Sampling notes, Line P cruise, 2012-13, 14 – 30 August 2012

CTD/Rosettes:

54 files, 0001 to 0090.

0 stand-alone CTD.

51 rosette casts.

CTD 0550 for casts 0001 to 0084; CTD 0506 for casts 0087 to 0090.

Deck Unit 0471

All cast done mid-ship station

Seasave version 7.21b?

Configuration file:

7 different configuration files were used on this cruise:

 506 Line P Aug 2012 back up fish.xmlcon

 550 Line P Aug 2012 dual fluos.xmlcon

 550 Line P Aug 2012 with alt.xmlcon

 550 Line P Aug 2012 with altimeter.xmlcon

 550 Line P Aug 2012 with PAR.xmlcon

 550 Line P Aug 2012.xmlcon

 Alt fix.xmlcon

Standard procedure:

The rosette was brought to the surface. Pumps were turned ON. Then the rosette was brought down to 10m and back up. Data started to be archived then, with the rosette at the surface for a short time longer. Then the cast would start.

The syringes were usually used between stations.

Problem casts:

File 0029; Deep cast at P12.

Downcast not archived, we only have the up cast.

File 0040; Light cast at P16.

Even though 12 Niskins were closed, the .bl file is empty. Would it be possible to somehow extract the bottle data by using the CTD file?

File 0041; Deep cast at P16.

0041 is the downcast to 400 dbar. 0041b is the rest of the downcast and the up cast. The altimeter wasn’t working on the way down, so Scott stopped the file and changed the config file, then continued with 0041b, new config file. The PAR sensor was left on the Rosette for that deep cast.

File 0084; P35.

The Seasave software froze at the bottom. They had to exit seasave and restart it. File 0084 is the whole downcast. File 0084b (I wrote 85 in the logbook so that the 0084b file could be renamed 0085 for IOSShell) is the last 45 dbar of the up cast, just enough to close the Niskins.

Niskins at CTD/Rosette casts:

Cast 0003; P2 Deep cast: Only one Niskin got closed at 75 dbar, so only 7 Niskins used instead of 8. Depths all wrong on the labels.

Cast 0005; P2 DMS cast: Niskin 15 got closed by mistake at the surface instead of Niskin 11. Since we didn’t notice that right away – all we saw was that Niskin 11 was open – we did not collect the surface sample.

Cast 0025; P11: 4 Niskins closed, out-of-order, instead of 2 as on the Rosette log sheet.

Cast 0055; P20: Last 3 Niskins not closed …

Cast 0058; P20, DMS cast: Niskin 15 was “closed twice”. The first time (6th bottle closed) it was closed at the correct depth of 55, the second time (16th bottle closed) it was closed at 5 (but already closed of course). Niskin 13 was supposed to be closed at the surface but didn’t get closed at all. Since Niskin 17 was closed at the surface instead, we took sample number 442 out of Niskin 17. ONAr came out of Niskin 16, sample 445.

Calibration cast

Cast 0065, P25.

Out of order (User input) rosette casts:

0005, 0008, 0020, 0025, 0026, 0042, 0057, 0058, 0069, 0070, 0072, 0076, 0077, 0079, 0087.

Files with PAR sensor:

0001, 0002, 0003, 0005, 0006, 0015, 0016, 0026, 0034, 0041, 0042, 0057, 0058, 0063, 0069, 0070, 0071, 0072.

Loops:

5 loops taken while underway on the way back, named loop 1 to loop 5, for Salinity, nutrients, dup chlorophyll and dup HPLC.

TSG:

There are 7 TSG files, 0001 to 0006, and 2012-12-0012. Following the black-out in the main lab the TSG Sea-save must have defaulted back to the 2012-12 folder. The position updated properly and the flow seems to be a lot better than during the last cruise.