

01409125 BARNEGAT BAY AT BARNEGAT LIGHT, NJ

BARNEGAT BAY

LOCATION.--Lat 39°45'40", long 74°06'29" referenced to North American Datum of 1983, Barnegat Light Borough, Ocean County, NJ, Hydrologic Unit 02040301, on bulkhead at U.S. Coast Guard Station in Barnegat Light, 0.5 mi southwest of Barnegat Inlet, and 4.4 mi east of Pebble Beach in Barnegat Township.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Annual maximum tide, water years 1965-1980. Unpublished fragmentary gage-height record, September 1997 to October 2000. Continuous-record tide gage, November 2000 to current year.

GAGE.--Tide level, water temperature, precipitation, air temperature, air pressure, and wind speed and direction recorder and tidal crest-stage gage. Datum of gage is at 0.00 ft NAVD of 1988. To determine approximate elevation in NGVD of 1929, add 1.26 ft.

REMARKS.--Missing gage-height record on short portions of days. Summaries for months with short periods of missing gage-height record have been estimated with little or no loss of accuracy. Some periods cannot be estimated and are noted by dashed (---) lines. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 4.90 ft, Aug 9, 1976, from tidal crest-stage gage; minimum elevation, -4.25 ft, Mar 9, 2005, although a lower tide likely occurred during period of missing record on Feb 16, 2007.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation recorded, 4.93 ft (adjusted to NAVD of 1988), Dec 11, 1992, from mark on discontinued tidal crest-stage gage.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 3.84 ft, Aug 28; minimum elevation, -2.58 ft, Feb 20.

Statistics of Tide Elevations, in feet
Water Year October 2010 to September 2011
[e, estimated]

Month	Mean High Tide	Mean Water Level	Mean Low Tide
October	1.57	0.40	-0.75
November	1.59	0.42	-0.74
December	1.38	0.23	-0.98
CALENDAR YEAR 2010	1.52	0.35	-0.81
January	1.17	-0.01	-1.23
February	1.07	-0.18	-1.43
March	1.23	0.05	-1.14
April	1.33	0.14	-1.01
May	1.62	0.49	-0.62
June	1.65	0.50	-0.63
July	1.59	0.40	-0.75
August	1.70	0.51	-0.66
September	1.76	0.60	-0.54
WATER YEAR 2011	1.47	0.30	-0.87

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	High-high	Mean	Low-low									
	October			November			December			January		
1	2.03	0.86	-0.17	1.38	0.02	-1.37	2.00	0.77	-0.51	1.45	-0.07	-1.39
2	1.62	0.48	-0.54	1.40	0.10	-1.20	1.83	0.29	-1.30	1.70	0.11	-1.43
3	2.36	0.94	-0.25	1.71	0.24	-1.40	2.00	0.47	-0.73	1.74	-0.11	-1.37
4	3.20	1.86	0.16	2.52	0.99	-1.20	2.20	0.44	-0.95	1.62	-0.24	-1.60
5	2.83	1.48	0.25	3.00	1.05	-0.27	2.24	0.50	-1.06	1.30	-0.33	-1.86
6	2.43	0.91	-0.46	2.27	0.45	-1.01	1.79	-0.06	-1.44	1.87	0.35	-1.21
7	2.31	0.60	-0.90	2.25	0.31	-1.22	1.29	-0.52	-2.05	2.26	0.82	-0.41
8	2.24	0.31	-1.30	1.88	0.11	-1.44	1.43	-0.34	-1.72	2.17	0.88	-0.03
9	2.18	0.37	-1.51	2.16	0.56	-0.93	0.99	-0.55	-1.84	0.96	-0.11	-1.50
10	2.54	0.69	-0.76	2.39	1.10	-0.29	1.08	-0.32	-1.60	0.43	-0.88	-2.17
11	2.05	0.44	-0.95	3.13	2.00	1.21	1.07	-0.15	-1.16	0.73	-0.20	-1.33
12	2.14	0.67	-0.55	2.77	1.88	0.99	1.79	0.65	-0.36	1.57	-0.39	-2.28
13	1.97	0.71	-0.24	2.02	1.16	0.22	1.92	0.78	-0.44	0.04	-1.00	-2.12
14	1.83	0.74	-0.24	1.55	0.79	0.01	1.22	0.05	-1.29	0.80	-0.30	-1.50
15	1.63	0.53	-1.25	1.57	0.87	-0.20	0.81	-0.39	-1.73	0.86	-0.33	-1.56
16	1.08	-0.24	-1.22	1.41	0.57	-0.31	0.66	-0.24	-1.20	0.88	-0.44	-1.84
17	1.43	0.33	-0.57	1.86	0.47	-0.15	1.36	0.09	-1.23	1.25	-0.22	-1.41
18	1.24	0.25	-0.87	0.45	-0.65	-1.79	1.28	0.05	-1.06	2.17	0.72	-0.26
19	1.42	0.31	-0.87	1.08	-0.17	-1.84	1.67	0.36	-1.10	2.16	0.55	-0.74
20	1.62	0.43	-0.81	1.36	-0.26	-1.36	2.14	0.70	-0.51	1.90	0.16	-1.40
21	1.76	0.50	-0.56	1.35	-0.16	-1.95	2.33	0.83	-0.67	2.19	0.27	-1.21
22	1.54	0.05	-1.09	1.90	0.27	-1.06	2.61	0.97	-0.34	1.65	-0.18	-2.04
23	0.75	-0.69	-2.11	1.85	0.24	-1.17	2.01	0.47	-0.97	1.25	---	-1.83
24	1.51	-0.09	-1.88	1.64	-0.10	-1.49	2.54	0.84	-0.75	1.17	---	-1.80
25	1.79	0.25	-0.95	1.84	0.14	-1.58	2.14	0.69	-0.59	1.14	-0.57	-1.98
26	1.78	0.21	-1.00	2.13	0.70	-0.51	2.29	1.13	-0.50	1.38	0.45	-1.16
27	1.68	0.20	-0.95	1.57	0.07	-1.27	2.96	0.40	-2.11	2.32	0.66	-0.91
28	1.49	0.10	-0.93	1.32	-0.12	-1.33	0.61	---	-2.54	1.29	0.05	-1.09
29	1.52	-0.01	-1.13	1.15	-0.11	-1.37	0.73	-0.50	-1.77	1.46	0.13	-1.12
30	1.20	-0.25	-1.54	1.36	0.19	-0.99	1.48	-0.02	-1.58	1.44	0.08	-0.88
31	0.89	-0.61	-1.91	---	---	---	1.18	-0.37	-1.85	1.28	-0.16	-1.40
Max	3.20	1.86	0.25	3.13	2.00	1.21	2.96	1.13	-0.34	2.32	0.88	-0.03
Min	0.75	-0.69	-2.11	0.45	-0.65	-1.95	0.61	-0.55	-2.54	0.04	-1.00	-2.28

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	February			March			April			May		
	High-high	Mean	Low-low									
1	1.65	0.25	-1.39	1.38	0.07	-1.10	2.14	0.98	-0.01	1.39	0.02	-1.20
2	2.18	0.58	-0.74	1.30	-0.12	-1.39	1.24	0.09	-1.12	1.56	0.15	-1.15
3	1.16	-0.18	-1.53	0.94	-0.37	-1.79	1.10	-0.35	-1.68	1.94	0.38	-0.84
4	1.45	-0.21	-1.55	1.09	-0.26	-1.64	1.81	0.12	-1.51	1.56	0.29	-0.94
5	1.41	-0.23	-1.88	1.28	-0.06	-1.39	1.56	0.16	-1.14	1.34	-0.06	-1.28
6	0.68	-0.62	-2.01	1.52	0.19	-1.06	1.07	-0.57	-2.06	1.57	-0.04	-1.22
7	1.32	-0.26	-1.57	1.03	0.06	-1.30	1.36	-0.13	-1.32	0.96	0.16	-0.88
8	1.46	-0.02	-1.46	1.12	-0.27	-1.48	0.67	-0.06	-1.16	1.62	0.24	-0.82
9	-0.24	-1.29	-2.46	1.82	0.21	-1.09	1.44	0.04	-0.98	1.71	0.39	-0.64
10	0.38	-0.71	-1.80	2.42	0.96	0.00	1.27	-0.03	-1.03	1.81	0.94	-0.07
11	0.65	-0.42	-1.36	1.55	0.99	-0.02	1.26	-0.01	-0.94	2.00	1.01	0.05
12	0.82	-0.60	-1.86	1.50	0.06	-1.00	0.97	-0.17	-1.15	2.25	1.15	0.02
13	0.37	-0.79	-1.77	0.98	-0.20	-1.35	1.76	0.61	-0.43	2.07	0.84	-0.49
14	0.72	-0.56	-2.06	0.71	-0.42	-1.43	1.57	0.39	-0.90	2.36	0.81	-0.68
15	0.63	-0.69	-2.11	0.91	-0.17	-1.24	1.64	0.14	-1.52	2.68	0.91	-0.60
16	1.25	-0.36	-1.94	1.32	0.05	-1.19	2.93	0.85	-1.16	2.78	0.94	-0.53
17	1.41	-0.17	-1.87	1.18	-0.16	-1.70	2.43	1.03	-0.55	2.96	1.04	-0.50
18	1.89	0.17	-1.53	1.56	-0.04	-1.67	2.24	0.28	-1.44	2.65	0.98	-0.53
19	1.65	-0.23	-1.94	1.72	-0.10	-1.88	2.22	0.19	-1.42	2.30	0.73	-0.61
20	1.85	-0.41	-2.58	1.81	-0.06	-1.84	2.13	0.32	-1.14	2.12	0.53	-0.68
21	2.45	0.57	-1.26	2.13	0.07	-1.78	1.30	0.08	-1.33	1.47	0.51	-0.63
22	1.72	0.40	-0.98	2.08	0.17	-1.38	1.58	-0.24	-1.58	1.92	0.59	-0.59
23	1.20	0.07	-1.21	1.92	0.64	-0.84	1.48	0.10	-1.10	1.99	0.73	-0.23
24	1.51	0.12	-0.92	2.60	1.02	-0.16	1.27	-0.15	-1.17	1.65	0.46	-0.53
25	1.74	0.32	-1.27	1.98	0.54	-0.55	1.10	-0.02	-1.08	1.39	0.42	-0.74
26	0.84	-0.48	-1.64	1.36	0.00	-1.08	1.22	0.12	-0.90	1.45	0.48	-0.64
27	1.37	0.12	-1.15	1.04	-0.28	-1.47	1.07	0.07	-0.98	1.27	0.35	-0.68
28	1.80	0.66	-0.24	0.57	-0.70	-1.87	1.13	0.22	-0.84	1.36	0.21	-0.88
29	---	---	---	0.75	-0.42	-1.54	1.32	0.21	-0.84	1.41	0.13	-1.01
30	---	---	---	0.84	-0.39	-1.62	1.32	0.07	-1.15	1.43	0.01	-1.17
31	---	---	---	1.75	0.40	-1.12	---	---	---	1.51	0.01	-1.21
Max	2.45	0.66	-0.24	2.60	1.02	0.00	2.93	1.03	-0.01	2.96	1.15	0.05
Min	-0.24	-1.29	-2.58	0.57	-0.70	-1.88	0.67	-0.57	-2.06	0.96	-0.06	-1.28

01409125 BARNEGAT BAY AT BARNEGAT LIGHT, NJ—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low
	June			July			August			September		
1	1.67	0.03	-1.24	2.05	0.40	-0.93	2.11	0.41	-1.07	2.14	0.47	-1.00
2	1.50	-0.02	-1.27	2.08	0.37	-1.01	2.10	0.48	-0.97	2.36	0.69	-0.79
3	1.63	-0.16	-1.50	2.12	0.45	-0.88	2.15	0.66	-0.81	2.04	0.54	-0.61
4	1.82	0.10	-1.15	2.05	0.49	-0.74	2.32	0.82	-0.53	1.74	0.34	-0.86
5	1.34	0.28	-0.93	1.70	0.43	-0.84	2.00	0.57	-0.73	1.63	0.33	-0.83
6	1.82	0.29	-0.91	1.91	0.40	-0.87	1.87	0.43	-0.84	1.85	0.54	-0.68
7	1.82	0.35	-0.86	1.72	0.31	-1.00	1.94	0.51	-0.81	1.86	0.81	-0.19
8	1.63	0.35	-0.92	1.89	0.45	-1.02	2.04	0.73	-0.53	2.00	0.86	-0.27
9	1.73	0.46	-0.95	1.99	0.60	-0.72	2.38	0.90	-0.33	1.96	0.82	-0.27
10	1.80	0.40	-0.97	1.92	0.48	-0.88	2.14	0.81	-0.43	1.93	0.76	-0.36
11	2.13	0.63	-0.82	1.96	0.38	-1.05	2.20	0.71	-0.53	2.07	0.93	-0.31
12	2.23	0.76	-0.69	2.19	0.44	-0.92	1.94	0.50	-0.79	1.94	0.75	-0.44
13	2.51	0.79	-0.63	2.19	0.47	-0.88	1.91	0.34	-0.98	1.79	0.59	-0.59
14	2.59	0.85	-0.56	2.44	0.67	-0.71	2.13	0.53	-0.88	1.84	0.56	-0.53
15	2.59	0.83	-0.61	2.23	0.66	-0.68	2.07	0.79	-0.42	1.75	0.50	-0.55
16	2.42	0.76	-0.71	1.89	0.46	-0.91	1.78	0.71	-0.37	1.55	0.35	-0.84
17	2.33	0.66	-0.69	1.62	0.16	-1.13	1.40	0.37	-0.75	1.34	0.28	-0.77
18	2.13	0.67	-0.53	1.30	-0.05	-1.29	1.36	0.26	-0.83	1.80	0.64	-0.47
19	2.00	0.67	-0.51	1.60	0.17	-1.12	1.46	0.30	-0.75	1.78	0.88	0.10
20	1.47	0.53	-0.52	1.46	0.42	-0.59	1.39	0.33	-0.68	1.54	0.55	-0.31
21	1.73	0.40	-0.69	1.42	0.22	-0.69	1.29	0.27	-0.71	1.32	0.34	-0.59
22	1.43	0.47	-0.64	1.02	-0.02	-1.06	1.36	0.27	-0.60	1.53	0.39	-0.62
23	1.51	0.64	-0.44	1.26	0.16	-0.98	1.39	0.20	-0.72	1.65	0.38	-0.82
24	1.72	0.84	-0.10	1.38	0.29	-0.76	1.30	0.09	-0.98	1.70	0.39	-0.84
25	1.82	0.92	-0.06	1.59	0.49	-0.52	1.53	0.12	-0.97	1.92	0.36	-1.10
26	1.73	0.71	-0.27	1.82	0.65	-0.49	1.72	0.14	-1.15	2.15	0.40	-1.01
27	1.62	0.47	-0.61	1.83	0.56	-0.60	2.69	0.69	-0.99	2.38	0.73	-1.07
28	1.87	0.50	-0.66	1.93	0.48	-0.75	3.84	1.66	0.36	2.76	0.96	-0.86
29	1.97	0.54	-0.59	2.22	0.52	-0.82	2.23	0.29	-1.29	3.00	1.02	-0.40
30	1.96	0.40	-0.92	2.13	0.50	-0.98	2.00	0.40	-1.08	2.58	0.77	-0.70
31	---	---	---	2.18	0.44	-1.03	2.06	0.38	-1.12	---	---	---
Max	2.59	0.92	-0.06	2.44	0.67	-0.49	3.84	1.66	0.36	3.00	1.02	0.10
Min	1.34	-0.16	-1.50	1.02	-0.05	-1.29	1.29	0.09	-1.29	1.32	0.28	-1.10

01409125 BARNEGAT BAY AT BARNEGAT LIGHT, NJ—Continued

