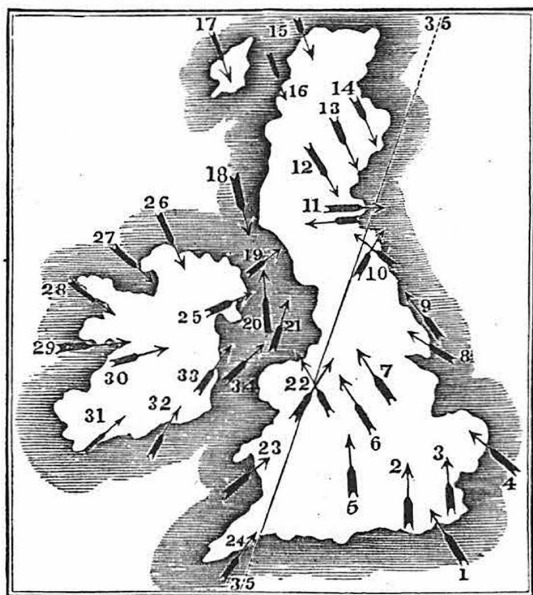


OBSERVATIONS MADE AT SEVERAL OF THE NORTHERN LIGHTHOUSES, DURING THE STORM OF 7TH JANUARY, 1839,
COMMUNICATED TO THE ROYAL SOCIETY BY ROBERT STEVENSON, CIVIL ENGINEER.

Name of Lighthouse.	N. Lat.	W. Long.	Lowest state of Barom.	Time when lowest state occurred.	Time the wind was strongest.	Direction of the wind.	Variation of wind during the Storm.	Time when lull or abatement was observed.	Storm commenced.	Storm ended.
Inchkeith.	deg. m. 56 2	deg. m. 3 8	27.50	5, a. m., 7th	12, m., 7th	W.	S. W. to N.	None observed.	1, a. m., 7th.	4, p. m., 7th.
Isle of May.	56 11	2 33	27.64	9, " "	1, a. m., 7th	S. W. to W.	S. W. to W. and N. W.	None observed.	6, p. m., 6th.	morn. of 6th.
Girdleness.	57 8	2 3	27.72	9, " "	1, p. m., "	N. W.	S. to N. W. and N.	9, a. m., 7th.	9, p. m., 6th.	11, a. m., 8th.
Buchanness.	57 28	1 48	27.40	6, " "	5, p. m., and 5, a. m., 8th	N. W.	S. to N. W.	9, p. m., till 12, 7th.	10, a. m., 7th.	12, m., 8th.
Kinnaird Head	57 42	2 1	27.44	8.30, " "	4, p. m., 7th, and 5, a. m., 8th	N. N. W.	to N.	12, night, 7th.	1, p. m., 7th.	morn. of 8th.
Tarbetness.	57 51	3 48	27.53	4, " "	12, m., 7th, 6.30, a. m., 8th	N. N. W.	No variation.	None observed.	10.30, a. m., 7th.	8.30, a. m., 8th.
Pentland Skerries.	58 41	2 55	27.60	4, " "	6 to 8, p. m., 7th	N. W.	No variation.	None observed.	12, m., 7th.	2, p. m., 8th.
Start Point.	59 17	2 23	27.55	9, " "	3 to 6, a. m., 8th	N. W.	S. to N. W.	{ 5 to 6, p. m., 6th, } { 8, a. m., till 11, 7th }	3, p. m., 6th.	11.30, a. m., 8th.
Sumburgh Head.	59 51	1 16	27.25	2, p. m., "	{ 3 and 6, a. m., & } 3, p. m., 8th	N.	S. W. to N. W. and N.	9, a. m., till 1, p. m., 8th	2, p. m., 7th.	8, a. m., 9th.
Dunnet Head.	58 40	3 21	27.35	7, a. m., "	3, a. m., 8th	W.	N. N. W.	10, p. m., 7th.	12, m., 7th.	daylight of 9th.
Cape Wrath.	58 37	5 0	27.32	12, night, 6th	2 to 6, p. m., 7th	W. N. W.	W. N. W. to N. N. W.	Frequent.	10, a. m., 7th.	9, p. m., 7th.
Island Glass.	57 52	6 33	27.76	5, p. m., 6th	6, a. m., 7th	W.	W. to N. W.	None observed.	11, p. m., 6th.	11, a. m., 7th.
Barra Head.	56 48	7 38	27.40	9, p. m., 6th	1 to 2, p. m., 6th	S. S. E.	N. W.	3, p. m., 6th.	morn. of 6th.	afternoon of 7th.
Lismore.	58 30	5 38	27.55	4, a. m., 7th	9.30, a. m., 7th	N. W.	to N.	None observed.	8, a. m., 7th.	evening of 8th.
Rhins of Islay.	55 41	6 29	27.44	3, " "	6, a. m., 7th	N. W.	to W. and N. W.	4.30, a. m., 7th.	5.30, a. m., 7th.	12, m., 7th.
Mull of Kintyre.	55 19	5 49	not gvn.	4, " "	6, a. m., 7th	N. W.	S. to N. W.	None observed.	11, p. m., 6th.	9, a. m., 7th.
Pladda.	55 26	5 7	27.56	4, p. m., 7th	6 to 8, p. m., 7th	S.	S. to W.	3.30, a. m., 7th.	3, a. m., 7th.	2, a. m., 8th.
Corsewall.	55 1	5 9	28.15	5, a. m., "	{ 5, a. m., till day- } break 7th	S. W. to W.	W. to N. W.	None observed.	12, night, 6th.	2, p. m., 7th.
Portpatrick.			28.15	3, a. m., "	3, a. m., to 8, a. m. 7th	S. W.	S. W. to W. N. W.	None observed.	11.30, p. m., 6th.	5, p. m., 7th.
Mull of Galloway.	54 38	4 51	27.44	1.45, a. m., 7th	1, a. m., 7th	S. W.	S. to S. W. and N. W.	None observed.	12.30, a. m., 7th.	3, a. m., 7th.
Point of Ayre.	54 25	4 22	27.89	4, a. m., 7th	3.30, a. m., 7th	W.	W. to N. W.	9 hours at daylight.	1.15, a. m., 7th.	3, p. m., 7th.
Calf of Man low.	54 3	4 49	27.50	2.30, a. m., 7th	6.45, a. m., 7th	N. W.	S. S. W. to N. W.	None observed.	12.30, a. m., 7th.	forenoon of 8th
Bell Rock.	56 26	9 23	27.55	6, a. m., 7th	10, a. m. to 1, p. m. 7th	S. to S. S. W.	W. and N. W.	7 to 8, a. m., 7th.	evening of 6th.	

it was increasing to a hurricane from the west; on the south west of Ireland, from the south west; and on the north west of Ireland, from the north of west and north west.

Chart, showing the course of the Wind in Great Britain and Ireland, on the night of the 6th of January, 1839, between 10 and 12 o'clock.



No.

1. Romney. Strong S. E. at 8, P. M.
2. London. Southward all night; violent.
3. Thwaite. Strong S. S. E. from 10 to 12. (O. Whistlercraft.)
4. Southwold. The *Susanna* driven on shore by a S. E. wind at 8, P. M.
5. Birmingham. Wind east of south, strong till 1, A. M., then strong west of south. (Osler's Anemometric.)
6. Manchester. S. E. till midnight, very strong. (Narrative, p. 24.)
7. Leeds. S. E. till midnight, very strong, then S. W. (Leeds Intelligencer of 12th.)
8. Bridlington. Got round to S. E. in the night, and continued so blowing a gale till midnight.
9. Whitby. S. by E., high wind at 10½. (Henry Belcher.)
10. Berwick. Changed from east of south to S. W. at 10, P. M.
11. Edinburgh. Changed in the night from east, strong and cold, to the west. (Edinburgh Advertiser of Jan. 8.)
12. Dundee. On the night of the 6th and day of 7th, N. W. (S. M. G. of 10th.)*
13. Montrose. On night of 6th and day of 7th, hurricane. W. N. W.
14. Aberdeen. N. W. and N. N. W. (G. Innes.)
15. Cape Wrath. All 6th and 7th, N. W.
16. Scowrie. Evening of 6th, till 12, N. W. (G. Ross.)
17. Isle of Glass. At 11, P. M., N. W., Lighthouse.
18. Lismore. On night of 6th, N. W. to N. Lighthouse.
19. Corsewell. S. W. from 6, P. M. till 12. Lighthouse.
20. Mull of Galloway. S. till 1½, A. M. of 7th. Lighthouse.

* S. M. G. means Shipping and Mercantile Gazette.

Observations made at the Northern Lighthouses during the Storm of January 7th, 1839.

At Lismore, at four, A. M., of 7th, wind gentle, S. W.; barometer lowest. At eight, wind, N. W., tremendous gale,

At Isle of Glass, the storm began at about 11, P. M. of 6th, and varied with each shower, from W. to N. W.

At Dunnet Head, snow all day on the 5th, and at 10, P. M., of the 6th, it began to snow again and rain till about 1, A. M., when it faired up, and became quiet. At 7, A. M., of 7th, barometer 27.35, and stood so till evening, when it began to rise at 9, P. M., 27.95. At 7, A. M. of 7th, light air, S. E., and cloudy. At 8, a calm, at 9, light breeze N., or N. N. W., but soon increased to a gale, and by 12, noon, it blew a heavy gale, and veered N. W., continuing the same till about 10, P. M., when it abated a little. About 12, at night, barometer 27.98, but soon began to fall again, and at 3, A. M., of 8th, was 27.65, and at that time wind veered about W., a complete hurricane, with thick snow, continuing till day light. Then abated a little, but blew a gale all the 8th, and most of the 9th, N. W.

At Sumburghhead, snow and sleet at 2, P. M., of 7th. At 9, heavy showers of snow and hail; barometer 27.84.

At Start Point, wind S. W., on 6th, with hail at times, till about two, P. M., it blew a gale, and by three tremendous, but died away in the night. And at 8, A. M., of 7th, nearly calm. It continued calm till between 11 and 12, when it began to blow N. W., and continued a most tremendous gale for 24 hours.

At Pentland Skerries, the rain cleared off at 2, A. M., of 7th, very warm, 48°, at 4, A. M.; at 9, A. M., not a breath of air; smoke going straight up. At eleven, A. M., wind went round to N. W., and at noon, the storm was strong. Snow. Between 6 and 8, P. M., storm most violent, but still worse on the 8th, at 3 to 6, A. M.

At Kinnard Head, not much wind till 1, P. M. of 7th, W. N. W., violent at 3 and 4, continuing till midnight; then cleared and abated, but increased again till 5 or 6, A. M., when it was as strong as before; then abated a little, but blew a gale till the evening of the 9th.

At the Calf of Man, the wind began to shift from S. S. W., at 9, P. M., and at 5, A. M., it had got to W.; it was a gradual shifting; it was S. E., on the 6th, hour not mentioned.

At Cape Wrath, the wind is marked N. W., on the 6th, gale and snow; on the 7th, N. W. storm and snow.

B.

Documents of the Storm of the 17th of August, 1840.

[See Article 173.]

Memorandum of the direction of the wind at Leeds, during the 16th, 17th, and 18th of August, 1840. By James S. Marshall.

16th. Wind S. W., brisk breeze; fine day; a number of cumuli of considerable height. About half past 4, P. M., whilst observing the cu-