Sampling notes, Line P cruise 2021-001, 30 January to 18 February 2021

CTD/Rosettes:

104 files, 0001 to 0170.

0 stand-alone CTD.

53 rosette casts (SI only a test cast) + 1 (see cast 0046 – P9).

0 cast needed two files.

1 file not needed (0001)

CTD 0550 used for the whole cruise.

Seasave version 7.26.7.121

Configuration file:

The config file 2021-001Start\_checkedRF.xmlcon was used for all casts.

Standard procedure:

For casts 0002 to 0094:

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.

Cast 0102: The rosette stayed at the surface for ~1 min while archiving (start archiving manually), then the cast started.

Casts 0103 to 0170: the CTD was set to start archiving immediately, NOT manually, the rosette was kept at the surface for ~1 min, then the cast would start.

Problems with CTD:

Cast 0051, P12-Deep: the bottom pressure seemed off. Normally at P12 we stop at 3275 dbar. This time it stopped at 3229. The location was good.

Niskins & Samples at CTD/Rosette casts:

Cast 0001 – SI: all 24 Niskins closed only for testing, no sampling done, no CHE file needed.

Cast 0039 – P5: Niskin 14 closed at surface just to test, not needed.

Cast 0040 – P6: Niskin 14 closed at 5 just to test, not needed.

Cast 0046 – P9: the 5-m Niskin was forgotten. The rosette was re-deployed to close the Niskin but no archiving was done.

Cast 0166 – KC10: Niskin 15 to 24 closed at the surface but not needed, no sampling.

File names – Headers:

Casts 0001 to 0025: wrong cruise number in headers, is 2020-001, should be 2021-001.

Cast 0006 – JF2: wrong station name, is JDF2, should be JF2.

Cast 0019: wrong station name, is Conception Pt, should be Conception.

Cast 0023: longitude in the header and longitude in the logbook are very different. Nominal station location is more like the one in the logbook.

Cast 0039 – P5: wrong depth in header, is ~2300, should be 2100.

Cast 0040 – P6: wrong depth in header, is 2005, should be 2564.

Cast 0041 – P7: wrong depth in header, is 2005, should be 2525.

Cast 0049 – P12 DMS: wrong depth in header, is 3275, should be 3233.

Cast 0057 – P14: wrong depth in header, is 3201 should be 3306.

Cast 0058 – P15: wrong depth in header, is 3300 should be 3411.

Cast 0063 – P16: wrong depth in header, is 3682 should be 3633.

Cast 0067 – P18: wrong depth in header, is ~3360, should be 3900.

Cast 0110 – CMP1: wrong station name in header, is CPM1, should be CMP1. Also depth should be changed for 365.

Cast 0121 – SC58: wrong depth in header, is 537, should be 521.

Cast 0133 – Doug-5E: wrong depth in header, is 213, should be 236.

Cast 0140 – GC74: wrong depth in header, is 165 should be 137.

Cast 0151 – DeC-21: wrong depth in header, is 208, should be 237.

Cast 0170 – North Ajax: wrong depth in header, is 270273, should be 275.

I don’t know what the standard naming procedure is for the North Coast Monitoring stations, i.e. Doug-05E, Doug-5e, Doug5E, Doug5e, Doug05d …..

Casts with no PAR sensor:

0051 – P12 Deep; 0055 – P13; 0057 – P14; 0058 – P15; 0061 – P16 HPLC; 0063 – P16 Deep; 0067 – P18; 0069 – P19; 0075 – P20 Deep; 0077 – P21; 0078 – P22; 0082 – P24; 0084 – P25; 0085 – P35; 0091 – P26 HPLC; 0092 – P26 Deep.

Cast out of order:

None.

Casts with no Niskin closed:

0046 – P9: the 5-m Niskin was forgotten. The rosette was re-deployed to close the Niskin but no archiving was done.

Loops:

See loops log.

TSG:

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