Creating Non-standard HYPACK® files
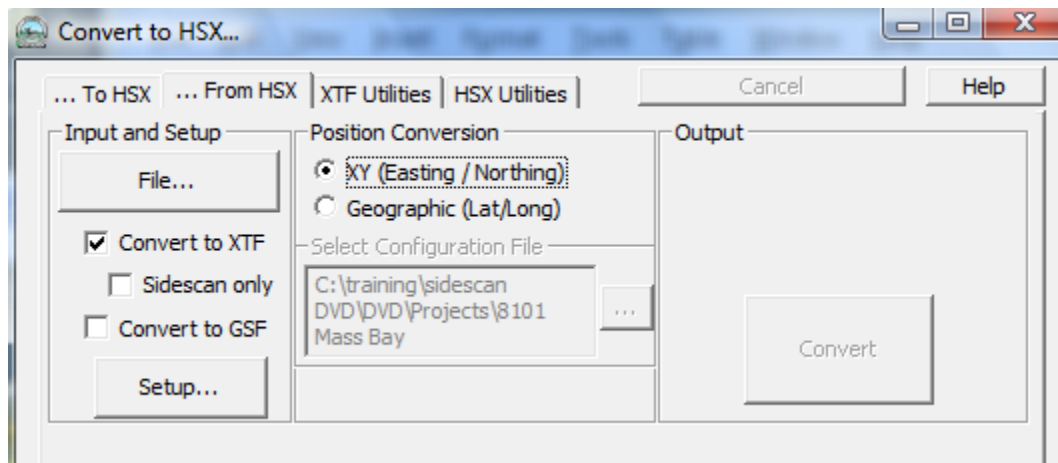
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HYPACK® has the ability to create and use non-HYPACK® standard file types.

HSX files are created by HYSWEEP® and HYSCAN. They contain multibeam and side scan data. Outside of HYPACK®, these files are not very useful, and some conversion must be done.

In the HSX Converter, we have added an option to create XTF files and GSF files from these logged HSX data files.

To generate an XTF file, use the '… from HSX' tab. There will be 2 choices for generating XTF files; one that contains all the data, and another that will parse out the HSX information of only side scan data. The second option is useful when the file is populated with multibeam and side scan data, and the desired output requires only side scan data.

FIGURE 1. HSX Converter

(**Note:** A little trick to making just a XTF file with bathymetry: Use the HSX tools, and split the original file into two – one holding multibeam information, the other side scan information. You can then convert that new HSX file to XTF, resulting in a multibeam, XTF-only file.)

The GSF file creation will do a similar conversion, making GSF files from logged HSX files.

In both outputs, you can define the Position field. In the HSX file, positions are stored as Easting and Northing. If the output needs to be Geographic – latitude and longitude-- we call the Geo32.dll to convert the positions back. You need to select the survey32.ini or project.ini to set the geodesy settings.