

kok1115 BAG-1 Mesocosm - CONSOLE LOG

Cast type	Bottle type	SST 25° 2482	Operator Ken
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- Wetlab ECO-AFL / FL s/n: 2082 (V046)
- LSS -s/n ECO-AFL/Nephelometric 2042 (V7)
- OTG Seapoint Fluorometer s/n NONE 2482
- Biospherical PAR /Licor s/n NONE
- Transmis.. s/n NONE

Time-GMT	Comments
04:10	Dec 2011 Setup Cast [6:10p 5 Dec 2011 HST]

Station: 1	Cast: TEST
Latitude start: 19 26.959 W end: 19 25.7	Longitude start: 156° 4.683' W end: 154 4.323' W
Depth of water: meters 2621	Date (GMT): 12/06/2011
Pressure on Deck Begin: 0.3971 End: 0.279	Time: 04:02 Z Start Log: 0410 Z In Water: 0438 Z
Max cast pressure: 410 dbar	Out of Water: 0520 Z

Trip/Niskin	Time -GMT stopped	Confirm tripped	Pressure dbar	Target Depth-dbar	Comments
1	0455	0458		400 db	Very Calm Condition ~8 miles off Kona
2		0458		400 db	
3		0459		400 db	
4		0459		400 db	
5		0459		400 db	
6		0459		400 db	
7	0503	0503	301.8	300 db	
8		0503	302.3	300 db	
9		0503	302.3	300	
10		0503	302.2	300	
11		0504	302.7	300	
12		0504	302.9	300	
13	0510	0510	100.3	200	
14		0516	100.6	200	
15		0511	100.7	200	
16		0511	100.2	200	
17		0511	100.2	100	
18		0511	100.0	100	
19	0514	0514	15.2	15	
20		0515	14.8	15	
21		0515	15.6	15	
22		0515	15.4	15	
23		0515	14.8	15	
24		0516	15.0	15	

kok1115 BAG-1 Mesocosm - CONSOLE LOG

Cast type	Bottle type	SST 25.073	Operator KD
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- Wetlab ECO-AFL / FL s/n: 2482 (V6)
- LSS -s/n 2482 (ECO-AFL/NEPH (V7))
- OTG Seapoint Fluorometer s/n NONE
- Biospherical PAR /Licor s/n NONE
- Transmis.. s/n NONE

Time-GMT	Comments
1058	Target Depth 200m

Station: 1	Cast: 1
Latitude start: 19 23.620N end: 19.23.613N	Longitude start: 156 04.517 end: 156.04.470W
Depth of water: meters 2912	Date (GMT): 121612011
Pressure on Deck	Time: 1052 Z
Begin: 0.2581	Start Log: 1105
End: 0.1163	In Water: 1107
Max cast pressure: 200.9 dbar	Out of Water: 1126

Trip/ Niskin	Time -GMT stopped	Confirm tripped	Pressure dbar	Target Depth-dbar	Comments
1	1120	1120	14.9	15	
2				15	
3				15	
4				15	
5				15	
6				15	
7				15	
8				15	
9		1121		15	
10				15	
11				15	
12		1122	14.6	15	
13			15.2	15	
14			15.2	15	
15			14.9	15	
16			15.3	15	
17			15.3	15	
18		1123	15.2	15	
19			15.2	15	
20			15.0	15	
21			15.1	15	
22			15.0	15	
23			15.1	15	
24		1123	14.9	15	

kok1115 BAG-1 Mesocosm - CONSOLE LOG

Cast type	Bottle type	SST 25.073	Operator FM
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- Wetlab ECO-AFL / FL s/n: 2482 (v6)
- LSS -s/n 2482 (ECO-AFL/NEPH) (v7)
- OTG Seapoint Fluorometer s/n NONE
- Biospherical PAR /Licor s/n NONE
- Transmis.. s/n NONE

Time-GMT	Comments
1204	200m cast.

Station: 1	Cast: 2
Latitude start: 19 22.832N	Longitude start: 156 04.329W
end: 19 22.752N	end: 156 04.229W
Depth of water: meters 3006	Date (GMT): 12/06/2011
Pressure on Deck	Time: 1203 Z
Begin: 0.6484	Start Log: 1204 Z
End: 0.1693	In Water: 1206 Z
Max cast pressure: 200.4 dbar	Out of Water: 1224 Z

Trip/ Niskin	Time -GMT stopped	Confirm tripped	Pressure dbar	Target Depth-dbar	Comments
1	1218	1218	15.2	15	
2			15.0	15	
3			15.0	15	
4			15.2	15	
5		1219	15.2	15	
6			15.0	15	
7			15.1	15	
8			15.2	15	
9			15.3	15	
10			15.2	15	
11		1220	15.2	15	
12			15.2	15	
13			15.2	15	
14			15.2	15	
15			15.2	15	
16			15.1	15	
17		1221	15.2	15	
18			15.2	15	
19			15.0	15	
20			15.1	15	
21			15.2	15	
22			15.1	15	
23			15.1	15	
24		1222	15.1	15	

kok1115 BAG-1 Mesocosm - CONSOLE LOG

Cast type	Bottle type	SST	Operator KS
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- Wetlab ECO-AFL / FL s/n: 2482 (V6)
- LSS -s/n 2482 (ECO-AFL/NEPH) (V7)
- OTG Seapoint Fluorometer s/n NONE
- Biospherical PAR /Licor s/n NONE
- Transmis.. s/n NONE

Time-GMT	Comments
1252	Zoom Cast

Station: 1	Cast: 3
Latitude start: 19 22.730 N	Longitude start: 156 04.234 W
end: 19 22.780 N	end: 156 04.310 W
Depth of water: meters 301m	Date (GMT): 12/6/2011
Pressure on Deck	Time: 1255 Z
Begin: 0.4807	Start Log: 1255 Z
End: 0.1740	In Water: 1258 Z
Max cast pressure: 200.4 dbar	Out of Water: 1316 Z

Trip/ Niskin	Time -GMT stopped	Confirm tripped	Pressure dbar	Target Depth-dbar	Comments
1	1310	1310	15.0	15	
2		1311	15.0	15	
3		<del>1311</del>	15.2	15	
4			15.0	15	
5			15.0	15	
6			15.3	15	
7			15.2	15	
8			15.0	15	
9			15.0	15	
10		1312	15.1	15	
11			15.2	15	
12			15.1	15	
13			15.2	15	
14			15.0	15	
15			14.9	15	
16			15.0	15	
17			15.1	15	
18		1313	15.0	15	
19			15.0	15	
20			15.2	15	
21			15.1	15	
22			15.1	15	
23			15.0	15	
24			14.9	15	

kok1115 BAG-1 Mesocosm - CONSOLE LOG

Cast type	Bottle type	SST	Operator SJO
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- Wetlab ECO-AFL / FL s/n: 2482 (V6) (input)
- LSS -s/n 2482 (EC-AFL/NEPH) (V7) (input)
- OTG Seapoint Fluorometer s/n 2487
- Biospherical PAR /Licor s/n nom
- Transmis.. s/n nom

Time-GMT	Comments

Station: 2	Cast: 1
Latitude start: 19° 18.705' N end: 19 18.495' N	Longitude start: 155° 59.471' W end: 155 59.3
Depth of water: 2380 meters	Date (GMT): 12/7/2011 12 / 6 / 2011 (local)
Pressure on Deck	Time: 03:52 Z
Begin: 3373 db	Start Log: 03:54:26 Z
End: .048	In Water: 03:57:47 Z
Max cast pressure: 300 dbar	Out of Water: 04:18:56 Z

Trip/ Niskin	Time -GMT stopped	Confirm tripped	Pressure dbar	Target Depth-dbar	Comments
1				300 db	Target Depth Profile Only
2					
3					DCM 85m-90m
4					
5					1x 0-150 mg/l Gain Setting
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

kok1115 BAG-1 Mesocosm - CONSOLE LOG

Cast type	Bottle type	SST 25.21	Operator SP
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- Wetlab ECO-AFL / FL s/n: 2482 (V6 input)
- LSS -s/n 2482 Neph (V7 input)
- OTG Seapoint Fluorometer s/n 2487 V4 input
- Biospherical PAR /Licor s/n NONE
- Transmis.. s/n NONE

Time-GMT	Comments

Station: 3	Cast: 1
Latitude start: 19°18.992N	Longitude start: 155°55.547W
end:	end:
Depth of water: 1270f 1271 meters	Date (GMT): 12/8/2011 14:57 (12/7/2011 14:57)
Pressure on Deck	Time: 05:05z 17:05z
Begin: 0.268	Start Log: 05:06:58z
End: 0.137	In Water: 05:11:40z
Max cast pressure: 301.7 dbar	Out of Water: 05:29:30z

Trip/ Niskin	Time -GMT stopped	Confirm tripped	Pressure dbar	Target Depth-dbar	Comments
1			301.7	300	
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

kok1115 BAG-1 Mesocosm - CONSOLE LOG

Cast type	Bottle type	SST 25.54°	Operator SP
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- Wetlab ECO-AFL / FL s/n: 2482 (V6 Input)
- LSS -s/n 2482 Neph (V7 Input)
- OTG Seapoint Fluorometer s/n 2487 (V4 input)
- Biospherical PAR /Licor s/n none
- Transmis.. s/n none

Time-GMT	Comments
	Wetlab ECO-AFL/FL not sensitive enough
	Seapoint Fluoro works fine
	LSS (ECO - Neph) works fine

Station: 4	Cast: 1
Latitude start: 19° 23.017' N	Longitude start: 155 56.656' W
end:	end: (12/8/11 AST)
Depth of water: 1020 meters (517 fathoms)	Date (GMT): 12 / 9 / 2011 Z
Pressure on Deck	Time: 04:17:00 Z
Begin: .540	Start Log: 04:25:30 Z
End: .135	In Water: 04:28:00 Z
Max cast pressure: 301 dbar	Out of Water: 04:48:20 Z

Trip/ Niskin	Time -GMT stopped	Confirm tripped	Pressure dbar	Target Depth-dbar	Comments
2					SBE43 -2 Not working Always neg - "71"
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

kok1115 BAG-1 Mesocosm - CONSOLE LOG

Cast type	Bottle type	SST	Operator
	24-12L	25.39	JP

- Wetlab ECO-AFL / FL s/n: 2482 (V6 inpt)
- LSS -s/n 2482 Neph (V7 inpt)
- OTG Seapoint Fluorometer s/n 2487 (V4)
- Biospherical PAR /Licor s/n none
- Transmis.. s/n none

Time-GMT	Comments
	Seapoint Works
	Neph - works
	Oxygen 2 - is working

Station: 5	Cast: 1
Latitude start: 19 28.2' N end: 19 28.087' N 25 f	Longitude start: 155 59.202' W end: 155 59.085
Depth of water: 1250 meters	Date (GMT): 10 Dec 01 01:47:47z
Pressure on Deck	Time: 02
Begin: .254	Start Log: 01:47:57z
End: .057	In Water: 01:50:55z
Max cast pressure: 301.1 dbar	Out of Water: 02:10:43z

Trip/Niskin	Time -GMT stopped	Confirm tripped	Pressure dbar	Target Depth-dbar	Comments
1			301.1	300 db	
2					SBE43 - 2 Now working
3					wrong port assigned
4					Now on port V2
5					Profile Cast
6					
7					<del>SW</del> SW of Captain Cook point ~2 miles
8					
9					
10					Inputs
11				1 Freq	Temp
12				2 Freq	Cond
13				3 Freq	Pres
14				4 Freq	Temp 2
15				5 Freq	Cono 2
16				N/O V6	Oxygen SBE43
17				N/O V2	Oxygen SBE43-2
18				N/O V4	Seapoint Fluoro
19				N/O V6	Fluoro Wetlab ECO-AFL/FL
20				N/O V7	Turbidity ECO-NTU Neph
21					
22					
23					
24					



kok1115 BAG-1 Mesocosm - CONSOLE LOG

Cast type 12L-24	Bottle type PACIS	SST 25.385°C	Operator JP
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- Wetlab ECO-AFL / FL s/n: 2482 (V6)
- LSS -s/n 2482 Neph (V7)
- OTG Seapoint Fluorometer s/n 2487 (V4)
- Biospherical PAR /Licor s/n none
- Transmis.. s/n none

Time-GMT	Comments

Station: 6	Cast: 1
Latitude start: 19 33.285' N	Longitude start: 156 01.463' W
end: <u>6.56</u>	end: <u>6.56</u>
Depth of water: 1390 meters	Date (GMT): 12/11/2011
Pressure on Deck	Time: 02:03:57
Begin: $\phi.34$	Start Log: 02:05:28 Z
End: $\phi.18$	In Water: 02:09:50 Z
Max cast pressure: 302.1 dbar	Out of Water: 02:29:55 Z

Trip/Niskin	Time -GMT stopped	Confirm tripped	Pressure dbar	Target Depth-dbar	Comments
1			302.1	300 db	12/11/2011 <del>02:08 Z</del>
2					(≈ 12/10/2011 16:08 MST 4:08 pm)
3					
4		02:31:40 Z	ON DECK		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

kok1115 BAG-1 Mesocosm - CONSOLE LOG

Cast type	Bottle type	SST	Operator
		25.329	SP

- Wetlab ECO-AFL / FL s/n: 2482 (V6 input)
- LSS -s/n 2482 Neph (V7)
- OTG Seapoint Fluorometer s/n 2487 (V4)
- Biospherical PAR /Licor s/n none
- Transmis.. s/n none

Time-GMT	Comments

Station: 7	Cast: 1
Latitude start: 19 40.388' N	Longitude start: 156 03.893' W
Latitude end: 19 40.489' N	Longitude end: 156 03.682' W
Depth of water: 1200 meters	Date (GMT): 12 / 12 / 2017
Pressure on Deck	Time: 03:53:36
Begin: 0.554	Start Log: 04:16:22
End: 0.102	In Water: 04:23:00
Max cast pressure: 301.58 dbar	Out of Water: 04:46:47

Trip/Niskin	Time -GMT stopped	Confirm tripped	Pressure dbar	Target Depth-dbar	Comments
1	04:39:30	04:39:46	151.9	<del>300</del> 150 db	Dark water
2	04:40:10	04:40:15	152.1	150 db	
3	04:44:17	04:44:30	15.24	15 db	
4	04:45:00	04:45:00	15.0	15 db	
5		04:45:18	14.9	15 db	
6					DCM ~ 75m
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

kok1115 BAG-1 Mesocosm - CONSOLE LOG

Cast type	Bottle type	SST	Operator
		25.02	SP

- Wetlab ECO-AFL / FL s/n: 2482
- LSS -s/n 2482 Neph (V7)
- OTG Seapoint Fluorometer s/n 2487 (V4)
- Biospherical PAR /Licor s/n none
- Transmis.. s/n none

Time-GMT	Comments
	a Chris & Sasha Cast

Station: 8	Cast: 1
Latitude start: 20 2.047' N end: 20 2.164' N	Longitude start: 155 57.394' W end: 155 57.080' W
Depth of water: 480 meters	Date (GMT): 12 / 13 / 2011 Z
Pressure on Deck	Time: 02:30:21 Z
Begin: 0.4484 End: 0.1401	Start Log: 02:36:34 Z In Water: 02:39:36 Z
Max cast pressure: 300 dbar	Out of Water: 03:08:17 Z

Trip/ Niskin	Time -GMT stopped	Confirm tripped	Pressure dbar	Target Depth-dbar	Comments
					13 Dec ~ (12 mos HST)
1	02:57:10	02:57:40	46.6	~40 dbar	
2		02:58:10	46.5	~40 dbar	
3		02:58:30	46.8	40 "	(mixed layer) Stopped at 45 dbar
4		02:59:10	46.52	40 "	
5		02:59:35	46.4	40 "	Bottle 3 not fired
6		02:59:55	46.3	40 "	
7		03:00:15	46.4	40 "	
8		03:00:40	46.4	40 "	
9		03:01:00	46.49	40 "	
10		03:01:20	46.5	40 "	
11		03:01:50	46.3	40 "	
12		03:02:10	46.4	40 "	
13	03:03:56	03:04:15	5.2	5 "	
14		03:04:30	5.0	5 "	
15		03:04:50	4.9	5 "	
16		03:05:15	4.9	5 "	
17		03:05:30	4.9	5 "	
18		03:05:50	4.97	5 "	
19		03:06:10	5.2	5 "	
20		03:06:25	5.1	5 "	
21		03:06:40	4.8	5 "	
22		03:06:55	4.7	5 "	
23		03:07:10	5.1	5 "	
24		03:07:20	5.0	5 "	

kok1115 BAG-1 Mesocosm - CONSOLE LOG

Cast type	Bottle type	SST	Operator
	124-24 bottles Rosette	24.394	APP

- Wetlab ECO-AFL / FL s/n: 2482 - (V6)
- LSS -s/n 2482 Neph (V7)
- OTG Seapoint Fluorometer s/n 2487 (V4)
- Biospherical PAR /Licor s/n none
- Transmis.. s/n none

Time-GMT	Comments
Angel Cast	24 bottles @ 75m

Station: 9	Cast: 1
Latitude start: 20 14.053'N end: 20 14.218'W	Longitude start: 156 21.403'W end: 156 22.037'W
Depth of water: ~2600 meters	Date (GMT): 13/DEC/2011 GMT
Pressure on Deck	Time: 05:55:03
Begin: $\phi$ .195	Start Log: 05:55:40
End: $\phi$ .14	In Water: 06:05:53
Max cast pressure: 302.1 dbar	Out of Water: 06:30:18

Trip/ Niskin	Time -GMT stopped	Confirm tripped	Pressure dbar	Target Depth-dbar	Comments
1	06:19:30	06:20:00	78.7	75 dbar	
2		06:20:30	77.9	75	
3		06:21:25	76.6	75	
4		06:21:40	75.8	75	
5		06:22:00	75.7	75	
6		06:22:20	75.9	75	
7		06:22:40	75.6	75	
8		06:23:00	75.6	75	
9		06:23:20	74.8	75	
10		06:23:40	75.8	75	
11		06:24:00	74.7	75	
12		06:24:20	75.2	75	
13		06:24:40	76.7	75	
14		06:25:00	74.5	75	
15		06:25:20	74.7	75	
16		06:25:40	75.7	75 dbar	
17		06:26:00	75.4	75	
18		06:26:20	75.1	75	
19		06:26:40	74.9	75	
20		06:27:00	75.4	75	
21		06:27:20	76.0	75	
22		06:27:40	75.6	75	
23		06:28:00	75.0	75	
24		06:28:20	74.5	75	06:31:49 on Deck

kok1115 BAG-1 Mesocosm - CONSOLE LOG

Cast type	Bottle type	SST	Operator
		24.563	JP

- Wetlab ECO-AFL / FL s/n: 2482 (v6) *not sensitive enough*
- LSS -s/n ECO-Neph 2482 - *good*
- OTG Seapoint Fluorometer s/n 2487 (v4) *good*
- Biospherical PAR / Licor s/n *none*
- Transmis.. s/n *none*

Time-GMT	Comments
Tara + Karin Cast 4 Depth	

Station: 10	Cast: 1
Latitude start: 21 12.463' N	Longitude start: 157 47.282' W
end:	end:
Depth of water: 600 meters	Date (GMT): 12/19/2011
Pressure on Deck	Time: 17:54:54Z
Begin: 0.37	Start Log: 17:56:00Z
End: 0.16	In Water: 18:00:11Z
Max cast pressure: 301 dbar	Out of Water: 18:29:20Z

Trip/Niskin	Time -GMT stopped	Confirm tripped	Pressure dbar	Target Depth-dbar	Comments
1	18:12:00	18:12:40	152.1	150 dbar	
2		18:13:00	150.1	150	
3		18:13:20	149.3	150	
4		18:13:40	150.9	150	
5		18:14:10	151.6	150	
6		18:14:30	151.3	150	
7	18:17:40	18:18:30	79.1	DCM	DCM = 78 db - 80 db
8		18:18:50	78.9	DCM	
9		18:19:10	78.7	DCM	
10		18:19:30	78.4	DCM	
11		18:19:50	79.1	DCM	
12		18:20:15	79.2	DCM	
13	18:22:17	18:22:40	45.0	475 dbar	since DCM so close move from 75 dbar → 45 dbar
14		18:23:00	44.8	475	TARGET = 45 dbar
15		18:23:20	45.6	475	
16		18:23:40	44.8	475	
17		18:24:00	45.6	475	
18		18:24:20	45.5	475	
19	18:25:16	18:25:40	15.2	15	
20		18:26:00	15.0	15	
21		18:26:20	14.3	15	
22		18:26:40	14.9	15	
23		18:27:00	14.5	15	
24		18:27:20	15.0	15	package on Deck 18:30:38Z