U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE

Horizontal & Vertical Control Report

Type of SurveyNavigable Areas & Field Examination
Project NoOPR-G347-NRT2-08
<i>Time Frame</i> May 2008 to September 2009
LOCALITY
StateSouth Carolina
General LocalityCharleston
2009
CHIEF OF PARTY
Robert W. Ramsey Jr. – Team Leader
Library & Archives

Horizontal & Vertical Control Report Title Sheet

Project NoOPR-G347-NRT2-08
Date of Project Instructions09 April, 2008 Change No.1 Date:07/28/2008
VesselNOAA Launch 1210
Field UnitNavigation Response Team 2
Chief of BranchCDR. Lawrence T. Krepp
Chief of Party Robert W Ramsey Ir – Team Leader

Vertical and Horizontal Control Report OPR-G347 -NRT2-08

Calendar year 2008-2009, Charleston, SC

There were no vertical or horizontal controls established by NRT2 during OPR-G347.

There was one calibration point established on the dock, to enable launch 1210 to perform monthly calibration checks referenced to DGPS for survey acquisition. This point was established with a Trimble DGPS Backpack.

A comparison was also made between the POS MV system with the same DGPS configured hardware. The results of this test inserted below:

S-1210 POS M/V Position Check OPR-G347-NRT2-08

An alongside docked system check was preformed for the POS M/V system check, with an independent DGPS system.

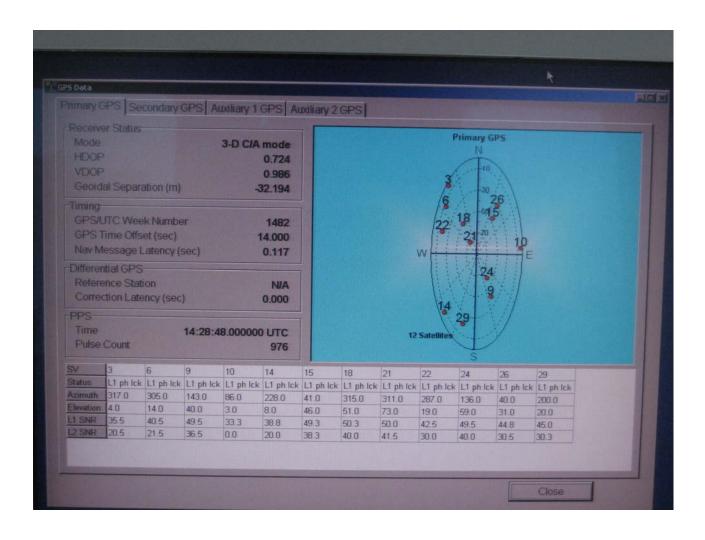
The results, under these conditions, were deemed satisfactory for a field check.

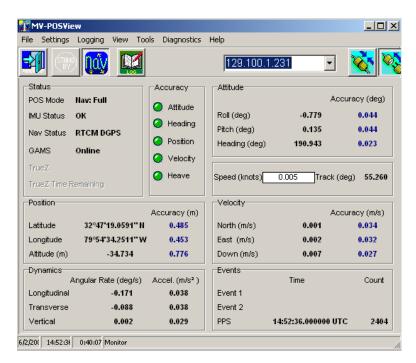
The Trimble Instrument was placed over the RP Plate cover.

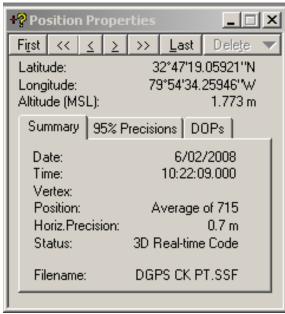


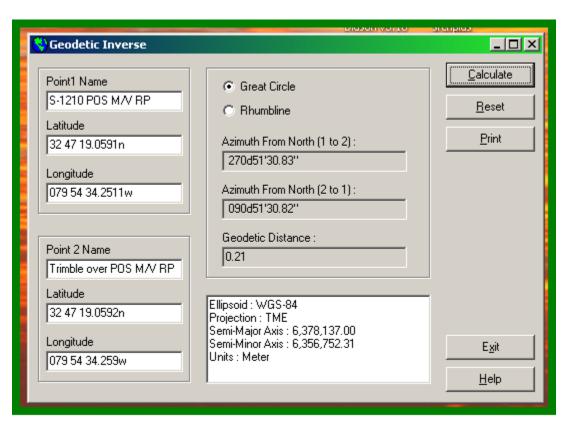
Logged data from the handheld Trimble was compared to a screen grab capture of the POS M/V system.

Minor multi-path error may have been present due to the low antenna height. Even with this distortion, the values were low.









S-1210 POS M/V Calib Check // OPR-G347 2008

With the Trimble ANT at approx: 13cm aft of RP, and approx: 60cm above RP, the calculated value of 21cm is considered expectable.

E. APPROVAL SHEET

Vertical and Horizontal Control Report OPR-G347-NRT2-08

And Accompanying Surveys For Calendar year 2008/09

The Vertical and Horizontal Control Report information and all accompanying records and data are approved.

Submitted by:

Robert W. Ramsey Jr. - Team Leader Navigation Response Team 2