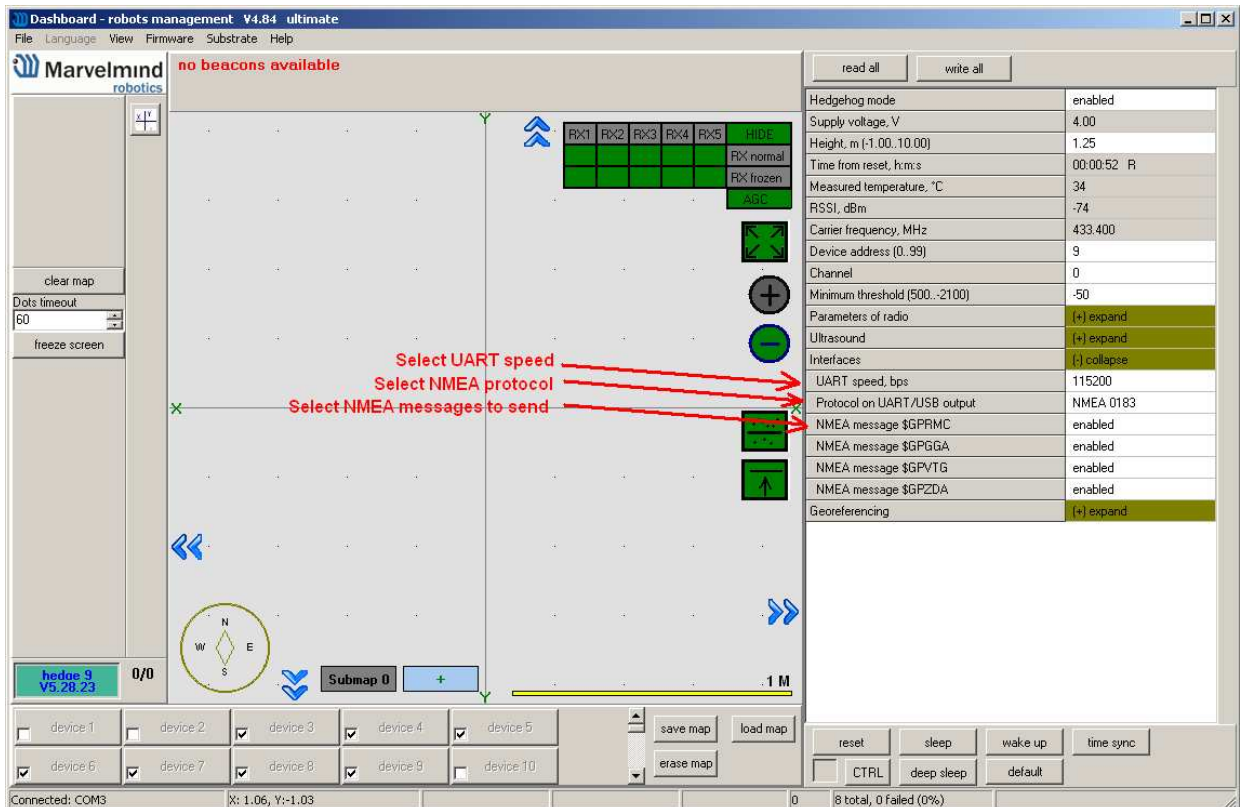


Communication of Pixhawk with Marvelmind mobile beacon.

Version 2016.10.11

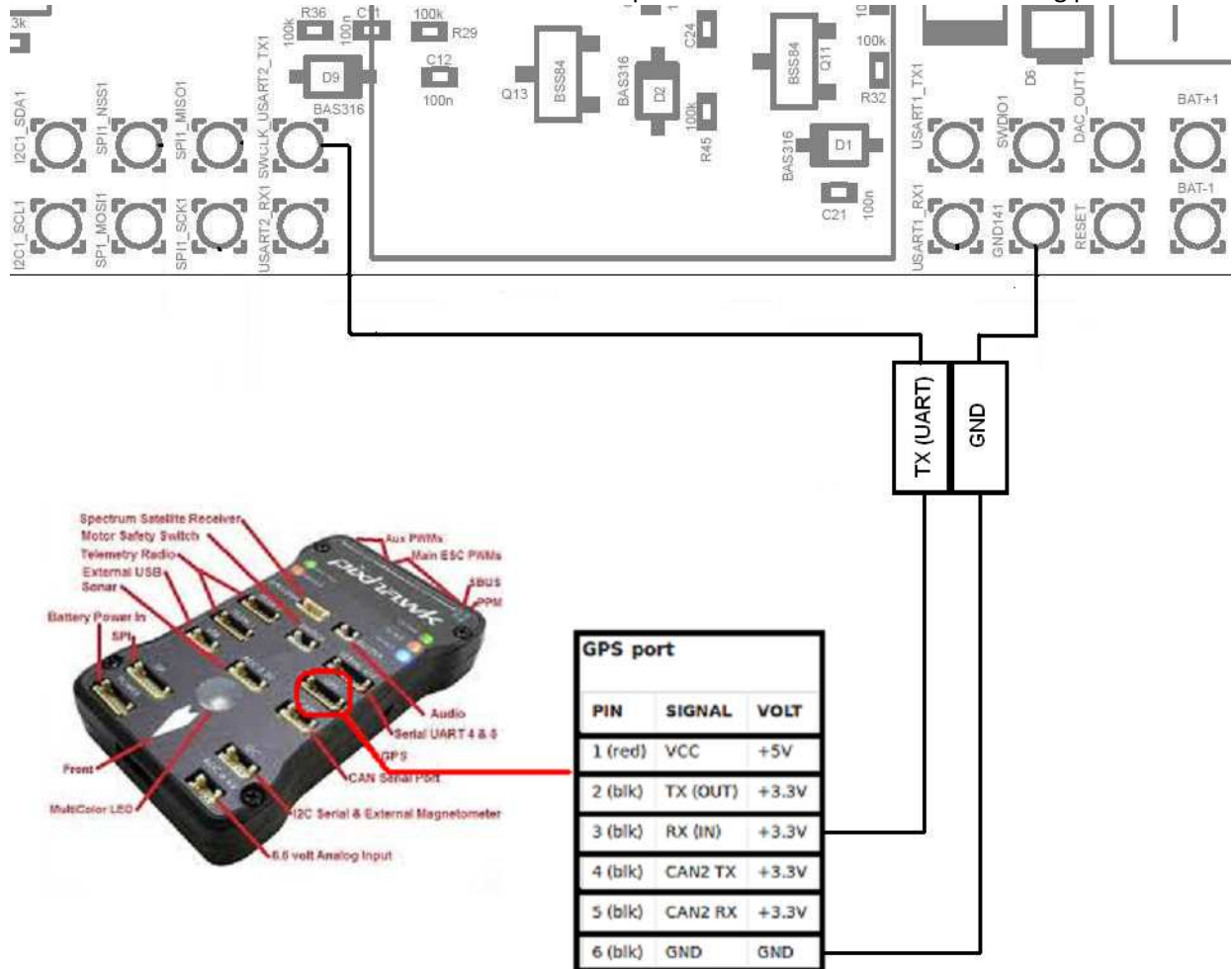
Valid for beacon firmware v5.19 and newer

Marvelmind mobile beacon can be connected to Pixhawk (and to any hardware or software with input of GPS data according to NMEA0183 protocol). Mobile beacon can send GPS data via UART and USB (virtual UART) interfaces. NMEA protocol should be enabled in the device with dashboard as shown on following screenshot:



The mobile beacon sends all enabled messages every time it receives updated position.

Schematic of connection of the mobile beacon to GPS port of Pixhawk is shown on following picture.

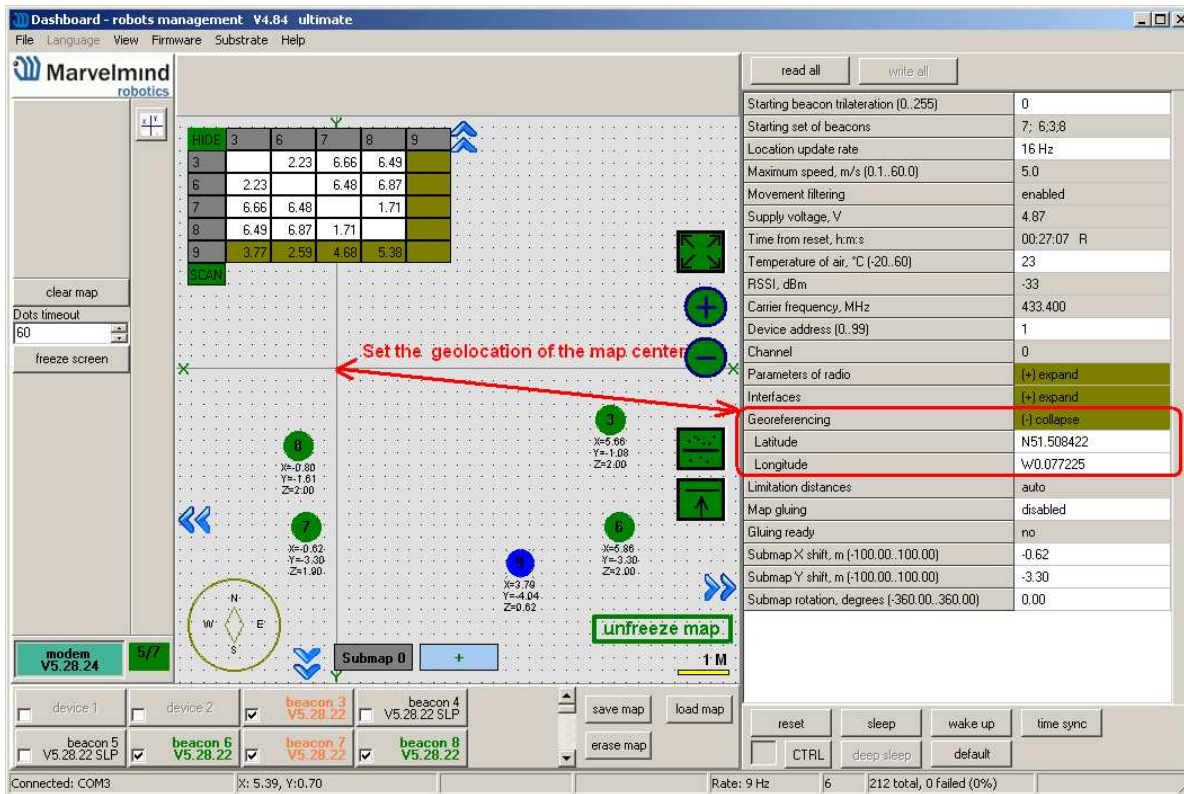


To view the GPS data received by Pixhawk from the mobile beacon can be used the software like 'Mission Planner' and 'APM planner'.

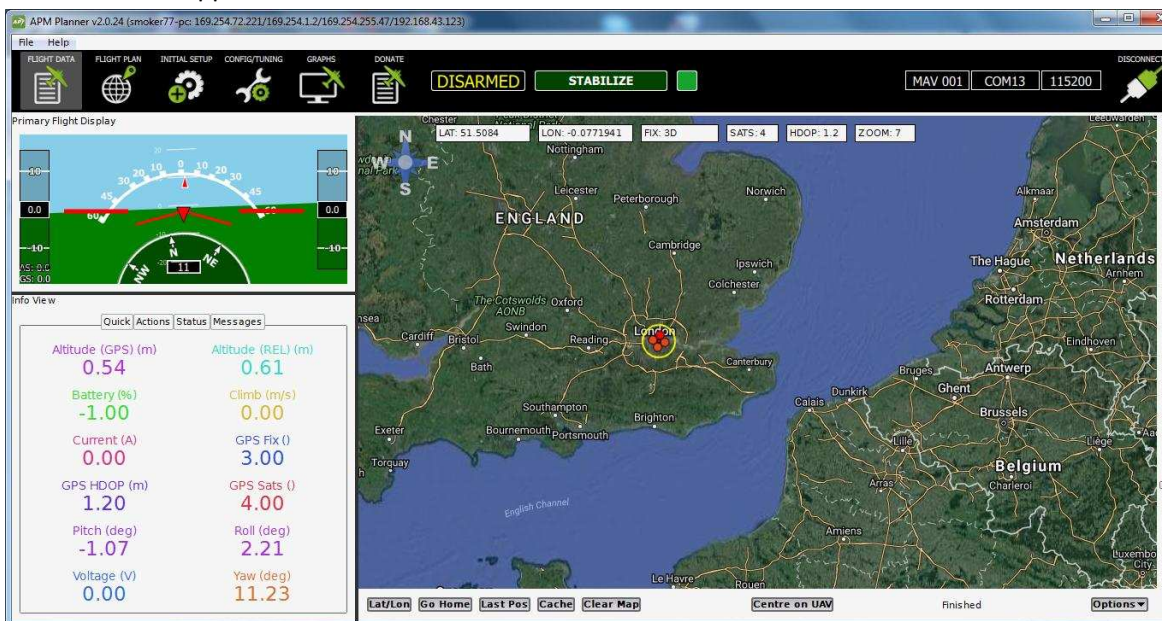
APM planner can be downloaded here:

<http://firmware.eu.ardupilot.org/Tools/APMPlanner/>

Before powering on the Pixhawk you can setup geolocation of the center of the marvelmind map, from modem view in dashboard as shown on following picture:



Then power up the Pixhawk, run APM Planner and press 'connect' button in right top corner. The device will appear at selected location:



If you increase scale, you can see the track of the moving mobile beacon:

