

Caris HIPS software

Bug with processing data in XSE format

We regret to report a bug that occurs when Caris HIPS software processes SeaBeam3000 series systems' data in the XSE format. This bug is fixed on the 8.1.8 and later versions. We apologize for failing to confirm and report this bug earlier.

Bug details

If HIPS loads SeaBeam3000 series system' s data in the XSE format and performs sound velocity correction (SVC), the draft value set in the Vessel config file would not be reflected,

※This problem does not occur when the data is processed with Hypack in the HSX format.

Case example

-In a sea area of 1000 meters deep (from the water surface to the bottom), data were obtained with a Seabeam3000 system from a ship of 10-meter draft with the following settings:

-An appropriate offset value was input into the Vessel config file.

-An appropriate offset value was input into the SeaBeam system as well.

The results of processing the above obtained data by various ways are as below:

-XSE data were imported by HIPS and Load tide-Merge was performed.

Result: 1010m the draft was applied twice.

-XSE data were imported by HIPS and Load tide-SVC-Merge was performed.

Result: 990m the draft was not applied.

The following were the successfully cases:

-HSX data were imported on HIPS and Load tide-SVC-Merge was performed.

Result: 1000m the HSX data was processed appropriately.

-HSX data were processed with HSMBMAX.

Result: 1000m Hypack software has no processing problem.

Cause

The data loaded with the ELAC converter consists of XYZ data fully processed with HSO and of a raw data that has not been corrected. If the Merge process is done on HIPS without the SVC correction, the draft value in Vessel config is added twice to the XYZ data in the XSE format. If the SVC correction is done, a XYZ data is created from the raw data but the draft value in Vessel config is completely ignored. This is considered to be the cause of the problem.

Solutions

This bug is fixed on 8.1.8 and later versions. With 8.1.7 or earlier versions, you need to set the draft value to 0 in Vessel config without using SVC. For data already processed with the 8.1.7 or earlier versions, you need to open the project at issue on HIPS 8.1.8 or later versions and perform SVC correction and Merge process again before exporting the data.