

one that contains the chart soundings, all of the features, meta objects, and blue notes (H11620\_CS.000) and on that contains the dense sounding selection and depth curves (H11620\_SS.000). Finally, quality assurance checks were made utilizing both DKART Inspector version 5.0 and Caris S-57 Composer version 2.0 validation checks.

Chart compilation was performed by Atlantic Hydrographic Branch personnel in Norfolk, Virginia. Compilation data will be forwarded to Marine Chart Division, Silver Spring, Maryland.

**H11620 CARIS H-Cell final deliverables include the following products:**

H11620_CS.000	1:20,000 Scale	H11620 H-Cell with Chart Scale Selected Soundings
H11620_SS.000	1:10,000 Scale	H11620 Selected Soundings (Survey Scale)

**B.2.2. Junctions**

Survey H11620 junctions with survey H11384 (2005) along the western approach channel into Pascagoula, and survey H11385 (2005) along with eastern approach channel. Both junction surveys compare favorably with present survey soundings, within 1-2 feet in common areas.

**C. VERTICAL AND HORIZONTAL CONTROL**

A known tide error existed in this survey of significant magnitude. Much of the error was previously attributed to meteorological effects. Further investigation revealed incorrect appending of Caris tide files—tide files in Local Standard Time (LST) were combined with files in GMT. The survey was conduct in LST, meaning all of the tide data appended in GMT had significant tide error.

In addition, the Mean Lower Low Water level in this area has undergone an epic datum shift since the time of this survey. The shift was of a negligible magnitude, but since tides were being re-applied regardless, the datum shift was accounted for.

Lastly, offsets observed in the Caris HVF’s submitted by the field unit did not match those listed in the DAPR. The field unit was contacted regarding this discrepancy and correct HVF’s were obtained.

Tide data was downloaded for each tide station in LST to encompass all survey times. The tide data was re-applied, and all the data was re-merged with the correct HVF’s. The surfaces were then recreated, and the results were favorable, as much of the observed tide error was removed. Tide error still exists in Area 4, and this error is evident in the depth curves.

The two screen captures below show interpolated surfaces created from the dense sounding selections before tide correction, and after tide correction.

