

OCEAN GALES AND STORMS, MARCH 1931

Vessel	Voyage		Position at time of lowest barometer		Gale began	Time of lowest barometer	Gale ended	Lowest barometer	Direction of wind when gale began	Direction and force of wind at time of lowest barometer	Direction of wind when gale ended	Highest force of wind and direction	Shifts of wind near time of lowest barometer
	From—	To—	Latitude	Longitude									
NORTH ATLANTIC OCEAN													
Elkhorn, Am. S. S.	Houston	Bremen	40 00 N	50 00 W	Mar. 1	2 a, 1	Mar. 2	29.07	WNW	NNW, 8	W	W, 11	WSW-WNW.
Gatun, Hond. S. S.	New Orleans	New York	29 30 N	79 40 W	Mar. 3	2 a, 3	Mar. 4	29.31	N	NW, 10	N	N, 12	N-WW.
Standard Arrow, Am. S. S.	Beaumont	do.	31 18 N	76 01 W	do.	6 a, 3	Mar. 3	28.99	W	W, 12	W	—, 12	W-WNW.
Zacapa, Am. S. S.	Santa Marta	do.	34 10 N	74 33 W	do.	10 a, 3	Mar. 4	28.96	E	NE, 10	NW	NE, 12	NE-N-NW.
San Tirso, Br. S. S.	Minatitlan	United Kingdom	31 45 N	63 30 W	do.	6 p, 3	Mar. 8	29.38	S	SSW, 9	NW	SSW, 10	S-SW-W.
Nosa Prince, Am. S. S.	Canal Zone	Tampico	11 45 N	80 12 W	do.	Mdt, 3	Mar. 5	29.81	N	N, 8	NE	—, 9	N-NE.
Knorrville City, Am. S. S.	New York	Port Said	39 54 N	45 43 W	Feb. 27	2 a, 3	Mar. 4	29.18	WNW	NW, 6	W	NW, 10	NW-W.
Quaker City, Am. S. S.	Hull	Philadelphia	41 15 N	66 40 W	Mar. 3	2 p, 4	Mar. 5	28.82	NNW	NNW, —	NW	NE, 12	NE, 12
San Macedonio, Br. S. S.	Puerto Mexico	United Kingdom	40 45 N	57 27 W	do.	7 a, 4	do.	28.90	E	ESE, 8	SW	E, 11	E-S-W.
Gonzenheim, Ger. S. S.	Hamburg	Charleston	31 56 N	73 35 W	Mar. 4	Noon, 4	do.	29.36	S	W, 8	NW	—, 10	S-W.
Semland, Belg. S. S.	Halifax	London	43 00 N	60 56 W	do.	2 a, 5	do.	28.80	E	SSW, 9	SW	ENE, 12	ENE-S-SSW.
Persephone, Danzig M. S.	Bremerhaven	Las Piedras	44 40 N	19 30 W	Mar. 5	8 p, 5	Mar. 6	28.94	S	SW, 8	NW	—, 10	SSW-SW.
River Hudson, Br. S. S.	Oran	Boston	35 46 N	57 07 W	Mar. 6	3 a, 6	do.	29.52	WSW	WSW, 8	WNW	WNW, 11	Steady.
Nosa Prince, Am. S. S.	Canal Zone	Tampico	22 21 N	89 05 W	Mar. 7	1 p, 7	Mar. 9	29.91	NNW	NNW, 7	NNW	—, 9	N-NE-NNW.
Boston City, Br. S. S.	Fowey	Boston	46 52 N	37 48 W	Mar. 6	4 a, 7	do.	28.92	ESE	N, 10	N	N, 10	SW-W-N.
Marie Leonhardt, Ger. S. S.	Charleston	Bremen	48 40 N	15 25 W	Mar. 7	2 p, 7	do.	29.28	E	E, 8	E	E, 10	Steady.
Momus, Am. S. S.	New York	New Orleans	35 50 N	75 10 W	Mar. 8	1 p, 8	Mar. 10	29.34	WSW	—	W	W, 10	WSW-W.
Berlin, Ger. S. S.	do.	English Channel	41 40 N	53 22 W	Mar. 9	2 p, 9	Mar. 9	29.49	SE	SE, 10	SSE	—, 10	ESE-SSE.
Ertavia, Am. S. S.	Gibraltar	Boston	37 00 N	17 50 W	Mar. 10	2 a, 10	Mar. 10	29.38	S	S, 7	—	—, 10	S-WSW.
Ala, Am. S. S.	New York	Antwerp	45 10 N	44 04 W	do.	Noon, 11	Mar. 11	29.28	SE	SSE, 10	WSW	—, 10	SE-S-SSW.
Duquesne, Am. S. S.	Manchester	New Orleans	38 39 N	40 53 W	Mar. 14	9 a, 15	Mar. 17	29.25	W	W, —	NW	NW, 10	W-NW.
Gudeloupe, Fr. S. S.	St. Nazaire	Canal Zone	40 25 N	19 17 W	do.	8 a, 15	Mar. 18	29.10	ESE	SW, 6	NW	SW, 11	—
Standard, Am. S. S.	Baton Rouge	New York	38 25 N	74 30 W	Mar. 16	Mdt, 16	Mar. 17	29.70	NW	NNW, 8	NW	—, 10	Steady.
Emanuel Nobel, Belg. S. S.	Rotterdam	do.	40 38 N	68 11 W	do.	Mdt, 16	Mar. 16	29.54	E	NE, —	NNE	NE, 10	E-N-NNW.
Mercker, Belg. S. S.	Antwerp	Canal Zone	36 00 N	35 20 W	do.	1 a, 16	Mar. 17	29.49	W	NW, 10	NW	NW, 10	Steady.
Tula, Am. S. S.	Manchester	Charleston	46 00 N	24 26 W	Mar. 17	6 p, 17	Mar. 18	28.99	N	N, —	N	N, 10	Do.
Steel Age, Am. S. S.	Port Said	Mobile	30 40 N	56 53 W	do.	11 p, 17	Mar. 17	29.76	S	S, 12	W	S, 12	S-W.
Ertavia, Am. S. S.	Gibraltar	Boston	37 10 N	51 50 W	Mar. 19	1 a, 19	Mar. 20	29.66	WSW	WSW, 9	—	—, 10	WSW-W.
West Maximus, Am. S. S.	Antwerp	Mobile	25 40 N	83 30 W	Mar. 21	—, 22	Mar. 22	29.97	W	W, —	NE	W, 8	W-WNW.
Karlruhe, Ger. S. S.	Bremerhaven	New York	43 42 N	51 25 W	Mar. 18	2 a, 22	do.	29.22	N	N, 9	NW	—, 9	—
West Cawthon, Am. S. S.	Trinidad	Boston	37 20 N	68 25 W	Mar. 22	2 p, 22	Mar. 23	29.25	E	E, 10	E	E, 10	E-S.
Tampa, Am. M. S.	Port Said	do.	43 05 N	38 53 W	do.	4 a, 23	Mar. 25	29.10	S	SSE, 5	N	WNW, 10	S-SSE-W.
Viborg, Dan. S. S.	Norfolk	London	47 50 N	30 10 W	Mar. 23	4 p, 25	do.	29.67	S	SE, 10	SSE	SE, 10	SE-SSE-SE.
Persephone, Danzig M. S.	Las Piedras	Southampton	34 00 N	47 20 W	Mar. 28	4 a, 29	Mar. 30	29.45	SE	N, 10	NNE	N, 10	NE-N-NNE.
Nosa King, Am. S. S.	W. coast South America.	New Orleans	25 00 N	86 50 W	Mar. 30	—, 31	Apr. 1	29.73	E	SW, 7	NW	WNW, 10	SW-WNW.
NORTH PACIFIC OCEAN													
Emp. of Asia, Can. S. S.	Yokohama	Vancouver	45 58 N	166 22 E	Feb. 28	10 p, 1	Mar. 4	28.49	ENE	NW, 7	SW	W, 9	ENE-NW-N.
San Luis Maru, Jap. M. S.	Kudamatsu	San Pedro	40 53 N	172 20 W	Mar. 1	6 p, 2	Mar. 3	29.24	SE	SW, 7	WNW	S, 9	SSW-SW-W.
Bellingham, Am. S. S.	Tacoma	Yokohama	49 46 N	174 12 E	do.	10 p, 2	do.	28.42	SE	SSE, 9	SW	SW, 10	SE-S.
Pres. Pierce, Am. S. S.	Victoria	do.	48 15 N	168 00 E	do.	4 a, 2	Mar. 5	28.60	SE	NW, 12	NW	NW, 12	SSE-NW-W.
Pres. Jefferson, Am. S. S.	Yokohama	Victoria	49 47 N	176 20 W	Mar. 2	8 p, 2	Mar. 2	29.23	SE	SSE, 9	S	SSE, 9	SE-SSE.
Golden Sun, Am. S. S.	Otaru	San Francisco	47 03 N	155 10 W	do.	10 a, 3	Mar. 4	29.77	S	S, 11	WSW	S, 11	Steady.
Pres. Grant, Am. S. S.	Yokohama	Honolulu	36 06 N	152 48 E	Mar. 4	10 a, 5	Mar. 5	29.57	WSW	SSW, 9	NNW	SSW, 9	SW-WNW.
Manoa, Am. S. S.	San Francisco	do.	37 34 N	123 21 W	do.	6 p, 4	do.	29.86	W	W, 9	W	W, 9	Steady.
Steel Worker, Am. S. S.	Kahului	Yokohama	53 16 N	142 55 E	do.	12 p, 4	do.	29.58	S	SSW, —	NW	SSW, 9	SSW-WSW.
Oregon, Am. S. S.	Chefoo	Portland	46 40 N	179 30 E	do.	7 p, 4	do.	29.13	WSW	WSW, 10	W	WSW, 12	WSW-W.
Kiyo Maru, Jap. S. S.	Tokuyama	San Pedro	40 50 N	153 00 E	Mar. 5	2 a, 5	Mar. 6	28.98	NNE	N, 8	W	WNW, 9	4 pts.
Soyo Maru, Jap. M. S.	Portland	Yokohama	49 20 N	165 00 E	do.	8 a, 5	do.	28.15	SE	ESE, 6	NW	WNW, 12	ESE-WNW.
Bellingham, Am. S. S.	Tacoma	do.	46 52 N	163 45 E	do.	Mdt, 5	Mar. 7	28.18	E	S, 6	WNW	NW, 10	SE-S-W.
Atago Maru, Jap. M. S.	Yokohama	San Francisco	41 00 N	164 00 E	do.	8 p, 5	do.	29.05	SW	SW, 8	W	W, 10	SW-W.
Somedono Maru, Jap. S. S.	Muroran	Columbia River	48 17 N	173 51 E	do.	8 p, 6	do.	28.22	SE	SSW, 11	WSW	SW, 11	SSW-SW.
Akagisan Maru, Jap. M. S.	Yokohama	San Francisco	42 00 N	176 02 W	Mar. 6	6 a, 6	Mar. 6	29.43	S	SW, 9	SW	SW, 9	S-SW.
Courageous, Am. M. S.	Shanghai	San Pedro	36 40 N	147 30 E	Mar. 7	3 p, 8	Mar. 8	29.23	SSE	SW, 8	NW	SW, 10	SSE-SW-S.
San Pedro Maru, Jap. M. S.	Moji	San Francisco	36 59 N	150 41 E	do.	—, 7	do.	29.24	S	SW, 8	NW	SSW, 9	S-SW-W.
Kiyo Maru, Jap. S. S.	Tokuyama	San Pedro	44 29 N	169 18 E	Mar. 8	4 p, 8	Mar. 9	28.52	SE	SW, 8	WSW	WSW, 9	4 pts.
Bellingham, Am. S. S.	Tacoma	Yokohama	44 32 N	158 30 E	do.	8 a, 8	do.	28.44	SSE	N, 10	WNW	N, 10	SSE-N.
Elmworth, Br. M. S.	Shanghai	Victoria	44 02 N	161 00 E	do.	8 a, 8	do.	28.47	WNW	SW, 6	W	NW, 10	SW-WNW.
Dakotan, Am. S. S.	Los Angeles	New York	13 53 N	96 26 W	do.	2 p, 8	do.	29.93	NE	NE, 10	N	NE, 10	NE-NNE-N.
Heian Maru, Jap. M. S.	Yokohama	Seattle	42 51 N	156 05 E	Mar. 7	4 a, 8	Mar. 10	28.74	SSW	W, 5	SSW	—, 10	WSW-W.
Chief Capitano, Br. S. S.	Karatsu	Vancouver	46 37 N	165 47 E	Mar. 10	11 a, 10	do.	29.01	E	NE, 3	SW	S, 10	S-SSW-S.
Bellingham, Am. S. S.	Tacoma	Yokohama	40 01 N	147 37 E	Mar. 11	8 a, 12	Mar. 14	29.08	SE	NW, 7	N	NW, 11	SE-S-WNW.
San Diego Maru, Jap. M. S.	Elwood	do.	34 04 N	154 40 E	do.	10 a, 12	Mar. 15	29.35	E	W, 6	N	WNW, 10	SE-W.
Emilie L. D., Fr. S. S.	Portland	do.	34 52 N	166 53 E	Mar. 12	7 p, 12	Mar. 12	29.08	SE	SE, 10	W	SE, 10	SE-WSW.
Do.	do.	do.	34 33 N	162 04 E	Mar. 14	7 p, 14	Mar. 19	29.08	W	WNW, 9	N	WNW, 10	W-WNW.
Melville Dollar, Am. S. S.	Legaspi	Los Angeles	39 11 N	175 43 E	Mar. 12	Noon, 13	Mar. 13	29.36	SE	SE, 9	W	SE, 9	SE-S-W.
Eldena, Am. S. S.	San Pedro	Yokohama	31 23 N	162 05 E	Mar. 14	—, 14	Mar. 15	29.56	WSW	WSW, —	WNW	W, 9	SW-W.
Agra Maru, Jap. M. S.	Yokohama	Los Angeles	37 06 N	148 14 E	Mar. 17	8 p, 18	Mar. 17	29.60	SE	SSE, 9	NW	SSE, 9	SSE-W.
Pres. Taft, Am. S. S.	Victoria	Yokohama	39 48 N	146 45 E	Mar. 18	4 p, 18	Mar. 18	29.72	S	SE, 4	—	NNW, 11	—
Grays Harbor, Am. S. S.	Tacoma	do.	52 13 N	157 09 W	Mar. 21	3 a, 22	Mar. 22	28.52	ESE	W, 9	WSW	SW, 9	SSW-W.
Admiral Farragut, Am. S. S.	Seattle	Kodiak	59 54 N	145 20 W	Mar. 23	1 a, 23	Mar. 23	29.73	E	E, 10	E	E, 10	E-SW.
Everett, Am. S. S.	Hong Kong	San Francisco	34 10 N	148 25 E	do.	6 p, 23	Mar. 26	28.42	SSE	S, 7	NW	SE, 9	—
Emma Alexander, Am. S. S.	San Diego	Seattle	37 51 N	122 42 W	Mar. 24	6 p, 24	Mar. 25	29.93	WNW	NW, 5	NNW	NW, 9	Steady.
Grays Harbor, Am. S. S.	Tacoma	Yokohama	49 36 N	167 35 E	Mar. 29	2 a, 30	Mar. 31	29.54	S	SSE, 8	WSW	WSW, 9	WSW-SSE.

1 Approximate.