Sampling notes, Line P and Chatham Sound cruise 2021-006,

2 to 18 May 2021

CTD/Rosettes:

94 files, 0001 to 0141.

0 stand-alone CTD.

84 rosette casts.

5 casts with no bottles

1 cast needed two files (70/71)

1 file not needed (0042)

CTD 0443 used for the whole cruise.

Seasave version 7.26.7.121

Configuration file:

The config file 443April2021\_Tully\_main.xmlcon was used for all casts.

Standard procedure:

The rosette was brought to the surface. Pumps were turned ON. The rosette was brought down to 10m and kept there for 30 seconds. Once back at the surface, the data started to be archived, with the rosette at the surface for 30 seconds longer. Then the cast would start.

For depths deeper than, and including, 125 dbar, we would wait 30 seconds before closing a bottle. For depths shallower than, and including, 100 dbar, we would wait 60 seconds before closing a bottle.

For casts 0089 onwards there was no “dip” to 10m at the beginning of the cast; the software was set to “start archiving right away”.

Problems with CTD:

Cast 0042, P13: realized at 1350 dbar on the way down that the pumps were not on. Redo in cast 0043. Data not good. File not needed, has no bottles.

 Loop 5042 will have to be renamed 5043.

Cast 0070 – P24: SeaSave stopped at 1000 dbar on the way down. Cast 0071 started

Niskins & Samples at CTD/Rosette casts:

Cast 0002 – SI: all 24 Niskins closed only for testing, no sampling done, no CHE file needed.

Cast 0015 – P3: No Niskin closed.

Cast 0137 – CH28: shallower than planned, bottles 3, 4, 5 not used.

Cast 0140 – OGCH50: bottle 3 closed too early, skip it and use bottles 4 to 10 instead.

File names – Headers:

Cast 0029 – P8: wrong file name, should be file 0030.

Cast 0032 – P10: wrong depth in header, is 2330, should be ~2640.

Cast 0043 – P13: wrong depth in header, is 3236, should be ~3020.

Cast 0046 – P15: wrong depth in header, is 3300 should be ~3400.

Cast 0055 – P17: wrong depth in header, is 4112, should be ~3600.

Cast 0064 – P20: wrong depth in header, is 4045, should be ~3960.

Casts with no PAR sensor:

0039 – P12 Deep; 0052 – P16 Deep; 0064 – P20 Deep; 0077 – P26 Deep.

Casts out of order:

0003 – Haro59; 0006 – JF2; 0010 – P1; 0026 – P7; 0032 – P10; 0034 – P11; 0057 – P19;

0066 – P21; 0067 – P22; 0072 – P25; 0096 – CH03; 0124 – CH19; 0137 – CH28 (not out of order, but bottles 3-4-5 not used);

Casts with no Niskin closed:

0001 – SI03 (test cast).

0015 – P3.

0042 – P13 (pumps not on, data not good).

0070 – P24: SeaSave crashed on the downcast, bottles were closed on cast 0071.

Files with a difference between System Upload Time and NMEA Time ≥ 10 minutes (NOT

looking at the seconds).

0003 – Haro59: 10 min; 0010 – P1: 11 min; 0040 – P12 UVic: 12 min; 0046 – P15: 10 min;

Loops:

See loops log.

TSG:

We used the SBE-45. All files in SCS format.

Fluorometer was cleaned on 11 May 2021, ~1330 (UTC).