

C. HORIZONTAL AND VERTICAL CONTROL *See also H-Cell Report.*

NOAA tide station 8720030 Fernandina Beach, FL was the source of verified water level heights for determining correctors to soundings. The primary means for analyzing the adequacy of zoning was observing zone boundary crossings in the navigated swath editor, SAIC's **Multi View Editor (MVE)**. In addition, sun illuminated coverage plots were examined on screen for adequacy of zoning. Comparisons between overlapping cross line data and outer swath data (in deeper water) were also used to assess potential tidal zoning impacts. *Concur.*

Table C-1. Water Level Zoning Parameters Applied on Sheet H12096

Zone	Time Corrector (minutes)	Range Ratio	Reference Station
SA189	-36	0.98	8720030
SA191	-48	0.95	8720030
SA192	-36	0.95	8720030
SA196	-48	0.91	8720030

The survey data for sheet H12096 were collected in horizontal datum NAD-83, using geodetic coordinates, while data display and products used the UTM Zone 17 projection. The following equipment was used for positioning on the *M/V Atlantic Surveyor*:

- Applanix POS/MV, Model 320 Version 4, Serial Number 2575 with a Trimble ProBeacon Differential Receiver (primary sensor)
- Trimble 7400 Rsi GPS Receiver, Serial Number 3815A22469 with a Trimble ProBeacon Differential Receiver (secondary sensor)

The Trimble ProBeacon Differential Receivers were manually programmed to receive corrector data from the U.S. Coast Guard Stations at Cape Canaveral, FL; Savannah, GA; and Kensington, SC.

Daily position confidence checks were conducted using the independent Trimble DGPS. A real-time **ISS-2000** survey monitor also raised an alarm to alert the survey watch if the position differences exceeded the maximum allowable distance. All positioning confidence checks were within an inverse distance of five meters (see Separates I*).

Please refer to the Horizontal and Vertical Control Report* (SAIC Doc 10-TR-029) for detailed descriptions of the procedures and systems used to attain hydrographic positioning. This report will be provided with the Descriptive Report for the last sheet delivered on this task order (H12097). **Concur.**

***Filed with original field records.**