

Water-Data Report 2010

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 Unpublished fragmentary gage-height record, September 1997 to October 2000.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. To determine approximate elevation in Mean Lower Low Water datum, add 1.33 ft (revised to Tidal Epoch 1983-2001).

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, 3.78 ft, Mar 13; minimum elevation, -3.86 ft, Dec 11.

Statistics of Tide Elevations, in feet
Water Year October 2009 to September 2010

Month	Mean High Tide	Mean Water Level	Mean Low Tide
October	1.79	0.64	-0.48
November	1.75	0.62	-0.50
December	1.33	0.11	-1.09
CALENDAR YEAR 2009	1.48	0.28	-0.90
January	1.34	0.11	-1.10
February	1.40	0.27	-0.84
March	1.84	0.72	-0.37
April	1.48	0.31	-0.82
May	1.36	0.16	-1.01
June	1.50	0.32	-0.83
July	1.46	0.25	-0.94
August	1.63	0.47	-0.68
September	1.63	0.47	-0.67
WATER YEAR 2010	1.55	0.37	-0.78

01409125 BARNEGAT BAY AT BARNEGAT LIGHT, NJ—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
[e, estimated]

Day	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low
	October			November			December			January		
1	1.52	0.21	-0.92	1.89	0.36	-0.88	1.95	0.19	-1.14	2.41	0.58	-1.21
2	1.76	0.29	-0.99	2.52	1.12	-0.80	1.94	0.19	-1.38	2.68	0.66	-0.79
3	1.78	0.54	-0.77	2.86	1.15	-0.02	2.50	0.40	-1.00	1.24	-0.56	-2.47
4	1.92	0.47	-0.77	2.30	0.55	-0.78	2.01	0.03	-1.68	1.86	-0.09	-2.02
5	1.80	0.20	-1.12	2.51	0.62	-0.85	2.44	0.64	-1.31	1.70	0.13	-1.23
6	1.82	0.15	-1.32	2.27	0.47	-1.00	2.06	0.46	-0.96	1.24	-0.03	-1.36
7	1.98	0.12	-1.24	2.20	0.47	-0.67	1.68	0.17	-1.04	1.29	-0.23	-1.50
8	1.36	-0.36	-1.96	1.53	-0.05	-1.22	1.18	-0.21	-1.48	1.25	-0.16	-1.46
9	1.96	0.30	-1.01	1.46	-0.07	-1.25	2.48	1.43	0.58	1.17	-0.17	-1.38
10	1.75	0.33	-0.73	1.25	-0.14	-1.30	2.24	0.22	-1.74	1.28	-0.12	-1.39
11	1.63	0.23	-0.98	2.04	0.72	-0.48	0.44	-1.71	-3.86	1.16	-0.25	-1.55
12	1.48	0.03	-1.19	3.10	1.84	0.76	-0.08	-1.69	-3.42	1.16	-0.41	-1.46
13	1.60	0.17	-1.21	3.64	2.36	1.34	1.01	-0.43	-1.94	1.10	-0.32	-1.78
14	1.85	0.43	-0.94	3.54	1.92	0.88	1.54	0.12	-1.13	1.48	-0.02	-1.39
15	2.82	1.01	-0.72	2.64	0.98	-0.18	2.16	0.48	-0.75	1.40	-0.18	-1.34
16	3.35	2.05	0.65	2.07	0.45	-0.84	1.59	-0.07	-1.23	1.18	-0.38	-1.72
17	3.71	2.05	0.75	2.18	0.47	-0.93	1.27	-0.48	-1.77	1.98	0.35	-1.47
18	3.77	2.04	0.60	2.12	0.47	-0.86	1.71	0.05	-1.59	2.44	1.14	0.14
19	2.92	1.31	0.09	1.90	0.33	-0.86	2.41	1.13	-0.77	2.28	1.14	0.17
20	2.06	0.55	-0.72	1.84	0.36	-0.66	2.66	1.40	0.33	1.48	0.54	-0.51
21	1.94	0.40	-0.76	1.42	0.12	-0.88	1.56	0.23	-0.93	1.49	0.37	-0.55
22	1.80	0.32	-0.70	1.55	0.47	-0.53	0.88	-0.37	-1.37	1.51	0.66	-0.20
23	1.81	0.54	-0.83	1.98	1.04	0.27	0.91	-0.22	-1.27	1.91	0.83	-0.18
24	2.10	0.99	0.25	1.80	0.95	-0.02	0.90	0.04	-0.82	1.57	0.34	-0.66
25	1.20	0.27	-0.72	1.58	0.77	-0.03	1.55	0.69	-0.20	1.79	0.82	0.07
26	1.10	0.18	-0.70	1.56	0.82	-0.03	2.27	1.46	0.67	1.99	0.38	-1.33
27	1.67	0.59	-0.26	1.98	0.91	-0.65	2.63	1.06	-0.55	1.44	-0.08	-1.55
28	2.08	1.28	0.52	0.73	-0.86	-2.35	1.62	0.18	-1.44	1.72	0.02	-1.09
29	2.50	1.57	0.42	1.03	-0.20	-1.50	0.99	-1.13	-3.21	1.18	-0.81	-2.46
30	2.00	0.98	0.00	1.65	0.16	-1.20	0.88	-0.83	-2.57	1.30	-0.86	-3.32
31	1.96	0.71	-0.38	---	---	---	1.96	0.07	-2.16	2.23	0.17	-1.98
Max	3.77	2.05	0.75	3.64	2.36	1.34	2.66	1.46	0.67	2.68	1.14	0.17
Min	1.10	-0.36	-1.96	0.73	-0.86	-2.35	-0.08	-1.71	-3.86	1.10	-0.86	-3.32

01409125 BARNEGAT BAY AT BARNEGAT LIGHT, NJ—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
[e, estimated]

Day	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low
	February			March			April			May		
1	1.59	-0.34	-1.96	2.14	0.33	-1.44	2.26	0.65	-0.71	2.01	0.32	-1.00
2	1.52	-0.31	-2.13	2.37	0.72	-0.85	1.88	0.52	-0.73	1.70	0.35	-0.69
3	1.64	0.12	-1.20	2.92	1.27	-0.48	1.18	0.27	-0.94	0.92	0.18	-0.74
4	0.98	-0.21	-1.56	2.43	1.25	0.07	1.54	0.10	-0.89	1.38	0.12	-0.88
5	1.18	-0.22	-1.30	2.26	1.08	0.11	1.18	0.03	-0.87	1.30	0.03	-1.01
6	2.15	1.16	0.21	1.46	0.72	-0.28	1.24	0.19	-0.61	1.15	0.13	-0.76
7	2.13	0.71	-0.68	1.46	0.16	-0.76	1.28	0.26	-0.58	0.88	-0.08	-1.14
8	1.12	-0.38	-1.87	1.24	0.14	-0.73	1.22	0.29	-0.62	1.25	0.21	-0.82
9	0.55	-0.51	-1.66	1.18	0.06	-0.78	1.55	0.55	-0.57	0.56	-0.51	-1.75
10	2.21	1.29	0.65	1.19	0.14	-0.78	0.97	-0.09	-1.22	0.99	-0.43	-1.81
11	2.33	1.17	0.20	1.20	0.19	-0.78	0.77	-0.41	-1.73	1.33	-0.18	-1.56
12	2.02	0.78	-0.23	1.62	0.60	-0.55	1.17	-0.18	-1.49	1.76	0.13	-1.26
13	1.90	0.50	-0.52	3.78	2.09	0.82	1.31	-0.10	-1.45	1.51	-0.03	-1.57
14	1.19	-0.07	-1.20	3.14	2.07	1.15	1.26	-0.26	-1.64	1.87	-0.15	-1.59
15	0.96	-0.36	-1.67	2.56	1.52	0.45	1.62	-0.26	-1.68	1.78	0.00	-1.40
16	1.66	0.19	-1.15	2.41	1.39	0.33	2.20	0.47	-1.01	1.85	0.01	-1.42
17	1.18	-0.04	-1.20	1.77	0.81	-0.39	1.94	0.70	-0.40	1.74	-0.04	-1.42
18	1.00	-0.20	-1.45	1.56	0.28	-0.83	1.67	0.43	-0.72	1.70	0.61	-1.03
19	0.61	-0.59	-1.95	1.69	0.30	-0.79	1.17	0.23	-0.84	2.46	0.64	-0.62
20	0.92	-0.36	-1.45	1.46	0.24	-0.89	1.58	0.11	-0.90	1.69	0.30	-0.81
21	0.30	-0.44	-1.52	0.87	0.08	-0.97	1.65	0.26	-0.78	1.47	e0.1	e-1.3
22	0.99	0.02	-0.86	1.50	0.31	-0.57	1.70	0.44	-0.62	1.54	0.27	-1.10
23	1.82	1.01	0.22	1.83	0.63	-0.23	1.66	0.33	-0.92	1.76	0.33	-1.07
24	2.35	1.17	-0.04	1.53	0.02	-1.16	1.64	0.35	-1.01	1.66	0.17	-1.32
25	2.25	1.11	-0.36	1.41	0.15	-1.02	2.25	0.76	-0.66	1.88	0.09	-1.45
26	2.07	0.67	-0.54	1.87	0.60	-0.84	2.94	1.28	-0.22	2.08	0.26	-1.22
27	2.36	0.84	-0.45	2.32	0.96	-0.43	2.76	1.31	-0.01	2.50	0.71	-0.80
28	2.49	0.85	-0.61	2.36	0.79	-0.72	2.16	0.66	-0.97	2.10	0.48	-0.90
29	---	---	---	2.76	1.12	-0.47	2.02	0.18	-1.38	2.01	0.38	-0.88
30	---	---	---	2.92	1.30	-0.16	1.93	0.22	-1.18	1.81	0.30	-0.83
31	---	---	---	2.44	1.00	-0.43	---	---	---	1.79	0.27	-0.88
Max	2.49	1.29	0.65	3.78	2.09	1.15	2.94	1.31	-0.01	2.50	0.71	-0.62
Min	0.30	-0.59	-2.13	0.87	0.02	-1.44	0.77	-0.41	-1.73	0.56	-0.51	-1.81

01409125 BARNEGAT BAY AT BARNEGAT LIGHT, NJ—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
[e, estimated]

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	1.10	0.29	-0.73	0.98	-0.02	-1.10	1.32	0.19	-0.96	1.47	0.28	-0.71
2	1.47	0.28	-0.76	1.08	-0.11	-1.31	1.24	0.15	-0.92	1.44	0.31	-0.62
3	1.65	0.51	-0.40	1.02	-0.04	-1.27	1.23	0.04	-1.03	e2.5	e0.8	-0.44
4	1.55	0.42	-0.51	1.08	-0.02	-1.26	1.29	0.03	-1.12	1.81	0.74	-0.12
5	1.38	0.46	-0.48	1.23	0.06	-1.17	1.57	0.19	-0.92	1.62	0.06	-1.28
6	1.37	0.44	-0.58	1.36	0.20	-0.99	1.80	0.25	-1.02	2.21	0.33	-1.38
7	1.35	0.25	-0.82	1.57	0.23	-0.97	2.02	0.35	-1.05	2.09	0.26	-1.34
8	1.34	0.14	-1.04	1.76	0.26	-1.03	2.12	0.33	-1.24	2.26	0.33	-1.34
9	1.63	0.19	-1.18	2.01	0.30	-1.08	2.21	0.31	-1.36	2.12	0.48	-1.21
10	---	---	---	2.23	0.40	-1.00	2.38	0.38	-1.22	2.30	0.51	-1.12
11	2.13	---	-0.92	2.36	0.47	-1.05	2.51	0.54	-1.06	2.19	0.55	-0.98
12	2.12	0.32	-1.25	2.40	0.43	-1.15	2.58	0.79	-0.86	2.34	0.68	-0.78
13	2.44	0.48	-0.88	2.40	0.48	-1.09	2.57	0.95	-0.55	2.21	0.75	-0.43
14	2.36	0.55	-0.85	2.27	0.53	-0.91	2.15	0.69	-0.64	1.99	0.65	-0.43
15	2.02	0.44	-1.00	2.11	0.63	-0.90	1.95	0.50	-0.84	1.52	0.39	-0.71
16	1.42	0.21	-1.14	2.23	0.54	-0.87	1.79	0.44	-0.73	1.60	0.43	-0.60
17	1.92	0.32	-1.08	1.92	0.45	-0.93	1.60	0.29	-0.91	1.34	0.24	-0.77
18	1.70	0.31	-1.13	1.73	0.36	-1.04	1.54	0.25	-0.91	1.51	0.44	-0.78
19	1.57	0.21	-1.29	1.90	0.44	-0.92	1.69	0.35	-0.80	1.62	0.42	-0.65
20	1.80	0.31	-1.07	1.66	0.37	-0.88	1.78	0.40	-0.73	1.98	0.65	-0.58
21	1.67	0.24	-1.21	1.81	0.35	-0.91	1.85	0.51	-0.58	1.83	0.71	-0.36
22	1.83	0.30	-1.10	1.60	0.16	-1.11	2.14	0.63	-0.56	1.27	0.13	-1.06
23	1.90	0.31	-1.05	1.79	0.17	-1.11	2.74	1.24	-0.07	1.66	0.18	-1.32
24	1.93	0.30	-0.97	1.82	0.25	-0.93	2.58	1.49	0.44	1.63	0.38	-0.79
25	1.96	0.20	-1.17	1.93	0.33	-0.84	2.18	1.16	0.10	1.51	0.22	-0.90
26	1.97	0.24	-1.03	1.62	0.17	-1.06	1.74	0.68	-0.36	1.89	0.43	-0.97
27	2.07	0.37	-0.87	1.50	-0.03	-1.28	e1.6	e0.4	-0.74	2.20	0.87	-0.14
28	1.89	0.39	-0.78	1.48	0.03	-1.21	e1.6	e0.3	-0.84	2.02	0.75	-0.22
29	1.60	0.29	-0.82	1.40	0.00	-1.10	1.31	0.18	-0.97	1.74	0.52	-0.40
30	1.36	0.18	-0.95	1.30	0.16	-1.03	1.37	0.19	-0.85	1.85	0.68	-0.37
31	---	---	---	1.38	0.18	-0.94	1.44	0.26	-0.82	---	---	---
Max	2.44	0.55	-0.40	2.40	0.63	-0.84	2.74	1.49	0.44	e2.5	0.87	-0.12
Min	1.10	0.14	-1.29	0.98	-0.11	-1.31	1.23	0.03	-1.36	1.27	0.06	-1.38

01409125 BARNEGAT BAY AT BARNEGAT LIGHT, NJ—Continued