

<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 <i>Field No.</i> J376-TJ-05 <i>Registry No.</i> H11512</p>
<p>LOCALITY</p> <p><i>State</i> Mississippi <i>General Locality</i> Gulf of Mexico</p>
<p><u>2005</u></p> <p>CHIEF OF PARTY</p> <p>CAPT Emily B. Christman NOAA Ship THOMAS JEFFERSON</p>
<p>LIBRARY & ARCHIVES</p> <p>DATE</p>

I. Projects Surveyed**J376-TJ-05****Registry #: 11512**

- General Locality: Gulf of Mexico
- Sublocality: Horn Island Pass and Approaches
- Chief of party: CAPT Emily B. Christman
- Project Instructions: September 7, 2005

II. Vertical Control**A. J376-TJ-05**

The operating National Water Level Observation Network (NWLON) station at Dauphin Island, AL (873-5180) served as datum control for the survey areas, control for data determination at the subordinate station, and will provide reducers for this project. This gauge did not require leveling by personnel from THOMAS JEFFERSON. A 30 day tide stations: 874-1533 located at Pascagoula Point, MS was installed by CO-OPS and THOMAS JEFFERSON personnel. This station required opening and closing bracket levels by personnel from THOMAS JEFFERSON. Both gauges used for OPR-B376-TJ-05 were acoustic VX1100 gauges and all gauges were GOES enabled. 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.

Dauphin Island, AL

- Station ID: 873-5180
- Latitude: 30° 15.0' N
- Longitude: 088° 04.5' W
- No unusual tidal, water level or current conditions were reported.
- No leveling was required by personnel from NOAA Ship THOMAS JEFFERSON
- See table below for the dates of hydrography.

Pascagoula Point, MS

- Station ID: 874-1533
- Latitude: 30° 22.1' N
- Longitude: 088° 33.8' W
- No unusual tidal, water level or current conditions were reported.
- Installation of station 874-1533 was performed by CO-OPs and THOMAS JEFFERSON personnel on September 9, 2005. Opening Bracket Levels were done by personnel from CO-OPs and THOMAS JEFFERSON on September 10, 2005. A package containing site reports and opening bracket levels was sent to N/OPS1 on September 29, 2005. Closing Bracket Levels for 851-1533 were done by personnel from NOAA Ship THOMAS JEFFERSON on October 22, 2005. A package containing site reports and closing bracket levels was sent to N/OPS1 on November 17, 2005.

- See table below for the dates of hydrography.

Table 1 - Dates of Hydrography

Year_DOY	Min Time	Max Time
2005_253	15:20:45	23:17:46
2005_254	12:48:19	22:52:54
2005_255	12:19:19	23:08:01
2005_256	13:38:22	22:58:01
2005_257	12:28:47	23:05:22
2005_258	12:26:37	21:11:14
2005_259	12:32:02	23:12:42
2005_260	12:38:48	22:53:07
2005_261	12:22:57	22:59:57
2005_262	12:10:50	23:05:31
2005_263	12:03:55	23:19:25


III. Horizontal Control

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


IV. Approval

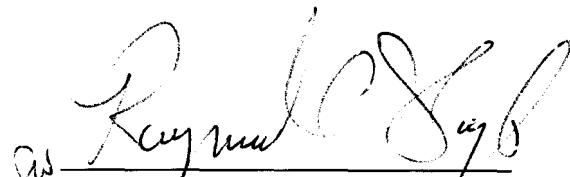
As Chief of Party, I have ensured that all information contained in the Vertical and Horizontal Control Report is complete and accurate to the best of my knowledge.

Submitted:


ENS Matthew Jaskoski, NOAA
Junior Officer

Approved and Forwarded:


LT Marc S. Moser, NOAA
Operations Officer


Saw CAPT Emily B. Christman, NOAA
Commanding Officer