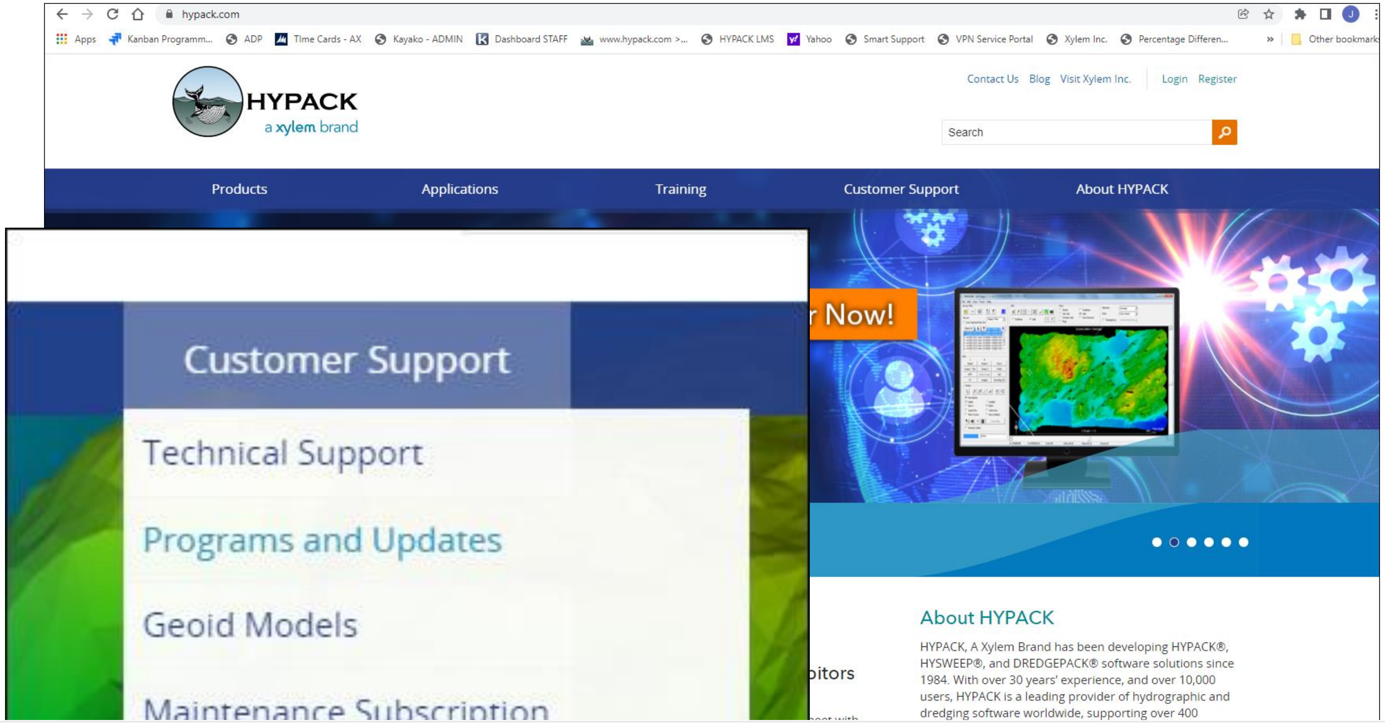
xylem
Let's Solve Water

Qué hay de nuevo en HYPACK 2022

HYPACK 2022 – Evento de Entrenamiento

GENERALIDADES

- Nueva versión en Enero 2023
- Gratis para quienes tienen un MP vigente!
- Descargar de www.hypack.com
- Contiene todas las actualizaciones trimestrales del 2022.
- Cientos de nuevas características, mejoras y soluciones a problemas, etc.


hypack.com
Apps
Kanban Programm...
ADP
Time Cards - AX
Kayako - ADMIN
Dashboard STAFF
www.hypack.com >...
HYPACK LMS
Yahoo
Smart Support
VPN Service Portal
Xylem Inc.
Percentage Differen...
Other bookmarks
HYPACK
a xylem brand
Contact Us
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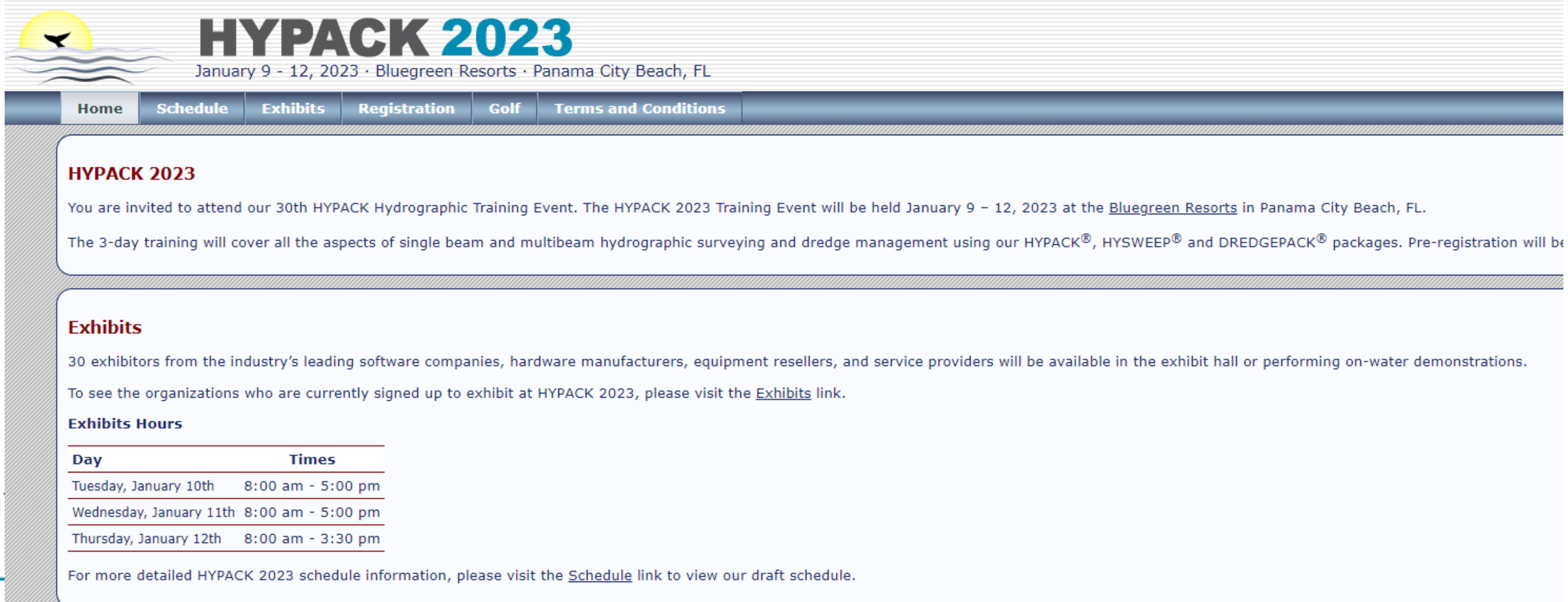
Visit Xylem Inc.
Login
Register
Search
Products
Applications
Training
Customer Support
About HYPACK
Customer Support
Technical Support
Programs and Updates
Geoid Models
Maintenance Subscription
r Now!
bitors

About HYPACK

HYPACK, A Xylem Brand has been developing HYPACK®, HYSWEEP®, and DREDGEPACK® software solutions since 1984. With over 30 years' experience, and over 10,000 users, HYPACK is a leading provider of hydrographic and dredging software worldwide, supporting over 400


HYPACK 2023
January 9 - 12, 2023 · Bluegreen Resorts · Panama City Beach, FL
Home
Schedule
Exhibits
Registration
Golf
Terms and Conditions

HYPACK 2023

You are invited to attend our 30th HYPACK Hydrographic Training Event. The HYPACK 2023 Training Event will be held January 9 – 12, 2023 at the Bluegreen Resorts in Panama City Beach, FL.

The 3-day training will cover all the aspects of single beam and multibeam hydrographic surveying and dredge management using our HYPACK®, HYSWEEP® and DREDGEPACK® packages. Pre-registration will be

Exhibits

30 exhibitors from the industry's leading software companies, hardware manufacturers, equipment resellers, and service providers will be available in the exhibit hall or performing on-water demonstrations.

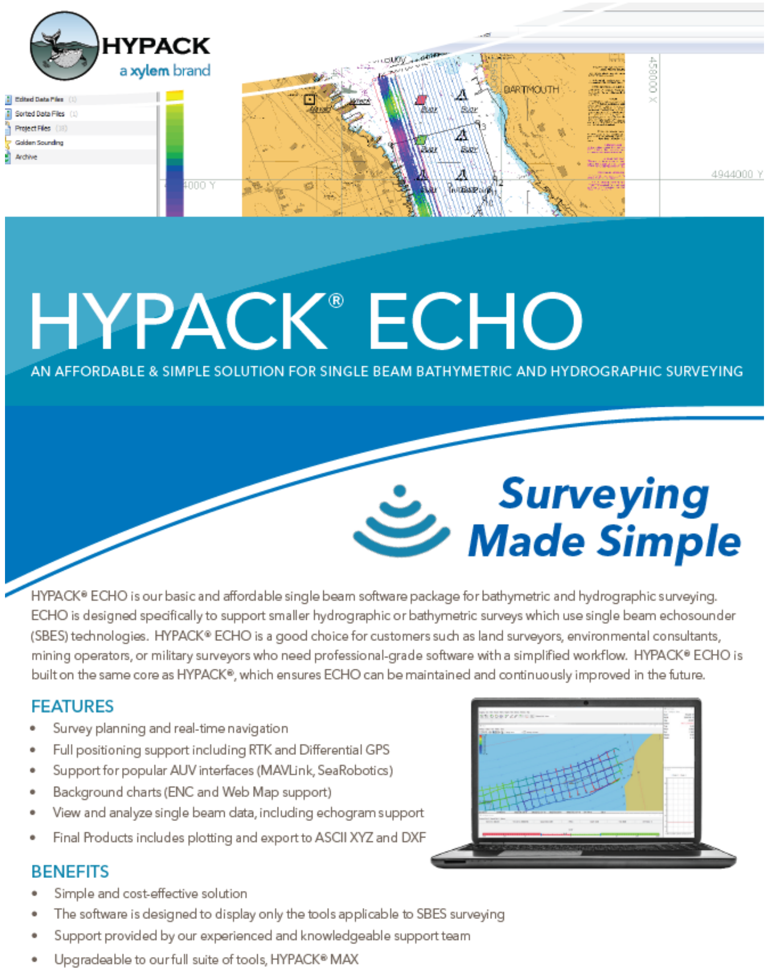
To see the organizations who are currently signed up to exhibit at HYPACK 2023, please visit the Exhibits link.

Exhibits Hours

Day	Times
Tuesday, January 10th	8:00 am - 5:00 pm
Wednesday, January 11th	8:00 am - 5:00 pm
Thursday, January 12th	8:00 am - 3:30 pm

For more detailed HYPACK 2023 schedule information, please visit the Schedule link to view our draft schedule.

PRODUCTOS NUEVOS – Ajustados para cumplir con sus requerimientos de trabajo



HYPACK
a xylem brand

HYPACK® ECHO

AN AFFORDABLE & SIMPLE SOLUTION FOR SINGLE BEAM BATHYMETRIC AND HYDROGRAPHIC SURVEYING

Surveying Made Simple

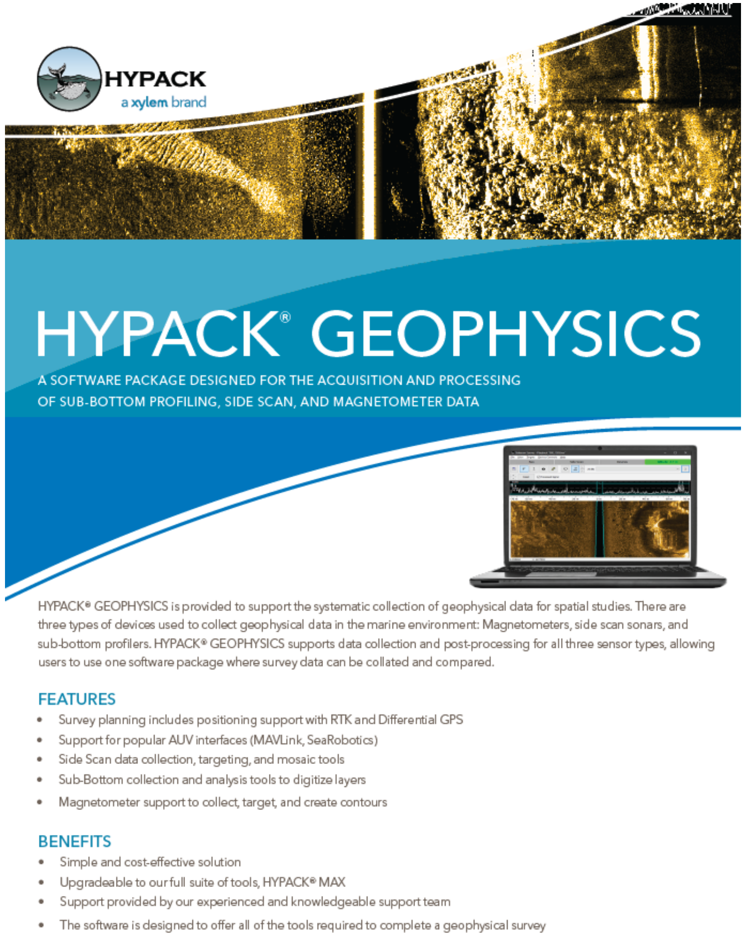
HYPACK® ECHO is our basic and affordable single beam software package for bathymetric and hydrographic surveying. ECHO is designed specifically to support smaller hydrographic or bathymetric surveys which use single beam echosounder (SBES) technologies. HYPACK® ECHO is a good choice for customers such as land surveyors, environmental consultants, mining operators, or military surveyors who need professional-grade software with a simplified workflow. HYPACK® ECHO is built on the same core as HYPACK®, which ensures ECHO can be maintained and continuously improved in the future.

FEATURES

- Survey planning and real-time navigation
- Full positioning support including RTK and Differential GPS
- Support for popular AUV interfaces (MAVLink, SeaRobotics)
- Background charts (ENC and Web Map support)
- View and analyze single beam data, including echogram support
- Final Products includes plotting and export to ASCII XYZ and DXF

BENEFITS

- Simple and cost-effective solution
- The software is designed to display only the tools applicable to SBES surveying
- Support provided by our experienced and knowledgeable support team
- Upgradeable to our full suite of tools, HYPACK® MAX



HYPACK
a xylem brand

HYPACK® GEOPHYSICS

A SOFTWARE PACKAGE DESIGNED FOR THE ACQUISITION AND PROCESSING OF SUB-BOTTOM PROFILING, SIDE SCAN, AND MAGNETOMETER DATA

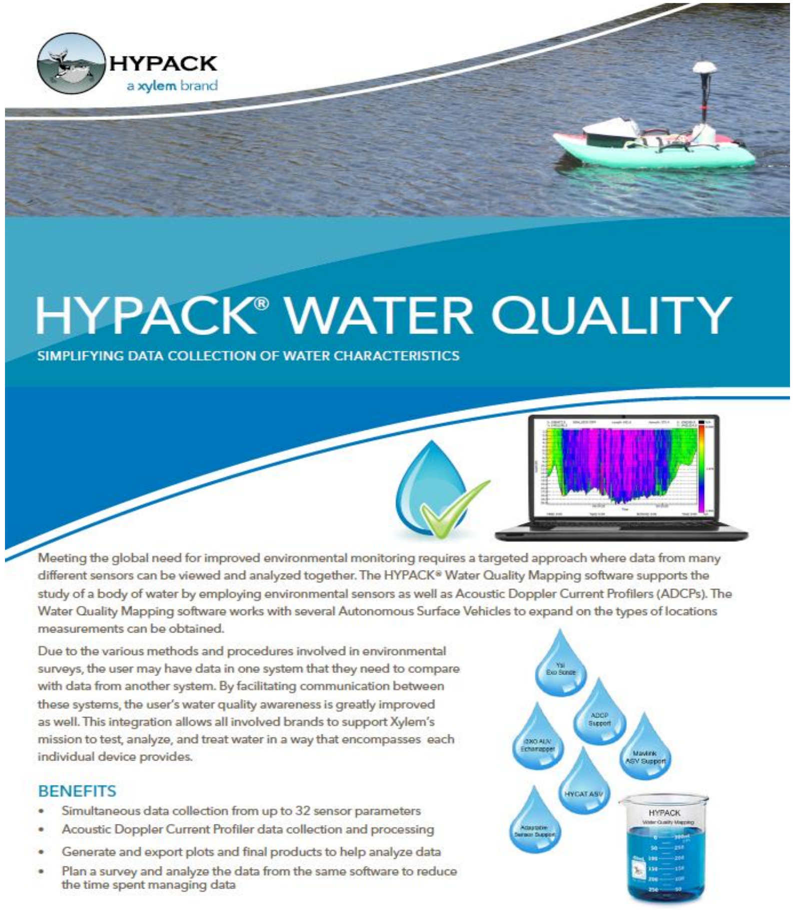
HYPACK® GEOPHYSICS is provided to support the systematic collection of geophysical data for spatial studies. There are three types of devices used to collect geophysical data in the marine environment: Magnetometers, side scan sonars, and sub-bottom profilers. HYPACK® GEOPHYSICS supports data collection and post-processing for all three sensor types, allowing users to use one software package where survey data can be collated and compared.

FEATURES

- Survey planning includes positioning support with RTK and Differential GPS
- Support for popular AUV interfaces (MAVLink, SeaRobotics)
- Side Scan data collection, targeting, and mosaic tools
- Sub-Bottom collection and analysis tools to digitize layers
- Magnetometer support to collect, target, and create contours

BENEFITS

- Simple and cost-effective solution
- Upgradeable to our full suite of tools, HYPACK® MAX
- Support provided by our experienced and knowledgeable support team
- The software is designed to offer all of the tools required to complete a geophysical survey



HYPACK
a xylem brand

HYPACK® WATER QUALITY

SIMPLIFYING DATA COLLECTION OF WATER CHARACTERISTICS

Meeting the global need for improved environmental monitoring requires a targeted approach where data from many different sensors can be viewed and analyzed together. The HYPACK® Water Quality Mapping software supports the study of a body of water by employing environmental sensors as well as Acoustic Doppler Current Profilers (ADCPs). The Water Quality Mapping software works with several Autonomous Surface Vehicles to expand on the types of locations measurements can be obtained.

Due to the various methods and procedures involved in environmental surveys, the user may have data in one system that they need to compare with data from another system. By facilitating communication between these systems, the user's water quality awareness is greatly improved as well. This integration allows all involved brands to support Xylem's mission to test, analyze, and treat water in a way that encompasses each individual device provides.

BENEFITS

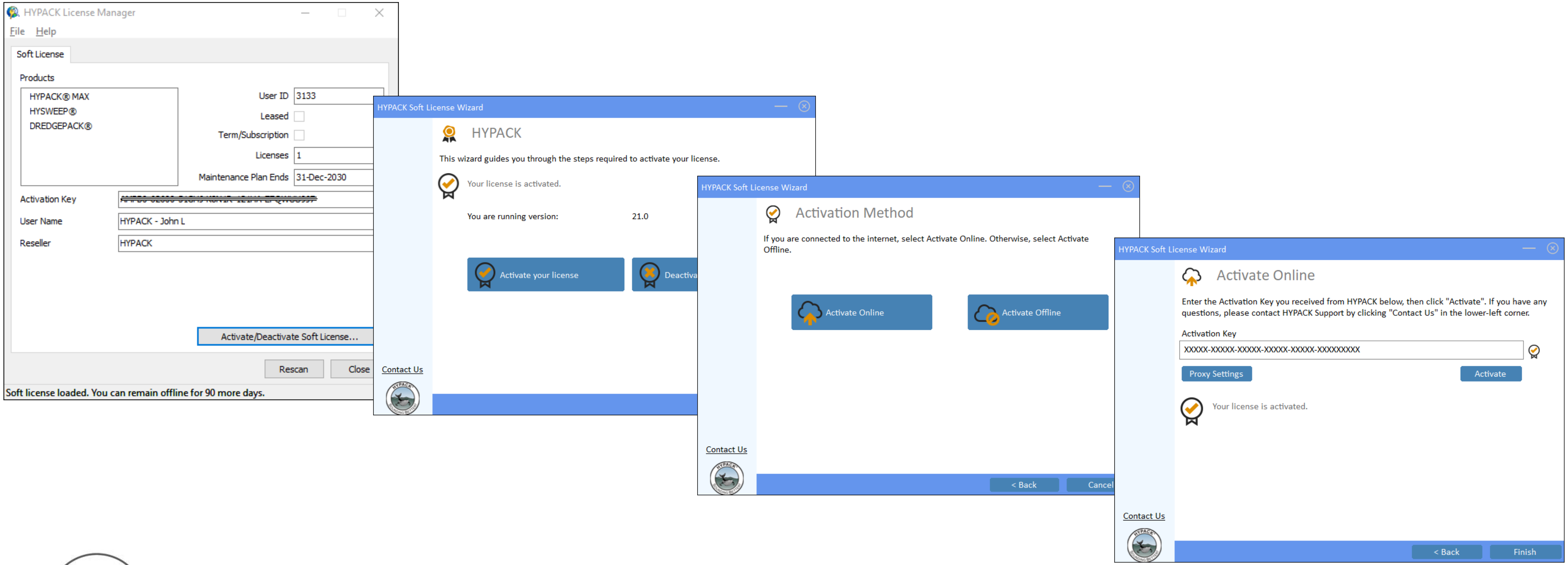
- Simultaneous data collection from up to 32 sensor parameters
- Acoustic Doppler Current Profiler data collection and processing
- Generate and export plots and final products to help analyze data
- Plan a survey and analyze the data from the same software to reduce the time spent managing data

LICENCIA SOFT

- Activación de licencia con base en la Web.
- No requiere llave!
- Fácil transferencia entre computadores, aún en ubicaciones diferentes!

Desventajas

- No soporta permisos de cartas ARCS y S63.
- Una licencia soft rentada no se puede convertir a permanente.


HYPACK License Manager
File
Help
Soft License
Activate/Deactivate Soft License...
Rescan
Close
HYPACK Soft License Wizard
Activate your license
Deactiva
Contact Us
Activate Online
Activate Offline
< Back
Cancel
Proxy Settings
Activate
Finish

Products
HYPACK® MAX
HYSWEEP®
DREDGEPACK®

User ID: 3133
Leased: ☐
Term/Subscription: ☐
Licenses: 1
Maintenance Plan Ends: 31-Dec-2030
Activation Key: [redacted]
User Name: HYPACK - John L
Reseller: HYPACK

Soft license loaded. You can remain offline for 90 more days.

HYPACK

This wizard guides you through the steps required to activate your license.

Your license is activated.

You are running version: 21.0

Activation Method

If you are connected to the internet, select Activate Online. Otherwise, select Activate Offline.

Activate Online

Enter the Activation Key you received from HYPACK below, then click "Activate". If you have any questions, please contact HYPACK Support by clicking "Contact Us" in the lower-left corner.

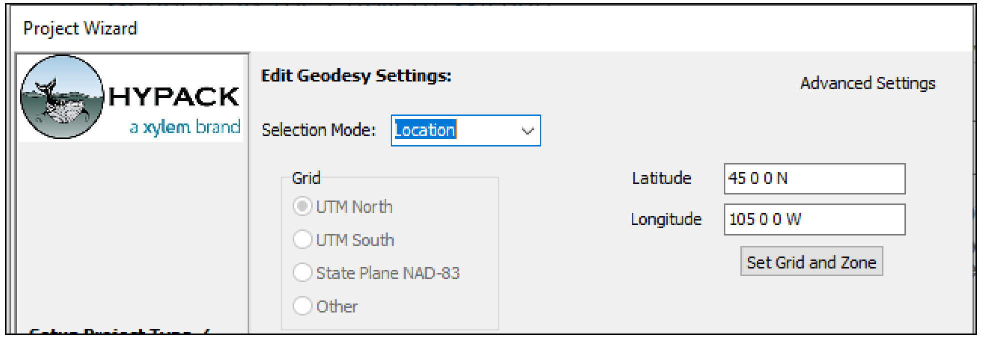
Activation Key: XXXXX-XXXXX-XXXXX-XXXXX-XXXXX-XXXXXXXXX

Your license is activated.

ASISTENTE PROYECTOS

- Seleccione geodesia al entrar la latitud – longitud o hacer clic en un mapa.

- HYPACK seleccionará la zona UTM más cercana.



Project Wizard

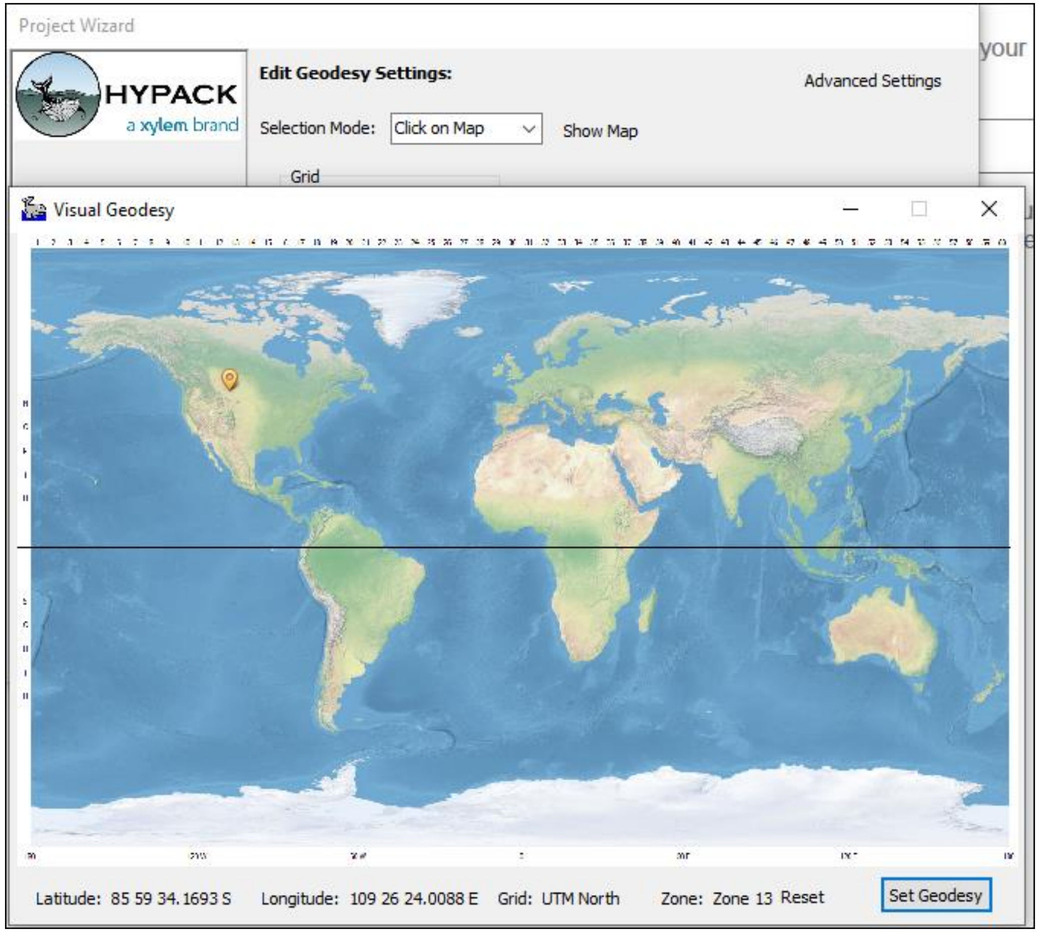
Edit Geodesy Settings:

Selection Mode: Location

Grid
● UTM North
○ UTM South
○ State Plane NAD-83
○ Other

Latitude: 45 0 0 N
Longitude: 105 0 0 W

HYPACK
a xylem brand
Advanced Settings
Set Grid and Zone



Project Wizard

Edit Geodesy Settings:

Selection Mode: Click on Map

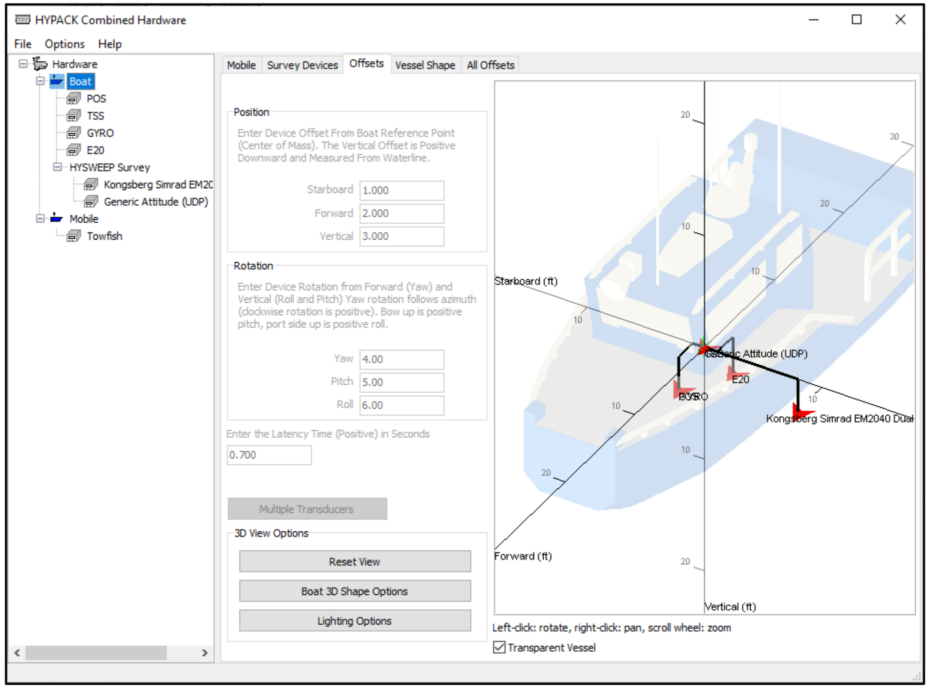
Visual Geodesy

Latitude: 85 59 34.1693 S Longitude: 109 26 24.0088 E Grid: UTM North Zone: Zone 13

HYPACK
a xylem brand
Advanced Settings
Show Map
Grid
Reset
Set Geodesy

Equipos 3D

- Presentación 3D de la embarcacion y los ófsets
- Vista de todos los ófsets en una página
- Mover dispositivos de un móvil a otro


HYPACK Combined Hardware
File
Options
Help
Hardware
Boat
POS
TSS
GYRO
E20
HYSWEEP Survey
Kongsberg Simrad EM20
Generic Attitude (UDP)
Mobile
Towfish
Mobile
Survey Devices
Offsets
Vessel Shape
All Offsets
Multiple Transducers
3D View Options
Reset View
Boat 3D Shape Options
Lighting Options
Starboard (ft)
Forward (ft)
Vertical (ft)
Generic Attitude (UDP)
E20
GYRO
Kongsberg Simrad EM2040 Dual
10
20
30

Position

Enter Device Offset From Boat Reference Point (Center of Mass). The Vertical Offset is Positive Downward and Measured From Waterline.

Starboard 1.000
Forward 2.000
Vertical 3.000

Rotation

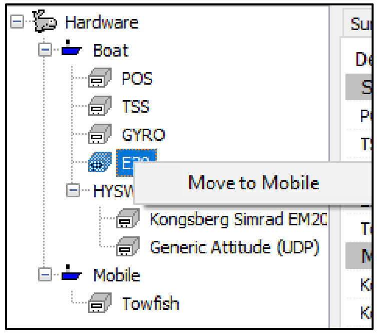
Enter Device Rotation from Forward (Yaw) and Vertical (Roll and Pitch) Yaw rotation follows azimuth (clockwise rotation is positive). Bow up is positive pitch, port side up is positive roll.

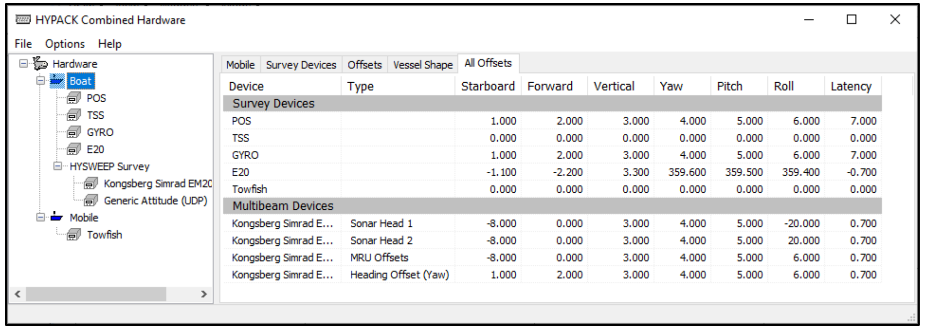
Yaw 4.00
Pitch 5.00
Roll 6.00

Enter the Latency Time (Positive) in Seconds
0.700

Left-click: rotate, right-click: pan, scroll wheel: zoom

☑ Transparent Vessel

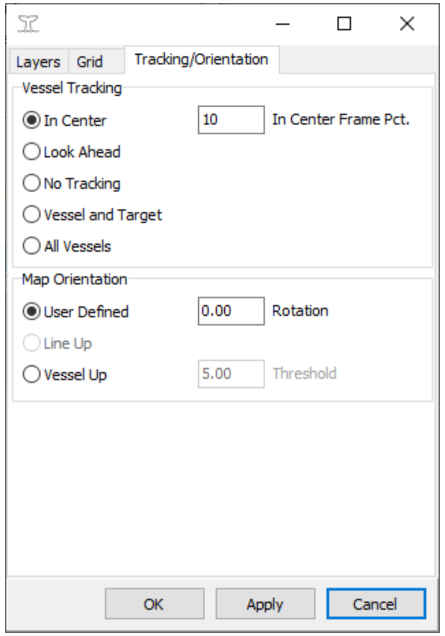

Hardware
Boat
POS
TSS
GYRO
E20
HYSW
Move to Mobile
Kongsberg Simrad EM20
Generic Attitude (UDP)
Mobile
Towfish


HYPACK Combined Hardware
File
Options
Help
Hardware
Boat
POS
TSS
GYRO
E20
HYSWEEP Survey
Kongsberg Simrad EM20
Generic Attitude (UDP)
Mobile
Towfish
Mobile
Survey Devices
Offsets
Vessel Shape
All Offsets

Device	Type	Starboard	Forward	Vertical	Yaw	Pitch	Roll	Latency
Survey Devices								
POS		1.000	2.000	3.000	4.000	5.000	6.000	7.000
TSS		0.000	0.000	0.000	0.000	0.000	0.000	0.000
GYRO		1.000	2.000	3.000	4.000	5.000	6.000	7.000
E20		-1.100	-2.200	3.300	359.600	359.500	359.400	-0.700
Towfish		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Multibeam Devices								
Kongsberg Simrad E...	Sonar Head 1	-8.000	0.000	3.000	4.000	5.000	-20.000	0.700
Kongsberg Simrad E...	Sonar Head 2	-8.000	0.000	3.000	4.000	5.000	20.000	0.700
Kongsberg Simrad E...	MRU Offsets	-8.000	0.000	3.000	4.000	5.000	6.000	0.700
Kongsberg Simrad E...	Heading Offset (Yaw)	1.000	2.000	3.000	4.000	5.000	6.000	0.700

LEVANTAMIENTO

- Nuevo código base!
- Mismas funcionalidades.
- Iconos actualizados.
- Más confiable.
- Más fácil de actualizar con nuevas funciones.

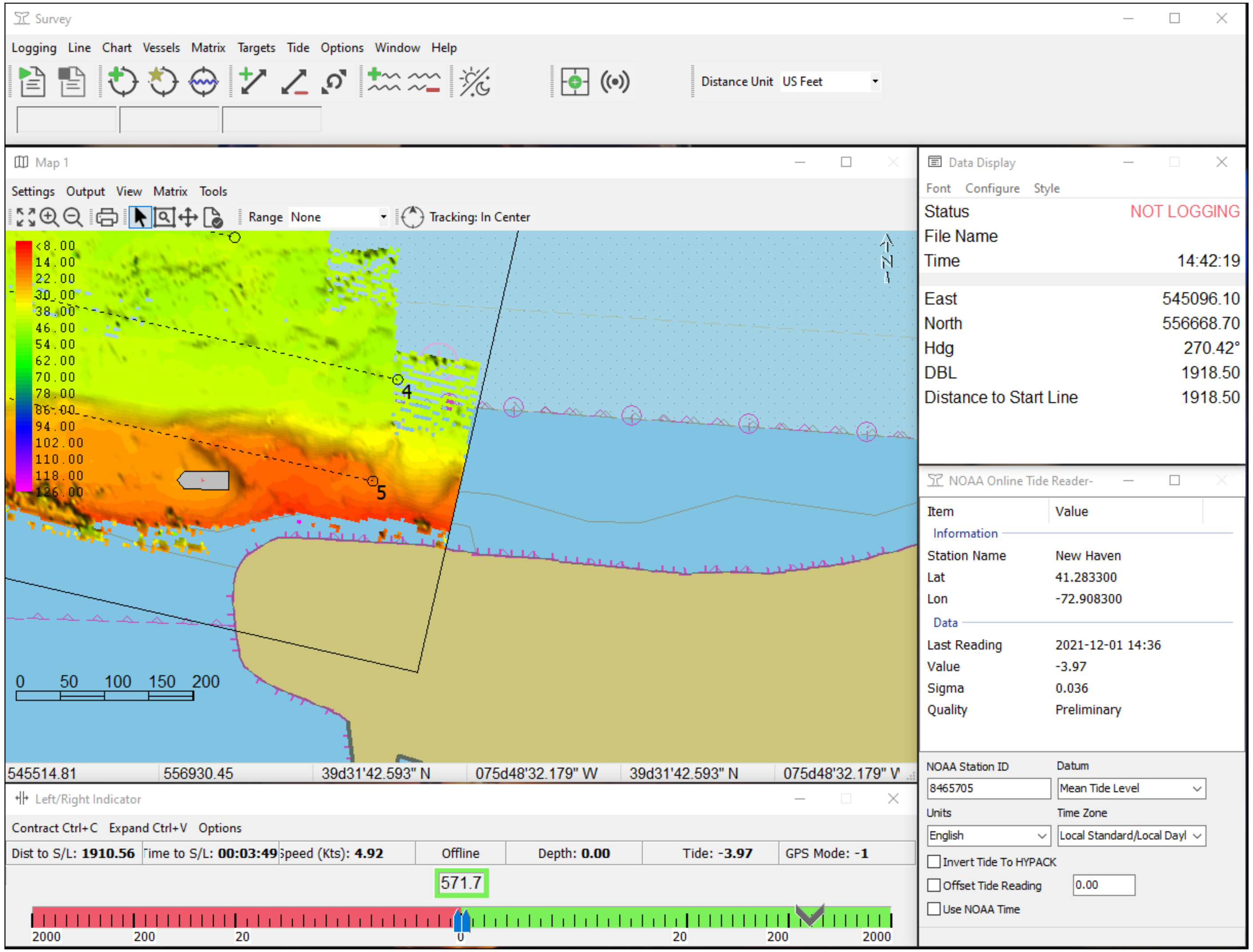

Layers
Grid
Tracking/Orientation
OK
Apply
Cancel

Vessel Tracking

● In Center — 10 In Center Frame Pct.
○ Look Ahead
○ No Tracking
○ Vessel and Target
○ All Vessels

Map Orientation

● User Defined — 0.00 Rotation
○ Line Up
○ Vessel Up — 5.00 Threshold


Survey
Logging
Line
Chart
Vessels
Matrix
Targets
Tide
Options
Window
Help
Map 1
Settings
Output
View
Matrix
Tools
<8.00
14.00
22.00
30.00
38.00
46.00
54.00
62.00
70.00
78.00
86.00
94.00
102.00
110.00
118.00
126.00
4
5
N
0
50
100
150
200
Data Display
Font
Configure
Style
NOAA Online Tide Reader-
Left/Right Indicator
Contract Ctrl+C
Expand Ctrl+V
Options
2000
200
20
0
20
200
2000

Distance Unit: US Feet

Range: None

Tracking: In Center

Status	NOT LOGGING
File Name	
Time	14:42:19
East	545096.10
North	556668.70
Hdg	270.42°
DBL	1918.50
Distance to Start Line	1918.50

545514.81 | 556930.45 | 39d31'42.593" N | 075d48'32.179" W | 39d31'42.593" N | 075d48'32.179" V

Item	Value
Information	
Station Name	New Haven
Lat	41.283300
Lon	-72.908300
Data	
Last Reading	2021-12-01 14:36
Value	-3.97
Sigma	0.036
Quality	Preliminary

NOAA Station ID: 8465705

Datum: Mean Tide Level

Units: English

Time Zone: Local Standard/Local Dayl

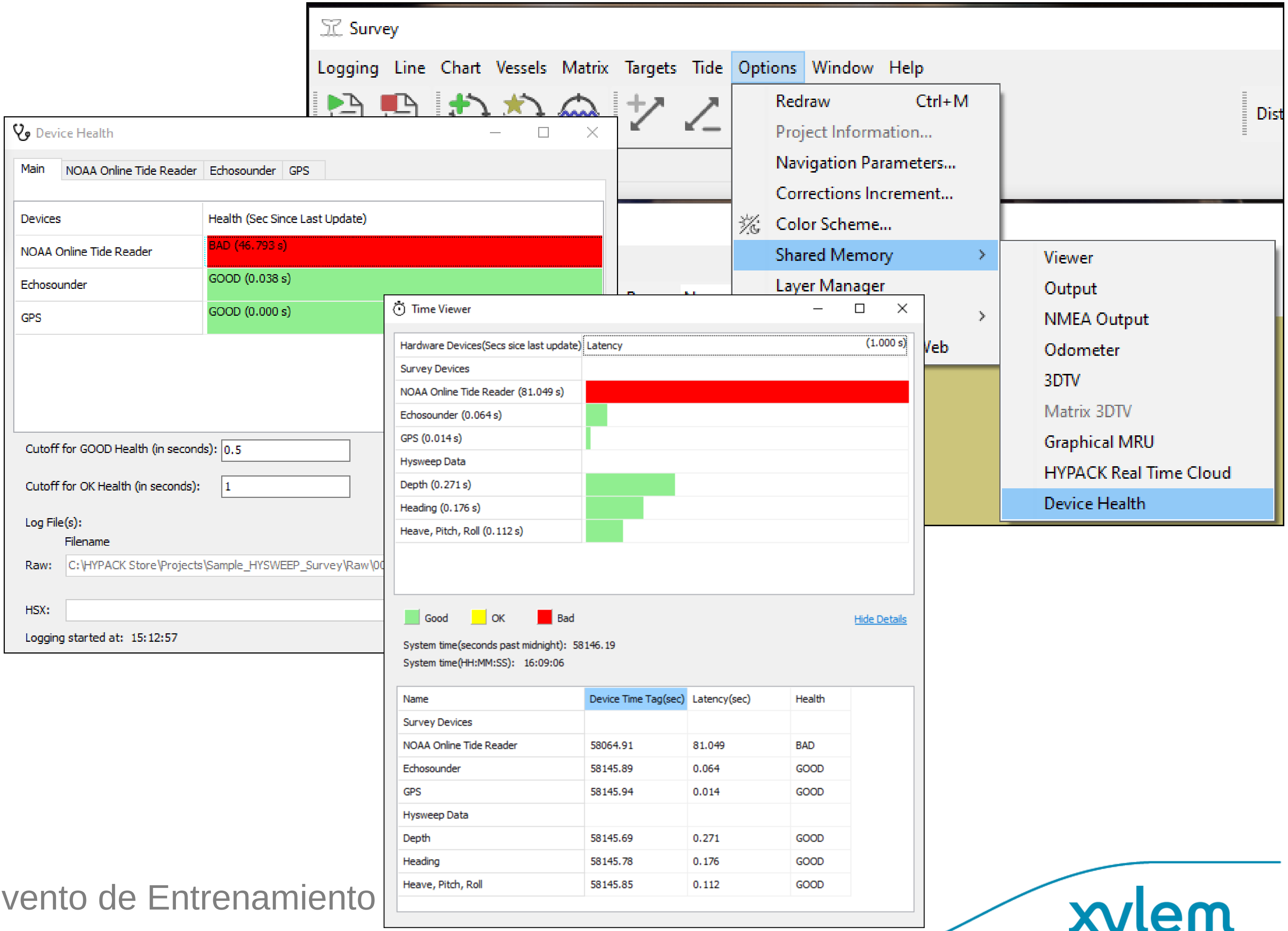
☐ Invert Tide To HYPACK
☐ Offset Tide Reading 0.00
☐ Use NOAA Time

Dist to S/L: **1910.56** | Time to S/L: **00:03:49** | Speed (Kts): **4.92** | Offline | Depth: **0.00** | Tide: **-3.97** | GPS Mode: **-1**

571.7

LEVANTAMIENTO – Salud Dispositivo

- Se inicia desde el programa Levantamiento
- Traquea el tiempo desde HYPACK, HYSWEEP y equipos de Sonar de Barrido Lateral.
- Indicadores de Advertencia con base en colores.
- Traquea grabado de archivos y su tamaño.


Survey
Logging
Line
Chart
Vessels
Matrix
Targets
Tide
Options
Window
Help
Dist
Redraw
Ctrl+M
Project Information...
Navigation Parameters...
Corrections Increment...
Color Scheme...
Shared Memory
Layer Manager
Web
Viewer
Output
NMEA Output
Odometer
3DTV
Matrix 3DTV
Graphical MRU
HYPACK Real Time Cloud
Device Health
Device Health
Main
NOAA Online Tide Reader
Echosounder
GPS
Time Viewer
Hide Details

Devices	Health (Sec Since Last Update)
NOAA Online Tide Reader	BAD (46.793 s)
Echosounder	GOOD (0.038 s)
GPS	GOOD (0.000 s)

Cutoff for GOOD Health (in seconds): 0.5

Cutoff for OK Health (in seconds): 1

Log File(s):

Filename

Raw: C:\HYPACK Store\Projects\Sample_HYSWEEP_Survey\Raw\0

HSX:

Logging started at: 15:12:57

Hardware Devices(Secs sice last update)	Latency (1.000 s)
Survey Devices	
NOAA Online Tide Reader (81.049 s)	🟥
Echosounder (0.064 s)	🟩
GPS (0.014 s)	🟩
Hysweep Data	
Depth (0.271 s)	🟩
Heading (0.176 s)	🟩
Heave, Pitch, Roll (0.112 s)	🟩

🟩 Good 🟨 OK 🟥 Bad

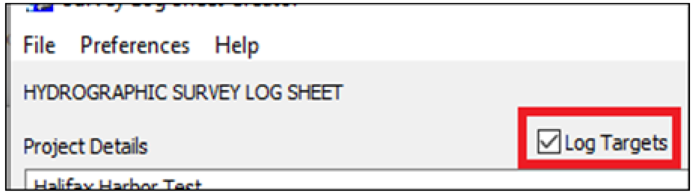
System time(seconds past midnight): 58146.19

System time(HH:MM:SS): 16:09:06

Name	Device Time Tag(sec)	Latency(sec)	Health
Survey Devices			
NOAA Online Tide Reader	58064.91	81.049	BAD
Echosounder	58145.89	0.064	GOOD
GPS	58145.94	0.014	GOOD
Hysweep Data			
Depth	58145.69	0.271	GOOD
Heading	58145.78	0.176	GOOD
Heave, Pitch, Roll	58145.85	0.112	GOOD

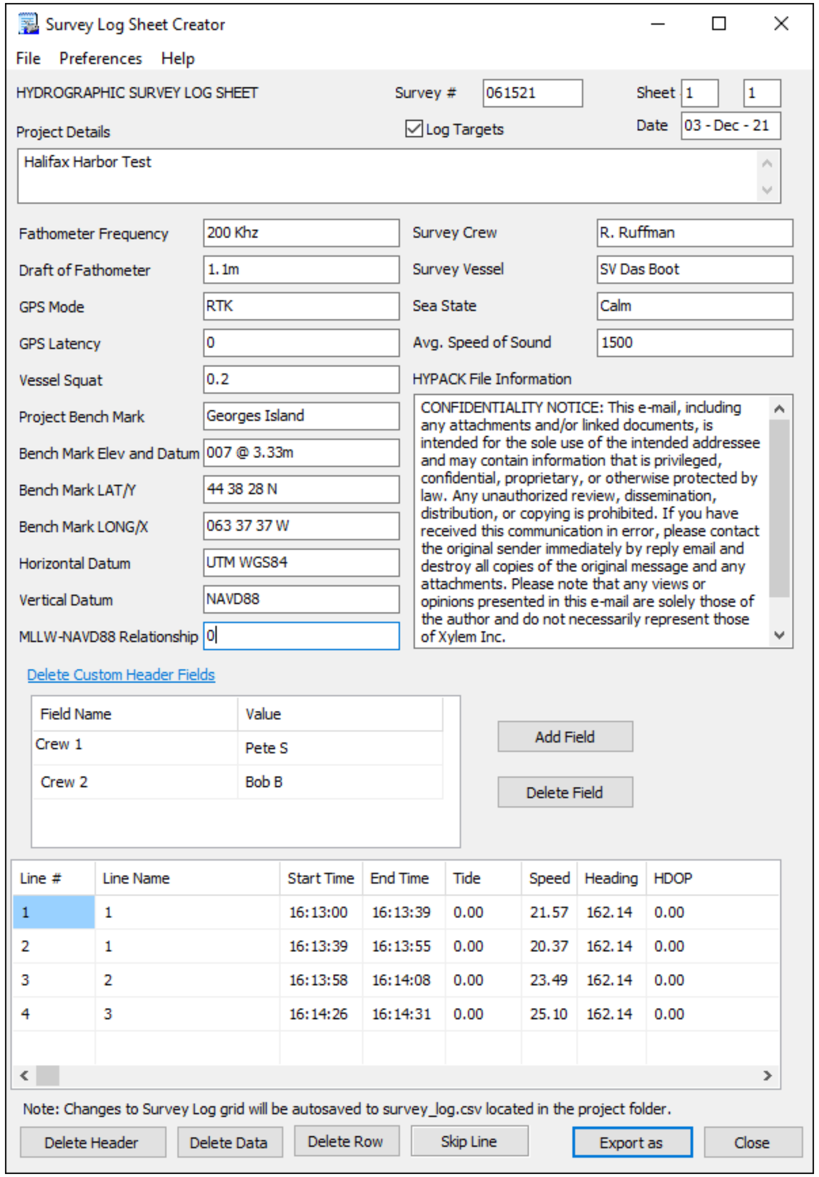
REGISTRO LEVANTAMIENTO

- Automáticamente salva datos a un archivo *.csv pra que levantamiento lo pueda Volver a cargar.
- Importe archivo Levantamiento *.log.
- Importe/exporte info de encabezado
- Exporte hojas a PDF, XLS, y formato CSV
- Agregue campos de encabezado personalizados
- Registre Blancos en la seccion Memo


File
Preferences
Help
HYDROGRAPHIC SURVEY LOG SHEET
Project Details

☑ Log Targets

Halifax Harbor Test


Survey Log Sheet Creator
File
Preferences
Help

HYDROGRAPHIC SURVEY LOG SHEET

Survey # 061521

Sheet 1 1

☑ Log Targets

Date 03 - Dec - 21

Project Details

Halifax Harbor Test

Fathometer Frequency	200 Khz
Draft of Fathometer	1.1m
GPS Mode	RTK
GPS Latency	0
Vessel Squat	0.2
Project Bench Mark	Georges Island
Bench Mark Elev and Datum	007 @ 3.33m
Bench Mark LAT/Y	44 38 28 N
Bench Mark LONG/X	063 37 37 W
Horizontal Datum	UTM WGS84
Vertical Datum	NAVD88
MLLW-NAVD88 Relationship	0

Survey Crew	R. Ruffman
Survey Vessel	SV Das Boot
Sea State	Calm
Avg. Speed of Sound	1500

HYPACK File Information

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Delete Custom Header Fields

Field Name	Value
Crew 1	Pete S
Crew 2	Bob B

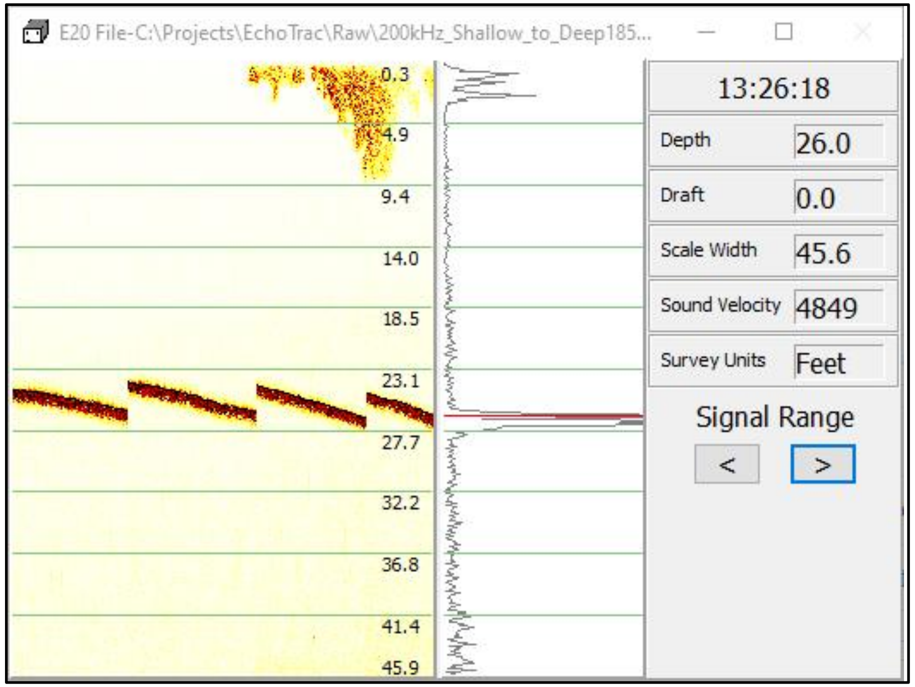
Add Field
Delete Field

Line #	Line Name	Start Time	End Time	Tide	Speed	Heading	HDOP
1	1	16:13:00	16:13:39	0.00	21.57	162.14	0.00
2	1	16:13:39	16:13:55	0.00	20.37	162.14	0.00
3	2	16:13:58	16:14:08	0.00	23.49	162.14	0.00
4	3	16:14:26	16:14:31	0.00	25.10	162.14	0.00

Note: Changes to Survey Log grid will be autosaved to survey_log.csv located in the project folder.

Delete Header
Delete Data
Delete Row
Skip Line
Export as
Close

CONTROLADORES DISPOSITIVOS


E20 File-C:\Projects\EchoTrac\Raw\200kHz_Shallow_to_Deep185...
0.3
4.9
9.4
14.0
18.5
23.1
27.7
32.2
36.8
41.4
45.9
Signal Range
<
>

13:26:18

Depth 26.0

Draft 0.0

Scale Width 45.6

Sound Velocity 4849

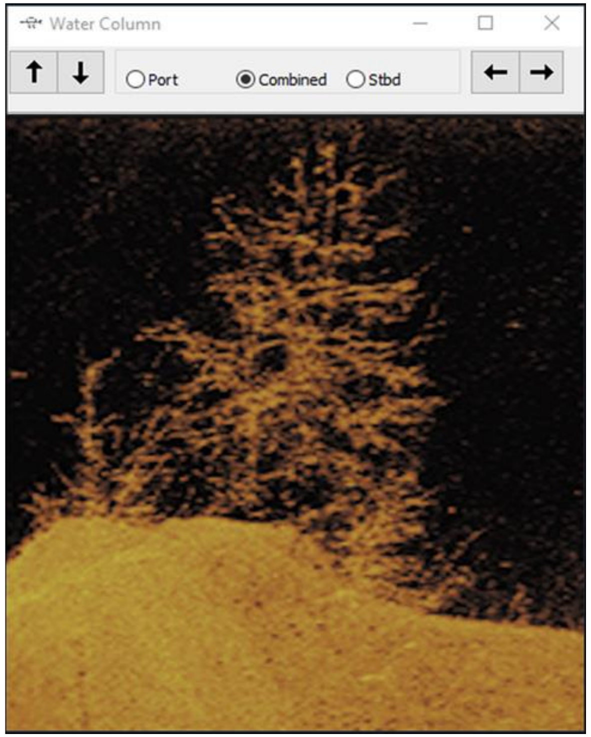
Survey Units Feet

ECHOTRAC
E20

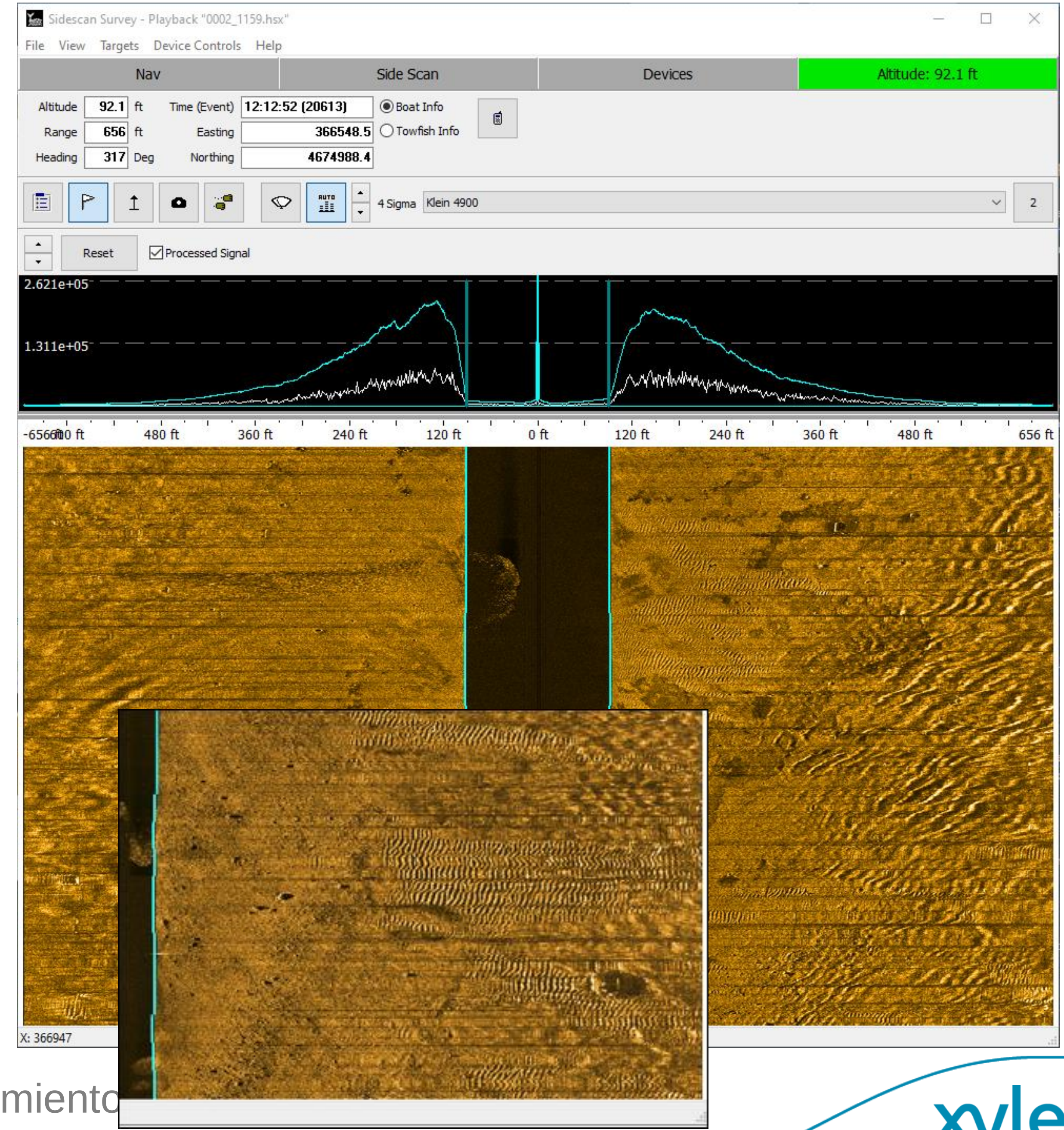
- Se agregó soporte para ecogramas de 32-bit. Cualquier dato grabado desde un E20 lo es en calidad total—no hay reducción de muestreos como en versiones anteriores.
- Ventana dispositivos Levantamiento incluye botones de Rango Señal para ajustar el brillo de la presentación.
- Editores Monohaz de 32-bit y 64-bit Tambien has sido actualizados para procesar los datos de Ecograma.

LEVANTAMIENTO SONAR LATERAL

- Soporte para Edgetech 4205
- Se actualizó al ultimo Klein SDKs
- Se removió la rebaja de muestreos para mejorar la presentación de cascada
- Nueva presentación de Columna de Agua


Water Column
↑
↓
←
→

○ Port ● Combined ○ Stbd


Sidescan Survey - Playback "0002_1159.hsx"

File
View
Targets
Device Controls
Help
Nav
Side Scan
Devices
Reset
2.621e+05
1.311e+05
-656
600 ft
480 ft
360 ft
240 ft
120 ft
0 ft
120 ft
240 ft
360 ft
480 ft
656 ft

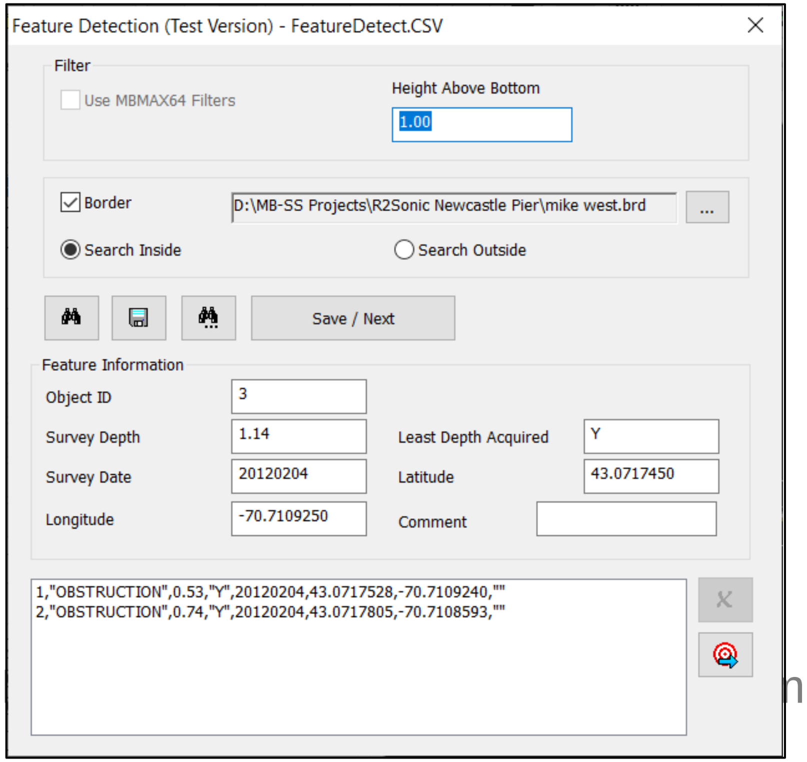
Altitude: 92.1 ft

Altitude 92.1 ft
Range 656 ft
Heading 317 Deg
Time (Event) 12:12:52 (20613)
Easting 366548.5
Northing 4674988.4
● Boat Info
○ Towfish Info
4 Sigma Klein 4900
2
☑ Processed Signal
X: 366947

xylem
Let's Solve Water

MBMAX64 – Detección de Características

- Nueva herramienta para detector objetos localizados a una altura sobre el fondo definida por el usuario
- Limite la búsqueda dentro de un archivo de borde
- Salve a un archivo CSV (DeteccionCaracteristicas.CSV) que puede usar para someterlo a eHydro



Feature Detection (Test Version) - FeatureDetect.CSV

Filter

☐ Use MBMAX64 Filters

Height Above Bottom: 1.00

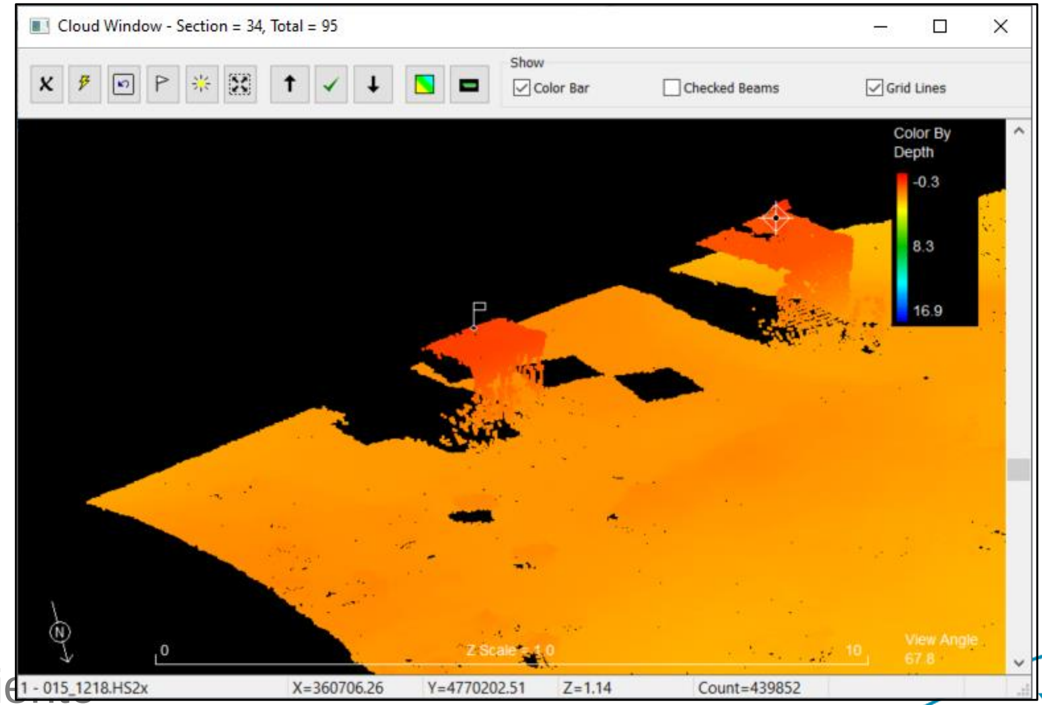
☑ Border: D:\MB-SS Projects\R2Sonic Newcastle Pier\mike west.brd

● Search Inside ○ Search Outside

Feature Information

Object ID	3		
Survey Depth	1.14	Least Depth Acquired	Y
Survey Date	20120204	Latitude	43.0717450
Longitude	-70.7109250	Comment	

```
1,"OBSTRUCTION",0.53,"Y",20120204,43.0717528,-70.7109240,""
2,"OBSTRUCTION",0.74,"Y",20120204,43.0717805,-70.7108593,""
```



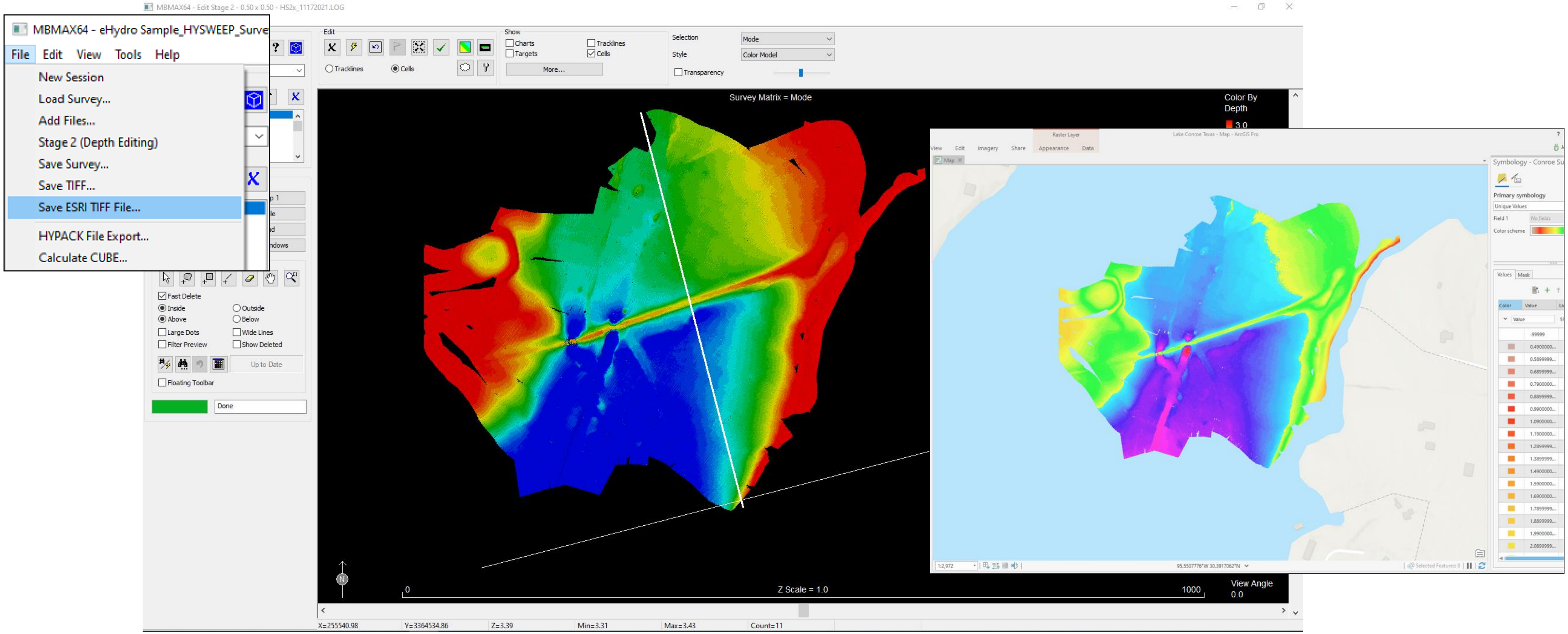
Cloud Window - Section = 34, Total = 95

Show: ☑ Color Bar ☐ Checked Beams ☑ Grid Lines

1 - 015_1218.HS2x X=360706.26 Y=4770202.51 Z=1.14 Count=439852

Let's Solve Water

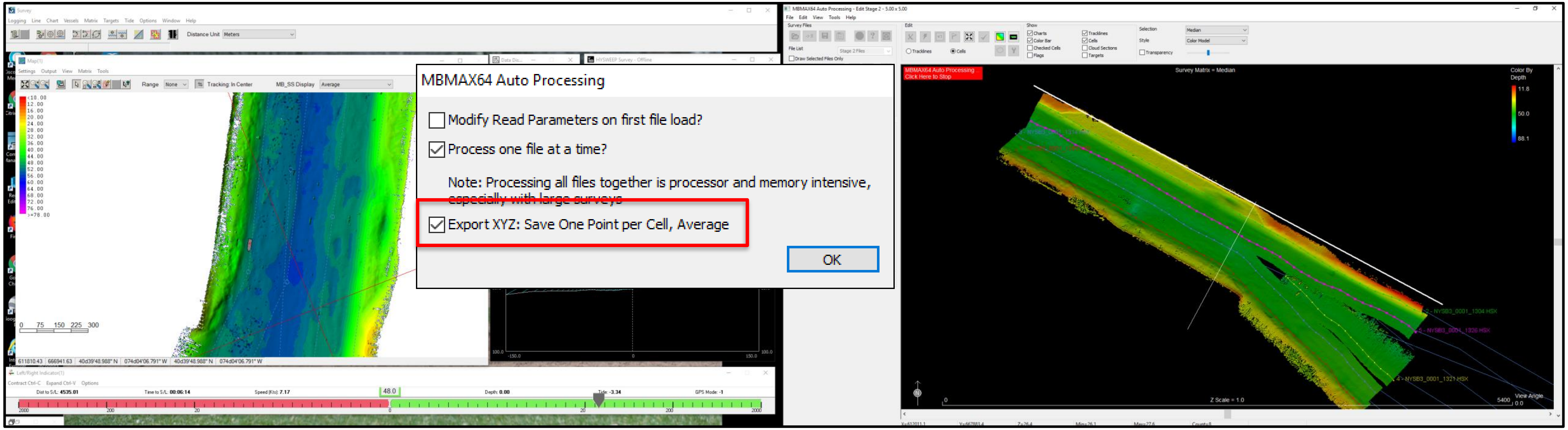
MBMAX64 – Exportación Directa a ArcGIS


MBMAX64 - Edit Stage 2 - 0.50 x 0.50 - HS2x_11172021.LOG
MBMAX64 - eHydro Sample_HYSWEEP_Surve
File
Edit
View
Tools
Help
New Session
Load Survey...
Add Files...
Stage 2 (Depth Editing)
Save Survey...
Save TIFF...
Save ESRI TIFF File...
HYPACK File Export...
Calculate CUBE...
Edit
Show
Charts
Targets
Tracklines
Cells
More...
Selection
Style
Mode
Color Model
Transparency
Tracklines
Cells
Survey Matrix = Mode
Color By Depth
3.0
Fast Delete
Inside
Outside
Above
Below
Large Dots
Wide Lines
Filter Preview
Show Deleted
Up to Date
Floating Toolbar
Done
Z Scale = 1.0
0
1000
View Angle
0.0
N
Lake Conroe Texas - Map - ArcGIS Pro
Raster Layer
View
Edit
Imagery
Share
Appearance
Data
Map
Symbology - Conroe Su
Primary symbology
Unique Values
Field 1
Color scheme
Values
Mask
Color
Value
-99999
0.4900000...
0.5899999...
0.6899999...
0.7900000...
0.8899999...
0.9900000...
1.0900000...
1.1900000...
1.2899999...
1.3899999...
1.4900000...
1.5900000...
1.6900000...
1.7899999...
1.8899999...
1.9900000...
2.0899999...
1:2,972
95.5507776°W 30.3917062°N
Selected Features: 0

X=255540.98 Y=3364534.86 Z=3.39 Min=3.31 Max=3.43 Count=11

- **Salvar a archivo ESRI TIFF** – crea un GeoTIFF de los datos Multihaz en un formato aceptable por ArcGIS

MBMAX64 – AUTO-PROCESAMIENTO



MBMAX64 Auto Processing

☐ Modify Read Parameters on first file load?

☑ Process one file at a time?

Note: Processing all files together is processor and memory intensive, especially with large surveys

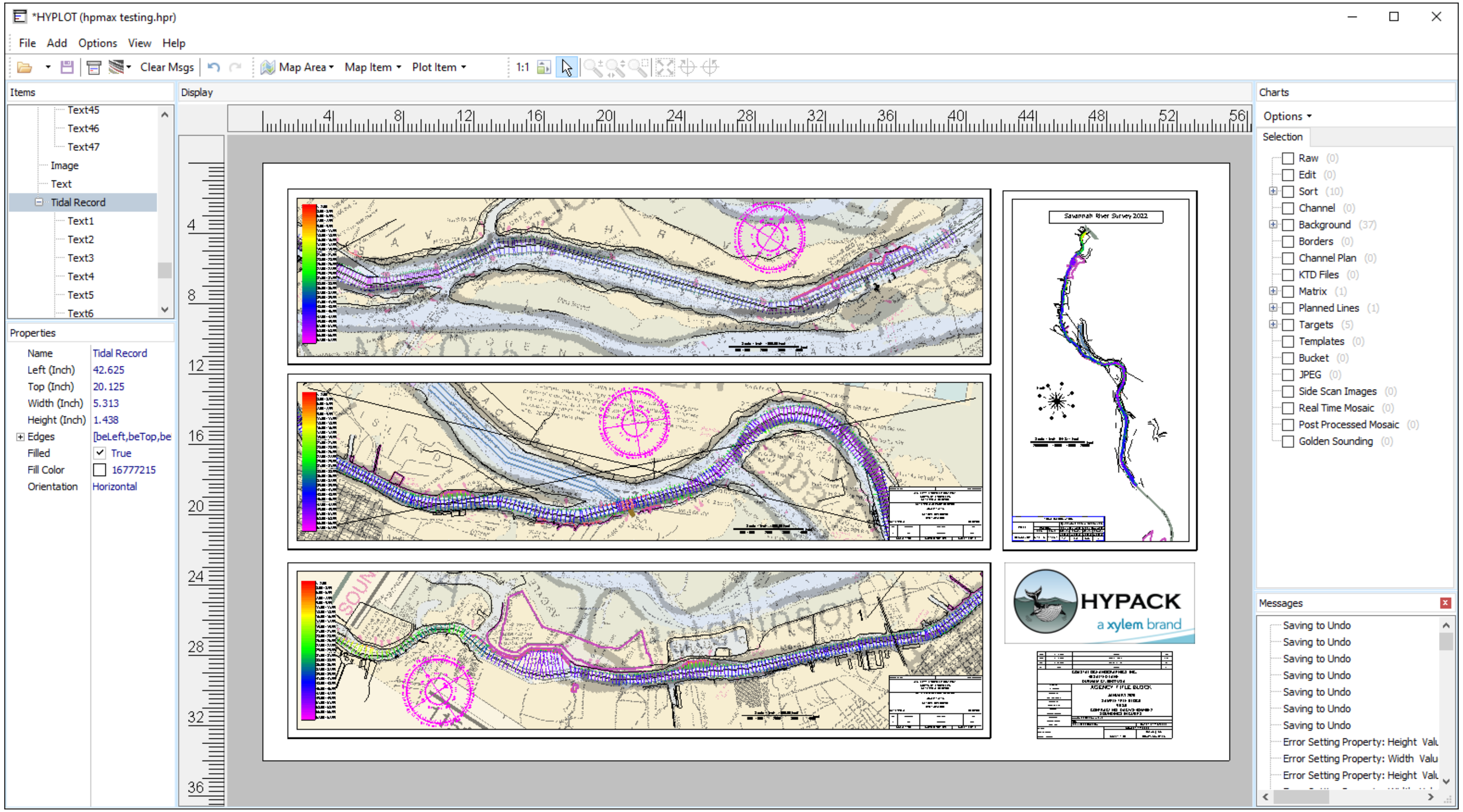
☑ Export XYZ: Save One Point per Cell, Average

OK

- Auto Procesamiento – Exportación a XYZ como parte de la salida de Auto Procesamiento

HYPLOT MAX

- Nuevo en 2022!
- Usa espacio del papel.
- Plotea múltiples mapas en una hojat!
- Crea áreas de ploteo sin un archivo PLT.
- Plotea todos los archivos de fondo.
- Asegura ítems para evitar edición no deseada.
- Múltiples deshacer.
- Defina parámetros en la Ventana principal.


*HYPLOT (hpmax testing.hpr)
File
Add
Options
View
Help
Clear Msgs
Map Area
Map Item
Plot Item
1:1
Items
Text45
Text46
Text47
Image
Text
Tidal Record
Text1
Text2
Text3
Text4
Text5
Text6
Display
Charts
Options
Selection
Raw (0)
Edit (0)
Sort (10)
Channel (0)
Background (37)
Borders (0)
Channel Plan (0)
KTD Files (0)
Matrix (1)
Planned Lines (1)
Targets (5)
Templates (0)
Bucket (0)
JPEG (0)
Side Scan Images (0)
Real Time Mosaic (0)
Post Processed Mosaic (0)
Golden Sounding (0)
Savannah River Survey 2022
HYPACK
a xylem brand
Messages

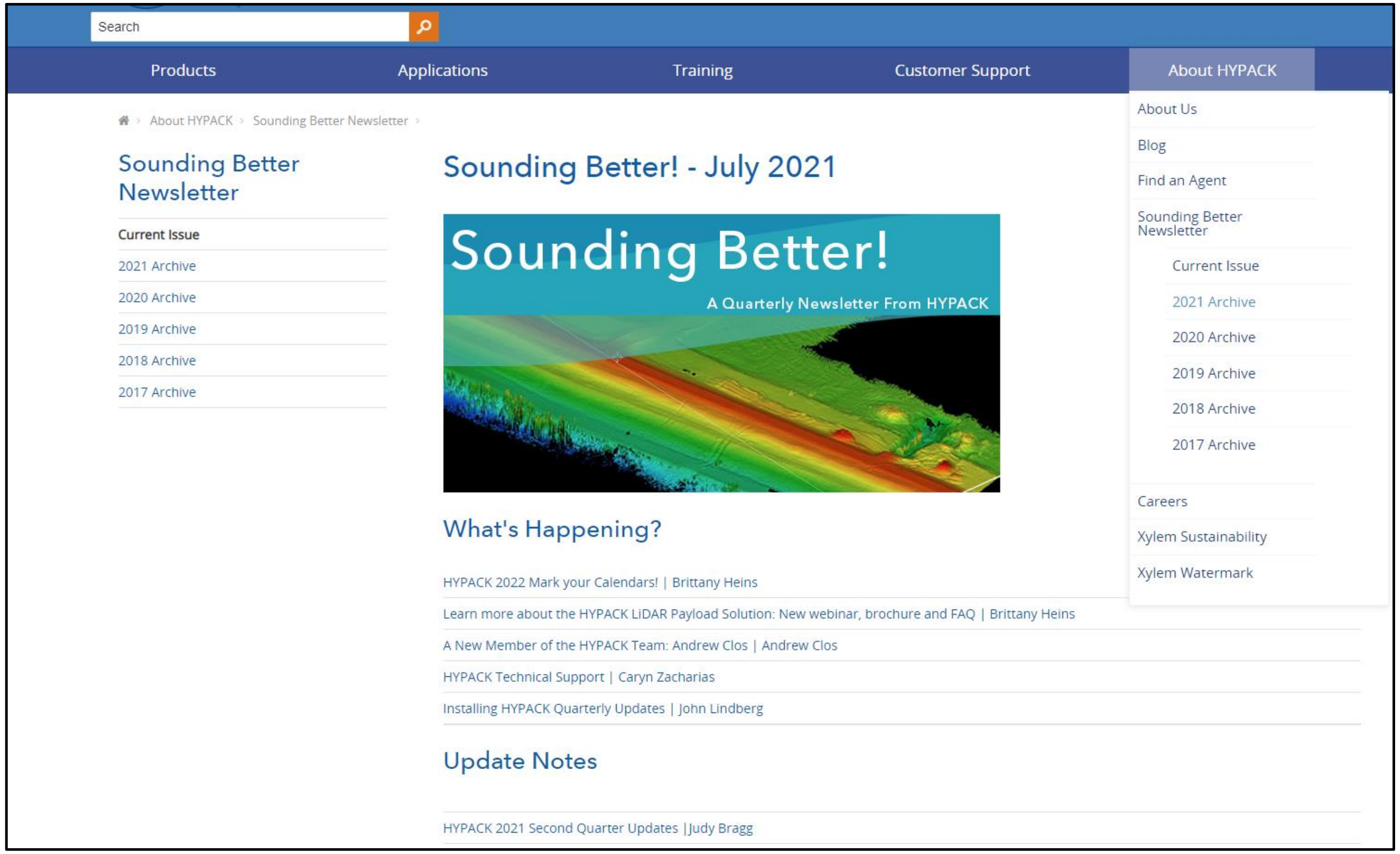
Properties

Name	Tidal Record
Left (Inch)	42.625
Top (Inch)	20.125
Width (Inch)	5.313
Height (Inch)	1.438
Edges	[beLeft,beTop,be
Filled	☑ True
Fill Color	☐ 16777215
Orientation	Horizontal

```
Saving to Undo
Saving to Undo
Saving to Undo
Saving to Undo
Saving to Undo
Saving to Undo
Saving to Undo
Error Setting Property: Height  Valu
Error Setting Property: Width  Valu
Error Setting Property: Height  Valu
```

Sondeando Mejor!

- Revista Trimestral
- Muestra lo nuevo en el mundo HYPACK!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2020 Archive
2019 Archive
2018 Archive
2017 Archive
Careers
Xylem Sustainability
Xylem Watermark
Sounding Better!
A Quarterly Newsletter From HYPACK

Sounding Better Newsletter

- Current Issue
- 2021 Archive
- 2020 Archive
- 2019 Archive
- 2018 Archive
- 2017 Archive

Sounding Better! - July 2021

What's Happening?

- HYPACK 2022 Mark your Calendars! | Brittany Heins
- Learn more about the HYPACK LiDAR Payload Solution: New webinar, brochure and FAQ | Brittany Heins
- A New Member of the HYPACK Team: Andrew Clos | Andrew Clos
- HYPACK Technical Support | Caryn Zacharias
- Installing HYPACK Quarterly Updates | John Lindberg

Update Notes

- HYPACK 2021 Second Quarter Updates |Judy Bragg

xylem
Let's Solve Water

Gracias!

Vinculos a mas información:

HYPACK on Youtube.com (Sesiones Historicas)

HYPACK on Youtube.com (Sesiones mas Nuevas)

HYPACK SUPPORT Site

HYPACK Live Chat

HYPACK Ustream

HYPACK Website

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