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LVIII. *Meteorological Register kept at Funchal, in Madeira, in the Year 1826; with some prefatory Observations on the Climate of that Island, &c. By C. HEINEKEN, M.D.**

FUNCHAL forms the area to a natural amphitheatre on the south side of the island of Madeira: it is open to the sea towards the south, and shut in on the north by mountains rising to the height of 5000 feet, and gradually declining east and west.

The following Journal is, I am aware, imperfect; but when I plead continued ill-health on the one hand, and renounce all scientific pretensions on the other, I trust that it will be received with every allowance. Mr. Kirwan's observations on the climate of Madeira, I have never seen. Those published by Dr. Gourlay, twenty-five years ago, were made by the late Mr. James Murdoch, at a place called the *Valle*, about 400 feet above the level of the sea, and do not therefore apply to the city of Funchal: besides, they are given only in monthly maxima, minima, and means; and we are left totally in the dark as to the *mode* by which these different results were obtained. Mr. Bowdich in his "History of Madeira," did not pretend to enter into this subject in detail; and I am not conscious that any other person has attempted it. These, and the intermediate situation of Madeira, which makes it an important connecting link between the tropical and northern climates, are the reasons which have induced me to obtrude myself upon the public, as one who has incurred the sarcasm of the amiable Johnson, by "registering the changes of the wind, in order to die fully convinced that the wind is changeable!"

The periods of the day at which the observations have been made, are not those which I should have selected, had a free choice been offered me; but all others were precluded, either by the state of my health, or the nature of my avocations. I selected therefore the least eligible, because they were likely to prove the least interrupted.—As it regards the barometer, the results have not, I think, been greatly influenced by this circumstance; its oscillations during the four-and-twenty hours being comparatively, and upon an average, so trifling: but the deductions from the hygrometer are I fear of but little value; one observation of this instrument during the day is obviously inadequate, and I have not therefore attempted to form a mean from it. I regret this the more, because it is a very interesting, and here at least nearly novel, subject of investiga-

* Communicated by the Author.

tion; and because the instrument challenges and deserves every attention—an observation after sun-set was for at least nine months in twelve incompatible with health, and one at noon or a few hours later would necessarily have been so often interrupted, that it would have been an incumbrance rather than otherwise. During many of our heavy rains it (the hygrometer) has shown several degrees of dryness, but this has invariably occurred with the wind at N. or N.W.; at S. or S.W. it has seldom reached a degree before deposition has taken place; and this apparent discrepancy is, I think, fully accounted for, by supposing that as the former (the N. and N.W. rains) originate upon, and come to us from, the mountains; we are drenched by rains which *belong* (if I may be allowed the term) to those regions, our own *immediate atmosphere* remaining for a time at least *below the point of saturation*. Throughout the year 1826 the sirocco visited us seldom, and then was generally either incomplete in its character or partial in its influence; but in a former year the hygrometer during its prevalence once showed 45 degrees of dryness, and even then æther failed to produce a deposition. I take for granted that it is very well established; although I am ignorant of the explanation, why the sirocco here is so perfectly dry, and that of the Mediterranean so loaded with moisture. It reaches us immediately from the coast of Africa, after passing over about 300 miles of sea: not a cloud is to be seen during its continuance; the whole atmosphere is of one uniform unvaried blue, of a peculiar character, as though viewed through what a painter would term a very thin warm aerial haze; it blows from the E.S.E., *lasts almost invariably three days*, and encounters you like the puffs from the mouth of an oven or furnace; the eyes and lips feel much as they do when exposed to a keen easterly wind on a frosty day in a northern climate: birds and insects seem to suffer from it more or less, and fowls confined in a close yard generally droop. Furniture warps and cracks; books gape as they do when exposed to a fire, and it is generally inconvenient and oppressive; but I have never heard (although no precautions are taken to avoid it by the labouring classes) that any ill effects have been produced by it. Some have asserted that it has raised the thermometer as high as 130° in the sun, and 95° in the shade; but I doubt the accuracy of the observations: for in the course of four years I have never seen it raised above 85° in *perfect shade*. There is, however, nothing in which observers are so likely to differ as in their results of the *maximum heat in the shade* in this place. I do not believe that it is to be *accurately obtained*, but by a *series of observations*,

tions, made upon several instruments, in various situations; for the sun is so vertical that no one thermometer permanently fixed in one given place, can remain during the four-and-twenty hours uninfluenced by either its direct or reflected rays:—few persons would, and none I believe hitherto have, attempted such a troublesome mode of accuracy; and as I only profess to give the indications of a single self-registering instrument, I have, after many trials in a variety of situations, adopted that which appears to be the least objectionable; namely, an unoccupied room, having another over it (for if only covered by the roof it will be palpably influenced by the sun), and the door and windows of which are constantly open. As to the probable average of rain which one year with another falls at the level of Funchal, I incline to differ from Mr. Bowdich. He estimates it at 40 inches, and it is true that 43·35 inches have this year fallen; but so much rain has not before been remembered by the oldest inhabitant, and last year the amount was only 20·43 inches, making an average of 31·89. 30 inches I should therefore consider much nearer to the truth. The autumnal rains commence generally towards the end of September, and terminate in December; they have more the character of violent and intermitting showers, than incessant daily rains. The winter rains set in, and prevail more or less throughout January and February, and are far more decided, and tropical. March and April are showery and windy. May fine, with a passing shower; and in June, July, August, and part of September, we seldom have a drop of rain. At the level of the city no perceptible dew is produced; but up the mountains it is profuse, and all meteorological observations are here circumscribed to a degree which is unknown in an extensive and tolerably plain country. Tables for Funchal belong to that locality only, and cannot in any way be made to suit the island generally; and until a series of observations shall be made at different heights and in different aspects, it is mere deception to apply any deductions to Madeira as a whole. At the moment that I am writing the sun is shining, and in these lower regions the day is lovely; sea-ward the atmosphere is cloudless, and there is more need of a parasol than an umbrella: but I have only to look out from a north window, to see it raining in torrents upon the summits of the mountains.

For the hourly observations of the barometer on the 4th and 5th of December I am indebted to Mr. Wilkinson, a gentleman who to accuracy and scientific knowledge adds a most enviable share of industry and perseverance. I am fully sensible that standing by themselves they are of little comparative

rative value, but I hope ere long to obtain others from the same source. The symprisometer I obtained accidentally, and in time only for the December observations: but as it is to me a new instrument, I know nothing of its merits, and give the results merely because I happened to note them at the time as a matter of inquiry. It has hitherto agreed very nearly on an average with what I believe to be an accurate barometer, and differed but slightly (after allowing for corrections) in each observation; and it certainly possesses an advantage in correcting itself for temperature. During three years the highest at which the barometer has ever stood is 30·62;—in Gourlay's tables 31· is mentioned: but at 400 feet above the sea (the height of Mr. Murdoch's instrument), I will venture to assert that such a phænomenon never occurred even a quarter of a century ago. 28½ inches are also given by him as the lowest; but when I observe in the same tables 26·9 (an evident misprint), I cannot but be charitable enough to give him the benefit of a compositor's blunder, especially when during the period before mentioned (three years) 29·39 is the lowest point to which the mercury has ever descended, and when it was *then* so *notoriously low* as to be the theme of general remark with several who paid attention to the matter. Generally the barometer is highest with a N.E. wind, and lowest with a S.W.; the great predominance of the first will, perhaps, appear extraordinary; but they are in fact the skirtings of the trade-winds. I do not pretend to great accuracy as to the precise points of the compass from which the winds have blown; upon a mountainous speck in the ocean such as this, the only method of judging is to look to sea with a glass; for all indicators on shore, or in the bay, serve only to deceive. During the greater part of the year we have a sea and land breeze morning and evening; and with this exception it is rare that the wind changes more than once during the four-and-twenty hours; for weeks, sometimes almost for months without intermission, it will come from the N., N.E., and E., and then we have our finest weather; to the S. of E. we look for a sirocco, and if it lingers at the S. or passes to the W. of it, heavy warm rain invariably follows, and continues as long as it remains in that quarter; to the N. of W. it becomes more violent, and always attended with cold, squally, severe (for this climate) weather; and in the winter with snow upon the summits of the mountains, and most of the little thunder and lightning which occur here—reaching the E. of N. it becomes again fine; and the sailor's mode of judging of the weather is here peculiarly applicable. I never remember a
week's

week's sunshine when the wind had passed from the W. to the N.E. by the S. No snow has yet appeared upon the mountains (December 31st), but the winter has notwithstanding been severe. More thunder and lightning has occurred than usual, for we have very little; indeed, a gold-leaf electrometer (not however in a favourable situation) has seldom been at all affected, and then only very slightly.

The quantity of rain from the eastward was so unusual a circumstance as to excite the observation and astonishment of every one. As a general law, to which but few exceptions will arise, it may be said that our rains are periodical, and that they come from the westward of N. and S.; and that to the eastward of those points of the compass it is all fine open weather. I have perhaps been needlessly precise in the description of the instruments used, and their positions; but as I felt that my name could give no weight to their results, I was unwilling to deprive them of the benefit which could accrue from a certificate of the mode in which they were conducted.

In the course of the summer I ascended Pico Ruivo, the highest point of the island, and by Newman's iron cistern barometer and Daniell's hygrometer made the height 6069 feet above the level of the sea; See Note (a). Bowdich gives it as 6164 feet; but then he states Mr. Veitch's turret, where his lower instrument hung, to be 154 feet in height, whereas it appears to me to be only 97; See Note (b). Admitting this to be the case we agree within 38 feet; no great matter of difference in such a height and under such opposite circumstances; for our instruments were different, and our data taken from contrary sides of the island: it should in candour also be stated; that my observations were conducted with one barometer only; and should his height of the turret appear to have been erroneous, the error I am persuaded did not originate with him; for when already embarked for Africa, he wrote me a note which has been destroyed, and the particulars of which I cannot now remember, requesting me to desire his publisher to make some alteration in the height of *that identical turret*. What this alteration was I cannot recall to mind; but I have no doubt that the publisher neglected to make the correction, and that the error is thus satisfactorily accounted for.

Funchal, Madeira, Dec. 31, 1826.

C. HEINEKEN, M.D.

Note

[illegible]

Note (b).

Funchal Beach Bar. 30-173 Temp. of Merc. 74°
Cistern 8 feet above sea 111 deducted for do.

30-062 Log. 47802

Mr. Veitch's turret . 30-080 Temp. of Merc. 74°
111 deducted for do.

29-969 Log. 47657
135

App. height 81.9 ft.
6

Expansion of air for vapour at 69° 0248
Increase of density for ditto 0146

And 9136—0104=9032 correct Sp. Gr.

Sp. Gr. Ap. ht. Cor. ht.

Then 9032 : 1,0000 :: 81 : 89 corrected height
8 height of cistern.

Mr. Veitch's turret 97 feet.

Lower temp. of air 73° Dew point 69°
Upper ditto . . . 74 Ditto . . . 70

2)147
73.5 mean.

Expansion of air at 73.5 = 0864

1,0000
0864

9136 Sp. Gr. of air corrected for temp.

Expansion of air for vapour at 70° 0257
Increase of density for ditto 0150
0102
0107
— = 2/0209
0104

N. B. As I am indebted to Mr. Daniell's tables for these corrections, I have given them almost in his words. He will I trust excuse the plagiarism, for I could substitute none more appropriate. The symprismeter, as nearly as I can ascertain with an instrument which is new to me, gives the height about 100 feet. Upon the beach is a pillar of 103 *measured feet* from the level of the sea. The eye carried from the parapet of Mr. Veitch's turret to the horizon, cuts this pillar five courses of stones below its summit; and allowing to each course one foot, this also will bring the height of the turret below 100 feet. I think, therefore, that 97 feet may fairly be considered its real measurement.

JANUARY 1826.

10 o'Clock A.M.					10 o'Clock P.M.					Rain.	Wind	Weather.
Barometer.			Hygrometer			Barometer.		Ther.				
Bar.	Th.		Air.	D.P.	Dry.	Bar.	Th.	+	-			
1	30.23	62				30.15	63	64.53			w.	Fine
2	30.20	62				30.13	63	64.55			NW.	Showers
3	30.02	63				29.80	65	67.58			w.	Showers [on m ^{ns}
4	29.70	63				29.63	62	66.50	1.30		NW.	H ^y r ⁿ with snow
5	29.70	61				29.80	61	67.52			NW.	Showers
6	29.87	60				29.79	60	63.53	.41		NW.	Rain [melt ^d
7	29.83	60				29.90	61	65.53			N.	Cl ^y snow n ^y
8	30.10	60				30.10	61	69.52			N.	Fine
9	30.10	60				30.04	61	67.55			w.	Small rain
10	30.11	61				30.13	64	66.54	.06		w.	Fine
11	30.10	62				30.05	64	67.57			w.	Slight showers
12	30.12	65				30.12	65	67.54	.05		w.	Slight showers
13	30.14	63				30.18	62	67.55			w.	Overcast
14	30.23	62				30.25	64	67.52			NE.	Fine
15	30.24	62				30.23	63	68.57			E.	Fine
16	30.20	62						66.57			SE.	Fine [storm
17	30.00	63				29.85	63	65.58	.10		SE.	Overc. p.m. thun ^r
18	29.85	63				29.94	63	64.58	.17		SE.	Showers
19	30.00	63				30.11	63	67.60			SE.	Overcast
20	30.15	62	62	50	12	30.10	62	68.57			SE.	Overcast
21	30.08	63	62	53	9	30.06	62	64.55			E.	Overcast
22	30.07	61	62	52	10	30.12	62	66.53			E.	Overcast
23	30.20	61	61	52	9	30.20	62	67.52			NE.	Fine
24	30.23	61	61	46	15	30.21	61	66.52			NE.	Fine
25	30.19	61	61	43	18	30.03	62	64.51			w.	Do. p.m. shower
26	29.88	61	60	53	7	29.91	60	63.54	.34		NW.	Showers, snow
27	29.98	61	61	51	10	30.01	60	66.52			NW.	Fine [on mount ^s
28	30.11	61	60	46	14	30.09	61	64.53			NW.	Fine
29	30.07	60	60	55	5	30.00	61	60.53	.63		NW.	Do. p.m. rain
30	30.15	60	60	52	8	30.20	60	66.53			NW.	Sh ^r much snow
31	29.94	59	60	57	3			64.53	2.26		w.	Heavy rain

Pressure. Corr^d for Expans.
 Max. 30.25 at 64° = 30.165
 Min. 29.630 62 = 29.547
 Mean 30.049 62 = 29.977

Temperature.
 Max. 69°
 Min. 50
 Mean 59.9

Dew Point.
 Max. 57° Min. 43°

Dryness.
 Max. 18 Min. 3

Rain 5.32 inches.

Winds.
 N. N.E. E. S.E. W. N.W.
 2 3 3 5 9 9 = 31.

Remarks.—A severe winter month, with much more snow than usual; on 31st the Hygrometer showed 3° of dryness during the heaviest and most universal rain that has occurred for some time.

FEBRUARY 1826.

10 o'Clock A.M.					10 o'Clock P.M.					Rain.	Wind	Weather.
Barometer.			Hygrometer			Barometer.		Therm.				
	Bar.	Th.	Air.	D.P.	Dry.	Bar.	Th.	+	-			
1	29.91	59	60	51	9	30.03	60	62	53		W.	Fine
2	30.16	60	60	55	5	30.23	61	62	54		W.	Fine
3	30.24	61	61	57	4	30.23	63	63	53		W.	Overcast
4	30.37	61	61	40	21	30.41	62	63	53		E.	Fine
5	30.46	62	62	50	12	30.46	62	63	54		NE.	Fine
6	30.47	62	62	51	11	30.45	62	64	54		NE.	Fine
7	30.42	62	62	54	8	30.39	63	63	58		NE.	Fine
8	30.41	62.5	63	59	4	30.36	62.5	64	56		W.	Overcast
9	30.26	62.5	63	58	5	30.21	63	62	51		W.	Fine
10	30.16	62	62	48	14	30.15	61	62	52		NW.	Do. in town,
11	30.23	61.5	62	54	8	30.31	61	63	55		NW.	Do. [sn. hills
12	30.40	62	62	59	3	30.40	63	63	51		NW.	
13	30.42	61.5	62	54	8	30.38	62	63	55		E.	Fine
14	30.35	61.5	62	55	7	30.31	62	63	56		W.	Overcast
15	30.35	62	62	57	5	30.41	63	63	55		NW.	Fine
16	30.50	63	64	55	9	30.50	64	65	55		E.	Fine
17	30.52	64	65	56	9	30.55	67	65	56		E.	Fine
18	30.59	64	65	52	13	30.59	64	64	53		E.	Fine
19	30.56	63	65	52	12	30.50	64	64	52		E.	Fine
20	30.47	63	64	50	14	30.48	63	64	51		E.	Fine
21	30.51	63	64	58	5	30.51	63	63.5	52		E.	Fine
22	30.52	63	63	58	5	30.49	63	64	53		NE.	Fine
23	30.46	63	63	54	9	30.44	62	63	56		E.	Overcast
24	30.49	63	64	52	12	30.46	64	64	53		E.	Fine
25	30.45	63.5	64	51	13	30.40	64	65	53		NE.	Fine
26	30.31	63.5	64	51	13	30.25	64	64	53		E.	Fine
27	30.29	63.5	64	52	12	30.29	64	66	55		E.	Fine
28	30.35	65	68	54	24	30.30	66	68	63		SE.	Sirocco

Pressure.

Max. 30.59 at 64° = 30.505
 Min. 29.91 59 = 29.838
 Mean 30.378 63 = 30.292

*Corr^d for Expans.**Temperature.*

Max. 68°
 Min. 51
 Mean 58.8

Dew Point.

Max. 59° Min. 40°

Dryness.

Max. 24 Min. 3

*Rain none.**Winds.*

N.E. E. S.E. W. N.W.
 5 12 1 6 4 = 28.

Remarks.—A very fine open month.

MARCH 1826.

10 o'Clock A.M.						10 o'Clock P.M.				Rain.	Wind	Weather.
Barometer.			Hygrometer			Barometer.		Ther.				
Bar.	Th.		Air.	D.P.	Dry.	Bar.	Th.	+	-			
1	30·25	65	70	40	30	30·22	66	68	58		SE.	Sirocco
2	30·23	66	67	55	12	30·20	66	67	55		SE.	Very little do.
3	30·23	65	65	57	8	30·23	66	67	56		NE.	Fine
4	30·25	65	66	53	13	30·27	66	67	57		NE.	Fine
5	30·34	66	66	60	6	30·32	67	67	58		E.	Fine
6	30·30	66	67	50	17	30·21	66	68	56		NE.	Fine
7	30·15	65·5	67	49	18	30·06	68	68	60		E.	Fine [hazy
8	30·02	67	67	57	10	30·02	69	69	60		E.	Very thick and
9	30·00	68	67	60	7	30·05	69	68	62		E.	Do.P.M.W. clear
10	30·08	69	68	59	9	30·20	67	68	56	·26	W.	Shower, P.M. fine
11	30·18	67	68	53	15	30·11	67	67	56		E.	Fine
12	30·05	67	68	57	11	30·02	69	69	57		E.	Fine
13	30·05	68	68	59	9	30·04	69	67	58		E.	Fine
14	30·10	67	67	56	11	30·12	69	67	60		E.	Fine
15	30·19	67	67	56	11	30·23	67	67	58		NE.	Fine
16	30·23	66	67	50	17	30·15	67	67	57		NE.	Fine
17	30·09	66	66	49	17	30·03	66	67	57		NW.	P.M. slight show ^r
18	30·02	65	65	55	10	30·03	65	67	57	·10	NW.	Showers
19	30·10	66	66	55	11	30·12	65	67	57	0·5	NW.	Showers
20	30·14	65	65	56	9	30·11	68	67	55		NW.	Fine
21	30·08	65	65	53	12	30·13	65	66	54		W.	Fine
22	30·19	64	65	47	18	30·16	65·5	66	56		NW.	Fine
23	30·10	64	64	47	19	29·90	67	67	53	·42	NW.	Do., P.M. rain
24	29·78	64	64	58	6	29·68	66	64	52	·66	W.	Do., P.M. rain, sn.
25	29·79	63	64	52	12	29·85	65	64	52	0·6	W.	Fine [on hills
26	29·94	61·5	61	47	14	30·01	61	64	51		NW.	Fine
27	30·07	61	61	46	15	30·07	61·5	63	53	·40	NW.	Rain at night
28	29·93	62	62	60	2	29·81	62	63	55	1·73	W.	Rain
29	29·79	63	64	60	4	29·92	62	64	55	0·4	SE.	Shower [show ^r .
30	30·02	61	62	50	12	30·05	61	63	55		E.	Fine, P.M. W.
31	30·03	62	63	49	14	30·11	66	65	54		NE.	Do.

Pressure. Corr^d for Expans.
 Max. 30·34 at 66° = 30·254
 Min. 29·68 66 = 29·595
 Mean 30·083 66 = 29·998

Temperature.
 Max. 69°
 Min. 51
 Mean 61·3

Dew Point.
 Max. 60° Min. 40°

Dryness.
 Max. 30 Min. 2

Rain 3·72 inches.

Winds.
 N.E. E. S.E. W. N.W.
 6 9 3 5 8 = 31.

Remarks.—The former part of the month was warmer and more settled than has been long remembered; from the 16th it was as usual, rainy and windy.

APRIL 1826.

10 o'Clock A.M.					10 o'Clock P.M.					Rain.	Wind	Weather.
Barometer.		Hygrometer			Barometer.		Ther.					
Bar.	Th.	Air.	D.P.	Dry.	Bar.	Th.	+	-				
1	30.02	62.5	64	55	9	30.06	65	64	56		NE.	Fine
2	30.09	64	65	57	8	30.15	67	64	56		NE.	Fine
3	30.18	64.5	67	52	15	30.21	65	65	55		E.	Fine
4	30.21	63	65	56	9	30.18	65	65	55		W.	Fine
5	30.18	65	67	49	18	30.16	67	66	60		SE.	Partial sirocco
6	30.10	66	69	47	22	30.10	66	67	65		SE.	Partial sirocco
7	30.07	66	67	55	12	30.12	65	66	57		E.	Fine
8	30.14	65	67	50	17	30.17	65	66	57		NE.	Fine
9	30.20	65	66	50	16	30.26	65	66	57		NE.	Fine
10	30.22	65	66	53	13	30.21	67	66	58		NE.	Fine
11	30.21	65.5	65	59	6	30.25	66	67	59		NE.	Fine
12	30.29	66	67	62	5	30.30	67	68	57		NE.	Fine
13	30.29	66	67	62	5	30.22	68	68	62		NE.	Fine
14	30.14	67	66	60	6	30.05	67	68	61		NE.	Fine
15	30.05	68	73	46	27	30.06	68	68	64		SE.	Sirocco
16	30.10	68	73	46	27	30.13	70	71	63		SE.	Sirocco
17	30.08	70	72	52	20	30.11	71	72	59		W.	Fine
18	30.06	69	68	62	6	30.01	70	72	62		W.	Fine
19	29.97	69	68	58	10	29.93	68	70	57		W.	Fine
20	29.86	68	68	56	12	29.83	69	70	58		W.	Fine
21	29.88	67	67	53	14	29.99	67	68	55	•04	N.	Fine
22	30.08	65	65	48	17	30.12	67	68	56		N.	Fine
23	30.10	65	64	50	14	30.14	67	66	57		N.	Cloudy
24	30.13	65	65	48	17	30.19	65	66	57		NE.	Fine
25	30.19	65	65	54	11	30.20	65	66	59		NE.	Fine
26	30.18	65	65	53	12	30.18	66	66	58		NE.	Fine
27	30.17	65	65	60	5	30.18	67	67	58		NE.	Cloudy
28	30.17	66	66	59	7	30.19	67	66	57		N.	Cloudy
29	30.18	66	65	59	6	30.16	67	69	59		NE.	Cloudy
30	30.12	65	65	51	14	30.12	65	66	60		E.	Cloudy

Pressure. Corr^d for Expans.
 Max. 30.30 at 67° = 30.214
 Min. 29.83 69 = 29.732
 Mean 30.140 67 = 29.959

Temperature.
 Max. 72°
 Min. 55
 Mean 62.8

Dew Point.
 Max. 62° Min. 46°

Dryness.
 Max. 27 Min. 5

Rain 0.04 inches.

Winds.
 N. N.E. E. S.E. W.
 5 14 3 4 4 = 30.

Remarks.—A fine spring month; the former part remarkably warm.

M A Y 1826.

10 o'Clock A.M.						10 o'Clock P.M.				Rain.	Wind	Weather.
Barometer.			Hygrometer.			Barometer.		Ther.				
	Bar.	Th.	Air.	D.P.	Dry.	Bar.	Th.	+	-			
1	30.09	65	65	57	14	30.05	66	66	60		E.	Cloudy
2	30.01	65	65	48	17	29.98	65	66	60		N.E.	Cloudy
3	29.96	65	65	62	3	29.95	66	66	57	.21	W.	Rain
4	29.96	65	65	60	5	29.97	66	67	61		W.	Fine
5	29.91	66	67	59	8	29.86	65	66	60	.30	SW.	Do. Cl. P.M. rain
6	29.78	65	65	64	1	29.74	66	66	61	1.15	S.	Rain
7	29.75	67	67	65	2	29.84	68	68	62	.10	W.	Showers
8	29.86	68	67.5	65	2.5	29.88	67	68	60	.69	W.	Rain
9	29.90	67	67	64	3	29.94	67	68	62	.25	NW.	Showers
10	29.93	67	67	65	2	29.93	67	69	62	.10	W.	Showers
11	29.91	67	67	65	2	29.92	67	68	60	.14	W.	Showers
12	29.91	67	67	61	6	30.04	67	68	55	.13	N.E.	Fine
13	30.06	65.5	65	57	14	30.14	65	66	59		N.E.	Fine
14	30.16	65	66	55	11	30.20	65	66	57		N.E.	Cloudy
15	30.20	65	65	56	9	30.21	66	67	57		N.E.	Fine
16	30.23	65	65	52	13	30.24	65	66	57		N.E.	Fine
17	30.23	64.5	64	54	10	30.24	65	66	57		N.E.	Fine
18	30.23	64.5	65	52	13	30.23	65	68	59		N.E.	Fine
19	30.23	66	66	56	10	30.21	66	66	60		N.E.	Fine
20	30.18	66	66	62	4	30.18	68	68	58		N.E.	Cloudy
21	30.14	67	67	56	11	30.13	67	68	61		N.E.	Cloudy
22	30.09	67	67	60	7	30.08	67	68	58		N.E.	Fine
23	30.07	66				30.10	67	68	58		N.E.	Fine
24	30.14	66				30.15	67	68	58		N.E.	Fine
25	30.15	66				30.18	67	68	59		N.E.	Fine
26	30.19	66				30.22	66	68	57		N.	Overcast
27	30.22	65				30.19	66	68	59		N.E.	Fine
28	30.13	66				30.16	67	69	59		E.	P.M. N.E. fine
29	30.10	66	66	54	12	30.04	66	68	59		N.	Fine, rain at n ^t .
30	29.94	66	67	56	11	30.06	67	68	59	.22	W.	Fine, rain at n ^t .
31	30.06	66	66	58	8	30.20	67	68	60		N.E.	Fine, rain at n ^t .

Pressure. Corr^d for Expans.
 Max. 30.24 at 65° = 30.155
 Min. 29.74 66 = 29.655
 Mean 30.063 66 = 29.978

Temperature.
 Max. 69°
 Min. 55
 Mean 63.2

Dew Point.
 Max. 65° Min. 48°

Dryness.
 Max. 17 Min. 1

Rain 3.29 inches.

Winds.
 N. N.E. E. S. SW. W. NW.
 2 17 2 1 1 7 1 = 31.

Remarks.—The former part of the month unusually wet ; the latter cold but seasonable.

JUNE 1826.

10 o'Clock A.M.					10 o'Clock P.M.					Rain.	Wind	Weather.
Barometer.		Hygrometer			Barometer.		Ther.					
Bar.	Th.	Air.	D.P.	Dry.	Bar.	Th.	+	-				
1	30.19	67	67	58	9	30.17	67	68	58	02	N.	Cloudy
2	30.13	66.5	67	55	12	30.10	67	68	61		W.	Fine
3	30.14	67	67	57	10	30.22	67	68	62		W.	Small rain
4	30.29	67				30.31	68	69	59		E.	Fine
5	30.29	68				30.27	69	69	60		NE.	Fine
6	30.22	68	68	58	10	30.21	68	69	63		NE.	Overcast
7	30.17	68.5	68	59	9	30.13	69	68	62		NE.	Overcast
8	30.07	68	68	57	11	30.05	69	69	59		W.	Overcast
9	30.05	68	68	60	8	30.06	69	69	61		N.	Overcast
10	30.10	68.5	69	59	10	30.19	68	69	60		NE.	Overcast
11	30.21	68.5	68	54	14	30.30	68.5	69	59		E.	Overcast
12	30.30	68	69	53	14	30.28	68	69	59		E.	Fine
13	30.27	68	68	56	12	30.24	68	69	61		NE.	Fine
14	30.17	68	68	60	8	30.13	68	69	62		N.	Fine
15	30.10	69	69	62	7	30.13	70	70	64		W.	Thick & overc.
16	30.16	69	69	61	8	30.18	70	70	64		W.	Thick & overc.
17	30.20	69.5	69	59	10	30.16	69	71	63		W.	Cloudy
18	30.12	69.5	69	57	12	30.10	69	70	61		W.	Cloudy
19	30.07	69	69	63	6	30.06	69	71	65		W.	Cloudy
20	30.05	70	70	62	8	30.09	70	71	63		W.	Fine
21	30.07	69.5	70	60	10	30.10	70	71	63		NW.	Fine
22	30.10	70	70	58	12	30.10	70	70	64		NW.	Overcast
23	30.10	70				30.15	70	71	62		NW.	Overcast
24	30.15	70	70	62	8	30.17	70	70	64		NE.	Overcast
25	30.15	69.5	69	58	11	30.18	70	70	65		NE.	Overcast
26	30.20	70	71	55	16	30.23	70	70	61		NE.	Overcast
27	30.21	70	70	60	10	30.20	70	71	63		NE.	Fine
28	30.20	70	71	65	6	30.20	70	71	64		E.	Fine
29	30.17	70.5	71	65	6	30.20	71	73	63		E.	Very fine
30	30.20	71	71	67	4	30.24	72	72	63		E.	Very fine

Pressure. *Corr^d for Expans.*
 Max. 30.31 at 68° = 30.210
 Min. 30.05 70 = 29.952
 Mean 30.166 69 = 30.068

Temperature.
 Max. 73°
 Min. 58
 Mean 65.8

Dew Point
 Max. 67° Min. 54°

Dryness.
 Max. 16 Min. 4

Rain 0.02 inches.

Winds.
 N. N.E. E. W N.W.
 3 12 3 9 3 = 30.

Remarks.—The former part of the month cloudy and cold ; the latter warm and fine.

[To be continued.]