

OCEAN GALES AND STORMS, JANUARY 1941

Vessel	Voyage		Position at time of lowest barometer		Gale began January	Time of lowest barometer January	Gale ended January	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
	From—	To—	Latitude	Longitude									
NORTH ATLANTIC OCEAN													
Standard, Pan. S. S.	New York	Caripito	34 54 N.	72 15 W.	3	10p, 3	4	1,002.7	W	W, 9	NW	W, 9	W-N.
Mormaclark, Am. M. S.	Montevideo	New York	31 30 N.	61 50 W.	5	9a, 4	6	1,006.8	W	SW, 6	NW	WNW, 8	
Spencer, U. S. C. G.	On Station No. 1		38 45 N.	58 50 W.	4	3p, 4	7	992.9	SE	SSW, 10	NNW	W, 11	SE-WSW.
Texas, Am. S. S.	Baltimore	Port Arthur	26 36 N.	87 00 W.	5	6p, 5	5	1,012.2	N	N, 11	NE	NNE, 12	W-N-NE.
Bibb, U. S. C. G.	On Station No. 2		38 30 N.	45 54 W.	5	2p, 6	7	999.0	SSE	SW, 7	N	S, 10	SW-W.
Aldecoa, Span. S. S.	Cabedello, Brazil	Gibraltar	33 09 N.	10 01 W.	9	12m, 10	10	1,005.7	SW	WNW, 8	WNW	W, 8	W-WNW.
Coamo, Am. S. S.	New York	San Juan	32 16 N.	71 30 W.	10	12p, 10	12	994.9	NE	NNW, 6	WNW	NW, 9	NE-NNW.
Medea, Du. S. S.	do	Puerto Sucre	31 10 N.	70 42 W.	11	1a, 11	11	988.2	NNW	NNW, 8	WNW	WNW, 9	NNW-NNW.
Gulfpenn, Am. S. S.	Providence	Puerto La Cruz	35 40 N.	70 30 W.	10	12m, 11	12	985.8	ENE	NNW, 9	NW	NW, 9	NNE-NNW.
Alaskan, Am. S. S.	San Juan	Jacksonville	28 23 N.	77 41 W.	10	12m, 11	12	1,012.9	NW	NW, 8	NNW	NW, 8	None.
San Miguel, Port. S. S.	Ponta Delgada	New York	37 06 N.	67 48 W.	11	2p, 11	12	978.7	NE	NNE, 8	NNW	NNE, 8	NE-NNE.
Angelina, Am. S. S.	San Juan	do	28 00 N.	66 14 W.	12	2p, 11	12	1,002.7	NW	WNW, 7	NW	NW, 8	
Otho, Am. S. S.	Freetown	do	13 59 N.	66 14 W.	11	4p, 11	14	972.2	NW	SW, 6	NW	NW, 9	SW-W.
Oremar, Am. S. S.	Cristobal	Philadelphia	30 12 N.	74 36 W.	10	4p, 11	12	999.0	NW	NW, 8	NW	NW, 10	NW-N.
San Blas, Pan. S. S.	Puerto Cortes	Baltimore	33 25 N.	76 16 W.	11	4p, 11	12	1,009.5	NNW	NNW, 7	N	N, 9	Steady.
Santa Rosa, Am. S. S.	New York	Bermuda	37 00 N.	70 30 W.	11	5p, 11	13	990.9	NNE	NNE, 9	WNW	N, 10	NNE-N.
Gulphawk, Am. M. S.	do	Las Piedras	34 54 N.	72 06 W.	11	7p, 11	13	997.3	NNE	NNW, 11	WNW	NNW, 11	N-NNW.
Spencer, U. S. C. G.	Station No. 1	New York	39 28 N.	68 13 W.	11	8p, 11	12	987.5	NE	N, 11	NW	N, 12	NNE-N.
Uruguay, Am. S. S.	New York	Barbados	35 31 N.	70 38 W.	11	8p, 11	13	961.9	N	N, 10	WSW	N, 10	NNE-N.
Mayari, Pan. S. S.	Boston	Banes, Cuba	38 40 N.	70 38 W.	11	8p, 11	13	999.0	NE	NNE, 10	NW	NNE, 10	NE-N.
Excalbur, Am. S. S.	Bermuda	New York	34 38 N.	66 47 W.	11	10p, 11	13	972.9	SSW	NNW, 10	NW	SW, 10	NW-NNW.
Examiner, Am. S. S.	Trinidad	do	24 40 N.	69 20 W.	10	11p, 11	12	1,008.5	WSW	W, 9	NW	WNW, 9	NW-W-WNW.
Alcoa Scout, Am. S. S.	New York	Bermuda	34 23 N.	64 21 W.	10	4a, 12	14	970.9	E	WNW, 8	WNW	SW, 10	NW-W.
Exeter, Am. S. S.	do	do	36 57 N.	69 35 W.	11	8a, 12	12	994.2	NE	N, 9	NW	N, 9	NNE-NNW.
Bibb, U. S. C. G.	Station No. 2	Norfolk	37 00 N.	57 06 W.	11	4p, 12	14	978.0	E	S, 10	WNW	ESE, 12	SE-SSW.
Hamilton, U. S. C. G.	Norfolk	Station No. 1	39 42 N.	60 12 W.	10	6p, 12	15	969.2	SSE	NE, 8	NW	ESE, 12	ESE-N.
Siboney, Am. S. S.	Bermuda	Lisbon	38 42 N.	10 00 W.	13	6p, 14	14	999.3	NNE	N, 6	NNE	NNE, 9	NNE-N.
Hamilton, U. S. C. G.	On Station No. 1		39 45 N.	58 43 W.	17	3p, 17	17	1,010.8	S	SSW, 9	SW	SSW, 10	S-SW.
Agwistar, Am. S. S.	New York	Vera Cruz	21 36 N.	91 00 W.	18	6p, 17	18	1,010.5	N	E, 2	NNW	NNW, 9	NE-E-W.
Siboney, Am. S. S.	Lisbon	Bermuda	38 00 N.	24 18 W.	18	4a, 20	20	988.8	WSW	WNW, 8	NNW	WSW, 9	W-WNW.
Hamilton, U. S. C. G.	On Station No. 1		38 48 N.	59 18 W.	20	1p, 20	22	998.3	NW	WNW, 10	NW	WNW, 10	
Exeter, Am. S. S.	Bermuda	Lisbon	38 46 N.	14 00 W.	21	5p, 20	21	980.7	W	WSW, 5	WNW	WNW, 10	SW-W.
Ingham, U. S. C. G.	On Station No. 2		38 24 N.	45 36 W.	20	10p, 20	23	997.0	SW	W, 4	NW	WNW, 9	
Hamilton, U. S. C. G.	On Station No. 1		38 36 N.	60 00 W.	23	2a, 24	24	1,015.6	WSW	W, 8	NNW	NW, 9	WSW-NNW.
Massachusetts, Am. S. S.	Port Arthur	Providence	40 54 N.	71 30 W.	24	1a, 25	25	1,006.4	SE	E, 8	N	E, 10	SE-NE.
Hamilton, U. S. C. G.	On Station No. 1		39 00 N.	58 06 W.	25	3a, 26	26	997.6	SSW	W, 8	NW	WNW, 10	WSW-WNW.
NORTH PACIFIC OCEAN													
California Standard, Pan. M. S.	Yokohama	San Francisco	42 42 N.	169 54 W.	1	12p, 2	3	989.8	SE	SE, 8	SW	SE, 8	SE-SW.
Meigs, U. S. A. T.	Manila	do	39 35 N.	175 30 E.	1	5a, 2	2	989.2	S	SW, 6	W	S, 9	SW-WSW.
Aurore, Am. M. S.	Vladivostok	Los Angeles	43 48 N.	177 06 E.	2	12p, 2	2	981.7	ESE	SE, 5	ESE	ESE, 9	ESE-S.
Equador, Swed. M. S.	Los Angeles	Vladivostok	38 43 N.	174 25 E.	2	12m, 2	4	991.4	S	W, 8	WNW	WNW, 10	SSW-W.
District of Columbia, Am. S. S.	Portland, Ore.	San Francisco	41 54 N.	124 42 W.	4	9p, 4	4	1,005.1	S	S, 8	SW	S, 8	SSE-W.
Equador, Swed. M. S.	Los Angeles	Vladivostok	38 35 N.	161 50 E.	5	4a, 5	6	998.1	W	W, 5	WNW	W, 10	SSW-W.
Meigs, U. S. A. T.	Manila	San Francisco	40 13 N.	156 30 W.	6	2a, 6	7	999.7	WNW	W, 5	NW	WNW, 9	
St. Mihiel, U. S. A. T.	Seward	do	47 35 N.	132 38 W.	6	12p, 6	6	977.0	E	SE	ESE	E, 8	ESE-ESE.
Bralanta, Nor. M. S.	Yokohama	Los Angeles	40 15 N.	171 11 W.	6	2a, 7	7	989.8	SSW	SW, 7	SSW	SSW, 10	SSW-W.
Maple, Am. S. S.	San Francisco	Honolulu	33 00 N.	136 06 W.	6	8a, 7	8	995.9	W	W, 8	NW	N, 9	WSW-W.
Satartia, Am. S. S.	Legaspi, P. I.	Los Angeles	33 25 N.	157 27 E.	6	1a, 7	8	1,006.8	NW	NW, 9	NW	NW, 10	
Illinois, Am. S. S.	Yokohama	San Francisco	40 18 N.	178 30 E.	7	2p, 7	8	972.9	SSE	SSW, 10	WNW	SSW, 10	SSE-WSW.
Maunawili, Am. S. S.	Honolulu	do	30 29 N.	141 53 W.	7	2p, 7	7	1,009.8	NW	NW, 9	NNW	NW, 9	None.
Makua, Am. S. S.	Los Angeles	Honolulu	31 30 N.	130 30 W.	7	6p, 7	8	992.9	SSW	SSW, 8	NW	NNW, 9	SSW-WNW.
District of Columbia, Am. S. S.	San Francisco	Balboa	34 33 N.	120 42 W.	8	9p, 8	8	1,009.1	SE	SE, 8	SE	SE, 8	
Brunswick, Pan. M. S.	Los Angeles	Yokohama	34 36 N.	141 42 E.	8	12m, 8	8	1,008.1	ENE	NE, 9	NE	NE, 9	E-NNE.
Bralanta, Nor. M. S.	Yokohama	Los Angeles	40 45 N.	161 51 W.	7	4p, 8	9	976.3	SW	SW, 11	WSW	SW, 11	SW-WSW.
Hamakua, Am. S. S.	Balboa	San Diego	15 48 N.	94 06 W.	8	6p, 8	9	1,010.5	WNW	NNW, 5	NE	NNW, 8	NNW-WNW-NW.
Maunalei, Am. S. S.	San Francisco	Honolulu	37 36 N.	123 06 W.	8	10p, 8	9	1,010.5	SE	SE, 6	E	ESE, 8	SE-ESE.
Maple, Am. S. S.	do	do	27 35 N.	145 17 W.	9	12m, 10	10	1,009.1	SW	S, 8	W	S, 8	S-NW.
Nebraskan, Am. S. S.	Los Angeles	Balboa	9 40 N.	89 20 W.	11	2a, 11	11	1,011.2	NNE	NNE, 6	NNE	NE, 8	None.
Steel Navigator, Am. S. S.	Balboa	Los Angeles	15 54 N.	97 36 W.	10	5a, 11	10	1,011.9	N	W, 3	NE	NNE, 8	NE-W.
Satartia, Am. S. S.	Legaspi, P. I.	do	35 12 N.	178 24 E.	10	12m, 11	11	1,006.4	SE	SE, 10	S	SE, 10	SE-S.
Virginian, Am. S. S.	Balboa	do	15 23 N.	94 03 W.	11	4p, 11	12	1,011.2	NNE	N, 6	ENE	N, 8	NNE-N.
Taketoyo Maru, Jap. S. S.	Yokohama	San Francisco	46 54 N.	175 18 W.	12	4a, 12	13	983.6	WNW	SSW, 3	WNW	WNW, 10	SSW-WNW.
Vermont, Am. S. S.	Los Angeles	Balboa	10 40 N.	87 35 W.	10	4p, 12	13	1,010.8	E	NE, 8	NE	NE, 9	None.
Makiki, Am. S. S.	Seattle	Honolulu	42 08 N.	135 35 W.	14	9a, 14	14	1,000.7	WSW	WSW, 8	WNW	W, 10	WSW-WNW.
Satartia, Am. S. S.	Legaspi, P. I.	Los Angeles	34 54 N.	141 54 W.	17	2a, 18	18	1,005.4	WSW	SW, 8	SW, 8	WNW, 9	SW-WNW.
West Kyska, Am. S. S.	San Francisco	Seattle	44 45 N.	125 02 W.	18	8a, 19	18	1,013.2	SE	NE, 6	SE	SE, 8	
U. S. Nitro	Balboa	San Diego	13 30 N.	94 36 W.	18	6p, 18	19	1,011.9	NNW	NNW, 6	NE	NE, 9	
Makiki, Am. S. S.	Seattle	Honolulu	35 00 N.	141 05 W.	17	2a, 18	18	1,003.7	WSW	SW, 10	WNW	WSW, 12	SSW-WSW.
Pleasantville, Nor. M. S.	Manila	Los Angeles	38 36 N.	171 12 E.	14	12p, 14	16	997.7	W	W, 8	NW	NNW, 9	W-NW.
Admiral Halstead, Am. S. S.	Lalawigan, P. I.	do	33 24 N.	178 30 W.	20	12p, 19	20	978.7	SSE	SW, 7	WNW	NNW, 12	SW-NNW.
Vermer, Am. S. S.	Los Angeles	Balboa	15 30 N.	95 48 W.	20	3p, 20	21	1,010.8	ENE	ENE, 5	NW	NNE, 9	ENE-NNE.
Daini Ogura Maru, Jap. M. S.	Yokohama	Los Angeles	37 54 N.	169 30 W.	20	12p, 20	21	974.6	N	E, 6	W	NW, 9	E-N.
Noto Maru, Jap. M. S.	do	San Francisco	36 54 N.	178 18 E.	20	12p, 23	23	977.3	S	W, 7	W	WNW, 10	W-WNW.

1 Position approximate.

OCEAN GALES AND STORMS, JANUARY 1941—Continued

Vessel	Voyage		Position at time of lowest barometer		Gale began January	Time of lowest barometer January	Gale ended January	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
	From—	To—	Latitude	Longitude									
NORTH PACIFIC OCEAN—Con.													
President Van Buren, Am. S. S.	Hong Kong	San Francisco	38 12 N.	179 16 E.	22	4a, 23	22	982.7	SE	W, 6	SE	SE, 8	WNW-WSW-WNW
Emidio, Am. S. S.	Shanghai	Los Angeles	41 16 N.	179 20 W.	22	12m, 22	22	972.2	SE	S, 6	SSE	E, 8	NE-S-SW
President Van Buren, Am. S. S.	Hong Kong	San Francisco	37 54 N.	158 24 W.	25	1p, 25	25	973.6	SE	SSW, 8	SW	SW, 9	SE-WSW
Noto Maru, Jap. M. S.	Yokohama	do	38 10 N.	164 21 W.	25	12m, 25	26	962.1	SW	SW, 8	W	W, 11	SW-WSW
Emidio, Am. S. S.	Shanghai	Los Angeles	42 20 N.	163 00 W.	25	6p, 25	26	960.0	ENE	NNW, 9	W	N, 10	NNE-NNW
Coldbrook, Am. S. S.	Kobe	Vancouver, B. C.	50 30 N.	135 34 W.	25	8a, 26	27	964.4	NE	NNW, 8	SSW	NNE, 9	None
Chirkof, U. S. A. T.	Seward	Ketchikan	58 36 N.	147 30 W.	27	8a, 27	28	967.5	NE	SSE, 6	SSE	SSE, 8	NE-S
Emidio, Am. S. S.	Shanghai	Los Angeles	41 50 N.	151 00 W.	27	3a, 28	28	982.7	S	S, 10	SSW	SSE, 10	SSE-SW
Coldbrook, Am. S. S.	Kobe	Vancouver, B. C.	50 10 N.	143 27 W.	28	4p, 28	29	982.1	SSE	SE, 10	W	SE, 10	SSE-SE-S
Texmar, Am. S. S.	Balboa	Los Angeles	9 15 N.	85 54 W.	30	4p, 30	31	1,007.8	NNE	NNE, 6	NE	NNE, 8	E-S
Coldbrook, Am. S. S.	Kobe	Vancouver, B. C.	49 11 N.	126 48 W.	30	5a, 31	31	997.3	SE	ESE, 9	SE	E, 10	E-S
Swiftsure Bank Lightship, U. S.	On station		48 33 N.	125 00 W.	30	6a, 30	30	1,002.7	SE	SE, 9	S	SE, 10	SE-S
Swiftsure Bank Lightship, U. S.	do		48 33 N.	125 00 W.	31	8a, 31	*1	1,003.7	E	E, 7	SE	SE, 10	E-SE

* Position approximate.

* February.

WEATHER ON THE NORTH PACIFIC OCEAN

By WILLIS E. HURD

Atmospheric pressure.—Owing to the prevalence of numerous cyclonic depressions on northern and middle waters of the North Pacific Ocean during January 1941, the average barometer was below normal at all coastal and island stations shown in table 1, except in the extreme southwest, where pressures were normal or slightly above. The greatest departures occurred in the Aleutian region, with the maximum at Dutch Harbor, where the average pressure, 993.5 millibars (29.34 inches), was 8.2 millibars (0.24 inch) below the normal. The lowest station pressure reading was 963 millibars (28.44 inches), at Kodiak, on the 27th. The lowest reported ship's barometer was 960 millibars (28.35 inches), read on the American S. S. *Emidio*, near 42° N., 163° W., 25th. Nearly as low a reading, 961 millibars (28.38 inches), was made on the Japanese S. S. *Norfolk Maru*, near 47° N., 164° W., on the 8th.

Regions of moderately high average pressure lay off the coasts of California and eastern China.

TABLE 1.—Averages, departures, and extremes of atmospheric pressure at sea level, North Pacific Ocean January 1941, at selected stations

Stations	Average pressure	Departure from normal	Highest	Date	Lowest	Date
	Millibars	Millibars	Millibars		Millibars	
Barrow	1,018.5	-0.1	1,042	21	985	30
Dutch Harbor	993.5	-8.2	1,012	11	976	8
St. Paul	999.6	-3.8	1,014	25	983	28
Kodiak	995.1	-4.9	1,019	21	963	27
Juneau	1,006.8	-5.1	1,025	23	985	27
Tatoosh Island	1,012.5	-2.8	1,028	1	992	24
San Francisco	1,017.3	-2.3	1,027	17	1,004	6
Mazatlan	1,014.0	-0.2	1,016	9, 12, 23	1,011	27
Honolulu	1,015.6	-0.3	1,021	5	1,010	27
Midway Island	1,015.0	-1.9	1,028	1	1,001	22
Guam	1,012.4	-0.1	1,016	13	1,010	16, 18
Manila	1,013.3	+1.1	1,018	15	1,010	18, 24
Hong Kong	1,017.3	-2.3	1,030	31	1,008	22
Naha	1,019.0	+0.4	1,031	31	1,011	22, 23
Titijsima	1,016.3	0.0	1,024	27	1,009	8
Petrovsk	1,002.5	-1.6	1,027	23	974	16

NOTE.—Data based on 1 daily observation only, except those for Juneau, Tatoosh Island, San Francisco, and Honolulu, which are based on 2 observations. Departures are computed from best available normals related to time of observations.

Extratropical cyclones and gales.—January 1941 was less severely stormy than the preceding December in northern and eastern waters, but was much more stormy in mid-ocean, especially between latitudes 30° and 40° N., longitudes 160° W., and 170° E., where gales were few and moderate in December. Stormy conditions were for the most part local during the first 5 days of the month, but on the 6th to 12th they became more widespread, as well as again on about the 18th to 25th. Some 15 reports from ships showed gales of force 10 as observed on 12 days. Four reports gave winds encountered as high as force 11 to 12, but these velocities appear to have been more in the form of sharp squalls than of sustained high winds.

From January 1 to 5 few gales were encountered on the Pacific, and those were mostly in connection with moderately stormy conditions in middle longitudes. The exception was a south gale of force 8 reported off the lower coast of Oregon on the 4th. The highest wind was of force 10, encountered on the 3d, near 39° N., 174° E., in the midst of stormy weather in which one vessel was involved from the 2d to the 6th. On the 5th this ship came under the influence of another low and encountered a further gale near 39° N., 162° E. By the 6th this low going eastward, had deepened, and in conjunction with another deep cyclone center to the eastward of the 180th meridian, was causing fresh to whole gales at various points between longitudes 160° E. and 155° W., along the middle and northern routes. By the 7th the western and more important cyclone was central near 42° N., 175° E., moving rapidly northeastward toward the eastern Aleutians, near which it was central on the 8th, accompanied by low pressures and scattered gales, the strongest of which, of force 11, was reported near 41° N., 162° W., on the 8th.

Meanwhile, another disturbance, of less extent, had developed on the 7th some 600 miles off the central California coast. To the westward of the center and about midway of the route toward Honolulu, the wind in localities had risen to force 9 from northerly directions. By the 8th the disturbance had moved southeastward to near 33° N., and 125° W., still causing high winds to the westward of the center, and also to the eastward near