

Water-Data Report 2007

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 Unpublished fragmentary gage-height record, September 1997 to October 2000.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.--Water-stage, air temperature, water temperature, wind speed/direction, barometric pressure, and precipitation recorder and 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 Feb 8-9, Feb 16, and portions of other 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 stage and weather telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 3.68 ft, Oct 25, 2005; minimum elevation recorded, -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 (from mark on discontinued tidal crest-stage gage, adjusted to NAVD of 1988), Dec 11, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 3.40 ft, Oct 7; minimum elevation recorded, -3.92 ft, Feb 5, although a lower tide likely occurred during period of missing record on Feb 16.

Statistics of Tide Elevations, in feet
Water Year October 2006 to September 2007

Month	Mean High Tide	Mean Water Level	Mean Low Tide
October	1.50	0.27	-1.00
November	1.63	0.42	-0.80
December	0.97	-0.35	-1.68
CALENDAR YEAR 2006	1.36	0.08	-1.23
January	0.96	-0.32	-1.62
February	---	---	---
March	0.76	-0.51	-1.79
April	1.32	0.13	-1.04
May	1.10	-0.13	-1.34
June	1.45	0.26	-0.89
July	1.34	0.13	-1.05
August	1.51	0.31	-0.87
September	1.36	0.13	-1.07
WATER YEAR 2007	1.24	0.02	-1.22

e Estimated.

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
[e, estimated]

Day	High-high	Low-low	High-high	Low-low	High-high	Low-low	High-high	Low-low	High-high	Low-low	High-high	Low-low
	October		November		December		January		February		March	
1	1.74	-0.61	1.67	-1.38	1.44	-2.00	2.12	-1.08	1.56	-1.75	1.35	-1.34
2	1.51	-1.06	1.97	-1.32	0.96	-2.68	1.65	-1.71	2.23	-1.50	2.20	-1.02
3	1.56	-1.61	1.87	-1.84	1.63	-2.11	1.31	-2.41	1.21	-2.06	1.87	-0.76
4	2.01	-1.48	2.00	-1.67	2.04	-1.85	1.34	-2.48	0.08	-3.19	1.22	-1.60
5	2.30	-1.53	2.08	-1.93	1.98	-1.80	1.76	-1.87	-0.30	-3.92	0.71	-2.42
6	3.11	-1.26	2.13	-1.85	2.12	-1.80	1.60	-1.63	-0.21	---	-0.16	-3.57
7	3.40	-0.25	2.14	-1.90	1.82	-1.70	0.97	-1.87	0.07	---	0.76	-2.86
8	2.61	-1.13	2.81	-1.10	0.62	-2.66	1.68	-0.85	---	---	0.30	-2.30
9	2.32	-1.36	2.46	-0.20	0.43	-2.84	0.27	-1.88	---	---	0.53	-1.98
10	2.35	-1.28	1.78	-0.82	0.10	-2.82	0.34	-2.00	0.10	---	0.52	-1.81
11	2.72	-0.51	1.67	-0.90	0.61	-2.19	0.20	-1.78	0.43	---	-0.21	-1.64
12	2.54	0.08	1.56	-0.37	0.77	-1.14	0.39	-2.34	---	-2.32	0.43	-1.61
13	1.96	-0.48	2.16	0.38	0.96	-1.15	0.29	-1.68	0.35	-1.89	0.49	-1.51
14	1.76	-0.70	1.92	-0.26	0.73	-1.34	0.97	-1.02	2.11	-1.55	0.72	-1.60
15	1.20	-0.93	1.45	-0.64	0.96	-0.89	1.39	-1.10	0.62	---	0.77	-1.96
16	1.26	-0.86	1.58	-0.45	1.05	-1.52	1.28	-1.72	---	---	2.26	-0.57
17	1.69	-0.65	1.85	-1.26	1.28	-1.75	1.21	-1.87	0.47	---	2.54	-0.63
18	1.63	-0.43	1.50	-0.86	1.22	-1.60	1.44	-1.96	1.57	---	1.26	-2.31
19	1.69	-0.72	1.85	-1.06	1.56	-1.63	2.04	-1.72	0.99	---	1.14	-3.10
20	2.03	-0.55	1.80	-1.11	1.65	-1.62	1.00	-2.96	1.44	-2.83	1.07	-2.78
21	1.02	-1.90	1.62	-1.44	1.10	-2.52	1.27	-3.37	1.63	-1.91	1.37	-2.84
22	1.38	-1.81	2.42	-0.74	1.56	-2.50	1.76	-1.77	1.82	-1.19	0.82	-2.72
23	1.72	-1.02	3.15	0.46	2.25	-1.10	1.69	-1.33	1.13	-1.53	0.25	-2.43
24	1.86	-1.05	2.38	-0.30	1.43	-1.87	1.51	-1.20	1.27	-1.49	0.93	-2.15
25	1.52	-1.30	2.18	-0.34	2.15	-2.02	1.69	-1.15	1.22	-1.12	1.33	-1.47
26	1.54	-1.27	1.58	-1.05	1.83	-0.84	1.44	-2.32	1.82	-0.52	0.77	-1.65
27	1.80	-0.81	1.27	-1.41	1.23	-1.75	1.03	-1.29	1.58	-0.92	0.93	-1.45
28	2.65	-0.15	1.37	-1.02	0.89	-2.11	1.50	-1.20	1.35	-1.39	0.88	-1.54
29	0.64	-2.98	1.49	-1.20	0.91	-1.76	1.67	-1.37	---	---	0.61	-1.85
30	0.13	-3.36	1.29	-1.62	1.34	-2.00	1.29	-1.45	---	---	0.95	-1.64
31	1.27	-1.72	---	---	1.29	-1.57	1.31	-1.79	---	---	1.01	-1.69
Max	3.40	0.08	3.15	0.46	2.25	-0.84	2.12	-0.85	2.23	---	2.54	-0.57
Min	0.13	-3.36	1.27	-1.93	0.10	-2.84	0.20	-3.37	---	-3.92	-0.21	-3.57

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
[*e*, estimated]

Day	High-high	Low-low	High-high	Low-low	High-high	Low-low	High-high	Low-low	High-high	Low-low	High-high	Low-low
	April		May		June		July		August		September	
1	1.34	-1.59	1.53	-1.26	1.45	-1.33	1.82	-1.17	1.94	-1.12	2.15	-1.04
2	1.57	-1.24	1.61	-1.15	1.56	-1.47	1.60	-1.28	1.69	-1.17	1.91	-1.05
3	1.80	-1.14	1.21	-1.46	2.43	-1.21	1.65	-1.41	1.53	-1.33	1.64	-1.11
4	2.14	-0.68	1.16	-1.61	2.33	-0.12	1.45	-1.35	1.51	-1.34	1.40	-1.31
5	1.33	-0.98	1.40	-1.59	1.97	-0.39	0.92	-1.39	1.70	-1.29	1.55	-1.01
6	1.18	-1.46	1.35	-0.98	1.13	-0.61	1.44	-1.42	1.69	-0.98	1.46	-1.07
7	1.25	-1.00	1.04	-1.12	1.56	-1.01	1.34	-1.51	1.72	-1.01	1.38	-1.11
8	0.18	-1.73	0.25	-1.34	1.56	-1.03	1.55	-1.35	1.82	-0.89	1.42	-1.49
9	-0.75	-2.40	0.96	-1.45	1.81	-0.92	1.73	-1.26	2.07	-0.91	1.78	-1.31
10	0.31	-1.88	0.99	-1.35	1.84	-0.94	1.86	-1.30	2.49	-0.83	1.98	-0.99
11	0.82	-1.51	1.20	-1.22	1.97	-1.19	2.20	-1.16	2.17	-0.51	1.90	-0.74
12	1.10	-0.68	1.53	-1.27	2.30	-1.04	2.09	-1.14	1.99	-1.00	1.29	-1.18
13	1.34	-1.98	1.64	-1.26	2.96	-0.73	2.06	-1.39	2.02	-0.99	1.34	-1.28
14	1.06	-2.16	1.65	-1.73	2.63	-0.55	2.07	-1.37	2.01	-0.80	1.51	-1.16
15	3.24	-1.90	1.53	-2.20	2.53	-0.64	2.02	-1.29	e1.7	-0.93	1.68	-0.75
16	3.20	-0.21	1.87	-2.22	2.23	-1.04	1.78	-1.11	1.42	-0.92	1.30	-1.23
17	3.02	-0.34	2.42	-1.64	2.04	-0.98	1.69	-1.12	1.23	-0.95	1.28	-1.05
18	3.18	-0.22	2.46	-0.98	1.77	-1.10	1.65	-1.01	1.26	-1.13	1.32	-0.54
19	2.77	-0.16	1.85	-1.25	1.60	-1.09	1.48	-0.78	1.02	-1.13	1.05	-0.73
20	2.19	-0.70	1.61	-1.25	1.24	-0.84	1.16	-0.76	1.32	-0.74	0.97	-0.96
21	1.60	-1.20	0.90	-1.28	1.51	-0.93	1.14	-1.01	1.74	-0.36	1.24	-0.87
22	0.84	-1.11	1.39	-1.35	1.25	-1.03	1.14	-0.92	1.56	-0.37	1.52	-0.81
23	1.49	-1.34	1.00	-1.51	1.17	-1.00	1.47	-0.46	1.37	-0.60	1.43	-1.11
24	0.77	-1.59	0.75	-1.63	1.21	-1.06	1.12	-1.01	1.49	-0.78	1.72	-1.37
25	0.80	-1.38	0.60	-1.77	1.11	-1.21	1.27	-1.07	1.71	-0.95	1.77	-1.74
26	1.10	-1.29	0.99	-1.48	1.10	-1.35	1.40	-1.05	1.93	-1.06	1.74	-1.67
27	1.12	-1.06	1.18	-1.41	1.28	-1.47	1.75	-1.16	2.00	-1.15	2.05	-1.66
28	1.39	-0.87	1.25	-1.33	1.41	-1.46	1.99	-1.00	2.12	-1.17	2.35	-1.29
29	1.32	-0.97	1.28	-1.45	1.74	-1.29	2.00	-1.09	2.08	-1.17	2.13	-1.47
30	1.62	-0.95	1.41	-1.48	1.74	-1.22	2.07	-1.12	2.07	-1.18	2.24	-1.41
31	---	---	1.53	-1.46	---	---	2.09	-1.06	2.18	-0.98	---	---
Max	3.24	-0.16	2.46	-0.98	2.96	-0.12	2.20	-0.46	2.49	-0.36	2.35	-0.54
Min	-0.75	-2.40	0.25	-2.22	1.10	-1.47	0.92	-1.51	1.02	-1.34	0.97	-1.74

01409125 BARNEGAT BAY AT BARNEGAT LIGHT, NJ—Continued