

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2012-09

DATE:

VESSEL:

PROJECT(S):

From: Victoria BC

to: Barrow AK

Sir Wilfrid Laurier

C30, DBO

Water Properties Group
Fisheries and Oceans Canada
Institute of Ocean Sciences
Ocean Sciences Division
North Saanich, BC, Canada

WaterProperties.ca

Captain: _____
 Second Officer: _____
 Fishing Master: _____
 First Officer: _____
 Third Officer: _____

Mission Participants / Agencies:

[illegible][illegible]

Data logging computer:

Data acquisition program: _____

CTD deck unit make: _____ model: _____ serial number: _____

Primary CTD

Make: <u>SBEG+</u>	model: <u>941</u>	serial number: <u>941</u>
Primary temperature serial number: <u>5648</u>		
Primary conductivity serial number: <u>3579</u>		
Secondary temperature serial number: <u>5073</u>		
Secondary conductivity serial number: <u>3581</u>		
Transmissometer: <u>transpar</u>	yes	Model: <u>1050</u>
Fluorometer: Model <u>Senpoint</u>		Cable gain: <u>3x</u>
Oxygen sensor: <u>yes</u>		Model: <u>SBLE43</u>
PAR sensor: <u>yes</u>		Model: <u>70123</u>
Other sensors: <u>SPAR</u>	<u>95R-2200</u>	s/n: <u>20281</u>
Other sensors:		s/n: <u></u>
Other sensors:		s/n: <u></u>
Other sensors:		s/n: <u></u>
Other sensors:		s/n: <u></u>

Secondary CTD

Make: 5BE model: 25 serial number: 293

Primary temperature serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: _____ P, S or NO pump? _____

Oxygen sensor: _____ Model: _____ s/n: _____ P, S or NO pump? _____

PAR sensor: _____ Model: _____ s/n: _____

Other sensors: _____ s/n: _____ P, S or NO pump? _____

Other sensors: _____ s/n: _____ P, S or NO pump? _____

Other sensors: _____ s/n: _____ P, S or NO pump? _____

Other sensors: _____ s/n: _____ P, S or NO pump? _____

CTD calibration bottle location (height above CTD in metres): $\sim 1m$ to centre

Rosette Setup:

Number of bottles: 24

Manufacturer: Ocean Test Equip

Volume of bottles (litres): 10 8?

Winches:

1. Make: _____ Model: _____ Serial #: _____ Used for: _____
2. Make: _____ Model: _____ Serial #: _____ Used for: _____
3. Make: _____ Model: _____ Serial #: _____ Used for: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

~~**Salinometer:**~~ @ ICS

Make: _____ Model: _____ Serial Number: _____
Comments on performance during cruise (comments should also be reflected in the post-cruise report):

~~**Oxygen Kitt(s):**~~

Make: _____ Model: _____ Kit Number: _____
Make: _____ Model: _____ Kit Number: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

Thermosalinograph System (SBE21): yes

Program: _____ Version: _____

Sampling interval (seconds): _____

Fluorometer sensor serial number: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

ADCP Setup: yes (cover the side during casts)

Computer time zone: _____ User Exits: Name: _____ Exit points: _____

Sampling interval (sec): _____ Name: _____ Exit points: _____

Bin Length: (2^x): _____ Name: _____ Exit points: _____

Pulse Length: _____ Work File: _____

Buffer (bytes): _____

Gyro Offset: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

CTD Test Cast Information

Test Cast along side? ☐ Yes ☐ No

Comments

Test Cast in Saanich Inlet or other location? ☐ Yes ☐ No

Comments

CTD pressure reading on deck (db), before cast: _____ after cast: _____

Pumps working? ☐ Yes ☐ (0011) ☐ No ☐ (0010)

Secondary Temp – Primary Temp:
(Average from the mixed region) _____

Secondary Salinity – Primary Salinity:
(Average from the mixed region) _____

Additional Comments:



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Month <u>July</u>				Year <u>2012</u>			Ship <u>SWL</u>				Cruise ID <u>2012-09</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
14	SLIP-1	08:10	BE	ROS	US	1	62 0.720	175 3.979	80	75	1-7	7	30/5V	✓	0.16 d13, 16000
		08:15	BO												
		08:27	EN				62 0.700	175 4.102							
14	SLIP-2	10:23	BE	ROS	US	2	62 3.010	175 12.68	78	76	8-14	7	30/5V	✓	0.16 d13 17000
		10:27	BO												
		10:37	EN				62 3.00	175 12.676							
14	SLIP-3	13:59	BE	ROS	US	3	62 23.370	174 34.258	68	65	15-20	6	30/5V	✓	6500
		14:03	BO												
		14:11	EN				62 23.345	174 34.224			21-26	6	30/5V		
14	SLIP-5	18:08	BE	ROS	US	4	62 33.63	173 33.04	62	61	21-26	6	30/5V	✓	0.18 d13 8200
			BO												
		18:21	EN				62 33.62	173 33.04							
14	SLIP-4	21:50	BE	ROS	US	5	63 1.804	173 27.570	73	66	27-32	6	30/5V	✓	0.19 d13 11800
		21:55	BO												
		22:11	EN				63 1.81	173 27.520							
15	BCL-6A	05:19	BE	ROS	US	5	63 55.309	172 5.507	54	49	33-37	5	30/5V	✓	-0.01 d13 13300
		05:23	BO												
		05:28	EN				63 55.29	172 5.364							

Cast Type:

BOT = Bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD
 SET = Fish Set

USW = Sea Water Loop

MOR = Mooring
 NET = Plankton Net Haul
 DRF = Drifter

Bottle Firing Method:

US = Up / Stop
 UN = Up / No stop
 DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast
 BO = Bottom Time of Cast
 EN = End Time of Cast

DE = Deployment Time

MR = Messenger Release Time

RE = Recover Mooring Time

Transmissometer to be cleaned before each cast, do not use Ammonia products

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Month <u>July</u>				Year <u>2012</u>			Ship <u>SWL</u>				Cruise ID <u>2012-09</u>					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments	
							Latitude	Longitude								
15	UTDS-5	11:52	BE	ROS	US	7	64 40.163	169 55.156	43	42	38-42	5	31/50	✓	-0.05-13	8800
		11:57	BO													
		12:02	EN													
15	UTBS-2	14:51	BE	ROS	US	8	64 40.81	169 6.040	41	40	43-47	5	31/50	✓	0.02-13	8000
		14:55	BO													
		15:02	EN													
15	UTBS-1	17:34	BE	ROS	US	9	64 59.44	169 8.270	44	44	48-52	5	31/50	✓	0.02-13	8000
		17:40	BO													
		17:47	EN													
15	UTBS-4	20:31	BE	ROS	US	10	64 57.619	169 53.042	50	44	53-57	5	31/50	✓	0.09-13	12000*
		20:40	EN													
16	BRS-3	02:18	BE	ROS	US	11	65 42.220	168 46.42	53	46	58-62	5	31/50	✓		8800
		02:23	BO													
		02:29	EN													
16	UTN-1	07:57	BE	ROS	US	12	66 42.7	168 23.848	34	29	63-66	4	31/50	✓	-0.07	8000
		08:02	BO													
		08:07	EN													

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
16	UTN-2	11:00	BE	ROS	US	13	67 3.01	168 43.680	45	40	67-71	5	SV	✓	0.22dB 8500
		11:05	BO												
		11:10	EN				67 3.04	168 43.631							
16	UTN-3	13:41	BE	ROS	US	14	67 19.786	168 54.460	49	44	72-76	5	3dl/sv	✓	0.14dB 8000
		13:46	BO												
		13:51	EN				67 19.840	168 54.379							
16	UTN-4	15:23	BE	ROS	US	15	67 30.049	168 54.230	50	45	77-81	5	3dl/sv	✓	0.08dB 8000
		15:29	BO												
		15:34	EN				67 30.127	168 54.098							
16	UTN-5	17:26	BE	ROS	US	16	67 40.180	168 54.341	50	45	82-86	5	3dl/sv	✓	0.06dB 8900
		17:31	BO												
		17:37	EN				67 40.2	168 54.371							
16	UTN-6	20:49	BE	ROS	US	17	67 44.419	168 26.380	50	45	87-91	5	3dl/sv	✓	0.16dB 16700
		20:53	BO												
		20:59	EN				67 44.449	168 26.270							
16	SEC-2	22:15	BE	ROS	US	18	67 46.819	168 36.155	50	45	92-96	5	3dl/sv	✓	0.26dB 9600
		22:20	BO												
		22:25	EN				67 46.87	168 36.2							

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Month <u>JULY</u>				Year <u>2012</u>			Ship <u>SWL</u>				Cruise ID <u>2012-09</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
17	UTN-7	00:52	BE	ROS	US	19	68 0.040	168 54.550	58	53	97-102	6	3d/sv	✓	0.22dB 9200
		00:57	Bo												
		01:04	EN				68 0.049	168 54.590							
17	SEC-3	03:33	BE	ROS	US	20	67 54.079	168 14.552	58	54	103-107	5	3d/sv	✓	-0.1dB 9700
		03:37	Bo												
		03:44	EN				67 54.1	168 14.400							
17	SEC-4	05:34	BE	ROS	US	21	68 0.618	167 52.390	55	49	108-112	5	3d/sv	✓	-0.06dB 10400
		05:38	Bo												
		05:44	EN				68 0.670	167 52.470							
17	SEC-5	07:30	BE	ROS	US	22	68 7.87	167 30.67	50	46	113-117	5	3d/sv	✓	-0.02dB 8100
		07:36	Bo												
		07:49	EN				68 8.08	167 31.009							
17	SEC-6	09:07	BE	ROS	US	23	68 11.479	167 18.914	49	44	118-122	5	3d/sv	✓	0.16dB 7900
		09:12	Bo												
		09:17	EN				68 11.554	167 19.114							
17	SEC-7	10:26	BE	ROS	US	24	68 14.509	167 7.390	44	39	123-127	5	3d/sv	✓	0.07dB 7700
		10:30	Bo												
		10:35	EN				68 14.599	167 7.690							

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Transmissometer to be cleaned before each cast, do not use Ammonia products

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2012-09-SWL - Cleanup and Logs - 2012-07-18.xls

DATE + TIME (UTC)	STATION	CAST TYPE	EVENT No.	Lat Deg N	Lat Min N	Lon Deg	Lon Min	W	BOTTOM DEPTH	MAX DEPTH	SAMPLE NUMBERS	No. of BOTTLES	WATCH	COMMENTS
7/5/2012 15:07		UCTD	1	48	14.117	N 127	49.619	W		400			sv	
7/5/2012 21:00		UCTD	2	48	8.9	N 129	19.9	W		400			sv	
7/5/2012 21:30		XCTD	1	48	8.9	N 129	19.9	W		1100			sv	
7/5/2012 23:43		Argo float	1	47	59.51	N 129	59.52	W			NOVA S/N 29		sv	
7/6/2012 3:03		UCTD	3	47	53.3	N 130	50.1	W	>2000	400			sv	
7/6/2012 3:25		Argo float	2	47	52.97	N 130	54.78	W			NAVIS F0156		sv	
7/6/2012 9:05		Argo float	3	47	42.039	N 132	17.84	W			NOVA S/N 27		sv	
7/6/2012 9:13		UCTD	4	47	41.96	N 132	19.77	W	>2000	400			dd	
7/6/2012 15:00		UCTD	5	47	42.614	N 133	48.5	W	>2000	400			jd	
7/6/2012 20:36		Argo float	4	47	42.545	N 135	13.7374	W			NOVA S/N 30		sv	
7/6/2012 20:57		UCTD	6	47	42.413	N 135	18.4299	W	>2000	400			jd	
7/6/2012 21:19		XCTD	2	47	42.348	N 135	22.4	W	>2000	1100			sv/jd	
7/7/2012 2:58		UCTD	7	47	39.639	N 136	50.8913	W	>2000	400			jd/sv	
7/7/2012 8:16		Argo float	5	47	36.612	N 138	10.6214	W			NOVA S/N 18		sv	
7/7/2012 9:00		UCTD	8	47	36.27	N 138	20.663	W	>2000	400			dd	
7/7/2012 15:05		UCTD	9	47	33.16	N 139	54.337	W	>2000	400			jd	
7/7/2012 19:39		Argo float	6	47	30.608	N 141	6.8782	W			NOVA S/N 25		sv	
7/7/2012 20:53		UCTD	10	47	29.806	N 141	19.4404	W	>2000	400			jd	
7/7/2012 21:13		XCTD	3	47	29.405	N 141	24.266	W	>2000	1100			sv/jd	
7/8/2012 1:30		Argo float	7	47	24.96	N 142	29.2804	W			NAVIS F0152		sv	
7/8/2012 2:57		UCTD	11	47	23.2	N 142	51.7	W	>2000	400			jd	
7/8/2012 7:35		Argo float	8	47	17.44	N 144	3.429	W			NOVA S/N 19		sv	
7/8/2012 9:00		UCTD	12	47	15.7	N 144	24.9	W	>2000	400			jd	
7/8/2012 13:00		Argo float	9	47	10	N 145	25.8	W			NAVIS F0157		sv	
7/8/2012 14:54		UCTD	13	47	7	N 145	54.7	W	>2000	400			jd	
7/8/2012 19:07		Argo float	10	47	0.0547	N 146	59.7997	W			NOVA S/N 26		sv	
7/8/2012 19:15		Drift bottles	41-60	47	0.46	N 147	1.127	W			41-60	20	jd/rp	
7/8/2012 20:56		UCTD	14	47	12.5	N 147	21.2	W	>2000	400			jd	
7/8/2012 21:10		XCTD	4	47	14.2	N 147	24	W	>2000	1100			sv/jd	
7/8/2012 23:53		Argo float	11	47	32.714	N 147	55.7719	W			NOVA S/N 20		sv	
7/9/2012 2:52		UCTD	15	47	52.59	N 148	30.689	W	>2000	400			jd	
7/9/2012 4:53		UCTD	16	48	6.0505	N 148	55.1485	W	>2000	400			sv	
7/9/2012 5:11		Argo float	12	48	7.9373	N 148	58.5893	W			NOVA S/N 28		sv	
7/9/2012 9:00		UCTD	17	48	34.4	N 149	46.3	W	>2000	400			dd	
7/9/2012 11:56		UCTD	18	48	54.6	N 150	21.7	W	>2000	400			sv	
7/9/2012 15:00		Argo float	13	49	12.78	N 150	58.607	W			NOVA S/N 24		sv	
7/9/2012 15:03		UCTD	19	49	12.929	N 150	59.295	W	>2000	400			jd	
7/9/2012 17:52		UCTD	20	49	29.73	N 151	33.76	W	>2000	400			jd	
7/9/2012 20:53		UCTD	21	49	49.33	N 152	9.7914	W	>2000	400			jd	
7/9/2012 21:07		XCTD	5	49	50.6	N 152	12.4	W	>2000	1100			sv/jd	
7/10/2012 0:04		UCTD	22	50	7.625	N 152	46.736	W	>2000	400			jd	
7/10/2012 1:12		Argo float	14	50	13.748	N 152	59.6789	W			NOVA S/N 21		sv	
7/10/2012 2:50		UCTD	23	50	22.726	N 153	20.9552	W	>2000	400			jd	
7/10/2012 6:01		UCTD	24	50	42.3	N 154	3.5	W	>2000	400			dd	
7/10/2012 8:59		UCTD	25	51	1.12	N 154	45.59	W	>2000	400			sv	
7/10/2012 10:12		Argo float	15	51	8.89	N 154	59.856	W			NOVA S/N 22		sv	
7/10/2012 12:00		UCTD	26	51	19.7	N 155	24.1	W	>2000	400			dd	
7/10/2012 14:39		Argo float	16	51	35.998	N 156	1.34	W			NAVIS F0158		sv	
7/10/2012 14:56		UCTD	27	51	37.71	N 156	5.25	W	>2000	400			jd	
7/10/2012 17:55		UCTD	28	51	56.2	N 156	48.5	W	>2000	400			sv	
7/10/2012 18:22		Argo float	17	52	0	N 156	59.25	W			NOVA S/N 23		sv	
7/10/2012 20:52		UCTD	29	52	10.364	N 157	35.2352	W	>2000	400			jd	
7/10/2012 21:05		XCTD	6	52	10.364	N 157	35.2352	W	>2000	1100			sv/jd	
7/10/2012 23:07		Argo float	18	52	15.913	N 158	0.4493	W			NAVIS F0151		sv	
7/10/2012 23:58		UCTD	30	52	19.246	N 158	12.278	W	>2000	400			jd	
7/11/2012 2:54		Argo float	19	52	29.739	N 158	56.3638	W			NAVIS F0155		sv	
7/11/2012 2:59		UCTD	31	52	29.918	N 158	57.1956	W	>2000	400			jd	
7/11/2012 6:00		UCTD	32	52	42.672	N 159	42.324	W	>2000	400			sv	
7/11/2012 6:44		Argo float	20	52	44.521	N 159	53.477	W			NAVIS F0159		sv	
7/11/2012 9:13		UCTD	33	52	53.7	N 160	34.45	W	>2000	400			dd	
7/11/2012 11:04		Argo float	21	53	0.03	N 161	0.3	W			NAVIS F0154		sv	
7/11/2012 11:54		UCTD	34	53	6.85	N 161	7.5	W	>2000	400			sv	

Daily Log book
only has
RoseHe Log
not the
complete
list of
activities



7/11/2012 15:02		UCTD	35	53	32.46	N	161	38.65	W	>2000	400				jd	
7/11/2012 17:56		UCTD	36	53	48.3	N	162	25.26	W	>2000	400				sv	
7/11/2012 19:00		Drift bottles	1-20	53	54.997	N	162	43.281	W			1-20	20		jd/mk+more	
7/11/2012 21:05		UCTD	37	54	7.9	N	163	15.6	W	>2000	400				jd	
7/11/2012 15:15		XCTD	7	53	33.33	N	161	41.28	W	>2000	1100				sv/jd	
7/12/2012 3:00		UCTD	38	54	20.6	N	164	58.2	W	>1000	400				jd	
7/12/2012 9:01		UCTD	39	55	20.64	N	165	44.07	W	<100	<100				dd	
7/12/2012 15:04		UCTD	40	56	15.86	N	166	44.939	W	<100	<100				jd	
7/12/2012 15:53		Drift bottles	21-40	56	20.288	N	166	44.939	W			21-40			sv	
7/12/2012 21:08		UCTD	41	57	12.473	N	167	39.7972	W	<100	<100				jd	
7/13/2012 3:06		UCTD	42	58	7.997	N	168	39.706	W	<100	<100				jd	
7/13/2012 8:57		UCTD	43	59	1.8	N	169	36.6	W	<100	<100				dd	
7/13/2012 15:00		UCTD	44	60	0.8	N	170	41.6	W	<100	<100				jd	
7/13/2012 21:00		UCTD	45	60	40.688	N	172	11.3332	W	<100	<100				jd	
7/14/2012 3:00		UCTD	46	61	24.9	N	173	44.4	W	<100	<100				jd	
7/14/2012 8:02	SLIP-1	Rosette	1	62	0.73	N	175	3.98	W	80	75.459	1-7	7		jd/sv	
7/14/2012 8:02	SLIP-1	150 kHz ADCP	1	62	0.73	N	175	3.98	W						sv	
7/14/2012 8:02	SLIP-1	Bongo nets	1	62	0.73	N	175	3.98	W			Bottom-7m			am	
7/14/2012 8:02	SLIP-1	Mud grabs*5	1	62	0.73	N	175	3.98	W						mk/lw/dd	
7/14/2012 8:02	SLIP-1	SVP		62	0.73	N	175	3.98	W							
7/14/2012 9:50		Drift bottles	81-98	62	1.4	N	175	6.38	W						sv	
7/14/2012 10:18	SLIP-2	Rosette	2	62	2.99	N	175	12.7	W	81	76	8-14	7		jd/sv	
7/14/2012 10:18	SLIP-2	150 kHz ADCP	2	62	2.99	N	175	12.7	W							
7/14/2012 10:18	SLIP-2	Bongo nets	2	62	2.99	N	175	12.7	W			Bottom-7m				
7/14/2012 10:18	SLIP-2	Mud grabs*5	2	62	2.99	N	175	12.7	W							
7/14/2012 13:57	SLIP-3	Rosette	3	62	23.38	N	174	34.25	W	70	65	15-20	6		jd/sv	
7/14/2012 13:57	SLIP-3	150 kHz ADCP	3	62	23.38	N	174	34.25	W							
7/14/2012 13:57	SLIP-3	Bongo nets	3	62	23.38	N	174	34.25	W							
7/14/2012 13:57	SLIP-3	Mud grabs*5	3	62	23.38	N	174	34.25	W							
7/14/2012 18:06	SLIP-5	Rosette	4	62	33.63	N	173	33.03	W	66	61	21-26	6		jd/sv	
7/14/2012 18:06	SLIP-5	150 kHz ADCP	4	62	33.63	N	173	33.03	W							
7/14/2012 18:06	SLIP-5	Mud grabs*5	4	62	33.63	N	173	33.03	W							
7/14/2012 21:46	SLIP-4	Rosette	5	63	1.8	N	173	27.6	W	71	66	27-32	13		jd/sv	Collected extra bottles for Rhiannon/Varela's incubation work
7/14/2012 21:46	SLIP-4	150 kHz ADCP	5	63	1.8	N	173	27.6	W							
7/14/2012 21:46	SLIP-4	Bongo nets	5	63	1.8	N	173	27.6	W							
7/14/2012 21:46	SLIP-4	Mud grabs*5	5	63	1.8	N	173	27.6	W							
7/14/2012 21:46	SLIP-4	SVP		63	1.8	N	173	27.6	W							
7/15/2012 5:12	BCL6A	Rosette	6	63	55.23	N	172	5.63	W	54	49	33-37	5		jd/sv	
7/15/2012 5:12	BCL6A	150 kHz ADCP	6	63	55.23	N	172	5.63	W							
7/15/2012 11:49	UTBS-5	Rosette	7	64	40.16	N	169	55.16	W	43	38	38-42	5		jd/sv	
7/15/2012 11:49	UTBS-5	150 kHz ADCP	7	64	40.16	N	169	55.16	W							
7/15/2012 11:49	UTBS-5	Bongo nets	7	64	40.16	N	169	55.16	W							
7/15/2012 11:49	UTBS-5	Mud grabs*5	7	64	40.16	N	169	55.16	W							
7/15/2012 14:49	UTBS-2	Rosette	8	64	40.81	N	169	6.04	W	45	40	43-47	5		jd/sv	
7/15/2012 14:49	UTBS-2	150 kHz ADCP	8	64	40.81	N	169	6.04	W							
7/15/2012 14:49	UTBS-2	Mud grabs*5	8	64	40.81	N	169	6.04	W							
7/15/2012 17:32	UTBS-1	Rosette	9	64	59.45	N	169	8.28	W	49	44	48-52	5		jd/sv	
7/15/2012 17:32	UTBS-1	150 kHz ADCP	9	64	59.45	N	169	8.28	W							
7/15/2012 17:32	UTBS-1	Bongo nets	9	64	59.45	N	169	8.28	W							
7/15/2012 17:32	UTBS-1	Mud grabs*5	9	64	59.45	N	169	8.28	W							
7/15/2012 20:26	UTBS-4	Rosette	10	64	57.63	N	169	53.09	W	49	44	53-57	12		jd/sv	Collected extra bottles for Rhiannon/Varela's incubation work
7/15/2012 20:26	UTBS-4	150 kHz ADCP	10	64	57.63	N	169	53.09	W							
7/15/2012 20:26	UTBS-4	Mud grabs*5	10	64	57.63	N	169	53.09	W							
7/16/2012 2:16	BRS-3	Rosette	11	65	42.15	N	168	46.46	W	53	48	58-62	5		jd/sv	
7/16/2012 2:16	BRS-3	150 kHz ADCP	11	65	42.15	N	168	46.46	W							
7/16/2012 2:16	BRS-3	Bongo nets	11	65	42.15	N	168	46.46	W							
7/16/2012 3:04		Drift bottles	61-80	65	41.336	N	168	47.206	W						jd+?	
7/16/2012 7:55	UTN-1	Rosette	12	66	42.69	N	168	23.86	W	34	29	63-66	4		jd/sv	
7/16/2012 7:55	UTN-1	150 kHz ADCP	12	66	42.69	N	168	23.86	W							
7/16/2012 7:55	UTN-1	Bongo nets	12	66	42.69	N	168	23.86	W							
7/16/2012 7:55	UTN-1	Mud grabs*5	12	66	42.69	N	168	23.86	W							
7/16/2012 10:57	UTN-2	Rosette	13	67	3	N	168	43.67	W	45	40	67-71	5		jd/sv	
7/16/2012 10:57	UTN-2	150 kHz ADCP	13	67	3	N	168	43.67	W							
7/16/2012 10:57	UTN-2	Mud grabs*5	13	67	3	N	168	43.67	W							

7/16/2012 13:39	UTN-3	Rosette	14	67	19.77	N	168	54.49	W	49	44	72-76	5	jd/sv
7/16/2012 13:39	UTN-3	150 kHz ADCP	14	67	19.77	N	168	54.49	W					
7/16/2012 13:39	UTN-3	Mud grabs*5	14	67	19.77	N	168	54.49	W					
7/16/2012 15:21	UTN-4	Rosette	15	67	30.02	N	168	54.26	W	50	45	77-81	5	jd/sv
7/16/2012 15:21	UTN-4	150 kHz ADCP	15	67	30.02	N	168	54.26	W					
7/16/2012 15:21	UTN-4	Bongo nets	15	67	30.02	N	168	54.26	W					
7/16/2012 15:21	UTN-4	Mud grabs*5	15	67	30.02	N	168	54.26	W					
7/16/2012 17:24	UTN-5	Rosette	16	67	40.18	N	168	54.32	W	50	45	82-86	5	jd/sv
7/16/2012 17:24	UTN-5	150 kHz ADCP	16	67	40.18	N	168	54.32	W					
7/16/2012 17:24	UTN-5	Bongo nets	16	67	40.18	N	168	54.32	W					
7/16/2012 17:24	UTN-5	Mud grabs*5	16	67	40.18	N	168	54.32	W					
7/16/2012 0:00		Mooring SCH-12W		67	43.092	N	168	50.0096	W	52				
7/16/2012 0:00		Mooring SCH-12		67	42.183	N	168	50.0616	W	52				
7/16/2012 20:41	UTN-6	Rosette	17	67	44.4	N	168	26.42	W	50	45	87-91	5	jd/sv
7/16/2012 20:41	UTN-6	150 kHz ADCP	17	67	44.4	N	168	26.42	W					
7/16/2012 20:41	UTN-6	Mud grabs*5	17	67	44.4	N	168	26.42	W					
7/16/2012 22:12	SEC-2	Rosette	18	67	46.8	N	168	36.14	W	50	45	92-96	5	jd/sv
7/16/2012 22:12	SEC-2	150 kHz ADCP	18	67	46.8	N	168	36.14	W					
7/16/2012 22:12	SEC-2	Bongo nets	18	67	46.8	N	168	36.14	W					
7/16/2012 22:12	SEC-2	Mud grabs*2	18	67	46.8	N	168	36.14	W					
SVP			67	46.8	N	168	36.14	W						
7/17/2012 0:49	UTN-7	Rosette	19	68	0.03	N	168	54.55	W	58	53	97-102	6	jd/sv
7/17/2012 0:49	UTN-7	150 kHz ADCP	19	68	0.03	N	168	54.55	W					
7/17/2012 0:49	UTN-7	Bongo nets	19	68	0.03	N	168	54.55	W					
7/17/2012 0:49	UTN-7	Mud grabs*5	19	68	0.03	N	168	54.55	W					
7/17/2012 3:29	SEC-3	Rosette	20	67	54.06	N	168	14.63	W	59	54	103-107	5	jd/sv
7/17/2012 3:29	SEC-3	150 kHz ADCP	20	67	54.06	N	168	14.63	W					
7/17/2012 3:29	SEC-3	Bongo nets	20	67	54.06	N	168	14.63	W					
7/17/2012 3:29	SEC-3	Mud grabs*5	20	67	54.06	N	168	14.63	W					
7/17/2012 5:30	SEC-4	Rosette	21	68	0.6	N	167	52.34	W	55	50	108-112	5	jd/sv
7/17/2012 5:30	SEC-4	150 kHz ADCP	21	68	0.6	N	167	52.34	W					
7/17/2012 5:30	SEC-4	Bongo nets	21	68	0.6	N	167	52.34	W					
7/17/2012 5:30	SEC-4	Mud grabs*3	21	68	0.6	N	167	52.34	W					
7/17/2012 7:27	SEC-5	Rosette	22	68	7.84	N	167	30.59	W	51	46	113-117	11	jd/sv
7/17/2012 7:27	SEC-5	150 kHz ADCP	22	68	7.84	N	167	30.59	W					Collected extra bottles for Rhiannon/Varela's incubation work
7/17/2012 7:27	SEC-5	Bongo nets	22	68	7.84	N	167	30.59	W					
7/17/2012 7:27	SEC-5	Mud grabs*1	22	68	7.84	N	167	30.59	W					
7/17/2012 9:05	SEC-6	Rosette	23	68	11.46	N	167	18.89	W	49	44	118-122	5	jd/sv
7/17/2012 9:05	SEC-6	150 kHz ADCP	23	68	11.46	N	167	18.89	W					
7/17/2012 9:05	SEC-6	Bongo nets	23	68	11.46	N	167	18.89	W					
7/17/2012 9:05	SEC-6	Mud grabs*1	23	68	11.46	N	167	18.89	W					
7/17/2012 10:23	SEC-7	Rosette	24	68	14.49	N	167	7.25	W	44	39	123-127	5	jd/sv
7/17/2012 10:23	SEC-7	150 kHz ADCP	24	68	14.49	N	167	7.25	W					
7/17/2012 10:23	SEC-7	Bongo nets	24	68	14.49	N	167	7.25	W					
7/17/2012 10:23	SEC-7	Mud grabs*1	24	68	14.49	N	167	7.25	W					
7/17/2012 11:38	SEC-8	Rosette	25	68	18.14	N	166	56.66	W	35	30	128-131	4	jd/sv
7/17/2012 11:38	SEC-8	150 kHz ADCP	25	68	18.14	N	166	56.66	W					
7/17/2012 11:38	SEC-8	Bongo nets	25	68	18.14	N	166	56.66	W					
7/17/2012 11:38	SEC-8	Mud grabs*1	25	68	18.14	N	166	56.66	W					
2012/07/18 20:44	CS-2011	Rosette	26	69	48.608	N	163	25.83	W	20	15	132-135	4	jd/sv
2012/07/18 20:44	CS-2011	Bongo nets	26	69	48.608	N	163	25.83	W					