



Water-Data Report 2009

01409110 BARNEGAT BAY AT WARETOWN, NJ

BARNEGAT BAY

LOCATION.--Lat 39°47'28", long 74°10'55" referenced to North American Datum of 1983, Ocean Township, Ocean County, NJ, Hydrologic Unit 02040301, on the public fishing pier at the end of Bryant Road on west side of Barnegat Bay, 0.7 mi east of Waretown, and 3.2 mi south of Forked River.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1993 to current year.

GAGE.--Tide level recorder and tidal crest-stage gage. Datum of gage is 0.00 ft NAVD of 1988. To determine approximate elevations to NGVD of 1929, add 1.23 ft. To determine approximate elevations in Mean Lower Low Water datum, add 0.14 ft (revised to Tidal Epoch 1983-2001). From Aug 1993 to October 2000, gage was located at pier approximately 100 ft south of current site and datum was 0.00 ft NGVD of 1929. Data published to NGVD of 1929 can be adjusted to NAVD of 1988 by subtracting 1.23 ft. Online peaks have been adjusted to current datum.

REMARKS.--Missing gage-height record Jan 16-18, 20-21, and short portions of other days. Prior to Nov 1, 2005, gage could not measure a tide level below -0.82 ft. 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 recorded, 2.90 ft, Oct 25, 2005; minimum elevation, estimated at -2.0 ft, Dec 23, 2008, although a lower tide likely occurred during period of missing record on Feb 16, 2007 (elevation could not be accurately estimated).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 6.2 ft (adjusted to NAVD of 1988), Dec 11, 1992, from high-water mark at Waretown Fishing Station. Other significant peak elevation, 3.3 ft (adjusted to NAVD of 1988), Mar 7, 1962, from high-water mark at State Marina in Forked River 2.6 mi north. Based on residents' reports, the Nov 25, 1950 flood was a foot higher than the 1962 flood at Southwind Marina in Forked River.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 2.18 ft, Sep 11; minimum elevation, estimated at -2.0 ft, Dec 23.

Statistics of Tide Elevations, in feet
Water Year October 2008 to September 2009
[e, estimated]

Month	Mean High Tide	Mean Water Level	Mean Low Tide
October	0.62	0.30	-0.02
November	0.42	0.13	-0.18
December	-0.02	-0.28	-0.62
CALENDAR YEAR 2008	0.42	0.12	-0.20
January	e-0.1	---	---
February	0.06	-0.23	-0.54
March	0.29	0.00	-0.32
April	0.42	0.12	-0.21
May	0.38	0.08	-0.23
June	0.97	0.65	0.31
July	0.83	0.51	0.18
August	0.64	0.33	0.01
September	0.92	0.59	0.26
WATER YEAR 2009	0.47	0.17	-0.15

01409110 BARNEGAT BAY AT WARETOWN, NJ—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
[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			
1	1.26	0.83	0.45	-0.08	-0.44	-0.82	1.40	0.84	0.69	-0.28	-0.71	-1.04
2	1.04	0.56	0.13	0.45	-0.02	-0.40	-0.08	-0.35	-0.70	-0.26	-0.59	-0.85
3	0.38	0.03	-0.35	0.44	0.02	-0.29	-0.20	-0.58	-0.86	-0.48	-0.83	-1.20
4	0.15	-0.23	-0.58	0.16	-0.20	-0.47	-0.31	-0.67	-0.98	-0.82	-1.01	-1.22
5	0.12	-0.30	-0.65	0.58	0.09	-0.40	-0.29	-0.66	-0.97	-0.26	-0.57	-0.80
6	0.30	-0.11	-0.44	1.09	0.75	0.25	0.06	-0.29	-0.55	0.01	-0.29	-0.62
7	0.26	-0.12	-0.47	0.85	0.50	0.22	0.29	-0.23	-0.98	0.87	0.40	0.30
8	0.25	-0.12	-0.46	0.95	0.56	0.20	-0.69	-0.94	-1.22	0.46	-0.27	-0.67
9	0.24	-0.07	-0.38	0.81	0.43	0.13	-0.44	-0.71	-0.91	-0.72	-1.07	-1.39
10	0.20	-0.14	-0.44	0.52	0.11	-0.17	0.01	-0.35	-0.89	-0.06	-0.64	-1.41
11	0.32	-0.04	-0.34	0.25	-0.09	-0.46	0.63	0.04	-0.70	0.69	0.11	-0.45
12	0.35	0.04	-0.25	0.46	0.00	-0.47	1.53	0.74	0.08	0.68	0.18	-0.31
13	0.40	0.08	-0.24	0.82	0.28	-0.37	0.53	0.00	-0.40	0.68	0.25	-0.23
14	0.83	0.38	-0.14	1.22	0.68	0.22	0.29	-0.16	-0.64	0.44	0.05	-0.45
15	0.92	0.51	0.13	1.37	0.82	0.16	0.19	-0.23	-0.65	0.17	-0.22	-0.63
16	1.10	0.60	0.06	1.00	0.46	-0.16	-0.10	-0.37	-0.68	---	---	---
17	1.12	0.55	0.02	-0.03	-0.40	-0.82	0.46	-0.07	-0.48	---	---	---
18	1.26	0.72	0.28	0.53	-0.03	-0.51	0.14	-0.16	-0.48	---	---	---
19	1.60	1.06	0.54	0.89	0.34	-0.15	0.52	0.04	-0.37	0.53	---	-0.05
20	1.90	1.40	0.98	0.89	0.52	-0.07	1.04	0.70	0.42	---	---	---
21	1.36	1.01	0.66	0.57	0.21	-0.10	1.48	1.06	1.09	---	---	---
22	0.58	0.23	-0.22	0.19	-0.28	-0.60	---	-0.93	---	---	---	---
23	1.22	0.68	0.42	-0.49	-0.80	-1.02	-1.58	---	e-2.0	-0.33	-0.66	-1.05
24	1.02	0.63	0.26	-0.20	-0.55	-1.12	-0.62	-1.02	-1.66	0.24	-0.30	-0.66
25	1.37	0.70	0.08	0.62	0.15	-0.51	-0.61	-1.03	-1.27	-0.13	-0.49	-0.93
26	1.26	0.89	0.48	0.46	0.11	-0.27	-0.52	-0.96	-1.57	-0.11	-0.49	-0.82
27	0.98	0.62	0.23	0.61	0.19	-0.21	0.10	-0.36	-0.85	0.05	-0.37	-0.82
28	1.13	0.48	0.18	0.63	0.17	-0.19	0.14	-0.30	-0.64	0.53	0.06	-0.56
29	-0.36	-0.60	-0.93	0.41	0.01	-0.40	-0.24	-0.61	-0.96	-0.04	-0.27	-0.71
30	-0.11	-0.57	-1.05	0.90	0.42	-0.26	-0.32	-0.67	-0.96	-0.10	-0.41	-0.73
31	0.14	-0.30	-0.64	---	---	---	0.40	-0.29	-0.79	-0.01	---	-0.78
Max	1.90	1.40	0.98	1.37	0.82	0.25	1.53	1.06	1.09	0.87	0.40	0.30
Min	-0.36	-0.60	-1.05	-0.49	-0.80	-1.12	-1.58	-1.03	e-2.0	-0.82	-1.07	-1.41

01409110 BARNEGAT BAY AT WARETOWN, NJ—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
[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	-0.23	-0.50	-0.80	0.65	0.32	-0.10	0.66	0.28	-0.04	0.24	-0.15	-0.49
2	0.14	-0.18	-0.50	1.11	0.69	0.13	0.83	0.26	-0.29	0.20	-0.16	-0.49
3	0.90	0.52	0.22	0.75	-0.12	-0.83	0.96	0.52	0.21	0.32	-0.02	-0.36
4	1.42	0.81	-0.02	-0.16	---	-1.09	0.92	0.28	-0.12	0.58	0.20	-0.18
5	0.47	---	---	-0.34	-0.79	-1.05	0.05	-0.26	-0.64	0.66	0.24	-0.16
6	---	---	---	-0.30	-0.63	-0.80	0.92	0.31	-0.45	0.64	0.24	-0.14
7	0.24	-0.21	-0.64	-0.13	-0.50	-0.99	0.87	0.48	0.01	0.70	0.26	-0.17
8	0.36	-0.15	-0.59	0.16	-0.26	-0.83	0.40	0.05	-0.41	0.76	0.23	-0.18
9	0.04	-0.35	-0.77	0.70	0.21	-0.46	0.60	0.07	-0.32	0.94	0.40	0.02
10	0.45	-0.07	-0.65	0.86	0.41	0.02	0.64	0.11	-0.30	0.22	0.10	-0.50
11	0.81	0.28	-0.20	0.71	0.34	-0.04	0.64	0.24	-0.24	0.31	-0.18	-0.55
12	0.55	0.17	-0.38	0.05	-0.20	-0.74	0.72	0.04	-0.49	0.34	-0.02	-0.36
13	-0.51	-0.69	-1.06	-0.12	-0.43	-0.81	0.28	-0.33	-0.76	0.45	-0.06	-0.47
14	0.13	-0.24	-0.53	-0.01	-0.35	-0.72	-0.06	-0.24	-0.62	0.26	-0.19	-0.51
15	-0.01	-0.36	-0.66	0.13	-0.25	-0.63	0.78	0.50	0.22	0.42	-0.14	-0.63
16	0.30	0.01	-0.37	0.12	-0.23	-0.50	1.07	0.48	-0.09	-0.01	-0.30	-0.53
17	0.34	0.02	-0.28	0.47	0.02	-0.41	0.52	0.04	-0.45	0.41	0.00	-0.34
18	0.49	0.22	-0.05	0.27	-0.15	-0.46	0.00	-0.33	-0.61	0.16	-0.10	-0.45
19	1.17	0.63	0.51	0.18	-0.26	-0.70	0.33	0.02	-0.19	0.12	-0.18	-0.44
20	0.17	-0.49	-0.88	0.13	-0.22	-0.42	1.04	0.53	-0.05	-0.15	-0.37	-0.68
21	-1.02	-1.22	-1.44	0.38	0.02	-0.35	1.29	0.88	0.55	-0.07	-0.44	-0.84
22	-0.22	-0.59	-1.27	0.18	-0.16	-0.43	0.88	0.57	0.20	0.04	-0.39	-0.78
23	-0.59	-0.97	-1.32	-0.10	-0.39	-0.68	0.31	0.05	-0.46	0.47	-0.18	-0.53
24	-0.97	-1.31	-1.68	0.27	-0.19	-0.69	0.23	-0.29	-0.76	0.72	0.12	-0.31
25	-0.20	-0.72	-1.31	1.00	0.35	-0.20	0.45	-0.09	-0.50	0.36	0.11	-0.39
26	0.01	-0.37	-0.72	1.20	0.78	0.35	0.09	-0.07	-0.51	0.73	0.47	0.10
27	0.39	-0.17	-0.60	0.96	0.65	0.17	0.38	-0.07	-0.48	1.05	0.48	0.01
28	0.05	-0.11	-0.59	0.94	0.61	0.18	0.50	-0.09	-0.54	0.97	0.54	0.18
29	---	---	---	1.06	0.68	0.29	0.30	-0.26	-0.73	1.18	0.79	0.38
30	---	---	---	1.28	0.29	-0.40	0.20	-0.17	-0.52	1.19	0.71	0.30
31	---	---	---	0.36	-0.09	-0.43	---	---	---	0.90	0.55	0.13
Max	1.42	0.81	0.51	1.28	0.78	0.35	1.29	0.88	0.55	1.19	0.79	0.38
Min	-1.02	-1.31	-1.68	-0.34	-0.79	-1.09	-0.06	-0.33	-0.76	-0.15	-0.44	-0.84

01409110 BARNEGAT BAY AT WARETOWN, NJ—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
[*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	0.67	0.25	-0.15	1.32	0.92	0.44	0.43	0.06	-0.31	0.75	0.29	-0.02
2	0.45	0.14	-0.24	1.33	0.94	0.53	0.81	0.21	-0.24	0.75	0.35	0.01
3	0.66	0.16	-0.27	1.12	0.71	0.25	0.70	0.28	-0.12	0.92	0.44	0.09
4	0.77	0.30	-0.12	0.91	0.49	0.00	0.67	0.20	-0.23	0.86	0.52	0.12
5	1.25	0.59	0.19	0.92	0.42	0.02	0.68	0.26	-0.13	0.74	0.46	0.10
6	1.02	0.62	0.19	0.95	0.45	0.06	0.69	0.26	-0.12	0.87	0.53	0.18
7	0.94	0.45	-0.03	1.26	0.58	0.07	0.39	0.20	-0.17	1.00	0.62	0.28
8	0.94	0.43	0.08	0.80	0.66	0.22	0.51	0.18	-0.16	0.89	0.47	0.10
9	0.76	0.54	0.16	1.01	0.59	0.21	0.58	0.26	-0.04	1.08	0.64	0.12
10	1.18	0.65	0.19	1.02	0.49	0.09	0.65	0.29	-0.09	1.80	1.30	0.74
11	1.10	0.68	0.34	0.76	0.31	-0.05	0.68	0.32	-0.06	2.18	1.79	1.20
12	1.14	0.75	0.38	1.00	0.44	0.12	0.96	0.48	0.03	1.34	0.98	0.55
13	1.08	0.64	0.26	0.72	0.42	0.07	1.05	0.68	0.30	1.24	0.70	0.24
14	0.97	0.60	0.30	0.75	0.37	0.06	0.69	0.38	-0.04	1.22	0.73	0.27
15	1.00	0.67	0.30	0.49	0.15	-0.25	0.62	0.18	-0.26	1.16	0.69	0.26
16	0.92	e0.6	e0.3	0.77	0.28	-0.13	0.59	0.12	-0.33	1.69	0.96	0.44
17	0.78	0.46	0.06	0.97	0.48	0.02	0.65	0.11	-0.32	1.75	1.27	0.81
18	1.20	0.63	0.13	1.04	0.59	0.12	0.77	0.15	-0.33	1.29	0.90	0.45
19	1.13	0.72	0.24	0.81	0.34	-0.15	0.81	0.26	-0.21	0.87	0.50	0.12
20	1.36	0.67	0.07	0.92	0.33	-0.14	1.06	0.44	0.03	0.84	0.44	0.05
21	1.56	0.93	0.39	1.08	0.55	0.10	1.19	0.67	0.20	0.73	0.34	-0.02
22	1.64	1.04	0.58	0.97	0.51	0.01	1.18	0.76	0.41	0.71	0.27	-0.13
23	1.52	1.05	0.56	0.94	0.70	0.23	1.25	0.85	0.44	0.62	0.19	-0.19
24	1.08	0.91	0.40	1.53	e1.0	0.56	1.14	0.54	0.01	0.44	0.07	-0.30
25	1.39	0.78	0.30	1.27	0.78	0.39	0.68	0.23	-0.22	0.69	0.15	-0.27
26	1.18	0.76	0.33	1.14	0.75	0.35	0.50	0.15	-0.30	1.08	0.61	0.26
27	1.32	0.83	0.46	1.04	0.57	0.14	0.56	0.10	-0.30	1.14	0.73	0.40
28	1.12	0.82	0.44	0.61	0.27	-0.11	0.75	0.28	-0.08	0.96	0.38	-0.12
29	1.28	0.94	0.53	0.59	0.27	-0.15	1.14	0.61	0.22	0.65	0.37	0.01
30	1.35	0.97	0.53	0.60	0.27	-0.15	0.93	0.52	0.07	0.58	0.16	-0.15
31	---	---	---	1.00	0.19	-0.29	0.52	0.21	-0.21	---	---	---
Max	1.64	1.05	0.58	1.53	e1.0	0.56	1.25	0.85	0.44	2.18	1.79	1.20
Min	0.45	0.14	-0.27	0.49	0.15	-0.29	0.39	0.06	-0.33	0.44	0.07	-0.30

01409110 BARNEGAT BAY AT WARETOWN, NJ—Continued