

WEATHER OF NORTH AMERICA AND ADJACENT OCEANS

NORTH ATLANTIC OCEAN

By F. A. YOUNG

The following table shows the average sea-level pressure and departure for the month as well as the highest and lowest barometric readings at a number of land stations on the coast and islands of the North Atlantic. The readings are for 8 a. m. 75th meridian time, and the departures are only approximate, as the normals are taken from the Pilot Chart and were based on Greenwich mean moon observations, which correspond to those taken at 7 a. m., 75th meridian time.

Station	Average pressure	Departure	Highest	Date	Lowest	Date
	Inches	Inches	Inches		Inches	
St. Johns, Newfoundland.....	29.94	0.00	30.34	1 12th	29.14	15th.
Nantucket.....	30.09	0.00	30.60	30th	29.34	14th.
Hatteras.....	30.17	+0.05	30.44	1 5th	29.70	13th.
Key West.....	30.03	+0.01	30.28	17th	29.76	30th.
New Orleans.....	30.15	+0.04	30.56	17th	29.74	12th.
Swan Island.....	29.87	-0.05	29.96	1 17th	29.76	4th.
Turks Island.....	30.01	0.00	30.08	1 7th	29.88	23d.
Bermuda.....	30.14	+0.06	30.40	19th	29.76	24th.
Horta, Azores.....	30.05	-0.07	30.42	9th	29.70	2d.
Lerwick, Shetland Islands.....	29.90	+0.20	30.49	1 17th	29.44	9th.
Valencia, Ireland.....	29.89	+0.09	30.04	10th	28.98	7th.
London.....	29.94	0.00	30.51	19th	29.02	7th.

¹ And on other dates.

The number of days with winds of gale force was not as large as in October, which was an unusually stormy month, and over the steamer lanes the conditions did not differ materially from the normal for November, as shown on the Pilot Chart. The most unfavorable weather occurred west of the 50th meridian, between the 30th and 45th parallels, where gales were reported on from 3 to 8 days. In the 5-degree square that includes Tampico, Mexico, gales were reported on 4 days and in the square between the 25th and 30th parallels and the 85th and 90th meridians, on 3 days.

The number of days with fog over the Grand Banks and off the New England coast was greater than in October, but less than the normal for the current month for these localities; judging from reports received, the middle and eastern sections of the steamer lanes were comparatively free from fog.

The disturbance that on October 31 was over the middle section of the steamer lanes moved steadily eastward, and on November 1 was central near 53° N., 23° W., where a barometric reading of 28.73 inches was recorded, and winds of gale force swept the ocean east of the 50th meridian. This low apparently moved but little during the next 24 hours, and on the 2d the storm area had contracted considerably in extent, and moved south from its former position, as southerly gales now prevailed in the vicinity of the Azores.

On the 3d northwesterly gales occurred over the middle section of the northern steamer lanes, and there was also a slight depression near the Bermudas that afterwards developed into a severe disturbance.

On the 4th the conditions had changed but little since the previous day, and the southern depression was central near 35° N., 55° W. While moderate winds prevailed in this vicinity at the time of observation, heavy weather was encountered later in the day, as shown by storm reports. On the 4th northeasterly gales were reported from the region between the Bermudas and

American coast, accompanied, in some cases, by comparatively high barometric readings. Easterly winds of gale force also occurred in the Gulf of Mexico.

Charts VIII to XI cover the period from the 5th to 8th, inclusive, when unusual conditions prevailed due to the slow moving southern depression and the fast traveling northern low that was responsible for very stormy weather over the steamer lanes. This was an unusually severe and protracted storm, and caused considerable damage to shipping and delay in the passage of a number of vessels.

On the 9th the northern disturbance was still over the North Sea and the southern low had moved but little since the previous day. They had both decreased in intensity and moderate weather was the rule except over a limited region off the South European coast where moderate northwesterly gales continued.

By the 10th the southern depression had filled in and the northern disturbance was no longer within the limits of the chart. On this date another low began to develop over the region between Greenland and Newfoundland, although at the time of observation moderate winds were the rule. On the 10th northwesterly winds of gale force were also reported from the western portion of the Gulf of Mexico.

On the 11th westerly gales, accompanied by hail and snow, were encountered in the middle section of the steamer lanes and northeasterly gales off the coast of Portugal. At the time of observation on the 11th moderate winds were reported from the Gulf of Mexico that increased to gale force later in the day.

On the 12th westerly gales continued in mid-ocean and southeasterly gales prevailed along the American coast between Chesapeake Bay and Florida.

On the 13th the American coast low was central near Nantucket, the storm area extending from Bermuda to Maine. This disturbance moved but little during the next 24 hours, but by the 14th the storm area was north of its former position and now covered the region between the 35th parallel and Newfoundland. On the same day there was a depression near the Azores that afterwards developed into a disturbance of moderate force and extent.

On the 15th a trough of low pressure extended from the north into the Gulf of Mexico near Pensacola, where a barometric reading of 29.76 inches was recorded, while at Brownsville, Tex., the reading was 30.24 inches. As a result of the steep pressure gradient heavy northerly gales were encountered in the western portion of the Gulf, between the 90th meridian and Mexican coast. On the 15th gales were also encountered over the greater part of the steamer lanes, west of the 30th meridian, and the southern depression of the 14th was now central near 40° N., 15° W.

On the 16th there was a low over Quebec, and heavy winds prevailed between the 30th and 45th parallels, west of the 65th meridian. On the same day there were also two lows over the ocean; the first near 50° N., 37° W., and the southern depression that had moved but little since the 15th.

On the 17th the Canadian disturbance was central near Father Point, and westerly gales prevailed along the coast between Hatteras and Newfoundland. The low that was in mid-ocean on the 16th moved rapidly northeastward, losing in intensity, and on the 17th was probably somewhere in the vicinity of Iceland, although it was impossible to plot its position accurately, due to

lack of observations. The southern depression, remaining nearly stationary off the coast of Portugal, had begun to fill in, and moderate weather prevailed in the vicinity.

On the 18th the western Low was central near Belle Isle, and northerly to northwesterly gales were encountered by vessels in the southerly quadrants, the storm area extending as far south as the Bermudas.

From the 19th to the 21st moderate conditions were the rule over practically the entire ocean, although there was a slight depression between the 35th meridian and Madeira that was accompanied by winds of moderate gale force over a limited area.

On the 22d there was a Low central near St. Johns, Newfoundland, where moderate winds prevailed at time of observation, although afterwards increasing in intensity as it moved northeastward. On the 22d westerly winds of moderate gale force occurred in the Caribbean Sea, as shown by report in table.

On the 23d Nantucket was near the center of a Low, and storm reports were received from vessels in the southerly quadrants as well as those in mid-ocean.

On the 24th there was a disturbance central near Father Point that moved rapidly eastward, and on the

25th was over eastern Newfoundland. On both of these dates gales were reported from a limited region north of the 40th parallel, between the 50th and 60th meridians.

On the 26th the center of this disturbance was near Belle Isle, and moderate gales occurred in the easterly and southerly quadrants, storm reports being received from vessels as far south as the 35th parallel. The conditions changed but little during the next 24 hours, and the Low remained nearly stationary. On the 27th there was also a slight depression near 35° N., 43° W., that afterwards developed into a severe disturbance, as it drifted slowly eastward. On the 30th it was central near 37° N., 37° W., and surrounded by moderate winds. On the 27th and 28th winds of moderate gale force were encountered off the coast of Northern Europe.

On the 28th and 29th there was a "norther" in the Gulf of Mexico, where winds of gale force prevailed, accompanied by comparatively high barometric readings.

On the 30th there was a Low in the Gulf of Mexico that developed into a severe disturbance, as it moved northward along the American coast. An account of this storm will appear in the MONTHLY WEATHER REVIEW for December.

OCEAN GALES AND STORMS, NOVEMBER, 1925

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													
Duquesne, Am. S. S.	Manchester	New Orleans	50 04 N.	10 15 W.	1st	2 p., 1st	2d	29.07	SSW	E., 9	SW	S., 9	S.-WSW.
Westerner, Am. S. S.	Antwerp	Boston	40 15 N.	27 32 W.	1st	Noon, 2d	2d	29.58	SSW	SSW, 9	NNW	SW, 9	SW.-NNW.
Eastern Victor, Am. S. S.	Rotterdam	Philadelphia	36 34 N.	65 15 W.	3d	11p., 3d	5th	29.78	SE	N.E., 7	E	N., 10	W.-NW.-NE.
Eibergen, Du. S. S.	Montreal	Rotterdam	52 36 N.	39 10 W.	2d	9p., 4th	5th	29.44	WNW	W., 8	SW	WSW, 10	W.-WSW.
H. M. Story, Am. S. S.	Cristobal	Halifax	33 53 N.	68 07 W.	4th	8a., 4th	5th	30.00	NNE	N.E., 8	NE	N.E., 11	NNE.-NE.
Davision, Br. S. S.	Boston	Liverpool	48 00 N.	33 00 W.	5th	7p., 5th	8th	28.94	ESE	S., 12	N	S., 12	S.-SW.
City of Fairbury, Am. S. S.	Antwerp	Houston	30 00 N.	58 05 W.	5th	Noon, 5th	6th	29.74	NW	N.E., 9	NNE	NNE., 9	NW.-NNE.
Gulfquean, Am. S. S.	New Orleans	San Pedro	21 05 N.	85 00 W.	4th	5a., 6th	7th	29.92	E	E., 8	E	E., 8	Steady.
Marguerite Finaly, Fr. S. S.	Rouen	Bermuda	31 45 N.	68 20 W.	5th	5a., 7th	8th	29.73	NE	NNE	N	N.E., 9	NE.-N.
Haarlem, Du. S. S.	Amsterdam	Cristobal	47 20 N.	10 40 W.	6th	—, 7th	10th	29.00	SW	SW., 10	WNW	W., 12	SSW.-W.
Incomore, Br. S. S.	Belfast	New York	55 13 N.	14 57 W.	6th	8a., 7th	9th	29.07	NW	E., 10	NW	N.E., 10	SE.-E.
Westerner, Am. S. S.	Antwerp	Boston	39 30 N.	49 00 W.	7th	2a., 8th	8th	29.80	ENE	ENE., 10	ENE	ENE., 11	Steady.
Tegucigalpa, Hond. S. S.	Vera Cruz	New Orleans	20 00 N.	96 00 W.	9th	7p., 9th	10th	29.82	WNW	WNW., 8	WNW	WNW., 8	Do.
Incomore, Br. S. S.	Belfast	New York	50 41 N.	42 23 W.	11th	8a., 11th	12th	29.63	WNW	NW., 8	W	NW., 10	NNW.-NW.
City of St. Joseph, Am. S. S.	New York	Mediterranean	38 01 N.	13 48 W.	10th	3a., 11th	11th	29.90	NNW	NNE., 9	N	NNW., 9	NNW.-NNE.
E. R. Kemp, Am. S. S.	Houston	Portsmouth, Va.	26 40 N.	88 15 W.	11th	10p., 11th	12th	29.75	S	S	S	—, 8	S.-SW.
Sixsols, Am. S. S.	New York	Kingston	34 48 N.	73 59 W.	12th	Mid., 12th	13th	29.61	SE	SE., 10	W	—, 10	S.-W.-N.
Atenas, Am. S. S.	New Orleans	Cristobal	27 54 N.	87 50 W.	12th	4a., 12th	12th	29.76	S	S., 7	W	SW., 8	S.-W.
Columbia, Am. S. S.	Cristobal	New York	34 20 N.	75 55 W.	11th	Mid., 12th	13th	29.60	ENE	SW., 9	SW	SE., 9	SE.-SSW.
United States, Dan. S. S.	New York	Christian-sand	40 47 N.	68 37 W.	13th	7a., 13th	14th	29.41	SE	SE., 9	SSW	SE., 9	SE.-SSW.
Albert Ballin, Ger. S. S.	Hamburg	New York	41 41 N.	64 00 W.	14th	6p., 14th	16th	29.27	WSW	W., 9	NW	W., 9	WSW.-W.
Leguna, Br. M. S.	Colon	Santander	40 18 N.	18 30 W.	14th	—, 14th	16th	29.57	SW	NW., 7	N	NW., 8	SE.-NW.
Virginia, Am. S. S.	Jacksonville	Port Arthur	22 22 N.	97 16 W.	15th	4a., 15th	16th	29.90	N	N	N	N., 10	Steady.
El Oriente, Am. S. S.	New York	Galveston	36 00 N.	74 50 W.	15th	2p., 15th	16th	29.63	S	S	S	S., 10	Do.
Hoosac, Br. S. S.	Halifax	Liverpool	47 54 N.	47 57 W.	15th	8 p., 15th	17th	29.19	WSW	WSW	N	—, 11	WSW.-N.
Pres. Roosevelt, Am. S. S.	Cherbourg	New York	47 00 N.	36 20 W.	15th	Mid., 15th	16th	29.44	S	SW., 8	NNW	SSW., 10	SW.-WSW.
American Press, Am. S. S.	New Orleans	Glasgow	37 40 N.	67 53 W.	16th	1p., 16th	16th	29.71	S	W., 10	NW	W., 10	S.-W.
Rochambeau, Fr. S. S.	Havre	New York	49 30 N.	35 00 W.	16th	—, 16th	17th	29.34	S	S., 10	N	S., 12	SW.-SSW.
Parthenia, Br. S. S.	Montreal	Glasgow	56 03 N.	23 42 W.	16th	7a., 16th	16th	29.95	SW	SSW., 10	SSW	SSW., 10	W.-NNW.
Patris, Fr. S. S.	Palermo	New York	36 57 N.	55 39 W.	17th	6p., 17th	19th	29.92	W	W., 7	NW	WNW., 10	Steady.
Venezuela, Du. S. S.	Dover	Barbados	36 10 N.	35 20 W.	20th	4p., 20th	21st	29.82	WNW	WNW., 7	WNW	WNW., 8	Steady.
Atenas, Am. S. S.	Cristobal	New Orleans	18 06 N.	86 10 W.	22d	11a., 22d	22d	29.85	SW	SW., 5	NW	NW., 8	SW.-N.
Bennedijk, Du. S. S.	Rotterdam	New York	41 13 N.	65 07 W.	23d	11a., 23d	23d	29.21	SSE	Calm	Calm	—, 10	SSE.-SW.
Sinsinawa, Am. S. S.	Valencia, Spain	do	32 59 N.	38 03 W.	23d	Noon, 23d	24th	29.57	SE	NW., 7	N	N., 9	SE.-NW.-N.
Republic, Am. S. S.	New York	Cobh, Ireland	42 00 N.	52 55 W.	23d	2a., 25th	25th	29.40	SSE	S., 8	SW	SE., 11	SE.-SW.
Sueric, Br. S. S.	Oran	Philadelphia	35 40 N.	50 39 W.	26th	1a., 27th	28th	29.85	SSW	NW., 10	N	NW., 10	SSW.-NW.-N.
American Press, Am. S. S.	New Orleans	Glasgow	55 18 N.	9 30 W.	28th	5a., 28th	28th	30.03	N	NNW	N	NNW., 8	N.-NNW.
War Nizam, Br. S. S.	Curacao	Rotterdam	33 20 N.	37 06 W.	28th	4p., 30th	Dec., 2d	29.55	NNW	NNW., 7	NW	NW., 8	NNW.-N.
San Jacinto, Am. S. S.	Galveston	New York	25 25 N.	85 38 W.	29th	4p., 30th	Dec. 1st	29.68	NE	N.E., 8	WNW	N.E., 8	NE.-N.
NORTH PACIFIC OCEAN													
West Farolan, Am. S. S.	San Francisco	Yokohama	34 20 N.	143 E.	2d	2a., 3d	3d	29.51	NNW	N.E.	N	N.E., 8	Variable.
Pres. Madison, Am. S. S.	Seattle	do	51 38 N.	165 17 W.	1st	10 a., 3d	4th	29.02	NNW	W., 8	W	W., 10	SSE.-W.
Iyo Maru, Jap. S. S.	Victoria	do	52 N.	108 59 W.	4th	10 a., 5th	6th	28.53	SSE	SSE., 7	SW	SSE., 10	SSE.-SW.
India Arrow, Am. S. S.	Shanghai	San Francisco	41 12 N.	163 28 E.	6th	6 a.	5th	29.41	NW	NW., 5	NNW	NW., 8	NW.-NNW.