Log

Date	Hour (UTC)	Note
2015/11/16	3:15	Start inline → seeing a bit of Dinoflella Debubble x2
	→4:11←	Restart Acq Inline ↳ Disable view image after 4 min ↳ Disable Debug Dashboard updated every 20 min
2015/11/17	12:45	Stop Acq ↳ Activate Expert tab to change FlashlampDelay Flashlamp already 599µs should be between 60-200
	12:50	Start Acq
	13:24	Stop Acq + Init ↳ Open IFCB to adjust camera Reset Flashlamp delay to 130 not possible ↳ Flashlamp delay is still 599
	14:00	IFCB is close Camera is adjusted Horizontaly → MOV_0152.MP4 Expert tab still on debubble x3
	14:10	Start Acq Inline Gain 0.60 First syringe was checking view image

Date	Time	Note
2015/11/8	13:29	Set PMT B 6 0.~~65~~ instead of 0.60
		Size of waves increased → 7-8 beautiful
2015/11/10	1:36	Adjust focus + 100
		→ Some set of images are centered Vertically others are completely on top
	4:57	→ bot a lot of bubble
	12:50	→ stop Big
		start debubbling
		change configuration of intake
		Might be an issue with vertical distribution of ~~[illegible]~~ due to wave motion of the boat
	13:12	Bleach + Biocide + Debubble
	13:30	Start Acq
		Trigger on fluorescence
		1 Syringe → Inline system stopping from time
		Bubble in might be due to cold water & condensation happened in the ACS
	14:44	Restart acq
	15:57	Bubbles again in the IFCB
		start debubbling
	16:30	Start acq
	18:39	Stop acq - Start Debubble Water <~~4~~°C
	15:51	Rotate IFCB ~~180~~° to set intake closer, shorten intake tubing

Date	Time	Note
2015/11/10	20:11	Start acquisition
	21:50	Stop Acquisition → bubbles 3rd syringe
		Debubble x2
		~~Volume to skip 0.5 ml~~
	22:00	activate Debubble with sample (last volume)
	~~22~~	Start Acquisition
2015/11/10	10:40	IFCB / immediately hyp going up 13.3%
		temperature going down 27°C
2015/11/12	16:45	Stop Acq
		All the acquisition of Stn are run with Debubble with sample
	16:45	Start Acq Stn 1 Bottle 8, 5m
		File: D20151112T164641_IFCB107
		→ 1037 frames & targets
	~~17~~:10	Start Acq Stn 1 Bottle 7, 10m
		File: D20151112T17~~10~~51_IFCB107
		→ 1395 frames 1218 targets
	17:43	Start Acq Stn 1 Bottle 6, 25m
		File D20151112T174340_IFCB107
		→ ~~1007~~ frames 905 targets
	18:10	Start Stn 1 Bottle 5, 50m
		File D20151112T181016_IFCB107
		→ 929 frames 823 targets

Date	Time (UTC)	Note
2015/11/12	18:40	File: D20151112T183936_IFCB107

Start Acq Stn 1 Bottle 4 75m
→ 910 frames 805 targets

19:10 Start Acq Stn 1 Bottle 3 100m
File D20151112T190936_IFCB107
→ 0

⚠ Restart Acq with same Bottle
File D20151112T192127_IFCB107
→ 1047 frames 945 targets

19:47 Start Acq Stn 1 Bottle 2 150m
File D20151112T194732_IFCB107
→ 58 frames 55 targets

20:33 Start Acq Stn 1 Bottle 1 200m
File D20151112T203330_IFCB107
→ 90 frames 86 targets

21:19 Start Acq Inline
~~with~~ + Debubble
with active Debubble with Sample

Date	Time (UTC)	Note
2015/11/14	15:39	Acq Stop

- Station 2 Bottle 8 5m
File: D20151114T154138_IFCB107
→ 2527 frames 2222 targets
- Station 2 Bottle 7 10m
File: D20151114T160843_IFCB107
→ 2381 frames 2082 targets
- Station 2 Bottle 6 25m
File: D20151114T164016_IFCB107
→ 2350 frames 1996 targets
- Station 2 Bottle 5 50m
File: D20151114T170539_IFCB107
→ 2718 frames 2320 targets
- Station 2 Bottle 4 75m
File D20151114T174811_IFCB107
→ 1836 frames 1520 targets
- Station 2 Bottle 3 100m
File D20151114T181437_IFCB107
→ 1906 frames 1528 targets
- Stn 2 Bottle 2 150m
File D20151114T185017_IFCB107
→ 276 frames 239 targets
- Stn 2 Bottle 1 200m
File D20151114T192649_IFCB107
→ 1776 targets

Date	Time (UL)	Note
2015/11/15	10:00	IFCB intake and exhaust were unplugged
		Debubble x3
	11:23	Chlorox
		Biocide
	11:38:43	Debubble with Sampling → Start Acq
	12:23	Set Focus -100
	13:06	Set Focus +200
	16:45	Start debubbling ↳ some bubbles in every sample ↳(1-3)
		Reactivate Debubble with sample
2015/11/16	6:55	Sample Position are still all over the place ↳ there is probably bubble in the shift flow and filter
		→ Run Sample 2 Cone
		• Open IFCB refill filter with FSW issue of contact with ethernet cable when closing
		• Close IFCB
		Still bubble Rods randomly distributed Out of focus
	9:16	Switch to pump 2

Date	Time	Note
	14:57	No more bubble but position of ROI to be set
	15:29	Step Acq
		Start Acq with pump 2 / Debubble + Backflush
Stn 3		Bottle 6 75 m
		Fil: D20151116T153239_IFCB107
		130 Targets + 1 bubble 155854 → 83 targets
		D20151116T162232_IFCB107 ↳ 103 Targets
		Bottle 5 50 m
		D20151116T 170626_IFCB107 → 1037 Targets
		173155 → 877
		175926 → 875
		Bottle 8 5 m
		D20151116T 183115_IFCB107 → 944
		185664_IFCB107 → 206
		192213 → 834
		• Run 4mL with Debubble x15 Faster x10 times ~~no~~ output ~ 3 min/run
		• Prepare 2% Micro (1mL of Micro 90 and 50mL of DI)
		→ turn off Pump (turn off heat) → run sample fast x15) shut off → run debubble → run sample, half way turn on pump → to dislodge any bubble → debubble (clean on → run ~~5~~ seconds to flush micro from system x5 or 6 times ↳ 5mL, 15x faster

The micro trick

Date	Time (UTC)	Note
2015/11/16	22:08	Start Acq
		Pump 1
		Debubble with Sample
		5mL
		Output file
		Blob analysis
		PMT B → trigger fluorescence only
		Clean away 50
		Run Fast double
		View images off
		debug off
		Active
	23:12	Stop Acq → Roi distribution improved but not good enough
		Run micro tick again
		Start Acq again
2015/11/17	12:31	IFCB run correctly again
		↳ position of ROI is way better after a night of sampling
2015/11/18	14:32	IFCB Stop Acq
		→ Run 9 times Samples at 150, ~~100 and 40~~m 1 time at all depth concentrated
		Stn 4
	20:17	Start IFCB Acq

Date	Time (UTC)	Note
2015/11/20	12:21	Stop Acq file 1122019 → is empty run few seconds
		Bille 7, 6, 5, 3 → 1 um non concentrated
		* → 1 um concentrated
		→ backflush with sample
	20:10	Start Acq at T20911
		↳ unclick Backflush with sample
2015/11/21	15:50	taking sample from inline to compare w/ filtered in-line.
		1 liter → 43 mL
	16:04	Stop Acq
	~~16:06:27~~	Run concentrated sample
	16:17:39	↳ ~~Beads~~ + Backflush + Debubble
		↳ ~~same #5 # syringes~~
		x3
		→ adjust focus +200 on first run
	18:16:28	Start Acq again
2015/11/22	11:35	Stop Acq
	11:36:59	Start Acq + Backflush
		→ Concentrated sample of BioCast 1 Stn 6
	13:17:57	Start Acq Inline
2015/11/23	13:06	Stop Acq
		→ T20 6903 is only gone halfway
	13:08:55	Start Acq for Sample + Backflush
	22:1400	Start Acq Inline

15/11/24 13:32 Stop Acq

~~13:33:04~~ Start Acq Samples Stn 7 (day 2)
→ close Software by accident

13:39:31 Start Acq Samples Stn 7 backflush

20:45:00 Start Acq Inline
debubble on backflush off

15/11/25 12:19 Stop Acq

12:20:00 Start Acq Simple Stn 7 (day 2)
↳ Acquisition start by it self after the software stop 2x
backflush

15/11/25 18:52:52 Start Acq Inline

15/11/26 00:59:24 Vertical Alignment issue
→ might be due to drop
in temperature of water
11/26 18:00 → 20°C
11/27 2:30 → 10°C
11/27 4:00 → 8°C
11/27 00:30 → 15°C
11/27 1:45 → 10°C

15/11/27 2:34 Acq Stop
→ Clorox
→ Biocide
→ Beads → unable to see anything

3:10 Try Purge 2
Run Fast x15
+ debubble + backflush → output

3:43 → Not better T032857

4:01 → Seems Good At 2nd syringe T035441
in Acq + Backflush + Debubble + beads every 50
→ may be a little to high

12:26 Acq Stop → Vert Align Done

12:26:09 Start Acq Fast x15 + debubble + backflush
No output

15/11/30 22:15 Stop Acq
End of cruise

22:18:20 Start Acq with Chlorox
run fast x5