

30° W. the especially quiet periods were 8th to 12th, 18th to 20th, and 27th to 29th.

A small number of vessels noted strong gales (force 9) about the middle of the month, and one ship near mid-ocean encountered a whole gale (force 10) on the 17th.

In the eastern North Atlantic a storm seems to have formed about the 1st, and during the forenoon of the 2d was indicated as having attained considerable strength, while central a short distance to west-southwestward of the western Azores. The course was apparently to south-eastward during the next 3 days, then from 5th to 7th it returned northward and on the 7th was central over the island of Fayal. Afterward the movement was eastward, with apparently less intensity, and on the 11th the center was close to northern Portugal.

Much information about this storm has been received from Lt. Col. J. Agostinho, Director of the Meteorological Service of the Azores, who reports that gusts of 100 kilometers (62 miles) per hour or more were noted locally on the islands.

*Waterspout on Gulf of Mexico.*—On November 5 a waterspout was observed over the Gulf of Mexico. The following is a ship's account of it:

In latitude 27°00' N., longitude 88°45' W., passed a large waterspout about 1 mile off, in vicinity of a rain squall. The spout resembled a big lawn sprinkler at base; then to a large column in the sky to the clouds. Air temperature 80° F.; wind variable, force 4 to 5, then to west, 3; barometer dropped 0.08 inch during squall (from 29.90 to 29.82, corrected readings).

*Fog.*—As is usual in the case of a fall month, comparatively little fog has been reported. Indeed, there are but 6 of the 5°-squares which include North Atlantic waters that are known to have had any fog, and only one of these has furnished reports for more than a single day. This leading square is the one from 40° to 45° N., 70° to 75° W., and even there only 3 days, well scattered in time, brought fog.

The first report since late April of fog over the Gulf of Mexico states that it was noted on the 16th, over the northwestern portion.

OCEAN GALES AND STORMS, NOVEMBER 1941

Vessel	Position at time of lowest barometer		Gale began November	Time of lowest barometer, November	Gale ended November	Lowest barometer	Direction of wind when gale began	Direction and force of wind at time of lowest barometer	Direction of wind when gale ended	Direction and highest force of wind	Shifts of wind near time of lowest barometer
	Latitude	Longitude									
<b>NORTH ATLANTIC OCEAN</b>											
A vessel	38 30N.	48 18W.	2	2p, 1	2	1,004.4	NNW	NNE, 4	NW	NNW, 8	NNE-NNW.
Do.	44 30N.	63 00W.	2	11p, 2	3	1,001.7	SW	WSW, 8	WSW	SSE, 8	SSE-WSW.
Do.	33 59N.	74 28W.	6	12m, 6	7	1,006.8	SW	SSW, 8	SW	SSE, 8	None.
Do.	32 39N.	73 58W.	6	3a, 7	7	1,004.7	SW	WSW, 9	W	WSW, 9	SW-W.
Do.	38 00N.	72 00W.	7	4a, 7	8	1,001.4	SW	S, 6	WSW	WSW, 8	SW-WSW.
Do.	36 00N.	68 12W.	7	11p, 7	7	1,007.8	SSW	SW, 7	SW	SSW, 8	SW-WSW.
Do.	38 06N.	59 30W.	12	1p, 12	13	1,007.5	NW	WNW, 7	WNW	NW, 8	WNW-NNW.
Do.	27 48N.	87 26W.	13	12p, 13	14	1,016.3	ENE	ENE, 7	ENE	E, 9	N-E.
Do.	33 36N.	74 12W.	16	4a, 16	17	1,003.1	NNW	WNW, 8	NNE	N, 9	NNW-NNW-N.
Do.	32 54N.	64 00W.	16	8a, 16	16	1,008.5	SE	SSW, 7	SSW	SE, 8	SE-SSW.
Do.	39 36N.	66 18W.	17	4p, 16	17	1,000.0	WNW	NW, 8	WNW	WNW, 8	W-NW.
Do.	37 48N.	60 12W.	16	8p, 16	16	1,000.7	S	S, 9	SSW	S, 9	SSE-SSW.
Do.	38 06N.	56 12W.	16	2a, 17	17	1,001.4	S	S, 8	S	S, 8	S-NW.
Do.	38 24N.	48 24W.	17	2p, 17	17	1,008.5	S	SSW, 10	W	SSW, 10	S-W.
Do.	43 20N.	39 29W.	17	12p, 17	18	1,002.7	S	SW, 8	W	SW, 8	S-W.
Do.	40 50N.	16 55W.	21	5p, 21	22	1,005.8	SW	SW, 6	W	SW, 8	None.
Do.	34 18N.	75 30W.	24	1p, 24	24	1,019.6	N	N, 8	N	N, 8	None.
Do.	31 24N.	67 42W.	25	4p, 25	26	1,014.9	NE	ENE, 7	NW	ENE, 8	None.
Do.	38 54N.	59 54W.	30	4p, 30	30	1,010.8	SW	W, 7	WSW	SW, 8	WSW-NNW.
<b>NORTH PACIFIC OCEAN</b>											
A vessel	53 30N.	161 30W.	1	6a, 2	3	974.9	E	ENE, 10	E	ENE, 10	E-ENE.
Do.	15 30N.	108 48W.	2	12m, 2	3	1,000.7	NNE	SE, 9	S	SE, 9	NNE-SSE.
Do.	56 30N.	167 18W.	2	2p, 2	2	982.1	S	E, 9	SE	E, 9	E.
Do.	46 54N.	128 24W.	2	10p, 2	4	998.3	S	SSE, 9	SW	SSE, 9	SSE-SW.
Do.	49 00N.	126 45W.	2	12p, 2	3	993.6	SE	SE, 5	SE	SE, 8	None.
Do.	45 12N.	124 48W.	2	4a, 3	3	1,002.4	SE	SSW, 7	SSW	S, 9	None.
Do.	53 00N.	134 54W.	3	2a, 3	3	986.8	SW	ESE, 6	SW	SW, 8	ESE-S.
Do.	07 37N.	89 07W.	3	6p, 3	3	1,004.4	NNE	E, 9	SSE	E, 9	ENE-SSE.
Do.	16 60N.	113 30W.	4	4a, 4	4	1,002.7	NNE	ENE, 7	NE	NE, 11	NE-E.
Do.	56 58N.	139 11W.	4	3p, 4	4	977.7	NE	NE, 11	NE	NE, 11	None.
Do.	39 12N.	141 00W.	6	9p, 6	6	1,010.8	SSE	SSE, 7	SW	SE, 8	SE-S.
Do.	58 51N.	141 50W.	6	10p, 6	7	1,002.0	S	SW, 9	SW	SW, 10	SW-WSW.
Do.	33 54N.	147 30W.	8	2p, 8	9	1,007.1	SW	SW, 9	W	WSW, 11	SW-WSW.
Do.	35 03N.	145 33W.	8	4p, 8	9	1,007.1	N	N, 6	NNW	NNW, 9	N-W.
Do.	15 45N.	93 43W.	9	4a, 9	9	1,011.5	SW	SW, 8	WSW	SW, 8	SW-WSW.
Do.	38 36N.	140 42W.	9	9a, 9	9	1,000.0	NNE	NNW, 8	NNW	NNW, 9	None.
Do.	46 39N.	148 32W.	8	4p, 9	10	1,003.4	SE	SE, 7	SSE	SE, 8	None.
Do.	55 20N.	131 38W.	9	8a, 10	10	992.2	NW	NW, 8	NW	NW, 8	None.
Do.	50 36N.	141 30W.	9	4p, 10	10	1,003.7	NE	NE, 8	NE	NE, 8	None.
Do.	12 36N.	149 36W.	10	4p, 10	11	1,003.7	SE	SE, 8	SE	ESE, 10	SE-SW.
Do.	49 15N.	131 12W.	12	11p, 12	13	999.2	SE	WNW, 4	NNE	N, 8	WNW-N.
Do.	14 12N.	98 42W.	13	3a, 13	13	1,010.8	NNW	NE, 8	NE	NE, 8	NE-N.
Do.	53 36N.	144 30W.	13	3a, 13	13	982.4	NE	NE, 8	SW	S, 10	SSE-S.
Do.	43 06N.	124 48W.	13	10a, 13	13	1,002.7	SE	W, 5	NW	NW, 8	W-NW.
Do.	54 06N.	152 06W.	13	8a, 14	15	992.9	W	W, 5	SW	WSW, 11	SSW-WSW-SW.
Do.	54 00N.	162 06W.	16	1a, 16	17	979.7	SW	WSW, 9	SW	WSW, 11	SW.
Do.	56 36N.	147 36W.	25	8a, 24	25	994.2	W	W, 3	WNW	WNW, 9	NW-W.
Do.	14 47N.	95 16W.	24	4p, 24	24	1,008.8	N	NNE, 7	NE	NNE, 10	None.
Do.	15 24N.	93 42W.	25	6a, 26	26	1,010.6	NNE	N, 9	NW	NW, 10	None.
Do.	55 42N.	134 54W.	25	4a, 25	25	998.6	W	WNW, 5	NNW	W, 8	WNW-W.
Do.	14 24N.	93 18W.	26	6p, 26	27	1,005.4	NNW	NW, 2	NE	N, 9	NW-NNW.
Do.	26 42N.	143 00W.	27	2a, 28	28	1,006.4	SW	W, 8	WNW	WNW, 8	W-WNW.
Do.	36 16N.	127 57W.	28	4p, 28	28	995.6	SSE	SSE, 8	SSE	SSE, 8	None.
Do.	43 12N.	126 06W.	27	1a, 28	28	997.0	SE	SSE, 10	SSE	SSE, 10	None.
Do.	59 24N.	149 54W.	28	2a, 29	28	988.8	NNW	NNE, 8	NNW	NNW, 8	NNW-NNE.
Do.	43 30N.	127 00W.	28	4a, 29	29	992.2	SSE	SSE, 9	SSW	SSE, 9	None.
Do.	23 12N.	149 52W.	30	4a, 30	30	1,009.5	WSW	WSW, 7	W	NW, 8	WSW-NNW.
Do.	32 10N.	149 30W.	30	2p, 30	31	1,003.4	N	NNW, 8	NNW	NNW, 9	NNW-NNE.

1 Position approximate.

2 Barometer uncorrected.

3 December.