



The HYPACK® Interface List Grows

By Harold Orlinsky

With the release of HYPACK® 2013, you would think the programmers would take a few moments off, put their feet up and relax, after putting in a tremendous effort in the latest version of HYPACK®. As we've seen articles through the past few months on program updates, features and enhancements, all part of the HYPACK® 2013.

But, as soon as the software was shipped off to the CD presses, program changes started. All these changes are posted on the HYPACK web page, for folks to download and use.

New to HYSWEEP® HARDWARE:

- **Kongsberg 2040 dual head (2040D) and the Compact version (2040C):** Data collection for these systems for both raw range/angle and depth datagram are in place in HYSWEEP®. The options in the driver allow you to select which datagram will be read and stored in the HSX file. Additionally, MBMAX64 (64-bit HYSWEEP® EDITOR) and the HSXConverter can handle the ALL datagrams from these systems, for data processing. Dave Maddock worked on these interfaces and adjustments to the MBMAX64 program.
- **Imagenex DT100 SIR multibeam** is a new system manufactured by Imagenex. Mike Kalmbach spent a few days with the folks in Vancouver to get this driver completed.
- **Odom MB1 dual head:** HYSWEEP® added the dual head option for the MB1 system. Mike traveled, again, to the west coast to get this interface done, working with the folks at RDI in San Diego on their vessel.

As with all the interfaces in HYSWEEP® HARDWARE, no additional interface modules are needed to run these new systems. With a HYSWEEP® license, all of these sonars are available to use for data acquisition and processing.

Throughout the year, we will continue to add to the driver list, and the HYSWEEP® program will be updated to include all of them. The hardware list is included in the program called HYSWEEP® HARDWARE (swpware.exe) and the data acquisition program for multibeam data is HYSWEEP® SURVEY (hysweep.exe). You will always find these two updated together when there is a new release, updating the version number for both programs.

Tech note for Importing Kongsberg ALL Files: The Geodesy must be set correctly in HYPACK® in order for MBMAX64 to properly handle the navigation information from the Kongsberg ALL file. This is due to the fact that the ALL files have navigation stored as Latitude and Longitude. During the import in MBMAX64, the conversion to the easting and northing takes place. This process uses the geodesy values set in the project. So, if you have an ALL file collected in California, don't run the Halifax project and launch the MBMAX64 program. The positions will be off by about 4000 miles.

(This is the same for importing XTF files in HYSCAN (SIDE SCAN TARGETING AND MOSAICKING) for side scan processing.)

Ensure your geodesy is set to the correct zone before running these programs and processing the data.