

## Water-Data Report 2007

**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 near the Galley Restaurant 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.--Water-stage recorder and 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, datum of gage at 0.0 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 Feb 5-10, Feb 16-19, 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 stage telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 2.90 ft, Oct 25, 2005; minimum elevation recorded, -1.87 ft (adjusted to NAVD of 1988), Mar 4, 1996, although a lower tide likely occurred during period of missing record on Feb 16, 2007.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 6.2 ft (from high-water mark at Waretown Fishing Station, adjusted to NAVD of 1988), Dec 11, 1992. Other significant peak elevation, 3.3 ft (from high-water mark at State Marina in Forked River 2.6 mi north, adjusted to NAVD of 1988), Mar 7, 1962. 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, 2.05 ft, Apr 15; minimum elevation recorded, -1.84 ft, Oct 30, 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	0.63	0.29	-0.02
November	0.73	0.42	0.10
December	-0.02	-0.29	-0.58
CALENDAR YEAR 2006	0.44	0.15	-0.17
January	-0.03	-0.30	-0.59
February	---	---	---
March	-0.17	-0.43	-0.72
April	0.47	0.16	-0.16
May	0.22	-0.06	-0.36
June	0.60	0.30	-0.01
July	0.48	0.19	-0.12
August	0.66	0.35	0.03
September	0.47	0.17	-0.14
WATER YEAR 2007	0.35	0.06	-0.25

## 01409110 BARNEGAT BAY AT WARETOWN, NJ—Continued

**GAGE HEIGHT, FEET**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

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
	<b>October</b>		<b>November</b>		<b>December</b>		<b>January</b>		<b>February</b>		<b>March</b>	
<b>1</b>	0.86	0.01	0.53	-0.49	0.45	-0.26	0.71	-0.49	0.21	-0.72	0.29	-0.49
<b>2</b>	0.54	-0.23	0.79	-0.09	0.13	-0.68	0.58	-0.32	0.59	-0.43	1.13	-0.28
<b>3</b>	0.43	-0.28	0.64	-0.03	-0.07	-1.05	-0.09	-0.84	0.28	-0.58	1.00	0.28
<b>4</b>	0.66	-0.29	0.51	-0.25	0.33	-0.67	-0.18	-1.00	-0.92	-1.45	0.39	-0.49
<b>5</b>	0.79	-0.09	0.51	-0.37	0.37	-0.59	0.25	-0.75	---	---	-0.47	-1.12
<b>6</b>	1.68	0.24	0.53	-0.36	0.41	-0.59	0.39	-0.42	---	---	-1.37	-1.83
<b>7</b>	1.88	0.85	0.53	-0.42	0.46	-0.41	-0.02	-0.62	---	---	-1.00	-1.79
<b>8</b>	1.36	0.40	1.24	-0.05	-0.68	-1.45	0.74	-0.19	---	---	-0.53	---
<b>9</b>	0.97	0.12	1.46	0.61	-0.85	-1.51	0.01	-0.82	---	---	-0.66	-1.10
<b>10</b>	0.98	0.04	0.96	0.05	-0.91	-1.40	-0.46	-1.14	---	---	-0.37	-1.01
<b>11</b>	1.47	0.35	0.71	-0.17	-0.62	-1.42	-0.70	-1.04	---	-1.14	-0.32	-1.14
<b>12</b>	1.66	0.73	0.90	0.09	0.05	-0.53	-0.54	-1.45	-0.78	-1.52	-0.55	-1.07
<b>13</b>	0.96	0.06	1.51	0.74	0.20	-0.40	-0.76	-1.08	-0.76	-1.12	-0.40	-0.84
<b>14</b>	0.83	0.04	1.38	0.77	0.06	-0.56	0.00	-0.39	1.20	0.34	-0.13	-0.80
<b>15</b>	0.53	-0.21	0.95	0.37	0.23	-0.33	0.48	-0.35	---	-0.57	-0.12	-0.80
<b>16</b>	0.47	-0.19	1.06	0.13	0.33	-0.31	0.43	-0.37	---	---	1.28	-0.83
<b>17</b>	0.94	-0.01	1.17	0.39	0.15	-0.63	-0.17	-0.92	---	---	1.20	0.14
<b>18</b>	0.95	0.30	0.45	-0.19	0.02	-0.78	0.06	-0.90	---	---	0.24	-0.66
<b>19</b>	0.85	0.15	0.66	-0.25	0.21	-0.70	0.50	-0.48	---	---	-0.18	-1.14
<b>20</b>	1.06	0.17	0.64	-0.16	0.24	-0.71	-0.46	-1.19	-0.41	---	-0.24	-0.92
<b>21</b>	0.12	-0.55	0.45	-0.41	0.02	-0.75	-0.77	-1.58	0.06	-0.57	-0.31	-1.10
<b>22</b>	0.37	-0.68	1.36	-0.09	0.19	-1.10	0.28	-0.67	0.47	-0.18	-0.24	-0.89
<b>23</b>	0.57	-0.12	1.78	0.80	1.00	-0.21	0.55	-0.16	0.50	-0.74	-0.17	-1.09
<b>24</b>	0.60	-0.20	1.45	0.58	0.35	-0.54	0.48	-0.19	0.01	-0.83	-0.40	-0.93
<b>25</b>	0.33	-0.43	1.28	0.38	-0.03	-0.77	0.52	-0.20	0.09	-0.43	0.10	-0.72
<b>26</b>	0.31	-0.49	0.76	-0.08	0.91	0.10	0.26	-1.06	0.70	0.04	-0.08	-0.82
<b>27</b>	0.64	-0.27	0.32	-0.40	0.49	-0.57	0.00	-0.53	0.80	0.02	-0.08	-0.66
<b>28</b>	1.97	0.66	0.47	-0.36	-0.07	-0.79	0.37	-0.24	0.48	-0.23	-0.04	-0.73
<b>29</b>	---	---	0.65	-0.03	-0.16	-0.71	0.40	-0.36	---	---	-0.37	-0.92
<b>30</b>	-1.24	-1.84	0.48	-0.16	0.16	-0.50	0.23	-0.45	---	---	-0.05	-0.82
<b>31</b>	-0.06	-1.10	---	---	0.03	-0.70	0.02	-0.72	---	---	0.17	-0.56
<b>Max</b>	1.97	0.85	1.78	0.80	1.00	0.10	0.74	-0.16	1.20	---	1.28	0.28
<b>Min</b>	-1.24	-1.84	0.32	-0.49	-0.91	-1.51	-0.77	-1.58	---	---	-1.37	-1.83

**01409110 BARNEGAT BAY AT WARETOWN, NJ—Continued**
**GAGE HEIGHT, FEET**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

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
	<b>April</b>		<b>May</b>		<b>June</b>		<b>July</b>		<b>August</b>		<b>September</b>	
<b>1</b>	0.25	-0.48	0.61	-0.33	0.54	-0.39	0.20	-0.35	0.81	0.00	0.92	0.10
<b>2</b>	0.63	-0.26	0.52	-0.21	0.05	-0.51	0.57	-0.34	0.80	-0.02	0.78	-0.06
<b>3</b>	0.44	-0.14	0.23	-0.54	0.47	-0.16	0.49	-0.40	0.72	-0.06	0.60	-0.18
<b>4</b>	1.10	0.23	-0.21	-0.70	1.21	0.69	0.47	-0.39	0.69	-0.10	0.38	-0.40
<b>5</b>	1.22	-0.18	0.12	-0.60	1.47	0.38	0.54	-0.21	0.60	-0.20	0.56	-0.29
<b>6</b>	0.26	-0.58	0.50	-0.36	1.13	0.02	0.47	-0.22	0.72	-0.13	0.56	-0.25
<b>7</b>	0.21	-0.32	0.57	-0.51	0.72	-0.14	0.38	-0.31	0.69	-0.12	0.45	-0.33
<b>8</b>	0.36	-0.89	0.12	-0.70	0.64	-0.03	0.54	-0.28	0.81	-0.10	0.35	-0.51
<b>9</b>	-0.56	-1.55	0.04	-0.66	0.79	0.07	0.64	-0.22	0.92	-0.09	0.63	-0.23
<b>10</b>	-0.78	-1.16	0.12	-0.43	0.81	0.07	0.68	-0.28	1.18	0.09	0.91	0.02
<b>11</b>	-0.21	-0.69	0.33	-0.20	0.75	-0.07	0.93	-0.17	1.14	0.39	1.00	0.22
<b>12</b>	0.53	-0.03	0.56	-0.17	0.95	0.02	0.76	-0.17	0.87	0.06	0.53	-0.17
<b>13</b>	0.54	-0.54	0.52	-0.16	1.64	0.30	0.74	-0.28	0.95	0.05	0.36	-0.27
<b>14</b>	-0.20	-0.91	0.35	-0.37	1.39	0.46	0.78	-0.27	0.73	0.12	0.51	-0.18
<b>15</b>	2.05	-0.63	0.27	-0.49	1.22	0.36	0.89	-0.16	0.94	0.18	0.67	-0.12
<b>16</b>	2.00	1.05	0.48	-0.74	0.78	0.14	0.52	-0.15	0.82	0.04	0.32	-0.48
<b>17</b>	1.54	0.62	0.31	-0.31	1.07	-0.01	0.66	-0.09	0.65	-0.04	0.43	-0.39
<b>18</b>	1.59	0.77	0.89	0.01	0.81	-0.12	0.68	0.02	0.53	-0.36	0.59	-0.07
<b>19</b>	1.82	0.87	0.99	-0.26	0.72	-0.11	0.82	0.12	0.15	-0.48	0.41	-0.19
<b>20</b>	1.71	0.28	0.56	-0.32	0.89	-0.02	0.71	-0.08	0.61	-0.33	0.22	-0.42
<b>21</b>	1.13	-0.17	0.52	-0.40	0.67	-0.09	0.34	-0.28	1.16	0.16	0.38	-0.44
<b>22</b>	0.62	-0.34	0.46	-0.45	0.48	-0.20	0.34	-0.26	0.88	0.11	0.58	-0.27
<b>23</b>	0.48	-0.40	0.22	-0.55	0.39	-0.28	0.66	-0.07	0.64	-0.09	0.38	-0.34
<b>24</b>	0.21	-0.77	0.08	-0.56	0.34	-0.28	0.36	-0.34	0.65	-0.21	0.40	-0.32
<b>25</b>	0.03	-0.55	-0.26	-0.78	0.25	-0.45	0.37	-0.43	0.67	-0.18	0.43	-0.42
<b>26</b>	0.30	-0.40	0.17	-0.61	0.16	-0.53	0.37	-0.42	0.72	-0.18	0.58	-0.23
<b>27</b>	0.38	-0.38	0.18	-0.47	0.15	-0.70	0.59	-0.37	0.72	-0.14	0.77	-0.10
<b>28</b>	0.56	-0.14	0.24	-0.45	0.28	-0.64	0.84	-0.15	0.79	-0.06	1.00	0.08
<b>29</b>	0.44	-0.16	0.12	-0.58	0.40	-0.49	0.82	-0.10	0.86	0.08	0.74	-0.19
<b>30</b>	0.65	-0.12	0.32	-0.53	0.51	-0.37	0.81	-0.10	0.82	0.14	0.77	-0.22
<b>31</b>	---	---	0.41	-0.49	---	---	0.62	-0.02	1.02	0.22	---	---
<b>Max</b>	2.05	1.05	0.99	0.01	1.64	0.69	0.93	0.12	1.18	0.39	1.00	0.22
<b>Min</b>	-0.78	-1.55	-0.26	-0.78	0.05	-0.70	0.20	-0.43	0.15	-0.48	0.22	-0.51

**01409110 BARNEGAT BAY AT WARETOWN, NJ—Continued**