North Atlantic hurricanes and tropical disturbances of 1942

[Number of storm in table corresponds to number of path on accompanying chart]

Storm	Date	Place where first reported	Coast lines crossed	Maximum wind velocity reported	Lowest barometer reported	Place of dissipation	Intensity	Remarks
I	Aug. 18-22	Yucatan Channel	Texas	72 miles per hour SE., Port Arthur, Tex.	993.9 millibars (29.35 inches), Gilchrist, Tex.	East-Central Texas.	Near hurricane intensity.	No loss of life or serious injury reported; wind damage to property estimated $180,000 to crops $400,000; and additional $21,000 from high tides.
II	Aug. 25-26	Southeast of Bermuda.	None	64 miles per hour reported at Bermuda.	No data [1]	Northeast of Bermuda.	Likely of hurricane intensity.	Complete history lacking.
III	Aug. 21-30	Windward Islands near Santa Lucia.	Yucatan and Texas.	115 miles per hour N. (estimated), Seadrift, Tex.	951.6 millibars (28.10 inches), Seadrift, Tex.	Southern Texas	Full hurricane	8 lives lost in Texas, damage estimated $11,500,000 to property, $15,000,000 to crops.
IV	Sept. 15-22	Windward Islands near Santa Lucia.	British Honduras.	Beaufort force 6	1,002.4 millibars (29.60 inches), Swan Island.	Central British Honduras.	Not of hurricane intensity.	No gales reported.
V	Oct. 1-3	Northeast of Bahama Islands.	None	Attended by large area of gale winds.	No data [1]	Unknown	Unknown from available reports.	Attended by wide area of gale winds and dangerous squalls as it passed east of Bermuda.
VI	Oct. 10-12	Northeast of Bahama Islands.	North Carolina.	Gale winds near center.	do.[1]	Eastern North Carolina.	Probably not of hurricane intensity.	No damaging winds reported, heavy rainfall over northeastern North Carolina.
VII	Oct. 13-18	Caribbean Sea south of eastern Cuba.	Cuba	No winds over strong (25-38 miles per hour).	do.[1]	North Atlantic southeast of New England.	Not of hurricane intensity.	No reports of damaging winds.
VIII	Nov. 5-11	Near Puerto Rico	Cuba and British Honduras.	70 miles per hour NE., Paredon Grande Cay, Cuba.[2]	991.5 millibars (29.28 inches), Belize, British Honduras.	Interior of Yucatan Peninsula.	Full hurricane	9 lives lost on the Yucatan Peninsula, estimated $4,000,000 damage in British Honduras.

[1] Restriction of radio reports has resulted in a scarcity of material on storms that expended their greatest energy over water surfaces, without seriously affecting coastal areas.
[2] Higher wind velocities undoubtedly occurred in British Honduras, but records are not available.

METEOROLOGICAL AND CLIMATOLOGICAL DATA FOR APRIL 1943

[Climate and Crop Weather Division, J. B. KINCER, in charge]

AEROLOGICAL OBSERVATIONS

NOTICE.—Effective with the December 1942 issue, the publication of table 1 (RAOB summaries) was discontinued indefinitely.—EDITOR.

TABLE 2.—*Free-air resultant winds based on pilot-balloon observations made near 5 p. m. (75th meridian time) during April 1943. Directions given in degrees from north (N=360°, E=90°, S=180°, W=270°). Velocities in meters per second*

Altitude (meters) m. s. l.	Abilene, Tex. (538 m.)			Albuquerque, N.Mex. (1,630 m.)			Atlanta, Ga. (299 m.)			Billings, Mont. (1,095 m.)			Bismarck, N. Dak. (512 m.)			Boise, Idaho (870 m.)			Brownsville, Tex. (7 m.)			Buffalo, N. Y. (220 m.)			Burlington, Vt. (132 m.)			Charleston, S. C. (17 m.)			Cincinnati, Ohio (152 m.)			Denver, Colo. (1,627 m.)			El Paso, Tex. (1,196 m.)		
	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity
Surface	30	162	3.2	30	212	2.3	29	289	3.3	30	349	3.0	30	251	0.8	29	284	1.8	30	123	6.2	27	273	4.0	29	260	0.9	29	232	2.3	29	258	1.8	30	69	1.4	30	234	3.2
500							29	289	3.7										30	126	6.2	27	270	5.1	29	268	1.8	29	232	4.1	29	266	2.7						
1,000	30	175	4.7				29	268	4.4				30	280	1.9	29	287	2.0	24	154	3.5	22	264	6.3	24	299	4.7	29	251	4.6	28	262	3.9						
1,500	30	182	4.3				29	275	5.2	30	346	2.0	28	273	3.2	29	280	1.9	22	170	1.9	16	297	4.9	17	291	5.6	28	272	7.1	26	272	6.8				30	238	2.8
2,000	29	209	4.6	30	216	2.9	28	278	6.4	29	297	1.7	24	292	4.6	28	234	1.7	21	193	1.2	12	302	5.7	11	303	7.7	28	289	9.6	22	284	7.9	30	70	7.8	30	219	2.6
2,500	28	229	5.0	30	234	3.2	27	287	9.0	27	267	3.8	23	290	5.1	27	232	3.5	19	201	1.3				10	304	8.8	27	289	11.6	14	288	6.6	30	202	1.2	30	220	2.6
3,000	26	243	5.2	30	239	4.6	23	295	12.2	26	267	5.8	22	311	6.8	25	236	5.4	18	233	3.3				10	303	10.5	26	289	13.1	13	291	9.1	29	238	3.7	29	234	3.6
4,000	27	258	7.3	29	257	5.9	19	300	14.4	22	274	9.7	19	307	10.3	23	243	7.4	17	263	6.4							24	299	15.9	11	296	14.8	24	275	7.0	28	244	6.5
5,000	24	269	9.7	28	253	7.5	19	304	15.4	17	279	11.9	18	305	13.1	19	238	7.5	16	272	7.6							19	301	17.8				18	277	9.7	28	250	9.1
6,000	22	275	11.5	26	257	9.0	18	302	17.0	14	282	14.3	16	307	17.4	18	256	7.0	13	271	10.4							17	305	16.0				18	283	12.1	27	256	11.5
8,000	17	291	12.1	18	270	10.1				11	296	15.7				12	268	10.7	10	285	8.9													11	286	12.7	23	270	13.7
10,000	14	302	14.5	15	270	12.0																															17	284	11.8
12,000	10	333	16.0	10	283	12.3																															11	286	13.6

TABLE 2.—*Free-air resultant winds based on pilot-balloon observations made near 5 p. m. (75th meridian time) during April 1943. Directions given in degrees from north (N=360°, E=90°, S=180°, W=270°). Velocities in meters per second*—Continued

Altitude (meters) m. s. l.	Ely, Nev. (1,910 m.)			Grand Junction, Colo. (1,413 m.)			Greensboro, N. C. (271 m.)			Havre, Mont. (767 m.)			Jacksonville, Fla. (16 m.)			Joliet, Ill. (178 m.)			Las Vegas, Nev. (573 m.)			Little Rock, Ark. (88 m.)			Medford, Oreg. (410 m.)			Miami, Fla. (15 m.)			Mobile, Ala. (66 m.)			Nashville, Tenn. (194 m.)			New York, N. Y. (15 m.)		
	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity
Surface	29	193	2.5	30	303	1.3	28	264	3.5	30	280	1.0	29	106	2.0	30	291	1.8	30	165	2.4	27	238	0.6	28	314	2.1	30	100	2.6	29	218	1.4	28	283	2.4	27	289	3.7
500	---	---	---	---	---	---	28	261	5.2	---	---	---	29	211	1.4	30	287	3.1	---	---	---	27	252	1.1	28	306	2.0	29	101	3.9	29	235	2.2	28	277	3.1	27	268	6.3
1,000	---	---	---	---	---	---	27	262	6.7	30	265	1.8	27	248	2.7	30	293	4.3	30	190	3.2	27	265	2.5	28	234	1.8	28	55	1.1	28	276	2.5	27	266	4.2	26	271	7.7
1,500	---	---	---	30	291	2.2	27	269	7.8	30	251	2.3	27	273	5.1	28	286	5.7	30	200	3.4	27	269	6.0	28	225	2.2	27	299	2.2	28	303	4.2	26	271	6.0	24	275	9.1
2,000	29	200	2.4	30	264	2.8	26	282	10.2	26	257	2.9	27	286	6.7	26	290	7.2	30	206	4.9	26	277	8.2	26	218	3.3	25	293	4.8	25	306	6.6	23	285	8.4	13	276	9.5
2,500	29	210	3.2	30	253	3.5	22	288	11.9	23	250	5.2	27	291	7.8	19	296	8.0	29	202	4.3	25	287	9.1	22	210	3.4	19	288	5.0	22	306	8.2	22	287	10.6	---	---	---
3,000	29	203	3.2	28	244	4.3	18	290	13.1	22	259	7.4	24	282	8.7	15	291	8.6	28	207	4.7	24	291	9.3	18	212	4.0	15	302	6.1	20	312	6.8	16	292	14.5	---	---	---
4,000	23	224	3.0	27	235	5.4	16	288	16.5	15	274	10.6	23	291	9.9	12	301	11.4	26	235	4.7	19	300	14.2	13	274	2.2	13	270	5.2	16	297	7.2	14	296	17.5	---	---	---
5,000	18	238	3.8	17	255	4.2	12	298	21.3	11	286	11.8	19	293	11.0	---	---	---	23	241	6.4	16	294	13.6	13	269	4.5	12	292	8.0	11	295	5.6	12	300	21.1	---	---	---
6,000	13	245	8.7	12	269	4.1	11	295	22.7	---	---	---	18	287	11.4	---	---	---	22	241	7.2	13	308	16.5	10	304	4.2	11	291	10.4	---	---	---	---	---	---	---	---	---
8,000	10	259	10.3	---	---	---	---	---	---	---	---	---	14	283	13.1	---	---	---	15	243	9.4	10	298	16.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10,000	---	---	---	---	---	---	---	---	---	---	---	---	12	289	16.2	---	---	---	12	243	14.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12,000	---	---	---	---	---	---	---	---	---	---	---	---	11	295	18.2	---	---	---	10	253	13.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14,000	---	---	---	---	---	---	---	---	---	---	---	---	10	290	23.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Altitude (meters) m. s. l.	Oakland Calif. (8 m.)			Oklahoma City, Okla. (402 m.)			Omaha, Nebr. (306 m.)			Phenix, Ariz. (388 m.)			Rapid City, S. Dak. (982 m.)			St. Louis, Mo. (181 m.)			St. Paul, Minn. (225 m.)			San Antonio, Tex. (240 m.)			San Diego, Calif. (15 m.)			Sault Ste. Marie, (230 m.) Mich.			Seattle, Wash. (12 m.)			Spokane, Wash. (603 m.)			Washington, D. C. (24 m.)		
	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity
Surface	29	257	5.8	30	192	2.3	17	26	1.5	30	279	0.8	28	11	1.9	29	310	0.8	29	341	1.1	30	137	3.0	29	253	3.2	27	304	5.4	29	248	3.4	29	220	2.4	29	255	2.8
500	29	295	3.5	30	186	2.7	17	59	2.2	30	262	1.6	---	---	---	29	295	2.1	29	341	2.2	30	143	3.2	28	286	3.1	27	303	5.6	29	230	3.8	---	---	---	29	266	4.5
1,000	28	295	3.1	30	188	3.0	16	29	1.4	30	232	2.1	28	10	1.8	28	277	3.3	28	310	2.3	30	139	2.8	24	286	2.5	26	317	4.9	27	219	4.2	29	228	4.0	29	274	7.6
1,500	28	275	2.3	30	216	4.0	15	283	2.2	30	206	3.1	28	304	1.4	28	270	4.2	27	308	3.4	30	155	2.5	21	261	2.1	24	316	3.3	26	212	5.9	26	217	3.4	27	268	9.4
2,000	27	274	2.9	28	252	6.1	12	290	6.0	29	199	3.3	28	278	2.5	24	278	7.9	22	281	4.6	28	207	2.7	19	222	2.0	20	311	4.4	26	207	5.1	23	222	3.7	23	283	12.2
2,500	27	254	3.6	27	261	8.4	12	292	10.5	28	203	3.7	26	293	5.1	21	286	8.9	20	289	6.9	24	221	3.5	19	224	2.7	18	312	5.5	23	219	5.1	22	233	4.4	19	296	13.4
3,000	27	261	4.5	26	268	9.9	11	285	13.7	26	216	4.8	23	293	8.1	17	298	13.4	16	309	9.0	23	226	3.5	17	241	3.9	18	308	8.4	20	232	4.5	15	239	2.6	16	300	15.6
4,000	26	266	6.1	22	286	10.0	---	---	---	24	219	7.0	20	290	10.8	14	299	17.0	13	318	15.2	21	269	5.1	15	238	5.9	14	331	10.5	13	268	3.6	13	264	4.8	13	302	18.7
5,000	23	277	6.6	19	286	12.7	---	---	---	22	225	8.9	18	298	14.3	10	295	22.8	13	315	18.4	20	287	6.5	12	247	6.5	11	335	15.7	10	306	4.6	11	265	8.1	12	294	21.2
6,000	20	257	6.5	18	287	15.2	---	---	---	20	232	10.5	15	300	16.6	---	---	---	13	314	23.0	16	298	6.6	10	250	8.2	10	326	19.5	---	---	---	---	---	---	---	---	---
8,000	15	262	6.7	14	298	13.9	---	---	---	17	235	12.0	---	---	---	---	---	---	11	316	26.9	13	287	10.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10,000	---	---	---	---	---	---	---	---	---	10	245	10.0	---	---	---	---	---	---	---	---	---	11	306	11.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 3.—*Maximum free-air wind velocities (M. P. S.), for different sections of the United States, based on pilot-balloon observations during April 1943*

Section	Surface to 2,500 meters (m. s. l.)					Between 2,500 and 5,000 meters (m. s. l.)					Above 5,000 meters (m. s. l.)				
	Maximum velocity	Direction	Altitude (m.) m. s. l.	Date	Station	Maximum velocity	Direction	Altitude (m.) m. s. l.	Date	Station	Maximum velocity	Direction	Altitude (m.) m. s. l.	Date	Station
Northwest [1]	60.0	w.	2,290	28	Phillipsburg, Pa.	50.6	nnw.	4,620	6	Buffalo, N. Y.	73.0	nw.	9,030 10,450	29 29	Portland, Maine.
East Central [2]	39.1	wsw.	1,110	12	Raleigh, S. C.	60.4	nw.	4,710	2	Knoxville, Tenn.	59.5	wnw.	7,010	5	Huntington, W. Va.
Southeast [3]	39.0	nnw.	1,050	2	Spartanburg, S. C.	48.5	w.	4,960	12	Charleston, S. C.	56.6	ssw.	6,850	20	Jacksonville, Fla.
North Central [4]	40.1	sw.	1,570	24	Marquette, Mich.	56.0	nnw.	3,910	5	Marquette, Mich.	68.8	nw.	7,600	30	St. Paul, Minn.
Central [5]	37.4	sw.	1,230	4	Wichita, Kans.	41.8	nw.	4,410	5	Joliet, Ill.	60.8	n.	10,000	19	Wichita, Kans.
South Central [6]	52.4	nw.	1,380	13	Tulsa, Okla.	46.4	nw.	4,320	14	Little Rock, Ark.	62.6	wnw.	8,480	11	Amarillo, Tex.
Northwest [7]	37.5	w.	1,940	3	Havre, Mont.	38.0	wnw.	5,000	22	Billings, Mont.	76.2	wsw.	7,910	24	Great Falls, Mont.
West Central [8]	39.8	nw.	1,620	12	Sheridan, Wyo.	51.0	nw.	4,350	12	Sheridan, Wyo.	67.0	nne.	7,150	13	Redding, Calif.
Southwest [9]	32.5	ssw.	1,180	8	Las Vegas, Nev.	39.5	wnw.	4,340	8	Santa Maria, Calif.	85.0	wsw.	9,110	12	El Paso, Tex.

[1] Maine, Vermont. New Hampshire, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, and northern Ohio.
[2] Delaware, Maryland, Virginia, West Virginia, southern Ohio, Kentucky, eastern Tennessee, and North Carolina.
[3] South Carolina, Georgia, Florida, and Alabama.
[4] Michigan, Wisconsin, Minnesota, North Dakota, and South Dakota.
[5] Indiana, Illinois, Iowa, Nebraska, Kansas, and Missouri.
[6] Mississippi, Arkansas, Louisiana, Oklahoma, Texas (except El Pasco), and western Tennessee.
[7] Montana, Idaho, Washington, and Oregon.
[8] Wyoming, Colorado, Utah, northern Nevada, and northern California.
[9] Southern California, southern Nevada, Arizona, New Mexico, and extreme west Texas.