

ROYAL METEOROLOGICAL SOCIETY
49, Cromwell Road, London, S.W.7

GREENWICH METEOROLOGICAL OBSERVATIONS

VOL. VII.

JAN. 1838 - MAY 1839

by

J. H. BELVILLE

LON
119

November 1838

| No. | Barometer | | | | | Thermometer | | | | | Solar | Daily | Tabular | Diff. | Ridge | |
|------|-----------|------------|-----------|------------|------------|-------------|------------|-----------|------------|------|-------|---------|---------|---------------|-------------------------|------|
| | 9 A.M. | 10 P.M. | 9 A.M. | 10 P.M. | 10 P.M. | 8 A.M. | 12 P.M. | 4 P.M. | 10 P.M. | Min | Max | Variab. | Mean | Mean years | from Tabular Mean | |
| 2 1 | 29.476 | 54 | 29.356 | 54 | 29.38 | 47 | 49 | 46 | 39 | 36.2 | 49.8 | 13.6 | 43.00 | 48.34 | -5.31 | 32.6 |
| ♀ 2 | 29.404 | 52 | 29.302 | 52 | 29.38 | 37 | 44 | 45 | 43 | 35.1 | 46.6 | 11.5 | 40.85 | 47.92 | -7.07 | 32 |
| 5 3 | 29.514 | 49 | 29.352 | 51 | 29.02 | 33 | 22 | 15 | 15 | 31.8 | 45.5 | 13.7 | 38.65 | 47.35 | -8.70 | 30 |
| 0 4 | 28.900 | 52 | 28.851 | 54 | 28.95 | 42 | 50 | 47 | 39 | 40.9 | 52.4 | 11.6 | 46.65 | 45.56 | +1.09 | 35.6 |
| 3 5 | 29.202 | 52 | 29.335 | 52 | 29.60 | 44 | 48 | 48 | 43 | 38.6 | 48.8 | 10.2 | 43.70 | 45.37 | -1.67 | 36 |
| 2 6 | 29.758 | 51 | 29.755 | 55 | 29.66 | 34 | 44 | 44 | 45 | 34.4 | 46.5 | 12.1 | 40.15 | 47.74 | -7.29 | 31 |
| ♀ 7 | 29.506 | 55 | 29.473 | 57 | 29.48 | 54 | 56 | 55 | 53 | 43.5 | 58.0 | 14.5 | 50.75 | 46.47 | +4.28 | 37 |
| 2 8 | 29.600 | 58 | 29.581 | 58 | 29.50 | 47 | 53 | 51 | 48 | 47.0 | 53.1 | 6.4 | 50.20 | 43.71 | +6.49 | 43 |
| ♀ 9 | 29.410 | 58 | 29.492 | 60 | 29.60 | 44 | 48 | 46 | 40 | 43.9 | 49.0 | 5.1 | 46.15 | 42.59 | +3.86 | 13.6 |
| 5 10 | 29.750 | 51 | 29.782 | 55 | 29.83 | 34 | 44 | 43 | 35 | 34.4 | 45.9 | 11.5 | 40.15 | 44.08 | -3.93 | 31 |

29.45405729427953

| | | | | | | | | | | | | | | | | |
|-----|--------|----|--------|----|-------|----|----|----|----|-------|-------|------|--------|-------|--------|-----|
| 011 | 29.701 | 50 | 29.651 | 50 | 29.80 | 32 | 38 | 40 | 40 | 30.1 | 40.4 | 10.3 | 35.25 | 45.62 | -10.37 | 29 |
| 012 | 30.126 | 47 | 30.104 | 49 | 30.35 | 35 | 44 | 42 | 36 | 34.4 | 44.8 | 10.4 | 39.60 | 43.88 | -4.28 | 31 |
| 013 | 30.452 | 48 | 30.410 | 50 | 30.39 | 33 | 44 | 43 | 33 | 31.1 | 45.9 | 14.5 | 38.65 | 44.02 | -5.37 | 284 |
| 014 | 30.294 | 47 | 30.192 | 49 | 30.10 | 29 | 42 | 40 | 41 | 28.5 | 43.8 | 15.3 | 36.15 | 43.40 | -7.25 | 284 |
| 015 | 29.968 | 50 | 29.875 | 50 | 29.84 | 40 | 44 | 44 | 42 | 38.6 | 45.0 | 6.4 | 41.80 | 43.33 | -1.53 | 354 |
| 016 | 29.754 | 50 | 29.708 | 52 | 29.75 | 41 | 45 | 45 | 39 | 39.5 | 45.6 | 6.1 | 42.55 | 42.26 | +0.29 | 39 |
| 017 | 29.800 | 52 | 29.774 | 53 | 29.71 | 39 | 43 | 43 | 43 | 38.3 | 44.1 | 5.8 | 41.20 | 42.01 | -0.81 | 35. |
| 018 | 29.684 | 51 | 29.696 | 53 | 29.68 | 43 | 44 | 44 | 44 | 41.6 | 45.0 | 3.4 | 43.30 | 43.41 | -0.11 | 394 |
| 019 | 29.615 | 50 | 29.532 | 50 | 29.56 | 40 | 39 | 39 | 39 | 40.0 | 40.0 | — | 40.00 | 42.00 | -2.00 | 40 |
| 020 | 29.698 | 49 | 29.701 | 49 | 29.64 | 37 | 39 | 39 | 38 | 36.4 | 40.0 | 3.6 | 38.20 | 41.76 | -3.56 | 362 |
| | 29.909 | 50 | 29.874 | 51 | | | | | | 35.88 | 43.46 | 7.58 | 39.670 | | | 342 |

821 2e 620 47 2e 328 18

| | | | | | | | | | | | | | | | | | | |
|----|--------|----|--------|----|-------|----|----|------|----|------|-------|------|-------|-------|--------|--------|-------|------------------|
| 21 | 29.470 | 47 | 29.378 | 48 | 29.25 | 37 | 39 | 39.2 | 10 | 35 | 0 | 35.4 | 4 | 4 | 37.2 | 40.89 | -0.44 | 35 |
| 22 | 29.220 | 50 | 29.251 | 50 | 29.40 | 43 | 48 | 46.2 | 9 | 39 | 2 | 18.2 | 9. | 0 | 43.7 | 42.24 | +1.46 | 39 |
| 23 | 29.555 | 50 | 29.568 | 50 | 29.60 | 43 | 42 | 39 | 36 | 36.3 | 13. | 1 | 6 | 8 | 39.70 | 42.28 | -2.58 | 32 $\frac{1}{2}$ |
| 24 | 29.608 | 47 | 29.688 | 48 | 29.83 | 37 | 38 | 37 | 31 | 35.5 | 38 | 1 | 2. | 6 | 36.80 | 41.47 | -4.67 | 35 |
| 25 | 30.050 | 44 | 30.051 | 45 | 29.99 | 26 | 34 | 33 | 31 | 25.2 | 35.6 | 10.4 | 30.40 | 40.84 | -10.44 | 24 | | |
| 26 | 29.930 | 44 | 29.926 | 43 | 29.90 | 30 | 32 | 29 | 28 | 29.6 | 33.0 | 4. | 4 | 30.80 | 41.31 | -10.51 | 27 | |
| 27 | 29.570 | 42 | 29.820 | 43 | 29.18 | 32 | 34 | 35 | 38 | 25.8 | 38.5 | 12 | 7 | 32.15 | 40.55 | -8.40 | 24 | |
| 28 | 29.101 | 46 | 28.730 | 48 | 28.70 | 38 | 48 | 49 | 49 | 38.0 | 48.5 | 10 | 5 | 43.25 | 41.85 | +1.40 | 33 | |
| 29 | 28.732 | 52 | 28.728 | 54 | 28.88 | 49 | 48 | 50 | 47 | 45.0 | 52.4 | 7. | 4 | 48.70 | 44.21 | +4.49 | 44 | |
| 30 | 29.000 | 53 | 29.150 | 54 | 29.38 | 46 | 51 | 47 | 46 | 45.0 | 52.0 | 7. | 0 | 48.50 | 43.58 | +1.92 | 43? | |
| | 29.423 | 47 | 29.379 | 48 | | | | | | 35.3 | 42.9? | 7 | 57 | 39.15 | | | 33.7 | |
| | 29.596 | 50 | 29.560 | 51 | | | | | | 36.6 | 45.33 | 8 | 72 | 40.47 | 43.73 | -2.76 | 34.3 | |

November 1838.

| Date | Winds | | Wind | | Clouds | | Rain | Sea Level Hg. 29.92 | Temperature AM. P.M. | Humidity |
|------|-------|------|-------|-------------|--------|------------|------|------------------------|-------------------------|----------|
| | S.H. | P.H. | Night | AM PM Night | AM PM | AM PM Wind | | | | |
| 2 1 | W | W | W | 2 1 | 2 1 | 10 7 | 0 | 96 | 89 | ○ |
| 2 2 | SW | SWW | NNW. | 1 2 | 2 1 | 0 8 | 3 | 90 | 82 | |
| 2 3 | SW | S | S | 1 1 | 3 1 | 9 | 10 6 | 95 | 78 | |
| 2 4 | SSW | SS | W | 1 1 | 0 | 7 | 6 9 | 85 | 80 | |
| 2 5 | WSW | NNW | NNW | 1 1 | 0 | 10 | 10 5 | 95 | 85 | |
| 2 6 | SW | SW | SS | 1 0 | 2 | 2 | 2 10 | 97 | 74 | |
| 2 7 | SSW | SSW | SW | 3 3 | 3 | 10 | 5 5 | 98 | 80 | |
| 2 8 | SW | SW | SS | 2 1 | 0 | 5 | 8 10 | 88 | 74 | ○ |
| 2 9 | W | WSW | NNW | 0 1 | 2 1 | 10 | 1 1 | 95 | 85 | |
| 2 10 | WSW | SW | SW | 1 1 | 0 | 5 | 7 2 | 97 | 82 | |

Results

| 011 | E? | NE | NNE | V/V | V/V | 3 | 10 | 10 | 2 | 99 | 92 | Bar Max 30.452 the 13 th | | |
|-----|------|------|-----|-----|-----|---|----|----|----|----|-----|--|---|---|
| 012 | NNE | NNE | NE | V/V | V/V | 1 | 2 | 4 | 0 | 85 | 72 | Bar Min 28.650 the 18 th 29 | | |
| 013 | NESE | NESE | E | V/V | V/V | 2 | 0 | 0 | 1 | 0 | 87 | 76 | Mean at 9 AM 29.596 | |
| 014 | E | E | E | V/V | V/V | 1 | 0 | 2 | 3 | 10 | 90. | 84 | Mean at 3 PM 29.560 | |
| 015 | E? | E? | - | V/V | V/V | 0 | 0 | 0 | 10 | 10 | 10 | 99 | 92 | |
| 016 | - | NE | - | V/V | V/V | 0 | 0 | 0 | 10 | 10 | 10 | 72 | 56 | Shr Max 58.0 the 7 th 11 th |
| 017 | - | E? | E | V/V | V/V | 2 | 8 | 5 | 10 | 95 | 90 | Shr Min 25.8 the 27 th 28 th | | |
| 018 | EVE | EVE | EVE | V/V | V/V | 2 | 2 | 10 | 10 | 10 | 95 | 95 | Moon Temp 40.97 | |
| 019 | SENE | SENE | EVE | V/V | V/V | 3 | 3 | 2 | 10 | 10 | 10 | 96 | 95 | Solar Nor 8° 72 |
| 020 | EAE | EWN | E | V/V | V/V | 1 | 2 | 10 | 10 | 10 | 93 | 86 | Min of Rad. 24° the 27 th 28 th | |

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| | | | | | | | | | | | | |
|----|--------|----------------|-------|---|---|-----|----|----|----|----------------|----|---------------------------|
| 21 | EWS | EWN | E | 2 | 2 | 1 | 10 | 10 | 10 | 97 | 93 | Difference from the Mean |
| 22 | E. SE | SE | E | 1 | 1 | 0 | 7 | 5 | 7 | 97 | 86 | Temp. of 20 Years - 2.76 |
| 23 | EWN | EWE | EWE | 1 | 1 | 1 | 9 | 10 | 10 | 95 | 92 | |
| 24 | EWE | EWC | EWE | 1 | 2 | 1 | 10 | 10 | 4 | 85 | 84 | Amount of Rain 3.170 |
| 25 | - | E ⁹ | E | 8 | 0 | 1 | 5 | 9 | 5 | 90 | 88 | (by Driftage) |
| 26 | EWS | E | EWS | 4 | 1 | 2 | 7 | 2 | 8 | 87 | 80 | 2. by Cylinder gauge 3.08 |
| 27 | SESE | SESE | SE. S | 3 | 3 | 3 | 10 | 10 | 7 | 91 | 90 | |
| 28 | S. SSE | SSE. S | SSW | 2 | 4 | 5 | 10 | 10 | 8 | 100 | 95 | |
| 29 | SSW | SSWWSW | SW | 4 | 1 | 5.3 | 9 | 7 | 9 | 86 | 82 | |
| 30 | SSWWSW | WSW | WSW | 2 | 3 | 2 | 5 | 5 | 4 | 90 | 81 | |
| | | | | | | | | | | 1.565 | | |
| | | | | | | | | | | 3.170 | | |
| | | | | | | | | | | 25.7 m to 25 m | | |

November 1838 Part
Weather Log

| | |
|----|---|
| 1 | Foggy A.M. left cold <u>Cirrostratus</u> . Clear moonlight night |
| 2 | Cloudless till 10 A.M. - soon in showers. <u>Cirrostrati</u> . |
| 3 | Hoar frost & clear till 9 P.M. overcast. East'ly breeze (Wind full South) |
| 4 | generally fine light showers from <u>Nimbi</u> . nearly calm |
| 5 | thick and cloudy, hasty rain. |
| 6 | Very fine f. <u>Cirrus</u> (summit in groups). Rainy Night. |
| 7 | Rain till 10 A.M. Windy with high temperature. <u>Cumuli</u> & <u>Serul</u> fine and wild. P.M. overcast. rainy night |
| 8 | Small rain till noon. - afternoon fine. Clear Starlight Night. |
| 9 | Very fine <u>Præcipit. Cirrus</u> . P.M. Cumuli into <u>Nimbi</u> |
| 10 | M ^o Bar 29.144 M ^o Thor 45.09 Rain 0.860 |
| 11 | Stratus with mist - Rain in light showers. P.M. Night Windy & clear |
| 12 | Very fine. <u>Cumuli</u> . Clear at night. |
| 13 | Light hoarfrost with thin ice. at sunrise. Very clear. Night Cloudless |
| 14 | frost till 10 A.M. <u>Serul</u> very fine dry. Black cloudy night |
| 15 | Cloudy and thick. A shifting mist. <u>Stratus</u> . no wind |
| 16 | Df. Df. Calm. |
| 17 | Much mist & fog. clear above at noon - Cloudy night with rain |
| 18 | <u>Cirrostratus</u> . <u>Serul</u> . small rain. |
| 19 | Small rain without intermission. with wind |
| 20 | Cloudy and cloudy. |

| | |
|----|--|
| 21 | Darkly cloudy and dark <u>stratus</u> . Rain at night (clear |
| 22 | showers. with fine clear sky at intervals. Wind E. partly |
| 23 | Calot dark and cloudy. |
| 24 | Df. Df. Df. Ew. clear with frost |
| 25 | Sharp frost. thick & cloudy. Ew & night partly clear mostly cloudy |
| 26 | dry frost air very sharp. <u>Cirrus</u> . <u>Cirrostratus</u> from E. and S.E. a |
| 27 | strong wind <u>Cirrostrati</u> . <u>Serul</u> . Rainy day. with showers of green lightning |
| 28 | from N.W. Thunder indications. followed by rain & wind. Night temperature in |
| 29 | Thunder at 8 ^h A.M. Rain and Wind in Violent Squalls with Red lightning |
| 30 | fine dry flying clouds. A moderate gale. fine evening |

M^o Bar 29.100 M^o Thor 39.15 Rain 1.565

28. Note: Min of Bar 28.650 at 5 P.M. at 8 ^{2 PM} 28.69

29. Min of Bar 28.650 at 4 A.M. at noon 28.70. at 5 P.M. 28.76 - 6^h 28.80

November 1838 Part

Notes &c

1. A cool morning. Trees leafless with the exception of a few without leaves on the Oak, and the top of Poplars which have been made into pollards. The circumference of the trees losing all their leaves in October may be attributed to the frost. on the 12th and 13th and the tremendous gale of the 29th. the weather now has become cold Windy and wet
3. fine Morning* with hoar frost. Cirrostratus cloud appears and by noon quite overcast. Some rain fell soon after sunset with a Wind at S. the Bar. falling fast (29.00 at 11 P.M.) likewise some heavy gusts of wind between 8 and 9 P.M. but the night in general was fine and but little wind.
4. Barometer falling and very low. Wind S to SW the sky rather cloudy, exceedingly clear and the Sun's horizon with uncommon brilliancy. the lowest observed 28.85 about 3 P.M. Electrified clouds of the Cumuli modification round the horizon. Ew. partially cloudy. Bar. very slowly rising
6. The temperature of the air very difficult to obtain accurately for a thermometer placed near where the sun had been shining 49°. the Standard Mercurial at an elevation of 20 feet 47°. the self Registering Maximum ^{index} at 46°. and one placed on the ground at only 46°. 46.5 the Max. adopted
7. 8. Windy weather with very high temperatures.
11. just freezing with a stratus fog early in the Morning
12. fine clear blue sky with a brisk NNE Wind - this day remarkably fine. large Cumuli from NNE
13. Df. from Crimson between the hours of 2 and 5 A.M. this day remarkably fine and clear. and the Sun has shone with uncommon brilliancy
- 15 and 16. Very cloudy dry and no Wind
16. Clouds from West. Wind or rather a very gentle breeze from the Eastward. appearances of rain
- 18 and 19. It has rained without intermission (more or less) for nearly 10 hours about $\frac{3}{4}$ of an inch has fallen - likewise a strong Wind from the East - and a great mass of

November 1838

Notes cont'd

dark cloud for 3 days.

21 All this day apparently dark and cloudy, the clouds formed from unbroken mists, so that it was impossible to make out its direction, and the gloom so great that after 2 o'clock P.M. it appeared twilight ~~as~~ like after sunset. Bonnerton falling and low with a strong breeze at East

22. The clouds suddenly broke a little before noon, and the Wind got to the ~~North~~ South, fine blue sky at intervals. Temperature rising fast, the day a little above the Mean.

25 Frost with ice, dry calm and cloudy. Night a breeze from East with a partly clear sky - much Clouds in darker patches.

26 Cloudy. All. It has not thinned this day in the shade. Wind pale, light breeze from the Eastward

28 After a fine morning Wind and Clouds collected for a storm and the Barometer fell till after sunset - Heavy rain and a gale of Wind the whole of the afternoon from S and SSE. about 6 P.M. the Wind got round to SSW blowing a gale accompanied with lightning, and at intervals squalls of rain.

29 Tremendous gusts of Wind, thunder & lightning at 3 A.M. and again at 8 $\frac{1}{2}$ A.M. continual lightning the whole morning. Much rain fell in heavy showers. Brilliant lightning after sunset, followed by a succession of violent squalls, and at 10 P.M. two or three loud claps of thunder, attended by hail of large size, this was immediately followed by torrents of rain in showers the Wind blowing at intervals a perfect hurricane. This long and terrible storm at last subsided about 3 in the Morn of the 30th after having continued for 2 days and 2 nights. The Weather much out on the 30th

{that which was past the Earth
of Modification Natural

November 1838

Notes. Cont'd

Much damage has been caused by the late Hailstone
Several ships of Merchandise have been wrecked on
the Southern and Eastern Coasts, and their crews
drowned. Two or three lost in the Metropolis
by the falling in of houses &c, likewise much confusion
and loss of property on the Thames by vessels coming
into collision with each other.

At Petworth in Sussex were the greatest floods ever known
two persons drowned and several sheep also were
killed by the lightning - and at Shoreham the Harbour
has sustained considerable damage

Weather on the Coast
Liverpool. Wind W. blowing fast no arrivals and no
sailing.

Dated Nov 29.

Dec 28 Nov. Wind SW blowing hard the whole of last night
and throughout the day in heavy squalls with rain thunder
and lightning.

Portsmouth Nov 29. Wind SW to W heavy gale tremendous squalls.
It has blown a heavy gale last night and the whole of this
day from SW to WSW accompanied with heavy rain thunder and
lightning.

Talmarth Nov 28 Wind SE to SW violent gales at 1 AM it com-
menced blowing a violent gale from SC accompanied with Squalls
and thick weather till 2 P.M. when it veered to SW and con-
tinued to blow with great fury.

Brighton. Nov 29. A tremendous gale with thunder and
lightning and Hail

Marine Advertiser Dec 1/38

A great attention was paid during the greater part of this
month to Meteors particularly on the 12th, 13th & 14th. but nothing
more than usual was observed.

November. 1838.

Notes. Cont'd.

The great Western Steam Ship

On her passage home from New York.

| | Winds | Lat N | Long W | Distance miles | Remarks |
|---------|---------|----------|-----------|-------------------|--|
| Nov 23 | N | 40° 27' | 70° 11' | 176 | Moderate and steady fresh breeze |
| 1838 24 | NNW N | 40 8 | 65 24 | 216 | dark cloudy weather. |
| 25 | NEE NW | 40 51 | 60 56 | 223 | Moderate gale, much sea. |
| 26 | NNW | 41 8 | 56 23 | 235 | Strong gales. Squalls hazy & rain |
| 27 | W | 42 34 | 52 1 | 210 | Fresh breeze and squally |
| 28 | Var SW | 43 57 | 46 59 | 217 | Moderate & cloudy. heavy sea from ^{SW} |
| 29 | Var WNW | 45 28 | 41 57 | 232 | Light breeze - dark hazy weather |
| 30 | D° | 46 8 | 37 22 | 200 | Squally, heavy gales & snow squalls. |
| Dec 1 | NW | 47 27 | 33 20 | 195 | Wind & sea increasing. hard gales |
| 2 | D° | 48 31 | 28 21 | 212 | Wind decreasing. fresh gales, ^{squally} hard |
| 3 | SW | 49 47 | 23 11 | 212 | Fresh breezes. Squally |
| 4 | D° | 50 47 | 16 57 | 247 | Fresh breezes. showers heavy northerly |
| 5 | D° | 51.0 | 10 5 | 260 | Strong breeze light squalls and haze at times. Strong breeze light squall. fresh breeze, thick hazy weather at 8 A.M. Saw Sandy island bearing East distant 6 leagues |

November. 1838.

Notes Cont'd.

Additional notes of the Storm of 28th & 29th
Nov 1838 City intelligence from Lloyd's -

Very distressing accounts have been received
both yesterday and to day of the injuries
sustained on the coast by the hurricanes.
In fact, the underwriters at Lloyd's
and the various public companies, who
take such risks have not had such a
bad year as the present, taken altogether
for a long time past. Independently of
the total losses noticed upon Lloyd's books
to day, as well as on Friday, there is too
much reason to apprehend that the splen-
did ship Colborn has been totally lost
on her outward voyage to Quebec. This
fear is expressed in a letter received by
her Master's ship Inconstant. The Col-
borne had a cargo worth 50,000\$ on board
including 20,000\$ in specie shipped on account
of one of the Canadian Banks and 10,000\$
in clothing, destined for the British troops
in Quebec and Montreal. It is also feared
that the Philadelphia London line of packet
ship from New York, has been lost. Two
very valuable ships from South America

November 1838 Notes. Cont'd.

are among the total losses announced in Lloyd's to day - We need hardly observe that among the merchants as well as the underwriters, a very strong degree of excitement has prevailed to day in consequence of the immense destruction of property which has been occasioned by the late gales.

Falmouth. Nov. 29th. Wind S. W. to W.
fierce gales. During the last 24 hours it has blown a furious gale with violent squalls from the S. W. accompanied with thunder, lightning, and heavy hail storms.

Dec 2nd Between the hours of 9 & 10 P.M. Oxford and its neighbourhood was visited by a tremendous storm of thunder, lightning, and hail, the hailstones were rather pieces of ice which demolished or cracked every pane of glass exposed to their fury in one hour not a single square escaped and the skylight of another was completely forced in.

Oxford near Sevenoaks.

Dec 3 A heavy and destructive gale at

November 1838 Notes. Cont'd.

Brighton on Sunday 2nd with thunder and lightning the electric fluid struck one of the towers of the Pavilion which it destroyed - much damage done by the lightning about Rye in Sussex.

On the night of Dec 2nd at midnight the church of Dinton near Maidstone* was struck by lightning during a tremendous thunder storm accompanied with torrents of rain and a perfect hurricane of wind.

Times Dec 7th 1838

Ireland

The storm in Ireland has been attended by fatal and disastrous effects.

(* in Kent)

December 1838

| O. | Bear | Bear | Bear | Bear | 8 | 12 | 4 | 10 | Min. | Max | Solar | Daily | Tabular | Diff. | Radical | |
|------|-----------|-----------|-----------|------|-------|----|----|-------|-------|-------|--------|-------|---------|-----------------|---------|---------|
| | 9 AM | 3 P.M. | 10 P.M. | ALL | PM | PM | PM | PM | Min. | Max | Var | Mean | Mean | from | Radical | Remarks |
| 5 1 | 29.575 | 54 | 29.556 | 55 | 29.35 | 45 | 51 | 51 | 53 | 44.0 | 51.8 | 7.8 | 17.90 | 44.35 | +3.53 | 40 |
| 0 2 | 29.506 | 56 | 29.518 | 51 | 29.53 | 52 | 55 | 48 | 50 | 49.0 | 56.0 | 7.0 | 52.50 | 42.76 | +9.44 | 48 |
| 2 3 | 29.502 | 56 | 29.490 | 56 | 29.45 | 43 | 49 | 47 | 42 | 42.2 | 49.6 | 7.4 | 45.90 | 41.50 | +4.40 | 41 |
| 6 4 | 29.601 | 54 | 29.654 | 54 | 29.75 | 40 | 45 | 46 | 36 | 39.0 | 47.0 | 8.0 | 43.00 | 42.70 | +0.30 | 37 |
| ♀ 5 | 29.875 | 53 | 29.970 | 54 | 30.10 | 38 | 45 | 45 | 43 | 35.1 | 46.0 | 10.9 | 40.55 | 42.48 | -1.93 | 33 |
| 2 6 | 30.280 | 50 | 30.310 | 50 | 30.32 | 41 | 42 | 38 | 38 | 40.0 | 43.1 | 3.1 | 41.55 | 41.51 | +0.04 | 37 |
| 2 7 | 30.285 | 51 | 30.299 | 51 | 30.35 | 46 | 46 | 45 | 39 | 31.2 | 46.7 | 12.5 | 40.45 | 41.84 | -1.39 | 31 |
| 5 8 | 30.400 | 49 | 30.392 | 49 | 30.42 | 34 | 40 | 39 | 34 | 33.0 | 40.6 | 7.6 | 36.80 | 41.75 | -4.95 | 30 |
| 0 9 | 30.468 | 47 | 30.410 | 46 | 30.40 | 31 | 33 | 33 | 29 | 28.6 | 33.8 | 5.2 | 31.20 | 41.36 | -10.16 | 29* pos |
| 2 10 | 30.321 | 46 | 30.252 | 46 | 30.25 | 30 | 34 | 33 | 34 | 25.2 | 36.1 | 10.9 | 30.65 | 40.86 | -10.21 | 27* pos |
| | 29.981152 | | 29.985152 | | | | | | | 37.03 | 45.07 | 8.04 | 41.050 | | | 35.3 |
| ♂ 11 | 30.31648 | 80.35818 | 30.42 | 37 | 41 | 40 | 38 | 32.0 | 10.8 | 8.8 | 36.40 | 40.24 | -3.84 | 30 | | |
| ♂ 12 | 30.39047 | 80.35848 | 30.36 | 38 | 42 | 42 | 41 | 36.2 | 43.8 | 7.6 | 40.00 | 39.67 | +0.33 | 33 | | |
| 2 13 | 30.36550 | 80.36550 | 30.40 | 41 | 43 | 42 | 41 | 40.0 | 43.1 | 3.1 | 41.55 | 40.45 | +1.10 | 39 | | |
| ♀ 14 | 30.41651 | 80.40551 | 30.23 | 39 | 44 | 42 | 41 | 39.0 | 44.2 | 5.2 | 41.60 | 39.92 | +1.68 | 38 | | |
| 5 15 | 30.39249 | 80.35149 | 30.39 | 35 | 39 | 37 | 34 | 33.9 | 41.0 | 7.1 | 37.45 | 40.50 | -3.05 | 32 | | |
| 0 16 | 30.40148 | 80.34547 | 30.41 | 36 | 37 | 38 | 37 | 32.2 | 38.2 | 6.0 | 35.20 | 40.17 | -4.97 | 30 ¹ | | |
| 2 17 | 30.40546 | 80.37246 | 30.38 | 33 | 34 | 36 | 33 | 32.6 | 34.3 | 1.7 | 33.45 | 40.17 | -6.72 | 32 ² | | |
| 8 18 | 30.35046 | 80.32447 | 30.30 | 33 | 36 | 34 | 33 | 32.0 | 36.8 | 4.8 | 34.40 | 40.82 | -6.44 | 32 | | |
| ♀ 19 | 30.26045 | 80.22446 | 30.22 | 33 | 36 | 36 | 35 | 30.6 | 36.6 | 5.8 | 33.50 | 41.11 | -7.61 | 30 ⁴ | | |
| 2 20 | 30.22546 | 80.25046 | 30.38 | 29 | 42 | 38 | 35 | 28.7 | 42.0 | 13.3 | 35.35 | 40.51 | -5.16 | 28 | | |
| | 30.352047 | 80.342048 | | | | | | 33.72 | 40.06 | 6.34 | 36.890 | | | 32.4 | | |
| ♀ 21 | 30.39645 | 80.38345 | 30.292 | 35 | 37 | 36 | 35 | 31.5 | 37.2 | 5.7 | 34.35 | 40.22 | -5.87 | 30 | | |
| 5 22 | 30.14545 | 80.05545 | 29.95 | 33 | 38 | 39 | 41 | 32.0 | 41.0 | 9.0 | 36.50 | 38.93 | -2.43 | 32 | | |
| 0 23 | 29.63648 | 29.50149 | 29.46 | 43 | 43 | 43 | 44 | 41.0 | 44.2 | 3.2 | 42.60 | 38.85 | +3.75 | 38 | | |
| 2 24 | 29.37550 | 29.33049 | 29.40 | 41 | 41 | 38 | 37 | 39.0 | 42.4 | 3.4 | 40.70 | 37.96 | +2.76 | 38 | | |
| ♂ 25 | 29.70047 | 29.85547 | 29.98 | 32 | 33 | 33 | 32 | 31.1 | 34.0 | 2.9 | 32.55 | 37.89 | -5.34 | 29 | | |
| ♀ 26 | 29.97445 | 29.80040 | 29.53 | 25 | 35 | 38 | 37 | 24.5 | 38.0 | 13.5 | 31.25 | 36.47 | -5.22 | 23 | | |
| 2 27 | 29.70046 | 29.82547 | 30.05 | 33 | 39 | 37 | 33 | 32.0 | 39.9 | 7.9 | 35.95 | 36.17 | -0.22 | 30 | | |
| 0 28 | 30.29546 | 80.34047 | 30.39 | 30 | 35 | 33 | 28 | 29.6 | 36.0 | 6.4 | 32.30 | 35.05 | -2.25 | 29 | | |
| 5 29 | 30.28146 | 80.25048 | 30.28 | 38 | 43 | 42 | 45 | 28.0 | 43.5 | 15.5 | 35.75 | 35.28 | +0.47 | 26 ¹ | | |
| 0 30 | 30.18050 | 80.10852 | 30.30 | 46 | 49 | 49 | 41 | 42.6 | 60.4 | 7.8 | 46.50 | 37.02 | +8.48 | 40 | | |
| 2 31 | 30.52541 | 80.58057 | 30.633 | 32 | 39 | 38 | 32 | 32.4 | 40.2 | 7.8 | 36.30 | 37.45 | -1.15 | 30 | | |
| | 30.01747 | 80.00348 | | | | | | 33.06 | 40.62 | 7.55 | 36.84 | | | 34.3 | | |
| | 30.11448 | 80.10648 | | | | | | 34.55 | 41.87 | 7.32 | 38.21 | 39.81 | -1.60 | 33.0 | | |

December. 1838.

| Date | Winds | | Night | Winds 0-6 | Clouds 0-10 | Rain | Temp °F | Def. Inc. Hypom |
|------|------------------|------------------|----------------|--------------|----------------|-------|------------|--|
| | AM | PM | | | | | | |
| 5/1 | SW | SSW | SW | 2 2 3 | 5 10 10 | 0 | 90 91 | Index 7.585 |
| 5/2 | SW | SW | SW | 3 3 32 | 6 7 7 | | 86 85 | Cylinder 1.25 } 1st Dec |
| 5/3 | SW | SW | SW | 2 2 9 | 5 2 4 | | 92 84 | |
| 5/4 | NW | W | NW | 1 1 1 | 3 4 7 | | 90 83 | |
| 5/5 | NW | NW | NW | 1 1 1 | 10 8 8 | | 94 85 | |
| 5/6 | W | W. | SW | 1 0 1 | 9 5 10 | | 92 80 | |
| 5/7 | N ³ | N ³ | N | 0 0 4 | 10 10 2 | | 99 86 | |
| 5/8 | NW | N | N | 1 2 8 | 2 3 5 | | 94 85 | |
| 5/9 | N ³ | N ³ | M | 0 0 0 | 10 10 10 | C | 97 96 | |
| 5/10 | W | W ³ | W. | 1 0 8 | 8 5 10 | | 95 91 | |
| | | | | | | 1.155 | | Results. |
| 5/11 | W ³ | W ³ | W | 0 0 1 | 10 10 10 | | 98 94 | Bear Max 30.635 the 31 st |
| 5/12 | WSW | WSW | W ³ | 1 1 1 | 10 9 10 | | 96 89 | - Min 29.330 the 21 st |
| 5/13 | W ³ | W ³ | W | 1 0 0 | 10 10 10 | | 94 90 | Mean at 9 AM 30.114 - 48 |
| 5/14 | - | NE ³ | E | 0 0 0 | 10 7 10 | | 90 89 | Mean at 3 PM 30.106 - 48 |
| 5/15 | E | E | E | 0 1 0 | 5 5 8 | | 90 84 | |
| 5/16 | ESE | E | E | 0 0 0 | 10 10 10 | D | 86 73 | Ther Max 56.0 the 2 nd |
| 5/17 | SE S | E ³ | E ³ | 0 0 1 | 10 10 10 | | 80 76 | - Min 24.5 the 26 th |
| 5/18 | E ³ | E ³ | S | 0 0 0 | 10 10 10 | | 80 75 | Mean Temp. 38.21 ^o |
| 5/19 | SSE | SSE | SW | 0 0 1 | 10 10 5 | | 81 80 | Solar Nor 7.32 ^o |
| 5/20 | SW | SW | SE | 1 0 5 | 8 7 | | 95 82 | Min of Rad. 23 ^o the 28 th |
| | | | | | | 0.005 | | |
| 5/21 | SE | SE | S | 1 0 2 | 10 10 10 | | 90 89 | Difference from the Mean |
| 5/22 | S | SE | S | 1 0 2 | 10 10 10 | | 86 90 | Temp of 20 Years. -1.60 ^o |
| 5/23 | S | SSE | SE | 3 2 2 | 10 10 10 | | 95 90 | |
| 5/24 | ESE | E | NE | 1 2 2 | 10 10 10 | D | 97 92 | Amount of Rain |
| 5/25 | N | NNW | W | 2 1 1 | 3 2 3 | | 85 74 | (by Crossley's) 1.760 |
| 5/26 | S ³ W | S ³ W | SSW | 1 2 3 | 9 10 7 | | 95 83 | Do by Cylinder gauge. 1.77 |
| 5/27 | W | NNW | NNW | 1 1 1 | 2 0 1 | | 93 79 | |
| 5/28 | W | W ³ | S. | 1 0 1 | 1 0 5 | | 92 85 | |
| 5/29 | SSW SSW | SSW | 2 2 3 | 10 10 8 | | | 95 90 | |
| 5/30 | SSW SSW | NNW | 3 3 2 | 10 10 8 | | O | 94 92 | |
| 5/31 | W | NNW | W | 1 2 1 | 0 2 0 | 0.600 | 85 78 | |

December 1838

Weather Dr.

- 5 1 Fine A.M. Fair & calm and warm. (from 11 to 12 night)
 0 2 high winds & high temperature, rain in heavy showers. A.M. after a short & sharp storm.
 3 3 Thunder & rain at 6 P.M. fine. Cumuli with distant rumble. A short shower at 7 P.M.
 8 4 Very fine rain in patches. fine A.M.
 9 5 Much cloud with light showers. Night thick & cloudy
 10 6 Cloudy calm weather. clear P.M. Night overcast
 11 7 Small rain shower. & dark. Night fair
 12 8 Fine. air sharp & inclined to frost. Night frosty.
 13 9 Misty. generally cloudy. frosty night with some
 10 10 Fine cloudy till noon. much Cirrus
 11 Bar 29.983 Ther 41.05 Rain 1.155
 12 Very thick dark weather. nearly calm. Misty.
 13 13 Calm mild clear cloudy weather.
 14 14 D D D D D Misty. no break
 15 15 Cloudy till noon. P.M. partly clear.
 16 16 rain at night. fine day. Cumuli. Night & clear at intervals.
 17 17 Dull cloudy weather.
 18 18 Very dark and cloudy. no break. air cold & heavy.
 19 19 Cloudy. Very dark cloudy night. with deep black frost
 20 20 Exceedingly cloudy and gloomy.
 21 21 Cloudy with heat frost A.M. cloudy P.M.
 11 Bar 30.317 Ther 36.89 Rain Rain 0.005
 22 22 Very cloudy. Scattered
 23 23 Fairly & damp & Misty
 24 24 rain in light showers. Cumulus & Scud.
 25 25 Thick with drizzling rain. Scud.
 26 26 Fine. Cumuli. frosty night.
 27 27 Sharp frost till 10 A.M. Cloudy Cumulus & Scud. Fair & sunny
 28 28 fine. Cumuli before sunset. white frost.
 29 29 Clear. P.M. Misty from late (on abundance of fine)
 30 30 Fair. Wind Cumulus & Scud (rising temperature at night)
 31 31 Scud. Wind. very high temperature.

December 1838

Notes.

- 1st after a fine morning it set in raining east & strong SW. Wind after sunset. Very high temperature. Still about 50° all night. (two tenth of rain fell.)
 2 Strong winds with light showers A.M. - Fair in intervals, about 3 P.M. - fine at sunset - dark and stormy at 9 P.M. ending in a thunder storm of even magnitude between 11 &
 12 the lightning very vivid of a yellowish colour. and the claps of thunder which followed each other of remarkable long elevation. Moonlight for 2 or 3 hours after midnight; then was succeeded by another thunder storm over with heavy rain about 6 A.M. on the 3rd.
 3 Day on the whole fine with a dense atmosphere. about 1 P.M. large rumble in various directions, one passed over Greenwich between 6 and 7 o'clock discharging a brisk shower of rain and hail. after which a clear night followed.
 4 Air still getting finer and tending to dry up.
 5 A very wet morning above half an inch of rain fell
 6 for about half an hour between 2d & 3rd we were immersed in nearly total darkness, owing to a dense mass of fog & smoke.
 7 to 20 a series of remarkable cloudy weather with little or no wind.
 21 to 25 Thick and cloudy with small rain.
 26. A very fine deep brisk wind from N.E. frosty, Barometer rises rapidly which is an indication of rain with a southerly wind.
 27 frosty morning. Windy & with rain after dusk.
 28 a very fine day and nearly cloudless Barometer rises rapidly.
 29 A very dry - a rare instance of rain and a very strong wind from the southward with a high Barometer. such a cold weather may be predicted from these circumstances.

H Notes Dec^r 1838

- 30 the air now completely saturated with moisture.
The Temperature of the air was over seven 50°
over abundance of cloud with small drizzling
rain from the Southwest.
- 31 A very fine day in which the Barometer rose to
30 63 about 10 in the evening. soon after 11 P.M.
it began to fall and the sky became overcast
with a veil of liree cumulus of the reticular modification.
Wind and rain with a higher temperature
immediately followed. Wind during the day
North West. at night SW. the upper current from
the North.

BIRTHS; MARRIAGES; DEATHS.

71

At Florence, Henrietta, wife of Capt.
Ricketts, R.N.

At Tavistock-place, on the 4th Decem-
ber, Mr. John Bowman, late Purser, of

H.M.S. Russell.

At Bristol, Ellen, only daughter of
Lieut. G. White, R.N.

TO OUR FRIENDS AND CORRESPONDENTS

The great importance of obtaining a knowledge of the laws of hurricanes, so as to point out the way to avoid their dangers, will, we trust, be sufficient apology for devoting so large a portion of our present number to this subject. More particularly when it includes the contributions of such names as Redfield, Herschel, and Reid.

We are indebted to an unknown friend for the Jamaica Gazette, containing some accounts of the severe hurricane which we have recorded already in our present number. The extract from the log of the "Victress" in p. 423 would have been useful, had she given her position.

Our correspondent, Argus, will see ample reason why we have been compelled to curtail his useful communication, which shall be made up for in our next.

The letter signed J. H. Miller, just received,—Our best thanks for the sentiments it contains.

It is with regret that we find ourselves obliged to reserve the important voyage of the Ship CGREDELIA for our next. It is in type and will assuredly appear.

Mr. REDFIELD's last communication of 3rd Decr. received only in time to appear in the Errata.

We are obliged to Mr. WALKER for his letter. We could not find room for that of CAPTAIN SMITH but have noticed his invention.

The account of the GORGON is as well let alone at present.

Many thanks to Capt. Sir E. Home, for his letter. That of Captain Sir Spencer Vassall will be found in our present number.

Our valued correspondent MR. SNOW HARRIS in our next.

Our best thanks to DR. BOWRING for his pamphlet.

MR. PEACOCK's account of Picton received. He will find the account to which he alludes in our last volume.

The useful contributions of our old esteemed correspondent MERCATOR, (a) are only laid aside to appear in their turn. The account of the October hurricane, will be in its place with others of the same in our next.

"OBSERVATOR" means well, but neither his proposals, nor his calculations will affect either the capitals of Railway, or Steam Navigation Companies.

We have read the paper of "HERODOTUS" attentively, and can see no reason for printing it. The writer must know it would do no good. It is lying for him at 21 Poultry.

We hope to see the paper on TIDES AND TIDE TABLES from our friend Captain Martin, in our next. He will see ample reason for its non-appearance in our present number.

The observations of CAPTAIN STEWART of the barque Montreal, are most creditable to him. We have made our extracts, as his M.S. may be of use to him, it will be found at 21, Poultry.

CAPTAIN BENTLEY, of the ship Calcutta, we hope will see his letter in our next.

A full report of the important law decision concerning DECK-LOADS will also be found in our next.

And now let us unbosom ourselves to our friends.—In the foregoing notices, we have enumerated articles, which alone would fill our "next," besides having a sufficient quantity for that purpose in reserve from former pledges. It cannot but be most gratifying to find the sphere of our usefulness gradually extending itself. Full often have we complained of want of room; but the increased number of our pages, without a corresponding increase in our price, proves our desire to be useful to our brother seamen, rather than to follow the prevailing system (vice, we had almost said) of book-sellers, viz, that of *making money*. When our circulation (which is yet increasing) enables us to do it, we shall still further add to these pages. More we cannot do. The proud station which we occupy at present, of providing the *most useful and most economical periodical extant*, will then be rendered still more so; we know that our work is found at the *further ends of the globe!* and we hope to see it shortly assume a still more important character by an addition to the valuable materials of which it is constructed,

In the mean time we shall also hope for the forbearance of our correspondents, if their communications do not receive immediate attention.

Notes Dec^r. 1838

30 the air now completely saturated with moisture
The Temperature of the outside air seems to
have increased.
rain from the
31 A very fine day
30/63 about 10,
it began to fall
with a veil of
Wind and rain
immediately
North West
the North

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METEOROLOGICAL REGISTER.

METEOROLOGICAL REGISTER.

FROM 21ST NOVEMBER TO 20TH DECEMBER, 1838.

Kept at Croom's Hill, Greenwich, by Mr. W. ROGERSON, of the Royal Observatory.

| Month Day. | Week Day. | BAROMETER. | | FAHR. THER. In the Shade. | | | | WIND. | | | WEATHER. | |
|------------|-----------|------------|----------|------------------------------|--------|------|------|----------|-----------|------|----------|----------------------------|
| | | | | 9 A.M. | 3 P.M. | Min. | Max. | Quarter. | Strength. | | A.M. | P.M. |
| | | In. Dec. | In. Dec. | | | | | | 9 A.M. | P.M. | | |
| 21 | W. | 29.10 | 29.32 | 37 | 39 | 35 | 40 | E. | E. | 5 | 6 | ofr. |
| 22 | Th. | 29.17 | 29.18 | 42 | 48 | 39 | 49 | NE. | SE. | 2 | 2 | ofr. (1)(2) |
| 23 | F. | 29.50 | 29.50 | 41 | 40 | 38 | 43 | NE. | NE. | 3 | 4 | be. |
| 24 | S. | 29.55 | 29.60 | 37 | 37 | 35 | 38 | NE. | NE. | 4 | 4 | og. |
| 25 | Su. | 29.96 | 29.98 | 30 | 36 | 25 | 37 | NE. | NE. | 2 | 1 | be. |
| 26 | M. | 29.85 | 29.83 | 31 | 30 | 28 | 32 | E. | E. | 2 | 4 | be. |
| 27 | Tu. | 29.46 | 29.24 | 32 | 34 | 24 | 39 | SE. | E. | 6 | 6 | qo. |
| 28 | W. | 29.04 | 28.66 | 42 | 46 | 37 | 52 | SE. | SE. | 5 | 9 | qor. (2) qolr. (3) (4) |
| 29 | Th. | 28.66 | 28.64 | 46 | 50 | 46 | 52 | SW. | SW. | 9 | 10 | qtr. (1)(2) qbelr. (3) (4) |
| 30 | F. | 28.96 | 29.10 | 47 | 51 | 45 | 53 | SW. | SW. | 6 | 6 | qthr. (1) qbe.) |
| 1 | S. | 29.55 | 29.53 | 46 | 51 | 43 | 55 | S.W. | SW. | 5 | 5 | Be. |
| 2 | Su. | 29.46 | 29.44 | 53 | 54 | 51 | 57 | S.W. | SW. | 5 | 6 | qtr. (4) qbelr. (1) |
| 3 | M. | 29.45 | 29.45 | 45 | 51 | 44 | 51 | S.W. | SW. | 3 | 4 | be. |
| 4 | Tu. | 29.54 | 29.60 | 40 | 47 | 39 | 48 | S.W. | SW. | 3 | 3 | be. |
| 5 | W. | 29.81 | 29.90 | 39 | 45 | 35 | 46 | W. | NW. | 3 | 4 | Od. (2) bep. 3) |
| 6 | Th. | 30.23 | 30.27 | 39 | 41 | 39 | 43 | W. | W. | 1 | 1 | O. |
| 7 | F. | 30.24 | 30.26 | 47 | 45 | 35 | 47 | W. | NW. | 2 | 2 | Or. (2) |
| 8 | S. | 30.32 | 30.33 | 35 | 40 | 33 | 41 | N.W. | W. | 2 | 3 | be. |
| 9 | Su. | 30.40 | 30.36 | 31 | 33 | 30 | 34 | N.W. | NW. | 2 | 2 | be. |
| 10 | M. | 30.24 | 30.20 | 31 | 36 | 24 | 37 | S.W. | W. | 2 | 1 | be. |
| 11 | Tu. | 30.26 | 30.20 | 37 | 40 | 32 | 42 | S.W. | W. | 1 | 1 | Or. |
| 12 | W. | 30.32 | 30.30 | 38 | 43 | 38 | 44 | S.W. | W. | 2 | 2 | o. |
| 13 | Th. | 30.31 | 30.31 | 41 | 42 | 39 | 45 | S.W. | W. | 2 | 2 | o. |
| 14 | F. | 30.38 | 30.36 | 40 | 41 | 40 | 44 | W. | NE. | 1 | 2 | bed. (4) |
| 15 | S. | 30.34 | 30.31 | 36 | 38 | 34 | 40 | N.E. | NE. | 2 | 2 | be. |
| 16 | Su. | 30.36 | 30.36 | 36 | 37 | 32 | 38 | E. | NE. | 2 | 2 | Og. |
| 17 | M. | 30.34 | 30.30 | 33 | 33 | 32 | 34 | S.E. | E. | 1 | 1 | og. |
| 18 | Tu. | 30.29 | 30.25 | 33 | 35 | 32 | 36 | E. | E. | 1 | 2 | bem. |
| 19 | W. | 30.19 | 30.15 | 32 | 35 | 30 | 36 | S.E. | SE. | 1 | 1 | o. |
| 20 | Th. | 30.16 | 30.18 | 33 | 42 | 29 | 43 | S. | S. | 2 | 2 | be. |

NOVEMBER—Mean height of the Barometer = 29.515 inches; Mean temperature = 41.1 degree.

Depth of Rain fallen = 3.00 inches.

Note.—At the end of November, and also at the beginning of December, the weather was very
equally attended with heavy showers of rain and hail, and brilliant flashes of lightning with loud
peals of thunder.

Abbreviations used in columns "Weather," and "Strength of Wind."

WIND.

WEATHER.

| | |
|--------------------|--|
| 0 Calm. | b Blue Sky—whether clear or hazy atmosphere. |
| 1 Light Air. | c Clouds—detached passing clouds. |
| 2 Light Breeze. | d Drizzling Rain. |
| 3 Gentle Breeze. | f Foggy—f Thick fog. |
| 4 Moderate Breeze. | g Gloomy, dark weather. |
| 5 Fresh Breeze. | h Hail. |
| 6 Strong Breeze. | i Lightning. |
| 7 Moderate Gale. | m Misty hazy atmosphere. |
| 8 Fresh Gale. | o Overcast—or the whole sky covered with thick clouds, |
| 9 Strong Gale. | p Passing temporary showers. |
| 10 Whole Gale. | q Squally. |
| 11 Storm. | r rain—continued rain. |
| 12 Hurricane. | s Snow. |
| | t Thunder. |
| | u Ugly threatening appearances. |
| | v Visible clear atmosphere. |
| | w Wet Dew. |
| | x Under any letter indicates an extraordinary degree. |

The Figures in the Weather Columns.—1 denotes the first six hours of the day, i.e., from midnight to 6 A.M.; 2 from 6 A.M. to noon; 3 from noon to 6 P.M.; 4 from 6 P.M. to midnight. The marks (and) signify the first and last half of these intervals, and both together denote the whole interval. They are intended to express the time nearly when rain or snow fell. Thus 2) signifies that rain or snow fell between 9 A.M. and noon; (1) between midnight and 3 A.M.; and (2) that it rained or snowed the the whole six hours from 6 A.M. to noon; (3) ditto from noon to 6 P.M. &c.

LONDON: T. STANLEY, PRINTER, 17, BARTLETT'S BUILDINGS, HOLBORN.

Results for the Year 1838

Barometer.

| 1838 | Greater Height | Least Height | Mean Height | M ^o Height corrected for 50° of Fahrenheit. | Years fallen |
|------------------|----------------|--------------|--------------------------------|--|-------------------------|
| Jan ⁷ | 30.442 | 42 | 29.350 | 36 | 29.946 40 |
| Feb ⁷ | 30.420 | 42 | 28.665 | 49 | 29.643 43 |
| Mar ⁹ | 30.575 | 52 | 29.068 | 53 | 29.865 52 |
| April | 30.302 | 56 | 29.248 | 48 | 29.825 53 |
| May | 30.456 | 57 | 29.550 | 57 | 29.937 60 |
| June | 30.300 | 60 | 29.562 | 63 | 29.914 65 |
| July | 30.330 | 67 | 29.640 | 65 | 30.039 67 |
| Aug ^t | 30.278 | 65 | 29.280 | 65 | 29.968 66 |
| Sept | 30.600 | 63 | 29.340 | 63 | 30.038 63 |
| Oct | 30.465 | 59 | 28.940 | 59 | 30.025 58 |
| Nov | 30.452 | 48 | 28.650 | 52 | 29.578 50 |
| Dec | 30.635 | 49 | 29.330 | 49 | 30.110 48 |
| | | | | | 358.674 |
| | | | M ^o Height for 1838 | 29.891 | Total = 21.685 for 1838 |

Thermometer

| | Min | Max | Mean | M ^o H. Radiator |
|------------------|-------|-------|-------|----------------------------|
| Jan | -4.0 | +48.2 | 28.28 | -5° |
| Feb | +16.8 | 50.0 | 33.31 | +15½ |
| Mar | 28.2 | 59.2 | 41.94 | 26 |
| Apr | 21.1 | 63.0 | 43.16 | 19½ |
| May | 28.5 | 72.8 | 57.80 | 25½ |
| June | 36.4 | 76.5 | 58.91 | 34 |
| July | 42.5 | 81.5 | 61.40 | 39½ |
| Aug ^t | 41.9 | 78.8 | 61.26 | 39½ |
| Sept | 35.5 | 72.6 | 55.40 | |
| Oct | 28.5 | 62.8 | 50.76 | 26½ |
| Nov | 25.8 | 58.0 | 40.97 | 24 |
| Dec | 24.5 | 56.0 | 38.21 | 23 |
| Mean | | | 47.12 | |

Mean exposure for 1838
at 50° of Fahrenheit
= 29.891

Mean heat = 47.12.

Depth of snow including snow
= 21.685 inches

January 1839

| Bar 9 AM | Bar 3 PM | Bar 10 PM | Thermometer | | | | | | Daily Solar Var. | Mean Temp. | Tabular Mean 20 years | Diff from Tabular Mean | Suns Height noon | | | |
|----------------|-------------|--------------|-------------|-----------|-------|--------|--------|--------|------------------------|---------------|--------------------------------|---------------------------------|------------------------|--------------------|-------|--|
| | | | 8 AM | 12 PM | 1 PM | 10 PM | Min | Max | | | | | | | | |
| 81 30.402 48 | 30.245 49 | 30.08 | 39 44 42 47 | 32.0 45 2 | 13 2 | 38.60 | 35.77 | +2.83 | 15 28 | 1 | W S | W | W N | 3 3 2 10 7 9 | 90 87 | 29 61x 9.295 |
| 82 30.085 50 | 30.100 51 | 30.09 | 44 46 43 43 | 41.0 48.0 | 7.0 | 44.50 | 36.95 | +8.35 | .33 | 2 | W N | W N W | W S W | 2 3 2 6 4 9 | 78 73 | 38 |
| 83 30.000 52 | 29.890 53 | 29.70 | 45 47 46 47 | 41.0 47.4 | 6.4 | 44.20 | 34.89 | +9.31 | .38 | 3 | W S W | W S W | W S W | 2 3 4 3 10 10 | 90 82 | 38 |
| 84 29.600 53 | 29.615 53 | 29.75 | 40 43 42 34 | 40.0 45.1 | 5.1 | 42.55 | 35.33 | +7.22 | .44 | 4 | W. | W S | W S W | 2 3 3 10 4 0 | 96 72 | 40 |
| 85 29.746 50 | 29.625 50 | 29.63 | 34 40 38 33 | 32.2 42.0 | 9.8 | 37.10 | 34.48 | +2.62 | .51 | 5 | W | W | S W | 3 3 2 6 4 2 | 85 79 | 30 |
| 86 29.750 47 | 29.581 47 | 29.26 | 32 36 35 50 | 31.0 51.0 | 20.0 | 41.00 | 35.00 | +6.00 | .58 | 6 | S. E. | S. E. S | S W | 1 2 4.5 10 10 8 | 85 92 | 29 8 |
| 87 29.122 50 | 29.155 51 | 29.25 | 41 44 37 36 | 35.0 51.8 | 16.8 | 43.40 | 35.78 | +7.62 | 16.5 | 7 | W S | W | W | 4 4.3 5.5 3 | 72 72 | 42 |
| 88 29.575 47 | 29.604 48 | 29.58 | 33 36 36 34 | 32.0 38.0 | 6.0 | 35.00 | 35.16 | -0.16 | 12 | 8 | W N | W S W | W | 3 3 2 1 7 6 | 83 68 | 30 |
| 89 29.755 46 | 29.950 46 | 30.20 | 32 33 32 28 | 30.9 33.6 | 2.7 | 32.25 | 35.05 | -2.80 | 21 | 9 | N S | N N W | W | 3 3.2 1 2 0 0 | 70 62 | 29 8 |
| 90 30.310 43 | 30.256 45 | 30.28 | 27 36 36 37 | 25.0 39.1 | 14.1 | 32.05 | 36.00 | -3.95 | 29 | 10 | S W | S W | S W | 2 2 3 2 2 8 | 91 82 | 23 |
| 29.8345 49 | 29.8021 49 | | | 36.01 | 44.12 | 10.11 | 39.065 | | | | | | | 0.300 | 32.8 | Results |
| 91 30.194 47 | 30.135 48 | 30.11 | 41 44 45 48 | 34.0 45.5 | 11.5 | 39.75 | 36.67 | +3.08 | .39 | 11 | S W. | S W | S W | 2 2 2 10 10 10 | 85 87 | 30 Bar Max 30.610 the 23 rd |
| 92 30.199 53 | 30.280 53 | 30.26 | 48 47 45 40 | 44.0 49.9 | 5.9 | 46.95 | 35.67 | +11.28 | .48 | 12 | W N | W N | S W | 1 1 3 7 7 8 | 85 72 | 41 Bar Min 29.000 the 30 th |
| 93 30.080 53 | 30.010 53 | 30.05 | 50 50 47 38 | 38.0 51.1 | 13.1 | 44.55 | 35.00 | +9.55 | .58 | 13 | W S | W S W | W S W | 3 3 1 10 10 6 | 85 87 | 36 Mean at 9 AM 29.950 |
| 94 30.030 55 | 29.874 55 | 29.81 | 40 46 42 38 | 40.0 46.2 | 6.2 | 43.10 | 36.35 | +6.75 | 17 8 | 14 | W | W N W | W S | 1 1 2 10 10 7 | 90 90 | 38 Mean at 3 PM 29.913 |
| 95 29.886 51 | 29.850 50 | 29.99 | 33 40 40 34 | 33.3 21 6 | 8.3 | 37.45 | 34.17 | +3.28 | 19 | 15 | W N | W N W | W W N | 3 1.3 2 2 7 2 | 85 70 | 31 |
| 96 29.989 47 | 29.951 47 | 30.04 | 33 37 35 31 | 29.8 37.5 | 7.7 | 32.65 | 34.55 | -0.90 | 30 | 16 | W N W | W N W | W N W | 1 2 2 5 8 3 | 86 77 | 29 Ther Max 51.8 the 7 th |
| 97 30.055 45 | 30.056 45 | 30.16 | 27 31 35 29 | 26.5 35.5 | 9.0 | 31.00 | 35.59 | -4.59 | 12 | 17 | N W | N W | N W W | 1 1 1 5 9 0 | 80 72 | 24 Ther Min 20.5 the 30 th |
| 98 30.215 43 | 30.182 43 | 30.08 | 25 31 32 32 | 24.5 34.6 | 10.1 | 29.55 | 36.17 | -6.62 | 51 | 18 | W | W S | S W | 1 1 3 2 4 10 | 90 79 | 24 Mean Temp 37.06 |
| 99 29.620 46 | 29.525 47 | 29.90 | 42 47 41 32 | 29.2 47.8 | 18.6 | 38.50 | 35.32 | +3.18 | 18 6 | 19 | S W. | N N W | W | 2 3 10 9 8 | 87 80 | 26 Solar Var. 9.76 the |
| 100 30.076 45 | 30.050 47 | 29.83 | 34 32 43 46 | 31.0 43.8 | 12.8 | 37.40 | 36.41 | +0.99 | 18 | 20 | W S W | S W | W | 3 2 3 7 9 10 | 85 77 | 29 Min of Rad. 20 the 30 th |
| 30.0343 49 | 29.99 13 50 | | | 33.03 | 43.35 | 10.3 2 | 38.690 | | | | | | | 0.090 | 30 9 | |
| 21 29.725 52 | 29.756 53 | 29.91 | 48 50 42 38 | 41.4 50.8 | 9.4 | 46.10 | 36.32 | +9.78 | .32 | 21 | W | N E | N E | 1 1 1 10 10 7 | 96 97 | 39 Diff from Noon |
| 22 30.130 47 | 30.240 47 | 30.41 | 31 37 36 32 | 30.5 37.6 | 7.1 | 34.05 | 36.59 | -2.54 | .45 | 22 | N . | N | N | 2 2 1 2 2 7 | 87 80 | 29 of 20 Years + 0.95 |
| 23 30.565 47 | 30.585 47 | 30.61 | 34 38 37 35 | 31.6 39.1 | 7.5 | 35.35 | 36.52 | -1.17 | 19 0 | 23 | N | N W | W | 1 1 1 8 7 8 | 90 82 | 30 |
| 24 30.570 47 | 30.500 48 | 30.42 | 32 37 42 40 | 29.5 42.0 | 12.5 | 35.75 | 37.39 | -1.64 | 13 | 24 | N W | N W | W | 1 2 2 8 9 5 | 87 83 | 29 Amount of Rain & Snow |
| 25 30.149 47 | 30.018 48 | 30.00 | 41 46 43 38 | 35.4 46.0 | 14.6 | 40.76 | 37.56 | +3.11 | 27 | 25 | W N W | N N W | N | 3 2 2 9 8 10 | 85 75 | 33 Crossing (1.225) |
| 26 30.198 47 | 30.245 47 | 30.40 | 32 37 33 32 | 31.6 37.2 | 5.6 | 34.40 | 37.81 | -3.41 | 42 | 26 | N E | N E | N E | 2 3 5 8 7 | 87 85 | 30 |
| 27 30.380 43 | 30.300 43 | 30.27 | 31 35 33 31 | 27.2 34.1 | 4.9 | 31.65 | 37.65 | -6.00 | 57 | 27 | N E | N E N | N E | 3 2 0 10 10 8 | 80 74 | 28 N° frosty nights 19 |
| 28 30.052 43 | 29.905 43 | 29.72 | 28 33 34 30 | 25.6 35.2 | 9.6 | 30.40 | 37.52 | +7.12 | 20 13 | 28 | N | N W | W | 0 0 1 8 9 8 | 87 80 | 24 |
| 29 29.628 43 | 29.426 44 | 29.17 | 29 36 37 33 | 27.0 37.2 | 10.2 | 32.10 | 37.59 | -5.49 | 28 | 29 | N N W | W N W | W N W | 2 2 4 5 10 6 | 85 74 | 26 |
| 30 29.296 42 | 29.155 42 | 29.00 | 21 29 29 27 | 20.5 31.8 | 11.3 | 26.50 | 36.95 | -10.45 | 45 | 30 | W N | W | N W | 2 3 4 3 3 10 10 | 74 80 | 20 |
| 31 29.223 42 | 29.330 43 | 29.75 | 27 32 31 27 | 26.6 34.0 | 9.4 | 29.30 | 37.15 | -8.15 | 21 1 | 31 | N W. | N E | N W | 3 1.21 7 8 5 0.835 | 90 81 | 24 |
| 29.991 45 | 29.948 46 | | | 29.66 | 38.63 | 8.92 | 34.21 | | | | | | | 1.225 | 311 | |
| Mean 29.955 48 | 29.913 49 | | | 32.17 | 41.93 | 9.76 | 37.06 | 36.11 | | | | | | | 306 | |

January 1839

| Wind | Wind | Wind | Clouds | Rain | Dew | Precip. | Snow | Rad. |
|------|-------|-------|--------|---------------|-------|---------|------|------|
| | | | | | | | | |
| 1 | W S | W | W N | 3 3 2 10 7 9 | 90 87 | 29 | | |
| 2 | W N | W N W | W S W | 2 3 2 6 4 9 | 78 73 | 38 | | |
| 3 | W S W | W S W | W S W | 2 3 4 3 10 10 | 90 82 | 38 | | |
| 4 | W | W S | S W | 2 3 3 10 4 0 | 96 72 | 40 | </td | |

January 1839
Weather Dr.

8 1 Wind very light. light showers - high temperature.
9 2 Windy - cloudy. loose Amuli.
2 3 D^r fine & clear from 8 till noon. P.M. cloudy. Stompy night
9 4 Rain till 9 A.M. fine day with a moderate gale. Clear night
5 5 from Windy Amuli. & snow com in groups. Clear at night
0 6 Amuli-shower. Snow from 2 to 3 P.M. Eve rainy. Night Temperature same.
2 7 A heavy gale. Amuli. A shower of rain & sleet at sunset. Night partly clear.
3 8 A thuster of snow at 7 A.M. high wind in squalls. Lightning at night from 12
4 9 Snow at 7 A.M. Windy & cloudy. with frost.
2 10 Exceedingly clear & fine weather. An aurora at night. Cloudy

Mean Bar. 29.818 M^r Thor 39.07 Rain 0.30

9 11 Damp. Cloudy weather w^t drizzling rain
5 12 Mostly cloudy rather hazy. Night cloudy & cloudy
0 13 Snow with a gale - Night partially clear
2 14 Aurora. Rain till 6 P.M. when it cleared up. brilliant Aurora.
8 15 Rain & sleet at 1 A.M. Bleak high winds. Eve clear & frosty.
8 16 A shower of snow at 8 A.M. fine with Amuli. frosty night & clear
2 17 Sharp frost and dry. P.M. cloudy. Clear night w^t white frost
9 18 D^r D^r Frosty from smoke. P.M. clear. Cloudy night
5 19 Stormy with rain till 3 P.M. - fine night. Many Amuli
0 20 Amuli with wind. Eve Windy with light rain

Mean Bar. 30.013 M^r Temp 38.19 Rain 0.09

3 21 A very wet day - Wind changes to N. at 1 $\frac{1}{2}$. P.M.
3 22 brisk wind. nearly cloudy Amuli.
2 23 Mostly cloudy & slight frost at night
2 24 D^r D^r
9 25 Squally. Night cloudy with some sleet
5 26 fine at sunrise. Amuli with some showers
0 27 Cloudy, and cold, with wind.
2 28 clear at sunrise day overcast. Amuli. Snow. Snow at night
3 29 fine A.M. afternoon. Stormy with snow & rain. Wind with severe frost
8 30 intense frost. Strong wind - Snow showers. Night stormy with snow
2 31 Showers of snow

Mean Bar. 29.934 M^r Thor 34.21 Rain 0.835
x snow.

January 1839
Notes.

- Barometer sinks with a Westerly wind accompanied with a very high Temperature. Sunk at time drizzling rain.
- and 3 very Windy days. Woodpecker at work, among the trees in the Park. Robin singing all day.
- N.B. On the night of the 3 an extensive Aurora from 5 P.M. to 7 when it became perfectly cloudy. The upper atmosphere extremely clear. but the least particle of Venus discernible. On the evening of the 3 at 6 P.M. the Zodiacal light seen. Wind rises to a gale from WSW.
- After a rainy Morning. a very clear day succeeded. Wind blows hard from the West. Night remarkably clear, such was the brilliancy and clearness of the atmosphere that a bright S.Polo was seen in the Second Instrument at the Royal Observatory, which State in this Latitude is just in the Horizon, when it passes the Second North Meridian. The Wind blowing a moderate gale from the West. and the Temperature a little above the freezing.
- Buddingly clear blue sky with some Amuli. Wind blows rather strong fr^t m the West. Barometer sinks. strong wind from the SW with a temperature just about the freezing point; ice on ponds.
- Bar. rose before sunrise a tenth and soon after falling again. Overcast with Cirrostratus cloud. Breaking at 2 P.M. ending in rain. soon after I noted the Temperature ^{in Sky} stood over 12 degrees in 3 hours and at midnight ^{in Sky} about 51. It then began to blow a violent gale from SW & W. Gusts diminishing till 5 A.M. on the 7th (29.045). lightning seen. about 5 A.M. when the most violent gust took place. (for a detailed account of this dreadful night see Notes attached to the end of this Month.)

Notes for Janst. 1839 Continued.

- and Wind.
- Jan 7. Wind very high Comule a little before sunset a shower of Snow mixed with Sleet & Hail after which it cleared up. Several flashes of lightning to S. & S.E. after dark.
- 8 A light shower of Snow a little before sunrise. very heavy till 2 P.M. when it became overcast with violent gusts of Wind. and light showers of Sleet mixed alternately clear & cloudy.
- 9 Snow in showers before sunrise succeeded by a gale of Wind from the NW with a clear frosty sky by sunset the ground frozen hard, frost from London Smoke;
- 10 Clear Comule sky beautifully bright and clear the ground still hard and dry from last night frost. Temperature of air. mild for the season soon after sunset an Aurora borealis of great magnitude appeared. in a field of light extending from West to N.E. at 8 P.M. streamers issued towards the Pole as high as Polaris; clouds came on about 9. but so strong was the light that it penetrated them the interstices of the clouds like the Moon & earth in her 1st quarter - a cloudy day of Proressing vacillated Barometer rather falling.
11. A day of cloudy day with W. Wind. high nocturnal Temperature.
- 12 Wind suddenly changes to NW at 8^{1/2} A.M. Comule with high Temperature still very high.
- 13 frie. 8 a.m. with brilliant Arch of Aurora borealis several large meteors seen about 7. near the constellation Orion. After midnight some showers of rain & hail.
- 14 thin ice at sunrise. It has blown a heavy gale this day from the West and North West.
- 15 frosty with an abundance of fine Wind in turns to go to SW - From the Northward small Comule in groups. indication of higher temperature.
- 16 Playing from the SW. with rain for 2 or 3 hours at 3 P.M. the Wind got to the NW introducing

- a clear atmosphere. the pressure had given way $\frac{3}{4}$ of an inch from 10 P.M. on the 18th to noon of the 19th after which it ran half an inch before midnight. Many brilliant Comule immediately after dusk which continued through the whole night. Large streamers reaching to the Pole between the hours of 10 & 12 - an unusual number of large Meteors noticed for these few last nights.
- 21 an unusually rainy day the Wind changed from West to North about 4 P.M. introducing a much lower temperature. it rained however pretty steadily till 9 P.M.
- 22 See by 8 A.M. strong breeze from the Northward - little or no evaporation, clear Comule. Barometer rising too fast for the Wind to continue in the same quarter long.
- 23 A constantly dry - Wind with Snow showers, ground just covered with Snow after sunset.
- 24 Snow at Night in showers.
- 25 Country white with Snow. Thawing at noon winds at 2 P.M. the Wind changes to WSW. overcast with Comule and Barometer falls fast. Wind Snow rain succeeded. till near midnight.
- 26 Snow at midnight followed by a gale from West and NW. with an intense degree of cold. Then at 2^o. at 5 A.M. the Bar. rose nearly a tenth. before sunrise. A Windy bleak day followed with showers of snow. (pressure has diminished 0.15 from Noon to Sunset). soon after 8 P.M. the Wind blew a gale from the Westward and at 10 increased to a storm from NW & North. with a fall of Snow till 12 at night.
- 27 It continued to blow hard with Snow showers till near noon from the N.W. suddenly the Wind abated and veered back to W and SW. south. and so round to East. and finally by 2 O'clock P.M. North East. Light shower, at intervals, the Pressure at 9 A.M. ^{of Snow} 29.22 at noon 29.19 immediately upon the change of Wind it rose rapidly

January Contd.

Notes

31st, progressing to its usual mean height. the barometer during this singular period 29.00 at 11 P.M. on the 30th. (during the most violent gusts from N.W. with heavy rains.)

About the 12th of Jan^r a great Earthquake at Martinique

Notes Contd. Jan^r 7

from the Times Jan^r 1839
Cruel and Destructive Hurricane

Liverpool, Monday Morning Jan^r 7
1839

Last night, about 11 o'clock, the wind, which had been south-east all day, and which induced a number of vessels to put to sea, suddenly veered round to the west, blowing a complete hurricane. Immense destruction has been made in the buildings in the town and its vicinity, while on the adjacent coast the number of wrecks is truly awful. Bootle Bay is covered with wrecks. Twelve are on shore in the space of a mile, and several, it is feared, are wrecked on the banks.

From the Liverpool Albion.

Last night, about 11 o'clock, the wind, which had been blowing strong all day from S.E., which induced a number of vessels that had been windbound

Jan⁷ 1839

Notes Cont'd.

2

to put to sea, suddenly veered round to the S. by E.
About 10 o'clock the wind blew a complete hurricane
having, in the mean time veered round to due W.
The effects of this dreadful storm have as might
have been expected from its extreme violence been
truly awful in the destruction both of life and property.
Numerable buildings in the town and the vicinity
have been seriously damaged while at the moment
we write not less than six persons have been ascer-
tained to have lost their lives by the fall of the
ruins.

Further particulars from the M. Advertiser Liverpool Jan 9th 1839
Monday 5th Decr
The disasters in the river and the docks have
been very great. The masts of two vessels were
seen in the river and were said to be the
Victor and the admiral Leconch. ferry boat
The Master and mate of the former perished
A great many kegs 14 or 15 in number on those
the Bidston Telegraph blown down.

The Coroner has held 15 inquests on persons
killed during the storm.

Jan⁷ 1839

Notes Cont'd.

3

The North West light ship has been driven from
her mooring.

Monday 7th Jan 5 PM

The gale still increases with a heavy shower
of sleet. A boat in attempting to reach the ship
Cambridge (which was in distress) upset and
5 men perished. Of this hour the gale is
absolutely terrible. - A dismal night awaits us

A private letter says that the storm on the
coast of Wales was even then at Liverpool
The Menai Bridge is so shattered that all
communication is destroyed.

At Carmarthen much damage is done

Portsmouth Jan 7 It blew a heavy gale from SW all last
night.

Hull Jan 7 A tremendous gale from WSW.

Wexham Jan 7 It blew a dreadful gale all last night.

Lancaster Jan 7 It blows a hurricane last night.

Jan⁷ 1839 Weather near London -

The storm of Sunday evening has been productive of much mischief in the vicinity of the metropolis; several trees in Hyde and St. James's parks have been levelled with the ground, and much damage done to the houses. There is too much reason to fear that in a day or two disastrous tidings will be received from sea. The account given of the storm by policemen who were on night duty is, that it was so tremendous that they could scarce lay hold upon their legs. In the neighbourhoods of Islington, Camden Town, Holloway, and Finch Town, numerous chimneys &c., were blown down and considerable damage sustained.

Sheerness

Jan 8. It has blown very strong from SSW to NWW for the last 48 hours. Early this morning the North light vessel was driven about a mile below the Station.

From the Morris
Admiralty Jan 10. 1839] ⁵ Further Account of the Storm
Tuesday
Liverpool Tuesday Jan 8/39

The effect of the recent hurricane are now beginning to manifest themselves. The New York packet liner suffered dreadfully - on the fine ship Pennsylvania totally wrecked with her crew and passengers. Some one and another is going to pieces in Boole Bay * A number of smaller vessels likewise sunk or dermasted together with their crews.

In the city of Cheltenham great damage done many houses blown down and unroofed and the South Transept of the Cathedral injured by the falling down of one of the buttresses of the Tower. The great jail likewise much damaged by the falling in of the parapet wall.

A John Marsh injured severely all the windows shattered and one of the pinnacles blown down

Monchester. The damage in this town very great several lives lost by the falling in of houses roofs and walls. and loss of property considerable.

* Note the three ships which were totally wrecked were the Pennsylvania, the Larchwood, and the St. Andrew. New York vessel, cargo of which stated to be worth 500,000 £.

January 1839
Birmingham

6

There is not a thatch in the Town but more or less damage has been done. Stacks of Chimney falling into houses trees lying about the roads near Town. Loss of life in two instances. The top of the Town Hall is raged with lead nearly three fourths of which is taken off - Sheets weighing from 12 to 15 cwt each were blown from a height of 100 feet forty yards distance against houses opposite - a newly erected chimney of the Biblical works, upwards of 300 feet high near Birmingham partially blown down.

Hull. A Tempest has visited this Town such as has not been known for many years, occurring much damage & loss of life about 10 feet of an Octagon Chimney attached to the new Steam Coal Mill in Winckleby fell into the River about 5 in the morning. The road top and sails of a fifty ton Triggett called the Coote Mill was severed from the machine one of the Pinnacles with the vomit pile from Chest Church through the roof into the Gallery

Jan⁹ 1839

The gable end of Mr. Walton's house in Westgate street gone away and falling upon completely destroyed the Vestry of the Tabernacle - during the day one could scarcely enter a street or garden in the Town but it would be strewn with fragments of broken pots and tiles. Bricks and mortar - (we have not sufficient room to detail other enormous accidents,) but from all accounts we must agree that the Storm here below has exceeded any thing known for a long period of time -

Dublin.

This Metropolis was last night visited by a hurricane such as the oldest inhabitants cannot remember - unbounded in its fury, and unlimited in its extent. Accounts are pouring in upon us from all quarters of its shrill and irreparable effects.

The tempest commenced at 10 from the I.S.E., and varied in the course of the night frequently from that to S.S.W.; and though towards six this morning its fury in some degree abated, yet it still continues to blow an ordinary gale of wind.

Dublin, in many places presents the appearance of a sacked city. Houses burning - others unroofed as if by storm of shot and shell - a few levelled

January 1839

8

with the ground, with all their furniture within, while the rattling of engines, cries of firemen, and labour of the military, present the very aspect and memory of real war.

There is scarcely a street, nay scarcely a house which does not bear the impress of this dreadful calamity. The country around has equally suffered. The dire disasters of the sea remain as yet untold; but that they have been grievous we must expect to hear. Perhaps no part of the metropolis or its vicinity has suffered more from the hurricane of last night than the Royal Hospital. Commencing with the bend at the Military Road almost every tree is levelled with the ground. The beautiful avenue of trees which led to the "Old House" no longer exists. The magnificent back avenue of alders which terminated at Kilmainham, is almost totally destroyed.

So far as accounts have yet reached us it appears that the Tempest was generally felt throught the Country.

The Stage Mail which left Dublin last night was upset by the force of the Wind near Kingstown.

The guard of the galaxy coach reports that there were several houses on fire in the Town of Kingstown. Trees of immense size, lying across the road in various quarters impeded the progress of the coaches.

The most disastrous intelligence continues to be received from all parts of the country - Cabins, wreathed by whelwind and flacks of earth & hay scattered in all directions.

Dublin Jan 7/39

9 Jan 1839

Continuation of the Memo of Jan⁷ 6th 39

near Limerick 100 houses and a million of property have been destroyed by sea and land by the hurricane. The Augars on board the Pennsylvania and the H. Andrews were alone of the value of from 100,000 to 500,000.

Wolverhampton

Wolverhampton - was visited on Sunday Jan⁷ in the night by a storm of the most unusually terrific character. Scarcely a street is without overturning timber, or other injury. The iron work damaged for Harker Laving been blown down. The lead upon at the top of the Assembly rooms in Queen Street was torn up of the weight of about 6 or 7 cwt and after having been rolled over was carried to the distance of 20 or 30 yards and about 100 trees in the Chiltington estate have been blown down &c &c

Sunderland Jan 7 Early this morning a gale came on with the wind at SSW and continued to blow very heavy during the whole of the day. the wind changed to SW and afterwards to W. The consequences have proved more disastrous than any storm in the memory of the oldest inhabitants attended with great loss of property and 4 persons killed

January 1839

40

Preston On the same night a dreadful storm
4 or 5 individuals said to be killed by the
falling of roofs &c

grappled together with cloud winds in the most
remote parts of their premises.

Bridlington A storm rarely even witnessed
here scarcely a house escaped without
injury. and nearly all the shops closed
for the day 3 Windmills destroyed as well
as other buildings. 3 men lost *

Oldham The storm here very violent

Ashford &Italybridge - Hurricane: south attended
with destruction of lives and valuable property

Bury - Hurricane with destruction of chimneys
of roofs of houses &

Rockdale. Balton & Didsbury Great storm of wind

Worcester A long catalogue of accidents occasioned
by the violence of the storm of Jan⁶ & 7

Blackburn A vast destruction of factory
chimneys, no less than eleven. the loss
of property in this neighbourhood very great

Preston Todmorden. Halifax & the fury of the
storm very great here 2 miles entirely blown
down. at Halifax a small house blown down
and the woman with her children killed by its
fall

Humber. Thirty houses are reported to
have been blown down.

The Scarborough Mail blown over between
Bridlington and ~~Hornby~~ Hornsby -

Note. * It appears that at Bridlington the barometer fell to 28.35

January 1839

Scotland

12

Dumfries. A tremendous storm. commenced at 10 o'clock Sunday night Jan⁶. Wind S. but that after 10 o'clock Monday morn Jan⁷ it got round to the N. and blew with unceasing fury. The walls of ^{house} - - - - - shook. every bed vibrated. plates cans chimneys were perpetually heard falling even solid lead proved unserviceable to its weight; panes and casements were wrenched from their holdings shock succeeded shock and the noise during the entire night was more deafening than the battle field many persons never went to bed at all, while some did, enjoyed little, if any repose. wailing soun of indescribable expression pervaded the air and especially theussian blast rose and fell did away in distance to return with accumulated fury.

To particularize every case of havoc would be impractical at present 10 or Sunday morn Jan⁶. the Bar stood at 29.45 at the same hour at night it was 28.65 and about a quarter past 5 Monday morn⁷ from it stood ^{as} low 28.0 - -

"Glasgow.

" Sir John Robison à St. Arago que pendant la " "la tempête du 7 janvier 1839, le baromètre, à Edinburgh, descendit " au moment du minimum (5. 30) de moins, à 27.65 = 102.30 " "Un abaissement extraordinaire de la colonne mercurelle se manifesta dans quelques endroits à Glasgow, par exemple, avant que le vent commençât à siffler. A Edinburgh, pendant quelques sortes brefs, Sir Robison constata que la pression sur un pied carré anglais de surface plane, dépassait à peu près 1839 No 5 4 fevrier

continuation of the Storm on Jan⁷ (13)

Ireland

On no previous occasion have the devastating effects of a storm been so general as that of Sunday night and Monday last. The accounts from every quarter of the kingdom are really appalling. In Athlone forty five houses were blown down. Major General Sir Parker Connell commanding the district narrowly escaped being crushed by the fall of a stack of chimneys in the general's house. Entire ricks of hay and corn were carried across the Shannon. The town of Loughrea is nearly all consumed by fire - seven houses burned and 100 levelled to the ground.

In the town of Meath seventy houses were consumed. Tullamore where the meeting of magistrates takes place today is literally devastated.

At Garavally the estate of Earl Clancarty not a tree is left standing. 5000 hms at the seat of the Bishop of Meath (Adare) were blown down and it is computed that it will take 2 years to remove the debris of timber.

In Birr a man was killed by the falling of a house. In Maryborough an immense destruction of property took place

Portarlington is literally sacked by the fury of the gale.

In Mount Mellich several cabins were blown down the poor inmates with difficulty escaping.

At Fethard the chimney of the new gas works fell and levelled all the other buildings; 7 houses were burned. The tenneses particularly Sir Wheler Cuffe's are all stripped of their fine timber trees.

January 1839

(1A)

The country around Shane county Meath presents a most awful appearance; large ricks of corn and hay blown a mile from their hay yards. A wealthy farmer named Lloyd living a mile from the town had his immense hay yard house and out offices burned to the ground. One third of the trees in the margin of Conyngham's demesne were torn up by the roots.

Carlow has suffered much. A mile in length of the wall surrounding Col. Bruen's demesne, Oakh Park was levelled several trees were blown on the wall and the mail coach had to drive under them on its way to Dublin.

In Clare King's County some houses were burned.

In Dundalk county Meath scarcely a house escaped and the poor farmers have been ruined by the loss of their corn and hay ricks.

Castltermont county Carlow is almost a wreck. The damage in its vicinity is ruinous to the agriculturists.

The small but picturesque demesne of Lady Bellingham at Castle Bellingham is wrecked. Upwards of 300 of the finest oaks and elms destroyed.

(15)

At Dundalk the postmaster and his clerk were waiting up for the arrival of the mail from town when a stack of chimneys fell upon and crushed them severely; they merely escaped with life.

In Belfast there is no record of anything like this storm. A number of the great factory chimneys were levelled destroying all buildings in the vicinity. The town is altogether irreparably damaged. The mail delayed by the trees blocking up the roads all arrived this morning.

In Newry there was an immense destruction of property particularly the hay yards in the vicinity of the town. An immense stack of turf at Donoughmore was lifted at least a foot off the ground and then scattered at the mercy of the wind. Several lives were lost poor peasants buried in the ruin of their cabins.

January 1839

16

England (Continued.)

York Several of the Windows, which were glass
with painted glass, destroyed —

The damage to property in the city is immense
and will amount in the total to some
thousands of pounds —

Sheffield During Sunday Night from 6th a most
terrible storm of Wind — A palm Church
in the Park has been considerably damaged —
The top of the spire blown off, and in falling
broke thru' the roof of the L — — —

The roof of several houses put in by the
Chimney have been blown down — — —
an immense number of houses much damaged
and destruction of property great, such as
manufacturing of houses, scalding of the land on
Churches and Chapels — — —

Lincoln. On the same night the City
was visited by a tremendous storm
and much damage done — — —

Castle Howard near York nearly all the fine timber trees
belonging to this beautiful seat were destroyed by
the dreadful storm —

Continuation of the Storm 6th of Jan 1839 (17)
Ireland Dublin Jan 12

There are now returns from every part of Ireland of
the devastation produced by the hurricane of Jan⁶ and 7
which has been universal in its operation over the
entire face of the Country — Not a Town village
or Hamlet has escaped, everywhere the Tempest
left appalling proofs of its Power. There is not
a Plantation or a despoil from one end of the
Kingdom to the other in which the destructive effects
of the Storm cannot be witnessed. The oldest
trees have been laid Prostrate and woods appear
as if they had been blasted by lightning, but
it is upon the cultivator of the Soil that the
Visitation has been most severe. Every account
mentions that stacks of corn and hay have
been blown about and totally destroyed.

In this respect alone the loss must be enormous
for no farm escaped the Tempest. At present
it is impossible to form any estimate of the
loss of agricultural produce, but seeing a poor
farmer must have been utterly ruined —
at any time such a calamity must be
disastrous. but the high prices and the
previous scarcity of food must greatly
aggravate its miserable effects especially
amongst the forsaking poor — — —

Tomes
Jan 15 1839

18 January 1839

So violent was the storm been that salt has been found lodged on Trees and Buildings 50 and even 70 Miles from the sea

Weather abroad

Copenhagen Jan 12th 1839 In the night of the 7th of Jan^r we had a hurricane from the S and SW with a fall of snow which continued the whole of the day -

at Elsinore almost the whole of the Balcony on the Harbour was carried away and the sea rose to an extraordinary height

Ripon was visited on the 7th and 8th with an inundation as in 1825 the damage is said to be terrible -

Main^r. Advertiser
Jan^r 24 1839

Recapitulation of the Storm of Jan^r 1839

19

This terrible and destructive storm of wind appears (as to its extreme violence) to have occupied about 80 or 100 miles in breadth and to have taken its course in a direction parallel to the Equator from West to East, traversing over the central parts of the British Isles, entering Ireland on the Coast of Galway passing the Capital on the Eastern Coast on to Lancashire the Coasts of Lancashire Wales, and the Southern parts of Scotland and left England by the Yorkshire and Northumbrian Coasts, devastating almost every thing that impeded its progress from its incredible fury

History does not record any such Tempest since the year 1703 and which was chiefly confined to the more southerly part of the Kingdom.

The high Wind in Nov^r 1836 which did so much damage in the Metropolis was not so violent

from which we may infer that the British Isles cannot be said to be exempt from real hurricanes for a Wind which in a few hours will lay prostrate myriads of full grown lofty trees, deranging Churches, blowing down Spires, overthrowing houses, demolishing Mills, scattering carts & stacks

20

January 1839

must be considered to partake more of the nature
of the Tropical Hurricane.

The Barometer seemed affected in this case similar
to the Equinoctial Eruption exhibiting a sudden and
unusual depression in place, when the storm was
most violent. its greatest depression in this instance
was below 28 inches. the fall amounting in some
places in less than 12 hours to one inch and a half

Note. At Aberdeen the Barometer fell one inch, and
four tenth on the night of the 6th Jan^r, and by
8 o'clock in the morning of the 7th it stood at 27.58
near the head of the sea, a depression never heard of
in any part of the British Islands - the Wind was
mostly from the West and NW and blew a hurricane
at the time

Dunce, Centre, C

ROYAL METEOROLOGICAL SOCIETY
49, Cromwell Road, London, S.W.7

METEOROLOGICAL REGISTER

kept at
LONDON, HACKNEY
by
S.G. UNDERHILL.

1832 - 1856

50 HA MET/2/Y2/3/167

1832 Bar^o Thermometer Wind Remarks
January 8 a.m. 4 P.M.

| | Bar ^o | Thermometer | Wind | Remarks |
|----|---------------------|-------------|------|-------------|
| 1 | 30. 20 | 28 | 32. | N.E. |
| 2 | 29. 90 | 29 | 34. | N.E. |
| 3 | 29. 85 | 31 | 30 | N. |
| 4 | 29. 70 | 28 1/2 | 32 | N. |
| 5 | 29. 65 | 29 | 33 | E. |
| 6 | 29. 60 | 34 | 37 | E. |
| 7 | 29. 40 | 37 | 39 | E. variable |
| 8 | 29. 45 | 37 | 39 | S.E. |
| 9 | 29. 2 ₄₀ | 39 | 42 | S.E. |
| 10 | 29. 75 | 47 | 48 | S.W. |
| 11 | 29. 80 | 46 | 48 | S.W. |
| 12 | 29. 60 | 43 | 47 | S.W. |
| 13 | 29. 70 | 42 | 42 | N.W. |
| 14 | 30. 20 | 33 | 38 | N. |
| 15 | 30. 35 | 30 | 35 | N. |
| 16 | 30. 43 | 28 | 31 | N & S.W. |
| 17 | 30. 30 | 38 | 42 | W. |
| 18 | 30. 30 | 39 | 38 | S.W. |
| 19 | 30. 25 | 35 | 35 | S.W. |
| 20 | 30. 15 | 30 | 38 | S. |
| 21 | 30. 20 | 37 | 42 | S. |
| 22 | 30. 25 | 40 | 43 | S. |
| 23 | 30. 30 | 41 | 42 | S.W. |
| 24 | 30. 20 | 32 | 44 | S.W. |
| 25 | 29. 93 | 46. | 46 | S.W. |
| 26 | 29. 80 | 36 | 42 | S.W. |
| 27 | 30. 05 | 35 | 38 | N. |
| 28 | 30. 20 | 30. | 36 | N. |
| 29 | 30. 30 | 41 | 45 | S.W. |
| 30 | 30. 28 | 40. | 44 | N.W. |
| 31 | 30. | 40 | 42 | S. |

Some foggy & cloudy days, but little rain or snow

1838

| Alt Bar. | Thermom. | Wind | Remarks |
|-------------|----------|---------------|---------------------------------------|
| 1 29.35 47 | 47 | W. | Fair & rain |
| 2 29.25 38 | 47 | S W. | Do rain just at night |
| 3 29.30 35 | 44 | S W. Y. S. | Do rain |
| 4 28.90 43 | 48 | S W. | Rain fair at intervals |
| 5 29.35 44 | 48 | N W. | Cloudy & rain |
| 6 29.75 37 | 42 | N W. S W. N. | Fair & rain all night |
| 7 29.45 54 | 56 | S W. | Rain fair at intervals |
| 8 29.65 49 | 53 | S W. | Fair, beautiful day rain all night |
| 9 29.50 46 | 46 | S W. | Rain till 1 o'clock |
| 10 29.75 38 | 44 | S W. N. W. N. | Fair |
| 11 29.64 33 | 39 | N W. | Foggy, cloudy & damp |
| 12 30.20 35 | 43 | N by E | Fair, beautiful day |
| 13 30.40 33 | 42 | N E. | do do |
| 14 30.20 33 | 42 | E. | do do |
| 15 29.85 40 | 44 | S E. | Cloudy & damp |
| 16 29.70 40 | 45 | S E. E. | do do |
| 17 29.75 40 | 41 | S W. | Do foggy & damp |
| 18 29.65 43 | 45 | N E. | Rain all day & night |
| 19 29.50 40 | 39 | S W. N. | Rain all day, 48 hours rain |
| 20 29.65 37 | 39 | N E. | Cloudy |
| 21 29.35 38 | 40 | E. | Do & damp rain at night |
| 22 29.25 43 | 46 | S E. S. | Rain & fair |
| 23 29.80 43 | 40 | E. N. E. | Fair & Cloudy |
| 24 29.70 37 | 37 | N E. | Cloudy, clear & damp at night |
| 25 30. - 30 | 35 | N W. N. | Fair & cloudy |
| 26 29.90 31 | 30 | S E. | Do clear |
| 27 29.30 31 | 33 | S E. | Cloudy, rain & fog |
| 28 28.70 37 | 48 | S W. S. W. | Do rain & heavy winds |
| 29 28.75 51 | 51 | S W. N. E. | Do heavy rain & clouds |
| 30 29.20 46 | 49 | S W. | Thunder & lightning |

| Thermometer | Bar. | Morn & After | Wind | Remarks |
|--------------|------|--------------|------------|----------------------------|
| Jan 1 30. 10 | 39. | - 45 | W. | Cloudy & fair |
| 2 30. - | 44 | 46 | S N. W. | Fair & clear |
| 3 29. 75 | 46 | 47 | W. | do rain in night |
| 4 29. 45 | 43 | 42 | W. | do |
| 5 29. 65 | 35 | 39. | S W. N. | do |
| 6 29. 45 | 33 | 36 | S W. S. E. | Snow rain all day |
| 7 29. 75 | 45 | 38 | N by S. | Fair, rain & snow at night |
| 8 29. 60 | 33 | 36 | N by E. | do |
| 9 30. - | 37 | 32 | N W. | do very clear |
| 10 30. 25 | 29 | 38 | S N. | do do |
| 11 30. 10 | 42 | 47 | S W. | Cloudy & rain |
| 12 30. 25 | 50 | 45 | N W. | Fair |
| 13 30. - | 50 | 51 | N W. S. W. | do & light rain |
| 14 29. 80 | 43 | 43 | S W. by N. | rain |
| 15 29. 85 | 35 | 40 | N W. | Fair |
| 16 29. 95 | 33 | 40 | N W. | do |
| 17 30. 05 | 29. | 35 | N W. N. | do |
| 18 30. 20 | 28 | 33 | N W. | do |
| 19 29. 70 | 42 | 40 | S W. N. | Rain till 3 then fair |
| 20 30. - | 37 | 62 | S W. | do & cloudy & damp |
| 21 29. 73 | 48 | 45 | S W. N. | rain all day |
| 22 30. 25 | 32. | 37 | N. | Fair very clear |
| 23 30. 55 | 34. | 38 | N. | do do |
| 24 30. 50 | 33 | 42 | N W. | do |
| 25 30. - | 42 | 44 | S W. N. N. | do |
| 26 30. 20 | 32 | 34 | N W. N. E. | do snow |
| 27 30. 35 | 32 | 34 | N E. | do snow in E. |
| 28 29. 90 | 29 | 34 | N. | Cloudy snowiness |
| 29 29. 40 | 32 | 37 | N W. N. | do rain & snow at night |
| 30 29. 20 | 23 | 31 | N W. N. | do snow |
| 31 29. 45 | 27 | 32 | N W. N. E. | snow & fair snow in night |

30 J. 18.
Highgate 15
Standon 22.

in night

| 1839 | Thermometer | | | | 1839 | Thermometer | | | |
|-------------|-------------|-----|---------|-------------------------------------|---------------|-------------|--------|------|---------------------------------------|
| Feb Bar. | Morn | aft | Wind | Remarks | Mar Bar. | Morn | aft | Wind | Remarks |
| 1 30.05 26. | 33 | | NW | Fair | 1 29.90 44 | 46 | 811 | | Cloudy cold |
| 2 30.10 30. | 35 | | NN | do | 2 29.95 43 | 57 | SW | do | do |
| 3 29.90 35. | 39 | | SNW | Rain & sometimes Fair | 3 30.10 42 | 51 | SE | | Fair very fine |
| 4 29.80 34 | 40 | | SWSW | Cloudy Fair | 4 30.10 35 | 43 | NNE | do | |
| 5 30.15 40 | 42 | | SW | do & gloomy & damp | 5 30.10 34 | 34 | N | | Cloudy very cold |
| 6 30.60 41 | 43 | | ESE NW | Damp Rain at night | 6 29.80 31 | 32 | N | | Snow |
| 7 30.30 47 | 50 | | SW | do do & gloomy | 7 29.50 28 | 32 | N by W | | Snow all day |
| 8 30.35 48 | 51 | | SW | windy damp | 8 29.90 30 | 34 | N | | Fair & cloudy |
| 9 30.35 51 | 53 | | SW | Damp & cloudy | 9 30. - 25 | 34 | N | | do clear |
| 10 30.50 42 | 45 | | NW | very fine & sunny | 10 30.-20 28. | 35 | NWSW | | Cloudy Fair |
| 11 30.40 37 | 46 | | SNW | cloudy & damp | 11 30.18 30 | 39 | SE | | Fair |
| 12 30.20 43 | 47 | | SNW | do & fair & cloudy | 12 30.10 33 | 40 | SE | | Cloudy rain after 3 o'clock |
| 13 30.40 37 | 45 | | SW | Fair very fine | 13 30.10 38 | 50 | SE | | do rain at night |
| 14 30. - 48 | 50 | | SWSW NW | Cloudy Fair | 14 30.07 43 | 51 | SWS | | Rain all day |
| 15 30.10 35 | 47 | | W | Fair very fine | 15 29.50 46 | 51 | SW | | Rain till 3 o'clock |
| 16 29.60 45 | 42 | | SWSW NW | Rain Fair | 16 29.30 44 | 49 | SWNW | | Fair |
| 17 29.50 33 | 40 | | WWSW NW | Snow Showers Fair | 17 29.70 39 | 42 | N & N | | Cloudy |
| 18 29.60 32 | 35 | | N by E | Snow & cloudy | 18 29.95 34 | 37 | N | | do |
| 19 29.50 29 | 37 | | NWSW | Fair | 19 30. - 33 | 45 | NWSW | | do & Fair |
| 20 29.70 37 | 38 | | NE | Cloudy rain & very damp | 20 29.85 38 | 46 | SWSW | | do faint showers & much rain at night |
| 21 30.25 34 | 39 | | EWSW | Fair | 21 29.60 41 | 52 | WNW | | do showers |
| 22 29.80 39 | 47 | | SW | Snow in morn & rain off & all night | 22 29.70 42 | 54 | NW | | do & light rain |
| 23 29.70 50 | 47 | | SWSW NW | Rain till 12. other fair | 23 29.73 48 | 55 | W | | do |
| 24 29.75 35 | 45 | | SW | Fair very fine | 24 29.75 47 | 53 | W | | Fair |
| 25 29.80 35 | 40 | | NW | Fair & snow Showers | 25 29.70 42 | 48 | WNW | | do |
| 26 30. - 31 | 42 | | NH | Fair | 26 29.80 40 | 50 | N | | do |
| 27 29.85 37 | 42 | | WNW | do short rain Showers | 27 29.55 46 | 52 | SW | | Cloudy rain |
| 28 30.15 35 | 48 | | W? | Fair | 28 29.40 43 | 50 | WNW | | Showers cloudy & bright |
| | | | | | 29 29.40 41 | 44 | N | | Cold & cloudy |
| | | | | | 30 36 | 43 | NNE | | do do |
| | | | | | 31 51 | 48 | SE | | do do |

Actonwood. 7th 25 Marth
9. - 20

Jan. 20th. Ther: 0.0. at 3 P.M. 17.5 at 1, 12.5 at 5, 9.5 at 6, 8 at 7, 6 at 8, 5-
at 9, 2.5 at 10, 1.5 at 11, 1.0 at 12, 3. ~ But about $\frac{7}{2}$ past 11, 0.5

Meteorological Journal,

1838.

** For explanation of the columns, vide 1835. ~

Meteorological Journal. 1835.

Times as usual viz: 1st. Observation taken at 8 A.M. - 2nd. at 2 P.M. & 3rd. at 8 P.M. daily.

| | |
|---------------------------|--|
| 1 st . Column, | The month days. |
| 2 nd Do. | Out door Thermometer |
| 3 rd Do. | In door Thermometer at 2 P.M. &c. |
| 4 th Do. | Barometer |
| 5 th Do. | Hygrometer at 8 A.M. & 2 P.M. |
| 6 th Do. | Outdoor Thermometer at particular times |
| 7 th Do. | Lowest state during the night |
| 8 th Do. | General Remarks |
| 9 th Do. | As the 1 st Column. |
| 10 th Do. | Degrees of Obscuration from 0, quite clear, to 6, quite cloudy. |
| 11 th Do. | Point of the Wind. |
| 12 th Do. | Its Force. |
| 13 th Do. | Weather - N.W. In the first line of each day points for Noon, In the second line for 6 P.M. & in the third line Midnight - As before for many years. |

| | | | | |
|------------|-------|-------|----|-------|
| 37 | 69 | | | |
| 31 40.5 | 75 54 | | | |
| 42 46) | 72 54 | | | |
| 35 | 67 | | | |
| avg. 63 | 60 | 30.39 | 60 | 64 |
| high. 30 | 45 | 29.54 | 40 | 27.75 |
| Mean 52.29 | | 29.89 | 50 | |

Total Depth of Rain 2.26

November...

| | | | | |
|-----------|-------|-----|--|--|
| 1 44 | 29.32 | 65 | | |
| 49 47 | 22.56 | | | |
| 35.5 | 20 | 32% | | |
| 37 | 21.52 | | | |
| 46 45 | 15.52 | | | |
| 41.5 | 21 | 30% | | |
| 32 | 37.52 | | | |
| 42.5 44.5 | 21.52 | | | |
| 43 | 5 | 37% | | |

November...

| | | |
|----|---------|---|
| 3 | W 0 | fine (ir.) fog but bright & light some cloud afternoons (fog at night) |
| 11 | N ½ | almost cont. rain |
| 14 | N 0 | little rain. less cloudy. bright & no wind just perceptible. |
| 3 | S SW 1 | very fine. close. much rain |
| 1 | W 1 | Fair, very threatening, close, showery by 2 or 3 gentle showers & then clear |
| 2 | W 1 | fly shower but rather heavy, very black clouds fit |
| 2 | WNW ½ | clear, more so (1). but often somewhat cloudy morning |
| 2 | WSW 1 | { fair to bright sun & bright sun? very little rain at times in the course of day but |
| 4 | SW 1 | { |
| 3 | SW 1 | cloudy more or less |
| 3 | SW 1 | very fine. close |
| 4 | S 1 | cloudy. w. SSE. rain at times some |
| 3 | S S E 2 | showers. more or less cloudy. some rain. fair to SWA |

Nov

| | | | | | | | |
|----|-------------|-----------------------------------|---|----|-------------------------------|-------|---|
| 1 | 22 | 20. 77 | 62 | | 1 | SSW | dis ^h . heavy clouds abt. clouds |
| 4 | 51 | 40 | 76. 56 | | 3 | SSW | horizon at set of y. sun: strat. kind. fair. |
| 5 | 10. 5 | 29. | 3 ¹ / ₂ | 39 | | | clouds. heavy clouds at a great dis. in y. SW, onshy |
| 10 | 19 | 47 | 12. 68 | | 3 | SSW | fine but thin fog, more fog. very foggy |
| 11 | | 34 | 34 ¹ / ₂ | | 5 | NW | very foggy. fog & w. ^o W. little misty rain |
| 16 | 36 | 39. 6 ¹ / ₂ | | | 5 ¹ / ₂ | NW | slight rain at times |
| 16 | 17 | 63. 55 | rain of course of y. even. & not longer at night. | | 4 | NW | hazy & some part of y. morn frosty. & less w. (2) |
| 11 | | 63 | | | 6 | W | clear - |
| 7 | 52 | 40. 7 ¹ / ₂ | | | 2 | WSW | cloudy fog at eve. fog zone but rather thick lofty cir. str. in y. SW horizon low. eve. some & little w. (1) |
| 7 | 56. 5 52. 5 | 34. 60 | | | 26 | W S S | rather cloudy. m ^o rain & w. SE. w. SSE & more |
| 7 | 53 | 33 | 14 ¹ / ₂ | | 26 | S SE | very rainy. w. SSW & more w. fly. clouds |
| 8 | 48 | 42. 57 | | | 2 | S SW | few clouds. chly. rather cloudy |
| 8 | 53. 5 51 | 41. 55 | | | 3 | S W | chly very fine but sometimes more or less cloudy |
| 8 | 47 | 42 | 11 ¹ / ₂ | | 8 | S W | bright & chly clear. less w. (3) but close w. little rain |
| 9 | 44 | 29. 66 | | | 3 | S W | close |
| 9 | 57 | 30. 57 | | | 5 | S W | y. morn. 2 no w. but w. w. |
| | | | | | | | very little rain. heavy rain foll. by m ^o rain. & inc. |
| | | | | | 17 | W | w. rain. close & little w. (1). |
| | | | | | 4 | S W | fainter. finew. first yellow then red cir. strat. & diffuse but some fog |

| Noo | | | | | | | | | |
|-----|---------|----------|------|--|--|--|------|----|--|
| 39 | 41 | 35 | | | | | SW | 1 | Hazy & very fine, brighter |
| 10 | 38 | 61 60 | | | | | W | ½ | very fine, slightly showery at a distance |
| 11 | 46.5 17 | 62 60 | | | | | W | 2½ | showery, w. WNW & rather cloudy, fair |
| 12 | 33.5 | 70 | 31 | | | | SW | ½ | Hazy but fair, very foggy but no w. SSE |
| 11 | 33 | 62 60 | | | | | SE | 0 | very foggy .. recd & little w. (2) & fair |
| 13 | 39 41.5 | 57 62 | | | | | NE | 1 | fair, very heavy clouds far off Eward tow. eve. fair |
| 14 | 37 | 71 | 32 ½ | | | | NE | 1 | clear, not clear & more w. (2) |
| 15 | 35.5 | 30.5 55 | | | | | NE | 3 | some very dis. flights of some downfall, very little rain ^{w. few clouds & less w. (2)} |
| 16 | 43 | 11 62 | | | | | NE | 1 | clear, very fine |
| 17 | 33 | 30 | 28 ½ | An extraordinary brilliant aurora borealis of various colours from midn till break of day. | | | NE | 1 | very fine, no w. |
| 18 | 30.5 | 38 ½ | | | | | E NE | 0 | clear, little w. (2) |
| 19 | 43 | 37 52 | | | | | NE | ½ | |
| 20 | 29 | 35 | 26 ½ | | | | E | 0 | clear, hazy & little w. (2) |
| 21 | 33 | 24 61 | | | | | E | 1 | fair & thin |
| 22 | 43 | 42.5 57 | | | | | E | 1 | more cloudy, cloudy |
| 23 | 40.5 | 8 | 37 | | | | E | 1 | cloudy, no w. |
| 24 | 40.5 | 29.91 65 | | | | | SE | 0 | ^{ch} hazy. |

| | | | | | | | |
|-----|------|------|----|-------------------|----|----|--|
| Nov | | | | | | | |
| | 45 | 45 | 83 | 62 | | 6 | W $\frac{1}{2}$ cloudy. fog. & misty |
| | 41. | 5 | 76 | 32 $\frac{9}{10}$ | | 6 | S W 0 hazy & cloudy - not cloudy. very foggy |
| | 36 | | 64 | 66 | | 16 | S W 0 very foggy |
| | 42.5 | 45 | 60 | 63 | | 6 | S.W. 0 |
| | 37 | | 60 | 35 $\frac{1}{2}$ | | 10 | SW $\frac{1}{2}$ hazy. fog |
| 1/2 | 39 | | 76 | 63 | | 17 | SW $\frac{1}{2}$ fog. fair. |
| | 46 | 45 | 75 | 60 | | 5 | S S E 0 hazy |
| | 36.5 | | 75 | 35 | | 5 | N E 0 hazy. rain & w. (2) |
| | 42 | | 61 | 66 | | 18 | N E 2 cont. rain |
| | 43 | 45 | 63 | 66 | 30 | 6 | E N E 2 lightly rainy |
| | 43 | | 63 | 32 $\frac{1}{2}$ | | 6 | E N E 1 cloudy. rainy more so. (3) |
| | 38 | | 60 | 60 | | 19 | E N E 3 cont. rain. with little snow |
| | 36 | 41.5 | 50 | 63 | | 6 | E N E 2 still rain but with more snow. drizzling |
| | 36 | | 47 | 34 | 28 | 6 | E N E 3 drizzling. cloudy & less w. (2) |
| | 36 | | 61 | 59 | | 20 | E 1 cloudy |
| | 38.5 | 41 | 62 | 58 | | 6 | E N E 1 |
| | 37 | | 61 | 34 $\frac{1}{2}$ | | 6 | E 1 |

Nov

| | | | |
|----|-----|----|-----|
| 21 | 38 | 42 | 62 |
| . | 37. | 5 | 41 |
| . | 39 | 27 | 37 |
| 22 | 42 | 17 | 76 |
| . | 47 | 15 | 24 |
| . | 37 | 32 | 35 |
| 23 | 38 | 47 | 61 |
| . | 37. | 5 | 62 |
| . | 34. | 5 | 52 |
| 24 | 35 | 55 | 61 |
| . | 36. | 5 | 40 |
| 25 | 29. | 73 | |
| 26 | 30 | 93 | 62 |
| . | 39 | 42 | 91 |
| 27 | | 93 | 74 |
| 28 | 29 | 89 | 52 |
| . | 35. | 5 | 46. |
| 29 | 46. | 5 | 50 |

31 at 10 P.M.
but about
at 25 $\frac{1}{2}$ -

A. B. I. but abt. 11 o'clock there appeared
in. of horizon WSW a strong luminous
space of light but being heavily cloudy
at. of time it was difficult to ascertain but
probably aurora borealis & very vivid
abt. 20 deg. all outside & nearly as many wide

| | | | |
|----|-----|---|--|
| 21 | E | 2 | |
| . | E | 2 | |
| . | ENE | 2 | cloudy. less w. (1). rain |
| 22 | E | 1 | cont. rain. & some heavy. less cloudy w. large cumuli |
| . | ESE | 1 | fair. clear |
| . | ESE | 1 | clear. rather close. cloudy but very little rain |
| 23 | E | 1 | cloudy |
| . | NE | 1 | |
| . | NE | 1 | |
| 24 | ENE | 2 | slightly drizzily. cloudy. bright |
| 25 | ENE | 1 | .. clear |
| . | ENE | 1 | .. rather cloudy chy than fair |
| 25 | E | 1 | fair |
| . | E | 1 | more cloudy. fair & less w. (1) but a flight of hail & sleet |
| . | ESE | 1 | rather cloudy more or less. very fine & more w. (1) |
| 26 | SE | 1 | very fine |
| . | ESE | 1 | |

8 a little downfall
at 6 P.M. & two

Nov

| | | |
|----|----|---------|
| 27 | 83 | 24½ |
| 28 | 35 | 51.58 |
| 29 | 35 | 33.60 |
| 30 | 5 | 16 |
| 30 | 40 | 168 |
| 31 | 22 | 20.7667 |
| 40 | 5 | 62 |
| 40 | 5 | 60.62 |
| 41 | 17 | 59.61 |
| 47 | | 68 |
| 49 | 5 | 81.61 |
| 50 | 18 | 91.58 |
| 45 | 12 | 29.12 |

High. 46.5 52.5 30.38 77
 Low. 27 35 28.59 50 26 78
 Mean 40.37 29.48

Total Depth of Rain 2.66.

December.

1 16 29.1063

| | | | |
|----|-----|---|--|
| 2 | ESE | 1 | chly clear. fair |
| 27 | ESE | 2 | close w. fly. thin clouds. cloudy & more w. (3) usy |
| 5 | SE | 3 | cloudy but little showery at eve |
| 4 | SE | 3 | little showery. cloudy. w. SSW & less (1) & hazy |
| 20 | SSW | 1 | hazy. thick & cloudy w. more w. (2) |
| 5 | SE | 3 | very rainy & more w. (6). less cloudy but rather showery E. S & less (4) fly clouds |
| 3 | S | 4 | rather showery. less w. (2) & chly bright. very heavy storm of thunder & rain & more w. (5). w. SSW & less w. (3) & bright |
| 29 | SSW | 4 | few close showers. less showery but other showers smaller fly clouds above w. & thickish w. w. |
| 3 | SSW | 5 | showery more or less batchy. luna halo as a semi circle w. fly clouds above w. & thickish w. w. |
| 2 | SW | 4 | more halo but open at bottom. fine. less w. (3) & fair |
| 30 | SW | 3 | fair but some small light clouds |
| 2 | SW | 3 | very fine |
| 3 | SW | 3 | luna halo but fine. no halo but less w. (1). cloudy |

December.

1 SW 2 Cloudy less. cloudy

| No | Sec | | | |
|----|-------------|-----------|------------------|---|
| 1. | 49. 5 | 35 63 | | |
| 2. | 52 | 25 | 47 $\frac{1}{2}$ | |
| 2. | 50 | 45 62 | | |
| 2. | 53. 5 53. 5 | 45 60 | | |
| 3. | 48 | 49 | 48 $\frac{1}{2}$ | |
| 3. | 43 | 36 62 | | A luna rainbow was seen at Thwaite at 6 P.M. SW in a long cirro stratus. The D at that time was about $\frac{3}{4}$ of an hour high. After which a little rain fell & the cloud passed off to the SE, preserving its straight-edged form & pointed at each end. From O.W. |
| 4. | 49 | 35 61 | | |
| 4. | 52. 5 | 34 | 38 $\frac{1}{2}$ | |
| 4. | 41. 5 | 45 62 | | |
| 4. | 47 | 48 61 | | |
| 4. | 37 | 58 | 34 | |
| 5. | 38 | 71 62 | | |
| 5. | 43. 5 46 | 78 61 | | |
| 5. | 52 | 91 | 39 | |
| 6. | 42 | 30. 16 63 | | |
| 6. | 44 45. 5 | 18 62 | | |
| 7. | 35 | 19 | 35 | |

| | | |
|-----------------|-------------------|---|
| 5 $\frac{1}{2}$ | S 2 | cloudy. rain |
| 6 | S 3 | cont. rain but chly gentle bright morn. W E SSW previously rather cloudy dimmed (3), |
| 2 | S W 2 | bright. fly. gentle shower occurred . fair |
| 3 | S W 3 | few dis. showers. bright |
| 2 | S W 2 | bright. rather close. some rain. fine less w. (1) |
| 3 | S W 1 | fine. clear but a dis. stormy cloud S E. |
| 1 | S S W 1 | few dis. showers. clear |
| 2 | S S W 1 | clear. fine |
| 4 | WSW 1 | fair. few dis. stormy clouds |
| 2 | SW 1 | more cloudy. clear |
| 2 | WSW 1 | clear. fine & gay. cloudy S W. W W. little drizzl. (1) |
| 5 | W 1 | drizzl. a little at times. S W. NW |
| 5 | NW 1 | cloudy but very little drizzl. (1) |
| 6 | NNW $\frac{1}{2}$ | drizzl. gently sometime. cloudy but no w. |
| 6 | W $\frac{1}{2}$ | hazy |
| 3 $\frac{1}{2}$ | W $\frac{1}{2}$ | .. fine very & still hazy |
| 4 | W 1 | fair. more cloudy. rainy |

Dec

| | | |
|----------|-------|------|
| 7 44 | 17 72 | |
| 13. 5 16 | 18 68 | |
| 34 | 25 | 28 2 |
| 8 30 | 25 65 | |
| 41 41.5 | 27 60 | |
| 32. 5 | 33 | 26 2 |
| 29 | 33 66 | |
| 37 40 | 31 67 | |
| 30. 5 | 30 | 27 |
| 10 28 | 18 66 | |
| 38. 5 39 | 12 64 | |
| 36. 5 | 9 | 34 2 |
| 11 30 | 21 67 | |
| 41. 5 41 | 24 64 | |
| 30. 5 | 26 | 26 2 |
| 12 34 | 25 66 | |
| 42. 5 41 | 22 65 | |

20

| | | |
|-------|-----|-----------------------------------|
| 7 3 | WNW | 2 rain. hazy |
| . | NNW | 2 hazy |
| . | NNW | hazy. ch. clear |
| 8 22 | NW | little rain. fair |
| . | N | fair. hazy |
| 5 | NNW | hazy. very foggy |
| 9 22 | W | fog |
| . | W | |
| ? | SW | very foggy. fog |
| 10 1 | W | fog |
| . | W | hazy |
| 5 | WNW | little drizzl. fog |
| 11 3 | WNW | 0 fog. hazy |
| . | NNW | 0 hazy |
| 5 | NNW | 0 fog. w. very little drizzl. SW. |
| 12 22 | SW | fog but very little rain |
| . | SW | fog |

| Dec | Dec | | | | | | | | |
|-----|------|------|--|-------|------------------|------------------------|----|-------------------|--|
| 7 | 41. | 40 | | 23 | 36 | | | 6 | SW $\frac{1}{2}$ |
| 12 | 13 | 38 | | 25 06 | | | 12 | SW $\frac{ch}{0}$ | foggy but little very slight mist. just rise |
| 31 | 12 | 11 | | 25 65 | | 0 | 4 | SW $\frac{ch}{0}$ | foggy |
| 8 | 30. | 39.5 | | 27 | 35 | | 52 | SW $\frac{ch}{0}$ | foggy - fog |
| 4 | 14 | 37 | | 33 66 | | | 14 | W $\frac{1}{2}$ | foggy clear but hazy |
| 3 | 16.5 | 14.5 | | 32 65 | | | | N $\frac{1}{2}$ | hazy & rather cloudy |
| 9 | 2. | 39.5 | | 33 | 30 $\frac{1}{2}$ | | 3 | N $\frac{1}{2}$ | hazy but very little mist. a short time before 9 A.M. $\frac{E}{SE}$ |
| 3 | 15 | 32 | | 32 63 | | | 15 | E $\frac{1}{2}$ | clear but few dis. clouds. clearer |
| 3 | 38 | 12.5 | | 29 62 | | | 2 | ESE $\frac{1}{2}$ | more or less fair but chly fine |
| 10 | 20. | 30.5 | | 29 | 28 | | | ESE $\frac{0}{}$ | Fine. somewhat cloudy more or less |
| 3 | 16 | 36 | | 30 58 | | | 16 | ESE $\frac{0}{}$ | cloudy more or less |
| 3 | 39.5 | 11.5 | | 30 57 | | | 16 | ESE $\frac{0}{}$ | cloudy |
| 11 | 3. | 37 | | 32 | 34 | | 6 | ESE $\frac{1}{2}$ | |
| 5 | 17 | 36 | | 32 58 | | , no haze ness all day | 17 | ESE $\frac{1}{2}$ | |
| 3 | 36.5 | 11 | | 30 59 | | | 6 | ESE $\frac{1}{2}$ | |
| 12 | 3. | 34 | | 30 | 30 | | | ESE $\frac{0}{}$ | less cloudy morn. J |
| 18 | 31 | | | 29 56 | | | 10 | E $\frac{0}{}$ | less cloudy. clear |

| | | | | | | | | |
|----|---------|------|-------|-----------------|--------------------------|----|-------|------------------------------------|
| 1 | 32 | 38 | 29 59 | 29 at 9:00 A.M. | | 3 | Elo | clear, cloudy |
| 2 | 32 | | 21 | | 28 | 6 | Elo | cloudy |
| 3 | 30 | | 18 59 | | | 19 | S 1 | hazy |
| 4 | 33 | 37.5 | 15 60 | | | 10 | S 1 | |
| 5 | 34 | | 11 | 27 1/2 | | 3 | S 1/2 | hazy, fair morn 2 |
| 6 | 30 | | 12 61 | | | 10 | S 1/2 | fines fair |
| 7 | 41 | 39.5 | 14 62 | | | 2 | S 1/2 | fine |
| 8 | 32 | | 25 | | 32. bwh at 10 A.M. 34 | 5 | S 1/2 | cloudy |
| 9 | 35 | | 31 64 | | | 21 | SSE 1 | |
| 10 | 37 | 39 | 31 61 | | | 6 | SSE 1 | |
| 11 | 35.5 | | 23 | 29 1/2 | | 6 | SSE 1 | |
| 12 | 32 | | 6 62 | | | 22 | S 1 | rainy |
| 13 | 35 | 39 | 2 63 | | | 6 | S 1 | drizzling |
| 14 | 37 | | 29 91 | 36 1/2 | | 10 | SSE 1 | drizzling, cloudy. |
| 15 | 40 | | 54 68 | | | 23 | SSE 1 | cont. rain more or less |
| 16 | 39.5 41 | | 46 68 | | | 22 | SE 1 | rain, gentle drizzl |
| 17 | 38 | | 41 | 38 | | 6 | SE 1 | gently drizzl. & foggy morn drizzl |

| Dec | Day | Min Temp | Max Temp | Wind Dir | Wind Speed | Condition |
|-----|-----------|----------|----------|--|------------------------|-----------|
| 24 | 38 | 44 | 73 | | | |
| | 37 | 39.5 | 72 | | | |
| | 32 | 51 | 72 | | | |
| 25 | 28.5 | 55 | 62 | | | |
| | 34.5 38.5 | 64 | 59 | | | |
| | 30 | 66 | 23 3/4 | | | |
| 26 | 27 | 80 | 62 | | | |
| | 33 | 37 | 67 | 60 | | |
| | 33 | 43 | 30 | | | |
| 27 | 31.5 | 57 | 66 | | | |
| | 38 | 38.5 | 61 | 64 | | |
| | 32 | 23 | 27 1/2 | | | |
| 28 | 29 | 30.13 | 64 | | | |
| | 36 | 38 | 29 | 62 | | |
| | 30 | 33 | 27 | | | |
| 29 | 34 | 16 | 66 | | | |
| 40 | 39.5 | 13 | 68 | | | |
| | 24 | ESE | 1 | cont'd | drizzl. g more or less | |
| | 6 | E | 1 | | | |
| | 3 | NE | 1 | less cloudy. ch'g fair & less w. ^o (2) | | |
| | 25 | N | 1 | more & then a slight flake of snow. ch'g finer | | |
| | 3 | NNW | 1 | falls of snow | | |
| | 3 | NW | 1 | less snow. ch'g fair & less w. ^o (2) & WSW | | |
| | 26 | SW | 1 | fine.. hazy & close | | |
| | 42 | S | 2 | very close yet very little snow. more w. ^o (3) at eve | | |
| | 3 | S | 3 | rain & snow. w. ^o W & less (1) & bright star light. clear | | |
| | 27 | WNW | 1 | clear. | | |
| | 2 | W | 1 | | | |
| | 0 | W | 1/2 | | | |
| | 20 | WNW | 1/2 | | | |
| | 0 | WSW | 1/2 | w. ^o SW. no w. ^o | | |
| | 2 | WSW | 0 | clear. fair & little ss w. ^o | | |
| | 29 | SSW | 1 | close. drizzl. g | | |
| | 5 | S | 1 | drizzl. g cont'd. g more or less | | |

| | | | |
|-------------|--------|-----------|-------------------------------------|
| 13 | 13 | 10 | |
| 30. 46 | 3. 75 | | |
| 49 | 46 | 29. N 75 | |
| 60. 5 | 30. 8 | 31 | |
| 31. 32 | 35. 64 | | |
| 38. 5 40. 5 | 37. 65 | | |
| 31 | 45 | 30 | |
| High. 53. 5 | 53. 5 | 30. 33 75 | Total Depth of Rain 1. 34 |
| Lowest 27 | 37 | 29. 25 | |
| Mean 37. 48 | 29. 98 | 32. 13 | Barr: for the whole year 29. 79. 05 |

Stowmarket Jan'y 24th. The intensity of the cold during the last fortnight has been remarkable. For several days previously to Saturday last, the Thermometer stood repeatedly at this place at 10 & sometimes as low as 13. On Saturday morning, at 8 o'clock it stood at 10. During the afternoon it gradually descended & at 11 o'clock at night, a thermometer which was placed upon the most elevated part of Messrs. Steeves & Co's brewery, stood at Zero. It is stated in one of the additional notes to Parker's Chemical Catechism, that the most intense degree of cold ever known in the neighbourhood of London was on the 25th of December 1776, when the Thermometer stood at 2° below Zero. Some French Academicians who made a journey to the Northern end of the Baltic & wintered under the polar circle observed the Thermometer at 33° below Zero. It may be added, that in some of the more northern parts of Russia as well as in Hudson's Bay, the Thermometer is often known to sink to 50° below Zero, or 82° below the freezing point of 32.

Mr. Whistlecraft's Thermometer, during the frost indicated as follows, on

| | | |
|----------------------------------|-----------------------------|---|
| Jan'y 8 th - 26 to 30 | 13 th - 17 to 26 | 18 th - 19 to 22 |
| 9 - 19 th - 21 | 14 - 21 - 26 | 19 - 10 ^{1/2} - 19 |
| 10 - 21 - 25 | 15 - 17 - 28 | 20 - 7 - 21 |
| 11 - 17 th - 25 | 16 - 23 - 28 | Same height at 11 P.M. 2 ^{1/2} |
| 12 - 11 - 29 | 17 - 20 - 31 | 21 st - 14 to 29 + 10 |

| | | | |
|-----------------|-----|---|---|
| 6 | SW | 1 | drizzl. hazy but little wind |
| 30 | SSW | 2 | drizzl. at times |
| 5 th | SSW | 4 | |
| 3 | WNW | 2 | cloudy. clear & w. w. & lops (11) |
| 31 | WNW | 1 | clear. haze up? but fine |
| 12 | WNW | 1 | clear |
| 4 | W | 1 | clear. w. SW & rather close. closer. little rain. |

Past years noted for severity, 220. 250. 291. 359. 500. 558. 695. 827. 859. 908. 923.

987. 998. 1035. 1063. 1076. 1092. 1114. 1281. 1407. 1434. 1507. 1522. 1564. 1565. 16. 1603.

1608. 1638. 1655. 1657. 1663. 1670. 1677. 1684. (1691 Germany). 1695. 1697. 1699. 1700-9.

1715-16. 1723 (severer in Germany than in Sweden). 1716. 1726 (Sweden). 1729. 1730-31.

1731-32. 1739-40. 1744, 45, 46, 47, 48, & 49. Remarkable for much cold. (Germ^y) 1753-4. 1755. 1760.

1762-3. 1767. 1768. 1771, much snow. 1776. D. C. intense cold. 1780. 1783-84. 1784-85. 1788-89.

1795. 1798-99. 1799. 1800. 1802 (mid: of Jan. and 1814. - * 1614 noted for excessive

snow & its continuance longer than any that was ever known to take place in England; it is recorded in the register of the parish of Weston Gilbert that it began on the 15th of Jan'y & continued to snow every day until the 12th of March.

The loss of human life & cattle was immense. -

Extraordinary Heat & Drought. In Y. 9th 163. 860. 993. 994. 1000. 1022. 1130.

2. 4.

1538. 91. 40. 41. 1556. In England wheat rose from 8° to 53 a qr. 1615. lib. lib. (I have seen Mr. 1649 state the same) 1652. lib. 1679. 1700. 1702. 1718. 1719. 98° by Fahrenheit's scale. 1723. 1724. 1745. 1746. 1748.

The number of times the wind was in each point of the compass at the three stated times of observation each day of the year.

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | Var: |
|-------|----|-----|-----|-----|----|-----|----|-----|----|-----|-----|-----|----|-----|----|-----|------|
| Jan. | - | 4 | 22 | 16 | 11 | 4 | 13 | 2 | 2 | 0 | - | - | 3 | 3 | 3 | 2 | - |
| Feby. | 2 | 6 | 14 | 4 | 20 | 5 | 17 | 3 | 1 | 3 | 1 | - | 1 | - | 5 | 2 | - |
| March | 6 | 1 | 5 | 1 | 11 | 8 | 10 | - | 4 | 5 | 12 | 7 | 7 | 5 | 8 | 3 | - |
| April | 11 | 2 | 5 | - | 1 | 2 | 5 | - | 3 | 5 | 11 | 2 | 8 | 13 | 11 | 11 | - |
| May | 1 | 9 | 32 | 7 | 1 | 6 | 10 | 1 | 8 | 4 | 4 | 1 | 5 | 1 | - | 3 | - |
| June | 6 | 4 | 3 | - | 8 | 2 | 12 | 7 | 4 | 5 | 29 | 1 | 2 | - | 2 | 1 | 1 |
| July | 5 | - | - | 1 | 1 | 3 | 3 | 1 | 3 | 10 | 30 | 3 | 17 | 7 | 3 | 8 | 4 |
| Aug. | 3 | 3 | 3 | - | - | 1 | 1 | 1 | - | 2 | 35 | 8 | 13 | 7 | 14 | 2 | - |
| Sep. | 12 | 3 | 10 | 1 | 10 | 1 | 9 | 1 | 11 | 2 | 11 | 2 | 3 | 6 | 6 | 2 | - |
| Oct. | 18 | 6 | 3 | - | - | - | - | - | 5 | 7 | 17 | 10 | 12 | 9 | 2 | 4 | - |
| Nov. | - | - | 10 | 11 | 12 | 6 | 6 | 3 | 7 | 19 | 2 | 7 | 1 | 3 | - | - | |
| Dec. | 4 | 1 | 5 | 9 | 2 | 5 | 13 | 5 | 15 | 3 | 12 | 9 | 3 | 7 | - | - | |
| Total | 68 | 38 | 108 | 41 | 80 | 47 | 80 | 24 | 57 | 57 | 182 | 42 | 90 | 61 | 60 | 45 | 5 |

Total Mean of the out door Th. for Jan. is 28.06 - Total 26095. Feb. 931.83 - Total 2674
 March 40.45 - Total 3761.5 - April 43.38 - Total 3904.5 - May 52.95 - Total 4887.5 -
 June 60.61 - Total 5256.5 - July 63.15 - Total 5873 - Aug. 60.51 - Total 5627.5 -
 Sep. 57.09 - Total 5138 - Oct. 59.29 - Total 4677.5 - Nov. 40.87 - Total 3633.3 - Dec. 37.48
 - Total 3484 - Bar. 17113 Jan. 12904 Feb. 16017 Mar. 15110 Apr. 17279 May. 16335 June.
 17893 July. 16908 Aug. 17480 Sep. 17574 Oct. 13335 Nov. 10398 Dec. - 196346 -

The Amount of the degrees of frost for the winter of 1830, reckoning from the beginning of Nov. 1837 to the end of March 1838.

| | | |
|------|-----|----------------|
| Nov. | 78 | new way 69.50 |
| Dec. | 57 | new way 53 |
| Jan. | 303 | Total 695 |
| Feb. | 192 | new way 186.00 |
| Mar. | 66 | new way 57.50 |

Jan. 295.50 new way

According to the plan by which all as the above were derived, regarding winters from 1816 to 1838 inclusively, the amounts were as follow,

| | | | | | |
|-----------------|---------|--------|-----|--------|------|
| The year 1816 - | 414.385 | 1823 - | 444 | 1830 - | 406 |
| 17 - | 190 | 24 - | 193 | 31 - | 27.4 |
| 10 - | 192 | 25 - | 173 | 32 - | 26.8 |
| 19 - | 136 | 26 - | 268 | 33 - | 21.0 |
| 20 - | 599.412 | 27 - | 475 | 34 - | 13.2 |
| 21 - | 259 | 28 - | 179 | 35 - | 19.1 |
| 22 - | 44 | 29 - | 293 | 36 - | 30.1 |
| | | | | 37 - | 38.9 |
| | | | | 38 - | 69.5 |

The winter of 1838 has left behind it a lasting record of its severity, not only its almost unprecedented parallel, but the sweeping destruction which it has occasioned amongst certain descriptions of evergreen trees & shrubs, and more especially that of the larches; from the height of 30 ft. standing down to the cutting of one or two yds. growth, none seem to have withstood the rigours of the season. & instead of the pleasing relief which it usually affords to the shrubby borders by its beautiful foliage, it has been from its scar & brown appearance obliged universally to be cut down to produce new wood before it can assume its wretched appearance.

At the general meetg of the Horticultural Society on Tuesday (from the Ipswich Journal this was published on Jan. 22d.) Doctor Lindley read some observations on the state of the weather drawn up by Mr. Thompson at the gardens. The last quarter of 1837 was remarkably mild, the average of y. M. being 57.0 and snow day stand at 51. The lowest deg. of cold being 5 above of freez. point. The collect of nights of y. W. inst. was, as compared with the tables given in Luke Howard's "Climate of London" equalled in Jan. 1823, and exceeded in y. same month in 1827, when y. M. stood at 5 below zero; but the mean temperature did not appear to correspond degree. In the last edition of his work, published in 1835 Mr. Howard gave his opinion that of variation of annual temperature periodically appeared to be completely established. That this period seemed to be about 17 yrs. - The meteorological register, kept at the gardens, from Dec. 5th to Jan. 16th gives barom. height Jan. 8. 30. 44. 8 p.m. Dec. 20. 22. 23. Th. long. Dec. 15. 55. low. Jan. 14. 4. quantity of rain 1.22 in.

The follow. g. are as stated in my letter to J. B. H. Dated Feby 10 / 38
1788 Dec. 29, Therm. lowest in the night 5°

30.

2

1789 Jan. 5. 5.75

1795 Jan. 24 at midnight 4

1796 Dec. 25, a little before sunrise 2 below zero

1798 Dec. 27 Half past 7 p.m. 2.5 below zero

1799 Dec. 31, early in y^r. morn. 3 below zero, but at 8, and also at 9
o'clock 3 above zero.

1802 Jan. 15, Half past 8 p.m. 1°

1816 Jan. 17, Lowest dur. of y^r. night, 3°

1814 Jan. 9, 2

13, 4.5

15, 4

1816 Feb. 9, 4

1820 Jan. 14, 3

Meteorological Journal, 1839.

For explanation of the columns, Vide 1835. v.

January.

| | | | | | depth of Rain |
|---|--------|-------|-------|--|------------------|
| 1 | 40 | 30.17 | 66 | | |
| . | 46.545 | 265 | | | |
| . | 47 | 29.87 | 37 | | |
| 2 | 39 | 90.62 | | | |
| . | 43 | 13.5 | 92.59 | | |
| . | 38.5 | 94 | 37 | | |
| 3 | 54 | 85.65 | | | |
| . | 47 | 45 | 83.64 | | |
| . | 47 | 53 | 39 | | |
| 4 | 32 | 24.61 | | | |
| . | 44.545 | 52.59 | | | |
| . | 34 | 60 | 30 | | |
| 5 | 31 | 60.62 | | | |
| . | 38 | 50 | 44.61 | | |
| . | 34 | 41 | 28% | | |

January.

| | | | | |
|---|----------------|-----|---|---|
| 1 | 3 ² | S W | 3 | close. fair |
| . | WSW | 4 | | fair. fine. little rain. |
| . | 3 | W | 3 | black clouds. fair. little rain. chly fine but less w. ⁽¹⁾ |
| 2 | WNW | 1 | | fair & thin. thicker clouds & very little rain.. |
| . | WNW | 1 | | fine |
| . | WNW | 1 | | fair. more cloudy & w. ⁽²⁾ SW. some rain. less cloudy |
| 3 | SW | 1 | | fair. more w. ⁽²⁾ |
| . | SW | 2 | | rather cloudy. more w. ⁽³⁾ . |
| . | SW | 4 | | more cloudy. some rain (or shower). less w. ⁽¹⁾ but more |
| 4 | WSW | 2 | | few drops. clouds & more w. ⁽³⁾ |
| . | W | 3 | | fly ⁽²⁾ shower or two at a dis: by the N. few clouds. clear & less |
| . | SW | 1 | | clear. fine |
| 5 | SW | 1 | | fine. very few small clouds |
| . | SW | 1 | | bright |
| . | WSW | 1 | | clear. fine |

| Jan. | 6 | 29 | 61 61 |
|------|------|-----------|--|
| . | 31. | 5 39 | 53 61 |
| . | 39 | | 16 |
| 7 | 13.5 | 28. 80 50 | 39 |
| . | 41 | 41 | 91 53 |
| c. | 35 | 29. 5 | 30 |
| 0 | 20.5 | 31 57 | |
| . | 34 | 37 | 38 55 |
| . | 28.5 | 41 | 25 |
| 9 | 27 | 47 56 | Nearly almost all day There were snow looks & clouds for dis: |
| . | 29. | 31 | 70 53 |
| . | 20.5 | 32 | 99 18 1/4 |
| 10 | 24 | 32 | 30. 13 58 |
| . | 37 | 35 | 13 59 |
| . | 36 | | 11 37 1/2 |
| 11 | 40 | | 165 |
| . | 43.5 | 41 | 29. 93 68 |

| | | | |
|----|-------|-----|---|
| 6 | WSW | 2 | close |
| . | 5 1/2 | SSE | 2 very close. snow foll'd by rain then less w. & drizzl. ⁽¹⁾ 8 w. WSW. bright & w. SW & less (6) |
| . | 20 | SSE | 2 strong w. (2) foll'd by a violent hurricane (10) & storm of rain, cont'd drizzl & foll'd by some hard rain. some rain but very |
| 7 | SW | 6 | very fine |
| . | 2 | SW | 6 storm was a diss. S ward but fine. fair. storm of snow left 10 (2) & clear |
| . | 3 | SW | 1 more or less cloudy. fair. fall of snow (10). W bet. 6 & 7 A.M.; |
| 8 | W | 2 | clear. |
| . | 27 | W | 3 rather cloudy. fall of snow & small hail at eve. very fine 8 w. less (1) |
| . | 2 | W | 1 rather cloudy. a fall of snow & hail abt. mid th . clear |
| 9 | WNW | 1 | clear. |
| . | 0 | NW | 1 |
| . | 2 | SW | 2 clear. somewhat cloudy. clear |
| 10 | SW | 1 | rather cloudy. clear |
| . | 2 | SW | 1 fog but bright. hazy. fair |
| . | 5 | SSW | 1 fair. cloudy but q. morn. quite overcast & hazy |
| 11 | SW | 2 | hazy |
| . | 6 | SW | 3 hazy & abt. noon little rain |

Jan.

| | | | |
|----|---------|-------------------|------------------------------------|
| 10 | 95 | 107 $\frac{1}{2}$ | |
| 12 | 769 | | |
| 14 | 15.5 | 268 | |
| 18 | 13 | 30 | |
| 13 | 29.8365 | | |
| 17 | 47.5 | 8265 | |
| 18 | 82 | 38 | |
| 11 | 8361 | | |
| 14 | 44.5 | 7062 | |
| 18 | 58 | 30 | A. B. 2 |
| 15 | 6169 | | |
| 19 | 39.5 | 5756 | |
| 22 | 79 | 267 $\frac{1}{2}$ | |
| 16 | 8258 | | Snowy lookg clouds far SE all day. |
| 25 | 7858 | | |
| 29 | 79 | 267 $\frac{1}{2}$ | |
| 17 | 8761 | | |

| | | | |
|----|---|-------|---|
| 10 | 6 | SW 3 | cloudy. but little rain. hard rain. very ⁶¹ & less NNW |
| 12 | 3 | NW 1 | close. w. W & fair. fine |
| | | W 1 | fine. cloudy |
| | 5 | WSW 2 | cloudy more or less. no haze |
| 13 | 3 | WSW 3 | ch ^{ly} cloudy but quite free from haze |
| | | WSW 3 | ch ^{ly} fair. bright |
| | 2 | WSW 2 | rather cloudy. but ch ^{ly} more fair. close |
| 14 | | WSW 1 | close & little rain |
| | 5 | WSW 2 | fair even. but more w. (3) & less w. (2). clear |
| | 2 | W 3 | more cloudy, & driv. of showers of rain & snow. very fine |
| 15 | | WNW 2 | clear. clouds. few clouds |
| | 2 | NW 3 | few clouds. fine & less w. (1) |
| | 7 | WNW 1 | very fine. clear |
| 16 | | WNW 1 | clear. fair |
| | 1 | NW 1 | few clouds. bright. rather cloudy |
| | 4 | WNW 1 | rather cloudy |
| 17 | | NW 1 | rather cloudy. & too slight fall of snow |

| | | | | |
|------|------|-------|----------|--|
| Jan. | 35.5 | 36 | 89 63 | |
| . | 27 | | 97 | 21 |
| 10 | 26 | | 30. 5 62 | |
| . | 33 | 35.5 | 1 61 | |
| . | 29 | 29.92 | 31 | |
| 19 | 41 | | 36 68 | |
| 45 | 41 | 20 | 70 | |
| . | 32 | 70 | 31 | coloured very active & espec'dly beautiful N.W. to S.E. abt. 3 miles along f ^m . portion pag. A. B. is. All over. & greatest pt. of w. f ^m . A long account of this remarkable aurora borealis is given in the Athenaeum for March page 228. as observed at Dublin. |
| 20 | 35 | 06 | 61 | |
| . | 41 | 39 | 76 62 | |
| . | 39 | 67 | 36 72 | |
| 21 | 41.5 | 59 | 68 | |
| . | 41 | 63.5 | 64 70 | |
| . | 35.5 | 82 | 38 72 | |
| 22 | 32 | 30. 1 | 60 | |
| ? | 37.5 | 37.5 | 8 57 | |

| | | | |
|----|-----|-----|--|
| 3 | NNW | 1 | bright |
| . | 1 | NW | clear, not so clear. very fine |
| 10 | 1 | WNW | 1 very fine. fine |
| . | WNW | 1 | fine. |
| . | 52 | W | 1 rather cloudy & more cloudy aft. midnt |
| 30 | 19 | SW | 1 much rain. 15? WNW aft. noon & less (3) |
| . | 3 | NW | 2 very fine. less w. (2) |
| . | 1 | NW | 2 clear. fine & w. WSW & less (1) previously |
| 20 | 1 | WSW | 1 fine. more w. (2) & rather close |
| . | 1 | SW | 2 close. even grain |
| . | 6 | SW | 2 rain continuing all or chief of y. night & with fog in y. p. morn. & w. NNE & less (1) |
| 70 | 21 | NE | 1 hazy & ch. rain - |
| . | 52 | NE | 1 little rain. dull |
| . | 2 | NW | 2 fair more or less. ch. very fine but little of small hail |
| 22 | 2 | N | 1 few clouds about. sometimes falls of snow or sleet |
| . | 2 | N | 1 .. slight fall of sleet. fine |

| | | | | | | | |
|-----------|------|----------|--------|--|----|---------|---|
| Jan. | 31.5 | 31° | 30 1/2 | | 3 | N 1/2 | fair. more cloudy. some small hail. fair |
| 23 | 31 | 45 63 | | | 23 | NNW 1/2 | fair |
| 30 | 39 | 45 61 | | | 4 | NNW 1/2 | quite cloudy |
| 33 | | 46 | 28 1/2 | | 5 | NW 1/2 | less cloudy but hazy. cloudy. w. w & still hazy |
| 24.32 | | 41 65 | | | 26 | WNW 1 | fair. thin clouds. |
| 31 | 39 | 35 62 | | | 3 | NW 1 | fair. cloudy |
| 30 | | 25 | 32 1/2 | | 05 | 3 NW 1 | little snow just perceived now & then. less cloudy. fine rain |
| 25.38 | | 29.91 68 | | | 25 | W 1 | rain. less cloudy but little rain |
| 43 | 41.5 | 88 63 | | | 5 | NNW 1 | little rain at times |
| 36 | | 92 | 28 1/2 | | 3 | NE 1 | little rain. fair. snow at times |
| 25.32 | | 30.11 66 | | | 26 | NE 1 | fall of snow |
| 33.5 39 | | 19 63 | | | 3 | NE 1 | few slight falls of snow. fair |
| 29.5 | | 27 | 26 3/4 | | 4 | NE 1 | fair. more cloudy but little or no snow. cloudy |
| 27.31.5 | | 30 58 | | | 15 | NE 1/2 | cloudy. less cloudy but very little snow |
| 35.5 37.5 | | 26 59 | | | 5 | NNE 1/2 | some gentle snow. more or less cloudy |
| 30.5 | | 15 | 27 1/2 | | 5 | NNE 1/2 | much as before. hazy |
| 28.30 | | 29.95 66 | | | 28 | NNW 1 | hazy. cloudy & w. WNW |

| | | | | |
|------|------|-------|---------|----------------------|
| Jan. | 35.5 | 37 | 82.65 | |
| . | 31 | 57 | . | 21 |
| 29 | 22 | 12.61 | | |
| 31 | 35 | 21.60 | | |
| . | 31 | 28.98 | | 16½ |
| 30 | 18 | 31.5 | 29.357 | |
| . | 29 | 32 | 28.9360 | 27 st set |
| . | 25 | 32 | 83 | 21 |
| 31 | 27 | 32 | 97.61 | |
| . | 32 | 33 | 29.2359 | |
| . | 27 | | 60 | 20½ |

| | | | | | |
|------|-------|-------|-------|-------|-----|
| Max | 51 | 47.5 | 30.46 | 70 | 10½ |
| Min | 10 | 31.5 | 28.80 | 50 | 16½ |
| Mean | 35.66 | 29.76 | 62 | 30.09 | |

Rain 1.45
Snow water .65
Total 2.10

| | | | | |
|-----|------|------|---|----------------|
| 1/2 | WNW | 1 | cloudy | |
| . | 3 | W 2 | snow as fine as dust succeeded by a heavy fall. bright w. th | less w.(1). |
| 29 | 3 | WNW | few clouds. clear. fair. suddenly overcast & thickly more w.(2) & SW | |
| 20 | . | SW 3 | m th snow foll. by snow & rain. & more w.(4) | |
| . | 2 | NW 1 | thick upw ^d . but vis. fine. clear & less w.(2) | 6 ^o |
| 30 | 3 | W 1 | clear. few small clouds. Div. snowfall pass. N ^{ward} . | |
| . | W 1 | . | slight fall of snow. chly close. w. SW | |
| . | 3 | SW 1 | a very heavy fall or more of snow snow more or less & w. NE. fine & w. NW. more w.(3) & p | |
| 31 | 1 | NW 3 | other. less w.(1) & W. & fine. w. NE & some snow. | |
| 31 | 1 | NW 3 | snow w. few very thick & heavy falls closely foll. each other. & more snow dur. 9 th even. 2 | |
| . | NE 1 | . | falls of snow in quick succession. gloomy. more w.(2) | |
| 30 | 2 | NE 2 | cloudy. fine. w. NNW. | |

February.

| | | | | |
|---|----|-------|-------|--|
| 1 | 27 | 29.89 | 60½ | |
| . | 35 | 31 | 89.61 | |

| | | | | |
|----|----|---|-------|---|
| 28 | 12 | 1 | NNW 2 | Irregular snow sometimes very thick & heavy at other times, light. fair |
| . | 31 | 1 | NW 1 | more cloudy. flight of snow in qd. course of qd. even. 2 |

Minimum
Extreme Vari-

READING, PHILOSOPHICAL INSTITUTE 1831-1854

Mean Altitude of the Month. - 29.800 Inches.

Latitude.
Altitude.

November 1838.

| Day of Month. | Regist Therm. Thermometer. | | | | | | | Barometer. | | Wind | Rain | Weather. | |
|---|----------------------------|-----|------|--------|------|--------|---------|------------|---------|----------|-----------------------------|---------------------------|-------------------|
| | Min | Max | Dif. | 9 a.m. | Noon | 3 p.m. | 9. a.m. | Noon. | 3. p.m. | | | | |
| 1. | 39 | 48 | 9 | 47 | 48 | 46 | 29.310 | 29.280 | 29.200 | 0.10 SW. | Overcast, Damp. | Fine & Clear. | |
| 2. | 37 | 48 | 11 | 42 | 44 | 47 | .220 | .190 | .150 | 0.03 S. | Cloudy, light Deposit. | Cloudy, light Wind. | |
| 3. | 33 | 45 | 12 | 37 | 41 | 44 | .330 | .270 | .150 | 0.12 S. | Overcast, Cold Air. | Overcast, Cold Air. | |
| 4. | 41 | 50 | 9 | 44 | 48 | 49 | 28.700 | 28.660 | 28.660 | 0.00 SW. | Fine, lightly Cloudy. | Fine, lightly Cloudy. | |
| 5. | 40 | 48 | 8 | 46 | 47 | 47 | 29.052 | 29.110 | 29.200 | 0.00 W. | Overcast, Cold Air. | Fine, light Clouds. | |
| 6. | 35 | 47 | 12 | 37 | 44 | 46 | .580 | .580 | .580 | 0.35 SW. | White Frost. | Cloudy, Cold Air. | |
| 7. | 45 | 57 | 12 | 55 | 56 | 56 | .310 | .300 | .280 | 0.07 SW. | Cloudy, light Rain, & Wind. | Cloudy, brisk Wind. | |
| 8. | 46 | 53 | 7 | 49 | 52 | 52 | .420 | .415 | .410 | 0.38 SW. | Fine & Clear. | Overcast, Cold Air. | |
| D. | 9. | 44 | 48 | 4 | 45 | 47 | 47 | .240 | .250 | .310 | 0.00 SW. | Overcast, light Rain. | Cloudy, Cold Air. |
| 10. | 36 | 45 | 9 | 40 | 44 | 44 | .580 | .580 | .620 | 0.00 SW. | Fine & Clear. | Fine and Clear. | |
| 11. | 31 | 36 | 5 | 31 | 33 | 35 | .520 | .480 | .473 | 0.00 N. | Overcast, Foggy. | Frosty Air. | |
| 12. | 34 | 42 | 8 | 38 | 41 | 41 | 30.000 | 30.000 | 30.070 | 0.00 NE. | Fine & Clear. | Frosty Air. | |
| 13. | 31 | 43 | 12 | 37 | 41 | 42 | .280 | .280 | .260 | 0.00 NE. | Fine & Clear. | Frosty Air. | |
| 14. | 32 | 42 | 10 | 35 | 40 | 41 | .100 | .060 | .010 | 0.04 NE. | d. | d. | |
| 15. | 38 | 43 | 5 | 40 | 41 | 42 | 29.760 | 29.720 | 29.700 | 0.03 N. | Overcast, light Deposit. | Overcast, light Deposit. | |
| 16. | 41 | 44 | 3 | 42 | 44 | 43 | .560 | .560 | .552 | 0.00 E. | d. | Overcast, Cold Air. | |
| 17. | 39 | 46 | 7 | 41 | 44 | 45 | .600 | .600 | .600 | 0.44 SW. | Overcast, Mild. | Overcast, Mild. | |
| 18. | 41 | 44 | 3 | 42 | 43 | 43 | .480 | .480 | .490 | 0.82 NE. | Overcast, with Rain. | Overcast, continued Rain. | |
| 19. | 39 | 41 | 2 | 40 | 40 | 38 | .400 | .380 | .340 | 0.22 N. | d. | with Rain & Wind. | |
| 20. | 37 | 40 | 3 | 38 | 39 | 39 | .520 | .520 | .520 | 0.00 N. | d. | Cold Air & W. | |
| 21. | 36 | 39 | 3 | 37 | 38 | 38 | .260 | .230 | .190 | 0.18 NE. | d. | Foggy, Cold Air. | |
| 22. | 39 | 44 | 5 | 42 | 43 | 43 | .040 | .032 | .040 | 0.05 N. | d. | Foggy, Cold Air. | |
| 23. | 37 | 44 | 7 | 41 | 43 | 42 | .370 | .375 | .380 | 0.00 N. | Cloudy, Damp. | Cold Air. | |
| C. | 24. | 35 | 38 | 3 | 36 | 37 | 37 | .450 | .455 | .500 | 0.00 N. | Overcast, brisk. | Cold Wind. |
| 25. | 28 | 35 | 7 | 29 | 34 | 34 | .840 | .853 | .853 | 0.00 N. | White Frost. | Fine & Clear, Frosty Air. | |
| 26. | 31 | 35 | 4 | 33 | 34 | 33 | .710 | .703 | .720 | 0.00 N. | Overcast, Sharp Frost. | Overcast, Sharp Frost. | |
| 27. | 31 | 37 | 6 | 34 | 36 | 36 | .255 | .205 | .070 | 0.16 E. | d. | d. - with cold rain. | |
| 28. | 35 | 47 | 12 | 44 | 45 | 46 | 28.795 | 28.650 | 28.470 | 0.50 S. | d. | d. - cold rain & Wind. | |
| 29. | 46 | 51 | 5 | 48 | 50 | 49 | .465 | .480 | .500 | 0.09 SW. | Cloudy, high Wind. | Cloudy, high Wind. | |
| 30. | 45 | 50 | 5 | 47 | 49 | 49 | .850 | .895 | .965 | 0.00 S. | d. | d. - brisk Wind. | |
| Sum. 1122 1330 208 1217 1286 1294 881.987 881.593 881.263 358 | | | | | | | | | | | | | |
| Mean. 37.4 44.3 6.9 40.5 42.8 43.1 29.399 29.386 29.375 | | | | | | | | | | | | | |

Thermometer.

Maximum of the Month. (7.) - 57
Minimum of d. (25.) - 28
Extreme difference of d. - 29 degrees.
Mean Temperature of the Month. - 40.85 Degrees.

Barometer.

Maximum height in the Month. (13.) - 30.280
Minimum d. d. (29.) - 29.468
Extreme variation in d. - .0815 inch.

Mean Altitude of the Month. - 29.387. Inches

Total quantity of Rain. - 3.58 Inches.
Rain has fallen on 16 days in this Month.
The Wind has blown from the North. - 1 Day.
North East. - 13. d.
East. - 2. d.
South East. - 1. d.
South. - 3. d.
South West. - 9. d.
West. - 1. d.

December 1838.

| Day of Month | Regist Therm. Thermometer | | | | | | | Barometer. | | | | | | | Wind | Weather |
|--------------|---------------------------|------|-------|--------|------|--------|--------|------------|---------|---------|------|---------------------------------|---------------------------------|--|------|---------|
| | Min. | Max. | Diff. | 9 a.m. | Noon | 3 p.m. | 9 a.m. | Noon | 3 p.m. | Rain | | Morning | Evening | | | |
| O. 1. | 42 | 51 | 9 | 45 | 50 | 50 | 29.410 | 29.400 | 29.365 | 0.30 | S.W. | Overcast, light Wind, cold Air. | Overcast, light Wind & Rain. | | | |
| 2. | 50 | 51 | 1 | 50 | 50 | 50 | .300 | .320 | .320 | 0.37 | S. | S., Strong Wind, & Rain. | D. - light Rain & Wind | | | |
| 3. | 43 | 49 | 6 | 44 | 48 | 48 | .310 | .300 | .300 | 0.01 | S.W. | Fine, Damp Air. | Cloudy, light Showers. | | | |
| 4. | 39 | 45 | 6 | 41 | 44 | 44 | .450 | .450 | .470 | 0.04 | S.W. | Fine & Clear. | Fine & Clear. | | | |
| 5. | 36 | 45 | 9 | 42 | 43 | 44 | .720 | .740 | .800 | 0.00 | W. | Overcast, Damp Air. | Cloudy, Cold Air. | | | |
| 6. | 33 | 37 | 4 | 34 | 36 | 36 | 30.133 | 30.135 | 30.135 | 0.24 | S.W. | Thick Fog. | Thick Fog | | | |
| 7. | 34 | 45 | 11 | 44 | 44 | 44 | .120 | .120 | .140 | 0.04 | N.E. | Overcast, light Rain. | Cloudy, Cold Air. | | | |
| D. 8. | 34 | 40 | 6 | 35 | 38 | 39 | .235 | .220 | .240 | 0.00 | N. | White Frost. | Fine & Clear, Frosty Air. | | | |
| 9. | 31 | 34 | 3 | 32 | 33 | 33 | .260 | .260 | .260 | 0.00 | N.E. | Thick Fog, Frosty Air. | Light Fog, Frosty Air. | | | |
| 10. | 29 | 35 | 6 | 30 | 32 | 34 | .155 | .120 | .100 | 0.00 | S.W. | White Frost, light Fog. | Overcast, Frosty Air. | | | |
| 11. | 32 | 42 | 10 | 38 | 41 | 41 | .140 | .150 | .180 | 0.00 | N. | Overcast, Cold Air. | Overcast, Cold Air. | | | |
| 12. | 37 | 42 | 5 | 39 | 41 | 41 | .200 | .200 | .180 | 0.00 | S.W. | D. - light Fog. | D. - Cold Damp Air. | | | |
| 13. | 39 | 43 | 4 | 40 | 42 | 42 | .190 | .190 | .190 | 0.00 | S.W. | D. - light Fog. | D. - D. | | | |
| 14. | 39 | 43 | 4 | 41 | 42 | 42 | .260 | .260 | .240 | 0.02 | W. | Thick Fog, | Light Fog, Clearing. | | | |
| 15. | 38 | 42 | 4 | 40 | 41 | 40 | .220 | .220 | .180 | 0.00 | N.E. | Cloudy, Mild. | Overcast, Cold Air. | | | |
| 16. | 33 | 37 | 4 | 35 | 36 | 36 | .205 | .200 | .200 | 0.00 | N.E. | Overcast, light Fog. | Overcast, light Fog. | | | |
| 17. | 33 | 35 | 2 | 34 | 34 | 34 | .200 | .204 | .204 | 0.00 | N.E. | Overcast, Frosty Air. | D. - light Fog, Frosty Air. | | | |
| 18. | 33 | 36 | 3 | 34 | 35 | 34 | .180 | .164 | .164 | 0.00 | N.E. | D. - D. | Cloudy, Frosty Air. | | | |
| 19. | 32 | 35 | 3 | 33 | 34 | 34 | .080 | .074 | .073 | 0.00 | N.E. | D. - D. | Overcast, Frosty Air. | | | |
| 20. | 31 | 40 | 9 | 36 | 39 | 39 | .040 | .055 | .067 | 0.11 | S. | D. - Cold Air. | D. - with Rain. | | | |
| 21. | 33 | 38 | 5 | 34 | 35 | 37 | .210 | .223 | .225 | 0.11 | E. | D. - D. | D. - Cold Air. | | | |
| 22. | 35 | 38 | 3 | 36 | 37 | 37 | 29.970 | 29.945 | 29.934 | 0.23 | S.E. | D. - with Rain | D. - light Rain. | | | |
| 23. | 37 | 46 | 9 | 43 | 44 | 45 | .380 | .330 | .334 | 0.11 | S. | D. - D. | D. - D. | | | |
| C. 24. | 42 | 45 | 3 | 43 | 44 | 40 | .160 | .160 | .140 | 0.05 | E. | Overcast, light Rain. | Foggy, light Rain. | | | |
| 25. | 32 | 35 | 3 | 33 | 34 | 34 | .570 | .640 | .650 | 0.00 | N. | Fine & Clear, Frosty Air. | Fine & Clear, Frosty Air. | | | |
| 26. | 27 | 36 | 9 | 31 | 33 | 35 | .740 | .675 | .580 | 0.17 | S. | Fine, Frosty Air. | Overcast, Frosty Air. | | | |
| 27. | 34 | 40 | 6 | 37 | 39 | 39 | .570 | .600 | .670 | 0.00 | N.W. | Fine & Clear, White Frost. | Cloudy, Cold Air. | | | |
| 28. | 31 | 38 | 7 | 33 | 35 | 37 | 30.140 | 30.140 | 30.160 | 0.00 | S.W. | D. - D. - D. | Fine & Clear. | | | |
| 29. | 30 | 42 | 12 | 38 | 40 | 41 | .080 | .080 | .075 | 0.09 | S. | Overcast, Cold Air, light Rain. | Overcast, light Rain, cold Air. | | | |
| 30. | 42 | 50 | 8 | 47 | 48 | 49 | .000 | 29.960 | 29.940 | 0.01 | S. | D. - light Rain | D. - light Rain. | | | |
| O. 31. | 34 | 40 | 6 | 35 | 38 | 39 | .390 | 30.410 | 30.420 | 0.00 | S.W. | Fine & Clear, Frosty Air. | Fine & Clear, Frosty Air. | | | |
| | Sum. | 1095 | 1275 | 180 | 1177 | 1230 | 1238 | 928.018 | 927.951 | 927.936 | 1.90 | | | | | |
| | Mean | 35.3 | 41.1 | 5.8 | 37.9 | 39.6 | 39.9 | 29.930 | 29.933 | 29.933 | | | | | | |

Thermometer.

Maximum of the Month. (1.82) 51
 Minimum of d°. (26.) 27
 Extreme difference of d°. 24 degrees.
 Mean Temperature of the Month. 38.2 Degrees.

Barometer.

Maximum height in the Month. (31.) 30.420
 Minimum d°. d°. (24.) 29.140
 Extreme variation in d°. 1.280 inch
 Mean Altitude of the Month. 29.934 Inches.

Total quantity of Rain. 1.90 Inch.

Rain has fallen on 13 days in this Month.

The Wind has blown from the North. 3. Days.

| | | |
|-------------|----|-----|
| North East. | 7. | d°. |
| East. | 2. | d°. |
| South East. | 1. | d°. |
| South. | 6. | d°. |
| South West. | 9. | d°. |
| West. | 2. | d°. |
| North West. | 1. | d°. |

Summary for the Year 1838.

| Months. | Thermometer. | | | | Barometer. | | | | Rain in <small>feet fathom per fathom</small> | Wind. | | | | | | | |
|----------------|--------------|------|-------|--------|------------|--------|------------|--------|---|-------|------|----|------|----|------|-----|------|
| | Max. | Min. | Diff. | Mean. | Max. | Min. | Difference | Mean. | | N. | N.E. | E. | S.E. | S. | S.W. | W. | N.W. |
| January..... | 47 | 6 | 41 | 28.1 | 30.220 | 29.120 | 1.100 | 29.739 | 0.37 | 3 | 3 | 13 | 6 | 1 | 5 | 2 | 1 |
| February..... | 49 | 23 | 26 | 28.75 | 30.240 | 28.500 | 1.740 | 29.414 | 2.22 | 11 | - | 14 | 6 | - | 1 | 3 | 2 |
| March..... | 47 | 31 | 16 | 42.6 | 30.393 | 28.850 | 1.543 | 29.676 | 1.14 | 15 | 3 | 6 | 1 | 2 | 6 | 11 | 1 |
| April..... | 63 | 27 | 36 | 44.55 | 30.160 | 29.010 | 1.150 | 29.645 | 0.87 | 10 | 11 | 2 | 1 | 2 | - | 10 | 3 |
| May..... | 75 | 36 | 39 | 53.55 | 30.260 | 29.390 | 0.870 | 29.763 | 0.83 | 11 | - | 17 | - | 3 | 4 | 6 | 1 |
| June..... | 76 | 42 | 34 | 58.7 | 30.140 | 29.400 | 0.740 | 29.752 | 4.18 | 24 | 1 | 2 | - | 2 | 9 | 10 | 2 |
| July..... | 80 | 46 | 34 | 61.5 | 30.120 | 29.500 | 0.620 | 29.893 | 1.41 | 13 | 2 | 1 | - | - | 9 | 14 | 3 |
| August..... | 76 | 43 | 33 | 60.8 | 30.113 | 29.120 | 0.993 | 29.815 | 1.23 | 14 | 1 | 2 | - | - | 7 | 15 | 5 |
| September..... | 70 | 38 | 32 | 55.35 | 30.393 | 29.140 | 1.253 | 29.857 | 3.11 | 10 | 5 | 5 | - | 2 | 2 | 12 | 3 |
| October..... | 61 | 30 | 31 | 50.35 | 30.280 | 29.180 | 1.100 | 29.860 | 2.43 | 11 | 3 | 7 | - | - | 4 | 14 | 1 |
| November..... | 57 | 28 | 29 | 40.85 | 30.280 | 29.465 | 0.815 | 29.387 | 3.58 | 16 | 1 | 13 | 2 | 1 | 3 | 9 | 1 |
| December..... | 51 | 27 | 24 | 38.2 | 30.420 | 29.140 | 1.280 | 29.934 | 1.90 | 13 | 3 | 7 | 2 | 1 | 6 | 9 | 2 |
| Sum..... | | | | 563.30 | | | | | 23.27 | 151 | 33 | 89 | 18 | 14 | 56 | 115 | 25 |
| Mean..... | | | | 46.94 | | | | | 29.728 | | | | | | | | |

Thermometer.

Maximum of the Year (13 July) 80
 Minimum of d° (20 Jan.) 6
 Extreme variation 74 degrees.

Mean Temperature of the Year 46.94 Degrees.

Barometer.

Maximum of the Year (31 Dec.) 30.420
 Minimum of d° (9 Feb.) 28.500
 Extreme variation 1.920 inch.

Mean Altitude of the Barometer 29.728 Inches.

Total quantity of Rain 23.27 Inches.

Rain has fallen on 151 days during the year.

| | | |
|---|-----|------|
| The Wind has blown from the North | 33 | Days |
| North East | 89 | d° |
| East | 18 | d° |
| South East | 14 | d° |
| South | 56 | d° |
| South West | 116 | d° |
| West | 25 | d° |
| North West | 15 | d° |

819
November, 1838.

| | | 8 | 2 | 11 | av. | 3 | |
|----|-----|----|----|----|-----|----------------|-----------------------------------|
| 1 | Th | 48 | 47 | 48 | 45 | 9 ⁵ | S W moist & rainy. Hazy, clear at |
| 2 | Fr | 40 | 43 | 44 | 48 | 3 | N W bright clear rain |
| 3 | Sat | 37 | 46 | 46 | 43 | 4 | N W sunny. Moderate wind, Calm |
| 4 | S | 45 | 50 | 45 | 47 | 1 | N W Do Do finish. Do |
| 5 | M | 45 | 48 | 45 | 46 | 9 | N W Cloudy, moist. Fine E |
| 6 | Tu | 38 | 48 | 48 | 45 | 7 | N W Cloudless. Fine Driest |
| 7 | W | 54 | 57 | 54 | 55 | 7 | N W Rainy. Bright Clear few |
| 8 | Th | 50 | 53 | 49 | 51 | 5 | N W Cloudless sunnier than rainy |
| 9 | Fr | 49 | 49 | 44 | 47 | 4 | N W Rainy. Clearing few |
| 10 | Sat | 40 | 47 | 41 | 43 | 6 | N W sunny. Rain |
| 11 | S | 34 | 39 | 40 | 38 | 8 | N W Foggy. Dry & clear E |
| 12 | M | 38 | 45 | 37 | 40 | 6 | N W Cloudless. Fine throughout. |
| 13 | Tu | 36 | 46 | 37 | 40 | 4 | N W Do Do |
| 14 | W | 36 | 45 | 43 | 41 | 3 | N W Do Do |
| 15 | Th | 42 | 44 | 44 | 43 | 1 | N W & Driest. Foggy dark moist |
| 16 | Fr | 44 | 46 | 42 | 44 | 8 | N W & Foggy moist |
| 17 | Sat | 42 | 44 | 42 | 43 | 7 | N W & Do Do |
| 18 | S | 44 | 45 | 45 | 45 | 6 | N E rainy. Rained all day |
| 19 | Th | 46 | 39 | 40 | 42 | 6 | N E Do Hazy wind - moist cold |
| 20 | Fr | 39 | 43 | 39 | 40 | 5 | N E moist calm |
| 21 | Tu | 39 | 40 | 40 | 40 | 6 | N E Windy, gusty cold |
| 22 | W | 44 | 46 | 42 | 44 | 2 | N E moist calm. Clear E |
| 23 | Th | 44 | 46 | 38 | 43 | 3 | N E Cloudy Do |
| 24 | Sat | 39 | 39 | 33 | 37 | 6 | N E Dry |
| 25 | S | 33 | 37 | 34 | 35 | 2 | N W sunny. Fog out. Clear in |
| 26 | M | 33 | 33 | 31 | 32 | 9 | E Dry East wind. Hazy clear |
| 27 | Tu | 33 | 35 | 29 | 36 | 8 | E Do. Windy |
| 28 | W | 39 | 46 | 57 | 45 | 1 | S E moist. Blows away. Clear |
| 29 | Th | 51 | 51 | 48 | 50 | 8 | S W. Squally with some sunshine |
| 30 | Fr | 48 | 51 | 48 | 49 | 9 ⁵ | N W Cloudy, few overcast |

820
November, 1838.

| Slightest Lowest av. | | |
|----------------------|----|----|
| 57 | 31 | 26 |
| Desolay | 55 | 32 |

| | | | |
|----------------|---------|-----|----|
| Flood 1 - 12 M | Nov 19. | 8 M | 11 |
| Last q. - 3 M | Jan 24. | 7 M | 11 |

Temperature
Slightest Lowest av.

| | | | | | | |
|-----------|----|-----------------|----|-----------------------|-----|-----|
| 48 | 37 | 44 | 3 | S W moist variable | 9.1 | 9.5 |
| 57 | 38 | 49 | 10 | W. moist. Picturesque | 8.9 | 9.8 |
| 46 | 34 | 41 ² | 17 | N & N E. Hazy. Foggy | 9.7 | 0.4 |
| 46 | 33 | 61 ² | 24 | N E calm snow | 9.2 | 9.6 |
| 51 | 31 | A1 | 30 | N E. SW. Sunny cold | 8.6 | 0.- |
| <u>Av</u> | | | | | | |

On the whole
a pretty good Nov.
Very variable. Some
Sunday. Some Siberian
breezes, & some heavy squalls

27 Tu Th 29.0

29 Th. at 4 in the morning, with clearing hazy
squall, one peal of thunder apparently at the
shifting of the wind from S E to S W. and one peal
to the East also at 10 at night in a squall with
rain.

821
December, 1838.

| | 8 | 2 | 11 | av | 3 | |
|--------|----|----|----|----|---|---|
| 1 Sat | 48 | 51 | 54 | 51 | 9 | 5 |
| 2 S | 53 | 51 | 50 | 51 | 4 | 5 |
| 3 M | 48 | 50 | 47 | 48 | 5 | 5 |
| 4 Tu | 43 | 48 | 40 | 44 | 4 | 6 |
| 5 W | 39 | 45 | 43 | 42 | 3 | 6 |
| 6 Th | 42 | 42 | 42 | 42 | 2 | 2 |
| 7 F | 47 | 47 | 41 | 45 | 2 | 2 |
| 8 Sat | 37 | 45 | 38 | 40 | 3 | 3 |
| 9 S | 35 | 37 | 39 | 34 | 4 | 4 |
| 10 M | 33 | 37 | 35 | 35 | 3 | 3 |
| 11 Tu | 38 | 41 | 41 | 40 | 2 | 2 |
| 12 W | 40 | 43 | 42 | 42 | 3 | 3 |
| 13 Th | 43 | 44 | 43 | 43 | 3 | 3 |
| 14 F | 42 | 45 | 44 | 44 | 3 | 3 |
| 15 Sat | 40 | 42 | 39 | 40 | 3 | 3 |
| 16 S | 39 | 38 | 39 | 39 | 0 | 3 |
| 17 M | 37 | 37 | 37 | 37 | 3 | 3 |
| 18 Tu | 35 | 35 | 31 | 35 | 3 | 3 |
| 19 W | 35 | 36 | 37 | 36 | 2 | 2 |
| 20 Th | 33 | 40 | 37 | 37 | 2 | 2 |
| 21 F | 38 | 39 | 37 | 38 | 3 | 3 |
| 22 Sat | 36 | 39 | 41 | 39 | 3 | 3 |
| 23 S | 44 | 44 | 44 | 44 | 9 | 6 |
| 24 M | 43 | 40 | 39 | 41 | 3 | 3 |
| 25 Tu | 34 | 37 | 33 | 35 | 7 | 9 |
| 26 W | 30 | 36 | 39 | 35 | 9 | 9 |
| 27 Th | 35 | 40 | 36 | 37 | 7 | 7 |
| 28 F | 35 | 39 | 34 | 36 | 6 | 2 |
| 29 Sat | 39 | 43 | 45 | 42 | 3 | 2 |
| 30 S | 48 | 50 | 43 | 47 | 8 | 2 |
| 31 M | 36 | 41 | 36 | 38 | 5 | 5 |

822
December, 1838.

| Highest | Lowest | Diff. |
|---------|--------|-------|
| 53 | 30 | 23 |
| 51 | 35 | 16 |

Temperature.

Highest. Lowest. av.

| | | | | | | | |
|----|----|----|----|----|--------------------|-----|-----|
| 53 | 37 | 46 | 8 | SW | alt. rain & sun | 9.3 | 0.3 |
| 48 | 33 | 40 | 15 | NW | E foggy & dry | 0.3 | 0.4 |
| 42 | 33 | 37 | 22 | SE | Do dry | 9.9 | 0.3 |
| 43 | 30 | 38 | 29 | SE | SW very changeable | 9.4 | 0.3 |
| 50 | 36 | 42 | 31 | SW | SW cloudy & moist | 0.2 | 0.5 |
| | av | 41 | | | other clear dry | | |

Unusually calm
not one gale all day
mostly cloudy & moist
Spar & fine, generally cold

Sun 1. Heavy showers. Thunder, 4 peals longest
& distant. Heard about 11 at night to the east with a
very heavy rain. about 12 on looking out it was
clear moonlight. I saw a large blur ^{of the light} to
the south east over St Paul's, but heard
no thunder. This probably was the flash
that set fire to the wooden sleep of
Linda near Rochester, which took place
at midnight.

823
January 1839.

| | 1839 | 8 | 2 | 11 | av | B | |
|----|------|----|----|----|----|-----|--|
| 1 | Sa | 40 | 44 | 48 | 44 | 0 3 | SW. Cloudy brus cloudy most |
| 2 | M | 45 | 47 | 45 | 46 | 2 | W. Sunshine Fine day |
| 3 | Tu | 47 | 48 | 48 | 48 | 7 | W. Sunry Do |
| 4 | We | 43 | 45 | 38 | 42 | 5 | St. more cloudy brus Do cloud |
| 5 | Th | 37 | 42 | 37 | 39 | 7 | St. Sunry Do Do |
| 6 | F | 35 | 36 | 50 | 40 | 6 | St. Fresh frost brus mally strong |
| 7 | Sa | 47 | 42 | 28 | 42 | 9 | St. Heavy gale. Snowy |
| 8 | We | 34 | 39 | 36 | 36 | 6 | W. Cloudless Fine day cool |
| 9 | Th | 33 | 35 | 29 | 32 | 6 | NW. Do 10° below zero very cold |
| 10 | F | 36 | 39 | 40 | 36 | 8 | N. h. Freezing & brus. Windy |
| 11 | Sa | 26 | 42 | 45 | 48 | 4 | W. More brus. Drizzling |
| 12 | We | 48 | 47 | 44 | 46 | 2 | W. Cloudy with gl. Clear Freezy |
| 13 | S | 50 | 50 | 49 | 50 | 1 | W. Windy gale. Drusly clear. |
| 14 | M | 44 | 44 | 54 | 43 | 9 8 | St. Cloudy celw Do very now |
| 15 | We | 36 | 42 | 35 | 38 | 0 8 | W. Cloudy brusy thorn. Clearant |
| 16 | N | 34 | 37 | 32 | 34 | 7 | NW. Do spakly of snow. Frost |
| 17 | Th | 30 | 36 | 32 | 33 | 1 | Nh. Sunry dry. Fine day Do |
| 18 | F | 29 | 36 | 35 | 33 | 2 | Nh. Cloudy Do brus cold |
| 19 | Sa | 27 | 43 | 47 | 42 | 6 | St. Rainy blow. Clear celw |
| 20 | S | 38 | 42 | 48 | 43 | 8 9 | St. Housh. Houshlike. Drusly |
| 21 | M | 49 | 45 | 41 | 45 | 7 | St. Drusly all day |
| 22 | We | 35 | 39 | 35 | 36 | 0 1 | W. Sunry clear celw |
| 23 | N | 36 | 40 | 36 | 37 | 4 | N. Do Do Do |
| 24 | Th | 35 | 42 | 41 | 39 | 6 | W. Dark cloud Do |
| 25 | F | 41 | 45 | 40 | 42 | 4 | W. Cloudy Do Do |
| 26 | Sa | 35 | 37 | 34 | 35 | 2 | Nh. Clear brus. dust of meller cold |
| 27 | S | 32 | 34 | 33 | 33 | 3 | NE. Housh snow Fine day |
| 28 | M | 32 | 36 | 32 | 33 | 2 | SE. do. to W. Eveny thake full of snow |
| 29 | We | 32 | 38 | 33 | 34 | 6 | W. Clear suny. 46° in snow. Very rainy, part |
| 30 | N | 23 | 31 | 28 | 27 | 2 | W. Cloudless snowing. Snow blustery |
| 31 | Th | 29 | 32 | 29 | 30 | 7 | W. Housy. It's galash. Snowy celw |

January 824 1839.

| The Moon | | | |
|--|-----------------|------------------------|-----------------|
| Last 7 th | 9 th | First 22 nd | Half |
| New 15 th | 3 rd | Full 4 th | 1 st |
| Temperature | | | |
| Highest Temp. | av | | |
| 50 | 23 | 27 | |
| Do 50 | 27 | 23 | |
| Temperature | | | |
| Highest Temp. | av | | |
| 48 | 37 | 44 | 5 |
| 48 | 29 | 39 ¹ | 12 |
| 50 | 29 | 39 | 19 |
| 49 | 34 | 39 ¹ | 26 |
| 38 | 23 | 31 ¹ | 31 |
| av. 38 ¹ | | | |
| A fine mild, yet dry January till the 30 th when we had the first snow. | | | |

11th Jan. A severe & destructive gale squall as Martinique. After 80 persons killed. Most night much property & shipping lost from midnight, to 6 a.m. in the morning. This appears to have been a much more violent storm a little farther North than between Dublin at 10 a.m. high tide & Chester Liverpool Birne Manchester. The loss of life both in Ireland & the southern coast towns of England a even further the country has been unusually considerable from the blower down of pennys. The destruction of shipping on the Mersey (some American packets) & on the coast of Ireland & the south western of Scotland has been dreadful.

At the Phillips optical Institute Birmingham the wind began to roar at 11 (it was about 12 in London). My Odeon anemometer at was then 250 and to the square foot at 2 miles had risen to 250 and 1/4 to 1/2 to 30 thirty.

SUNBURY VICARAGE, MIDDLESEX



VIEW TAKEN FROM ABOUT W.S.W. & LOOKING TO E.N.E.



VIEW OF GARDEN TAKEN FROM ABOUT E.N.E. & LOOKING TO S.W.

THE

Meteorological Register,

KEPT AT

SUNBURY VICARAGE, MIDDLESEX,

BY THE

REV. JAMES COWE, M.A.,

VICAR AND RURAL DEAN.

1795 to 1839.

REPRODUCED, BY PERMISSION, FROM THE ORIGINAL MS. IN THE
JENYNS LIBRARY, ROYAL LITERARY AND SCIENTIFIC INSTITUTION,
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London:

KENNEDY & CO., PRINTERS, 25, CAMDEN ROAD, N.W.

1889.

Thermometer.

| 1795 May 8 o'clock A.M. | greatest degree of cold. | heat | Barom: Wind | | Weather |
|----------------------------|-----------------------------------|-------|-------------|-----------|-----------------------|
| | | | 8 o'clock | 8 o'clock | |
| 1 37° 55' | 44° | 32 | 29.58 | S W | cloudy |
| 2 49 55 | 43 | 32 | 29.8 | N W | fair |
| 3 47 59 | 42 | 30.1 | 30.1 | E N E. | do. |
| 4 52 62 | 43 | 30.2 | 30.2 | N N E. | do. |
| 5 67 68 | 48 | 30.2 | 30.2 | S W | do |
| 6 59 73 | 56 | 30.2 | 30.2 | N | do |
| 7 52 63 | 45 | 30.2 | 30.2 | N N E. | do |
| 8 56 70 | 52 | 30.1 | 30.1 | N E. | do |
| 9 46 57 | 37 | 30.3 | 30.3 | N N E. | do |
| 10 53 59 | 46 | 30.1 | 30.1 | W | windy |
| 11 53 59 | 57 | 29.85 | 29.85 | N | do |
| 12 46 58 | 40 | 30.15 | 30.15 | N | cloudy & windy |
| 13 50 56 | 46 | 30.1 | 30.1 | N | do |
| 14 45 53 | 44 | 30.1 | 30.1 | S | cloudy & rainy |
| 15 50 56 | 45 | 29.12 | 29.12 | S W | windy |
| 16 47 56 | 42 | 29.82 | 29.82 | E | cloudy |
| 17 45 64 | 45 | 29.9 | 29.9 | S E. | fair |
| 18 56 73 | 48 | 29.5 | 29.5 | S | do |
| 19 57 72 | 53 | 29.95 | 29.95 | N W | do |
| 20 57 70 | 50 | 30.2 | 30.2 | N | do |
| 21 59 75 | 49 | 30.35 | 30.35 | S E. | do |
| 22 62 77 1/2 | 50 | 30.36 | 30.36 | W | do |
| 23 65 80 | 56 | 30.2 | 30.2 | S W | do |
| 24 54 63 | 54 | 30.15 | 30.15 | E | cloudy |
| 25 49 61 | 48 | 30.1 | 30.1 | E | cloudy |
| 26 40 58 | 44* | 30.12 | 30.12 | E | do |
| 27 46 50 | 39 | 30.2 | 30.2 | N E. | do |
| 28 46 58 | 39 | 30.28 | 30.28 | N E. | cloudy; rain at night |
| 29 50 63 | 46 | 29.8 | 29.8 | W | rainy & N. W. windy |
| 30 48 68 | 46 | 29.8 | 29.8 | N | cloudy |
| 31 53 59 | 47 | 29.8 | 29.8 | S W | do |

Mean = $52^{\circ} 62' 36''$ $46' 48''$ The greatest 80° ; the least 37

The mean height of the Thermometer = $54^{\circ} 42'$
reckoned by the greatest & least every day & night

* is for the temp recorded at 8 am 6 A.M.

Octr Thermom Barom Wind Rain Weather

532

1838 Standard Level

| days | temp | baro | Wind | Rain | Weather | |
|------|------|------|-------|------|---------|------------------------|
| 1 | 58 | 48 | 30.04 | 7 | Fair | |
| 2 | 63 | 50 | 30.16 | 26 | Fair | |
| 3 | 63 | 42 | .25 | 8 | do | |
| 4 | 60 | 42 | .40 | 8 | do | |
| 5 | 62 | 45 | .42 | 6 | Fair | |
| 6 | 61 | 47 | .23 | 26 | Cloudy | |
| 7 | 60 | 45 | .21 | 26 | Fair | |
| 8 | 61 | 50 | .21 | 7 | Cloudy | |
| 9 | 60 | 49 | .20 | 7 | do | |
| 10 | 60 | 50 | .10 | mmw | do | |
| 11 | 62 | 43 | 29.99 | S | .043 | Fair |
| 12 | 63 | 33 | .68 | NW | do | |
| 13 | 49 | 32 | .78 | W | do | |
| 14 | 57 | 40 | .78 | S | .116 | Rain |
| 15 | 60 | 45 | .79 | W | .116 | do |
| 16 | 62 | 52 | .80 | NW | .114 | do |
| 17 | 59 | 45 | .42 | S | .060 | Fair |
| 18 | 57 | 48 | .97 | W | .060 | Showery |
| 19 | 63 | 52 | .82 | S | do | Fair |
| 20 | 60 | 47 | 30.10 | S | do | |
| 21 | 63 | 53 | .22 | S | do | |
| 22 | 63 | 53 | 29.96 | S | do | |
| 23 | 61 | 42 | .87 | W | .135 | do, rain at night |
| 24 | 61 | 42 | .99 | S | do | Fair |
| 25 | 59 | 45 | .99 | S | do | Fair |
| 26 | 61 | 49 | .86 | S | do | |
| 27 | 62 | 48 | .98 | S | .569 | do, rain at night |
| 28 | 62 | 44 | .60 | S | .532 | Showery about as 80 |
| 29 | 56 | 41 | .42 | W | do | |
| 30 | 54 | 43 | .64 | S | .506 | Fair |
| 31 | 48 | 40 | .61 | S | .105 | Showery |

1.831

Correct total = 1.757 G.A.B

Nov Thermom Barom Wind Rain Weather

533

1838

Standard Level

| | | | | | | |
|----|----|----|-------|----|-------|-----------------------|
| 1 | 50 | 57 | 29.58 | S | .079 | Cloudy |
| 2 | 53 | 55 | .67 | S | do | |
| 3 | 52 | 57 | .56 | S | .145 | Fair, rain |
| 4 | 55 | 42 | .29 | S | .093 | Cloudy |
| 5 | 56 | 55 | .29 | W | do | |
| 6 | 55 | 47 | .67 | S | do | Fair, rain at night |
| 7 | 61 | 48 | .61 | S | .270 | Fair |
| 8 | 58 | 49 | .62 | S | .410 | Fair, rain at night |
| 9 | 55 | 47 | .50 | S | do | Fair |
| 10 | 60 | 52 | .56 | S | do | |
| 11 | 57 | 53 | .75 | 7 | do | |
| 12 | 46 | 38 | 30.02 | NW | do | |
| 13 | 47 | 28 | .20 | NW | do | |
| 14 | 47 | 31 | .21 | 6 | do | Foggy and cloudy |
| 15 | 44 | 38 | 29.94 | 6 | do | |
| 16 | 49 | 40 | .78 | 6 | do | |
| 17 | 48 | 42 | .76 | 6 | .425 | do, rain at night |
| 18 | 46 | 41 | .67 | NW | .630 | do |
| 19 | 48 | 37 | .60 | 6 | .640 | do |
| 20 | 45 | 35 | .61 | 6 | .640 | Cloudy |
| 21 | 46 | 40 | .66 | 6 | do | Rain at night |
| 22 | 47 | 42 | .55 | 6 | do | Abrupt |
| 23 | 43 | 36 | .66 | 6 | do | do |
| 24 | 48 | 29 | .65 | 6 | do | do |
| 25 | 40 | 33 | .84 | 6 | do | Fair |
| 26 | 34 | 27 | .64 | 6 | do | do |
| 27 | 47 | 37 | .56 | S | .120 | Cloudy, rain at night |
| 28 | 48 | 42 | .21 | S | .1520 | very cloudy |
| 29 | 52 | 47 | .26 | S | .402 | do |
| 30 | 52 | 42 | .32 | S | do | Cloudy |

4.675

Dear Thermom Barom Wind Rain Weather

1838 greatest least

| | | | | | | |
|----|----|----|-------|-----|------|--------------------------|
| 1 | 57 | 49 | 29.91 | 558 | .165 | showy |
| 2 | 57 | 46 | .07 | 5 | .632 | raining |
| 3 | 53 | 41 | .07 | 5 | | fair |
| 4 | 50 | 41 | .07 | SW | .030 | haze, rain at night |
| 5 | 47 | 37 | .78 | SW | | fair |
| 6 | 48 | 38 | 30.15 | RNW | .280 | cloudy w/ rain |
| 7 | 48 | 37 | .10 | N | | cloudy |
| 8 | 44 | 31 | .24 | N | | do |
| 9 | 38 | 27 | .24 | ? | | foggy |
| 10 | 40 | 34 | .21 | SW | | cloudy |
| 11 | 44 | 40 | .22 | S | | foggy |
| 12 | 44 | 30 | .21 | S | | cloudy |
| 13 | 45 | 42 | .20 | S | | do |
| 14 | 43 | 38 | .21 | ? | | haze |
| 15 | 44 | 28 | .23 | 6 | | fair |
| 16 | 38 | 34 | .24 | 6 | | do |
| 17 | 42 | 33 | .23 | 6 | | do |
| 18 | 38 | 33 | .24 | 6 | | cloudy |
| 19 | 40 | 29 | .26 | 56 | | do |
| 20 | 44 | 35 | .22 | 586 | | fair |
| 21 | 45 | 35 | .22 | S8 | .191 | do, rain at night |
| 22 | 47 | 44 | .48 | R86 | | cloudy |
| 23 | 46 | 43 | .45 | R8 | | do |
| 24 | 44 | 32 | .46 | R88 | | fair |
| 25 | 46 | 37 | .67 | 7 | | haze |
| 26 | 42 | 33 | .67 | S | | fair |
| 27 | 42 | 30 | 30.51 | 7 | | do |
| 28 | 43 | 31 | 31.42 | SW | | haze |
| 29 | 41 | 40 | .43 | R86 | .057 | cloudy, rain at night |
| 30 | 57 | 33 | .65 | S | | fair |
| 31 | 48 | 33 | 31.14 | 65 | | |

1.14.9

Correct total = 1.34.9 E.A.B.

534

Thermom Barom Wind Rain Weather

535

Jans greatest least

1839 days

| | | | | | | |
|----|----|----|--------|-----|------|----------------------|
| 1 | 57 | 34 | 29.99 | SW | | fair |
| 2 | 48 | 45 | 30.09 | W | | do |
| 3 | 44 | 42 | 29.99 | SW | | do |
| 4 | 48 | 35 | 30.0 | W | | do |
| 5 | 57 | 31 | 29.76 | W | | fine |
| 6 | 52 | 30 | .76 | S | 4.3 | showy |
| 7 | 52 | 34 | .25 | SW | | cloudy |
| 8 | 42 | 33 | .22 | SW | | fair |
| 9 | 43 | 33 | .68 | SW | | do |
| 10 | 56 | 24 | .79 | RW | | cloudy |
| 11 | 46 | 38 | 30.12 | S | | do |
| 12 | 56 | 50 | .13 | S | | do |
| 13 | 50 | 41 | .16 | W | | fine |
| 14 | 55 | 43 | .17 | R8W | | fair |
| 15 | 48 | 34 | .16 | SW | | cloudy |
| 16 | 42 | 30 | 29.78 | R8W | | fair |
| 17 | 40 | 28 | .74 | W | | cloudy |
| 18 | 37 | 26 | .98 | RW | | fine |
| 19 | 49 | 27 | 30.07 | S | | fine |
| 20 | 43 | 33 | 29.524 | RW | | fair |
| 21 | 50 | 39 | .94 | S | 4.51 | do, rain at night |
| 22 | 57 | 34 | .76 | SW | .290 | rain P.M. |
| 23 | 42 | 32 | .93 | 7 | | fair |
| 24 | 48 | 23 | 30.09 | 7 | | do |
| 25 | 45 | 35 | .25 | SW | | do |
| 26 | 45 | 34 | 30.01 | 7 | | do |
| 27 | 45 | 32 | .04 | RW | | somehow |
| 28 | 43 | 30 | .16 | 8 | | cloudy |
| 29 | 39 | 29 | .04 | R8W | | do |
| 30 | 39 | 22 | 29.76 | R8 | | fair |
| 31 | 35 | 26 | .72 | RW | | |

.784

Rainfall on the 6th inst is evidently 0.43 in.
and not 4.3 in. as written. P.W.D.

Morning Observations for November 1838.

| g | Ther | Ther R | Max | Min | Bar | Atmos |
|----|--------|--------|--------|--------|--------|--------|
| 1 | 57 3/4 | 49 1/4 | 50 3/4 | 48 1/4 | 29.620 | 57 1/4 |
| 2 | 46 3/4 | 42 | 51 1/4 | 40 | 29.562 | 50 1/2 |
| 3 | 42 3/4 | 40 1/2 | 48 1/4 | 37 1/2 | 29.596 | 57 1/2 |
| 4 | 49 3/4 | 46 1/4 | 50 | 40 3/4 | 28.944 | 57 1/4 |
| 5 | 47 1/2 | 45 1/4 | 47 1/2 | 43 | 29.366 | 57 |
| 6 | 42 1/4 | 40 1/2 | 46 1/2 | 38 | 29.844 | 57 1/2 |
| 7 | 53 3/4 | 54 1/4 | 55 1/4 | 40 1/2 | 29.494 | 57 1/4 |
| 8 | 50 3/4 | 48 1/4 | 51 1/2 | 46 3/4 | 29.700 | 58 3/4 |
| 9 | 46 1/2 | 44 1/2 | 57 1/4 | 43 1/2 | 29.538 | 53 1/2 |
| 10 | 40 1/2 | 37 3/4 | 50 1/4 | 35 3/4 | 26.846 | 53 |
| 11 | 36 1/2 | 35 1/4 | 46 3/4 | 31 1/4 | 29.738 | 57 1/2 |
| 12 | 39 1/2 | 38 | 45 1/4 | 35 1/4 | 30.286 | 54 |
| 13 | 38 1/2 | 34 1/2 | 35 1/4 | 30.536 | 56 | - |
| 14 | 37 | 36 3/4 | 46 1/4 | 34 1/4 | 30.350 | 57 1/2 |
| 15 | 45 3/4 | 44 1/2 | 45 | 36 | 30.002 | 57 |
| 16 | 44 1/4 | 43 1/2 | 50 1/4 | 42 1/2 | 29.836 | 56 1/4 |
| 17 | 40 | 39 | 44 | 36 | 29.852 | 49 3/4 |
| 18 | 44 3/4 | 44 1/4 | 49 1/4 | 38 1/2 | 26.692 | 53 |
| 19 | 43 1/2 | 45 1/4 | 46 3/4 | 14 | 29.558 | 57 1/4 |
| 20 | 41 1/4 | 40 | 45 1/2 | 39 | 29.756 | 54 1/4 |
| 21 | 41 1/4 | 41 | 45 | 40 | 29.402 | 56 |
| 22 | 40 1/2 | 39 1/2 | 41 | 38 | 29.318 | 52 1/2 |
| 23 | 44 3/4 | 43 | 44 | 39 | 29.386 | 57 1/4 |
| 24 | 39 | 38 1/2 | 46 3/4 | 38 | 29.056 | 53 1/2 |
| 25 | 36 | 35 1/4 | 39 | 31 1/4 | 30.086 | 48 1/4 |
| 26 | 42 1/4 | 42 | 42 1/2 | 35 1/2 | 29.870 | 52 |
| 27 | 44 | 44 | 44 | 41 | 29.346 | 56 1/4 |
| 28 | 46 1/2 | 50 | 52 | 39 | 28.840 | 52 3/4 |
| 29 | 52 1/4 | 50 1/2 | 53 1/4 | 44 1/4 | 28.656 | 53 |
| 30 | 49 | 48 1/4 | 57 1/4 | 16 1/4 | 29.170 | 58 1/2 |
| 30 | 44 1/4 | 43 | 47 1/2 | 39 1/4 | 29.638 | 53 1/2 |

Evening Observations for November 1838.

| P.M 10 | Ther | Ther R | Bar | Atmos |
|-----------|--------|--------|--------|--------|
| 1 | 42 1/4 | 42 1/2 | 26 | 606 |
| 2 | 43 3/4 | 43 | 29 | 620 |
| 3 | 46 1/2 | 46 1/4 | 30 | 146 |
| 4 | 44 1/4 | 43 3/4 | 29 | 112 |
| 5 | 42 3/4 | 43 | 29.757 | 57 1/4 |
| 6 | 55 1/4 | 54 1/2 | 29.612 | 57 1/4 |
| 7 | | | | |
| 8 | 47 1/2 | 47 1/4 | 29.586 | 56 1/4 |
| 9 | 41 1/4 | 42 1/2 | 29.756 | 58 1/4 |
| 10 | 35 | 36 | 29.958 | 56 1/2 |
| 11 | 39 1/4 | 38 1/4 | 26.984 | 58 1/4 |
| 12 | 34 | 38 | 30.484 | 56 |
| 13 | 38 | 38 1/4 | 30.442 | 53 1/2 |
| 14 | 42 1/4 | 42 | 30.150 | 55 |
| 15 | 45 1/4 | 45 1/4 | 29.896 | 59 3/4 |
| 16 | 40 1/4 | 39 1/4 | 29.872 | 56 1/2 |
| 17 | 48 | 48 | 29.674 | 57 1/4 |
| 18 | 45 1/4 | 44 1/4 | 29.700 | 60 3/4 |
| 19 | 40 1/4 | 40 1/2 | 29.694 | 55 |
| 20 | 43 1/4 | 43 1/2 | 29.612 | 58 1/4 |
| 21 | 40 | 40 | 29.343 | 53 |
| 22 | 42 3/4 | 42 | 29.494 | 56 1/2 |
| 23 | 40 1/4 | 42 1/2 | 29.596 | 57 1/4 |
| 24 | 34 1/2 | 34 | 29.940 | 54 1/4 |
| 25 | 41 1/4 | 41 1/2 | 29.926 | 57 1/4 |
| 26 | 46 | 44 1/4 | 29.806 | 56 1/4 |
| 27 | 46 1/2 | 46 1/4 | 29.922 | 55 |
| 28 | | | | |
| 29 | 47 1/2 | 48 1/4 | 29.934 | 53 |
| 30 | 48 1/2 | 47 1/2 | 29.468 | 53 |
| 28 | 43 | 43 | 29.760 | 56 3/4 |

Morning Observations for December 1838.

| Day | Therm | R. | Mag | Mer | Bar | Atmos |
|-----|--------|--------|--------|--------|----------|--------|
| 1 | 55 3/4 | 48 1/2 | 56 3/4 | 44 3/4 | 29. 66 4 | 55 1/2 |
| 2 | 53 3/4 | 52 1/4 | 54 1/4 | 48 3/4 | 29. 58 6 | 54 1/2 |
| 3 | 49 | 48 1/4 | 52 1/4 | 46 1/4 | 24. 56 2 | 53 3/4 |
| 4 | 46 1/2 | 43 3/4 | 57 1/2 | 42 1/4 | 29. 41 6 | 52 |
| 5 | 44 1/4 | 43 3/4 | 58 1/4 | 37 | 30. 03 6 | 50 |
| 6 | 39 1/2 | 37 | 47 1/2 | 34 1/4 | 30. 40 4 | 48 1/4 |
| 7 | 49 3/4 | 40 3/4 | 46 1/4 | 37 | 30. 37 2 | 50 1/2 |
| 8 | 36 | 37 | 49 1/4 | 36 | 30. 57 6 | 49 1/2 |
| 9 | 34 1/2 | 34 3/4 | 44 | 33 1/4 | 30. 53 8 | 46 1/4 |
| 10 | 29 1/2 | 29 | 39 | 28 | 30. 43 2 | 43 |
| 11 | 44 1/4 | 42 1/4 | 42 1/4 | 28 1/2 | 30. 44 0 | 44 |
| 12 | 44 1/4 | 44 | 47 | 42 | 30. 46 0 | 48 1/4 |
| 13 | 46 1/2 | 44 1/2 | 48 | 43 | 30. 44 6 | 48 1/4 |
| 14 | 43 3/4 | 42 | 44 3/4 | 41 | 30. 52 6 | 47 1/2 |
| 15 | 43 3/4 | 43 1/4 | 46 1/4 | 42 | 30. 43 4 | 48 1/4 |
| 16 | 36 1/2 | 36 | 45 1/4 | 32 1/4 | 30. 44 8 | 46 |
| 17 | 39 1/2 | 38 | 38 | 32 3/4 | 30. 41 4 | 43 1/2 |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |
| 31 | | | | | | |
| 17 | 43 | 42 | 47 | 38 | 30. 23 9 | 44 |

Evening Observations for December 1838.

| Day | Therm | R. | Bar | Atmos |
|-----|--------|--------|----------|--------|
| 1 | 54 1/4 | 54 | 29. 44 0 | 54 1/2 |
| 2 | 45 3/4 | 47 3/4 | 29. 54 9 | 53 3/4 |
| 3 | 46 1/2 | 46 3/4 | 29. 56 8 | 53 1/2 |
| 4 | 40 | 41 | 29. 90 6 | 50 1/2 |
| 5 | 40 1/2 | 41 | 30. 24 8 | 49 1/2 |
| 6 | 48 1/2 | 46 3/4 | 30. 34 8 | 49 1/2 |
| 7 | 38 1/2 | 40 1/4 | 30. 52 6 | 49 1/4 |
| 8 | 36 1/2 | 38 | 30. 54 6 | 48 1/4 |
| 9 | 31 3/4 | 32 3/4 | 30. 48 2 | 44 1/2 |
| 10 | 36 1/2 | 35 1/4 | 30. 34 0 | 41 1/4 |
| 11 | 43 1/4 | 43 | 30. 44 0 | 45 1/2 |
| 12 | 43 3/4 | 43 1/2 | 30. 44 8 | 47 1/4 |
| 13 | 43 1/4 | 43 | 30. 44 6 | 47 1/4 |
| 14 | 44 1/4 | 44 | 30. 47 6 | 47 1/4 |
| 15 | 32 3/4 | 33 1/4 | 30. 41 8 | 43 1/2 |
| 16 | 35 | 34 3/4 | 30. 44 0 | 41 |
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| 31 | | | | |
| 16 | 41 1/4 | 41 1/2 | 30. 23 9 | 47 1/2 |

Morning Observations for January 1839

10th 1st The R. Macmillan Bar. Atmer

| 1 | | | | | | |
|----|--------|--------|--------|--------|---------|--------|
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| 12 | | | | | | |
| 13 | 50 3/4 | 49 1/4 | 57 3/4 | 26 | 30.260 | 49 3/4 |
| 14 | 48 | 47 3/4 | 52 | 46 1/2 | 30.132 | 50 1/2 |
| 15 | 37 3/4 | 37 3/4 | 50 1/2 | 37 | 30.116 | 47 1/2 |
| 16 | 36 1/2 | 36 1/2 | 42 1/4 | 33 3/4 | 30.176 | 48 1/4 |
| 17 | 37 1/2 | 32 1/4 | 42 | 28 1/4 | 30.228 | 50 1/4 |
| 18 | 25 1/4 | 26 1/4 | 36 1/2 | 26 | 30.372 | 41 1/2 |
| 19 | 48 1/2 | 48 | 48 | 26 | 29.722 | 47 1/2 |
| 20 | 42 3/4 | 40 1/4 | 49 1/2 | 36 | 30.216 | 47 1/2 |
| 21 | 57 3/4 | 50 1/4 | 50 1/4 | 40 1/2 | 29.890 | 49 3/4 |
| 22 | 34 1/4 | 34 1/4 | 37 1/2 | 33 3/4 | 30.300 | 50 |
| 23 | 34 1/4 | 32 3/4 | 38 1/4 | 31 1/4 | 30.416 | 44 1/2 |
| 24 | 31 1/4 | 30 3/4 | 37 3/4 | 28 | 30.432 | 45 |
| 25 | 46 1/2 | 44 1/4 | 44 1/4 | 30 | 30.1372 | 48 3/4 |
| 26 | 35 1/2 | 35 1/2 | 48 1/4 | 35 1/4 | 30.326 | 45 1/2 |
| 27 | 31 1/4 | 31 1/4 | 38 1/4 | 31 | 30.446 | 43 1/2 |
| 28 | 33 1/4 | 32 1/4 | 35 | 31 1/4 | 30.190 | 41 1/2 |
| 29 | 35 1/2 | 33 1/2 | 35 1/2 | 31 1/4 | 29.804 | 44 |
| 30 | 30 | 29 1/4 | 40 1/4 | 28 1/2 | 29.488 | 41 1/2 |
| 31 | 32 1/4 | 31 1/4 | 34 1/2 | 24 | 29.506 | 42 |
| 19 | 38 | 37 | 43 1/2 | 32 | 30-157 | 46 1/4 |

X^a

Evening Observations for January 1839

10th 1st Ther R. Bar. Atmer

| 1 | | | | | | |
|----|--------|--------|--------|--------|--------|--|
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| 11 | | | | | | |
| 12 | | | | | | |
| 13 | 50 3/4 | 50 1/4 | 30 | 220 | 51 1/2 | |
| 14 | 42 3/4 | 42 1/2 | 30 | .038 | 50 | |
| 15 | 35 | 36 1/2 | 30 | .292 | 53 | |
| 16 | 30 3/4 | 33 1/4 | 30 | .228 | 52 | |
| 17 | 26 | 28 1/4 | 30 | .302 | 43 1/2 | |
| 18 | 40 | 36 1/4 | 30 | .300 | 50 1/2 | |
| 19 | 38 | 38 1/4 | 30 | .112 | 55 | |
| 20 | 50 3/4 | 49 1/4 | 29 | .990 | 49 1/4 | |
| 21 | 48 | 48 1/4 | 29 | .942 | 58 3/4 | |
| 22 | 34 1/2 | 34 1/4 | 30 | .608 | 50 1/2 | |
| 23 | 30 | 30 1/4 | 30 | .758 | 50 | |
| 24 | 40 1/2 | 38 | 30 | .654 | 44 3/4 | |
| 25 | 38 1/2 | 39 | 30 | .212 | 47 | |
| 26 | 33 1/4 | 33 1/4 | 30 | .436 | 48 3/4 | |
| 27 | 31 1/4 | 32 1/4 | 30 | .334 | 41 1/2 | |
| 28 | 33 1/4 | 35 | 29 | .902 | 50 1/2 | |
| 29 | 38 | 38 | 29 | .374 | 43 1/2 | |
| 30 | 30 | 30 | 29 | .412 | 53 | |
| 31 | 32 1/4 | 32 | 29 | .902 | 52 1/2 | |
| 19 | 37 | 37 | 30-150 | 49 3/4 | | |

Results of Meteorological Observations
for Swansea deduced by John Scarkins
from observations taken by
The late Dr. Edwards

Mr. J. G. Gutch
& John Scarkins -

Lat $51^{\circ} 37.10'$ Long $3^{\circ} 55.30'$

1838

The observations for this and following years were
taken by the instruments now in use

I.S.

| Date | Direction of Wind in days | | | | | | | | Weather in days | | |
|-----------|---------------------------|----|---|----|----|----|----|----|-----------------|---------|-----|
| | N | NE | E | SE | S | SW | W | NW | Dry | Showery | Wet |
| 1838 | | | | | | | | | | | |
| January | 9 | 6 | 6 | 20 | 1 | 1 | 5 | 4 | 19 | 9 | 3 |
| February | 3 | 1 | 8 | 23 | 10 | 7 | 0 | 2 | 15 | 9 | 4 |
| March | 15 | 7 | 2 | 4 | 10 | 4 | 2 | 3 | 16 | 10 | 3 |
| April | 8 | 13 | 7 | 2 | 2 | 6 | 3 | 19 | 20 | 8 | 3 |
| May | 8 | 1 | 3 | 10 | 25 | 9 | 2 | 0 | 24 | 4 | 3 |
| June | 14 | 7 | 0 | 1 | 20 | 5 | 11 | 1 | 20 | 3 | 7 |
| July | 27 | 4 | 1 | 1 | 11 | 5 | 12 | 1 | 23 | 5 | 3 |
| August | 27 | 10 | 0 | 0 | 8 | 4 | 12 | 1 | 22 | 3 | 6 |
| September | 13 | 7 | 4 | 5 | 19 | 9 | 2 | 0 | 24 | 1 | 5 |
| October | 31 | 6 | 9 | 2 | 6 | 2 | 1 | 2 | 27 | 2 | 2 |
| November | 14 | 12 | 5 | 14 | 5 | 3 | 3 | 1 | 16 | 2 | 12 |
| December | 17 | 10 | 9 | 3 | 13 | 5 | 4 | 0 | 25 | 2 | 4 |

| Date | Barometer | | | Thermometer | | | | | | Date | Direction of Wind in days | | | | | | | Weather in days | | | |
|-----------|------------------------------|--|---------------------------|---------------------|-----------------------|---------------|--|---------------------------|----|-----------|---------------------------|----|---|----|---|----|---|-----------------|-----|---------|-----|
| | Mean height of Barometer. | highest on | lowest on | mean temp Day | mean temp Night | maximum on | minimum on | % of Obsr. true. | | | N | NE | E | SE | S | SW | W | NW | Dry | Showery | Wet |
| 1839 | | | | | | | | | | 1839 | | | | | | | | | | | |
| January | 29.87 29.73 | am 30.52 ²³ pm 29.06 | 7 th | am 47 pm | 40 | 53 | 13.21.22 ²² 30 th | 28 | 62 | January | 42 | 8 | 3 | 1 | 7 | 0 | 1 | 0 | 20 | 6 | 5 |
| February | 29.88 29.90 | am 30.40 ¹⁰⁻¹⁵ pm 29.43 | 7 th | am 52 pm | 37 | 55 | 28 th 1 st | 26 | 56 | February | 7 | 6 | 0 | 4 | 7 | 12 | 5 | 15 | 19 | 7 | 2 |
| March | 30.75 29.75 | am 30.16 ⁵ pm 29.28 ¹⁶ | am 29.28 ¹⁶ | am pm 48 | 39 | 60 | 14 7 th | 24 | 62 | March | 2 | 7 | 0 | 25 | 0 | 10 | 4 | 13 | 15 | 8 | 6 |
| April | 30.04 30.05 | am 30.53 ["] pm 29.42 ¹⁷ | pm 29.42 ¹⁷ | pm 55 | 40 | 67 | 26.27 ⁷ | 31 | 60 | April | 4 | 11 | 2 | 15 | 2 | 8 | 2 | 13 | 24 | 3 | 3 |
| May | 30.11 30.13 | am 30.28 ²⁰ pm 29.90 ¹⁵ | pm 29.90 ¹⁵ | am 63 | 47 | 74 | 30 16 | 30 | 62 | May | 1 | 14 | 0 | 1 | 0 | 2 | 0 | 0 | 25 | 5 | 1 |
| June | 29.83 29.79 | am 30.63 ¹ pm 29.23 ²² | am 29.23 ²² | pm 71 | 57 | 75 | 17.18.19 29 | 49 | 57 | June | 5 | 9 | 2 | 15 | 2 | 26 | 0 | 1 | 16 | 6 | 8 |
| July | 29.80 29.80 | am 30.29 ¹ pm 29.17 ³¹ | am pm 29.17 ³¹ | am 70 | 54 | 72 | 16 1 st | 46 | 62 | July | 3 | 4 | 0 | 7 | 1 | 34 | 6 | 7 | 13 | 7 | 9 |
| August | 29.91 29.73 | am 30.33 ⁵ pm 29.49 ¹⁶ | am 29.49 ¹⁶ | am 66 | 52 | 73 | 3 rd 20 th | 45 | 55 | August | 7 | 4 | 0 | 6 | 0 | 30 | 1 | 14 | 16 | 4 | 7 |
| September | 29.55 29.55 | am 30.06 ¹⁰ pm 28.88 ¹ | pm 28.88 ¹ | am 63 | 51 | 68 | 6 th 10 13.25.24 | 47 | 60 | September | 2 | 4 | 0 | 7 | 5 | 27 | 6 | 9 | 8 | 13 | 7 |
| October | 29.81 29.86 | am 30.35 ²⁶ pm 29.31 ⁴ | am 29.31 ⁴ | am 58 | 46 | 66 | 18 6.31 | 38 | 61 | October | 5 | 17 | 3 | 11 | 8 | 10 | 0 | 8 | 17 | 5 | 9 |
| November | 29.42 29.55 | am 30.14 ²³ pm 29.13 ¹¹ | pm 29.13 ¹¹ | am 50 | 42 | 57 | 18 28 th | 31 | 60 | November | 9 | 3 | 4 | 2 | 4 | 8 | 2 | 8 | 9 | 17 | 4 |
| December | 29.57 29.72 | am 30.18 ²⁹ pm 29.07 ²⁰ | pm 29.07 ²⁰ | am 44 | 34 | 53 | 21 29 th | 29 | 62 | December | 4 | 1 | 1 | 13 | 5 | 7 | 3 | 2 | 17 | 5 | 9 |

Druce, Centre, C

ROYAL METEOROLOGICAL SOCIETY
49, Cromwell Road, London, S.W.7

METEOROLOGICAL REGISTER

kept at

WALKERINGHAM, NOTTS.

by

REV.J.K.MILLER

JULY 1826 - MAY 1855

MET/2/1/2/3/439

1838 BAROMETER.

Thermometer.

Remarks on the weather for

| D. of Mo. | 7 AM | 2 PM | 9 PM | 7 am | 2 pm | 9 pm |
|-----------|--------|-------|-------|------|------|------|
| Sept. 17 | 29.99 | 30.03 | 30.06 | 60 | 60 | 55 |
| 18 | 30.03 | 29.99 | 29.94 | 53 | 59 | 53 |
| 19 | 29.92 | 29.82 | 29.78 | 53 | 62 | 56 |
| 20 | 29.69 | 29.70 | 29.73 | 55 | 62 | 54 |
| 21 | 29.73 | 29.74 | 29.82 | 46 | 59 | 49 |
| 22 | 29.84 | 29.82 | 29.82 | 42 | 60 | 54 |
| 23 | 29.75 | 29.73 | 29.74 | 56 | 66 | 57 |
| 24 | 29.81 | 29.80 | 29.76 | 49 | 54 | 51 |
| 25 | 29.69 | 29.72 | 29.79 | 53 | 58 | 54 |
| 26 | 29.85 | 29.89 | 29.92 | 53 | 60 | 56 |
| 27 | 29.89 | 29.80 | 29.79 | 54 | 58 | 52 |
| 28 | 29.89 | 29.92 | 29.96 | 48 | 60 | 54 |
| 29 | 29.48 | 29.97 | 29.99 | 48 | 61 | 56 |
| 30 | 30.09 | 30.12 | 30.19 | 55 | 63 | 55 |
| Oct. 1 | 30.27 | 30.27 | 30.29 | 55 | 56 | 54 |
| 2 | 30.34 | 30.36 | 30.40 | 54 | 60 | 53 |
| 3 | 30.43 | 30.42 | 30.42 | 53 | 58 | 48 |
| 4 | 30.38 | 30.34 | 30.31 | 49 | 55 | 46 |
| 5 | 30.30 | 30.30 | 30.33 | 40 | 55 | 47 |
| 6 | 30.32 | 30.32 | 30.30 | 44 | 55 | 53 |
| 7 | 30.32 | 30.29 | 30.26 | 51 | 56 | 52 |
| 8 | 30.27 | 30.30 | 48 | 52 | 52 | |
| 9 | 30.29 | 30.25 | 30.20 | 51 | 52 | 52 |
| 10 | 30.12 | 30.04 | 30.01 | 52 | 56 | 53 |
| 11 | 29.89 | 29.63 | 29.40 | 53 | 56 | 50 |
| 12 | 29.47 | 29.50 | 29.58 | 41 | 48 | 36 |
| 13 | 29.66 | 29.71 | 29.81 | 32 | 43 | 32 |
| 14 | 29.71 | 29.42 | 29.29 | 41 | 50 | 53 |
| 15 | 29.35 | 29.39 | 29.39 | 52 | 55 | 58 |
| 16 | 29.37 | 29.29 | 29.11 | 56 | 61 | 57 |
| 17 | 29.08 | 29.16 | 29.33 | 51 | 51 | 45 |
| 18 | 29.80* | 29.76 | 29.51 | 41 | 50 | 54 |
| 19 | 29.70 | 29. | 29.88 | 50 | 55 | |
| 20 | 29.82 | 29.92 | 30.04 | 57 | 60 | 53 |
| 21 | 30.09 | 30.09 | 30.08 | 55 | 61 | 58 |
| 22 | 30.00 | 29.93 | 29.91 | 57 | 61 | 59 |
| 23 | 29.83 | 29.73 | 29.62 | 56 | 60 | 56 |
| 24 | 29.87 | 29.65 | 29.79 | 54 | 58 | 54 |
| 25 | 29.95 | 29.90 | 29.71 | 50 | 56 | 54 |

1838 BAROMETER.

Thermometers

Remarks on the weather for

| D. of Mo. | 7 AM | 2 PM | 9 PM | 7 am | 2 pm | 9 pm |
|-----------|-------|-------|-------|------|------|------|
| Oct. 26 | 29.53 | 29.66 | 29.76 | 56 | 56 | 47 |
| 27 | 29.70 | 29.49 | 29.37 | 43 | 53 | 54 |
| 28 | 29.43 | 29.48 | 29.24 | 46 | 52 | 47 |
| 29 | 28.83 | 29.25 | 29.43 | 42 | 49 | 44 |
| 30 | 29. | 29.53 | 29.62 | 39 | 49 | 42 |
| 31 | 29.70 | 29.69 | 29.58 | 39 | 48 | 42 |
| Nov. 1 | 29.29 | 29.20 | 29.16 | 44 | 48 | 40 |
| 2 | 29.14 | 29.06 | 29.22 | 41 | 46 | 41 |
| 3 | 29.44 | 29.22 | 28.96 | 36 | 43 | 42 |
| 4 | 28.75 | 28.75 | 28.83 | 45 | 49 | 45 |
| 5 | 29.02 | 29.17 | 29.36 | 46 | 48 | 45 |
| 6 | 29.52 | 29.59 | 29.57 | 37 | 56 | 42 |
| 7 | 29.26 | 29.19 | 29.15 | 51 | 57 | 51 |
| 8 | 29.24 | 29.29 | 29.31 | 47 | 57 | 44 |
| 9 | 29.25 | 29.25 | 29.32 | 42 | 48 | 41 |
| 10 | 29.55 | 29.61 | 29.65 | 44 | 44 | 38 |
| 11 | 29.56 | 29.59 | 29.79 | 31 | 40 | 34 |
| 12 | 30.04 | 30.15 | 30.37 | 34 | 42 | 34 |
| 13 | 30.34 | 30.31 | 30.30 | 30 | 40 | 33 |
| 14 | 30.22 | 30.14 | 30.06 | 27 | 32 | 30 |
| 15 | 29.88 | 29.78 | 29.69 | 35 | 39 | 39 |
| 16 | 29.59 | 29.57 | 29.58 | 39 | 44 | 42 |
| 17 | 29.61 | 29.64 | 29.66 | 28 | 46 | 43 |
| 18 | 29.69 | 29.71 | 29.71 | 41 | 41 | |
| 19 | 29.68 | 29.61 | 29.59 | 40 | 40 | 38 |
| 20 | 29.66 | 29.65 | 29.63 | 38 | 40 | 38 |
| 21 | 29.50 | 29.42 | 29.38 | 39 | 41 | 39 |
| 22 | 29.30 | 29.27 | 29.33 | 41 | 42 | 44 |
| 23 | 29.50 | | 29.54 | 43 | | 39 |
| 24 | 29.61 | 29.60 | 29.77 | 39 | 40 | 39 |
| 25 | 29.93 | 29.95 | 29.90 | 34 | 40 | 33 |
| 26 | 29.84 | 29.84 | 29.80 | 33 | 35 | 29 |
| 27 | 29.50 | 29.30 | 29.19 | 32 | 35 | 36 |
| 28 | 28.98 | 28.51 | 28.41 | 40 | 46 | 48 |
| 29 | 28.33 | 28.33 | 28.44 | 48 | 50 | 48 |
| 30 | 28.59 | 28.78 | 29.00 | 49 | 52 | 44 |
| Dec. 1 | 29.26 | 29.31 | 29.08 | 48 | 49 | 52 |
| 2 | 29.17 | 29.30 | 29.20 | 48 | 52 | 47 |
| 3 | 29.20 | 29.30 | 29.20 | 44 | 49 | 44 |

| 1838 | BAROMETER. | Thermometer. | Remarks on the weather. | 1839 | BAROMETER. | Thermometer. | Remarks on the weather. |
|-----------|------------|--------------|-------------------------|------|------------|--------------|---|
| D. of Mo. | 7AM | 2PM | 9PM | 7AM | 2PM | 9PM | |
| Dec. 4 | 29.33 | 29.41 | 29.47 | 42 | 46 | 41 | Beautiful day, mostly bright. |
| 5 | 29.64 | 29.77 | 29.94 | 43 | 47 | 42 | B°. B°. |
| 6 | 30.09 | 30.10 | 30.02 | 36 | 44 | 43 | Slight frost. Beautiful bright day - but rain at night. |
| 7 | 30.09 | 30. | 30.20 | 45 | 38 | | Fine, partly beautiful, mild & pleasant, but dark at first. |
| 8 | 30.26 | 30.29 | 30.31 | 35 | 42 | 37 | Frost, soon going: fine, cold day. |
| 9 | 30.31 | 30.26 | 30.22 | 34 | 41 | 35 | D°. D° (not so soon) d°. d°. d°. |
| 10 | 30.12 | 30.03 | 30.05 | 36 | 42 | 43 | D°. D°. D°. (not so bright). |
| 11 | 30.17 | 30.21 | 30.23 | 39 | 42 | 35 | Bright & beautiful. A marble sky. |
| 12 | 30.16 | 30.15 | 30.15 | 41 | 44 | 44 | Very fine. |
| 13 | 30.15 | 30.15 | 30.22 | 41 | 47 | 42 | D°. |
| 14 | 30.29 | 30.32 | 30.32 | 44 | 45 | 37 | Fine, but somewhat dull. |
| 15 | 30.27 | 30.24 | 30.23 | 35 | 38 | 36 | Fine, with fog in the aft: evening. |
| 16 | 30.24 | 30.25 | 30.27 | 29 | 32 | 27 | A fine. Bright forenoon, becoming foggy after, & very cold. |
| 17 | 30.27 | 30.25 | 30.23 | 31 | 35 | 34 | Rainie, continuing. |
| 18 | 30.20 | 30.16 | 30.16 | 33 | 33 | 27 | D°. D°. |
| 19 | 30.10 | 30.05 | 30.01 | 32 | 34 | 29 | D°. D°. |
| 20 | 29.97 | 30.04 | 30.15 | 37 | 40 | 38 | Rain, at first - Dull, raw day, but rather improving. |
| 21 | 30.24 | 30.23 | 30.10 | 35 | 36 | 35 | Fog. Dull, dark & damp after, but no rain. |
| 22 | 29.95 | 29.92 | 29.82 | 35 | 38 | 37 | Dull - with some little rain once or so. |
| 23 | 29.45 | 29.34 | 29.33 | 42 | 44 | 41 | Rain in n. & rainy morn. but not heavily. Wind, increasing. |
| 24 | 29.32 | 29.33 | 29.39 | 40 | 41 | 39 | Dull, dark & damp. |
| 25 | 29.57 | 29.72 | 29.81 | 33 | 36 | 34 | Bright, fine & pleasant. Frost, beginning ^{snow} after dawn. ^{after dash} Hail. |
| 26 | 29.73 | 29.4 | 29.33 | 29 | 35 | 40 | Sharp white frost. Snow after. Rain in even. |
| 27 | 29.47 | 29.59 | 29.79 | 36 | 42 | 35 | Slight frost. Fine, bright, pleasant day, thro' out. |
| 28 | 30.06 | 30.14 | 30.15 | 35 | 39 | 35 | D°. (whiter) B°. B°. D°. |
| 29 | 29.97 | 29.91 | 30.00 | 40 | 45 | 45 | Rain at first, clearing gradually to a fine day, & bright partly with wind. |
| 30 | 29.88 | 29.75 | 30.00 | 48 | 52 | 43 | Wild, high wind: some rain - at times tolerably fine. |
| 31 | 30.24 | 29.33 | 30.37 | 37 | 42 | 37 | Fine, bright, & cold, with some wind. |
| Jan. 1 | 30.04 | 29.92 | 29.79 | 43 | 49 | 48 | B°. D° & milder. Beautiful day. High wind at n. |
| 2 | 29.84 | 29.89 | 29.90 | 41 | 42 | 41 | Fine, mostly, with a shower or two wind. |
| 3 | 29.74 | 29.62 | 29.37 | 44 | 49 | 48 | Very fine & pleasant, with wind. |
| 4 | 29.32 | 29.32 | 29.46 | 42 | 39 | 36 | Fine bright pleasant day, varied with showers & dashes of snow. |
| 5 | 29.16 | 29.45 | 29.34 | 33 | 38 | 34 | Frost. Fine, bright, cold day. |
| 6 | 29.52 | 29.43 | 29.04 | 31 | 34 | 36 | White frost sharpish, continuing till snow, with Eastly wind, came. |
| 7 | 28.51 | 28.72 | 28.92 | 43 | 46 | 40 | Wind in n. fearful hurricanes, & thro' the day falling rather ^{the even.} |
| 8 | 29.19 | 29.27 | 29.33 | 32 | 35 | 29 | Snow in n. ground white. Much snow after: deepish for the time of falling. |
| 9 | 29.51 | 29.71 | 29.95 | 26 | 29 | 20 | Hard frost: snow remaining. Fine bright day. Very cold. |
| 10 | 30.02 | 29.99 | 29.96 | 27 | 34 | 37 | D°. continuing much of the day - then gradually thawing, rapidly all at |
| 11 | 29.81 | 29.77 | 29.80 | 45 | 50 | 50 | Show gone. Rainy, with wind, at first clearing up soon & becoming fine. |
| Jan. 12 | 30.01 | 30.03 | 30.03 | 42 | 46 | 42 | Fine, mild, pleasant day. Thro' out. |
| 13 | 29.70 | 29.67 | 29.74 | 50 | 54 | 45 | Fine, with high but soft wind - pleasant temperature & clear sky by day. |
| 14 | 29.73 | 29.59 | 29.50 | 43 | 46 | 39 | Fine, mostly, but less pleasant, till past 2. Then scuds of rain. Wind at n. |
| 15 | 29.54 | 29.65 | 29.76 | 38 | 41 | 35 | High wind. Fine, bright, & cold day. Thro' out. |
| 16 | 29.79 | 29.80 | 29.80 | 31 | 36 | 31 | Frost, continuing. Fine, bright & cold all day. Excellent walking. |
| 17 | 29.90 | 29.95 | 30.00 | 29 | 37 | 35 | D°. D°. D°. D°. D°. D°. |
| 18 | 30.04 | 29.99 | 29.84 | 27 | 37 | 34 | D°. D°. All thru' till night. Then snow, sleet, & rain. |
| 19 | 29.29 | 29.37 | 29.60 | 42 | 39 | 37 | Rainy, improving after, to a fine latter half. Frosty at n. Aur. Bor. line. |
| 20 | 29.73 | 29.79 | 29.61 | 43 | 44 | 42 | Fine, but not bright. Rain at night. |
| 21 | 29.56 | 29.66 | 29.79 | 40 | 43 | 35 | Fine. |
| 22 | 30.02 | 30.13 | 30.30 | 32 | 37 | 36 | Variable, from hot at first - to fine, rank, snow (slight). Fine again. |
| 23 | 30.42 | 30.43 | 30.41 | 35 | 37 | 34 | Frost, fine, bright day, cold. |
| 24 | 30.33 | 30.32 | 30.23 | 36 | 46 | 42 | Fine, & pleasant; thro' out. |
| 25 | 29.92 | 29.90 | 29.96 | 46 | 45 | 38 | D°. D°. with a shower or two, hail mostly, but slight. |
| 26 | 30.13 | 30.23 | 30.31 | 34 | 36 | 34 | Fights off fine, snow, or hail, varied with finer intervals, thro' the day. |
| 27 | 30.35 | | 30.18 | 29 | 35 | 34 | Clouds over a snow covering, superficially. Tolerably fine day. |
| 28 | 29.96 | 29.76 | 29.54 | 32 | 35 | 33 | Frost, scarcely yielding. Snow at night. Middle, small dashes bright. |
| 29 | 29.47 | 29.17 | 29.06 | 28 | 37 | 36 | More snow in n. Frost turning to snow. Snow renewed at n. ^{+ 25 at 10 1/2} |
| 30 | 29.00 | 28.96 | 28.96 | 23 | 32 | 28 | Hard frost upon the remains snow. High wind. More snow in soon. |
| 31 | 29.07 | 29.32 | 29.67 | 30 | 33 | 31 | Repeated snow storms, with high wind. Fine, later. |
| Feb. 1 | 29.93 | 29.93 | 29.93 | 26 | 36 | 30 | Steady cold, without fall from the skies & scarcely any thaw. |
| 2 | 29.93 | 29.92 | 29.88 | 30 | 38 | 36 | Not very diff. from yesterday. Gradual thaw in the evening. Wild geese. ^{N.E.} |
| 3 | 29.70 | 29.70 | 29.69 | 37 | 42 | 38 | Thaw accelerated. Thro' the day, wch was fine for a thaw. |
| 4 | 29.67 | 29.59 | 29.54 | 33 | 41 | 43 | White frost, soon thawing. Fine, but somewhat dull day. Rainy in ev. (bright) |
| 5 | 29.87 | 29.95 | 29.90 | 40 | 41 | 40 | Dull & calm - wch rain at n. |
| 6 | 30.00 | 30.02 | 29.96 | 40 | 42 | 41 | Much like yesterday, but finer. Murky in part of the ev. |
| 7 | 30.04 | 30.05 | 29.97 | 45 | 52 | 49 | Mild & spring-like, but rather damp. Skylark. Robin. Tit. (gr.). Missel Thrush. |
| 8 | 30.14 | 30.04 | 29.95 | 43 | 52 | 52 | Fine early: then foggy & murky: then fair & cloudy, wch winds. Thrush. |
| 9 | 30.04 | 30.02 | 30.08 | 53 | 57 | 48 | Wild & fair. Thrush very vocal. |
| 10 | 30.29 | 30.33 | 30.32 | 39 | 45 | 39 | Slight frost early. A bright, beautiful, almost double day, thro' out. |
| 11 | 30.24 | 30.18 | 30.13 | 37 | 44 | 41 | A day of the same general character as yesterday, but not equal to it. |
| 12 | 30.06 | 30.01 | 30.05 | 44 | 48 | 44 | Dull, moist forenoon, followed by rain, but not much. |
| 13 | 30.24 | 30.20 | 30.06 | 38 | 46 | 42 | Fine, & bright (mostly) wch some wind, at the aft. |
| 14 | 29.58 | 29.66 | 29.80 | 48 | 50 | 41 | Rain in n. Fine on the whole, but wildish wch high wind. |
| 15 | 29.84 | 29.80 | 29.64 | 39 | 46 | 41 | Fine, bright, windy, cold. |
| * 16 | 29.80 | 29.82 | 29.82 | 41 | 43 | 36 | D°. D°. L°. L°. (after rain last n.) (A scud of snow in the aft ⁴) |
| 17 | 29.29 | 29.27 | 29.27 | 33 | 37 | 32 | Frost. Fine, bright 1/2 half. Then snow storms, clearing & fair again. |
| 18 | 29.36 | 29.50 | 29.59 | 31 | 37 | 28 | More snow in n. Continued in m. Afterw. fair & bright. |
| 19 | 29.57 | 29.45 | 29.45 | 23 | 35 | 30 | Scor. frost. Fine. Thaw afterwards, arrested by frost at n. |
| * | 29.30 | 29.32 | 29.32 | | | | |

November

1838

| DATE. | Cold of the NIGHT. | Thermometer at Nine A. M. | RAIN GUAGE. | Heat of the DAY. | Thermometer at Nine P. M. | BAROMETER. | WIND. | OBSERVATIONS. |
|-------|-----------------------|------------------------------|----------------|----------------------------|------------------------------|------------|-------|---------------------------------|
| 1 | 41. | 44. 0. 00 | 52. | 48. | 29. 0 | S. W. | | Cloudy Morn & Showery Day |
| 2 | 38. | 42. 0. 23 | 49. | 38. | 28. 8 $\frac{1}{2}$ | N. W. | | Ditto - Ditto - Ditto - Ditto |
| 3 | 29. | 36. \sim 41. | 48. | 42. | 29. 0 | N. W. | | Ditto - Ditto - Dull Day |
| 4 | 41. | 47. \sim 64 | 48. | 43. | 28. 4 $\frac{1}{2}$ | W. E. | | Dull Cloudy Morn & Drizzly |
| 5 | 42. | 46. \sim 71 | 50. | 45. \sim 7 $\frac{1}{2}$ | W. W. | | | Cloudy Morn & Cloudy Day |
| 6 | 34. | 34. \sim 71. | 50. | 42. \sim 25 | N. W. | | | Clear Morn - Frosty - Clear Day |
| 7 | 41. | 52. 1. 07 | 55. | 47. 28. 9 $\frac{1}{2}$ | S. | | | Cloudy Morn - Cloudy Day |
| 8 | 44. | 47. 1. 11 | 51 | 42. \sim 9 $\frac{1}{2}$ | N. W. | | | Clear Morn - Clear Day |
| 9 | 38. | 42. 1. 14 | 52. | 40. \sim 9 $\frac{1}{2}$ | W. E. | | | Dull Foggy Morn - Dull Day |
| 10 | 37. | 44. 1. 14 | 46. | 34. \sim 25 | N. W. | | | Cloudy Morn - Showery Day |
| 11 | 28. | 31. 1. 23. | 40 | 33. \sim 2. | N. | | | Clear Frosty Morn & Clear Day |
| 12 | 26. | 34. 1. 23 | 43. | 30. \sim 8 | N. E. | | | Ditto - Ditto - Ditto - Ditto |
| 13 | 24. | 30. 1. 23 | 43. | 29. 30. 0 $\frac{1}{2}$ | N. E. | | | Ditto - Ditto - Ditto - Ditto |
| 14 | 23. | 27. 1. 23 | 38. | 32. 29. 9 | N. W. | | | Ditto - Ditto - Dull Day |
| 15 | 32. | 36. 1. 23 | 40. | 38. \sim 5 $\frac{1}{2}$ | N. W. | | | Dull Foggy Morn & Dull Day |
| 16 | 31. | 38. 1. 23 | 46. | 42. \sim 2 $\frac{1}{2}$ | N. W. | | | Cloudy Morn - Cloudy Day |
| 17 | 34. | 40. 1. 23 | 48. | 42. \sim 3 | W. E. | | | Clear Morn - Ditto - Ditto |
| 18 | 38. | 39. 1. 28 | 41. | 39. \sim 4 | N. E. | | | Drusky Morn - Drusky Day |
| 19 | 39. | 40. 1. 42 | 43. | 36. \sim 3 $\frac{1}{2}$ | N. E. | | | Cloudy Morn - Cloudy Day |
| 20 | 36. | 38. 1. 42 | 40. | 37. \sim 3 $\frac{1}{2}$ | N. E. | | | Ditto - Ditto - Ditto - Ditto |

November

1838

| DATE. | Cold of the NIGHT. | Thermometer at Nine A. M. | RAIN GUAGE. | Heat of the DAY. | Thermometer at Nine P. M. | BAROMETER. | WIND. | OBSERVATIONS. |
|-------|-----------------------|------------------------------|----------------|---------------------|------------------------------|---------------------|-------|---|
| 21 | 35 $\frac{1}{2}$ | 37. $\frac{1}{2}$ | 1. 42 | 40 $\frac{1}{2}$ | 38 $\frac{1}{2}$ | 29. 1 $\frac{1}{2}$ | E. | Dull Cloudy Morn - Dull Day |
| 22 | 37. | 40. | 1. 49 | 44. | 44. | 28. 9 $\frac{1}{2}$ | N. E. | Rainy Morn - Rainy Day |
| 23 | 40. | 42. | 1. 63 | 45. | 37. | 29. 1 $\frac{1}{2}$ | N. E. | Dull drizzly Morn - Cloudy Day |
| 24 | 34. | 37. | 1. 65 | 44. | 35. | ~ 3 | N. E. | Dull Cloudy Morn - Ditto - Day |
| 25 | 28. | 30. | 1. 65 | 39. | 30. | ~ 6 | N. E. | Clear Frosty Morn - Cloudy Day |
| 26 | 26. | 30. | 1. 65 | 35. | 24. | ~ 5 | N. E. | Cloudy Morn Frosty - Cloudy Day |
| 27 | 22. | 28. | 1. 65 | 34. | 34. | ~ 12 | S. E. | Ditto - Ditto - Hail show |
| 28 | 28. | 38. | 1. 92 | 47. | 46. | 28. 6 $\frac{1}{2}$ | S. E. | Drizzly Morn - Foggy - Rainy Day |
| 29 | 44. | 47. | 3. 01 | 51 | 47. | ~ 1 | N. W. | ^{Bustard} Cloudy Morn - Cloudy Day |
| 30 | 45. | 49. | 3. 04 | 52. | 44. | ~ 3 | N. W. | Showery Morn - Cloudy Day |
| 31 | | | | | | | | |

* 27th Hail & Sleet in the night - Rain in the morning -

* 28th Barometer at 9 P.M. 28. 1 $\frac{1}{2}$

15 Rainy days

December

1838

| DATE. | Cold of the NIGHT. | Thermometer at Nine A. M. | RAIN GUAGE. | Heat of the DAY. | Thermometer at Nine P. M. | BAROMETER, | WIND, | OBSERVATIONS. |
|-------|-----------------------|------------------------------|----------------|---------------------|------------------------------|------------|-------|------------------------------------|
| 1 | 42° | 48° | 0" 00 | 52° | 52° | 28.92 | S. E. | Cloudy Morn - Cloudy Day |
| 2 | 43° | 47. | 0" 14 | 50. | 45. | " 82 | S. W. | Clear Morn - Ditto - Ditto |
| 3 | 40. | 43. | " 15 | 51. | 40. | " 9 | S. W. | Cloudy morn - |
| 4 | 38. | 44. | " 23 | 47. | 38. | 29" 02 | N. | Clear Morn - Showery Day |
| 5 | 37. | 43 | " 23 | 47. | 38. | " 4 | N. W. | Ditto - Ditto - Ditto - Ditto |
| 6 | 30. | 32. | " 23 | 42. | 42. | " 8 | N. W. | Clear Frosty Morn - Clear Day |
| 7 | 41 | 43. | " 23 | 46. | 32. | " 84 | S. E. | Dull Cloudy Morn - Cloudy Day |
| 8 | 30. | 34. | " 23 | 44 | 36 | 30" 0 | N. W. | Clear Morn - Ditto - Ditto |
| 9 | 28. | 29. | " 23 | 36. | 28. | " 0 | N. S. | Ditto - Ditto - Frosty - Clear Day |
| 10 | 26. | 34. | " 23 | 42 | 40 | 29" 8 | S. W. | Cloudy Morn - Cloudy Day |
| 11 | 35. | 37. | " 23 | 43. | 32. | " 9 | N. E. | Ditto - Ditto - Ditto - Ditto |
| 12 | 30. | 39. | " 23 | 44. | 42. | " 9 | S. W. | Cloudy Morn - Ditto - Ditto |
| 13 | 38. | 40. | " 23 | 46. | 41. | " 82 | S. W. | Ditto - Ditto - Ditto - Ditto |
| 14 | 33. | 39. | " 23 | 44 | 38. | 30" 0 | S. W. | Dull Morn - Ditto - Ditto |
| 15 | 32. | 33. | " 23 | 40 | 36. | 29" 92 | N. S. | Dull Foggy Morn - Foggy Day |
| 16 | 26. | 27. | " 23 | 36. | 24. | " 92 | S. E. | Clear Frosty Morn - Clear Day |
| 17 | 22. | 32. | " 23 | 35. | 33. | " 9 | N. E. | Dull Morn - Dull Day |
| 18 | 31. | 33. | " 23 | 35. | 24 | " 9 | S. W. | Ditto - Ditto - Ditto - Do |
| 19 | 23. | 32. | " 23 | 34 | 28. | " 8 | S. W. | Ditto - Ditto - Ditto - Ditto |
| 20 | 28. | 38. | " 23 | 42. | 37. | " 7 | S. W. | Drippy Morn - Dull Drippy |

December 1838

| DATE. | Cold of the NIGHT. | Thermometer at Nine A. M. | RAIN GUAGE. | Heat of the DAY. | Thermometer at Nine P. M. | BAROMETER, | WIND, | OBSERVATIONS. |
|-------|-----------------------|------------------------------|----------------|---------------------|------------------------------|------------|-------|---------------------------------|
| 21 | 38° | 34° | " 23 | 37° | 35° | 30" 0 | S. E. | Dull Foggy Morn - Dull Day |
| 22 | 34. | 35. | " 31 | 41. | 36. | 29" 62 | S. E. | Drippy Morn - Ditto - Do |
| 23 | 36. | 42. | " 42 | 46. | 42 | " 1 | S. E. | Rainy Morn - Cloudy Day |
| 24 | 40. | 41. | " 43 | 46 | 38 | 28" 92 | S. | Drippy Morn - Drippy Day |
| 25 | 30. | 31. | " 47 | 38. | 32. | 29" 3 | S. | Clear Frosty Morn - Clear Day - |
| 26 | 28. | 30. | " 47 | 40. | 40. | " 4 | S. W. | Cloudy Morn - Snowy Day |
| 27 | 31. | 35. | " 63 | 42. | 36. | " 2 | N. W. | Clear Frosty Morn - Clear Day |
| 28 | 30. | 34. | " 63 | 40. | 26. | " 72 | N. W. | Ditto - Ditto - Ditto - Ditto |
| 29 | 26. | 37. | " 63 | 44 | 42 | " 62 | S. W. | Cloudy Morn - Cloudy Day |
| 30 | 40 | 47. | " 63 | 52. | 40. | " 52 | S. W. | Ditto - Ditto - Ditto - Ditto |
| 31 | 33. | 36. | " 65 | 44 | 37. | 30" 0 | N. W. | Clear Morn - Clear Day |

Rain fallen in 1838
inches

| | |
|-------|--------|
| Jan | 0" 85 |
| Feb | 2" 25 |
| March | 1" 90 |
| April | 1" 93 |
| May | 2" 74 |
| June | 2" 65 |
| July | 1" 55 |
| Augst | 2" 39 |
| Sept | 2" 54 |
| Oct | 1" 40 |
| Nov | 3" 04 |
| Dec | 0" 65 |
| | 23" 89 |

9 Rainy days

January (1839)

| DATE. | COLD OF THE NIGHT. | Thermometer at Nine A. M. | RAIN GUAGE. | HEAT OF THE DAY. | Thermometer at Nine P. M. | BAROMETER. | WIND. | OBSERVATIONS. |
|-------|--------------------|---------------------------|-------------|------------------|---------------------------|------------|-----------|--|
| 1 | 37° | 42° | 0.00 | 48° | 44° | 29.75 | N.W. B.S. | Cloudy Morn Dusky & Mild Day windy night with sun |
| 2 | 36. | 38. | 0.01 | 42. | 37. | — 5 3/4 | N.W. | Ditto Moistous night cloudy Day |
| 3 | 35. | 40. | — 01 | 49. | 46. | — 11 1/2 | S.W. | Cloudy Morn — Ditto a little sun |
| 4 | 36. | 37. | — 01 | 42. | 32. | — 0 | S.W. | Clear Morn — Cloudy Day Snow shower |
| 5 | 29. | 30. | — 01 | 37. | 28 | — 11 1/2 | S.W. | Frosty Ditto — Ditto Ditto — Ditto |
| 6 | 25. | 27. | — 01 | 40. | 37. | — 2 | S.W. | Cloudy Morn — Snow Showers |
| x 7 | 36. | 38. | — 10 | 39. | 35 | 28. 3 | N.W. B.S. | Ditto Cloudy Day with sun |
| x 8 | 27. | 28. | — 10 | 37. | 25. | — 11 1/2 | N.W. | Clear Morn — Snow Showers all day |
| y 9 | 21. | 23. | — 17 | 29. | 15. | 29. 2 1/2 | N.W. | Ditto Ditto Clear Day with sun |
| 10 | 14. | 22. | — 17 | 37 | 35 | — 11 1/2 | S.E. | Ditto Ditto Cloudy Day with sun |
| 11 | 35. | 46. | — 31 | 52. | 47 | — 8 1/2 | S.W. | Cloudy Morn. Mild — Cloudy Day |
| 12 | 36. | 38. | — 31 | 48. | 37. | — 7 1/2 | N.W. | Ditto Ditto Ditto Ditto |
| 13 | 37. | 48. | — 31 | 54. | 40 | — 11 1/2 | S.W. | very mild Ditto Ditto Ditto Ditto |
| 14 | 38. | 39 | — 31 | 42. | 35 | — 11 1/2 | N.W. B.S. | Ditto Ditto Ditto Ditto |
| 15 | 30. | 33. | — 38. | 40. | 31. | — 3 | N.W. B.S. | Ditto Snow Showers Cloudy Day with sun |
| 16 | 24. | 29. | — 38 | 36. | 26. | — 5 | N.W. | Clear Frosty Morn — Ditto with sun |
| 17 | 23. | 27. | — 38. | 35 | 29 | — 6 | N.W. B.S. | Ditto Ditto Ditto |
| 18 | 20. | 23 | — 38 | 33. | 30. | — 8 | N.W. | in Due Ditto Ditto |
| 19 | 30. | 40 | — 43 | 44. | 31 | 28. 9 1/2 | S.W. | Rainy Morn — Stlear after noon |
| 20 | 31. | 37. | — 55 | 42 | 38. | 29. 5 | S.W. | Showey Morn — Cloudy Day |

6th a little snow in the night after
7th great Hurricane ^{in the morning} broke some Panes of Glass in Athos' S.
Barometer fallen nearly an inch

Januarj 1839.

8th 2 inches of snow fallen in the night —
9th 2½ inches of Snow Ditto — Ditto —
29th 1 inch of — Ditto — Ditto — Ditto
Gathered Madras Citon in Bangalore. Girth round the
eye & stalk. 26 inches - round the middle 25½ inches
weight 6 lb. 7 oz
30 — Severe frost —