

DAILY LOG

CRUISE
NUMBER

2000 - 20
22
23

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

5 JULY - 2000

VESSEL

CCGS 'SIR WILFRID LAURIER'

PROJECT

Captain: John Anderson

First Officer: Mike McCullough

Second Officer: PETER VISSER Third Officer: STEVE KENNEDY

Mission Participants / Agencies:
IOS/DO - U. TENNESSEE/NSF

Scientific Personnel: _____

Party Chief: BON VANDERBERG

Name	Watch	Cabin	Name	Watch	Cabin
BOB VAN HARTENBERG		524	MICHEL DESJARDINS (CHS)		
JANE EERT		516	JACOB HOEHN		
HOLLY KELLY		514			
ARIANNE BALSON		539			
JACKIE CLEMENT		512			
JACKIE GREBETIER		411			
LEE COOPER		411			
STEVE GAURIN		615			
VINCE KELLY		647			
MARY TREVORROW (ACOUSTICS)		644			
KEN MORGAN (BIRCHMATS)		644			

[illegible]

Data logging computer: AIR-486 for GULBLINE, SPIRIT 486 for SE-19 / CAROUSEL

Data acquisition program: CTD-BE model: 87107 serial number: 5AE 33
 CTD deck unit make: GUILD SEABIRD

Primary CTD

Make: Cecline model: 488 serial number: 43825

Primary temperature sensor serial number: _____ Calibration date: _____

Primary conductivity sensor serial number: _____ Calibration date: _____

Secondary temperature sensor serial number: _____ Calibration date: _____

Secondary conductivity sensor serial number: _____ Calibration date: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature sensor serial number: _____ Calibration date: _____

Primary conductivity sensor serial number: _____ Calibration date: _____

Secondary temperature sensor serial number: _____ Calibration date: _____

Secondary conductivity sensor serial number: _____ Calibration date: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Comments: _____

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

2000					Month JULY			Ship LAURIER			Cruise I.D. 2020			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
07	ALHD	ROS	0130	BE	001	48° 22.22'	123° 27.92' W	80.7%	78	73	1-3	3	AJE	test cast for sal cal
08	BLUF	ROS/NET	1555	BE	002	52° 38.06'	128° 29.86'	71.3	275		4-8	5	AJE	Boat BLUF
09	BD-01	ROS/NET	054	BE	003	54° 31.95'	131° 25.50'	81.9	65	61	9-14	6	BYH	BOT#2 TOP CAP LEAKED NO WINCH COUNTER!
10	BD-02	ROS/NET	1715	BE	004	55° 37.54'	135° 00.61'	81.9	210	203	15-19	5	BON	BOTTOM BOT NOT FIRED - STILL NO WINCH COUNTER
11	BD-03	ROS/NET	1705	BE	005	57° 46.46' N	140° 21.46' W	83.5	3229	600	20-25	6	JE	SWAPPED BOT#2 & 12 BEFORE NET TOWS
12	KY-08	ROS	0908	BE	006	59° 23.45' N	144° 00.09' W	82.1	2997	600	26-	2	BON	NOTES @ 560 - BOT#1 sal cal @ 560 - BOT#2
12	KY-07	ROS	11007	BE	007	59° 28.73' N	143° 59.97' W	63.3/84.1	1640	600	27	1	JE	sal cal @ 526
12	KY-06	ROS	1107	BE	008	59° 34.07' N	143° 59.96' W	65.6/83.9	1130	598	28	1	JE	sal cal @ 459
12	KY-05	CTD	1208	BE	009	59° 39.48' N	144° 00.16' W	73.8/81.4	137	131		0	JE	
12	KY-04	CTD	1253	BE	010	59° 44.94' N	143° 59.99' W	74.3/81.0	114	110		0	JE	
12	KY-03	CTD	1339	BE	011	59° 50.35' N	144° 00.23' W	81.9	87	82		0	JE	
12	KY-02	CTD	1423	BE	012	59° 53.01' N	144° 00.09' W	72.9	70	68		0	JE	
12	KY-01	ROS/NET	1448	BE	013	59° 55.66' N	144° 00.05' W	80.4	53	51	29-34	6	JE	grey skies, calm - NET TOWS AFTER CTD
13	SW-10	ROS	0413	BE	014	59° 11.47' N	147° 13.31' W	74.2	625	600	35-36	3	JE	nutrient sample from surface bottle / sal cal @ 450
13	SW-09	CTD	0605	BE	015	59° 21.31' N	147° 30.20' W	82.2	115	111		0	JE	
13	SW-08	CTD	0728	BE	016	59° 28.49' N	147° 46.05' W	86.4	112	110		0	JE	
13	SW-07	CTD	0847	BE	017	59° 35.68' N	148° 01.92' W	82.8	118	115		0	JE	
13	SW-06	CTD	0935	BE	018	59° 39.46' N	148° 10.40' W	76.3	90	85		0	JE	
13	SW-05	CTD	1021	BE	019	59° 42.99' N	148° 18.38' W	53.7	171	166		0	JE	

Cast type:

BOT = otter cast

ROS = Rosette

USW = sea water loop

Time Code

BE = beginning time of cast

DE = end time of cast

#2 LEAK
NO CORSE

527

Cast type:

BOT = otter cast
CTD = CTD
MOR = mooring

ROS = Rosette
NET = net haul
DRF = drifter

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Time Code

BE = beginning time of cast
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RE = recover mooring time

Ship's Sounding

#2 LEAK

NO CORRECTION

527

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Lab Simrac

Year					2000					Month					July					Ship LAURIER					INSTITUTE OF OCEAN SCIENCES				
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude N	Longitude W	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments															
13	SW-04	CTD	1112	BE	020	59° 46.69' N	148° 25.94' W	77.9%	138	135	—	0	JE																
13	SW-03	CTD	1155	BE	021	59° 49.98' N	148° 33.20' W	68.8	131	125	—	0	JE																
13	SW-02	CTD	1229	BE	022	59° 51.77' N	148° 37.02' W	73.3	102	94		0	JE																
13	SW-01	ROS/NET	1304	BE	023	59° 53.71' N	148° 41.45' W	77.4	78	75	37-42	6	JE																
			1353	EN	023	59° 53.91'	148 41.95																						
14	KD-09	ROS	1110	BE	024	57° 09.65'	150° 50.19' W	68.6	874	600	43-44	3	JE	NUT @ surface															
14	KD-08	ROS	1231	BE	025	57° 13.98'	151° 03.08' W	70.4	124	118	45	1	JE	sal cal @ 355, 600															
14	KD-07	CTD	1340	BE	026	57° 17.73'	151° 16.22' W	59.7	144	138	46	1	JE	sal cal @ 10m Vmax=12.1 SBE															
14	KD-06	CTD	1433	BE	027	57° 20.52' N	151° 24.70' W	68.8	136	130	—	0	JE	sal cal @ 6m															
14	KD-05	CTD	1528	BE	028	57° 23.16' N	151° 33.38' W	65.3	69	63	—	0	JE																
14	KD-04	CTD	1627	BE	029a	57° 25.83' N	151° 42.63' W	74.6	64	59	—	0	JE	GLD-029 = partial cast -															
14	KD03	CTD	1714	BE	030	57° 28.46' N	151° 50.87' W	72.7	72	68	—	0	JE	GLD-029A = Repeat															
14	KD02	CTD	1751	BE	031	57° 30.34' N	151° 56.76' W	73.8	98	95	—	0	JE	SBE-029 HAS BOTH OF THESE															
14	KD01	ROS/NET	1822	BE	032	57° 31.91' N	152° 01.34' W	13.7	64	62	47-52	6	JE																
14	"	"	1922	EN		57 32.55	152 01.05		68																				
14	KODIAK	CTD	2248	BE	033	57° 44.48' N	152° 23.39' W	67.8	60	57	—	0	JE																
15	BD4	ROS/NET	1956	BE	034	55° 47.01' N	155° 20.92' W	75.1	58	55	53-58	6	JE	extra bottles fired for															
16	BDS	ROS/NET	1451	BE	035	54° 38.80' N	159° 26.68' W	65.4	76	73	59-64	6	JE	50 fluorometer calibration															
16	"	"	1530	EN		54 38.63	159 26.48		75					extra bottles etc															

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month JULY			Ship LAURIER			Cruise I.D. 2000-20			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude N	Longitude W	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
17	BCS1	ROS/NET	1636	BE	036	54° 19.22'	165° 37.86'	46.9	71	67	65-70		JE	BERING SEA, OFF AKON HED
	BCS1		1721	EN		54 18.93	165 37.25		62					
18	BCS4	ROS/NET	2212	BE	037	59° 18.96' N	170° 56.04' W	66.2	72	70	71-76	9	JE	extra bottles for JG work.
			2240	EN		59 18.74	170 55.95		72					
19	SLIP1	ROS	1546	BE	038	62° 00.81' N	175° 03.40' W	70.4	80	75		10	JE	water collected for JG work
			1647	EN		62° 00.93'	175° 03.68' W							DOWNLOADED INTERNAL FILES FROM SDE-19
19	SLIP2	ROS	1724	DE	039	62° 03.09' N	175° 12.45' W	76.1	80	74		10	JE	water for JG.
				EN		62° 03.04' N	175° 12.48' W							
19	SLIP3	ROS/NET	2044	BE	040	62° 23.65' N	174° 34.16' W	71.1	71	65	77-82	10		
			2112	EN		62° 23.64	174° 33.88							
20	SLIP5	ROS	0019	BE	041	62° 33.95'	173° 33.19' W	87.1	65	60		10		water for JG work.
20	SLIP4	ROS	0357	BE	042	63° 01.69' N	173° 27.46' W	88.2	70	68				
20	BCS6	ROS	0925	BE	043	63° 51.01' N	172° 23.92' W	81.8	56	53	83-88	6		
20	UT-BS5	ROS	1541	BE	044	64° 40.01' N	169° 52.98' W	83.5	47	43				
20	UT-BS2	ROS	1817	BE	045	64° 40.99' N	169° 05.92' W	75.8	45	42		10		
20	UT-BS4	ROS/NET	2154	BE	046	64° 57.51' N	169° 53.03' W	86.0	48	44	89-94	10		full station
			2217	EN		64 57.60	169 53.19		48					
21	UT-BS1	ROS	0106	BE	047	64° 59.53' N	169° 08.13' W	83.2	48	46		10		
		- over for BCS1 -												

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month JULY			Ship LAURIER				Cruise I.D. 2006-20		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude N	Longitude W	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
21	BRS1	ROS/NET	0625	BE	048	65° 39.12'	168 13.02'	78.7%	39	36	95-100	6	JE	2.1 KNOTS CURRENT NORTHWARD, CALM WIND
			0659	EN	048	65 39.58	168 13.77							
21	BRS2	ROS	0759		049	65° 40.05'N	168° 23.85'	71.4	51	49	101-106	6		
21	BRS3	ROS/NET	0846	BE	050	65 40.91	168 33.98	72.7	51					
—	—		0909	EN	—	65 40.91	168 33.99							
21	BRS4	ROS	1003	BE	051	65 42.03	168 43.03	72.4	50	49				
21	BRS5	ROS/NET	1048	BE	052	65 42.98	168 53.89	75.3	48	46				FLAT CALM, OFF L-DUTED
			1115	EN	—	65 43.03	168 53.87							DOWNLOADED SBG-19 INTERNAL DATA (7CAST)
22	UTN-1	CTD	1456	BE	053	66 42.52	168 23.93	—	30	25 WIRE				WELL DECK SBG #1030 + 5 GRABS, NO ROSETTE
22	UTN-2	ROS/NET	1755	BE	054	67 03.07	168 43.93	68.9	46	43.5				FULL STN,
—			1818	EN		67 03.11	168 43.95							
22	UTN-3	ROS	2100	BE	055	67 20.04	168 57.02	68.4	50	48				
22	UTN-4	ROS	2258	BE	056	67 30.10	168 54.70	72.9	50	45				
23	UTN-5	ROS	0105	BE	057	67 40.24	168 57.41	60.2	50	47				
23	UTN-6	ROS	0316	BE	058	67 44.30	168 25.95	64.5	50	47				FIRST SNOW
23	UTN-7	ROS	0618	BE	059	67 59.93	168 55.98	71.1	57	54				
23	BDS6	ROS/NET	1707	BE	060	69 11.88	166 08.95	75.6	31	29				
—			1727	EN	—	69 11.89	166 09.03							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION															INSTITUTE OF OCEAN SCIENCES				
Year <u>2000</u>					Month <u>JULY/AUGUST</u>			Ship <u>LAURIER</u>				Cruise I.D. <u>2000-20</u>							
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude N	Longitude W	Position <u>TRANSIT START</u>	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments					
25	BD-7	ROS/NET	1708	BE	061	71°09.53'	158°24.17'	63.9	47	44		6		SNOW/FOG OF BARROW NEAR ICE					
—	—		1759	EN	—	71°09.67	158°22.42												
26	BD-8	ROS/NET	1707	BE	062	71°17.9	156°59.78	54.4	47	45.2		6		062 b and 062 c → GUIDELINE CUTOUT AT START SO REDONE CAST					
—	—		1751	EN	—	71°19.62	156°59.59												
28	BD-9	ROS	1710	BE	063	70°54.49	159°29.75	76.1	38	P=35 WIRE=37				ROSETTE/CTD PARTIAL: TEST FOR REG (CTD) + 1 GRAB (SOME TID/SHELLS)					
29	BD-10	ROS	2023	BE	064	71°05.22	154°11.28'		13.6	11		4		EXPECTED DATE ON GLD-RE (WAS 28 JULY)					
30	BD-11	ROS	1721	BE	065	70°48.94	151°32.28		14.4	13		4							
—	—	ROS/NET	1750	EN	—														
01	BD-12	ROS/NET	2003		066	70°11.68	143°01.76		24	22		6							
02	H-5	ROS/NET	1402		067	69°54.77	138°31.36		230	225				RETURN TO DECK → SEE SWATCH. (235 on counter)					
02	H-4	ROS	1538		068	69°50.20	138°36.38		188	183				(191 on counter)					
02	H-3	ROS/NET	1652		069	69°45.52	138°41.31	66.4	171	168?									
02	H-2	ROS	1808		070	69°40.74	138°46.26'	63.1	74	71									
02	H-1	ROS/NET	1909		071	69°36.75	138°50.44	?	30	27									
09	BD-13	ROS GRAB	2352	BE	072	70°39.05	127°45.58	86.0	78	76		6		DRIFTED FROM 25 TO 33 m DEPTH DURING DOWNCAST					
10	BD-14	ROS GRAB	2352	BE	073	71°50.84	125°22.45	91.2	67	65		6							
11	BD-15	ROS GRAB	1510	BE	074	70°03.99	124°07.00	started in water 4/9	49	48		5		SHIP'S DELAY - HAD TO RESTART CTD					
13	BD-16	ROS GRAB	2109	BE	075	68°11.10	113°57.13'	91.9	105	103	5000 Caliber sample at 102.8	8		0-rings on bottle 5 & 6					
15	BD-17	ROS GRAB	1827	BE	076	67°50.25	115°08.55	89.8	30	27.5		5		at anchor, Kuglukuk					

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Sets
17-A in
Bridgely



Where is BD-20
in Bridgely?

Where is BD-21B?
in Bridgely?

Where is BD-23?

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year <i>2000</i>					Month <i>August</i>			Ship <i>Laurier</i>			Cruise I.D. <i>2000-20</i>			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position TRANS. Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
17	BD-18	ROS GRAB	1703	BE	077	68° 13.69	113° 47.45	91.5	160	156		7		5% Calibe sample @ 156 m.
18	BD-19		0057		078	68° 28.42	110° 49.63	91.5	87	85*		5		* touched bottom
18	BD-20		1713		079	69° 02.36	105° 00.14	89.5	18	15.9		4		NOTE: SBD FILE LABELED WRONG. 079H.Hox
20	BD-21		1402		080	68° 32.14	97° 21.37	80.0	22	19		4		Touched bottom @ 19
20	BD-21B		2155		081*	68° 32.14	97° 21.37	82.5	22	19		4		Seal went on A frame Engineers fixing - at anchor
22	BD-22		0038		082	68° 25.60	96° 39.05	81.8	20	17		4		20 Knt SE wind
22	BD-23		1616		083	68° 36.93	95° 53.08	90.5	17	14		4		
24	BD-24		1341		084	68° 52.08	95° 03.716	90.1	68	65		6		cleaned trans lenses were
24	BD-25		2344		085	69° 43.048	96° 04.78	?	34	31		5		shoaled 37 → 34
25	BD-26		1107		086	69° 24.03	94° 06.29	90.8	44	40		5		25 knots
27	BD-27		1445		087	69° 31.35	93° 32.86	88.0	12	8.5		3		surface bottle M.T.
27	BD-27		1450		088	69° 31.35	93° 32.86	—	12	1		1		Seabird only! Surface bottle only
28	BD-28		0416	SEE OVER	89/90	69° 10.79	94° 52.66	84.3	97	94		6		Seabird 089 gld 090
28	BD-29		1951		091	68° 38.47	98° 57.26	85.7	54	49		5		
30	BD-30		035		092	68° 16.28	100° 01.60	86.4	22	18.5		4		Huge Biomass!
30	BD-31		1845		093	68° 32.81	101° 44.68	83.0	88	73		6		guideline 093 0-73 m guideline 094 0-83
30	BD-31		1857		094	68° 32.81	101° 44.68	81.5	88	83		6		Seabird 093- only
31	BD-32		0057		095	69° 7.99	100 44.14	89.5	46	43		6		5% calibration sample

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* Seabird consec # for Stn BD-216 is 080B - my mistake PAB.

28 Aug 2000. While doing the Van Veen mud grabs for this station the GM block fell. It appears that the 'eye bolt' simply unthreaded itself and the block dropped away from the eye and shackle. The ship's personnel will inspect the block and see if it can be made safe to use. There had been people standing in that area moments before. The block is a large GM block - marked for 7/2 wine with 'Ocean Ecology' written in paint. There is a plaque that says 4500 lbs - what? SWL? proof?

Guildline file GLD-0089.hdr is a non-starter - VHF radio bombed it. Go to 0090

29 Aug - BD-30 (5) grabs - They each had 10 - 20 times the animals as the next
(30th UTC) most productive ones.

Aug 30. - Replace bottle #1 (broken valve) with bottle #12 - Tried to repair #1 but there are no valves for the 8L bottles? (long ones) in the spares pit. Will phone Doug or Darren.
- Dawn load Seabird - Battery V main 12.1 (still) V lth 4.9

Guild 093 - Winch operator started cast without waiting at surface, got to 73 m. I had him bring it back up and started Guildline over @ 094
- Seabird is 093 but recorded at the same time as Guildline 094 - both OK.