



Wollong Station.

METEOROLOGICAL OBSERVING BOOK

For the Year 1898.

January

1898.

5723-96

St 3103

Date	1	2	3	4	5	6	7	8	9
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	Not up to 100°								
Barometer	during January								
Dry Bulb									
Wet Bulb									
Maximum	88.2	98.1	78.9	79.5	77.5	91.4	73.9	81.2	91.0
Minimum	68.3	67.5	40.2	67.3	63.5	65.1	59.3	58.8	60.0
Rain	0.04	0.50	0.02	0.01	0	0.15	0	0	0
Evaporation—Amount									
Direction of Wind	N.W.	S.	S.E.	E.S.E.	-	S.S.E.	E.N.E.	NNW	E.S.E.
Force—0 to 6	3	1	1	2	0	3	2	1	2
Cloud—0 to 10	7	10	9	10	1	9	3	1	9

Remarks	<p>Cirrus - Stratus going over from W. Before noon stormy breeze to rise in W. and at 2.40 p.m. a storm came up with strong wind + heavy rain not very loud thunder at 8 p.m. another one came up from S.E.</p> <p>heavy rains. Then at 9.30 a 'southerly' rose</p>	<p>Overcast with scud from S. A calm grey day.</p>	<p>Cirrus - stratus, behind scud from S. A fairly strong breeze blew all day from S.E. + some thunder stormy (faint) sound from W. A little shower fell about 4 a.m. from a westerly through</p>	<p>Stratus from S.E. Looks very rainy. A light shower fell very early. The clouds all cleared off in the evening.</p>	<p>Fog - clouds. Thunder clouds rose before noon, + several dry ones passed over during the afternoon. A southerly came up, 3 p.m. Heavy showers fell in the evening from S. Y. strong S. wind.</p>	<p>Strato - cirrus from S.</p>	<p>Strato - cirrus from E.</p>	<p>Feathery clouds from N.W. The clouds thickened all day.</p>	<p>Thin clouds from N.W. + seeds coming up from S.E. Rather heavy rain fell in the night from S.E.</p>
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January

(continued.) '98.

5723-96

St 3109

Date	10	11	12	13	14	15	16	17	18
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	Not up to 100								
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	74.8	78.5	82.4	95.0	84.0	86.9	82.0	75.0	73.2
Minimum	64.8	68.1	64.4	43.0	64.2	71.0	70.5	63.6	57.5
Rain	0.07	0	8	0.89	0.47	0	0.42	0.03	0
Evaporation—Amount									
Direction of Wind	E.S.E.	N.E.	N.E.	E.N.E.	E.S.E.	E.N.E.	E.S.E.	-	N.E.
Force—0 to 6	3	2	2	2	2	2	2	0	2
Cloud—0 to 10	9	7	2	10	10	10	10	9	8

Remarks	showers coming up from S.E.	Thin clouds behind clouds from N.E.	Cumuli from E. Thunder storm rose at noon, & kept about all the evening.	Seems as if storms were coming up. Heavy rain fell after at 9:15 a.m. Very thick. Heavy rain came up in a wall from W. No thunder or wind. Lasted 10 min. 33 points fell. Another storm came a little later. Light rain fell. Cleared off at noon.	Thick strato-cumulus from S.E. Very smoky. The clouds broke up somewhat later in the day. Most sultry heat.	Thick strato-cumulus from E. Thunder-storm rose from W. at noon + a slow, quiet storm came up about 4 p.m. Heavy, steady rain fell for a long time with thunder but—no wind.	showers coming up from W. Light rain fell early of afternoon very light misty rain fell from S.	clouds coming up rather fast from S. strato-cumuli up high, + a great deal of smoke of about.	A few drops of rain fell about noon from S.E.	Cumulus moving rather slowly from N.E.
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January -

(continued.)

198.

5d 23-96
St 3109

Date	19	20	21	22	23	24	25	26	27
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	82.8	94.9	96.6	84.0	72.4	72.0	68.0	81.7	92.0
Minimum	60.1	69.1	66.5	58.0	58.1	62.2	70.0	66.8	69.0
Rain	0	0	0	1.45	0.20	0.18	1.94	1.30	0
Evaporation—Amount									
Direction of Wind	N.W.	N.W.	S.E.	S.W.	S.	S.E.	S.E.	W.N.W.	S.S.E.
Force—0 to 6	2	2	2	3	3	3	1	2	3
Cloud—0 to 10	0	0	7	4	5	10	7	2	10

The temperature of the day was cold—about 68°—while in the night it fell to 70° and calmed, it went higher!

Remarks	A thick haze covering the sky. Thunder clouds rose + passed off in the evening.	Hazy. Thick fog just cleared. Thunder clouds went round in the afternoon. A southerly came up at midnight.	Cumulus from S. Cirro-cumulus behind. Thunder clouds rose before noon + at 2:40 p.m. heavy thick rain with some hail, fell—heaviest lasting 10 min. The storm was from S.W. while a strong wind was blowing from S.E. Other	"S.E. bank" along horizon + clouds from S. A rather strong wind blew all day from S. + at 6:30 p.m. heavy showers came up, + light rain continued fitfully thro' the night.	Cumulo-cirrus from S. + some showers gone over from them. Light rain fell at different times in the day. Rather strong wind. Cold.	Thin cloud, like S.W. rain cloud, + seeds moving fast from S.S.E. Cold. Heavy, steady rain fell all day from S. The wind increased to a gale + blew wildly all the afternoon, abating a little in the evening + quite calming down before morning. Lightning was seen in the evening.	Showers rising in E. + heavy clouds overgathering. Thunder storms rose in W. early, + at 11:30 a.m. light rain began; then at 11:50, very heavy rain came up + continued for an hour + grew lighter + in 1/2 an hour ceased. Almost no wind or thunder. No more storms rose afterwards.	Soft light cumulus from W. A most brilliant morning. A light sea breeze rose in the afternoon, + brought up clouds in the night.	A 'greg' morning. Mist or showers on the hills. Light showers fell at times thro' the day.
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120

January - (continued) February - 1898.

57 23-96
St 3109

Date	28	29	30	31	1	2	3	4	5
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	74.0	76.4	83.1	82.9	78.4	76.0	75.3	74.6	84.4
Minimum	65.2	55.9	60.8	63.1	64.4	66.4	60.9	61.0	65.8
Rain	0.06	0	0	0	0	0.01	0	0	0
Evaporation—Amount									
Direction of Wind	E.S.E.	N.E.	N.E.	E.S.E.	E.	S.E.	E.S.E.	E.N.E.	N.W.
Force—0 to 6	2	2	2	2	3	2	2	2	1
Cloud—0 to 10	8	7	1	8	9	9	9	2	7
Remarks	<p>strato-cumulus from E.S.E. A few little showers about noon.</p> <p>Cleared off bright about noon.</p>	<p>Cumulus from N.E.</p> <p>W. + scuds from N.E.</p> <p>A most lovely day.</p>	<p>Feathery clouds from W. + scuds from N.E.</p> <p>A most lovely day.</p>	<p>Cumulus from E.</p> <p>A little shower just gone over.</p> <p>Most light misty rain fell in the evening from S.E.</p> <p>And a light shower fell in the night.</p>	<p>Cumulus from E.</p> <p>Cumulus from E.</p> <p>Cumulus moving slowly from N.E. with thin clouds behind.</p>	<p>scuds moving fast from N.E. + feathery clouds behind.</p>	<p>Thin clouds from W. passing off, apparently.</p> <p>A strange white haze came up all round but mostly in the S. + covered the sky at 4.30 p.m. At 8.30, a southerly came up.</p>		

Did not reach 100° during February.

Rain 694

February

(continued.)

1898.

52 23-96
St 5103

Date	6	7	8	9	10	11	12	13	14
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	94.0	78.0	73.8	88.6	96.0	76.2	80.8	78.9	76.2
Minimum	64.8	62.0	56.0	62.0	68.8	65.0	69.3	68.0	66.8
Rain	0	0	0	0	0	0	8	4.12	1.53
Evaporation—Amount									
Direction of Wind	—	S.S.W	—	N.W.	E.S.E.	E.S.E.	S.E.	E.S.E.	N.N.W.
Force—0 to 6	0	2	0	2	1	2	1	1	1
Cloud—0 to 10	10	4	0	0	10	9	10	10	9
Remarks	<p>A grey morning. Thick smoke. The clouds cleared quite off a little past noon. (The smoke also cleared a little), but the wind freshened again in the evening & brought up more smoke.</p>	<p>Cumulus coming up rather fast from S.</p>	<p>Fog early. Rather hazy.</p>	<p>Hazy. Small, light cirro-cumulus rose at 8.45 p.m. from S.W. & at 9.5 & rather strong wind rose from there.</p>	<p>Overcast from S. & very smoky.</p>	<p>Thin clouds with seeds from N.E. moving slowly this side.</p>	<p>Cirro-stratus from W. Very light rain began at 1 p.m. & continued steadily all the afternoon most gradually growing heavier. The breeze kept up from E. the whole time this the rain was evidently from W. At about 9.30 p.m. there was a change,</p>	<p>Heavy, thick rain falling. The rain continued heavily all the forenoon, but it grew lighter till about 5.30 when it ceased altogether. No wind to speak of, the breeze cleared from W. in the evening.</p>	<p>Nimbus in N.N.W. Cirro-stratus from N. apparently & thunder clouds rising in W. Light showers fell thru the day, like little storms, mostly from N.W. No wind to speak of, all day.</p>

February

(continued)

1898.

5d 23-96

St 3109

Date	13	14	14	18	19	20	21	22	23
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	78.9	86.2	91.2	67.0	72.0	73.0	75.6	78.2	76.9
Minimum	66.5	65.1	67.0	61.6	61.0	62.0	57.2	63.6	63.1
Rain	0.14	0	0	0.02	0.02	0	0	0	0
Evaporation—Amount									
Direction of Wind	N.W.	N.W.	S.E.	S.S.E.	E.S.E.	E.	E.S.E.	E.S.E.	S.E.
Force—0 to 6	3	2	3	3	1	2	2	2	2
Cloud—0 to 10	7	1	10	9	9	9	8	9	7
Remarks	Great soft clouds moving over fast from W.N.W. Clouds cleared off in the evening.	Strato-cirrus from W.	Lightest misty rain falling from S.E. At 3 a.m., this change came up. Strong wind. It continued showery all day. Very cold wind in the evening.	Stratus from S. A light shower fell in the night.	Stratus from E.	Cirro-cumulus from E. A most lovely day and evening.	Strato-cumulus from E.	Stratus from S.E. Misty showers on the hills. A cool breezy day.	Strato-cirrus from E.

February - (con. - tinned.) March - 1898 5d 23-96
St 3109

Date	24	25 ^o	26	27	28	1	2	3	4
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	74.6	79.9	83.1	83.1	76.2	86.8	89.5	84.6	72.0
Minimum	66.1	60.5	56.7	59.5	59.4	62.6	67.4	68.3	64.3
Rain	0.01	0	0	0	0	0	0	0	0.01
Evaporation—Amount									
Direction of Wind	E.	N.N.E.	N.E.	E.N.E.	E.N.E.	N.N.W.	—	E.S.E.	E.S.E.
Force—0 to 6	2	2	1	2	2	2	0	3	2
Cloud—0 to 10	4	3	2	5 ^o	4	6	1	10	10
Remarks	Cumulo-nimbus from E. A little shower fell early from E.	Cumulus from N.E.	Feathery clouds from W., or small scuds from N.E. A beautiful day.	Some feathery clouds & scuds moving pretty fast from E.N.E.	Feathery clouds from W.	Feathery clouds from W. A strong N.W. wind blew all the forenoon & brought up clouds. Lightning in the evening.	Strato-cirrus from W. A southerly came up in the night. A little rain fell.	Heavy clouds from S.E. A shower fell at 4 p.m. from S.E.	Stratus from E.

Rain
585.

March

(continued) 1898.

5d 23-96
St 3109

Date	5	6	7	8	9	10	11	12	13
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	74.4	76.8	74.8	74.1	75.5	75.8	81.3	79.2	78.3
Minimum	54.4	55.1	61.6	64.3	59.0	53.3	61.1	63.1	55.6
Rain	0	0	0.05	0.17	0.88	0	0	0	0
Evaporation—Amount									
Direction of Wind	E.S.E.	E.S.E.	E.	E.	<i>blow from the day in Stratus</i>	N.N.W.	W.	E.S.E.	N.N.W.
Force—0 to 6	3	2	2	3		2	1	2	1
Cloud—0 to 10	4	9	9	8		1	8	4	3
Remarks	Cumulus from E. A most lovely morning.	Strato-cumulus from S.E. A shower fell in the night, from S.E. apparently from W. as at sunrise there were thin clouds going down ... the E. some passing over rather fast, from W.	Stratus from E.—some showers rising. Light showers began before noon from S.E. Cleared at 6 p.m. then came up again in the night.	Stratus from E. Light showers fell thro' the day.	A little shower fell from S.E. before 9 a.m., but then all rain cleared off & it was a most lovely day.	Cumulus.	"S.E. Bank" along horizon rose in the night. The Bank went down again about noon. A fresh sea breeze blew most of the day.	Strato-cumulus from S.E. Thin clouds rose from W. during the day, but cleared off again in the night.	Cirro-stratus from W. moving rather fast.

March

(continued) 1898.

Date	14	15	16	17	18	19	20	21	22
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	89.4	84.7	72.1	82.5	72.5	85.0	75.5	82.3	66.9
Minimum	61.9	55.1	45.2	64.2	63.8	65.0	61.0	62.0	59.0
Rain	0	0	0	0	0	1.41	0	0.12	0
Evaporation—Amount									
Direction of Wind	N.N.W.	W.	W.	S.E.	N.W.	S.E.	W.	S.E.	S.E.
Force—0 to 6	2	2	2	2	2	2	1	4	1
Cloud—0 to 10	9	3	0	10	3	9	5	4	10

Remarks

<p>Cirrus-stratus from W. clearing off, apparently.</p> <p>A strong N.W. wind blew all day, & the thin clouds kept about thro' the night; in spite of which it turned so cold.</p>	<p>Thin clouds from W. The clouds all went off in the night.</p> <p>A sea breeze rose about 3.30 p.m. but no clouds rose till some time in the night.</p>	<p>Bright & clear.</p> <p>A sea breeze rose about 3.30 p.m. but no clouds rose till some time in the night.</p>	<p>Strato-cumulus from S.E.</p> <p>It looked quite rainy all the forenoon.</p> <p>Heavy rain fell in the night, preceded by a rather strong wind & some loud thunder.</p> <p>Direction is uncertain. A strong sea breeze blew, after</p>	<p>soft cumulus like fog-clouds, moving rather fast from N.W.</p> <p>Heavy rain fell in the night, preceded by a rather strong wind & some loud thunder.</p> <p>Direction is uncertain. A strong sea breeze blew, after</p>	<p>Nimbus from S.E.</p> <p>The clouds cleared off in the night.</p>	<p>Cirrus-cumulus from W.</p> <p>It began to look stormy in W. at noon & every light, quiet rain fell at times thro' the afternoon & evening. A little lightning was seen.</p>	<p>Line of heavy sickly hills & lightest misty showers there.</p> <p>The "Bunk" first showed at 9 a.m. & the wind rose soon after. Some every light showers fell during the day. The wind lulled in the evening.</p>	<p>Thick strato-cirrus from E.</p> <p>A little shower fell in the evening from S.E.</p>
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March

(continued)

1898

5d 23-96

St 3109

Date	23	24	25	26	27	28	29	30	31
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									Rain +39°
Wet Bulb									
Maximum	71.0	74.2	82.9	75.0	71.7	75.8	76.7	72.7	74.4
Minimum	58.0	54.0	56.9	63.1	62.8	60.2	59.3	61.2	55.6
Rain	0.01	0	0	1.20	0.83	0.02	0.18	0.28	0.02
Evaporation—Amount									
Direction of Wind	N.E.	—	S.E.	S.E.	E.	E.	E.	—	S.S.E.
Force—0 to 6	2	0	3	2	2	2	2	0	2
Cloud—0 to 10	5	1	8	9	7	7	7	9	8
Remarks	Strato-cirrus + Scuds moving fast from N.E.	Strato-cirrus. A most lovely day, brilliant starlight night.	Cumulus from S.E. None in the night. Light showers fell in the afternoon, & then in the night. Heavy rain fell from E.	showers coming up. Rather steady rain fell thro' the afternoon & night, from E.S.E. Very little wind.	strato-cumulus from E. Some light showers fell early, then all cleared off.	Stratus from E. A little rain fell early, & showers kept up all day from E.S.E. at rather long intervals, with a fairly strong wind.	strato-cirrus from E. Showers kept up about all day from E.S.E.	strato-cirrus from E. a few Light showers fell early, then all cleared off. It was a lovely night.	stratus from S.E. Some showers just gone now. No more showers fell all day. The wind kept up strong, & it was a fairly bright night.

April -

1898.

Date	1	2	3	4	5	6	7	8	9
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	72.2	72.6	76.1	79.1	72.9	69.9	73.1	78.6	76.5
Minimum	60.4	57.3	57.4	58.6	42.1	43.6	47.2	49.7	59.1
Rain	0	0	0	0	0	0	0	0	0
Evaporation—Amount									
Direction of Wind	S.	W.	—	W.N.W.	W.S.W.	—	—	W.N.W.	—
Force—0 to 6	3	2	0	3	2	0	0	1	0
Cloud—0 to 10	4	3	4	2	5	1	1	3	4
Remarks	<p>Cumulo- Cirrus from S.</p> <p>Cirrus rose from S.S.E. about noon & remained in the same position all the after.</p> <p>a gentle W.S.W. breeze all day & a breeze night</p>	<p>"S.E. Bank" in the form of cirrus, along S.E. horizon, & clouds rose up rather fast from S.</p> <p>The thin cloud in S.E. went down at noon, & it was the very low.</p> <p>day, with breeze</p>	<p>Thin clouds from W.</p> <p>The clouds kept about all day & night.</p>	<p>Small cirrus from W. & very thick gray haze, come over from W.</p> <p>The haze cleared off at noon, & it was a brilliantly clear night.</p>	<p>Strato- cirrus from W.</p> <p>The clouds thickened all day, & it was quite cloudy all the afternoon & evening.</p> <p>All cleared off in the night.</p>	<p>Feathery clouds from W.</p> <p>The clouds thickened again towards evening, & went off in the night.</p>	<p>Strato- cumulus from N.E.</p> <p>Day- dawn, 6.15. Loveliest moon- light morning.</p> <p>The N.E. clouds all went off by noon, & W. ones rose. A beautiful day.</p>	<p>Feathery clouds from N.W.</p> <p>A very light sea breeze rose blue all the afternoon & clouds came up at 6.45. A beautiful red sun- set.</p>	<p>Cumulus from S.E.</p> <p>A little, light- showers fell at 7 a.m.</p>

April -

(continued.) 1898.

Date	10	11	12	13	14	15	16	17	18
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	73.1	74.3	70.3	70.4	70.8	76.7	78.9	71.7	74.0
Minimum	49.9	62.1	58.1	56.2	48.4	50.3	54.0	47.3	57.9
Rain	0	0.03	0.09	0.02	0	0	0	0	0.10
Evaporation—Amount									
Direction of Wind	-	S.E.	E.	-	-	W.N.W.	N.W.	-	N.E.
Force—0 to 6	0	2	1	0	0	1	1	0	1
Cloud—0 to 10	0	4	3	6	0	0	3	9	0
Remarks	Thin clouds apparently coming from S. A most beautiful day. An E. breeze blew all day (light) Thin in the evening & blew rather strong from S. & brought up clouds & at 10.30 a shower fell.	Strato- cirrus from S.E. light showers fell in the evening.	Strato- cirrus from E.S.E. Some light showers fell early from S.E.	Strato- cumulus from S.E. The clouds cleared off in the evening. A brilliant starlight night.	Bright & clear. A lovely day & star- light night.	A few fog- clouds.	Fog- clouds & some fine cirrus from N.W.	Cirro- cumulus from N.E. A light sea breeze blew all the after- noon. Clouds like thunder- storms rose in W. before noon & a light shower fell in the afternoon & in the night Lightning was seen in the evening. Some Thunder	Clear. small cirro- cumulus from N.W. A most beautiful star-light night.

April - (continued.) '98.

Date	19	20	21	22	23	24	25	26	27	
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	
Attached Thermometer										
Barometer										
Dry Bulb										
Wet Bulb										
Maximum	76.6	76.7	76.0	64.2	66.9	70.2	72.9	73.0	74.2	
Minimum	46.9	45.2	53.2	41.3	43.6	50.1	48.5	44.8	48.3	
Rain	0	0	0.06	0	0	0	0	0	0	
Evaporation—Amount										
Direction of Wind	W.	N.W.	W.S.W.	N.W.	-	-	W.	-	W.	
Force—0 to 6	1	1	2	1	0	0	1	0	2	
Cloud—0 to 10	0	0	8	0	0	2	0	7	9	
Remarks	Bright + clear. A lovely day, + beautiful starlight nights.	Bright + clear. A bird of cirrus not really just like thin cloud rains in N.N.W. Small feathery clouds rose from N.W. before noon + a S. breeze blew all the afternoon bringing up clouds. Blue strong in the evening (from W.)	Cirro-cumulus from S. The clouds cleared off after noon (do not think it was at its worst) quite bright by 7 p.m.	Bright + clear. A most perfectly lovely day. Some small thin clouds rose from W. at noon + passed off.	The air is just stirring from S. Thin clouds rose from W. at noon.	Feathery clouds from W.	Fog - clouds. Thick fog this morning.	Feathery clouds from W. Quite a strong N.W. wind blew all day.	"Marie-tails" from W. Cleared off at noon.	

April - (continued)

May - 1898.

Date	28	29	30	1	2	3	4	5	6
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer			30.						
Dry Bulb									
Wet Bulb									
Maximum	71.8	71.5	74.0	73.0	69.5	63.3	67.9	67.4	63.8
Minimum	45.1	47.8	49.6	54.0	58.1	56.8	52.8	55.0	52.4
Rain	0	0	0	0	0.39	0.05	0.03	0.15	3.25
Evaporation—Amount									
Direction of Wind	-	-	S.W.	S.S.E.	S.E.	W.	S.W.	S.S.W.	S
Force—0 to 6	0	0	2	2	3	2	2	2	5
Cloud—0 to 10	1	0	2	9	8	9	8	9	10

Remarks	Scuds coming from E. The clouds kept about all day & it looked quite dark & rainy at times, but all clouds went off in the evening. The wind blew fresh from S. during the forenoon.	A little haze, but quite bright now. There was a thick fog till 8.15 a.m. A most beautiful bright day.	Long, thin clouds coming up in fan-shape from S.W. The wind blew rather fresh from S.E. all the afternoon. A very light little shower fell in the night.	Thin cloud, & scuds coming up from S. The wind blew strong all the forenoon, & light shower came up at 2.15 p.m. Rather heavy, steady rain fell all the evening & in to the night.	Thin cloud, & strato-cumulus from S. The wind has just got up again. Very light showers fell thro' the day, & in the evening.	Foggy clouds everywhere moving from S. One storm - cloud (thick white cirrus) in N.W. Light shower fell early, & during the afternoon. There was thunder. The rain all seemed to come from N.S.W. Rather strong S. wind all day. The Bank showing.	Very quiet, slow shower from W. or S.W. Heavy rain began at 10.15 a.m., seemingly from S.E. as the wind was from there; & it rained heavily till 11.30 then cleared off & an arch from N.E. - a real storm, with very little thunder. The S.E. wind kept up all the while, cold & rather strong. Very light showers fell in the afternoon. There was a great deal of thunder & lightning from S. & at mid-night there was a storm from there with heavy rain & rather loud thunder. Then after that the wind rose & it blew a great gale, & rained hard.	Very quiet, slow shower from W. or S.W. Heavy rain began at 10.15 a.m., seemingly from S.E. as the wind was from there; & it rained heavily till 11.30 then cleared off & an arch from N.E. - a real storm, with very little thunder. The S.E. wind kept up all the while, cold & rather strong. Very light showers fell in the afternoon. There was a great deal of thunder & lightning from S. & at mid-night there was a storm from there with heavy rain & rather loud thunder. Then after that the wind rose & it blew a great gale, & rained hard.	Heavy rain falling from S. The rain continued till a little past noon, growing much lighter to 4.30 then ceased, but the wind kept up strong, & about 4 p.m. there were a few gusts of terrific force & violence. The S. blew all night, the great force abating somewhat. Almost no more rain fell.
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May

(continued.) '98.

Date	7	8	9	10	11	12	13	14	15
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	56.5	59.7	61.2	60.9	58.2	59.6	60.9	60.3	63.2
Minimum	51.0	49.3	46.0	48.1	45.2	50.1	50.4	46.2	42.6
Rain	0.45	0	0	0	0	0.09	0.08	0.03	0
Evaporation—Amount									
Direction of Wind	S.S.W.	W.S.W.	W.S.W.	S.	W.S.W.	S.W.	S.S.W.	S.W.	W.N.W.
Force—0 to 6	4	3	2	1	2	3	3	2	1
Cloud—0 to 10	8	4	7	6	2	8	8	6	1
Remarks	This shower-clouds from S. Lightest rain shower fell most of the day from S.S.W. Strong wind kept all the time.	Cumulo-cirrus from S. Cirrus began to rise in N.W. before sunset. The strong S. wind kept up all day & kept the clouds about. Great roar in the S.	Strato-cumulus from S. & small, distant cirrus rising in W. The clouds kept above all day, & did above again in the evening, leaving a great roar tho' not so loud as previous evening.	S.E. Bank showing in the form of thick white cirrus & strato-cirrus above. The roar kept up all day - fairly strong S.W. wind.	S.E. Bank in the form of thin cirrus; cumulo-cirrus coming up from it. Rather heavy rain fell in the night.	Showers coming up from S. Showers fell during the day from W. S.S.W.	S. Westly looking showers rising. Showers fell at times during the day from S. It was a fairly bright evening.	Thin Bank showing, & cumulo-cirrus coming up. A few very light showers fell from S. during the afternoon - a good many white sand W. & N.W.	Thin Bank - very beautiful & a little strato-cirrus - partly foggy. Thin clouds began to rise from W. about noon, & towards evening the Bank was far out to sea. A most lovely day.

	May			(continued.)			'98.		
Date	16	17	18	19	20	21	22	23	24
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	65.8	65.6	62.9	61.0	63.0	63.7	61.1	65.9	66.85
Minimum	46.1	37.2	39.2	39.9	39.6	35.3	36.0	37.7	46.47
Rain	0	0	0	0	0	0	0	0	0
Evaporation—Amount									
Direction of Wind	—	—	W.	W.S.W.	N.W.	N.W.	N.W.	N.W.	W.
Force—0 to 6	0	0	2	3	2	2	1	3	3
Cloud—0 to 10	9	1	1	0	4	0	0	4	0
Remarks	<p>Cirrus & cirro-stratus from N.W. The air is just stirring from S.</p> <p>The clouds all cleared up, with a few drizzle rain & a few wind from N.W. at noon. Lightning was seen in E. & S. in the evening.</p>	<p>Feathery clouds rising from W. The wind changed a little more to S. of W. after noon (having got up from about 9.30 a.m.) A most lovely day.</p>	<p>Feathery clouds disappearing in E. - gone over from W. & small cumulus coming from W. The wind hardly changed any more to S. all day. A few clouds came up. There was light mist in the evening.</p>	<p>The wind has just got up. Bank show-ing. Feathery clouds began to rise after sunset, from W. The wind kept up rather strong all day from S.W. but the bank went quite down.</p>	<p>Feathery clouds from N.W. The clouds went off in the night. The wind changed to S.W. before noon & the bank rose.</p>	<p>Bright & clear. A most lovely bright day. Almost cloudless.</p>	<p>Very clear. Cirro-stratus from N.W. The wind blew very strong all day. A little shower fell in the night from a wind-storm. Wind changed more to W. in the night. Lightning in evening.</p>	<p>Cirro-stratus from W. Cold wind. Wind blew very strong & cold all day, not very much more to S. Lightning all round in evening. The only small clouds were seen all day.</p>	

May

(continued.)

June 5d 23-96
St 5109 1898.

Date	25	26	27	28	29	30	31	1	2
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer							Rain 466-		
Dry Bulb									
Wet Bulb									
Maximum	56.4	56.8	62.6	63.5	63.6	65.2	63.1	63.0	63.5
Minimum	34.6	41.5	36.1	36.1	41.1	41.8	46.5	39.0	43.7
Rain	0	0	0	0	0	0.86	0.08	0	0.01
Evaporation—Amount									
Direction of Wind	W.S.W.	W.N.W.	C	W.	W.	N.W.	N.N.W.	S.	W.S.W.
Force—0 to 6	3	1	0	0/1	1	2	1	2	1
Cloud—0 to 10	0	1	0	5	6	1	1	7	9
Remarks	<p>A few clouds visible along E. horizon. Cold wind.</p> <p>The wind grew less strong towards north, & in the evening the sea was roaring loudly. A most lovely day.</p> <p>Clouds came up from S. in evening & at 8 p.m. a little more.</p>	<p>Stratus cirrus, apparently from S.W.</p> <p>It clouded up, somewhat just after noon, from S., & thick was quite a little sea breeze.</p>	<p>Clear.</p> <p>Thin clouds began to rise ... W. about 3 p.m.</p> <p>A most perfectly lovely day.</p>	<p>Thin cloud from W.</p>	<p>Thick fog early. Fog cloud going off, & a cloud like the Bank in E.</p> <p>A strange every thin cloud covered the sky before noon & heavy masses of dark clouds went about all from S. apparently, & during the afternoon some showers fell. Large clouds.</p>	<p>Strato-cirrus, apparently from S.E. Thick fog early.</p> <p>The Bank hovered about all day, & it was rather cloudy.</p> <p>Rain fell in the night.</p>	<p>Cumulus coming up slowly from S.</p>	<p>Heavy, dark clouds all round the S. - Rainy looking. Thin clouds above - must be from W.</p> <p>Fery light showers fell during the day & night, from S. almost no wind.</p>	<p>Stratus from S.</p> <p>Showers fell during the day from E.N.E. Almost no wind.</p>

June (continued) 1908

Date	3	4	5	6	7	8	9	10	11
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	63.4	65.6	65.8	66.4	61.6	58.3	59.1	60.9	63.6
Minimum	45.0	47.0	44.9	43.4	51.7	52.0	49.2	49.1	47.8
Rain	0.04	0	0	0.03	0.35	1.15	0.15	0.01	0
Evaporation—Amount									
Direction of Wind	N.E.	-	-	W.N.W	S.	S.E.	S.W	-	N.W.
Force—0 to 6	1	0	0	1	1	3	1	0	3
Cloud—0 to 10	5	9	8	6	10	9	7	0	4
Remarks	Feathery clouds from W. & some fog clouds moving from N.E.	Cirro-stratus from W. seems to be just breaking up.	Strato-cumulus from S., & the 'Bank' showing. A shower fell at 10.30 a.m. & there were stormy clouds about all day from different quarters.	Cirro-cumulus + fog clouds & the 'Bank' showing. One rather heavy shower came up at 10.30 a.m. from S.E. & lasted a long time. There was thunder in the afternoon from different quarters, & showers were about.	Steady, rather light rain fell thro' the day & in the night from S.W. turning to the S.E. more towards evening. Very little wind.	Thin clouds & heavy dark scuds from S.E. Heavy showers, tho' of short duration, & accompanied by strong wind, fell thro' the day, from S.E.	The 'Bank' in the form of thin cirrus, & strato-cumulus moving up fast from S.	Very small thin clouds in S. They had gone round from W. plenty of thin clouds rose from W. before noon & were quite thick by sunset. Little drops of rain fell in the night.	Scuds moving fast from N.W. The wind blew fresh all day, but not very strong.

evening, & there was a great halo round the moon.

June

(continued)

'98.

5d 23-96

st 3109

Date	12	13	14	15	16	17	18	19	20
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	65.4	64.0	60.9	62.9	61.1	64.2	61.1	61.2	58.2
Minimum	41.2	38.0	38.1	48.0	51.5	49.6	42.7	45.9	47.2
Rain	0	0	0	0	0.03	0	0.01	0.04	0.08
Evaporation—Amount									
Direction of Wind	—	—	—	—	N.W.	N.W.	—	W.	S.E.
Force—0 to 6	0	0	0	0	4	2	0	1	2
Cloud—0 to 10	0	2	1	10	1	1	1	5	9
Remarks	Very clear The wind rose about 8:30 a.m. from W., & blew fairly strong; then clouds (cumulus) came up & it grew almost quite calm in the afternoon. <i>(A most lovely clear day.)</i>	Feathery clouds for tails W. & cirro-cumulus moving rather fast from N. A calm beautiful day. Some thin clouds came up in the night.	'Mare's-tails' from W. A light fog this morning. Thin clouds kept about all day.	Just begin-ning to rain from W.—very light rain. The rain stopped at noon & all the thin clouds went off, & a great deal of strato-cumulus went over all the rest of the day.	Beautiful cumuli moving fast from N.W. This wind rose very early. The wind blew a gale all day & kept up thro' the night, but lying about 5-3:30 a.m.	Cold-looking strato-cirrus moving a little up fast from W. S.W. Clouds came up from S about 8 p.m., & a little rain fell in the night.	Strato-cirrus from S. a little rain fell in the night from S.	Strato-cumulus from S.E. Light showers fell in the evening, from S.E. almost no wind.	Showers coming up from S.E. Heavy showers fell thro' the day & night from S.E. with a rather strong wind.

June -

Continued.

'98.

Date	21	22	23	24	25	26	27	28	29
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	58.4	59.3	57.7	58.7	59.1	58.5	57.0	58.0	58.5
Minimum	53.6	52.5	42.5	36.5	44.5	39.3	31.1	29.4	36.6
Rain	0.44	0.48	0.20	0.12	0.01	0	0	0	0.02
Evaporation—Amount									
Direction of Wind	E.S.E.	S.E.	W.	N.W.	W.	N.W.	W.	-	E.S.E.
Force—0 to 6	2	3	2	1	3	2	1	0	1
Cloud—0 to 10	10	10	5	4	1	0	1	0	9
Remarks	Thick clouds from S. Heavy showers fell thro' the day from S.E.	Clouds seem inclined to break a little. Showers fell from E.S.E. all the forenoon, & one very heavy one fell at 1.30 p.m. No more than the clouds	Stratus coming up from S. Rather heavy showers fell at some intervals till 2 p.m. when all rain ceased	Strato-cirrus, seems to be from W. Fog till 8 a.m. Heavy, dark clouds went over from W. at noon, & at 1.30 p.m., a little hail fell. Rather strong wind now of this. Shower at 2.30 p.m.	Cumulo-cirrus rising from W. The wind cold & blew rather strong all day.	Very clear. Cold wind. Featherly clouds rose from W. before sunset.	Featherly clouds from W. The clouds went away in the course of the day.	Very clear. a most bright, lovely day with a fresh W. breeze. At 4 p.m. little clouds appeared in W. & then it settled down for another great part, but clouds rose from W. some time in the night & rain fell.	Light rain fall. The clouds are like W. ones but seem to be clearing off from N.E. The rain ceased before 10 a.m. & the clouds passed off from W. at 3 p.m. but the wind persisted from S.W. Clouds began to come up from S. in evening & a little rain fell.

Date	June 30	July 1	2	3	4	5	6	7	8	
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	
Attached Thermometer										
Barometer	Rain									
Dry Bulb	35.3.									
Wet Bulb										
Maximum	56.2	55.0	56.8	59.0	62.2	58.9	58.0	58.4	60.6	
Minimum	42.1	48.0	47.1	38.1	35.0	34.1	33.0	34.1	32.6	
Rain	0.03	0.86	0.58	0.01						
Evaporation—Amount										
Direction of Wind	S.W.	S.W.	0	W.	N.W.	N.W.	—	—	—	
Force—0 to 6	2	3	0	1	1	2	0	0	0	
Cloud—0 to 10	9	8	5	1	8	1	0	1	0	
Remarks	Cold wind. Light rain falling from S.W. Clouds seem break- ing a little in S.E. Steady light rain fell all the forenoon, from S. The afternoon was pretty fine. Steady heavy rain fell in the night.	Shower coming up from S.W. + some feathery clouds visible. Steady heavy rain fell most of the day from S.S.W. Rather strong wind.	Strato-cumulus from S. light shower passing round. Some very light showers fell during the day from S.	Strato-cumulus from S.E. Feathery clouds rose from N.W. during the afternoon.	Feathery clouds from N.W.	Feathery clouds from N.W.	Clear. Thin cirro-cumulus rose in the night. S. in the evening, but passed off again	Strato-cirrus from W. Cumulus came from W.S.W. at noon but passed off at sunset.	Clear.	Clear.

July

1898.

Date	9	10	11	12	13	14	15	16	17
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	57.0	59.3	59.1	60.2	61.9	61.6	62.4	65.4	58.9
Minimum	30.3	32.0	33.2	35.0	32.2	29.3	30.1	39.3	45.1
Rain									0.17
Evaporation—Amount									
Direction of Wind	W.	W.-N.W.	W.	—	—	—	—	—	W.
Force—0 to 6	2	1	1	0	0	0	0	0	2
Cloud—0 to 10	0	0	0	0	0	0	0	9	10
Remarks	Clear. A sort of cumulo-cirrus from W.S.W. in the afternoon but passed off again in the night.	Clear.	Rather hazy. Thin clouds rose from N.W. about 10 a.m. & at 11:30 cumulo-cirrus rose from S., but all passed off from in the evening & there was a fog.	Hazy. A most beautiful day. A slight wind kept up from W. thro' the day.	Rather hazy. A cloudless day. The wind blew rather strong from N.W. all day.	Rather smoky. A perfectly cloudless day. The wind blew rather strong from N.W. all day.	Clear. The wind blew quite strong & mild from N.W. all day, keeping up late into the evening. Strato-cirrus bore at noon.	Cirro-stratus. Drops of rain fell thro' the day & the clouds broke away from W. but the breeze persisted from S.	Light, steady rain falling from S.W. Very cold. A great strong wind rose early & blew till 8 a.m. & the hills a little. The rain came heavily & steadily most of the day, with strong wind. Rain stopped awhile in evening & very cold.

(continued.)

'98.

	July			(continued.)						198.
Date	18	19	20	21	22	23	24	25	26	
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	
Attached Thermometer										
Barometer										
Dry Bulb										
Wet Bulb										
Maximum	50.1	56.2	58.9	58.2	55.6	58.2	53.6	60.9	60.3	
Minimum	45.0	44.2	30.2	29.1	37.7	41.0	45.8	32.8	35.2	
Rain	0.58	0.02			0	0	0.45			
Evaporation—Amount										
Direction of Wind	S.W.	W.S.W.	W.	W.N.W.	W.N.W.	W.N.W.	W.S.W.	—	N.W.	
Force—0 to 6	2	2	1	1	3	2	2	0	2	
Cloud—0 to 10	8	2	0	0	1	7	1	4	2	
Remarks	<p>Showers coming up from S. rather light & misty.</p> <p>Very light showers fell at times from S. The wind kept up strong all day.</p>	<p>Strato-cumulus from S.</p> <p>The band was showing in the evening.</p>	<p>Very clear.</p> <p>A light wind blew all day.</p>	<p>Very clear.</p> <p>A strong, very cold wind blew all day from W.N.W. keeping up all night just enough to prevent a severe frost. A very little rain fell about 10:30 a.m. from a wind-storm. No more up till noon afterwards.</p>	<p>Seeds rising in W.</p> <p>A great deal of seeds went over all day from W. in the night a little rain fell from a wild wind-storm very strong wind.</p>	<p>Feathery clouds from S.W. with some snowy-looking seeds from W.</p> <p>Seemed to change suddenly to S.W. at 10:15 a.m. the wind got into some cold from there. Light rain began at noon. Thunder all over. Rather heavy rain late in evening.</p>	<p>Seeds from S.</p> <p>Thin cloud rose from W.S.W. at 3 p.m.</p>	<p>Feathery clouds from W.</p> <p>Plenty of clouds went over all day.</p>	<p>Cirrus-stratus gone over from W.</p> <p>Very strong winds blew all day from N.W. & kept up thro' the night.</p>	

July -

(continued.) August. 1898.

5d 23-96

St 3109

Date	27	28	29	30	31	1	2	3	4
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer					Rain 267.				
Dry Bulb									
Wet Bulb									
Maximum	62.0	67.7	64.6	61.2	56.8	68.4	63.2	62.5	54.2
Minimum	46.9	46.4	34.4	38.2	45.2	41.3	37.2	43.2	38.2
Rain					0	0.38		0.22	0.06
Evaporation—Amount									
Direction of Wind	N.W.	N.N.W.	N.W.	N.	-	N.W.	N.W.	-	W.N.W.
Force—0 to 6	3	2	2	1	0	2	2	0	2
Cloud—0 to 10	0	3	1	10	6	0	0	9	1
Remarks	Very clear. Strong, mild wind blew all day & night.	Hazy. Cumulus coming over rather fast from N. Very strong wind kept up all day.	Hazy. Cumulus beginning to rise again. Thin clouds must have risen in the night.	Cirro-stratus from W. & clouds going from E. The clouds kept about all day, & quite a strong breeze blew in the evening from E.N.E.	Cirrus going off from N.W. The wind rose from N.W. about 10-30 a.m. & blew very strong all the afternoon just at noon. Thunder clouds rose in W. & small storm with thunder, wind, & heavy rain, followed each other in rapid succession until 7.30, when all clouds vanished.	Rather hazy. A lovely day. Rather strong wind.	Clear. At noon the wind veered to W.S.W. & some small storm clouds went over from W. (lightning in evening). at 3 p.m. this cloud began to rise from S.W., & by 8.45 had covered the sky. A strong wind arose from S.W. then a bit of light rain began & cleared to keep up till the night.	Thick cirrus - seems to be going off from S.E. Sea roaring. Light rain was falling at 8.30 a.m., but the clouds began to break at sunrise. Thunder-clouds gathered round S. at noon, & some showers fell during the afternoon. S. wind.	S.E. Bank very windy - looking small thin clouds round S.W. & W. A pretty lot of thin clouds rose from the during the day, & the bank went quite down, & W. breeze kept up well.

August

(continued.)

1898.

57 23-36

St 3109

Date	5	6	7	8	9	10	11	12	13
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	61.6	64.9	63.9	60.3	62.8	62.2	61.1	58.6	59.1
Minimum	41.4	36.3	45.9	45.0	45.1	43.7	47.7	48.1	35.5
Rain			0.13	0.13		0	0.13	0.32	
Evaporation—Amount									
Direction of Wind	W.N.W.	N.W.	—	W.	W.S.W.	W.	W.S.W.	—	—
Force—0 to 6	2	1	0	3	2	1	1	0	0
Cloud—0 to 10	1	0	10	1	1	7	9	8	3
Remarks	strato-cirrus rising from W.N.W.	Rather hazy. A very light, mild sea breeze rose about 10 a.m. & brought up a few clouds. In the afternoon, thin clouds rose from W., & it began to rain some time in the night.	Steady, light rain fell from W. The air is quite stirring from S.E. The misty clouds are moving east from N.W. Very light rain continued pretty steadily thro' the day, & in the evening the wind got up decidedly from N.W., & there was some small thunder about.	Small clouds rising from W. The bank was showing early, & kept about all day. Plenty of haze clouds (some cirrus-cirrus) kept pouring up all day from S., while the wind blew strong from W.N.W. the whole time.	The bank along horizon. Strato-cumulus kept pouring over all day from S.E.	strato-cumulus from S.S.E. A very little shower fell at 8:30 p.m.	Showers about, from S.E. Rather heavy showers very early. Shower fell all day, from S.E. Not very much wind.	Cirro-cumulus, with thin clouds behind. The clouds cleared off all day & it was quite fine in the evening.	The bank showing, strato-cumulus & clouds. Quite calm. The wind got up a little from S., about noon, & it was showery in the afternoon.

August

(continued.)

1898.

5d 23-96

St 3109

Date	14	15	16	17	18	19	20	21	22
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	60.1	63.8	64.1	67.7	56.0	60.8	59.6	65.3	65.3
Minimum	36.8	34.0	44.5	45.1	43.0	43.0	36.2	38.4	36.1
Rain				0		0.02			
Evaporation—Amount									
Direction of Wind	W.	N.W.	N.W.	S.E.	S.	W.	N.W.	—	—
Force—0 to 6	1	2	3	3	2	2	1	0	0
Cloud—0 to 10	1	1	8	2	1	2	1	1	0
Remarks	Fog-cloud Very clear. A most lovely day.	Strato- cirrus fm W.	Thin clouds from W. The wind increased to a gale & blew with very wild gusts till after noon when it calmed down & gradually ceased by sunset. Quantities of heavy clouds	Cumuli — seems to be moving from N. while a little appears to be rising from S.E. The same sort of clouds & the wind kept about all day.	Cumulo- cirrus coming up from S. & the bank showing A little shower fell in the night from S.	Cumulo- cirrus moving up from S. Loud roar, then A beautif day, with S. wind.	Strato- cirrus & clouds rising from S.E. A roar in S.E.	Fog- clouds. A most lovely day with N.E. breeze	Rather rainy. at fog, rather dry. The loveliest bright day, with light N.E. sea breeze which rose before noon.

Kept
pouring
over all day
from W. N. W.
& then at 4 p.m.
thick clouds
gathered in S.E.
& a wind rose
from there.

August -

(continued.)

'98.

52 23-96

St 3109

Date	23	24	25	26	27	28	29	30	31
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									Rain 350.
Dry Bulb									
Wet Bulb									
Maximum	65.3	65.3	63.1	65.1	67.9	69.0	72.2	74.9	64.6
Minimum	36.0	39.1	49.8	51.0	41.6	42.1	49.4	44.8	53.2
Rain			0.24	0.02				0.32	1.53
Evaporation—Amount									
Direction of Wind	-	E.N.E.	-	E.	N.W.	N.W.	N.W.	-	S.E.
Force—0 to 6	0	2	0	1	2	2	1	0	2
Cloud—0 to 10	1	7	8	8	9	1	9	10	10
Remarks	a fog. Small feathery clouds from W. or W.S.W. Roll in the night. N.E. breeze all day.	a fog. Feathery clouds — seem to be from W. — and foggy sea moving down fast from N.E.	Strato- cirrus, & some Scuds moving from E. In W., it looks like storms.	Feathery clouds, with strato- cirrus this side, & scud moving from N.E. The bank showing rather A strong sea breeze	Fog — lifting The bank keeping about. A light E.N.E. breeze blew all day.	Cirro- cumulus from W. Thunder clouds rose in W. at noon & at 4 p.m., heavy rain began from a S.W. storm, accompanied by hail & loud thunder, & lasting 10 min. Not much wind.	Cirro- stratus from W. Thunder clouds rose in W. at noon & at 4 p.m., heavy rain began from a S.W. storm, accompanied by hail & loud thunder, & lasting 10 min. Not much wind.	Thin cloud all over — very thin over head, & foggy scuds mov- ing slowly from E. Uncertain where they cloud from E. At 11 a.m. very heavy rain fell from a storm (thunder) uncertain Then about noon light steady rain set in from S.W. only light wind.	Rather thick light most steady rain falling from S.E. Not very cold. The wind seems scuds mov- ing in — inclined to rise. Very heavy, thick rain continued all day from S.E. The wind scarcely rising any more some time in the night most tremendously heavy rain fell. High flood

September -

1898.

5d 23-96

St 3109

Date	1	2	3	4	5	6	7	8	9
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	55.7	58.0	60.9	64.2	71.3	65.9	70.3	69.9	72.8
Minimum	53.3	53.3	51.9	44.8	56.3	44.0	40.9	40.7	43.0
Rain	5.90	0.9.0.	0.06	0.01	0.13	0.06			
Evaporation—Amount									
Direction of Wind	E.S.E.	E.S.E.	E.S.E.	-	W.N.W.	N.W.	W.N.W.	W.N.W.	W.
Force—0 to 6	3	3	1	0	2	2	2	1	2
Cloud—0 to 10	10	9	9	1	10	1	0	1	8
Remarks	<p>Rather light rain falling. Wind moving fast from E.S.E.</p> <p>Heavy rain continued thro' the day growing rather lighter towards evening. Not a high wind.</p>	<p>Light, thin showers rising from E.S.E.</p> <p>Clouds much more broken.</p> <p>Some showers fell thro' the day from E.S.E.</p> <p>a rather strong wind.</p>	<p>Scotch mist from E.S.E.</p> <p>Some very light showers fell thro' the day & it showed signs of clearing in the evening.</p>	<p>Small feathery clouds from N.W. & fog-clouds moving from there.</p> <p>The first thin clouds seemed to pass off in them at noon more rose, but the sky was not overcast, all the evening. Light rain fell in the night. It was a lovely day.</p>	<p>Cirro-stratus from W. & fog-clouds.</p> <p>Very small showers fell at times thro' the day, & then thunder storms rose, later & more showers fell.</p>	<p>Scuds from W.</p> <p>An most lovely day. Not a strong wind.</p>	<p>Clear & bright.</p> <p>Thin clouds rose in W. just before sunset.</p>	<p>Thin clouds rising in S.W.</p> <p>The most beautiful day—a rather strong W.N.W. wind blew all day.</p>	<p>Feathery clouds from W. Rose in the night.</p> <p>The clouds all passed off in the night. The wind blew cold & bleak from S. all day. & the bank was in sight.</p>

September

(continued.) '98.

5d 23-96

St 3109

Date	10	11	12	13	14	15	16	17	18
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	67.8	70.9	72.6	73.6	74.8	69.9	65.8	74.6	74.7
Minimum	44.5	45.0	42.2	42.2	51.8	41.0	39.0	44.4	54.3
Rain									
Evaporation—Amount									
Direction of Wind	—	N.N.W.	N.W.	N.W.	W.	W.S.W.	N.W.	W.	W.
Force—0 to 6	0	2	2	2	3	2	1	1	4
Cloud—0 to 10	3	8	1	5	0	1	0	2	1
Remarks	<p>Large soft clouds from N.E.</p> <p>This cloud rose from W. in the afternoon. A light N.E. breeze blew all day.</p>	<p>Very thin net-work of clouds from N.W.</p> <p>The wind veered to S.W. before noon, & changed to a S.E. breeze in the afternoon.</p>	<p>Feathery clouds from N.W.</p>	<p>Thin clouds</p> <p>The wind blew very strong all day from N.W., & stormy-looking clouds were round in the afternoon & there was lightning in the evening.</p>	<p>Rather hazy.</p> <p>A sea breeze rose from S.E. in the afternoon.</p>	<p>Cumulus from S. the 'bank' showing.</p> <p>Some thunder clouds passed round from W. in the afternoon & at dusk set thin clouds began to rise.</p>	<p>Rather hazy.</p> <p>Some thunder clouds passed round from W. in the afternoon & at dusk set thin clouds began to rise.</p>	<p>Thin clouds from W.</p> <p>A strong W.N.W. wind blew all day, but lulled about sunset, then rose again about 9 P.M., & blew a strong gale all night.</p>	<p>Some thin clouds rising in W. & scuds moving fast from W.S.W.</p> <p>A strong cold wind blew all day from W.</p>

September -

(continued.) '98.

5d 23-96

St 3109

Date	19	20	21	22	23	24	25	26	27
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	64.4	71.0	78.5	85.0	86.1	71.7	74.2	73.9	78.0
Minimum	38.6	42.8	43.7	52.6	59.3	41.3	47.2	49.6	50.2
Rain					0.05				0.65
Evaporation—Amount									
Direction of Wind	N.W.	W.	-	N.W.	W	N.E.	E.S.E.	N.E.	W.
Force—0 to 6	3	2	0	3	3	2	1	1	2
Cloud—0 to 10	8	5	0	0	0	1	5	1	0
Remarks	Very thin cirrus from W. a lovely day, with a mild, moderate N.W. wind.	Very thin cirrus from W. - nearly imperceptible.	Hazy, or dusky. Strong warm wind blew all day from N.W. No clouds all day.	^{strong, warm} Smokey. Thunder clouds rose in W. at noon, & heavy rain fell from one, at 7:45 p.m. with strong wind & loud thunder. Very strong wind in the night.	Clear. A lovely bright day; rather strong W.S.W. wind till afternoon, when S.E. breeze rose. Feathery clouds rose at sunset from W.	Feathery clouds from W.	Seeds from S.E. - began to rise at sunrise, & a light breeze got up soon after.	Some small feathery clouds; & seeds from N.E. Thunder-clouds rather - to before noon, & about 4:30 p.m. heavy, soft, thick shower fell from W. Bright lightning, loud thunders. Very little wind.	Very clear. Cold wind. A most lovely day. A light shower fell in the night from W. - it clouded up at 9 p.m. - thick dark clouds from W.

September -

October -

1898.

Date	28	29	30	1	2	3	4	5	6
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer			Rain						
Barometer			776.						
Dry Bulb									
Wet Bulb									
Maximum	68.5	64.9	60.4	61.4	61.8	61.3	62.2	70.3	75.9
Minimum	45.3	40.3	52.3	41.3	41.8	52.2	42.3	42.2	43.3
Rain	0.00		0.00	0.01	0.00	0.08	0.00	0.00	
Evaporation—Amount									
Direction of Wind	W.	-	S.E.	S.E.	E.S.E.	S.S.E.	W.S.W.	-	N.W.
Force—0 to 6	3	0	3	3	2	3	1	0	1
Cloud—0 to 10	1	6	9	8		9	2	0	0
Remarks	Soft, light cumulus from W. ^{also} a sea breeze rose about 2 p.m.	Cumulus from S.E. A light breeze blew from N.E. all the forenoon, then settled down to a cold S.E. one in the afternoon. A small shower fell in the night.	Cirro-cumulus + large heavy clouds from S.E. The wind blew rather strong thro' the day, + some light showers fell.	Feathery clouds—must be from W. + scuds coming up from S. A few light showers fell thro' the day from S.E.	It looked rather dark + rainy at 9 a.m. Showers fell from E. during the day + night. Cold. Not much sun.	Thin clouds seem to be from W. + scuds, + darkening rather cloudy from S.E. Some very light showers passed round during the day from S.E.	Soft cumulus from S. Beautiful S.E. bank at sunrise. Thunder clouds passed round thro' the day from different quarters, + 3 drops fell in the afternoon. Sea breeze.	A little hazy. The most sweet bright day, with light N. breeze, + fleecy clouds, + brilliant starlight night.	Rather hazy. Feathery clouds rose in W. about noon. A warm wind blew all day.

October -

(continued.)

1908.

5d 23-96

St 3109

Date	7	8	9	10	11	12	13	14	15
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer	71 at 9 a.m.							80.0 at 9 a.m.	
Dry Bulb									
Wet Bulb									
Maximum	79.4	80.9	76.3	76.4	78.1	86.1	80.0	84.6	90.2
Minimum	47.0	59.6	46.3	45.1	45.8	56.0	48.1	53.1	54.9
Rain									0.00
Evaporation—Amount									
Direction of Wind	N.W.	W.N.W.	W.	N.E. x	N.W.	S.	-	N.W.	E.N.E.
Force—0 to 6	3	4	2	5-1	2	1	0	1	1
Cloud—0 to 10	8	0	1	5	0	4	5	10	1
Remarks	Long mare's-tails; left as if from S.W., but seem to be moving from N.W.	Thick white haze - mountain only just visible, came over in the night.	Cumulus coming up from S.W. A fresh breeze S.E.	Seeds moving rather slowly from N.E.	Clear. Thunder clouds rose in P.M. at noon & passed round, & a very light S.E. breeze rose in the evening but must have freshened in the night.	Seeds from S. A sea breeze blew all day. A lovely day.	Thin clouds from W. - rose in the night. Clouds like light, thin streaks storm rose in the evening. Very calm day.	Cirro-stratus from W.; very warm wind. A few drops rain fell in the evening, & at 8:15 p.m. a strong 'southerly' came up.	

October -

(continued -)

'98.

5d 23-96

St 3109

Date	16	17	18	19	20	21	22	23	24
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer				87 at 9 a.m.	61 at 9 a.m.				
Barometer		84.2 at 9 a.m.							
Dry Bulb									
Wet Bulb									
Maximum	49.5	91.0	94.0	82.0	96.6	61.4	62.0	75.4	80.4
Minimum	48.5	55.0	50.7	56.3	60.9	56.2	50.9	49.8	46.6
Rain					0.00	0.93	0.83	0.00	
Evaporation—Amount									
Direction of Wind	N.W.	W.N.W.	E.N.E.	N.W.	E.S.E.	E.	W.	W.	N.W.
Force—0 to 6	1	2	2	4	3	3	3	2	1
Cloud—0 to 10	1	2	0	1	10	10	3	1	1
Remarks	Feathery clouds from W. A warm wind blew all day, & the feathery clouds kept about.	Cirro-stratus moving rather fast from W.N.W. This warm wind got up at 8 a.m. A strong very warm wind blew till 2.45 p.m., when a strong S. easterly rose, & brought a few scuds in the night.	Very hazy. A small thunder-cloud went over from W. during the afternoon. No rain fell. A pleasant sea breeze blew all day.	Feathery clouds from W. This warm wind rose at 5.30 a.m. Very strong hot wind blew from N.W. till 4.15 p.m. when a strong 'southerly' rose.	Overcast from S.E. Thick haze on the hills—a most charming grey mist. A few drops fell at 7 a.m. & very light misty rain began about 6 p.m. & continued thro' the night growing heavier. A strong wind kept up all day & lightning was seen in the	'Scotch mist' falling. Rather heavy, steady rain fell thro' the day, going round to N.E. towards evening. At 6 p.m. very thick heavy rain fell from W. westerly, thundering & clearing	Strato-cirrus & scuds, moving rather fast from W. some windy-looking showers passed round from W. during the day, & a few drops rain fell.	Cumulus. A fresh wind blew all the forenoon from W. then a S.E. breeze rose	Thin clouds from W. A most lovely moonlight night.

October (continued.) '98.

5723-96

St 3109

Date	25	26	27	28	29	30	31		
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	84.6	80.9	82.1	79.2	80.8	63.4	71.9		
Minimum	57.3	57.1	63.0	54.0	48.2	46.4	44.7		
Rain			0.23	0.15	0.03				
Evaporation—Amount									
Direction of Wind	E.S.E.	E.S.E.	N.W.	N.W.	W.	S.S.W.	N.W.		
Force—0 to 6	1	1	2	3	4	2	2		
Cloud—0 to 10	5	7	9	1	2	1	0		

Rain

2.26

1
3

Remarks

Cirro-stratus from W. Bands of Cirro-stratus went over all day from W. & a light sea breeze blew with fresh end in the evening & brought up squalls.

Strato-cumulus from S.E. Westerly clouds thickened all day, tho' the sea breeze kept up & occy. light rain began in the evening & continued all night.

Rain-clouds from N.W. seem to be clearing off. Drops of rain fell in the forenoon, & then at noon the clouds went off, with a most violent strong wind. Then later, light rain fell from the westward.

Small squalls from W. Towards afternoon the wind grew very strong & there were gusts of dreadful force & violence at times, with flying showers. Wind veered to S.W. towards evening.

Cumulus moving very fast from W. (cold winds). A most violent gale blew all day from W., abating late in the evening.

Very thin clouds in W. The clouds grew more dense all day, but parted off in the night. Not a strong wind, but a sea breeze rose at noon.

Rather hazy.

October

continued.

'98.

52 23-96

-96

96

St 3109

109

109

Date	25	26	27	28	29	30	31				
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	
Attached Thermometer											
Barometer											
Dry Bulb											
Wet Bulb											
Maximum	84.6	80.9	82.1	79.2	80.8	63.7	71.9	Rain		7.0	
Minimum	54.3	57.1	63.0	54.0	48.2	46.4	44.7	22.6		3.5	
Rain			0.23	0.15	0.03						
Evaporation—Amount											
Direction of Wind	E.S.E.	S.E.	N.W.	N.W.	W.	S.S.W.	N.W.			E.	
Force—0 to 6	1	1	2	3	4	2	2			2	
Cloud—0 to 10	5	7	9	1	2	1	0			2	
Remarks	Cirro-stratus from W. Bands of Cirro-stratus went over all day from W. a light sea breeze blew with fresh end in the evening & brought up squalls.	Strato-cumulus from S.E. Westerly clouds thickened all day, tho' the sea breeze kept up & very light rain began in the evening & continued all night.	Rain, cloud from N.W. seem to be clearing off. Drops of rain fell in the forenoon, & then at noon the clouds went off with a most violent strong wind. Ten later, light rain fell from thunderstorms.	Small squalls from W. towards afternoon the wind grew very strong & there were gusts of dread force & violence at times with flying showers. This ceased & S.W. towards evening.	Cumulus moving very fast from W. cold wind. A most violent gale blew all day from W. abating late in the evening.	Very thin clouds in W. The clouds grew more dense all day, but passed off in the night. Not a strong wind then a sea breeze was at noon.	Rather hazy.				

November

1898.

Date	1	2	3	4	5	6	7	8	9
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer	Did not reach								
Barometer	100° during								
Dry Bulb	November.								
Wet Bulb									
Maximum	81.8	89.4	92.1	89.3	79.0	89.7	79.0	91.8	84.0
Minimum	48.2	54.2	57.0	64.4	57.3	54.1	58.2	50.9	53.5?
Rain				0.02	0.01			0.00	
Evaporation—Amount									
Direction of Wind	W.	N.W.	N.W.	E.	W.	E.	N.W.	N.	N.W.
Force—0 to 6	1	1	4	1	3	2	1	1	2
Cloud—0 to 10	0	0	8	9	1	1	2	3	1
Remarks	Smoky. A light N.W. wind blew all day, calmed quite down in the evening.	Very smoky. Thin clouds began to rise at sunset in W. Not very strong wind all day, lulling in the evening + a very light N.E. breeze rose then.	Thin clouds from W. ^{Warm wind - rose at sunset.} The clouds gathered all day, + were quite dense in the evening. Very light rain fell in the night. The wind was strong from N.W., till about 6-30 p.m., + then changed to S.W.	Thin cloud just lifting from W.S.W. + seeds coming from S.E. - began to rise at 7.30 a.m. Very light rain fell, afternoon from W. The breeze went prod. waly round 11 N.W.	Feathery clouds rising in W. A rather strong N.W. wind blew all day, calmed in the evening + a sea breeze rose some time in the night.	Little seeds from E. Thin clouds went over all day from W. + a light sea breeze blew	Cirro-Stratus from N.W. ^{Eng. till 2.30 p.m.} Rather strong warm wind kept up till 3 p.m., when a strong southerly rose. Thin clouds rose at noon, + a few drops rain fell.	Seeds going off from E. A light breeze blew all day, the direction varying from N.E. to N.W., then quite E. in evening.	Thin clouds from W. Very heavy. Strong, warm wind kept up all day, veering to W.S.W. in the evening, making it very cool.

November

(continued.) '98.

5d 23-96

St 3109

Date	10	11	12	13	14	15	16	17	18
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	84.4	78.3	79.2	84.6	76.8	82.9	88.0	91.5	95.0
Minimum	48.5	47.3	50.0	59.3	60.6	51.7	52.2	58.1	60.3
Rain									0.00
Evaporation—Amount									
Direction of Wind	W.	W.	N.N.E.	E.S.E.	S.E.	N.E.	W.	W.N.W.	—
Force—0 to 6	3	2	1	1	1	1	2	2	0
Cloud—0 to 10	9	3	7	1	7	3	1	1	10
Remarks	Thin clouds from W, & a great deal of smoke. Cool wind. The cool wind kept up till 4 p.m., when a very cool E. breeze rose. A beautiful day.	Cirro-stratus from W.S.W. Cool breeze. A lovely day. A sea breeze rose in the afternoon.	Strato-cirrus from W.S.W.	Small thin clouds from W, & little seeds from S.E. A beautiful day.	Thin clouds from W.S.W. & clouds from S.E.	Cumulus from E.	Thin clouds from W. A warm wind blew all day, & late in the evening a light sea breeze rose.	Cirro-stratus from W. Very smoky. The wind was only light all day, then about 6.30 a light sea breeze rose, & there was lightning, & a few drops of rain from W.	Thick clouds from W. Storm clouds went over from W. in the afternoon & a few drops of rain fell; a strong 'count the lip' rose in the evening.

Date	19	20	21	22	23	24	25	26	27
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	85.0	99.8	70.2	73.7	86.3	92.0	76.3	81.4	81.1
Minimum	64.3	60.1	60.3	61.4	49.0	54.0	60.3	50.7	57.3
Rain	0.00	0.02	0.00	0.02			0.19		
Evaporation—Amount									
Direction of Wind	N.N.E.	S.E.	N.E.	W.N.W.	N.E.	—	S.E.	W.N.W.	N.E.
Force—0 to 6	2	2	2	3	1	0	1	3	2
Cloud—0 to 10	1	10	10	0	0	10	10	0	9

It was quite grey, early, thick misty clouds & smoke on the hills

Feathery clouds from W. a thunder storm with a little rain & strong hot wind went over at 6:30 p.m. The wind turned to N.W. & blew rather strong all day.

Heavy clouds from S. A little rain fell early. Strong southerly rose at 1 a.m. There was thunder early.

Thunder clouds from W. a very little rain fell at 9 p.m.

Overcast from N.E. clouds moving rather fast from there. Very light rain falling. Drops of rain fell most of the day, & a fresh breeze kept up from N.E. In the afternoon all clouds vanished & the thin cloud went off from S.W.

Bright & clear. A fairly strong wind kept up all day.

Smoky. A light breeze blew all day from N. then a very light sea breeze rose, & thin clouds must have risen in the night.

Thin clouds very smoky. Very light rain began from W. at noon with a breeze from W. The rain ceased in the evening.

The cloud seems to be from W. tho' a southerly came up at 6 a.m. Clouds went off at noon with a brisk wind from W.

Thick haze. Very cool breeze.

Thick grey haze & feathery clouds. The clouds cleared off about 4:30 p.m. & the haze also, somewhat. A pleasant light sea breeze blew.

Nov. (continued.)

December 1898.

5d 23-96

St 3109

Date	28	29	30	1	2	3	4	5	6	
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	
Attached Thermometer		89.5 ^{at}		100°	(104.0)					
Barometer		29.9		only once in December.						29.6
Dry Bulb			Rain							
Wet Bulb			26.							
Maximum	77.9	93.0	89.9	77.9	84.6	90.3	94.1	86.2	94.9	
Minimum	51.8	58.3	44.1	50.8	47.2	49.0	58.8	56.9	62.0	
Rain			1.00							
Evaporation—Amount										
Direction of Wind	N.W.	N.W.	W.S.W.	E.N.E.	W.S.W.	-	E.	S.E.	N.W.	
Force—0 to 6	2	3	3	1	1	0	2	1	1	
Cloud—0 to 10	0	4	1	4	0	0	0	1	1	
Remarks	Rather hazy.	Cirro-cumulus from W. The wind rose at 5.30 a.m. & blew very strong till 9.20 a.m. when a strong very cool S.E. wind rose & some thunder storms were about all day, & a few large drops fell at noon.	Pretty soft white cumulus. A light sea breeze rose at noon. A most beautiful day.	Cumulus, from N.E., a lovely morning.	Smoky. A light sea breeze rose in the afternoon.	Thick smoke. Some clouds rose in very thick smoke, from W., at sunset. A very light sea breeze.	Very thick smoke. Some cirro-stratus rose from W. in the afternoon & the sea breeze freshened & brought up some sun.	Clouds only just showing this the south. The clouds thickened in the afternoon & it looked stormy & a breeze blew from due E. Went off in the night.	Small feathery clouds from W. A thunder storm, with wild strong wind & little rain, came up from W. at 4 p.m. & then the wind came back with equal force from S.E. for a few miles it remained at 95° till late. Rather	

December

(continued.)

'98.

5d 23-96

St 3109

Date	7	8	9	10	11	12	13	14	15
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									
Dry Bulb									
Wet Bulb									
Maximum	104.0	97.1	83.0	78.4	74.0	86.3	86.9	74.0	94.2
Minimum	64.0	69.8	46.8	52.2	51.0	51.3	59.2	50.1	62.1
Rain	0.00	0.00		0.00					0.00
Evaporation—Amount									
Direction of Wind	E.	W.S.W.	W.	S.	S.	N.W.	S.E.	N.W.	E.N.E.
Force—0 to 6	1.	2	3	3	1	1	2	1	2
Cloud—0 to 10	0	(8)	0	4	1	0	8	1	4
Remarks	Smoky. A very few drops rain, + some sharp gusts of wind came from W. Thunder storms in the evening.	Very thick grey haze. Cool wind. Rose about 4 a.m. Thunder storm out round in the evening.	A very little cumulus. A most beautiful day. A cool, fresh E. breeze rose at noon. A very little rain fell in the night.	Cumulus from S. A strong, very cool wind kept up till about 8.30 p.m.	Cumulus. The loose light morning.	Smoky. At 9.20 a.m. a strong, very cool, southerly rose, + kept up through the day + night.	Strato-cirrus from S. A fresh, cool wind blew all day from S.E. A most lovely day.	Thin clouds from W. A rather strong wind got up in the forenoon, from N.W. At noon a very little rain fell from W. towards storm, + afterwards a light sea breeze rose.	Loosely soft white cumulus. Thin clouds rose from W. during the day.

85.0
at 9 a.m.

December

(continued.) 198.

5d 23-96

St 3109

Date	16	17	18	19	20	21	22	23	24
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.
Attached Thermometer									
Barometer									79.0 at 9 a.m. Subsided.
Dry Bulb									
Wet Bulb									
Maximum	80.9	84.2	78.4	78.3	76.3	68.1	73.4	83.7	93.6
Minimum	54.2	52.5	56.6	64.1	61.3	53.4	58.1	53.3	62.0
Rain				0.00	0.00	0.04	0.00		2.06
Evaporation—Amount									
Direction of Wind	S.W.	E.S.E.	S.E.	S.E.	E.S.E.	E.S.E.	N.E.	N.N.E.	W.
Force—0 to 6	2	2	2	2	2	3	2	1	2
Cloud—0 to 10	1	8	4	10	10	9	8	2	8
Remarks	Thin clouds rising in W., + a few scuds coming from S. (strong) A fresh cold sea breeze rose at noon + brought up scuds.	Thin clouds behind scuds from S.E.	Soft cumulus from S.E. A lovely day.	Rather heavy, dark clouds from S.E. a few drops fell early. The clouds kept about all day, + a fresh cool wind blew.	Very light showers going along the hills; a very little falls at intervals. Very light showers fell thro' the day from S.E. The clouds went off somewhat in the evening.	Rather heavy clouds from E. A light shower fell early, from there. Light showers fell at different times thro' the day, from E.	Feathery clouds from W., apparently + scuds from N.E.	Cirro-stratus rising in W. a fog early. About 1 p.m. thunder began to sound, + at 2.40 very heavy rain, with rather strong wind + loud thunder, began from N.W. Heaviest lasted 10 minutes. Another very	Clouds like storm rising in W. Very light rain began from quiet thunder storm about 12.30, + soon after, a strong 'southerly' rose + rain, rather light but steady, fell from then. One very heavy shower fell in the afternoon for a

December

1898.

5d 23-26

St 3109

Date	25	26	27	28	29	30	31			
Time	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	9 a.m.	
INSTRUMENT.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	Reading.	
Attached Thermometer										
Barometer										
Dry Bulb										
Wet Bulb										
Maximum	83.1	78.3	68.0	76.3	74.8	76.3	74.8			
Minimum	57.3	58.0	52.0	57.1	59.8	58.1	58.6			
Rain	0.45	0.00			0.01	0.10	0.06		Rain 27.2	
Evaporation—Amount									year. 44.82.	
Direction of Wind	S.	S.E.	S.E.	E.S.E.	E.S.E.	E.S.E.	-			
Force—0 to 6	4	2	2	3	2	2	0			
Cloud—0 to 10	8	10	10	4	5	9	9			
Remarks	Cumulo-cirrus from S. A strong wind blew all day from S.S.E., calming down a little in the evening. No rain.	Showers coming up from S.E. A very light shower fell about 6 a.m. from S.E. No more rain all day. Fairly breezy, clearing off.	Strato-cumulus from S.E. A most lovely day with a fresh breeze.	Cumulus from S.E. The loveliest day, a fresh breeze & a few white clouds. A little shower fell in the night sometime.	Cumulus from E. A most beautiful day & evening.	Showers rising from E.S.E. There were two rather thick showers early.	Heavy dark clouds It is uncertain where they are from. Thunder, early.	A heavy shower fell at 10 a.m., & there were more light ones this day with thunder.		

Fairly strong wind all day.

A Dust Storm on the

Dec. Darling. 1898.

FROM OUR OWN CORRESPONDENT.

The severest drought this district has ever known since the memory of the oldest inhabitant is now raging with painful intensity. The outlook is as bad as bad can be. The weather is frightfully hot—violent dust storms daily, and stock simply perishing. The paddocks are bare of everything, except fine sand. Almost daily the wind blows a gale, lifts the sand up in such quantities as to obscure the light of the sun, and turn day into night. One of the grandest and most awe-inspiring sights I have ever seen was an extra special dust storm as it "came up" in the distance the other day. It was preceded by a weird, ominous stillness, and—with the exception of a bank of cloud on the horizon—a clear sky. This "bank" grew rapidly as it advanced. Huge rollers of dust clouds of various tints came onwards in a grandly majestic manner, accompanied by a rumbling sound as of magnified distant thunder. When it was a few hundred yards off it looked at its best, a clean-cut "roller" wall of many-coloured dust clouds, as thoroughly obscuring half the heavens as the darkest night. The roar of the wind and the crashing of trees was deafening, yet where I was watching it was perfectly still and bright. Presently it "arrived," and with it darkness, "black as Egypt's night," chaos and desolation.
