

DAILY LOG BOOK

MISSION
NUMBER

2007-46

(PGC# 2007002PBC)

DATE:

From: May 21, 2007 to: May 28, 2007

VESSEL:

Vector

PROJECT:

snell's work - NACON/DFO/Royal Roads
University.

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

Captain: Don Hardy
Second Officer: Rhona
First Officer: Flora
Third Officer: _____

Mission Participants / Agencies:

Scientific Personnel: Audrey Dallimore
 Name Watch Cabin Name

[illegible]

Second leg of Mission: Party Chief:

[illegible]

Data logging computer:

Data logging computer: PAC 07588
 Data acquisition program: Sea Save
 CTD deck unit make: SBEL model: 11 serial number: 0619
 Primary: CTD

Primary CTD

Make: SBE model: 9 serial number: 0585

Primary temperature serial number: 7663

Primary conductivity serial number: 2002 2125

Secondary temperature serial number: 2038

Secondary conductivity serial number: 2173

Transmissometer: _____

Model: _____

Fluorometer: Model	7	Cable gain:
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Oxygen sensor: 5 BE Model: Cubic galli.

PAR sensor: _____ Model: _____
PAR sensor: _____ Model: _____

Other sensors: _____ model: _____

Other sensors:

Other sensors:

Other sensors:

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____ model: _____

Primary conductivity serial number:

Secondary temperature serial number: _____

Secondary conductivity serial number:

Transmissometer: _____
Model: _____

Fluorometer: Model _____ Cable g_____

Oxygen sensor: _____ Model: _____

PAR sensor: _____ Model: _____

Other sensors: _____

Other sensors:

Other sensors:

Other sensors:

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

May 21, 2007 - Start loading ship at 1300
- Huge amount of coring, grabbing & Hunter Gear
- Multibeam system problems
- Depart IOS 1920 - multibeam problems unresolved
- ~ 2300 Kim & Dave get multibeam functioning

May 21, 2007 evening/overnight

- Transit Juan de Fuca Strait to Effingham Inlet/Bankley Sound - 13 hours
- multibeam problems resolved by D. Thornhill

May 22, 2007 - 900 a.m. - D87.

- pick up of Randy Erkin and Iain McKechnie at Uchellat Government dock

a.m. - set-up for Hunter
- fuaboot drill.

1⁵⁰ p.m. D87 - Hurricane boat away for push-coring of edges of
inlet - R. Erkin, D. Spear, C. Middleton, Iain McKechnie

- Hunter survey begins for inner basin - 3 passes the length of
the inlet.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>May</i>				Year <i>2007</i>			Ship <i>CCGS Vector</i>				Cruise ID <i>2007-46 (200702 PGC)</i>				
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							
22/05	EF03	20:32							80m						Hurricane backwash
22/05		22:20		Hunted Fish		1	49°05.43'N	125°11.61'W	40m						Inner basin survey SOL Hunter.
22/05	EF03	22:59					49°05.28'N	125°10.82'W	45m						EOL Hunter.
22/05	EF03	23:43		Freeze Core		2	49°04.25'N	125°09.36'W	121m						Freeze core, FC 157N4 124 blocks - 30' on bottom
22/05	EF03	01:24		Grab		3	49°04.28'N	125°09.38'W	120m		CANCELLED		GRAB NOT WORKING PROPERLY - 2 TRYS		FC2 STN5
23/05	EF07	02:33		Freeze Core		4	49°01.27'N	125°09.40'W	120m						
"	EF07	03:19		Grab		5	49°01.27'N	125°09.38'W	120m						Grab STN6
23/06	overnight			Multi-beam		6									Imperial Eagle channel.
24/06		15:19		Hunted Fish		7	49°01.37'N	125°09.31'W							outer basin survey. SOL Hunter. - necan line 45
24/06		16:18		Piston core	Piston	8	49°01.27'N	125°09.42'W	119						EOL
24/06		17:37		Piston core		8	48°57.29'N	125°10.98'W	89						-3.5 kHz depth over core site.
24/06	EFF15	19:24	BE	ROS	US	9	48°51.40'N	125°14.98'W	96		1-7	7	DS		altimeter not working
"	"	19:30	BO				51.394	14.978		90					no bottle trip lines on overlay
"	"	19:37	EN				51.382	14.976							display. Bottle 3 did
24/06	Dora Island	20:00		Multi-beam		10									not fire (shaky catch)
24/06	Inner Basin	23:55		GRAB		11	48°55.97'N	125°07.98'W	86		SED07-01 SED07-05				Sea Otter samples Peter BGS
24/06	EFF11	00:38		GRAB		12	48°59.14'N	125°10.51'W	85		SED07-04				slightly off EFF11 on the bottom

Cast type:

BOT = bottle cast, no CTD
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bottle firing method:

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Daily_log_book.doc

Smyth-Mac does it release easily - release cum bent - Dave Spear
tries to fix it



@ 116m the rope got caught on gear - broke - caught in time,
before it went bye, bye.

- replaced - but dragged - more delays
- likely dragged while under sediment - likely but don't know
until retrieved

Overnight May 23-24

- multi-beam survey mid-Imperial Eagle Channel (CHS "Diana Island" survey).

May 24

- Randy Eakin and Sean McKechnie on board 12 hours 9am-9pm on
- some crew and science crew went ashore in Hurricane boat to
observe archaeological site on Diana Island

DAILY LOG

May

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Month <i>May</i>				Year <i>2007</i>			Ship <i>VECTOR</i>			Cruise ID <i>2007-46</i>					
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							
<i>24</i>	<i>EFF14</i>	<i>01:25</i>	<i>BE</i>	<i>ROS/CTD</i>		<i>13</i>	<i>48 54.052</i>	<i>125 13.038</i>	<i>103</i>	<i>109</i>	<i>008-014</i>	<i>7</i>		☒	
		<i>01:29</i>	<i>BO</i>				<i>48 54.06</i>	<i>125 13.058</i>							<i>bottle 2 did not fire. stuck label</i>
		<i>01:35</i>	<i>EN</i>				<i>48 53.994</i>	<i>125 13.091</i>							
<i>24</i>	<i>EFF16</i>	<i>02:25</i>	<i>BE</i>	<i>ROS/CTD</i>		<i>14</i>	<i>48 47.621</i>	<i>125 15.913</i>	<i>111</i>		<i>15-021</i>	<i>8</i>			<i>Fired extra bottle</i>
		<i>0</i>	<i>BO</i>				<i>48 47.602</i>	<i>125 15.992</i>		<i>106</i>					<i>42 misfired</i>
		<i>02:37</i>	<i>EN</i>				<i>48 47.563</i>	<i>125 16.024</i>							<i>1213</i>
<i>24</i>	<i>Other Grabs</i>	<i>03:31</i>		<i>Grabs</i>		<i>15</i>	<i>48 51.158</i>	<i>125 21.8409</i>	<i>35</i>						
<i>25</i>		<i>14:38</i>		<i>SUP</i>		<i>16</i>	<i>49 38.4984</i>	<i>126 20.7944</i>	<i>292</i>						<i>sound velocity profile for multi-beam survey</i>
<i>25</i>	<i>MUC04</i>	<i>15:00</i>		<i>Munk</i>		<i>17</i>	<i>49 38.5305</i>	<i>126 20.4744</i>	<i>292</i>						<i>4 knots SOL Munk line 6</i>
<i>25</i>	<i>MUC04</i>	<i>15:00</i>		<i>Multibeam</i>		<i>18</i>	<i>49 38.5305</i>	<i>126 20.4744</i>	<i>292</i>						<i>4 knots SOL Multibeam</i>
	<i>MUC01</i>	<i>18:11</i>		<i>Munk</i>			<i>49 38.36</i>	<i>126 04.93</i>	<i>112</i>						<i>702 Munk</i>
<i>25</i>	<i>MUC01</i>	<i>18:17</i>		<i>Multibeam</i>			<i>49 37.4078</i>	<i>126 03.34</i>	<i>120</i>						<i>502 Munk</i>
<i>25</i>	<i>MUC04</i>	<i>21:09</i>		<i>Multibeam</i>			<i>49 38.774</i>	<i>126 17.77</i>	<i>278</i>						<i>702</i>
<i>25</i>	<i>MUC04</i>	<i>21:27</i>		<i>Multibeam</i>		<i>19</i>	<i>49 38.83</i>	<i>126 18.45</i>	<i>92</i>						<i>502 Multibeam</i>
<i>25</i>	<i>MUC01</i>	<i>23:45</i>													<i>702 Multibeam</i>
<i>26</i>	<i>MUCH GRAB</i>	<i>01:12</i>		<i>GRAB</i>		<i>20</i>	<i>49 39.5067</i>	<i>126 13.4036</i>	<i>364</i>						<i>knave mud with purple corals</i>
<i>26</i>	<i>MUCH GRAB SITE 2</i>	<i>02:18</i>		<i>GRAB</i>		<i>21</i>	<i>49 39.2756</i>	<i>126 05.553</i>	<i>157</i>						<i>Baric only Degraded site 2</i>
<i>26</i>	<i>MUCH GRAB SITE 1</i>	<i>02:44</i>		<i>GRAB</i>		<i>22</i>	<i>49 38.0664</i>	<i>126 04.1837</i>	<i>134</i>						
<i>26</i>		<i>03:06</i>		<i>Freeze core</i>		<i>23</i>	<i>49 38.059</i>	<i>126 04.7165</i>	<i>145</i>						<i>Multibeam 2 blocks</i>

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May 23 2007 1943 PNTC The catch on bottle number 2 is extremely stiff and will not
release. Will remove & soak overnight
1953 - Catch Broken - moved to bottle 24

May 24 2007 15:00 - started Xunte and multi-beam survey at MUCO4
to the east towards head of MUX at MUCO1. 4 knots.

NOTE: 45' 38.78 126° 16.89 - on N side of MUX - multi-beam shows debris floor
from logging & alluvial fan from cliff fall - rock fall to the E

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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
25	MUC1	0413	BE	ROS	US	24	49° 37.507	126° 3.622	132		22-26	5		✓	3 mab
		0418	BO				49	126		126					
		0428	EN				49 37.512	126 3.632							
25	M5km	0526	BE	ROS	US	25	49 38.995	126 5.500	173		27-32	6		✓	3 mab
		0530	BO							167					
		0539	EN				49 39.014	126° 5.546							
25	MUC2	0623	BE	ROS	US	26	49° 40.238	126° 9.458	369		33-41	9		✓	3 mab
		0633	BO				126° 40.218	126 9.505		364					Bottle 3 mist fired
		0649	EN				49° 40.223	126° 9.505							
25	MUC3	0751	BE	ROS	US	27	49° 39.000	126° 14.545	361		42-49	8		✓	shallowed up on station
		0803	BO				49° 38.993	126° 14.476		348					3 mab
		0822	EN				49° 38.899	126° 14.398							
25		15:23		Piston		28	49° 39.2807	126° 14.287	371						40' 20070002 PGCSTN15
25		17:56		Piston		29	49° 39.9732	126° 10.7337	370						40' 20070002 PGCSTN16
25		20:13		Piston		30	49° 40.1414	126° 10.3506	349						40' 20070002 PGCSTN17
25		21:55		Piston		31	49° 39.7206	126° 12.3109	194						40' 20070002 PGCSTN18
26	MUC4	0507	BE	ROS		32	49° 38.503	126° 20.684	292		50-59	10		✓	5 mab
		0517	BO				49° 38.508	126° 20.695		285					
		0531	EN				49° 38.490	126° 20.692							

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May 26

0507 UTC - Remote readout for CTD displaying nonsense characters.
- Checked cable connections between Cast # 32 & 33
- Still not working correctly

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Month				Year			Ship		Vessel		Cruise ID				
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							
26	Muc5	619	BE	ROS	US	33	49 39.001	126 28.474	182			8			Sounding not clear Sidelobe?
		625	BO						or 217	185	60-67				~10 mab
		0637	EN				49 39.013	126 28.487							
26	Muc6	0726	BE	ROS	US	34	49 35.806	126 35.686	118		68-74	7			3 mab
		0730	BO				49 35.804	126 35.687		113					
		0737	EN				49 35.786	126 35.678							
26	MUC4	1509		X Hunter		35	49.38.26	126°20.684	290						81 Hunter
		1920					49.39.266	126°22.895							50L/50L
26		20:30		Piston		36	49.39.573	126°23.536	154						40' Piston Core
		22:13		Core		37	49.39.540	126°23.5494	169						3m Core
26		23:32		Piston		38	49.39.5086	126°23.5580	175						40' Piston Core

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260m Kuntoc survey MUC4 → West to Williamson Passage and
Zucicarka Channel = EOL 49° 36.2' 73

126° 31.1092 W.

26 overnight - multi-beam survey MUC4 → W. to Williamson Passage
and Zucicarka Channel

Freeze core: 3.5 blocks dig (sublimated)
- 1 plate into first barrel - NO ICE FIRST.
- plus lead weights.
- 2 lengths on.