

# HYPACK FOR UNMANNED SYSTEMS

## The Software Solution for Acoustic and LIDAR Data Collection and Processing

### Mission Planning

- ◇ Line and Area based survey planning
- ◇ Download Maps from web mapping services
- ◇ Import/create geo-reference images

### Interface With Several Different Sensor Types

- ◇ LIDAR – Laser Scanners
- ◇ Sonar – Single and Multibeam Echosounders, Interferometers, Sub-bottom, Side Scan Sonars
- ◇ Magnetometers
- ◇ GPS Receivers: Stand-alone and RTK-enabled
- ◇ Motion Reference Units
- ◇ Inertial Navigation Systems

### Data Acquisition & Processing

- ◇ Georeference data directly
- ◇ Post-process data with the latest algorithms and tools
- ◇ Real-time targeting

### Real-Time Visualization

- ◇ 3D Point Cloud
- ◇ Matrix coverage (surface area)

### Remote View

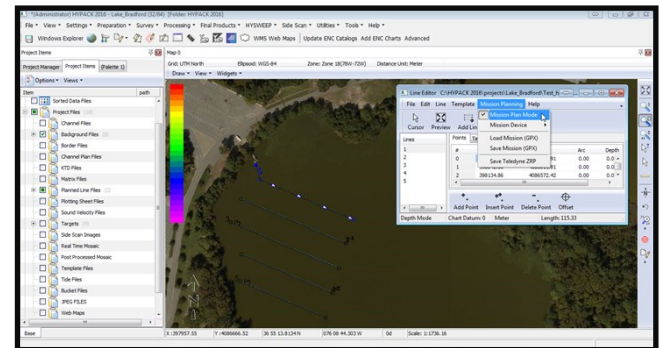
- ◇ Remotely view and control data acquisition

### Data Analysis

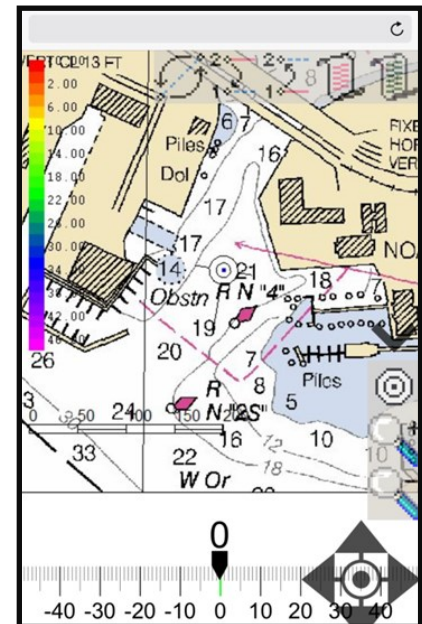
- ◇ XYZ and TIN surface comparisons
- ◇ Volumetric analyses

### Product Creation

- ◇ XYZ, LAS/LAZ, Pts, WebGL, GeoTIF, Google, Earth KMZ, CAD formats



Plan the mission for your unmanned surface vessel in HYPACK®



Remotely view your platform on any WiFi enabled smartphone, tablet, or computer

## UNMANNED AERIAL VEHICLES (UAV)

Data Collection, Processing, Real Time Data Visualization aboard aerial platforms



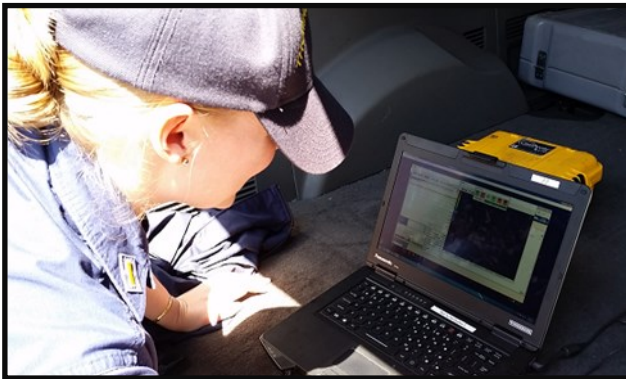
Collecting HYPACK® data



Infinite Jib—Nexus 800

## UNMANNED SURFACE VESSELS (USV)

Complete end-to-end solution. Mission Planning > Data Collection & Processing > Product Creation

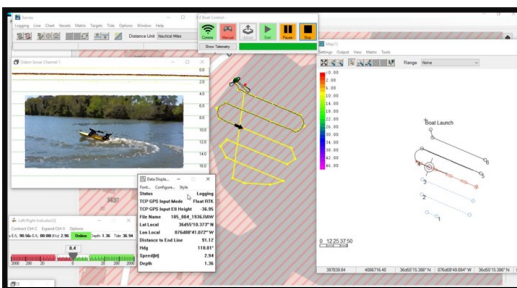


Unmanned surface operations using HYPACK®

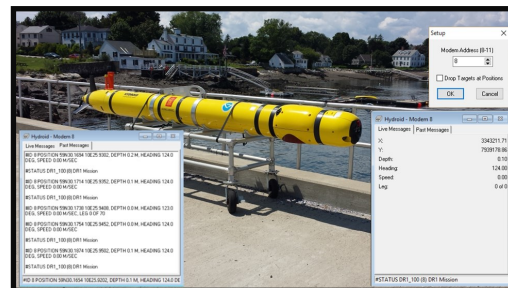


## AUTONOMOUS UNDERWATER VEHICLES (AUV)

Vehicle tracking & Data Processing



Executed plan using the HYPACK® mission planner



Improving the safety of AUV operations through increased situational awareness

**HYPACK For Unmanned Systems**

Designed and supported by: HYPACK, A Xylem Brand

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