



Water-Data Report 2009

01411330 BEACH THOROFARE AT MARGATE CITY, NJ

BEACH THOROFARE

LOCATION.--Lat 39°20'15", long 74°30'47" referenced to North American Datum of 1983, Margate City, Atlantic County, NJ, Hydrologic Unit 02040302, on pier near southeast end of toll bridge on Margate-Northfield Road (County Route 563) at western edge of Margate City, 500 ft east of Pork Island, and 3.2 mi northeast of Great Egg Harbor Inlet.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Unpublished fragmentary gage-height record, June 1997 to March 2000. Continuous-record tide gage, April 2000 to current year.

REVISED RECORDS.--WDR NJ-02-1:2001.

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 1.30 ft. To determine approximate elevations to Mean Lower Low Water datum, add 2.49 ft (revised to Tidal Epoch 1983-2001).

REMARKS.--Missing gage-height record on short portions of some days. Summaries for months with short periods of missing gage-height record have been estimated with little or no loss of accuracy. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 4.52 ft, Oct 7, 2006; minimum elevation recorded, -5.24 ft, Mar 9, 2005, although a lower tide may have occurred during period of partially missing record on Feb 17, 2007.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 9.8 ft (adjusted to NAVD of 1988), Mar 6 or 7, 1962, from high-water mark near the intersection of Washington and Atlantic Avenues in Margate City.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 4.08 ft, Jul 23; minimum elevation recorded, -4.58 ft, Jan 8.

Statistics of Tide Elevations, in feet
Water Year October 2008 to September 2009

Month	Mean High Tide	Mean Water Level	Mean Low Tide
October	2.01	0.15	-1.77
November	1.89	-0.01	-1.91
December	1.32	-0.58	-2.51
CALENDAR YEAR 2008	1.83	-0.08	-2.02
January	1.50	-0.48	-2.45
February	1.59	-0.39	-2.39
March	1.82	-0.14	-2.09
April	1.90	-0.08	-2.08
May	1.84	-0.13	-2.12
June	2.44	0.49	-1.51
July	2.19	0.28	-1.68
August	2.04	0.13	-1.81
September	2.38	0.50	-1.42
WATER YEAR 2009	1.91	-0.03	-1.98

01411330 BEACH THOROFARE AT MARGATE CITY, 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	2.95	0.62	-1.43	1.68	-0.68	-2.65	2.54	0.29	-1.72	1.27	-0.73	-2.67
2	2.39	0.07	-1.88	2.35	0.14	-1.48	1.14	-0.96	-2.58	1.08	-0.81	-2.69
3	1.98	-0.38	-2.12	1.87	-0.17	-1.78	1.43	-0.79	-2.35	0.74	-1.19	-2.96
4	1.77	-0.38	-2.04	1.71	-0.32	-1.88	0.89	-1.02	-2.77	0.56	-1.21	-2.93
5	1.31	-0.47	-2.02	2.14	0.50	-1.23	1.32	-0.72	-2.22	1.36	-0.52	-2.40
6	1.82	-0.04	-1.38	2.58	1.21	-0.77	1.50	-0.22	-1.90	1.75	-0.28	-1.98
7	1.62	-0.07	-1.44	2.17	0.49	-1.26	1.64	-0.63	-3.42	2.66	0.54	-2.04
8	1.65	-0.14	-1.50	2.13	0.38	-1.65	0.67	-1.22	-3.04	1.85	-1.45	-4.58
9	1.45	-0.30	-2.02	2.11	0.11	-2.19	1.68	-0.75	-2.91	1.33	-1.45	-3.73
10	1.82	-0.22	-1.75	2.15	-0.18	-2.72	2.12	-0.66	-3.28	2.38	-0.41	-3.94
11	2.12	-0.03	-1.99	2.07	-0.29	-2.43	2.62	0.14	-2.36	3.24	0.11	-2.74
12	2.18	-0.04	-2.06	2.64	-0.15	-2.71	3.72	0.36	-2.37	3.00	0.02	-2.94
13	2.15	-0.12	-2.54	3.12	0.28	-2.72	2.54	-0.60	-3.38	2.96	0.04	-2.71
14	2.87	e0.4	-2.12	3.51	0.44	-2.11	2.81	-0.50	-3.25	2.51	-0.40	-3.00
15	2.88	e0.2	-2.33	3.91	0.60	-2.12	2.43	-0.79	-3.25	1.82	-0.54	-2.61
16	3.24	0.31	-2.28	2.52	-0.60	-3.35	1.80	-1.01	-3.61	1.63	-0.91	-2.87
17	3.45	0.45	-2.11	1.88	-0.90	-3.47	2.62	-0.16	-2.48	1.12	-0.73	-2.45
18	3.74	0.82	-1.66	2.67	0.05	-2.14	1.70	-0.48	-2.44	1.37	-0.36	-1.93
19	4.06	1.47	-0.87	2.78	0.48	-1.50	1.95	-0.01	-2.02	1.88	0.29	-1.44
20	3.73	1.44	-0.60	2.23	0.26	-2.02	2.63	0.84	-1.06	2.07	0.13	-1.57
21	2.75	0.56	-1.90	2.05	0.07	-1.92	2.96	0.94	-1.55	2.23	0.12	-1.98
22	2.24	0.06	-1.94	1.73	-0.64	-2.71	0.40	-2.14	-4.38	1.56	-0.68	-2.83
23	2.91	0.94	-1.13	0.98	-1.07	-2.97	-0.11	-1.90	-3.64	1.13	-0.70	-2.51
24	2.25	0.45	-1.46	1.74	-0.45	-2.25	1.59	-0.71	-2.30	2.04	-0.34	-2.15
25	2.85	0.76	-1.75	2.01	---	-2.22	0.53	-1.56	-3.45	2.00	-0.46	-2.40
26	2.66	0.54	-1.74	1.99	-0.22	-2.17	1.48	-0.76	-3.39	1.88	-0.65	-2.81
27	2.62	0.38	-1.98	2.47	0.04	-1.98	2.24	-0.32	-2.22	2.18	-0.40	-2.61
28	3.07	-0.18	-2.56	2.48	-0.10	-2.31	2.01	-0.72	-2.66	2.66	0.12	-2.19
29	1.08	-1.52	-3.79	2.37	-0.13	-2.10	1.79	-0.77	-3.01	1.60	-0.88	-3.06
30	2.09	-0.56	-2.77	2.86	0.68	-1.69	1.31	-0.88	-2.87	1.82	-0.55	-2.62
31	2.12	-0.48	-2.41	---	---	---	2.29	-0.29	-2.81	1.42	-0.63	-2.73
Max	4.06	1.47	-0.60	3.91	1.21	-0.77	3.72	0.94	-1.06	3.24	0.54	-1.44
Min	1.08	-1.52	-3.79	0.98	-1.07	-3.47	-0.11	-2.14	-4.38	0.56	-1.45	-4.58

01411330 BEACH THOROFARE AT MARGATE CITY, NJ—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
[*e*, estimated]

Day	High-high	Mean	Low-low									
February			March			April			May			
1	0.71	-0.91	-2.74	2.63	0.75	-1.57	2.64	0.21	-1.71	2.19	-0.45	-2.31
2	1.47	-0.22	-1.96	3.45	1.07	-1.17	2.53	-0.05	-1.94	1.74	-0.48	-2.69
3	2.43	0.89	-0.70	2.49	-0.55	-2.66	2.56	0.65	-1.27	1.91	-0.02	-2.18
4	3.17	0.61	-1.86	1.65	-0.87	-2.70	2.44	-0.25	-2.45	2.25	0.23	-1.92
5	2.10	-0.36	-2.61	1.40	-0.90	-2.67	1.65	-0.47	-2.80	2.34	0.26	-2.03
6	2.31	-0.35	-2.74	1.50	-0.90	-2.91	2.96	0.55	-2.33	2.52	0.13	-2.27
7	2.50	-0.38	-2.73	1.81	-0.63	-2.74	2.45	0.08	-2.40	2.37	-0.14	-2.52
8	2.38	-0.50	-3.12	2.12	-0.30	-2.71	2.14	-0.45	-2.95	2.74	0.00	-2.29
9	2.28	-0.66	-3.57	2.87	0.33	-2.46	2.46	-0.24	-2.88	2.79	0.14	-2.03
10	2.80	-0.15	-3.31	2.99	0.30	-2.40	2.62	-0.25	-2.74	2.12	-0.38	-2.36
11	2.90	0.12	-2.64	2.60	-0.06	-2.59	3.04	0.19	-2.37	2.28	-0.43	-2.51
12	2.15	-0.52	-3.25	1.68	-0.79	-3.29	2.25	-0.12	-2.23	2.16	-0.17	-2.04
13	2.15	-1.18	-3.71	2.10	-0.70	-3.23	1.58	-0.60	-2.51	0.84	-0.35	-2.12
14	1.90	-0.14	-2.17	1.93	-0.55	-2.69	1.04	-0.27	-2.45	1.88	-0.44	-2.07
15	1.62	-0.50	-2.53	1.22	-0.50	-2.43	2.54	1.00	-0.74	1.54	-0.60	-2.31
16	2.13	0.10	-1.46	1.82	-0.37	-2.18	2.67	0.41	-1.05	1.53	-0.35	-2.02
17	1.84	0.08	-1.24	2.24	0.13	-1.30	1.72	-0.20	-1.72	1.54	-0.16	-1.88
18	1.84	0.25	-1.03	1.62	-0.31	-1.63	1.10	-0.51	-1.90	1.56	-0.05	-1.69
19	2.38	0.43	-2.38	1.16	-0.48	-1.79	1.61	0.18	-1.35	1.33	-0.34	-2.15
20	1.33	-1.11	-3.25	1.42	-0.04	-1.60	2.38	0.78	-0.91	1.42	-0.60	-2.61
21	0.41	-1.37	-3.04	1.73	0.07	-1.52	2.50	0.68	-1.30	1.70	-0.61	-2.82
22	1.73	-0.47	-1.77	1.54	-0.40	-2.13	2.52	0.26	-1.77	2.01	-0.65	-2.95
23	1.15	-1.46	-3.67	1.58	-0.32	-2.22	1.81	-0.54	-3.01	2.79	-0.38	-2.93
24	0.98	-1.30	-3.86	2.13	0.05	-2.08	2.23	-0.60	-3.08	2.75	-0.17	-2.70
25	1.90	-0.53	-3.02	2.88	0.52	-1.86	2.55	-0.40	-2.86	3.04	-0.31	-2.85
26	1.81	-0.57	-2.87	2.92	0.64	-1.69	2.57	-0.46	-3.01	3.41	0.39	-2.55
27	1.95	-0.35	-2.64	2.74	0.26	-2.09	2.64	-0.47	-2.87	3.12	0.16	-2.18
28	2.28	-0.46	-2.78	2.99	0.42	-1.96	2.04	-0.69	-2.97	2.04	0.33	-2.10
29	---	---	---	2.99	0.52	-1.80	1.37	-0.60	-3.16	3.35	0.64	-1.52
30	---	---	---	1.05	-0.39	-2.75	2.34	-0.31	-2.34	2.93	0.38	-1.81
31	---	---	---	2.27	-0.33	-2.58	---	---	---	2.36	0.28	-1.84
Max	3.17	0.89	-0.70	3.45	1.07	-1.17	3.04	1.00	-0.74	3.41	0.64	-1.52
Min	0.41	-1.46	-3.86	1.05	-0.90	-3.29	1.04	-0.69	-3.16	0.84	-0.65	-2.95

01411330 BEACH THOROFARE AT MARGATE CITY, 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			
1	1.96	0.05	-1.95	2.90	0.85	-1.14	2.04	-0.09	-1.64	2.62	0.46	-1.44
2	2.23	-0.14	-2.36	2.89	0.86	-1.14	2.30	0.17	-1.66	2.44	0.38	-1.40
3	2.45	0.15	-1.94	2.68	0.52	-1.38	2.41	0.09	-1.74	2.73	0.46	-1.55
4	2.75	0.42	-1.71	2.64	0.33	-1.57	2.37	0.02	-1.82	2.57	0.56	-1.39
5	3.24	0.63	-1.68	2.66	0.30	-1.58	2.37	-0.02	-1.89	2.31	0.22	-1.87
6	2.76	0.59	-1.54	2.83	0.29	-1.63	2.53	0.08	-2.10	2.71	0.40	-1.92
7	2.68	0.15	-1.82	2.75	0.37	-1.50	2.19	0.00	-1.90	2.64	0.56	-1.42
8	2.85	0.13	-1.98	2.78	0.42	-1.54	2.26	-0.02	-2.07	2.56	0.36	-1.61
9	2.88	---	-1.56	2.88	0.43	-1.67	2.26	-0.01	-2.02	2.88	0.69	-1.46
10	2.87	0.47	-1.45	2.43	0.32	-1.46	2.06	0.06	-1.80	3.68	1.73	-0.24
11	2.85	0.62	-1.24	2.18	0.07	-1.74	2.11	0.12	-1.84	3.81	e1.9	-0.55
12	1.60	0.50	-1.25	1.73	0.04	-2.12	2.40	0.35	-1.74	2.73	0.49	-1.42
13	2.45	0.44	-1.31	2.19	0.28	-1.59	2.62	0.61	-1.31	2.95	0.68	-1.17
14	2.44	0.55	-1.27	2.04	0.15	-1.64	2.22	0.15	-1.70	3.05	0.73	-1.33
15	2.38	0.58	-1.20	1.98	-0.07	-2.00	2.32	0.03	-1.92	3.16	0.59	-1.62
16	2.13	0.47	-1.35	2.13	0.05	-1.87	2.49	0.01	-2.08	3.85	0.95	-1.71
17	2.23	0.40	-1.41	2.66	0.45	-1.58	2.66	-0.01	-2.29	3.55	1.38	-1.07
18	2.53	e0.7	e-1.4	2.89	0.49	-1.70	2.83	e-0.1	e-2.6	2.94	0.40	-2.25
19	2.91	---	---	2.91	0.17	-2.13	3.11	e0.0	e-2.8	2.74	0.16	-2.62
20	3.56	0.64	-1.77	3.21	e0.2	e-2.3	3.19	0.19	-2.49	2.83	0.14	-2.42
21	3.92	0.89	-1.61	3.33	0.40	-2.21	2.84	0.17	-2.42	2.65	0.01	-2.27
22	4.03	0.94	-1.59	3.22	e0.1	e-2.6	3.12	0.39	-2.30	2.57	0.03	-2.12
23	3.77	0.78	-1.82	4.08	e0.5	e-2.4	3.10	0.59	-1.76	2.35	-0.08	-2.00
24	3.53	0.43	-2.11	2.95	0.70	-2.01	2.45	-0.06	-2.29	2.04	-0.21	-2.06
25	3.26	0.38	-2.09	2.64	e0.3	e-2.4	2.47	0.04	-2.14	2.46	0.36	-1.45
26	2.33	0.35	-2.08	2.72	0.23	-2.12	1.97	-0.19	-2.13	2.49	0.78	-0.70
27	3.11	0.49	-1.95	2.36	e0.0	e-2.2	2.29	0.07	-1.85	2.37	---	-0.99
28	2.85	0.71	-1.77	2.16	-0.07	-2.06	2.25	0.31	-1.36	2.11	0.21	-1.55
29	2.70	0.76	-1.45	1.98	0.00	-1.80	2.63	0.68	-0.92	1.74	0.15	-1.09
30	2.77	0.77	-1.25	2.06	-0.02	-1.82	2.46	0.38	-1.27	2.18	0.06	-1.96
31	---	---	---	2.00	-0.06	-1.76	2.18	0.10	-1.56	---	---	---
Max	4.03	0.94	-1.20	4.08	0.86	-1.14	3.19	0.68	-0.92	3.85	1.90	-0.24
Min	1.60	-0.14	-2.36	1.73	-0.07	e-2.6	1.97	-0.19	e-2.8	1.74	-0.21	-2.62

01411330 BEACH THOROFARE AT MARGATE CITY, NJ—Continued