OCEAN GALES AND STORMS, AUGUST 1940

Vessel	Voyage		Position at time of lowest barometer		Gale began August	Time of lowest barometer August	Gale ended August	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			° ′	° ′				*Millibars*					
Lysefjord, Nor. S. S	New Orleans	Cortes	26 00 N.	88 05 W.	4	4p, 4	4	1,009.6	NW	NW, 8	S	NW, 8	NW-W.
Connecticut, Am. S. S	Port Arthur	Norfolk	26 45 N.	88 06 W.	4	1a, 5	5	1,003.7	WNW	S, 11	S	S, 11	WNW-S.
Sun, Am. M. S	Westwego, La	Marcus Hook	27 54 N.	87 42 W.	5	3a, 5	5	997.3	SSW	W, 5	S	S, 10	W-S.
Roanoke, Am. S. S	Port Arthur	Wilmington, N. C.	26 48 N.	88 12 W.	5	4a, 5	5	1,004.7	NW	W, 7	S	S, 10	W-S.
Virginia, Am. S. S	New York	Port Arthur	26 48 N.	87 18 W.	5	6a, 5	5	1,007.1	S	S, 8	S	S, 9	
Rhode Island, Am. M. S.	Port Arthur	New York	27 14 N.	88 48 W.	5	2p, 5	5	1,003.4	SSW	SSW, 5	SSW	SSW, 9	W-SSW.
Pygmalion, Du. M. S	New York	Carupano	19 36 N.	65 48 W.	5	5p, 5	6	1,012.5	E	E, 8	SE	E, 9	E-SE.
Dungannon, Am. S. S	Port Neches, Tex.	Claymont, Del.	27 35 N.	89 50 W.	5	6p, 5	6	1,005.8	NE	WNW, 7	SSE	S, 10	NW-WSW.
Meton, Am. S. S	Houston	Fall River	27 30 N.	90 24 W.	5	7p, 5	6	1,005.4	N	WNW, 7	SSE	S, 10	N-WSW.
Seatrain Havana, Am. S. S.	Habana	New Orleans	28 44 N.	88 37 W.	5	4a, 6	6	1,008.5	WSW	SE, 9	S	SE, 9	SSW-SE-SSE.
Gulfqueen, Am. S. S	Wilmington, N. C.	Port Arthur	28 00 N.	90 12 W.	5	7p, 6	7	1,009.8	S	SE, 8	SE	SE, 10	None.
Amazone, Du. S. S	New York	Port au Prince	22 30 N.	74 24 W.	6	4a, 7	7	1,010.0	ENE	W, 1	WSW	ENE, 7	N-WSW.
Louisiana, Am. M. S	Providence	Port Arthur	29 00 N.	93 30 W.	6	11p, 7	7	1,004.1	SSW	SE, 4	S	SSE, 9	S-SE-SSW.
Seatrain Texas, Am. S. S.	New York	Texas City, Tex.	28 00 N.	93 30 W.	7	4a, 8	8	1,005.4	SSE	S, 8	S	S, 8	SSE-S.
Flora, Du. S. S	Curacao	New York	26 12 N.	74 06 W.	5	9a, 8	8	1,010.7	NE	ENE, 9	ENE	ENE, 9	None.
Mexican, Am. S. S	New York	Cristobal	30 50 N.	73 50 W.	8	4a, 9	10	1,008.1	ESE	SSE, 6	SW	SW, 8	SE-S.
Dungannon, Am. S. S	Port Neches, Tex.	Claymont, Del.	31 48 N.	78 12 W.	10	1a, 10	10	1,013.5		NE. 5		E, 8	NNE-E.
Meton, Am. S. S	Houston	Fall River	32 12 N.	77 42 W.	9	4a, 10	10	1,009.5	N	E, 8	ESE	E, 8	NE-E-ENE.
Maine, Am. S. S	Norfolk	Cristobal	32 00 N.	77 18 W.	10	6p, 10	11	1,005.1	E	ESE, 11	SE	ESE, 12	E-SE.
Bidwell, Am. M. S	Marcus Hook	Port Arthur	[1] 30 39 N.	77 02 W.	10	8p, 10	11	1,006.1	E	E, 8	SE	SE, 9	E-SE.
Jolee, Am. S. S	Norfolk	Houston	31 00 N.	77 00 W.	9	11p, 10	11	999.3	E	E, 10	SE	E, 10	E-ESE.
Tydolgas, Am. S S	New Orleans	New York	32 17 N.	78 29 W.	10	2a, 11	12	993.2	N	ENE, 10	SE	ESE, 12	NE-ESE.
Gulfcrest, Am. M. S	New York	Port Arthur	30 48 N.	80 30 W.	11	7a, 11	11	1,003.7		WNW, 8		WNW, 8	NW-W.
Alamo, Am. S. S	Tampa	New York	31 40 N.	77 56 W.	10	8a, 11	11	1,001.0	NW	SW, 9	SE	S, 10	NW-S.
Monterey, Am. S. S	Habana	do	31 35 N.	79 00 W.	11	9p, 11	12	1,008.1	SW	SSE, 8	SE	SSE, 9	SW-SSE.
Cayuga, U. S. C. G	On station	No. 1	39 00 N.	58 30 W.	15	8a, 15	15	1,010.2	SW	SW, 8	NNW	SW, 8	SW-N.
Steel Traveler, AM. S. S.	Cristobal	Boston	39 42 N.	69 48 W.	18	7a, 19	18	1,008.8	S	SSE, 5	SE	SE, 9	
Champlain, U. S. C. G	On station	No. 1	39 00 N.	58 48 W.	26	2a, 27	27	1,002.4	NE	SW, 9	N	SW, 10	NE-SW-WSW.
Gulfhawk, Am. M. S	New York	Las Piedras	32 20 N.	71 15 W.	30	10p, 30	31	1,009.5	ESE	ESE, 8	SE	ESE, 9	ESE-SE.
Kailua, Am. S. S	Cristobal	New York	32 45 N.	74 13 W.	31	1p, 31	31	999.0	NNW	NW, 9	W	NW, 9	NNW-W.
NORTH PACIFIC OCEAN													
Agwidale, Am. S. S	Honolulu	Balboa	15 29 N.	109 25 W.	3	2p, 3	3	[2] 1,008.5	NE	E, 7	E	E, 7	
Liberator, Am. S. S	do	do	15 38 N.	113 00 W.	3	1a, 4	4	1,005.4	NE	ESE, 8	ESE	ESE, 8	NE-ESE.
City of Alma, Am. S. S	do	do	18 14 N.	120 08 W.	5	9p, 5	6	[2] 1,008.5	NE	NNE, 8	NE	NNE, 8	
Denali, Am. S. S	Nome	Seattle	53 54 N.	161 30 W.	5	2p, 5	5	1,002.4		SW, 8		SW, 8	
W. S. Miller, Am. S. S	El Segundo	Nagaeva, U. S. S. R.	49 42 N.	146 30 W.	9	7a, 9	9	994.9	S	W, 11	WNW	W, 11	SSW-WNW.
Michigan, Am. S. S	Balboa	Los Angeles	14 20 N.	95 00 W.	20	4a, 20	20	1,009.5	N	N, 6	NE	NNE, 7	N-NNE.

[1] Position approximate.
[2] Barometer uncorrected.

WEATHER ON THE NORTH PACIFIC OCEAN

By Willis E. Hurd

Atmospheric pressure.—Barometric conditions over the North Pacific showed some extraordinarily unusual irregularities for summer, as compared with the normal, during August 1940. These conditions were peculiarly pronounced over the Gulf of Alaska and adjacent regions, and among the lower islands of Japan.

In the Gulf of Alaska pressure was exceedingly low for the month. At Kodiak the average pressure was 1,004.4 millibars (29.66 inches), the lowest of record for the month in at least the past 15 years, which is 6.8 millibars (0.20 inch) below the August normal. Lessening minus departures extended eastward to Juneau, and southward to Tatoosh Island, and in some degree westward across the entire Aleutian region. The lowest reading at Kodiak was 984 millibars (29.06 inches), on the 27th.

At the southwestern extreme of the ocean, both Naha, in the Nansei Islands, and Titijima, in the Ogasawaras, had pressures that averaged 4.4 millibars (0.13 inch) above the normal of the month.

Most central areas of the Pacific were under the influence of high pressure, unbroken except by minor LOWS.

TABLE 1.—*Averages, departures, and extremes of atmospheric pressure at sea level, North Pacific Ocean July 1940, at selected stations*

Stations	Average pressure	Departure from normal	Highest	Date	Lowest	Date
	Millibars	*Millibars*	*Millibars*		*Millibars*	
Point Barrow	1,010.5	−1.7	1,019	20, 22	999	29
Dutch Harbor	1,008.4	−2.8	1,024	10	995	2, 3
St. Paul	1,007.4	−1.1	1,023	10	990	5
Kodiak	1,004.4	−6.8	1,022	20	984	27
Juneau	1,012.5	−4.1	1,025	18	990	29
Tatoosh Island	1,018.6	+2.7	1,027	4	1,010	26
San Francisco	1,014.2	−1.0	1,020	19	1,010	22
Mazatlan	1,011.4	+0.9	1,016	3	1,007	17
Honolulu	1,014.9	−1.4	1,017	14	1,012	26
Midway Island	1,020.7	+2.1	1,024	6, 7, 25	1,015	27
Guam	1,009.2	−0.6	1,019	1	1,003	24
Manila	1,007.3	+0.2	1,012	5, 11	1,002	28, 29
Hong Kong						
Naha	1,009.8	+4.4	1,015	[1] 4	987	23
Titijima	1,012.2	+4.4	1,023	4	1,008	25
Petropavlovsk	1,009.6	−0.6	1,017	30	997	9

[1] And on other dates.

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.—August, like the preceding July, appears to have been extraordinarily quiet over northern and central North Pacific waters. Unfor-