

Date & Time

17/05/12  
7:02:17

Start inline  
FLBB CD  
Flowthrough

Stop inline: + flow of water too unstable  
+ small leak close to electrode

17/05/13  
8:26:46

Start inline  
FLBB CD → some bubbles  
Flowthrough → only total  
ACs → Not working / No light

8:23:19

Stop FLBB CD → set base vertically  
↳ better evacuation of bubbles

8:29:57

Restart FLBB CD → still some bubbles out  
seen to come from a leak bringing air in

10:32

Noticed BB was really high at 4000 counts  
↳ changed orientation of bar and went down to ~2300 counts  
→ FILL and FLOW are ~60 counts

12:02

Stop inline

13:22

Start inline  
↳ mic flow  
↳ FLBB CD on the transformer / horizontal → Monitor for bubbles  
↳ IFCS  
↳ Flowthrough → Force Total

16:20

Start inline  
ACs  
↳ issue in spectra  
FLBB CD  
↳ new position  
↳ angle of 30°  
IFCS  
↳ run well  
Flowthrough  
↳ auto switch 60 min



2017/5/14

9:12

Inline is running well

↳ ACS spectrum as a wired shape

↳ filter is leaking air in

↳ FL BB CD in good position

↳ could be  $\text{N}_2$

Humidity  
absorption

11:50

IFCB back on inline

2017/05/15

6:13

Stop inline

↳ cleaning

↳ fix air leaking in system

7:18

Start inline

↳ new orientation for FL BB CD base

11:00 - 11:20

trying to remove bubbles coming when in filtered mode

17/5/16

19:09

Green tube of inline going to IFCB lines found banded

↳ no leaks or issues with IFCB

↳ it might impact size distribution as big particles could be stuck there

Inline running well → might have some bubbles on ACS in filtered mode

2017/05/17

15:00

Stop inline → no more water as getting microsome clean ACS

clean FL BB CD

dark dry + DI FL BB CD

scrub of the vortex debubbles after mixed and filter



2017/05/17

18:10 Restart inline

2017/05/18  
11:00 Almost no more bubbles in ALs however latency after switch is longer & domain for BB

16:00 Bubble issue with inline

16:30 restart ACS + FBBCD

17:20 remove vortex de-bubbler after filter  
↳ problem of bubbles comes from system pulling water which creates bubbles at each joint & connection  
→ tighter connections

18:40 add valve after flow meter (end of water) to add back pressure  
↳ no more air leak → might have water leak  
→ Flow is slower 2.4 - 2.7 L/min filtered  
3.4 - 3.8 L/min total

21:35 Inline is running smoothly → water leaking after BB box, ACS and connection after BB  
↳ good sign → no air leak coming in

2017/05/20

5:45 Stop Inline ALs + FBBCD + Flow Through  
→ change filter →  
→ clean ACS  
→ clean FL BBOD + box

6:30 Restart inline



- 2017/05/22 16:00 - 22:00 Passage définitif de Méline (Sicile - Italie)  
↳ higher [beta] and beta  
↳ change in species composition (EPCB) → see what is usually at the DM
- 2017/05/23 14:30 ACs MM stopped sending data during "15s"
- 2017/05/24 5:15 Stop inline for cleaning  
↳ ACS + FLBB CD  
5:45 restart inline
- 2017/05/25 15:10 Stop inline  
↳ feeding microcosm  
↳ clean ACs + FLBB
- 17:43 Start inline → run with cameras of EPCB  
Get cameras failed →  
20170525 17:43 55, EPCB107
- 2017/05/27 2:20 → turn off FLBB CD → run in microcosm + cleaning  
↳ ACs still running  
2:28 2:12 → turn on FLBB CD
- 27 18:58 Unplug FLBB CD → run in microcosm + clean  
19:30 Replug FLBB CD
- 2017/05/28 18:58 Unplug FLBB CD → run in microcosm + clean  
19:30 Replug FLBB CD
- 2017/05/29 5:30 Stop ACs for cleaning  
6:02 ACs clean → restart inline  
7:41 Stop FLBB CD → run in microcosm + cleaning  
8:43 Restart FLBB CD



2017/05/30 2:00 Found inline pulling water again causing air leak  
↳ tighten back pressure valve

18:00-18:15 Tube disconnect between 'a' and 'c' of ACS  
↳ water all over  
↳ back on line

2017/05/02 Control flow was found "Not responding" at 20:00  
17:45 Stop inline & water was off few minutes before turning off logging

↳ D20120502 T 20614 - IFCB 107

↳ Station FAST T-0 Minicosm

Cleaning ACS ✓

FLBB CD ✓

Change Filter ✓

Stopped Computer and IFCB ✓

20:50 Restart Inline

D20120502 T 206133 - IFCB 107

2017/05/03 18:55 Remove FLBB CD for minicosm measurement  
20:00 Restart FLBB CD + clean

2017/05/04 19:38 Stop FLBB CD for minicosm measurement  
20:15 Restart FLBB CD + clean  
↳ did not restart (human mistake)

2017/06/05 4:55 Restart FLBB CD

2017/06/05 19:50 Stop FLBB CD for minicosm measurement  
20:10 Restart FLBB CD + clean



2017/06/06 15:10 Stop FLBB CD  
20:18 Restart FLBB CD *for minimum movement*

2017/06/08 5:10 Clean ACS  
FLBB CD  
5:30 Restart online

18:30 ACS main system  
Notice time of Flowthrough is late of the  
to computer do at the right time  
to flow control crashed → restart  
Comp. no 2.1rc2 using 25% CPU → On line full year  
to restart  
series of app crashed on Flow through computer  
to issue was a memory leak from the pad buffer

2017/06/10 6:37 Water was stopped  
Run 5 bleach in FCB  
Dark FLBB CD