

NAAMES

March - April 2018

⇒ NOTE the accumulation of biofouling on the tygon tubing, starting April 3-4. Pieces were detaching and passing through instruments when the tubing was squeezed during cleaning/debubbling.

2018/03/20

17:08

Start in-line system 17:08:

• instrument order: ACS → BB3 → LISST → WSCD
↳ ALFA
↳ JFCB
↳ FRR

2 debubblers (small)

Wayne switch system

Fresh 0.2 μ m filter (was in tap water all night)

No bubbles at all leaving puerto rico

Water coming from pump is pulsing

~~Leak on filter~~ Feeding on switch system is cracked and leak
↳ working on a fix

Data before 2018/03/20 17:08 from BB3 + WSCD is total
↳ this is bubble!

10s to get 0.5 L → 3 L/min when FlowControl 1.234

↳ adjusted the K factor in FlowControl 4000 → 1381
↳ volume looks reasonable now

21:12

Stop In-line entering British values ~~4000~~ 1381

2018/03/21

12:47

12:57

14:40

Run DI through ACS + LISST
↳ BB3 is with James for calibration with Malox
↳ LISST was not covered with brackish

Clean ACS + LISST

Start In-line

19:38

Computer of InLine crashed → Blue screen !!!

↳ restart the in-line

↳ LISST had to be reset to avg 250 samples

Re-sync time went back by 5 min
↳ EFCB

24:40

2/18

48

InLine computer went down

↳ changed flash lamp delay to 150/3

Many bad runs were done to position the camera
Run 1 just 5min + debug from InLine

~~Stop InLine~~

~~221032442 Start InLine~~

~~T 171410 InLine after beach and tide cycle~~

~~1 215146 Change camera gain setting from 1 to 6 with Gilliver
in between the 2 runs~~

~~1 20232 Stop InLine~~

~~1 131013 Run Spool from Bryan id: 06/82~~

~~↳ concentrated through good during 12h from InLine~~

~~1 35785 Start InLine~~

2018/03/22

InLine

1:49

InLine computer crashed (blue screen)
↳ Lenovo E530

Restart inLine on HP computer

InLine ^{Flow Control} ~~computer~~ was stopped on ~~Flow Control~~
on Total

16:16 Stop inLine

clean ACS, BB3, LISST

Run DI ACS, BB3, LISST

↳ attenuation of ACS is much higher ~0.6

16:59 Restart InLine

2018/03/23

15:41 Force InLine to Filter

15:58 Stop InLine

clean ACS, BB3, LISST

16:25 Run DI: ACS, BB3, LISST → fog of 13 cover LISST
with dark plate box

16:38 Restart InLine

2018/03/24

Buy in Compass Schedule → stop automatically
saving file

11:53 ACS keeps drifting

16:15 Run DI thru ACS301, BBS, LISST
DI c = 0.7 for ACS

17:00 Run DI through new ACS 298
↳ 450 mm O for both a and c

17:12 Start inline with ACS 298
ACS98 spectrum looks good & it's a little less stable than the other ACS301

18:15 Switch was in force total & moved it to auto

2018/03/25
16:26 Restart Flow Control restarted after crash

16:45 Stop inline
Cleaning

16:45 Run DI
ACS
c(450) = +0.025 m⁻¹ BB3 81 83 65 FDOM M
a(450) = -0.025 m⁻¹ 470 592

16:55 Restart Inline

03/26 change filter + dark BB3

14:55 Switch to filtered
compressor is doing a job for only 2 minutes

15:05 Run
c(450) = +0.025 BB3 90 90 82 FDOM 12
a(450) = -0.025 470 592 660

15:26-15:35 Dark BB3

In Line

2018/03/27

16:08 Stop Inline

Clean instruments

16:40 Run DI through instruments

16:50 Resume Inline (forced filtered for 20 min)

generally more air in system
↳ bubbles go to second debubbler

17:12 ACS started logging (was not running before)

2018/03/28

16:37 Switch to F. Filter
↳ get 2 mins for ACS

16:40 Switch back to auto

17:10 Stop inline + clean instruments
only ACS running

17:30 Run DI from Jason → LISST chamber was leaking during DI

17:40 Face Filter

2018/03/29

01:51 Bubbles going through the 2 debubblers!
⇒

12:20 Stop inline
Clean ACS, LISST, WSCD, BB3
↳ get time between WSCD

12:40 Run DI from Jason → DI from Jason would have less com?
↳ according to games

12:50 Resume Inline (20 min filtered)

03/30
10:45
11:00

Switch to filtered

Stop inline

Clean ACS, BB3, LISST

↳ BB3 had a few big particles in it.

Run DI from Atlantis

11:45

Resume Inline in Filtered

1:55

autowatch

Stormy weather de-bubblers get out handle a lot of bubbles

Filtered flow is 103 L/min when total is 5 L/min
⇒ Switch filter tomorrow

03/31

Switch to filtered

15:31

Clean BB3, ACS, LISST ✓

Run dark on BB3 ✓

Change filter to 0.2µm MNY921EGS ✓
PIN: 1222470
Lot#: 60518663

DI Run → DI water was too warm & degassing
↳ bad DI Run
↳ DI from Jason

16:33

Resume Inline (paced filter)

17:30

Flow control stuck on filtered

04/01/2018

time 3:34 GMT; last file on dashboard ^{Inline} is now is from 01:29. Tried to connect to remote desktop but would not connect. Turned off IFCB, (could not shutdown through the normal route)

2018 04 01
1434

Switch to 10 mins of filter pre-cleaning

1515

DI water files created
DIW from Jason's UV treated system, de-bubbled for 24 hrs
Filtered running (force filter) after de-bubbling system

1528

17:00

Moving a lot!

2018 04 02

16:30

Stop Inline

Clean

17:—

Run DI

2018 04 03

11:30

Found BB3 not responding
↳ unplug from system
no BB box straight from ACS to LISST

11:58

Changed BB3 cable
↳ BB Box back In Line

14:20

Stop + Clean

04:03
5:12

Flow rate of 3.0 L/min on Filtered

20-19:46

Air in BB box + LISS
↳ BB3 off for a few minutes
↳ testing fused wire

04:04
15:15

Stop inline

Dark BB3 57 50 65
Clean 670 532 660

Run DI

↳ issue with BB3 box → lot of white things coming into the box

↳ BB3 taken DI run at the end

Change filter P/N 1222470 Lot#: 60548460 0.2µm

11:18

Resume InLine

Big particle detaching from tubes and going into instruments

18:30

FIT spec from ACS is unstable

19:50

A little unstable

04:05

Stop inline Alarm went on!

17:15

~~Stop inline~~
Clean instruments

Run DI issue of white coating going off the tubing and getting in BB box
ACS not like usual

2018 04 06
15:30

Stop inline
Clean

In Line

Run DI twice 2x20L
14:56 first run
ACS looks good
15:03 second run
BB3 too high at the beginning start looking reasonable at 15:07

15:30

Resume InLine

↳ issue of bubbles when on filtered
→ flow rate is low 2.5 L/min on filt
3.5 L/min on test
→ white film inside tubes

PDOM higher than usual 14-15 counts

2018 04 07

15:20

Stop InLine

15:50

Clean → some deposit in BB Box
Start DI 20L

BB3 really high at first

16:00

Switch to other DI tank +20L

BB3 reasonable

16:00

LISSST was not being 250 avg → might be since
Switch LISSST back to 250 avg

16:20

Resume InLine

2018 04 08

16:16

Stop InLine

3:05

2:42

Flow rate increase significantly

Water is at 6.2°C much cooler (by ~20°C than before)

lot of bubbles coming in de-bubbler 1

Water is pulsing with pitch of the boat (35 knots only)
↳ little skimming outside

3:04

BB3 + WSCD were not logging

Skimming all part night de-bubbler 1 handle
most of the bubbles
Temp rack up

3:20

Power Failure of the ship

- pump off → No more water
- ACS, BB3, LISS1, WSCD OFF!

3:45

Power is back
→ pump is off

3:52

Cleaning InLine

Run Dark on BB3

Change Filter 0.2µm P/W 1222470 Lot# 60518460

4:50

Run DI

5:00

Resume BB3, WSCD, LISS1

5:10

Resume ACS

InLine

2018 04 10

16:30

Stop In Line

Clear

17:02

Run DI 20L

17:08

Second Tank 20L

17:15

Resume In line

17:30

Switch to total

2018 04 11

01:08

Tube going to switch system went off
↳ water all over the ground
→ filter is full of air but no
air went to instrument
→ wait for end of filtered seawater to
transliterate

2:35

Unstable ACS spectrum
High values in BB3 ducts checking

16:30

Stop inline

17:00

Run DI 40L

2018 04 12

17:17:15

Step In Line

The end of NAMES 4

clean

2:40

Run DE