



# Seafloor™

# AutoNav

## Quick Start Guide

Using HYPACK Software

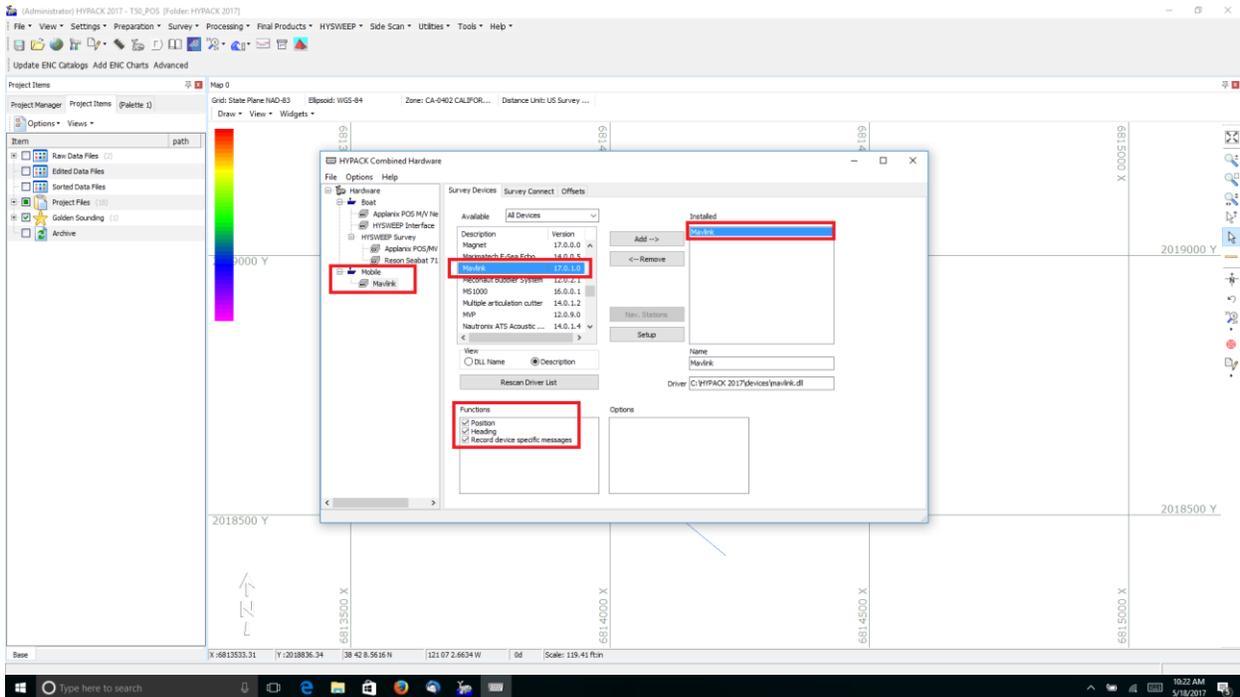


**Autonomous Wayfinding System for Unmanned Surface Vessels**

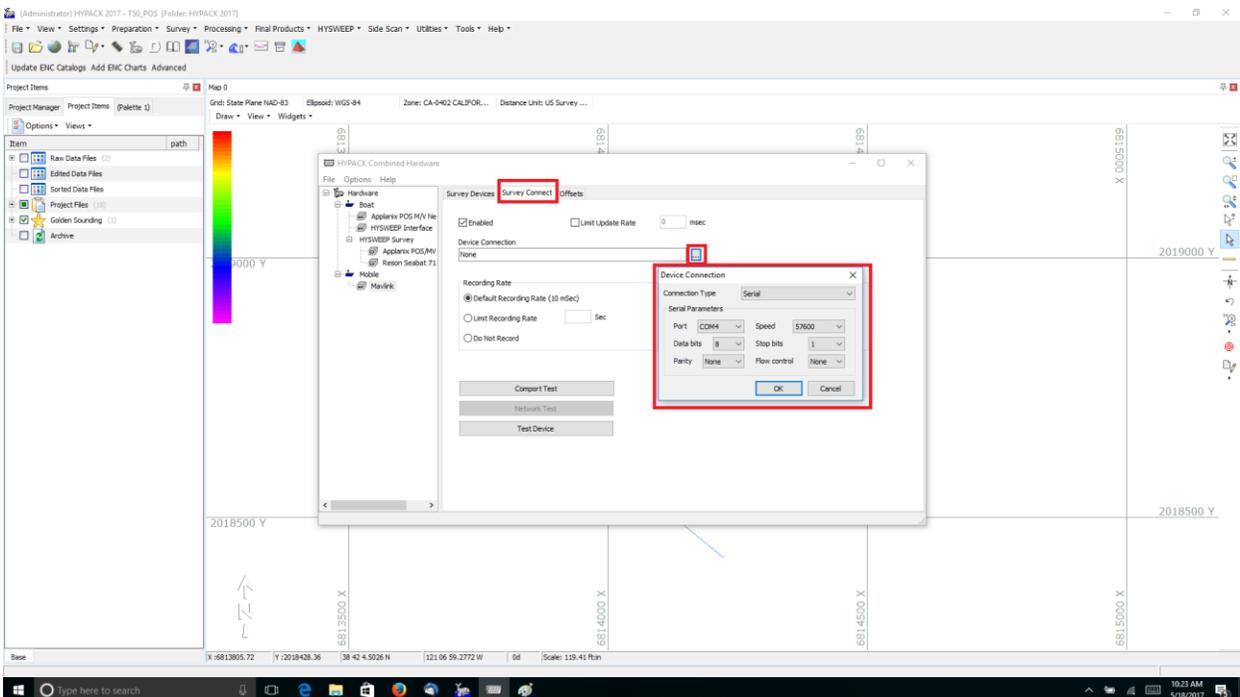
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# Setup

- Plug AutoNav USB Cable into PC on USV
- Open Computer Device Manager to find COM Port number of AutoNav USB
- Open Hypack Hardware Setup and add MavLink driver on your mobile device

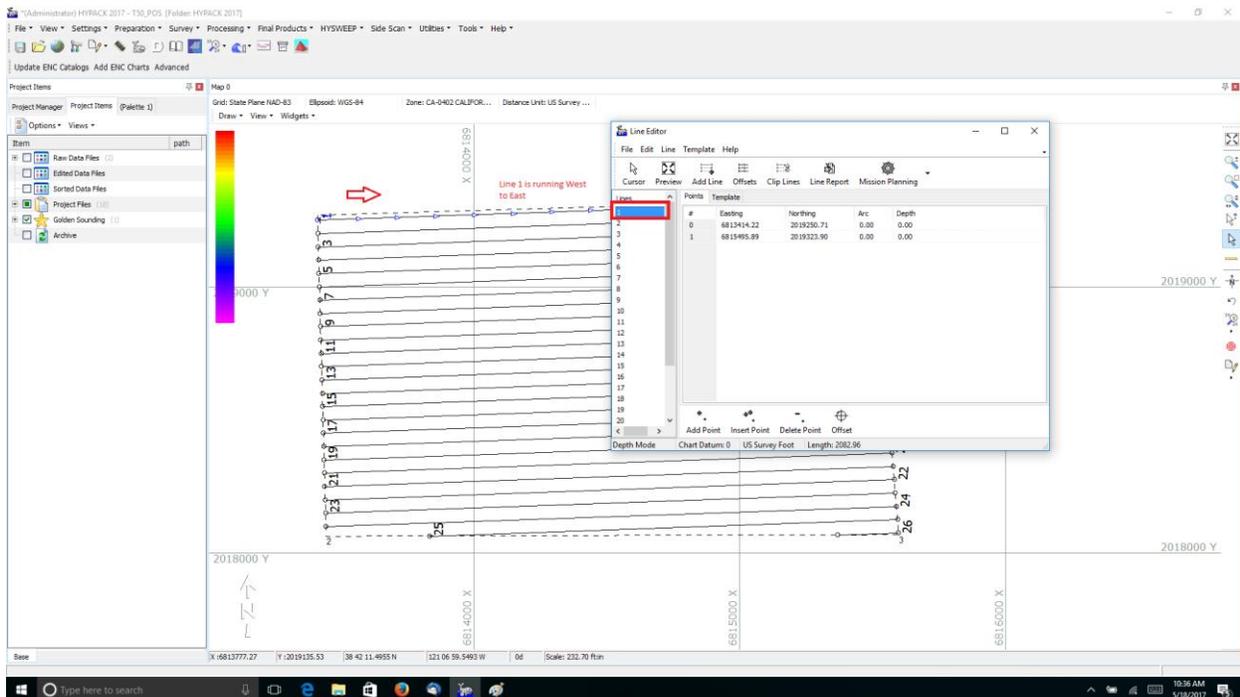
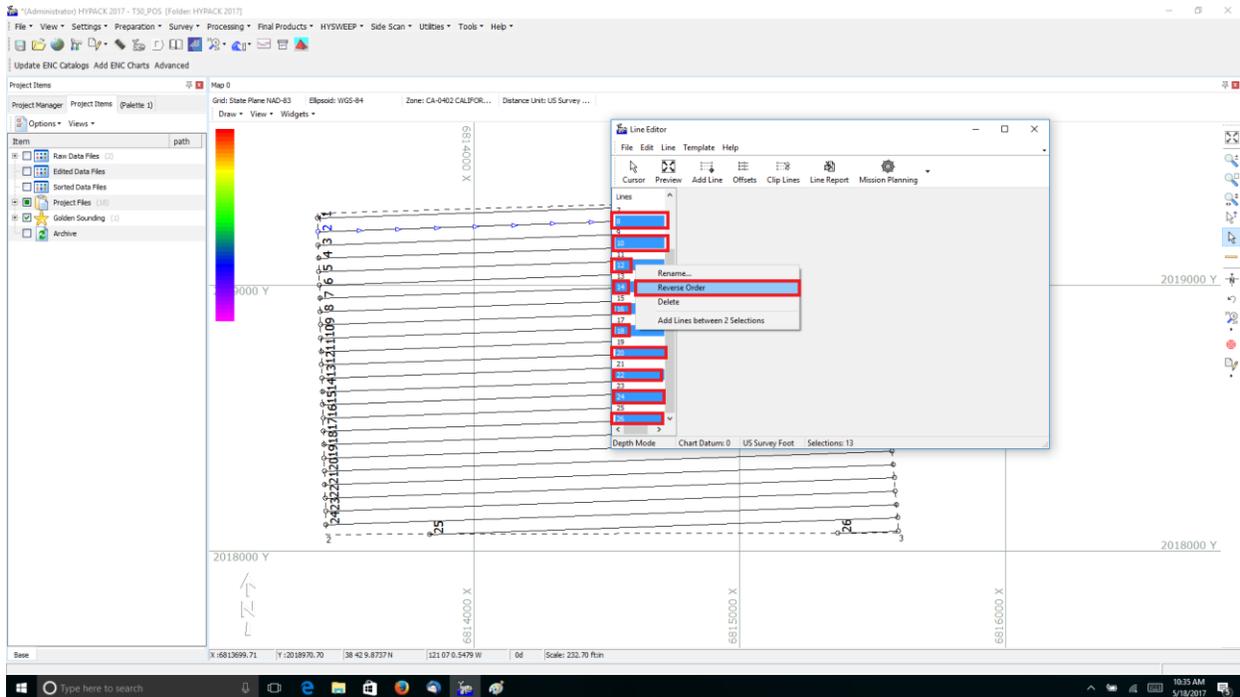


- Set MavLink connection to serial port number in Device Manager and 115200 Baud Rate

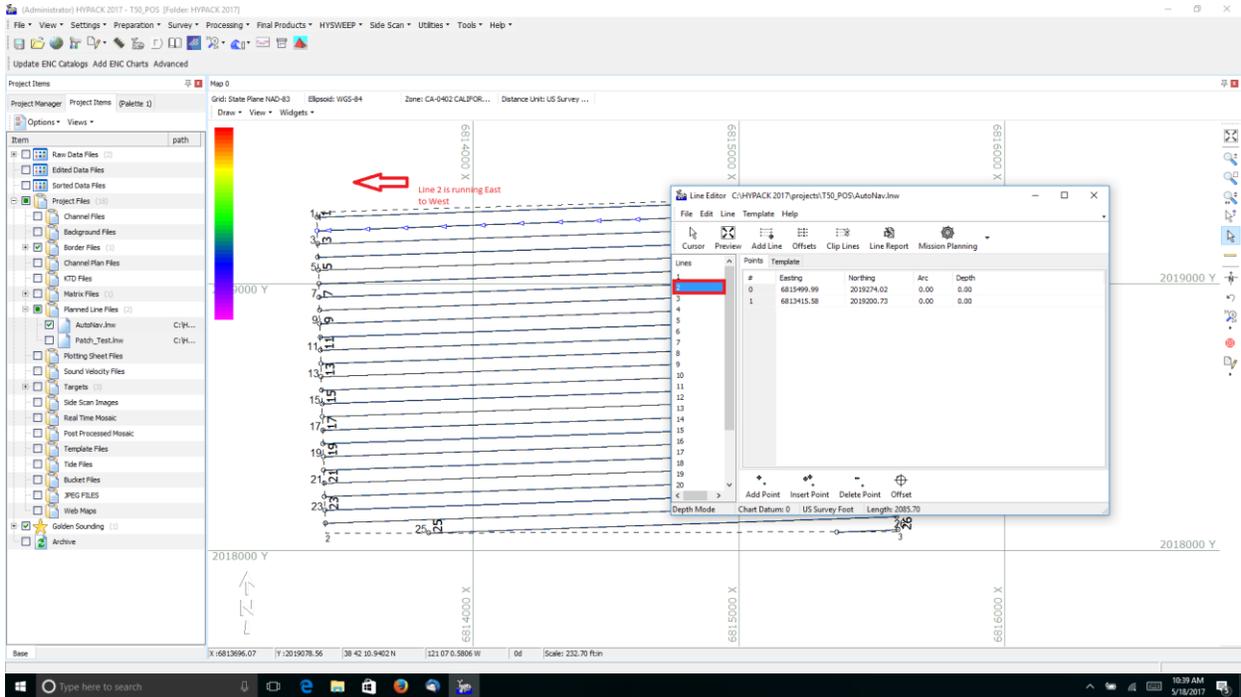


# Setup

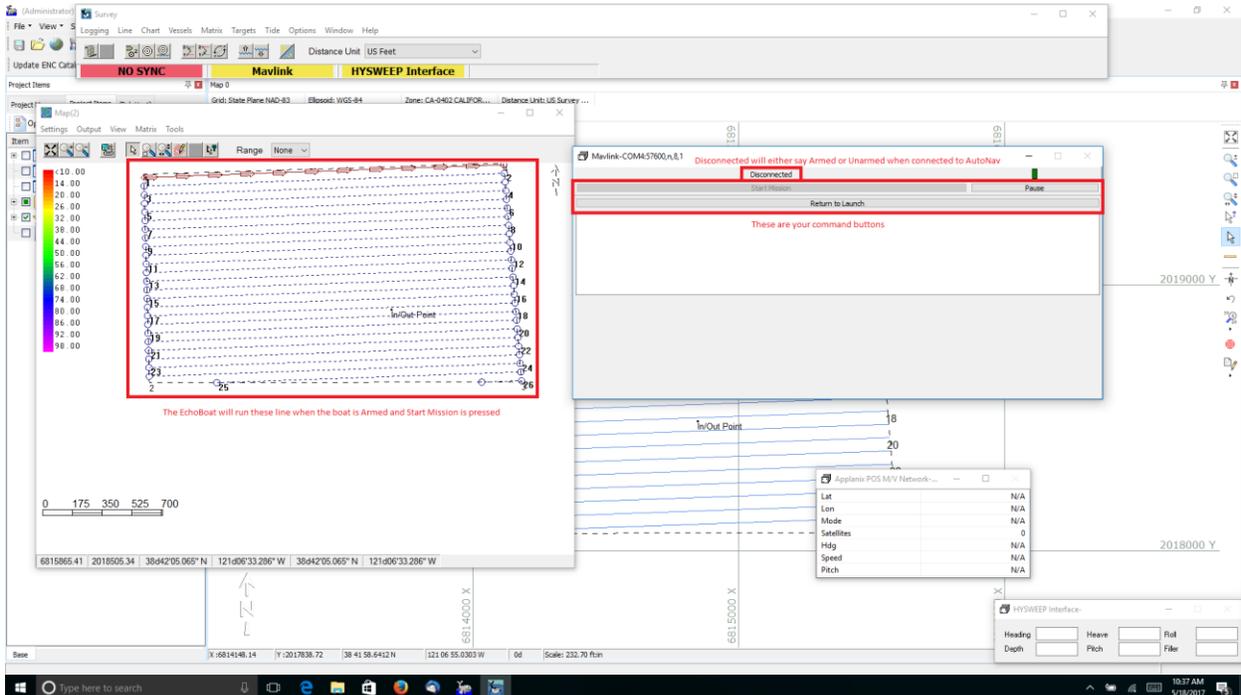
- Create your line plan using Hypack's standard Line Plane Editor
- Select every other line and reverse the direction



# Setup



- Start Hypack/Hysweep Survey
- MavLink Driver will say Armed



# Start & End Mission

Mavlink driver button functionality:

- Start Mission
  - The boat will navigate the current line file
  - Once “Start Mission” is selected, it will turn to “Stop Mission”
  - Click “Stop Mission” once the boat is finished running all lines
- Pause
  - Once the Mission is started, use “Pause” to regain manual control of the boat
  - Use this to avoid obstacles
  - When “Pause” is selected, the button label will change to “Resume”
  - Use “Resume” to continue the mission after obstacle is avoided
- Return to Launch
  - The boat will take a straight line back to where the AutoNav was last armed
  - Make sure the boat has an unobstructed path if using this function
  - The bottom of the MavLink driver window should say “Flight mode set successfully” whenever one of the buttons are clicked