

WEATHER OF THE ATLANTIC AND PACIFIC OCEANS
551.506 (726/17)
NORTH ATLANTIC OCEAN

By F. A. YOUNG

The weather over the North Atlantic during July was exceptionally favorable, as up to time of writing only 11 storm reports have been received. The steamer lanes were practically clear of gales, as all of the reports were received from vessels near land, with the exception of two that were from 300 to 400 miles northeast of the Azores. About the only outstanding feature of the month was the unusually strong winds encountered in the vicinity of the Canal Zone that will be referred to later. Owing to the lack of marked cyclonic disturbances, it was not considered advisable to publish the usual charts.

As is often the case during a period of light winds, fog was unusually prevalent over a large portion of the ocean. It was reported on from 16 to 18 days over the Grand Banks and off the American coast, north of the fortieth parallel; from 10 to 12 days over the greater part of the steamer lanes, and from 2 to 5 days off the coast of Europe.

TABLE 1.—Averages, departures, and extremes of atmospheric pressure at sea level, 8 a. m., (seventy-fifth meridian). North Atlantic Ocean, July, 1929

Stations	Average pressure	Departure	Highest	Date	Lowest	Date
	Inches	Inch	Inches		Inches	
Julianaab, Greenland	29.84	(¹)	30.20	21st	29.32	11th.
Belle Isle, Newfoundland	29.82	² -0.05	30.14	20th	29.34	3d.
Halifax, Nova Scotia	29.99	³ +0.04	30.34	21st	29.62	2d.
Nantucket	30.03	³ +0.05	30.38	21st	29.54	2d.
Hatteras	30.08	³ +0.04	30.30	12th	29.80	2d.
Key West	30.06	³ +0.02	30.18	25th	29.92	19th.
New Orleans	30.06	³ +0.03	30.14	6th ⁴	29.82	19th.
Cape Gracias, Nicaragua	29.91	² 0.00	30.02	14th	29.84	17th.
Turks Island	30.13	³ +0.06	30.22	25th	30.04	18th.
Bermuda	30.27	³ +0.09	30.44	21st	30.04	17th.
Horta, Azores	30.28	² +0.01	30.50	6th	29.94	1st.
Lerwick, Shetland Islands	29.90	² +0.10	30.25	15th	29.35	31st.
Valencia, Ireland	30.01	² +0.03	30.43	13th	29.41	31st.
London	30.04	² +0.06	30.41	14th	29.48	31st.

¹ No normal available.
² From normals shown on Hydrographic Office Pilot Chart, based on observations at Greenwich mean noon, or 7 a. m. seventy-fifth meridian.
³ From normals based on 8 a. m. observations.
⁴ And on other dates.

On the 2d a well-developed depression was central near Father Point, Quebec; this moved northeastward,

and on the 3d was over the Straits of Belle Isle. On both days moderate gales were reported by vessels between the fortieth parallel and Nova Scotia.

On the 4th and 5th a disturbance was central in the British Isles, and moderate northerly and westerly gales occurred in the westerly and southerly quadrants, respectively.

On the 7th easterly winds of force 8 were encountered in the vicinity of the Canal Zone, as shown by report in table from the American steamship *Steel Seafarer*.

From the 8th to the 14th moderate weather with comparatively high pressure prevailed over the ocean as a whole, except that on the 9th southwesterly and southerly winds of force 7 were reported by vessels in the middle and eastern sections of the steamer lanes, respectively.

The British mine sweeper *Loriga*, Capt. H. E. Large; observer, E. Bantes, third officer, from London to Canal Zone, reported an easterly wind, force 9, at 8 a. m. on the 15th, in 12° 57' N., 73° 53' W. The wind remained nearly constant in direction and force for 24 hours. The barometer read 29.93 inches on the 15th and 29.88 inches at 8 a. m. on the 16th.

On the 21st and 22d a disturbance was central about 300 miles northeast of the Azores, with a westerly wind of force 9 near the center on the latter day.

From the 22d to 30th moderate weather prevailed with generally high pressure, the North Atlantic high being unusually well developed. These conditions continued until the 31st over the ocean as a whole, except for a well developed low on that day central off the west coast of Ireland, with a barometric reading of 29.08 inches at Blacksod and westerly gales in the southerly quadrants.

Waterspout.—British steamship *Missouri*, Capt. F. Hutt; observer, A. L. Hill, third officer. From Newport News to London. At 6:45 p. m. on the 11th in 38° 41' N., 57° 49' W. sighted small waterspout, distant about 4 miles, extending from sea to base of dense cumulo-nimbus clouds. Height of spout by sextant angle 1,400 feet. At time of sighting, wind veered to NW., force 4, from W. Barometer 30.22 inches. Temperature; air 83°, wet 79°, water 80°. The spout was traveling in a SSE. direction, and at 7:10 p. m. was shut out by heavy rain that was accompanied by vivid lightning and heavy thunder.

OCEAN GALES AND STORMS, JULY, 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													
Exmoor, Am. S. S.	Seville	New York	41° 04' N	62° 58' W	July 2	4 p., 2	July 2	29.53	S	WSW	SW	SW, 8	
Exbrook, Am. S. S.	Alexandria	Boston	42° 00' N	59° 52' W	3	6 p., 3	3	29.59	SSW	S, 8	SW	S, 8	SSW-S.
Abercos, Am. S. S.	Galveston	Liverpool	50° 03' N	16° 10' W	3	10 p., 3	4	29.75	NW	NW, 7	NW	NW, 8	Steady.
Duquesne, Am. S. S.	Manchester	Galveston	50° 30' N	9° 13' W	4	11 a., 4	5	29.44	SW	NW, 7	NNW	W, 9	
Australien, Dan. M. S.	Antwerp	St. Thomas	49° 45' N	5° 30' W	5	4 a., 5	5	29.83	WSW	SW, 7	NW	W, 8	WSW-W.
Steel Seafarer, Am. S. S.	New York	Honolulu	11° 50' N	78° 50' W	5	—, 7	7	30.01	E	ENE	NE	E, 8	E-NE.
Excelsency, Am. S. S.	do	Gibraltar	35° 58' N	5° 25' W	12	4 p., 12	12	30.04	E	E, 8	E	E, 8	Steady.
West Hika, Am. S. S.	Rotterdam	Tampa	43° 51' N	23° 00' W	20	2 p., 20	21	29.56	W	W, 6	NW	—, 8	W-NW.
Middleham Castle, Br. S. S.	Antwerp	do	43° 41' N	20° 15' W	20	4 a., 21	21	29.58	SW	WSW, 9	W	—, 9	SW-W.
Bird City, Am. S. S.	Copenhagen	Baltimore	57° 55' N	6° 21' E	24	8 a., 24	25	29.55	W	W, 7	NW	NW, 8	W-NW.
Polybius, Am. S. S.	Avonmouth	New Orleans	51° 20' N	3° 10' W	30	3 p., 30	Aug. 2	29.44	W	W, 8	N	NW, 8	W-NW.
NORTH PACIFIC OCEAN													
Ensley City, Am. S. S.	Shanghai	Honolulu	31° 00' N	127° 00' E	1	4 p., 1	July 1	29.13	NE	N, 10	NW	N, 10	NE-N.
Warwick, Am. S. S.	Los Angeles	Vancouver	41° 15' N	124° 40' W	6	—, 6	8	29.96	N	N, 9	N	N, 9	Steady.
Olympia, Am. S. S.	Everett	Yokohama	52° 19' N	157° 57' W	7	1 a., 7	8	30.11	WSW	WSW, 7	SW	SW, 8	WSW-SW.
Wray Castle, Br. S. S.	Panama	Manila	16° 00' N	135° 15' E	15	4 a., 17	19	29.65	S	S, 8	SW	S, 8	S-SW.
Everett, Am. S. S.	Tacoma	Yokohama	50° 59' N	176° 23' W	15	10 a., 16	18	29.66	SW	S, 8	W	S, 8	Steady.
Do	do	do	49° 24' N	173° 00' E	19	4 p., 19	20	29.20	S	SSW, 9	WSW	SSW, 9	SSW-SW.
Admiral Peoples, Am. S. S.	San Francisco	Portland	41° 44' N	124° 40' W	26	9 a., 26	26	29.88	NW	NW, 8	NW	NW, 8	Steady.