METEOROLOGY FOR AUGUST, 1877.

PRIVATE OBSERVATORY, HOBART TOWN.

Latitude 42° 52′ 13″ S.; Longitude 9h. 49m. 29.2s. E.

(Registered for the Royal Society of Tasmania.)

											1							es.		ಶ	
	Bar. corrected for temperature	error, and to mean sea level.	Thermometers (Reading.)			Thermometers (Self-Registering.)			Humidity.		Clouds. 7·30 a.m. 4·30 p.m.			Wind. 7:30 a.m. 4:30 p.m.				Rain in Inches	Spon. Evap.	Ozone. Chrom. Scale.	
Day of Month.	7.30 a.m.	4.30 p.m.	Centigrade, 7.30 a.m.	Fahrenheit, 7.30 a.m.	Fahrenheit, 4.30 p.m.	Highest in Sun, 4.30 p.m.		Lowest on Grass, 7.30 a.m.	7.30 a.m.	51 4 30 p.m.	Z Character.	Amount.	N Character.	Amount.	Z Direction from.	Force in lbs. per square foot.		Force in lbs. per square foot.	i-	7.30 a.m.	7.30 a.m.
2 3 4 5 5 6 6 7 7 8 8 9 100 111 122 122 22 22 22 22 22 22 22 23 3 6 6 7 7 7 8 8 9 9 100 111 122 122 122 122 122 122 122 122	29°810 29°810 30°230 30°040 30	29·345 29·705 30·010 29·405 30·110 30·110 30·110 30·15 29·415 29·910 30·12 30·2 30·3 30·3 30·3 30·3 30·3 30·3 30·	150 85 110 80 60 20 55 55 60 75 45 30 60 75 95 95 95 95 95 95 95 95 95 9	6 4	52.0 52.0 56.0 47.0 51.5 52.0 54.0 56.0	90.0 84.0 75.0 82.0 82.5 85.0 75.5 75.5 75.5 68.0 85.0 85.0 85.0 86.0	Max.	37 0 34 5 32 0 34 5 32 0 34 5 32 0 34 5 32 0 34 5 37 0 34 5 37 0 34 5 32 5 34 0 35 5 34 0 35 5 34 0 35 5 34 0 35 5 34 0 35 5 34 0 35 5 34 0 35 5 34 0 35 5 34 0 35 5 34 0 35 5 35 0 35 0	86 86 86 77 77 77 77 77 93 78 58 79 100 77 77 77 93 93 93 76 92 84 78 78 84 78 78 84 78 84 86 86 86 86 86 86 86 86 86 86 86 86 86	62 86 93 86 56 79 58 61 74 100 70 93 80 80 80 75 62 86 93 100 71 66 67 57 86 69 80 71 80 80 71 80 80 80 80 80 80 80 80 80 80 80 80 80	NKN NKN KKN KKN KKN KKN KKN KKN KKN KKN	10 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	K N N S O O K K N N S O O O K K K K K K K K K K K K K K K K	7 : 6 : 6 : 6 : 6 : 6 : 6 : 6 : 6 : 6 :	NW NW NW NW NW NW NW	0 5:00 2:0	N N N N N N N N N N	1.00 lk	6	55 56 57 58 59 59 59 59 59 59 59 59 59 59	81 3:5 4:0 5:5 7:0 4:0 5:5 3:0 5:0 4:0 3:5 5:0 7:0 4:5 6:0 5:0 6:0 7:0 4:5 6:0 7:0 4:1 1. TI.
-		east do. Min. Min. Min. Min. 55 0 Min. 30 0												Prevailing Direction							

Note.—Force and speed of wind on August 6th :-- Force : From 16 to 20lbs. per square foot. Speed: From 56.568 to 63.245 miles per hour.

The Meteorological form brought into use at the beginning of 1876 differs in some respects from the former one. been adopted with the view of assimilating the Hobart Town records more closely with those of stations in Europe, America in order to co-operate in a system of International corology. Readings are added from the centigrade there Meteorology. Readings are added from the cenugraue mometer, that being the instrument generally used on the continent of Europe.

The mean is in all cases taken from the sums of the two daily registers, not from the maximum and minimum.

The direction of the wind is registered from currents at a height of 92 feet above sea level, and its force in lbs. per

square foot.

The relative quantity of rain that fell under the different winds is registered each morning at 7:30 a.m.

The 35 years' standard tables are used for obtaining the difference from average.

FRANCIS ABBOTT, F.R.A.S., etc.

Time of leafing, flowering and fruiting of a few standard plants in the Royal Society's Gardens during the month of August, 1877. 8th. Horsechestnut commencing to break into leaf.

14th. Common elder (Sambucus niger) ditto.

14th. Gooseberries, ditto.
20th. Common elm (Ulmus campestris) in flower. 27th. Common poplar (Lombardy) commencing to break into leaf

28th. Royal apricot in flower. F. ABBOTT, Jun., Superintendent.

Results of observations taken at New Norfolk for August, 1877, in accordance with new forms, and registered at 7:30 a.m., and 4:30 p.m.:—

Barometer, Imean of two daily readings, corrected and reduced, 29:836 in.

Thermometer, mean of 2 ditto, 44 46deg.

Ditto, mean of maximum and minimum in shade, 46 46deg. Dew point, mean position of 2 daily readings, 39.70deg.

Elastic force of vapour, mean of 2 ditto, 246.

Humidity of air, mean of 2 ditto, '85. Solar intensity, mean of maximum temperature, 110 90deg. Terrestrial radiation, mean of minimum temperature,

1671 State 1 1736 August 1 1736 August 173

Rainfall at Hill Station, 1,550ft. above sea level, 4 70in.

AUGUST WEATHER.

The anticipations of rough, stormy weather at the commencement of this month were fully realised, the prevailing weather being wet and stormy, with severe gales from N.W. and S.W. The first four days were wet and stormy from N.W., 1:35 inches of rain falling in 24 hours, from 2 p.m. on 4th. On the next day snow storms set in from the S.W., and the maximum in shade that had been up to 64° on the 2th, was only 48° on the 5th. The 6th and 7th were fine and only 48° on the 5th. The 6th and 7th were fine, and on the 8th there was a hard frost, the terrestrial radiation being down to 23° with a falling barometer and a great deal of thunder and lightning in the evening. Stormy showers with lightning in W. were the rule till the 14th, when the barometer fell to 29:32 inches, and, after a heavy fall of 46 inch of rain in the aft:rnoon, it cleared up somewhat, and there were fine, clear days and frosty nights, with the exception of a shower on the night of the 18th, till 22nd, when the barometer again went down, and S.W. storms set in, with plenty of snow on the hills, till the 26th, when it veered round for awhile to N.W., but was back again next day to S.W., and on 28th westerly weather and a rising glass brought in fine weather till the end of the month.

Rain fell on 20 days to the large amount of 4.36 inches, being the highest register for August in four years, and was only exceeded in three months during that period, viz.: in November, 1874, when there were 5'35 inches; December, 1875, 5'91 inches; and November, 1876, 4'52 inches; making up a total since the beginning of the year of 14'97 inches to 12'04 inches in 1876, 13 46 in 1875, and 12 48 in 1874, the rainfall for August in those years being 2 17 in., 1 93 in. and 1 79

inches.

The evaporation was only 1.86 inches, whereas last year it was 2.45 inches.

The mean temperature, 46'46', is about the average for August, and so is the Terrestrial radiation, 31'72', while the Solar intensity, 110'90', is 5' higher.

The wet character of the month will no doubt retard the spring growth, and be very injurious to crops in stiff, low-lying, and ill-drained lands, yet it will be of great assistance to the grasses and late crops, by enabling them to withstand the dryness of our summer weather, and judging from the dry windy weather that weather, and judging from the dry windy weather that has already set in, they will need all the moisture they have, and a great deal more before many months. W. E. Shoobridge,

Bushy Park. 5th September, 1877.