



Get on the Cutting Edge with HYPACK® 2015

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After months of development and testing, **HYPACK® 2015** will be introduced at our HYPACK Training Event—in January 2015 in San Antonio, TX—and available for download from our website soon after that. We are very excited about this new version.

As leader in the hydrographic and dredging industry, this release demonstrates our commitment to provide our customers with the cutting-edge features and tools that give them an ongoing competitive advantage as new equipment and technologies become available.

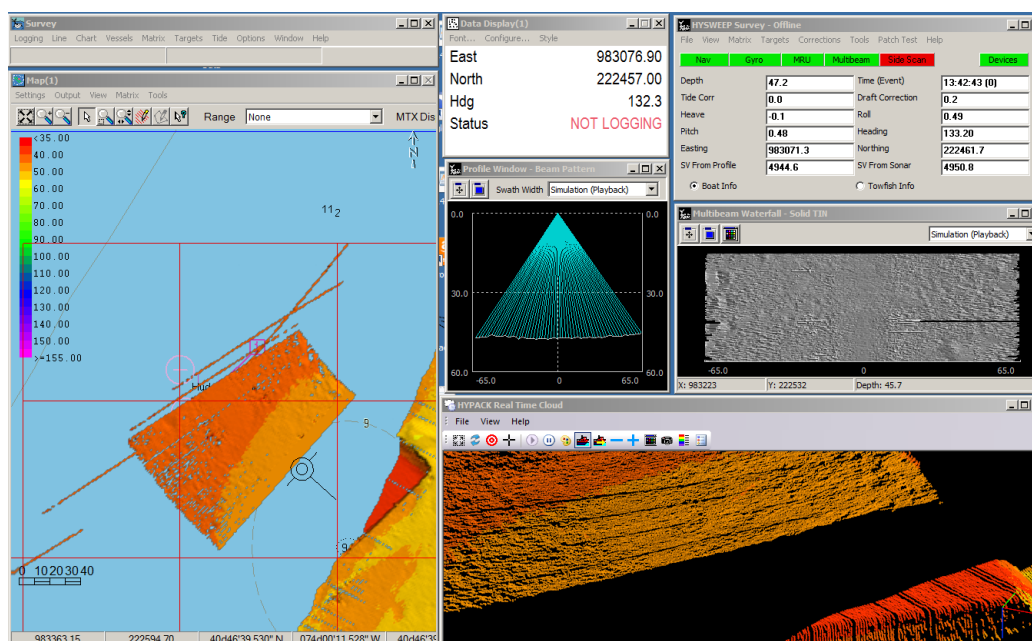
The new release of HYPACK® 2015 software offers users cutting-edge technology including Real-time Point Cloud visualization, and multibeam and water column data integration and playback. It gives surveyors more quality control tools to achieve more accurate results in significantly less time, thereby reducing costs while maximizing production.

The ongoing theme in HYPACK® 2015 seems to be “cutting edge” and the major enhancements HYPACK® 2015 includes.

HYSWEEP®: SIMULATION (PLAYBACK)

Use the HYSWEEP® Simulation (Playback) driver to replay a *.LOG of *.HSX files back through the program. The HYPACK® HYSWEEP Playback driver reads positions from the same file. This allows you to replay your surveys to review your data and present any results to potential customers.

FIGURE 1. HYSWEEP® Simulation

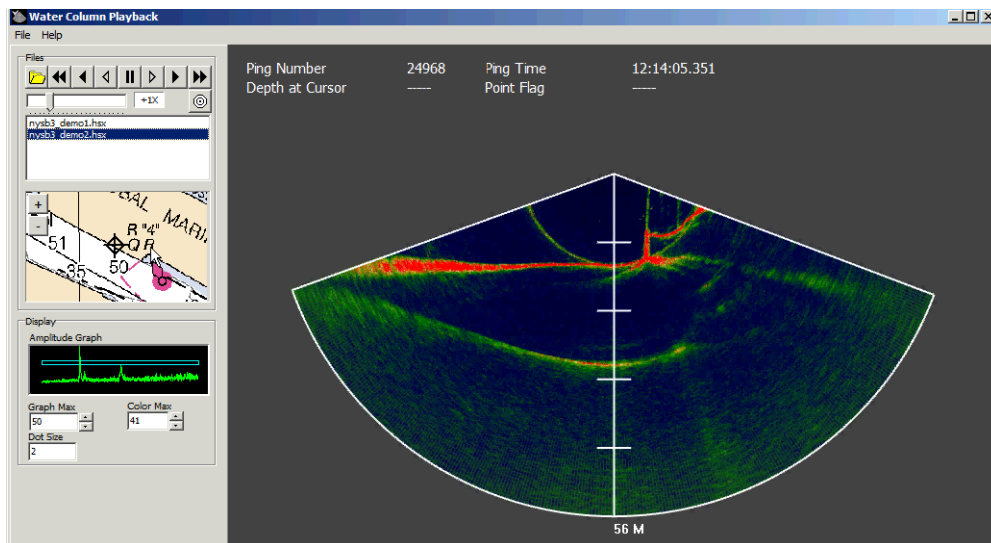


WATER COLUMN INTEGRATION

The HYSWEEP® Water Column logger is a new program that collects and logs the massive amounts of water column data from Reson 71xx and R2Sonic. Review the data in the WATER COLUMN PLAYBACK program and incorporate the data in your MBMAX-64 (64-bit HYSWEEP® EDITOR) editing sessions.

HYSWEEP® Water Column will be a standard module in HYSWEEP® and enhancing its already powerful multibeam and backscatter collection capabilities.

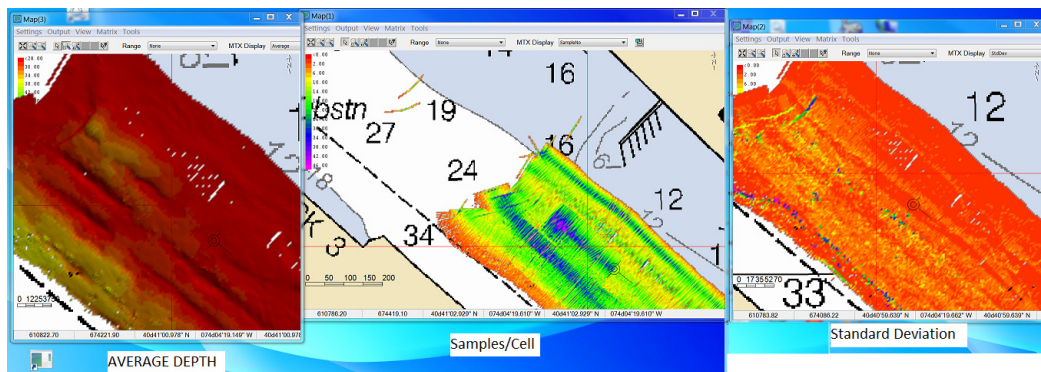
FIGURE 2. HYSWEEP® Water Column Playback



SURVEY: ENHANCED MTX DISPLAY

HYPACK® 2015 will allow you to create simultaneous Map Windows with different Matrix views to display the depth information, the number of samples, the standard deviation per cell, or the average depth per cell. Also the virtual light and shading of the matrix is now done 100% of the time—not just on MTX redraws.

FIGURE 3. Sample Matrix Displays in HYPACK® SURVEY—Average Depth (left), Samples per Cell (center), Standard Deviation (right)



REAL-TIME POINT CLOUD

The new Real-time Point Cloud program runs in conjunction with HYSWEEP® SURVEY and displays both multibeam and topographic laser data in a corrected and geo-referenced, color-coded point cloud.

The REAL-TIME POINT CLOUD program will be useful for easier feature detection and categorization, system calibration and verification, and data quality control. This program enhances the already powerful multibeam and LIDAR collection capabilities of HYSWEEP®.

FIGURE 4. Real-time Point Cloud in SURVEY

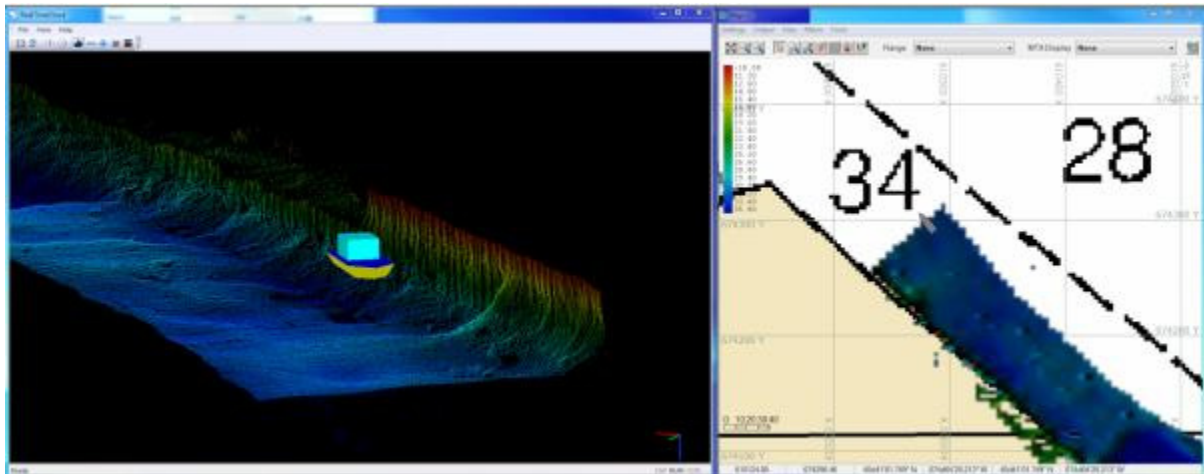
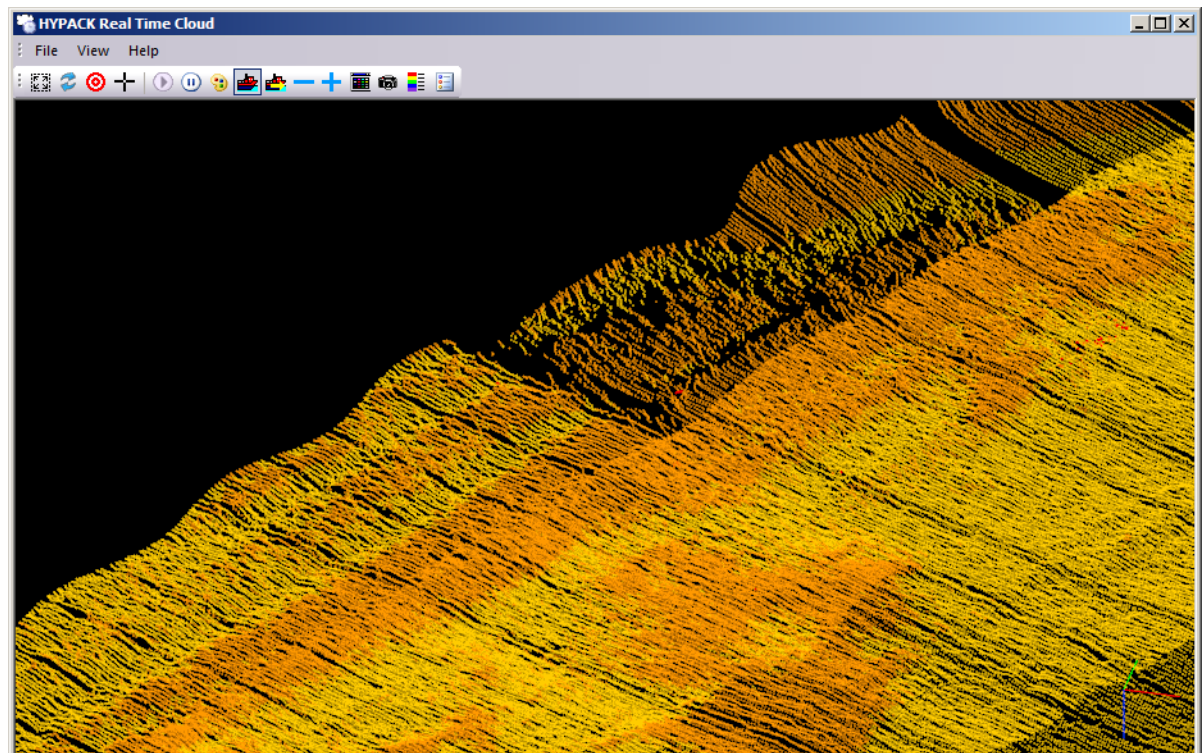


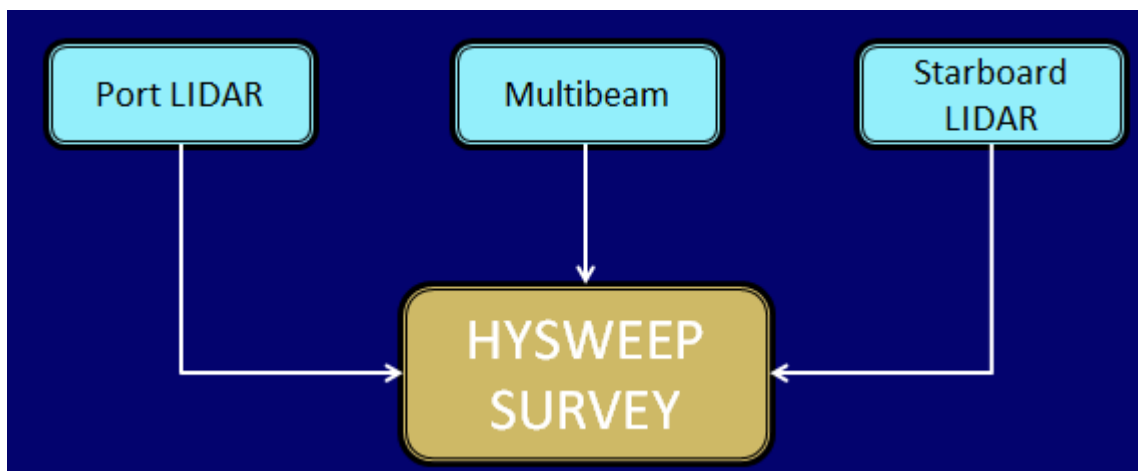
FIGURE 5. Real-time Point Cloud



HYSWEEP® SURVEY: MULTIPLE SYSTEMS

In HYPACK® 2014 and previous versions, HYSWEEP® SURVEY was limited to interfacing to single multibeam and LIDAR systems. In HYPACK® 2015, HYSWEEP® SURVEY can handle multiple combinations of multibeam and/or topographic LIDAR systems. This will allow you to run several systems simultaneously.

FIGURE 6. *Multiple HYSWEEP® Systems Logged Simultaneously*



NEW SURVEY DEVICES

All of these interfaces will be included in HYPACK® 2015 for all our customers to use without any additional cost.

- **SBG Ekinox Series Motion Sensor**



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- **Sonartech**



- **Tritech Gemini Imaging Sonar**



- **Imagenex profiling sonar 881A**



HIGH TECH GADGETS:

For those users interested in high tech gadgets, here few toys you can use with HYPACK 2015:

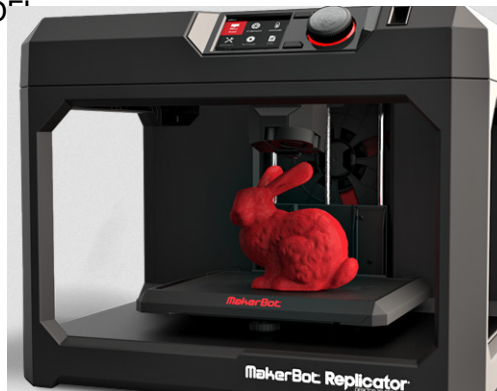
- **3D Mouse** integration in CLOUD & MBMAX-64



- **Google Glass Helmsman Display:** Displays helmsman information, including left/right indicator, DTG and On-Line/Off-Line status.



- **3D Printing:** Both TIN MODEL and ADVANCED CHANNEL DESIGN can output their 3D surfaces to STL format that is used in 3D printing applications



- **GoPro Cameras:** Device drive GoPro_Capture.DLL captures BMP files at a user-defined time interval.



Going Greener: **HYPACK® 2015 release** will be available for download from our website only. We will still have HYPACK 2015 CDs available for those customers with slow and limited Internet access.

Users subscribed to our HYPACK Maintenance Plan will be able to install and run HYPACK® 2015 immediately after the release. For additional information on HYPACK® you can visit www.hypack.com or contact sales@hypack.com. To check your Maintenance Plan status or to renew it, please contact mp@hypack.com.