

40m/min

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: StricklandCollected By: Mia KuhnDate: June 8th 110Consecutive Stn #: 1Station Name: SI

Notes: (temperature, wind, barometer, weather, sea-state, etc)

barometer 30.04 inches Hg, 16°C, wind from N, 5 knots,

vis 20 naut miles, 51 cloud cover, secchi depth: 7m

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
1	CTD cast	9:15 am	48° 31.994' N	123° 32.382' W	149m	139m	20100608 - SI = filename.
2	bottle 1	9:52 am	48° 30.888' N	123° 32.451' W	146m	N/A	bottle depths: 100, 105, 110, 115, 120, 130 m * first bottle zeroed, 2m discrepancy.
3	bottle 2	10:38 am	48° 30.924' N	123° 32.373' W	N/A	N/A	bottle depths: 0, 5, 10, 15, 20, 30, 50, 70
4	ZOOP 1	11:03 am	48° 30.938' N	123° 32.412' W	146m	100m - 56m	Flowmeter: 22130 rev(start) (end): 22460
5	ZOOP 2	11:23 am	48° 30.911' N	123° 32.420' W	146m	50m - 0m	Flowmeter: 22460 (start) (end): 22640 lots of jellies

jar → missing sample (spiral)
... → 2 hours

* NaOH
not at 1.74

Water Chemistry Sampling

University of Victoria

Station Name: 51

Cast #: 1 Event #: 2

Cruise: OSM JUNE 2010

Date: June 8th / 10 Time: 10:10 am

Sampler Names: Kristen, Zee, Zach, Sandra

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC (C) Bottle#	NH4 Vial#	NO3 K	NO2 Z	PO4 / Si (2 tubes) Z	Mn (✓ when acid spiked) Z	CHL filtered Vol (mL)
8									
7									
6	100	X	X	A-61	✓	✓	✓	✓	X
5	105	001 + 002B	001	A-54	✓	✓	X	✓	X
4	110	003B + 004	X	A-121	✓	✓	✓	✓	X
3	115	005 + 006B	X	A-134	✓	✓	X	✓	X
2	120	X	X	A-74	✓	✓	✓	✓	X
1	136	X	X	A-138	✓	✓	✓	✓	X

NOTES:

in box in box

NH4 Spiked with Working Reagent: yes po Time Spiked? 5:19

NH4 Stds Vial# 0uM = A34 2.5uM = A35 7.5uM = A142 10uM = A87 Time spiked? 5:19

bottom 149 m

interface

* UV+ : white precipitate in flask

Water Chemistry Sampling

University of Victoria

Cruise: OSM JUNE 2010

Station Name: 51

Date: June 8th/2010

Time: _____

Cast #: 2 Event #: 2

Sampler Names: Kristen, Josh, Zach, Brandon

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4 /Si (2 tubes)	Mn (✓ when acid spiked)	CHL filtered Vol (mL)
8	0	007* 008 ✓	02 ✓	A91	✓	✓	✓	✓	✓
7	5	009 010 ✓	X	A85	✓	✓	X	✓	X
6	10	011 012 ✓	03	A37	✓	✓	✓	X	✓
5	15	013 014 ✓	X	A119 ✓	✓	✓	X	X	X
4	20	X	X	A47 ✓	✓	✓	✓	✓	X
3	30	015 016 ✓	04	A92	✓	✓	✓	X	✓
2	50	X	05	A105	✓	✓	✓	✓	✓
1	70	017 018 ✓	X	A94 ✓	✓	✓	✓	X	X

NOTES:

NH4 Spiked with Working Reagent: (yes no) Time Spiked? 5:19

NH4 Stds Vial# 0uM = 2.5uM = 5uM = 7.5uM = 10uM = Time spiked?

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Kelly/Zach

Date: June 8 2010

collected
end of
event?
12:54 PM

Consecutive Stn #: 2

Notes: (temperature, wind, barometer, weather, sea-state, etc)
barometer at 9.97 m/s temp 17°C Cloud 100%
WSS 20 wind East 5 knots water sampled
Secchi 6 m

Station Name: S2

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
6	CTD	11:51 am	48° 33' 13.7" N	123° 32' 00.9" W	213 m	200 m	NO100608-S2
7	Bottle 1	12:15 pm	48° 33' 11.8" N	123° 31' 08.2" W	213 m	N/A	bottle depths 110, 120, 145, 140, 160, 180
8	Bottle 2	1:01 pm	48° 33' 13.6" N	123° 31' 05.6" W	213 m	N/A	bottle depths 0, 10, 20, 30, 40, 50, 70, 90
9	ZOOP 1	1:48 pm	48° 33' 11.2" N	123° 31' 02.9" W	213 m	100 m - 56 m	flowmeter at 460 m 23517 end
10	ZOOP 2	2:01 h	48° 33' 11.4" N	123° 31' 08.2" W	213 m	0-50 m	flowmeter at 517 m 23100 end, very brown split in splitter 2/2 in bag 11 has some spill in

Water Chemistry Sampling

University of Victoria

Cruise: OSM JUNE 2010

Station Name: S2

Date: June 8th, 2010

Time: ~12:30 pm

Cast #: 1 Event #: 7

Sampler Names: Mia, Orla, Sean (The David Attenboroughs)

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	green NO2	PO4 /Si (2 tubes)	Mn (✓ when acid spiked)	CHL filtered Vol (mL)
8									
7									
6	110	19, 20 ✓	C-06 ✓	A95.	✓	✓	✓	✓	—
5	120	21, 22 ✓	—	A26.	✓	✓	✓	✓	—
4	125	23, 24 ✓	—	A141	✓	✓	✓	✓	—
3	140	—	—	A78.	✓	✓	✓	✓	—
2	160	—	—	A45.	✓	✓	—	✓	—
1	180	—	—	A13.	✓	✓	✓	✓	—

NOTES:

NH4 Spiked with Working Reagent: yes no Time Spiked? 5:18

NH4 Stds Vial# 0uM = 2.5uM = 5uM = 7.5uM = 10uM = Time spiked?

Water Chemistry Sampling

University of Victoria

Cruise: OSM JUNE 2010

Station Name: SZ

Date: June 8th 2010

Time: 1321

Cast #: 2 Event #: 7

Sampler Names: The David Attenboroughs (Scan, Min, 0.12)

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	grn NO2	PO4 /Si (2 tubes)	Mn (✓ when acid spiked)	CHL filtered Vol (mL)
8	0	25B, 26	C-07	A-56	✓	✓	✓	✓	✓
7	10	27B, 28	—	A-30	✓	✓	✓	✓	✓
6	20	29, 30	C-08	A-46	✓	✓	✓	✓	✓
5	30	—	—	A-130	✓	✓	✓	✓	✓
4	40	31B, 32B	C-09	A-143	✓	✓	✓	✓	✓
3	50	33, 34	—	A-99	✓	✓	✓	✓	✓
2	70	35, 36	C-10	A-88	✓	✓	✓	✓	✓
1	90	—	—	A-136	✓	✓	✓	✓	✓

NOTES:

NH4 Spiked with Working Reagent: yes no Time Spiked? 5:18

NH4 Stds Vial# 0uM = 1107 2.5uM = A60 5uM = A11 7.5uM = A12 10uM = A133 Time spiked? 5:18

● OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Date: June 8th, 2010

Consecutive Stn #: 3

Station Name: S3

Collected By: Sean Pethick Jensen

Notes: (temperature, wind, barometer, weather, sea-state, etc) cloud cover: 100%
 Calm winds & water, 1600 Baro: 29.88 inHg, Vis: 20 knots
 Secchi depth → 4m temp: 18°C wind 10 mph 5 knots
 sea ruffled

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
11	CTD	1432	48° 35.499' N	123° 30.007' W	227m	217m	20100608_S3_hex
12	Bottles #1 215, 125, 130, 125, 120, 115	1510	48° 35.400' N	123° 30.003' W	227m	215m	bottles at 215m, 130m, 125m, 120m, 115m
13	Bottles #2 110, 95, 30, 30, 30, 10, 5, 0	1557	48° 35.456' N	123° 29.976' W	227m	110m	bottles at 110m, 95m, 30m, 5m, 0m
14	Zoop	1619	48° 35.463' N	123° 30.023' W	X	100-52m	
15	Zoop 2	1640	48° 35.506' N	123° 29.982' W	X	50m to surface	lots of plankton w/ jellies. (almost useless?) 100m up

→ sample Not preserved -

Water Chemistry Sampling

University of Victoria

Cruise: OSM JUNE 2010

Station Name: S3

Date: 8/6/2010

Time: 3:10 pm

Cast #: 1 Event #: 12

Sampler Names: Kelly, Tyler, Nico

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4 /Si (2 tubes)	Mn (✓ when acid spiked)	CHL filtered Vol (mL)
8	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/
6	115	✓ 37, 38B	/	A93	✓	✓	✓	✓	/
5	120	✓ 39, 40	/	A83	✓	✓	✓	✓	/
4	125	✓ 41, 42	/	A81	✓	✓	✓	✓	/
3	130	/	/	A96	✓	✓	/	✓	/
2	150	/	/	A25	/	✓	/	✓	/
1	215	/	/	A140	/	✓	✓	✓	/

NOTES:

NH4 Spiked with Working Reagent: yes no Time Spiked? 5:12

NH4 Stds Vial# 0uM = 2.5uM = 5uM = 7.5uM = 10uM = Time spiked?

Water Chemistry Sampling

University of Victoria

Cruise: OSM JUNE 2010

Station Name: 53

Date: 8/6/2010

Time: 3:54

Cast #: 2 Event #: 13

Sampler Names: Kelly, Tyler, Nico

70600200

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4 /Si (2 tubes)	Mn (✓ when acid spiked)	CHL filtered Vol (mL)
8	<u>0</u>	<u>43, 44</u>	/	<u>A42</u>	✓	✓	✓	/	<u>250</u>
7	<u>5</u>	<u>45, 46</u>	<u>C-12</u>	<u>A104</u>	✓	✓	/	✓	/
6	<u>10</u>	<u>47, 48</u>	/	<u>A27</u>	✓	✓	✓	/	<u>250</u>
5	<u>30</u>	<u>97, 98</u>	<u>C-15</u>	<u>A107</u>	✓	✓	✓	✓	<u>250</u>
4	<u>50</u>	<u>99, 100</u>	/	<u>A41</u>	✓	✓	✓	/	<u>250</u>
3	<u>70</u>	/	<u>C11</u>	<u>A42</u>	✓	✓	✓	✓	/
2	<u>95</u>	/	/	<u>A98</u>	✓	✓	✓	/	/
1	<u>110</u>	<u>101, 102</u>	<u>C-14</u>	<u>A49</u>	✓	✓	/	✓	/

NOTES:

Deriv. C. 50.00

NH4 Spiked with Working Reagent: yes no Time Spiked? 5:12

NH4 Stds Vial# 0uM = A38 2.5uM = A90 5uM = A33 7.5uM = A24 10uM = A89 Time spiked? 5:12

VESSEL: Strickland

Collected By: Shirley D. E.
Quach Anthony

Notes: temperature, wind, barometer, weather, sea-state, etc.
 bar: 29.85 cloud cover: 50%
 T: 13°C wind from S-E: 5 knots
 V/S: 10-15 knots sea: rippled

cloud cover: 95%
wind from S-E: 5 knots
Sea: ruffled
Secchi depth 5.5 m

Page 1 of 200

Water Chemistry Sampling

Cruise: OSM JUNE 2010

University of Victoria

Station Name: S3.5

Date: 06/09/2010

Time: 09:00

Cast #: 17 Event #: 17

Sampler Names: Alex, Wlo, Karen, Devon

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle #	NH4 Vial #	Sm ¹¹ NO3	green NO2	PO4/Si (2 tubes)	Mn ¹⁷ when acid spiked	CHL filtered Vol (mL)
8									
7									
6	125	103 ✓ 104 ✓	X	A118	✓	✓	X	✓	X
5	135	X	X	A116	✓	✓	✓	✓	X
4	145	X	X	A-66	✓	✓	X	✓	X
3	165	X	X	A117	✓	✓	✓	✓	X
2	185	X	X	A123	✓	✓	X	✓	X
1	205	X	X	A-65	✓	✓	✓	✓	X

NOTES:

NH4 Spiked with Working Reagent: (yes no Time Spiked? 20:17)
 NH4 Stds Vial# 0uM = A64 2.5uM = A62 5uM = A32 7.5uM = A63 10uM = A55 Time spiked?

Water Chemistry Sampling

Cruise: OSM JUNE 2010

University of Victoria

Station Name: 3.5

Date: 09/06/2010

Time: 9:56

Cast #: 2 Event #: 18

Sampler Names: Devon, Alex, Karen, udo

Small green blue/yellow

Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4 /Si (2 tubes)	Min (N when acid spiked)	CHL filtered Vol (mL)
8	0	105 ✓ 106 ✓	C19 ✓	A122	✓	✓	✓✓	X	✓
7	10	107 ✓ 108 ✓	X	A126	✓	✓	✓✓	X	✓
6	30	109 ✓ 110 ✓	C20 ✓	A108	✓	✓	✓✓	X	✓
5	50	111 ✓ 112 ✓	X	A131	✓	✓	✓✓	X	✓
4	75	113 ✓ 114 ✓	C21 ✓	A115	✓	✓	✓✓	X	X
3	95	115 ✓ 116 ✓	C22 ✓	A124	✓	✓	✓✓	X	X
2	105	117 ✓ 118 ✓	C23 ✓	A31	✓	✓	X	X	X
1	115	119 ✓ 120 ✓	X	A109	✓	✓	✓✓	X	X

NOTES:

NH4 Spiked with Working Reagent: (Yes) no Time Spiked? 20:22
NH4 Stds Vial# 0uM = 2.5uM = 5uM = 7.5uM = 10uM =

Time spiked?

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Debra

Date: 09/06/2010

Consecutive Sln #: 54

Station Name: S4

Notes: (temperature, wind, barometer, weather, sea-state, etc)
 bar: 29.80 W.S.: 82 NMH
 T: 15°C Cloud: 95%
 wind: 5 knots cover sea surface (rippled)
 Secchi depth: 35m

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
21	CTD	11:11	48° 38.252	123° 30.036	200m	190m	20100609 - 54
22	BOT NISK	11:46	48° 38.413	123° 30.105	200m	190m	① 190 25 ② 165 20 ③ 145 20 ④ 105 20 ⑤ 105 20 ⑥ 105 20 ⑦ 105 20 ⑧ 105 20 ⑨ 105 20 ⑩ 105 20
23	BOT NISK	12:34	48° 38.405	123° 30.142	200m	90m	① 90 20 ② 70 20 ③ 50 20 ④ 30 20 ⑤ 20 20 ⑥ 10 20 ⑦ 5 20 ⑧ 5 20 ⑨ 5 20 ⑩ 5 20
24	2000	12:50	48° 38.299	123° 30.106	200m	100m	23840 revolutions start drop messenger at 65m net closed at 55m 24100 revolutions end
25	2000	13:16	48° 38.297	123° 30.106	200m	50m	24100 revolutions to start drop messenger at 50m net closed at 45m 24535 revolutions end

Water Chemistry Sampling

Cruise: OSM JUNE 2010

University of Victoria

Station Name: S4

Date: June 9, 2010

Time: 11:46 am

Cast #: 1 Event #: 22

Sampler Names: Susan Anthony, Kim Fitzsimmons, Joel White, Natesha Ewing

Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4 / Si (2 tubes)	Mn (when acid spiked)	CHL filtered Vol (mL)
8	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X
6	105	0738 0743	C-24	A-29	✓	✓	✓	✓	X
5	115	0753 0765	X	A-50	✓	✓	X	X	X
4	125	0770 0788	X	A-75	✓	✓	✓	✓	X
3	145	X	X	A-23	✓	✓	X	X	X
2	165	X	X	A-110	✓	✓	✓	✓	X
1	190m	X	X	A-22	✓	✓	✓	✓	X

NOTES:

ox inverted 10 times
maybe not enough oxygen

Mn spike

NH4 Spiked with Working Reagent: yes no Time Spiked? 20:25
 NH4 Stds Vial# 0uM = K58 2.5uM = A112 5uM = A37 7.5uM = A13 10uM = A57 Time spiked? 20:33

Water Chemistry Sampling

University of Victoria

Cruise: OSM JUNE 2010

Station Name: 64

Date: June 9, 2010

Time: 12:35 pm

Cast #: 2 Event #: 23

Sampler Names: Joel, Susan, Natasha, Kim

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4 /Si (2 tubes)	Mn (when acid spiked)	CHL filtered Vol (mL)
8	0	✓ 079 ✓ 0808	✓ C-25	✓ A-120	✓	✓	✓	✓	✓
7	05	X	X	✓ A-132	✓	✓	✓	✓	X
6	10	✓ 081 ✓ 082	✓ C-26	✓ A-40	✓	✓	✓	✓	X
5	20	✓ 0838 ✓ 084	X	✓ A-47	✓	✓	✓	✓	X
4	30	✓ 085 ✓ 086	✓ C-27	✓ A-59	✓	✓	✓	✓	✓
3	40	✓ 087 ✓ 089	X	✓ A-125	✓	✓	✓	✓	✓
2	70	X	✓ C-28	✓ A-101	✓	✓	✓	✓	X
1	90	✓ 0908 ✓ 091	X	✓ A-106	✓	✓	✓	✓	X

NOTES:

NH4 Spiked with Working Reagent: (yes) no Time Spiked? 20:27
 NH4 Stds Vial# 0uM = 2.5uM = 5uM = 7.5uM = 10uM =

Time spiked?

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Date: 200.06.09

Consecutive Stn #: _____

Station Name: S12

Collected By: _____

Notes: (temperature, wind, barometer, weather, sea-state, etc)

Wind <15 kts E overcast

20cm wind chop sea ch = 4.5m

11.65 15
11.2 30 20 15.5
11.3 30 20 35 55
11.4 10 20 65
11.5 0 10 65

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
26	CTD	13.52 P01	48°41.881' N	123°29.745' W	75m	65m	200604-S12.net
27	Bottle	14.04 P01	48°41.847' N	123°29.892' W	75m	65m	5 bottles 65 30 18
28	200° row	14.31 P01	48°41.824' N	123°29.882' W	75m	50-60m	Flow in 24340 end. 24593.

Water Chemistry Sampling

University of Victoria

Cruise: OSM JUNE 2010

Station Name: 512

Date: 9 Jun 2010

Time: 14:10

Cast #: 1 Event #: 27

Sampler Names: Alex, Devon, Udo, Karen

Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle #	NH4 Vial#	Small NO3	Green NO2	Bore / Filter PO4 / Si (2 tubes)	Mn (when acid spiked)	CHL filtered Vol (mL)
8									
7									
6									
5	0	192, 193	C-29	A-71	✓	✓	✓	✓	✓
4	10	194, 195	—	A-53	✓	✓	✓	—	✓
3	30	—	—	A-48	✓	✓	—	✓	✓
2	50	149, 50	C-30	A-35	✓	✓	✓	—	✓
1	65	—	—	A-49	✓	✓	—	✓	—

NOTES:

NH4 Spiked with Working Reagent: Yes no Time Spiked? 20:13
 NH4 Stds Vial# 0uM = 2.5uM = 5uM = 7.5uM = 10uM = Time spiked?

30m
NO2
topped

OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Date: 200. 04-26

CS

Consecutive Stn #: 55

Station Name: SS

Collected By: Alex Joel

Notes: (temperature, wind, barometer, weather, sea-state, etc)

Secchi: 3.5m Barometer: 29.78 Hg T: 15°C V.S: 20 kts Clouds: 90% Light: light Wind: calm Sea: calm

EVENT NUMBER	EVENT TYPE	TIME	LAT.	LONG.	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, etc)
29	200P HW	14:53 PDT	48°42.437'N	123°27.639'W	122m	100-50m	Fluor 24340 24545 out 24822
30	200P	15:07 PDT	48°42.455'N	123°27.606'W	122m	50-0m	in 24822 out 24940 (2 Jars)
31	CAD	15:20 PDT	48°42.983'N	123°27.586'W	114m	100m	20100609-SS
32	200P	15:39 PDT	48°42.950'N	123°27.641'W	116m	65m	0 10 50 70 80 90 100 30 65 70 80 90 100

Water Chemistry Sampling

University of Victoria

Cruise: OSM JUNE 2010

Station Name: S5

Date: 9 Jun 2010

Time: 16:07

Cast #: 1 Event #: 32

Sampler Names: Joel Kim, Jason, Tanya

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4 / Si (2 tubes)	Mn (✓ when acid spiked)	CHL filtered Vol (mL)
8									
7									
6									
5	0	51, 52	C-31	A8a	✓	✓	✓	✓	✓
4	10	55, 54	—	A80	✓	✓	✓	—	✓
3	30	—	—	A103	✓	✓	—	✓	✓
2	50	55, 56	C-32	A10a	✓	✓	✓	—	✓
1	65	—	—	A70	✓	✓	—	✓	—

NOTES:

NH4 Spiked with Working Reagent: ☒ yes ☐ no Time Spiked? 16:10
 NH4 Stds Vial# 0uM = 2.5uM = 5uM = 7.5uM = 10uM =
 Time spiked?