8 3	8 0	2 3	1	5							
2	7	2 7 2 8	0 3 1 1	3 3	3 2	3 1	2 8	1 0	8 3	8 0	0 2	8 8	8 0	6	5								
2	7	2 7 2 8	0 3 1 1	3 3	3 2	2 7	0 4	1 0	8 3	8 0	0 2	8 8	8 0	6	5								
2	7	2 7 2 8	0 3 1 1	3 3	3 2	3 2	0 9	0 1	8 1	8 0	8 3	8 0	2 3	1	5								
2	7	2 7 2 8	0 3 1 1	3 3	3 2	3 2	0 9	0 1	8 1	8 0	8 5	8 0	7	1	3								
2	7	2 7 2 8	0 3 1 1	3 3	3 2	3 2	0 9	0 1	8 1	8 0	8 5	8 0	7	1	3								
2	7	2 7 2 8	0 3 1 1	3 3	3 2	3 2	0 9	0 1	8 1	8 0	8 5	8 0	7	1	3								
2	7	2 7 2 8	0 3 1 1	3 3	3 2	3 2	0 9	0 1	8 1	8 0	8 5	8 0	7	1	3								
2	7	2 7 2 8	0 3 1 1	3 3	3 2	3 2	0 9	0 1	8 1	8 0	8 5	8 0	7	1	3								
2	7	2 7 2 8	0 3 1 1	3 3	3 2	3 2	0 9	0 1	8 1	8 0	8 5	8 0	7	1	3								

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF APRIL 194**

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF														HEARD ISLAND APRIL 1949									
DAY	HOUR	STATION ELEV. PRESSURE			WIND			VISIBILITY	TOTAL CLOUD	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST						
		DRY BULB	WET BULB	DEW POINT	DIRECTION	SPEED	DEGREES			PRESENT WEATHER	PAST WEATHER	LOW CLOUD	MIDDLE CLOUD	HIGH CLOUD	LOW	MIDDLE	HIGH	DIRECTION	SPEED				
LST.	Mbs.	"F	"F	"F	"x10	Kts.	VV	Oktas	vv	W	Oktas	C _L	C _M	C _H	C _L	C _M	C _H	Points	Miles	"x10	Kts.	Hours	
01	05	9 9 0 3	3 5	3 2	2 7	1 6	1 3	8 1	4	0 3	1	4	5	0	0	4	0	0	0	0	0	0	
01	08	9 9 6 6	3 5	3 1	2 8	2 0	1 3	8 1	4	0 3	2	4	5	5	0	0	4	0	0	0	0	0	
01	11	9 9 9 4	3 4	3 4	3 3	2 2	1 8	8 0	7	0 2	2	4	5	5	0	0	5	4	4	9	9	9	
01	14	0 0 0 4	3 5	3 3	2 9	2 1	1 1	8 1	7	0 2	2	5	5	5	0	0	5	4	4	9	9	9	
01	17	0 0 0 3	3 4	3 1	2 5	1 8	0 5	8 1	7	0 2	2	5	5	5	0	0	5	5	4	9	9	9	
01	20	9 9 7 3	3 3	3 2	2 9	0 9	1 3	8 0	8	0 2	2	6	6	6	0	0	4	9	9	9	9	9	
01	23	9 9 5 0	3 4	3 2	2 7	0 6	1 3	5 6	8	0 2	2	6	6	6	4	4	9	9	9	9	9	9	
02	05	9 8 8 5	3 2	3 2	3 1	1 5	0 5	8 1	2	7	6	5	5	5	3	0	5	4	4	9	9	9	
02	08	9 8 8 9	3 3	3 2	3 0	0 0	0 0	2 4	8	7	1	7	5	5	3	7	6	4	4	9	9	9	
02	11	9 9 2 9	3 4	3 3	3 1	0 0	0 0	0 6	8	7	1	7	5	5	3	7	5	4	4	9	9	9	
02	14	9 9 7 1	3 2	3 1	3 0	2 1	3 1	3 2	7	7	1	7	5	5	3	3	5	5	9	9	9	9	
02	17	0 0 2 7	3 3	3 2	3 0	2 1	2 5	2 4	7	8	6	7	7	5	3	0	4	0	0	0	0	0	
02	20	0 0 6 9	3 3	3 1	2 7	2 1	2 0	8 3	1	0	1	1	1	1	0	0	4	0	0	0	0	0	
02	23	0 0 9 6	3 5	3 2	2 7	2 2	1 9	8 1	7	0	2	2	2	2	1	3	3	3	3	3	3	3	
03	05	0 1 2 4	3 5	3 5	3 2	2 4	2 2	8 0	6	0	2	2	2	2	1	3	5	5	5	5	5	5	
03	08	0 1 2 3	3 6	3 4	3 1	2 3	1 0	8 1	8	0	2	2	2	2	1	3	5	5	5	5	5	5	
03	11	0 1 0 8	3 5	3 5	3 4	2 7	1 0	0 8	8	6	1	6	6	6	8	7	7	7	7	7	7	7	
03	14	0 0 5 2	3 9	3 9	3 9	3 9	3 1	1 7	0 6	8	4	0	6	6	6	7	7	7	7	7	7	7	
03	17	0 0 2 9	4 2	4 1	4 0	3 0	2 2	2 2	8	8	5	1	6	6	6	7	7	7	7	7	7	7	
03	20	0 0 1 9	4 0	4 0	4 0	2 4	1 5	0 6	6	6	5	1	6	6	6	7	7	7	7	7	7	7	
03	23	0 0 1 1	4 1	4 1	4 0	2 4	1 4	0 6	6	6	5	1	6	6	6	7	7	7	7	7	7	7	
04	05	0 1 3 3	4 4	4 3	4 2	2 7	1 9	1 2	8	5	1	5	5	5	7	7	7	7	7	7	7	7	
04	08	0 0 4 6	4 1	4 1	4 0	2 5	2 5	1 9	2 4	8	5	1	5	5	5	7	7	7	7	7	7	7	
04	11	0 0 7 3	4 1	4 1	4 1	2 4	1 4	1 2	8	6	1	6	6	6	8	7	7	7	7	7	7	7	
04	14	0 0 8 1	4 5	4 5	4 4	2 5	3 5	1 6	8	8	1	8	6	6	5	7	7	7	7	7	7	7	
04	17	0 0 9 0	5 4	5 4	5 1	4 8	2 8	2 2	1 2	8	1	0	2	5	5	7	7	7	7	7	7	7	
04	20	0 0 9 5	5 0	4 9	4 8	3 1	2 8	1 6	7	8	0	5	5	5	6	6	6	6	6	6	6	6	
04	23	0 1 0 8	4 5	4 4	4 3	3 3	3 1	1 2	8	2	5	5	5	6	6	6	6	6	6	6	6	6	
05	05	0 0 8 9	4 4	4 3	4 1	0 2	1 9	4 8	7	0	0	2	7	5	5	7	7	7	7	7	7	7	
05	08	0 0 7 6	4 4	4 3	4 1	1 0	1 0	2 4	8	6	1	2	8	6	6	3	2	2	2	2	2	2	
05	11	0 0 7 5	4 4	4 3	4 2	3 6	0 2	1 6	8	5	0	5	6	6	8	7	7	7	7	7	7	7	
05	14	0 0 6 5	4 3	4 3	4 3	3 3	0 9	0 8	8	5	0	5	5	5	8	6	6	1	1	1	1	1	
05	17	0 0 6 8	4 3	4 3	4 3	4 5	3 4	1 0	1 2	8	1	0	5	5	5	6	6	1	1	1	1	1	
05	20	0 0 7 8	4 5	4 3	4 3	4 5	3 2	1 1	1 2	8	5	1	5	5	5	6	6	2	2	2	2	2	
05	23	0 0 8 2	4 2	4 2	4 1	2 4	0 7	1 2	8	0	2	5	5	5	6	1	3	3	3	3	3	3	
06	05	0 0 6 3	3 9	3 8	3 8	3 8	0 5	0 2	0 8	8	5	1	2	2	7	5	5	7	7	7	7	7	
06	08	0 0 5 0	3 9	3 9	3 7	3 5	0 0	0 0	1 4	8	5	3	5	5	5	6	6	2	2	2	2	2	
06	11	0 0 3 8	3 9	3 9	3 9	3 9	0 7	1 0	1 2	8	6	1	6	6	6	8	7	1	1	1	1	1	
06	14	0 0 1 5	4 2	4 2	4 1	0 7	0 5	1 6	8	6	1	6	6	6	8	7	2	2	2	2	2	2	
06	17	0 0 0 4	4 3	4 3	4 3	4 3	0 6	0 5	1 2	8	6	1	6	6	6	8	7	2	2	2	2	2	
06	20	0 0 9 5	4 3	4 3	4 3	4 3	0 5	0 7	0 8	8	6	1	6	6	6	8	7	2	2	2	2	2	
06	23	0 9 8 4	4 2	4 2	4 2	4 0	0 9	0 9	0 8	8	5	1	6	6	6	8	7	1	1	1	1	1	
07	05	0 0 8 7	4 2	4 2	4 2	4 2	1 0	1 4	1 6	8	5	1	6	6	6	8	7	1	1	1	1	1	
07	08	0 0 7 6	4 4	4 3	4 1	1 0	1 2	1 2	1 4	8	5	1	6	6	6	8	7	1	1	1	1	1	
07	11	0 0 7 5	4 1	4 1	4 1	3 5	1 7	1 7	2 0	8	2	0	2	2	2	8	7	1	3	3	3	3	
07	14	0 0 7 7	3 9	3 8	3 8	3 8	0 7	2 0	2 0	8	2	0	2	2	2	7	8	4	3	3	3	3	
07	17	0 0 6 9	3 9	3 9	3 9	3 9	1 9	1 9	2 0	8	2	0	2	2	2	7	8	4	3	3	3	3	
07	20	0 0 5 5	3 8	3 8	3 8	3 8	0 9	0 9	0 8	8	2	0	2	2	2	7	8	4	3	3	3	3	
07	23	0 0 4 6	3 9	3 9	3 9	3 9	1 7	1 7	1 7	8	2	0	2	1	8	5	5	4	4	4	4	4	
08	05	0 0 8 5	3 7	3 7	3 7	3 7	2 0	2 2	2 5	8	2	0	2	2	2	3	5	5	5	5	5	5	
08	08	0 0 5 4	3 7	3 7	3 2	3 0	2 2	2 5	2 1	8	2	0	2	2	2	3	5	5	5	5	5	5	
08	11	0 0 7 4	3 9	3 7	3 5	3 1	2 3	2 3	2 3	8	2	0	2	2	2	3	5	5	5	5	5	5	
08	14	0 0 9 4	3 8	3 8	3 3	3 0	2 0	2 0	2 0	8	2	0	2	2	2	4	6	4	4	4	4	4	
08	17	0 0 9 2	3 7	3 7	3 5	3 0	2 9	1 6	1 6	8	2	0	2	2	2	8	7	5	5	5	5	5	
08	20	0 0 9 5	3 7	3 7	3 4	2 8	3 0	1 7	1 7	8	2	0	1	8	3	5	1	4	4	4	4	4	
08	23	0 0 9 8	3 5	3 5	3 5	3 0	2 9	1 4	1 4	8	2	0	1	1	1	4	1	0	0	0	0	0	
09	05	0 0 5 1	3 6	3 4	3 0	3 0	1 6	8 1	6	0	0	2	3	8	6	4	0	0	0	0	0	0	
09	08	0 0 5 0	3 6	3 4	3 1	2 7	0 5	8 1	4	0	3	2	3	8	6	4	0	0	0	0	0	0	
09	11	0 0 6 5	3 7	3 6	3 4	2 3	1 0	8 1	7	0	3	2	3	8	6	4	0	0	0	0	0	0	
09	14	0 0 7 5	3 9	3 6	3 2	2 9	0 6	8 3	5	0	2	2	3	2	4	3	3	3	3	3	3	3	
09	17	0 0 9 0	3 7	3 5	3 3	2 6	0 6	8 1	7	0	2	2	3	2	4	3	3	3	3	3	3	3	
09	20	0 0 9 6	3 6	3 5	3 3	2 8	1 0	8 1	7	0	3	1	4	1	4	3	3	3	3	3	3	3	
09	23	0 0 9 9	3 5	3 4	3 2	1 9	0 2	8 1	7	0	2	2	3	1	4	3	3	3	3	3	3	3	
10	05	0 0 7 1	3 7	3 7	3 6	3 6	0 8	8 1	8	0	0	0	2	3	2	4	3	3	3	3	3	3	
10	08	0 0 5 5	3 7	3 7	3 7	3 7	0 2	0 6	1 6	8	0	0	0	0	0	0	0	0	0	0	0	0	
10	11	0 0 3 3	3 7	3 7	3 6	3 6	0 6	2 4	8	0	0	0	1	6	6	2	2	2	2	2	2	2	
10	14	0 0 0 2	3 8	3 8	3 8	3 8	0 7	0 9	1 6	8	0	0	1	6	6	2	2	2	2	2	2	2	

RESULTS OF SURFACE OBSERVATIONS AT																HEARD ISLAND APRIL 1949												
DAY	HOUR	STATION LEVEL PRESSURE			WIND		DEW POINT	DIRECTION	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	LOW CLOUD AMOUNT	TYPE	HEIGHT	CLOUD DIRECTION			MAXIMUM TEMPERATURE °F	MINIMUM TEMPERATURE °F	PRECIPITATION	ANEMOMETER		MAXIMUM GUST		SUNSHINE		
		DRY BULB °F	WET BULB °F	DEW POINT °F	SPEED *x10	Kts.	VV	Oktas	ww	W	Oktas	C _L	h	MIDDLE	MIDDLE	HIGH	DIRECTION	SPEED	MILES	*x10 Kts.	Hours							
11	0 5	9 8 0 6	3 8	3 7	3 6	0 1	0 9	4 0	8	5 1	5	6	6	2	3													
11	0 8	9 7 4 2	3 7	3 6	3 5	3 5	1 7	2 4	8	6 1	6	6	6	2	3													
11	1 1	9 7 3 5	3 9	3 7	3 5	3 0	2 4	4 0	7	2 5	6	6	7	2	3													
11	1 4	9 7 5 0	3 9	3 8	3 7	2 9	1 2	6 4	8	1 6	6	6	8	7	2													
11	1 7	9 7 7 4	3 6	3 5	3 4	2 5	4 0	5 6	8	1 8	8	8	8	3														
11	2 0	9 8 2 5	3 5	3 5	3 3	2 5	3 9	2 4	8	8 7	8	8	8	2	3													
11	2 3	9 8 6 8	3 5	3 3	2 9	2 4	3 9	2 4	8	1 8	8	8	8	3														
12	0 5	9 9 4 6	3 3	3 2	3 0	2 4	3 5	2 4	8	2 5	8	8	8	3														
12	0 8	9 9 5 1	3 4	3 2	2 7	2 4	3 8	8 0	8	1 8	8	8	7	5	4	4	8	9 9	4 0	3 3	0 0 6 3	1 7 9	2 5	5 8	0 0 5			
12	1 1	9 9 4 9	3 6	3 3	2 8	2 4	2 8	9 1	7	0 2	2 2	7	1	5														
12	1 4	9 9 4 0	3 5	3 5	3 5	2 4	1 2	1 6	8	8 0	8	8	8	2	5													
12	1 7	9 9 0 1	3 9	3 8	3 7	2 9	1 5	4 0	8	8 0	8	8	8	3														
12	2 0	9 8 5 7	3 9	3 8	3 7	3 1	2 6	1 2	8	5 1	8	8	8	6	5													
12	2 3	9 8 3 5	3 7	3 5	3 1	3 0	1 5	8 0	6	0 1	2	6	8	3														
13	0 5	9 6 6 5	3 4	3 2	2 9	2 2	3 8	8 0	8	8 0	8	8	8	3														
13	0 8	9 9 3 4	3 2	3 1	2 9	2 4	3 8	6 4	8	8 7	8	8	8	5														
13	1 1	9 9 9 3	3 5	3 1	2 3	2 5	3 3	8 0	8	2 2	8	8	8	2	4													
13	1 4	0 0 2 4	3 5	3 2	2 7	2 5	3 6	6 4	7	1 8	8	8	8	4														
13	1 7	0 0 5 7	3 6	3 3	2 8	2 5	3 5	8 0	7	1 8	8	8	7	2	4													
13	2 0	0 0 8 7	3 5	3 4	3 3	2 6	2 5	8 0	7	1 8	8	8	7	2	4													
13	2 3	0 1 0 5	3 4	3 4	3 3	2 5	3 1	8 1	8	0 2	2	8	5	4														
14	0 5	0 1 3 9	3 6	3 5	3 5	2 2	1 9	3 2	7	0 2	2	7	5	4	1													
14	0 8	0 1 5 3	3 5	3 5	3 5	2 2	1 2	5 6	8	2 2	8	8	8	4		1	5	6										
14	1 1	0 1 4 1	3 7	3 5	3 5	3 0	0 9	8 1	7	0 2	2	3	1	4	3	1	5	6										
14	1 4	0 1 4 4	3 7	3 5	3 5	0 1	0 7	8 1	8	0 3	8	8	8	5														
14	1 7	0 1 2 9	3 6	3 5	3 4	0 6	1 2	8 1	7	0 1	2	4	5	5														
14	2 0	0 1 1 2	3 7	3 5	3 3	0 7	1 7	8 0	8	6 1	8	8	8	7	4													
14	2 3	0 0 9 1	3 7	3 7	3 7	0 9	1 1	1 2	8	5 1	5	8	8	2														
15	0 5	0 0 5 0	3 7	3 7	3 7	2 3	1 2	8 0	8	0 0	5	6	2	5	1	4	7	9	9	9	3 2	0 0 0 3	5 3 9	2 4	4 0	0 0 5		
15	0 8	0 0 4 4	3 7	3 7	3 7	0 4	0 8	0 3	9	4 3	4	9	9	0														
15	1 1	0 0 1 2	4 1	4 1	4 1	0 7	0 9	1 2	8	5 1	5	8	6	1														
15	1 4	9 9 5 5	3 9	3 8	4 1	1 2	0 9	8 0	8	5 3	5	8	6	2														
15	1 7	9 8 9 9	4 4	4 4	4 3	0 5	2 3	1 2	8 0	6 2	6	5	7	3														
15	2 0	9 8 5 9	4 2	4 2	4 2	0 9	1 0	0 8	8 0	6 3	6	8	0	1	2													
15	2 3	9 8 3 0	4 0	3 9	5 7	3 0	2 2	8 1	7	2 5	8	7	7	3														
16	0 5	9 8 2 2	3 8	3 5	3 1	3 2	3 5	8 0	6	2 2	8	6	8	4														
16	0 8	9 8 3 8	3 9	3 5	2 7	3 1	4 0	8 1	8	1 8	2	8	8	5														
16	1 1	9 8 5 9	3 9	3 5	3 0	3 2	3 8	8 1	6	1 8	2	8	8	5	3													
16	1 4	9 8 9 2	3 9	3 5	2 7	3 1	3 5	8 0	8	0 2	8	8	8	5														
16	1 7	0 9 9 3	3 8	3 5	3 1	3 1	2 2	8 1	6	2 5	8	8	4	1	5													
16	2 0	9 9 6 3	3 8	3 5	3 2	3 0	2 5	8 1	8	0 2	8	8	5	5	4	7	0	6	6	9	9	4 5	3 5	0 0 2 0	1 5 2	3 0	4 7	0 0 0
16	2 3	9 9 7 2	3 8	3 5	3 5	3 2	2 2	8 1	8	0 2	2	8	6	5	4	1	7	9	9	9	4 0	3 6	0 0 8 3	3 5 8	3 1	6 8	0 1 2	
17	0 5	9 9 4 0	3 9	3 8	3 6	1 0	0 5	6 4	8	0 2	2	8	5	4														
17	0 8	9 9 0 9	3 9	3 8	3 6	0 7	1 0	4 0	8	0 2	2	8	6	2														
17	1 1	9 8 7 5	4 0	4 0	4 0	0 4	1 2	8 1	8 0	1 2	7	2	7	6	2													
17	1 4	9 8 4 0	4 0	4 0	4 0	0 7	0 6	2 4	8	6 3	6	6	6	1														
17	1 7	9 8 0 6	3 9	3 8	3 7	3 5	0 5	1 0	8 1	8 0	2	6	1	6	1	7	7	8	9	9	4 1	3 6	0 0 0 1	4 3 2	3 2	3 9	0 0 0	
17	2 0	9 8 1 0	3 8	3 7	3 7	0 9	0 5	5 6	8	5 0	5	8	6	2														
18	0 5	9 7 7 8	3 8	3 8	3 7	0 1	0 8	8 1	8	0 0	2	8	5	4														
18	0 8	9 7 6 3	3 8	3 7	3 7	3 3	1 5	2 4	8 8	8 9	2	3	7	3														
18	1 1	9 7 6 1	3 9	3 7	3 5	3 1	2 0	8 1	7	2 5	8	7	2	3														
18	1 4	9 7 9 6	3 7	3 5	3 2	2 4	1 9	8 2	8	2 6	8	7	2	3														
18	1 7	9 8 1 4	3 6	3 5	3 3	3 0	1 2	8 1	7	0 2	2	7	8	5														
18	2 0	9 8 2 3	3 7	3 5	3 2	2 9	1 5	8 1	7	0 2	2	3	5	4														
19	0 5	9 8 2 2	3 6	3 4	3 1	2 9	2 2	8 1	7	2 0	2	7	4	8	4	0	3	7	0	0	3 9	3 5	0 0 3 9	1 6 1	3 2	4 0	0 0 8	
19	0 8	9 8 0 4	3 6	3 5	3 4	3 2	1 7	6 4	8	2																		

RESULTS OF SURFACE OBSERVATIONS AT																HEARD ISLAND APRIL 1949																				
DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB		WET BULB		DEW POINT		WIND		VISIBILITY		TOTAL CLOUD		PRESENT WEATHER		LOW CLOUD		CLOUD DIRECTION		MIDDLE CLOUD		HIGH CLOUD		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 _M	Ch	C _L	C _M	h	C _M	Ch	°F	°F	Points	Miles	*x10	Kts.	Hours						
21	05	9 7 9 5	5 6	3 5	2 8	3 0	2 2	8 0	7	0 0	2	7	8	4					6	9	9	9														
21	08	9 8 0 2	5 6	3 5	3 0	2 9	2 4	8 1	7	0 2	2	7	8	4					6	9	9	9														
21	11	9 7 8 8	5 6	3 4	5 1	3 2	2 6	5 6	8	8 0	2	8	2	3					6	9	9	9														
21	14	9 6 3 9	3 4	3 2	2 8	2 4	2 8	6 4	8	8 0	8	8	2	4					5	9	9	9														
21	17	9 8 9 0	3 0	3 0	3 0	2 3	2 7	0 8	8	7 1	7	2	7	1					5	9	9	9														
21	20	9 9 4 0	3 1	3 1	3 0	2 3	3 5	8 1	6	2 7	8	6	2	4					5	9	9	9														
21	23	9 9 7 5	2 8	2 8	2 8	2 2	3 2	8 0	5	2 7	8	5	2	4					5	9	9	9														
22	05	0 0 3 0	3 1	3 0	2 7	2 4	2 8	8 0	7	2 7	8	7	8	4					5	9	9	9														
22	08	0 0 5 6	3 0	3 0	2 9	2 9	2 4	6 6	9	7 3	8	9	4					4	9	9	9															
22	11	0 0 6 3	3 3	3 1	2 7	2 6	1 7	8 1	7	0 2	3	7	8	4					6	9	9	9														
22	14	0 0 5 9	3 4	3 1	2 5	2 5	2 4	9 3	6	0 3	2	3	8	4					5	5	5	5														
22	17	0 0 6 6	3 0	3 0	3 0	2 3	1 7	8 1	7	2 2	2	6	2	4					6	9	9	9														
22	20	0 0 7 3	3 2	2 9	2 4	2 2	0 9	8 1	3	0 1	8	3	5	4					5	5	0	0														
22	23	0 0 7 5	3 1	3 1	3 0	2 9	2 4	8 0	2 0	0 4	2	5	2	4					5	0	0	0														
23	05	0 0 9 4	3 0	2 9	2 7	0 0	0 0	9 1	6	0 3	1	6	5	5					7	9	9	9														
23	08	0 1 1 8	3 2	2 9	2 3	1 0	0 2	8 3	8	0 2	2	8	6	6					6	9	9	9														
23	11	0 1 3 6	3 3	2 9	2 1	1 0	0 3	8 3	8	0 2	2	8	5	5					6	9	9	9														
23	14	0 1 4 0	3 5	3 1	2 4	0 3	0 2	8 3	7	0 1	2	7	8	4					6	9	9	9														
23	17	0 1 3 2	3 4	3 1	2 5	3 5	0 5	8 3	7	0 3	1	1	2	6					6	9	9	9														
23	20	0 1 0 7	3 5	3 5	2 9	2 9	1 0	8 1	8	0 2	2	8	5	4					9	9	9	9														
23	23	0 0 7 5	3 6	3 5	3 0	2 9	0 1	8 1	8	0 2	2	8	5	4					9	9	9	9														
24	05	9 9 3 6	3 6	3 4	3 5	1 4	5 6	8 0	6	1	7	8	7	2					9	9	9	9														
24	08	9 9 0 6	3 7	3 5	3 4	3 1	1 9	5 6	6	1	6	8	7	2					6	9	9	9														
24	11	9 9 2 0	3 6	3 4	3 0	2 9	1 9	5 4	8	6	1	6	7	2					6	9	9	9														
24	14	9 9 1 4	3 4	3 4	3 0	2 8	3 0	4 8	8	7 2	8	8	2	8					6	9	9	9														
24	17	9 9 4 0	3 4	3 1	2 7	2 7	8 1	8	0 2	8	7	2	4	3					5	9	9	9														
24	20	9 9 6 2	3 4	3 2	2 7	2 6	8 1	8	0 2	8	7	2	4	3					5	9	9	9														
24	23	9 9 6 2	3 7	3 5	3 2	2 7	2 6	8 1	8	0 2	8	8	2	3					5	9	9	9														
25	05	9 9 5 5	3 7	3 4	3 0	2 7	3 6	8 1	8	1 8	2	8	8	8					3	5	9	9														
25	08	9 9 8 1	3 7	3 4	2 9	2 9	3 3	4 0	8	1 8	2	8	8	6					6	9	9	9														
25	11	9 9 9 9	3 6	3 4	3 1	2 5	2 6	6 4	8	2 5	2	7	8	4					5	5	5	5														
25	14	0 0 1 2	3 7	3 4	3 0	3 0	2 2	6 4	8	0 2	2	8	8	4					5	5	5	5														
25	17	0 0 0 7	3 6	3 4	3 0	2 5	2 7	9 0	7	0 1	2	5	6	4					5	5	5	5														
25	20	0 0 0 9	3 6	3 5	3 3	2 5	1 9	8 0	7	0 2	2	7	8	4					9	9	9	9														
25	23	0 0 1 1	3 5	3 4	3 2	2 4	1 4	8 0	8	0 2	2	8	5	4					9	9	9	9														
26	05	0 0 1 1	3 5	3 4	3 2	2 5	0 6	8 1	8	0 2	2	8	5	4					3	7	3	3														
26	08	0 0 1 9	3 5	3 4	3 0	2 9	0 7	8 1	8	0 3	6	7	6	3					1	9	9	9														
26	11	0 0 2 3	3 7	3 7	3 7	0 7	1 1	0 8	8	5 1	5	8	6	2					1	9	9	9														
26	14	0 0 2 3	3 7	3 7	3 7	0 0	0 0	2 4	8	5 1	5	8	6	3					6	9	9	9														
26	17	0 0 3 7	3 9	3 9	3 9	2 5	1 2	1 0	8	5 1	5	8	6	2					5	9	9	9														
26	20	0 0 4 3	4 0	4 0	3 9	2 2	1 7	0 8	8	2 0	5	8	6	2					9	9	9	9														
27	05	0 0 2 4	4 9	4 7	4 5	5 0	3 1	0 0	8	0 0	2	8	5	3					5	5	5	5														
27	08	0 0 2 5	4 4	4 5	4 2	2 5	2 2	0 8	8	5 0	5	8	6	2					5	5	5	5														
27	11	0 0 0 7	4 2	4 2	4 2	2 8	2 4	2 4	8	5 0	5	7	6	2					6	9	9	9														
27	14	9 9 7 9	4 2	4 1	4 1	3 6	0 2	2 4	8	6 1	6	7	7	2					7	9	9	9														
27	17	9 9 4 0	4 2	4 2	4 2	3 2	1 7	2 4	8	6 1	6	6	7	2					7	9	9	9														
27	20	9 9 1 5	4 3	4 2	4 0	3 1	2 6	2 4	8	0 2	6	8	7	2					7	9	9	9														
28	05	0 0 7 6	3 6	3 4	3 3	2 5	2 5	5 6	4 0	5	2 5	8	5	2					5	5	5	5														
28	08	0 0 9 9	3 7	3 4	2 8	2 6	2 2	8 1	8	0 3	2	8	8	5					5	5	5	5														
28	11	0 1 1 2	3 7	3 5	3 2	2 8	1 9	8 2																												

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF												HEARD ISLAND MAY 1949															
DAY	HOUR	STATION LEVEL PRESSURE		WIND		DEW POINT	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER		AMOUNT	CLOUD DIRECTION		LOW CLOUD	MIDDLE CLOUD	HIGH CLOUD	LOW	MIDDLE	HIGH	MAXIMUM TEMPERATURE		PRECIPITATION	ANEMOMETER DIRECTION		MAXIMUM GUST		SUNSHINE
		DRY BULB	WET BULB	DIRECTION	SPEED				WW	W		Oldes	C _L	h	C _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.	Hours	
01	05	99.958	3.6	3.3	2.8	0.2	2.2	8	0.2	7.1	2	8	8	8	4	4	4	9	9	9	3.9	3.3	0010	275	3.4	4.1	025
01	08	99.918	3.4	3.3	3.2	0.1	2.1	1.6	7	1	1	3	3	1	4	4	3	0	6	6	6	0					
01	11	99.853	3.9	3.5	2.8	0.4	1.7	6.4	7	2	1	3	3	1	4	4	3	0	6	6	6	0					
01	14	99.872	3.7	3.5	3.2	0.2	1.9	4.1	4	2.5	1	3	3	1	4	4	3	0	6	6	6	0					
01	17	99.874	3.7	3.5	3.1	1	1.5	8.1	7	0.3	2	8	2	2	2	2	2	2	2	2	2	2					
01	20	99.875	3.6	3.3	2.9	1.1	1.9	8.1	7	2.0	2	8	2	2	2	2	2	2	2	2	2	2					
01	23	99.810	3.6	3.3	2.9	1.1	1.9	8.1	7	2.0	2	8	2	2	2	2	2	2	2	2	2	2					
02	05	99.841	3.5	3.3	2.8	0.2	1.3	4.8	5	8.7	1	5	5	4	4	4	3	0	1	6	0	9					
02	08	99.864	3.5	3.3	2.8	0.2	1.3	4.8	5	8.7	1	5	5	4	4	4	3	0	1	6	0	9					
02	11	99.856	3.6	3.4	3.0	0.2	2.9	1.7	8.1	8	0.2	8	8	7	7	7	7	7	7	7	7	7					
02	14	99.830	3.6	3.4	3.0	0.3	3.5	1.2	8.1	8	2.6	8	8	8	8	8	8	8	8	8	8	8					
02	17	99.816	3.4	3.2	2.8	0.1	3.1	1.6	8.1	4	0.2	8	8	8	8	8	8	8	8	8	8	8					
02	20	99.803	3.2	3.2	3.1	0.1	1.1	1.6	8.1	7	2.6	8	8	8	8	8	8	8	8	8	8	8					
02	23	99.793	3.5	3.1	2.6	2.9	1.6	8.1	6	2.6	8	8	8	8	8	8	8	8	8	8	8	8					
03	05	99.814	3.5	3.3	3.2	0.1	3.1	2.1	8.1	7	2.6	8	8	8	8	8	8	8	8	8	8	8					
03	08	99.823	3.2	3.0	3.0	0.1	3.0	2.8	8.1	7	2.6	8	8	8	8	8	8	8	8	8	8	8					
03	11	99.845	3.4	3.3	3.0	0.1	3.1	2.4	8.0	8	0.8	8	8	8	8	8	8	8	8	8	8	8					
03	14	99.856	3.5	3.3	3.0	0.1	3.0	1.4	4.8	7	2.6	8	8	8	8	8	8	8	8	8	8	8					
03	17	99.855	3.1	3.1	3.1	0.1	2.4	1.4	8.1	7	2.7	8	8	8	8	8	8	8	8	8	8	8					
03	20	99.844	3.2	3.0	2.6	2.1	1.7	8.1	7	2.6	8	8	8	8	8	8	8	8	8	8	8	8					
03	23	99.860	3.2	2.9	2.9	0.1	2.1	2.4	1.6	8.1	6	2.6	8	8	8	8	8	8	8	8	8	8					
04	05	99.929	2.9	2.8	2.6	0.2	2.3	2.2	6.4	6	2.7	8	8	8	8	8	8	8	8	8	8	8					
04	08	99.958	2.9	2.8	2.6	0.2	2.3	2.4	8.1	5	3.6	2	8	8	8	8	8	8	8	8	8	8					
04	11	99.965	3.5	3.1	2.7	0.2	2.8	1.2	8.1	7	8.5	7	7	7	7	7	7	7	7	7	7	7					
04	14	99.961	3.2	2.9	2.5	0.1	3.0	1.4	8.1	7	0.3	8	8	8	8	8	8	8	8	8	8	8					
04	17	99.941	3.3	3.1	2.7	0.1	3.4	1.7	4.8	8	8.9	2	8	8	8	8	8	8	8	8	8	8					
04	20	99.874	3.3	3.3	3.0	0.1	3.6	2.4	0.8	8	7.1	7	7	7	7	7	7	7	7	7	7	7					
04	23	99.852	3.2	3.1	2.9	0.1	3.1	1.4	8.0	7	2.6	8	8	8	8	8	8	8	8	8	8	8					
05	05	99.842	3.2	3.0	3.1	0.1	2.8	1.7	8.1	5	2.7	8	8	8	8	8	8	8	8	8	8	8					
05	08	99.839	3.3	3.0	2.4	0.1	2.7	1.5	8.1	6	2.7	8	8	8	8	8	8	8	8	8	8	8					
05	11	99.864	3.1	3.1	2.9	1.9	1.9	4.0	7	8.8	8	7	7	7	7	7	7	7	7	7	7	7					
05	14	99.921	3.4	3.2	2.8	2.2	2.3	8.1	8	0.2	8	8	8	8	8	8	8	8	8	8	8	8					
05	17	99.987	3.2	3.1	2.9	2.3	3.2	5.6	8	2.7	8	7	7	7	7	7	7	7	7	7	7	7					
05	20	99.045	3.2	2.9	2.5	2.2	2.5	8.0	8	7.0	2	8	8	8	8	8	8	8	8	8	8	8					
05	23	99.042	3.3	3.1	2.7	2.4	2.1	8.1	5	0.1	1	5	4	4	0	0	0	6	0	0	0	3					
06	05	99.944	3.5	3.4	3.3	2.9	2.4	2.4	8.1	8	0.2	8	8	8	8	8	8	8	8	8	8	8					
06	08	99.918	3.4	3.3	3.0	2.3	2.0	2.2	8.1	8	2.7	8	8	8	8	8	8	8	8	8	8	8					
06	11	99.962	3.5	3.5	3.2	2.9	2.3	8.1	8	2.6	8	8	8	8	8	8	8	8	8	8	8	8					
06	14	99.958	3.5	3.4	3.2	2.8	2.8	1.5	8.1	8	0.2	8	8	8	8	8	8	8	8	8	8	8					
06	17	99.956	3.4	3.4	3.2	2.8	2.4	2.0	8.1	8	2.6	8	8	8	8	8	8	8	8	8	8	8					
06	20	99.944	3.4	3.3	3.1	2.6	2.1	1.1	8.0	8	0.8	8	8	8	8	8	8	8	8	8	8	8					
06	23	99.918	3.4	3.3	3.0	2.3	2.0	0.3	8.1	8	0.2	8	8	8	8	8	8	8	8	8	8	8					
07	05	99.822	3.6	3.5	3.4	3.2	3.0	2.8	6.4	8	0.2	8	8	8	8	8	8	8	8	8	8	8					
07	08	97.966	3.2	3.2	3.1	2.9	2.1	1.6	8.1	8	2.6	8	8	8	8	8	8	8	8	8	8	8					
07	11	97.511	3.3	3.3	3.1	3.1	2.5	2.3	5.1	1	3.1	2.5	1.6	1.0	1	0	8	7	7	7	7	7					
07	14	96.877	3.4	3.4	3.0	3.1	2.6	2.6	6.4	7	2.6	7	7	7	7	7	7	7	7	7	7	7					
07	17	96.667	3.4	3.1	2.6	2.6	2.9	3.5	8.0	7	2.7	8	7	7	7	7	7	7	7	7	7	7					
07	20	96.877	3.5	3.2	3.1	2.3	2.3	3.5	8.1	7	8.5	8	7	7	7	7	7	7	7	7	7	7					
07	23	97.339	3.0	3.0	3.0	3.0	2.4	2.3	8.1	8	2.6	8	8	8	8	8	8	8	8	8	8	8					
08	05	98.009	3.0	3.1	2.9	2.6	2.4	2.4	8.1	7	1.8	7	7	7	7	7	7	7	7	7	7	7					
08	08	98.557	3.2	3.2	2.9	2.4	2.4	3.3	8.1	8	1.8	7	7	7	7	7	7	7	7	7	7	7					
08	11	98.888	3.1	3.1	2.7	3.0	2.7	1.7	8.1	7	2.6	8	7	7	7												

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF												HEARD ISLAND MAY 1949												
DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND		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			VV	Oktas	WW	W	Oktas	C _L	h	C _M	C _H	"F	"F	Points	Miles	*x10	Kts.	Hours	
11	0 5	9 9 6 1	3 7	3 6	3 5	2 7	2 6	1 6	0 8	8	5 1	5	8	5	2	5	9	9						
11	0 8	9 9 5 9	3 6	3 5	3 5	2 5	2 0	1 2	8	5 3	5	3	8	5	2	5	9	9						
11	1 1	9 9 6 5	3 7	3 6	3 5	2 5	1 9	1 2	8	5 0	5	8	6	2	5	9	9	9						
11	1 4	9 9 6 8	3 7	3 6	3 5	2 7	2 7	0 8	8	5 0	5	8	6	2	5	9	9	9						
11	1 7	9 9 7 8	3 7	3 6	3 5	2 3	2 2	0 8	8	5 0	5	8	6	2	5	9	9	9						
11	2 0	9 9 8 8	3 7	3 6	3 4	2 6	2 4	4 0	8	0 2	5	8	6	3	5	9	9	9						
11	2 3	0 0 0 3	3 7	3 6	3 4	2 5	2 6	3 2	8	5 0	5	8	6	3	5	9	9	9	3 8	3 5	0 0 1 0	2 8 7	2 8 4 6 0 0 0	
12	0 5	0 0 3 8	3 6	3 5	3 3	2 4	2 4	4 0	8	0 2	5	8	6	3	6	9	9	9						
12	0 8	0 0 5 4	3 5	3 5	3 4	2 5	2 4	6 4	8	2 0	8	5 3	5	8	6	2	5	9	9					
12	1 1	0 0 6 5	3 5	3 5	3 4	2 5	2 2	2 0	8	0 5	5	8	6	2	5	9	9	9						
12	1 4	0 0 6 8	3 6	3 5	3 3	2 5	1 7	1 6	8	5 0	5	8	6	2	5	9	9	9						
12	1 7	0 0 7 3	3 5	3 4	3 3	2 7	1 2	1 2	8	5 0	5	8	6	2	6	9	9	9						
12	2 0	0 0 5 6	3 6	3 5	3 4	2 5	0 8	3 2	8	5 0	5	8	6	2	6	9	9	9						
12	2 3	0 0 3 5	3 6	3 5	3 5	2 0	0 5	8 1	8	0 1	2	8	5	5	6	6	9	9						
13	0 5	9 9 5 0	4 0	4 0	3 9	3 2	2 2	1 8	8	5 1	2	8	6	3	6	9	9	9						
13	0 8	9 9 2 6	3 9	3 9	3 9	2 9	1 9	2 0	8	5 1	5	8	7	2	7	9	9	9						
13	1 1	9 9 2 6	3 5	3 3	3 2	2 4	4 0	1 2	8	8 6	6	8	8	2	6	9	9	9						
13	1 4	9 9 5 1	3 5	3 1	2 4	2 6	3 5	8 2	7	0 2	8	7	2	5	5	5	9	9						
13	1 7	9 9 8 0	3 4	3 1	2 5	2 5	4 2	8 2	7	0 2	8	7	1	5	5	5	9	9						
13	2 0	0 0 1 9	3 3	3 1	2 7	2 4	3 4	0 8	8	8 5	8	9	3	3	0	0	4	0	4 2	2 9	0 0 0 8	2 8 6	2 5 7 3 0 2 2	
13	2 3	0 0 3 7	3 3	3 1	2 8	2 9	2 5	8 0	8	6 0 1	8	8 6	8	5	0	0	4	0	4 2	2 9	0 0 0 8	2 8 6	2 5 7 3 0 2 2	
14	0 5	0 0 5 9	3 4	3 1	2 5	2 5	3 4	8 1	7	8 5	8	6	8	5	4	9	9	9						
14	0 8	0 1 0 7	3 3	3 0	2 4	2 3	3 0	8 3	7 2	0 1	2	8	5	5	0	0	4	0						
14	1 1	0 1 3 7	3 4	3 0	2 1	2 5	2 2	8 3	7 3	0 3	1	7	5	5	0	4	9	9						
14	1 4	0 1 5 1	3 4	3 1	2 5	2 5	1 7	8 3	7	0 2	2	7	5	5	0	5	9	9						
14	1 7	0 1 6 0	3 4	3 2	2 7	2 4	1 4	6 4	8	0 3	2	8	8	5	0	6	9	9						
14	2 0	0 0 6 2	3 4	3 1	2 6	2 7	0 8	8 0	8	0 2	2	8	8	3	0	5	9	9						
14	2 3	0 1 6 1	3 4	3 2	2 7	3 0	0 5	8 0	8	0 2	2	8	5	5	4	6	9	9						
15	0 5	0 1 1 2	3 4	3 2	2 8	0 2	1 0	8 1	8	0 2	2	8	5	5	4	1	1	9	9					
15	0 8	0 0 7 3	3 5	3 3	2 9	0 7	1 8	8 1	8	0 9	2	8	5	5	4	2	9	9						
15	1 1	0 0 2 3	3 4	3 3	3 2	0 8	2 3	1 0	8	7 7	7	8	6	3	2	9	9	9						
15	1 4	9 9 5 8	3 8	3 7	3 6	1 0	1 7	1 6	8	6 1	6	8	0	4	2	2	9	9						
15	1 7	9 9 2 1	3 9	3 9	3 9	0 7	1 2	0 6	8	5 1	5	8	0	2	2	9	9	9						
15	2 0	9 9 0 2	3 7	3 7	3 6	3 1	0 5	1 2	8	5 1	5	8	6	4	2	7	9	9						
15	2 3	9 9 8 5	3 6	3 5	3 4	2 7	1 5	1 6	8	5 1	5	8	6	4	2	7	9	9						
16	0 5	9 9 1 3	3 4	3 3	3 2	2 2	4 3	0 8	7	5 0	5	7	6	3	0	4	9	9						
16	0 8	9 9 6 7	3 5	3 2	3 0	2 2	2 9	2 4	8	8 9	8	3	8	3	0	4	0	0						
16	1 1	0 0 2 0	3 5	3 2	2 9	2 1	2 4	8 2	8	1 5	8	3	5	5	0	5	0	0						
16	1 4	0 0 5 4	3 5	3 2	3 1	2 5	2 5	8 2	7	0 3	1	5	5	4	0	5	0	0						
16	1 7	0 0 5 5	3 5	3 2	3 0	0 1	0 2	8 1	8	0 3	2	7	5	3	0	8	9	9						
16	2 0	0 0 6 1	3 5	3 1	2 8	0 4	1 5	8 1	8	0 2	2	8	6	3	2	2	9	9						
16	2 3	0 0 5 0	3 5	3 1	2 8	0 5	2 2	8 1	8	0 2	2	8	6	4	2	2	9	9						
17	0 5	9 9 3 5	3 5	3 4	3 2	0 8	2 2	2 0	8	7 9	7	8	0	4	2	2	9	9						
17	0 8	9 9 0 3	3 7	3 7	3 7	0 4	0 6	8	5 1	7	8	0	6	1	2	2	9	9						
17	1 1	9 9 2 6	3 8	3 7	3 5	3 0	2 1	2 0	8	5 1	7	7	2	3	1	6	6	6						
17	1 4	9 9 6 5	3 7	3 5	3 2	2 5	2 5	8 1	8	0 3	5	7	1	3	1	5	9	9						
17	1 7	0 0 0 8	3 6	3 4	3 0	2 5	2 1	8 0	8	0 2	2	8	5	5	5	5	9	9						
17	2 0	0 0 2 7	3 7	3 5	3 2	2 9	0 7	8 0	8	0 2	2	8	8	4	2	2	9	9						
17	2 3	0 0 1 9	3 7	3 5	3 5	2 9	2 3	4 0	8	5 0	5	8	6	4	2	2	9	9						
18	0 5	0 0 2 1	3 5	3 4	3 2	2 4	1 2	8 2	5 0	0 2	2	1	4	4	0	8	6	9						
18	0 8	0 0 1 1	3 4	3 3	3 1	0 0	0 0	8 3	7	0 3	2	1	7	6	5	7	2	9						
18	1 1	9 9 6 0	3 6	3 5	3 5	0 8	1 6	8 2	8	4 0	5	7	6	3	2	2	9	9						
18	1 4	9 8 7 1	3 8	3 8	3 8	0 7	1 7	1 6	8	6 3	6	8	0	2	2	2	9	9						
18	1 7	9 7 9 6	4 2	4 2	4 2	0 4	0 8	0 9	8	5 1	5	8	7	1	1	1	9	9						
18	2 0	9 7 3 9	3 9	3 8	3 8	3 0	2 2	8 0	8	0 2	2	8	8	3	4	2	2	9						
18	2 3	9 7 2 6	4 0	3 7	3 2	3 0	3 6	2 0	8	8 0	8	8	8	2	4	7	9	9						
19	0 5	9 7 4 5	3 6	3 4	2 8	3 2	4 1	1 6	8	1 8	8	8	6	4	3	7	9	9						
19	0 8	9 7 5 7	3 7	3 4	2 8	3 3	3 9	2 4	8	1 8	2	8	8	5	5	5	6	9						
19	1 1	9 7 8 8	3 7	3 5	3 2	3 0	2 6	3 2	8	0 2	2	8	8	2	5	5	6							

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF MAY 1949**

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF																			HEARD ISLAND JUNE 1949									
DAY	HOUR	STATION ELEV. PRESSURE			WIND		DEW POINT	VISIBILITY	LOW CLOUD			CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE							
		LST.	Mbs.	"F	"F	"F			"x10	Kts.	VV	Oklas	W	Oklas	C _L	h	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.				
01	05	9 8 5 7	3 5	3 4	5 4	5 1	0 2	2 0	8	6 1	6	8	6	4														
01	08	9 8 3 0	3 7	3 6	5 4	5 4	1 2	1 8	8	5 1	5	8	6	4														
01	11	9 8 1 9	4 0	3 9	3 8	3 0	2 3	2 4	8	0 2	2	8	7	3														
01	14	9 8 0 1	4 2	4 1	3 9	5 1	3 1	3 2	8	0 2	2	7	7	3														
01	17	9 7 9 9	4 1	4 0	3 9	3 1	3 1	1 2	8	5 0	5	7	7	2														
01	20	9 8 0 3	4 1	4 0	3 9	3 1	3 3	1 2	8	5 0	5	7	7	2														
01	23	9 8 0 1	3 8	3 7	3 6	2 9	2 5	1 0	8	6 1	8	6	6	4														
02	05	9 8 1 5	3 5	3 4	3 1	3 1	2 2	8 0	8	5 0	2	8	8	4														
02	08	9 8 5 0	3 4	3 3	3 1	3 2	2 6	2 4	8	8 5	9	5	8	4														
02	11	9 8 7 1	5 2	5 1	3 0	2 4	2 8	8 1	8	0 2	8	7	5	5														
02	14	9 9 0 1	2 9	2 9	2 9	2 7	1 9	3 2	8	8 6	8	2	4															
02	17	9 9 3 5	2 9	2 8	2 5	2 7	2 7	8 1	3	1 8	3	3	2	5														
02	20	9 9 9 9	2 9	2 8	2 5	2 7	2 7	8 1	3	1 8	3	3	2	5														
02	23	9 9 9 9	2 9	2 6	2 0	2 5	2 1	8 1	2	0 2	1	2	1	4														
03	05	9 9 7 2	3 2	3 2	3 1	3 2	1 5	0 8	8	7 7	7	6	7	2														
03	08	9 9 3 5	3 3	3 2	3 2	3 3	1 5	1 6	8	7 1	7	7	5	3														
03	11	9 9 0 1	3 5	3 3	2 8	2 8	2 0	2 0	8 1	6	0 1	8	5	8														
03	14	9 8 9 1	5 4	5 4	3 1	2 4	2 2	8 0	5	0 2	8	3	2	5														
03	17	9 8 8 3	3 1	3 0	2 8	3 1	1 7	8 1	6	0 2	8	5	4	4														
03	20	9 8 8 0	5 4	5 0	2 2	5 0	1 8	0 6	8	8 6	8	2	4	4														
03	23	9 8 6 6	3 2	3 0	2 5	3 1	1 9	8 1	6	8 6	8	6	2	4														
04	05	9 8 0 7	2 9	2 9	2 7	2 9	0 9	0 6	8	8 6	8	8	2	4														
04	08	9 7 6 7	2 9	2 7	2 2	0 7	0 1	8 1	8	0 2	8	2	7	5														
04	11	9 7 6 8	3 2	3 0	2 5	2 2	1 6	8 0	8	0 2	8	2	0	9														
04	14	9 8 0 4	3 2	3 0	2 6	2 4	3 2	0 1	8	8 6	8	2	5	5														
04	17	9 8 4 4	3 1	3 0	2 8	2 4	2 6	4 8	8	2 6	8	5	2	4														
04	20	9 8 4 7	3 2	3 1	2 9	2 7	0 9	8 0	8	2 6	8	2	7	4														
04	23	9 8 3 9	3 1	3 0	3 0	2 4	1 5	0 2	8	8 6	8	2	4	4														
05	05	9 8 4 2	3 5	3 2	3 1	3 2	1 8	8 1	4	2 7	8	4	2	4														
05	08	9 8 3 5	3 5	3 1	2 6	3 1	1 9	8 0	7	0 2	8	7	8	5														
05	11	9 8 1 1	3 5	3 3	3 2	3 0	1 4	5 6	8	8 8	8	7	2	4														
05	14	9 7 8 5	3 5	3 2	2 9	2 9	0 5	8 1	8	0 2	8	7	5	5														
05	17	9 7 4 1	3 2	3 1	2 9	0 5	6 4	8 2	0 2	8	4	4	4															
05	20	9 6 6 4	3 1	3 1	3 1	0 8	1 7	0 8	8	7 1	7	8	6	3														
05	23	9 5 8 8	3 0	2 9	2 9	1 7	0 4	1 6	8	7 1	7	8	6	3														
06	05	9 5 9 7	3 0	2 8	2 5	2 0	2 9	2 0	7	3 8	8	7	8	5														
06	08	9 5 9 7	3 0	2 7	2 7	2 3	2 4	2 4	8 1	8 3	8	6	5	5														
06	11	9 6 9 3	3 0	2 7	2 0	2 3	2 6	8 2	5	0 1	8	2	6	5														
06	14	9 7 1 7	2 9	2 7	2 1	2 3	2 4	8 2	7	0 1	8	1 6	6	6														
06	17	9 7 5 7	2 7	2 5	1 9	2 1	2 1	2 4	8 1	8 2	7	0 1	2	5														
06	20	9 8 0 2	2 4	2 2	1 8	2 5	3 5	1 0	8	3 6	8	5	5	5														
06	23	9 8 1 5	2 5	2 2	2 0	2 4	3 1	4 0	7	3 6	8	6	2	3														
07	05	9 8 4 0	2 3	2 2	2 1	2 4	3 1	1 2	7	8 5	8	7	2	5														
07	08	9 8 6 3	2 5	2 3	1 7	2 4	3 3	8 0	7	2 6	8	7	2	4														
07	11	9 8 7 4	2 5	2 3	1 6	2 4	3 0	8 1	7	0 1	8	3	9	4														
07	14	9 8 8 6	2 5	2 4	1 8	2 3	2 1	8 2	5	1 5	8	5	3	3														
07	17	9 9 0 3	2 7	2 4	1 5	2 6	1 6	8 1	7	0 3	8	2	7	8														
07	20	9 8 7 9	3 2	3 1	2 9	3 2	0 5	1 6	8	7 1	8	0	9	1														
07	23	9 8 2 6	3 2	3 1	2 9	3 2	0 7	0 6	8	7 1	8	0	8	8														
08	05	9 7 5 3	3 5	3 3	3 0	2 9	2 2	8 1	7	3 6	7	7	5	5														
08	08	9 7 6 3	3 0	3 0	3 0	3 0	3 4	0 8	8	3 6	8	6	2	3														
08	11	9 8 1 4	2 9	2 9	2 9	2 8	3 9	0 8	8	6 6	8	7	3	4														
08	14	9 8 6 8	3 2	2 8	2 0	2 7	2 8	8 1	7	1 8	2	7	4	5														
08	17	9 8 7 9	3 5	3 0	2 4	2 5	1 5	8 1	8	0 1	2	3	7	5														
08	20	9 8 5 7	3 2	3 2	3 0	3 2	1 0	0 5	8	7 1	7	0 1	2	6														
08	23	9 8 0 9	3 4	3 1	2 6	3 0	2 1	8 1	5	0 2	8	5	6	5														
09	05	9 8 5 3	3 7	3 5	3 1	3 0	1 8	7 2	7	2 7	8	0 2	8	5	2													

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF HEARD ISLAND
JUNE 1949**

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	DIRECTION	WIND SPEED *x10	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	LOW CLOUD	MIDDLE CLOUD	HIGH CLOUD	CLOUD DIRECTION	LOW	MIDDLE	HIGH	MAXIMUM TEMPERATURE °F	MINIMUM TEMPERATURE °F	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE				
1	0 5	9 9 1 5	2 5	2 3	2 0	2 4	1 8	8 1	8	1 6	N	0 0	0 2	8	6	2	4	5	5	9	9	9	9							
1	0 8	9 9 0 8	2 8	2 5	1 9	2 9	1 5	8 1	7	1 6	N	0 0	0 2	8	6	6	6	5	5	9	9	9	9							
1	1 4	9 8 2 9	2 8	2 5	2 3	0 8	0 7	8 1	8	7 1	N	0 0	0 2	8	6	6	6	1	9	9	9	9	9							
1	1 7	9 7 5 5	3 0	3 0	0 9	1 0	0 6	8	7 3	7	N	0 0	0 2	8	6	6	6	2	9	9	9	9	9							
1	2 0	9 6 7 4	5 1	3 1	3 1	1 2	2 3	0 2	8	7 5	7	N	0 0	0 2	8	6	6	6	1	9	9	9	9	9						
1	2 3	9 6 5 8	3 4	3 2	3 0	3 6	0 3	4 0	8	7 1	7	N	0 0	0 2	8	6	6	6	2	9	9	9	9	9	3 3	2 4	0 0 0 0	5 4 0	2 7 5 2 0 0 0	
1	0 5	9 6 8 5	2 9	2 9	2 9	2 1	3 7	4	7	8 6	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9							
1	0 8	9 7 4 6	2 8	2 6	2 4	2 0	3 7	0 2	8	3 9	3	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	1 1	9 8 2 1	2 5	2 4	2 1	2 0	2 5	7 2	7	3 8	3	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	1 4	9 8 5 8	2 6	2 4	2 1	1 9	1 7	4 0	7	3 6	3	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	1 7	9 9 0 1	2 7	2 5	2 3	2 1	1 7	8 0	8	2 7	7	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	2 0	9 9 2 4	2 7	2 5	2 1	2 4	2 1	8 1	7	7 0 2	7	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9	3 3	2 4	0 0 0 2	3 2 6	0 1 0	
1	2 3	9 9 2 9	2 8	2 6	2 3	2 2	1 5	8 1	8	8 0 2	7	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	0 5	9 9 1 8	2 6	2 5	2 5	0 0	0 0	0 0	1 6	7 6	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9							
1	0 8	9 9 1 5	2 7	2 7	2 6	0 9	0 4	0 4	8	7 1	7	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	1 1	9 9 1 6	2 9	2 9	2 8	0 9	0 1	8 1	8	7 1	7	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	1 4	9 9 1 9	2 9	2 8	2 7	0 9	0 1	8 1	8	0 2	7	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	1 7	9 9 5 0	2 4	2 2	1 9	0 0	0 0	0 0	8	6 0 2	7	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	2 0	9 9 7 9	2 8	2 7	2 5	1 0	0 1	8 1	7	0 3	1	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9	3 0	2 4	0 0 0 5	4 8 2	0 0 1	
1	2 3	9 9 9 9	2 4	2 4	2 3	0 0	0 0	0 0	8	6 0 3	2	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	0 5	9 9 8 0	2 8	2 8	2 8	0 0	0 0	0 0	8	7 0 2	2	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	0 8	9 9 7 8	3 0	3 0	2 9	0 1	0 3	4 0	8	7 0	7	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	1 1	9 9 4 5	3 2	3 1	3 0	0 3	0 8	0 8	8	7 1	7	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	1 4	9 9 6 5	3 2	3 2	3 0	0 5	0 5	1 3	8	7 1	7	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	1 7	9 8 1 0	3 4	3 3	3 1	0 4	1 6	4 0	8	0 2	2	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	2 0	9 7 1 4	3 5	3 5	3 2	0 8	2 5	0 8	8	7 3	7	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9	3 4	2 5	0 0 0 2	0 5 3	0 7 3 3 0 0 0	
1	2 3	9 6 4 3	3 4	3 4	3 3	3 6	1 3	0 8	8	5 1	7	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	0 5	9 6 2 4	3 3	3 3	3 3	2 9	1 9	0 6	8	7 1	7	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	0 8	9 7 0 4	3 1	3 0	2 9	2 5	0 0	5 0	1 0	8 3 8	3	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	1 1	9 7 6 6	3 1	2 8	2 0	2 5	4 4	8 0	8	1 6	3	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	1 4	9 8 0 0	3 1	2 9	2 4	2 6	3 8	8 1	7	1 6	3	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	1 7	9 8 4 6	2 9	2 6	2 1	3 0	2 6	5 6	7	2 7	8	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	2 0	9 9 8 3	3 0	2 7	2 2	2 8	2 8	8 1	8	0 2	2	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9	3 4	2 7	0 0 1 4	3 1 8	2 5 7 6 0 0 7	
1	2 3	9 9 8 5 1	2 9	2 8	2 6	2 9	2 7	8 0	8	0 0	8	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	0 8	9 9 8 1 7	2 9	2 9	2 8	3 1	1 7	8 0	7	2 7	8	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	1 1	9 9 8 0 1	3 0	2 8	2 5	2 5	1 9	1 6	8 1	8 8	8	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	1 4	9 7 9 5	2 9	2 9	2 5	1 9	3 0	1 5	8 2	7	1 6	8	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9					
1	1 7	9 8 0 1	2 9	2 5	2 5	1 9	2 9	1 9	8 0	7	1 6	8	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9					
1	2 0	9 8 0 1 2	2 7	2 5	2 5	2 9	2 6	0 4	8 1	6 1	6	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	2 3	9 8 1 4	2 9	2 6	2 7	2 9	1 3	3 2	5	2 7	8	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9	3 7	2 5	0 0 0 7	3 8 8	2 8 6 6 0 0 1	
1	0 8	9 8 4 4	2 9	2 6	2 0	3 0	2 4	8 1	6	0 2	8	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	1 1	9 8 5 1	2 9	2 6	2 5	1 9	2 9	1 0	8 1	7	0 2	8	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9					
1	1 4	9 8 5 6 0	2 8	2 6	2 3	3 1	1 5	8 2	7	0 2	8	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	1 7	9 8 5 5 9	2 8	2 6	2 2	3 1	1 8	8 2	7	2 6	8	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	2 0	9 7 9 6	3 0	3 0	3 0	0 7	1 3	0 6	8	7 3	7	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9	3 3	2 4	0 0 0 1	4 4 9	2 9 4 8 0 2 8	
1	2 3	9 7 5 1	3 1	2 9	2 5	2 5	2 8	1 0	0 8	8	3 6	7	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9					
1	0 5	9 7 5 9	3 0	2 9	2 6	3 2	0 9	8 2	7	0 0	2	N	0 0	0 2	8	6	6	6	5	9	9	9	9	9						
1	0 8	9 7 9 6																												

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF JUNE 1949																														
DAY	HOUR	STATION ELEV. PRESSURE	WIND			DEW POINT	DIRECTION	SPEED * x10	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	FASTER WEATHER	LOW CLOUD			CLOUD DIRECTION			PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE							
			DRY BULB °F	WET BULB °F	DEW POINT °F								LOW	MIDDLE	HIGH	LOW	MIDDLE	HIGH			DIRECTION	SPEED Kts.								
22	1	0 5	9 9 6 2	3 4	3 4	3 4	3 0	1 7	0 8	8	7 0	5 5	8 0	6 6	2	9	9	9	9	0										
22	1	0 6	9 9 8 0	3 5	3 5	3 3	2 8	1 8	1 0	8	8 0	0 2	7 1	8 0	6 6	3	5 5	9 9	9 9	9 9	3 5	2 5	0 0 1 1	5 7 1	2 6 4 5 0 0 0					
22	1	0 0 0 2	3 4	3 3	3 1	2 5	1 4	4 0	8	8	8 0	0 2	7 1	8 0	6 6	3	5 5	9 9	9 9	9 9	3 5	2 5	0 0 1 1	5 7 1	2 6 4 5 0 0 0					
22	1	0 0 0 6	5 3	5 2	5 1	2 5	2 1	1 0	8	8	8 0	0 2	7 1	8 0	6 6	3	5 5	9 9	9 9	9 9	3 5	2 5	0 0 1 1	5 7 1	2 6 4 5 0 0 0					
22	1	0 7	9 9 9 8	3 3	3 1	2 9	2 3	2 5	8 0	8	5 0 1	2	5 5	5 5	2	0	0	0	0	0	0	0								
22	2	0 0 0 2	5 2	5 1	2 9	2 7	2 4	1 0	8 0	8	8 0	0 2	7 1	8 0	6 6	3	5 5	9 9	9 9	9 9	3 5	2 5	0 0 1 1	5 7 1	2 6 4 5 0 0 0					
22	2	0 0 5	9 9 9 5	5 2	5 1	2 9	0 0	0 0	0 0	8	8 0	0 2	7 1	8 0	6 6	3	5 5	9 9	9 9	9 9	3 5	2 5	0 0 1 1	5 7 1	2 6 4 5 0 0 0					
22	2	0 0 5	0 0 3 9	2 9	2 9	2 7	0 0	0 0	0 0	8	8 0	0 2	7 1	8 0	6 6	3	5 5	9 9	9 9	9 9	3 5	2 5	0 0 1 1	5 7 1	2 6 4 5 0 0 0					
22	2	0 8	9 9 7 4	3 1	3 1	3 0	0 6	0 5	8 1	7	0 3	1	7	5 5	4	7	0	0	0	0	0	0								
22	2	1 1	0 0 1 0 7	3 0	2 9	2 7	1 0	0 9	0 8	8 1	7	0 2	2	6	5 5	4	7	2	7	9	9	9	3 5	2 5	0 0 1 1	5 7 1	2 6 4 5 0 0 0			
22	2	1 4	0 1 1 0	3 1	3 0	2 8	1 0	0 4	8 3	7	0 2	2	7	6	5 4	7	2	7	9	9	9	9	3 5	2 5	0 0 1 1	5 7 1	2 6 4 5 0 0 0			
22	2	1 7	0 1 2 1	3 1	3 0	2 8	1 0	0 4	8 3	7	0 2	2	7	6	5 4	7	2	7	9	9	9	9	3 5	2 5	0 0 1 1	5 7 1	2 6 4 5 0 0 0			
22	2	2 0	0 1 0 7	3 0	2 9	2 7	3 6	1 0	8 1	7	0 2	2	7	6	5 4	7	2	7	9	9	9	9	3 5	2 5	0 0 1 1	5 7 1	2 6 4 5 0 0 0			
22	2	2 3	0 1 0 0	3 2	3 1	2 8	0 2	0 9	8 8	7	6 5	2	7	6	5 4	7	2	7	9	9	9	9	3 2	2 7	0 0 0 1	3 0 7	2 3 2 1 0 0 2			
22	2	2 5	0 0 6 5	5 4	5 4	5 3	2 9	2 1	1 2	8	8 0	0 2	6	8	6 3	7	1	4	0	5	5	5	0	0	0	0	0	0		
22	2	2 8	0 0 7 7	3 4	3 2	2 9	2 5	3 1	1 5	8 0	8 0	0 2	6	8	6 3	7	1	4	0	5	5	5	0	0	0	0	0	0		
22	2	3 1	0 0 8	3 4	3 3	3 1	2 8	1 4	5 6	7	0 5	2	7	1	4	0	5	5	0	5	5	0	0	0	0	0	0	0		
22	2	3 4	0 0 9 7	3 5	3 3	3 1	2 8	1 5	4 2	8	0 5	2	7	1	4	0	5	5	0	5	5	0	0	0	0	0	0	0		
22	2	3 7	0 0 7 9	3 5	3 3	2 9	3 0	1 5	8 0	8	0 2	2	5	5 4	1	2	1	4	0	5	5	0	0	0	0	0	0	0		
22	2	4 0	0 0 2 6	3 4	3 3	3 2	3 3	3 5	0 4	8 8	7 1	2	7	8	8	6 3	7	1	4	0	5	5	0	0	0	0	0	0	0	
22	2	4 3	0 0 1 0	3 2	3 1	2 9	2 7	3 6	1 0	8 1	7	0 2	2	7	6	5 4	7	2	7	9	9	9	9	3 2	2 7	0 0 0 1	3 0 7	2 3 2 1 0 0 2		
22	2	4 5	0 0 6 5	5 4	5 4	5 3	2 9	2 1	1 2	8	8 0	0 2	6	8	6 3	7	1	4	0	5	5	5	0	0	0	0	0	0	0	
22	2	4 8	0 0 7 7	3 4	3 3	3 2	3 1	2 3	1 6	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0	
22	2	5 1	0 0 8 5	3 4	3 3	3 2	3 1	2 3	1 6	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0	
22	2	5 4	0 0 9 7	3 5	3 3	3 1	2 8	1 4	5 6	7	0 5	2	7	1	4	0	5	5	0	5	5	0	0	0	0	0	0	0	0	
22	2	5 7	0 0 7 6	3 5	3 3	3 1	2 8	1 5	4 2	8	0 5	2	7	2	7	7	4	0	5	5	5	0	0	0	0	0	0	0	0	
22	2	6 0	0 0 2 6	3 4	3 3	3 2	3 2	3 3	0 4	8 8	7 1	2	7	8	8	6 3	7	1	4	0	5	5	5	0	0	0	0	0	0	0
22	2	6 3	0 0 1 0	3 2	3 1	2 8	3 6	1 0	8 1	8	0 2	2	7	7	7	4	0	5	5	5	0	0	0	0	0	0	0	0	0	
22	2	6 6	0 0 6 6	3 3	3 1	2 8	2 6	2 2	2 0	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0
22	2	6 9	0 0 7 6	3 1	2 9	2 7	2 3	2 1	1 8	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0
22	2	7 2	0 0 8 5	3 0	2 8	2 4	2 3	2 1	1 8	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0
22	2	7 5	0 0 8 5	3 1	2 8	2 4	2 2	2 1	1 6	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0
22	2	7 8	0 0 8 5	3 1	2 8	2 4	2 1	1 6	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0	
22	2	8 1	0 0 8 8	2 6	2 4	2 1	2 1	2 0	1 8	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0
22	2	8 4	0 0 8 8	2 6	2 4	2 1	2 0	1 8	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0	
22	2	8 7	0 0 8 8	2 6	2 4	2 1	2 0	1 8	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0	
22	2	9 0	0 0 8 8	2 6	2 4	2 1	2 0	1 8	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0	
22	2	9 3	0 0 8 8	2 6	2 4	2 1	2 0	1 8	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0	
22	2	9 6	0 0 8 8	2 6	2 4	2 1	2 0	1 8	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0	
22	2	9 9	0 0 8 8	2 6	2 4	2 1	2 0	1 8	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0	
22	2	1 0 2	0 0 8 8	2 6	2 4	2 1	2 0	1 8	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0	
22	2	1 3	0 0 8 8	2 6	2 4	2 1	2 0	1 8	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0	
22	2	1 6	0 0 8 8	2 6	2 4	2 1	2 0	1 8	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0	
22	2	1 9	0 0 8 8	2 6	2 4	2 1	2 0	1 8	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0	
22	2	2 2	0 0 8 8	2 6	2 4	2 1	2 0	1 8	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0	
22	2	2 5	0 0 8 8	2 6	2 4	2 1	2 0	1 8	8 0	8	0 2	2	6	8	6 4	7	1	4	0	5	5	5	0	0	0	0	0	0	0	
22	2	2 8	0 0 8 8	2 6	2 4	2 1	2 0	1 8	8 0	8	0 2	2	6	8	6 4	7</														

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

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF JULY 1949																												
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							
							DIRECTION	SPEED						LOW	MIDDLE	HIGH					DIRECTION	LOW	MIDDLE	HIGH				
01	05	9 7 6 7	3 1	3 0	2 8	0 9	1 1	1 6	8	7 1	7	3	7	2	2	2	7	9	9	9	3 2	2 8	0 0 0 1	3 7 9	3 0 4 7 0 0 0			
01	06	9 7 5 1	3 2	3 1	2 9	3 0	1 7	8 0	7	2 2	7	6	5	5	7	2	2	6	6	9	9	9	9	9	9			
01	11	9 7 4 1	3 0	3 0	3 2	1 7	2 0	7	3 6	8	6	2	2	3	1	1	2	6	9	9	9	9	9	9	9			
01	14	9 7 2 5	3 1	3 0	2 7	3 0	2 0	4 8	8	3 6	3	4	2	2	3	1	1	6	9	9	9	9	9	9	9			
01	17	9 7 2 5	3 0	2 8	2 5	3 1	1 7	2 4	5	3 6	3	3	2	2	3	0	0	6	9	9	9	9	9	9	9			
01	20	9 7 1 6	3 1	2 9	2 6	3 2	1 7	8 1	1	0 1	8	1	1	1	4	3	0	6	6	9	9	9	9	9	9			
01	23	9 7 0 6	3 0	2 8	2 5	3 0	1 5	8 1	2	0 2	1	1	6	4	0	0	0	6	6	9	9	9	9	9	9			
02	05	9 7 0 7	3 0	2 8	2 3	2 9	0 7	8 1	1	0 2	1	1	6	4	0	0	0	6	6	9	9	9	9	9	9			
02	06	9 7 1 4	2 2	2 0	1 7	0 0	0 0	8 1	5	0 3	0	5	1	6	0	0	0	8	8	9	9	9	9	9	9			
02	11	9 7 1 2	2 5	2 3	1 8	1 6	0 1	8 3	1	0 1	0	1	1	6	0	0	0	9	9	9	9	9	9	9	9			
02	14	9 7 0 3	3 0	2 8	2 3	0 3	0 2	8 3	7	0 3	1	7	5	5	3	0	0	6	6	9	9	9	9	9	9			
02	17	9 6 8 8	2 7	2 5	2 1	1 1	0 3	8 3	7	0 3	1	7	5	5	3	0	0	6	6	9	9	9	9	9	9			
02	20	9 6 6 1	2 9	2 6	2 0	1 1	1 0	8 3	7	7 0	2	7	6	4	1	0	0	6	6	9	9	9	9	9	9			
02	23	9 6 3 5	2 9	2 7	2 3	1 1	1 1	8 2	2	0 1	1	2	6	4	0	0	0	2	2	2	2	2	2	2	2			
03	05	9 6 5 7	2 3	2 2	2 0	3 1	0 1	8 2	0	0 0	0	0	1	2	4	0	0	0	4	4	9	9	9	9	9	9		
03	08	9 6 7 8	2 1	2 1	1 8	2 0	0 3	8 2	1	0 3	0	1	2	4	0	0	0	4	4	9	9	9	9	9	9			
03	11	9 7 0 3	2 9	2 8	2 3	2 1	1 8	8 0	4	0 2	0	4	5	5	5	5	0	5	5	9	9	9	9	9	9			
03	14	9 7 1 3	3 0	2 8	2 3	2 4	1 8	8 1	7	1 5	8	7	7	5	5	5	0	5	5	9	9	9	9	9	9			
03	17	9 7 2 5	3 0	2 9	2 6	2 3	2 2	8 2	7	0 2	8	7	5	5	5	5	0	5	5	9	9	9	9	9	9			
03	20	9 7 2 0	3 0	2 8	2 4	2 5	2 1	8 1	7	1 5	8	7	7	5	5	5	0	5	5	9	9	9	9	9	9			
03	23	9 7 0 7	2 9	2 9	2 5	2 5	1 6	8 2	8	0 5	8	8	6	2	4	0	0	5	5	9	9	9	9	9	9			
04	05	9 6 8 4	2 8	2 7	2 5	2 2	0 9	8 1	3	0 2	1	3	6	2	0	0	0	6	6	9	9	9	9	9	9			
04	08	9 6 8 1	2 5	2 4	2 2	2 5	0 1	8 2	2	0 2	1	2	6	3	2	0	0	7	7	2	2	2	2	2	2			
04	11	9 6 8 9	2 9	2 8	2 5	0 0	0 0	8 3	2	0 3	1	2	1	4	3	3	0	0	7	7	2	2	2	2	2	2		
04	14	9 6 9 3	2 9	2 7	2 2	0 0	0 0	8 3	3	0 3	2	2	2	4	3	3	0	0	7	7	2	2	2	2	2	2		
04	17	9 7 1 0	2 7	2 5	2 1	2 3	0 6	8 2	6	0 5	2	2	4	2	2	4	0	0	7	7	2	2	2	2	2	2		
04	20	9 7 2 1	2 5	2 3	1 8	1 9	1 2	8 2	7	0 1	2	3	4	1	4	4	0	0	8	8	4	4	4	4	4	4		
04	23	9 7 3 1	2 5	2 3	1 7	1 6	1 5	8 1	7	0 3	2	6	5	5	5	5	0	0	8	8	4	4	4	4	4	4		
05	05	9 7 6 8	2 3	2 2	2 0	1 8	1 4	8 0	6	8 5	1	5	2	4	0	0	0	5	5	9	9	9	9	9	9	9		
05	08	9 7 5 5	2 3	2 1	1 5	2 1	1 5	8 1	4	0 2	1	3	5	2	0	0	0	8	8	4	4	4	4	4	4	4		
05	11	9 7 6 2	2 4	2 2	1 6	2 2	1 8	8 2	8	0 2	2	3	6	5	5	5	0	0	8	8	4	4	4	4	4	4		
05	14	9 7 6 1	2 4	2 2	1 7	2 2	1 6	8 2	7	0 2	2	2	5	5	5	5	0	0	8	8	4	4	4	4	4	4		
05	17	9 7 7 0	2 4	2 2	1 7	2 1	1 7	8 2	5	0 2	1	3	5	5	5	5	0	0	8	8	4	4	4	4	4	4		
05	20	9 7 7 9	2 5	2 2	1 6	2 0	1 5	8 2	3	0 2	1	3	5	5	5	5	0	0	8	8	4	4	4	4	4	4		
05	23	9 7 8 4	2 4	2 3	1 5	2 0	0 7	8 2	5	0 2	2	4	4	4	4	4	0	0	8	8	4	4	4	4	4	4		
06	05	9 7 8 6	2 5	2 3	2 0	2 0	1 4	8 1	5	0 2	5	5	5	5	5	5	0	0	8	8	4	4	4	4	4	4		
06	08	9 8 2 7	2 6	2 4	1 9	2 4	1 0	8 0	7	3 8	7	7	5	5	5	5	3	0	0	8	8	4	4	4	4	4	4	
06	11	9 8 4 1	2 7	2 4	1 8	2 7	2 4	8 1	6	0 2	3	6	5	5	5	5	0	0	8	8	4	4	4	4	4	4		
06	14	9 8 5 1	2 3	2 3	2 2	2 8	0 6	0 8	8	7 1	3	8	5	5	5	5	0	0	8	8	4	4	4	4	4	4		
06	17	9 8 5 7	2 4	2 2	2 1	1 7	2 9	1 4	8 1	4	0 1	2	4	2	4	2	0	0	8	8	4	4	4	4	4	4		
06	20	9 8 6 1	2 4	2 2	1 9	2 9	1 7	4 0	8	8 5	2	8	2	2	3	3	3	0	0	8	8	4	4	4	4	4	4	
06	23	9 8 6 6	2 2	2 0	1 4	2 0	0 7	8 3	3	0 2	1	3	3	3	3	3	0	0	8	8	4	4	4	4	4	4		
07	05	9 9 1 1	2 1	2 0	1 9	2 4	1 8	4 8	7	8 7	3	7	2	2	4	4	4	0	0	8	8	4	4	4	4	4	4	
07	08	9 9 2 6	2 2	2 0	1 4	2 5	2 6	8 0	7	3 6	3	7	2	2	5	5	5	0	0	8	8	4	4	4	4	4	4	
07	11	9 9 3 7	2 3	2 1	1 7	2 4	2 6	8 2	5	0 1	2	6	5	5	5	5	0	0	8	8	4	4	4	4	4	4		
07	14	9 9 4 7	2 2	2 0	1 5	2 5	2 1	8 1	7	2 7	2	7	2	2	5	5	5	0	0	8	8	4	4	4	4	4	4	
07	17	9 9 4 9	2 3	2 1	1 6	2 9	1 0	8 0	7	0 3	2	7	4	5	5	5	7	0	0	8	8	4	4	4	4	4	4	
07	20	9 9 3 6	2 2	2 0	1 7	2 1	0 7	8 2	7	0 3	1	7	5	5	5	5	0	0	8	8	4	4	4	4	4	4	4	
07	23	9 9 1 4	2 2	2 0	1 4	0 9	1 3	8 2	7	0 2	1	7	5	5	5	5	3	0	0	8	8	4	4	4	4	4	4	
08	05	9 9 3 1	1 8	1 6	1 7	1 6	0 8	7 3	9	3	7	5	4	4	4	4	4	0	0	8	8	4	4	4	4	4	4	
08	08	9 9 4 5	2 2	2 0	1 4	1 7	2 6	0 8	8	3 6	7	2	7	4	2	2	2	0	0	8	8	4	4	4	4	4	4	
08	11	9 8 4 5	2 4	2 3	2 0	1 8	2 1	2 6	3 2	7 3	6	3	4	6	5	5	5	0	0	8	8	4	4	4	4	4	4	
08	14	9 8 6 1	2 1	2 0	1 8	2 1	2 6	3 2	7 3	6	3	4	6	5	5	5	5	0	0	8	8	4	4	4	4	4	4	
08	17	9 8 8 7	2 0	1 9	1 5	1 9	1 8	8 0	6	0 1	3	5	5	3	3	3	3	0	0	8	8	4	4	4	4	4	4	
08	20	9 9 1 4	1 8	1 7	1 5	1 9	1 8	8 0	7	8 7	3	7	5	3	3	3	3	0	0	8	8	4	4	4	4	4	4	
08	23	9 9 3 1	1 8	1 6	1 7	1 6	0 8	7 3	9	3	7	5	4	4	4	4	4	0	0	8	8	4	4	4	4	4	4	
09	05	9 9 5 1	2 1	2 0	1 7	2 2	2 8	8 2	7	1 5	3	5	5	4	4	4	4	0	0	8	8	4	4	4	4	4	4	
09	08	9 9 8 5	2 2	2 1	1 7	2 6	0 4	2 2	6 4	8	0 2	2	5	5	5	5	5	1	0	0	8	8	4	4	4	4	4	4
09	11	0 0 0 2	2 4	2 3	1 7	3 1	1 6	8 3	7	0 2	3	7	1	5	5	5												

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF JULY 1949**

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND DIRECTION	WIND SPEED * x10	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									
LST.	Mbs.	"F	"F	"F	"F	Oktas	W	Oktas	C _L	h	G _M	G _H	C _L	C _M	C _H	"F	"F	Points	Miles	DIRECTION	SPEED								
11 05	9 7 5 1	3 5	3 5	2 9	2 7	1 3	B 1	8	0 2	2	8	5	4	1	8	6	6	6	6	9	9	9	9	9	9	9			
11 06	9 7 2 8	3 4	3 5	3 0	2 8	1 0	R 1	8	0 2	2	8	5	4	3	1	5	6	6	6	9	9	9	9	9	9	9			
11 11	9 7 1 3	3 4	3 5	3 0	2 8	1 2	B 0	8	1 6	7	8	8	4	8	6	5	2	8	5	9	9	9	9	9	9	9			
11 14	9 6 8 7	3 2	3 2	3 1	2 8	1 6	R 1	8	8 7	9	7	2	4	3	3	1	5	6	6	6	9	9	9	9	9	9	9		
11 17	9 6 7 9	3 3	3 2	3 0	2 0	0 7	4 0	8	8 8	9	8	2	2	3	3	1	5	6	6	6	9	9	9	9	9	9	9		
11 20	9 6 7 5	3 3	3 2	3 0	2 3	1 3	R 0	8	0 2	2	5	5	4	3	1	5	6	6	6	6	9	9	9	9	9	9	9		
11 23	9 6 6 5	3 2	3 2	3 1	2 3	1 3	B 1	8	0 2	2	8	5	4	8	5	9	9	9	9	9	9	9	9	9	9	9	9		
12 05	9 7 1 3	3 2	3 1	2 0	2 4	2 4		8	7 1	7	8	6	2	3	8	4	9	9	9	9	9	9	9	9	9	9	9		
12 08	9 7 4 9	3 1	3 0	2 8	2 3	2 1	4 0	8	0 2	8	7	2	3	3	8	4	9	9	9	9	9	9	9	9	9	9	9		
12 11	9 7 9 3	2 7	2 6	2 4	2 0	3 8		8	3 6	3	8	8	3	3	8	4	9	9	9	9	9	9	9	9	9	9	9		
12 14	9 8 4 1	2 7	2 7	2 0	2 0	3 2		8	6 7	8	8	2	3	3	8	4	9	9	9	9	9	9	9	9	9	9	9		
12 17	9 9 0 1	2 6	2 5	2 4	2 0	4 0	1 6	8	8 7	8	8	2	2	3	8	4	9	9	9	9	9	9	9	9	9	9	9		
12 20	9 9 5 1	2 5	2 3	1 9	1 9	3 9	8 0	1	0 1	8	1 1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
12 23	0 0 0 5	2 3	2 2	2 0	1 9	3 9	B 2	0	0 1	1	1	6	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13 05	0 0 9 8	2 1	1 9	1 3	1 9	0 5	R 3	1	0 1	1	1	6	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13 08	0 1 1 7	1 8	1 7	1 4	1 7	0 6	0 6	1	0 1	8	3	1	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0		
13 11	0 1 4 2	2 2	2 1	1 7	1 7	0 6	0 6	1	0 2	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13 14	0 1 4 8	2 2	2 1	1 8	0 9	1 1	8 3	1	0 3	1	3	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13 17	0 1 5 1	2 2	2 1	2 0	0 8	1 3	R 1	5	0	3	1	3	5	5	3	0	8	8	8	8	8	8	8	8	8	8	8	8	
13 20	0 1 5 3	2 5	2 2	1 8	0 8	1 1	R 1	3	0	2	1	1	5	5	3	0	7	7	7	7	7	7	7	7	7	7	7	7	
13 23	0 1 4 9	2 5	2 4	2 0	0 5	1 5	R 1	7	0	3	1	7	5	4	1	1	9	9	9	9	9	9	9	9	9	9	9	9	
14 05	0 1 5 0	2 7	2 6	2 5	2 5	0 4	1 4	R 1	8	0 2	2	8	5	5	8	2 5	1 8	0 0 0 0	5 4 0	0 4	2 3	0 4 8							
14 08	0 1 4 4	2 7	2 5	2 5	2 5	0 4	1 4	R 1	8	0 2	2	8	5	5	8	2 5	1 8	0 0 0 0	5 4 0	0 4	2 3	0 4 8							
14 11	0 1 5 3	2 8	2 5	2 1	0 1	1 0	R 1	7	0	2	2	7	5	5	8	2 5	1 8	0 0 0 0	5 4 0	0 4	2 3	0 4 8							
14 14	0 1 4 7	3 0	2 8	2 4	2 0	1 1	R 1	9	0	9	8 1	8	2 6	2	6	2 5	3	7	7	7	7	7	7	7	7	7	7	7	
14 17	0 1 5 2	3 0	2 9	2 6	2 6	3 4	1 3	R 1	6	0 2	2	3	2	4	4	7	7	7	7	7	7	7	7	7	7	7	7	7	
14 20	0 1 5 2	3 1	3 0	2 9	2 8	3 3	1 0	R 1	8	0 2	2	8	8	4	8	7	7	7	7	7	7	7	7	7	7	7	7	7	
14 23	0 1 4 7	3 1	2 9	2 5	2 9	1 1	R 1	7	0	2	2	8	7	8	4	7	7	7	7	7	7	7	7	7	7	7	7	7	
15 05	0 1 2 0	3 3	3 2	3 0	2 9	1 7	R 1	8	0 0	2	2	8	5	4	8	7	7	7	7	7	7	7	7	7	7	7	7	7	
15 08	0 1 0 0	3 3	3 2	3 0	2 9	1 3	R 1	8	0 2	2	2	8	5	4	8	7	7	7	7	7	7	7	7	7	7	7	7	7	
15 11	0 0 5 8	3 4	3 2	3 0	2 9	1 2	R 1	8	2	2	2	8	5	4	8	7	7	7	7	7	7	7	7	7	7	7	7	7	
15 14	0 0 0 9	3 4	3 4	3 3	3 2	3 0	4 0	R 1	1 6	1 6	1 6	2	8	6	2	8	6	2	8	6	2	8	6	2	8	6	2	8	
15 17	9 9 8 2	3 6	3 5	3 2	3 1	2 9	1 1	R 1	6	3	3	6	6	2	8	6	2	8	6	2	8	6	2	8	6	2	8	6	
15 20	9 9 7 1	3 7	3 5	3 2	3 0	5 0	1 8	R 1	8	5 0	5 0	5 0	6	8	6	2	8	6	2	8	6	2	8	6	2	8	6	2	
15 23	9 9 9 0	3 5	3 2	2 7	2 9	2 2	4 8	R 1	7	0	1	2	7	2	3	1	1	9	9	9	9	9	9	9	9	9	9	9	9
16 05	0 0 2 1	3 4	3 3	3 1	2 9	2 1	4 0	R 1	8	0 2	2	8	2	3	1	1	9	9	9	9	9	9	9	9	9	9	9	9	9
16 08	0 0 2 9	3 4	3 2	2 8	2 6	2 6	2 3	R 1	8	0 2	2	8	2	3	1	1	9	9	9	9	9	9	9	9	9	9	9	9	9
16 11	0 0 2 4	3 4	3 2	2 8	2 6	2 6	1 3	R 1	8	0 5	2	2	3	1	3	1	1	9	9	9	9	9	9	9	9	9	9	9	
16 14	0 0 1 1	3 2	3 1	3 0	2 3	0 7	1 6	R 1	8	7 1	2	7	7	2	2	2	7	7	7	7	7	7	7	7	7	7	7	7	
16 17	9 9 9 6	3 1	3 1	3 0	2 8	0 7	2 4	R 1	8	7 0	2	7	7	2	2	2	7	7	7	7	7	7	7	7	7	7	7	7	
16 20	9 9 7 0	3 1	3 1	3 0	0 8	1 1	1 6	R 1	8	7 1	7	8	6	2	2	2	8	6	2	8	6	2	8	6	2	8	6	2	
16 23	9 9 4 6	4 0	3 9	3 7	3 0	1 8	3 2	R 1	8	5 1	5	6	6	2	2	2	8	6	2	8	6	2	8	6	2	8	6	2	
17 05	9 9 1 5	4 0	3 9	3 7	3 1	2 9	1 6	R 1	8	6 1	6	6	6	2	2	2	8	6	2	8	6	2	8	6	2	8	6	2	
17 08	9 9 2 6	3 2	3 1	3 1	2 3	2 6	0 4	R 1	7 3	6	8	6	6	1	1	9	9	9	9	9	9	9	9	9	9	9	9	9	9
17 11	9 9 7 7	3 2	3 1	2 8	2 0	2 2	0 8	R 1	8	3 8	7	8	6	2	2	2	8	6	2	8	6	2	8	6	2	8	6	2	
17 14	0 0 2 2	2 9	2 7	2 3	1 9	2 0	8 1	R 1	8	2 2	7	6	5	5	2	2	2	8	6	2	8	6	2	8	6	2	8	6	
17 17	0 0 5 6	2 9	2 7	2 4	2 0	2 3	8 0	R 1	8	0 2	3	6	5	5	2	2	2	8	6	2	8	6	2	8	6	2	8	6	
17 20	0 0 9 6	2 8	2 5	2 2	1 9	2 2	8 0	R 1	8	0 2	2																		

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF JULY 1949**

DAY	HOUR	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	ANEMOMETER	MAXIMUM GUST		SUNSHINE				
		Mbs.	*F				*F	*x10		Oktas	Ww	W			Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	°F	°F	Points	Miles	*x10	Kts.
21	0 5	9 9 3 4	3 3	3 3	3 3	2 3	2 3	1 2	8	5 0	5	8	6	2	9	9	9	9	9	9	9	9	9	9	9	9	9	0 0 0
21	0 8	9 9 6 6	3 3	3 2	3 1	2 5	2 3	4 8	8	0 2	2	8	6	2	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 0
21	1 1	9 9 9 7	3 2	3 2	3 2	2 2	1 6	1 6	8	1 6	7	8	6	1	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 0
21	1 4	9 9 9 7	3 2	3 2	3 2	2 7	1 6	1 6	8	7 0	7	8	6	1	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 0
21	1 7	0 0 3 2	3 3	3 2	3 0	2 7	2 1	4 4	7	1 8	7	7	8	4	3	3	3	3	3	3	3	3	3	3	3	3	3	0 0 0
21	2 0	0 0 8 8	3 3	3 1	2 8	2 4	3 0	2 0	8	1 8	8	6	2	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0 0
21	2 3	0 1 4 4	3 3	3 2	3 0	2 3	2 1	8 1	7	1 8	2	7	5	4	3	3	3	3	3	3	3	3	3	3	3	3	3	0 0 0
22	0 5	0 2 2 3	3 2	3 1	2 9	2 2	2 9	8 0	3	1 8	2	3	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0 0 0
22	0 8	0 2 6 9	3 1	2 9	2 5	2 2	1 7	8 1	7	0 3	2	2	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 0
22	1 1	0 2 9 1	3 2	2 9	2 2	2 6	1 4	8 1	8	0 3	2	2	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 0
22	1 4	0 2 8 8	3 2	2 9	2 9	2 3	2 9	1 0	8 1	8	0 2	2	2	8	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 0
22	1 7	0 2 8 8	3 2	2 9	2 9	2 2	2 9	0 9	8 1	8	0 2	2	2	8	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 0
22	2 0	0 2 6 8	3 1	2 8	2 4	3 0	2 0	8	1 8	8	6	2	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0 0	
22	2 3	0 2 5 0	3 2	3 0	2 7	3 6	1 2	8 1	8	0 2	2	2	8	6	4	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0
23	0 5	0 1 6 1	3 2	3 2	3 2	0 7	2 0	0 8	8	7 3	7	8	6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
23	0 8	0 1 0 8	3 4	3 4	3 4	0 7	1 8	0 8	8	6 1	6	8	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0 0 0
23	1 1	0 0 4 7	3 6	3 6	5 5	0 7	2 1	1 0	8	5 0	5	8	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0 0 0
23	1 4	9 9 8 2	3 7	3 7	5 6	0 7	1 7	0 8	8	5 1	5	8	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0 0 0
23	1 7	9 9 4 0	3 6	3 6	3 6	0 4	1 0	0 8	8	2 0	5	8	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0 0 0
23	2 0	9 9 0 1	3 6	3 6	3 5	0 4	1 1	0 8	8	5 0	5	8	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0 0 0
23	2 3	9 9 0 7	3 6	3 6	3 1	2 1	1 0	8	5 0	5	8	6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0	
24	0 5	9 9 1 6	3 3	3 2	2 9	2 7	0 3	4 8	7	7 0	2	7	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 0	
24	0 8	9 9 0 2	3 3	3 2	2 9	3 2	0 8	8 0	8	2 0	2	2	8	6	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 0
24	1 1	9 8 8 2	3 3	3 3	3 3	1 4	0 8	1 6	8	2 0	5	8	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0 0 0
24	1 4	9 8 4 9	3 3	3 3	3 2	0 7	1 7	0 8	8	5 1	5	8	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0 0 0
24	1 7	9 8 2 6	3 3	3 2	3 1	2 4	0 3	1 0	8	7 1	7	8	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0 0 0
24	2 0	9 8 1 1	3 0	3 0	2 9	2 1	2 4	1 5	1 4	8 1	7	8	6	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0	
24	2 3	9 7 9 9	2 9	2 8	2 6	1 9	1 6	2 4	8	3 6	3	8	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0 0 0
25	0 5	9 8 2 0	3 1	2 8	2 4	2 7	1 7	1 6	3 3	3 6	8	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0	
25	0 8	9 8 2 5	2 9	2 8	2 6	2 7	1 8	8 0	6	3 6	3	8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0	
25	1 1	9 8 2 7	2 9	2 8	2 6	2 7	1 9	8 1	6	1 5	8	8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0	
25	1 4	9 8 1 6	3 0	3 0	2 7	2 1	2 4	8 1	7	2 7	2	2	6	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0	
25	1 7	9 8 0 7	3 0	2 8	2 2	2 1	2 1	2 1	8 1	7	1 6	2	2	6	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0	
25	2 0	9 7 9 8	3 0	2 8	2 5	2 5	2 5	2 5	8 1	7	1 6	2	2	6	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0	
25	2 3	9 7 7 9	3 0	2 7	2 7	2 1	2 9	1 9	8 1	4	8	7	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	0 0 0
26	0 5	9 7 5 4	2 7	2 5	2 3	2 9	1 3	8 1	7	3 6	8	7	2	4	2	4	2	4	2	4	2	4	2	4	2	4	2	0 0 0
26	0 8	9 7 5 0	2 7	2 5	2 0	2 9	1 8	8 1	8	0 2	2	2	8	6	2	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0
26	1 1	9 7 5 8	2 6	2 6	2 6	2 8	1 8	8 1	8	2 7	8	7	9	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0
26	1 4	9 7 5 6	2 7	2 5	2 1	2 7	2 3	8 1	6	2 7	8	6	9	4	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0	
26	1 7	9 7 7 4	2 5	2 5	2 4	2 7	2 6	7	8 1	6	3 7	8	6	2	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0	
26	2 0	9 7 3 4	2 9	2 7	2 7	2 2	2 5	1 0	8 1	7	0 2	2	7	5	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0	
26	2 3	9 7 3 4	2 9	2 7	2 3	2 8	1 0	8 1	7	0 2	2	7	6	4	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0	
27	0 5	9 7 1 0	2 9	3 0	0 2	0 2	0 8	8 1	7	1 7	8	6	3	4	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0	
28	0 8	9 6 8 8	2 8	2 7	2 6	0 0	0 0	0 0	8 1	7	2 2	7	2	5	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0	
28	1 1	9 6 7 4	3 0	2 9	2 7	2 7	0 9	0 4	8 1	8	7 0	7	7	6	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0	
28	1 4	9 6 7 7	2 6	2 6	2 5	2 3	1 6	0 0	8 1	8	7 2	3	8	8	2	2	2	2	2	2	2	2	2	2	2	2	0 0 0	
28	1 7	9 6 9 8	2 6	2 4	1 9	2 5	1 6	5 6	7	3 6	8	6	2	5	7	7	7	7	7	7	7	7	7	7	7	7	0 0 0	
28	2 0	9 7 3 4	2 5	2 4	2 3	2 0	1 0	8 1	7	0 2	2	7	5	4	4	4	4	4	4	4	4	4	4	4	4	4	0 0 0	
28	2 3	9 7 8 5	2 3	2 3	2 3	2 3	2 1	0 1	8 1	8	3 8	3	8	2														

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF AUGUST 1949**

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF AUGUST 1949**

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	HEIGHT	CLOUD DIRECTION			MAXIMUM AIR TEMPERATURE	MINIMUM AIR TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE											
		Mbs.	"F													C _L	h	C _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.								
11	0 5	9 7 9 7	3 0	2 8	2 5	2 9	1 2	8 1	8	0 2	2	8	5	5	5	1	4	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
11	0 8	9 7 8 1	3 1	3 0	3 1	3 1	1 6	0 8	8	1 7	7	8	6	5	5	5	1	4	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
11	1 1	9 7 4 9	3 2	3 2	3 1	3 2	2 1	0 8	8	5 6	7	8	6	5	5	5	1	4	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
11	1 4	9 7 2 5	3 3	3 2	3 0	2 9	2 1	3 2	8	8 5	8	7	7	6	5	5	1	4	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
11	1 7	9 7 0 8	3 2	3 2	3 1	3 1	2 3	0 6	8	7 1	7	8	6	5	5	5	1	4	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
11	2 0	9 7 1 7	3 1	3 0	2 9	2 2	2 1	8 1	7	0 1	7	7	7	6	5	5	1	4	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
11	2 3	9 7 2 5	3 1	3 0	2 6	2 5	1 2	8 2	6	0 1	2	5	5	4	4	4	3	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
12	0 5	9 7 4 0	3 0	2 9	2 6	2 6	1 7	8 1	7	0 2	3	7	5	4	4	4	3	1	1	5	5	9	9	9	9	9	9	9	9	9	9	9	9	9		
12	0 8	9 7 3 9	2 9	2 9	2 8	2 7	1 4	8 0	7	8 7	3	4	4	4	4	4	3	1	1	5	5	9	9	9	9	9	9	9	9	9	9	9	9	9		
12	1 1	9 7 2 5	2 9	2 8	2 7	3 0	1 4	5 6	7	0 2	2	5	5	4	4	4	3	1	1	5	5	9	9	9	9	9	9	9	9	9	9	9	9	9		
12	1 4	9 7 9 1	3 0	2 8	2 5	2 7	1 0	8 0	8	7 1	7	8	6	5	5	5	4	4	4	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
12	1 7	9 6 4 0	3 1	3 0	2 9	3 3	1 3	0 4	8	7 1	7	8	6	5	5	5	4	4	4	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
12	2 0	9 6 4 4	3 1	3 0	2 8	2 6	1 2	1 2	1	5 6	3	4	4	4	4	4	3	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	2 3	9 6 7 1	3 0	2 6	2 6	2 8	1 1	8 1	4	3 6	3	4	4	4	4	4	3	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	0 5	9 7 0 6	3 2	3 0	2 6	2 8	1 7	8 0	7	1 5	2	7	1	6	5	5	5	4	4	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
13	0 8	9 7 3 1	3 3	3 0	2 4	2 7	2 2	8 0	7	1 0	2	7	2	7	2	7	1	6	5	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
13	1 1	9 7 4 8	3 3	3 1	2 7	2 7	1 9	5 6	7	1 5	2	5	5	4	4	4	3	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	1 4	9 7 4 1	3 3	3 1	2 7	2 7	1 9	5 6	7	0 5	2	6	2	6	2	6	1	6	5	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
13	1 7	9 7 3 6	3 3	3 1	2 8	2 7	3 2	1 7	4 0	8 9	2	7	8	4	4	4	3	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	2 0	9 7 3 5	3 2	3 0	2 7	2 7	3 0	1 7	8 1	1 0	1	1	1	1	1	1	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	2 3	9 7 3 6	3 2	3 0	2 7	2 9	2 1	8 1	5	0 1	2	5	8	4	4	4	3	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	0 5	9 7 1 7	3 1	2 9	2 6	2 6	1 6	8 0	7	3 6	8	7	8	4	4	4	3	4	2	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	0 8	9 6 9 3	3 1	3 0	2 8	2 8	2 2	4 0	7	8 7	8	6	7	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14	1 1	9 6 1 2	3 1	3 1	2 9	2 1	2 1	8 1	7	0 2	2	5	7	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14	1 4	9 7 0 6	3 1	3 1	2 9	2 8	1 6	8 2	7	0 2	2	5	6	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14	1 7	9 7 0 5	3 1	3 1	2 9	2 9	2 0	8 1	7	2 7	8	6	5	4	4	4	3	4	2	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	2 0	9 6 9 9	3 1	3 1	2 9	2 9	2 5	8 1	7	0 2	2	5	5	4	4	4	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
14	2 3	9 7 0 2	2 9	2 8	2 6	2 9	1 7	8 1	7	1 5	8	7	6	5	4	4	4	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
15	0 5	9 7 0 2	2 9	2 8	2 6	2 9	1 7	8 1	8	1 6	8	7	6	5	4	4	4	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
15	0 8	9 6 9 5	2 8	2 7	2 6	3 0	1 0	8 1	7	0 2	2	5	5	4	4	4	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
15	1 1	9 6 7 2	2 8	2 8	2 7	0 3	2 7	0 3	8 1	8	0 2	2	5	5	4	4	4	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
15	1 4	9 6 5 4	2 8	2 9	2 7	2 3	2 0	1 2	8 0	8	8 7	2	2	2	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15	1 7	9 6 6 2	2 8	2 8	2 6	2 5	2 1	8 1	7	0 3	2	5	5	4	4	4	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
15	2 0	9 6 8 2	2 8	2 8	2 6	2 4	2 9	2 5	8 1	7	0 2	2	5	5	4	4	4	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
15	2 3	9 7 0 5	2 6	2 5	2 3	2 2	2 7	1 4	8 0	4	8	7	6	5	4	4	4	1	0	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
16	0 5	9 8 7 9	2 4	2 4	2 3	2 2	2 6	1 6	8 1	6	0 2	2	5	5	4	4	4	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
16	0 8	9 8 7 9	2 4	2 4	2 3	2 2	2 7	1 9	8 1	6	1 5	7	8	7	6	5	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
16	1 1	9 8 7 5	2 4	2 4	2 3	2 2	2 7	1 9	8 1	6	1 5	7	8	7	6	5	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
16	1 4	9 8 5 9	2 4	2 4	2 3	2 2	2 7	1 7	8 0	6	7 0	7	8	7	6	5	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
16	1 7	9 8 4 7	2 4	2 4	2 3	2 2	2 6	1 6	8 0	8	8 5	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
16	2 0	9 8 4 5	2 4	2 4	2 3	2 2	2 6	0 9	1 2</																											

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF AUGUST 1949**

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

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF															HEARD ISLAND SEPTEMBER 1949															
DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	WIND			VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	LOW CLOUD	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE							
					DIRECTION	SPEED	DEW POINT							VV	Oktas	ww	W	Oktas	C _L	h	C _M	C _H	LOW	MIDDLE	HIGH	DIRECTION	Speed			
11	0 5	9 7 8 7	5 0	2 9	2 7	2 1	0 8	8 1	7	0 2	2	7	5	4	7	2	5	9	9	9	9	9	9	9	9	9	9	9		
11	0 8	9 7 6 7	2 7	2 7	2 6	0 0	0 0	8 2	7	0 3	2	8	5	5	4	2	5	5	6	6	6	6	6	6	6	6	6	6		
11	1 1	9 7 5 0	3 2	3 2	3 1	0 4	0 6	4 0	8	7 1	2	8	6	6	3	2	5	9	9	9	9	9	9	9	9	9	9	9		
11	1 4	9 7 3 1	3 2	3 1	3 0	0 7	1 1	1 6	8	7 1	7	8	6	6	3	2	5	9	9	9	9	9	9	9	9	9	9	9		
11	1 7	9 7 2 2	3 4	3 2	2 9	2 9	1 9	3 2	8	7 1	7	8	6	6	2	2	5	9	9	9	9	9	9	9	9	9	9	9		
11	2 0	9 7 0 6	3 5	3 1	2 7	2 9	0 6	4 0	8	7 1	7	8	6	6	2	2	5	9	9	9	9	9	9	9	9	9	9	9		
11	2 3	9 6 8 6	2 9	3 1	3 1	0 0	0 0	1 6	8	7 1	7	8	6	6	2	2	5	9	9	9	9	9	9	9	9	9	9	9		
12	0 5	9 7 2 4	2 4	2 7	2 4	2 7	2 5	4 0	8	3 6	3	5	1	3	2	5	9	9	9	9	9	9	9	9	9	9	9	9		
12	0 8	9 7 3 6	3 0	2 9	2 4	2 9	1 7	8 0	6	8 5	3	6	2	4	2	5	9	9	9	9	9	9	9	9	9	9	9	9		
12	1 1	9 7 2 8	3 1	3 0	2 9	2 9	3 2	8 2	6	0 1	8	2	1	5	0	5	6	6	6	6	6	6	6	6	6	6	6	6		
12	1 4	9 6 9 6	3 2	2 9	2 3	2 9	2 8	8 1	6	0 2	2	4	8	5	3	2	5	6	6	6	6	6	6	6	6	6	6	6		
12	1 7	9 6 9 0	3 2	2 7	2 2	3 0	2 4	8 2	6	2 6	3	2	1	5	0	5	6	6	6	6	6	6	6	6	6	6	6	6		
12	2 0	9 6 9 8	2 8	2 6	2 3	2 9	3 0	8 1	7	2 7	1	7	1	4	2	5	6	6	6	6	6	6	6	6	6	6	6	6		
12	2 3	9 7 2 1	2 6	2 5	2 1	2 8	2 6	8 1	3	2 7	8	3	2	4	0	0	6	6	6	0	0	3 3	2 4	0 0 0 9	2 7 1	2 7	6 5	0 4 3		
13	0 5	9 7 0 8	3 0	2 9	2 7	2 9	3 0	8 1	8	2 5	8	3	2	4	0	0	6	6	6	0	0	3 3	2 6	0 0 0 9	2 7 1	2 7	6 5	0 4 3		
13	0 8	9 7 1 5	3 1	2 9	2 5	2 8	2 4	8 2	7	0 2	9	5	2	4	0	0	6	6	6	0	0	6	6	6	6	6	6	6		
13	1 1	9 7 0 7	3 2	2 8	2 1	3 0	2 2	8 2	7	8 5	8	7	2	2	4	0	0	6	6	6	0	0	6	6	6	6	6	6		
13	1 4	9 6 9 0	3 2	2 9	2 1	3 1	1 3	8 2	7	0 2	2	4	8	5	3	2	5	6	6	6	6	6	6	6	6	6	6	6		
13	1 7	9 6 7 0	3 0	2 8	2 2	3 2	0 4	8 0	8	0 3	2	4	8	5	2	2	5	6	6	6	6	6	6	6	6	6	6	6		
13	2 0	9 6 5 2	2 9	2 7	1 8	1 2	4 0	8	7 7	2	5	2	4	2	2	4	0	0	6	6	6	0	0	6	6	6	6	6		
13	2 3	9 6 5 1	2 6	2 5	2 1	1 9	2 5	8 1	8	1 2	0 1	2	2	6	4	0	0	9	9	9	0	0	3 3	2 6	0 0 0 1	5 7 1	2 9	4 9	0 5 2	
14	0 5	9 6 6 9	2 4	2 5	2 1	2 9	1 6	8 1	7	8 7	2	7	2	4	2	2	5	6	6	6	6	6	6	6	6	6	6	6		
14	0 8	9 6 1 4	2 3	2 0	1 1	2 3	3 1	8 1	7	1 6	8	7	2	2	5	6	6	6	6	6	6	6	6	6	6	6	6	6		
14	1 1	9 6 3 8	2 2	2 0	1 4	1 4	2 2	2 9	8 0	7	2 7	8	7	2	2	5	6	6	6	6	6	6	6	6	6	6	6	6		
14	1 4	9 6 5 7	2 2	1 9	1 1	2 3	2 6	8 1	7	2 6	8	7	2	2	5	6	6	6	6	6	6	6	6	6	6	6	6	6		
14	1 7	9 6 8 9	2 2	2 0	1 5	1 5	2 2	2 3	8 0	7	8 5	8	7	2	2	5	6	6	6	6	6	6	6	6	6	6	6	6		
14	2 0	9 9 1 8	2 2	2 1	1 7	2 2	2 4	8 1	5	0 1	1	4	5	5	4	4	0	0	6	6	6	6	6	6	6	6	6	6		
14	2 3	9 9 3 9	2 2	2 1	1 9	2 1	2 4	8 0	7	8 5	8	7	2	2	5	6	6	6	6	6	6	6	6	6	6	6	6	6		
15	0 5	9 9 6 3	2 2	2 1	1 9	2 2	2 1	4 0	8	8 5	8	8	4	4	4	4	0	0	6	6	6	6	6	6	6	6	6	6		
15	0 8	9 9 5 6	2 3	2 1	1 8	2 0	1 6	6 4	8	7 7	8	8	4	4	5	5	5	6	6	6	6	6	6	6	6	6	6	6		
15	1 1	9 9 6 5	2 5	2 5	1 9	2 1	1 1	8 1	8	8 5	2	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6		
15	1 4	9 9 5 8	2 5	2 3	1 6	2 2	0 9	8 2	8	1 5	2	8	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6		
15	1 7	9 9 4 0	2 5	2 3	1 7	0 0	0 0	8 3	8	1 5	2	8	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6		
15	2 0	9 9 2 0	2 5	2 3	1 7	3 3	0 7	8 0	8	7 7	8	8	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6		
15	2 3	9 8 9 9	2 5	2 3	1 9	0 0	0 0	4 0	8	7 0	7	8	5	4	4	4	0	0	6	6	6	6	6	6	6	6	6	6		
16	0 5	9 8 4 9	2 0	1 9	1 6	0 0	0 0	8 1	8	0 2	2	3	5	4	4	0	0	6	6	6	6	6	6	6	6	6	6	6		
16	0 8	9 8 3 6	2 3	2 3	1 9	1 5	0 7	8 1	8	7 1	7	5	6	3	1	0	0	6	6	6	6	6	6	6	6	6	6	6		
16	1 1	9 8 2 1	2 3	2 3	2 2	2 0	2 4	1 2	7	3 6	3	5	6	3	0	0	6	6	6	6	6	6	6	6	6	6	6	6		
16	1 4	9 8 5 0	2 0	2 0	2 0	3 0	4	9	3	3 7	3	9	2	2	2	2	7	7	7	7	7	7	7	7	7	7	7	7		
16	1 7	9 8 5 9	1 8	1 8	1 7	1 8	2 6	8 0	8	0 2	3	5	4	4	4	4	0	0	6	6	6	6	6	6	6	6	6	6		
16	2 0	9 8 5 7	1 9	1 8	1 5	1 9	1 9	3 2	8 0	3 6	8	4	4	4	4	4	0	0	6	6	6	6	6	6	6	6	6			
16	2 3	9 9 2 2	1 7	1 6	1 2	1 9	2 3	8 1	1	0 2	1	1	5	5	0	0	0	0	6	6	6	6	6	6	6	6	6	6		
17	0 5	9 9 8 9	1 9	1 6	1 9	1 7	8 3	1	0 2	0	1	1	5	5	0	0	0	0	6	6	6	6	6	6	6	6	6	6		
17	0 8	0 0 2 6	1 9	1 8	1 4	1 4	1 4	8 3	3	0 2	0	1	5	5	0	0	0	0	6	6	6	6	6	6	6	6	6	6		
17	1 1	0 0 5 6	2 4	2 2	1 7	2 4	1 1	8 3	3	0 2	0	3	5	5	0	0	0	0	6	6	6	6	6	6	6	6	6	6		
17	1 4	0 0 7 5	2 6	2 4	1 9	2 4	0 4	8 3	7	0 3	1	7	1	5	5	0	0	0	0	6	6	6	6	6	6	6	6	6		
17	1 7	0 0 9 1	2 7	2 5	2 1	2 8	1 4	8 3	6	0 2	2	6	1	5	5	0	0	0	0	6										

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF HEARD ISLAND
SEPTEMBER 1949**

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	DIRECTION	WIND SPEED x10	VISIBILITY	TOTAL CLOUD	LOW CLOUD			CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST	DIRECTION	SUNSHINE				
										PRES. WEATHER	PAST WEATHER	AMOUNT	TYPE	HEIGHT ft.	MIDDLE CLOUD	HIGH CLOUD	MIDDLE CLOUD	HIGH CLOUD	MILES	SPEED x10	KI.	Hours				
21	0 5	9 6 8 1	3 4	3 3	3 2	0 7	0 8	1 2	8	0 2	2	8	6	1	9	9	9	9								
21	0 8	9 6 8 3	3 2	3 2	3 2	0 6	0 6	3 2	8	2 0	4	7	6	2	9	9	9	9								
21	1 1	9 7 0 1	3 2	3 2	3 1	2 4	2 2	1 1	8	7 1	7	8	6	1	9	9	9	9								
21	1 4	9 7 5 2	3 0	2 9	2 7	2 7	2 7	5 1	8	1 8	7	8	5	4	5	6	9	9								
21	1 7	9 8 0 7	2 9	2 8	2 6	2 6	2 7	2 9	6 4	8	8	5	4	5	5	6	9	9								
21	2 0	9 8 5 2	2 9	2 7	2 2	2 2	2 4	1 9	8 0 1	8	0 2	2	8	5	5	5	6	9								
21	2 3	9 8 2 0	3 0	2 9	2 8	3 2	0 2	2 4	8	7 1	7	8	6	4	4	5	6	9	3 4	2 8	0 0 1 4	4 6 4	2 7	6 8		
22	0 5	9 7 7 8	3 5	3 4	3 2	3 1	2 8	8 1	7	0 3	2	7	2	2	4	7	6	9								
22	0 8	9 7 9 3	3 4	3 2	2 8	3 2	2 6	8 1	8	0 3	2	7	2	2	4	7	6	9								
22	1 1	9 8 2 2	3 2	2 9	2 5	2 9	2 1	8 1	4	2 6	2	8	6	4	4	0	6	6								
22	1 4	9 8 6 2	3 2	2 8	1 8	3 2	2 1	8 3	1 8	1 8	1	3	1	5	5	5	6	9								
22	1 7	9 8 8 5	3 1	2 8	2 1	2 9	1 8	8 2	7	1 8	2	7	2	2	4	0	6	9								
22	2 0	9 8 8 9	3 0	2 7	2 1	2 9	1 4	8 2	3 0 1	1 1	2	1	1	5	5	5	6	9								
22	2 3	9 8 9 1	2 9	2 5	1 9	2 9	0 9	8 1	2 2	0 1	1	2	1	1	1	1	1	1								
22	0 5	9 8 3 5	2 9	2 9	2 8	3 6	1 2	0 4	8 6	2 8	2	8	2	2	2	2	2	9	3 5	2 8	0 0 1 1	2 9	5 4			
22	0 8	9 8 3 7	3 2	3 0	2 7	3 6	1 3	8 0	7	0 2	2	7	2	2	4	7	7	9								
22	1 1	9 8 6 1	3 2	3 1	3 1	0 2	0 5	8 1	8	7 7	8	8	6	4	4	0	6	9								
22	1 4	9 8 0 6	2 8	2 7	2 4	2 0	1 0	8 3	6 0 1	1	6	2	2	4	4	0	6	9								
22	1 7	9 8 1 7	3 0	2 8	2 3	2 9	1 3	8 1	4 5	6 0 1	1	3	2	5	5	5	6	9								
22	2 0	9 8 2 1	2 9	2 7	2 2	2 9	1 2	8 1	3 0 3	1 5	6	2	3	1	1	1	1	1								
22	2 3	9 8 2 9	2 8	2 6	2 3	2 9	1 5	8 0	6 5	2 6	2	6	2	4	4	0	6	9	3 2	2 6	0 0 0 3	3 5 5	2 7	2 7	0 2 9	
22	0 5	9 8 3 5	2 8	2 7	2 5	0 4	0 6	8 1	7 2	7 2	6	2	2	4	4	0	6	9								
22	0 8	9 8 3 5	2 9	2 7	2 5	0 2	0 3	8 1	8 0 2	8	3	8	8	4	4	0	6	9								
22	1 1	9 8 2 3	2 9	2 7	2 3	1 2	0 1	8 1	3 0 3	8 0 6	2	3	1	1	1	1	1	1								
22	1 4	9 8 2 6	2 8	2 6	2 2	2 4	1 6	8 1	3 0 1	8 0 7	7	6	1	1	1	1	1	1								
22	1 7	9 8 2 2	2 7	2 4	1 7	2 4	1 6	8 3	6 0 2	2	5	1	1	1	1	1	1	1								
22	2 0	9 8 4 0	2 7	2 5	2 0	2 2	1 8	8 3	3 0 2	1	3	1	1	1	1	1	1	1								
22	2 3	9 8 5 8	2 7	2 6	2 3	2 4	2 4	4 0	7	3 6	3	7	1	1	1	1	1	1								
22	0 5	9 8 2 6	2 8	2 8	2 8	0 7	1 6	0 1	8 1	7 1	7	8	6	0	0	0	0	9	3 0	2 2	0 0 0 3	3 8 6	2 8	3 5	0 2 6	
22	0 8	9 7 7 5	3 3	3 2	3 1	3 1	3 2	2 4	8 3	3 6	7	7	2	4	4	0	6	9								
22	1 1	9 7 8 1	3 2	3 0	2 7	3 0	2 7	3 0	8 1	7 3	8	7	2	5	5	5	6	9								
22	1 4	9 7 8 5	3 2	3 0	2 4	3 0	2 6	8 2	7	3 5	8	7	2	5	5	5	6	9								
22	1 7	9 7 8 5	3 2	3 1	2 9	3 0	1 8	8 1	7 0 1	8 5	5	2	1	1	1	1	1	1								
22	2 0	9 7 9 1	3 1	2 9	2 5	3 0	1 2	8 1	8 0 2	8 4	4	1	1	1	1	1	1	1								
22	2 3	9 7 9 7	3 0	2 9	2 7	3 0	1 3	8 1	6 6	2 7	2	6	2	4	4	0	6	9	3 3	2 5	0 0 0 1	3 4 3	3 0	3 8	0 4 3	
22	0 5	9 8 3 9	3 0	2 9	2 6	2 5	1 6	8 1	5 5	2 0	1	5	2	4	4	0	6	9								
22	0 8	9 8 7 0	3 0	2 8	2 5	2 3	1 6	8 2	5 5	2 6	2	3	1	4	4	0	6	9								
22	1 1	9 8 9 2	3 1	2 8	2 1	2 9	1 5	8 2	7 7	0 2	2	2	3	1	4	4	0	6								
22	1 4	9 9 1 7	3 1	2 9	2 5	2 7	1 4	8 2	8	0 2	2	2	4	1	4	4	0	6								
22	1 7	9 9 5 7	2 9	2 8	2 5	2 1	2 3	8 1	8 0 2	2	2	8	6	4	4	0	6	9								
22	2 0	9 9 9 9	2 7	2 4	2 2	2 2	2 6	8 1	8 0 2	2	2	8	6	4	4	0	6	9								
22	2 3	0 0 2 6	2 7	2 5	2 2	2 5	3 0	4 0	8 3	3 5	8	3	2	5	5	5	0	6	9	3 2	2 4	0 0 0 4	4 0 8	2 5	4 3	0 2 4
22	0 5	0 0 8 1	2 6	2 3	1 5	2 2	2 8	8 2	7	0 2	2	7	5	5	5	7	7	6		3 2	2 4	0 0 0 4	4 0 8	2 5	4 3	0 2 4
22	0 8	0 0 9 4	2 5	2 3	1 6	2 0	2 1	8 3	7 0 2	2	2	7	5	5	5	7	7	6								
22	1 1	0 0 1 0	2 7	2 3	1 5	2 1	2 1	8 3	8 0 2	2	2	7	5	5	5	7	7	6								
22	1 4	0 0 1 0	2 7	2 4	1 7	2 2	2 0	8 3	7 7	0 2	2	2	7	5	5	5	7	7								
22	1 7	0 0 1 2 9	2 6	2 4	2 4	2 1	2 0	1 5	8 0 2	2	2	7	5	5	5	7	7	6								
22	2 0	0 0 1 6 1	2 3	2 1	1 6	1 9	1 4	8 1	8 0 3	1	1	1	5	5	5	5	0	6	9	2 7	2 1	0 0 0 0	5 6 3	2 5	4 5	0 0 0
22	2 3	0 0 1 8 2	2 2	2 0	1 5	1 8	1 1	8 1	8 0 3	1	1	1	5	5	5	5	0	6	9							
22	0 5	0 0 1 8 5	2 6	2 3	1 6	2 8	0 4	8 2	8 0 2	2	2	7	6	3	1	7	9	9	3 4	2 2	0 0 0 0	2 4 8	2 3	3 1	0 0 0	
22	0 8	0 0 2 0 9	2 9	2 7	2 2	3 0	0 3	8 1	8 0 2	2	2	7	5	5	5	7	7	6								
22	1 1	0 0 2 0 3	3 2	3 1	2 7	3 1	0 9	8 0 2	2	2	7	8	5	4	1	6	9	9								
22	1 4	0 0 1 9 8	3 2	3 1	3 0	2 3	0 7	8 1	8 0 2	2	2	7	7	6	4	1	6	9								
22	1 7	0 0 1 7 4	3 3	3 2	3 0	2 5	0 8	1 2	8 1	8 0 1	5 1	5 8	8	2	2	7	6	9								
22	2 0	0 0 1 7 1	3 2	3 2	3 1	2 4	0 6	2 4	8 1	8 0 2	2	2	8	6	2	2	7	6								
22	2 3	0 0 1 5 0	3 2	3 2	3 0	1 4	0 4	4 0	8 1	8 0 2	2	2	8	6	2	2	7	6	</td							

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF OCTOBER 1949**

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF															HEARD ISLAND OCTOBER 1949												
DAY	HOUR	STATION LEVEL PRESSURE			WIND			VISIBILITY	LOW CLOUD			CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	MAXIMUM GUST		SUNSHINE							
		Dry Bulb	Wet Bulb	Dew Point	Direction	Speed	Amount		Type	Height	Middle Cloud	High Cloud	Low	Middle	High	DIRECTION	SPEED	Points	Miles	" x 10	Kts.	Hours					
LST.	Mbs.	"F	"F	"F	" x 10	Kts.	VV	Oklas	W	Oklas	C _L	h	C _M	C _H	"F	"F											
11	0 5	9 7 9 8	2 6	2 5	1 5	2 6	3 6	8 0	8	0 2	8	7	2	5	7	6	4	9	9	9	9	9	9				
11	0 8	9 8 4 1	2 4	2 1	1 1	2 5	3 8	8 1	7	0 1	8	7	2	5	0	6	5	9	9	9	9	9	9				
11	1 1	9 8 8 6	2 3	2 0	1 1	2 5	3 5	8 2	8	8 5	8	8	3	4	0	6	6	0	0	0	0	0	0				
11	1 4	9 9 3 5	2 4	2 1	1 3	2 7	3 1	8 3	4	1 8	1	4	2	5	0	6	6	9	9	9	9	9	9				
11	1 7	9 9 5 1	2 7	2 4	1 6	2 7	2 3	8 1	7	1 8	2	7	2	5	0	6	6	9	9	9	9	9	9				
11	2 0	9 9 7 0	2 9	2 7	2 2	2 9	2 6	8 1	7	0 2	8	7	2	5	0	6	6	9	9	9	9	9	9				
11	2 3	9 9 9 4	3 0	2 7	2 0	2 9	2 3	8 1	5	1 8	5	4	6	0	0	9	0	0	3 1	1 9	0 0 0	7 2 5	2 4	7 9	0 2 4		
12	0 5	0 0 4 9	3 2	3 2	3 0	3 1	2 4	8 1	2 1	8 1	8	1 8	2	8	4	0	6	6	9	9	9	9	9	9			
12	0 8	0 0 5 0	3 2	3 1	2 9	3 1	2 0	8 1	8	5 0	8	2 8	8	6	5	0	6	6	9	9	9	9	9	9			
12	1 1	0 0 3 1	3 0	3 0	2 9	2 9	1 6	8 0	8	7 1	7	8	6	2	0	9	9	9	9	9	9	9	9				
12	1 4	9 9 8 1	3 1	3 1	3 1	0 6	0 5	0 2	9	7 7	7	9	9	0	0	9	9	9	9	9	9	9	9				
12	1 7	9 9 9 0	3 1	3 1	3 1	1 0	1 3	0 2	9	7 3	7	9	0	0	0	9	9	9	9	9	9	9	9				
12	2 0	9 8 4 7	3 3	3 3	3 2	0 0	0 0	1 0	8	7 1	7	8	6	2	0	9	9	9	9	9	9	9	9				
12	2 3	9 8 2 4	3 3	3 3	3 2	2 3	1 0	1 2	8	7 1	6	8	6	2	0	9	9	9	9	9	9	9	9				
13	0 5	9 9 0 7	3 0	2 8	2 0	2 2	2 2	8 1	5	0 2	1	2	6	3	0	1	5	0	0	6	6	6	6				
13	0 8	9 9 3 6	2 9	2 8	2 4	2 1	2 1	8 3	3	0 1	1	3	5	4	3	1	5	0	0	6	6	6	6				
13	1 1	9 9 6 1	3 1	2 9	2 4	2 3	2 1	8 2	8	0 3	8	7	5	5	3	1	5	0	0	6	6	6	6				
13	1 4	9 9 8 8	3 2	2 9	2 4	2 4	1 6	8 3	3	0 1	1	3	1	5	3	1	5	0	0	6	6	6	6				
13	1 7	0 0 0 2	3 1	3 0	2 8	2 5	0 3	8 2	7	0 3	1	7	8	6	3	0	0	6	6	6	6	6	6				
13	2 0	0 0 1 5	3 2	2 9	2 4	2 8	1 3	8 2	8	0 2	2	8	8	5	3	0	0	6	6	6	6	6	6				
13	2 3	0 0 1 5	3 1	2 9	2 6	2 9	0 9	8 2	5	2 6	8	3	2	4	0	0	5	5	0	0	3 2	2 8	0 0 4 9	2 9 6	2 4	3 1	0 6 7
14	0 5	0 0 1 4	3 1	2 9	2 5	2 8	1 4	8 2	8	0 2	2	8	8	5	3	0	0	5	5	9	9	9	9	9			
14	0 8	0 0 1 3	3 1	3 0	2 6	2 0	1 0	8 2	8	0 2	2	7	2	4	3	5	5	0	0	6	6	6	6	6			
14	1 1	0 0 0 6	3 0	3 0	2 6	2 7	0 6	8 2	8	0 2	2	1	1	4	3	6	6	6	6	6	6	6	6	6			
14	1 4	0 0 0 1	3 3	3 0	2 4	2 7	0 7	8 3	7	0 2	2	5	4	4	3	6	6	6	6	6	6	6	6	6			
14	1 7	9 9 9 5	3 1	2 9	2 6	2 5	0 7	8 0	7	5 0	7	7	5	5	3	0	0	5	5	9	9	9	9	9			
14	2 0	0 0 0 3	3 0	2 8	2 4	2 4	1 0	8 2	6	0 2	1	6	8	6	0	0	5	5	0	0	6	6	6	6			
14	2 3	0 0 0 8	3 0	2 8	2 4	2 1	0 7	8 2	6	0 2	8	6	5	5	3	4	2 8	0 0 0 0	3 4 1	2 9	3 3	0 2 2					
15	0 5	0 0 4 4	2 6	2 4	1 9	1 9	0 8	8 3	6	0 2	1	6	5	6	0	0	4	0	0	0	0	0	0	0			
15	0 8	0 0 6 5	2 9	2 8	2 7	2 1	1 7	4 0	5	8 5	1	5	2	5	0	0	5	5	0	0	0	0	0	0			
15	1 1	0 0 8 1	5 0	3 0	2 2	2 1	1 2	8 3	5	0 1	1	3	8	5	0	0	5	5	0	0	0	0	0	0			
15	1 4	0 0 9 5	3 2	2 8	2 3	2 3	0 8	8 3	5	0 2	1	3	8	7	0	0	5	5	0	0	0	0	0	0			
15	1 7	0 1 0 8	3 0	2 5	1 8	2 2	0 6	8 3	7	0 3	1	7	5	5	0	0	7	9	9	9	9	9	9	9			
15	2 0	0 0 1 9	2 9	2 7	2 3	2 0	0 9	8 3	7	0 2	2	7	5	6	0	0	8	9	9	9	9	9	9	9			
15	2 3	0 1 3 1	2 9	2 7	2 3	2 4	0 2	8 3	8	0 2	2	8	5	5	0	0	9	9	9	3 1	2 3	0 0 0 0	1 6 9	2 3	2 7	0 9 1	
16	0 5	0 1 2 6	2 8	2 7	2 4	0 0	0 0	8 3	8	0 2	2	8	5	6	0	0	2	9	9	9	9	9	9	9			
16	0 8	0 1 2 6	3 0	2 7	2 0	1 1	0 6	8 3	8	0 2	2	8	5	6	0	0	8	9	9	9	9	9	9	9			
16	1 1	0 1 2 6	3 0	2 8	2 3	0 9	1 2	8 2	8	0 2	2	8	5	6	0	0	8	9	9	9	9	9	9	9			
16	1 4	0 1 2 5	3 1	2 8	2 2	0 8	0 8	8 3	7	0 2	2	7	8	6	0	0	8	9	9	9	9	9	9	9			
16	1 7	0 1 2 1	3 0	2 9	2 6	0 8	0 9	8 2	8	0 2	2	8	8	5	0	0	1	9	9	9	9	9	9	9			
16	2 0	0 1 2 2	3 0	2 8	2 5	0 4	0 4	8 2	8	0 2	2	7	8	5	0	0	8	9	9	9	9	9	9	9			
16	2 3	0 1 2 0	3 0	2 7	2 0	0 6	0 7	8 2	7	0 2	2	7	5	6	0	0	8	9	9	3 2	2 8	0 0 0 0	1 7 7	0 8	1 6	0 0 0	
17	0 5	0 1 1 1	2 8	2 6	2 1	0 5	0 2	8 3	8	0 2	2	8	5	6	0	0	8	9	9	9	9	9	9	9			
17	0 8	0 1 1 9	3 0	2 7	2 0	0 0	0 0	8 2	8	0 2	2	8	5	6	0	0	8	9	9	9	9	9	9	9			
17	1 1	0 1 1 6	3 0	3 0	2 5	0 8	0 4	8 2	7	0 2	2	7	5	6	0	0	8	9	9	9	9	9	9	9			
17	1 4	0 1 1 1	3 4	3 0	2 3	0 7	0 1	8 3	7	0 2	2	7	5	6	0	0	7	9	9	9	9	9	9	9			
17	1 7	0 1 1 0	3 4	3 0	2 3	0 0	0 0	8 3	6	0 1	1	1	5	6	0	0	6	0	0	0	0	0	0	0			
17	2 0	0 1 1 8	2 9	2 5	2 1	0 0	0 0	8 3	5	0 1	1	1	5	6	0	0	3 4	2 7	0 0 0 0	1 5 5	3 4	1 3	0 3 4				
17	2 3	0 1 1 8	3 4	3 0	2 8	3 4	0 6	8 2	5	0 2	1	3	5	6	0	0	2	9	9	9	9	9	9	9			
18	0 5	0 1 2 4	3 2	3 0	2 7	0 1	0 7	8 2	7	0 2	2	7	1	4	3	0	8	9	9	9	9	9	9	9			
18	0 8	0 1 2 8	3 2	3 0	2 6	0 3	1 0	8 3	1	0 1	1	1	1	4	0	0	8	8	0	0	0	0	0	0			
18	1 1	0 1 2 5	3 3	3 2	2 8	0 5	1 6	8 3	1	0 1	1	1	1	4	0	0	8	8	0	0	0	0	0	0			
18	1 4	0 1 2 1	3 5	3 3	3 0	0 7	1 5	8 3	3	0 2	1	3	5	5	0	0	8	8	0	0	0	0	0	0			
18	1 7	0 1 0 8	3 4	3 3	3 1	0 8	1 3	8 3	6	0 2	1	6	5	4	3	0	8	9	9	9	9	9	9	9			
18	2 0	0 0 9 7	3 3	3 3	3 2	0 8	2 1	8 3	7	0 2	2	7	6	4	3	0	8	9	9								

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF OCTOBER 1949**

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

**HEARD ISLAND
NOVEMBER 1949**

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

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF NOVEMBER 1949																							
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	
		LST.	Mbs.				"F	"F		Oktas	ww	W	Oktas	C _L	h	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.
11	0 5	9 9 5 2	3 1	2 9	2 4	2 1	2 1	8 2	7	0 2	2	6	5	5	3	5	7	9	9	9	9	9	0
11	0 8	9 9 7 2	3 1	2 9	2 3	1 9	2 3	8 1	8	0 3	2	7	5	5	1	4	6	9	9	9	9	9	0
11	1 1	9 9 8 9	3 5	3 0	2 4	1 9	2 7	8 1	8	0 2	2	4	5	5	3	0	7	9	9	9	9	9	0
11	1 4	9 9 9 3	3 5	2 9	2 0	1 7	1 5	8 3	8	0 1	0	2	5	5	0	0	2	5	5	5	5	0	
11	1 7	0 0 0 6	3 2	2 8	2 4	0 2	1 0	8 1	8	0 3	2	1	5	6	1	1	5	6	0	0	0	0	
11	2 0	0 0 0 9	3 0	2 7	1 9	0 0	0 0	8 3	8	0 2	2	1	5	6	0	0	9	9	9	9	9	9	
11	2 3	0 0 0 5	2 9	2 6	2 0	0 0	0 0	8 3	7	0 3	2	0	0	9	7	0	0	9	9	9	9	9	
12	0 5	9 9 8 1	3 0	2 7	2 0	2 7	1 8	8 3	8	0 3	2	5	5	5	3	2	5	9	9	9	9	9	
12	0 8	9 9 9 4	3 0	2 7	2 1	3 2	1 7	8 2	8	0 2	2	2	5	5	0	0	8	7	0	0	0	0	
12	1 1	9 9 8 7	3 1	2 8	2 0	0 0	0 0	8 2	7	0 2	2	1	5	5	0	0	8	9	0	0	0	0	
12	1 4	9 9 9 6	3 3	2 9	2 0	0 9	0 4	8 2	7	0 2	2	5	5	5	0	0	8	9	0	0	0	0	
12	1 7	0 0 1 8	3 2	3 0	2 6	2 0	2 1	8 2	6	1 6	2	6	5	5	5	4	4	9	9	9	9	9	
12	2 0	0 0 3 4	2 9	2 6	2 1	2 0	1 8	8 2	7	0 2	2	7	6	5	5	0	0	4	0	0	0	0	
12	2 3	0 0 3 2	2 8	2 5	2 0	0 0	0 0	8 2	2	0 3	1	2	5	5	0	0	0	4	0	0	0	0	
13	0 5	0 0 5 9	2 7	2 5	2 0	0 0	0 0	8 2	8	0 2	2	8	5	5	0	0	9	9	9	9	9	9	
13	0 8	0 0 4 6	2 9	2 5	2 1	0 7	2 1	8 2	8	0 2	2	8	5	5	7	7	9	9	9	9	9	9	
13	1 1	0 0 2 8	3 0	2 8	2 4	1 4	2 1	8 2	8	0 2	2	7	5	5	7	7	9	9	9	9	9	9	
13	1 4	0 0 1 3	3 1	3 0	2 9	0 7	1 7	1 0	8	7	7	8	6	2	9	9	9	9	9	9	9	9	
13	1 7	9 9 9 3	3 2	3 0	2 5	0 5	0 8	1 0	8	7	7	8	6	2	9	9	9	9	9	9	9	9	
13	2 0	9 9 7 7	3 4	3 2	2 9	2 5	2 6	8 2	7	0 1	5	5	5	4	0	2	4	0	0	0	0	0	
13	2 3	9 9 8 0	3 3	3 2	3 0	2 5	1 5	8 2	8	0 2	2	8	6	4	2	9	9	9	9	9	9	9	
14	0 5	9 9 1 5	3 2	3 1	2 9	3 5	1 0	8 2	8	0 1	2	6	6	3	2	1	1	9	9	9	9	9	
14	0 8	9 8 8 1	3 1	3 0	2 8	0 8	2 5	8 3	8	7	7	8	6	2	9	9	9	9	9	9	9	9	
14	1 1	9 7 3 6	3 0	3 0	2 9	0 9	1 4	0 6	8	7	7	8	6	2	9	9	9	9	9	9	9	9	
14	1 4	9 6 3 1	3 0	3 0	2 9	2 6	1 7	0 8	8	7	7	8	6	2	9	9	9	9	9	9	9	9	
14	1 7	9 6 3 7	2 9	2 9	2 9	2 3	3 1	7	9	3	9	5	5	4	0	2	4	0	0	0	0	0	
14	2 0	9 6 8 3	2 8	2 8	2 7	2 7	2 6	5 2	7	8	5	3	7	2	5	5	9	9	9	9	9	9	
14	2 3	9 7 0 6	3 0	2 8	2 4	2 7	2 3	4 8	7	0 2	2	7	2	3	3	4	9	9	9	9	9	9	
15	0 5	9 7 5 9	3 0	2 9	2 7	2 9	2 4	8 1	7	0 2	2	7	2	3	4	8	6	6	6	6	6	6	
15	0 8	9 7 3 5	3 1	2 9	2 5	3 0	2 2	8 1	7	0 2	2	7	2	4	4	4	9	9	9	9	9	9	
15	1 1	9 7 3 3	3 4	3 1	2 5	2 9	1 9	8 1	7	0 2	2	7	2	4	3	3	6	6	6	6	6	6	
15	1 4	9 7 3 3	3 4	3 2	2 8	2 5	2 0	8 3	6	0 2	2	6	2	4	3	3	6	6	6	6	6	6	
15	1 7	9 7 4 1	3 2	3 2	3 1	2 3	2 0	8 3	5	0 1	7	1	1	3	1	1	6	6	6	6	6	6	
15	2 0	9 7 6 9	3 2	3 0	2 6	2 1	3 0	8 3	7	1 6	1	7	2	4	3	3	5	6	6	6	6	6	
15	2 3	9 8 0 7	3 1	3 0	2 8	2 7	2 3	4 8	7	0 2	2	7	2	3	4	4	9	9	9	9	9	9	
16	0 5	9 8 6 5	3 1	2 9	2 5	2 5	2 3	8 2	8	0 2	2	8	6	5	5	7	6	6	6	6	6	6	
16	0 8	9 8 7 7	3 2	2 9	2 4	2 3	3 8	8 2	8	0 2	2	8	5	5	5	3	5	6	6	6	6	6	
16	1 1	9 8 8 7	3 2	3 0	2 7	2 7	2 9	8 2	8	0 2	2	8	5	5	4	4	6	6	6	6	6	6	
16	1 4	9 8 9 5	3 2	3 0	2 6	2 6	2 8	3 1	8 2	8	0 2	2	8	8	4	3	5	6	6	6	6	6	
16	1 7	9 8 8 4	3 2	2 9	2 3	2 8	2 3	8 2	8	0 2	2	8	6	5	5	2	6	6	6	6	6	6	
16	2 0	9 8 7 5	3 1	2 9	2 5	1 6	8 0	8	0 2	2	8	7	8	4	4	5	6	6	6	6	6	6	
16	2 3	9 8 5 0	3 2	3 0	2 6	3 6	1 9	8 0	8	0 2	2	8	6	4	4	4	5	6	6	6	6	6	
17	0 5	9 7 4 7	3 0	2 9	2 8	0 9	2 4	0 0	9	3	9	3	9	9	9	9	3 4	2 9	0 0 0 1	3 8 2	2 9	5 9	0 0 9
17	0 8	9 5 9 2	3 3	3 2	3 0	1 1	4 2	0 0	9	3	9	3	9	9	9	9	3 5	2 7	0 0 0 8	4 5 7	2 8	4 4	0 8 9
17	1 1	9 5 1 5	3 3	3 2	3 0	1 0	2 9	5 6	0 0	9	3	9	9	9	9	9	9	9	9	9	9	9	
17	1 4	9 4 7 6	3 4	3 4	3 4	0 9	2 4	5 6	4 4	0 2	8	6	6	2	9	9	9	9	9	9	9	9	
17	1 7	9 4 4 0	3 4	3 3	3 2	0 9	1 9	0 8	8	4 4	4	8	6	2	9	9	9	9	9	9	9	9	
17	2 0	9 4 2 9	3 5	3 3	3 2	0 0	0 0	0 8	8	7	1	7	8	6	2	9	9	9	9	9	9	9	
17	2 3	9 4 2 6	3 2	3 2	3 2	0 0	0 0	0 2	8	7	1	7	8	6	1	9	9	9	9	9	9	9	
18	0 5	9 4 6 5	3 2	3 1	3 0	2 2	2 2	7	9	3	9	3	9	9	9	9	3 5	2 9	0 0 0 1	4 0 9	1 0	6 5	0 0 0
18	0 8	9 5 0 6	3 1	3 0	2 8	2 4	3 6	1 0	8 3	3 6	3 8	8	6	3	9	9	9	9	9	9	9	9	
18	1 1	9 5 2 3	3 1	3 0	3 0	2 4	5 0	1 2	8 0	3 6	3 8	8	6	3	9	9	9	9	9	9	9	9	
18	1 4	9 5 8 0	3 0	2 9	2 8	2 7	4 4	0 8	8	7	1	7	8	7	2	9	9	9	9	9	9	9	
18	1 7	9 6 1 0	3 0	2 8	2 4	2 5	4 2	4 2	8 0	8 3	6	7	8	7	2	9	9	9	9	9	9	9	
18	2 0	9 6 4 2	3 1	2 9	2 6	2 5	3 6	4 2	8 0	8 7	6	7	8	7	4	9	9	9	9	9	9	9	
18	2 3	9 6 6 3	3 2	3 0	2 7	2 7	3 3	4 8	8 0	8 1	1 8	3	8	7	5	4	9	9	9	9	9	9	
19	0 5	9 5 9 2	3 1	2 9	2 4	2 9	4 0	8 1	8	0 2	2	7	6	4	4	5	5	9	9	9	9	9	
19	0 8	9 7 0 7	3 1	2 8	2 3	3 5	2 4	8 1	7	0 2	2	7	6	5	3	2	6	9	9	9	9	9	
19	1 1	9 7 2 5	3 1	3 0	2 8	2 9	3 0	8 0	8	5 6	8	7	6	5	4	2	6	9	9	9	9	9</td	

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF NOVEMBER 1949**

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 DIRECTION	MAXIMUM GUST	SUNSHINE				
						DIRECTION	SPEED								LOW CLOUD	MIDDLE CLOUD	HIGH CLOUD	LOW	MIDDLE	HIGH							
LST.	Mbs.	"F	"F	"F	"x10	Kts.	VV	Oktas	W	Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.	Hours			
21	0 5	9 9 6 9	3 0	2 9	2 7	2 5	1 4	8 2	8	0 2	2	8	5	4	7	6	9	9	9								
21	0 8	9 9 6 6	3 3	3 1	2 7	2 3	2 0	8 3	7	0 1	2	7	5	4	7	6	9	9	9								
21	1 1	9 9 6 9	3 4	3 2	2 8	0 1	1 3	8 3	7	0 2	2	5	5	4	7	8	9	9	9								
21	1 4	9 9 6 1	3 5	3 4	3 2	0 4	0 4	8 2	8	0 2	2	7	2	2	7	7	9	9	9								
21	1 7	9 9 4 8	3 3	3 3	3 2	0 1	1 3	4 0	8	7	1	7	7	2	1	1	7	9	9								
21	2 0	9 9 3 1	3 3	3 2	5 0	0 7	1 7	8 1	8	0 2	2	5	6	3	7	1	9	9	9	3 6	3 0	0 0 0 0	4 9 8	2 4	3 7	0 1 5	
21	2 3	9 9 1 5	3 3	3 2	3 0	0 7	2 3	8 0	8	7	0	2	8	5	4	8	9	9	9	9							
22	0 5	9 8 4 9	3 3	3 3	5 3	0 9	3 0	0 8	8	7	1	7	8	6	2	7	7	9	9	9							
22	0 8	9 8 3 8	3 4	3 3	5 6	1 9	8 0	8	8	2 2	2	7	5	3	7	7	9	9	9								
22	1 1	9 8 4 3	3 5	3 2	2 7	3 3	2 1	8 0	8	0 2	2	5	8	5	5	7	6	9	9								
22	1 4	9 8 3 3	5 5	5 3	3 0	3 4	1 4	8 3	5	0 1	2	5	2	5	4	0	6	5	5	0							
22	1 7	9 8 1 0	3 4	3 3	3 2	0 6	1 7	8 2	8	0 3	2	1	1	4	1	8	7	9	9	9							
22	2 0	9 7 6 8	3 1	3 1	1 0	0 8	2 6	0 8	8	7	1	7	8	6	1	8	9	9	9	9							
22	2 3	9 7 0 9	3 1	3 1	3 0	1 0	2 5	0 4	8	7	1	7	8	6	1	3	3 5	3 0	0 0 1 8	2 1 5	1 2	5 4	0 1 2				
23	0 5	9 6 9 5	3 3	3 2	3 0	2 5	2 1	8 2	7	0 3	2	6	1	1	3	4	9	9	9	9							
23	0 8	9 6 1 8	3 2	3 1	3 0	2 5	4 4	8	7	1	7	8	6	1	3	9	9	9	9	9							
23	1 1	9 6 6 4	3 0	3 0	2 9	2 7	3 9	8 2	8	0 1	2	5	8	7	1	8	6	1	1	1							
23	1 4	9 6 7 4	3 2	3 1	2 9	3 1	3 4	8 0	8	7	1	7	8	6	1	3	6	9	9	9							
23	1 7	9 6 6 1	3 1	3 1	3 1	2 5	1 7	8 0	8	7	1	7	8	6	1	4	9	9	9	9							
23	2 0	9 6 7 2	3 1	3 0	2 8	2 4	2 4	8 0	8	7	0	2	6	1	2	9	9	9	9	9							
23	2 3	9 6 8 4	3 1	3 0	2 8	2 9	2 8	8 0	8	0 2	7	8	6	1	2	9	9	9	9	9							
24	0 5	9 7 0 0	3 1	3 1	3 0	2 8	4 0	0 2	9	3 7	7	9	9	9	9	9	9	9	9	9							
24	0 8	9 7 2 2	3 1	3 1	3 0	2 8	3 6	0 2	8	7	1	7	8	6	1	1	9	9	9	9							
24	1 1	9 7 4 4	3 2	3 1	2 9	2 8	3 0	0 1	8	3 7	7	8	6	1	1	9	9	9	9	9							
24	1 4	9 7 7 6	3 1	3 1	3 0	2 6	2 6	3 9	0 2	8	7	1	7	8	6	1	6	9	9	9							
24	1 7	9 8 0 4	3 0	3 0	2 9	2 6	4 7	0 5	8	7	1	7	8	6	1	3	9	9	9	9							
24	2 0	9 8 2 9	3 0	2 9	2 7	2 5	4 6	8 1	8	0 2	7	8	6	1	4	5	9	9	9	9							
24	2 3	9 8 6 5	3 1	3 0	2 8	2 9	2 8	8 1	8	0 2	2	8	5	4	4	9	9	9	9	9							
25	0 5	9 8 9 1	3 2	3 1	3 0	0 0	0 0	2 0	8	7	0	2	8	6	1	2	9	9	9	9							
25	0 8	9 8 8 4	3 3	3 3	3 2	0 7	1 8	1 6	8	7	7	7	8	6	1	2	9	9	9	9							
25	1 1	9 8 7 0	3 3	3 3	3 2	0 7	2 3	1 2	8	7	1	7	8	6	1	5	7	9	9	9							
25	1 4	9 8 5 6	3 5	3 4	3 2	3 3	2 7	8 0	8	0 2	2	2	5	7	4	5	7	9	9	9							
25	1 7	9 8 6 4	3 5	3 2	2 7	2 9	3 2	8 1	7	0 2	2	2	7	2	4	5	6	9	9	9							
25	2 0	9 8 6 9	3 4	3 2	2 6	3 2	1 7	8 1	8	0 2	2	8	2	4	4	7	7	9	9	9							
25	2 3	9 8 6 3	3 4	3 3	3 1	3 0	1 9	8 1	8	0 2	2	8	2	2	4	4	9	9	9	9							
25	0 5	9 8 6 1	3 3	3 1	3 0	2 8	2 9	2 8	8 1	7	0 2	2	7	2	4	4	9	9	9	9							
25	0 8	9 8 6 2	3 4	3 2	2 8	3 0	3 0	8 2	8	0 2	2	7	2	6	2	4	4	9	9	9							
25	1 1	9 8 5 9	3 5	3 2	2 7	3 0	2 2	8 2	8	0 2	2	7	2	4	4	9	9	9	9	9							
25	1 4	9 8 5 9	3 5	3 3	3 2	2 9	3 2	1 6	8 2	8	0 2	2	5	5	4	0	8	6	9	9							
25	1 7	9 7 9 7	3 5	3 2	2 9	0 4	1 4	8 2	8	0 3	2	5	6	4	2	8	8	9	9	9							
25	2 0	9 7 3 1	3 1	3 0	2 7	1 6	1 3	4 8	8	0 2	7	7	6	4	2	9	9	9	9	9							
25	2 3	9 6 8 5	3 1	3 1	3 0	2 2	1 5	4 0	8	0 2	7	7	6	4	2	9	9	9	9	9							
27	0 5	9 6 1 7	3 1	3 0	2 7	0 0	0 0	2 0	8	0 2	7	7	6	5	3	7	9	9	9	9							
27	0 8	9 6 4 0	3 1	3 0	5 0	2 1	4 0	0 1	9	3 7	3	9	9	9	9	9	9	9	9	9							
27	1 1	9 6 8 7	3 1	3 0	2 9	2 2	3 0	1 0	8	3 6	3	8	6	5	3	7	9	9	9	9							
27	1 4	9 7 2 8	3 1	3 0	2 7	2 4	3 5	4 0	8	0 2	2	2	7	7	4	3	7	9	9	9							
27	1 7	9 7 6 0	3 1	3 1	3 1	2 4	2 7	4 8	8	0 2	2	8	8	8	4	3	7	9	9	9							
27	2 0	9 7 9 1	3 2	3 0	2 6	2 5	2 6	8 1	8	0 1	2	7	7	2	4	3	7	9	9	9							
27	2 3	9 8 1 2	3 2	3 2	2 9	2 4	2 7	2 4	8 1	8	0 1	2	8	4	4	3	7	9	9	9							
28	0 5	9 8 4 5	3 2	3 0	2 6	2 6	1 9	8 1	8	0 2	5	5	5	7	2	4	3	5	5	9							
28	0 8	9 8 6 1	3 2	3 1	2 8	3 0	2 0	8 0	8	0 2	7	7	2	2	4	4	8	5	5	9							
28	1 1	9 8 7 5	3 5	3 1	2 7	2 6	1 6	8 1	7	2 2	6	2	2	4	4	4	8	5	5	9							
28	1 4	9 8 8 3	3 4	3 2	2 8	2 8	1 5	8 3	7	0 2	8	7	2	2	4	4	8	5	5	9							
28	1 7																										

**RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF DECEMBER 1949**

RESULTS OF SURFACE OBSERVATIONS AT												HEARD ISLAND DECEMBER 1949																	
FOR THE MONTH OF																													
DAY	HOUR	STATION LEVEL PRESSURE		WIND DRY BULB		WET BULB		DEW POINT		VISIBILITY		LOW CLOUD		CLOUD DIRECTION		MAXIMUM TEMPERATURE		MINIMUM TEMPERATURE		PRECIPITATION		ANEMOMETER		MAXIMUM GUST					
		LST.	Mbs.	"F	"F	"F	"F	"x10	Kts.	VV	Oktas	Present Weather	Past Weather	Cloud Type	Height	Low	Middle	High	Low	Max Temp	Min Temp	Points	Miles	"x10	Kts.	Hours			
01	05	01001	3.2	5.2	3.1	3.5	3.5	0.5	13	R	8	02	2	5	5	4	7	8	8	9.9	9.9	-	-	0.8	4.4	0.00			
01	08	0077	3.5	3.1	2.6	0.5	1.5	1.5	8.0	R	8	02	2	5	5	4	7	8	8	9.9	9.9	-	-	-	-	-			
01	11	0058	3.4	3.3	3.1	0.7	1.9	1.9	8.0	R	8	02	2	5	5	4	7	8	8	9.9	9.9	-	-	-	-	-			
01	14	9988	3.5	3.3	3.1	0.7	2.2	2.2	8.0	R	8	7	2	5	6	4	7	8	8	9.9	9.9	-	-	-	-	-			
01	17	9918	3.3	3.3	3.2	0.8	2.6	2.6	8.0	R	8	7	3	7	6	1	6	7	8	9.9	9.9	-	-	-	-	-			
01	20	9881	3.7	3.5	3.5	3.2	0.8	0.8	5.6	R	8	20	6	5	7	2	3	3	8	9.9	9.9	-	-	-	-	-			
01	23	9871	3.5	3.4	3.3	3.2	1.4	1.4	8.2	R	7	02	2	7	2	4	5	4	7	8	9.9	9.9	3.7	3.1	0.000	281	0.8	4.4	0.00
02	05	9837	3.5	3.5	3.5	3.2	1.5	1.5	4.0	R	8	50	2	8	5	4	7	8	8	9.9	9.9	-	-	-	-	-			
02	08	9820	3.5	3.4	3.1	3.2	1.6	1.6	4.0	R	8	60	8	8	6	3	4	7	8	9.9	9.9	-	-	-	-	-			
02	11	9810	3.5	3.4	3.2	1.5	2.0	2.4	4.0	R	8	51	5	5	6	3	4	7	8	9.9	9.9	-	-	-	-	-			
02	14	9792	3.5	3.5	3.4	3.1	2.3	2.4	4.0	R	8	71	5	8	6	3	4	7	8	9.9	9.9	-	-	-	-	-			
02	17	9787	3.5	3.5	3.0	3.1	3.3	2.4	4.0	R	8	50	5	7	7	3	2	2	3	8	9.9	9.9	-	-	-	-	-		
02	20	9789	3.5	3.5	3.0	3.0	3.3	3.0	8.0	R	8	02	5	7	7	3	2	2	3	8	9.9	9.9	-	-	-	-	-		
02	23	9790	3.4	3.2	2.9	3.0	2.0	2.0	8.0	R	8	02	2	7	2	3	3	2	2	8	9.9	9.9	3.6	3.4	0.040	349	3.0	6.0	0.00
03	05	9820	3.4	3.4	3.3	3.2	2.8	2.8	2.0	8.0	R	8	02	2	7	2	3	3	2	2	8	9.9	9.9	-	-	-	-	-	
03	08	9841	3.5	3.5	2.9	2.9	2.2	2.2	8.1	R	7	01	2	5	2	4	3	2	2	8	9.9	9.9	-	-	-	-	-		
03	11	9858	3.5	3.5	2.9	3.0	1.5	1.5	8.1	R	8	03	2	2	8	8	4	3	2	8	9.9	9.9	-	-	-	-	-		
03	14	9849	3.6	3.5	2.7	2.9	1.0	1.0	8.2	R	8	01	2	8	8	4	3	2	8	9.9	9.9	-	-	-	-	-			
03	17	9829	3.4	3.3	3.0	0.5	0.8	0.8	8.1	R	8	02	2	1	1	5	9	7	8	9.9	9.9	-	-	-	-	-			
03	20	9767	3.5	3.2	3.1	0.9	2.8	2.8	1.2	R	8	71	7	8	6	3	4	3	2	8	9.9	9.9	3.7	3.1	0.002	499	1.0	4.9	0.01
04	05	9697	3.7	3.6	3.4	1.0	2.3	2.4	8.0	R	8	61	7	8	6	3	4	3	2	8	9.9	9.9	-	-	-	-	-		
04	08	9654	3.5	3.3	3.1	3.4	1.9	1.9	4.0	R	8	02	7	8	5	4	3	2	8	9.9	9.9	-	-	-	-	-			
04	11	9649	3.4	3.3	3.0	3.4	1.9	1.9	4.0	R	8	79	7	8	6	4	3	2	8	9.9	9.9	-	-	-	-	-			
04	14	9657	3.5	3.2	3.0	3.0	2.1	2.1	1.6	R	8	77	7	7	7	3	2	8	9.9	9.9	-	-	-	-	-				
04	17	9676	3.1	3.1	2.9	2.8	2.1	2.1	0.6	R	8	73	7	8	6	5	4	3	2	8	9.9	9.9	-	-	-	-	-		
04	20	9700	3.1	2.9	2.6	3.1	2.4	2.4	4.0	R	8	71	7	7	7	3	2	8	9.9	9.9	-	-	-	-	-				
04	23	9719	3.1	2.9	2.6	3.1	2.4	2.4	8.1	R	8	26	7	5	2	4	3	2	8	9.9	9.9	3.7	2.9	0.031	307	3.0	5.6	0.06	
05	05	9762	3.2	3.0	2.5	3.1	1.5	1.5	8.1	R	8	02	8	3	2	4	3	2	8	9.9	9.9	-	-	-	-	-			
05	08	9777	3.5	3.0	2.5	3.0	2.0	2.0	8.3	R	5	01	2	5	2	4	3	2	8	9.9	9.9	-	-	-	-	-			
05	11	9793	3.5	3.1	2.7	3.1	1.5	1.5	8.2	R	6	27	8	5	2	4	3	5	8	9.9	9.9	-	-	-	-	-			
05	14	9811	3.5	3.1	2.5	3.1	2.7	2.7	8.2	R	7	02	2	7	7	3	2	8	9.9	9.9	-	-	-	-	-				
05	17	9826	3.4	3.2	2.8	3.2	2.1	2.1	8.1	R	7	02	8	7	8	5	4	3	2	8	9.9	9.9	-	-	-	-	-		
05	20	9850	3.5	3.1	2.7	2.8	1.7	1.7	8.1	R	7	02	2	6	2	4	3	2	8	9.9	9.9	-	-	-	-	-			
05	23	9863	3.5	3.2	3.1	2.7	1.5	1.5	8.1	R	7	02	2	7	5	4	3	2	8	9.9	9.9	-	-	-	-	-			
06	05	9826	3.2	3.1	2.9	0.9	0.8	0.8	8.0	R	8	71	7	8	6	2	4	2	8	9.9	9.9	-	-	-	-	-			
06	08	9774	3.5	3.2	3.0	0.8	2.2	2.2	2.0	R	8	71	7	8	6	2	4	2	8	9.9	9.9	-	-	-	-	-			
06	11	9745	3.4	3.3	3.2	2.2	0.8	0.7	8.0	R	8	71	7	8	6	1	2	4	2	8	9.9	9.9	-	-	-	-	-		
06	14	9759	3.2	3.1	3.1	2.2	3.8	3.8	0.8	R	8	71	7	8	6	3	2	4	2	8	9.9	9.9	-	-	-	-	-		
06	17	9818	3.1	3.1	3.1	2.1	2.1	2.4	8.0	R	7	03	7	7	7	4	4	4	4	8	9.9	9.9	-	-	-	-	-		
06	20	9860	3.5	3.0	2.5	2.5	2.0	2.0	8.1	R	7	02	2	7	7	4	4	4	4	8	9.9	9.9	-	-	-	-	-		
06	23	9895	3.1	2.8	2.7	1.5	1.5	1.5	8.1	R	8	02	2	7	7	4	4	4	1	8	9.9	9.9	3.3	3.0	0.001	386	2.2	4.7	0.00
07	05	9920	3.5	3.2	3.1	2.9	1.1	1.1	8.1	R	8	02	8	6	2	4	3	2	8	9.9	9.9	-	-	-	-	-			
07	08	9932	3.4	3.2	2.8	3.1	1.5	1.5	8.1	R	8	02	8	5	2	4	3	2	8	9.9	9.9	-	-	-	-	-			
07	11	9942	3.4	3.2	2.8	3.0	1.3	1.3	8.1	R	8	27	8	6	2	4	3	2	8	9.9	9.9	-	-	-	-	-			
07	14	9949	3.4	3.3	3.0	2.9	1.5	1.5	8.1	R	8	85	8	8	8	4	3	2	8	9.9	9.9	-	-	-	-	-			
07	17	9963	3.5	3.2	2.9	2.8	1.2	8.3	R	8	02	2	7	7	2	4	4	4	8	9.9	9.9	-	-	-	-	-			
07	20	9978	3.4	3.2	2.7	2.9	1.6	1.6	8.3	R	7	02	2	1	8	4	4	4	4	8	9.9	9.9	-	-	-	-	-		
07	23	9988	3.4	3.2	2.8	3.0	1.3	8.3	R	6	02	2	3	1	4	4	4	4	8	9.9	9.9	-	-	-	-	-			
08	05	0000	3.4	3.2	3.0	2.8	1.2	1.2	8.3	R	7	50	2	4	6	3	3	2	8	9.9	9.9	-	-	-	-	-			
08	08	0007	3.5	3.3	3.0	2.8	0.4	0.4	8.3	R	7	01	2	5	1	4	3	2	8	9.9	9.9	-	-	-	-	-			
08	11	0009	3.7	3.5	3.2	0.4	0.2	0.3	8.3	R	8	03	2	3	3	2	7	2	8	9.9	9.9	-	-	-	-	-			
08	14	0010	3.8	3.6	3.5	0.3	0.3	0.3	8.0	R	8	02	2	4	6	5	3	2	8	9.9	9.9	-	-	-	-	-			
08	17	0000	3.7	3.5	3.1	1.1	2.4	2.4	8.0	R	8	51	2	8	6	2	2	8	9.9	9.9	-	-	-	-	-				
08	20	9985	3.8	3.5	3.3	0.9	1.4	8.1	R	7	02	5	7	6	3	3	2	8	9.9	9.9	-	-	-	-	-				
08	23	9966	3.7	3.7	3.6	0.8	1.6	3.2	8.0	R	53	5	8	6	2	2	8	9.9	9.9	-	-	-	-	-					
09	05	9928	3.6	3.5	3.5	0.6	0.9	0.4	8.0	R	44	4	4	6	0	0	0	8	9.9	9.9	4.0	3.3	0.001	297	0.9	2.8	0.23		
09	08	9936	3.7	3.6	3.6	0.0	0.0	1.6	8.0	R	40	4	7	6	0	0	0	8	9.9	9.9	-	-	-	-	-				
09	11	9945	3.7	3.5	3.5	3.4	0.6	6.4	8.0	R	40	2	8	6	2	2	8	9.9	9.9	-	-	-	-	-					
09	14	9962	3.8																										

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

**HEARD ISLAND
DECEMBER 1949**

DAY	HOUR	STATION LEVEL PRESSURE	WIND		DEW POINT	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	CLOUD DIRECTION		MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST	SUNSHINE					
			DIRECTION	SPEED * x10						CL	h	CM	CH	CL	CM	CH	"F	"F	Miles	* x10	Kts.	Hours
11	05	98874	35	35	34	05	11	82	8	02	2	7	6	5	2	7	1	9	9			
11	06	98867	36	36	35	06	11	82	7	42	4	6	5	5	4	1	8	9	9			
11	11	98831	36	36	35	08	20	8	48	8	61	6	8	6	3	5	2	2	9	9		
11	14	98804	37	36	34	08	26	8	8	8	6	8	6	5	5	8	1	2	9	9		
11	17	97866	35	34	34	25	02	24	8	68	6	7	6	2	1							
11	20	97864	35	35	34	00	00	40	8	15	2	6	2	3	9							
11	23	98602	38	35	34	28	19	34	80	7	60	6	3	2	4	4	7					
12	05	98870	34	33	32	24	21	81	8	03	2	5	6	2	2							
12	08	98891	34	33	32	23	21	24	8	02	8	8	6	2								
12	11	99002	37	34	30	24	21	81	7	02	2	7	5	5								
12	14	99111	36	34	32	26	05	81	8	50	2	5	1	4	7							
12	17	9906	37	34	32	26	05	81	8	02	2	5	0	2								
12	20	99002	35	33	29	27	16	81	6	01	5	2	2	4	5							
12	23	98892	34	33	31	00	00	82	8	02	2	4	1	4	1							
13	05	98857	34	34	34	00	00	40	8	02	7	0	6	2								
13	08	98839	36	35	34	26	15	24	8	20	5	8	8	2								
13	11	98837	36	34	31	26	14	82	7	01	5	7	5	4								
13	14	98828	36	35	33	27	14	81	8	26	2	2	8	5								
13	17	98852	35	33	30	24	14	82	8	02	2	5	0	4								
13	20	98836	34	33	30	29	14	82	7	02	5	7	8	4								
13	23	98838	33	33	32	25	15	80	8	22	2	8	5	3								
14	05	98447	34	32	29	29	18	82	8	02	2	7	1	4	1							
14	08	98847	35	35	32	28	21	81	8	26	3	7	8	4	7							
14	11	98872	35	33	29	28	24	80	8	02	2	7	1	4	7							
14	14	98895	33	32	31	27	18	80	8	25	3	7	2	4	7							
14	17	98809	35	33	30	28	23	81	8	02	7	2	4	5								
14	20	99933	35	33	30	28	28	80	8	05	2	8	2	4								
14	23	99448	33	33	33	24	17	80	8	83	8	8	2	4								
15	05	9928	35	35	34	30	06	82	8	02	2	8	2	4								
15	08	99447	36	35	34	34	08	24	8	68	6	6	6	3								
15	11	99002	36	35	34	08	17	82	8	68	6	6	6	3								
15	14	98867	38	38	37	07	14	20	8	51	5	8	6	5								
15	17	98865	38	38	37	01	16	8	11	7	7	6	1	3								
15	20	98863	38	38	37	36	25	13	48	8	02	2	7	6	2							
15	23	98573	37	35	35	26	13	80	8	20	5	8	6	2								
16	05	98865	35	34	33	23	11	40	8	02	5	8	6	2								
16	08	98878	35	34	27	11	80	8	68	8	02	2	7	6	2							
16	11	98891	37	35	35	27	16	80	8	02	2	7	6	4								
16	14	99115	37	35	35	28	14	48	8	02	7	1	2	3	3							
16	17	99153	38	35	36	27	18	56	7	03	1	6	2	3	0							
16	20	9926	37	34	29	29	12	81	7	03	2	7	8	4	6							
16	23	9931	36	34	30	29	15	82	4	01	2	1	4	4	4	0	40	32	0021	220	27	28
17	05	9926	36	34	31	30	09	80	8	87	2	2	6	5	3	7	7	7	9	9	9	9
17	08	9924	36	35	35	33	04	81	8	02	2	8	6	5	3	7	7	9	9	9	9	9
17	11	9917	38	37	34	34	05	81	8	02	2	8	6	5	3	7	9	9	9	9	9	9
17	14	9905	34	33	33	33	04	80	8	71	7	7	6	5	1	6	9	9	9	9	9	9
17	17	98891	38	35	35	31	28	13	81	8	02	2	4	4	3	9	7	9	7	9	9	9
17	20	98897	36	34	31	00	00	81	8	02	2	4	4	3	4	9	7	9	7	9	9	9
17	23	98898	35	33	29	30	04	82	8	03	6	7	5	5	4	4	6	9	9	9	9	9
18	05	99000	34	33	31	30	06	81	8	03	2	7	5	5	4	4	6	9	9	9	9	9
18	08	98897	36	35	32	34	03	81	8	03	2	7	5	5	4	3	7	9	9	9	9	9
18	11	98899	38	35	32	34	04	82	7	02	2	7	5	5	4	3	9	7	9	9	9	9
18	14	99005	40	37	32	31	06	83	7	02	2	7	5	5	4	3	9	7	9	9	9	9
18	17	99004	37	36	34	33	07	81	8	02	2	7	5	5	4	7	7	9	9	9	9	9
18	20	99006	36	35	33	00	00	81	8	02	2	7	6	5	4	7	7	9	9	9	9	9
18	23	99005	35	34	32	31	08	80	8	02	2	7	6	5	4	7	7	9	9	9	9	9
19	05	98855	35	35	33	02	36	05	83	7	01	2	1	4	3	9	7	9	9	9	9	9
19	08	98874	37	36	34	32	21	18	24	8	85	2	8	8	5	3	8	9	9	9	9	9
19	11	98869	38	36	32	03	07	81	8	02	2	2	2	3	3	7	8	9	9	9	9	9
19	14	98869	38	36	33	06	07	81	8	02	2	2	2	1	4	3	1	9	9	9	9	9
19	17	98870	37	35	32	04	07	81	8	02	2	2	2	1	4	3	1	6	9	9	9	9
19	20	98869	35	34	32	05	02	81	8	02	2	2	2	1	4	3	1	6	9	9	9	9
19	23	98869	35	34	32	06	01	81	8	02	2	2	2	1	4	3	1	6	9	9	9	9
20	05	98871	35	33	32	23	09	06	8	75	7	6	5	5	0	9	9	9	9	9	9	9
20	08	98883	35	34	32	21	18	24	8	85	2	8	8	5	3	5	5	9	9	9	9	9
20	11	98900	36	35	33	24	16	82	7	26	2	5	2	4	3	5	5	9	9	9	9	9
20	14	98908	38	36	32	23	15	83	4	01	1	3	2	4	3	0	5	6	0	0	0	0
20	17	99115	37	35	31	21	12	81	6	02	1	6	2	4	0	0	4	0	0	0	0	0
20	20	9910	35																			

RESULTS OF SURFACE OBSERVATIONS AT HEARD ISLAND FOR THE MONTH OF DECEMBER 1949																									
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		SUNSHINE			
		LST	Mbs.				"F	"F		OKtas	WW	W	OKtas	C _L	h	C _M	C _H	"F	"F	Points	Miles	*x10	Kts.	Hours	
21	05	9811	33	32	29	08	21	80	8	02	2	7	5	4	2	1	9	9	9						
21	08	9779	32	31	31	08	22	16	8	71	7	8	6	5	3	2	9	9	9						
21	11	9739	31	31	30	09	27	12	8	71	7	8	6	5	3	2	9	9	9						
21	14	9709	32	31	30	09	26	08	8	71	7	8	6	5	4	2	9	9	9						
21	17	9697	33	32	31	07	25	16	8	71	7	6	6	4	2	2	9	9	9						
21	20	9701	32	32	31	08	22	24	8	71	7	5	6	4	2	2	9	9	9						
21	23	9714	33	32	30	09	28	28	8	77	7	8	6	4	2	2	9	9	9	3.4	3.0	00000	293		
22	05	9799	33	32	30	00	00	40	7	77	7	7	8	5	1	4	4	9	9	9		0.9	5.1	000	
22	08	9849	34	32	28	18	15	82	7	26	7	7	8	5	1	4	4	9	9	9					
22	11	9877	38	33	23	20	17	82	7	01	2	1	1	4	7	7	5	6	6	6					
22	14	9898	37	33	26	23	23	82	7	02	2	1	1	4	7	7	5	6	6	6					
22	17	9912	36	34	36	02	22	56	8	02	2	1	1	4	7	7	5	6	6	6					
22	20	9935	35	34	32	22	50	81	8	02	2	1	1	4	7	7	5	6	6	6					
22	23	9941	35	35	31	10	10	81	8	20	5	8	2	4	2	2	9	9	9	3.8	3.3	00115	367		
23	05	9954	34	33	32	23	17	81	8	02	5	7	5	2	3	2	9	9	9	3.8	3.3	00115	367		
23	08	9665	34	33	32	24	11	40	8	50	5	8	6	1	2	9	9	9	9	9	9	9	9		
23	11	9967	35	34	33	23	15	81	8	02	5	7	2	3	7	2	9	9	9	9	9	9	9		
23	14	9975	37	35	32	24	20	82	7	02	2	6	2	4	3	2	9	9	9	9	9	9	9		
23	17	9978	35	35	31	25	19	48	8	02	8	7	5	4	3	2	9	9	9	9	9	9	9		
23	20	9989	33	33	32	23	20	83	7	26	5	7	2	2	3	2	9	9	9	3.9	3.2	00003	355		
23	23	9993	34	33	31	25	19	81	8	02	8	8	2	4	2	2	9	9	9	3.9	3.2	00003	355		
24	05	9986	34	33	30	24	22	81	8	02	2	8	0	3	1	2	9	9	9	3.8	3.2	00003	355		
24	08	9982	34	33	29	26	16	48	8	87	8	7	8	3	1	2	9	9	9	3.8	3.2	00003	355		
24	11	9979	35	33	29	24	21	64	7	02	8	7	8	4	2	2	9	9	9	3.8	3.2	00003	355		
24	14	9965	35	33	29	24	21	81	7	01	2	4	2	5	3	1	2	9	9	9	3.8	3.2	00003	355	
24	17	9965	35	33	29	24	21	81	7	02	2	7	2	4	3	1	2	9	9	9	3.8	3.2	00003	355	
24	20	9952	35	32	29	27	10	81	8	02	2	7	2	4	7	1	2	9	9	9	3.8	3.2	00003	355	
24	23	9945	35	33	31	27	10	81	8	70	8	7	2	4	7	1	2	9	9	9	3.8	3.2	00003	355	
25	05	9912	35	32	00	00	00	80	8	02	7	7	6	2	7	1	2	9	9	9	3.8	3.2	00003	355	
25	08	9901	34	34	34	00	00	02	9	47	5	9	0	0	1	2	9	9	9	3.8	3.2	00003	355		
25	11	9898	37	37	35	24	06	81	8	40	2	5	6	2	7	1	2	9	9	9	3.8	3.2	00003	355	
25	14	9899	37	36	35	24	10	80	8	40	4	8	6	1	7	1	2	9	9	9	3.8	3.2	00003	355	
25	17	9906	36	35	35	23	13	10	8	40	4	8	6	1	7	1	2	9	9	9	3.8	3.2	00003	355	
25	20	9916	35	35	35	23	10	12	8	51	5	8	6	1	7	1	2	9	9	9	3.8	3.2	00003	355	
25	23	9954	34	34	22	13	16	81	8	51	7	8	6	1	7	1	2	9	9	9	3.8	3.2	00003	355	
26	05	9975	35	35	25	17	32	82	8	50	5	8	6	1	7	1	2	9	9	9	3.8	3.2	00003	355	
26	08	9989	35	35	23	17	06	82	8	51	5	8	6	1	7	1	2	9	9	9	3.8	3.2	00003	355	
26	11	0003	37	36	34	22	22	80	8	03	4	8	6	2	7	1	2	9	9	9	3.8	3.2	00003	355	
26	14	0023	37	34	30	22	19	81	7	02	2	5	5	4	7	1	2	9	9	9	3.8	3.2	00003	355	
26	17	0034	36	34	30	20	21	81	7	02	2	7	5	4	7	1	2	9	9	9	3.8	3.2	00003	355	
26	20	0039	35	34	31	23	22	81	7	02	2	7	8	5	4	7	1	2	9	9	9	3.8	3.2	00003	355
26	23	0043	35	33	30	24	16	81	6	02	2	2	5	4	5	1	2	9	9	9	3.8	3.2	00003	355	
27	05	0051	34	33	31	23	17	81	7	02	2	8	7	8	2	5	1	2	9	9	9	3.8	3.2	00003	355
27	08	0048	35	34	32	24	15	81	7	02	2	2	7	8	3	5	1	2	9	9	9	3.8	3.2	00003	355
27	11	0047	35	33	24	24	15	82	7	02	2	2	7	8	3	5	1	2	9	9	9	3.8	3.2	00003	355
27	14	0146	35	34	24	24	07	83	7	02	2	2	6	0	4	3	1	2	9	9	9	3.8	3.2	00003	355
27	17	0139	36	34	30	24	21	83	8	02	2	2	6	0	4	3	1	2	9	9	9	3.8	3.2	00003	355
27	20	0030	35	33	29	02	06	83	8	02	2	2	7	5	4	3	1	2	9	9	9	3.8	3.2	00003	355
27	23	0019	34	32	29	03	10	83	8	02	2	2	8	5	4	3	1	2	9	9	9	3.8	3.2	00003	355
28	05	9989	34	33	31	06	17	82	8	02	2	2	7	6	3	1	2	9	9	9	3.9	3.3	00001	418	
28	08	9971	35	34	31	06	22	82	8	02	2	2	7	6	3	1	2	9	9	9	3.9	3.3	00001	418	
28	11	9954	36	34	31	06	23	82	8	02	2	2	8	6	3	1	2	9	9	9	3.9	3.3	00001	418	
28	14	9929	36	35	32	07	29	81	8	02	2	2	8	6	3	1	2	9	9	9	3.9	3.3	00001	418	
28	17	9891	35	34	33	08	30	24	8	65	5	8	6	5	3	1	2	9	9	9	3.9	3.3	00001	418	
28	20	9856	36	34	32	08	30	24	8	69	7	8	6	5	3	1	2	9	9	9	3.9	3.3	00001	418	
28	23	9833	36	35	35	08	23	24	8	61	6	8	6	5	3	1	2	9	9	9	3.9	3.3	00001	418	
29	05	9837	37	36	35	00	00	08	8	53	5	8	6	1	1	2	9	9	9	4.5	3.5	0061	367		
29	08	9895	37	37	37	07	07	01	9	47	4	9	6	0	0	1	2	9	9	9	4.5	3.5	0061	367	

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF JANUARY 1949

DAY	HOUR	STATION LEVEL PRESSURE	WIND												TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	LOW CLOUD	CLOUD DIRECTION	MIDDLE CLOUD	HIGH CLOUD	HEIGHT	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST	DIRECTION	SPEED	SUNSHINE
			DRY BULB	WET BULB	DEW POINT	DIRECTION	SPEED	VISIBILITY	OKLAS	WW	W	OKLAS	C _L	h	C _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.	Hours					
01	01	01 23	4.5	4.2	4.2	2.9	1.8	9.8	8	0 1	2	6	6	3	7	6	6	9	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
01	04	01 19	4.5	4.2	4.1	2.9	2.0	9.8	8	0 2	2	7	6	3	3	0	0	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
01	07	01 22	4.4	4.5	4.3	2.9	1.7	9.8	8	0 2	2	6	6	3	3	0	0	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
01	10	01 29	4.5	4.2	4.1	2.9	1.3	9.7	8	0 2	2	6	6	3	3	0	0	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
01	13	01 30	4.6	4.2	3.6	2.7	1.2	9.8	6	0 2	1	6	5	5	5	0	0	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
01	16	01 29	4.4	4.1	3.7	2.5	0.9	9.8	7	0 2	2	7	6	5	5	3	3	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
01	19	01 34	4.2	3.9	3.4	2.5	0.4	9.8	7	0 2	2	6	5	5	5	3	3	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
01	22	01 40	4.1	3.8	3.4	0.0	0.0	9.8	7	0 2	2	7	5	5	5	3	3	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
02	01	01 36	4.2	3.7	3.1	2.9	0.6	9.8	7	0 2	2	7	5	5	5	3	3	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
02	04	01 32	4.1	3.8	3.3	2.9	0.9	9.8	7	0 2	2	6	5	5	5	3	3	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
02	07	01 36	4.4	4.0	3.6	2.9	0.8	9.8	3	0 1	1	3	5	5	5	0	0	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
02	10	01 36	4.7	4.3	3.8	3.2	1.2	9.8	6	0 3	1	6	5	5	5	0	0	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
02	13	01 35	4.5	4.3	4.1	3.2	1.0	9.8	8	0 2	2	6	5	5	5	3	3	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
02	16	01 31	4.0	4.5	4.5	3.2	1.0	9.8	8	0 5	2	6	5	5	5	3	3	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
02	19	01 32	4.4	4.4	4.3	3.2	0.4	9.8	6	0 2	2	6	5	5	5	3	3	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
03	01	01 34	4.4	4.4	4.4	3.2	1.0	9.8	8	0 2	2	6	5	5	5	3	3	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
03	04	01 17	4.4	4.5	4.3	3.4	0.9	9.8	7	0 2	2	6	5	5	5	3	3	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
03	07	01 15	4.5	4.4	4.4	3.3	0.9	9.8	7	0 2	2	6	5	5	5	3	3	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
03	10	01 10	4.7	4.5	4.3	3.4	0.9	9.8	6	0 2	2	6	5	5	5	3	3	6	6	6	4 6	4 1	0 0 0	4 5 9	2 9	3 2	0 9 1				
03	13	01 00	4.8	4.6	4.1	3.6	1.3	9.8	8	0 5	2	2	5	5	5	5	2	2	8	8	8	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7			
03	16	00 87	4.6	4.3	3.9	3.6	1.6	9.8	8	0 3	2	2	5	5	5	5	0	0	8	8	8	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7			
03	19	00 76	4.5	4.2	3.8	3.0	1.7	9.8	8	0 3	2	2	5	5	5	5	0	0	8	8	8	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7			
04	01	00 64	4.5	4.5	4.5	4.0	3.6	1.8	9.8	8	0 3	2	2	5	5	5	5	0	0	8	8	8	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7		
04	04	00 24	4.5	4.5	4.5	4.0	3.6	0.9	9.8	7	0 2	2	6	5	5	5	2	2	8	8	8	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7			
04	07	00 08	4.5	4.5	4.4	3.6	1.4	9.6	8	5	0	7	7	7	7	2	2	8	8	8	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7				
04	10	99 95	4.6	4.5	4.4	3.6	1.0	9.7	8	0 5	2	7	7	7	7	2	2	8	8	8	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7				
04	13	99 73	4.6	4.5	4.5	3.4	0.4	9.3	8	5	1	5	5	5	5	0	0	8	8	8	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7				
04	16	99 56	4.6	4.5	4.5	3.6	0.4	9.2	9	4	4	5	4	4	4	9	9	9	9	9	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7				
04	19	99 51	4.5	4.5	4.5	3.2	0.3	9.1	9	4	4	5	4	4	4	9	9	9	9	9	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7				
04	22	99 42	4.5	4.5	4.5	3.4	0.3	9.1	9	4	4	5	4	4	4	9	9	9	9	9	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7				
05	01	99 32	4.5	4.5	4.5	3.6	0.6	9.1	9	4	4	5	4	4	4	9	9	9	9	9	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7				
05	04	99 18	4.5	4.5	4.5	3.6	0.4	9.1	9	4	4	5	4	4	4	9	9	9	9	9	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7				
05	07	99 05	4.4	4.4	4.4	1.1	0.4	9.1	9	4	4	5	4	4	4	9	9	9	9	9	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7				
05	10	98 68	4.4	4.4	4.4	1.1	1.1	9.1	9	6	1	5	4	4	4	9	9	9	9	9	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7				
05	13	98 17	4.6	4.5	4.6	0.6	0.9	1.4	9.6	6	0	5	5	5	5	0	0	8	8	8	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7				
05	16	97 87	4.6	4.5	4.6	0.6	0.9	0.9	9.4	8	1	0	5	5	5	5	0	0	8	8	8	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7			
05	19	97 60	4.5	4.5	4.5	3.5	2.3	2.3	9.7	7	2	1	2	2	2	2	7	7	7	7	7	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7			
05	22	97 94	4.5	4.5	4.5	3.4	2.3	2.3	9.4	8	5	2	2	2	2	7	7	7	7	7	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7				
06	01	98 14	4.5	4.5	4.5	3.5	2.9	2.9	9.4	8	0 2	2	6	5	5	5	0	0	8	8	8	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7			
06	04	98 84	4.5	4.5	4.5	3.4	2.4	2.4	1.4	9.7	8	0 2	2	6	5	5	5	2	2	8	8	8	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7		
06	07	98 54	4.5	4.5	4.5	3.4	2.4	2.4	1.4	9.7	8	0 2	2	6	5	5	5	2	2	8	8	8	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7		
06	10	98 53	4.5	4.5	4.5	3.0	2.6	2.6	0.9	9.8	8	0 2	2	6	5	5	5	2	2	8	8	8	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7		
06	13	98 50	4.5	4.5	4.5	3.5	3.5	3.5	0.4	9.1	9	4	4	4	4	9	9	9	9	9	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7				
06	16	98 73	4.4	4.4	4.4	3.0	2.7	2.7	1.4	9.8	8	0 2	2	6	5	5	5	2	2	8	8	8	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7		
06	19	99 50	4.2	4.0	3.7	3.3	1.2	1.2	9.8	7	0 3	2	2	2	2	7	7	7	7	7	4 8	4 3	0 0 0	2 5 4	3 6	3 1	0 4 7				
07	02	99 55	4.3	4.2	4.2	3.6	1.6	1.6	9.7	7	0 3	2	2	2	2	7</															

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF JANUARY 1949																										
DAY	HOUR	STATION LEVEL PRESSURE		DRY BULB	WET BULB	DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	CLOUD DIRECTION		LOW CLOUD	MIDDLE CLOUD	HIGH CLOUD	LOW	MIDDLE	HIGH	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST			
		LST.	Mbs.				"F	"F			Present Weather	Past Weather	Amount	Type	Height	CL	h	CM	CH	"F	"F	Points	Miles	Direction	Speed	Sunshine
11	0 1	9 9 3 4	4 2	4 0	3 7	2 7	0 9	9 8	6	0 3	1	5	7	3	2											
11	0 4	9 9 3 8	4 0	3 9	3 8	2 7	0 7	9 7	8	6 1	6	2	7	4	2	6	6	6	6	6						
11	0 7	9 9 5 1	4 2	3 9	3 5	2 7	0 9	9 9	6	0 2	1	4	8	4	4	1	5	5	5	5						
11	1 0	9 9 7 5	4 5	4 2	3 8	1 9	0 7	9 8	7	0 2	2	5	8	4	3	1	5	5	5	5						
11	1 3	0 0 0 8	4 5	4 2	3 8	2 5	1 6	9 8	7	0 1	8	6	8	4	3	1	5	5	5	5						
11	1 6	0 0 3 4	4 5	4 0	3 5	2 6	1 4	9 8	6	0 3	2	5	8	4	3	1	5	5	5	5						
11	1 9	0 0 6 2	4 0	3 8	3 6	2 5	0 9	9 8	7	0 2	9	6	8	6	6	6	6	6	6	6						
11	2 2	0 0 7 7	4 0	3 7	3 2	2 6	1 3	9 8	7	0 2	8	7	8	6	5	5	5	5	5	5	4 6	3 9	0 0 0 8	2 6 9	2 5 4 1 0 5 7	
12	0 1	0 0 8 5	4 1	3 8	3 3	2 7	1 5	9 7	7	0 2	8	7	8	6	5	5	5	5	5	5						
12	0 4	0 0 8 9	3 8	3 7	3 5	2 7	1 8	9 8	8	2 5	8	8	8	7	3	6	6	6	6	6						
12	0 7	0 0 9 1	4 2	3 9	3 4	2 7	2 0	9 8	6	0 1	2	2	8	4	3	6	6	6	6	6						
12	1 0	0 0 9 4	4 1	4 0	3 6	2 7	2 2	9 8	8	0 3	2	7	8	4	1	6	6	6	6	6						
12	1 3	0 0 7 7	4 4	4 3	4 2	2 9	2 1	9 7	8	6 1	2	8	7	3	2	6	6	6	6	6						
12	1 6	0 0 6 7	4 5	4 4	4 3	2 8	2 5	9 7	8	0 2	6	7	6	3	2	6	6	6	6	6						
12	1 9	0 0 5 1	4 4	4 5	4 2	2 7	3 1	9 7	8	0 2	5	8	6	3	2	6	6	6	6	6						
12	2 2	0 0 6 0	4 3	4 2	3 9	2 7	2 8	9 7	8	0 2	2	8	6	3	2	6	6	6	6	6		4 5	3 8	0 0 0 3	3 9 0	2 7 4 3 0 0 0
13	0 1	0 0 5 0	4 5	4 2	4 1	2 7	2 8	9 7	8	0 2	2	8	6	3	2	6	6	6	6	6						
13	0 4	0 0 4 8	4 2	4 2	4 2	2 8	2 8	9 6	8	5 1	5	8	6	3	2	6	6	6	6	6						
13	0 7	0 0 4 5	4 4	4 5	4 2	2 8	2 6	9 6	8	0 2	2	8	6	3	2	6	6	6	6	6						
13	1 0	0 0 3 7	4 5	4 4	4 2	2 9	2 1	9 7	8	0 2	2	8	6	3	2	6	6	6	6	6						
13	1 3	0 0 2 1	4 5	4 4	4 3	2 9	2 2	9 7	8	0 2	2	8	6	3	2	6	6	6	6	6						
13	1 6	0 0 0 2	4 5	4 4	4 3	2 9	2 5	9 7	8	0 2	2	8	6	3	2	6	6	6	6	6						
13	1 9	9 9 7 7	4 4	4 3	4 3	3 0	3 0	9 7	8	6 1	6	7	7	3	2	6	6	6	6	6		4 6	4 2	0 0 1 2	7 0 5	2 7 4 1 0 2 5
13	2 2	9 9 5 9	4 4	4 3	4 3	2 9	2 8	9 6	8	6 1	6	7	7	3	2	6	6	6	6	6						
14	0 1	9 9 3 4	4 4	4 4	4 4	2 9	2 6	9 6	8	5 3	5	8	7	3	2	6	6	6	6	6						
14	0 4	9 9 2 1	4 4	4 5	4 2	2 7	2 3	9 7	8	0 1	5	7	6	3	7	6	6	6	6	6						
14	0 7	9 9 2 7	4 1	4 0	4 0	2 7	2 6	9 8	7	8 0	9	6	8	4	6	7	6	6	6	6						
14	1 0	9 9 3 7	4 0	3 8	3 5	2 7	2 8	9 7	7	0 2	9	4	8	4	7	6	6	6	6	6						
14	1 3	9 9 5 3	4 3	4 1	3 9	2 6	2 3	9 8	6	0 2	2	8	6	4	0	0	5	5	5	5						
14	1 6	9 9 7 4	4 3	4 0	3 7	2 4	2 5	9 8	7	0 2	2	7	6	3	4	5	5	5	5	5						
14	1 9	0 0 0 9	4 2	4 0	3 7	2 3	1 7	9 8	8	0 2	2	8	6	4	4	5	5	5	5	5		4 5	4 0	0 0 0 2	6 9 4	2 7 5 1 0 3 4
14	2 2	0 0 2 8	4 1	3 9	3 6	2 2	1 2	9 8	8	0 2	2	8	6	4	4	5	5	5	5	5						
15	0 1	0 0 5 8	4 1	3 9	3 6	2 3	1 6	9 8	8	0 2	2	8	6	5	4	5	5	5	5	5						
15	0 4	0 0 4 3	4 0	3 9	3 9	2 4	1 3	9 7	8	5 0	2	8	6	5	4	5	5	5	5	5						
15	0 7	0 0 4 7	4 1	4 0	3 9	2 4	1 2	9 8	8	0 2	2	8	6	4	3	6	5	5	5	5						
15	1 0	0 0 3 9	4 5	4 2	3 8	2 2	9 8	8	0 2	2	8	6	4	3	6	5	5	5	5	5						
15	1 3	0 0 2 8	4 5	4 4	4 2	2 9	2 6	9 8	7	0 2	2	8	6	4	3	6	5	5	5	5						
15	1 6	0 0 2 2	4 4	4 3	4 1	2 9	2 3	9 8	7	0 2	2	8	6	4	3	6	5	5	5	5						
15	1 9	0 0 0 1	4 4	4 3	4 3	2 9	2 2	9 7	8	0 2	2	8	6	3	2	6	5	5	5	5						
16	0 1	0 0 0 1	4 3	4 3	4 3	3 0	2 2	9 7	8	0 2	2	8	6	3	2	6	5	5	5	5						
16	0 4	9 9 8 4	4 3	4 5	4 4	2 0	9 7	9 7	8	0 2	2	8	6	3	2	6	5	5	5	5		4 6	4 0	0 0 0 0	4 5 8	2 9 3 5 0 0 3
16	0 7	9 9 7 4	4 4	4 4	4 4	3 1	2 0	9 7	8	0 2	2	8	6	3	2	6	5	5	5	5						
16	1 0	9 9 6 5	4 5	4 5	4 5	2 2	2 4	9 5	8	1 0	4	8	6	6	1	7	6	6	6	6						
16	1 3	9 9 6 9	4 5	4 5	4 5	2 7	2 4	9 5	8	0 1	5	5	5	5	5	2	6	6	6	6						
16	1 6	9 9 8 3	4 5	4 2	4 1	2 7	1 0	9 8	8	0 1	6	7	6	3	2	6	6	6	6	6						
16	1 9	0 0 0 8	4 2	4 0	3 8	1 9	0 9	9 8	8	0 1	2	4	6	4	2	7	6	6	6	6		4 5	4 1	0 0 0 3	6 1 0	3 1 3 0 0 0 1
16	2 2	0 0 3 3	4 2	4 0	3 7	2 5	0 2	9 8	7	0 1	2	2	6	4	7	6	6	6	6	6						
17	0 1	0 0 4 7	4 1	3 9	3 6	2 1	0 4	9 8	7	0 2	2	8	6	5	4	3	6	6	6	6						
17	0 4	0 0 6 4	4 0	3 8	3 5	1 8	1 4	9 8	7	0 3	2	8	6	5	4	3	6	6	6	6						
17	0 7	0 0 8 7	4 1	3 9	3 6	1 7	1 4	9 8	8	0 2	2	8	6	5	4	3	6	6	6	6						
17	1 0	0 0 9 3	4 2	3 9	3 5	1 6	1 1	9 8	8	0 2	2	8	6	5	4	3	6	6	6	6						
17	1 3	0 0 9 9	4 3	4 0	3 6	1 6	1 1	9 8	8	0 1	2	8	6	5	4	3	6	6	6	6						
17	1 6	0 0 1 0	4 3	4 1	3 7	1 5	0 7	9 9	8	0 2	2	8	6	5	4	3	6	6	6	6						
17	1 9	0 0 0 2	4 1	3 8	3 6	1 7	0 4	9 9	8	0 3	1	1	1	5	5	5	0	0	5	4						
17	2 2	0 0 0 0	4 0	3 8	3 6	1 6	0 5	9 8	8	0 2	2	8	6	5	4	2	6	6	6	6		4 4				

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF MACQUARIE ISLAND
JANUARY 1949**

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF												MACQUARIE ISLAND JANUARY 1949															
DAY	HOUR	STATION LEVEL PRESSURE			WIND			VISIBILITY			LOW CLOUD TOTAL CLOUD	PAST WEATHER	AMOUNT	TYPE	HEIGHT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST				
		DRY BULB	WET BULB	DEW POINT	DIRECTION	SPEED	*x10	Kts.	VV	Oktas	ww	W	Oktas	CL	h	MIDDLE CLOUD	LOW CLOUD	DIR	DIR	DIR	DIR	DIR	DIR	DIR	DIR		
LST.		Mbs.	"F	"F	"F	"F	*x10	Kts.	VV	Oktas	ww	W	Oktas	CL	h	CM	CH	CL	CM	CH	"F	"F	Points	Miles	*x10	Kts.	Hours
21	0 1	9 9 8 7	4 4	4 5	4 3	3 5	2 1	9 3	8	5 1	2	8	7	1							8	8					
21	0 4	9 9 5 5	4 5	4 5	4 5	3 4	1 8	9 3	8	5 1	6	8	7	0							7	7					
21	0 7	9 9 4 7	4 5	4 5	4 5	3 2	1 9	9 6	8	1 0	5	8	7	1							7	7					
21	1 0	9 9 3 4	4 7	4 5	4 4	3 2	2 0	9 8	8	0 1	1	4	8	3							7	7					
21	1 3	9 9 2 7	4 5	4 6	4 5	3 2	2 0	9 8	3	0 1	1	3	8	0							7	7					
21	1 6	9 9 1 4	4 7	4 5	4 3	3 1	1 6	9 8	5	0 3	1	4	8	4							7	7					
21	1 9	9 9 0 4	4 4	4 2	3 9	2 9	1 5	9 8	7	0 2	2	7	8	5							7	7					
21	2 2	9 9 7 9	4 4	4 1	5 7	2 9	1 7	9 8	8	0 2	2	8	5	4							6	6					
22	0 1	9 8 6 9	4 3	4 0	3 5	2 9	2 4	9 8	8	0 2	2	8	5	4							6	6					
22	0 4	9 8 7 3	4 3	4 0	3 5	2 9	2 6	9 8	8	0 2	2	8	5	4							6	6					
22	0 7	9 8 7 8	4 3	4 0	3 5	2 9	2 3	9 8	7	0 2	2	7	5	4							6	6					
22	1 0	9 9 0 1	4 4	4 1	5 7	2 9	2 4	9 8	8	0 2	2	7	5	5							7	7					
22	1 3	9 9 0 4	4 6	4 3	3 9	2 9	1 8	9 8	8	0 2	2	8	5	3							7	7					
22	1 6	9 9 0 5	4 5	4 1	3 8	2 7	1 5	9 8	7	0 2	2	7	5	4							5	5					
22	1 9	9 9 1 7	4 2	3 8	3 3	2 6	1 8	9 8	7	0 2	2	7	5	4							6	6					
22	2 2	9 9 3 4	4 1	3 9	3 7	2 7	1 9	9 8	7	0 3	8	7	0	4							6	6					
23	0 1	9 9 4 9	4 1	3 9	5 6	2 7	1 6	9 8	3	0 2	8	3	0	4							6	6					
23	0 4	9 9 5 2	4 1	3 9	3 4	2 7	1 5	9 8	6	0 2	1	5	8	4							6	6					
23	0 7	9 9 6 4	4 2	4 0	3 9	2 9	0 5	9 7	7	8	0	1	7	5							6	6					
23	1 0	9 9 6 8	4 5	4 2	3 8	3 3	0 2	9 8	6	0 2	1	6	8	6							6	6					
23	1 3	9 9 6 6	4 8	4 4	3 9	0 0	0 0	9 8	5	0 3	1	2	8	6							7	7					
23	1 6	9 9 6 5	4 6	4 5	3 9	0 1	0 7	9 8	5	0 2	1	1	8	6							6	6					
23	1 9	9 9 6 5	4 4	4 2	3 9	1 3	1 9	9 8	7	0 3	1	2	5	5							6	6					
23	2 2	9 9 8 4	4 2	4 2	3 7	1 4	2 5	9 8	3	0 1	1	2	5	5							4 6	4 0	0 0 0 0	5 1 6	2 9	3 2	0 3 6
24	0 1	0 0 0 4	4 1	3 9	5 6	1 6	2 1	9 8	6	0 2	1	6	8	6							6	6					
24	0 4	0 0 2 7	4 1	3 9	3 5	1 5	2 0	9 8	8	0 2	2	8	5	4							6	6					
24	0 7	0 0 6 3	4 2	4 3	5 2	1 7	1 4	9 8	8	0 2	2	8	5	4							6	6					
24	1 0	0 0 8 4	4 2	4 3	5 2	1 6	1 1	9 8	8	0 2	2	8	5	4							6	6					
24	1 3	0 0 9 7	4 3	3 9	3 4	1 5	0 3	9 8	7	0 2	2	8	5	5							6	6					
24	1 6	0 0 6 6	4 3	3 9	5 3	2 6	0 4	9 8	8	0 2	2	8	5	5							6	6					
24	1 9	0 0 9 5	4 4	4 2	3 7	1 4	2 5	9 8	8	0 2	2	8	5	5							6	6					
25	0 1	0 0 1 1	4 1	3 8	3 3	0 0	0 0	9 8	7	0 3	1	2	5	5							4 6	4 1	0 0 0 0	3 9 1	1 6	2 9	0 8 0
25	0 4	0 0 2 7	4 1	3 9	5 6	1 5	2 0	9 8	8	0 2	2	8	5	4							6	6					
25	0 7	0 0 9 0	4 2	3 9	5 3	0 0	0 0	9 8	8	0 2	2	8	5	4							6	6					
25	1 0	0 0 9 4	4 1	3 9	5 6	0 1	0 9	9 8	8	0 2	2	8	5	4							6	6					
25	1 3	0 0 9 9	4 6	4 2	5 1	0 7	0 9	9 8	7	0 3	1	0	0	9							7	7					
25	1 6	0 0 9 4	4 3	4 2	5 2	0 9	9 7	8	6	0 2	2	6	7	4							6	6					
25	1 9	0 0 9 5	4 4	4 3	4 2	3 1	1 2	9 7	8	6	0 2	2	6	7	3						6	6					
26	0 1	0 0 9 5	4 3	4 3	4 3	1 3	1 3	9 7	8	6	1	6	6	7	3						6	6					
26	0 4	0 0 1 1	4 1	4 0	4 0	2 3	0 4	9 8	8	0 1	1	2	7	4							7	7					
26	0 7	0 0 1 9	4 6	4 2	5 6	3 1	0 7	9 8	7	0 3	1	0	0	9							7	7					
26	1 0	0 0 2 0	4 3	4 2	5 2	0 9	9 7	8	6	0 2	2	6	7	4							6	6					
26	1 3	0 0 2 2	4 4	4 3	4 2	3 1	1 2	9 7	8	6	0 2	2	6	7	3						6	6					
26	1 6	0 0 2 9	4 4	4 2	4 1	2 8	1 4	9 7	8	6	0 3	1	2	7	3						6	6					
26	1 9	0 0 3 8	4 5	4 2	4 1	2 8	1 4	9 7	8	6	0 3	1	2	7	3						6	6					
27	0 1	0 0 5 5	4 3	4 2	4 0	3 0	2 6	9 8	7	2	2	8	8	7	3						6	6					
27	0 4	0 0 7 7	4 1	4 0	4 0	2 7	1 8	9 6	5	0 2	2	8	5	5							7	7					
27	0 7	0 0 8 4	4 5	4 2	4 1	2 7	2 3	9 6	5	0 2	2	8	5	5							7	7					
27	1 0	0 0 9 6	4 4	4 2	4 2	2 7	1 5	9 7	5	0 2	2	8	5	5							7	7					
27	1 3	0 0 6 6	4 4	4 2	4 2	2 8	1 4	9 7	6	0 3	1	2	8	5							6	6					
27	1 6	0 0 1 2	4 4	4 2	4 2	3 0	1 5	9 7	6	0 3	2	5	5	5							6	6					
27	1 9	0 0 1 3	4 5	4 2	4 2	3 0	1 5	9 7	6	0 3	2	5	5	5							6	6					
28	0 1	0 0 4 0	4 3	4 3	4 3	3 0	1 7	9 7	7	0 2	2	5	5	5							6	6					
28	0 4	0 0 3 7	4 3	4 3	3 0	2 1	1 9	9 7	7	0 3	2	5	5	5							6	6					
28	0 7	0 0 3 9	4 4	4 4	3 2	1 6	1 9	9 7	8	0 3	2	6	7	3							7	7					
28	1 0	0 0 3 5	4 5	4 5	3 0	2 1	1 9	9 7	4	8	1	9	4	0							6	6					
28	1 3	0 0 1 5	4 4	4 4	4 4	3 0	2 2	9 5	8	5 1	6	6	8	7							7	7					
28	1 6	0 0 9 3	4 4	4 4	4 4	3 1	2 0	9 6	8	6	1	6	7	7							6	6					
28	1 9	0 0 7 5	4 5	4 5	4 5	2 9	2 2	9 6	8	6	3	6	3	3							6	6					
29	0 2	0 0 5 9	4 3	4 3	2 9	2 1	9 6	8	5 3	6	7	7	3	2							4 5	4 2	0 0 2 4	4 7 5	2 7	4 0	0 4 3
29	0 5	0 0 5 9	4 0	3 9	3 8	2 7	2 3	1 4	9 7	8	8	0	2	8	8	4						6	6				
29	0 8	0 0 7 2	4 1	4 0	5 0	2 5	1 8	9 8	4	8	1	9	4	0							4	4					
29	1 1	0 0 0 0	4 1	4 0	5 0	0 0	0 0	9 8	8	0 2	2	8	5	5							4	4					
29	1 4	0 0 8 3	4 5	4 2	4 2	1 7	9 7	4	0 2	2	8	5	5	5							4	4					
29	1 7	0 0 8 2	4 3	4 1	3 8	2 5	1 9</																				

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF																			MACQUARIE ISLAND JANUARY 1949											
DAY	HOUR	STATION ALTIMETER PRESSURE		WIND		VISIBILITY	TOTAL CLOUD	CLOUD DIRECTION		PRECENT WEATHER	PAST WEATHER	AMOUNT	TYPE	HEIGHT	LOW CLOUD	MIDDLE CLOUD	HIGH CLOUD	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 _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	*x10	Kts.				
31	01	9 9 1 7	4 0	3 8	5 5	3 6	0 4	9 8	6	0 3	1	6	5	4	2	4	6	4	2	2	2	2	2	4 4	4 0	0 0 1 6	1 3 2	2 7	5 2	0 5 6
31	04	9 8 7 5	4 1	4 0	5 8	0 7	0 7	9 8	8	0 2	2	4	6	4	1	2	4	6	4	1	1	1	1	1						
31	07	9 8 3 7	4 1	4 1	4 1	0 5	0 9	9 6	8	6 3	6	6	7	5	6	7	7	5	6	7	7	5	5							
31	10	9 7 8 1	4 2	4 1	4 1	0 7	2 3	9 6	8	6 3	6	7	7	5	7	7	7	5	7	7	7	5	5							
31	13	9 7 2 7	4 4	4 3	4 3	2 9	2 8	9 7	8	0 1	6	2	7	5	2	2	2	2	2	2	2	2	2							
31	16	9 7 3 1	4 3	4 3	4 3	2 8	3 2	9 8	8	0 2	2	7	7	5	2	7	7	5	2	7	7	5	5							
31	19	9 7 2 5	4 3	4 2	4 2	2 7	1 8	9 8	7	0 2	1	7	7	8	4	7	7	8	4	7	7	8	4							
31	22	9 7 2 2	4 2	4 2	4 1	2 8	1 6	9 8	7	0 2	2	7	7	8	4	7	7	8	4	7	7	8	4							

**RESULTS OF SURFACE OBSERVATIONS AT
MACQUARIE ISLAND
FOR THE MONTH OF FEBRUARY 1949**

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF														MACQUARIE ISLAND FEBRUARY 1949									
DAY	HOUR	STATION LEVEL PRESSURE		DRY BULB		WET BULB		DEW POINT °F	DIRECTION	VISIBILITY Mts.	TOTAL CLOUD % x 10	LOW CLOUD TYPE	PAST WEATHER AMOUNT	CLOUD DIRECTION			MAXIMUM TEMPERATURE °F	MINIMUM TEMPERATURE °F	PRECIPITATION Points	ANEMOMETER DIRECTION	MAXIMUM GUST SPEED	SUNSHINE Hours	
		Dry Bulb °F	Wet Bulb °F	Wind Direction	Speed Kts.	VV	Cloud Cover Octas							Middle Cloud CL	Height h	Middle Cloud CM	High Cloud CH						
01	01	97.22	42	42	41	27	22	9.8		3	02	1	3	8	4	6	5	5	5	5	5	5	5
01	04	97.25	41	41	41	27	20	9.8		7	02	8	6	8	4	6	5	5	5	5	5	5	5
01	07	97.37	43	42	41	27	22	9.8		6	02	1	4	8	4	6	5	5	5	5	5	5	5
01	10	97.48	44	44	44	28	18	9.8		7	02	8	5	8	4	6	5	5	5	5	5	5	5
01	13	97.58	45	44	43	29	15	9.8		6	02	2	4	8	4	6	5	5	5	5	5	5	5
01	16	97.67	45	44	43	27	11	9.8		7	02	2	6	7	4	3	1	6	6	6	6	6	6
01	19	97.78	42	42	42	26	14	9.8		8	03	6	6	8	5	3	7	5	5	5	5	5	5
01	22	97.89	42	42	41	27	14	9.8		8	02	9	6	8	5	4	6	5	5	5	5	5	5
02	01	98.02	42	42	41	40	27	21	9.7		5	02	9	5	8	4	6	5	5	5	5	5	5
02	04	98.22	41	40	39	27	29	9.8		7	02	9	7	4	4	6	5	5	5	5	5	5	5
02	07	98.59	42	41	58	27	25	9.8		2	02	1	2	8	4	4	6	5	5	5	5	5	5
02	10	98.78	45	44	43	27	15	9.8		4	02	1	4	8	4	6	5	5	5	5	5	5	5
02	13	98.87	45	44	43	29	18	9.8		7	02	9	6	8	4	6	5	5	5	5	5	5	5
02	16	98.83	45	44	43	31	14	9.7		8	03	2	1	7	5	1	7	5	5	5	5	5	5
02	19	98.67	38	38	36	04	9.8	8		6	03	6	7	7	3	2	4	4	4	4	4	4	4
02	22	98.18	40	40	40	09	9.7			6	03	6	7	5	2	2	4	4	4	4	4	4	4
03	01	98.29	39	39	39	18	14	9.8		6	01	2	6	8	3	3	3	5	5	5	5	5	5
03	04	98.68	40	40	59	28	14	9.8		7	02	1	6	8	3	3	3	5	5	5	5	5	5
03	07	98.90	43	42	42	29	17	9.8		3	01	1	1	4	3	3	3	5	5	5	5	5	5
03	10	99.00	45	45	43	51	14	9.8		6	03	1	1	5	3	3	1	6	6	6	6	6	6
03	13	98.99	44	44	43	52	34	9.6		8	01	2	5	8	4	6	5	5	5	5	5	5	5
03	16	99.08	43	42	41	27	13	9.8		6	02	2	5	8	4	6	5	5	5	5	5	5	5
03	19	99.20	43	42	41	38	32	07	9.8	7	03	1	3	8	4	3	3	5	5	5	5	5	5
03	22	99.09	43	42	41	36	09	9.8		7	02	2	1	5	3	3	3	5	5	5	5	5	5
04	01	98.48	43	42	41	05	15	9.7		8	03	6	6	5	5	5	5	5	5	5	5	5	5
04	04	97.74	45	45	45	36	22	9.6		6	02	1	6	6	2	2	2	4	4	4	4	4	4
04	07	97.69	45	45	44	34	12	29		6	01	2	2	4	3	3	3	5	5	5	5	5	5
04	10	97.59	45	44	43	32	26	9.7		5	01	2	2	5	3	3	3	5	5	5	5	5	5
04	13	97.81	44	44	41	58	29	9.8		8	02	2	2	5	3	3	3	5	5	5	5	5	5
04	16	98.29	43	42	40	29	32	9.8		7	02	2	2	5	3	3	3	5	5	5	5	5	5
04	19	98.86	45	45	40	29	23	9.8		3	01	1	3	8	4	3	3	5	5	5	5	5	5
04	22	99.15	42	40	57	29	14	9.8		1	01	1	1	1	1	1	1	5	5	5	5	5	5
05	01	99.17	43	42	41	33	12	9.8		1	02	1	1	1	1	1	1	5	5	5	5	5	5
05	04	99.07	42	41	40	36	17	9.7		6	02	1	1	1	1	1	1	5	5	5	5	5	5
05	07	98.89	44	44	41	37	00	9.0		8	02	2	1	1	1	1	1	5	5	5	5	5	5
05	10	98.60	45	42	39	00	9.8		8	03	2	1	1	1	1	1	5	5	5	5	5	5	5
05	13	98.03	44	44	40	17	9.7		8	02	2	1	1	1	1	1	5	5	5	5	5	5	5
05	16	97.55	46	46	45	36	33	9.6		8	03	6	7	8	5	5	5	5	5	5	5	5	5
05	19	97.53	45	44	44	33	20	9.7		5	05	1	2	1	1	1	1	5	5	5	5	5	5
05	22	97.65	46	46	45	34	25	9.7		5	05	1	5	5	5	5	5	5	5	5	5	5	5
06	01	97.51	45	45	44	34	29	9.7		6	02	1	1	1	1	1	1	5	5	5	5	5	5
06	04	97.71	45	44	44	33	27	9.7		8	03	6	7	8	5	5	5	5	5	5	5	5	5
06	07	98.01	46	45	44	35	28	9.6		2	02	0	2	1	1	1	1	5	5	5	5	5	5
06	10	98.25	46	45	44	33	26	9.6		1	02	0	2	1	1	1	1	5	5	5	5	5	5
06	13	98.44	45	45	42	33	27	9.6		2	02	0	2	1	1	1	1	5	5	5	5	5	5
06	16	98.58	46	46	44	42	33	24	9.6	2	02	0	2	1	1	1	1	5	5	5	5	5	5
06	19	98.56	45	45	44	34	26	9.6		2	02	0	2	1	1	1	1	5	5	5	5	5	5
06	22	98.78	45	45	44	33	26	9.6		2	02	0	2	1	1	1	1	5	5	5	5	5	5
07	01	98.85	45	45	41	33	25	9.6		2	02	0	2	1	1	1	1	5	5	5	5	5	5
07	04	98.99	44	44	42	33	17	9.6		3	03	1	2	1	1	1	1	5	5	5	5	5	5
07	07	99.00	45	45	42	33	15	9.6		7	02	2	1	1	1	1	1	5	5	5	5	5	5
07	10	99.08	45	45	43	32	13	9.6		2	01	1	1	1	1	1	1	5	5	5	5	5	5
07	13	99.24	47	47	45	33	13	9.6		6	03	1	1	1	1	1	1	5	5	5	5	5	5
07	16	99.41	45	44	43	33	15	9.7		5	01	2	1	1	1	1	1	5	5	5	5	5	5
07	19	99.49	44	44	43	34	17	9.7		7	03	1	2	1	1	1	1	5	5	5	5	5	5
07	22	99.65	44	44	43	34	21	9.7		2	01	1	1	1	1	1	1	5	5	5	5	5	5
08	01	99.81	44	43	43	32	20	9.8		1	02	1	1	1	1	1	1	5	5	5	5	5	5
08	04	99.97	44	43	43	32	20	9.7		3	03	1	2	1	1	1	1	5	5	5	5	5	5
08	07	00.17	45	44	43	33	21	9.7		7	02	1	1	1	1	1	1	5	5	5	5	5	5
08	10	00.26	46	44	42	32	24	9.8		2	01	9	1	8	4	6	6	7	7	7	7	7	7
08	13	00.45	47	47	46	33	24	9.7		7	03	1	1	1	1	1	1	5	5	5	5	5	5
08	16	00.62	47	47	45	42	33	19	9.7	7	03	1	1	1	1	1	1	5	5	5	5	5	5
08	19	00.68	45	44	44	34	13	9.6		7	03	1	1	1	1	1	1	5	5	5	5	5	5
08	22	00.49	46	45	46	02	04	9.6		8	03	2	7	6	2	2	2	1	1	1	1	1	1
09	01	99.51	45	45	45	09	12	9.6		8	03	6	6	7	6	2	2	1	1	1	1	1	1
09	04	98.54	48	48	35	26	9.4		8	03	6	6	8	5	1	1	1	1	1	1	1	1	1
09	07	98.49	46	46	45	33	27	9.6		8	02	2	8	5	2	2	2	1	1	1	1	1	1
09	10	98.39	46	45	44	31	3																

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

**MACQUARIE ISLAND
FEBRUARY 1949**

DAY	HOUR	STATION ELEV. PRESSURE.	WIND		DEW POINT	DIRECTION	VISIBILITY	TOTAL CLOUD	LOW CLOUD		CLOUD DIRECTION	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE	
			DRY BULB	WET BULB					SPEED *x10	Kts.						DIRECTION	SPEED *x10	Kts.	
11	0 1	9 8 7 8	4 5	4 3	4 3	3 4	1 4	9 7	3	0 2	1	3	7	6	8				
11	0 4	9 8 5 5	4 5	4 4	4 4	0 1	2 1	9 7	7	0 3	5	8	5	7	6				
11	0 7	9 8 3 5	4 3	4 3	4 3	3 0	1 4	9 7	8	0 1	6	7	8	5	6				
11	1 0	9 8 4 1	4 5	4 4	4 3	2 9	1 0	9 8	5	0 2	1	3	8	4	6				
11	1 3	9 8 4 7	4 5	4 4	4 3	2 9	2 1	9 8	7	0 2	2	7	8	4	6				
11	1 6	9 8 5 3	4 4	4 2	4 1	2 8	1 9	9 7	7	0 2	2	7	7	8	4				
11	1 9	9 8 5 5	4 3	4 1	3 8	2 9	2 3	9 8	7	0 2	2	7	8	5	6				
11	2 2	9 8 5 7	4 1	4 1	4 0	2 9	2 5	9 8	7	0 2	2	7	7	5	5				
12	0 1	9 8 5 5	4 0	4 0	4 0	2 7	2 0	9 7	8	0 3	2	7	6	2	2		4 5	4 2	0 0 0 5
12	0 7	9 8 5 3	4 1	3 9	3 6	2 9	1 5	9 8	6	0 2	2	4	8	5	6				
12	1 0	9 8 4 7	4 2	4 0	3 7	2 8	1 5	9 8	3	0 2	1	2	8	5	7				
12	1 3	9 8 5 7	4 5	4 1	3 5	2 9	1 8	9 8	3	0 2	1	3	8	5	6				
12	1 6	9 8 2 8	4 4	4 1	3 7	2 9	1 4	9 8	3	0 2	1	3	8	5	6				
12	1 9	9 8 1 9	4 2	4 0	3 9	3 2	1 2	9 8	5	0 2	0	5	5	5	6				
12	2 2	9 8 1 5	4 0	3 9	3 8	2 6	0 4	9 8	7	0 2	0	5	5	5	6				
13	0 1	9 8 0 8	4 1	3 9	3 8	3 0	1 3	9 8	5	0 2	0	5	5	5	6				
13	0 4	9 8 0 6	3 9	3 9	3 8	0 0	0 0	9 7	7	0 1	8	7	7	5	6				
13	0 7	9 8 2 4	4 1	3 9	3 6	1 9	0 4	9 8	7	0 2	2	7	8	5	6				
13	1 0	9 8 4 8	4 0	3 9	3 6	1 9	1 0	9 7	8	0 3	8	8	8	4	5				
13	1 3	9 8 6 2	4 1	3 9	3 5	2 7	1 3	9 8	6	0 2	1	5	8	5	6				
13	1 6	9 8 5 1	4 5	3 9	3 4	2 8	1 0	9 8	7	0 2	1	6	8	5	6				
13	1 9	9 8 6 4	4 1	3 8	3 3	2 9	1 1	9 8	5	0 2	1	4	8	5	6				
13	2 2	9 8 6 3	4 1	3 9	3 6	3 2	1 4	9 8	4	0 2	1	2	2	5	7				
14	0 1	9 8 4 9	4 2	4 0	3 9	3 4	1 8	9 8	7	0 2	1	6	8	5	6				
14	0 4	9 8 3 1	3 9	3 9	3 9	3 3	2 1	9 7	8	0 1	8	7	7	5	6				
14	0 7	9 7 9 8	4 2	4 1	4 0	3 6	2 6	9 7	8	0 3	8	7	7	0	0				
14	1 0	9 7 3 4	4 3	4 2	4 1	4 2	2 6	9 7	8	0 3	8	7	7	5	6				
14	1 3	9 6 7 8	4 6	4 5	4 6	3 6	2 8	9 6	8	0 3	8	7	7	5	6				
14	1 6	9 6 7 1	4 5	4 5	4 5	3 4	2 2	9 6	8	0 3	8	7	7	5	6				
14	1 9	9 6 5 7	4 4	4 4	4 3	3 4	2 2	9 5	8	0 3	8	7	7	5	6				
14	2 2	9 6 4 9	4 4	4 4	4 4	3 4	1 7	9 6	8	0 1	8	7	7	5	6				
15	0 1	9 6 4 5	4 4	4 5	4 3	3 4	1 2	9 5	8	0 3	8	7	7	5	6				
15	0 4	9 6 3 7	4 3	4 2	4 1	3 5	1 1	9 5	7	0 1	6	4	4	5	6				
15	0 7	9 6 3 0	4 4	4 3	4 2	3 4	1 3	9 7	5	0 2	1	5	8	5	6				
15	1 0	9 6 3 8	4 3	4 2	4 1	3 5	1 5	9 7	7	0 1	8	7	7	5	6				
15	1 3	9 6 5 3	4 2	4 1	4 1	3 3	2 1	9 8	6	0 2	8	8	8	4	5				
15	1 6	9 6 6 3	4 3	4 1	3 8	3 4	2 1	9 8	5	0 2	8	8	8	4	5				
15	1 9	9 6 6 3	4 3	4 1	3 9	3 4	1 9	9 7	8	0 2	8	8	8	4	5				
15	2 2	9 6 7 4	4 3	4 1	3 9	3 5	2 0	9 7	1	0 2	8	1	3	5	6				
16	0 1	9 6 9 3	4 3	4 1	4 0	3 5	2 5	9 7	4	0 2	8	4	8	4	5				
16	0 4	9 7 1 0	4 5	4 1	3 9	3 3	2 6	9 8	3	0 2	1	5	8	4	5				
16	0 7	9 7 2 1	4 4	4 3	4 1	3 4	2 5	9 8	4	0 2	1	5	8	4	5				
16	1 0	9 7 2 1	4 5	4 3	4 0	3 5	2 5	9 7	4	0 2	1	5	8	4	5				
16	1 3	9 7 1 9	4 6	4 4	4 0	3 3	2 6	9 7	5	0 2	8	4	8	4	5				
16	1 6	9 7 1 9	4 4	4 3	4 2	3 3	2 0	9 7	7	0 3	1	7	8	4	5				
16	1 9	9 7 2 1	4 3	4 2	4 1	3 3	2 1	9 8	1	0 2	8	4	8	4	5				
16	2 2	9 7 2 7	4 3	4 1	3 9	3 2	2 6	9 8	0	0 2	1	5	8	4	5				
17	0 1	9 7 4 6	4 2	4 1	4 0	3 2	2 1	9 8	3	0 2	8	4	8	4	5				
17	0 4	9 7 5 4	4 1	4 0	3 9	3 1	2 2	9 8	5	0 2	8	5	8	4	5				
17	0 7	9 7 8 1	4 2	4 1	4 0	3 2	2 8	9 8	7	0 2	8	5	8	4	5				
17	1 0	9 7 9 5	4 3	4 1	3 8	3 1	2 8	9 8	7	0 2	8	4	8	4	5				
17	1 3	9 7 9 5	4 4	4 2	4 0	3 1	2 6	9 8	6	0 2	1	5	8	4	5				
17	1 6	9 7 9 5	4 2	4 0	3 8	3 1	2 3	9 8	7	0 2	8	4	8	4	5				
17	1 9	9 7 9 2	3 9	3 9	3 9	3 0	2 6	9 7	8	0 1	8	8	8	9	4				
17	2 2	9 7 9 0	3 8	3 8	3 8	3 1	2 2	9 7	8	0 1	8	8	8	9	4				
18	0 1	9 7 7 7	4 1	4 0	3 9	3 1	2 3	9 8	8	0 2	8	8	8	9	4				
18	0 4	9 7 7 5	4 0	3 9	3 5	3 2	1 5	9 8	7	0 1	8	7	8	4	5				
18	0 7	9 7 8 0	4 2	4 0	3 7	2 9	1 3	9 8	6	0 2	8	5	8	5	6				
18	1 0	9 7 8 1	4 2	4 1	3 9	3 1	1 2	9 8	6	0 2	8	5	8	5	6				
18	1 3	9 7 7 5	4 2	4 1	4 0	3 2	1 6	9 8	8	0 3	2	5	8	5	6				
18	1 6	9 7 7 4	4 1	4 0	3 9	3 0	1 2	9 8	7	0 2	2	6	8	5	6				
18	1 9	9 7 7 5	4 0	3 9	3 8	2 7	0 4	9 8	3	0 2	1	2	8	5	6				
18	2 2	9 7 8 1	4 0	3 9	3 8	0 0	0 0	9 8	6	0 2	8	5	8	5	6				
19	0 1	9 7 8 4	3 9	3 8	3 5	0 0	0 0	9 8	6	0 2	1	5	8	5	6				
19	0 4	9 7 8 3	3 8	3 7	3 5	2 4	0 2	9 8	2	0 2	1	2	8	5	6				
19	0 7	9 7 9 0	3 9	3 8	3 7	3 0	1 7	9 8	4	0 3	1	2	8	5	7				
19	1 0	9 7 8 9	4 1	4 0	3 9	3 1	1 5	9 7	8	0 2	2	7	8	5	6				
19	1 3	9 7 9 1	4 2	4 0	3 7	2 9	1 3	9 8	7	0 2	2	5	8	5	6				
19	1 6	9 7 9 6	4 1	3 9	3 6	2 8	1 3	9 8	4	0 2	2	8	5	6	6				
19	1 9	9 8 1 7	3 8	3 8	3 8	2 6	0 6	9 8	3	0 2	2	8	3	8	5				
19	2 2	9 8 4 1	3 8	3 8	3 8	2 6	0 6	9 8	4	0 2	2	8	3	8	5				
20	0 1	9 8 7 8	3 9	3 8	3 5	1 9	0 6	9 8	2	0 2									

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

**MACQUARIE ISLAND
FEBRUARY 1949**

DAY	HOUR	STATION LEVEL PRESSURE	WIND		DEW POINT	DIRECTION	SPEED * x10	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	TYPE	CLOUD DIRECTION			MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST	SUNSHINE								
			DRY BULB °F	WET BULB °F										Oklas	WW	W	Oklas	C _L	C _M	C _H	LOW	MILES	DIRECTION * x10	SPEED Kts.	Hours				
21	0 1	00 2 8	4 1	3 9	5 5	3 0	0 8	9 8	8	0 3	1	7	5	6	2	8	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
21	0 4	00 1 7	4 0	3 9	5 8	3 2	0 8	9 7	8	6 3	6	7	6	4	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
21	0 7	00 0 7	4 1	4 0	4 0	0 0	0 0	9 7	8	6 3	6	3	6	4	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
21	1 0	00 0 3	4 2	4 2	4 2	3 3	0 1	9 8	8	0 1	6	5	5	5	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
21	1 3	00 0 0	4 3	4 1	3 9	2 6	0 7	9 7	7	0 2	2	7	5	4	2	6	6	6	6	6	6	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
21	1 6	00 0 5	4 3	4 1	3 8	2 6	1 3	9 7	7	0 2	5	7	8	4	2	6	6	6	6	6	6	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
21	1 9	00 2 4	4 1	4 0	3 7	1 8	1 4	9 8	4	0 1	8	4	8	4	2	5	5	5	5	5	5	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
21	2 2	00 4 1	4 1	3 9	3 6	1 9	0 4	9 8	7	0 2	8	7	8	4	2	5	5	5	5	5	5	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
22	0 1	00 4 7	3 8	3 6	3 2	2 5	0 1	9 8	8	0 3	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
22	0 4	00 4 5	4 0	3 7	3 2	2 7	1 0	9 8	7	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
22	0 7	00 5 6	4 1	3 9	3 6	2 9	1 1	9 8	8	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
22	1 0	00 5 8	4 2	4 0	3 5	3 1	1 3	9 8	8	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
22	1 3	00 6 2	4 4	4 1	3 8	3 1	1 0	9 8	8	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
22	1 6	00 6 4	4 5	4 2	3 8	3 0	0 9	9 8	4	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
22	1 9	00 8 2	4 3	4 0	3 7	3 1	0 5	9 8	6	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
22	2 2	00 8 6	4 0	3 9	3 8	0 0	0 0	9 8	1	0 1	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
23	0 1	00 7 9	3 9	3 8	3 7	0 0	0 0	9 8	1	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
23	0 4	00 7 3	4 0	3 8	3 5	2 7	0 3	9 8	3	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
23	0 7	00 5 4	4 2	4 2	3 4	3 0	1 7	9 8	6	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
23	1 0	00 2 7	3 9	3 9	3 4	2 5	0 5	9 8	8	0 3	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
23	1 3	99 9 6	4 2	4 2	4 0	3 1	2 8	9 7	8	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
23	1 6	99 7 9	4 3	4 2	4 1	3 7	2 1	9 7	8	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
23	1 9	99 8 3	4 2	4 2	4 2	2 7	1 6	9 7	8	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
23	2 2	99 7 9	4 2	4 1	4 0	2 7	1 8	9 7	8	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
24	0 1	99 6 2	4 3	4 2	4 2	2 9	1 4	9 7	8	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
24	0 4	99 4 0	4 2	4 2	4 2	3 0	2 1	9 7	8	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
24	0 7	99 0 7	4 4	4 4	4 4	4 4	3 1	2 9	9 7	8	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6
24	1 0	98 8 0	4 4	4 4	4 4	4 3	3 1	3 0	9 5	8	0 3	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6
24	1 3	98 4 6	4 4	4 4	4 4	3 1	2 9	9 5	8	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
24	1 6	98 3 7	4 5	4 2	4 1	2 9	3 0	9 7	7	0 1	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
24	1 9	98 5 7	4 1	3 8	3 5	2 7	3 9	9 7	7	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
24	2 2	99 0 0	4 0	3 7	5 1	2 6	3 1	9 8	4	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
25	0 1	99 5 7	3 7	3 4	2 9	2 5	1 9	9 8	3	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
25	0 4	99 7 2	3 7	3 5	3 1	2 5	1 6	9 8	6	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
25	0 7	99 9 9	3 8	3 5	3 1	2 6	2 1	9 8	7	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
25	1 0	0 0 0 7	4 3	3 9	3 2	2 7	1 7	9 8	8	0 3	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
25	1 3	99 7 9	4 2	3 9	3 4	3 1	2 2	9 8	8	0 3	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
25	1 6	99 3 2	4 2	4 1	4 0	3 3	3 1	9 8	8	0 3	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
25	1 9	98 7 8	4 4	4 4	4 4	4 4	3 2	3 2	9 4	8	0 3	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6
25	2 2	98 4 0	4 5	4 5	4 5	5 3	3 5	9 4	8	0 3	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
26	0 1	98 2 2	4 5	4 5	4 4	3 1	3 3	9 4	8	0 3	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
26	0 4	98 0 7	4 5	4 5	4 4	3 1	3 4	9 5	8	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6	
26	0 7	97 9 8	4 5	4 5	4 4	3 1	3 2	2 8	9 7	9	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6
26	1 0	97 9 4	4 5	4 4	4 2	3 0	3 0	2 6	9 6	8	0 2	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6
26	1 3	98 0 6	4 5	4 2	4 1	2 9	2 6	2 6	9 8	8	0 1	N	N	N	N	2	7	7	7	7	7	7	5	4 0	0 0 1 0	1 6 6	2 8	2 5	0 1 6
26	1 6	98																											

**RESULTS OF SURFACE OBSERVATIONS AT
MACQUARIE ISLAND
FOR THE MONTH OF MARCH 1949**

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF MARCH 1949																															
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	
		Mbs.	"F	"F	"F	"F	"F		"x10	Kts.		Oklas	ww	W	Oklas	C _L	h	C _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	DIRECTION	SPEED	Direction	Speed	
LST.																															
01	01	9 9 2 6	4 5	4 2	4 1	3 2	2 6	9 7	8	0	Q	2	4	4	6	3	2	7	5	6	6	6	6	6	6	6	6	6	6		
01	04	9 9 3 2	4 0	3 9	3 7	2 9	2 6	9 8	6	0	1	8	6	2	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
01	07	9 9 3 0	4 5	4 0	3 5	2 9	3 5	9 8	6	0	2	8	5	2	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
01	10	9 9 6 1	4 4	4 1	3 7	2 8	3 5	9 7	7	0	2	8	7	2	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
01	13	0 0 1 2	4 5	4 0	3 5	2 7	3 3	9 8	6	0	2	8	2	6	4	4	6	6	6	6	6	6	6	6	6	6	6	6	6		
01	15	0 0 3 1	4 3	4 1	3 7	2 8	2 6	9 8	5	0	2	8	4	4	4	6	6	0	6	6	6	6	6	6	6	6	6	6	6		
01	19	0 0 7 1	4 2	3 9	3 4	2 6	2 7	9 7	7	8	1	8	5	7	2	4	6	6	6	6	6	6	6	6	6	6	6	6	6		
01	2 2	0 1 0 1	4 1	3 9	3 5	2 7	2 6	9 8	1	0	1	8	1	5	4	0	0	0	6	6	6	6	6	6	6	6	6	6	6		
02	0 1	0 1 2 5	4 0	3 8	3 5	2 6	2 2	9 8	3	0	2	0	3	5	4	0	0	0	6	6	6	6	6	6	6	6	6	6	6		
02	0 4	0 1 4 4	3 9	3 8	3 6	2 6	1 1	9 8	6	0	3	8	6	2	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
02	0 7	0 1 6 5	4 2	3 8	3 6	2 8	0 4	9 8	6	0	3	1	6	5	4	7	5	6	0	6	6	6	6	6	6	6	6	6	6		
02	1 0	0 1 7 6	4 3	3 5	2 8	2 4	1 1	9 8	5	0	2	1	5	5	6	0	6	6	6	6	6	6	6	6	6	6	6	6	6		
02	1 3	0 1 8 5	4 4	4 0	3 6	2 8	2 9	0 9	9 8	7	0	3	2	7	5	6	0	6	6	6	6	6	6	6	6	6	6	6	6		
02	1 6	0 1 9 8	4 3	3 8	3 0	2 8	0 8	9 8	8	0	3	1	1	1	5	1	7	6	6	6	6	6	6	6	6	6	6	6	6		
02	1 9	0 1 9 3	4 2	3 9	3 4	3 1	0 7	9 8	8	0	2	2	0	0	9	2	6	6	6	6	6	6	6	6	6	6	6	6	6		
02	2 2	0 1 9 4	4 2	4 0	3 5	3 2	1 1	9 8	8	0	3	1	0	0	9	7	8	0	6	6	6	6	6	6	6	6	6	6	6		
03	0 1	0 1 8 3	4 3	4 2	4 1	3 4	1 1	9 8	8	0	2	2	2	5	4	7	8	8	8	8	8	8	8	8	8	8	8	8	8		
03	0 4	0 1 7 4	4 3	4 3	4 2	3 5	2 4	9 7	7	0	2	2	1	5	5	3	7	8	8	8	8	8	8	8	8	8	8	8	8		
03	0 7	0 1 5 9	4 3	4 3	4 2	3 4	2 5	9 7	8	0	2	2	2	1	6	6	3	2	8	8	8	8	8	8	8	8	8	8	8		
03	1 0	0 1 5 3	4 5	4 5	4 5	3 5	2 5	9 7	8	0	2	2	2	8	6	6	3	2	8	8	8	8	8	8	8	8	8	8	8		
03	1 3	0 1 4 1	4 5	4 5	4 5	3 5	2 6	9 7	8	0	2	2	2	8	6	6	3	2	8	8	8	8	8	8	8	8	8	8	8		
03	1 6	0 1 1 8	4 5	4 5	4 5	3 5	3 1	9 8	8	0	2	2	0	0	9	2	6	6	6	6	6	6	6	6	6	6	6	6	6		
03	1 9	0 0 7 8	4 5	4 5	4 5	3 4	3 3	9 4	8	0	4	5	6	8	6	0	0	0	8	8	8	8	8	8	8	8	8	8	8		
03	2 2	0 0 7 1	4 5	4 5	4 5	3 3	2 8	9 4	8	5	3	4	8	6	1	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
04	0 1	0 0 8 1	4 4	4 4	4 4	3 1	2 0	9 1	9	4	4	5	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04	0 4	0 0 9 4	4 4	4 4	4 4	3 1	2 1	9 1	9	4	4	5	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04	0 7	0 1 0 4	4 4	4 4	4 4	3 1	2 9	9 7	9	0	2	4	8	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04	1 0	0 0 9 2	4 4	4 4	4 4	3 4	3 4	9 1	9	4	5	4	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04	1 3	0 0 6 3	4 6	4 6	4 5	3 5	2 1	9 3	9	0	2	4	8	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04	1 6	0 0 3 6	4 6	4 6	4 5	3 5	2 0	9 1	9	4	3	6	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04	1 9	0 0 7 8	4 5	4 5	4 5	3 4	3 3	9 4	8	4	5	6	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04	2 2	0 0 7 1	4 5	4 5	4 5	3 3	2 8	9 4	8	5	3	4	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
05	0 1	0 0 9 5	4 5	4 5	4 5	3 5	2 2	9 2	9	4	5	4	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
05	0 4	0 0 7 4	4 5	4 5	4 5	3 5	3 1	9 6	8	0	2	2	8	8	6	6	2	2	8	8	8	8	8	8	8	8	8	8	8		
05	0 7	0 0 9 8	4 5	4 5	4 5	3 5	2 9	1 3	9 8	8	0	2	2	2	4	8	6	6	4	7	7	7	7	7	7	7	7	7	7		
05	1 0	0 0 9 2	4 3	4 3	4 3	3 0	3 0	1 2	9 8	8	0	2	2	2	4	8	6	6	4	7	7	7	7	7	7	7	7	7	7		
05	1 3	0 0 8 7	4 5	4 4	4 5	3 1	3 1	1 0	9 8	8	0	2	2	2	4	8	6	6	4	7	7	7	7	7	7	7	7	7	7		
05	1 6	0 0 7 6	4 4	4 4	4 5	3 3	1 2	9 8	7	0	3	2	5	5	5	5	3	3	6	6	6	6	6	6	6	6	6	6	6		
05	1 9	0 0 6 6	4 4	4 4	4 3	3 0	1 5	9 7	7	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
05	2 2	0 0 6 5	4 5	4 5	4 5	3 2	3 0	1 7	9 7	7	0	2	2	2	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
06	0 1	0 0 9 7 3	4 0	3 7	3 5	2 5	1 5	9 8	4	0	2	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
06	0 4	0 0 7 8	4 0	3 7	3 5	2 5	1 7	9 8	8	0	2	2	2	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
06	0 7	0 0 1 0 0	4 3	4 3	4 3	2 9	3 1	9 5	8	0	2	2	2	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
07	0 1	0 0 1 2 5	4 4	4 4	4 3	2 7	2 7	9 7	7	0	2	2	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
07	0 4	0 0 1 4 2	4 4	4 1	3 7	2 6	2 6	9 7	6	0	2	2	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
07	0 7	0 0 1 6 1	4 2	3 9	3 4	2 7	2 5	9 8	7	0	2	1	7	7	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
07	1 0	0 0 1 7 9	4 1	3 7	3 7	2 6	2 6	9 7	6	0	2	2	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
07	1 3	0 0 1 8 6	4 3	4 3	4 3	2 8	1 7	9 6	8	0	2	2	2	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
07	1 6	0 0 1 8 8	4 3	4 5	4 5	2 9	1 4	9 8	8	0	2	2	2	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
07	1 9	0 0 1 8 6	4 3	4 5	4 5	3 2	1 4	9 8	8	0	2	2	2	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
07	2 2	0 0 1 8 4	4 3	4 5	4 5	3 2	1 5	1 2	9 8	8	0	2	2	2	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
08	0 1	0 0 1 6 5	4 3	4 2	4 2	3 0	1 9	9 8	8	0	1	2	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
08	0 4	0 0 1 8 1	4 4	4 3	4 2	3 0	1 9	9 8	8</																						

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF MACQUARIE ISLAND
MARCH 1949**

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

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF																			MACQUARIE ISLAND MARCH 1949						
DAY	HOUR	STATION ELEVATION PRESSURE			WIND		DEW POINT	VISIBILITY	LOW CLOUD			CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST	SUNSHINE					
		DRY BULB	WET BULB	DIRECTION	SPEED	TYPE			AMOUNT	HEIGHT	MIDDLE	HIGH	MIDDLE	HIGH											
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
21	01	9 7 9 3	3 8	3 7	3 5	2 8	1 7	9 8	3	0 2	8	3	2	4											
21	04	9 7 9 3	5 7	5 7	3 6	2 8	1 3	9 6	7	0 5	8	5	3	4											
21	07	9 8 0 3	3 4	3 4	3 4	2 8	0 3	9 8	8	0 2	8	8	3	4											
21	10	9 8 1 5	4 0	3 9	3 6	2 6	0 7	9 8	5	0 2	1	3	9	5											
21	13	9 8 2 4	4 1	4 0	3 7	2 5	1 1	9 8	5	0 2	1	4	2	5											
21	16	9 8 3 6	4 0	3 9	3 8	2 5	1 0	9 8	5	0 2	1	5	3	4											
21	19	9 8 7 5	3 8	3 8	3 7	1 8	1 8	9 8	4	8 6	1	4	3	4											
21	22	9 9 0 3	3 8	3 7	5 4	1 9	1 6	9 8	8	0 2	8	8	2	4											
22	01	9 9 2 8	3 8	3 7	3 4	1 5	2 1	9 7	7	0 5	8	7	3	4											
22	04	9 9 6 1	5 7	3 5	3 1	1 7	2 0	9 8	0 2	8	8	3	2	4											
22	07	9 9 9 8	3 7	3 5	2 6	1 8	1 5	9 8	7	0 3	1	7	7	4											
22	10	0 0 3 6	5 7	3 4	2 8	1 8	1 5	9 8	7	0 2	2	2	7	6											
22	13	0 0 5 2	3 7	3 4	2 8	1 8	1 5	9 8	7	0 2	2	7	7	6											
22	16	0 0 6 2	5 7	3 4	2 7	1 5	0 9	9 8	5	0 2	8	5	8	5											
22	19	0 0 5 5	3 6	3 4	3 1	2 7	0 9	9 8	5	0 2	2	3	6	6											
22	22	0 0 5 6	3 7	3 6	3 5	2 8	1 3	9 8	5	0 1	1	6	7	4											
23	01	0 0 0 1	3 7	3 7	3 7	2 9	2 2	9 7	8	6 3	1	6	7	4											
23	04	9 9 4 5	4 0	4 0	4 0	3 1	2 0	9 7	8	6 3	6	7	3	4											
23	07	9 9 2 3	4 1	4 1	4 1	2 7	3 0	9 6	0 2	6	7	8	3	4											
23	10	9 9 3 1	4 1	3 8	3 4	2 7	2 8	9 6	8	8 6	2	8	8	4											
23	13	9 9 4 1	3 7	3 7	3 7	2 7	2 8	9 6	8	8 6	2	8	8	4											
23	16	9 9 3 2	3 9	3 6	3 1	2 6	3 2	9 8	5	0 2	8	5	2	4											
23	19	9 9 3 9	5 9	3 6	3 1	2 5	3 3	9 8	6	0 2	8	6	2	4											
23	22	9 9 4 3	3 7	3 4	2 9	2 6	3 1	9 8	6	0 2	8	6	2	4											
24	01	9 9 5 4	5 8	3 6	5 1	2 6	2 6	9 8	3	0 2	8	3	2	4											
24	04	9 9 5 2	3 7	3 5	3 2	2 6	2 6	9 8	6	0 2	1	6	5	4											
24	07	9 9 5 7	3 9	3 6	3 1	2 5	2 8	9 8	7	0 2	8	7	2	4											
24	10	9 9 5 4	3 6	3 5	5 7	2 4	2 2	9 8	8	8 6	8	8	2	4											
24	13	9 9 6 5	3 9	3 6	3 1	2 6	1 9	9 8	6	0 1	8	6	2	4											
24	16	9 9 6 2	3 7	3 5	3 1	2 5	1 3	9 7	8	6 3	2	5	7	2											
24	19	9 9 4 8	3 5	3 5	3 5	2 6	1 3	9 7	8	6 3	6	7	2	4											
24	22	9 9 2 8	5 7	3 5	3 6	2 6	1 3	9 8	8	0 2	6	6	8	4											
25	01	9 9 1 0	3 6	3 6	3 6	2 6	1 6	9 7	8	8 6	1	8	8	4											
25	04	9 9 8 5	3 6	3 6	3 6	2 7	1 3	9 7	8	8 6	1	8	8	4											
25	07	9 8 8 8	5 5	3 5	3 5	1 5	1 6	9 7	8	8 6	1	8	8	4											
25	10	9 9 0 5	5 4	3 4	5 5	2 0	0 8	9 8	5	8 6	1	4	3	4											
25	13	9 9 0 4	5 4	3 4	3 4	2 6	1 4	9 7	7	8 6	9	7	2	4											
25	16	9 9 0 5	5 7	3 5	3 1	2 3	0 6	9 8	6	0 2	8	6	2	5											
25	19	9 9 2 6	5 2	3 2	3 0	1 9	0 4	9 7	4	8 6	8	4	2	4											
25	22	9 9 2 8	5 7	3 5	3 6	2 6	2 3	0 6	9 8	6	0 2	6	6	8											
26	01	9 9 1 0	3 6	3 6	3 6	2 6	1 6	9 7	8	8 6	1	8	8	4											
26	04	9 9 8 5	3 6	3 6	3 6	2 7	1 3	9 7	8	8 6	1	8	8	4											
26	07	9 8 8 8	5 5	3 5	3 5	1 5	1 6	9 7	8	8 6	1	8	8	4											
26	10	0 0 4 0	3 5	3 2	2 6	1 9	1 9	9 8	7	0 2	8	7	2	4											
26	13	0 0 4 0	3 6	3 3	2 4	1 8	1 7	9 8	7	0 2	8	7	5	6											
26	16	0 0 1 0	3 7	3 5	2 6	1 8	1 2	9 8	7	0 2	8	7	5	6											
26	19	0 0 1 3	3 5	3 5	5 3	2 8	1 2	9 8	8	0 2	8	8	5	5											
26	22	0 0 1 2	3 8	3 7	3 6	2 7	1 9	9 7	7	0 2	8	7	8	4											
27	01	0 0 1 2	4 1	4 0	4 0	2 8	2 7	9 7	9	0 2	8	8	2	4											
27	04	0 0 1 2	4 2	4 1	4 1	2 7	2 5	9 6	8	0 2	8	8	2	4											
27	07	0 0 1 2	4 1	4 1	4 1	2 7	2 5	9 6	8	0 2	8	8	2	4											
27	10	0 0 1 2	4 2	4 2	4 1	2 8	2 5	9 7	9	0 2	8	8	2	4											
27	13	0 0 1 2	4 2	4 2	4 1	2 8	2 4	9 7	9	0 2	8	8	2	4											
27	16	0 0 1 9	4 3	4 2	4 1	2 8	2 3	9 7	9	0 2	8	8	2	4											
27	19	0 0 1 3	4 3	4 2	4 1	2 8	2 6	9 6	7	0 2	8	7	2	4											
27	22	0 0 1 0	4 3	4 2	4 1	2 8	2 9	9 6	7	0 2	8	7	2	4											
28	01	0 0 0 3	4 0	3 9	3 7	2 9	1 3	9 7	8	0 2	8	8	2	4											
28	04	0 0 0 6	3 9	3 9	3 9	0 2	0 3	9 6	8	5 3	2	8	5	3											
28	07	0 0 0 6	4 2	4 2	4 2	0 0	0 0	9 1	9	4 5	5	5	9	0											
28	10	0 0 0 7	4 3	4 2	4 2	3 2	1 9	9 4	8	5 3	4	2	5	5											
28	13	0 0 0 5	4 1																						

RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF

MACQUARIE ISLAND
MARCH 1949

DAY	HOUR	STATION ELEV. 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					TYPE	HEIGHT	MIDDLE CLOUD	HIGH CLOUD	LOW	MIDDLE	HIGH					DIRECTION	SPEED	
LST.	Mbs.	"F	"F	"F	*x10	Kts.	VV	Oktas	WW	W	Oldes	C _L	h	C _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	*x10	Kts.	Hours
3 1	0 1	9 9 9 2	4 0	3 8	3 6	3 0	2 8	9 8	5	0 2	8	5	8	5	7	7	7	7	7	7	7	5 7 7	1 8	3 8	0 1 0
3 1	0 4	9 9 7 8	4 1	4 0	3 9	3 0	2 5	9 8	4	0 2	1	4	8	5	7	7	7	7	7	7	7				
3 1	0 7	9 9 6 8	4 2	4 2	4 2	3 1	2 4	9 5	8	5 3	2	8	6	6	7	7	7	7	7	7	7				
3 1	1 0	9 9 5 8	4 2	4 2	4 0	3 1	3 3	9 5	8	5 3	5	8	6	6	7	7	7	7	7	7	7				
3 1	1 3	9 9 3 7	4 2	4 2	4 2	3 1	1 9	9 7	8	0 2	5	8	6	6	7	7	7	7	7	7	7				
3 1	1 6	9 9 2 9	4 2	4 2	4 2	2 9	1 8	9 6	8	6 3	2	8	7	2	7	6	6	6	6	6	6				
3 1	1 9	9 9 5 5	3 9	3 7	3 4	1 9	1 6	9 7	8	8 1	2	7	4	4	7	7	7	7	7	7	7				
3 1	2 2	9 9 7 6	3 7	3 5	3 0	1 8	1 8	9 8	8	0 2	2	8	7	2	7	6	6	6	6	6	6				

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF APRIL 1949																							
DAY	HOUR	STATION LEVEL PRESSURE	WIND			DEW POINT	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PASTER AMOUNT	TYPE	HEIGHT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION					
			DRY BULB	WET BULB	DIRECTION								LOW	MIDDLE	HIGH	LOW	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
01	01	99 9 5	3 6	3 3	2 7	1 8	2 1	8 0	5	0 2	2	5	2	4									
01	04	00 1 4	3 7	3 4	2 8	1 9	1 8	8 1	7	0 2	2	7	2	4									
01	07	00 4 1	3 8	3 5	2 9	1 8	1 9	8 1	4	0 2	2	4	6	4									
01	10	00 5 2	3 8	3 7	3 4	2 4	1 5	8 1	7	0 2	2	7	2	5									
01	13	00 3 2	3 9	3 8	3 6	2 8	2 8	8 1	8	0 2	2	6	4	5									
01	16	00 0 8	3 9	3 8	3 6	2 8	3 5	8 0	8	0 2	2	6	5	5									
01	19	99 7 7	4 0	4 0	4 0	3 0	2 8	8 0	8	5 0	5	6	6	2									
01	22	99 5 2	4 3	4 2	4 1	3 0	2 6	8 0	8	5 1	5	4	7	2									
02	01	99 5 3	4 2	4 2	4 2	2 7	2 5	0 6	8	5 1	5	8	7	2									
02	04	99 7 1	4 2	4 2	4 2	2 7	2 5	6 4	8	5 1	5	5	7	2									
02	07	99 8 9	4 2	4 2	4 2	2 7	2 8	0 6	8	1 0	4	8	6	0									
02	10	00 0 3	4 2	4 2	4 2	2 8	2 8	0 6	8	1 0	4	8	6	2									
02	13	99 9 1	4 3	4 3	4 2	2 9	2 8	2 4	8	2 1	6	5	7	2									
02	16	00 2 6	4 2	4 0	3 7	2 7	3 8	0 2	7	0 1	2	7	4	4									
02	19	00 6 9	4 3	4 5	4 2	2 7	3 0	0 2	3	0 1	2	3	4	4									
02	22	00 8 7	4 1	4 0	4 0	2 8	2 0	0 2	5	0 1	1	5	1	4									
03	01	00 8 7	4 1	4 0	3 9	2 9	2 4	0 2	5	0 1	1	5	1	5									
03	04	00 9 0	4 0	3 9	3 8	2 9	2 4	0 2	5	0 1	1	3	1	5									
03	07	00 6 0	4 1	4 1	4 1	3 3	1 6	0 2	8	4 2	4	8	6	0									
03	10	00 3 0	4 2	4 2	4 2	3 2	2 5	0 6	8	4 2	4	8	6	1									
03	13	99 9 4	4 4	4 4	4 4	3 2	2 5	0 4	8	5 9	5	8	7	2									
03	16	99 7 2	4 4	4 4	4 4	3 2	2 8	1 4	8	5 1	5	8	7	2									
03	19	99 5 2	4 4	4 4	4 4	3 1	2 8	1 4	8	2 0	5	8	7	2									
04	01	99 4 1	4 4	4 4	4 2	2 7	2 5	4 0	8	0 1	2	5	5	4									
04	04	99 4 8	4 1	4 0	3 9	2 9	2 5	4 0	7	0 2	2	7	5	4									
04	07	99 4 2	4 1	4 0	3 9	2 9	2 5	8 1	4	0 1	2	5	5	4									
04	10	99 4 1	4 1	4 1	4 0	3 1	2 3	8 2	2	0 1	1	1	1	4									
04	13	99 3 0	4 2	3 9	3 8	2 9	2 4	8 2	2	0 1	1	1	1	4									
04	16	99 3 4	4 1	3 8	3 8	2 8	2 6	8 2	4	0 1	1	3	2	4									
04	19	99 5 6	4 0	3 7	3 7	2 8	2 7	8 2	1	0 1	1	1	5	4									
04	22	99 7 8	3 8	3 6	3 2	2 7	3 1	8 2	2	2 5	8	2	2	4									
05	01	99 9 3	4 0	3 7	3 5	2 2	2 7	3 1	8 2	7	8 0	8	7	8	5								
05	04	99 8 4	3 9	3 7	3 5	2 9	3 1	8 2	6	0 2	2	6	8	5									
05	07	99 5 4	4 1	3 9	3 5	3 1	3 2	8 2	8	0 2	2	7	8	5									
05	10	99 0 9	4 2	4 1	4 0	3 2	3 2	8 2	8	5 0	2	7	7	4									
05	13	98 7 9	4 3	4 2	4 2	3 1	3 5	8 4	8	2 0	5	7	7	5									
05	16	98 4 9	4 3	4 2	4 1	3 1	3 5	8 0	8	5 2	5	8	7	3									
05	19	97 9 1	4 5	4 2	4 1	3 2	4 1	8 0	8	6 3	6	7	7	2									
05	22	97 5 7	4 5	4 2	4 1	3 0	4 0	2 0	8	6 1	6	7	7	2									
06	01	97 9 4	3 8	3 7	3 5	2 8	3 1	8 0	8	6 1	6	8	6	2									
06	04	98 4 1	3 9	3 8	3 6	2 7	3 5	8 2	6	8 1	8	6	6	2									
06	07	99 0 7	4 0	3 9	3 5	3 5	3 0	8 2	7	0 3	8	6	6	2									
06	10	99 5 8	4 0	3 8	3 5	3 5	2 8	8 1	8	2 0	5	7	7	2									
06	13	99 4 1	4 0	3 9	3 5	3 5	2 8	8 0	8	0 5	2	6	8	5									
06	16	99 3 3	4 1	3 7	3 5	3 5	2 8	8 0	8	0 2	2	6	8	5									
06	19	98 9 5	4 2	4 1	4 1	3 1	2 5	8 0	8	6 0	6	6	7	4									
06	22	98 5 2	4 4	4 4	4 4	3 4	2 5	8 0	8	6 1	6	8	7	4									
07	01	98 5 5	4 4	4 4	4 4	3 3	2 5	8 0	8	6 1	6	8	7	3									
07	04	97 7 5	4 5	4 5	4 5	3 5	3 0	8 0	8	5 9	5	8	7	3									
07	07	97 0 2	4 6	4 5	4 4	3 5	3 2	8 0	8	6 1	6	5	7	3									
07	10	97 1 2	4 4	4 3	4 2	3 5	3 2	8 0	8	0 1	2	2	2	4									
07	13	97 1 4	4 4	4 2	4 2	3 5	3 2	8 0	8	0 5	2	4	5	4									
07	16	97 1 5	4 3	4 1	3 8	3 5	3 2	8 0	8	0 5	2	3	5	4									
07	19	97 5 0	4 2	4 0	3 9	3 1	2 8	8 0	8	2 0	5	1	2	5									
07	22	97 7 4	4 1	3 9	3 6	3 1	2 9	8 0	8	2 0	5	1	1	5									
08	01	97 8 3	4 0	4 0	3 9	3 5	3 0	8 0	8	4 2	5	8	6	4									
08	04	97 7 5	4 2	4 1	4 0	3 2	2 3	8 0	8	4 0	5	1	4	8									
08	07	97 7 3	4 2	4 1	4 0	3 4	1 5	8 0	8	0 2	1	6	8	4									
08	10	97 4 9	4 1	4 1	4 1	3 5	1 9	8 0	8	6 0	5	3	6	1									
08	13	97 1 1	4 2	4 2	4 2	3 4	0 6	8 0	8	6 1	6	6	7	2									
08	16	96 7 5	4 2	4 2	4 1	0 1	1 4	4 0	8	0 5	6	1	7	1									
08	19	96 5 5	4 1	4 1	4 1	0 0	0 0	4 0	8	6 1	5	5	7	1									
08	22	96 5 5	4 0	4 0	3 9	2 3	0 3	4 0	8	6 1	6	5	7	1									
09	01	96 8 4	3 9	3 8	3 7	1 8	1 0	4 0	8	6 0	6	5	7	3									
09	04	97 4 1	3 7	3 5	3 0	2 4	1 2	8 0	8	0 5	6	4	5	4									
09	07	98 0 5	3 8	3 6	3 3	2 6	1 2	8 0	8	7 0</td													

**RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF APRIL 1949**

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	ANEROMETER	MAXIMUM GUST	DIRECTION	SPEED	SUNSHINE
															LOW	MIDDLE	HIGH								
11	01	9706	37	35	31	30	20	81	4	26	7	3	5	3	5	6	7	7	7	7	0011	520	20	48	045
11	04	9695	36	35	33	29	16	81	6	72	7	3	5	2	5	6	6	6	6	6					
11	07	9689	36	35	33	29	10	82	7	03	1	5	2	5	3	6	6	6	6	6					
11	10	9693	38	37	35	19	03	82	7	02	8	5	5	2	5	3	9	5	5	5					
11	13	9726	38	36	34	19	14	80	8	85	7	7	2	2	4	3	5	5	5	5					
11	16	9766	36	35	34	24	22	24	8	85	7	7	2	2	3	3	3	5	5	5					
11	19	9797	37	35	31	19	28	24	7	93	7	6	2	2	3	3	3	5	5	5					
11	22	9822	35	33	29	18	20	24	8	83	7	6	2	2	3	3	3	5	5	5					
12	01	9881	34	33	31	20	18	80	7	26	7	7	3	4	4	4	4	5	5	5					
12	04	9912	34	33	31	19	22	80	7	02	7	7	3	4	4	4	4	5	5	5					
12	07	9956	34	33	33	20	18	82	4	02	7	4	3	4	4	4	4	5	5	5					
12	10	9976	35	33	32	29	18	10	82	3	02	1	2	2	4	4	4	5	5	5					
12	13	9993	37	36	34	30	10	82	3	01	1	2	2	4	4	4	4	5	5	5					
12	16	0002	37	35	28	29	09	82	4	11	1	1	1	1	1	1	1	5	5	5					
12	19	9968	38	35	30	32	17	81	8	02	8	02	1	1	1	1	1	5	5	5					
12	22	9950	36	37	35	34	29	80	8	58	8	8	8	8	8	8	8	5	5	5					
15	01	9905	41	41	40	33	30	40	8	61	6	4	4	4	4	4	4	5	5	5					
15	04	9831	42	42	42	33	31	40	8	61	6	6	6	6	6	6	6	5	5	5					
13	07	9780	42	42	42	32	28	40	8	61	6	6	6	6	6	6	6	5	5	5					
13	10	9771	41	41	41	29	20	40	8	60	6	6	6	6	6	6	6	5	5	5					
13	13	9755	40	39	36	22	24	80	8	58	8	05	8	05	8	05	8	5	5	5					
13	16	9761	36	35	33	24	25	64	8	27	8	7	7	8	8	8	8	4	4	4					
13	19	9785	35	31	28	25	20	40	8	72	7	7	7	7	7	7	7	5	5	5					
13	22	9796	32	31	28	24	20	82	7	86	7	4	4	4	4	4	4	5	5	5					
14	01	9791	33	31	27	23	12	40	7	72	7	6	6	6	6	6	6	5	5	5					
14	04	9777	33	31	27	19	27	24	8	68	7	8	8	8	8	8	8	5	5	5					
14	07	9776	35	33	29	18	20	40	8	62	7	7	7	7	7	7	7	4	4	4					
14	10	9766	34	33	30	25	24	80	8	54	8	02	8	02	8	02	8	5	5	5					
14	13	9745	36	35	32	18	34	15	8	50	8	02	8	02	8	02	8	5	5	5					
14	16	9823	38	37	36	15	31	80	8	25	8	25	8	25	8	25	8	4	4	4					
14	19	9873	40	39	37	17	30	80	8	25	8	25	8	25	8	25	8	4	4	4					
14	22	9911	59	38	36	17	20	80	8	25	8	25	8	25	8	25	8	4	4	4					
15	01	9929	39	36	32	18	20	81	8	02	8	02	8	02	8	02	8	5	5	5					
15	04	9946	38	36	32	18	15	80	8	02	8	02	8	02	8	02	8	5	5	5					
15	07	9968	37	35	32	19	16	81	8	02	8	02	8	02	8	02	8	5	5	5					
15	10	9989	36	34	30	17	12	81	7	02	8	02	8	02	8	02	8	4	4	4					
15	13	9955	35	32	26	20	09	81	8	02	8	02	8	02	8	02	8	4	4	4					
15	16	0001	36	33	28	27	16	81	8	02	8	02	8	02	8	02	8	4	4	4					
15	19	0006	38	35	35	27	12	81	8	02	8	02	8	02	8	02	8	4	4	4					
15	22	9985	40	39	28	29	25	81	8	02	8	02	8	02	8	02	8	4	4	4					
16	01	9984	42	41	40	30	29	81	8	02	8	02	8	02	8	02	8	5	5	5					
16	04	9979	42	42	42	30	25	80	8	51	8	02	8	02	8	02	8	5	5	5					
16	07	9969	42	42	42	30	22	24	8	51	8	02	8	02	8	02	8	5	5	5					
16	10	9965	43	42	42	29	34	15	80	8	05	8	02	8	02	8	4	4	4	4					
16	13	9962	42	41	40	29	29	40	8	80	8	02	8	02	8	02	8	4	4	4					
16	16	9968	42	41	40	29	26	64	8	60	8	02	8	02	8	02	8	3	3	3					
16	19	9987	41	39	37	28	32	64	8	60	8	02	8	02	8	02	8	3	3	3					
16	22	0015	42	40	38	26	26	90	8	60	8	02	8	02	8	02	8	4	4	4					
17	01	0054	42	41	40	27	30	80	8	02	8	02	8	02	8	02	8	4	4	4					
17	04	0046	41	40	39	27	22	81	8	02	8	02	8	02	8	02	8	4	4	4					
17	10	0129	42	41	40	30	19	81	8	02	8	02	8	02	8	02	8	4	4	4					
17	13	0136	42	40	30	28	20	81	8	02	8	02	8	02	8	02	8	4	4	4					
17	16	0130	40	39	57	30	25	81	8	02	8	02	8	02	8	02	8	4	4	4					
17	19	0125	41	40	40	31	21	81	8	50	8	02	8	02	8	02	8	4	4	4					
17	22	0120	42	42	42	32	24	80	8	02	8	02	8	02	8	02	8	4	4	4					
18	01	0108	42	42	42	32	25	04	8	02	8	02	8	02	8	02	8	4	4	4					
18	04	0087	43	43	43	32	27	08	8	02	8	02	8	02	8	02	8	4	4	4					
18	07	0070	44	44	45	31	25	40	8	02	8	02	8	02	8	02	8	4	4	4					
18	10	0056	45	45	44	35	22	40	8	05	8	02	8	02	8	02	8	4	4	4					
18	13	0046	44	44	44	35	22	40	8	05	8	02	8	02	8	02	8	4	4	4					

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF APRIL 1949																								
DAY	HOUR	STATION ELEVATION PRESSURE		WIND			VISIBILITY	TOTAL CLOUD	PASTER WEATHER		LOW CLOUD	CLOUD DIRECTION			MAXIMUM TEMPERATURE			PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE		
		DRY BULB	WET BULB	DEW POINT	DIRECTION	SPEED			*x10	Kts.	VV	Oktas	WW	W	Oldest	C _L	h	C _M	C _H	LOW	MIDDLE	HIGH	DIRECTION	SPEED
21	0 1	0 0 3 1	3 9	3 5	2 8	3 1	2 0	8 2	7	0 3	7	7	8	6										
21	0 4	0 0 1 4	4 1	3 9	3 7	3 4	1 8	8 0	8	0 5	2	6	7	5	2	2	7	7	7	7	7			
21	0 7	9 9 8 4	4 5	4 2	4 2	3 4	1 7	4 0	8	6 0	2	4	7	4	2	2	6	7	4	6	7			
21	1 0	9 9 5 8	4 4	4 4	4 3	3 3	3 3	4 0	8	6 1	6	4	7	3	2	2	5	7	7	7	7			
21	1 3	9 9 6 9	4 1	4 1	4 1	3 0	1 7	8 1	8	0 2	5	8	2	5	2	2	5	7	7	7	7			
21	1 6	9 9 8 0	4 0	3 9	3 8	2 9	1 7	8 1	8	0 2	2	6	6	2	5	5	5	7	7	7	7			
21	1 9	9 9 9 4	4 0	3 8	3 5	2 2	8 0	1 4	8 1	5	0 1	2	4	5	5	5	5	7	6	6	6			
21	2 2	9 9 9 3	4 0	3 5	3 5	2 9	1 5	8 1	4	0 1	2	4	4	5	5	5	5	7	7	7	7			
22	0 1	9 9 7 9	4 0	3 7	3 2	3 1	2 1	8 1	5	0 1	2	5	5	5	5	5	5	7	6	6	6			
22	0 4	9 9 6 0	4 0	3 7	3 2	3 1	2 0	8 2	7	0 1	2	7	7	3	2	2	5	5	7	7	7			
22	0 7	9 9 5 1	4 0	3 8	3 4	3 0	2 0	8 2	7	0 2	2	2	5	5	5	5	7	7	7	7	7			
22	1 0	9 9 2 6	4 2	4 0	3 7	3 2	3 2	8 1	8	0 2	2	2	5	5	5	5	7	7	7	7	7			
22	1 3	9 8 9 1	4 2	4 1	4 0	3 5	3 3	8 0	8	6 0	6	6	7	3	2	2	5	7	7	7	7			
22	1 6	9 8 6 5	4 3	4 2	4 2	3 2	2 8	6 4	8	2 1	6	7	7	3	2	2	5	7	7	7	7			
22	1 9	9 8 8 3	4 0	3 8	3 4	2 9	2 4	8 1	3	0 1	8	3	8	5	5	5	5	7	7	7	7			
22	2 2	9 8 8 7	4 1	3 9	3 7	3 1	1 8	8 2	5	0 1	1	5	5	5	5	5	5	7	7	7	7			
23	0 1	9 8 7 9	4 1	3 9	3 7	3 2	2 0	8 2	2	0 1	1	5	5	5	5	5	5	7	7	7	7			
23	0 4	9 8 6 9	4 1	4 0	3 9	3 5	1 8	8 0	6	5 0	1	2	2	6	6	5	5	7	7	7	7			
23	0 7	9 8 7 4	4 1	4 1	3 9	3 5	1 7	8 1	8	0 2	2	2	5	5	5	5	7	7	7	7	7			
23	1 0	9 8 0 8	4 1	4 0	3 9	3 8	2 9	1 7	8 1	5	0 2	2	2	5	5	5	5	7	7	7	7			
23	1 3	9 9 0 8	4 1	3 9	3 8	2 9	1 5	8 1	5	0 1	2	4	5	5	5	5	7	7	7	7	7			
23	1 6	9 9 2 9	4 0	3 8	3 4	2 7	1 1	8 2	6	0 2	8	6	6	5	5	5	5	7	6	6	6			
23	1 9	9 9 5 4	3 8	3 5	3 0	2 5	0 6	8 2	4	0 2	1	4	5	5	5	5	7	6	6	6	6			
23	2 2	9 9 9 4	3 8	3 6	3 1	2 4	0 4	8 2	6	0 2	1	5	5	5	5	5	5	7	6	6	6			
24	0 1	9 9 9 4	3 7	3 5	3 1	1 9	0 8	8 2	5	0 2	5	5	5	5	5	5	5	7	6	6	6			
24	0 4	0 0 3 6	3 4	3 3	3 1	1 7	0 4	4 0	8	5 1	5	5	5	5	5	5	5	7	6	6	6			
24	0 7	0 0 5 8	3 4	3 3	3 3	1 9	0 3	2 4	8	8 5	5	5	5	5	5	5	5	7	6	6	6			
24	1 0	0 0 6 7	3 6	3 4	3 1	2 6	1 0	8 1	5	0 2	2	2	5	5	5	5	5	7	6	6	6			
24	1 3	0 0 6 6	4 0	3 8	3 4	2 7	1 8	8 1	7	0 2	2	2	5	5	5	5	5	7	6	6	6			
24	1 6	0 0 8 0	4 0	3 9	3 7	2 7	1 4	8 1	8	2 0	5	5	5	5	5	5	5	7	6	6	6			
24	1 9	0 0 9 9	3 9	3 9	3 9	2 8	1 2	8 0	8	5 0	5	5	5	5	5	5	5	7	6	6	6			
24	2 2	0 1 1 2	3 9	3 9	3 9	2 8	0 8	8 0	8	6 5	1	5	5	5	5	5	5	7	6	6	6			
25	0 1	0 1 1 7	4 0	4 0	3 9	2 9	1 3	8 0	8	5 1	5	5	5	5	5	5	5	7	6	6	6			
25	0 4	0 1 2 0	4 0	4 0	4 0	2 9	0 9	8 0	7	5 0	5	5	5	5	5	5	5	7	6	6	6			
25	0 7	0 1 2 6	4 1	4 1	4 1	3 0	1 1	0 1	8	4 6	5	5	5	5	5	5	5	7	6	6	6			
25	1 0	0 1 3 2	4 1	4 1	4 1	2 9	1 5	0 8	8	4 2	4	5	5	5	5	5	5	7	6	6	6			
25	1 3	0 1 3 2	4 3	4 3	4 3	2 8	1 0	4 0	7	0 2	1	5	5	5	5	5	5	7	6	6	6			
25	1 6	0 1 3 7	4 2	4 2	4 2	2 9	1 0	1 6	8	0 5	2	5	5	5	5	5	5	7	6	6	6			
25	1 9	0 1 5 3	4 0	4 0	4 0	2 4	1 0	6 4	5	0 5	5	5	5	5	5	5	5	7	6	6	6			
25	2 2	0 1 6 8	3 9	3 7	3 5	0 0	0 0	6 4	2	0 5	2	2	2	2	2	2	2	7	6	6	6			
26	0 1	0 1 6 7	3 8	3 7	3 5	0 0	0 0	8 0	3	0 2	2	2	2	2	2	2	2	7	6	6	6			
26	0 4	0 1 5 9	3 7	3 5	3 4	0 0	0 0	8 2	1	0 1	1	1	1	1	1	1	1	7	6	6	6			
26	0 7	0 1 3 8	3 9	3 8	3 7	3 2	2 3	0 8	8 2	6 0	2	1	5	5	5	5	5	7	6	6	6			
26	1 0	0 1 2 3	4 1	4 0	3 9	3 6	1 3	8 2	8	0 2	1	5	5	5	5	5	5	7	6	6	6			
26	1 3	0 0 7 4	4 4	4 4	4 4	3 2	2 6	0 6	8	6 2	4	5	5	5	5	5	5	7	6	6	6			
26	1 6	0 0 5 4	4 4	4 4	4 4	3 2	2 2	1 0	8 0	6 0	6	6	6	6	6	6	6	7	6	6	6			
26	1 9	0 0 5 5	4 1	4 1	4 0	2 7	1 8	4 0	8	6 1	6	6	6	6	6	6	6	7	6	6	6			
26	2 2	0 0 6 0	3 8	3 7	3 6	2 2	1 2	4 0	8	6 0	6	6	6	6	6	6	6	7	6	6	6			
27	0 1	0 0 7 6	3 7	3 4	3 4	2 3	0 9	8 2	3	0 1	1	5	5	5	5	5	5	7	6	6	6			
27	0 4	0 0 9 9	3 2	3 2	3 2	2 0	2 0	8 2	3	0 2	7	5	5	5	5	5	5	7	6	6	6			
27	0 7	0 1 2 1	3 5	3 5	3 5	2 7	2 7	8 2	4	2 2	7	4	4	4	4	4	4	7	6	6	6			
27	1 0	0 1 1 8	3 5	3 5	3 5	2 6	1 8	0 8	6	7 1	7	5	5	5	5	5	5	7	6	6	6			
27	1 3	0 1 2 3	3 4	3 1	2 5	2 6	1 8	0 8	6	8 0	5	7	7	7	7	7	7	7	6	6	6			
27	1 6	0 1 3 8	3 5	3 1	2 3	2 6	1 0	4 0	8	6 2	2	2	2	2	2	2	2	7	6	6	6			
27	1 9	0 1 5 5	3 6	3 3	2 6	2 2	1 2	4 0	8	6 1	6	6	6	6	6	6	6	7	6	6	6			
27	2 2	0 1 5 9	3 6	3 3	2 6	2 2	1 2	4 0	8	6 0	6	6	6	6	6	6	6	7	6	6	6			
28	0 1	0 1 6 0	3 7	3 4	3 4	2 7	2 8	8 0	8	8 0	7	8	8	8	8	8	8	7	6	6	6			
28	0 4	0 1 5 6	3 7	3 4	3 2	2 7	3 0	4 0	8	8 5	7	8	8	8	8	8	8	7	6	6	6			
28	0 7	0 1 4 7	3 9	3 6	3 1	2 7	3 0	4 0	8	8 2	6	5	5	5	5	5	5	7	6	6	6			

**RESULTS OF SURFACE OBSERVATIONS AT
MACQUARIE ISLAND
FOR THE MONTH OF MAY 1949**

Day	Hour	Station	Sea 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				
							Direction	Speed						Low	Middle	High	Low	Middle	High	Direction	Speed				
LST.	Mbs.	°F	°F	°F	°F	"x10	Kts.	VV	Odds	WW	W	Odds	C _L	h	C _M	C _H	C _L	C _M	C _H	Points	Miles	"x10	Kts.	Hours	
01	01	0103	44	44	44	31	19	40	8	05	2	8	7	2	7	7	7	7	7	7	7	582	34	42	002
01	04	0100	45	44	44	31	18	40	8	05	2	8	7	4	7	3	2	7	7	7	7				
01	07	0091	45	44	44	32	22	40	8	05	2	2	3	7	3	2	7	7	6	6	6				
01	10	0095	45	45	45	31	20	40	8	05	2	9	7	3	2	7	7	6	6	6	6				
01	13	0089	45	45	45	32	15	32	8	05	2	2	9	7	3	2	7	7	6	6	6				
01	16	0061	46	45	44	32	31	80	8	05	2	1	1	7	2	2	7	7	6	6	6				
01	19	0057	46	45	44	32	29	81	8	05	1	0	0	9	7	7	0	0	0	0	0				
02	01	0057	46	45	44	32	31	81	8	05	1	3	5	4	0	0	0	0	0	0	0	47	44	0000	
02	04	0045	45	45	45	31	20	01	8	46	4	8	5	2	7	7	7	7	7	7	7				
02	07	0037	45	45	45	33	30	01	8	44	4	8	5	2	7	7	7	7	7	7	7				
02	10	0057	45	45	45	32	28	12	8	05	4	8	6	2	7	7	7	7	7	7	7				
02	13	0045	45	46	44	32	22	40	8	05	2	7	7	3	2	2	7	7	7	7	7				
02	16	0044	44	44	44	42	31	20	8	05	2	5	5	2	7	7	2	7	7	7	7				
02	19	0049	44	44	44	42	31	18	40	8	20	5	7	7	2	2	2	2	2	2	2				
02	22	0047	43	43	43	31	17	40	8	50	5	8	7	2	2	2	2	2	2	2	2				
03	01	0045	43	43	43	30	15	40	8	51	5	8	7	3	2	2	2	2	2	2	2				
03	04	0054	43	43	42	30	19	64	6	05	5	6	5	4	2	2	2	2	2	2	2				
03	07	0069	43	43	42	31	18	81	8	05	5	8	5	4	2	2	2	2	2	2	2				
03	10	0097	44	43	42	32	27	81	6	05	2	6	5	4	2	2	2	2	2	2	2				
03	13	0051	43	42	41	31	15	80	8	61	6	3	5	4	2	2	2	2	2	2	2				
03	16	0043	41	38	35	25	05	80	8	60	6	5	7	4	2	2	2	2	2	2	2				
03	19	0056	35	35	34	00	02	24	8	61	6	6	7	2	2	2	2	2	2	2	2				
03	22	0065	39	38	37	30	12	81	5	16	6	5	8	4	2	2	2	2	2	2	2				
04	01	0073	40	38	34	30	20	81	3	16	9	5	8	4	0	0	0	0	0	0	0	34	40	0009	524
04	04	0072	41	39	36	31	22	81	3	01	8	3	4	0	0	0	0	0	0	0	0				
04	07	0073	41	38	36	29	28	81	7	02	2	7	8	4	2	2	2	2	2	2	2				
04	10	0109	39	37	33	27	21	81	7	02	2	7	3	4	2	2	2	2	2	2	2				
04	13	0132	38	37	35	27	24	82	7	25	9	6	2	2	5	5	5	5	5	5	5				
04	16	0157	39	36	31	27	20	80	7	80	8	7	2	2	5	5	5	5	5	5	5				
04	19	0168	37	35	30	28	09	81	7	01	8	4	7	5	5	5	5	5	5	5	5				
04	22	0186	36	35	34	28	12	81	7	02	2	7	7	5	5	5	5	5	5	5	5				
05	01	0187	39	38	37	27	20	81	7	81	2	7	7	5	5	5	5	5	5	5	5				
05	04	0188	38	36	32	29	19	81	6	02	2	6	7	5	5	5	5	5	5	5	5				
05	07	0184	39	37	34	31	18	82	4	25	8	3	4	5	5	5	5	5	5	5	5				
05	10	0180	40	37	35	31	22	82	5	25	8	5	7	5	5	5	5	5	5	5	5				
05	13	0163	41	38	34	31	28	82	4	02	2	8	5	5	5	5	5	5	5	5	5				
05	16	0150	41	39	37	30	30	82	5	25	8	5	8	5	5	5	5	5	5	5	5				
05	19	0144	42	42	40	31	30	81	6	80	8	6	8	4	0	0	0	0	0	0	0				
06	02	0147	41	41	41	30	23	80	8	80	8	8	8	4	0	0	0	0	0	0	0				
06	05	0153	40	39	38	29	17	81	5	01	1	5	5	4	4	4	4	4	4	4	4				
06	08	0146	39	39	37	29	21	81	5	01	1	5	5	4	4	4	4	4	4	4	4				
06	07	0123	40	39	38	28	21	81	8	02	2	8	5	5	5	5	5	5	5	5	5				
06	10	0099	41	40	39	32	35	81	8	50	5	8	6	6	4	4	4	4	4	4	4				
06	13	0063	42	42	40	37	32	35	81	8	20	5	8	6	4	4	4	4	4	4	4				
06	16	0033	42	42	40	37	32	42	81	8	18	2	9	5	5	5	5	5	5	5	5				
06	19	0001	42	42	40	37	32	37	81	8	05	2	2	8	5	5	5	5	5	5	5				
06	22	0957	42	41	40	32	25	25	80	7	05	2	7	5	5	5	5	5	5	5	5				
07	01	9991	37	35	35	35	25	25	80	8	68	8	8	8	4	4	4	4	4	4	4				
07	04	9997	39	39	35	28	28	28	81	3	05	8	3	5	5	5	5	5	5	5	5				
07	07	0007	38	38	35	30	28	20	81	5	02	1	4	4	4	4	4	4	4	4	4				
07	10	0026	37	37	35	31	29	19	81	7	02	1	4	4	4	4	4	4	4	4	4				
07	13	0041	37	37	34	29	28	17	81	8	16	8	5	7	5	5	5	5	5	5	5				
07	16	0059	36	36	33	27	23	10	82	6	02	2	9	5	5	5	5	5	5	5	5				
07	19	0092	35	35	32	29	20	07	82	1	01	1	1	1	1	1	1	1	1	1	1				
08	01	0114	36	36	32	24	21	08	81	7	03	7	7	7	7	7	7	7	7	7	7				
08	04	0111	35	35	32	26	18	06	82	8	02	2	8	8	8	8	8	8	8	8	8				
08	07	0092	37	37	34	28	30	20	82	8	02	2	8	8	8	8	8	8	8	8	8				
08	10	0058	37	37	34	29	32	29	81	8	02	2	8	8	8	8	8	8	8	8	8				
08	13	0029	35	39	36	32	33	33	81	8	05	2	8	8	8	8	8	8	8	8	8				
08	16	9947	38	38	37	34	36	80	8	61	6	8	6	6	4	4	4	4	4	4	4				
08	19	9905	42	41	41	33	32	64	8	61	6	8	7	7	4	4	4	4	4	4	4				
08	22	9924	38	37	35	25	12	81	7	20	6	7	7	4	4	4	4	4	4	4	4				
09	01	9954	35	35	33	33	25	18	40	8	85	7	8	8	5	5	5	5	5	5	5				
09	04	9961	35	36	33	26	23	10	81	8	26	7	8	8	5	5	5	5	5	5	5				
09	07	9992	35	35	34	24	12	81	3	01	7	3	4	4	4	4	4	4	4	4	4				
09	10	9996	35	35	33	28	23	80	7	85	7	7	4	4	4	4	4	4	4	4	4				
09	13	9998	35	34	30	28	08	80	6	26	7	6	7	4	4	4									

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF MAY 1949																															
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				
			DIRECTION	SPEED	MM.	"F	"F	"x10		Kts.	VV		Oktas	WW	W	Oktas	C _L	h	CM	CH	CL	CM	CH	"F	"F	Points	Miles	DIRECTION	SPEED		
LST.	Mbs.																											"x10	Kts.	Hours	
11	0 1	0 0 8 3	5 8	3 6	3 7	3 2	2 7	8 0	8	5 1	5	8	7	4	2	2	7	8	6	5	5	5	0	0	0	0	0	0	0		
11	0 4	0 0 3 3	4 0	4 0	4 0	3 3	2 9	2 0	8	6 1	6	7	7	2	2	2	7	8	6	5	5	5	0	0	0	0	0	0	0		
11	0 7	0 0 5 6	3 9	3 6	3 7	2 7	2 4	8 0	8	0 5	6	8	8	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	0	
11	1 0	0 1 1 0	3 9	3 5	2 8	2 8	1 5	8 1	5	0 1	1	5	4	4	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	
11	1 5	0 1 3 4	3 8	3 6	3 3	2 6	2 0	8 1	8	8 5	2	8	8	4	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	
11	1 6	0 1 6 2	3 9	3 5	2 8	2 7	2 1	8 0	1	0 5	1	1	4	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	0	
11	1 9	0 1 8 9	3 9	3 7	3 1	2 7	1 9	8 0	4	0 5	1	4	4	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	0	
11	2 2	0 1 9 1	4 0	3 8	3 6	2 9	1 6	8 0	3	0 5	1	3	4	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	0	
12	0 1	0 1 9 0	4 0	3 9	3 7	2 9	2 3	8 0	2	0 5	1	2	4	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	0	
12	0 4	0 1 8 8	4 1	3 8	3 3	2 9	2 6	5 4	5	0 5	1	5	4	4	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	
12	0 7	0 1 8 9	4 1	3 9	3 6	2 9	2 6	8 0	7	0 5	2	7	4	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	0	
12	1 0	0 1 7 7	4 1	3 9	3 6	2 8	2 8	8 1	8	0 5	2	3	6	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	0	
12	1 3	0 1 6 4	4 1	3 9	3 4	2 9	2 9	8 1	4	1 5	6	2	8	8	6	6	6	6	6	6	6	6	6	0	0	0	0	0	0	0	
12	1 6	0 1 5 2	4 1	3 9	3 6	3 1	2 8	8 1	8	1 5	2	8	8	4	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	
12	1 9	0 1 3 6	4 1	3 8	3 5	3 0	3 3	R 1	7	0 5	6	2	2	4	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	
12	2 2	0 1 3 1	4 1	3 9	3 8	3 1	2 7	R 1	7	0 5	6	1	2	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	
13	0 1	0 1 2 4	4 1	4 0	3 9	3 1	3 0	8 1	7	8 0	8	7	8	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	0	
13	0 4	0 1 2 0	4 1	4 0	3 9	3 1	2 6	8 0	7	0 5	2	7	8	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	0	
13	0 7	0 1 2 9	4 1	4 0	3 9	3 1	1 8	8 0	7	0 5	2	7	8	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	0	
13	1 0	0 1 3 4	4 1	4 1	4 0	3 2	2 1	8 1	8	0 5	2	8	8	6	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	
13	1 3	0 1 2 9	4 2	4 1	4 0	3 1	2 0	8 1	8	0 2	2	8	8	6	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	
13	1 6	0 1 2 6	4 1	4 1	4 0	3 2	2 0	8 1	8	0 2	1	7	5	4	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	
13	1 9	0 1 2 3	4 2	4 1	4 0	3 0	1 8	8 1	7	0 5	1	7	8	4	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	
13	2 2	0 1 2 3	4 2	4 1	4 0	3 2	1 9	8 2	7	0 2	1	2	5	4	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	0	
14	0 1	0 1 0 7	4 2	4 2	4 2	3 4	2 3	1 6	8	5 0	2	8	7	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	
14	0 4	0 1 0 0	4 3	4 3	4 3	3 2	2 4	1 6	8	0 5	5	8	8	6	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	
14	0 7	0 1 1 5	4 3	4 3	4 3	3 2	2 2	2 4	8	0 5	5	8	8	6	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	
14	1 0	0 1 3 0	4 2	4 2	4 2	3 1	1 9	4 0	8	0 5	5	8	8	6	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	
14	1 3	0 1 5 5	4 3	4 3	4 3	3 2	1 9	4 0	8	0 5	5	8	8	6	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	
14	1 6	0 1 3 5	4 3	4 3	4 3	3 2	1 9	4 0	8	0 5	5	8	8	6	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	
14	1 9	0 1 3 6	4 3	4 3	4 3	3 2	1 9	4 0	8	0 5	5	8	8	6	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	
14	2 2	0 1 2 6	4 4	4 4	4 4	3 4	2 3	1 6	8	0 5	5	8	8	6	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	
15	0 1	0 1 1 8	4 4	4 4	4 4	3 3	2 9	2 9	1 6	8	0 5	2	8	8	6	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0
15	0 4	0 1 1 7	4 3	4 3	4 3	3 2	2 9	3 2	3 2	8	0 5	2	8	8	6	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0
15	0 7	0 1 1 3	4 4	4 4	4 4	3 4	2 7	2 7	1 6	8	0 5	2	8	8	6	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0
15	1 0	0 0 9 6	4 4	4 4	4 4	3 4	2 5	2 5	0 8	8	1 0	2	8	8	6	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0
15	1 3	0 0 8 6	4 4	4 4	4 4	3 4	2 4	2 4	0 1	8	9	4 3	4	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	
15	1 6	0 0 7 7	4 4	4 4	4 4	3 4	1 9	0 1	9	9	4 3	4	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	
15	1 9	0 0 5 2	4 5	4 5	4 5	3 5	2 9	2 7	3 2	0 4	8	6 5	5	8	9	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	
16	0 1	0 0 2 8	4 5	4 5	4 5	3 5	2 9	2 6	1 5	8	2 0	6	8	8	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	
16	0 4	0 0 2 8	4 5	4 5	4 5	3 5	2 9	2 6	1 5	8	2 0	6	8	8	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	
16	0 7	0 0 1 1	4 0	4 0	4 0	3 9	3 6	2 8	1 5	8	2 0	6	8	8	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	
16	1 0	0 0 0 4	4 1	4 1	4 1	3 9	3 6	2 9	8 0	8	0 3	2	8	8	6	5	7	5	7	5	7	5	7	0	0	0	0	0	0	0	
16	1 3	0 0 0 4	4 0	3 9	3 6	3 1	2 2	8 1	8	8 0	8	7	8	4	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	
16	1 6	0 0 0 4	4 0	3 9	3 6	3 4	3 0	8 0	8	0 5	2	7	8	4	2	2	2	2													

**RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF MAY 1949**

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF																			MACQUARIE ISLAND 1949							
DAY	HOUR	STATION LEVEL PRESSURE	WIND		DEW POINT	DIRECTION	SPEED	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	LOW CLOUD		CLOUD DIRECTION	HIGH CLOUD	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE					
			DRY BULB	WET BULB							AMOUNT	TYPE	HEIGHT	MIDDLE	LOW	MIDDLE	HIGH	DIRECTION	SPEED							
	L.S.T.	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	Anemometer	DIRECTION	SPEED	Sunshine
																							Miles	*x10	Kts.	Hours
5 1	0 1	0 1 6 1	4 1	4 0	3 9	3 1	1 7	2 4	8	0 2	8	0 2	8	7	3	7	7	7	7	4 2	3 9	0 0 0 1	5 6 0	3 1	3 3	0 0 0
5 1	0 4	0 1 4 1	4 1	4 1	4 0	3 1	1 7	4 0	8	0 2	8	0 2	8	7	4	7	7	7	7							
5 1	0 7	0 1 3 4	4 0	4 0	3 9	3 0	2 4	6 4	8	0 5	8	0 5	8	7	3	7	7	7	7							
5 1	1 0	0 1 2 9	4 0	4 0	3 9	3 0	2 5	6 4	8	0 5	8	0 5	8	7	3	7	7	7	7							
5 1	1 3	0 1 2 2	4 0	4 0	4 0	3 0	1 9	0 4	8	5 0	8	5 0	8	7	2	7	7	7	7							
5 1	1 6	0 1 1 6	4 0	4 0	4 0	3 1	1 6	0 4	8	5 1	8	5 1	8	7	2	7	7	7	7							
5 1	1 9	0 1 0 8	4 1	4 1	4 1	3 1	1 6	0 4	8	5 2	8	5 2	8	7	2	7	7	7	7							
5 1	2 2	0 0 9 7	4 1	4 1	4 1	3 2	1 7	0 8	8	1 0	8	1 0	8	7	3	7	7	7	7							

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF MACQUARIE ISLAND
JUNE 1949**

DAY	HOUR	STATION PRESSURE	DRY BULB		WET BULB		DEW POINT °F	DIRECTION °x10	WIND Kts.	VISIBILITY VV	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	TYPE	HEIGHT ft.	CLOUD DIRECTION			MAXIMUM TEMPERATURE °F	MINIMUM TEMPERATURE °F	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE Hours		
			Mbs	"F	"F	"F					Oktas	Ww	W	Oktas	C _L	C _M	C _H	C _L	C _M	C _H				DIRECTION	SPEED Kts.			
01	01	00 800	40	40	40	40	32	2	20	24	8	05	2	8	7	5	7	7	7	7	7	7	7	7	7	7	002	
01	04	00 600	41	41	41	41	32	2	19	01	50	5	8	7	2	2	2	2	2	2	2	2	2	2	2	2	2	002
01	07	00 410	41	41	41	41	32	2	25	08	8	10	4	8	7	2	2	2	2	2	2	2	2	2	2	2	2	002
01	10	00 280	41	41	41	41	32	2	24	80	8	50	5	8	7	2	2	2	2	2	2	2	2	2	2	2	2	002
01	13	00 080	40	40	40	40	32	2	21	80	8	02	2	6	8	3	2	2	2	2	2	2	2	2	2	2	2	002
01	16	99 950	41	41	41	41	32	1	17	81	8	02	2	8	8	3	2	2	2	2	2	2	2	2	2	2	2	002
01	19	99 590	41	41	41	41	33	1	17	24	8	60	6	8	7	2	2	2	2	2	2	2	2	2	2	2	2	002
01	22	99 440	41	40	39	39	32	2	23	24	8	20	5	8	7	2	2	2	2	2	2	2	2	2	2	2	2	002
02	01	99 680	59	58	58	58	30	0	30	80	8	02	2	8	7	2	2	2	2	2	2	2	2	2	2	2	2	002
02	04	00 120	54	54	54	54	26	1	17	80	8	60	6	8	6	2	2	2	2	2	2	2	2	2	2	2	2	002
02	07	00 510	55	55	55	55	29	0	22	81	7	02	7	6	8	5	5	5	5	5	5	5	5	5	5	5	5	002
02	10	00 320	53	53	52	51	28	2	23	64	8	26	7	7	2	4	4	4	4	4	4	4	4	4	4	4	4	002
02	13	00 080	35	35	34	34	29	31	17	64	6	86	7	6	3	4	4	4	4	4	4	4	4	4	4	4	4	002
02	16	00 130	56	56	56	56	25	2	33	64	8	86	7	8	5	4	4	4	4	4	4	4	4	4	4	4	4	002
02	19	00 360	55	55	55	55	28	2	23	80	8	15	7	8	5	4	4	4	4	4	4	4	4	4	4	4	4	002
02	22	00 500	54	54	54	54	26	2	29	80	7	02	7	7	3	4	4	4	4	4	4	4	4	4	4	4	4	002
03	01	00 550	54	54	54	54	27	2	29	81	4	01	2	4	8	4	4	4	4	4	4	4	4	4	4	4	4	002
03	04	00 550	55	55	55	55	28	2	29	81	7	03	2	7	8	5	5	5	5	5	5	5	5	5	5	5	5	002
03	07	00 440	55	55	55	55	28	2	27	30	80	8	85	7	8	8	5	5	5	5	5	5	5	5	5	5	5	002
03	10	00 510	57	57	57	57	27	2	35	80	8	83	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5	002
03	13	00 170	58	58	58	58	27	2	31	81	8	23	7	5	8	5	5	5	5	5	5	5	5	5	5	5	5	002
03	16	00 060	58	58	58	58	27	2	31	81	8	80	8	8	8	5	5	5	5	5	5	5	5	5	5	5	5	002
03	19	99 950	57	57	57	57	27	2	31	81	8	25	8	5	8	5	5	5	5	5	5	5	5	5	5	5	002	
03	22	99 890	56	56	56	56	28	2	29	81	7	02	7	7	3	4	4	4	4	4	4	4	4	4	4	4	4	002
04	01	99 880	57	57	57	57	28	2	26	81	7	02	7	7	3	4	4	4	4	4	4	4	4	4	4	4	4	002
04	04	99 880	56	56	56	56	27	2	27	81	8	80	8	8	8	5	5	5	5	5	5	5	5	5	5	5	5	002
04	07	00 090	56	56	56	56	27	2	27	81	8	26	7	7	8	5	5	5	5	5	5	5	5	5	5	5	5	002
04	10	00 470	56	56	56	56	26	2	26	82	8	02	2	2	8	5	5	5	5	5	5	5	5	5	5	5	5	002
04	13	00 580	56	56	56	56	27	2	27	82	8	02	2	2	8	5	5	5	5	5	5	5	5	5	5	5	5	002
04	16	00 760	57	57	57	57	27	2	29	81	8	02	2	2	8	4	4	4	4	4	4	4	4	4	4	4	4	002
04	19	00 750	57	57	57	57	27	2	27	81	7	02	2	2	7	8	4	4	4	4	4	4	4	4	4	4	4	002
04	22	00 760	57	57	57	57	27	2	27	81	7	02	2	2	7	8	4	4	4	4	4	4	4	4	4	4	4	002
05	01	00 860	58	58	58	58	27	2	24	81	8	03	2	8	5	4	4	4	4	4	4	4	4	4	4	4	4	002
05	04	00 800	40	40	40	40	20	2	20	64	8	60	6	8	7	5	5	5	5	5	5	5	5	5	5	5	5	002
05	07	00 091	41	41	41	41	28	2	22	16	81	8	50	5	8	7	4	4	4	4	4	4	4	4	4	4	4	002
05	10	00 880	41	41	41	41	28	2	26	40	8	10	2	8	7	4	4	4	4	4	4	4	4	4	4	4	4	002
05	13	00 850	41	40	39	28	28	2	28	16	81	8	50	5	8	7	4	4	4	4	4	4	4	4	4	4	002	
05	16	00 760	41	40	39	28	28	2	30	40	8	02	2	2	8	4	4	4	4	4	4	4	4	4	4	4	4	002
05	19	00 750	41	41	40	39	27	2	31	64	8	05	2	8	6	4	4	4	4	4	4	4	4	4	4	4	4	002
05	22	00 760	40	40	40	40	28	2	28	31	81	8	51	5	8	8	6	6	6	6	6	6	6	6	6	6	002	
06	01	00 710	40	40	38	35	28	2	28	24	8	50	5	8	7	5	5	5	5	5	5	5	5	5	5	5	5	002
06	04	00 700	58	57	56	56	27	2	24	24	8	51	5	8	7	5	5	5	5	5	5	5	5	5	5	5	5	002
06	07	00 660	58	58	58	58	27	2	24	40	8	50	5	8	7	5	5	5	5	5	5	5	5	5	5	5	5	002
06	10	00 680	58	58	58	58	27	2	24	40	8	50	5	8	7	5	5	5	5	5	5	5	5	5	5	5	5	002
06	13	00 650	58	57	57	57	27	2	24	40	8	50	5	8	7	5	5	5	5	5	5	5	5	5	5	5	002	
06	16	00 670	40	40	40	40	27	2	24	15	24	8	50	5	8	7	5	5	5	5	5	5	5	5	5	5	002	
06	19	00 570	40	40	40	40	29	2	29	15	24	8	50	5	8	7	5	5	5	5	5	5	5	5	5	5	002	
06	22	00 440	40	40	40	40	29	2	29	13	32	8	50	5	8	7	5	5	5	5	5	5	5	5	5	5	002	
07	01	00 640	40	40	40	40	27	2	24	80	8	50	5	8	7	5	5	5	5	5	5	5	5	5	5	5	002	
07	04	00 640	40	40	40	40	27	2	24	09	01	8	51	5	8	7	5	5	5	5	5	5	5	5	5	5	002	
07	07	00 650	5																									

**RESULTS OF SURFACE OBSERVATIONS AT
MACQUARIE ISLAND
FOR THE MONTH OF JUNE 1949**

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF													MACQUARIE ISLAND 1949										
DAY	HOUR	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		
		DIRECTION	SPEED				Kts.	*x10		Oktas	WW	W	Oktas	C _L	h	MIDDLE CLOUD	HIGH CLOUD	LOW	MIDDLE	HIGH	DIRECTION	SPEED	
1	0 1	0 0 2 6	3 7	3 5	2 9	2 9	1 9	8 1	7	0 5	2	0	0	9	1	0	6	7	7	7	7	7	7
1	0 4	9 9 9 4	5 7	3 7	3 2	1 9	2 4	8	6 1	6	6	8	7	7	2	2	3	3	3	7	7	7	7
1	0 7	9 9 6 4	4 0	3 9	3 9	3 1	2 3	6 4	8	0 5	6	8	7	7	8	3	3	3	3	7	7	7	7
1	1 0	9 9 2 8	4 1	4 0	3 9	3 2	2 6	6 4	8	6 0	6	6	7	8	3	3	3	3	3	7	7	7	7
1	1 3	9 8 8 8	4 1	4 1	4 1	3 2	3 1	3 2	8	6 0	6	6	8	7	7	3	3	3	3	7	7	7	7
1	1 6	9 8 5 5	4 1	4 1	4 1	3 2	2 9	2 4	8	6 0	6	6	8	7	7	3	3	3	3	7	7	7	7
1	1 9	9 8 5 4	3 9	3 8	3 8	3 7	2 7	1 4	8	0 2	6	7	7	7	3	3	3	3	3	6	6	6	6
1	2 2	9 8 5 1	3 8	3 6	3 4	2 7	1 0	8 0	8	5 1	6	8	7	7	6	6	6	6	6	6	6	6	6
1	2 5	9 8 4 7	3 8	3 7	3 6	2 7	1 2	4 0	8	6 1	6	6	8	4	4	4	4	4	6	6	6	6	6
1	2 8	9 8 5 3	3 7	3 6	3 5	2 9	0 7	8 0	8	0 5	6	8	4	4	4	4	4	4	6	6	6	6	6
1	3 0	9 8 7 9	3 5	3 5	3 5	3 0	1 7	2 6	8	0 5	5	2	6	6	6	6	6	6	6	6	6	6	6
1	3 3	9 8 2 3	3 3	3 3	3 2	3 1	1 7	2 1	6 4	8	8 5	7	8	4	4	4	4	4	4	4	4	4	4
1	3 6	9 9 4 7	3 0	2 9	2 7	1 8	2 0	2 4	7	8 6	7	7	4	4	4	4	4	4	4	4	4	4	4
1	3 9	9 9 8 5	2 9	2 8	2 6	1 9	2 3	4 0	8	8 5	7	8	4	4	4	4	4	4	4	4	4	4	4
1	4 2	2 0 0 4	5 0	2 7	2 7	1 9	1 7	8 1	8	0 2	7	7	6	6	6	6	6	6	6	6	6	6	6
1	4 5	9 9 9 8	5 3	5 2	2 9	2 4	1 7	8 0	5	B 1	7	6	8	4	4	4	4	4	5	5	5	5	5
1	4 8	9 9 8 5	5 4	5 4	3 5	2 7	2 0	5 2	8	6 0	6	6	8	7	7	3	3	3	6	6	6	6	6
1	5 1	9 9 6 9	5 9	5 8	2 7	2 1	2 1	3 2	8	2 1	6	8	7	7	3	3	3	3	6	6	6	6	6
1	5 4	9 9 6 6	5 9	5 9	5 9	5 9	2 7	2 8	8	0 5	5	5	8	7	7	3	3	3	6	6	6	6	6
1	5 7	9 9 4 2	4 0	5 9	5 8	2 8	2 7	8 0	8	0 5	2	6	6	6	6	6	6	6	6	6	6	6	6
1	6 0	9 9 0 5	4 0	3 9	3 8	3 0	3 0	4 0	8	6 1	6	6	7	3	3	3	3	3	6	6	6	6	6
1	6 3	9 8 6 9	5 9	5 8	5 7	2 7	3 2	4 0	8	6 1	6	8	7	4	4	4	4	4	6	6	6	6	6
1	6 6	9 8 8 9	3 5	5 2	5 0	2 6	3 0	0 8	6	8 4	7	5	3	4	4	4	4	4	6	6	6	6	6
1	6 9	9 1 1 3	3 4	3 0	2 3	2 5	2 3	8 1	5	2 2	7	5	2	4	4	4	4	4	6	6	6	6	6
1	7 2	9 9 3 3	2 9	2 7	2 5	2 2	2 4	2 4	5	8 5	7	5	2	4	4	4	4	4	6	6	6	6	6
1	7 5	9 9 4 3	5 0	2 9	2 9	2 9	2 4	2 2	0 5	8	8 6	7	8	3	4	4	4	4	6	6	6	6	6
1	7 8	9 9 6 7	3 0	2 9	2 7	2 1	2 0	2 5	0 5	8	8 6	7	8	3	4	4	4	4	6	6	6	6	6
1	8 1	9 9 7 3	2 9	2 9	2 2	2 3	2 5	9 1	8	7 5	7	8	3	3	3	3	3	3	6	6	6	6	6
1	8 4	9 0 0 1	2 8	2 7	2 6	2 0	3 0	3 2	7	2 6	7	7	3	4	4	4	4	4	6	6	6	6	6
1	8 7	9 0 4 5	5 0	2 8	2 5	2 0	2 8	4 0	7	2 6	7	7	3	4	4	4	4	4	6	6	6	6	6
1	9 0	2 0 0 8	2 9	2 9	2 6	2 0	2 3	1 6	7	8 6	7	7	3	4	4	4	4	4	6	6	6	6	6
1	9 3	0 1 1 5	3 0	2 7	2 2	2 2	2 2	8 0	6	2 6	7	7	3	4	4	4	4	4	6	6	6	6	6
1	9 6	0 0 5 3	3 7	3 1	2 5	1 9	1 8	8 0	6	0 5	2	6	6	6	6	6	6	6	6	6	6	6	6
1	9 9	0 1 4 5	3 1	3 4	2 8	2 0	0 7	8 0	7	0 5	2	6	6	6	6	6	6	6	6	6	6	6	6
1	1 0	0 1 4 0	3 4	3 4	3 5	2 7	1 0	8 1	5	0 2	2	2	5	8	4	4	4	4	6	6	6	6	6
1	1 3	0 1 3 5	5 6	5 5	5 2	2 8	1 1	8 0	8	0 5	2	2	8	8	4	4	4	4	6	6	6	6	6
1	1 6	2 2 0 0	3 7	3 7	3 5	3 0	1 3	8 0	8	0 5	2	2	8	8	3	3	3	3	6	6	6	6	6
1	1 9	0 0 0 1	5 7	5 7	5 6	3 0	1 7	8 0	8	5 0	5	5	8	8	3	3	3	3	6	6	6	6	6
1	2 2	0 0 5 5	3 7	3 7	3 7	3 2	1 8	4 0	8	5 0	5	5	8	8	4	4	4	4	6	6	6	6	6
1	2 5	0 0 4 8	3 8	3 8	3 8	3 3	1 7	4 0	8	5 0	5	5	8	8	4	4	4	4	6	6	6	6	6
1	2 8	1 0 0 0	3 4	3 4	3 2	2 8	2 0	0 7	8 0	7	0 5	2	2	7	8	4	4	4	6	6	6	6	6
1	3 1	0 1 4 5	5 5	5 5	5 5	2 8	1 2	8 2	8	5 0	2	2	7	8	4	4	4	4	6	6	6	6	6
1	3 4	1 6 0 0	3 4	3 4	3 4	2 7	1 0	8 1	5	0 1	1	5	8	5	4	4	4	4	6	6	6	6	6
1	3 7	1 9 0 1	3 7	3 7	3 6	3 0	1 3	8 0	7	2 6	7	5	8	5	5	4	4	4	6	6	6	6	6
1	4 0	0 0 8 7	3 7	3 4	2 9	2 7	2 1	8 1	3	2 6	7	5	8	5	5	4	4	4	6	6	6	6	6
1	4 3	1 9 2 2	3 7	3 4	2 8	2 7	2 5	4 0	8	5 0	7	8	8	5	5	4	4	4	6	6	6	6	6
1	4 6	0 0 9 2	3 7	3 4	2 8	2 7	2 5	4 0	8	5 0	5	5	8	8	5	5	4	4	6	6	6	6	6
1	4 9	0 0 7 9	3 8	3 5	3 1	2 9	2 0	4 0	8	5 0	5	5	8	8	5	5	4	4	6	6	6	6	6
1	5 2	0 0 7 8	3 8	3 6	3 2	2 9	3 8	8 1	8	0 1	2	3	8	4	4	4	4	4	6	6	6	6	6
1	5 5	0 0 4 9	3 5	3 3	3 2	2 8	2 7	2 2	8 0	8	0 5	5	5	8	8	4	4	4	6	6	6	6	6
1	5 8	0 0 4 2	3 5	3 4	3 2	2 7	1 7	8 0	8	0 5	2	8	8	4	4	4	4	4	6	6	6	6	6
1	6 1	0 0 3 5	3 5	3 4	3 4	2 9	1 0	8 0	8	0 5	2	8	8	4	4	4	4	4	6	6	6	6	6
1	6 4	0 0 2 1	3 4	3 4	3 1	2 7	3 0	8 1	8	0 2	2	8	8	4	4	4	4	4	6	6	6	6	6
1	6 7	0 0 3 9	3 2	2 5	2 7	3 2	8 1	8	0 5	2	8	8	4	4	4	4	4	6	6	6	6	6	6
1	7 0	0 0 6 6	3 4	3 2	2 7	2 7	3 0	8 0	7	5 0	2	7	8	5	5	5	5	5	6	6	6	6	6
1	7 3	0 0 9 6	3 4	3 1	2 6	2 7	2 2	8 1	8	0 5	2	8	8	5	5	5	5	5	6	6	6	6	6
1	7 6	0 0 1 6	3 5	3 2	2 8	2 7	2 0	8 0	8	0 5	2	8	8	5	5	5	5	5	6	6	6	6	6
1	7 9	0 0 1 2	3 4	3 4	3 2	2 7	1 7	8 0	8	0 5	2	8	8	5	5	5	5	5	6	6	6	6	6
1	8 2	0 0 1 3	3 4	3 4	3 4	3 3	2 9	1 0	8 0	8	0 5	2	8	8	5	5	5	5	5	6	6	6	6
1	8 5	0 0 1 1	3 6	3 5	3 4	3 1	1 6	8 1	8	1 6	7	7	8	5	5	5	5	5	6	6	6	6	6
1	8 8	0 0 1 9	3 5	3 4	3 4	3 1	1 6	8 1	8	1 6	7	7	8	5	5	5	5	5	6	6	6	6	6
1	9 1	0 0 7 8	3 9	3 8	3 8	3 3	1 8	2 4	8	6 1	6	6	8	7	7	3	3	3	6	6	6	6	6
1	9 4	0 0 4 6	4 1	4 0	3 5	2 2	1 6	8 0	8	2 0	5	5	7	2	2	2	2	2	7	7	7	7	7
1	9 7	0 0 4 9	4 1	4 1	4 1	3 3	2 4	1 6	8	6 0	5	5	7	2	2	2	2	2	7	7	7	7	7
1	1 0	0 0 0 3	4 0	3 7	3 6	2 8	1																

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

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF JUNE 1949																								
DAY	HOUR	STATION LEVEL PRESSURE		WIND		VISIBILITY	LOW CLOUD		CLOUD DIRECTION		MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER		MAXIMUM GUST								
		DRY BULB	WET BULB	DEW POINT	DIRECTION		TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	TYPE	LOW	MIDDLE	HIGH	DIRECTION	DIRECTION	SPEED	SUNSHINE							
LST.	Mbs.	°F	°F	°F	" x 10	Kts.	VV	Oktas	ww	W	Oktas	C _L	h	C _M	C _H	" F	" F	Points	Miles	" x 10	Kts.	Hours		
21	01	99.9	94.4	4.0	3.8	3.5	5.1	1.7	8.1	3	0.2	1	3	8	0	0	7	0	0	736	3.4	4.2	0.02	
21	04	99.7	70.0	4.0	3.9	5.7	3.3	1.7	8.1	7	0.3	1	7	8	5	0	7	0	0					
21	07	99.4	5.4	4.1	4.0	3.8	3.3	3.0	8.1	7	0.5	2	7	8	4	0	7	0	0					
21	10	99.2	1.1	4.1	4.0	3.9	3.3	3.3	2.4	8	5.0	5	8	8	3	0	7	0	0					
21	13	99.1	9.9	4.0	4.0	5.9	3.0	1.8	8.1	8	2.1	6	7	8	4	0	7	0	0					
21	16	99.2	9.8	3.7	3.5	3.2	2.7	1.7	8.0	8	0.5	2	4	6	4	7	7	0	0					
21	19	99.4	2.9	3.6	3.4	3.0	2.8	1.7	8.1	2	0.1	7	2	8	0	0	6	6	0	41	3.5	0.006		
21	22	99.5	5.4	3.6	3.5	3.3	2.7	1.6	8.1	2	0.1	1	2	2	4	0	0	6	6	0	736	3.4	4.2	0.02
22	01	99.8	5.3	3.5	3.4	3.5	2.0	0.7	8.1	3	0.1	7	5	2	4	0	0	5	5	0				
22	04	0.1	7	3.4	3.5	3.0	1.9	1.3	8.1	3	0.1	7	3	2	4	0	0	5	5	0				
22	07	0.0	5.2	3.5	3.1	2.7	2.2	0.6	8.2	4	2.6	7	4	2	4	0	0	5	5	0				
22	10	0.7	6.6	5.5	5.2	2.6	2.7	1.9	8.2	6	7.0	7	5	8	4	0	6	6	6					
22	13	1.5	7.9	3.4	3.2	2.9	2.7	2.3	8.1	6	0.2	1	3	5	4	4	6	6	6					
22	16	1.6	8.4	3.0	3.7	3.6	2.7	2.2	8.2	8	0.2	2	8	5	4	4	6	6	6					
22	19	1.9	8.4	4.0	4.0	4.0	2.9	1.8	8.0	8	0.5	2	6	6	2	2	6	6	6					
22	22	2.2	9.5	5.4	5.6	3.5	2.7	1.6	8.1	2	0.1	7	2	2	4	0	0	6	6	0	40	3.2	0.006	437
22	01	9.8	5.3	5.5	5.4	5.2	2.0	0.7	8.1	3	0.1	7	5	2	4	0	0	6	6	0	28	3.5	0.03	
22	04	0.1	1.7	3.4	3.5	3.0	1.9	1.3	8.1	3	0.1	7	3	2	4	0	0	5	5	0				
22	07	0.7	5.2	3.5	3.1	2.7	2.2	0.6	8.2	4	2.6	7	4	2	4	0	0	5	5	0				
22	10	1.0	7.6	5.5	5.2	2.6	2.7	1.9	8.2	6	7.0	7	5	8	4	0	6	6	6					
22	13	1.5	8.9	3.4	3.2	2.9	2.7	2.3	8.1	6	0.2	1	3	5	4	4	6	6	6					
22	16	1.8	8.6	4.0	4.0	4.0	2.8	1.8	8.0	8	0.5	2	6	6	2	2	6	6	6					
22	19	2.1	9.6	4.0	4.0	4.0	2.9	1.8	8.0	8	0.5	2	6	6	2	2	6	6	6					
22	22	2.5	10.5	4.0	4.0	4.0	2.7	1.7	8.0	8	0.5	2	6	6	2	2	6	6	6					
22	01	0.2	2.9	3.9	3.9	3.0	2.8	1.3	8.1	1.3	0.1	6	8	5	0	0	7	0	0	41	3.8	0.003	554	
22	04	0.7	1.9	4.0	4.0	4.0	2.8	1.3	8.1	1.3	0.2	1	3	5	4	4	6	6	6		28	3.5	0.00	
22	07	1.0	1.6	9.9	3.8	3.6	2.7	1.3	8.2	8	0.8	2	6	6	2	2	6	6	6					
22	10	1.3	1.6	8.6	4.0	4.0	2.8	1.3	8.2	8	1.0	4	4	2	2	6	6	6						
22	13	1.6	1.6	8.6	4.0	4.0	2.8	1.3	8.2	8	1.0	5	4	2	2	6	6	6						
22	16	1.9	1.6	8.6	4.0	4.0	2.8	1.3	8.2	8	1.0	5	4	2	2	6	6	6						
22	19	2.2	1.6	8.6	4.0	4.0	2.8	1.3	8.2	8	1.0	5	4	2	2	6	6	6						
22	22	2.5	1.6	8.6	4.0	4.0	2.8	1.3	8.2	8	1.0	5	4	2	2	6	6	6						
22	01	0.2	2.9	3.9	3.9	3.0	2.8	1.3	8.1	1.3	0.1	6	8	5	0	0	7	0	0	41	3.8	0.003	554	
22	04	0.7	1.9	4.0	4.0	4.0	2.8	1.3	8.1	1.3	0.2	1	3	5	4	4	6	6	6		28	3.5	0.00	
22	07	1.0	0.2	3.1	3.9	3.9	3.0	1.3	8.1	1.3	0.4	2	4	1	2	6	6	6						
22	10	1.3	0.2	2.0	4.0	4.0	3.2	1.4	8.1	1.4	0.1	5	4	1	2	6	6	6						
22	13	1.6	0.2	2.0	4.0	4.0	3.2	1.4	8.1	1.4	0.1	5	4	1	2	6	6	6						
22	16	1.9	0.2	2.0	4.0	4.0	3.2	1.4	8.1	1.4	0.1	5	4	1	2	6	6	6						
22	19	2.2	0.2	2.0	4.0	4.0	3.2	1.4	8.1	1.4	0.1	5	4	1	2	6	6	6						
22	22	2.5	0.2	2.0	4.0	4.0	3.2	1.4	8.1	1.4	0.1	5	4	1	2	6	6	6						
22	01	0.2	2.9	3.9	3.9	3.0	1.7	0.7	8.1	1.7	0.1	6	8	5	0	0	7	0	0	40	3.8	0.001	330	
22	04	0.7	2.2	2.7	3.9	3.9	3.0	1.7	0.7	8.1	1.7	0.2	1	6	6	0	0	7	0	0	341	0.1	2.1	0.00
22	07	1.0	0.2	3.3	3.9	3.9	3.0	1.7	0.7	8.1	1.7	0.0	0	9	5	0	0	7	0	0				
22	10	1.3	0.2	3.3	3.9	3.9	3.0	1.7	0.7	8.1	1.7	0.1	6	8	5	0	0	7	0	0				
22	13	1.6	0.2	3.3	3.9	3.9	3.0	1.7	0.7	8.1	1.7	0.1	6	8	5	0	0	7	0	0				
22	16	1.9	0.2	3.3	3.9	3.9	3.0	1.7	0.7	8.1	1.7	0.2	1	6	6	0	0	7	0	0				
22	19	2.2	0.2	3.3	3.9	3.9	3.0	1.7	0.7	8.1	1.7	0.2	1	6	6	0	0	7	0	0				
22	22	2.5	0.2	3.3	3.9	3.9	3.0	1.7	0.7	8.1	1.7	0.2	1	6	6	0	0	7	0	0				
22	01	0.2	2.9	3.9	3.9	3.0	1.7	0.7	8.1	1.7	0.2	1	6	6	0	0	7	0	0	41	3.7	0.010	469	
22	04	0.7	0.0	2.2	4.2	4.1	4.0	3.5	1.7	2.4	8	0.5	2	8	5	5	4	8	8	8				
22	07	1.0	0.0	2.2	4.2	4.1	4.0	3.6	2.0	8.0	8	6.0	2	8	5	5	4	8	8	8				
22	10	0.9	0.0	2.2	4.2	4.1	4.0	3.6	2.0	8.0	8	6.0	6	7	7	2	2	7	7	7				
22	13	0.9	0.0	2.2	4.2	4.1	4.0	3.6	2.3	8.0	8	6.0	6	7	7	2	2	7	7	7				
22	16	0.9	0.0	2.2	4.2	4.1	4.0	3.6	2.3	8.0	8	6.0	6	7	7	2	2	7	7	7				
22	19	0.9	0.0	2.2	4.2	4.1	4.0	3.6	2.3	8.0	8	6.0	6	7	7	2	2	7	7	7				
22	22	0.9	0.0	2.2	4.2	4.1	4.0	3.6	2.3	8.0	8	6.0	6	7	7	2	2	7	7	7				
22	01	0.0	0.0	2.2	4.2	4.1	4.0	3.6	2.3	8.0	8	6.0	6	7	7	2	2	7	7	7				
22	04	0.0	0.0	2.2	4.2	4.1	4.0	3.6	2.3	8.0	8	6.0	6	7	7	2	2	7	7	7				
22	07	0.0	0.0	2.2	4.2	4.1	4.0	3.6	2.3	8.0	8	6.0	6	7	7	2	2	7	7	7				
22	10	0.9	0.0	2.2	4.2	4.1	4.0	3.6	2.3	8.0	8	6.0	6	7	7	2	2	7	7	7				
22	13	0.9	0.0	2.2	4.2	4.1	4.0	3.6	2.3	8.0	8	6.0	6	7	7	2	2	7	7	7				
22	16	0.9	0.0	2.2	4.2	4.1	4.0	3.6	2.3	8.0	8	6.0	6	7	7	2	2	7	7	7				
22	19	0.9	0.0	2.2	4.2	4.1	4.0	3.6	2.3	8.0	8	6.0	6	7	7	2	2	7	7	7				
22	22	0.9	0.0	2.2	4.2	4.1	4.0	3.6	2.3	8.0	8	6.0	6	7	7	2	2	7	7	7				
22	01	0.0	0.0	2.2	4.2	4.1	4.0	3.6	2.3	8.0	8	6.0	6	7	7	2	2	7	7	7				
22	04	0.0	0.0	2.2	4.2	4.1	4.0	3.6	2.3	8.0	8	6.0	6	7	7	2	2	7	7	7				
22	07	0.0	0.0	2.2	4.2	4.1	4.0	3.6	2.3	8.0	8	6.0	6	7	7	2	2							

**RESULTS OF SURFACE OBSERVATIONS AT
MACQUARIE ISLAND
FOR THE MONTH OF JULY 1949**

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

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF JULY 1949																											
DAY	HOUR	STATION LEVEL PRESSURE		DRY BULB		WET BULB		DEW POINT	WIND		VISIBILITY	LOW CLOUD		CLOUD DIRECTION		MAXIMUM GUST											
		Mbs.	"F	"F	"F	"F	*x10 Kts.		DIRECTION	SPEED		TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	TYPE	HEIGHT	MIDDLE CLOUD	LOW	MIDDLE	HIGH	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER			
LST.									Oktas	W	Oktas	C	C	C	C	C	C	C	C	C	"F	Points	Miles	*x10 Kts.	Hours		
11	0 1	9 9 1 1	5 0	2 6	2 3	2 7	1 8	4 0	8	0 5	7	6	3	4	6	6	6	6	6	6	5	4	6 6 6 6 6 6	3 9 1	2 8	5 7	0 1 4
11	0 4	9 9 0 7	3 1	2 6	2 2	2 7	2 2	8 0	8	0 2	2	8	0	5	5	5	5	5	5	5	5	5	5 5 5 5 5 5				
11	0 7	9 8 7 8	3 2	3 1	2 8	3 2	3 2	0 7	4 0	8	7 1	2	7	8	0	3	2	2	0	0	0	0	0 0 0 0 0 0	3 8	3 0	0 0 0 5	3 9 1
11	1 0	9 8 2 8	3 2	3 1	3 5	3 2	3 5	0 2	4 0	8	7 1	7	8	0	3	2	2	0	0	0	0	0	0 0 0 0 0 0				
11	1 3	9 7 9 8	3 8	3 6	5 2	2 7	3 3	8 1	4	2 1	6	4	8	8	4	4	0	0	0	0	0	0	0 0 0 0 0 0				
11	1 6	9 8 3 0	3 8	3 3	2 4	2 8	3 8	6 4	8	8 0	8	8	8	8	4	4	0	0	0	0	0	0	0 0 0 0 0 0				
11	1 9	9 8 7 0	5 6	3 3	2 8	2 8	3 1	8 1	3	2 2	7	3	8	8	4	4	0	0	0	0	0	0	0 0 0 0 0 0				
11	2 2	9 9 0 5	5 5	3 3	3 0	2 7	3 0	8 0	6	2 6	7	6	8	8	5	5	0	0	0	0	0	0	0 0 0 0 0 0	3 8	3 0	0 0 0 5	3 9 1
12	0 1	9 9 2 0	5 9	3 4	2 7	2 7	2 9	8 1	5	0 5	5	5	8	8	5	5	2	2	2	2	2	2	2 2 2 2 2 2				
12	0 4	9 9 1 5	5 6	3 5	3 3	2 9	2 4	4 0	8	6 8	8	8	0	0	4	4	5	5	5	5	5	5	5 5 5 5 5 5				
12	0 7	9 9 0 4	3 7	3 5	5 4	2 8	1 2	4 0	8	0 5	7	8	0	4	4	4	2	2	2	2	2	2	2 2 2 2 2 2				
12	1 0	9 9 2 6	3 9	3 7	5 4	2 8	2 4	8 0	8	0 5	2	2	2	2	2	2	2	2	2	2	2	2	2 2 2 2 2 2				
12	1 3	9 9 2 4	5 8	3 8	5 2	2 7	3 3	8 1	4	2 1	6	4	8	8	4	4	0	0	0	0	0	0	0 0 0 0 0 0				
12	1 6	9 9 0 9	4 0	3 9	5 3	3 0	2 3	4 0	8	2 0	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
12	1 9	9 8 8 1	4 0	4 0	4 0	3 2	2 2	4 0	8	6 3	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
12	2 2	9 8 2 3	4 1	4 1	4 1	3 2	3 0	2 4	8	6 1	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
13	0 1	9 7 7 1	4 2	4 1	4 1	3 1	3 0	1 6	8	5 1	6	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
13	0 4	9 7 6 6	3 5	3 4	5 3	1 7	3 3	4 0	8	0 6	6	8	2	4	4	4	4	4	4	4	4	4	4 4 4 4 4 4				
13	0 7	9 8 4 6	3 1	3 0	2 8	1 9	2 3	2 0	5	8 5	7	5	2	4	4	4	4	4	4	4	4	4	4 4 4 4 4 4				
13	1 0	9 9 2 8	3 1	2 9	2 6	1 9	2 3	4 0	8	2 2	7	7	0	4	4	4	4	4	4	4	4	4	4 4 4 4 4 4				
13	1 3	9 8 8 5	3 2	3 1	3 0	2 8	0 9	8 2	6	2 2	7	6	8	4	4	4	4	4	4	4	4	4	4 4 4 4 4 4				
13	1 6	0 3 6 6	2 8	2 5	2 3	1 8	2 0	0 4	8	8 6	7	8	4	4	4	4	4	4	4	4	4	4	4 4 4 4 4 4				
13	1 9	0 8 8 8	3 1	2 5	1 5	2 2	1 7	8 0	8	8 5	7	8	4	4	4	4	4	4	4	4	4	4	4 4 4 4 4 4				
13	2 2	0 8 2 3	3 2	2 9	2 3	2 1	8 1	8	8 2	7	8	8	4	4	4	4	4	4	4	4	4	4	4 4 4 4 4 4				
14	0 1	9 7 7 1	4 2	4 1	4 1	3 1	3 0	1 6	8	5 1	6	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
14	0 4	9 7 6 6	3 5	3 4	5 3	1 7	3 3	4 0	8	0 6	6	8	2	4	4	4	4	4	4	4	4	4	4 4 4 4 4 4				
14	0 7	9 8 4 6	3 1	3 0	2 8	1 9	2 3	2 4	8 0	8	8 5	7	8	2	4	4	4	4	4	4	4	4	4 4 4 4 4 4				
14	1 0	9 9 2 6	3 7	3 6	5 6	2 9	3 1	4 0	8	5 2	5	8	7	2	2	2	2	2	2	2	2	2	2 2 2 2 2 2				
14	1 3	9 9 2 4	3 9	3 8	5 8	2 8	3 0	0 8	8	5 0	5	8	7	2	2	2	2	2	2	2	2	2	2 2 2 2 2 2				
14	1 6	9 9 0 9	4 0	3 9	5 8	2 7	2 5	1 6	8	5 1	5	8	7	2	2	2	2	2	2	2	2	2	2 2 2 2 2 2				
14	1 9	9 8 8 1	3 9	3 8	5 8	2 7	2 5	1 6	8	5 0	5	8	7	2	2	2	2	2	2	2	2	2	2 2 2 2 2 2				
14	2 2	9 8 2 3	3 6	3 5	5 8	2 8	2 4	1 6	8	5 0	5	8	7	2	2	2	2	2	2	2	2	2	2 2 2 2 2 2				
15	0 1	9 7 7 1	4 2	4 1	4 1	3 1	3 0	1 6	8	5 1	6	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
15	0 4	9 7 6 6	3 5	3 4	5 3	1 7	3 3	4 0	8	5 0	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
15	0 7	9 8 4 6	3 1	3 0	2 8	1 9	2 3	2 4	8 0	8	5 2	5	8	7	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
15	1 0	9 9 2 6	3 7	3 6	5 6	2 9	3 1	4 0	8	5 0	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
15	1 3	9 9 2 4	3 9	3 8	5 8	2 8	2 6	1 6	8	5 1	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
15	1 6	9 9 0 9	4 0	4 0	4 0	3 2	2 2	0 8	8	5 0	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
15	1 9	9 8 8 1	3 9	3 8	5 8	2 7	2 5	1 6	8	5 1	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
15	2 2	9 8 2 3	3 6	3 5	5 8	2 7	2 5	1 6	8	5 0	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
16	0 1	9 7 7 1	4 2	4 1	4 1	3 1	3 0	1 6	8	5 1	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
16	0 4	9 7 6 6	3 5	3 4	5 3	1 7	3 3	4 0	8	5 0	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
16	0 7	9 8 4 6	3 1	3 0	2 8	1 9	2 3	2 4	8 0	8	5 2	5	8	7	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
16	1 0	9 9 2 6	3 7	3 6	5 6	2 9	3 1	4 0	8	5 1	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
16	1 3	9 9 2 4	3 9	3 8	5 8	2 8	2 6	1 6	8	5 0	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
16	1 6	9 9 0 9	4 0	4 0	4 0	3 2	2 2	0 8	8	5 0	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
16	1 9	9 8 8 1	3 9	3 8	5 8	2 7	2 5	1 6	8	5 1	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
16	2 2	9 8 2 3	3 6	3 5	5 8	2 7	2 5	1 6	8	5 0	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
17	0 1	9 7 7 1	4 2	4 1	4 1	3 1	3 0	1 6	8	5 1	6	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
17	0 4	9 7 6 6	3 5	3 4	5 3	1 7	3 3	4 0	8	5 0	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
17	0 7	9 8 4 6	3 1	3 0	2 8	1 9	2 3	2 4	8 0	8	5 2	5	8	8	4	4	4	4	4	4	4	4	4 4 4 4 4 4				
17	1 0	9 9 2 6	3 7	3 6	5 6	2 9	3 1	4 0	8	5 1	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
17	1 3	9 9 2 4	3 9	3 8	5 8	2 8	2 6	1 6	8	5 0	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
17	1 6	9 9 0 9	4 0	4 0	4 0	3 2	2 2	0 8	8	5 0	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
17	1 9	9 8 8 1	3 9	3 8	5 8	2 7	2 5	1 6	8	5 1	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
17	2 2	9 8 2 3	3 6	3 5	5 8	2 7	2 5	1 6	8	5 0	5	8	7	3	3	3	3	3	3	3	3	3	3 3 3 3 3 3				
18	0 1	9 7 7																									

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

DAY		FOR THE MONTH OF JULY 1949																											
STATION	LEVEL	WIND		DEW POINT		VISIBILITY		TOTAL CLOUD		PRESENT WEATHER		PAST WEATHER		LOW CLOUD		CLOUD DIRECTION		HIGH TEMPERATURE		MINIMUM TEMPERATURE		PRECIPITATION		ANEMOMETER		MAXIMUM GUST			
HOUR	PRESSURE	DRY BULB	WET BULB	DIRECTION	SPEED	"F	"F	"x10	Kts.	VV	Oktas	WW	W	Oktas	C _L	h	MIDDLE CLOUD	LOW	MIDDLE	HIGH	MIDDLE CLOUD	LOW	MIN. TEMP.	MAX. TEMP.	Points	Miles	DIRECTION	SPEED	SUNSHINE
LST.	Mbs.	"F	"F	"x10	Kts.	VV	Oktas	WW	W	Oktas	C _L	h	Middle Cloud	Low	Middle	High	Middle Cloud	Low	Middle	High	Middle Cloud	Low	Min. Temp.	Max. Temp.	Points	Miles	"x10	Kts.	Hours
21	0 1	0 0 2 1	3 9	3 8	3 7	3 0	2 6	R 0		8	0 5	5	5	5	5	5	5	7	6	6	6	6	6	6	6	6	6	0 0 8	
21	0 4	9 9 8 9	3 9	3 8	3 7	2 9	1 8	R 0		8	0 5	5	5	5	5	5	5	7	6	6	6	6	6	6	6	6	6	0 0 8	
21	0 7	9 9 6 6	3 7	3 7	3 7	2 9	1 2	0 8		8	0 5	5	5	5	5	5	5	7	2	2	2	2	2	2	2	2	2	0 0 8	
21	1 0	9 9 4 7	3 8	3 8	2 8	1 0	0 4		8	0 5	5	5	5	5	5	5	5	7	2	2	2	2	2	2	2	2	2	0 0 8	
21	1 3	9 9 3 6	3 5	3 5	2 9	2 0	1 4	0 5		8	0 1	2	2	2	2	2	2	4	4	4	4	4	4	4	4	4	4	0 0 8	
21	1 6	9 9 4 9	3 5	3 5	2 7	1 7	1 7	0 5		7	0 3	1	1	1	1	1	1	4	4	4	4	4	4	4	4	4	4	0 0 8	
21	1 9	9 9 7 4	3 5	3 2	3 0	2 6	2 0	1 0	0 8	8	0 2	1	1	1	1	1	1	4	4	4	4	4	4	4	4	4	0 0 8		
22	2 2	0 0 0 4	3 2	2 9	2 2	2 2	2 2	1 5	0 8	8	0 2	1	1	1	1	1	1	5	5	5	5	5	5	5	5	5	0 0 8		
22	0 1	0 0 3 5	3 2	2 8	2 1	2 3	0 8	0 8		8	0 2	1	1	1	1	1	1	5	5	5	5	5	5	5	5	5	0 0 8		
22	0 4	0 0 5 9	3 5	2 9	2 2	2 7	1 6	8 1		8	0 5	5	5	5	5	5	5	5	4	5	5	5	5	5	5	5	5	0 0 8	
22	0 7	0 0 8 0	3 5	3 5	2 5	2 7	1 1	1 0		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	0 0 8	
22	1 0	0 0 9 9	3 5	3 5	3 1	2 9	1 4	8 0		7	2	6	7	7	7	7	7	4	4	4	4	4	4	4	4	4	0 0 8		
22	1 3	0 0 8 1	3 5	3 5	3 0	3 0	2 3	8 0		8	0 5	2	2	2	2	2	2	8	8	8	8	8	8	8	8	8	0 0 8		
22	1 6	0 0 7 1	3 6	3 5	3 3	3 0	3 0	8 0		8	0 5	2	2	2	2	2	2	8	8	8	8	8	8	8	8	8	0 0 8		
22	1 9	0 0 5 1	3 8	3 6	3 4	3 1	2 8	4 0		8	6	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8	0 0 8		
22	2 2	0 0 2 5	3 9	3 7	3 7	3 2	3 5	0 0		8	0 5	6	8	8	8	8	8	7	7	7	7	7	7	7	7	7	0 0 8		
23	0 1	9 9 9 9	4 0	3 9	3 9	3 2	3 8	8 0		8	0 5	2	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	0 0 8	
23	0 4	9 9 7 6	4 0	4 0	4 0	3 2	3 6	1 6		8	6	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8	0 0 8		
23	0 7	9 9 8 3	4 1	4 1	4 1	3 1	2 6	4 0		8	5	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0 0 8		
23	1 0	9 9 8 9	4 0	4 0	4 0	3 1	2 4	8 0		7	2	0	5	5	5	5	5	7	7	7	7	7	7	7	7	7	0 0 8		
23	1 3	9 9 7 9	4 1	4 1	4 1	3 1	2 8	2 4		8	5	0	5	5	5	5	5	7	7	7	7	7	7	7	7	7	0 0 8		
23	1 6	9 9 7 8	4 0	4 0	4 0	3 1	2 8	3 2		8	2	0	5	5	5	5	5	7	7	7	7	7	7	7	7	7	0 0 8		
23	1 9	9 9 9 6	4 0	3 9	3 8	3 0	3 0	8 0		8	0 5	5	8	8	8	8	8	5	5	5	5	5	5	5	5	5	0 0 8		
23	2 2	0 0 1 6	3 9	3 8	3 6	2 9	2 9	2 9		8	0 5	2	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	0 0 8	
23	0 1	0 0 5 5	3 8	3 8	3 5	2 7	2 4	2 4		8	5	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 8	
23	0 4	0 0 4 4	3 8	3 7	3 6	2 9	2 9	2 2		8	7	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 8	
23	0 7	0 0 4 5	3 8	3 5	3 5	3 2	3 2	2 4		8	3	0	2	1	3	3	3	7	7	7	7	7	7	7	7	7	0 0 8		
23	1 0	0 0 2 8	3 9	3 9	3 9	3 8	3 1	2 6		8	0	5	5	5	5	5	5	7	7	7	7	7	7	7	7	7	0 0 8		
23	1 3	0 0 0 1	4 0	4 0	3 9	3 1	2 8	2 4		8	5	1	5	5	5	5	5	7	7	7	7	7	7	7	7	7	0 0 8		
23	1 6	9 9 9 7	3 9	3 9	3 8	3 0	2 4	4 0		8	2	1	6	8	8	8	8	5	5	5	5	5	5	5	5	5	0 0 8		
23	1 9	9 9 7 6	3 9	3 9	3 9	3 8	3 1	2 4		8	0	5	2	8	8	8	8	8	8	8	8	8	8	8	8	8	8	0 0 8	
24	0 1	0 0 5 9	3 8	3 8	3 5	2 7	2 4	2 4		8	5	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 8	
24	0 4	0 0 4 4	3 8	3 7	3 6	2 9	2 9	2 2		8	7	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 8	
24	0 7	0 0 4 5	3 8	3 5	3 5	3 2	3 2	2 4		8	3	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 8	
24	1 0	0 0 2 8	3 9	3 9	3 9	3 8	3 2	2 4		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	0 0 8	
24	1 3	0 0 0 1	4 0	4 0	3 9	3 1	2 8	2 4		8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0 0 8	
24	1 6	9 9 8 2	3 8	3 8	3 5	2 7	2 4	2 4		8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0 0 8	
24	1 9	9 9 6 3	3 2	3 2	2 7	2 7	2 7	2 7		8	3	0	4	4	4	4	4	8	8	8	8	8	8	8	8	8	8	0 0 8	
25	0 1	9 9 4 0	3 5	3 5	3 4	3 2	3 0	3 0		8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0 0 8	
25	0 4	9 9 1 0	3 7	3 7	3 7	3 1	2 7	2 4		8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0 0 8	
25	0 7	0 0 8 9	3 9	3 9	3 9	2 9	2 9	2 9		8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0 0 8	
25	1 0	0 0 8 8	4 0	3 9	3 8	3 1	2 8	2 4		8	7	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0 0 8	
25	1 3	0 0 7 5	4 0	4 0	3 1	2 7	2 4	2 4		8	7	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0 0 8	
25	1 6	0 0 5 0	2 3	2 3	2 1	2 2	1 5	1 5		8	5	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 8	
25	1 9	0 0 4 5	2 3	2 3	2 1	2 2	1 5	1 5		8	5	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0 0 8	
26	0 1	0 0 2 8	2 8	2 8	2 8	2 2	2 2	2 2		8	7	0	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	0 0 8	
26	0 4	0 0 2 8	2 8	2 8	2 8	2 1	2 5	0 4		8	5	0	4	4	4	4	4	8	8	8	8	8	8	8	8	8	0 0 8		
26	0 7	0 0 2 4	2 8	2 8	2 6	2 6	2 6	2 6		8	2	2	2	2	2	2	2	8	8	8	8	8	8	8	8	8	0 0 8		
26	1 0	0 0 2 5	2 8	2 8	2 5	2 7	2 7	2 7		8	2	2	2	2	2	2	2	8	8	8	8	8	8	8	8	8	0 0 8		
26	1 3	0 0 1 6	2 9	2 9	2 9	2 7	2 7	2 7		8	2	2	2	2	2	2	2	8	8	8	8	8	8	8	8	8	0 0 8		
26	1 6	0 0 1 1	2 9	2 9	2 8	2 8	2 8	2 8		8	2	2	2	2	2	2	2	8	8	8	8	8	8	8	8	8	0 0 8		
26	1 9	0 0 0 8	2 8	2 8	2 8	2 8	2 8	2 8		8	2	2	2	2	2	2	2	8	8	8	8	8	8	8	8	8	0 0 8		
26	2 2	0 0 0 5	2 8	2 8	2 8	2 8	2 8	2 8		8	2	2	2	2	2	2	2	8	8	8	8	8	8	8	8	8	0 0 8		
26	0 1	0 0 0 3	2 8	2 8	2 8	2 8	2 8	2 8		8	2	2	2	2	2	2	2	8	8	8	8	8	8	8	8	8	0 0 8		
26	0 4	0 0 0 4	2 8	2 8	2 8	2 8	2 8	2 8		8	2																		

RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF MACQUARIE ISLAND
JULY 1949

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

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF AUGUST 1949																							
DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	WIND DIRECTION	WIND SPEED	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION		ANEMOMETER	MAXIMUM GUST		
													Oktas	ww	W	Oktas	C _L	h	C _M	C _H	Direction	SPEED	Hours
LST.	Mbs.		°F	°F	°F	x 10	Kts.	VV															
01	0 1	0 0 6 0	5 4	5 0	2 7	2 6	2 3	8 1	8	0 5	2	8	5	4	6	6	6	6	6	6	6	0 1 0	
01	0 4	0 0 5 6	5 1	2 9	2 6	2 6	2 3	4 0	7	0 5	7	7	5	4	6	6	6	6	6	6	6		
01	0 7	0 0 4 8	5 0	2 7	2 1	2 7	2 3	6 4	8	0 5	7	8	4	4	7	7	7	7	7	7	7		
01	1 0	0 0 4 6	5 2	3 1	2 9	2 8	2 4	2 4	6	7 2	7	6	8	4	6	6	6	6	6	6	6		
01	1 3	0 0 5 2	5 3	3 2	2 9	2 7	2 6	8 1	7	2 2	7	7	8	4	7	7	7	7	7	7	7		
01	1 6	0 0 2 9	5 3	5 2	2 9	2 7	2 5	8 0	7	8 5	7	6	8	4	7	7	7	7	7	7	7		
01	1 9	0 0 2 9	5 4	5 3	5 0	2 7	2 0	8 1	7	2 6	7	7	8	4	7	7	7	7	7	7	7		
01	2 2	0 0 2 8	5 0	3 5	3 3	2 8	1 8	8 0	8	2 0	7	8	8	4	7	7	7	7	7	7	7		
02	0 1	0 0 0 8	5 7	5 6	5 4	2 9	1 7	4 0	8	5 1	5	5	5	4	7	7	7	7	7	7	7		
02	0 4	9 9 9 5	5 8	5 7	5 6	2 9	1 9	2 4	8	5 2	5	6	6	4	7	7	7	7	7	7	7		
02	0 7	9 9 6 1	5 8	5 7	5 6	2 9	1 9	2 4	8	5 2	5	6	6	4	7	7	7	7	7	7	7		
02	1 0	9 9 9 1 7	3 4	3 0	3 8	3 2	2 4	1 6	8	2 0	5	6	6	4	7	7	7	7	7	7	7		
02	1 3	9 9 9 0 6	5 7	5 6	5 5	2 7	2 3	5 4	8	2 0	5	6	6	4	7	7	7	7	7	7	7		
02	1 6	9 9 9 0 6	5 6	5 5	5 6	2 7	2 2	1 6	8	5 2	2	6	5	3	7	7	7	7	7	7	7		
02	1 9	9 9 4 9	5 3	5 2	5 0	1 8	4 0	8	2 6	7	6	5	4	7	7	7	7	7	7	7	7		
02	2 2	9 9 8 0	5 0	3 1	3 0	1 6	1 2	4 0	7	8 5	7	7	8	4	7	7	7	7	7	7	7		
03	0 1	0 0 0 4	5 0	2 8	2 7	2 3	1 6	0 5	8 1	8	2 2	7	8	4	7	7	7	7	7	7	7		
03	0 4	0 0 2 4	5 0	2 8	2 7	2 0	1 6	0 5	8 1	7	0 1	2	7	8	4	7	7	7	7	7	7		
03	0 7	0 0 3 2	5 0	2 7	2 1	2 6	1 6	0 3	8 2	8	0 3	2	3	0	7	7	7	7	7	7	7		
03	1 0	0 0 2 1	5 1	2 8	2 5	2 9	1 6	0 2	8 2	8	0 3	2	7	5	4	7	7	7	7	7	7		
03	1 3	9 9 7 2	5 1	3 0	3 5	2 9	1 6	0 2	8 0	8	0 3	2	7	5	4	7	7	7	7	7	7		
03	1 6	9 9 3 2	5 6	5 5	5 6	2 7	2 2	1 6	8	5 2	2	6	5	3	7	7	7	7	7	7	7		
03	1 9	9 8 2 5	4 0	4 0	3 9	3 5	2 2	2 4	8	6 1	6	8	0	7	7	7	7	7	7	7	7		
03	2 2	9 8 0 8	5 4	5 3	5 4	1 7	1 7	0 8	8	1 0	6	8	7	5	3	7	7	7	7	7	7		
04	0 1	9 7 7 3	4 0	3 9	3 9	1 6	1 6	0 8	8	5 0	5	8	7	5	3	7	7	7	7	7	7		
04	0 4	9 7 7 3	4 0	4 0	4 0	1 6	1 6	0 8	8	6 3	5	8	7	2	7	7	7	7	7	7	7		
04	0 7	9 7 2 0	5 9	5 8	5 9	2 9	2 2	0 8	8	0 5	6	7	5	4	7	7	7	7	7	7	7		
04	1 0	9 7 1 8	3 7	3 5	3 5	1 6	1 6	0 8	8	0 3	2	7	5	4	7	7	7	7	7	7	7		
04	1 3	9 7 1 4	3 7	3 5	3 5	1 6	1 6	0 8	8	0 9	4 0	8	8 0	9	7	7	7	7	7	7	7		
04	1 6	9 7 5 0	4 1	4 0	4 0	1 6	1 6	0 8	8	8 0	8 0	8	8 5	7	8	8	8	8	8	8	8		
04	1 9	9 8 0 9	4 2	4 1	4 0	1 6	1 6	0 8	8	8 5	7	8	8 5	7	8	8	8	8	8	8	8		
04	2 2	9 8 6 3	5 9	5 8	5 8	2 9	2 8	4 1	4 0	8	6 8	6	8	8	8	8	8	8	8	8	8		
05	0 1	9 9 4 9	5 4	5 3	5 1	2 8	2 8	3 4	3 2	8	6 1	6	8	8	8	8	8	8	8	8	8		
05	0 4	9 9 8 6	3 2	3 0	3 0	1 6	1 6	0 8	8	6 0	8 0	8	6 0	6	8	8	8	8	8	8	8		
05	0 7	9 9 9 8	5 2	5 0	5 0	1 6	2 4	1 6	8	6 0	6	8	8	8	8	8	8	8	8	8	8		
05	1 0	0 0 4 0	4 1	3 9	3 9	1 6	1 6	0 8	8	5 0	6	8	8	8	8	8	8	8	8	8	8		
05	1 3	0 0 4 0	4 1	4 0	4 0	1 6	1 6	0 8	8	5 0	5	8	5	4	7	7	7	7	7	7	7		
05	1 6	0 0 4 0	4 1	4 0	4 0	1 6	1 6	0 8	8	5 0	5	8	5	4	7	7	7	7	7	7	7		
05	1 9	9 9 9 0	4 1	4 0	4 0	1 6	1 6	0 8	8	5 0	5	8	5	4	7	7	7	7	7	7	7		
06	0 1	9 9 7 7	4 1	4 1	4 1	1 6	1 6	0 8	8	5 0	6	8	5	4	7	7	7	7	7	7	7		
06	0 4	9 9 7 4	4 1	4 1	4 1	1 6	1 6	0 8	8	5 0	6	8	5	4	7	7	7	7	7	7	7		
06	0 7	9 9 7 4	4 1	4 1	4 1	1 6	1 6	0 8	8	5 0	6	8	5	4	7	7	7	7	7	7	7		
06	1 0	9 9 6 8	4 2	4 2	4 1	1 6	1 6	0 8	8	5 0	6	8	5	4	7	7	7	7	7	7	7		
06	1 3	9 9 1 6	4 2	4 2	4 2	1 6	1 6	0 8	8	5 0	5	8	5	4	7	7	7	7	7	7	7		
06	1 6	9 9 0 9 5	4 2	4 2	4 2	1 6	1 6	0 8	8	5 0	5	8	5	4	7	7	7	7	7	7	7		
06	1 9	9 9 1 8	5 0	3 8	3 7	2 7	2 7	0 9	1 6	8	5 0	6	8	5	4	7	7	7	7	7	7		
07	0 1	9 9 6 7	5 0	5 7	5 7	3 6	2 8	0 9	2 4	8	0 2	2	8	5	4	7	7	7	7	7	7		
07	0 4	9 9 4 8 6	3 7	3 5	3 5	1 6	0 9	8 0	1	0 5	5	0	0	0	0	0	0	0	0	0	0		
07	0 7	9 9 4 8 6	3 7	3 5	3 5	1 6	0 9	8 0	1	0 5	5	0	0	0	0	0	0	0	0	0	0		
07	1 0	9 9 9 1	4 0	3 9	3 9	3 3	2 4	0 8	8	0 5	2	7	8	4	7	7	7	7	7	7	7		
07	1 3	9 9 7 0	3 9	3 9	3 7	3 3	1 8	0 8	1	2	0 5	1	1	5	4	7	7	7	7	7	7		
07	1 6	9 9 5 7	5 0	5 0	5 0	2 8	2 8	2 5	0 8	8	0 5	2	6	7	4	7	7	7	7	7	7		
07	1 9	9 9 8 7 2	4 0	4 0	4 0	3 4	3 4	3 9	4 0	8	5 1	5	8	7	4	7	7	7	7	7	7		
07	2 2	9 9 9 0 8	3 9	3 5	3 5	3 0	2 4	2 0	8 0	1	0 5	5	0	0	0	0	0	0	0	0	0		
08	0 1	9 9 3 4	5 1	5 0	5 4	2 9	2 9	2 1	8 1	1	0 1	1	1	5	4	7	7	7	7	7	7		
08	0 4	9 9 7 4	4 1	4 1	4 1	3 4	2 4	1 6	8	5 2	5	8	7	4	7	7	7	7	7	7	7		
08	0 7	0 0 0 0	5 0	5 0	5 0	2 9	2 9	2 1	8 3	1	0 2	1	1	5	4	7	7	7	7	7	7		
08	1 0	0 0 1 8	5 0	5 0	5 0	2 6	1 7	0 8	8	8 5	2	7	8	5	0	0	0	0	0	0	0		
08	1 3	0 0 3 0	3 7	3 7	3 6	2 9	1 5	0 8	1	6	0 2	2	5	0	4	7	7	7	7</td				

**RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF MACQUARIE ISLAND
AUGUST 1949**

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	DIRECTION	WIND SPEED *x10	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	CLOUD DIRECTION			MAXIMUM TEMPERATURE °F	PRECIPITATION	ANEMOMETER	MAXIMUM GUST DIRECTION SPEED *x10 Kts.	SUNSHINE Hours			
													LOW CLOUD TYPE	MIDDLE CLOUD TYPE	HIGH CLOUD TYPE								
11	0 1	9 9 0 6	4 2	4 2	4 0	5 4	5 0	R 0	8	5 0	2	8	6	4	7	8	7						
11	0 4	9 9 0 5	4 0	4 2	5 0	3 4	3 2	R 0	7	0 2	2	1	5	4	7	8	7						
11	0 7	9 9 0 5	4 1	4 1	4 1	5 4	5 0	R 0	8	5 1	3	8	4	4	7	8	7						
11	1 0	9 9 0 4	4 1	4 1	4 1	5 4	5 0	R 0	1 6	8	6 1	6	6	7	3	2	8						
11	1 3	9 9 0 4	4 2	4 2	4 0	5 4	2 8	R 0	7	0 5	6	5	7	3	7	8	7						
11	1 6	9 9 0 4	4 1	4 0	4 0	5 4	2 8	R 0	8	0 5	2	6	5	4	7	8	7						
11	1 9	9 9 0 4	4 3	3 7	3 2	5 2	3 0	R 0	0	0 5	1	0	0	0	9	0	0	0					
11	2 2	9 7 7 0	4 3	3 6	3 5	3 4	4 2	R 0	8	6 3	2	8	7	3	2	8	8		4 5	3 9	0 0 1 0	6 2 4	3 2 5 5 0 2 3
12	0 1	9 8 3 2	3 9	3 7	5 2	5 2	3 0	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
12	0 4	9 8 4 0	3 9	3 7	5 3	5 3	2 9	R 0	0	0 5	0	0	0	0	9	0	0	0	0	0			
12	0 7	9 8 4 0	3 8	3 6	5 2	5 2	2 3	R 1	3	0 2	1	3	8	6	5	0	0	0	0	0			
12	1 0	9 8 4 0	3 8	3 6	5 2	5 2	2 5	R 0	6	2 5	8	5	8	7	7	7	7						
12	1 3	9 8 4 0	3 7	3 5	5 2	5 2	2 4	R 1	4	2 5	8	4	8	5	0	0	0	0	0				
12	1 6	9 8 4 0	3 8	3 7	5 0	5 0	2 6	R 0	0	0 5	2	6	5	4	7	8	7						
12	1 9	9 8 4 0	3 8	3 7	5 0	5 0	2 6	R 1	5	0 2	2	5	8	5	0	0	0	0	0				
12	2 2	9 8 4 0	3 7	3 5	5 2	5 2	2 4	R 1	4	2 5	8	4	8	5	0	0	0	0	0				
12	2 5	9 8 4 0	3 8	3 7	5 0	5 0	2 6	R 0	0	0 5	1	0	0	0	9	0	0	0	0				
13	0 1	9 9 0 6	4 2	4 2	4 0	5 4	3 0	R 0	0	0 5	1	0	0	0	9	0	0	0	0				
13	0 4	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	0	0 5	1	1	2	8	5	0	0	0	0				
13	0 7	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
13	1 0	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
13	1 3	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
13	1 6	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
13	1 9	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
13	2 2	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
13	2 5	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
14	0 1	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
14	0 4	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
14	0 7	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
14	1 0	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
14	1 3	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
14	1 6	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
14	1 9	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
14	2 2	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
14	2 5	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
15	0 1	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
15	0 4	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
15	0 7	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
15	1 0	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
15	1 3	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
15	1 6	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
15	1 9	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
15	2 2	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
15	2 5	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
16	0 1	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
16	0 4	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
16	0 7	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
16	1 0	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
16	1 3	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
16	1 6	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
16	1 9	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
16	2 2	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
16	2 5	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
17	0 1	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
17	0 4	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
17	0 7	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
17	1 0	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
17	1 3	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
17	1 6	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
17	1 9	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
17	2 2	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
17	2 5	9 9 0 5	4 0	4 2	4 0	5 4	3 2	R 0	1	0 5	1	1	5	4	4	0	0	0	0	0			
18	0 1	9 9 0 5	4 0	4 2	4 0	5 4	3																

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF AUGUST 1949																											
DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	DIRECTION	WIND SPEED	VISIBILITY	TOTAL CLOUD		PRESENT WEATHER		LOW CLOUD		CLOUD DIRECTION		MAXIMUM TEMPERATURE		MINIMUM TEMPERATURE		PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE		
									*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
21	01	9 6 7 9	4 0	3 9	3 8	3 5	2 4	8 0	8	5 0	2	0	6	3													
21	04	9 6 6 1	3 8	3 8	3 7	3 2	2 4	8 1	5 0 2	2	5	6	3														
21	07	9 6 9 0	3 4	3 4	3 2	2 8	2 8	8 1	5 0 5	2	7	8	4														
21	10	9 7 2 3	3 5	3 2	3 1	2 9	2 6	8 0	5 0 5	2	7	6	4														
21	13	9 7 3 1	3 5	3 2	2 5	2 9	2 4	8 1	5 0 5	2	7	6	4														
21	16	9 7 1 3	3 4	3 4	3 3	2 8	1 8	1 2	8 1	7 1	2	0	3														
21	19	9 6 6 1	3 8	3 8	3 8	3 6	2 3	1 2	8 1	6 3	6	0	3														
22	01	9 5 6 2	3 7	3 7	3 6	3 2	3 0	8 0	6 0	8 0	6	5	4														
22	04	9 5 2 8	3 8	3 6	3 7	3 2	3 7	4 0	8 1	8 1	6	5	4														
22	07	9 5 6 5	3 4	3 2	2 8	2 7	3 0	4 0	8 2	8 1	8 0	8	4														
22	10	9 7 1 4	3 2	2 9	2 4	2 7	3 3	4 0	8 2	2 2	7	8	4														
22	13	9 7 9 7	3 3	2 8	2 1	2 1	8 1	7	0 2	2	6	6	5														
22	16	9 9 2 8	3 3	2 8	2 4	2 9	1 2	8 1	7	0 2	2	4	4														
22	19	9 8 3 6	3 5	3 0	2 4	3 5	1 5	8 1	1 0 5	2	2	1	1														
22	22	9 8 1 1	3 5	3 2	2 6	3 2	2 2	8 1	3 0 5	3	3	3	2														
23	01	9 7 9 4	3 2	3 2	3 1	2 9	1 1	8 1	4 2	2 2	7	5	5														
23	04	9 7 9 1	3 3	3 1	2 7	3 0	2 7	8 2	3 0 1	7	5	5	5														
23	07	9 8 0 8	3 2	3 0	2 5	2 9	1 9	8 2	1 0 1	1	1	1	1														
23	10	9 8 2 0	3 2	3 0	2 7	2 9	3 0	4 0	7 8 5	7	5	5	5														
23	13	9 8 2 0	3 2	3 1	2 9	2 8	8 1	7	8 5	7	5	5	5														
23	16	9 8 4 7	2 9	2 5	1 8	2 6	8 1	7	2 2	7	7	5	5														
23	19	9 8 7 0	2 9	2 5	1 4	2 8	2 2	8 1	2 2	2	7	8	5														
23	22	9 9 2 3	2 9	2 7	2 2	2 0	1 4	1 6	4 7 2	7	7	5	5														
24	01	9 9 6 4	3 2	2 9	2 4	2 6	1 6	8 2	3 0 2	7	5	5	5														
24	04	9 9 9 6	3 2	2 8	2 8	1 9	2 7	2 0	6 0 2	1	5	5	5														
24	07	9 9 0 0	3 2	3 0	2 2	2 9	1 7	8 1	8 0 5	2	5	5	5														
24	10	9 9 7 7	3 5	3 5	3 5	2 8	2 8	8 1	8 0 5	5	5	5	5														
24	13	9 9 3 1	3 5	3 5	3 7	3 2	3 0	4 0	8 5 1	7	3	7	3														
24	16	9 9 0 3	3 5	3 9	3 9	3 2	2 3	3 2	8 6 1	6	2	2	2														
24	19	9 8 8 0	3 5	3 9	3 9	3 2	2 6	4 0	7 2 1	6	2	2	2														
24	22	9 8 6 0	3 5	3 9	3 9	3 2	2 5	3 2	8 6 0	6	6	6	7														
25	01	9 8 5 4	3 5	3 6	3 5	3 2	2 9	1 9	8 1	7 0 5	6	5	6	7													
25	04	9 8 4 0	3 5	3 4	3 2	3 0	2 5	3 0	7 0	7	6	6	6														
25	07	9 8 9 2	3 5	3 5	3 5	3 2	2 5	2 1	1 0	8 0	5 8 5	7	5	5	4												
25	10	9 8 8 2	3 5	3 5	3 5	2 9	2 0	1 9	2 2	8 1	7 2 2	7	7	6	4												
25	13	9 9 7 8	3 5	3 5	3 5	2 0	1 2	8 2	4 0 2	2	7	4	6														
25	16	9 9 9 5	3 5	3 1	3 1	2 5	2 5	8 2	7 2 2	7	6	6	5														
25	19	9 9 8 2	3 5	3 1	3 1	2 8	1 1	8 0	8 7 0	7	6	6	4														
25	22	9 9 4 9	3 4	3 5	3 5	3 2	2 7	2 1	1 6	8 7 1	7	6	7	3													
26	01	9 9 1 5	3 5	3 5	3 5	3 2	2 9	1 9	8 1	7 0 2	7	6	7	4													
26	04	9 9 0 7	3 5	3 7	3 5	3 6	2 6	3 0	8 0	5 0 2	5	5	5	4													
26	07	9 9 1 9	3 5	3 6	3 4	3 2	2 8	2 8	8 0	8 8 5	7	5	5	4													
26	10	9 9 4 1	3 5	3 5	3 0	3 0	2 7	2 8	8 2	7 0 2	2	5	5	4													
26	13	9 9 1 8	3 5	3 8	3 5	2 9	2 4	8 1	8 0 2	2	5	5	5														
26	16	9 8 5 9	4 1	4 1	4 1	4 1	2 9	3 0	4 0	8 5 3	5	5	5	4													
26	19	9 8 6 8	4 0	4 0	4 0	4 0	2 9	2 4	4 0	8 5 3	5	5	5	4													
26	22	9 9 0 4	3 9	3 9	3 6	3 1	2 7	2 4	4 0	8 5 1	5	5	5	4													
27	01	9 9 2 1	3 5	3 7	3 5	3 2	2 6	3 0	8 0	3 0 1	2	5	5	4													
27	04	9 9 1 2	3 5	3 4	3 4	2 7	2 0	8 1	5 0 2	1	5	5	4														
27	07	9 8 6 9	3 5	3 5	3 5	3 2	2 9	2 4	8 1	8 6 1	6	5	6	3													
27	10	9 8 6 9	3 5	3 1	2 4	2 8	2 1	8 2	5 1 5	7	5	5	4														
27	13	9 7 7 8	4 2	4 2	4 2	3 1	3 9	1 6	8 6 1	6 1 6	7	7	7	3													
27	16	9 7 3 7	4 2	4 2	4 2	3 1	4 0	1 6	8 6 0	6 0 6	7	7	7	3													
27	19	9 6 9 0	4 2	4 2	4 2	3 1	4 9	2 4	7 6	6 0 6	6	6	7	3													
28	01	9 7 5 8	3 5	3 5	2 9	2 7	5 0	4 0	7 8 1	6	7	8	4														
28	04	9 8 4 4	3 1	2 9	2 4	3 2	8 0	8 3 8	5 7	3	2	4	4														
28	07	9 8 6 6	3 2	2 9	2 4	2 4	2 4	8 1	3 7 0	7	5	5	4														
28	10	9 8 6 9	3 3	3 1	2 4	2 8	2 1																				

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF AUGUST 1949

DAY	HOUR	STATION LEVEL PRESSURE Mbs.	WIND		DEW POINT °F	DEW POINT °x10 Kts.	VISIBILITY VV	TOTAL CLOUD Oktas	PRESENT WEATHER ww	PAST WEATHER W	AMOUNT Oktas	TYPE CL	HEIGHT h	CLOUD DIRECTION			MAXIMUM TEMPERATURE °F	MINIMUM TEMPERATURE °F	PRECIPITATION Points	ANEMOMETER Miles	MAXIMUM GUST		SUNSHINE Hours					
			DIRECTION °F	SPEED Kts.										LOW CLOUD CM	MIDDLE CLOUD CH	HIGH CLOUD CH	DIRECTION °x10 Kts.				SPEED Kts.							
5 1	C 1	9 4 4 4 4	4 1	4 0	4 0	3 1	2 5	6 4	8	0 5	2	8	5	4	7	7	7	7	7	7	7	4 2	3 3	0 0 2 3	6 1 6	3 2	4 7	
5 1	C 4	9 9 1 5	4 0	4 0	4 0	3 2	2 8	1 6	8	6 1	6	8	5	4	7	7	7	7	7	7	7							
5 1	O 7	9 9 5 6	4 0	4 0	4 0	3 1	2 5	4 0	8	6 0	6	8	5	4	7	7	7	7	7	7	7							
5 1	I 0	9 9 7 6	4 1	4 1	4 1	3 1	3 1	4 0	8	6 0	6	8	5	4	7	7	7	7	7	7	7							
5 1	I 5	9 9 7 1	4 1	4 1	4 1	3 1	2 0	4 0	8	5 1	5 1	5	5	4	7	7	7	7	7	7	7							
5 1	I 9	9 9 7 3	4 0	4 0	4 0	2 6	1 6	0 6	8	5 1	5 1	5	5	4	7	7	7	7	7	7	7							
5 1	N	9 9 6 7	3 6	3 6	3 7	2 7	1 5	0 6	8	5 1	5 1	5	5	4	7	7	7	7	7	7	7							

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF																			MACQUARIE ISLAND SEPTEMBER 1949										
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	ANENOMETER	MAXIMUM GUST		SUNSHINE				
		LST.	Mbs.	*°F	*°F	*°F	*°F		" x 10	Kts.	VV	Oktas	WW	W	Oktas	C _L	h	C _M	C _H	"°F	"°F	Points	Miles	" x 10	Kts.				
01	01	9 8 7 4	3 3	3 1	2 7	2 6	2 3	8 2	5	2 3	7	5	8	4	3	1	6	6	6	6	6	6	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		
01	04	9 8 8 8	3 3	3 0	2 3	2 7	2 4	8 0	4	2 6	7	4	2	4	0	0	6	0	0	6	0	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		
01	07	9 9 2 7	5 2	5 0	2 6	2 3	0 9	8 1	4	0 2	7	4	2	4	0	0	5	0	0	5	0	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		
01	10	9 9 7 1	5 3	5 1	2 7	2 5	1 7	4 0	5	8 5	7	5	3	3	5	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		
01	13	0 0 0 7	5 5	5 2	2 5	2 7	2 2	8 2	6	2 6	7	6	3	4	6	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		
01	16	0 0 4 4	5 5	5 2	2 5	2 7	1 1	8 1	6	2 6	7	6	3	4	6	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		
01	19	0 0 7 6	3 4	3 1	2 5	2 7	1 5	8 1	6	0 1	7	6	4	5	6	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		
02	01	0 0 9 9	5 5	5 2	2 6	2 6	1 9	8 1	6	0 2	7	2	8	4	5	6	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
02	04	0 1 1 5	5 6	5 3	2 9	2 7	1 4	8 1	8	0 2	7	2	8	4	5	6	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
02	07	0 1 2 3	3 8	3 4	2 7	2 9	2 0	R	7	0 2	2	7	4	5	6	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		
02	10	0 1 1 3	3 8	3 7	3 3	3 1	1 7	R	8	0 5	2	7	5	6	6	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		
02	13	0 0 9 3	3 9	3 8	3 8	3 2	2 2	R	8	0 5	2	7	5	6	6	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0		
02	16	0 0 5 4	4 0	5 9	5 8	5 5	2 1	R	8	0 5	2	7	5	4	7	7	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
02	19	0 0 2 8	4 1	4 1	4 0	5 3	3 0	R	6	4	2	5	5	5	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
02	22	0 9 9 5	4 2	4 2	4 2	3 5	1 6	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
03	01	9 9 9 3	4 2	4 2	4 2	3 5	1 6	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
03	04	9 9 9 1	4 2	4 2	4 2	3 5	1 6	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
03	07	0 0 0 0	4 2	4 2	4 2	3 5	1 6	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
03	10	0 0 0 5	4 1	4 1	4 1	3 5	1 5	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
03	13	0 0 1 9	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
03	16	0 0 0 2	4 1	4 1	4 1	3 3	0 6	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
03	19	9 9 9 6	4 1	4 1	4 1	3 3	0 6	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	02	9 9 8 4	4 1	4 2	4 2	3 5	1 6	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	05	0 0 0 0	4 2	4 2	4 2	3 5	1 6	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	08	0 0 0 5	4 1	4 1	4 1	3 5	1 5	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	11	0 0 1 5	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	14	0 0 1 9	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	17	0 0 2 4	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	20	0 0 2 8	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	23	0 0 3 2	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	26	0 0 3 6	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	29	0 0 4 0	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	32	0 0 4 4	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	35	0 0 4 8	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	38	0 0 5 2	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	41	0 0 5 6	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	44	0 0 6 0	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	47	0 0 6 4	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	50	0 0 6 8	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	53	0 0 7 2	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	56	0 0 7 6	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	59	0 0 8 0	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	62	0 0 8 4	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2	2	8	0	0	5	0	0	5	0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
05	65	0 0 8 8	4 1	4 1	4 1	3 4	0 8	R	8	0 5	2	7	5	3	2														

**RESULTS OF SURFACE OBSERVATIONS AT
MACQUARIE ISLAND
FOR THE MONTH OF SEPTEMBER 1949**

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF SEPTEMBER 1949																									
DAY	HOUR	STATION LEVEL PRESSURE		WIND BULB		WET BULB		DEW POINT °F	DEW POINT °F	WIND		VISIBILITY	LOW CLOUD		CLOUD DIRECTION		TEMPERATURE		PRECIPITATION	ANEMOMETER	MAXIMUM GUST				
		Mbs.	"F	"F	"F	"F	"x10			Kts.	VV	Oktas	ww	W	Oktas	C _L	h	C _M	C _H	"F	"F	Direction	Speed "x10	Kts.	Sunshine
LST.																									
11	0 1	9 9 0 9	3 6	3 5	3 6	2 6	1 2	8 0	8	5 1	5	8	6	3	3	0	0	6	6	0	0				
11	0 4	9 9 2 7	3 6	3 4	5 1	2 7	1 4	8 2	4	0 1	2	4	8	3	3	0	0	6	6	0	0				
11	0 7	9 9 4 0	3 6	3 5	3 4	2 8	2 0	8 1	8	0 5	2	5	4	4	4	7		6	6	0	0				
11	1 0	9 9 4 4	3 9	3 9	3 9	3 1	2 1	0 6	8	1 0	5	8	6	2	2	5		7	7						
11	1 3	9 9 7 6	3 6	3 5	3 0	2 5	1 7	8 1	8	0 1	7	6	5	5	5			6							
11	1 6	0 0 0 7	3 6	3 4	3 4	2 0	2 7	1 7	8 1	8	0 2	2	6	8	5	5			5						
11	1 9	0 0 2 5	3 6	3 5	3 5	2 5	1 9	8 1	3	0 1	2	2	5	5	5			1	5	5	0				
11	2 2	0 0 4 4	3 5	3 5	3 2	2 6	1 9	8 2	2	1	0 1	7	1	2	5	5		0	6	6	0	0	4 0	0 2 2	
12	0 1	0 0 5 0	3 5	3 4	3 3	2 7	1 7	8 2	2	0	1	7	2	4	6		0	6	6	0	0				
12	0 4	0 0 5 2	3 5	3 1	2 2	2 6	3 0	8 2	7	0	1	7	7	8	6		0	6	6	0	0				
12	1 0	0 0 5 8	3 5	3 4	3 4	2 1	2 6	3 0	8	0 2	2	8	8	8	6			6	6	0	0				
12	1 3	0 0 3 3	3 9	3 7	3 3	2 9	2 3	8 2	8	0 2	2	4	8	8	6		7	6	6	0	0				
12	1 6	0 0 1 0	4 0	4 0	3 8	5 3	5 1	2 6	8 1	8	1 5	2	6	6	6		7	7	7	7					
12	1 9	9 9 9 1	3 9	3 8	3 6	3 1	2 5	8 0	7	0 5	8	5	5	5	5		7	7	7	7					
12	2 2	9 9 7 5	4 0	3 9	3 8	3 1	2 6	2 4	8	5 1	5	8	7	7	5		7	7	7	7					
13	0 1	9 9 4 7	4 0	3 9	3 8	3 2	2 6	3 2	8	5 0	5	8	7	2	3		7	7	7	7					
13	0 4	9 9 4 5	3 9	3 9	3 9	2 7	2 8	3 0	8	3	2	5	3	5	5		0	6	6	0	0				
13	0 7	9 9 5 5	4 0	3 7	3 4	2 9	3 0	8	6	0	5	2	6	5	5										
13	1 3	9 9 3 9	3 4	3 9	3 9	3 0	1 5	1 6	8	5 0	5	8	7	3	3			7	7						
13	1 6	9 9 2 3	3 7	3 5	3 6	2 6	1 2	2 4	8	6 1	6	8	7	3	3										
13	1 9	9 9 4 1	3 6	3 4	3 1	2 5	1 9	8 2	1	0 1	6	1	5	3	3			6	6	0	0				
13	2 2	9 9 7 0	3 6	3 1	2 6	2 4	1 8	8 2	2	0	1	2	5	4	4		0	6	6	0	0	4 1	3 5	0 0 2	
14	0 1	9 9 8 1	3 8	3 5	3 3	2 7	1 4	8 1	5	0 2	1	5	5	4	4			6	6	0	0	5 1	1	3 1	
14	0 4	9 9 8 5	3 9	3 7	3 3	2 7	1 6	8 1	8	0 3	1	7	5	4	3			6	6	0	0				
14	0 7	9 9 7 9	3 8	5 7	5 5	2 9	2 0	8 1	8	0 2	5	5	5	5	3			6	6	0	0				
14	1 0	9 9 8 4	3 8	5 7	5 6	2 6	1 7	8 2	6	0 2	5	5	5	5	3			6	6	0	0				
14	1 3	9 9 8 6	4 1	4 0	3 7	2 9	1 5	8 3	6	0 2	2	4	5	5	4		0	6	6	6	0				
14	1 6	9 9 8 2	4 0	3 9	3 9	2 8	2 2	8 0	7	8 0	8	7	6	6	6			6	6	6	0				
14	1 9	0 0 0 4	3 8	5 7	5 6	2 6	2 4	8 1	8	0 5	8	8	8	8	4			6	6	6	0	4 2	3 5	0 0 3 1	
14	2 2	0 0 1 9	3 7	3 5	3 2	2 5	2 0	8 1	7	0	5	5	7	8	4			6	6	6	0	4 5	8	2 6	
15	0 1	0 0 2 8	3 7	3 5	3 5	2 7	1 6	8 0	8	0	5	5	8	8	3			6	6	6	0				
15	0 4	0 0 2 8	3 8	3 8	3 7	2 8	1 1	6 4	5	2	0	5	5	5	3			6	6	6	0				
15	0 7	0 0 3 0	3 8	3 8	3 1	1 2	4 0	8 0	5	0	5	8	6	6	3			6	6	6	0				
15	1 0	0 0 2 4	3 9	3 9	3 9	3 2	1 6	8 0	6	0	2	2	4	5	5			6	6	6	0				
15	1 3	0 0 0 9	4 1	4 0	3 9	3 2	1 7	8 2	6	0	1	2	4	8	3		3	6	7	7	8				
15	1 6	9 9 9 3	4 1	5 9	5 8	3 2	1 6	8 2	8	0 3	1	5	5	6				7	7						
15	1 9	9 9 8 5	4 1	4 1	4 1	3 3	1 9	8 4	8	6 0	6	8	7	1				7	7						
15	2 2	9 9 9 4	4 0	4 0	4 0	3 3	0 8	1 6	8	1 0	5	5	7	1				7	7						
16	0 1	9 9 9 8	4 1	4 1	4 1	3 2	1 4	8 0	8	0	5	5	8	7	1			7	7						
16	0 4	0 0 1 5	4 1	4 1	4 1	3 3	0 7	0 8	8	1 0	5	5	8	7	1			7	7						
16	0 7	0 0 4 9	3 5	3 4	3 2	1 3	2 8	8 1	3	0 1	5	5	5	6	0	0	3	0	0	0	0				
16	1 0	0 0 2 4	3 9	3 9	3 9	3 2	1 6	8 0	6	0	1	2	2	5	6			3	0	0	0				
16	1 3	0 0 0 9	4 1	4 0	3 9	3 2	1 7	8 2	8	0 3	1	2	4	8	3			7	7						
16	1 6	0 0 1 2	3 7	3 4	3 4	2 0	0 0	8 0	8	0 2	0	0	0	0	0			7	7						
16	1 9	0 0 1 2	3 0	3 0	3 4	2 1	2 7	0 8	8	0 2	0	0	0	0	0			7	7						
17	0 1	0 0 1 8	3 7	3 5	3 3	2 9	1 1	8 1	8	0	2	0	0	0	0			7	7						
17	0 4	0 1 1 6	5 7	5 7	5 6	3 0	1 4	8 1	8	0	2	0	0	0	0			7	7						
17	0 7	0 1 0 7	5 8	5 7	5 7	3 2	1 9	8 2	2	0	2	1	1	6	3		5	7	0						
17	1 0	0 0 9 0	4 0	3 9	5 8	3 2	2 4	8 2	2	0	1	1	1	6	3		4	7	0	0	4	7	0		
17	1 3	0 0 6 0	4 0	4 0	5 9	5 1	2 4	8 1	7	0	5	1	1	6	3		4	7	0	0	4	7	0		
17	1 6	0 0 2 5	4 0	4 0	4 0	3 2	2 8	4 8	6	6	0	6	6	3	2		7	7	6	6	6	0	0		
17	1 9	9 9 9 6	4 0	4 0	4 0	3 2	2 8	4 0	8	0	5	6	6	6	7			7	7						
17	2 2	9 9 6 0	4 0	4 0	4 0	3 2	2 8	4 0	8	0	5	6	6	6	7			7	7						
18	0 1	9 9 2 5	4 1	4 0	4 0	3 2	3 1	3 1	8 1	6	0	3	2	6	5		0	0	7	0	0	4 1	3 4	0 0 3 4	
18	0 4	9 9 3 3	5 5	5 5	2 5	1 7	0 4	8	8	8 1	8	5	8	8	4			7	7						
18	0 7	9 9 5 1	3 5	3 5	3 4	2 6	1 6	8 0	8	6 8	8	8	8	4				7	7						
18	1 0	9 9 6 5	3 7	3 5	3 3	2 6	2 8	8 1	6	6 8	8	8	8	4				7	7						
18	1 3	9 9 8 8	3 5	3 4	3 2	2 2	1 1	8 1	7	8	5	7	7	9	4			7	7						
18	1 6	0 0 0 8	3 6	3 3	2 7	2 6	0 7	8 2	4	0	2	8	4	4				7	7						
18	1 9	0 0 0 5	3 7	3 4	3 0	2 9	2 1	8 2	7	0	2	2	7	4	6			7	7						
18	2 2	9 9 7 7	3 8	3 5	3 1	3 0	8 1	3	0	2	1	3	4	5	0	0	7	0	0	4 1	3 4	0 0 3 4	6 7 2	3 6	
19	0 1	9 9 2 5	3 9	3 8	3 6	3 1	3 8	8 1	6	0	3	2	6	5	5			6	6	6	0				
19	0 4	9 9 7 0	4 0	3 9	3 8	3 1	3 9	2 4	8	5	5	8	7	5	5			7	7						
19	0 7	9 9 5 1	4 1	4 0	3 9	3 0	3 0	4 0	8	6 1	6	8	7	5	5			7	7						
19	1 0	9 9 3 5	4 1	4 0	3 8	3 0	3 2	3 2	8	6 0	6	8	7	4	4			7	7						
19	1 3	9 9 4 1	4 1	3 9	5 6	2 9	3 0	8 1	7	1	6	7	7	8	4		</td								

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF MACQUARIE ISLAND SEPTEMBER 1949																										
DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB		WET BULB		DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	LOW CLOUD		CLOUD DIRECTION		MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE			
			LST.	Mbs.	°F	°F		DIRECTION	SPEED				AMOUNT	TYPE	HEIGHT	MIDDLE CLOUD	HIGH CLOUD	LOW	MIDDLE	HIGH	°F	Points	Miles	*x10	Kts.	Hours
21	0 1	9 8 6 2	3 5	3 4	3 2	2 6	2 0	4 0	8	2 6	7	B	B	4	4	6	6	0	0	0	0	0	0	0	0	
21	0 4	9 8 7 7	3 3	3 2	3 1	2 6	1 6	8 0	8	2 6	7	B	B	4	4	6	6	0	0	0	0	0	0	0	0	
21	0 7	9 8 9 9	3 3	3 1	2 6	2 5	0 7	8 1	4	0 2	2	4	4	4	0	0	0	0	0	0	0	0	0	0	0	
21	1 0	9 9 1 9	3 5	3 2	2 6	2 7	1 4	8 2	1	0 1	1	1	4	4	0	0	0	0	0	0	0	0	0	0	0	
21	1 3	9 9 2 3	3 7	3 4	2 8	2 8	1 0	8 2	3	0 3	0	0	0	0	9	0	0	1	0	0	0	0	0	0	0	
21	1 6	9 9 2 0	3 6	3 4	2 9	3 0	2 2	8 1	6	1 6	1	3	3	3	8	4	4	9	1	7	6	6	6	6	6	
21	1 9	9 9 2 9	3 2	3 2	3 1	2 8	1 7	8 1	2	2 6	7	B	B	4	4	6	6	0	0	0	0	0	0	0	0	
21	2 2	9 9 5 2	2 9	2 8	2 6	2 6	2 2	0 8	4	4 6	7	B	B	4	4	0	0	0	0	0	0	0	0	0	0	
22	0 1	9 9 7 6	3 0	2 7	2 1	2 0	0 2	8 2	1	2 6	7	B	B	4	4	0	0	0	0	0	0	0	0	0	0	
22	0 4	9 9 7 8	3 3	3 0	2 4	2 9	1 3	8 2	1	0 1	1	1	4	4	5	5	0	0	0	0	0	0	0	0	0	
22	0 7	9 9 7 2	3 4	3 1	2 6	3 2	2 2	8 2	4	0 2	1	1	4	4	5	5	0	0	0	0	0	0	0	0	0	
22	1 0	9 9 5 4	3 7	3 4	2 8	3 2	2 3	8 2	6	0 2	1	1	4	4	5	5	3	1	7	7	6	6	6	6	6	
22	1 3	9 9 1 8	3 8	3 7	3 4	3 1	2 5	8 2	7	2 6	7	B	B	4	4	2	2	0	0	0	0	0	0	0	0	
22	1 6	9 9 6 2	3 9	3 8	3 8	3 0	2 3	8 0	7	2 1	6	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
22	1 9	9 8 2 4	3 9	3 8	3 8	3 0	2 3	8 0	7	2 1	6	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
22	2 2	9 8 1 5	3 8	3 6	3 2	2 9	2 6	8 1	6	2 1	6	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
23	0 1	9 8 0 1	3 4	3 4	3 3	2 7	1 6	8 1	3	2 6	6	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
23	0 4	9 7 7 7	3 5	3 4	3 2	2 9	2 1	8 0	5	2 5	6	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
23	0 7	9 7 7 5	3 2	3 2	3 2	2 7	1 8	8 0	4	2 5	6	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
23	1 0	9 7 6 1	2 8	2 8	2 8	2 4	1 8	8 1	8	2 6	7	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
23	1 3	9 7 5 5	2 9	2 7	2 3	2 4	2 4	8 0	8	5 1	7	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
23	1 6	9 7 6 3	2 7	2 5	2 0	2 6	2 4	8 1	7	2 6	7	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
23	1 9	9 7 8 8	2 5	2 3	1 8	2 2	1 3	8 2	4	2 5	6	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
23	2 2	9 8 1 3	2 9	2 3	1 6	2 1	1 7	8 2	1	2 5	6	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
24	0 1	9 8 2 4	2 9	2 8	2 2	2 2	1 9	8 0	7	8 5	7	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
24	0 4	9 8 6 2	2 9	2 8	2 5	2 3	2 4	8 0	8	7 0	7	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
24	0 7	9 8 8 5	3 0	2 8	2 4	2 4	2 6	8 1	8	0 2	2	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
24	1 0	9 9 1 5	3 0	2 9	2 5	2 4	1 7	8 1	8	0 2	2	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
24	1 3	9 9 2 4	3 5	3 0	2 1	2 6	1 7	8 1	5	0 1	2	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
24	1 6	9 9 1 8	3 5	3 3	2 9	2 6	1 4	8 1	8	0 5	2	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
24	1 9	9 8 9 6	3 8	3 8	3 8	3 0	1 9	8 0	8	5 1	5	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
24	2 2	9 8 5 9	4 0	4 0	3 9	3 0	2 5	8 2	4	2 5	6	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
25	0 1	9 8 6 0	4 0	4 0	4 0	3 0	2 5	8 0	8	5 0	5	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
25	0 4	9 8 3 1	4 0	4 0	4 0	3 0	2 5	8 0	8	6 0	6	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
25	0 7	9 8 2 8	3 6	3 5	3 3	2 9	2 0	8 0	8	8 0	7	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
25	1 0	9 8 1 4	3 6	3 6	3 5	2 8	3 0	8 0	8	8 3	5	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
25	1 3	9 8 0 0	3 7	3 6	3 5	2 9	2 8	8 0	7	8 3	5	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
25	1 6	9 7 9 3	3 6	3 3	2 7	2 7	3 3	8 1	8	8 2	7	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
25	1 9	9 7 5 9	3 6	3 5	3 1	2 9	2 5	8 0	8	8 5	7	B	B	4	4	7	7	0	0	0	0	0	0	0	0	
25	2 2	9 6 6 5	3 7	3 7	3 5	3 2	4 4	8 9	8	6 1	6	B	B	4	4	7	7	1	1	0	0	0	0	0	0	
26	0 1	9 5 9 9	3 2	3 1	2 9	2 6	3 3	8 0	8	7 0	7	B	B	4	4	7	7	1	1	0	0	0	0	0	0	
26	0 4	9 5 8 6	3 4	3 4	3 3	2 8	2 6	8 1	7	2 6	7	B	B	4	4	7	7	1	1	0	0	0	0	0	0	
26	0 7	9 5 8 7	3 2	3 1	2 9	2 6	3 3	8 0	7	8 5	7	B	B	4	4	7	7	1	1	0	0	0	0	0	0	
26	1 0	9 5 5 7	3 2	3 0	2 4	2 6	2 4	8 1	7	8 5	7	B	B	4	4	7	7	1	1	0	0	0	0	0	0	
26	1 3	9 5 6 7	3 1	2 9	2 4	2 5	2 2	8 0	7	8 5	7	B	B	4	4	7	7	1	1	0	0	0	0	0	0	
26	1 6	9 5 6 7	3 1	2 7	1 8	2 6	2 9	8 0	7	8 5	7	B	B	4	4	7	7	1	1	0	0	0	0	0	0	
26	1 9	9 6 4 0	3 0	2 7	2 1	2 6	1 4	8 0	6	8 5	7	B	B	4	4	7	7	1	1	0	0	0	0	0	0	
27	0 1	9 6 3 3	2 8	2 6	2 5	2 3	1 7	1 1	6 4	7	7 0	7	B	B	4	4	7	7	1	1	0	0	0	0	0	0
27	0 4	9 6 4 4	2 7	2 6	2 4	2 2	1 2	1 2	6 4	8	7 0	7	B	B	4	4	7	7	1	1	0	0	0	0	0	0
27	0 7	9 6 5 5	2 6	2 5	2 3	2 5	1 8	1 2	6 2	8	7 3	7	B	B	4	4	7	7	1	1	0	0	0	0	0	0
27	1 0	9 6 5 6	2 7	2 5	2 3	2 0	1 8	1 2	6 2	8	7 3	7	B	B	4	4	7	7	1	1	0	0	0	0	0	0
27	1 3	9 6 8 8	2 4	2 3	2 0	2 2	2 2	8 0	7	8 5	7	B	B	4	4	7	7	1	1	0	0	0	0	0	0	0
27	1 6	9 6 9 5	2 5	2 3	1 8	2 5	2 4	8 0	7	8 5	7	B	B	4	4	7	7	1	1	0	0	0	0	0	0	0
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RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF																			MACQUARIE ISLAND OCTOBER 1949									
DAY	HOUR	STATION LEVEL PRESSURE	WIND			DEW POINT	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	LOW CLOUD	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE						
			DIRECTION	SPEED	DRY BULB °F	WET BULB °F	" x 10 Kts.	VV	Oklas	ww	W	Oklas	C _L	h	C _M	C _H	C _L	C _M	C _H	Points	Miles	DIRECTION	SPEED					
01	0 1	9 9 8 0	3 7	3 6	3 3	2 9	2 8	8 1	5	0 2	1	5	6	5	5	0	6	0	6	7	0	0 1	0 1	0 1	0 1			
01	0 4	9 9 6 2	3 9	3 6	3 1	3 0	3 0	8 1	3	0 1	1	3	4	5	5	0	7	0	7	7	0	0 1	0 1	0 1	0 1			
01	0 7	9 9 8 3	4 1	3 9	3 6	3 1	2 7	8 2	8	0 2	1	5	4	4	4	0	4	7	0	7	7	0	0 1	0 1	0 1	0 1		
01	1 0	9 9 7 7	4 2	4 1	4 1	3 0	3 1	2 8	8 0	8	0 2	1	5	5	5	5	0	4	7	0	7	7	0	0 1	0 1	0 1	0 1	
01	1 3	9 9 5 9	4 3	4 2	4 1	3 2	2 7	8 0	3	0 5	1	5	4	4	4	0	9	7	0	7	7	0	0 1	0 1	0 1	0 1		
01	1 6	9 9 3 7	4 2	4 2	4 1	3 2	2 6	8 1	6	0 3	1	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
01	1 9	9 9 2 5	4 2	4 2	4 1	3 2	2 4	8 0	8	0 5	2	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
01	2 2	9 9 2 3	4 1	4 0	3 9	3 0	2 1	8 0	7	0 5	2	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
02	0 1	9 9 0 9	4 1	4 0	3 9	3 1	1 8	8 0	7	0 5	2	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
02	0 4	9 8 9 4	4 1	4 1	4 0	3 1	2 4	8 1	7	0 5	2	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
02	0 7	9 9 3 6	5 7	5 6	5 4	2 6	2 3	8 1	8	0 2	6	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
02	1 0	9 9 7 2	3 9	3 7	3 3	2 7	2 0	8 1	5	0 3	1	6	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
02	1 3	0 0 0 4	4 0	3 7	3 2	2 7	1 8	8 2	3	0 1	1	6	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
02	1 6	0 0 2 0	4 0	3 8	3 5	2 8	2 2	8 1	7	0 3	1	6	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
02	1 9	0 0 3 5	3 9	3 8	3 6	2 8	1 7	8 2	4	0 2	7	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
02	2 2	0 0 3 9	3 8	3 6	3 5	2 9	2 3	8 2	3	0 2	7	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
03	0 1	0 0 1 5	4 1	4 0	5 9	3 0	2 8	8 1	8	0 5	1	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
03	0 4	9 9 8 5	4 2	4 2	4 1	3 1	3 0	8 0	8	0 5	1	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
03	0 7	9 9 7 7	4 3	5 7	5 6	2 6	2 3	8 1	8	0 2	1	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
03	1 0	9 9 8 5	4 2	4 2	4 2	4 2	3 0	8 2	8	0 5	1	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
03	1 3	9 9 8 9	4 2	3 9	3 9	2 8	2 1	8 1	8	0 5	1	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
03	1 6	9 9 9 3	4 0	3 7	3 7	2 7	1 6	8 0	8	0 5	1	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
03	1 9	9 9 9 3	4 0	3 7	3 7	2 7	1 6	8 0	7	0 5	1	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
03	2 2	0 0 0 9	3 6	3 6	3 5	2 5	2 3	8 1	7	0 5	1	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
04	0 1	0 0 0 9	3 6	3 6	3 5	2 5	2 2	8 0	7	0 5	1	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
04	0 4	0 0 0 7	5 1	5 1	5 0	2 9	2 9	8 1	7	0 5	1	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
04	0 7	0 0 1 2	5 2	5 2	5 1	2 9	2 9	8 1	7	0 5	1	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
04	1 0	0 0 1 8	3 7	3 7	3 6	2 7	2 7	8 2	8	0 5	2	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
04	1 3	0 0 1 9	3 8	3 8	3 6	2 7	2 7	8 2	8	0 5	2	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
04	1 6	0 0 1 9	3 8	3 8	3 6	2 7	2 7	8 2	8	0 5	2	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
04	1 9	0 0 2 2	3 4	3 4	3 1	2 7	1 9	8 0	7	0 5	2	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
04	2 2	0 0 2 2	3 5	3 5	3 2	2 5	2 5	8 1	7	0 5	2	5	5	5	5	0	4	7	0	6	7	0	0 1	0 1	0 1	0 1		
05	0 1	0 0 1 0	3 5	3 5	3 0	2 1	0 6	0 5	8 2	2	0 1	1	2	4	5	5	0	4	0	0	0	0	0 1	0 1	0 1	0 1		
05	0 4	0 0 1 1	3 5	3 5	3 1	2 5	0 4	0 5	8 2	7	0 2	1	2	4	5	5	0	4	0	0	0	0	0 1	0 1	0 1	0 1		
05	0 7	0 0 1 1	5 6	5 6	5 2	2 5	0 4	0 5	8 2	2	0 1	1	2	4	5	5	0	4	0	0	0	0	0 1	0 1	0 1	0 1		
05	1 0	0 0 2 0	4 0	4 0	3 5	2 7	3 4	8 2	1	0 2	1	2	4	5	5	0	4	0	0	0	0	0 1	0 1	0 1	0 1			
05	1 3	0 0 1 7	4 0	4 0	3 5	2 6	3 5	8 3	1	0 3	2	1	2	4	5	5	0	4	0	0	0	0	0 1	0 1	0 1	0 1		
05	1 6	0 0 1 4	3 9	3 9	3 5	3 5	0 8	8 1	6	0 2	2	4	5	5	5	0	4	0	0	0	0	0 1	0 1	0 1	0 1			
05	1 9	0 0 1 7	4 0	4 0	3 5	3 5	0 8	8 1	6	0 2	2	4	5	5	5	0	4	0	0	0	0	0 1	0 1	0 1	0 1			
05	2 2	0 0 1 2	4 0	3 9	3 5	3 5	1 7	8 1	8	0 5	2	6	7	5	5	0	4	0	0	0	0	0 1	0 1	0 1	0 1			
06	0 1	9 9 9 7	4 1	4 1	3 8	3 5	1 7	8 1	8	0 5	2	6	7	5	5	0	4	0	0	0	0	0 1	0 1	0 1	0 1			
06	0 4	9 9 8 2	4 2	4 1	4 0	3 5	1 6	8 0	8	0 5	2	6	7	5	5	0	4	0	0	0	0	0 1	0 1	0 1	0 1			
06	0 7	9 9 7 7	4 3	4 2	4 1	3 3	1 6	8 0	8	0 5	2	6	7	5	5	0	4	0	0	0	0	0 1	0 1	0 1	0 1			
06	1 0	9 9 5 9	4 2	4 2	4 2	4 1	1 1	5 4	8 0	5	0	2	6	7	5	5	0	4	0	0	0	0	0 1	0 1	0 1	0 1		
06	1 3	9 9 7 2	3 6	3 6	3 5	1 7	2 2	1 6	8	6	3	6	8	8	8	8	7	7	7	7	7	7	0	0	0	0		
06	1 6	2 2 0 1	5 6	5 6	3 5	1 9	0 9	4 0	8	6	3	6	8	8	8	8	7	7	7	7	7	7	0	0	0	0		
07	0 1	0 0 6 0	3 6	3 6	3 2	2 6	2 2	1 1	8 2	7	0 1	7	7	4	5	5	0	4	0	0	0	0	0 1	0 1	0 1	0 1		
07	0 4	0 0 9 3	3 6	3 6	3 2	2 5	2 2	0 9	8 2	7	0 2	7	8	5	5	5	0	4	0	0	0	0	0 1	0 1	0 1	0 1		
07	0 7	0 1 2 0	3 6	3 6	3 2	2 7	2 7	1 2	8 1	8	0 2	8	2	8	5	5	4	5	5	5	5	5	0	0	0	0		
07	1 0</																											

		RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF OCTOBER 1949																																							
DAY	HOUR	STATION LEVEL PRESSURE		DRY BULB		WET BULB		DEW POINT		WIND DIRECTION		WIND SPEED		VISIBILITY		TOTAL CLOUD		PRESENT WEATHER		PAST WEATHER		LOW CLOUD		CLOUD DIRECTION		MIDDLE CLOUD		HIGH CLOUD		MAXIMUM TEMPERATURE		MINIMUM TEMPERATURE		PRECIPITATION		ANEMOMETER		MAXIMUM GUST		SUNSHINE	
		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	"x10	Kts.	Hours													
11	0 1	9 9 9 0	4 5	4 2	4 2	5 2	1 8	1 6	8	5 1	5	0	7	2																											
11	0 4	9 9 6 5	4 5	4 3	4 3	3 2	1 9	4 0	8	5 0	5	8	7	2																											
11	0 7	9 9 6 1	4 5	4 2	4 2	5 2	1 7	2 4	8	5 0	5	8	7	2																											
11	1 0	9 9 5 3	4 5	4 2	4 2	3 1	0 5	1 6	8	6 1	6	5	8	7																											
11	1 5	9 9 5 0	4 2	4 2	4 2	1 6	1 6	0 2	9	4 5	5	9	7	2																											
11	1 6	9 9 6 3	4 0	3 9	3 7	2 1	8 0	0 2	8	2 0	4	8	5	4																											
11	1 9	9 9 8 7	5 7	5 7	5 7	1 4	1 9	R 0	8	2 0	5	8	7	2																											
11	2 2	0 0 1 6	3 5	3 4	3 2	1 4	2 3	R 1	6	0 1	2	6	8	4																											
12	0 1	0 0 3 5	3 5	3 5	3 2	2 3	1 1	R 1	1	0 2	1	1	5	4	0																										
12	0 4	0 0 5 0	3 4	3 5	3 0	1 3	2 1	R 1	3	0 5	1	3	5	4	0																										
12	0 7	0 0 7 5	5 5	5 5	5 0	1 5	1 2	R 2	2	0 1	1	2	5	4	0																										
12	1 0	0 0 8 5	3 6	3 4	3 0	1 5	0 9	R 2	0	0 0	0	0	0	0	0																										
12	1 3	0 0 8 8	3 7	3 4	2 9	1 5	0 7	R 2	0	0 0	0	0	0	0	0																										
12	1 6	0 0 9 3	3 8	3 5	3 0	1 2	0 3	R 2	0	0 0	0	0	0	0	0																										
12	1 9	0 1 0 4	3 5	3 3	2 9	0 0	0 0	R 3	1	0 0	3	0	1	6	5	0																									
12	2 2	0 1 1 1	3 4	3 5	3 0	0 0	0 0	R 3	0	0 1	1	0	0	9	0	0																									
13	0 1	0 1 1 1	3 4	3 4	2 9	0 0	0 0	R 2	1	1	3	0	0	9	0	0																									
13	0 4	0 1 0 5	5 5	5 5	5 1	5 1	0 8	R 2	5	0 3	1	5	5	6	0																										
13	0 7	0 1 0 5	4 1	3 8	3 4	3 2	1 0	R 2	7	0 2	1	7	5	5	0																										
13	1 0	0 0 9 4	4 2	4 0	3 5	3 3	1 0	R 2	8	0 2	2	8	5	5	0																										
13	1 3	0 0 8 5	4 3	4 0	3 5	3 2	1 0	R 2	7	0 2	2	8	5	5	0																										
13	1 6	0 0 7 5	4 2	3 9	3 4	3 4	1 1	R 2	8	0 2	2	8	5	5	0																										
13	1 9	0 0 7 5	4 1	3 9	3 5	3 5	0 7	R 2	8	0 2	2	8	5	5	0																										
14	0 1	0 0 6 6	4 1	3 9	3 5	3 5	1 0	R 1	8	0 2	2	8	5	5	0																										
14	0 4	0 0 4 1	4 1	3 9	3 5	3 7	0 6	R 1	8	0 2	2	8	5	5	0																										
14	0 7	0 0 2 6	4 2	3 9	3 5	3 7	0 7	R 1	8	0 2	2	8	5	5	0																										
14	1 0	0 0 1 2	4 2	4 1	4 1	0 7	0 7	R 1	8	0 2	2	8	5	5	0																										
14	1 3	0 0 9 5	4 2	4 2	4 2	4 2	0 9	R 0	9	4 7	5	9	0	0																											
14	1 6	0 0 7 0	4 5	4 5	4 5	4 5	0 9	R 0	9	4 5	5	9	0	0																											
14	1 9	0 0 5 3	4 4	4 4	4 4	4 5	1 0	R 0	9	4 5	4	9	0	0																											
14	2 2	0 0 3 9	4 4	4 4	4 4	4 4	1 0	R 0	9	4 5	4	9	0	0																											
14	2 5	0 0 1 0	4 3	4 3	4 3	4 3	0 5	R 0	9	4 5	4	9	0	0																											
15	0 1	0 0 9 5	4 3	4 3	4 3	4 3	0 0	R 0	9	4 7	4	9	0	0																											
15	0 4	0 0 8 8	4 2	4 2	4 2	4 2	0 6	R 0	9	4 5	4	9	0	0																											
15	0 7	0 0 7 9	4 2	4 2	4 2	4 2	0 6	R 0	9	4 7	4	9	0	0																											
15	1 0	0 0 7 6	4 5	4 5	4 4	4 4	0 6	R 0	9	4 7	4	9	0	0																											
15	1 3	0 0 6 5	4 3	4 1	4 1	4 1	0 6	R 0	9	4 1	4	8	6	1																											
15	1 6	0 0 5 5	4 1	4 1	4 1	4 1	0 6	R 0	9	4 1	4	8	6	1																											
15	1 9	0 0 4 5	4 1	4 1	4 1	4 1	0 6	R 0	9	4 1	4	8	6	1																											
15	2 2	0 0 3 5	4 1	4 1	4 1	4 1	0 6	R 0	9	4 1	4	8	6	1																											
16	0 1	0 0 9 0	4 2	4 2	4 2	4 2	0 6	R 0	9	5 1	5	9	0	0																											
16	0 4	0 0 8 7	3 9	3 8	3 6	3 6	0 6	R 0	9	5 0	5	9	0	0																											
16	0 7	0 0 7 4	3 9	3 8	3 4	3 4	0 6	R 0	9	5 0	5	9	0	0																											
16	1 0	0 0 6 3	4 3	4 1	4 0	4 0	0 6	R 0	9	4 2	2	8	5	4																											
16	1 3	0 0 5 0	4 3	4 3	4 3	4 3	0 6	R 0	9	4 2	2	8	5	4																											
16	1 6	0 0 2 9	5 6	5 6	5 1	5 1	0 6	R 0	9	4 2	2	8	5	4																											
16	1 9	0 0 1 6	5 6	5 6	5 0	5 0	0 6	R 0	9	4 2	2	8	5	4																											
16	2 2	0 0 0 5	5 7	5 7	5 2	5 2	0 6	R 0	9	4 2	2	8	5	4																											
17	0 1	0 0 9 6	4 0	4 0	4 0	3 5	0 5	R 0	9	4 2	2	8	5	4																											
17	0 4	0 0 8 2																																							

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF OCTOBER 1949

DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB	WET BULB	DEW POINT	DIRECTION	WIND SPEED	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER			LOW CLOUD TYPE	CLOUD DIRECTION	HEIGHT	MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST	SUNSHINE		
										LOW	MIDDLE	HIGH											
2 1	0 1	0 0 1 3	4 1	4 1	4 1	3 2	1 7	R 1	5	0 2	1	5	5	5	0	7	7	7	0	0			
2 1	0 4	0 0 1 3	4 1	4 1	4 1	3 2	1 7	R 4	7	0 5	5	5	5	4	7	7	7	7	7	7			
2 1	0 7	0 0 1 3	4 2	4 2	4 1	3 1	1 8	R 0	7	5 0	5	5	5	4	7	7	7	7	7	7			
2 1	1 0	0 0 0 4	4 4	4 4	4 4	4 3	3 5	R 1	7	0 2	2	2	2	7	7	7	7	7	7	7			
2 1	1 3	9 9 6 5	4 4	4 4	4 3	4 2	3 5	R 2	8	0 2	2	2	2	6	4	5	7	6	7	7			
2 1	1 6	9 9 6 5	4 2	4 2	4 1	3 4	1 8	R 2	8	0 2	2	2	2	6	4	5	7	6	7	7			
2 1	1 9	9 9 5 2	4 1	4 1	4 1	3 4	1 6	R 1	8	0 2	2	2	2	6	4	5	7	6	7	7			
2 1	2 2	9 8 8 6	4 1	4 1	4 0	3 4	2 6	R 1	6	0 2	2	2	2	5	4	5	7	6	7	7			
2 1	0 1	9 8 2 7	4 2	4 2	4 2	3 4	2 8	R 0	8	1 0	2	2	2	6	3	3	7	6	7	7	4 4	4 0	
2 1	0 4	9 7 9 4	4 3	4 3	4 3	3 3	2 8	R 2	8	5 1	5	5	5	6	3	3	7	6	7	7			
2 2	0 7	9 8 1 1	4 2	4 2	4 2	3 1	2 4	R 0	8	2 0	5	5	5	4	5	5	7	6	7	7			
2 2	1 0	9 8 2 1	4 2	4 2	4 1	3 2	2 6	R 0	8	8	2 0	5	5	5	4	5	5	7	6	7			
2 2	1 3	9 8 2 3	4 4	4 3	4 1	3 1	2 5	R 0	8	5 0	5	5	5	4	5	5	7	6	7	7			
2 2	1 6	9 8 2 6	4 2	4 1	4 1	3 1	2 5	R 1	8	0 5	2	2	2	8	8	8	5	4	5	7	7		
2 2	1 9	9 8 2 6	4 1	4 1	4 1	3 1	1 9	R 1	8	0 2	2	2	2	6	6	6	5	7	7	7			
2 2	2 2	9 8 3 0	3 9	3 9	3 8	3 0	1 8	R 0	6	8 0	8	6	6	8	4	4	4	0	0	7	4 4	4 0	
2 2	0 1	9 8 4 4	5 7	5 6	5 5	2 6	1 7	R 1	2	2	6	7	2	2	0	0	6	0	0	0	6 4	1	
2 2	0 4	9 8 6 4	3 7	3 7	3 6	2 9	1 2	R 1	6	0 5	7	6	4	5	5	5	7	6	6	6			
2 2	0 7	9 8 9 3	3 5	3 5	3 5	2 5	1 2	R 2	5	2 5	7	5	4	5	5	5	7	6	6	6			
2 2	1 0	9 9 4 1	3 7	3 7	3 6	2 5	1 6	R 2	7	8 5	7	7	8	5	5	5	7	6	6	6			
2 2	1 3	9 9 5 2	4 0	3 9	3 8	2 7	1 6	R 2	4	0 1	2	3	3	8	8	8	6	0	4	6			
2 2	1 6	9 9 7 5	4 0	3 7	3 5	2 6	1 7	R 2	5	2 0	2	2	2	5	5	5	7	6	6	6			
2 2	1 9	9 9 8 2	3 7	3 7	3 6	2 7	2 9	R 0	8	5 0	5	5	5	6	6	6	5	4	5	6			
2 2	2 2	9 9 8 5	3 7	3 6	3 5	2 8	3 0	R 0	8	5 0	5	5	5	6	6	6	5	4	5	6			
2 2	0 1	9 9 8 8	4 0	4 0	3 9	2 9	1 6	R 0	8	0 5	5	5	5	6	6	6	5	4	5	6			
2 2	0 4	9 9 9 3	4 0	4 1	4 1	2 9	2 6	R 2	8	5 1	5	5	5	6	6	6	5	4	5	6			
2 2	0 7	9 9 9 4	4 2	4 2	4 0	2 9	2 2	R 0	8	1 0	1	0	0	8	8	8	7	2	2	6			
2 2	1 0	9 9 9 4	4 4	4 4	4 2	4 0	2 2	R 1	8	5 0	5	5	5	6	6	6	5	4	5	6			
2 2	1 3	9 9 9 5	4 5	4 1	3 8	3 1	2 8	R 0	8	0 2	2	2	2	6	6	6	5	4	5	6			
2 2	1 6	9 9 9 6	4 2	4 1	4 1	3 0	2 6	R 0	8	4 0	5	5	5	6	6	6	5	4	5	6			
2 2	1 9	9 9 9 7	3 7	3 7	3 6	2 7	2 5	R 0	8	0 5	5	5	5	6	6	6	5	4	5	6			
2 2	2 2	9 9 9 8	3 9	3 8	3 5	2 6	1 5	R 0	8	5 1	5	5	5	6	6	6	5	4	5	6			
2 2	0 1	9 9 9 9	3 9	3 9	3 9	2 6	1 5	R 1	8	1 0	1	0	0	8	8	8	7	2	2	6			
2 2	0 4	9 9 9 9	3 9	3 9	3 9	2 6	1 4	R 0	8	1 0	1	0	0	8	8	8	7	2	2	6			
2 2	0 7	9 9 9 9	3 9	3 9	3 9	2 6	1 3	R 1	8	1 0	1	0	0	8	8	8	7	2	2	6			
2 2	1 0	9 9 9 9	3 9	3 9	3 9	2 6	1 2	R 2	8	1 0	1	0	0	8	8	8	7	2	2	6			
2 2	1 3	9 9 9 9	3 9	3 9	3 9	2 6	1 1	R 2	8	1 0	1	0	0	8	8	8	7	2	2	6			
2 2	1 6	9 9 9 9	3 9	3 9	3 9	2 6	1 0	R 2	8	1 0	1	0	0	8	8	8	7	2	2	6			
2 2	1 9	9 9 9 9	3 9	3 9	3 9	2 6	0 9	R 2	8	1 0	1	0	0	8	8	8	7	2	2	6			
2 2	2 2	9 9 9 9	3 9	3 9	3 9	2 6	0 8	R 2	8	1 0	1	0	0	8	8	8	7	2	2	6			
2 2	0 1	9 9 9 9	3 9	3 9	3 9	2 6	0 7	R 2	8	1 0	1	0	0	8	8	8	7	2	2	6			
2 2	0 4	9 9 9 9	3 9	3 9	3 9	2 6	0 6	R 2	8	1 0	1	0	0	8	8	8	7	2	2	6			
2 2	0 7	9 9 9 9	3 9	3 9	3 9	2 6	0 5	R 2	8	1 0	1	0	0	8	8	8	7	2	2	6			
2 2	1 0	9 9 9 9	3 9	3 9	3 9	2 6	0 4	R 2	8	1 0	1	0	0	8	8	8	7	2	2	6			
2 2	1 3	9 9 9 9	3 9	3 9	3 9	2 6	0 3	R 2	8	1 0	1	0	0	8	8	8	7	2	2	6			
2 2	1 6	9 9 9 9	3 9	3 9	3 9	2 6	0 2	R 2	8	1 0	1	0	0	8	8	8	7	2	2	6			
2 2	1 9	9 9 9 9	3 9	3 9	3 9	2 6	0 1	R 2	8	1 0	1	0	0	8	8	8	7	2	2	6			
2 2	2 2	9 9 9 9	3 9	3 9	3 9	2 6	0 0	R 2	8	1 0	1	0	0	8	8	8	7	2	2	6			
2 2	0 1	9 9 9 9	3 9	3 9	3 9	2 5	0 9	R 2	8	0 5	2	2	2	8	8	8	4	4	4	4			
2 2	0 4	9 9 9 9	3 9	3 9	3 9	2 5	0 8	R 2	8	0 5	2	2	2	8	8	8	4	4	4	4			
2 2	0 7	9 9 9 9	3 9	3 9	3 9	2 5	0 7	R 2	8	0 5	2	2	2	8	8	8	4	4	4	4			
2 2	1 0	9 9 9 9	3 9	3 9	3 9	2 5	0 6	R 2	8	0 5	2	2	2	8	8	8	4	4	4	4			
2 2	1 3	9 9 9 9	3 9	3 9	3 9	2 5	0 5	R 2	8	0 5	2	2	2	8	8	8	4	4	4	4			
2 2	1 6	9 9 9 9	3 9	3 9	3 9	2 5	0 4	R 2	8	0 5	2	2	2	8	8	8	4	4	4	4			
2 2	1 9	9 9 9 9	3 9	3 9	3 9	2 5	0 3	R 2	8	0 5	2	2	2	8	8	8	4	4	4	4			
2 2	2 2	9 9 9 9	3 9	3 9	3 9	2 5	0 2	R 2	8	0 5	2	2	2	8	8	8	4	4	4	4			
2 2	0 1	9 9 9 9	3 9	3 9	3 9	2 5	0 1	R 2	8	0 5	2	2	2	8	8	8	4	4	4	4			
2 2	0 4	9 9 9 9	3 9	3 9	3 9	2 5	0 0	R 2	8	0 5	2	2	2	8	8	8	4	4	4	4			
2 2	0 7	9 9 9 9	3 9	3 9	3 9	2 5	0 0	R 2	8	0 5	2	2	2	8	8	8	4	4	4	4			
2 2	1 0	9 9 9 9	3 9	3 9	3 9	2 5	0 0	R 2	8	0 5	2	2	2	8	8	8	4	4	4	4			
2 2	1 3	9 9 9 9	3 9	3 9	3 9	2 5	0 0	R 2	8	0 5	2	2	2	8	8	8	4	4	4	4			
2 2	1 6	9 9 9 9	3 9	3 9	3 9	2 5	0 0	R 2	8	0 5	2	2	2	8	8	8	4	4	4	4			
2 2	1 9	9 9 9																					

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF OCTOBER 1949																									
DAY	HOUR	STATION LEVEL PRESSURE	WIND			DEW POINT	DIRECTION	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE				
			DRY BULB	WET BULB	SPEED							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	0 0 2 2	5 8	5 7	5 6	2 7	1 9	8 1	8	0 5	5 6	5	5	5	5	5	5	4 1	3 5	0 0 0 5	3 8 4	2 5	4 2	0 1 3	
5 1	0 4	0 0 1 9	5 6	5 5	5 3	2 5	1 5	8 1	7	1 5	5 5	5	5	5	5	5	5								
5 1	0 7	0 0 2 7	5 7	5 5	5 1	2 6	1 5	8 1	8	0 2	5 5	5	5	5	5	5	5								
5 1	1 0	0 0 1 7	4 0	3 8	3 4	2 6	1 9	8 2	8	0 2	5 5	5	5	5	5	5	5								
5 1	1 3	0 0 0 5	4 0	3 7	3 2	2 7	1 4	8 1	8	0 2	5 5	5	5	5	5	5	5								
5 1	1 6	9 9 8 9	4 0	3 7	3 3	2 7	1 7	6 4	8	1 5	5 5	5	5	5	5	5	5								
5 1	1 9	9 9 7 6	3 9	3 9	3 5	2 7	1 4	2 0	8	2 1	5 5	5	5	5	5	5	5								
5 1	2 2	N	9 9 6 9	3 9	3 9	3 5	2 7	1 5	2 4	5 1	5 5	5	5	5	5	5	5								

RESULTS OF SURFACE OBSERVATIONS AT															MACQUARIE ISLAND													
FOR THE MONTH OF NOVEMBER 1949																												
DAY	HOUR	STATION LEVEL PRESSURE		DEW POINT	WIND		VISIBILITY	TOTAL CLOUD		PRESENT WEATHER	PAST WEATHER	AMOUNT	CLOUD DIRECTION		TYPE	HEIGHT	CLOUD HEIGHT		MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE			
		LST.	Mts.		°F	°F		*x10	Kts.	VV	Oktas	W	W	Oktas	C _L	h	C _M	C _H	C _M	C _H	°F	°F	Points	Miles	*x10	Kts.	Hours	
01	01	9 9 6 3	5 9	3 8	3 5	2 7	1 8	4 0	8	5 0	5	8	7	5														
01	04	9 9 7 2	5 7	3 4	3 0	2 7	1 7	8 0	8	0 2	2	8	4	3	4	4	4	4	5	6	6	6						
01	07	9 9 7 9	3 7	3 5	5 1	2 6	1 4	8 0	8	0 5	2	8	4	4	4	4	4	4	5	6	6	6						
01	10	9 9 8 5	5 3	3 5	5 1	2 6	1 2	8 0	8	0 5	2	8	4	4	5	5	5	5	5	6	6	6						
01	13	9 9 8 1	4 0	3 7	2 7	1 9	8 1	8 0	0 5	2	2	5	5	5	5	5	5	5	5	6	6	6						
01	16	9 9 7 5	4 1	3 9	3 6	2 7	1 9	8 1	7	0 2	2	2	5	5	5	5	5	5	5	6	6	6						
01	19	9 9 6 2	4 1	4 0	2 9	1 4	1 8	8 0	8	0 5	2	2	5	5	5	5	5	5	5	6	6	6						
01	22	9 9 8 1	4 2	4 1	4 1	2 9	1 2	4 0	8	2 0	5	8	4	3	4	3	4	3	4	5	6	6	6					
02	01	9 9 7 1	4 1	4 1	4 1	2 9	1 1	2 4	8	5 0	5	8	6	6	6	6	6	6	6	7	7	7	7					
02	04	9 9 6 2	4 1	4 1	4 1	3 0	1 4	0 1	9	4 7	5	9	9	9	9	9	9	9	9	7	7	7	7					
02	07	9 9 5 6	4 1	4 1	4 1	3 1	1 5	1 6	8	5 1	4	5	5	5	5	5	5	5	5	6	6	6	6					
02	10	9 9 5 8	4 1	4 1	4 1	3 1	1 7	1 6	8	1 0	5	5	5	5	5	5	5	5	5	6	6	6	6					
02	13	9 9 5 2	4 4	4 3	4 1	3 1	1 2	8 1	8	0 5	5	5	5	5	5	5	5	5	5	6	6	6	6					
02	16	9 9 4 4	4 3	4 1	3 1	1 6	8 1	8	0 5	5	5	5	5	5	5	5	5	5	5	6	6	6	6					
02	19	9 9 3 7	4 2	4 1	3 1	1 7	8 1	8	0 5	5	5	5	5	5	5	5	5	5	5	6	6	6	6					
02	22	9 9 2 7	4 1	4 1	4 0	3 1	1 7	8 1	8	0 5	5	5	5	5	5	5	5	5	5	6	6	6	6					
03	01	9 9 1 0	4 2	4 1	4 0	3 1	1 8	8 0	8	0 5	5	5	5	5	5	5	5	5	5	6	6	6	6					
03	04	9 9 1 7	3 6	3 5	2 5	2 0	1 0	6 4	7	6 0	2	2	7	5	5	5	5	5	5	6	6	6	6					
03	07	9 9 3 2	3 8	3 4	3 5	2 2	0 5	4 8	7	0 5	2	2	7	5	5	5	5	5	5	6	6	6	6					
03	10	9 9 4 7	4 1	3 7	3 0	2 7	-0 5	8 2	1	0 1	1	1	1	1	1	1	1	1	1	2	2	2	2					
03	13	9 9 3 6	4 2	3 7	2 9	1 5	8 2	1	0 1	1	1	1	1	1	1	1	1	1	1	2	2	2	2					
03	16	9 9 2 3	4 0	3 7	3 0	3 2	1 7	8 1	8	0 3	1	1	1	1	1	1	1	1	1	2	2	2	2					
03	19	9 9 0 6	4 2	3 8	3 5	3 2	2 3	8 1	8	0 2	2	2	7	5	5	5	5	5	5	6	6	6	6					
03	22	9 8 8 7	3 8	3 8	3 5	3 1	2 6	4 0	8	5 2	5	8	8	8	8	8	8	8	8	7	7	7	7					
04	01	9 8 7 7	3 9	3 5	3 2	2 1	2 1	8 1	3	0 2	2	2	3	3	3	3	3	3	3	4	4	4	4					
04	04	9 8 7 1	3 4	3 4	2 9	2 2	4 6	8	8 5	2	2	3	3	3	3	3	3	3	3	4	4	4	4					
04	07	9 8 5 7	3 8	3 7	3 6	2 9	1 7	4 0	7	0 5	2	2	3	3	3	3	3	3	3	4	4	4	4					
04	10	9 8 4 0	3 9	3 8	3 7	3 1	2 2	4 0	8	1 6	2	2	3	3	3	3	3	3	3	4	4	4	4					
04	13	9 8 0 3	4 0	4 0	4 0	3 9	2 9	4 0	8	6 1	6	6	6	6	6	6	6	6	6	7	7	7	7					
04	16	9 8 0 3	3 9	3 8	3 7	2 3	4 0	7	8 1	6	6	6	6	6	6	6	6	6	6	7	7	7	7					
04	19	9 8 1 0	3 8	3 8	3 6	2 6	2 2	8 1	7	2 6	8	8	8	8	8	8	8	8	8	9	9	9	9					
05	01	9 7 9 4	3 9	3 8	3 6	2 8	1 9	8 0	7	2 5	8	8	8	8	8	8	8	8	8	9	9	9	9					
05	04	9 7 3 9	4 1	4 1	3 1	2 6	2 6	4 0	8	6 1	8	8	8	8	8	8	8	8	8	9	9	9	9					
05	07	9 7 3 7	4 1	3 9	3 7	2 9	2 9	4 0	8	6 1	6	6	6	6	6	6	6	6	6	7	7	7	7					
05	10	9 7 7 6	3 9	3 8	3 6	3 2	2 6	4 0	8	7 2	8	8	8	8	8	8	8	8	8	9	9	9	9					
05	13	9 8 1 5	3 9	3 8	3 7	3 2	2 6	4 0	8	8 5	7	7	7	7	7	7	7	7	7	8	8	8	8					
05	16	9 8 4 4	3 9	3 8	3 6	3 2	2 7	4 1	8 1	5 2	6	7	7	7	7	7	7	7	7	8	8	8	8					
05	19	9 8 8 4	3 6	3 6	3 5	3 5	2 7	4 0	8 0	7 2	6	7	7	7	7	7	7	7	7	8	8	8	8					
05	22	9 9 1 8	3 7	3 5	3 5	3 1	2 7	2 1	8 1	5 0	2	2	3	3	3	3	3	3	3	4	4	4	4					
06	01	9 9 4 4	3 7	3 5	3 5	3 5	2 7	2 0	8 0	6 3	8	8	8	8	8	8	8	8	8	9	9	9	9					
06	04	9 9 6 9	3 7	3 5	3 5	3 1	2 7	2 4	8 0	6 3	8	8	8	8	8	8	8	8	8	9	9	9	9					
06	07	9 9 7 9	3 8	3 6	3 2	2 8	2 8	4 0	8 0	6 3	8	8	8	8	8	8	8	8	8	9	9	9	9					
06	10	9 9 2 2	3 9	3 5	3 0	2 8	2 7	4 0	8 1	8 1	8	8	8	8	8	8	8	8	8	9	9	9	9					
07	13	9 9 4 8	3 8	3 6	3 5	2 6	2 3	4 1	8 1	8 1	8 5	7	7	7	7	7	7	7	7	8	8	8	8					
07	16	9 9 8 9	3 3	3 2	3 2	2 4	2 4	4 0	8 1	8 1	8 5	7	7	7	7	7	7	7	7	8	8	8	8					
07	19	0 0 1 9	3 7	3 4	2 4	2 4	2 6	1 0	8 3	4 0	1	7	4	4	4	4	4	4	4	5	5	5	5					
07	22	0 0 0 5 7	3 5	3 5	3 0	2 6	2 5	1 9	8 1	8 2	0 2	2	2	3	3	3	3	3	3	4	4	4	4					
08	01	0 0 5 5 6	3 5	3 2	2 4	2 7	1 5	3 2	8 8	5 1	2	2	3	3	3	3	3	3	3	4	4	4	4					
08	04	0 0 1 0 5	4 0	4 0	4 0	4 0	2 7	1 5	3 2	8 8	1 0	5	5	5	5	5	5	5	5	6	6	6	6					
08	07	0 0 1 0 5	4 1	4 1	4 0	4 0	2 8	1 6	2 4	8 8	1 0	5	5	5	5	5	5	5	5	6	6	6	6					
09	10	0 0 1 1 2	4 2	4 1	4 1	2 9	1 7	2 4	8 8	1 0</																		

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF NOVEMBER 1949																							
DAY	HOUR	STATION LEVEL PRESSURE	WIND			DEW POINT	VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	LAST WEATHER	CLOUD DIRECTION			MAXIMUM TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST	SUNSHINE				
			DRY BULB	WET BULB	SPEED						DIRECTION	LOW CLOUD	MIDDLE CLOUD	HIGH CLOUD	LOW	MIDDLE	HIGH	DIRECTION	SPEED				
LST.	Mbs.	"F	"F	"F	"x10	Kts.	VV	Oktas	vv	w	W	Oktas	C _L	C _M	C _H	"F	"F	Points	Miles	"x10 Kts.	Hours		
11	0 1	0 0 1 2	4 0	4 0	4 0	2 6	0 4	0 0	9	4 5	4	9	0	0	0	4 2	3 9	0 0 1 0	3 1 4	3 4	1 4	0 3 0	
11	0 4	0 0 2 2	4 0	3 9	3 9	0 0	0 0	3 2	8	1 0	4	8	7	2	4	4	4						
11	0 7	0 0 5 0	3 9	3 9	3 9	1 6	1 0	8 1	8	0 2	2	8	5	3	4	4	4						
11	1 0	0 0 7 2	4 0	3 9	3 8	1 5	0 4	8 1	8	0 2	2	7	4	4	4	4	4						
11	1 3	0 0 8 8	4 0	3 9	3 7	1 3	0 2	8 1	7	0 2	2	7	4	4	4	4	4						
11	1 6	0 1 0 1	4 2	4 1	3 9	1 4	0 2	8 2	7	0 2	2	7	4	4	4	4	4						
11	1 9	0 1 0 8	3 9	3 8	3 7	3 4	0 2	8 2	8	0 2	2	7	4	4	4	4	4						
11	2 2	0 1 1 2	4 0	3 9	3 9	3 4	0 7	8 0	8	0 2	2	7	4	4	4	4	4						
12	0 1	0 0 8 8	4 0	4 0	4 0	3 5	0 5	1 6	8	0 2	2	7	4	4	4	4	4						
12	0 4	0 0 6 7	4 1	4 1	4 1	3 5	0 8	9	4 7	4	9	0	0	1	4	4	4						
12	0 7	0 0 4 9	4 2	4 2	4 2	3 5	0 7	0 0	9	4 5	4	9	0	0	0	4	4						
12	1 0	0 0 2 7	4 2	4 2	4 2	3 4	0 5	0 0	9	4 5	4	9	0	0	0	4	4						
12	1 3	9 9 8 6 3	4 3	4 3	4 3	1 1	0 2	0 8	8	6 1	6	8	6	1	1	4	4						
12	1 6	9 9 4 4 7	4 3	4 3	4 3	3 3	0 9	0 0	9	6 1	6	8	6	1	1	4	4						
12	1 9	9 9 2 9	4 3	4 3	4 3	3 3	1 4	0 0	9	5 1	5	9	0	0	0	4	4						
12	2 2	9 9 1 0	4 3	4 3	4 3	3 3	1 7	0 8	9	5 3	4	8	7	2	2	4	4						
13	0 1	9 8 7 3	4 3	4 3	4 3	3 3	2 3	0 4	9	5 1	5	9	0	0	0	4	4						
13	0 4	9 8 6 5	4 3	4 3	4 3	3 3	1 5	0 0	9	5 1	5	9	0	0	0	4	4						
13	0 7	9 8 4 9	4 3	4 3	4 3	5 5	1 1	0 8	9	5 1	5	9	0	0	0	4	4						
13	1 0	9 8 2 9	4 3	4 3	4 3	5 5	1 5	0 8	9	5 1	5	9	0	0	0	4	4						
13	1 3	9 8 1 0	4 3	4 3	4 3	5 3	1 8	0 8	9	5 1	5	9	0	0	0	4	4						
13	1 6	9 7 8 3	4 3	4 2	4 2	5 3	2 0	0 0	9	5 1	5	9	0	0	0	4	4						
13	1 9	9 7 6 0	4 2	4 2	4 2	5 3	2 3	0 8	9	5 1	5	9	0	0	0	4	4						
13	2 2	9 7 7 3	4 1	4 1	4 0	5 3	1 7	0 8	9	5 1	5	9	0	0	0	4	4						
14	0 1	9 7 5 2	4 1	4 1	4 1	5 5	1 1	4 8	9	5 1	5	9	0	0	0	4	4						
14	0 4	9 7 2 9	4 0	4 0	4 0	5 5	1 2	8 1	9	5 1	5	9	0	0	0	4	4						
14	0 7	9 7 3 7	4 0	4 0	3 9	5 1	2 3	8 0	9	5 1	5	9	0	0	0	4	4						
14	1 0	9 7 4 5	4 3	4 2	4 0	5 1	2 3	8 0	9	5 1	5	9	0	0	0	4	4						
14	1 3	9 7 3 8	4 5	4 2	4 1	5 3	1 9	8 2	9	5 1	5	9	0	0	0	4	4						
14	1 6	9 7 2 6	4 0	4 0	4 0	5 3	1 9	8 0	9	5 1	5	9	0	0	0	4	4						
14	1 9	9 7 3 0	4 0	4 0	3 9	5 1	2 1	8 0	8	8 5	8	7	5	5	5	4	4	0 0 1 5	4 7 1	3 3	3 9	0 5 5	
14	2 2	9 7 3 3	4 0	3 9	5 8	2 0	8 0	8	8 5	8	7	5	5	5	5	4	4	3 8	0 0 1 5	4 7 1	3 3	3 9	0 5 5
15	0 1	9 7 6 9	3 7	3 5	5 3	2 3	2 4	8 0	8	2 5	8	8	8	8	8	6	6						
15	0 4	9 8 0 0	3 8	3 5	5 1	2 5	1 9	8 0	7	1 6	2	7	2	4	4	6	6						
15	0 7	9 8 2 4	3 9	3 8	5 6	2 7	1 7	8 0	7	1 6	2	7	2	4	4	6	6						
15	1 0	9 8 4 0	3 8	3 7	5 5	2 7	2 1	8 1	8	0 2	2	7	8	5	5	7	6						
15	1 3	9 8 5 1	3 8	3 6	5 3	2 7	2 0	8 1	8	2 5	8	8	8	8	8	6	6						
15	1 6	9 8 6 0	3 8	3 5	5 2	2 7	2 6	8 1	8	2 7	8	8	8	8	8	6	6						
15	1 9	9 8 7 4	3 7	3 6	5 5	2 7	2 0	8 1	8	2 6	8	8	8	8	8	6	6						
15	2 2	9 8 9 2	3 8	3 5	5 0	2 7	3 0	8 1	8	2 6	8	8	8	8	8	6	6						
16	0 1	9 9 0 4	3 7	3 5	5 1	2 7	2 9	8 1	8	0 2	2	8	8	8	8	6	6						
16	0 4	9 9 1 5	3 8	3 5	5 2	2 6	2 4	8 1	8	0 2	2	8	8	8	8	6	6						
16	0 7	9 9 3 7	3 9	3 7	5 4	2 6	2 5	8 1	8	0 2	2	8	8	8	8	6	6						
16	1 0	9 9 5 1	3 9	3 8	5 7	2 6	1 6	8 0	8	0 2	2	8	8	8	8	6	6						
16	1 3	9 9 5 2	4 0	4 0	5 9	2 7	1 4	6 4	8	0 2	2	8	8	8	8	6	6						
16	1 6	9 9 4 8	4 1	4 1	4 1	3 0	0 7	6 4	8	0 2	2	8	8	8	8	6	6						
16	1 9	9 9 4 8	4 1	4 1	4 1	2 9	1 5	0 4	8	0 2	2	8	8	8	8	6	6						
16	2 2	9 9 5 5	4 1	4 1	4 1	2 9	1 6	0 8	8	0 2	2	8	8	8	8	6	6						
17	0 1	9 9 4 8	4 1	4 1	4 1	2 6	1 4	4 0	8	0 2	2	8	8	8	8	6	6						
17	0 4	9 9 4 8	4 1	4 1	4 1	2 7	1 9	4 0	8	0 2	2	8	8	8	8	6	6						
17	0 7	9 9 5 2	3 9	3 9	5 9	2 7	1 0	7 2	8	0 2	2	8	8	8	8	6	6						
17	1 0	9 9 5 8	4 0	4 0	4 0	2 7	1 0	7 2	8	0 2	2	8	8	8	8	6	6						
17	1 3	9 9 7 2	4 1	4 0	3 9	2 7	0 9	8 1	8	0 2	2	8	8	8	8	6	6						
17	1 6	9 9 8 1	3 9	3 5	5 1	2 2	0 4	8 2	8	0 2	2	8	8	8	8	6	6						
17	1 9	9 9 9 7	3 7	3 5	5 1	2 5	0 4	8 2	8	0 2	2	8	8	8	8	6	6						
17	2 2	0 0 1 0	3 6	3 4	5 0	0 0	0 0	8 2	8	0 2	2	8	8	8	8	6	6						
18	0 1	0 0 3 4	3 6	3 5	3 3	1 8	0 3	8 1	8	0 2	2	8	8	8	8	6	6						
18	0 4	0 0 4 6	3 6	3 5	3 1	1 3	0 6	8 1	8	0 2	2	8	8	8	8	6	6						
18	0 7	0 0 5 0	3 8	3 6	3 1	1 2	0 7	8 3	8	0 1	2	8	8	8	8	6	6						
18	1 0	0 0 3 9	3 8	3 5	3 1	1 0	1 2	8 2	8	0 3	2	8	8	8	8	6	6						
18	1 3	0 0 1 4	3 8	3 7	3 5	1 0	1 6	8 2	8	0 2	2	8	8	8	8	6	6						
18	1 6	9 9 9 2	3 7	3 4	3 4	1 1	2 0	8 1	8	0 5	2	8	8	8	8	6	6						
18	2 2	9 9 9 1	3 5	3 5	3 5	1 3	2 4	1 6	8	7 1	7												

**RESULTS OF SURFACE OBSERVATIONS AT
MACQUARIE ISLAND
FOR THE MONTH OF NOVEMBER 1949**

RESULTS OF SURFACE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF DECEMBER 1949																										
DAY	HOUR	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	MAXIMUM GUST	SUNSHINE							
						DIRECTION	SPEED					*x10	Kts.	VV	Oktas	C _L	h	C _M	C _H	*F	*F	Points	Miles	*x10	Kts.	Hours
01	0 1	9 9 5 6	4 0	3 9	3 8	2 9	1 5	R 1	7	0 3	I	5	2	5	0 2	2	4	4	5	6	6	6	6	6	6	
01	0 4	9 9 6 7	4 0	3 8	3 5	2 8	1 5	R 2	5	0 2	2	5	0 2	2	5	0 2	2	4	4	5	6	6	6	6	6	
01	0 7	9 9 8 8	4 2	4 0	3 7	2 8	1 5	R 2	5	0 2	2	5	0 2	2	5	0 2	2	4	4	5	6	6	6	6	6	
01	1 0	9 9 9 5	4 4	4 2	3 6	2 9	1 5	R 2	4	0 2	I	4	0 2	1	4	0 2	1	4	4	5	6	6	6	6	6	
01	1 3	9 9 9 4	4 4	4 2	3 9	2 9	1 5	R 2	2	0 1	I	2	0 1	1	2	0 1	1	4	4	5	6	6	6	6	6	
01	1 6	9 9 9 0	4 1	4 1	3 8	3 0	1 6	R 2	7	0 3	I	5	0 3	2	5	0 3	2	4	4	5	6	6	6	6	6	
01	1 9	9 9 9 1	4 0	4 0	4 0	3 0	1 3	R 0	8	8 0	I	5	7	7	5	7	7	4	4	5	6	6	6	6	6	
01	2 2	9 9 8 8	3 9	3 7	2 9	1 5	R 1	7	0 2	2	2	2	0 2	2	2	0 2	2	4	4	5	6	6	6	6	6	
02	0 1	9 9 7 9	4 0	3 9	3 6	2 9	1 5	R 1	6	0 2	2	2	0 2	2	2	0 2	2	4	4	5	6	6	6	6	6	
02	0 4	9 9 7 2	4 0	4 0	3 8	3 0	1 0	R 1	7	0 2	2	2	0 2	2	2	0 2	2	4	4	5	6	6	6	6	6	
02	0 7	9 9 6 2	4 1	4 0	4 0	3 1	1 1	R 1	7	2 5	2	2	2	2	2	2	2	7	7	7	7	7	7	7	7	
02	1 0	9 9 5 0	4 4	4 3	4 3	3 5	0 7	R 1	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6	6	
02	1 3	9 9 4 1	4 4	4 4	4 3	4 0	1 0	R 0	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6	6	
02	1 6	9 9 3 0	4 4	4 5	4 3	3 4	3 4	R 0	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6	6	
02	1 9	9 9 2 7	4 5	4 3	4 2	0 0	0 0	R 0	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6	6	
02	2 2	9 9 2 9	4 5	4 3	4 2	0 0	0 0	R 0	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6	6	
03	0 1	9 9 3 2	4 5	4 2	4 1	0 0	0 0	R 0	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6	6	
03	0 4	9 9 4 2	4 4	4 3	4 1	0 0	0 0	R 0	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6	6	
03	0 7	9 9 6 5	4 1	4 0	3 7	2 3	0 2	R 1	8	0 2	2	2	7	0 2	2	2	7	7	7	7	7	7	7	7		
03	1 0	9 9 8 1	4 2	4 1	4 0	2 3	0 2	R 1	8	5 0	5	5	5	5	5	5	5	4	4	5	6	6	6	6		
03	1 3	9 9 8 8	4 4	4 2	4 0	2 5	0 9	R 1	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6		
03	1 6	9 9 8 5	4 1	4 0	3 7	2 7	0 5	R 1	8	0 2	2	2	7	0 2	2	2	7	7	7	7	7	7	7	7		
03	1 9	9 9 8 7	4 0	3 9	3 4	3 0	0 0	R 2	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6		
03	2 2	9 9 6 6	3 9	3 7	3 4	3 3	0 0	R 2	8	1 6	2	2	7	0 2	2	2	7	9	9	9	9	9	9	9		
04	0 1	9 9 5 1	4 0	3 8	3 0	3 5	0 9	R 1	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6		
04	0 4	9 9 7 6	4 1	3 9	3 9	3 0	0 0	R 1	8	0 2	2	2	7	0 2	2	2	7	7	7	7	7	7	7	7		
04	0 7	9 9 8 0	4 2	4 2	4 2	3 5	0 0	R 0	8	5 0	5	5	5	5	5	5	5	4	4	5	6	6	6	6		
04	1 0	9 9 7 9	4 4	4 2	4 2	3 4	0 0	R 0	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6		
04	1 3	9 9 7 9	4 4	4 2	4 2	3 4	0 0	R 0	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6		
04	1 6	9 9 7 8	4 5	4 3	4 2	3 4	0 0	R 0	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6		
04	1 9	9 9 7 6	4 1	4 1	4 0	3 4	0 0	R 0	8	0 2	2	2	7	0 2	2	2	7	7	7	7	7	7	7	7		
04	2 2	9 9 7 4	4 5	4 3	4 2	3 4	0 0	R 0	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6		
05	0 1	9 9 7 3	4 0	3 9	3 8	3 5	0 9	R 1	8	0 2	2	2	7	0 2	2	2	7	7	7	7	7	7	7	7		
05	0 4	9 9 7 2	4 0	3 9	3 8	3 5	0 0	R 0	8	5 0	5	5	5	5	5	5	5	4	4	5	6	6	6	6		
05	0 7	9 9 7 4	4 2	4 0	3 9	3 5	0 0	R 0	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6		
05	1 0	9 9 7 4	4 1	4 2	4 1	3 1	0 0	R 0	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6		
05	1 3	9 9 7 5	4 4	4 3	4 1	3 0	0 0	R 0	8	0 2	2	2	7	0 2	2	2	7	7	7	7	7	7	7	7		
05	1 6	9 9 7 5	4 4	4 3	4 1	3 0	0 0	R 0	8	0 2	2	2	7	0 2	2	2	7	7	7	7	7	7	7	7		
05	1 9	9 9 7 6	4 1	4 1	4 0	3 1	0 0	R 0	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6		
05	2 2	9 9 7 8	4 0	3 9	3 8	3 2	0 0	R 0	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6		
06	0 1	9 9 8 0	4 2	4 2	4 2	3 5	0 0	R 0	8	0 2	2	2	7	0 2	2	2	7	7	7	7	7	7	7	7		
06	0 4	9 9 8 4	3 9	3 8	3 5	0 7	0 0	R 0	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6		
06	0 7	9 9 6 3	4 2	4 2	4 2	3 4	0 0	R 0	8	0 5	5	0 5	5	0 5	5	0 5	5	4	4	5	6	6	6	6		
06	1 0	9 9 9 6	4 1	4 0	3 9	2 7	0 0	R 0	8	0 2	2	2	7	0 2	2	2	7	7	7	7	7	7	7	7		
06	1 3	9 9 9 1	4 0	3 9	3 7	3 2	0 0	R 0	8	0 2	2	2	7	0 2	2	2	7	7	7	7	7	7	7	7		
06	1 6	9 9 9 3	4 0	3 9	3 7	3 2	0 0	R 0	8	0 2	2	2	7	0 2	2	2	7	7	7	7	7	7	7	7		
06	1 9	9 9 9 3	3 9	3 7	3 3	2 7	0 0	R 0	8	0 2	2	2	7	0 2	2	2	7	7	7	7	7	7	7	7		
06	2 2	9 9 9 6	3 7	3 6	3 2	0 0	0 0	R 0	8	0 2	2	2	7	0 2	2	2	7	7	7	7	7	7	7	7		
07	0 1	9 9 9 2	3 6	3 1	0 0	0 0	R 3	8	0 2	2	2	7	0 2	2	2	7	7	7	7	7	7	7	7	7		
07	0 4	9 9 9 1	3 6	3 2	2 5	1 1	R 3	8	0 2	2	2	7	0 2	2	2	7	7	7	7	7	7	7	7	7		
07	0 7	9 9 9 1	3 7	3 2	2 6	0 2	R 2	8	0 2	2	2	7	0 2	2	2	7	7	7	7	7	7	7	7	7		
07	1 0	9 9 9 1	4 0	3 6	3 5	1 3	0 5	R 2	8	0 2	2	2	7	0 2	2	2	7	7	7	7	7	7	7	7		
07	1 3	9 9 9 0	4 2	4 0	3 5	2 7	0 4	R 2	8	0 2	2	2	7	0 2	2	2	7	7	7							

**RESULTS OF SURFACE OBSERVATIONS AT
MACQUARIE ISLAND
FOR THE MONTH OF DECEMBER 1949**

RESULTS OF SURFACE OBSERVATIONS AT FOR THE MONTH OF												MACQUARIE ISLAND DECEMBER 1949																	
DAY	HOUR	STATION LEVEL PRESSURE	DRY BULB		WET BULB		DEW POINT	WIND		VISIBILITY	TOTAL CLOUD	PRESENT WEATHER	PAST WEATHER	AMOUNT	LOW CLOUD		CLOUD DIRECTION		HIGH TEMPERATURE	MINIMUM TEMPERATURE	PRECIPITATION	ANEMOMETER	MAXIMUM GUST		SUNSHINE				
			DIRECTION	SPEED	DIRECTION	SPEED		DIRECTION	SPEED		Oktas	WW	W	Oktas	CL	Type	Height	Middle Cloud	Low	Middle	High	"F	"F	Points	Miles	"x10	Kts.	Hours	
11	0 1	9 8 0 2	4 4	4 4	4 4	4 4	0 1	1 8	8 0	8	6 1	6	5	7	5	2	8	6	7	7	7	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
11	0 4	9 7 8 5	4 5	4 3	4 3	4 3	1 2	6 4	8	2 1	6	8	7	2	2	7	7	7	7	7	7	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
11	0 7	9 7 8 4	4 4	4 4	4 4	4 4	3 1	0 9	4 0	8	6 0	6	8	7	2	2	7	7	7	7	7	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
11	1 0	9 7 7 7 6	4 5	4 5	4 5	4 5	3 2	0 7	1 6	8	1 0	6	6	8	7	2	7	7	7	7	7	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
11	1 3	9 7 6 9 2	4 5	4 5	4 5	4 5	3 5	0 7	0 4	9	4 5	4	9	9	4	4	9	9	9	9	9	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
11	1 6	9 7 5 5 2	4 5	4 5	4 5	4 5	3 5	0 7	0 4	9	4 5	4	9	9	4	4	9	9	9	9	9	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
11	1 9	9 7 4 6 6	4 5	4 5	4 5	4 5	3 5	1 1	0 4	9	4 5	4	9	9	4	4	9	9	9	9	9	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
11	2 2	9 7 5 8 0	4 1	4 0	4 0	4 0	2 9	2 4	5 4	8	6 0	6	8	8	4	4	6	6	6	6	6	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
12	0 1	9 7 7 7 7	4 2	4 1	4 1	4 1	3 1	2 0	8 0	6	0 5	6	6	7	4	4	7	7	7	7	7	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
12	0 4	9 7 8 0 0	4 1	4 0	4 0	4 0	2 4	2 4	8 0	7	6 0	6	8	7	4	4	7	7	7	7	7	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
12	0 7	9 7 9 0 0	4 2	4 1	4 1	4 1	1 8	8 0	8	4	2 5	4	9	9	3	2	5	0	1	7	7	0	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6
12	1 0	9 8 1 2 0	4 1	4 0	3 9	3 9	2 9	2 4	8 0	8	8 0	8	8	7	5	5	5	5	5	5	5	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
12	1 3	9 8 2 8 0	4 0	3 9	3 9	3 9	2 9	2 3	4 8	8	8 0	8	8	7	2	2	5	5	5	5	5	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
12	1 6	9 8 4 0 0	4 2	4 1	4 0	4 0	3 0	2 0	8 1	8	2 5	8	5	7	5	5	5	5	5	5	5	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
12	1 9	9 8 6 1 0	4 0	3 8	3 4	3 0	1 8	8 1	8	1 4	2	4	4	4	4	4	7	6	6	6	6	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
12	2 2	9 8 7 8 0	4 0	3 9	5 4	3 0	1 0	4 0	8 0	8	8 1	8	8	8	8	8	8	8	8	8	8	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
13	0 1	9 8 8 7 0	4 1	3 9	3 6	3 1	1 5	8 1	8	8 5	8	8	8	8	8	8	8	8	8	8	8	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
13	0 4	9 8 9 6 5	4 0	3 8	3 6	3 1	1 7	6 4	8	8 0	8 0	8 0	8	8	8	8	8	8	8	8	8	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
13	0 7	9 9 0 9 9	4 5	4 1	3 7	3 2	1 7	8 1	8	0 5	8	8	8	8	8	8	8	8	8	8	8	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
13	1 0	9 9 1 2 0	4 4	4 2	3 8	3 2	1 7	8 1	8	7	1 5	2	6	6	6	6	6	6	6	6	6	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
13	1 3	9 9 2 0 2	4 2	4 1	4 0	3 5	5 5	1 2	8 0	8	2 5	8	6	6	6	6	6	6	6	6	6	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
13	1 6	9 8 7 8 0	4 3	4 3	4 3	4 3	1 6	4 0	8	6 3	6	7	7	3	2	8	8	8	8	8	8	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
13	1 9	9 8 5 5 6	4 2	4 2	4 2	4 2	3 2	2 2	8 0	8	5 0	6	7	7	3	2	8	8	8	8	8	4 6	4 0	0 0 1 1	3 3 4	2 9	3 5	0 3 6	
13	2 2	9 8 6 6 6	4 1	3 9	3 4	3 0	2 2	8 1	8	5 0 1	6	3	4	4	0	0	7	7	0	0	0	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
14	0 1	9 8 7 2 0	4 0	3 9	3 7	3 3	2 1	4 0	8 0	8	6 0	6	8	8	4	4	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
14	0 4	9 8 7 0 0	4 2	4 1	4 0	3 8	3 3	2 0	8 0	7	2 1	6	5	8	8	8	8	8	8	8	8	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
14	0 7	9 8 7 5 3	4 1	4 0	3 9	3 4	3 1	1 9	8 0	8	6 0	6	8	8	4	4	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
14	1 0	9 8 8 0 0	4 2	4 1	4 0	3 8	3 1	1 5	8 1	8	2 1	6	5	8	8	8	8	8	8	8	8	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
14	1 3	9 8 8 9 0	4 5	4 0	3 5	3 1	1 4	8 2	8	6 0 1	6	6	6	6	6	6	6	6	6	6	6	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
14	1 6	9 8 8 6 3	4 2	4 0	3 7	3 0	2 0	8 0	8	6 1 6	6	8	8	4	4	7	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
14	1 9	9 8 9 3 5	4 1	4 0	3 7	3 2	1 7	1 9	8 0	8	6 0 5	6	5	5	5	5	5	5	5	5	5	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
14	2 2	9 9 6 1 0	4 0	3 9	3 6	2 8	1 9	8 0	8	8 0	8	8	8	4	4	7	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
15	0 1	9 9 7 3 0	3 9	3 8	3 5	3 2	2 7	1 6	8 1	7	0 2 2	2	7	7	4	4	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
15	0 4	9 9 8 7 0	3 9	3 7	3 4	2 7	1 1	1 1	8 1	8	6 0 8	8	8	8	4	4	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
15	0 7	0 0 0 4 4	4 1	3 8	3 5	2 5	0 4	8 1	8	7 0 1	2	7	7	4	4	7	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
15	1 0	0 0 1 2 0	4 3	3 9	3 4	2 7	0 4	8 1	8	6 0 2	2	8	8	4	4	7	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
15	1 3	0 0 1 6 0	4 2	3 9	3 5	2 4	0 4	8 1	8	6 0 2	2	8	8	4	4	7	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
15	1 6	0 0 2 5 0	4 3	4 0	3 5	2 5	0 4	8 1	8	6 0 2	2	8	8	4	4	7	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
15	1 9	0 0 2 7 0	4 1	3 7	3 0	2 2	0 4	8 1	8	6 0 2	2	8	8	4	4	7	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
15	2 2	0 0 3 3 5	3 7	3 5	3 1	2 2	0 4	8 1	8	6 0 2	2	8	8	4	4	7	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
16	0 1	0 0 3 9 4	3 7	3 5	3 1	1 8	1 0	8 1	8	6 0 3	2	8	8	4	4	7	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
16	0 4	0 0 4 1 4	3 8	3 5	3 1	1 8	0 1	0 8	8 1	8	6 0 2	2	8	8	4	4	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
16	0 7	0 0 4 6 4	3 8	3 5	3 1	1 8	0 1	0 8	8 1	8	6 0 2	2	8	8	4	4	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
16	1 0	0 0 5 1 4	3 8	3 5	3 1	1 8	0 1	0 8	8 1	8	6 0 2	2	8	8	4	4	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
16	1 3	0 0 5 6 4	3 8	3 5	3 1	1 8	0 1	0 8	8 1	8	6 0 2	2	8	8	4	4	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
16	1 6	0 0 6 0 4	3 8	3 5	3 1	1 8	0 1	0 8	8 1	8	6 0 2	2	8	8	4	4	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
16	1 9	0 0 6 4 4	3 8	3 5	3 1	1 8	0 1	0 8	8 1	8	6 0 2	2	8	8	4	4	7	7	7	7	7	4 6	4 0	0 0 0 5	4 3 2	3 1	3 2	0 0 0	
16	2 2	0 0 6 7 4	3 8	3 5	3 1	1 8	0 1	0 8	8 1	8	6 0 2	2	8	8	4	4	7	7	7	7	7								

**RESULTS OF SURFACE OBSERVATIONS AT
MACQUARIE ISLAND
FOR THE MONTH OF DECEMBER 1949**

DAY	HOUR	STATION	STATION 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					Oldas	WW	W	Oldas	C _L	h	C _M	C _H	C _L	C _M	C _H	Points	Miles	*x10	Kts.	Hours
LST.	Mbs.	"F	"F	"F	"F	"x10	Kts.																					
21	01	0 1 4 7	4 4	4 4	4 3	1 1	0 9	B 1	7	8	0 5	2	2	2	2	2	6	6	6	6	6	6	6	2	1	1	1	1
21	04	0 1 4 2	4 4	4 4	4 3	1 1	1 2	B 1	8	0 2	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
21	07	0 1 4 3	4 4	4 2	4 3	1 1	1 3	B 1	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
21	10	0 1 4 3	4 5	4 4	4 3	1 1	1 3	B 1	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
21	13	0 1 2 4	4 5	4 4	4 3	1 1	1 3	B 0	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
21	16	0 1 0 7	4 4	4 4	4 4	1 1	1 5	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
21	19	0 0 9 9	4 4	4 4	4 4	1 1	0 8	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
22	02	0 0 8 4	4 5	4 5	4 5	1 1	0 9	B 1 6	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
22	01	0 0 5 8	4 5	4 5	4 5	1 1	1 5	B 1 6	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
22	04	0 0 4 1	4 5	4 5	4 5	1 0	1 5	B 1 6	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
22	07	0 0 2 9	4 6	4 5	4 5	1 1	1 7	B 1 6	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
22	10	0 0 1 1	4 6	4 5	4 5	1 1	1 6	B 1 6	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
22	13	9 9 8 9	4 5	4 5	4 5	1 1	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
22	16	9 9 7 2	4 5	4 5	4 5	1 2	1 2	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
22	19	9 9 6 5	4 5	4 5	4 5	1 1	1 0	B 1 6	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
23	01	9 9 4 5	4 5	4 5	4 5	1 1	1 0	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
23	04	9 9 1 5	4 5	4 5	4 5	1 1	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
23	07	9 9 0 5	4 5	4 5	4 5	1 0	1 5	B 1 6	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
23	10	9 9 8 6	4 5	4 5	4 5	1 1	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
23	13	9 9 7 1	4 5	4 5	4 5	1 1	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
23	16	9 9 4 8	4 5	4 5	4 5	1 0	1 5	B 1 6	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
23	19	9 9 1 5	4 5	4 5	4 5	1 1	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
24	01	9 9 0 4	4 5	4 5	4 5	1 0	1 5	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
24	04	9 9 7 4	4 5	4 5	4 5	1 1	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
24	07	9 9 5 8	4 5	4 5	4 5	1 1	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
24	10	9 9 7 1	4 5	4 5	4 5	1 1	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
24	13	9 9 6 5	4 5	4 5	4 5	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
24	16	9 9 4 5	4 5	4 5	4 5	1 1	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
24	19	9 9 2 0	4 5	4 5	4 5	1 1	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
25	01	9 9 1 5	4 5	4 5	4 5	1 1	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
25	04	9 9 7 4	4 5	4 5	4 5	1 1	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
25	07	9 9 5 8	4 5	4 5	4 5	1 1	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
25	10	9 9 4 1	4 5	4 5	4 5	1 1	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
25	13	9 9 2 2	4 5	4 5	4 5	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
25	16	9 9 0 8	4 5	4 5	4 5	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
25	19	9 9 8 5	4 5	4 5	4 5	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
26	01	9 9 6 8	4 4	4 4	4 4	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
26	04	9 9 4 1	4 4	4 4	4 4	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
26	07	9 9 2 1	4 4	4 4	4 4	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
26	10	9 9 0 8	4 4	4 4	4 4	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
26	13	9 9 8 5	4 4	4 4	4 4	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
26	16	9 9 6 5	4 4	4 4	4 4	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
26	19	9 9 4 1	4 4	4 4	4 4	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
27	01	9 9 2 4	4 4	4 4	4 4	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
27	04	9 9 0 1	4 4	4 4	4 4	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
27	07	9 9 2 2	4 4	4 4	4 4	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
27	10	9 9 2 6	4 4	4 4	4 4	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
27	13	9 9 3 4	4 4	4 4	4 4	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
27	16	9 9 3 8	4 4	4 4	4 4	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
27	19	9 9 4 6	4 4	4 4	4 4	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
28	02	9 9 5 2	4 4	4 4	4 4	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
28	05	9 9 4 7	4 4	4 4	4 4	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
28	08	9 9 0 4	4 4	4 4	4 4	1 2	1 6	B 0 8	8	0 0	0 2	2	2	2	2	2	6	6	6	6	6	6	6	7	1	1	1	1
28	11	9 9 4 0	4 4	4 4	4 4	1 2	1 6																					

RESULTS OF SURFACE OBSERVATIONS AT
FOR THE MONTH OF

MACQUARIE ISLAND
DECEMBER 1949

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	Oktas		ww	W	Oktas	C _L	h	C _M	C _H	C _L	C _M	C _H	"F	"F	Points	Miles	"x10	Kts.		
51	01	9915	47	47	47	35	22	24	8	62	6	8	7	3	8	8	7	8	8	7	49	44	0034	551	35	53	068	
51	04	9905	46	45	46	34	24	24	8	62	6	8	7	3	8	8	7	8	8	7	49	44	0034	551	35	53	068	
51	07	9911	46	45	44	33	15	40	4	05	6	4	5	3	6	7	2	8	8	7	49	44	0034	551	35	53	068	
51	10	9903	47	47	45	34	16	56	3	05	1	3	6	2	2	7	7	8	8	7	49	44	0034	551	35	53	068	
51	13	9906	48	45	44	33	21	48	5	10	1	6	6	5	5	7	7	8	8	7	49	44	0034	551	35	53	068	
51	16	9907	46	45	44	33	26	40	8	05	8	10	1	6	6	5	5	7	7	7	7	7	7	0034	551	35	53	068
51	19	9926	45	45	44	33	19	40	3	05	8	8	6	6	3	7	7	8	8	7	49	44	0034	551	35	53	068	
51	22	9937	45	44	43	33	22	80	5	05	2	2	2	2	4	7	7	8	8	7	49	44	0034	551	35	53	068	

**RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF JANUARY 1949**

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

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	
02	5 3 1	2 2 8	0 9	6 9 0	3 7 7	0 3	8 8 4	4 4 4	1 5 8	4 2 2	3 4 9	4 8 0	6 1 8	4 4 7								
03	5 2 1	2 7 7	0 9	6 7 7	3 9 7	0 3	8 7 1	4 2 2	1 4 7	4 2 6	3 4 3	4 4 1										
04	5 2 7	2 5 7	0 7	6 8 5	3 6 1	0 2	8 7 9	5 0 3	1 4 8	4 2 6	3 4 3	4 4 1										
05	5 1 8	2 7 8	0 8	6 7 4	3 9 7	0 3	8 8 8	4 2 8			1 5 7	4 7 5	1 3 8	4 2 8	3 3 2	4 1 3						
06	5 2 1	3 0 0		6 7 5	4 2 6		8 6 7	4 7 5		1 3 8	4 2 8	3 3 2	4 1 3									
07	5 2 7	2 5 1	0 4	6 8 5	3 7 9	0 2	8 7 7	5 2 7	1 4 3	4 4 3	3 3 6	4 3 1										
08	5 1 2	2 7 4	0 3	6 6 8	4 0 4		8 5 9	4 5 1	1 3 4	3 9 2	3 3 1	3 8 8										
09	5 5 3	2 3 2		6 9 2	3 6 0		8 8 7	4 9 6	1 4 8	4 7 3	3 4 0	4 4 1	6 1 4	4 0 0								
10	5 0 2	3 0 5	0 6	6 5 8	3 9 3	0 3	8 5 4	5 2 5	1 3 3	4 1 2	3 2 8	4 1 6	6 0 4	4 0 0								
11	5 1 0	2 7 5	0 3	6 6 5	4 0 0		8 5 9	4 9 6	1 3 1	4 0 0	3 2 8	3 8 5	6 0 8	3 6 5	7 6 3	3 5 0						
12	5 1 3	2 9 5	0 3	6 5 9	4 0 3		8 5 9	5 2 5	1 2 8	4 0 3	3 2 4	3 9 3	6 0 3	3 8 0	7 5 7	3 6 6						
13	5 1 0	3 4 7	0 2	6 6 3	4 5 4		8 5 2	4 4 7	1 2 7	3 9 8	3 2 4	3 8 8										
14	5 1 2	3 2 8	0 3	6 5 6	4 2 2	0 1	8 5 6	5 0 6	1 2 8	4 0 6	3 2 4	3 9 3										
15	5 1 5	3 2 0	0 4	6 6 7	4 2 4	0 1	8 5 6	4 8 5	1 2 8	4 3 3	3 2 2	4 2 0										
16	5 4 0	2 3 2	0 8	7 0 1																		

**RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF FEBRUARY 1949**

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	9.65	005	7056	512	074	0034	056	120	0020	052	169	0008	050	276	5022	047	397	092	033			
02	4.82	004	7048	514	069	5009	039	115	5045	033	162	5077	028	265	5120	022	382	189	016			
03	9.95	005	2042	504	081	5041	027	126	5077	022	173	5117	019	274	5187	011	388	218	004			
04	0.05	004	1044	005	089	5038	033	134	5065	024	181	5097	025	283	5156	017	399	169	018			
05	0.12	005	6047	010	095	5032	033	140	0005	025	189	0024	035	296	5033	014	416	087	010			
06	0.21	006	5048	017	104	0130	027	152	0120	026	203	0103	038	312	0033	028	436	022				
07	0.20	005	9048	017	103	0092	056	151	0076	034	201	0059	023	309	0014	016	432	058	010			
08	0.10	006	5056	009	096	0095	082	143	0101	085	194	0080	066	303	5001	034	425	065	016			
09	0.00	004	8052	001	086	0028	051	152	0037	060	182	0029	060	289	5028	046	409	101	036			
10	0.13	009	5058	011	098	0039	057	144	0014	050	193	0010	046	299	5029	041	420	074	015			
11	0.22	007	3059	016	106	0129	040	153	0109	022	204	0078	020	312	0006	013	435	035				
12	0.18	006	9058	015	102	0076	054	149	0105	053	199	0072	050	308	0005	028	432	017				
13	9.95	005	5050	504	081	5017	126	5059	174	5084	277	5092	277	5092	395	152						
14	9.95	004	3052	504	081	5014	041	127	5047	032	174	5076	028	277	5148	018	392	225	009			
15	9.85	002	0042	512	073	0008	045	119	5028	036	166	5057	031	270	5118	022	387	200	006			
16	9.68	004	4042	509	076	5028	035	122	5056	030	168	5085	026	271	5134	020	386	217	013			
17	9.89	004	2045	509	076	5044	030	121	5075	024	168	5105	019	269	5164	010	384	232	007			
18	0.01	001	8035	001	085	5066	026	129	5110	019	175	5157	017	275	5200	012	387	270	006			
19	0.02	003	6034	002	086	5047	023	131	5090	017	177	5123	017	279	5121	005	397	151	011			
20	9.94	003	4043	500	084	5038	033	129	5059	012	176	5074	018	279	5135	014	395	222	009			
21	0.17	004	7042	014	099	5016	025	145	5019	011	193	5005	299	5027	420	092	011					
22	0.21	004	4045	017	102	5027	032	147	5041	046	195	5041	012	299	5080	014	419	122	011			
23	0.14	003	7042	012	096	5019	030	142	0023	028	191	0014	020	298	5026	010	418	105	007			
24	0.11	004	4044	009	094	5032	034	139	5056	030	187	5071	028	292	5039	039	412	100	026			
25	0.12	004	5050	010	095	5016	038	141	0012	049	190	0000	050	296	5042	033	417	099	016			
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	
03	520	330	02	673	413		870	402	143	452	334	466										
04	535	247	05	692	384	02	887	415	162	442												
05	556	154	07	720	297	03	918	452	182	482	370	518										
06	577	151	07	742	265	08	943	428														
07	572	166	06	736	257		938	419	200	583	381	566										
08	565	150	06	729	281	04	929	440	191	545	376	530	638	511								
09	548	185	18	710	306	08	911	358	185	473	374	498	638	506	784	490						
10	560	165		724	269	04	924	447	183	581	366	550	617	510	763	489						
11	577	106		744	254		640	7														
12	574	115		741	222		946	381	224	580	403	600	660	551	803	533						
13	530	264		687	388		880	443	154	455	343	485										
14	523	314	03	677	430																	
15	519	266		678	378	03	869	526	133	448												
16	518	216	07	673	413	04	865	468	137	429	330	429	604	414								
17	515	318	03	669	433	32	857	513	125	445	517	438										
18	517	345		669	439		861	457	131	450	324	444										
19	533	226		595	304	03	893	463	156	529	343	500	610	462								
20	529	260	04	685	406	02	878	434	152	424	345	437	617	453	766	442						
21	559	195	05	721	310		919	467														
22	556	210	04	716	344		911	494														
23	556	206	04	717	322	05	918	477	177	562	361	516	625	513	771	480						
24	551	199	12	714	279	07	915	416	178	547	363	520	625	532	768	523						
25	555	182	11	719	265	08	923	393														

**RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF MARCH 1949**

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									
01	9 9 9	0 0 5	7 0 6 6	5 0 0	0 8 6	0 1 2 8	1 0 4	1 3 4	0 1 0 2	0 6 9	1 8 4	0 0 7 5	0 5 3	2 9 3	0 0 5 4	4 1 7	0 3 5				
02	0 0 2	0 7 1	0 6 1	0 0 2	0 8 9	0 0 8 8	1 0 8	1 3 7	0 0 6 2	0 6 3	1 8 6	0 0 4 7	0 5 5	2 9 4	0 0 0 0	4 1 6	0 6 2	0 1 9			
03	9 9 2	0 0 7	6 0 5	5 0 5	0 8 0	0 0 2 7	0 5 1	1 2 6	5 0 0 8	0 4 2	1 7 5	5 0 3 9	0 2 2	2 0 9	5 0 0 9	4 0 3	0 4 5				
04	9 9 2	0 0 5	7 0 4 7	5 0 6	0 7 9	5 0 2 4	1 3 7	1 2 4	5 0 5 3	0 3 1	1 7 2	5 0 9 0	0 5 2	2 7 4	5 1 3 4	0 1 3	3 9 1	1 8 2	0 0 6		
05	0 0 0	0 0 3	9 4 1	0 0 1	0 8 5	5 0 5 1	0 2 5	1 3 0	5 0 7 2	0 2 3	1 7 7	5 1 1 5	0 1 9	2 7 8	5 1 3 9	0 1 4					
06	0 0 9	0 0 5	4 0 5 5	0 0 8	0 9 3	0 0 2 0	0 4 8	1 3 9	0 0 4 9	0 6 5	1 8 9	0 0 4 6	0 6 7	2 9 6	5 0 2 9	0 4 5	4 1 9	0 2 5	0 5 6		
07	0 0 8	0 0 4	5 0 4 7	0 0 7	0 9 3	0 0 7 0	0 1 2	1 3 9	0 0 5 0	0 2 0	1 8 8	0 0 2 1	0 2 9	2 9 6	5 0 0 5	0 2 1	4 1 8	0 3 3	0 1 0		
08	9 8 8	0 0 1	5 0 4 2	5 0 9	0 7 5	5 0 5 3	0 2 5	1 1 9	5 0 6 9	0 2 6	1 6 7	5 0 7 3	0 2 7	2 7 1	5 0 4 9	0 1 9	3 9 1	1 1 8	0 1 6		
09	0 5 1	0 0 4	5 0 3 7	0 2 5	1 0 9	5 0 5 9	0 1 6	1 5 3	5 0 5 5	0 0 7	2 0 1	5 0 2 6	0 0 9	5 0 5	5 0 8 7	0 0 9	4 2 3	1 5 3	0 0 6		
11	0 2 2	0 0 4	2 0 4 0	0 1 8	1 0 2	5 0 5 3	0 2 6	1 4 7	5 0 3 0	0 1 7	1 9 5	5 0 2 7	0 0 8	5 0 1	5 0 4 9	0 0 9	4 0 2	1 3 4	0 1 1		
12	9 9 8	0 0 7	2 0 6 3	5 0 1	0 8 7	0 1 3 3	1 0 5	1 3 5	0 1 1 3	0 9 9	1 8 5	0 0 8 3	0 8 5	2 9 5	5 0 1 2	0 4 7	4 1 8	0 2 6	0 4 3		
13	0 0 6	0 0 4	0 4 3	0 0 5	0 9 0	5 0 4 3	0 2 7	1 3 5	5 0 5 5	0 1 8	1 8 2	5 0 0 6	0 0 9	2 8 6	5 1 0 0	0 0 6	4 0 3	1 5 6	0 0 4		
14	0 0 0	0 0 4	8 0 5 0	0 0 1	0 8 5	5 0 1 6	0 3 4	1 3 1	5 0 4 0	0 2 1	1 7 8	5 0 7 4	0 1 8	2 8 1	5 0 9 0	0 1 8	4 0 1	1 2 1	0 1 5		
15	9 7 5	0 0 5	9 0 5 3	5 2 0	0 6 6	0 0 3 7	0 5 6	1 1 3	0 0 5 2	0 6 7	1 6 2	5 0 1 8	0 5 4	2 6 8	5 0 5 6	0 2 2	5 8 7	1 3 8	0 2 1		
16	9 9 7	0 0 2	9 0 3 6	5 0 2	0 8 2	5 0 4 9	0 2 8	1 2 7	5 0 8 5	0 2 2	1 7 4	5 1 1 9	0 1 7	2 7 5	5 1 7 8	0 0 6	3 8 9	2 1 7			
17	9 8 7	0 0 4	7 0 4 8	5 1 0	0 7 5	5 0 2 2	0 3 6	1 2 0	5 0 6 3	0 2 8	1 6 8	5 0 9 5	0 2 3	2 6 9	5 1 7 3	0 1 4	3 8 3	2 4 5	0 0 9		
18	0 0 5	0 0 4	4 0 4 6	0 0 5	0 9 1	5 0 3 2	0 3 4	1 3 6	5 0 6 0	0 2 9	1 8 3	5 1 0 0	0 2 3	2 8 5	5 1 3 3	0 1 8	4 0 1	2 0 1	0 0 4		
19	0 0 5	0 0 3	9 0 4 5	0 0 5	0 8 9	5 0 3 9	0 3 3	1 3 4	5 0 7 0	0 2 7	1 8 1	5 0 8 0	0 2 3	2 8 4	5 1 3 8	0 1 8	4 0 0	1 8 2			
20	0 0 4	0 0 2	6 0 3 5	0 0 4	0 8 8	5 0 5 8	0 2 7	1 3 2	5 0 9 9	0 2 2	1 7 8	5 1 3 4	0 1 7	2 7 6	5 2 1 3	0 1 0	3 9 1	2 3 7			
21	9 9 5	0 0 3	4 0 4 6	5 0 4	0 8 1	5 0 5 7	0 5 3	1 2 6	5 0 7 6	0 2 6	1 7 3	5 1 0 5	0 2 1	2 7 5	5 1 2 6	0 0 5	3 9 2	1 9 5	0 0 6		
22	9 9 6	0 0 3	3 0 4 6	5 0 5	0 8 2	5 0 3 7	0 5 3	1 2 7	5 0 4 9	0 3 1	1 7 4	5 0 9 2	0 2 5	2 7 6	5 1 2 0	0 2 2	3 9 3	1 7 8	0 1 5		
24	0 2 0	0 0 3	3 0 3 1	0 1 7	1 0 0	5 0 2 0	0 1 5	1 4 6	5 0 1 9	0 1 9	1 9 4	5 0 0 8	0 4 1	3 0 0	5 0 3 9	0 4 0	4 2 1	0 7 3	0 2 0		
25	0 1 0	0 0 4	2 0 5 1	0 0 9	0 9 4	0 0 0 2	0 4 4	1 4 0	0 0 0 0	0 4 6	1 8 8	0 0 0 3	0 3 5	2 9 5	0 0 0 5	0 2 6	4 1 7	0 7 8	0 1 7		
26	0 0 1	0 0 4	2 0 4 0	0 0 1	0 8 6	5 0 3 0	0 3 4	1 3 1	5 0 1 3	0 2 4	1 8 0	5 0 1 2	0 1 0	2 8 6	5 0 2 8	0 2 9	4 0 6	1 0 3	0 1 1		
27	0 0 5	0 0 5	2 0 5 5	0 0 3	0 8 9	5 0 5 4	0 6 3	1 3 5	5 0 4 5	0 6 4	1 8 5	5 0 0 1	0 5 4	2 8 4	5 1 3 8	0 1 0	3 9 1	2 3 7			
28	0 0 1	0 0 4	8 0 3 9	0 0 1	0 8 6	5 0 5 0	0 3 1	1 3 1	5 0 7 0	0 2 6	1 7 8	5 1 0 8	0 1 8	2 7 9	5 1 7 0	0 0 4	3 9 4	1 9 9			
29	9 8 4	0 0 0	1 0 4 0	5 1 2	0 7 1	5 0 4 8	0 3 0	1 1 6	5 0 6 7	0 2 8	1 6 3	5 1 1 2	0 2 1	2 6 7	5 1 6 9	0 1 4	3 8 1	2 5 6	0 0 6		
30	9 9 6	0 0 0	7 0 2 8	5 0 5	0 8 1	5 0 5 9	0 2 3	1 2 5	5 0 9 5	0 2 1	1 7 2	5 1 2 7	0 1 8	2 7 3	5 2 0 5	0 0 5	3 8 6	2 6 0	0 0 3		
31	9 8 5	0 0 1	7 0 4 1	5 1 2	0 7 3	5 0 4 4	0 3 2	1 1 8	5 0 7 3	0 2 6	1 6 5	5 1 0 5	0 2 2	2 6 8	5 1 0 7	0 2 3	3 8 6	1 5 7	0 2 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	HHH	TTT	HHH	TTT	HHH	TTT	HHH	TTT	HHH	TTT	HHH	TTT	HHH	TTT		
02	5 5 7	1 4 4	0 7	7 2 2	2 7 0		9 2 2	4 3 4	1 8 6	5 6 5	3 7 0	5 3 3												
04	5 2 4	3 0 1	0 4	6 7 9	3 9 5		9 0 2	4 1 7	1 7 7	4 0 5	3 7 1	4 4 1												
07	5 0 6	1 3 9	2 3 3		2 4 5		9 2 6	3 9 5	1 9 0	6 0 2	3 6 8	6 0 2	6 2 4	5 4 2	7 6 7	5 3 0								
08	5 2 7	2 4 5	0 5	6 8 5	3 4 0		8 8 4	3 9 7	1 5 8	4 4 5	3 4 5	4 9 4	6 1 1	5 0 7										
09	5 5 9	2 3 6	0 5	7 1 9	3 5 0	0 4	9 1 4	4 8 6	1 7 3	5 6 2	3 5 9	5 0 7	6 2 4	4 8 7										
11	5 5 7	2 1 5	1 0	7 1 8	3 2 9	0 4	9 1 5	4 5 0	1 7 5	5 9 1	3 5 8	5 3 0	6 2 0	5 1 7	7 6 7	4 8 2	9 5 7	4 4 0						
12	5 6 1	1 1 9	2 8	7 2 9	3 2 2	1 0	9 3 3	3 9 4	1 9 6	6 3 9	3 7 2	6 0 8	6 0 8	6 2 6	7 6 8	4 9 3								
13	5 3 8	2 4 4	0 3	6 9 8	3 1 1		8 9 7	4 3 3	1 6 7	4 7 2	3 5 5	5 0 5	6 1 9	5 0 2	7 6 5	4 9 3								
14	5 3 8	2 1 2	1 0	6 9 9	3 0 2	0 4	9 0 0	4 6 5	1 5 9	5 5 2	3 4 4	5 2 6												
15	5 2 3	1 8 9	0 7	6 8 6	3 0 2	0 5																		
16	5 2 5	2 6 8		6 8 0	3 7 2		8 7 4	4 9 9	1 4 1	4 5 7	3 3 1	4 8 0	5 9 9	4 6 9										
17	5 1 3	3 2 9	0 3	6 6 7	3 8 7		8 6 2	4 1 5	1 3 7	4 2 6	3 2 7	4 8 9												
18	5 3 4	2 6 4	0 4	6 9 1	4 0 0	0 2	8 8 4	4 8 2																
19	5 3 3	2 9 5	0 3	6 8 8	4 1 1		8 8 0	4 8 7																
20	5 2 4	2 6 1		6 8 2	3 6 5		8 7 5	4 9 5	1 3 8	4 7 9	3 2 8	4 7 7												
21	5 2 4	2 9 9	0 4	6 7 9	4 1 9	0 2	8 7 0	4 6 5	1 4 1	4 5 6	3 3 3	4 4 4												
22	5 2 7	2 7 3	0 7	6 8 4	3 7 8	0 3	8 7 6	5 0 3	1 4 1	4 4 9	3 3 5	4 3 6												
24	5 6 1	1 4 1	2 3	7 2 6	2 7 0	0 4	9 2 7	4 1 8	1 9 1	5 8 5	3 7 3	5 6 2	6 3 0	5 5 4										

**RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF APRIL 1949**

DAY	SURFACE			1000 MB			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 0	0 0 2	0 0 2	9	0 0 1	0 8 4	5 0 5 6	0 2 6	1 2 9	5 0 7 5	0 1 4	1 7 6	5 0 9 9	2 7 9	5 0 9 9	0 0 8	3 9 7	1 3 6	0 0 5				
02	9 9 6	0 0 0	9 3 4	5 0 3	0 8 1	5 0 4 4	0 9 0	0 0 4 3	0 5 8	1 3 6	0 0 3 1	0 5 7	1 8 5	5 0 0 3	0 4 2	2 9 2	5 0 2 6	0 3 2	4 1 3	0 7 7	0 2 3		
03	0 0 4	0 0 5	0 5 2	0 0 4	0 9 0	0 0 4 3	0 0 6 8	0 0 7 6	0 7 3	1 4 1	0 0 3 6	0 5 9	1 9 0	0 0 3 8	0 6 4	2 9 8	0 0 1 6	0 2 0	4 2 1	0 2 7	0 1 1		
04	0 0 8	0 0 7	2 0 6 1	0 0 7	0 9 4	0 0 7 6	0 0 7 3	1 4 1	0 0 3 6	0 5 9	1 9 0	0 0 3 8	0 6 4	1 8 9	0 0 3 4	0 5 5	2 9 7	0 0 1 1	0 5 0	4 2 0	0 4 3	0 3 5	
05	0 0 7	0 0 6	7 0 5 9	0 0 6	0 9 3	0 0 6 8	0 0 6 8	1 4 0	0 0 5 4	0 5 4	1 8 9	0 0 3 4	0 5 5	2 9 7	0 0 1 1	0 5 0	4 2 0	0 4 3	0 3 5				
06	0 0 2	0 0 5	0 0 5 4	0 0 2	0 8 8	0 0 6 5	0 6 7	1 3 5	0 0 6 8	0 7 4	1 8 5	0 0 4 3	0 6 7	3 1 2	5 0 1 4	0 5 0							
07	9 8 7	0 0 5	0 0 4 7	5 1 9	0 7 5	5 0 1 2	0 4 0	1 2 1	5 0 1 6	0 5 7	1 6 9	5 0 3 7	0 5 0	2 7 3	5 1 0 6	0 1 1							
08	9 8 4	0 0 3	9 0 4 1	5 0 9	0 7 7	5 0 2 4	0 3 2	1 2 1	5 0 6 0	0 2 5	1 6 9	5 0 9 7	0 2 2	2 7 0	5 1 1 6	0 1 5	3 8 5	2 4 7	0 0 8				
09	0 0 8	0 0 4	2 0 4 6	0 0 7	0 9 1	5 0 4 6	0 3 3	1 3 6	5 0 8 4	0 2 4	1 8 5	5 1 1 1	0 2 2	2 8 4	5 1 1 6	0 1 5	3 9 8	2 6 3	0 0 6				
10	0 0 0	0 0 3	5 0 4 8	0 0 1	0 8 5	5 0 1 7	0 3 0	1 3 1	5 0 2 8	0 2 5	1 7 6	5 0 4 8	0 3 4	2 8 5	5 0 3 7		4 0 5	0 4 5					
11	9 7 5	0 0 4	1 0 4 9	5 2 0	0 6 5	5 0 0 8	0 4 0	1 1 1	5 0 3 4	0 5 9	1 5 8	5 0 6 6	0 3 0	2 6 1	5 1 3 1	0 2 0	3 7 8	1 6 8	0 0 7				
12	9 9 5	0 0 2	2 0 4 5	5 0 2	0 8 1	5 0 2 6	0 3 5	1 2 6	5 0 2 9	0 3 8	1 7 4	5 0 4 6	0 3 6	2 7 9	5 0 8 4	0 3 0	3 9 5	1 4 9	0 2 5				
13	0 0 2	0 0 2	1 0 3 5	5 0 2	0 8 6	5 0 5 8	0 2 6	1 3 0	5 0 9 6	0 2 2	1 7 7	5 1 5 0	0 1 9	2 7 7	5 2 0 0	0 1 1	3 9 1	2 5 8					
14	0 1 4	0 0 3	1 0 4 0	0 1 2	0 9 6	5 0 5 5	0 2 8	1 4 1	5 0 0 9	0 1 7	1 8 9	5 0 0 4	0 1 0										
15	9 8 6	0 0 5	2 0 5 4	5 0 5	0 8 5	0 1 1 6	0 9 7	1 3 1	5 0 1 0	0 9 4	1 8 5	5 0 7 1	0 8 2	2 9 1	5 0 1 8	0 5 4	4 1 4	0 5 7	0 3 6				
16	9 8 4	0 0 3	8 0 3 6	5 0 9	0 7 6	5 0 4 2	0 2 5	1 2 1	5 0 9 1	0 2 2	1 6 8	5 1 2 8	0 1 9	2 6 9	5 1 5 3	0 3 4	3 8 4	2 1 1					
17	9 8 4	0 0 4	7 0 5 4	5 1 3	0 7 5	0 0 7	0 4 7	1 2 0	5 0 2 4	0 5 4	1 6 8	5 0 0 5	0 5 0	2 7 4	5 0 7 4	0 3 1		3 7 9	2 2 7	0 0 4			
18	9 8 4	0 0 2	9 0 3 6	5 5 2	0 6 8	5 0 3 0	0 3 5	1 1 4	5 0 6 4	0 2 8	1 6 1	5 0 8 2	0 2 2	2 6 4	5 1 3 1	0 0 5							
19	9 8 4	0 0 1	7 0 4 1	5 1 3	0 7 2	5 0 4 8	0 3 0	1 1 7	5 0 8 7	0 2 3	1 6 3	5 1 2 3	0 2 0	2 6 3	5 1 9 9	0 1 2	3 7 5	3 0 1	0 0 7				
20	9 7 9	0 0 4	0 0 4 2	5 1 7	0 6 8	5 0 2 5	0 3 4	1 1 3	5 0 6 6	0 2 7	1 6 0	5 0 9 7	0 2 2	2 6 2	5 1 5 0	0 0 5	3 7 9	1 9 7					
21	9 6 4	0 0 1	1 0 3 7	5 1 5	0 7 2	5 0 5 7	0 2 7	1 1 6	5 0 9 5	0 2 2	1 6 3	5 1 1 7	0 2 0	2 6 4	5 1 8 7	0 1 3	3 7 7	2 7 6	0 0 7				
22	0 0 0	0 0 0	9 0 2 8	0 0 5	0 8 9	5 0 7 8	0 2 1	1 3 3	5 1 2 1	0 1 6	1 7 9	5 1 4 9	0 1 1	2 7 9	5 2 0 2	0 0 4	3 9 2	2 4 4					
23	0 1 4	0 0 2	0 0 2 5	0 1 2	9 5 0	5 0 7 5	0 2 0	1 3 9	5 1 1 8	0 1 4	1 8 6	5 0 9 6	0 0 9	2 8 9	5 1 0 6	0 0 5	4 0 6	1 7 2	0 1 6				
24	9 7 1	0 0 2	2 0 4 2	5 0 7	0 7 7	5 0 5 1	0 3 0	1 2 2	5 0 8 3	0 2 4	1 6 9	5 1 1 6	0 1 7	2 6 9	5 1 8 6	0 1 3	3 8 3	1 6 9	0 0 8				
25	0 0 1	0 0 2	7 0 3 4	0 0 1	0 8 5	5 0 6 2	0 2 7	1 2 9	5 1 4 8	0 1 6	1 7 6	5 1 4 3	0 1 6	2 7 7	5 1 3 4	0 0 5	3 9 4	1 9 5	0 0 4				
26	0 0 2	0 0 3	6 0 4 7	0 0 2	9 8 7	0 0 0 9	0 4 5	1 3 3	5 0 2 9	0 5 6	1 8 3	5 0 3 7	0 6 2	2 9 1	5 0 1 2	0 5 9	4 1 2	0 9 2	0 3 1				
27	9 8 8	0 0 6	0 0 5 4	5 0 1	0 8 4	0 0 0 8	0 4 3	1 3 0	5 0 3 2	0 5 5	1 8 0	5 0 0 3	0 5 8	2 8 7	5 0 3 6	0 4 1	4 0 8	0 9 0	0 0 5				
28	0 1 3	0 0 2	8 0 4 0	0 1 1	0 9 5	5 0 4 9	0 3 0	1 3 9	5 0 7 6	0 2 5	1 8 6	5 1 1 5	0 2 0	2 8 7	5 1 8 1	0 0 6	4 0 2	1 7 0	0 0 5				
29	9 8 8	0 0 2	8 0 4 5	5 0 9	0 7 5	5 0 3 6	0 3 2	1 2 0	5 0 4 0	0 2 5	1 6 6	5 0 5 5	0 2 5	2 7 2	5 0 7 5	3 9 1	1 2 5	0 1 0					
30	0 0 6	0 0 2	5 0 3 3	0 0 5	0 8 9	5 0 5 4	0 2 8	1 3 4	5 0 8 7	0 2 5	1 8 1	5 1 1 9	0 1 8	2 8 2	5 1 4 9	0 0 5	3 9 7	2 2 0					
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 3 5	1 9 4	0 5	5 9 7	3 0 5	0 3	9 6 2	4 5 5	1 6 1	4 5 6	3 5 0	4 7 8	6 1 5	5 1 3	7 6 1	4 8 4	9 5 1	4 5 0					
02	5 2 6	2 1 7		6 8 7	3 2 7	0 8	8 1 8	4 2 0	1 8 0	6 3 2	3 6 2	5 5 5	6 1 9	5 5 0	7 6 2	5 3 0	9 4 8	5 0 5					
03	5 5 3	1 6 5	5 1	7 1 7	2 7 2	0 8	9 3 3	3 8 9	1 9 9	5 7 4	3 8 1	5 4 5	6 4 2	5 0 8	7 8 8	4 8 0							
04	5 6 5	1 2 5		7 2 9	2 3 5	1 1	9 3 1	4 0 1															
05	5 6 1	1 2 7	1 9	7 2 8	2 3 6	1 1	9 5 8	4 6 4	1 3 1	4 1 6	3 2 5	4 3 3	5 9 7	4 5 7	7 4 5	4 6 5	9 3 5	4 4 8					
06	5 1 5	3 3 8	0 5	6 6 8	4 3 0		8 7 3	5 1 2	1 3 0	4 9 0	3 2 7	4 3 5	5 9 4	4 8 0									
07	5 2 9	3 1 5	0 5	6 8 3	4 3 1		9 0 5	4 6 1	1 4 4	4 9 1	3 3 3	4 8 8	6 0 1	4 7 5	7 4 8	4 6 5	9 4 5	4 5 0					
10	5 4 5	1 6 8		7 0 8	3 1 5		8 0 5	5 1 1	1 4 4	4 9 1	3 3 3	4 8 8	6 0 1	4 7 5	7 4 8	4 6 5	9 4 5	4 5 0					
11	5 1 3	2 4 6	0 5	6 7 1	3 8 4		8 6 2	4 6 7	1 3 2	4 4 2	3 2 5	4 2 9	5 4 6	4 1 9	7 4 8	4 6 5	9 4 5	4 5 0					
12	5 3 1	2 4 5	1 0	6 9 0	3 5 9	0 5	8 6 2	4 6 7	1 3 2	4 4 2	3 2 5	4 2 9	5 4 6	4 1 9	7 4 8	4 6 5	9 4 5	4 5 0					
13	5 2 0	3 6 2	6 7 1	6 7 1	4 3 4		9 2 0	1 8 0	6 2 7		3 5 8	5 6 8	6 2 1	4 7 7									
15	5 5 4	1 5 1	1 0	7 2 0			9 7 8	5 1 7	1 3 6	5 5 9	3 2 0	5 3 9	5 8 0	5 3 7	7 2 5	5 4 5	9 2 1	5 1 7					
16	5 1 6	3 2 5					9 6 2	5 1 6															
18	5 1 1	2 8 5		6 6 9	3 6 1		8 4 2	4 2 9	1 1 0	4 6 5	3 0 1	4 7 3											
19	5 0 2	4 1 3		6 5 4	4 8 4		8 5 4	4 7 0	1 2 5	4 7 2	3 1 3	4 7 0											
20	5 1 1	3 2 1		6 6 4	4 4 1		8 5 4	4 7 0	1 2 5	4 7 2	3 1 3	4 7 0											
21	5 0 5	3 6 7	0 3	5 5 5	4 9 3		8 4 2	5 1 0	1 1 1	4 6 1	3 0 2	4 6 0	5 7 2		4 5 8								
22	5 2 5	2 6 7	0 3	5 8 4	3 4 6	0 5	8 7 8	5 0 9	1 3 4	5 5 2	3 1 7	5											

**RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF MAY 1949**

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										
01	9 87	0 02	7 0 4 1	5 1 0	0 7 5	5 0 2 8	0 3 6	1 2 0	5 0 6 5	0 2 8	1 6 7	5 0 9 7	0 2 4	2 6 8	5 1 7 5	0 1 5	3 8 2	2 5 3	0 0 9				
02	9 83	0 02	5 0 3 7	5 1 3	0 7 1	5 0 3 8	0 3 0	1 1 6	5 0 8 0	0 2 4	1 6 2	5 1 9 6	0 2 0	2 6 3	5 1 9 4	0 1 2	3 7 6	2 9 9	0 0 6				
03	9 85	0 01	1 0 3 0	5 1 2	7 2 2	5 0 6 1	0 2 7	1 1 7	5 0 9 8	0 2 1	1 6 3	5 1 2 7	0 1 9	2 6 4	5 2 0 0	0 1 3	3 7 6	2 9 6	0 0 5				
04	9 98	0 00	2 0 2 7	5 0 1	0 8 2	5 0 8 3	0 2 0	1 2 0	5 1 3 0	0 1 7	1 7 2	5 1 6 0	0 1 4	2 7 1	5 2 1 8	0 0 5	3 8 4	2 5 9	0 0 9				
05	9 92	0 01	4 0 3 2	5 0 5	0 7 8	5 0 6 3	0 2 6	1 2 2	5 1 0 2	0 1 8	1 6 9	5 1 0 0	0 1 1	2 7 0	5 1 6 6	0 0 5	3 8 3	2 7 2					
06	9 96	0 02	2 0 4 1	5 0 5 7	0 8 1	5 0 4 4	0 3 1	1 2 6	5 0 7 1	0 2 7	1 7 3	5 0 8 8	0 2 3	2 7 6	5 0 9 5	0 0 9	3 9 4	1 6 3	0 0 9				
07	9 64	0 00	6 0 4 0	5 2 5	0 5 9	5 0 6 3	0 2 8	1 0 4	5 0 9 0	0 2 3	1 5 0	5 1 2 6	0 2 0	2 5 1	5 2 0 4	0 0 9	3 6 3	2 8 7	0 0 2				
08	9 90	0 01	1 0 3 0	5 0 7	0 7 6	5 0 6 7	0 2 4	1 2 0	5 1 0 6	0 1 9	1 6 7	5 1 5 8	0 1 2	2 6 7	5 2 1 2	0 0 6	3 7 6	2 9 2	0 0 4				
09	9 87	5 0 1	2 0 2 8	5 1 0	0 7 3	5 0 7 2	0 2 0	1 1 7	5 1 1 0	0 1 3	1 6 4	5 1 4 7	0 1 2	2 6 3	5 1 8 6	0 0 9	3 7 8	1 8 9					
10	0 03	0 01	6 0 3 1	5 0 0 5	0 8 7	5 0 6 6	0 2 5	1 3 1	5 1 0 4	0 2 0	1 7 8	5 1 0 7	0 1 1	2 8 0	5 1 4 0	0 1 3	3 9 6	1 9 9	0 1 2				
11	9 97	0 02	8 0 4 7	5 0 2	5 0 3 1	5 0 3 5	1 2 8	0 0 2 3	0 5 4	1 7 7	5 0 2 4	0 4 9	2 8 4	5 0 2 0	0 4 6	4 0 5	1 0 2	0 2 8					
12	0 07	0 02	1 0 4 1	5 0 0 5	0 9 0	5 0 4 6	0 3 0	1 3 5	5 0 4 1	0 3 4	1 8 3	5 0 5 9	0 3 6	2 8 9	5 0 4 0	0 4 0	4 0 9	1 1 9	0 2 3				
13	9 95	0 01	7 0 2 8	5 0 3	0 8 5	5 0 5 7	0 2 5	1 2 4	5 0 9 9	0 2 2	1 7 1	5 1 2 7	0 1 3	2 7 1	5 2 0 5	0 0 4	3 8 5	2 1 0					
14	0 15	0 01	4 0 2 6	5 0 1 2	0 9 5	5 0 7 6	0 2 1	1 3 9	5 1 1 6	0 1 9	1 8 6	5 0 9 6	0 1 0	2 9 0	5 0 9 3	0 4 0	4 0 7	1 7 0					
15	0 05	0 05	5 0 4 7	5 0 2	5 0 8 3	5 0 2 6	0 5 1	1 3 0	0 0 3 7	0 6 0													
16	0 05	0 01	5 0 5 4	5 0 0 5	0 8 7	5 0 5 8	0 2 1	1 3 2	5 0 5 5	0 0 9	1 8 0	5 0 3 4		2 8 4	5 0 7 4		4 0 3	1 3 3					
17	9 97	0 02	7 0 4 2	5 0 2	5 0 6 0	5 1 5	0 6 9	1 3 2	1 1 3	5 0 8 0	0 2 4	1 7 3	5 0 8 0		2 7 6	5 1 0 5		3 9 3	1 9 9				
18	9 89	0 03	5 0 5 8	5 0 6	0 7 7	5 0 3 8	0 5 7	1 2 3	5 0 3 3	0 5 8	1 7 2	5 0 1 4	0 5 5	2 7 9	5 0 4 6	0 4 0	4 0 0	1 2 1	0 3 3				
19	9 80	0 02	7 0 3 9	5 1 5	0 6 9	5 0 3 7	0 3 2	1 1 3	5 0 8 0	0 2 4	1 6 0	5 1 1 0	0 2 1	2 6 2	5 1 6 5	0 0 8	3 7 6	2 1 9	0 0 6				
20	9 83	0 01	7 0 3 5	5 1 3	0 7 1	5 0 4 5	0 3 0	1 1 5	5 0 8 6	0 2 3	1 6 2	5 1 1 4	0 1 6	2 6 3	5 1 9 0	0 1 1	3 7 5	2 9 0	0 0 6				
21	0 15	0 01	6 0 2 6	5 0 1 3	0 9 6	5 0 7 6	0 2 2	1 4 0	5 1 1 1	0 1 9	1 8 6	5 1 3 9	0 1 7	2 8 7	5 1 7 0	0 0 5	4 0 1	2 1 9					
22	0 09	0 01	7 0 3 9	5 0 8	0 9 1	5 0 6 8	0 2 6	1 3 6	5 1 0 3	0 2 0	1 8 2	5 1 2 6	0 1 7	2 8 4	5 1 3 4	0 0 7	4 0 2	1 5 3	0 0 7				
23	0 10	0 01	8 0 4 0	5 0 9	0 9 2	5 0 6 6	0 2 6	1 3 7	5 0 9 6	0 2 1	1 8 3	5 1 0 5	0 2 0	2 8 5	5 1 4 9	0 1 2	4 0 5	1 3 0	0 0 7				
24	9 97	0 05	7 0 5 6	5 0 2	5 0 8 3	5 0 0 0	0 4 3	1 2 9	5 0 2 0	0 5 2	1 7 8	5 0 0 2	0 4 8	2 8 4	5 0 4 9	0 3 8							
25	9 86	0 05	6 0 5 4	5 1 1	0 7 4	0 0 0 1	0 4 4	1 2 0	5 0 2 3	0 3 9	1 6 8	5 0 3 7											
26	9 89	0 01	7 0 3 9	5 0 8	0 7 6	5 0 4 4	0 3 1	1 2 1	5 0 7 4	0 2 6	1 6 7	5 1 0 9	0 2 0	2 6 9	5 1 8 4	0 1 3	3 8 2	2 5 9	0 0 7				
27	9 86	5 0 0	8 0 3 4	5 1 1	0 7 3	5 0 5 8	0 2 9	1 1 7	5 0 8 5	0 2 4	1 6 4	5 1 1 0	0 2 0	2 6 6	5 1 8 0	0 1 3	3 7 9	1 6 8	0 0 9				
28	9 80	0 00	8 0 4 1	5 1 5	0 6 8	5 0 4 0	0 3 3	1 1 3	5 0 7 3	0 2 6	1 6 0	5 1 0 3	0 2 1	2 6 1	5 1 7 9	0 1 3	3 7 5	2 6 4	0 0 8				
29	9 99	0 01	7 0 4 0	5 0 0	0 8 4	5 0 5 6	0 2 6	1 2 8	5 0 9 5	0 2 2	1 7 5	5 0 7 6	0 2 0	2 7 8	5 1 1 9	0 0 7	3 9 4	1 9 0					
30	9 71	0 01	8 0 4 2	5 2 3	0 6 1	5 0 4 0	0 3 2	1 0 6	5 0 7 5	0 2 6	1 5 3	5 1 0 8	0 2 1	2 5 4	5 1 6 9	0 1 4	3 7 0	1 7 3	0 1 6				
31	9 91	5 0 3	0 0 2 5	5 0 7	0 7 5	5 1 0 7	0 1 7	1 1 9	5 1 4 4	0 1 3	1 6 5	5 1 2 5	0 0 8	2 6 5	5 1 6 2		3 8 0	2 1 5	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 3	2 9 5	0 5	6 6 8	3 9 8	0 3	8 5 8	5 3 0		9 4 3	5 8 0	1 0 2	5 3 7	2 8 8	5 2 0							
02	5 0 4	3 4 7		6 5 7	4 3 2					5 6 0	6 2 0	1 0 7	5 0 8	2 9 5	4 9 6	5 5 9	4 9 7	7 0 5	4 9 6	8 9 2	5 2 9	
03	5 0 5	3 4 1	0 4	6 5 7	4 5 0					5 6 1	6 2 0	1 0 7	5 0 8	2 9 7	5 2 2							
04	5 1 4	3 5 1	0 3	6 6 6	4 5 9					6 4 8	5 1 5	1 1 1	5 1 7	2 9 7	5 2 2							
05	5 1 2	3 9 4		6 6 1	4 8 4					6 8 6	5 3 1	1 3 7	5 9 1	3 1 9	5 5 1	5 7 8	5 5 6	1 7 2	5 4 6			
06	5 2 9	2 4 6	0 7	6 9 4	3 7 4	0 3				8 5 7	4 9 9	0 9 9	5 2 5	2 8 4	5 3 7							
07	4 9 2	3 6 1		6 4 5	3 9 8					8 5 7	5 0 1	1 1 5	5 7 2	2 9 8	5 5 3	5 5 4	5 9 2					
08	5 0 8	3 1 6	0 2	6 6 4	3 6 9	0 2				8 9 5	4 7 7	1 5 2	6 2 6									
09	5 0 2	2 5 4		6 6 9	3 9 4					8 6 0	5 3 2	1 3 0	4 9 6	3 1 7	5 1 9	5 7 8	5 2 6	7 2 1	5 2 6			
10	5 2 9	2 7 5	0 9	6 8 5	3 8 5	0 5				6 9 8	3 0 9	0 8	8 9 5	4 7 7	1 5 2	6 2 6						
11	5 4 3	1 8 5	1 6	7 0 8	3 0 0					8 7 5	3 7 0	0 4										
12	5 4 6	1 9 7		6 8 2	3 1 1					8 8 7	5 5 4	1 4 1	5 6 6	3 2 4	5 4 6	5 8 3	5 3 5	7 2 5	5 5 9	9 0 7	5 8 5	
13	5 2 1	2 1 3		6 9 7	4 1 0					8 6 6	4 4 8	1 4 0	5 2 0	3 0 3	5 2 8							
14	5 4 1	2 7 2		7 0 0	3 3 9					8 7 3	5 6 0	1 2 7	5 5 1	2 9 9	5 0 0	5 6 2	5 3 2	7 0 5	5 5 4	8 8 7	5 8 0	
15	5 3 9	2 1 5		7 0 0	3 3 9					8 7 3	5 6 0	1 2 7	5 5 1	3 1 3	5 3 9	5 7 1	5 5 3	7 1 4	5 4 7			
16	5 0 3	4 0 5	0 2																			

**RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF JUNE 1949**

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 0 0	0 0 5	0 0 5	5 1 6	0 7 0	5 0 2	0 4 2	1 1 5	0 0 2 5	0 5 4	1 6 4	0 0 0 9	0 5 1	2 7 1	5 0 5 5	0 3 7	3 9 0	1 0 5	0 3 0			
02	9 0 4	0 0 4	0 0 4	5 0 0	0 7 5	5 0 7 4	0 2 4	1 1 9	5 1 1 7	0 1 4	1 6 5	5 1 5 3	0 1 6	2 6 5	5 2 3 0	0 0 9	3 7 8	3 1 7	0 0 4			
03	9 0 9	0 0 9	0 0 9	5 0 3	0 7 5	5 0 6	0 2 5	1 2 0	5 1 0 9	0 1 9	1 6 6	5 1 4 1	0 1 4	2 6 6	5 2 1 4	0 0 4	3 7 6	3 1 3	0 0 2			
04	9 0 0	0 0 0	0 0 0	5 0 8	0 7 5	5 0 6	0 2 5	1 1 2	5 1 0 6	0 2 0	1 5 9	5 1 4 0	0 1 7	2 5 9	5 2 0 9	0 1 0	3 7 1	2 6 4				
05	9 7 4	0 0 1	0 0 1	5 0 0	0 3 0	5 1 7	0 6 8	5 0 6 3	0 2 5	1 1 2	5 0 8 9	0 2 1	1 5 4	5 1 2 8	0 1 7	2 5 9	5 1 8 9	0 0 9	3 7 2	2 3 2	0 0 6	
06	9 7 1	0 0 2	0 0 2	5 2 3	0 6 0	5 0 9 9	0 1 9	1 0 4	5 1 3 6	0 1 6	1 6 3	5 1 7 0	0 1 3	2 4 6	5 2 3 9	0 0 9	3 5 8	3 5 5	0 0 6			
07	9 0 4	0 0 4	0 0 4	5 0 0	0 2 0	5 0 2	0 7 4	5 1 0	0 1 6	1 1 7	5 1 5 5	0 1 0	1 6 3	5 1 9 1	0 1 0	2 6 1	5 2 4 6	0 0 3	2 6 1	2 9 2		
08	9 0 7	0 0 7	0 0 7	5 0 0	0 2 7	5 1 0	0 7 4	5 0 6	0 2 3	1 1 6	5 1 1 4	0 1 9	1 6 4	5 1 4 7	0 1 3	2 6 5	5 1 2 4	0 1 6	3 8 2	1 5 2		
09	9 0 5	0 0 1	0 0 1	5 0 1	0 4 0	5 1 2	0 7 2	5 0 4 7	0 3 0	1 1 7	5 0 8 5	0 2 4	1 6 4	5 1 1 8	0 2 0	2 6 5	5 1 6 1	0 1 6	3 8 0	2 2 8	0 1 0	
10	9 0 1	0 0 1	0 0 1	5 0 0	0 3 1	5 1 5	0 6 9	5 0 7 0	0 2 5	1 1 3	5 1 1 1	0 1 9	1 5 4	5 1 4 5	0 1 6	2 5 9	5 1 0 9	0 1 1	3 7 2	2 9 0	0 0 6	
11	9 0 4	0 0 4	0 0 4	5 0 1	0 2 4	5 1 2	0 7 1	5 0 7 4	0 2 3	1 1 5	5 0 5 6	0 2 2	1 6 1	5 1 2 2	0 2 0	2 6 2	5 1 9 0	0 1 2	3 7 6	2 3 7	0 1 0	
12	9 0 6	0 0 6	0 0 6	5 1 1	0 7 2	5 1 0	1 0 9	1 1 5	5 1 5 0	0 1 4	1 6 1	5 1 7 8	0 1 1	2 6 0	5 2 1 5	0 1 6	3 7 2	2 9 1				
13	9 0 2	0 0 2	0 0 2	5 0 5	0 5 1	5 0 7	0 7 7	5 0 8 3	0 2 3	1 2 1	5 1 0 6	0 2 0	1 6 8	5 1 4 4	0 1 6	2 6 7	5 2 1 7	0 1 0	3 7 9	3 0 0	0 0 5	
14	9 0 0	0 0 0	0 0 0	5 0 7	0 6 7	5 0 6 5	0 2 6	1 2 1	5 0 7 4	0 2 5	1 6 8	5 0 3 5	0 2 5	2 7 1	5 0 9 8	0 2 6	3 8 8	1 8 0	0 1 9			
15	9 0 1	0 0 1	0 0 1	5 0 6	0 2 4	5 1 5	0 6 9	5 0 7 5	0 1 7	1 1 3	5 1 1 7	0 1 8	1 5 4	5 1 6 0	0 1 3	2 5 6	5 2 2 8	0 0 6	3 6 9	2 7 2		
16	9 0 0	0 0 0	0 0 0	5 0 7	0 3 2	5 1 1	0 6 7	5 0 9 0	0 2 2	1 1 1	5 1 2 0	0 1 8	1 5 7	5 1 5 6	0 1 5	2 5 6	5 2 3 8	0 0 8	3 6 7	2 9 5	0 0 2	
17	9 0 6	0 0 6	0 0 6	5 0 2	0 2 8	5 1 1	0 7 2	5 1 0 1	0 2 0	1 1 6	5 1 3 2	0 1 6	1 6 2	5 1 5 6	0 1 3	2 5 8	5 2 6 0	0 0 7	3 6 8	3 3 7	0 0 3	
18	9 0 6	0 0 6	0 0 6	5 0 2	0 2 5	5 1 1	0 7 1	5 1 2 5	0 1 6	1 1 4	5 1 6 0	0 1 3	1 6 0	5 1 9 6	0 1 0	2 5 8	5 2 6 0	0 0 7	3 6 8	3 3 7	0 0 3	
19	9 0 5	0 0 5	0 0 5	5 0 2	0 2 1	5 0 2	0 8 0	5 1 0 4	0 1 7	1 2 4	5 1 4 6	0 1 5	1 6 9	5 1 8 7	0 1 0	2 6 0	5 2 2 7	0 0 9				
20	9 0 7	0 0 7	0 0 7	5 0 3	0 0 1	5 0 0	0 8 5	5 0 6	0 2 7	1 2 9	5 0 5 4	0 3 0	1 7 7	5 0 4 0	0 1 4	2 6 5	5 0 5 5		4 0 1	1 4 0		
21	9 0 1	0 0 1	0 0 1	5 0 0	0 3 4	5 0 4	0 9 2	5 0 2 6	0 3 5	1 3 8	5 0 1 4	0 3 0	1 8 6	5 0 0 2	0 1 5	2 9 2	5 0 6 5	0 0 8	4 1 1	1 4 3	0 0 6	
22	9 0 1	0 0 1	0 0 1	5 0 1	0 7 0	5 0 9	0 0 9	5 0 9 2	0 2 6	1 3 7	5 0 7 8	0 2 5	1 8 3	5 1 1 1	0 1 6	2 8 5	5 1 0 6	0 0 6	4 0 2	1 7 4	0 0 4	
23	9 0 1	0 0 1	0 0 1	5 0 1	0 7 0	5 0 9	0 0 9	5 0 5 5	0 2 5	1 1 8	5 0 9 9	0 2 1	1 6 3	5 1 2 2	0 0 6	2 5 8	5 2 0 3	0 0 7	3 7 6	2 8 9	0 0 2	
24	9 0 6	0 0 1	0 0 1	5 0 3	0 3 5	5 1 1	0 7 3	5 0 5 6	0 2 5	1 1 8	5 0 9 9	0 2 1	1 6 3	5 1 2 2	0 0 6	2 5 8	5 2 0 3	0 0 8	3 7 9	3 2 1	0 0 4	
25	9 0 6	0 0 1	0 0 1	5 0 2	0 2 6	5 1 1	0 7 2	5 0 9 1	0 1 8	1 1 7	5 1 0 0	0 0 6	1 6 3	5 1 2 2	0 0 6	2 6 4	5 2 3 9	0 0 8	3 7 9	2 2 8		
26	9 0 8	0 0 2	0 0 2	5 0 1	0 2 1	5 0 1	0 8 1	5 1 0 8	0 1 5	1 2 5	5 1 4 9	0 1 9	1 7 0	5 1 9 2	0 1 0	2 6 6	5 2 3 9	0 0 7	3 7 9	2 2 8		
27	9 0 7	0 0 7	0 0 7	5 0 2	0 2 2	5 0 2	0 8 0	5 1 2 3	0 1 7	1 2 3	5 1 5 4	0 1 3	1 6 8	5 1 9 5	0 1 0	2 6 6	5 2 3 9	0 0 7	5 0 8	1 8 3	0 1 5	
28	9 0 0	0 0 2	0 0 2	5 1 6	0 6 7	5 0 8 5	0 2 3	1 1 1	5 1 2 1	0 1 0	1 2 3	5 1 5 2	0 1 9	1 2 5 8	5 1 4 8	0 0 7	2 6 8	5 1 6 2	0 0 8	3 6 8	2 5 9	0 0 5
29	9 0 9	0 0 1	0 0 1	5 0 3	0 3 5	5 2 5	0 5 9	5 0 4 8	0 2 6	1 0 4	5 0 7 4	0 1 7	1 5 1	5 1 0 0	0 1 1	2 5 4	5 1 6 2	0 0 8	3 6 8	2 5 9	0 0 5	
30	9 0 9	0 0 2	0 0 2	5 0 0	0 2 5	5 0 0	0 8 2	5 1 1 0	0 1 8	1 2 6	5 1 5 4	0 1 4	1 7 1	5 1 5 5	0 1 3	2 7 1	5 2 1 2	0 0 4	3 8 3	2 7 6		
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 2 8	2 0 9	0 6	6 8 9	3 2 0	0 3	R 8 6	4 7 1		R 4 4	4 6 2	1 1 4	4 7 0	3 0 3	4 7 7	5 6 7	5 4 1	7 0 9	5 6 5	8 8 9	5 9 8	
02	5 0 4	3 6 1	0 4	6 5 5	4 7 0		R 8 4	4 6 3		R 4 4	4 6 2	1 1 4	4 7 0	3 0 3	4 7 7	5 6 7	5 4 2	7 0 9	5 6 5	8 8 9	5 9 8	
03	5 0 5	3 6 4		6 5 5	4 7 3		R 8 3	4 5 3		R 4 3	5 0 4	1 1 0	4 6 6	2 9 8	5 1 0	5 6 2	5 3 9					
04	5 0 5	3 7 0		6 5 1	5 0 1		R 8 3	4 5 4		R 5 0	5 7 0	0 9 1	5 4 3	2 7 7	5 3 1	5 3 8	5 4 9	6 8 0	5 5 3			
05	5 0 5	2 8 5	0 7	6 6 2	3 9 2	0 3	R 9 5	5 5 3		R 6 2	5 5 2	1 0 6	5 9 8	2 8 6	6 0 0							
06	4 8 3	4 4 6		6 2 9	5 6 5		R 1 0	5 5 2		R 6 0	5 5 2	0 6 5	5 5 9	2 4 6	5 7 9							
07	5 0 1	3 5 5		6 5 4	4 4 3		R 4 0	5 9 8		R 6 1	5 9 8	0 9 3	5 5 8									
08	5 1 7	2 4 1		6 7 4	3 7 1	0 2	R 6 9	5 1 0		R 6 2	5 1 0	1 2 5	5 9 6	3 0 5	5 9 7	5 5 9	6 0 5	6 9 8	6 0 9	8 7 6	6 0 1	
09	5 1 5	2 7 3		6 7 0	3 7 9	0 3	R 6 2	5 3 5		R 6 3	5 3 8	1 0 1	4 8 6	2 8 9	4 9 9	5 5 3	5 2 6	6 9 6	5 5 9	8 7 8	5 8 7	
10	4 9 9	3 7 9	0 3	6 5 0	4 7 6		R 3 8	6 1 3		R 3 8	6 1 3	0 9 6	5 2 3	2 8 1	5 3 0	5 4 2	5 6 1	6 8 2	5 9 0			
11	5 0 9	2 5 9	0 9	6 5 6	3 8 6	0 3	R 5 0	4 5 7		R 4 5	5 3 3	1 0 6	5 0 9	2 9 3	5 2 0	5 5 4	5 4 7	6 9 6	5 6 0	9 7 8	5 8 9	
12	5 0 1	3 5 0		6 5 4	4 5 7		R 6 6	5 6 8		R 6 7	5 6 8	1 1 7	5 6 8	3 0 1	5 4 5	5 5 9	5 6 4	6 9 9	5 9 2	8 7 8	6 2 8	
13	5 0 7	3 6 7	0 3	6 5 8	4 9 5		R 6 7	5 6 7		R 6 8	5 6 8	1 1 7	5 6 8	3 0 1	5 4 5	5 5 9	5 6 4	6 9 9	5 9 2	8 7 8	6 2 8	
14	5 2 1	2 8 2	0 8	6 7 7	4 1 4	0 3	R 6 8	5 6 8		R 6 9	5 6 8	1 4 3	6 9 7	3 1 9	6 2 9	5 6 6	6 6 8	7 0 1	6 5 7			
15	4 9 5	3 9 1		6 4 4	5 0 8		R 6 9	5 6 8		R 7 0	5 6 8	1 1 2	6 3 4	2 9 2	5 6 7	5 4 8	5 6 7	6 8 9	5 7 0	8 7 1	5 7 6	
16	4 9 3	4 3 7		6 3 9	5 4 1		R 7 0	5 6 8		R 7 1	5 6 8	1 0 9	5 4 4	2 9 3	5 4 0	5 5 4	5 3 3	6 9 7	5 5 3	8 8 1	5 4 7	
21	5 3 6	2 4 5		6 9 5</td																		

RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF JULY 1949

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	9.7-3	5.00	4.03	2.2	5.2	1	0.62	5.0	7.5	0.25	1.0	5.1	1.2	0.19	1.5	2	5.1	4.9	0.16	2.5	2	/
02	9.7+0	5.01	2.02	2.9	5.2	2	0.60	5.0	5.8	0.26	1.0	5.0	9.4	0.16	1.5	1	5.1	2.3	0.10	2.5	2	5.19
03	9.7+1	5.00	9.02	2.7	5.2	3	0.50	5.0	6.8	0.25	1.0	5.1	0.8	0.20	1.5	1	5.1	4.3	0.16	2.5	0	0.05
04	9.6+9	5.01	8.02	2.7	5.2	5	0.59	5.0	6.9	0.24	1.0	5.1	0.4	0.20	1.4	9	5.1	2.8	0.17	2.5	0	0.05
05	9.7+6	5.04	2.01	2.9	5.1	9	0.64	5.0	9.2	0.18	1.0	5.1	2.0	0.09	1.5	4	5.1	5.4	0.08	2.5	4	2.90
06	9.8+5	5.05	0.02	2.7	5.1	1	0.71	5.1	1.6	0.20	1.1	5.1	1.4	0.16	1.6	0	5.1	7.7	0.13	2.5	9	0.03
07	9.9+5	5.05	4.02	2.6	5.1	5	0.78	5.1	2.7	0.15	1.2	5.1	6.7	0.11	1.6	6	5.2	0.9	0.06	2.6	5	0.02
08	9.8+5	5.06	0.02	2.5	5.1	1	0.71	5.1	1.4	0.18	1.4	5.1	2.5	0.16	1.6	0	5.2	0.9	0.06	2.6	5	3.41
09	0.00	4.04	5.02	2.7	0.1	1	0.82	5.1	1.3	0.18	1.2	5.1	4.8	0.20	1.7	1	5.1	8.6	0.11	2.6	9	0.02
10	9.8+1	0.00	6.0	4.0	5.1	4	0.69	5.0	3.5	0.30	1.1	5.0	5.6	0.41	1.6	2	5.0	8.5	0.26	2.6	4	5.14
11	9.8+9	0.01	2.0	3.4	5.2	5	0.60	5.0	3.6	0.33	1.0	5.0	7.5	0.26	1.5	1	5.1	1.0	0.21	2.5	3	5.18
12	9.8+4	4.02	8.02	2.8	5.1	2	0.71	5.0	9.5	0.20	1.1	5.1	4.0	0.20	1.6	1	5.1	2.2	0.19	2.6	2	5.07
13	0.15	5.05	3.02	2.0	0.1	2	0.94	5.1	2.7	0.16	1.3	5.1	3.1	0.06	1.8	3	5.1	5.6	0.04	2.8	3	3.03
14	0.15	5.01	6.0	2.6	0.1	2	0.94	5.1	0.8	0.19	1.3	5.1	4.1	0.16	1.8	4	5.1	8.4	0.12	2.8	3	2.75
15	0.01	0.01	2.0	3.6	0.0	1	0.85	0.0	0.4	0.44	1.3	5.0	2.2	0.39	1.7	9	5.0	5.6	0.33	2.8	3	3.96
16	0.02	0.00	5.0	3.4	0.0	2	0.85	5.0	6.5	0.27	1.3	5.0	9.0	0.23	1.7	7	5.0	8.9	0.24	2.8	0	0.04
17	0.01	0.01	8.0	2.5	0.0	1	0.84	5.0	8.9	0.21	1.2	5.0	5	0.19	1.7	5	5.1	1.6	0.06	2.7	6	0.02
18	0.16	0.03	3.0	1.1	0.1	3	0.95	5.1	1.6	0.17	1.3	5.1	1.8	0.18	5.5	1	5.2	9	0.14	2.9	1	0.13
19	0.07	0.00	6.0	3.1	0.0	5	0.90	5.0	2.0	0.37	1.3	5.0	1.2	0.41	1.8	4	5.0	4.6	0.34	2.8	8	0.08
20	0.08	0.00	4.0	3.4	0.0	7	0.91	0.0	0.00	0.08	1.3	5.0	2.5	0.13	1.8	4	5.0	5.4	0.20	2.8	7	0.11
21	0.00	0.00	6.0	3.9	0.0	1	0.84	5.0	6.4	0.25	1.2	5.0	9.0	0.22	1.7	5	5.1	2.4	0.20	2.7	5	1.64
22	0.24	0.00	0.0	2.4	0.2	3	1.06	5.0	9.4	0.22	1.5	5.1	0.30	1.9	9	5.0	5.0	0.20	2.7	5	2.96	
23	9.9+9	0.02	2.0	4.5	5.0	0	0.84	5.0	2.5	0.35	1.2	5.0	0.01	0.8	0.5	1	7	8	5.0	5	0.93	
24	9.8+5	0.00	7.0	3.9	5.1	2	0.72	5.0	3.8	0.31	1.1	5.0	6.0	0.29	1.6	5	5.0	8.6	0.23	2.6	7	1.55
25	9.8+2	0.01	3.0	2.3	5.1	4	0.69	5.0	8.1	0.23	1.1	5.1	1.7	0.19	1.6	0	5.1	5.5	0.14	2.6	7	1.53
26	4.7+6	5.02	7.0	2.6	5.1	9	0.64	5.0	9.5	0.21	1.0	5.1	2.6	0.18	1.5	4	5.1	6.0	0.14	2.6	5	3.63
27	9.7+5	5.01	5.0	2.5	5.2	0	0.64	5.0	7.7	0.24	1.0	5.1	1.5	0.19	1.5	4	5.1	5.1	0.14	2.6	4	3.32
28	9.8+3	5.02	2.0	2.6	5.2	5	0.58	5.0	8.3	0.25	1.0	5.1	1.6	0.19	1.4	8	5.1	4.6	0.16	2.6	7	2.00
29	9.9+3	5.03	1.0	2.7	5.0	5	0.77	5.1	0.6	0.17	1.2	5.1	4.6	0.15	1.7	6	5.1	8.0	0.11	2.6	5	0.95
30	9.9+9	0.05	5.0	2.0	5.0	0	0.81	5.1	2.8	0.16	1.2	5.1	7.0	0.11	1.6	5	1	9.5	0.10	2.6	9	2.58

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	4 8 8	4 1 4	0 2	6 3 5	5 2 3		8 1 7	5 7 5	0 7 0	5 9 8	2 4 9	5 8 3	5 0 5	5 7 8	6 4 7	5 7 9		
02	4 9 2	3 7 8		6 4 3	4 5 8		8 3 1	5 4 1	0 8 7	5 7 2	2 6 8	5 7 6	5 2 3	5 8 4	6 6 3	5 9 5		
03	4 9 0	3 7 9		6 4 2	4 5 4		8 2 8	5 5 4	0 8 6	5 5 0	2 6 9	5 5 0						
04	4 8 9	4 0 7		6 3 6	4 8 6		8 2 3	5 7 7	0 7 9	5 5 6	2 6 2	5 6 3	5 1 9	5 8 0	6 5 9	5 8 3	8 3 9	5 8 9
05	4 9 1	4 3 2																
06	4 9 2	4 6 9		6 3 7	5 4 8		8 1 7	6 1 4	0 6 8	6 2 6	2 4 6	6 2 1	4 9 7	6 0 7				
07	4 9 9	3 8 7		6 4 9	4 8 4		8 3 3	5 9 5	0 8 2	6 3 6	2 5 9	6 2 1	5 0 9	6 2 3	6 4 7	6 0 4		
08	4 9 8	3 7 3		6 3 9	5 0 0		8 2 0	5 3 0	0 7 0	6 1 1	2 4 8	6 0 6						
09	5 0 5	4 0 8	0 1	6 5 5	5 2 4		8 3 7	5 6 5	0 9 4	5 7 2	2 7 7	5 6 1	5 3 2	5 8 0				
10	5 1 1	3 2 7	0 3	6 6 3	4 3 2		8 5 4	5 0 6										
11	4 9 4	3 6 7	0 5	6 4 5	4 7 6		8 3 5	5 2 1	0 9 6	4 9 7	2 8 4	4 9 8						
12	5 0 4	3 8 8	0 2	6 5 3	4 9 1		8 3 7	6 0 2	0 8 9	6 0 8								
13	5 2 5	3 7 6		6 7 5	4 8 9		8 5 9	5 8 9	1 1 3	5 7 9	2 9 4	5 9 5	5 4 7	6 2 0				
14	5 2 6	3 2 9		6 7 8	4 4 6		8 6 4	6 0 5	1 1 4	5 7 3	2 9 6	5 8 5	5 5 0	6 0 5				
15	5 3 8	2 2 8	0 6	6 9 7	3 6 8	0 3	8 8 7	5 2 7	1 3 9	7 1 8	3 1 2	6 2 7	5 6 3	6 1 3	7 0 0	5 6 3		
16	5 3 3	2 4 5	1 0	6 9 2	3 6 3	0 4	8 8 5	5 1 1										
17	5 2 5	2 4 9	1 0	6 8 4	3 6 7	0 4	8 7 6	5 3 0	1 2 6	6 5 7								
18	5 3 1	3 1 2		6 8 7	4 0 4	0 3	8 7 6	5 6 2	1 2 7	6 4 8	3 0 3	6 3 4	5 5 2	6 4 5	6 8 8	6 5 0	8 6 4	6 3 1
19	5 4 2	2 3 2	0 5	7 0 2	3 5 3		8 9 5	5 2 6	1 4 6	6 8 8	3 2 1	6 1 1	5 7 2	6 1 8	7 1 0	6 0 5	8 9 3	6 3 7
20	5 4 0	2 3 5	1 0	6 9 8	3 6 9	0 4	8 9 0	5 3 8	1 3 8	7 2 5	3 1 4	6 1 0	5 6 4	6 4 0	7 0 2	6 2 0		
21	5 1 6	3 6 9	0 3															
22	5 5 5	2 6 6		7 1 2	3 7 6		9 0 4	5 3 2	1 5 3	7 0 3	3 2 6	6 4 2	5 7 3	6 6 5	7 0 8	6 4 5	8 8 3	6 4 5
23	5 3 7	2 4 1	0 6	6 9 5	3 7 5	0 2	8 8 6	5 2 1										
24	5 1 7	2 7 5	0 8	5 7 2	4 0 1	0 4	8 6 1	5 6 7	1 1 3	5 8 0								
25	4 9 5	4 5 1		6 4 4	4 7 2		8 3 1	5 2 0	0 9 2	5 7 3	2 7 8	5 3 0	5 3 5	5 9 7	6 7 4	6 0 2	8 5 2	6 1 1
26	4 9 0	3 8 6	0 3															
27	4 9 5	3 5 5	0 4	6 4 8	4 3 0		8 3 6	5 4 2	0 9 3	5 6 0	2 7 6	5 6 1	5 3 1	5 9 0				
28	4 8 6	3 7 0	0 4	6 3 7	4 6 8		8 2 4	5 4 2										
29	5 0 8	3 4 5		6 6 0	4 5 6		8 4 5	6 0 1	0 9 1	6 4 0	2 6 8	6 1 0	5 1 9	6 3 1	6 5 7	6 1 0		

**RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF AUGUST 1949**

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

**RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF SEPTEMBER 1949**

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

**RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF OCTOBER 1949**

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									
01	0 0 4	0 0 1	0 0 3 4	0 0 4	0 8 7	5 0 5 0	0 2 7	1 3 2	5 0 8 2	0 2 3	1 7 9	5 1 2 5	0 1 2	2 8 2	5 0 5 6	0 2 1	4 0 1	1 2 4	0 1 4			
02	9 9 4	0 0 0	6 0 5 5	5 0 4	0 7 9	5 0 6 1	0 2 2	1 2 3	5 1 1 6	0 1 7	1 6 4	5 1 2 1	0 1 7	2 7 1	5 1 4 5	0 0 4	3 8 7	1 9 5				
03	0 0 8	0 0 1	2 0 2 5	5 0 4	0 9 1	5 0 6 1	0 2 5	1 3 6	5 0 8 6	0 2 1	1 8 2	5 1 0 8	0 1 9	2 8 4	5 1 4 0	0 1 1	3 9 9	2 1 0	0 0 3			
04	9 4 3	0 0 1	5 0 2 5	5 0 5	0 7 8	5 0 9 0	0 1 6	1 2 1	5 1 3 2	0 1 4	1 6 8	5 1 2 4	0 0 5	2 6 9	5 1 7 6	0 0 4	3 8 2	2 5 2	0 0 3			
05	0 0 9	0 0 1	1 0 3 7	0 0 7	0 9 0	5 0 6 3	0 2 5	1 3 7	5 0 8 0	0 2 3	1 8 2	5 0 5 3	0 5 5	2 8 7	5 0 7 2	0 2 8	4 0 5	1 5 2	0 1 8			
06	9 9 7	0 0 1	7 0 4 1	5 0 2	0 9 2	5 0 6 7	0 2 6	1 2 6	5 0 8 5	0 2 3	1 7 3	5 0 8 7	0 2 5	2 7 5	5 0 9 9	0 2 2	3 9 3	1 8 0	0 0 7			
07	0 1 0	5 0 1	2 0 2 8	0 0 4	0 9 1	5 0 9 5	0 1 9	1 3 5	5 0 9 6	0 1 8	1 8 2	5 1 2 0	0 0 9	2 8 5	5 1 6 7	0 0 4	3 9 7	2 4 8				
08	0 1 1	0 0 0	1 0 3 4	0 0 9	0 9 1	5 0 4 1	0 1 9	1 3 7	5 0 5 2	0 0 9	1 8 4	5 0 4 5	0 1 7	2 8 8	5 0 7 1	0 1 5	4 0 6	1 3 1	0 1 8			
09	9 6 4	5 0 1	8 0 3 1	5 2 9	0 5 5	5 0 6 8	0 2 3	9 9 0	5 1 0 4	0 1 7	1 4 5	5 1 4 1	0 1 2	2 4 5	5 2 1 9	0 0 5	3 5 7	2 8 8	0 0 5			
10	9 9 5	5 0 4 5	0 1 1 3	5 0 5	0 7 7	5 1 2 3	0 1 0	1 2 0	5 1 6 3	0 0 4	1 6 5	5 2 0 7	0 0 7	2 6 3	5 2 8 1	0 0 4	3 7 3	2 8 1				
11	9 9 9	5 0 0 5	0 3 4	5 0 5	0 7 7	5 1 2 3	0 1 0	1 2 0	5 1 1 1	0 1 4	1 7 3	5 1 2 4	0 1 8	2 7 5	5 1 4 0	0 1 7	3 9 1	1 5 6	0 1 6			
12	9 4 9	5 0 0 5	0 3 4	5 0 5	0 8 2	5 0 7 9	0 2 5	1 2 7	5 1 1 1	0 1 4	1 7 3	5 1 2 5	0 1 1	2 7 4	5 1 8 5	0 0 5	3 8 7	2 5 0				
13	9 4 4	5 0 0 1	1 0 2 2	5 0 0	0 8 5	5 0 8 3	0 1 8	1 1 7	5 1 1 9	0 1 2	1 7 3	5 1 2 5	0 1 1	2 7 4	5 1 8 4	0 0 3	3 9 0	2 3 5				
14	0 0 1	0 0 0 6	3 1 1	0 0 1	0 0 5	5 0 6 9	0 2 0	1 2 9	5 0 9 6	0 1 3	1 7 6	5 1 4 1	0 1 1	2 7 6	5 1 8 4	0 0 5	3 9 9	1 8 5	0 0 6			
15	0 1 0	0 0 0 4	2 0 2 5	0 0 9	0 9 1	5 0 9 0	0 1 7	1 3 5	5 1 1 4	0 1 0	1 8 2	5 1 3 5	0 0 5	2 8 3	5 1 5 5	0 0 5	3 9 4	1 7 3				
16	0 1 3	5 0 0 4	0 2 0 8	0 1 1	0 0 9	5 1 0 5	0 1 5	1 3 7	5 1 3 3	0 1 2	1 8 3	5 1 1 2	0 1 0	2 8 5	5 1 1 0	0 1 0	4 0 2	1 8 8	0 0 5			
17	0 1 1	0 0 1 0	3 0 3 0	0 0 9	0 9 2	5 0 9 5	0 1 5	1 3 6	5 1 3 1	0 1 2	1 8 2	5 0 9 6	0 2 0	2 8 5	5 1 1 1	0 0 9	4 0 2	1 8 6	0 0 4			
18	0 1 2	0 0 1 2	0 3 7	0 1 0	0 9 4	5 0 5 7	0 1 7	1 3 8	5 0 2 4	0 1 0	1 8 6	5 0 2 6	0 1 0	2 9 1	5 0 8 0	0 0 8	4 1 0	1 2 4				
19	9 9 1	5 0 0 5	0 3 5	5 0 7	0 7 7	5 0 7 3	0 2 0	1 2 1	5 0 9 6	0 1 4	1 6 7	5 1 2 5	0 1 0	2 6 7	5 2 0 6	0 0 8	3 7 9	2 9 6	0 0 3			
20	9 7 7	5 0 0 0	0 3 1	5 0 8	0 7 5	5 0 8 8	0 1 9	1 1 9	5 1 2 0	0 1 7	1 6 5	5 1 4 9	0 1 3	2 6 5	5 2 0 5	0 0 4	3 7 8	2 3 5	0 0 3			
21	9 7 7	5 0 0 8	0 3 9	5 1 8	0 6 6	5 0 4 4	0 2 8	1 1 0	5 0 5 5	0 2 6	1 5 8	5 0 5 5	0 1 6	2 6 2	5 1 1 9	0 0 6	3 7 0	1 9 3	0 0 5			
22	9 9 5	5 0 0 6	0 2 8	5 0 5	0 7 9	5 0 5 7	0 1 4	1 2 5	5 0 4 1	0 1 0	1 7 2	5 0 3 4	0 0 8	2 7 7	5 0 9 3	0 0 7	3 9 4	1 7 3				
23	0 0 0	5 0 0 6	0 3 0	0 0 1	0 0 8	5 0 2 4	0 2 7	1 2 9	5 0 4 4	0 2 4	1 7 7	5 0 6 9	0 2 0	2 8 1	5 0 8 6	0 1 1	3 9 9	1 4 0	0 0 1			
24	9 8 1	5 0 1 4	0 4 1 1	5 1 2	0 4 4	5 0 5 7	0 2 2	1 1 3	5 0 9 3	0 1 3	1 6 0	5 1 3 1	0 1 5	2 6 0	5 0 8 5	0 1 3	3 9 1	1 4 0				
25	9 8 5	5 0 1 2	0 2 0 8	5 1 2	0 4 4	5 0 4 6	0 2 4	1 0 9	5 0 8 5	0 1 8	1 5 6	5 1 2 0	0 1 4	2 5 6	5 1 9 9	0 0 8	3 8 9	2 7 4	0 0 2			
26	9 9 6	5 0 0 8	0 2 5	5 0 3	0 8 0	5 0 9 5	0 1 5	1 2 3	5 1 3 2	0 1 3	1 7 0	5 1 7 2	0 1 1	2 5 2	5 2 2 0	0 0 5	3 6 3	3 1 2	0 0 2			
27	9 8 7	0 0 2 3	0 4 1	5 1 0	0 7 5	5 0 2 4	0 3 3	1 2 0	5 0 4 9	0 3 0	1 6 7	5 0 8 4	0 2 4	2 7 1	5 1 0 2	0 2 3	3 8 3	2 4 2				
28	9 8 9	5 0 2 4	0 7 5	5 1 0	0 7 5	5 0 2 4	0 3 3	1 2 0	5 0 4 9	0 3 0	1 6 7	5 0 8 4	0 2 4	2 7 1	5 1 0 2	0 2 3	3 8 9	1 5 5	0 1 7			

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															
01	5 3 7	2 4 0	0 9	6 7 3	4 3 9	0 2	8 6 3	4 9 9	1 3 0	4 5 8	3 2 1	4 7 4	5 8 8	4 7 4	7 3 6	4 5 0								
02	5 1 4	3 0 4		6 7 3	4 3 9	0 2	8 8 0	5 5 3	1 3 8	5 2 2	3 2 5	4 9 0	5 4 7	4 2 7	7 4 7	4 0 9								
03	5 3 2	2 7 6	0 4	6 8 9	3 8 1	0 2	8 8 0	5 5 3	1 3 8	5 2 2	3 2 5	4 9 0	5 4 9	4 1 7	7 4 8	4 0 9								
04	5 1 2	3 6 1	0 1	6 6 5	4 9 1	0 3	8 4 7	5 4 9	1 0 7	5 1 5	2 9 5	4 8 6	5 6 6	4 1 7										
05	5 4 1	2 4 7	0 7	7 0 3	3 5 4	0 3	8 9 6	4 6 3																
06	5 6 5	2 7	2 7 1	0 4	6 8 5	3 6 5	8 7 8	4 8 3																
07	9 2 7	3 5 8		6 7 5	4 3 3		8 7 0	4 8 9																
08	9 5 4	1 9 0	1 4	7 0 7	2 9 0	0 7	9 0 7	4 4 5	1 4 0	4 5 0	3 3 1	4 6 1	6 0 3	4 1 4	7 5 5	4 1 7								
09	4 8 5	3 8 6		6 3 4	4 4 4		8 2 8	4 1 4																
10	5 3 5	2 4 2	0 9	5 5 4	4 6 8	0 3 3	8 4 2	5 0 1	0 7 5	4 9 5	2 9 9	3 8 2	5 7 7	3 8 7										
11	5 0 3	3 5 5		5 5 4	3 5 9	0 3 3	8 8 0	5 0 7	1 3 1	6 8 1	3 1 1	5 5 2	5 7 3	4 6 5	7 2 4	4 0 3								
12	5 2 7	2 4 2	0 9	5 6 4	3 5 9	0 3 3	8 6 5	4 3 5	1 2 9	4 8 9	3 1 7	5 0 7	5 8 1	5 0 5	7 2 7	4 7 6								
13	5 1 8	3 1 7		5 7 2	4 1 4		8 7 0	5 3 0	1 3 2	5 1 0	3 2 0	5 1 0	5 8 5	4 8 4										
14	5 2 2	2 9 7	0 4	5 7 8	3 7 9		8 8 0	5 3 1	1 3 8	5 3 3	3 2 4	5 0 5	5 8 9	4 7 4	7 3 7	4 7 0								
15	5 3 2	2 7 6		5 8 9	3 9 5		8 8 2	5 4 1	1 4 0	5 2 0	3 2 7	4 9 9	5 9 3	4 6 4	7 4 2	4 4 8								
16	5 9 3	2 8 5	0 2	6 9 2	4 0 8		8 8 3	5 3 1	1 4 2	5 4 3	3 2 8	4 9 7	5 9 6	4 4 5	7 4 5	4 3 3								
17	5 3 6	2 7 4		6 9 2	4 0 2		8 8 1	5 1 0	1 4 1	5 3 3	3 2 6	5 1 1	5 9 4	4 4 7	7 4 5	4 1 1								
18	5 4 7	2 2 2		6 8 7	3 4 5		8 8 1	5 1 0	1 4 1	5 3 3</td														

RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF NOVEMBER 1949

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										
01	9 9 3	5 0 0	2 0 2	9	5 0 5	0 7 8	5 0 6 6	0 2 2	1 2 2	5 1 0 6	0 1 8	1 6 9	5 0 9 3	0 1 2	2 7 2	5 1 3 6	3 8 8	1 6 9	0 0 4				
02	9 9 5	5 0 2	2 0 2	8	5 0 8	0 7 4	5 1 1 1	1 1 6	1 1 8	5 1 3 8	0 1 3	1 6 3	5 1 6 9	0 1 0	2 6 3	5 1 9 4	0 0 7	3 7 6	2 4 5	0 0 4			
03	9 9 7	0 0 1	3 0 3	6	5 0 2	0 8 1	5 0 6 3	0 2 3	1 2 6	5 0 9 4	0 2 0	1 7 3	5 1 2 0	0 1 8	2 7 5	5 1 0 4	3 9 2	1 6 2					
04	9 9 7	0 0 1	1 0 3	9	5 0 2	0 8 2	5 0 3 9	0 2 8	1 2 8	5 0 3 1	0 3 1	1 7 5	5 0 5 9	0 2 7	2 7 9	5 0 7 5	0 2 8	3 9 8	1 3 4	0 1 8			
05	9 9 6	0 0 0	4 0 3	9	5 2 9	0 5 5	5 0 5 8	0 2 5	1 0 0	5 0 8 6	0 2 2	1 4 6	5 1 1 8	0 1 8	2 4 7	5 1 8 9	0 1 0	3 6 2	2 2 4	0 0 8			
07	9 9 2	0 0 2	2 0 4	2	5 0 5	0 7 8	5 0 2 4	0 3 5	1 2 3	5 0 4 0	0 3 3	1 7 1	5 0 0 5	0 5 2	2 7 5	5 1 0 0	0 2 4	3 9 3	1 5 7				
08	9 9 8	0 0 1	0 0 3	4	5 0 1	0 8 6	5 0 7 3	0 2 2	1 2 7	5 1 0 9	0 1 9	1 7 3	5 1 0 4	0 1 3	2 7 5	5 1 5 8	0 0 4	3 9 0	2 0 8				
09	9 9 8	0 0 3	2 0 4	4	5 0 8	0 7 6	5 0 2 5	0 3 5	1 2 1	5 0 2 9	0 3 6	1 7 0	5 0 5 7	0 5 7	2 7 5	5 0 6 6	0 3 1	3 9 4	1 2 0	0 2 0			
10	9 9 5	0 0 5	3 0 4	4	5 1 2	0 7 5	5 0 2 3	0 3 3	1 1 8	5 0 3 7	0 3 2	1 6 6	5 0 4 2	0 3 3	2 7 1	5 0 4 5	0 3 7	3 8 7	1 0 7	0 2 2			
11	9 9 4	0 0 1	4 0 2	5	5 0 0	0 8 5	5 0 8 0	0 1 5	1 2 7	5 1 0 8	0 1 5	1 7 3	5 0 9 2	0 1 6	2 7 6	5 1 0 9	0 3 4	3 9 4	1 5 0				
12	0 0 0	0 0 0	2 0 2	7	5 0 0	0 8 5	5 0 8 1	0 1 6	1 2 7	5 0 6 4	0 1 0	1 7 6	5 0 6 0	0 1 7	2 7 9	5 1 0 6	0 3 9	3 9 6	1 6 9				
13	0 0 1	5 0 0	7 0 3	6	0 0 1	0 8 4	5 0 6 6	0 2 2	1 2 8	5 0 6 5	0 2 4	1 7 6	5 0 7 4	0 2 4	2 8 1	5 0 9 6	0 2 3	3 9 9	1 4 8				
14	9 6 5	5 0 1	0 3 6	5 2 9	0 5 4	3 2 8	5 0 3 8	0 3 0	0 9 9	5 0 6 0	0 2 6	1 4 6	5 0 9 1	0 2 1	2 4 9	5 1 2 3	0 1 9	3 6 6	1 7 6	0 1 2			
15	9 7 4	0 0 1	6 0 3	4	5 2 1	0 6 3	5 0 4 9	0 2 5	1 0 8	5 0 8 3	0 1 9	1 5 5	5 1 1 3	0 1 6	2 5 6	5 1 8 7	0 1 0	3 6 9	2 7 3	0 0 5			
16	9 8 9	0 0 0	1 0 3	5 1	5 0 0	0 7 5	5 0 7 7	0 1 8	1 2 8	5 1 1 6	0 1 4	1 6 5	5 1 5 0	0 1 2	2 6 6	5 1 4 7	0 1 6	3 8 1	2 1 9				
17	9 4 7	0 0 1	5 0 4	2	5 4 3	0 4 1	5 0 1 4	0 3 7	1 8 8	5 0 3 2	0 3 0	1 3 5	5 0 4 6	0 2 2	2 3 9	5 1 0 1	0 1 3	3 5 5	1 8 5	0 0 5			
18	9 5 8	5 0 2	0 4 0	5 3 4	0 4 9	5 0 8 9	0 2 0	0 9 3	5 1 1 9	0 1 7	1 3 9	5 1 4 5	0 1 4	2 4 0	5 1 8 8	0 1 0	3 5 4	2 5 0	0 0 6				
19	9 7 5	5 0 0	7 0 3	5 1	5 2 0	0 6 4	5 0 6 0	0 2 5	1 0 8	5 0 9 7	0 1 9	1 5 4	5 1 2 7	0 1 6	2 5 5	5 1 6 9	0 1 2	3 7 0	2 3 7	0 0 8			
20	9 9 0	0 0 1	1 0 3	2	5 0 7	0 7 6	5 0 6 9	0 2 0	1 2 0	5 1 0 1	0 1 8	1 6 7	5 0 8 6	0 1 9	2 7 0	5 1 1 7	0 1 0	3 8 7	1 6 1	0 0 4			
21	9 9 7	0 0 1	5 0 3	8	5 0 2	0 8 2	5 0 5 0	0 2 6	1 2 7	5 0 3 5	0 3 0	1 7 5	5 0 3 9	0 5 1	2 8 0	5 0 9 4	0 2 2	3 9 7	1 5 7	0 1 5			
22	9 8 4	0 0 1	7 0 3	3	5 1 3	0 7 2	5 0 5 4	0 2 3	1 1 8	5 0 4 7	0 0 8	1 6 4	5 0 7 2	0 2 7	2 6 7	5 1 4 0	0 2 0	3 8 3	1 9 7	0 0 7			
23	9 6 7	0 0 0	4 0 3	6	5 2 6	0 5 7	5 0 4 8	0 2 7	1 0 2	5 0 8 9	0 1 9	1 4 9	5 1 2 3	0 1 6	2 4 9	5 1 8 9	0 1 0	3 6 3	2 4 6	0 0 6			
24	9 7 7	5 0 0	5 0 3	7	5 1 8	0 6 6	5 0 5 3	0 2 7	1 1 0	5 0 8 7	0 2 1	1 5 7	5 1 0 3	0 2 0	2 6 0	5 1 1 4	0 2 0	3 7 7	1 7 1	0 1 3			
25	9 8 7	0 0 1	7 0 3	7	5 1 0	0 7 4	5 0 4 1	0 3 0	1 1 9	5 0 7 0	0 2 6	1 6 6	5 1 0 2	0 2 1	2 6 7	5 1 7 4	0 1 1	3 8 2	1 7 9	0 0 4			
26	9 8 5	0 0 1	7 0 3	7	5 1 2	0 7 2	5 0 5 0	0 2 4	1 1 7	5 0 7 6	0 1 5	1 6 4	5 0 9 5	0 1 1	2 6 7	5 1 0 4	0 1 3	2 6 7	1 3 6	0 1 8			
27	9 7 3	5 0 0	4 0 3	7	5 2 1	0 6 2	5 0 7 4	0 2 0	1 0 5	5 1 0 4	0 1 9	1 5 3	5 1 2 5	0 1 7	2 5 4	5 1 6 2	0 1 2	3 6 9	1 9 9	0 0 8			
28	9 8 8	0 0 1	2 0 3	4	5 0 9	0 7 5	5 0 5 9	0 2 4	1 1 9	5 0 9 0	0 1 9	1 6 6	5 1 2 0	0 1 8	2 6 7	5 1 7 0	0 1 1	3 8 1	2 2 7	0 0 7			
29	9 9 4	0 0 1	3 0 3	6	5 0 4	0 7 9	5 0 6 3	0 2 2	1 2 3	5 0 9 6	0 1 9	1 7 0	5 1 2 9	0 1 6	2 7 1	5 2 0 1	0 0 7	3 8 3	2 9 5	0 0 3			
30	0 1 2	0 0 1	0 0 2	9	0 1 0	0 9 3	5 0 7 2	0 2 1	1 3 7	5 1 1 1	0 1 7	1 8 4	5 1 2 9	0 1 4	2 8 5	5 1 4 9	0 0 7	4 0 0	2 0 6	0 0 7			

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 3	2 3 6	0 6	6 8 3	3 3 9	0 5	8 7 9	4 9 8	1 3 7	5 4 6	3 2 2	5 1 0	5 8 9	4 4 1	7 3 9	3 9 2	9 3 7	3 4 0						
03	5 2 7	2 6 0		6 8 5	3 6 7		R 8 1	4 5 5	1 4 5	5 2 0	3 3 3	4 8 6	6 0 0	4 4 6	7 4 9	4 5 5								
04	5 3 5	2 1 1	1 0	6 9 4	3 2 8	0 4	R 9 0	5 1 4	1 5 5	4 5 0	3 4 7	4 6 5	6 1 7	4 3 0	7 6 8	4 5 5								
05	4 9 5	3 0 6	4	6 5 0	3 5 8	0 2	R 4 8	3 9 6	1 2 5	4 3 5	3 1 9	4 1 3	5 9 1	4 2 6										
07	5 2 8	2 5 8		6 8 5	3 8 5		R 7 8	4 8 7	1 4 1	4 9 7	3 3 0	4 7 0	6 0 2	4 1 4										
08	5 2 3	2 7 0	0 4	6 7 9	3 9 4	0 1	R 7 0	5 2 5																
09	5 3 1	2 1 5	1 0	6 9 3	3 1 9	0 4	R 9 0	4 6 6	1 4 7	5 6 9	3 3 0	5 3 1	5 9 4	4 8 5										
10	5 2 4	2 0 2	1 0	5 8 7	3 0 3	0 4	R 8 5	4 6 3																
11	5 3 0	2 1 7	0 9	6 9 1	3 1 8	0 5	R 8 8	4 7 3	1 5 1	4 9 2	3 4 0	4 9 2	6 0 5	4 7 8	7 5 3	4 5 3								
12	5 3 0	2 4 5	0 6	6 9 0	3 4 5	0 2	R 8 3	5 1 5	1 5 1	4 4 6	3 4 2	4 6 2	6 1 2	4 3 8	7 6 2	4 7 0	9 5 5	4 2 0						
15	5 3 4	2 4 3		6 9 3	3 5 4		R 8 8	4 8 0	1 5 3	4 8 8	3 4 3	4 8 1	6 1 1	4 6 1	7 6 1	4 3 6								
14	5 0 0	2 8 8	0 5	6 5 7	3 6 7	0 2	R 5 0	5 0 1	1 1 6	4 6 2	3 0 6	4 6 5	5 7 6	4 4 9	7 2 5	4 3 2								
15	4 9 7	5 7 1	0 2	6 4 8	4 8 0		R 3 4	5 4 6	0 9 5	4 9 0	2 8 5	4 5 0												
16	5 1 5	2 9 5		6 6 9	4 1 8		R 5 8	5 3 9	1 1 6	5 3 6	3 0 3	4 9 0	5 7 0	4 6 4	7 1 9	4 3 4								
17	4 8 9	2 3 8	0 8	6 4 9	3 5 4	0 2	R 8 4	5 1 0	1 0 6	4 8 1	2 9 7	4 6 1	5 6 6</td											

**RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND
FOR THE MONTH OF DECEMBER 1949**

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									
01	0 0 0	0 0 1	0 0 3 4	0 0 1	0 8 4	5 0 5 0	0 2 7	1 2 9	5 0 2 5	0 3 5	1 7 7	5 0 2 5	0 3 6	2 4 3	5 0 4 4	0 3 4	4 0 3	1 0 6	0 2 2			
02	4 5 5	0 0 6	0 0 3 5	5 1 6	0 6 9	5 0 3 0		1 1 4	5 0 6 1		1 6 1	5 0 8 9		2 6 3	5 1 3 5		3 8 0	1 6 0				
03	9 8 5	0 0 2	0 0 3 3	5 1 2	0 7 2	5 0 5 8	0 2 1	1 1 7	5 0 3 5	0 2 7	1 6 5	5 0 1 5	0 1 2	2 7 1	5 0 5 3	0 0 9	3 9 0	1 3 1	0 1 2			
04	9 8 5	0 0 0	0 0 3 7	5 2 7	0 5 7	5 0 6 3	0 2 3	1 0 1	5 0 9 3	0 2 0	1 4 8	5 1 2 2	0 1 8	2 4 9	5 1 8 5	0 1 1	3 6 3	2 1 1	0 1 0			
05	9 8 5	0 0 0	0 0 3 1	5 1 5	0 6 9	5 0 5 6	0 2 0	1 1 3	5 0 9 6	0 1 5	1 6 0	5 1 3 7	0 1 3	2 6 1	5 1 6 5	0 0 5	3 7 7	1 6 7				
06	9 8 5	0 0 0	0 0 3 5	5 1 2	0 7 2	5 0 7 1	0 2 0	1 1 7	5 1 1 6	0 1 6	1 6 3	5 0 8 1		2 6 6	5 1 2 0	0 1 0	3 8 3	1 7 7	0 0 8			
07	9 9 5	0 0 2	0 0 3 7	5 0 3	0 8 0	5 0 6 5	0 2 3	1 2 5	5 1 0 0	0 1 9	1 7 1	5 1 2 3	0 1 7	2 7 1	5 1 9 5	0 1 0	3 8 5	2 2 9	0 0 5			
08	0 0 1	0 0 1	0 0 3 7	5 0 3	0 8 5	5 0 5 9	0 2 1	1 2 9	5 0 8 7	0 2 0	1 7 6	5 1 0 1	0 1 8	2 8 2	5 0 6 5	0 1 2	4 0 0	1 4 5	0 0 8			
09	9 8 5	0 0 3	0 0 3 5	5 0 1	0 8 5	5 0 5 5	0 2 3	1 2 9	5 0 8 7	0 2 0	1 7 6	5 0 2 0	0 1 9	2 8 2	5 0 7 9	0 2 1	3 9 3	1 4 4	0 1 6			
10	9 8 4	0 0 5	0 0 4 4	5 0 8	0 7 7	5 0 9 0	0 2 0	1 2 2	5 0 2 6	0 2 5	1 7 0	5 0 3 7	0 3 1	2 7 5	5 1 2 0							
11	9 8 1	0 0 3	0 0 4 4	5 1 4	0 7 0	5 0 1 5	0 2 3	1 2 9	5 0 3 1	0 3 3	1 6 3	5 0 4 6	0 3 1	2 6 8	5 0 9 1	0 2 3	3 8 6	1 7 0	0 1 5			
12	9 9 1	0 0 2	0 0 4 0	5 0 7	0 7 7	5 0 4 5	0 2 3	1 2 2	5 0 7 4	0 2 3	1 6 9	5 1 0 6	0 2 0	2 7 2	5 1 1 1	0 0 7	3 8 9	1 7 0	0 0 6			
13	9 8 1	0 0 2	0 0 4 2	5 1 3	0 7 1	5 0 1 7	0 2 3	1 1 7	5 0 4 4	0 3 0	1 6 4	5 0 7 4	0 2 4	2 6 7	5 1 2 4	0 1 4	3 8 4	1 6 4	0 0 6			
14	9 8 4	0 0 1	0 0 4 5	5 0 8	0 7 5	5 0 5 8	0 2 4	1 2 0	5 0 9 2	0 1 9	1 6 6	5 1 1 7	0 1 7	2 6 7	5 1 6 0	0 1 3	3 8 2	2 1 7	0 0 8			
15	9 8 1	0 0 0	0 0 4 1	5 1 3	0 7 7	5 0 3 7	0 2 7	1 2 2	5 0 5 4	0 1 9	1 7 0	5 1 0 7	0 1 6	2 7 1	5 1 8 3	0 1 1	3 8 5	2 3 3	0 0 4			
16	9 9 1	0 0 3	0 0 4 1	5 1 7	0 7 7	5 0 3 0	0 3 2	1 2 2	5 0 5 5	0 2 7	1 7 0	5 0 8 9	0 2 1	2 7 2	5 1 5 2	0 1 5	3 8 6	2 4 5	0 0 7			
17	9 9 1	0 0 3	0 0 4 1	5 0 7	0 7 7	5 0 4 7	0 2 6	1 2 6	5 0 8 5	0 2 7	1 6 9	5 1 1 8	0 1 6	2 7 0	5 1 8 8	0 1 0	3 8 3	2 6 0	0 0 5			
18	9 9 1	0 0 3	0 0 4 1	5 0 7	0 7 7	5 0 4 7	0 2 6	1 2 2	5 0 8 5	0 2 7	1 7 0	5 0 8 9	0 2 1	2 7 2	5 1 5 2	0 1 5	3 8 6	2 1 1	0 0 7			
19	9 8 1	0 0 3	0 0 4 2	5 1 1	0 7 4	5 0 4 6	0 2 2	1 1 9	5 0 8 0	0 1 8	1 6 6	5 1 0 8	0 1 6	2 6 7	5 1 5 4	0 1 2	3 8 3	2 0 0	0 1 0			
20	9 8 1	0 0 3	0 0 3 8	5 0 7	0 7 7	5 0 5 4	0 2 3	1 2 1	5 0 9 3	0 2 1	1 6 8	5 1 2 0	0 1 3	2 6 9	5 1 7 4	0 0 7	3 8 3	1 9 8				
21	9 7 0	0 0 2	0 0 3 7	5 2 4	0 6 0	5 0 4 9	0 2 6	1 0 5	5 0 7 0	0 2 1	1 5 2	5 0 8 7	0 2 0	2 5 4	5 1 4 8	0 1 6	3 6 9	2 1 1	0 0 7			
22	9 9 4	0 0 3	0 0 3 1	5 0 2	0 6 2	5 0 3 8		1 2 7	5 0 7 6		1 7 4	5 0 9 2		2 7 6	5 1 4 4		3 9 1	2 3 3				
23	9 9 4	0 0 3	0 0 3 1	5 0 2	0 6 2	5 0 3 5		1 2 7	5 0 9 4	0 1 5	1 7 4	5 1 0 7	0 0 9	2 7 6	5 1 4 5	0 0 8	3 9 2	2 0 4	0 0 3			
24	9 9 4	0 0 2	0 0 4 5	5 0 5	0 7 7	5 0 3 2	0 3	1 2 1	5 0 3 3	0 3 2	1 6 9	5 0 5 5	0 2 9	2 7 3	5 1 0 7	0 2 2	3 9 0	1 8 6	0 1 0			
25	9 9 5	0 0 2	0 0 3 6	5 0 2	0 6 2	5 0 3 9	0 2 6	1 3 1	5 0 4 3	0 2 7	1 7 4	5 0 9 0	0 2 2	2 8 2	5 0 9 2	0 1 9	4 0 0	1 5 7	0 0 7			
26	9 8 6	0 0 3	0 0 5 0	5 1 1	0 7 4	5 0 1 6	0 3 0	1 2 0	5 0 5 0	0 2 6	1 6 7	5 0 6 3	0 1 8	2 7 0	5 0 9 0	0 1 9	3 8 8	1 5 9	0 1 4			
27	9 8 7	0 0 3	0 0 4 3	5 1 1	0 7 5	5 0 1 9	0 3 4	1 2 0	5 0 5 0	0 3 1	1 6 8	5 0 5 3	0 3 1	2 7 2	5 1 0 4	0 2 4	3 8 9	1 7 8	0 1 8			
28	9 7 5	0 0 2	0 0 4 2	5 2 2	0 6 4	5 0 4 2	0 3 2	1 0 9	5 0 7 5	0 2 6	1 5 6	5 1 0 1	0 2 3	2 5 8	5 1 5 7	0 1 6	3 7 3	1 8 2	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	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW	HHH	TTT	WW			
01	5 4 1	1 9 4	1 2	7 0 3	3 0 5	0 4	9 0 1	4 6 9	1 5 8	5 8 3	3 4 2	5 0 6	6 0 9	4 5 6	7 5 9	4 4 9								
02	5 1 5	2 5 8	6 7 2	3 8 4	3 4 6	0 3	A 6 5	4 9 9	1 5 0	4 4 5	3 2 2	4 3 7	5 9 4	4 2 4										
03	5 2 7	2 2 0	0 7	5 8 7	3 4 6	0 3	R 6 1	5 1 5	1 3 7	5 5 0	3 2 4	4 7 0	5 4 5	4 2 1	7 4 7	4 2 6								
04	4 9 5	3 0 8	0 4	5 4 9	4 3 6		R 4 0	4 6 4	1 1 2	4 2 0	3 0 6	4 2 9	5 7 9	4 1 2	7 3 0	4 1 7	9 2 5	4 1 2						
05	5 1 1	2 7 1		6 6 6	3 8 9																			
06	5 1 5	2 8 9	0 4	6 7 2	4 2 1		B 6 0	5 6 0	1 2 1	4 9 9	3 1 1	4 5 6	5 8 2	4 4 7	7 3 0	4 6 9								
07	5 1 7	3 0 5		6 7 5	3 9 0																			
08	5 3 1	2 6 1	0 3	6 8 6	3 9 0	0 1	R 8 0	5 3 9	1 3 5	5 2 3	3 2 3	5 0 5	5 0 5	4 5 5										
09	5 3 7	2 1 9	0 5	6 9 7	3 5 1	0 2	A 9 0	5 1 5	1 4 5	5 6 3	3 5 0	5 0 2	5 0 8	4 5 6	7 4 8	4 1 1								
10	5 3 0	2 1 5	1 0	6 9 1	3 3 6	0 4	B 8 6	5 0 1	1 4 2	5 3 8	3 3 0	4 7 0	6 0 1	4 2 4	7 5 1	4 2 5	9 4 7	3 9 0						
11	5 1 4	2 7 6	0 6	6 7 5	3 6 7	0 2	P 6 5	5 4 8	1 3 3	4 3 4	3 2 7	4 1 5	5 0 3	4 4 6	7 5 3	4 1 6								
12	5 2 5	2 6 9		6 8 0	3 9 6		R 7 1	5 1 9	1 3 8	4 5 4	3 3 0	4 5 4	6 0 3	4 4 6										
13	5 1 4	2 7 1		6 7 5	3 9 1		R 6 8	4 3 6	1 4 4	4 0 0														
14	5 1 4	3 0 9	0 4	6 6 8	4 3 6		R 5 7	5 1 5	1 2 8	4 1 4	3 2 4	3 9 9	6 0 1	3 8 9										
15	5 2 9	2 3 9	0 5	6 8 7	3 6 6		R 7 9	5 2 9	1 5 1	4 1 4	3 2 6	4 0 9	6 0 3	3 7 8	7 5 0	4 2 8								
16	5 1 7	2 8 8		6 7 3	4 0 6		R 6 5	4 8 0	1 3 5	4 3 4	3 2 9	4 0 4	6 0 5	4 1 8	7 5 6	4 1 2	9 5 1	4 1 4						
17	5 1 7	3 2 4	0 3	6 7 4	4 5 7		R 7 2	5 1 8	1 4 0	4 4 6	3 5 3	4 3 3	6 0 7	4 0 7										
18	5 1 3	3 4 4	0 2	6 6 6	4 3 4		R 5 5	5 1 7	1 2 2	4 2 7	3 1 6	4 1 8	5 4 3	3 7 9	7 4									

RESULTS OF RADIOSONDE OBSERVATIONS AT HEARD ISLAND 1949
TROPOPAUSE

JANUARY					FEBRUARY					MARCH					APRIL				
DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE
02	1 3 1 8	1 5 7	4 6 5	1	0 3	1 3 0 8	1 5 6	4 7 4	1	0 2	1 1 8 6	2 0 0	5 6 5	1	0 1	9 9 0	2 6 0	5 3 9	1
03	1 1 4 7	2 0 0	4 2 6	2	0 4					0 4	8 1 5	3 3 0	4 8 1	1	0 2	9 5 2	2 7 0	5 2 1	1
04					0 5					0 7	1 2 3 7	1 8 5	6 3 8	1	0 3	1 4 8 9	1 2 3	5 7 8	1
05	8 1 6	5 2 4	4 5 1	1	0 6					0 8	1 5 7 9	1 0 5	5 5 0	1	0 4	1 3 0 0	1 7 1	5 9 0	1
06	8 3 0	3 1 7	4 8 7	1	0 7	1 2 4 1	1 8 7	5 9 3	1	0 9	1 0 8 1	2 3 2	5 6 5	1	0 5				
07	9 0 4	2 8 7	5 3 5	1	0 8	1 0 8 8	2 5 6	5 6 2	1	1 1	1 2 4 1	1 8 6	6 5 7	1	0 6	8 2 0	3 1 7	4 8 5	1
08	7 7 4	3 4 1	4 9 3	1	0 9	1 1 8 5	2 0 0	4 7 3	3	1 2	1 1 3 0	2 0 9	4 8 6	1	1 0	8 7 3	3 0 0	5 1 2	1
09	1 0 2 5	2 4 2	5 6 3	1	1 0	1 1 0 2	2 2 7	6 0 0	1	1 3	1 0 3 9	2 4 1	5 4 9	2	1 4	1 0 8 7	2 2 6	5 8 5	2
10	1 2 4 4	1 7 0	4 2 0	1	1 1					1 6	9 7 3	2 5 6	5 1 4	1	1 1	1 2 6 0	1 6 8	4 4 5	3
11	8 5 9	3 0 0	4 9 6	1	1 2	1 3 4 4	1 6 4	6 2 1	1	1 5	1 2 8 3	1 6 0	4 9 4	1	1 6	9 6 8	2 6 4	5 7 5	2
12	8 5 9	3 0 0	5 2 5	2	1 4	1 2 0 1	1 8 6	4 8 3	2	1 7	1 2 8 3	1 6 0	4 8 2	3	1 8	1 2 3 1	1 8 4	6 5 8	1
13	1 0 1 8	2 3 4	4 2 4	1	1 5					1 9	8 4 7	3 2 1	4 9 1	1	1 9				
14	8 0 6	3 2 4	5 0 0	2	1 6	9 3 6	2 7 0	5 4 5	1	1 8	8 8 3	3 0 0	4 8 2	3	1 9	1 5 7 3	4 4 4	4 8 1	2
15	8 1 9	3 1 7	5 3 5	1	1 8	8 0 1	3 2 9	4 8 6	1	1 9	8 4 7	3 2 1	4 9 1	1	1 9	8 0 4	5 2 3	4 8 6	1
16					1 9	7 9 7	3 3 0	5 3 0	1	2 0	8 2 7	2 5 2	5 5 1	1	1 9	7 5 8	5 4 2	5 2 5	1
17	9 6 7	2 7 0	5 6 6	1	2 0	6 6 9	4 0 0	4 3 9	3	2 1	7 6 4	3 5 1	4 8 6	1	2 2	1 0 6 1	2 2 5	6 3 6	1
18	1 1 2 8	2 1 6	5 8 8	1	2 1	1 0 7 9	2 3 0	5 7 0	1	2 2	9 5 8	2 6 4	5 2 5	1	2 3	1 0 5 2	2 4 1	6 1 1	1
19					2 2	1 2 2 7	1 8 0	4 5 4	1	2 4	1 4 5 3	1 3 0	5 6 2	1	2 5	8 6 5	5 1 2	4 6 5	1
20	9 7 0	2 6 5	5 3 6	1	2 3					2 6	1 1 2 2	2 1 9	5 5 2	1	2 7	1 2 4 0	1 8 2	6 4 1	1
21	1 1 3 0	2 0 0	3 8 0	2	2 5					2 8	1 4 1 7	1 3 3	5 6 3	1	2 9	1 0 7 4	2 2 7	5 8 7	1
22					2 6	1 1 3 3	2 1 4	6 1 5	1	2 8					3 0	1 2 1 7	1 7 8	5 9 0	1
23	8 2 6	3 2 4	4 6 8	1	2 7	1 1 2 0	2 1 9	5 5 9	1	2 9	7 6 5	3 4 5	4 7 5	1	2 9	1 0 5 0	2 2 7	5 7 3	1
24	1 4 5 7	1 3 2	5 2 8	1	2 8					3 0	8 6 2	3 0 0	4 6 3	1	2 9	1 2 4 0	1 8 2	6 4 1	1
25	7 3 6	3 6 6	4 6 7	2						3 1	9 7 0	2 6 3	5 0 9	1	2 9	1 0 7 4	2 2 7	5 8 7	1
26	8 7 1	3 0 0	5 5 0	1						3 0					3 0	1 2 1 7	1 7 8	5 9 0	1
27	9 8 1	2 5 7	5 4 0	1						3 1					3 0	1 0 5 0	2 2 7	5 7 3	1
28																			
29	7 4 6	3 5 6	5 0 8	1															
30	7 9 3	3 3 6	4 6 1	1															
31	1 1 3 8	2 1 0	5 8 2	1															
MAY					JUNE					JULY					AUGUST				
DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE
01					0 1					0 1	9 3 3	2 4 9	6 1 5	1	0 1	1 2 6 0	1 5 0	6 3 8	1
02					0 2	7 0 8	3 2 0	5 1 0	1	0 2	9 9 0	2 3 3	5 8 0	1	0 2	1 1 8 7	1 7 0	5 8 7	1
03	8 9 1	2 7 6	5 8 4	1	0 3	7 7 7	3 3 3	5 0 0	1	0 3	7 8 8	3 2 0	5 6 1	1	0 3	1 0 7 6	2 1 7	5 7 1	1
04	8 8 6	2 8 4	6 3 4	1	0 4	7 3 6	3 5 2	5 7 0	1	0 4	8 6 7	2 8 0	5 8 4	1	0 4	9 2 9	2 6 9	6 0 1	1
05	8 1 0	3 1 9	5 2 9	1	0 5	1 4 8 4	2 1 5	6 3 0	1	0 5	7 1 7	3 5 3	6 0 4	2	0 5	9 6 0	2 6 3	6 1 3	1
06	1 0 7 0	2 2 3	6 8 0	1	0 6	9 2 1	3 2 1	5 9 2	1	0 6	9 7 0	2 4 0	6 5 9	1	0 7	1 1 4 6	2 0 0	7 1 2	1
07	9 3 7	2 5 7	5 3 5	1	0 7	1 0 1 2	2 4 0	6 0 9	1	0 8	7 7 1	3 2 5	6 2 0	2	0 8	1 0 9 1	2 1 8	6 5 7	1
08	1 0 3 1	2 2 9	5 6 4	1	0 9					0 9	8 5 0	2 9 4	5 7 4	1	0 9				
09					1 0	8 5 4	2 9 2	5 5 6	1	1 0					1 0	7 9 0	3 2 4	5 2 3	1
10					1 1					1 1	8 5 7	2 8 9	5 2 9	1	1 1	8 2 8	3 0 0	5 8 8	1
11					1 2	8 3 0	3 0 4	6 1 3	1	1 2	8 6 4	2 8 7	6 0 5	1	1 2	8 5 0	2 9 6	5 4 6	1
12	1 2 1 7	1 8 4	6 3 7	1	1 3	7 5 4	3 4 5	5 6 4	1	1 3	8 5 9	3 0 0	5 8 9	1	1 3	8 4 9	2 9 7	5 3 9	1
13					1 4	1 0 0 0	2 4 1	6 4 0	1	1 4	9 5 1	2 6 0	6 4 5	1	1 4	6 9 9	3 6 4	5 6 5	1
14	9 9 6	2 5 2	5 2 2	1	1 5	7 7 7	3 2 4	5 8 2	1	1 5	1 1 3 9	2 0 0	7 1 8	1	1 5	7 6 3	3 2 9	5 8 4	1
15	1 0 5 8	2 3 1	6 5 6	1	1 6	9 0 8	1 9 4	6 4 5	1	1 6	1 0 9 2	2 1 2	6 9 3	1	1 6	8 3 7	3 0 0	6 2 4	1
16	9 0 0	2 8 5	5 6 1	1	1 7	1 0 8 4	2 1 8	6 6 6	1	1 7	1 0 2 1	2 3 7	6 3 9	1	1 7	1 0 5 8	2 2 3	6 4 3	1
17					1 8	1 0 9 5	2 1 7	7 1 7	1	1 8	1 1 6 5	1 9 3	6 9 6	1	1 8	2 0			
18	7 6 1	3 4 3	5 2 8	1	1 9	1 0 1 7	2 4 2	6 6 6	1	1 9	1 1 3 8	2 0 0	7 2 5	1	1 9				
19	7 2 7	3 5 6	5 1 1	1	2 0	9 0 5	2 7 4	5 2 9	1	2 1	2 1				2 2	1 0 1 0	2 3 9	6 3 4	1
20					2 1	9 6 3	2 5 5	6 1 9	1	2 2	1 1 3 1	2 0 8	7 0 3	2	2 2	8 1 5	3 1 0	5 4 8	1
21					2 2	1 0 5 4	2 3 0	6 6 9	1	2 3	9 2 9	2 7 0	6 2 9	2	2 3	8 0 2	3 1 0	5 1 1	1
22					2 3	6 2 6	2 7 4	5 2 9	1	2 4	7 5 7	3 3 7	5 2 0	2	2 4	8 6 6	2 8 6	5 6 2	2
23					2 4	2 9 0	2 7 4	5 2 9	1	2 5	7 0 5	2 7 4	6 2 9	2	2 5	8 6 6	2 8 6	5 6 2	2
24					2 5	9 7 8	2 4 8	5 2 9	1	2 6	1 0 3 8	2 3 7	6 6 5	1	2 6	7 9 2	3 3 4	4 8 8	1
25					2 6	1 1 7 4	1 9 7	6 5 7	1	2 7	9 5 6	2 6 2	6 6 5	1	2 7	8 1 0	5 2 3	5 0 4	1
26					2 7	1 1 5 0	2 0 9	6 9 5	1	2 8	9 4 6	2 6 0	6 6 5	1	2 8	8 4 7	3 0 4	5 2 2	1
27					2 8	1 2 0 3	1 7 8	5 1 8	1	2 9	1 0 0 3	2 5 1	5 1 4	1	2 9	8 5 1	3 1 6	4 9 8	3
28					2 9	1 2 7 8	1 6 0	5 1 3	1	3 0	9 0 7	2 7 4	5 1 8	1	3 0	7 7 4	3 4 5	4 6 1	1
29					3 0	1 0 1 8	2 4 1	6 0 4	1	3 1	9 8 3	2 4 6	6 8 0	1	3 1	8 5 7	5 0 0	5 1 5	1
30					3 1	6 5 9	2 6 6	5 9 9	1	3 2	9 1 9	2 6 6	5 5 6	1	3 2	9 5 8	2 6 5	5 5 6	1
31										3 3	9 5 0	2 9 0	6 8 1	1	3 3	7 9 2	3 3 4	4 8 8	1
32										3 4	8 6 5	2 9 0	6 8 1	1	3 4	8 4 7	3 0 4	5 2 2	1
33										3 5	8 4 6	3 0 8	5 5 9	1	3 5				

**RESULTS OF RADIOSONDE OBSERVATIONS AT
MACQUARIE ISLAND
FOR THE MONTH OF JANUARY 1949**

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	013	005	904	43	011	096	5038	028	141	5024	013	189	5035	293	5075	412	133	010						
02	013	008	105	59	011	097	002	039	142	5026	034	190	5040	29	256	5039	01B	416	089					
03	008	007	705	52	007	093	0001	032	138	5004	026	187	0014	20	294	5050	02B	414	115					
04	995	007	750	65	504	083	0040	052	129	0007	045	178	5010	042	284	5040	03R	404	100					
05	976	007	760	67	519	067	0051	062	114	0033	058	163	0012	052	270	5048	054	385	126					
06	985	007	740	66	512	075	0054	054	121	0027	056	170	5003	048	275	5067	030	394	137					
07	996	006	204	70	503	083	012	034	128	0000	038	177	5013	040	282	5071	02P	400	144					
08	002	005	104	5	002	087	002	029	152	5039	022	180	5070	019	283	5118	01R	400	181					
09	993	005	405	54	505	080	002	041	126	5025	034	174	5040	036	278	5110	024	394	189					
10	005	004	604	46	005	090	002	041	135	5057	027	182	5090	024	284	5142	016	399	217					
11	005	004	604	46	005	090	002	041	137	0004	051	186	5023	022	290	5085	027	409	140					
12	006	005	605	58	005	091	012	045	130	0002	039	179	5022	041	285	5053	034	404	116					
13	998	006	905	59	501	084	0004	043	131	5018	024	179	5045	022	284	5063	010	405	130					
14	000	005	704	48	001	086	020	037	131	5018	024	179	5045	022	284	5063	010	405	130					
15	000	006	705	58	001	087	007	078	134	0065	047	184	5042	036	291	5015	043	097	032					
16	000	005	705	52	001	086	5015	038	131	5015	036	180	5033	036	284	5062	034	404	134					
17	010	005	606	44	009	094	5026	027	139	5036	020	187	5059	012	290	5091	00R							
18	007	005	004	46	005	091	5020	020	137	5040	012	184	5080	009	287	5101	404	154	011					
19	008	005	606	48	007	092	5011	032	138	5003	023	186	5009	293	5010	415	070	010						
20	003	006	804	46	005	088	0021	015	134	0012	018	5019	288	5062	031	409	090	032						
21	990	007	740	56	508	078	0008	039	124	0011	016	173	5010	012	278	5071	014	596	171					
22	991	005	608	44	507	078	5015	034	124	5020	019	172	5050	016	276	5113	006	392	202					
23	996	006	705	53	503	083	5009	034	128	5024	031	176	5045	022	280	5115	014	396	194					
24	011	005	403	38	010	094	5028	028	139	5067	025	187	5067	017	290	5120	011	406	203					
25	009	006	705	58	008	094	0000	038	139	5032	030	187	5059	021	290	5122	019	406	200					
27	012	006	205	0	610	096	5009	035	141	5043	029	189	5052	013	293	5074	012	413	098					
28	008	006	706	1	007	093	0020	048	139	0000	043	188	5022	036	293	5045	032	414	090					
29	008	005	103	39	007	092	5035	029	137	5077	025	184	5088	013	288	5080	407	120	006					
30	996	005	103	38	503	082	5024	030	127	5047	017	175	5009	282	5025	010	405	079						
31	972	005	205	6	523	063	0006	042	109	5020	034	157	5044	036	261	5098	378	159						
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			
19	555	139	10	720	264	06	921	420	186	561	572	497	572	519	772	484	962	464						
20	547	204	10	709	302	08	907	443	173	547	560	489	625	500	772	484	962	464						
21	528	256	03	689	455		883	434	155	450	348	434	619	449	768	443	961	439						
22	525	299		680	430		869	514	138	423	332	430	606	424	756	430	950	435						
24	540	201		702	320	06	899	484	159	517	346	498	613	459										
25	539	276	08	697	375	04	889	504	153	487	346	498	613	459										
27	551	190		714	314	03	911	464	157	511	360	524	622	505	767	497	956	488						
28	552	185	1	718	277	07	916	426	180	519														
29	544	209	08	706	290	03	906	431																
30	543	157	12	707	269	08	909	408	174	525	360	527	623	519	769	504	957	484						
31	513	248	673	347	04	868	456	142	417	357	408	610	451	759	454	950	459							
01	549	226	08	709	344	05	904	495	166	473	354	488	620	496	766	479	956	479						
02	555	186		718	315	06	915	455	176	578	360	521	623	504	769	501	957	499						
03	551	210	14	714	293	08	913	437	173	612														
04	542	194	07	704	318		900	488	159	507	350	474	618	475	766	468	957	458						
05	525	246	06	684	329		885	368	162	434	355	440	626	453										
06	530	220	04	690	346		886	451	157	436	349	454	618	464	767	460	958	460						
07	536	218	12	697	346	05	890	510	156	465	349	452	618	450	766	465								
09	534	269		690	384	02	883	501	152	434	345	432	617	450	766	447	958	440						
10	528	274	04	685	368		877	500	147	415	342	417	616	431	766	438								
11	531	304	04	686	421	02	877	465	150	419	344	430	616	448	765	449	957	450						
12	545	220	14	706	325	02	902	485	163	506														
13	542	200	13	704	304	07	902	485	164	515	352	489	617	492	764	478								
14	541	204	04	701	335		897	460	165	466	354	490	620	492	767	484	956	474						
15	551	174	18	715	269	03	915	427	181	510	366	568	623	563	765	532	952	495						
16	542	155	23	707	267	10	908	422	172	509	360	482	626	490	772	479	952	465						
18	540	228	08	700	330	06	897	468	164	478	354	474	622	490	769	481	958	474						

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF FEBRUARY 1949

DAY	SURFACE			1000 MB			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 7	0 0 6	5 5 4	5 1 9	0 6 8	0 0 0	7	0 4 2	1 1 3	5 0 3	5 5	1 6 1	5 0 4	2	0 2 5	2 6 6	5 0 9	9	0 1 9	3 8 2	1 7 7	0 1 5			
02	9 8 7	0 0 5	5 0 4	5 1 0	0 7 5	5 0 1	2	0 3 5	1 2 1	5 0 3	3 1	0 3 4	1 6 8	5 0 5	7	0 3 0	2 7 2	5 0 9	0	2 8	3 9 0	1 6 1	0 1 9		
03	9 9 2	0 0 6	5 0 5	5 0 6	0 8 0	5 0 0	4	0 3 2	1 2 5	5 0 2	5 6	1 7 3	5 0 5	3	0 1 7	2 7 6	5 1 2	5	0 0 6	3 9 2	2 0 3				
04	9 8 7	0 0 6	5 0 4	5 1 0	0 7 5	5 0 0	9	0 3 5	1 2 1	5 0 4	1	0 2 8	1 6 8	5 0 5	4	0 2 6	2 7 2	5 1 2	3	0 0 7	3 8 8	1 8 1			
05	9 8 5	0 0 7	7 0 6	5 1 2	0 7 5	5 0 3	3	0 5 3	0 5 3	1 2 1	5 0 0	1	0 3 7	1 6 9	5 0 3	4	0 2 8	2 7 3	5 0 9	9	0 1 8	3 9 0	1 8 4	0 1 2	
06	9 8 5	0 0 7	7 0 6	5 1 2	0 7 5	5 0 3	3	0 5 3	0 5 3	1 2 1	5 0 0	1	0 3 7	1 6 9	5 0 3	4	0 2 8	2 7 3	5 0 9	9	0 1 8	3 9 5	2 0 6	0 1 2	
07	9 9 5	0 0 7	1 0 5	5 0 4	0 8 2	5 0 0	1	3	0 1 3	0 3 6	1 2 8	5 0 2	0	0 2 5	1 7 6	5 0 5	0	2 0 0	2 7 9	5 1 2	0	0 1 9	3 9 5	2 0 6	0 1 2
08	0 0 7	0 0 7	8 0 5	5 0 6	0 9 3	5 0 0	1	2	0 1 2	0 3 8	1 3 8	5 0 0	5	0 2 8	1 8 6	5 0 3	8	0 2 3	2 9 0	5 1 0	9	0 1 2	4 0 7	1 7 2	0 0 6
09	9 9 2	0 0 6	6 0 5	5 0 6	0 8 0	5 0 0	0	0 0 8	0 4 4	1 2 5	5 0 0	7	0 3 5	1 7 3	5 0 3	0	0 3 6	2 7 8	5 1 1	4	0 2 6	3 9 5	1 9 7	0 1 3	
10	9 9 1	0 0 7	1 0 5	5 0 7	0 7 9	5 0 2	2	0 4 4	1 2 5	5 0 0	7	0 3 5	1 7 3	5 0 3	0	0 2 4	2 7 8	5 1 0	4	0 1 8	3 9 5	1 8 2	0 0 7		
11	9 8 5	0 0 6	7 0 5	5 1 2	0 7 4	5 0 0	4	0 0 4	0 3 7	1 1 9	5 0 4	8	0 2 9	1 6 7	5 0 7	5	0 2 1	2 7 0	5 1 3	9	0 0 7	3 9 6	2 0 1		
12	9 8 2	0 0 5	8 0 4	5 1 4	0 7 1	5 0 0	2	0 0 2	0 3 8	1 1 7	5 0 3	5	0 3 1	1 6 4	5 0 6	3	0 2 7	2 6 7	5 1 3	7	0 1 7	3 8 2	2 3 0	0 0 8	
13	9 8 6	0 0 5	7 0 4	5 1 1	0 7 4	5 0 0	7	0 0 7	0 3 4	1 2 0	5 0 4	8	0 2 2	1 6 7	5 0 8	9	0 1 9	2 6 9	5 1 5	5	0 0 7	3 8 4	2 5 2	0 0 5	
14	9 6 6	0 0 7	2 0 6	5 2 8	0 5 9	5 0 0	4	0 5 4	0 5 2	1 0 5	5 0 0	4	0 0 4	1 5 3	5 0 1	8	0 4 1	2 5 8	5 0 7	4	0 3 2	3 7 7	1 5 0	0 2 1	
15	9 6 6	0 0 6	4 0 5	5 2 8	0 5 8	5 0 0	9	0 0 9	0 3 9	1 0 4	5 0 2	1	0 2 1	1 5 2	5 0 5	4	0 3 0	2 5 5	5 1 2	6	0 2 1	3 7 1	2 0 7	0 1 0	
16	9 7 2	0 0 5	7 0 5	5 2 5	0 6 3	5 0 0	2	0 2 3	0 4 2	1 0 9	5 0 1	0	0 3 1	1 5 7	5 0 3	9	0 2 1	2 6 1	5 1 1	5	0 1 7	3 7 7	2 0 6	0 0 8	
17	9 7 9	0 0 4	4 0 4	5 1 7	0 6 8	5 0 2	2	0 3 2	0 3 2	1 1 4	5 0 4	6	0 2 7	1 6 1	5 0 7	6	0 2 3	2 6 3	5 1 4	2	0 1 8	3 7 9	2 1 8	0 0 6	
18	9 7 7	0 0 4	9 0 4	5 1 8	0 6 7	5 0 1	3	0 3 4	1 1 2	5 0 4	4	0 2 9	1 6 0	5 0 7	8	0 2 5	2 6 2	5 1 4	1	0 1 7	3 7 7	2 2 7	0 0 9		
19	9 8 1	0 0 4	4 0 4	5 1 5	0 7 0	5 0 1	0	0 3 3	1 1 6	5 0 5	2	0 2 9	1 6 3	5 0 8	0	0 2 2	2 6 5	5 1 6	0	0 1 4	3 7 9	2 4 0	0 0 8		
20	0 0 3	0 0 6	2 0 4	5 0 6	0 0 3	0 8 8	5 0 1	6	0 3 5	1 3 3	5 0 4	7	0 2 8	1 8 1	5 0 6	4	0 2 2	2 8 4	5 1 2	7	0 0 9	4 0 1	1 6 6		
21	0 0 2	0 0 5	4 0 4	5 0 2	0 0 2	0 8 7	5 0 1	8	0 3 4	1 3 2	5 0 5	0	0 3 0	1 8 0	5 0 8	2	0 2 5	2 8 2	5 1 4	3	0 1 2	0 9 9	1 7 5		
22	0 0 8	0 0 5	6 0 2	5 0 2	0 0 7	0 9 2	5 0 2	3	0 2 3	0 3 1	1 3 7	5 0 4	7	0 2 7	1 8 5	5 0 7	1	0 2 2	2 8 6	5 1 3	6	0 1 4	4 0 3	2 0 3	0 1 0
23	9 9 8	0 0 5	9 0 5	5 0 1	0 8 4	0 0 1	0	0 4 2	1 3 0	5 0 3	0	0 3 4	1 7 8	5 0 2	4	0 3 8	2 8 4	5 0 6	1	0 3 1	4 0 3	1 1 3	0 1 3		
27	0 0 0	0 0 6	9 0 5	5 0 1	0 8 6	5 0 0	4	0 3 5	1 3 2	5 0 4	4	0 2 4	1 7 9	5 0 4	7	0 0 8	2 8 4	5 0 9	5	0 1 8	4 0 1	1 4 8	0 0 5		
28	9 9 5	0 0 6	6 0 2	5 0 4	0 8 3	5 0 0	2	0 2 7	0 5 0	1 2 9	5 0 0	7	0 0 7	0 4 6	1 7 8	5 0 0	9	0 4 2	2 8 3	5 0 6	1	0 3 4	4 0 2	1 4 0	0 1 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 1 6	2 7 2	0 6	6 7 3	3 9 9	0 2	8 6 5	4 5 3	1 3 9	4 0 1	3 3 4	4 3 0	6 0 5	4 4 9	7 5 4	4 6 0									
02	5 2 5	2 4 2	1 0	6 8 4	3 6 6	0 4	8 7 7	5 0 3	1 4 3	4 6 3	3 3 5	4 5 6	6 0 5	4 6 2	7 5 3	4 6 5									
03	5 2 6	2 7 5	0 4	6 8 3	3 9 6		8 7 7	4 9 6	1 4 1	4 6 2	3 3 2	4 5 2	6 0 3	4 3 8	7 5 3	4 4 0	9 4 6	4 4 2							
04	5 2 1	2 7 7		6 7 7	4 0 4	0 1	8 7 1	4 3 2	1 4 4	4 4 0	3 3 5	4 5 0	6 0 5	4 6 0	7 5 3	4 5 2	9 4 5	4 4 4							
06	5 2 3	2 9 0	0 7	6 7 9	3 7 5		8 7 4	4 2 3	1 4 9	4 0 7	3 4 2	4 6 4	6 1 2	4 6 0	7 6 0	5 7 0									
07	5 2 8	2 7 9		6 8 5	3 7 1		8 7 8	5 1 0	1 5 0	4 1 7	3 4 4	4 4 1	6 1 4	4 7 4	7 6 2	4 6 3	9 5 3	4 6 5							
08	5 4 2	2 3 5	1 1	7 0 2	3 3 6	0 6	8 6 9	4 2 8	1 6 9	4 7 4	3 6 0	4 7 4	6 2 6	4 6 8											
09	5 2 7	3 0 0	0 7	6 8 2	4 2 2	0 3	8 7 7	4 1 1	1 4 2	4 0 5	3 3 7	4 3 7	6 0 6	4 7 2	7 5 4	5 6 9									
10	5 2 7	2 9 2	0 3	6 8 3	4 1 7	0 2	8 7 7	4 3 8	1 5 0	4 3 6	3 4 3	4 5 6	6 1 3	4 6 8	7 6 2	4 5 9									
11	5 1 8	3 1 3		6 7 1	4 4 7		8 6 0	4 9 7	1 3 0	4 5 5	3 2 1	4 5 7	5 9 0	4 5 8	7 3 9	4 6 0	9 3 0	4 6 5							
12	5 1 3	3 1 1	0 2	6 6 7	4 1 9		8 5 7	5 3 0	1 2 7	4 2 6	3 2 1	4 2 6	5 9 5	4 1 7	7 4 5	4 2 6	9 3 9	4 3 8							
13	5 1 7	3 2 7	0 3	6 6 7	4 2 5		8 5 7	5 3 8	1 2 5	4 4 0	3 1 8	4 3 2	5 9 1	4 2 5	7 4 2	4 3 0	9 3 5	4 4 0							
14	5 1 2	2 1 6	1 3	6 7 3	3 2 8	0 6	8 6 9	4 8 5	1 3 2	4 8 4	3 2 2	4 7 0	5 9 1	4 5 3	7 4 0	4 4 9									
15	5 0 3	3 0 6	0 6	6 5 8	4 1 3	0 3	8 5 1	4 0 7	1 2 8	3 8 9	3 2 5	4 0 7	6 0 0	4 3 1											
16	5 1 0	3 0 3	0 5	6 6 5	4 0 8		8 6 0	4 0 5	1 3 9	3 8 3	3 3 5	4 2 0	6 0 9	4 1 4											
17	5 1 1	2 9 4	0 7	6 6 6	3 9 9	0 3	8 5 7	4 9 0	1 2 7	4 2 0	3 2 1	4 2 9	5 9 4	4 3 9	7 4 3	4 4 3	9 3 5	4 4 8							
18	5 0 8	3 3 4	0 5	6 6 2	4 4 0		8 5 2	4 3 8	1 2 8	4 1 5	3 2 2	4 3 1	5 9 5	4 2 7	7 4 5	4 3 1									
19	5 1 0	3 5 3	0 4	6 6 2	4 5 0	0 1	8 5 4	4 2 1	1 3 0	4 1 7	3 2 4	4 2 9	5 9 7	4 4 5											
20	5 3 5	2 3 2	0 4	6 9 5	3 6 1	0 2	8 8 8	5 0 0	1 5 1	4 7 6	3 4 2	4 4 7	6 1 2	4 8 3	7 5 9	4 7 8	9 4 9	5 7 0							
21	5 3 3	2 7 3		6 8 9	3 9 8		8 8 0	5 3 2	1 4 6	4 6 5	3 3 7	4 6 3	3 4 3	4 7 2	6 1 2	4 6 8	7 5 9	4 6 9							
22	5 3 6	2 9 4	0 6	6 9 0	4 2 4	0 2	8 8 2	4 5 6	1 5 3</td																

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF MARCH 1949

DAY	SURFACE			1000 MB		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	
02	0 1 9	0 0 5	4 0 4 1	0 1 6	1 0 0	5 0 4 0	0 2 6	1 4 5	5 0 4 9	0 0 8	1 9 3	5 0 7 0	2 9 6	5 1 0 0	0 1 4	4 1 4	1 6 3	0 1 8		
05	9 9 7	0 0 6	8 0 6 2	5 0 2	0 8 4	0 0 4	0 4 4	1 2 9	5 0 2 7	0 3 2	1 7 7	5 0 4 0	0 2 3	2 8 1	5 1 0 9	0 1 1	3 9 9	1 6 0	0 0 5	
06	0 1 1	0 0 5	9 0 3 4	0 0 9	0 9 4	5 0 4 7	0 2 4	1 3 6	5 0 8 6	0 2 5	1 8 5	5 1 1 2	0 1 6	2 8 7	5 1 3 1	0 0 6	4 0 4	1 6 0	0 0 4	
07	0 1 5	0 0 5	9 0 4 7	0 1 3	0 9 8	5 0 0 9	0 2 2	1 4 3	5 0 1 5	0 1 1	1 9 2	5 0 3 4	0 1 0	2 9 7	5 0 6 5	0 0 9	4 1 6	1 0 2	0 1 0	
08	0 1 8	0 0 6	8 0 5 8	0 1 5	1 0 1	5 0 3 6	0 4 8	1 4 8	5 0 3 0	0 4 8	1 9 6	5 0 0 4	0 4 4	3 0 3	5 0 3 5	0 3 9	4 2 4	1 0 7	0 2 5	
09	0 1 8	0 0 6	7 0 5 7	0 1 5	1 0 1	5 0 1 0	0 3 6	1 4 6	5 0 4 0	0 3 0	1 9 6	5 0 0 4	0 4 0	3 0 4	5 0 0 6	0 4 2	4 2 5	0 8 2		
10	9 9 3	0 0 7	3 0 6 5	5 0 5	0 8 2	0 0 8 2	0 7 7	1 2 9	0 0 7 1	0 7 5	1 7 9	0 0 4 5	0 5 7	2 8 6	5 0 3 8	0 3 5	4 0 7	0 8 7	0 1 4	
11	0 1 1	0 0 6	5 0 5 2	0 1 0	0 9 5	0 0 0 0	0 2 4	1 4 1	0 0 1 7	0 1 0	1 8 9	5 0 0 8	0 1 7	2 9 5	5 0 6 5	0 2 1	4 2 2	1 0 0	0 1 6	
12	0 1 9	0 0 6	8 0 5 8	0 1 6	1 0 2	0 0 0 4	0 3 7	1 4 7	5 0 5 4	0 3 3	1 9 5	5 0 3 0	0 3 0	3 0 1	5 0 2 2	0 2 4	4 2 2	1 0 0	0 1 6	
15	9 9 3	0 0 6	3 0 6 0	5 0 5	0 8 1	0 0 3 6	0 5 1	1 2 7	0 0 2 3	0 4 9	1 7 6	5 0 0 6	0 4 3	2 8 2	5 0 7 1	0 3 1	4 0 0	1 5 4	0 2 0	
16	9 8 5	0 0 6	4 0 5 6	5 1 4	0 7 2	0 0 1 0	0 4 4	1 1 8	5 0 2 5	0 3 6	1 6 6	5 0 5 5	0 2 8	2 6 9	5 1 2 9	0 1 3	3 8 5	2 1 5	0 1 0	
17	9 9 1	0 0 4	3 0 4 3	5 0 7	0 7 8	5 0 2 5	0 3 6	1 2 3	5 0 6 0	0 2 3	1 7 0	5 0 9 6	0 2 5	2 7 2	5 1 4 9	0 1 1				
18	9 8 5	0 0 6	1 0 5 7	5 1 3	0 7 2	5 0 0 1	0 4 0	1 1 8	5 0 3 6	0 3 1	1 6 5	5 0 6 2	0 2 6	2 6 9	5 1 2 9	0 0 7	3 8 5	1 8 3		
20	9 7 9	0 0 4	4 0 4 6	5 1 7	0 6 9	5 0 0 9	0 5 3	1 1 4	5 0 4 5	0 2 5	1 6 1	5 0 7 8	0 2 0	2 6 4	5 1 4 9	0 0 8	3 7 8	2 4 7	0 0 3	
21	9 8 5	0 0 3	9 0 4 2	5 1 2	0 7 5	5 0 1 6	0 3 2	1 1 9	5 0 5 0	0 2 6	1 6 6	5 0 8 8	0 2 1	2 6 8	5 1 6 9	0 1 1	3 8 1	2 6 1	0 0 6	
22	0 0 6	0 0 1	6 0 3 5	0 0 5	0 8 9	5 0 5 2	0 2 4	1 3 4	5 0 8 9	0 1 9	1 8 0	5 1 2 2	0 1 8	2 8 2	5 1 3 4	0 1 8	3 9 8	1 8 3		
23	9 9 3	0 0 3	4 0 3 9	5 0 5	0 8 0	5 0 2 7	0 2 8	1 2 5	5 0 4 5	0 2 1	1 7 2	5 0 8 5	0 1 9	2 7 4	5 1 6 0	0 1 0	3 8 9	2 1 3		
24	9 9 5	0 0 3	2 0 3 8	5 0 3	0 8 1	5 0 2 9	0 3 1	1 2 6	5 0 6 4	0 2 8	1 7 3	5 0 9 2	0 2 3	2 7 5	5 1 6 9	0 1 5	3 8 9	2 5 6	0 0 8	
25	9 9 2	0 0 0	1 0 3 5	5 0 6	0 7 6	5 0 6 8	0 2 2	1 2 2	5 1 0 5	0 1 7	1 6 8	5 1 4 0	0 1 4	2 6 8	5 2 1 6	0 1 0	3 8 0	2 7 8	0 0 4	
26	0 1 3	0 0 2	7 0 3 2	0 1 1	0 9 5	5 0 5 8	0 2 3	1 3 9	5 1 0 0	0 1 9	1 8 5	5 1 3 0	0 1 4	2 8 7	5 1 3 5	0 1 1	4 0 3	1 9 7	0 1 3	
30	9 9 8	0 0 4	4 0 4 6	5 0 1	0 8 5	5 0 3 5	0 2 7	1 2 8	5 0 5 8	0 2 1	1 7 6	5 0 7 2	0 1 0	2 7 9	5 0 7 4	0 0 8	3 9 7	1 4 4	0 0 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	HHH	TTT	WW	HHH	TTT	WW			
02	5 4 9	2 4 0	1 1	7 0 6	3 6 8	0 4	8 9 9	5 4 0	1 6 1	4 8 2	3 5 0	5 0 5	6 1 3	5 1 5	7 5 8	5 0 0														
05	5 3 4	2 3 2		6 9 4	3 2 7	0 6	8 9 0	4 8 0	1 5 8	4 5 5																				
06	5 3 9	2 4 7	0 6	6 9 8	3 6 7	0 4	8 9 1	5 0 2	1 5 8	4 8 6	3 4 6	4 2 2	6 0 8	5 1 5																
07	5 5 4	1 8 1	0 7	7 1 6	3 0 8	0 5	9 1 4	4 5 8	1 7 5	5 6 1	3 6 0	5 3 3	6 1 9	5 4 7	7 6 3	5 3 9														
08	5 6 2	1 9 5	1 5	7 2 4	3 0 5	0 8	9 2 2	4 5 6	1 8 1	6 2 4	3 6 2	5 6 2	6 1 8	5 5 0	7 6 1	5 2 7														
09	5 6 4	1 8 7		7 2 7	3 1 5	0 7	9 2 5	4 4 5	1 8 5	6 1 8	3 6 5	5 7 4	6 2 1	5 6 5	7 6 3	5 5 3	9 4 7	5 4 0												
10	5 4 5	1 7 3	0 7	7 0 6	2 9 4		9 0 6	4 5 2	1 6 9	5 4 1	3 5 4	5 2 5	6 1 6	5 2 3	7 6 1	5 2 1	9 4 7	5 2 0												
12	5 6 0	1 9 1	0 7	7 2 3	3 0 4		9 2 1	4 7 2	1 6 0	6 1 3	3 6 3	5 1 7	6 2 8	4 9 9																
15	5 3 7	2 3 4	1 0	6 9 7	3 2 9	0 3	8 9 3	4 8 2	1 5 6	5 2 0	3 4 3	5 1 0																		
16	5 1 7	3 1 4	0 4	6 7 1	4 2 8	0 1	8 6 5	4 2 1	1 4 1	4 0 9	3 3 6	4 3 0																		
20	5 0 8	3 3 8	0 2	6 6 2	4 1 1		8 5 4	4 5 0	1 2 9	4 0 4	3 2 4	4 2 8	5 9 6	4 5 8																
21	5 1 1	3 6 4	0 3	6 6 2	4 5 7	0 1	8 5 0	4 9 3	1 2 0	4 2 9	3 1 2	4 5 5	5 8 2	4 5 6	7 3 0	4 6 5	9 2 1	4 7 7												
22	5 3 3	2 2 4	0 6	6 9 4	3 1 2	0 4	8 9 2	4 2 7																						
23	5 2 2	2 8 0		6 7 8	3 8 0		8 7 1	4 8 7																						
24	5 1 9	3 1 6	0 5	6 7 4	4 1 4	0 2	8 6 4	5 2 5	1 2 8	4 8 1	3 1 7	4 8 0	5 8 4	4 7 9																
25	5 0 9	3 7 3	0 3	6 6 0	4 6 1	0 1	8 4 7	5 3 1	1 1 3	4 6 1	3 0 4	4 7 4	5 7 1	4 8 0																
26	5 3 7	2 6 7	0 8	6 9 3	3 9 2	0 3	8 8 4	5 3 1	1 3 8	5 8 3	3 2 1	5 4 2	5 8 2	5 2 8	7 2 6	5 2 0														
30	5 5 5	2 2 8	0 5	6 9 4	3 5 0	0 1	8 8 8	4 7 6	1 4 9	5 3 5																				

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF APRIL 1949

DAY	SURFACE			800 MB.S.		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			
03	9 9 6	0 0 5	6 6 0	5 0 3	0 8 3	0 0 3 2	0 4 9	1 2 9	0 0 2 1	0 5 0	1 7 9	0 0 0 3	0 4 5	2 8 5	5 0 4 9	0 3 2	4 0 5	1 2 7	0 1 4			
04	9 9 4	0 0 4	6 0 4	5 0 4	0 8 1	5 0 1 0	0 2 9	1 2 6	5 0 4 9	0 2 2	1 7 4	5 0 7 9	0 2 0	2 7 6	5 1 5 4	0 1 0	3 9 0	2 2 1	0 0 6			
05	9 8 3	0 0 6	1 0 5 2	5 1 3	0 7 2	0 0 0 5	0 4 3	1 1 8	5 0 1 7	0 4 0	1 6 6	5 0 3 2	0 3 5	2 7 1	5 0 7 2	0 2 9	3 9 0	1 3 3	0 1 7			
06	9 9 2	0 0 5	1 0 4 8	5 0 6	0 7 9	0 0 2 8	0 3 7	1 2 5	5 0 1 1	0 3 8	1 7 3	5 0 2 8	0 3 6	2 7 8	5 0 7 2	0 2 8	3 9 7	1 3 8	0 1 9			
08	9 6 6	0 0 5	0 0 5 6	5 2 8	0 5 8	0 0 0 5	0 4 0	1 0 3	5 0 1 7	0 4 7	1 7 3	5 0 2 8	0 3 6	2 7 8	5 0 7 2	0 2 8	3 9 7	1 3 8	0 1 9			
09	9 8 9	0 0 3	9 0 4 0	5 0 8	0 7 6	5 0 3 2	0 2 6	1 2 1	5 0 6 7	0 2 0	1 6 8	5 1 0 4	0 2 0	2 7 0	5 1 7 4	0 1 7	3 8 3	2 2 4	0 0 4			
10	9 7 3	0 0 3	6 0 5 0	5 2 2	0 6 3	5 0 1 3	0 3 3	1 0 9	5 0 4 0	0 3 0	1 6 8	5 0 7 3	0 1 3	2 5 9	5 1 4 4	0 1 7	3 7 4	2 3 8	0 0 7			
11	9 7 9	0 0 2	2 0 3 8	5 1 8	0 6 8	5 0 2 3	0 2 8	1 1 4	5 0 5 1	0 2 3	1 6 1	5 0 8 8	0 2 0	2 6 3	5 1 6 0	0 1 2	3 7 8	2 5 0	0 0 7			
15	0 0 0	0 0 2	0 0 3 6	0 0 2	0 8 5	5 0 3 3	0 3 0	1 3 0	5 0 3 0	0 3 1	1 7 8	5 0 3 3	0 2 6	2 9 3	5 0 6 3	0 3 2	4 0 1	1 4 3	0 1 8			
16	9 9 8	0 0 4	4 0 5 5	5 0 3	0 8 4	5 0 0 3	0 3 7	1 3 0	5 0 1 8	0 3 4	1 7 8	5 0 3 7	0 3 3	2 8 3	5 0 9 9	0 3 1	4 0 1	1 3 2	0 1 7			
17	0 1 2	0 0 4	2 0 5 3	0 1 0	0 9 4	5 0 2 6	0 2 4	1 4 0	0 0 2 5	0 1 3	1 8 9	5 0 0 2	0 2 9	2 9 4	5 0 6 6	0 1 3	4 1 3	1 4 0				
18	0 0 4	0 0 6	8 0 6 0	0 4 0	0 9 1	0 0 7 8	0 6 8	1 3 7	0 0 4 8	0 6 1	1 8 7	5 0 2 3	0 5 0	2 9 3	5 0 3 9	0 3 8	4 1 4	1 0 9	0 2 3			
22	9 9 8	0 0 4	3 0 4 7	5 0 2	0 8 4	5 0 2 5	0 2 7	1 2 9	5 0 5 8	0 2 3	1 7 6	5 0 7 2	0 1 4	2 8 0	5 1 1 5	0 0 4	3 9 6	2 0 7	0 0 6			
23	9 9 5	0 0 3	4 0 4 0	5 0 4	0 8 1	5 0 2 0	0 3 1	1 2 7	5 0 4 1	0 2 5	1 7 4	5 0 7 7	0 2 0	2 7 7	5 1 4 8	0 0 7	3 9 2	2 3 6	0 0 5			
24	0 0 9	0 0 4	4 0 4 3	5 0 8	0 9 5 3	5 0 2 0	0 3 5	1 3 9	5 0 0 2	0 3 5	1 8 7	5 0 1 5	0 5 2	2 9 2	5 0 6 9	0 2 2	4 1 2	1 1 1				
25	0 1 5	0 0 5	7 0 5 5	6 1 3	0 9 8	0 0 1 5	0 4 3	1 4 4	5 0 0 1	0 3 7	1 9 3	5 0 2 0	0 3 3	2 9 8	5 0 8 1	0 1 7	4 1 7	1 2 6				
26	0 0 5	0 0 5	9 0 5 7	0 0 5	0 9 0	5 0 0 3	0 3 7	1 3 6	5 0 2 1	0 3 7	1 8 5	5 0 4 2	0 3 2	2 8 9	5 0 9 0	0 2 3	4 0 7	1 6 9	0 1 3			
28	0 0 5	0 0 6	6 0 5 7	0 0 5	0 9 1	0 0 6 0	0 5 9	1 3 7	0 0 2 9	0 5 0	1 8 7	5 0 1 8	0 2 7	2 9 3	5 0 6 3	0 2 7	4 1 2	1 1 4	0 1 5			
29	0 1 1	0 0 6	1 0 5 8	0 0 9	0 9 6	0 0 9 4	0 4 8	1 4 3	0 0 6 1	0 4 8	1 9 2	5 0 4 2	0 4 6	2 9 9	5 0 4 7	0 3 1	4 1 9	1 2 8	0 1 1			
30	0 1 0	0 0 7	1 0 4 0	0 0 9	0 9 5	0 0 3 1	0 4 8	1 4 1	0 0 1 1	0 4 6	1 9 0	5 0 1 7	0 4 2	2 9 5	5 0 8 7	0 2 3	4 1 3	1 3 7	0 1 0			
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	
03	5 4 2	1 9 5	0 0	7 0 4	3 1 0	0 0	9 0 0	4 7 9	1 5 9	5 1 1	3 4 3	5 5 5	5 9 7	5 2 4	7 4 2	5 1 6						
04	5 2 3	2 9 9	0 4	6 7 8	4 0 5	0 0	8 6 8	5 0 3	1 3 7	4 5 0	3 3 0	4 7 4										
05	5 2 7	2 1 8	0 7																			
06	5 3 3	2 3 3	1 0	6 9 3	3 5 6	0 4	8 8 7	4 9 7	1 4 3	5 6 1	3 2 7	5 4 5										
08	5 0 7	2 7 3	0 7	6 6 3	4 1 7	0 4	8 5 1	5 0 9	1 1 7	4 8 8	3 0 8	4 8 1	5 7 3	5 2 7								
09	5 1 3	3 4 0	0 3	6 6 7	4 2 4	0 5	8 5 6	5 0 8	1 2 4	4 5 7	3 1 4	4 7 3	5 8 1	4 9 1	7 2 7	5 2 4						
10	5 0 5	3 1 9	0 5	6 5 9	4 1 0	0 2	8 5 2	4 2 5	1 2 7	4 1 0	3 2 0	4 7 0	5 8 5	5 0 6	7 3 0	5 2 2						
11	5 0 7	3 3 9	0 4	6 6 1	4 3 9	0 3	8 5 2	4 6 5	1 2 5	4 1 5	3 1 9	4 2 8	5 9 1	4 6 7	7 3 8	4 7 8						
15	5 5 8	2 1 0	0 5	6 9 9	3 4 3	0 4	8 9 4	4 9 2														
16	5 5 8	2 2 2	0 5	6 9 6	3 5 1		8 9 1	5 1 6	1 5 5	4 8 2	3 4 4	5 0 0	6 0 5	5 4 9	7 4 8	5 4 4						
17	5 4 9	2 3 1		7 0 8	3 5 5		8 8 5	5 1 9	1 4 0	5 8 4	3 2 3	5 4 6	5 8 4	5 2 9	7 2 1	5 3 4						
18	5 5 1	2 0 1	0 1	7 1 3	3 1 3	0 7	9 1 0	4 8 5	1 6 4	6 7 7												
22	5 2 6	2 9 0	0 5	6 8 5	3 8 5																	
23	5 2 3	2 9 6	6 7 9	3 9 3			8 7 4	4 5 2	1 4 4	4 6 6	3 3 4	4 9 0	5 9 9	4 9 0								
24	5 5 0	1 9 7	0 5	7 1 2	3 0 2		9 1 1	4 3 6	1 7 4	5 7 4	3 5 6	5 6 0										
25	5 5 4	2 1 2	7 1 4	3 3 9			9 0 7	4 9 8	1 6 1	6 2 2	3 4 5	5 6 5	6 0 1	5 4 7	7 4 4	5 5 8						
26	5 4 2	2 6 1	0 6	7 0 0	3 7 6	0 2	8 9 2	5 2 5	1 4 7	5 3 3	3 3 3	5 3 0	5 4 5	5 1 2								
28	5 4 9	2 5 1	7 0 9	3 5 8	0 4	9 0 2	5 0 3															
29	5 5 5	2 2 0	0 9	7 1 7	3 2 0	0 4	9 1 4	4 6 2	1 7 0	6 6 3	3 4 5	6 2 1										
30	5 5 0	2 2 2	7 1 0	3 6 1			9 0 4	4 7 7	1 6 3	5 8 1	3 4 4	5 8 7	6 0 0	5 8 8								

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF MAY 1949

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

DAY	500 MILLIBARS			400 MILLIBARS			300 MILLIBARS			200 MILLIBARS			150 MILLIBARS			100 MILLIBARS			60 MILLIBARS			
	HHH	TTT	WW	HHH	TTT	WW																
01	5 6 2	1 9 8	7 2 4	3 2 6	0 3	9 2 0	4 9 6	1 7 4	6 5 3	3 5 1	6 0 0	6 0 5	5 7 8	7 4 7	5 7 4							
02	5 4 5	2 1 9	0 4	7 0 6	3 3 8	9 0 3	4 8 0	1 6 2	5 6 4	3 3 2	5 5 0	5 9 1	5 5 8									
04	5 4 0	3 1 3	6 9 5	4 0 8		8 8 5	4 8 5	1 4 8	5 4 4	3 3 2	5 5 0	5 9 1	5 5 8									
05	5 4 4	2 5 7	0 5	7 0 4	3 2 7	0 3	9 0 1	4 7 0	1 5 8	6 2 5	3 3 5	6 0 5	5 6 8	6 0 3	7 2 7	6 0 7						
06	5 3 5	2 4 3	0 5	6 9 5	3 6 2		8 8 8	5 1 6	1 4 3	5 8 5	3 2 3	5 7 6	5 8 0	5 6 9								
07	5 2 8	3 1 2	0 1	6 8 2	4 2 5		8 7 2	5 3 6	1 3 0	5 5 7	3 1 3	5 4 5	5 7 1	5 4 9								
08	5 2 6	2 8 3	0 4	6 8 2	4 0 8	0 1	8 7 2	5 3 2	1 2 9	5 4 4	3 1 3	5 3 3										
09	5 2 5	3 0 6	0 2	6 8 1	3 8 2		8 7 3	5 2 9	1 3 0	5 2 6	3 1 6	5 1 2										
11	5 4 7	2 7 4	0 5	7 0 5	3 6 7		8 9 7	5 1 7	1 5 2	5 6 9	3 3 6	5 2 8	5 9 7	5 4 1	7 4 1	5 3 4	9 2 7	5 0 0				
12	5 5 0	2 4 6	0 4	7 0 8	3 6 3	0 2	9 0 2	4 9 8	1 5 5	6 6 5	3 3 4	5 6 5	5 9 2	5 5 4	7 3 5	5 2 6	9 2 2	5 0 6				
13	5 4 8	2 5 8	0 4	7 0 6	3 7 5	0 2	8 9 8	5 3 3	1 5 1	6 4 0	3 3 0	5 7 1	5 8 7	5 5 1	7 3 0	5 4 3						
14	5 4 9	2 5 9	0 6	7 0 7	3 8 7	0 2	8 9 7	5 3 5	1 5 1	6 1 7	3 3 2	5 7 7	5 8 9	5 5 7	7 3 1	5 5 9	9 1 3	5 5 6				
15	5 5 2	2 2 7	0 9	7 1 2	3 4 7	0 2	9 0 6	5 0 6	1 6 1	6 2 6	3 4 0	5 8 3	5 9 5	5 7 2	7 3 7	5 4 8						
17	5 3 7	2 5 6	1 0	6 9 5	3 7 8	0 4	8 8 6	5 4 2														
19	5 2 9	2 3 5	1 0	6 8 8	3 4 7	0 4	8 8 2	5 1 1	1 4 1	5 1 4	3 2 8	5 1 3	5 9 2	5 1 8	7 3 5	5 4 1						
20	5 3 7	2 6 8	6 9 4	3 8 6	0 1	8 8 6	5 0 5	1 4 9	5 0 7		3 3 6	5 3 9	5 9 7	5 1 0	7 4 3	5 0 5	9 3 0	5 1 5				
21	5 5 3	2 5 1	7 1 1	3 9 0	0 1		9 0 9	5 0 4	1 6 3	6 1 9	3 4 3	5 5 9	6 0 1	5 4 9	7 4 5	5 3 2						
22	5 5 5	2 3 2	7 1 5	3 5 6			9 0 4	5 0 2	1 5 1	6 5 0	3 2 9	5 7 1										
23	5 4 9	2 1 5	0 4	7 1 0	3 3 5	0 2	8 9 9	4 9 5	1 5 3	6 3 8	3 3 1	5 9 4										
24	5 4 6	2 2 9	7 0 5	3 5 4			8 9 8	5 0 2	1 5 3	5 9 9												
25	5 4 5	2 4 1	7 0 5	3 5 3			8 9 3	5 2 7	1 4 7	5 8 6	3 2 9	5 5 4	5 8 5	5 6 7	7 2 7	5 6 7						
26	5 4 3	2 6 2	0 3	7 0 1	3 8 2		8 9 5	5 2 7	1 4 7	5 8 6	3 2 9	5 5 4	5 8 5	5 6 7	7 2 7	5 6 7						
30	5 5 8	2 2 6	0 5	7 1 8	3 4 5		9 1 1	5 2 1	1 6 4	6 7 0	3 4 1	6 1 0	5 9 3	5 9 8	7 3 2	6 1 6	9 1 0	6 3 1				
31	5 4 6	2 4 3	7 0 5																			

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF JUNE 1949

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													
01	9 9 7	0 0 5	1 0 5 5	5 0 2	0 8 3	5 0 0 8	0 3 8	1 2 9	5 0 2 2	0 3 5	1 7 6	5 0 4 5	0 3 3	2 8 0	5 1 0 5	0 2 5	3 0 7	1 7 8	0 1 1							
03	0 0 0	0 0 2	1 0 1 1	0 0 1	0 8 5	5 0 4 0	0 2 8	1 3 0	5 0 6 5	0 2 3	1 7 7	5 0 9 7	0 1 9	2 7 9	5 1 5 3	0 1 4	3 9 3	2 1 4	0 0 8							
05	0 0 7	0 0 4	7 0 5 3	0 0 6	0 9 1	0 0 0 7	0 4 0	1 3 7	0 0 1 2	0 4 4	1 8 5	5 0 3 0	0 3 2	2 9 0	5 0 6 0	0 0 8	4 1 0	1 2 0	0 1 2							
06	0 0 7	0 0 4	4 0 5 3	0 0 6	0 9 1	5 0 1 0	0 3 9	1 3 7	5 0 3 3	0 3 4	1 8 5	5 0 4 8	0 3 3	2 8 9	5 1 0 0	0 2 3	4 0 6	1 7 0	0 1 3							
07	0 0 9	0 0 2	7 0 4 5	0 0 8	0 9 2	5 0 0 2	0 3 4	1 3 8	5 0 1 8	0 2 9	1 8 6	5 0 4 8	0 2 2	2 9 1	5 0 6 5	0 0 8	4 1 0	1 4 7								
15	0 1 4	0 0 2	1 0 3 6	0 1 2	0 9 6	5 0 2 6	0 2 8	1 4 1	5 0 2 8	0 2 3	1 8 9	5 0 7 5	0 1 8	2 9 1	5 1 3 7	0 1 6	4 0 7	1 7 5	0 0 4							
18	0 0 6	0 0 1	3 0 3 2	0 0 5	0 8 9	5 0 7 5	0 2 1	1 3 3	5 0 9 4	0 2 0	1 8 0	5 0 8 5	0 0 9	2 8 3	5 1 0 1	0 0 6	4 0 0	1 9 7								
19	0 0 8	0 0 5	7 0 4 7	0 0 7	0 9 2	5 0 0 4	0 4 0	1 3 8	5 0 0 1	0 4 4	1 8 6	5 0 1 0	0 4 4	2 9 2	5 0 7 6	0 2 9	4 1 0	1 5 1	0 1 5							
20	9 9 7	0 0 3	5 0 4 4	0 0 5	0 8 3	5 0 3 7	0 2 5	1 2 8	5 0 7 4	0 1 9	1 7 5	5 0 8 8	0 1 1	2 7 8	5 1 2 0	0 0 8	3 9 4	2 0 4	0 0 4							
21	9 9 4	0 0 1	4 0 4 1	5 0 4	0 8 0	5 0 4 4	0 2 1	1 2 4	5 0 8 2	0 1 8	1 7 1	5 1 1 1	0 1 5	2 7 5	5 1 6 2	0 0 4	3 8 7	2 4 0								
22	0 0 8	0 0 4	3 0 5 0	0 0 7	0 9 2	0 0 2 0	0 4 6	1 3 0	0 0 0 2	0 4 2	1 8 6	5 0 3 6	0 3 4	2 9 1	5 0 8 4	0 2 3	4 0 4	1 4 0	0 1 0							
23	0 1 9	0 0 4	1 0 5 2	0 1 6	0 1 9	0 0 4 5	0 3 9	1 4 8	0 0 0 8	0 3 1	1 9 6	5 0 3 7	0 2 8	3 0 1	5 0 7 6	0 1 0	4 1 9	1 5 1	0 0 6							
24	0 2 1	0 0 4	3 0 5 1	0 1 7	1 0 3	0 0 2 8	0 3 6	1 4 9	5 0 0 6	0 2 4	1 9 8	5 0 1 8	0 1 4	3 0 3	5 0 7 1	0 1 1	4 2 1	1 6 4	0 0 7							
25	0 2 2	0 0 2	3 0 4 3	0 1 8	1 0 2	5 0 1 0	0 3 4	1 4 8	5 0 2 6	0 2 2	1 9 6	5 0 3 3	0 1 0	3 0 0	5 0 9 0	0 0 7	4 1 6	1 7 0	0 0 4							
26	0 0 9	0 0 3	7 0 5 0	0 0 8	0 9 3	5 0 2 8	0 3 2	1 3 0	5 0 0 6	0 3 4	1 8 6	5 0 2 8	0 1 3	2 9 1	5 1 0 0	0 1 2	4 0 8	1 6 6								
27	0 0 4	0 0 4	6 0 4 8	0 0 4	0 8 9	5 0 1 6	0 3 4	1 3 4	5 0 4 7	0 2 6	1 8 2	5 0 5 6	0 2 6	2 8 5	5 1 1 5	0 1 2	4 0 2	1 8 7	0 0 4							
28	0 0 5	0 0 4	0 0 5 1	0 0 5	0 9 0	0 0 1 8	0 4 7	1 3 6	5 0 3 0	0 3 4	1 8 1	5 0 5 7	0 2 6	2 8 5	5 1 0 5	0 1 8	4 0 3	1 6 5	0 0 8							
29	9 9 8	0 0 2	9 0 4 0	0 0 5	0 5 3	5 0 4 3	0 2 5	1 3 0	5 0 6 4	0 1 8	1 7 7	5 0 9 3	0 0 8	2 7 9	5 1 7 8	0 0 5	3 9 2	2 6 9	0 0 2							
30	9 9 5	0 0 3	4 0 5 0	0 0 5	0 5 3	0 8 2	0 0 2 5	0 4 2	1 2 8	0 0 1 7	0 3 3	1 7 6	5 0 1 7	0 2 3	2 8 1	5 0 8 3	0 1 0	3 9 9	1 4 4	0 0 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														
01	5 3 1	2 7 0	0 5	6 8 7	3 8 6	0 2	8 7 6	5 6 0	1 3 1	5 6 6	3 1 4	5 3 8	5 7 3	5 4 4												
03	5 2 5	2 8 8	0 6	6 8 2	3 9 7	0 2	8 7 2	5 4 1	1 2 7	5 5 7	3 1 1	5 4 1	5 6 9	5 6 3	7 1 0	5 8 0										
05	5 4 7	2 1 0	0 5																							
06	5 4 0	2 7 6	0 6	6 9 7	3 9 2	0 2	8 8 7	5 2 4	1 4 3	5 8 4																
07	5 4 5	2 6 3		7 0 2	3 8 5		8 9 2	5 5 6																		
15	5 4 1	2 7 5	0 2	6 9 7	3 9 7		8 8 8	5 4 0	1 4 2	6 7 3																
18	5 3 2	3 0 2																								
20	5 2 6	2 9 8	0 2	6 8 1	4 2 9		8 7 1	5 0 9	1 3 6	4 7 3	3 2 7	4 7 3	5 9 4	4 9 3	7 4 0	5 0 3										
21	5 1 8	3 0 5		6 7 3	3 9 3		8 6 5	5 0 5	1 2 9	4 8 8	3 1 7	4 9 0	5 8 3	5 0 5	7 2 8	5 1 3										
22	5 4 4	2 3 9	0 6	7 0 3	3 6 0	0 1	8 9 5	5 3 1	1 4 5	6 6 8	3 2 3	5 8 4	5 8 1	5 5 2	7 2 2	5 6 1										
23	5 5 4	2 5 8	0 5	7 1 3	3 6 6	0 2	9 0 7	5 1 0	1 5 8	6 6 7	3 3 4	6 1 3	5 9 9	5 8 1	7 3 9	5 9 9							9 2 1	5 8 0		
24	5 5 5	2 4 7	0 3	7 1 3	3 8 1	0 2	9 0 4	5 2 9	1 5 6	6 5 3	3 3 4	5 8 4	5 9 1	5 7 8	7 3 1	5 8 2							9 1 2	5 8 3		
25	5 5 2	2 8 0	0 3	7 0 8	3 9 2	0 2	8 9 8	5 6 4	1 4 7	6 2 4	3 2 8	5 7 7	5 8 3	5 8 8	7 2 3	5 9 2										
26	5 4 2	2 7 4		7 0 0	3 9 1	0 1	8 9 0	5 4 0	1 4 2	6 1 8	3 2 1	5 8 2	5 7 6	6 9 4	7 1 7	5 6 7										
27	5 3 5	2 7 5		6 9 2	4 0 6		8 8 1	5 5 0	1 3 7	5 5 0	3 2 2	5 5 0	5 8 2	5 2 6												
28	5 3 7	2 7 0	0 4	6 9 7	3 7 8		8 8 7	5 4 2	1 3 9	5 9 6	3 2 1	5 6 2	5 7 7	5 7 8	7 1 8	5 7 8										
29	5 2 2	3 0 9		6 7 4	4 0 0		8 6 5	5 2 5	1 2 7	5 4 0	3 1 3	5 3 2	5 7 4	5 5 5	7 1 5	5 7 7										
30	5 3 5	2 4 6		6 9 3	3 7 4		8 8 4	5 5 1	1 3 6	5 8 6	3 1 8	5 5 1	5 7 8	5 5 1	7 2 0	5 5 8										

**RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF JULY 1949**

DAY	SURFACE			1000 MB			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 8	0 0 4	9 0 5 1	5 1 8	0 6 8	0 0 0 6	0 4 0	1 1 3	5 0 2 8	0 3 3	1 6 1	5 0 6 4	0 2 7	2 6 4	5 1 1 0	0 1 8	3 8 1	1 6 9	0 1 5			
02	9 8 5	0 0 2	3 0 4 2	5 1 2	0 7 5	5 0 2 6	0 3 0	1 1 8	5 0 4 8	1 6 5	5 0 7 2	0 2 6	2 6 8	5 1 3 8	0 1 3	3 8 4	2 0 6	0 0 4				
03	9 9 4	0 0 1	6 0 3 8	5 0 4	0 8 0	5 0 3 7	0 2 9	1 2 5	5 0 4 0	0 2 8	1 7 5	5 0 5 5	0 1 3	2 7 7	5 1 0 4	0 0 6	3 9 4	1 5 9				
04	9 7 4	0 0 5	1 0 5 4	5 2 1	0 6 5	0 0 1 3	0 4 1	1 1 0	5 0 1 5	0 3 4	1 5 9	5 0 3 8	0 1 8	2 6 3	5 1 0 6	0 1 4	3 7 4	1 5 9	0 1 2			
05	9 6 8	0 0 4	3 0 5 0	5 2 6	0 7 4	5 0 0 5	0 3 7	1 0 5	5 0 3 5	0 3 2	1 5 3	5 0 5 9	0 2 9	2 6 7	5 1 1 9	0 2 0	3 7 3	2 0 1	0 1 0			
06	9 7 0	0 0 2	6 0 4 5	5 2 4	0 6 1	5 0 1 0	0 3 7	1 0 6	5 0 3 9	0 3 2	1 5 3	5 0 7 7	0 2 4	2 5 6	5 1 4 0	0 1 8	3 7 1	2 2 3	0 0 8			
07	9 9 0	0 0 0	3 0 3 7	5 0 7	0 7 8	5 0 6 0	0 2 3	1 2 3	5 0 6 2	0 2 3	1 7 0	5 0 8 5	0 1 9	2 7 2	5 1 4 7	0 0 8	3 8 8	2 1 1	0 0 5			
08	9 7 8	0 0 4	1 0 5 2	5 1 7	0 6 8	5 0 1 0	0 3 9	1 1 3	5 0 5 5	0 3 5	1 6 1	5 0 5 5	0 2 9	2 5 5	5 1 0 8	0 2 1	3 8 2	1 7 8	0 1 2			
09	9 6 9	0 0 2	3 0 4 5	5 2 6	0 6 0	5 0 0 8	0 3 5	1 0 5	5 0 5 5	0 2 9	1 5 3	5 0 6 6	0 2 3	2 5 6	5 1 3 8	0 1 7	3 7 1	2 3 6	0 0 6			
10	9 8 7	0 0 1	8 0 2 8	5 1 0	0 7 6	5 0 8 0	0 1 6	1 2 0	5 1 1 7	0 1 4	1 6 6	5 1 4 7	0 1 3	2 6 5	5 2 2 4	0 0 6	3 7 6	2 9 5	0 0 7			
11	9 8 6	0 0 2	0 3 3 9	5 1 1	0 7 4	5 0 2 9	0 3 1	1 1 9	5 0 5 4	0 2 2	1 6 6	5 1 0 3	0 2 0	2 6 7	5 1 5 9	0 1 4	3 8 1	2 6 0				
12	9 9 0	0 0 4	6 0 5 5	5 0 8	0 7 8	0 0 0 4	0 4 3	1 2 3	5 0 2 5	0 5 8	1 7 1	5 0 5 2	0 3 2	2 7 5	5 1 1 7	0 2 2	3 9 1	1 8 7	0 1 4			
13	0 0 8	5 0 6 0	6 2 3	0 0 7	0 9 0	5 0 8 6	0 1 8	1 3 4	5 1 2 4	0 1 7	1 8 0	5 1 5 8	0 1 4	2 8 1	5 1 6 1	0 0 4	3 9 7	1 7 3	0 0 9			
14	0 1 6	0 0 3	4 0 4 9	0 1 3	0 9 8	5 0 0 4	0 4 2	1 4 4	5 0 2 5	0 3 8	1 9 1	5 0 3 9	0 3 7	2 9 6	5 0 9 9	0 2 7	4 1 4	1 5 5	0 1 4			
15	0 1 7	0 0 4	8 0 5 3	0 1 4	0 9 9	0 0 0 0	0 4 3	1 4 5	5 0 2 5	0 3 8	1 9 3	5 0 4 7	0 3 3	2 9 7	5 1 0 9	0 2 3	4 1 3	1 8 1	0 0 7			
16	0 1 3	0 0 4	9 0 5 4	0 1 1	0 9 7	0 0 1 6	0 3 0	1 4 2	5 0 2 4	0 2 6	1 9 0	5 0 6 8	0 2 2	2 9 5	5 0 8 1	0 1 5	4 1 2	1 5 6	0 0 6			
17	9 9 9	0 0 5	2 0 5 4	5 0 0	0 8 5	5 0 1 7	0 3 3	1 3 0	5 0 1 5	0 1 9	1 7 8	5 0 3 2	0 2 2	5 1 1 7	5 1 1 1	0 1 1	3 9 8	2 0 4	0 0 5			
18	0 0 2	0 0 1	9 0 3 8	5 0 2	0 8 6	5 0 5 4	0 2 3	1 3 0	5 0 8 4	0 1 7	1 7 7	5 1 1 5	0 0 8	2 8 0	5 1 2 8	0 1 1	3 9 6	1 8 9	0 0 4			
19	9 9 2	0 0 2	4 0 4 7	5 0 7	0 7 8	5 0 2 6	0 2 4	1 2 3	5 0 6 3	0 1 9	1 7 1	5 0 9 2	0 1 6	2 7 2	5 1 4 3	0 1 0	3 8 9	1 7 4				
20	0 0 7	0 0 4	1 0 5 2	5 0 0	0 9 1	0 0 1 6	0 2 5	1 3 8	5 0 3 9	0 1 7	1 8 7	0 0 0 6		2 9 2	5 0 6 4		4 1 1	1 3 0				
21	9 9 7	0 0 0	4 0 2 5	5 0 2	0 8 1	5 0 6 9	0 1 7	1 2 6	5 1 0 9	0 1 3	1 7 2	5 1 4 6	0 1 2	2 7 4	5 1 2 5		3 9 0	1 8 6				
22	0 0 5	0 0 2	8 0 4 1	5 0 5	0 8 9	5 0 5 3	0 2 5	1 3 5	5 0 2 5	0 3 3	1 8 1	5 0 4 4	0 3 1	2 8 5	5 1 0 0	0 2 1	4 0 2	1 8 0	0 1 3			
23	0 0 8	0 0 4	6 0 5 2	5 0 7	0 9 2	5 0 5 0	0 1 8	1 3 7	5 0 3 5	0 2 3	1 8 5	5 0 5 5	0 2 3	2 8 9	5 0 8 7	0 1 4	4 0 7	1 8 4	0 0 6			
24	9 9 8	0 0 4	1 0 5 0	5 0 1	0 8 4	5 0 2 7	0 2 9	1 2 9	5 0 5 8	0 2 7	1 7 6	5 0 8 2	0 2 3	2 7 9	5 1 3 7	0 1 5	3 9 5	1 8 3	0 1 1			
25	9 9 4	5 0 2	8 0 3 0	5 0 4	0 7 9	5 0 9 5	0 1 9	1 2 3	5 1 2 5	0 1 5	1 6 9	5 1 4 8	0 1 3	2 6 8	5 2 3 8	0 0 5	3 7 8	3 5 7	0 0 2			
26	9 8 6	0 0 5	3 0 5 0	5 1 1	0 7 4	5 0 2 6	0 2 8	1 1 9	5 0 3 2	0 3 1	1 6 7	5 0 5 8	0 2 7	2 7 1	5 1 3 2	0 1 2	3 8 6	2 0 1	0 1 0			
27	0 0 7	5 0 3 8	1 0 1 8	0 0 5	0 8 8	5 1 1 5	0 1 1	1 3 2	5 1 5 5	0 0 9	1 7 7	5 1 9 8	0 0 8	2 7 5	5 2 0 4	0 0 5	3 9 1	1 7 3				
28	0 1 1	5 0 1 7	1 0 7 0	3 0 4	0 0 9	0 9 2	5 0 9 6	0 1 9	1 3 6	5 1 2 4	0 1 6	1 8 2	5 1 5 4	0 1 2	2 8 1	5 1 8 4	0 1 0	3 9 5	2 3 8	0 0 7		
29	0 0 7	5 0 1 6	6 0 2 7	0 0 5	0 8 9	5 0 9 8	0 1 5	1 3 3	5 1 3 7	0 1 2	1 7 8	5 1 6 9	0 0 9	2 7 8	5 1 8 1	0 0 9	3 9 1	2 3 2				
31	0 0 6	5 0 0 1	1 0 3 2	0 0 5	0 8 9	5 0 5 7	0 1 8	1 3 4	5 0 5 3	0 1 1	1 8 1	5 0 6 7	0 1 0	2 8 5	5 1 1 8	0 0 9	4 0 1	2 1 4	0 0 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 1 6	2 6 6	0 7	6 7 3	3 9 3	0 2	8 6 3	5 5 0	1 2 5	5 1 2	3 1 1	5 2 3	5 7 2	5 5 3	7 3 0	5 2 6								
02	5 1 7	2 7 9		6 7 3	4 1 5		8 6 3	5 1 1	1 2 9	5 7 2	3 1 9	4 8 3	5 8 5	4 9 7	5 3 3	7 3 6	5 3 3							
03	5 3 0	2 1 6	0 5	6 9 1	3 1 9	0 2	8 8 8	4 6 7	1 4 8	5 2 7	3 3 3	5 5 9	5 9 2											
04	5 1 3	2 7 9	0 6	6 7 0	3 7 9	0 4	8 6 3	4 9 3	1 2 6	4 9 2														
05	5 0 5	3 0 4	0 4	6 5 9	4 2 9		8 5 8	4 8 6	1 1 5	4 6 1	3 0 7	4 6 6												
06	5 0 2	3 2 0	0 4	6 5 5	4 2 4		8 4 6	5 0 1	1 2 5	5 1 2														
07	5 2 0	3 1 5	0 2	6 7 5	4 1 8	0 1	8 6 3	5 5 2	1 2 6	4 7 4	3 1 6	4 7 4	5 8 6	4 6 3										
08	5 1 6	2 7 7	0 5	6 7 3	4 0 0	0 2	8 6 2	5 6 1	1 2 3	5 0 3	3 1 1	4 8 1												
09	5 0 1	3 4 3	0 2	6 5 4	4 2 4		8 4 5	4 9 7	1 1 2	4 8 0	3 0 4	4 5 4	5 7 4	4 6 6	7 2 1	4 6 6								
10	5 0 5	3 7 1	0 2	6 5 6	4 5 8		8 7 4	4 9 2	1 4 1	4 8 8	3 3 0	4 8 5												
11	5 1 1	3 0 0		6 8 3	4 4 9		8 7 4	5 0 5	1 3 5	5 2 3	3 2 5	5 2 2	5 8 7	5 0 9	7 3 2	5 0 4								
12	5 2 5	2 7 1	0 9	6 8 3	3 8 5	0 3	8 7 4	5 5 4	1 2 7	5 7 3	3 1 1	5 2 5												
13	5 3 1	2 5 5	0 6	6 8 9	3 8 3	0 2	8 8 1	5 3 2	1 3 3	6 0 3	3 1 5	5 5 6	5 7 5	5 3 6	7 1 8	5 4 8	9 0 2	5 6 0						
14	5 4 9	2 6 2	0 5	7 0 7	3 6 2	0 4	8 9 9	5 2 3	1 5 3	6 3 0	3 3 4	5 4 4	5 9 8	5 3 8	7 4 2	5 2 3								
15	5 4 8	2 3 8	0 4	7 0 7	3 7 5	0 2	8 9 8	5 4 2	1 5 4	5 5 6	3 3 8	5 4 1	5 9 8	5 3 0	7 4 1	5 2 0	9 2 8	4 9 8						
16	5 4 7	2 6 5	0 3	7 0 4	3 7 1		8 9 7	5 1 9																

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF AUGUST 1949

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 3	0 0 0	7 0 3 7	0 0 3	0 8 6	5 0 6 0	0 2 5	1 3 1	5 0 6 4	0 2 2	1 7 8	5 0 8 3	0 2 2	2 8 1	5 1 5 0	0 1 6	3 9 6	2 2 1	0 0 6			
02	9 9 3	0 0 2	1 0 4 5	5 0 5	0 7 9	5 0 3 8	0 2 9	1 2 4	5 0 6 4	0 2 5	1 7 1	5 0 7 3	0 2 4	2 7 4	5 1 0 9	3 9 1	1 7 7					
03	9 8 4	0 0 3	8 0 5 1	5 1 2	0 7 1	0 1 1	0 4 5	1 1 7	5 0 1 8	0 3 7												
04	9 7 9	0 0 0	9 0 5 5	5 1 6	0 6 7	5 0 5 4	0 2 5	1 1 2	5 0 7 0	0 2 2												
05	0 0 7	0 0 3	8 0 4 8	0 0 6	0 9 1	0 0 2 3		1 3 7	5 0 0 4													
06	9 9 1	0 0 5	6 0 5 7	5 0 7	0 7 9	5 0 0 1	0 4 9	1 2 5	5 0 3 1	0 4 3												
07	9 9 0	0 0 4	5 0 5 1	5 0 7	0 7 8	5 0 0 2	0 3 8	1 2 3	5 0 3 3	0 3 4												
08	0 0 5	0 0 2	6 0 4 3	0 0 4	0 8 8	5 0 6 0	0 2 2	1 3 2	5 0 7 7	0 1 7												
09	9 9 4	0 0 5	3 0 5 4	5 0 1	0 8 1	0 0 1 7	0 4 0	1 2 7	5 0 3 2	0 2 3												
10	9 9 5	0 0 0	1 0 5 6	5 0 3	0 8 3	0 0 7 2	0 5 7	1 3 0	5 0 3 6	0 4 7												
11	9 8 1	0 0 4	4 0 4 8	5 1 5	0 7 0	5 0 0 2	0 3 6	1 1 6	5 0 4 0	0 2 5												
12	9 9 2	0 0 2	7 0 5 5	5 0 6	0 7 9	5 0 4 4	0 2 5	1 2 3	5 0 8 0	0 1 9												
13	9 9 5	0 0 1	4 0 4 1	5 0 5	0 8 1	5 0 7 5	0 2 4	1 2 5	5 0 8 0	0 2 2												
15	0 0 5	0 0 0	2 0 2 9	0 0 5	0 8 8	5 0 7 5	0 2 2	1 3 2	5 1 0 5	0 1 9												
16	0 0 1	0 0 1	7 0 3 4	0 0 2	0 8 6	5 0 5 4	0 2 3	1 3 0	5 0 8 8	0 2 0												
17	0 0 2	5 0 0	8 0 2 6	0 0 2	0 8 5	5 0 6 6	0 2 0	1 2 9	5 1 2 5	0 1 6												
18	0 0 3	0 0 1	3 0 3 7	0 0 5	0 8 7	5 1 1 6	0 2 8	1 3 2	5 0 7 0	0 2 3												
19	9 9 4	0 0 4	2 0 5 2	5 0 4	0 8 1	0 0 0 8	0 4 0	1 2 7	5 0 0 7	0 3 7												
20	9 7 6	0 0 4	0 0 5 0	5 1 9	0 6 6	0 0 0 4	0 4 0	1 1 2	5 0 3 3	0 3 1												
21	9 6 5	0 0 0	9 4 2	5 2 8	0 5 6	5 0 1 9	0 3 6	1 0 2	5 0 4 5	0 2 9												
22	9 8 4	0 0 0	4 0 2 6	5 1 2	0 7 2	5 0 6 1	0 1 8	1 1 7	5 1 0 2	0 1 8												
23	9 8 7	5 0 2	4 0 2 5	5 1 0	0 7 3	5 0 8 8	0 1 7	1 1 7	5 1 2 9	0 1 4												
24	9 8 9	0 0 3	9 0 4 7	5 0 8	0 7 7	5 0 2 6	0 3 2	1 2 2	5 0 5 6	0 2 6												
25	9 9 9	0 0 0	3 0 2 7	5 0 0	0 8 3	5 0 7 8	0 1 8	1 2 7	5 1 0 9	0 1 7												
26	9 8 7	0 0 4	8 0 5 6	5 1 0	0 7 5	5 0 1 1	0 4 3	1 2 1	5 0 2 5	0 3 3												
28	9 8 7	5 0 0	8 0 2 8	5 1 0	0 7 4	5 0 7 0	0 1 7	1 1 8	5 1 1 0	0 1 4												
29	0 0 0	0 0 3	7 0 4 1	0 0 1	0 8 5	5 0 2 7	0 2 8	1 3 0	5 0 6 4	0 2 3												
30	9 9 9	0 0 3	9 0 4 2	5 0 0	0 8 4	5 0 2 9	0 2 9	1 2 9	5 0 3 8	0 2 7												
31	9 8 7	0 0 4	1 0 5 0	5 1 0	0 7 5	5 0 1 6	0 3 4	1 2 0	5 0 4 0	0 3 0												
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 2 7	3 1 1	0 3	6 8 1	4 3 9		8 6 7	5 8 5		1 1 5	6 5 2		2 9 4	5 9 5	5 4 6	5 9 8	6 8 6	5 9 8				
02	5 2 4	2 6 4		6 7 8	4 1 1		8 6 8	5 5 9		1 2 1	5 2 4		3 0 3	5 7 4								
04	5 0 9	3 1 9	0 3	6 6 4	4 1 5		8 5 3	5 4 2		1 1 6	5 0 6		3 0 3	5 0 5	5 6 8	5 0 8						
05	5 3 7	2 7 6		6 9 3	3 9 3		8 8 4	5 4 4		1 3 4	6 5 6		3 1 4	5 8 6	5 6 8	5 6 7	7 0 9	5 7 6	8 9 1	5 7 1		
06	5 3 2	2 4 4	0 8	6 9 1	3 5 6	0 3	8 8 4	5 2 2		1 3 9	5 9 8		3 1 9	5 8 9	5 7 2	5 8 1	7 1 4	5 6 2	8 9 6	5 6 1		
08	5 3 3	2 7 9	0 7	6 9 0	3 9 0	0 3	8 8 1	5 4 8		1 3 0	6 6 9		3 0 6	6 0 3	5 6 2	5 5 2						
09	5 3 5	2 6 0	0 5	6 9 2	3 9 4	0 1	8 8 1	5 4 9		1 3 6	5 6 1		3 1 9	5 4 9	5 7 9	5 4 0	7 2 2	5 3 7				
10	5 4 3	2 0 2	0 6	7 0 4	3 4 4	0 2	8 9 8	5 0 7		1 4 9	7 2 0		3 2 4	6 1 0	5 7 7	5 9 2	7 1 6	5 6 6				
11	5 1 3	3 0 5		6 7 0	3 9 0		8 6 1	5 2 1		1 2 3	5 2 1		3 1 0	5 2 4	5 7 1	5 3 3	7 1 4	5 4 5				
12	5 1 6	3 4 5	0 3	6 6 8	4 5 0		8 5 8	4 7 7		1 2 8	4 3 6		3 1 9	4 7 3	5 8 7	4 9 6	7 3 1	5 2 3	9 1 7	5 4 1		
13	5 1 8	3 4 4	0 3	6 6 8	4 9 9		8 5 5	5 0 8		1 2 1	4 6 4		3 1 1	4 9 0	5 7 4	5 2 7	7 1 9	5 1 8				
15	5 3 0	3 0 7	0 3	6 8 6	3 9 9	0 1	8 7 6	5 4 0		1 2 9	6 0 2		3 0 9	5 7 7	5 6 7	5 4 4	7 1 1	5 2 9	8 9 7	5 1 0		
16	5 3 0	2 9 0	0 6	6 8 5	4 1 8		8 7 3	5 7 8		1 2 7	5 5 4		3 1 1	5 2 4								
17	5 1 3	3 5 8	0 2	6 6 5	4 4 2		8 5 4	5 2 8		1 1 6	5 0 0											
19	5 3 4	2 4 0	0 9	6 9 3	3 6 4	0 3	8 8 7	4 8 6		1 4 6	5 5 4		3 3 1	5 2 4	5 9 4	5 0 3						
20	5 1 0	3 1 5		6 6 5	4 2 0		8 5 3	5 7 0		1 1 0	5 4 8		2 9 5	5 3 0	5 5 9	4 9 8	7 0 6	4 5 5				
21	5 0 4	2 7 0	0 6	6 6 1	4 0 0	0 2	8 5 0	5 3 4		1 0 9	5 3 7		2 9 3	5 5 3	5 5 2	5 4 4						
22	5 0 0	4 1 7		6 4 9	4 8 4		8 3 7	5 0 6		1 0 0	5 2 3		2 8 5	5 3 6	5 4 6	5 1 7	6 9 1	5 1 5				
23	4 9 9	3 7 3	0 2	6 5 1	4 1 4		8 4 4	4 6 9		1 1 1	4 8 4		3 0 0	5 0 1	5 6 3	5 1 5	7 0 7	5 3 7				
24	5 2 0	2 9 0	0 5	6 7 6	3 9 3	0 2	8 6 6	5 3 4		1 1 5	6 8 8		2 9 1	6 2 4	5 4 1	6 2 4						
25	5 2 0	3 0 3	0 5	6 7 5	4 2 6		8 6 3	5 7 8														
26	5 2 5	2 6 3	0 5	6 8 3	3 7 8	0 3	8 7 3	5 4 3		1 2 2	7 0 4		2 9 6	6 5 6	5 4 0	6 7 3						
28	5 0 3	3 8 8		6 5 3	4 7 0		8 4 0	5 6 7		0 9 4	5 9 7		2 7 3	5 9 6	5 2 7	5 8 3	6 6 7	5 7 6				
29	5 3 2	2 4 5	0 8	6 9 0	3 6 4	0 3	8 8 2	5 4 2		1 3 0	7 5 0											
30	5 2 8	2 9 1	0 3	6 8 4	4 0 6		8 7 3	5 6 3		1 2 5	5 8 2		3 0 5	5 9 1	5 5 8	5 9 8	6 9 7	5 8 2				
31	5 2 2	2 5 5	0 8	6 8 0	3 6 8	0 4	8 7 3	5 1 9		1 2 7	6 0 0		3 0 8	5 7 2	5 6 3	5 8 7	7 0 4	5 7 7				

**RESULTS OF RADIOSONDE OBSERVATIONS AT
FOR THE MONTH OF MACQUARIE ISLAND
SEPTEMBER 1949**

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	007	001	6028	006	090	5068	018	134	5113	016	181	5111	005	282	5190	395	247	002				
02	004	004	7049	004	089	0036	044	135	0024	023	184	5014	022	289	5077	407	171	007				
03	000	005	1056	001	087	0038	054	133	0030	053	182	5003	046	288	5055	031	407	134	016			
04	004	001	8030	004	087	5061	022	132	5094	019	178	5125	016	280	5148	004	395	217				
05	015	009	5074	013	099	0009	044	145	5018	039	193	5042	030	297	5100	020	414	195	011			
06	007	004	8052	006	092	5007	039	137	5004	038	186	5040	032	290	5109	006	407	157	010			
07	008	004	9054	007	093	0006	043	138	5012	039	186	5040	032	290	5109	006	401	152	012			
08	998	005	4052	501	085	0013	036	130	5020	029	179	5027	012	283	5080	01R	407	197	010			
09	994	004	4050	504	081	5015	034	126	5014	034	174	5023	035	280	5052	034	400	102	025			
10	991	003	4050	507	079	0049	054	125	5016	045	174	5013	036	279	5054	033	399	122	021			
11	002	002	5031	002	086	5056	021	131	5096	018	177	5123	013	278	5170	005	392	232				
12	000	004	1048	001	085	5012	031	131	5046	022	178	5083	017	280	5157	013	395	200				
13	993	001	1029	505	079	0000	035	124	5035	028	172	5064	023	275	5130	017	391	196	004			
14	000	003	7042	001	085	5039	038	130	5048	019	178	5175	014	281	5095	006	398	202	006			
15	000	004	6054	001	085	0003	041	131	5020	033	179	5047	027	283	5121	006	399	203	004			
16	013	001	4034	011	096	0004	009	141	5002	010	190	5028	012	294	5095	014	411	182	010			
17	001	004	5047	001	087	0050	050	133	5010	010	181	5019	041	287	5074	031	405	151	018			
18	001	002	4036	001	085	5052	028	130	5091	021	177	5114	013	279	5114	005	396	171	005			
19	986	002	2043	511	074	5033	035	131	5071	011	277	5105	022	267	5178	014	381	255	008			
20	980	000	4056	516	070	0011	047	116	5011	011	042	164	5034	038	269	5060	035	388	145	021		
21	992	001	3040	506	078	5056	028	122	5080	023	169	5130	017	269	520K	007	381	297	004			
23	978	504	7025	517	065	5106	019	109	5151	014	155	5178	012	253	5264	006	363	350	003			
24	990	003	3049	507	077	5010	039	123	5006	015	171	5023	041	276	5179	030	394	156	019			
25	977	002	3039	518	066	5039	031	111	5071	027	158	5107	021	259	5162	009	375	189	013			
26	967	500	8029	526	057	5065	028	102	5109	020	148	5151	016	248	5209	010	361	235	007			
27	971	503	9019	523	060	5091	017	104	5130	015	150	5166	013	249	5245	008	356	335	004			
28	993	502	2024	505	078	5084	022	122	5127	018	168	5157	014	269	5164	004	384	214	004			
29	003	002	7041	030	088	5001	042	133	5012	041	181	5044	035	286	5077	027	404	155	018			
30	993	005	6046	505	080	5012	036	125	5038	024	173	5083	021	275	5161	015	390	210	004			
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	526	297	02	682	396	01	873	524	131	559	315	551	626	712	625	889	631					
02	543	222	10	703	346	04	898	487	155	681	526	631	575									
03	544	215	08	705	341	03	R99	503	152	609	332	575										
04	527	319		681	441		R70	496	136	490												
05	548	282	05	704	397	02	894	554	148	562	352	533	594	495	740	502						
06	542	251	05	700	378	02	891	545	141	626	322	552	582	522	727	496						
07	541	256	07	699	390	03	R90	540	138	712	310	644	564	544	708	486						
08	537	237	10	695	351	04	889	527	140	625	320	549										
09	537	194	12	699	307	05	897	467	154	580	337	543	599	502	745	502						
10	535	227	10	695	350	03	889	471	153	508	340	506	604	518								
11	523	323	02	676	454		865	516	127	504	315	487	579	495	725	500						
12	528	291	03	684	405		R72	548	131	519	319	497	584	476								
13	524	294	03	680	394	01	R73	476	141	460	332	461										
14	531	290	03	685	417		R76	537	141	452	333	467	603	438	746	430	940	438				
15	532	281	02	689	395	01	880	523	141	480												
16	545	270	03	702	382	02	894	522	153	494												
17	539	264	09	698	356	04	892	496	149	550	335	506	600	483	748	461	939	461				
18	531	243	05	689	368	02	881	535	137	524	319	448	590	422								
19	510	366	03	664	409		R57	458	127	451	319	448	590									
20	523	252	10	681	367	04	850	470	118	465	309	463	577	459	720	423						
21	508	405	02	659	446	02	860	500	140	492	351	456	602	439	751	450						
23	489	381	03	642	416	01	880	555	04	860	507	127	434	322	421	596	426	747	417	940	437	
24	529	251	10	687	355		860	500	140	492	351	456	602	439	751	450						
25	509	260	10	667	367	04	860	507	127	434	322	421	596	426	747	417						
26	492	522	05	647	405	02	869	542	126	533	314	472	583	469								
27	485	383	03	638	464		R23	526	087	463												
28	516	315	02	672	408	02	860	566	124	476												
29	539	260	08	695	378	02	R88	529														
30	522	293	05	678	399	03	R69	542	126	533	314	472	583	469								

**RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF OCTOBER 1949**

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 9 3	0 0 5	6 0 5 5	5 0 5	0 8 0	5 0 0 5	0 4 2	1 2 6	5 0 2 9	0 3 8	1 7 4	5 0 6 0	0 3 1	2 7 7	5 1 2 5	0 3 1	3 9 3	2 1 5	0 1 1				
02	0 0 3	0 0 5	1 0 3 8	0 0 3	0 8 8	5 0 2 9	0 3 1	1 3 3	5 0 6 5	0 2 6	1 8 0	5 1 0 0	0 2 2	2 8 1	5 1 5 4	0 2 4	3 9 7	2 0 1	0 0 6				
03	0 0 0	0 0 4	4 0 3 8	0 0 1	0 8 5	5 0 2 8	0 3 5	1 3 1	5 0 6 0	0 2 9	1 7 8	5 0 7 3	0 2 4	2 8 1	5 1 0 8	0 2 4	3 9 8	1 7 5	0 1 6				
04	0 0 2	0 0 2	1 0 3 0	0 0 2	0 8 6	5 0 4 5	0 1 4	1 3 1	5 0 8 1	0 1 1	1 7 7	5 1 2 2	0 1 0	2 7 9	5 1 1 4	0 0 6	3 9 7	1 5 8	0 0 5				
05	0 0 1	0 0 4	5 0 4 5	0 0 1	0 8 6	5 0 2 9	0 2 7	1 3 1	5 0 7 5	0 2 3	1 7 9	5 0 3 3	0 1 6	2 8 3	5 1 1 0	0 1 7	4 0 0	1 9 0	0 1 1				
06	9 9 6	0 0 3	7 0 4 7	5 0 3	0 8 2	5 0 1 1	0 3 6	1 2 8	5 0 2 9	0 3 4	1 7 5	5 0 5 4	0 2 8	2 7 9	5 1 1 0	0 1 9	3 9 6	1 7 7	0 1 0				
07	0 1 7	0 0 2	8 0 3 8	0 1 4	0 9 8	5 0 6 1	0 2 5	1 4 3	5 0 1 3	0 0 9	1 9 1	5 0 3 9	2 9 5	5 0 9 5	0 1 1	4 1 3	1 5 0	0 0 5					
08	0 1 2	0 0 3	3 0 5 5	0 1 0	0 9 6	5 0 1 5	0 3 6	1 4 1	5 0 5 4	0 3 1	1 8 9	5 0 2 9	0 0 8	2 9 4	5 0 5 5	0 0 9	4 1 4	1 2 0	0 1 0				
09	0 0 0	0 0 6	8 0 6 1	0 0 1	0 8 7	0 0 2 4	0 4 8	1 3 3	0 0 1 0	0 4 6	1 8 2	5 0 0 5	0 4 4	2 8 7	5 0 6 8	0 2 8	4 0 6	1 3 5	0 1 6				
10	0 0 5	0 0 4	8 0 5 3	0 0 3	0 8 9	0 0 0 6	0 4 3	1 3 4	5 0 1 1	0 4 1	1 8 2	5 0 3 6	0 3 6	2 8 7	5 0 8 2	0 0 5	4 0 5	1 5 2					
11	9 9 7	0 0 3	2 0 4 7	5 0 2	0 8 3	5 0 0 1	0 4 3	1 2 6	5 0 2 1	0 3 8	1 7 7	5 0 2 9	0 3 1	2 8 2	5 0 7 5	0 1 1	4 0 0	1 2 3					
12	0 1 0	0 0 2	3 0 3 4	0 0 9	0 9 2	5 0 3 2	0 0 7	1 3 8	5 0 6 3	0 0 6	1 8 5	5 0 6 5	0 0 6	2 8 9	5 0 6 8	0 1 8	4 0 8	1 2 8	0 0 8				
13	0 0 7	0 0 5	2 0 4 5	0 0 6	0 9 1	5 0 3 8	0 3 1	1 3 6	5 0 0 5	0 2 6	1 8 5	5 0 1 3	0 1 8	2 9 0	5 0 2 4	0 0 9	4 1 1	0 8 9	0 1 0				
14	9 9 4	0 0 6	8 0 6 2	5 0 4	0 8 2	0 0 3 4	0 5 3	2 8	0 0 1 1	0 4 7	1 7 6	5 0 1 3	0 2 3	2 8 2	5 0 4 6	0 0 9	4 0 1	1 3 0	0 1 0				
15	9 8 8	0 0 5	7 0 6 3	5 0 1	0 7 7	0 0 3 0	0 5 2	1 2 3	0 0 0 2	0 4 4	1 7 1	5 0 3 0	0 3 9	2 7 6	5 0 7 5	0 2 8	3 9 4	1 4 8	0 0 9				
16	9 8 5	0 0 5	6 0 5 6	5 1 2	0 7 4	5 0 0 3	0 3 8	1 2 0	5 0 0 2	0 0 2	1 6 8	5 0 0 2	0 1 1	2 7 4	5 0 4 9	0 1 0	3 9 4	1 1 9	0 0 7				
17	9 8 5	0 0 5	1 0 5 6	5 1 1	0 7 4	0 0 3 2	0 5 0	1 2 0	0 0 1 4	0 4 5	1 6 9	5 0 1 1	0 3 9	2 7 4	5 0 4 8	0 2 6	3 9 4	1 3 2	0 1 3				
18	0 0 2	0 0 1	9 0 2 4	0 0 2	0 8 6	5 0 4 4	0 2 2	1 3 1	5 0 9 3	0 1 8	1 7 9	5 1 2 7	0 1 7	2 7 9	5 1 4 9	0 0 4	3 9 5	1 7 0	0 0 7				
19	0 0 3	0 0 5	0 0 3 6	0 0 3	0 8 7	5 0 4 8	0 2 4	1 3 2	5 0 8 8	0 1 9	1 7 9	5 0 8 7	0 0 6	2 8 1	5 1 2 4	0 0 6	3 9 8	1 6 4	0 1 8				
20	0 0 1	0 0 5	0 0 4 9	0 0 1	0 8 6	5 0 2 6	0 2 9	1 3 1	5 0 4 0	0 2 2	1 7 9	5 0 6 3	0 1 8	2 8 2	5 1 2 0	0 1 1	3 9 8	1 8 4	0 0 7				
21	9 9 4	0 0 5	0 0 5 1	5 0 5	0 8 1	5 0 1 4	0 3 7	1 2 6	5 0 4 9	0 3 2	1 7 4	5 0 5 1	0 2 2	2 7 8	5 1 0 8	0 0 6	3 9 5	1 7 3	0 0 5				
22	9 9 2	0 0 5	4 0 5 0	5 1 6	0 7 1	5 0 0 9	0 3 6	1 1 6	5 0 5 4	0 2 1	1 6 3	5 0 8 4	0 1 3	2 6 6	5 1 6 0	0 1 6	3 8 0	2 2 5	0 1 0				
23	0 0 0	0 0 2	7 0 3 7	0 0 1	0 8 5	5 0 5 6	0 2 6	1 2 9	5 0 9 9	0 2 2	1 7 6	5 1 3 4	0 1 4	2 7 6	5 2 0 9	0 0 5	3 8 9	2 5 6					
24	0 1 1	0 0 4	2 0 4 1	0 0 9	0 9 4	0 0 3 1	0 2 1	1 4 1	5 0 1 5	0 1 0	1 8 9	5 0 1 5	0 1 0	2 9 4	5 0 8 6	0 0 6	4 1 1	1 7 0	0 1 6				
25	0 0 1	0 0 3	0 0 4 4	0 0 1	0 8 6	0 0 3 7	0 3 9	1 3 2	5 0 3 0	0 4 2	1 8 1	5 0 1 3	0 2 4	2 8 7	5 0 6 0	0 2 4	4 0 5	1 1 7	0 1 8				
26	9 9 8	0 0 2	2 0 4 4	5 0 1	0 8 4	0 0 4 9	1 3 1	0 0 3 2	0 2 2	1 7 9	5 0 0 8	0 0 8	2 8 4	5 0 7 0	0 1 0	4 0 3	1 2 4	0 2 4					
27	9 9 9	0 0 2	2 0 4 3	5 0 1	0 8 4	5 0 2 8	0 3 4	1 2 9	5 0 3 6	0 0 8	1 7 4	5 0 4 4	0 0 8	2 7 9	5 0 8 9	0 1 0	3 9 6	1 5 6	0 1 1				
30	0 0 7	0 0 2	8 0 4 6	0 0 6	0 9 1	5 0 4 5	0 2 8	1 3 6	5 0 3 1	0 2 1	1 8 4	5 0 2 2	0 2 1	2 8 9	5 0 6 8	0 0 8	4 0 8	1 3 6	0 0 6				
31	9 9 8	0 0 3	8 0 4 8	5 0 1	0 8 3	5 0 3 0	0 3 3	1 2 9	5 0 3 8	0 3 3	1 7 6	5 0 3 1	0 3 7	2 8 1	5 0 9 0	0 2 8	3 9 9	1 4 8	0 1 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	5 2 6	2 7 4	0 9	6 8 3	3 8 7	0 4	8 7 4	5 4 1	1 3 5	5 1 3	3 2 3	4 9 2											
02	5 2 9	2 9 6	0 4	6 8 6	3 6 8		8 7 9	5 0 8	1 4 0	5 0 6	3 2 9	4 7 1											
03	5 3 3	2 5 2	0 6	6 9 1	3 4 9	0 3	8 8 5	5 0 6	1 4 5	5 3 4	3 3 1	5 0 1	5 9 6	4 8 0									
04	5 3 2	2 6 6	0 3	6 8 9	3 6 9	0 2	8 8 1	5 1 1	1 4 4	5 0 1	3 3 2	4 9 0	5 9 9	4 4 9	7 4 9	4 2 3	9 4 4	4 0 0					
05	5 3 4	2 6 1	0 6	6 9 1	3 7 3	0 2	8 8 3	5 3 6	1 4 7	4 6 6	3 3 8	4 6 7	6 0 8	4 5 2									
06	5 2 9	2 7 9	0 5	6 8 6	4 1 3	0 1	8 7 4	5 5 6	1 4 0	4 5 8	3 3 1	4 5 5											
07	5 4 8	2 5 1	0 3	7 0 6	3 6 6	0 1	8 9 8	5 2 1	1 5 5	5 2 8	3 4 3	4 5 6											
08	5 5 1	2 1 5	1 4	7 1 2	3 4 0	0 5	9 0 7	4 9 9	1 5 5	5 7 0	3 4 3	4 9 1	6 0 9	4 8 7	7 5 8	4 5 8	9 5 0	4 3 4					
09	5 4 2	2 1 5	0 9	7 0 2	3 3 6	0 5	9 8 8	4 7 1	1 5 8	5 2 9	3 4 5	5 1 0	6 1 3	4 7 0	7 5 9	4 5 1							
10	5 4 0	2 3 7		7 0 1	3 2 2		8 9 8	4 6 0															
11	5 3 7	2 2 0		6 9 7	3 5 2		8 9 2	4 9 5	1 5 8	4 6 9	3 4 8	4 7 2	6 1 7	4 5 4	7 6 6	4 4 6							
12	5 4 6	2 1 2	0 4	7 0 7	3 4 5	0 2	9 0 1	4 7 8	1 6 4	4 9 6	3 5 3	4 7 7	6 2 2	4 4 5									
13	5 4 9	1 8 8	0 9	7 1 2	3 1 7	0 3	9 0 9	4 6 7	1 6 8	5 5 0	3 5 5	4 9 7	6 2 3	4 5 4	7 7 3	4 3 0							
14	5 3 8	2 2 1	1 0	6 9 8	3 4 0	0 4	8 9 2	4 9 6	1 5 6	4 7 8	3 4 8	4 5 6	6 1 8	4 4 5	7 6 7	4 3 6	9 6 1	4 1 4					
15	5 2 9	2 5 2	0 5	6 8 8	3 6 2	0 2	8 8 1	4 8 3	1 4 9	4 5 6	3 4 1	4 5 1	6 1 2	4 5 2									
16	5 5 1	2 1 8	0 7	6 9 2	3 8 7	0 5	8 9 0	4 5 4	1 4 9	5 5 6	3 3 9	4 4 4	6 1 1	4 3 8	7 5 4	4 2 6							
17	5 5 0	2 3 2	0 4	6 9 0	3 4 7	0 3	8 8 4	4 9 1	1 5 0	4 6 3	3 3 4	4 3 8											
18	5 2 9	2 5 7	0 8	6 8 7	3 7 8	0 2	8 7 8	5 2 5	1 4 6	4 3 8	3 3 9	4 4 2	6 1 2	4 3 8	7 6 3	4 3 6	9 5 5	4 3 3					
19	5 3 5	2 5 3	1 0	6 9 1	3 7 8	0 4	8 8 2	5 3 7	1 4 4	4 8 4	3 3 5	4 5 1	6 0 2	4 4 6									
20	5 3 3	2 7 7	0 3	6 9 0	3 9 8	0 1	8 8 0	5 3 5	1 4 2	4 8 1	3 3 1	4 5 8	6 0 1	4 6 5	7 5 0	4 2 7	9 4 4	4 3 1					
21	5 2 9	2 6 1	0 9	6 8 7	3 7 8	0 4	8 7 8	5 4 2															

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND FOR THE MONTH OF NOVEMBER 1949

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 9 8	0 0 4	8 0 5 2	5 0 1	0 8 4	0 0 1 5	0 4 4	1 3 0	5 0 0	0 2 5	1 7 8	5 0 3 2	0 2 5	2 8 3	5 0 7 2	0 0 8	4 0 2	1 3 1	0 1 0	
02	9 9 4	0 0 5	7 0 5 3	5 0 4	0 8 1	5 0 0 7	0 3 6	5 0 2 8	0 3 2	1 7 5	5 0 2 0	0 2 0	2 8 0	5 0 7 2	0 1 1	3 9 8	1 4 1	0 0 7		
03	9 9 1	0 0 4	7 0 4 2	5 0 7	0 7 7	5 0 3 0	0 2 8	1 2 2	5 0 7 2	0 2 3	1 6 9	5 1 5 0	0 2 0	2 7 1	5 1 3 8	0 1 7	3 8 7	2 0 3		
04	9 8 1	0 0 3	7 0 4 9	5 1 5	0 7 0	5 0 1 6	0 3 1	1 1 6	5 0 4 3	0 2 6	1 6 3	5 0 7 9	0 2 2	2 6 6	5 1 5 0	0 1 6	3 8 2	2 0 0	0 0 8	
05	9 8 6	0 0 3	4 0 3 7	5 3 4	0 7 4	5 0 3 9	0 2 6	1 1 8	5 0 7 5	0 2 3	1 6 5	5 1 0 4	0 1 5	2 6 7	5 1 8 5	0 0 8	3 8 0	2 4 6	0 0 7	
06	9 8 7	0 0 5	6 0 5 6	5 1 0	0 7 6	0 0 2 3	0 4 6	1 2 2	0 0 0 5	0 4 5	1 7 0	5 0 4 6	0 3 2	2 7 4	5 1 1 8	0 2 1	3 9 0	1 9 4	0 1 2	
07	0 0 1	0 0 3	1 0 3 7	0 0 1	0 8 5	5 0 4 9	0 2 2	1 3 0	5 0 9 3	0 1 6	5 7 8	5 1 2 6	0 1 0	2 7 7	5 2 0 5	0 0 5	3 8 9	2 8 5	0 0 2	
08	0 0 6	0 0 4	7 0 5 1	0 0 5	0 8 9	5 0 1 3	0 3 6	1 3 4	5 0 1 5	0 4 0	1 8 3	5 0 4 2	0 2 7	2 8 7	5 0 4 4	0 1 6	4 0 5	1 5 7	0 0 9	
09	0 0 2	0 0 5	7 0 5 7	0 1 0	0 9 5	0 0 2 5	0 4 9	1 4 2	5 0 1 0	0 4 0	1 9 0	5 0 4 1	0 3 2	2 9 5	5 0 5 6	0 2 6	4 1 4	1 2 9	0 1 0	
10	9 9 6	0 0 5	9 0 6 0	5 2 6	0 8 5	3 0 5 2	0 6 0	1 3 0	0 0 5 1	0 6 4	1 7 9	0 0 3 3	0 5 7	2 8 7	5 0 1 7	0 4 5	4 0 1	0 9 3	0 3 0	
11	0 1 1	0 0 4	4 0 4 6	0 0 9	0 9 4	0 0 4 1	0 1 3	1 4 0	0 0 2 6	0 3 5	1 8 9	0 0 0 9	0 3 2	2 9 6	5 0 4 9	0 2 2	4 1 5	1 1 5	0 0 6	
12	9 9 4	0 0 6	3 0 6 1	5 0 4	0 8 2	0 0 7 7	0 7 0	1 2 9	0 0 7 2	0 7 2	1 7 9	0 0 4 5	0 5 8	2 8 6	5 0 2 8	0 4 0	4 0 6	0 9 7	0 2 8	
13	9 7 7	0 0 6	1 0 6 0	5 1 7	0 6 8	0 0 4 0	0 5 8	1 1 4	5 0 1 0	0 4 1	1 6 2	5 0 1 7	0 4 0	2 6 7	5 0 5 5	0 2 9	3 8 5	1 5 8	0 1 8	
14	9 7 5	0 0 5	1 0 4 8	5 2 1	0 6 3	5 0 2 4	0 3 0	1 0 8	5 0 5 9	0 2 5	1 5 5	5 0 8 3	0 1 8	2 5 7	5 1 5 3	0 1 4	3 7 2	2 4 3	0 0 8	
15	9 9 5	0 0 5	3 0 5 7	5 0 3	0 8 2	5 0 1 4	0 3 6	1 2 7	5 0 3 1	0 3 5	1 7 5	5 0 4 9	0 2 9	2 7 9	5 0 8 6	0 2 7	3 9 6	1 6 2	0 1 4	
16	9 0 0	0 0 2	9 0 3 5	0 0 1	0 8 5	5 0 4 4	0 2 5	1 3 0	5 0 3 6	0 2 3	1 7 8	5 0 4 6	0 1 3	2 8 2	5 0 8 7	0 0 8	3 9 9	1 6 7	0 0 7	
22	0 0 8	0 0 3	5 0 3 4	0 0 7	0 9 1	5 0 5 5	0 2 5	1 3 6	5 0 8 5	0 2 0	1 8 3	5 0 5 5	0 0 6	2 8 6	5 0 6 3	0 0 9	4 0 6	1 5 7	0 0 5	
23	0 1 1	0 0 6	2 0 5 1	0 1 4	0 9 9	0 0 1 0	0 3 4	1 4 5	0 0 0 5	0 1 8	1 9 3	5 0 3 7	0 2 2	2 9 8	5 0 5 9	0 0 8	4 1 6	1 2 2	0 0 6	
24	0 0 3	0 0 6	0 0 5 7	0 0 3	0 8 9	0 0 1 2	0 4 4	1 3 5	5 0 2 8	0 4 5	1 8 3	5 0 3 8	0 2 4	2 8 7	5 0 8 7	0 2 4	4 0 5	1 5 4	0 1 4	
25	0 0 2	0 0 2	9 0 4 1	0 0 2	0 8 6	5 0 4 7	0 2 5	1 3 1	5 0 8 2	0 2 1	1 7 8	5 1 1 6	0 1 7	2 7 9	5 1 6 1	0 1 6	3 9 4	2 2 6	0 0 3	
26	0 0 2	0 0 4	9 0 4 6	0 0 2	0 8 7	5 0 1 4	0 3 5	1 3 2	5 0 3 3	0 1 9	1 8 0	5 0 4 2	0 0 7	2 8 4	5 1 1 1	0 1 0	4 0 1	1 7 8	0 1 0	
27	0 0 3	0 0 6	3 0 6 6	0 0 3	0 6 3	0 0 4 7	0 5 8	1 3 6	0 0 2 4	0 3 5	1 8 5	5 0 1 5	0 3 8	2 9 0	5 0 5 6	0 3 0	4 0 9	1 3 0	0 1 9	
28	9 9 9	0 0 6	0 0 5 9	0 0 0	0 8 6	0 0 4 6	0 5 1	1 3 2	0 0 3 0	0 5 8	1 8 1	0 0 0 7	0 2 9	2 8 7	5 0 4 9	0 0 8	4 0 7	1 3 0	0 0 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 3 8	2 2 7	0 9	6 9 8	3 2 6	0 4	8 9 4	4 9 2	1 5 3	5 3 0	3 3 9	4 9 2	6 0 6	4 7 0	7 5 4	4 5 6	9 4 6	4 4 4						
02	5 3 5	2 1 0	1 1	6 9 6	3 2 6	0 5	8 9 2	4 6 6	1 5 4	5 2 2	3 4 3	4 7 3	6 1 3	4 4 7										
03	5 2 0	2 8 4		6 7 8	3 9 0		8 6 9	4 9 0	1 3 3	4 9 0	3 2 2	4 7 4	5 9 4	4 2 8	7 3 9	4 2 3								
04	5 1 5	2 7 2	0 3	6 7 2	3 8 2	0 2	8 6 5	4 9 4	1 3 2	4 5 8	3 2 2	4 8 4												
05	5 1 1	3 1 0	0 5	6 6 5	4 1 7		8 5 7	4 4 2	1 3 1	4 1 8	3 2 3	4 7 1												
06	5 2 3	2 9 4	0 6	6 8 0	3 7 6	0 2	8 7 3	5 0 5	1 4 3	4 6 3	3 3 3	4 7 1	6 0 2	4 6 3										
07	5 1 2	3 8 7	0 3	6 6 8	4 4 0		8 6 0	4 6 0	1 3 3	4 3 5	3 2 6	4 3 5	5 9 7	4 5 4	7 4 6	4 6 2	9 3 7	4 6 2						
08	5 3 9	2 5 9	0 5	6 9 7	3 9 7	0 2																		
09	5 5 5	2 0 1	1 0	7 1 4	2 9 4	0 5	9 1 3	4 4 0	1 1 7	6 1 2	1 3 5	5 5 3	1 6 1	5 1 8	1 7 6	4 9 3	9 4 7	4 8 0						
10	5 4 6	1 5 5	1 1	7 1 0	3 0 2	0 3	9 0 9	4 4 8	1 7 1	5 1 2	3 5 9	4 9 0	6 2 3	5 1 5	7 6 9	4 7 4								
11	5 5 2	2 1 0	0 4	7 1 3	3 3 6	0 3	9 0 9	4 7 5	1 7 1	5 0 1	3 6 1	4 9 2	6 2 6	4 9 3	7 7 2	4 8 6	9 6 1	4 8 3						
12	5 4 5	1 4 5	2 2	7 0 9	2 7 0	1 0	9 1 0	4 3 5	1 7 1	6 0 5	3 5 5	5 2 0	6 1 8	5 0 1	7 6 4	4 8 9								
13	5 2 1	2 3 3	1 2	6 8 1	3 3 7	0 5	8 7 7	4 5 7																
14	5 0 2	3 4 6	0 5	6 5 4	4 3 5		8 4 7	4 4 6	1 1 9	4 1 9	3 1 6	3 9 5	5 9 2	4 1 2										
15	5 3 3	2 3 7	1 0	6 9 3	3 2 5	0 5	8 8 9	4 8 0	1 5 4	4 8 4	3 4 4	4 7 1	6 1 4	4 4 9										
19	5 3 3	2 7 9	0 4	6 9 2	3 2 5	0 3																		
22	5 4 1	2 5 4	0 6	6 9 9	3 4 8	0 2	8 9 5	4 7 0	1 5 6	5 1 2	3 4 3	4 9 7	6 0 8	4 9 1	7 5 5	4 7 7								
23	5 5 5	2 2 2	0 4	7 1 5	3 5 0	0 2	9 0 9	4 9 3	1 6 6	5 6 4	3 5 1	5 0 6	6 1 7	4 7 6	7 6 5	4 7 1								
24	5 4 1	2 3 6	1 1	6 9 9	3 6 8	0 4	8 9 3	5 1 2																
25	5 2 6	3 2 2	0 2	6 8 6	4 1 6	0 1	8 7 1	5 1 7	1 3 4	4 9 6	3 2 3	4 8 9	5 9 0	4 5 8	7 3 9	4 3 5								
26	5 3 6	2 4 5	0 4	6 9 4	3 6 5	0 2	8 8 8	5 0 0	1 4 5	5 5 1	3 3 0	5 1 9	5 9 5	4 8 1	7 4 2	4 6 4	9 3 3	4 7 0						
27	5 4 6	2 0 0	1 1	7 0 7	3 4 0	0 4	9 0 1	5 0 5	1 5 7	5 8 6	3 4 1	5 3 8	6 0 3	5 0 7	7 4 9	4 8 7								
28	5 4 3	2 2 2	0 4	7 0 3	3 5 5	0 2	8 9 7	5 0 0	1 5 7	5 1 4	3 4 4	5 1 4	6 0 7	5 0 3										

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND
FOR THE MONTH OF DECEMBER 1949

DAY	SURFACE			1000. MBS.		900 MILLIBARS			850 MILLIBARS			800 MILLIBARS			700 MILLIBARS			600 MILLIBARS			
	PPP	TTT	WWW	HHH.	HHH	TTT	WWW	HHH	TTT	WWW											
08	9 9 5	0 0 2	5 0 3 2	5 0 3	0 8 0	5 0 5 4	0 2 3	1 2 5	5 1 1 0	0 1 8	1 7 2	5 1 4 0	0 1 6	2 7 3	5 1 7 0	0 1 5	3 8 8	2 5 0	0 0 8		
10	9 8 6	0 0 5	5 0 5 8	5 1 2	0 7 4	5 0 1 7	0 3 5	1 1 9	5 0 3 8	0 3 4	1 6 7	5 0 8 0	0 2 6	2 7 0	5 1 1 2	0 2 2	3 8 6	1 8 7	0 1 4		
12	9 8 5	0 0 5	5 0 4 5	5 1 2	0 7 5	5 0 1 8	0 2 5	1 1 8	5 0 5 4	0 2 3	1 6 5	5 0 8 7	0 1 7	2 6 6	5 1 4 7	0 1 4	3 8 5	2 1 5	0 0 7		
14	9 9 2	0 0 5	1 0 4 5	5 0 6	0 7 9	5 0 1 7	0 3 4	1 2 4	5 0 4 2	0 2 1	1 7 2	5 0 7 7	0 2 0	2 7 4	5 1 4 7	0 1 0	3 9 0	2 1 2	0 0 7		
15	0 0 3	0 0 3	9 0 3 2	0 0 5	0 8 8	5 0 3 0	0 2 4	1 3 3	5 0 7 0	0 2 3	1 7 9	5 1 0 8	0 2 1	2 8 2	5 1 2 5	0 0 5	3 9 8	1 8 8			
16	0 0 5	0 0 4	4 6 6	0 0 5	0 8 9	5 0 3 9	0 2 7	1 3 4	5 0 7 3	0 2 3	1 8 1	5 0 9	0 2 0	2 8 3	5 1 2 7	0 0 5	4 0 0	1 8 8			
17	0 1 3	0 0 3	8 0 4 2	0 1 1	0 9 6	5 0 5 1	0 2 5	1 4 1	5 0 2 4	0 1 0	1 8 9	5 0 5	0 0 7	2 9 3	5 0 8 5	0 1 1	4 1 1	1 6 5			
18	0 1 6	0 0 6	1 0 5 6	0 1 4	0 9 9	0 0 1 7	0 4 8	1 4 5	5 0 1 9	0 4 0	1 9 5	5 0 4 5	0 3 4	2 9 8	5 0 7 5	0 5 2	4 1 6	1 4 8	0 2 0		
20	0 1 3	0 0 7	2 0 6 0	0 1 1	0 9 7	0 0 0 9	0 4 5	1 4 3	5 0 0 5	0 1 6	1 9 1	5 0 1 5	0 2 8	2 9 7	5 0 5 5	0 1 5	4 1 7	1 2 5			
22	9 9 6	0 0 7	2 0 6 4	5 0 3	0 8 4	0 0 4 8	0 5 8	1 3 0	5 0 4 5	0 6 2	1 8 0	5 0 3 4	0 5 9	2 8 6	5 0 3 0	0 4 3	4 0 7	0 9 2	0 1 9		
24	9 7 0	0 0 7	7 0 6 8	5 2 5	0 6 2	0 0 3 0	0 5 5	1 0 8	0 0 0 8	0 4 8	1 5 7	0 0 0 1	0 4 8	2 6 2	5 0 7 1	0 3 3	3 8 1	1 3 7	0 2 3		
26	9 7 8	0 0 5	6 0 5 7	5 1 8	0 6 8	5 0 0 5	0 4 2	1 1 3	5 0 2 0	0 4 0	1 6 1	5 0 3 6	0 3 8	2 6 6	5 0 7 8	0 3 1	3 8 5	1 5 1	0 2 0		
27	9 8 8	0 0 5	6 0 4 8	5 0 9	0 7 6	5 0 1 1	0 2 9	1 2 1	5 0 5 6	0 2 5	1 6 8	5 0 9 6	0 2 0	2 7 1	5 0 9 4	0 1 9	3 8 9	1 7 5			
28	9 9 4	0 0 4	8 0 4 8	5 0 4	0 8 1	5 0 3 2	0 2 8	1 2 6	5 0 6 7	0 2 5	1 7 3	5 0 9 8	0 2 1	2 7 6	5 1 0 6	0 3 9	3 9 4	1 7 0	0 0 5		
29	9 9 4	0 0 5	1 0 5 8	5 0 4	0 8 1	5 0 0 2	0 4 2	1 2 6	5 0 2 9	0 3 7	1 7 4	5 0 5 3	0 3 2	2 7 8	5 1 0 5	0 2 5	3 9 5	1 7 4	0 1 7		
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	
08	5 1 7	3 7 0	0 3	6 7 0	4 0 0		8 5 9	5 3 0	1 2 3	4 8 8	3 1 6	4 7 5					7 4 9	4 2 1	9 4 4	4 2 4	
10	5 2 0	2 6 0	0 9	6 7 8	3 8 3	0 4	8 6 7	5 4 4	1 2 7	4 9 6	3 2 4	4 2 2	5 9 8	4 3 0							
12	5 1 5	3 1 4	0 5	6 6 9	4 2 4		8 6 0	5 0 5	1 2 9	4 2 0	3 2 8	4 6 3	5 9 8	4 5 8							
14	5 2 2	3 1 3	0 5	6 7 6	4 4 1		8 6 7	4 7 5	1 3 7	4 5 5	3 3 7	4 6 9	6 0 5	4 6 0	7 5 3	4 5 4	9 4 5	4 5 2			
15	5 3 1	2 8 3		6 8 8	3 9 5		8 7 9	4 8 8	1 4 6	4 6 5	3 4 1	4 9 0	6 0 9	4 6 5	7 5 7	4 6 3	9 4 9	4 5 2			
16	5 3 5	2 1 5		6 9 6	3 1 2		8 9 3	4 7 2	1 5 3	5 2 1	3 4 2	5 2 2	6 0 9	4 7 3	7 5 7	4 6 7	9 4 8	4 6 1			
17	5 4 6	2 3 1		7 0 6	3 4 6		9 0 1	4 8 9	1 5 8	5 5 2	3 4 5	5 1 1	6 0 9	4 7 3	7 5 7	4 6 7	9 4 8	4 6 1			
18	5 5 1	2 5 0	0 9	7 0 9	3 7 8	0 4	9 0 0	5 5 9	1 5 5	5 3 6	3 4 2	5 2 2	6 0 7	4 8 2							
20	5 5 4	2 0 2		7 1 5	3 1 4		9 1 1	4 8 2	1 7 0	5 3 3	3 5 6	5 1 3	6 2 0	4 9 2							
22	5 4 6	1 6 9	1 6	7 1 0	2 9 1	0 9	9 1 0	4 3 4	1 7 3	5 4 5	3 5 9	4 9 8									
24	5 1 7	2 2 2	0 7	6 7 7	3 5 4		8 7 3	4 8 7	1 4 4	4 1 5	3 3 7	4 4 9	6 0 8	4 5 5	7 5 6	4 5 9					
26	5 1 9	2 5 2	1 0	6 7 8	3 7 4	0 4	8 6 9	4 9 3	1 3 8	4 2 8	3 3 2	4 2 8	6 0 4	4 3 5	7 5 4	4 4 2	9 4 6	4 4 9			
27	5 2 2	2 5 6		6 8 0	3 9 0		8 7 1	5 2 5	1 3 7	4 5 0	3 2 9	4 5 0	5 9 9	4 3 3	7 5 0	4 3 3					
28	5 2 8	2 7 4	0 7	6 8 4	4 0 6		8 7 4	5 1 3	1 4 0	4 5 7	3 3 3	4 2 3	6 0 6	4 3 3	7 5 7	4 3 3					
29	5 2 9	2 6 7	0 9	6 8 7	3 8 6	0 3	8 7 8	5 1 5	1 4 1	4 6 4	3 3 3	4 5 4	6 0 3	4 4 7	7 5 2	4 5 0	9 4 4	4 4 7			

RESULTS OF RADIOSONDE OBSERVATIONS AT MACQUARIE ISLAND 1949
TROPOPAUSE

JANUARY					FEBRUARY					MARCH					APRIL					
DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	
01	1253	174	509	I	01	769	346	469	I	02	943	280	574	I	03	1356	147	559	I	
02	1136	213	599	I	02	910	285	518	I	05	890	300	480	I	04	1355	144	490	I	
03	1160	205	618	I	03	989	252	545	I	06	1158	200	455	I	05	1468	121	559	I	
04	1020	247	594	I	04	723	373	434	I	07	1078	254	573	I	08	1482	115	513	I	
05	1162	200	434	I	06	1365	145	470	I	08	1161	200	624	I	09				I	
06	1404	137	481	I	07	878	300	510	I	09	1185	200	618	I	10	1500	114	520	I	
07	1246	175	440	I	08	1028	248	475	I	10	1120	216	556	I	11	1466	121	450	I	
09	864	509	506	I	09	1484	119	472	I	12	1180	200	613	I	15				I	
10	664	305	520	I	10	811	531	450	I	15	962	270	527	I	16	1436	130	544	I	
11	781	346	483	I	11	805	326	516	I	16	772	544	473	I	17				I	
12	1060	235	560	I	12	840	307	544	I	20	810	522	457	I	18				I	
13	1095	223	565	I	13	857	300	538	I	21	789	530	536	I	22				I	
14	1006	254	491	I	14	1010	242	536	I	22				I	23	1522	112	501	I	
15	1681	146	573	I	15	738	355	465	I	23	871	300	487	I	24				I	
16	1040	245	544	I	16	701	379	431	I	24	917	276	538	I	25	1491	118	586	I	
18	1010	253	511	I	17	832	312	528	I	25	817	514	548	I	26	1378	140	535	I	
19	1310	165	526	I	18	1126	200	413	I	26	1040	235	621	I	28				I	
20	1173	200	547	I	19	718	367	475	I	30	1016	245	582	I	29				I	
21	804	250	515	I	20	968	265	543	I	30				I	30	1234	180	688	I	
22	807	330	515	I	21	880	300	532	I											
24	1070	230	594	I	22	764	358	460	I											
25	930	282	515	I	23	1056	235	581	I											
27	1424	136	545	I	27															
28	1120	220	571	I	28	893	300	489	I											
29																				
30	1131	214	561	I																
31	830	318	457	I																
MAY					JUNE					JULY					AUGUST					
DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	
01	1174	200	653	I	01	940	273	609	I	01	871	296	554	I	03	1044	235	590	I	
02	1048	240	572	I	02	978	596	596	I	02	863	300	511	I	01	938	268	642	I	
04	955	270	529	I	05	986	256	588	I	04	966	255	537	I	04	960	260	612	I	
05	1221	180	664	I	06	1080	221	693	I	05	765	342	507	I	05	898	262	585	I	
06	1060	228	631	I	07	871	300	509	I	06	787	328	500	I	06	1034	222	635	I	
07	920	278	569	I	15	1080	221	693	I	07	893	285	561	I	08	1051	227	614	I	
08	987	250	595	I	18					08	862	300	561	I	09	1083	218	628	I	
09	1016	238	600	I	20					09	845	300	497	I	10	1149	200	720	I	
11	1061	232	628	I	21	961	258	519	I	10	920	272	556	I	11	1283	154	529	I	
12	1120	211	675	I	22	1121	208	688	I	11	989	250	634	I	12	1049	227	645	I	
13	1225	177	604	I	23	1095	222	663	I	12	1078	226	649	I	13	946	267	645	I	
14	1077	226	620	I	24	1107	216	663	I	13	1078	226	649	I	14	1049	227	645	I	
15	1124	213	635	I	25	1108	235	664	I	14	1078	226	649	I	15	1025	242	574	I	
17					26	1104	237	655	I	15	942	280	579	I	17	890	278	539	I	
19	960	265	575	I	27	980	250	603	I	16	1038	240	628	I	19	1025	242	574	I	
20	1336	150	539	I	28	1084	218	645	I	17	874	300	492	I	20	870	292	578	I	
21					29	865	300	525	I	18	993	247	618	I	21	803	322	534	I	
22	1092	225	645	I	30	1014	244	656	I	19	1077	222	563	I	22	903	270	539	I	
23	1101	216	673	I						20	1253	177	677	I	23	1362	136	519	I	
24	1124	210	648	I						21	997	248	555	I	24	1087	210	696	I	
25	1100	218	618	I						23	1032	235	636	I	25				I	
26	1071	225	619	I						24	1070	224	670	I	26	1122	200	704	I	
30	1164	200	670	I						25	995	238	566	I	29	1130	200	750	I	
31	1113	212	662	I						26	915	278	555	I	30	1005	242	642	I	
										27	949	266	562	I	31	1050	226	640	I	
										28	940	268	600	I					I	
										29	866	300	532	I					I	
										31	1040	230	674	I					I	
SEPTEMBER					OCTOBER					NOVEMBER					DECEMBER					
DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	DAY	HHHH	PPP	TTT	TYPE	
01	1010	242	597	I	01	925	277	546	I	01	1042	238	574	I	08	820	320	554	I	
02	1204	183	697	I	02	945	269	526	I	02	1030	243	551	I	2	910	277	558	I	
03	1180	225	652	I	03	1058	230	588	I	03	922	275	524	I	12	820	319	550	I	
04	870	300	496	I	04	973	260	540	I	04	926	273	504	I	14	719	375	557	I	
05	1061	230	634	I	05	883	300	536	I	05	1323	150	471	I	15	879	300	486	I	
06	1077	223	670	I	06	874	300	556	I	06	1240	280	540	I	16	1051	234	502	I	
07	1088	217	710	I	07	1014	250	592	I	07	1250	172	555	I	17	1080	224	560	I	
08	1094	216	656	I	08	1102	221	633	I	08	109	1060	210	563	I	18	1014	250	524	I
09	1074	228	614	I	09	1061	233	563	I	09	1063	232	557	I	20	1050	242	594	I	
10	1008	250	527	I	10					10	1623	100	551	I	22	1071	236	545	I	
11	925	273	530	I	11	935	282	526	I	11	1510	120	552	I	24	1261	168	442	I	
12	898	288	577	I	12	1020	250	544	I	12	1140	210	563	I	26	825	321	495	I	
13	873	300	476	I	13	930	225	585	I	13	840	318	546	I	27	901	281	537	I	
14	876	300	537	I	14	995	274	540	I	14	1119	200	542	I	28	874	300	513	I	
15	932	276	546	I	15	881	300	483	I	15	983	262	553	I	29	949	269	534	I</	

RESULTS OF PILOT BALLOON OBSERVATIONS AT HEARD ISLAND YEAR 1949													
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES			
JAN	02	05	22 23	22 14	23 17	23 31							
JAN	02	11	27 08	27 11	26 09	27 12	26 15	26 15	26 20	26 31			
JAN	07	05	35 05	34 10	34 09	35 05	34 04	31 06	30 09	29 10			
JAN	07	11	05 18	06 17	05 18								
JAN	08	03	28 04										
JAN	12	05	23 15	22 19	21 20	22 22	21 27						
JAN	13	06	27 21	27 23	27 19	27 22	27 22	27 30					
JAN	17	11	20 16	21 22	22 27	22 32							
FEB	07	05	08 06										
FEB	07	11	36 02										
FEB	08	00		05 18	09 06	07 16	07 14	06 10	04 04	04 08			
FEB	08	05	07 19		05 19	06 28	05 15	04 18	04 18	04 18			
FEB	10	04	05 02		06 17	06 47	06 40	07 11	06 14				
FEB	15	06	31 07		05 01	21 04	28 16	28 28	28 35				
FEB	17	08	24 34		23 44	23 51							
FEB	19	11	26 06		23 10	22 09	19 05						
FEB	20	05	22 17		20 27	21 34	21 34	21 30					
FEB	20	11	21 14		20 21	21 18	22 18						
FEB	21	05	26 07		25 09	23 12							
FEB	22	05	21 30		19 43	18 41							
MAR	02	11	26 14		21 19	26 15	28 28	27 36	27 36	26 31			
MAR	02	11	25 14										
MAR	09	13	22 12										
MAR	09	14	23 11		21 12								
MAR	09	17	25 07		30 06	29 10	27 06	28 20	28 19	27 22			
MAR	13	11	25 14		24 17								
MAR	16	11	29 13		25 17	25 45	25 42	25 35	25 35	25 33			
MAR	18	15	00 00		28 04	28 09	28 10	28 14	25 35	25 33			
MAR	19	05	27 06		25 08	27 08							
MAR	23	06	21 32		19 42	20 30	19 51	20 60	20 38	20 40			
MAR	23	11	21 31		20 35								
MAR	23	15	21 17		18 20	20 31	20 33	20 36	21 15				
MAR	24	05	22 20		19 22	19 19	18 20	18 14	19 16				
MAR	24	15	26 05		25 11	25 23							
MAR	31	00	29 07		25 10	24 11	24 12	26 14	26 22	27 13			
MAR	31	05	08 07		35 10								
APR	01	03	20 13	19 16	18 32	19 28	20 34	21 26	21 23				
APR	01	11	18 05	20 05	20 06	20 04	22 07						
APR	07	15	34 10	34 13	31 15								
APR	09	02	27 05	25 08	26 11	26 21							
APR	09	05	23 10	25 07	25 09								
APR	14	05	29 12	25 05	24 15	24 08							
APR	14	05	29 13										
APR	17	14	25 04	22 08	26 07	27 15	28 19	30 25	30 29	30 26			
APR	22	12	23 16	22 15	21 24	21 24							
APR	22	15	24 09	21 11	21 11	21 13	21 20	23 15					
APR	23	06	10 02	08 05	06 03	27 02	27 04	24 03					
APR	23	11	35 07	33 09	33 08	32 08	31 09						
APR	30	06	29 14	26 09	25 15	24 25	24 28	23 18					
APR	30	11	29 14	28 13	27 13	25 25							
MAY	02	12	34 17	29 14	26 13	26 25							
MAY	04	05	28 23	29 15	26 14	25 21	25 24	25 28	26 23				
MAY	04	11	34 24	32 16	31 18	32 15							
MAY	08	11	29 29	26 10	25 28								
MAY	10	06	29 16	28 11	24 12	24 24	24 24						
MAY	14	05	19 18	19 16	19 32	20 27	20 22						
MAY	14	11	25 18	23 16	23 19	23 24	24 18						
MAY	17	04	29 26										
MAY	17	14	27 09	25 02	25 15		24 17						
MAY	18	00	23 11	25 18	25 19	25 18							
MAY	19	17	29 10	25 09	26 13	26 23							
MAY	20	04	29 12										
MAY	20	09	31 14	29 15	27 19	26 22							
MAY	20	11	32 14	28 12	27 15	26 22	25 23	25 21	26 20	26 20			
MAY	20	16	27 17	24 13	24 20	24 26	24 24	24 32	26 24				
MAY	21	05	24 20	23 17	24 22	24 33	23 27						
MAY	21	10	32 02	27 06	27 13	26 21	26 20	25 23	25 24	26 33			
MAY	21	14	29 04	25 09	26 08	26 12							
MAY	23	10	29 12	27 10	27 16	27 14							
MAY	27	17	25 14	22 16	22 21	21 19	22 13	23 16	23 16	23 34			
MAY	29	06	27 14	24 14	24 18								
MAY	31	06	26 24	23 24	23 32								
JUN	02	11	27 21	25 19	24 26	25 32							
JUN	03	10	33 18	27 11	26 30								

RESULTS OF PILOT BALLOON OBSERVATIONS AT HEARD ISLAND YEAR 1949												
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES		
IN	04	05	20 05	21 08	19 13	20 19	19 17	19 20	18 13	19 07		
IN	05	09	29 05	29 07	29 12	28 10	28 13					
IN	08	11	27 14	24 17	24 35	24 44	24 36					
IN	09	10	29 10	27 10	26 11	26 31						
IN	09	15	30 12	29 14	29 26	28 17	28 20					
IN	10	06	29 16									
IN	11	05	30 05	23 03	24 12	25 19	27 21	27 31	27 27	27 26		
IN	13	05	08 02	07 10	07 08	03 04	01 02	33 04	28 06	26 08		
IN	13	11	00 00	07 03	05 01	00 00	16 02	24 04	23 06	24 09		
IN	13	11	00 00									
IN	13	17	00 00	08 03	05 01	02 01	25 03	23 04	23 09	24 11		
IN	18	05	28 10	25 07	25 14							
IN	18	09	31 20	28 19	27 26							
IN	25	05	20 14	19 18	20 18	20 21	21 19					
IN	25	05	22 15									
IN	25	10	23 16	23 15	20 16	20 23	19 17	22 05	22 11	22 21		
IN	28	00	07 02	00 00	30 03							
IN	30	11	21 18	19 13	21 18	22 18						
JL	01	17	32 13	29 11	27 15	27 21	26 17	26 18				
JL	02	00	30 17	27 04	27 06	29 07	29 07	28 10	28 11			
JL	02	05	00 00	16 03	28 01	32 06	32 07	31 07	32 05	29 06		
JL	02	11	09 04	09 04	06 04	01 04	35 07	34 08	33 07	29 07		
JL	03	04	20 21	19 25	19 29							
JL	04	01	20 10	21 11	20 15							
JL	04	05	05 02	34 07	34 06	03 09	07 10	19 04	16 08	16 07		
JL	04	06	00 00									
JL	04	10	00 00									
JL	04	11	33 04	33 04	33 04	34 06						
JL	05	10	18 18	18 18	19 26	19 22	17 25	15 21	16 21			
JL	05	17	21 09	21 10	21 11	22 16	23 18	25 17	24 20	24 17		
JL	06	01	26 15	27 17	27 21							
JL	06	10	26 15									
JL	06	17	19 10	19 09	23 08	24 17	25 21	25 15	26 16			
JL	07	11	20 10	20 09	19 08	23 14	23 17					
JL	07	14	00 00	21 01	23 04							
JL	07	17	07 04	07 04	06 15	03 08	02 12	34 12	32 10	36 07		
JL	08	05	30 05	30 05	30 06	30 09	28 05	11 03	08 02	30 03		
JL	09	06	29 13	29 13	26 15	27 17	26 22					
JL	13	00	19 06	19 09	22 08	22 04	15 12	16 13	16 13	16 11		
JL	13	05	07 07	07 05	05 01	29 04	21 02	33 04	33 01	17 07		
JL	13	17	06 13	02 14	05 19	05 12						
JL	14	05	36 15	36 24	36 20							
JL	18	05	32 04	32 04	30 05	30 09	29 11	29 06	15 12	15 17		
JL	18	11	26 08	26 08	26 09	27 06	28 10	31 03	34 05	07 02		
JL	20	04	22 16	23 10	23 11	25 21	25 18	25 19	26 30	25 30		
JL	20	06	34 13	33 15	32 09							
JL	22	11	27 10	27 15	26 10	26 21						
JL	25	06	27 19	27 22	25 22	26 20						
JL	25	08	29 07									
JL	25	11	28 25	28 23	27 37	23 18	26 23	26 33	27 37			
JL	25	17	29 15	29 10	29 11	28 27						
JL	26	07	27 24									
JL	27	03	29 08									
JL	27	06	26 13									
JL	27	06	28 15	27 15	28 19	27 17	27 21					
JL	27	11	28 03	29 04	28 05	27 08	29 11					
JL	28	04	30 03	23 11	23 12	24 08	27 12	26 17				
JL	28	11	23 20	23 13	21 18	23 32	23 45	23 38				
JL	29	04	27 20	23 19	24 29	24 38	24 40					
JL	29	06	25 21									
JL	29	17	20 15	21 11	20 14	20 09						
JL	30	05	17 10	17 09	18 13	18 18	17 20	19 30	19 33	35 10		
JL	30	11	17 11	17 12	17 17	18 23	19 22	18 30	15 09	02 10		
JL	30	14	15 10	19 12	19 10	17 09	18 12	21 02	01 08	21 09		
JL	31	02	19 05	24 08	24 14	24 07	22 16					
JL	31	04	19 03									
JL	31	05	20 03									
JL	31	06	18 03	21 03	21 03	24 07	25 13	24 18	22 16	22 17		
JL	31	11	29 07	27 08	27 10	26 21	25 19	25 17	25 18			
AB	01	00	28 10	28 11	27 17	27 22	26 23	25 24				
AB	01	11	25 15	25 17	24 11	24 17						
AB	03	01	19 10	20 07	19 04	06 01						
AB	03	04	00 00	30 02	33 04	23 08	35 06	01 07	20 05	25 06		
AB	03	11	36 11									
AB	03	11	36 04	02 18	02 18	03 28	05 23					
AB	05	10	09 04	09 09	09 06	24 05						
AB	05	11	07 04	06 05	35 02	28 07						
AB	05	11	07 04	06 05	35 02	28 07						

RESULTS OF PILOT BALLOON OBSERVATIONS AT HEARD ISLAND YEAR 1949											
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES	
ADB	08	06	32 09	32 17	32 11						
ADB	10	05	29 14								
ADB	10	11	29 20	29 21	28 21						
ADB	11	17	28 15	28 12	27 24	27 21	27 25				
ADB	12	04	27 13	28 07	26 21	26 39	26 44	27 60			
ADB	13	04	29 25	30 15	28 25						
ADB	14	04	30 25	29 17	28 16	29 13					
ADB	14	11	29 22	29 21	29 23	30 21	30 41				
ADB	15	04	00 00								
ADB	15	04	00 00	31 02	29 03	30 08	30 14	30 14			
ADB	15	17	21 17	21 15	22 14	23 05	23 19				
ADB	16	05	24 13	24 13	23 16						
ADB	17	05	30 15	31 17	30 22	30 23					
ADB	17	11	31 26	32 27							
ADB	18	09	32 10	32 10	32 07	33 14	32 15				
ADB	18	02	30 11								
ADB	18	05	35 08	01 09	36 09	36 07	35 09	35 14			
ADB	18	11	08 15	09 15	08 16	08 18	07 24	05 39			
ADB	19	00	34 03	36 04	01 05	05 07	31 16	31 09	32 13		
ADB	19	05	25 15	25 16	26 17	26 24					
ADB	20	11	24 20	26 25	25 04	27 16					
ADB	21	05	25 10	22 10	23 08	25 12					
ADB	21	06	29 09								
ADB	21	11	29 20	29 17	25 17	25 49	25 73				
ADB	22	06	27 22	25 21	24 14	24 27					
ADB	22	11	29 06	27 08	26 16	26 08	20 13	26 18			
ADB	23	11	22 30	21 23							
ADB	24	05	25 20	24 17	23 39	26 05	23 36	23 41	24 40		
ADB	24	08	22 22								
ADB	25	05	26 13	23 20	23 21	23 38	23 34				
ADB	25	11	28 20	27 10							
ADB	27	05	13 18	21 13	20 12						
ADB	30	11	29 35	28 32	28 37						
ADB	31	06	23 20	22 18	23 20	23 30					
SEP	01	04	20 35								
SEP	01	05	19 37	19 37	19 64	19 75	19 75				
SEP	01	11	24 13	25 13	25 17	26 35					
SEP	02	05	29 10	27 06							
SEP	02	11	27 20	27 24	23 08	25 36					
SEP	04	05	23 35	21 39	21 45	35 09					
SEP	04	11	24 24	26 17							
SEP	05	06	20 29	21 15	21 16						
SEP	05	11	20 21	20 19	20 18	21 26					
SEP	05	17	21 20	21 18	22 24	23 33	24 28				
SEP	06	02	35 10	35 21	35 22	02 20					
SEP	06	05	02 13	01 33	01 44	01 57					
SEP	07	02	28 20	28 15	28 16						
SEP	07	05	28 30	28 42	30 21						
SEP	07	11	15 28	08	27 22						
SEP	07	12	28 16								
SEP	08	06	23 20	23 06	25 21						
SEP	10	05	27 27	28 13	24 45	25 21					
SEP	11	01	23 03	23 05	22 04	29 11	29 19	29 21	27 15	27 15	
SEP	11	02	28 01								
SEP	12	05	29 17	28 16	29 12						
SEP	13	05	30 20	30 18	29 20	27 35	26 40				
SEP	13	08	29 08								
SEP	13	11	30 10	30 10	30 07	28 07					
SEP	15	05	20 10	22 12	22 16	22 27	23 19				
SEP	15	12	00 00	28 03	29 06	30 09	30 10	31 11			
SEP	16	00	00 00	00 00	18 01	20 06	21 10	19 11	19 13		
SEP	17	01	17 14	18 15	19 22	20 31	18 31	15 19	18 30	18 19	
SEP	17	06	24 11								
SEP	17	11	27 13								
SEP	17	11	27 13	28 08	27 13	28 10	26 20				
SEP	18	02	33 10	33 14	33 15	33 14					
SEP	23	01	35 13	33 15	34 19	33 12					
SEP	23	11	28 15	25 08	24 14	25 21	25 20	25 20	26 17		
SEP	24	05	12 02	10 02	33 07	32 13	32 15	32 11	31 19		
SEP	24	11	23 18	23 20	23 15	23 27	21 12				
SEP	25	06	30 23	29 21	27 19	27 21	27 19				
SEP	26	05	29 10	28 09	24 20	25 24	24 27				
SEP	27	06	21 24	21 17	21 14	20 16	22 26	23 35			
SEP	27	11	20 15	18 19	18 25	19 19	20 23	21 27	22 19	21 20	
SEP	27	17	17 10	18 12	19 15	20 17	21 26	21 30	21 07	25 05	
OCT	13	00	21 15								
OCT	13	01	21 15	21 25	20 33	21 36	21 32				
OCT	13	04	29 16								

RESULTS OF PILOT BALLOON OBSERVATIONS AT HEARD ISLAND YEAR 1949													
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES			
OCT	13	05	20 18	20 20	20 19	21 27	22 18	23 26					
OCT	13	11	23 15	23 14	23 16	23 18	24 20						
OCT	14	00	27 20	27 29	20 07	23 29	23 40	23 23	23 19	25 21			
OCT	14	05	27 03	24 08	24 14	24 22							
OCT	14	11	22 05	22 15	22 12	22 22	23 25	27 19	28 20	29 19			
OCT	15	00	18 10	17 13	18 15	17 17	18 20		17 04				
OCT	15	05	20 23	20 22	20 19	19 18	34 01	33 04					
OCT	15	09	20 03	21 11	22 12	25 07	30 06	25 03	17 05	19 08			
OCT	16	00	00 00	22 04	01 02	07 11	02 09	09 09					
OCT	16	05	07 10	08 10	07 09	05 07	03 08	01 08	33 09				
OCT	16	11	10 06	09 06	06 13	06 12	06 12						
OCT	17	00	05 02	12 05	10 03	09 02	56 06	34 09					
OCT	17	05	08 02	08 09	06 09	03 10	01 08	36 09					
OCT	17	11	00 00	35 02	35 03	32 07	30 09	26 08	26 07				
OCT	17	17	33 05	33 10	33 14	32 11	30 06	29 04	26 09				
OCT	18	03	01 08	01 10	03 13	36 15	35 21	35 22	34 17	33 16			
OCT	18	06	03 09	02 18	02 18								
OCT	18	09	07 10		02 20	36 25	36 25	35 27	35 24	35 22			
OCT	20	00	36 03	36 12	36 12	36 10	35 12	32 15	33 21				
OCT	20	17	04 10	04 08	01 16								
OCT	21	00	00 00	00 00	23	02	27 08						
OCT	21	14	21 20	21 22	21 29	21 43	21 31	21 28					
OCT	24	11	22 08	23 07	22 09	21 08	34 05	33 04	30 04	21 02			
OCT	25	06	17 08	15 03	03 04	09 02							
OCT	28	00	28 25	29 17	28 33	27 36	26 27						
OCT	29	06	30 17	29 18	29 17	27 20	26 29						
NOV	01	05	22 16	21 20	21 19	22 21	21 24						
NOV	01	11	20 10	20 06	21 04	05 05	04 09	05 08					
NOV	02	14	23 21	19 23	23 36	23 51	23 37	24 23					
NOV	04	00	25 17	22 10	24 10	25 15	25 20						
NOV	04	05	24 05	21 03	23 02	31 10	29 18	28 21	27 23				
NOV	11	00	10 18	19 16	19 16	20 20	21 18						
NOV	11	05	18 15	18 17	19 19	19 25	18 15	19 07	19 14	21 14			
NOV	11	07	19 19										
NOV	11	11	04 03	05 04	22 02	22 03	17 06	21 11	21 06	24 09			
NOV	11	17	00 00	22 03	23 04	25 03	23 03						
NOV	12	00	29 06	25 08	23 15	32 07	27 11	03 14	06 12	11 16			
NOV	12	05	35 09	35 15	35 16	01 03	02 04	15 01	19 03	17 10			
NOV	12	11	31 08	31 09	29 09	33 30							
NOV	14	00	02 10	06 10	07 08	06 11	06 15	05 11	35 13	35 19			
NOV	15	04	30 22										
NOV	15	12	21 10	21 12	21 18	21 28	21 21						
NOV	21	14	05 07	05 09	01 10	01 13							
NOV	22	06	26 04	28 05	28 10	29 16	32 05						
NOV	22	11	03 10	03 12	02 15	01 16	02 18	35 22	32 14	35 30			
NOV	26	05	28 18										
NOV	26	05	28 18	29 16	29 17	27 15							
NOV	26	11	01 11	01 11	36 10	03 06	05 08	02 12	34 09	33 10			
NOV	28	05	27 20	25 13	24 21	24 23							
NOV	29	11	22 19	20 20	19 20	19 20							
NOV	30	06	22 15	22 13	22 24	22 24							
NOV	30	11	21 15	20 13	21 18	22 29	23 15						
DEC	01	01	35 04	35 08	35 10	35 10	34 08						
DEC	03	05	27 07	26 16	25 32	25 31							
DEC	03	12	04 11	03 11	02 13	02 16	33 20						
DEC	06	11	20 30										
DEC	06	11	20 30	20 26	20 35	20 30	21 48						
DEC	08	05	35 05	34 06	34 07	32 10							
DEC	10	11	35 02	33 06	29 05	31 06							
DEC	10	12	00 00										
DEC	11	05	07 15	07 20	07 20	06 30	07 19						
DEC	12	05	22 19	23 19	23 18								
DEC	12	16	27 17	27 21	26 15	26 12	26 17	29 15					
DEC	16	11	28 13										
DEC	16	11	28 13	28 10	26 22	26 20	26 20	27 26	27 24				
DEC	17	00	30 13	29 12	28 09	28 15	27 15						
DEC	17	11	29 06	29 08	28 09								
DEC	17	13	29 09										
DEC	18	02	32 07	31 10	30 06	29 08							
DEC	19	01	34 03	35 05	34 07	33 09	30 11	32 16					
DEC	19	11	04 05	03 07	01 10	03 10	03 13	35 13	33 10	33 09			
DEC	20	09	23 20		23 21	22 22	22 21	22 23	22 25	22 27			
DEC	20	13	21 11	21 11	21 17	21 21	21 13	22 12	19 04	19 12			
DEC	20	17	02 03	03 07	03 08	04 08	04 10	07 07	08 03	05 06			
DEC	22	05	20 20	20 15	19 23	19 30	20 40	20 30					
DEC	22	12	22 21	22 10	22 21								
DEC	24	09	23 28		23 16	24 31	24 39	23 28		24 49			
DEC	24	09	23 28										

RESULTS OF PILOT BALLOON OBSERVATIONS AT HEARD ISLAND YEAR 1949											
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES	
DEC	25	05	23 07	23 07	24 09	23 10	23 09				
DEC	26	11	20 20	20 21	21 25	21 41	21 31				
DEC	27	11	25 05	24 05	25 05	29 04					
DEC	29	10	29 04								
DEC	29	11	29 04	32 04	31 03	19 01	27 10				
DEC	30	06	01 03	01 10	35 13	36 12	36 23	34 24			

RESULTS OF PILOT BALLOON OBSERVATIONS AT HEARD ISLAND YEAR 1949												
MONTH	DAY	HOUR	2100 METRES	2400 METRES	3000 METRES	3600 METRES	4500 METRES	5400 METRES	6000 METRES	7500 METRES	9000 METRES	
JAN	02	11	26 55	27 38								
JAN	07	05	29 19	30 09	28 23							
FEB	07	11	32 10	29 09	27 08	24 09	29 10	28 06	26 07			
FEB	08	00	04 18	04 17								
MAR	25	06	20 46									
MAR	20	11	26 45	27 43								
JUN	04	05	22 13	22 16	22 18							
JUN	11	05	27 31	26 33								
JUN	13	11	24 11	23 14								
JUN	13	17	21 15									
JUN	25	10	22 23	23 17	24 35	25 40	25 34					
JUL	02	05	26 06	26 05	24 03	25 07	22 17	24 19	24 24			
JUL	02	11	28 07									
JUL	04	05	14 07	15 08	17 11							
JUL	05	17	23 20	24 18								
JUL	08	05	25 08	17 12	19 09							
JUL	13	00	17 10	18 13								
JUL	13	05	18 08	16 10	14 11	13 15	11 13	14 14				
JUL	18	05	14 17	17 15	16 16	19 13	27 17	29 19	14 15	18 18	18 22	
JUL	20	04	25 44									
JUL	31	06	24 18	26 17								
AUG	03	04	23 10	23 13	25 11	22 20						
SEP	17	01	17 22	18 22	17 32	19 25						
SEP	27	11	21 23	22 20	24 11							
SEP	27	17	23 11	22 21	26 15							
OCT	14	00	25 36	25 44								
OCT	15	09	19 09	18 10	19 16	18 19	17 17	17 16	15 09	16 22	14 16	
OCT	18	03	32 11	33 13								
OCT	18	09		34 18	33 17	31 15	03 19	33 12	33 14			
OCT	24	11	19 03	10 02	05 05	06 06	11 06	11 07	14 06	18 11	21 11	
NOV	11	05	25 16									
NOV	11	11	24 11	25 12	27 13							
NOV	12	05	13 08	12 07	14 21	13 27						
NOV	14	00	35 15									
NOV	22	11	35 31									
NOV	26	11	27 12	29 18								
DEC	19	11	33 10	28 06	29 18							
DEC	20	09	22 27	23 27								
DEC	20	13	21 14	23 19	24 24							
DEC	20	17	09 03	21 05	25 09							
DEC	24	09	24 38	24 44	25 37	25 50	24 54	24 67				
			9000 METRES	8600 METRES	8500 METRES	2000 METRES	3500 METRES	15000 METRES	16500 METRES			
DEC	13	05	18 22	20 33								
DEC	15	09	14 16	12 15	22 19	27 41	27 46	28 51	28 56			
DEC	24	11	21 11	25 04	25 18							

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1949												
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES		
JAN	01	05	26 10	26 16	25 28	25 33	25 17	25 21				
JAN	01	11	00 00	27 03	26 06	25 11						
JAN	01	17	29 09	28 10	29 11	27 11	25 10	25 11				
JAN	01	23	32 10	32 13	31 13	29 13	27 13	27 19	24 19	25 15		
JAN	02	05	31 10	31 14	30 15							
JAN	02	11	32 10	31 13	31 16	31 19	33 18	31 12	31 15			
JAN	02	17	34 09	34 15	34 18	35 16	33 16	34 14	33 12			
JAN	02	23	35 09	36 16	36 19							
JAN	03	05	36 16	36 22	36 22	36 31	35 24	36 20	36 19	35 22		
JAN	03	11	36 17	01 22	01 23	36 27	01 25					
JAN	06	23	26 09	25 05	24 06							
JAN	07	05	29 10	28 12	28 17	28 14						
JAN	08	11	29 23	30 23	29 26	29 29	29 30					
JAN	09	05	26 10	25 29	25 33	24 22						
JAN	09	11	28 05	27 12	27 14	28 16	28 21					
JAN	10	11	28 13	28 15	28 17	27 19						
JAN	10	23	21 04	22 10	23 14	23 10						
JAN	11	05	22 10	22 08	22 16							
JAN	11	11	26 12	27 07	25 18	23 24	23 16	24 25	24 25			
JAN	11	17	27 18	26 31	25 23	24 27	24 24	25 30	25 34	24 37		
JAN	12	23	25 24	27 27	26 29	26 30						
JAN	13	23	26 27	26 20	24 16	25 50	23 31					
JAN	14	05	24 30	24 18	23 40							
JAN	15	05	30 23	29 29	30 26							
JAN	16	11	25 02	24 05	23 07	23 17	23 18	24 17	23 14	26 13		
JAN	16	17	18 04	18 08	18 10	18 13	21 12	22 13	23 12	21 11		
JAN	16	23	17 09	18 16	18 19	18 12	20 10					
JAN	17	05	16 07	17 12	17 12	16 09	15 08	17 09	17 10	19 10		
JAN	17	11	17 05	17 11	16 12	15 13	15 07	24 02				
JAN	17	17	14 14	14 12	14 12	13 14	13 11	11 12	12 12	13 09		
JAN	17	23	15 21	15 19	15 23	15 19	14 15	14 16	12 19			
JAN	18	05	16 23	16 20	16 25	15 23						
JAN	18	23	16 23	16 26	16 24	15 19	15 21					
JAN	19	05	16 18	17 20	17 18							
JAN	19	11	16 15	16 17	17 17	17 13						
JAN	19	17	00 00	20 05	18 04	16 04						
JAN	19	23	00 00	33 05	33 02	28 04	15 03					
JAN	20	05	32 07	32 13	32 14	33 10	34 11	33 08	31 11	31 10		
JAN	20	11	36 11	36 15	36 14	34 23						
JAN	20	23	32 20	33 23	31 29	31 35	32 31	32 32				
JAN	21	05	31 16	31 21	30 22	30 24						
JAN	21	17	29 26	29 26	29 27	29 24						
JAN	21	23	28 23	29 27	28 33	29 39	30 41					
JAN	22	05	27 16	27 19	27 20	28 20						
JAN	22	17	27 16	26 19	26 23	27 29	27 27	28 24	27 24			
JAN	22	23	32 03	33 05	31 09	29 10	29 12	27 10	29 13	29 23		
JAN	23	05	10 05	09 09	09 10	08 08	06 07	03 07				
JAN	23	11	14 24	14 28	14 31	13 28	12 19	30 12	18 09	15 12		
JAN	23	17	15 21	17 19	16 18	15 16						
JAN	23	23	10 07	15 10	15 13	17 12	17 09					
JAN	24	05	26 05	27 08	25 18	24 11	26 05	25 03	25 03			
JAN	24	11	00 00	32 04	31 06	29 07						
JAN	24	23	00 00	32 04	32 02	31 03	27 04	26 06	24 11	25 10		
JAN	25	05	32 10	31 15	31 16	29 20						
JAN	26	05	32 23	33 26	32 56	31 43	32 34					
JAN	26	17	27 24	26 33	26 35	25 37	25 39					
JAN	27	05	27 18	27 24	26 25							
JAN	27	11	29 16	28 20	28 20	28 15	27 17					
JAN	27	23	30 17	29 22	28 32	27 28	26 30	27 29				
JAN	28	23	25 16	26 08	23 13							
JAN	29	05	24 16	25 17	23 11	25 32						
JAN	29	11	25 07	26 04	23 12	25 18	24 17	24 17				
JAN	29	17	27 03	27 04	26 09	24 09	25 08					
JAN	29	23	00 00	00 00	00 00	08 01	00 00					
JAN	30	05	11 05	12 08	10 05	11 06						
JAN	30	11	04 02	03 02	03 01	04 06						
JAN	30	17	07 10	07 12	06 10	05 33						
JAN	31	05	27 31	27 33	27 48	27 48	27 49	27 47	27 43			
JAN	31	11	27 18	28 27	27 24	26 22						
JAN	31	21	27 21	28 20	27 28	27 23	26 36	26 27				
FEB	01	05	27 13	27 13	26 22							
FEB	01	11	27 14	27 18	26 22	26 20						
FEB	01	17	27 29	27 39	26 36							
FEB	01	23	27 17	27 13	27 25	27 30	27 25					
FEB	02	05	31 14	31 19	31 21	31 23	31 22	31 23				
FEB	02	23	29 16	29 17	29 19	29 22	29 24	28 27	29 27	29 24		
FEB	03	05	29 13	29 20	29 21	29 26						
FEB	03	11	02 10	02 14	36 13	35 15	35 17	35 17	35 19	34 18		

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1949												
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES		
FEB	0 4	0 5	2 9	3 3	2 8	4 2	2 8	4 7	2 8	4 7		
FEB	0 4	1 1	2 9	1 3	2 9	1 7	2 8	2 4	2 9	2 3	2 7	2 7
FEB	0 4	1 7	3 6	0 6	3 5	1 4	3 5	1 5	3 5	1 8	3 5	1 9
FEB	0 4	2 3	3 6	0 5	0 4	1 1	0 4	2 1	0 4	3 0	0 3	3 5
FEB	0 5	2 3	3 3	2 6	3 4	2 8	3 3	3 6	3 2	4 3	3 1	4 6
FEB	0 6	0 5	3 3	2 6	3 4	2 4	3 3	3 8	3 2	4 1	3 2	4 2
FEB	0 6	2 3	3 3	1 2	3 2	1 7	3 1	1 9	3 0	1 9	3 1	2 1
FEB	0 7	0 5	3 3	1 4	3 3	1 8	3 2	2 4	3 1	2 4	3 1	2 6
FEB	0 7	1 1	3 3	2 0	3 3	2 0	3 2	2 9	3 2	2 8	3 1	2 6
FEB	0 7	1 7	3 2	2 1	3 2	2 2	3 1	2 8	3 0	3 3	3 0	3 4
FEB	0 7	2 3	3 2	2 7	3 3	2 5	3 2	3 1	3 1	3 9	3 1	3 9
FEB	0 8	0 5	3 2	2 1	3 3	2 5	3 1	3 2	3 0	3 4	3 0	3 9
FEB	0 8	1 1	0 2	1 5	0 1	1 2	0 1	1 1				
FEB	0 9	0 5	3 0	2 4	3 0	2 2	2 9	3 0	2 9	3 5		
FEB	0 9	1 1	2 8	1 4	2 9	1 5	2 8	2 0	2 8	2 2		
FEB	0 9	1 8	2 9	1 3	2 9	1 6	2 8	2 1	2 8	2 5	2 8	2 3
FEB	1 0	0 5	3 4	3 0	3 4	2 9	3 3	3 6	3 2	4 3		
FEB	1 0	1 2	3 3	1 9	3 3	1 9	3 2	3 0	3 1	2 8	3 2	2 2
FEB	1 0	1 7	3 6	1 7	3 6	1 9	3 5	2 8	3 5	2 6		
FEB	1 0	2 3	2 9	1 0	2 8	1 3	2 7	1 5	2 7	1 9	2 7	2 3
FEB	1 1	0 5	2 8	2 0	2 8	2 4	2 7	2 9	2 7	3 7	2 7	3 9
FEB	1 1	2 3	2 8	1 6	2 8	1 4	2 8	1 8	2 8	2 0	2 8	2 3
FEB	1 2	0 5	2 8	1 6	2 9	2 1	2 9	2 2	2 8	1 9	2 9	1 6
FEB	1 2	1 1	2 6	0 6	2 7	0 8	2 7	1 0	2 9	1 1	3 0	1 0
FEB	1 2	1 7	0 0	0 0	2 5	0 5	2 5	0 6	2 5	0 9	2 5	1 3
FEB	1 3	0 5	2 6	1 1	2 7	1 4	2 6	2 0	2 5	3 6	2 4	1 6
FEB	1 3	1 1	3 2	1 3	3 2	1 2	3 3	1 4	3 3	1 4	3 2	1 5
FEB	1 3	1 7	3 4	2 2	3 5	1 6	3 5	2 0	3 4	1 8	3 3	2 6
FEB	1 4	2 3	2 4	1 4	3 5	1 7	3 4	2 6	3 3	2 8	3 3	2 9
FEB	1 5	0 5	3 3	2 2	3 4	2 7	3 3	3 2	3 3	3 5	3 3	4 6
FEB	1 5	1 1	3 3	2 3	3 3	2 7	3 5	2 5	3 2	2 5	3 2	3 0
FEB	1 5	2 3	3 5	2 5	3 5	2 4	3 5	3 1	3 5	4 4	3 5	4 6
FEB	1 6	0 5	3 3	2 2	3 3	2 5	3 3	3 2	3 3	3 7	3 2	4 6
FEB	1 6	1 1	3 2	2 7	3 3	2 2	3 3	2 6	3 1	2 8	3 2	3 7
FEB	1 6	1 7	3 2	2 6	3 2	3 4	3 2	3 4	3 0	3 8	3 2	3 6
FEB	1 6	2 3	3 2	2 7	3 2	2 4	3 1	2 5	3 1	3 4	3 0	3 7
FEB	1 7	0 5	3 2	2 4	3 2	2 4	3 2	2 9	3 1	2 8	3 1	3 6
FEB	1 7	2 3	3 0	1 2	3 0	1 5	3 0	1 5	2 8	1 6	2 9	2 0
FEB	1 8	0 5	2 8	1 1	2 8	1 5	2 8	1 8	2 9	1 5	2 9	1 2
FEB	1 8	1 1	0 0	0 0	2 4	0 4	2 1	0 6	2 4	0 7	2 9	1 2
FEB	1 8	1 7	0 0	0 0	2 3	0 9	2 4	1 2	2 4	1 5	2 5	1 5
FEB	1 8	2 3	3 1	1 7	3 1	1 9	2 9	2 0	2 8	1 9	2 8	2 4
FEB	1 9	0 5	2 9	1 4	2 8	1 7	2 7	2 0	2 7	1 9		
FEB	1 9	1 1	2 4	0 4	2 3	0 4	2 3	1 0	2 1	0 8	2 2	1 4
FEB	1 9	1 7	1 9	1 3	1 9	1 6	1 9	1 8	1 8	2 0	1 8	1 5
FEB	1 9	2 3	1 7	1 6	1 8	1 7	1 7	1 7	1 7	2 2		
FEB	2 0	0 5	1 7	0 5	1 7	0 7	2 2	0 4	2 0	0 9		
FEB	2 0	1 1	2 6	0 2	2 7	0 7	2 6	0 9	2 8	1 0	2 9	1 2
FEB	2 1	0 5	2 7	1 2	2 5	1 7	2 4	1 3	2 4	1 8		
FEB	2 1	1 1	1 9	0 5	2 0	0 7	2 1	0 9	2 2	1 6	2 3	1 7
FEB	2 1	1 7	2 5	0 5	2 7	1 0	2 6	1 1	2 5	1 4	2 5	1 5
FEB	2 1	2 3	3 0	1 2	3 0	1 3	3 0	1 2	2 8	1 1	2 7	1 6
FEB	2 2	0 5	3 0	1 0	3 0	1 1	2 9	1 5	2 9	1 4	2 7	1 3
FEB	2 2	1 1	2 6	0 3	2 8	0 7	2 7	1 0	2 7	0 9	2 7	1 0
FEB	2 2	1 7	2 7	0 3	2 7	0 7	2 7	0 8	2 8	1 0	2 7	0 7
FEB	2 2	2 3	3 0	2 5	3 0	3 2	2 9	4 0	3 0	2 5	3 1	2 8
FEB	2 4	0 5	2 9	3 1	2 8	3 8	2 8	4 5	2 7	4 8		
FEB	2 4	1 7	2 6	2 0	2 6	1 3	2 5	2 3	2 4	2 7		
FEB	2 4	2 3	2 7	2 0	2 7	2 5	2 7	2 5	2 5	1 7	2 6	3 3
FEB	2 6	0 5	2 8	2 6	2 8	2 5	2 8	2 7	2 7	3 7		
FEB	2 6	2 3	3 1	2 6	3 1	3 0	3 1	3 5	3 0	5 0		
FEB	2 7	1 1	2 9	1 3	2 8	2 3	2 7	3 2	2 7	3 4	2 7	4 7
FEB	2 7	2 3	3 1	1 9	3 1	2 6	3 0	3 5	3 0	3 9		
FEB	2 8	2 3	2 9	3 5	2 8	4 1	2 7	5 5	2 7	6 7		
MEI	0 1	0 5	2 7	3 2	2 7	4 2	2 7	4 5	2 6	4 4	2 5	5 0
MEI	0 1	2 3	2 5	1 0	2 6	0 8	2 4	1 0	2 5	1 5	2 5	1 7
MEI	0 2	0 5	2 8	0 9	2 7	1 0	2 7	1 0	2 6	1 5	2 6	1 7
MEI	0 2	1 1	3 2	0 8	3 2	1 1	3 1	1 2	3 1	1 5	2 9	1 3
MEI	0 2	1 7	3 4	1 5	3 4	1 9	3 3	2 4	3 3	2 3	3 2	2 3
MEI	0 4	2 3	3 0	1 3	2 9	1 7	2 9	1 7	2 8	1 9		
MEI	0 5	0 5	3 1	1 2	3 0	1 9	3 0	2 5	2 9	3 3	2 9	3 7
MEI	0 5	1 7	2 5	0 9	2 3	1 8	2 3	2 3	2 4	2 3	2 5	2 4
MEI	0 5	2 3	2 5	2 2	2 5	2 4	2 4	2 5	2 5	3 0		
MEI	0 6	0 5	2 6	2 2	2 5	2 6	2 5	1 8	2 3	1 9	2 4	3 8
MEI	0 6	1 1	2 7	2 2	2 7	2 1	2 7	2 4	2 6	2 6	2 5	3 2
MEI	0 7	0 5	2 6	2 7	2 6	3 2	2 5	4 5	2 5	3 5	2 6	2 6
MEI	0 7	1 7	2 6	1 4	2 6	1 9	2 6	2 2	2 6	2 1		
MEI	0 7	2 3	3 1	1 7	3 1	2 2	3 0	3 1	2 8	3 1		

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1949												
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES		
W	08	17	29	21	29	23	28	30				
W	08	23	30	18	29	22	28	27				
W	09	05	30	17	30	20	28	24	27	30	26	36
W	09	11	33	11	32	15	31	18	31	15	27	25
W	10	23	29	32	29	32	28	37	28	44	27	25
W	11	05	29	24	28	21	27	33	26	42	27	33
W	11	11	29	17	29	21	29	29	27	36	26	31
W	11	23	30	22	29	28	28	35	28	28	27	31
W	12	05	30	18	29	24	28	29	27	27	28	25
W	12	11	31	17	29	19	28	24	28	26	28	30
W	13	05	31	04	31	12	29	21	29	22	31	23
W	13	11	34	13	35	21	35	26	34	20	32	19
W	14	11	27	31	27	38	27	50	34	18		
W	14	23	33	18	33	20	32	30	32	31		
W	15	17	31	16	30	18	29	25	29	28	29	31
W	15	23	34	23	35	24	34	33	33	37	33	38
W	16	05	31	23	31	25	30	33	30	35	29	38
W	16	11	32	19	31	20	30	27	29	38	30	41
W	16	17	28	20	28	22	28	24	27	29	28	35
W	16	23	30	28	30	28	30	29	29	41	29	41
W	17	05	29	27	30	32	29	37	29	38	28	40
W	17	11	28	23	28	24	27	26	28	24	28	34
W	17	17	29	21	28	18	28	25	27	28	28	27
W	17	23	29	23	29	22	30	25	30	32	29	29
W	18	11	28	19	28	17	29	27	29	38	29	33
W	18	17	29	23	29	19	29	18	29	32		
W	18	23	29	23	29	21	28	31	28	36	28	39
W	19	05	27	32	26	46	26	50	26	57	25	55
W	19	11	30	21	30	24	29	33	29	33	28	28
W	19	23	30	26	29	25	29	31	29	35		
W	20	05	29	29	21	29	19	28	27	27	27	35
W	20	11	29	18	29	20	29	21	29	25	29	24
W	20	23	26	03	27	07	25	11	26	10	25	11
W	21	05	25	10	24	07	23	19	23	20	23	15
W	21	11	18	21	19	21	19	30	19	30	19	28
W	21	17	19	22	18	16	18	27	18	29	16	32
W	21	23	18	11	18	15	19	18	19	23	19	24
W	22	05	21	05	22	05	20	11	21	18	21	17
W	22	11	27	13	27	18	27	20	27	15	21	17
W	23	05	27	28	26	23	24	30	25	47	25	50
W	23	23	19	15	20	11	22	26	22	38	25	48
W	24	05	26	19	25	09	24	19	23	29	24	32
W	25	05	25	08	23	09	24	10	23	18	22	17
W	25	11	20	07	22	07	23	14			22	17
W	25	23	18	19	19	22	20	29	20	33	20	33
W	26	05	18	12	19	09	20	19	21	22	21	24
W	26	11	27	18	26	18	26	25	26	22	26	19
W	28	05	27	29	27	28	26	40	26	47		
W	28	11	28	17	28	17	27	18	28	22		
W	29	05	31	17	31	20	29	29	29	39	30	38
W	29	23	26	17	26	25	25	34	25	32	26	22
W	30	05	26	21	27	28	27	32	27	30	27	35
W	30	11	30	20	30	20	30	21	29	22	29	32
W	31	11	18	17	19	13	21	17	21	28	30	32
W	31	23	25	14	25	11	23	16	25	22	24	30
W	01	05	28	28	28	34	29	27	29	23	28	23
W	01	17	29	25	29	22	29	24	29	27		
W	02	11	28	20	27	21	27	23	24	13		
W	03	23	31	23	30	25	29	27	29	30	28	38
W	04	05	28	26	29	27	29	17				
W	05	23	28	26	28	24	28	30	27	33	28	31
W	06	05	30	13	30	19	30	19	30	23	30	18
W	06	23	31	38	32	30	32	46				
W	08	23	29	15	29	13	29	20	29	21	28	19
W	09	05	30	08	31	16	30	13	31	23	32	25
W	09	23	32	21	33	22	33	32	31	18	31	22
W	10	11	28	22	28	28	28	25	28	25	28	26
W	11	23	19	03	21	04	21	07	18	04	21	09
W	12	02	21	12	21	10	21	19	22	17	22	22
W	12	05	28	09	27	13	25	17	25	18	25	11
W	12	17	34	18	32	15	34	22			25	13
W	14	23	18	12	20	07	21	07				
W	15	05	26	12	27	07	23	06				
W	17	05	29	25	29	21	29	27				
W	19	23	29	16	29	21	28	23	29	15	29	18
W	20	05	27	22	28	21	27	28	27	34		
W	20	11	29	24	29	21	29	26				
W	21	05	29	19	29	17	28	18				

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1949												
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES		
APR	21	11	29 15	29 16	29 19	28 15	28 17					
APR	21	17	31 21	31 23	31 25	31 24						
APR	21	23	32 28	33 31	34 30	33 32	33 36	32 35				
APR	22	11	31 22	31 15	31 24	31 31						
APR	22	17	33 18	34 16	34 24	33 23						
APR	22	23	30 08	29 11	28 15	29 14	30 17					
APR	23	02	27 12	26 13	25 16	26 13	26 10					
APR	24	05	27 15	27 20	26 22							
APR	25	17	24 01	20 04	25 06	28 07	28 11	28 11				
APR	25	23	36 13	01 12	36 17							
APR	26	19	22 07	22 07	22 19	22 21	23 34	23 31	24 25	23 30		
APR	27	02	26 14	26 10	24 16	24 28	25 24					
APR	27	23	30 33	29 37	29 36	29 26						
APR	29	23	30 31	29 25	29 33							
APR	30	05	31 20	31 24	31 33	30 47	31 28					
MAY	01	05	32 27	31 26	31 37	31 68						
MAY	01	23	33 27	32 21	32 27							
MAY	03	05	27 09	28 14	28 14	27 15	27 13					
MAY	03	11	30 08	30 14	29 14	28 22	27 22	26 17				
MAY	04	01	28 34	27 40	27 40	27 40	26 22					
MAY	04	05	26 16	26 26	26 36	26 29	26 22	26 14	26 28	26 28		
MAY	04	11	28 18	28 15	28 15	27 19	27 20	27 19				
MAY	04	17	29 19	29 18	29 18	29 18	29 17					
MAY	04	23	30 24	29 28	30 26	30 30	30 31	30 28				
MAY	05	05	30 29	30 28	30 31	29 32	29 32					
MAY	05	17	29 21	29 20	28 20	28 19	28 18	28 18				
MAY	06	05	31 45	31 40	30 32							
MAY	06	17	26 20	26 19	26 21	26 26	27 26					
MAY	06	23	29 19	26 28	26 27	27 24	27 25	27 25	27 19	29 25		
MAY	07	05	26 12	23 14	24 22	23 32	24 25	24 20	24 19	24 18		
MAY	07	11	21 08	20 11	21 09	20 22	21 19					
MAY	07	17	28 08	27 18	26 19	27 20	28 13					
MAY	07	23	32 29	32 32	32 27	33 27						
MAY	08	17	22 12	22 18	22 25	23 29	23 27					
MAY	09	11	25 08	24 09	24 15	23 24	23 27	23 27				
MAY	09	23	22 02	25 06	23 13							
MAY	10	05	26 15	28 07	24 05							
MAY	10	23	28 20	25 32	25 38							
MAY	11	05	28 21	26 11	25 15	24 27	24 38					
MAY	11	11	29 16	28 19	27 24	27 26	25 35					
MAY	11	17	29 26	29 31	28 42	28 33						
MAY	11	23	30 30	29 30	29 32	28 33	28 32					
MAY	13	05	31 17	31 21	30 25	30 26	30 26	30 33	30 35	31 29		
MAY	13	11	32 19	32 19	33 26	31 30	29 23	28 32				
MAY	17	05	29 12	28 16	27 19	28 21	28 26	28 30				
MAY	17	11	31 20	30 20	30 23							
MAY	17	23	30 22	30 21	30 28	30 27	29 25	29 34	29 37	30 33		
MAY	18	05	34 18	35 19	33 24	33 28	33 31	33 34	32 29			
MAY	19	23	33 28	32 20	32 30	31 39	31 45					
MAY	20	17	29 24	28 25	28 28							
MAY	23	17	27 09	26 11	26 12	26 11						
MAY	23	23	29 10	27 07	24 11	23 15	23 15					
MAY	24	05	19 12	19 10	19 11	21 11	23 15					
MAY	24	11	13 06	14 06	09 04	09 05						
MAY	24	17	12 13	14 06	11 06	09 07	11 05	36 17	01 16	01 10		
MAY	24	23	14 13	14 13	12 13	12 10	13 02	29 03	29 04	32 10		
MAY	25	05	19 10	19 09	18 09	19 11						
MAY	25	11	00 00	22 04	27 08	25 09	24 09					
MAY	25	17	31 12	31 10	31 10	31 18						
MAY	25	23	24 17	35 18	34 24	34 25						
MAY	27	11	35 05	35 10	31 12	32 11						
MAY	27	22	31 26	31 18	31 19	31 33	30 45					
MAY	28	05	28 25	28 23	27 32	26 33	27 31	26 38	26 34			
MAY	28	11	29 22	29 18	28 21	28 32						
JUN	01	05	31 17	32 18	30 25							
JUN	04	05	28 23	25 19	24 41							
JUN	08	05	27 30	26 29	22 10							
JUN	09	05	28 27	27 20	25 29	26 33	26 30	26 34				
JUN	09	23	26 27	27 17	23 25	25 42						
JUN	10	23	32 26	32 23	32 28							
JUN	11	11	27 12	26 08	27 10							
JUN	13	23	21 10	20 11	22 22							
JUN	14	23	20 12	22 06	21 06	22 14						
JUN	15	05	28 10	26 09	24 16							
JUN	16	05	26 28	26 39	26 36	26 36	25 35	25 18				
JUN	18	24	31 12	30 13	30 11	30 12						

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1949												
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES		
JN	20	05	29 30	29 28	28 32	28 43						
JN	20	17	32 24	34 25	33 20							
JN	21	05	27 18	27 21	27 22	27 29	27 33					
JN	21	11	27 18	27 17	27 20	27 22	28 22	28 33				
JN	21	17	19 11	21 11	21 19	21 23	21 18	21 17	21 25	21 25		
JN	21	24	27 19	28 15	26 27							
JN	22	05	28 22	28 30	28 40	28 29	26 33					
JN	23	01	28 12	26 16	25 19							
JN	23	05	29 17	27 19	29 19	29 17	28 18	26 21				
JN	23	11	29 14	30 16	29 21	29 23						
JN	23	23	31 12	31 14	30 17							
JN	24	05	31 12	31 15	31 24	32 29	32 25					
JN	25	11	34 03	03 05	04 10							
JN	27	11	30 10		28 12	27 15	26 24	25 17	24 18	24 16		
JN	27	17	32 16	32 16	32 17							
JN	29	05	32 17	32 23	32 30	31 37						
JL	03	11	27 04	29 04	27 02	33 04	32 07	29 06	27 08	27 08		
JL	04	11	35 18	36 19	35 23							
JL	04	17	32 19	33 18	33 25	32 27	32 21					
JL	04	23	33 17	35 16	35 19							
JL	05	23	00 00	24 05	22 06							
JL	07	11	11 08	09 14	08 21	06 26	05 29	05 28				
JL	07	11	18 11	20 09	19 10	19 11						
JL	07	23	31 15	32 19	32 24	33 28	31 21	31 31				
JL	08	23	33 15	34 17	35 18	34 17						
JL	09	05	30 27	30 25	30 30							
JL	09	11	27 12	24 09	23 14	24 26						
JL	10	17	27 22	27 18	26 20	25 38	25 29					
JL	11	23	28 26	26 28	26 39	26 31	25 46	26 50				
JL	15	11	28 18	26 21	21 10							
JL	14	17	29 17	28 17	28 23	27 27	26 38	27 43	27 37			
JL	17	05	33 31	32 26	33 36	30 49	29 30	29 23	29 27			
JL	17	23	31 21	29 23	28 34	29 35	29 30	29 23				
JL	18	05	31 22	30 17	30 16	30 21	28 25					
JL	18	11	31 20	31 24	31 25	30 27	30 29	29 27	29 21			
JL	18	23	29 31	28 27	28 33	28 36	28 45					
JL	19	05	28 58	28 37	28 48	28 58	27 57					
JL	21	11	22 14	22 12	23 09	22 23	21 22					
JL	23	17	29 22	28 21	27 29							
JL	26	23	26 22	24 11	23 20	24 38	24 28					
JL	27	11	19 20	20 11	21 20	21 31						
JL	27	23	27 12	28 14	27 11	24 16	24 20					
JL	28	11	00 00	25 08	24 11	23 11	23 08	25 14	25 16	23 15		
JL	28	23	24 05	27 03	27 16	24 20	25 15	24 13	25 15	23 18		
JL	29	05	25 08	27 08	24 22	24 32	23 24	23 27	24 23	22 22		
JL	29	11	21 10	21 09	22 08	20 13						
JL	29	23	17 15	14 20	14 26							
JL	30	05	16 26	16 33	16 37	15 32	16 19	17 20				
JL	30	11	18 04	20 10	21 12	21 16	21 18	21 22	21 24			
JL	30	17	23 04	23 10	23 18	23 31						
JL	30	23	24 05	23 06	24 11							
JL	31	11	27 23	26 07	25 13							
JL	31	23	29 13	27 15	25 14							
JL	31	23	27 26	26 35	26 39							
ALB	02	11	19 13	19 14	18 21	19 27	20 17	19 16				
ALB	03	23	29 30	28 28	28 34	28 41						
ALB	04	05	37 27	26 27	26 40							
ALB	07	23	28 26	30 19	29 28	28 28	28 28					
ALB	08	24	33 30	33 27	33 41	31 66						
ALB	11	24	30 25	30 29	30 34	29 36	29 38					
ALB	12	05	32 22	30 28	29 34	29 31	28 38					
ALB	13	06	00 00	35 04	36 05	34 09	35 12	32 16	32 15	32 15		
ALB	13	11	13 04	14 15	14 04	15 14	18 07	19 06	21 08	26 02		
ALB	13	17	00 00	23 06	23 07	23 05						
ALB	14	05	27 25	25 18	25 30	25 25	27 20	27 24				
ALB	14	17	21 08	19 08	23 07	23 11						
ALB	14	23	18 02	20 10	19 11	20 15	19 19	18 17	15 12			
ALB	15	05	00 00	28 17	31 13	27 02						
ALB	15	11	00 00	07 04	07 05	07 05						
ALB	16	05	27 12	25 10	23 11	23 29						
ALB	19	05	34 10	34 16	33 18	32 14	32 17	30 17	28 27			
ALB	20	05	35 11	35 18	33 14	32 23						
ALB	22	05	27 16	28 22	27 25	26 19	26 21	26 30	26 27			
ALB	22	11	34 21	34 19	35 22	34 19	34 28					
ALB	25	05	22 14	26 14	22 32							
ALB	26	23	27 31	26 40	26 41	25 31						

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1949													
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES			
AUG	27	03	28 22	26 19	26 34	27 36	27 38						
AUG	28	05	27 20	28 20	27 31	26 38	26 41	26 42					
AUG	29	05	28 32	27 33	26 38	26 42							
AUG	30	05	29 15	28 24	27 29	27 28	27 37	27 47					
SEP	01	05	27 10	24 11	24 25	24 38	24 26	24 27					
SEP	01	18	30 16	28 28	28 18	28 23	28 29	25 30					
SEP	01	23	31 18	31 24	31 22	31 18							
SEP	02	05	33 24	33 22	34 28	33 47							
SEP	04	05	27 28	26 15	24 29	24 44							
SEP	04	23	31 17	32 24	33 25	31 24							
SEP	06	23	28 23	29 24	28 30	28 43	28 45						
SEP	11	05	27 17	25 16	24 27	23 21							
SEP	11	11	26 23	26 25	25 26	26 23	25 28	25 25	25 22	25 26			
SEP	11	23	28 12	30 16	29 19	29 21	28 34	28 22	28 38				
SEP	12	05	32 25	32 25	32 25	30 34	30 49	29 36	29 37	29 36			
SEP	13	23	26 20	27 11	27 18	26 22							
SEP	15	05	15 33	16 33	16 33	16 31	31 36	31 40	32 47	32 37			
SEP	16	23	14 23	17 23	16 21	24 04	18 06	16 05	23 03	24 05			
SEP	16	05	14 08	16 07	16 08	21 05	22 08	26 08	27 08	29 10			
SEP	16	11	27 09	30 15	30 15	28 14	27 07	30 07					
SEP	16	17	30 15	31 17	30 14	30 20	32 19	30 15	31 17	31 15			
SEP	16	23	32 24	33 23	32 26	32 26	32 23	32 30	31 32	31 35			
SEP	17	23	26 28	26 31	25 36	25 52							
SEP	18	05	25 18	27 05	25 13	24 26	23 13	24 17	24 19	24 24	23		
SEP	19	05	29 31	30 28	30 37	29 35	29 47	28 35					
SEP	20	23	27 14	26 19	26 28	25 23	25 18	24 13	24 10	23 10			
SEP	21	05	31 16	32 18	32 21	32 13							
SEP	21	17	29 13	30 14	33 18	31 13	33 16						
SEP	21	23	32 22	33 22	32 26	32 25	32 22	32 20					
SEP	22	17	29 21	29 30	29 33	28 28	29 28	29 27	29 32				
SEP	23	11	15 23	23 11	23 20								
SEP	23	23	24 17	24 17	24 30	23 16	24 21						
SEP	24	05	29 17	28 15	28 18	27 16							
SEP	25	05	27 31	27 23	27 27	27 39	27 44						
SEP	28	17	27 12	27 13	27 15	26 11	25 20						
SEP	29	17	30 23	30 24	30 25	29 29	29 20						
OCT	01	05	32 27	32 32	33 26	32 32	32 38						
OCT	01	11	30 20	30 22	30 29	29 28	29 30	29 30	29 33	30 35			
OCT	02	05	27 22	28 37	27 21	27 20	27 30	26 18					
OCT	02	11	30 21	29 17	29 20	29 19	28 24	27 26	27 26	30 32			
OCT	03	05	27 18	27 24	27 21	27 21							
OCT	03	11	25 10	24 03	23 17	23 19	24 25	24 26					
OCT	04	05	33 05	35 10	33 08	32 07	32 05	12 04	13 03	18 07			
OCT	04	11	05 06	05 03	05 03	05 04	05 03	10 05					
OCT	04	17	04 03	03 04	04 06	04 08	05 13	05 13	06 11				
OCT	04	23	35 09	02 07	02 10	02 11	01 14	04 12	04 15	04 08			
OCT	05	05	34 10	01 09	02 15	01 15	01 18	36 21	36 14	35 12			
OCT	06	17	19 07	23 08	21 19	22 18	23 28						
OCT	06	23	24 10	25 05	23 08	23 11							
OCT	07	05	26 11	26 18	25 20	25 20	25 24	26 30					
OCT	07	11	28 13	29 13	29 14	27 16							
OCT	07	17	30 20	30 20	30 20	29 22	28 23						
OCT	07	23	29 20	29 23	28 27	28 24	28 21						
OCT	08	05	29 20	29 24	29 28	28 25	28 27	29 28	28 40	28 37			
OCT	09	17	27 23	27 21	27 28	27 31	27 29	27 28					
OCT	09	23	27 11	27 11	27 15	28 12							
OCT	10	05	33 02	32 02	34 06	35 08							
OCT	11	23	15 09	15 13	15 12	12 11	10 08	11 06	11 05	11 05			
OCT	12	05	12 03	13 05	13 04	05 04	35 03	01 03	33 03	33 03			
OCT	12	11	00 00	29 02	34 04	30 04	31 07	29 06	26 06	25 04			
OCT	12	17	30 06	32 08	32 09	35 10	33 11	33 09	32 09	31 10			
OCT	12	23	30 10	33 13	34 12	34 07	34 13						
OCT	13	05	33 11	34 12	34 11	33 12							
OCT	13	11	35 10	35 10	35 11	36 12							
OCT	13	17	36 08	01 08	02 09	03 13							
OCT	15	05	29 06	29 06	26 08	26 06	28 06						
OCT	15	23	32 08	33 13	33 17	35 16	36 20						
OCT	16	05	09 01	06 09	04 17								
OCT	17	11	31 15	31 15	31 21	31 29	31 20						
OCT	18	11	32 08	32 14	34 11	31 07	31 11	31 15	31 13	29 20			
OCT	19	05	25 20	26 23	25 22	25 20	25 27						
OCT	20	05	29 17	29 18	29 23	29 30	28 28	28 24	27 25	27 26			
OCT	20	11	31 18	31 22	31 25	30 34	29 35						
OCT	20	23	33 19	33 22	34 31	34 20	32 30						
OCT	21	05	34 23	34 23	34 33	33 35	33 35						
OCT	21	23	32 24	32 32	31 33								

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1949												
MONTH	DAY	HOUR	SURFACE WIND	ISO METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES	2100 METRES	2400 METRES
OCT	22	05	32 24	32 33	32 34	30 40	31 35	30 44	30 50			
OCT	22	17	30 15	28 14	27 14	27 16	27 19					
OCT	23	01	27 16	28 16	28 26	28 28						
OCT	23	05	26 17	26 36	25 25	24 28						
OCT	27	23	17 15	17 16	17 15	15 06	14 09	14 08	14 08	16 09		
OCT	30	05	27 05	27 05	25 06	26 08						
OCT	30	23	27 22	27 22	27 24	26 23						
OCT	31	23	26 14	26 33	25 35	26 41						
NOV	01	05	27 20	27 24	27 22	27 16						
NOV	02	05	31 17	31 24	31 28	30 25						
NOV	02	11	31 18	31 24	31 28	30 26						
NOV	02	23	27 05	27 06	27 09	26 13	28 15	29 21	28 39			
NOV	03	05	31 17	32 21	31 23	31 22	31 19	31 20	30 22	29 30		
NOV	04	05	30 24	28 36	28 38	26 32	27 36					
NOV	05	23	31 22	30 23	30 31	30 29	30 22	30 18				
NOV	06	23	26 25	26 36	26 39	26 41						
NOV	07	05	21 08	23 09	24 12	22 25	22 19					
NOV	07	11	26 12	26 15	26 20	27 22	26 26	26 27	25 16			
NOV	07	17	26 17	26 25	26 28	25 26	25 35					
NOV	07	23	30 21	29 25	30 28	30 31						
NOV	10	23	15 05	15 08	21 17							
NOV	11	06	14 02	15 04	16 06							
NOV	13	23	31 21	32 21	31 23	31 22	31 21					
NOV	14	05	34 25	33 27	34 32	33 42	33 37					
NOV	15	05	28 22	27 28	27 27	26 38	26 35					
NOV	15	23	26 18	25 19	25 28							
NOV	17	05	23 05	24 04	23 08	24 12						
NOV	17	11	23 03	24 04	24 08	23 09	23 09					
NOV	17	23	15 07	11 09	11 10	11 11	10 07					
NOV	18	05	10 14	10 18	10 20	09 22	07 21					
NOV	19	05	09 20	09 20	19 14	22 17	21 18					
NOV	19	17	27 19	27 20	26 23	26 28	27 21					
NOV	22	05	26 21	26 19	26 33	25 28						
NOV	24	05	32 15	33 13	31 22	31 32	31 50	31 25	31 28			
NOV	24	17	27 16	26 14	26 17	26 19						
NOV	24	23	26 30	26 26	26 30	23 32	25 32					
NOV	25	05	27 19	26 20	25 45	25 42	24 27	25 23				
NOV	29	17	30 05	29 11	29 14	30 17	30 16					
NOV	29	23	34 06	34 11	33 15	32 12	32 12	32 16	32 21	32 24		
NOV	30	05	32 11	33 15	33 18	31 22	30 22	30 23	30 22			
NOV	30	11	28 13	28 15	28 22	27 23	26 22	27 23	27 20			
NOV	30	17	27 16	28 17	27 21	27 20	27 20	27 17	27 18			
NOV	30	23	29 16	29 23	28 23	28 16	28 14					
DEC	01	05	30 13	30 15	31 19							
DEC	03	05	26 05	27 05	24 05							
DEC	04	05	32 10	32 17	32 22	32 25	30 22	30 22				
DEC	05	05	31 15	31 22	31 23	31 23	31 25	30 23				
DEC	05	23	26 17	27 17	26 22	26 27	25 23	27 18				
DEC	06	05	26 14	26 15	25 13	26 18	26 15	28 15				
DEC	06	18	26 16	26 17	25 18	26 18	27 13	27 11				
DEC	07	05	27 07	29 06	26 12	25 11	26 12	26 12	26 17			
DEC	07	17	25 15	26 18	25 20	24 02	25 04	24 05	26 05	26 06		
DEC	07	23	28 06	27 11	29 11	29 13	30 16					
DEC	08	05	31 06	31 08	29 10	30 25	30 11	28 12	27 12	30 10		
DEC	08	11	00 00	35 03	35 05	35 05	32 05	33 21				
DEC	08	17	00 00	25 01	27 01	24 04	24 07					
DEC	08	22	20 04	15 04	16 05	18 05	17 04					
DEC	09	05	27 10	27 11	26 14	25 07						
DEC	09	23	31 10	31 15	31 16	30 16	30 16					
DEC	11	17	31 20	31 22	32 20	31 31	31 31					
DEC	11	23	32 22	32 22	32 22	32 24	31 26					
DEC	12	05	30 20	31 33	30 25	30 26	30 27	30 27				
DEC	12	11	30 10	29 15	30 24	30 23						
DEC	12	23	32 17	33 25	33 28	33 30	32 30					
DEC	13	11	30 22	32 06	31 18	31 34	31 33					
DEC	14	05	31 22	31 24	30 35	29 31						
DEC	14	17	27 16	27 18	27 20	28 15						
DEC	14	23	27 07	28 07	24 07	22 07	23 10	25 14				
DEC	15	06	25 07	25 08	25 12	22 11						
DEC	15	11	22 03	20 11	20 13	21 09	25 08	26 13	25 16	26 19		
DEC	15	17	24 05	23 06	23 11	23 20	24 21	25 18	25 16	26 16		
DEC	16	05	24 12	23 07	23 14							
DEC	16	11	22 07	23 04	25 13	25 19						
DEC	16	17	22 09	21 12	22 21	22 10	22 10	22 17	21 29	21 16		
DEC	16	23	20 03	20 08	21 14	21 11						
DEC	17	05	16 02	17 11	18 14	18 12						

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1949											
MONTH	DAY	HOUR	SURFACE WIND	150 METRES	300 METRES	600 METRES	900 METRES	1200 METRES	1500 METRES	1800 METRES	
DEC	17	11	21 04	21 08	21 07	21 08					
DEC	17	17	21 01	22 05	23 03	18 03					
DEC	18	05	31 05	32 08	31 09	30 06	30 09				
DEC	19	11	06 09	08 12	07 11	07 15					
DEC	19	17	10 09	10 10	10 13						
DEC	20	05	10 12	09 18	07 20	06 23					
DEC	20	11	10 12	09 15	07 20						
DEC	20	23	11 13	10 17	08 22	05 20					
DEC	27	05	29 23	28 25	28 37	28 31	28 43	27 33	27 35		
DEC	27	23	30 19	28 27	28 27	29 21	29 18	28 17	27 35		
DEC	28	05	29 18	29 23	29 32	28 29	27 29	27 28	25 33		
DEC	28	11	29 19	29 16	29 19	28 19	28 25				
DEC	28	23	36 03	05 04	03 09	01 10	01 12				
DEC	29	11	18 10	18 11	18 16	17 13	19 12	19 13	19 12	19 12	
DEC	29	17	00 00	23 02	24 05	24 11	24 11	25 20			
DEC	29	23	36 13	01 17	36 15	34 18	34 23				
DEC	31	23	31 19	32 23	31 27	30 32					

RESULTS OF PILOT BALLOON OBSERVATIONS AT MACQUARIE ISLAND YEAR 1949											
MONTH	DAY	HOUR	2100 METRES	2400 METRES	3000 METRES	3600 METRES	4500 METRES	5400 METRES	6000 METRES	7500 METRES	9000 METRES
JAN	01	23	25	15	25	15					
JAN	03	05	35	17	35	15	33	25			
JAN	16	11	29	22	30	22					
JAN	16	17	21	11	24	12	30	27	32	39	
JAN	17	05	19	08	19	08	30	05	27	14	
JAN	17	17	13	06	10	05	32	08			
JAN	20	05	32	14	32	15	32	21			
JAN	22	23	29	24	29	17	29	18	29	24	
JAN	23	11	16	09	15	10					
JAN	24	23	24	14	23	17					
FEB	02	23	29	31							
FEB	04	23	01	42							
FEB	07	05	31	26	31	26					
FEB	11	23	27	20	28	15	29	23			
FEB	12	05	28	23	28	21	28	15	29	12	
FEB	12	11	28	13							
FEB	14	23	34	34	34	40	34	44			
FEB	18	17	26	18							
FEB	19	11	27	08	25	10					
FEB	20	11	28	11	27	12	25	12			
FEB	22	05	26	14	27	15	29	19			
FEB	22	11	26	14	27	14	29	15			
MAR	02	05	27	22	27	26	26	23			
MAR	02	11	27	25	27	23					
MAR	09	05	28	29							
MAR	20	05	27	33	28	35	29	35			
MAR	08	23	29	26							
MAR	12	05	25	24	23	25	24	29	23	34	
MAY	06	23	27	30	27	32					
MAY	07	05	24	25	24	26					
MAY	13	05	29	14	28	16	29	30			
MAY	24	17	02	09	31	07	32	12	33	15	
JUN	21	17	22	22							
JUN	27	11	25	15	25	21					
JUL	03	11	27	10	27	11	26	20			
JUL	29	05	24	24							
AUG	13	06	30	18							
AUG	13	11	24	05	24	12	24	11	25	18	
SEP	15	05	32	27	33	34	35	41	35	42	
SEP	15	23	24	07	26	08	26	16	27	09	
SEP	16	05	28	10	29	06	25	08	21	08	
SEP	16	17	31	16	31	15	30	14	29	10	
SEP	16	23	31	29	31	27	30	29			
SEP	18	05	25	22							
SEP	20	23	25	14							
OCT	04	05	22	03	25	10	27	28	27	32	
OCT	04	23	04	07	02	07	33	08	29	15	
OCT	05	05	34	16	31	15	29	17	31	19	
OCT	11	23	05	08	06	09	07	10	06	15	
OCT	12	05	25	06	24	12	26	17	26	19	
OCT	12	11	27	06	27	07	24	10	25	21	
OCT	12	17	28	11	27	13	27	18	25	19	
NOV	29	23	32	25							
DEC	08	05	28	10	29	10	28	22			
DEC	15	11	25	18							

