

DAILY LOG BOOK

MISSION
NUMBER

2009-0017

DATE:

From:

MARCH 2

to:

MARCH 9

VESSEL:

PRINCETON 1

PROJECT:

BROUGHTON SEA LICE

INSTITUTE OF OCEAN SCIENCES
OCEAN SCIENCES AND PRODUCTIVITY DIVISION
SIDNEY, BC, CANADA

Captain: DAVE LEWIS
 Second Officer: _____
 First Officer: JO MROZEWSKI
 Third Officer: _____

Mission Participants / Agencies: _____

[illegible][illegible]

Data logging computer:

Data acquisition program: _____

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

Primary CTD

Make: SEA-BIRD model: SBE19 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?

Secondary CTD

Make: _____ model: _____ serial number: _____ s/n: _____ P, S or NO pump?

Primary temperature serial number: _____ P, S or NO pump?

Primary conductivity serial number: _____ P, S or NO pump?

Secondary temperature serial number: _____ P, S or NO pump?

Secondary conductivity serial number: _____ P, S or NO pump?

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

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: _____ 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?

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

CTD calibration bottle location (height above CTD in metres):

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>MARCH</u>				Year <u>2009</u>			Ship <u>PRINCE TON 1</u>				Cruise ID <u>2009-07</u>				
Day	Station Name	Time PT (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
<u>3</u>	<u>LARSEN</u>	<u>1600</u>	<u>BE</u>	<u>NET TOW</u>		<u>1</u>	<u>50° 36.88</u>	<u>126° 37.87</u>	<u>74 FT</u>	<u>0</u>					<u>SURFACE NET TOW</u>
		<u>1620</u>	<u>EN</u>				<u>50° 36.06</u>	<u>126° 38.22</u>	<u>121 FT</u>						<u>FM 4877 0-6995</u>
		<u>1910</u>	<u>BE</u>	<u>NET PUMP</u>		<u>2</u>	<u>50° 36.3</u>	<u>126° 37.25</u>	<u>55 FT</u>	<u>~10'</u>	<u>=INTAKE</u>				
		<u>2010</u>	<u>EN</u>							<u>(~3m)</u>					
		<u>2000</u>	<u>BE</u>	<u>LIGHT TRAP</u>		<u>3</u>	<u>"</u>	<u>"</u>		<u>0</u>					<u>BEGIN V=1150</u>
		<u>2100</u>	<u>EN</u>												<u>END V=1070</u>
		<u>2020</u>	<u>BE</u>	<u>NET PUMP</u>		<u>4</u>	<u>"</u>	<u>"</u>		<u>~10'</u>	<u>=INTAKE</u>				
		<u>2125</u>	<u>EN</u>							<u>(~3m)</u>					
		<u>2130</u>		<u>CTD</u>		<u>5</u>	<u>"</u>	<u>"</u>		<u>15 m</u>					<u>T=7.1°C</u>
<u>3</u>	<u>LARSEN</u>	<u>2140</u>	<u>BE</u>	<u>LIGHT</u>		<u>6</u>	<u>"</u>	<u>"</u>		<u>0</u>					<u>BEGIN V=1070</u>
<u>4</u>	<u>LARSEN</u>	<u>0730</u>	<u>EN</u>	<u>TRAP</u>											<u>END V=1030</u>
	<u>CL10</u>	<u>1158</u>	<u>BE</u>	<u>CTD</u>		<u>7</u>	<u>50° 36.9</u>	<u>126° 21.6</u>		<u>~100 FT</u>					<u>T=6.9°C</u>
			<u>EN</u>												
	<u>CL10</u>	<u>1200</u>	<u>BE</u>	<u>NET TOW</u>		<u>8</u>	<u>50° 36.9</u>	<u>126° 21.6</u>		<u>0</u>					<u>SURFACE NET TOW #1</u>
		<u>1220</u>	<u>EN</u>				<u>50° 36.7</u>	<u>126° 22.0</u>	<u>95'</u>						<u>FM 4877 6995-12135</u>
	<u>CL10</u>	<u>1230</u>	<u>BE</u>	<u>NET TOW</u>		<u>9</u>	<u>50° 36.6</u>	<u>126° 22.0</u>	<u>126'</u>	<u>0</u>					<u>SURF. NET TOW #2</u>
		<u>1250</u>	<u>EN</u>				<u>50° 36.2</u>	<u>126° 22.9</u>	<u>60'</u>						<u>FM 12135-18222</u>

Cast type:

BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop

MOR = mooring
NET = 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
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Transmissometer to be cleaned for each cast, do not use Ammonia products

28 May 2003
Daily_log_book.doc

3.3 74 SH
.304 m/sy
296
2220
22496 m

MAR 3 - 1400 - DEP ALERT BAY.

MAR 3 - DARRON T. - WEATHER STN AT WHITE CLIFFS ITS.
-

12135
6,995
5140

18222
12135
6087

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>MARCH</u>				Year <u>2009</u>			Ship <u>PRINCETON 1</u>				Cruise ID <u>2009-07</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
4	DRS ITS	1502 ¹⁵¹	BE	CTD		10	50° 39.2	126° 16.7	217 ft	~100 ft					T = 6.9°C
		1505	EN												
	"	1510	BE	NET TOW		11	50° 39.1	126° 16.7							SURF. NET TOW
		1530	EN				50° 39.1	126° 17.5							FM 4877 18435-24305
5	HOEYA	1005	BE	CTD		12	50° 41.2	125° 58.4	276'	~100'					T = 6.91°C
		1009	EN												
		1019	BE	NET TOW		13	50° 41.14	125° 58.12	319'						SURF. NET TOW
		1039	EN				50° 41.11	125° 58.92							FM 4877 4305-11750
	GILFORD SHORE ABOUT 5m PUMISH PT.														
		1517	BE	CTD		14	50° 43.48	126° 12.73	150'	~100'					T = 6.9°C
		1519	EN												
		1521	BE	NET TOW		15	50° 43.49	126° 12.75							SURF. NET TOW
		1541	EN				50° 43.42	126° 13.83							FM 4877 1745-8820
	HUMPHREY	1558	BE	NET TOW		16	50° 42.01	126° 14.79							SURF. NET TOW
	FARM	1618	EN				50° 41.55	126° 15.65							FM 4877 8820-15005

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24305
18435
5870

11750
4305
7445

8820
1745
7075

15005
8820
6185

NOTE - SEA WEED WRAPPED AROUND PROF. $\Rightarrow$ F.M. COUNT LOW?

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							Latitude	Longitude							
6	SARGENT'S PASSAGE	0855	BE	CTD		17	50° 40.22	126° 11.29	394 FT	~100 ft.					T = 6.6°C
	FARM	0900	EN												
		0903	BE	NET HAUL		18	50° 40.11	126° 11.18							SURF. NET HAUL
		0923	EN				50° 40.75	126° 11.48							FM 4877 5005-12080
	CYPRESS	1723	BE	NET		19	50° 50.11	126° 40.06	85.8'						SURF. NET HAUL
	HBR. FARM	1743	EN	HAUL			50° 50.43	126° 39.28	26 m						FM 4877 2080-2570 *
	AT ANCHOR	1822	BE	LIGHT		20	50° 50.11	126° 40.06	68 FT	0	AT ANCHOR				
		2130	EN	TRAP #1											
		1905	BE	LIGHT		21				0					
		2150	EN	TRAP #2											
		1915	BE	PUMP #1		22				~3' = INTAKE					
		2005	EN							(~1m)					
		2015	BE	PUMP #2		23				~3' = INTAKE					
		2115	EN							(~1m)					
		2055		CTD		24				~43' (~13m)					
		2145	BE	L.T. #4		25 BEGIN				0					
		2200	BE	L.T. #3		26 BEGIN				0					

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12080

5045

7075

1100 BROWN PT WEATHER STATION

FM, CLOGGED WITH PHMTO? CYPRESS HBR. BROWN E PHMTO BLOWN.

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							Latitude	Longitude							
7	CYPRESS	0845	EN	L.T. #4		25 END	50° 50.11	126° 40.06	68 FT	0					LIGHT STILL ON
	HBR	0915	EN	L.T. #3		26 END				0					LIGHT OUT
		DAYLIGHT SAVING TIME													
8	JAMES PT	1030	BE	CTD		27	50° 50.33	126° 58.81							
		1035	EN												
	PRINCETON #1	1041	BE	NET		28	50° 50.29	126° 58.92	68'						SURF. NET TOLW
		1101	EN				50° 49.91	126° 59.81	64'						FM #4877 2600-9793
	ZODIAK #1	1127	BE	NET		29	50° 50.04	127° 00.01	2-5 FT						SURF. NET. TOLW
		1137	EN				50° 50.03	127° 00.22							FM #2767 0000-2033
	KENNETH BAY	1130	BE	CTD		30	50° 49.72	127° 00.20	22 FT						
			EN				50° 50.02	127° 00.22							
	P2	1135	BE	NET		31	50° 49.68	127° 00.23	22 FT						SURF. NET TOLW
		1155	EN				50° 49.10	127° 00.74	43 FT						FM #4877 9793-12300
	BOYLES PT.	1200	BE	CTD		32	50° 49.04	127° 00.76	43 FT						
		1210	EN												
	Z #2	1152	BE	NET		33	50° 50.02	127° 00.22	2-10 FT						SURF. NET TOLW
		1202	EN				50° 50.52	127° 00.27							FM #2767 2033-4100
	Z #3	1212	BE	NET		34	50° 50.52	127° 00.27	2-30 FT						SURF. NET TOLW
		1222	EN				50° 50.39	127° 19.5							FM #2767 4100-6445

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P1 JAMES PT. - WESTWARD TOW

Z1 = WESTWARD TOW

P2 KENNETH BAY to BOYLES PT.

FM PLUGGED - "SNOT" - GELATINOUS STRANDS

Z2 = WESTWARD TOW

Z3 = WESTWARD TOW

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
8	P3	1215	60	NET		35	50° 48.97	127° 00.82	40 FT						
		1235	EN				50° 49.57	127° 00.20	115 FT						Fm 4877 2300-5225
	Z #4	1233	60	NET		36	50° 50.49	127° 00.19	730 FT						Hugged wall-arm's reach
		1254	EN				50° 50.18	127° 00.41							Fm 2767 6445-10800
	KENNETH BAY	1245		CTD		37	50° 49.62	127° 00.20	88 FT						
		1253													
	P4	1258		NET		38	50° 49.62	127° 00.19	85 FT						
		1323					50° 49.95	126° 59.46	110 FT						Fm 4877 5225-9080
	JAMES PT.	1345		CTD		39	50° 50.33	126° 58.79							
		1351													
	Z #5	1305		NET		40	50° 49.18	127° 00.41	~20-50 FT						
		1324					50° 49.02	127° 00.52							Fm 2767 10800-14728
	Z #6	1338		NET		41	50° 49.19	127° 00.38	~20-50 FT						
		1358					50° 49.44	127° 00.11							Fm 2767 14728-19780
	POLKINSBORNE IS. #1	1436		NET		42	50° 48.19	126° 56.78	70 FT						
		1456					50° 47.66	126° 56.29	116 FT						Fm 4877 9080-16340
	POLK. IS. #2	1503		NET		43	50° 47.62	126° 56.31	164 FT						
		1523					50° 47.24	126° 55.42	121 FT						Fm 4877 6340-10530

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BOYLES PT EAST → KENNETH BAY

Z4 = WESTWARD TOW - CLOSE TO VERTICAL ROCK WALL - UNKNOWN DEPTH

P4 = KENNETH BAY TO JAMES PT. (EAST)

James
pt
SURFACE SALINITY AT CTD

Z5 SURFACE SALINITY T = 6.8°C

→ EASTWARD TOW FR. POINT TO POINT ACROSS MOUTH OF BAY

Z6 FM - COCKEYED → BRIDLE CABLE HOOKED ON FM SIDE

→ EASTWARD TOW FROM PT. TO PT. ACROSS MOUTH OF BAY

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[illegible]

Cast type:	USW = sea water loop	bottle firing method:	Time Code	
BOT = bottle cast, no CTD	MOR = mooring	US = up / stop	BE = beginning time of cast	DE = deployment time
CTD = CTD without Rosette	NET = net haul	UN = up / no stop	BO = bottom time of cast	MR = messenger release time
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TOW SOUTHWARD ALONG EASTERN-MOST SIDE OF ISLETS

-BUCKING VS. STRONG TIDAL CURRENT - AT BEGINNING OF TOW, BOAT APPEARED TO MAKE NO HEADWAY