METEOROLOGY FOR MARCH, 1870.

PRIVATE OBSERVATORY, HOBART TOWN.

	jabv. se	7 feet calevel cted & cced.	20.	elf- l'hei	Registering rmometers.		Wind.			s maximum ree accord- month is a
Day of Month.	Highest.	Lowest.	Highest in shade.	Lowest in shade.	Highest in sun.	Lowest on grass.	Direction from three daily re- gisters.	Force in lbs. per square foot,	Rain in Inches.	ors, and not from the form welcofty during the fall correct. nds are registered each
5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 6 27 28 29 30	29.86s 30.124 29.902 30.245 30.380 30.380 30.317 30.184 30.437 30.335 30.239 30.225 30.230 30.200 29.932 30.223	29 982 29 863 30 160 30 184 30 184 30 184 30 181 30 308 30 311 30 259 30 185 30 173 30 198 30 173 30 103 30 173 30 103 30 123 30	79 73 65 66 67 67 64 61 60 65 73 72 83 81 76 75 62 69 69 67 67 69 76 76 76 76 76 76 76 76 76 76 76 76 76	43 56 51 52 51 47 46 54 55 50 50 50 50 50 50 50 50 50 50 50 50	116:0 117:0 117:0 110:0 106:0 106:0 106:0 106:0 106:0 106:0 106:0 112:5 103:5 113:5 103:5 117:0 104:0 115:0 117:0 106:0	41.55 44.00 55.55 44.00 55.55 54.00 55.55 54.55 50.55 50.55 50.55 52.55 54.00 49.50 49.50 49.50 49.50 55.50	NW SE NW SE	1-28 1-28 1-60 5-72 8-33 1-04 1-04 1-04 1-04 1-04 1-30 1-04 1-30 1-04 1-30 1-30 1-30 1-30 1-30 1-30 1-30 1-30	0·07 0·04 0·75 0·03 0·03	The mean in all cases is taken from the sums of the three daily registers, and not from the maximum and minimum. The direction of the wind is registered from currents moving at a height of 192 feet, and the force according to Lind's Wind Gaage. The supposition, however, of an uniform velocity during the month is a very arbitrary one, and the results can be considered only approximately correct. The relations of the quantities of rain which fell under the different winds are registered each evening at sundown.
M	onthly 30.1	mean 77	60	71	102.52	46.81	Total Force	47:33	0.94	and The The ing t

Leafing, Flowering, and Fruiting of a few Standard Plants in the Royal Society's

Gardens during the month.

5th-Tips of hornbeam commencing to turn brown.

10th—Coe's golden drop plum ripe. 10th—Seckle pear ditto 12th—Tips of elm turning yellow.

18th—Lips of efficient starting years.
18th—Common ash leaves commencing to fall.
20th—Oak leaves ditto. Acorns ripe.

Barometer mean, 30·177 in., being 0·322 in. above the average.

Temperature mean, 00·71', being 0·95' above the ditto.

Solar intensity mean, 102·52', being 0·77' below the ditto.

Dew point mean, 49°3, being 0·55' above the ditto.

Humidity of air mean, 6·8, being '03 per cent. below the ditto.

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Elastic force of vapour mean, 3·00, being '04 per cent. above the ditto.

Total amount of rain, 0·94in., being 0·73in. below the ditto.

Increase of spontaneous evaporation on rain fall, 3·48in.

Mean amount of ozone, 6·87, being 0·14 of chromatic scale below the ditto.

Electricity active on the 2nd, 5th, 6th, 7th, 8th, 11th, 13th, 20th, 22nd, 27th, 28th, 29th. A rich display of Aurora on the 22nd.

Aurora and Southern lights frequent.

FRANCIS ABBOTT.

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sundown. The 25 years' standard tables are used for obtaining the difference from the average

ANALYSIS OF OBSERVATORY RECORDS, WITH HEALTH REPORT FOR MARCH. BY DR. E. SWARBRECK HALL.

More enjoyable weather than existed during this month could scarcely be possible. Sunny, with moderate temperature, abundant and gentle ozone-laden sea breezes, almost cloudless clear skies, with only one day of smart rain and five others with sprinkling showers, formed altogether such genial weather, that it well deserved the epithet of "heavenly" which our numerous visitors from the Australian Continent and other less favoured climates so rapturously affixed to it. Nevertheless most of the atmospherical phenomenon varied greatly from the mean character of the month, as exhibited by the

Meteorological Records of the previous twenty-nine years.

Barometrical pressure mean exceeded the 25 years adopted standard average by + '322 of an inch. Only once before in the previous 29 years had any month of the twelve a higher mean, i.e., July, 1860, with 30 193 against 30 177 of the present month. High barometrical pressure in Tasmania is usually accompanied with a high death-rate, unless when counteracted by other more favourable atmospheric influences, as it was in the present month. Moreover, the extreme range of the pressure for the whole month was only '662 of an inch, being less than ever before recorded for March, while the minimum 29.775 was far the highest ever before registered. Only seven times during the month did the range from noon to noon exceed a quarter of an inch, the highest being a rise of + 433 on the 27th, which has been exceeded seven times out of the previous nine years. The maximum record 30 437 on the

11th has been exceeded six times in the previous 29 years.

The Wind-force total, 47:33 lbs. was — 5.76 lbs. below the average for this equinoctial month, but the falling off was entirely in winds from the points of the compass (northerly) least favourable to health. Gentle health bearing sea breezes (southerly) prevailed to an unusual extent; 5 out of the 93 records being winds from south-east and south-west, and with one strong west wind, having more than two-thirds of the total force, without the one day referred to on which the pressure to the square foot amounted to 5.21 lbs. There were only 18 calms registered being — 10.22 less than the March average.

Mean Temperature, 60.71 degrees, was less than one degree + 00.95) above the March average. The extremes of the self-registering maximum and minimum thermometers were respectively only \$22\$ and 40 which have been

minimum thermometers were respectively only 83 and 40, which have been exceeded—in the one above, and in the other below—frequently. The highest maximum for March being 99 in 1861, and the lowest minimum 38 in 1853, 1855, 1856. The $daily\ range$, however, was slightly (+ 1·02) above the March average, and with high atmospheric pressure and cold dry winds caused some cases of inflammation of the air passages, catarrh, bronchitis, pneumonia and croup, and had a fatal effect on long standing cases of pulmonary con-

The mean of Solar Intensity, notwithstanding the great prevalence of sunshine and the very small average of cloudy days was slightly (— '77) below the average; and the extreme record 120 degrees on 2nd and 17th has fre-

quently been much exceeded in former years.

Terrestrial-radiation mean 46.81 degrees, was — 1.34 below the average. Elastic force of Vapour, 360, was + 4 above average, ranging from 217 to

534, and therefore adverse to health.

Humidity mean, 68, was only — 3 below the average, notwithstanding the dry sunny days and small rain-fall, but then the night dews were heavy.

Rainfall, '94 of an inch was 73 less than the average, '75 of it fell on one day, the 19th, with heavier thunder and more brilliant lightningt han has been experienced for a long time in Hobart Town. This down-pour had the effect of cleansing the gutters, sewers, and drains of the city, which wanted it badly. February and March of this year conjointly have had less rainfall

than any February and March upon record.

Spontaneous Evaporation, 4:42, was not much in excess above the averages.

Cloud mean, 4:32, was — 1:10 less than the 25 years' average, only two
years in the previous 29 years had a smaller mean.

Ozone mean, 6.87, was only '26 below the average of the previous twelve years, no year since 1862 having had so small a mean. With such a small

rain-fall a much greater depression might have been expected, but fortunately for the public health sea breezes made amends for it.

Electricity was never absent at any of the recording hours, but negative

greatly predominated.

The Deaths during the month were 47, being - 7 11-13ths less than the average of the previous 13 years. Only March, 1869, had a smaller number (42) and the maximum was 73 in 1864. Males were 20, females 21. Nine only were under one year old, 3 only between 1 and 5. Four were between 5 and 20. From 20 to 60 there were 14 deaths only, but from 60 to 93 there were 16. At the Cascades Prison and Invalid Station 8 deaths took place, aged from 40 to 79; at the Brickfields Invalid Station, only one, aged 93. At the Hospital there were 11 deaths, including two Inquest cases. Consumption caused 6 deaths, three being natives of Tasmania. No disease prevailed epidemically, but a youth of 18 died from Typhoid or Pythogenic fever, but more impressively designated "filth-fever" by the best sanitarians. From time to time deaths from this preventible disease are occurring in Hobart Town, and will continue to increase as the population becomes more aggregated, seeing how the excreta of the inhabitants are allowed to decompose in the middle of our habitations, and how insufficient is the system (if it deserves such an appellation at all) of sewerage. Formerly Typhoid Fever prevailed largely at the Queen's Asylum, at New Town, notwithstanding its incomparable site, sanitorily considered, but then the cloace were within the buildings, and th ir contents were removed by drains which passed beneath the buildings; now the cloacæ are away from the buildings, and their contents are removed almost daily. The dry earth conservancy would be a still greater improvement. Hobart Town, with its privy cesspools saturating the surface soil, and with its drainage channels in many places converted into receptacles for human execreta and other decomposing refuse, so valuable for manure, will ultimately become a perennial hot-bed for those zymotic diseases which prove such a drawback on the health of the towns and cities of the United Kingdom. Yet a more advantageous site for sanitary purposes, in one of the naturally healthiest climates in the world, few cities can boast of.