# U.S. DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE

# HORIZONTAL AND VERTICAL CONTROL REPORT

Type of Survey Basic Hydrographic

Registry No. H11400, H11395, F00524, F00522, F00521, & F00529

This report covers all registered surveys for the 2006 field season.

# LOCALITY

State New York, Long Island Sound, Maine, & Virginia

General Locality See Chapter I

Sublocality See Chapter I

# 2006

# CHIEF OF PARTY

LT Jasper D. Schaer

NOAA Navigation Response Team 5

# **LIBRARY & ARCHIVES**

DATE

#### I. Projects Surveyed

#### A. OPR-B310-NRT5-06

- Registry #: H11396
- State: New York
- General Locality: Southern Section of Hudson River
- Chief of party: LT Jasper D. Schaer
- Project Instructions: January 5, 2005

#### B. OPR-B310-NRT5-06

- Registry #: H11400
- State: New York
- General Locality: New London Harbor
- Chief of party: LT Jasper D. Schaer
- Project Instructions: January 5, 2005

#### C. OPR-B470-NRT5-06

- Registry #: F00521
- State: Connecticut
- General Locality: New London Harbor
- Chief of party: LT Jasper D. Schaer
- Project Instructions: June 2, 2006

# D. OPR-B301-NRT5-06

- Registry #: F00522
- State: Rhode Island
- General Locality: Newport Harbor
- Chief of party: LT Jasper D. Schaer
- Project Instructions: July 3, 2006

#### E. OPR-A911-NRT5-06

- Registry #: F00524
- State: Maine
- General Locality: Portland Harbor
- Chief of party: LT Jasper D. Schaer
- Project Instructions: August 15, 2006

#### F. S-E926-NRT5-06

- Registry #: F00529
- State: VA
- General Locality: Little Creek
- Chief of party: LT Jasper D. Schaer
- Project Instructions: November 09, 2006

# II. Vertical Control

#### A. OPR-B310-NRT5-06

All tide stations for this project utilized Vitel's Acoustic VX1100 data logger and associated sensors. Preliminary tide zoning was provided with the project instructions. Observed water level data was downloaded and applied, until verified water level data was made available from the CO-OPS website.

# The Battery, NY

- Station ID: 851-8750
- Latitude: 40° 42.0' N Longitude: 74° 0.9' W
- Time Meridian: +5

•	Dates used:	Year_DOY 2005_076 2005_077 2005_087 2005_089 2005_305 2006_005	Min Time 14:15:52 14:56:06 14:49:20 15:30:38 14:45:14 17:24:23 16:18:50	Max Time 18:57:59 17:55:59 19:44:05 16:17:41 15:00:42 13:31:20
		2006_079	16:18:50	17:18:55

No unusual tidal, water level or current conditions were reported and no changes to height and time correctors or zoning were applied. No installation, setup or leveling was required for this project. Unusual current conditions were reported for the area. No installation, setup or leveling was required for this project.

#### B. OPR-B310-NRT5-06

All Tide Stations used for this project were Acoustic VX1100. No preliminary tide zoning was need. Observed water level data was downloaded and applied, until verified water level data was made available from the CO-OPS website.

#### Sandy Hook, NY

- Station ID: 853-1680
- Latitude: 40° 28.0' N
  - Longitude: 74° 00.6' W
- Time Meridian: +5

2006 123 13:16:34 15:52:06	•	Dates used:	Year_DOY 2005_305 2005_306 2005_318 2005_321 2005_335 2005_339 2005_340 2006_030 2006_031 2006_081 2006_123	Min Time 11:33:00 09:17:00 11:15:00 11:28:00 09:16:00 09:47:00 10:45:00 17:53:29 09:48:00 14:17:27 13:16:34	Max Time 18:33:28 16:16:19 18:51:01 18:27:49 19:08:03 19:25:32 17:38:51 18:10:44 18:43:21 18:05:42 15:52:06
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2006\_303 17:33:00 18:30:00

No unusual tidal, water level or current conditions were reported and no changes to height and time correctors or zoning were applied. No installation, setup or leveling was required for this project. Unusual current conditions were reported for the area. No installation, setup or leveling was required for this project.

# C. OPR-B470-NRT5-06

All Tide Stations used for this project were Acoustic VX1100. No preliminary tide zoning was need. Observed water level data was downloaded and applied, until verified water level data was made available from the CO-OPS website.

#### New London, CT

- Station ID: 846-1490
- Latitude: 41° 21.3' N Longitude: 72° 05.2' W
- Time Meridian: +5

•	Dates used:	Year_DOY 2006_151 2006_152 2006_156 2006_157 2006_163 2006_164	Min Time 12:23:23 12:53:55 13:09:43 14:38:48 14:15:50 13:47:57	Max Time 16:16:07 13:41:08 16:08:11 15:28:49 14:42:35 16:58:19
		2000_101	13-17-57	T0:00:T)

No unusual tidal, water level or current conditions were reported and no changes to height and time correctors or zoning were applied. No installation, setup or leveling was required for this project. Unusual current conditions were reported for the area. No installation, setup or leveling was required for this project.

#### D. OPR-B301-NRT5-06

All Tide Stations used for this project were Acoustic VX1100. No preliminary tide zoning was need. Observed water level data was downloaded and applied, until verified water level data was made available from the CO-OPS website.

# Newport, RI

- Station ID: 845-2660
- Latitude: 41° 30.3' N Longitude: 71° 19.6' W
- Time Meridian: +5

Dates used:	Year_DOY	Min Time	Max Time
	2006_178	14:06:59	15:55:12
	2006_184	12:50:59	20:43:01
	2006_186	12:16:15	18:02:39
	2006_187	13:19:18	21:11:47
	2006_188	12:50:27	16:11:11

No unusual tidal, water level or current conditions were reported and no changes to height and time correctors or zoning were applied. No installation, setup or leveling was required for this project. Unusual current conditions were reported for the area. No installation, setup or leveling was required for this project.

#### E. S-A911-NRT5-06

All Tide Stations used for this project were Acoustic VX1100. No preliminary tide zoning was need. Observed water level data was downloaded and applied, until verified water level data was made available from the CO-OPS website.

# Portland, ME

- Station ID: 841-8150
- Latitude: 43° 39.4' N Longitude: 70° 14.8' W
- Time Meridian: +5

•	Dates used:	Year_DOY	Min Time	Max Time
		2006_081	17:50:48	18:36:06
		2006_082	13:01:15	19:21:07

No unusual tidal, water level or current conditions were reported and no changes to height and time correctors or zoning were applied. No installation, setup or leveling was required for this project. Unusual current conditions were reported for the area. No installation, setup or leveling was required for this project.

#### F. S-E926-NRT5-06

All Tide Stations used for this project were Acoustic VX1100. No preliminary tide zoning was need. Observed water level data was downloaded and applied, until verified water level data was made available from the CO-OPS website.

#### Little Creek, VA

- Station ID: 863-8863
- Latitude: 36° 58.0' N Longitude: 76° 16.8' W
- Time Meridian: +5

٠	Dates used:	Year_DOY	Min Time	Max Time
		2006_318	15:00:00	20:30:00
		2006_319	15:00:00	20:45:00
		2006_321	12:30:00	20:30:00

No unusual tidal, water level or current conditions were reported and no changes to height and time correctors or zoning were applied. No installation, setup or leveling was required for this project. Unusual current conditions were reported for the area. No installation, setup or leveling was required for this project.

# 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:

Vitad Pradith Physical Science Technician

Bert S. Ho Physical Science Technician

Approved and Forwarded:

LT Jasper D. Schaer, NOAA Team Leader

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12/08/2006