

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2012-03

DATE:

From:	MAR 1/12	to:	MAR 13/12
VESSEL:			
W.E. RICKER			
PROJECT(S):			
Hi SEAS SALMON			
MARC TRUDEL			

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

WaterProperties.ca

Captain:	SCOTT DODD	First Officer:	DUNGAN M'CALLUM
Second Officer:	SCOTT	Third Officer:	
Fishing Master:	LEG HAN		

Mission Participants / Agencies: PBS / 105

[illegible][illegible]

Data logging computer:	RICKNER	DELL
Data acquisition program:	SEASAVE	V 7.1
CTD deck unit make:	SCABED	model: 11
		serial number: 0424

Primary CTD

Make:	<u>SEABIRD</u>	model:	<u>9</u>	serial number:	<u>506</u>
Primary temperature serial number: <u>2036</u>					
Primary conductivity serial number: <u>3394</u>					
Secondary temperature serial number: <u>4883</u>					
Secondary conductivity serial number: <u>1763</u>					

Transmissometer:	Model:	s/n:	
Fluorometer: Model WET LABS	Cable gain: 60 - AFL-FLS	n:	2215 P, S or NO pump?
Oxygen sensor: SEABIRD	Model: 556 43	s/n:	1119 P, S or NO pump?
PAR sensor:	Model:	s/n:	
Other sensors:	P14 - SEABIRD	s/n:	0051 P, S or NO pump?
Other sensors:		s/n:	
Other sensors:		s/n:	
Other sensors:		s/n:	

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____
 Fluorometer: Model _____ Cable gain: _____ s/n: _____ 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):

Rosette Setup:

Number of bottles: _____
Manufacturer: _____
Volume of bottles (litres): _____

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:

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

Oxygen Kit(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):

Program: Seasave Version: 7.21d TSG#2488
Sampling interval (seconds): 30
Fluorometer sensor serial number: _____
Comments on performance during cruise (comments should also be reflected in the post-cruise report):

ADCP Setup:

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:

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 1 of 1

Month MARCH				Year 2012			Ship W.E. RICKER				Cruise ID 2012-03				
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							
2	JF 01	1501	BE	CTD		001	48° 17.69	123° 35.97	155			2	H.M.		T: 7.14 S: 30.94
		1505	BO				48° 17.68	123° 35.94		145					BOTE 140 For PH
		1510	EN				48° 17.66	123° 35.89							BOTE 140 - CHL/NOTS/SAL
		1516	BE	NET		002	48° 17.65	123° 35.92		150					BONGO
		1543	BE	TRAWL		003	48° 17.937	123° 37.143							TRAWL
2	JF 02	1701	BE	CTD		004	48° 20.12	123° 48.09	113			1			T: 7.17 S: 31.26
		1703	BO				48° 20.14	123° 48.09		108					BOTE 100 - SAL/CHL/NOTS
		1707	EN				48° 20.11	123° 48.10							
		1711	BE	NET		005	48° 20.09	123° 48.08		110					BONGO
		1731	BE	TRAWL		006	48° 20.348	123° 49.374							TRAWL
2	JF 03	1859	BE	CTD		007	48° 23.06	124° 02.92	102			1			T: 7.17 S: 31.44
		1901	BO				48° 23.08	124° 02.97		95					BOTE 100 - SAL/CHL/NOTS
		1903	EN				48° 23.09	124° 03.00							PH = 7.04
		1906	BE	NET		008	48° 23.09	124° 03.03		91					BONGO
		1924	BE	TRAWL		009	48° 23.450	124° 04.748							TRAWL

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 2 of

Month <u>MARCH</u>				Year <u>2012</u>			Ship <u>W.E. RICKER</u>				Cruise ID <u>2012-03</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	PK Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
2	JF 04	2105	BE	CTD		010	48° 26.15	124° 15.90	102		7.19	2	H.M.		T: 7.13 S: 31.40 PH: 7.11
		2107	BO				48° 26.23	124° 16.04		92	7.82				Bottle 10 - for SAL/CAL/NOTS
		2112	EN				48° 26.32	124° 16.14			7.97				Bottle 87 for PH = 7.82
		2116	BE	NET		011	48° 26.34	124° 16.18		80					BONGO
		2135	BE	TRAWL		012	48 26.89	124 17.97							TRAWL
2	JF 05	2246	BE	CTD		013	48° 30.47	124° 27.81	108			1			T: 6.98 S: 30.79
		2248	BO				48° 30.49	124° 27.83		100					Bottle 10 - SAL/CAL/NOTS
		2251	EN				48° 30.49	124° 27.85							
		2254	BE	NET		014	48° 30.50	124° 27.89		103					BONGO
		2312	BE	TRAWL		015	48 30.737	124 29.256							TRAWL
3	JF 6	0034	BE	CTD		016	48° 33.31	124° 42.31	101			1			T: 7.02 S: 30.95
		0037	BO				48° 33.34	124° 42.29		90					Bottle 10 - SAL/CAL/NOTS
		0040	EN				48° 33.36	124° 42.25							
		0046	BE	NET		017	48° 33.40	124° 42.23							BONGO
		0106	BE	TRAWL		018	48 33.692	124 43.295							TRAWL

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 3 of

Month MARCH				Year 2012			Ship W.E. RICKER			Cruise ID 2012-03					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	pH Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
3	1V1 01	1502	BE	CTD		019	48° 57.78	125° 06.51	95		7.41	2	H.N.		T: 7.32 S: 26.21
		1503	BO				48° 57.76	125° 06.46		85	7.79				BOT@ 10m - SAL/CHL/NOTES
		1507	EN				48° 57.72	125° 06.40			8.04				BOT@ 80 FOR pH
		1510	BE	NET		020	48° 57.68	125° 06.38							BONGO
		1529	BE	TRAWL		021	48 57.22	125 07.19							TRAWL
3	1V1 02	1624	BE	CTD		022	48° 54.44	125° 12.59	96		7.31	2			T: 7.07 S: 27.63
		1626	BO				48° 54.40	125° 12.56		86	7.78				BOT@ 10m - SAL/CHL/NOTES/PH
		1631	EN				48° 54.34	125° 12.51			8.22				BOT@ 81 FOR PH
		1635	BE	NET		023	48° 54.35	125° 12.50							BONGO
		1652	BE	TRAWL		024	48 53.74	125 13.41							TRAWL
3	VI 01	1814	BE	CTD		025	48° 47.81	125° 21.79	88		7.29	2			T: 7.28 S: 30.43
		1815	BO				48° 47.77	125° 21.76		78	7.85				BOT@ 10m - SAL/CHL/NOTES/PH
		1819	EN				48° 47.72	125° 21.73			8.10				BOT@ 73 FOR PH
		1822	BE	NET		026	48° 47.71	125° 21.71							BONGO
		1841	BE	TRAWL		027	48 47.07	125 22.82							TRAWL

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 4 of

Month MARCH				Year 2012			Ship W.E RICKER				Cruise ID 2012-03				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Pit Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
3	VI 02	2016	BE	CTD		028	48° 40.48	125° 35.68	184			1	H.M.		T: 7.43 S: 30.49
		2020	BO				48° 40.38	125° 35.72		175					BOT @ 10m - SAL/CHL/HUTS
		2024	EN				48° 40.35	125° 35.73							
		2027	BE	NET		029	48° 40.31	125° 35.74		150					BONGO
		2049	BE	TRAWL		030	48 39.67	125 36.54							TRAWL
3	VI 03	2202	BE	CTD		031	48° 35.82	125° 42.82	64			1			T: 7.42 S: 31.04
		2204	BO				48° 35.80	125° 42.88		55					BOT @ 10m - SAL/CHL/HUTS
		2205	EN				48° 35.80	125° 42.90							
		2209	BE	NET		032	48° 35.79	125° 42.95		54					BONGO
		2228	BE	TRAWL		033	48 35.39	125 44.24							TRAWL
3	VI 04	2347	BE	CTD		034	48° 29.05	125° 51.29	116			1			T: 7.38 S: 31.01
		2349	BO				48° 29.05	125° 51.31		105					BOT @ 10m - SAL/CHL/HUTS
		2352	EN				48° 29.07	125° 51.31							
		2356	BE	NET		035	48° 29.07	125° 51.37							BONGO TRAWL
		0021	BE	TRAWL		036	48 29.06	125 52.85							

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 5 of

Month <u>MARCH</u>				Year <u>2012</u>			Ship <u>W.E. RICHER</u>				Cruise ID <u>2012-03</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							
4	VI 05	0231	BE	CTD	2 ND	037	48° 21.74	125° 54.83	522			1	H.M.		T: 7.56 S: 31.23
		0236	BO				48° 21.72	125° 54.90		250					BOTOM SAL/CAL/NTS
		0241	EN				48° 21.75	125° 54.85							
		0244	BE	NET	3 RD	038	48° 21.76	125° 54.84		150					BONGO
		0146	BE	TRAWL	1 ST	039	48 22.78	125 58.43							TRAWL
4	VI 06	1500	BE	CTD		040	48° 42.20	126° 38.26	7200		7.50	2			T: 7.68 S: 31.50
		1510	BO				48° 42.33	126° 38.07		500	8.00				BOTOM SAL/CAL/NTS/PH
		1525	EN				48° 42.29	126° 38.09			8.40		DEEP SALTS	*	B-TE 495 FOR PH/SAL
		1529	BE	NET		041	48° 42.31	126° 38.09		150					BONGO
		1550	BE	TRAWL		042	48 42.71	126 37.03							TRAWL
4	VI 07	1645	BE	CTD		043	48° 45.66	126° 32.65	475			1			T: 7.65 S: 31.31
		1649	BO				48° 45.66	126° 32.67		250					BOTOM SAL/CAL/NTS
		1654	EN				48° 45.64	126° 32.63							
		1657	BE	NET		044	48° 45.60	126° 32.63		150					BONGO
		1718	BE	TRAWL		045	48 46.05	126 31.48							TRAWL

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

10 52 13:20

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 6 of

Month MARCH				Year 2012			Ship W.E. RICKER				Cruise ID 2012-03				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	PH Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
4	VI 08	1816	BE	CTD		046	48° 49.30	126° 27.11	200			1	H.M.		T: 7.57 S: 31.33
		1821	BO				48° 49.24	126° 27.06		190					BOTOM SAL/CAL/NOTS
		1824	EN				48° 49.22	126° 27.03							* CAP LEFT ON PH
		1827	BE	NET		047	48° 49.22	126° 27.04		150					BONGO
		1847	BE	TRAWL		048	48 49.56	126 25.96							TRAWL
4	VI 09	2001	BE	CTD		049	48° 52.90	126° 20.54	153			1			T: 7.60 S: 31.37
		2004	BO				48° 52.91	126° 20.59		140					BOTOM SAL/CAL/NOTS
		2007	EN				48° 52.94	126° 20.59							
		2011	BE	NET		050	48° 52.99	126° 20.81		149					BONGO
		2031	BE	TRAWL		051	48 53.54	126 19.58							TRAWL
4	VI 10	2136	BE	CTD		052	48° 57.47	126° 15.68	118		7.27	21			T: 7.65 S: 31.43
		2139	BO				48° 57.47	126° 15.79		110	7.89				BOTOM SAL/CAL/NOTS/PH
		2144	EN				48° 57.50	126° 15.82					NO	TRIP	BOTOM SAL/CAL/NOTS/PH
		2147	BE	NET		053	48° 57.54	126° 15.79							BONGO
		2205	BE	TRAWL		054	48 58.07	126 14.68							TRAWL

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 7 of

Month				Year				Ship				Cruise ID			
MARCH				2012				W.E. RICKER				2012-03			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	PA Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
4	VI 11	2306	BE	CTD		055	49° 01.59	126° 09.21	68			2	H.M.		T: 7.59 S: 31.36
		2307	BO				49° 01.60	126° 09.20		58	7.86				BOT@10m - SAL/CHL/NUTS/PH
		2311	EN				49° 01.59	126° 09.14			8.25				BOT@55 FOR PH
		2314	BE	NET		056	49° 01.56	126° 09.17		63					BONGO
		2331	BE	TRAWL		057	49 01.88	126 08.13							TRAWL
5	VI 12	0144	BE	CTD		058	49° 05.22	126° 00.94	46			1			T: 7.29 S: 30.11
		0145	BO				49° 05.23	126° 00.94		40					BOT@10m - SAL/CHL/NUTS
		0147	EN				49° 05.23	126° 00.95							
		0151	BE	NET		059	49° 05.15	126° 01.00		42					BONGO
		0028	BE	TRAWL		060	49 04.89	126 03.71							TRAWL
5	EP 7	1459	BE	CTD		061	49° 06.77	127° 01.86	770			1			T: 7.57 S: 31.83
		1504	BO				49° 06.74	127° 01.96		250					BOT@10m - SAL/CHL/NUTS
		1509	EN				49° 06.69	127° 02.03							
		1514	BE	NET		062	49° 06.69	127° 02.12							BONGO
		1551	BE	TRAWL		063	49 06.60	126 00.59							TRAWL

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 DE = Deployment Time
 BO = Bottom Time of Cast MR = Messenger Release Time
 EN = End Time of Cast RE = Recover Mooring Time

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 8 of

Month MARCH				Year 2012			Ship W.E. RICHER				Cruise ID 2012-03				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	PH Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
5	1V1 03	2253	BE	CTD		064	49° 40.02	126° 09.57	361		7.31	2	H.M.		T: 5.93 S: 14.75
		2258	BO				49° 40.02	126° 09.62		250	7.64				BOT@10m - SAL/CAL/NUTS/PH
		2305	EN				49° 40.02	126° 09.63			8.23		0.1 02	NOXIC	BOT@245m PH
		2309	BE	NET		065	49° 40.02	126° 09.66		150					BONGO
		2330	BE	TRAWL		066	49 39.76	126 11.15							TRAWL
6	1V1 04	0241	BE	CTD		067	49° 38.62	126° 19.78	281			2			T: 6.66 S: 21.30
		0246	BO				49° 38.62	126° 19.77		250				0.04 02	BOT@10m - SAL/CAL/NUTS/PH
		0254	EN				49° 38.63	126° 19.76							BOT@ PH
		0258	BE	NET		068	49° 38.64	126° 19.73		150					BONGO
		0147	BE	TRAWL		069	49 38.86	126 15.53							TRAWL
6	EP 01	1502	BE			070	49° 21.01	126° 31.78	32			1			T: 6.89 S: 30.12
		1503	BO				49° 20.99	126° 31.79		27					BOT@10m - SAL/CAL/NUTS
		1504	EN				49° 20.98	126° 31.80							
		1510	BE			071	49° 20.92	126° 31.83		24					BONGO
		1527	BE			072	49 20.34	126 32.85							TRAWL

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

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 16 April 2010

Notes:

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 9 of

Month				Year			Ship				Cruise ID				
MARCH				2012			W.E. RICHER				2012-03				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	P4 Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
6	EP 02	1619	BE	CTD		073	49° 18.92	126° 36.30	85		7.58	2	H.M		T: 7.01 S: 30.35
		1621	BO				49° 18.90	126° 36.31		75	7.90				BOTE 10 - SAL/CHL/NOTS/PA
		1624	EN				49° 18.87	126° 36.32			8.27				BOTE 70 FOR PA
		1627	BE	NET		074	49° 18.89	126° 36.33		76					BONGO
		1648	BE	TRAWL		075	49 18.09	126 35.91							TRAWL
6	EP 03	1812	BE	CTD		076	49° 16.95	126° 40.83	113			1			T: 7.07 S: 30.39
		1815	BO				49° 16.95	126° 40.84		105					BOTE 10 - SAL/CHL/NOTS
		1818	EN				49° 16.95	126° 40.85							
		1821	BE	NET		077	49° 16.97	126° 40.85							BONGO
		1841	BE	TRAWL		078	49 16.48	126 40.18							TRAWL
6	EP 04	2021	BE	CTD		079	49° 14.70	126° 45.13	119			1			T: 7.18 S: 31.03
		2023	BO				49° 14.66	126° 45.16		110					BOTE 10 - SAL/CHL/NOTS
		2025	EN				49° 14.63	126° 45.15							
		2028	BE	NET		080	49° 14.65	126° 45.22		115					BONGO
		2050	BE	TRAWL		091	49 14.01	126 44.59							TRAWL

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 10 of

Month MARCH				Year 2012			Ship W.G. RICKER				Cruise ID 2012-03				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Plt Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
6	EP05	2228	BE	CTD		082	49° 12.34	126° 49.59	141			1	H.M.		T: 7.30 S: 31.28
		2231	BO				49° 12.28	126° 49.61		130					Bottle on Sal/chem/notes/pH
		2234	EN				49° 12.26	126° 49.65		138					
		2237	BE	NET		083	49° 12.25	126° 49.73							BONGO
		2259	BE	TRAWL		084	49 11.60	126 49.14							TRAWL
7	EP06	0026	BE	CTD		085	49° 10.28	126° 54.13	184		7.65	2			T: 7.45 S: 31.70
		0030	BO				49° 10.25	126° 54.17		175	8.04				Bottle on Sal/chem/notes/pH
		0037	EN				49° 10.18	126° 54.19							Bottle 170 for pH
		0040	BE	NET		086	49° 10.14	126° 54.16		150					BONGO
		0102	BE	TRAWL		087	49 09.72	126 53.92							TRAWL
7	10105	1459	BE	CTD		088	49° 47.31	126° 38.81	126		7.14	2			T: 7.57 S: 25.94
		1502	BO				49° 47.31	126° 38.85		115	7.68				Bottle on Sal/chem/notes/pH
		1507	EN				49° 47.31	126° 38.89			7.96				Bottle 110 for pH
		1510	BE	NET		089	49° 47.31	126° 38.83		120					BONGO
		1530	BE	TRAWL		090	49 47.91	126 39.20							TRAWL

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 11 of

Month MARCH				Year 2012			Ship W. E. RICKER				Cruise ID 2012-03				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	PH Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
7	1V1 06	16 41	BE	CTD		091	49° 54.77	126° 39.44	60		7.20	2	H.M.		T: 8.02 S: 28.05
		16 42	BO				49° 54.77	126° 39.45		50	7.58				Bottle 10 - SAL/CHL/NO3/PH
		16 46	EN				49° 54.77	126° 39.45			7.87				Bottle 45 for PH
		16 49	BE	NET		092	49° 54.78	126° 39.46		51					BONGO
		17 04	BE	TRAWL		093	49 54.02	126 39.49							TRAWL
7	1V1 07	18 14	BE	CTD		094	49° 51.62	126° 44.33	221		7.23	2			T: 7.63 S: 24.73
		18 18	BO				49° 51.62	126° 44.32		210	7.70				Bottle 10 - SAL/CHL/NO3/PH
		18 23/25	EN				49° 51.61/61	126° 44.39/41			8.11				Bottle 205 for PH
		18 27	BE	NET		095	49° 51.60	126° 44.45		150					BONGO
		18 49	BE	TRAWL		096	49 52.25	126 45.29							TRAWL
7	1V1 08	20 06	BE	CTD		097	49° 54.02	126° 47.25	225		7.27	2			T: 7.58 S: 26.93
		20 10	BO				49° 54.00	126° 47.25		215	7.77				Bottle 10 - SAL/CHL/NO3/PH
		20 14/18	EN				49° 53.97/97	126° 47.26/26			8.18				Bottle 210 for PH
		20 21	BE	NET		098	49° 53.97	126° 47.26		150					BONGO
		20 55	BE	TRAWL		099	49 56.21	126 48.88							TRAWL

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

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 16 April 2010

Notes:

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 12 of

Month MARCH				Year 2012			Ship W.C. RICKER				Cruise ID 2012-03				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	PH Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
7	1M109	2158	BE	CTD		100	49° 52.40	126° 50.52	239		7.27	2	H.M.		T: 7.76 S: 26.59
		2203	BO				49° 52.37	126° 50.59		230	7.85				BOT@ 225 for pH
		2209/12	EN				49° 52.35/34	126° 50.63/65			8.24				BOT@ 225 for pH
		2214	BE	NET		101	49° 52.34	126° 50.67		150					BONGO
		2235	BE	TRAWL		102	49 52.08	126 50.69							TRAWL
7	1M110	2321	BE	CTD		103	49° 51.33	126° 55.72	239		7.41	2			T: 7.92 S: 28.48
		2325	BO				49° 51.34	126° 55.70		230	7.90				BOT@ 225 for pH
		2331/32	EN				49° 51.28/29	126° 55.70/70			8.32				BOT@ 225 for pH
		2335	BE	NET		104	49° 51.27	126° 55.69		150					BONGO
		0002	BE	TRAWL		105	49 51.81	126.55.20							TRAWL
8	1M111	0138	BE	CTD		106	49° 57.87	126° 56.16	189		7.35	2			T: 7.26 S: 26.28
		0142	BO				49° 57.91	126° 56.16		180	7.78				BOT@ 175 for pH
		0149	EN				49° 57.92	126° 56.15							BOT@ 175 for pH
		0151	BE	NET		107	49° 57.94	126° 56.15		150					BONGO
		0052	BE	TRAWL		108	49 55.08	126 55.79							TRAWL

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

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 16 April 2010

Notes:

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 13 of

Month <u>MARCH</u>				Year <u>2012</u>			Ship <u>W.E. RICKER</u>				Cruise ID <u>2012-03</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	pH Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
B	101 12	1755	BE	CTD		109	50° 28.33	127° 57.14	144		7.39	2	H.M.		T: 7.31 S: 28.14
		1758	BO				50° 28.32	127° 57.14		135	8.05				Bottle 10 - Sal/CHL/NO3/PH
		18 00/03	EN				50° 28.31/30	127° 57.15/15			8.32				Bottle 130 for PH
		18 06	BE	NET		110	50° 28.29	127° 57.14							BONGO
		18 28	BE	TRAWL		111	50 28.30	127 55.88		CAMERA + RBR CTD					TRAWL
B	101 13	1908	BE	CTD		112	50° 29.45	127° 51.13	60		7.30	2			T: 7.28 S: 27.21
		1909	BO				50° 29.47	127° 51.13		50	7.83				Bottle 10 - Sal/CHL/NO3/PH
		19 12	EN				50° 29.47	127° 51.15			8.10				Bottle 45 for PH
		19 14	BE	NET		113	50° 29.44	127° 51.16		49					BONGO
		2004	BE	TRAWL		114	50 29.12	127 50.59		CAMERA + RBR					TRAWL
B	101 14	2044	BE	CTD		115	50° 29.60	127° 46.24	182		7.36	2			T: 7.27 S: 29.97
		2049	BO				50° 29.59	127° 46.25		172	8.13				Bottle 10 - Sal/CHL/NO3/PH
		20 55	EN				50° 29.59	127° 46.26			8.34				Bottle 170 for PH
		20 58	BE	NET		116	50° 29.59	127° 46.26		150					BONGO
		21 19	BE	TRAWL		117	50 29.82	127 45.45		CAMERA + RBR					TRAWL

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 14 of

Month				Year				Ship				Cruise ID			
MARCH				2012				W.E. RICKER				2012-03			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	pH Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
8	101 15	2224	BE	CTD		118	50° 29.25	127° 45.62	103		7.50	2	H.M.		T: 7.30 S: 27.22
		2226	BO				50° 29.24	127° 45.65		90	8.05				BOTE 85 for PH
		2229/31	EN				50° 29.26/27	127° 45.66/66			8.27				BOTE 85 for PH
		2234	BE	NET		119	50° 29.27	127° 45.63		92					BONGO
		2251	BE	TRAWL		120	50 29.43	127 44.69							TRAWL
9	101 16	0201	BE	CTD		121	50° 26.99	127° 31.60	187		7.31	2			T: 7.65 S: 28.98
		0204	BO				50° 26.99	127° 31.58		175	7.97				BOTE 100 - SAL/CHL/NUTS/PH
		0209/11	EN				50° 26.98/93	127° 31.58/59			8.24				BOTE 170 for PH
		0214	BE	NET		122	50° 26.97	127° 31.58		150					BONGO
		0051	BE	TRAWL		123	50 24.90	127 30.02							TRAWL
 															

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 15 of

Month MARCH				Year 2012			Ship W. E. RICHER				Cruise ID 2012-03				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	pH Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
9	1V1 18	1801	BE	CTD		127	50° 35.87	127° 44.27	79		7.52	2	H.M.		T: 6.65 S: 20.52
		1803	BO				50° 35.86	127° 44.26		70	BOTTLE LEFT ON				Bottle 10 - SAL/CHL/TEMP/pH
		1805/07	EN				50° 35.85/05	127° 44.25/24			PH SENSOR				Bottle 65 for pH
		1809	BE	NET		128	50° 35.84	127° 44.23		69					BONGO
		1830	BE	TRAWL		129	50 35.59	127 42.99							TRAWL
9	1V1 19	1913	BE	CTD		130	50° 35.24	127° 39.12	111		7.35	2			T: 7.16 S: 25.50
		1916	BO				50° 35.23	127° 39.11		100	7.91				Bottle 10 - SAL/CHL/TEMP/pH
		1918/20	EN				50° 35.23/22	127° 39.08/06			8.14				Bottle 95 for pH
		1924	BE	NET		131	50° 35.17	127° 39.09		101					BONGO
		1942	BE	TRAWL		132	50 35.23	127 38.02							TRAWL
9	1V1 20	2058	BE	CTD		133	50° 35.16	127° 26.97	59		7.70	2			T: 7.32 S: 27.26
		2100	BO				50° 35.14	127° 26.95		50	7.95				Bottle 10 - SAL/CHL/TEMP/pH
		2101/03	EN				50° 35.12/11	127° 26.93/92							Bottle 45 for pH
		2105	BE	NET		134	50° 35.12	127° 26.86		55					BONGO
		2121	BE	TRAWL		135	50 34.92	127 28.10							TRAWL

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 16 of

Month				Year				Ship				Cruise ID				Page		of	
MARCH				2012				W.E. RICKER				2012-03				16		1	
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	pH Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments				
							Latitude	Longitude											
9	101 21	2302	BE	CTD		136	50° 27.70	127° 32.31	186		7.43	2	H.M.		T: 7.75 S: 29.52				
		2306	BO				50° 27.67	127° 32.33		175	8.10				BOTE 10m - SAL/CHL/NTS/PA				
		2311/2	EN				50° 27.67/66	127° 32.34/35							BOTE FOR PA				
		2319	BE	NET		137	50° 27.69	127° 32.30							BONGO				
		2340	BE	TRAWL		138	50 27.15	127 31.81							TRAWL				
10	T 07	1501	BE	CTD		139	50° 49.33	129° 13.98	109		7.62	1			T: 6.91 S: 31.64				
		1504	BO				50° 49.39	129° 13.92		100	8.16				BOTE 10m - SAL/CHL/NTS				
		1507	EN				50° 49.47	129° 13.88											
		/	BE	NET		140	CANCELLED								BONGO				
		/	BE	TRAWL		141	CANCELLED								TRAWL				
10	QCSD 01	1955	BE	CTD		142	50° 50.97	128° 23.33	43		7.49	1			T: 7.08 S: 31.03				
		1956	BO				50° 51.05	128° 23.23		35	7.99				BOTE 10m - SAL/CHL/NTS				
		1957	EN				50° 51.08	128° 23.15			8.17								
		2001	BE	NET		143	50° 51.17	128° 22.97		35					BONGO				
		2019	BE	TRAWL		144	50 52.01	128 21.31							TRAWL				

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 17 of

Month MARCH				Year 2012			Ship W.E. RICHER				Cruise ID 2012-03				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	pH Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
10	QCSD 02	2125	BE	CTD		145	50° 55.79	128° 13.62	45		7.54	1	H.M.		T: 6.87 S: 31.46
		2126	BO				50° 55.81	128° 13.60		35	7.95				BOT 10m - SAL/CHL/HUTS
		2127	EN				50° 55.84	128° 13.57			8.11				
		2130	BE	NET		146	50° 55.90	128° 13.53		35					BONGO
		2147	BE	TRAWL		147	50 56.69	128 12.37							TRAWL
10	QCSD 03	2300	BE	CTD		148	51° 00.46	128° 04.84	135		7.57	2			T: 6.78 S: 31.24
		2302	BO				51° 00.52	128° 04.71		125	8.10				BOT 10m - SAL/CHL/HUTS/PH
		2305/07	EN				51° 00.54/55	128° 04.63/59			8.34				BOT 120 FOR PH
		2310	BE	NET		149	51° 00.58	128° 04.57	145	135					BONGO
		2331	BE	TRAWL		150	51 01.08	128 03.24							TRAWL
				DAY LIGHT SAVINGS											
11	QCST 01	1410	BE	CTD		151	50° 52.92	127° 54.44	180		7.46	1			T: 6.89 S: 31.48
		1413	BO				50° 52.92	127° 54.46		170	8.07				BOT 10m - SAL/CHL/HUTS
		1416	EN				50° 52.92	127° 54.47			8.31				
		1419	BE	NET		152	50° 52.93	127° 54.49		150					BONGO
		1440	BE	TRAWL		153	50 52.62	127 53.25							TRAWL

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 18 of

Month MARCH				Year 2010			Ship W.E. RICKER			Cruise ID 2012-03						
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	pH	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude								
11	QCST02	1614	BE	CTD		154	50° 57.22	127° 44.43	359			7.82	2	14.7		T: 6.85 S: 31.67
		1617	BO				50° 57.25	127° 44.54	130?	130		8.25				BOTE 100 - SAL/CHL/NO3/PH
		1623	EN				50° 57.27	127° 44.66				8.36				BOTE 125 FOR PH
		1626	BE	NET		155	50° 57.30	127° 44.69		150						BONGO
		1646	BE	TRAWL		156	50 57.14	127 44.13								TRAWL
11	QCST03	1748	BE	CTD		157	50° 54.34	127° 39.22	436			7.71	1			T: 6.90 S: 31.35
		1754	BO				50° 54.44	127° 39.20		250		8.26				BOTE 100 - SAL/CHL/NO3
		1759	EN				50° 54.49	127° 39.32				8.37				
		1801	BE	NET		158	50° 54.48	127° 39.34		150						BONGO
		1834	BE	TRAWL		159	50 54.36	127 38.93								TRAWL
11	QCST04	2001	BE	CTD		160	50° 49.67	127° 40.95	334			7.75	2			T: 6.99 S: 31.36
		2006	BO				50° 49.66	127° 40.86		250		8.27				BOTE 100 - SAL/CHL/NO3/PH
		2012/14	EN				50° 49.66/66	127° 40.77/75				8.43				BOTE FOR PH
		2017	BE	NET		161	50° 49.66	127° 40.71		150						BONGO
		2030	BE	TRAWL		162	50 49.23	127 38.98								TRAWL

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 16 April 2010

This page is for any notes or observations

④ SOUNDER WAS TRACKING CTD - NOT BOTTOM - CHICKENED OUT @ 130 - SHOULD BE 350m

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 19 of

Month MARCH				Year 2012			Ship W.E. RICKER				Cruise ID 2012-03					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	PH	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude								
11	QCST 05	2156	BE	CTD		163	50° 48.38	127° 26.52	108			7.89	1	A.M.		T: 6.90 S: 31.09
		2158	BO				50° 48.37	127° 26.50		100		8.19				BOTELON SAL/CHL/NOTS
		2201	EN				50° 48.36	127° 26.47				8.31				
		2203	BE	NET		164	50° 48.37	127° 26.45	120	110						BONGO
		2221	BE	TRAWL		165	50 48.78	127 25.45								TRAWL
11	QCST 06	2318	BE	CTD		166	50° 52.86	127° 18.90	118			7.83	2			T: 6.80 S: 30.93
		2320	BO				50° 52.88	127° 18.82		110		8.21				BOTELON SAL/CHL/NOTS / PA
		23 ²³ / ₂₅	EN				50° 52.89/87	127° 18.73/68				8.37				BOTE for PH
		2328	BE	NET		167	50° 52.85	127° 18.64		104						BONGO
		2348	BE	TRAWL		168	50 51.90	127 18.94								TRAWL
12	QCST 07	0155	BE	CTD		169	50° 46.65	127° 26.82	346			7.75	1			T: 6.86 S: 30.92
		0200	BO				50° 46.66	127° 26.83		250		8.27				BOTELON SAL/CHL/NOTS
		0205	EN				50° 46.65	127° 26.87				8.39				(X) PUMP ON @ 135m ↓
		0208	BE	NET		170	50° 46.66	127° 26.90		150						BONGO
		0108	BE	TRAWL		171	50 47.97	127 22.11								TRAWL

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

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

Notes:

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 16 April 2010

