



Seafloor AutoNav Autonomous Control System User Guide

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AutoNav

Quick Start Guide

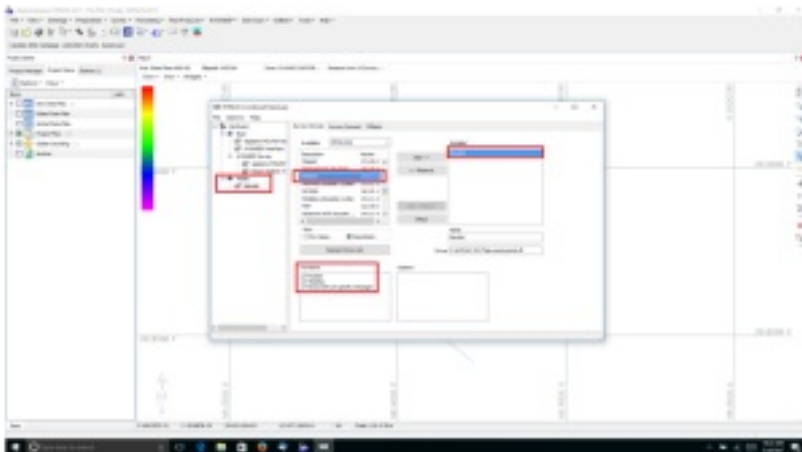
Using HYPACK Software



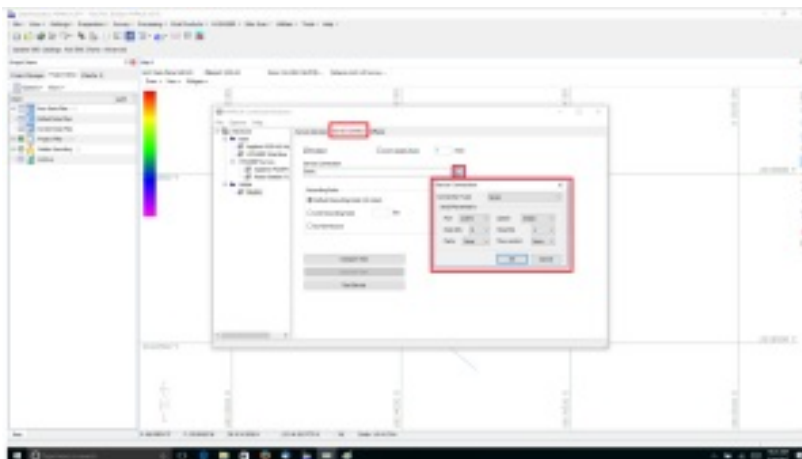
Autonomous Wayfinding System for Unmanned Surface Vessels

Setup

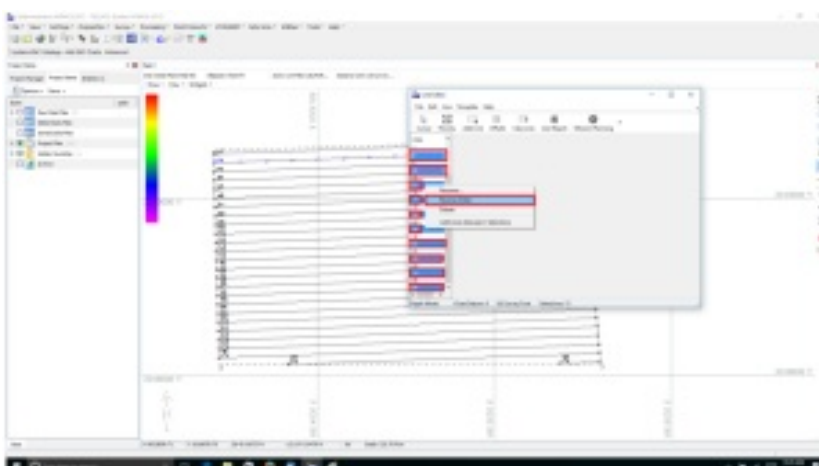
- Plug AutoNav USB Cable into PC on USV
- Open Computer Device Manager to find COM Port number of AutoNav USB
- Open Hypack Hardware Setup and add MavLink driver on your mobile device

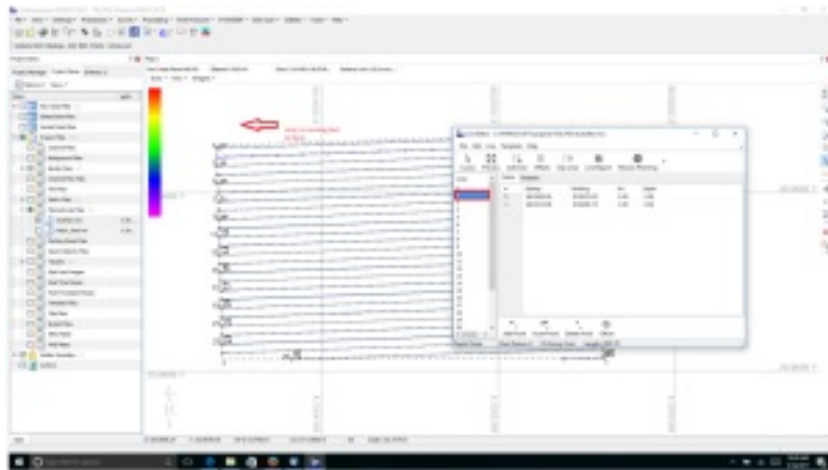
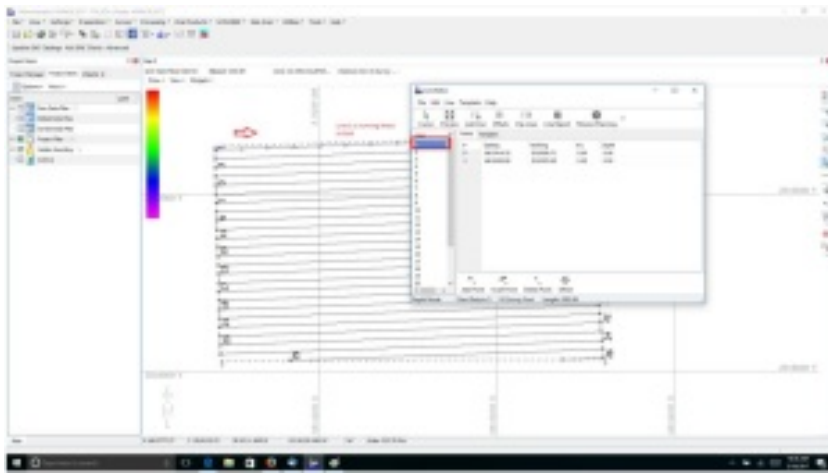


- Set MavLink connection to serial port number in Device Manager and 115200 Baud Rate

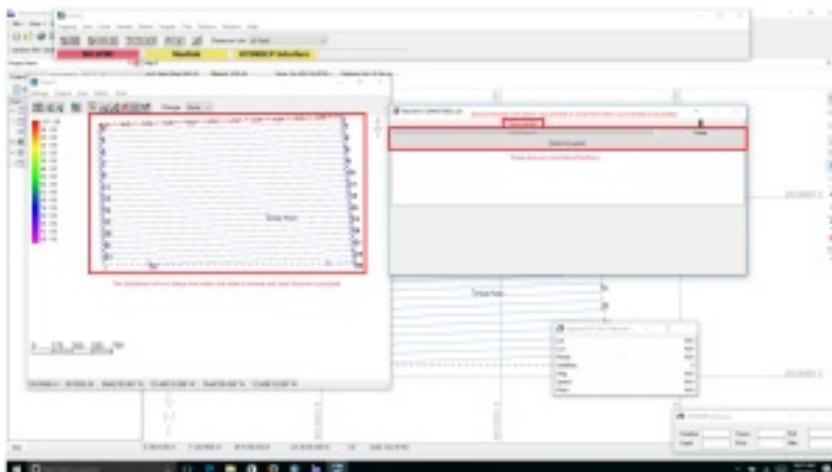


- Create your line plan using Hypack's standard Line Plane Editor
- Select every other line and reverse the direction





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



Start & End Mission

Mavlink driver button functionality:



- Start Mission
 - o The boat will navigate the current line file
 - o Once “Start Mission” is selected, it will turn to “Stop Mission”

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

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Documents / Resources

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|---|---|
|  | <p>Seafloor AutoNav Autonomous Control System [pdf] User Guide AutoNav Autonomous Control System</p> |
|  | <p>Seafloor AutoNav Autonomous Control System [pdf] User Guide AutoNav Autonomous Control System, Autonomous Wayfinding System for Unmanned Surface Vessels</p> |