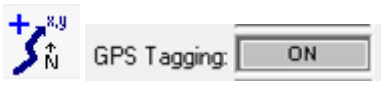
SeaLINK Cheatsheet

Turning Maggie ON:

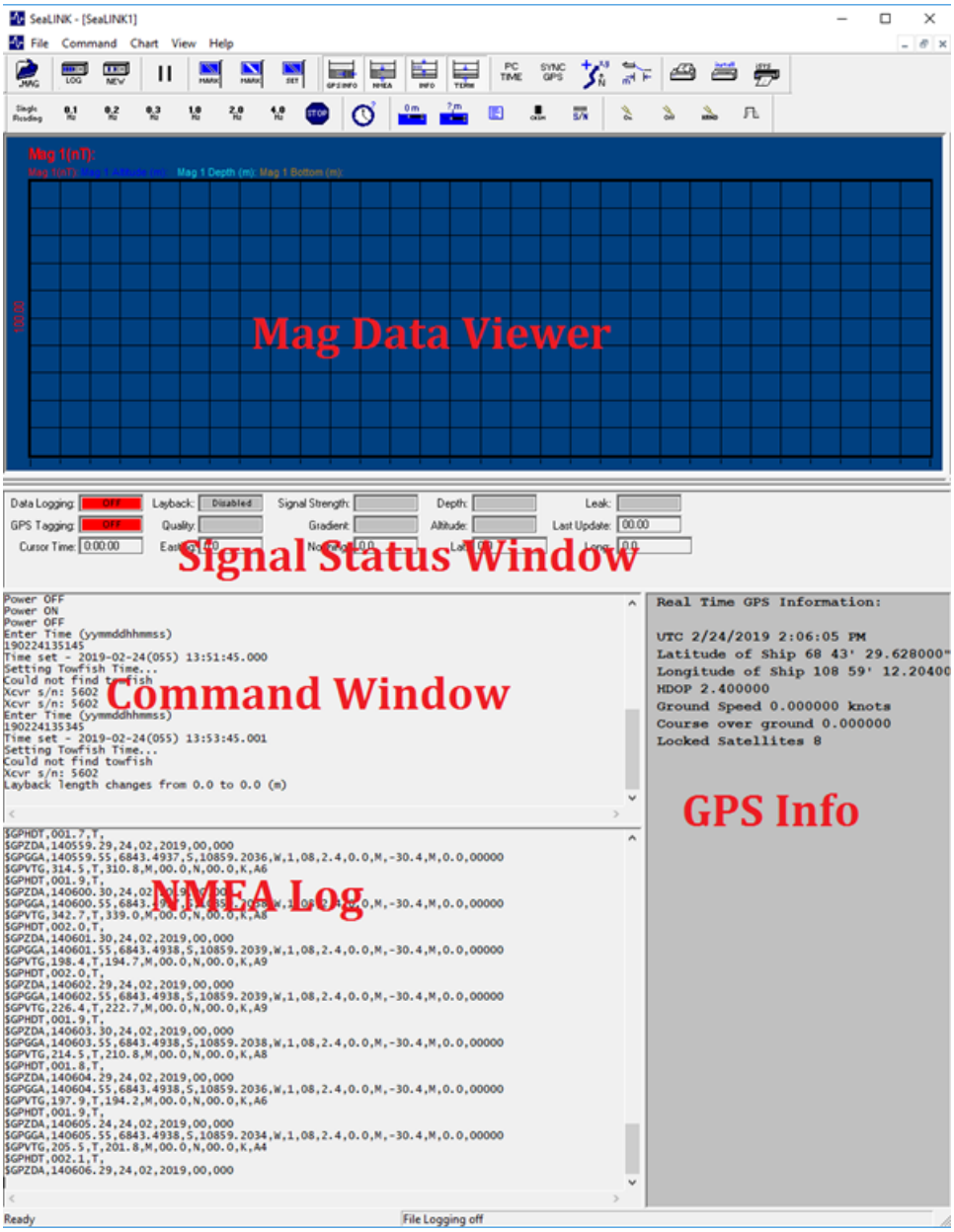
ACTION	SYMBOL	RESULT
Call the Bridge (**200**) and ECR (**290**) and tell them you are deploying the maggie		Get the OK to before proceeding
Connect cable to towfish		Towfish is connected in a secure place on the fantail
Turn on power to isolation transceiver		Blue light flickers and goes off then solid green light
Launch **SeaLINK software** on the opposite computer that the Winfrog software is running		Ignore Repeat Functionality Disabled error for now. Okay through any Sync messages.
Power up (**Ctrl-O**) (May turn off if already on)		Command window will read: Power ON
1. Test by pressing **2 x spacebar** to acquire time		Command window will read: 'Towfish not synced' in first line followed by 'Setting Towfish time' and finally 'Towfish time was set'
1. Enter '**d**' command in command window to confirm parameters		This will display your output parameters in the command window and should read close to these values. (Between 013-015mA, and 00.6-00.8W is acceptable). Output 47.6V, 014mA, 00.6W ' S:006 B:+47.9V T:+022.3C D:+000.4m
1. Make sure Data Logging is set to **OFF** while setting up Towfish parameters		Data logging status will now be **OFF**
Stop magnetometer cycling by clicking 'Stop cycling of Mag' icon		Command window will read: Cycling off
Check NMEA GPS data is coming in from Winfrog	NMEA Window is on bottom left just below command window	Window will be scrolling as new GPS info is being received from Winfrog software. ***If not receiving GPS continuously,*** refer to the Winfrog User Guide on either (1) Adding and Editing I/O devices through COM ports, (2) Adding NMEA Output Device, or (3) ask the LO/Underway Tech to help connect). The NMEA to SeaSpy or Magnetometer device should be through COM11.
Get the towfish in the water, just below the water line		Towfish is just far enough out to be stable in the water.

1. After 15 minutes to equilibrate pressure and temp, zero pressure sensor	or '**p**' in command window	Command window will ask 'zero pressure Y/N'. Press Y and command window will read: 'Zero pressure is * mV'
1. Spool out the cable		Towfish is now at its full towed length. Refer to Maggie User Guide if unsure where to stop the spool.
1. Sync time source	or **F7**	Command window will read: 'Time set - *current date and time* followed by 'Setting towfish Time…'
Enter layback length **(0m)** True layback offset is set in WinFrog, the GPS data coming into SeaLINK will already have this offset applied.		Command window will read: 'Layback length changes from *.* to 0.0 (m)'
Sync GPS with towfish	or **F8**	Be patient until you receive 'Synchronization failed' error. Click 'Okay' *(Unsure if this step is necessary)*
Click 'Appending GPS position to Fish output' icon		GPS Tagging status should now be **ON**
Turn on Auto tuning	or '**x**' in command window	Command window will read: 'Auto tuning on'
Create a new logging file with 'Start logging on a new SeaLINK file' icon.		New file will be created automatically in C:\Exp Mag Data\EXP#
Cycle at **0.3Hz** by selecting **0.3Hz** icon		Command window will read: 'Cycling at 0.3Hz'
Start logging data with 'Toggle SeaLINK File Logging' icon		Data Logging status will now be **ON**
Check signal status indicators	Status readouts located above command window	Should have **NO RED** indicators, YELLOW is acceptable, GREY is good
Call the Bridge (**200**) and tell them maggie is deployed		
Open Windows File Explorer and make sure that the files are being written/updated		
Go to LO office and connect monitor to the Winfrog computer running SeaLINK software		Maggie can now be monitored from LO office. **Done!**

Turning Maggie OFF:

1. Stop data cycling (STOP icon)
2. Stop data logging (press LOG icon)
3. Turn off power to towfish (CTRL-O letter, not number)
4. Disconnect power to isolation transceiver (on/off switch next to blue box)
5. Retrieve towfish being careful to spool the line neatly
6. Spray incoming cable with fresh water and rinse towfish with fresh water on deck.
7. Dry the brass cable and towfish connector (nose) with air. Lightly coat the brass connectors with WD-40.

8. Remember to spray pressure sensor port with air.
9. Let bridge (200) and ECR (290) know the magnetometer has been retrieved.



Archive Versions

SeaLINKCheatsheet.pdf - Feb. 24, 2020