
ELDRIDGE

TIDE AND PILOT BOOK

2016 Supplement

The following information is compiled from forecasts and Local Notices To Mariners updated through May 1, 2016. While all possible care has been taken, there may be discrepancies in these changes through no fault of the Publisher or the Coast Guard.

Tides and Current Tables

P. 193 **Miami Harbor Entrance** – The information listed for December 2016 is off by one day (e.g., information for Dec 6th is printed as if for Dec 5th.) Please see the corrected page in its entirety attached at the end of this supplement.

Lights, Fog Signals, & Offshore Buoys

Entries are reproduced in their entirety with changes underlined and deletions ~~struck through~~.

P. 167 Nova Scotia, East Coast

Egg Is. Lt., center of Is. – LFl. W. ev. 6 s., Ht. 7.6 m. (25'), Rge. 12 mi., (44-39-52.7N/62-51-48.4W)

Betty Is. Lt., on Brig Pt. – LFl. W. ev. 15 s., Horn 1 bl. ev. 60 s., Ht. 19.2 m. (63'), Rge. 13 mi., (44-26-19.7N/63-46-00.4W)

P. 169 Baccaro Point Lt., E. side entr. to Barrington Bay – Mo(D)W ev. 10 s., ~~Keyed (VHF 65-15 min.)~~ Horn 1 bl. ev. 20 s., Horn points 200°, Ht. 15.0 m. (49'), Rge. 15 mi., (43-26-59N/65-28-15W)

Nova Scotia, West Coast

Prim Pt. Lt., Digby Gut, W. Pt. of entr. to Annapolis Basin – Iso. W. ev. 6 s., ~~Horn 1 bl. ev. 30 s., Horn points 318°~~, Ht. 24.8 m. (82'), Rge. 12 mi., (44-41-28N/65-47-10.8W)

P. 171 New Brunswick Coast

Great Duck Is. Lt., S. end of Is. – Fl. W. ev. 10 s., Horn 1 bl. ev. 60 s., Horn points 120°, Ht. 16.5 m. (54'), Rge. 18 mi., (44-41-03.5N/66-41-36.4W)

Maine

Egg Rock Lt., Frenchman Bay – Fl. R. ev. 5 s., Keyed (VHF 83A) Horn 2 bl. ev. 30 s., Ht. 64', Rge. 18 mi., (44-21-14N/68-08-18W)

P. 173 Goose Rocks Lt., E. Entr. Fox Is. Thorofare – Fl. R. ev. 6 s., W. Sect. 301°-304°, Keyed (VHF 83A) Horn 1 bl. ev. 10 s., Ht. 51', Rge. R. 11 mi., W. 12 mi., (44-08-08N/68-49-50W)

Heron Neck Lt., E. Entr. Hurricane Sound – F.R., W. Sect. 030°-063°, Keyed (VHF 83A) Horn 1 bl. ev. 30 s., Ht. 92', Rge. R. 7 mi., W. 9 mi., (44-01-30N/68-51-44W)

Two-Bush Island Lt., Two-Bush Ch. – Fl. W. ev. 5 s., R. Sect. 061°-247°, Keyed (VHF 83A) Horn 1 bl. ev. 15 s., Ht. 65', Rge. W. 21 mi., R. 15 mi., (43-57-51N/69-04-26W)

Whitehead Lt., W. side of S. entr. Muscle Ridge Ch. – Oc.G. ev. 4 s., Keyed (VHF 83A) Horn 2 bl. ev. 30 s., Ht. 75', Rge. 6 mi., (43-58-43N/69-07-27W)

- Owls Head Lt., S. side Rockland Entr. – F.W., Keyed (VHF 83A) Horn 2 bl. ev. 20 s., Ht. 100', Rge. 16 mi., Obscured from 324°-354° by Monroe Island, ltd. 24 hrs., (44-05-32N/69-02-38W)
- Browns Head Lt., W. Entr. Fox Is. Thorofare – F.W., 2 R. Sect. 001°-050° and 061°-091°, Keyed (VHF 83A) Horn 1 bl. ev. 10 s., Ht. 39', Rge. R. 11 mi., F.W. 14 mi., ltd. 24 hrs., (44-06-42N/68-54-34W)
- Fort Point Lt., W. side Entr. to Penobscot R. – F.W., Keyed (VHF 83A) Horn 1 bl. ev. 10 s., Ht. 88', Rge. 15 mi., ltd. 24 hrs., (44-28-02N/68-48-42W)
- Marshall Point Lt., E. side of Pt. Clyde Hbr. S. Entr. – F.W., Keyed (VHF 83A) Horn 1 bl. ev. 10 s., Ht. 30', Rge. 13 mi., ltd. 24 hrs., (43-55-03N/69-15-41W)
- P. 175 Monhegan Island Lt., Penobscot Bay – Fl. W. ev. 15 s., Ht. 178', Rge. 20 mi., Obscured between west and southwest within 3 mi of island (43-45-53N/69-18-57W)
- Franklin Is. Lt., Muscongus Bay – Fl. W. ev. 6 s., Ht. 57', Rge. 8 mi., Obscured from 253°-352° by trees (43-53-31N/69-22-29W)
- Seguin Lt., 2 mi. S. of Kennebec R. mouth – F.W., Keyed (VHF 83A) Horn 2 bl. ev. 20 s., Ht. 180', Rge. 18 mi., (43-42-27N/69-45-29W)
- Pond Is. Lt., Kennebec R. mouth W. side – Iso. W. ev. 6 s., Keyed (VHF 83A) Horn 2 bl. ev. 30 s., Ht. 52', Rge. 9 mi., Higher intensity beam up and down river (43-44-24N/69-46-13W)
- Cape Elizabeth Lt., S. of Portland Hbr. Entr. – Fl(4) W. ev. 15 s., Keyed (VHF 83A) Horn 2 bl. ev. 60 s., Ht. 129', Rge. 15 mi., ltd. 24 hrs., (43-33-58N/70-12-00W)
- Portland Head Lt., SW side Portland Hbr. Entr. – Fl. W. ev. 4 s., Keyed (VHF 83A) Horn 1 bl. ev. 15 s., Ht. 101', Rge. 24 mi., ltd. 24 hrs., (43-37-23N/70-12-28W)
- Spring Pt. Ledge Lt., Portland main ch. W. side – Fl. W. ev. 6 s., 2 R. Sect., 2 W. Sectors 331°-337° Covers fairway entrance, and 074°-288°, Keyed (VHF 83A) Horn 1 bl. ev. 10 s., Ht. 54', Rge. R. 10 mi., W. 12 mi., ltd. 24 hrs., (43-39-08N/70-13-26W)
- Goat Is. Lt., Cape Porpoise Hbr. Entr. – Fl. W. ev. 6 s., Keyed (VHF 83A) Horn 1 bl. ev. 15 s., Ht. 38', Rge. 12 mi., (43-21-28N/70-25-30W)
- P. 177 Boon Is. Lt., 6.5 mi. off coast – Fl. W. ev. 5 s., Horn 1 bl. ev. 10 s., Ht. 137', Rge. 14 mi., (43-07-17N/70-28-35W)

New Hampshire

- Whaleback Lt., Portsmouth Entr. NE side – Fl(2) W. ev. 10 s., Keyed (VHF 83A) Horn 2 bl. ev. 30 s., Ht. 59', Rge. 11 mi., (43-03-32N/70-41-47W)
- Portsmouth Harbor Lt. (New Castle), on Fort Point – F. G., Keyed (VHF 83A) Horn 1 bl. ev. 10 s., Ht. 52', Rge. 12 mi., (43-04-16N/70-42-31W)

Massachusetts

- Rockport Breakwater Lt. #6, W. side Entr. Rockport inner hbr. – Fl. R. ev. 4 s., Ht. 32', Rge. 4 mi., TR on tower, (42-39-39N/70-36-43W)
- Straitsmouth Lt., Rockport Entr. S. side – Fl. G. ev. 6 s., Keyed (VHF 83A) Horn 1 bl. ev. 15 s., Ht. 46', Rge. 6 mi., (42-39-44N/70-35-17W)
- Hospital Point Range Front Lt., Beverly Cove W. side – F.W., Ht. 69', Higher intensity on range line (42-32-47N/70-51-21W)
- Deer Island Lt., President Roads, Boston Hbr. – Alt. W. and R. ev. 10 s., ~~R. Sect. 198°-222°, Obscured 112°-186°~~, Keyed (VHF 83A) Horn 1 bl. ev. 10 s., Ht. 53', Rge. 9 mi., (42-20-22N/70-57-22W)
- ~~Deer Island Danger Lt., On south end of spit – F.R., R. Sect. 198°-222°, Ht. 15', Rge. 6 mi., (42-20-23N/70-57-16W)~~
- P. 179 Minots Ledge Lt., Boston Hbr. Entr. S. side – Fl(1+4+3) W. ev. 45 s., Keyed (VHF 83A) Horn 1 bl. ev. 10 s., Ht. 85', Rge. 10 mi., (42-16-11N/70-45-33W)

Hyannis Harbor App. Ltd. Bell By. "HH" – Mo(A)W, Rge. 4 mi., RWSRST, (41-35-57N/70-17-22W)

- P. 181 Nobska Point Lt., Woods Hole E. Entr. – Fl. W. ev. 6 s., Obscured 125°-195°, R. Sect. 263°-289° (covers Hedge Fence and L'Hommedieu Shoal), Horn 2 bl. ev. 30 s., Ht. 87', Rge. R. 11 mi., W. 13 mi., ltd 24 hrs., (41-30-57N/70-39-18W)

Gay Head Lt., W. point of Martha's Vineyard – Alt. W. and R. ev. 15 s., Ht. 175', Rge. W. 24 mi., R. 20 mi., Obscured 342°-359° by Nomans Land, ltd. 24 hrs., (41-20-54N/70-50-04W)

Buzzards Bay

Cleveland East Ledge Lt., Cape Cod Canal App. E. side of S. Entr. – Fl. W. ev. 10 s., Horn 1 bl. ev. 15 s., Ht. 74', Rge. 14 mi., Racon (C), (41-37-51N/70-41-39W)

Rhode Island

Sakonnet Lt. – Fl. W. ev. 6 s., R. sect. 195°-350°, Ht. 70', Rge. W. 7 mi., R. 5 mi., (41-27-11N/71-12-09W)

- P. 183 Hog Island Shoal Lt., N. side Entr. to Mt. Hope Bay – Iso. W. ev. 6 s., Keyed (VHF 83A) Horn 2 bl. ev 30s., Ht. 54', Rge. 12 mi., (41-37-56N/71-16-24W)

Long Island Sound, North Side

Bartlett Reef Lt., S. end of reef – Fl. W. ev. 6 s., Keyed (VHF 83A) Horn 2 bl. ev. 60 s., Ht. 35', Rge. 8 mi., (41-16-28N/72-08-14W)

- P. 187 **New York Harbor & Approaches**

~~Governors Is. Extension Lt., SW Pt. of Is. – F. R., Ht. 47', Rge. 9 mi., (40-41-09N/74-01-35W)~~

- P. 189 Old Orchard Shoal Lt., N.Y. Hbr. – Fl. W. ev. 6 s., ~~R. Sect. 087°-203°~~, Ht. 20', Rge. 4 mi., (40-30-44N/74-05-55W)

New Jersey

Barnegat Inlet S. Breakwater Lt. #7 – Q. G., Ht. 35', Rge. 5 mi., (39-45-26N/74-05-36W)

Little Egg Inlet Outer Ltd. Wh. By. "LE" – Mo(A)W, Rge. 6 mi., RWSRST, (39-28-12N/74-16-09W)

Great Egg Harbor Inlet Outer Ltd. Wh. By. "GE" – Mo(A)W, Rge. 5 mi., RWSRST, (39-16-14N/74-31-56W)

- P. 191 **New Jersey, Delaware And Maryland**

Miah Maull Shoal Lt., Del. Bay main ch. – Oc. W. ev. 4 s., R. Sect. 137.5°-333°, Horn 1 bl. ev. 10 s., (Mar. 15-Dec. 15). Ht. 59', Rge. W. 10 mi., R. 10 mi., Racon (M), (39-07-36N/75-12-31W)

Elbow of Cross Ledge Lt., Del. Bay main ch. – Iso. W. ev. 6 s., Horn 2 bl. ev. 20 s., (Mar. 15-Dec. 15), Ht. 61', Rge. 16 mi., (39-10-56N/75-16-06W)

Fenwick Is. Lt. – Iso. W. ev. 8 s., Ht. 83', ~~Rge. 8~~, (38-27-06N/75-03-18W)

Virginia

Chesapeake Bay Entr. Ltd. Wh. By. "CH" – Mo(A)W, Rge. 6 mi., Racon (C), RWSRST, (36-56-08N/75-57-27W)

- P. 193 **Chesapeake Bay**

~~Wolf Trap Lt., Ches. Ch. – Fl. W. ev. 15 s., Ht. 52', Rge. 14 mi., (37-23-26N/76-11-22W)~~

Cove Pt. Lt., Ches. Ch. – Fl. W. ev. 10 s., Ht. 45', Rge. 12 mi., ~~Obscured from 040°-440°~~, ltd. 24 hrs, (38-23-11N/76-22-54W)

- P. 195 **Florida**

Fowey Rocks Lt., Hawk Ch. – Fl. W. ev. 10 s., ~~2 R. Sect.~~, ~~W. Sectors 188°-359° and 022°-180°~~, ~~R. in intervening sectors~~, Ht. 110', Rge. W. 7 mi., R. 10 mi. Racon (O), (25-35-26N/80-05-48W)

- P. 197 ~~Alligator Reef Lt., outer line of reefs – Fl(4) W. ev. 60 s., 2 R. sectors 223°-249° and~~

~~047° 068°, Ht. 136', Rge. W. 16 mi., R. 13 mi., Racon (G), (24-51-06N/80-37-08W)~~
 – Abandoned
 Alligator Reef Lt., – Fl(4) W. ev. 60 s., Ht. 16', Rge. 7 mi., (24-51-05N/80-37-04W)
 American Shoal Lt., outer line of reefs – Fl(3) W. ev. 15 s., W. sectors 270° 067° and
 125° 242°, Obscured 90° 125°, R. in intervening sectors, Ht. 109', Rge. R. 10 mi.,
 Racon (Y), (24-31-30N/81-31-10W) – Abandoned
 American Shoal Lt. – Fl(4) W. ev. 60 s., Ht. 19', Rge. 7 mi., (24-31-32N/81-31-03W)

Reminder: Signal transition to MRASS (Marine Radio Activated Sound Signal) is ongoing. To use MRASS, tune your VHF marine radio to the specified channel # and key microphone 5 times consecutively to activate fog signal for a set duration, typically 45 – 60 minutes.

Atlantic Coast RACONS

P. 209 Racon Site	Signal	Lat. N.	Long. W
Valiant Rock Ltd. Wh. By. 11	– • • • (B)	41-13-46	72-03-60
Chesapeake Bay Ent. Ltd. Wh. By. "CB"	– • – (K)	36-48-60	75-45-36
Ches. Ch. Ltd. By. #62	– • – – (Y)	37-46-28	76-10-16
Miami Ltd. By. "M"	– – (M)	25-46-06	80-04-60
Fowey Rocks Lt.	(O)	25-35-26	80-09-48
Alligator Rf. Lt.	• (G)	24-51-06	80-37-08
American Shoal Lt.	• (Y)	24-31-30	81-31-10

Dial-A-Buoy

P. 211 Delete: 41001, E. HATTERAS, NC, 34.65N, 72.70W
 Delete: SMK1, SOMBRERO KEY, FL, 24.63N, 81.11W

Correction to Celestial Navigation: meridian transit calculation

P. 228 In paragraph 3, the formula for determining latitude is mistakenly printed as $90^\circ - Ho - Dec$. When the observer and the declination of the sun are both on the same side of the equator, as is the case in May in the northern hemisphere, the correct formula is $L = 90^\circ - Ho + Dec$.

Since the declination of the sun is north of the equator and the observer is sighting the sun, then the angular distance from the equator to the sun must be added to the angular distance from the observer to the sun ($90^\circ - Ho$) to get the angular distance from the equator to the observer which is latitude. That would place the observer in the example at latitude $73^\circ 15.0' N (90^\circ - 37^\circ 42.8' + 20^\circ 57.8')$.

Eldridge Tide and Pilot Book 2017 will be available in November 2016.

2016 HIGH WATER MIAMI HARBOR ENTRANCE, FL 25°45.8'N, 80°07.8'W

*Standard Time starts
Nov. 6 at 2 a.m.

		Daylight Saving Time				Standard Time											
DAY OF MONTH	DAY OF WEEK	OCTOBER				DAY OF MONTH	DAY OF WEEK	NOVEMBER				DAY OF MONTH	DAY OF WEEK	DECEMBER			
		a.m.	Ht.	p.m.	Ht.			a.m.	Ht.	p.m.	Ht.			a.m.	Ht.	p.m.	Ht.
1	S	9:34	3.1	9:47	3.0	T	10:22	3.0	10:28	2.8	T	9:38	2.7	9:43	2.5	1	
2	S	10:11	3.0	10:22	2.9	W	11:00	2.9	11:05	2.7	F	10:17	2.7	10:24	2.4	2	
3	M	10:48	3.0	10:57	2.8	T	11:39	2.8	11:45	2.6	S	10:58	2.6	11:06	2.4	3	
4	T	11:26	2.9	11:34	2.7	F	...	...	12:20	2.7	S	11:41	2.5	11:54	2.3	4
5	W	...	...	12:05	2.8	S	12:27	2.5	1:05	2.7	M	...	...	12:26	2.5	5
6	T	12:13	2.6	12:47	2.7	S	*1:16	2.5	* 12:55	2.6	T	12:48	2.3	1:17	2.4	6	
7	F	12:54	2.6	1:34	2.6	M	1:10	2.4	1:49	2.6	W	1:46	2.3	2:12	2.4	7	
8	S	1:42	2.5	2:27	2.6	T	2:12	2.5	2:47	2.6	T	2:50	2.4	3:10	2.5	8	
9	S	2:38	2.5	3:25	2.6	W	3:17	2.6	3:46	2.7	F	3:55	2.5	4:11	2.5	9	
10	M	3:41	2.5	4:25	2.6	T	4:21	2.7	4:43	2.8	S	4:58	2.7	5:10	2.6	10	
11	T	4:46	2.6	5:24	2.8	F	5:20	2.9	5:38	2.9	S	5:57	2.8	6:07	2.7	11	
12	W	5:48	2.8	6:18	2.9	S	6:16	3.1	6:30	3.1	M	6:52	3.0	7:02	2.8	12	
13	T	6:45	3.0	7:09	3.1	S	7:09	3.3	7:22	3.2	T	7:45	3.1	7:56	2.9	13	
14	F	7:38	3.2	7:58	3.2	M	8:01	3.4	8:13	3.2	W	8:37	3.1	8:48	2.9	14	
15	S	8:29	3.4	8:47	3.3	T	8:53	3.5	9:04	3.2	T	9:27	3.1	9:40	2.8	15	
16	S	9:20	3.5	9:35	3.4	W	9:44	3.4	9:56	3.1	F	10:16	3.0	10:32	2.7	16	
17	M	10:10	3.6	10:24	3.4	T	10:36	3.3	10:50	3.0	S	11:06	2.8	11:24	2.6	17	
18	T	11:01	3.5	11:15	3.3	F	11:29	3.1	11:46	2.9	S	11:55	2.7	...	...	18
19	W	11:54	3.4	...	...	S	...	...	12:23	3.0	M	12:18	2.4	12:46	2.5	19
20	T	12:08	3.2	12:49	3.3	S	12:45	2.7	1:20	2.8	T	1:13	2.3	1:37	2.3	20	
21	F	1:05	3.0	1:47	3.1	M	1:47	2.6	2:19	2.7	W	2:11	2.2	2:30	2.2	21	
22	S	2:07	2.9	2:49	3.0	T	2:50	2.5	3:17	2.6	T	3:10	2.1	3:23	2.1	22	
23	S	3:12	2.8	3:52	2.9	W	3:52	2.5	4:12	2.5	F	4:08	2.1	4:16	2.1	23	
24	M	4:19	2.8	4:54	2.8	T	4:49	2.5	5:02	2.5	S	5:01	2.2	5:06	2.1	24	
25	T	5:22	2.8	5:50	2.8	F	5:38	2.6	5:47	2.5	S	5:50	2.2	5:53	2.1	25	
26	W	6:19	2.8	6:40	2.8	S	6:23	2.7	6:29	2.5	M	6:34	2.3	6:38	2.2	26	
27	T	7:08	2.9	7:24	2.9	S	7:03	2.7	7:09	2.6	T	7:16	2.4	7:20	2.2	27	
28	F	7:51	3.0	8:03	2.9	M	7:42	2.7	7:47	2.6	W	7:57	2.4	8:02	2.3	28	
29	S	8:31	3.0	8:40	2.9	T	8:20	2.8	8:25	2.6	T	8:37	2.5	8:43	2.3	29	
30	S	9:08	3.0	9:16	2.9	W	8:59	2.8	9:04	2.5	F	9:16	2.5	9:24	2.3	30	
31	M	9:45	3.0	9:52	2.8					S	9:56	2.5	10:05	2.3	31		

Dates when Ht. of **Low Water** is below Mean Low with Ht. of lowest given for each period and Date of lowest in ():

17th-18th:-0.2'

13th-17th:-0.4' (15th-16th)

10th:-0.3'
12th-17th:-0.6' (13th-15th)
29th-31st:-0.2'

Average Rise and Fall 2.5 ft.

When a high tide exceeds avg. ht., the following low tide will be lower than avg.