

## **Hydrolite Set-up with Terrasync**

### **Make Bluetooth connection to Sonarmite using Trimble Settings menu**

- Start -> Settings -> Connections -> Bluetooth
- Ensure Bluetooth is turned on
- Search for Devices -> Select Sonarmite Serial Number (SMIL20215 for our Hydrolite)
  - Pass Key is 1234
- Leave “Serial Port” box unchecked
- Tap “COM Ports” tab which is located to the left of the “Devices” tab after connecting to the Sonarmite.
  - Assign the Sonarmite an Outgoing Port (5 is the only option listed as of 03/2017) so that is what is used.
  - If under COM Ports SMIL201215 is not listed as (COM5) go back to Devices and disconnect the Bluetooth connection to the Hydrolite by clicking and holding on the Hydrolite device and clicking delete. Start again at the top of this block of directions by searching for the Hydrolite.

### **Configure Terrasync to use Sonarmite as an External Device**

Always check that the options below are selected correctly. It does seem that as long as Sensor 2 is selected, all of the options are saved correctly.

- Tap upper dropdown and select “Setup”
- Tap “External Sensors” (bottom right corner)
- Make sure that Sensor 2 is checked (or Sonarmite) and tap “Properties”
  - Set “Port” to the COM you assigned the Sonarmite to (COM5: SMIL201215)
  - Baud: 4800
  - Data Bits: 8
  - Stop Bits: 1
  - Parity: None
  - Set Prefix to: \$SMDBT
  - Set Suffix to: ,f
  - This will bring depths in as feet
    - For depth in meters Set prefix to: ,f and suffix to: M, (Note as of 03/2017 only feet have been successfully imported. HOWEVER, importing as meters has not been tried)
  - Max Bytes: leave blank
  - Time Out: 0.00s
- Set Receive mode: Unsolicited
- Logging Intervals (Point Feature, Line/Area Feature, Not in Feature): ‘All’ for them all
- Data Destination: Uninterpreted (note, this is different than the Set-up manual from Seafloor systems has but was the difference between working and not working using our system.)

**Configure the rest of Terrasync as you normally would (you can collect continuous data in either “point” or “line” survey modes)**

- Start logging data to a file
- Check that the Sonarmite is outputting data
- Tap upper dropdown and select “Status”
- Tap lower dropdown and select “Sensor”
- Verify that the sensor is active and sending numerical data. Numbers should be increasing

#### **Data Export using Pathfind Software**

- Under the data tab, below the *Create Point Features From* section
  - Make sure ‘Sensor Records’ is checked. This is not a default.