

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2008-28

DATE:

From:

March 31, 2008

to:

April 8, 2008

VESSEL:

Vector

PROJECT(S):

Paleoceanography

Dallimore/
Thomson

PGC Cruise # 2008003 PGS

Water Properties Group
Fisheries and Oceans Canada
Institute of Ocean Sciences
Ocean Sciences Division
Sidney, BC, Canada

WaterProperties.ca

Captain: Stew Aldridge First Officer: _____
Second Officer: _____ Third Officer: _____
Fishing Master: _____

Mission Participants / Agencies: PGC/IOS/Royal Roads University

Scientific Personnel:		Chief Scientist:	
Name	Watch	Cabin	Name
Audrey Dallimore			Audrey Dallimore
David Spear			
Peter Neeland			
Randy Fentin			
Byron Mallow			
Graham Standen			
Bob Murphy			
Judith Baker			

Second leg of Mission:		Chief Scientist:	
Name	Watch	Cabin	Name

Data logging computer: _____

Data acquisition program: _____
CTD deck unit make: SBE model: 11 serial number: 0424

Primary CTD

Make: SBE 911 model: 911 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: _____ P, S or NO pump?

Oxygen sensor: _____ Model: _____ 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: _____

Primary temperature serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: _____ P, S or NO pump?

Oxygen sensor: _____ Model: _____ 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?

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

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>April</u>		Year <u>2008</u>		Ship <u>Vectra</u>		Cruise ID									
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
2		0000													
2	ROC STN01	01:14		Long freeze core		1	48°36.7703 ^N	123°30.0999 ^W	217						Long freeze core 2008003 - STN01
2	ROC STN02	02:47		20' piston core		2	48°36.7642 ^N	123°30.1021 ^W	217						20' piston core STN02
3	ITSOL SOL	20:31		Humtec.		3	51°05.4979 ^N	127°27.4951 ^W	49					SOL	Nugent Sound Humtec Survey
	DTS-01 FOL	2237				4	51°05.3550 ^N	127°23.3293 ^W	90		⊗				FOL
3	STN 3	2335		Piston		5	51°05.3350 ^N	127°20.8761 ^W	100						80' - NUGENT - STN03 Piston on bottom
3	NS3	0120	BE	ROS		6	51°5.245	127°13.798	130		1-8	8		✓	
		0127	BO							123					5 mab
		0135	EN				51°5.246	127°13.787							
3	NS2	0211	BE	ROS		7	51°5.330	127°20.876	109		9-15	7		✓	
		0215	BO				51°5.333	127°20.875		101					4.5 mab
		0221	EN				51°5.334	127°20.876							
3	NS1	0252	BE	ROS		8	51°5.458	127°25.815	69		16-21	6			6.4 mab
		0256	BO				51°5.455	127°25.814		63					
		0301	EN												1.13 mab offset
3	NS0	0322	BE	ROS		9	51°5.519	127°28.598	86		22-27	6		✓	3.5 mab
		0327	BO				51°5.510	127°28.594		82					
		0331	EN				51°5.512	127°28.585							

Cast Type:

BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set

USW = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter

Bottle Firing Method:

US = Up / Stop
UN = Up / No stop
DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast
BO = Bottom Time of Cast
EN = End Time of Cast
DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned before each cast, do not use Ammonia products

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 06 March 2008

Waway from dock UTC 0000
Riston and long freight taken in Saanich Inlet.

02417 UTC left Saanich Inlet for Seymour Narrows - 3pm April 1.
Day 93 (Wed. April 3)
2024 UTC - entered inlet complex quickly through Narrows at slack.

Turlec survey at 4.7 knots.

GPS down @ 21:25 UTC.

File/Recording
Parameters

Post 10

100

Month				Year		Ship		Vector		Cruise ID					
Apr.1				2008		Vector		2008-28							
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
3	BE1	0409	BE	ROS		10	51°7.685	127°34.278	226		78-39	12		✓	misfire bottle 7 again
		0416					7.673	127°34.290		221					3 mab
		0428	EN				51°7.656	127°34.367	Left logging between stations (big file)						1.2 db offset
3	BE3	0526	BE	ROS		11	51°7.853	127°22.165	289		5 mab				rinsed pylon with
		0535	BO				51°7.854	127°22.169		279	40-52	13			Freshwater
		0549	EN				51°7.850	127°22.175							
3	BE5	0646	BE	ROS		12	51°7.205	127°08.788	282			13			
		0653	BO				51°7.212	127°08.821		275	53-65				5 mab
		0706	EN				51°7.218	127°08.794							bottle 13 misfire
3	ALS1	1455	BE	ROS		13	51°10.118	127°05.848	154		66-75	10			Low DO but not 0?
		1459	BO				10.118	5°08.40		149					3 mab
		1509	EN				51°10.117	127°05.828							
3	ALS2	1529	BE	ROS		14	51°10.196	127°02.474	108		76-83	8			1.5 mab
		1533	BO				51°10.195	127°02.475		105					
		1541	EN				51°10.199	127°02.483							Bottle 7 misfire (not pylon)
3	ALS3	1624	BE	ROS		15	51°10.001	126°56.813	136		84-92	9			Very low DO 0?
		1629	BO				51°10.001	126°56.818		132					2 mab
		1639	EN				51°10.002	126°56.824							1.2 db offset
															Bottom 4 bottles H ₂ S

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Month <u>April</u>				Year <u>2008</u>				Ship <u>Vector</u>				Cruise ID			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
3	ALS4	1655	BE	ROS		16	51°10.838	126°55.452	74		93-98	6			Anoxic
		1658	Bo				51°10.850	126°55.451		70					3 mab
		1703	EN				51°10.877	126°55.447							
3	DT503 ⁵ Sol	A47		Aurora		17	51°10.5 ^N	126°55.544 ^W	83						Heurlec SOL
	DT503 ⁵ EOL	1915		Xyloc			51°10.15 ^N	127°05.373 ^W	155.0						Xyloc SOL
4	STN04	2010		Piston		18	51°09.917 ^N	126°57.046 ^W	140.0						Xyloc Sound 501
4	STN05	2222		Freeze Core		19	51°09.919 ^N	126°57.051 ^W	140.0						Piston core STN04
4	STN06	2326		Freeze Core		20	51°09.917 ^N	126°56.887 ^W	137.5						Alison Sound Freeze Core
5	DT504 ⁵ Sol	19:42		Xyloc		21	51°12.155 ^N	127°15.220 ^W	90.0						Alison Sound Freeze Core
5	DT504 ⁵ EOL	2028		Xyloc			51°11.826 ^N	127°20.592 ^W	166.0						Heurlec core 04
6	SM5A	1410	BE	ROS		22	51°21.101	127°4.015	65					✓	Heurlec of McMurdo
		1414	Bo				51°21.101	127°4.025		62	99-104	6			For Reel Island
		1419	EW				51°21.103	127°4.022							
6	SM4	1447	BE	ROS		23	51°21.515	127°9.090	190		105-114	10		✓	Anoxic below 100m
		1502	EW				51°21.502	127°9.132		185					3.5 mab
6	SM3	1542	BE	ROS		24	51°18.502	127°14.615	329		115-127	13		✓	
		1549	Bo				51°18.491	127°14.632		321					5 mab

50' piston core - Mission Sound ~ ANO3 - Rightly above bottom waters.
51° 09.9174 3 / 26° 57.0574.

- excellent smooth penetration and recovery → 2 track post boom held.
- core loosened and left to mud gas for 1 hour.

Evening Thursday April 3, anchored in Mission Sound.

Leave Mission Sound for Herewith Sound at slack tide 10 a.m.
Friday April 4.

Start survey bunkers in Herewith Sound.

Leave Herewith Sound for Nakwoko Slack at 0315 PST,
Proceed to Smith Spit
Anchored for the night at the entrance to Smith.

Smith Sound work.

Inter survey, piston and freeze coring.

Shore work

a.m. April 5 To unnamed lake in Aholakerho Channel.

- Randy, David, Byron.

- p.m. April 6. - "

- Randy, David, Byron, Audrey.

Depart Smith Sound for TAS 0500 PST April 6.

This page is for any notes or observations