

and 29.58 inches at Pensacola and Jacksonville, respectively.

On the 16th the center of this low was between New York and Nantucket and winds of hurricane force were encountered by vessels near the center, while the station at Atlantic City reported a northeast wind of 75 miles an hour, barometer, 29.10 inches. This disturbance moved but little during the next 48 hours, and decreased somewhat in intensity, although on the 17th westerly to southwesterly gales still prevailed between the Bermudas and Nova Scotia, and on the 18th between Hatteras and New York.

On the 18th a disturbance was over the Azores that increased in intensity as it moved northeastward, and on the 19th moderate to strong gales were over the eastern section of the southern steamer lanes, while on the 20th the storm area extended as far north as the fiftieth parallel.

On the 22d a moderate depression was central about 200 miles east of Nantucket and a second low of somewhat greater intensity near 47° N., 35° W., while northwesterly gales occurred over the middle section of the

steamer lanes. On the 23d the western low was central near Sable Island and on the 24th near Belle Isle. On both dates moderate gales prevailed between the fortieth and fiftieth parallels.

On the 26th the Province of Quebec was covered by an area of low pressure, and strong southwesterly gales were encountered along the American coast between Halifax and Jacksonville.

On the 27th a shallow depression was over the eastern section of the steamer lanes, that deepened as it moved eastward, and on the 28th moderate to strong northerly gales occurred over a limited area between the forty-fifth and fifty-fifth parallels, east of the tenth meridian. By the 29th the center of this low was near the English Channel and favorable conditions were the rule, except for moderate northerly gales between the forty-ninth and fifty-fifth parallels and the tenth and fifteenth meridians.

On the 29th Portland, Me., was near the center of a low that moved slowly northward and on the 30th was near Father Point, Quebec; moderate conditions prevailed on both days.

OCEAN GALES AND STORMS, APRIL, 1929

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													
President Polk, Am. S. S.	Marseille	New York	40 37 N	69 37 W	Apr. 1	10 p, 1	Apr. 2	29.61	S	S, 6	WNW	WNW, 10	S-SW-WNW
Exton, Am. S. S.	Alexandria	Boston	42 54 N	60 54 W	2	4 a, 2	2	29.65	SW	SW, 7	NW	W, 9	SW-W
D. G. Scofield, Am. S. S.	New York	Colombia	38 31 N	73 49 W	4	4 a, 4	5	30.21	S	S, 4	SW	SW, 10	S-SW
St. Dunstan, Br. S. S.	River Tyne	Galveston	41 08 N	37 49 W	6	Mdt, 6	7	29.50	S	S, 9	N	S, 9	S-SW-N
Schenectady, Am. S. S.	Gothenburg	Portland, Me.	48 03 N	42 05 W	7	1 a, 7	7	29.29	WNW	SW, 6	NW	WNW, 11	SW-NW
Lepanto, Br. S. S.	Newcastle	New York	45 57 N	34 30 W	6	11 a, 7	7	29.53	SSE	SSE, 10	WNW	SSE, 10	SSE-W-WNW
Georgie, Fr. S. S.	Antwerp	Guadeloupe	33 37 N	35 05 W	8	6 p, 8	8	29.46	SSW	S, 10	W	S, 10	S-W
Barendrecht, Du. S. S.	Lisbon	Philadelphia	34 58 N	31 20 W	8	1 a, 9	9	29.22	S	S	WSW	S, 9	S-SWS
Winnabago, Br. S. S.	Manchester	Bayonne, N.J.	48 53 N	31 44 W	9	4 a, 10	10	28.85	SE	WSW, 12	NW	WSW, 12	SE-SWS
New York, Ger. S. S.	Cuxhaven	New York	44 23 N	39 34 W	10	2 a, 11	11	28.96	SE	NNW, 12	NW	WSW, 12	SSW-WNW
Berlin, Ger. S. S.	Bremen	do	40 38 N	68 26 W	12	4 p, 12	13	29.67	E	E, 8	N	E, 10	E-N
West Zeda, Am. S. S.	Aberdeen	Gulfport	52 08 N	29 52 W	11	10 p, 12	12	28.85	SE	SE, 11	S	SE, 11	SE-S
Mercier, Belg. S. S.	New York	Antwerp	40 20 N	64 56 W	13	—, 13	13	29.68	E	E, 11	NNW	E, 11	E-N
Leviathan, Am. S. S.	do	Southampton	41 25 N	40 06 W	12	8 p, 13	13	29.70	NW	WNW, 8	WNW	NW, 10	NW-WNW
Duivendrecht, Du. M. S.	New Orleans	Lands End	48 45 N	15 00 W	11	11 a, 13	13	29.60	SE	SSE, 9	SW	SSE, 9	SSE-SW
Grootendijk, Du. S. S.	Canal Zone	Hamburg	49 40 N	6 50 W	11	4 p, 14	14	29.59	SSE	SSE, 8	SSW	SSE, 9	SSE-SWS
West Madaket, Am. S. S.	Liverpool	Mobile	46 12 N	18 29 W	13	9 a, 14	15	29.35	S	W, 9	W	—, 10	S-SW-W
Rialance, Ger. S. S.	New York	Hamburg	40 05 N	72 09 W	16	Noon, 16	16	29.04	NE	E, 10	E	ENE, 12	ENE-E
Gulfrince, Am. S. S.	Beverly, Mass.	Port Arthur	40 00 N	70 00 W	16	Noon, 17	19	28.90	E	S, 7	NW	E, 10	E, 10
Etarch, Am. S. S.	Lisbon	New York	38 09 N	26 07 W	18	4 a, 18	19	29.68	N	W, 4	N	NNW, 10	N-NW-N
River Orontes, Br. S. S.	Gibraltar	do	36 28 N	25 30 W	19	—, 19	20	29.54	N	N, 9	N	N, 9	Steady.
Mississippi, Br. M. S.	New York	London	40 43 N	56 00 W	23	4 a, 23	24	29.43	W	W, 9	WNW	W, 10	W-WNW
Rijnland, Du. S. S.	Rotterdam	New York	45 43 N	52 32 W	23	—, 24	24	28.79	SSE	SSW, 9	SW	SW, 10	S-SW
Yapalaga, Am. S. S.	Aycmouthe	Savannah	32 30 N	77 08 W	25	4 p, 25	26	29.89	S	SSW, 9	WNW	SW, 9	SSW-WNW
Tynefield, Br. M. S.	Liverpool	New York	41 00 N	65 38 W	25	8 a, 26	26	29.66	SW	SSW, 8	WSW	SSW, 10	SW-SSW
Balsam, Am. S. S.	New York	Glasgow	62 09 N	22 59 W	27	8 a, 27	29	29.77	NNW	NNW, 7	NNE	N, 9	NNW-NNE
NORTH PACIFIC OCEAN													
Dickenson, Am. S. S.	Midway Island	Honolulu	24 30 N	164 15 W	2	1 a, 2	2	29.95	NNE	NNE, 7	—	N, 8	NNE-N
Paris Maru, Jap. S. S.	Yokohama	Vancouver	48 30 N	175 15 E	5	10 a, 6	6	29.10	ENE	S, 8	SSW	NNE, 9	E-SE-S
Golden Hind, Am. S. S.	San Francisco	Yokohama	31 57 N	174 42 E	7	1 a, 7	7	29.97	NE	NE, 5	NE	NE, 8	Steady.
President Wilson, Am. S. S.	Honolulu	Kobe	33 31 N	144 55 E	8	6 a, 8	8	29.79	S	S, 8	N	S, 8	S-SW
Havre Maru, Jap. S. S.	Yokohama	San Francisco	47 03 N	154 11 W	13	4 a, 13	14	29.31	WNW	WNW, 5	W	WNW, 8	Steady.
Kurohime Maru, Jap. S. S.	Muroran	Vancouver	49 20 N	132 32 W	13	11 p, 13	14	29.00	S	S, 8	SSW	S, 9	S-SSW
Makiki, Am. S. S.	Seattle	Honolulu	44 19 N	132 35 W	15	Noon, 15	15	29.34	S	SW, 8	W	SW, 9	SW-W
Nevada, Am. S. S.	Portland	Shanghai	39 10 N	136 51 E	21	Noon, 22	22	28.73	ENE	N, 5	WNW	NW, 11	ENE-N
Tamaba, Br. S. S.	San Pedro	Osaka	33 13 N	142 36 E	21	Noon, 21	23	29.19	SW	WSW, 8	WNW	W, 9	WSW-W
President Van Buren, Am. S. S.	Honolulu	Kobe	33 37 N	150 52 E	22	2 p, 22	23	29.82	WSW	W, 8	NW	W, 9	WSW-W
Winifred O'Donnell, Am. S. S.	Manila	Los Angeles	43 55 N	147 43 W	23	4 p, 23	28	29.68	SE	SE, 6	SE	SE, 8	SE-S
Dalblair, Br. S. S.	Shanghai	Vancouver	50 07 N	153 15 W	23	Mdt, 28	29	29.68	E	E, 8	E	E, 8	ENE-E
Yogen Maru, Jap. S. S.	Columbia	Yokohama	47 42 N	160 34 E	23	8 p, 29	30	29.50	S	S, 8	WSW	S, 8	5 pts.
SOUTH PACIFIC OCEAN													
James McGee, Am. S. S.	Buenos Aires	Talara	50 18 S	77 24 W	1	Noon, 2	2	28.43	NW	NNW, 12	SW	W, 12	Steady.
Clydefield, Br. M. S.	River Plate	California	50 45 S	77 25 W	26	2 a, 23	29	29.29	NNW	NNW	WSW	NNW, 10	Steady.