Colony of Fiji.

ANNUAL METEOROLOGICAL REPORT

FOR THE YEAR 1933.

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BY
E. W. G. TWENTYMAN, F.R.MET.SOC.,
HARBOUR MASTER, SUVA.

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1933

METEOROLOGICAL OBSERVATIONS.

SUVA.

OBSERVATIONS are taken at 2030 and 0330 G.M.T., or 8.30 a.m. and 3.30 p.m., Standard Time at Suva, Fiji, in Latitude 18 degrees 8 minutes South, Longitude 178 degrees 26 minutes East, Local Standard Time being 12 hours fast of Greenwich Mean Time. Height of cistern of barometer above Mean Sea Level, 20 feet; Site of Rain-gauge 8 feet; Diameter of Rain-gauge 8 inches; Height of other instruments above ground:—Rim of Rain-gauge 1 foot; Thermometers 4 feet 6 inches; Sunshine Recorder 3 feet 3 inches; Dines Pressure Tube Anemometer 48 feet 6 inches.

The site and the exposure of the instruments are "conventional."

Pressure.—Readings are reduced to 32 degrees F., 45 degrees Latitude and Mean Sea Level. Barograph No. L.526 by Messrs. Short & Mason is in use.

Temperatures.—Maximum read and set at 8½ h., and entered to the previous day. Hygrograph No. H.4228 by Messrs. Short & Mason is in use.

Minimum—Read and set at 8½h., and entered to day of reading.

Maximum in Sun—Read and set at 8½ h., and entered to the previous day.

Grass Minimum—Set at 15½ h., and read at 8½ h., the following day, and entered to the day or reading.

Vapour Pressure, Dew Point and Relative Humidity.——Computed from "*Hygrometric Tables,*" published by the Meteorological Office, London, 1924 (M.O. 265). An ordinary Hygrograph and a Hair Hygrograph are in use.

Rainfall—Measured at 8½ h., and 15½ h., The amount measured at 8½ h., is entered to the previous day, and the amount measured at 15½ h., is entered to the day of reading. Definition of day with rain=0·01 in. or more. An Automatic Syphon Raingauge was brought into use on January 14th, 1930.

Day of Clear Sky—cloud amount less than two-tenths.

Day of Overcast Sky—cloud amount greater than eight-tenths.

Wind.—A Dines Pressure Tube Anemometer is in use. The method adopted by the Meteorological Office, London, for condensing winds, read to 16 points to 8 points, is in use.

Sunshine.—A Campbell-Stokes' Sunshine Recorder is in use.

THE SECOND INTERNATIONAL POLAR YEAR.

(AUGUST, 1932, TO AUGUST, 1933.)

At the request of the Meteorological Office, London, additional observations are being taken at certain fixed hours G.M.T. Observations have been taken fairly regularly at 1 h., 13 h. and 19 h. G.M.T., and on the "term" days of the first and second orders at 13 h. G.M.T. These observations are published in this report and Greenwich date and time is used. In observing the clouds, the total amount of cloud of different levels is entered together with the directions from which they are coming, thus: 3/6 ci/ci-st/cu-nb W/E would be read as 3 cirrus and cirro—stratus, coming from the West and 6 cumulo-nimbus, coming from the East.

At the usual observation hours, 2030 and 0330 G.M.T., as there is insufficient space to denote separate cloud levels, the total amount of cloud only is entered; the direction, however, of different levels is given thus: 6 ci/cu SW/NE would show that cirrus clouds were coming from S.W., whilst the cumulus clouds were moving in the opposite direction.

The additional observations for the 1933 part of the Polar Year are published in this report.

MONTHLY MEANS FOR THE YEAR 1933, SUVA STATION, TAKEN AT 8.30 A.M. AND 3.30 P.M.

Months.	Mean Pressure in Inches. (Reduced to 32° Faht., 45° Lat. & M.S.L.		Air Temperature (F°) Mean Dry Bulb.		Mean Wet Bulb.		Means of Max.	Means of Min.	Mean.	Absolute Max. & Min. Max.	Date.	Min.	Date.	Mean Dew Point.		Mean Vapour Pressure in Millibars.		Mean Relative Humidity (Saturation = 100)		Mean Amount of Cloud. (0—10)	
	8·30	3·30	8·30	3·30	8·30	3·30								8·30	3·30	8·30	3·30	8·30	3·30	8·30	3·30
January ..	29·769	29·710	81·5	85·7	75·4	77·0	88·1	75·0	81·5	96	10	72	19	72·5	73·2	27·3	28·1	74·5	66·7	5·7	6·4
February	29·771	29·708	82·0	84·3	77·6	78·5	88·3	76·3	82·3	92	7, 13, 14	75	1/5, 10, 13 14,16,18,27	75·8	75·9	30·4	30·6	81·3	76·8	6·4	8·1
March	29·796	29·735	80·5	83·2	76·9	77·7	86·3	75·3	80·8	91	5	72	25	75·3	75·3	30·0	30·0	84·1	77·8	7·0	7·7
April	29·875	29·808	78·9	80·7	75·9	76·7	83·9	73·9	78·9	92	12	71	1	74·7	75·3	29·3	29·8	86·6	83·7	7·5	8·8
May	29·954	29·882	76·4	79·1	73·1	74·2	81·7	72·0	76·9	86	26	68	22	71·5	71·8	26·4	26·8	85·4	79·2	6·7	7·6
June	29·983	29·913	75·0	77·2	70·8	71·9	80·0	71·0	75·5	87	9	67	6,16,17,28	68·6	69·1	24·0	24·5	81·0	77·0	6·8	8·1
July	30·014	29·941	72·6	76·3	67·7	69·3	78·6	67·5	73·0	86	22	62	16	64·6	65·0	21·1	21·3	77·2	68·3	7·0	5·9
August ...	30·050	29·970	73·9	76·9	69·7	70·7	79·3	68·6	73·9	88	10	65	1,4,7,19,20	67·4	67·2	23·1	22·9	80·4	72·7	7·0	7·0
September	30·025	29·951	76·0	78·1	70 7	71 7	81·5	70·8	76·1	88	10	65	1, 2	67·6	68·5	23·4	23·8	76·3	72·6	7·6	7·4
October ..	29·978	29·896	76·7	78·6	71·9	72·6	81·3	71·1	76·2	87	20	64	7	68·8	69·5	24·3	24·8	77·1	74·0	7·9	7·5
November	29·889	29·821	80·0	81·1	74·6	74·9	85·4	72·6	79·0	90	3, 17	69	14	72·0	71·8	26·8	26·8	77·3	74·8	6·4	7·3
December	29·852	29·790	81·0	82·9	76·2	76·6	85·9	74·6	80·2	92	31	72	16	74·0	73·7	28·7	28·5	79·8	74·6	6·5	7·3
Year ...	29·913	29·844	77·9	80·3	73·4	74·3	83·4	72·4	77·9	..	..	..	..	71·1	71·4	26·2	26·5	80·1	74·9	6·9	7·4

Months.	Mean Bright Sunshine (hours and tenths.)	Weather. No. of days of Hail.	Thndr Strms	Gales	Clear Sky 8·30	Clear Sky 3·30	Overcast 8·30	Overcast 3·30	Wind. Number of Observations of N. 8·30	N. 3·30	N.E. 8·30	N.E. 3·30	E. 8·30	E. 3·30	S.E. 8·30	S.E. 3·30	S. 8·30	S. 3·30	S.W. 8·30	S.W. 3·30	W. 8·30	W. 3·30	N.W. 8·30	N.W. 3·30	Calms. 8·30	Calms. 3·30
January	7·6	0	2	0	3	3	6	10	1	1	4	4	13	15	3	7	0	3	1	1	2	0	0	0	7	0
February	6·1	0	4	0	0	0	10	16	7	5	4	6	4	7	1	1	1	4	1	0	3	1	1	1	6	3
March	4·8	0	4	0	0	0	12	15	10	3	6	9	4	12	0	1	0	1	0	2	2	2	0	0	9	1
April	3·2	0	3	0	0	0	14	21	4	5	11	3	4	11	1	6	0	2	0	0	0	0	1	0	9	3
May	4·1	0	1	0	2	0	13	18	8	2	4	6	6	12	1	5	1	3	0	1	0	1	0	0	11	1
June	3·5	0	0	0	1	1	12	19	2	3	6	5	6	12	3	4	1	4	0	0	1	2	0	0	11	0
July	5·5	0	0	0	1	5	16	12	5	2	1	7	8	13	4	4	0	5	0	0	0	0	0	0	13	0
August	4·9	0	0	0	3	0	16	13	8	2	4	6	6	12	4	6	2	3	1	2	0	0	0	0	6	0
September	4·8	0	1	1	0	0	10	12	3	0	5	2	8	14	10	14	0	0	0	0	0	0	0	0	4	0
October	4·6	0	1	0	0	0	18	15	2	1	7	3	14	20	4	5	0	1	0	1	0	0	2	0	2	0
November.....	7·0	0	9	0	0	0	5	10	4	2	9	5	5	16	2	5	1	0	1	0	1	1	0	0	7	1
December	6·8	0	5	0	0	0	7	11	2	1	8	4	13	19	1	3	0	2	0	2	0	0	1	0	6	0
Year	5·2	0	30	1	10	9	139	172	56	27	69	60	91	163	34	61	6	28	4	9	9	7	5	1	91	9

EXTREMES FOR THE YEAR.

Highest Pressure—30·165° on June 27th at 8.30 a.m.
Lowest Pressure—29·471° on January 10th & March 27th at 3.30 p.m
Highest Temperature in Shade—96° on January 10th.
Lowest Temperature in Shade—62° on July 16th.

Greatest Range—20° on July 22nd and August 4th and 10th.
Least Range—2° on April 27th.
Greatest Amount of Rain in 24 hours—7·64" on December 15th.
Maximum Wind Velocity—43 miles per hour (force 8) from W. at 2·14 p.m. on September 10th.

METEOROLOGICAL OBSERVATIONS TAKEN AT SUVA, FIJI,

DURING

JANUARY, 1933.

JANUARY.

Day.	Air Pressure at Mean Sea Level in the Units of Measurement.		Temperature (degrees F.)										Humidity.					
			In Screen.				Max.	Min.	In Open.		In Ground.							
			Dry.	Wet.	Dry.	Wet.			Grass Min. Eve to Morn.	Max. in Sun Black Bulb in vacuo.	I		Dew Point.		Vapour Pressure.		Percentage.	
	I	II	I		II						1 foot.	4 feet.	I	II	I	II	I	II
			Tenths.				Whole Degrees.				Tenths.							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.		
1	29·595	29·551	78·0	75·0	83·0	76·4	86	74	73	152	82·9	82·8	74	74	28·3	28·3	86	73
2	29·636	29·606	82·0	76·0	86·0	77·8	87	77	73	151	83·1	82·8	73	75	28·0	29·2	75	68
3	29·693	29·656	82·0	74·0	83·6	76·0	88	78	74	155	83·7	82·5	70	73	25·1	27·8	67	70
4	29·698	29·677	81·2	75·2	78·2	74·0	86	75	71	157	83·0	82·6	72	72	27·0	26·9	75	81
5	29·751	29·707	79·8	73·0	81·4	75·4	86	73	71	152	82·8	82·7	69	72	24·6	27·0	71	75
6	29·759	29·695	81·8	74·2	86·8	78·0	88	73	70	155	82·3	82·3	71	74	25·8	28·8	69	66
7	29·757	29·679	80·0	74·0	84·6	75·0	88	75	74	165	83·1	82·2	71	71	26·0	25·9	74	62
8	29·703	29·624	81·4	74·4	87·0	77·0	88	73	69	148	82·9	82·3	71	72	25·6	27·2	71	62
9	29·633	29·540	83·2	76·2	88·8	79·8	91	77	75	156	83·7	82·3	73	76	27·5	31·0	72	66
10	29·570	29·471	85·4	78·4	94·0	80·4	96	77	76	164	84·0	82·5	75	74	29·6	28·8	72	54
11	29·575	29·553	84·0	76·4	85·2	79·8	88	78	73	156	84·3	82·7	73	77	27·8	32·0	70	78
12	29·701	29·660	81·2	75·6	85·6	79·0	87	75	72	156	84·0	83·0	73	77	27·7	31·5	77	77
13	29·738	29·721	80·0	74·4	82·0	74·0	84	73	69	154	83·8	83·4	72	70	26·7	25·1	76	67
14	29·844	29·770	80·0	72·4	84·8	74·2	86	73	70	158	83·2	84·0	69	69	23·9	24·5	68	59
15	29·853	29·802	79·0	74·0	83·6	75·4	87	73	70	156	84·0	83·7	72	72	25·7	27·1	79	67
16	29·836	29·767	79·9	74·1	85·4	76·0	88	75	74	158	83·8	83·4	71	71	26·0	25·9	75	64
17	29·816	29·769	80·6	74·0	87·2	75·8	88	76	72	153	84·0	83·3	71	70	25·6	25·8	72	59
18	29·795	29·722	84·0	73·8	87·9	74·2	88	76	71	151	84·4	83·3	69	68	24·2	23·2	60	50
19	29·798	29·707	83·0	74·0	87·6	77·0	89	72	69	152	85·0	83·5	70	73	24·7	27·6	64	61
20	29·819	29·733	78·2	76·0	85·8	77·2	88	75	72	159	85·0	83·0	75	74	29·8	28·4	90	67
21	29·799	29·735	82·2	77·0	85·0	78·0	86	77	74	131	85·0	84·0	75	75	29·5	29·6	78	72
22	29·793	29·744	83·2	77·8	86·8	76·2	89	77	74	156	83·2	84·0	75	72	29·8	26·5	78	60
23	29·822	29·763	83·0	75·2	88·0	77·8	89	75	72	150	84·0	83·0	71	74	26·1	28·3	69	62
24	29·837	29·781	84·0	75·0	87·2	76·6	89	74	71	153	83·0	82·0	71	72	25·7	26·5	64	61
25	29·826	29·762	79·0	75·0	88·8	78·2	90	74	70	153	86·0	85·0	73	74	27·9	28·6	83	61
26	29·843	29·774	80·0	77·0	91·6	79·2	93	76	73	154	86·0	84·2	76	75	30·3	29·6	87	56
27	29·867	29·812	81·5	78·0	85·0	78·8	88	75	73	147	84·0	83·5	76	77	30·7	31·2	85	75
28	29·893	29·831	80·0	75·5	81·0	76·0	85	74	73	151	85·0	84·0	74	74	28·2	28·4	81	79
29	29·875	29·805	82·8	76·4	86·4	78·2	88	74	72	151	84·2	84·0	74	75	28·3	29·2	74	68
30	29·871	29·795	82·0	77·0	86·8	77·8	88	75	74	153	84·0	82·5	75	74	29·5	28·8	79	65
31	29·847	29·785	85·0	77·0	81·8	77·8	88	76	73	155	84·5	83·0	73	76	28·1	31·0	69	83
Totals	922·843	920·997	2527·4	2336·0	2656·9	2387·0	2730	2325	2237	4762	2601·9	2577·5	2247	2272	843·7	869·7	2310	2068
Means	29·769	29·710	81·5	75·4	85·7	77·0	88·1	75	72·5	153·6	83·9	83·1	72·5	73·3	27·3	28·1	74·5	66·7

METEOROLOGICAL SUMMARY FOR MONTH OF JANUARY, 1933.

Highest Pressure—29·893″ at 8.30 a.m. on 28th.
Lowest Pressure—29·471″ at 3.30 p.m. on 10th.
Highest Temperature in Shade—96° on 10th.
Lowest Temperature in Shade—72° on 19th.
Mean Daily Range—13·1°.
Greatest Range—19° on 10th.
Least Range—9° on 21st.
Mean Temperature for Month—81·5°.
Greatest Humidity—90 per cent. at 8.30 a.m. on 20th.
Least Humidity—50 per cent. at 3.30 p.m. on 18th.
No. of Days of—Rain, 19; Hail, 0; Thunderstorms, 2; Fog, 0; Gales (force 8 or more), 0.

RAINFALL:—Total, 4·84″; average, 11·44″ for 49 years; difference from normal—6·60; greatest fall in 24 hours, 1·54″ on 26th.

VISIBILITY SUMMARY—NO. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8.30 a.m.	0	0	0	0	0	0	0	0	0	0	0	3	25	3
3.30 p.m.	0	0	0	0	0	0	0	0	0	1	0	5	22	3

Standard Distance of Objects used for Estimate of Visibility:—X—Nil, A—27 yards, B—55 yards, C—110 yards, D—220 yards, E—550 yards, F—1,100 yards, G—1¼ miles, H—2½ miles, I—4½ miles, J—6¼ miles, K—12½ miles, L—18¾ miles, M—31 miles.

AMOUNT OF CLOUD.

Hour.	Number of cases of total cloud amount of.				
	0	1/3	4/6	7/9	10
8.30 a.m.	1	5	11	13	1
3.30 p.m.	0	7	8	13	3

JANUARY.

Wind Direction and Force (Beaufort Scale). I		II		Weather (Beaufort Letters). At time of Observation I.	During day I to II.	At time of Observation II.	During night II to I.	Cloud. Amount (0–10). I	II	Form. I	II	Direction whence coming. I	II	Amount of Rain. 7 hours during day measured at 15h. 30m.	17 hours measured next morning at 8h. 30m.	Sunshine. Hours and tenths.	Visibility. I	II	State of Ground. I	II	Day.
(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	
Dir.	Fc.	Dir.	Fc.											in.	in.						
Calm	0	E.S.E.	3	o	c,o	o	orv,c	9	10	cu/nb	a-st/cu/nb	E.	S.E.	..	0·04	2·1	K	L	2	1	1
S.E.XE.	3	S.S.E.	3	c	c	c	cp,bc	8	8	ci/cis/f-cu/cu	ci/ci-s/f-cu/c	W/ESE	W/SE	..	0·04	9·2	L	L	1	0	2
S.E.XE.	3	E.S.E.	3	bc	cp	c	c,b,bc	6	7	fr-cu/cu-nb	c./cu/cu-n	E.S.E.	WNW/E	0·04	..	4·6	L	K	0	5	3
E.XS.	3	N.E.	3/4	bc	bc,c,o	o	oird	5	10	cu/cu-nb	nb	E.	E.N.E.	..	0·46	7·0	K	I	0	0	4
E.XN.	2	N.E.	3	o	o	o	o,c,bc	9	9	st-cu	cu-nb/nb	E.	E.N.E.	Trace	..	1·8	L	K	1	0	5
E.XN.	2	E.	3/4	bc	bc,b	b	c,or	4	3	fr-cu/cu	cu	E.N.E.	E.N.E.	..	0·24	10·4	L	K	0	0	6
E.N.E.	2	E.	3	o	c,bc,b	b	c,bw	9	3	cu/cu-nb	fr-cu/cu	E.N.E.	E.	..	Trace	5·3	L	L	1	0	7
E'ly	1	E.XS.	3/4	bc	bc,b	b	c,o,b	4	3	ci/fr-cu	ci/cu	W/E	N.E.	..	..	11·9	L	L	5	0	8
N.N.E.	3	N.E.	4	b	b,bc	b	c,l,bc	3	6	ci/fr-cu	cu/cu-nb	N.E.	N.	Trace	Trace	9·7	L	L	0	0	9
N.XE.	3/4	N.N.W.	4	bc	bcq	bcyq	bc,cl	5	5	ci/ci-s/a-cu/	ci/cu	W/N	NW/NNE	..	..	11·0	L	L	0	0	10
Calm	0	S.W.XS.	3	c	bc,cp	c	bc,bw	8	7	ci/ci-s/cu/n	ci/cu/cu-n	W.N.W.	N.W.	0·04	Trace	4·7	L	K	0	0	11
Calm	0	S.XW.	4	b	b,bc,c	c	cp,bw	1	6	ci-cu-l/cu	s-cu/cu/cu-n	N.W.	W.N.W.	..	0·05	10·1	L	K	0	0	12
W.S.W.	2	S.XW.	3	b	bc,o	o	or,bc,b	1	9	fr-cu	nb	W.	S.	..	0·02	5·8	K	L	5	0	13
W.XS.	2	S.E'ly	2/3	b	b,bc	bcy	c,o,bw	2	6	ci/ci-s/cu	cu/cu-nb	NW/W	N.N.E.	..	..	10·0	L	L	0	0	14
Calm	0	S.E'ly	3	bc	bc,c,o	o	ov,r,c	5	9	fr-cu/cu/cu-	cu/cu-nb	S.E.	E.S.E.	..	0·16	5·6	L	M	0	0	15
E'ly	2	E.S.E.	3	c	c,b,bc	bc	ov,c	7	6	fr-cu/cu-nb	ci/a-cu/cu/c	S.E.	W/E	..	Trace	6·9	M	L	1	0	16
E.S.E.	2/3	S.E.XE.	3	c	c,bc	bcy	cv,bc	8	4	cu-nb/nb	ci/a-cu/fr-cu	E.S.E.	NW/NW	..	..	9·3	M	M	0	0	17
E.S.E.	3	E.S.E.	2/3	bcv	b,bcv	byv	bv	4	1	fr-cu/cu	fr-cu	E.S.E.	E.S.E.	..	..	11·8	M	M	0	0	18
E.XN.	1	E.S.E.	3	b	b	b	or	..	1	...	fr-cu/cu	...	E.S.E.	..	0·36	11·6	L	L	0	0	19
W.S.W.	2	E.N.E.	3	o	or	o	o,c	9	9	ci-cu/nb	fr-cu/st-cu	NE/W	E.	0·16	..	2·2	L	L	0	0	20
E.XN.	2	E.	2	o	o	o	o,bc	10	10	cu/st-cu	cu/cu-nb	E.	N.E.	..	0·05	...	L	L	0	0	21
N.E.	3	E.	3	c	bc	c	o,bc	7	8	ci-st/cu	ci/cu/cu-nb/	NE/ENE	NE/ENE	..	..	8·8	L	L	0	0	22
E.	2	E.XS.	3	bc	bc,b	b	b,bc	5	1	ci/fr-cu	cu	NE/NE	E.XN.	..	..	10·7	L	L	0	0	23
E.XN.	1	E.XS.	3	bc	bc,b	b	b	5	3	ci/ci-cu/cu-n	ci/fr-cu/cu	NE/NE	W/ESE	..	..	10·8	L	L	0	0	24
Calm	0	S.E.XE.	3	b,c	b,bc	bc	b,p	3	6	ci-cu	ci/cu	N.E.	W/E	..	0·02	11·3	L	L	0	0	25
Calm	0	E.S.E.	4	b	b	bcy	o,r,bc	4	6	ci/ci-cu	ci/st/fr-c/cu-	N.E.	E/ENE	..	1·54	9·8	L	L	0	0	26
Calm	0	E.	3	bc	bc,o	o	o,r	5	9	ci/fr-cu/cu	a-st/cu-nb/n	N/N	N.E.	..	0·17	4·6	L	L	0	0	27
N.E.XN.	2	N.N.E.	3/4	o	o	o	o,bc	9	9	ci-st/f-cu/cu-	fr-cu/cu-nb	E/N	N.	0·08	..	4·5	L	L	1	0	28
E.N.E.	2	E.	2	c	c,r	c	bc,r	8	7	cu/cu-nb/nb	ci/a-st/cu/c	E.	NE/E	0·06	0·62	8·0	L	L	0	0	29
E.XN.	2	E.	3	c	bc	c	bcp	8	7	fr-cu/cu/cu-	ci/cu/cu-nb	E.	N/NE	0·06	0·22	9·0	L	L	1	0	30
E.	2	E.	3	bc	c,r	o	bct,l,p	7	9	ci-cu/cu/cu-	a-st/cu-nb/n	E/E	E.	0·11	0·30	6·5	L	L	0	1	31
...	..	...	..	...	...	...	...	178	197	...	...	...	...	0·55	4·29	235·0	..	..	..	..	Totals
...	..	...	..	...	...	...	...	5·7	6·4	...	...	...	...	..	..	7·6	..	..	..	..	Means

WIND SUMMARY.

	Force 8 or more.	4/7.	1/3.	Calms.	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
8.30 a.m.	0	1	23	7	1	1	2	2	11	2	2	0	0	0	0	2	1	0	0	0
3.30 p.m.	0	8	23	0	0	1	3	1	11	6	4	1	2	0	1	0	0	0	0	1
	0	9	46	7	1	2	5	3	22	8	6	1	2	0	1	2	1	0	0	1

Prevailing Direction, E.; 8.30 a.m., E.; 3.30 p.m., E.

KATA THERMOMETER OBSERVATIONS IN "SCREEN."

Time of Observations between 9h. and 9h. 30m. F. 464.

JANUARY, 1933.

Date.	Cooling Power. Dry Kata.	Wet Kata.	Date.	Cooling Power. Dry Kata.	Wet Kata.
1	..	..	17	4·0	14·3
2	..	..	18	3·7	16·7
3	3·9	15·5	19	..	..
4	3·2	12·1	20	4·3	12·7
5	4·7	18·0	21	5·6	11·9
6	4·9	18·1	22	..	..
7	..	..	23	6·9	15·7
8	4·8	15·5	24	3·1	11·4
9	4·4	15·5	25	..	..
10	..	..	26	11·0	14·0
11	5·0	12·1	27	7·9	12·7
12	5·7	12·0	28	..	..
13	5·5	17·8	29	7·7	11·2
14	4·8	16·0	30	6·5	10·1
15	..	..	31	6·6	9·9
16	4·3	16·9			
Totals	..	..	..	118·5	310·1
Means	..	..	..	5·4	14·1

WEATHER DIARY—JANUARY, 1933.

Date.

1. Lightning to about 0300. Thin drizzle 0248 to 0520 and 0745 to 0758. Variable squally winds force 0/3 from 0228. N.E. airs 0836 veering E.S.E. increasing force 3/4. Light rain 1658 to 1710. Cloudy all day and night. Unusual visibility between 1730 and 1920.
2. Cloudy to overcast all day with ci/ci-st/cu/cu-nb clouds and gentle to moderate breeze varying between S.S.E. and E. Light passing showers 1825 and at 2120, then sky began to clear.
3. Early morning fine, half cloudy and gentle to moderate S.E. by E. breeze, backing N.E. 1400 falling off, increasing force 3/4 from E.S.E. 1457, very gradually falling off to force 2. Light passing shower 1422 to 1430. Half to three-quarter cloudy during the day, clear night.
4. Early morning fine, half cloudy. Calm 0220. Light E.S.E. breeze 0412, increasing force 3, 0720 from E. varying between E. by S. and N.E. force 1/4 after 1418 and sky covering. Variable winds force 1/3 after 1920. Intermittent rain and drizzle 1620.
5. Intermittent rain and drizzle to 0335. Northerly airs in early morning. E.N.E. airs 0625, veering Easterly increasing force 2/3, falling off 2200. Cloudy to overcast all day. Half cloudy night.
6. Early morning fine, half cloudy and Northerly airs to calm. Light to gentle Easterly breeze 0735 increasing force 3/4, backed N.E. 1633 force 2/3, falling off 2300. Cloudy night. Lunar Corona 2120. Light rain 2212 to 2342.
7. Variable winds force 1/3 in early morning. Light rain 0342 to 0440. Light E.N.E. breeze 0648, increasing force 3, veering Easterly falling off 1700 backing Northerly. Half to a quarter cloudy all day and night.
8. Fine all day and half to a quarter cloudy. Northerly airs in early morning. Variable Easterly airs 0758, increasing force 3/4, falling off 1700, backing N.E. Pale sunset. Cloudy night.
9. Early morning fine, clear and Northerly airs veering N.E. 0515 force 2. Thence variable winds between N.E. and N. force 2/4. Cloudy evening sky as deep blue especially to N.E. between 1800 and 1930. Lightning to W.S.W. 1925 to about 2300.
10. Early morning fine, half cloudy and gentle N.N.E. breeze gradually backing N.N.W. force 3/5 squally, falling off 1815 veering N.E. force 1/2. Cloudy evening, clearing 2000. Lightning to N. 2025 to about 2300.
11. Early mornin cloudy, light variable squally winds mainly N.E. falling off 0735 backing S. by W. increasing force 3/4 from S.W. falling off 1620. Passing showers 1345 to 1438. Wind increased suddenly force 4/5 from S.W. 1744 falling off 1918 increasing force 2/3 from W. 2022 falling off 2120. Rainbow to east 1640. Lunar Corona observed occasionally between 2030 and 2200. Clear and cloudless after 2230. Dew about 2300.
12. Early morning fine, clear and Northerly airs to calm. Light Southerly breeze at 0919 gradually increasing to force 5 at 1700 and veering to W. falling off at 2138 to Northerly airs. Passing showers between 1740 and 1830. Rainbow to East 1745. Brilliant colouration of sky after sunset. Clear night. Dew about 2330.
13. Fine clear and cloudless in early morning and Northerly airs. Light Westerly breeze 0748 backing S.W. and increasing to force 4 at 1612 falling off and backing S.S.E., increasing to force 3 from S.S.W. 1832 falling off and veering N. Westerly. Cloudy to overcast after 1130. Light rain 1620 to 1623. Moderate break on reef all day.
14. Early morning fine and clear, light Westerly breeze veering N.N.W. force 1, gradually backing after 0715 to South increasing force 2/3, then backing S.E. variable gradually falling off 1700 backing N.N.E. Cloudy to overcast night. Moderate break on reef all day.
15. Lunar Corona observed 0030. Early morning fine, clear, Northerly airs to calm and dew on grass S.S.E. breeze 0917, backing S.E. variable increasing force 2/3, falling off and backing Northerly 1932. Sky gradually covered after 1400. Unusual visibility 1600 to 1900. Red sunset. Light rain 1908 to 1920 and 2340.

Date.

16. Light rain to 0135. Variable Northerly airs in early morning. Light variable E.S.E. breeze 0830 increasing force 3, gradually falling off to force 1/2 after 1720, veering S.E. Cloudy to overcast night. Unusual visibility 1550 to nightfall. Reddish glow to S.W. after sunset to about 1950.
17. Early morning fine, cloudy and S.E. breeze force 1/2, backed N.E. 0648 veering E.S.E. 0705 and increasing force 3, gradually falling off force 1/2 1808. Half cloudy during day cloudy and unusual visibility, then half cloudy after 2030.
18. Early morning fine, half cloudy and unusual visibility. Light Easterly breeze veering to E.S.E. and increasing to force 3, backing and falling off to Southerly breeze at 2110. Pale sunset and unusual visibility. Evening fine and clear.
19. Early morning fine, clear and cloudless. Dew, Northerly breeze veering E. at 0755 and increasing force 3, gradually falling off to force 1/2. Red sunset. Overcast evening. Rain 2340 to 2355.
20. Intermittent rain to 0440. Early morning overcast, Northerly variable breeze to 0735, increasing force 2 from West; backing N.E. and increasing force 4 at 1400 then gradually falling off to force 2. Rain between 0812 and 0845. Cloudy to overcast all day. Red glow after sunset. Evening half cloudy to cloudy.
21. Early morning half cloudy. Variable Northerly breeze froce 1/2 to 0700 backing E. and increasing force 2/3, falling off to force 1 and backing N.E. at 2015. Half cloudy to cloudy all day. Pale sunset. Half cloudy evening.
22. Early morning half cloudy. Gusty N. Easterly breeze force 2/3 veering E. and increasing force 4 falling off and backing N.E. at 1900 to force 1. Rain between 0335 and 0340. Rainbow to N.W. at 0630. Pale sunset and cloudy evening.
23. Early morning half cloudy and Northerly airs to 0735 veering E. and increasing force 4 falling off and backing N. by E. at 1912. Evening clear, fine.
24. Early morning fine clear and cloudless. Dew. Northerly airs to 0820 veering S.E. and increasing force 3 gradually falling off to Northerly airs at 2120. Cloudless nearly all day. Pale sunset. Unusual visibility in evening. Clear cloudless night.
25. Light Northerly airs to 0900 backing S.E. and increasing force 2/3 falling off to Northerly airs 1940. Evening clear and fine. Lightning to W. from about 2230 to 2400.
26. Lightning to W. from 0000 to about 0130 and to E. from 0300 to about 0345. Shower of rain between 0310 to 0322. Northerly airs to 0900. Veering E. and increasing force 4 at 1300 gradually falling off to force 1 and backing N.N.E. at 1820. Sky became overcast after 1630. Rain from 2200 to 2210.
27. Rain between 0020 and 0055 and heavy rain between 0125 and 0220. Squall from E.N.E. force 3/4 between 0130 and 0140, then variable N.N. Easterly breeze breeze force 1/2 veering E. and increasing force 4 at 1500, falling off to force 2 at 1745, backing E.N.E. and increasing force 4 at 1920, falling off to variable Northerly airs at 2120. Reddish sunset. Thunder and lightning from about 1930 to 2330.
28. Passing showers between 0020 and 0405, 0730 and 0735 and 1400 and 1405. Unusual visibility at 0700. Variable N. Easterly breeze to 0820, increasing force 5 at 1500, falling off and backing to Northerly airs at 1900. Cloudy all day. Pale sunset with red glow to E.
29. Northerly airs to 0835 veering E.S.E. and increasing force 3, gradually backing and falling off to Northerly airs at 2000. Passing showers between 2130 and 2325. Pale sunset. Evening clear to 2100.
30. Northerly airs to 0800 veering E. and increasing force 3/4, falling off at 2400 to variable N. Easterly airs. Light passing showers between 1400 and 2400. Half cloudy to cloudly all day. Rainbow to E. 1830. Evening half cloudy.
31. Variable Northerly airs to 0600 veering E. and increasing force 4, falling off at 1700 to force 2, then variable N. Easterly breeze to 2400. Passing showers between 0135 and 0205 and from 1405 to 2345. Thunder and lightning all day.

METEOROLOGICAL OBSERVATIONS TAKEN AT SUVA, FIJI,

DURING

FEBRUARY, 1933.

FEBRUARY.

Day.	Air Pressure at Mean Sea Level in the Units of Measurement.		Temperature (degrees F.)										Humidity.					
			In Screen.				Max.	Min.	In Open.		In Ground.		Dew Point.		Vapour Pressure.		Percentage.	
			Dry.	Wet.	Dry.	Wet.			Grass Min. Eve. to Morn.	Max. in Sun Black Bulb in vacuo.	1							
	I	II	I		II						1 foot.	4 feet.	I	II	I	II	I	II
			Tenths.				Whole Degrees.				Tenths.							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18
	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.		
1	29·817	29·771	80·0	77·0	81·6	75·8	89	75	70	156	84·0	83·0	76	73	30·3	28·0	87	76
2	29·821	29·766	82·0	76·5	86·0	79·8	90	75	72	155	84·0	83·0	74	78	28·7	32·3	77	75
3	29·871	29·818	79·0	76·5	76·0	75·2	84	75	72	126	84·0	82·5	75	75	30·1	29·2	89	96
4	29·865	29·797	83·0	77·2	76·0	74·6	90	75	72	153	83·0	82·0	74	74	29·0	28·5	76	93
5	29·869	29·811	82·8	77·6	81·4	76·8	91	75	72	157	82·0	83·6	76	72	30·5	27·0	78	75
6	29·851	29·777	83·0	77·8	87·2	78·4	90	76	72	153	83·0	83·0	76	74	30·5	28·8	78	67
7	29·888	29·835	84·8	78·2	89·6	79·2	92	77	73	153	84·0	82·5	76	75	30·4	29·7	73	62
8	29·963	29·890	85·0	78·0	89·0	80·2	90	78	75	158	85·0	84·0	75	76	29·6	31·0	72	67
9	29·967	29·867	85·0	79·0	89·5	79·2	90	78	75	155	85·0	83·5	77	74	31·2	28·6	76	62
10	29·943	29·863	82·2	77·5	89·0	78·0	89	75	74	159	85·0	83·5	76	73	30·2	27·9	80	60
11	29·890	29·818	84·0	78·0	86·0	79·5	90	77	76	157	84·5	82·5	75	77	30·1	31·5	76	74
12	29·859	29·799	85·0	78·8	81·0	77·6	91	76	73	155	84·8	84·0	77	76	31·2	30·7	73	85
13	29·831	29·747	82·0	77·5	86·0	79·4	92	75	72	159	83·0	82·0	76	77	30·2	31·5	81	74
14	29·841	29·727	84·8	78·0	91·0	80·8	92	75	72	155	84·0	83·0	75	76	29·6	30·5	69	63
15	29·787	29·717	82·0	77·0	84·8	79·4	89	76	74	153	83·5	82·0	75	77	29·5	32·0	79	78
16	29·805	29·754	81·5	77·5	82·0	78·8	88	75	72	163	82·0	81·0	76	78	31·0	32·5	83	86
17	29·759	29·744	79·0	76·0	84·0	77·8	86	76	73	154	85·0	83·0	76	75	29·3	30·1	86	75
18	29·737	29·653	81·2	76·5	82·8	77·4	91	75	73	152	84·5	84·0	75	75	29·2	29·8	82	77
19	29·635	29·568	79·2	77·2	85·0	80·0	87	76	75	149	84·6	84·8	76	78	30·8	32·8	91	80
20	29·633	29·563	80·2	78·0	83·8	79·8	87	77	75	150	83·5	83·2	77	78	31·9	33·2	90	83
21	29·603	29·535	80·8	78·5	85·2	80·0	86	78	77	154	82·8	82·0	77	78	32·2	32·8	90	79
22	29·584	29·524	83·0	80·0	87·6	80·0	89	78	76	151	83·0	82·0	79	77	33·6	32·2	87	71
23	29·620	29·555	82·0	79·0	86·2	79·8	88	79	76	150	82·5	82·0	78	78	32·5	31·5	87	75
24	29·649	29·607	83·2	75·0	84·8	77·6	88	79	74	150	83·0	82·0	71	75	26·1	29·6	67	71
25	29·637	29·579	82·0	76·8	83·0	78·0	84	76	74	142	82·5	81·8	75	76	29·5	30·5	78	79
26	29·616	29·569	78·2	77·2	82·0	78·8	84	77	76	155	84·0	84·0	77	77	31·2	31·7	95	86
27	29·641	29·589	82·0	78·0	81·8	78·8	86	75	73	152	83·0	83·0	76	78	31·0	32·5	83	87
28	29·606	29·584	78·5	77·0	77·2	76·2	80	76	74	118	83·0	82·0	76	76	30·5	30·2	94	95
Totals	833·588	831·827	2295·4	2171·3	2359·5	2196·9	2473	2135	2062	4244	2342·2	2318·9	2122	2126	849·9	856·6	2277	2151
Means	29·771	29·708	82·0	77·6	84·3	78·5	88·3	76·3	73·6	151·6	83·7	82·8	75·8	75·9	30·4	30·6	81·3	76·8

METEOROLOGICAL SUMMARY FOR MONTH OF FEBRUARY, 1933.

Highest Pressure—29·967″ at 8.30 a.m. on 9th.
Lowest Pressure—29·524″ at 3.30 p.m. on 22nd.
Highest Temperature in Shade—92° on 7th, 13th and 14th.
Lowest Temperature in Shade—75° on 1st, 2nd, 3rd, 4th, 5th, 10th, 13th, 14th, 16th, 18th and 27th.
Mean Daily Range—12·0°.
Greatest Range—17° on 13th and 14th.
Least Range—4° on 28th.
Mean Temperature for Month—82·3°.
Greatest Humidity—96 per cent. at 3.30 p.m. on 3rd.
Least Humidity—60 per cent. at 3.30 p.m. on 10th.
No. of Days of—Rain, 25; Hail, 0; Thunderstorms, 4; Fog, 0; Gales (force 8 or more), 0.

RAINFALL:—Total, 12·51″; average, 11·39″ for 49 years; difference from normal +1·12″; greatest fall in 24 hours, 2·16″ on 28th.

VISIBILITY SUMMARY—NO. OF CASES OF

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8.30 a.m.	0	0	0	0	0	0	0	0	1	3	0	2	15	7
3.30 p.m.	0	0	0	0	0	0	0	1	0	1	0	6	16	4

Standard Distance of Objects used for Estimate of Visibility:—X—Nil, A—27 yards, B—55 yards, C—110 yards, D—220 E—550 yards, F—1,100 yards, G—1¼ mile, H—2½ miles, I—4½ miles, J—6¼ miles, K—12½ miles, L—18¾ miles, M—31 miles.

AMOUNT OF CLOUD.

Hour.	Number of cases of total cloud amount of.				
	0	1/3	4/6	7/9	10
8.30 a.m.	0	7	6	8	7
3.30 p.m.	0	1	5	14	8

FEBRUARY.

Wind Direction and Force (Beaufort Scale). I		II		Weather (Beaufort Letters). At time of Observation I.	During day I to II.	At time of Observation II.	During night II to I.	Cloud. Amount (0–10). I	II	Form. I	II	Direction whence coming. I	II	Amount of Rain. 7 hours during day measured at 15h. 30m.	17 hours measured next morning at 8h. 30m.	Sunshine. Hours and tenths.	Visibility. I	II	State of Ground. I	II	Day.
(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	
Dir.	Fc.	Dir.	Fc.											in.	in.						
alm	..	E.	3	bc	o,t,l,r	otl	c,bc	7	9	ci-st/cu/cu-	st/st-nb/cu-	NW/E	N.E.	0·20	0·01	5·8	L	L	0	0	1
.X.E.	1	E.N.E.	2	c	c,bc	c	ol	7	8	ci-cu/f-cu/nb	cu/cu-nb	E/W	E.	..	0·14	7·5	L	L	1	1	2
.	2	N.E.	4	o	o,r,t,q	ortq	c,bc	10	10	f-cu/cu-nb	nb	N.E.	N.E.	0·31	0·22	0·0	L	K	0	5	3
.XE.	2	N.E.	1	c	o,qr	oq	c,bc	7	9	f-cu/cu/cu-s	st/cu-nb/nb	N.	N.E.	0·63	0·06	6·0	L	L	0	5	4
.	1	W.N.W.	4	bv	bco	o	r,bc,b	2	9	ci-cu	cu-nb/f-nb	N.E.	N.E.	..	0·47	8·5	M	L	0	0	5
.E.	1	N.E.	3	bc	bc	bc	bc,b	5	6	ci/ci-cu/cu	ci/cu/cu-nb	NE/NE	E/NE	..	..	11·0	L	L	0	0	6
.	1	N.N.E.	2	bc	bc	bc	bc,b	5	6	ci-cu/cu-nb	ci-st/cu/f-cu	N/N	NE/NE	..	..	11·6	L	L	0	0	7
.E.	2	E.XN.	2	bc	bc,r	b	bc,w	5	2	ci-cu/cu/cu-	f-cu/cu	NE/NE	N.E.	Trace	Trace	11·4	L	L	0	0	8
.	2	N.E.	3	c	bc	bc	bc,o,p	7	4	ci/f-cu/cu-nb	cu/cu-nb	W/E	N.E.	..	0·39	10·3	L	L	0	0	9
.N.E.	3	N.N.E.	2	bc	bc	bc	b	5	5	ci-cu/cu/cu-	ci/a-cu/cu-n	NE/NE	W/NE	0·06	..	7·5	L	L	0	0	10
.N.E.	2	E.XN.	2	b	bc,r	c	bc,b	3	7	ci/ci-cu/cu	f-cu/cu/cu-n	NW/N	N.E.	0·36	..	7·8	L	L	0	0	11
alm	..	E.	2	b	bc,t,r,l	otl	otlrbc	2	9	ci/cu	cu/cu-nb/nb	NE/NE	N.E.	0·43	0·23	6·3	M	L	1	1	12
alm	..	Calm	..	bv	bc,o	otl	o,t,lr,bc	3	10	ci/ci-cu	cu/cu-nb/nb	N.	N.	..	0·94	6·5	M	K	1	0	13
.XE.	1	N.XE.	2	bc	bc,c	c	otlr	5	8	ci/ci-cu/cu	ci/st/cu-nb/n	NE/NE	NW/W	..	1·30	8·8	L	L	1	0	14
alm	..	Calm	..	bc,v	c,v,t	otlv	otlr	4	9	ci/ci-cu/cu	cu-nb/nb	—/—	E.	..	0·09	6·5	M	M	0	0	15
alm	..	N.XW.	1	c	od	o	o	7	9	ci-cu/cu/f-c	ci-cu/cu-nb/	E/—	W/NW	0·11	..	6·0	L	L	0	1	16
.N.W.	2	N.N.E.	1	ov	ov	ov	o,bc	10	10	a-st/f-cu/nb	a-st/cu-nb/n	N.W.	N.	..	0·03	1·1	M	M	0	0	17
.XW.	1	N.	2	bv	bc,c,v	o	c,bc,c,r	3	9	ci-cu/cu	ci-cu/cu-nb/	NE/N	N/N	0·02	0·14	6·5	M	K	0	1	18
.S.W.	3	S.E.XE.	2	od	ov	ov	o	10	9	nb	cu-nb	S.W.	S.E.	0·01	Trace	3·2	K	M	2	0	19
.XN.	1	S.XE.	1	o	ortl	o	or	9	10	f-cu/cu-nb/	a-st/cu-nb/n	E.	S.	0·09	0·04	4·3	K	L	0	1	20
.XS.	2	S.	2	od	oc	bc	c,o	10	6	f-cu/cu-nb/	ci/a-st/cu-n	N.E.	SE/S	0·04	0·72	3·5	L	L	0	0	21
.	1	E.	3	cv	bc,v	cv	cr	9	7	ci-cu/cu/cu-	ci-cu/cu/cu-	E/E	W/E	..	0·19	8·3	M	M	1	0	22
.	4	E.	4	od	cd	c	bc,r	9	8	f-cu/cu/cu-n	ci-st/cu-n/nb	E.	E/E	0·02	0·17	7·0	L	K	1	0	23
.E.	3	S.S.E.	3	bz	bc	c	c,d	3	8	ci-cu/cu	f-cu/nb	E/E	S.	..	0·10	8·2	I	K	0	0	24
.S.E.	4	S.XE.	4	odz	od	o	or	10	10	f-cu/cu/cu-n	f-cu/cu-nb	S.	E.	0·12	0·41	2·5	I	L	0	0	25
.	2	W.	1	od	od	od	c,bc,r	10	10	cu-nb/nb	nb	W.	W.	0·30	0·79	2·0	H	K	2	1	26
alm	..	Calm	..	bz	bc,c	odz	or	3	10	ci/ci-cu/cu	nb	E/E	...	Trace	1·21	3·0	I	I	1	0	27
.E.XE.	3	N.XE.	3	o	or	orq	or	10	10	f-cu/cu/cu-n	nb	N.E.	N.	1·34	0·82	0·0	L	G	1	2	28
...	..	...	..	...	...	...	...	180	227	...	...	...	...	4·04	8·47	171·1	..	..	..	..	Totals
...	..	...	..	...	...	...	...	6·4	8·1	...	...	...	...	..	..	6·1	..	..	..	..	Means

WIND SUMMARY.

	Force 8 or more	4/7.	1/3.	Calms.	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
8.30 a.m.	0	2	20	6	7	1	3	0	4	0	1	1	0	1	0	0	3	1	0	0
3.30 p.m.	0	4	21	3	4	3	4	1	6	0	1	1	3	0	0	0	1	1	0	0
	0	6	41	9	11	4	7	1	10	0	2	2	3	1	0	0	4	2	0	0

Prevailing Direction, N.; 8.30 a.m., N.; 3.30 p.m., E.

KATA THERMOMETER OBSERVATIONS IN "SCREEN."

Time of Observation between 9h. and 9h. 30m. F. 464.

FEBRUARY, 1932.

Date.	Cooling Power. Dry Kata.	Wet Kata.	Date.	Cooling Power. Dry Kata.	Wet Kata.

NO RECORD TAKEN THIS MONTH OWING TO KATA THERMOMETER BEING BROKEN.

WEATHER DIARY—FEBRUARY, 1933.

Date.

1. Thunder and lighting to about 0400. Northerly airs to 1000, increasing to force 4 from E.S.E. at 1300, falling off to Northerly airs at 1735. Passing showers between 0035 and 0040, 1245 and 1250, and 1550 and 1600. Lightning during evening. Unusual visibility between 1630 and 1800. Red sunset.
2. Northerly airs to 0730, veering N.E. and increasing force 4/5 at 1800, backing and falling off to Northerly airs at 2200. Passing showers between 1805 and 2035. Lightning between about 1900 and 2400. Dew in morning.
3. Early morning overcast. Variable Northerly airs to 0812, veering E. and increasing force 4 at 0830, falling off and backing N.E. at 0930. Squall from N., force 6, at 1500, veering S. and falling off force 4 at 1540, falling off and backing to variable Northerly airs at 1750. Passing showers between 0050 and 0330, and 1500 and 1740. Overcast all day. Clear evening.
4. Early morning fine and clear. Dew. Northerly airs, increasing force 2/3 at 0800, veering E.N.E. and increasing force 3 at 1240. Squall from W.S.W., force 7 from 1420 to 1500, then light Northerly airs. Light shower between 1250 and 1255. Rain from 1420 to 1505. Overcast evening.
5. Early morning fine and clear. Unusual visibility at 0700. Dew. Calm to light Northerly airs to 0840, increasing force 2/3 and gradually veering E. Squall from W.N.W., force 5, between 1520 and 1610, falling off to Northerly airs at 1650. Rain between 1540 and 1615. Overcast after 1420, clearing again at 1830. Pale sunset; unusual visibility at 1900. Evening half cloudy.
6. Early morning fine and clear with unusual visibility at 0700. Dew. Light Northerly airs to 0550, veering N.E. and increasing force 4 at 1450, gradually falling off to Northerly airs at 2240. Half cloudy all day. Pale sunset. Clear evening.
7. Dew in the early morning. Clear sky and light Northerly airs to 0810, backing N.E. and increasing force 3/4 at 1500. falling off to gentle Northerly breeze at 1920. Half cloudy, mainly cirro-stratus, all day. Red glow all over sky at sunset. Clear evening. Lunar Carona at 2145.
8. Early morning clear. Dew. N.E. breeze to 0800, veering E.S.E. and increasing force 4 at 1240, backing N. and falling off to force 2 at 1320, veering E. and uncreasing force 4 at 1500, gradually falling off to N.E., breeze force 1/2 at 1840. Bright sunshine all day. Trace of rain at 1230 and 2100. Pale sunset. Clear to half cloudy evening.
9. Clear and fine in the early morning. Dew. Light N.E. breeze to 0720, increasing force 4 at 1400, gradually falling off to variable N.E. breeze force 1/2 at 1900. Clear day. Passing showers between 2110 and 2400. Lunar Carona observed during evening.
10. Early morning overcast with squally Northerly breeze to 0750, veering N.E. and increasing force 1000 falling off at 1830 to variable Northerly breeze. Passing showers between 0000 and 1000. Cloudy to half cloudy all day. Lunar Carona observed during evening.
11. Dew in early morning and Northerly breeze to 0730, veering N.N.E. and increasing force 2, suddenly veering S. and increasing force 3 at 1050, gradually backing E.S.E. and increasing force 5 at 1355, veering S and falling off at 1420, suddenly backing W and increasing force 2/3 at 1540, gradually veering N. and falling off force 1 at 2200. Early morning fine and clear, clouding over at 1245. Rain from 1340 to 1355. Clearing after 1900. Evening fine and clear. Lightning to E. from about 2200 to 2400.
12. Lightning to E. to about 0230. Early morning fine and clear with unusual visibility. Dew. Light Northerly airs to 1000 backing E.S.E. and increasing force 3/4 at 1320, backing Northerly and falling off to variable Northerly breeze, force 1/2, backing S.W. at 2105 and suddenly increasing force 3, veering W. at 2300. Cloudy at 1230. Rain from 1305 to 1420, passing showers from 1640 to 1835. Overcast evening. Thunder and lightning from about 1500 to 2000.
13. Early morning fine and clear with unusual visibility to about 1400. Calm to light Northerly airs to 1000, suddenly increasing force 2 from N. by E., veering E.S.E. and increasing force 3 at 1300, backing N.E. and falling off to calm 1540, increasing force 3 from N.E. at 1620, then falling off to calm, suddenly veering N.E. and increasing force 5 at 1720, falling off to calm 1735, then variable Westerly breeze force 4, gradually falling off and veering to Northerly airs at 2300. Clear morning becoming overcast at 1400. Thunder from about 1420 to 2100. Lightning from about 1600 to about 2100. Rain from 1610 to 2010.
14. Early morning clear and fine with variable Northerly breeze to 0830 increasing force 3 and veering Easterly variable to 1140, then E. by S. to 1410, backing N.E. and gradually falling off to calm 1700, gradually backing S and increasing force 4 falling off to Northerly breeze at 2110. Heavy rain from 2320 to 2400. Overcast at 1530. Thunder from about 1745 to 2130. Lightning from about 1930 to 2130.
15. Rain to 0135. Early morning cloudy with unusual visibility to 1600. Variable Northerly airs to 0930, backing S. and increasing force 3, falling off to calm 1520, backing N. force 2 at 1620, gradually falling off, suddenly veering S.E. and increasing force 4 at 2035, gradually veering N. and falling off to Northerly breeze at 2110. Light passing showers from 1600 to 2200. Evening overcast.
16. Early morning clear and fine. Northerly airs to calm to 0945, backing E. and increasing force 4 1240, backing N. and falling off to light airs at 1340, suddenly increasing force 5 at 2357. Overcast after 1230. Rain 1325 to 1450. Unusual visibility in the morning and evening. Overcast evening.
17. Overcast and unusual visibility in the early morning. Wind force 4 from N. at 0000, falling off to variable Northerly airs at 0310, backing W. and increasing force 2 at 0755, veering N.E. at 1208 and suddenly increasing force 4 at 1720, falling off to force 2 at 1810 variable N.E. Light rain between 1645 and 1720. Overcast all day with unusual visibility. Rainbow to E. 1845. Pale sunset. Overcast evening.
18. Variable Northerly breeze force 2 in the early morning, increasing force 5 at 1435, falling off to Northerly airs at 1620. Light rain between 1435 and 1440. Overcast in early morning. Dew. Clearing at about 0930 and overcast again at 1400. Unusual visibility all day.
19. Overcast and light drizzle in early morning. Variable Northerly airs increasing force 4 at 0330, falling off force 2 and gradually backing S.S.W. at 1000, backing E.S.E. at 1500, backing to Northerly airs at 1950. Overcast all day with unusual visibility.
20. Overcast in the early morning with Northerly breeze, force 1/2, backing W at 0800, backing S. at 1100, then variable breeze force 1/2 to 2050, increasing force 2/3 from W. Light passing showers and intermittent drizzle between 1215 and 1340. Lightning to S.E. from about 2030 to 2330.
21. Overcast in early morning with Westerly breeze, force 2/3 to 1215, backing S. and increasing force 5 at 2045, falling off to calm at 2150, suddenly increasing force 3 from W. at 2345 falling off to Northerly airs at 2340. Passing showers from 0540 to 1020 and 2030 to 2230. Overcast to cloudy all day. Pale sunset. Overcast evening.
22. Light Northerly airs to 0515 increasing force 2 and veering S.E., backing E. at 0820 and increasing force 3/4 at 1230, falling off to force 1 at 1750, suddenly increasing force 5 at 2240, falling off and backing to Northerly airs at 2250. Cloudy all day with unusual visibility to about 1700. Passing showers from 0320 to 0820. Pale sunset. Cloudy evening.
23. Overcast in the early morning. Northerly airs to 0315, veering E. and increasing force 3/5, gradually backing E.S.E. after 1900, and falling off to force 2/3. Passing showers from 0030 to 0815 and 1500 to 2030. Cloudy to half cloudy all day. Clear evening after 2100.
24. Early morning clear and fine with E.S.E. breeze force 2/3, gradually veering S.S.E. and increasing force 3/4 at 2400. Overcast after 1500. Light showers at 1720 and 2225. Cloudy to overcast evening.
25. Overcast and drizzle in early morning with breeze force 2/3 from S.S.E., gradually veering S. by E. and falling off force 2 at 2100, veering W. by S. at 2250. Overcast and passing showers all day.
26. Overcast in early morning with Westerly breeze, force 2, backing and falling off to Northerly airs 1800. Cloudy to overcast and passing showers all day. Rainbow to W. at 0900.
27. Fine and clear in early morning with Northerly airs to 0900, suddenly veered S. and increasing force 3 at 1215, backed S.W. at 1410, falling off to force 1/2 and veering E. variable, gradually increasing force 3 at 2400. Passing showers to 0430, and from 1600 to 2400 Overcast after 0730.
28. Overcast and drizzle in early morning. Northerly breeze, force 2/3, gradually backing N. and increasing force 4/5 at 1850, falling off force 2/3 and veering E.N.E. 2300, backed north and increased force 4 at 2400. Overcast and heavy passing showers all day.

ADDITIONAL NOTES.

First half of month hot, average maximum in shade being 90°. Latter half of month wet and unsettled.

Between 22nd and 26th a cyclone passed between Fiji Islands and Niuafoou, moving S.S.E., passing W. of Togatabu on the 26th. Lowest Barometer reading from Nukualofa was 29·19″ on 26th between 4 a.m. and 6 a.m. Wind greatest force, 10. Heavy damage to crops and minor structural damage at Nukualofa.

On 28th a cyclone passed well to West of Fiji, moving in a Southerly direction.

METEOROLOGICAL OBSERVATIONS TAKEN AT SUVA, FIJI,

DURING

MARCH, 1933.

MARCH.

Day.	Air Pressure at Mean Sea Level in the Units of Measurement.		Temperature (degrees F).										Humidity.					
			In Screen.				Max.	Min.	In Open.		In Ground.		Dew Point.		Vapour Pressure.		Percentage.	
			Dry.	Wet.	Dry.	Wet.			Grass Min. Eve. to Morn.	Max. in Sun Black Bulb in vacuo.	I							
	I	II	I		II						1 foot.	4 feet.	I	II	I	II	I	II
			Tenths.				Whole Degrees.				Tenths.							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.		
1	29·670	29·656	77·5	76·0	82·0	78·0	82	75	74	115	82·5	81·0	75	76	29·5	31·0	93	83
2	29·754	29·722	80·0	77·0	79·6	77·2	90	74	72	152	81·0	80·0	76	76	30·3	31·1	87	89
3	29·763	29·719	84·0	79·0	88·4	81·2	90	75	72	152	82·0	81·0	77	78	31·6	33·0	79	72
4	29·765	29·707	82·2	79·2	87·0	80·8	88	77	74	151	82·5	81·0	78	79	32·5	33·5	87	76
5	29·819	29·783	84·8	78·8	85·0	80·0	91	77	75	158	82·6	84·0	77	77	31·2	32·0	76	80
6	29·878	29·806	84·8	79·0	85·0	79·2	88	78	75	155	82·0	81·5	77	77	31·2	31·2	76	76
7	29·877	29·795	81·2	79·0	86·4	79·4	88	76	74	154	83·5	82·2	78	76	33·0	30·7	90	72
8	29·834	29·753	80·0	77·4	80·0	77·0	87	75	73	153	83·0	84·0	76	76	31·1	30·3	89	87
9	29·771	29·689	80·5	77·0	85·8	78·5	88	74	73	155	84·2	84·0	73	75	27·7	30·0	77	72
10	29·761	29·711	83·0	78·0	84·0	78·4	85	76	74	147	83·5	84·0	76	76	30·5	31·6	79	77
11	29·832	29·755	77·0	76·0	86·8	77·4	88	75	73	152	83·0	84·0	76	73	30·2	28·0	95	64
12	29·853	29·773	79·4	77·8	87·0	79·8	90	75	73	156	82·8	84·2	77	77	31·6	31·9	93	72
13	29·847	29·787	84·0	78·2	84·8	78·0	90	76	75	151	84·0	84·0	75	75	30·1	29·6	76	73
14	29·865	29·763	82·8	78·0	87·2	79·0	89	75	74	153	84·0	84·0	76	76	30·5	30·3	79	69
15	29·827	29·763	82·0	78·0	83·0	79·6	88	76	73	152	84·5	84·0	76	78	31·0	32·9	83	86
16	29·827	29·751	82·0	77·5	85·2	77·8	87	76	74	155	83·0	84·0	76	74	30·2	28·9	81	71
17	29·854	29·809	84·0	78·0	87·0	78·0	88	76	75	153	83·5	83·0	75	74	30·1	28·8	76	65
18	29·905	29·828	81·0	78·8	88·8	77·2	90	77	74	155	84·0	83·5	78	76	33·0	30·2	91	64
19	29·898	29·809	85·0	77·0	87·0	78·4	89	76	75	153	84·0	84·2	73	73	28·1	28·0	68	63
20	29·906	29·831	78·0	75·0	84·6	76·8	85	75	74	152	84·0	83·0	74	73	28·3	28·1	86	68
21	29·857	29·810	82·0	77·0	76·0	74·8	85	76	74	141	84·0	84·0	75	75	29·5	29·2	79	94
22	29·834	29·757	79·0	75·0	80·2	75·8	83	74	73	155	84·5	84·0	73	74	27·9	28·2	82	81
23	29·788	29·727	75·0	75·0	80·4	77·6	84	75	74	150	82·8	82·0	75	76	29·7	30·3	100	88
24	29·774	29·734	78·0	77·0	74·0	73·4	82	74	72	151	83·0	82·0	77	73	31·2	28·0	95	97
25	29·726	29·661	80·0	75·2	82·8	76·8	85	72	71	124	81·5	81·0	73	74	27·4	29·0	70	75
26	29·705	29·595	74·8	74·0	77·0	74·8	80	74	73	100	78·6	83·0	74	74	28·2	28·8	96	90
27	29·513	29·471	77·0	76·0	84·2	78·6	87	75	74	152	80·0	82·0	76	75	30·2	30·1	95	77
28	29·620	29·578	79·8	76·2	82·2	78·2	82	76	74	140	81·5	81·0	75	76	29·6	31·0	84	83
29	29·728	29·693	79·5	76·2	78·8	76·8	81	75	73	128	79·5	80·8	75	76	29·6	30·8	85	91
30	29·806	29·764	78·8	76·5	76·4	75·2	80	75	72	130	80·0	81·0	75	75	30·1	29·2	89	93
31	29·833	29·779	79·0	72·0	82·6	74·0	84	75	71	150	80·0	81·0	68	70	23·7	25·4	70	65
Totals	923·690	921·779	2496·1	2384·8	2579·2	2407·7	2674	2335	2277	4545	2559·0	2562·4	2335	2333	928·8	931·1	2606	2413
Means	29·796	29·735	80·5	76·9	83·2	77·7	86·3	75·3	73·5	146·6	82·5	82·7	75·3	75·3	30·0	30·0	84·1	77·8

METEOROLOGICAL SUMMARY FOR MONTH OF MARCH, 1933.

Highest Pressure—29·906″ at 8.30 a.m. on 20th.
Lowest Pressure—29·471″ at 3.30 p.m. on 27th.
Highest Temperature in Shade—91° on 5th.
Lowest Temperature in Shade—72° on 25th.
Mean Daily Range—11·0°.
Greatest Range—16° on 2nd.
Least Range—5° on 30th.
Mean Temperature for Month—80·8°.
Greatest Humidity—100 per cent. at 8.30 a.m. on 23rd.
Least Humidity—63 per cent. at 3.30 p.m. on 19th.
No. of Days of—Rain, 29; Hail, 0; Thunderstorms, 4; Fog, 0; Gales (force 8 or more), 0

RAINFALL:—Total, 28·09″; average, 14·74″ for 49 years; difference from normal +13·35″; greatest fall in 24 hours, 5·03″ on 26th.

VISIBILITY SUMMARY—NO. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8.30 a.m.	0	0	0	0	0	0	0	1	0	4	0	0	19	7
3.30 p.m.	0	0	0	0	0	0	0	1	0	2	0	5	20	3

Standard Distance of Objects used for Estimate of Visibility:—X—Nil, A—27 yards, B—55 yards, C—110 yards, D—220 yards, E—550 yards, F—1,110 yards, G—1¼ mile, H—2½ miles, I—4⅓ miles, J—6¼ miles, K—12½ miles, L—18⅔ miles, M—31 miles.

AMOUNT OF CLOUD.

Hour.	Number of cases of total cloud amount of.				
	0	1/3	4/6	7/9	10
8.30 a.m.	0	4	10	7	10
3.30 p.m.	0	5	4	10	12

MARCH.

Wind Direction and Force (Beaufort Scale). I		II		Weather (Beaufort Letters). At time of Observation I.	During day I to II.	At time of Observation II.	During night II to I.	Cloud. Amount (0-10) I	II	Form. I	II	Direction whence coming. II	I	Amount of Rain. 7 hours during day measured at 15h. 30m.	17 hours measured next morning at 18h. 30m.	Sunshine. Hours and tenths.	Visibility. I	II	State of Ground. I	II	Day.
(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	
Dir.	Fc.	Dir.	Fc.											in.	in.						
N.XE.	2	N.N.E.	2	od	or	o	or,c	10	10	a-cu	cu-nb/nb	N.	N.E.	0·11	0·04	...	L	L	2	1	1
Calm	..	W.XN.	3	bc	cr	bc	bc	5	6	ci/ci-cu/cu	ci/cu/cu-nb	N.E./N.	NE/NE	0·16	..	8·8	L	K	1	0	2
E.N.E.	2	E.S.E.	3	bc	bc	b	bc,c,p	5	3	a-cu/cu/cu-n	cu/cu-nb	NE/NE	N.E.	..	0·22	9·7	L	L	1	0	3
E.XN.	2	E.N.E.	2	od	od	c	cp	9	8	f-cu/cu/cu-n	cu/cu-nb	N.E.	N.E.	0·06	0·34	8·7	L	L	1	1	4
N.XW	1	N.E.XE.	2	bcv	co	oz	oc	6	10	ci/cu	f-cu/cu-nb	N./N.	N.E.	..	..	6·1	M	I	1	1	5
N.E.XE.	2	E.XN.	3	o	o	ot	o,r,t,l	10	10	f-cu/cu-nb	cu/cu-nb	E.	N.E.	..	0·05	3·9	L	L	0	0	6
Calm	..	E.	2	bc	bc	bc	c,or	6	6	ci-cu/cu-nb	ci/cu/cu-nb	NE/NE	E/E	0·01	0·33	5·3	L	L	0	0	7
Calm	..	N.N.W.	1	bc	cr	bc	c,bc	5	5	ci-cu/cu-nb	ci-cu/cu/cu-n	NE/NE	SW/NE	0·40	Trace	4·5	L	L	0	1	8
Calm	..	E.	3	bv	br	b	c,r	3	3	ci-cu/cu	cu/cu-nb	N/NE	N.E.	0·02	0·17	10·0	M	L	1	1	9
NEXN	2	N.E.	2	b	bp	c	c,r	3	8	cu/cu-nb	ci/a-cu/cu-n	N.E.	NE/NE	0·25	0·50	2·8	L	L	1	1	10
N.N.E.	2	N.E.	2	od	c,bc	b	c,or	10	3	cu/cu-nb	cu	N.	N.E.	0·02	1·00	8·2	L	L	1	1	11
N.N.E.	2	E.	3/4	c	c	o	o,r,h	8	9	a-cu/cu/cu-n	ci-st/cu	N.	NE/E	..	0·07	9·1	L	L	1	0	12
N.N.W.	1	E.S.E.	2/3	bv	bc	o	or	3	9	ci-cu/cu	ci-st/cu-nb/n	NE/NW	NE/E	Trace	0·02	4·7	M	L	1	0	13
Calm	..	E.	3	bc	bv	bv	bc	5	3	ci-cu/cu/cu-n	cu/cu-nb	S/N	E.	..	0·01	8·9	L	M	1	0	14
Calm	..	E.	2	bcv	bcv	op	oRp	5	10	ci-cu/cu-n	cu/f-nb/nb	NE/NE	N.E.	0·04	0·90	4·1	M	L	0	2	15
N.XW.	1	N.E.	3	cv	cr	c	cd	7	8	a-cu/cu-n	f-cu/cu-nb	N/E	E.	0·19	0·01	5·1	M	L	1	0	16
N.	1	E.N.E.	3/4	bc	bc	b	bcr	5	2	ci-cu/cu-nb	cu/cu-nb	NE/NE	N.E.	..	0·19	7·5	L	L	1	0	17
N.E.	2	N.N.E.	3	bcr	bc	bc	bc	5	6	f-cu/cu/cu-n	ci-cu/cu/cu-n	N.E.	NE/NE	..	..	8·5	L	L	1	0	18
Calm	..	E.	3	bv	bcv	cv	orv	3	8	ci/ci-cu/cu	cu/cu-nb/nb	NE/NE	N.E.	..	0·66	8·0	M	M	0	0	19
N.XW.	1	S.	3	o	c,bc	cv	c	10	8	a-st	ci/ci-cu/cu-n	N.E.	SW/S	0·01	Trace	5·0	L	M	1	0	20
N.N.E.	2	E.	1	c	oR	oR	cr	7	10	ci-cu/a-cu/c	nb	SW/NE	N.E.	2·59	0·10	2·0	L	K	1	2	21
E.XN.	1	N.E.	3	c	oR	c	oR	7	8	ci-cu/cu-n	ci-st/cu-nb/n	N/NE	NE/NNE	1·30	2·27	3·9	L	L	1	1	22
E.N.E.	1	N.E.	2	oRz	or	od	oR,c	10	9	-nb	ci/st-cu/cu-n	N.	E/NE	0·03	1·34	0·5	G	L	2	2	23
Calm	..	E.XN.	4	bcz	oRq	orq	oR	5	10	ci/ci-cu/cu-n	nb	NE/NE	E.	2·53	1·52	1·2	I	G	2	2	24
N.N.E.	2	N.	2	ov	ov	o	oR	9	10	ci-cu/cu/cu-	cu-nb/nb	NE/NE	N.	0·01	2·82	0·1	M	L	1	1	25
N.	2	N.N.E.	2	oRR	or	od	oRTL	10	10	nb	nb	N.E.	N.E.	0·28	4·75	0·0	I	L	2	2	26
N.XW.	3	W.	3	odz	or	o	c,bc,o	10	10	f-nb	cu-nb/nb	N.W.	W.	0·21	0·14	1·8	I	K	2	2	27
W.	3/4	S.W.XW	5	o	o l	o	oR	10	10	f-cu/cu-nb/n	cu-nb/nb	N.W.	S.W.	0·01	1·35	3·6	L	K	2	1	28
W.XS.	3	S.W.	3	od	od	o	c,bc,r	10	10	f-cu/cu/cu-n	cu-nb/nb	S.	S.W.	0·10	0·08	0·1	I	L	2	1	29
Calm	..	Calm	..	o	odz	odz	od,c	10	10	f-cu/cu-nb/n	nb	S.	N.	0·32	0·35	0·4	L	I	1	2	30
E.	4	E.	3/4	c	bc,r	c	o l	7	7	ci-cu/cu/cu-n	cu/cu-nb	NW/E	E.	0·01	0·20	6·5	L	K	1	0	31
...	..	...	..	...	...	...	...	218	239	...	...	...	...	8·66	19·43	149·0	..	..	..	..	Totals
...	..	...	..	...	...	...	...	7·0	7·7	...	...	...	...	..	..	4·8	..	..	..	..	Means

WIND SUMMARY.

	Force 8 or more.	4/7.	1/3.	Calms.	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
8.30 a.m.	0	2	20	9	7	4	3	2	3	0	0	0	0	0	0	0	2	0	0	1
3.30 p.m.	0	5	25	1	1	3	6	2	10	2	0	0	1	0	2	0	2	0	0	1
	0	7	45	10	8	7	9	4	13	2	0	0	1	0	2	0	4	0	0	2

Prevailing Direction, E.; 8.30 a.m., N.; 3.30 p.m., E.

KATA THERMOMETER OBSERVATIONS IN "SCREEN."

Time of Observation between 9h. and 9h. 30m. F. 464.

MARCH, 1933.

Date.	Cooling Power. Dry Kata.	Wet Kata.	Date.	Cooling Power. Dry Kata.	Wet Kata.
1	5·2	11·9	17	4·8	9·8
2	4·8	10·5	18	4·8	9·4
3	4·2	10·8	19	..	..
4	4·7	10·7	20	8·9	10·3
5	..	..	21	10·9	12·4
6	..	..	22	7·6	13·4
7	4·2	9·3	23	8·2	11·9
8	8·0	10·0	24	11·3	16·0
9	8·1	12·3	25	9·9	13·3
10	5·7	10·3	26	..	..
11	..	..	27	10·8	14·1
12	..	..	28	10·9	15·0
13	5·0	11·4	29	10·5	13·3
14	5·6	7·9	30	9·3	12·7
15	5·2	11·6	31	9·1	13·9
16	5·7	13·1			
Totals	..	..	..	183·4	295·3
Means	..	..	..	7·3	11·8

WEATHER DIARY—MARCH, 1933.

Date.

1. Overcast and drizzle in early morning. N. Easterly breeze force 3/4 gradually backing N. and falling off force 1/2 at 0735. Overcast all day with light passing showers to 2000.
2. Early morning fine and clear with light Northerly airs to calm to 0940 veering E. and increasing force 2/3 1210, backing N.W. and increasing force 5 1233, suddenly falling off force 1 and backing N.E. 1310, gradually increasing force 3 1400, suddenly backing W. and increasing force 6 1410, gradually falling off to variable light airs 1610. Heavy passing showers 1210 to 1230. Clear evening.
3. Dew in the early morning. Fine and clear with light Northerly airs to 0805, gradually veering S.E. and increasing force 3 1600, falling off to light Northerly airs 1800. Light passing showers from 1630 to 1710. Evening fine and clear.
4. Overcast and passing showers in early morning. Variable Northerly breeze force 1/2 to 0730 gradually increasing force 2/3 1500, gradually falling off force 1/2 2130, increasing force 2/3. Cloudy to overcast all day with light passing showers.
5. Early morning cloudy with unusual visibility to about 1400. N.N. Easterly breeze force 1/2, backing N.N.W. 0700, gradually veering E. and increasing force 3 1235, falling off and backing to N. Easterly airs after 1630. Cloudy to overcast all day.
6. Cloudy and dew in early morning. Variable N. Easterly breeze force 1/2 to 0725 veering E.N.E. and increasing force 2/3, suddenly backing N. and falling off to force 1/2 1130, gradually veering E. and increasing force 2/3 1500, gradually falling off to Northerly airs 1700. Overcast after 0730. Thunder 1300 to 1830. Lightning to S. 1930 to about 2000. Light rain 1935 to 2020. Overcast evening.
7. Easterly breeze force 1/2 from 0035, to 0155, then light Northerly airs to 0935, veering S.E. and increasing force 3, variable between N. and E. from 1030 to 1320 then Easterly, sudden squall from N. force 6 from 1615 to 1640, falling off to Northerly airs. Cloudy to overcast all day. Light rain 1045. Heavy rain from 1610 to 1635 and light rain 2035. Lunar corona 1915.
8. Sky nearly covered with cirro-stratus in early morning. Light Northerly airs to 0940 then variable breeze force 2/3 to 1435, falling off to light Northerly airs. Passing showers from 1200 to 1415. Cloudy evening. Lunar corona 1930 and 2030.
9. Early morning clear and cloudless. Dew. Light Northerly airs to 0835 gradually veering E. and increasing force 3 1500, gradually falling off to variable light airs 1900. Unusual visibility to about 1400. Light shower at 1435 and 1935 to 2010.
10. Passing showers in early morning. Light variable airs to 0630, increasing force 2, then falling off, increasing force 1/4 0810 variable between N. and E. to 1725, then N.E. force 1. Overcast after 1030. Passing showers 1055 to 1200 and 1605 to 1710. Clear to half claudy evening. Rainbow to E. 1640. Unusual visibility about 0830.
11. Cloudy and passing showers in early morning. Squally N. Easterly breeze force 1/4 to 0830, veering N. Easterly and increasing force 3/4 falling off after 1650 to force 2, backing N. by E. and increasing force 4 at 2235. Cloudy to overcast and light passing showers all day.
12. Early morning clear and fine, N. Easterly variable breeze increasing force 3/4 1100, veering E. 1340 and increasing force 4/5 1510, gradually falling off and backing to N. Easterly airs. Light passing showers after 2010. Lunar halo 1100.
13. Lunar halo to 0400. Lunar corona from 0300 to 0315. Unusual visibility in early morning. Light Northerly airs to 0920, increasing force 2 and veering E.S.E. 1210, backing and falling off to Northerly airs 1710. Overcast after 1400. Light shower 2230.
14. Dew in early morning. Light Northerly airs to 0940, veering E.S.E. and increasing force 3 1130 gradually falling off and backing to Northerly airs 1930. Light rain 2235. Unusual visibility all day.
15. Early morning clear and unusual visibility to about 1500. Light Northerly airs to calm to 1010, veering S. and increasing force 2, backing E. and increasing force 2/3 1130, gradually falling off to force 1. Suddenly backed W. and increased force 3 1730, gradually veering and falling off to Northerly airs 1900. Overcast after 1400. Rain 1510 to 1515. Heavy rain from 1850 to 1910, then light passing sdowers.
16. Overcast in early morning. Light passing showers to 0730. Variable N. Easterly breeze to 1200, veering E. and increasing force 3, gradually backing N. and falling off force 1/2 1840, veering E. 1850, and falling off to Northerly breeze force 1 2100. Rain 1215 to 1250. Cloudy to overcast all day. Unusual visibility in early morning.
17. Light Northerly airs to calm to 0645, gradually veering E.N.E. 1250 and increasing force 3/4 1500. Gradually falling off to force 1 2400. Dew in early morning. Clear to half cloudy all day. Light shower at 2030. Rainbow to W. 0720.
18. N. Easterly breeze force 1 to 0800, increasing force 2/3 and veering E.N.E. backing N.E. 1310, backing N.N.E. 1515, gradually veering N.E. and falling off to light airs 1900. Early morning clear, shower of rain 0830, then clear to half cloudy all day.
19. Northerly breeze force 1/2 falling off to calm 0630, gradually veering E. 1130 and increasing force 3 1500, gradually falling off and backing N. 1930, then gusty Northerly breeze force 1/3 to 2400. Unusual visibility to about 1600 then overcast. Heavy passing showers 1820 to 2030.
20. Early morning overcast with unusual visibility to about 0800. Gusty Northerly breeze force 1/3 to 0630 then calm to 0945, backing S.S.W. and increasing force 4 1210, veering W. and falling off force 1 1330, backing S. and increasing force 3 1400, gradually falling off and veering to Northerly airs 1900. Overcast to cloudy all day. Passing showers to 0400 and at 1300.
21. Early morning overcast. Dew. Northerly airs to 0800, veering N.E. and increasing force 2/3 1130, then variable breeze force 1/2 to 1930, then calm to 2250, then Easterly force 2. Heavy continuous rain from 1110 to 1250. Light continous rain from 1400 to 1750. Overcast evening.
22. Early morning clear and fine. N. Easterly breeze to 0830, then variable force 1/4 between N. and E. to 1800, then N. Easterly. Overcast after 0730 and heavy passing showers all day.
23. Variable breeze force 1/3 to 0730, veering N. Easterly and increasing force 4 1355 gradually falling off to variable breeze force 1/2 1800. Overcast all day. Heavy passing showers to 0920 and after 1630.
24. Light airs to calm to 0900, veering E. and increasing force 5/6 1400, gradually backing N. and falling off to Northerly airs 2100. Squally day, gusts reaching force 7. Heavy passing showers to 0730. Heavy rain from 1120 to 1820, then light showers to 2215.
25. Early morning overcast, unusual visibility to about 1500. Light Northerly airs to calm to 0715, increasing force 3 1500, falling off force 1/2 1700, veering N.E. Overcast all day. Light rain at 1700 and 2200.
26. N. Easterly breeze force 1/2 to 0400, backing Westerly and becoming gusty to 0500, then Northerly force 1/2 gradually veering E. and increasing. Wind between N. and E. all day gradually increasing force 3/4 at 2300. Light showers to 0240, then heavy rain to 0530, continuous light rain to 1105, passing showers to 1850, then heavy rains. Thunder and lightning after 2000.
27. Thunder and lightning to about 0530. Variable gusty breeze force 1/4 to 0530, then Northerly force 1, gradually backing W. and increasing force 2/3 1210, variable between N. and W. to 1630, then squall from S.W. force 7 1810, then Westerly force 4 gradually increasing force 6 at 2400. Continuous heavy rain to 1200. Light shower 1800. Sky cleared between 1900 and 2000. Greenish sky to W. after sunset.
28. Overcast in early morning. Westerly breeze force 2/3 gradually increasing force 5/6 and backing S.W. 1230, gradually veering W. and falling off force 3 1800. Rain from 0250 to 0450 and from 1610 to 1650. Heavy rain from 2010 to 2235. Overcast all day.
29. Variable airs to 0530, then Westerly force 3, veering S.W. 0920 and increasing force 4 1130, falling off force 2/3 1440, backing S. and increasing force 5 1450, falling off force 2 1530, gradually veering W. and falling off to light variable airs 2200. Overcast to about 1800 then clear to half cloudy evening. Light rain 0025 to 0050, 1055 to 1210, 1445 to 1500 and 2135.
30. Light variable airs to 1800, then Easterly force 2, backing N. 1945, veered E.S.E. 2010 and increased force 3/4. Overcast all day. Light rain 0020 to 0040. Passing showers from 1120 to 2000.
31. Overcast to cloudy all day, light drizzle to about 0300. E.S. Easterly breeze force 3/4, backing East 0900. Passing showers 1620 to 1720.

ADDITIONAL NOTES.

An exceptionally wet month. Rainfall at Suva, 28·09 in., being 13·35 in. above the average for the month.

On 27th, 28th and 29th a cyclone passed West and South of the Group, travelling in a south-easterly direction.

METEOROLOGICAL OBSERVATIONS TAKEN AT SUVA, FIJI,

DURING

APRIL, 1933.

APRIL.

Day.	Air Pressure at Mean Sea Level in the Units of measurement. I 8 30 A	II 3 30 P	Temperature (degrees F.) In Screen I Dry.	Wet.	II Dry.	Wet.	Max.	Min.	In Open Grass Min. Eve. to Morn.	Max. in Sun. Black Bulb in Vacuo.	In Ground. I 1 foot.	4 feet.	Humidity. Dew Point. I	II	Vapour Pressure. I	II	Percentage. I	II
					Tenths.		Whole Degrees.				Tenths.							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.		
1	29·866	29·817	82·0	71·8	83·0	73·0	85	71	69	153	81·0	81·5	67	68	22·4	23·3	59	61
2	29·903	29·835	77·0	73·8	78·8	76·0	81	73	72	119	79·5	80·8	73	75	27·3	29·3	86	86
3	29·906	29·843	79·0	77·0	81·4	77·0	85	74	69	144	80·0	81·0	76	75	30·8	29·2	91	82
4	29·924	29·843	80·0	75·0	82·6	76·0	84	75	74	144	80·0	81·0	73	74	27·4	28·3	79	73
5	29·892	29·810	79·8	75·2	80·8	75·8	82	76	72	147	80·0	81·0	74	74	28·2	28·4	80	79
6	29·844	29·790	79·0	75·0	81·6	76·6	83	75	73	137	79·5	80·8	73	75	27·9	29·5	83	79
7	29·836	29·796	80·2	76·0	78·2	76·8	85	74	72	139	80·0	81·0	74	76	28·9	30·5	82	94
8	29·880	29·864	78·0	76·0	74·0	73·4	82	74	72	128	80·0	80·5	75	73	29·8	28·6	91	97
9	29·911	29·835	78·0	75·2	81·0	76·6	84	74	73	150	79·2	80·8	74	75	28·3	29·2	86	82
10	29·818	29·733	77·0	74·8	82·2	77·0	85	73	72	143	80·0	80·5	73	75	27·3	29·5	86	78
11	29·767	29·675	79·0	75·0	87·0	78·0	90	76	74	151	79·0	80·5	73	74	27·9	28·8	83	66
12	29·809	29·772	82·5	77·5	84·0	79·4	92	76	73	154	80·0	81·0	76	78	30·5	32·4	79	81
13	29·929	29·900	82·5	78·0	78·0	76·4	86	76	73	148	80·0	81·0	78	76	32·9	30·5	86	93
14	29·954	29·893	80·8	78·0	82·6	78·6	86	74	71	149	80·5	80·0	77	77	31·4	32·1	87	83
15	29·957	29·887	79·4	77·2	78·8	76·8	82	76	73	134	81·0	81·2	76	76	30·8	30·8	90	91
16	29·920	29·838	79·8	77·0	84·5	77·8	86	73	71	143	80·0	80·0	76	76	30·3	30·4	88	73
17	29·914	29·848	82·0	78·0	81·2	80·0	87	74	71	150	81·6	81·0	76	80	31·0	34·5	83	95
18	29·895	29·820	76·8	75·2	78·2	76·4	84	72	69	130	81·0	79·8	75	75	29·5	29·8	93	91
19	29·873	29·791	78·0	76·0	82·0	77·8	83	73	72	160	81·5	82·0	75	76	29·8	31·0	91	82
20	29·818	29·748	81·0	77·0	80·6	75·6	85	74	72	149	82·0	82·5	75	74	29·9	28·4	83	78
21	29·848	29·762	80·0	76·8	85·4	78·2	86	73	72	146	80·0	81·0	76	75	30·3	29·6	86	72
22	29·919	29·791	78·0	75·0	81·5	77·0	84	73	72	149	81·5	82·0	74	76	28·3	30·2	86	81
23	29·891	29·787	78·0	76·8	79·0	77·0	82	74	71	142	81·4	81·2	77	76	31·2	30·8	94	91
24	29·847	29·757	77·0	76·0	78·6	77·2	83	73	71	147	81·0	80·0	76	77	30·2	31·6	95	91
25	29·759	29·710	83·0	77·5	86·0	77·8	90	74	72	152	80·0	80·5	75	75	29·8	29·2	78	69
26	29·830	29·808	78·2	77·0	76·8	75·8	79	75	74	113	81·5	81·0	77	76	31·2	30·2	95	95
27	29·853	29·802	76·0	75·0	76·8	75·4	77	75	72	90	81·0	82·0	75	75	29·2	29·5	95	93
28	29·864	29·801	74·5	74·0	76·0	75·2	77	73	71	98	81·0	82·0	74	75	28·9	29·2	98	96
29	29·891	29·827	74·0	73·0	77·0	75·0	79	72	71	103	80·5	80·0	72	74	27·3	28·8	95	91
30	29·926	29·854	78·0	75·8	82·0	78·6	83	73	73	102	77·0	80·0	75	77	29·8	31·7	91	86
Totals	896·244	894·237	2368·5	2275·6	2419·6	2302·2	2517	2218	2156	4114	2410·7	2427·6	2240	2258	878·5	894·7	2599	2512
Means	29·875	29·808	78·9	75·9	80·7	76·7	83·9	73·9	71·9	137·1	80·4	80·9	74·7	75·2	29·3	29·8	86·6	83·7

METEOROLOGICAL SUMMARY FOR MONTH OF APRIL, 1933.

Highest Pressure—29·957″ at 8.30 a.m. on 15th.
Lowest Pressure—29·675″ at 3.30 p.m. on 11th.
Highest Temperature in Shade—92° on 12th.
Lowest Temperature in Shade—71° on 1st.
Mean Daily Range—10°.
Greatest Range—16° on 12th and 25th.
Least Range—2° on 27th.
Mean Temperature for Month—78·9°.
Greatest Humidity—98 per cent. at 8.30 a.m. on 28th.
Least Humidity—59 per cent. at 8.30 a.m. on 1st.
No. of Days of—Rain, 27; Hail, 0; Thunderstorms, 3; Fog, 0; Gales (force 8 or more), 0.

RAINFALL:—Total, 33·09″; average, 12·44″ for 49 years; difference from normal, 20·65″; greatest fall in 24 hours, 6·52″ on 28th.

VISIBILITY SUMMARY—NO. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8.30 a.m.	0	0	0	0	0	0	0	0	1	4	0	4	18	3
3.30 p.m.	0	0	0	0	0	0	0	2	1	3	1	7	12	4

Standard Distance of Objects used for Estimate of Visibility:—X—Nil, A—27 yards, B—55 yards, C—110 yards, D—220 yards, E—550 yards, F—1,110 yards, G—1¼ mile, H—2½ miles, I—4½ miles, J—6¼ miles, K—12½ miles, L—18¾ miles, M—31 miles.

AMOUNT OF CLOUD.

Hour.	Number of cases of total cloud amount of. 0	1/3	4/6	7/9	10
8.30 a.m.	0	3	7	10	10
3.30 p.m.	0	0	5	10	15

APRIL.

Wind Direction and Force (Beaufort Scale). I		II		Weather (Beaufort Letters). At time of Observation I.	During day I to II.	At time of Observation II.	During night II to I.	Cloud. Amount (0–10) I	II	Form. I	II	Direction whence coming. I	II	Amount of Rain. 7 hours during day measured at 15h. 30m.	17 hours measured next morning at 8h. 30m.	Sunshine. Hours and tenths.	Visibility. I	II	State of Ground. I	II	Day.
(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	
Dir.	Fc.	Dir.	Fc.											in.	in.						
E.XN.	2	E.	3/4	od	oc	bc	o,d	10	5	cu/cu-nb	ci-cu/cu/nb	N.E.	E./E.	0·01	0·07	7·5	L	L	1	1	1
E.N.E.	2/3	E.XS.	2	o	o	od	o,c	yb	yb	nb	nb	E.	E.	Trace	0·41	-	K	I	2	1	2
E.XS.	1	E.XN.	2	c	c	c	o,r	7	8	ci-cu/cu/-nb	cu-st/nb	NE/E	N.E.	..	0·34	4·7	L	L	1	1	3
E.N.E.	2	E.XN.	2/3	c	c	c	o,d	8	9	f-cu/cu/cu-n	f-cu/st/nb	N.E.	E.	..	0·09	1·3	L	L	1	0	4
N.E.XE.	1	N.N.E.	2	o	c	c	o,R	9	8	f-cu/cu/cu-n	ci/cu-nb/nb	N.	E/NE	..	1·58	1·7	L	L	1	0	5
N.E.	1	E.N.E.	2	bc	c	c	bc	5	9	ci-cu/cu/nb	f-cu/st/nb	E.	E.	..	..	1·5	L	L	1	0	6
N.E.XE.	1	Calm	0	bc	o,r	or	o,r	5	10	ci-cu/cu/nb	nb	N.E.	N.	0·45	1·58	3·5	L	1	1	1	7
N.E.	3	N.	2	odz	o,r	od	o,d	10	10	f-cu/nb	nb	N.	N.	0·32	0·08	...	1	K	2	2	8
N.E.	2	E.N.E.	2	o	o,d	o	o,R	10	10	cu-nb/nb	f-cu/cu-nb	N.E.	N.E.	0·04	2·35	0·6	L	L	2	1	9
N.E.	2	N.	2	o	o,d	o	c,d	10	9	f-cu/cu-nb/n	ci/a-st/cu-n	N.	NW/N	0·02	0·04	2·5	L	L	2	1	10
N.N.E.	2	N.XW.	3	cv	bcv	bcv	bc	8	5	f-cu/cu-nb/n	ci/ci-cu/cu-	N.	W)N	..	..	8·5	M	M	1	1	11
N.N.W.	2	S.	3	c	bc	o	c,bc	7	9	ci-cu/cu/cu-	cu/cu-nb	N/NW	N.W.	..	..	5·7	M	K	1	0	12
Calm	0	Calm	0	bc	c,o,r	od	od	5	yb	ci/ci-cu	nb	E.	S.E.	1·04	0·10	4·3	L	K	0	2	13
Calm	0	S.E.	3	bc	bc	bcv	or	5	6	ci/ci-cu/cu-	ci-st/cu-nb/n	N/NE	N/SE	..	0·40	7·0	L	M	1	0	14
E.S.E.	3	E.S.E.	2	od	or	oR	or,bc	9	10	ci-st/cu-nb/n	nb	NE/ESE	S.E.	0·57	0·64	0·7	K	G	1	2	15
Calm	0	E.S.E.	3	bc	bc	bc	bc	5	5	ci-cu/cu-nb	ci-cu/cu-nb	NE/E	NE/SE	..	0·03	8·5	L	L	1	1	16
S.E.	1	E.S.E.	2	b	or	or	or,l,o	3	10	ci/cu	nb	N/NE	E.	0·10	1·36	4·1	L	K	0	2	17
S.S.E.	1	S.S.E.	1	bc	or	or	or,o	5	10	ci-cu/cu-nb	cu-nb/nb	NE/NE	S.E.	0·48	1·86	1·3	L	K	1	2	18
N.XE.	1	E.N.E.	3	o	or,c	bc	bc	10	6	f-cu/cu/cu-n	ci-cu/cu/cu-n	E.	NE/NE	0·53	0·03	2·3	L	L	1	2	19
N.E.XN.	2	N.N.E.	2	bc	bc,c	o	or,bc	5	9	ci/ci-cu/cu-n	cu/cu-nb/nb	N/NE	N.E.	..	0·17	4·2	L	L	1	0	20
Calm	0	E.N.E.	2	bv	bcv	cv	oR	3	8	ci/ci-cu	cu/nb	N.	E.	..	1·09	7·3	M	M	1	0	21
Calm	0	S.E.XS.	2	c	o	o	or	7	10	ci-cu/cu/nb	f-cu/cu/cu-n	E/NE	N.	..	0·40	6·0	L	L	1	1	22
Calm	0	E.	2	o	od	od	oR	10	10	cu-nb/nb	nb	N.E.	E.	0·02	3·97	2·4	K	K	2	2	23
N.N.W.	1	S.E.	2	o	or	or	oR,bc	9	10	f-cu/cu-nb	nb	N.	S.E.	0·25	1·04	3·1	L	R	2	2	24
N.	3	N.N.W.	3	b	bcv	ov	or	3	9	ci/ci-cu	a-st/st/cu-nb	N.	N.W.	..	0·30	4·8	L	M	1	0	25
S.S.E.	1	S.E.	2	o	or	or	or	9	10	lr-cu/cu-nb	nb	N.E.	S.E.	0·93	0·74	...	I	I	2	2	26
Calm	0	Calm	0	od	orr	od	or	10	10	cu/cu-nb/nb	nb	N.E.	N.E.	0·72	0·36	...	L	K	2	2	27
Calm	0	E.S.E.	3	od	oR	orz	oR,R	10	10	cu-nb/nb	nb	N.	S.E.	1·06	5·46	...	H	G	2	2	28
Calm	0	E.XN.	2	oz	or	od	oR	10	10	cu-nb/nb	nb	N.E.	E.	0·25	1·62	...	I	I	2	2	29
N.E.	1	E.	2	c	bc	c	or	8	8	ci/a-cu/cu-n	ci-cu/cu-nb	N/E	E/NE	0·03	0·90	4·2	K	L	1	1	30
...	..	...	..	...	...	...	...	225	263	...	...	...	...	6·29	26·80	95·9	..	..	..	..	Totals
...	..	...	..	...	...	...	...	7·5	8·8	...	...	...	...	..	..	3·2	..	..	..	..	Means

WIND SUMMARY.

	Force 8 or more.	4/7.	1/3.	Calms.	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
8.30 a.m.	0	0	21	9	2	3	7	4	2	1	0	0	0	0	0	0	0	0	0	2
3.30 p.m.	0	1	26	3	3	2	0	4	7	4	4	1	1	0	0	0	0	0	0	1
	0	1	47	12	5	5	7	8	9	5	4	1	1	0	0	0	0	0	0	3

Prevailing Direction, E.; 8.30 a.m., N.E.; 3.30 p.m., E.

KATA THERMOMETER OBSERVATIONS IN "SCREEN."

Time of Observation between 9h. and 9h. 30m. F. 464.

APRIL, 1933.

Date.	Cooling Power. Dry Kata.	Wet Kata.	Date.	Cooling Power. Dry Kata.	Wet Kata.
1	8·0	11·5	16	7·1	11·2
2	..	..	17	6·6	13·1
3	5·2	9·1	18	4·8	8·0
4	5·8	9·3	19	4·5	7·7
5	5·7	9·8	20	5·7	8·6
6	6·2	10·9	21	4·3	5·9
7	5·0	9·5	22	5·6	8·7
8	4·7	8·0	23	..	..
9	..	..	24	6·3	9·5
10	6·2	8·8	25	7·4	10·6
11	15·5	18·9	26	8·1	12·4
12	11·9	16·9	27	7·4	11·0
13	..	..	28	5·2	7·8
14	..	..	29	5·3	8·4
15	7·5	11·2	30	..	..
Totals	..	..	..	160·0	246·8
Means	..	..	..	6·7	10·3

WEATHER DIARY—APRIL, 1933.

Date.

1. Overcast in early morning. E breeze force 3/4 falling off 0810 and backing N. veering E. 0910 and increasing force 3/4. Passing showers 0225 to 0405. Light shower 1920. Half cloudy to cloudy all day.
2. Early morning overcast. E breeze force 3/4 to 0415, backing N. and falling off force 1/2, veering E.N.E. 0530 and increasing force 3/4 0830, veering E.S.E. 1500, backing N. and falling off force 1 1900, veering E.N.E. and increasing force 3/4 2030, gradually backing N. and falling off to calm 2320. Light drizzle from 0150 to 0730. Passing showers from 1540 to 1900. Cloudy to overcast all day.
3. Cloudy and misty in early morning. Calm to light airs to 0900, then E.S.E. force 1/2, backing N. 1310, veering E. 1330, increasing force 2/3 1600, falling off and backing N. 1610, then variable between N. and E. force 1/2. Light passing showers from 0230 to 0400, and 2200 to 2400.
4. Early morning overcast. E.N.E. breeze force 2/3, gradually veering E. 1330, gradually backing E.N.E. 1500, falling off force 1 2000, gradually increasing force 2 and veering N. 2300, overcast all day. Light rain to 0030.
5. Overcast in early morning E.S.E. breeze force 1/2 to 0410, backing E.N.E. and falling off force 1 0630, backing N. and increasing force 2/3 0850, veering N.E. 1000, gradually backing N.N.E. and falling off force 1 1600, veering E.S.E. and increasing force 2 1640, gradually backing W. 2100, then variable, falling off to calm 2340. Cloudy to overcast all day. Light rain at 0110, from 0850 to 0935. Heavy passing showers from 1810 to 2325.
6. Light airs to calm to 0730, then N.E. breeze force 2/3, gradually veering E.N.E. 1630, falling off to light variable airs 1800. Cloudy to overcast to 1800. Lunar Corona 1850 to 1900.
7. Calm to light Northerly airs to 0755, veering N.N.E. and increasing force 2/3 1000, falling off to light variable airs 1435, increasing force 1 1810. Half cloudy in early morning. Overcast after 1030. Heavy passing showers after 1330.
8. Variable light Northerly airs to 0730, veering N.E. and gradually increasing force 2/3 1400, backing N. and falling off force 1/2 1410. Overcast all day. Light passing showers to 1530 and from 1950 to 2150.
9. Early morning overcast. N.N.E. breeze force 1/2 increasing force 3/4 0710, veering N.E. 1250, veering W. and falling off force 1 1620, increasing force 4 1830, falling off and backing N.W. 2100, veering E.N.E. 2145 force 2. Overcast all day. Shower at 0515. Light passing showers after 1400. Heavy continuous rain after 1955.
10. Overcast and drizzle in early morning. E.N.E. breeze force 1/2, backing N.N.E. 0115 and increasing force 2/3, gradually veering N.E. and falling off force 1 0500, gradually backing N.N.E. 1300, and gradually increasing force 3, backing N.xE. and falling off force 2 1900. Heavy rain to 0245, then drizzle to 0730, shower at 1415 and from 1745 to 1830. Overcast all day.
11. Overcast and unusual visibility in early morning. Variable light airs to 0450, then N. breeze gradually increasing force 3 and veering N.N.E. 0830, backing N.N.W. 1320, increasing force 4 1600, veering N.E. and falling off force 1 1920, backing N. by E. 2010 and increasing force 2. Unusual visibility to about 1730. Overcast to cloudy all day.
12. Half cloudy in early morning N.E. breeze force 1/2 falling off to calm 0450, then N. breeze force 2, backing N.N.W. 0800, increasing force 3 1435, suddenly backing S. and increasing force 4 1440, gradually falling off force 1 and veering W. by S. 1630 variable airs to 2020, then Northerly airs. Half cloudy to overcast all day. Trace of rain 1800. Clear evening.
13. Light airs to calm to 1025 then variable force 2/3, falling off to variable light airs 1425. Heavy rain 1210 to 1335. Light passing showers to 1835. Early morning clear and cloudless overcast after 1100.
14. Early morning clear. Calm to 0825, then S.E. breeze gradually increasing force 3 1810, falling off 2340. Overcast after 1700. Lightning to N. 1900. Thunder and lightning from about 2300 to 2400. Rain 2310 to 2400.
15. Rain to 0035. Thunder and lightning to about 0200. Early morning overcast. Light airs to 0430 then S.E. breeze gradually increasing force 2/3 0940, backing E.N.E. and falling off force 1 1000, gradually veering E.S.E. 1210 and increasing force 2, suddenly falling off to light variable airs 1530. Overcast and heavy passing showers to 1700. Clear and cloudless evening.
16. Early morning clear and cloudless. Calm to 0920 then E. breeze gradually increasing force 3 1330, gradually falling off to light airs 1900.
17. Dew in early morning. Calm to 0800, then variable between N. and S.E. force 2/3 to 1900, suddenly increasing force 5 from E. 1910, gradually falling off to light airs 2100. Early morning cloudless, overcast after 1000. Passing showers from 1010 to 1550 then heavy rain to 2200. Thunder and lightning from 1830 to 2100.
18. Early morning overcast. Unusual visibility to about 0800. Light airs to 0810, then variable force 1/3, falling off to calm 2210. Cloudy to overcast all day. Light rain from 1000 to 1100. Heavy passing showers from 1450 to 2200.
19. Overcast in early morning. Unusual visibility to about 0800. Calm to 0350, then squall from N.E. force 5, falling off to light airs 0600, increasing force 2/3 from N.E. 0900, gradually falling off force 1 1950. Light passing showers from 0130 to 0535 and 0915 to 1100. Light showers at 1330, 1750 and 2310. Overcast to about 1500, then half cloudy. Clear evening.
20. Overcast in early morning. Unusual visibility to about 0800. N.E. breeze force 2 to 0150, then light Northerly airs to 0800, gradually veering N.E. and increasing force 3 1140, gradually backing N. and falling off to variable airs 1640. Cloudy to half cloudy to 1400 then overcast. Steady light rain from 1630 to 1845. Evening clear and cloudless.
21. Clear and cloudless in early morning. Unusual visibility to 1600. Light variable airs to 0940, then E.S.E. gradnally increasing force 2/3 at 1330, falling off and backing N. 1610, then variable airs. Overcast after 1520. Shower at 1550. Heavy rain from 2140 to 2400.
22. Clear and cloudless in early morning. Light Northerly airs to 1010 then E. force 2 gradually backing S.E. 1750, falling off to variable airs 1815. Overcast after 1315. Light passing showers from 1640 to 2200, then clear night.
23. Early morning overcast. Light variable airs to 0855, then variable breeze force 2, backing S.E. 1030, increasing force 3 1420, backing E.S.E. 1515, falling off to variable airs 2300. Overcast all day. Steady light rain from 1515 to 1710 then heavy continuous rain to 2400.
24. Cloudy in early morning. Calm to light airs to 0900 then E. force 2, gradually increasing force 3 1300, falling off to Northerly airs 1710. Cloudy to overcast all day. Heavy rain to 0025 and from 1450 to 1700. Evening half cloudy.
25. Early morning fine and clear. Calm to 0150, then N. breeze gradually increasing force 4 0900, backing N.W. 1030, gradually veering N. and falling off force 3 1600, gradually falling off to light airs 2300. Overcast after 1100. Light drizzle from 2155 to 2215.
26. Overcast and rain in early morning. Variable Northerly breeze to 0800, veering S. and increasing force 5 0940, gradually falling off force 1 2235, backing to Northerly airs 2320. Overcast and passing showers all day.
27. Early morning overcast. Light variable airs to 1415, increasing force 1, falling off to light airs 2010. Rain 0330 to 0530, steady rain from 0840 to 1530, then drizzle to 1730. Overcast evening.
28. Overcast in early morning. Light airs to 0900 then N.E. force 2, increasing force 3/4 1100, falling off force 2 1800, then variable to 2020, increasing force 3/4 2030 from E.S.E. Continuous rain after 0520. Heavy continuous rain from 1740 to 2030, then light rain.
29. Overcast in early morning. E.S.E. breeze force 2/3 gradually falling off to light airs 0410, increasing force 2/3 1115 from E. falling off to light variable airs 2020. Overcast and passing showers all day.
30. Early morning overcast. Light variable airs to 0530 then E.N.E. breeze force 2, veering E. 1110, falling off to light airs 1910. Light passing showers to 0730. Half cloudy after 0830. Overcast after 1630. Light passing showers after 2300.

ADDITIONAL NOTES.

An exceptionally wet month. Rainfall of 33·09 inches exceeds the average by 20·65 inches and is also the greatest fall recorded for the month of April.

METEOROLOGICAL OBSERVATIONS TAKEN AT SUVA, FIJI,

DURING

MAY, 1933.

MAY.

Day.	Air Pressure at Mean Sea Level in the Units of Measurement.		Temperature (degrees F.)										Humidity.					
			In Screen.				Max.	Min.	In Open.		In Ground.		Dew Point.		Vapour Pressure.		Percentage.	
			Dry.	Wet.	Dry.	Wet.			Grass Min. Eve. to Morn.	Max. in Sun Black Bulb in vacuo.	I							
	I	II	I		II						1 foot.	4 feet.	I	II	I	II	I	II
			Tenths.				Whole Degrees.				Tenths.							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.		
1	29·955	29·913	78·0	76·5	77·6	75·2	84	73	72	103	81·0	80·5	76	74	30·5	29·0	94	89
2	29·985	29·910	78·8	74·0	81·0	74·8	83	73	72	140	80·0	81·0	72	72	26·5	27·0	79	75
3	29·991	29·887	76·0	72·0	81·2	74·8	83	70	66	148	79·0	80·0	70	71	25·0	26·3	82	74
4	29·935	29·825	78·0	75·2	84·4	76·0	85	72	70	149	79·0	80·0	74	72	29·3	26·4	87	67
5	29·898	29·794	77·5	74·8	82·0	76·0	85	74	70	148	79·5	80·0	74	73	29·0	28·0	88	75
6	29·898	29·829	77·5	71·5	82·8	75·0	84	69	66	142	79·5	80·0	69	71	24·1	26·1	74	68
7	29·955	29·882	81·4	76·0	80·6	76·0	83	75	72	128	80·0	80·2	73	75	27·7	29·2	77	80
8	29·892	29·814	81·0	76·0	75·8	74·0	85	73	70	148	80·0	80·5	74	73	28·4	27·8	78	92
9	29·923	29·886	74·0	72·8	76·0	71·0	77	73	72	100	81·0	80·5	72	68	27·3	23·7	94	78
10	29·973	29·913	74·2	73·0	73·4	70·8	77	70	69	107	77·0	79·0	72	69	27·3	24·4	94	88
11	29·959	29·916	73·5	71·5	76·8	73·0	80	70	67	141	77·0	79·0	70	71	25·9	26·0	90	83
12	30·005	29·993	75·0	70·0	73·8	71·0	76	73	70	90	77·0	79·0	67	69	22·8	24·6	77	87
13	30·039	30·009	74·2	73·0	72·0	71·0	75	72	70	91	78·0	79·5	72	71	27·3	25·5	94	95
14	30·068	29·996	75·0	70·0	76·2	70·2	77	71	69	109	75·6	79·0	67	67	22·8	22·3	78	73
15	30·055	29·979	76·2	69·0	78·6	68·6	81	73	69	148	77·5	79·6	65	64	21·1	19·8	68	58
16	30·030	29·950	78·0	70·0	79·4	71·8	81	73	67	140	79·0	80·0	66	68	21·5	23·0	66	68
17	29·995	29·897	76·0	71·0	80·8	74·0	83	70	64	142	75·0	78·0	68	71	23·7	25·6	78	71
18	29·941	29·863	73·0	72·0	77·0	73·0	80	72	70	136	76·0	77·8	71	71	26·4	26·0	95	82
19	29·950	29·873	77·5	72·0	79·0	72·6	83	73	70	146	76·0	78·0	70	69	24·8	24·4	76	73
20	29·975	29·897	78·8	74·6	78·0	74·4	82	71	68	140	76·0	78·0	73	73	27·9	27·6	81	84
21	29·973	29·918	76·0	73·8	77·2	73·0	77	72	70	107	76·2	77·8	73	71	27·8	26·0	90	81
22	29·967	29·875	76·0	72·6	81·0	74·0	85	68	66	144	75·8	78·0	71	71	25·7	25·6	84	71
23	29·928	29·828	75·0	73·0	81·4	75·6	84	70	66	147	76·0	78·0	72	72	26·8	27·0	91	76
24	29·897	29·814	73·2	72·5	77·6	74·8	79	73	72	110	77·0	78·0	72	74	27·0	28·3	97	87
25	29·809	29·759	75·0	73·8	82·0	76·0	82	73	71	128	77·0	78·0	74	73	28·2	28·0	94	75
26	29·842	29·811	79·0	76·0	81·4	78·0	86	74	70	145	77·0	78·0	75	76	29·3	30·7	87	86
27	29·945	29·871	74·8	74·0	81·0	78·0	83	74	73	146	76·0	77·0	74	77	28·2	31·4	96	87
28	29·934	29·839	80·0	75·0	82·0	79·0	85	72	70	138	78·0	78·0	73	78	27·4	32·5	79	87
29	29·903	29·860	73·5	72·2	80·4	76·4	83	72	70	144	78·0	79·0	72	74	26·6	28·9	94	83
30	29·948	29·795	74·5	73·0	80·0	75·8	83	72	70	140	78·0	79·0	73	74	27·5	28·9	93	82
31	30·021	29·939	77·0	75·0	82·4	77·4	83	72	69	144	78·5	79·0	74	75	25·9	29·5	91	79
Totals	928·589	926·335	2367·6	2265·8	2452·8	2301·8	2534	2232	2150	4089	2410·6	2449·4	2218	2227	819·7	829·5	2646	2454
Means	29·954	29·882	76·4	73·1	79·1	74·2	81·7	72·0	69·4	131·9	77·8	79·0	71·5	71·8	26·4	26·8	85·4	79·2

METEOROLOGICAL SUMMARY FOR MONTH OF MAY, 1933.

Highest Pressure—30·068″ at 8.30 a.m. on 14th.
Lowest Pressure—29·759″ at 3.30 p.m. on 25th.
Highest Temperature in Shade—86° on 26th.
Lowest Temperature in Shade—68° on 22nd.
Mean Daily Range—9·7°.
Greatest Range—17° on 2nd.
Least Range—3° on 12th and 13th.
Mean Temperature for Month—76·9°.
Greatest Humidity—97 per cent. at 8.30 a.m. on 24th.
Least Humidity—58 per cent. at 3.30 p.m. on 15th.
No. of Days of—Rain, 20; Hail, 0; Thunderstorms, 1; Fog, 0; Gales (force 8 or more), 0.

RAINFALL:—Total, 10·50″; average, 9·97″ for 49 years; difference from normal +0·53″; greatest fall in 24 hours, 2·78″ on 28th.

VISIBILITY SUMMARY—NO. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8.30 a.m.	0	0	0	0	0	0	0	0	0	6	0	2	20	3
3.30 p.m.	0	0	0	0	0	0	0	2	0	2	1	3	19	4

Standard Distance of Objects used for Estimate of Visibility:—X—Nil, A—27 yards, B—55 yards, C—110 yards, D—220 yards, E—550 yards, F—1,110 yards, G—1¼ mile, H—2½ miles, I—4⅓ miles, J—6¼ miles, K—12½ miles, L—18⅔ miles, M—31 miles.

AMOUNT OF CLOUD.

Hour.	Number of cases of total cloud amount of.				
	0	1/3	4/6	7/9	10
8.30 a.m.	2	5	5	8	11
3.30 p.m.	0	4	6	8	13

MAY.

Wind Direction and Force (Beaufort Scale). I		II		Weather (Beaufort Letters). At time of Observation I.	During day I to II.	At time of Observation II.	During night II to I.	Cloud. Amount (0–10). I	II	Form. I	II	Direction whence coming. I	II	Amount of Rain. 7 hours during day measured at 15h. 30m.	17 hours measured next morning at 8h. 30m.	Sunshine. Hours and tenths.	Visibility. I	II	State of Ground. I	II	Day.
(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	
Dir.	Fc.	Dir.	Fc.											in.	in.						
XE.	2	Calm	0	oRz	or	o	or	10	10	cu-nb/nb	cu-nb/nb	N.	S.E.	0·03	0·02	...	I	L	2	I	1
XS.	3	E.	1	c	o	o	bc,b	7	9	ci-cu/cu-nb	ci-st/cu/cu-	NE/E	NE/E	..	Trace	6·2	L	L	1	0	2
lm	0	E.	2	bc	bc	b	bc	5	3	ci-cu/cu-nb	ci/cu	E/E	SE/E	..	Trace	8·4	L	L	1	0	3
lm	0	E.XN.	3	b	b	b	bc	3	3	ci-cu/cu	ci-cu/cu-nb	NE/NE	NE/NE	Trace	Trace	7·8	L	L	1	1	4
lm	0	N.E.	1	b	bc,c	bc	bc	3	6	ci-cu/cu-nb	f-cu/cu	E/E	E.	..	..	6·5	M	M	1	0	5
lm	0	S.S.E.	2	bv	bv	bv	bc,o	0	3	...	ci/cu	...	SE/SE	..	..	9·0	M	M	0	0	6
N.E.	1	S.W.	2	o	or	o	or	9	10	f-cu/cu-nb	nb	N.E.	W.	0·05	0·27	1·0	L	K	0	1	7
lm	0	W.S.W.	4	c	or	or	or	7	10	ci/ci-cu/cu-n	nb	E/NE	W.	0·47	1·57	2·5	L	I	0	1	8
S.E.	3	S.E.	3	orz	o	od	od	10	10	nb	nb	S.	S.E.	Trace	0·11	...	I	I	1	1	9
E.XN.	1	S.S.E.	2	oz	odz	od	od	10	10	cu/cu-nb	nb	N.E.	E.	0·04	0·02	...	I	L	2	1	10
lm	0	E.	2	o	o	o	or	10	10	cu/cu-nb	nb	E.	E.	Trace	0·60	0·8	L	J	1	0	11
S.E.	3	N.	2	o	od	or	or	10	10	cu-nb/nb	nb	E.	N.E.	0·04	0·37	...	L	G	1	2	12
XS.	3	E.	4	oz	ozr	oRz	or	10	10	nb	nb	E.	E.	0·65	0·25	...		G	2	2	13
S.E.	4	E.S.E.	4	o	od	o	o	10	10	nb	nb	S.E.	S.E.	0·01	Trace	...	K	L	0	1	14
	4/5	E.S.E.	4	c	c	bc	c	7	4	ci-cu/cu/nb	cu	N/E	S.E.	..	..	5·7	L	L	1	0	15
	4	E.N.E.	4	c	cr	c	o,bc	7	4	ci-cu/cu-nb	cu/cu-nb	E/E	E.	0·02	..	6·5	L	L	1	0	16
XE.	1	E.N.E.	3	bc	bc	bc	c,od	6	4	ci/cu/cu-nb	cu/cu-nb	E/E	E.	..	0·18	7·8	L	L	0	0	17
N.E.	3	E.N.E.	3	odz	or	o	c,bc	10	10	nb	cu-nb/nb	N.E.	N.E.	0·20	Trace	3·3	I	K	1	1	18
XE.	1	N.E.	2	bc	bc	bc	bc	4	4	ci/ci-cu	cu/cu-nb	E.	N.E.	..	..	7·4	L	L	1	0	19
N.E.	1	E.N.E.	3	bc	bc,o	o	or	5	9	ci/ci-cu/cu-n	cu/cu-nb	E/NE	N.E.	Trace	0·20	6·5	L	L	1	1	20
E.	1	E.N.E.	2	o	od	o	c,bc	9	10	a-cu/nb	nb	N/NE	N.E.	0·13	..	...	K	L	1	1	21
XE.	1	E.N.E.	2	b	b	b	b,bc	2	3	cu	f-cu/cu	E.	N.E.	..	..	8·6	L	L	1	0	22
XE.	1	N.E.	2	c	bc,c	o	or	8	9	ci/ci-cu	ci-cu/cu/cu-	N.E.	N/NE	..	0·20	6·0	L	L	0	0	23
N.E.	3	E.XN.	2	odz	od	o	orq	10	10	cu/cu-nb	nb	N.	E.	0·08	0·09	...	I	L	1	1	24
lm	0	N.XE.	2	0	c	c	bc	10	8	cu/cu-nb	f-cu/st	N.E.	N.	..	..	2·3	M	M	1	0	25
XE.	1	S.	2	bc	bc,c	c	oR	5	7	ci-cu/cu-nb	cu/cu-nb	E/NE	S.	..	1·60	4·6	L	K	1	0	26
lm	0	S.S.F.	2	o	o,c	o	od,c	10	9	cu/cu-nb	cu/cu-nb	N.E.	S.E.	..	0·04	2·1	L	L	1	1	27
lm	0	E.	2	bv	bc,c	o	oR,c	0	9	...	cu/cu-nb	...	E.	..	2·78	6·0	L	M	0	0	28
lm	0	E.S.E.	1	b	bc	o	or,o	3	10	ci-cu	cu/cu-nb/nb	E.	S.E.	..	0·38	5·1	L	L	1	0	29
XW.	1	E.	2	b	bc	c	bc,c	2	7	ci-cu	cu/cu-nb/nb	N.	E.	..	..	5·3	L	L	1	0	30
lm	0	S.E.	2	c	c	bc	bc,b	7	5	ci/ci-cu	cu/cu-nb	N.E.	E.	..	..	6·9	L	L	0	0	31
...	..	...	..	...	...	...	...	299	236	...	...	...	...	1·72	8·78	126·3	..	..	..	..	Totals
...	..	...	..	...	...	...	...	6·7	7·6	...	...	...	...	..	..	4·1	..	..	..	..	Means

WIND SUMMARY.

	Force 8 or More.	4/7.	1/3.	Calms.	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
8.30 a.m.	0	3	17	11	7	3	2	1	4	2	0	1	0	0	0	0	0	0	0	0
3.30 p.m.	0	5	25	1	2	1	3	5	8	3	2	3	1	1	0	1	0	0	0	0
	0	8	42	12	9	4	5	6	12	5	2	4	1	1	0	1	0	0	0	0

Prevailing Direction, E; 8.30 a.m., N.; 3.30 p.m., E.

KATA THERMOMETER OBSERVATIONS IN "SCREEN."

Time of Observation between 9h. and 9h. 30m. F. 464.

MAY, 1933.

Date.	Cooling Power. Dry Kata.	Wet Kata.	Date.	Cooling Power. Dry Kata.	Wet Kata.
1	6·8	9·9	17	7·4	9·8
2	5·8	10·1	18	6·8	10·3
3	7·2	9·1	19	7·2	9·6
4	8·2	10·0	20	8·1	11·4
5	6·0	9·3	21	..	..
6	5·1	7·7	22	7·4	12·1
7	..	..	23	6·4	10·8
8	5·6	8·4	24	6·0	9·7
9	7·1	12·7	25	5·8	9·6
10	8·0	13·3	26	5·9	9·5
11	10·4	13·3	27	5·8	9·7
12	8·1	10·7	28	..	..
13	9·4	12·4	29	6·7	11·9
14	..	..	30	6·5	11·7
15	10·1	12·9	31	7·7	15·7
16	9·1	11·6			
Totals	..	..	..	194·6	293·2
Means	..	....	..	7·2	10·9

WEATHER DIARY—MAY, 1933.

Date.

1. Early morning overcast. Variable breeze force 1/3 falling off to light variable airs 1140, increasing force 2 1915 from E.S.E. gradually backing E. 2400. Light rain to 0930. Overcast all day.
2. Early morning quarter clouded becoming overcast about 0645. E. breeze force 2 gradually increasing force 3 0930, gradually falling off force 2 1600, veering S.E. 2100. Unusual visibility after 1730. Lunar halo 1830 to 2100.
3. Dew in early morning. Fine and quarter to half cloudy all day. S.E. breeze force 1/2 backing to Northerly airs 0510, calm to 1045, gradually increasing force 2 and backing E.S.E. 1325, gradually falling off to calm 1745. Trace of rain during evening.
4. Early morning clear and fine. Light Northerly airs to 0930, then variable between N. and E. force 2/3, falling off to Northerly airs 1850. Cloudy during day. Trace of rain 1100 and 2150. Lunar halo 1830 to 1900. Clear evening.
5. Early morning half cloudy. Dew. Light airs to calm to 0950, then Easterly force 2/3, backing N.N.E. 1435, backing to Northerly airs 1900. Cloudy to half cloudy all day.
6. Clear and cloudless in early morning. Unusual visibility all day. Light Northerly airs to 1115, then variable breeze force 2, falling off to light Northerly airs 1800. Overcast after 2100.
7. Early morning overcast. Calm to light Northerly airs to 0910 then N.E. force 2, gradually backing W.S.W. after 1340, falling off to light airs 1735. Overcast all day. Light shower 1310 and from 1540 to 1810. Cloudy evening.
8. Dew in early morning, quarter cloudy. Light Northerly airs to 0835 then N.N.W. force 3, gradually falling off force 1 and backing S.S.W. 1230, suddenly increasing force 5, falling off force 4 and veering S.W. 1315, increasing force 6 1355, falling off to variable breeze force 1/2 1550. Continuous rain from 1330 to 1630.
9. Overcast and light rain in early morning. Variable breeze force 1/4 to 0525 then S.S.E. force 2/3, gradually backing S.E. 1500, falling off force 1 and backing N. 2135. Overcast all day. Continuous light rain 0100 to 0715 and light shower 1830.
10. Early morning overcast. Variable gusty breeze to 0350 then N. force 1, gradually increasing force 3 and veering E.S.E. 0930, gradually falling off 1330, then variable force 1/2. Light passing showers 0025 to 0425. Overcast and light intermittent drizzle during day.
11. Light variable breeze to 1130 then E. force 2 falling off force 1 1600, variable to 1805 then E.S.E. force 2 backing E.N.E. 2040. Overcast all day. Light passing showers after 1745.
12. Early morning overcast. Variable breeze force 1/3. Light rain to 0120 and light passing showers and drizzle after 1410. Overcast all day.
13. Early morning overcast. Variable breeze force 1/3 to 0905 then E.N.E. force 3/4, gradually veering E.S.E. 1700, gradually falling off force 2/3 2100. Overcast all day. Passing showers to 2010.
14. Overcast in early morning. E.S.E. breeze force 2, gradually increasing force 4 0800 and veering S.E. 1030, gradually backing E.S.E. Overcast all day. Trace of rain 1210 and 1930.
15. Overcast in early morning. E.S.E. breeze force 3/4 increasing force 4/5 1015, gradually backing E. and falling off force 3 2400. Unusual visibility at 0700. Cloudy to half cloudy after 0900.
16. Early morning half cloudy. E breeze force 2/3, increasing force 3/4 1025, veering E.N.E. 1710, falling off and becoming variable after 2100. Half cloudy all day. Shower at 1300. Clear evening.

Date.

17. Overcast in early morning, variable gusty breeze to 0910 then N.E. by E. force 2 increasing force 3 1100, gradually veering E.N.E. 1400 gradually falling off force 2 and backing N.E. 1910, then gusty and variable. Sky cleared about 0930, then quarter cloudy to about 1800. Overcast evening. Light rain at 1845 and 2340.
18. Early morning overcast. Variable gusty breeze to 0305. then N.E. force 2/4, veering E.N.E. 1020, gradually backing N.E. and falling off force 2 2400. Drizzle and light showers to 1310. Cloudy evening.
19. Early morning overcast. Variable airs to 0910 then N.E. force 3 gradually veering E.N.E. 1300, gradually backing N.E. and falling off calm 1820. Cloudy to overcast all day.
20. Dew in early morning, clear and cloudless. Light variable airs to 0830 then N.E. force 3, gradually veering E.N.E. 1100, gradually backing N.E. after 2000 and falling off to light variable airs 2200. Overcast after 0330. Shower at 2030.
21. Early morning overcast. Drizzle and light showers to 1140. Variable breeze force 1/3 falling off to light airs 1700. Overcast all day. Clear night.
22. Dew in early morning, clear and cloudless. Light Northerly airs to 0810 then N.N.E. force 2, gradually increasing force 3 1300, gradually falling off force 1 and veering E.N.E. 1710, falling off to Northerly airs 1830. Clear to quarter cloudy all day. Clear night.
23. Dew in early morning. Quarter cloudy and light Northerly airs then N.E. gradually increasing force 3 1200, falling off to light airs 1700, increasing force 1 1730, backing N. and increasing force 2 2300. Overcast after 0900. Thunder and lightning to W. 2115 to 2200. Light passing showers after 2100.
24. Drizzle and overcast in early morning. Variable breeze force 1/3 to 0850 then N.N.E. force 2 falling off to calm 1145 to 1350, then E.S.E. force 3 backing N. and falling off force 2 1645. Light rain and drizzle to 1130. Overcast day.
25. Overcast in early morning. Gusty Northerly breeze force 3/5 to 0700, then light airs to 1245, then N.N.E. force 2/3 falling off and becoming variable 1950. Unusual visibility all day. Light rain to 0310. Cloudy to overcast all day. Clear night.
26. Clear and cloudless in early morning. Gusty Northerly breeze to 1200, then variable light breeze falling off calm 1900. Overcast after 1600. Heavy rain from 1800 to 1855. Overcast evening.
27. Overcast and rain in early morning. Variable gusty breeze after 0150 gradually falling off calm 0500 then variable force 1 to 1800. Cloudy to overcast all day. Passing showers to 0800 and shower at 1700. Overcast evening.
28. Early morning clear and cloudless. Calm to 0945 then E. force 2, backing E.S.E. 1820, falling off calm 2000 Overcast after 1400. Heavy continuous rain from 1600 to 2035. Overcast evening.
29. Early morning clear and cloudless. Calm to 1040 then variable force 2 falling off to light airs 1830. Overcast after 1430. Passing showers from 1600 to 1830. Cloudy evening.
30. Early morning clear and cloudless. Gust from S. force 3 0020 falling off to light Northerly airs 0200, increasing force 1 0920 and veering S. 1145, increasing force 3 1410 gradually falling off and backing to light Northerly airs 1710. Cloudy to half cloudy during day. Clear night.
31. Cloudy in early morning. Dew. Light airs to calm to 0945, then variable between N. and S.E. force 3 falling off to light airs 1810. Cloudy day. Clear night.

METEOROLOGICAL OBSERVATIONS TAKEN AT SUVA, FIJI,

DURING

JUNE, 1933.

JUNE.

Day.	Air Pressure at Mean Sea Level in the Units of Measurement. I	Air Pressure II	Temperature (degrees F). In Screen. Dry. I	Wet. I	Dry. II	Wet. II	Max.	Min.	In Open. Grass Min. Eve. to Morn.	Max. in Sun Black Bulb in vacuo.	In Ground. I. 1 foot.	4 feet.	Humidity. Dew Point. I	Dew Point. II	Vapour Pressure. I	Vapour Pressure. II	Percentage. I	Percentage. II
			Tenths.				Whole Degrees.				Tenths.							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.		
1	30·038	29·961	80·0	76·0	83·0	76·4	84	74	70	142	78·5	79·0	74	74	28·9	28·3	83	73
2	30·019	29·953	77·0	74·5	82·0	77·0	74	72	68	141	78·0	78·5	73	75	28·0	29·5	89	79
3	30·035	29·968	77·8	73·6	78·6	74·0	81	75	72	137	78·6	79·0	72	72	26·9	27·2	81	80
4	30·049	29·978	73·0	69·6	78·0	74·0	80	69	65	147	77·6	79·2	68	72	23·1	26·9	83	82
5	30·057	29·984	75·0	71·0	78·0	70·0	82	69	68	149	79·0	79·5	69	66	24·1	21·5	81	66
6	30·011	29·942	75·0	68·5	78·0	69·4	80	67	62	143	78·5	79·0	65	65	20·9	20·8	71	63
7	29·975	29·885	76·0	73·0	77·5	73·2	81	76	65	145	76·4	79·0	72	71	26·4	26·2	86	81
8	29·953	29·864	74·0	72·5	76·4	74·0	77	72	71	123	79·0	80·0	72	72	26·6	27·1	93	89
9	29·870	29·778	76·5	74·0	84·0	76·0	87	73	71	147	79·0	80·0	73	72	28·0	27·1	89	68
10	29·858	29·821	78·0	75·0	84·0	78·0	85	73	70	145	78·5	79·0	74	75	28·3	30·1	86	76
11	29·872	29·815	81·6	75·0	81·0	75·6	86	72	70	140	77·6	78·0	73	73	27·3	27·7	73	76
12	29·905	29·860	76·5	72·5	78·0	74·0	80	76	67	138	80·0	81·0	71	72	26·0	26·9	82	82
13	29·941	29·908	77·8	73·0	73·0	71·0	80	73	70	135	79·0	80·0	71	70	25·5	25·0	79	99
14	29·999	29·950	74·2	71·0	78·0	71·6	80	72	70	136	79·0	80·0	69	68	24·6	23·5	86	72
15	29·983	29·906	73·0	72·0	70·0	70·0	77	71	69	97	77·0	79·0	71	70	26·4	25·1	95	100
16	29·924	29·821	70·0	67·0	69·0	68·0	74	67	65	105	80·5	81·0	65	67	21·3	22·9	85	95
17	29·842	29·787	73·0	66·0	75·0	68·0	77	67	66	138	78·0	78·5	62	64	18·7	20·3	68	69
18	29·910	29·866	71·2	65·0	72·8	65·6	75	69	62	131	74·0	78·0	61	61	18·4	18·0	71	67
19	29·926	29·847	71·2	65·0	73·4	67·0	76	68	64	121	73·5	77·0	61	62	18·4	19·3	71	71
20	29·930	29·870	72·0	71·0	75·0	72·6	79	70	69	99	75·0	77·0	71	71	24·2	26·2	95	89
21	29·985	29·867	78·0	74·2	77·0	75·0	81	73	71	143	75·0	77·0	72	74	26·9	28·8	83	91
22	29·947	29·905	75·8	73·8	77·0	74·0	79	72	69	145	76·0	77·0	73	73	27·8	27·3	91	86
23	30·005	29·942	71·8	69·0	75·0	69·0	76	70	68	119	76·5	78·0	67	66	22·9	21·5	85	73
24	30·065	30·002	74·2	69·0	78·0	73·0	79	71	68	140	76·0	77·0	66	71	22·0	25·5	76	78
25	30·083	30·026	73·0	67·0	76·2	68·2	79	71	69	128	74·9	77·5	63	63	19·9	19·8	72	65
26	30·111	30·048	75·4	66·6	77·0	68·8	80	71	68	136	74·6	77·8	60	64	17·8	20·7	61	65
27	30·165	30·064	76·5	68·2	78·0	69·2	81	70	65	140	74·5	78·0	64	64	20·0	20·2	64	62
28	30·076	29·959	73·0	68·0	77·0	70·0	81	67	61	136	74·0	77·0	65	66	21·2	21·9	78	70
29	29·979	29·901	75·0	71·5	77·2	71·0	79	69	66	133	75·0	77·5	70	68	24·1	23·3	84	73
30	29·977	29·914	75·0	72·5	77·6	72·6	80	71	68	135	76·0	78·0	71	71	26·2	25·5	88	78
Totals	899·290	897·392	2250·5	2125·0	2314·7	2156·2	2400	2130	2027	4014	2309·2	2356·5	2058	2072	720·8	734·1	2429	2309
Means	29·983	29·913	75·0	70·8	77·2	71·9	80·0	71·0	67·6	133·8	77·0	78·6	68·6	69·1	24·0	24·5	81·0	77·0

METEOROLOGICAL SUMMARY FOR MONTH OF JUNE, 1933.

Highest Pressure—30·165″ at 8.30 a.m. on 27th.
Lowest Pressure—29·778″ at 3.30 p.m. on 9th.
Highest Temperature in Shade—87° on 9th.
Lowest Temperature in Shade—67° on 6th, 16th, 17th, 28th.
Mean Daily Range—9·0°.
Greatest Range—14° on 9th, 11th and 28th.
Least Range—4° on 12th.
Mean Temperature for Month—75·5°.
Greatest Humidity—100 per cent. at 3.30 p.m. on 15th.
Least Humidty—61 per cent. at 8·30 a.m. on 26th.
No. of Days of—Rain, 16; Hail, 0; Thunderstorms, 0; Fog, 0; Gales (force 8 or more), 0.

RAINFALL:—Total, 7·79″; average, 6·62″ for 49 years; difference from normal, +1·17″; greatest fall in 24 hours, 4·76″ on 15th.

VISIBILITY SUMMARY—NO. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8.30 a.m.	0	0	0	0	0	0	0	0	0	1	0	0	29	0
3.30 p.m.	0	0	0	0	0	0	1	1	0	1	0	0	27	0

Standard Distance of Objects used for Estimate of Visibility:—X—Nil, A—27 yards, B—55 yards, C—110 yards, D—220 yards, E—550 yards, F—110 yards, G—1¼ mile, H—2½ miles, I—4⅓ miles, J—6¼ miles, K—12½ miles, L—18¾ miles, M—31 miles.

AMOUNT OF CLOUD.

Hour.	Number of cases of total cloud amount of. 0	1/3	4/6	7/9	10
8.30 a.m.	1	5	6	9	9
3.30 p.m.	0	3	4	8	15

JUNE.

Wind Direction and Force (Beaufort Scale). I		II		Weather (Beaufort Letters). At time of Observation I.	During day I to 2.	At time of Observation II.	During night II to I.	Cloud. Amount (0–10) I	II	Form. I	II	Direction whence coming. I	II	Amount of Rain. 7 hours during day measured at 15h. 30m.	17 hours measured next morning at 8h. 30m.	Sunshine. Hours and tenths.	Visibility. I	II	State of Ground. I	II	Day.
(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	
Dir.	Fc.	Dir.	Fc.											in.	in.						
N.E.	2	E.	2	b	b	b	bc,b	2	1	ci/ci-cu	cu	E.	E.	..	..	8·1	L	L	0	0	1
Calm	..	E.S.E.	2	b	bc,b	bc	c,or	2	4	cu	cu/cu-nb	E.	E.	..	0·18	6·7	L	L	0	0	2
N.E.	2	E.S.E.	3	c	c	c	c,o	7	8	cu/cu-nb	cu/cu-nb	S.E.	S.E.	..	..	2·2	L	L	1	0	3
Calm	..	E.N.E.	2	c	c,o	o	c,bc	8	10	cu/cu-nb	cu/cu-nb	E.	S.E.	..	..	1·7	L	L	0	0	4
Calm	..	E.S.E.	2	bc	c,o	o	o,c	5	9	ci/ci-cu	f-cu/cu-nb	E.	S.E.	..	..	6·3	L	L	0	0	5
Calm	..	E.N.E.	2	c	c	bc	c,o	7	4	ci/ci-cu	ci-st/cu/st	E.	S/E	..	..	7·2	L	L	0	0	6
Calm	..	E.N.E.	1	c	o	o	or,o	8	10	ci/cu/cu-nb	cu/cu-nb/nb	F/E	E.	..	0·54	3·0	L	L	0	0	7
E.N.E.	2	E.N.E.	2	o	or,c	c	c	10	7	cu/cu-nb	a-cu/st/cu-n	E.	W/NE	0·04	..	0·9	L	L	1	2	8
N.E.	1	N.	3	o	o,c	c	c,o	9	8	a-cu/cu	ci/ci-cu/cu	NE/NE	W/N	..	..	4·9	L	L	1	0	9
N.XW.	2	N.	1	o	c	o	o,c,bc	10	10	cu/cu-nb	a-st/cu-nb	S.E.	N.	..	Trace	1·6	L	L	0	0	10
Calm	..	S.	2	b	bc	bc	or,bc	0	6	...	cu	...	N.W.	..	0·07	8·5	L	L	0	0	11
Calm	..	S.	2	b	bc,c	od	o,bc	2	10	cu	nb	N.E.	S.	Trace	0·03	2·9	L	L	1	1	12
W.XS.	1	W.S.W.	4	bc	c,od	odz	o,b,o	4	10	ci/ci-cu	nb	E.	S.E.	..	Trace	5·9	L	I	1	1	13
Calm	..	E.	2	o	o,c	o	o,od	10	9	cu-nb	cu/cu-nb/nb	E.	E.	..	0·29	0·5	L	L	0	0	14
N.XE.	2	S.S.E.	5	odz	o,or	oRq	or,o	10	10	nb	nb	N.E.	S.E.	3·70	1·06	...	I	F	1	2	15
E.	1	E.XS.	2	o	or	oR	or,o,c	10	10	cu-nb/nb	nb	E.	E.	0·43	0·30	...	L	G	1	2	16
E.XE.	2	S.E.	3	bc	bc	b	bc,c	5	3	ci-cu/cu-nb	cu/cu-nb	W/E	S.E.	..	Trace	6·8	L	L	1	0	17
E.S.E.	2	E.S.E.	1	bc	c,od	o	o,c,o	6	10	cu/nb	cu/nb	E.	S.E.	0·02	..	1·1	L	L	0	0	18
E.N.E.	1	E.	2	o	o,c,o	o	od	9	10	cu/nb	cu/nb	E.	E.	Trace	0·02	0·3	L	L	1	0	19
E.N.E.	1	N.XE.	1	od	od	od	od,c,b	10	10	nb	nb	...	N.	0·01	0·12	0·1	L	L	1	1	20
Calm	..	W.	2	b	bc,c,d	od	od,o,c	3	10	ci-cu/nb	ci/a-st/cu-n	NW/N	SW/SW	0·01	Trace	1·5	L	L	1	1	21
Calm	..	S.	4	bc	bc,c	o	o,c,o	5	10	ci/ci-cu	cu/nb	E.	S.	..	0·21	2·8	L	L	1	0	22
E.S.E	1	E.S.E.	1	o	o,c	o	o,bc	10	10	cu/cu-nb	nb	N.E.	S.E.	..	..	0·2	L	L	1	0	23
E.E.XE.	1	E.N.E.	3	bc	bc,c	c	c,o	6	7	cu/cu-nb	cu/cu-nb	E.	N.E.	..	..	6·4	L	L	1	0	24
N.N.E.	2	E.N.E.	3	o	o,c,o	o	o,c,o	10	10	nb	cu/cu-nb	N.E.	N.E.	..	..	1·4	L	L	0	0	25
N.E.	2	N.E.	3	o	o,c,o	o	o,c	9	9	cu/cu-nb	a-st/nb	N.E.	N.E.	..	..	3·9	L	L	0	0	26
E.XN.	1	E.N.E.	3	c	c,bc	b	b,bc	7	3	ci/ci-cu	ci/cu/cu-nb	E.	N/NE	..	..	4·5	L	L	0	0	27
Calm	..	E.N.E.	3	bc	c	o	o,r,o	3	10	cu/cu-nb	cu/cu-nb/nb	E.	N.E.	..	0·31	5·8	L	L	0	0	28
E.XN.	2	E.XN.	3	c	o	o	o,r,o	7	9	cu/cu-nb	cu/cu-nb	N.E.	E.	..	0·21	4·1	L	L	1	0	29
E.N.E.	1	E.N.E.	3	o	o,r,o	o	o,bc,c	10	5	cu/cu-nb	cu/cu-nb	N.E.	N.E.	0·01	0·23	5·4	L	L	1	0	30
...	..	...	..	...	...	...	...	204	242	...	...	...	...	4·22	3·57	104·7	..	..	..	..	Totals
...	..	...	..	...	...	...	...	6·8	8·1	...	...	...	...	..	..	3·5	..	..	..	..	Means

WIND SUMMARY.

	Force 8 or more.	4/7.	1/3.	Calms.	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
8.30 a.m.	0	2	19	11	2	1	3	4	3	2	2	0	1	0	0	0	1	0	0	0
3.30 p.m.	0	3	27	0	3	0	1	9	5	5	1	1	3	0	0	1	1	0	0	0
	0	5	46	11	5	1	4	13	8	7	3	1	4	0	0	1	2	0	0	0

Prevailing Direction, E.N.E.; 8.30 a.m., E.N.E.; 3.30 p.m., E.N.E.

KATA THERMOMETER OBSERVATIONS IN "SCREEN."

Time of Observation between 9h. and 9h. 30m. F. 464.

JUNE, 1933.

Date.	Cooling Power. Dry Kata.	Wet Kata.	Date.	Cooling Power. Dry Kata.	Wet Kata.
1	..	..	16	7·7	15·7
2	5·7	10·7	17	7·9	16·9
3	6·4	11·8	18	..	..
4	..	..	19	5·4	14·2
5	7·8	12·5	20	6·2	10·3
6	8·0	13·8	21	5·0	8·9
7	7·3	14·7	22	6·3	11·2
8	6·2	10·5	23	7·2	12·3
9	5·2	9·5	24	5·9	10·7
10	5·7	13·7	25	..	..
11	..	..	26	6·4	10·4
12	4·6	8·0	27	6·1	11·2
13	5·8	9·3	28	5·6	9·6
14	5·2	13·7	29	6·1	10·8
15	5·6	10·3	30	7·5	11·7
Totals	..	..	..	156·8	292·4
Means	..	..	..	6·3	11·7

WEATHER DIARY—JUNE, 1933.

Date.

1. Early morning clear and cloudless. Dew. Light airs to calm to 0735 then N.E. force 1, gradually increasing force 2 and veering S. 1300, gradually backing N.E. and falling off to calm 1810. Clear evening.
2. Clear cloudless and dew in early morning. Calm to 1000 then S. force 1, backing S.E. 1120 and increasing force 3 1400, gradually backing E. and falling off force 1 2100. Overcast evening. Shower of rain 2335 to 2345.
3. Early morning overcast. Light E.S.E. breeze to 0340, then suddenly increasing force 3. Overcast to cloudy all day.
4. Cloudy in early morning. E. breeze force 3/4 to 0510 then light Northerly airs veering E. and increasing force 3 0910, backing E.N.E. and falling off force 2 1730. Overcast to cloudy all day.
5. Overcast and dew in the early morning. Light airs to 0920 then E. force 2, gradually increasing force 3 and veering E. by S. 1300. Cloudy all day. Lunar halo 2200.
6. Quarter cloudy in early morning. Dew. E. breeze force 2 to 0310, then light Northerly airs veering E.N.E. and increasing force 3 0900, veering E. 1200, gradually falling off and backing to Northerly airs 1845. Cloudy all day.
7. Overcast and dew in early morning. Light Northerly airs to 0810 veering E. and increasing force 2 1015, backing N. after 1500, falling off to calm 1730, variable force 2 after 2100. Overcast all day. Light rain from 2230 to 2330.
8. Overcast and rain in early morning. Variable breeze force 1/2 all day. Light passing showers to 1215. Overcast to about 2200 then cloudy.
9. Early morning cloudy. Variable breeze force 1/2 to 0850 then N. gradually increasing force 4 1300, gradually falling off to variable airs 1930. Cloudy all day.
10. Early morning overcast Northerly breeze force 1/2 to 1300 then variable and falling off to light airs 1915. Overcast to 1900 then clear and cloudless.
11. Early morning clear and cloudless. Variable airs to 1230, then variable breeze force 1/2. Overcast after 1600. Shower at 1700. Cloudy evening.
12. Clear. cloudless and dew in early morning. W. breeze force 2 gradually falling off to light Northerly airs 0250, backing S. and increasing force 2 1200, becoming variable after 1440, falling off force 1 1650. Overcast after 1430. Light shower of rain at 1850 and 2245.
13. Overcast in early morning. Variable light breeze to 0940 then S.W. by S. force 1, gradually increasing force 2 and backing S.S.E. 1500, suddenly veering S.S.W. and increasing force 4, veering W.S.W. 1545, veering W. 1945, falling off to light airs 2310. Overcast all day. Trace of rain 1530. Clear night.
14. Early morning cloudy. Light airs to 0925 then E. force 3, gradually falling off force 1 2400. Overcast to cloudy all day. Clear evening.
15. Overcast and showers in early morning. Light airs to 0600 then variable force 1/3 falling off calm 0850 to 1120 then E. force 2 increasing force 3 1305, backing S.E. and falling off force 2 1350, veering S 1450 and increasing force 6 1545, backing S.E. and falling off calm 1725 to 1800 then S.E. force 2 increasing force 5 2400 and veering W. after 2325. Passing showers after 0610. Heavy continuous rain from 1315 to 1645, then passing showers and drizzle.

Date.

16. Early morning overcast. Variable breeze, force 1/5 to 0230 then E.S.E. force 2 falling off and becoming variable 1000. Cloudy to overcast all day. Light passing showers to 0830 and from 1200 to 2135.
17. Cloudy in early morning W.S.W. breeze force 4/5, falling off force 2/3 0445 and gradually backing S.W. 0800 suddenly backing S.S.E. and increasing force 3/4 0830, gradually backing E.S.E. and falling off force 2/3 2400. Cloudy to half cloudy all day.
18. Half cloudy in early morning, E.S.E. breeze force 2 increasing force 3 0900, falling off force 2 and backing E.N.E. 1315, variable after 1915. Overcast after 1100. Light shower 1300. Overcast evening.
19. Early morning overcast. Light Northerly airs to 0810 then E.N.E. gradually increasing force 3 1400, gradually falling off force 2 and backing N.E. 1730, backing N. 2130. Overcast all day.
20. Overcast and drizzle in early morning. Light Northerly breeze force 1 to 0935 then E.N.E. force 2 backing N. by E. 1230. Overcast all day. Rain from 0050 to 0100 and passing showers after 1530.
21. Early morning cloudy. Northerly breeze force 2 gradually increasing force 4 0630, falling off calm 0730 to 1045 then S. force 2, gradually veering W. 1525, backing S.W. and falling off calm 1810. Overcast day. Light drizzle from 1415 to 1545. Clear night.
22. Clear and cloudless in early morning. Calm to 1010 then S. by W. breeze increasing force 5 and backing S. 1305, falling off force 4 1450 backing S.S.E. 1745, variable force 3 after 1920. Overcast after 1330. Light showers and drizzle after 1800.
23. Overcast in early morning S. Easterly breeze force 3 to 0320 then Northerly airs to 0655 then S.E. force 1 veering S. by E. 0930 and increasing force 2, backing S.E. 1500, increasing force 3 1730, falling off force 2 2000. Light rain and drizzle to 0300. Overcast day. Cloudy evening.
24. Quarter clouded in early morning. Variable airs to 0210 then E.S.E. force 2, gradually increasing force 4 and backing E. 1200. Cloudy all day. Half cloudy night.
25. Overcast in early morning E.N. Easterly breeze force 3/4 backing N.E. 0800, veering E.N.E. and increasing force 4/5 1010, falling off force 2/3 and backing N.E. 1805. Cloudy to overcast all day. Clear night.
26. Overcast in early morning N. Easterly breeze force 1/3 gradually increasing force 4/5 and veering E.N.E. 1100, falling off force 1 and backing N.N.E. 1715. Cloudy to overcast all day. Clear night.
27. Early morning overcast. Light airs to 0835 then E.N.E. force 3/4, falling off to light airs 1810, increasing force 3 2200 and gradually veering E. 2400. Cloudy day. Clear night.
28. Early morning clear and cloudless. Dew. E. breeze force 3 backing and falling off to Northerly airs 0105, veering E.N.E. and increasing force 3 0920, backing N. 2400. Overcast after 1420. Passing showers after 2240.
29. Early morning cloudy. Rain to 0200. Northerly breeze force 2 falling off to calm 0305 to 0825 then E.N.E. force 3, falling off and becoming variable after 1900. Cloudy to overcast all day. Passing showers after 1600.
30. Early morning quarter cloudy. Variable breeze force 1/3 to 0900 then E.N.E. force 3, increasing force 5 1400, falling off force 1/2 and backing N.E. 1800, veering E.N.E. 2140. Cloudy during morning. Overcast afternoon. Light shower 1700. Cloudy night.

METEOROLOGICAL OBSERVATIONS TAKEN AT SUVA, FIJI,

DURING

JULY, 1933.

JULY.

Day.	Air Pressure at Mean Sea Level in the Units of Measurement.		Temperature (degrees F.) In Screen.						In Open.		In Ground.		Humidity.					
			Dry.	Wet.	Dry.	Wet.	Max.	Min.	Grass Min. Eve. to Morn.	Max. in Sun Black Bulb in Vacuo.	I 1 foot.	I 4 feet.	Dew Point.		Vapour Pressure.		Percentage	
	I	II	I		II								I	II	I	II	I	II
			Tenths.				Whole Degrees.				Tenths.							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.		
1	30·025	29·962	75·0	73·0	79·4	73·4	81	72	69	136	76·0	78·0	72	71	26·8	26·0	91	74
2	29·979	29·877	75·4	73·0	76·4	75·0	80	71	67	139	75·0	77·0	71	74	26·2	28·5	89	93
3	29·933	29·837	74·0	72·5	80·0	73·6	81	69	67	142	77·0	78·0	72	70	26·6	25·3	93	73
4	29·939	29·848	74·0	71·8	78·0	74·0	81	69	66	141	76·5	78·0	71	72	25·9	26·9	89	82
5	29·979	29·912	76·0	73·0	77·4	73·2	78	69	65	123	75·2	77·0	72	71	26·4	26·0	86	81
6	29·998	29·938	71·5	69·0	77·0	72·0	78	68	67	141	75·0	77·0	68	69	23·5	24·6	88	78
7	30·025	29·971	75·0	69·0	76·0	67·6	78	69	67	139	75·0	77·0	66	62	21·5	19·2	73	63
8	30·072	29·989	73·0	65·0	77·0	70·6	78	68	63	134	74·2	77·0	60	67	17·5	22·6	64	72
9	30·062	29·996	70·0	63·0	73·4	64·2	77	68	62	137	73·2	77·0	58	58	16·5	16·4	66	59
10	30·016	29·939	73·0	63·0	76·0	66·0	78	68	59	145	72·5	77·0	56	60	15·2	17·4	56	57
11	30·007	29·947	70·0	66·0	75·2	68·6	77	63	61	136	73·0	77·0	63	65	20·0	20·9	80	71
12	30·038	29·993	69·0	67·0	72·0	68·0	75	63	61	134	72·5	76·0	66	66	21·7	21·6	90	80
13	30·034	29·973	71·8	65·4	75·4	67·0	76	67	65	139	73·0	76·0	61	61	18·6	18·4	70	63
14	30·034	29·946	71·2	63·2	75·0	64·8	76	65	62	122	72·5	76·0	57	58	16·1	16·6	63	56
15	30·010	29·943	73·0	62·2	77·6	68·6	79	65	60	136	73·0	76·0	54	64	14·1	20·2	52	62
16	30·042	29·945	73·4	65·0	78·0	67·8	80	62	58	139	72·0	76·0	58	62	16·9	18·9	62	57
17	30·054	29·941	70·0	66·0	78·0	67·2	79	63	59	139	72·0	75·0	63	60	20·0	17·7	80	55
18	30·046	29·946	69·2	64·8	78·0	67·8	80	67	62	142	73·5	74·0	62	62	18·7	18·9	78	57
19	30·025	29·942	74·0	73·0	80·2	73·0	80	69	65	139	74·0	76·0	72	69	27·3	24·6	95	70
20	30·011	29·982	76·0	71·0	80·4	71·0	82	70	68	141	74·0	75·8	68	65	23·7	21·3	78	61
21	30·022	29·920	72·0	69·0	79·0	70·0	80	66	63	140	74·0	76·0	67	65	22·9	21·1	85	63
22	29·929	29·822	74·0	71·2	81·6	74·6	86	66	64	146	73·4	75·8	69	72	24·6	26·5	87	71
23	29·918	29·868	74·8	70·6	76·0	72·2	78	68	65	144	74·2	74·8	69	70	24·1	25·0	80	83
24	29·987	29·948	74·0	70·0	74·0	69·2	76	71	70	120	75·0	76·0	68	66	23·3	22·0	81	78
25	30·078	30·017	73·0	68·0	74·0	67·8	76	68	66	116	74·0	76·0	65	64	21·2	20·7	77	71
26	30·108	30·034	73·0	66·4	75·0	67·0	77	70	66	135	73·0	76·0	62	62	19·3	19·0	70	65
27	30·056	30·006	74·0	64·8	74·0	66·0	77	69	65	137	73·0	76·0	59	61	17·1	18·3	59	64
28	29·981	29·914	69·0	66·0	73·8	67·6	78	66	64	141	72·5	76·0	64	64	20·5	20·7	85	71
29	29·978	29·914	72·0	68·0	78·2	70·4	79	68	65	137	73·0	75·0	66	66	21·6	21·5	80	66
30	30·039	29·968	72·0	66·8	74·0	66·2	78	69	63	142	73·4	75·4	64	61	20·4	18·3	75	65
31	30·019	29·929	69·0	63·0	75·2	65·0	77	65	61	142	72·7	75·4	59	58	17·0	16·6	70	56
Totals	930·444	928·167	2251·3	2099·7	2375·2	2149·4	2436	2091	1985	4244	2287·3	2363·3	2002	2015	655·2	661·7	2392	2117
Means	30·014	29·941	72·6	67·7	76·6	69·3	78·6	67·5	64·0	136·9	73·8	76·2	64·6	65·0	21·1	21·3	77·2	68·3

METEOROLOGICAL SUMMARY FOR MONTH OF JULY, 1933.

Highest Pressure—30·108″ at 8.30 a.m. on 26th.
Lowest Pressure—29·822″ at 3.30 p.m. on 22nd.
Highest Temperature in Shade—86° on 22nd.
Lowest Temperature in Shade—62″ on 16th.
Mean Daily Range—11·1°.
Greatest Range—20° on 22nd.
Least Range—5° on 24th.
Mean Temperature for Month—73·0°.
Greatest Humidity—95 per cent. at 8.30 a.m. on 19th.
Least Humidity—52 per cent. at 8.30 a.m. on 15th.
No. of Days of—Rain, 16; Hail, 0; Thunderstorms, 0; Fog, 0; Gales (force 8 or more), 0;

RAINFALL:—Total, 1·88″; average, 5·16″ for 49 years; difference from normal—3·28″; greatest fall in 24 hours, 0·56″ on 23rd.

VISIBILITY SUMMARY—NO. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8.30 a.m.	0	0	0	0	0	0	0	0	0	0	0	1	27	3
3.30 p.m.	0	0	0	0	0	0	0	0	0	0	0	1	23	7

Standard Distance of Objects used for Estimate of Visibility:—X—Nil, A—27 yards, B—55 yards, C—110 yards, D—220 yards, E—550 yards, F—1,110 yards, G—1¼ mile, H—2½ miles, I—4⅓ miles, J—6¼ miles, K—12½ miles, L—18⅔ miles, M—31 miles.

AMOUNT OF CLOUD.

Hour.	Number of cases of total cloud amount of. 0	1/3	4/6	7/9	10
8.30 a.m.	0	7	2	20	2
3.30 p.m.	0	12	3	4	12

JULY.

Wind Direction and Force (Beaufort Scale). I		II		Weather (Beaufort Letters). At time of Observation I.	During day 1 to 2.	At time of Observation II.	During night II to I.	Cloud. Amount (0–10) I	II	Form. I	II	Direction whence coming. I	II	Amount of Rain. 7 hours during day measured at 15h. 30m.	17 hours measured next morning at 8h. 30m.	Sunshine. Hours and tenths.	Visibility. I	II	State of Ground. I	II	Day.
(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	
Dir.	Fc.	Dir.	Fc.																		
N.	1	E.N.E.	3	od	o,c	c	o,od	9	7	cu/cu-nb/nb	ci-st/cu	N.	SW/E	Trace	0·10	7·1	L	L	1	0	1
Calm	..	E.N.E.	2	c	o,or	oR	or,o,c	8	10	cu/cu-nb	nb	N.E.	N.E.	0·12	0·14	2·3	L	K	1	2	2
E.N.E.	1	N.E.	2	bc	bc,b	b	bc,c	5	2	ci-cu/cu-nb	ci/cu	E/NE	W/NE	..	..	8·1	L	L	1	0	3
Calm	..	E.N.E.	1	c	c,oz	oz	oz,o	7	10	ci/ci-cu/cu-n	a-st/cu/cu-n	W/NE	E.	..	..	2·2	L	L	1	0	4
Calm	..	E.	1	o	oz	o	or,o	9	10	cu/cu-nb	a-st/cu	N.	E.	..	0·18	5·1	L	L	0	0	5
N.XW.	1	S.XE.	2	o	c,bcv	bv	bv,bcd	9	1	f-cu/cu	cu	N.W.	S.	..	0·02	6·1	L	M	1	0	6
S.E.	2	S.E.	3	c	c	c	or,c	7	7	cu/cu-nb	f-cu/cu-nb	E.	S.E.	..	0·03	6·0	L	L	1	0	7
E.S.E.	3	E.S.E.	3	b	bc,c	o	or,bc	3	10	ci-cu/cu-nb	cu-nb/nb	W/E	S.E.	..	0·03	7·2	L	L	0	0	8
E.XS.	3	E.S.E.	4	o	c	bcy	bc,b	9	5	cu-nb/nb	cu/cu-nb	S.E.	S.E.	..	..	4·9	L	L	0	0	9
E.	1	E.XS.	3	by	by	by	bc,c	2	2	ci/ci-cu	ci-cu/cu	E.	NW/E	..	..	10·4	L	L	0	0	10
Calm	..	S.E.	2	c	c	c	o	7	8	ci/ci-cu	ci/ci-cu/cu-n	W.	SW/E	..	Trace	6·0	L	L	0	0	11
Calm	..	S.XE.	3	od	od,o,c	c	or,o	9	7	cu-nb/nb	ci/ci-st/cu-n	W.	W/SE	0·04	0·30	3·4	L	L	0	0	12
S.E.XE.	2	E.S.E.	3	o	c,bc	b	b,c,d	9	2	fr-cu/cu-nb	cu	E.	S.E.	..	0·01	4·4	L	L	0	0	13
E.XS.	2	E.XS.	3	o	o,c,bc	by	b,c,o,b	9	1	cu/cu-nb	cu	E.	S.E.	..	..	4·6	L	L	0	0	14
E.XN.	2	E.N.E.	3	by	b	b	b	3	2	ci/ci-cu	cu	E.	N.E.	..	..	8·7	M	M	0	0	15
Calm	..	E.	3	bw	bv	bvy	bv,b,o	1	1	cu	cu	...	E.	..	..	9·0	L	M	5	0	16
Calm	..	E.	3	o	c,bc	b	c,o	9	1	cu/cu-nb	cu	E.	E.	..	..	8·2	L	M	0	0	17
Calm	..	E.N.E.	3	ov	ov	ovy	ov,o,or	9	10	fr-cu/cu	a-st	E.	N.E.	..	0·03	4·1	M	M	0	0	18
N.	1	N.N.E.	3	od	o,c	bc	bc,b	9	4	cu/cu-nb	cu/cu-nb	N.	N.E.	0·07	..	6·2	L	L	0	0	19
N.XE.	1	N.N.E.	3	b	b	b	b	2	1	ci/ci-cu	fr-cu	N.E.	N.N.E.	..	..	9·3	L	L	0	0	20
Calm	..	E.N.E.	3	b	b	b	b	2	2	ci/ci-cu	fr-cu	E.	N.E.	..	..	9·1	L	L	0	0	21
Calm	..	N.E.	3	b	b	b	bc,c	2	3	ci/ci-cu	f-cu/cu-nb	E.	N.E.	..	Trace	8·3	L	L	0	0	22
Calm	..	S.	2	c	c,o	od	or,o	8	10	ci-cu/cu/cu-n	nb	N/N	S.	Trace	0·56	4·0	L	L	1	1	23
S.E.	3	S.S.E.	3	o	o	o	or,o	9	10	cu/cu-nb	nb	E.	S.E.	Trace	0·17	0·1	L	L	1	0	24
E.	3	S.	3	o	o	o	od,o	10	10	cu/cu-nb	nb	E.	S.	..	0·03	0·4	L	L	1	0	25
E.	3	E.N.E.	4	o	o	o	o,c,bc	10	10	cu/cu-nb	cu-nb/nb	E.	E.	..	..	0·9	L	L	0	0	26
E.N.E.	3	E.	3	bcy	bc,c	o	o,c,bc	5	10	ci-cu/cu-nb	a-st/fr-nb	E/E	E.	Trace	..	2·9	L	L	0	0	27
Calm	0	N.XW.	3	o	c,o	o	or	9	10	cu/cu-nb	a-st	E.	N.	..	0·02	2·7	L	L	0	0	28
Calm	0	E.N.E.	3	o	o,c,bv	bv	bv,c,or	9	2	cu/cu-nb	cu	E.	N.E.	..	0·02	7·8	L	M	0	0	29
E.	3	E.	3	oq	odq,c	o	o,c	9	10	cu/cu-nb	cu/cu-nb	E.S.E.	E.	0·01	..	3·7	K	L	5	0	30
N.	1	E.N.E.	3	c	c,bc	bcy	bc,b,cv	8	4	st-cu/cu	fr-cu	E.S.E.	N.E.	..	..	8·3	M	M	0	0	31
...	..	...	..	...	...	...	...	216	182	...	...	...	...	0·24	1·64	171·5	..	..	..	..	Totals
...	..	...	..	...	...	...	...	7·0	5·9	...	...	...	...	..	..	5·5	..	..	..	..	Means

WIND SUMMARY.

	Force 8 or more.	4/7.	1/3.	Calms.	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
8.30 a.m.	0	0	18	13	5	0	0	2	7	1	3	0	0	0	0	0	0	0	0	0
3.30 p.m.	0	2	29	0	1	2	2	9	7	3	2	1	4	0	0	0	0	0	0	0
	0	2	47	13	6	2	2	11	14	4	5	1	4	0	0	0	0	0	0	0

Prevailing Direction, E.; 8.30 a.m., E.; 3.30 p.m., E.N.E.

KATA THERMOMETER OBSERVATIONS IN "SCREEN."

Time of Observation between 9h. and 9h. 30m. F. 464.

JULY, 1933.

Date.	Cooling Power. Dry Kata.	Wet Kata.	Date.	Cooling Power. Dry Kata.	Wet Kata.
1	6·3	14·1	17	6·9	10·3
2	..	..	18	6·3	9·1
3	5·9	13·3	19	6·2	9·9
4	6·1	11·7	20	6·1	8·6
5	5·7	9·5	21	5·0	8·3
6	7·1	13·6	22	4·8	9·2
7	7·5	14·5	23	..	..
8	7·7	15·2	24	6·7	9·7
9	..	..	25	6·2	8·9
10	8·9	9·9	26	5·7	10·5
11	8·0	15·0	27	5·8	9·7
12	7·5	13·1	28	5·9	11·2
13	9·4	12·4	29	6·1	12·4
14	8·7	11·1	30	..	..
15	7·3	11·3	31	7·2	13·1
16	..	..			
Totals	..	..	..	175·0	295·6
Means	..	..	..	6·7	11·4

WEATHER DIARY—JULY, 1933.

Date.

1. Early morning cloudy. E.N.E. breeze force 2 to 0430, then variable to 1000, then E.N.E. force 3 increasing force 4 1300, gradually falling off and backing to Northerly airs 1900. Clear day overcast after 2100.
2. Quarter cloudy in early morning. Light Northerly airs to 0930 then variable force 2/3. Cloudy to overcast day. Light shower 0200 to 0235 and passing showers after 1410.
3. Overcast and light drizzle in early morning. Light airs to calm to 0810, then N.N.E. force 2/3 gradually veering E.N.E. and increasing force 3 1415, falling off to light Northerly airs 1815. Cloudy to half cloudy day. Lunar halo 1930 to 2010. Cloudy night.
4. Dew in the early morning. Clear and cloudless, Northerly airs to 1045 then variable force 2, falling off to Northerly airs 1815. Cloudy to half cloudy morning. Overcast after 1400. Cloudy night.
5. Early morning half cloudy. Dew. Light Northerly airs to 1045 then variable force 1/2. Overcast after 1350. Passing showers after 2040.
6. Overcast in early morning. Gusty variable breeze to 0230 then Northerly airs to 1150, backing S. by E. and gradually increasing force 3 1500, veering W.S.W. 2000, falling off to variable airs 2300. Clear to quarter cloudy during day. Overcast and light showers from 1930 to 2200 then cloudy.
7. Cloudy in early morning variable breeze to 0310 then S.E. force 2 gradually increasing force 3 1200, gradually backing E. and falling off force 2 2400. Cloudy day and evening.
8. Early morning quarter cloudy. E. breeze force 2 gradually veering E.S.E. and increasing force 4 0800. Overcast from 1440 to 1900 then cloudy. Light showers from 0200 to 0400 and from 1550 to 1620.
9. Early morning cloudy. E.S.E. breeze force 4 falling off force 2 and backing E. 2030. Cloudy day, clear night.
10. Clear and cloudless in early morning. E. breeze force 2/3, backing N. and falling off to light airs 2000. Quarter cloudy to cloudy day.
11. Early morning cloudy. Light Northerly airs to 1050 then S. force 2 backing S.E. 1220, falling off to light Northerly airs 1710. Cloudy day. Clear night.
12. Cloudy in early morning, light airs to 0840 then W. force 3 gradually falling off to calm 1100, backing S. by E. 1250 and increasing force 4 backing E. and falling off force 1 1750, backing W. 1815 and increasing force 3, backing S. 2310. Overcast to cloudy day. Light drizzle 0830 and light passing showers from 1705 to 2145.
13. Overcast in early morning. S. breeze force 4, gradually veering W. and falling off force 3 0240, backing S.E. 0415, gradually backing E.S.E. 1800. Cloudy after 0900 and quarter cloudy after 1400.
14. Early morning overcast. E.S.E. breeze force 2, falling off force 1 and becoming variable to 0700, then E.S.E. force 2, gradually veering E. 1500, falling off and backing to light Northerly airs 2115. Sky cleared after 0900, then quarter cloudy all day.
15. Overcast in early morning clearing at about 0745 then quarter cloudy. Northerly breeze force 1, gradually veering E.N.E. and increasing force 3 1200, falling off and backing to Northerly airs 1910. Clear night. Unusual visibility all day.
16. Early morning clear and cloudless. Dew. Northerly breeze force 1 gradually veering E.N.E. 1300 and increasing force 3, falling off force 1 and backing N. 1830. Unusual visibility in afternoon. Clear night.
17. Overcast in early morning. Northerly breeze force 2 veering E.S.E. and increasing force 3 1300, gradually backing N.E. and falling off force 1 1800, backing N. 2310. Quarter cloudy after 0930. Overcast after 1830.
18. Cloudy sky and unusual visibility in early morning. Northerly airs to 1000, gradually increasing force 4 and veering E.N.E. 1350, gradually falling off and backing to Northerly airs 1900. Overcast to cloudy and unusual visibility all day.
19. Overcast and drizzle in early morning. Calm to 0300 then N.N.E. breeze force 2, gradually veering N.E. and increasing force 5 1300, gradually falling off force 2 and backing N.N.E. 1810. Cloudy after 1000, clear and cloudless evening.
20. Clear cloudless and dew in early morning. N.E. breeze force 2 gradually backing N.N.E. 0830 and increasing force 3 1100, falling off and backing to Northerly airs 1900. Clear and cloudless evening.
21. Quarter cloudy and dew in early morning. Northerly airs to 0845 gradually veering E.N.E. and increasing force 3 1100, backing N.E. 1400 falling off force 1 and backing N. 1905. Quarter cloudy all day and evening.
22. Early morning clear and cloudless. Dew. Northerly airs to calm to 0855 then increasing force 3, gradually veering N.E. 1500, suddenly backing W. 1610 and increasing force 5, backing S.W. and increasing force 6 1700, gradually falling off force 2 and veering W. by S. 1900. Half cloudy during morning. Overcast after 1620. Cloudy evening.
23. Early morning overcast. Light shower at 0800. Calm to Northerly airs to 1055 then backing S. by E. and increasing force 2, gradually backing S. and increasing force 3 1400, falling off to light airs. Quarter cloudy after 0900. Overcast after 1420. Light passing showers after 1540.
24. Early morning overcast. S.W. breeze force 1 to 0350, suddenly veering S.E. and increasing force 3, gradually increasing force 4 1000, falling off force 3 and backing S.S.E. 1145, becoming variable 1955. Overcast all day. Passing showers after 2300.
25. Overcast in early morning. Variable gusty breeze force 1/3 to 0540 then E. force 2, increasing force 3/4 0930. Overcast to cloudy all day. Passing showers to 0320.
26. Early morning overcast. E breeze force 2, gradually increasing force 4 2010, increasing force 5 2240, backing E.N.E. and falling off force 2 2400. Cloudy to overcast all day.
27. Early morning overcast, gusty E.N.E. breeze force 3/4, backing N.E. 0215, veering E. 0335, backing E.N.E. 0500, veering E. 1235, gradually backing E.N.E. and falling off force 3 1730, falling off and backing to Northerly airs 2010 veering N.E. and increasing force 2 2215. Overcast to cloudy all day.
28. Early morning overcast. E.N.E. breeze force 2, gradually backing and falling off to Northerly airs 0430. Light E.N. Easterly breeze 0925, increasing force 3/4, falling off to light Northerly breeze 1519. Veering E.N.E. force 1/3. Cloudy to overcast all day and night. Light rain 2307 to 2317.
29. Early morning overcast, wind backed N. force 1, 0228, increasing force 3, 0940, veering Easterly and sky clearing, wind gradually falling off after 1830, backing Northerly. Unusual visibility during afternoon, half cloudy night.
30. Drizzle 0002 to 0004 and gusty N.N.E. wind force 1/3, changed Easterly, 0212, increasing force 4, falling off 2056, backing Northerly. Cloudy to overcast all day.
31. Early morning cloudy, gentle to moderate Easterly breeze 0042, falling off 0310 backing Northerly, increasing and veering E.N.E. 0920, gradually falling off after 1635, backing Northerly. Half to quarter cloudy after 0930. Lunar halo 1845.

ADDITIONAL NOTES.

A very dry month. Only five times in the past 49 years has the rainfall for July been less than 1·88 inches viz., 1889, 1·86″; 1890, 0·29″; 1891, 0·70″; 1901, 1·75″; 1912 1·75″.

METEOROLOGICAL OBSERVATIONS TAKEN AT SUVA, FIJI,

DURING

AUGUST, 1933.

AUGUST.

Day.	Air Pressure at Mean Sea Level in the Units of Measurement.		Temperature (degrees F.)										Humidity.					
			In Screen.						In Open.		In Ground.							
			Dry.	Wet.	Dry.	Wet.	Max.	Min.	Grass Min. Eve. to Morn.	Max. in Sun Black Bulb in Vacuo.	I		Dew Point.		Vapour Pressure.		Percentage.	
	I	II	I		II						1 foot.	4 feet.	I	II	I	II	I	II
			Tenths.				Whole Degrees.				Tenths.							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	in.	in.	°	°	°	°	°	°	°		°	°	°	°	mb.	mb.		
1	30·020	29·936	72·8	63·6	75·6	67·0	78	65	61	147	72·8	75·4	58	62	16·4	19·2	58	62
2	30·057	29·974	72·6	66·0	76·2	68·4	78	69	65	135	73·2	75·4	62	63	19·3	19·8	69	66
3	30·096	30·001	72·8	68·4	78·8	68·2	81	68	65	143	73·2	75·4	66	62	21·8	19·1	78	56
4	30·077	29·962	75·4	70·4	79·4	73·8	85	65	61	145	73·2	75·3	67	71	22·8	25·7	78	73
5	30·046	29·953	74·0	71·0	78·4	71·0	81	67	64	142	74·2	75·4	69	66	24·6	22·1	86	68
6	30·043	29·984	73·8	68·0	72·4	68·4	78	68	65	141	75·8	76·0	64	66	20·7	21·6	73	80
7	30·105	30·044	67·0	64·4	70·0	66·0	71	65	63	115	73·3	76·0	63	63	19·6	20·0	86	80
8	30·107	30·031	68·6	67·0	71·8	69·0	75	66	64	129	72·4	76·0	67	67	22·3	22·9	92	86
9	30·092	29·996	73·2	70·0	79·6	71·6	81	68	66	144	73·0	75·8	68	68	23·7	23·3	85	66
10	30·018	29·907	78·2	72·6	84·8	74·4	88	68	65	154	73·8	75·6	70	69	24·8	24·5	76	59
11	29·998	29·956	78·0	72·8	76·8	72·2	79	70	67	143	75·3	76·0	71	70	25·5	25·3	77	79
12	30·100	30·039	72·2	68·8	74·0	68·0	75	70	67	108	74·9	76·0	66	64	22·2	20·7	83	72
13	30·086	30·018	70·4	68·0	71·0	69·0	74	68	66	105	73·9	76·0	66	68	21·9	23·3	88	90
14	30·044	29·916	73·0	71·0	75·0	73·4	77	68	65	120	73·4	76·0	70	73	25·0	27·5	90	93
15	29·985	29·880	75·0	72·0	76·8	75·0	79	71	70	142	74·2	76·0	71	74	25·5	28·8	86	92
16	29·979	29·903	76·0	73·8	78·0	75·4	81	70	68	141	74·8	75·8	73	74	27·8	29·0	90	88
17	30·030	29·935	72·2	71·4	76·0	72·0	77	71	69	140	75·7	76·0	71	70	25·5	25·0	96	82
18	30·036	29·963	71·7	67·9	75·0	68·0	76	70	69	133	75·3	76·0	66	64	21·6	20·3	81	68
19	30·040	29·966	74·6	68·0	76·9	69·7	80	65	63	135	74·3	76·1	65	66	20·9	21·9	70	68
20	30·063	29·982	71·2	68·0	78·2	70·2	82	65	63	143	74·9	76·1	66	66	22·0	21·5	84	66
21	30·082	30·008	75·0	70·0	78·9	72·1	79	66	63	140	75·0	76·2	67	68	22·8	23·7	77	70
22	30·061	30·005	77·0	72·2	78·0	72·5	81	70	66	144	75·0	76·0	69	70	24·6	24·8	78	76
23	30·064	29·988	78·0	72·2	80·0	73·5	82	70	65	143	75·0	76·0	70	70	24·1	25·3	75	72
24	30·089	30·007	75·0	70·5	78·0	72·0	81	70	65	145	76·0	76·2	68	69	23·5	24·1	79	74
25	30·095	30·005	76·0	75·5	79·0	72·2	81	69	64	151	76·0	77·0	75	68	29·9	23·7	98	70
26	30·083	30·022	75·8	71·5	79·5	72·2	81	71	69	145	76·5	77·6	69	69	24·4	23·9	81	69
27	30·051	29·988	74·5	69·2	76·0	69·0	79	72	69	134	76·7	77·9	66	65	22·2	21·1	76	69
28	30·017	29·931	75·8	71·0	79·0	72·2	82	70	67	142	75·8	76·4	68	68	23·7	23·7	78	70
29	29·983	29·865	74·8	71·6	84·6	72·0	85	70	68	155	76·0	76·3	71	66	25·5	21·7	85	52
30	29·989	29·938	74·6	69·4	73·2	67·8	75	72	70	118	76·3	76·6	67	64	22·8	20·5	76	75
31	30·024	29·955	72·8	65·0	74·0	65·0	76	69	66	133	75·0	76·6	60	59	17·5	17·1	64	60
Totals	931·560	929·058	2292·0	2161·2	2384·9	2191·2	2458	2126	2038	4255	2314·9	2359·1	2089	2082	714·9	711·1	2493	2254
Means	30·050	29·970	73·9	69·7	76·9	70·7	79·3	68·6	65·7	130·7	74·7	76·1	67·4	67·2	23·1	22·9	80·4	72·7

METEOROLOGICAL SUMMARY FOR MONTH OF AUGUST, 1933.

Highest Pressure—30·107″ at 8.30 a.m. on 8th.
Lowest Pressure—29·865″ at 3.30 p.m. on 29th.
Highest Temperature in Shade—88° on 10th.
Lowest Temperature in Shade—65° on 1st, 4th, 7th, 19th and 20th.
Mean Daily Range—10·7°.
Greatest Range—20° on 4th and 10th.
Least Range—3° on 30th.
Mean Temperature for Month—73·9°.
Greatest Humidity—98 per cent. at 8.30 a.m. on 25th.
Least Humidity—52 per cent. at 3.30 p.m. on 29th.
No. of Days of—Rain, 17; Hail, 0; Thunderstorms, 0; Fog, 0; (Gales force 8 or more), 0.

RAINFALL:—Total, 2·94″; average, 8·07″ for 49 years; difference from normal—5·13″; greatest fall in 24 hours, 0·79″ on 15th.

VISIBILITY SUMMARY—NO. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8.30 a.m.	0	0	0	0	0	0	1	0	0	3	0	8	15	4
3.30 p.m.	0	0	0	0	0	0	0	0	2	4	2	2	16	5

Standard Distance of Objects used for Estimate of Visibility:—X—Nil, A—27 yards, B—55 yards, C—110 yards, D—220 yards, E—550 yards, F—1,110 yards, G—1¼ mile, H—2½ miles, I—4⅕ miles, J—6¼ miles, K—12½ miles, L—18⅔ miles, M—31 miles.

AMOUNT OF CLOUD.

Hour.	Number of cases of total cloud amount of.				
	0	1/3	4/6	7/9	10
8.30 a.m.	0	5	6	12	8
3.30 p.m.	0	4	8	13	6

AUGUST.

Wind Direction and Force. (Beaufort Scale) I		II		Weather (Beaufort Letters). At time of Observation I.	During day, 1 to 2.	At time of Observation II.	During night, II. to I.	Cloud. Amount (0–10) I	II	Form. I	II	Direction whence coming. I	II	Amount of Rain. 7 hours during day measured at 15h.30m.	17 hours measured next morning at 8h.30m.	Sunshine. Hours and tenths.	Visibility. I	II	State of Ground. I	II	Day.
(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	
Dir.	Fc.	Dir.	Fc.											in.	in.						
E.	2	N.E.xE.	3	bcvy	bc,bv,c	o	o,c	4	9	st-cu/cu	st-cu	E.N.E.	E.N.E.	..	..	7·3	M	M	0	0	1
	1	NEXN	4	o	o,c	c	o,c,bc	10	8	a-st	cu/cu-nb	E.N.E.	N.E.	..	..	3.3	K	L	0	0	2
	1	N.E.	3	bc	bc,b	by	bw	4	2	cu/cu-nb	cu	N.E.	N.E.	..	..	9·3	L	L	0	0	3
m	0	E.S.E.	3	b	b,bc,c	c	bcw,m	1	7	ci	ci/cu/cu-nb	S.S.W.	W.N.W.	..	..	8·8	K	K	5	0	4
m	0	S.S.E.	2	b	b,bc	bc	c,oqr,bc	2	5	ci-st/cu	a-cu	W.N.W.	S.W.	..	0·09	8·4	L	L	5	0	5
	2	S.E.	3	bc	bc,c,o	o	oir,d	4	10	cu	nb	S.S.E.	S.E.	Trace	0·43	5·3	L	I	5	0	6
E.	3	SEXE	2/3	o	oir,d,v	ov	oid,v,c	10	9	nb	cu-nb/nb	E.S.E.	E.S.E.	0·08	0·30	0·3	I	M	1	1	7
S.	2	E.N.E.	3	oid	oidq,c	oid	oidr,c	10	10	st/nb	st/nb	E.	E.N.E.	0·03	0·19	0·9	K	H	2	1	8
	1	N.N.E.	3	c	c,bc	bc	bc,bw	8	6	ci/s-cu/cu	ci/cu	WNW/N	WNW/N	..	..	5·6	L	L	2	1	9
	2	N.N.E.	3	bc	bc,b	bcy	c,bc,bw,m	4	4	s-cu/f-cu/cu	a-cu/cu/f-cu	N.	WNW/N	..	..	8·7	L	K	1	0	10
m	0	S.W.	4	b	b,c,o	o	o,bc,oqr	3	10	ci/st-cu	st/nb	SW/NW	S.S.W.	..	0·04	3·6	L	L	5	0	11
	2/3	E.S.E.	3	o	o	o	ord	10	10	st/nb	st/nb	S.E.	E.S.E.	..	0·05	0·0	K	L	1	0	12
	3	E.S.E.	3	od	ordq	od	od,c,bc	10	10	st/nb	st/nb	E.	E.S.E.	0·07	0·05	0·0	I	I	1	1	13
m	0	E.N.E.	2	c	c,od	o	c,b,od	8	9	ci/cu/nb/st	ci/s-cu/cu-n	WSW/E	WSW/E	0·02	0·61	2·8	K	I	1	1	14
m	0	NEXN	3	o	c,or	c	or,c,bv	9	7	s-cu/cu/nb/	s-cu/cu-n/n	W/E	WNW/N	0·25	0·54	1·3	K	H	1	2	15
m	0	S.	2	bv	bv,bc,c	cv	oir,c	1	8	a-cu-cas	cu/nb	...	N.W.	..	0·27	6·4	M	M	2	1	16
W.	1	SWXS	3	ob	oir,bc,c	o	oir	10	9	st/nb	a-st/nb	S.W.	S.S.W.	0·08	0·05	1·3	F.	L	2	1	17
'ly	1	S.E'ly	2	o	ov	ov	ov,b	10	9	st/nb	a-st	S.E.	S.E.	..	Trace	0·4	M	M	1	1	18
	1	E.S.E.	3	b	b,bc	bc	bc,bw,o	1	4	fr-cu	ci/cu/cu-nb	N.E.	W/E	..	..	8·9	L	L	1	0	19
	1	E.	3	o	ov,bc,b	b	bw,bc,m	9	3	st-cu	cu	W.S.W.	W.	..	..	7·8	L	L	5	0	20
	3	E.XS.	4/5	bc	bcz	bcz	bcz,o,c,p	6	4	cu/cu-nb	ci-st/cu/cu-	E.	E.N.E.	..	0·03	7·7	L	J	5	0	21
E.	2	E.	4	bc	b,bc	bc	bc,c	4	6	ci-cu/cu-n	ci/cu/cu-n	N.E.	W/E	..	..	6·9	L	L	0	0	22
	2	E.	4	c	c,b	b	b,bc,o	7	3	ci-cu/cu-n	cu/cu-nb	E.S.E.	N.E.	..	..	9·3	L	L	0	0	23
N.	3	E.XN.	3	o	o,bc,c	c	bc,o	9	7	f-cu/cu/cu-n	ci-cu/cu-n	N.E.	E.S.E.	..	..	6·5	L	L	0	0	24
	1	E.	4	o	o,c,bc	bc	bc,ord	9	5	f-cu/cu/cu-n	ci-cu/cu-n	E.	SW/NE	..	0·10	6·7	L	L	0	0	25
E.	3	E.	4	o	o,c,b	b	bc,od	9	3	ci-cu/cu-n	cu	SW/NE	N.E.	..	0·04	8·6	L	L	0	0	26
N.	5	E.	5	o	c,o	o	c,od	10	9	cu/cu-nb	cu/cu-nb	E.	E.	..	0·02	1·7	I	I	0	0	27
XN	4	E.	5	c	bc,c	c	o,bc,od	7	7	ci/ci-st/cu	ci/ci-s/cu-n	SW/NE	W/NE	..	0·04	6·7	K	J	0	0	28
	3	N.	2	o	o,c,bc	bcy	bc,c,ord	9	5	a-st	ci/ci-s/cu-n	N.	WSW/N	..	0·16	4·8	K	L	5	0	29
E.	4	SXW	4	o	o,d	o	o	9	10	cu/nb	a-st/nb	S.	S.S.W.	Trace	..	0·5	L	L	1	0	30
E.	3	S.E'ly	3	o	c,o	o	c,og	9	9	a-st	a-st	S.	S.S.E.	..	..	2·0	M	M	0	0	31
...	..	...	..	...	...	...	...	216	217	...	...	...	...	0·53	2·41	151·8	..	..	..	..	Totals
...	..	...	..	...	...	...	...	7·0	7·0	...	...	...	...	..	..	4·9	..	..	..	..	Means

WIND SUMMARY.

	Force 8 or more.	4/7.	1/3.	Calms.	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
8.30 a.m.	0	3	22	6	8	0	3	2	5	1	3	0	2	1	0	0	0	0	0	0
3.30 p.m.	0	10	21	0	1	2	4	2	9	4	4	1	2	0	2	0	0	0	0	0
	0	13	43	6	9	2	7	4	14	5	7	1	4	1	2	0	0	0	0	0

Prevailing Direction, E.; 8.30 a.m., N.; 3.30 p.m., E.

KATA THERMOMETER OBSERVATIONS IN "SCREEN."

Time of Observation between 9h. and 9h. 30m. F. 464.

AUGUST, 1933.

Date.	Cooling Power. Dry Kata.	Wet Kata.	Date.	Cooling Power. Dry Kata.	Wet Kata.
1	6·5	19·1	17	5·7	11·6
2	5·9	14·8	18	6·1	15·3
3	6·1	15·2	19	5·8	13·9
4	6·7	17·8	20	..	..
5	5·8	13·6	21	5·1	11·8
6	4·7	13·1	22	7·4	11·4
7	5·2	16·8	23	7·2	13·9
8	8·1	18·9	24	7·8	15·1
9	5·7	16·6	25	8·6	17·9
10	5·1	13·8	26	8·1	16·7
11	3·7	11·3	27	..	..
12	6·2	15·0	28	6·9	15·3
13	..	..	29	7·2	17·8
14	6·7	16·3	30	9·9	22·7
15	3·5	11·4	31	8·1	20·1
16	4·3	11·1			
Totals	..	..	..	178·1	428·3
Means	...	..	..	6·4	15·3

SEPTEMBER.

Day.	Air Pressure at Mean Sea Level in the Units of Measurement.		Temperature (degrees F.)										Humidity.					
			In Screen.						In Open.		In Ground.							
			Dry.	Wet.	Dry.	Wet.	Max.	Min.	Grass Min. Eve. to Morn.	Max. in Sun Black Bulb in Vacuo.	I		Dew Point.		Vapour Pressure.		Percentage.	
	I	II	I		II						1 foot.	4 feet.	I	II	I	II	I	II
			Tenths.				Whole Degrees.				Tenths.							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.		
1	30·041	29·984	69·2	64·2	71·0	64·4	74	65	63	112	74·0	76·4	61	60	18·1	17·8	75	69
2	30·052	29·975	73·2	67·0	77·6	69·0	80	65	63	149	73·6	76·1	62	65	19·9	20·8	71	63
3	30·019	29·949	74·0	69·8	79·2	72·2	82	66	63	146	74·1	76·0	68	68	23·3	23·7	80	70
4	30·007	29·922	76·2	73·8	79·6	74·8	83	71	68	149	75·1	76·0	72	73	27·1	27·4	89	79
5	30·027	29·954	76·0	73·9	79·8	74·0	83	70	67	151	75·7	76·2	73	71	27·8	26·0	90	75
6	30·016	29·939	74·4	69·2	75·1	68·1	78	72	68	136	76·3	76·3	66	64	22·0	20·3	76	69
7	29·958	29·863	76·0	68·0	76·4	69·4	79	70	67	140	75·2	76·3	63	65	19·8	21·1	65	69
8	29·905	29·847	74·2	70·2	76·5	72·0	79	68	65	117	75·3	76·4	68	70	23·3	25·3	81	79
9	29·917	29·837	76·1	72·9	80·4	73·8	84	71	69	148	75·2	76·3	72	79	26·4	25·3	85	72
10	29·935	29·892	77·8	74·0	77·2	75·0	88	73	71	159	76·2	76·4	72	74	26·9	28·8	83	90
11	29·994	29·913	77·4	74·8	83·6	77·2	85	73	71	144	76·8	76·8	73	75	28·0	29·3	88	74
12	29·993	29·921	80·2	76·0	81·0	76·6	84	74	72	144	78·1	76·7	74	75	28·9	29·2	82	82
13	30·012	29·904	78·0	73·2	82·0	75·4	83	74	71	144	78·3	77·0	71	73	25·5	27·3	79	73
14	30·017	29·958	76·2	74·0	81·2	75·8	85	73	71	152	78·0	77·2	73	73	27·8	27·7	90	77
15	30·070	29·995	76·8	72·4	76·2	71·6	81	74	72	149	78·6	77·4	70	69	25·3	24·4	80	79
16	30·125	30·014	74·4	68·0	75·2	70·4	79	72	69	141	77·9	77·7	64	67	20·1	22·8	71	78
17	30·046	29·952	77·2	69·2	77·4	70·6	82	70	68	149	77·0	77·8	64	66	20·7	21·9	66	70
18	30·022	29·959	77·6	72·0	77·2	72·6	80	72	69	130	77·2	77·8	70	70	24·8	25·3	76	80
19	30·083	30·025	78·0	72·0	80·4	73·8	83	72	70	153	77·0	77·6	69	70	24·1	25·3	74	72
20	30·128	30·048	76·8	71·2	80·4	73·4	82	74	71	143	77·7	77·6	68	69	23·9	24·6	75	70
21	30·110	30·028	78·2	71·4	80·0	71·0	82	71	68	148	77·8	77·6	67	66	22·8	21·9	70	63
22	30·061	29·998	74·0	69·8	80·0	71·4	83	67	64	155	76·7	77·6	68	67	23·3	22·6	80	64
23	30·037	29·976	77·0	68·6	76·2	68·0	82	71	67	148	77·9	77·4	64	63	20·0	19·8	63	64
24	30·031	29·948	74·2	69·8	76·0	71·6	80	70	67	154	77·8	77·4	67	69	22·6	24·4	79	80
25	30·020	29·919	76·0	70·4	81·0	72·2	82	72	68	148	77·0	77·3	67	67	23·0	22·8	75	64
26	29·976	29·895	78·0	72·2	80·2	73·8	83	69	66	154	78·0	77·3	69	70	24·1	25·3	75	73
27	29·976	29·917	76·8	70·8	75·2	71·4	81	73	70	151	78·3	77·2	68	69	23·3	24·1	73	83
28	30·021	29·963	75·4	70·0	76·2	69·0	79	71	69	137	77·7	77·4	66	65	22·2	21·1	76	68
29	30·053	29·992	74·2	65·2	75·8	66·8	79	70	67	156	76·6	77·4	59	61	17·1	18·6	60	61
30	30·098	30·033	75·2	66·8	74·0	67·0	79	70	65	147	76·4	77·3	61	63	18·4	19·5	63	68
Totals	900·750	898·520	2278·7	2120·8	2342·0	2152·3	2444	2123	2039	4354	2301·5	2309·9	2029	2056	700·5	714·4	2290	2178
Means	30·025	29·951	76·0	70·7	78·1	71·7	81·5	70·8	68·0	145·1	76·7	77·0	67·6	68·5	23·4	23·8	76·3	72·6

METEOROLOGICAL SUMMARY FOR MONTH OF SEPTEMBER, 1933.

Highest Pressure—30·128″ at 3.30 a.m. on 20th.
Lowest Pressure—29·837″ at 3.30 p.m. on 9th.
Highest Temperature in Shade—88° on 10th.
Lowest Temperature in Shade—65° on 1st and 2nd.
Mean Daily Range—10·7°.
Greatest Range—16° on 3rd and 22nd.
Least Range—6° on 6th.
Mean Temperature for Month—76·1°.
Greatest Humidity—90 per cent. at 8.30 a.m. on 5th and 14th and at 3.30 p.m. on 10th.
Least Humidity—60 per cent. at 8.30 a.m. on 29th.
No. of Days of—Rain, 19; Hail, 0; Thunderstorms, 1; Fog, 0; Gales (force 8 or more), 1.

RAINFALL:—Total, 1·53″; average, 7·42″ for 49 years; difference from normal—5·89″; greatest fall in 24 hours, 0·35″ on 9th.

VISIBILITY SUMMARY—NO. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8.30 a.m.	0	0	0	0	0	0	0	0	0	0	1	15	9	5
3.30 p.m.	0	0	0	0	0	0	0	0	0	3	5	9	13	0

Standard Distance of Objects used for Estimate of Visibility:—X—Nil, A—27 yards, B—55 yards, —C110 yards, D—220 yards, E—550 yards, F—1,100 yards, G—1¼ mile, H—2½ miles, I—4⅓ miles, J—6¼ miles, K—12½ miles, L—18⅔ miles, M—31 miles.

AMOUNT OF CLOUD.

Hour.	Number of cases of total cloud amount of.				
	0	1/3	4/6	7/9	10
8.30 a.m.	0	1	6	20	3
3.30 p.m.	0	3	6	15	6

SEPTEMBER.

Wind Direction and Force (Beaufort Scale). I		II		Weather (Beaufort Letters). At time of Observation I.	During day 1 to 2.	At time of Observation II.	During night II to I.	Cloud. Amount (0–10) I	II	Form. I	II	Direction whence coming. I	II	Amount of Rain. 7 hours during day meatye at 51h. 30m.	17 hours measured next morning at 8h. 30m.	Sunshine. Hours and tenths.	Visibility I	II	State of Ground. I	II	Day.
(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	
Dir.	Fc.	Dir.	Fc.											in.	in.						
N.	2	S.E'ly	1	og	og,v,d	og	od	10	10	a-st	st/nb	...	E.S.E.	0·04	0·03	0·0	M	I	0	5	1
E.	2	E.	4	ov	ov,c,bc	bc	bc,c	9	5	st-cu	fr-cu/cu	...	E.N.E.	..	..	6·4	M	L	0	0	2
N.E.	1	E.	4/5	c	c	c	c,odq	8	7	a-st/st-cu	cu/cu-nb	N.E.	N.E.	Trace	0·05	6·2	L	L	0	0	3
N.XE.	2	E.	4	c	c,bcz	bcz	o,cr	8	6	ci/ci-s/cu-n	ci/cu/cu-n	N.E.	SW/NE	Trace	0·04	3·5	K	J	5	0	4
Calm	0	S.E.	3	c	c,bc	b	bc,b,c	8	6	cu/cu-nb	cu/cu-nb	E.N.E.	E.S.E.	..	..	7·2	L	K	5	0	5
S.E.	3	S.E.	3	c	c	c	o,bc	8	8	st-cu/cu-nb	st-cu/cu/nb	E.S.E.	E.	..	..	1·1	L	L	0	0	6
E.S.E.	3	E.S.E.	3	bc	bc,c,o	o	o	4	10	ci-st/cu	a-st/fr-st	...	E.S.E.	..	..	4·6	L	L	0	0	7
N.N.E.	1	E.	4	o	o	o	od,c	9	10	a-st/cu-nb	a-st/fr-st	N.E.	E.	Trace	0·09	1·1	K	K	0	5	8
N.E.XN.	2	N.E.	4	c	bc,c	c	c,olr	7	8	ci/s-cu/cu/n	ci-s/s-cu/cu	SW/NE	W/NE	..	0·35	6·5	K	K	5	0	9
N.N.E.	3/4	E.XS.	2	c	bc,otlqkrd	odtlq	ord,c,b	7	9	s-cu/f-cu	cu-nb/nb	WNW/N	W.N.W.	0·23	0·01	5·3	L	K	1	1	10
Calm	0	S.E.	3	b	b,bc	bc	cl,bc	2	4	cu	st-cu/cu/nb	E.N.E.	N.W./E.	..	..	9·1	L	L	1	0	11
E.	3/4	E.S.E.	4	bc	bc	bc	bc,c	6	6	cu/nb	cu/cu-nb	E.	E.	..	..	7·4	K	J	0	0	12
E.S.E.	3	E.N.E.	4	c	bc,o,bz	bz	bz,bc,c	8	3	cu/nb	cu/nb	E.N.E.	N.E.	Trace	..	4·8	L	J	0	0	13
Calm	0	S.E.XE.	3	c	bc,c	c	or,c	7	7	cu/nb	ci/ci-s/cu/n	E.	WNW/E	..	0·04	6·3	K	L	0	0	14
S.E.XE.	4	S.E.	5/6	o	bc,o	ojr	c,o	9	10	cu-nb/nb	nb	E.	S.E.	..	Trace	4·8	K	I	0	0	15
S.E.	4/5	E.N.E.	2	o	c,o	o	od	10	10	a-st	a-st	W.N.W.	...	..	0·05	0·9	K	K	0	0	16
E.N.E.	4	E.	4	c	c,o	o	o	8	9	ci/ci-cu/cu/n	st-cu	SW/NE	W.	..	..	3·2	K	K	0	0	17
E.N.E.	3	E.	4	o	c,or	o	c,o	9	9	st-cu/cu	ci-st/nb	W/NE	W/ENE	0·04	Trace	1·2	K	J	0	0	18
E.S.E.	3	E.S.E.	4	o	bc,c	c	c,or	9	8	st-cu	ci/ci-s/cu/cu	E.	W/E	..	0·03	6·6	K	K	0	0	19
E.	4	E.XS.	4/5	o	o,bc,c	cz	c,bc,or	9	7	st-cu/cu-nb	cu/cu-nb	E.	E.N.E.	..	0·05	6·2	K	I	0	0	20
N.E.XE.	3	E.	4/5	bc	od,bc	bz	bz,bc	6	3	cu-nb	cu	E.N.E.	N.	0·03	..	8·3	K	J	0	0	21
Calm	0	E.S.E'ly	3	bc	bc	bc	bc	6	4	st-cu/cu	fr-cu/cu	E.	W.	..	..	9·2	K	L	0	0	22
E.S.E.	4	S.E.XE.	4	bc	bc,c	c	c,or,ir	6	8	s-cu/f-cu/cu	cu	E.N.E.	E.	..	0·13	6·7	M	K	0	0	23
S.E.XE.	4	E.S.E.	4	o	od,c	o	od,c	9	9	cu-nb/nb	cu/nb	E.S.E.	E.S.E.	0·02	0·01	1·3	J	K	5	0	24
E.XS.	3	E.XS.	4	c	bc,b	b	b,o,c	8	3	cu/cu-nb	fr-cu/cu	E.	E.N.E.	..	..	8·1	K	L	0	0	25
E'ly	2	E.S.E.	3	c	c,bc,o	o	od	7	9	st-cu/nb	cu/nb	N.N.E.	N.E.	..	0·03	4·2	M	L	0	0	26
S.E.XE.	3	S.E.	3	o	c,od	od	odrq	10	10	a-st	nb	E.	E.S.E.	Trace	0·22	1·3	L	L	0	5	27
S.E.	2	S.E.	4	c	c	c	c,od	8	8	ci/cu/nb	cu/nb	W./E.	WNW/E	..	0·01	2·2	K	L	1	0	28
E.S.E.	3	S.E.XE.	4	cy	c,od	o	o,c,bc	8	9	cu/nb	cu/cu-nb	W.N.W.	E.S.E.	0·01	..	4·3	M	L	0	0	29
S.E.XE.	4	E.S.E.	4	bc	bc,cr	c	c,b	4	8	fr-cu/cu	cu/cu-nb	E.S.E.	E.S.E.	0·02	..	5·3	L	L	0	0	30
...	..	...	..	...	...	...	...	227	223	...	...	...	...	0·39	1·14	143·3	..	..	..	..	Totals
...	..	...	..	...	...	...	...	7·6	7·4	..	...	...	...	..	..	4·8	..	..	..	..	Means

WIND SUMMARY.

	Force 8 or more.	4/7.	1/3.	Calms.	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
8.30 a.m.	0	9	17	4	2	2	3	2	5	5	7	0	0	0	0	0	0	0	0	0
3.30 p.m.	0	19	11	0	0	0	1	2	10	7	10	0	0	0	0	0	0	0	0	0
	0	28	28	4	2	2	4	4	15	12	17	0	0	0	0	0	0	0	0	0

Prevailing Direction, S.E.; 8.30 a.m., S.E.; 3.30 p.m., E. to S.E.

KATA THERMOMETER OBSERVATIONS IN "SCREEN."

Time of Observation between 9h. and 9h. 30m. F. 464.

SEPTEMBER, 1933.

Date.	Cooling Power. Dry Kata.	Wet Kata.	Date.	Cooling Power. Dry Kata.	Wet Kata.
1	5·2	12·9	16	5·4	17·2
2	8·1	17·8	17	..	..
3	..	..	18	5·1	14·9
4	4·9	14·5	19	5·6	14·1
5	4·3	13·0	20	6·9	15·0
6	5·1	14·4	21	7·2	17·8
7	6·5	19·3	22	6·0	15·0
8	5·9	15·2	23	5·2	17·2
9	5·7	15·5	24	..	..
10	..	..	25	5·6	14·3
11	5·5	15·0	26	4·9	16·0
12	4·7	15·0	27	5·4	14·1
13	5·0	16·6	28	6·4	14·4
14	6·2	14·7	29	5·7	17·2
15	5·0	14·4	30	6·0	16·6
Totals	..	..	..	147·5	402·1
Means	..	..	..	5·7	15·5

WEATHER DIARY—SEPTEMBER, 1933.

Date.

1. Early morning overcast and gloomy; Northerly winds force 1/2 veering N.E. 0916 and to E. then S.E. variable 1018, backing N. Easterly 1755. Unusual visibility between 0920 and 1100. Drizzle 1155 to 1205, 1342 to 1345 and 1556 to 1601. Overcast night.
2. Early morning overcast, light Northerly winds and unusual visibility. Light Easterly breeze 0822, gradually increasing, falling off after 1600 backing Northerly. Sky cleared about 1130. Cloudy night.
3. Early morning half cloudy and Northerly airs to calm. N.E. airs 0818, gradually increasing force 4/5 veering E., gradually falling off after 1600 backing E.N.E. Trace of rain 1120. Cloudy all day and night.
4. Variable squally winds between N.E. and N. in early morning and cloudy. Drizzle 0040 to 0120. Light N. by E. breeze 0750, increasing force 4, veering E. 1300, falling off 1700 backing E.N.E. Calm 2020. Half cloudy afternoon and slight haze. Cloudy to overcast night.
5. Early morning overcast and N.N.E. airs to calm. Rain 0758 to 0805. Light S.W. breeze 0844, increasing force 3, backing S.E. and sky clearing. Half to quarter cloudy night.
6. Early morning fine, half cloudy; cloudy after 0800; overcast night. Gentle to moderate S.E. breeze all day and night.
7. Early morning fine, half cloudy and gentle S.E. breeze backing E.S.E. gradually backing E.N.E., falling off 2010. Northerly airs 2258. Sky covered about 1200; overcast night.
8. Northerly airs to calm and overcast in early morning. N.N.E. airs 0706, veering E. increasing force 4/5, falling off to N. after 1855. Gentle E. breeze 2022, gradually backing N.N.E. force 4/5. Drizzle 1858 to 1904, 2020 to 2030, 2112 to 2118 and 2150 to 2200. Overcast all day and night.
9. Gentle N.N.E. breeze 0100, gradually falling off, increasing again 0700. Early morning cloudy, clearing 0845, gradually covering after 1500. Lightning 1845 to 1930. Rain 2200 to 2245. Gentle breeze after 2105, gradually falling off.
10. Light to gentle N.N.E. breeze 0300. Half to three-quarter cloudy in early morning. Gentle to moderate breeze 0824, veered E.N.E. 1136 backing N.E. by N 1259. Thunderstorm 1355 to 1605. Line squall, with rain and drizzle from Westerly 1413 reaching a maximum of 43 m.p.h. (force 8) at 1414 then rapidly falling off. backing S. then E.S.E. then N.N.E. falling off to Northerly airs 1725. The thunderstorm was severe during the squall which could be heard approaching as though it were distant thunder; temperature fell 7° and the barometer rose two-hundreths. Thin drizzle 1730 to 1735. Cloudy night.
11. Early morning fine, clear sky and Northerly airs to calm. Light S.W. breeze 0930, backing S.E. 1004 increasing force 3, gradually backing E. after 1800. N.E. airs 2312. Threatening sky to N.W. in afternoon, sky gradually covering after 1545. Lightning 2150 to 2300.
12. Early morning fine, half cloudy and N.N.E. airs. Light E.N.E. breeze 0458, gradually increasing veering E.S.E. backing E. 1700, falling off to E.N.E. airs after 2120. Cloudy night.
13. Early morning fine, cloudy and E.N.E. airs. Gentle E.S.E. breeze 0755, increasing force 4, gradually backing N.E. after 1400, falling off after 1800. Sky covered 1240 ,trace of rain 1302, clearing 1415. Light haze during afternoon. Zodiacal light 1905. Clear night.
14. Early morning fine, half cloudy and N.E. airs. Light S.S.W. breeze 0913, backing S.E. force 2/3, increasing force 3/5, 1725. Sky gradually covered, light rain 1750 to 1805.

Date.

15. Early morning overcast and moderate to fresh S.E. breeze; fresh to strong breeze after 1125. Half cloudy 0910 to 1505, then overcast. Rain visible to W.N.W. during the afternoon.
16. Moderate to fresh breeze after 0035. Cloudy to overcast all day, wind gradually falling off backing N. Easterly. Drizzle 1818 to 2200. Gentle to moderate E. breeze 2242.
17. Light N.E. winds 0240. Cloudy to overcast all day. Gentle E.N.E. breeze 0816 veering E. increasing, falling off after 1700 backing N.E.
18. Early morning overcast and light N.E. wind. Gentle E.N.E. breeze 0820 increasing force 3/5, veering E. gradually falling off after 1600 backing E.N.E. Rain 1149 to 1151 and 1348 to 1400. Cloudy night.
19. Early morning cloudy and variable airs to calm. Gentle E. to E.S.E. breeze 0740 increasing force 4/5, falling off to force 3 after 1600. E.N.E. breeze 2044. Rain 2007 to 2014.
20. Early morning overcast and gentle E. breeze increasing force 4/5, gradually falling off after 1400, backing N.E. after 1630. Half to 3/4 cloudy during the day, slight haze during the afternoon. Trace of rain at 1735, then half cloudy.
21. Cloudy and light N.E. wind in early morning. Rain 0412 to 0417. Wind increased force 4/5 veering E. falling off 1642 backing N.E. Drizzle 0936 to 0946, then half to quarter cloudy. Slight haze during afternoon.
22. Early morning fine, half cloudy and Northerly airs to calm. Light E. breeze 0905 veering E.S.E. variable force 3, falling off after 1700. N.N.E. airs 2050, changed suddenly to E.S.E. 2338 increasing force 3. Half cloudy night.
23. Early morning fine, half cloudy and gentle S.E. to E.S.E. breeze increasing force 4. Sky gradually covered after 1430. Showers at 1559 and 1934, each lasting 3 minutes. Wind freshened force 4/5 1642. Cloudy night.
24. Cloudy to overcast all day. Light intermittent rain 0308 to 0700. Light variable winds 0403. Moderate to fresh E.S.E. breeze 0648 backing E. 2000. Drizzle 0918 to 0926 and 1916 to 1920.
25. Early morning fine cloudy and gentle E. breeze, increasing force 4 and sky clearing. Sky covered 1700, wind falling off backing E.N.E.
26. Fine cloudy, and Northerly airs to calm in early morning. Light variable E. breeze 0800 gradually veering S.E, force 3/4, falling off to force 2, 2320. Cloudy night. very thin drizzle 2304.
27. Very thin drizzle to 0200. Early morning overcast, wind gradually increased after 0130 to force 3. Thin drizzle 1528 to 1540. Drizzle and rain 2214. Squally winds force 1/3 after 2225 between S.E. and N.E.
28. Drizzle and rain to 0242 and squally winds. Light S.E. breeze 0248 increasing force 3 0855, then gradually increasing force 4. Cloudy all day; overcast night, drizzle 1742 to 1752.
29. Gentle E.S.E. breeze after 0440. Cloudy all day. Gentle to moderate S.E. by E. breeze after 0900. Drizzle 1238 to 1243.
30. Early morning fine, half cloudy and gentle to moderate S.E. by E. breeze, backing E.S.E.; frequent gusts force 5 during the day. Cloudy afternoon. Light rain 1350 to 1358; clear night.

ADDITIONAL NOTES.

A very dry month and cloudy. Boisterous trade winds blew for the greater part of the month, reaching force 6 to 7 at times. A line squall occurred on 10th, particulars of which are given in the weather diary.

METEOROLOGICAL OBSERVATIONS TAKEN AT SUVA, FIJI,

DURING

OCTOBER, 1933.

OCTOBER.

Day.	Air Pressure at Mean Sea Level in the Units of Measurement.		Temperature (degrees F.)										Humidity.					
			In Screen.						In Open.		In Ground.							
			Dry.	Wet.	Dry.	Wet.	Max.	Min.	Grass Min. Eve. to Morn.	Max. in Sun. Black Bulb in Vacuo.	I		Dew Point.		Vapour Pressure.		Percentage.	
	I	II	I		II						1 foot.	4 feet.	I	II	I	II	I	II
			Tenths.				Whole Degrees.											
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.		
1	30·121	30·022	77·0	67·0	74·4	66·8	79	71	67	152	76·6	77·5	61	62	18·2	18·9	57	65
2	30·090	30·008	72·0	73·8	73·8	65·0	79	67	64	145	75·3	76·8	59	59	16·8	17·1	62	60
3	30·052	29·976	72·2	63·8	76·8	66·2	81	66	63	147	75·3	76·3	58	60	16·2	17·5	61	54
4	30·056	30·018	72·8	65·4	75·7	66·7	77	67	64	132	75·4	76·2	61	61	18·1	18·6	65	61
5	30·050	29·997	73·2	65·8	70·4	66·6	76	67	64	116	74·0	76·2	61	63	18·1	20·0	66	81
6	29·957	29·856	72·2	68·8	72·4	70·4	75	67	66	123	73·3	76·1	66	69	22·2	24·2	83	90
7	29·931	29·852	72·8	70·2	79·8	72·2	82	64	62	153	72·8	76·0	69	69	24·4	23·9	87	68
8	29·952	29·914	77·6	71·4	78·0	72·7	80	70	67	139	74·9	75·8	69	70	24·1	24·8	73	77
9	29·945	29·870	77·0	73·8	80·0	74·8	80	74	72	136	75·4	75·7	73	73	27·3	27·4	85	78
10	30·002	29·906	79·0	74·6	82·4	73·2	85	73	69	152	75·8	75·9	72	68	27·2	23·7	80	63
11	29·967	29·920	76·4	76·0	82·0	77·2	83	74	71	140	76·4	75·8	75	75	29·9	29·5	98	80
12	29·991	29·913	81·0	76·0	82·0	76·4	85	76	74	145	77·2	76·0	74	74	28·4	28·7	79	77
13	30·014	29·934	78·8	74·4	81·4	76·2	84	74	71	151	77·9	76·1	72	74	27·2	28·4	80	78
14	29·991	29·883	80·2	72·8	82·6	73·0	84	72	68	147	78·3	77·2	69	69	23·9	24·0	69	61
15	29·944	29·840	80·2	72·0	81·0	72·0	84	71	66	147	78·5	77·6	68	67	23·3	24·2	66	64
16	29·944	29·800	80·8	73·0	81·0	74·0	84	71	65	155	77·8	76·5	69	71	24·2	25·6	67	70
17	29·915	29·842	77·6	71·8	81·2	72·8	84	73	69	147	79·0	77·7	69	68	24·1	23·5	75	66
18	29·901	29·799	78·0	72·0	80·8	75·4	84	72	68	147	79·0	78·0	69	73	24·1	27·7	74	77
19	29·895	29·802	73·8	73·2	75·0	73·8	76	72	71	127	76·0	78·0	73	74	28·0	28·2	97	94
20	29·825	29·762	81·8	74·8	79·0	76·2	87	73	72	159	76·8	78·1	72	75	26·5	29·3	71	87
21	29·921	29·844	74·0	72·3	79·8	75·0	82	73	71	154	77·4	78·8	72	73	26·6	27·4	91	79
22	29·983	29·888	76·2	72·0	80·4	75·0	83	71	71	145	77·8	78·6	70	72	25·0	26·7	81	77
23	29·997	29·921	76·6	74·0	78·0	75·0	80	73	72	150	77·3	78·7	73	74	28·0	28·3	88	86
24	29·979	29·920	73·0	70·8	74·8	69·4	76	72	71	106	77·7	78·6	70	66	25·0	22·2	89	75
25	29·992	29·943	72·6	70·9	71·7	70·1	76	69	68	116	76·6	78·7	71	70	25·7	24·8	91	92
26	30·040	29·983	75·6	72·8	76·9	73·3	78	71	69	115	76·3	78·4	72	72	26·4	26·6	87	83
27	30·095	29·995	75·2	70·0	79·4	72·0	81	72	70	147	76·3	78·2	67	68	22·8	23·0	77	69
28	30·014	29·875	77·8	70·4	80·4	71·8	82	69	67	155	77·0	78·2	66	67	22·1	22·6	68	64
29	29·891	29·783	79·4	73·6	81·8	74·2	85	70	68	153	78·0	78·0	70	71	25·1	25·8	75	69
30	29·912	29·819	81·2	74·6	83·0	76·0	84	74	71	129	79·1	78·1	71	73	26·3	27·5	73	71
31	29·956	29·889	81·4	75·4	81·2	76·3	85	75	73	151	79·3	78·6	72	74	27·0	28·4	75	79
Totals	929·323	926·774	2377·4	2227·4	2437·1	2249·7	2521	2203	2124	4381	2378·5	2396·4	2133	2154	752·2	768·5	2390	2395
Means	29·978	29·896	76·7	71·9	78·6	72·6	81·3	71·1	68·5	141·3	76·7	77·3	68·8	69·5	24·3	24·8	77·1	74·0

METEOROLOGICAL SUMMARY FOR MONTH OF OCTOBER, 1933.

Highest Pressure—30·121″ at 8.30 a.m. on 1st.
Lowest Pressure—29·762″ at 3.30 p.m. on 20th.
Highest Temperature in Shade—87° on 20th.
Lowest Temperature in Shade—64° on 7th.
Mean Daily Range—10·3°.
Greatest Range—18° on 7th.
Least Range—4° on 19th and 24th.
Mean Temperature for Month—76·2°.
Greatest Humidity—98 per cent. at 8.30 a.m. on 11th.
Least Humidity—54 per cent. at 3.30 p.m. on 3rd.
No. of Days of—Rain, 23; Hail, 0; Thunderstorms, 1; Fog, 0; Gales (force 8 or more), 0.

RAINFALL:—Total, 14·52″; average, 8·32″ for 49 years; difference from normal +6·20″; greatest fall in 24 hours, 5·46″ on 18th.

VISIBILITY SUMMARY—NO. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8.30 a.m.	0	0	0	0	0	0	1	1	0	3	1	9	13	3
3.30 p.m.	0	0	0	0	0	0	1	0	1	4	2	7	13	3

Standard Distance of Objects used for Estimate of Visibility:—X—Nil, A—27 yards, B—55 yards, C—110 yards, D—220 yards, E—550 yards, F—1,110 yards, G—1¼ mile, H—2½ miles, I—4½ miles, J—6¼ miles, K—12½ miles, L—18¾ miles, M—31 miles.

AMOUNT OF CLOUD.

Hour.	Number of cases of total cloud amount of.				
	0	1/3	4/6	7/9	10
8.30 a.m.	0	3	4	15	9
3.30 p.m.	0	2	7	15	7

OCTOBER.

Wind Direction and Force (Beaufort Scale). I		II		Weather (Beaufort Letters). At time of Observation I.	During day 1 to 2.	At time of Observation II.	During night II to 1.	Cloud. Amount (0–10) I	II	Form. I	II	Direction whence coming. I	II	Amount of Rain. 7 hours during day measured at 15h. 30m.	17 hours measured next morning at 8h. 30m.	Sunshine. Hours and tenths.	Visibility I	II	State of Ground. I	II	Day.
(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	
														in.	in.						
E.S.E.	3	E.S.E.	5/6	b	b,cp	c	b,cp,o	3	7	cu	cu/nb	E.	E.S.E.	0·02	0·05	4·8	L	L	0	0	1
E.S.E.	4/5	E.XS.	4	o	o,bc,cp	cy	b,c,oqd	9	8	cu/nb	cu/cu-nb	E.S.E.	E.S.E.	0·01	0·03	6·3	L	L	0	0	2
E.XS.	4	E.S.E.	4	oq	c,bc	cy	c,b,or	9	8	a-st/cu	cu/nb	E.S.E.	E.	..	0·11	4·7	L	K	0	0	3
E.	4/5	E.XS.	4	ojr	o,c	c	op,q	9	8	nb	cu/cu-nb	E.	E.	Trace	0·22	1·4	K	K	5	0	4
E.XN.	4	N.E.	3	o	orq	oq	oirqg	10	10	a-st/nb	nb/st	E.	E.	0·17	0·13	0·0	K	I	1	1	5
E.	4	E.XS.	4/5	og	oirg,q	oirg	oirgtlR	10	10	nb/st	nb/st	E.	E.	0·29	0·72	0·2	K	H	1	1	6
Calm	0	E.XN.	4	o	o,c,b	b	c,bc,o	9	2	cu/nb	cu	E.	E.N.E.	Trace	..	9·0	L	L	1	0	7
N.E.	3	E.N.E.	3/4	o	c,opq	oq	oqp,c	9	9	cu/nb	ci-st/cu/nb	N.E.	SW/NE	0·07	0·10	5·2	K	L	0	1	8
N.E.	3	N.N.E.	3	o	op,c	o	o,c,bc	9	9	a-st/nb	a-st/nb	N.E.	N.N.E.	0·12	Trace	1·1	K	L	1	1	9
N.N.E.	3	N.E.	4	c	c,bc	c	bc,c,oR	7	7	ci/cu/cu-n	ci/ci-st/cu	SW/NE	SW/NE	..	0·63	9·8	K	K	1	0	10
E.N.E.	2	E.	4	oR	cr,bcp,z	bcz	bc,cp	10	5	nb	ci/cu-nb	E.N.E.	SW/NE	0·27	0·02	3·8	F	J	2	1	11
E.XN.	4	E.	3	bc	bc	bc	bc,c	5	6	ci-cu/cu-nb	ci/cu/cu-n	E.N.E.	SW/NE	..	Trace	7·5	J	K	1	0	12
E.XS.	3	E.	4	c	c,bc	bc	bc,b	8	4	cu/cu-nb	cu/cu-nb	E.S.E.	E.N.E.	..	..	8·6	K	K	0	0	13
E.N.E.	3	E.	3	b	b,bc	bc	bc	3	5	cu	ci-cu/cu/cu-	E.N.E.	W/E	..	..	10·9	L	L	0	0	14
E.	2	E.	3	bc	b,bc	bc	bc,cd,b	5	5	ci-cu/cu	ci/cu	E.	E.	..	0·02	11·1	L	L	0	0	15
E.	3	E.XS.	3	b	b,c	b	bc,cp	3	3	cu	cu/cu-nb	E.N.E.	E.S.E.	..	0·06	5·4	L	L	0	0	16
E.	3	E.XS.	4	c	c,bc	bc	bc,c	8	5	cu/cu-nb	ci/ci-cu/cu	E.S.E.	NW/ESE	..	Trace	7·0	L	L	0	0	17
N.E.	3	E.	4	c	bc,o	o	or,RRrr	8	9	ci/cu/nb	a-cu/cu-nb	SW/NE	W/ENE	..	5·46	5·4	L	J	0	0	18
S.E'ly	1	E.S.E.	3	orr	orrdd	odd	odd,c,bc	10	10	nb/st	nb/st	S.E.	E.	0·59	0·01	0·0	G	I	2	2	19
N.XW.	3	S.W.	2	bc	c,o	o	or,g	4	9	ci/ci-cu	a-st	N.W.	W.	..	0·27	5·7	M	K	2	1	20
N.W.	2	S.EXE.	3	og	ogr,v	ogv	ogv,rrd	10	9	a-st/nb	a-s/cu-n/n	W.N.W.	E.S.E.	0·02	0·89	1·6	K	M	2	1	21
Calm	0	E.	3	ov	cv,o	o	orRq	10	9	a-st/st	a-st	E.	E.N.E.	..	1·20	3·3	M	M	2	2	22
W.N.W.	2	S.S.E'ly	2	o	c,ov	ov	orRd	9	10	ci-s/a-s/cu-n	nb/st	W.	S.S.E.	Trace	1·27	3·7	M	I	2	2	23
S.E.	3	S.E.	2	od	od	o	or	10	10	nb/st	a-st	S.S.E.	S.E.	0·08	0·52	0·0	I	M	2	2	24
E.S.E.	4	E.S.E.	4	o	odd	odd	odd,r	10	10	nb/st	st	E.S.E.	E.S.E.	0·34	0·29	0·0	I	F	2	2	25
E.	3	E.	3	o	od,g	og	og,dr	9	10	nb	nb	E.N.E.	E.	0·02	0·42	0·2	I	J	2	2	26
E.	4	E.XS.	4	o	o,c	c	c	9	7	cu/nb	ci/a-cu/cu-n	E.	NW/SE	..	Trace	3·3	L	L	2	2	27
E.	3	E.S.E.	4	c	c,bc	bc	c,bw	8	4	cu/cu-nb	ci/ci-cu/cu	E.	SW/E	..	Trace	9·1	L	L	2	1	28
N.E.	1	E.XN.	3	bc	bc,c,o	o	o,bc,c	4	9	ci/cu	cu/cu-nb	N.E.	N.E.	..	..	9·5	K	L	1	0	29
N.	1	N'ly	1	o	c,o	o	c,b,op	10	9	a-st	ci-st/cu/nb	W.	N.N.W.	..	0·06	1·3	L	L	0	0	30
N.E'ly	2	E.XS.	3	c	cp	c	bc,cp	8	8	ci/a-cu/cu/n	ci/ci-cu/ci-s/	E.N.E.	W/E	0·01	0·03	3·4	L	K	5	0	31
...	..	...	..	...	...	...	...	245	234	...	...	...	...	2·01	12·51	143·3	..	..	..	..	Totals
...	..	...	..	...	...	...	...	7·9	7·5	...	...	...	...	..	..	4·6	..	..	..	..	Means

WIND SUMMARY.

	Force 8 or more.	4/7.	1/3.	Calms.	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
8.30 a.m.	0	8	21	2	2	1	5	2	12	3	2	0	0	0	0	0	0	1	1	0
3.30 p.m.	0	15	16	0	1	1	2	1	17	5	2	1	0	0	1	0	0	0	0	0
	0	23	37	2	3	2	7	3	29	8	4	1	0	0	1	0	0	1	1	0

Prevailing Direction, E.; 8.30 a.m., E.; 3.30 p.m., E.

KATA THERMOMETER OBSERVATIONS IN "SCREEN."

Time of Observation between 9h. and 9h. 30m. F. 464.

OCTOBER, 1933.

Date.	Cooling Power. Dry Kata.	Wet Kata.	Date.	Cooling Power. Dry Kata.	Wet Kata.
1	..	..	17	6·6	18·2
2	6·8	16·6	18	5·1	15·0
3	7·2	18·2	19	4·7	11·3
4	8·6	25·1	20	3·5	12·2
5	10·0	23·8	21	5·5	12·5
6	7·2	16·6	22	..	..
7	6·4	15·7	23	5·4	15·2
8	..	..	24	8·8	17·8
9	7·6	17·8	25	7·6	16·7
10	5·4	15·7	26	6·8	15·1
11	5·8	14·5	27	6·4	13·6
12	6·0	16·6	28	5·4	15·0
13	4·4	12·4	29	..	..
14	4·9	15·0	30	3·5	11·9
15	..	..	31	5·0	15·0
16	..	..			
Totals	..	..	..	154·6	397·5
Means	..	..	..	6·2	15·9

WEATHER DIARY—OCTOBER, 1933.

Date.

1. Wind gradually fell to force 3 after 0014. Early morning fine and clear; wind increased after 0600. Passing shower at 1149. Wind increased force 4/6, 1212, with occasional gusts force 7, gradually falling off to force 3 after 1925. Clear night.
2. Passing showers 0342 to 0400 and 0700 to 0714. Wind backed E.N.E. 0338 falling off to calm. Gentle E.S.E breeze 0420, increasing force 4/5. Cloudy to overcast in early morning, clearing 0930, covering again 1330. Light shower at 1512. Clear night.
3. Squally winds after 0210 between N.N.E. and S.E. Overcast, drizzle 0425 to 0440 and 0700 to 0718. Gentle to fresh E. breeze after 0800 gradually veering E.S.E. and sky began to clear, covering again 1500, clearing 1900. Overcast, rain 2242 to 2300.
4. Wind fell after 0048 backing N.N.E. increasing force 3/5 from Easterly 0122. Light to gentle N. Easterly breeze after 0450, increasing force 3/5 from E. 0630. Rain 0558 to 0601. Frequent gusts of wind force 6 during the day. Passing showers 1652 to 1930 then wind backed E.N.E. gradually falling off to force 3.
5. Overcast in early morning and squally winds up to force 5 from S.E. by E. to N.E. by N. Passing showers 0148 to 0420. Gentle to fresh E. by N. breeze 0635, backing N.N.E. squally force 2/4 after 1440. Intermittent rain all day from 0950. Calm 1712. Moderate fresh E. breeze 1758, squally after 2200.
6. Squally Easterly wind to 0400, then moderate E. breeze, light intermittent rain and gloomy. Moderate to fresh breeze after 0910, occasional gusts force 6, rapidly falling off 1708 backing Northerly. Heavy intermittent rain 1715 to 1940. Thunderstorm 1600 to 1930. Wind increased force 4 from N. Easterly 1900, rapidly falling off 1946 to Northerly airs. Sky cleared 2030.
7. Northerly airs to calm in early morning and half cloudy, gradually covering 0730. Light Easterly breeze 0845, gradually increasing force 4 and sky clearing, falling off and backing N.E. after 1720. Low scud during late afternoon. Clear night.
8. Early morning fine, cloudy and N.E. airs to calm. Gentle N. Easterly breeze 0730, increasing force 4 veering E. backing N. Easterly squally, 1155. E.N.E. breeze after 1518, falling off to force 3, 2300. Cloudy to overcast all day. Passing showers 1210 to 1542 and at 2222.
9. Passing showers 0450 to 0642. Gentle E.N.E. wind, backed N.E. 0630 force 3/4, falling off force 1/2 1600, veering E.N.E. Passing showers 1136 to 1220. Cloudy to overcast all day and night.
10. Early morning fine half cloudy and E.N.E. winds force 1/2, backing N.N.E. after 0325 increasing force 3 and later to force 4 from N.E., gradually falling off to force 2 after 1700. Half to 3/4 cloudy all day and night.
11. Variable N.E. airs to calm in early morning and cloudy. Overcast heavy rain 0752 to 0842 and gusty E.N.E. wind force 1/3. Rain 1030 to 1105, then gentle to moderate E. breeze. Passing showers 1252 to 1434 slight haze during afternoon. Wind backed E.N.E. after 1700 falling off. Gentle E. by N. breeze 2356.
12. Passing shower at 0400, thence half cloudy. Wind gradually increased force 4, gradually falling off after 1500, backing N.E. 1550. Cloudy night.
13. Early morning cloudy and N.E. airs gradually increasing force 3/4 veering Easterly then half cloudy. Wind gradually fell to force 2/3 after 1700.
14. N.E. airs to calm 0440 and quarter cloudy. Wind gradually increased force 3/4 after 0700 veering E. Half cloudy afternoon and night.
15. Wind backed N.E. 0120 falling off. Early morning half cloudy. Gentle E. breeze 0655, gradually falling off after 1700, backing E.N.E. 2100 and to N.E. 2205. Half to quarter cloudy all day and night.
16. Northerly airs to calm 0154. Cloudy and thin drizzle 0412 to 0420 and 0618 to 0623, then sky cleared. Gentle to moderate Easterly breeze 0625 gradually falling off after 1400 veering E.S.E. 1600, backing N. Easterly 1735. Cloudy generally after 1230, but clear sky at times for short periods. Passing showers 1935 to 2050.
17. Early morning fine cloudy and light variable N.E. winds. Gentle to moderate E. breeze 0700 gradually falling off after 1610 backing N.E. variable 1848. Half cloudy after 0900.
18. Early morning fine cloudy and N.E. airs increasing force 3, 0730, veering E. force 4, 1250 and half cloudy. Overcast 1515. Gentle breeze 1755 backing E.N.E. and to N.E. force 1/2 variable 2345. Light rain 2055 to 2108, moderate rain 2212 increasing to heavy rain 2348.
19. Heavy rain to 0035. Very heavy steady rain 0210 to 0348 and squall force 4 from North-Westerly rapidly falling off and backing S.S.W., increasing force 3 from S.S.E. 0422 and continuous light rain. Wind fell to variable airs 0820, increasing force 3 from S.S.E. 1240 then drizzle to 1600. N.E. airs to calm 1600, cloudy night.
20. Northerly airs 0025 gradually increasing force 3 and half cloudy. Calm 1052. Light S.S.E. breeze 1138 increasing and gradually veering S.S.W. falling off to N.W. to Northerly airs 1740. Sky a deep blue in morning. Rain 1755 to 1900.
21. Early morning overcast and variable S.W. airs to calm. Rain 0700 to 0820 and winds increased force 2 backing Westerly force 1, 0850, increasing force 3 from S Westerly 0943, falling off to force 2 1110, veering E after 1350. Rain 1025 to 1030, thence unusual visibility; gloomy all day. Wind veered S.E. 1525, thence backing N. Easterly falling off 1800. Rain 1655 to 1900. Northerly airs 2148.
22. Wind increased force 2/3, 0218, backing round compass to N. again 0400, veering S.E. 0416, gradually falling off to variable E. airs to ealm. Rain 0256 to 0425, thin drizzle 0620 to 0640. Wind gradually increased force 2/3 from E.N.E. variable, falling off 1800 backing Northerly. Unusual visibility in morning. cloudy to overcast all day and night.
23. Variable winds force 1/2 0030 mainly N.W. Moderate to heavy rain 0345 to 0457 and 0603 to 0720. Squall force 4 from N.W. 0630 rapidly backing S. falling off then veering Westerly, backing S. force 2/3, 0956 Unusual visibility during morning. Rain 1528 to 1605. Northerly airs 1727. Variable winds force 1/2 after 2320. Moderate to heavy rain 2245.
24. Moderate to heavy rain to 0140, thence occasional thin drizzle to 1000. Light S. breeze 0400, increasing force 4, 0430, thence backing S.E. force 3 falling to force 2, 1400. Light rain 2300.
25. Light rain to 0120 and 0455 to 0700. Variable Northerly airs 0120. Moderate E.S.E. breeze 0625. Continuous drizzle 1020 to 1820 then gentle E. breeze backing N. Easterly force 1/2, 2200. Occasional drizzle and rain.
26. Occasional drizzle and rain to 0740. Wind gradually increased veering Easterly, backing N.E. variable force 2/3 after 1800. Drizzle 1012 to 1020. Gloomy afternoon, Occasional drizzle and rain 1910.
27. Occasional drizzle and rain to 0620. Wind gradually increased force 4 from E. gradually falling off after 1600. Three-quarter cloudy after 0900. N.E. airs 2020.
28. Early morning cloudy. Northerly air 0025. Gentle E. breeze 0620 increasing force 4 and sky clearing 0930, falling off 1600 backing N.E. Northerly airs 2230. Cloudy evening, clearing about 2100.
29. Calm 0045. Heavy dew in early morning. N.E. airs 0740 and half cloudy. Wine veered E.S.E. 0948 increasing force 4 and sky gradually covered with typical roll cumulus clouds. Wind backed to N.W. after 1520 falling off to Northerly airs 1702. Cloudy night.
30. Early morning fine cloudy and Northerly airs to calm. Wind increased force 2 0835, backing S.W. variable force 1 after 1250, veering Northerly 1516 and to E.N.E. force 2 1600. N.E. airs 2000. Cloudy to overcast all day, sky cleared about 2145.
31. Early morning cloudy and N.E. airs to calm. Passing showers 0602 to 0630. Wind increased force 2 variable 0720 and to force 3 from E. 0926 backing and veering occasionally until 1200 then increasing force 4 gradually falling off 1340 backing N.N.E. after 1935. Light passing showers 0910 to 0920. Half cloudy night.

ADDITIONAL NOTES.

A wet month, rainfall being 6·20 inches above normal. Commencing with a heavy fall of 5·46 inches on 18th, a very wet spell occurred lasting until 26th. Heavy steady rain to the extent of 3·39 inches fell between 0210 and 0348 on 19th.

Although the maximum thermometer registered 82° at 0830 on 20th, temperature did not rise above 76° on 19th, the rise took place after sunrise on 20th. 76° is therefore entered as the maximum temperature for 19th.

METEOROLOGICAL OBSERVATIONS TAKEN AT SUVA, FIJI,

DURING

NOVEMBER, 1933.

NOVEMBER.

Day.	Air Pressure at Mean Sea Level in the Units of Measurement.		Temperature (degrees F.)										Humidity.					
			In Screen.						In Open.		In Ground.							
			Dry.	Wet.	Dry.	Wet.	Max.	Min.	Grass Min. Eve. to Morn.	Max. in Sun. Black Bulb in Vacuo.	I		Dew Point.		Vapour Pressure.		Percentage.	
	I	II	I.		II.						1 foot.	4 feet.	I	II	I	II	I	II
	2030	530	Tenths.				Whole Degrees.											
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	in.	in.	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.		
1	29·941	29·840	81·4	76·0	83·0	75·2	88	74	72	154	79·2	78·4	73	71	27·7	26·1	77	68
2	29·890	29·840	82·0	75·6	79·4	74·0	88	74	72	151	80·0	78·9	73	71	27·3	25·7	74	77
3	29·890	29·798	82·6	76·0	84·4	76·5	90	73	70	155	79·6	79·0	74	72	28·3	27·1	73	68
4	29·894	29·827	80·8	76·4	80·8	74·4	83	74	71	134	80·5	79·2	75	71	27·7	26·3	81	73
5	29·879	29·829	79·8	75·8	80·0	76·5	86	72	70	160	80·2	79·3	74	75	28·9	29·6	83	84
6	29·904	29·841	81·6	76·0	80·1	77·1	86	74	71	154	80·5	79·5	74	76	28·7	30·3	77	87
7	29·966	29·880	75·0	74·8	80·4	75·0	83	73	72	161	78·4	79·6	75	72	29·7	26·7	99	77
8	29·926	29·867	80·8	76·4	76·0	74·1	82	74	73	129	78·9	79·8	75	73	29·2	27·8	81	91
9	29·874	29·791	80·0	74·2	82·9	74·1	84	71	68	145	78·8	80·0	71	70	26·0	24·7	75	64
10	29·824	29·759	79·6	73·6	82·0	75·0	85	70	69	149	79·7	80·0	71	72	26·0	26·5	74	71
11	29·848	29·790	80·2	73·4	82·4	74·4	84	71	69	149	80·3	80·0	69	70	24·6	25·1	71	67
12	29·908	29·843	80·3	73·1	84·0	79·4	85	72	70	145	80·0	80·1	69	78	24·6	32·4	70	81
13	29·916	29·837	80·2	73·4	72·0	73·6	84	70	68	147	80·7	80·4	69	69	24·6	24·4	71	66
14	29·899	29·807	80·0	71·0	81·2	71·8	85	69	67	149	81·0	80·5	66	66	21·9	22·1	63	62
15	29·913	29·836	81·2	74·0	84·5	73·9	86	74	72	156	81·7	80·7	71	69	25·6	24·5	70	59
16	29·907	29·826	81·4	75·4	84·2	75·6	89	75	72	156	82·0	80·5	72	72	27·0	26·4	75	66
17	29·895	29·838	82·4	77·4	76·9	72·1	90	76	73	154	82·6	80·8	75	69	29·5	24·6	79	78
18	29·884	29·823	78·4	74·0	71·4	70·8	84	73	71	154	81·8	80·7	71	70	26·2	25·3	80	97
19	29·889	29·818	70·8	70·0	73·2	72·0	78	70	70	127	79·1	80·5	69	71	24·6	26·4	96	94
20	29·852	29·803	77·8	73·6	81·7	73·9	83	70	67	150	78·9	80·4	72	70	26·9	25·1	81	68
21	29·865	29·806	79·2	72·0	82·0	73·0	83	71	68	158	80·0	80·2	68	68	23·7	23·7	70	64
22	29·895	29·837	80·0	72·2	81·2	73·6	84	71	69	160	80·3	80·2	68	70	23·3	24·9	67	69
23	29·957	29·879	80·0	74·0	83·6	74·2	85	73	70	152	80·8	80·3	71	70	26·0	24·9	74	63
24	29·941	29·865	79·6	76·0	83·8	77·8	89	74	71	157	81·0	80·3	75	75	29·6	30·1	84	76
25	29·932	29·851	81·4	75·6	86·0	77·0	88	75	72	155	81·7	80·4	72	73	27·0	27·7	76	65
26	29·896	29·813	78·2	75·2	85·4	77·4	86	73	71	152	80·9	80·2	74	73	28·3	28·1	86	69
27	29·868	29·785	80·8	75·4	84·7	77·1	87	74	73	159	82·4	80·9	73	74	27·7	28·9	77	70
28	29·815	29·757	79·2	75·4	78·7	76·9	84	72	71	151	80·8	80·5	73	76	27·9	30·8	83	92
29	29·821	29·738	81·2	75·0	80·0	77·4	88	73	71	159	81·8	81·1	72	76	27·0	31·1	74	89
30	29·796	29·792	83·4	78·1	75·7	73·3	86	74	72	155	82·1	81·4	75	72	29·8	27·1	78	89
Totals	896·685	894·616	2399·3	2239·0	2431·6	2247·1	2563	2179	2115	4537	2415·7	2403·8	2159	2154	805·3	804·4	2319	2244
Means	29·889	29·821	80·0	74·6	81·1	74·9	85·4	72·6	70·5	151·2	80·5	80·1	72·0	71·8	26·8	26·8	77·3	74·8

METEOROLOGICAL SUMMARY FOR MONTH OF NOVEMBER, 1933.

Highest Pressure—29·966″ at 8.30 a.m. on 7th.
Lowest Pressure—29·738″ at 3.30 p.m. on 29th.
Highest Temperature in Shade—90° on 3rd and 17th.
Lowest Temperature in Shade—69° on 14th.
Mean Daily Range—12·8°.
Greatest Range—17° on 3rd.
Least Range—8° on 8th and 19th.
Mean Temperature for Month—79·0°.
Greatest Humidity—99 per cent. at 8·30 a.m. on 7th.
Least Humidity—59 per cent. at 3.30 p.m. on 15th.
No. of Days of—Rain, 23; Hail, 0; Thunderstorms, 9; Fog, 0; Gales (force 8 or more), 0.

RAINFALL:—Total, 14·76″; average, 9·98″ for 49 years; difference from normal + 4·78″; greatest fall in 24 hours, 3·42″ on 6th.

VISIBILITY SUMMARY—NO. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8.30 a.m.	0	0	0	0	1	0	0	0	0	0	1	3	11	14
3.30 p.m.	0	0	0	0	0	0	1	0	0	5	2	4	13	5

Standard Distance of Objects used for Estimate of Visibility:—X—Nil, A—27 yards, B—55 yards, C—110 yards, D—220 yards, E—550 yards, F—1,100 yards, G—1¼ mile, H—2½ miles, I—4⅓ miles, J—6¼ miles, K—12½ miles, L—18⅔ miles, M—31 miles.

AMOUNT OF CLOUD.

Hour.	Number of cases of total cloud amount of.				
	0	1/3	4/6	7/9	10
8.30 a.m.	0	4	9	15	2
3.30 p.m.	0	1	9	16	4

NOVEMBER.

Wind Direction and Force (Beaufort Scale). I		II		Weather (Beaufort Letters). At time of Observation I.	During day I to 2.	At time of Observation II.	During night II to 1.	Cloud. Amount (0-10) I	II	Form I	II	Direction whence coming. I	II	Amount of Rain. 7 hours during day measured at 15h. 30m.	17 hours measured next morning at 8h. 30m.	Sunshine. Hours and tenths.	Visibility. I	II	State of Ground. I	II	Day.
(19)	(20)	(21)	22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	
Dir.	Fc.	Dir.	Fc.											in.	in.						
N.N.E.	3	E.N.E.	3	c	cjp,bc	c	c,bctl	7	7	ci/cu/cu-nb	a-s/f-s/cu	N.E.	N.N.E.	..	..	7·1	L	L	0	0	1
N.N.E.	2	W.S.W.	3	c	cpqutl	outlq	outlqr,bc	8	9	ci-cu-l/cu	ci-s/cu-n/f-s	SW/NNE	N.N.E.	0·14	0·02	5·7	L	I	0	1	2
N.E.	2	E.N.E.	4	bc	bc,c	c	bc,cl,o	5	7	ci/cu	ci/a-s/cu	SW/NE	W/ENE	..	Trace	8·8	L	L	1	0	3
N.	1	E.	3	o	c,o	o	cl,bcv	9	9	ci/a-cu/cu/n	a-st/nb	W/NE	E.	..	..	0·8	L	L	0	0	4
S.W.	2	E.XS.	3	cv	cv,o	o	c,ol	7	9	ci/ci-s/cu/cu	cu/nb/st	NW/SE	E.	..	0·02	6·0	M	L	0	0	5
N.E.XE.	2	E.	3	c	cp,oq	oq	otlRRqrg	8	9	ci/ci-cu/a-cu	a-cu-l/cu/nb	NW/NE	E.	0·10	3·32	6·2	K	J	0	5	6
W.S.W.	2	N.E.XN.	4	oRR	oRRgqtl,r	cq	cq,or	10	7	nb/st	ci-s/s-cu/cu/	E.	—/NE	1·32	0·41	2·9	D	L	2	2	7
E.XN.	3	E.N.E.	3	c	cp,oq,d	od	od,c,bc	7	10	cu-nb	nb/st	E.	E.	0·29	0·09	1·9	J	I	2	2	8
E.	3	E.XS.	3	bc	c,b	b	b,w	6	2	ci/cu	cu	W/E	E.S.E.	..	Trace	10·9	K	K	2	1	9
E.S.E.	2	S.E'ly	2/3	b	b,bc	bc	b,cp,bc	3	6	fr-cu	fr-cu	S.E.	S.E.	..	0·10	12·1	M	L	5	0	10
N.E.	2	E.XS.	4	bc	cp,bc	bc	b,cr,bc	6	5	cu/cu-nb	fr-cu/cu	E.N.E.	S.E.	0·12	0·12	8·4	L	L	0	0	11
E.S.E.	2	E.S.E.	3	bc	b,bc	bc	cp,bc,b	4	5	cu/cu-nb	ci/cu/cu-nb	E.	E.	..	0·01	11·4	M	L	1	0	12
E.	2	E.S.E.	3	b	b,bc,cv	cv	c,bw,bcv	2	7	fr-cu/cu	a-s/s-cu/f-cu	E.	NW/SE	..	0·01	9·9	M	M	0	0	13
E.N.E.	2	E.XS.	3	bcv	bcv	cv	cv,p,bc	4	8	ci/fr-cu	ci-st/a-st	W/ESE	W.	..	0·01	9·2	M	M	5	0	14
N.E.	2	N.E.	4	bcv	bcv	bcy	c,op,q	4	6	ci/cu/cu-nb	ci/a-cu/f-cu	WSW/NE	WSW/NE	..	0·03	8·3	M	M	0	0	15
N.N.E.	2	E.N.E.	3	c	c,bc	c	cv,l,op	7	8	ci/ci-s/cu/cu	ci-cu-l/a-s/s-	W/NE	W.N.W.	..	0·01	7·9	L	L	0	0	16
Calm	0	E.XN.	4	cv	cv,otl	o	oKq,r,bcv	8	9	ci/ci-s/f-cu	nb	W.N.W.	E.	Trace	0·81	6·9	M	I	0	0	17
Calm	0	N.	3	bcv	cv,orrtl	orr	QKTLR,r	4	10	ci/ci-cu-l/cu	nb/st	W/E	N.N.E.	1·31	1·90	4·0	M	F	2	2	18
N.N.W.	3	N.N.E.	3	orrq	orr,v	or	or,b,c	10	9	nb/st	nb/st	W.N.W.	N.	0·35	0·16	0·5	K	I	2	2	19
S.	4	S.E.	4	c	c,bc	bc	bc,b,c	7	4	ci-s/f-cu/cu-	fr-cu/cu-n	S.S.E.	S.E.	..	Trace	11·4	M	L	2	1	20
E.S.E.	3	E.S.E.	4	bc	bc	bc	bc,cr	6	6	cu/cu-nb	ci-s/cu/cu-n	E.	E.	..	0·12	10·5	L	K	1	1	21
E.N.E.	2	E.	4	bc	bc	bc	bc,c,o	6	5	ci/cu/cu-nb	ci-s/cu/cu-n	SW/NE	NW/NE	..	Trace	9·8	L	K	1	0	22
N.E.	2	E.	3	o	c,od,bc	bc	bc,o,c	9	5	st-cu/cu-nb	ci/cu/cu-n	N.N.E.	S/N	0·01	Trace	5·0	L	M	0	0	23
Calm	0	E.XS.	2	c	bc,c	c	c,o,bc	7	7	st-cu	ci-s/cu/cu-n	N.E.	SW/NE	Trace	..	5·3	M	L	0	0	24
N.	1	E.S.E.	3	c	bc,c	c	c,oqr	7	7	ci/cu	ci-cu/cu/cu-	SW/NE	W/E	..	1·01	8·6	L	L	0	0	25
Calm	0	E.S.E.	2/3	c	c,bc	bc	bc,c,od	8	6	cu/cu-nb	ci/cu	E.N.E.	SW/SE	..	0·02	6·8	M	L	1	1	26
Calm	0	E.S.E.	3	o	bc,cu	cu	cu,oqRr,c	9	8	a-cu/s-cu/cu	ci/cu-nb	W/E	NW/SE	..	2·45	5·7	L	M	1	0	27
Calm	0	N.N.E.	2	b	bc,c,od	od	od,bc,bv	2	10	cu	nb/st	N.E.	N.N.E.	0·02	0·03	6·6	M	J	2	2	28
Calm	0	E.N.E.	2	bv	bv,bc,cpt	c	b,c	3	8	fr-cu/cu	a-s/f-cu/nb	N.N.E.	W/NE	0·14	Trace	6·8	M	K	1	2	29
N.E.XN.	3	Calm	0	c	cv,oqrtl	orlt	ortl,c	8	10	ci/cu/cu-nb	nb/st	S/NNE	N.	0·21	0·10	4·7	M	I	1	2	30
...	..	...	..	...	...	...	...	191	218	...	...	...	...	4·01	10·75	210·1	..	..	..	..	Totals
...	..	...	..	...	...	...	...	6·4	7·3	...	...	...	...	..	..	7·0	..	..	..	..	Means

WIND SUMMARY.

	Force 8 or more.	4/7.	1/3.	Calms.	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
8.30 a.m.	0	1	22	7	2	3	6	2	3	3	0	0	1	0	1	1	0	0	0	1
3.30 p.m.	0	8	21	1	1	2	2	5	10	6	2	0	0	0	0	1	0	0	0	0
	0	9	43	8	3	5	8	7	13	9	2	0	1	0	1	2	0	0	0	1

Prevailing Direction, E; 8.30 a.m., N.E.; 3.30 p.m., E.

KATA THERMOMETER OBSERVATIONS IN "SCREEN."

Time of Observation between 9h. and 9h. 30m. F. 464.

NOVEMBER, 1933.

Date.	Cooling Power. Dry Kata.	Wet Kata.	Date.	Cooling Power. Dry Kata.	Wet Kata.
1	3·9	12·2	16	3·6	12·5
2	3·7	12·9	17	3·2	13·9
3	3·6	12·4	18	4·6	12·1
4	4·6	14·1	19	..	..
5	..	..	20	4·4	11·6
6	3·7	14·1	21	4·9	13·6
7	6·7	14·3	22	4·7	13·7
8	6·4	12·9	23	4·3	13·3
9	6·1	17·2	24	3·1	8·9
10	3·7	12·4	25	3·2	14·5
11	5·0	17·8	26	..	..
12	..	..	27	3·2	12·9
13	3·9	11·9	28	4·7	12·9
14	5·0	15·0	29	3·8	15·0
15	4·9	15·0	30	4·5	12·2
Totals	..	..	..	113·4	349·3
Means	..	..	..	4·4	13·4

WEATHER DIARY—NOVEMBER, 1933.

Date.

1. Passing shower 0020 to 0025. Squall force 4 at 0100. Wind increased force 3 0740. Early morning cloudy, passing showers seen in distance during morning. Wind increased force 4/5 0940, gradually falling off after 1420 veering E.N.E., backing N.N.E. 1748. Greenish tinge in southern sky during afternoon. Half cloudy night, thunderstorm 1815 to 2010.
2. N.N.E. airs to calm in early morning and cloudy, gradually increasing force 2/3, 0430. Lunar halo observed 0055. Heavy passing showers 1150 to 1238 and squally. Gentle E.N.E. breeze 1300. About 1445 conditions became ugly and threatening. Rain was falling to W. and S.W. and appeared to be extending to S.E. but low clouds were moving from N.N.E Thunderstorm to W. 1510 to 1630, lightning continuing to about 2100. This storm moved to the S.E. Wind rapidly backed W.S.W. 1520 force 3/5 veering westerly rapidly falling off 1710 to Northerly airs to calm. Cloudy to overcast night, rain 2352 to 2355.
3. Half cloudy and calm in early morning. Light N. Easterly breeze 0735, gradually increasing force 4, veering E.N.E. 1330, backing N.E. 1552 falling off. Cloudy afternoon and night. Lightning 1850 to 2310.
4. Early morning fine, overcast and N.E. airs to calm, backing N. 0640, to S. Westerly 0908, to E.S.E. 1118 increasing to force 4, gradually backing to N.E. after 1500 falling off. Cloudy to overcast all day and night. Lightning 1900 to 2015.
5. Half cloudy, unusual visibility and Northerly airs to calm in early morning. Cloudy after 0815, overcast 1430. Light S.W. breeze 0800 gradually increasing backing S.E. 1140, falling off after 1500 backing N.E. Occasional drizzle 1640 to 1730. Cloudy to overcast night, lightning 1840 to 1915.
6. Wind increased force 3/4 0052 then very gradually falling off. N.E. airs 0655 increasing force 2. Early morning cloudy. Wind veered S.E. 0920, increasing force 4/5, 1002 then backing E.S.E. and to N.E. after 1300, veering E. force 3 1425, backing E.N.E. force 2, 1900. Passing showers 1354 to 1505. Greenish tinge in Eastern sky during afternoon. Overcast night, distant thunderstorm from 1920.
7. Light shower at 0055. Heavy rain 0135 to 0305 and squally Easterly winds. Sudden squall at 0147 from N.E. reaching 33 m.p.h. at 0149 then rapidly falling off backing Northerly veering E. N. Easterly force 1/2 0238. Thunderstorm to about 0400. Light rain from 0305. Very heavy rain 0752 to 0942 and squalls from Westerly, rapidly backing Easterly 0835. Thunderstorm 0915 to 0935, very gloomy in morning and poor visibility. Light occasional rain to 1408. Wind backed N.E. 1020 gradually increasing force 4/5 squally, falling off after 1510. Rain 1925 to 2020. Occasional gentle N.E. squall after 2000.
8. Occasional rain 0100 to 0200, N.N.E. airs to calm after 0145. N.E. airs 0455 increasing and veering E. Early morning fine, cloudy. Passing showers 0854 to 1520 thence thin drizzle to 1648. Thin occasional drizzle between showers. Squall from E. 1300 reaching 27 m.p.h. backing N.E. 1306, rapidly falling off 1312. Gentle E. breeze 1501 backing N.N.E. falling off.
9. N.E. airs 0445 gradually increasing veering E.S.E. Early morning fine half cloudy, cloudy 0900, then clearing wind backed E. after 1600 gradually falling off. Clear night, Zodiacal light 1935.
10. Northerly airs to calm 0100. Dew in early morning and clear sky. Light E.S.E. breeze 0800, becoming variable but mainly S.E., backing after 1800. Half cloudy afternoon, clear evening. Zodiacal light 1940. Heavy passing showers 2258 to 2312.
11. Early morning fine, half cloudy and Northerly airs. Light N. Easterly breeze 0720 veering Easterly increasing force 4, gradually falling off after 1700, backing N.E. 2120. Passing showers 0850 to 1115, thence half to quarter cloudy. Clear night, zodiacal light 1940.
12. Rain 0206 to 0216. Northerly airs 0300. N.E. airs 0720 increasing veering E.S.E. falling off to Northerly airs after 2200. Fine and half to quarter cloudy all day except for light showers between 1840 and 1850. Zodiacal light 1950 to 2150.
13. Northerly airs in early morning and quarter cloudy, increasing from E. 0800, veering E.S.E. falling off after 1600 to Northerly airs to calm. Cloudy afternoon clear night. Zodiacal light 1950.
14. Early morning fine, clear sky and heavy dew. Light E.N.E. breeze 0750, gradually increasing force 4, veering E.S.E. falling off after 1500 and backing E.N.E. and to N. Easterly 2130. Unusual visibility all day. Sky gradually covered with cirrus 1300 later becoming alto-stratus. Solar halo observed 1345 to 1510. Moderate break on reef all day.
15. Light Northerly breeze 0145 and light shower, wind falling off force 1, 0600, gradually increasing 0730 from N.E. and half cloudy falling off 1730 and sky covering. Unusual visibility in morning. Greenish tinge in N. Eastern sky during afternoon. Light showers 1948.
16. Early morning cloudy and N.N.E. airs. Gentle squalls at 0120 and 0320. Light passing showers 0320 and 0340. N.E. airs 0400 gradually increasing 0700 backing N.N.E. increasing force 4/5 1200 from E.N.E., falling to force 3 1500 backing N.N.E. 1645. E.N.E. airs after 2200. Unusual visibility 1745. Lightning 1925 to 2030. Light shower 2230.
17. N.E. airs in early morning backing N.N.W. falling off. Cloudy and unusual visibility. Solar halo observed 0842 to 1916. Light S.S.W. breeze 1020 backing S.E. 1148, veering S. 1340 increasing force 4 and sky becoming overcast. At 1340 clouds were coming from S., whilst a large nimbus cloud was advancing from E. Thunderstorms to E. 1455 to 1515. Wind suddenly backed E. by N. 1457 and trace of rain 1515, heavy rain falling to S.W. Wind fell 1538 backing N. and heavy rain to 1600, then squall from S.W force 4 rapidly backing and falling off, increasing force 2/3 from W.N.W. 1820 gradually backing S.S.W. veering Northerly 2352. Rain 1648 to 1656. Light to moderate rain 1850.
18. Moderate rain to 0120. Early morning fine, half cloudy and unusual visibility. Calm 0700. Light S. by W. breeze 1018 backing N.N.E. after 1230 increasing force 5, and sky covered, then falling off backing 1602 to N.W. then S.S.E. and Northerly. Moderate rain 1338 to 1610. Thunderstorm 1415 to 1440. Overcast night.
19. Line squall from W.N.W. 0258 reaching 34 m.p.h. 0308, then suddenly backed S.S.W. falling off. Calm 0408. Variable squally winds force 1/3 after 0440. Severe thunderstorm 0250 to 0330. Heavy rain 0300 to 0405 thence light to moderate rain to 1022 then gentle N.N.E. breeze and unusual visibility. Wind backed N. 1420 and rain to 1600. Light airs after 1742, sky clearing 1810, covering again later.
20. Early morning fine, cloudy. Light W. by N. breeze 0356 backings force 4 0625, gradually backing S.E. after 1000. Half cloudy afternoon, clear night.
21. Wind fell backing Northerly 0300. Light E.S.E. breeze 0458 increasing force 3/4. Three-quarter cloudy in early morning. Light E. breeze after 1710. Half cloudy all day. Wind backed N. Easterly 2224 and rain to 2236.
22. Variable winds in early morning, mainly N.E., veering after 0730 to E. force 4. Half cloudy all day, wind falling off 1600 backing N.N.E.
23. Variable airs in early morning and overcast. Light to gentle N.E. breeze 0725 veering E. Drizzle 1135 to 1142 and wind backed N.W. falling off. Gentle E. breeze 1203 backing N.E. after 1600 falling off. Half cloudy afternoon, overcast night.
24. Early morning cloudy and light Northerly winds to calm, veering S.E. after 0952 increasing force 4, falling off after 1400. N.N.E. airs 1940. Trace of rain 1529. Cloudy to overcast night.
25. Early morning fine, half cloudy and N. airs, increasing and veering N.E. and to E.S.E. force 4 1022 falling off after 1400. Calm 1910. N.N.E. airs 2100. Half to three-quarter cloudy all day and night. Lunar halo observed 1955.
26. Gentle squall from E.N.E. 0422 and rain to 0518, thence occasional light rain to 0800. Wind backed N.N.W. falling off. S.W. airs 1018 increasing force 3 backing S.E. falling off after 1645 backing Northerly 2020. Half cloudy afternoon and night.
27. Northerly airs in early morning and occasional thin drizzle. Calm 0735. Light variable S.E. breeze 0900 increasing force 3 from E.S.E. and sky covering. Very ugly and threatening to N.W. 1500. Sudden squall from N.W. 1622 and heavy rain to 1710 thence occasional light rain to 1750, then three-quarter cloudy. Wind fell 1635 backing N. 1700 force 3 veering N.W. 1735, then falling off backing N.
28. Early morning fine, clear sky and Northerly airs. Calm 0718. Light S. by W. breeze 0925 increasing force 3 backing S.E. 1120, and sky covering, and to Northerly 1420 falling off backing Westerly force 2/3 1754, veering Northerly after 2100. Drizzle 1505 to 1550. Sky cleared 2130.
29. Early morning fine clear sky, Northerly airs to calm and unusual visibility. Light N. breeze 0848 gradually increasing force 4 veering E.N.E. 1310 falling off to force 2 backing N.N.E. after 1600. Passing showers 1030 to 1315. Thunder 1350 to 1405. Sky cleared 1800.
30. Early morning fine, clear, cloudy and Northerly airs to calm. Light to gentle N. Easterly breeze 0725 increasing force 3/4 falling off 1300. Unusual visibility 1000 to 1200. Squall force 5 from N.E. 1402 rapidly falling off 1412 backing N. Light to gentle squalls between N. and W. after 1542. Rain 1045 to 1110 and 1345 to 1700. Thunderstorm 1350 to 1610. Northerly airs after 1840. Light N.N.E. breeze 2040 veering E.N.E. falling off.

ADDITIONAL NOTES.

2·17 inches of rain fell between 1622 and 1710 on 27th.

METEOROLOGICAL OBSERVATIONS TAKEN AT SUVA, FIJI,

DURING

DECEMBER, 1933.

DECEMBER.

Day.	Air Pressure at Mean Sea Levels in the Units of Measurement.		Temperature (degrees) F.)										Humidity.					
			In Screen.						In Open		In Ground.							
			Dry.	Wet.	Dry.	Wet.	Max.	Min.	Grass Min. Eve. to Morn.	Max. in Sun. Black Bulb in Vacuo.	I		Dew Point.		Vapour Pressure.		Percentage.	
	I	II	I.		II.						1 foot.	4 foot.	I	II	I	II	I	II
			Tenths.				Whole Degrees.				Tenths.							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	in.	in.		°	°	°	°	°	°	°	°	°	°	°	mb.	mb.		
1	29·864	29·826	82·0	77·0	85·0	77·0	88	74	71	158	81·7	82·0	75	73	29·5	28·1	79	68
2	29·845	29·745	83·2	76·8	86·0	79·0	88	75	72	155	82·2	82·0	74	76	28·3	30·7	74	72
3	29·807	29·739	83·4	77·2	83·2	76·6	88	76	74	157	83·0	82·1	74	74	29·0	28·3	75	73
4	29·847	29·800	80·8	77·2	83·1	77·3	87	75	74	153	83·2	82·0	76	74	30·7	29·0	84	76
5	29·859	29·804	81·2	77·4	85·0	78·2	87	73	72	146	83·2	82·1	75	75	29·9	29·6	84	73
6	29·823	29·761	80·8	76·6	83·9	77·9	86	73	70	151	84·3	82·6	75	75	29·9	30·1	82	76
7	29·812	29·749	79·6	76·8	81·8	77·0	84	75	74	157	84·2	83·1	76	75	30·3	29·5	88	80
8	29·798	29·764	79·1	76·9	75·2	74·2	84	75	74	154	83·6	83·6	76	74	30·8	28·2	90	95
9	29·793	29·729	81·4	76·0	82·0	77·5	85	75	73	158	82·2	83·2	73	76	27·7	30·2	77	81
10	29·750	29·724	79·0	76·0	78·0	75·2	83	74	72	152	82·0	83·0	75	74	29·3	28·3	86	87
11	29·807	29·763	77·4	74·0	83·0	74·8	84	74	69	156	82·2	83·0	72	71	26·6	26·1	85	67
12	29·854	29·801	79·6	73·2	83·1	73·1	84	73	71	146	82·0	82·6	70	68	25·3	23·3	73	61
13	29·847	29·772	80·8	74·8	80·6	74·8	84	74	73	146	81·8	82·0	72	72	27·0	27·0	74	75
14	29·811	29·739	82·2	76·4	82·8	77·0	85	75	73	153	81·7	82·0	73	74	28·0	29·0	76	76
15	29·797	29·760	82·0	77·5	77·4	76·0	83	77	76	131	82·1	82·0	76	75	30·2	29·5	81	94
16	29·852	29·787	76·9	74·1	80·4	78·0	83	72	71	134	77·8	81·7	73	76	27·3	31·1	87	89
17	29·835	29·751	77·2	76·0	78·6	75·8	82	75	74	137	79·2	81·3	76	75	30·2	29·3	94	87
18	29·817	29·768	81·6	76·0	81·4	75·8	83	74	73	148	80·1	80·3	74	73	28·7	27·7	77	77
19	29·827	29·797	83·0	76·1	84·8	76·8	87	77	75	156	80·9	81·1	73	73	27·5	28·1	72	68
20	29·890	29·822	80·0	75·8	85·0	78·0	87	73	71	158	81·3	81·2	74	75	28·9	29·6	82	72
21	29·929	29·871	83·9	77·1	85·9	78·1	87	75	73	152	82·0	81·3	74	75	28·6	29·2	73	70
22	29·918	29·865	83·7	75·9	85·8	76·0	87	77	74	152	82·0	81·7	72	71	27·1	26·2	69	62
23	29·881	29·813	79·0	76·4	76·0	75·2	83	73	71	143	81·1	81·6	75	75	30·1	29·2	88	96
24	29·891	29·835	80·2	76·2	84·0	78·3	86	75	73	149	81·0	81·3	74	76	28·9	30·9	83	76
25	29·930	29·861	83·2	76·4	85·6	78·0	88	76	74	152	81·4	81·3	73	75	27·5	30·0	73	70
26	29·947	29·899	83·2	75·8	85·0	74·2	86	74	72	156	82·2	81·2	72	69	26·8	23·8	70	58
27	27·907	29·827	82·0	75·0	85·6	76·8	87	73	70	151	82·4	81·2	72	73	26·5	27·7	71	66
28	29·889	29·775	80·8	77·0	85·5	77·9	89	75	73	152	82·9	81·2	75	75	29·9	30·0	83	70
29	29·833	29·786	81·0	77·0	82·9	77·5	86	76	73	155	83·8	81·5	75	75	29·9	29·8	83	77
30	29·866	29·803	80·8	76·0	87·0	75·0	90	74	70	149	84·1	82·7	74	69	28·4	24·3	79	56
31	29·874	29·758	82·2	77·6	87·2	78·2	92	75	73	163	84·7	83·0	76	74	30·2	28·8	81	66
Totals	925·406	923·492	2511·2	2362·2	2570·8	2375·2	2663	2312	2248	4680	2546·3	2540·9	2294	2285	889·0	882·6	2473	2314
Means	29·852	29·790	81·0	76·2	82·9	76·6	85·9	74·6	72·5	151·0	82·1	82·0	74·0	73·7	28·7	28·5	79·8	74·6

METEOROLOGICAL SUMMARY FOR MONTH OF DECEMBER, 1933.

Highest Pressure—29·947″ at 8.30 a.m. on 26th.
Lowest Pressure—29·724″ at 3.30 p.m. on 10th.
Highest Temperature in Shade—92° on 31st.
Lowest Temperature in Shade—72° on 16th.
Mean Daily Range—11·3°.
Greatest Range—17° on 31st.
Least Range—6° on 15th.
Mean Temperature for Month—80·2°.
Greatest Humidity—96 per cent. at 3.30 p.m. on 23rd.
Least Humidity—56 per cent. at 3.30 p.m. on 30th.
No. of Days of—Rain, 25; Hail, 0; Thunderstorms, 5; Fog, 0; Gales (force 8 or more), 0.

RAINFALL:—Total, 18·95″; average, 12·73″ for 49 years; difference from normal +6·22″; greatest fall in 24 hours, 7·64″ on 15th.

VISIBILITY SUMMARY—NO. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8.30 a.m.	0	0	0	0	0	0	0	1	1	2	3	12	9	3
3.30 p.m.	0	0	0	0	0	0	1	1	0	5	2	12	6	4

Standard Distance of Objects used for Estimate of Visibility:—X—Nil, A—27 yards, B—55 yards, C—110 yards, D—220 yards, E—550 yards, F—1,110 yards, G—1¼ mile, H—2½ miles, I—4⅓ miles, J—6¼ miles, K—12½ miles, L—18⅔ miles, M—31 miles.

AMOUNT OF CLOUD.

Hour.	Number of cases of total cloud amount of.				
	0	1/3	4/6	7/9	10
8.30 a.m.	0	3	11	15	2
3.30 p.m.	0	1	10	15	5

DECEMBER.

Wind Direction and Force (Beaufort Scale). I		II		Weather (Beaufort Letters) At time of Observation I.	During day 1 to 2.	At time of Observation II.	During night II to I.	Cloud. Amount (10-10) I	II	Form. I	II	Direction whence coming. I	II	Amount of Rain. 7 hours during day measured at 1 h. 30m.	17 hours measured next morning at 8h. 30m.	Sunshine. Hours and tenths.	Visibility. I	II	State of Ground. I	II	Day
(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	
Dr.	Fc.	Dr.	Fc.											in.	in.						
N.E.XN.	3	E.XN.	2	c	c,o	o	o,bc	8	9	ci/c ist/cu	a-st	W/NNE	...	..	..	4·3	K	K	2	1	1
N.E.	3	E.	3	bc	bcz	bcz	cr,bc	6	6	ci/cu/cu-nb	ci/cu/cu-nb	SW/NE	SW/NE	Trace	0·08	10·4	L	I	1	0	2
E.	3	E.XS.	3	bc	bc,b	bc	bc,cr	6	6	ci/cu/cu-nb	ci/a-st/cu	W/E	NW/E	..	0·06	8·6	L	K	1	0	3
N.N.E.	1	E.XS.	2/3	c	bc,ctl	ctl	ortl,b	7	8	ci/cu-nb	ci/a-s/f-cu/c	NW/SE	NW/E	..	0·19	6·4	K	M	5	0	4
Calm	0	S.S.W.	3	bc	bc,c	c	c,bc	4	7	ci/cu/cu-nb	ci/cu/cu-nb	SW/SE	W/SSE	..	Trace	11·9	L	L	0	0	5
Calm	0	S.XW.	1	bc	bc,cv	cv	cv,oirtlq	4	7	ci-cu/cu/cu-	cu-nb/nb	W/E	S.	Trace	0·22	8·4	L	M	0	0	6
Calm	0	S.S.E.	2	c	cv	cv	cv,ordq	7	8	ci/cu-nb	cu/nb	W/S	S.E.	..	0·92	6·3	L	M	1	0	7
N.N.W.	2	E.S.E.	3	cq	cq,orrg	orrg	orrgq,bc	7	10	cu-nb	nb/st	E.	E.S.E.	1·61	0·48	1·4	I	G	2	2	8
S.E.XE.	4	S.E.XE.	4	bcj	bc,cp	bc	opqc	5	5	cu/cu-nb	cu/cu-nb	E.S.E.	E.	0·01	0·79	9·7	L	I	2	2	9
E.	3/4	E.	4	opq	opqc	opq	opqc	10	9	cu/nb	cu/cu-nb	E.	E.	0·20	0·05	2·7	G	L	2	2	10
E.	4	E.	5	cpq	cpq	cqz	cqz,b,op	8	7	cu-nb	ci/cu/nb	E.	E.	0·02	0·05	9·2	H	I	2	1	11
E.	4	E.XN.	4	o	c,o	o	opq	9	10	nb	a-st/fr-st	E.	E.N.E.	Trace	0·22	1·7	J	K	1	0	12
E.	4/5	E.	4/5	ogjp	cq,bc,op	cqjp	cq,bc,ct	9	7	cu-nb/nb	ci-cu/cu-nb	E.	W/E	0·09	0·03	2·3	I·	J	1	1	13
E.XN.	4/5	E.	4/5	cqjp	bcq,c	c	cp	7	8	ci/cu/nb	ci/cu/nb	W/E	WNW/E	..	0·05	5·5	J	J	1	0	14
E.	4	E.N.E.	3	cjp	c,oKrrq	orrq	oqrrRRd	8	10	ci-s/ci-cu/cu/	nb/st	E.	E.	2·32	5·32	2·1	J	F	0	2	15
N.N.E.	1	E.	3	o	od	od	od,r	10	10	a-st	nb	E.	E.	0·01	1·76	0·4	L	I	2	2	16
W.N.W.	1	N.XW.	2	ojr	or,vt	ov	ov,rdq,c	9	9	ci/cu-nb	cu/nb/st	NW/SE	NNW	0·19	0·62	0·1	K	M	2	2	17
N.N.E.	2	E.N.E.	3	cv	cv,or	ojr	or,c,bc	7	9	ci/cu/nb	cu/nb	NW/NNE	E.N.E.	0·02	0·03	3·2	M	K	2	2	18
E.	4/5	E.	4	bc	bc	bc	b.c,o	5	6	cu/cu-nb	a-cu/cu	E.N.E.	N/ENE	..	..	12·2	K	K	2	1	19
E.	2	N.E.XE.	4	o	bc,c	bc	bc,b,cpq	9	6	cu-nb	fr-cu/cu-nb	N.E.	N.E.	Trace	0·01	7·2	K	L	1	0	20
E.N.E.	4	E.	4/5	bc	bc,cp	bc	bc,b	4	5	cu/cu-nb	cu/cu-nb	E.N.E.	E.N.E.	0·12	..	11·3	K	K	0	1	21
E.N.E.	4	E.XN.	4/5	b	cq,bc	bc	cpq,oRr	2	4	cu	cu/cu-nb	E.N.E.	E.N.E.	..	1·43	11·1	K	K	0	0	22
N.E.	2	E.N.E.	3	c	c,oPpq	oPq	oPpq	8	10	cu-nb/nb	nb	E.N.E.	E.	0·48	0·78	2·8	K	I.	2	2	23
N.E.	4	E'ly	4	o	opcq,bc	bcq	bc,b	9	6	cu-nb/nb	cu-nb/nb	N.E.	N.E.	0·12	0·01	4·7	K	K	2	2	24
E.	4	E.XS.	4/5	bc	bc,b	b	b,bc	4	2	cu/cu-nb	cu	E.	E.	..	..	12·0	K	K	2	1	25
E.	3	E.	4	b	b,bc	bcq	bc,b	2	5	cu	ci-cu/cu	N.E.	W/E	..	Trace	9·9	K	L	0	0	26
N.E.	2	E.	4	b	b,bc	bc	bc,cp	3	4	cu	ci/cu	E.	SE/NE	..	0·08	12·5	K	K	0	0	27
E'ly	1	N.E'ly	3	bc	bcp,b,c	c	c,bbcw	5	7	cu/cu-nb	st-cu/cu/nb	N.N.E.	NW/NE	0·01	..	7·1	L	L	5	0	28
Calm	0	S.W.XS.	4	bcv	bcv,c,o	o	c,bcw,v	5	9	ci/fr-cu	st-nb	...	W.	..	..	9·0	M	K	0	0	29
Calm	0	S.E.	3	bcv	bcv,c,ot	oty	otl,d,c	6	9	ci-st	ci-cu/cu-nb	...	W/E	..	0·03	9·7	M	L	5	0	30
Calm	0	N.E.XE.	3	c	bc,c	c	oPqtl,bc	8	8	ci/ci-s/cu/cu-	ci/ci-st/cu-n	W/NE	SW/NW	..	0·54	8·0	L	K	0	0	31
...	..	...	..	...	...	...	...	201	226	...	...	...	...	5·20	13·75	212·1	..	..	..	..	Totals
...	..	...	..	...	...	...	...	6·5	7·3	...	...	...	...	..	..	6·8	..	..	..	..	Means

WIND SUMMARY.

	Force 8 or more.	4/7.	1/3.	Calms.	N.	N.N.E.	N.E.	E.N.E.	E.	E.S.E.	S.E.	S.S.E.	S.	S.S.W.	S.W.	W.S.W.	W.	W.N.W.	N.W.	N.N.W.
8.30 a.m.	0	12	13	6	0	3	5	2	12	0	1	0	0	0	0	0	0	1	0	1
3.30 p.m.	0	15	16	0	1	0	3	3	17	1	2	1	1	1	1	0	0	0	0	0
	0	27	29	6	1	3	8	5	29	1	3	1	1	1	1	0	0	1	0	1

Prevailing Direction, E.; 8.30 a.m., E.; 3.30 p.m., E.

KATA THERMOMETER OBSERVATIONS IN "SCREEN."

Time of Observations between 9h. and 9h. 30m. F. 464.

DECEMBER, 1933.

Date.	Cooling Power. Dry Kata.	Wet Kata.	Date.	Cooling Power. Dry Kata.	Wet Kata.
1	5·2	15·0	17	..	..
2	4·8	16·6	18	5·8	18·9
3	..	..	19	4·7	14·5
4	4·0	13·3	20	4·1	11·0
5	3·5	11·6	21	5·3	16·0
6	4·7	13·9	22	4·2	16·6
7	5·8	14·5	23	4·1	13·9
8	3·8	10·8	24	..	..
9	3·8	12·2	25	..	..
10	..	..	26	..	..
11	4·6	15·0	27	4·3	18·2
12	5·0	13·6	28	3·8	11·3
13	5·4	17·8	29	3·8	11·9
14	4·7	16·0	30	4·2	14·3
15	5·9	16·3	31	..	..
16	5·1	10·1			
Totals	..	..	..	110·6	343·3
Means	..	..	..	4·6	14·3

WEATHER DIARY—DECEMBER, 1933.

Date.

1. Early morning cloudy and calm. Light N.E. breeze 0654 increasing force 3/4, veering E. by N. 1300, falling off force 2/3, 1448. Calm 2320. Cloudy morning, overcast afternoon, half cloudy night. Solar halo observed 1525 to 1610. Lunar halo 2015 to 2330.
2. Early morning fine, half cloudy and calm. Light N.N.E. breeze 0630 increasing force 3 from N.E. 0720 veering E. by S. force 4, 1142, then very gradually falling off backing E.N.E. Hazy afternoon. Half cloudy all day and night. Solar halo observed occasionally between 1400 and 1630.
3. Northerly airs to calm in early morning. Rain 0015 to 0200, then half to quarter cloudy. Light E/N.E. breeze 0700, increasing force 3/4 veering E. by S. falling off 1500 to N.N.E. airs 1930. Cloudy afternoon, half cloudy night.
4. Northerly airs to calm in early morning and cloudy. Rain 0658 to 0713. Light E. breeze 0855, increasing force 3, falling off after 1500. Calm 1614. Light N. breeze 1715 backing W. then veering N. Distant thunderstorm 1500 to 1600. Light rain 1620 to 1840, then sky cleared.
5. Early morning fine, clear sky and Northerly airs to calm backing S.W. after 0808, increasing force 3 from S.S.W., falling off 1630, backing S.S.E. 1844 and to N.N.E. 2100. Cloudy afternoon, half cloudy night.
6. Early morning fine, half cloudy and light Northerly winds. Calm 0640. Light S. breeze 0900, veering N.N.W. 1822 and to N. 2046. Cloudy afternoon and unusual visibility, ugly and threatening to N.W. Light intermittent rain 1920 to 2012 and distant thunderstorm to 2130.
7. Squally winds force 1/3 0020 to 0400 first from W. then backing S.E. then veering Northerly airs to calm 0500. Intermittent rain 0058 to 0540. N.W. airs 0844 backing Southerly and to S.S.E. 1410, increasing force 4 2006 rapidly backing N. falling off. Cloudy all day, unusual visibility during afternoon. Rain 1610 to 1616, rain and drizzle 2006 to 2248.
8. Light variable squalls in early morning. Rain and drizzle 0002 to 0732. Gentle to moderate squally E. to E.S.E. breeze 0852 and cloudy. Rain 0958 to 1003. Gloomy and steady rain 1225 to 1610 thence light rain to 1750 and wind veered S.E.
9. Early morning fine, half cloudy. Steady E.S.E. breeze force 4 after 0040, veering and backing occasionally after 1250, frequent gusts force 5. Light shower at 1452. Cloudy to overcast and passing showers 1835. Squalls force 3/5 after 1950 backing E.
10. Variable squally winds after 0050, increasing force 3/5, 0350. Easterly breeze 0612, occasional gusts force 5/6 during morning. Passing showers to 1935. Gentle to fresh breeze after 1600, very gradually falling off.
11. Wind gradually backed E.N.E. falling off, increasing 0630 in squalls force 3/5. Passing showers 0826 to 0835 and at 1430. Wind increased force 5/6 1202, moderating 1600, falling off to force 3 2208. Sky cleared 1630. Hazy afternoon.
12. Passing showers 0000 to 0030. Northerly airs 0045. Easterly airs 0230 gradually increasing force 4/5. Cloudy to overcast all day. Passing showers 1725. Squally winds after 2020.
13. Passing showers and squally E. winds to 0040, then gentle breeze gradually increasing force 4/5, squally 0800, showers to W. Occasional gusts force 6 during morning. Passing showers 1156 to 1420 and wind backed N.E. veering E. 1252. Moderate breeze after 2020 gradually falling off backing Northerly.
14. Wind very gradually increased from N.E. 0400 veering E. squally force 4/5. Passing showers 0716 to 0722. Half to three-quarter cloudy all day, occasional gusts force 6. Moderate breeze after 1730 falling to force 3. Passing shower 2348 to 2400.
15. Wind backed N.E. after 0100 falling off, increasing force 4/5 from E. 0600. Light passing showers at 0222 and 0431. Continuous heavy, moderate and light rain from 1200. Wind gradually veered E.N.E. Squall 30 m.p.h. at 1351 for 4 minutes falling to force 3, then squally winds force 1/4 becoming variable 2030. Rain was exceptionally heavy 1348 to 1440 and 2300 to 2348, thence light rain.
16. Light rain to 0630 thence drizzle to 0710. Squally variable winds in early morning falling off to N.N.E airs 0700. Gentle E. to E.S.E. breeze 1020. Drizzle 1520 to 1700, light to moderate rain 1800. Wind increased force 4 1740.
17. Rain to 0508 thence drizzle to 0620. Wind fell 0010 backing Northerly. Light W.N.W. breeze 0642 falling off, calm 0900. Southerly airs 0935 backing E.S.E. force 3, 1158, backing Northerly 1300 falling off. Light W.N.W. breeze 1448 falling off backing N. N.E. wind force 1/2 after 1718. Squalls force 4 at 2234 and 2348. Rain 1342 to 1420, thence unusual visibility and distant thunder. Rain and drizzle 2238. Overcast all day and night.
18. N.N.E. winds force 1/2 in morning, rain and drizzle to 0440. Unusual visibility 0730 to 0930. Wind increased force 3 veering E. falling off 1018, backing W.S.W. force 3 1057 falling off 1102, increasing force 4/5 from E. 1117 backing E.N.E. force 3/4 1500, veering E. 1558. Cloudy to overcast all day and night. Light rain 1140 to 1145 and 1820 to 1835.
19. Wind backed E.N.E. force 3, 0340, increasing force 4/5 from E. after 0600 gradually falling off after 1400 backing N.E. 1820. Half cloudy all day, cloudless evening, covering later.
20. Northerly airs to calm in early morning and overcast. Easterly airs 0800, increasing force 3 0844, then gradually increasing to force 4. Half cloudy during the day. Heavy shower passed close to S. 1655. Clear sky during evening becoming cloudy later. Shower at 2210 and squall force 4 from N.N.E. falling off 2220.
21. Early morning fine, half cloudy and N.E. airs to calm, gradually increasing force 4/5 veering E. Passing showers1225 to 1242 and wind backed N.E. veering E. 1248 gradually falling off 1800 backing N.N.E.
22. Gentle E.N.E. breeze 0130 falling off 0600, gradually increasing after 0700 to force 4/5 from E. Cloudy and threatening 1248 and squall force 6 (30 m.p.h.) from N.E. and trace of rain, wind falling off to force 3 1308, increasing force 4/5 from E. 1325 and half cloudy. Sudden squall force 7 (34 m.p.h.) at 1618 and heavy passing shower for 4 minutes, then squally wind force 2/5 varying between N.N.E. and E.S.E. falling off 2200. Moderate to heavy rain 1817 to 2225.
23. Light to gentle N.E. breeze 0000. Passing showers 0425 to 0525 and moderate squalls, then light breeze veering E. 0900, increasing in squalls force 1/6 and varying between E.S.E. and N.N.E. Light to heavy passing showers 1000 to 2230. N.E. airs 1750 gradually increasing force 4 veering E.
24. Wind backed N.E. 0320 falling off, increasing force 4/5 0700 backing N.E. after 0800 falling off to force 2. Early morning overcast. Light passing showers 0935 to 1342. Sudden squall from N.E. by N. 1028 (28 m.p.h.) rapidly falling off, wind increasing force 4/5 from E. 1112, falling off 1710 backing N.E. Half cloudy afternoon, clear night.
25. Early morning fine, clear sky and calm. Gentle to moderate E. breeze 0445, frequent gusts force 5 during the day, falling off 1800 backing N.E. 2120. Half to quarter cloudy all day and night.
26. Early morning fine, clear sky and Northerly airs to calm Gentle E. breeze 0600 falling off 0640 backing N. increasing force 3/5 from E. 0755, gradually falling off after 1600 to force 2/3. Half to quarter cloudy all day and night. Lunar corona observed occasionally during evening.
27. N.E. airs to calm 0030 backing N. 0350. N.E. airs 0715 gradually increasing force 4 veering E., backing E.N.E. after 1600 falling off 1920. Shower at 1842. Half to quarter cloudy all day. Lunar corona 1940. Cloudy 2100.
28. Variable N.E. airs to calm in early morning and cloudy Light passing showers 0200 to 0215, 0535 to 0603 and 0920 to 0925. Wind increased force 3/4 from E. varying between E. by S. and N.N.E. after 1325, falling off 1600 backing N.N.E. Cloudy afternoon and night and threatening appearance to N.W.
29. Early morning fine, clear and Northerly airs, calm 0640, sky gradually clouded and unusual visibility. Light S.S.W. breeze 0940 increasing force 4, very gradually veering W. falling to force 3, 2000. Half cloudy night.
30. Early morning fine, half cloudy and dew on grass. N.N.W. airs 0242, calm 0700 and unusual visibility. S.S.W. airs 0910 increasing force 3 backing S.E. 1300 falling to force 2 1600 veering W.N.W. force 3/4 2330. Sky covered 1500 and distant thunder Thunderstorm 1800 to 2310.
31. Early morning fine cloudy, thin drizzle 0025 to 0105. Northerly airs to calm 0020. Light N.E. breeze 0842 backing N. 1025 veering Easterly 1120, backing N. Easterly 1240. Half cloudy after 0930. Moderate break on reef and gentle swell in harbour during the day. Wind veered S.S.W. 1700 squally force 3/5 rapidly backing N. falling off and thunderstorm and heavy passing showers to 1810. Lightning continued throughout the night. Rainbow to E. 1730. Lunar halo 2230 to 2310. Calm 1908. Gentle Westerly breeze 2000 falling off veering N.

ADDITIONAL NOTES.

A wet month and rather boisterous at times. Rainfall was 6·22″ above normal. The total rainfall for the year amounted to 151·40″ being 33·10″ in excess of normal.

SUMMARY OF METEOROLOGICAL OBSERVATIONS AT LEVUKA FOR THE YEAR 1933.

Months.	Mean Pressure Corrected to 32° Faht. 45° Lat. and M.S.L.	Air Temperature. F°.							Mean Humidity per centage.	Prevailing Wind Directions.
		Means of			Absolute Max. and Min.					
		Max.	Min.	Mean.	Max.	Date.	Min.	Date.		
	"	°	°	°	°		°			
January	29·754	83·9	76·6	80·2	87	11	74	1	93·7	S.E.
February	....	..	..	..	..	....	..	....	....	....
March	....	..	..	..	..	....	..	....	....	....
April	....	..	..	..	..	....	..	....	....	....
May	29·997	80·6	70·7	75·7	84	5, 27	71	15	81·5	S.
June	30·004	78·9	73·2	76·0	84	22	66	16	79·2	S.S.E.
July	30·024	74·6	66·0	70·3	81	22, 23, 24	63	11	74·0	S.E.
August	30·078	78·0	69·7	73·9	81	12	68	on 12 days	85·7	S.E.
September	30·052	78·5	71·0	74·7	82	11	65	2	81·6	S.E.
October	29·999	78·5	72·2	75·4	83	21, 22	67	2	86·8	S.E.
November	29·921	82·5	74·4	78·5	87	25	70	19, 20	83·8	S.E.
December	29·883	82·8	75·9	79·3	85	7, 28, 29, 30	72	15	83·1	S.E.
Year	29·968	79·8	72·2	76·0	..	....	..	....	83·3	S.E.

Note.—Observations are taken at 9 a.m. Standard Time by the Harbour Master, Levuka. The site is not considered as "conventional," as it is on the wharf reclamation and rather close to buildings. Position of Station—Latitude, 17° 41′ South; Longitude, 178° 49′ East.

Early in 1933 the Harbour Master took ill during which time rainfall observations only were taken.

SUMMARY OF METEOROLOGICAL OBSERVATIONS AT MAKOGAI LEPER STATION BY THE MEDICAL SUPERINTENDENT.

1933.

Months.	Mean Pressure in Inches Corrected to 32° Faht. 45° Latitude and Mean Sea Level.		Air Temperature (F°.). Mean Dry Bulb.		Mean Wet Bulb.		Means of Max.	Means of Min.	Mean.	Absolute Max. and Min. Max.	Date.	Min.	Date.	Mean Dew Point (Degrees).		Mean Vapour Pressure in Millibars.		Mean Percentage of Relative Humidity (Saturation =100).		Mean Amount of Cloud (0—10).	
	8.30	3.30	8.30	3.30	8.30	3.30								8·30	8·30	8·30	8·30	8·30	3·30	8·30	3·30
January	29·751	29·688	82·1	85·4	76·3	77·1	88·8	75·2	82·0	94	10	72	13	73·5	73·5	28·4	28·3	75·8	67·9	4·8	4·9
February	29·756	29·685	82·4	85·1	77·6	78·6	89·2	76·1	82·6	92	8, 12	73	1, 18	75·3	75·9	30·0	30·6	80·4	74·4	5·6	6·2
March	29·824	29·716	83·0	83·9	77·7	78·1	88·4	75·6	82·0	92	12	73	30	75·6	75·7	30·2	30·3	80·1	76·4	5·7	6·8
April	29·855	29·787	80·2	82·1	76·3	77·1	87·0	74·9	80·5	90	12, 13, 14	71	6	74·6	74·7	29·2	29·5	83·1	78·8	7·3	6·9
May	29·932	29·850	79·3	80·4	74·0	74·5	85·1	73·7	79·4	89	7	70	6	71·3	71·9	26·3	26·6	77·0	75·1	6·1	6·5
June	29·955	29·884	77·0	79·0	71·4	72·1	83·9	72·3	78·1	88	2	66	16	68·1	68·4	23·8	24·0	74·4	70·8	6·9	6·3
July	29·997	29·918	75·1	77·5	67·8	69·0	82·0	69·6	75·8	86	22	63	11, 12	63·2	63·7	20·2	20·4	67·5	63·0	5·8	4·8
Sugust	30·020	29·941	76·2	79·0	69·5	70·7	82·5	70·5	76·5	86	16, 25, 29	65	7, 8	65·4	66·1	21·5	22·0	70·1	64·7	6·1	4·7
September	29·993	29·920	78·3	79·4	71·8	72·3	86·9	72·0	79·5	90	13, 14, 19	67	30	68·3	68·3	23·9	23·8	71·8	69·5	5·8	4·8
October	29·949	29·873	78·3	79·2	72·2	72·4	86·6	72·6	79·6	90	29, 31	67	7	68·9	68·8	24·3	24·3	73·6	71·1	6·7	6·9
November	29·864	29·799	81·4	83·4	74·5	75·5	90·2	74·1	82·1	93	3, 24	70	20	71·1	71·8	26·2	26·9	71·6	68·3	5·0	5·3
December	29·818	29·764	82·7	83·7	76·4	76·7	87·7	75·7	81·7	92	1, 4, 5	73	18	73·6	73·8	28·4	28·5	75·3	72·8	4·9	5·8
Year	29·893	29·819	79·7	81·5	73·8	74·5	86·5	73·5	80·0	..	....	..	....	70·7	71·1	26·0	26·3	75·1	71·1	5·9	5·8

Observations are taken at 8.30 a.m. and 3.30 p.m. but the correct time is not always available. However, it is seldom more than 15 minutes out. There are occasions in each month when the observer has been unable to take observations.

Position of Station:—Latitude, 17° 26′ 52″ South; Longitude, 178° 58′ 38″ East.

RETURN OF MAXIMUM, MINIMUM AND MEAN TEMPERATURES AT VARIOUS STATIONS IN FIJI DURING 1933, WITH ABSOLUTE MAXIMUM AND MINIMUM AND DATES OF THEIR OCCURRENCE.

Months.	Mean Max.	Mean Min.	Mean.	Abs. Max.	Date.	Abs. Min.	Date.	Mean Max.	Mean Min.	Mean.	Abs. Max.	Date.	Abs. Min.	Date.	Mean Max.	Mean Min.	Mean.	Abs. Max.	Date.	Abs. Min.	Date.	Mean Max.	Mean Min.	Mean	Abs. Max.	Date.	Abs. Min.	Date.
	Labasa, Macuata Province. Observer, Manager C.S.R. Co., Ltd.							Lautoka, Ba Province. Observer, Manager C.S.R. Co., Ltd.							Nadarivatu, Colo North Province. Observer, District Commissioner.							Munia, Lau Province. Observer, H. H. Steinmetz, Esq.						
January ..	87·0	73·1	80·0	90	21, 24, 26,	70	24, 28	89·5	72·5	81·0	92	31	69	13, 14, 15	78·3	62·4	70·3	82	27	56	18. 20	87·2	76·7	81·9	91	21	73	10, 28
February .	86·6	73·7	80·2	90	11	72	3, 4, 11	89·3	74·1	81·7	93	5, 15	72	2, 3	..	..	..	..	....	..	....	89·0	78·0	83·5	90	3	74	4, 5, 18
March	85·7	72·8	79·3	89	3, 4, 11	70	20	85·8	73·7	79·7	90	14, 15	72	21, 22, 24	78·5	65·4	72·0	81	2, 4, 8, 11	60	28	86·5	78·5	82·0	91	15	74	22, 23, 24, 25, 26
April	85·2	72·3	78·8	90	14, 15, 16, 3	70	10	86·4	73·6	80·0	91	20, 23	70	1, 2	76·2	64·3	70·2	78	Various	60	29	85·5	77·2	81·3	89	20	75	9, 19, 20
May	84·0	70·0	77·0	88	6	65	16	83·0	70·1	76·5	88	29	64	18	..	..	..	..	....	..	....	83·0	76·0	79·5	88	1	72	14
June	84·0	68·0	76·0	87	10, 21	61	24	81·5	67·9	74·7	85	11	62	18	..	..	..	..	....	..	....	81·6	75·0	78·3	86	11, 12	68	16
July	81·8	63·5	72·6	84	4, 5, 6	57	15	81·1	64·9	73·0	88	20	58	9, 13, 14	..	..	..	..	....	..	....	80·0	72·8	76·4	84	6	67	11, 12
August ...	83·7	66·3	75·0	87	18, 19 19	60	2, 3	82·7	67·7	75·2	88	19	62	1, 2	..	..	..	..	....	..	....	80·5	74·0	77·3	85	16	70	1, 15
September	84·5	70·0	77·2	88	12, 15	66	2, 4, 7, 16	84·7	69·2	76·9	88	6, 21, 27, 29	65	2	..	..	..	..	....	..	....	82·1	75·4	78·7	85	6, 15, 16	72	23
October ..	85·0	69·0	77·0	89	24	70	1	85·5	69·9	77·3	89	12, 13, 15	62	3	..	..	..	..	....	..	....	82·1	76·9	79·5	86	23, 25	72	3, 4
November.	86·9	70·3	78·6	90	24, 28, 29	66	13, 14	86·5	72·6	79·5	89	21	70	13, 21	..	..	..	..	....	..	....	85·6	77·9	81·2	89	14	74	20
December	86·8	73·1	80·0	90	1, 2, 9	69	23	88·2	72·9	80·5	92	20	70	27	79·6	62·9	71·3	85	27	60	3, 15, 27	86·2	78·2	82·2	90	30, 31	76	Various
Year ..	85·1	70·2	77·6	..	....	..	....	85·4	70·8	78·0	..	....	..	....	..	..	..	..	....	..	....	84·1	76·4	80·2	..	....	..	....
	Nausori, Tailevu Province. Observer, Manager, C.S.R. Co., Ltd.							Penang, Ra Province. Observer, Manager, C.S.R. Co., Ltd.							Rarawai, Ba Province. Observer, Manager, C.S.R. Co., Ltd.							Suva, Rewa Province. Observer, Harbour Master.						
January ..	86·6	71·6	79·1	92	10	68	5, 17, 18	90·2	72·7	81·5	94	17	70	17	90·9	69·3	80·1	93	20	66	3, 13, 19	88·1	75·0	81·5	96	10	72	19
February .	87·6	73·8	80·7	90	11, 14, 15	71	1, 3	89·0	73·1	81·0	93	10, 12, 13, 15	70	25, 28	90·0	72·0	81·0	94	6, 9	68	3	88·3	76·3	82·3	92	7, 3, 14	75	1, 5, 10, 13, 14 16, 18, 27
March	85·8	73·6	79·7	89	4, 13	71	8	86·0	74·4	80·2	90	14, 15, 16	71	1	88·3	76·7	82·5	93	3	69	24	86·3	75·3	80·8	91	5	72	25
April	83·3	72·5	77·9	89	11, 12	71	6, 13, 20	85·1	74·4	79·8	90	23, 24, 25	73	Various	88·5	70·5	79·5	92	18	66	1, 2	83·9	73·9	78·9	92	12	71	1
May	82·0	69·6	75·8	88	6	66	16	83·4	72·0	77·7	89	6, 7	69	6, 29, 30	87·5	66·7	77·1	91	19, 23	60	16, 17	81·7	72·0	76·9	86	26	68	22
June	80·5	67·0	73·8	88	10	61	17	83·4	69·9	76·6	87	10, 22, 23	66	28	86·1	63·4	74·7	90	2	54	27	80·0	71·0	75·5	87	9	67	6, 16, 17, 28
July	78·1	63·3	70·7	82	22	57	8	82·2	66·4	74·3	86	25	56	11	85·6	59·8	72·7	92	3, 19	52	14	78·6	67·5	73·0	86	22	62	16
August ...	79·1	65·7	72·4	86	16	61	31	84·1	70·5	77·3	89	30	60	7	86·7	62·7	74·7	91	24	55	1	79·3	68·6	73·9	88	10	65	1, 4, 7, 19, 20
September	79·8	68·5	74·1	84	9, 11, 14	63	1, 2, 30	86·5	69·2	77·8	89	9, 13, 17	66	25	88·2	65·6	76·9	92	9, 10, 19	58	1	81·5	70·8	76·1	88	10	65	1, 2
October ..	80·5	69·6	75·1	86	18, 20	62	6	85·2	70·5	77·9	92	24	63	2	88·3	67·3	77·8	94	31	57	2	81·3	71·1	76·2	87	20	64	7
November.	84·7	70·5	77·6	91	17	65	13	90·4	73·4	81·9	94	17, 29, 30	71	20, 22, 27	88·8	69·7	79·7	93	4, 5	64	20	85·4	72·6	79·0	90	3, 17	69	14
December	85·3	72·3	78·8	90	30	68	26	87·9	72·7	80·3	93	1	67	24	90·4	70·5	80·5	94	1, 2, 3, 14, , 19, 27	66	19, 25, 26	85·9	74·6	80·2	92	31	72	16
Year	82·8	69·9	76·3	..	....	..	....	86·1	71·6	78·9	..	....	..	....	88·3	67·9	78·1	..	....	..	....	83·4	72·4	77·9	..	....	..	....

RETURN OF RAINFALL AT VARIOUS STATIONS IN FIJI DURING 1933 AND THE AVERAGES DURING DIFFERENT PERIODS.

Name of Station and Observer.	Province.	Approximate Height above Mean Sea Level.	No. of Years. Rainfall.	No. of Years. Wet Days.	January. Inches.	January. Days.	February. Inches.	February. Days.	March. Inches.	March. Days.	April. Inches.	April. Days.	May. Inches.	May. Days	June. Inches.	June. Days.	July. Inches.	July. Days.	August. Inches.	August. Days.	September. Inches.	September. Days.	October. Inches.	October. Days.	November. Inches.	November. Days.	December. Inches.	December. Days.	Total for Year. Inches.	Total for Year. Days.	Greatest fall in one day. Amount.	Greatest fall in one day. Date.
Delanasau	Bua	71	14	14*	6·39	10	17·97	15	36·00	24	17·66	21	11·07	16	3·08	3	0·00	0	0·00	0	0·00	0	0·61	1	9·98	4	9·98	11	112·74	105	5·60	March 28
L. N. Anderson				†	12·75	13	16·12	13	15·52	16	9·70	11	6·45	7	2·14	3	1·44	2	1·51	3	1·57	2	3·35	2	6·40	5	10·89	9	87·84	86	..	
Deloi	Cakaudrove	51	19	19*	6·39	13	15·05	17	20·81	23	16·52	24	7·77	15	2·18	6	0·18	2	2·95	6	1·08	5	4·79	7	5·03	6	14·76	16	97·51	140	5·25	February 27
A. Mackenzie				†	9·36	12	13·01	12	12·47	14	12·10	13	7·99	7	4·44	5	2·94	4	3·33	5	4·24	6	4·74	6	8·59	8	11·52	12	94·73	104	..	
Devo	Cakaudrove	70	6	6†	* 8·85	5	15·80	12	27·82	26	11·85	12	11·65	15	6·00	9	1·60	2	1·80	2	3·75	5	7·42	11	7·58	10	13·05	16	117·17	125	5·10	February 28
R. S. Lyons				†	11·29	12	16·12	13	13·89	16	14·83	11	7·46	11	3·06	5	3·53	7	2·93	6	3·36	6	5·88	5	8·55	9	11·84	13	102·74	114	..	
Kanacea	Lau		8	7*	11·18	18	6·41	11	22·10	21	5·57	15	12·62	15	4·61	8	0·25	1	1·10	4	2·14	7	1·37	7	3·15	7	5·89	15	76·39	129	4·10	May 2
H. P. Little				†	9·39	13	7·59	11	8·05	12	4·93	10	5·92	9	2·07	5	2·08	4	3·14	8	4·22	6	1·98	5	6·10	9	5·67	10	61·12	102	..	
Katafaga	Lau	8	12	3*	6·97	14	8·56	10	18·92	22	7·81	15	9·09	23	7·79	10	0·55	1	2·07	6	1·97	5	0·21	3	4·81	10	1·24	7	69·99	126	4·09	March 22
T. O. U. Stockwell				†	8·23	15	7·38	11	9·09	13	7·34	12	5·96	14	3·70	8	2·21	4	3·77	5	3·07	6	3·09	4	5·17	10	4·46	8	63·47	110	..	
Korovou	Tailevu	50	9	9*	7·65	15	15·10	23	25·33	25	25·81	29	6·80	23	3·79	11	1·48	7	2·60	12	4·49	16	5·34	17	9·52	19	20·60	27	128·51	224	4·66	March 26
N. W. Faddy				†	11·76	16	20·94	19	16·63	20	13·65	16	10·94	19	8·81	13	5·80	12	6·98	13	9·14	14	10·31	16	14·03	16	12·93	18	141·92	192	..	
Labasa	Macuata	15	39	23*	10·09	15	19·49	19	36·55	26	13·14	15	6·78	13	1·41	4	0·05	1	0·49	4	0·96	6	2·16	8	3·51	10	13·08	17	107·71	138	8·70	March 28
Manager, C.S.R. Co.				†	12·82	17	14·56	17	14·35	18	8·56	12	4·47	10	2·15	5	1·72	5	1·69	6	2·62	6	3·20	7	5·54	10	9·97	15	81·65	128	..	
Lakeba	Lau	87	8	8*	3·97	14	11·45	22	24·34	21	15·42	18	6·27	17	9·27	14	0·18	5	1·57	9	1·36	4	0·71	10	4·21	14	2·17	16	80·92	164	4·70	March 26
T. Mason				†	9·06	18	7·24	16	11·68	20	9·56	17	7·40	16	3·71	12	3·60	11	4·25	12	2·97	11	4·73	11	8·67	12	4·67	14	77·54	170	..	
Lautoka	Ba		33	25*	4·04	9	9·95	14	30·85	20	17·52	16	7·54	11	1·36	3	0·02	1	0·20	3	1·38	6	5·03	8	4·64	6	9·61	16	92·14	113	5·10	March 26
Manager, C.S.R. Co.				†	8·93	14	13·13	15	11·99	15	6·10	11	4·51	8	2·10	5	2·07	5	3·34	6	2·16	5	3·33	8	4·22	8	7·29	11	69·17	111	..	
Lawaqa	Nadroga	15	27	27*	2·65	6	5·38	14	30·30	24	24·93	23	6·74	10	2·72	3	1·06	4	0·66	4	0·92	3	5·87	7	7·27	11	8·21	12	96·71	121	11·40	March 27
District Commissioner				†	8·54	13	9·24	13	9·92	14	6·32	9	5·42	9	3·32	6	3·17	6	5·07	8	2·96	6	3·75	6	4·94	8	6·78	10	69·43	108	..	
Levuka	Lomaiviti	8	39	39*	6·48	14	8·51	16	22·07	25	19·33	18	9·81	19	7·33	10	3·39	6	1·15	7	1·97	9	2·94	9	8·47	11	6·84	15	98·29	162	6·26	March 27 &
Harbour Master				†	9·24	18	10·76	18	12·13	20	10·56	18	7·04	15	4·38	12	3·72	12	5·14	13	4·99	13	5·24	12	8·25	14	8·77	16	90·22	181	..	April 5
Makogai	Lomaiviti	12	20	19*	6·43	20	10·09	21	14·64	28	15·28	24	10·94	17	4·87	12	0·71	9	0·72	12	0·72	6	3·52	9	4·75	9	11·71	16	84·38	183	8·00	April 5
Medical Superintendent				†	7·10	16	8·54	15	10·47	17	10·00	15	6·06	13	3·39	9	2·71	9	3·24	10	3·49	10	3·65	10	5·99	10	9·62	14	74·26	148	..	
Mua	Cakaudrove	200	14	14*	11·62	24	16·18	21	26·19	31	23·91	22	18·70	16	1·90	17	1·73	6	3·87	18	12·35	15	2·66	18	8·36	15	18·06	24	145·53	227	8·50	September 19
S. A. Bull				†	12·24	17	14·37	16	11·38	17	14·55	15	10·41	14	4·92	10	4·05	9	4·08	11	5·99	11	7·28	12	10·96	14	11·05	16	111·28	162		
Munia	Lau	6	38	27*	11·78	19	7·82	20	14·41	23	6.66	25	8·03	17	8·85	13	0·32	6	2·35	11	1·17	11	1·59	9	4·09	10	5·82	19	72·89	183	5·38	June 15
H. H. Steinmetz				†	8·07	18	7·80	18	8·78	20	7·83	16	5·83	13	4·05	12	2·66	11	3·78	12	3·47	11	4·50	10	5·75	12	6·55	17	69·07	170		
Nabouwalu	Bua		15	15†	4·93	11	17·69	18	22·82	20	13·73	15	9·32	10	4·07	5	1·04	2	0·54	2	0·76	2	7·26	4	4·95	2	6·40	7	93·51	98	7·55	March 27
G. B. Toganivalu				†	11·72	13	15·68	16	13·43	17	10·50	14	7·99	11	4·38	8	3·41	7	3·91	8	5·53	6	6·25	6	8·03	8	11·58	9	102·41	123		
Nadarivatu	Colo North	2,740	33	27*	5·50	13	23·57	20	51·76	28	27·34	25	10·08	15	12·09	6	0·40	1	1·23	4	4·97	4	3·36	4	11·00	13	11·11	20	162·41	153	11·35	March 26
District Commissioner				†	21·93	20	26·33	21	24·69	24	12·83	17	7·24	14	3·52	10	3·78	7	5·62	9	4·29	9	4·93	10	8·18	14	16·15	19	139·49	174		
Nailaga	Ba	15	4	4*	3·97	9	14·28	9	33·72	16	18·52	16	3·19	7	0·64	2	0·00	0	0·00	0	0·63	2	3·10	3	6·47	9	5·93	6	90·45	79	5·60	April 27
Rev A. D. Lelean				†	6·73	10	18·47	12	15·13	12	8·16	10	2·52	6	0·58	2	2·83	3	1·56	2	1·91	4	1·91	3	5·04	10	5·32	9	70·16	83		
Naitauba	Lau	15	14	14*	11·49	18	12·55	17	21·08	23	14·28	20	13·36	10	5·57	10	0·78	3	0·83	6	0·70	6	1·82	11	5·51	12	9·22	20	97·19	156	..	.....
G. M. Hennings				†	9·65	14	9·13	14	9·96	16	10·12	13	7·47	10	3·22	8	2·69	7	3·93	9	3·92	8	3·64	9	6·68	11	7·48	12	77·89	131		
Naitonitoni	Serua	8	17	17*	9·24	14	11·98	17	20·20	17	43·51	18	8·25	8	6·94	4	2·66	4	2·56	4	6·77	5	10·26	17	23·97	15	33·18	14	179·52	137	11·93	December 15
District Commissioner				†	10·89	17	12·40	16	13·32	18	14·61	16	11·08	14	8·72	11	5·59	11	7·69	13	8·42	13	9·14	12	12·53	14	13·88	16	128·27	171		
Nasinu Exp. Station	Rewa		3	3*	5·30	16	16·85	22	25·56	27	30·03	27	10·26	20	3·99	12	2·81	7	3·02	15	3·44	17	7·60	25	15·39	19	16·01	22	140·26	229	5·54	April 28
B. F. Hooper				†	10·43	21	17·54	20	20·18	26	16·35	24	9·03	19	3·67	13	8·45	12	6·85	16	5·02	15	7·17	20	14·22	21	12·01	21	130·92	228		
Nausori	Tailevu	23	39	24*	4·91	18	14·26	24	21·55	26	31·94	24	10·48	16	2·90	15	3·54	11	4·04	14	2·77	10	7·85	17	10·19	20	17·86	26	132·29	221	6·59	April 28
Manager, C.S.R. Co.				†	12·21	21	13·08	22	14·07	23	12·31	20	9·89	19	6·18	15	4·65	15	6·46	16	6·31	18	7·58	15	9·03	17	13·09	20	114·87	221		

* Actual rainfall. † Average rainfall.

RETURN OF RAINFALL AT VARIOUS STATIONS IN FIJI DURING 1933 AND THE AVERAGES DURING DIFFERENT PERIODS—*continued.*

Name of Station and Observer.	Province.	Approximate Height above Mean Sea Level.	No. of Years. Rain-fall.	No. of Years. Wet Days.	January. Inches.	January. Days.	February. Inches.	February. Days.	March. Inches.	March. Days.	April. Inches.	April. Days.	May. Inches.	May. Days.	June. Inches.	June. Days.	July. Inches.	July. Days.	August. Inches.	August. Days.	September. Inches.	September. Days.	October. Inches.	October. Days.	November. Inches.	November. Days.	December. Inches.	December. Days.	Total for Year. Inches.	Total for Year. Days.	Greatest fall in one day. Amount.	Greatest fall in one day. Date.
Navo	Ba	15	32	24*	2·40	9	9·31	19	29·96	26	10·19	16	3·89	6	1·14	6	0·02	1	0·67	2	0·96	5	3·22	5	8·72	9	8·09	18	78·57	122	5·80	March 26
Manager, C.S.R. Co.				†	8·99	12	11·92	14	10·43	15	5·10	9	3·87	6	2·13	4	2·16	4	3·28	5	2·31	4	2·84	6	3·87	8	7·55	11	64·13	98		
Navuso	Rewa	24	2	*	6·46	15	11·35	22	12·56	28	33·14	25	13·45	21	2·63	16	4·69	13	2·41	17	3·09	16	5·16	17	9·33	23	19·10	26	123·37	239	7·90	April 29
A. H. C. Surridge				†	9·11	18	14·48	19	10·39	23	27·51	23	10·41	20	3·98	15	7·17	13	4·93	17	4·34	16	5·44	16	13·25	20	16·11	24	127·12	224		
Gau	Lomaiviti	25	6	6*	7·80	16	15·36	23	32·15	27	13·22	26	6·82	20	2·82	7	0·80	3	1·17	6	0·94	6	6·05	13	2·10	5	6·42	15	95·65	167	5·18	March 14
R. W. Fry				†	8·46	18	13·37	20	13·46	22	9·59	20	5·27	16	4·14	11	3·11	10	2·49	13	3·29	9	2·62	11	5·47	12	7·35	14	78·62	176		
Penang	Ra		49	28*	2·67	8	16·42	18	35·21	27	22·54	23	2·72	9	1·81	5	0·24	2	0·35	5	0·04	1	0·94	8	4·15	12	7·39	19	94·48	137	6·13	April 28
Manager, C.S.R. Co.				†	11·34	15	15·21	16	12·78	18	9·98	14	5·01	11	2·86	8	2·06	7	3·02	7	2·45	7	3·34	7	5·33	10	8·86	13	82·24	133		
Rabi	Cakaudrove	110	29	28*	10·59	17	8·65	17	22·50	24	12·44	17	9·62	12	2·40		1·05	5	2·05	9	6·83	11	3·07	8	11·47	8	20·21	19	110·88	154	5·10	December 13
S. G. Lyons				†	15·94	19	16·29	19	16·86	20	16·23	18	12·56	17	6·67	13	4·11	12	5·82	12	7·16	14	7·83	12	11·32	14	15·54	17	136·33	186		
Rarawai	Ba		39	28*	4·34	11	14·31	14	37·03	21	21·49	23	3·45	9	0·52	3	0·02	1	0·34	2	1·14	2	3·51	5	9·53	11	9·66	15	105·34	117	6·75	March 25
Manager, C.S.R. Co.					11·67	15	16·86	17	13·60	16	7·98	12	4·07	8	2·33	6	1·98	4	3·04	5	2·54	5	3·43	7	4·90	10	9·22	13	81·53	118		
Richmond	Kadavu	87	19	19*	0·94	7	3·53	18	7·42	23	11 21	22	4·71	10	2·05	7	0·35	4	2·73	7	0·31	3	4·10	9	9·37	15	6·08	11	52·80	136	3·60	November 18
Rev. M. Johnstone				†	7·31	13	8·03	13	7·12	15	6·20	13	7·32	11	3·43	9	3·30	7	5·71	9	3·29	8	4·61	7	3·81	9	4·26	9	64·89	123		
Rotuma	Rotuma	84	29	21*	11·84	24	13·41	19	12·88	21	16·13	21	11·08	22	7·31	16	8·41	17	6·04	19	10·66	21	10·24	16	7·52	14	9·57	20	125·09	230	5·74	October 5
A. E. Cornish				†	13·87	21	16·06	21	14·11	21	11·37	20	12·83	20	8·87	17	7·66	18	9·20	20	9·02	19	10·65	19	12·72	20	12·53	21	138·89	237		
Saiyaro	Tailevu	30	..		..		..	..	..	..	32·28	26	7·04	20	5·72	14	1·56	9	3·82	14	3·47	16	3·46	12	7·55	14	17·67	24	....	..	3·75	April 23 & December 9
Salialevu	Cakaudrove	100	18	18*	22·10	24	9·06	21	22·71	26	24·10	22	27·46	20	29·69	16	1·98	9	9·17	14	11·21	14	10·30	17	14·74	13	19·63	24	202·15	220	8·30	June 13
D. P. Ragg				†	15·31	15	18·34	16	14·85	16	18·72	16	17·66	16	16·64	13	12·73	13	14·56	14	22·44	15	18·29	13	18·12	12	18·19	15	206·35	174		
Sigatoka Cotton Station	Nadroga	160	7	7*	3·26	9	6·68	20	29·21	27	24·31	23	7·30	12	2·25	8	0·15	1	1·53	6	0·72	3	4·33	11	7·62	15	8·71	15	96·07	150	13·75	March 27
R. R. Anson				†	8·04	13	9·73	15	10·27	16	8·81	12	5·30	11	2·20	6	3·13	7	3·46	7	2·54	5	3·06	7	5·20	12	6·75	12	68·49	123		
Suva	Rewa	8	49	49*	4·84	19	12·51	25	28·09	29	33·09	27	10·50	20	7·79	16	1·88	16	2·94	17	1·53	19	14·52	23	14·76	23	18·95	25	151·40	259	7·64	December 15
Harbour Master				†	11·44	23	11·39	22	14·74	25	12·44	23	9·97	21	6·62	18	5·16	18	8·07	19	7·42	19	8·32	19	9·98	19	12·73	22	118·28	248		
Tamanua	Serua	30	3	3*	8·53	16	10·31	20	24·60	27	34·86	29	10·10	28	9·03	14	2·37	10	3·31	16	4·17	16	13·34	26	19·98	21	31·78	19	172·38	242	16·70	December 15
J. Chapman				†	10·19	20	16·32	21	19·61	26	20·32	23	10·53	24	5·94	15	6·08	12	5·54	17	5·52	15	11·47	19	15·28	23	16·92	20	143·72	235		
Vaileka	Ra	15	4	4*	3·15	7	21·43	16	32·20	24	22·10	21	2·88	8	1·14	4	0·14	1	0·41	2	0·00	0	0·84	5	3·52	9	5·02	13	92·83	110	6·10	February 28
District Commissioner				†	7·67	11	23·77	15	14·72	14	9·60	11	2·56	7	0·68	2	2·84	4	2·52	3	2·26	4	1·08	4	6·12	9	7·01	9	80·83	93		
Valeci	Cakaudrove	30	27	26*	5·85	19	10·51	21	8·34	21	7·30	22	13·33	14	6·76	13	0·58	6	4·42	9	2·02	7	1·66	5	4·82	8	6·51	18	72·10	163	7·00	May 13
Wireless Officer				†	11·53	16	11·70	15	11·98	16	9·38	15	8·36	13	4·91	9	4·50	9	6·23	11	6·28	10	7·15	9	8·32	11	10·91	14	101·25	148		
Vatugunisese	Cakaudrove	12	2	2*	6·88	15	13·34	20	22·29	26	16·48	20	10·28	17	3·55	9	1·64	3	5·21	10	0·58	7	2·89	9	5·92	8	10·46	17	99·52	161	6·51	May 14
J. H. Trimmer				†	11·90	19	12·37	19	14·54	20	18·57	19	7·60	12	2·29	8	1·82	7	4·08	9	1·80	7	2·33	7	9·08	13	14·24	17	100·62	157		
Vuna	Cakaudrove	25	14	14*	7·81	17	12·96	17	16·40	23	23·43	25	16·91	16	7·34	11	3·41	6	3·35	8	2·69	12	7·08	14	9·51	9	14·15	18	125·04	176	8·70	April 4
H. V. Tarte				†	13·01	17	14·74	19	10·80	19	14·21	19	9·72	15	6·10	12	5·16	10	6·91	13	7·53	14	9·95	12	9·49	13	11·66	17	119·28	180		
Vunidawa	Colo East	200	21	21*	2·76	8	17·68	15	23·53	15	25·45	25	7·88	14	1·92	9	0·82	6	3·70	12	1·33	15	9·50	18	20·05	16	25·80	21	140·42	174	8·50	March 26
District Commissioner				†	14·67	18	18·49	18	16·39	19	16·98	18	8·86	15	7·85	11	4·75	10	6·88	11	7·71	13	9·09	14	13·39	15	16·91	16	141·97	178		
Vunisea	Kadavu	70	3	2*	2·48	6	3·53	6	12·56	21	19·65	26	3·95	9	2·80	11	0·45	4	1·90	5	1·03	4	4·69	9	12·36	17	3·92	9	69·32	127	3·00	November 18
P. Warner				†	5·22	7	8·49	7	10·09	15	12·40	18	10·97	10	2·87	8	2·17	7	4·32	9	1·88	4	2·97	9	6·53	11	6·63	8	74·54	113		
Waidamu	Cakaudrove	6	1	1*	12·36	27	13·46	22	33·15	31	21·39	25	32·36	20	12·54	20	1·77	12	6·10	21	5·03	22	5·62	22	7·16	16	20·94	25	171·88	263	..	.....
W. A. Beddows																																
Wainunu	Bua	25	54	24*	13·70	21	18·05	25	29·37	29	14·84	23	15·13	15	7·20	11	3·29	8	2·99	7	7·17	14	4·91	11	10·18	10	17·89	23	145·26	197	4·75	March 30
Captain D. Robbie				†	18·38	19	18·41	19	18·04	21	14·90	18	11·36	17	6·22	12	5·44	11	6·75	13	8·79	15	10·32	13	12·37	15	16·19	18	147·17	191		
Waiyevo	Cakaudrove	180	27	27*	10·41	20	17·20	14	16·62	23	21·43	17	17·68	11	3·30	2	1·24	3	1·01	7	2·82	10	2·33	6	5·25	10	11·28	17	110·57	140	8·30	April 4
Wireless Officer				†	11·46	14	13·27	14	11·55	16	10·54	17	8·50	11	4·79	9	2·31	7	3·86	7	4·62	9	7·11	10	9·12	11	10·49	14	97·62	139		

* Actual rainfall † Average rainfall.

ADDITIONAL METEOROLOGICAL OBSERVATIONS AT SUVA, FIJI, IN CONNECTION WITH SECOND INTERNATIONAL POLAR YEAR, AT 13 H. G.M.T.

Greenwich Date.	Attached Thermometer and Barometer as read.		Air Pressure at Mean Sea Level in the Units of Measurement.	Temperature Degrees F. In Screen. Dry Bulb.	Temperature Degrees F. In Screen. Wet Bulb.	Humidity. Dew Point.	Humidity. Vapour Pressure.	Humidity. Percentage.	Wind. Direction (True).	Wind. Force (0–12) Beaufort Scale.	Weather (Beaufort Letters).	Visibility.	Clouds. Amount (0–10).	Clouds. Form.	Clouds. Direction whence coming.	State of Ground.	Greenwich Date.
	°	in.	in.	°	°	°	mb.										
								JANUARY, 1933.									
11	81	29·862	29·669	78·6	77·0	77	31·6	93	Calm	..	b	l	..	....	...	0	11
12	81	29·945	29·752	75·9	73·8	73	27·8	91	N.XW.	1	b	l	1	cu	N.W.	5	12
25	81	30·033	29·840	78·2	74·8	73	27·6	85	N.N.E.	1	b.l	l	1/1	ci/cu/cu-nb	N.E./N.E.	0	25
26	81	30·053	29·860	79·2	75·2	73	27·9	83	E.	1/2	od	k	9	cu-nb/nb	N.E.	2	26
								FEBRUARY, 1933.									
8	85	30·037	29·832	78·8	77·2	77	31·6	93	Calm	..	c	k	7	fr-cu/cu-nb	N.E.	1	8
9	84	30·097	29·859	79·4	77·0	75	30·1	89	N.XE.	1	o	l	9	st-cu	N.E.	1	9
22	85	29·796	29·591	80·0	78·6	78	32·6	94	Calm	..	bc	l	5	cu/nb	N.	1	22
23	84	29·820	29·618	80·6	76·2	75	29·2	81	E.S.E.	1	bc	k	4	cu/cu-nb	E.	1	23
								MARCH, 1933.									
8	83	29·988	29·789	76·0	74·8	75	29·2	94	Calm	..	o	l	6/3	ci-st/cu	—/ENE	1	8
9	84	29·948	29·746	79·0	77·2	76	30·8	92	Calm	..	cd	l	8	cu/cu-nb/nb	N.	1	9
22	80	29·986	29·796	75·2	75·0	75·0	29·7	99	E.S.E.	2	oR	k	10	nb	N.E.	2	22
23	80	30·055	29·865	74·6	74·4	75	29·7	99	Calm	..	oR	g	10	nb	N.E.	2	23
								APRIL, 1933.									
12	82	30·065	29·868	78·2	75·0	74	28·3	86	Calm	..	b	k	3	ci/ci-st	N.W.	0	12
13	81	30·049	29·856	75·8	75·0	75	29·2	95	Calm	..	o	l	9	f-cu	N.E.	1	13
26	79	30·042	29·854	75·2	74·8	74	28·9	98	Calm	..	o	l	10	nb	N.E.	2	26
27	78	30·032	29·847	74·0	73·2	72	27·3	96	Calm	..	o	k	10	cu-nb/nb	N.E.	2	27
								MAY, 1933.									
10	76	30·140	29·961	73·6	72·0	72	26·6	92	Calm	..	od	i	10	nb	N.	1	10
11	77	30·160	29·978	75·8	74·2	74	28·5	93	E.XN.	2	orz	i	10	cu-nb/nb	...	1	11
24	77	30·140	29·958	74·2	72·0	71	25·9	89	N.	1	o	l	10	cu-nb/nb	N.	1	24
25	78	30·117	29·932	74·8	73·4	73	27·5	93	W.	2	b	l	?	cu	W.	1	25
								JUNE, 1933.									
7	77	30·120	29·938	73·2	71·2	70	25·0	90	Calm	..	o	k	10	cu-nb/nb	N.E.	1	7
8	77	30·085	29·903	75·4	73·0	71	26·2	89	N.	1	o	l	10	fr-nb	N.E.	2	8
21	77	30·110	29·928	74·8	73·8	74	28·2	95	Calm	0	o	l	10	nb	...	1	21
22	73	30·152	29·982	71·8	70·0	69	24·2	91	S.E.	1	od	i	10	nb	S.E.	1	22
								JULY, 1933.									
12	73	30·200	30·030	69·0	66·8	66	21·7	89	S.W.	3	o	k	10	nb	S.W.	1	12
13	73	30·192	30·022	73·0	67·5	64	20·5	75	E.S.E.	2	o	l	10	cu/cu-nb	S.E.	0	13
26	73	30·202	30·032	72·4	66·6	62	19·2	72	E.N.E.	3	o	l	10	cu/cu-nb	N.E.	0	26
27	72	30·126	29·958	70·2	65·8	63	19·5	78	N.N.E.	2	o	l	10	a-st/fr-nb	N.E.	0	27
								AUGUST, 1933.									
9	75	30·185	30·008	73·0	70·4	69	24·4	87	N	2	bc	m	3/1	ci/ci-st/cu	S.W./N.	5	9
10	78	30·146	29·961	72·4	71·0	70	24·8	93	Calm	0	b	m	1	cu	W.	5	10
23	73	30·228	30·058	71·2	69·8	69	24·0	93	Calm	0	bc	l	5	cu/cu-nb	...	0	23
24	73	30·230	30·060	72·6	69·0	68	23·1	82	N.E.	1	bc	l	4/2	ci-cu/cu/cu-nb	W./N.E.	0	24

Greenwich Date.	Attached Thermometer and Barometer as read.			Air Pressure at Mean Sea Level in the Units of Measurement.			Temperature (Degrees F.) Dry Bulb.	Wet Bulb.	Dry Bulb.	Wet Bulb.	Dry Bulb.	Wet Bulb.	Humidity. Dew Point.			Vapour Pressure.			Percentage.			Wind Direction and Force (Beaufort S Direction (True).	Force (0-12).	Direction (True).	Force (0-12).	Direction (True).
	1h.	7h.	19h.	1h.	7h.	19h.	1h.		7h.		19h.		1h.	7h.	19h	1h.	7h.	19h	1h.	7h.	19h	1h.		7h.		19h.
	°	″	°	″	°	″	°	°	°	°	°	°	°	°	°	mb.	mb.	mb.	%	%	%					
1	83	29·760	82	29·776	81	29·813	29·561	29·579	29·620	86·0	77·4	79·2	75·0	79·2	75·0	74	73	73	28·4	27·9	27·9	67	82	82	E.S.E.	3	E.S.E.	2	S.E.XE.
2	..	..	83	29·856	81	29·887	..	29·657	29·694	..	..	80·3	75·9	80·0	73·6	..	74	70	..	28·2	25·3	..	81	73	....	..	E.S.E.	3	S.E.XE.
3	84	29·887	82	29·898	82	29·894	29·685	29·701	29·697	86·4	77·0	79·4	73·0	80·0	75·0	72	69	73	26·9	24·4	27·4	64	73	79	E.S.E.	3	E.S.E.	3	E.S.E.
4	83	29·885	81	29·904	80	29·936	29·686	29·711	29·746	84·2	76·0	74·2	72·6	77·2	72·8	72	72	70	27·1	26·6	25·3	67	92	80	E.	4	E.N.E.	3	E.N.E.
5	82	29·930	82	29·946	80	29·941	29·733	29·749	29·751	83·3	75·9	79·0	71·6	79·0	74·0	72	68	72	26·8	23·0	26·5	70	69	78	E.	3	E.	2	Calm
6	84	29·932	84	29·926	80	29·938	29·730	29·724	29·748	86·8	78·0	80·0	75·4	77·2	73·2	74	74	71	28·8	28·2	26·0	66	80	82	E.	3/4	E.N.E.	2	E.N.E.
7	83	29·920	83	29·896	81	29·900	29·721	29·697	29·707	86·4	76·0	80·2	75·4	77·0	74·0	71	73	73	25·5	27·4	27·3	60	79	86	E.XS.	3	E.XN.	1	N.
8	84	29·848	84	29·860	82	29·828	29·666	29·658	29·631	86·4	76·4	81·2	75·0	79·8	75·0	71	72	73	26·2	27·0	27·4	62	74	79	E.	3/4	N.E.XE.	2	N.E.
9	86	29·802	86	29·790	83	29·760	29·595	29·583	29·561	86·8	78·8	84·4	77·0	82·6	77·6	76	73	76	30·3	27·8	30·5	69	70	79	N.E.	4	N.N.E.	3	N.N.E.
10	88	29·727	88	29·724	84	29·762	29·514	29·514	29·560	94·0	81·4	86·2	78·0	81·6	76·0	76	75	74	30·4	29·2	28·7	57	68	77	N.	3	NNE'ly	2	N.E'ly
11	84	29·780	85	29·806	83	29·891	29·578	29·601	29·692	84·8	79·8	82·2	79·0	79·0	74·3	76	78	72	32·8	32·5	27·2	79	86	80	S.W.	3	W.S.W.	4	N.
12	85	29·886	85	29·920	81	29·832	29·681	29·715	29·755	86·0	79·0	82·0	77·1	76·0	72·2	76	75	70	30·7	29·5	25·0	72	79	83	S.XW.	3	S.W.XW	4	N.
13	82	29·934	82	29·972	81	30·032	29·737	29·775	29·839	81·4	74·4	80·1	74·2	77·2	71·6	71	71	68	25·6	26·0	23·9	70	74	76	S.S.W.	3	S.S.W.	3	N.N.W.
14	82	29·990	83	30·006	81	30·048	29·793	29·807	29·855	83·6	74·2	80·2	72·8	77·0	73·0	70	69	71	24·9	23·9	26·0	63	69	82	S.XW.	2/3	Calm	0	N.
15	84	30·024	84	30·028	81	30·026	29·822	29·826	29·833	84·8	75·4	80·8	74·4	77·4	75·0	71	71	73	25·9	26·3	28·0	63	73	89	S.E'ly	3	S.E.	2	N.
16	..	..	84	30·013	82	30·006	..	29·811	29·809	..	..	80·8	74·6	79·2	74·0	..	72	72	..	27·0	27·4	..	74	78	....	..	S.E.	2	N.E.
17	84	30·001	84	30·000	82	29·999	29·799	29·789	29·802	86·2	75·4	80·8	73·6	80·8	72·8	70	71	69	24·8	25·6	24·2	59	70	66	S.E.	3	E.S.E.	1	E.XS.
18	..	..	84	29·967	80	30·000	..	29·765	29·810	..	..	81·0	73·4	74·6	71·6	..	70	71	..	24·9	25·5	..	86	69	....	..	E.	2	N.
19	85	29·926	84	29·960	81	30·010	29·721	29·758	29·817	89·0	78·0	83·0	76·0	75·6	74·2	73	73	74	27·1	27·5	28·5	60	72	93	E.S.E.	3	E.N.E.	2	N.
20	84	29·974	84	29·968	83	29·992	29·772	29·746	29·793	87·5	79·0	82·0	76·8	80·0	76·0	76	75	74	30·6	29·5	28·9	67	78	83	E.N.E.	3	E.N.E.	1	E.
21	85	29·960	84	29·967	83	29·987	29·755	29·765	29·788	85·0	78·0	82·4	77·6	77·2	75·2	75	75	74	29·6	29·5	28·8	72	80	91	E.	2	E.	2	N.N.E.
22	85	29·972	85	29·979	82	30·024	29·767	29·774	29·827	87·0	77·6	82·2	74·8	78·4	75·6	73	71	74	28·0	25·8	28·3	65	70	89	E.	3	E.	2	N.
23	..	..	85	30·004	82	30·024	..	29·799	29·827	..	..	82·0	74·2	77·2	74·0	..	68	73	..	23·7	27·3	..	64	86	....	..	E.	2	N.
24	85	30·026	85	30·030	79	30·007	29·821	29·825	29·819	86·0	76·0	81·4	74·8	76·2	73·4	71	71	72	25·5	26·3	26·4	62	73	87	E.	3	E.S.E.	2	N.
25	85	30·018	85	29·990	83	30·046	29·813	29·785	29·847	88·0	77·0	83·2	75·8	78·2	75·8	72	72	74	26·8	26·8	29·0	59	70	89	S.E.	3	E.	2	N.
26	87	30·038	85	30·056	84	30·073	29·828	29·851	29·871	90·0	80·2	84·0	78·0	77·0	75·0	76	75	74	30·5	30·1	28·8	64	76	91	E.	3	N.	1	N.E.
27	86	30·048	85	30·055	82	30·074	29·841	29·850	29·877	87·5	79·0	82·0	78·0	76·2	74·4	75	76	73	29·5	31·0	27·8	67	83	92	N.E.XN.	3	N.E.XE.	2	Calm
28	83	30·060	82	30·057	81	30·064	29·861	29·860	29·871	83·5	77·0	77·6	75·0	76·2	74·2	74	74	73	28·3	28·6	27·8	84	85	90	N.E.	3	E.N.E.	1	N.XE.
29	84	30·036	84	30·040	82	30·063	29·834	29·838	29·866	88·0	78·4	81·6	75·8	78·0	75·6	74	73	74	29·1	28·0	29·0	64	76	80	E.S.E.	3	E.	2	Calm
30	85	30·028	84	30·018	81	30·034	29·823	29·816	29·841	87·0	79·0	81·2	76·0	81·6	75·0	76	74	73	30·3	28·4	26·3	69	78	73	E.	3	E.	3	N.XE.
31	85	30·016	81	30·000	81	30·010	29·811	29·707	29·817	87·0	79·8	77·8	75·2	76·2	74·8	77	74	74	31·9	29·0	28·5	72	88	93	E.S.E.	4	E.	2	N.

ADDITIONAL METEOROLOGICAL OBSERVATIONS AT SUVA, FIJI, IN CONNECTION WITH THE SECOND

	°	″	°	″	°	″	″	″	″	°	°	°	°	°	°	°	°	°	mb.	mb.	mb.								
1	84	29·958	82	29·990	81	30·018	29·756	29·793	29·825	82·5	79·0	79·2	77·4	77·0	74·6	77	76	73	31·7	30·8	28·0	86	92	89	E.XS.	3	N.	2	N.
2	87	30·008	83	30·016	82	30·059	29·798	29·817	29·866	90·0	80·0	79·0	77·0	76·8	75·4	76	76	75	30·5	30·8	29·5	63	91	93	N.N.E.	3	N.XE.	2	N.
3	83	30·028	80	30·010	80	30·036	29·829	29·820	29·846	83·2	77·0	75·6	73·2	76·0	74·8	73	72	75	27·5	27·1	29·2	71	89	94	N.E.	2	N.E.	1	N.
4	85	30·026	81	30·032	80	30·059	29·821	28·839	29·869	88·0	78·2	79·0	77·0	77·0	75·2	74	76	74	28·3	30·8	28·8	63	91	92	N.W.	1	N.	1	N.
5	87	30·036	84	30·037	82	30·050	29·826	29·835	29·853	90·0	73·0	82·0	78·0	79·8	76·6	64	76	76	20·2	31·0	30·3	42	83	86	N.E.	3	W.	1	N.N.E.
6	87	30·016	85	30·031	83	30·032	29·806	29·823	29·833	84·0	79·0	82·6	77·4	78·2	76·0	77	76	75	31·6	30·5	29·8	79	78	90	N.E.XE.	3	N.N.E.	1	N.
7	88	30·068	85	30·070	85	30·052	29·855	29·865	29·847	91·0	79·8	83·6	78·4	80·8	77·0	75	77	75	30·1	31·6	29·9	60	79	83	N.N.E.	3	N.N.E.	2	N.N.E.
8	88	30·154	85	30·040	85	30·068	29·941	29·853	29·863	88·0	81·0	84·0	78·8	80·8	78·8	78	77	78	33·0	31·6	33·0	73	78	91	E.XN.	3/4	N.E.	1	N.E.
9	87	30·124	86	30·104	83	30·138	29·914	29·897	29·939	89·0	78·8	82·5	78·0	77·2	76·0	75	76	76	29·4	30·2	30·2	62	81	94	N.N.E.	3	N.E.XE.	1	N.XW.
10	84	30·112	85	30·168	84	30·090	29·910	29·963	29·888	85·5	88·8	84·0	78·0	80·2	71·8	74	75	67	28·9	30·1	22·6	70	76	65	N.E.	2/3	N.E.	2	Calm
11	85	30·030	84	30·057	83	30·061	29·825	29·855	29·862	78·0	79·0	80·4	77·2	79·0	76·2	75	76	75	29·4	30·3	29·3	63	86	87	S.E.	4	W.	2	N.W.
12	88	30·020	85	30·050	84	30·053	29·807	29·845	29·851	90·2	81·2	79·0	77·2	77·0	75·4	77	76	75	32·1	30·8	29·5	67	92	93	S.E.	3	N.	1	Calm
13	..	..	83	30·026	85	30·010	..	29·827	29·805	..	..	78·0	76·6	77·4	75·0	..	76	73	..	30·5	28·0	..	94	89	....	..	Calm	..	N.
14	86	29·990	85	29·978	83	30·051	29·783	29·773	29·852	88·5	80·2	81·8	79·8	77·2	75·8	76	79	75	30·6	34·1	29·5	69	91	94	E.S.E.	2	W.S.W.	2	Calm
15	..	..	84	29·966	82	29·986	..	29·764	29·789	..	..	82·0	82·0	78·2	75·0	..	77	74	..	31·7	28·3	..	85	86	....	..	N.	1	N.XW.
16	..	..	84	29·976	82	29·974	..	29·774	29·777	..	..	78·4	79·0	76·4	75·4	..	78	75	..	32·5	29·2	..	87	95	....	..	N.	1	Calm
17	83	29·972	81	29·962	81	29·940	29·773	29·769	29·747	85·8	78·0	76·4	74·8	78·0	75·0	75	74	74	29·2	28·5	28·3	70	93	86	N.E.XE.	1	N.XE.	2	N.N.W.
18	85	29·992	84	29·862	83	29·814	29·787	29·663	29·615	89·0	78·0	80·4	76·4	78·6	77·0	73	74	77	27·9	28·9	31·6	60	83	93	N.XE.	3	Calm	..	W.XS.
19	83	29·814	84	29·800	82	29·830	29·615	29·598	29·633	83·8	79·0	81·2	78·4	78·8	77·0	77	77	76	31·6	31·4	30·8	80	88	92	S.S.W.	2	N.E.XN.	2	N.XW.
20	83	29·805	84	29·780	82	29·806	29·606	29·582	29·609	84·2	80·2	82·0	79·5	79·0	77·0	78	79	76	33·2	33·3	30·8	83	89	91	E.	1	N.E.	1	W.
21	83	29·782	85	29·776	83	29·767	29·583	29·571	29·568	83·0	79·0	84·2	80·2	81·6	76·6	77	78	77	32·1	33·2	32·5	83	83	88	S.XW.	2	S.S.W.	3	S.E.
22	87	29·772	86	29·770	84	29·794	29·562	29·563	29·592	89·5	81·2	83·4	79·0	80·6	76·6	78	77	74	33·0	31·3	28·9	69	82	83	E.	3	E.N.E.	1	E.S.E.
23	85	29·796	84	29·790	84	29·790	29·581	29·588	29·688	87·5	80·2	82·0	77·6	80·8	75·0	76	76	72	31·1	30·2	27·0	72	82	75	E.	4/5	E.	3/4	S.E.XE.
24	85	29·846	84	29·824	83	29·820	29·641	29·622	29·621	85·2	77·0	82·0	75·6	81·0	76·0	73	73	74	28·1	27·3	28·4	68	74	79	S.S.E.	3/4	S.S.E.	3	S.S.E.
25	83	29·822	83	29·806	81	29·800	29·623	29·607	29·607	83·0	78·0	79·0	76·8	78·0	76·4	76	76	76	30·5	30·8	33·7	79	90	93	S.XE.	4	S.S.E.	3	W.
26	83	29·804	83	29·792	82	29·815	29·605	29·593	29·618	81·2	78·8	80·0	78·2	77·4	75·8	75	77	75	30·1	31·9	29·5	89	92	92	W.XS.	3/4	N.	1	N.
27	84	29·816	82	29·816	80	29·792	29·614	29·623	29·602	83·5	79·0	77·8	76·8	76·0	75·2	77	77	75	31·3	30·2	29·2	82	95	96	S.XW.	3	N.E.XN.	1	N.N.E.
28	79	29·788	79	29·774	79	29·848	29·600	29·586	29·660	77·0	77·0	77·0	76·0	77·0	75·8	77	76	76	31·7	30·2	30·2	100	95	94	N.XE.	3/4	N.	4/5	N.XE.

Weather (Beaufort Letters).			Visibility.			Cloud. Amount (0–10).			Cloud. Form.			Cloud. Direction whence coming.			State of Ground.			Greenwich Date.
1h.	7h.	19h.	1h.	7h.	19h	1h.	7h.	19h	1h.	7h.	19h.	1h.	7h.	19h.	1h.	7h.	19h	

INTERNATIONAL POLAR YEAR DURING JANUARY, 1933, AT 1H., 7H. AND 19H., G.M.T.

c	ov	o	M	m	L	3/5	9	5/4	ci/fr-cn/nb	fr-cu/nb/st	ci-st/fr-cu/cu	—/E.	E.S.E.	W./E.S.E.	1	1	1	1
..	c	bc	.	j	K	..	2/7	2/4	——	ci-st/cu/nb	ci/ci-st/cu/cu-nb	....	—/S.E.	....	.	5	0	2
c	bc	bc	K	l	L	2/6	2/4	6	a-cu/cu/cu-nb	ci/st-cu/fr-cu/cu	cu/cu-nb	W./E.S.E.	W.N.W./E.S.E.	W.N.W./E.S.E.	0	0	0	3
bc	or	o	K	h	L	6	10	9	cu/nb	st/nb	st/cu	E.	E.N.E.	E.	0	1	1	4
o	bc	bc	K	m	M	9	5	4	cu-nb/nb	st-cu	fr-cu	E.	E.	E.N.E.	1	0	0	5
bc	bc	o	L	l	K	4	6	10	cu/cu-nb	cu/cu-nb	nb	E.	N.E.	N.E.	0	0	1	6
c	bc	b	L	l	L	7	6	2/1	st-cu/nb	cu/cu-nb	ci/fr-cu	E.	E.	W./E.	0	0	5	7
b	o	b	L	m	L	3	9	2/1	cu	a-st/fr-cu	ci/st-cu/cu	N.E.	E.	W./N.E.	0	0	0	8
c	c	bc	K	l	L	7	1/6	4/1	cu/cu-nb	ci/cu-nb/nb	ci/ci-st/a-cu/cu	N.E.XN.	W./N.	W./N.N.E.	0	0	0	9
bcy	bc	c	L	l	L	1/4	6	3/4	ci/cu	st-cu	ci/ci-st/cu/cu-nb	N.N.W./N.N.W.	W.N.W.	W.N.W./W.N.W	0	0	0	10
c	bc	b	K	l	L	1/6	6	1	ci/ci-st/cu/nb	st/cu/cu	cu	W.N.W./W.N.W	W.N.W.	N.W.	0	0	5	11
b	bc	b	L	l	L	3	4	0	fr-cu/cu	st-cu/st/cu	....	W.N.W.	W.	....	0	5	0	12
c	o	bc	L	m	L	7	9	4	cu/cu-nb	nb	ci/a-cu/st-cu	W.	S.W.	N.W.	0	5	0	13
bc	c	b	L	l	L	1/4	7	1	st-cu/cu-nb	st-cu	st-cu	W.N.W./W.N.W	N.W.	E.	0	0	5	14
bc	ov	c	L	m	M	5	9	8	cu	nb	fr-cu/nb	S.E.	E.S.E.	E.S.E.	0	0	1	15
..	ov	bc	..	m	L	..	9	1/5	....	nb	ci/cu/cu-nb	....	E.	W.N.W./E.S.E.	.	0	0	16
bcy	cv	bc,v	M	m	M	2/4	2/6	4	ci/cu/cu-nb	a-cu/st-cu/fr-cu	fr-cu/cu	N.W./SE..	W./E.S.E.	E.S.E.	0	0	0	17
..	bcv	b	..	m	L	..	5	..	....	fr-cu/cu	——	....	E.S.E.	——	.	0	1	18
b	bc	o	L	l	I	3	1/3	10	cu	ci-cu/fr-cu/cu	st-nb/nb	E.S.E.	N./E.N.E.	W.N.W.	0	0	5	19
o	c	o	L	l	L	1/8	2/6	10	ci/ci/cu/nb	a-cu/fr-cu/cu/cu-nb	fr-st/cu	N./E.N.E.	E./E.N.E.	E.N.E.	0	0	0	20
o	bc	bc	L	l	L	10	2/4	2/6	cu/cu-nb	ci-cu/cu	ci-st/st-cu/cu-n/nb.	N.E.	E.N.E./E.	E.N.E./E.	0	0	0	21
bc	bc	bc	L	l	L	7	4/2	7	cu/cu-nb/nb	ci-cu/cu	cu/cu-nb	E.	E.N.E./N.E.	N.E.	0	0	0	22
..	b	b	..	l	L	..	2	2	——	fr-cu	fr-cu/cu	....	E.N.E.	N.	.	0	0	23
bc	c,v	bw	L	m	L	2/3	4/4	1/1	ci/ci-cu/cu	a-cu/fr-cu/cu	ci/cu	E./E.	S./S.E.	N/E.	0	0	1	24
bc,y	b	b	L	l	L	5	1/2	3	ci-cu/cu	ci/ci-cu/nb	cu/cu-nb	E.S.E.	N /E.N.E.	N.E.	0	0	1	25
bc	o	o	L	l	L	5	9	5/4	ci/ci-cu-cu-nb	st/cu/cu-n/n	ci/cu/cu-nb	N./S.E.	N.	W./N.	0	0	0	26
o	o	o,v	L	l	M	9	9	9	fr-cu/cu-nb	a-st/cu/c-n/nb	a-st/cu/cu-nb	N.E./S.E.	N.E.	N.E.	0	0	5	27
o	o	bc,w	L	l	L	2/7	8	6/2	ci/cu/cu-nb	a-st/cu-nb	ci/cu	N./E.	N.E.	W./N.	1	0	0	28
bc,v	bc	c	M	L	l	3/3	2/4	3/4	ci/cu/cu-nb	ci/fr-cu/cu-nb	ci/cu-nb	N.E./E.	W./N.E.	N./N.N.E.	0	0	0	29
bc	bc	bw	L	l	L	2/3	2/4	3	ci/ci-cu/cu-nb	ci/cu/cu-nb	fr-cu	W./E.	W.N.W./E.	E.N.E.	0	0	1	30
bc	o,t,d	bc	L	H	K	2/3	10	2/3	ci-cu/cu/cu-nb	nb	ci-st/cu/cu-nb	E./E.S.E.	E.	N.W./E.	0	5	1	31

INTERNATIONAL POLAR YEAR DURING FEBRUARY, 1933, AT 1H., 7H. AND 19H., G.M.T.

o,do	bc	bw	L	l	L	3/7	1/3	2/1	ci-st/cu-nb	ci/cu-nb/nb	ci/ci-st/cu	S./E.	N.E./N.	N.W./N.	1	1	1	1
bc	o,d	o	L	l	L	5	10	10	fr-cu/cu/cu-n	nb	a-st/cu-nb	E.	N.	N.	0	1	2	2
o,d	o,d	bw	L	l	L	10	10	4	fr-cu/cu/cu-nb	nb	ci/ci-cu	N.E.	N.E.	N.	0	2	1	3
bc	o	bvw	L	l	L	5	2/7	1/2	fr-cu/cu/cu-n	ci-cu/st/cu-nb	ci/nb	N.W.	N.E./N.	E./N.	0	1	1	4
bc,v	b,v	b,w	L	m	L	2/2	1/2	1/2	ci/ci-st/cu/cu-nb	ci/ci-cu/cu/cu-nb	ci/cu	N./NE.	E./W.	S./N.E.	0	1	1	5
bc	b	bw	L	l	L	2/3	1/2	2	ci/ci-cu/cu/cu-nb	ci/cu/cu-nb	ci/ci-st	E./N.E.	S./N.E.	E.	0	0	1	6
bc	bc	bc	L	l	K	3/2	4/2	4/1	ci/ci-cu/cu	ci-st/cu/cu-nb	ci/ci-cu/cu	N.W./N.E.	E./N.E.	N.E./N.E.	0	0	1	7
cd	b	bw	L	l	K	2/5	3	1/2	ci-cu/fr-cu/cu	cu/cu-nb	ci-st/cu/cu-nb	E./E.	N.E.	E./N.E.	0	0	1	8
bc	b	c	L	l	K	5	2	8	fr-cu/cu-nb	fr-cu/cu	cu/cu-nb/nb	N.E.	N.E.	N.	0	0	1	9
c	c	bw	L	l	L	2/5	2/5	1/2	a-cu/cu/cu-nb	ci/ci-cu/cu/cu-nb	ci-cu/cu	—/N.E.	E./N.E.	N./N.	0	0	1	10
bc	o	bv	L	k	M	2/3	9	1/1	ci/ci-cu/cu/cu-nb	cu/cu-nb	ci/cu	S.E./S.W.	W.	N./N.W.	0	0	1	11
bv	od	bv	L	k	M	3	10	3	cu/cu-nb	nb	ci/ci-st	N.W.	N.E.	N.	0	2	1	12
..	otld.	b	..	K	L	..	10	1/2	....	nb	ci/ci-cu/cu	....	N.	N/N.	0	2	1	13
bc,v	o	c,v	M	l	M	3/3	9	2/6	ci/ci-cu/cu/cu-nb	cu/cu-nb/nb	ci-cu/cu/cu-nb/nb	W./E.	W.	N./N.E.	0	0	2	14
..	otld	b	..	k	L	..	10	2/1	....	cu/nb	ci/ci-st/cu	....	N.	E./N.	0	1	1	15
..	ov	ov	..	m	M	..	4/5	10	....	ci/ci-cu/cu/cu-nb	a-st	....	N.E./N.	....	0	0	1	16
ov	ov	ov	M	m	M	9	9	9	fr-cu/cu/cu-nb	fr-cu/fr-nb	st/cu	N.E.	N.	N.E.	0	1	1	17
bc,y	ov	od	M	m	K	2/4	9	10	ci-cu/cu/cu-nb	st/cu/cu-nb	nb	E./N.	N.	W.	0	1	2	18
ov	ov	o	M	m	K	10	9	10	a-st/cu-nb/nb	fr-cu/nb	nb	N.E.	N.E.	N.E.	1	0	1	19
odtl	o	od	K	l	L	10	10	10	nb	cu/cu/nb	cu/cu-nb/nb	E.	N.E.	W.	1	0	2	20
o	c	cv	L	l	M	10	6/2	8	fr-cu/cu-nb/nb	ci/ci-cu/cu/cu-nb	cu/cu-nb/nb	W.	S.W./S.W.	E.	0	0	1	21
bcv	bc	op	M	l	K	2/3	1/3	10	ci-cu/cu/cu-nb	ci/ci-cu/cu/cu-nb	cu-nb/nb	N.E.	E./E.	E.	1	0	1	22
bc	od	b	I	j	K	2/3	10	1/2	ci/ci-cu/cu/cu-nb	fr-nb	ci/cu/cu-nb	E./N.	E.	E./E.S.E.	1	1	0	23
bcz	o	op	I	k	K	5	9	10	fr-cu/cu/cu-nb	cu/cu-nb/nb	fr-nb	E.	S.E.	S.	1	0	1	24
oq	od	od	L	k	J	10	10	10	fr-cu/cu/cu-n/nb	nb	nb	S.E.	S.	W.	0	2	2	25
od	o	b	I	k	L	10	9	2/1	nb	cu/cu-nb/nb	ci/cu	W.	N.	N./N.	1	2	1	26
od	o	od	L	l	L	10	10	10	fr-cu/cu/cu/nb	cu/nb	nb	N.E.	N.E.	N.	0	2	2	27
oqrz	or	od	I	k	L	10	10	10	fr-cu/cu	nb	nb	N.E.	N.	N.	1	2	2	28

ADDITIONAL METEOROLOGICAL OBSERVATIONS AT SUVA, FIJI, IN CONNECTION WITH THE SECOND

Greenwich Date.	Attached Thermometer and Barometer as read.						Air Pressure at Mean Sea Level in the Units of Measurement.			Temperature (Degrees F.) Dry Bulb.			Temperature (Degrees F.) Wet Bulb.			Temperature (Degrees F.) Dry Bulb.			Temperature (Degrees F.) Wet Bulb.			Humidity. Dew Point.			Humidity. Vapour Pressure.			Humidity. Percentage.			Wind Direction and Force (Beaufort S Direction (True).	Force (0–12).	Direction (True).	Force (0–12).	Direction (True).
	1h.			7h.			19h.			1h.			7h.			19h.			1h.			7h.			19h.			1h.			7h.			19h.
	°	″	°	″	°	″	″	″	″	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.	mb.										
1	77	30·120	78	30·127	78	30·104	29·938	29·942	29·919	75·5	74·0	76·4	75·4	76·8	74·0	74	75	73	28·5	29·2	27·3	93	95	88	E.N.E.	2	N.W.	2	E.
2	80	30·138	80	30·143	75	30·154	29·948	29·956	29·966	83·0	75·0	77·0	73·0	71·6	69·6	71	71	69	26·1	26·0	24·2	68	82	90	E.	3	E.S.E.	2	N.XW.
3	78	30·114	79	30·100	76	30·106	29·929	29·912	29·927	79·0	74·5	77·4	74·4	74·0	72.8	72	73	72	27·2	27·3	27·3	81	86	94	S.	3	Calm	0	Calm
4	82	30·094	81	30·066	78	30·082	29·897	29·873	29·897	84·0	77·0	78·6	75·0	79·0	77·6	74	74	77	28·6	28·6	31·6	72	84	94	E.N.E.	2	N.E.	1	Calm
5	81	30·030	81	29·994	76	30·067	29·837	29·801	29·888	83·0	77·5	77·0	73·0	71·6	69·0	75	71	68	29·8	26·0	23·5	77	82	87	E.	2	NEXN	2	N.
6	81	30·042	82	30·064	80	30·123	29·849	29·867	29·933	83·0	74·5	78·5	74·8	77·0	73·0	70	74	71	25·4	28·6	26·0	65	84	82	S.XE.	1	Calm	0	Calm
7	81	30·068	81	30·100	78	30·070	29·875	29·907	29·885	82·0	76·4	76·8	75·8	75·0	73·0	74	76	72	28·7	30·2	26·8	77	95	90	N.N.E.	2	N.N.E.	2	Calm
8	81	30·030	77	30·057	78	30·096	29·837	29·875	29·911	79·8	77·2	75·8	74·0	73·4	73·0	76	73	72	31·1	27·8	27·0	89	92	98	W.S.W.	5	W.N.W.	1	S.S.E.
9	77	30·090	75	30·094	75	30·122	29·908	29·917	29·945	77·0	73·0	74·4	73·4	72·2	71·6	71	72	71	26·0	27·3	26·1	82	95	97	S.S.E.	3	S.E.	2	N.
10	77	30·122	76	30·110	74	30·122	29·940	29·931	29·948	76·0	72·0	74·8	70·4	71·6	70·0	70	68	70	25·0	23·5	24·8	82	79	92	E.XS.	3	E.	1	Calm
11	77	30·132	77	30·130	76	30·174	29·950	29·948	29·995	77·8	73·5	76·8	71·8	74·8	70·4	71	66	68	26·2	21·9	23·5	81	69	80	E.XN.	3	S.S.E.	2	E.S.E.
12	76	30·182	76	30·205	75	30·200	30·003	30·026	30·023	76·0	71·0	73·0	71·0	73·8	72·2	68	70	72	23·7	26·4	26·6	78	90	92	NEXN	2	E.N.E.	1	E.N.E.
13	75	30·198	76	30·220	75	30·213	30·021	30·041	30·036	74·5	73·0	72·0	70·5	74·2	70·8	73	70	69	27·5	24·8	24·6	93	93	84	E.	4	E.S.E.	3	E.S.E.
14	75	30·204	76	30·206	75	30·220	30·027	30·027	30·043	75·2	70·0	75·0	68·8	74·2	67·2	67	66	63	22·8	21·5	19·5	78	72	68	S.E.	4	E.S.E.	3	E.S.E.
15	77	30·192	76	30·190	76	30·200	30·010	30·011	30·021	79·0	70·0	75·2	67·0	75·2	68·2	65	62	64	21·1	19·0	20·3	63	64	69	E.	4/5	E.	3/4	E.
16	79	30·192	78	30·162	75	30·166	30·004	29·977	29·989	81·0	72·5	76·0	67·6	72·0	67·0	68	62	64	23·5	19·2	20·4	65	63	76	E.	4	E.N.E.	3	Calm
17	80	30·116	79	30·106	76	30·128	29·926	29·918	29·949	83·0	72·5	76·8	72·8	72·0	71·4	67	71	71	22·6	26·0	26·1	59	82	97	E.	3	N.E.	2	E.N.E.
18	79	30·088	78	30·064	76	30·118	29·900	29·879	29·939	79·2	74·0	76·5	71·0	74·4	70·4	72	68	68	26·5	23·9	23·3	78	76	81	E.N.E.	3/4	E.N.E.	4	Calm
19	81	30·092	78	30·104	76	30·145	29·899	29·919	29·966	82·0	73·8	74·0	72·0	72·0	70·6	70	71	70	25·1	25·9	24·8	67	90	93	E.N.E.	3	Calm	0	Calm
20	81	30·122	78	30·122	77	30·140	29·929	29·937	29·958	80·0	75·0	76·0	73·0	73·0	72·0	73	72	71	27·4	26·4	26·4	79	86	95	E.XN.	3	E.N.E.	3	Calm
21	81	30·151	78	30·123	75	30·136	29·958	29·938	29·959	75·4	72·0	75·0	72·0	71·0	70·0	70	71	69	24·8	25·5	24·6	84	86	95	N.E.	2	Calm	0	Calm
22	81	30·120	80	30·100	77	30·100	29·927	29·910	29·818	84·0	74·0	76·6	73·6	72·8	71·0	79	73	70	24·2	27·3	25·0	61	86	91	N.XE.	2	Calm	0	N.
23	81	30·072	80	30·067	78	30·042	29·879	29·877	29·857	84·0	75·0	77·0	75·0	73·0	72·0	71	74	71	25·7	28·8	26·4	64	91	95	E.XN.	3	N.E.	1	E.N.E.
24	78	30·054	77	30·013	76	29·982	29·869	29·831	29·803	76·2	75·0	76·0	74·0	74·0	73·0	75	73	72	29·2	27·8	27·3	94	91	95	Calm	0	Calm	0	Calm
25	78	29·988	78	29·986	78	30·034	29·803	29·801	29·849	80·5	76·0	77·4	74·8	77·0	75·0	75	73	74	29·2	28·0	28·8	81	88	91	Calm	0	N.N.E.	2	Calm
26	82	30·016	80	30·073	79	30·123	29·819	29·883	29·935	84·0	79·0	76·0	74·4	74·2	73·8	77	74	73	31·6	28·5	28·0	79	93	98	Calm	0	Calm	0	Calm
27	79	30·094	80	30·077	79	30·109	29·906	29·887	29·921	79·2	75·5	77·0	75·6	72·0	70·0	74	75	69	28·6	29·5	24·2	84	94	90	S.S.E.	1	Calm	0	Calm
28	80	30·018	81	30·068	77	30·086	29·828	29·875	29·907	80·0	76·0	74·0	72·4	73·0	72·0	74	72	71	28·9	26·6	26·4	83	92	95	S.	2	E.N.E.	2	Calm
29	82	30·071	..	..	76	30·128	29·874	..	29·949	84·4	76·2	..	..	73·0	72·0	72	..	71	27·1	..	26·4	67	..	95	S.	2	....	—	Calm
30	81	30·116	..	..	77	30·197	29·921	..	30·015	83·0	77·0	..	..	72·8	72·0	74	..	71	29·0	..	26·4	75	..	96	E.	1	....	—	Calm
31	81	30·170	81	30·140	79	30·228	29·977	29·947	30·040	84·0	78·0	80·0	76·0	76·0	74·4	75	74	74	30·1	28·9	28·5	76	83	93	E.	2	N.E.	1	Calm

ADDITIONAL METEOROLOGICAL OBSERVATIONS AT SUVA, FIJI, IN CONNECTION WITH THE SECOND

	°	″	°	″	°	″	″	″	″	°	°	°	°	°	°	°	°	°	mb.	mb.	mb.								
1	82	30·196	81	30·186	77	30·191	29·999	29·993	30·009	83·5	77·0	78·0	75·0	78·2	77·2	75	74	77	29·3	28·3	31·2	74	86	95	E.	3	Calm	0	Calm
2	81	30·188	81	30·187	80	30·200	29·985	29·994	30·010	84·0	77·0	76·6	75·8	76·8	73·0	75	76	71	28·6	30·2	26·0	72	96	83	E.S.E.	2	E.S.E.	2	S.E.
3	82	30·178	79	30·164	76	30·217	29·981	29·976	30·038	79·2	74·8	76·0	70·0	71·0	68·0	72	67	66	27·2	22·4	22·0	81	73	85	E.S.E.	3	E.S.E.	3	N.XW.
4	81	30·185	78	30·171	74	30·211	27·992	29·992	30·037	80·0	75·0	74·0	70·0	70·0	68·3	73	68	67	27·4	23·3	22·5	79	81	90	E.	2	E.	1	N.
5	79	30·218	78	30·194	74	30·187	30·030	30·008	30·013	79·0	74·0	76·0	69·0	69·0	67·0	72	65	66	26·5	21·1	21·7	79	69	90	E.	3	E.	2	N.
6	79	30·174	76	30·155	74	30·145	29·986	29·976	29·971	79·0	69·2	71·8	68·8	71·0	69·6	63	67	69	19·8	22·9	24·0	60	85	93	E.XN.	3	Calm	0	Calm
7	78	30·124	76	30·125	76	30·116	29·939	29·946	29·937	79·0	73·4	76·4	72·4	72·2	71·2	71	70	71	25·7	25·0	25·5	76	82	95	E.XN.	3	Calm	0	N.E.
8	76	30·124	77	30·050	77	30·022	29·945	29·868	29·840	73·8	72·8	74·6	73·6	74·4	73·0	72	74	72	27·3	28·2	26·6	95	95	93	S.W.	5	Calm	0	Calm
9	82	29·994	77	30·024	79	30·043	29·797	29·842	29·855	82·0	77·0	74·2	72·8	77·0	74·6	75	72	73	29·5	26·6	28·0	79	93	89	N.	3	N.	1	N.
10	80	30·032	76	30·047	77	30·042	29·842	29·868	29·860	82·0	76·0	75·0	73·0	74·0	71·6	73	72	70	28·0	26·8	25·2	75	91	88	N.	2	N.W.	1	N.
11	82	30·025	82	30·038	77	30·083	29·832	29·831	29·901	82·0	76·0	79·0	76·6	73·0	71·0	73	75	70	28·0	30·1	25·0	75	89	90	S.	2	S.	1	Calm
12	80	30·034	79	30·071	76	30·134	29·844	29·883	29·935	79·0	75·0	76·4	73·4	74·0	72·6	73	72	72	27·9	26·4	26·6	83	86	93	S.	1	S.	1	N.N.W.
13	79	29·992	76	30·130	76	30·162	29·804	29·951	29·983	78·5	72·2	73·0	70·0	73·0	70·6	69	68	69	24·0	23·7	24·4	73	86	88	S.XE.	2	S.	3	Calm
14	78	30·166	78	30·142	76	30·150	29·981	29·957	29·971	79·2	72·0	75·8	71·0	72·3	72·0	68	68	71	23·7	23·7	26·4	70	78	94	E.	2	E.	2	E.N.E.
15	77	30·098	74	29·991	73	30·090	29·917	29·917	29·920	77·0	74·0	71·0	70·0	70·0	65·0	73	69	62	27·3	24·6	18·9	86	95	75	E.	3	S.E.	2	E.
16	73	30·040	72	30·011	72	30·000	29·870	29·843	29·832	70·0	69·0	68·0	67·0	70·0	66·6	69	66	64	23·8	22·2	20·7	95	95	83	E.N.E.	2	S.	1	S.W.
17	75	29·994	74	29·985	74	30·046	29·817	29·811	29·867	76·0	68·0	73·0	65·0	71·0	65·0	63	60	61	19·8	17·4	18·4	65	64	71	S.E.XE.	4	E.S.E.	3	E.S.E.
18	74	30·052	74	30·043	73	30·088	29·878	29·869	29·918	73·0	66·6	71·6	69·0	69·0	66·0	62	68	64	19·3	23·5	20·5	71	87	85	E.S.E.	3	E.	2	Calm
19	74	30·062	74	30·055	73	30·069	29·888	29·881	29·899	74·2	68·0	73·0	67·0	71·0	69·0	64	63	68	20·7	19·9	23·3	72	72	90	E.XN.	2	N.E.	1	Calm
20	75	30·052	75	30·070	76	30·056	29·875	29·893	29·877	76·0	73·0	73·0	71·0	76·0	74·0	72	70	73	26·4	25·0	27·8	86	90	91	N.XE.	1	Calm	0	N.
21	78	30·096	77	30·074	76	30·113	29·911	29·902	29·934	80·0	75·0	76·4	75·0	74·0	73·0	73	74	72	27·4	28·5	27·3	79	93	95	S.XE.	1	S.W.	1	Calm
22	78	30·112	77	30·118	75	30·165	29·927	29·936	29·988	78·5	75·2	74·8	73·2	71·0	69·0	74	73	68	28·6	27·5	23·3	86	92	90	S.XW.	3	S.S.E.	4	E.S.E.
23	76	30·168	76	30·184	74	30·223	29·989	30·005	30·049	77·2	73·8	73·4	69·6	71·2	65·0	72	67	61	26·6	22·4	18·4	85	82	71	E.	2	S.S.E.	2	E.S.E.
24	76	30·224	76	30·242	75	30·239	30·045	30·063	30·062	78·0	71·0	73·8	68·8	73·0	65·0	67	66	60	22·8	22·0	17·5	70	77	65	E.	3	E.N.E.	3	S.E.
25	76	30·234	76	30·228	75	30·269	30·055	30·049	30·092	78·0	66·0	74·4	67·0	72·2	66·0	58	62	62	16·5	18·9	19·2	50	66	71	N.N.E.	3	E.N.E.	2	N.
26	77	30·258	76	30·260	75	30·318	30·076	30·081	30·141	78·0	68·0	74·4	67·8	73·0	68·0	62	64	65	18·9	20·1	23·7	58	70	77	N.E.	4	N.N.E.	2	N.N.E.
27	79	30·302	77	30·263	73	30·240	30·114	30·081	30·070	80·0	69·0	72·2	68·2	68·0	64·2	62	66	61	19·3	21·6	18·6	55	80	80	E.N.E.	3	N.	1	N.
28	78	30·232	77	30·144	75	30·140	30·047	29·962	29·963	74·2	69·8	75·6	69·6	71·0	70·0	67	67	69	22·6	22·4	24·6	79	73	95	E.N.E.	2	E.N.E.	2	Calm
29	78	30·120	75	30·120	74	30·140	29·935	29·943	29·966	78·0	71·0	72·0	68·6	71·8	70·0	67	66	69	22·8	22·2	24·2	70	83	91	E.N.E.	2	E.N.E.	3	N.N.E.
30	77	30·130	77	30·150	75	30·177	29·948	29·968	30·000	77·5	73·2	75·0	72·0	73·4	72·0	71	71	71	26·2	25·5	25·7	81	86	95	E.XN.	3	N.E.	2	N

Weather (Beaufort Letters).			Visibility.			Cloud. Amount (0–10)			Cloud. Form.			Cloud. Direction whence coming.			State of Ground.			Greenwich Date.
1h.	7h.	19h.	1h.	7h.	19h.	1h.	7h.	19h	1h.	7h.	19h.	1h.	7h.	19h.	1h.	7h.	19h	

INTERNATIONAL POLAR YEAR DURING MAY, 1933, AT 1H., 7H. AND 19H., G.M.T.

o	o	o	L	k	L	10	10	1/8	cu/cu-nb	cu-nb/nb	ci-cu/cu-nb/nb	N.E.	N.	S.E./E.	2	1	1	1
bc	bcv	bcw	L	m	L	2/3	4/1	4	ci/ci-cu/cu/cu-nb	ci-st/cu-nb	ci/ci-st/ci-cu	N./N.E.	E./S.E.	N.	1	0	0	2
bc	b	bc	L	l	L	2/3	1/1	4	ci-cu/cu-nb	ci/cu	cu/cu-nb	S./S.	E./S.E.	E.	1	0	1	3
bc	b	bcw	L	l	M	5	3	4	fr-cu/cu-nb	ci-cu	fr-cu	N.E.	S.W.	N.E.	1	0	1	4
bc	b	bw	L	l	M	2/3	1/2	0	ci/ci-cu/cu/cu-nb	ci-cu/cu-nb	....	E./E.	N.E./N.E.	....	1	1	5	5
b	b	o	M	l	L	1/2	3	9	ci-cu/cu-nb	ci/ci-cu	fr-cu/cu-nb	W./S.	N.E.	N.E.	0	0	0	6
o	o	bcw	L	l	L	10	10	1/3	nb	nb	ci/fr-cu	N.E.	N.E.	N.E./N.E.	1	2	1	7
oz	o	orz	I	l	H	10	10	10	nb	nb	nb	W.	N.W.	S.E.	0	2	2	8
o	or	o	L	I	K	10	10	10	cu/cu-nb	nb	nb	S.	S.E.	N.	1	2	2	9
odz	o	o	I	l	L	10	10	10	nb	nb	nb	E.	E.	N.E.	2	1	1	10
o	orz	o	L	j	L	10	10	10	cu/cu-nb	nb	nb	N.E.	S.E.	S.E.	1	2	1	11
,	od	o	L	l	K	10	10	10	cu/cu-nb	nb	nb	E.	N.E.	E.	1	1	1	12
ozd	od	o	I	k	L	10	10	10	nb	nb	nb	E.	S.E.	S.E.	2	1	0	13
o	o	o	L	l	M	10	10	9	nb	nb	a-cu/cu-nb/nb	S.E.	S.E.	S.E.	1	1	0	14
c	o	c	L	k	K	4/3	9	7	ci-cu/cu-nb	cu/cu-nb	f-cu/cu-nb	W./N.E.	E.	E.	1	0	0	15
o	bc	o	L	l	L	9	4	9	cu/cu-nb	cu/cu-nb	cu/cu-nb	N.E.	N.E.	N.	0	0	0	16
by	c	odz	L	l	G	2	7	10	cu/cu-nb	cu/cu-nb	nb	E.	N.E.	N.E.	0	0	1	17
oRq	oz	o	L	i	L	10	10	6/3	cu/cu-nb	cu-nb	ci/ci-st/f-cu	E.	N.E.	N./N.E.	1	1	0	18
bc	bc	bw	L	l	K	5	4	1/1	cu/cu-nb	cu/cu-nb	ci/cu	N.E.	N.E.	N./N.E.	1	1	5	19
bc	o	o	L	l	K	3	10	10	cu/cu-nb	cu/cu-nb	nb	N.E.	N.E.	N.E.	1	1	2	20
o	bc	bw	L	l	L	10	2/2	1	nb	ci/cu/cu-nb	cu	N.E.	N.E./N.E.	N.E.	1	1	1	21
b	b	bc	L	l	L	3	3	2/2	cu-nb	cu	ci/cu/cu/cu-nb	N.E.	N.E.	S.W./E.	1	0	5	22
bc	b	od	L	l	L	5	2	10	ci/ci-cu	cu-nb	nb	N.E.	N.	N.E.	0	0	1	23
o	b	o	L	l	M	10	2	9	cu/cu-nb	cu-nb	a-st	N.	N.	N.E.	1	0	1	24
o	b	b	L	m	L	10	2	1/1	cu/cu-nb	cu/cu-nb	ci-cu/cu-nb	N.E.	N.E.	N./N.	1	0	0	25
bc	o	oR	L	l	G	5	10	10	cu/cu-nb	nb	nb	N.W.	N.E.	S.	1	2	2	26
o	o	b	L	l	L	10	10	0	cu/cu-nb	nb	....	N.E.	....	....	1	2	1	27
c	oR	b	L	g	L	4/3	10	2	ci-cu/cu-nb	nb	cu	W./W.	N.E.	....	1	2	2	28
bc	..	b	M	..	L	6	..	1/1	cu/cu-nb	....	ci/cu	S.	....	N.E./N.E.	0	—	1	29
bc	..	c	L	..	L	5/3	..	4/3	ci/ci-cu/cu-nb	....	ci-st/cu-nb	N./N.E.	....	N.E./E.	1	—	5	30
o	o	b	L	l	L	10	4/4	1/2	cu/cu-nb	ci-cu/cu-nb	ci/cu-nb	N.E.	N.E./N.E.	W./E.	1	1	5	31

INTERNATIONAL POLAR YEAR DURING JUNE, 1933, AT 1H., 7H. AND 19H., G.M.T.

bc	b	bw	L	l	L	5	1	1	ci/ci-cu	cu	cu	E.	N.E.	....	0	0	5	1
bc	c	bc	L	l	L	6	8	5	ci/ci-cu	cu-nb	cu/cu-nb	E.	E.	S.E.	0	0	1	2
c	o	o	L	l	L	7	10	9	cu/cu-nb	cu/cu-nb	cu/cu-nb	S.E.	E.	E.	0	0	0	3
o	o	ovw	L	l	M	9	10	9	cu/cu-nb	cu/cu-nb	cu-nb	E.	E.	S.E.	0	0	5	4
o	o	bc	L	l	L	9	10	3/2	ci/ci-cu	cu/cu-nb	ci-cu/cu	E.	E.	S./N.	0	0	5	5
o	b	o	L	l	L	5/3	1/2	5/4	ci/ci-cu/cu/cu-nb	ci-st/f-cu	ci/ci-cu/cu-nb/n	E./N.E.	—/E.	N.E./E.	0	0	5	6
o	o	or	L	k	I	9	10	10	cu/cu-nb	cu-nb/nb	nb	E.	N.E.	N.E.	0	1	2	7
od	o	c	L	l	L	10	10	3/5	cu-nb/nb	cu/cu-nb	ci/ci-cu/f-cu/cu	N.	N.E.	N.W./N.W.	1	1	5	8
bc	c	o	L	l	L	6	5/2	10	ci/ci-cu	ci/ci-cu/cu	a-st/nb	E.	W/N.	N.W.	0	0	5	9
o	o	bw	L	l	L	9	10	0	ci-cu	cu-nb/nb	....	N.E.	N.W.	....	0	1	5	10
bc	c	bw	L	l	L	5	7	1	cu/cu-nb	cu/cu-nb	cu	N.E.	S.W.	....	0	1	5	11
bc	od	o	L	l	L	5	10	9	ci/ci-cu	nb	cu/cu-nb	N.W.	S.	N.E.	1	1	1	12
c	o	c	L	l	L	3/4	10	7	ci/ci-cu/cu-nb	nb	cu/cu-nb	W./S.E.	S.	S.E.	1	0	0	13
o	b	o	L	l	L	9	1/2	1/9	cu-nb	ci-cu/cu-nb/nb	ci/ci-cu/cu-nb/nb	E.	E./E.	—/E.	0	0	2	14
oz	or	ov	I	k	M	10	10	10	cu-nb	nb	cu-nb/nb	E.	S.E.	S.E.	1	2	2	15
odz	oR	cv	H	g	M	10	10	1/8	cu/nb	nb	ci-cu/cu-nb/nb	E.	S.	W./S.	1	2	1	16
b	bc	bc	L	l	L	3/1	5	5	ci-cu/cu/cu-nb	cu-nb/nb	cu/nb	W./E.	S.E.	S.E.	1	0	0	17
or	o	o	L	l	L	10	9	10	nb	cu-nb/nb	nb	S.E.	S.E.	E.	1	0	0	18
o	o	od	L	l	K	10	10	10	cu/cu-nb	cu-nb/nb	nb	E.	E.	E.	1	0	1	19
o	od	c	L	k	L	10	10	4/4	cu/nb	nb	ci/ci-cu/f-cu	N.	....	W./N.	1	1	1	20
o	o	bw	L	l	L	10	10	1/1	cu/nb	a-st/nb	ci/ci-cu/cu	S.W.	S.W.	W./—	1	1	1	21
c	or	od	L	i	L	2/5	10	10	ci-cu/cu-nb	nb	nb	N.	S.E.	S.E.	1	1	1	22
bc	c	b	L	k	L	2/4	7	3	ci-cu/cu/cu-nb	cu/cu-nb	cu/cu-nb	E./E.	S.E.	S.E.	1	0	0	23
bc	o	o	L	l	L	2/3	10	10	ci-cu/cu-nb	cu/cu-nb	cu/cu-nb	W./E.	N.E.	S.E.	0	0	0	24
cy	o	o	L	l	L	8	10	10	a-cu/cu	cu/cu-nb	a-cu/cu-nb	N.E.	N.E.	N.E.	0	0	0	25
cy	o	o	L	l	L	8	10	9	cu/cu-nb	cu/cu-nb	cu/cu-nb	N.E.	N.E.	N.E.	0	0	0	26
cy	b	bw	L	l	L	3/4	3	1	ci-cu/cu-nb	cu/cu-nb	cu	S.W./N.E.	N.	N.E.	0	0	5	27
b	o	bc	L	l	L	5	10	6/1	ci/ci-cu	cu/cu-nb	ci/ci-st/cu	N.E.	N.E.	—/—	0	0	1	28
c	odz	b	L	i	L	7	10	3	cu/cu-nb	nb	cu/cu-nb	N.E.	N.E.	N.E.	1	1	1	29
c	bc	c	L	l	L	8	5	8	cu-nb	cu/cu-nb	cu-nb/nb	E.	N.E.	N.E.	1	1	1	30

Greenwich Date.	Attached Thermometer and Barometer as read.			Air Pressure at Mean Sea Level in the Units of Measurement.			Temperature (Degrees F.) Dry Bulb.	Wet Bulb.	Dry Bulb.	Wet Bulb.	Dry Bulb.	Wet Bulb.	Humidity. Dew Point.			Vapour Pressure.			Percentage.			Wind Direction and Force (Beaufort Sc Direction (True).	Force (0–12).	Direction (True).	Force (0–12).	Direction (True).
	1h.	7h.	19h.	1h.	7h.	19h.	1h.	7h.	19h.	1h.	7h.	19h.	1h.	7h.	19h.	1h.	7h.	19h.	1h.	7h.	19h	1h.		7h.		19h.

ADDITIONAL METEOROLOGICAL OBSERVATIONS AT SUVA, FIJI, IN CONNECTION WITH THE SECOND

	°	°	°	″	°	″	″	″	″	°	°	°	°	°	°	°	°	°	mb.	mb.	mb.							
1	79	30·180	76	30·164	76	30·150	29·992	29·985	29·971	79·0	73·0	75·0	70·0	73·0	72·0	59	67	71	25·1	22·8	26·4	74	78	95	E.N.E.	3	Calm	..	Calm
2	80	30·111	78	30·090	75	30·100	29·921	29·905	29·925	79·0	77·0	75·0	73·2	71·0	70·4	76	72	70	30·8	26·8	25·3	91	91	97	N.N.E.	2	Calm	..	Calm
3	80	30·060	77	30·058	75	30·100	29·870	29·876	29·925	81·0	74·0	75·0	72·0	70·6	69·6	71	71	69	25·6	25·5	24·6	71	86	95	N.N.E.	2	Calm	..	Calm
4	78	30·096	78	30·073	74	30·136	29·911	29·888	29·962	80·5	73·0	75·0	72·0	70·4	69·4	70	71	69	24·9	25·5	23·8	69	86	95	N.	1	Calm	..	Calm
5	77	30·142	77	30·124	73	30·162	29·960	29·942	29·992	77·2	73·0	75·0	72·0	69·0	67·8	71	71	67	26·0	25·5	22·9	77	86	94	S.XE.	1	E.	1	N.XW.
6	76	30·146	76	30·150	73	30·173	29·967	29·971	30·003	77·2	72·0	75·0	70·0	72·0	69·0	69	67	67	24·6	22·8	22·9	77	78	85	E.S.E.	1	S.XE.	2	S.E.
7	76	30·194	74	30·193	73	30·217	30·015	30·019	30·047	78·0	69·0	71·4	64·8	70·0	65·0	64	58	62	20·2	16·7	18·9	62	64	75	S.S.E.	3	E.XS.	2	E.S.E.
8	75	30·238	75	30·200	72	30·200	30·061	30·023	30·032	76·5	65·0	71·0	63·6	70·0	62·0	58	58	56	16·3	16·7	15·4	61	65	62	E.S.E.	3/4	E.S.E.	2/3	E.
9	74	30·206	73	30·183	72	30·180	30·032	30·013	30·022	75·0	66·0	70·8	62·0	69·0	60·6	60	55	54	17·8	15·0	14·2	61	58	60	E.XS.	4	E.S.E.	3	E.XS.
10	75	30·152	75	30·150	70	30·172	29·947	29·073	30·006	77·0	66·4	72·0	65·0	65·0	63·0	60	61	62	17·5	18·0	18·8	55	67	88	E.	2	Calm	..	Calm
11	74	30·162	74	30·150	71	30·186	29·988	29·976	30·021	76·0	67·0	72·2	67·6	66·0	64·0	61	65	63	18·6	21·0	19·5	61	78	88	N.N.W.	2	Calm	..	Calm
12	73	30·190	73	30·180	72	30·200	30·020	30·010	30·032	74·0	70·0	70·0	66·0	70·0	63·0	68	63	58	23·3	20·0	16·5	81	80	66	S.XE.	2	Calm	..	S.E.
13	74	30·202	74	30·184	72	30·176	30·028	30·010	30·008	74·8	66·0	70·6	64·0	68·6	63·0	59	60	60	17·1	17·8	17·6	60	68	72	S.E.	3	E.S.E.	1	E.
14	73	30·182	74	30·156	72	30·162	30·012	29·992	29·994	74·4	67·0	70·4	63·8	69·0	63·0	62	59	59	18·9	17·1	17·0	66	68	71	E.S.E.	2	E.	2	N.N.E.
15	75	30·176	75	30·136	70	30·194	29·999	29·959	30·032	77·0	66·5	72·0	64·8	64·8	62·4	60	61	61	17·5	18·0	18·2	56	66	87	E.N.E.	3	N.E.	1	N.N.W.
16	76	30·186	75	30·171	71	30·187	30·007	29·994	30·022	80·0	69·8	71·8	64·6	67·4	64·8	64	61	63	20·6	18·0	18·9	58	66	87	E.	3	N.	1	N
17	75	30·168	74	30·164	72	30·198	29·991	29·990	30·030	78·0	67·0	72·0	64·0	68·6	64·0	60	59	62	17·7	16·8	18·7	54	63	77	E.XS.	2	N.E.	1	Calm
18	77	30·188	76	30·150	75	30·184	30·006	29·941	30·007	79·0	66·0	75·0	68·2	73·6	71·8	57	64	71	15·6	20·3	25·9	48	70	91	N.E.XN.	2	E.N.E.	2	N.N.E.
19	79	30·168	77	30·171	74	30·221	29·980	29·989	30·047	80·0	73·0	75·2	72·8	72·4	69·6	69	71	67	16·5	26·2	21·6	70	90	86	N.E.XN.	3	N.N.E.	2	N.N.E.
20	79	30·224	78	30·200	73	30·193	30·036	30·015	30·023	81·0	71·0	74·0	68·6	68·8	65·8	66	65	64	21·5	21·4	20·5	60	75	84	N E.XN.	3	N.E.	1	Calm
21	78	30·196	78	30·143	74	30·111	30·011	29·958	29·937	79·0	70·0	73·0	68·8	68·0	67·0	65	67	66	21·1	22·4	22·2	63	80	95	E.XN.	3	N.E.	1	Calm
22	79	30·096	79	30·056	76	30·077	29·928	29·898	29·898	83·8	74·0	77·2	73·4	70·6	68·4	69	71	68	24·2	26·0	23·3	62	84	89	N.	2	W.S.W	4	Calm
23	78	30·091	74	30·068	76	30·150	29·906	29·894	29·971	77·8	72·4	72·8	70·4	73·6	70·0	70	69	69	24·8	24·4	23·9	76	88	83	S.XW.	3	S.	1	S.E.
24	76	30·166	75	30·160	74	30·227	29·987	29·983	30·053	76·0	70·0	73·4	68·0	72·0	67·0	67	64	64	22·4	20·5	20·4	73	75	76	E.XS.	3	S.S.E.	3	E.
25	75	30·242	74	30·237	73	30·281	30·065	30·063	30·111	75·5	67·5	72·0	67·0	72·0	66·8	63	64	64	19·8	20·4	20·4	63	76	75	E.N.E.	3	E.N.E.	4	E.
26	75	30·240	75	30·221	73	30·210	30·063	30·044	30·040	75·2	67·0	72·8	64·2	71·8	64·0	62	59	59	19·0	16·9	16·8	62	60	64	E N.E.	3	E.N.E.	3	N.E.
27	75	30·120	74	30·175	71	30·144	29·943	30·001	29·979	77·0	66·0	71·8	64·0	67·2	64·8	59	59	63	16·9	16·8	19·6	54	64	88	N.E.XN.	3	E.N.E.	2	Calm
28	..	..	74	30·092	72	30·134	..	29·918	29·966	..	..	70·8	66·8	69·0	66·4	..	65	65	..	20·8	21·1	..	80	87	....	..	E.N.E.	2	N.
29	76	30·141	75	30·140	74	30·192	29·962	29·963	30·018	78·8	71·2	72·4	67·8	70·0	65·0	68	65	62	23·0	21·0	18·9	67	78	75	E.	3	E.N.E.	2	E.
30	..	..	74	30·180	75	30·180	..	30·003	30·003	..	..	71·8	64·2	66·6	61·0	..	60	58	..	17·4	16·2	..	64	71	....	..	E.	2	N.
31	74	30·130	73	30·147	70	30·157	29·956	29·977	29·995	76·0	64·0	68·8	61·4	66·0	62·0	55	56	59	15·0	15·3	17·2	49	63	79	E.N.E.	3	Calm	0	N.

ADDITIONAL METEOROLOGICAL OBSERVATIONS AT SUVA, FIJI, IN CONNECTION WITH THE SECOND

	°	″	°	″	°	″	″	″	″	°	°	°	°	°	°	°	°	°	mb.	mb.	mb.							
1	76	30·140	74	30·169	73	30·204	29·961	29·995	30·034	77·2	66·8	70·8	64·0	70·2	64·6	60	59	61	17·5	17·2	18·3	57	67	72	E.N.E.	4	N.XE.	1	N.
2	76	30·167	76	30·194	73	30·228	29·988	30·015	30·058	77·0	68·4	73·6	68·0	69·0	66·0	64	65	64	20·0	21·4	20·5	63	74	84	N.E.	4	N.N.E.	2	N.
3	79	30·214	76	30·205	72	30·220	30·026	30·026	30·052	79·8	68·0	71·4	67·4	68·8	66·2	61	65	65	18·0	20·8	21·1	52	80	87	N.E.	3	N.N.E.	1	N.
4	80	30·178	79	30·184	73	30·199	29·988	29·996	30·029	82·8	74·0	74·0	71·0	68·6	67·4	70	69	67	24·7	24·6	22·9	64	86	94	E.	3	Calm	0	N.XW.
5	77	30·186	79	30·186	76	30·208	30·004	29·998	30·029	79·0	71·6	75·8	72·8	69·4	67·4	68	72	66	23·0	26·4	21·7	69	86	90	S.S.E.	2	S.	4	N.N.W.
6	78	30·186	75	30·211	72	30·237	30·001	30·034	30·059	75·8	70·2	66·6	65·2	66·0	64·2	67	65	63	23·0	20·8	19·5	75	92	90	S.E.	3	S.E.	3/4	S.E.
7	73	30·238	72	30·231	71	30·248	30·068	30·063	30·083	67·8	66·2	67·2	65·0	67·6	66·0	66	64	66	21·5	20·2	22·2	92	89	95	E.XS.	3	N.XE.	1	N.
8	73	30·246	72	30·232	72	30·243	30·076	30·064	30·075	74·0	68·6	68·6	67·8	69·4	68·0	65	67	67	21·4	22·9	22·3	75	96	93	N.E.	3	NNE.	1	N.
9	77	30·232	76	30·204	..	..	30·050	30·025	..	78·6	72·0	74·2	70·6	..	..	69	69	..	24·4	23·9	..	71	83	..	E.N.E.	2	N.N.E.	2	....
10	81	30·142	80	30·154	75	30·147	29·949	29·964	29·970	86·2	75·0	77·2	73·4	72·0	70·0	70	71	69	24·8	26·0	24·2	58	83	90	N.	2	N.XE.	2	N.
11	77	30·156	77	30·190	74	30·254	29·974	30·008	30·080	76·6	74·0	76·0	70·0	70·4	68·8	72	67	67	27·1	22·4	22·5	88	73	91	S.W.XS.	3	S.W.XS.	4	S.E.
12	75	30·260	75	30·262	73	30·244	30·083	30·085	30·074	73·6	67·6	70·0	68·4	71·0	68·8	64	68	68	20·7	23·1	23·3	72	92	89	S.E.XE.	3	S.E.XE.	3	E.N.E.
13	75	30·212	73	30·220	73	30·192	30·035	30·050	30·022	72·5	68·5	70·0	68·6	70·8	69·6	66	68	69	21·6	23·1	24·6	80	93	94	E.N.E.	3	E.XS.	3	Calm
14	..	..	75	30·136	75	30·140	..	29·959	29·963	..	..	73·8	72·4	72·8	71·4	..	72	71	..	26·6	25·7	..	93	93	....	..	N.E.XN.	1	N.N.W.
15	78	30·093	..	..	74	30·125	29·908	..	29·951	77·4	75·0	..	..	72·0	70·7	73	..	68	28·0	..	23·5	89	..	89	E.XN.	4	....	..	Calm
16	79	30·121	78	30·127	76	30·184	29·933	29·942	30·005	78·8	74·8	76·8	74·8	72·0	71·0	73	74	71	27·9	28·8	25·5	82	91	95	S.S.W.	3	S.W.XS.	2	S.S.E.
17	76	30·143	75	30·178	74	30·185	29·964	30·001	30·011	76·8	72·0	74·0	72·0	71·6	67·8	69	71	66	24·6	25·9	21·6	78	90	81	S.W.	3	S.	3	S.E'ly
18	75	30·169	75	30·190	71	30·196	29·992	30·013	30·031	74·8	68·0	71·5	68·0	68·2	66·2	64	66	65	20·3	22·2	20·9	69	82	90	S.E'ly	2/3	E.XS.	1	Calm
19	77	30·193	76	30·216	73	30·220	30·011	30·037	30·050	79·0	71·4	72·8	68·2	68·0	66·0	68	66	65	23·0	21·8	20·9	67	78	90	E.S.E.	4	E.	2	N.
20	76	30·212	76	30·213	74	30·231	30·033	30·034	30·057	81·2	73·0	73·2	69·2	68·3	67·1	69	67	66	24·2	22·4	22·2	67	81	94	E.S.E.	4	N.N.E.	1	N.
21	77	30·216	77	30·216	73	30·228	30·034	30·034	30·058	78·2	72·0	74·4	71·0	68·5	66·5	71	69	66	25·5	23·9	21·7	78	84	90	E.XS.	4/5	E.	4/5	E.N.E.
22	78	30·200	78	30·224	75	30·220	30·015	30·039	30·043	80·0	73·4	76·0	71·5	70·2	69·0	70	69	69	25·3	24·4	23·8	72	80	94	E.	4	E.X.N.	2	N.E.
23	79	30·224	78	30·182	75	30·248	30·036	29·997	30·071	81·2	74·0	76·0	72·8	73·8	71·2	71	72	70	25·6	26·4	25·2	70	85	88	E.	5	E.	2	E.N.E.
24	79	30·240	77	30·210	75	30·260	30·052	30·028	30·083	80·2	73·0	77·0	71·2	73·0	72·4	69	68	72	24·6	23·3	27·0	70	75	97	E.	4	E.N.E.	2	E.N.E.
25	78	30·236	77	30·202	75	30·242	30·051	30·020	30·065	80·5	73·5	76·4	70·4	71·4	70·0	71	67	69	25·6	22·4	24·0	70	73	93	E.S.E.	4	E.N.E.	2	Calm
26	79	30·250	..	..	75	30·210	30·062	..	30·033	80·6	72·0	..	..	75·8	68·2	68	..	64	23·5	..	20·5	64	..	66	E.XN.	4/5	....	..	E.
27	78	30·190	..	..	..	..	30·005	..	..	78·0	71·0	..	..	..	..	67	..	..	22·8	..	..	70	..	..	E.	4	....	..	....
28	79	30·165	77	30·142	75	30·150	29·977	29·960	29·973	80·0	73·0	73·8	71·2	71·8	70·0	69	70	69	24·6	25·2	24·2	70	88	91	E.	4	N.E.XE.	2	N.N.E.
29	80	30·104	80	30·104	76	30·150	29·914	29·914	29·971	84·0	73·0	77·7	73·1	73·2	69·2	67	71	67	22·8	26·2	22·4	57	80	81	N.XW.	2	W.S.W.	3	S.XE.
30	75	30·149	74	30·160	73	30·160	29·972	29·986	29·990	71·6	67·4	71·6	64·6	70·0	62·9	66	61	58	21·6	18·0	16·5	79	67	66	S.S.W.	4	S.S.E.	2/3	S.XE.
31	75	30·172	74	30·165	70	30·178	29·995	29·991	30·016	75·0	65·0	70·6	63·2	66·4	64·0	58	58	62	16·6	16·7	18·9	56	64	87	S.E'ly	3	E.S.E.	2	N.

Weather (Beaufort Letters).			Visibility.			Clouds. Amount (0–10)			Clouds. Form.			Clouds. Direction whence coming.			State of Ground.			Greenwich Date.
1h.	7h.	19h	1h.	7h.	19h	1h.	7h.	19h	1h.	7h.	19h.	1h.	7h.	19h.	1h.	7h.	19h.	

INTERNATIONAL POLAR YEAR DURING JULY, 1933, AT 1H., 7H. AND 19H., G.M.T.

bc	b	bc	L	l	L	5	3	4	cu/cu-nb	cu/cu-nb	a-cu/cu-nb	N.E.	N.E.	N.E.	1	0	1	1
od	od	od	L	k	L	10	10	9	nb	nb	cu-nb/nb	N.E.	N.E.	E.	1	1	1	2
bc	b	bcw	L	l	L	5	2/1	6	ci/ci-cu	ci/cu	ci/ci-cu	E.	—/—	W.	1	0	1	3
bc	bc	ow	L	l	L	6	5	10	ci/ci-cu	ci/ci-cu	a-cu/cu	W.	W.	E.	1	0	1	4
c	o	o	L	l	L	8	10	9	fr-cu/cu	cu/cu-nb/nb	a-cu/cu-nb	N.W.	E.	N.E.	0	0	1	5
b	b	c	L	l	L	3	2	7	ci/ci-cu	cu/cu-nb	cu/cu-nb	N.E.	S.E.	S.E.	1	0	1	6
bc	b	b	L	l	L	5	..	2	ci/ci-cu	.....	cu/cu-nb	N.E.	....	E.	1	0	1	7
by	bc	c	L	l	L	3	5	7	ci/ci-cu	cu/cu-nb	cu/cu-nb/nb	E.	S.E.	S.E.	0	1	0	8
c	by	bc	L	l	L	9	1	4	cu/cu-nb	cu	fr-cu	S.E.	S.E.	S.E.	0	0	0	9
cy	bc	o	L	l	L	3/5	5	9	ci-cu/cu/cu-nb	cu/cu-nb	a-cu/cu-nb	E./E.	E.	S.E.	0	0	0	10
b	b	czw	L	l	K	1/2	3	2/7	ci-cu/cu/cu-nb	cu/cu-nb	ci/ci-st/cu/cu-nb	E./N.	W.	N./E.	0	0	5	11
c	odz	o	L	i	K	7	10	10	cu/cu-nb	nb	a-st/fr-cu	N.	....	S.E.	0	1	0	12
b	b	o	L	l	L	1/2	3	9	ci-cu/cu-nb	cu/cu-nb	cu-nb/nb	S.E./N.W.	S.E.	E.	0	0	0	13
ov	b	o	M	l	L	9	2	10	fr-cu/cu/cu-nb	cu	cu/cu-nb	E.	E.	N.E.	0	0	0	14
by	bv	bw	L	m	L	4	3	1	ci/ci-cu	cu	fr-cu	E.	N.E.	....	0	0	1	15
byv	b	o	M	l	L	2	3	10	cu	cu	cu-nb/nb	E.	N.	N.E.	0	0	0	16
by	ov	cv	L	m	M	3	10	8	ci/ci-cu	cu/cu-nb	a-cu	E.	N.E.	E.	0	0	1	17
bcv	ov	od	M	m	L	5	10	10	ci/ci-cu	a-st	nb	E.	....	....	0	0	1	18
c	b	bw	L	l	L	3/4	1	1	ci/ci-cu/cu-nb	cu	cu	N.E./S.W.	....	....	0	0	1	19
bc	b	bw	L	l	L	5	..	2	ci/ci-cu	.....	cu/cu-nb	E.	....	N.E.	0	0	5	20
bc	b	bw	L	l	L	4/2	1	..	ci-cu/cu	fr-cu	.....	N./E.	N.E.	....	0	0	5	21
bc	o	ow	L	l	L	5	9	9	cu/cu-nb	cu/cu-nb	a-cu/cu/cu-nb	N.W.	S.W.	N.	0	0	5	22
bc	oR	o	L	g	L	4	10	10	cu/cu-nb	nb	nb	S.	S.	S.E.	0	2	0	23
o	o	od	L	k	L	10	10	10	a/cu-nb	nb	nb	E.	S.E.	E.	0	0	1	24
o	od	o	L	l	L	10	10	10	cu/cu-nb	nb	nb	E.	E.	E.	1	0	0	25
o	bc	o	L	l	L	9	4	10	fr-cu/cu-nb	cu/cu-nb	nb	E.	N.E.	N.E.	0	0	0	26
bcy	o	o	L	l	L	3/3	10	2/8	ci-cu/cu/cu-nb	a-st/fr-nb	a-cu/a-st/nb	S.W./E.S.E.	E.	N.E./N.E.	0	0	0	27
..	o	o	..	l	L	..	10	10	.....	a-st	fr-st/nb	....	N.E.	N.E.	..	0	5	28
bcv	bc	bc	M	l	L	1/2	6	4	ci/cu	cu	cu/cu-nb	E.	E.	N.E.	0	5	5	29
..	c	cv	..	l	M	..	7	8	.....	cu/cu-nb	cu/cu-nb	....	E.	N.E.	..	0	0	30
byv	b	cv	M	l	M	2	2	7	fr-cu	ci-cu	st-cu	E.	N.E.	E.N.E.	0	0	0	31

INTERNATIONAL POLAR YEAR DURING AUGUST, 1933, AT 1H., 7H. AT 19H. G.M.T.

bcvy	c	o	M	m	L	4	7	9	st-cu/cu	st-cu	st-cu	E.N.E.	E.	E.	0	0	0	1
c	o	c	L	l	L	8	9	8	cu/cu-nb	a-st	st-cu/nb	N.E.	N.E.	N.N.E.	0	0	5	2
by	b	b	L	m	K	3	0	1	cu	.....	a-cu-cas	N.E.	....	....	0	0	5	3
b	b	b	K	k	L	2	3	3	cu	a-cu	ci/ci-st	W.N.W.	S.W.	S.W.	0	0	5	4
b	oq	bc	L	k	L	1/2	9	6	ci/cu	cu/cu-nb	cu/cu-nb	S.S.W./S.S.W.	W.	S.E.	0	0	5	5
c	oir	o	L	h	I	4/4	10	10	a-cu/cu/nb	nb	nb	N.N.W./S.S.E.	S.E.	S.E.	0	5	1	6
oid	c	oid	G	j	J	10	8	10	nb	st/nb	st/nb	E.S.E.	W.N.W.	N.E.	1	1	2	7
oid	oid	o	K	h	L	9	10	9	st/nb	st/nb	cu/nb	E.N.E.	....	N.	1	2	2	8
c	bc	..	L	l	..	2/5	5	..	ci/st-cu/cu/cu-nb	cu/st	.....	W.S.W./E.N.E.	N.W.	....	1	1	..	9
bcy	bc	b	L	k	K	4	5	1/1	cu	cu/cu-nb	ci/st-cu	N.	N.W.	S.W./N.W.	0	0	5	10
o	bc	o	K	l	I	10	6	10	st/nb	cu/cu-nb	st/nb	S.S.W.	S.	S.E.	0	0	1	11
o	od	o	J	i	J	10	10	10	st/nb	st/nb	st/nb	S.E.	S.E.	E.N.E.	0	1	1	12
o	od	bc	I	i	K	10	10	2/4	st/nb	st/nb	ci/cu/nb/st	E.	E.	W.S.W./E.N.E.	1	1	1	13
..	o	o	..	j	K	..	9	9	.....	cu/nb/st	cu/nb/st	....	E.N.E.	N.W.	..	1	1	14
og	..	bv	I	..	M	10	..	1	nb	.....	fr-cu	N.E.	....	E.	1	..	2	15
bcv	o	oir	M	l	F	5	9	10	cu/nb	nb	nb/st	N.W.	N.W.	S.E.	1	1	2	16
bc	o	o	L	j	M	2/3	10	10	ci/a-cu/a-st/cu	st/nb	st/nb	W./S.W.	S.	S.E.	2	1	2	17
o	o	b	M	i	L	9	9	1/2	a-st	st-nb	ci-cu/cu	S.E.	E.S.E.	S./—	1	1	1	18
bc	b	o	L	l	L	2/2	2	9	ci/cu	st-cu	st-cu	W.S.W./E.	N.E.	W.	0	0	5	19
b	b	bc	L	l	L	2	2	6	cu	cu	cu/cu-nb	N.E.	W.	E.	0	0	5	20
bc	b	bc	K	k	L	5	3	2/3	cu/cu-nb	cu/cu-nb	ci/ci-cu/cu	E.	E.N.E.	W./E.	0	0	0	21
bc	bc	bc	K	l	L	6	2/3	5	cu/cu-nb	ci-cu/cu-nb	fr-cu/cu	N.N.E.	W./E.	N.E.	0	0	0	22
bc	bc	bc	L	l	L	1/3	2/3	3/3	ci-cu/cu-nb	ci-cu/cu-nb	ci-cu/cu-nb	W./E.	W./E.S.E.	S.W./N.E.	0	0	0	23
bc	bc	o	L	k	L	2/3	6	9	ci-cu/cu-nb	cu/cu-nb	fr-cu/cu/nb	S.W./N.E.	E.N.E.	E.	0	0	0	24
bc	bc	c	L	l	L	2/3	6	8	ci-cu/cu/cu-nb	cu/cu-nb	cu/cu-nb	W./N.E.	N.E.	N.E.	0	0	0	25
bc	..	bc	L	..	I	2/3	..	6	ci/ci-cu/cu-nb	.....	fr-cu/cu-nb	W./N.E.	....	E.N.E.	0	..	0	26
c	..	..	I	..	..	2/6	..	..	ci-cu/cu-nb	.....	.....	W.S.W./E.N.E.	....	....	0	..	..	27
c	o	o	J	k	K	1/7	6/3	9	ci/cu/cu-nb	ci/ci-st/cu/st	cu/nb/st	S.W./N.E.	W./N.E.	N.N.E.	0	0	5	28
bcy	o	o	L	k	L	1/5	9	10	ci/cu/cu-nb	a-st	nb/st	S.W./N.N.W.	....	S.	0	0	1	29
od	o	o	I	k	M	10	10	9	st/nb	a-st	a-st	S.S.W.	W.	S.	5	0	0	30
oy	o	o	M	l	M	9	9	10	a-st	a-st	a-st	S.S.E.	N.W.	....	0	0	0	31