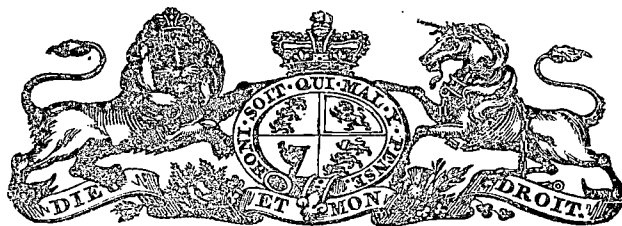


(No. 68.)



1883.

TASMANIA.

HOUSE OF ASSEMBLY.

METEOROLOGICAL OBSERVER:

REPORT FOR 1882.

Laid upon the Table by the Premier, and ordered by the House to be printed,
July 25, 1883.



REPORT of the METEOROLOGICAL OBSERVER for part of the Year 1882.

SIR,

I HAVE the honor to submit, for your information, Report, together with Tabular Returns, for the Meteorological Département for the greater part of the year 1882.

Agreeable with your instructions, I arranged for observations to be taken daily at Hobart, Southport, and Low Head, early during the year, and I have been ably assisted in the work by the officers at these out-stations.

In November last I visited Oatlands, Falmouth, and Launceston, with a view to completing arrangements for taking observations at these places. At Oatlands and Falmouth I had proper thermometer-sheds erected, and gave the officers the necessary instructions, to fit them to discharge their duties on receiving the requisite instruments from England.

Mr. Biggs and the Rev. Canon Brownrigg will render me every assistance at Launceston, and have volunteered to perform services in connection with the daily meteorological work at that place.

On arrival in the Colony of the instruments ordered some months ago from England, the full number of stations will be opened, namely,—Hobart, Southport, Oatlands, Falmouth, Launceston, Stanley, Low Head, and some suitable position on the West Coast of Tasmania.

At present the Département is worked to a disadvantage through instruments not being ready to fit up all the stations it is intended to open to complete a chain of observations. I hope shortly, however, to be in possession of the instruments ordered from England, which, on arrival in the Colony, will enable me to satisfactorily carry on the work of the Office.

Rain Stations have been established at the following places:—Botanic Gardens, Strahan, Fingal, Killymoon (Fingal), Gould's Country, Mount Nelson, and Mount Bischoff.

Maximum and minimum thermometers are registered at Mount Bischoff.

In the Report of 1882 the rainfall and number of days' rainfall are given as recorded at Mount Nelson and the Lighthouses.

The instruments in use at Hobart, Southport, and Low Head are as follows:—

Mercurial Barometers.

Maximum registering dry bulb shade Thermometer.
Minimum ditto, ditto, ditto.
Shade dry bulb Thermometer.
Shade wet ditto, ditto.

Rain Gauge.

Mr. Abbott's Standard Barometer was obtained for Hobart.

Anemometers.—Solar and Terrestrial Thermometers are ordered for Hobart and Launceston.

Daily observations are taken at 9 A.M., 3 P.M., and 9 P.M.

The readings of the 9 A.M. observations are telegraphed to Melbourne daily. Mr. R. J. Ellery, Government Astronomer, takes great trouble in making a mean of the observations he receives

from the other Colonies, and forwards to Tasmania the results, giving, at the same time, a forecast of the weather likely to occur on northern coasts of Tasmania, Bass's Straits, and southern coast of Victoria during the next 24 hours, which are posted up at the different Telegraph Stations at Hobart and Launceston, and on the N. W. Coast.

The temperature at Hobart has been recorded from thermometers placed under a verandah facing the S. W. ; but I hope that as soon as a piece of ground is allotted to me that the true temperature of the air will be given from thermometers placed under a properly constructed thermometer-shed.

I have the honor to be,
Sir,

Your obedient Servant,

J. SHORTT, *Meteorological Observer.*

The Hon. J. S. DODDS, Treasurer.

THE following interesting Phenomena were observed during the year 1882:—

April.

17th.—A very brilliant Aurora Australis was observed at 8 P.M., lasting well through the night; streamers of light ascended to the zenith from between S. E. and S. W., illuminating the heavens, and making it as light as if the moon was up.

20th.—Observed the Aurora Australis; slight, and no streamers.

May.

Heavy gales passed over Hobart from the westward on the 7th, 16th, and 17th. Snow fell on Mount Wellington on the nights of 2nd, 6th, and 31st. At 10:30 P.M. of the 14th the Aurora Australis was observed, not very brilliant, and without streamers.

June.

20th.—The heaviest fall of snow known for some 30 years fell in Hobart, to the depth of 3 inches.

July.

Snow fell heavily in Hobart on the night of the 13th, and again on the 26th, falling all day, with rain intermingling. On the night of the 28th minimum thermometer registered 31° under the verandah facing the S.W. If it had been exposed under a thermometer-shed it would have registered 28° or 29°. Very cold weather was experienced from the 28th to the 3rd of August.

August.

Rain fell heavily on the 8th, registering for the 24 hours, 1.55 inches. Thick fogs in the beginning of the month. Observed a large meteor, of vivid and brilliant light, at 7 P.M. of the 5th.

September.

Gales and strong squalls from N. W., with showers, mostly all through the month. Snow fell on Mount Wellington and on the hills around Hobart several times in the month.

The great Comet of 1882 was observed in Tasmania in the beginning of September. At first it appeared with a tail of about 3 degrees in length, and nucleus small,—the nucleus increasing in brightness, and the tail to a great length, though not seen in Tasmania by the unaided eye in daylight. In Melbourne it was discerned near the sun in daylight by the unaided eye, and when in close proximity it was observed to pass round the sun with great rapidity, and at a comparatively small distance from his body. After passing, as seen in emerging from his rays, there was an immense increase to its former brilliancy and to the length of the tail. Its motion then became gradually slower, and brilliancy diminishing, but was still to be observed at the end of the year, and likely to be visible for some time.

October.

2nd.—From 8 P.M. to midnight the Aurora Australis was visible, giving a bright red light, between south and west.

The planet Venus was visible by the naked eye in the daytime frequently during the month, and in the latter part it was so brilliant that on looking near its position it was quickly discovered. Snow fell heavily at Oatlands on the 17th, fully 7 inches in parts.

November.

Large spots on the sun were visible, on the 11th, at the time of the annular eclipse of the sun.

12th.—Slight Aurora.

December.

The observations of the Transit of Venus on the morning of the 7th were taken by Mr. E. J. White, Assistant Astronomer of the Melbourne Observatory, in the Barracks at Hobart, on the Monument site, a few yards distant from where Professor Harkness obtained his observations of the Transit of Venus in 1874. The following account of the Transit was furnished by Mr. E. J. White :—

“The weather, which for some days previously had been of a most unpromising nature, seemed to clear up for the occasion, and the sun rose nearly in a cloudless sky. Venus was seen on the sun’s disc directly after he rose. Owing, however, to the low altitude and cold, the images were for some time very indistinct. As the time of internal contact approached, the definitions very much improved, and Venus was observed to pass over the sun’s edge; owing to atmospheric disturbance there was no appearance of ligature or black drop. The contacts took place geometrically.

The internal contact at egress was observed to take place at 5h. 51m. 46s. A.M., and the external contact at 6h. 11m. 35s. A.M., when Venus passed off the sun. The observations were very satisfactory.”

Very favourable observations of the Transit were taken in Launceston by the Reverend Canon Brownrigg and Mr. A. B. Biggs, giving the following results :—

	<i>Rev. Brownrigg.</i>			<i>Mr. A. B. Biggs.</i>		
	<i>h.</i>	<i>m.</i>	<i>s.</i>	<i>h.</i>	<i>m.</i>	<i>s.</i>
Internal contact at egress	5	49	36·5	5	50	50
External contact.....	6	8	44·5	6	9	35

5th—Heavy thunder-storm passed over Hobart, and again on the 31st, when a house was struck by lightning. At Government House and New Town the storm of hail was very heavy, the stones of great size.

J. SHORTT, *Meteorological Observer.*

The Hon. J. S. Dodds, Treasurer.

SCHEDULE of Returns furnished with this Report :—

1. Summary of Observations taken at Hobart from 1st April to 31st December, 1882.
2. Ditto Southport, ditto.
3. Ditto Low Head, 1st June to 31st December, 1882.
4. Rainfall.
5. Mean and Extreme Results at Hobart.
6. Maximum Temperature of Air (in shade) at Hobart on each day.
7. Minimum ditto, ditto, ditto.
8. Rainfall at Mount Nelson and the Lighthouses for the Year 1882.
9. Summary of Direction of the Wind at Hobart during each month.

METEOROLOGY.

TABLE No. 1.

SUMMARY OF METEOROLOGICAL OBSERVATIONS TAKEN AT HOBART DURING PART OF THE YEAR 1882.

Latitude, 42° 53' 24' S.; Longitude, 147° 20' 7" E. Height of Observatory above Mean Sea Level, 180 feet. Barometer corrected to 32° Fahrenheit, and reduced to Mean Sea Level.

1882.	MEAN OF BAROMETER.			MEAN SHADE TEMPERATURE OF AIR.			MEAN HUMIDITY.	THERMOMETERS IN SHADE.						RAIN.		PREVAILING WINDS.		CLOUDS.	DEW POINT.	PRESSURE OF VAPOUR.
	9 A.M.	3 P.M.	9 P.M.	9 A.M.	3 P.M.	9 P.M.	Month.	Maximum.	Mean Maximum.	Minimum.	Mean Minimum.	Mean Diurnal Range.	Mean Temperature of Month.	Total Fall.	No. of Days Rain fell.	Direction.	Force.	Amount.		
April	Inches. 29·716	Inches. 29·671	Inches. 29·699	° 55·8	° 58·3	° 52·1	·814	74·8	61·5	37·0	45·2	16·3	54·4	Inches. 0·9	13	West and Calm.	1·3	0-10 5	° 48·5	·946
May	29·704	29·641	29·655	48·4	53·7	48·6	·816	62·5	55·4	34·8	43·0	12·4	50·2	5·91	16	South and West.	1·8	5·9	45·9	·297
June	29·791	29·746	29·754	42·6	49·6	44·7	·823	58·2	50·3	33·0	38·3	12·0	45·6	2·415	13	West.	1·5	6	40·4	·251
July	29·669	29·660	29·696	44·3	50·3	43·8	·785	59·0	50·9	31·0	38·9	12·0	44·5	2·141	13	N.W. & S.W.	2·3	5·25	38·1	·230
August	29·861	29·809	29·834	46·6	51·9	45·8	·821	60·8	52·2	33·6	40·7	11·5	48·1	4·82	12	N.W. & South.	1·4	6	42·9	·276
September	29·515	29·461	29·504	51·6	56·2	49·7	·754	67·2	58·3	37·2	44·2	14·1	52·4	2·93	18	N.W.	3·4	6·6	44·8	·297
October	29·729	29·683	29·743	56·4	58·3	51·6	·732	72·0	61·0	37·5	46·3	14·7	55·5	3·79	13	N.W. & S.E.	2·5	6	47	·323
November	29·847	29·783	29·856	63·9	63·9	53·8	·724	88·0	69·7	42·0	51·6	18·1	61·7	2·05	13	W.N.W. & E.S.E.	2·4	5·5	53·1	·404
December	29·628	29·579	29·644	64·0	64·2	57·0	·745	86·3	69·9	45·7	53·2	16·7	61·7	2·608	16	W.N.W. & E.S.E.	1·8	7	53·5	·410
Mean	29·718	29·670	29·709	52·6	56·3	49·7	·779	69·9	58·8	36·9	44·6	14·2	52·7	Total, 27·564	Total, 127	W. N. W. & S.E.	2	5·9	45·8	·315
Mean of the three Recordings	29·699			52·9										Mean, 3·063	Mean, 14					

TABLE No. 2.

SUMMARY OF METEOROLOGICAL OBSERVATIONS TAKEN AT SOUTHPORT DURING PART OF THE YEAR 1882.

Latitude 43° 26' S. ; Longitude, 147° 1' E. Height of Observatory above Mean Sea Level, 50 feet. Barometer corrected to 32° Fahrenheit, and reduced to Mean Sea Level.

1882.	MEAN OF BAROMETER.			MEAN SHADE TEMPERATURE OF AIR.			MEAN HUMIDITY.	THERMOMETER IN SHADE.						RAIN.		PREVAILING WINDS.		CLOUDS.	DEW POINT.	PRESSURE OF VAPOUR.
	9 A.M.	3 P.M.	9 P.M.	9 A.M.	3 P.M.	9 P.M.	—	Maximum.	Mean Maximum.	Minimum.	Mean Minimum.	Mean Diurnal Range.	Mean Temperature of Month.	Total Fall.	No. of Days of Rain-fall.	Direction.	Force.	Amount.		
April.....	Inches. 29·774	Inches. 29·754	Inches. 29·775	54·2	57·0	52·4	·929	°	°	37·0	44·6	°	54·4	Inches. 2·35	14	W., S.W., & N.E.	0—12 2·3	0—10 7·2	° 52·4	·394
May.....	29·653	29·613	29·633	50·3	52·2	47·0	·921	62·0	56·0	30·0	43·2	12·8	51·5	5·42	20	West and Calms	2·5	7·0	49·2	·351
June.....	29·784	29·732	29·763	47·9	50·7	47·0	·809	57·0	52·0	30·0	38·9	13·1	48·4	3·82	12	N.W., S.W., & Calms	2·0	6·5	42·8	·275
July.....	29·631	29·595	29·672	46·6	49·0	45·8	·750	57·0	51·3	28·0	38·2	13·1	47·1	4·12	23	N.W., S.W., & Calms	2·6	6·8	39·6	·243
August.....	29·829	29·751	29·810	48·0	53·6	46·1	·793	63·5	53·0	31·0	38·0	15·0	49·0	2·84	14	N.W., S.W., & Calms	1·6	6·5	42·9	·276
September.....	29·479	29·440	29·468	53·3	53·0	49·0	·675	66·0	57·5	35·0	42·3	15·2	51·8	5·37	21	N.W. and W.S.W.	3·8	6·7	41·3	·261
October.....	29·694	29·676	29·709	56·8	56·7	51·0	·717	75·0	59·8	37·0	44·5	15·3	54·9	3·51	12	N.W., S.W., & East	3·3	6·2	45·9	·309
November.....	29·808	29·756	29·819	61·4	64·1	57·2	·729	94·0	67·6	40·0	47·6	20·0	60·5	1·90	8	West and East	3·0	6·0	51·8	·385
December.....	29·588	29·551	29·617	61·9	61·0	56·1	·802	82·0	66·8	41·0	50·3	16·5	59·6	2·30	13	Westerly.	3·4	6·8	53·5	·410
Mean.....	29·693	29·652	29·696	53·4	55·3	50·2	·792	69·6	58·0	34·3	43·1	15·1	55·2	Total, 31·63	Total, 137	Westerly.	2·7	6·6	46·6	·323
Mean of the three Recordings.....	29·680			52·9										Mean, 3·51	Mean, 15					

TABLE No. 3.

ANNUAL SUMMARY OF METEOROLOGICAL OBSERVATIONS TAKEN AT LOW HEAD DURING PART OF THE YEAR 1882.

Latitude, 41° 3' S.; Longitude, 146° 48' E. Height of Observatory above Mean Sea Level, 25 feet. Barometer corrected to 32° Fahrenheit, and reduced to Mean Sea Level.

1882.	MEAN OF BAROMETER.			MEAN SHADE TEMPERATURE OF AIR.			MEAN HUMIDITY.	THERMOMETER IN SHADE.					RAIN.		PREVAILING WINDS.		CLOUDS.	DEW POINT.	PRESSURE OF VAPOUR.	
	9 A.M.	3 P.M.	9 P.M.	9 A.M.	3 P.M.	9 P.M.	Each Month.	Maximum.	Mean Maximum.	Minimum.	Mean Minimum.	Mean Diurnal Range.	Mean Temperature of Month.	Total Fall.	No. of Days of Rain-fall.	Direction.	Force.			Amount.
June	Inches. 30·007	Inches. 29·954	Inches. 29·982	° 45·5	° 52·1	° 47·2	·926	° 54·0	° 50·9	° 36·0	° 39·5	° 11·4	° 48·3	Inches. 1·55	8	W. & S.E.	0-12 3·8	0-10 4·0	° 46·3	·314
July	29·924	29·896	29·945	47·1	52·8	47·8	·861	59·0	51·0	31·5	39·2	11·8	47·6	3·99	16	W.N.W. & S.E.	4·3	4·6	43·6	·281
August	30·077	29·998	30·020	46·7	52·0	47·7	·884	59·0	53·2	32·0	40·0	13·2	48·9	4·13	18	W. & S.E.	3·4	5·3	45·6	·306
September.....	29·821	29·773	29·811	50·8	53·2	49·8	·854	61·0	56·0	33·5	43·4	12·6	51·2	3·04	18	W. & W.N.W.	5·2	4·8	46·9	·322
October.....	29·960	29·917	29·965	54·1	55·8	50·6	·893	65·5	59·0	37·0	45·6	13·4	53·5	1·31	12	W.N.W. & S.E.	4·1	4·5	50·4	·366
November.....	30·063	30·030	30·078	59·9	62·3	55·9	·869	75·0	65·5	43·0	53·0	12·5	59·4	2·09	6	W.N.W. & N.E.	3·3	3·5	55·6	·443
December	29·861	29·816	29·848	61·7	64·0	57·4	·829	76·0	67·5	47·0	52·2	15·3	61·0	1·82	9	W.N.W. & E.S.E.	3·5	4·6	56·7	·461
Mean	29·959	29·912	29·950	52·3	56·0	50·9	·874	64·2	57·6	37·1	44·7	12·9	52·8	Total, 17·93	Total, 87·0	W.N.W. & S.E.	3·9	4·5	49·3	·356
Mean of the three Recordings	29·940			53·1										Mean, 2·56	Mean, 12·3					

TABLE No. 4.

TABLE OF RAINFALL OF TASMANIA DURING PART OF THE YEAR 1882.

Showing the Latitude and Longitude, and Distance from Sea Coast of each Station, and Number of Days Rain fell during each Month, and Total Rainfall.

Name of Station.	Latitude, South.	Longitude, East.	Distance from Sea Coast.	TOTAL.		JANUARY.		FEBRUARY.		MARCH.		APRIL.		MAY.		JUNE.		JULY.		AUGUST.		SEPT.		OCTOBER.		NOVEMBER.		DECEMBER.			
				Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.
				No.	Inches.	No.	Inches.	No.	Inches.	No.	Inches.	No.	Inches.	No.	Inches.	No.	Inches.	No.	Inches.	No.	Inches.	No.	Inches.	No.	Inches.	No.	Inches.	No.	Inches.	No.	Inches.
Hobart	42 53 24	147 20 7	10	127	27.566	—	—	—	—	—	—	13	0.90	16	5.91	13	2.415	13	2.141	12	4.82	18	2.93	13	3.79	13	2.05	16	2.61		
Southport	43 26 0	147 1 0	Coast.	137	31.63	—	—	—	—	—	—	14	2.35	20	5.42	12	3.82	23	4.12	14	2.84	21	5.37	12	3.51	8	1.90	13	2.30		
Falmouth	41 32 0	148 19 0	Coast.	61	12.77	—	—	—	—	—	—	—	—	—	—	4	0.76	9	1.21	17	4.91	9	1.26	7	1.68	5	1.55	10	1.40		
Fingal;	41 40 0	147 48 0	23	91	22.565	7	1.065	4	5.05	6	1.23	9	1.18	7	1.50	4	0.92	8	1.48	12	2.80	8	1.83	7	1.39	4	1.31	15	2.81		
Killymoon, Fingal	41 35 0	148 10 0	9	105	25.29	—	—	3	5.79	8	1.60	5	1.05	8	1.44	7	1.40	11	1.17	19	5.91	13	1.26	7	1.09	8	2.35	16	2.23		
Botanical Gardens, Hobart....	42 52 0	147 19 50	12	135	24.62	9	1.065	4	1.015	9	0.65	9	0.58	14	4.49	10	1.88	11	1.52	14	3.09	18	2.45	12	3.16	10	1.81	16	2.91		
Oatlands	42 18 0	147 24 0	28	87	12.46	—	—	—	—	—	—	—	—	—	—	9	1.27	10	1.10	15	2.47	17	1.69	15	1.95	10	2.35	11	1.63		
Low Head	41 3 0	146 48 0	Coast.	86	17.93	—	—	—	—	—	—	—	—	—	—	8	1.55	15	3.99	18	4.13	18	3.04	12	1.31	6	2.09	9	1.82		
Circular Head	40 43 0	145 17 0	Coast.	101	21.25	—	—	—	—	—	—	—	—	—	—	9	1.17	19	5.82	19	4.11	23	4.54	12	2.56	9	1.39	10	1.66		
Strahan, Macquarie Harbour	42 11 0	145 17 0	2	146	46.53	—	—	—	—	13	2.09	14	4.73	21	7.00	13	4.34	26	6.62	5	1.81	24	8.63	12	3.84	9	3.27	9	4.20		
Mount Bischoff...	41 25 0	145 34 0	28	206	74.82	—	—	—	—	15	3.34	16	5.27	26	14.55	17	5.69	25	11.53	23	4.52	29	14.30	21	6.27	15	3.53	19	5.22		

TABLE No. 5.

MEAN AND EXTREME RESULTS FOR THE LAST NINE MONTHS OF THE YEAR 1882.
From Observations taken at Hobart.

<i>Barometer—</i>	
Highest reading	30.389 inches, on 19th May.
Lowest ditto	28.874, on 7th May.
Range for Nine Months	28.876, on 27th September.
Average for Nine Months.....	1.515
	29.692
<i>Thermometer—</i>	
Maximum in Shade	88°, on 10th November.
Minimum ditto	31°, on 29th July.
Range for Nine Months	57°
Highest mean daily reading for one month.....	61.7°, November and December.
Lowest ditto, ditto, ditto	44.5, July.
Mean temperature for Nine Months	52.7
<i>Humidity—</i>	
Mean Maximum for month (saturation = 100) .....	.823 in June.
Mean per Nine Months, ditto.....	.779.
<i>Rain—</i>	
Total for the Nine Months	27.566 inches.
Total Number of Rainy Days	127
Maximum fall for one month.....	5.91 inches, May.
Minimum ditto ditto	0.90 inches, April.

TABLE No. 6.

MAXIMUM TEMPERATURE OF THE AIR (IN SHADE) AT HOBART ON EACH DAY IN THE YEAR 1882.

Latitude 42° 53' 24" S., Longitude 147° 20' 7" E. Distant from Sea Coast, 10 miles.

Day of Month.	Jan.	Feb.	Mar.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
1.	—	—	—	69.0	53.0	47.5	53.0	45.0	58.5	55.3	79.0	67.5
2.	—	—	—	60.0	58.0	51.0	59.0	47.6	56.0	60.0	55.0	69.8
3.	—	—	—	58.0	62.5	52.0	53.8	44.4	55.4	52.9	63.0	60.2
4.	—	—	—	55.0	54.2	54.0	53.8	48.2	60.3	57.4	66.2	60.3
5.	—	—	—	50.0	52.0	53.0	53.0	49.0	59.2	65.6	65.5	72.2
6.	—	—	—	51.0	57.5	53.0	51.8	49.2	63.8	60.6	71.2	77.8
7.	—	—	—	57.0	62.0	48.0	56.5	47.3	53.4	55.9	61.0	65.2
8.	—	—	—	60.5	45.5	49.2	54.3	49.8	50.8	63.4	67.0	73.6
9.	—	—	—	65.0	51.2	52.0	52.0	54.2	55.4	70.4	80.0	80.3
10.	—	—	—	64.0	52.0	52.0	51.2	47.8	57.0	65.0	81.7	79.2
11.	—	—	—	74.8	55.0	49.5	51.2	48.0	60.8	58.2	88.0	67.0
12.	—	—	—	67.5	62.5	50.0	54.0	47.2	58.6	59.0	72.6	59.5
13.	—	—	—	62.5	58.8	52.6	54.2	49.0	61.3	63.7	66.0	72.4
14.	—	—	—	62.0	47.8	50.0	47.2	51.8	49.6	67.2	66.0	74.7
15.	—	—	—	62.8	52.0	49.0	45.0	54.0	52.4	62.0	74.0	69.0
16.	—	—	—	59.6	58.8	46.0	50.5	52.5	56.6	59.4	68.0	66.0
17.	—	—	—	60.0	62.5	40.0	50.5	51.2	61.8	72.0	72.0	65.3
18.	—	—	—	57.8	61.0	44.2	50.5	53.0	64.5	68.0	75.5	64.5
19.	—	—	—	63.5	55.0	47.0	54.2	54.0	58.7	67.4	72.8	66.0
20.	—	—	—	56.0	53.0	46.5	52.5	57.6	59.4	62.8	58.0	65.2
21.	—	—	—	62.0	52.0	49.8	51.0	58.2	63.3	48.8	59.0	62.0
22.	—	—	—	66.0	61.2	47.0	47.6	59.5	67.2	53.0	66.2	66.2
23.	—	—	—	66.5	59.4	54.2	49.2	56.8	57.2	55.0	70.0	71.2
24.	—	—	—	69.0	53.2	53.5	53.5	56.4	60.8	54.3	67.2	70.8
25.	—	—	—	63.0	53.0	52.0	54.4	59.8	62.3	59.4	67.0	68.6
26.	—	—	—	63.5	56.0	51.8	54.4	60.8	52.6	63.8	70.0	73.0
27.	—	—	—	59.5	53.4	50.3	42.0	54.8	58.4	66.2	74.3	73.8
28.	—	—	—	49.0	53.0	51.5	45.0	51.0	63.3	53.2	82.0	82.2
29.	—	—	—	53.0	55.0	58.2	46.0	51.8	53.2	59.0	69.2	86.3
30.	—	—	—	52.0	56.3	54.3	44.0	54.1	58.8	62.2	64.3	66.7
31.	—	—	—	—	52.0	—	41.5	53.5	—	70.4	—	71.3
Mean of each Month	—	—	—	60.6	55.4	50.3	50.9	52.2	58.4	61.0	69.7	69.9

The highest reading 88°, on November 10th. The lowest 40°, on June 17th.

TABLE No. 7.

MINIMUM TEMPERATURE OF THE AIR (IN SHADE) AT HOBART ON EACH DAY OF THE YEAR 1882.

Day of Month.	Jan.	Feb.	Mar.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
1.	—	—	—	50·0	37·0	39·5	35·7	34·8	43·2	44·3	47·3	53·6
2.	—	—	—	44·0	42·5	41·0	49·8	35·5	42·6	41·8	48·5	52·2
3.	—	—	—	44·0	47·0	42·5	42·6	36·4	49·4	42·2	45·8	52·2
4.	—	—	—	45·0	44·6	44·0	41·0	39·0	47·8	46·5	51·8	50·5
5.	—	—	—	39·0	42·5	38·0	41·8	40·3	48·4	53·4	47·5	56·8
6.	—	—	—	39·0	47·5	36·0	40·0	43·0	45·8	45·0	49·7	60·5
7.	—	—	—	37·0	44·0	38·0	45·3	40·0	39·2	47·3	48·8	45·7
8.	—	—	—	47·0	40·0	34·5	42·0	36·0	41·7	51·0	49·3	52·2
9.	—	—	—	43·0	40·0	36·0	35·2	36·4	39·0	48·0	59·8	64·8
10.	—	—	—	47·0	39·5	33·0	33·8	36·8	42·8	48·5	63·2	51·7
11.	—	—	—	49·0	38·5	34·0	33·8	33·6	42·6	43·6	64·2	51·6
12.	—	—	—	53·0	48·5	45·0	42·0	34·4	47·5	45·2	53·5	51·0
13.	—	—	—	44·0	41·0	37·5	41·0	35·8	42·8	46·5	45·8	53·7
14.	—	—	—	49·2	42·5	39·0	35·2	42·4	38·2	50·8	50·0	56·6
15.	—	—	—	46·0	40·0	37·0	39·0	42·9	37·2	43·4	54·0	53·0
16.	—	—	—	47·0	44·0	33·0	40·0	42·4	42·8	46·0	42·0	52·6
17.	—	—	—	40·0	54·7	33·5	39·0	43·5	46·5	51·2	52·0	46·2
18.	—	—	—	49·0	49·0	37·6	38·0	41·4	45·5	54·2	55·2	52·4
19.	—	—	—	47·0	37·0	39·0	40·0	42·4	46·0	48·5	52·5	55·2
20.	—	—	—	46·0	34·8	42·6	38·0	42·4	45·0	43·8	51·0	47·2
21.	—	—	—	47·0	37·0	34·4	38·2	48·4	53·8	42·8	49·0	50·8
22.	—	—	—	46·0	42·5	35·0	36·0	43·0	50·2	37·5	53·0	52·7
23.	—	—	—	48·5	44·4	40·8	38·0	40·5	44·0	47·3	49·2	59·2
24.	—	—	—	49·6	45·5	42·5	48·5	41·8	50·0	46·0	50·0	52·8
25.	—	—	—	43·0	45·0	37·0	42·5	44·6	41·8	42·0	50·8	48·3
26.	—	—	—	48·0	48·8	42·0	35·0	49·4	41·4	50·5	50·8	53·2
27.	—	—	—	41·0	47·0	37·0	35·0	42·8	49·6	43·6	58·2	55·4
28.	—	—	—	39·0	39·0	39·0	38·6	43·2	45·7	37·5	62·2	59·7
29.	—	—	—	39·5	47·0	48·0	32·5	45·2	37·6	41·2	50·8	53·0
30.	—	—	—	40·0	43·8	34·0	31·0	41·8	43·2	44·4	43·4	47·2
31.	—	—	—	—	40·0	—	36·0	40·7	—	56·7	—	54·8
Mean of each Month.	—	—	—	44·9	43·1	38·3	38·9	40·7	44·4	46·2	51·6	53·1

The lowest reading (31°) was on the morning of 30th July ; the highest (64·8°) on 8th December.

TABLE No. 8.

TABLE OF RAINFALL AT LIGHTHOUSES AND MOUNT NELSON FOR THE YEAR 1882.

Showing the Number of Days Rain fell during each Month, and Total Rainfall.

1882.	KING'S ISLAND.		KENT'S GROUP.		GOOSE ISLAND.		SWAN ISLAND.		SOUTH BRUNI.		MOUNT NELSON.	
	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.	Wet Days.	Rainfall.
January	No. 13	Inches. 0·75	No. 5	Inches. 0·57	No. 3	Inches. 0·44	No. 9	Inches. 1·18	No. 12	Inches. 3·00	No. 8	Inches. 1·64
February	6	0·22	4	0·64	2	0·95	3	2·06	11	1·50	3	1·51
March	10	0·70	6	0·53	8	0·97	8	0·95	10	1·15	4	0·49
April	14	1·61	8	3·33	8	1·09	8	1·38	18	4·15	7	0·99
May	21	3·25	17	2·85	13	2·08	15	2·17	20	6·00	14	3·99
June.....	11	1·09	7	1·80	5	0·69	8	0·97	16	4·75	6	1·84
July.....	16	3·66	13	2·73	17	2·69	14	3·63	21	4·85	10	1·70
August	17	3·20	15	3·19	11	2·17	16	2·68	12	2·65	11	5·14
September	20	1·81	19	2·82	16	2·19	15	2·67	20	4·35	11	6·13
October	13	1·04	8	1·55	10	1·05	8	0·80	9	2·30	8	3·98
November	8	1·72	7	2·26	7	1·71	8	1·59	11	2·68	6	2·89
December	11	0·76	11	1·35	9	1·13	7	1·53	17	2·68	12	3·21
TOTAL	160	19·81	120	23·62	109	17·16	119	21·61	177	40·06	100	33·51

TABLE No. 9.

SUMMARY OF DIRECTION OF THE WIND AT HOBART DURING EACH MONTH IN THE YEAR 1882.

DIRECTION.	JANUARY.			FEBRUARY.			MARCH.			APRIL.*			MAY.			JUNE.			JULY.			AUGUST.			SEPTEMBER.			OCTOBER.			NOVEMBER.			DECEMBER.			Total in each Direction.
	9 A.M.	3 P.M.	9 P.M.	9 A.M.	3 P.M.	9 P.M.	9 A.M.	3 P.M.	9 P.M.	9 A.M.	3 P.M.	9 P.M.	9 A.M.	3 P.M.	9 P.M.	9 A.M.	3 P.M.	9 P.M.	9 A.M.	3 P.M.	9 P.M.	9 A.M.	3 P.M.	9 P.M.	9 A.M.	3 P.M.	9 P.M.	9 A.M.	3 P.M.	9 P.M.	9 A.M.	3 P.M.	9 P.M.	Amount.			
North	1	...	...	1	...	5	1	...	1	3	1	2	2	1	3	...	4	1	3	1	4	1	1	...	0	2	38	
North West	5	5	4	8	10	7	8	14	7	14	12	8	16	9	5	18	23	15	20	13	12	7	5	2	11	4	3	265
West	5	6	6	8	7	10	3	2	6	8	8	7	1	...	1	7	2	4	1	1	1	4	4	2	7	3	3	117
South West.....	1	3	3	3	2	4	4	3	4	2	5	3	1	2	3	...	...	1	...	1	2	...	2	1	1	3	1	55
South.....	1	1	1	2	4	3	2	4	7	1	...	1	3	6	3	...	1	1	2	...	3	...	2	3	1	...	2	54
South East.....	2	...	...	...	...	...	1	...	...	1	...	...	6	1	...	2	...	4	12	...	7	11	4	5	9	1	66	
East.....	1	2	1	1	1	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	3	3	3	3	9	1	30	
North East.....	1	2	1	1	2	...	1	...	...	...	1	1	...	...	1	...	...	...	...	...	2	1	1	...	1	1	17	
Calms	10	2	8	8	4	7	7	5	6	5	1	10	7	5	14	2	2	5	3	...	12	3	1	13	3	2	17	162	

* First six days not recorded.

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