

<p>U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE</p> <p>HORIZONTAL AND VERTICAL CONTROL REPORT</p>
<p><i>Type of Survey</i> Navigable Area</p> <p><i>Field No.</i> D304-TJ-06</p> <p><i>Registry No.</i> H11303, H11323 & H11568</p>
<p>LOCALITY</p> <p><i>State</i> Virginia</p> <p><i>General Locality</i> Chesapeake Bay</p>
<p><u>2006</u></p> <p>CHIEF OF PARTY</p> <p>CDR Raymond C. Slagle</p> <p>NOAA Ship THOMAS JEFFERSON</p>
<p>LIBRARY & ARCHIVES</p> <p>DATE</p>

I. Projects Surveyed

D304-TJ-06

Registry #: H11303

- General Locality: Chesapeake Bay
- Sublocality: 15NM Southeast of Cape Henry
- Chief of party: CDR Raymond C. Slagle
- Project Instructions: March 9, 2006

Registry #: H11323

- General Locality: Chesapeake Bay
- Sublocality: 2NM North of Little Creek
- Chief of party: CDR Raymond C. Slagle
- Project Instructions: March 9, 2006

Registry #: H11568

- General Locality: Chesapeake Bay
- Sublocality: 17NM Southeast of Cape Henry
- Chief of party: CDR Raymond C. Slagle
- Project Instructions: March 9, 2006

II. Vertical Control

A. D304-TJ-05

The operating National Water Level Observation Network (NWLON) station at Chesapeake Bay Bridge Tunnel, VA (863-8863) served as datum control for the survey areas, the operating water level station at Rudee Inlet (863-9207) also provided water level reducers for this project. Neither of these stations required opening or closing bracket levels by personnel from the THOMAS JEFFERSON. Both gauges used for OPR-D304-TJ-06 were GOES enabled acoustic VX1100 gauges. Preliminary tide zoning was provided with the Project Instructions. Observed water level data were downloaded from the CO-OPS website. These water level data and preliminary zoning were applied to bathymetry data in Caris Hips.

Chesapeake Bay Bridge Tunnel, VA

- Station ID: 873-5180
- Latitude: 36° 58.0' N
- Longitude: 076° 06.8' W
- No unusual tidal, water level or current conditions were reported.
- No leveling was required by personnel from NOAA Ship THOMAS JEFFERSON
- See table 1 for the dates of hydrography.

Rudee Inlet, VA

- Station ID: 863-9207
- Latitude: 36° 49.9' N
- Longitude: 075° 58.4' W
- No unusual tidal, water level or current conditions were reported.
- No leveling was required by personnel from NOAA Ship THOMAS JEFFERSON
- See table 1 for the dates of hydrography.

Table 1 - Dates of Hydrography

Year_DOY	Min Time	Max Time	Year_DOY	Min Time	Max Time
2005_153	12:49:30	20:40:06	2006_101	19:23:34	21:48:11
2005_154	12:19:36	21:50:04	2006_102	13:38:52	21:28:54
2005_164	17:55:00	21:49:03	2006_103	13:11:07	21:20:09
2005_165	12:23:05	21:33:56	2006_104	13:13:49	21:28:14
2005_174	14:37:26	19:44:26	2006_105	12:45:56	21:21:08
2005_238	16:18:13	22:29:06	2006_106	13:30:59	21:24:27
			2006_107	15:54:52	18:39:02
			2006_108	13:07:13	21:21:47
			2006_109	13:06:28	21:25:45
			2006_110	13:33:02	21:39:05
			2006_111	14:34:39	21:38:02
			2006_112	13:05:40	19:17:20
			2006_113	13:23:44	21:29:28
			2006_114	13:11:52	21:33:55
			2006_115	12:48:00	21:21:24
			2006_122	16:21:20	21:43:02
			2006_123	15:13:17	18:43:47
			2006_124	12:33:38	21:43:03
			2006_125	12:34:00	21:36:36
			2006_126	12:49:39	20:59:25
			2006_129	14:48:24	21:32:11
			2006_130	12:28:18	21:40:16
			2006_136	12:31:21	21:32:14
			2006_137	12:51:47	21:36:16
			2006_138	12:35:11	21:20:51
			2006_140	12:49:44	21:31:47
			2006_141	12:31:22	21:32:17
			2006_143	17:18:39	21:31:55
			2006_164	13:26:56	19:19:32
			2006_165	13:49:53	21:12:13
			2006_166	4:58:05	23:00:00
			2006_167	0:00:02	23:00:00
			2006_168	0:00:02	22:53:12
			2006_169	0:03:34	22:36:37
			2006_170	0:00:00	22:59:59
			2006_171	0:02:12	19:26:19
			2006_172	12:33:51	22:59:59
			2006_173	0:31:57	23:00:00
			2006_174	0:43:12	18:16:44
			2006_175	4:02:29	23:55:08
			2006_176	0:02:00	23:55:18
			2006_177	0:02:43	7:16:06
			2006_188	17:19:59	23:59:57
			2006_189	0:00:02	17:56:01

III. Horizontal Control

All parameters were provided in the letter instructions and no additional fieldwork was completed that would change these parameters.

IV. Approval

As Chief of Party, I have ensured that all information contained in the Vertical and Horizontal Control Report is complete and accurate to the best of my knowledge.

Submitted:


ENS Matthew Jaskoski, NOAA
Tides Officer

Approved and Forwarded:


LT Marc S. Moser, NOAA
Operations Officer


CDR Raymond C. Slagle, NOAA
Commanding Officer