

# SCIENCE IN THE MAKING

Title:

**Unpublished observations, 'A few extracts from a meteorological journal kept at Allenheads in the county of Northumberland [England]' by William Walton**

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Author:

William Walton

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Reference Number:

AP/23/42

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Date:

16 March 1840

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URL:

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Archives  
9 July 1840.

42

N<sup>o</sup>. 154.

A few Extracts from a Meteorological Journal  
kept at Allenheads in the County of Northumberland

Rec'd 19<sup>th</sup> March 1840

The Rev<sup>d</sup> W<sup>m</sup> Walton, F.R.S.  
by

S.H.C.

~~Commissariat by S. H. C. Christie Secy.~~

1839	9 A.M.	3 P.M.	Exter. Ther.	Rain in Inches	Direction of the Wind			
Jan. 1 <sup>st</sup>	* Barom: uncorr'd	Attal'd Ther:	Barom: uncorr'd	Attal'd Ther	9 A.M.	3 P.M.	Read off at 9 A.M.	9 A.M.
1	28.617	45.2	28.518	46.3	40.8	41.6	.220	W N W
2	28.503	42.4	28.536	44.1	32.1	33.8	.106	W
3	28.312	44.5	28.169	44.5	40.3	42.0		S W W
4	27.908	43.0	28.008	44.7	32.4	33.1	.415	W
5	28.037	42.2	27.979	43.4	31.3	31.5		W
6	28.163	38.4	28.062	40.3	22.2	31.2		S E
7	26.984	40.2	27.276	41.2	33.0	32.3	1.730	N W W
8	27.879	38.2	27.992	39.5	22.6	25.4		N
9	28.293	35.3	28.463	37.0	18.7	21.0		N N W
10	28.673	37.7	28.627	40.2	28.4	33.8		W va
11	28.455	41.3	28.423	44.0	40.5	42.5	.482	S W
12	28.629	43.7	28.657	44.6	35.6	37.8	.250	N W
13	28.350	46.6	28.368	46.7	44.5	38.5	1.104	S W W
14	28.374	46.7	28.283	46.8	36.7	37.2	.430	W
15	28.208	41.3	28.385	41.5	30.4	31.4		N W
16	28.537	41.0	28.614	41.4	27.5	30.2		N W
17	28.675	42.4	28.706	42.5	26.8	30.8		N E
18	28.737	37.6	28.659	40.4	23.0	30.2		S E
19	27.984	40.2	28.128	43.0	32.7	32.5	, 883	N W
20	28.385	41.4	28.394	42.6	34.5	37.3	.272	N W N
21	28.329	40.0	28.430	41.5	32.4	33.2		N E
22	28.837	38.6	28.912	39.6	28.8	31.3		N E
23	29.100	33.5	29.095	39.5	25.7	32.5		N W W
24	29.041	41.6	28.962	45.2	35.6	38.2		W
25	28.681	43.2	28.724	43.8	34.8	37.5		E
26	28.952	42.6	29.036	43.2	30.7	32.3		E N E
27	29.076	41.2	29.018	42.5	28.8	32.4		N W
28	28.616	37.7	28.328	40.4	25.4	31.3		N N W
29	28.102	36.8	27.757	40.5	25.3	30.0		N N W
30	27.754	33.3	27.600	35.2	21.2	23.8	melted snow	N N W
31	28.063	34.2	28.284	36.4	26.8	29.0	, 535	N E
Means	28.395	40.5	28.399	42.0	30.6	33.0	5.427	Easterly 5 <sup>days</sup> Westly 22 <sup>days</sup>

\* Allenheads is 1400 feet above the level of the Sea.

## Remarks

- A M High wind with light rain P M Cloudy - high wind  
A M High wind - cloudy - light hail showers P M Cloudy - wind - light snow  
A M Overcast - mild & fine P M Overcast - mild showers  
A M Cloudy - snow in the night P M Snow Showers  
A M Overcast - snow P M Showers of snow - light wind  
A M Perfectly cloudless & calm P M Lightly overcast. Evening snow  
A M A storm of wind which may be designated a hurricane, with sleet & rain P M Wind Showers  
A M A keen frost - quite cloudless - brisk wind P M Nearly clear  
A M Severe frost - clear & calm P M Perfectly & clear - severe frost  
A M Calm & nearly clear P M Lightly overcast - haze on hills  
A M Fine Showers - cloudy - mist on hills P M Overcast - light rain  
A M Some clouds - partial sunshine - wind P M Cloudy - wind  
A M Cloudy - wind - heavy rain in night P M Cloudy - showers  
A M Overcast - brisk wind P M Hail Showers - wind  
A M Wind - light clouds - sunshine P M Light clouds - wind  
A M Lightly overcast P M Nearly clear  
A M Light clouds - calm P M Lightly overcast  
A M Nearly cloudless - severe frost - calm & fine P M Cloudy  
A M Overcast - snow - rain in night P M Nearly cloudless  
A M Cloudy - wind - rain in night P M Cloudy - wind  
A M Calm with fog early - afterwards fine & clear P M Light clouds  
A M Overcast - keen frost Aurora borealis in the night P M Fine - light clouds  
A M Lightly overcast - sharp frost P M Fine - light clouds  
A M Light clouds - partial sunshine - brisk wind P M Cloudy - wind  
A M Fine - nearly clear P M Fine - partial sunshine Ev: rain  
A M Light snow - calm P M Cloudy - occasionally light snow  
A M Light clouds - calm with frost P M Overcast  
A M Nearly clear - sharp frost P M Overcast - light snow  
A M Severe frost - cloudless P M Snow with high wind  
A M Cloudy - brisk wind, afterwards snow P M Snow Storm  
A M High wind with snow P M Snow Showers

1839	9 A.M.	3 P.M.	Evening Ther.	Rain in Inches	Direction of the Wind			
Feb.	Baro: uncor.	Atmos. Ther:	Baro: uncor.	Atmos. Ther:	9 A.M.	3 P.M.	Read off at 9 A.M.	9 A.M.
1	28.693	35.0	28.692	37.5	25.7	28.2		N E
2	28.646	37.2	28.591	39.3	31.4	34.3		N W
3	28.617	39.5	28.457	41.5	34.7	34.5		S W
4	28.280	39.3	28.184	40.8	33.5	37.0		S
5	28.574	40.2	28.621	41.7	38.8	37.5	.115	W
6	28.756	40.4	28.693	41.8	32.6	37.0		W
7	28.702	42.2	28.671	44.7	39.8	43.2		S W W v a
8	28.786	43.0	28.602	45.5	37.2	46.0	.364	S S W
9	28.641	46.2	28.638	47.4	45.2	42.2	.150	S W
10	28.966	41.0	28.973	43.2	34.6	37.2	.232	W
11	28.863	44.2	28.800	45.7	37.3	40.7		S W
12	28.665	44.8	28.679	46.5	42.7	41.2	.093	W
13	28.834	43.2	28.768	45.2	35.5	38.3		N W W
14	28.162	46.0	28.340	46.0	40.2	37.8	.285	S W W
15	28.438	43.3	28.364	45.5	34.0	38.2		W
16	27.918	41.5	27.928	43.6	31.2	32.8	.876	W
17	27.913	40.7	27.913	43.3	29.8	30.7		W
18	28.195	40.0	28.294	42.0	27.2	35.6		N E
19	28.274	38.2	28.242	40.3	25.8	33.3		S E
20	28.396	40.0	28.610	41.7	31.2	32.0		S E E
21	28.792	36.5	28.691	39.3	26.8	28.7		E
22	28.269	39.2	28.247	40.6	35.7	37.4		N W
23	28.085	40.3	28.150	42.3	34.2	35.8	.863	N W
24	28.276	41.0	28.239	44.0	34.8	36.7		N W W
25	28.183	40.5	28.254	42.3	31.6	36.0		N W
26	28.643	36.0	28.507	40.5	30.6	35.2		N W W
27	28.293	41.5	28.300	43.7	35.5	34.6		W
28	28.612	42.2	28.612	43.8	35.6	39.5	.742	W
Means	28.470	41.1	28.466	42.8	34.0	36.4	sum 3.720	Easterly 5 Days Westerly 23 Days

## Remarks

- All Overcast PM Lightly overcast  
All Lightly overcast PM Fine - nearly clear  
All Cloudy - mist on hills - slight thaw PM Fine - partial sunshine  
All Overcast PM Light rain with wind  
All Calm - fine & clear PM Lightly overcast  
All Fine & clear - slight frost PM Lightly overcast - mist on hills  
All Fine - nearly clear PM Overcast - light rain  
All Lightly overcast - fine (rain in night) PM Light rain - wind  
All Overcast - brisk wind - mist on hills PM High wind & rain  
All Fine - light clouds PM Fine - nearly clear  
All Overcast - very light rain - brisk wind PM Cloudy - wind - fair  
All Overcast - light rain - mild & calm PM Cloudy - fine  
All Brisk - sunshine - some light clouds PM Clouds - partial sunshine  
All Overcast - wind & rain - (rain in night) PM Wind - sleet & hail  
All Clouds - partial sunshine - brisk wind PM Clouds - light wind  
All Cloudy - light snow showers (rain in night) PM Snow Showers - wind  
All Clouds - sunshine - snow showers PM PM Snow Showers  
All Clouds - sunshine (snow in night) PM Cloudy - mild & fine  
All Severe frost - nearly clear - brisk wind PM Overcast Ev: snow  
All Overcast - light snow - mist on hills PM Overcast - wind & snow  
All Lightly overcast - keen frost PM Overcast - wind - driving snow  
All Overcast - sleet & snow showers PM Overcast - light showers  
All Cloudy - occasionally light snow PM Light showers - brisk wind  
All Cloudy - brisk wind PM Hail & snow showers  
All Cloudy - brisk wind PM Clouds - sunshine - brisk wind  
All with clear - calm & fine, but sharp frost PM Fine & clear  
All Overcast - (Snow in night) PM Snow Showers  
All light clouds - sunshine PM Fine - partial sunshine

1839	9 A.M.	3 P.M.	Exter: Ther:	Rain in Inches	Direction of the Winds			
Month	Baro: uncorr.	Atmosph: Ther:	Baro: uncorr.	Atmosph: Ther:	9 A.M.	3 P.M.	Read off at 9 A.M.	9 A.M.
1	28.410	42.4	28.316	46.5	39.4	43.4		S WSW
2	28.435	41.5	28.527	44.7	34.8	41.5		W
3	28.723	40.7	28.746	45.5	32.7	39.7		S E
4	28.747	41.8	28.771	43.7	33.6	35.8		S E S
5	28.833	37.7	28.832	41.2	30.5	33.0		S E E
6	28.641	40.2	28.566	40.5	27.0	29.2		S E E
7	28.446	39.0	28.442	39.7	26.4	28.8		E
8	28.537	38.5	28.608	40.0	27.2	29.5	melted snow 1.025	N E
9	28.641	37.2	28.662	40.2	22.6	31.8		N E
10	28.672	37.5	28.691	40.0	26.7	34.2		N W
11	28.650	37.0	28.678	40.7	31.0	36.6		S E
12	28.701	37.5	28.697	40.5	28.8	37.2		S E
13	28.639	37.4	28.608	40.8	34.5	39.7		S E S
14	28.587	40.0	28.587	42.5	37.7	41.0		S
15	28.322	42.2	28.139	43.0	39.8	41.6	, 315	S va
16	27.836	42.6	27.850	42.7	34.7	33.7	, 760	N W
17	28.347	41.3	28.501	43.2	31.6	31.8		N W N
18	28.638	36.4	28.617	40.4	30.5	37.0		E
19	28.586	37.2	28.698	41.5	32.6	39.2		N W W
20	28.407	41.0	28.260	41.7	37.4	41.3		S W W
21	28.192	40.7	28.178	44.2	36.5	42.5	1.087	N W W
22	28.085	41.6	28.096	44.0	32.6	36.2		N W
23	28.067	44.0	28.064	47.5	43.7	44.3		W
24	28.045	42.3	28.121	45.8	37.3	41.0	, 125	W
25	28.044	42.7	28.000	45.4	37.2	39.5		N W W
26	28.432	38.0	28.467	44.8	31.6	41.6		S W
27	28.118	40.2	28.073	46.8	45.3	47.0	, 956	S W W
28	27.884	42.3	27.950	47.2	39.5	43.2		N W W va
29	28.208	41.4	28.354	41.5	34.6	36.3	, 174	N E E
30	28.382	39.3	28.392	41.2	30.0	35.2		S E E
31	28.237	38.2	28.233	40.6	32.7	35.0	, 085	S E S
Means	28.405	39.9	28.413	42.8	33.6	37.6	Easterly 14 4.527	Westerly 17

## Remarks

- A M Overcast - fair P M Cloudy - brisk wind  
A M Fine - nearly clear P M Fine - nearly clear  
A M Fine, calm & clear P M Fine & clear - light wind  
A M Overcast - mist on hills P M Lightly overcast - light wind  
A M Overcast - light hail showers P M Showers of very small snow  
A M Overcast - light snow P M Continued snow  
A M Heavy fall of snow P M Snow showers  
A M Light clouds - partial sunshine - severe frost P M Snow showers  
A M Clouds - sunshine - very severe frost (ther. at 16° during night) Snow showers  
A M Bright sunshine - mist on hills P M Nearly clear  
A M Show with wind P M Wind driving sleet - partial sunshine  
A M High wind - very bleak P M Cloudy - high wind  
A M Misty - (snow in night) brisk wind P M Sleet - showers  
A M Overcast - light showers - mist on hills P M Very overcast  
A M Overcast - calm & mild (rain in night) P M Heavy Rain  
A M Overcast - mist on hills P M Overcast - brisk wind. Ev. snow  
A M Snow with brisk wind P M Snow  
A M Lightly overcast - calm P M Fine - nearly clear  
A M Nearly clear P M Cloudy - bleak. Evening snow  
A M Clouds - partial sunshine P M Continued Rain  
A M Overcast - light rain P M Occasionally light showers - mild & calm  
A M Overcast - snow with brisk wind P M Wind - snow showers  
A M Brisk wind with showers (rain in night) P M Showers. Ev. fair  
A M Cloudy - brisk wind - partial sunshine P M Hail & snow showers  
A M Snow - brisk wind P M Cloudy - light showers. Ev. snow  
A M Clear sharp frost P M Cloudy - fine  
A M Cloudy (heavy rain in night) P M Cloudy - brisk wind  
A M Overcast - light snow ~~snow on ground~~ <sup>showers</sup> P M Nearly clear  
A M Overcast - light snow which laid on the ground P M Nearly clear  
A M Brisk wind - nearly clear - sharp frost P M High wind - fair  
A M Lightly overcast - high wind - very cold & bleak P M Overcast - wind

1839	9 A.M.		3 P.M.		Evening		Rain in Inches	Direction of the Wind
	Baro:	Atmos. ther:	Baro:	Atmos. ther:	9 A.M.	3 P.M.		
1	28.316	39.5	28.406	42.2	33.2	36.2		E
2	28.619	38.2	28.682	40.3	32.4	32.4		N E C
3	28.676	37.0	28.665	39.6	28.8	32.0		S E E
4	28.664	37.3	28.634	39.5	31.0	34.8		E
5	28.467	36.7	28.562	39.4	31.7	34.2		S E E
6	28.845	37.3	28.910	41.2	36.0	37.0		S E
7	28.994	38.6	29.000	42.0	31.0	37.2		E
8	29.001	38.5	28.986	42.4	31.5	38.3		E
9	29.092	38.8	29.131	42.2	32.7	37.2		E
10	29.234	40.3	29.235	44.0	33.2	40.2	.294	N E
11	29.245	40.3	29.204	44.2	35.2	43.3		N E
12	29.060	43.8	29.026	47.3	41.3	46.0		N va
13	28.904	44.0	28.863	47.4	43.5	45.3		N
14	28.846	44.2	28.845	46.8	44.4	47.2		W
15	28.693	42.6	28.601	44.2	42.3	45.5		S W W
16	28.308	44.2	28.256	45.5	42.0	46.2		S W
17	27.883	45.5	27.911	44.6	41.2	44.4	.086	S W
18	27.954	43.2	28.023	47.2	39.0	43.6	.162	W
19	28.195	45.6	28.281	47.4	39.2	44.8		N W W
20	28.537	44.2	28.633	47.2	37.4	45.3	.346	N W W
21	28.800	43.7	28.826	47.7	41.3	47.3	.743	N W
22	28.832	46.5	28.713	48.5	46.5	52.0		N E
23	28.577	47.3	28.618	48.8	46.6	47.5	.390	N
24	28.750	45.7	28.757	48.3	38.4	45.6	.074	N E E
25	28.711	45.5	28.667	49.7	44.6	53.2		N
26	28.692	47.2	28.743	49.8	47.6	51.5		W
27	28.835	47.3	28.878	52.3	48.2	55.0		W
28	28.944	48.0	28.950	52.2	47.0	53.6		N W W
29	28.786	50.5	28.770	53.0	57.3	54.7		S W W
30	28.724	52.4	28.704	57.4	53.2	59.5	.056	W va
Means	28.766	43.1	28.715	46.0	39.7	44.3	2.151	Easterly 17 Westerly 13

## Remarks

- All Some snow with high wind P.M. lightly overcast  
All Overcast - high wind P.M. overcast - very bleak  
All Overcast - wind - light snow P.M. overcast - light snow - very bleak  
All Overcast - very bleak P.M. lightly overcast - bleak  
All Overcast - High wind - very bleak P.M. Wind - very light or small snow  
All Lightly overcast P.M. lightly overcast - calm  
All Perfectly cloudless P.M. Clear - very piercing frost wind  
All Bright sunshine - brisk wind P.M. Brisk wind - clear  
All Overcast - occasionally very small hail P.M. Overcast  
All Nearly clear - keen frost in night P.M. Fine & clear with frost air  
All Nearly cloudless - calm (sharp frost in night) P.M. Fine & clear  
All Overcast P.M. Lightly overcast - first fine spring day  
All Overcast P.M. Lightly overcast - mild & fine  
All Lightly overcast P.M. Lightly overcast - calm & fine  
All Overcast - fine P.M. Lightly overcast - calm & fine  
All Lightly overcast - brisk wind P.M. Overcast with appearance of rain  
All Overcast - rain - mist on hills - sleet P.M. Cloudy  
All Clouds - light showers of hail & sleet P.M. Light snow showers  
All Showers of sleet with brisk wind P.M. Snow showers - some sunshine - thunder & rain  
All Overcast - wind - hail showers P.M. Hail showers - gleams of sunshine - thunder & rain  
All Overcast - light showers P.M. Dark clouds - gleams of sunshine  
All Bright sunshine - some light clouds P.M. Overcast - fine - evg. rain  
All Overcast - rain with close mist P.M. Overcast - calm & fine  
All Overcast P.M. Bright sunshine - some light clouds - fine  
All Lightly overcast P.M. Fine - sunshine - some light clouds  
All Lightly overcast P.M. Overcast - fine - calm & mild  
All Fine & clear P.M. Fine - light clouds - partial sunshine  
All Light clouds - fine & calm P.M. Fine & clear  
All Fine occasionally very light rain P.M. Clouds - occasionally very light rain  
All Overcast - fine & mild P.M. Lightly overcast - fine

1839	9 A.M.		3 P.M.		Extr. Ther.		Rain in Inches	Direction of the Wind
	Baro: unorr.	Atmosd. Ther:	Baro: unorr.	Atmosd. Ther:	9 A.M.	3 P.M.	Read off at 9 A.M.	9 A.M.
1 May	28.625	55.0	28.624	58.5	55.3	58.6		NW
2	28.675	52.6	28.683	53.2	47.7	54.2		N E N
3	28.596	52.7	28.592	55.7	52.3	57.4		W
4	28.629	50.4	28.358	51.8	49.2	53.0		W
5	28.297	52.5	28.433	57.5	51.3	59.8		S W W
6	28.785	51.7	28.804	51.6	43.0	43.8		N E
7	28.768	48.2	28.724	55.0	45.5	56.2	, 100	S E
8	28.667	52.0	28.645	56.7	55.0	61.2		N E wa
9	28.738	48.7	28.742	48.4	35.0	37.0		N C
10	28.823	44.2	28.807	48.0	39.2	43.2	, 514	N E
11	28.868	45.3	28.825	47.2	40.0	48.3		N E
12	28.767	45.3	28.766	49.3	42.7	50.0		N E
13	28.650	48.2	28.409	48.2	44.8	37.5	, 046	N W W
14	28.317	42.4	28.237	46.0	33.6	40.2	, 352	E
15	28.031	43.0	27.982	46.2	40.2	43.3	, 370	N W
16	28.023	44.2	28.148	45.7	39.8	44.2		W
17	28.484	45.4	28.537	48.5	44.0	50.0	, 245	S W W
18	28.553	46.0	28.536	51.6	47.2	57.2		S W
19	28.587	50.4	28.689	54.5	52.0	58.5		S W W
20	28.868	52.3	28.888	56.2	51.2	58.5		W
21	28.771	47.2	28.705	54.0	45.8	49.2		N W
22	28.739	47.6	28.824	50.2	36.5	44.6	, 452	N E
23	28.695	48.0	28.530	52.4	43.4	50.6	, 053	N W
24	28.638	47.5	28.690	49.8	41.2	45.4	, 256	N E
25	28.765	46.2	28.776	51.2	42.2	54.0		N E
26	28.787	49.3	28.787	53.0	50.3	57.2		N W
27	28.827	52.0	28.860	58.5	55.7	64.8		W
28	28.928	57.2	28.882	61.5	57.3	65.4		E
29	28.965	54.8	28.974	59.0	52.6	57.2		S E E
30	28.936	48.4	28.933	55.2	47.2	58.5		N E
31	28.871	48.6	28.832	53.0	45.3	56.5	, 023	N E
Means	28.654	48.9	28.655	52.5	46.0	52.1	sum 2,411	Easterly 16 days Westery 15 days

## Remarks

- A.M. Fine & clear P.M. Lightly overcast - fine  
A.M. Misty - but calm & fine P.M. Overcast - calm & fine  
A.M. Haze - nearly clear P.M. Light clouds - partial sunshine  
A.M. Lightly overcast P.M. Overcast - occasionally light rain  
A.M. Very dark clouds P.M. Clouds having the appearance of thunder  
A.M. Close mist with very light rain P.M. Misty with very light rain  
A.M. Fine & clear with light wind P.M. Fine & clear  
A.M. Fine & nearly cloudless P.M. Remarkably fine & clear  
A.M. Snow P.M. Continued snow  
A.M. Overcast - snow on the ground & yet light snow showers P.M. Partial sunshine  
A.M. Nearly clear - calm & frost in night P.M. Lightly overcast  
A.M. Lightly overcast P.M. Clouds - partial sunshine  
A.M. Cloudy - brisk wind (a shower in night) P.M. Hail & snow  
A.M. Overcast - occasionally very light snow P.M. Continued fall of snow  
A.M. Clouds - sunshine - a inches of snow on ground (frost in night) P.M. Cloudy - wind  
A.M. Overcast - brisk wind - light rain P.M. Showery  
A.M. Cloudy - partial sunshine P.M. Cloudy - brisk wind  
A.M. Overcast - a few drops of rain P.M. Dark clouds - brisk wind  
A.M. Overcast - calm & milde - haze on hills P.M. Sunshine - some light clouds  
A.M. Fine - nearly clear P.M. Fine - some light clouds  
A.M. Overcast - bleak for the season P.M. Overcast - showers  
A.M. Overcast with light rain - (sleet & rain in night) P.M. Showers - very bleak  
A.M. Light clouds - brisk wind - partial sunshine P.M. Showers - high wind  
A.M. Very bleak - dark clouds - light hail Showers P.M. very bleak for season  
A.M. Clouds - sunshine (frost in night) P.M. Fine - light clouds - sunshine  
A.M. Clouds - partial sunshine P.M. Fine - light clouds - sunshine  
A.M. Fine - calm & nearly clear P.M. Fine - nearly clear  
A.M. Fine - calm & cloudless P.M. Fine & clear  
A.M. Fine & clear - light wind - frost in night P.M. Fine & clear - brisk wind  
A.M. Close mist P.M. Fine - nearly clear  
A.M. very hazy P.M. Fine - nearly clear -

1839	9 A.M.		3 P.M.		Evening Ther:		Rain in Inches	Direction of the Wind	
	June	Baro: unwr:	Atmosph: Ther:	Baro unwr:	Atmosph: Ther:	9 A.M.	3 P.M.	Read off at 9 A.M.	9 A.M.
1	28.750	58.7	28.692	51.7	43.7	57.5			E
2	28.634	57.6	28.559	50.8	47.5	54.8			N E
3	28.427	48.5	28.393	50.5	43.6	45.2			S E
4	28.362	49.4	28.373	54.2	51.5	61.3			S E va
5	28.460	54.7	28.512	59.3	54.6	63.2			W
6	28.516	57.5	28.518	60.8	61.7	67.5			S W
7	28.618	57.0	28.335	60.0	54.0	54.8			S E
8	28.411	57.2	28.447	60.3	56.4	65.2	.262		S W
9	28.477	58.7	28.593	60.5	55.5	61.0			S W
10	28.719	57.4	28.763	59.2	54.2	66.2			W
11	28.728	57.8	28.844	58.4	54.3	55.0	.110		N W
12	28.744	56.0	28.738	59.0	54.5	58.7	.186		W
13	28.755	57.7	28.738	53.2	48.3	50.5	.064		S E
14	28.692	57.0	28.690	52.3	48.5	52.0	.722		S E
15	28.700	52.5	28.752	60.4	53.7	64.2			N W va
16	28.913	58.0	28.956	64.0	61.3	70.5			N
17	28.952	61.3	28.908	64.5	63.2	67.4			S E
18	28.700	61.5	28.772	67.4	65.0	75.3	.376		W
19	28.583	61.5	28.625	65.2	61.8	66.5	1.017		W
20	28.768	61.6	28.746	62.0	64.7	63.7			W
21	28.409	58.7	28.376	59.0	53.2	58.2	.786		S E va
22	28.213	58.5	28.085	59.5	56.5	58.0			S E
23	27.923	57.2	28.005	58.2	55.6	57.6	.290		W
24	28.285	54.0	28.386	58.0	51.5	57.3	.462		W
25	28.506	56.2	28.537	59.8	55.7	64.4			W
26	28.369	53.6	28.328	54.0	51.4	53.5			N E
27	28.408	53.5	28.469	56.2	52.6	56.4	.580		W
28	28.450	57.7	28.482	53.0	48.3	50.5	.087		N E
29	28.692	57.4	28.720	53.5	44.7	46.6	.118		N W
30	28.832	48.7	28.852	52.3	46.2	53.2	.065		N W
means	28.561	55.0	28.573	57.9	53.7	59.1	5.125	Easterly 13 Westerly 17	

## Remarks

- A M Overcast - mist on hills P M Clouds - sunshine - cold for the season  
A M Light clouds - partial sunshine P M nearly clear - extremely dry & hot  
A M Overcast - light wind P M Overcast - very light rain - bleak for season  
A M Overcast - P M Clouds - sunshine - very fine  
A M Fine - nearly clear P M Cloudy - fine - having the appearance of thunder  
A M Fine & clear P M Cloudy & thunderous looking  
A M Overcast - light rain P M Overcast - rain - light wind  
A M Dark clouds - partial Sunshine P M Clouds - Sunshine - fine  
A M Fine - nearly clear - brisk wind P M Fine - brisk wind  
A M Light clouds - fine P M Clouds - Sunshine - fine, but severe drought  
A M Overcast - brisk wind (some rain in night) P M Overcast - somewhat bleak  
A M Overcast - light rain P M Occasionally light rain  
A M Overcast - mist on hills P M Overcast - bleak - Evening, rain  
A M Overcast - rain in night P M Lightly overcast  
A M Fine & clear P M Fine - calm & clear  
A M Fine - calm & clear P M Fine, calm & clear (ther: in sunshine at 106°)  
A M Fine & clear - extremely dry & hot P M Fine & clear - brisk wind  
A M Fine, but having appearance of thunder - (Thunder & rain in previous night) P M very sultry  
A M Cloudy - (severe thunder storm in night) Fine - clouds - bright sunshine  
A M Cloudy - fine P M Overcast with dark clouds - very gloomy  
A M Overcast - rain & wind (rain in night) P M very gloomy - some rain  
A M Overcast - very light rain P M Overcast - light rain - Ev: heavy rain  
A M Cloudy - brisk wind - showers P M Showers - Ev: heavy rain  
A M Cloudy - brisk wind - very light showers P M Wind - gloomy  
A M Clouds - partial Sunshine P M Light clouds - Sunshine - very fine  
A M Overcast - very light rain P M Continued rain  
A M Overcast - light rain P M Heavy-looking, dark clouds - showers  
A M Overcast - dull P M Overcast - occasionally a few drops of rain  
A M Mist with light rain P M Overcast - wind - light rain  
A M Lightly overcast - bleak for the season P M Light clouds - sunshine

1839	9 A.M.		3 P.M.		Evening Ther:		Rain in Inches	Direction of the Wind	
	July	Baro:	Atmos. Ther:	Baro:	Atmos. Ther:	9 A.M.	3 P.M.	Read off at g.tide	9 A.M.
1	28.410	52.5	28.423	58.5	53.6	61.4			NW
2	28.951	54.2	28.957	56.7	51.7	62.2			E
3	28.944	57.0	28.942	62.5	58.6	69.3	.025		NW
4	28.877	60.3	28.874	66.3	61.0	70.5			W
5	28.823	59.4	28.789	66.5	59.8	69.2			W
6	28.538	58.0	28.491	61.4	53.3	62.0			SW
7	28.332	59.5	28.325	60.7	56.7	62.2			S
8	28.190	60.2	28.214	60.0	57.5	65.0			SW
9	28.231	58.0	28.242	59.6	54.8	57.3	.083		SW
10	28.344	56.4	28.388	59.5	53.5	60.6	.170		SW
11	28.484	58.2	28.467	60.5	58.4	61.2	.442		SW
12	28.270	59.8	28.423	60.8	58.3	60.7	.770		S
13	28.654	56.7	28.743	61.2	57.6	63.0	.063		W
14	28.628	58.3	28.534	59.4	56.7	57.5			SE
15	28.495	56.2	28.576	58.2	53.8	61.5	.112		W
16	28.740	56.8	28.774	60.3	55.7	62.4			W
17	28.738	58.2	28.645	61.5	59.5	62.8			S
18	28.229	58.5	28.114	61.2	56.6	62.2			SES
19	28.028	56.3	28.011	57.5	51.8	57.0	.457		SE
20	28.177	57.0	28.240	58.7	56.2	59.2	.983		SW
21	28.372	58.5	28.423	60.0	58.7	61.3			SW
22	28.532	58.3	28.564	59.0	57.5	58.2			SW
23	28.600	58.5	28.562	60.5	57.2	60.8			SWW
24	28.363	57.4	28.356	60.3	55.8	62.7	.360		SW
25	28.402	57.2	28.413	60.0	57.2	62.4	.055		W
26	28.425	56.8	28.374	59.5	56.5	58.7			NE
27	28.275	55.0	28.298	55.3	51.6	51.3	.750		E
28	28.458	55.3	28.495	60.0	55.4	61.3	.856		W
29	28.595	55.8	28.566	55.7	55.6	57.2			W
30	28.488	56.2	28.477	55.2	54.0	55.7	.242		E
31	28.224	53.7	28.216	54.6	52.8	47.6	.095		SE
Means	28.484	57.2	28.497	59.7	56.1	60.7	sum 5.463	Easterly 8 Westerly 23	

## Remarks

- All light clouds - sunshine P.M. Fine - nearly clear  
All mist with light rain P.M. Fine but cloudy  
All Fine & clear P.M. Fine & clear  
All Fine - perfectly cloudless P.M. Fine & clear  
All Fine & clear P.M. Fine & clear - light breeze  
All overcast - very light rain P.M. Clouds - partial sunshine  
All overcast - white - very light rain P.M. Cloudy - brisk wind - dull  
All overcast P.M. Dark clouds - some drops of rain - occasional sunshine  
All dark clouds - brisk wind P.M. Dark clouds - showerly  
All overcast - wind & rain P.M. Heavy Showers - brisk wind  
All lightly overcast (rain in sight) P.M. Heavy Showers  
All overcast - light rain P.M. Cloudy - partial sunshine  
All some light clouds - sunshine - brisk wind P.M. Fine & nearly clear  
All overcast - very gloomy - afterwards rain P.M. Showerly  
All Showers & dark clouds P.M. Clouds - partial sunshine - fine  
All some large white clouds - partial sunshine P.M. Cloudy - fine  
All overcast - light wind P.M. lightly overcast - wind  
All overcast - wind & rain P.M. High wind cloudy - haze on hills  
All very high wind with rain P.M. Wind with continued rain  
All overcast (rain in sight) P.M. Overcast - frequent showers  
All cloudy - dull P.M. Fine - bright sunshine  
All overcast P.M. Overcast - light wind  
All cloudy - afterwards sunshine P.M. Overcast - showers  
All overcast - heavy rain P.M. Cloudy - calm & mild  
All cloudy - brisk wind P.M. Partially sunshine - fine  
All cloudy - dull P.M. very dull but calm & mild. Evening, rain  
All very heavy rain (rain in sight) P.M. Continued heavy rain  
All clouds - sunshine - brisk wind P.M. Clouds - sunshine - showers  
All clouds - showers P.M. Thunder with heavy showers  
All very lowering, dark clouds P.M. Overcast - occasionally light rain  
All overcast with rain P.M. Continued rain with wind - very bleak forenoon

1839	9 A.M.		3 P.M.		Evening Therm.		Rain in Inches	Direction of the Wind
	Baro: uncor:	Attched Therm:	Baro: uncor:	Attched Therm:	9 A.M.	3 P.M.	Read off at 9 A.M.	9 A.M.
1	28.546	53.4	28.592	59.3	51.2	63.5	.374	N
2	28.599	57.5	28.648	60.0	59.0	59.5		S W
3	28.724	57.0	28.781	61.3	58.5	63.8		W
4	28.877	68.2	28.942	59.5	56.6	61.5		W
5	28.956	57.3	28.918	58.7	54.7	60.0		N W
6	28.761	57.0	28.626	57.2	57.5	54.8		S W
7	28.268	57.6	28.279	57.3	57.3	58.7		S W
8	28.511	55.7	28.615	59.0	54.8	59.2	.293	W
9	28.652	57.2	28.627	58.4	56.2	60.5		S W W
10	28.511	57.0	28.500	59.2	52.2	57.3	.062	W
11	28.570	56.2	28.718	57.3	51.3	55.2	.753	N W
12	28.892	50.7	28.882	55.0	51.0	54.7		N C
13	28.790	54.0	28.753	54.7	51.5	52.8	.210	N E
14	28.672	51.3	28.537	56.2	51.7	54.5		E
15	28.427	56.3	28.412	57.0	56.5	58.4	.482	S W
16	28.365	56.5	28.355	57.2	52.7	55.7	.910	E
17	28.465	54.6	28.511	55.4	51.4	54.0	.463	N E
18	28.646	53.3	28.675	54.0	51.5	56.3	.050	N E
19	28.644	54.2	28.663	53.5	49.7	50.2	.402	S C
20	28.744	50.7	28.793	53.6	46.5	49.5	.445	N
21	28.832	50.0	28.828	54.5	47.4	54.7	.040	N E
22	28.804	52.3	28.807	56.8	52.0	61.5		W
23	28.844	57.4	28.834	58.5	60.2	61.6		S W W
24	28.650	59.2	28.572	58.5	59.5	56.2		S W
25	28.551	56.3	28.541	59.0	54.2	60.3	.216	W
26	28.448	56.4	28.457	58.2	54.8	58.5		W
27	28.387	55.0	28.464	56.7	51.3	52.7	.048	W <sup>in</sup>
28	28.546	51.5	28.585	56.5	50.6	55.0	.292	N W
29	28.374	58.2	28.388	60.0	56.5	60.7		S W
30	28.368	57.7	28.382	58.7	55.8	60.5	.124	W
31	28.093	57.2	27.909	57.5	51.6	53.0		S S W
Means	28.595	55.3	28.598	57.4	53.8	57.3	5.164	East by N <sup>days</sup> 10 West by S <sup>days</sup> 21

## Remarks

- A M Clouds - sunshine P M Fine - nearly clear  
A M Overcast - wind - very light rain P M Overcast - light rain  
A M Fine, calm & clear P M Fine & clear Evening, cloudy  
A M Clouds - sunshine - brisk wind P M Fine - clouds - sunshine  
A M Fine & clear P M Cloudy - partial sunshine - brisk wind  
A M Lightly overcast - afterwards light showers P M Showery  
A M Overcast - rain P M Showery  
A M Cloudy - high wind - very light showers P M Light showers  
A M Lightly overcast P M Overcast - very dull  
A M Clouds - sunshine - light showers P M Light showers  
A M Overcast - wind - light rain (rain in night) P M Showery  
A M Lightly overcast P M Overcast -  
A M Clouds - partial sunshine (rain in night) P M very gloomy  
A M Mist with light rain - otherwise thick haze P M Continued rain  
A M Overcast - brisk wind P M Overcast - light rain  
A M Overcast with heavy rain - close mist P M Fog with rain  
A M Overcast - light rain (rain in night) P M Overcast - showers  
~~A M Cloudy, P M overcast - a few drizzling rain~~  
~~A M Fine & nearly clear - P M Fine & clear~~  
A M Close mist with light rain (rain in night) P M Overcast - heavy rain  
A M Clouds - partial sunshine - wind (rain in night) P M Cloudy - light showers  
A M Fine & nearly clear P M Fine & clear  
A M Fine - nearly clear P M Fine & clear  
A M Fine - sunshine - some light clouds P M Gloomy - light showers  
A M Overcast - afterwards heavy rain P M Showery  
A M Showery - brisk wind P M Cloudy, but fine  
A M Cloudy - partial sunshine P M Clouds - sunshine - fine  
A M Cloudy - light showers P M Thunder with heavy showers  
A M Nearly clear - brisk wind P M Overcast - brisk wind  
A M Overcast - high wind P M Overcast with hazy showers  
A M Fine - bright sunshine P M Clouds - sunshine - fine  
A M Overcast - wind - light rain P M Wind - light showers

1839	9 A.M.	3 P.M.	Evening	Sher:	Rain in Inches	Direction of the Wind		
Sep:	Baro: mm.	Atmosph. Sher:	Baro: mm.	Atmosph. Sher:	9 A.M.	3 P.M.	Read off at 9 A.M.	9 A.M.
1	27.550	57.2	27.548	59.5	53.4	56.5	.302	S
2	27.709	56.3	27.763	57.6	52.5	53.8	.248	SW
3	27.964	57.5	28.011	56.7	51.3	55.5		W
4	28.342	54.8	28.435	57.2	51.3	56.2		NW
5	28.408	57.2	28.342	60.0	53.7	60.2	.105	S
6	28.498	57.5	28.565	57.8	54.2	57.5		SW
7	28.359	57.5	28.291	55.7	52.8	52.5	.053	S
8	28.336	54.7	28.383	56.2	50.6	54.2	.624	W
9	28.400	56.5	28.409	60.7	56.2	58.8	.336	SW
10	28.518	56.7	28.697	58.5	52.3	56.2	.410	W
11	28.786	55.3	28.594	58.0	50.5	53.0		SW
12	28.443	54.5	28.382	56.0	50.2	55.5	.295	N
13	28.217	52.4	28.182	54.5	46.2	50.2	.035	NW
14	27.964	54.7	27.917	55.3	48.0	51.3	.507	SE
15	27.902	53.5	27.920	58.6	53.8	61.8	1.328	S
16	27.965	54.6	28.000	57.5	49.2	54.2	.254	SE
17	27.492	54.4	28.031	58.2	50.5	53.8	.630	SW
18	28.014	53.7	28.061	54.8	49.5	51.7	.046	W
19	28.086	53.0	28.095	56.7	47.5	53.2	.245	S
20	28.147	53.6	28.186	55.6	49.0	52.7		SW
21	28.253	51.6	28.241	54.6	47.3	52.5		SE
22	28.282	52.0	28.311	55.5	49.7	54.2	.134	W
23	28.417	52.2	28.445	56.2	47.5	53.5		NW
24	28.460	54.3	28.368	56.0	48.6	53.2		W
25	28.195	56.0	28.291	59.2	53.0	54.7	.200	SW
26	28.310	54.3	28.369	56.3	49.5	53.5		W
27	28.413	53.8	28.346	54.5	49.8	52.0		SW
28	28.117	53.5	28.122	55.7	50.0	52.2	.206	SE
29	28.183	53.7	28.257	56.0	48.2	52.4	.412	W
30	28.521	52.0	28.589	54.2	46.5	52.5		W
Mean	28.225	54.6	28.238	56.7	50.4	54.3	6.370	Easterly 5   Westerly 25

## Remarks

- A M Overcast - showers - rain in night P M Heavy Showers  
A M Clouds - partial sunshine - showers P M Overcast - Showery  
A M Clouds - sunshine P M Gloomy - very dark clouds  
A M Nearly clear - brisk wind (Aurora Borealis in the night) P M Showery  
A M Overcast - rain with wind P M Cloudy - showers - wind  
A M Clouds - partial sunshine - light wind P M Cloudy - wind - a few drops from  
A M Overcast - wind - light rain P M Heavy Showers - partial Sunshine  
A M High wind - clouds - partial sunshine (Heavy rain in night) P M Light rain  
A M Overcast - light rain (rain in night) P M Continued light rain with fog  
A M Cloudy - brisk wind P M Clouds - sunshine - fine  
A M Closely overcast with rain P M Overcast - continued rain  
A M Lightly overcast - mild P M Clouds - sunshine - fine  
A M Sunshine - light clouds, (rain in night) Clouds - partial sunshine  
A M Overcast - brisk wind - light rain (Heavy rain in night) P M Heavy rain  
A M High wind with heavy rain through night & yesterday P M Fair & fine  
A M Overcast - wind & rain (rain in night) P M Showery  
A M Clouds - partial Sunshine - wind - showers P M Sunshine - fine  
A M Clouds - partial Sunshine (frost in night) P M Showery  
A M Clouds - sunshine - wind - (rain in night) P M Lightly overcast - wind  
A M Overcast - very light rain P M Overcast  
A M Clouds - Sunshine (frost in night) P M Fine - Ev: Thunder & rain  
A M Fine & clear P M Fine - calm & clear  
A M Fine & clear P M Fine - nearly clear  
A M Cloudy - fine P M Overcast. Evening. Haze with wind  
A M Cloudy with Showers P M Fine - nearly clear - brisk wind  
A M Clouds - Sunshine - light showers P M Clouds - Sunshine  
A M Overcast - light rain P M Overcast - Evening. light rain  
A M Overcast - wind - light rain P M Overcast - rain  
A M Cloudy - partial Sunshine P M Fine - brisk wind - Sunshine  
A M Cloudy (frost in night) P M Cloudy - but calm & fine

1839	9 A.M.	3 P.M.	Exter. Ther.	Rain in Inches	Direction of the Wind			
Oct.	Baro: mm.	Atmosph. ther:	Baro: mm.	Atmosph. ther:	9 A.M.	3 P.M.	Read off at 9 A.M.	9 A.M.
1	28.620	52.2	28.557	56.8	50.0	54.2		S W
2	28.232	52.5	28.265	54.7	45.2	48.0	.550	S W
3	28.495	48.0	28.467	51.5	42.3	47.7	.067	W
4	28.275	50.0	28.411	52.0	43.2	43.0	.423	E
5	28.816	45.2	28.854	49.3	40.4	43.8	.485	N E
6	28.979	46.8	28.979	51.5	39.3	46.2		W
7	28.902	47.6	28.772	51.6	43.5	47.3		W
8	28.607	50.3	28.600	52.2	50.4	49.2		W
9	28.421	52.2	28.389	53.7	49.0	51.4		W
10	28.185	52.3	28.185	56.2	49.3	54.0		S
11	28.302	54.3	28.345	56.0	48.5	56.2		S
12	28.443	55.2	28.568	56.5	51.4	52.8		S E
13	28.655	53.0	28.589	56.8	46.0	57.2	.203	S E
14	28.436	54.5	28.431	56.0	48.5	51.0	.080	S W
15	28.455	52.3	28.455	44.2	46.8	45.2		N W
16	28.529	50.7	28.530	53.8	43.2	48.5	.168	S E S
17	28.715	51.2	28.756	54.7	45.7	49.8		W
18	28.673	48.0	28.605	51.8	40.3	48.3		S W
19	28.644	49.2	28.691	51.5	43.5	47.4	.037	W
20	28.741	50.0	28.737	53.2	42.6	47.2		S W
21	28.692	51.4	28.669	54.3	47.2	51.5		S W
22	28.642	54.0	28.612	55.7	49.4	53.4		S
23	28.665	57.4	28.648	56.8	51.3	51.5	.085	S W
24	28.662	54.5	28.736	55.0	47.2	46.7	.452	S E
25	29.006	50.2	29.045	52.2	44.4	45.5	.340	E
26	29.090	49.0	29.053	51.6	42.5	43.8		N E
27	29.012	45.6	29.016	48.3	39.7	43.2		N
28	29.162	47.8	29.181	50.2	38.5	41.5	.240	N E
29	29.183	43.7	29.176	57.0	38.0	41.4		E
30	29.088	48.2	29.042	50.5	41.2	42.5		E
31	28.863	48.7	28.820	57.3	41.3	42.5	.265	S E
Mean	28.683	50.5	28.683	53.2	44.8	47.9	3.395	Eastly 73 Westly 18

## Remarks

- All Cloudy - some sunshine AM Dark clouds - partial sunshine - fine  
AM Overcast - rain (heavy rain in night) PM Clouds - partial sunshine  
AM Nearly clear - (frost in night) PM Overcast - shower & sleet  
AM Heavy rain with haze PM Continued rain with mist or haze  
All Cloudy - very bleak PM Clouds - sunshine  
AM Little clear - (very heavy frost in night) PM Fine - clouds - sunshine  
AM Fine - nearly clear PM Clouds - Sunshine - wind  
AM Lightly overcast - afterwards light showers PM Cloudy, but fine  
AM Cloudy - fine PM Clouds - partial sunshine - mild & fine  
AM Lightly overcast PM Clouds - partial sunshine - wind  
AM Mist - light wind AM Fine - clouds - sunshine  
AM Mist with light rain PM Cloudy - brisk wind  
AM Overcast with light rain (aurora borealis in night) PM Fine & clear  
AM Overcast - wind - a few drops of rain PM Overcast - light rain  
AM Overcast - light rain PM Overcast - continued rain  
AM Dark clouds - partial sunshine AM Clouds - brisk wind  
AM Fine - calm - partial sunshine PM Fine - nearly clear  
AM Misty - (frost in night) PM Clouds - sunshine - fine  
AM Fine & calm - light clouds - sunshine PM Fine - nearly clear  
AM Fine & clear PM Fine - nearly clear  
AM Light clouds - fine PM Light clouds - partial sunshine - wind  
AM Overcast - brisk wind PM Overcast - wind  
AM Overcast - light rain (rain in night) PM Mist on hills - light rain - wind  
AM Overcast - wind & rain (heavy rain in night) PM Continued rain - wind  
AM Overcast - mist on hills (rain in night) PM Overcast - light showers  
AM Overcast PM Overcast & showery  
AM Overcast - hail showers PM Overcast  
AM Fine - nearly clear (frost in night) afterwards, showers PM Hail showers  
AM Nearly clear (frost in night) PM Showery  
AM Overcast - showers PM Overcast - Showers  
AM Cloudy - brisk wind - very light rain PM Gloomy - bleak

1839	9 A.M.	3 P.M.	Exter. Ther.	Rain in Inches	Direction of the Wind			
No.	Baro: mean:	Attached Ther:	Baro: mean:	Attached Ther:	9 A.M.	3 P.M.	Read off al. g. A.M.	9 A.M.
1	28.665	48.7	28.606	49.5	38.8	40.3		S E
2	28.510	47.5	28.492	49.5	38.5	40.5		E
3	28.357	46.8	28.388	49.5	39.3	44.2	.820	S E
4	28.363	48.2	28.275	50.2	42.3	45.0		S E
5	28.231	49.5	28.331	50.0	40.5	41.6	1.261	N E
6	28.421	47.3	28.423	48.2	39.6	41.2	.160	S W
7	28.412	49.0	28.403	51.5	40.7	44.2		S W
8	28.340	49.5	28.290	50.4	44.0	45.4		S E
9	28.196	49.2	28.096	50.7	44.3	45.5		S
10	28.055	50.0	28.014	51.2	44.3	47.8	.256	S W
11	27.834	49.2	27.868	50.7	43.5	47.2	.132	W
12	28.072	47.3	28.117	50.2	37.3	48.3		W
13	28.437	47.4	28.468	49.6	40.5	45.5		W
14	28.501	47.0	28.489	47.8	39.4	42.7		S
15	28.618	49.5	28.450	51.5	45.3	47.6	.093	S
16	28.375	50.2	28.376	50.6	46.5	47.8	.145	S W
17	28.539	50.6	28.593	51.8	43.7	46.7	.112	W
18	28.565	50.7	28.550	53.4	45.5	48.2		S
19	28.458	50.2	28.380	52.8	43.2	46.0		W
20	28.611	48.0	28.623	50.0	39.3	41.7		W
21	28.203	47.2	28.376	49.5	35.8	38.8	.253	S E
22	28.685	48.0	28.785	48.4	37.0	39.6	.170	N NW
23	28.817	41.2	28.765	47.0	33.8	38.2		W
24	28.582	48.8	28.385	47.2	39.7	43.0	.402	W
25	28.130	49.0	27.857	60.3	46.2	47.2	.470	N NW
26	27.973	45.2	27.989	47.5	34.3	35.8	.357	S E
27	28.037	42.0	28.082	45.0	31.5	31.7		N
28	28.186	42.5	28.235	44.3	29.3	29.6		N W
29	28.239	42.3	28.113	44.5	34.7	36.2	.674	S E
30	27.981	45.0	28.192	46.2	39.3	40.3	1.542	S
Mean	28.342	47.4	28.337	49.6	39.9	42.4	6847	Easterly 11    Westerly 19

## Remarks

- A M Overcast - wind - very light rain P M Overcast - very bleak  
A M Overcast - very bleak P M Overcast - light rain  
A M Close mist - (rain in night) P M Close mist - calm  
A M Mist with light rain P M Continued light rain with haze  
A M Overcast (heavy rain in night) P M Overcast - light rain  
A M Overcast P M Overcast Calm - tolerably fine  
A M Overcast - mist on hills P M Overcast - fine & calm  
A M Close mist - haze - wind P M Overcast - wind - very light rain  
A M Overcast - brisk wind P M Overcast - wind  
A M Overcast - afterwards sunshine P M Cloudy - but fine & calm  
A M Overcast - (rain in night) P M Cloudy - light showers  
A M Fine & clear P M Cloudy - fine  
A M Cloudy - calm & fine P M Overcast - calm & fine  
A M Overcast - light rain P M Cloudy - light showers  
A M Fine - light clouds - sunshine P M Mist with light rain  
A M Overcast - (rain in night) - light rain P M Showery  
A M Lightly overcast P M Light clouds - sunshine - fine  
A M Haze or very light rain P M Cloudy - but very fine  
A M Clouds - brisk wind - fine P M Overcast - wind - very light rain  
A M Cloudy - brisk wind P M Fine & clear - light wind  
A M Overcast - wind with light rain - also haze P M Continued rain  
A M Close mist - calm - afterwards rain P M Very gloomy  
A M Some very dark clouds - partial sunshine (haar frost) P M Showery  
A M Heavy rain - very gloomy P M Continued rain & wind  
A M Rain with fog (rain in night) P M Heavy rain  
A M Overcast - calm - very light snow P M Continued light snow  
A M Overcast - snow in night, & yet snow P M Continued heavy snow  
A M Overcast - mist - (snow in night) P M Nearly clear - calm frost  
A M Overcast - wind - sleet P M Wind with continued sleet & rain  
A M Overcast - very gloomy (heavy rain in night) P M Overcast - fair

Date	9 A.M.		3 P.M.		Evening Therm.		Rain in Inches	Direction of the Wind
	Baro: uncorr.	Attached therm:	Baro: corr.	Attached therm:	9 A.M.	3 P.M.		
1	28.297	42.6	28.339	45.0	30.4	34.3		S E
2	28.525	41.8	28.581	43.8	27.0	32.2		S E
3	28.650	41.7	28.648	44.2	33.8	34.0		S E
4	28.534	40.8	28.521	44.0	33.7	35.3		S E
5	28.643	40.0	28.682	42.7	28.8	36.2		N W
6	28.917	40.5	28.927	43.0	28.2	32.4		S E
7	28.848	40.2	28.839	42.5	32.3	32.5		N W
8	28.750	39.7	28.713	40.8	30.2	31.3		S S E
9	28.563	41.6	28.494	42.2	31.8	33.8		S E
10	28.283	41.5	28.241	42.4	32.0	33.7		S E
11	28.225	40.3	28.224	40.5	31.2	34.6		S E
12	27.974	41.3	27.928	43.2	36.0	38.8	1.260	S
13	27.923	44.0	27.907	45.0	36.8	36.0	1.613	S E
14	27.859	43.8	27.887	47.2	36.5	38.7	1.530	S E
15	28.176	43.5	28.200	46.8	36.8	40.2	1.046	N W
16	28.393	43.5	28.539	46.5	34.7	38.8		S E
17	28.693	44.8	28.572	45.6	36.4	34.0		S E
18	28.138	40.7	28.083	42.0	30.5	33.2		S E
19	27.983	41.5	27.961	44.3	38.0	40.6		S W
20	27.836	46.7	27.832	48.5	44.2	46.2		S W
21	27.961	47.2	28.017	49.2	43.5	45.5	1.485	S W W
22	28.097	45.3	28.028	47.3	36.6	41.0		W ea
23	27.950	46.3	27.985	48.7	38.5	42.4	1.970	W
24	27.587	48.2	27.678	49.5	45.8	41.6	1.286	S W
25	27.842	46.7	27.966	47.2	34.7	35.3	1.385	W
26	28.261	42.0	28.239	45.0	28.3	32.8	1.312	S E
27	28.039	40.7	28.091	44.2	33.2	32.0		S
28	28.250	41.6	28.375	42.0	30.0	28.3		W
29	28.751	40.4	28.852	41.8	30.6	32.0		W
30	28.884	39.2	28.732	40.2	28.5	32.7		S
31	28.287	42.5	28.123	42.7	40.2	39.3	1.223	S
mean	28.294	42.6	28.297	44.4	34.0	36.1	5.110	Easterly 15 Nortly 16

## Remarks

- A.M. Nearly clear - calm - hoar frost P.M. Fine - calm & clear  
A.M. Fine, clear frost P.M. Fine - calm & clear  
A.M. Overcast - mist on hills - sleet P.M. continued snow  
A.M. Dense fog - snow P.M. Misty - light snow  
A.M. Sharp frost - calm & clear P.M. Overcast - snow showers  
A.M. Fine clear frost P.M. Fine & calm - nearly clear  
A.M. Cloudy - brisk wind P.M. Cloudy - light wind - bleak  
A.M. Overcast - wind - very bleak P.M. Overcast wind, very bleak  
A.M. Overcast - light snow P.M. Mist with light snow  
A.M. Overcast - calm (light snow in night) P.M. Overcast - calm  
A.M. Overcast - mist on hills P.M. Calm mist - somewhat like them  
A.M. Close mist (heavy rain in night) P.M. Continued rain with wind  
A.M. Overcast (heavy rain in night) P.M. Close mist or haze  
A.M. Overcast - rain (rain in night) P.M. Overcast - rain  
A.M. Overcast - calm & mild P.M. Fine - calm & nearly clear  
A.M. Lightly overcast - calm P.M. Fine - lightly overcast  
A.M. Lightly overcast - fine P.M. Overcast - wind  
A.M. Overcast - very high wind - extremely bleak P.M. Overcast - bleak  
A.M. Lightly overcast - calm P.M. Very - mild & calm  
A.M. very light rain P.M. Overcast - light wind  
A.M. Overcast - rain P.M. Showery - mild  
A.M. Fine & nearly clear P.M. Overcast - fine Evening - Rain  
A.M. Fine - nearly clear (heavy rain in night) P.M. Cloudy - showers  
A.M. Heavy rain with wind P.M. Showers - wind  
A.M. Sleet & snow with wind P.M. Cloudy - bleak  
A.M. Nearly clear - calm P.M. Lightly overcast - fine  
A.M. Overcast - (a little snow in night) P.M. Cloudy - sunshine - calm  
A.M. Lightly overcast - hail Showers P.M. Clear frost  
A.M. Nearly clear - brisk wind P.M. Fine clear frost  
A.M. Lightly overcast - wind P.M. Overcast - brisk wind  
A.M. Overcast - mist on hills - wind P.M. Showers - wind.

## Some Results of the preceding Journal

Mean Temperature at Allenteads in 1839  
taken at 9 A.M & 3 P.M of each day } 44.8 Degrees

Mean Barometer when corrected and  
reduced to the temperature of 32°. } 28.401 Inches

Quantity of Rain - - - 55.710 Inches

Direction of the Wind . . . . .  
- - - - - } 136 Days Easterly  
- - - - - } 229 Do Westerly

Quantity of Rain at Allenteads in January 1840 - - 8,359 Inches  
- - - - - February - - - 6,518 Do.

Note. The Barometer from which the above observations  
were registered was made by Newman of Regent Street, London, &  
compared & found to traverse exactly with the Standard  
Barometer at the Apartments of the Royal Society -

I

The writer would now take the liberty of stating a few particulars, not comprised in the Remarks accompanying the Monthly Register, which have from time to time come under ~~my~~ observation, & which form in some degree exceptions, rather than general rules.

And first, it is a pretty generally received opinion that a great depression of the Barometer is accompanied by a heavy fall of rain, but this does not appear to be invariably the case, at least, where this journal is kept. It sometimes happens that a sudden & very great fall of the Mercury takes place on a very fine clear day, at other ~~other~~ times during, or preceding a high wind - a fact, it may be said, sufficiently known: But what the writer would beg leave to observe is this - that the Barometer, which occasionally sinks here as low as 27 inches, may be too low for rain! When such a depression, however, does

occur, heavy rain is sure to ensue, but not perhaps till the mercury has risen an inch or more, & then it will come on in torrents, the mercury all the while rapidly rising though considerably above the average range?

Again, sometimes when the weather has been very fine & settled, & the Barometer high, the wind will suddenly bear round from west to east, bringing in a haze or mist much resembling what is often designated a Sea-fog, which is speedily followed by a continued rain without any indication of change by the Barometer - nay, on the contrary, it will often on these occasions still continue to rise.

A similar anomaly occasionally occurs during an intense frost in winter, but let it understand <sup>the observer is</sup> speaking only of the climate where he resides.

- The Barometer will be exceedingly low for many days together, but on the approach of a thaw it will begin to rise, & it is no uncommon circumstance to hear people then remarking, "we are going to have rain, 'the glass is rising!'"

Though the mean temperature at a place elevated 1400 feet above the level of the sea, Allenheads, is about  $6^{\circ}$  lower than in many of the ~~unoccupied~~ districts of England, yet in a severe frost when the sky is perfectly cloudless, it is many degrees colder in the plains & valleys below. For instance, on the 25<sup>th</sup> of January 1838 (now frequently called "Murphy's day!") when in many places the Thermometer was below zero, at Allenheads it was never lower than at  $10^{\circ}$  alone it.

Another general opinion obtains that very high winds prevail most in situations of great elevation. A

residence of twenty years among the mountains  
has tended to convince <sup>me</sup> the writer of these remarks,  
that storms resembling hurricanes are of  
more frequent occurrence in the lowlands,  
as not a single tree to his knowledge has been  
rooted up, nor a house unroofed by the wind  
in <sup>my</sup> immediate neighbourhood during the  
above-mentioned period. Even on the 7<sup>th</sup> of  
January 1839, when the northern parts of  
England were visited by a hurricane  
which produced so much devastation  
amongst buildings, statelyards, plantations,  
sc. in all situations of considerably  
less elevation, in every direction around  
Allenheads, yet here, though the place  
abounds with large Sycamore & lime-trees,  
which are generally the first to be affected  
in a storm, none were either broken or  
blown down, nor was there the least

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damage sustained in any other respect —  
a fact which may perhaps in some measure  
be accounted for from the circumstance  
of the gravity or density of the air or atmosphere becoming gradually  
diminished the higher we ascend, so  
that in a storm the force of the wind  
in such situations may be less overbearing  
in its effects, though it sweep over  
the country with equal velocity.

The writer has now to record  
what he considers a very singular  
phenomenon which he witnessed in  
the company of other individuals on  
the 29<sup>th</sup> of July 1838 — it was a rainbow,  
or part of a bow, for it did not form  
an entire arch, appearing not as is  
usually the case opposite the sun, or

on the contrary side of the heavens, but  
comparatively near it, that is, about  
15 degrees west of the Sun. It was  
at 5 o'clock in the afternoon, & the  
part of the bow appearing seemed  
about due west, extending from the  
horizon upwards, probably from  
15 to 20 degrees. There had been  
a thunder-storm in the earlier part of  
the day, & the atmosphere was then  
loaded with very dark clouds, but  
not without occasional gleams of  
sunshine. What is usually designated  
a mock-sun was also seen at the  
same time. These phenomena were  
observed in the parish of Stanhope  
in the County of Durham. —

The writer is inclined to think that

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Some of the Meteorological Phenomena here alluded  
to, have not received that attention from sci-  
entific gentlemen which their importance  
deserves - at least, no sufficiently satisfa-  
tory explanation of them has come  
within the very limited course of  
his reading.

W.W.

Allenheads }  
March 16<sup>th</sup>, 1840 }