Fiji Islands. Harbour master.
[Annual Meteorological Report] 1940

Meteorological Observations

TAKEN AT SUVA, FIJI,

DURING JANUARY, 1940.

Latitude, 18° 8′ South. Longitude, 178° 26′ East.

QC
993
.F4
M48
1940

HOURS OF OBSERVATION.

(i) 8 a.m. or 2000 G.M.T. (ii) 2 p.m. or 0200 G.M.T.

Local Standard Time being 12 hours fast of Greenwich Mean Time.

Height of Cistern of Barometer above Mean Sea Level, 12 feet; Site of Rain gauge, 8 feet; Diameter of Rain-gauge, 8 inches. Height of other Instruments above ground:—Rim of Rain-gauge, 12 inches; Thermometers, 4 feet 6 inches; Sunshine Recorder, 3 feet 3 inches; Vane of Dine's Pressure Tube Anemometer, 48 feet 6 inches; Robinson Cup Anemometer (run of the wind pattern), 41 feet 6 inches

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Maximum Thermometer set at 8 h. Read at 8 h.

Minimum Thermometer set at 8 h. Read at 8 h.

Grass Min. Thermometer set at 16 h. Read at 8 h.

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Information Manufacturing Corporation
Imaging Subcontractor
Rocket Center, West Virginia
September 14, 1999

JANUARY.

Day.	Attached thermometer and barometer as read in inches.				Air Pressure at Mean Sea Level in the Units of Measurement.		Temperature (degrees F.)										Humidity.						Wind Direction and Force (Beaufort Scale).			
							In Screen.						In Open.		In Ground.		Dew Point.		Vapour Pressure.		Percentage.					
	I		II		I	II	Dry.	Wet.	Dry.	Wet.	Maximum.	Minimum.	Grass Min. Eve to Morn.	Max. in Sun. Black Bulb in vacuo.	1 foot.	4 feet.	I	II	I	II	I	II	I		II	
							I		II						I											
							Tenths.				Whole Degrees.				Tenths.											
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	24	(25)	26
	°	"	°	"	"	"	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.			Dir.	F	Dir.	F
1	78	30·194	79	30·084	30·009	29·896	74·2	73·8	76·9	74·9	79	74	73	118	80·5	79·6	73	74	28·0	28·8	98	91	NEXN	2	E.S.E.	3
2	79	30·120	81	30·108	29·932	29·915	79·2	73·2	80·4	73·6	84	75	71	131	80·1	79·8	70	69	25·1	24·6	74	71	EXS	4	E.	3
3	79	30·136	82	30·122	29·948	29·925	79·8	73·2	84·4	75·4	85	71	66	126	80·4	79·8	70	71	25·3	25·7	72	64	EXS	3	E.S.E.	4
4	79	30·150	83	30·150	29·962	29·951	79·2	72·6	84·2	75·4	85	74	71	156	81·0	79·8	69	71	24·4	25·7	72	65	EXS	3	EXS	4
5	79	30·168	82	30·144	29·980	29·947	77·4	72·6	82·2	73·8	85	75	72	126	81·0	79·8	70	69	24·6	24·4	79	66	EXN	4	EXS	4
6	79	30·116	80	30·084	29·928	29·894	78·0	73·2	80·0	73·6	84	75	72	121	81·0	80·0	71	70	25·5	25·3	79	73	E.	4	E.	4
7	79	30·080	81	30·056	29·892	29·863	77·0	73·0	81·6	73·0	83	72	69	137	80·2	80·0	71	69	26·0	24·4	82	65	E.N.E.	3	E.	3
8	79	30·064	82	30·036	29·876	29·839	78·0	70·0	82·0	73·0	85	71	68	130	80·0	79·8	66	68	21·5	23·7	66	64	EXN	2	EXS	4
9	78	30·043	82	30·036	29·858	29·839	75·9	73·3	84·0	75·8	86	73	68	157	80·1	79·6	72	72	27·1	27·1	88	67	N.N.E.	1	EXS	4
10	79	30·058	80	30·046	29·870	29·856	76·8	74·8	78·4	74·8	80	74	73	101	81·0	79·5	74	73	28·8	27·6	91	84	NEXE	2	EXN	4
11	80	30·079	83	30·054	29·889	29·855	79·8	77·0	84·0	78·0	86	75	72	141	80·4	79·4	76	75	30·3	30·1	88	76	E.	3	EXN	4
12	81	30·084	81	30·037	29·891	29·844	81·0	76·0	78·8	77·2	86	77	74	147	81·0	79·8	74	77	28·4	31·6	79	93	E.N.E.	3	E.	4
13	81	30·027	82	29·970	29·834	29·773	80·8	77·2	81·7	79·0	85	76	73	151	81·2	79·8	76	79	30·7	33·3	84	89	N.E.	2	S.E.	3
14	81	30·000	84	29·948	29·807	29·746	79·0	76·0	87·0	79·0	88	75	72	161	82·0	79·8	75	76	29·3	30·3	86	69	Calm	0	E.S.E.	3
15	81	29·986	84	29·952	29·793	29·750	82·4	76·2	82·6	79·2	90	75	73	163	82·8	80·0	73	78	28·0	32·9	74	86	N.	2	E.S.E.	3
16	80	29·960	83	29·947	29·770	29·748	80·0	76·8	82·0	77·2	84	76	74	141	82·6	80·4	76	75	30·3	29·5	86	80	SEXE	3	SEXS	4
17	81	29·938	85	29·899	29·745	29·694	81·2	75·6	85·0	77·2	89	73	71	157	82·2	80·9	73	73	27·7	28·1	77	69	N.N.E.	2	NEXN	4
18	79	29·966	85	29·946	29·778	29·741	79·4	75·4	88·4	79·0	89	74	70	164	81·9	81·0	73	74	27·9	29·1	83	65	N.N.E.	3	NEXE	4
19	79	29·956	83	29·922	29·768	29·723	77·0	75·4	84·4	78·2	87	73	69	149	82·0	80·8	75	75	29·5	30·1	93	75	Calm	0	EXN	4
20	81	29·988	84	29·950	29·795	29·748	81·0	76·8	86·8	78·8	89	74	68	161	82·0	81·0	75	76	29·9	30·3	82	69	NEXN	2	E.	4
21	82	30·028	84	29·980	29·831	29·778	81·2	77·6	87·2	78·2	88	75	72	152	82·4	81·0	76	74	30·7	28·8	85	66	N.N.E.	3	EXS	4
22	80	30·014	85	30·006	29·824	29·801	79·8	75·8	87·0	77·4	88	73	67	151	82·7	81·4	74	73	28·9	28·0	83	63	N.E.	1	E.	4
23	80	30·036	84	30·007	29·846	29·805	81·2	75·2	86·4	76·8	87	74	69	149	83·0	81·7	72	72	27·0	26·9	75	63	N.N.E.	2	E.S.E.	4
24	79	30·000	85	29·972	29·812	29·767	79·0	75·0	87·0	76·2	88	73	68	151	83·2	81·3	73	71	27·9	25·8	82	59	Calm	0	E.S.E.	4
25	81	29·990	86	29·969	29·797	29·762	80·4	75·4	88·8	78·6	90	74	70	156	83·6	81·7	73	75	27·4	29·4	79	62	Calm	0	N.E.	4
26	80	29·996	86	30·000	29·806	29·793	79·2	75·2	87·2	79·4	89	75	70	156	83·2	82·4	73	76	27·9	30·3	83	70	Calm	0	S.	3
27	81	30·009	85	29·972	29·816	29·767	80·2	76·2	86·9	78·2	89	74	69	159	83·8	82·9	74	75	28·9	29·5	83	67	Calm	0	S.S.E.	2
28	84	30·006	85	29·946	29·804	29·741	82·6	77·3	83·0	79·0	91	75	73	167	84·0	84·0	75	77	29·8	32·1	77	83	Calm	0	S.S.E.	1
29	82	30·030	85	30·000	29·833	29·795	82·0	77·4	87·8	80·0	89	76	71	151	83·9	83·6	76	77	30·2	31·4	81	70	NEXE	1	E.S.E.	2
30	83	30·086	87	30·026	29·887	29·816	81·8	77·4	88·4	79·4	90	76	72	153	84·2	84·0	76	75	30·2	29·9	82	66	N.E.	2	EXS	4
31	84	30·084	88	30·040	29·882	29·827	83·2	77·0	89·8	78·2	91	76	71	153	84·6	84·1	74	73	29·0	28·2	75	58	N.E.	2	EXS	4
Tls.	2488	931·392	2586	930·409	925·463	924·199	2467·7	2331·6	2614·3	2387·5	2689	2303	2191	4536	2542·0	2508·7	2268	2282	866·2	882·9	2518	2208	...	..	...	..
Mns	80·3	30·045	83·4	30·013	29·854	29·813	79·6	75·2	84·3	77·0	86·7	74·3	70·7	146·3	82·0	80·9	73·2	73·6	27·9	28·5	81·2	71·2	...	..	...	..

Temperature—
Daily Range: Mean Max.—Mean Min.—12·4°.
Greatest Range—16° on 17th, 25th and 28th.
Least Range—5° on 1st.
Mid Temperature: ½ [Max. + Min.]—80·5°.
Highest Maximum—91° on 28th and 31st.
Lowest Minimum—71° on 3rd and 8th.
Lowest Maximum—79° on 1st.
Highest Minimum—77° on 12th.
Lowest Grass Minimum—66° on 3rd.

Humidity—
Greatest Humidity—98 per cent on 1st at 8 a.m.
Least Humidity—58 per cent. on 31st at 2 p.m.

Air Pressure—
Highest value at M.S.L.—30·009″ on 1st at 8 a.m.
Lowest value at M.S.L.—29·694″ on 17th at 2 p.m.

No. of Days of—
Rain—20.
Hail—0.
Thunderstorms—6.
Fog—0.
Gales (force 8 or more)—0.

Rainfall—
Total—5·58″ or 141·73 mm.
Average for 56 years—11·77″.
Difference from normal— − 6·19″.
Greatest fall in 24 hours—1·62″ or 41·15 mm on 17th.
Total since 1st January—5·58″

VISIBILITY SUMMARY—No. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8 a.m.	0	0	0	0	0	0	0	0	1	1	3	11	3	12
2 p.m.	0	0	0	0	0	0	1	1	2	0	3	10	3	11

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—18⅝ miles, M—31 miles.

JANUARY.

Wind. Miles run for previous 24 hours.	Wind. Mean velocity.	Weather for 24 hours ending midnight. (Beaufort Letters). Before Obser'tion.	At time of Obser'tion.	Between Obser'tion hours.	At time of Obser'tion.	After Obser'tion.	Visibility.		Cloud. Amount (0–10).		Cloud. Form.		Cloud. Direction whence coming.		Amount of Rain. 6 hours during the day measured at 14h.	Amount of Rain. 18 hours measured next morning at 8h.	State of ground.		Sunshine (hours and tenths).	Day.
		I	I	I and II	II	II	I	II	I	II	I	II	I	II			I	II		
27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	44	45	(46)	
228·0	9·5	odr	odr	odr	o	oid,c	H	J	10	10	Nb/St	As/St	N.E.	?/S.E.	0·37	Trace	1	1	0·0	1
230·4	9·6	o,c	c	c,bc,o	oid	oid,r	K	J	7	9	Ci/Ac/Cu/cb	As/Cb/Nb	W/E	—/E	Trace	0·06	1	1	4·8	2
184·8	7·7	c,bc	bc	bc,c	c	c,op	K	L	6	7	Ci/Cu	Ci/Ac/Cb	W/E/	W/E/ESE	..	0·04	1	0	7·8	3
182·4	8·2	o,c	o	c,bc	c	cp	K	K	9	8	Cs/Cu/Cb	Ci/Cu/Cb	?/E	W/E	..	0·03	0	0	6·3	4
247·2	10·3	op	ojp	o,c,bc	cjp	c,oid	J	J	10	7	As/Nb	Ci/Cb	?/E	?/E	..	Trace	0	0	4·7	5
240·0	10·0	o	ojp	o	ojp	o,c	J	K	9	10	Cs/St	Sc	—/NE	N.E.	..	0·10	0	0	2·2	6
235·2	9·8	op	o	o,c,bc	o	o,c	K	K	9	9	Sc/St	Cs/Cb	E.N.E.	E.N.E.	..	..	1	0	3·1	7
213·6	8·9	o,c	c	bc,c,o	o	op	L	K	8	9	Cs/Cu	Ac/Cb	—/ENE	—/E	..	0·06	0	0	4·7	8
204·8	8·5	op,c,bc	op	o,c,bc	c	c,o	J	K	9	7	Cb	Ac/Cb	N.E.	NE/E	Trace	0·17	1	0	7·0	9
199·2	8·3	op	ojp	op	ojp	oid,bc	K	H	9	9	Nb/St	As/Nb/St	N.E.	?/NE	0·08	0·01	1	1	0·1	10
170·4	7·1	o	o	o,c,bc	o	o,c	I	K	9	9	Sc/Cb/St	Sc/Cb	E	E.N.E	Trace	..	1	0	2·4	11
228·0	9·5	c,bc	c	c,bc,op	op	c,bc,op	K	H	7	10	Ac/cb	Cb/St	?/ENE	E.N.E.	0·02	0·07	0	0	5·6	12
201·6	8·4	op,c,bc	bc	bc,cpPo	o	o,c,bc,b	K	K	6	9	Cs/cb	Cb	?/NE	....	0·75	Trace	0	1	4·3	13
115·2	4·8	b	b	b	b	bct,bw	K	L	3	3	Cu	Cu	....	....	..	..	0	0	10·4	14
124·8	5·2	b	bc	bc,c,od	or	ord,bc,p	K	G	4	10	Cs/Cu	Cb/Nb	W/NE	S.E.	Trace	0·18	0	0	5·8	15
148·8	6·2	op	c	c,o	o	op	L	L	8	9	Sc	Sc/Cb	S.E.	S.E.	..	0·05	1	0	1·6	16
187·2	7·8	op,c,b	b	b,bc,c	cjp	otll,rr,c	M	K	3	8	Ac/Cu	Ci/Ac/Cb	W/NE	W/W/NE	..	1·62	0	0	7·5	17
146·4	6·1	b	b	b,bc	bc	c,orrtl,bc	M	M	1	6	Sc/Cu	Sc/Cb	N.N.E.	N.E.	..	0·71	2	1	7·4	18
103·2	4·3	b,bc,c	c	bc,c	bczjp	c,op,b	K	K	8	6	Cu/Cb	Cu/Cb	N.E.	N.E.	..	0·04	2	1	4·1	19
117·6	4·9	bw	bc	bc	bc	c,odl,bc	K	K	4	6	Cu/Cb	Sc	N.E.	....	..	Trace	1	0	9·3	20
141·6	5·9	bc,b	bc	bc,b	b	bw	L	M	4	3	Ac/Cu	Ci/Cu	SW/NE	?/NNE	..	..	0	0	11·4	21
158·4	6·6	b	b	b,bc	bc	bc,bw	M	M	2	4	Cu	Ci/Cu	N.E.	?/NE	..	..	0	0	12·0	22
165·6	6·9	b,bc	bc	b,bc	bc	bc,bw	M	M	4	6	Ci/Cu	Ci/Cu	?/ENE	—/—	..	..	0	0	12·0	23
156·0	6·5	b	b	b	b	b,bc,w	M	M	1	2	Cu	Cu	N.E.	N.E.	..	..	0	0	11·9	24
148·8	6·2	b	bc	bc	bc	c,oidt,bc	M	M	4	5	Cs/Cu	Cu/Cb	?/NE	NE/WNW	..	0·07	0	0	8·4	25
144·0	6·0	bc	bcv	bcv	bcv	bcvc,oPq,b	M	M	6	5	Ac/Cb	Ci/Ac/Cu/Cb	W/?	W/—/—	..	0·22	0	0	9·5	26
117·6	4·9	b,bc	bcv	bcv	bc	bc,cp	M	M	6	4	Ci/Cu	Cs/Cb	—/—	—/—	..	0·01	1	0	9·5	27
124·8	5·2	c,bc,b	bv	bcv,bc,c,oR	oR	oRt,ir,c,b	M	F	3	9	Cu	Nb	....	....	0·20	0·64	0	1	7·4	28
134·4	5·6	bv	bv	bv,bct	bcvt	bcvt,c,op,b	M	M	3	6	Ac/Cu	Cu/Cb	WSW/—	E.	..	0·08	1	0	9·2	29
103·2	4·3	b,bc,p	bcv	bcv,b	bv	bv,bcw	M	M	5	3	Ac/Cu	Cu	—/NE	E.	Trace	..	0	0	11·8	30
153·6	6·4	bv	bv	bv	by	bw	M	M	2	2	Cu	Cu	N.E.	E.	..	..	0	0	12·4	31
5256·8	219·6	....	...	....	...	....	..	..	179	210	.....	.....	....	....	1·42	4·16	..	..	214·6	Totals
169·6	7·1	....	...	....	...	....	..	..	5·8	6.8	.....	.....	....	....	..	..	..	..	6·9	Means

CLOUD AMOUNT.

Number of cases of total cloud amount.

Hour.	0	1/3	4/6	7/9	10
8 a.m.	0	8	10	11	2
2 p.m.	0	5	9	13	4

WIND SUMMARY—No. OF OBSERVATIONS OF.

	Force 8 or more.	4/7.	1/3.	Calms.	N.N.W.	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.
8 a.m.	0	3	21	7	0	1	5	8	2	7	0	1	0	0	0	0	0	0	0	0
2 p.m.	0	21	10	0	0	0	0	3	0	16	7	2	2	1	0	0	0	0	0	0
Total	0	24	31	7	0	1	5	11	2	23	7	3	2	1	0	0	0	0	0	0

Prevailing Direction, E.; 8h. N.E.; 14h. E; Maximum velocity 29 m.p.h. on 4th, 5th and 6th.

WEATHER DIARY—JANUARY, 1940.

Date.

1. Light breeze after 0125, falling off 0400 backing N.E'ly, becoming gusty force 2/4 0900, veering E.S.E. 1220 force 3, backing N.E. after 1500, falling off 1800. Overcast, low clouds and poor visibility during the morning. Drizzle and rain 0440 to 1210 and very thin intermittent drizzle 1740 to 1910. Cloudy to overcast night. Greenish tinge in sky at sunset.

2. Fine, cloudy early and N.E. airs, becoming half cloudy. Gentle to moderate E'ly breeze 0325, increasing force 4, falling off 1525, backing E.N.E. to N.E. Overcast afternoon. Thin intermittent drizzle and rain 1330 to 1800.

3. N'ly airs to calm early. Light E'ly breeze 0525, increasing force 3/4 from E.S.E. Fine and half cloudy, becoming cloudy to overcast about 1300, clearing 2130. Wind backed N.E'ly 1915, veering E. 2320. Shower 2035 to 2045.

4. Light shower 0122. Cloudy to overcast early, Cs. predominating. Variable sky 0830 to 1540 then overcast. Gentle to moderate E.S.E. to E. breeze all day with fresh gusts. Light showers 1900 and 2250. Maximum wind velocity 29 m.p.h. from E.S.E. at 2108.

5. Overcast all day. Gentle to fresh E'ly breeze with frequent strong gusts. Shower 0630 to 0640. Thin drizzle 2200 to 2215 (trace only). Maximum wind velocity 29 m.p.h. from E.xN. at 0938.

6. Overcast all day and moderate to fresh E. breeze with strong gusts, gradually falling off 1800. N.E. airs 2350. Fine all day but cloudy to overcast and dull. Maximum wind velocity 29 m.p.h. from E. at 1002.

7. N.E. airs at first and overcast. Light to moderate variable N.E. to E. breeze 0520, becoming moderate to fresh E. 0820, falling off 2300. Showers 0510 to 0700. Variable sky during the day, mainly cloudy. Maximum wind velocity 26 m.p.h. from E. at 0948.

8. Fine and cloudy early and light to gentle N.E. to E. winds, becoming moderate E. 0900. Gentle breeze 1700. Half cloudy during the day, overcast afternoon and night. Showers 2045 to 2105.

9. Overcast and showers 0000 to 0010 and 0740 to 0805. Fine and bright early and during the day. Cloudy to overcast after 1515. Gentle E. breeze at first, falling to N.N.E. to N.E. 1, 0412. Moderate E'ly breeze 0830 with fresh gusts, falling to force 2 after 1700. Pretty sunset.

10. Overcast all day. Showers 0025 to 1330. Thin intermittent drizzle 1500 to 1940. Light to gentle E. to N.E. breeze early, increasing force 4 1025, with fresh gusts 1240 to 1500, falling off 1620, backing E.N.E. to N.E. Maximum wind velocity 26 m.p.h. from E. at 1422.

11. Light E.N.E. breeze at first, gentle breeze 0312 from E.N.E. to E. Mainly overcast all day with threatening sky to N.W. (cloud base down to 800 feet at times). Bright intervals 1000 to 1300. Moderate to fresh breeze 1000 to 1300, then moderate breeze gradually falling to force 3. Maximum wind velocity 28 m.p.h. from E.xN. at 1146.

12. Fine and half to three-quarters cloudy early and light to gentle E.N.E. breeze, with N.E. airs 0540 to 0650. Cloudy to overcast and light showers 1330 to 1400 and 2000 to 2240. Moderate E'ly breeze 0900 with occasional fresh gusts, falling off 1700, backing E.N.E. Gentle E. breeze 2200.

13. Cloudy early and showers 0320 to 0340 then half cloudy, becoming cloudy to overcast 1008 and light shower; heavy showers 1115 to 1240. Clear sky after 1700. E. to N.E. winds early force 1/3, veering N.W'ly 1048, backing S'ly 1212 force 2/3, then very gradually backing E'ly, falling off 1800.

14. N'ly airs to calm early. Fine and clear sky all day and night. Light to gentle E.S.E. breeze 1000, falling off 1500 to N.E. airs to calm. Distant thunder to N.W. 1430 to 1530. Dew at night.

15. N'ly airs to calm early, fine and clear sky to half cloudy, becoming overcast 1220. Drizzle and rain 1310 to 1530. Variable sky at night, light shower 2100. Light N'ly breeze 0740. Light to gentle E.S.E. 1120, veering S.S.W. 1450 and to W'ly 2010. Calm 2200. Light S.W'ly 2311.

16. Cloudy to overcast early and light showers between 0140 and 0610. Light to moderate S.W'ly winds backing S.E'ly 0356 backing N.E. 2120, falling off 2340. Showers 2145 to 2220.

Date.

17. Cloudy to overcast and light shower 0225, then fine and half to quarter cloudy, becoming overcast 1400. Moderate thunderstorm 1420 to 1845 with lightning to about 1930. Moderate rain 1435 to about 2130. N'ly airs at first. Light to gentle N.N.E. breeze 0740 to E.N.E., increasing force 4 with fresh gusts 1340 to 1350, then falling to force 2/3.

18. N.N.E. winds force 1/3 early, fine cloudless and excellent visibility, gradually becoming overcast after 1430. Gentle to moderate N.E'ly breeze 1200, falling off 1615. Moderate rain 1620 to 2000, with thunderstorm 1750 to 1815, then fine and half cloudy.

19. Mainly fine and cloudy all day, but with bright intervals. Light showers 1745 to 1830. Very pretty sunset. Clear to cloudless sky at night. N'ly airs to calm early, boxing compass 0900 to 1000, then light N.E. to E., increasing force 3/4 1212 gradually backing N.N.E., falling off 1600.

20. N'ly airs to calm early, cloudless and dew, becoming half cloudy 0755 and light N.E.xE. breeze. Moderate E. breeze 1000, falling off 1600 backing N.E. Cloudy during late afternoon, variable sky at night. Trace rain 2130.

21. N.E. airs to calm early, fine and clear to half cloudy. Light to gentle N.E. to N.N.E. breeze 0700, increasing force 4/5 from E. 1148, falling off 1800 backing N.E. Very pretty sunset. Cloudless sky at night and dew.

22. Fine, clear sky early and N'ly airs to calm. Wind gradually increased force 3/4 after 0805, veering E'ly, falling 1700, backing N.E. 1800. Half cloudy at times during the day, cloudless night and dew. Very pretty sunset.

23. Fine and clear to half cloudy all day, cloudless early and at night and dew. N.E. airs to calm early increasing force 2 0800, veering E.S.E. force 3/4 after 1000, falling off 1700 backing N.N.E.

24. N'ly winds force 0/2 early, cloudless to clear. Half cloudy at times at night and dew. Wind gradually increased force 3/4 veering E.S.E., falling off 1725, backing N.N.E.

25. N'ly airs to calm early, fine and clear to half cloudy, becoming overcast 1430. Intermittent drizzle 1500 to 1905, sky clearing 2230. Occasional thunder 1504 to 1600. Moderate N.E. breeze 1104 with fresh gusts, falling off 1500, becoming variable.

26. Variable N'ly winds to calm early, fine, half cloudy and unusual visibility Ac predominating. Light to gentle S'ly winds 1025, becoming variable S.E. 1430 and sky gradually covered 1700. Moderate to fresh N.N.E. squall and heavy showers 1840 to 1920, then sky cleared and wind fell to force 1.

27. Fine early, half cloudy, unusual visibility and N'ly airs to calm. Ci predominating. Variable sky after 1500, overcast at times Light showers 2050 to 2230. S'ly airs 0902, gradually increasing force 3, backing S.E'ly 1300, and to S. 1500, backing N.E. 1555, falling off 1740. Gentle W'ly breeze 1905, falling off 2040.

28. N'ly airs to calm early, fine, cloudless and unusual visibility, sky gradually covering 1130. E'ly breeze force 1/2 0910 veering E.S.E. 4, 1130, becoming variable after 1355 but mainly N'ly airs to calm. Heavy rain 1345 to 1440, then light intermittent rain to 2030 when sky gradually cleared. Distant thunder 2225.

29. Variable winds all day force 0/3. Fine, clear sky and unusual visibility early, becoming cloudy to overcast about 1500, clearing 2045. Distant thunder 1240 to 1600. Showers 1940 to 2915.

30. Clear to half cloudy sky all day, unusual visibility and fine, except for light shower 0510 to 0520. N'ly airs at first. Light N.E'ly breeze 0640, increasing force 4, veering E'ly 1125, falling off 1700, backing N.N.E. Pretty sunset. Dew at night.

31. Unusual visibility early. Fine and clear sky to cloudless all day and dew at night. N'ly airs to calm at first, gradually veering E'ly 4, falling off 1730, backing N'ly.

ADDITIONAL NOTES.

A fine and hot month generally, especially during the latter half when the weather, for the most part, was fine with clear skies.

Mean temperature was 0·4° and mean perssure at 8 a.m. 0·068″ above normal, whilst rainfall showed a deficiency of 6·19″.

Suva, 2nd February, 1940.

G. B. NASMYTH,
Harbour Master.

Meteorological Observations

TAKEN AT SUVA, FIJI,

DURING FEBRUARY, 1940.

Latitude, 18° 8′ South. Longitude, 178° 26′ East.

HOURS OF OBSERVATION.

(i) 8 a.m. or 2000 G.M.T. (ii) 2 p.m. or 0200 G.M.T.

Local Standard Time being 12 hours fast of Greenwich Mean Time.

Height of Cistern of Barometer above Mean Sea Level, 12 feet; Site of Rain gauge, 8 feet; Diameter of Rain-gauge, 8 inches. Height of other Instruments above ground:—Rim of Rain-gauge, 12 inches; Thermometers, 4 feet 6 inches; Sunshine Recorder, 3 feet 3 inches; Vane of Dine's Pressure Tube Anemometer, 48 feet 6 inches; Robinson Cup Anemometer (run of the wind pattern), 41 feet 6 inches

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Maximum Thermometer set at 8 h. Read at 8 h.

Minimum Thermometer set at 8 h. Read at 8 h.

Grass Min. Thermometer set at 16 h. Read at 8 h.

FEBRUARY.

Day.	Attached thermometer and barometer as read in inches.				Air Pressure at Mean Sea Level in the Units of Measurement.		Temperature (degrees F.)										Humidity.						Wind Direction and Force (Beaufort Scale).			
							In Screen.						In Open.		In Ground.		Dew Point.		Vapour Pressure.		Per-centage.					
							Dry.	Wet.	Dry.	Wet.	Maximum.	Minimum.	Grass Min. Eve to Morn.	Max. in Sun. Black Bulb in vacuo.	1 foot.	4 feet.										
	I		II		I	II	I		II						I		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)	(19)	(20)	(21)	(22)	(23)	24	(25)	26
	°	"	°	"	"	"	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.			Dir.	F	Dir.	F
1	83	30·042	89	29·988	29·843	29·772	84·0	78·2	90·4	80·8	92	76	71	164	84·9	84·2	75	77	30·1	31·3	76	65	N.E.	2	ExS	4
2	83	30·040	88	29·990	29·841	29·777	82·0	75·8	88·8	79·0	91	75	70	141	85·2	84·3	73	75	28·0	29·4	74	63	Calm	0	E.S.E.	4
3	83	30·073	88	30·022	29·874	29·809	82·2	76·2	91·0	79·0	91	75	70	154	85·2	84·5	73	74	28·0	28·5	75	57	Calm	0	E.	4
4	84	30·100	87	30·052	29·898	29·842	81·8	76·4	89·6	78·8	90	76	73	150	85·2	84·3	74	74	28·7	29·0	77	61	Calm	0	E.S.E.	3
5	85	30·076	87	30·045	29·871	29·835	84·0	76·6	90·4	79·0	91	79	76	157	85·8	84·2	73	73	27·8	28·2	70	59	ExS	3	ExN	4
6	85	30·083	87	30·044	29·878	29·834	83·6	75·4	88·8	78·4	90	81	76	153	85·8	84·2	72	74	27·1	28·6	67	61	ExN	4	E.	5
7	84	30·068	87	30·038	29·866	29·828	83·2	76·8	87·8	78·4	89	80	76	139	85·6	84·3	74	74	28·3	29·1	74	65	ExN	5	ExS	5
8	84	30·028	87	29·998	29·826	29·788	83·4	76·2	90·0	78·4	91	76	70	156	85·2	84·1	73	73	27·5	28·2	71	58	E.N.E.	3	E.	4
9	82	30·010	86	29·978	29·813	29·771	79·2	75·6	88·2	73·6	90	77	72	156	85·8	84·0	74	66	28·6	21·7	84	48	E.N.E.	3	E.S.E.	3
10	79	29·996	86	29·972	29·808	29·765	77·8	72·6	88·2	75·4	90	72	66	157	85·4	83·9	71	69	25·5	23·9	77	53	N.N.E.	1	E.S.E.	4
11	83	30·006	85	29·954	29·807	29·749	79·8	74·6	85·4	76·0	88	74	66	156	85·5	83·8	73	71	27·4	25·9	78	64	N.	1	S.S.W.	3
12	82	29·970	85	29·950	29·773	29·745	80·8	74·0	83·8	74·6	88	74	68	166	86·0	83·8	71	71	25·6	25·7	71	64	SExE	4	SExS	4
13	82	29·968	86	29·930	29·771	29·723	81·8	75·6	87·6	76·2	89	74	69	166	85·2	83·8	73	71	28·0	26·1	74	58	E.	3	ExS	5
14	83	29·980	85	29·954	29·781	29·749	82·0	75·2	85·0	76·2	87	77	72	131	85·2	83·6	72	72	26·5	26·7	72	65	ExN	4	ExS	5
15	82	30·008	85	29·986	29·811	29·781	81·0	75·4	87·0	78·0	88	77	73	145	84·8	83·3	73	74	27·7	28·8	76	65	E.	4	E.S.E.	4
16	84	30·030	86	29·978	29·828	29·771	83·6	75·4	87·0	77·0	88	79	73	138	85·0	83·2	72	72	27·1	27·2	67	62	ExS	4	E.S.E.	5
17	82	29·934	83	29·888	29·737	29·689	79·4	77·4	82·0	79·4	84	79	75	133	84·8	83·0	76	79	30·8	33·3	91	89	ExN	4	ExN	4
18	81	29·950	83	29·908	29·757	29·709	78·2	77·2	79·0	78·0	84	76	74	121	84·0	82·8	77	78	31·2	32·3	95	95	N.E.	4	N.E.	4
19	80	29·976	83	29·962	29·786	29·763	78·2	76·8	84·0	79·2	84	77	75	132	83·4	82·4	76	77	30·5	31·6	94	80	N.N.E.	3	N.N.E.	4
20	81	30·040	84	30·010	29·847	29·808	80·4	78·0	83·4	79·2	87	77	74	125	83·1	82·5	76	77	31·1	32·1	89	83	E.N.E.	3	N.E.	4
21	81	30·014	86	29·978	29·821	29·771	79·8	77·2	86·4	77·0	89	75	73	143	83·2	82·8	76	72	31·1	26·9	89	64	NExN	3	N.E.	5
22	82	30·016	84	29·978	29·819	19·776	78·4	78·2	85·6	78·4	88	77	75	151	83·4	82·5	78	76	32·8	30·7	99	72	NExN	2	N.E.	4
23	83	30·034	86	30·012	29·835	29·805	83·0	78·2	88·0	80·2	90	77	73	154	83·6	82·2	76	77	30·5	31·4	80	70	N.N.E.	2	ExS	5
24	83	30·096	86	30·072	29·897	29·865	83·0	78·0	88·0	79·6	89	78	73	149	84·0	82·3	76	76	30·5	30·6	79	68	E.	3	SExE	4
25	83	30·090	85	30·054	29·891	29·849	80·8	78·8	88·2	79·2	89	77	75	148	84·2	82·2	78	75	33·0	29·9	91	66	N.N.E.	1	E.	5
26	84	30·060	86	30·000	29·858	29·793	83·2	78·4	88·8	80·6	89	77	73	147	84·1	82·8	76	78	30·5	32·6	80	69	ExN	4	E.	5
27	81	30·046	86	30·012	29·853	29·805	79·8	76·6	86·8	80·0	89	75	71	141	84·0	83·0	76	77	30·3	31·9	86	73	Calm	0	ExS	4
28	81	30·070	84	30·054	29·877	29·852	79·9	77·7	84·0	78·6	86	77	74	124	84·0	83·0	77	76	31·9	30·9	90	78	NExN	2	N.N.E.	3
29	81	30·150	84	30·118	29·957	29·916	78·9	77·0	85·2	79·6	86	78	73	132	83·8	83·0	76	77	30·8	32·0	91	78	N.N.E.	1	ExN	3
Tls.	2391	870·954	2484	869·925	865·224	863·940	2353·2	2219·5	2518·4	2267·8	2567	2222	2099	4229	2455·4	2418·0	2160	2155	846·9	844·5	2337	1953	...	..	...	..
Mns	82·4	30·033	85·6	29·997	29·835	29·791	81·1	76·5	86·8	78·2	88·5	76·6	72·4	145·8	84·7	83·4	74·5	74·3	29·2	29·1	80·6	67·3	...	..	...	..

Temperature—
Daily Range: Mean Max.—Mean Min.—11·9°.
Greatest Range—18° on 10th.
Least Range—5° on 17th.
Mid Temperature: ½ [Max. + Min.]—82·6°.
Highest Maximum—92° on 1st.
Lowest Minimum—72° on 10th.
Lowest Maximum—84° on 17th, 18th and 19th.
Highest Minimum—81° on 6th.
Lowest Grass Minimum—66° on 10th and 11th.

Humidity—
Greatest Humidity—99 per cent. on 22nd at 8 a.m.
Least Humidity—48 per cent. on 9th at 2 p.m.

Air Pressure—
Highest Value at M.S.L.—29·957″ on 29th at 8 a.m.
Lowest Value at M.S.L.—29·689″ on 17th at 2 p.m.

No. of Days of—
Rain—19.
Hail—0.
Thunderstorms—2.
Fog—0.
Gales (force 8 or more)—0.

Rainfall—
Total—4·94″ or 12548 mm.
Average for 56 years—11·09″.
Difference from normal—−6·15″.
Greatest fall in 24 hours—0·90″ or 22·86 mm. on 26th
Total since 1st January—10·52″.

VISIBILITY SUMMARY—No. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8 a.m.	0	0	0	0	0	0	0	0	0	2	3	11	5	8
2 p.m.	0	0	0	0	0	0	0	0	0	2	3	10	6	8

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.

FEBRUARY.

Wind. Miles run for previous 24 hours.	Wind. Mean velocity.	Weather for 24 hours ending midnight. (Beaufort Letters). Before Obser'tion.	At time of Obser'tion.	Between Obser'tion hours.	At time of Obser'tion.	After Obser'tion.	Visibility.		Cloud. Amount (0–10).		Form.		Direction whence coming.		Amount of Rain. 6 hours during the day measured at 14h.	Amount of Rain. 18 hours measured next morning at 8h.	State of ground.		Sunshine (hours and tenths).	Day.
		I	I	I and II	II	II	I	II	I	II	I	II	I	II			I	II		
(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	44	45	(46)	
															"	"				
199·2	8·3	b	b	b,bc	bc	bc,cp,b	L	M	3	4	Cu/Cb	Cu	E.N.E.	N.E.	..	0·03	0	0	12·3	1
134·4	5·6	b	b	b,bc,c	bc	bc,c,o,b	M	L	3	4	Acl/Cu	Cu/Cb	—/—	N.E.	..	..	0	0	10·4	2
163·2	6·8	b	b	b,bc	by	b,bc	M	M	2	3	Ci/Cu	Cu	WNW/NE	....	..	..	0	0	11·5	3
141·6	5·9	b	bcv	b,bcv	bcv	bc,b	M	M	4	4	Cu	Ci/Cu	....	E.S.E.	..	..	0	0	11·7	4
194·4	8·1	b,bc	cjp	c,oPq,bc	bcy	bc,copl	M	L	7	6	Cu/Cb	Cs/Cu/Cb	E.	WNW/ENE	0·14	Trace	0	0	8·9	5
228·0	9·5	bc,c	c	c,bcp	bcjp	bc,c,o	K	K	7	4	Ac/Cu/Cb	Cu/Cb	—/E	E.N.E.	Trace	Trace	0	0	9·4	6
276·0	11·5	o	o	c,bco	o	cz,bc	J	J	9	9	Cs/Cu	Ac/Sc/Nb	E.N.E.	?/ENE	..	Trace	0	0	4·2	7
196·8	8·2	bcp	bc	bc	bcy	bc,c	K	L	4	4	Ci/Cu	Ci/Cu	?/ENE	—/ENE	..	..	0	0	11·6	8
184·8	7·7	c,o	ojp	o,c,bc	cy	bc,b	J	M	9	8	Ci/Nb/St	Ac/Cu	?/E	W/?	..	..	0	0	4·8	9
151·2	6·3	b,bc	bc	bc	bcy	bc,c,op,b	M	L	5	4	Ac/Cu	Ac/Cu	?/E	?/—	..	Trace	0	0	10·6	10
175·2	7·3	b	b	b,bc	bc	bc,b,cpq	M	M	1	4	Cu	Cu	E.	S.E.	..	0·04	0	0	12·1	11
170·4	7·1	bc,c,op	cjp	bc,c,o	op	bc,copq,b	L	K	7	9	Ci/Cu/Cb	Cb/Nb	SW/SE	S.E.	Trace	0·11	0	0	7·2	12
254·4	10·6	bc,c,op	bcjp	bc,c	bcy	bc,cjp,opq	K	K	6	6	Cs/Cb	Cu/Cb	E.	E.	..	0·04	0	0	7·9	13
268·8	11·2	c,bc	bc	bc,c,ojp	ojp	o,c	M	K	5	9	Fc/Cb	As/Cb/Nb	E.	?/E	..	0·01	0	0	3·9	14
213·6	8·9	oid	o	od,c,bc	c	bc,c	M	M	9	7	Sc/Cu/Cb	Ac/Cu/Cb	E.	E/E	Trace	Trace	0	0	6·9	15
261·6	10·9	bc,c	c	c,bc	c	od,irq	K	K	7	8	Ci/Cu/Cb	Cs/Cb	E/ESE	?/ESE	..	0·34	0	0	7·3	16
321·6	13·4	oirq	oir	oirRq	ojp	oidr	I	I	10	9	Nb/St	As/Cb/St	E.	?/EXN	0·17	0·33	1	1	0·0	17
288·0	12·0	oidr	oir	oirRq	oir	oirqr	I	I	10	10	Nb/St	Nb/St	N.E.	N.E.	0·47	0·15	1	1	0·1	18
213·6	8·9	oP,ird	oir	oidr	ojp	oir	K	L	10	10	Nb/St	As/Nb/St	N.N.E.	?/NNE	0·08	0·41	1	1	0·0	19
194·4	8·1	o	ou	op,c	oir	oirq	K	J	9	10	Ac/Nb/St	As/Nb/St	?/NE	?/NE	0·05	0·32	1	1	1·8	20
163·2	6·8	oird	o	op,c,bcv	cjpv	bc,b,c	L	M	9	7	Ac/As/St	Ci/Cu/Cb	—/NE	W/NE	0·03	0·28	1	1	10·3	21
175·2	7·3	bc,cpPq	cjp	bc,cp,o	cjp	c,bc	J	K	7	8	Cb/Nb	Acl/Cb	NEXN	—/NE	0·16	..	1	1	3·9	22
134·4	5·6	bc,b	bc	bc,b,c	c	bc	K	K	5	7	Cu/Cb	Ci/Cu/Cb	N.E.	—/NE	..	..	1	0	10·2	23
170·4	7·1	bc,bw	bc	bc	b	bc,c	K	L	5	3	Cu/Cb	Cb	E.	E.	..	0·02	0	0	11·3	24
201·6	8·4	bc,cp	cjp	c,op,bc	bc	bc,c,oPq,b	K	K	7	6	Cb	Cu/Cb	E.	E.	0·03	0·26	0	0	8·3	25
208·8	8·7	bc,cp	c	c,bc	bcjp	bc,c,oidrR,t	K	K	7	6	Cu/Cb	Cu/Cb	E.N.E.	E.	..	0·90	1	0	10·0	26
201·6	8·4	c,bc	bc	cp,bc	cjp	c,optlRr	K	K	5	7	Ci/Cu/Cb	Cc/Cb	—/E	—/E	0·01	0·35	1	1	7·0	27
165·6	6·9	bc,c,o	o	o,Pq	ojp	o	L	M	9	9	As/St	As/Cb	?/NE	?/NE	0·04	0·13	1	1	0·7	28
158·4	6·6	opP	o	op,c	o	op	L	J	9	9	Ac/Cb	Ac/Cb	—/—	—/NE	0·03	0·01	1	1	1·9	29
5810·4	242·1	....	...	....	...	....	..	..	190	194	.....	.....	....	....	1·21	3·73	..	..	206·2	Totals
200·4	8·3	....	...	....	...	....	..	..	6·6	6·7	.....	.....	....	....	..	..	..	..	7·1	Means

CLOUD AMOUNT.

Number of cases of total cloud amount.

Hour.	0	1/3	4/6	7/9	10
8 a.m.	0	4	8	14	3
2 p.m.	0	2	11	13	3

WIND SUMMARY—No. OF OBSERVATIONS OF—

	Force 8 or more.	4/7.	1/3.	Calms	N.N.W.	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.
8 a.m.	0	9	16	4	0	1	5	5	3	10	0	1	0	0	0	0	0	0	0	0
2 p.m.	0	24	5	0	0	0	2	4	0	14	6	2	0	0	1	0	0	0	0	0
Total	0	33	21	4	0	1	7	9	3	24	6	3	0	0	1	0	0	0	0	0

Prevailing Direction, E.; 8h., E.; Maximum velocity, 34 m.p.h. from N.E at 1000 and 1008 on 18th.

WEATHER DIARY—FEBRUARY, 1940.

Date.

1. N'ly airs to calm early, fine and clear to cloudless, then clear to half cloudy. Light N.E. breeze 0755, increasing force 3, veering E. force 4 0900, falling off 1700, backing N'ly 1900. Shower 2235 to 2245.
2. Light N'ly winds to calm early, fine and cloudless to clear sky, becoming cloudy to overcast about 1530, clearing later. Variable N.E. winds force 1/3 0830; moderate E.S.E. to E. breeze 1310, falling off 1700 backing N'ly. Showers to N.W. during late afternoon.
3. Light to gentle N. to N.N.W. breeze at first. Fine and clear to cloudless all day. N'ly airs to calm 0240. N.N.W. airs 0810 veering N.E'ly force 3 0900, and to E'ly force 4 1255, gradually falling off 1600 to N.N.E. airs to calm. Unusual visibility at times.
4. N'ly airs to calm early. Fine, clear to half cloudy and unusual visibility all day, and light to moderate E.S.E. to E. breeze from 0815. Oppressive night, minimum temperature 81 F.
5. Light to moderate E'ly breeze early, fine and clear sky becoming cloudy 0755. Heavy shower 0820 to 0840 reducing temperature to 79°F., and fresh N.E. squall, then fine and half cloudy. Gentle to fresh E'ly breeze 0940, falling to force 2/3 1800. Very pretty sunset. Variable sky at night. Trace rain 2215. Lightning about 2245. Maximum wind velocity 26 m.p.h. from N.E. at 0820.
6. Light to gentle E.N.E. breeze at first increasing force 3/5 from E. x N. Mainly fine and half cloudy all day, becoming cloudy to overcast at night. Passing shower 1304 (trace). Hazy afternoon. Maximum wind velocity 28 m.p.h. from E. x N. at 1240.
7. N'ly airs to calm early, fine and half cloudy all day, clear sky at night. Light shower 0605 (trace). Gentle E.N.E. breeze 0725, increasing force 4 from E., gradually falling off 1755.
8. N.E. airs to calm early. Fine and half cloudy all day, clear sky at night. Light shower 0605 (trace). Gentle E.N.E. breeze 0725, increasing force 4 from E., gradually falling off 1755.
9. N'ly airs to calm early and overcast, variable sky during the day, half cloudy to clear after 1520. Gentle E. breeze 0610, backing E.N.E. and N.E. Gentle to moderate E. to E.S.E. breeze 0940, falling off 1700 backing E.N.E., and to N'ly airs 2000.
10. N'ly airs to calm early, fine and clear to half cloudy, backing N.W. 0810, veering E.S.E. force 3/4 0830. Light to gentle S.E. to E.S.E. breeze 1740. Sky covered 2100. Trace rain 2215, then clear to cloudless.
11. Light S.E. to E.S.E. breeze early, fine and clear to cloudless. Half cloudy during the day, variable sky at night but mainly half cloudy. N'ly airs 0412. Light to gentle S.S.W. breeze 0820, backing S.S.E. to S.E. 1506. Shower and moderate squall 2220.
12. N'ly airs to calm 0100. Gentle to moderate S'ly breeze 0525 and showers to 0530 backing E.S.E. 0718 force 4/5, with momentary veer to S.S.E. 1340 to 1420, becoming gentle to moderate 1800. Cloudy to overcast early, variable sky after 0850. Showers, with fresh squalls, 1400 to 1420 and 2042 to 2100. Maximum wind velocity 27 m.p.h. from E.S.E. at 1138.
13. Light E'ly breeze falling off 0355 backing N.N.E. becoming variable 0640. Gentle to fresh E. to E.S.E. breeze all day from 0800. Mainly cloudy early and showers 0450 and 0655 to 0710. Half cloudy during the day, variable sky after 1530 and threatening appearance to the N. until 2000. Rain on hills to N. and N.W. during this period. Shower and strong squall 2353 to 2400. Maximum wind velocity 27 m.p.h. from E.S.E. at 2357.
14. Gentle to moderate E. breeze early becoming moderate to fresh after 0830, falling to force 3/4 1610 and to N.E. airs 2200. Fine with variable sky but threatening showers to N. and N.W. at times. Cloudy to overcast after 1030. Trace rain at 1600 and 1730.
15. N.E. airs early and overcast gradually increasing to gentle to moderate to E. to E.S.E. breeze 0700 with some fresh gusts. Thin drizzle 0240 to 0300 and 0812 to 0820 (trace). Variable sky after 0930, mainly half cloudy.
16. Gentle to moderate E'ly breeze early with fresh gusts, fine and half to three-quarter cloudy, becoming overcast with Cs during the afternoon, and later with NB/St. Wind increased force 4/6 with high gusts 1700. Thin drizzle 1730, intermittent rain 2000. Maximum wind velocity 32 m.p.h. from E. x S. at 2218.

Date.

17. Moderate to strong E. breeze all day with high gusts and squalls gradually backing N.E., and overcast with intermittent rain and drizzle to 1415 and from 1930. Maximum wind velocity 33 m.p.h. from E. at 0924.
18. Overcast all day with scud from N.E. Light to heavy intermittent rain and drizzle to 1405 and light rain 1850 to 1915. Gentle to fresh N.E. winds with frequent strong to high gusts and squalls, moderating 1605. Maximum wind velocity 34 m.p.h. from N.E. at 1000 and 1008.
19. Shower 0030 to 0040. Overcast all day, and light to moderate N.N.E. breeze with occasional fresh gusts. Light intermittent rain and drizzle 0500 to 1200. Intermittent rain, fairly heavy at times, 1720 to 2400.
20. Mainly overcast all day and ugly, but bright intervals 0930 to 1210. Gentle N.N.E. to E.N.E. breeze becoming gentle to strong gusty 0900, falling off 1800. Shower 1045 to 1050. Light intermittent rain and drizzle from 1355. Maximum wind velocity 29 m.p.h. from N.E. x N. at 1013.
21. Overcast with intermittent rain and drizzle to 0510. N.E. airs to calm at first, freshening 0812, falling off 1820. Shower 0900 to 0905 then variable sky mainly half cloudy. Ac clouds predominating at night. Maximum wind velocity 27 m.p.h. from N.E. at 1318.
22. Variable sky early mainly half cloudy and light N.E. winds to calm, becoming squally and gusty force 2/6 0720. Light to moderate showers 0215 to 1140, with heavy showers 0720 to 0730, then fine with variable sky. Ac clouds predominating at night. Maximum wind velocity 27 m.p.h. from N.N.E. at 0902.
23. N.N.E. airs to calm early, fine and clear sky becoming half cloudy. Light N.N.E. breeze 0750, gradually increasing force 4/5 veering E'ly, falling off 1700 backing N.E. Lunar halo 2005 to about 2120. Maximum wind velocity 27 m.p.h. from E. at 1420.
24. N'ly airs to calm early and dew. Fine and clear to half cloudy all day. Gentle E. breeze 0740 increasing force 4 veering E.S.E., falling to force 2/3 1800.
25. Light to gentle E.S.E. breeze early backing N.E'ly 0345. Half cloudy to cloudy. Showers 0630 to 0645 and 0910 to 0913. Moderate E. x N. breeze 0950 falling to N.N.E. 2 1045 and sky covered. Gentle to fresh E'ly breeze 1110 and mainly half cloudy. Gentle breeze 1800. Trace rain 1915, heavy shower and E. x S. squall 2125 to 2145, then fine and clear sky. Maximum wind velocity 27 m.p.h. from E. at 1220 and from E. x S. at 2138.
26. Light to moderate E.N.E. to N.E. winds early becoming moderate to fresh E. Cloudy and showers 0510 to 0700. Half cloudy after 0830. Cloudy to overcast and intermittent drizzle and rain 1710 to about 2330 with heavy falls 2040 to 2110. Wind backed N.E. squally force 1/5 1810. Distant thunder 2208 to 2230.
27. N.E'ly winds early; calm 0600, and half cloudy to cloudy, becoming overcast 1510. Showers 1010 to 1020, 1608 and 2315 to 2400. Slight thunderstorm 1735 to 1910 and heavy to light rain 1845 to 1950, then cloudy. Light N.E. breeze 0812 veering E. 0902 increasing force 3/5 0940, gradually falling off 1600 backing N.N.E.
28. Light N.E'ly winds early, fine and half cloudy, becoming overcast about 0630. Gentle to moderate N.E'ly breeze 0918 with occasional fresh gusts, gradually falling off 1600. Heavy shower and squall 1305 to 1310. Red sunset.
29. Cloudy to overcast all day. Light N.E. breeze at first; variable airs to calm 0200. Light to heavy showers of short duration 0420 to 0710, 1110 to 1420 and 2035. Light to gentle N.N.E. breeze 0900, veering E'ly force 3/4 1200.

ADDITIONAL NOTES.

A dry and hot month particularly during the first half. The latter half of the month was rather cloudy with light rain on most days.

Mean pressure at 8 a.m. was 0·041″ and mean temperature 2·1° above normal. Rainfall was deficient by 6·15″.

Disturbed condition developed in vicinity of Funafuti and Rotuma on 16th. Eventually a cyclonic storm, moving S.W. passed near Vila, New Hebrides, on 18th and 19th where pressure fell to 28·73″.

G. B. NASMYTH,
Harbour Master.

Suva, 1st March, 1940.

Meteorological Observations

TAKEN AT SUVA, FIJI,

DURING MARCH, 1940.

Latitude, 18° 8′ South. Longitude, 178° 26′ East.

HOURS OF OBSERVATION.

(i) 8 a.m. or 2000 G.M.T. (ii) 2 p.m. or 0200 G.M.T.

Local Standard Time being 12 hours fast of Greenwich Mean Time.

Height of Cistern of Barometer above Mean Sea Level, 12 feet; Site of Rain gauge, 8 feet; Diameter of Rain-gauge, 8 inches. Height of other Instruments above ground:—Rim of Rain-gauge, 12 inches; Thermometers, 4 feet 6 inches; Sunshine Recorder, 3 feet 3 inches; Vane of Dine's Pressure Tube Anemometer, 48 feet 6 inches; Robinson Cup Anemometer (run of the wind pattern), 41 feet 6 inches

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Maximum Thermometer set at 8 h. Read at 8 h.

Minimum Thermometer set at 8 h. Read at 8 h.

Grass Min. Thermometer set at 16 h. Read at 8 h.

MARCH.

Day.	Attached thermometer and barometer as read in inches. I (1)	Attached thermometer and barometer as read in inches. I (2)	Attached thermometer and barometer as read in inches. II (3)	Attached thermometer and barometer as read in inches. II (4)	Air Pressure at Mean Sea Level in the Units of Measurement. I (5)	Air Pressure at Mean Sea Level in the Units of Measurement. II (6)	Temperature (degrees F.) In Screen. I Dry. (7)	In Screen. I Wet. (8)	In Screen. II Dry. (9)	In Screen. II Wet. (10)	In Open. Maximum. (11)	In Open. Minimum. (12)	In Open. Grass Min. Eve to Morn. (13)	In Open. Max. in Sun. Black Bulb in vacuo. (14)	In Ground. 1 foot. (15)	In Ground. 4 feet. (16)	Humidity. Dew Point. I (17)	Dew Point. II (18)	Vapour Pressure. I (19)	Vapour Pressure. II (20)
							Tenths.				Whole Degrees.				Tenths.					
	°	"	°	"	"	"	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.
1	82	30·152	84	30·094	29·955	29·892	82·0	77·0	85·8	78·4	87	76	72	137	84·0	83·0	75	75	29·5	30·0
2	82	30·134	85	30·086	29·937	29·881	82·0	77·2	86·0	80·0	88	77	71	152	83·2	82·5	75	78	29·5	32·3
3	82	30·106	85	30·056	29·909	29·851	78·6	77·0	87·3	81·1	88	75	72	151	83·7	82·4	77	79	31·6	33·5
4	82	30·060	85	30·008	29·863	29·803	81·2	77·0	86·0	79·4	87	77	73	150	84·0	82·4	75	77	29·9	31·5
5	83	30·026	85	29·956	29·827	29·751	83·2	78·4	85·6	78·8	87	78	73	148	84·6	83·0	76	76	30·5	30·7
6	83	29·980	86	29·930	29·781	29·723	82·0	76·2	86·4	78·2	88	76	73	146	84·2	83·0	73	75	28·0	29·2
7	82	29·930	87	29·876	29·733	29·666	81·2	78·0	89·0	81·6	90	77	75	151	84·8	83·1	77	79	31·4	33·4
8	83	29·886	85	29·858	29·687	29·653	81·8	77·2	82·0	80·6	89	76	71	150	84·8	83·3	76	80	30·2	34·9
9	82	29·898	84	29·862	29·701	29·660	82·0	78·4	83·6	79·2	87	76	73	139	84·2	83·4	77	78	31·7	32·4
10	84	29·910	85	29·862	29·708	29·657	82·2	78·6	84·6	80·0	86	76	71	135	84·0	83·4	77	79	31·7	33·6
11	81	29·894	84	29·872	29·701	29·670	80·3	78·3	85·0	79·0	87	75	73	121	83·1	83·3	77	77	31·9	31·2
12	83	29·956	87	29·914	29·757	29·704	82·4	79·6	89·0	81·2	89	77	74	143	83·3	83·2	78	78	32·5	32·6
13	84	30·006	88	29·954	29·804	29·741	84·2	79·8	88·8	79·8	90	78	74	153	84·0	83·2	78	76	32·4	31·0
14	84	30·044	87	30·004	29·842	29·794	80·0	77·4	88·0	80·8	88	77	72	154	84·0	83·1	76	78	31·1	33·0
15	83	30·044	86	30·006	29·845	29·799	82·2	77·8	88·0	79·4	89	75	71	148	84·2	83·4	76	76	30·2	30·6
16	82	30·050	87	30·020	29·853	29·810	81·0	78·2	83·2	81·0	89	77	72	151	84·4	83·4	77	80	31·4	35·3
17	83	30·040	84	29·982	29·841	29·780	79·0	76·2	84·4	79·0	85	77	75	137	84·8	83·5	75	76	29·3	30·9
18	79	30·030	82	29·978	29·842	29·781	77·4	75·6	81·2	78·2	83	74	73	130	83·0	83·4	74	77	28·8	31·4
19	78	30·058	83	30·028	29·873	29·829	77·5	75·2	84·8	77·0	86	74	72	132	83·0	83·4	74	73	28·4	28·1
20	80	30·087	84	30·056	29·897	29·854	80·2	74·8	86·2	76·0	87	73	69	152	82·6	83·2	72	71	26·7	26·2
21	77	30·084	84	30·036	29·902	29·834	75·4	72·4	85·8	75·8	87	70	65	149	82·4	83·0	71	71	25·5	26·2
22	80	30·052	84	30·014	29·862	29·812	77·8	73·0	85·2	75·0	87	71	66	150	83·0	83·0	71	70	25·5	25·2
23	79	30·084	84	30·038	29·896	29·836	76·6	73·6	85·4	75·0	87	74	70	153	83·0	82·7	73	69	27·3	24·5
24	82	30·108	85	30·074	29·911	29·869	81·2	77·0	88·2	78·4	89	74	72	151	83·0	82·6	75	74	29·9	28·3
25	83	30·144	86	30·106	29·945	29·899	82·2	78·0	85·2	79·6	89	76	70	153	83·2	82·8	76	77	31·0	32·0
26	83	30·144	84	30·092	29·945	29·890	83·0	79·2	81·0	79·4	87	78	73	144	83·2	82·8	77	79	32·1	33·7
27	81	30·130	83	30·086	29·937	29·887	79·0	77·4	80·8	77·8	87	78	74	137	83·1	83·0	77	77	31·6	31·4
28	80	30·112	82	30·084	29·922	29·887	76·4	74·4	82·0	77·2	83	72	71	112	82·2	82·8	73	75	27·8	29·5
29	80	30·090	81	30·046	29·900	29·853	80·8	77·2	79·4	77·8	84	75	71	119	82·0	82·3	76	77	30·7	31·6
30	78	30·074	80	30·020	29·889	29·830	77·0	75·5	79·0	77·8	82	74	71	109	81·2	82·3	75	78	29·5	32·3
31	79	30·026	79	29·980	29·838	29·792	77·0	75·4	79·0	76·6	80	74	72	107	81·0	82·2	75	75	29·5	30·1
Tls.	2524	931·339	2615	929·978	925·303	923·688	2486·8	2381·0	2625·9	2439·1	2692	2337	2224	4364	2585·2	2527·1	2334	2360	927·1	956·6
Mns	81·4	30·043	84·4	29·999	29·848	29·796	80·2	76·8	84·7	78·7	86·8	75·4	71·7	140·8	83·4	83·0	75·3	76·1	29·9	31·9

Temperature—
Daily Range: Mean Max.—Mean Min. —11·4°
Greatest Range—17° on 21st.
Least Range—6° on 31st.
Mid Temperature: ½ [Max. + Min.]—81·1°.
Highest Maximum—90° on 7th and 13th.
Lowest Minimum—70° on 21st.
Lowest Maximum—80° on 31st.
Highest Minimum—78° on 5th, 13th, 26th and 27th.
Lowest Grass Minimum—65° on 21st.

Humidity—
Greatest Humidity—94 per cent. on 8th and 30th at 2 p.m.
Least Humidity—60 per cent. on 23rd at 2 p.m.

Air Pressure—
Highest Value at M.S.L.—29·955″ on 1st at 8 a.m.
Lowest Value at M.S.L.—29·653″ on 8th at 2 p.m.

No. of Days of—
Rain—30.
Hail—0.
Thunderstorms—7.
Fog—0.
Gales (force 8 or more)—0.

Rainfall—
Total—17·04″ or 432·82 mm.
Average for 56 years—14·90″.
Difference from normal—+2·14″.
Greatest fall in 24 hours—2·51″ or 63·75 mm
Total since 1st January—27·56″.

VISIBILITY SUMMARY—No. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8 a.m.	0	0	0	0	0	0	1	0	0	0	4	11	7	8
2 p.m.	0	0	0	0	0	0	0	0	1	3	2	9	9	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—4½ miles, J—6¼ miles, K—12½ miles, L—18⅞ miles, M—31 miles.

MARCH.

Wind. Miles run for previous 24 hours.	Wind. Mean velocity.	Weather for 24 hours ending midnight. (Beaufort Letters). Before Obser'tion.	At time of Obser'tion.	Between Obser'tion hours.	At time of Obser'tion.	After Obser'tion.	Visibility.		Cloud. Amount (0–10).		Form.		Direction whence coming.		Amount of Rain. 6 hours during the day measured at 14h.	18 hours measured next morning at 8h.	State of ground.		Sunshine (hours and tenths).	Day.
		I	I	I and II	II	II	I	II	I	II	I	II	I	II			I	II		
(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	44	45	(46)	
															"	"				
86·4	3·6	o,c,bc	c	c,oir	ojp	od,c,bc	K	K	7	9	Sc	Cs/Cb	E.N.E.	?/E.N.E.	0·13	0·01	1	1	2·7	1
132·0	5·5	bc,c,oz	oz	oz,P,bc	c	bc,c,oR	J	K	9	7	As/Cb/St	Sc	?/E.	E.	0·20	0·42	1	1	5·5	2
184·8	7·7	c,op	o	o,c,bc	bc	bc,c,op	K	K	10	5	St/Nb	Sc	E.	E.	..	0·19	1	0	8·0	3
211·2	8·8	op,c	o	o,c,bc	bc	c,opl,bc	L	M	9	6	St	Ci/Cu	E.	WNW/ESE	..	0·02	1	1	6·9	4
156·0	6·5	bcv	bcv	bcv,c	cv	op,c,bc	M	M	5	8	Cu/Cb	Ac/Cu/Cb	E.	ESE/ESE	..	0·08	1	0	4·7	5
148·8	6·2	oid,c,bc	bcv	bcv	bcv	c,ou,bcl	M	M	4	4	Cu	Cu/Cb	E.	E.	..	0·63	1	0	8·8	6
153·6	6·4	oPq,bc,bv	bcv	bcv,cp	bcv	bcv,jp,bw	M	M	4	6	Cu/Cb	Ci/Cu/Cb	N.	?/N.E.	0·01	..	1	0	7·5	7
136·8	5·7	b,bc,cv	bcv	bcv,cqtRr	ojp	OTLRrpbc,b	M	L	6	9	Ci/Sc/Cu	Nb/St	SW/N	E.N.E.	0·41	0·42	0	1	3·6	8
103·2	4·3	c,bc,c	c	bc,c,oR	o	o,c,bc,bw	M	L	7	9	Ci/Ac/Cu	As/Cu/St	—/—/—	—/—	0·31	..	1	1	3·5	9
93·6	3·9	b,bcv	bcv	bcv,cPp	cjp	c,oRrqtl	M	K	4	6	Ci/Cu	Ci/Cu/Cb	—/NE	WNW/NE	0·59	1·92	1	1	3·3	10
129·6	5·4	oRr	o	op	ojp	op,bc,oiRr	L	L	9	9	Cs/Cb/St	Cs/Cu/Cb	?/NNE	—/N	0·02	0·38	2	1	0·0	11
141·6	5·9	op,c	cjp	c,o,bc	cjp	c,bcl,bw	L	M	7	8	Ci/Cu/Cb	Ci/Cu/Cb	—/NE	—/NE	..	..	1	1	8·5	12
175·2	7·3	b,bc	bc	bcv,cp	cv	cv,bc,oqPb	M	M	5	8	Ci/Cu	Ci/Cu/Cb	—/NE	—/NE	Trace	0·38	1	0	8·5	13
141·6	5·9	b,bc	cp	cp,bc	bc	bc,bw	J	M	7	4	Cu/Cb	Cu/Cb	N.E.	E.S.E.	0·01	..	1	1	10·2	14
158·4	6·6	b	b	b,bc,cp	c	cp,bc,oiR,p	M	K	3	7	Ci/Cu	Ac/Sc/Cu/Cb	?/ENE	—/ENE	0·01	0·41	0	0	8·3	15
153·6	6·4	cp,bc	bcjp	bc	bc	bc,cplo	J	K	4	6	Ci/Cu/Cb	Cu/Cb	?/E	E.S.E.	..	0·24	1	0	9·2	16
208·8	8·7	c,op	c	bc,c,o	c	oidrtl	K	K	8	7	Cb	Sc	E.S.E.	E.	..	2·08	1	0	1·0	17
139·2	5·8	oRd	o	c,oid	oid	oidr,p	K	H	9	10	As/St	Nb/St	—/NE	E.S.E.	0·03	0·29	2	2	0·3	18
129·6	5·4	op	op	o	ojp	oidr,c,bc	K	L	10	9	Cs/Nb	Ac/Cb	—/ESE	W/SE	Trace	0·29	1	1	1·0	19
124·8	5·2	bc,cp	bcjp	bc	brz	c,oP,bc,b	K	K	6	4	Ci/Cb	Cu	W/E	E.S.E.	..	0·09	1	1	8·7	20
168·0	7·0	b,bc	bc	bc,b	b	bc,cp,b	L	L	4	3	Cu	Cu	E.	E.S.E.	..	0·01	1	0	9·2	21
151·2	6·3	b,bc	bc	bc,cp	bc	bc,bw	L	L	4	4	Cu	Cb	....	....	0·01	Trace	0	0	8·6	22
122·4	5·1	bc	bc	bc,b	bc	bc,bw	L	L	6	5	Cu/Nb	Cu	....	E.N.E.	..	0·04	0	0	8·8	23
148·8	6·2	cp,b	b	b,c,bc	bc	cp,bc,b	L	L	2	6	Sc/Cu	Cu/Cb	N.E.	E.N.E.	Trace	0·06	0	0	10·3	24
134·4	5·6	b,bc	bc	bc,c	cjpu	otlRdcp,bc	K	J	5	8	Cu/Cb	Ac/Cb/Nb	E.N.E.	ENE/ENE	..	0·38	0	0	5·5	25
156·0	6·5	b,bcp	cjp	bc,c,orq	ojp	oirdtl	J	J	7	9	Cu/Cb	As/Nb	E.N.E.	?/NE	0·10	0·20	1	1	3·8	26
136·8	5·7	oqp	o	bc,cot	oid	oidrRq	K	L	10	9	As/St	As/St	?/NE	?/NE	Trace	1·40	1	1	1·9	27
132·0	5·5	o,iR	oiR	oiR,d	ojp	oiR,d	F	K	10	9	Nb/St	As/Nb	E.	?/E.	0·24	0·36	2	2	0·1	28
84·0	3·5	o,c	o	oiRr	oir	oiRqr	K	I	9	10	Ac/Cb	As/Nb/St	N/NE	E.	0·70	0·62	2	2	1·0	29
98·4	4·1	oirq	ojp	oirR	oir	oiRr,d	K	I	9	10	Ac/As/Cb	As/Nb	NNE/NE	N.E.	0·79	0·55	2	2	0·0	30
103·2	4·3	oird	o	oird	oir	oidrR	K	I	10	10	As	St	....	....	0·03	1·98	2	2	0·0	31
4344·0	181·0	....	...	....	...	....	..	..	209	224	.....	.....	....	....	3·59	13·45	..	..	159·4	Totals
140·1	5·8	....	...	....	...	....	..	..	6·7	7·2	.....	.....	....	....	..	..	..	..	5·1	Means

CLOUD AMOUNT.

Number of cases of total cloud amount.

Hour.	0	1/3	4/6	7/9	10
8 a.m.	0	2	12	12	5
2 p.m.	0	1	11	15	4

WIND SUMMARY.

	Force 8 or more.	4/7.	1/3.	Calms.	N.N.W.	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.
8 a.m.	0	0	24	7	0	2	2	11	2	4	2	1	0	0	0	0	0	0	0	0
2 p.m.	0	14	16	1	0	3	0	4	1	6	11	5	0	0	0	0	0	0	0	0
Total	0	14	40	8	0	5	2	15	3	10	13	6	0	0	0	0	0	0	0	0

Prevailing direction, N.E.; 8h., N.E.; 14h. E.S.E. Maximum velocity, 31 m.p.h. from N.E. at 1248 on 26th.

MARCH.

Day.	Attached thermometer and barometer as read in inches. I		II		Air Pressure at Mean Sea Level in the Units of Measurement. I	II	Temperature (degrees F.) In Screen. Dry. I	Wet. I	Dry. II	Wet. II	In Open. Maximum.	Minimum.	Grass Min. Eve to Morn.	Max. in Sun. Black Bulb in vacuo.	In Ground. 1 foot. I	4 feet. I	Humidity. Dew Point. I	II	Vapour Pressure. I	II	Percentage. I	II	Wind Direction and Force (Beaufort Scale). I		II	
							Tenths.				Whole Degrees.				Tenths.											
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	24	(25)	26
	°	"	°	"	"	"	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.			Dir.	F	Dir.	F
1	82	30·152	84	30·094	29·955	29·892	82·0	77·0	85·8	78·4	87	76	72	137	84·0	83·0	75	75	29·5	30·0	79	71	E.	2	E.	3
2	82	30·134	85	30·086	29·937	29·881	82·0	77·2	86·0	80·0	88	77	71	152	83·2	82·5	75	78	29·5	32·3	80	76	EXS	3	EXS	4
3	82	30·106	85	30·056	29·908	29·851	78·6	77·0	87·3	81·1	88	75	72	151	83·7	82·4	77	79	31·6	33·5	93	76	S.E.	2	EXS	4
4	82	30·060	85	30·008	29·863	29·803	81·2	77·0	86·0	79·4	87	77	73	150	84·0	82·4	75	77	29·9	31·5	82	74	EXS	2	SEXS	3
5	83	30·026	85	29·956	29·827	29·751	83·2	78·4	85·6	78·8	87	78	73	148	84·6	83·0	76	76	30·5	30·7	80	73	E S.E.	2	SEXE	3
6	83	29·980	86	29·930	29·781	29·723	82·0	76·2	86·4	78·2	88	76	73	146	84·2	83·0	73	75	28·0	29·2	76	68	E.S.E.	2	E.S.E.	3
7	82	29·930	87	29·876	29·733	29·666	81·2	78·0	89·0	81·6	90	77	75	151	84·8	83·1	77	79	31·4	33·4	86	72	Calm	0	EXS	4
8	83	29·886	85	29·858	29·687	29·653	81·8	77·2	82·0	80·6	89	76	71	150	84·8	83·3	76	80	30·2	34·9	81	94	E.N.E.	1	E.S.E.	2
9	82	29·898	84	29·862	29·701	29·660	82·0	78·4	83·6	79·2	87	76	73	139	84·2	83·4	77	78	31·7	32·4	85	82	Calm	0	N.	2
10	84	29·910	85	29·862	29·708	29·657	82·2	78·6	84·6	80·0	86	76	71	135	84·0	83·4	77	79	31·7	33·6	85	81	N.E.	2	SEXE	4
11	81	29·894	84	29·872	29·701	29·670	80·3	78·3	85·0	79·0	87	75	73	121	83·1	83·3	77	77	31·9	31·2	91	76	N.N.E.	3	N.	3
12	83	29·956	87	29·914	29·757	29·704	82·4	79·6	89·0	81·2	89	77	74	143	83·3	83·2	78	78	32·5	32·6	88	70	NEXE	2	N.E.	4
13	84	30·006	88	29·954	29·804	29·741	84·2	79·8	88·8	79·8	90	78	74	153	84·0	83·2	78	76	32·4	31·0	82	66	N.E.	3	N.E.	4
14	84	30·044	87	30·004	29·842	29·794	80·0	77·4	88·0	80·8	88	77	72	154	84·0	83·1	76	78	31·1	33·0	89	72	N.E.	2	E.S.E.	4
15	83	30·044	86	30·006	29·845	29·799	82·2	77·8	88·0	79·4	89	75	71	148	84·2	83·4	76	76	30·2	30·6	82	67	Calm	0	E.S.E.	4
16	82	30·050	87	30·020	29·853	29·810	81·0	78·2	83·2	81·0	89	77	72	151	84·4	83·4	77	80	31·4	35·3	88	91	N.E.	2	E.S.E.	5
17	83	30·040	84	29·982	29·841	29·780	79·0	76·2	84·4	79·0	85	77	75	137	84·8	83·5	75	76	29·3	30·9	87	78	NEXN	2	E.S.E.	3
18	79	30·030	82	29·978	29·842	29·781	77·4	75·6	81·2	78·2	83	74	73	130	83·0	83·4	74	77	28·8	31·4	92	87	N.E.	2	SEXE	4
19	78	30·058	83	30·028	29·873	29·829	77·5	75·2	84·8	77·0	86	74	72	132	83·0	83·4	74	73	28·4	28·1	90	69	N.N.E.	1	SEXE	2
20	80	30·087	84	30·056	29·897	29·854	80·2	74·8	86·2	76·0	87	73	69	152	82·6	83·2	72	71	26·7	26·2	77	61	EXS	3	E.S.E.	4
21	77	30·084	84	30·036	29·902	29·834	75·4	72·4	85·8	75·8	87	70	65	149	82·4	83·0	71	71	25·5	26·2	86	62	Calm	0	E.S.E.	3
22	80	30·052	84	30·014	29·862	29·812	77·8	73·0	85·2	75·0	87	71	66	150	83·0	83·0	71	70	25·5	25·2	79	61	Calm	0	E.S.E.	4
23	79	30·084	84	30·038	29·896	29·836	76·6	73·6	85·4	75·0	87	74	70	153	83·0	82·7	73	69	27·3	24·5	86	60	N.	2	E.S.E.	4
24	82	30·108	85	30·074	29·911	29·869	81·2	77·0	88·2	78·4	89	74	72	151	83·0	82·6	75	74	29·9	28·3	82	63	NEXN	1	EXN	3
25	83	30·144	86	30·106	29·945	29·899	82·2	78·0	85·2	79·6	89	76	70	153	83·2	82·8	76	77	31·0	32·0	82	78	N.E.	2	EXS	4
26	83	30·144	84	30·092	29·945	29·890	83·0	79·2	81·0	79·4	87	78	73	144	83·2	82·8	77	79	32·1	33·7	84	93	E.N.E.	3	E.N.E.	2
27	81	30·130	83	30·086	29·937	29·887	79·0	77·4	80·8	77·8	87	78	74	137	83·1	83·0	77	77	31·6	31·4	93	87	NEXN	2	N.E.	2
28	80	30·112	82	30·084	29·922	29·887	76·4	74·4	82·0	77·2	83	72	71	112	82·2	82·8	73	75	27·8	29·5	91	80	NXW	1	E.S.E.	3
29	80	30·090	81	30·046	29·900	29·853	80·8	77·2	79·4	77·8	84	75	71	119	82·0	82·3	76	77	30·7	31·6	84	93	N.E.	1	Calm	0
30	78	30·074	80	30·020	29·889	29·830	77·0	75·5	79·0	77·8	82	74	71	109	81·2	82·3	75	78	29·5	32·3	93	94	Calm	0	N.	1
31	79	30·026	79	29·980	29·838	29·792	77·0	75·4	79·0	76·6	80	74	72	107	81·0	82·2	75	75	29·5	30·1	93	89	Calm	0	NEXN	1
Tls.	2524	931·339	2615	929·978	925·303	923·688	2486·8	2381·0	2625·9	2439·1	2692	2337	2224	4364	2585·2	2527·1	2334	2360	927·1	956·6	2646	2384	...	..	...	..
Mns	81·4	30·043	84·4	29·999	29·848	29·796	80·2	76·8	84·7	78·7	86·8	75·4	71·7	140·8	83·4	83·0	75·3	76·1	29·9	31·9	85·4	76·3	...	..	...	..

Temperature—
- Daily Range: Mean Max.—Mean Min.—11·4°
- Greatest Range—17° on 21st.
- Least Range—6° on 31st.
- Mid Temperature: ½ [Max. + Min.]—81·1°.
- Highest Maximum—90° on 7th and 13th.
- Lowest Minimum—70° on 21st.
- Lowest Maximum—80° on 31st.
- Highest Minimum—78° on 5th, 13th, 26th and 27th.
- Lowest Grass Minimum—65° on 21st.

Humidity—
- Greatest Humidity—94 per cent. on 8th and 30th at 2 p.m.
- Least Humidity—60 per cent. on 23rd at 2 p.m.

Air Pressure—
- Highest Value at M.S.L.—29·955″ on 1st at 8 a.m.
- Lowest Value at M.S.L.—29·653″ on 8th at 2 p.m.

No. of Days of—
- Rain—30.
- Hail—0.
- Thunderstorms—7.
- Fog—0.
- Gales (force 8 or more)—0.

Rainfall—
- Total—17·04″ or 432·82 mm.
- Average for 56 years—14·90″.
- Difference from normal—+2·14″.
- Greatest fall in 24 hours—2·51″ or 63·75 mm. on 10th.
- Total since 1st January—27·56″.

VISIBILITY SUMMARY—No. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8 a.m.	0	0	0	0	0	0	1	0	0	0	4	11	7	8
2 p.m.	0	0	0	0	0	0	0	0	1	3	2	9	9	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—18⅝ miles, M—31 miles.

Meteorological Observations

TAKEN AT SUVA, FIJI,

DURING APRIL, 1940.

Latitude, 18° 8′ South. Longitude, 178° 26′ East.

HOURS OF OBSERVATION.

(i) 8 a.m. or 2000 G.M.T. (ii) 2 p.m. or 0200 G.M.T.

Local Standard Time being 12 hours fast of Greenwich Mean Time.

Height of Cistern of Barometer above Mean Sea Level, 12 feet; Site of Rain gauge, 8 feet; Diameter of Rain-gauge, 8 inches. Height of other Instruments above ground:—Rim of Rain-gauge, 12 inches; Thermometers, 4 feet 6 inches; Sunshine Recorder, 3 feet 3 inches; Vane of Dine's Pressure Tube Anemometer, 48 feet 6 inches; Robinson Cup Anemometer (run of the wind pattern), 41 feet 6 inches

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Maximum Thermometer set at 8 h. Read at 8 h.

Minimum Thermometer set at 8 h. Read at 8 h.

Grass Min. Thermometer set at 16 h. Read at 8 h.

APRIL.

Day.	Attached thermometer and barometer as read in inches.				Air Pressure at Mean Sea Level in the Units of Measurement.		Temperature (degrees F.)										Humidity.						Wind Direction and Force (Beaufort Scale).			
							In Screen.						In Open.		In Ground.		Dew Point.		Vapour Pressure.		Per-centage.					
	I		II		I	II	Dry. I	Wet. I	Dry. II	Wet. II	Maximum.	Minimum.	Grass Min. Eve to Morn.	Max. in Sun. Black Bulb in vacuo.	1 foot. I	4 feet. I	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)	(19)	(20)	(21)	(22)	(23)	24	(25)	26
	°	"	°	"	"	"	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.			Dir.	F	Dir.	F
1	78	29·988	80	29·935	29·803	29·745	76·2	74·4	80·2	76·2	83	74	72	112	79·4	82·1	73	74	27·8	28·9	92	83	E.	3	E.S.E.	4
2	79	29·998	82	29·958	29·810	29·761	79·0	68·6	84·8	70·6	85	75	69	140	79·0	82·1	62	63	19·1	19·7	56	47	E.S.E.	3	E.S.E.	3
3	77	30·020	82	29·990	29·838	29·793	75·2	71·4	81·8	72·0	86	70	64	127	79·8	81·8	69	67	24·1	22·4	83	61	N.E.	1	ENE	4
4	77	30·022	79	29·980	29·840	29·792	75·0	73·4	78·1	73·1	82	73	71	107	80·1	81·3	73	71	27·5	25·5	92	78	ENE	3	E.	4
5	79	30·020	79	30·000	29·832	29·812	77·2	74·0	76·5	73·1	79	74	71	101	80·0	81·2	73	72	27·3	26·6	86	84	ENE	3	S.E.	3
6	77	30·060	77	30·016	29·878	29·834	74·2	73·0	74·7	73·2	77	71	69	97	80·0	81·0	72	73	27·3	27·5	94	93	NEXN	1	E.N.E.	4
7	76	30·048	77	29·996	29·869	29·814	74·2	74·0	76·1	76·0	78	71	70	91	79·0	81·0	74	76	28·7	30·7	99	99	E.N.E.	4	N.E.	2
8	77	29·968	78	29·936	29·786	29·751	76·2	75·2	75·2	73·2	82	74	71	101	78·2	80·6	75	72	29·2	26·8	95	91	N.E.	1	E.	6
9	77	29·966	79	29·920	29·784	29·732	77·0	73·0	79·4	75·4	81	74	71	105	78·2	80·8	71	73	26·0	27·9	82	83	NEXN	4	EXS	5
10	78	29·964	80	29·920	29·779	29·730	78·6	76·4	80·4	77·2	82	75	72	105	78·8	80·2	76	76	30·8	30·3	90	86	N.E.	2	EXN	3
11	79	29·976	82	29·900	29·788	29·703	78·4	76·4	83·6	79·4	84	73	69	136	78·8	79·8	75	78	29·8	33·2	91	83	NEXN	2	E.	3
12	77	29·956	81	29·916	29·774	29·723	75·4	74·4	81·2	77·8	83	74	71	101	79·2	79·5	74	76	28·2	30·7	95	86	N.N.W.	1	S.	2
13	78	29·950	81	29·896	29·765	29·703	77·0	75·8	81·1	77·7	83	76	72	101	79·6	79·8	76	76	30·2	30·7	94	85	Calm	0	SEXE	4
14	78	30·028	78	30·006	29·843	29·821	75·7	73·6	77·8	72·0	79	76	72	97	79·8	79·8	73	69	27·8	24·1	91	75	S.S.E.	3	SEXE	3
15	76	30·104	78	30·050	29·925	29·865	75·0	72·0	77·6	73·7	79	75	70	120	79·6	80·0	71	72	25·5	26·9	86	82	N.N.E.	1	EXS	3
16	77	30·110	78	30·054	29·928	29·869	76·0	75·0	77·0	76·0	79	75	72	98	79·0	79·7	75	76	29·2	30·2	95	95	E.	1	E.S.E.	4
17	77	30·080	80	30·012	29·898	29·822	76·0	75·0	80·0	76·4	81	75	73	103	79·0	79·6	75	75	29·2	29·6	95	84	NEXN	2	NEXN	3
18	79	30·096	84	30·036	29·908	29·834	79·2	76·3	87·9	79·0	89	75	72	153	79·1	79·7	75	75	29·3	29·9	87	66	NEXN	1	N.N.E.	3
19	80	30·172	83	30·092	29·982	29·893	79·0	77·0	82·7	78·1	85	77	73	140	79·8	80·0	76	77	30·8	31·3	91	81	Calm	0	S.	3
20	80	30·194	83	30·108	30·004	29·909	79·8	75·2	82·9	76·5	84	77	73	131	81·0	80·5	74	74	28·2	23·3	80	74	E.S.E.	2	E.S.E.	3
21	80	30·160	81	30·114	29·970	29·921	78·0	73·4	79·0	73·0	81	74	71	90	80·2	80·7	71	70	26·2	25·1	80	74	E.S.E.	2	S.E.	3
22	80	30·152	82	30·106	29·962	29·909	79·3	71·0	82·0	76·0	83	72	71	118	80·0	80·1	66	73	21·7	28·0	65	75	SEXE	2	E.	3
23	78	30·150	77	30·110	29·965	29·928	76·0	71·0	76·3	71·3	80	72	70	97	80·0	80·0	68	68	23·7	23·7	78	78	E.S.E.	3	SEXE	3
24	77	30·142	78	30·104	29·960	29·919	75·6	69·8	77·6	71·0	80	70	69	90	79·0	79·0	67	68	22·4	23·5	74	71	S.E.	2	E.S.E.	3
25	74	30·164	77	30·106	29·990	29·924	73·4	70·2	75·4	67·5	77	69	68	110	78·8	79·8	68	62	23·7	19·0	85	65	W.N.W.	1	S.	2
26	76	30·168	77	30·102	29·989	29·920	74·2	67·0	78·0	68·2	78	69	66	110	78·0	79·7	63	62	19·5	18·9	67	59	SEXE	3	S.E.	3
27	76	30·164	78	30·104	29·985	29·919	74·9	65·0	78·3	69·0	80	68	61	86	78·0	79·6	58	63	16·6	19·6	56	60	E.	3	EXS	2
28	76	30·180	79	30·101	30·001	29·913	74·4	68·3	80·9	69·0	81	71	67	137	77·0	79·5	64	62	20·7	18·9	71	52	Calm	0	E.	2
29	75	30·146	79	30·108	29·969	29·920	72·9	70·3	80·2	72·4	81	70	65	102	77·3	79·2	69	68	24·4	23·3	87	67	N.N.E.	1	E.S.E.	3
30	77	30·126	80	30·072	29·944	29·882	76·9	71·0	80·3	72·1	81	71	67	119	77·8	79·1	68	68	23·3	23·3	74	66	NEXN	1	EXS	3
Tls.	2325	902·272	2389	900·748	896·769	895·061	2289·9	2181·1	2387·0	2216·1	2443	2190	2092	3325	2373·5	2407·2	2124	2129	778·2	784·5	2511	2283	...	..	...	..
Mns.	77·5	30·076	79·6	30·025	29·892	29·835	76·3	72·7	79·6	73·9	81·4	73·0	69·7	110·8	79·1	80·2	70·8	71·0	25·9	26·2	83·7	76·1	...	..	...	..

Temperature—
Daily Range: Mean Max.—Mean Min.—8·4°.
Greatest Range—16° on 3rd.
Least Range—3° on 14th.
Mid Temperature: ½ [Max. + Min.]—77·2°.
Highest Maximum—89° on 18th.
Lowest Minimum—68° on 27th.
Lowest Maximum—77° on 6th and 25th.
Highest Minimum—77° on 19th and 20th.
Lowest Grass Minimum—61° on 27th.

Humidity—
Greatest Humidity—99 per cent. on 7th at 8 a.m. and 2 p.m.
Least Humidity—47 per cent on 2nd at 2 p.m.

Air Pressure—
Highest Value at M.S.L.—30·004″ on 20th at 8a.m.
Lowest Value at M.S.L.—29·703″ on 11th and 13th at 2 p.m.

No. of Days of—
Rain—22.
Hail—0.
Thunderstorms—1.
Fog—0.
Gales (force 8 or more)—0.

Rainfall—
Total—14·98″ or 380·49 mm.
Average for 56 years—12·32″.
Difference from normal + 2·66″.
Greatest fall in 24 hours—3·13″ or 79·50 mm on 13th.
Total since 1st January—42·54″.

VISIBILITY SUMMARY—No. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8 a.m.	0	0	0	0	0	0	1	1	3	2	2	6	10	5
2 p.m.	0	0	0	0	0	0	1	1	1	6	1	5	10	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—4⅓ miles, J—6¼ miles, K—12½ miles, L—18⅔ miles, M—31 miles.

APRIL.

Wind. Miles run for previous 24 hours.	Wind. Mean velocity.	Weather for 24 hours ending midnight. (Beaufort Letters). Before Observation.	At time of Observation.	Between Observation hours.	At time of Observation.	After Observation.	Visibility.		Cloud. Amount (0–10).		Cloud. Form.		Cloud. Direction whence coming.		Amount of Rain. 6 hours during the day measured at 14h.	Amount of Rain. 18 hours measured next morning at 8h.	State of ground.		Sunshine (hours and tenths).	Day.
		I	I	I and II	II	II	I	II	I	II	I	II	I	II			I	II		
(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	44	45	(46)	
141·6	5·9	orRrd	od	oidr	ojp	or	K	I	10	9	As/Nb/St	Cb/St	?/E	E.S.E.	0·08	0·03	2	1	0·6	1
228·0	9·5	o,bc,b	bc	bc	bc	bc,b	M	M	4	4	Ci/Fc	Cu	?/E	E.S.E.	..	Trace	1	1	10·8	2
139·2	5·8	b,bc	c	bc,c,o	o	bc,c,op	M	L	8	9	Sc	Sc/Cu	N.E.	E.N.E.	..	0·48	1	0	5·4	3
122·4	5·1	oird	oid	oird	ojp	oid,bc	F	K	10	9	Nb/St	Cb/St	E.N.E.	E.	0·15	0·16	1	1	0·6	4
175·2	7·3	oid,d	oid	oidr	oiD	oiDr	H	I	10	10	Nb/St	Nb/St	E.S.E.	S.E.	0·18	0·45	1	2	0·0	5
163·2	6·8	oiDd	ojp	oidqDDrr	odd	oDDrrq	J	G	10	10	As/Nb/St	St	?/E	E.N.E.	0·43	2·01	2	2	0·0	6
199·2	8·3	oDDrrq	orr	orrRq,id	oid	oidr	G	L	10	10	St	St	....	....	1·26	0·25	2	2	0·0	7
136·8	5·7	o	ojp	oid	or	oird	K	F	9	10	As/Nb/St	Nb/St	?/E	E.	0·03	0·32	2	2	0·3	8
283·2	11·8	oirdq	oid	oidq	oid	oidq	I	J	9	10	Nb/St	Nb/St	E.N.E.	E.	0·01	0·04	2	1	0·0	9
165·6	6·9	opq	ojp	c,op	op	oR,c,oRp	K	I	9	9	Cb/St	Ac/Cb	E.N.E.	ENE/ENE	0·07	2·21	1	1	1·6	10
160·8	6·7	o,c	c	c,bc,p	cjp	ortlc,bc	K	I	7	7	Ac/Cb	Ac/Cb	W/NE	WNW/NE	Trace	0·45	2	2	1·9	11
79·2	3·3	c,orr	orr	o,c	od	o,r	K	I	9	10	As/St	Nb/St	?/NW	S.	Trace	1·57	2	1	0·6	12
72·0	3·0	oRr	ojp	o,c	ojp	oRRrd	I	I	10	10	St	St	N.E.	E.	..	3·13	2	1	1·7	13
232·8	9·7	odr	odd	odo	o	o	H	K	10	10	St	St/Cu	S.E.	....	0·23	Trace	2	2	0·0	14
168·0	7·0	o	ojp	ojp	ojp	oid	L	K	10	10	St	St	....	E.	..	0·37	1	1	0·0	15
110·4	4·6	oid	oid	oid	oid	oid	H	H	10	10	St	St	E.	E.	0·15	0·39	2	2	0·3	16
129·6	5·4	oid	ojp	oidr	ojp	oidr	J	K	10	10	St	St	N.E.	N.E.	0·09	0·12	2	2	0·2	17
168·0	7·0	o,c,bc	bc	bc	bc	bc,c,	L	L	4	4	St	Sc	N.N.E.	N.	..	0·03	2	1	7·8	18
122·4	5·1	op	o	ocbc	bc	bc,c,o	L	M	9	4	Sc	Cu	S.	S.E.	..	Trace	1	0	8·2	19
196·8	8·2	o	o	o	c	o	L	L	9	8	Sc	Sc	E.	E.S.E.	..	0·02	0	0	1·7	20
168·0	7·0	op	o	o	o	o	L	L	10	10	Sc	Sc	E.S.E.	S.E.	..	Trace	0	0	0·3	21
134·4	5·6	o,c,c	bc	bc,c,o	ojp	o	L	L	4	9	Cu	Cb	....	E.	..	0·05	0	0	4·0	22
165·6	6·9	or	ojp	or	ojp	or	L	L	9	10	Cs/Cb	St	—/E	E.	0·02	0·02	1	1	0·0	23
156·0	6·5	o	ojp	o	ojp	o	M	M	10	10	St/Nb	Sc	E.S.E.	....	..	0·17	1	0	0·0	24
156·0	6·5	or	o	o	o	o	M	M	10	10	Sc	Sc	W.	....	..	0·01	1	0	0·0	25
172·8	7·2	od	o	o	oy	o,c	M	L	10	10	Sc	Sc	....	S.E.	..	..	0	0	0·0	26
182·4	7·6	c,o	oy	o	o	o	L	L	10	10	Sc	Sc	E.	E.	..	..	0	0	0·0	27
132·0	5·5	o	o	o,c	cy	c,bc,b	L	L	10	7	Sc	Sc	N.E.	E.	..	..	0	0	3·1	28
112·8	4·7	c,o	o	oz	oz	oz	K	K	10	10	As/Cu	As/Cu	—/NE	?/—	..	Trace	0	0	0·1	29
96·0	4·0	o,c	c	c,o	o	c,bc,bw	L	M	7	9	Ac/Sc/Cu	Ac/Cb	NW/NE	?/ESE	..	..	0	0	4·2	30
4670·4	194·6	....	...	....	...	....	..	..	267	268	.....	.....	....	....	2·70	12·28	..	..	53·4	Totals
155·7	6·5	....	...	....	...	....	..	..	8·9	8·9	.....	.....	....	....	..	..	..	..	1·8	Means

CLOUD AMOUNT.

Number of cases of total cloud amount.

Hour.	0	1/3	4/6	7/9	10
8 a.m.	0	0	3	10	17
2 p.m.	0	0	3	9	18

WIND SUMMARY—No. OF OBSERVATIONS OF.

	Force 8 or more.	4/7.	1/3.	Calms.	N.N.W.	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.
8 a.m.	0	2	25	3	1	0	2	9	1	5	4	3	1	0	0	0	0	0	1	0
2 p.m.	0	7	23	0	0	0	1	2	1	11	6	6	0	3	0	0	0	0	0	0
Total	0	9	48	3	1	0	3	11	2	16	10	9	1	3	0	0	0	0	1	0

Prevailing Direction, E.; 8h., N.E.; 14h., E. Maximum wind velocity, 34 m.p.h. from E. at 1508. on 8th

WEATHER DIARY—APRIL, 1940.

Date.

1. Light to moderate E. to N.E. winds early. Overcast all day. Moderate to heavy rain to 0600; intermittent drizzle to 0900. Rain 1000 to 1030 and 1430 to 1450. Moderate E.S.E. to E. breeze 1000 with fresh gusts 1300 to 1800. Maximum wind velocity 26 m.p.h. from E.S.E. at 1354.
2. Fine and half cloudy to clear all day and night, low humidity, and gentle E.S.E. breeze with occasional moderate gusts, falling off after 1700, gradually backing N'ly.
3. N'ly airs to calm early, fine and half cloudy. Variable sky after 0700, becoming overcast 1330. Mainly overcast at night. Gentle E. breeze 0900, backing N.N.E. after 1600 gradually falling off.
4. Overcast and intermittent rain and drizzle 0320 to 1000 then light to moderate intermittent drizzle. Half cloudy 1830 to 1930. Light variable winds early. Gentle E'ly breeze 0600, becoming variable force 1/3 1500. Distant lightning about 2130.
5. Overcast all day and slight intermittent drizzle increasing to thick drizzle and rain 1040. Variable winds (N.N.E.) force 1/2 early, becoming gentle to fresh S. to S.E. 0305, falling off 1120 to 1158 and boxing compass, then light to moderate variable S.E. breeze gradually backing N.E.'ly
6. Overcast all day. Light to moderate E. to N.E. winds to 0335 then falling off. Intermittent drizzle and rain to 1212 then continuous drizzle and rain. Gentle to fresh squally E.N.E. to N.E. breeze 0845 to 1710, then gentle to light breeze.
7. Overcast all day, and gentle to fresh E.N.E. to N.N.E. breeze with some strong squalls, but mainly gentle to light after 1110. Continuous rain and drizzle, increasing to moderate to heavy rain 0745 to 1000; drizzle to 1500; thin intermittnet drizzle to about 2300. Reddish glow in Western sky after sunset. Maximum wind velocity 29 m.p.h. from N.N.E. at 1010.
8. Overcast all day. N.E'ly winds early force 1/2, veering E. 0820, increasing force 5/7, gusty, 1200 and thin intermittent drizzle and rain to 2030. Maximum wind velocity 34 m.p.h. from E. at 1508.
9. Overcast all day. Thin intermittent drizzle and rain 0000 to 0500 then very slight occasional drizzle to 0830 and between 1300 and 1400 and 1700 to 1716. Moderate to strong squally E.N.E. to E. winds falling off 1708. Maximum wind velocity 30 m.p.h. from E. by N. at 0404.
10. Overcast all day but with openings. Light passing showers 0215 to 1420 and 2255 to 2320. N.E. airs with occasional moderate squalls at first. Gentle to moderate E. to E.N.E. breeze 0815, backing N.N.E. 1505, veering E. 1600, backing N.E'ly 1900. Heavy rain 1515 to 1730 and 1955 to 2100.
11. Light to gentle N.E. winds at first falling off 0200. Calm 0400. Light N.E'ly breeze 0725 gradually veering E. force 3, falling off 1445 backing N'ly. Fine and cloudy with Ac predominating. Overcast with rain 1500 to 1900 then variable sky. Distant thunderstorm 1450 to 1620.
12. Overcast and N'ly airs to calm early. Light rain 0135 to 0730, then cloudy to overcast. Light variable N.W'ly breeze 0600 veering N.E., varying between S. and E. 1300 to 1735, then N.E. airs to calm. Heavy rain 1405 to 1600 then drizzle and rain.
13. Overcast and calm at first, with drizzle and rain to 0500, wind increasing force 3 from E. at noon. Sky clearing 0830, becoming overcast with heavy rain 1410 to 1610, then continuous drizzle and rain through the night. Wind veered S.E'ly 1300 force 4, falling off 1500, increasing force 3 1600.

Date.

14. Overcast all day with drizzle and rain to 1035, and gentle to moderate S.E. to S.S.E. winds.
15. Variable winds between S.E. and N.E. force 1/3 all day, but calm at times, and overcast. Intermittent drizzle 1535
16. Overcast early with intermittent drizzle, but clearing 0825, becoming overcast again 0915 and drizzle throughout the day and night. E'ly airs at first, increasing force 3, backing N'ly airs to calm 1925.
17. Calm and overcast early with continuous slight drizzle. Light to gentle N.E'ly winds all day. Intermittent drizzle during the day to 1750, then sky cleared.
18. Fine and cloudy during the day with bright intervals, becoming overcast at night. Winds, N.E'ly force 2/3, backing N. to N.W'ly airs to calm at night.
19. N'ly airs to calm early, fine and cloudy to overcast except for light showers 0715 to 0730 and at 1840. Slight S.S.W. breeze 1000 slowly backing S.E. to E.S.E. 1530.
20. Mainly overcast all day and fine. Light E.S.E. breeze at first backing N.E. 1020, veering S.E'ly 1040, backing again to N.E'ly force 2/3 1230, veering E.S.E. 1330.
21. Overcast with light showers early and light E.S.E. breeze to calm. Wind backed N.E. force 2 1545, veering E.S.E. 1610, later veering E. and gradually falling off. Variable airs 2200. Overcast all day.
22. Overcast early but clearing 0740, and light S.E'ly breeze. Fine and cloudy during the day with bright intervals. Variable E.S.E. to E.N.E. breeze force 2/3 to 1600 then East to N. force 1/2. Overcast night.
23. Overcast all day and night. Rain 0245 to 0350; drizzle at 0910, 1230 and 2030. Gentle to moderate E.S.E. breeze during the day, falling to force 2 1730, becoming variable 1950 force 0/2.
24. Calm at first and overcast all day. E.S.E. breeze force 1/2 0630. Rain 2230.
25. Overcast all day. Rain 0045 to 0250, then slight drizzle at 1830. Variable airs to calm at first, light to gentle S.E. breeze 0945.
26. Overcast all day, slight drizzle 0605. Light to moderate S.E. breeze during the day, falling off 2120 backing N'ly, veering E'ly 2325 force 1/3. Cloudy to overcast night.
27. Fine but overcast all day and night. E'ly wind at first, shifting to N.E. 1045, then variable N.E. to E. breeze force 1/2.
28. Mainly cloudy to overcast all day, but clear sky during the afternoon and night. N'ly airs to calm at first. Light to gentle E. breeze 1015, backing N.E. 1610 falling off.
29. N'ly airs to calm early. Overcast all day and hazy; Ac clouds predominating. Light to gentle E.N.E. to E.S.E. breeze 0955, falling to N'ly airs 1910.
30. Fine and cloudy early with Ac predominating, and N.E'ly airs to calm. Overcast during the day and excellent visibility, sky clearing 1510. Light to gentle E'ly breeze 0900, backing N.E'ly after 1600 falling off. Clear to cloudless sky at night and dew.

ADDITIONAL NOTES.

Fairly wet and cool. 13·91″ of rain fell in the first half of the month, the remainder mainly fine but continuing overcast and dull.

Rainfall exceeded the normal by 2·66″ and mean pressure at 8 a.m. by 0·006″. Mean temperature, 1·6° below normal.

G. B. NASMYTH,
Harbour Master.

Suva, 3rd May, 1940.

Meteorological Observations

TAKEN AT SUVA, FIJI,

DURING MAY, 1940.

Latitude, 18° 8′ South. Longitude, 178° 26′ East.

HOURS OF OBSERVATION.

(i) 8 a.m. or 2000 G.M.T. (ii) 2 p.m. or 0200 G.M.T.

Local Standard Time being 12 hours fast of Greenwich Mean Time.

Height of Cistern of Barometer above Mean Sea Level, 12 feet; Site of Rain gauge, 8 feet; Diameter of Rain-gauge, 8 inches. Height of other Instruments above ground:—Rim of Rain-gauge, 12 inches; Thermometers, 4 feet 6 inches; Sunshine Recorder, 3 feet 3 inches; Vane of Dine's Pressure Tube Anemometer, 48 feet 6 inches; Robinson Cup Anemometer (run of the wind pattern), 41 feet 6 inches

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Maximum Thermometer set at 8 h. Read at 8 h.

Minimum Thermometer set at 8 h. Read at 8 h.

Grass Min. Thermometer set at 16 h. Read at 8 h.

MAY.

Day.	Attached thermometer and barometer as read in inches. I		Attached thermometer and barometer as read in inches. II		Air Pressure at Mean Sea Level in the Units of Measurement. I		Air Pressure at Mean Sea Level in the Units of Measurement. II	
	(1)	(2)	(3)	(4)	(5)	(6)		
	°	″	°	″	″	″		
1	77	30·104	81	30·071	29·922	29·878		
2	79	30·130	83	30·096	29·942	29·897		
3	80	30·160	85	30·124	29·970	29·919		
4	81	30·132	84	30·064	29·939	29·862		
5	80	30·062	84	29·996	29·872	29·794		
6	81	30·029	82	29·981	29·836	29·784		
7	78	30·040	81	29·964	29·855	29·771		
8	78	30·020	79	29·966	29·835	29·778		
9	77	30·000	77	29·994	29·818	29·812		
10	76	30·070	80	30·046	29·891	29·856		
11	76	30·106	79	30·072	29·927	29·884		
12	77	30·120	80	30·090	29·938	29·900		
13	77	30·128	79	30·090	29·946	29·902		
14	76	30·152	77	30·116	29·973	29·934		
15	74	30·181	79	30·134	30·007	29·946		
16	75	30·160	80	30·028	29·983	29·838		
17	76	30·110	82	30·068	29·931	29·871		
18	77	30·152	82	30·088	29·970	29·891		
19	77	30·120	81	30·042	29·938	29·849		
20	77	30·062	80	30·006	29·880	29·816		
21	76	30·068	80	30·032	29·889	29·842		
22	75	30·060	81	30·032	29·883	29·839		
23	77	30·086	78	30·048	29·904	29·863		
24	75	30·138	75	30·102	29·961	29·925		
25	75	30·216	78	30·166	30·038	29·981		
26	75	30·168	78	30·118	29·991	29·933		
27	72	30·104	79	30·080	29·936	29·892		
28	75	30·148	78	30·104	29·971	29·919		
29	76	30·216	75	30·150	30·035	29·973		
30	72	30·238	72	30·188	30·069	30·020		
31	73	30·184	76	30·136	30·014	29·957		
Tls.	2370	933·664	2465	932·192	928·064	926·326		
Mns	76·5	30·118	79·5	30·071	29·938	29·881		

Day.	Temperature (degrees F.) In Screen. I Dry.	Wet.	II Dry.	Wet.	Maximum.	Minimum.	In Open. Grass Min. Eye to Morn.	Max. in Sun. Black Bulb in vacuo.	In Ground. I 1 foot.	4 feet.	Humidity. I Dew Point.	II	Vapour Pressure. I	II	Percentage. I	II	Wind Direction and Force (Beaufort Scale). I		II	
	Tenths.				Whole Degrees.				Tenths.											
	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17	(18)	(19)	(20)	(21)	(22)	(23)	24	(25)	26
	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.			Dir.	F	Dir.	F
1	78·2	72·0	80·8	74·0	83	69	62	127	77·7	79·1	69	71	24·1	25·6	73	71	N.N.E.	2	E.	3
2	78·0	75·0	83·2	76·0	86	73	68	141	78·1	79·0	74	73	28·3	27·5	86	71	N.E.	2	N.E.	4
3	77·8	74·0	86·2	77·0	87	74	69	142	78·8	79·1	72	73	26·9	27·7	83	65	N.E.	1	NEXE	4
4	80·0	75·8	83·8	77·4	87	73	67	140	79·0	79·2	74	75	28·9	29·3	82	74	N.E.	2	E.	4
5	77·0	75·4	84·2	77·4	87	75	72	143	79·4	79·3	75	74	29·5	28·6	93	73	NXE	1	S.S.E.	1
6	79·6	75·2	78·4	76·4	83	74	69	127	80·2	79·4	74	75	28·2	29·8	81	91	NWXW	1	S.S.W.	2
7	75·4	74·2	82·0	76·2	83	73	72	134	80·2	79·8	74	73	28·2	28·0	94	76	S.W.	1	E.S.E.	3
8	74·8	73·2	78·8	73·8	80	72	71	121	80·2	79·9	73	72	27·5	26·5	92	78	S.S.W.	3	S.S.W.	3
9	73·1	71·9	73·8	71·4	77	70	69	103	80·0	80·0	71	70	26·4	25·2	94	88	N.E.	1	S.S.W.	2
10	74·2	71·0	80·0	73·0	81	71	70	120	80·0	79·8	69	69	24·6	24·6	85	70	Calm	0	S.	2
11	75·0	72·0	79·2	71·0	80	71	69	124	80·0	80·0	71	67	25·5	22·4	86	66	N.	1	SXE	2
12	76·0	69·0	78·6	70·4	80	70	65	141	79·4	79·8	65	67	21·1	22·4	69	65	S.	2	SXE	4
13	74·4	67·0	77·8	66·2	79	71	62	122	79·0	79·7	62	59	18·9	17·1	66	52	S.S.E.	2	S.	3
14	75·6	65·6	75·4	68·4	80	71	63	117	78·4	79·7	60	64	17·4	20·3	57	69	SEXS	3	E.S.E.	1
15	72·0	68·6	80·4	69·4	82	68	62	127	78·0	79·7	66	62	22·2	19·3	83	55	N.	1	E.S.E.	3
16	72·9	69·7	81·2	71·8	82	68	64	144	78·0	79·5	68	66	23·7	22·1	84	62	N.E.	1	NEXN	5
17	75·0	72·0	82·4	75·0	85	71	68	137	78·0	79·2	71	71	25·5	25·8	86	70	N.N.E.	1	N.E.	3
18	75·0	72·2	84·8	76·4	85	70	66	142	78·8	79·2	71	73	25·5	27·4	87	67	N.N.E.	1	S.E.	2
19	75·4	72·0	82·6	74·0	83	68	67	140	79·0	79·7	70	70	25·4	24·8	84	65	N.N.E.	1	SEXS	2
20	74·2	70·8	79·4	72·4	80	68	63	135	79·0	79·8	69	68	23·9	23·7	84	70	Calm	0	S.S.W.	3
21	73·0	70·2	80·0	72·2	81	69	64	127	79·0	80·0	68	68	23·7	23·3	86	67	NXE	1	S.S.E.	2
22	73·4	69·6	81·2	73·0	83	68	63	130	78·4	79·3	67	69	22·4	24·2	82	67	N.	1	E.	4
23	73·2	71·4	76·0	74·0	78	71	68	99	78·4	79·4	70	73	25·0	27·8	91	91	E.	3	NEXN	3
24	73·0	72·2	72·5	71·7	76	70	70	88	78·0	79·4	71	71	26·4	26·4	96	96	N.N.E.	2	S.S.E.	4
25	73·8	67·4	79·0	70·8	79	70	69	131	77·7	79·4	64	67	20·1	22·4	71	65	SEXS	3	S.E.	3
26	73·0	64·2	79·4	67·0	80	67	61	134	77·2	79·2	58	58	16·4	16·7	59	50	E.S.E.	3	EXS	3
27	70·4	65·0	81·0	69·4	82	63	59	124	76·3	79·1	61	63	18·3	19·5	73	53	N.	1	N.E.	2
28	73·2	70·4	78·6	72·0	80	68	66	116	76·5	78·8	68	69	23·7	24·4	87	71	Calm	0	S.S.W.	3
29	72·4	71·4	72·9	72·1	73	70	69	82	77·0	78·6	71	71	25·5	26·4	95	96	S.E.	3	SEXS	3
30	69·2	67·2	69·6	68·2	72	68	67	79	76·0	78·4	66	68	21·7	23·1	90	93	SEXS	4	SEXS	3
31	72·0	70·2	77·2	72·6	79	68	67	116	75·2	78·2	69	70	24·2	25·3	91	80	S.S.E.	3	E.SE.	4
Tls.	2310·2	2195·8	2460·4	2250·6	2513	2172	2061	3853	2430·9	2460·7	2131	2139	749·1	757·6	2570	2227	...	..	...	..
Mns	74·5	70·8	79·4	72·6	81·1	70·1	66·5	124·3	78·4	79·4	68·7	69·0	24·2	24·4	82·9	71·8	...	..	...	..

Temperature—
Daily Range: Mean Max.—Mean Min. —11·0°.
Greatest Range—19° on 27th.
Least Range—3° on 29th.
Mid Temperature: ½ [Max. + Min.]—75·6°.
Highest Maximum—87° on 3rd, 4th and 5th.
Lowest Minimum—63° on 27th.
Lowest Maximum—72° on 30th.
Highest Minimum—75° on 5th.
Lowest Grass Minimum—59° on 27th.

Humidity—
Greatest Humidity—96 per cent. on 24th at 8 a.m. and 2 p.m. and 29th at 2 p.m.
Least Humidity—50 per cent. on 26th at 2 p.m.

Air Pressure—
Highest Value at M.S.L.—30·069″ on 30th at 8 a.m.
Lowest Value at M.S.L.—29·771″ on 7th at 2 p.m.

No. of Days of—
Rain—15.
Hail—0.
Thunderstorms—0.
Fog—0.
Gales (force 8 or more)—0.

Rainfall—
Total—5·69″ or 144·53 mm.
Average for 56 years—10·73″.

Difference from normal— —5·04″.
Greatest fall in 24 hours—1·61″ or 40·89 mm. on 29th.
Total since 1st January—48·23″.

VISIBILITY SUMMARY—No. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8 a.m.	0	0	0	0	0	0	1	1	3	1	2	4	8	11
2 p.m.	0	0	0	0	0	0	1	1	1	2	0	7	6	13

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.

MAY.

Wind. Miles run for previous 24 hours.	Wind. Mean velocity	Weather for 24 hours ending midnight. (Beaufort Letters). Before Obser'tion.	At time of Obser'tion.	Between Obser'tion hours.	At time of Obser'tion.	After Obser'tion.	Visibility.		Cloud. Amount (0–10).		Form.		Direction whence coming.		Amount of Rain. 6 hours during the day measured at 14h.	Amount of Rain. 18 hours measured next morning at 8h.	State of ground.		Sunshine (hours and tenths).	Day.
		I	I	I and II	II	II	I	II	I	II	I	II	I	II			I	II		
(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	44	45	(46)	
															"	"				
129·6	5·4	b	bc	bc,c	c	oz,b,c	L	K	5	7	Ac/Cu	Ac/Cb	NW/NE	?/E	..	..	0	0	7·4	1
98·4	4·1	o,c	cz	cz,bc	oz	oz,bc,b	J	K	8	9	Ac/Cu	Ac/Cu	W/NE	W/NE	..	..	0	0	4·1	2
180·0	7·5	c,bc	bc	bc,b	b	b,bcw	K	K	4	3	Ac/Cu	Cu	W/NE	N.E.	..	..	0	0	9·5	3
124·8	5·2	bc,b	b	b,bcz	bcz	bcz,c	K	K	3	4	Cu	Cu	N.E.	E.N.E.	..	0·04	0	0	9·8	4
124·8	5·2	bc,c,oid	oid	c,bc,b	b	c,bc,bw	K	K	9	4	Sc/St	Cs/Cb	N.	—/N	..	..	0	0	8·6	5
93·6	3·9	b	b	b,bc,oid	ojp	oid	K	K	2	9	Cu	Cb/Nb	....	S.	0·04	0·18	0	0	4·2	6
144·0	6·0	oid	ojp	c,bc	c	oR,ird	H	K	9	7	Nb/St	Cu/Cb	S.E.	E.	Trace	0·98	1	0	3·6	7
156·0	6·5	oirdq	o	c,bc,ov	ov	ov,p	L	M	9	9	Nb/St	Sc/Nb	S.	S.	..	0·17	1	1	2·8	8
141·6	5·9	oid	oid	oid	ojp	o,b,c,o	J	M	10	10	As/St	As/St	—/NE	?/S	0·06	Trace	1	1	0·2	9
122·4	5·1	ov	ov	cv,o	ov	ov,id	M	M	9	9	As/Cu	Sc/Cu	?/SE	E.	..	0·01	1	0	1·8	10
86·4	3·6	od,bcv	bcv	bcv,c,o	cv	c,bc,b	M	M	5	8	Sc/Cu	Sc/Cu	S.S.E.	S.	..	..	0	0	3·6	11
153·6	6·4	b,bc	bc	bc	bc	bc,b	M	M	4	5	Cu	Cu	S.S.E.	S.S.E.	..	..	0	0	9·7	12
259·2	10·8	b,bc,c	c	c,bc	bc	bc,b,c	M	M	7	5	Sc	Cu	S.S.E.	S.	..	..	0	0	9·3	13
201·6	8·4	b,c,o	bcv	bcv,c,oq	ojb	O,c,bc,c	M	L	5	9	Sc	Sc/Cb	E.S.E.	....	Trace	..	0	0	2·7	14
96·0	4·0	c,ov	ov	ov,bc,c	cv	bc,c,op	M	M	9	7	Sc	Ci/Cu	E.	W/E	..	0·01	0	0	6·5	15
127·2	5·3	c,o	o	o,bc,c	c	c,o,bc	L	L	9	7	Ac/Cb	Ac/Cu	W/NE	W/NNE	..	0·01	0	0	3·0	16
136·8	5·7	cp,bc	c	c,bc,o	c	bcw	L	L	8	7	Ac/Sc	Ac/Cu	W/—	?/NW	..	..	0	0	7·2	17
100·8	4·2	bc	b	b	b	bw	L	L	0	1	.....	Cu	....	....	..	..	0	0	10·6	18
110·4	4·6	b	b	b	b	bc,c,bw	M	M	3	2	Cu	Cu	S.E.	S.E.	..	..	0	0	8·5	19
100·8	4·2	b	b	b	bv	bv,c	M	M	2	3	Cs/Cu	Cu	?/—	S.	..	..	0	0	9·5	20
148·8	6·2	bc,cvw	cv	cv,bc	bc	bc,c	M	M	7	6	Ci/Cu	Ci/Cu	?/ESE	?/SE	Trace	..	0	0	6·2	21
122·4	5·1	c,bc	bc	c,bc	bc	bc,c	L	M	6	4	Ac/Cu	Cu	W/E	N.E.	..	0·20	0	0	7·3	22
141·6	5·9	c,oid	oid	oid	oid	oid	H	I	10	10	Nb/St	Nb/St	E.N.E.	N.E.	0·03	1·07	1	1	0·0	23
112·8	4·7	oidrqo,rr	orr	oidrD	oiDq	oidrq	H	H	10	10	Nb/St	St	N.E.	S.S.E.	0·15	0·17	1	1	0·1	24
194·4	8·1	oidr	ov	o,c,bc	bc	bc,b,c	M	L	9	5	Sc	Cu	S.S.E.	S.E.	Trace	Trace	1	1	4·7	25
204·8	8·5	C,o	oy	o,c,bc	cy	c,bc,bw	L	M	9	8	Sc	Ac/Sc	E.	NE/?	..	..	0	0	2·1	26
144·0	6·0	b,bc,c	c	bc,b,c	cy	bc,b,c,o	L	M	7	7	Sc	Sc/Cu	....	E.	..	..	0	0	8·3	27
100·8	4·2	bc,c,o	o	o,c,bc	c	c,o	M	L	9	7	As	Ac/Sc/Cu	?	WNW/SSW	..	0·16	0	0	2·7	28
184·8	7·7	oirD	oiD	oiDr	oiD	oiDrr	I	F	10	10	Nb/St	St	S.E.	S.E.	0·27	1·34	1	1	0·0	29
232·8	9·7	orr,r	orr	orrdd	odd	odd,id	F	G	10	10	Nb/St	Nb/St	S.E.	S.E.	0·26	0·24	2	2	0·0	30
184·8	7·7	oir	oir	o,c,bc	op	oir,p	G	I	10	9	Nb/St	Cb/St	S.E.	E.S.E.	Trace	0·30	2	1	2·9	31
4460·0	185·8	....	...	....	...	....	..	..	217	211	.....	.....	....	....	0·81	4·88	..	..	156·9	Totals
143·9	6·0	....	...	....	...	....	..	..	7·0	6·8	.....	.....	....	....	..	..	..	..	5·1	Means

CLOUD AMOUNT.

Number of cases of total cloud amount.

Hour.	0	1/3	4/6	7/9	10
8 a.m.	1	4	6	14	6
2 p.m.	0	4	7	15	5

WIND SUMMARY—No. OF OBSERVATIONS OF.

	Force 8 or more.	4/7.	1/3.	Calms.	N.N.W.	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.
8 a.m.	0	1	27	3	0	6	5	5	0	1	1	4	2	1	1	1	0	0	0	1
2 p.m.	0	8	23	0	0	0	0	6	0	4	4	5	3	4	5	0	0	0	0	0
Total	0	9	50	3	0	6	5	11	0	5	5	9	5	5	6	1	0	0	0	1

Prevailing Direction, N.E.; 8h., N.; 14h., N.E.; maximum wind velocity, 31 m.p.h. from E.S.E. at 1942 on 31st.

Meteorological Observations

TAKEN AT SUVA, FIJI,

DURING MAY, 1940.

Latitude, 18° 8′ South. Longitude, 178° 26′ East.

HOURS OF OBSERVATION.

(i) 8 a.m. or 2000 G.M.T. (ii) 2 p.m. or 0200 G.M.T.

Local Standard Time being 12 hours fast of Greenwich Mean Time.

Height of Cistern of Barometer above Mean Sea Level, 12 feet; Site of Rain gauge, 8 feet; Diameter of Rain-gauge, 8 inches. Height of other Instruments above ground:—Rim of Rain-gauge, 12 inches; Thermometers, 4 feet 6 inches; Sunshine Recorder, 3 feet 3 inches; Vane of Dine's Pressure Tube Anemometer, 48 feet 6 inches; Robinson Cup Anemometer (run of the wind pattern), 41 feet 6 inches

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Maximum Thermometer set at 8 h. Read at 8 h.

Minimum Thermometer set at 8 h. Read at 8 h.

Grass Min. Thermometer set at 16 h. Read at 8 h.

MAY.

Day.	Attached thermometer and barometer as read in inches. I		II		Air Pressure at Mean Sea Level in the Units of Measurement. I	II	Temperature (degrees F.) In Screen. I Dry.	Wet.	II Dry.	Wet.	Maximum.	Minimum.	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	Per-centage. I	II	Wind Direction and Force (Beaufort Scale). I		II	
							Tenths.				Whole Degrees.				Tenths.											
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	24	(25)	26
	°	"	°	"	"	"	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.			Dir.	F	Dir.	F
1	77	30·104	81	30·071	29·922	29·878	78·2	72·0	80·8	74·0	83	69	62	127	77·7	79·1	69	71	24·1	25·6	73	71	N.N.E.	2	E.	3
2	79	30·130	83	30·096	29·942	29·897	78·0	75·0	83·2	76·0	86	73	68	141	78·1	79·0	74	73	28·3	27·5	86	71	N.E.	2	N.E.	4
3	80	30·160	85	30·124	29·970	29·919	77·8	74·0	86·2	77·0	87	74	69	142	78·8	79·1	72	73	26·9	27·7	83	65	N.E.	1	NEXE	4
4	81	30·132	84	30·064	29·939	29·862	80·0	75·8	83·8	77·4	87	73	67	140	79·0	79·2	74	75	28·9	29·3	82	74	N.E.	2	E.	4
5	80	30·062	84	29·996	29·872	29·794	77·0	75·4	84·2	77·4	87	75	72	143	79·4	79·3	75	74	29·5	28·6	93	73	NXE	1	S.S.E.	1
6	81	30·029	82	29·981	29·836	29·784	79·6	75·2	78·4	76·4	83	74	69	127	80·2	79·4	74	75	28·2	29·8	81	91	NWXW	1	S.S.W.	2
7	78	30·040	81	29·964	29·855	29·771	75·4	74·2	82·0	76·2	83	73	72	134	80·2	79·8	74	73	28·2	28·0	94	76	S.W.	1	E.S.E.	3
8	78	30·020	79	29·966	29·835	29·778	74·8	73·2	78·8	73·8	80	72	71	121	80·2	79·9	73	72	27·5	26·5	92	78	S.S.W.	3	S.S.W.	3
9	77	30·000	77	29·994	29·818	29·812	73·1	71·9	73·8	71·4	77	70	69	103	80·0	80·0	71	70	26·4	25·2	94	88	N.E.	1	S.S.W.	2
10	76	30·070	80	30·046	29·891	29·856	74·2	71·0	80·0	73·0	81	71	70	120	80·0	79·8	69	69	24·6	24·6	85	70	Calm	0	S.	2
11	76	30·106	79	30·072	29·927	29·884	75·0	72·0	79·2	71·0	80	71	69	124	80·0	80·0	71	67	25·5	22·4	86	66	N.	1	SXE	2
12	77	30·120	80	30·090	29·938	29·900	76·0	69·0	78·6	70·4	80	70	65	141	79·4	79·8	65	67	21·1	22·4	69	65	S.	2	SXE	4
13	77	30·128	79	30·090	29·946	29·902	74·4	67·0	77·8	66·2	79	71	62	122	79·0	79·7	62	59	18·9	17·1	66	52	S.S.E.	2	S.	3
14	76	30·152	77	30·116	29·973	29·934	75·6	65·6	75·4	68·4	80	71	63	117	78·4	79·7	60	64	17·4	20·3	57	69	SEXS	3	E.S.E.	1
15	74	30·181	79	30·134	30·007	29·946	72·0	68·6	80·4	69·4	82	68	62	127	78·0	79·7	66	62	22·2	19·3	83	55	N.	1	E.S.E.	3
16	75	30·160	80	30·028	29·983	29·838	72·9	69·7	81·2	71·8	82	68	64	144	78·0	79·5	68	66	23·7	22·1	84	62	N.E.	1	NEXN	5
17	76	30·110	82	30·068	29·931	29·871	75·0	72·0	82·4	75·0	85	71	68	137	78·0	79·2	71	71	25·5	25·8	86	70	N.N.E.	1	N.E.	3
18	77	30·152	82	30·088	29·970	29·891	75·0	72·2	84·8	76·4	85	70	66	142	78·8	79·2	71	73	25·5	27·4	87	67	N.N.E.	1	S.E.	2
19	77	30·120	81	30·042	29·938	29·849	75·4	72·0	82·6	74·0	83	68	67	140	79·0	79·7	70	70	25·4	24·8	84	65	N.N.E.	1	SEXS	2
20	77	30·062	80	30·006	29·880	29·816	74·2	70·8	79·4	72·4	80	68	63	135	79·0	79·8	69	68	23·9	23·7	84	70	Calm	0	S.S.W.	3
21	76	30·068	80	30·032	29·889	29·842	73·0	70·2	80·0	72·2	81	69	64	127	79·0	80·0	68	68	23·7	23·3	86	67	NXE	1	S.S.E.	2
22	75	30·060	81	30·032	29·883	29·839	73·4	69·6	81·2	73·0	83	68	63	130	78·4	79·3	67	69	22·4	24·2	82	67	N.	1	E.	4
23	77	30·086	78	30·048	29·904	29·863	73·2	71·4	76·0	74·0	78	71	68	99	78·4	79·4	70	73	25·0	27·8	91	91	E.	3	NEXN	3
24	75	30·138	75	30·102	29·961	29·925	73·0	72·2	72·5	71·7	76	70	70	88	78·0	79·4	71	71	26·4	26·4	96	96	N.N.E.	2	S.S.E.	4
25	75	30·216	78	30·166	30·038	29·981	73·8	67·4	79·0	70·8	79	70	69	131	77·7	79·4	64	67	20·1	22·4	71	65	SEXS	3	S.E.	3
26	75	30·168	78	30·118	29·991	29·933	73·0	64·2	79·4	67·0	80	67	61	134	77·2	79·2	58	58	16·4	16·7	59	50	E.S.E.	3	EXS	3
27	72	30·104	79	30·080	29·936	29·892	70·4	65·0	81·0	69·4	82	63	59	124	76·3	79·1	61	63	18·3	19·5	73	53	N.	1	N.E.	2
28	75	30·148	78	30·104	29·971	29·919	73·2	70·4	78·6	72·0	80	68	66	116	76·5	78·8	68	69	23·7	24·4	87	71	Calm	0	S.S.W.	3
29	76	30·216	75	30·150	30·035	29·973	72·4	71·4	72·9	72·1	73	70	69	82	77·0	78·6	71	71	25·5	26·4	95	96	S.E.	3	SEXS	3
30	72	30·238	72	30·188	30·089	30·020	69·2	67·2	69·6	68·2	72	68	67	79	76·0	78·4	66	68	21·7	23·1	90	93	SEXS	4	SEXS	3
31	73	30·184	76	30·136	30·014	29·957	72·0	70·2	77·2	72·6	79	68	67	116	75·2	78·2	69	70	24·2	25·3	91	80	S.S.E.	3	E.SE.	4
Tls.	2370	933·664	2465	932·192	928·064	926·326	2310·2	2195·8	2460·4	2250·6	2513	2172	2061	3853	2430·9	2460·7	2131	2139	749·1	757·6	2570	2227	...	..	...	..
Mns	76·5	30·118	79·5	30·071	29·938	29·881	74·5	70·8	79·4	72·6	81·1	70·1	66·5	124·3	78·4	79·4	68·7	69·0	24·2	24·4	82·9	71·8	...	..	...	..

Temperature—
Daily Range: Mean Max.—Mean Min. —11·0°.
Greatest Range—19° on 27th.
Least Range—3° on 29th.
Mid Temperature: ½ [Max. + Min.]—75·6°.
Highest Maximum—87° on 3rd, 4th and 5th.
Lowest Minimum—63° on 27th.
Lowest Maximum—72° on 30th.
Highest Minimum—75° on 5th.
Lowest Grass Minimum—59° on 27th.

Humidity—
Greatest Humidity—96 per cent. on 24th at 8 a.m. and 2 p.m. and 29th at 2 p.m.
Least Humidity—50 per cent. on 26th at 2 p.m.

Air Pressure—
Highest Value at M.S.L.—30·069″ on 30th at 8 a.m.
Lowest Value at M.S.L.—29·771″ on 7th at 2 p.m.

No. of Days of—
Rain—15.
Hail—0.
Thunderstorms—0.
Fog—0.
Gales (force 8 or more)—0.

Rainfall—
Total—5·69″ or 144·53 mm.
Average for 56 years—10·73″.
Difference from normal— −5·04″.
Greatest fall in 24 hours—1·61″ or 40·89 mm. on 29th.
Total since 1st January—48·23″.

VISIBILITY SUMMARY—No. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8 a.m.	0	0	0	0	0	0	1	1	3	1	2	4	8	11
2 p.m.	0	0	0	0	0	0	1	1	1	2	0	7	6	13

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.

MAY.

Wind. Miles run for previous 24 hours.	Wind. Mean velocity	Weather for 24 hours ending midnight. (Beaufort Letters). Before Observation.	At time of Observation.	Between Observation hours.	At time of Observation.	After Observation.	Visibility.		Cloud. Amount (0–10).		Cloud. Form.		Cloud. Direction whence coming.		Amount of Rain. 6 hours during the day measured at 14h.	Amount of Rain. 18 hours measured next morning at 8h.	State of ground.		Sunshine (hours and tenths).	Day.
		I	I	I and II	II	II	I	II	I	II	I	II	I	II			I	II		
(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	44	45	(46)	
															"	"				
129·6	5·4	b	bc	bc,c	c	oz,b,c	L	K	5	7	Ac/Cu	Ac/Cb	NW/NE	?/E	..	..	0	0	7·4	1
98·4	4·1	o,c	cz	cz,bc	oz	oz,bc,b	J	K	8	9	Ac/Cu	Ac/Cu	W/NE	W/NE	..	..	0	0	4·1	2
180·0	7·5	c,bc	bc	bc,b	b	b,bcw	K	K	4	3	Ac/Cu	Cu	W/NE	N.E.	..	..	0	0	9·5	3
124·8	5·2	bc,b	b	b,bcz	bcz	bcz,c	K	K	3	4	Cu	Cu	N.E.	E.N.E.	..	0·04	0	0	9·8	4
124·8	5·2	bc,c,oid	oid	c,bc,b	b	c,bc,bw	K	K	9	4	Sc/St	Cs/Cb	N.	—/N	..	..	0	0	8·6	5
93·6	3·9	b	b	b,bc,oid	ojp	oid	K	K	2	9	Cu	Cb/Nb	....	S.	0·04	0·18	0	0	4·2	6
144·0	6·0	oid	ojp	c,bc	c	oR,ird	H	K	9	7	Nb/St	Cu/Cb	S.E.	E.	Trace	0·98	1	0	3·6	7
156·0	6·5	oirdq	o	c,bc,ov	ov	ov,p	L	M	9	9	Nb/St	Sc/Nb	S.	S.	..	0·17	1	1	2·8	8
141·6	5·9	oid	oid	oid	ojp	o,b,c,o	J	M	10	10	As/St	As/St	—/NE	?/S	0·06	Trace	1	1	0·2	9
122·4	5·1	ov	ov	cv,o	ov	ov,id	M	M	9	9	As/Cu	Sc/Cu	?/SE	E.	..	0·01	1	0	1·8	10
86·4	3·6	od,bcv	bcv	bcv,c,o	cv	c,bc,b	M	M	5	8	Sc/Cu	Sc/Cu	S.S.E.	S.	..	..	0	0	3·6	11
153·6	6·4	b,bc	bc	bc	bc	bc,b	M	M	4	5	Cu	Cu	S.S.E.	S.S.E.	..	..	0	0	9·7	12
259·2	10·8	b,bc,c	c	c,bc	bc	bc,b,c	M	M	7	5	Sc	Cu	S.S.E.	S.	..	..	0	0	9·3	13
201·6	8·4	b,c,o	bcv	bcv,c,oq	ojb	O,c,bc,c	M	L	5	9	Sc	Sc/Cb	E.S.E.	....	Trace	..	0	0	2·7	14
96·0	4·0	c,ov	ov	ov,bc,c	cv	bc,c,op	M	M	9	7	Sc	Ci/Cu	E.	W/E	..	0·01	0	0	6·5	15
127·2	5·3	c,o	o	o,bc,c	c	c,o,bc	L	L	9	7	Ac/Cb	Ac/Cu	W/NE	W/NNE	..	0·01	0	0	3·0	16
136·8	5·7	cp,bc	c	c,bc,o	c	bcw	L	L	8	7	Ac/Sc	Ac/Cu	W/—	?/NW	..	..	0	0	7·2	17
100·8	4·2	bc	b	b	b	bw	L	L	0	1	.....	Cu	....	....	..	..	0	0	10·6	18
110·4	4·6	b	b	b	b	bc,c,bw	M	M	3	2	Cu	Cu	S.E.	S.E.	..	..	0	0	8·5	19
100·8	4·2	b	b	b	bv	bv,c	M	M	2	3	Cs/Cu	Cu	?/—	S.	..	..	0	0	9·5	20
148·8	6·2	bc,cvw	cv	cv,bc	bc	bc,c	M	M	7	6	Ci/Cu	Ci/Cu	?/ESE	?/SE	Trace	..	0	0	6·2	21
122·4	5·1	c,bc	bc	c,bc	bc	bc,c	L	M	6	4	Ac/Cu	Cu	W/E	N.E.	..	0·20	0	0	7·3	22
141·6	5·9	c,oid	oid	oid	oid	oid	H	I	10	10	Nb/St	Nb/St	E.N.E.	N.E.	0·03	1·07	1	1	0·0	23
112·8	4·7	oidrqo,rr	orr	oidrD	oiDq	oidrq	H	H	10	10	Nb/St	St	N.E.	S.S.E.	0·15	0·17	1	1	0·1	24
194·4	8·1	oidr	ov	o,c,bc	bc	bc,b,c	M	L	9	5	Sc	Cu	S.S.E.	S.E.	Trace	Trace	1	1	4·7	25
204·8	8·5	C,o	oy	o,c,bc	cy	c,bc,bw	L	M	9	8	Sc	Ac/Sc	E.	NE/?	..	..	0	0	2·1	26
144·0	6·0	b,bc,c	c	bc,b,c	cy	bc,b,c,o	L	M	7	7	Sc	Sc/Cu	....	E.	..	..	0	0	8·3	27
100·8	4·2	bc,c,o	o	o,c,bc	c	c,o	M	L	9	7	As	Ac/Sc/Cu	?	WNW/SSW	..	0·16	0	0	2·7	28
184·8	7·7	oirD	oiD	oiDr	oiD	oiDrr	I	F	10	10	Nb/St	St	S.E.	S.E.	0·27	1·34	1	1	0·0	29
232·8	9·7	orr,r	orr	orrdd	odd	odd,id	F	G	10	10	Nb/St	Nb/St	S.E.	S.E.	0·26	0·24	2	2	0·0	30
184·8	7·7	oir	oir	o,c,bc	op	oir,p	G	I	10	9	Nb/St	Cb/St	S.E.	E.S.E.	Trace	0·30	2	1	2·9	31
4460·0	185·8	....	...	....	...	....	..	..	217	211	.....	.....	....	....	0·81	4·88	..	..	156·9	Totals
143·9	6·0	....	...	....	...	....	..	..	7·0	6·8	.....	.....	....	....	..	..	..	..	5·1	Means

CLOUD AMOUNT.

Number of cases of total cloud amount.

Hour.	0	1/3	4/6	7/9	10
8 a.m.	1	4	6	14	6
2 p.m.	0	4	7	15	5

WIND SUMMARY—No. OF OBSERVATIONS OF.

	Force 8 or more.	4/7.	1/3.	Calms.	N.N.W.	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.
8 a.m.	0	1	27	3	0	6	5	5	0	1	1	4	2	1	1	1	0	0	0	1
2 p.m.	0	8	23	0	0	0	0	6	0	4	4	5	3	4	5	0	0	0	0	0
Total	0	9	50	3	0	6	5	11	0	5	5	9	5	5	6	1	0	0	0	1

Prevailing Direction, N.E.; 8h., N.; 14h., N.E.; maximum wind velocity, 31 m.p.h. from E.S.E. at 1942 on 31st.

WEATHER DIARY, MAY, 1940.

Date.

1. Fine and clear to cloudless early and N.N.E. airs to calm increasing force 2/3 0755, then half cloudy with Ac predominating, later becoming cloudy to overcast and hazy but clearing 1930. Gentle to moderate E.N.E. to E. breeze 0900 backing N.E. 1735 falling off.
2. N.E. airs to calm early increasing force 2 0630 and to force 4 0940, falling off 1600. Fine all day but mainly cloudy to overcast, Ac predominating and slight haze, sky clearing about 1730.
3. Fine all day. N.E. airs to calm at first. Light to gentle N.E. to E. breeze 0830, increasing force 3/4 1300, falling off 1600. Cloudy early but half cloudy to clear sky during the day and night. Dew at night.
4. Fine, clear sky early and N'ly airs to calm, gradually increasing force 2/3 0750, and to force 4 1200 veering E., falling off 1700 backing N.E. Half-cloudy during the day and slight haze, variable sky at night.
5. N'ly airs to calm early and overcast. Thin intermittent drizzle 0030 to 0100, 0230 to 0330 and 0745 to 0810, then sky cleared. Cloudless at times at night and heavy dew. Light variable S. to E.S.E. breeze 1112, calm 1530. N'ly winds force 0/2 1825.
6. Fine and clear sky early. Light W'ly breeze 0100 veering W.N.W. force 1. Sky gradually covered after 1000 and wind backed S.S.W. force 2/4, backing S.S.E. 1445, becoming variable 2120. Intermittent drizzle 1255. Cloud base down to 600 feet.
7. Overcast and intermittent drizzle to 0730 and variable winds force 0/2. Cloud base down to 300 feet. Variable sky after 1000, becoming overcast again with low clouds 1450. Light to moderate E.S.E. breeze 1140, veering S.S.E. 1700 falling off 2040. Heavy rain 1640 to 1740 then light intermittent rain and drizzle.
8. Variable airs to calm early and intermittent rain and drizzle to 0530. Moderate to fresh S.W. to S.S.W. squalls 0513, falling off 0640. Cloud base down to 300 feet. Half cloudy 0830, becoming overcast 1200 and wind increased force 3 from S.S.W., becoming variable S.S.W. to W.S.W. 1920, falling off 2100. Unusual visibility during the day. Showers 1925 to 2115.
9. Overcast all day. Variable airs to calm early with gentle squalls at 0225 and 0612. Thin intermittent drizzle 0600 to 1350. S.W. to S.S.W. winds force 1/3 0900, increasing force 4, 1722, falling off 1840 veering N.W. Sky cleared 1940, covering again 2045.
10. Cloudy to overcast all day and unusual visbility. Light S. to S.S.E. breeze 1040 becoming variable 1920. Very thin occasional drizzle at night.
11. N'ly airs to calm early and overcast. Thin drizzle 0530 to 0610, then variable sky and unusual visibility, becoming clear after sunset. Light to gentle S.E'ly breeze 0925, gradually falling off after 1600 backing N'ly 1948. Light S.S.E. breeze 2305.
12. Fine and half cloudy to clear sky all day and night. Light to gentle S. to S.S.E. breeze at first, increasing force 3/4 0830.
13. Fine all day, mainly half cloudy and light to gentle S. to S.S.E. breeze, becoming clear to cloudless at night, but variable sky after 2130.
14. Variable sky early, fine and unusual visibility, becoming overcast about 1130 and showers in sight to W.S.W., clearing 1530, covering again about 2330. Trace rain 1345. Light S.S.E. to E.S.E. breeze at first,-becoming squally and variable force 2/4 1210, falling off 1450, backing N'ly 1615.
15. N'ly airs early, fine but overcast an unusual visibility, becoming cloudy to half cloudy 0945. Variable sky at night. Light to gentle E.S.E. breeze 0920, gradually falling off after 1520, backing E. 1625 and to N.E. and N'ly 1820. Light shower 2235.
16. Cloudy to overcast early with Ac predominating, fine and calm to light N.E'ly. Wind gradually increased becoming moderate to strong 1300, falling off 1440. Variable sky after 0940. Maximum wind velocity 28 m.p.h. from N.E. xN. at 1327.

Suva, 3rd June, 1940.

Date.

17. Cloudy early and variable N.E. winds force 0/3. Light shower at 0330. Variable sky during the day but mainly cloudy, clearing at night. Dew about 2030. Variable airs to calm 0900. Gentle E. breeze 1225, backing N.E. 1315 falling off 1600.
18. Fine and half cloudy to clear all day and night. Dew about 2010. N'ly airs to calm at first. Light S. to S.S.W. breeze 0955 backing S.S.E. to E.S.E. force 3, 1200, falling off 1700, backing N'ly 1920.
19. Fine and half cloudy to clear all day except for cloudy conditions 1530 to 1630. N.N.E. winds force 1/2 at first. Calm 0850. Light W'ly breeze gradually backing to S. and E. force 2/3, backing to N.E. to N. airs to calm 1800. Dew at night.
20. Fine all day, clear sky to part cloudy and unusual visibility, but becoming cloudy at night. N'ly airs to calm at first. Light W'ly breeze 0900, gradually backing S. and increasing force 3/4, falling off 1915, backing N'ly 2112.
21. Light N'ly winds to calm early, mist on hills to N.W. and unusual visibility. Fine and cloudy to half cloudy all day, except for trace of rain at 1125. Light to gentle S. to S.E. winds 1020 falling off 1630, backing N.E'ly 2040. Lunar halo 1930 to 2010.
22. N'ly winds force 1/2 early, fine and ¾ to ½ cloudy, becoming cloudy to overcast after 1630. Gentle N.E. breeze 0900 increasing force 4 from E. 1145, backing N.E. 1403 and gradually falling off.
23. Variable E. to N.N.E. winds force 1/3 falling to light airs to calm 1625. Overcast all day with intermittent drizzle to 1500 then occasional thin drizzle.
24. Gentle to fresh S.E. breeze 0220 falling off 0400 backing N.N.E. Overcast all day. Moderate rain 0245 to 0500 then light rain, becoming intermittent thick drizzle and rain to 2100. Light to fresh squally S.E'ly breeze 1300, falling off 2225. Distant lightning 1650 to 1730. Maximum wind velocity 25 m.p.h. from S.E. at 0308.
25. Overcast early with drizzle and rain to 0310 and light to moderate S.E. breeze, falling off 2300 backing E.S.E. Sky cleared to half cloudy about 0930. Unusual visibility during the morning, variable sky at night.
26. N'ly airs 0045 veering E.S.E. 0230, increasing force 3/4. Cloudy to overcast but fine with Sc predominating. Variable sky after 1130. Wind backed E. to N.E. 1015 falling off 1800. Dew at night.
27. Fine all day and variable sky, clearing towards evening, but becoming cloudy to overcast after 2200. N'ly winds force 1/3 at first, veering N.E'ly 0840 and to E'ly 1112, backing N.E. 1350 falling off 1745.
28. Fine and cloudy to overcast early, light N'ly winds to calm and AS predominating. Variable sky during the day, overcast afternoon and night. Intermittent rain and drizzle 2245. Light S.W. breeze 1000, increasing force 4 backing S. by W., backing S. to S.E. force 3 after 1800.
29. Variable gusty winds force 1/5 early mainly S.E. Overcast with intermittent rain and drizzle. Continuous thick drizzle and rain all day from 0950 and cloud base down to 100/300 feet at times. Gentle to fresh E.S.E. to S.S.E. breeze after 0900.
30. Overcast all day and cloud base down to 300 feet at times. Light to moderate rain and drizzle to 1515 then occasional thin drizzle. Gusty gentle to strong S.E'ly winds at first, becoming gentle to moderate after 0730. Maximum wind velocity 27 m.p.h. from S.E. by S. at 0520.
31. Overcast with intermittent rain 0230 to 0810 and 1445 to 1710 Variable sky and bright intervals 1810 to 1300. Shower at 2220. Light to fresh gusty and squally S.E. to E.S.E. winds becoming moderate to strong after 1600. Maximum wind velocity 31 m.p.h. from E.S.E. at 1942.

ADDITIONAL REMARKS.

The month was mainly fine, cool and cloudy. Moderate wet spells occurred on 6th to 8th, 23rd to 24th, and 28th to 31st.

Mean pressure at 8 a.m. 0·008″ and mean temperature 1·1° below normal, whilst rainfall was 53 per cent of the normal.

G. B. NASMYTH,
Harbour Master.

Meteorological Observations

TAKEN AT SUVA, FIJI,

DURING JUNE, 1940.

Latitude, 18° 8′ South. Longitude, 178° 26′ East.

HOURS OF OBSERVATION.

(i) 8 a.m. or 2000 G.M.T. (ii) 2 p.m. or 0200 G.M.T.

Local Standard Time being 12 hours fast of Greenwich Mean Time.

Height of Cistern of Barometer above Mean Sea Level, 12 feet; Site of Rain gauge, 8 feet; Diameter of Rain-gauge, 8 inches. Height of other Instruments above ground:—Rim of Rain-gauge, 12 inches; Thermometers, 4 feet 6 inches; Sunshine Recorder, 3 feet 3 inches; Vane of Dine's Pressure Tube Anemometer, 48 feet 6 inches; Robinson Cup Anemometer (run of the wind pattern), 41 feet 6 inches

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Maximum Thermometer set at 8 h. Read at 8 h.

Minimum Thermometer set at 8 h. Read at 8 h.

Grass Min. Thermometer set at 16 h. Read at 8 h.

JUNE.

Day.	Attached thermometer and barometer as read in inches. I		II		Air Pressure at Mean Sea Level in the Units of Measurement. I	II	Temperature (degrees F.) In Screen. I Dry.	Wet.	II Dry.	Wet.	In Open. Maximum.	Minimum.	Grass Min. Eve to Morn.	Max. in Sun. Black Bulb in vacuo	In Ground. I 1 foot.	4 feet.	Humidity. I Dew Point.	II	Vapour Pressure. I	II	Percentage. I	II	Wind Direction and Force (Beaufort Scale). I		II	
							Tenths.				Whole Degrees.				Tenths.											
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	24	(25)	26
	°	"	°	"	"	"	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.			Dir.	F	Dir.	F
1	75	30·216	78	30·152	30·038	29·967	74·4	70·4	77·9	72·0	80	70	68	118	75·4	78·0	68	69	23·3	24·1	81	74	E.S.E.	5	E.S.E.	4
2	76	30·202	78	30·162	30·023	29·977	75·0	70·0	78·0	72·2	79	72	70	127	76·0	78·0	67	69	22·8	24·1	77	75	E.	3	E.S.E.	4
3	76	30·176	78	30·108	29·997	29·923	76·0	72·6	77·9	73·1	79	71	70	101	76·0	77·7	71	71	25·7	25·5	84	79	EXN	4	E.	4
4	76	30·140	79	30·068	29·961	29·880	74·0	73·2	79·0	72·0	81	72	69	112	76·0	77·4	72	68	27·3	23·7	96	70	N.E.	3	EXN	4
5	75	30·117	79	39·074	29·940	29·886	73·0	71·2	78·8	72·2	80	70	67	104	76·2	77·4	70	69	25·0	24·4	91	71	N.N.E.	1	E.	3
6	77	30·162	78	30·120	29·980	29·935	76·2	72·0	78·0	74·0	80	74	71	92	76·4	77·2	70	72	25·0	26·9	81	82	E.S.E.	3	SEXE	3
7	76	30·190	79	30·128	30·011	29·940	75·4	70·4	79·1	72·9	80	70	68	104	76·0	77·2	67	70	22·8	25·1	78	74	E.S.E.	3	EXN	4
8	75	30·186	77	30·130	30·009	29·948	72·4	72·0	75·2	73·8	79	70	70	87	76·0	77·4	71	73	26·1	27·5	98	93	NEXN	2	E.N.E.	3
9	76	30·144	80	30·092	29·965	29·902	75·4	74·4	79·8	76·0	83	73	71	117	76·2	77·4	74	74	28·2	28·9	95	83	N.E.	2	N.E.	4
10	78	30·064	78	30·050	29·879	29·865	77·0	76·2	76·0	75·0	81	74	73	104	77·0	77·3	76	75	30·2	29·2	96	95	N.N.E.	2	SWXW	5
11	74	30·106	76	30·084	29·932	29·905	71·6	70·0	75·8	70·0	77	69	69	99	76·8	77·3	70	67	24·8	22·4	92	74	SEXE	3	S.S.E.	4
12	74	30·167	74	30·138	29·993	29·964	69·0	66·6	73·1	66·9	74	66	66	97	76·0	77·3	65	63	21·1	19·9	88	71	S.S.E.	3	S.	3
13	73	30·238	75	30·180	30·067	30·003	72·2	64·2	75·6	66·6	78	68	64	109	75·2	77·0	59	61	16·8	18·6	63	61	E.	2	S.E.	3
14	73	30·264	75	30·211	30·093	30·033	72·0	67·0	75·2	67·2	76	66	62	101	75·0	76·8	64	62	20·4	19·0	76	65	E.	3	EXS	3
15	73	30·228	76	30·160	30·057	29·981	71·6	68·0	76·1	69·0	78	68	65	107	74·7	76·1	66	65	22·2	21·1	82	69	NXE	1	E.	3
16	74	30·164	77	30·106	29·990	29·924	70·0	69·0	78·2	72·2	79	68	65	121	75·0	76·0	69	69	23·8	24·1	95	74	N.	1	EXN	4
17	75	30·188	79	30·142	30·010	29·954	74·8	70·4	80·0	73·2	81	69	65	136	75·0	76·2	68	69	23·5	24·6	79	71	EXS	3	E.	4
18	77	30·202	79	30·156	30·019	29·968	75·1	72·5	79·0	74·6	81	72	69	110	75·3	76·4	71	72	26·2	27·2	88	80	SEXE	3	EXS	4
19	76	30·210	78	30·128	30·029	29·943	72·6	71·4	77·8	75·2	78	70	68	99	75·8	76·5	71	74	26·4	29·0	94	88	E.	3	EXS	3
20	77	30·168	80	30·118	29·986	29·928	77·0	75·0	81·4	76·4	82	74	72	130	76·0	76·7	74	74	28·8	28·4	91	79	EXS	3	EXS	4
21	78	30·154	80	30·114	29·969	29·924	75·6	73·8	81·6	76·0	82	71	68	118	76·2	76·9	73	74	27·8	28·7	92	77	Calm	0	E.S.E.	3
22	77	30·190	80	30·166	30·006	29·976	76·0	73·0	80·8	74·2	82	73	70	131	76·8	76·8	72	71	26·4	26·3	86	72	EXN	4	E.	4
23	76	30·206	78	30·180	30·025	29·995	74·6	69·2	76·2	69·6	78	70	68	98	76·4	77·0	66	66	22·2	21·7	75	71	EXN	3	E.	4
24	74	30·184	80	30·122	30·010	20·932	72·0	71·0	80·2	73·4	81	69	66	135	76·0	77·0	71	69	25·5	24·6	95	71	N.	1	EXN	4
25	74	30·096	79	30·032	29·922	29·844	72·0	70·0	79·8	73·2	81	67	61	135	76·0	77·0	69	70	24·2	25·3	90	72	N.	1	SEXE	2
26	74	30·128	75	30·118	29·954	29·941	71·2	70·6	69·8	67·0	74	68	67	81	76·2	76·8	69	65	24·6	21·3	94	86	S.	5	SEXS	5
27	73	30·214	74	30·150	30·043	29·976	71·2	64·0	73·4	64·2	74	67	64	91	75·2	76·8	59	58	17·2	16·4	66	59	S.E.	3	SEXE	3
28	73	30·178	75	30·132	30·007	29·955	72·8	65·8	73·6	67·8	75	67	63	90	74·4	77·0	62	64	18·7	20·7	67	73	E.S.E.	3	E.S.E.	3
29	74	30·114	76	30·062	29·940	29·883	72·0	69·2	77·4	71·0	78	69	65	112	74·2	76·8	67	67	22·9	22·6	86	72	N.E.	3	E.	3
30	75	30·122	76	30·096	29·945	29·917	72·1	70·7	77·0	71·6	78	68	65	102	74·8	76·7	70	68	24·8	23·9	93	76	SEXE	1	E.S.E.	3
Tls.	2254	905·118	2326	903·679	899·800	898·169	2204·2	2113·2	2321·7	2152·5	2369	2095	2019	3268	2272·2	2310·1	2061	2058	724·7	725·2	2569	2257	...	..	...	..
Mns	75·1	30·171	77·5	30·123	29·993	29·939	73·5	70·4	77·4	71·8	78·9	69·8	67·3	108·9	75·7	77·0	68·7	68·6	24·2	24·2	85·6	75·2	...	..	...	..

Temperature—
Daily Range: Mean Max.—Mean Min.—9·1°.
Greatest Range—14° on 25th.
Least Range—6° on 6th and 26th.
Mid Temperature: ½ (Max. + Min.)—74·4°.
Highest Maximum—83° on 9th.
Lowest Minimum—66° on 12th and 14th.
Lowest Maximum—74° on 12th, 26th and 27th.
Highest Minimum—74° on 6th, 10th and 20th.
Lowest Grass Minimum—61° on 25th.

Humidity—
Greatest Humidity—98 per cent. on 8th at 8 a.m.
Least Humidity—59 per cent. on 27th at 2 p.m.

Air Pressure—
Highest Value at M.S.L.—30·093″ on 14th at 8 p.m.
Lowest Value at M.S.L.—29·844″ on 25th at 2 p.m.

No. of days of—
Rain—20.
Hail—0.
Thunderstorms—0.
Fog—0.
Gales (force 8 or more)—0.

Rainfall—
Total—6·06″ or 153·92 mm.
Average for 56 years—6·27″.
Difference from normal— − 0·21″.
Greatest fall in 24 hours—2·40″ or 60.96 mm on 18th.
Total since 1st January—54·29″.

VISIBILITY SUMMARY—No. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8 a.m.	0	0	0	0	0	0	1	0	0	4	4	12	4	5
2 p.m.	0	0	0	0	0	0	1	1	0	5	2	14	5	2

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.

JUNE.

Wind. Miles run for previous 24 hours.	Wind. Mean velocity.	Weather for 24 hours ending midnight. (Beaufort Letters). Before Obser'tion.	At time of Obser'tion.	Between Obser'tion hours.	At time of Obser'tion.	After Obser'tion.	Visibility.		Cloud. Amount (0–10).		Form.		Direction whence coming.		Amount of Rain. 6 hours during the day measured at 14h.	Amount of Rain. 18 hours measured next morning at 8h.	State of ground.		Sunshine (hours and tenths).	Day
		I	I	I and II	II	II	I	II	I	II	I	II	I	II			I	II		
(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	44	45	(46)	
															"	"				
295·2	12·3	op,c	c	c,bc	c	bc,b,c	K	K	7	8	Cu/Cb	Sc	E.S.E.	E.	Trace	Trace	2	1	4·5	1
312·0	13·0	o,c	c	c	c	c,opP	L	L	8	8	Sc	Sc/Nb	E.	E.	Trace	0·33	1	1	4·2	2
237·6	9·9	op,c	ojp	op,c	cjp	c,opp	J	I	9	8	Cu/Cb/St	Cu/Cb	E.	E.	0·02	0·10	1	1	1·5	3
204·8	8·5	op	ojp	o,c,bc	cjp	o,c,bc	J	K	9	8	Cb/Nb	Ac/Cu/Cb	N.E.	NW/NE	Trace	..	1	1	2·2	4
132·0	5·5	c,o	o	bc,c,o	c	c,o	K	M	9	8	As/Cb	Ac/Cu	?/ENE	W/E	..	..	1	0	2·3	5
213·6	8·9	o	o	op	ojp	oirq	K	J	10	10	As/Cb	As/Cb	WNW/E	?/SE	0·02	0·74	0	0	0·2	6
182·4	7·6	oir	o	oirq	ojp	oird	L	K	10	9	As/St	Ac/Cb	WNW/E	W/ENE	Trace	0·24	1	1	1·2	7
144·0	6·0	oidq	oid	oidc	oid	oirdq,p	F	G	10	10	Nb/St	Nb/St	N.E.	E.N.E.	0·10	0·32	1	1	0·4	8
151·2	6·3	oird	ojp	o,c,bc,p	op	op	I	K	9	9	Cb/St	Ac/Cb	N.E.	WSW/NE	0·02	0·13	1	1	4·6	9
117·6	4·9	op	op	c,op,rq	orrq	orrqd	K	L	10	10	As/Nb/St	As/St	—/NNE	?/SW	0·31	0·53	1	1	0·0	10
256·8	10·7	odr	oid	oid,c	ojp	oid	L	K	9	10	Nb/St	Cb/St	—/SSE	S.E.	Trace	0·05	2	1	0·5	11
196·8	8·2	oidD	oid	oid	oid	o	I	K	10	10	Nb/St	As/Cb	S.E.	?/SSE	Trace	Trace	1	1	0·0	12
189·6	7·9	o,c	cv	op,cv	cv	cv,o	M	M	7	8	Sc	Sc	E.S.E.	E.	Trace	0·04	1	1	2·7	13
199·2	8·3	c,op	o	c,o	o	o,c	M	L	9	9	Sc	Sc	E.	E.	..	Trace	1	0	0·3	14
139·2	5·8	c,o	c	c	c	c,bc,o	M	L	7	8	Ci/Ac/Sc	Ac/Sc	SW/SW/NE	—/NE	..	Trace	0	0	0·3	15
108·0	4·5	o,c	c	o,c,bc	bc	bc,c,op	K	K	8	6	Sc	Sc/Cu	N.E.	E.N.E.	Trace	0·24	0	0	4·3	16
165·6	6·9	c,bc	bc	bc	bc	b,bc,c	L	L	6	6	Cu/Cb	Sc	E.	E.S.E.	..	..	1	0	8·4	17
213·6	8·9	c	cp	c,o,bc	o	oirdRR	K	I	8	8	Cb	Cs/Cb	E.	?/E	Trace	2·40	0	0	2·5	18
169·0	7·0	oRRidr	oir	oirdq	o	oid,c	K	I	10	9	Nb/St	Sc/Cb/St	E.	E.	0·03	0·01	2	2	0·2	19
168·0	7·0	c,bc	bcjp	c,bcz	bcz	bcz,b	I	I	6	4	Ac/Cb	Cu/Cb	W/E	E.	..	0·01	2	1	9·2	20
134·4	5·6	b,cp,bcz	bcz	bcz	bc	bcp,c,b	J	K	4	5	Ci/Cu/Cb	Cu/Cb	?/E	E.S.E.	..	0·10	1	0	7·8	21
206·4	8·6	bc,cp	c	c,bc	bc	bc,cp	J	K	8	6	Cb	Cb	E.	E.	..	0·05	1	0	7·5	22
175·2	7·3	cp,o	o	c,ob	o	c,bc	K	J	9	10	Sc/Cb	Cb	E.	E.	0·03	0·02	1	1	1·0	23
204·8	8·5	bc,cp	c	c,bc	bc	bc,bw	K	K	7	6	Ci/Sc	Ci/Cu	—/—	S/NE	..	..	1	0	6·5	24
124·8	5·2	b	b	b	b	bc,c	K	K	1	2	Ci/Cu	Cu	?/?	....	..	0·05	0	0	8·1	25
153·6	6·4	c,opq	opq	c,opq,ir	oir	oirq	I	F	9	10	Nb/St	Nb/St	S.	S.S.E.	0·05	0·08	1	1	0·2	26
302·4	12·6	op	o	o	oy	o,c,bc	K	L	10	10	Sc	Sc	S.E.	E.S.E.	..	Trace	1	1	0·0	27
216·0	9·0	bc,c	c	c,o	o	op	M	K	7	10	As/Sc	As/Cb	?/ESE	—/ESE	Trace	0·01	0	0	0·8	28
158·4	6·6	op	o	c,o	o	oid,d	M	K	10	9	As/St	Ac/Cb	WNW/NE	WNW/ENE	..	0·03	0	0	1·5	29
122·4	5·1	o	o	c,o	ojp	o,c	K	K	10	9	Sc	Ac/Cb	E.S.E.	?/E	..	Trace	1	0	0·9	30
5593·6	233·0	....	...	....	...	....	..	..	246	243	.....	.....	....	....	0·58	5·48	..	..	83·8	Totals
186·5	7·8	....	...	....	...	....	..	..	8·2	8·1	.....	.....	....	....	..	..	..	..	2·8	Means

CLOUD AMOUNT.

Number of cases of total cloud amount.

Hour.	0	1/3	4/6	7/9	10
8 a.m.	0	1	3	17	9
2 p.m.	0	1	6	14	9

WIND SUMMARY—No. OF OBSERVATIONS OF.

	Force 8 or more.	4/7.	1/3.	Calms.	N.N.W.	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.
8 a.m.	0	4	25	1	0	4	2	4	0	9	4	3	1	2	0	0	0	0	0	0
2 p.m.	0	16	14	0	0	0	0	1	1	15	5	5	1	1	0	1	0	0	0	0
Total	0	20	39	1	0	4	2	5	1	24	9	8	2	3	0	1	0	0	0	0

Prevailing Direction, E.; 8h., E.; 14h., E. Maximum wind velocity, 32 m.p.h. from S. at 0750 and from S.S.E. at 1050 on 26th.

WEATHER DAIRY—JUNE, 1940.

Date.

1. Cloudy to overcast early and light showers 0420 to 0430, and at 0725. Moderate to strong E.S.E. breeze. Variable sky 0845, becoming cloudy to overcast at night with light showers (trace only) 1755 to 2100. Maximum wind velocity 27 m.p.h. from E.S.E. at 1248.
2. Mainly cloudy to overcast and fine all day and moderate to fresh E. breeze with occasional strong gusts. Light to heavy showers from 1905. Maximum wind velocity 31 m.p.h. from E.xS. at 1942.
3. Cloudy to overcast early, variable sky 0830 to 1100, then cloudy to overcast. Gentle to fresh breeze during the day with some strong gusts, becoming gentle to light 1830, backing N.E. 1905. Showers to 0100, light shower 0600, 1020 to 1030 and 1750 to 1940. Moderate showers 2300. Maximum wind velocity 27 m.p.h. from E. at 0120.
4. Light to gentle E. to N.E. winds early, overcast and showers to 0030. Light shower 0735, trace rain 1130. Variable sky during the day mainly cloudy becoming overcast at night, clearing later. Wind increased force 3/5 0950 from E.xN., gradually falling off after 1400 backing N.E.
5. N.N.E. airs to calm early and cloudy to overcast all day with Ac predominating at times. Light to gentle E'ly breeze 0820, backing E.N.E. 2235, veering E.S.E. 2335.
6. Gentle E.S.E. breeze early and overcast. Light showers 1105 to 1225. Moderate intermittent rain 1500 to 1930 and 2225 to 2240. Gentle to moderate breeze after 1000, falling off 1615, becoming moderate to strong 1815 from S., gradually backing S.E. and N.E. 2350. Maximum wind velocity 29 m.p.h. from S.S.E. at 1929.
7. Gentle to strong squally S.E. to E. breeze early and intermittent rain 0210 to 0345. Gentle to fresh E'ly breeze after 0600, backing N.E'ly 1640 falling off. Intermittent rain and drizzle 1455 to 2120. Maximum wind velocity 27 m.p.h. from E.xN. at 0358.
8. Variable N.E. winds early force 1/3 with gentle to fresh squalls 0142 to 0320 and after 1045. Overcast with intermittent drizzle and rain 0230 to 1940. Showers 2300 to 2320. Poor visibility during the day at times and cloud base down to 300 feet. Maximum wind velocity 26 m.p.h. from E.N.E. at 1248.
9. Overcast with intermittent drizzle to 0720, then cloudy with bright intervals, becoming overcast again 1310. Showers 1125, 1555 to 1610 and 2110 to 2400. Light to gentle N.E'ly winds early, increasing force 4/5 1100, gradually falling off 1300. Rainbow 0835.
10. Cloudy to overcast early and light passing showers 0240 to 0925. Light to gentle N.N.E. breeze becoming variable, force 0/2 after 0840, backing S.W'ly 1240, increasing force 4/6 1352, backing S'ly 1435, falling to force 3/5 1500. Light to moderate rain 1200 to 1600, then occasional thin drizzle. Maximum wind velocity 27 m.p.h. from S.xW. at 1448.
11. Gentle to fresh S. to S.S.E. winds becoming gusty and variable S.E. force 2/4 after 1920. Overcast and occasional thin drizzle to 0830 with rain 0555 to 0600. Cloudy 1030 to 1200, then overcast again. Very thin intermittent drizzle from 1600.
12. Overcast all day with intermittent drizzle to 0845, thick drizzle 0420 to 0500, and very thin intermittent drizzle (trace only) 0950 to 1410. Light to moderate S. to S.E. breeze all day except from 0418 to 0650 when wind veered W.N.W. force 2.
13. Cloudy to overcast all day with Sc predominating and unusual visibility. Moderate S.S.E. breeze early backing E. force 2 0620, veering S.E. force 2/4 0925, backing E'ly force 2/3 1930. Light shower 0950 to 1000 (trace).
14. Light to gentle E.S.E. breeze early backing N.E. after 0200 veering E. 0745, increasing force 3/5 after 0900, becoming variable and mainly light after 1700. Cloudy to overcast all day. Light showers 0340 to 0400 and at 0715 and 2150.
15. Cloudy to overcast all day but half cloudy at times during the late afternoon. Light variable N.N.E. winds early, increasing force 3 from E. 0835, gradually falling off after 1600 backing N'ly.

Date.

16. Fine, cloudy to overcast early and N'ly airs to calm, becoming half cloudy about 1230. Variable sky at night. Showers 2225 to 2350. Gentle to moderate E. to E.N.E. breeze 1152, becoming light to gentle E. to N.E. 1655.
17. Fine and cloudy early becoming half cloudy about 0700, variable sky at night. Gentle E. breeze 0400 increasing force 4 0842; gentle breeze after 1700.
18. Gentle E. breeze early and cloudy. Light shower 0800 (trace) and rainbow. Variable sky during the day but mainly cloudy to overcast with low clouds. Gentle to fresh breeze after 0900, falling off 1600 backing N.E. Gentle to moderate E.S.E. breeze 1850. Intermittent rain and drizzle 1625 increasing to heavy rain 2112.
19. Heavy rain 0130 then light intermittent rain and drizzle to 1900. Variable S.E. to N.E. winds force 0/4 early. Gentle E. breeze 0758, becoming squally 1000 to 1110, backing N.E. 1645 falling off. Maximum wind velocity 28 m.p.h. from E.xS. at 1001.
20. Fine and cloudy early becoming half cloudy about 0730, and hazy later. Light to moderate E'ly breeze all day falling off 1720, backing E.N.E. and to N'ly airs to calm 2320. Rainbow 0808.
21. N'ly airs to calm early, half cloudy and hazy. Showers 0345 to 0350, 1500 and 2100. Mainly fine and half cloudy all day clear sky at times after 2200. Light to gentle E. to E.S. breeze 0820, increasing force 3/4 1200.
22. Gentle to moderate E.S.E. breeze early and half to three-quarter cloudy; mainly half cloudy all day. Showers 0225 to 0310, 0650 and 1840 to 2130. Moderate to fresh E. breeze after 1900, backing N.E. after 2000.
23. Gentle to fresh E.N.E. to E. breeze all day, falling off 1800, and cloudy to overcast. Showers 1030 to 1120.
24. Cloudy early; light showers 0330 to 0340 and variable N'ly airs to calm. Variable sky during the day with Ci predominating at times. Half cloudy afternoon and night. Gentle N.E. breeze 0820, veering E. force 4 1000, falling off 1600, backing N.E. Heavy dew at night.
25. Clear to cloudless sky early and N'ly airs to calm, becoming half to three-quarter cloudy 1520. S'ly airs 0940 increasing force 2/3, S. to S.E., after 1100, gradually falling off 1500, backing N'ly 2000. Zodiacal light 1910. Mackrel sky 2200.
26. N'ly airs to calm at first. Gentle S.S.W. breeze 0330 becoming squally force 4/6 0700 and gradually backing S. to S.E., moderating 2220. Overcast and showers 0200 to 0210, 0735 to 0810 and 0920 to 0950. Light intermittent rain 1330 to 1410, moderate intermittent rain 1840 to 1910. Maximum wind velocity 32 m.p.h. from S at 0750 and from S.S.E. at 1050.
27. Gentle to fresh S.E'ly breeze all day, mainly E.S.E. after 0900, and overcast with Sc. predominating. Light shower 0335 and at 2005 (trace).
28. Fine and cloudy early, becoming overcast 0830, and light to moderate E.S.E. breeze with occasional fresh gusts. Wind backed N.E. after 2100 falling off. Light shower 1900. Maximum wind velocity 24 m.p.h. from E.S.E. at 1838.
29. Mainly overcast all day but cloudy at times. Light shower 0540. N.E. winds force 1/2 at first veering E.S.E. force 2/3 0320, backing N.E. 0740 falling off 0808. Light to gentle E. breeze 1103, falling off 1545 gradually backing N'ly. Intermittent drizzle 1635 to 2100.
30. N'ly airs to calm early. Cloudy to overcast all day and light to gentle E.S.E. breeze from 0758. Trace rain 1715.

ADDITIONAL NOTES.

An average June. Departures from normal were slight and as follows:—Mean pressure at 8 a.m., + 0·017″; mean temperature, − 0·5°; rainfall, − 0·21″.

There was much cloud and little sunshine, and in consequence day temperatures were mild, the average maximum being 1·3° below normal.

Rain fell on 20 days and, except for the heavy fall on the 18th, was mainly light and intermittent.

W. F. D. HAY,
Acting Harbour Master.

Suva, 2nd July, 1940.

Meteorological Observations

TAKEN AT SUVA, FIJI,

DURING JULY, 1940.

Latitude, 18° 8′ South. Longitude, 178° 26′ East.

HOURS OF OBSERVATION.

(i) 8 a.m. or 2000 G.M.T. (ii) 2 p.m. or 0200 G.M.T.

Local Standard Time being 12 hours fast of Greenwich Mean Time.

Height of Cistern of Barometer above Mean Sea Level, 12 feet; Site of Rain gauge, 8 feet; Diameter of Rain-gauge, 8 inches. Height of other Instruments above ground:—Rim of Rain-gauge, 12 inches; Thermometers, 4 feet 6 inches; Sunshine Recorder, 3 feet 3 inches; Vane of Dine's Pressure Tube Anemometer, 48 feet 6 inches; Robinson Cup Anemometer (run of the wind pattern), 41 feet 6 inches

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Maximum Thermometer set at 8 h. Read at 8 h.

Minimum Thermometer set at 8 h. Read at 8 h.

Grass Min. Thermometer set at 16 h. Read at 8 h.

JULY.

Day.	Attached thermometer and barometer as read in inches.				Air Pressure at Mean Sea Level in the Units of Measurement.		Temperature (degrees F.)										Humidity.						Wind Direction and Force (Beaufort Scale			
							In Screen.				In Open.				In Ground.		Dew Point.		Vapour Pressure.		Per-centage.					
	I		II		I	II	I		II		Maximum.	Minimum.	Grass Min. Eve to Morn.	Max. in Sun. Black Bulb in vacuo.	1 foot.	4 feet.	I	II	I	II	I	II	I		II	
							Dry.	Wet.	Dry.	Wet.																
							Tenths.				Whole Degrees.				Tenths.											
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	24	(25)	26
	°	″	°	″	″	″	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.			Dir.	F	Dir.	F
1	75	30·168	77	30·128	29·991	29·946	74·0	70·0	76·0	71·6	79	72	68	110	75·0	76·1	68	69	23·3	24·4	81	80	ESE.	2	SE.XS.	4
2	74	30·220	75	30·176	30·045	29·999	71·6	64·8	74·1	65·7	77	69	64	104	75·0	76·0	61	60	18·0	17·7	68	62	SE.XE.	3	SE.XE.	5
3	73	30·188	76	30·128	30·017	29·949	70·4	62·6	76·2	64·8	77	67	61	113	74·0	76·0	56	57	15·4	15·6	62	51	ESE.	4	E.XS.	5
4	73	30·146	74	30·083	29·976	29·909	68·4	64·0	72·2	65·0	73	63	56	104	74·4	76·0	61	61	18·0	18·0	78	66	E.XS.	4	E.	4
5	72	30·100	74	30·028	29·932	29·854	65·6	65·0	71·3	66·3	74	64	62	100	73·0	75·4	65	63	21·2	19·6	97	76	E.N.E.	1	S.E.XS.	3
6	70	30·048	74	29·992	29·886	29·818	67·2	63·8	73·0	65·2	74	63	60	116	73·2	75·1	61	60	18·5	17·5	82	64	N.	1	S.	3
7	71	30·068	73	30·028	29·903	29·858	65·0	63·0	73·0	63·6	74	60	58	117	73·0	75·0	62	57	18·8	15·8	89	57	N.	1	S.	3
8	72	30·140	74	30·092	29·972	29·918	70·0	61·6	73·8	63·4	75	67	62	130	73·0	75·0	55	56	14·9	15·3	60	54	S.S.E.	3	S.	3
9	72	30·168	75	30·130	30·000	29·953	66·2	62·6	74·0	63·0	77	62	56	115	72·6	75·2	59	55	17·2	14·8	79	52	N.	2	S.E.XS.	3
10	73	30·202	74	30·174	30·031	30·000	71·2	64·6	75·4	66·6	76	66	62	125	72·4	75·2	60	60	17·8	17·8	69	61	E.S.E.	3	E.S.E.	3
11	72	30·252	76	30·220	30·083	30·039	71·4	64·0	76·4	67·0	78	66	59	115	72·2	75·1	58	60	16·7	18·0	65	59	E.XN.	3	E.XN.	4
12	73	30·216	74	30·152	30·045	29·978	71·0	67·0	72·6	70·6	74	69	62	93	72·2	75·0	65	70	20·8	25·0	80	90	N.E.XN.	1	N.N.E.	1
13	74	30·174	78	30·110	30·000	29·925	73·6	72·0	80·2	74·4	81	70	69	128	72·8	74·7	72	71	26·6	26·0	92	75	N.N.E.	2	NEXN.	3
14	76	30·200	78	30·162	30·190	29·977	72·1	71·1	78·2	75·2	79	70	67	121	74·0	74·8	71	74	25·5	28·3	95	86	N.	1	S.XW.	3
15	76	30·212	76	30·146	30·031	29·967	72·8	71·4	75·2	71·8	77	71	70	94	74·7	74·9	71	70	25·7	24·8	93	84	SEXE.	4	S.E.	4
16	74	30·158	77	30·102	29·984	29·920	70·8	69·8	78·0	72·0	79	68	68	135	74·4	74·9	69	69	24·6	24·1	95	74	N.XE.	1	EXS.	4
17	73	30·196	75	30·130	30·025	29·953	70·0	69·0	74·0	71·4	76	68	68	94	74·6	75·0	69	70	23·8	25·2	95	88	N.N.E.	1	N.E.	3
18	76	30·162	81	30·114	29·983	29·921	76·0	72·4	84·4	75·0	85	69	66	135	74·8	75·0	71	70	25·7	24·9	83	63	N.N.E.	3	NXE.	3
19	78	30·142	83	30·084	29·957	29·885	76·8	72·0	85·4	75·8	88	72	69	141	75·3	75·4	69	71	24·6	25·9	78	63	N.	2	NE.XN.	3
20	78	30·112	78	30·112	29·927	29·927	77·0	72·9	76·4	72·8	77	72	69	104	76·0	76·0	71	71	26·1	25·7	81	83	W.S.W.	3	S.XE.	3
21	76	30·190	77	30·178	30·010	29·995	72·4	67·2	75·0	67·0	77	70	64	94	75·6	75·8	64	62	20·4	19·0	75	64	E.S.E.	2	E.XS.	3
22	73	30·252	76	30·211	30·081	30·030	71·2	68·0	76·0	67·4	76	68	65	109	75·0	75·7	66	62	22·0	19·2	84	62	Calm	0	E.N.E.	3
23	73	30·226	77	30·176	30·055	29·993	70·6	68·0	77·4	70·0	79	66	64	103	74·4	75·8	67	65	22·7	21·2	87	68	N.N.E.	1	NE.XN.	3
24	76	30·124	79	30·067	29·945	29·879	75·0	72·0	78·0	75·0	82	69	66	114	74·6	75·6	71	74	25·5	28·3	86	86	N.N.E.	3	NE.XN.	3
25	76	30·112	76	30·099	29·933	29·920	73·8	72·2	74·2	72·0	75	71	70	87	75·1	75·6	72	71	26·6	25·9	92	89	SWXW.	3	S.S.W.	3
26	74	30·196	76	30·151	30·021	29·971	72·2	70·0	76·1	71·0	77	70	69	96	75·1	75·4	69	68	24·2	23·7	89	78	W.	1	S.E.	2
27	73	30·240	77	30·194	30·069	30·010	71·2	70·4	77·9	71·5	80	69	69	112	75·2	75·6	69	68	24·6	23·5	96	72	NXE.	1	E.S.E.	3
28	75	30·210	75	30·146	30·032	29·969	71·2	70·2	73·2	71·8	74	70	69	97	75·4	75·5	69	71	24·6	25·7	95	93	E.S.E.	2	E.S.E.	3
29	74	30·192	78	30·128	30·017	29·943	73·1	71·5	78·6	73·0	81	70	67	126	75·2	75·4	71	71	25·7	25·7	92	76	N.E.	1	NE.XN.	3
30	75	30·164	78	30·120	29·987	29·935	72·0	70·0	77·6	72·8	79	69	64	133	75·5	75·5	69	71	24·2	25·5	90	79	N.	1	S.S.E.	4
31	75	30·152	76	30·108	29·975	29·929	73·0	72·2	76·4	70·0	79	69	68	124	76·0	75·7	71	66	26·4	21·7	96	71	E.S.E.	3	SE.XE.	3
Tls.	2295	935·330	2367	933·869	929·932	928·270	2216·8	2114·9	2360·2	2162·7	2409	2109	2011	3489	2303·7	2337·4	2052	2044	690·1	683·8	2604	2226	...	..	...	..
Mns	74·0	30·172	76·4	30·125	29·998	29·944	71·5	68·2	76·1	69·8	77·7	68·0	64·9	112·5	74·3	75·4	66·2	65·9	22·3	22·1	84·0	71·8	...	..	...	..

Temperature—
Daily Range: (Mean Max.—Mean Min.)—9·7°.
Greatest Range—16° on 18th and 19th.
Least Range—4° on 25th and 28th.
Mid Temperature: ½ (Max. + Min.)—72·9°.
Highest Maximum—88° on 19th.
Lowest Minimum—60° on 7th.
Lowest Maximum—73° on 4th.
Highest Minimum—72° on 1st, 19th and 20th.
Lowest Grass Minimum—56° on 4th and 9th.

Humidity—
Greatest Humidity—97 per cent. on 5th at 8 a.m.
Least Humidity—51 per cent. on 3rd at 2 p.m.

Air Pressure—
Highest Value at M.S.L.—30·083″ on 11th at 8 a.m.
Lowest Vaulve at M.S.L.—29·818″ on 6th at 2 p.m.

Prevailing Direction, N., E.S.E., and S.E.; 8h., N.; 14h., S.E.

No. of days of—
Rain—22.
Hail—0.
Thunderstorms—0.
Fog—0.
Gales (force 8 or more)—0.

Rainfall—
Total—4·62″ or 117·35 mm.
Average for 56 years—5·44″.
Difference from normal———0·82″.
Greatest fall in 24 hours—0·78″ or 19·81 mm on 28th.
Total since 1st January—58·91″.

VISIBILITY SUMMARY—No. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8 a.m.	0	0	0	0	0	0	2	0	1	4	5	9	3	7
2 p.m.	0	0	0	0	0	0	1	0	3	3	5	8	6	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—4⅓ miles, J—6¼ miles, K—12½ miles, L—18⅔ miles, M—31 miles.

JULY.

Wind. Miles run for previous 24 hours.	Wind. Mean velocity.	Weather for 24 hours ending midnight. (Beaufort Letters). Before Obser'tion.	At time of Obser'tion.	Between Obser'tion hours.	At time of Obser'tion.	After Obser'tion.	Visibility.		Cloud. Amount (0-10).		Form.		Direction whence coming.		Amount of Rain. 6 hours during the day measured at 14h.	Amount of Rain. 18 hours measured next morning at 8h.	State of ground.		Sunshine (hours and tenths).	Day.
		I	I	I and II	II	II	I	II	I	II	I	II	I	II			I	II		
(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	44	45	(46)	
244·8	10·2	c,o	o	c,o	ojp	op	M	H	9	9	Ac/Cb	Nb/St	W/ESE	S.E.	..	0·02	0	0	2·6	1
218·4	9·1	bcv	ov	ov,c,bc	c	c,bc,o	M	L	9	8	Sc	Sc/Cu	S.E.	S.E.	..	..	0	0	1·9	2
288·0	12·0	c,o	o	c,bc	bcy	c,o,bc	K	K	9	6	Sc	Ci/Sc/Cu	E.	W/E	..	Trace	0	0	7·7	3
216·0	9·0	bc,c	cjp	c,ord	cjp	cp,bc,odr	J	I	8	8	Sc/Cb	Sc/Cu/Cb	E.	E.	0·34	0·42	0	1	0·7	4
122·4	5·1	oid,rr	orr	oid,c	cjp	cv,o,bc	F	J	10	7	St	Sc/Cb	E.N.E.	S.E.	0·01	..	2	1	1·9	5
100·8	4·2	c,bc,bv	bcv	bcv	bcv	bcv,b	M	M	4	6	Sc/Cu	Sc	S.W.	W.	..	Trace	1	0	7·3	6
148·8	6·2	bcv,c	cv	cv,bc,b	bvy	b,bc,c,od	M	M	7	2	Sc/Cu	Cu	S.	S.	..	Trace	0	0	7·8	7
213·6	8·9	o,cv	cv	bc,bv	cvy	cv,bc,b	M	M	7	7	Ci/Sc/Cu	Cu	W/S	N.E.	..	..	0	0	6·5	8
128·0	4·5	b,bc	bc	bc,b,c	cy	c,o	M	M	6	7	Ac/Cu	As/Cu/Cb	W/SE	W/SE	..	..	0	0	7·1	9
231·4	9·6	c,o	o	c,op	c	c,op,c	L	K	10	8	As/Cb	Cu/Cb	?/E	E.S.E.	Trace	0·01	0	0	0·9	10
228·0	9·5	c,o	o	o,c,bc	cy	bc,c,o	M	L	9	7	Sc	Cu	E.	E.	..	Trace	0	0	5·4	11
96·0	4·0	c,o	ojp	oid	oid	oid	J	J	10	10	As/Nb	As/Nb	?/NE	?/NE	0·04	0·05	0	0	0·0	12
139·2	5·8	oid	oid	oid,c	cjp	bc,c,oird	I	L	10	7	Nb/St	Ci/Cu/Cb	N.E.	WSW/NE	0·02	0·11	0	0	3·9	13
115·2	4·8	o	o	o,c,bc	c	bc,c,olrR	K	L	10	7	Sc	Ci/Ac/Cu/Cb	N.	W/W/SE	..	0·53	1	0	6·3	14
156·0	6·5	op	ojp	oid	ojp	oidr	I	I	10	9	Nb/St	Sc/St	S.E.	S.E.	0·02	0·31	1	1	0·0	15
177·6	7·4	oird	oid	c,bc	bcjp	bc,c,oird	J	J	9	6	Sc/St	Sc/Cb	E.N.E.	E.	..	0·29	1	1	3·7	16
153·6	6·4	oidrq	oid	oid	oid	o,c,bc,b	K	H	10	9	Sc/St	Sc/St	N.	N.E.	0·01	Trace	1	1	1·0	17
105·6	4·4	b,bc,c	c	c,bc	c	bc,c	K	K	7	7	Sc/Cu	Sc/Cu	N.	N.N.E.	..	Trace	1	0	5·8	18
132·0	5·5	bc,b	b	b,bc,c	c	bc,b	K	L	1	7	Sc	Sc/Cu	?	N.	..	..	0	0	8·7	19
211·2	8·8	b,bc	cjpu	our,id	o	o,c,bc	I	K	7	9	Ac/Sc/Nb/St	As/St/Ns	SW/WSW	?/S	0·40	Trace	0	0	1·3	20
220·8	9·2	bc,c	c	c,o	o	c,bc,op	L	M	7	9	Sc/Cu	Sc	EXS	E.S.E.	..	0·06	0	0	0·3	21
129·6	5·4	op	ojp	op	o	o,c	J	K	9	9	Sc/St	Sc	E.N.E.	E.N.E.	0·02	..	1	1	0·3	22
153·6	6·4	c,o	o	c,o	o	oid	L	K	9	9	As/Cu	As/Cu	?/NE	?/NE	..	0·02	0	0	1·3	23
132·0	5·5	o,c	c	c,op	op	c,orRd	K	I	7	8	Ci/Ac/Sc/Cu/St	Cu/Cb	W/WNW/N	NE	0·01	0·71	0	1	3·6	24
156·0	6·5	oid,rq	ojp	oid	oid	oidqbc,cop	K	H	10	10	Nb/St	Nb/St	S.W.	S.S.W.	0·02	0·06	1	1	1·5	25
196·8	8·2	op,c	o	ojp	ojp	oidD	K	K	9	9	Sc/Cu	Sc/St	S.E.	S.E.	..	0·29	1	1	0·0	26
115·2	4·8	oDr	ojp	o,cd	c	oid	H	L	9	8	Ns/St	Cu/Sc/St	E.S.E.	E.S.E.	Trace	0·07	2	1	2·0	27
184·8	7·7	oid	oid	oidr	oir	oidr	F	F	10	10	Ns/St	Ns/St	E.S.E.	E.S.E.	0·20	0·58	1	1	0·0	28
208·8	8·7	oidr,cp,bc	ojp	o,cp	cjp	op,c,bc,bw	I	J	9	7	Sc/St	Ci/Cu/St	N.E.	WSW/NE	0·01	0·04	2	1	4·1	29
122·4	5·1	b,bc,c	c	cp,bc	c	cp,bc	K	J	8	7	Ci/Cu/St	Cs/Sc/Cu	—/S	?/SSE	Trace	0·04	1	1	6·1	30
237·6	9·9	c,op	ojp	op,c	cjp	oid,irq	J	K	9	8	Sc/Cu/St	Ci/Cu/Sc/St	S.E.	?/SE	Trace	0·27	1	0	1·7	31
5264·2	219·3	....	...	....	...	....	..	..	258	240	.....	.....	....	....	0·74	3·88	..	..	101·4	Totals
169·8	7·1	....	...	....	...	....	..	..	8·3	7·7	.....	.....	....	....	..	..	..	..	3·3	Means

CLOUD AMOUNT.

Number of cases of total cloud amount.

Hour.	0	1/3	4/6	7/9	10
8 a.m.	0	1	2	19	9
2 p.m.	0	1	3	24	3

WIND SUMMARY—No. OF OBSERVATIONS OF.

	Force 8 or more.	4/7.	1/3.	Calms.	N.N.W.	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.
8 a.m.	0	3	27	1	0	8	5	2	1	2	6	2	1	0	0	1	1	1	0	0
2 p.m.	0	8	23	0	0	1	1	6	1	5	3	7	1	5	1	0	0	0	0	0
Total	0	11	50	1	0	9	6	8	2	7	9	9	2	5	1	1	1	1	0	0

Wind—Total miles, 5264·2; mean velocity, 7·1 m.p.h.; maximum velocity, 30 m.p.h. from E.S.E. at 1948 on 2nd.

WEATHER DAIRY—JULY, 1940.

Date.

1. Gentle E.S.E. breeze early, cloudy to overcast and Ac. predominating, increasing force 3/5 after 1000. Light showers 1620 to 1835.

2. Gentle to moderate S.E. to E.S.E. breeze at first, becoming moderate to fresh 1200, backing E. force 3/4 2100. Cloudy to overcast during the day, and unusual visibility, variable sky at night. Maximum wind velocity 30 m.p.h. from E.S.E. at 1948.

3. Gentle to fresh E. to E.S.E. breeze all day, and fine with variable sky, becoming light to moderate 1700, falling to N'ly airs 2235. Rainbow 1710. Zodiacal light 1905.

4. Fine and cloudy early and light N'ly winds, becoming gentle to moderate E'ly 0610. Rainbow 0810. Rain and drizzle 0915 to 1245, intermittent drizzle and rain 2100 to 2310. Variable winds force 1/3 E. to W.N.W. 0900 becoming moderate E'ly 1200, falling to force 2/3 1540, N'ly airs 2340.

5. Light variable E.N.E. to N.W. airs early, overcast, poor visibility and intermittent drizzle 0030 to 0915 with light rain 0645 to 0810, then fine with variable sky, mainly cloudy, but showers visible to N.W. and S.W. Unusual visibility at times during the afternoon. Wind veered E. 2 0950 and to S.E. +o S. S. 2/3 1130 falling off 1540, backing N'ly 1920. Gentle S'ly breeze 2225 to 2300, then N'ly airs.

6. Fine, clear to half cloudy and unusual visibility all day. N'ly airs to calm early. Light to moderate S'ly breeze 0912. veering N'ly 1940, falling off, Zodiacal light 1910.

7. Fine, cloudy and unusual visibility and N'ly airs to calm early, sky clearing 0930 becoming cloudy to overcast about 1740. Thin drizzle (trace) 1855 to 1905. Gentle S.S.W. to S.S.E. breeze 1015.

8. Gentle S. to S.S.E. breeze, fine and cloudy to clear, and unusual visibility all day. Light breeze 2035.

9. Fine and clear to half cloudy early, and gentle S.S.E. breeze gradually falling off 0620. Gentle to moderate S.S.E. to S.E. breeze 0908, gradually falling to force 2 after 1630. Cloudy to overcast afternoon and night.

10. Fine and cloudy to overcast all day except for light showers 1030 (trace) and 1850 to 1915 N'ly airs at first, light to moderate E.S.E. breeze from 0235.

11. Fine all day with variable sky, Sc. predominating during the day and A-Cu. at night. Light to moderate E'ly winds, backing N.E. after 1700, falling off to force 2.

12. Overcast all day with N.N.E. to N.E. winds force 1/2. Calm 1855. Trace rain 0845. Slight intermittent drizzle 0930 to 1910.

13. Overcast early and N.N.E. winds force 1/3 with thin intermittent drizzle 0120 to 1130, then sky cleared, becoming overcast about 1730 with rain and drizzle 1850 to 2200. Wind increased force 3/4 1215, falling to force 1 3 1800.

14. Overcast early and N'ly airs to calm becoming 3/4 to half cloudy about 0930 and overcast again 2100. Light S/w breeze 1050, falling off 1920. Light to gentle variable S.E. breeze 2130 and rain to 2320.

15. Overcast with low clouds and showers 0010 to 0730 and moderate to fresh S.E'ly breeze 0300. Light to gentle breeze after 1600. Thin intermittent drizzle 0925 increasing to light rain 2210.

16. Overcast early with intermittent drizzle and rain to 0800 and from 1905. Variable sky 0900 to 1730. Rainbow 0930. Light to gentle S.E. breeze at first backing N.E'ly force 1/2 0415, increasing force 4 veering E. 1140, falling to force 1/3 1600 backing N.E'ly.

17. Light to gentle N.E. winds early and intermittent drizzle to 1405. N.W. squall (22 m.p.h.) 0628 to 0635 with rain then N.N.E. airs to calm. Light to gentle N. to N.N.E. winds 0940 falling 1630 and sky becoming cloudy to half cloudy with Ac. and St-Cu.

18. Fair with variable sky all day. N.N.E. airs to calm early. Light to gentle N.N.E. breeze from 0735.

19. Light N.N.E. winds to calm early, fine and clear sky becoming cloudy about 1330, clearing 1530. Cloudless at times at night. Gentle to moderate N.N.E to N.N.W. winds 1032 backing S.W'ly 1420, veering N.W'ly 1830, increasing force 4/5 N.N.W. 2325.

Date.

20. Fine and clear to half cloudy early and moderate to fresh N.N.W. breeze falling off 0130 backing N.W., becoming variable W. to S.W. airs 0642, increasing force 3 0740. Heavy bank of low cloud to S.W. 0730. Overcast and light rain 0815 to 0842 then occasional thin drizzle to about 1200. Variable sky at night. Wind backed S'ly 1040, then very gradually backing E.S.E.

21. Fine and cloudy early with light to gentle E.S.E. breeze. Mainly overcast all day with variable sky 1920 to 2130. Gentle to moderate E'ly breeze during the day falling off 2100 backing N.E'ly. Moderate E. squall 2212 to 2228 and passing showers.

22. Overcast to cloudy all day. Passing showers 0046 to 0840. 0046 – 0405 and 0830 – 0840. Variable airs to calm at first. Variable N.E. winds force 0/3 0315 becoming light to gentle with moderate gusts 0830, veering E.N.E. falling off 1700 backing N.E.

23. N'ly airs to calm early and overcast with As. predominating. Red sunrise. Cloudy at times during the day overcast afternoon and night. Thin intermittent drizzle 2248 to 2332. Light to moderate N.N.E. to E.N.E. winds all day from 0925.

24. Light to moderate N.N.E. to N.E. winds all day and cloudy to overcast. Light showers 1345 to 1405. Moderate to heavy rain 1645 to 1815. Light to moderate rain 1940 to 2135 then drizzle.

25. Intermittent drizzle and light rain to 0730 and overcast with low clouds. Thin intermittent drizzle 1015 to 1430. Light N.N.E. to N.E. wind. Gentle W'ly squall 0400 to 0420. Gentle S.S.W. to W.S.W. breeze 0542 with fresh squall 1455 to 1510, falling off 0030 becoming variable. Sky cleared about 1550, becoming cloudy to overcast 2130 with light showers. Maximum wind velocity 23 m.p.h. from S.S.W. at 1504.

26. Light showers to 0130 then W'ly airs to calm 0310 and cloudy to overcast. Mainly overcast all day and night. Light S.E. breeze 1012, gradually backing E'ly falling off 1800, becoming variable N.E. 2150. Thin intermittent drizzle 1715, increasing to thick drizzle 2300.

27. Thick drizzle to 0110. Thick drizzle and rain 0415 to 0740, overcast and variable airs to calm. Low clouds 300 to 600 feet. Light E'ly breeze 0808 increasing to gentle to moderate breeze after 0900, with fresh gusts from 2030. Cloudy 1230 to 1415 then overcast. Occasional thin drizzle 1435, increasing to moderate intermittent drizzle 2020.

28. Light variable E.S.E. to E.N.E. breeze 0200 with moderate gusts, overcast with low cloud 300/600 feet, and intermittent drizzle to 1010. Intermittent drizzle and rain 1200 increasing to moderate rain 2025. Gentle to fresh E. to E.S.E. breeze from 1135. Maximum wind velocity 25 m.p.h. from E. at 2333.

29. Wind backed N.E. 0120 falling off. Intermittent rain and drizzle to 0110, then half cloudy to cloudy. Light shower 0540. Overcast 0745. Rainbow 0830 to 0920. Showers at 0920, 1505 to 1575, and at 1645. Gentle E.N.E. to N.N.E. breeze 0912, becoming gusty force 4/5 1220 to 1330, falling off 1520. N'ly airs to calm 2150. Clear sky at night, cloudless at times and dew. Maximum wind velocity 27 m.p.h. from N.N.E. at 1317.

30. N'ly airs to calm early, fine and cloudy. Rainbow 0845. Gentle S.S.E. to E.S.E. breeze 0950, increasing force 3/5 1200. Light showers 1955 to 2010. Variable sky at night.

31. Cloudy to overcast early, showers 0130 to 0200, and gentle to moderate S.E. to E.S.E. breeze. Rainbow 0930. Light shower 0910 (trace). Thin intermittent drizzle 1850 to 1905. Moderate intermittent rain 2150 to 2340. Wind backed light N'ly 2045, backing N.W. variable and squally, force 2/4 2200.

ADDITIONAL NOTES.

The month was for the most part, cloudy and cool, the mean temperature being 0·7° below normal.

Light to moderate intermittent rains occurred on 4th, 12th to 17th, and 24th to 31st.

Rainfall was deficient by 0·82" and mean presure at 8 a.m. 0·017" above the average.

G. B. NASMYTH,
Harbour Master.

Suva, 2nd August, 1940.

Meteorological Observations

TAKEN AT SUVA, FIJI,

DURING AUGUST, 1940.

Latitude, 18° 8′ South. Longitude, 178° 26′ East.

HOURS OF OBSERVATION.

(i) 8 a.m. or 2000 G.M.T. (ii) 2 p.m. or 0200 G.M.T.

Local Standard Time being 12 hours fast of Greenwich Mean Time.

Height of Cistern of Barometer above Mean Sea Level, 12 feet; Site of Rain gauge, 8 feet; Diameter of Rain-gauge, 8 inches. Height of other Instruments above ground:—Rim of Rain-gauge, 12 inches; Thermometers, 4 feet 6 inches; Sunshine Recorder, 3 feet 3 inches; Vane of Dine's Pressure Tube Anemometer, 48 feet 6 inches; Robinson Cup Anemometer (run of the wind pattern), 41 feet 6 inches

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Maximum Thermometer set at 8 h. Read at 8 h.

Minimum Thermometer set at 8 h. Read at 8 h.

Grass Min. Thermometer set at 16 h. Read at 8 h.

AUGUST.

Day.	Attached thermometer and barometer as read in inches.				Air Pressure at Mean Sea Level in the Units of Measurement.		Temperature (degrees F.)										Humidity.						Wind Direction and Force (Beaufort Scale).			
							In Screen.						In Open.		In Ground		Dew Point.		Vapour Pressure.		Percentage.					
							Dry.	Wet.	Dry.	Wet.	Maximum.	Minimum.	Grass Min. Eve to Morn.	Max. in Sun. Black Bulb in vacuo.	1 foot.	4 feet.										
	I		II		I	II	I		II						I		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)	(19)	(20)	(21)	(22)	(23)	24	(25)	26
	°	"	°	"	"	"	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.			Dir.	F	Dir.	F
1	73	30·168	76	30·096	29·997	29·917	69·6	67·8	76·2	69·0	77	68	68	126	75·6	75·6	67	65	22·5	21·1	91	68	NXE	1	SEXE	2
2	74	30·150	77	30·088	29·976	29·906	70·2	67·4	78·5	70·1	80	68	67	114	75·3	75·5	65	65	21·3	20·8	86	64	N.	1	E.S.E.	3
3	75	30·182	74	30·142	30·005	29·968	71·0	68·0	72·4	68·2	76	68	67	86	75·4	75·5	66	66	22·0	21·6	85	79	S.S.E.	1	S.E.	2
4	73	30·206	75	30·172	30·035	29·995	71·4	65·0	75·0	65·4	77	67	65	105	75·0	75·7	60	59	17·8	17·2	70	57	EXS	2	E.	3
5	72	30·188	73	30·150	30·020	29·980	68·8	67·0	72·0	67·0	74	66	60	97	74·5	75·3	66	64	21·7	20·4	91	76	EXN	3	NEXN	3
6	73	30·212	76	30·178	30·041	29·998	72·1	68·1	78·4	68·8	79	68	66	137	74·2	75·2	66	63	21·6	19·6	80	59	E.N.E.	3	EXS	4
7	74	30·218	78	30·168	30·043	29·983	71·0	66·0	80·6	70·8	81	62	56	142	74·4	75·4	63	66	19·6	21·5	75	60	N.N.E.	1	E.N.E.	4
8	75	30·210	77	30·150	30·032	29·968	74·8	67·0	78·2	71·0	79	67	63	135	74·6	75·4	62	67	19·0	22·8	65	69	EXN	3	E.S.E.	4
9	74	30·166	75	30·098	29·992	29·921	69·1	67·7	71·9	68·9	75	67	67	104	75·0	75·6	67	67	22·3	22·9	93	85	EXE	2	E.N.E.	2
10	71	30·108	75	30·052	29·943	29·875	68·0	66·6	77·4	66·2	79	64	62	118	75·0	75·5	66	59	21·5	16·9	93	53	N.	1	EXN	2
11	72	30·095	75	30·040	29·927	29·863	71·2	68·8	76·8	71·4	79	67	66	106	75·0	75·3	67	68	22·7	23·9	88	76	N.	1	EXN	2
12	74	30·084	75	30·018	29·910	29·841	69·0	68·4	72·0	70·0	73	67	68	97	75·0	75·5	68	69	23·6	24·2	97	90	Calm	0	N.E.	3
13	73	30·110	73	30·076	29·940	29·906	69·8	68·4	73·0	65·6	74	67	68	121	74·4	75·2	68	61	23·1	18·1	93	65	S.W.	4	S.S.W.	4
14	70	30·140	74	30·096	29·978	29·922	68·1	63·1	75·0	65·2	76	64	57	122	74·0	75·1	60	58	17·4	16·6	75	56	N.	1	SXE	2
15	70	30·160	75	30·101	29·998	29·924	68·9	63·1	76·2	64·6	77	63	57	132	74·2	75·2	59	57	17·0	15·6	71	51	N.	1	EXN	3
16	71	30·156	75	30·116	29·991	29·939	70·0	66·1	75·1	67·1	78	66	61	89	74·6	75·2	63	62	20·0	19·0	81	64	N.	1	EXS	2
17	73	30·166	76	30·142	29·996	29·963	71·4	67·6	76·7	68·6	79	68	64	101	74·8	75·4	65	64	20·8	20·7	81	64	NXE	2	S.E.	4
18	71	30·152	76	30·110	29·987	29·931	69·7	66·6	78·0	68·3	80	66	61	132	75·0	75·6	65	63	21·3	19·6	84	59	N.	1	E.S.E.	3
19	72	30·140	77	30·096	29·972	29·914	70·0	68·0	79·0	70·2	80	67	63	139	75·2	75·3	67	65	22·5	21·1	90	62	N.	1	E.S.E.	3
20	75	30·116	76	30·140	29·989	29·961	73·0	66·0	75·9	68·5	78	69	62	112	75·2	75·4	62	64	18·7	20·5	67	67	SEXS	2	E.S.E.	3
21	74	30·236	73	30·200	30·061	30·029	69·0	63·6	72·4	65·4	73	66	64	97	74·9	75·5	60	61	17·6	18·0	73	67	S.E.	4	E.S.E.	3
22	71	30·216	75	30·150	30·050	29·973	70·0	61·3	76·4	64·2	78	66	61	135	74·2	75·4	55	55	14·9	15·0	59	48	EXS	4	E.S.E.	4
23	72	30·176	76	30·116	30·008	29·937	70·6	61·0	76·6	65·2	78	65	60	138	73·4	75·4	54	58	14·4	16·3	55	51	E.S.E.	4	E.	4
24	72	30·160	76	30·133	29·992	29·954	69·9	65·6	77·4	67·0	79	68	64	134	73·5	75·4	63	60	19·5	17·5	79	56	EXN	4	E.	4
25	74	30·180	76	30·152	30·005	29·973	72·8	68·8	77·7	70·1	79	67	60	120	73·6	75·2	67	66	22·4	22·1	80	67	NEXN	1	EXS	5
26	75	30·152	76	30·150	29·975	29·971	73·8	69·2	74·0	71·8	78	71	66	102	74·0	75·0	67	71	22·6	25·9	78	89	NEXE	2	E.N.E.	2
27	75	30·166	76	30·110	29·989	29·931	73·0	71·6	76·2	73·0	77	70	67	91	74·2	75·0	71	72	25·7	26·4	93	85	N.E.	2	E.	3
28	75	30·164	78	30·110	29·987	29·925	74·6	72·1	78·7	73·0	81	72	69	121	74·8	75·0	71	71	26·2	25·7	88	75	N.E.	2	EXN	4
29	75	30·174	79	30·110	29·997	29·922	72·8	68·4	80·4	71·0	81	68	62	140	75·0	75·0	66	65	21·8	21·3	78	61	NEXN	1	EXS	4
30	75	30·116	79	30·112	29·989	29·924	74·4	69·0	79·4	70·8	82	66	60	125	74·8	75·0	65	66	21·4	21·7	75	64	NEXN	1	EXN	4
31	76	30·138	78	30·102	29·959	29·917	70·8	66·9	80·4	71·0	81	66	57	139	74·8	75·4	65	65	20·8	21·3	81	61	N.	1	E.S.E.	4
Tls.	2269	935·055	2350	933·674	929·784	928·131	2198·8	2074·2	2367·9	2127·4	2418	2074	1958	3657	2313·6	2335·2	1996	1982	643·7	635·3	2495	2048	...	..	...	..
Mns	73·2	30·163	75·8	30·119	29·993	29·940	70·9	66·9	76·4	68·6	78·0	66·9	63·2	118·6	74·6	75·3	64·4	63·9	20·8	20·5	80·5	66·1	...	..	...	..

Temperature—
Daily Range: (Mean Max.—Mean Min.)—11·1 .
Greatest Range—19 on 7th.
Least Range—6 on 12th.
Mid Temperature: ½ (Max. + Min.)—72·5 .
Highest Maximum—82 on 30th.
Lowest Minimum—62 on 7th.
Lowest Maximum—73 on 12th and 21st.
Highest Minimum—72 on 28th.
Lowest Grass minimum—56 on 7th.

Humidity—
Greatest Humidity—97 per cent. on 12th at 8 a.m.
Least Humidity—48 per cent. on 22nd at 2 p.m.

Air Pressure -
Highest Value at M.S.L.—30·061″ on 21st at 8 a.m.
Lowest Value at M.S.L.—29·841″ on 12th at 2 p.m.

Prevailing Direction, E.; 8h., N.; 14h., E.

No. of days of—
Rain—19.
Hail—0.
Thunderstorms—0.
Fog—0.
Gales (force 8 or more)—0.

Rainfall—
Total—4·78″ or 121·41 mm.
Average for 56 years—8·04″.
Difference form normal—— —3·26″.
Greatest fall in 24 hours—1·27″ or 32·26 mm on 12th.
Total since 1st January—63·69″.

VISIBILITY SUMMARY—No. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8 a.m.	0	0	0	0	0	0	2	1	0	2	4	7	3	12
2 p.m.	0	0	0	0	0	0	1	0	1	1	6	3	2	17

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.

AUGUST.

Wind. Miles run for previous 24 hours.	Wind. Mean velocity.	Weather for 24 hours ending midnight. (Beaufort Letters). Before Observation.	At time of Observation.	Between Observation hours.	At time of Observation.	After Observation.	Visibility.		Cloud. Amount (0–10).		Cloud. Form.		Cloud. Direction whence coming.		Amount of Rain. 6 hours during the day measured at 14h.	Amount of Rain. 18 hours measured next morning at 8h.	State of ground.		Sunshine (hours and tenths).	Day.
		I	I	I and II	II	II	I	II	I	II	I	II	I	II			I	II		
(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	44	45	(46)	
158·4	6·6	op	o	op,c,v	cv	cv,o	K	M	9	8	Cu/Sc/St	Sc	E.	W.N.W.	Trace	..	1	1	0·8	1
146·4	6·1	ov	ov	o,bcv,c	cv	cv,pbc,b,oid	M	M	9	8	Sc	Sc/Cu	—	W.N.W.	..	0·58	0	0	4·6	2
86·4	3·6	oir	ojp	oid,c,oir	oir	oird	J	J	9	10	Cu/Ns/St	Ns	S.	S.E.	0·01	0·20	1	1	0·8	3
120·0	5·0	o,c	cv	cv,o	cvy	cv,bc,b	M	M	8	8	Sc/Cu	Sc/Cu	E.	E.	..	0·08	1	0	2·2	4
204·8	8·5	c,oir	oir	oid	oid	oidr	F	K	10	10	Ns/St	Sc/Cu/St	E.	E.	0·01	0·05	1	1	0·5	5
103·2	4·3	o,cp	c	c,bc	bcy	bc,bw	K	L	7	5	Ci/Ac/Sc/Cu	Ci/Cu	?/W/ENE	W/ESE	..	Trace	1	0	8·8	6
163·2	6·8	b	b	b,bc	bc	bc,b	M	L	1	4	Cu	Cu	?	F.	..	..	0	0	10·6	7
235·2	9·8	bw,bc	bc	bc	bcjp	orr	M	K	4	4	Cu	Cu	E.	—	..	0·45	0	0	9·7	8
177·6	7·4	or,id	oid	oid	oid	oid,c	J	H	9	10	Sc/St	Ns/St	N.N.E.	E.	0·01	..	1	1	0·3	9
105·6	4·4	c,o	o	o,c,bc	bcy	c,o	M	M	9	6	Sc/Cu	Sc/Cu	W.N.W.	W.N.W.	..	..	1	0	2·0	10
84·0	3·5	o	o	od	ojp	oid,ir	M	I	9	10	Sc	Sc	E.	NXE	Trace	0·73	0	0	0·0	11
144·0	6·0	oir,rr	orr	orr	o	or	F	M	10	10	Ns/St	As/Ns/St	N.E.	?/NE	0·73	0·54	2	2	0·2	12
170·4	7·1	or,d	od	op,c	c	bc,c,o	G	M	10	7	Ns/St	Ac/Sc	S.W.	W/S	0·01	Trace	2	1	3·0	13
153·6	6·4	bc,c	c	bc,c	cy	c,o	M	M	7	8	Ac/Sc/Cu	Sc/Cu	NW/?	W.N.W.	..	..	1	0	5·7	14
127·2	5·3	bc,bw	b	b,bc,c	cy	c,o	L	M	3	7	Ci/Sc/Cu	Sc/Cu	WNW/ESE	N.N.W.	..	..	0	0	7·6	15
129·6	5·4	o,bc,b	bc	bc,c,o	o	o	K	M	4	9	Sc/Cu	As/Sc/Cu	N.W.	?/E	..	..	0	0	1·4	16
103·2	4·3	o,c,bc,b	bc	bc,c	c	bc,c,o	K	M	5	7	Sc/Cu	Sc/Cu	—	S.E.	..	Trace	0	0	5·6	17
117·6	4·9	cp,bc,b	bc	bc	bc	c,oir	M	M	5	4	Sc/Cu	Ac/Sc/Cu	S.E.	WNW/SE	..	0·11	0	0	7·5	18
146·4	6·1	o,c	c	op,c,bc	bcv	bcv,c,o	M	M	8	4	Ci/Sc/Cu/Cb	Sc/Cu	W/E	E.S.E.	Trace	0·02	1	0	6·4	19
187·2	7·8	op,bc	bc	bc,c,o	o	oid	L	M	4	9	Ci/Sc/Cu	Sc/Cu	?/SSE	W/SE	..	0·19	0	0	4·4	20
237·6	9·9	oidr	oid	oidr	ojp	oir	I	J	10	10	St	Sc/St	S.E.	E.S.E.	0·01	0·03	0	1	0·0	21
237·6	9·9	o	oy	o,c,bc	bcy	bc,c,o,b	M	M	9	4	Sc/Cu	Cu	E.	E.S.E.	..	0·03	0	0	5·4	22
304·8	12·7	bc,c	cy	bc	cy	cp,b,bc	M	M	8	7	Sc/Cu	Sc/Cu	E.S.E.	E.	..	0·01	0	0	6·7	23
244·8	10·2	c,o	cjp	cp,bc	bcy	bc,b	K	K	7	6	Sc/Cu	Ac/Cu	S.E.	WXN/E	0·01	0·09	0	0	9·3	24
124·8	5·2	bc,cp	cjp	cp,z	czjp	op,c,bc	K	J	8	8	Cs/Cu	Ci/Ac/Cu	WNW/E	W/W/E	Trace	Trace	1	0	4·5	25
165·6	6·9	bc,cz	cz	czorr	orr	orr,d	J	F	7	10	Ci/Ac/Sc/Cu	St	WNW/NE	E.N.E.	0·05	0·15	0	1	2·2	26
283·2	11·8	oidr	o	oird	oid	oid,ir,r	I	J	9	10	Ac/As/Ns/St	As/Ns	?/ENE	?/ENE	0·20	0·32	1	1	0·0	27
136·8	5·7	oid,c	cjp	c,op,bc	cjp	c,bc,b,o,b	J	J	7	7	Sc/Cu/Cb	Ac/Cu/Cb	E.N.E.	WNW/E	0·16	..	1	1	5·4	28
151·2	6·3	b,bc,c	c	c,bc	bc	bc,bw	L	M	7	4	Sc/Cu	Ci/Cu	E.N.E.	W/E	..	..	1	0	10·1	29
91·2	3·8	b	b	bc,bz	bz	bcz,b	K	J	3	4	Cu	Cu	E.N.E.	E.N.E.	..	..	0	0	10·3	30
206·4	8·6	b,bc,c	c	c,o,bc,b	bc	b	M	M	7	4	Sc/Cu	Cu	E.N.E.	E.N.E.	..	Trace	0	0	10·1	31
5048·0	210·3	....	...	....	...	....	..	..	..	..	.....	.....	....	....	..	..	..	..	146·1	Totals
162·8	6·8	....	...	....	...	....	..	..	..	..	.....	.....	....	....	..	..	..	..	4·7	Means

CLOUD AMOUNT.

Number of cases of total cloud amount.

Hour.	0	1/3	4/6	7/9	10
8 a.m.	0	3	5	19	4
2 p.m.	0	0	11	12	8

WIND SUMMARY—No. OF OBSERVATIONS OF.

	Force 8 or more.	4/7.	1/3.	Calms.	N.N.W.	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.
8 a.m.	0	5	25	1	0	12	1	6	1	5	1	2	1	0	0	1	0	0	0	0
2 p.m.	0	13	18	0	0	0	0	2	3	13	8	3	0	1	1	0	0	0	0	0
Total	0	18	43	1	0	12	1	8	4	18	9	5	1	1	1	1	0	0	0	0

Wind:—Total miles, 5048·0; mean velocity, 6·8 m.p.h.; maximum velocity, 34 m.p.h. from E.S.E. at 1500 on 22nd.

WEATHER DIARY, AUGUST, 1940.

Date.

1. Light to gentle E.S.E. breeze 0015, falling off after 0400 backing N'ly overcast and showers 0015 to 0030, 0200 to 0215 and 0630 to 0740. Trace at 0840. Cloudy to overcast all day and night with Sc. predominating. Unusual visibility during the afternoon. Light E.S.E. breeze 0942, falling off 1600 backing N'ly 1945.

2. N'ly airs to calm early and overcast with Sc. predominating. Variable sky after 0830, clearing 1650, becoming overcast again about 1820. Unusual visibility during the day. Light N.N.E. breeze 0920 veering E.S.E. 1140, veering S'ly after 1500, increasing force 3 2000, falling off 2200, backing N'ly. Trace rain 1430. Intermittent drizzle 2145, increasing to moderate rain 2200 to 2330. Pretty sunset.

3. Variable and squally winds force 1/4 early. Wind boxed compass twice 0050 to 0620. Overcast with light intermittent rain and drizzle to 0845 and from 1330 to 2100. Variable winds force 2/4 (E.N.E. to S.) during the day, becoming light N.E. to N.W. 1952.

4. Fine and cloudy to overcast all day, unusual visibility, and light to moderate E.S.E. to E'ly breeze 1500, sky clearing 1800.

5. Overcast all day except from 0900 to 0930. Intermittent rain 0142 to 0805 then occasional thin drizzle to 1845 with moderate rain 1515 to 1530. Gentle E.N.E. breeze backing N'ly 0200 increasing force 2/3 0500 and varying between E.S.E. and N.N.E., falling off 1630.

6. N.E'ly winds force 1/2 early, and cloudy. Passing shower 0620 to 0625. Half cloudy during the day, becoming clear to cloudless at night and dew. Moderate E'ly breeze after 1000, falling to force 2/3 1700, backing N'ly 2320.

7. Fine and clear to cloudless early, and at night, half cloudy during the day. N.N.E. airs to calm at first, veering E. force 3/4 0838.

8. Moderate E. breeze early with fresh gusts, dew about 0500. Fine and cloudy. Wind backed N. force 2 0620, increasing force 0735, veering E. force 4, falling off 1720, becoming variable. Rainbow 1630. Overcast with light rain from 1710.

9. Light rain to 0300. Very slight intermittent drizzle 0520 to 0630. Overcast all day, variable sky after 1630. Light W.N.W. to N. winds 0400 veering N.N.E. 0800, and to E.S.E. variable 0940, falling off 1700. S.E'ly airs 1855 backing N'ly 1935. Lunar Corona 1900.

10. N'ly airs to calm early, fine but overcast. Light E'ly breeze 1020, falling off 1600 backing N'ly. Half cloudy 1230 to 1500, then overcast.

11. N'ly airs to calm early and overcast all day with Sc. predominating. Wind veered N.E., veering E. force 2/3 1310 increasing force 4/5 from E.S.E. 2040, falling off 2300. Slight drizzle about 0930, 1130 and from 1845, increasing to intermittent rain 2115.

12. Overcast all day with N.E'ly winds force 1/3 but with light S.E'ly 0000 to 0400. Moderate rain to 1300, intermittent rain and drizzle from 1450 throughout the night.

13. Overcast with intermittent drizzle and rain to 0810 then occasional light passing showers to 1340. Rainbow 0850. Gentle to fresh S'ly breeze 0438 varying to S. to S.W. 0750, falling off 1600, backing S.S.E. becoming variable 2030. Fine and half cloudy after 1430, becoming overcast 2345.

14. N'ly airs to calm early, and half cloudy to cloudy. Light to gentle S'ly breeze 0935 backing S.S.E. to S.E. 1348, falling off 1600. N.N.E. airs 2010. Cloudy to overcast afternoon and night.

15. N'ly winds force 1/2 early, fine, half cloudy to clear and dew, winds becoming variable 0915. Light to gentle E'ly breeze 1025, falling off 1500, backing N'ly. Cloudy to overcast afternoon and night.

16. Fine and half cloudy to clear sky early, and N'ly winds force 1/2 becoming cloudy to overcast about 1030. Calm 0820. Light to gentle variable E'ly breeze 1010, backing N.N.E. 1402, falling off. Light breeze 2152.

17. Fine and half cloudy to clear and light N'ly winds to calm. Half cloudy during the day, becoming overcast at night. Wind backed light S.W'ly 0905, backing S.E'ly force 3/4 1145, gradually falling off 1500, backing N.N.E. 2000.

Date.

18. Cloudy early and light shower (trace) 0229 then fine and half cloudy to clear becoming overcast at night. N'ly airs to calm at first, gentle to moderate E.S.E. to E.N.E. breeze 0832, falling off 1500, backing N.N.E. after 2000. Light intermittent rain 1955 to 2340.

19. Fine and cloudy early and N'ly winds force 1/2, rainbow 0750. Light shower (trace) 0910 then half cloudy and unusual visibility becoming overcast about 1800. Wind veered E.S.E. force 3 after 1020, gradually falling off 1600 increasing force 2/3 2115.

20. Light to moderate S.E'ly breeze all day. Overcast early and light showers 0155 to 0210, then half cloudy and fine, becoming overcast about 1200. Slight intermittent drizzle 2055 to 2315. Maximum wind velocity 25 m.p.h. from S.E. at 1222.

21. Overcast all day. Gentle to fresh S.E. to E.S.E. winds and thin intermittent drizzle and rain to 0245 to 1825. Maximum wind velocity 26 m.p.h. from S.E. at 1612.

22. Fine but overcast early, and gentle to fresh S.E. to E.S.E. breeze all day with some strong gusts. Half cloudy 1000, sky becoming variable 1430 clearing about 2045. Maximum wind velocity 34 m.p.h. from E.S.E. at 1500.

23. Gentle to fresh E.S.E. to E. winds all day with some strong gusts falling off and backing N'ly 2032 increasing force 3/4 from E. 2140. Variable sky all day. Heavy shower at 0100, light showers 1705. Maximum wind velocity 29 m.p.h. from E.xS. at 1922.

24. Cloudy early and gentle to moderate E'ly breeze, with fresh gusts, falling off after 1600, backing N.E'ly 1930. Light showers 0855 (trace) and 0900 to 0912 then variable sky. Clear sky at night.

25. Light variable N.E'ly winds early with moderate E.S.E. to N.E. gusts 0100 to 0300. Moderate to fresh N.E'ly breeze all day from 0815 and cloudy with light haze, becoming half cloudy about 2000. Showers 0200 to 0400 and at 0905 (trace) and 1530 (trace). Rainbow 0805.

26. Fine and cloudy early and gentle to moderate N.E'ly breeze falling to force 2 0310 sky becoming overcast with low clouds 1030 and showers (trace). Light rain 1300 to 1415, and 1850 to 1920 then drizzle to 2025. Light to moderate E.N.E. to E'ly breeze 0815, with occasional fresh gusts falling off 2000. Maximum wind velocity 26 m.p.h. from E. at 1748.

27. Overcast all day. N.E'ly winds force 1/2 early. Intermittent rain and drizzle 0230 to 0730. Moderate rain 0900 to 0915 and 1050 to 1130, then thin intermittent drizzle to 1410. Light to moderate rain 1520 to 1600 and 1750 to 2325. Gentle to moderate E.S.E. to E.N.E. breeze 0920, falling off 1435, backing N.E'ly 1715, veering E'ly 2100 increasing force 3.

28. Light to gentle E. to N.E. winds early, overcast and intermittent drizzle to 0250, then cloudy and fine but with showers in sight. Passing showers 1000 to 1145, sky clearing 1630, becoming overcast 2015, clearing again 2115. Gentle to moderate E'ly breeze 0940 with some fresh gusts falling off 1719, backing N.N.E. Zodiacal light 1910. Maximum wind velocity 26 m.p.h. from E. at 1220.

29. Fine, part cloudy early and N.N.E. airs to calm, becoming cloudy 0750. Half cloudy during the day, clear sky at night and dew. Gentle to moderate E.N.E. to E. breeze 0900, falling off after 1600 backing N'ly.

30. N'ly airs to calm early, fine and clear to half cloudy all day and slight haze. Wind gradually increased force 3/4 0830 veering E.xN. backing N.E. 1625, falling off.

31. Fine and mainly half cloudy all day becoming cloudy 0740 to about 0950. N.E. to N. airs to calm. Gentle to moderate E.S.E. to E.N.E. breeze 0940, backing N.N.E. 1500, falling off 1730. Clear to cloudless sky at night.

ADDITIONAL NOTES.

A fine, cloudy and cool month, rainfall being 68 per cent. of the normal and mean temperature 1·20 below the average.
Mean pressure at 8 a.m.—normal.

G. B. NASMYTH,
Harbour Master.

Suva, 3rd September, 1940.

Meteorological Observations

TAKEN AT SUVA, FIJI,

DURING SEPTEMBER, 1940.

Latitude, 18° 8′ South. Longitude, 178° 26′ East.

HOURS OF OBSERVATION.

(i) 8 a.m. or 2000 G.M.T. (ii) 2 p.m. or 0200 G.M.T.

Local Standard Time being 12 hours fast of Greenwich Mean Time.

Height of Cistern of Barometer above Mean Sea Level, 12 feet; Site of Rain gauge, 8 feet; Diameter of Rain-gauge, 8 inches. Height of other Instruments above ground:—Rim of Rain-gauge, 12 inches; Thermometers, 4 feet 6 inches; Sunshine Recorder, 3 feet 3 inches; Vane of Dine's Pressure Tube Anemometer, 48 feet 6 inches; Robinson Cup Anemometer (run of the wind pattern), 41 feet 6 inches

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Maximum Thermometer set at 8 h. Read at 8 h.

Minimum Thermometer set at 8 h. Read at 8 h.

Grass Min. Thermometer set at 16 h. Read at 8 h.

SEPTEMBER.

Day.	Attached thermometer and barometer as read in inches. I		Attached thermometer and barometer as read in inches. II		Air Pressure at Mean Sea Level in the Units of Measurement. I		Temperature (degrees F.) In Screen. Dry. I	Wet. I	Dry. II	Wet. II	In Open. Maximum.	Minimum.	Grass Min. Eye to Morn.	Max. in Sun. Black Bulb in vacuo.	In Ground. 1 foot. I	4 feet. I	Humidity. Dew Point. I	Dew Point. II	Vapour Pressure. I	Vapour Pressure. II	Percentage. I	Percentage. II	Wind Direction and Force (Beaufort Scale). I		Wind Direction and Force (Beaufort Scale). II	
							Tenths.				Whole Degrees.				Tenths.											
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	24	(25)	26
	°	"	°	"	"	"	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.			Dir.	F	Dir.	F
1	74	30·098	78	30·056	29·924	29·871	73·4	71·0	81·8	73·4	83	67	61	121	75·0	75·7	69	69	24·4	24·4	88	66	Calm	0	EXS	4
2	77	30·083	82	30·036	29·901	29·839	77·4	73·6	84·4	75·4	87	72	66	122	75·6	76·0	71	71	26·0	25·7	83	64	N.N.E.	2	NEXE	3
3	78	30·142	79	30·100	29·957	29·912	74·8	72·7	80·0	74·1	81	72	71	138	76·8	77·8	72	71	26·8	26·0	89	74	W.	1	SWXS	2
4	78	30·196	80	30·162	30·010	29·972	77·4	73·2	82·0	75·4	83	72	69	144	77·1	77·0	71	73	26·0	27·3	81	73	E.S.E.	3	S.E.	4
5	77	30·152	79	30·104	29·970	29·916	73·8	72·6	79·6	74·6	81	71	70	125	77·2	77·0	72	73	27·3	27·4	94	79	E.S.E.	3	EXS	4
6	78	30·090	81	30·044	29·905	29·851	77·8	73·0	83·7	74·9	84	70	62	144	77·2	77·1	71	71	25·5	25·7	79	65	NXE	2	SEXS	1
7	76	30·108	79	30·054	29·929	29·866	74·2	73·8	77·0	73·1	81	71	71	101	77·8	77·7	73	71	28·0	26·0	98	83	N.	1	S.E.	3
8	76	30·060	77	29·988	29·881	29·806	73·0	72·4	74·2	73·6	75	71	70	86	77·1	77·2	71	73	26·4	28·0	96	97	N.	1	S.E.	3
9	75	30·012	74	29·994	29·835	29·820	70·2	69·7	73·0	69·7	75	69	69	105	76·8	77·0	69	68	24·4	23·1	97	84	SXW	6	S.S.E.	4
10	74	30·154	73	30·116	29·980	29·946	72·6	69·0	71·2	67·2	74	69	68	86	76·0	76·5	68	65	23·1	20·8	82	80	S.E.	3	SEXE	3
11	73	30·212	74	30·160	30·041	29·986	72·0	67·0	72·0	67·9	74	68	66	85	75·2	76·6	64	66	20·4	21·6	76	80	EXS	2	E.	3
12	73	30·244	72	30·227	30·073	30·058	71·6	66·0	70·4	66·2	72	68	67	82	75·0	76·0	63	63	19·8	20·0	73	79	E.S.E.	3	SEXE	3
13	71	30·232	72	30·182	30·066	30·013	68·6	65·2	71·2	67·6	72	66	65	88	74·6	75·8	63	65	19·9	21·4	82	82	E.N.E.	2	E.	2
14	72	30·240	74	30·186	30·071	30·011	71·9	64·9	75·2	65·8	77	68	64	119	74·0	75·4	61	59	18·0	17·2	67	59	E.S.E.	3	E.S.E.	4
15	73	30·223	75	30·167	30·052	29·990	72·6	61·6	74·8	64·4	77	66	58	115	74·0	75·2	54	57	14·1	16·0	51	54	E.	3	E.	3
16	72	30·240	77	30·140	30·035	29·958	69·0	64·5	79·0	70·4	80	62	53	133	73·8	75·3	62	66	18·7	21·7	78	63	N.	1	EXN	4
17	74	30·164	76	30·118	29·990	29·939	72·2	70·0	75·4	71·0	78	67	63	83	74·8	75·4	69	68	24·2	23·5	89	80	NXW	1	E.S.E.	3
18	75	30·186	76	30·152	30·008	29·973	74·4	69·0	75·6	69·4	77	71	67	93	74·8	75·2	65	67	21·4	22·4	75	72	E.S.E.	2	E.S.E.	4
19	74	30·220	77	30·119	30·045	30·015	74·0	69·0	76·4	70·0	80	68	64	100	74·4	75·4	66	66	22·0	21·7	77	71	E.S.E.	3	SEXE	4
20	74	30·272	76	30·226	30·097	30·045	72·0	66·1	75·2	67·0	77	70	69	97	74·4	75·3	62	62	19·2	19·0	72	64	S.S.E.	3	SEXE	3
21	73	30·256	74	30·200	30·085	30·025	69·9	67·9	70·0	68·0	74	67	65	82	74·0	75·4	67	67	22·5	22·5	90	90	E.	2	EXN	4
22	72	30·242	75	30·194	30·073	30·016	72·2	63·7	76·1	66·8	77	69	65	116	73·5	75·4	58	61	16·2	18·0	61	60	E.S.E.	3	SEXE	4
23	73	30·202	77	30·138	30·031	29·956	73·8	64·4	77·0	66·6	80	69	62	119	73·2	75·6	58	60	16·5	17·5	58	55	EXS	4	EXN	4
24	75	30·186	75	30·122	30·008	29·945	75·7	68·4	74·1	68·7	79	67	62	97	73·0	75·4	64	65	20·5	21·4	68	75	N.E.	2	EXN	3
25	74	30·158	75	30·096	29·984	29·919	73·0	69·3	75·2	69·0	76	68	63	95	73·8	75·1	68	66	23·1	21·5	82	72	N.E.	2	E.N.E.	4
26	74	30·144	78	30·064	29·970	29·879	75·8	71·5	80·0	72·0	81	69	66	144	73·9	75·1	69	68	24·4	23·3	81	66	N.E.	1	EXN	4
27	76	30·134	79	30·044	29·955	29·856	77·0	70·2	81·0	72·2	83	69	62	129	74·5	75·1	66	67	21·9	22·8	70	63	E.N.E.	2	EXS	4
28	76	30·100	78	30·036	29·921	29·851	76·0	71·2	76·0	72·4	80	71	67	104	75·0	75·5	68	71	23·7	25·7	78	83	N.E.	1	EXN	3
29	73	30·082	76	30·022	29·912	29·843	70·0	68·4	78·2	71·6	80	69	68	119	75·0	75·3	68	68	23·1	23·5	92	71	NEXE	3	E.N.E.	3
30	75	30·090	77	30·019	29·913	29·837	71·8	70·4	76·8	74·0	78	69	69	120	75·0	75·8	70	73	24·8	27·8	93	87	N.E.	3	E.N.E.	3
Tls.	2235	904·922	2295	903·266	899·622	897·914	2198·1	2069·7	2296·5	2112·4	2356	2065	1962	3292	2252·5	2278·3	1992	2010	672·3	682·4	2400	2191	...	..	...	..
Mns	74·5	30·164	76·5	30·109	29·987	29·930	73·3	69·0	76·6	70·4	75·8	68·8	65·4	109·7	75·1	75·9	66·4	67·0	22·4	22·7	80·0	73·0	...	..	...	..

Temperature—
Daily Range: (Mean Max.—Mean Min.)—9·7 .
Greatest Range—18 on 16th.
Least Range—4 on 8th and 12th.
Mid Temperature: ½ (Max. + Min.)—73·7 .
Highest Maximum—87 on 2nd.
Lowest Minimum—62 on 16th.
Lowest Maximum—72 on 12th and 13th.
Highest Minimum—72 on 2nd, 3rd and 4th.
Lowest Grass Minimum—53 on 16th.

Humidity—
Greatest Humidity—98 per cent. on 7th at 8 a.m.
Least Humidity—51 per cent. on 15th at 8 a.m.

Air Pressure—
Highest Value at M.S.L.—30·097″ on 20th at 8 a.m.
Lowest Value at M.S.L.—29·806″ on 8th at 2 p.m.

Prevailing Direction, E.; 8h., E.S.E.; 14h., E.

No. of days of—
Rain—25.
Hail—0.
Thunderstorms—0.
Fog—0.
Gales (force 8 or more)—0.

Rainfall—
Total—12·25″ or 311·15 mm.
Average foe 56 years—7·78″.
Difference from normal———4.47″.
Greatest fall in 24 hours—3·80″ or 96·52 mm on 8th.
Total since 1st January—75·94″.

VISIBILITY SUMMARY—No. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8 a.m.	0	0	0	0	0	0	1	1	0	3	3	10	8	4
2 p.m.	0	0	0	0	0	0	0	1	0	7	5	7	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—6¾ miles, K—12½ miles, L—18⅝ miles, M—31 miles.

SEPTEMBER

Wind. Miles run for previous 24 hours.	Wind. Mean velocity.	Weather for 24 hours ending midnight. (Beaufort Letters). Before Obser'tion.	At time of Obser'tion.	Between Obser'tion. hours.	At time of Obser'tion.	After Obser'tion.	Visibility.		Cloud. Amount (0–10).		Form.		Direction whence coming.		Amount of Rain. 6 hours during the day measured at 14h.	Amount of Rain. 18 hours measured next morning at 8h.	State of ground.		Sunshine (hours and tenths).	Day.
		I	I	I and II	II	II	I	II	I	II	I	II	I	II			I	II		
(27)	28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	44	45	(46)	
															"	"				
136·8	5·7	b,bcp	bc	c,bc	bc	bc,b,c	K	K	4	6	Ac/Sc/Cu	Cu	NE/NE	N.E.	..	0·01	0	0	9·0	1
115·2	4·8	c,op,bc	bc	bc,c	c	c,bc,opq	K	K	6	7	Sc/Cu	Ci/Sc/Cu	E.N.E.	NW/ENE	..	0·02	0	0	8·6	2
146·4	6·1	oid	o	o,c	c	c,b,bc,o	J	M	10	7	Sc/St	Sc/Cu	S.S.W.	WNW	..	0·01	0	0	1·5	3
160·8	6·7	op,bc	bc	bc,c	c	cp	L	K	5	7	Ac/Sc/Cu/Cb	Ci/Sc/Cu/Cb	ESE/ESE	ESE/ESE	..	0·85	0	0	8·8	4
206·4	8·6	orr	orr	orr,R	cjp	c,op,bc	P	J	10	8	Ns/St	Ci/Cu/Cb	E.S.E.	?/E	0·61	0·04	1	1	2·3	5
148·8	6·2	c,bc	c	c,bc	bc	oRr	K	M	7	4	Ac/Cu	Cu/Cb	WNW/NNE	NXE	..	0·46	1	0	6·8	6
108·0	4·5	oid	o	od	o	oidrR	L	M	10	9	Sc/Cb/St	Sc/Cb/St	N.	?	Trace	2·37	1	1	0·7	7
156·0	6·5	oRR	oRR	oRRD	ojp	odr,R	G	I	10	10	Sc/Cb/St	Sc/Cb/St	?	?	1·90	1·90	2	2	0·0	8
340·8	14·2	odrRq	orr	oidr	ojp	oid	I	J	10	9	Sc/Cb/St	Sc/Cu/St	S.	S.E.	0·10	0·03	2	2	0·0	9
165·6	6·9	o	ojp	oid	oid	oid	K	G	9	10	As/Cu/Cb/St	St	?/SE	S.E.	0·04	0·06	2	2	0·0	10
187·2	7·8	oid	ojp	odr	odd	oid	J	K	10	10	As/Cb/St	As/Cb/St	E.	?/E	0·10	0·04	2	1	0·0	11
249·6	10·4	od	ojp	oidr	oir	oidr	L	I	10	10	As/Sc/St	As/Cb/Ns	?/E	?/SE	0·04	0·15	1	1	0·0	12
65·8	2·7	orr	orr	orr	o	oidr,cp	I	L	10	10	As/St	As/Cb/Fs	?/E	?/E	0·18	0·06	1	1	0·0	13
184·8	7·7	op,c	c	bc,c	c	bc,b,c,o	M	L	8	7	Sc/Cu	Sc/Cu	E.S.E.	E.S.E.	..	..	1	1	4·4	14
180·0	7·5	c,bcv	bcv	bc,c	c	c,bc	M	L	4	7	Sc/Cu	Sc	E.	E.	..	..	1	0	4·5	15
136·8	5·7	c,bc	bc	bc,c	bc	c,op,bc	M	K	5	5	Ac/Sc/Cu	Ac/Cu	NW/E	NW/E	..	0·05	0	0	6·6	16
136·8	5·7	or,c	c	c,op	op	op,ird	L	I	7	9	Ac/Sc/Cu	Sc/Cb/Fs	?/ESE	E.S.E.	0·02	0·17	1	1	2·2	17
180·0	7·5	oid	o	oid	ojp	oid,P	K	I	9	10	Sc/Cb	Ac/Cu/Cb/Fs	E.S.E.	?/ESE	0·01	0·17	1	1	0·0	18
213·6	8·9	oPq,ir,c	c	c,o	ojp	oird	K	K	8	10	Ci/Ac/Sc/Cu/Cb	Ac/Cu/Cb	N/WNW/ESE	?/SE	..	0·11	1	0	1·2	19
242·1	10·1	o	o	o	o	oidr	L	L	10	10	As/Cu/Cb/Ns	As/Cu	?/SE	?/SE	..	0·44	1	0	0·2	20
177·6	7·4	oidr	oid	oidr	oid	oidr	K	L	10	9	As/Cb/Ns	As/Cu/Cb	?/E	?/ESE	0·10	0·03	1	1	0·3	21
285·6	11·9	o	o	o,c,bc	cy	c,bc,b,o	L	L	8	7	As/Cu/Cb	Cu/Cb/Ns	?/ESE	S.E.	..	..	1	0	1·4	22
237·6	9·9	o,c,bc	bcy	bc,b	bcy	co,oP	M	M	6	6	Ac/Sc/Cu	Ac/Cu	?/E	NW/E	..	0·17	0	0	7·5	23
189·6	7·9	op,c,bc	bc	oirR	oir	oir,c	K	I	5	9	Ac/Sc/Cu	Sc/Cb	?/NE	E.	0·38	Trace	1	1	2·3	24
153·6	6·4	c,oz	oz	opz	ojp	oir	K	J	9	10	Sc/Cu/Cb	As/Cu/Cb/Fs	E.N.E.	?/ENE	0·03	0·25	1	1	0·3	25
170·4	7·1	oir,c,bc	bc	bc,c	cz	cz,o,bc	L	J	6	7	Ac/Sc/Cu	Ac/Sc/Cb	?/NNE	WNW/ENE	..	..	1	0	5·4	26
136·8	5·7	c,bc	bc	bc,cz	cz	opz,bc	K	J	6	7	Ac/Cu	Ac/Sc/Cu	—/NE	W/ENE	..	Trace	0	0	6·8	27
151·2	6·3	o,cz	cz	oird	oid	oid,rrd	J	I	8	10	Sc/Cu	As/St	E.N.E.	?/ENE	0·04	0·86	0	0	0·4	28
187·2	7·8	orrd	o	oid	oz	czoidr	L	K	9	9	As/Fs	As/Cu	?/NE	?/NE	0·01	0·21	2	1	1·3	29
172·8	7·2	orid	oid	oidr	ojp	oidr	I	I	10	9	As/Ns/Fs	Cb/Fs	?/NE	E.N.E.	0·50	0·18	1	1	0·7	30
5323·9	221·8	....	...	....	...	....	..	..	239	248	.....	.....	....	....	3·61	8·64	..	..	83·2	Totals
177·5	7·4	....	...	....	...	....	..	..	8·0	8·3	.....	.....	....	....	..	..	..	..	2·8	Means

CLOUD AMOUNT.

Number of cases of total cloud amount.

Hour.	0	1/3	4/6	7/9	10
8 a.m.	0	0	9	10	11
2 p.m.	0	0	4	16	10

WIND SUMMARY—No. OF OBSERVATIONS OF.

	Force 8 or more.	4/7.	1/3.	Calms.	N.N.W.	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.
8 a.m.	0	2	27	1	0	5	1	6	2	4	7	1	1	1	0	0	0	1	0	0
2 p.m.	0	14	16	0	0	0	0	1	3	12	3	9	1	0	0	1	0	0	0	0
Total	0	16	43	1	0	5	1	7	5	16	10	10	2	1	0	1	0	1	0	0

Wind:—Total miles, 5323·9; mean velocity, 7·4 m.p.h.; maximum velocity, 32 m.p.h. from E.S.E. at 1710 on 21st.

WEATHER DIARY—SEPTEMBER, 1940.

Date.

1. Fine and half cloudy early, and N'ly airs to calm. Light shower (trace) 0608. Light N.N.E. 0820, veering E'ly 1000, increasing force 4 1200, falling off 1700, backing N.N.E. Variable sky during the day, mainly half cloudy, clear to cloudless evening, becoming cloudy about 2210.

2. N.N.E. airs to calm early, increasing force 2 0700. Light shower about 0600. Half cloudy to cloudy, and fine all day, becoming overcast 1930. Light shower 2045 (trace). Gentle N.E. breeze 1010, falling off 1620. Gentle W'ly sqaull 2045, to 2120, then light W.N.W. Solar halo 1400 to 1415.

3. Overcast early and light W.N.W. to W.S.W. winds to calm. Intermittent drizzle 0310 to 0500. Variable sky after 1000, becoming cloudy to overcast about 2330. Wind backed S.W. 0820, and to N.E. 0940, veering W.N.W. 1010. Backing S.W. 1140 force 2, gradually backing S.S.E. after 1500 and to E.S.E. 2240.

4. Gentle to moderate E.S.E. to S.E. breeze all day, cloudy to overcast early, light showers 0005 to 0015, then cloudy to half cloudy. Passing showers 1840 to 2325.

5. Overcast and light to heavy rain 0110 to about 1030, then variable sky. Light to gentle variable winds at first, gentle to moderate E.S.E. 0438, veering N.E. 2 0912, increasing force 3/5 from E'ly 1000, backing N.N.E. after 1500, gradually falling off. Showers at 1450 to 1510, and 1630 to 1700.

6. Fine and cloudy early with Ac. predominating, N.N.E. winds force 0/2, veering N'ly 1020, falling off, backing S.E'ly, force 2/3 1110 and to N.E. 1415. Overcast and heavy to light rain 1800 to 2010. Wind boxed compass 1545 to 1900, then gentle to light S.S.W. to W. breeze.

7. Light winds to calm, mainly S.E., early intermittent drizzle 0400, to 0710, and 1545 to 1715. Overcast all day. Light to gentle S.E. to E.S.E. breeze all day from 0820 increasing force 4 2320. Moderate to heavy rain from 2045.

8. Overcast all day and moderate to heavy rain with drizzle at times. Gentle to moderate E.S.E. to S.E. breeze falling off 0320 backing N.E'ly 0755, veering E'ly 3 0950, falling off 1650, backing N.E'ly. Variable sky at times after 1830. Lunar corona 1900 to 1930. Intermittent drizzle and rain again 2110.

9. Light N.E'ly winds at first, with moderate to fresh squall 0325 to 0410, then wind backed W'ly 0600, and to S.xW. increasing force 5/6, gradually backing S.E., moderating about 1000. Intermittent drizzle and rain all day, to about 1930, maximum velocity 31 m.p.h. from S.xW. at 0630.

10. Light to gentle S.S.E. to S.E. breeze early and overcast all day. Intermittent drizzle 1040 to about 2000. Moderate breeze 0825 falling off force 2/3, after 1200 backing E.S.E. 1820.

11. Light to moderate E.S.E. to E. breeze early and overcast all day. Intermittent drizzle 0020 to 0400 and very thin intermittent drizzle during the day with rain 1255 to 1310 and wind varying between E.S.E. and N.E. but mainly E'ly falling off 1918, becoming variable.

12. Overcast all day. Light variable winds early. Gentle to moderate E.S.E. to S.E. breeze 0240, backing N.E. after 1800, falling to N'ly airs 2000. Drizzle 0040 to 0300. Intermittent drizzle and light rain 0950 to 1930.

13. N. to N.E. airs to calm early and overcast. Light E'ly breeze 0625 and moderate to light rain 0600 to 1220. Intermittent rain and drizzle 1418 to 1720, light E.S.E. breeze 1620 gradually increasing force 3/4. The weather commenced to break about 1930 openings in clouds visible. Shower at 2200.

14. Overcast to cloudy early and gentle to moderate E.S.E. breeze Shower 0200 to 0210, then fine all day with variable sky. Very pretty purple and gold sunset.

15. Variable winds force 0/2 early, and mainly E.xS. Gentle to moderate E. to E.S.E. breeze 0752, backing N.E'ly 1835, falling off. Fine all day with variable sky, Sc. predominating, unusual visibility at times.

16. Fine all day with variable sky, but overcast 1820 to 1910 and trace rain. N'ly airs to calm at first, gentle to moderate E'ly breeze 0950, falling off 1700, backing N.E. to N'ly. Lunar corona about 2200.

Date.

17. N'ly airs to calm early and cloudy. Wind backed N.W'ly 0755 Rain 0640 to 0740. Light to gentle E.S.E. to E. breeze 0842 increasing force 2/4 gusty 1600. Cloudy to overcast all day with light showers from 1030 increasing to intermittent rain 1410 to 1540. Drizzle 1700 to 1705. Intermittent drizzle very thin at times, from 2035.

18. Intermittent drizzle to 0020. Overcast all day with As/Cb/Fs. Light E.S.E. to E. winds early increasing force 3/5 gusty 1048. Drizzle 0920 to 1010, and 1610 to 1710. Heavy shower at 2340.

19. Variable S.E. to N.N.E. squally winds force 1/5 early. Gentle to moderate E.S.E. breeze 0640, becoming gentler to fresh and gusty, momentarily backing E.N.E. 1520 to 1540. Gentle E.xS. breeze after 2100, overcast all day with As. predominating. Heavy shower at 1120. Rain 0325 to 0430; rain and drizzle 1500 to 1610; the maximum wind velocity 26 m.p.h. from E.N.E. at 1523.

20. Overcast all day with As. predominating, and gentle to moderate E.S.E. to S.S.E. breeze with occasional fresh gusts becoming light to gentle 2200. Trace rain 0745, About 1500 sky showed signs of clearing, but soon became densely overcast again. Thin intermittent drizzle 1900 increasing to moderate rain 2245 to 2400.

21. Overcast all day with intermittent rain and drizzle to 1510. Light variable winds at first, boxing compass 0245 to 0520. Light to gentle E.S.E. to E'ly breeze all day from 0540 with frequent strong gusts. Maximum wind velocity 32 m.p.h. from E.S.E. at 1710.

22. Gentle to fresh gusty E.S.E. breeze all day and mainly cloudy to overcast but clearing at times. Mainly clear sky during the early evening and Zodiacal light.

23. Gentle to moderate E'ly breeze all day with some fresh gusts 1100 to 1300, backing E.N.E. force 2/3 1635, becoming variable N. to N.W. 2100. Cloudy early, becoming half to quarter cloudy after 0700, and cloudy to overcast about 1600. Light shower 1630 to 1640. Light to heavy showers. 2010 to 2230.

24. Overcast early and light shower 0015 to 0022 then becoming half cloudy, covering again 1940. Light N.N.E. winds, increasing force 2/3, N.N.E. to E. with moderate to fresh gusts, falling off 1655. Mainly cloudy to overcast at night.

25. N.E'ly winds force 0/3 early, fine, cloudy and slight haze, becoming overcast 0800. Wind increased force 4/5 from E.N.E. at 0830 with some strong gusts falling off 1635. N.E'ly airs to calm after 1900. Showers 1115 to 1210. Intermittent rain 1630 to 1820. Maximum wind velocity 26 m.p.h. from E.N.E. at 1044.

26. Variable N.E'ly winds force 0/2 early, overcast and intermittent rain 0200 to 0440, then fine and ¼ to half cloudy, becoming overcast 1700 and half cloudy 2015. Wind veered E'ly gentle to moderate after 0900, falling off 1700 backing N.E. Slight haze at times.

27. N.E. airs to calm early fine and half cloudy. Light E.N.E. breeze 0745 increasing force 3/4 from E. 0850, gradually falling off 1610, backing N.E'ly .Variable sky after 1230, mainly cloudy to overcast, and slight haze. Light shower (trace) 1540 to 1550 and rainbow.

28. Fine cloudy and hazy early and N.E. airs to calm, increasing force 2/3 0815, and varying between N.E. and E. and sky becoming overcast. Rain 1045 to 1055 then occasional thin drizzle. Moderate rain and drizzle from 1955.

29. Overcast morning, moderate rain and drizzle to 0730. Gentle to moderate E'ly breeze backing N.E. after 0530, veering E.N.E. to E. 1046, backing N.E. 1640, gradually falling off 1800. Occasional thin drizzle during the day; cloudy and hazy afternoon, becoming overcast 1730. Intermittent drizzle and rain 2138.

30. Overcast with low clouds all day, light to moderate N.E. to E'ly winds and intermittent thin drizzle and rain.

ADDITIONAL NOTES.

A rather wet and cloudy month. Heavy rains fell from 4th to 8th (during the passage of a shallow depression moving S.E.) and moderate to light rain and drizzle during most of the remainder of the month.

Mean pressure at 8 a.m. 0·004″ and mean temperature 0·60 below normal. Rainfall 4·47″ above normal.

G. B. NASMYTH,
Harbour Master.

Suva, 2nd October, 1940.

Meteorological Observations

TAKEN AT SUVA, FIJI,

DURING OCTOBER, 1940.

Latitude, 18° 8′ South. Longitude, 178° 26′ East.

HOURS OF OBSERVATION.

(i) 8 a.m. or 2000 G.M.T. (ii) 2 p.m. or 0200 G.M.T.

Local Standard Time being 12 hours fast of Greenwich Mean Time.

Height of Cistern of Barometer above Mean Sea Level, 12 feet; Site of Rain gauge, 8 feet; Diameter of Rain-gauge, 8 inches. Height of other Instruments above ground:—Rim of Rain-gauge, 12 inches; Thermometers, 4 feet 6 inches; Sunshine Recorder, 3 feet 3 inches; Vane of Dine's Pressure Tube Anemometer, 48 feet 6 inches; Robinson Cup Anemometer (run of the wind pattern), 41 feet 6 inches

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Maximum Thermometer set at 8 h. Read at 8 h.

Minimum Thermometer set at 8 h. Read at 8 h.

Grass Min. Thermometer set at 16 h. Read at 8 h.

OCTOBER.

Day.	Attached thermometer and barometer as read in inches.				Air Pressure at Mean Sea Level in the Units of Measurement.		Temperature (degrees F.)										Humidity.						Wind Direction and Force (Beaufort Scale).			
							In Screen.						In Open.		In Ground.		Dew Point.		Vapour Pressure.		Percentage.					
	I		II		I	II	Dry.	Wet.	Dry.	Wet.	Maximum.	Minimum.	Grass Min. Eve to Morn.	Max. in Sun. Black Bulb in vacuo.	1 foot.	4 feet.	I	II	I	II	I	II	I		II	
							I		II						I								I		II	
							Tenths.				Whole Degrees.				Tenths.											
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	24	(25)	26
	°	"	°	"	"	"	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.			Dir.	F	Dir.	F
1	76	30·064	79	30·020	29·885	29·832	75·1	74·2	81·2	77·2	83	71	71	124	75·2	75·9	74	75	28·2	29·9	96	83	E.	3	E.	3
2	79	30·044	82	30·000	29·856	29·803	80·0	76·1	84·3	77·0	85	75	72	131	76·6	76·8	74	74	28·9	28·3	83	74	NEXE	2	N.E.	4
3	79	29·996	82	29·940	29·808	29·743	78·4	75·3	84·6	79·6	87	75	72	151	77·1	77·0	74	78	28·3	32·8	86	79	NXE	4	S.	2
4	80	30·006	83	29·950	29·816	29·751	81·2	75·2	82·0	78·6	89	73	69	153	78·0	78·0	72	77	27·0	31·7	75	86	NXE	3	N.E.	3
5	80	30·060	79	30·000	29·870	29·812	75·8	73·3	77·0	72·4	79	74	69	95	78·7	78·5	70	70	27·1	25·3	89	79	W.S.W.	3	S.	3
6	76	30·116	77	30·074	29·937	29·892	70·8	69·0	74·5	68·0	76	69	69	99	78·0	78·0	68	65	23·3	20·9	91	71	SXE	2	S.	3
7	74	30·167	76	30·140	29·993	29·961	70·4	68·6	76·0	68·2	77	69	67	104	77·1	77·8	67	63	22·5	19·8	91	66	E.S.E.	3	SEXE	3
8	74	30·186	75	30·094	30·011	29·917	71·6	67·4	73·1	69·7	76	69	66	97	76·3	77·4	66	68	21·6	23·1	79	84	EXS	4	EXS	4
9	74	30·078	75	29·996	29·904	29·819	71·4	71·0	74·4	73·0	75	69	68	86	76·0	77·3	70	72	25·3	26·6	98	93	Calm	0	SEXS	3
10	73	30·080	74	30·038	29·910	29·864	69·6	68·8	71·9	70·3	74	69	68	82	75·8	76·7	69	70	23·8	24·8	96	92	S.E.	3	S.S.W.	3
11	73	30·152	75	30·112	29·982	29·935	70·0	68·4	75·2	69·6	76	68	67	98	75·2	76·5	68	66	23·1	22·2	92	75	Calm	0	SEXE	2
12	73	30·230	72	30·190	30·059	30·022	72·2	67·0	70·9	68·7	73	69	67	83	75·2	76·3	64	68	20·4	23·3	75	89	E.S.E.	2	SEXS	2
13	73	30·270	74	30·220	30·099	30·045	71·4	65·2	75·2	66·0	76	68	65	117	75·0	76·8	61	60	18·4	17·8	71	60	E.S.E.	4	E.S.E.	4
14	73	30·228	76	30·160	30·057	29·980	73·2	64·0	77·6	67·4	80	69	60	127	74·4	76·0	58	62	16·4	18·9	59	57	EXS	3	E.S.E.	3
15	74	30·192	75	30·144	30·017	29·967	74·4	67·4	72·4	69·2	78	67	61	116	74·3	76·0	63	67	19·5	22·9	68	84	E.S.E.	3	N.N.E.	3
16	73	30·208	75	30·158	30·037	29·981	72·3	69·9	72·2	70·6	77	68	64	99	75·1	75·7	68	70	23·5	24·8	88	92	N.N.E.	1	N.N.W.	3
17	75	30·166	76	30·128	29·989	29·949	75·2	72·4	73·2	71·9	78	71	67	94	75·6	75·8	71	71	25·5	25·7	87	93	E.S.E.	4	E.S.E.	4
18	75	30·154	76	30·134	29·977	29·955	74·7	71·4	77·7	72·8	78	71	70	115	75·5	75·8	70	71	24·8	25·5	84	78	E.S.E.	5	E.S.E.	4
19	76	30·172	79	30·122	29·992	29·934	75·9	72·1	82·4	74·5	84	71	66	137	75·7	75·9	70	70	25·0	25·1	83	68	E.N.E.	2	E.	4
20	77	30·190	79	30·140	30·008	29·952	78·0	74·7	79·4	75·0	83	73	68	101	75·8	76·0	73	72	27·6	27·2	86	81	E.N.E.	2	E.S.E.	4
21	76	30·202	79	30·162	30·021	29·974	74·4	72·2	80·0	74·2	82	70	67	130	77·0	76·0	71	71	25·9	26·0	89	75	WXN	2	S.S.E.	4
22	78	30·204	78	30·156	30·018	29·971	77·2	71·4	78·2	70·8	80	73	68	120	77·4	76·1	68	66	23·3	22·1	75	68	SEXE	4	SEXS	5
23	76	30·154	76	30·102	29·975	29·923	74·0	67·5	74·5	69·0	78	70	64	95	77·1	76·4	64	66	20·1	22·2	70	75	S.E.	3	E.S.E.	4
24	75	30·112	79	30·070	29·935	29·882	74·8	69·4	79·8	71·8	82	68	62	131	76·2	76·2	66	68	22·2	23·3	75	66	EXS	3	E.S.E.	4
25	76	30·130	80	30·108	29·951	29·918	76·2	71·2	81·4	74·6	82	72	68	140	76·8	76·2	68	71	23·7	25·6	78	72	EXS	4	E.S.E.	4
26	78	30·182	80	30·116	29·997	29·926	78·0	74·0	81·2	76·0	82	73	71	139	76·7	76·2	72	74	26·9	28·4	82	78	E.S.E.	4	SEXE	4
27	78	30·128	79	30·068	29·943	29·880	76·8	74·6	77·4	74·2	80	73	71	104	76·8	76·2	74	73	28·8	27·3	90	86	E.	3	EXS	4
28	77	30·116	79	30·076	29·934	29·888	77·0	74·0	79·0	75·0	81	74	71	100	77·8	76·6	73	73	27·3	27·9	86	82	E.S.E.	2	E.S.E.	4
29	78	30·130	81	30·054	29·945	29·861	78·0	74·4	81·5	75·5	82	75	73	131	77·9	76·8	73	72	27·6	27·0	84	75	E.S.E.	4	E.S.E.	5
30	79	30·116	81	30·066	29·928	29·873	78·0	76·5	82·0	76·0	84	75	73	151	77·3	78·2	76	73	30·5	28·0	94	75	EXS	2	NEXN	2
31	79	30·110	81	30·048	29·922	29·855	77·0	74·0	81·9	76·0	83	74	71	140	79·1	78·0	73	73	27·3	28·0	86	75	EXS	3	SEXE	4
Tls.	2357	934·343	2412	932·786	928·776	927·065	2323·0	2110·6	2411·2	2252·8	2480	2205	2105	3590	2370·7	2377·1	2150	2169	763·8	782·4	2586	2411	...	..	...	..
Mns	76·0	30·140	77·8	30·090	29·961	29·905	74·9	71·3	77·8	72·7	80·0	71·1	67·9	115·8	76·5	76·7	69·4	70·9	24·6	25·2	83·4	77·8	...	..	...	..

Temperature—
Daily Range: (Mean Max.—Mean Min.)—8·9
Greatest Range—16 on 4th.
Least Range—4° on 12th.
Mid Temperature: ½ (Max. + Min.)—75·6°.
Highest Maximum—89 on 4th.
Lowest Minimum—67° on 15th.
Lowest Maximum—73° on 12th.
Highest Minimum—75° on 2nd, 3rd, 29th and 30th.
Lowest Grass Minimum—60 on 14th.
Humidity—
Greatest Humidity—98 per cent. on 9th at 8 a.m.
Least Humidity—57 per cent. on 14th at 2 p.m.
Air Pressure—
Highest Value at M.S.L.—30·099″ on 13th at 8 a.m.
Lowest Value at M.S.L.—29·743″ on 3rd at 2 p.m.

No. of days of—
Rain—26.
Hail—0.
Thunderstorms—1
Fog—0.
Gales (force 8 or more)—0.
Rainfall—
Total—9·98″ or 253·49 mm.
Average for 56 years—9·07″
Difference from normal + 0·91″.
Greatest fall in 24 hours—3·68″ or 93·47 mm. on 9th
Total since 1st January—85·92″.

Prevailing Direction, E.S.E.; 8h., E.S.E.; 14h., E.S.E.; Maximum velocity, 30 m.p.h. from E.S.E. at 1158 on 17th.

VISIBILITY SUMMARY—No. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8 a.m.	0	0	0	0	0	0	2	1	2	7	7	4	7	1
2 p.m.	0	0	0	0	0	0	1	3	2	5	5	7	5	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—6½ miles, K—12½ miles, L—18½ miles, M—31 miles.

OCTOBER.

Wind. Miles run for previous 24 hours.	Wind. Mean velocity.	Weather for 24 hours ending midnight. (Beaufort Letters). Before Obser'tion.	At time of Obser'tion.	Between Obser'tion hours.	At time of Obser'tion.	After Obser'tion.	Visibility.		Cloud. Amount (0–10).		Cloud. Form.		Cloud. Direction whence coming.		Amount of Rain. 6 hours during the day measured at 14h.	Amount of Rain. 18 hours measured next morning at 8h.	State of ground.		Sunshine (hours and tenths).	Day.
		I	I	I and II	II	II	I	II	I	II	I	II	I	II			I	II		
(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	44	45	(46)	
															"	"				
175·2	7·3	oidr	oid	oid,cp,bc	bcp	cp,bc,o	G	J	10	6	St	Sc/Cu/Cb	E.	E.N.E.	0·06	0·03	1	1	5·0	1
204·8	8·5	op,c,bc	bc	bc,op,c	c	oid,bc,o	L	L	4	8	Cu/Cb	Ac/Cu/Cb	N.E.	NW/NE	0·03	0·03	1	1	3·4	2
223·2	9·3	oid	o	cp,bcP	cjp	cP,bc,b	L	K	9	8	Sc/Cb/St	Cu/Cb/Fs	N.E.	N.W.	0·03	0·02	1	1	6·6	3
139·2	5·8	cp,bc,b	b	b,op,bc,cP	cP	CP,bc,oid	M	M	3	7	Sc/Cu	Cu/Cb	N.	N.N.E.	0·31	0·02	1	1	5·7	4
141·6	5·9	bc,b,c,o	ojp	op,c,b	ojp	oid	I	M	9	9	Cb/Fs	As/Cb	S.W.	?/NXE	Trace	0·19	1	1	4·5	5
201·6	8·4	oid,r	oid	oid	ojp	od	I	J	10	10	Sc/St	Sc/St	S.	....	Trace	0·02	2	1	0·0	6
170·4	7·1	oid	oid	oid	o	oidrq	F	L	10	10	St	Ac/Cu	E.S.E.	?/SE	0·01	0·28	1	1	0·0	7
208·8	8·7	oidq	ojp	oidq	oid	oidq	K	I	10	10	As/Ns	As/Ns	?/ESE	?/E	0·01	0·08	1	2	0·0	8
120·0	5·0	oidq	oid	oidrRrR	oid	orRrRd	F	I	10	10	St	St	N.E.	S.E.	0·72	2·96	2	2	0·0	9
177·6	7·4	orRr,dd	odd	oid,d	oid	oid	H	F	10	10	St/Ns	Ns/Fs	S.E.	S.S.W.	0·01	0·07	2	2	0·0	10
136·8	5·7	oid	oid	oid	ojp	oid	J	K	10	10	St	Sc	E.S.E.	....	Trace	0·05	2	1	0·0	11
112·8	4·7	oid	o	orr	oid	oid,r	K	J	10	10	Sc	As/Fn	E.S.E.	?/SE	0·29	0·12	1	2	0·0	12
156·0	6·5	oidr	ojp	o	o	o,bc,b,c	K	K	10	9	As/Cu	Sc/Cu	?/ESE	E.S.E.	..	..	2	1	0·4	13
208·8	8·7	bc,o,c	c	bc,c	c	c,opq,bc	L	K	8	7	Sc	Ac/Sc/Cu	E.	?/SE	..	0·03	1	1	5·0	14
163·2	6·8	o,bc,c	c	op,c	op	oP,c	L	G	7	9	Ac/Sc/Cu	Sc/Ns	WNW/ESE	N.E.	0·04	0·07	1	1	0·8	15
108·0	4·5	c,o	o	oir	oir	oir	K	G	9	10	Sc/Cu	As/Cb/Ns	S.E.	?/E	0·12	0·37	1	1	0·7	16
148·8	6·2	oir,r	ojp	orRRq	or	oR,idr	H	G	9	10	Ac/Cb/Cu/Fs	Ns/St	?/ESE	E.S.E.	0·48	0·68	1	2	0·0	17
237·6	9·9	or	ojp	oird	ojp	c,bc,b	I	I	10	9	As/Cb/Ns	Ci/Cu/Cb	?/ESE	?/ESE	0·13	0·01	2	1	1·2	18
139·2	5·8	b,bc,cp	c	c,bc	bc	bc,c,o,b	J	L	8	4	Sc/Cu/Cb	Cu/Cb	E.	N.E.	..	..	1	1	8·0	19
189·6	7·9	c,bc,o	o	bc,c,o	od	odr	L	L	9	9	Sc/St	Sc/St	....	..	Trace	0·07	0	0	2·0	20
136·8	5·7	oid	ojp	c,o	o	o,c,bc	J	K	10	9	Sc/St	Ci/Sc/Cb	W.	?/SE	..	0·02	1	0	4·9	21
223·2	9·3	bc,cp	bcjp	bc,c,o	ojp	o,c,bc	J	J	6	9	Ci/Ac/Cb/Fc	Sc/Cu/Cb	WNW/SE	?/SE	..	..	0	0	5·0	22
273·6	11·4	bc,c,o	c	oidr	oid	o,c,bw	L	K	8	9	Ac/Sc/Cu	Sc/Cu	?/SE	E.S.E.	0·06	..	0	1	0·8	23
134·4	5·6	bc,o,c	c	o,c	c	o,c,bc	L	K	8	7	Ci/Ac/Sc/Cu	Ci/Ac/Cb/Cu	W/W/E	W/W/ESE	..	..	0	0	2·4	24
204·8	8·5	c,o	o	c,op	c	c,oir	J	J	9	8	Ac/Cb/Cu	Ac/Cu/Cb	?/E	W/ESE	0·01	0·10	0	0	3·6	25
249·6	10·4	oP,c,bc	c	c,op,bc	ojp	oidrq	J	I	7	9	Ac/Cu/Cb	Ac/Cu/Cb	NE/SE	?/ESE	0·01	0·10	0	0	4·0	26
194·4	8·1	oid,c	ojp	c,bc,oird	ojp	oidr,bc	J	H	10	10	As/Sc/St	As/Ns/Fs	?/E	?/E	0·06	0·04	1	1	0·6	27
163·2	6·8	c,od	ojp	o,cp	cp	cop	I	H	9	8	Ac/Sc/St/Cu	Ac/Cb/St/Cu	?/E	?/E	Trace	Trace	1	1	1·7	28
244·8	10·2	c,o	ojp	c,o	ojp	c,op	I	I	9	9	Ac/Fc/Cu	Ac/St/Ns	?/ESE	?/ESE	..	0·05	0	0	2·8	29
189·6	7·9	c,op	ojp	o,bc,cp	bc	bc,c,o,b	I	M	9	6	As/Ns/St	Ci/Ac/Cb/Cu	?/E	W/W/ENE	Trace	0·11	1	0	5·8	30
184·8	7·4	bc,c,op,P	cjp	o,c,bc	c	c,orRtlq	I	L	7	7	Ci/Ac/Cb/Fs	Ci/Ac/Cb/Cu	W/W/E	W/W/ESE		2·08	1	0	4·4	31
5562·4	231·4	..	...	....	...	....	..	..	267	266	.....	.....	....	....	2·38	7·60	..	..	79·3	Totals
179·4	7·5	....	...	....	.			..	8·6	8·6	.....	.....	....	....	..	..	..	..	2·6	Means

CLOUD AMOUNT.

Number of cases of total cloud amount of:—

Hour.	0	1/3	4/6	7/9	10
8 a.m.	0	1	2	16	12
2 p.m.	0	0	3	18	10

WIND SUMMARY—No. OF OBSERVATIONS OF.

	Force 8 or More.	4/7	1/3.	Calms.	N.N.W.	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.
8 a.m.	0	9	20	2	0	2	1	1	2	8	9	3	0	1	0	0	1	1	0	0
2 p.m.	0	17	14	0	1	0	1	3	0	4	10	7	1	3	1	0	0	0	0	0
Total	0	26	34	2	1	2	2	4	2	12	19	10	1	4	1	0	1	1	0	0

Wind:—Total miles, 5562·4; mean velocity, 7·5 m.p.h.; maximum velocity, 30 m.p.h. from E.S.E. at 1158 on 17th.

WEATHER DIARY FOR OCTOBER, 1940.

Date.

1. Intermittent drizzle and rain to 0100, and 0450 to 0810. Light to moderate N.E. to E. winds all day. Passing showers and bright intervals 0915 to 1410. Variable sky at night but mainly overcast and occasional very light showers (trace only).
2. Cloudy to overcast early and light showers 0200 to 0605. Light to moderate N.E. to N.N.E. winds backing S.W. to S'ly 1255, gradually falling off and becoming variable, veering N.N.W. to N. about 1800. Variable sky during the day. Heavy shower 1340 to 1425, then sky cleared. Cloudless at times at night and stars very bright.
3. N.E. to N. airs to calm early, fine and clear to half cloudy, wind increasing force 2/3 0500. Cloudy and light showers, 0925 to 0930, and at 1733. Heavy showers 1340 to 1410. Mainly overcast at night with thin intermittent drizzle 1925 to 2120, N.N.W. to N.N.E. winds force 2/4 during the day vering E.N.E. 1405. Gradually falling off veering S.E'ly, and to S.W'ly 1925, rapidly falling off and backing N.N.E.
4. N.E. to N. airs to calm early, fine and half cloudy to clear, increasing force 2/3 0500. Cloudy and light showers 0925 and 0930, and at 1733. Heavy showers 1340 to 1410. Mainly overcast with thin intermittent drizzle 1925 to 2120, N.N.W. to N.N.E. winds force 2/4 during the day, veering E.N.E. 1405, gradually falling off veering S.E'ly, and to S.W'ly force 2, 1952, then falling off and rapidly backing N.N.E.
5. Fine clear sky early, and calm. Gentle W.S.W. to S.S.W. breeze 0520, and sky covering. Light showers 0815 to 0840, then sky cleared, becoming overcast again about 1130, and trace rain. Intermittent drizzle from 1912. Wind backed S.E. 1420, gradually veering S.W'ly force 2/3 1725.
6. Overcast all day with Sc. predominating. Variable W. to S. winds force 1/3 at first, increasing force 3/4 0600, varying between S.W. and E.S.E. force 2/4 after 0800, backing N.E. 2000, falling off, veering S.E'ly 2240. Intermittent drizzle and rain to 0810, and drizzle, trace only, 1340 and 1920.
7. Overcast all day except for slight clearings about 0830. Intermittent drizzle 0740 to 0810, and drizzle and rain 1635 to 2310. Light to gentle S.S.E. to E.S.E. winds early, becoming gentle to fresh squally after 1920.
8. Overcast all day with occasional thin drizzle from 0115. Gentle to strong squally variable winds, mainly E'ly, backing N.E. after 1500, falling off 1950. Maximum wind velocity 25 m.p.h. from E. at 1450.
9. Overcast all day, thin intermittent drizzle early increasing to moderate drizzle, 0600 and to moderate to heavy rain all day from 0810. Calm early. S.S.E'ly breeze force 1/3 from 0945.
10. Overcast all day, moderate to heavy rain to about 0200 then intermittent slight to moderate drizzle to 2300. Light to gentle S.S.E. winds, but moderate to fresh 0200 to 0300, veering S. to S.S.W. 1105, backing S. to S.S.E. 1700, falling off 1910.
11. Overcast all day and slight to moderate intermittent drizzle 0300 to 0815, and from 1645. Light variable S.S.E. winds to calm at first, becoming light to gentle S.E. to E.S.E. 1000, falling off after 1500.
12. Slight to moderate intermittent drizzle to 0500 and overcast all day and S.S.E. to E.S.E. winds force 1/3. Drizzle and rain 0850 to 1300, then slight to moderate intermittent drizzle to 1725, E'ly airs to calm after 1600 Light E.S.E. breeze 1920. Calm 2330.
13. Overcast early and intermittent drizzle and rain 0120 to 0350. Gentle to moderate E.S.E. breeze 0205 with fresh to strong gusts during the day, gradually falling to force 3 after 1500. Sky remained overcast with Sc. and Cu. after about 0930, clearing about 1700. Variable sky after 2000. Maximum wind velocity 25 m.p.h. from E.S.E. and 1036.
14. Fine and cloudy early with Sc/Cu. and gentle to moderate E.S.E. to E'ly winds with some fresh gusts, gradually falling off 1700, backing N.E. Moderate S.E. squall 1926. Half cloudy at times during the day, variable sky at night, mainly cloudy, light to moderate showers.
15. Fine and half cloudy to three quarter cloudy early and S.E. winds force 0/4. Mainly overcast after 0820, and passing showers 0825 to 0915. Heavy showers 1350 to 1420. Wind backed N.N.E. 1345. veering E.N.E. 1435, and to E. 1920, falling off 2010.
16. Cloudy to overcast early and N.N.E. airs to calm, but continually overcast after 1135. Light intermittent rain 1002, increasing to moderate intermittent rain 1255 to 1530. Light to gentle E.S.E. to E'ly breeze 0830, becoming variable E. to N. and N.N.W. 1300, veering E force 2/4 1604, gradually backing N.E. after 1800, falling off 1900. Light intermittent rain 2345.
17. Mainly calm early with occasional light to gentle gusts. Gentle E.S.E. to E'ly breeze 0615, increasing force 4/5 with some strong gusts, gradually backing E and to N.E. 1622, falling off. Gentle to moderate E'ly breeze 1948. Overcast all day. Light intermittent rain and drizzle to 0340. Moderate intermittent rain 0500 to 0600. Moderate to heavy rain 1225 to 1410, (then intermittent slight drizzle) and 1625 to 1715, then intermittent rain and drizzle to 2210. Maximum wind velocity 30 m.p.h. from E.S.E. at 1158.

Suva, 1st November, 1940.

Date.

18. Overcast early and moderate to fresh gusty E. to E.S.E. breeze, falling to force 3 1745, and to E.N.E. airs 2120. Moderate rain 0400 to 0605, and intermittent drizzle and rain 0845 to 1230. Variable sky after 1530, being clear at times at night.
19. E.N.E. airs to calm early, increasing force 2/3 0746. Fine and half to three quarter cloudy, except for light shower at 0408, becoming cloudy to overcast 1630, clearing 1800. Moderate to fresh E'ly breeze 0900, gradually backing E.N.E. after 1600, falling off. Calm 2052. Maximum wind velocity 24 m.p.h. from E.xS. at 1413.
20. Mainly cloudy to overcast all day, but half cloudy at times between 0700 and 1200. Calm early, light to gentle, E.N.E. to E.S.E. breeze 0715, increasing force 4 after 1100. falling off 1540, calm 1800. Slight drizzle 1400, increasing to light rain 1620 to 1710 then drizzle to 1830 and 2340.
21. Overcast early and calm. Light variable W'ly winds 0725 backing S.S.E. 1022, increasing force 3/4, gradually falling to force 2/1, 1600, increasing force 3 2240. Slight drizzle to 0100, variable sky all day but mainly half cloudy during the afternoon and night.
22. Variable sky all day and night, mainly cloudy, and moderate E'ly breeze, increasing to moderate to strong gusty breeze 0650, moderate 2000. Light showers 0415 to 0425. Maximum wind velocity 29 m.p.h. form S.E.xS. at 1220.
23. Mainly overcast all day, becoming cloudless about 2110, and gentle to moderate S.E. to E.S.E. breeze, gradually falling off 1700. Calm 1935. Intermittent drizzle and rain 1050 to 1402. Dew at night.
24. Calm early and cloudy to overcast all day but fine. Light to gentle E.xS. breeze 0730, increasing force 4 from E.S.E. 0825 with occasional fresh gusts. Sky cleared to half cloudy 2230 to about midnight.
25. Cloudy to overcast early and gentle E.S.E. breeze, falling off 0520, increasing force 4 from E.xS. 0730, gradually veering S.E. Fresh gusts 1250 to 1425. Showers 1110 to 1125. Mainly overcast after 1500. Intermittent rain 1630 to 1810. Maximum wind velocity 27 m.p.h. from E.S.E. at 1255.
26. Gentle to moderate E.S.E. breeze all day, falling off 1830, backing E. and cloudy to overcast with occasional bright intervals up to 1500, then mainly overcast. Heavy showers 0115 to 0130. Moderate showers 1030 to 1400. Intermittent rain and drizzle from 1950. E.S.E. squall (28 m.p.h.) at 2140.
27. Intermittent drizzle to 0140. Mainly overcast all day, but cloudy early and bright intervals 0840 to 0920. Light E.xN. winds at first, becoming gusty force 3/5 after 0610. gradually falling off 1500, backing E.N.E. Intermittent rain and drizzle 1020 to 1830, sky becoming half cloudy about 2130. The maximum wind velocity 26 m.p.h. from E.S.E. at 1114.
28. Cloudy to overcast all day except for occasional bright intervalt 1050 to 1500. Slight drizzle 0520 to 0540. Calm at first, lighs E.xN. breeze 0305 becoming gusty, E. to E.S.E. force 2/5 0725. Light showers (trace only) at 0950, 1400 and 2140 to 2200.
29. Fine but cloudy to overcast all day, and light to moderate gusty E. to E.S.E. winds, becoming moderate to strong about 0930, gradually falling off 1440. Showers 1750 to 1800. maximum wind velocity 28 m.p.h. from E.S.E. at 1342.
30. Light E. to E.S.E. winds to calm early, cloudy to overcast and light showers 0315 to 0845. Variable sky during the day with frequent bright intervals becoming overcast 1730 and clear to cloudless 2100. Wind veered S.E.xS. increasing force 4, freshening 1200, then falling off and backing N.E'ly veering E.S.E. force 3 1500, falling off 1830 to calm. Maximum wind velocity 25 m.p.h. from E.S.E. at 1208. Anvil clouds seen during the forenoon. Trace rain 1255.
31. Fine and half cloudy early, becoming cloudy to overcast with light to heavy showers 0235 to 0735. Gentle E.S.E'ly breeze 0445. Variable sky 0810 to 1440, but mainly cloudy, becoming overcast 1500. Moderate rain 1550 to 1715. Heavy rain 1858 to about 2015, then light to moderate rain. Moderate thunderstorm 1830 to 1930. Moderate breeze 0855 with occasional fresh gusts, and strong E.N.E. squall 1858 to 1903. (26 m.p.h.)

ADDITIONAL NOTES.

A rather dull and wet month rainfall being 0·91″ above the average. Heavy falls occurred on 9th and 31st, and a thunderstorm on the later date which was the first recorded since April 11th.

Mean temperature 0·4° and mean pressure at 8 a.m. 0·003″ below normal.

G. B. NASMYTH,
Harbour Master.

Meteorological Observations

TAKEN AT SUVA, FIJI,

DURING NOVEMBER, 1940.

Latitude, 18° 8′ South. Longitude, 178° 26′ East.

HOURS OF OBSERVATION.

(i) 8 a.m. or 2000 G.M.T. (ii) 2 p.m. or 0200 G.M.T.

Local Standard Time being 12 hours fast of Greenwich Mean Time.

Height of Cistern of Barometer above Mean Sea Level, 12 feet; Site of Rain gauge, 8 feet; Diameter of Rain-gauge, 8 inches. Height of other Instruments above ground:—Rim of Rain-gauge, 12 inches; Thermometers, 4 feet 6 inches; Sunshine Recorder, 3 feet 3 inches; Vane of Dine's Pressure Tube Anemometer, 48 feet 6 inches; Robinson Cup Anemometer (run of the wind pattern), 41 feet 6 inches

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Maximum Thermometer set at 8 h. Read at 8 h.

Minimum Thermometer set at 8 h. Read at 8 h.

Grass Min. Thermometer set at 16 h. Read at 8 h.

NOVEMBER.

Day.	Attached thermometer and barometer as read in inches.				Air Pressure at Mean Sea Level in the Units of Measurement.		Temperature (degrees F.)										Humidity.						Wind Direction and Force (Beaufort Scale).			
							In Screen.						In Open.		In Ground.		Dew Point.		Vapour Pressure.		Per-centage.					
							Dry.	Wet.	Dry.	Wet.	Maximum.	Minimum.	Grass Min. Eve to Morn.	Max. in Sun. Black Bulb in vacuo.	1 foot.	4 feet.										
	I		II		I	II	I		II						I		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)	(19)	(20)	(21)	(22)	(23)	24	(25)	26
	°	"	°	"	"	"	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.			Dir.	F	Dir.	F
1	77	30·084	77	30·050	29·902	29·868	73·8	72·4	76·2	71·0	76	71	70	121	78·7	77·7	72	68	26·6	23·7	93	77	SEXE	2	SEXS	4
2	75	30·070	77	30·040	29·893	29·858	74·1	67·9	76·2	67·0	79	70	67	111	78·3	78·0	64	61	20·7	18·6	71	60	S.E.	4	E.S.E.	4
3	73	30·056	77	29·988	29·886	29·806	74·2	66·3	80·8	69·7	81	65	58	143	77·7	77·6	61	64	18·3	20·2	65	55	Calm	0	E.S.E.	4
4	76	30·052	77	30·038	29·873	29·856	76·7	70·8	78·1	70·0	80	68	62	128	78·5	77·7	68	66	23·3	21·5	73	66	Calm	0	S.S.E.	3
5	76	30·128	79	30·104	29·949	29·916	74·3	69·2	79·4	71·0	82	66	61	125	78·4	77·5	66	66	22·0	21·7	76	65	Calm	0	SEXE	4
6	76	30·138	77	30·096	29·959	29·914	73·7	70·7	77·1	71·3	79	72	68	99	78·5	77·8	69	68	24·6	23·3	86	75	Calm	0	E.N.E.	2
7	77	30·094	79	30·036	29·912	29·848	76·6	75·0	79·4	76·0	82	73	69	99	77·7	78·2	75	74	29·5	28·6	93	85	E.N.E.	2	E.S.E.	4
8	78	30·066	80	30·018	29·881	29·828	77·8	74·8	80·9	75·0	82	71	67	139	78·3	77·8	74	72	28·3	27·0	86	75	Calm	0	S.	3
9	77	30·138	80	30·110	29·956	29·920	77·6	72·8	82·4	72·8	83	71	68	129	79·0	78·1	71	67	25·5	23·0	79	61	S.S.E.	3	SEXE	3
10	78	30·200	79	30·122	30·014	29·934	78·6	71·2	80·0	71·8	81	69	66	127	78·8	78·1	68	68	23·0	23·3	68	66	SEXE	3	E.S.E.	2
11	78	30·146	80	30·106	29·961	29·916	77·4	71·2	80·0	71·5	83	73	69	122	78·6	78·2	68	67	23·3	21·3	73	65	EXS	2	E.S.E.	4
12	78	30·132	79	30·076	29·947	29·888	76·2	66·2	79·2	67·7	81	70	64	121	79·0	78·1	60	60	17·4	17·9	57	53	SEXE	3	E.S.E.	3
13	76	30·107	80	30·084	29·928	29·894	77·2	68·2	82·8	72·1	84	67	62	144	78·6	78·3	63	67	19·4	22·6	62	57	EXN	2	E.S.E.	4
14	77	30·148	80	30·098	29·966	29·906	77·0	67·8	80·5	68·3	82	72	68	139	79·5	78·4	63	61	19·4	18·0	60	51	SEXE	3	SEXS	3
15	76	30·122	80	30·080	29·943	29·890	77·2	67·2	81·2	70·0	83	68	62	146	79·2	78·7	61	63	18·2	20·2	58	55	E.N.E.	2	E.S.E.	4
16	77	30·122	80	30·060	29·940	29·870	75·8	69·7	82·0	70·0	83	70	62	130	79·2	78·6	67	63	22·4	19·7	72	53	E.N.E.	1	E.N.E.	4
17	78	30·078	82	30·018	29·893	29·821	79·0	73·5	87·5	76·7	83	69	62	148	79·0	78·8	71	71	25·7	25·8	76	60	N.N.E.	3	E.N.E.	4
18	79	30·074	84	30·034	29·886	29·832	80·0	71·6	87·6	73·0	89	73	68	150	79·8	78·7	67	66	22·6	21·7	65	48	NXE	4	NEXE	4
19	80	30·145	85	30·070	29·955	29·865	77·9	73·1	86·7	75·8	88	74	70	142	80·2	78·4	71	71	25·5	25·8	79	59	Calm	0	E.S.E.	3
20	80	30·132	84	30·050	29·942	29·848	76·7	74·3	84·5	76·7	87	75	74	134	81·3	78·5	73	73	28·0	28·1	89	69	N.N.E.	3	E.S.E.	4
21	81	30·066	82	30·006	29·873	29·809	78·4	75·8	81·0	76·2	82	75	74	116	80·4	78·5	74	74	29·0	28·4	88	79	E.S.E.	2	SEXE	3
22	81	30·020	81	30·010	29·827	29·807	81·2	75·8	79·4	75·6	85	75	72	137	80·4	79·0	73	73	27·7	27·9	77	83	N.E.	2	E.	3
23	79	30·080	82	30·030	29·892	29·833	77·4	76·0	84·4	78·0	86	73	72	142	80·4	79·0	75	75	29·5	29·3	94	74	E.N.E.	1	E.S.E.	4
24	81	30·098	83	30·044	29·905	29·845	80·4	77·0	86·2	77·4	87	74	73	147	80·9	79·2	75	73	29·6	27·7	85	66	E.	2	NEXE	3
25	81	30·100	84	30·052	29·907	29·850	81·8	77·2	86·0	77·8	87	76	73	151	81·2	79·2	76	75	30·2	29·2	81	68	E.	3	EXS	4
26	80	30·088	84	30·036	29·898	29·834	80·8	75·0	84·2	75·8	85	72	71	149	81·8	79·7	72	72	27·0	26·4	75	67	EXN	3	EXS	5
27	79	30·040	82	30·034	29·852	29·837	78·0	74·0	82·4	75·0	84	73	72	142	81·3	79·6	72	71	26·9	25·8	82	70	E.S.E.	4	SEXE	4
28	79	30·085	79	30·082	29·910	29·894	78·2	68·8	78·4	69·6	80	72	70	121	81·0	79·4	63	64	19·6	20·2	60	62	E.S.E.	4	SEXE	4
29	78	30·118	79	30·091	29·933	29·903	78·1	67·0	80·5	69·0	83	70	61	138	80·0	79·2	60	62	17·7	18·7	54	53	E.	4	E.	5
30	78	30·124	81	30·094	29·939	29·901	79·0	69·6	82·1	71·3	84	71	65	136	79·4	79·2	64	65	20·4	21·0	60	57	E.	4	E.S.E.	4
Tls.	2339	903·064	2413	901·755	897·522	895·991	2325·1	2150·1	2447·1	2183·1	2496	2138	2020	3976	2385·1	2355·2	2056	2040	721·3	706·6	2237	1934	...	..	...	..
Mns	78·0	30·102	80·4	30·059	29·917	29·866	77·5	71·7	81·6	72·8	83·2	71·3	67·3	132·5	79·5	78·5	68·5	68·0	24·0	23·6	74·6	64·5	...	..	...	.

Temperature—
Daily Range: Mean Max.—Mean Min.—11·9°.
Greatest Range—19° on 17th.
Least Range—5° on 1st.
Mid Temperature: ½ (Max. + Min.)—77·2°.
Highest Maximum—89° on 18th.
Lowest Minimum—65° on 3rd.
Lowest Maximum—76° on 1st.
Highest Minimum—76° on 25th.
Lowest Grass Minimum—58° on 3rd.

Humidity—
Greatesr Humidity—94 per cent on 23rd at 8 a.m.
Least Humidity—48 per cent on 18th at 2 p.m.

Air Pressure—
Highest Value at M.S.L.—30·014″ on 10th at 8 a.m.
Lowest Value at M.S.L.—29·806″ on 3rd at 2 p.m.

No. of Days of—
Rain—13.
Hail—0.
Thunderstorms—3.
Fog—0.
Gales (force 8 or more)—0.

Rainfall—
Total—5·10″ or 129·54 mm.
Average for 56 years—10·25″.
Difference from normal— — 5·15″.
Greatest fall in 24 hours—1·34″ or 34·04 mm on 7th.
Total since 1st January—91·02″.

Prevailing Direction, E.S.E.; 8h., E: 14h., E.S.E Maximum velocity, 28 m.p.h. on 26th and 28th.

VISIBILITY SUMMARY—No. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8 a.m.	0	0	0	0	0	0	0	0	0	5	3	6	5	11
2 p.m.	0	0	0	0	0	0	0	0	0	4	3	6	6	11

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—18¾ miles, M—31 miles.

NOVEMBER.

Wind. Miles run for previous 24 hours.	Wind. Mean velocity.	Weather for 24 hours ending midnight. (Beaufort Letters). Before Observation.	At time of Observation.	Between Observation hours.	At time of Observation.	After Observation.	Visibility.		Cloud. Amount (0–10).		Cloud. Form.		Cloud. Direction whence coming.		Amount of Rain. 6 hours during the day measured at 14h.	Amount of Rain. 18 hours measured next morning at 8h.	State of ground.		Sunshine (hours and tenths).	Day.
		I	I	I and II	II	II	I	II	I	II	I	II	I	II			I	II		
(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	44	45	(46)	
															"	"				
216·0	9·0	orr	orr	orr,idr	ojp	or,c	I	J	9	10	As/Cb/Fn	As/Ns/Fs	?/ESE	?/SE	0·29	0·18	2	2	0·0	1
252·0	10·5	or,c	c	ojp,c	c	o,c,bc,b	J	L	7	8	Sc/Cu	As/Sc/Cu	S.E.	—/—	..	..	2	1	2·0	2
158·4	6·6	bc,bw	b	b,bc	b	b,c,o,bc	M	M	1	2	Cu	Cu	E.	S.E.	..	..	0	0	9·7	3
153·6	6·4	b,bc	bc	bc,c	c	c,o,bw	M	M	4	7	Cu	Sc	....	S.E.	..	..	0	0	6·2	4
141·6	5·9	b,bc	bc	bc,cz	cz	cz,bc,o	M	I	3	7	Cu	Ac/Cu/Cb/Fs	....	?/SE	..	0·04	0	0	7·2	5
168·0	7·0	c,op	ojp	o,id	ojp	op	I	I	10	10	As/Cu/Ns/Fs	As/Sc/St	—/—	?/ENE	Trace	0·05	1	0	0·3	6
110·4	4·6	op,id	oid	ojp,id	ojp	oRtl,oidr,b	I	I	9	10	Ac/Ns/Fc	As/Cb/Fs/Fc	WNW/ENE	?/ESE	0·03	1·31	1	1	0·0	7
115·2	4·8	c,bc,b	c	c,bc,b	c	ct,odr,b	L	M	7	7	Ac/Sc/Cb	Ci/Ac/Cu/Cb/Fc	WNW/?	WNW/SE	..	0·11	2	1	7·1	8
139·2	5·8	b,c,bc	b	bcz,c	bcz	bcz,b	M	K	3	6	Ac/Sc/Cu	Cc/Sc/Cu	?/?	W/SE	..	..	1	0	8·4	9
153·6	6·4	b,bcz	bcz	bcz,c	cz	cz,oc,bc	J	J	6	7	Ci/Cu	Cs/Sc/Cu	W/E	?/E	..	..	0	0	4·1	10
158·4	6·6	bcz	cz	bc,c	c	c,o	K	K	7	6	Ci/Cu	Ci/Sc/Cu	W/E	—/E	..	..	0	0	7·7	11
184·8	7·7	c,bc	bc	c,bcv	bcv	bcv,bw,bc	M	M	6	6	Cs/Sc/Cu	Ci/Sc/Cu	?/—	?/SE	..	..	0	0	9·9	12
189·6	7·9	b	b	b,bc	b	bc,c	M	M	2	3	Cu	Ac/Sc/Cu	E.S.E.	—/ESE	..	..	0	0	11·4	13
180·0	7·5	c,bc	bc	bc,b	b	b,bc,c	M	M	4	1	Cu	Cu	S.E.	S.E.	..	..	0	0	10·7	14
158·4	6·6	c,bc	bc	bc	bc	bc,c	L	M	6	6	Ac/Sc/Cu	Sc/Cu	E/E	?/SE	..	..	0	0	9·5	15
211·2	8·8	bc,c	cp	cp,bc	bc	bc,b	K	M	8	5	Sc/Cu	Sc/Cu	N.E.	....	Trace	..	0	0	4·3	16
264·0	11·0	b,bc	b	b,bc	b	b	M	M	1	3	Cu	Ci/Cu	N.E.	—/N.E.	..	..	0	0	11·4	17
271·2	11·3	b	b	b	b	bcz,o,c	M	M	1	3	Cu	Ci/Cu	....	....	..	..	0	0	10·8	18
172·8	7·2	bc,c,o	c	bc,c	c	c,o,bc	L	L	7	7	Ac/Cu	Ci/Ac/Cu	W/NE	?/W/ESE	..	0·02	0	0	6·1	19
65·8	2·7	c,op	op	c	c	c,bc,o	L	L	10	8	As/Cb/Fs	Cs/Ac/Sc/Cb	?/NE	W/W/E	..	0·93	0	0	3·0	20
81·6	3·4	c,orR	op	oP,r,c	c	c,or,pc,c	I	K	9	8	Ci/Cb/Fs	Ci/Ac/Cb/Fs	W/E	W/ESE	0·15	0·10	1	1	2·0	21
132·0	5·5	c,bc	bc	bcP,c,otir	oir	c,oirTLR	K	I	4	9	Ac/Cu	As/Cb/Fs	NW/NE	?/ENE	0·08	0·86	1	1	4·1	22
184·8	7·7	oiRr	ojp	c,bcp,z	bcz	bcz,cp,bc	I	J	9	5	Ac/Cb/Fs	Ac/Cu/Cb	?/ENE	W/E	Trace	0·05	2	1	4·0	23
206·4	8·6	c,op,bc	bc	bc,p	bc	bcp,b,cp	K	L	6	6	Cs/Ac/Cu	Sc/Cb	?/E/E	N.E.	0·03	0·06	1	0	8·5	24
168·0	7·0	cp,bc	bcjp	bcz	bc	bc,c	J	L	6	4	Cu/Cb	Cu/Cb	ENN	E.	..	Trace	0	0	9·7	25
175·2	7·3	cp,bc	c	c,bc,b	b	bc,c,oirRq	L	K	7	3	Cu/Cb	Cu	E.	E.	..	0·80	0	0	8·2	26
331·2	13·8	oirR,c	c	c,bc	bc	bc,b	K	K	8	6	Sc/Cu	Ac/Cu	E.S.E.	?/ESE	..	Trace	1	1	7·4	27
297·6	12·4	b,bc,c	c	c,o	o	o	K	K	7	8	Ac/Sc/Cu/Cb	Sc/Cu	?/E	E.S.E.	..	0·01	0	0	0·8	28
259·2	10·8	opc,bc	bc	bc,c	c	c,bc	M	M	6	8	Ac/Cu	Cu	WSW/E	E.	..	..	0	0	7·6	29
237·6	9·9	bc	bc	c,bc	c	bc,c,o	M	L	6	8	Ci/Cu	Ci/Cu	?/ESE	?/SE	..	..	0	0	7·4	30
5537·8	2307	....	...	....	.	....	..	..	179	187	.....	.....	....	....	0·58	4·52	..	..	189·5	Totals
184·6	7·7	....	...	....	...	....	..	..	6·0	6·2	.....	.....	....	....	..	..	..	..	6·3	Means

CLOUD AMOUNT.

Number of cases of total cloud amount of:—

Hour.	0	1/3	4/6	7/9	10
8 a.m.	0	6	10	12	2
2 p.m.	0	6	9	12	3

WIND SUMMARY—No. OF OBSERVATIONS OF.

	Force 8 or more.	4/7.	1/3.	Calms.	N.N.W.	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.
8 a.m.	0	6	18	6	0	1	2	1	4	7	3	5	1	0	0	0	0	0	0	0
2 p.m.	0	19	11	0	0	0	0	2	3	4	12	7	1	1	0	0	0	0	0	0
Total	0	25	29	6	0	1	2	3	7	11	15	12	2	1	0	0	0	0	0	0

Wind—Total miles 5537·8; mean velocity 7·7 m.p.h.; maximum velocity 28 m.p.h. on 26th and 28th.

WEATHER DIARY—NOVEMBER, 1940

Date.

1. Overcast all day; light to moderate rain to 1100, then occasional thin drizzle. Gentle to light E.S.E. to S.E. winds veering S.E. to S. after 0900, becoming gentle to moderate with fresh squall at 1450 (26 m.p.h.). Rain 1500 to 1540 and 1835 to 1905.
2. Overcast with rain at first, but cloudy to overcast after about 0500. Gentle to moderate S.E. to E.S.E. winds with occasional fresh gusts during the day. Calm 2320. Sky cleared about 2030. Cloudless at times.
3. Calm early and dew, clear to cloudless all day becoming overcast with Sc. about 1730, clearing later at night. Light E'ly breeze 0806, increasing force 3/4 veering E.S.E. 1000, falling off 1500. Calm 2048.
4. Fine and clear to half cloudy during the day becoming overcast about 1330. Variable airs to calm at first. Light S.S.W. breeze 0826 increasing to gentle breeze, backing S.S.E. 1150 and to E.S.E. 1700 falling off. Calm 2040 and sky cleared. Dew at night.
5. Variable airs to calm early, fine and clear to cloudless. Half to three-quarter cloudy during the day and slight haze during the afternoon and threatening appearance of sky at times. Light S'ly breeze 1000, backing S.E.xE. force 3/4 1200.
6. Light E.S.E. breeze at first becoming variable to calm 0305. Cloudy to overcast and showers 0555 to 0710 and 2215 to 2230. Light to gentle E. to E.N.E. breeze 0808. Calm 1800.
7. Overcast early and calm. Showers 0050 to 0100. Very thin intermittent drizzle 0710 to 0810 and drizzle and rain 1010 to 1050. Light E.N.E. breeze 0628, calm at times. Gentle to moderate E.S.E. breeze 1210 falling off 1500, calm 1855. Heavy rain 1440 to 1520, then intermittent drizzle and rain to 1925, then fine and variable sky. Moderate thunderstorm 1530 to 1610.
8. Fine, calm and variable sky early, gradually clearing and becoming cloudy to overcast about 1330. Light S.S.W. breeze 0832, increasing force 3, backing S., and to S.E. 1410 force 2. Calm 1752. Drizzle and rain 1730 to 2010. Distant thunder 1430 to 1450. Sky cleared 2115 to cloudless at times.
9. Calm and clear sky early. Light to gentle S.S.E. breeze 0438 and half to three-quarter cloudy, haze developing later and wind falling off 1700. Half cloudy afternoon, becoming clear to cloudless at night.
10. Calm and half cloudy early becoming cloudy about 1030 and overcast 1600 sky becoming variable about 2015. Hazy conditions all day and light to gentle E.S.E. breeze from 0650.
11. Fine, half to three quarter cloudy, hazy and light E.S.E. breeze early, becoming gentle to moderate during the day, falling off 2100. Half cloudy after 0930, becoming cloudy to overcast about 1500.
12. Fine and half cloudy to cloudy early and calm. S.E'ly airs 0348 gradually increasing force 2/3, falling off 1700. Unusual visibility during the day. Sky cleared about 1500, cloudless at times, becoming half cloudy 2130. Very pretty sunset. Dew 1900.
13. Fine and cloudless to part cloudy all day, becoming half cloudy 1410 and cloudy 1730, clearing later. Calm early. Light E.N.E. to E'ly breeze 0720, increasing force 3, E.S.E. to S.E. 0920, and to force 3/4 1830.
14. Gentle S.E. to E.S.E. breeze all day, backing E'ly 2000, falling off 2040. Half cloudy early, mainly clear sky during the day, variable sky at night. Very pretty sunset.
15. N.E. airs to calm early, fine and half cloudy, becoming cloudy about 1930. Light E.N.E. breeze 0758, veering E. to E.S.E. increasing force 3/4 with some fresh gusts, falling off 2120, backing N.E.
16. Fine and half cloudy early, becoming cloudy about 0700. Light showers (trace) 0755 to 0840. N.E. to E.N.E. airs to calm at first, increasing force 3 1030, and to force 4/5 1140, falling off 1650. Half cloudy to clear sky after 1230. Pertty sunset.

Date.

17. Fine and clear to half cloudy during the morning, but mainly clear to cloudless after about 1200. Calm at first, light to gentle N.N.E. breeze 0605, increasing force 4 with fresh gusts from N.E., falling to force 2/3 1800.
18. Fine and clear to part cloudy all day with haze during the afternoon, sky becoming overcast with Sc. about 1700. N.N.E. airs at first, gradually increasing force 4 after 0600, veering N.E. 1025, falling off 1700.
19. Cloudy to overcast early with Ac. predominating. Half to three-quarters cloudy during the day, becoming overcast 1710 to about 2130. Variable E'ly airs 1010, increasing force 3/4 from E.S.E., falling off 1600, backing E.
20. E.N.E. airs to calm early. and cloudy to overcast, Light showers 0725 to 0800 and light to gentle N.E. to N.N.E. breeze, veering E.S.E. force 3/4 1058, gradually falling to force 2 after 1600. Cloudy during the day with Cs. predominating, becoming half cloudy about 1500, and overcast 2000. Very pretty sunset.
21. Overcast early and E.N.E. airs to calm. Wind boxed compass 0400 to 0700, then light to gentle E to S.E.xE., falling off 1810. Moderate to heavy rain 0455 to 0700, then light showers to 0830. Moderate to light rain 1040 to 1210 and 1445 to 1610, then occasional light showers to about 2010. Mainly cloudy to overcast all day but occasionally half cloudy.
22. Fine and clear sky early, calm and red sunrise. Light N.E'ly breeze 0625, becoming gentle to moderate, veering E. 1310, backing E.N.E. 1500, falling of 1600, calm 1710. Gentle E'ly breeze 1920, veering E.S.E. to S.E. 2040, increasing force 4/5 with some strong gusts; 2300 to 2346. Sky gradually cleared about 1045, Ac/As predominating. Heavy showers 0948 and 1100. Distant thunder 1320 to 1340, Intermittent rain 1345 to 1620 and from 2125, heavy at times. Severe thunderstorm 2230 to about midnight. Maximum wind velocity 27 m.p.h. from S.E.xE. at 2346.
23. Intermittent rain, fairly heavy at times, to 0645 and overcast, then improving conditions, sky mainly half to three-quarter cloudy, but light showers, trace at 0930, 1700 to 1730, and 1900 to 2030. Light to moderate E.S.E. to E'ly winds all day, occasionally backing N.E'ly. Hazy afternoon.
24. Cloudy early and light showers 0448 to 0615, then fine and variable sky. Gentle E.S.E. breeze backing E.N.E. 0515 force 2, veering E'ly 0740, increasing force 2 with modearte gusts. Showers 0940, 1410 to 1415, 1930, (trace) and 2348 to 2350. Wind backed N.E. 1245, falling off 1800. Clear to cloudless sky 2040 to about 2300.
25. Calm early; gentle E'ly breeze 0700, increasing force 4 0903, with fresh gusts. Variable sky all day, but mainly half cloudy.
26. Mainly cloudy early and moderate to gentle E'ly breeze. Light showers (trace) 0048, becoming part cloudy about 1200, covering 1730. Fresh breeze, gusty, after 1125, falling to force 3 1900 becoming squally 2100 to 2200. Light to heavy intermittent rain 2000 to 2330, Maximum wind velocity 28 m.p.h. from E.xS. at 1334.
27. Overcast early and light to heavy intermittent rain 0120 to 0450, becoming cloudy 0750, and variable sky later, mainly half cloudy, clearing at night. Light to gentle E.S.E'ly breeze early, becoming gusty force 3/5 0730, with some strong gusts, moderating 1710. Maximum wind velocity 26 m.p.h. from S.E. xE. at 1350.
28. Gentle to fresh E.S.E'ly breeze all day, with some strong gusts. Cloudy at first, becoming overcast about 0900. Maximum wind velocity 28 m.p.h. from S.E.xE. at 1400.
29. Gentle to fresh E'ly winds early, and overcast. Light shower 0000 to 0010. Calm 0500 to 0640, then moderate to strong gusty E'ly breeze, falling off 1800, freshening again 1910. Mainly half cloudy all day, variable sky at night. Maximum wind velocity 27 m.p.h. from E. at 1250.
30. Light to fresh gusty E'ly breeze at first, calm 0500. Gentle to fresh E.S.E. to E'ly breeze 0700, moderating 1500, falling off 2125. Variable sky all day, mainly cloudy, Ci and Cs predominating at times.

Suva, 3rd December, 1940.

G. B. NASMYTH,
Harbour Master.

Meteorological Observations

TAKEN AT SUVA, FIJI,

DURING DECEMBER, 1940.

Latitude, 18° 8′ South. Longitude, 178° 26′ East.

HOURS OF OBSERVATION.

(i) 8 a.m. or 2000 G.M.T. (ii) 2 p.m. or 0200 G.M.T.

Local Standard Time being 12 hours fast of Greenwich Mean Time.

Height of Cistern of Barometer above Mean Sea Level, 12 feet; Site of Rain gauge, 8 feet; Diameter of Rain-gauge, 8 inches. Height of other Instruments above ground:—Rim of Rain-gauge, 12 inches; Thermometers, 4 feet 6 inches; Sunshine Recorder, 3 feet 3 inches; Vane of Dine's Pressure Tube Anemometer, 48 feet 6 inches; Robinson Cup Anemometer (run of the wind pattern), 41 feet 6 inches

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Maximum Thermometer set at 8 h. Read at 8 h.

Minimum Thermometer set at 8 h. Read at 8 h.

Grass Min. Thermometer set at 16 h. Read at 8 h.

DECEMBER.

Day.	Attached thermometer and barometer as read in inches. I		Attached thermometer and barometer as read in inches. II		Air Pressure at Mean Sea Level in the Units of Measurement. I	Air Pressure at Mean Sea Level in the Units of Measurement. II	Temperature (degrees F.) In Screen. I Dry.	In Screen. I Wet.	In Screen. II Dry.	In Screen. II Wet.	In Screen. Maximum.	In Screen. Minimum.	In Open. Grass Min. Eve to Morn.	In Open. Max. in Sun. Black Bulb in vacuo.	In Ground. 1 foot.	In Ground. 4 feet.	Humidity. Dew Point I	Dew Point II	Vapour Pressure. I	Vapour Pressure. II	Percentage. I	Percentage. II	Wind Direction and Force (Beaufort Scale). I		Wind Direction and Force (Beaufort Scale). II	
							Tenths.				Whole Degrees.				Tenths.											
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	24	(25)	26
	°	"	°	"	"	"	°	°	°	°	°	°	°	°	°	°	°	°	mb.	mb.			Dir.	F	Dir.	F
1	79	30·086	81	30·059	29·898	29·866	77·0	71·4	82·4	71·4	84	68	65	151	79·4	79·0	68	65	23·9	21·0	75	56	E.S.E.	3	SEXE	3
2	78	30·063	81	30·044	29·878	29·851	79·0	72·2	83·0	73·8	84	71	65	144	80·0	79·0	68	70	23·7	24·7	70	63	E.S.E.	3	E.S.E.	3
3	79	30·060	79	30·016	29·872	29·828	77·8	73·0	77·0	74·0	80	71	69	101	80·0	79·1	71	73	25·5	27·3	79	86	EXN	3	S.E.	1
4	77	30·034	81	29·998	29·852	29·805	74·8	74·0	81·5	77·2	84	71	70	131	79·3	79·0	74	75	28·2	29·6	96	82	E.S.E.	2	EXS	4
5	79	30·000	79	29·940	29·812	29·752	78·4	76·6	78·4	75·8	80	74	72	107	79·8	79·0	75	74	29·8	29·0	92	88	E.S.E.	4	E.S.E.	4
6	78	30·000	79	29·964	29·815	29·776	78·2	76·2	77·8	76·2	81	74	73	101	79·1	79·0	75	76	29·8	30·5	91	93	E.	3	E.N.E.	3
7	78	30·034	80	30·014	29·849	29·824	78·2	75·2	78·2	76·0	81	74	72	110	79·2	79·2	74	75	28·3	29·8	86	90	E.N.E.	3	EXS	4
8	78	30·034	80	30·000	29·849	29·810	78·0	72·7	82·8	75·3	84	74	72	158	79·0	79·5	70	72	24·8	26·8	77	70	EXS	4	SEXE	4
9	78	29·972	77	29·924	29·787	29·742	76·9	72·0	75·8	75·0	78	75	71	110	79·5	79·0	69	75	24·6	29·2	78	96	E.	3	EXS	4
10	77	29·900	81	29·850	29·718	29·667	78·0	72·0	82·8	74·0	83	72	69	148	78·4	79·0	69	70	24·1	24·7	74	64	EXS	3	E.S.E.	4
11	79	29·925	81	29·896	29·737	29·703	79·0	72·0	82·3	73·5	84	72	69	145	79·0	78·8	68	68	23·7	23·7	70	64	E.S.E.	4	E.S.E.	5
12	79	29·964	82	29·925	29·776	29·728	78·0	72·2	84·1	75·3	85	73	71	151	79·4	78·5	69	71	24·1	25·7	75	65	E.S.E.	4	SEXE	4
13	79	29·993	82	29·976	29·805	29·779	78·0	73·0	82·9	74·9	85	73	72	140	79·9	78·5	71	71	25·5	26·1	78	67	EXS	5	EXS	4
14	80	29·984	81	29·940	28·794	29·747	79·2	75·0	80·0	76·2	82	76	72	139	80·2	78·7	73	74	27·9	28·9	82	83	E.	3	E.	4
15	79	29·972	81	29·952	29·784	29·759	78·5	76·1	82·8	77·2	86	74	73	141	80·0	78·9	76	75	30·1	29·8	89	77	E.	2	E.S.E.	3
16	80	29·962	82	29·948	29·772	29·751	79·2	76·0	81·4	75·8	84	76	74	121	80·0	78·9	75	73	29·3	27·7	86	77	E.	2	E.	4
17	80	30·004	79	29·992	29·814	29·804	77·0	75·0	74·9	74·5	79	76	74	98	80·2	78·8	74	74	28·8	28·9	91	98	EXS	4	EXS	2
18	78	30·048	79	30·030	29·863	29·842	77·2	77·0	77·0	75·0	81	72	70	94	79·1	79·0	77	74	31·7	28·8	99	91	EXS	3	E.	3
19	77	30·062	79	30·020	29·880	29·832	77·6	75·0	78·8	76·6	81	72	72	107	78·4	79·0	74	76	29·0	30·8	88	90	E.S.E.	2	S.E.	3
20	78	30·070	81	30·030	29·885	29·837	78·3	74·1	81·0	74·8	84	75	72	138	79·4	79·0	72	72	26·9	27·0	81	74	SEXE	3	E.S.E.	4
21	80	30·094	82	30·054	29·904	29·857	80·4	74·4	85·0	76·0	85	74	70	155	80·0	79·0	71	72	26·0	26·7	74	64	E.S.E.	3	E.S.E.	4
22	78	30·092	81	30·038	29·907	29·845	73·6	71·4	84·0	74·2	85	72	71	148	80·4	78·8	71	69	25·9	24·2	89	62	N.E.	1	SEXE	3
23	79	30·060	81	30·022	29·872	29·829	77·6	70·4	82·0	71·4	83	71	66	141	81·0	79·1	67	66	22·8	21·7	69	58	E.S.E.	2	S.E.	3
24	76	30·040	82	29·994	29·861	29·797	75·2	71·0	85·0	74·8	85	69	64	149	81·0	79·2	69	70	24·1	25·2	81	60	Calm	0	E.S.E.	3
25	80	30·043	83	30·020	29·853	29·821	80·8	73·9	85·8	76·0	86	72	67	149	82·0	79·4	71	71	25·6	26·2	71	62	E.	2	S.E.	3
26	81	30·090	82	30·036	29·897	29·839	78·4	72·0	80·7	74·5	82	71	70	145	82·5	79·8	68	72	23·5	27·0	72	74	SXE	4	S.S.W.	4
27	81	30·052	83	30·036	29·859	29·837	81·0	75·5	82·2	75·8	86	74	71	141	80·0	79·0	73	73	27·7	27·3	77	74	E.S.E.	2	S.E.	2
28	79	30·054	82	30·060	29·866	29·863	78·0	73·0	82·2	73·0	84	74	72	131	81·2	81·0	71	68	25·5	23·7	78	63	E.S.E.	4	E.S.E.	4
29	81	30·080	82	30·026	29·887	29·829	79·8	73·6	82·8	75·0	84	75	71	148	81·8	80·8	71	71	26·0	26·1	74	68	E.S.E.	4	E.S.E.	5
30	79	30·088	80	30·062	29·900	29·872	77·0	71·0	78·2	70·7	81	72	70	101	81·5	81·2	68	66	23·3	22·1	73	67	E.	3	E.S.E.	4
31	79	30·060	81	30·046	29·872	29·853	79·8	70·6	83·0	71·4	85	74	68	149	80·4	80·3	66	65	21·9	21·2	62	54	EXS	3	E.S.E.	4
Tls.	2443	930·920	2504	929·912	925·118	923·945	2419·9	2277·5	2515·8	2315·3	2576	2261	2177	4092	2481·1	2456·5	2208	2216	812·0	821·4	2477	2280	...	..	...	..
Mns	78·8	30·030	80·8	29·997	29·843	29·805	78·1	73·5	81·2	74·7	83·1	72·9	70·2	132·0	80·0	79·2	71·2	71·5	26·2	26·5	79·9	73·5	...	..	...	..

Temperature—
Daily Range: (Mean Max.—Mean Min.)—10·2°.
Greatest Range—16° on 1st and 24th.
Least Range—3° on 9th and 17th.
Mid Temperature: ½ (Max. + Min.)—78·0°.
Highest Maximum—86° on 15th, 25th and 27th.
Lowest Minimum—68° on 1st
Lowest Maximum—78° on 9th.
Highest Minimum—76° on 14th, 16th and 17th.
Lowest Grass Minimum—64° on 24th.

Humidity—
Greatest Humidity—99 per cent on 18th at 8 a.m.
Least Humidity—54 per cent on 31st at 2 p.m.

Air Pressure—
Highest Value at M.S.L.—29·907″ on 22nd at 8 a.m.
Lowest Value at M.S.L.—29 669″ on 10th at 2 p.m..

No. of Days of—
Rain— 25
Hail—0.
Thunderstorms—0.
Fog—0.
Gales (force 8 or more)—0.

Rainfall—
Total—17·04″ or 432·82 mm.
Average for 56 years 12·80″.
Difference from normal— + 4·24″.
Greatest fall in 24 hours—2·73″ or 69·34 mm on 3rd.
Total since 1st January—108·06″.

VISIBILITY SUMMARY—No. OF CASES OF.

Hour.	X	A	B	C	D	E	F	G	H	I	J	K	L	M
8 a.m.	0	0	0	0	0	0	1	0	1	7	11	6	3	2
2 p.m.	0	0	0	0	0	0	0	2	3	5	10	2	4	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—4½ miles, J—6¼ miles, K—12½ miles, L—18⅝ miles, M—31 miles.

DECEMBER.

Wind. Miles run for previous 24 hours.	Wind. Mean velocity.	Weather for 24 hours ending midnight. (Beaufort Letters). Before Obser'tion.	At time of Obser'tion.	Between Obser'tion hours.	At time of Obser'tion.	After Obser'tion.	Visibility.		Cloud. Amount (0–10).		Form.		Direction whence coming.		Amount of Rain. 6 hours during the day measured at 14h.	Amount of Rain. 18 hours measured next morning at 8h.	State of ground.		Sunshine (hours and tenths).	Day.
		I	I	I and II	II	II	I	II	I	II	I	II	I	II						
(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	44	45	(46)	
201·6	8·4	c,bc,o	o	o,c,bc	bc	c,bc,b	K	M	9	6	Sc/Cu	As/Cu	S.E.	WSW/ESE	..	0·02	0	0	7·2	1
172·8	7·2	b,cp	bc	bc,cp	c	c,oPpqirR	M	L	5	8	Sc/Cu	Cu/Cb	E.S.E.	E.	Trace	0·66	0	0	6·3	2
160·8	6·7	oirR,c	c	c,oirR	oir	oir	I	I	8	10	Sc/Cu/Cb	As/Ns	E.	?/ESE	0·62	2·11	1	1	1·1	3
158·4	6·6	oRR,irR	oiR	oiR,c,bc	ojp	c,bc,oidr	F	J	9	9	As/Ns/Fs	Cs/Sc/Cu/Cb	?/ESE	?/E	0·78	0·50	2	2	5·6	4
230·4	9·6	oir	ojp	oirdq	ojp	oRRq,idr	I	H	10	10	As/Ns/Fs	As/Ns/Fs	?/ESE	?/ESE	0·40	1·92	2	2	0·0	5
283·2	11·8	oidr	ojp	oirdq	odd	oidrq	H	H	10	10	As/Ns/Fs	As/Ns/Fs	?/E	?/E	0·21	2·13	2	2	0·1	6
247·2	10·3	oRRrq	ojp	oidr	ojp	oidr,RR	I	G	9	9	As/Ns/Fs	As/Sc/St	?/ENE	?/E	0·06	1·38	2	2	0·4	7
261·6	10·9	or,R,c	c	c,bc	c	c,op	I	I	8	7	Ci/Sc/Cu	Ci/Cu	?/E	?/E	..	0·01	2	1	7·7	8
256·8	10·7	op	o	oidrq	oir	oidq	J	I	10	10	As/Ns/St	As/Ns/Fs	?/E	?/E	0·17	0·02	1	1	0·0	9
199·2	8·3	oid	o	o,c,bc	bc	bcpq,Pc	J	J	9	5	Ac/Cu/St	Ci/Cu	WNW/E	?/ESE	..	0·06	1	0	4·6	10
199·2	8·3	c,bc	bc	bc,cpz	bcz	bcz,c,op	J	J	6	6	Cu/Cp	Cu	E.	E.	Trace	0·04	0	0	9·9	11
187·2	7·8	op,cz	oz	oz,c,bc	bcz	bcz,c,b,oir	J	J	9	5	Ac/Sc/St	Cu	?/ESE	S.E.	..	0·37	0	0	8·3	12
244·8	10·2	oirz	oz	oz,c,bc	bcz	bcz,c,b	J	J	9	6	Sc/St	Sc/Cu	E.S.E.	E.S.E.	..	..	1	0	9·4	13
252·0	10·5	bc,c,oz	oz	oz,bc	ojp	oirRq	J	I	9	9	Ac/Sc/Cu/St	Ns/St	—/E	E.	0·05	0·83	0	0	2·5	14
228·0	9·5	oir	o	o	o	bc,c,o	J	J	9	9	As/Sc	As/Cu/St	?/E	NW/E	..	0·04	1	1	3·0	15
283·2	11·8	op,c	oid	oid	oz	o	J	J	9	10	As/Sc/St	As/Sc/St	?/E	?/E	Trace	0·08	1	1	0·1	16
249·6	10·4	oid,rr	orr	oirRqrr	orr	oirRq	I	H	10	10	As/St	As/Ns/Fs	?/E	?/E	0·50	0·96	1	2	0·0	17
249·6	10·4	oir,rq	o	oird	oir	oir,rr	K	I	10	10	As/Sc/Cu	As/Ns/St	?/E	?/E	0·03	1·12	2	1	0·0	18
300·0	12·5	oirdq	o	oirq	oir	oird,cpq	J	G	10	9	As/Ns/St	Ac/Cb/Ns/St	?/E	?/SE	0·15	0·16	2	2	0·5	19
146·4	6·1	o,c	cjp	op,c	c	c,bc,b	K	K	7	8	Ci/Ac/Cb/Fn	Sc/Cb/Cu	?/?/ESE	E.S.E.	·005	..	1	1	5·7	20
206·4	8·6	b,bc	bc	bc,c	c	cp,bc,b	K	J	4	5	Cu	Cu	E.S.E.	S.E.	..	0·26	1	0	11·7	21
244·8	10·2	bc,c,odr,id	oid	o,c,bc	bc	bc,c,b	J	L	9	4	Sc	Cu	E.S.E.	E.S.E.	..	..	1	0	7·4	22
235·2	9·8	bc,c	c	bc,c	c	c	L	M	7	7	Sc	Sc	EXS	S.E.	..	..	0	0	5·9	23
151·2	6·3	bc,b	bv	bv	bv	bc,bc	M	M	1	2	Cu	Cu	E.S.E.	E.S.E.	..	0·02	0	0	10·5	24
136·8	5·7	cp,bc	bc	bc,b	b	b,bc,cp	K	M	5	1	Cu	Cu	E.S.E.	E.S.E.	..	Trace	0	0	12·1	25
223·2	9·3	bc	bc	c,bc,b	b	bc,c,oqir	L	M	4	2	Cu	Cu	S.	S.W.	..	0·35	0	0	9·6	26
232·8	9·7	o,c,bc	bc	bc,c	c	c,oiRr	J	L	5	8	Cu	Sc/Cu/Cb	E.S.E.	S.E.	Trace	0·46	1	0	8·1	27
261·6	10·9	oirR	ojp	op,c	c	c,bc,o	I	K	9	7	As/Sc/Cu	Ac/Sc/Cu	?/ESE	W/SE	0·03	0·04	1	1	3·4	28
273·6	11·4	op,c,bc	bc	bc,cp,o	c	cp,bc,o	K	J	6	8	Cu	As/Cu/Ns	E.S.E.	?/ESE	0·07	0·38	0	1	4·7	29
302·4	12·6	oPp	o	o	ojp	oc	I	J	10	10	As/Sc/St	As/Ns/Fs	?/E	?/SE	..	..	1	1	0·6	30
146·4	6·1	o,c,bc	bc	bc	bc	bc,b	L	L	4	4	Cu	Ci/Sc/Cu	E.S.E.	WNW/ESE	..	..	0	0	11·1	31
6926·4	288·6	....	...	....	...	....	..	..	239	224	.....	.....	....	....	3·12	13·92	..	..	157·5	Totals
223·4	9·3	....	...	....	...	....	..	..	7·7	7·2	.....	.....	....	....	..	..	..	..	5·1	Means

CLOUD AMOUNT.

Number of cases of total cloud amount.

Hour.	0	1/3	4/6	7/9	10
8 a.m.	0	1	8	15	7
2 p.m.	0	3	8	12	8

WIND SUMMARY—No. OF OBSERVATIONS OF.

	Force 8 or more.	4/7.	1/3.	Calms.	N.N.W.	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.
8 a.m.	0	9	21	1	0	0	0	1	1	14	12	1	0	1	0	0	0	0	0	0
2 p.m.	0	18	13	0	0	0	0	0	1	8	12	9	0	0	1	0	0	0	0	0
Total	0	27	34	1	0	0	0	1	2	22	24	10	0	1	1	0	0	0	0	0

Prevailing Direction, E.S.E.; 8h., E.; 14h., E.S.E Maximum velocity, 40 m.p.h. from E.x.S. at 1243 on 17th.

WEATHER DIARY—DECEMBER, 1940.

Date.

1. Calm early and variable sky mainly cloudy to overcast. Gentle E.S.E. breeze 0649, increasing force 3/4, falling to force 2/3, 1800. Clear to cloudless sky at night.
2. Light variable winds to calm early, gentle to moderate E.S.E. breeze 0710, backing E. to E.N.E. 1410. Cloudy and light showers 0250 to 0300. Variable sky during the day mainly cloudy, becoming overcast about 1500. Heavy to light showers and E.xN. squall (28 m.p.h.) 1715 to 1745. Light to heavy intermittent rain from 2225.
3. Variable winds early force 0/3, overcast and light to heavy intermittent rain to 0600 and 0838 to 1640. Light to moderate gusty N.E. to S.E. winds from 0740, calm at times. Moderate to light rain 2230. There was intermittent sunshine between 0645 and 1000, after which sky was completely overcast all day.
4. Heavy rain 0000 to 0300. Light to heavy intermittent rain 0525 to 0910, then three quarter to half cloudy to 1620 then becoming overcast. Intermittent rain and drizzle 1845 to 2110. Variable winds force 0/3 early increasing force 3/5 gusty, with strong gusts after 1800. Maximum wind velocity 32 m.p.h. from E.S.E. at 1912.
5. Overcast with intermittent rain and drizzle 0040 to 1425 and from 1630. Heavy rain 1425 to 1630. Gentle to fresh gusty E. to E.S.E. winds with occasional strong gusts and two high squalls of 36 m.p.h. from E. at 0842 and 1501.
6. Overcast with intermittent drizzle and rain all day and gentle E.N.E. to E. breeze with moderate gusts, increasing force 3/5 0820, with occasional squalls force 5/7, moderate 1600. Maximum wind velocity 31·5 m.p.h. from E. at 1500.
7. Gentle to fresh squally E. to N.E. winds early overcast and moderate to heavy rain about 0100 to 0530 and 1625 to 1730. Slight clearing about 0800. Intermittent drizzle and rain 1030 to 1435. Wind veered E. 1050 becoming very gusty force 4/6, backing E.N.E. 1620, moderating. Light to gentle breeze after 1800. Slight improvements in weather noticeable about 2030. Maximum wind velocity 32 m.p.h. from E. at 1511.
8. Overcast early, moderate rain 0035 to 0520, heavy rain 0354 to 0420, then mainly fine all day and half to three quarter cloudy, becoming overcast about 1530. Trace rain at 1800 and 2100. Moderate to strong gusty E. to E.S.E. winds all day, falling to force 2/3 2100. Maximum wind velocity 27 m.p.h. from E.S.E. at 1333.
9. Overcast all day and gentle E'ly breeze with ocacsional fresh to strong gusts and squalls, backing E.N.E. to N.E. 0915 to 1320. Intermittent rain and drizzle 0935 to 1310, then very thin occasional drizzle to about 2230. Maximum wind velocity 27 m.p.h. from E. at 1639.
10. Overcast early with slight drizzle about 0500, becoming cloudy to half cloudy about 1130. Trace rain 1600. Showers 2325 to 2355. Light E'ly breeze at first backing N.N.E. veering E'ly 0630 force 2/3, becoming moderate to fresh gusty E. to E.S.E. 1100 with some strong squalls after 1600. Maximum wind velocity 33 m.p.h. from E.S.E. at 1644.
11. Fine and cloudy to half cloudy all day becoming cloudy to overcast about 1630. Showers 1700 to 1710 and 1840 to 1845. Gentle to moderate E. to E.S.E. breeze at first, becoming gusty and squally force 4/6 after 1000. Maximum wind velocity 28 m.p.h. from E.S.E. at 1780. Slight haze.
12. Gentle to fresh E.S.E. breeze early and cloudy to overcast, showers 0008 to 0028, becoming half cloudy 0920 and wind falling gradually to force 1/2 after 1500, backing E.N.E. 2200. Variable sky at night, clear occasionally, intermittent rain from 2220. Hazy. Lunar corona 2010.
13. Overcast early, with moderate to fresh E'ly breeze gradually falling to force 2/3 after 1500, and intermittent rain to 0400. Sky half to quarter cloudy after 0850 and hazy. Variable sky at night. Clear at times. Maximum wind velocity 28 m.p.h. from E.xS. at 0851.
14. Light to gentle E'ly breeze early and half cloudy, becoming cloudy to overcast about 0730. Hazy. Showers 0840 to 1210. Intermittent rain from 1520. Moderate to fresh breeze 0845 with some strong gusts and squalls falling to force 2/3 1700, occasionally backing E.N.E. after 1500, becoming squally 2200 to 2300. Maximum wind velocity 26 m.p.h. from E.xN. at 2247.
15. Overcast and intermittent rain to 0200, then fine and cloudy to overcast. Light to moderate E.S.E. to E'ly winds. Variable sky after 1430. Mainly overcast night.

Date.

16. Light to gentle E. to E.N.E. winds early and cloudy to overcast. Showers 0050 to 0100. Thin intermittent drizzle 0752 to 0805. Gentle to moderate E. breeze after 0900 with some fresh gusts and overcast.
17. Overcast all day. Intermittent drizzle and light rain from 0000, increasing to moderate to heavy rain 1030. Gentle to moderate E.xS. winds at first, becoming squally E.S.E. to N.E. after 1240. Maximum wind velocity 40 m.p.h. from ExS at 1243.
18. Overcast all day. Intermittent rain to 0030. Rain 0530 to 0600. Gentle E.S.E. to E.N.E. winds with occasional squalls. Intermittent rain and thin drizzle 0845 to 1050 and 1340, increasing to moderate rain 1503 to 2400.
19. Overcast with intermittent drizzle and rain to 0530, moderate E.S.E. breeze with fresh squalls 0338 to 0055, falling off 0352. Calm 0500. Light to gentle E. to S.E. winds from 0610 with occasional moderate to fresh squalls. Intermittent rain and drizzle 0820 to 1900. Showers 2300 to 2305. Slight clearing 1500 to 1700. Maximum wind velocity 28 m.p.h. from E.S.E. at 0842.
20. Fine, cloudy to overcast early and gentle E.S.E. to S.E. winds becoming gentle to fresh 0940, gentle breeze after 1700. Showers 0830 to 0925 and rainbow then fine and cloudy sky clearing 2015.
21 Fine, clear to half cloudy early, and light to gentle E.S.E. winds Variable sky during the day. Trace rain at 1930, then sky cleared. Moderate breeze after 0900 falling to force 2/3 1700.
22. Light to gentle E.S.E. breeze at first, becoming variable 0500 force 0/2. Overcast with rain and drizzle 0440 to 0640 then thin intermittent drizzle to 0800. Sky gradually cleared to half cloudy after 1000. Cloudless at times at night. Light to gentle S.E. winds 1020, falling to force 1 2030. Calm 2340.
23. Fine, half cloudy to cloudy early and calm. Mainly cloudy all day and night with Sc. predominating. Gentle S.E'ly breeze 0900, gradually falling off after 1600, backing to N'ly airs to calm 2030.
24. Fine and clear sky all day and unusual visibility. N'ly airs to calm early. Light E.S.E. breeze 0905, increasing force 3 1200, falling off 1600. N'ly airs to calm after 0830. Variable sky at night, mainly clear.
25. Variable airs to calm early. Showers at 0112, then fine and half cloudy to clear all day. Light E'ly breeze 0730, then gentle, E.S.E. to S.S.E. with occasional moderate gusts. Variable sky at night and trace rain at 2015.
26. Fine and clear to cloudy up to 1650 then overcast with intermittent rain 1720 to 2245. Gentle to moderate S.E. breeze early, gradually veering S. and to S.S.W., becoming squally and variable after 1700 backing S.E. Calm 2045.
27. Light E.S.E. breeze early, increasing force 2/3, freshening 2000 Variable sky all day, but mainly half cloudy, becoming cloudy to overcast about 1800. Heavy to light intermittent rain 1950 to 2020 and from 2300. Maximum wind velocity 29 m.p.h. from E.S.E. at 2302.
28. Gentle to fresh gusty E.S.E. to E. winds overcast and intermittent rain to 0435. Showers 0812 to 0820, then fine and mainly cloudy. Gentle to moderate breeze after 1700. Maximum wind velocity 30 m.p.h. from E.xS. at 0212.
29. Cloudy early and showers at 0100, 0345, 0915 to 0935, 1112 to 1152, and 1456 to 1550. Light to moderate E. to E.S.E. winds at first, becoming moderate to strong 0900. Half cloudy at times during the day, mainly overcast at night. Maximum wind velocity 32 m.p.h. from E.S.E. at 1924.
30. Overcast all day and night, with As. predominating, and gentle to moderate E.S.E. to E. winds. Heavy showers 0320 to 0520. Rainbow 1845.
31. Fine and quarter to half cloudy all day. Light to gentle E'ly breeze at first, moderate breeze during the day, gradually falling off after 1800. Calm 2330. Cloudless at times at night.

ADDITIONAL NOTES.

A rather wet month, particularly from 2nd to 7th and 14th to 21st, and fairly cool, rainfall being 4·24" in excess of normal and mean temperature 0·9° below the average.

Mean Pressure at 8 a.m. 0·022" above normal.

G. B. NASYMTH,
Harbour Master.

Suva, 2nd January, 1941.

Crown Agents