

DAILY LOG BOOK

MISSION
NUMBER

DFO # 2007-58

NRCAN # 2007007 P6C

DATE:

From: Nov. 5, 2007 to: Nov. 15, 2007

VESSEL:

CCGS Vector

PROJECT:

Paleoclimate / paleoceanographic research.

Knight Inlet, Golias Channel, Drancy Inlet,
Stymou - Belize Inlet
complex.

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year			Ship				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
UTC							Latitude	Longitude							
309		1534													Depart midnight for Oregon Strait
310	GURDAMP	1527	UTC				49°00.5504	123°14.6739	124						No core recovered
310	GURD16	1614	UTC				49°01.6052	123°20.2367	210m						
310	GURD19	1657	UTC				49°01.1211	123°23.1016	255						
310	GURD17	2145	UTC				49°24.5431	124°02.0428	410						
311	ENGLA	1815	UTC	3.5 kHz			51°01.6028	125°33.4603							35 SOL001 3.5 kHz survey
311	ENGLA	1831	UTC	3.5 kHz			51°01.1322	125°33.5851							35 SOL001 piston core
311		1849	UTC	piston			51°01.0682	125°33.5731	2810m						STN001 - 20' core
311		1957	UTC	3.5 kHz			51°01.2458	125°33.2051							35 SOL002
311		2023	UTC	3.5 kHz			51°02.1183	125°33.0289							35 SOL002
311		2202	UTC	Heurtec			51°01.6853	125°33.6800							DT5003 SOL
311		2211	UTC	Heurtec			51°01.9514	125°32.7898							DT5003 SOL
311		2246	UTC	Piston			51°01.9119	125°32.9546	288.0						STN002 - No core
311		2356	UTC	Piston			50°57.7018	125°32.7712	3520m						STN003 - 20' core
312		0112	UTC	Heurtec			51°04.1041	125°37.2989							DT5004 SOL
312		0422	UTC	Heurtec			50°52.5260	125°37.8764							DT5004 SOL
312	Galeas	1604	UTC	Heurtec			50°46.1362	127°24.8821							SOL005 Galeas channel
312	channel	1702	UTC	Heurtec			50°48.2431	127°34.2864							SOL005 STRAIT

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(see STN B)

GVRD-AMP = This was the initial station for GVRD16 BUT could not recover a core - likely too sandy for Pederson corers & moved to other location.

GVRD 16 - core was short ~25cm but kept/sampled. The idea was to move north to another station BUT there was a good chance we already had spatial coverage - is named this as GVRD-19 in case post-cruise we decide not to analyze it - we can drop it without affecting the core # sequence → GVRD 19 - also ~~short~~ - 20 cm.

These 2 cores would likely have been ok w/ weight.

GVRD 17 - 2 initial tries = seriously over penetrating - barrel too short for sediment and vacuum can't hold against sediments. On third try - added the 1m barrel + the delimited to reduce over penetration - very successful with 58cm core.

for all core descriptions for this project see S. Johannessen - 105 Re: GVRD Ambient Monitoring Program.

Depart Maya Strait sampling area for night shift.

Piston core STN002 did not recover sediment. Channel floor, sediment is coarse well-sorted grey sand → compacted. Piston, gravity corer did not penetrate.

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3/2	Gorras	2025		Hunter			50°53.3481	127°53.7905							EOLOO5
3/2	Channel	2021		Hunter			50°53.3481	127°53.7905							SOLOO6
3/2	1	2056		"			50°52.7270	127°53.1809							EOLOO6
3/2		2152		Piston			50°52.9293	127°55.9985							STN004 Piston core
3/2		2255		Piston			50°53.2849	127°55.7578							STN005 Piston core
3/3	Seymour	2305		Hunter			51°04.9448	127°27.5139							SOLOO7 Hunter
3/3	"	2331		Airgun			51°03.8042	127°24.4017							SOLOO7 Air gun
3/4	"	0002		Airgun			51°02.5115	127°21.2399							EOLOO7 Airgun
3/4	Seymour	0614		Hunter			51°10.8090	126°39.5556							EOLOO7
3/4	Eudorid	1636		Hunter			51°03.6823	126°44.5233							SOLOO8 Hunter
3/4	"	1650		Airgun			51°02.6679	126°43.6489							SOLOO8 Air gun
3/4	"	1726		Hunter			51°00.1091	126°42.2045							EOLOO8 Hunter
3/4	"	1855		Airgun			51°01.6891	126°42.9696							Free core STN006
3/4	"	2137		Piston			51°02.0139	126°43.1320							50' CORE Piston core STN007
3/4	FRS3			ROS			50°59.915	126°43.691	62		1-6	6			CTD
		2313								58					2.6mab
		2320													
3/4	FRS2	2341	BE	ROS			51°00.535	126°42.211	214						
		2349	BO				0.536	42.226		207					2.5mab

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Called DFO Port Hardy Conservation Office 9¹⁵ a.m. to advise
start of air gun survey covered by Rev. 5 MHA of agreement.
As survey progressed, gale force winds curtailed the full
survey.

2 piston cores taken in 45 knot winds and chop.
into stiff sand.

Ribot cores empty on both attempts. Lower barrel bent
on 2nd stroke.

Vessel proceeds to Bate Passage to ride out gale.

Entered through Stingby Channel to Seymour Beliz and complex
14:30 PST.

Surfnet grid = 18.5 m.

Air gun run until darkness.

Heute survey down Seymour inlet. Sheat down for the night.

Entered to Friedrich Sound 8:15 a.m.

Start heute, then air gun after area clear of marine mammals.

50' site: 51° 02.0166

126° 43.1406

Engl cou: 51° 01.6921

126° 42.8511

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Nov</i>				Year <i>2007</i>			Ship <i>Vector</i>				Cruise ID <i>2007-58</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>11</i>	<i>FR52</i>	<i>0003</i>	<i>EN</i>	<i>ROS</i>		<i>002</i>	<i>51° 0.540</i>	<i>126° 42.223</i>			<i>7-18</i>	<i>12</i>			<i>at least</i> <i>Bottom 4 Bottles H₂S</i>
<i>11</i>	<i>FR51</i>	<i>0026</i>	<i>BE</i>	<i>ROS</i>		<i>003</i>	<i>51</i>		<i>246</i>		<i>19-32</i>	<i>14</i>			<i>Trans min @ ~90m</i>
			<i>BO</i>							<i>238</i>					<i>3 mab</i>
		<i>0053</i>	<i>EN</i>				<i>51.2.226</i>	<i>126° 42.991</i>							<i>anoxic below 90m</i>
<i>11</i>	<i>FR50</i>	<i>0113</i>	<i>BE</i>	<i>ROS</i>		<i>004</i>	<i>513-809</i>	<i>126° 44.599</i>	<i>160</i>		<i>33-42</i>	<i>10</i>		<i>Bottom</i>	<i>at least 7 bottles H₂S</i>
		<i>0119</i>	<i>BO</i>							<i>155</i>					<i>1.5 mab</i>
		<i>0129</i>	<i>EN</i>				<i>51 3.814</i>	<i>126° 44.614</i>							
<i>11</i>	<i>SE06</i>	<i>1305</i>	<i>BE</i>	<i>ROS</i>		<i>005</i>	<i>514.291</i>	<i>126 52.412</i>	<i>542</i>		<i>43-60</i>	<i>18</i>			<i>5 mab</i>
		<i>1319</i>	<i>BO</i>				<i>51 4.283</i>	<i>126 52.460</i>		<i>532</i>					<i>midwater DO minimum</i>
		<i>1342</i>	<i>EN</i>				<i>51 4.289</i>	<i>126 52.543</i>							
<i>11</i>	<i>SE04</i>	<i>1440</i>	<i>BE</i>	<i>ROS</i>		<i>006</i>	<i>51 3.138</i>	<i>127 8.058</i>	<i>548</i>						
		<i>1455</i>	<i>BO</i>				<i>51 3.157</i>	<i>127 8.090</i>		<i>540</i>	<i>61-78</i>				<i>5 mab</i>
		<i>1515</i>	<i>EN</i>				<i>51 3.121</i>	<i>127 8.093</i>							
<i>11</i>	<i>SE02</i>	<i>1711</i>	<i>BE</i>	<i>CTD</i>		<i>007</i>	<i>51 3.503</i>	<i>127 23.536</i>	<i>97</i>			<i>φ</i>			<i>3 mab</i>
		<i>1713</i>	<i>BO</i>				<i>3.499</i>	<i>23.544</i>		<i>90</i>					
		<i>1715</i>	<i>EN</i>				<i>3.496</i>	<i>23.548</i>							
<i>11</i>	<i>NSφ</i>	<i>1752</i>	<i>BE</i>	<i>ROS</i>		<i>008</i>	<i>51 5.531</i>	<i>127 28.566</i>	<i>84</i>		<i>79-85</i>	<i>7</i>			
		<i>1755</i>	<i>BO</i>							<i>79</i>					<i>3.5 mab</i>
		<i>1800</i>	<i>EN</i>				<i>51 5.530</i>	<i>127 28.579</i>							

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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							
11	BE01	1831		ROS		009	51°7.697	127°34.286	228		86-97	12			5 mab
		1836					7.685	34.290		220					File incorrectly seqs
		1847					51°7.697	127°34.283							BE02
11	BE02	1918	BE	ROS		010	51°7.886	127°30.556	195		98-108	11			3 mab
		1923	BO				51°7.890	127°30.535		190					
		1935	EN				51°7.886	127°30.490							
13	BE03	0138	BE	ROS		011	51°7.844	127°22.186	289		109-121	13			5 mab
		0146	BO				51°7.849	127°22.186		276					
		0200	EN				51°7.861	127°22.188							
13	BE04	0241	BE	ROS		012	51°7.772	127°15.281	378		122-136	15			towed around at surface alt
		0252	BO				51°7.808	127°15.274		372					5 mab
		0310	EN				51°7.795	127°15.320							
13	BE05	0347	BE	ROS		013	51°7.200	127°8.796	282		137-149	13			
							51°7.210	127°8.803		274					5 mab
		0412	EN				51°7.200	127°8.806							
13	BE06	0443	BE	ROS		014	51°6.560	127°2.146	334		150-163	14			Mid Water oxy min ~1 mwp
		0452	BO				51°6.559	127°2.141		325					4.5 mab
			EN				51°6.564	127°2.141							Pressure = -0.9 on deck
		0636					51°06.344	126°55.838							BE02/3

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Nov. 12.

Nov. 11; ship's refrigeration system breaks down at
4 a.m. Ship exits Foully Sound and transits
through Nakwakto at 4³⁰ p.m. bound for Port Hardy.

Nov 11-12 - overnight Port Hardy camp
- cross the Sound to enter Nakwakto at
7 p.m. with Regen Hydro stations at BE03.

Nov. 13 - Leave Nakwakto bound for Renaimo survey at
4³⁰ p.m.

