

R/V Thompson RCA-OOI Cruise AT50-29 - CTD Cast Log

Station: Endurance Offshore
 Date (Local): 8/8/24
 Start Time (Local/GMT): — 1358/2058
 Start Lat/Long: — 44.3736 -124.956
 Soak Time (mins @ m): —
 Max Cast Depth (m): —
 Bottom Depth (m): —

Cast #/Filename: J2-1602
 Cable Rate Out m/min: —
 End Time (Local/GMT): — 1635
 End Lat/Long: —
 Max Cable Out (m): —
 Chlorophyll Max Depth (m): —
 Sampling Start/End (Local): 1900 - 1920

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
Star								
Jason 1 fwd	200		: O ₂ 337, 338A				• CHL-003	Time: 1534
Jason 2 aft	200			• DIC-106	• NUT-1409	• SA-49		Time: 1535
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

COMMENTS:

R/V Thompson RCA-OOI Cruise AT50-29 - CTD Cast Log

500 m SW of Shallow Profiler

Station: Endurance Offshore
 Date (Local): 08-08-24 / 08-09-24
 Start Time (Local/GMT): 23:55
 Start Lat/Long: 44° 22.16748' N 124° 57.67884 W
 Soak Time (mins @ m): 5 min @ 10 m
 Max Cast Depth (m): 220 m
 Bottom Depth (m): 597 m

Cast #/Filename: CTD-001
 Cable Rate Out m/min: 30 m/min
 End Time (Local/GMT): 0057
 End Lat/Long: 44° 22.167 / 124° 57.679
 Max Cable Out (m): 220
 Chlorophyll Max Depth (m): 10 m
 Sampling Start/End (Local): 0125 - 0235

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	¹⁰ Oxygen	¹² DIC	¹² Nutrients	⁵ Salinity	⁽⁸⁾ Chlorophyll	Notes
1	220	220.2		• 112	• 1410	• 50		
2	220	220.2						
3	200	200.2	• 339A/340A	• 118	• 1411			Doc got water for 7.10 project
4	200	200.2						
5	180	180.1	• 341	• 124	• 1412	• 51		
6	180	180.2						
7	160	160.1	• 342A	• 105	• 1413			
8	160	160.1						
9	140	139.4	• 343	• 111	• 1414			
10	140	140.0						
11	120	120.2	• 344	• 117	• 1415	• 52		
12	120	121.1						Leaked - got hosed
13	100	100.8	• 345	• 123	• 1416		• 9	
14	100	100.8						
15	80	81.1	• 346	• 104	• 1417	• 53		
16	80	81.1						
17	60	61.1	• 347A	• 110	• 1418		• 17 CHL-004	
18	60	61.5						
19	40	41.8	• 348	• 116	• 1419	• 54	• 19 CHL-008	
20	40	41.8						
21	20	20.2		• 122	• 1420		• 21 CHL-002	
22	20	20.0						
23	10	10.1		• 103	• 1421			
24	10	10.0						didn't fire

COMMENTS:

* after last sample only 4 chlorophylls collected

Atlantic
R/V Thompson RCA-OOI Cruise AT50-29 - CTD Cast Log

Station: Slope base
 Date (Local): 8/10/14
 Start Time (Local/GMT): 8:22 Local
 Start Lat/Long: —
 Soak Time (mins @ m): —
 Max Cast Depth (m): —
 Bottom Depth (m): ~200

Cast #/Filename: J2-1605
 Cable Rate Out m/min: —
 End Time (Local/GMT): —
 End Lat/Long: —
 Max Cable Out (m): —
 Chlorophyll Max Depth (m): —
 Sampling Start/End (Local): 08:30 - 8:55 pm

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
1 fwd	200		1.97					leaky bottle, only 1 oxy
2 aft	200			1.36	.NUT-1442	.SA-55	CHL-005	
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

COMMENTS:

No record of Niskin firing in Sealog for J2-1605

Atlantic
R/V Thompson RCA-OOI Cruise AT50-29 - CTD Cast Log

SSE
500 m down current

Station: Slope Base Shallow Profiler
 Date (Local): 8/9/24
 Start Time (Local/GMT): 12:40 PST
 Start Lat/Long: 44° 31.6473 N 125° 21.8245 W
 1224 Soak Time (mins @ m): 5m @ 10m
 Max Cast Depth (m): 220
 Bottom Depth (m): 2922.51

Cast #/Filename: CTD-002
 Cable Rate Out m/min: 30 m/min
 End Time (Local/GMT): 1350
 End Lat/Long: 44° 31.482 N 125 23.266 W
 Max Cable Out (m): 220.8
 Chlorophyll Max Depth (m): ~40 m
 Sampling Start/End (Local): ~1405 / 1947

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
✓ 1	220	220.3		• 109	• 1424			
✓ 2	220							
✓ 3	200	200.5	• 349/350	• 115	• 1423	• 56	• 27	
✓ 4	200							
✓ 5	180	180.3		• 121	• 1425			
✓ 6	180							
✓ 7	160	160.2	• 351	• 102	• 1440		• 33	
✓ 8	160							
✓ 9	140	140.2		• 108	• 1432		• 26	
✓ 10	140							
✓ 11	120	120.6	• 352	• 114	• 1426	• 62		* noticed NODH 1.5L
✓ 12	120							no red back to 1.0L
✓ 13	100	100.4	• 353B	• 120	• 1431		• 37	
✓ 14	100							
✓ 15	80	80.8	• 354	• 101	• 1430	• 57		
✓ 16	80							
✓ 17	60	61.2	• 355A	• 107	• 1427		• 36	
✓ 18	60							
✓ 19	40	41.3		• 113	• 1429	• 63	• 32	
✓ 20	40							
✓ 21	20	21.3	• 356A	• 119	• 1439		• 31	
✓ 22	20							
✓ 23	10	11.6	• 357/358	• 130	• 1428	• 58	• 38	
✓ 24	10							

COMMENTS:

IPAD did not record Nutrients, Salinity, chlorophyll. User error

R/V Thompson RCA-OOI Cruise AT50-29 - CTD Cast Log

Station: Slope Base
 Date (Local): Aug 9, 2024
 Start Time (Local/GMT): 1:10 / 8:10
 Start Lat/Long: 44° 30.7018 / 125° 23.9753
 Soak Time (mins @ m): 5 min @ 10m
 Max Cast Depth (m): 2899
 Bottom Depth (m): 3005

Cast #/Filename: CTD-003.
 Cable Rate Out m/min: 30 m/min first 200 → 60 m/min to 20 above depth
 End Time (Local/GMT): 0320 / 1020
 End Lat/Long: 44° 30.700 125° 23.975
 Max Cable Out (m): 2899
 Chlorophyll Max Depth (m): NA
 Sampling Start/End (Local): NA

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
1	2899	2899						
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24	all collected @ 2899							

COMMENTS:

wanted 30 sec @ depth

pH sensor reattached after this cast - now in vertical orientation instead of horizontal *

Atlantis
R/V Thompson RCA-OOI Cruise AT50-29 - CTD Cast Log

Station: Axial
 Date (Local): Aug 11, 2024
 Start Time (Local/GMT): 1535 / 22:35:19
 Start Lat/Long: 45° 49.828 N 129° 45.161 W
 Soak Time (mins @ m): NA
 Max Cast Depth (m): 200 m
 Bottom Depth (m): ~ 2600

Cast #/Filename: J2-1612
 Cable Rate Out m/min: NA
 End Time (Local/GMT): 1749 / 00:49:02
 End Lat/Long: 45° 49.848 N 129° 45.089 W
 Max Cable Out (m): NA
 Chlorophyll Max Depth (m): NA
 Sampling Start/End (Local):

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
1 <u>fu</u>	<u>200</u>		<u>337/338</u>				<u>CHL-032</u>	<u>time collected: 1704</u>
2 <u>gt</u>	<u>200</u>			<u>016-142</u>	<u>01437</u>	<u>61</u>		<u>time collected 1705</u>
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

COMMENTS:

Not frozen found 8-12 ~ 1600

R/V Thompson RCA-OOI Cruise AT50-29 - CTD Cast Log

500 m down current
00 SP

Station: Axial
 Date (Local): Aug 11 2024
 Start Time (Local/GMT): 1819 / 0119
 Start Lat/Long: 45°49.597 N 129°44.939 W
 Soak Time (mins @ m): 5 min @ 10m
 Max Cast Depth (m): 220m
 Bottom Depth (m): ~2632

Cast #/Filename: CTD-004
 Cable Rate Out m/min: 30m/min
 End Time (Local/GMT): 1917 / 0217
 End Lat/Long: 45°49.598 N 129°44.939 W
 Max Cable Out (m): 220
 Chlorophyll Max Depth (m): ~32
 Sampling Start/End (Local): 2104 ~ 2120

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	10 Oxygen	12 DIC	12 Nutrients	5 Salinity	8 Chlorophyll	Notes
1	220	220		• 148	• 1438			
2	220	220						
3	200	200	• 339A/341	• 147	• 1436	• 59	• 2	
4	200	200.5						
5	180	180.5		• 135	• 1435			
6	180	180.5						
7	160	160.4	• 340A	• 141/144	• 1434		• 33	
8	160	160.4						
9	140	140.5		• 129/137	• 1433		• 31	
10	140	140.5						
11	120	120.5	• 342A	• 146/138	• 1448	• 64		DIC taken after
12	120	120.5						1st sample again b/c bottle confusion
13	100	100	• 343	• 128	• 1447		• 1	
14	100	100						
15	80	81	• 344	• 134	• 1446	• 67		
16	80	81						
17	60	61.9	• 345	• 140	• 1445		• 36	
18	60	61.9						
19	40	40.0		• 145	• 1444	• 68	• 37	
20	40	40.0						
21	20	19.8	• 346	• 139	• 1443		• 3	
22	20	19.5						
23	10	9.8	• 347A/348	• 133	• 1442	• 65	• 8	
24	10	9.8						

COMMENTS:

1st DIC samples @ Niskins 7, 9+11, may or may not be correct
 2nd " " " " " are certainly taken from the respective Niskins

Atlantis
R/V Thompson RCA-OOI Cruise AT50-29 - CTD Cast Log

Station: Slope Base
 Date (Local): Aug 14, 2024
 Start Time (Local/GMT): 11:07 / 1807
 Start Lat/Long: 44.5018 -125.409
 Soak Time (mins @ m): —
 Max Cast Depth (m): —
 Bottom Depth (m): 2902

Cast #/Filename: J2-1617
 Cable Rate Out m/min: —
 End Time (Local/GMT): 2245 / 05:45 Aug 15
 End Lat/Long: —
 Max Cable Out (m): —
 Chlorophyll Max Depth (m): —
 Sampling Start/End (Local): 2320 - 2330

Niskin Bottle #	from sealog Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
1	from 2901		337/338A					
2	2901					SA-60	CHL026	slight leak out of bottom
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

COMMENTS:

* leaky Niskin info to Jason crew. Will put spare Niskin on #1 + maybe #2
 #1 collection time on JASON 2031 UTC 03:31 Aug 15
 #2 " " " 2032 03:32 "

Atlantis

R/V Thompson RCA-OOI Cruise AT50-29 - CTD Cast Log

Station: Off Shore BEP pre-recovery
 Date (Local): Aug 15 2024
 Start Time (Local/GMT): 1001 / 1701
 Start Lat/Long: 44.3707 -124.9529
 Soak Time (mins @ m):
 Max Cast Depth (m):
 Bottom Depth (m): 588

Cast #/Filename: J2-1619
 Cable Rate Out m/min:
 End Time (Local/GMT): 1319 / 2019
 End Lat/Long: 44.3694 -124.953
 Max Cable Out (m):
 Chlorophyll Max Depth (m):
 Sampling Start/End (Local): 15:14 / 15:33

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
1 fwd	588		0339A/340A				0 CHL-005	Slow leak from sampling valve.
2 aft				0 DIC-172		0 SA-0066		Top venting cap not sealed completely
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

COMMENTS:

We asked Jason to put spare Niskins (there) on and they did not.
 before dive

R/V Thompson RCA-OOI Cruise AT50-29 - CTD Cast Log

Station: Endurance Shelf BEP *pre-recovery*
 Date (Local): Aug 16
 Start Time (Local/GMT): 0331 1031
 Start Lat/Long: 44.6377150 -124.307374
 Soak Time (mins @ m): —
 Max Cast Depth (m): 80
 Bottom Depth (m): —

Cast #/Filename: J2-1621
 Cable Rate Out m/min: na
 End Time (Local/GMT): 1003 1703
 End Lat/Long: 44.637733 -124.307033
 Max Cable Out (m): —
 Chlorophyll Max Depth (m): —
 Sampling Start/End (Local): 0847 - 0905

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
1 fwd	80m		341/342A				CHL-016	
2 aft	80m			• 166		• 69		
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

COMMENTS: Jason still did not swap out Niskins

Atlantis
R/V Thompson RCA-OOI Cruise AT50-29 - CTD Cast Log

Station: Endurance Shelf BEP post
 Date (Local): Aug 18, 2024
 Start Time (Local/GMT): 192510225
 Start Lat/Long: 44.6377105 -124.305694
 Soak Time (mins @ m): —
 Max Cast Depth (m): —
 Bottom Depth (m): 82

Cast #/Filename: 52-1623
 Cable Rate Out m/min: —
 End Time (Local/GMT): 211510415
 End Lat/Long: 44.637027 -124.305632
 Max Cable Out (m): —
 Chlorophyll Max Depth (m): —
 Sampling Start/End (Local): 2145 → 2155

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
find @ 2033 1 fwb	80	81.3	337 338A				028	Niskin #3
2034 2 aft	80	81.3		154		70		top opened briefly when picking up
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

COMMENTS:

Atlantic
R/V Thompson-RCA-OOI Cruise AT50-29 - CTD Cast Log

Station: Endurance Off Shore BEP post
 Date (Local): Aug 22, 2024
 Start Time (Local/GMT): 0018 0718
 Start Lat/Long: 44.3701 -124.9524
 Soak Time (mins @ m): —
 Max Cast Depth (m): —
 Bottom Depth (m): 588

Cast #/Filename: J2-1635
 Cable Rate Out m/min: NA
 End Time (Local/GMT): 0339 1039
 End Lat/Long: 44.369508 -124.953678
 Max Cable Out (m): —
 Chlorophyll Max Depth (m): —
 Sampling Start/End (Local): 0355 - 0405

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
1 fwd	588		337/338A				032	
2 aft	588			160		71		
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

COMMENTS:

Atlantis
R/V Thompson RCA-OOI Cruise AT50-29 - CTD Cast Log

500m N of Slope
Base DP

Station: Slope Base Verification ^{Deep} _{Propeller}
Date (Local): Aug 23 2024
Start Time (Local/GMT): 0215 0915
Start Lat/Long: 44° 31.89 N 125° 22.82 W
Soak Time (mins @ m): 5 min @ 10m
Max Cast Depth (m): 2895
Bottom Depth (m): 2900 m

Cast #/Filename: CTD-005
Cable Rate Out m/min: 30 m/min → 200m 60 m/min → with 20m above
End Time (Local/GMT): 0500 1200 depth
End Lat/Long: 44° 31.90 N 125° 22.82 W
Max Cable Out (m): 2895
Chlorophyll Max Depth (m):
Sampling Start/End (Local): 0510 - 0610

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
1	2895	2895						Seaphox (second attempt)
2	"	"						
3	2750	2750	• 339A			• 169		Duplicates didn't happen
4	"	"						
5	2500	2500	• 340A					
6	"	"	X					
7	2000	2000				• 170	• 037	Lost during recovery
8	"	"	• 341					
9	1750	1750	• 344				• 016	
10	"	"	• 342A not taken*					Gasket came off
11	1500	1501						
12	"	"						
13	1250	1250	• 343			• 171	• 28	oxy 343 bottle chipped
14	"	"						
15	1000	1000	• 345					
16	"	"						
17	750	750	• 346			• 172	• 26	
18	"	"						
19	500	500	• 347A					Erik (Student) took sample oxy
20	"	"						
21	300	260				173		
22	"	255	• 348			• 173	• 36	Fired while moving
23	200	200	• 349				• 38	Erik (Student) took sample oxy
24	200	"						

COMMENTS:

0510 transit

Atlantis
R/V-Thompson RCA-OOI Cruise AT50-29 - CTD Cast Log

N
500 m down current
DP

Station: EA Offshore DP post-deployment
 Date (Local): Aug 27, 2024
 Start Time (Local/GMT): 20:28:00 03:28:00
 Start Lat/Long: 44° 22.34361 N 124° 57.15943 W
 Soak Time (mins @ m): 5 min @ 10m
 Max Cast Depth (m): 570
 Bottom Depth (m): 575

Cast #/Filename: CTD-006
 Cable Rate Out m/min: 30 m/min 1st 200 → 60m/min to 20m B depth
 End Time (Local/GMT): 21:46:36 4:46:36
 End Lat/Long: 44° 22.34247 N 124° 57.1569 W
 Max Cable Out (m): 568
 Chlorophyll Max Depth (m):
 Sampling Start/End (Local): 2155 - 2223

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
1	566	566						
2	566	566						
3	550	550	• 337/338A			• 174		
4	550	550						
5	500	500	• 339A					
6	500	500						
7	450	450.5	• 340A			• 175/179	• 031	2nd sample for photo op
8	450	450.5						
9	400	400	• 341					
10	400	400						
11	350	350						
12	350	350						
13	325	325	• 342A			• 176	• 002	
14	325	325						
15	300	300	• 343				• 033	
16	300	300						
17	275	275	• 344			• 177	• 004	
18	275	275						
19	250	250	• 345				• 005	
20	250	250						
21	225	225						leaking TR checked ok ✓
22	225	225						
23	200	200	• 346			• 178	• 008	
24	200	200						

COMMENTS:

no students collected O₂ samples.

Atlantic
R/V Thompson RCA-OOI Cruise AT50-29 - CTD Cast Log

500m SW of DP

Station: Axial Base DP post-deployment
Date (Local): Aug 29, 2024
Start Time (Local/GMT): 1529 2229
Start Lat/Long: 45° 49.58326 N 129° 45.7936 W
Soak Time (mins @ m): 5 min @ 10 m
Max Cast Depth (m): 2565
Bottom Depth (m): 2581

Cast #/Filename: CTD-007
Cable Rate Out m/min: 30m/min → 260m; 60m/min to 20m of depth
End Time (Local/GMT): 18:09:10 1:09:10
End Lat/Long: 45° 49.5839 N 129° 45.79409 W
Max Cable Out (m): 2581
Chlorophyll Max Depth (m): ?
Sampling Start/End (Local): 1815 - 1945

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
1	2565	2565						* collect for galley
2		2565						* 2L for sea phox
3	2400	2400	• 347A/348			• 180		
4		2400	x 349					
5	2250	2250	• 350					
6		2250	x 351					
7	2000	2000.5	• 352			• 181	• 003	
8		2001	x 353B					
9	1750	1750	• 354					
10		1751	x 355A					
11	1500	1500						* collect for Mitch
12		1500						* collect for Mitch
13	1250	1251	• 356A			• 184	• 031	
14		1250						
15	1000	1001	• 357				• 004	
16		1001						
17	750	750	• 358			• 185	• 036	
18		750	x 359A					
19	500	500	• 360				• 028	
20		500	x 361					
21	300	300	• 362					
22		300	x 363					
23	200	200	• 364A			• 186	• 016	
24		200						

COMMENTS: x = additional O₂ samples titrated by students

R/V Thompson RCA-OOI Cruise AT50-29 - CTD Cast Log

Station: Axial Base LJ03A CTD OPTA
 Date (Local): Aug 29-80
 Start Time (Local/GMT): 2243 0543
 Start Lat/Long: 45-816877 N -129.752819
 Soak Time (mins @ m): —
 Max Cast Depth (m): —
 Bottom Depth (m): 2606

Cast #/Filename: J2-1647
 Cable Rate Out m/min: NA
 End Time (Local/GMT): 0356 1056
 End Lat/Long: 45-815161 N - 129.752571 W
 Max Cable Out (m): —
 Chlorophyll Max Depth (m): —
 Sampling Start/End (Local): 0415-0423

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
1 fwd	2606	2606	:365/366A					collected 1:31:32
2 aft	2606	2606				SA-182	CHL-008	collected 1:35:50
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

COMMENTS:

R/V Atlantis RCA-OOI Cruise AT50-29 - CTD Cast Log

Station: Axial Shallow Profiler
 Date (Local): Aug 30 2024
 Start Time (Local/GMT): 0502 1202
 Start Lat/Long: 45.831718 N - 129.753082 W
 Soak Time (mins @ m): —
 Max Cast Depth (m): 200 m
 Bottom Depth (m): 2581

Cast #/Filename: J2-1648
 Cable Rate Out m/min: —
 End Time (Local/GMT): 0646 1346
 End Lat/Long: 45.830167 N - 129.753012 W
 Max Cable Out (m): —
 Chlorophyll Max Depth (m): —
 Sampling Start/End (Local): 0650 - 0710

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
1 fwd	200 m		367 368				032	
2 aft	200 m			171	1441	183		
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

COMMENTS:

Redeploy SF03A w/new can Repeat

R/V Thompson RCA-OOI Cruise AT50-29 - CTD Cast Log

Station: Axial ASHES mJO3B + CTD
 Date (Local): Aug 30, 2024
 Start Time (Local/GMT): 14:34 2134
 Start Lat/Long: 45.933487 N -130.013939 W
 Soak Time (mins @ m):
 Max Cast Depth (m):
 Bottom Depth (m): 1544m

Cast #/Filename: J2-1650
 Cable Rate Out m/min:
 End Time (Local/GMT): 22:54 05:54
 End Lat/Long: 45.933649 N -130.013697 W
 Max Cable Out (m):
 Chlorophyll Max Depth (m):
 Sampling Start/End (Local): 2315-2320

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
3 19wd	1544					187		
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

COMMENTS:

R/V Thompson RCA-OOI Cruise AT50-29 - CTD Cast Log

Station: Axial Int'l Dist 2 ^{Chadwick} MJ03D
 Date (Local): 2024/08/31
 Start Time (Local/GMT): 15:40 22:40
 Start Lat/Long: 45.9166 -130.024922 ^{Niskin}
 Soak Time (mins @ m): —
 Max Cast Depth (m): —
 Bottom Depth (m): 1528m

Cast #/Filename: J2-1652
 Cable Rate Out m/min: —
 End Time (Local/GMT): 0114 0814
 End Lat/Long: 45.925992 N -129.977402
 Max Cable Out (m): —
 Chlorophyll Max Depth (m): —
 Sampling Start/End (Local): 0135 0150

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
3 1 fwd	1528					188		Students spilled Niskin so switched to aft starboard for sample
4 2 aft	1528					188		
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

COMMENTS: Done by Alex

R/V Atlantis RCA-OOI Cruise AT50-29 - CTD Cast Log

Station: Axial Central Caldera ^{chadwick} MJ03F
 Date (Local): Sept 1, 2024
 Start Time (Local/GMT): 0337
 Start Lat/Long: 45.9166 N -130.02500 W
 Soak Time (mins @ m): NA
 Max Cast Depth (m): -
 Bottom Depth (m): 1600

Cast #/Filename: J2-1653
 Cable Rate Out m/min: -
 End Time (Local/GMT): 1055 1755
 End Lat/Long: 45.955321 N -130.008458 W
 Max Cable Out (m): -
 Chlorophyll Max Depth (m): -
 Sampling Start/End (Local): 1115

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
3 1 for						189		collected 1629
3 2 aft								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

COMMENTS:

R/V Atlantis RCA-OOI Cruise AT50-29 - CTD Cast Log

Chadwick

Station: Axial Eastern Caldera MT03E

Date (Local): Sept 2, 2024

Start Time (Local/GMT): 0125 0805

Start Lat/Long: 45.939905 N -129.973851 W

Soak Time (mins @ m): NA

Max Cast Depth (m): NA

Bottom Depth (m): 1521

Cast #/Filename: J2-1656

Cable Rate Out m/min: NA

End Time (Local/GMT): 0428 1128

End Lat/Long: 45.940198 N -129.97348 W

Max Cable Out (m): NA

Chlorophyll Max Depth (m): NA

Sampling Start/End (Local): 0440-0445

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
3 x fwd						• 190		
4 x aft								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

COMMENTS:

R/V Atlantis RCA-OOI Cruise AT50-29 - CTD Cast Log

Repeat of CTD-005

500 m downcurrent of DP

Station: Slope Base DP verification
 Date (Local): Sept 7, 2024
 Start Time (Local/GMT): 1600 2300
 Start Lat/Long: 44° 31.624 N 125° 22.3378 W
 Soak Time (mins @ m): 5 min @ 10m
 Max Cast Depth (m): 2888
 Bottom Depth (m): 2916

Cast #/Filename: CTD-009
 Cable Rate Out m/min: 30 m/min → 200 60 m/min → 20m of depth
 End Time (Local/GMT): on deck 1815 0115
 End Lat/Long: 44 31.625 N 125 22.338 W
 Max Cable Out (m): 2896
 Chlorophyll Max Depth (m): —
 Sampling Start/End (Local): NO sampling

Niskin Bottle #	Target Depth (m)	Actual Depth (m)	Oxygen	DIC	Nutrients	Salinity	Chlorophyll	Notes
1	2888	2888						for Deb
2		2888						" "
3	2750	2750						
4		2750						
5	2500	2500						
6		2500						
7	2000	died	* no samples					
8								
9	1750		after 2500m					
10								
11	1500		conductive member					
12								
13	1250		failed					
14								
15	1000		TBird 9+ lost					
16								
17	750		communication					
18								
19	500							
20								
21	300							
22								
23	200							
24								

COMMENTS:

Repeat

Samples collected by:

* CTD-008 - Aborted due to issue w/wire
 * CTD-009 - Failed TBird 9+ lost communication after 2500m sample.