



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Ocean Service  
Silver Spring, Maryland 20910

**TIDE NOTE FOR HYDROGRAPHIC SURVEY**

**DATE :** October 25, 2007

**HYDROGRAPHIC BRANCH:** Atlantic  
**HYDROGRAPHIC PROJECT:** OPR-B310-TJ-2007  
**HYDROGRAPHIC SHEET:** H11709

**LOCALITY:** 2 NM Northeast of Sandy Hook, New York Harbor and Approaches, NY/NJ  
**TIME PERIOD:** June 29 - September 27, 2007

**TIDE STATION USED:** 853-1680 Sandy Hook, NJ  
Lat. 40° 28.0' N Long. 74° 0.6' W  
**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 1.492 meters

**TIDE STATION USED:** 851-9483 Bergen Point, NY  
Lat. 40° 38.2' N Long. 74° 8.5' W  
**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 1.582 meters

**REMARKS: RECOMMENDED ZONING**

Please use the TCARI grid "B310TJ2007-TCARI-F.tc" as the final grid for project OPR-B310-TJ-2007, H11709, during the time period between June 29 to September 27, 2007.

**Refer to attachments for zoning information.**

**Note 1:** Provided time series data are tabulated in metric units (meters), relative to MLLW and on Greenwich Mean Time on the 1983-2001 National Tidal Datum Epoch (NTDE).

**Note 2:** Due to uncertain levels at The Battery (8518750) during the period from October, 2006 to September, 2007, Bergen Point and Sandy Hook are used for residuals for the TCARI grid.

**Peter J. Stone**

Digitally signed by Peter J. Stone  
DN: cn=Peter J. Stone, o=US, ou=CO-OPS,  
ou=NOAA/NOS, email=peter.stone@noaa.gov  
Reason: I am approving this document  
Date: 2007.10.31 12:23:44 -0400

CHIEF, PRODUCTS AND SERVICES DIVISION



Year_DOY	Min Time	Max Time
2007_180	14:40:46	19:24:17
2007_181	13:33:32	19:12:19
2007_182	12:50:09	19:22:26
2007_183	12:43:01	19:26:23
2007_184	12:41:06	19:05:53
2007_185	12:43:43	16:09:40
2007_186	12:30:41	19:15:03
2007_187	12:43:00	19:16:47
2007_188	12:47:19	19:01:45
2007_216	13:09:11	19:09:09
2007_217	13:09:20	19:03:17
2007_218	13:18:11	19:13:05
2007_219	13:53:29	19:22:35
2007_220	13:02:06	19:08:09
2007_221	13:20:12	19:03:13
2007_225	16:55:15	19:00:15
2007_226	12:57:16	20:44:59
2007_227	13:04:51	19:15:36
2007_228	12:49:44	21:16:26
2007_229	13:14:28	18:59:49
2007_231	12:39:08	21:03:37
2007_234	12:49:48	21:29:23
2007_235	13:11:07	21:29:07
2007_236	13:04:34	21:05:54
2007_237	14:56:35	21:28:51
2007_265	12:50:19	21:25:06
2007_266	12:45:17	21:24:50
2007_267	12:37:57	21:17:14
2007_268	12:49:33	21:25:02
2007_269	12:32:58	21:17:11
2007_270	12:50:51	20:51:58