

## 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 crossline data and outer swath data (in deeper water) were also used to assess potential tidal zoning impacts. The water level zoning parameters provided by NOS, Table C-1, were adequate for application of the observed verified water levels.

Table C-1. Water Level Zoning Parameters Applied on Sheet H12095

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 H12095 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*: