

UTC is +3
From Local 1

Water Properties Group DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month July					Year 2007			Ship LSSL				Cruise ID 2007-19				
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
4	D	2208	BE	ADC		0001	1	44° 25.601	63° 6.767	87	5					
4	D	2224	BE	ROS	UN	0002	1	44° 25.513	63° 6.794	84	60	—	24		N	test cast
		2236		CTD			1a									added alt.
		2242	BO					44 25.475	63 6.808							
		2246	EN					44 25.472	63 6.814							
4	D	2255	BO	GRB		0003	1	44 25.472	63 6.814	84						Van Veen - test grab.
6	LS1		BE	ADC		0004	2	51 4.900	57 25.200	82	5					
			BO													
			EN													
6	LS1	1323	BE	ROS	US	0005	2	51 4.800	57 25.200	82	77	1-10	10			PAR = 6.15
		1331	BO					51 4.800	57 25.20							8 bottles ASC
		1344	EN					51 4.967	57 25.166							Press = 0.2
6	LS1		BO	NET		0006	1	51 4.967	57 25.166		77					Pick-Mi cast
			EN													

Cast Type: USW = Sea Water Loop GRB = Benthic Grab
 BOT = Bottle Cast (no CTD) MOR = Mooring SET = Fish Set
 CTD = CTD (no Rosette) NET = Plankton Haul ADC = ADCP
 ROS = CTD plus Rosette 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

IA = In Air
 DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products
 * Bottom Depth Offset: 9 m (add this number to 'Bottom Depth' for true depth)
 5 July 2007 <http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/>

North Crew : 4 July - 19 July

Local

Officer

QM

4-8

Rod Strawbridge

Jim Ayres

8-12

Marian Punch

Ken Baker

12-4

Carol Dougfield

Steve Archibald

2 2 Water Properties Group DAILY SCIENCE LOG Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month July					Year 2007			Ship LSSL			Cruise ID 2007-19					
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
6	LS1	1541	BE	ROS	US	0007	3	51 5.948	57 25.612	75	71	11-24	14	SR		JOS Geochem cast
		1548	BO					51 5.954	57 25.670							
		1554	EN					51 5.908	57 25.807							
7	LS2	1114	BE	ADC		0008		54 15.258	54 6.027		5	-				
			EN													
7	LS2	1117	BE	ROS	US	0009	4	54 15.258	54 6.027	216	(206)?	25-44	20	SR	N	D/C Press = 0.21
		1132	BO					54 15.188	54 6.003							Pick-Mi Cast
		1152	EN					54 15.165	54 5.995							Press = 0.3
	LS2		BO	NET		0010		54 15.160	54 5.974	220	200					
			EN													
	LS2		BO	NET		0011		54 15.160	54 5.974	220	200					
			EN													

Cast Type:

BOT = Bottle Cast (no CTD)
 CTD = CTD (no Rosette)
 ROS = CTD plus Rosette

USW = Sea Water Loop

MOR = Mooring
 NET = Plankton Haul
 DRF = Drifter

GRB = Benthic Grab

SET = Fish Set
 ADC = ADCP

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

IA = In Air

DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: _____ m/s
 * Depth: From Surface ☒ From Transducer ☒ with an offset of: _____ m

Water Properties Group DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month <u>July</u>					Year <u>2007</u>			Ship <u>LSSL</u>				Cruise ID <u>2007-19</u>					
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments	
								Latitude	Longitude								
7	LS2	1330	BE	ROS	US	0012	5	54 15.570	54 6.045	219	214	45-61	17	}		Pres = 0.2 0.2	
		1347	BO					54 15.625	54 6.056								20 cand. is acting funny
		1403	EN					54 15.722	54 6.091								Geochem Cast
7	LS2	1413	BO	GRB		0013	1	54 15.784'N	54 6.110'W	219	219					good # of worm tubes. mostly sandy/some mud	
7	LS2	1427	BO	GRB		0014	2	54 15.871'N	54 6.148'W	212	212					" "	
7	LS2	1439	BO	GRB		0015	3	54 15.892'N	54 6.116'W	210	210					" "	
7	LS3		BE	ADC		0016		55 58.038	53 15.650								
			EN														
7	LS3	2217	BE	ROS		0017	6	55 58.038	53 15.650	X	1000	62-79	18	SZ		ROS/BO	
			BO					55 57.930	53 15.413							Geochem Cast	
		2324	EN					55 57.651	53 15.396								
7	LS4	1224	BE	ADC		0018		58 29.053	53 39.709	3382	5						
			EN														

Cast Type:

BOT = Bottle Cast (no CTD)
CTD = CTD (no Rosette)
ROS = CTD plus Rosette

USW = Sea Water Loop

MOR = Mooring
NET = Plankton Haul
DRF = Drifter

GRB = Benthic Grab

SET = Fish Set
ADC = ADCP

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

IA = In Air

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned for each cast --do not use Ammonia products

Echosounder Sound Speed Used: 1500 m/s
* Depth: From Surface ☒ From Transducer [] with an offset of: _____ m

check position and UTC for stations

Winch + switch gears at 600m.

4

Water Properties Group DAILY SCIENCE LOG Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month 7					Year 2007			Ship LSSL					Cruise ID 2007-19			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
8	LS4	1224	BE	ROS	US	0019	7	58 29.016	53° 39.740	3382	3000	77-100	24	SR		10C + 12D P=0.4
		1310	BO					58 29.340	53° 39.780							Note cast 9
		1432	EN					58 29.537	53° 39.851							P=0.3 was before
								* PAR taken off	dec to corrosion on p. ws							cast 7
8	LS4		BO	NET		0020		58 29.558	53 40.558	3382	200					Pick-mi cast
			EN													
8	LS4		BO	NET		0021		58 29.558	53 40.558	3382	200					
			EN													
8	LS4	1554	BE	ROS	US	0022	8	58 29.853	53 40.954	3472	3468	101-124	24	SR		ROS Geochem
		1656	BO					58 29.853	53 40.954							cast
		1822	EN					58 30.191	53 41.287							
8	LS4	1729	BE	ROS		0023	9	58 29.053	53° 39.709	3382	300	-	-	SR		Vert. profile
		1730	BO													only Pres = 0.4/10.4
		1744	EN													Soak at surface, not 5m!
								Cast 9 was CTD cast only so Connie + Dranna could choose PAR + Nitrate depths. PAR + ISUS removed after Rosette on deck (depth limited instruments) and deployed cast 7								

Cast Type:

BOT = Bottle Cast (no CTD)
CTD = CTD (no Rosette)
ROS = CTD plus Rosette

USW = Sea Water Loop
MOR = Mooring
NET = Plankton Haul
DRF = Drifter

GRB = Benthic Grab
SET = Fish Set
ADC = ADCP

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

IA = In Air

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned for each cast - do not use Ammonia products

Echosounder Sound Speed Used: _____ m/s
* Depth: From Surface ☒ From Transducer [] with an offset of: _____ m

5 * Winch will always stop at 600m to change gears.

5

Water Properties Group DAILY SCIENCE LOG Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month July					Year 2007			Ship LSSL					Cruise ID 2007-19			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
9	LSS	1117	BE	ADC		00024		61 51.790	54 57.460							
			EN													
	LSS	1122	BE	ROS		0025	10	61 51.867	54 57.406	2643	1000	125-148	24			Geochem Cast
		1147	BO					61 51.904	54 57.311							For this cast, new con,
		1222	EN					61 51.950	54 57.263							File. same sensors but
																new coeffs.
	LSS		BO	NET		0026		61 51.929	54 57.331	2640	200					cast 10: ISUS not powered on
			EN													
	LSS		BO	NET		0027		61 51.929	54 57.331	2640	200					
			EN													
	LSS		BO	NET		0028		61 51.929	54 57.331	2640	200					
			EN													
	LSS		BO	NET		0029		61 51.929	54 57.331	2640	200					
			EN													

Cast Type:

BOT = Bottle Cast (no CTD)
CTD = CTD (no Rosette)
ROS = CTD plus Rosette

USW = Sea Water Loop

MOR = Mooring
NET = Plankton Haul
DRF = Drifter

GRB = Benthic Grab

SET = Fish Set
ADC = ADCP

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

IA = In Air

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: _____ m/s
* Depth: From Surface [] From Transducer [] with an offset of: _____ m

Take, the Care!

Echosounder Sound Speed Used: _____ m/s
* Depth: From Surface [] From Transducer [] with an offset of: _____ m

Water Properties Group

DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

UTC = Local + 3

Month <u>July</u>		Year <u>2007</u>						Ship <u>Louis St-Laurent</u>				Cruise ID <u>2007-19</u>				
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
<u>09</u>	<u>LS 6</u>	<u>2132</u>	<u>BE</u>	<u>ROS</u>	<u>US</u>	<u>0035</u>	<u>11</u>	<u>63 32.117</u>	<u>55 54.156</u>	<u>1182</u>	<u>1000</u>	<u>149-165</u>	<u>17</u>	<u>62/05</u>		<u>Jos, No chertic Geochemistry Cast</u>
		<u>2154</u>	<u>BO</u>					<u>—</u>	<u>—</u>							
		<u>2231</u>	<u>EN</u>					<u>63 32.413</u>	<u>55 54.072</u>							
<u>July 10</u>		<u>0135</u>	<u>DE</u>	<u>XCTD</u>		<u>0036</u>	<u>3</u>	<u>64 9.539</u>	<u>55 17.258</u>	<u>742</u>	<u>742</u>					<u>2230</u>
<u>July 10</u>		<u>0502</u>	<u>DE</u>	<u>XCTD</u>		<u>0037</u>	<u>4</u>	<u>64 53.859</u>	<u>56 48.205</u>	<u>736</u>	<u>736</u>					<u>0230</u>
<u>July 10</u>		<u>0830</u>	<u>DE</u>	<u>XCTD</u>		<u>0038</u>	<u>5</u>	<u>65 34.550</u>	<u>57 18.980</u>	<u>635</u>	<u>635</u>					<u>0530</u>
	<u>LS 7</u>		<u>BE</u>	<u>ADC</u>		<u>0039</u>		<u>66 0.104</u>	<u>57 39.996</u>		<u>5</u>					
			<u>EN</u>													
<u>10</u>	<u>LS 7</u>	<u>1113</u>	<u>BE</u>	<u>ROS</u>	<u>US</u>	<u>0040</u>	<u>12</u>	<u>66 0.104</u>	<u>57 39.996</u>	<u>581</u>	<u>582</u>	<u>166-189</u>	<u>24</u>	<u>SR</u>	<u>✓</u>	<u>Picky cast p=0.4</u>
		<u>1133</u>	<u>BO</u>					<u>66 0.159</u>	<u>57 40.144</u>							
		<u>1201</u>	<u>EN</u>					<u>66 0.094</u>	<u>57 40.591</u>							<u>p=0.4</u>
	<u>LS 7</u>			<u>Drift Bottles</u>								<u>37-42</u>				
	<u>LS 7</u>		<u>BO</u>	<u>NET</u>		<u>0041</u>		<u>66 0.092</u>	<u>57 40.771</u>	<u>577</u>	<u>200</u>					
			<u>EN</u>													

Cast Type:

BOT = Bottle Cast (no CTD)
CTD = CTD (no Rosette)
ROS = CTD plus Rosette

USW = Sea Water Loop
MOR = Mooring
NET = Plankton Haul
DRF = Drifter

GRB = Benthic Grab
SET = Fish Set
ADC = ADCP

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

IA = In Air

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: 1463 m/s
* Depth: From Surface [] From Transducer X with an offset of: 9 m
ie add 9m to get bottom depth

8

8

Water Properties Group
DAILY SCIENCE LOG
Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month <u>July</u>					Year <u>2007</u>			Ship <u>LSSL</u>					Cruise ID <u>2007-19</u>			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
10	LS7		BO	NET		0042		66 0.092	57 40.771	577	200					
			EN													
10	LS7		BO	NET		0043		66 0.092	57 40.771	577	200					
			EN													
10	LS7		BO	NET		0044		66 0.092	57 40.771	577	200					
			EN													
10	LS7	1337	BE	ROS	US	0045	13	66 0.007	57 40.377	590	582	191-213	23	Ge	N	(Due to counting error) MISSING sample 190 Ios/P=0.5 Geochem Cast P=0.3
		1353	BO					65 59.955	57 40.155							
		1418	EN					65 59.854	57 40.332							
	LS7	1514	BO	GRB		0046	1	65°59.768 N	57° 40.123'W	588						mud/coarse sand + fine
			EN													
	LS7	1541	BO	GRB		0047	2	65°59.660'N	57° 40.300'W	581						mud/coarse+fine sands
			EN													

Cast Type:
 BOT = Bottle Cast (no CTD)
 CTD = CTD (no Rosette)
 ROS = CTD plus Rosette

USW = Sea Water Loop
 MOR = Mooring
 NET = Plankton Haul
 DRF = Drifter

GRB = Benthic Grab
 SET = Fish Set
 ADC = ADCP

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

IA = In Air
 DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products
 Echosounder Sound Speed Used: _____ m/s
 * Depth: From Surface ☒ From Transducer [] with an offset of: _____ m

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

<u>Cast Type:</u>	USW = Sea Water Loop	GRB = Benthic Grab	<u>Bottle Firing Method:</u>	<u>Time Code:</u>	IA = In Air	Transmissometer to be cleaned for each cast -- do not use Ammonia products
BOT = Bottle Cast (no CTD)	MOR = Mooring	SET = Fish Set	US = Up / Stop	BE = Beginning Time of Cast	DE = Deployment Time	
CTD = CTD (no Rosette)	NET = Plankton Haul	ADC = ADCP	UN = Up / No Stop	BO = Bottom Time of Cast	MR = Messenger Release Time	
ROS = CTD <i>plus</i> Rosette	DRF = Drifter		DN = Down / No Stop	EN = End Time of Cast	RE = Recover Mooring Time	
Echosounder Sound Speed Used: _____ m/s * Depth: From Surface [] From Transducer [] with an offset of: _____ m						

Water Properties Group

DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month <u>July</u>					Year <u>2007</u>			Ship <u>LSSL</u>					Cruise ID <u>2007-19</u>			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
11	BB1	1106	BE	ADC		0052		68° 11.72	56 25.13	254	5					
1111	BB1	1109	BE	ROS	US	0053	14	68° 11.720	56 25.130	244	244	214-233	20	SR	N	P=0.3
		1124	BO					—	—							Picky cast
		1144	EN					68° 11.720	56 25.130							
	BB1		BE	NET		0054		68° 11.071	56 25.25	240	200					
			EN													
	BB1		BE	NET		0055		68° 11.071	56 25.25	240	200					
			EN													
	BB1		BE	NET		0056		68° 11.071	56 25.25	240	200					
			EN													
	BB1		BO	NET		0057		68° 11.071	56 25.25	240	200					
			EN													
	BB1	14:10		Camera		0171		68° 11.607	56° 25.271	240m						no event #?
		14:32						68° 11.618	56° 25.028							

Cast Type:

BOT = Bottle Cast (no CTD)
CTD = CTD (no Rosette)
ROS = CTD plus Rosette

USW = Sea Water Loop
MOR = Mooring
NET = Plankton Haul
DRF = Drifter

GRB = Benthic Grab
SET = Fish Set
ADC = ADCP

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

IA = In Air

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: _____ m/s
* Depth: From Surface [] From Transducer [] with an offset of: _____ m

Water Properties Group DAILY SCIENCE LOG Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month					Year				Ship					Cruise ID			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments	
								Latitude	Longitude								
	BB1	1242	BE	ROS	US	0058	15	68 11.70	56 25.28	252	245	234-248	15	SK	✓	2os cast	
		1250	BO					68 11.70	56 25.28							P=0.3	
		1307	EN					68 11.70	56 25.28							Geochem Cast	
		1325	BO	GRB		0059	1	68° 11.678' N	056° 25.113' W	242							
			EN														
																Camera on Fvd	
		1338	BO	GRB		0060	2	68° 11.668' N	056° 25.201' W	241						rosette	
			EN														
		1351	BO	GRB		0061	3	68° 11.628' N	56° 25.174' W	239							
			EN														
	→ out of order																
11	BB2	1739	BE	ROS	US	0062	16	68 23.338	57 43.845	324	312	249-262	14	SK	✓	Geochem Cast	
		1749	BO					68 23.318	57 43.849								
		1818	EN					68 23.162	57 43.829							Forgot to trip bot 1	
11		2049	DE	XCTD		0063	XCTD-9	68 23.885	58 44.028	331	331						
11		1548	DE	XCTD		00172	8	68 17.615	57 4.984	410	410						

Cast Type:

BOT = Bottle Cast (no CTD)
CTD = CTD (no Rosette)
ROS = CTD plus Rosette

USW = Sea Water Loop

MOR = Mooring
NET = Plankton Haul
DRF = Drifter

GRB = Benthic Grab

SET = Fish Set
ADC = ADCP

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

IA = In Air

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: _____ m/s
* Depth: From Surface [☒] From Transducer [☐] with an offset of: _____ m

12

3 am → ADCP, Pickering, 4x Nets, Goocham, ADC
12

Water Properties Group DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month July					Year 2007			Ship LSSL M (do)				Cruise ID 2007-19				
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
				ADC		64										
	BBZ	17:49		Camera				68° 23.310	57° 43.848	315m						no event #?
		18:16						68° 23.241	57° 43.824							
11	BB3	2255	BE	ROS	US	65	17	68 34.222	59 42.524	1016+9	1015	263-279	17	SZ/OS	✓	Goocham Cast
		2320	BO					—	—							
		2351	EN					68 34.370	59 42.718							
	BB3			DRAFT Bottles								61-66	6			Bill / Doug / Ed S.
12	—	0109	DE	XCTD		66	10	60 37.522	60 7.474	1489	1100					
	BB4		BE	ADC		67										
	BB4	0249	BE	ROS	US	68	18	68 40.807	60 30.829	1679	1000	280-296	17	SZ/OS	✓	
		0315	BO					68 40.876	60 30.861							
		0353	EN					68 40.966	60 30.086							
		Prior to cast 18% secondary conductivity read back to T duct.														

Cast Type:

BOT = Bottle Cast (no CTD)
CTD = CTD (no Rosette)
ROS = CTD plus Rosette

USW = Sea Water Loop

MOR = Mooring
NET = Plankton Haul
DRF = Drifter

GRB = Benthic Grab

SET = Fish Set
ADC = ADCP

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

IA = In Air

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: 1500 m/s
* Depth: From Surface [] From Transducer [X] with an offset of: _____ m

still need to add offset of +9

13

13

Water Properties Group

DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month July					Year 2007			Ship LSSL					Cruise ID 2007-19			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
12	—	0707	DE	XCTD		69	12	68 44.321	61 7.789	1783	1100					
								11 Failed, T5/3 Failed, but finally 12 was good.								
	BB5		BE	ADC		0070		68 49.832	61 45.435							
			EN													
12	BB5	1057	BE	ROS	US	0071	19	68 49.832	61 45.435	n/800	1000	297-320	24	SR	Y	NO Bottles Picking Cast
		1131	BO	CTD				68 49.858	61 45.468							
		1206	EN					68 49.845	61 45.627			REJECT CAST! BOTTLES NOT SET!!				3 bottles did not trip
12	BB5	1226	BE	ROS	US	0072	20	68 49.845	61 45.627	1850	1000	297-320	24			n.o.b
		1252	BO					68 49.804	61 45.590	BUT		use Cast 20 for bottle				in k - Pick Mi
		1319	EN					68 49.790	61 45.422	↙		risk in 21-24 did not trip on cast (317-320) so ctd dropped in again				cast
	BB5	1412	BE	ROS	US	—	20-Diana	68 49.743	61 45.345	1850						Quick Dip just for Diana. Bottles?
	BB5	1443	BE	ROS	US	0073	21	68 49.787	61 45.380	1850	1000	321-343	23	SR	✓	n.o.s
		1506	BO					68 49.725	61 45.164							Geochem
		1537	EN					68 49.669	61 45.034							+ Phase Cast

Cast Type:
 BOT = Bottle Cast (no CTD)
 CTD = CTD (no Rosette)
 ROS = CTD plus Rosette

USW = Sea Water Loop
 MOR = Mooring
 NET = Plankton Haul
 DRF = Drifter

GRB = Benthic Grab
 SET = Fish Set
 ADC = ADCP

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

IA = In Air
 DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

 Echosounder Sound Speed Used: _____ m/s
 * Depth: From Surface [] From Transducer [] with an offset of: _____ m

14

14

Water Properties Group DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month					Year			Ship					Cruise ID			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
	BB5		BO	NET		0074		68 49.838	61 45.599	1849	200					
			EN													
	BB5		BO	NET		0075		68 49.838	61 45.599	1849	200					
			EN													
	BB5		BO	NET		0076		68 49.838	61 45.599	1849	200					
			EN													
	-	2117	DE	XCTD	1	0173	13	68 49.175	62 18.252	1100						
	BB6		BE	ADL		0077										
			EN													
	BB6	2015	BE	ROS	US	0078	22	68 25.644	62 56.240	1608	1005	344-360	17	52		Geochem
			BO													
		2117	EN					68 25.798	62 56.782							
12	12	2211	DE	XCTD		0079	14	68 19.332	63 15.488	1423	1100					✓

Cast Type:

BOT = Bottle Cast (no CTD)
 CTD = CTD (no Rosette)
 ROS = CTD plus Rosette

USW = Sea Water Loop

MOR = Mooring
 NET = Plankton Haul
 DRF = Drifter

GRB = Benthic Grab

SET = Fish Set
 ADC = ADCP

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

IA = In Air

DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: _____ m/s
 * Depth: From Surface [] From Transducer [] with an offset of: _____ m

15

UTC = Local
+3

15

Water Properties Group

DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month <u>July</u>					Year <u>2007</u>			Ship <u>LSSL</u>					Cruise ID <u>2007-19</u>			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
12	BB7		BE	ADC		0080										
			EN													
12	BB7	2337	DE	Drift Bottles				68 14.971	63 32.922			88-90	6			
12	BB7	2323	BE	ROS	US	0031	23	68 14.885	63 33.081	1250	1005	361-379	19	52/DS	✓	Baffin Island in sight!
		2351	BO					68 15.022	63 32.892							
		0029	EN					68 15.193	63 32.666							Geochem Cast
13	BB7	0131	DE	XCTD		0082	15	68 09.560	63 48.500	932	932					
13	BB8		BE	ADC		0083										BB8 is West side of Davis st.
			EN													
13	BB8	0303	BE	ROS	US	0084	24	68 05.445	64 00.387	147	153	380-398	19	52/DS		Pick-Mi Cast
		-	BO													+ UBC/Winter
		0329	EN					68 05.411	64 00.357							
																Had to stop initial cast - Fluvoro + PAR hung in turned out to be software problem. 24c was final cast.

Cast Type:

BOT = Bottle Cast (no CTD)
CTD = CTD (no Rosette)
ROS = CTD plus Rosette

USW = Sea Water Loop

MOR = Mooring
NET = Plankton Haul
DRF = Drifter

GRB = Benthic Grab

SET = Fish Set
ADC = ADCP

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

IA = In Air

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: 1550 m/s
* Depth: From Surface [] From Transducer [] with an offset of: 9 m

still needs to be added

16

16

Water Properties Group DAILY SCIENCE LOG Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month <u>July</u>				Year <u>2007</u>				Ship <u>Louis St-Laurent</u>				Cruise ID <u>2007-19</u>				
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
13	BB8			Net		0085		68 5.322	64 0.229	168	160					
13	BB8			Net		0086		68 5.322	64 0.229	168	160					
13	BB8			Net		0087		68 5.322	64 0.229	168	160					
13	BB8			Net		0088		68 5.322	64 0.229	168	160					
13	BB8	0448	BE	ROS	US	0089	25	68 05.366	63 59.964	146	150	399-407	9	SZ/OS		Geochem Cast
		0459	BO					—	—							
		0512	EN					68 05.368	63 59.894							

Cast Type:

BOT = Bottle Cast (no CTD)
 CTD = CTD (no Rosette)
 ROS = CTD *plus* Rosette

USW = Sea Water Loop
 MOR = Mooring
 NET = Plankton Haul
 DRF = Drifter

GRB = Benthic Grab
 SET = Fish Set
 ADC = ADCP

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

IA = In Air

DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: 1550 m/s
 * Depth: From Surface [] From Transducer [X] with an offset of: +9 m

still needs to be added

Water Properties Group

DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month <u>July</u>					Year <u>2007</u>			Ship <u>LSSL</u>					Cruise ID <u>2007-19</u>			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
13	BB8	0523		GRB		0090	1	68°05.391' N	63°59.890' W	162						
13	BB8	0535		GRB		0091	2	68°05.405' N	63°59.850' W	162						
13	BB8	0544		GRB		0092	3	68°05.446' N	63°59.794' W	162						
13	BB8	6:13		Camera		0093		68°05.446	63°59.804	160m						
		6:36						68°05.445	63°59.957							
13	BB8	0521		Drift Bottles				68 05.390	63 59.867			91-96	6	DS		
	-	1441		XCTD		0094	15	68 05.560	63 48.50	932	932					XCTD
This XCTD is either event # 82 or # 94																

Cast Type:

BOT = Bottle Cast (no CTD)
CTD = CTD (no Rosette)
ROS = CTD plus Rosette

USW = Sea Water Loop
MOR = Mooring
NET = Plankton Haul
DRF = Drifter

GRB = Benthic Grab
SET = Fish Set
ADC = ADCP

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

IA = In Air

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: _____ m/s
* Depth: From Surface [] From Transducer [] with an offset of: _____ m

Note see pg 19 for events 95 → 99

18

Water Properties Group

DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month <u>July</u>					Year <u>2007</u>			Ship <u>LSSL</u>					Cruise ID <u>2007-19</u>			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
	B39		BE	ADC		100										
			EN													
13	B39	2037	BE	ROS	US	101	26	69 40.533	62 44.781	1972	1000	408-430	23	SZ/OS		1000m Geochem Cast
		2107	BO					64 40.533	62 44.726							
		2138	EN					69 40.526	62 44.686							
	B39			Net		0181		69 40.541	62 44.715	2002	200					
	B39			Net		0182		69 40.541	62 44.715	2002	200					
	B39			Net		0183		69 40.541	62 44.715	2002	200					
				DRIFT Bottles												

Cast Type:

BOT = Bottle Cast (no CTD)
CTD = CTD (no Rosette)
ROS = CTD plus Rosette

USW = Sea Water Loop

MOR = Mooring
NET = Plankton Haul
DRF = Drifter

GRB = Benthic Grab

SET = Fish Set
ADC = ADCP

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

IA = In Air

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: 1550 m/s
* Depth: From Surface [] From Transducer [] with an offset of: +9 m
+9 needs to be added

this sheet goes before #18!

19

Water Properties Group DAILY SCIENCE LOG Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month					Year				Ship				Cruise ID				
July					2007				LSSL				2007-19				
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments	
								Latitude	Longitude								
		134h		Helo-CTD		95	1									Eddy's Helo casts w/ Bryon Gibbons extending ctd lined into coast of Baffin Island	
		134h		Helo-CTD		96	2										
		134h		Helo-CTD		97	3										
		134h		Helo-CTD		98	4										
		134h		Helo-CTD		99	5										
13	-	2313		XCTD		0174	16	69° 8.196	63 18.942	732	732						
14	-	0223		XCTD		0175	17	70 11.659	63 24.443	1824	1100						
14	-	0537		XCTD		0176	18	70 35.137	63 59.620	2138	1100						

Cast Type:

BOT = Bottle Cast (no CTD)
CTD = CTD (no Rosette)
ROS = CTD plus Rosette

USW = Sea Water Loop
MOR = Mooring
NET = Plankton Haul
DRF = Drifter

GRB = Benthic Grab
SET = Fish Set
ADC = ADCP

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

IA = In Air

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: _____ m/s
* Depth: From Surface [] From Transducer [] with an offset of: _____ m

From Bridge Log =

July 13	Helicopter	UTC	CTD's ? Cast Depth	N	W	Elev
1	~200m	2122		68° 02'	64° 13'	0181
2	~200m	"		68° 00'	64° 22'	0182
3	~100m	"		67° 58'	64° 31'	0183
4	~60m	"		67° 57'	64° 36'	0184
5	~30m	"		65° 56'	64° 31'	0185

Water Properties Group

DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month <u>July</u>					Year <u>2007</u>			Ship <u>LSSL</u>					Cruise ID <u>2007-19</u>			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
<u>14</u>		<u>0925</u>		<u>XCTD</u>		<u>9100</u>	<u>23</u>	<u>71 4.197</u>	<u>64 40.371</u>		<u>2100</u>					<u>XCTD + Phage</u> <u>Geochem</u>
								<u>R XCTD/20 (XCTD/19 failed)</u>								
<u>14</u>		<u>1302</u>	<u>BE</u>	<u>ADC</u>		<u>9101</u>		<u>71 33.252</u>	<u>65 24.942</u>	<u>2230</u>						<u>1000</u>
			<u>EN</u>													
				<u>HELO</u>	<u>CTD</u>	<u>w/</u>	<u>19+</u>									
<u>14</u>	<u>BB10</u>	<u>1306</u>	<u>BE</u>	<u>ROS</u>	<u>US</u>	<u>102</u>	<u>27</u>	<u>71 33.252</u>	<u>65 24.942</u>	<u>2230</u>	<u>1000</u>	<u>431-453</u>	<u>23</u>	<u>SK</u>	<u>Y</u>	<u>Geochem + Phage</u> <u>New 15V batteries</u> <u>installed</u>
		<u>1331</u>	<u>BO</u>					<u>71 33.381</u>	<u>65 24.560</u>							<u>P=0.4</u>
		<u>1407</u>	<u>EN</u>					<u>71 33.559</u>	<u>65 24.286</u>							<u>22 did not trip</u>
<u>14</u>	<u>BB10</u>	<u>1542</u>	<u>BE</u>	<u>ROS</u>	<u>US</u>	<u>103</u>	<u>28</u>	<u>71 33.906</u>	<u>65 23.962</u>	<u>2300</u>	<u>2296</u>	<u>154-474</u>	<u>24</u>	<u>SN</u>	<u>Y</u>	<u>Phy cast</u> <u>P=0.3</u>
		<u>1627</u>	<u>BO</u>					<u>71 33.551</u>	<u>65 24.066</u>							
		<u>1717</u>	<u>EN</u>					<u>71 33.579</u>	<u>65 24.139</u>							
	<u>BB10</u>			<u>Nets</u>		<u>104</u>		<u>71 33.423</u>	<u>65 24.481</u>	<u>2282</u>	<u>200</u>					
	<u>BB10</u>			<u>Nets</u>		<u>105</u>		<u>71 33.423</u>	<u>65 24.481</u>	<u>2282</u>	<u>200</u>					

Cast Type:

BOT = Bottle Cast (no CTD)
 CTD = CTD (no Rosette)
 ROS = CTD plus Rosette

USW = Sea Water Loop
 MOR = Mooring
 NET = Plankton Haul
 DRF = Drifter

GRB = Benthic Grab
 SET = Fish Set
 ADC = ADCP

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

IA = In Air

DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: _____ m/s
 * Depth: From Surface [] From Transducer [] with an offset of: _____ m

21

Water Properties Group

DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month <u>July</u>					Year <u>2007</u>			Ship <u>LSSL</u>					Cruise ID <u>2007-19</u>			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
	BB10			Nets		106		71 33.423	65 24.481	2282	200					
	BB10			Nets		107		71 33.423	65 24.481	2282	200					
14	-	1940	DE	XCTD		108	21	71 51.513	65 43.027		2328					
14	-	2202	DE	XCTD		109	22	72 18.405	66 22.310		2365					
15	BO1	JULY 15 0037	BE	ROS	US	110	29	72 44.182	66 59.937	2350	150	454-463	10	52/05		Repeat sample #s! change to 9454 → 9463
		-	BO					-	-							
		0100	EN					72 45.098	67 00.078							
15	BO1			Net		111		72 45.244	67 0.506	2386	200					

Cast Type:
 BOT = Bottle Cast (no CTD)
 CTD = CTD (no Rosette)
 ROS = CTD plus Rosette

USW = Sea Water Loop
 MOR = Mooring
 NET = Plankton Haul
 DRF = Drifter

GRB = Benthic Grab
 SET = Fish Set
 ADC = ADCP

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

IA = In Air
 DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

 Echosounder Sound Speed Used: _____ m/s
 * Depth: From Surface [] From Transducer [] with an offset of: _____ m

Water Properties Group

DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month				July				Year				2007				Ship				LSSL				Cruise ID				2007-19			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments															
								Latitude	Longitude																						
	B01			Net		112		72 45.244	67 0.506	2386	200																				
	B01			Net		113		72 45.244	67 0.506	2386	200																				
	B01			Net		114		72 45.244	67 0.506	2386	200																				
				Drift Bottles								109-114																			
	B01	July 15 0224	BE	ROS	US	115	30	72 45.407	67 00.813	2355	bottom	464-187	24	SZ/DS		2nd cast to															
		—	BO					—	—							Finish off															
		0418	BN					72 45.797	67 02.232			Repeat sample #s!				geochemistry															
												Change to 9464-9474																			
			BE	ADC		0116																									
			BN																												
15	BENDZ	0602	DE	XBT		0177	27	75/4-5 72 42.505	Probe # 4 was bad, re-deployed. 67 56.543	2306	2000																				

Cast Type:

BOT = Bottle Cast (no CTD)
CTD = CTD (no Rosette)
ROS = CTD plus Rosette

USW = Sea Water Loop

MOR = Mooring
NET = Plankton Haul
DRF = Drifter

GRB = Benthic Grab

SET = Fish Set
ADC = ADCP

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

IA = In Air

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: 1550 m/s

* Depth: From Surface [] From Transducer [] with an offset of: _____ m

still need to add +9

Water Properties Group

DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month <u>July</u>					Year <u>2007</u>			Ship <u>LSSL</u>					Cruise ID <u>2007-19</u>			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
15	BEW03	0847	BE	ROS	US	0117	31	72 39.860	68 59.344	2094	2089	480-510	23	SR		Bo.6 / trans very spikey!!
		0930	BO					72 39.728	68 59.006							Geochem cast
		1029	EN					72 39.524	68 58.926							
		Drift	bottles				11	72 39.860	68 59.344				6			118-120 Johannes
																115-117 Steve
15	BEW04	___35		XBT		0118	28	72 37.30	70 00.3	1833	1833					
							15/6									
	BEW05		BE	ADC		0119		72 35.121	70 48.456							
			EN													
	BEW05	1359	BE	ROS	US	0120	32	72 35.121	70 48.456	1478	1479	511-530	20	SR	Y	Geochem
		1431	BO					72 35.066	70 48.529							Cast
		1514	EN					72 34.969	70 48.551							
		Drift	bottles			121-126 - Steve		72 35.121	70 48.456							

Cast Type:

BOT = Bottle Cast (no CTD)
 CTD = CTD (no Rosette)
 ROS = CTD plus Rosette

USW = Sea Water Loop
 MOR = Mooring
 NET = Plankton Haul
 DRF = Drifter

GRB = Benthic Grab
 SET = Fish Set
 ADC = ADCP

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

IA = In Air

DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: _____ m/s
 * Depth: From Surface ☒ From Transducer [] with an offset of: _____ m

Water Properties Group

DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month July					Year 2007			Ship LSSL				Cruise ID 2007-19				
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
15	BEW06	1829	DE	XBT		121	29	72 37.195	71 29.062		1156	←	Bad probe			
	BEW07		BE	ADC		122										
			EN													
	BEW07	1905	BE	ROS	US	123	33	72 29.958	71 57.477	1049	1042	531-549	19	SM	N	P.O.B
		1820	BO					72 29.856	71 59.649							Geochem
		1901	EN					72 29.854	72 0.215							Cast
15	BEW08	2028	DE	XBT		124	31	72 27.314	72 36.220	910	910					
								^ T5/7-9 7+8 failed, 9 was good								
	BEW09		BE	ADC		125										
			EN													
	BEW09	2141	BE	ROS	US	126	34	72 24.901	73 09.936	676+91	681db	550-567	18	52/OS	Y	Geochem Cast
			BO					—	—							
		2232	EN					72 24.898	73 09.988							
			#2	Niskin lanyard broke. Bottle imploded and destroyed Bottles 24, 1-3. Bottle replaced after cast												No samples for # 550-552

Cast Type:

BOT = Bottle Cast (no CTD)
CTD = CTD (no Rosette)
ROS = CTD plus Rosette

USW = Sea Water Loop
MOR = Mooring
NET = Plankton Haul
DRF = Drifter

GRB = Benthic Grab
SET = Fish Set
ADC = ADCP

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

IA = In Air
DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: _____ m/s
* Depth: From Surface [] From Transducer [] with an offset of: _____ m

25

Water Properties Group

DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month <u>July</u>					Year <u>2007</u>			Ship <u>LSSL</u>					Cruise ID <u>2007-19</u>			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
	BEW09	1945	BE	GRB		127	1	72°24.889'N	73°10.089'W	690						
		2027		GRB		128	2	72°24.911'N	73°10.164'W	690						
		2048		GRB		129	3	72°24.932'N	73°10.181'W	690						
	BEW09	0024	BE	ROS	US	0130	35	72 24.942	73 10.826	659	667 ⁰⁴	568-570	3	sz/os		2nd cast to
			BO					—	—							get the first 3 bottles
			EN					72 24.929	73 11.461							lost on first cast @ BEW09
				DRIFT		Bottles	3					134-139				

Cast Type:
 BOT = Bottle Cast (no CTD)
 CTD = CTD (no Rosette)
 ROS = CTD *plus* Rosette

USW = Sea Water Loop
 MOR = Mooring
 NET = Plankton Haul
 DRF = Drifter

GRB = Benthic Grab
 SET = Fish Set
 ADC = ADCP

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

IA = In Air
 DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products
 Echosounder Sound Speed Used: 1550 m/s
 * Depth: From Surface [] From Transducer [] with an offset of: 9 m

+9 still need to apply

Water Properties Group DAILY SCIENCE LOG Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month <i>July</i>					Year <i>2007</i>			Ship <i>LSSL</i>					Cruise ID <i>2007-19</i>			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
16	BEW10	0230	DE	XBT		0131	32	72 22.696	73 47 085	167	167					
16	BEW11	1607	BE	ADC		0132		72 23.116	73 53.873							
			EN													
	BEW11	1623	BE	ROS	US	0133	36	72 23.116	73 53.873	153	149	571-583	13	sn	Y	Geocham
		1630	BO					72 23.123	73 53.853							Cast
		1643	EN					72 23.104	73 53.860							
	BEW11			NET		0134		72 23.113	73 53.845	153	130					
	BEW11			NET		0135		72 23.113	73 53.845	153	130					
	BEW11			NET		0136		72 23.113	73 53.845	153	130					

Cast Type:
 BOT = Bottle Cast (no CTD)
 CTD = CTD (no Rosette)
 ROS = CTD plus Rosette

USW = Sea Water Loop
 MOR = Mooring
 NET = Plankton Haul
 DRF = Drifter

GRB = Benthic Grab
 SET = Fish Set
 ADC = ADCP

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

IA = In Air
 DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products
 Echosounder Sound Speed Used: _____ m/s
 * Depth: From Surface ☒ From Transducer [] with an offset of: _____ m

Cast Type:	USW = Sea Water Loop	GRB = Benthic Grab	Bottle Firing Method:	Time Code:	IA = In Air	Transmissometer to be cleaned for each cast -- do not use Ammonia products
BOT = Bottle Cast (no CTD)	MOR = Mooring	SET = Fish Set	US = Up / Stop	BE = Beginning Time of Cast	DE = Deployment Time	
CTD = CTD (no Rosette)	NET = Plankton Haul	ADC = ADCP	UN = Up / No Stop	BO = Bottom Time of Cast	MR = Messenger Release Time	
ROS = CTD <i>plus</i> Rosette	DRF = Drifter		DN = Down / No Stop	EN = End Time of Cast	RE = Recover Mooring Time	
Echosounder Sound Speed Used: _____ m/s						
* Depth: From Surface [] From Transducer [] with an offset of: _____ m						

Water Properties Group

DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month				Year				Ship				Cruise ID				
July				2007				LSSL				2007-19				
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
				Helo CTD		0143										
				Helo CTD		0144										
	BB11	JULY 17 0604	BE	ROS	US	0145	38	74 7.450	77 45.114	840+9 820		607-624	18	52/36	✓	Geochem
			BO					X	X	1550SS						Cast
		0657	EN					74 7.487	77 07.488							Entrance to
	BB11			NET		0179		74 7.459	77 45.085	839	200					Launceston Sound
				DRIFT	Botlles			74 7.77	78 40.38			145-150	6			Strong surface current
17	CAA 2	1252	BE	ADC		0146										
	CAA 1	1316	BE	ROS	US	0147	39	74 8.466	81 33.222	785	762	625-648	24	SR		Combined
		1341	BO					74 8.347	81 33.046							Geochem /
		1408	EN					74 8.157	81 33.099							Pick Mi /
																Phase Cast

Cast Type:

BOT = Bottle Cast (no CTD)
CTD = CTD (no Rosette)
ROS = CTD plus Rosette

USW = Sea Water Loop

MOR = Mooring
NET = Plankton Haul
DRF = Drifter

GRB = Benthic Grab

SET = Fish Set
ADC = ADCP

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

IA = In Air

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: 1550 m/s
* Depth: From Surface [] From Transducer [] with an offset of: +9 m

Water Properties Group

DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month <u>July</u>					Year <u>2007</u>			Ship <u>LSSL</u>					Cruise ID <u>2007-19</u>			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude <u>N</u>	Longitude <u>W</u>							
	17 CAA 1		180	NET		0148		74 8.886	81 35.725	700	200					
			EN													
	CAA 1		130	NET		0149		74 8.880	81 35.725	700	200					
			EN													
		1504	BO	GRB		0150	1	74°07.410'N	81°33.279'W	767						
		1538	BO	GRB		0151	2	74°07.018'N	81°33.030'W	763						
		1606	BO	GRB		0152	3	74°06.734'N	81°33.377'W	760						
17	CAA 2		DE	ADC		153										
17	CAA 2	2323	BE	ROS	US	154	40	74 13.061	85 39.000	547 ⁺⁹	531+5	649-672	24	S2/SC	✓	Creochant Prickly
		2342	BO					—	—							
18		0007	EN					74 13.092	85 38.747							
				Net		155										

Cast Type:

BOT = Bottle Cast (no CTD)
 CTD = CTD (no Rosette)
 ROS = CTD plus Rosette

USW = Sea Water Loop
 MOR = Mooring
 NET = Plankton Haul
 DRF = Drifter

GRB = Benthic Grab
 SET = Fish Set
 ADC = ADCP

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

IA = In Air

DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: 1550 m/s
 * Depth: From Surface [] From Transducer [] with an offset of: _____ m

Water Properties Group

DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month <u>July</u>					Year <u>2007</u>			Ship <u>LSSL</u>					Cruise ID <u>2007-19</u>			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
	CAA2			Net		156		74 13.125	85 40.726	544	200					
	CAA2			Net		157		74 13.125	85 40.726	544	200					
	CAA2			Net		158		74 13.125	85 40.726	544	200					
	CAA2	0039	BO	GRB		159	1	74°13.064'N	85°38.476'W	544						
	CAA2	0100	BO	GRB		160	2	74°13.004'N	85°38.287'W	548						
	CAA2	0123	BO	GRB		161	3	74°12.994'N	85°38.221'W	548						

Cast Type:
BOT = Bottle Cast (no CTD)
CTD = CTD (no Rosette)
ROS = CTD *plus* Rosette

USW = Sea Water Loop
MOR = Mooring
NET = Plankton Haul
DRF = Drifter

GRB = Benthic Grab
SET = Fish Set
ADC = ADCP

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

IA = In Air
DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products

Echosounder Sound Speed Used: _____ m/s

* Depth: From Surface [] From Transducer [] with an offset of: _____ m

Water Properties Group

DAILY SCIENCE LOG

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Month <u>July</u>					Year <u>2007</u>			Ship <u>LSSL</u>					Cruise ID <u>2007-19</u>			
Day (UTC)	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Cast Number	Position		Bottom Depth*	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. cleaned	Comments
								Latitude	Longitude							
	<u>CAA2</u>	<u>1:57</u>		<u>Camern</u>		<u>162</u>		<u>74°12.929</u>	<u>85°38.212</u>	<u>545m</u>						<u>✓</u>
		<u>2:31</u>						<u>74°12.801</u>	<u>85°38.009</u>							
	<u>CAA3</u>			<u>BE ADC</u>		<u>163</u>		<u>74°13.406</u>	<u>89°42.854</u>							
	<u>CAA3</u>	<u>0232</u>	<u>BE</u>	<u>ROS</u>		<u>164</u>	<u>41</u>	<u>74°13.406</u>	<u>89°42.854</u>	<u>217</u>	<u>204</u>	<u>673-687</u>	<u>15</u>	<u>SL</u>		
		<u>0246</u>	<u>BO</u>					<u>74°13.406</u>	<u>89°42.838</u>							
		<u>0259</u>	<u>EN</u>					<u>74°13.396</u>	<u>89°42.862</u>							
	<u>CAA3</u>	<u>8:18</u>		<u>Camern</u>		<u>165</u>		<u>74°13.316</u>	<u>89°42.968</u>	<u>223m</u>						
		<u>8:45</u>						<u>74°13.205</u>	<u>89°42.923</u>							
	<u>CAA4</u>			<u>ADC</u>		<u>165</u>		<u>74°25.570</u>	<u>93°29.074</u>							
						<u>0190</u>										
<u>18</u>	<u>CAA4</u>	<u>1326</u>	<u>BE</u>	<u>ROS</u>	<u>US</u>	<u>9164</u>	<u>42</u>	<u>74°25.570</u>	<u>93°29.074</u>	<u>155</u>		<u>688-702</u>	<u>15</u>	<u>SL</u>	<u>N</u>	
			<u>BO</u>					<u>74°25.569</u>	<u>93°29.075</u>							
			<u>EN</u>					<u>74°25.421</u>	<u>93°29.276</u>							

Cast Type:
BOT = Bottle Cast (no CTD)
CTD = CTD (no Rosette)
ROS = CTD plus Rosette

USW = Sea Water Loop
MOR = Mooring
NET = Plankton Haul
DRF = Drifter

GRB = Benthic Grab
SET = Fish Set
ADC = ADCP

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

IA = In Air
DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned for each cast -- do not use Ammonia products
Echosounder Sound Speed Used: _____ m/s
* Depth: From Surface [] From Transducer [] with an offset of: _____ m

4 casts / 1900