



2019 Mobile Weather and Marine Almanac



40th Anniversary of Hurricane Frederic

Prepared by
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Research Center



Assisted by
PETE MCCARTY
Coastal Weather
Research Center

www.mobileweatheralmanac.com



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2019 Mobile Weather and Marine Almanac[®]



Dr. Bill Williams

29th Edition



Pete McCarty

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FRONT COVER PHOTO: Mobile’s historic city hall was severely damaged on the evening of September 12, 1979, when powerful Hurricane Frederic made landfall on the Mississippi-Alabama border. The intense eastern eye wall produced gusts of 100 mph across downtown Mobile. (Photo courtesy of U.S. Army Corps of Engineers, Mobile District. The Doy Leale McCall Rare Book and Manuscript Library, U.S.A.)

Astronomical data: U.S. Naval Observatory. Tidal information: National Ocean Survey.

Temperature and precipitation records: Courtesy of the National Weather Service. When a record has been tied in the tables on pages 3-14, only the latest record is shown.

Typography, layout and printing: University of South Alabama Publication Services.

The authors wish to thank **Dr. Keith G. Blackwell** for his contribution on the 2018 hurricane season and **D. Andrew Murray** for his assistance in proofreading the manuscript. Many thanks to **Dewey English** of AL.com and **Deborah Gurt** of the USA Doy Leale McCall Rare Book and Manuscript Library Archive for their valuable assistance with this year’s photographs.

(All temperatures in this book are in Fahrenheit)

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ASTRONOMICAL EVENTS FOR 2019

BEGINNING OF SEASONS

Spring: March 20, 4:58 p.m. CDT

Autumn: September 23, 2:50 a.m. CDT

Summer: June 21, 10:54 a.m. CDT

Winter: December 21, 10:19 p.m. CST

ECLIPSES

In the year 2019 there will be three eclipses of the Sun and two of the Moon.

1. Partial solar eclipse, January 5-6, not visible in Mobile.
2. Total lunar eclipse, January 20-21, visible in Mobile.
3. Total solar eclipse, July 2, not visible in Mobile.
4. Partial lunar eclipse, July 16-17, not visible in Mobile.
5. Annular solar eclipse, December 26, not visible in Mobile.

BEST METEOR SHOWERS

(20 or more meteors at the peak hour)

Name	Peak Period
Quadrantids	Jan. 3-4
Lyrids	Apr. 21-22
Eta Aquariids.....	May 6-7
Delta Aquariids.....	Jul. 29-30
Perseids	Aug. 11-12
Orionids	Oct. 21-22
Geminids	Dec. 13-14

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JANUARY, 2019

All times listed are CENTRAL STANDARD TIME

New Moon



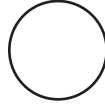
5th 7:28 P.M.

First Quarter



14th 12:45 A.M.

Full Moon



20th 11:16 P.M.

Last Quarter



27th 3:10 P.M.

DAY OF Month Week	SUN		MOON		TEMPERATURE EXTREMES				TEMPERATURE NORMALS			GREATEST PRECIP.*	
	Rise	Set	Rise	Set	High	Year	Low	Year	High	Low	Mean	Total	Year
1 Tue	6:50	5:02	2:44a	2:01p	79	1975	22	1984	61	40	50	5.84	2017
2 Wed	6:50	5:03	3:42a	2:41p	80	2006	18	1928	61	40	50	5.26	1936
3 Thu	6:50	5:04	4:39a	3:23p	79	1989	16	1887	61	40	50	2.15	1886
4 Fri	6:50	5:04	5:34a	4:09p	77	2004	17	1919	61	40	50	2.76	2015
5 Sat	6:51	5:05	6:26a	4:58p	77	2005	18	1999	61	40	50	3.38	1998
6 Sun	6:51	5:06	7:15a	5:49p	77	1936	14	1924	61	40	50	2.73	1945
7 Mon	6:51	5:07	7:59a	6:42p	79	1989	14	2014	60	40	50	6.16	1998
8 Tue	6:51	5:08	8:40a	7:35p	77	1939	17	2015	60	40	50	2.48	1964
9 Wed	6:51	5:09	9:17a	8:28p	78	1957	11	1886	60	40	50	1.26	1999
10 Thu	6:51	5:09	9:52a	9:21p	82	1949	10	1962	60	40	50	2.66	1908
11 Fri	6:51	5:10	10:24a	10:14p	84	1949	7	1982	61	40	50	2.13	1931
12 Sat	6:51	5:11	10:56a	11:08p	78	2015	10	1962	61	40	50	3.24	1892
13 Sun	6:51	5:12	11:27a	-	79	2017	14	1962	61	40	50	2.76	1947
14 Mon	6:51	5:13	Noon	12:03a	79	2017	20	1964	61	40	50	1.58	1977
15 Tue	6:51	5:13	12:36p	1:00a	78	1974	20	1979	61	40	50	1.89	2016
16 Wed	6:50	5:15	1:15p	1:59a	79	1974	20	1927	61	40	50	3.46	1925
17 Thu	6:50	5:15	2:00p	3:01a	79	2017	15	1977	61	40	50	3.15	1926
18 Fri	6:50	5:16	2:52p	4:06a	80	2017	16	1948	61	40	50	3.88	1943
19 Sat	6:50	5:17	3:51p	5:11a	78	1950	12	1977	61	40	50	3.18	1963
20 Sun	6:49	5:18	4:57p	6:13a	78	1974	9	1985	61	40	50	5.71	2010
21 Mon	6:49	5:19	6:06p	7:12a	78	2012	3	1985	61	40	50	2.67	1877
22 Tue	6:49	5:20	7:17p	8:04a	81	1952	16	1985	61	40	50	3.70	1965
23 Wed	6:48	5:20	8:26p	8:51a	79	2002	18	1963	61	40	51	4.64	1965
24 Thu	6:48	5:21	9:32p	9:33a	79	1971	8	1963	61	40	51	4.91	1978
25 Fri	6:47	5:22	10:36p	10:12a	77	1962	15	1963	61	40	51	2.45	1961
26 Sat	6:47	5:23	11:38p	10:49a	78	1970	15	1940	61	40	51	2.44	1871
27 Sun	6:47	5:24	-	11:25a	79	1950	14	1940	61	40	51	2.52	1994
28 Mon	6:46	5:25	12:38a	12:02p	80	1957	18	1986	61	40	51	1.44	1903
29 Tue	6:46	5:26	1:37a	12:41p	79	1957	19	1966	62	41	51	1.95	1960
30 Wed	6:45	5:27	2:34a	1:22p	79	1957	13	1966	62	41	51	2.87	1991
31 Thu	6:45	5:28	3:29a	2:07p	80	1957	20	1966	62	41	51	3.83	1908

Data for Mobile, Alabama
a = A.M. p = P.M.

* Includes melted snow, sleet and hail

JANUARY

Normal Precipitation 5.65" Wettest 16.92" 1998
 Normal Temperature 50.4° Driest .55" 2003
 Greatest Snowfall 5.0" Jan. 23-24, 1881

FEBRUARY, 2019

All times listed are CENTRAL STANDARD TIME

New Moon



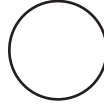
4th 3:04 P.M.

First Quarter



12th 4:26 P.M.

Full Moon



19th 9:53 A.M.

Last Quarter



26th 5:28 A.M.

DAY OF Month Week	SUN		MOON		TEMPERATURE EXTREMES				TEMPERATURE NORMALS			GREATEST PRECIP.*	
	Rise	Set	Rise	Set	High	Year	Low	Year	High	Low	Mean	Total	Year
1 Fri	6:44	5:28	4:22a	2:54p	80	1989	17	1951	62	41	51	4.64	1983
2 Sat	6:43	5:29	5:12a	3:44p	80	1975	14	1951	62	41	52	3.61	1982
3 Sun	6:43	5:30	5:57a	4:36p	82	1989	11	1951	62	41	52	1.62	1960
4 Mon	6:42	5:31	6:39a	5:29p	80	1957	14	1996	62	41	52	2.75	1957
5 Tue	6:41	5:32	7:18a	6:23p	80	1921	11	1996	63	41	52	2.42	1896
6 Wed	6:41	5:33	7:53a	7:16p	78	1994	22	1984	63	42	52	3.48	1872
7 Thu	6:40	5:34	8:26a	8:09p	78	2018	16	1895	63	42	52	4.70	1974
8 Fri	6:39	5:35	8:57a	9:02p	80	1969	12	1895	63	42	53	3.14	1896
9 Sat	6:38	5:36	9:29a	9:56p	80	1994	17	1933	63	42	53	1.87	1908
10 Sun	6:38	5:36	10:00a	10:51p	80	1957	18	1979	64	42	53	5.37	1981
11 Mon	6:36	5:37	10:34a	11:48p	80	1887	24	2011	64	43	53	4.00	1905
12 Tue	6:36	5:38	11:10a	-	81	2017	6	1899	64	43	53	2.37	1920
13 Wed	6:35	5:39	11:51a	12:47a	84	1962	-1	1899	64	43	53	3.97	1927
14 Thu	6:34	5:40	12:38p	1:48a	80	1989	15	1905	64	43	54	2.54	1952
15 Fri	6:33	5:40	1:32p	2:50a	82	1989	25	1943	64	43	54	3.04	1942
16 Sat	6:32	5:41	2:32p	3:53a	82	2018	22	1991	65	44	54	1.65	1884
17 Sun	6:31	5:42	3:39p	4:52a	80	2018	20	1996	65	44	54	2.94	1992
18 Mon	6:30	5:43	4:49p	5:47a	80	2018	19	1900	65	44	55	4.06	1926
19 Tue	6:29	5:43	6:00p	6:37a	83	2017	25	2015	65	44	55	2.57	1875
20 Wed	6:28	5:44	7:10p	7:23a	79	2018	26	2015	66	44	55	2.01	1971
21 Thu	6:27	5:45	8:18p	8:04a	80	2018	28	1978	66	45	55	4.22	1887
22 Fri	6:26	5:46	9:23p	8:43a	80	2007	22	1978	66	45	55	1.66	2013
23 Sat	6:25	5:47	10:26p	9:21a	81	1980	26	1989	66	45	56	2.74	1888
24 Sun	6:24	5:47	11:27p	9:59a	81	2018	19	1989	66	45	56	2.05	1961
25 Mon	6:23	5:48	-	10:38a	80	2011	26	2010	67	45	56	4.40	2004
26 Tue	6:22	5:49	12:27a	11:20a	81	1972	25	1974	67	46	56	2.32	1929
27 Wed	6:21	5:50	1:24a	12:04p	82	1981	24	2002	67	46	57	2.05	1902
28 Thu	6:20	5:50	2:18a	12:51p	82	2018	20	2002	67	46	57	6.42	1907

Data for Mobile, Alabama
a = A.M. p = P.M.

* Includes melted snow, sleet and hail

FEBRUARY

Normal Precipitation 5.12" Wettest 11.89" 1983

Normal Temperature 53.8° Driest 1.09" 1999

Greatest Snowfall 6.0" Feb. 14-15, 1895

MARCH, 2019

All times listed are CENTRAL DAYLIGHT TIME**

New Moon



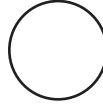
6th 10:04 A.M.

First Quarter



14th 5:27 A.M.

Full Moon



20th 8:43 P.M.

Last Quarter



27th 11:10 P.M.

DAY OF Month Week	SUN		MOON		TEMPERATURE EXTREMES				TEMPERATURE NORMALS			GREATEST PRECIP.*	
	Rise	Set	Rise	Set	High	Year	Low	Year	High	Low	Mean	Total	Year
1 Fri	6:19	5:51	3:09a	1:40p	82	2018	25	1920	68	46	57	3.23	1877
2 Sat	6:18	5:52	3:56a	2:32p	82	2006	23	1980	68	47	57	2.28	1948
3 Sun	6:17	5:52	4:39a	3:24p	81	1910	23	1980	68	47	58	5.14	1979
4 Mon	6:16	5:53	5:18a	4:18p	83	1910	24	1943	69	47	58	2.84	1915
5 Tue	6:14	5:54	5:54a	5:11p	82	1910	22	2002	69	47	58	6.41	1935
6 Wed	6:13	5:55	6:28a	6:05p	83	2004	26	2015	69	47	58	3.24	1948
7 Thu	6:12	5:55	7:00a	6:58p	82	1992	29	1966	69	48	58	6.80	1998
8 Fri	6:11	5:56	7:31a	7:52p	83	1980	26	1996	69	48	59	1.75	1919
9 Sat	6:10	5:57	8:02a	8:46p	84	1951	22	1996	70	48	59	3.49	1880
10 Sun	7:09	6:57	9:35a	10:42p	83	1980	24	1932	70	48	59	3.60	1896
11 Mon	7:07	6:58	10:10a	11:40p	84	1997	28	1998	70	48	59	4.25	2016
12 Tue	7:06	6:59	10:49a	-	85	1989	27	1998	70	48	59	2.85	2001
13 Wed	7:05	6:59	11:32a	12:39a	85	1980	28	1993	71	49	60	4.42	1947
14 Thu	7:04	7:00	12:21p	1:40a	85	1985	21	1993	71	49	60	10.71	1929
15 Fri	7:03	7:01	1:17p	2:40a	89	1967	27	1988	71	49	60	4.24	1990
16 Sat	7:01	7:01	2:19p	3:39a	85	1955	30	1988	71	49	60	7.15	1990
17 Sun	7:00	7:02	3:26p	4:34a	87	1963	34	1988	72	49	60	5.19	1894
18 Mon	6:59	7:03	4:35p	5:24a	85	2015	32	1892	72	50	61	5.98	1951
19 Tue	6:58	7:03	5:44p	6:11a	86	2011	27	1892	72	50	61	7.20	1905
20 Wed	6:57	7:04	6:53p	6:54a	84	2017	30	1923	72	50	61	2.78	1985
21 Thu	6:55	7:04	8:01p	7:34a	86	1962	31	1996	72	50	61	4.20	1879
22 Fri	6:54	7:05	9:06p	8:13a	88	2017	27	1986	73	50	61	4.70	1944
23 Sat	6:53	7:06	10:11p	8:52a	89	1929	29	1885	73	50	62	4.27	1908
24 Sun	6:52	7:06	11:13p	9:31a	86	1995	29	1968	73	51	62	3.59	1872
25 Mon	6:50	7:07	-	10:13a	86	1907	31	1983	73	51	62	4.38	1872
26 Tue	6:49	7:08	12:13a	10:57a	86	1935	30	1894	73	51	62	4.28	1946
27 Wed	6:48	7:08	1:10a	11:44a	91	1910	26	1955	74	51	62	4.10	1946
28 Thu	6:47	7:09	2:04a	12:34p	84	1987	32	1937	74	51	63	5.54	1922
29 Fri	6:45	7:10	2:53a	1:25p	85	1879	33	1955	74	52	63	3.02	2000
30 Sat	6:44	7:10	3:37a	2:18p	90	1946	35	1894	74	52	63	3.93	1886
31 Sun	6:43	7:11	4:18a	3:11p	86	1978	31	2003	74	52	63	4.50	1899

Data for Mobile, Alabama
a = A.M. p = P.M.

**DAYLIGHT SAVING TIME begins on March 10. * Includes melted snow, sleet and hail
Times listed through Nov. 2 are CENTRAL DAYLIGHT

MARCH

Normal Precipitation 6.14" Wettest 20.23" 1929
Normal Temperature 60.2° Driest .24" 2006
Greatest Snowfall 2.7" March 12-13, 1993

ASTRONOMICAL AND METEOROLOGICAL CALENDAR FOR MOBILE AND VICINITY

APRIL, 2019

All times listed are CENTRAL DAYLIGHT TIME

New Moon



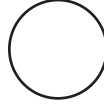
5th 3:50 A.M.

First Quarter



12th 2:06 P.M.

Full Moon



19th 6:12 A.M.

Last Quarter



26th 5:18 P.M.

DAY OF Month Week	SUN		MOON		TEMPERATURE EXTREMES				TEMPERATURE NORMALS			GREATEST PRECIP.*	
	Rise	Set	Rise	Set	High	Year	Low	Year	High	Low	Mean	Total	Year
1 Mon	6:42	7:11	4:55a	4:05p	86	2017	34	1987	75	52	63	6.27	2005
2 Tue	6:41	7:12	5:29a	4:58p	86	2012	32	1881	75	52	63	2.54	1988
3 Wed	6:39	7:13	6:01a	5:52p	87	2006	35	1987	75	52	64	2.56	1897
4 Thu	6:38	7:13	6:33a	6:46p	90	1967	33	1987	75	53	64	5.46	1911
5 Fri	6:37	7:14	7:04a	7:41p	86	2017	32	1987	75	53	64	3.80	2008
6 Sat	6:36	7:15	7:37a	8:37p	86	1967	35	1891	76	53	64	3.65	1918
7 Sun	6:35	7:15	8:11a	9:35p	88	1986	36	1950	76	53	64	4.17	1983
8 Mon	6:33	7:16	8:48a	10:34p	90	1967	36	2009	76	54	65	3.23	1909
9 Tue	6:32	7:16	9:30a	11:35p	89	1965	35	2000	76	54	65	3.31	1933
10 Wed	6:31	7:17	10:17a	-	89	1882	38	1938	76	54	65	2.71	1955
11 Thu	6:30	7:18	11:10a	12:35a	90	1963	36	1973	77	54	65	3.20	1961
12 Fri	6:29	7:18	12:09p	1:33a	90	1965	39	1989	77	54	66	7.28	2015
13 Sat	6:27	7:19	1:12p	2:28a	90	1954	33	1940	77	55	66	13.36	1955
14 Sun	6:26	7:20	2:18p	3:18a	89	2001	38	1959	77	55	66	5.76	1933
15 Mon	6:25	7:20	3:25p	4:04a	89	2001	36	2008	77	55	66	3.81	1934
16 Tue	6:24	7:21	4:32p	4:47a	89	1925	37	2014	78	55	67	1.61	1874
17 Wed	6:23	7:22	5:39p	5:27a	89	2006	42	1983	78	56	67	2.12	1912
18 Thu	6:22	7:22	6:45p	6:05a	90	2006	40	1999	78	56	67	3.52	1901
19 Fri	6:21	7:23	7:50p	6:43a	88	1908	37	1983	78	56	67	7.30	1882
20 Sat	6:20	7:24	8:55p	7:22a	88	2006	40	1953	78	57	67	3.15	1912
21 Sun	6:19	7:24	9:57p	8:04a	94	1987	43	1953	79	57	68	4.00	1949
22 Mon	6:18	7:25	10:58p	8:48a	92	1987	42	1993	79	57	68	4.32	1983
23 Tue	6:17	7:25	11:54p	9:34a	90	1883	43	1927	79	57	68	2.74	1888
24 Wed	6:16	7:26	-	10:24a	91	1999	37	2012	79	58	69	2.68	1937
25 Thu	6:15	7:27	12:46a	11:16a	88	1989	39	1910	80	58	69	5.34	1881
26 Fri	6:14	7:27	1:33a	12:09p	89	1989	46	1992	80	58	69	3.81	1964
27 Sat	6:13	7:28	2:16a	1:03p	89	1989	42	1992	80	58	69	3.50	1964
28 Sun	6:12	7:29	2:54a	1:56p	91	1971	42	1992	80	59	70	2.89	1998
29 Mon	6:11	7:29	3:29a	2:50p	91	1970	46	2008	81	59	70	11.23	2014
30 Tue	6:10	7:30	4:02a	3:43p	91	2012	45	1874	81	59	70	4.43	2005

Data for Mobile, Alabama
a = A.M. p = P.M.

* Includes melted snow, sleet and hail

APRIL

Normal Precipitation 4.79" Wettest 18.09" 2014
Normal Temperature 66.4° Driest .08" 1999

ASTRONOMICAL AND METEOROLOGICAL CALENDAR FOR MOBILE AND VICINITY

MAY, 2019

All times listed are CENTRAL DAYLIGHT TIME

New Moon



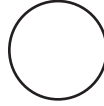
4th 5:45 P.M.

First Quarter



11th 8:12 P.M.

Full Moon



18th 4:11 P.M.

Last Quarter



26th 11:34 A.M.

DAY OF Month Week	SUN		MOON		TEMPERATURE EXTREMES				TEMPERATURE NORMALS			GREATEST PRECIP.*	
	Rise	Set	Rise	Set	High	Year	Low	Year	High	Low	Mean	Total	Year
1 Wed	6:09	7:31	4:33a	4:37p	91	1987	46	1999	81	60	70	3.42	2013
2 Thu	6:08	7:31	5:05a	5:32p	90	1955	47	2015	81	60	71	6.80	2012
3 Fri	6:07	7:32	5:37a	6:28p	90	1952	47	2004	82	60	71	5.97	1978
4 Sat	6:06	7:33	6:10a	7:26p	94	1952	43	2013	82	60	71	1.48	1912
5 Sun	6:05	7:33	6:47a	8:26p	94	1952	46	1954	82	61	71	7.96	1981
6 Mon	6:04	7:34	7:28a	9:28p	94	1952	44	2017	82	61	72	2.82	1873
7 Tue	6:04	7:35	8:14a	10:29p	93	1952	45	1992	83	61	72	4.46	1972
8 Wed	6:03	7:35	9:06a	11:29p	92	1949	44	1992	83	62	72	3.10	1876
9 Thu	6:02	7:36	10:03a	-	91	2018	47	1984	83	62	72	5.44	1995
10 Fri	6:01	7:37	11:05a	12:25a	91	2018	49	1961	83	62	73	3.67	1995
11 Sat	6:01	7:37	12:10p	1:17a	95	1916	50	1906	84	62	73	1.76	1915
12 Sun	6:00	7:38	1:15p	2:03a	96	1916	45	1952	84	63	73	2.83	1987
13 Mon	5:59	7:39	2:21p	2:46a	95	2018	43	1960	84	63	74	3.09	1990
14 Tue	5:59	7:39	3:26p	3:25a	97	2018	49	1960	84	63	74	1.26	1930
15 Wed	5:58	7:40	4:30p	4:02a	96	1883	50	2014	84	64	74	3.52	1905
16 Thu	5:57	7:41	5:34p	4:39a	96	1962	47	2014	85	64	74	3.63	2015
17 Fri	5:57	7:41	6:37p	5:17a	94	1988	46	2011	85	64	75	4.55	1980
18 Sat	5:56	7:42	7:41p	5:56a	96	1962	44	2011	85	64	75	6.30	2003
19 Sun	5:56	7:43	8:42p	6:38a	98	1962	48	2002	85	65	75	4.71	1932
20 Mon	5:55	7:43	9:41p	7:24a	99	1962	50	2002	86	65	75	4.37	2017
21 Tue	5:54	7:44	10:36p	8:13a	95	1962	50	1954	86	65	75	1.46	1911
22 Wed	5:54	7:45	11:27p	9:05a	96	1996	48	1993	86	65	76	3.80	1965
23 Thu	5:54	7:45	-	9:58a	95	1996	47	1883	86	66	76	4.33	1957
24 Fri	5:53	7:46	12:12a	10:52a	97	2005	52	1951	86	66	76	1.88	1976
25 Sat	5:53	7:46	12:52a	11:47a	97	1962	53	1979	86	66	76	3.38	1909
26 Sun	5:52	7:47	1:28a	12:40p	96	1962	48	1979	87	66	77	3.28	1991
27 Mon	5:52	7:48	2:02a	1:34p	100	1953	49	1961	87	67	77	3.89	1976
28 Tue	5:52	7:48	2:34a	2:27p	98	1962	50	1961	87	67	77	3.07	2014
29 Wed	5:51	7:49	3:04a	3:21p	95	2012	56	1984	87	67	77	5.62	1883
30 Thu	5:51	7:49	3:36a	4:16p	97	1911	48	1984	87	67	77	2.41	1900
31 Fri	5:51	7:50	4:08a	5:14p	100	1951	46	1889	87	68	77	6.91	1900

Data for Mobile, Alabama
a = A.M. p = P.M.

* Includes melted snow, sleet and hail

MAY

Normal Precipitation 5.14" Wettest 15.08" 1980
Normal Temperature 74.1° Driest .22" 1914

ASTRONOMICAL AND METEOROLOGICAL CALENDAR FOR MOBILE AND VICINITY

JUNE, 2019

All times listed are CENTRAL DAYLIGHT TIME

New Moon



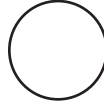
3rd 5:02 A.M.

First Quarter



10th 12:59 A.M.

Full Moon



17th 3:31 A.M.

Last Quarter



25th 4:46 A.M.

DAY OF Month Week	SUN		MOON		TEMPERATURE EXTREMES				TEMPERATURE NORMALS			GREATEST PRECIP.*	
	Rise	Set	Rise	Set	High	Year	Low	Year	High	Low	Mean	Total	Year
1 Sat	5:50	7:50	4:43a	6:13p	101	2011	49	1984	88	68	78	2.01	1981
2 Sun	5:50	7:51	5:23a	7:15p	98	2011	54	1984	88	68	78	3.21	1970
3 Mon	5:50	7:52	6:07a	8:18p	100	2011	56	1956	88	68	78	2.00	1989
4 Tue	5:50	7:52	6:58a	9:20p	103	2011	59	1984	88	68	78	2.50	1928
5 Wed	5:50	7:53	7:54a	10:20p	99	1985	58	1946	88	69	78	1.83	1951
6 Thu	5:49	7:53	8:56a	11:14p	99	2011	60	2009	88	69	79	4.64	2003
7 Fri	5:49	7:53	10:02a	-	97	1972	60	1998	88	69	79	3.17	1973
8 Sat	5:49	7:54	11:08a	12:03a	98	1963	58	2000	89	69	79	4.00	1941
9 Sun	5:49	7:54	12:14p	12:47a	99	1963	60	1983	89	69	79	5.79	2012
10 Mon	5:49	7:55	1:18p	1:27a	99	1953	60	1988	89	70	79	2.84	1910
11 Tue	5:49	7:55	2:22p	2:04a	101	1914	56	1913	89	70	79	4.52	2005
12 Wed	5:49	7:56	3:24p	2:40a	100	2007	57	1913	89	70	80	4.15	1900
13 Thu	5:49	7:56	4:26p	3:16a	101	1952	57	1995	89	70	80	2.84	1956
14 Fri	5:49	7:56	5:28p	3:54a	102	1952	55	1995	89	70	80	4.37	1877
15 Sat	5:49	7:57	6:30p	4:34a	101	1952	60	1995	89	71	80	2.60	1940
16 Sun	5:49	7:57	7:29p	5:17a	100	1918	58	1917	89	71	80	4.61	1939
17 Mon	5:50	7:57	8:26p	6:04a	101	1918	61	1933	89	71	80	1.70	1927
18 Tue	5:50	7:58	9:19p	6:55a	100	1953	63	1955	90	71	80	6.30	2003
19 Wed	5:50	7:58	10:06p	7:48a	101	1953	62	2008	90	71	80	1.81	1947
20 Thu	5:50	7:58	10:49p	8:42a	102	1936	64	1999	90	71	81	6.08	1961
21 Fri	5:50	7:58	11:27p	9:37a	100	1882	65	1976	90	71	81	3.09	1887
22 Sat	5:50	7:58	-	10:31a	100	2009	65	1961	90	72	81	4.91	1942
23 Sun	5:51	7:59	12:01a	11:24a	101	2009	64	1902	90	72	81	1.20	1880
24 Mon	5:51	7:59	12:34a	12:17p	101	2009	62	2001	90	72	81	3.59	1929
25 Tue	5:51	7:59	1:04a	1:10p	100	1914	61	1974	90	72	81	3.07	1997
26 Wed	5:52	7:59	1:35a	2:04p	101	1914	64	1979	90	72	81	12.57	1900
27 Thu	5:52	7:59	2:06a	3:00p	100	1988	61	1974	90	72	81	6.15	1888
28 Fri	5:52	7:59	2:39a	3:58p	100	1969	62	1958	90	72	81	4.16	1946
29 Sat	5:53	7:59	3:16a	4:58p	102	1954	64	1961	90	72	81	2.29	2017
30 Sun	5:53	7:59	3:58a	6:01p	101	1954	63	1923	90	72	81	6.05	2003

Data for Mobile, Alabama
a = A.M. p = P.M.

* Includes melted snow, sleet and hail

JUNE

Normal Precipitation 6.11" Wettest 26.67" 1900
Normal Temperature 79.8° Driest .53" 1902

ASTRONOMICAL AND METEOROLOGICAL CALENDAR FOR MOBILE AND VICINITY

JULY, 2019

All times listed are CENTRAL DAYLIGHT TIME

New Moon



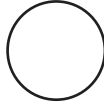
2nd 2:16 P.M.

First Quarter



7th 5:55 A.M.

Full Moon



16th 4:38 P.M.

Last Quarter



24th 8:18 P.M.

New Moon



31st 10:12 P.M.

DAY OF Month Week	SUN		MOON		TEMPERATURE EXTREMES				TEMPERATURE NORMALS			GREATEST PRECIP.*	
	Rise	Set	Rise	Set	High	Year	Low	Year	High	Low	Mean	Total	Year
1 Mon	5:53	7:59	4:45a	7:04p	99	1883	63	1985	91	72	81	2.15	1941
2 Tue	5:54	7:59	5:40a	8:06p	101	2009	64	1924	91	72	82	3.26	1951
3 Wed	5:54	7:59	6:42a	9:05p	99	1970	62	1924	91	73	82	2.87	1949
4 Thu	5:55	7:59	7:48a	9:57p	99	1938	65	1924	91	73	82	3.68	1874
5 Fri	5:55	7:59	8:56a	10:45p	98	1921	64	2014	91	73	82	5.82	1916
6 Sat	5:55	7:59	10:04a	11:27p	99	1877	64	1882	91	73	82	6.34	2005
7 Sun	5:56	7:59	11:10a	-	100	2000	64	1972	91	73	82	5.27	1910
8 Mon	5:56	7:59	12:15p	12:06a	101	1881	65	1972	91	73	82	3.07	1925
9 Tue	5:57	7:58	1:18p	12:42a	100	1881	66	1988	91	73	82	3.17	1970
10 Wed	5:57	7:58	2:20p	1:18a	99	1879	65	1983	91	73	82	3.36	1874
11 Thu	5:58	7:58	3:21p	1:55a	103	1930	66	1953	91	73	82	3.58	1872
12 Fri	5:58	7:58	4:22p	2:33a	102	1901	68	1957	91	73	82	3.07	1917
13 Sat	5:59	7:57	5:21p	3:15a	101	1980	65	1904	91	73	82	3.92	1951
14 Sun	5:59	7:57	6:18p	4:00a	103	1980	65	1897	91	73	82	2.68	1945
15 Mon	6:00	7:57	7:12p	4:48a	103	1980	62	1967	91	73	82	3.42	1931
16 Tue	6:01	7:56	8:01p	5:40a	102	2000	62	1967	91	73	82	5.27	1931
17 Wed	6:01	7:56	8:45p	6:34a	101	1883	64	2014	91	73	82	3.57	1982
18 Thu	6:02	7:55	9:25p	7:28a	99	2000	67	1923	91	73	82	4.21	1969
19 Fri	6:02	7:55	10:01p	8:23a	98	2015	65	1923	91	73	82	10.07	1997
20 Sat	6:03	7:54	10:34p	9:17a	101	2000	64	2009	91	73	82	1.49	1879
21 Sun	6:03	7:54	11:05p	10:10a	98	1942	67	1939	91	73	82	4.68	1946
22 Mon	6:04	7:53	11:35p	11:02a	98	1907	67	1956	91	73	82	4.63	1873
23 Tue	6:05	7:53	-	11:55a	100	1976	62	1947	91	73	82	4.02	1937
24 Wed	6:05	7:52	12:05a	12:49p	103	1952	68	1904	91	73	82	2.20	1954
25 Thu	6:06	7:52	12:37a	1:44p	104	1952	67	1904	91	73	82	2.96	1938
26 Fri	6:06	7:51	1:11a	2:42p	98	1983	66	1911	91	73	82	2.07	2008
27 Sat	6:07	7:51	1:50a	3:43p	99	1968	67	1911	91	73	82	2.63	1897
28 Sun	6:08	7:50	2:33a	4:45p	100	1968	67	1994	91	73	82	1.53	1950
29 Mon	6:08	7:49	3:24a	5:47p	100	1877	66	1994	91	73	82	1.78	1872
30 Tue	6:09	7:49	4:22a	6:48p	100	1986	64	2014	91	73	82	2.46	1975
31 Wed	6:10	7:48	5:27a	7:44p	99	1986	63	2014	91	73	82	4.15	1975

Data for Mobile, Alabama
a = A.M. p = P.M.

* Includes melted snow, sleet and hail

JULY

Normal Precipitation 7.25" Wettest 20.50" 1916
Normal Temperature 81.8° Driest 1.72" 1983

AUGUST, 2019

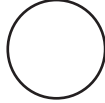
All times listed are CENTRAL DAYLIGHT TIME

First Quarter



7th 12:31 P.M.

Full Moon



15th 7:29 A.M.

Last Quarter



23rd 9:56 A.M.

New Moon



30th 5:37 A.M.

DAY OF Month Week	SUN		MOON		TEMPERATURE EXTREMES				TEMPERATURE NORMALS			GREATEST PRECIP.*	
	Rise	Set	Rise	Set	High	Year	Low	Year	High	Low	Mean	Total	Year
1 Thu	6:10	7:47	6:35a	8:35p	101	2010	66	1936	91	73	82	5.65	1984
2 Fri	6:11	7:46	7:46a	9:21p	101	2010	68	1984	91	73	82	3.25	1984
3 Sat	6:11	7:46	8:55a	10:03p	101	1897	68	1965	91	73	82	6.20	1881
4 Sun	6:12	7:45	10:03a	10:41p	98	2011	68	1998	91	73	82	4.08	1876
5 Mon	6:13	7:44	11:09a	11:18p	101	1947	68	1950	91	73	82	3.56	1881
6 Tue	6:13	7:43	12:13p	11:55p	100	1935	66	1957	91	73	82	3.30	1883
7 Wed	6:14	7:42	1:15p	-	99	1972	63	1884	91	73	82	3.27	1888
8 Thu	6:15	7:41	2:17p	12:34a	98	1972	65	1989	91	73	82	2.25	1988
9 Fri	6:15	7:40	3:16p	1:14a	98	2007	60	1989	91	73	82	2.98	1948
10 Sat	6:16	7:39	4:14p	1:58a	99	2010	64	1990	91	73	82	3.38	2004
11 Sun	6:16	7:39	5:08p	2:45a	101	2007	66	1976	91	73	82	3.78	1970
12 Mon	6:17	7:38	5:58p	3:35a	100	1954	60	1967	91	73	82	3.94	1911
13 Tue	6:18	7:37	6:43p	4:28a	100	1951	63	2004	91	73	82	2.09	1892
14 Wed	6:18	7:36	7:24p	5:22a	99	1999	60	2004	91	73	82	3.90	1879
15 Thu	6:19	7:35	8:01p	6:17a	100	1954	62	2004	91	73	82	5.44	1901
16 Fri	6:19	7:34	8:35p	7:11a	101	1918	64	2004	91	73	82	4.91	2008
17 Sat	6:20	7:33	9:07p	8:04a	99	2000	66	2004	91	73	82	5.12	1969
18 Sun	6:21	7:32	9:37p	8:57a	101	1909	65	2004	91	73	82	3.34	1897
19 Mon	6:21	7:30	10:07p	9:49a	101	2000	64	1976	91	73	82	3.03	1953
20 Tue	6:22	7:29	10:37p	10:42a	99	1925	66	1976	91	73	82	3.31	1918
21 Wed	6:23	7:28	11:10p	11:36a	98	1980	62	1956	91	73	82	2.43	1934
22 Thu	6:23	7:27	11:45p	12:32p	102	1968	59	1956	91	73	82	2.79	1879
23 Fri	6:24	7:26	-	1:30p	99	1924	63	2009	91	73	82	1.92	1909
24 Sat	6:24	7:25	12:26a	2:29p	100	1924	60	2009	90	73	81	1.88	2011
25 Sun	6:25	7:24	1:12a	3:30p	100	1938	57	1891	90	72	81	4.73	2008
26 Mon	6:25	7:23	2:05a	4:30p	100	2000	63	2015	90	72	81	2.47	1950
27 Tue	6:26	7:22	3:05a	5:28p	97	2000	62	2015	90	72	81	1.90	1984
28 Wed	6:26	7:20	4:11a	6:21p	97	2000	66	2015	90	72	81	4.15	2012
29 Thu	6:27	7:19	5:21a	7:10p	105	2000	61	1992	90	72	81	3.48	2012
30 Fri	6:28	7:18	6:32a	7:54p	102	1954	61	1992	90	72	81	3.98	1950
31 Sat	6:28	7:17	7:42a	8:35p	99	1954	63	1992	90	72	81	1.74	1932

Data for Mobile, Alabama
a = A.M. p = P.M.

* Includes melted snow, sleet and hail

AUGUST

Normal Precipitation 6.96" Wettest 15.22" 1881
Normal Temperature 81.6° Driest 1.04" 1997

SEPTEMBER, 2019

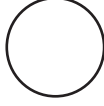
All times listed are CENTRAL DAYLIGHT TIME

First Quarter



5th 10:10 P.M.

Full Moon



13th 11:33 P.M.

Last Quarter



21st 9:41 P.M.

New Moon



28th 1:26 P.M.

DAY OF Month Week	SUN		MOON		TEMPERATURE EXTREMES				TEMPERATURE NORMALS			GREATEST PRECIP.*	
	Rise	Set	Rise	Set	High	Year	Low	Year	High	Low	Mean	Total	Year
1 Sun	6:29	7:16	8:51p	9:14p	97	1964	62	1946	90	72	81	7.30	1932
2 Mon	6:29	7:14	9:58a	9:52p	98	1989	61	1892	90	72	81	5.54	1950
3 Tue	6:30	7:13	11:04a	10:31p	97	1944	63	1952	89	71	80	5.24	2011
4 Wed	6:31	7:12	12:07p	11:12p	99	1990	59	1952	89	71	80	3.55	2011
5 Thu	6:31	7:11	1:09p	11:55p	103	1925	57	1891	89	71	80	4.50	1908
6 Fri	6:32	7:10	2:09p	-	98	1954	59	2011	89	71	80	6.58	1967
7 Sat	6:32	7:08	3:04p	12:42a	96	1954	56	2011	89	71	80	6.17	1974
8 Sun	6:33	7:07	3:56p	1:31a	97	1980	56	2011	89	70	80	2.08	1947
9 Mon	6:33	7:05	4:42p	2:24a	98	1980	56	2011	89	70	79	2.78	1988
10 Tue	6:34	7:05	5:24p	3:17a	99	1980	56	1956	88	70	79	6.80	1944
11 Wed	6:34	7:03	6:02p	4:11a	97	1915	56	1956	88	70	79	3.12	1893
12 Thu	6:35	7:02	6:37p	5:06a	95	2010	53	1940	88	69	79	8.23	1979
13 Fri	6:36	7:01	7:09p	5:59a	96	1911	55	1940	88	69	78	3.76	1973
14 Sat	6:36	6:59	7:39p	6:52a	96	1995	52	1902	88	69	78	4.40	1952
15 Sun	6:37	6:58	8:09p	7:45a	97	1972	54	1985	87	69	78	3.88	1913
16 Mon	6:37	6:57	8:39p	8:38a	101	1927	55	1961	87	68	78	3.68	1988
17 Tue	6:38	6:56	9:11p	9:31a	100	1927	57	1961	87	68	77	1.41	1930
18 Wed	6:38	6:54	9:45p	10:26a	96	2018	54	1981	87	68	77	6.75	1877
19 Thu	6:39	6:53	10:23p	11:23a	97	2005	48	1981	86	67	77	2.73	1980
20 Fri	6:39	6:52	11:05p	12:21p	100	1925	50	1981	86	67	77	7.61	1926
21 Sat	6:40	6:51	11:54p	1:20p	99	1925	51	1918	86	67	76	2.44	1898
22 Sun	6:41	6:49	-	2:19p	98	1925	47	1983	86	66	76	5.17	1920
23 Mon	6:41	6:48	12:50a	3:15p	96	1921	49	1983	85	66	76	2.72	1889
24 Tue	6:42	6:47	1:51a	4:09p	95	2016	50	1990	85	66	75	4.57	1956
25 Wed	6:42	6:45	2:58a	4:58p	94	1961	50	1990	85	65	75	6.19	2002
26 Thu	6:43	6:44	4:07a	5:43p	94	1977	50	2001	85	65	75	3.27	1881
27 Fri	6:44	6:43	5:17a	6:25p	94	1954	50	2001	84	64	74	7.50	2015
28 Sat	6:44	6:42	6:27a	7:05p	94	1953	48	1967	84	64	74	8.60	1998
29 Sun	6:45	6:40	7:36a	7:44p	94	1904	42	1967	84	64	74	4.10	1898
30 Mon	6:45	6:39	8:44a	8:23p	93	2017	45	1967	84	63	73	5.40	1965

Data for Mobile, Alabama
a = A.M. p = P.M.

* Includes melted snow, sleet and hail

SEPTEMBER

Normal Precipitation 5.11" Wettest 24.13" 1998
Normal Temperature 77.5° Driest .47" 1923

ASTRONOMICAL AND METEOROLOGICAL CALENDAR FOR MOBILE AND VICINITY

OCTOBER, 2019

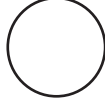
All times listed are CENTRAL DAYLIGHT TIME

First Quarter



5th 11:47 A.M.

Full Moon



13th 4:08 P.M.

Last Quarter



21st 7:39 A.M.

New Moon



27th 10:38 P.M.

DAY OF Month Week	SUN		MOON		TEMPERATURE EXTREMES				TEMPERATURE NORMALS			GREATEST PRECIP.*	
	Rise	Set	Rise	Set	High	Year	Low	Year	High	Low	Mean	Total	Year
1 Tue	6:46	6:38	9:51a	9:04p	92	1954	45	1920	83	63	73	3.34	1906
2 Wed	6:46	6:37	10:56a	9:48p	95	1904	43	1984	83	63	73	5.37	1893
3 Thu	6:47	6:35	11:58a	10:35p	92	1970	43	1984	83	62	72	3.21	1995
4 Fri	6:48	6:34	12:57p	11:25p	94	1925	44	1987	83	62	72	4.90	1995
5 Sat	6:48	6:33	1:52p	-	93	1954	44	2010	82	61	72	3.31	1935
6 Sun	6:49	6:32	2:41p	12:17a	93	1941	43	1932	82	61	72	4.11	1910
7 Mon	6:50	6:31	3:24p	1:11a	92	1941	43	1964	82	61	71	2.81	2017
8 Tue	6:50	6:29	4:03p	2:06a	94	1941	43	1991	81	60	70	3.39	1894
9 Wed	6:51	6:28	4:39p	3:00a	94	1941	42	2000	81	60	70	5.03	1905
10 Thu	6:51	6:27	5:11p	3:54a	92	1981	44	1951	81	60	70	2.40	1878
11 Fri	6:52	6:26	5:42p	4:47a	92	2017	42	2000	81	59	70	2.14	1895
12 Sat	6:53	6:25	6:12p	5:40a	89	2009	42	2000	80	59	70	2.00	1983
13 Sun	6:53	6:24	6:42p	6:33a	92	1963	41	1977	80	59	69	2.98	1912
14 Mon	6:54	6:22	7:13p	7:27a	90	1972	40	1977	80	58	69	2.13	1959
15 Tue	6:55	6:21	7:46p	8:22a	89	2018	41	2010	79	58	69	5.46	1932
16 Wed	6:56	6:20	8:23p	9:18a	93	2015	43	1987	79	58	68	3.49	1923
17 Thu	6:56	6:19	9:04p	10:16a	90	1972	38	1991	79	57	68	5.77	1937
18 Fri	6:57	6:18	9:50p	11:15a	89	1972	39	1948	79	57	68	3.46	1912
19 Sat	6:57	6:17	10:42p	12:13p	88	1949	38	1989	78	57	67	2.04	1887
20 Sun	6:58	6:16	11:40p	1:10p	89	2016	33	1989	78	56	67	1.84	1956
21 Mon	6:59	6:15	-	2:03p	88	1963	35	1989	78	56	67	.69	1947
22 Tue	7:00	6:14	12:43a	2:52p	91	1963	38	2011	78	56	67	4.07	2017
23 Wed	7:00	6:13	1:49a	3:36p	90	1941	38	1937	77	55	66	2.55	1892
24 Thu	7:01	6:12	2:56a	4:18p	87	1941	37	1999	77	55	66	4.21	1920
25 Fri	7:02	6:11	4:04a	4:57p	88	1927	38	1999	77	55	66	2.42	1942
26 Sat	7:02	6:10	5:12a	5:35p	87	1936	37	2005	77	54	65	4.81	2015
27 Sun	7:03	6:09	6:20a	6:14p	88	1939	33	1957	76	54	65	3.03	1984
28 Mon	7:04	6:08	7:28a	6:54p	89	1963	32	1957	76	54	65	2.84	1880
29 Tue	7:05	6:07	8:35a	7:37p	87	2000	32	2008	76	53	65	4.99	1985
30 Wed	7:06	6:06	9:41a	8:24p	87	2016	34	1952	75	53	64	4.25	1967
31 Thu	7:06	6:05	10:44a	9:14p	88	2016	30	1993	75	53	64	5.20	1882

Data for Mobile, Alabama
a = A.M. p = P.M.

* Includes melted snow, sleet and hail

OCTOBER

Normal Precipitation 3.69" Wettest 13.44" 2017
Normal Temperature 68.4° Driest .00" 1874, 2016

NOVEMBER, 2019

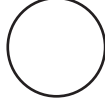
All times listed are CENTRAL STANDARD TIME**

First Quarter



4th 4:23 A.M.

Full Moon



12th 7:34 A.M.

Last Quarter



19th 3:11 P.M.

New Moon



26th 9:06 A.M.

DAY OF Month Week	SUN		MOON		TEMPERATURE EXTREMES				TEMPERATURE NORMALS			GREATEST PRECIP.*	
	Rise	Set	Rise	Set	High	Year	Low	Year	High	Low	Mean	Total	Year
1 Fri	7:07	6:05	11:42a	10:06p	87	1971	28	1993	75	53	64	2.13	1979
2 Sat	7:08	6:04	12:35p	11:01p	87	1971	30	1966	75	52	63	1.92	1995
3 Sun	6:09	5:03	12:21p	10:57p	87	2016	26	1966	74	52	63	1.60	2010
4 Mon	6:09	5:02	1:03p	11:52p	88	2016	28	1991	74	52	63	2.62	1992
5 Tue	6:10	5:01	1:39p	-	86	2015	27	1991	74	51	63	1.73	1875
6 Wed	6:11	5:01	2:13p	12:46a	87	2003	30	1991	74	51	62	7.01	1975
7 Thu	6:12	5:00	2:44p	1:40a	85	1935	27	1959	73	51	62	4.74	1989
8 Fri	6:13	4:59	3:14p	2:33a	83	2005	28	1951	73	51	62	3.11	1926
9 Sat	6:14	4:59	3:43p	3:26a	83	1986	30	1991	73	50	61	3.54	1975
10 Sun	6:14	4:58	4:14p	4:19a	81	1988	28	1991	72	50	61	3.14	1919
11 Mon	6:15	4:57	4:47p	5:14a	83	1985	31	2011	72	50	61	3.25	2004
12 Tue	6:16	4:57	5:22p	6:11a	83	2003	29	1894	72	50	61	3.24	1992
13 Wed	6:17	4:56	6:02p	7:09a	83	2005	31	1911	71	49	60	4.43	1914
14 Thu	6:18	4:56	6:47p	8:09a	82	2008	28	1969	71	49	60	1.55	1929
15 Fri	6:19	4:55	7:38p	9:09a	83	1980	25	1940	71	49	60	5.70	2006
16 Sat	6:19	4:55	8:35p	10:06a	82	2011	24	1940	71	48	59	3.15	1987
17 Sun	6:20	4:54	9:36p	11:01a	83	2003	28	1997	70	48	59	2.00	1876
18 Mon	6:21	4:54	10:40p	11:50a	82	1958	25	1951	70	48	59	2.52	2000
19 Tue	6:22	4:53	11:45p	12:35p	82	1985	23	2014	70	48	59	1.99	1948
20 Wed	6:23	4:53	-	1:16p	84	1973	27	1937	69	47	58	2.35	1999
21 Thu	6:24	4:53	12:51a	1:55p	82	1994	25	1887	69	47	58	2.39	1977
22 Fri	6:24	4:52	1:56a	2:32p	81	1973	26	2000	69	47	58	4.87	1907
23 Sat	6:25	4:52	3:02a	3:09p	83	1973	25	1956	68	47	58	2.46	1948
24 Sun	6:26	4:52	4:08a	3:47p	81	1973	24	1970	68	46	57	2.85	2000
25 Mon	6:27	4:52	5:14a	4:27p	84	1973	22	1950	68	46	57	2.97	1944
26 Tue	6:28	4:51	6:20a	5:12p	82	1973	29	1950	67	46	57	3.32	1878
27 Wed	6:29	4:51	7:25a	6:00p	82	1973	27	1956	67	46	56	3.35	1914
28 Thu	6:30	4:51	8:27a	6:52p	80	2005	25	2013	67	45	56	2.15	1976
29 Fri	6:31	4:51	9:23a	9:47p	79	2016	25	1976	67	45	56	3.46	1913
30 Sat	6:30	4:51	10:14a	8:44p	80	1967	24	1976	66	45	56	2.77	1930

Data for Mobile, Alabama
a = A.M. p = P.M.

**CENTRAL STANDARD TIME begins on Nov. 3.

* Includes melted snow, sleet and hail

NOVEMBER

Normal Precipitation 5.13" Wettest 13.65" 1948
Normal Temperature 59.6° Driest .06" 1924

DECEMBER, 2019

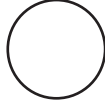
All times listed are CENTRAL STANDARD TIME

First Quarter



4th 12:58 A.M.

Full Moon



11th 11:12 P.M.

Last Quarter



18th 10:57 A.M.

New Moon



25th 11:13 P.M.

DAY OF Month Week	SUN		MOON		TEMPERATURE EXTREMES				TEMPERATURE NORMALS			GREATEST PRECIP.*	
	Rise	Set	Rise	Set	High	Year	Low	Year	High	Low	Mean	Total	Year
1 Sun	6:32	4:51	10:58a	9:40p	80	1982	24	1964	66	45	55	2.26	1996
2 Mon	6:33	4:51	11:38a	10:36p	81	2018	22	1876	66	45	55	1.87	1905
3 Tue	6:34	4:51	12:12p	11:30p	79	1933	22	1929	65	44	55	2.36	1955
4 Wed	6:34	4:51	12:44p	-	79	2005	25	1989	65	44	55	2.94	1955
5 Thu	6:35	4:51	1:15p	12:23a	79	2017	24	1886	65	44	54	1.56	1953
6 Fri	6:36	4:51	1:44p	1:16a	81	1998	23	1886	65	44	54	2.90	1953
7 Sat	6:37	4:51	2:14p	2:09a	81	1998	22	1937	64	44	54	1.69	1948
8 Sun	6:37	4:51	2:45p	3:03a	80	1998	24	2006	64	43	54	2.18	1887
9 Mon	6:38	4:51	3:19p	3:59a	80	1986	22	2010	64	43	54	2.78	1952
10 Tue	6:39	4:51	3:57p	4:57a	80	2012	22	1995	64	43	53	3.60	1961
11 Wed	6:40	4:51	4:41p	5:57a	78	2015	22	1957	63	43	53	3.68	1983
12 Thu	6:40	4:52	5:31p	6:58a	81	1971	14	1962	63	43	53	4.06	2009
13 Fri	6:41	4:52	6:27p	7:59a	79	2007	10	1962	63	43	53	4.18	1885
14 Sat	6:42	4:53	7:28p	8:56a	78	1995	24	2010	63	42	53	2.27	1943
15 Sun	6:42	4:53	8:32p	9:48a	79	1971	20	1901	63	42	52	4.21	1891
16 Mon	6:43	4:53	9:38p	10:35a	81	1971	16	1901	62	42	52	2.48	1902
17 Tue	6:43	4:54	10:44p	11:18a	78	2008	25	1963	62	42	52	3.00	1995
18 Wed	6:44	4:54	11:48p	11:57a	77	2006	19	1901	62	42	52	4.68	1995
19 Thu	6:45	4:54	-	12:33p	80	1967	17	1981	62	42	52	1.30	1887
20 Fri	6:45	4:55	12:52a	1:09p	78	1978	17	1981	62	42	52	2.90	2007
21 Sat	6:46	4:55	1:56a	1:45p	79	1998	16	1901	62	41	52	2.03	1918
22 Sun	6:46	4:56	3:00a	2:23p	80	2017	13	1989	62	41	51	4.29	1911
23 Mon	6:47	4:56	4:05a	3:04p	79	1970	9	1989	61	41	51	4.03	2015
24 Tue	6:47	4:57	5:09a	3:50p	78	2016	9	1989	61	41	51	1.80	1924
25 Wed	6:47	4:58	6:11a	4:40p	80	2016	8	1983	61	41	51	2.15	1943
26 Thu	6:48	4:58	7:10a	5:34p	78	1964	14	1983	61	41	51	2.14	1939
27 Fri	6:48	4:59	8:03a	6:30p	80	2016	18	1872	61	41	51	2.90	1942
28 Sat	6:49	4:59	8:51a	7:27p	81	1974	18	1925	61	41	51	5.10	1901
29 Sun	6:49	5:00	9:33a	8:24p	78	1974	16	1894	61	41	51	1.97	1914
30 Mon	6:49	5:01	10:10a	9:19p	79	1974	14	1880	61	40	51	4.51	1968
31 Tue	6:50	5:01	10:44a	10:13p	78	1988	14	1983	61	40	51	4.10	2002

Data for Mobile, Alabama
a = A.M. p = P.M.

* Includes melted snow, sleet and hail

DECEMBER

Normal Precipitation 5.06" Wettest 15.37" 2009
 Normal Temperature 52.4° Driest .53" 1889
 Greatest Snowfall 3.0" Dec. 31, 1963

2018 MOBILE AREA WEATHER HIGHLIGHTS

JANUARY *COLD MONTH* The coldest weather of the winter occurred on the 17th and 18th when lows of 17° were recorded at Mobile Regional Airport. January was a cold month in Mobile with an average that was 3.8° below normal. There were 17 days when the mercury dropped to 32° or below.

FEBRUARY *RECORD MONTH* February 2018 was the warmest February on record with an average temperature of 65.1°, or 11.3° above normal. There were 9 days during which record high temperatures were equaled or exceeded. In addition, the mercury reached 80° or more on 10 days.

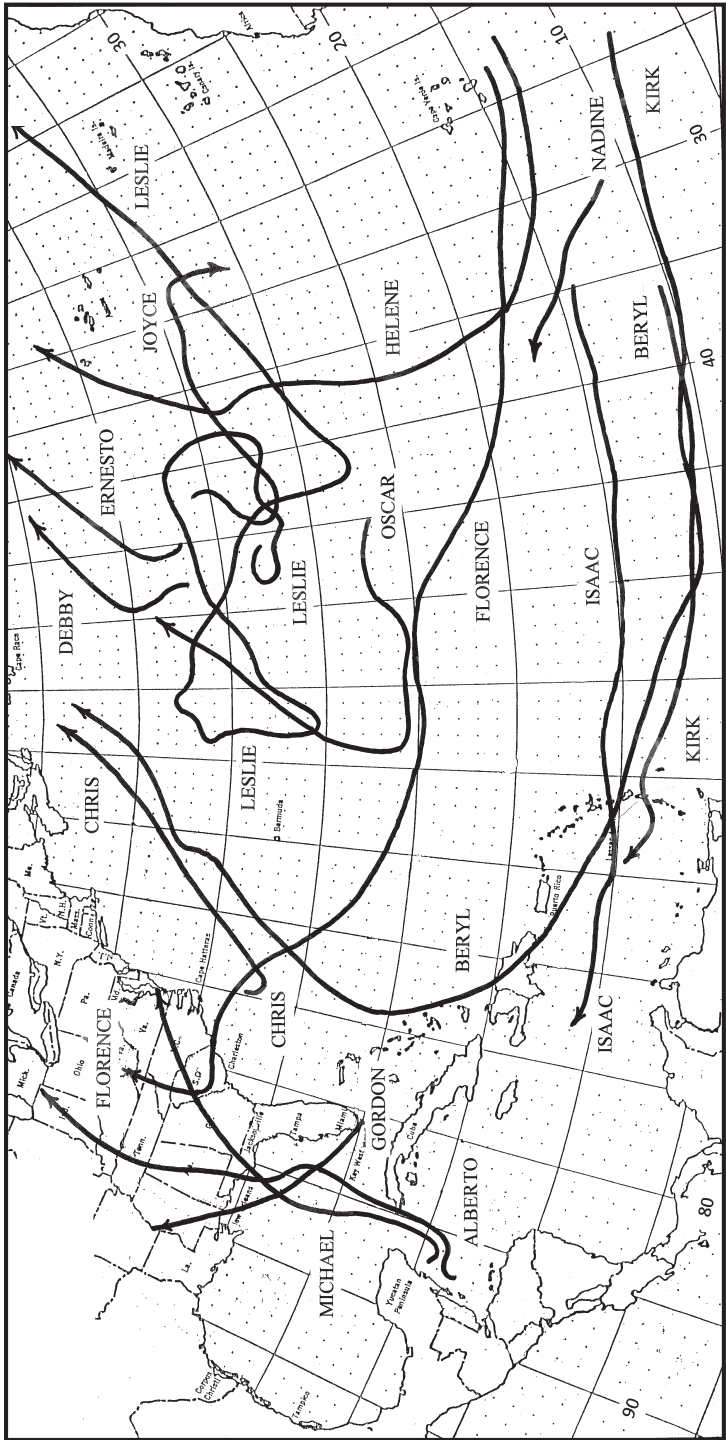
MAY 13-15 *HEAT WAVE* A pre-summer heat wave covered the Gulf Coast in mid-May resulting in record highs of 95° on the 13th and 97° on the 14th. The May 14th reading was the warmest temperature recorded in 2018.

SEPTEMBER 5 *TROPICAL STORM GORDON* On September 5, the center of Tropical Storm Gordon made landfall just west of the Mississippi - Alabama border. Gordon produced strong, gusty winds and moderate flooding on Dauphin Island.



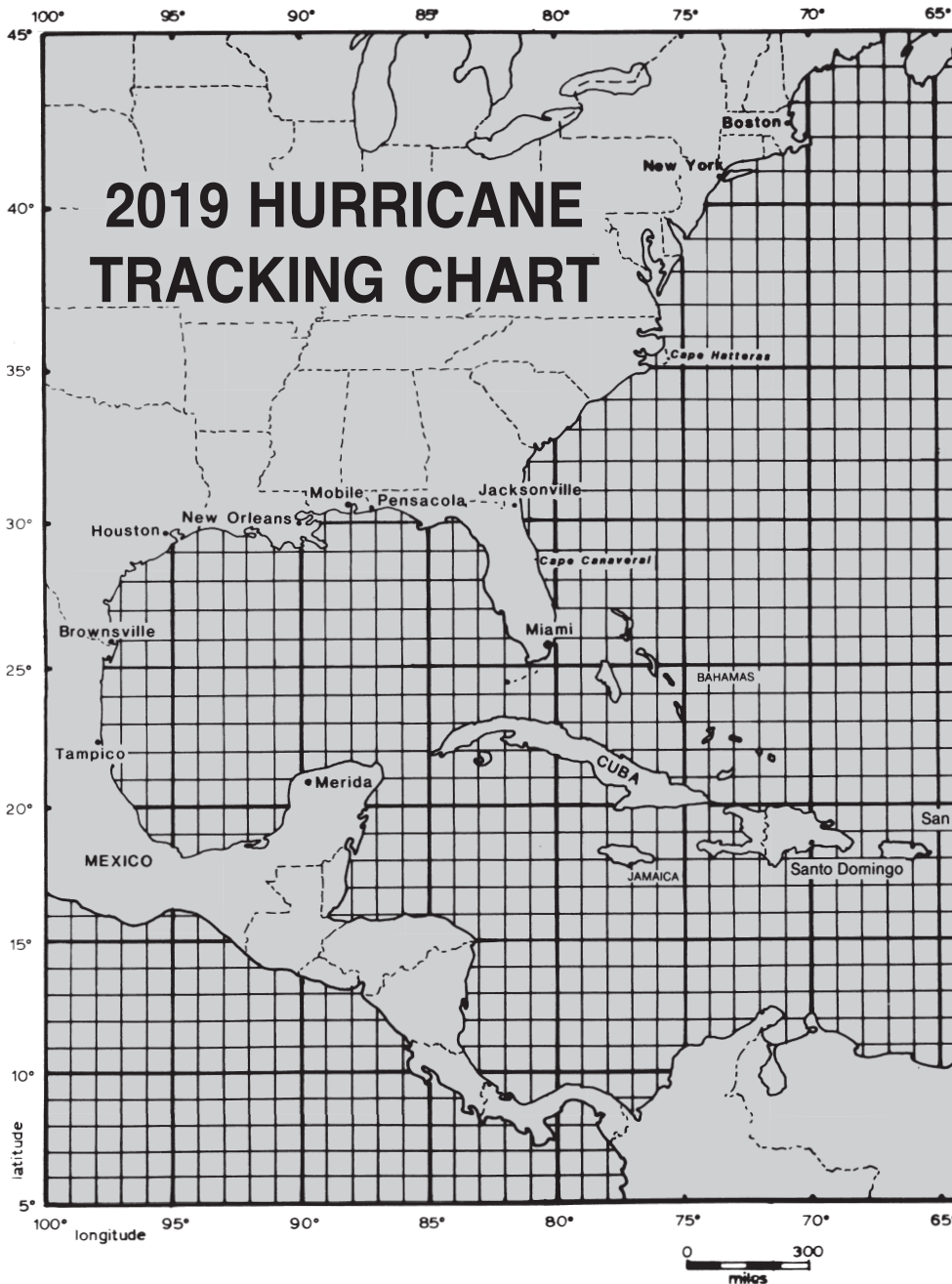
Photo courtesy of AL.com

Many streets on Dauphin Island were flooded on September 5 by Tropical Storm Gordon's storm surge. Although Gordon's sustained winds were gales, a hurricane force gust of 74 mph was recorded on the eastern end of the island.



2018 HURRICANE SEASON

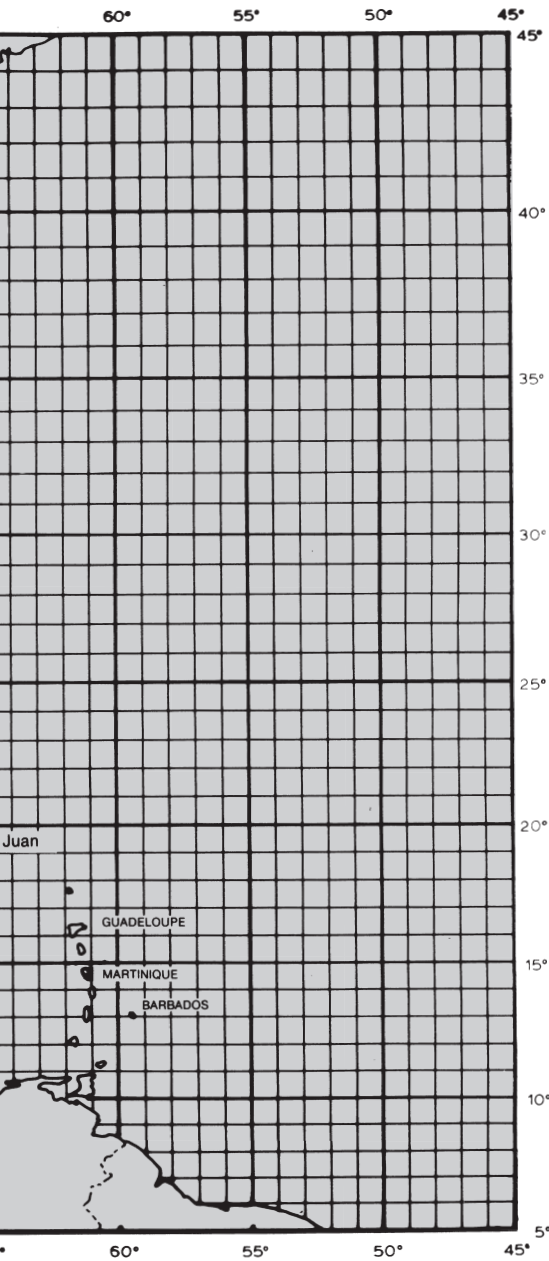
Hurricanes: Beryl, Chris, Florence, Helene, Isaac, Leslie, Michael and Oscar



Most Intense Hurricanes To Hit The U.S. 1900-2018

Costliest H

HURRICANE	YEAR	PRES. (in.)	HURRICANE	YEAR	PRES. (in.)	HURRICANE
1. Florida (Keys)	1935	26.35	6. Florida (Keys)/S. Texas	1919	27.37	1. HARVEY
2. CAMILLE (MS)	1969	26.84	7. IRMA (Keys)	2017	27.43	2. KATRINA
3. MICHAEL (FL)	2018	27.14	8. Florida (South Florida)	1928	27.43	3. IRMA
4. KATRINA (LA/MS)	2005	27.17	9. DONNA (Florida)	1960	27.46	4. SANDY
5. ANDREW (FL/LA)	1992	27.23	10. Florida (Miami)/MS/AL	1926	27.46	5. IKE



2019 ATLANTIC TROPICAL CYCLONE NAMES

ANDREA
 BARRY
 CHANTAL
 DORIAN
 ERIN
 FERNAND
 GABRIELLE
 HUMBERTO
 IMELDA
 JERRY
 KAREN
 LORENZO
 MELISSA
 NESTOR
 OLGA
 PABLO
 REBEKAH
 SEBASTIEN
 TANYA
 VAN
 WENDY

Deadliest Hurricanes To Hit The U.S. 1900-2018

HURRICANE	YEAR	DEATHS
1. Texas (Galveston)	1900	8,000
2. Florida (South Florida)	1928	2,500
3. KATRINA (LA/MS)	2005	1,200
4. New England	1938	600
5. Florida (Keys)/S. Texas	1919	600
6. AUDREY (LA/TX)	1957	416
7. Florida (Keys)	1935	408
8. Northeast United States	1944	390
9. Florida (Miami)/MS/AL	1926	372
10. Louisiana (Grand Isle)	1909	350

Hurricanes In The United States 1900-2018

Billions of Dollars at Time of Occurrence

YEAR	COST	HURRICANE	YEAR	COST
2017	198.6	6. ANDREW	1992	26.5
2005	108.0	7. WILMA	2005	21.0
2017	64.7	8. IVAN	2004	18.8
2012	50.0	9. CHARLEY	2004	15.1
2008	29.5	10. RITA	2005	12.0

JM OTTO

2018 HURRICANE SEASON IN REVIEW

by Dr. Keith G. Blackwell
Tropical Weather Specialist
Coastal Weather Research Center

Department of Earth Sciences, University of South Alabama

For the third year in a row, the 2018 Atlantic hurricane season experienced above-average activity (15 storms, 3 above normal). Three major factors affected 2018 storm activity: 1) water temperatures in the tropical Atlantic were below normal for much of the season, 2) formative stages of an El Niño resulted in strong wind shear across most of the Caribbean Sea, and 3) favorable conditions persisted in the subtropics. The first two factors generally kept storms weak in the tropical Atlantic and led to direct dissipation of the 3 storms which managed to make it to the eastern Caribbean. This was very different than the very favorable conditions which led to category 5 hurricanes in the Caribbean in both 2016 (Matthew) and 2017 (Maria). However, favorable conditions in the subtropical Atlantic aided development of a record 7 storms with non-tropical origins, eclipsing 5 in 1969.

The Accumulated Cyclone Energy (ACE) Index was 127% of normal this year compared to a remarkable 229% last year, 136% in 2016, and only 60% of normal in 2015. Eight hurricanes were observed (2 above normal) compared to 10 in 2017, 7 in 2016, 4 in 2015, and only 2 in 2014. Although only 2 major hurricanes occurred in 2018, Hurricane Michael became the 3rd strongest storm to make landfall in the U.S. mainland and the strongest U.S. storm since Hurricane Camille (1969). Michael was the fourth category 4 U.S. hurricane in the last 2 years, a record.

The 2018 hurricane season was also characterized by:

- An early “pre-season” storm in May (Alberto).
- No June storms.
- Two July hurricanes (normal 1 every other year).
- Inactive August with no tropical cyclones south of 30 °N latitude (first time since 1997).
- Near-normal September with 3 hurricanes.
- Above-normal October with 3 hurricanes.
- 2nd straight year of U.S. major hurricane landfalls (2018: Michael; 2017: Harvey, Irma & Maria).
- Two U.S. hurricane landfalls (Florence and Michael) and 2 U.S. tropical storm landfalls (Alberto and Gordon), all between MS and NC.
- Record high Accumulated Cyclone Energy (ACE) index for combined East Pacific/Atlantic basin storms (nearly double normal ACE).
- Third lowest U.S. pressure at landfall (Michael-919 mb), behind only Camille and 1935 storm.
- Third straight year with a FL hurricane landfall.
- Record strong storm in FL Panhandle (Michael).
- Second year of devastating floods from slow-moving tropical cyclones (Harvey in TX-2017 and Florence in NC/SC-2018).

The 2018 season began early with Tropical Storm Alberto striking the FL Panhandle in May. June was quiet, but 2 hurricanes roamed the Atlantic in July (Beryl and Chris) followed by two subtropical conversions there in August (TS Debby and Ernesto).

Florence kicked off September with a bang, becoming the first major hurricane. Florence was notable for 1) its longevity (18 days), 2) crossing the entire Atlantic while on a westward path from the Cape Verde Islands to the U.S. East Coast, and 3) its devastating floods in the Carolinas resulting from its large size and slow motion. Tropical Storm Gordon nearly attained hurricane strength as it made landfall in MS while hurricanes Helene, Isaac and Leslie along with tropical storms Joyce and Kirk roamed the Atlantic in September. Leslie was notable for its meandering track and long life (20 days) over the eastern Atlantic and for its rare severe post-tropical impact in Portugal with gusts over 100 mph there.

Extreme Hurricane Michael, the first of 3 October storms, formed from the merger of East Pacific and western Caribbean monsoon disturbances. Michael steadily intensified as it marched northward across the eastern Gulf and made landfall near Panama City, FL, at peak strength with 155 mph winds; impacts were devastating. The final 2 storms (TS Nadine and Hurricane Oscar) ended the season early while remaining far at sea. No storms occurred in November.

Name	Status	Month	Wind (mph)	Pressure (millibars)
Alberto	TS	May	65	990
Beryl	H-1	July	80	994
Chris	H-2	July	105	970
Debby	TS	August	50	1000
Ernesto	TS	August	45	999
Florence	MH-4	September	140	941
Gordon	TS	September	70	999
Helene	H-2	September	110	966
Isaac	H-1	September	75	993
Joyce	TS	September	45	997
Kirk	TS	September	60	998
Leslie	H-1	Sept-Oct	90	969
Michael	MH-4	October	155	919
Nadine	TS	October	65	997
Oscar	H-2	October	105	970

TS=Tropical Storm; H=Hurricane; MH=Major Hurricane

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Photo: U.S. Army Corp of Engineers, Mobile District. The Doy Leale McCall Rare Book Manuscript Library, USA

On the evening of September 12, 1979, Hurricane Frederic destroyed a major portion of the Dauphin Island Bridge. For several hours hurricane force winds, occasionally gusting to 140 mph, caused the waters of Mobile Bay to relentlessly pound the structure. For a couple of years after the storm, Dauphin Island was only accessible by boat until a new high-rise span was built.



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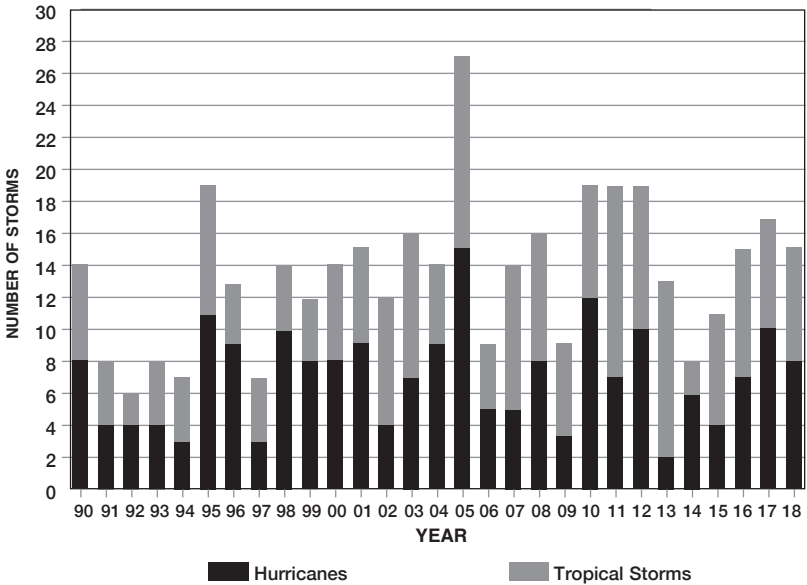
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TROPICAL STORMS AND HURRICANES 1990-2018



The above graph shows the number of tropical storms and hurricanes each year from 1990 through 2018 with hurricanes shown in black and tropical storms in gray. The 27 named storms in 2005 is the all-time seasonal record. Although 1992 only produced six storms, it was a very memorable year. Hurricane Andrew, the first storm that season, was the only storm to reach the coast as a category five hurricane during the 29-year period and only the third in history.



Photo courtesy of Mobile Press-Register

This boat storage facility on Dauphin Island was totally destroyed by Hurricane Frederic when an 8-foot storm surge and 140-mph wind gusts battered the structure.



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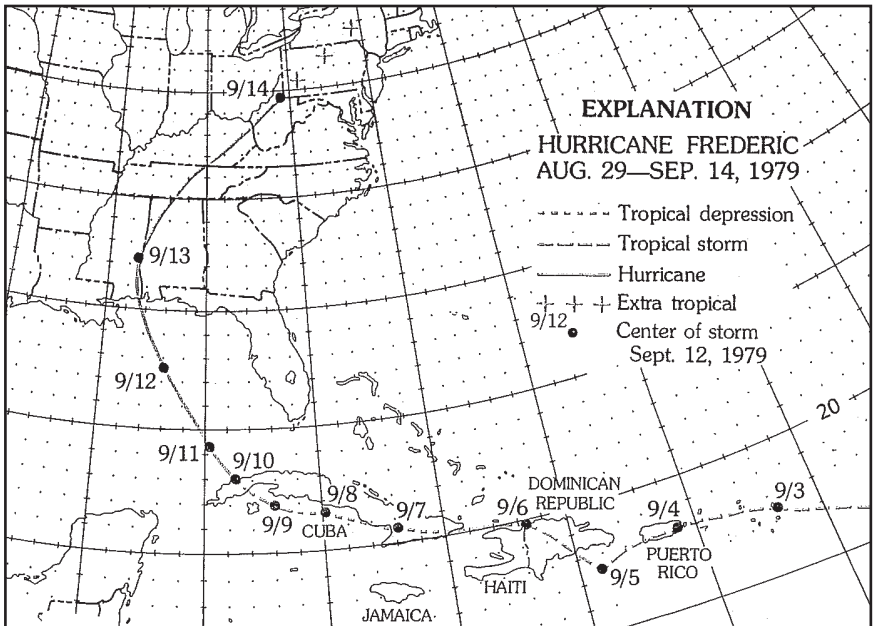
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Map courtesy of National Weather Service

Frederic had a long track that began near the African coast as an easterly wave. The storm reached tropical storm strength over the Atlantic then impacted the Leeward Islands, Puerto Rico and Hispaniola. Weakened by the high mountains of Hispaniola, Frederic crossed Cuba as a tropical depression. On September 10, Frederic entered the southeast Gulf of Mexico where upper atmospheric conditions were highly favorable for rapid strengthening. On the evening of September 12, Frederic made landfall on the Alabama-Mississippi border as a category 4 hurricane with sustained winds of 130 mph.



Photo: U.S. Army Corp of Engineers, Mobile District. The Dooy Leale McCall Rare Book Manuscript Library, USA

Frederic was the first hurricane since 1926 to cause a catastrophic loss of trees in the Mobile area. Most of the structural damage to homes was caused by pine trees that either snapped well above the ground or were uprooted.

ARE YOU STORM READY?

Make a safety plan before severe weather strikes.

The Mobile area can experience severe weather any time of year. That's why Alabama Power wants you to know we stay prepared to work quickly and safely to restore service. Meanwhile, there are things you can do to be ready for storms, and their aftermath.



BEFORE THE STORM

1. Charge cellphones, pagers and other electronic devices and make sure to have a battery-operated weather radio to stay informed at all times.
2. Create a family plan for emergencies and discuss how to stay safe in all weather conditions.
3. Set the thermostat to a comfortable level in your house. Keep doors and windows closed after the storm and your house will stay relatively comfortable for about 48 hours.
4. In the event of a tornado, plan to seek shelter inside a sturdy building, on the lowest level. Choose a small room with no windows, such as an interior closet, hallway or bathroom.



AFTER THE STORM

1. Report an outage or a hazardous situation, such as a downed power line, by calling our automated reporting system at 1-800-888-APCO (2726).
2. Make sure roads are safe before driving. Even after precipitation has stopped, the roads can still be dangerous.
3. Turn off appliances to avoid any potential safety hazards when power is restored.
4. Never drive over or under downed power lines, and keep children and pets away from them. Stay away from fallen trees or debris where downed lines can be hiding. Do not attempt to remove tree limbs caught in downed power lines. Call Alabama Power at 1-800-888-APCO (2726) or local law enforcement.



GENERATOR SAFETY

1. While portable generators can help keep appliances running during outages, they can also be deadly when used improperly. Always read and follow the manufacturer's instructions.
2. Connect only essential appliances such as a refrigerator directly to the generator. Plugging portable generators into your household electrical wiring can cause serious injury.
3. Always operate portable generators outdoors in a well-ventilated, dry area away from air intakes to the home to avoid carbon monoxide poisoning. A good location is an open shed.

🐦 f For more storm safety tips and information, visit AlabamaPower.com.

MOBILE WEATHER EXTREMES

(Degrees Fahrenheit, Inches of Precipitation)

HOTTEST DAYS

105° August 29, 2000
104° July 25, 1952
103° September 5, 1925
103° July 24, 1952
103° July 14, 1980
103° June 3, 2011

COLDEST DAYS

-1° February 13, 1899
3° January 21, 1985
6° February 12, 1899
7° January 11, 1962
7° January 11, 1982
8° December 25, 1983

WETTEST MONTHS

26.67 June 1900
24.12 September 1998
20.66 June 2003
20.50 July 1916
20.23 March 1929

DRIEST MONTHS

.00 October 2016
.00 October 1874
T October 1978
.02 October 1987
.03 October 1971

WETTEST YEARS

92.32 1881
91.18 1900
90.53 1947
89.86 1912
89.34 1929

DRIEST YEARS

37.15 1938
39.50 1904
42.35 1954
42.51 1890
43.96 1968

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Photo by Alan Whitman

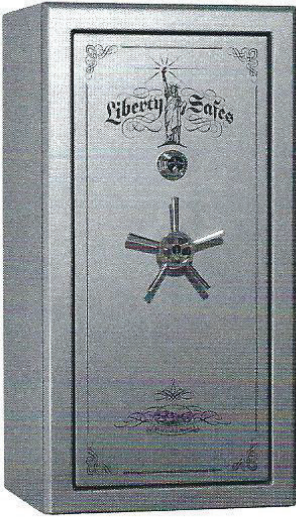
The thousands of trees that fell in the Mobile area during Frederic not only damaged homes and commercial buildings but also were largely responsible for the massive power outage that affected the area for weeks. Utility companies from across the nation quickly arrived on the scene with the task of rewiring the city and its metropolitan area.

ALABAMA DEEP SEA FISHING RODEO RECORD HOLDERS

		Lbs.	Oz.	Year
Amberjack	Don Adcock	120	13	2009
Barracuda	Steven Hawkins	52	4	2005
Black Drum	Dianna Fournier	62	13	2005
Blackfin Tuna	Brian Shumock	32	9	2008
Blackfish	Bobby Barnes	37	5	1976
Bluefish	Leo Cooper	14	4	1984
Blue Marlin	Frank Moorer	618	0	1991
Blue Runner	Donald Davis	10	4	1997
Bonita	W.A. March, Jr.	21	0	1956
Cavalla	Brian Pelton	48	5	1985
Dolphin	Bancroft McMurphy	58	8	1984
Drum	Richard Collier	56	4	1993
Flounder	Billy Sprinkle	10	4	1991
Gray Snapper	Chris Schwall	14	1	2006
Gafftopsail	Barry Bracknell, Jr.	8	13	1992
Gray Triggerfish	Richard Collier	10	8	2000
Grouper	Jere Austill, Jr.	74	8	1963
King Mackerel	Jeremy Goldman	69	15	2014
Ladyfish	Sam Wooley, III	3	15	1997
Lane Snapper	John Gentry	4	15	2016
Ling	Artie Scholtes	81	6	2002
Pompano	Wesley Wing	3	7	2017
Red Snapper	Frances Patric	37	8	1982
Sailfish	Robert L. Meador, Jr.	81	0	1974
Scamp	Chad Robbins	27	6	2006
Shark	Earl White	859	0	1981
Sheepshead	Richard Collier	13	7	1993
Spanish Mackerel	Lee Olander	7	12	1973
Speckled Trout	Trenny Woodham	8	14	2014
Tarpon	Charlie H. Jackson	173	0	1996
Tuna	Doyle Taylor	179	6	2006
Vermilion Snapper	Chad Robbins	5	4	2003
Wahoo	David L. Meadows, Jr.	92	12	1983
Warsaw Grouper	Michael Driver	226	0	1988
White Marlin	Randy Gibbs	93	8	1988
White Trout	Willard Lowery, Jr.	6	5	1998
Yellowfin Tuna	James Wink	182	0	2012

2018 ALABAMA DEEP SEA FISHING RODEO FIRST PLACE WINNERS

		Lbs.	Oz.
African Pompano	Adam Coleman	22	4
Barracuda	Donnie Connor, III	27	15
Black Drum	Charlie Jackson	49	12
Blackfin Tuna	Melvin Dunn	22	4
Blackfish	Harrison Jordan	23	12
Blue Runner	Blake Mead	7	4
Bluefish	Hunter Avery	4	0
Bonito	Larry S. Dean	18	10
Cobia	Derrick Saucier	59	4
Crevalle	David Keith Driskell	35	13
Dolphin	Stephen Laurendine	24	5
Flounder	Brandon Creal	5	6
Gafftopsail	Larry Harbison, Jr.	7	9
Gray Snapper	Corey Barnes	11	7
Grouper	Mike Eubanks	34	15
King Mackerel	Brad Sauers	44	14
Ladyfish	Jay Doole	2	15
Lane Snapper	Williams Trest, III	2	10
Pompano	John Moore	2	5
Redfish	Ryan Maxwell	7	12
Redfish (Live)	Barnie White	7	12
Red Snapper	Wyatt Anderson	25	11
Scamp	Tyler Kennedy	21	6
Shark	Chip Lindy	72	Pts
Sheepshead	Kyle Robertson	7	1
Spanish Mackerel	Joe Teague	5	3
Speckled Trout	Bryan Faulkner	6	15
Speckled Trout (Live)	Otis Collier	5	5
Tarpon	Chris Tew	625	Pts
Vermilion Snapper	Greg Blakeney	3	15
Wahoo	James Dailey	18	7
White Trout	Colby Stafford	2	1
Yellowfin Tuna	Harry F. Schilling	75	2



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2019 PREDICTED TIDES FOR MOBILE AND VICINITY

(See Pages 34-36)

TIDES

The tides are caused by the gravitational attraction of the moon and sun on the Earth. The moon is the primary tide force. As the Earth turns eastward on its axis, the tides move westward somewhat after the passage of the moon. The expected tide pattern is two high and two low tides in 24 hours (a semi-daily or semi-diurnal tide pattern). The Gulf Coast, however, has a pattern that usually has only one high tide and one low tide in 24 hours (a daily or diurnal pattern) except for several days during the month. Two to seven days a month will have two high and two low tides during which fishing is said to be poor.

TIDES AND WINDS

Mobile Bay is relatively shallow being less than 15 feet deep except in the ship channel (40 feet deep, 300 feet wide) and at the entrance to the Bay where natural inflow and outflow has made it deeper. Strong north winds that often accompany cold fronts may lower the water level of Mobile Bay causing boats to be grounded.

Likewise, strong south winds bring high water levels to the Bay

producing flooding that has often closed the Causeway. Strong winds can cause greater differences in Bay water levels than the tides.

TIDE CORRECTIONS

Tides given in the following tables are made up from National Ocean Survey data. Tides are based on mean low water (MLW) and are the predicted tides in feet and tenths of feet. A correction must be applied to the times and heights given in the tables for places other than the primary tides stations. For example, at Fort Gaines, at the Mobile Bay entrance, the tides will occur earlier (see Tidal Differences below). The High Tide is one hour and fifty-one minutes sooner at Fort Gaines (-1h51m) and the Low Tide is one hour and forty-nine minutes sooner (-1h49m) than at the mouth of the Mobile River. These times must be subtracted from the times listed in the Tide Tables. The height of predicted High Tide at Fort Gaines is also two-tenths of one foot less than that listed in the tables, hence, subtract this amount (-0.2) from the height of High Tide given to determine High Tide height at Fort Gaines.

TIDE CORRECTIONS FOR OTHER LOCATIONS BASED UPON THE TIDES AT THE MOUTH OF THE MOBILE RIVER (h=hours, m=minutes)

Place	Time		Height (ft.)	
	High	Low	High	Low
Mobile Pt. (Ft. Morgan)	-1h 46m	-1h 32m	-0.3	0.0
Ft. Gaines				
Mobile Bay entrance	-1h 51m	-1h 49m	-0.2	0.0
Bon Secour				
Bon Secour River	-1h 13m	-1h 17m	+0.1	0.0
Fowl River				
Mobile Bay entrance	-0h 19m	-0h 09m	0.0	0.0
Great Point Clear	-1h 03m	-0h 57m	-0.1	0.0
Lower Hall Landing				
Tensaw River	+2h 16m	+3h 05m	-0.2	0.0

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Photo courtesy of AL.com

Vehicles at the Mobile County EMA on McGregor Avenue were heavily damaged during Hurricane Frederic. Numerous pine trees fell on the parking lot as a result of hurricane force gusts that were recorded as high as 102 mph by the EMA anemometer.

2019 PREDICTED TIDES, MOUTH OF THE MOBILE RIVER

JANUARY

DATE	HIGH TIDE		LOW TIDE	
	Time	Height	Time	Height
Tue 1	8:16p	1.2	8:00a	-0.3
Wed 2	8:52p	1.3	8:23a	-0.5
Thu 3	9:30p	1.4	8:52a	-0.6
Fri 4	10:17p	1.4	9:25a	-0.7
Sat 5	10:59p	1.4	9:59a	-0.7
Sun 6	11:41p	1.3	10:32a	-0.7
Mon 7	-	-	11:02a	-0.6
Tue 8	12:21a	1.3	11:23a	-0.6
Wed 9	12:58a	1.2	11:34a	-0.5
Thu 10	1:33a	1.1	11:35a	-0.4
Fri 11	2:02a	0.9	11:29a	-0.3
Sat 12	2:15a	0.7	11:20a	-0.1
Sun 13	7:53p	0.6	-	-
Mon 14	7:09p	0.9	9:34a	0.0
Tue 15	7:17p	1.0	7:00a	-0.1
Wed 16	7:47p	1.2	7:06a	-0.4
Thu 17	8:30p	1.4	7:41a	-0.6
Fri 18	9:22p	1.5	8:23a	-0.8
Sat 19	10:16p	1.6	9:09a	-0.9
Sun 20	11:10p	1.6	9:57a	-1.0
Mon 21	-	-	10:44a	-1.0
Tue 22	12:01a	1.5	11:26a	-0.9
Wed 23	12:51a	1.4	11:59a	-0.6
Thu 24	1:38a	1.1	12:04p	-0.4
Fri 25	2:17a	0.8	11:30a	0.1
Sat 26	2:32a	0.5	10:52a	0.1
Sun 27	6:36p	0.6	-	-
Mon 28	6:13p	1.1	6:42a	-0.1
Tue 29	6:43p	1.2	7:01a	-0.3
Wed 30	7:25p	1.3	7:32a	-0.5
Thu 31	8:16p	1.3	8:06a	-0.6

FEBRUARY

DATE	HIGH TIDE		LOW TIDE	
	Time	Height	Time	Height
Fri 1	9:12p	1.3	8:40a	-0.6
Sat 2	10:06p	1.3	9:12a	-0.6
Sun 3	10:54p	1.3	9:41a	-0.6
Mon 4	11:37p	1.2	10:04a	-0.5
Tue 5	-	-	10:18a	-0.4
Wed 6	12:17a	1.1	10:21a	-0.3
Thu 7	12:56a	1.0	10:16a	-0.2
Fri 8	1:35a	0.9	10:06a	-0.1
Sat 9	6:18p	0.6	9:04p	0.5
Sun 10	5:94p	0.6	10:42p	0.4
Mon 11	5:22p	1.0	8:55a	0.2
Tue 12	5:41p	1.1	4:54a	0.0
Wed 13	6:14p	1.3	5:48a	-0.2
Thu 14	6:59p	1.4	6:38a	-0.4
Fri 15	7:58p	1.5	7:26a	-0.6
Sat 16	9:08p	1.6	8:12a	-0.7
Sun 17	10:16p	1.6	8:57a	-0.8
Mon 18	11:18p	1.5	9:39a	-0.7
Tue 19	-	-	10:16a	-0.6
Wed 20	12:15a	1.4	10:41a	-0.3
Thu 21	1:15a	1.2	10:34a	0.0
Fri 22	2:30a	0.9	10:00a	0.2
Sat 23	4:32a	0.6	9:29a	0.4
Sun 24	4:23p	0.8	11:24p	0.3
Mon 25	4:35p	1.3	3:53a	0.1
Tue 26	5:10p	1.4	5:11a	-0.1
Wed 27	5:53p	1.4	6:10a	-0.2
Thu 28	6:42p	1.4	6:58a	-0.3

MARCH

DATE	HIGH TIDE		LOW TIDE	
	Time	Height	Time	Height
Fri 1	7:41p	1.4	7:58a	-0.3
Sat 2	8:49p	1.4	8:13a	-0.3
Sun 3	9:55p	1.3	8:41a	-0.2
Mon 4	10:51p	1.3	9:01a	-0.2
Tue 5	11:40p	1.2	9:11a	-0.1
Wed 6	-	-	9:09a	0.1
Thu 7	12:28a	1.1	8:59a	0.2
Fri 8	1:24a	0.7	7:50p	0.6
Sat 9	3:52p	0.8	8:52p	0.5
Sun 10	2:44a	0.8	8:44a	0.4
Mon 11	3:25p	0.9	9:49p	0.4
Tue 12	4:24p	1.1	11:57p	0.3
Wed 13	5:07p	1.3	-	-
Thu 14	5:43p	1.6	4:35a	0.0
Fri 15	6:28p	1.6	6:01a	-0.1
Sat 16	7:23p	1.7	7:08a	-0.3
Sun 17	8:30p	1.7	8:02a	-0.4
Mon 18	9:54p	1.6	8:48a	-0.4
Tue 19	11:23p	1.5	9:29a	-0.3
Wed 20	12:43a	1.4	10:02a	-0.1
Thu 21	2:14a	1.2	9:59a	0.4
Fri 22	4:19a	1.0	9:28a	0.6
Sat 23	3:32p	0.9	10:01p	0.4
Sun 24	2:58p	1.2	11:17p	0.3
Mon 25	3:19p	1.4	-	-
Tue 26	3:55p	1.6	1:10a	0.2
Wed 27	4:37p	1.6	3:38a	0.1
Thu 28	5:22p	1.7	5:01a	0.1
Fri 29	6:09p	1.6	6:13a	0.0
Sat 30	7:00p	1.6	7:10a	0.0
Sun 31	7:57p	1.5	7:54a	0.0
Mon 1	9:08p	1.4	8:26a	0.1

*After 2:00 a.m. Sunday, March 10, times are shown in Daylight Saving time until 2:00 am Sunday, November 3.

APRIL

DATE	HIGH TIDE		LOW TIDE	
	Time	Height	Time	Height
Mon 1	10:36p	1.3	8:47a	0.2
Tue 2	11:56p	1.2	8:54a	0.3
Wed 3	-	-	8:46a	0.5
Thu 4	4:01p	0.9	7:47p	0.8
Fri 5	2:59p	1.1	8:30a	0.6
Sat 6	2:44a	0.9	8:50p	0.7
Sun 7	4:22a	1.1	9:37p	0.5
Mon 8	4:52a	0.9	8:06a	0.8
Tue 9	2:19p	1.3	10:21p	0.4
Wed 10	2:33p	1.5	11:10p	0.3
Thu 11	3:00p	1.6	-	-
Fri 12	3:35p	1.7	12:23a	0.2
Sat 13	4:17p	1.8	2:33a	0.1
Sun 14	5:04p	1.9	4:08a	0.0
Mon 15	5:55p	1.9	5:24a	-0.1
Tue 16	6:50p	1.8	6:29a	-0.1
Wed 17	7:52p	1.7	7:24a	-0.1
Thu 18	8:52p	1.5	8:08a	0.1
Fri 19	9:25p	1.5	8:38a	0.3
Sat 20	10:00p	1.3	8:39a	0.6
Sun 21	10:50p	1.0	7:01p	0.8
Mon 22	2:04p	1.1	8:06a	0.8
Tue 23	2:49p	1.1	8:39p	0.6
Wed 24	3:31p	1.9	1:32a	0.1
Thu 25	4:16p	1.9	2:56a	0.1
Fri 26	5:03p	1.7	4:05a	0.1
Sat 27	5:50p	1.6	5:04a	0.2
Sun 28	6:36p	1.4	6:34a	0.3
Mon 29	7:42p	1.3	6:57a	0.4
Tue 30	2:50p	1.1	6:56a	0.6
Wed 31	9:53p	1.1	6:36p	1.1

2019 PREDICTED TIDES, MOUTH OF THE MOBILE RIVER

MAY

DATE	HIGH TIDE		LOW TIDE	
	Time	Height	Time	Height
Wed 1	-	6.32a	0.7	-
Thu 1	1:47p	1.1	8:12p	0.9
Thu 2	1:03a	1.0	5:59a	0.9
Thu 3	12:58p	1.2	8:53p	0.6
Fri 3	1:24:00p	1.4	9:28p	0.5
Sat 4	1:12:48p	1.6	10:06p	0.3
Sun 5	1:03p	1.7	10:51p	0.2
Mon 6	1:39p	1.9	11:52p	0.1
Tue 7	2:17p	2.0	-	-
Wed 8	3:02p	2.0	1:17a	0.0
Thu 9	3:51p	2.0	2:38a	0.0
Fri 10	4:41p	2.0	3:44a	-0.1
Sat 11	5:29p	1.9	4:42a	0.0
Sun 12	6:14p	1.7	5:34a	0.1
Mon 13	6:54p	1.4	6:15a	0.3
Tue 14	2:02p	1.1	6:24a	0.6
Wed 15	-	-	4:10p	1.1
Thu 16	2:38a	1.0	4:40a	1.0
Fri 17	1:15:11a	1.5	9:19p	0.5
Sat 18	12:07p	1.8	9:56p	0.3
Sun 19	12:39p	1.9	11:28p	0.1
Mon 20	1:18p	2.0	-	-
Tue 21	2:00p	2.0	12:26a	0.0
Wed 22	2:45p	2.0	1:28a	0.0
Thu 23	3:31p	1.9	2:24a	0.1
Fri 24	4:15p	1.8	3:09a	0.1
Sat 25	4:54p	1.7	3:44a	0.2
Sun 26	5:27p	1.5	4:07a	0.3
Mon 27	5:43p	1.3	4:13a	0.5
Tue 28	1:27p	1.2	4:00a	0.6
Wed 29	-	-	3:30a	0.8
Thu 30	1:20:09p	1.2	9:44p	0.8
Fri 31	11:17a	1.3	9:01p	0.6
Sat 31	11:11:0a	1.5	9:20p	0.4

JUNE

DATE	HIGH TIDE		LOW TIDE	
	Time	Height	Time	Height
Sat 1	11:27a	1.7	9:52p	0.2
Sun 2	11:56a	1.8	10:34p	0.0
Mon 3	12:33p	2.0	11:26p	-0.1
Tue 4	1:15p	2.1	-	-
Wed 5	2:01p	2.1	12:26a	-0.2
Thu 6	2:50p	2.1	1:29a	-0.2
Fri 7	3:40p	2.0	2:24a	-0.2
Sat 8	4:26p	1.9	3:11a	-0.1
Sun 9	5:05p	1.7	3:47a	0.1
Mon 10	5:31p	1.4	3:58a	0.4
Tue 11	12:15p	1.1	3:29a	0.6
Wed 12	-	-	2:47a	0.8
Thu 13	10:16a	1.4	9:27p	0.4
Fri 14	10:21a	1.6	9:52p	0.2
Sat 15	10:54a	1.8	10:25p	0.1
Sun 16	11:34a	1.9	11:03p	0.0
Mon 17	12:18p	2.0	11:45p	0.0
Tue 18	1:02p	2.0	-	-
Wed 19	1:47p	2.0	12:27a	0.0
Thu 20	2:32p	1.9	1:07a	0.0
Fri 21	3:15p	1.8	1:40a	0.1
Sat 22	3:54p	1.7	2:02a	0.2
Sun 23	4:28p	1.5	2:11a	0.3
Mon 24	4:51p	1.3	2:06a	0.5
Tue 25	12:34p	1.1	1:44a	0.6
Wed 26	-	-	9:21a	0.7
Thu 27	9:01a	1.4	8:50p	0.6
Fri 28	9:18a	1.5	8:53p	0.4
Sat 29	9:54a	1.7	9:22p	0.2
Sun 30	10:38a	1.9	10:01p	0.0

JULY

DATE	HIGH TIDE		LOW TIDE	
	Time	Height	Time	Height
Mon 1	11:27a	2.0	10:47p	-0.1
Tue 2	11:21:7p	2.1	11:37p	-0.2
Wed 3	1:09p	2.2	-	-
Thu 4	2:01p	2.1	12:28a	-0.2
Fri 5	2:53p	2.1	1:16a	-0.2
Sat 6	3:42p	1.9	1:56a	0.0
Sun 7	4:25p	1.6	2:21a	0.2
Mon 8	4:52p	1.3	2:09a	0.5
Tue 9	9:10a	1.1	1:27a	0.7
Wed 10	4:37p	1.0	1:51p	1.0
Thu 11	7:56a	1.3	8:39p	0.6
Fri 12	7:57a	1.5	8:47p	0.4
Sat 13	8:33a	1.7	9:15p	0.2
Sun 14	9:23a	1.8	9:49p	0.1
Mon 15	11:16a	1.9	11:00p	0.0
Tue 16	12:08p	1.9	11:35p	0.1
Wed 17	1:257p	1.9	-	-
Thu 18	1:42p	1.9	12:04a	0.1
Fri 19	2:26p	1.8	12:26a	0.2
Sat 20	3:08p	1.7	12:36a	0.3
Sun 21	3:49p	1.5	12:34a	0.4
Mon 22	4:28p	1.4	12:24a	0.6
Tue 23	-	-	12:09a	0.7
Wed 24	6:57a	1.3	2:57p	0.9
Thu 25	7:03a	0.9	10:28p	0.8
Fri 26	7:27a	1.6	7:55p	0.5
Sat 27	8:05a	1.8	8:30p	0.3
Sun 28	8:56a	1.9	9:12p	0.1
Mon 29	10:05a	2.0	9:56p	0.0
Tue 30	11:14a	2.1	10:41p	-0.1
Wed 31	11:21:6p	2.2	11:26p	-0.1

AUGUST

DATE	HIGH TIDE		LOW TIDE	
	Time	Height	Time	Height
Thu 1	1:15p	2.1	-	-
Fri 2	2:14p	2.0	12:09a	0.0
Sat 3	3:16p	1.9	12:46a	0.2
Sun 4	4:21p	1.6	1:04a	0.4
Mon 5	-	-	12:31a	0.7
Tue 6	7:14a	1.0	10:28a	1.0
Wed 7	5:30p	1.3	11:47p	0.9
Thu 8	6:18a	1.2	12:20p	0.9
Fri 9	7:34p	1.0	10:31p	1.0
Sat 10	8:17a	1.7	7:22p	0.5
Sun 11	8:43a	1.9	8:52p	0.3
Mon 12	9:43a	1.9	9:31p	0.2
Tue 13	11:07a	1.9	10:09p	0.2
Wed 14	12:07p	1.9	11:02p	0.3
Thu 15	12:58p	1.8	11:17p	0.4
Fri 16	1:45p	1.8	11:59p	0.6
Sat 17	2:33p	1.8	11:09p	0.7
Sun 18	6:46a	1.1	9:01a	1.1
Mon 19	5:47a	1.2	10:04a	1.0
Tue 20	5:11a	1.4	10:47p	0.9
Wed 21	5:08a	1.5	12:10p	0.9
Thu 22	5:23a	1.1	9:31p	1.1
Fri 23	5:50a	1.8	2:02p	0.8
Sat 24	6:27a	1.9	6:59p	0.5
Sun 25	7:15a	2.0	7:59p	0.3
Mon 26	8:19a	2.0	8:49p	0.2
Tue 27	9:43a	2.1	9:35p	0.1
Wed 28	11:11a	2.1	10:18p	0.1
Thu 29	12:27p	2.1	10:56p	0.3
Fri 30	1:40p	1.9	11:30p	0.5
Sat 31	3:05p	1.8	11:36p	0.8

2019 PREDICTED TIDES, MOUTH OF THE MOBILE RIVER

SEPTEMBER

DATE	HIGH TIDE		LOW TIDE	
	Time	Height	Time	Height
Sun 1	5:42a	1.1	8:49a	1.0
Mon 1	4:45p	1.6	10:53p	1.0
Mon 2	4:45a	1.2	10:08a	0.8
Tue 3	6:25p	1.4	10:16p	1.2
Tue 3	3:40a	1.5	11:27a	0.7
Wed 4	3:59a	1.7	11:11p	0.7
Thu 5	4:37a	1.9	4:23p	0.6
Fri 6	5:21a	2.0	6:12p	0.5
Sat 7	6:10a	2.0	7:25p	0.4
Sun 8	7:03a	2.0	8:15p	0.4
Mon 9	8:06a	1.9	8:55p	0.5
Tue 10	9:27a	1.8	9:27p	0.5
Wed 11	10:57a	1.7	9:50p	0.6
Thu 12	12:09p	1.7	9:59p	0.7
Fri 13	1:09p	1.6	9:52p	0.8
Sat 14	4:53a	1.2	8:07a	1.1
Sun 15	2:13p	1.5	9:39p	1.0
Mon 16	3:52a	1.2	9:04a	1.0
Mon 16	3:37p	1.4	9:27p	1.1
Mon 16	2:59a	1.4	9:49a	0.9
Tue 17	5:12p	1.3	9:15p	1.2
Tue 17	2:54a	1.5	10:31a	0.8
Wed 18	6:48p	1.2	8:53p	1.2
Wed 18	3:10a	1.7	11:16a	0.7
Thu 19	3:37a	1.8	12:16p	0.6
Fri 20	4:11a	1.9	2:09p	0.6
Sat 21	4:53a	2.0	4:30p	0.5
Sun 22	5:42a	2.0	6:06p	0.4
Mon 23	6:38a	2.0	7:16p	0.3
Tue 24	7:45a	2.0	8:11p	0.3
Wed 25	9:18a	1.9	8:57p	0.3
Thu 26	11:19a	1.8	9:34p	0.5
Fri 27	1:04p	1.7	9:58p	0.8
Sat 28	3:57a	1.1	7:06a	1.0
Sun 29	2:57p	1.5	9:41p	1.0
Mon 30	2:55a	1.2	8:38a	0.8
Mon 30	5:01p	1.4	9:00p	1.3
Mon 30	1:21a	1.4	9:46a	0.6

OCTOBER

DATE	HIGH TIDE		LOW TIDE	
	Time	Height	Time	Height
Tue 1	1:38a	1.7	10:50a	0.5
Wed 2	2:14a	1.9	10:53p	0.4
Thu 3	2:57a	2.0	1:57p	0.4
Fri 4	3:46a	2.0	3:43p	0.4
Sat 5	4:37a	2.0	5:04p	0.4
Sun 6	5:29a	1.9	6:14p	0.4
Mon 7	6:22a	1.8	7:07p	0.5
Tue 8	7:19a	1.7	7:49p	0.6
Wed 9	8:32a	1.5	8:08p	0.7
Thu 10	10:37a	1.4	8:08p	0.8
Fri 11	2:53a	1.2	7:01a	1.1
Sat 12	2:35p	1.3	7:48p	0.9
Sun 13	1:11a	1.3	8:56a	0.7
Mon 14	1:00a	1.5	9:34a	0.6
Tue 15	1:12a	1.6	10:10a	0.4
Wed 16	1:34a	1.8	10:48a	0.3
Thu 17	2:03a	1.9	11:37a	0.3
Fri 18	2:40a	1.9	12:55p	0.2
Sat 19	3:23a	2.0	2:42p	0.2
Sun 20	4:13a	2.0	4:04p	0.1
Mon 21	5:07a	1.9	5:12p	0.1
Tue 22	6:03a	1.8	6:13p	0.2
Wed 23	7:04a	1.7	7:02p	0.3
Thu 24	8:29a	1.4	7:34p	0.5
Fri 25	2:25a	1.1	5:02a	1.0
Sat 26	12:20p	1.2	7:24p	0.8
Sun 27	1:35a	1.1	7:16a	0.8
Mon 28	2:54p	1.1	6:35p	1.0
Tue 29	12:55a	1.3	8:36a	0.5
Wed 30	12:23a	1.7	10:31a	0.1
Thu 31	1:37a	2.0	12:47p	0.0

NOVEMBER

DATE	HIGH TIDE		LOW TIDE	
	Time	Height	Time	Height
Fri 1	2:22a	1.9	2:05p	0.0
Sat 2	3:10a	1.9	3:09p	0.0
Sun 3*	3:00a	1.8	2:59p	0.1
Mon 4	3:49a	1.6	3:39p	0.2
Tue 5	4:33a	1.4	4:04p	0.3
Wed 6	5:11a	1.2	4:09p	0.5
Thu 7	12:45a	1.1	3:54p	0.6
Fri 8	12:07a	1.1	3:12p	0.7
Sat 9	11:17p	1.1	-	-
Sun 10	10:41p	1.3	7:30a	0.6
Mon 11	10:40p	1.4	7:56a	0.3
Tue 12	10:57p	1.6	8:25a	0.2
Wed 13	11:53p	1.8	9:35a	-0.1
Thu 14	-	-	10:23a	-0.2
Fri 15	12:29a	1.8	11:26a	-0.2
Sat 16	1:11a	1.8	12:39p	-0.3
Sun 17	1:57a	1.8	1:40p	-0.3
Mon 18	2:48a	1.7	2:30p	-0.2
Tue 19	3:38a	1.6	3:10p	-0.1
Wed 20	4:24a	1.4	3:39p	0.1
Thu 21	5:00a	1.1	3:29p	0.3
Fri 22	11:39p	0.9	-	-
Sat 23	10:55p	1.0	3:01p	0.5
Sun 24	9:57p	1.4	8:07a	0.1
Mon 25	10:21p	1.6	8:43a	-0.2
Tue 26	10:55p	1.7	9:25a	-0.3
Wed 27	11:35p	1.8	10:13a	-0.4
Thu 28	-	-	11:06a	-0.5
Fri 29	12:17a	1.7	12:00p	-0.4
Sat 30	1:01a	1.7	12:48p	-0.4

*Times are shown in Central Standard Time beginning 2:00 a.m. Sunday, November 3.

DECEMBER

DATE	HIGH TIDE		LOW TIDE	
	Time	Height	Time	Height
Sun 1	1:45a	1.5	1:24p	-0.2
Mon 2	2:28a	1.4	1:49p	-0.3
Tue 3	3:06a	1.2	2:00p	-0.1
Wed 4	3:27a	1.0	1:57p	0.1
Thu 5	11:41p	0.9	-	-
Thu 5	10:47p	0.8	1:35p	0.2
Fri 6	9:44p	0.9	12:06p	0.3
Sat 7	9:15p	1.1	8:25a	0.2
Sun 8	9:23p	1.2	7:56a	0.0
Mon 9	9:48p	1.4	8:12a	-0.2
Tue 10	10:17p	1.5	8:42a	-0.4
Wed 11	10:53p	1.6	9:19a	-0.5
Thu 12	11:32p	1.6	10:03a	-0.6
Fri 13	-	-	10:53a	-0.7
Sat 14	12:15a	1.7	11:46a	-0.7
Sun 15	1:00a	1.6	12:34p	-0.7
Mon 16	1:46a	1.5	1:14p	-0.6
Tue 17	2:31a	1.3	1:40p	-0.4
Wed 18	3:09a	1.1	1:43p	-0.2
Thu 19	3:26a	0.8	1:24p	0.0
Fri 20	9:59p	0.7	-	-
Sat 21	8:32p	1.0	7:54a	0.0
Sun 22	8:42p	1.3	8:02a	-0.3
Mon 23	9:15p	1.4	8:30a	-0.5
Tue 24	9:59p	1.5	9:06a	-0.7
Wed 25	10:40p	1.6	9:45a	-0.7
Thu 26	11:23p	1.5	10:28a	-0.7
Fri 27	-	-	11:06a	-0.7
Sat 28	12:07a	1.5	11:41a	-0.7
Sun 29	12:49a	1.4	12:06p	-0.6
Mon 30	1:29a	1.2	12:20p	-0.4
Tue 31	2:04a	1.0	12:22p	-0.3



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