

Water-Data Report 2009

01409146 EAST THOROFARE AT SHIP BOTTOM, NJ

BARNEGAT BAY

LOCATION.--Lat 39°39'14", long 74°11'09" referenced to North American Datum of 1983, Ship Bottom Borough, Ocean County, NJ, Hydrologic Unit 02040301, on south side of bridge carrying State Route 72 across East Thorofare (Manahawkin Bay) between Bonnet Island and Long Beach Island, 2.0 mi southeast of Bayside, 9.0 mi southwest of Barnegat Inlet, and 11.5 mi northeast of Little Egg Inlet.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Unpublished fragmentary gage-height record, July 1997 to May 5, 2000. Continuous-record tide gage, May 5, 2000 to current year.

GAGE.--Tide level recorder and tidal crest-stage gage. Datum of gage is at 0.00 ft NAVD of 1988. To determine approximate elevations to NGVD of 1929, add 1.25 ft. To determine approximate elevations to Mean Lower Low Water datum, add 0.64 ft (revised to Tidal Epoch 1983-2001).

REMARKS.--Missing gage-height record on Jan 16-31, Feb 1, 5-7, Mar 4-5, 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 telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 3.52 ft, Oct 25, 2005; minimum elevation recorded, -2.27 ft, Nov 14, 2003, although a lower tide likely occurred during period of missing record on Feb 16, 2007.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 2.72 ft, Sep 11; minimum elevation recorded, -1.85 ft, Dec 26, although a lower tide likely occurred during a period of missing record on 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	1.16	0.39	-0.34
November	0.98	0.24	-0.49
December	0.50	e-0.2	e-0.9
CALENDAR YEAR 2008	0.93	0.20	-0.52
January	---	---	---
February	e0.7	---	---
March	0.94	0.15	-0.57
April	0.97	0.19	-0.54
May	0.89	0.13	-0.59
June	1.44	0.68	-0.07
July	1.23	0.47	-0.26
August	1.09	0.32	-0.42
September	1.36	0.59	-0.17
WATER YEAR 2009	1.01	0.27	-0.46

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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			January		
1	1.82	0.88	0.05	0.53	-0.41	-1.18	1.80	---	-0.15	0.48	---	---
2	1.56	0.63	-0.25	1.18	0.12	-0.61	0.44	-0.40	-1.05	---	---	---
3	0.99	0.05	-0.64	1.02	0.09	-0.61	0.42	-0.50	-1.13	0.00	---	---
4	0.76	-0.16	-0.88	0.73	-0.12	-0.77	0.09	-0.66	-1.20	---	---	---
5	0.59	-0.25	-0.95	1.19	0.24	-0.57	0.31	-0.53	-1.13	0.23	-0.42	-1.10
6	0.89	0.03	-0.65	1.68	1.05	0.08	0.61	-0.16	-0.74	0.62	-0.20	-0.80
7	0.80	0.03	-0.58	1.41	0.66	0.01	0.85	0.03	-0.34	1.42	0.59	-0.88
8	0.79	-0.02	-0.67	1.37	0.61	-0.11	-0.14	---	-1.19	0.82	-0.31	-1.07
9	0.69	-0.03	-0.68	1.34	0.50	-0.12	0.25	---	---	0.01	-0.96	-1.74
10	0.80	-0.06	-0.70	1.14	0.20	-0.56	0.72	-0.33	-1.25	0.59	-0.54	-1.76
11	0.95	0.06	-0.68	0.97	0.01	-0.84	1.32	0.17	-1.09	1.60	0.31	-0.77
12	0.99	0.13	-0.61	1.22	0.10	-0.81	2.28	0.88	-0.15	1.50	0.31	-0.66
13	0.98	0.14	-0.64	1.45	0.34	-0.77	1.23	0.03	-0.83	1.40	---	---
14	1.48	0.44	-0.53	1.92	0.74	-0.22	1.16	-0.13	-1.04	1.26	---	---
15	1.56	0.54	-0.32	2.08	0.84	-0.27	0.95	-0.28	-1.09	0.69	---	---
16	1.75	0.64	-0.37	1.68	0.46	-0.63	0.54	-0.42	-1.14	---	---	---
17	1.86	0.70	-0.27	0.64	-0.40	-1.22	1.25	0.08	-0.70	---	---	---
18	2.11	0.95	-0.04	1.44	0.20	-0.69	e0.7	e-0.1	-0.86	---	---	---
19	2.55	1.43	0.58	1.66	0.59	-0.30	0.95	0.12	-0.72	---	---	---
20	2.50	1.61	0.78	1.41	0.64	-0.48	1.71	0.95	0.16	---	---	---
21	1.94	1.10	0.31	1.21	0.35	-0.36	2.00	1.23	0.90	---	---	---
22	1.30	0.37	-0.46	0.86	-0.09	-0.65	0.20	-0.74	-1.55	---	---	---
23	1.82	0.90	-0.23	0.03	-0.73	-1.32	-1.14	---	---	---	---	---
24	1.51	0.70	-0.09	0.42	-0.44	-1.45	0.22	---	---	---	---	---
25	1.83	0.65	-0.35	1.23	0.25	-0.81	-0.14	e-1.0	-1.61	---	---	---
26	1.81	---	---	1.09	0.16	-0.61	0.10	-0.83	-1.85	---	---	---
27	1.57	0.69	-0.23	1.34	0.27	-0.53	0.86	-0.26	-1.13	---	---	---
28	1.98	0.71	-0.13	1.31	0.22	-0.54	0.80	-0.33	-1.07	---	---	---
29	0.20	-0.65	-1.42	1.12	0.07	-0.69	0.53	-0.51	-1.30	---	---	---
30	0.78	-0.42	-1.33	1.48	0.54	-0.61	0.42	-0.51	-1.28	---	---	---
31	0.86	-0.20	-0.90	---	---	---	1.48	0.03	-1.11	---	---	---
Max	2.55	1.61	0.78	2.08	1.05	0.08	2.28	1.23	0.90	1.60	0.59	-0.66
Min	0.20	-0.65	-1.42	0.03	-0.73	-1.45	-1.14	-1.00	-1.85	0.00	-0.96	-1.76

01409146 EAST THOROFARE AT SHIP BOTTOM, 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	---	---	---	1.54	0.62	-0.30	1.25	0.34	-0.42	0.91	-0.10	-0.90
2	0.70	---	---	2.24	1.17	0.10	1.42	0.30	-0.62	0.71	-0.13	-0.83
3	1.59	0.87	0.27	1.52	---	---	1.40	0.63	-0.11	0.85	0.06	-0.81
4	2.08	---	---	---	---	---	1.63	0.50	-0.23	1.14	0.26	-0.59
5	---	---	---	---	---	---	0.70	-0.12	-0.90	1.24	0.38	-0.46
6	---	---	---	0.32	-0.51	-1.14	1.64	0.42	-0.86	1.24	0.32	-0.55
7	---	---	---	0.54	-0.42	-1.31	1.56	0.61	-0.33	1.27	0.23	-0.62
8	1.04	---	---	0.80	-0.23	-1.22	1.00	0.10	-0.76	1.42	0.25	-0.60
9	0.82	---	---	1.46	0.36	-0.82	1.21	0.08	-0.75	1.54	0.41	-0.41
10	1.21	0.03	-1.03	1.59	0.51	-0.38	0.76	0.11	-0.71	0.72	0.23	-0.70
11	1.43	0.33	-0.60	1.31	0.35	-0.53	1.32	0.36	-0.48	0.94	-0.11	-0.87
12	1.54	0.44	-0.54	0.68	-0.16	-1.14	1.62	0.30	-0.68	1.00	0.03	-0.70
13	0.48	-0.56	-1.28	0.49	-0.37	-1.14	1.03	-0.20	-0.99	1.05	-0.06	-0.81
14	0.83	-0.02	-0.80	0.68	-0.26	-1.06	0.47	-0.24	-0.96	0.74	-0.20	-0.84
15	0.68	-0.21	-0.89	0.74	-0.20	-0.97	1.36	0.65	-0.04	0.77	-0.20	-0.87
16	1.08	0.21	-0.55	0.72	-0.17	-0.81	1.77	0.61	-0.30	0.56	-0.21	-0.82
17	1.02	0.19	-0.54	1.11	0.19	-0.60	1.04	0.11	-0.72	0.82	0.09	-0.50
18	1.05	0.30	-0.36	0.80	-0.07	-0.77	0.48	-0.23	-0.81	0.72	0.06	-0.65
19	1.66	0.83	0.42	0.48	-0.29	-0.83	0.87	0.12	-0.81	0.61	-0.10	-0.81
20	0.68	-0.34	-0.85	0.70	-0.02	-0.63	1.53	0.60	-0.32	0.32	-0.37	-1.08
21	-0.46	-1.13	-1.68	0.96	0.16	-0.51	1.74	0.94	0.13	0.45	-0.44	-1.22
22	0.53	-0.38	-1.58	0.74	-0.08	-0.77	1.45	0.62	-0.21	0.58	-0.41	-1.17
23	0.25	-0.75	-1.43	0.59	-0.16	-0.88	0.85	0.11	-0.75	1.29	-0.14	-0.94
24	-0.20	-1.08	-1.82	0.97	0.08	-0.79	0.79	-0.28	-1.06	1.33	0.14	-0.78
25	0.44	---	---	1.61	0.50	-0.48	1.15	-0.11	-0.95	0.75	0.12	-0.77
26	0.56	-0.32	-1.08	1.75	0.82	-0.01	0.63	-0.07	-0.98	1.41	0.49	-0.42
27	0.71	-0.14	-0.97	1.55	0.67	-0.27	1.11	-0.06	-0.96	1.80	0.56	-0.38
28	0.85	-0.09	-0.90	1.46	0.65	-0.18	1.18	-0.12	-1.04	1.66	0.63	-0.17
29	---	---	---	1.73	0.77	-0.13	0.85	-0.25	-1.03	1.88	0.91	0.04
30	---	---	---	1.90	0.44	-0.78	0.96	-0.07	-0.86	1.80	0.82	-0.06
31	---	---	---	1.05	-0.02	-0.81	---	---	---	1.42	0.61	-0.25
Max	2.08	0.87	0.42	2.24	1.17	0.10	1.77	0.94	0.13	1.88	0.91	0.04
Min	-0.46	-1.13	-1.82	0.32	-0.51	-1.31	0.47	-0.28	-1.06	0.32	-0.44	-1.22

01409146 EAST THOROFARE AT SHIP BOTTOM, 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	1.20	0.31	-0.55	1.75	0.92	0.07	0.94	0.06	-0.67	1.30	0.36	-0.36
2	0.97	0.14	-0.65	1.77	0.95	0.15	1.30	0.19	-0.52	1.25	0.37	-0.37
3	1.23	0.24	-0.59	1.62	0.71	-0.13	1.20	0.26	-0.52	1.44	0.44	-0.32
4	1.43	0.39	-0.40	1.44	0.52	-0.27	1.14	0.15	-0.64	1.41	0.59	-0.24
5	1.91	0.63	-0.19	1.38	0.36	-0.42	1.22	0.21	-0.52	1.24	0.43	-0.39
6	1.57	0.78	-0.16	1.48	0.39	-0.40	1.26	0.26	-0.52	1.27	0.46	-0.36
7	1.48	0.44	-0.41	1.63	0.52	-0.25	0.89	0.25	-0.50	1.46	0.60	-0.17
8	0.86	0.42	-0.35	1.21	0.62	-0.18	1.06	0.15	-0.58	1.34	0.46	-0.38
9	1.56	0.58	-0.16	1.50	0.52	-0.21	1.07	0.22	-0.55	1.59	0.63	-0.28
10	1.70	0.70	-0.10	1.56	0.48	-0.34	1.14	0.30	-0.42	2.25	1.31	0.28
11	1.70	0.78	0.07	1.26	0.27	-0.50	1.15	0.34	-0.44	2.72	1.83	0.80
12	1.76	0.79	0.07	1.20	0.34	-0.33	1.45	0.47	-0.42	1.71	0.91	0.04
13	1.60	0.68	-0.01	1.19	0.41	-0.34	1.55	0.71	-0.12	1.74	0.75	-0.13
14	1.49	0.69	-0.03	1.13	0.37	-0.39	1.14	0.39	-0.41	1.76	0.79	-0.10
15	1.51	0.76	-0.01	0.90	0.14	-0.66	1.14	0.18	-0.64	1.72	0.69	-0.18
16	1.37	0.65	-0.12	1.10	0.18	-0.67	1.15	0.11	-0.76	2.19	0.88	-0.08
17	1.17	e0.5	e-0.3	1.44	0.47	-0.39	1.24	0.11	-0.76	2.22	1.35	0.49
18	1.54	0.54	-0.29	1.57	0.61	-0.27	1.36	0.09	-0.87	1.78	0.86	-0.08
19	1.68	0.71	-0.16	1.39	0.32	-0.64	1.44	0.20	-0.74	1.45	0.47	-0.39
20	1.92	0.67	-0.34	1.51	0.28	-0.65	1.60	0.40	-0.57	1.43	0.40	-0.45
21	2.20	1.00	0.05	1.72	0.53	-0.40	1.39	0.54	-0.43	1.27	0.28	-0.54
22	2.30	1.09	0.13	1.57	0.45	-0.51	1.62	0.69	-0.23	1.25	0.24	-0.60
23	1.72	1.06	0.06	1.26	0.63	-0.32	1.77	0.86	-0.01	1.17	0.17	-0.63
24	2.13	0.86	-0.12	2.36	1.06	-0.02	1.57	0.49	-0.47	0.93	0.03	-0.73
25	1.97	0.74	-0.20	1.68	0.69	-0.14	1.26	0.26	-0.64	1.21	0.21	-0.54
26	1.73	0.70	-0.17	1.51	0.65	-0.21	1.03	0.16	-0.64	1.44	0.62	-0.06
27	1.77	0.82	0.00	1.41	0.51	-0.34	1.12	0.13	-0.72	1.54	---	0.02
28	1.69	0.88	-0.02	1.02	0.24	-0.55	1.23	0.28	-0.48	1.27	0.33	-0.36
29	1.78	0.97	0.08	0.99	0.20	-0.59	1.61	0.62	-0.18	1.03	0.40	-0.19
30	1.70	0.92	0.05	1.11	0.25	-0.52	1.45	0.52	-0.25	1.12	0.18	-0.58
31	---	---	---	1.27	0.12	-0.68	1.07	0.23	-0.57	---	---	---
Max	2.30	1.09	0.13	2.36	1.06	0.15	1.77	0.86	-0.01	2.72	1.83	0.80
Min	0.86	0.14	-0.65	0.90	0.12	-0.68	0.89	0.06	-0.87	0.93	0.03	-0.73

01409146 EAST THOROFARE AT SHIP BOTTOM, NJ—Continued