



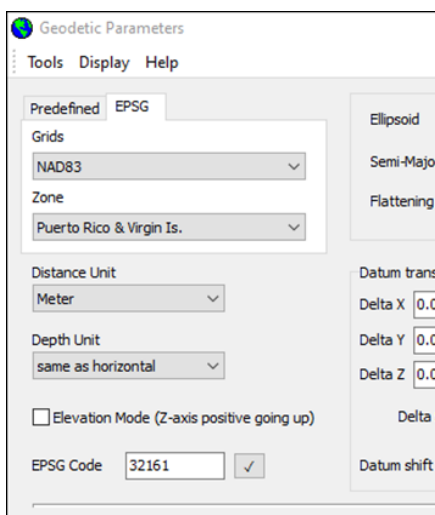
HYPACK 2021 Q3 RELEASE NOTES

BY JOHN LINDBERG

This highlights some of the new features available in our HYPACK 2021 third quarter update. It is available to any user currently on the maintenance plan.

GEODETIC PARAMETERS

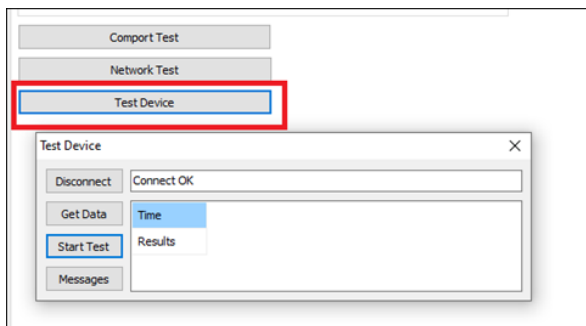
- Added option to select geodesy by entering ESPG codes.



- Geoid model for France (RAF20.geo).

HARDWARE

- Test Device button in Hardware for multibeam and sidescan devices



- Double click on a device to pop up the setup window (for Survey, MB, and SS devices)

DEVICE DRIVERS

- Add support for VectorNav INS.
- NOAA Online Tide Reader

NOAA Online Tide Reader

Item	Value
Information	
NOAA Station ID	8465705
Datum	Mean Tide Level
Units	English
Time Zone	Local Standard/Local Dayl
☐ Invert Tide To HYPACK	
☒ Offset Tide Reading	0.00
☐ Use NOAA Time	

- o Added tide offset.
- o Added a checkbox to use NOAA time. The default is Veritime.
- NOAAWeather driver - fixed dead link
- Generic Cutter DQM Parser - GenCutterDQM.dll - Initial version of GenCutterDQM. This is based on the original GenDevParse with a few additions.

GenDevParse Setup

Settings

Item	Multiplier	Offset
☐ X	1.0	0.0
☐ Y	1.0	0.0
☐ Latitude	1.0	0.0
☐ Direction of Latitude	1.0	0.0
☐ Longitude	1.0	0.0
☐ Direction of Longitude	1.0	0.0
☐ Heading	1.0	0.0
☐ Speed	1.0	0.0
☐ Heave	1.0	0.0
☐ Pitch	1.0	0.0
☐ Roll	1.0	0.0
☐ Depth 1	1.0	0.0
☐ Depth 2	1.0	0.0
☐ Tide	1.0	0.0

Delimiters

☐ Space

☐ Comma

☐ Tab

☐ Other

End of Message

☒ CR LF

☐ Carriage Return CR

☐ Line Feed LF

☐ Other

Message Header

☒ Header is a separate field

Relative

☐ Position

☐ Heading

DQM Data

☒ Send Only Extended Work Data

☐ Send All Work Data

Save Load OK Cancel

HYSWEEP

- Warning if no attitude device installed.

HYSWEEP Survey - Offline

File View Matrix Targets Corrections Tools Patch Test Help

Nav Gyro MRU Multibeam Side Scan Devices

Depth 0.00 Time (Event) 00:00:00.101

Tide Corr 0.00 Error Log

Heave 0.00 New

Pitch 0.00 No MRU Device in Hysweep Hardware

Easting 0.00

SV From Profile 0.0

Boat Info

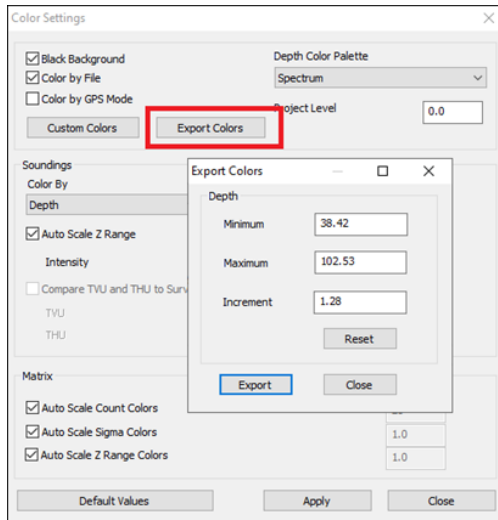
- Updated Leica API, now supports all new (and old) Leica devices.
- VectorNav INS Support
- Velodyne payload driver

MAGNETOMETER EDITING

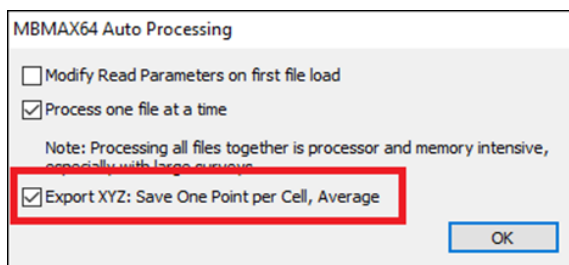
- Support for multi SMI lines

MBMAX64

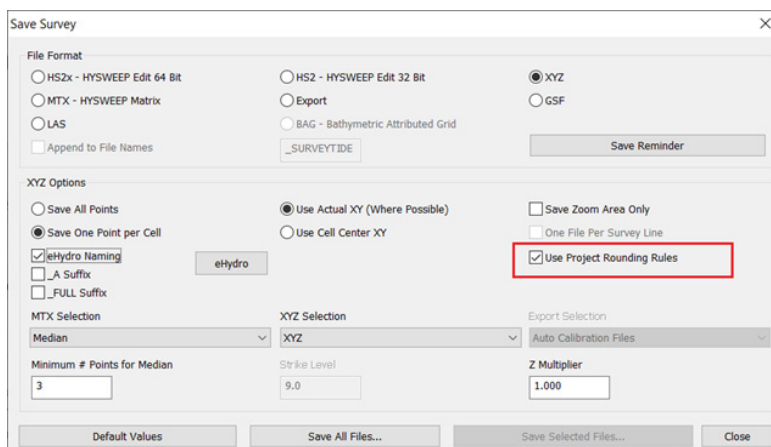
- Improved matrix display speed
- Export colors to HCF



- Reorientation of points in cloud popup from simple north up to arbitrary rotation.
- Updated Matrix class to support the "Last" option. Added to selection list in main window.
- Added Last option to matrix filters and save options.
- New show option = Channel Plan.
- Added option to save to XYZ during auto processing.

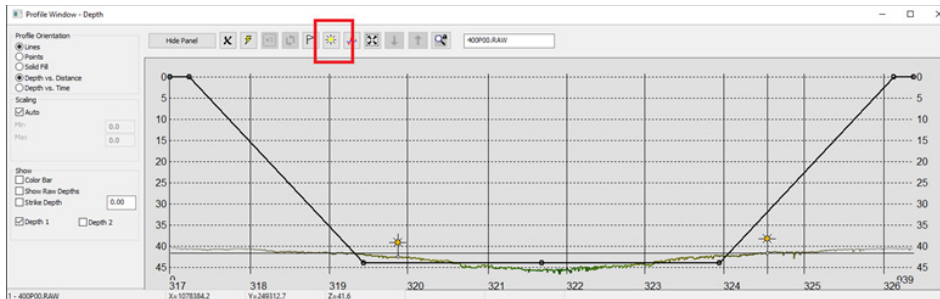


- Added option to save XYZ soundings while using the project's rounding rules.



SBMAX64

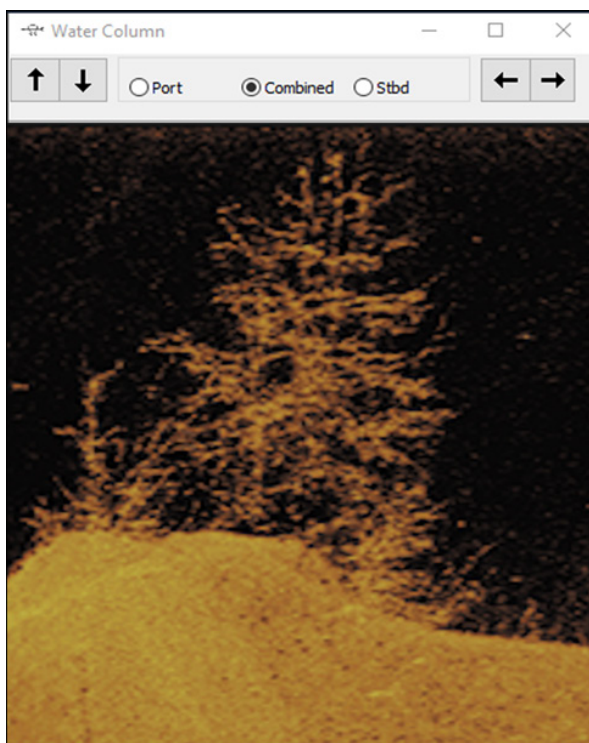
- Added golden soundings button to profile window. They display in the survey window if Flags is checked.



- Improved echogram display
- Improved smoothing
- Better bin file detection with renamed files

SIDE SCAN SURVEY

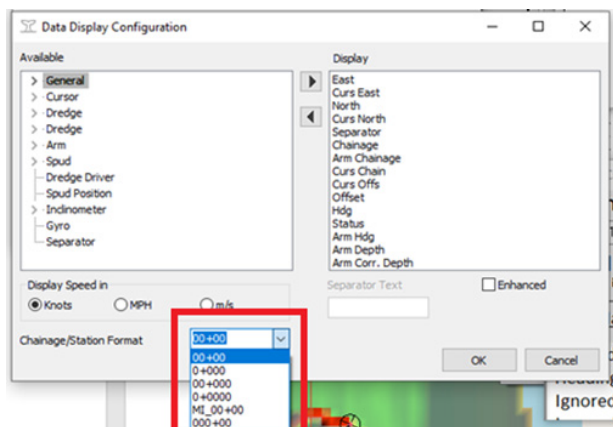
- Removed down sampling for improved waterfall display
- Added arrows to target list box
- New water column display



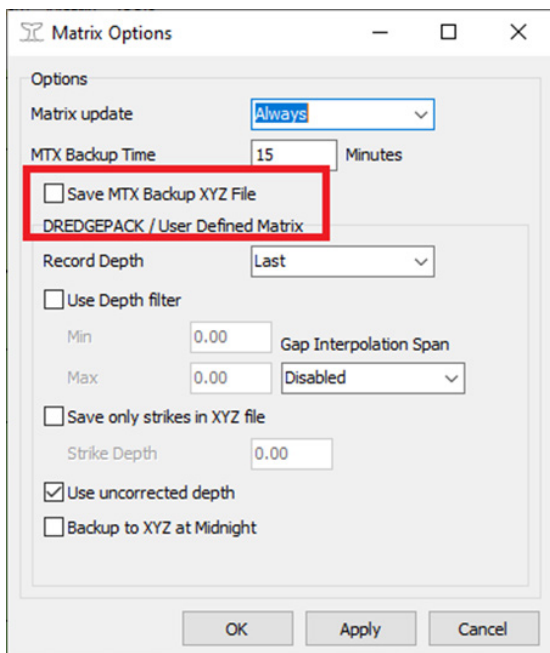
- Support for EdgeTech 4205

SURVEY

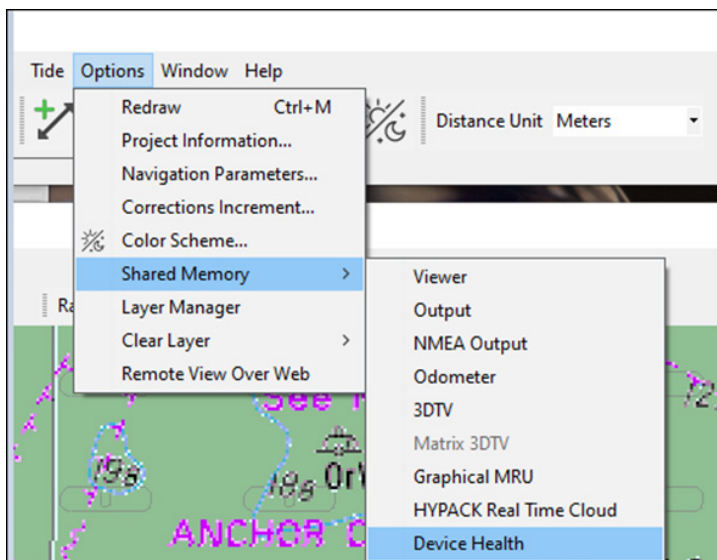
- Improved target selection dialog
- Added chainage Data Display options to Beta Survey.

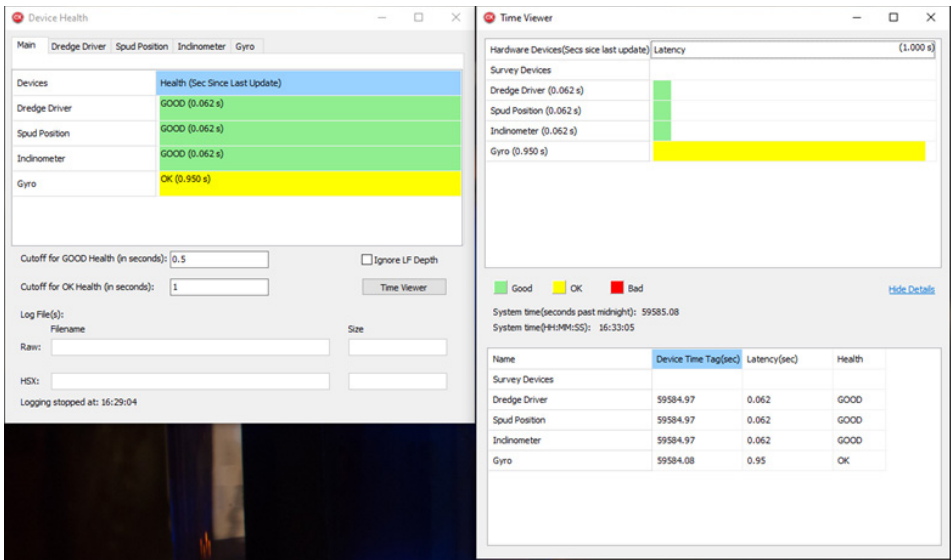


- Save XYZ file from matrix data to Beta Survey.



- New Device Health display. (Beta Survey)





SURVEY LOG

- Added Satellites and HDOP
- Customize header names

The screenshot shows a dialog box titled 'Delete Custom Header Fields'. It contains a table with 'Field Name' and 'Value' columns. To the right of the table are two buttons: 'Add Field' and 'Delete Field'.

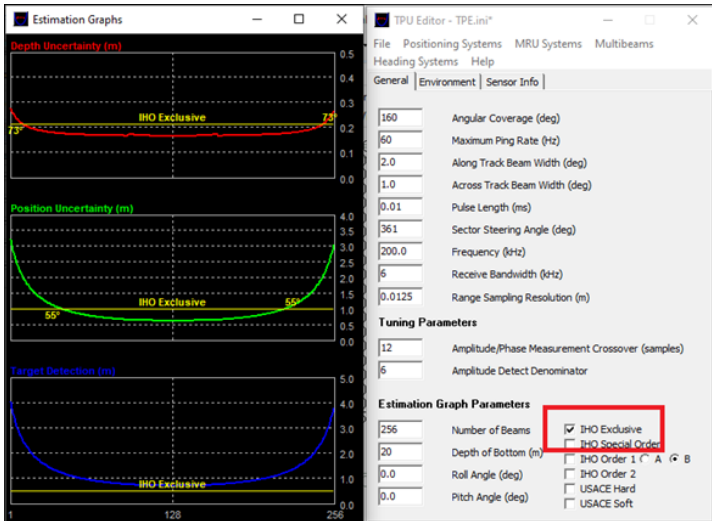
- Option to log targets to memo section

The screenshot shows a window titled 'HYDROGRAPHIC SURVEY LOG SHEET'. It has a menu bar with 'File', 'Preferences', and 'Help'. Below the menu bar is a 'Project Details' section. A checkbox labeled 'Log Targets' is checked and highlighted with a red box.

File Name	Remarks
0008_1457.RAW	TGT: 14:57:23 - 454580.19,4944934.97

TPU EDITOR

- TPU graphs for the latest IHO 'Exclusive' Order



CLOUD

- Toggle off axis and perimeter display

Settings

Rotation

X Axis 292.8

Y Axis 0.0

Z Axis 35.8

Grid

Grid Size 0.00

Font Factor 1.00

Z Axis Ratio 1.0

Point Size 2.0

Background Color 

☒ Show Legend

☐ Show Grid

☐ Continuous Pan/Rotate

☐ Hide Near Points

☒ Hide Axis

Data Limits

	X	Y	Z	Intes.
Min	1180975.8	690861.4	16.0	N/A
Max	1182435.2	692892.4	69.9	N/A

Apply OK Cancel