

Water-Data Report 2006

01408168 BARNEGAT BAY AT MANTOLOKING, NJ

BARNEGAT BAY

LOCATION.--Lat 40°02'24", long 74°03'08" referenced to North American Datum of 1983, Mantoloking Borough, Ocean County, NJ, Hydrologic Unit 02040301, on wooden bulkhead at west end of Old Bridge Avenue in Mantoloking, 2.1 mi south of Bay Head, and 4.7 mi north of Lavallette.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Annual maximum tide, water years 1980-85, 1992-93. Continuous-record tide gage, June 1993 to July 2004, November 2004 to current year.

GAGE.--Water-stage recorder. Datum of gage is 0.00 ft NAVD of 1988. Data published for water years 1979-2000 was referenced to NGVD of 1929. Data for 1993-2000 was collected 1100 ft south of present gage at foot of Downer Avenue. To determine approximate elevations to NAVD of 1929, add 1.12 ft. To determine approximate elevations to Mean Lower Low Water datum, add 0.08 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 stage telemetry at station. Online annual tidal peaks have been adjusted to NAVD of 1988.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 3.81 ft (from crest-stage gage, adjusted to NAVD of 1988), Dec 11, 1992; minimum elevation recorded, -1.55 ft (measured at 1993-2000 location, adjusted to NAVD of 1988), Oct 8, 1996.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 3.4 ft (from high-water mark at the northwest corner of the intersection of Bay Avenue and Downer Avenue in Mantoloking, adjusted to NAVD of 1988), Mar 6 or 7, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 2.64 ft, Oct 25 and Sep 2; minimum elevation recorded, estimated at -1.4 ft, Jan 22.

Statistics of Tide Elevations, in feet
Water Year October 2005 to September 2006

Month	Mean High Tide	Mean Water Level	Mean Low Tide
October	0.63	0.34	0.04
November	0.33	0.07	-0.24
December	0.04	-0.22	-0.50
CALENDAR YEAR 2005	e0.6	---	---
January	e0.3	e0.0	e-0.4
February	e0.2	e-0.1	e-0.4
March	0.10	-0.16	-0.45
April	0.38	0.10	-0.18
May	0.63	0.34	0.04
June	0.58	0.32	0.06
July	0.51	0.25	-0.03
August	0.63	0.35	0.05
September	0.84	0.54	0.22
WATER YEAR 2006	0.43	0.15	-0.14

e Estimated.

01408168 BARNEGAT BAY AT MANTOLOKING, NJ—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
[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	0.37	-0.21	0.75	-0.16	0.77	-0.34	0.76	-0.23	1.56	0.63	0.14	-0.57
2	0.13	-0.26	0.28	-0.18	0.99	0.19	0.75	-0.20	1.87	0.86	0.29	-0.30
3	0.16	-0.46	0.86	-0.30	-0.39	-0.93	0.38	-0.27	1.94	0.62	0.39	-0.66
4	0.14	-0.39	0.42	-0.56	0.22	-0.90	1.67	0.55	1.25	0.37	-0.23	-1.24
5	0.20	-0.39	0.78	-0.32	0.15	-0.55	1.74	0.51	1.62	0.32	-0.39	-0.87
6	0.29	-0.36	1.13	-0.10	0.43	-0.48	1.02	0.03	0.57	---	-0.04	-0.72
7	0.73	-0.11	0.62	-0.12	-0.11	-0.70	0.59	-0.08	-0.86	-1.20	0.09	-0.53
8	1.64	0.80	0.22	-0.36	-0.67	-1.32	0.51	-0.33	-0.27	-1.18	0.16	-0.57
9	1.64	0.06	0.95	-0.55	-0.13	-1.00	0.42	-0.42	0.03	-0.64	0.60	-0.24
10	0.48	-0.22	0.92	0.12	-0.32	-0.90	-0.02	-0.67	0.10	-0.57	1.22	0.24
11	0.41	-0.17	0.27	-0.41	0.28	-0.67	0.00	-0.94	-0.10	-0.78	-0.03	-0.49
12	0.45	-0.45	0.37	-0.40	0.43	-0.30	0.06	-0.59	1.38	---	0.21	-0.58
13	1.10	0.05	0.50	-0.26	0.00	-0.63	0.30	-0.64	0.97	0.14	0.53	-0.58
14	1.98	0.26	0.43	-0.34	0.07	e-0.8	1.19	0.18	-0.33	-0.76	0.70	-0.11
15	1.81	1.03	0.68	-0.55	0.38	-0.22	-0.57	-1.06	-0.19	-0.98	-0.19	-0.90
16	1.39	0.18	1.38	0.24	1.50	0.41	0.00	-0.67	0.01	-0.72	-0.78	-1.14
17	-0.07	-0.59	0.30	-0.34	0.25	-0.57	-0.16	-0.90	0.84	-0.81	-0.31	-0.92
18	0.58	-0.30	-0.10	-0.72	-0.12	-0.86	1.82	---	-0.72	---	-0.19	-0.67
19	0.89	-0.22	0.29	-0.60	-0.10	-0.82	---	-1.19	---	---	-0.10	-0.77
20	0.48	-0.36	0.10	-0.56	-0.29	-0.94	-0.72	-1.11	-0.79	-1.19	-0.13	-0.91
21	0.45	-0.27	-0.05	-0.80	-0.41	e-1.2	-0.05	---	-0.32	-0.76	-0.16	-0.79
22	1.22	-0.19	0.88	-0.89	-0.32	-0.83	-0.82	e-1.4	-0.20	-0.91	0.08	-0.60
23	0.73	0.36	0.09	-0.56	-0.42	-0.97	-0.15	-0.60	0.28	-0.70	-0.08	-0.73
24	0.51	-0.26	0.75	0.33	-0.30	-0.80	0.50	-0.62	0.36	-0.35	0.08	-0.78
25	2.64	-0.51	-0.43	-0.90	0.64	-0.70	1.05	---	0.18	-1.29	0.43	-0.40
26	2.04	0.70	-0.25	-0.88	1.11	0.28	-0.51	-1.10	-0.48	-1.03	0.88	-0.03
27	0.22	-0.48	-0.04	-0.70	-0.18	-0.75	0.13	-1.05	-0.12	-0.83	0.75	-0.06
28	0.50	-0.33	0.40	-0.53	0.38	-0.73	0.12	-0.59	-0.06	-0.74	0.75	0.02
29	0.64	-0.05	0.84	-0.02	1.03	-0.09	0.63	-0.90	---	---	0.46	-0.17
30	0.57	-0.02	1.16	0.19	0.53	-0.20	0.94	-0.13	---	---	0.70	-0.11
31	0.61	-0.06	---	---	0.65	-0.42	1.17	-0.14	---	---	0.72	-0.11
Max	2.64	1.03	1.38	0.33	1.50	0.41	1.82	0.55	1.94	0.86	1.22	0.24
Min	-0.07	-0.59	-0.43	-0.90	-0.67	-1.32	-0.82	e-1.4	-0.86	---	-0.78	-1.24

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WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
[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	0.86	-0.28	0.31	-0.60	0.57	-0.14	0.41	-0.22	0.73	-0.02	0.30	-0.29
2	0.37	-0.48	0.88	0.31	0.55	-0.18	0.62	-0.31	0.59	-0.18	2.64	-0.57
3	0.26	-0.26	0.93	0.01	0.74	0.45	0.18	-0.58	0.63	-0.15	1.85	0.95
4	0.80	-0.33	0.78	0.08	0.67	-0.01	0.42	-0.32	0.68	-0.04	0.90	0.00
5	0.34	-0.47	0.86	0.06	0.53	-0.20	0.32	-0.40	0.83	-0.16	0.59	-0.20
6	0.16	-0.51	0.55	-0.06	0.16	-0.40	0.41	-0.38	1.00	0.06	1.16	0.15
7	0.50	-0.44	0.25	-0.42	0.82	-0.28	0.32	-0.60	1.08	0.20	0.78	0.18
8	0.39	-0.70	-0.07	-0.64	1.33	0.35	0.34	-0.55	0.45	-0.26	1.06	0.30
9	0.46	-0.54	0.05	-0.54	1.07	0.12	0.75	-0.12	0.36	-0.07	1.10	0.32
10	0.25	-0.24	0.88	0.14	0.47	-0.20	0.29	0.08	1.04	0.35	0.96	-0.06
11	0.25	-0.33	0.55	0.02	0.54	-0.50	0.82	0.09	1.03	-0.15	0.68	-0.20
12	0.26	-0.30	1.48	0.57	0.40	-0.22	0.70	-0.06	0.91	0.06	1.38	0.33
13	0.53	-0.56	1.39	0.20	0.70	-0.10	0.72	-0.30	0.84	0.01	1.49	0.48
14	0.00	-0.59	0.63	0.03	0.73	0.00	0.54	-0.11	1.22	0.07	1.19	0.44
15	0.32	-0.22	0.69	-0.29	0.66	-0.10	0.67	0.03	1.02	0.01	0.96	0.01
16	0.52	-0.16	0.90	0.20	0.64	-0.12	0.72	-0.08	0.45	-0.50	0.98	0.16
17	0.45	-0.40	1.02	0.34	0.54	-0.12	0.88	-0.03	0.28	-0.63	1.04	0.04
18	0.36	-0.41	1.22	0.36	0.71	-0.05	0.89	-0.10	0.31	-0.48	1.13	0.34
19	0.52	-0.10	1.18	0.41	0.94	-0.03	0.31	-0.39	0.88	-0.24	1.05	0.51
20	0.54	-0.18	1.05	0.30	0.46	-0.32	0.46	-0.90	0.63	-0.14	0.73	0.22
21	0.55	-0.10	1.11	0.10	0.44	-0.35	0.89	0.27	0.57	-0.32	0.29	-0.14
22	1.05	-0.15	0.52	-0.24	0.64	0.02	1.34	0.14	0.58	-0.12	0.49	-0.11
23	1.59	0.69	0.22	-0.42	0.33	0.03	0.39	-0.20	0.20	-0.12	0.91	0.11
24	0.85	0.19	0.57	-0.27	0.71	0.20	0.71	0.02	0.56	-0.13	0.67	0.09
25	0.92	0.07	0.97	-0.03	0.86	0.06	0.87	0.20	0.81	-0.07	0.41	-0.23
26	0.89	-0.37	0.70	0.11	0.88	0.33	0.71	0.00	0.76	0.10	0.54	-0.15
27	0.70	0.08	1.01	-0.04	0.92	0.21	1.01	0.29	1.29	0.56	0.75	-0.24
28	-0.41	-0.54	0.80	-0.19	1.18	0.46	0.98	0.16	1.35	0.28	1.06	0.06
29	0.44	-0.46	0.58	-0.05	0.92	0.13	0.59	-0.21	0.97	0.14	1.12	0.36
30	0.31	-0.49	0.72	-0.32	0.66	-0.16	0.42	-0.24	0.97	0.13	0.89	-0.24
31	---	---	0.48	-0.18	---	---	0.79	-0.10	0.72	-0.16	---	---
Max	1.59	0.69	1.48	0.57	1.33	0.46	1.34	0.29	1.35	0.56	2.64	0.95
Min	-0.41	-0.70	-0.07	-0.64	0.16	-0.50	0.18	-0.90	0.20	-0.63	0.29	-0.57