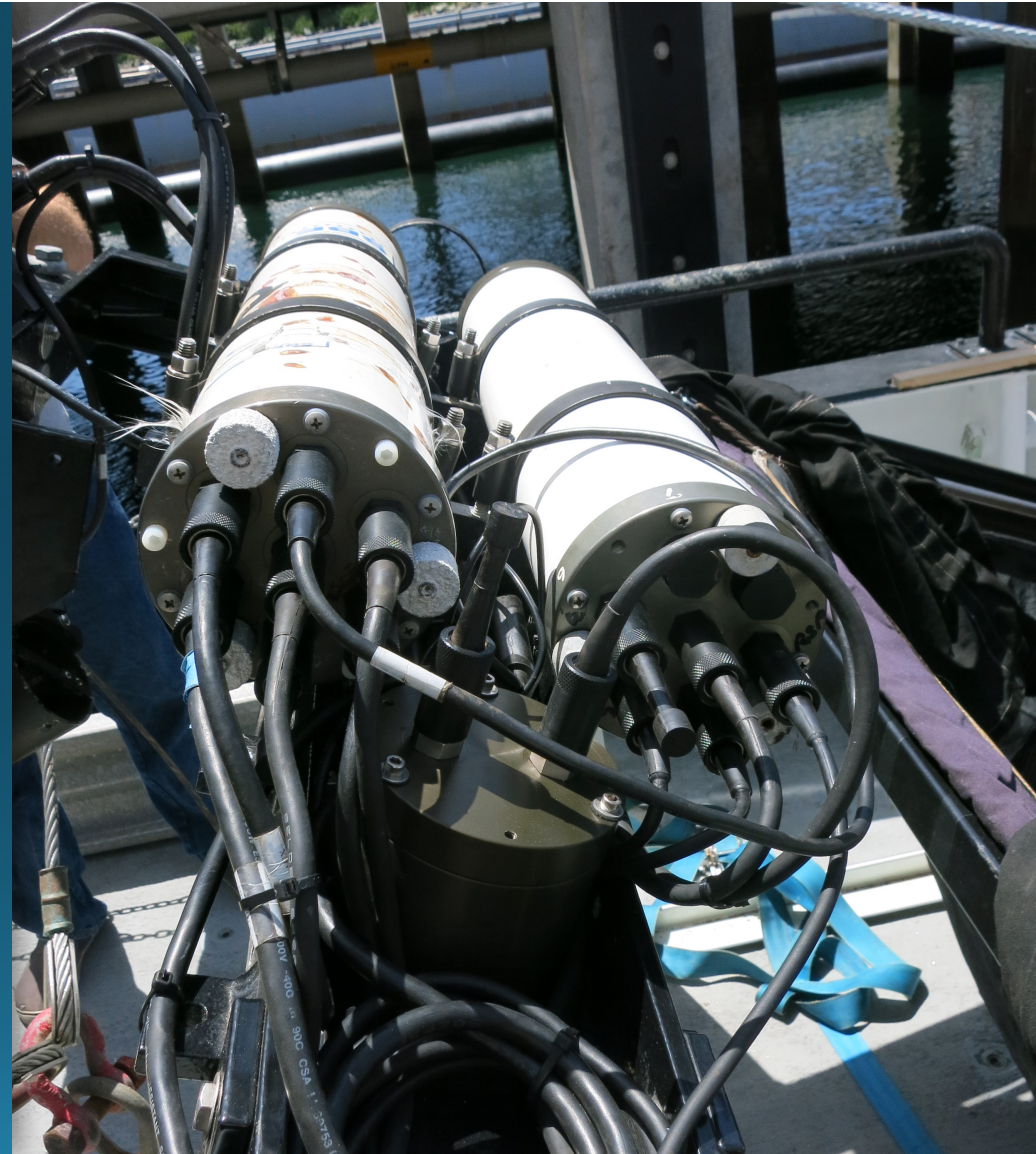


Scripps Institution of Oceanography, UC San Diego
MOCNESS Interface Update

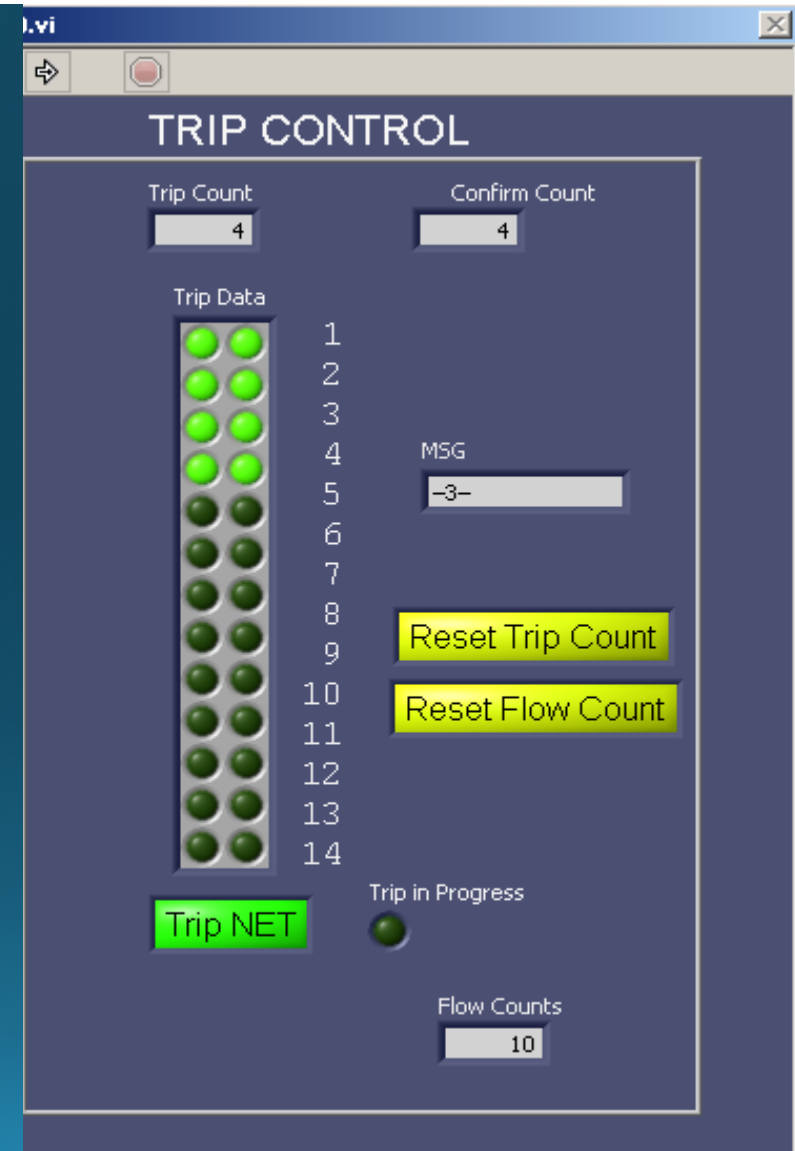
2017 Cruises

- Jan 2017 *R/V Sikuliaq*
- May 2017 *R/V Revelle*
- July 2017 *R/V Sproul*
- October 2017 *R/V Pt. Sur*



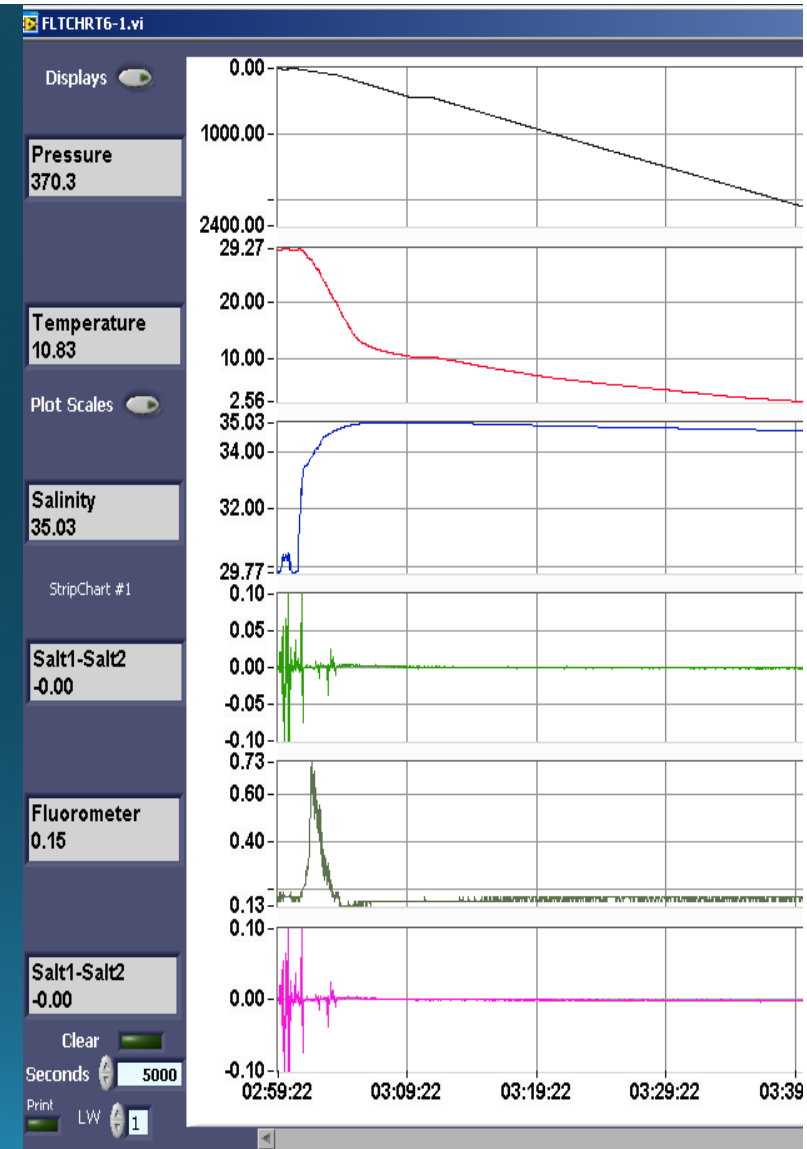
Software Development – Net Trip Control

- Added ability to single step motor control
- Added ability to set and reset net trip and flow counts
- Improvements to net trip response timing and manually confirm net trip
- Visual CTD parameters for each net trip



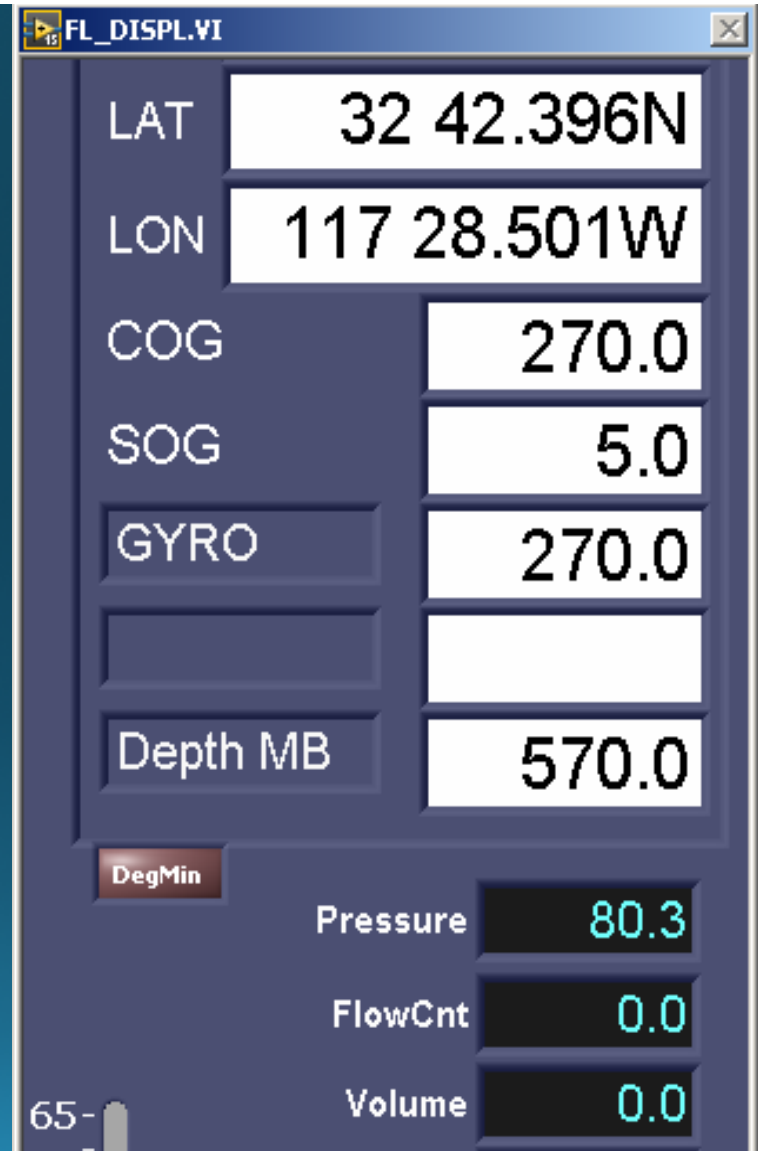
Software Development - Plots

- Improved plot setup parameters, auto scale, manual scale and ability to save plot parameters
- Added net response marker to indicate net trips on plots
- Added ability to setup plots before starting acquisition



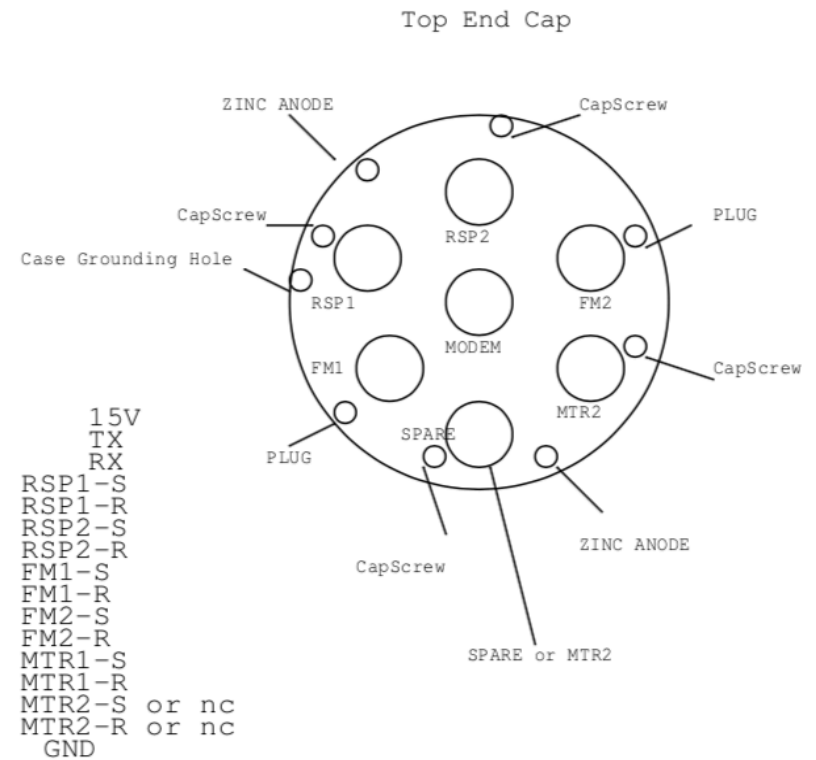
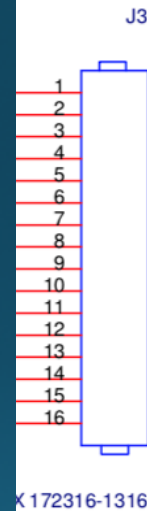
Software Development - Acquisition

- Added a deck trip mode to allow testing of the net trip motor, response switch and flow meter
- Added the ability to view the CTD and motor voltages at all times
- Improved volume filtered calculation
- XML.con files saved for each tow
- Added the ability to compute and display the flowmeter calibration factor every two minutes in order to monitor performance



Hardware Development

- Design of pressure case
- Power from SBE 9
- Expansion ports for future use
 - Secondary net trip response switch
 - Strobe system
 - Secondary motor



Packing List

- MOCNESS Interface
- Net Angle Sensor
- 6 cable assemblies MCIL-2-FS-MCDLS-F to IE2M-7/16 48" long (2 motor, 2 flowmeter, 2 net response)
- 2 cable assemblies MCIL-6-FS-MCDLS-F to MCIL-6-FS-MCDLS-F 48" long (MOCNESS interface, net angle sensor)
- 6 MCDC2F 2 pin dummy plug with locking sleeve
- 1 MCDC6F 6 pin dummy plug with locking sleeve

Build Status

- 6 interface electronics funded July 2017
- Component delivery began August 2017
- First interface delivered Oct 2017
- Complete 6 funded interfaces by end of year

Contact and Questions?

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