

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2010-16

DATE:

From: April 3, 2010 to: April 6 2010

VESSEL:

VECTOR

PROJECT(S):

SOG MOORINGS / AMP ERI

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

WaterProperties.ca

Captain: _____

Second Officer: _____

Fishing Master: _____

First Officer: _____

Third Officer: _____

Mission Participants / Agencies:

[illegible][illegible]

Data logging computer:

Data acquisition program: Seasave
CTD deck unit make: Seabird model: _____ serial number: _____

Primary CTD

Make: SBE model: 9 serial number: _____

Primary temperature serial number: 4883

Primary conductivity serial number: 1763

Secondary temperature serial number: 2093

Secondary conductivity serial number: 2754

Transmissometer: WetLab Model: WetLab

Fluorometer: Model	Sea point	Cable gain:

Oxygen sensor: SB6 : SB6 Model: SB6

PAR sensor: Biophysical Model: Model

Other sensors: altimeter

Other sensors: DH

Other sensors:

Other sensors:

~~Secondary CTD~~

Make: 886 model: _____ serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number:

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____

Fluorometer: Model	Cable gain: model

Oxygen sensor: _____ Cable gain: _____
Model: _____

PAR sensor: _____ Model: _____

Other sensors: _____

Other sensors:

Other sensors:

Other sensors:

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

Rosette Setup:

Number of bottles: 24
Manufacturer: _____
Volume of bottles (litres): 10L each

Winches:

1. Make: _____ Model: _____ Serial #: _____ Used for: _____
2. Make: _____ Model: _____ Serial #: _____ Used for: _____
3. Make: _____ Model: _____ Serial #: _____ Used for: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

Salinometer:

Make: N/A Model: _____ Serial Number: _____
Comments on performance during cruise (comments should also be reflected in the post-cruise report):

Oxygen Kit(s):

Make: N/A Model: _____ Kit Number: _____
Make: _____ Model: _____ Kit Number: _____
Comments on performance during cruise (comments should also be reflected in the post-cruise report):

DO analyzed onshore Kit # 2

Thermosalinograph System (SBE21):

Program: N/A Version: _____
Sampling interval (seconds): _____
Fluorometer sensor serial number: _____
Comments on performance during cruise (comments should also be reflected in the post-cruise report):

ADCP Setup:

Computer time zone: N/A
User Exits: Name: _____ Exit points: _____
Sampling interval (sec): _____ Name: _____ Exit points: _____
Bin Length: (2^x): _____ Name: _____ Exit points: _____
Pulse Length: _____ Work File: _____
Buffer (bytes): _____
Gyro Offset: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

CTD Test Cast Information

Test Cast along side? Yes ☒ No ☐

Comments - no problems

Test Cast in Saanich Inlet or other location? Yes ☐ No ☒

Comments

CTD pressure reading on deck (db), before cast: _____ after cast: _____

Pumps working? Yes ☒ (0011) No ☐ (0010)

Secondary Temp – Primary Temp:
(Average from the mixed region) _____

Secondary Salinity – Primary Salinity:
(Average from the mixed region) _____

Additional Comments:

- seemed to be a leaky connection - spiky data - see log book

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>April</u>				Year <u>2010</u>			Ship <u>VECTOR</u>				Cruise ID <u>2010-16</u>				
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							
4	FR1	0245	BO	ROS	US	001	49 6.821	123 16.652	shallow	Surf	001	2	w/DS	✓	
	FR2	0311				002	49 6.802	123 18.025	11.5m	"	002			✓	- .3 surface pressure
	FR3	0330				003	49 6.3818	123 19.561	89	"	003			✓	
	FR4	0348				004	49 6.666	123 20.957	150.6	"	004			✓	See note on next page
	FR5	0410				005	49 7.056	123 22.381	183	"	005			✓	
	FR6	0434				006	49 7.374	123 23.783	210	"	006			✓	
	FR7	0458				007	49 8.034	123 26.196	282	"	007			✓	
	FR8	0517				008	49 8.695	123 28.592	321	"	008			✓	
	FR9	0537				009	49 9.324	123 30.918	349	"	009			✓	
	FR10	0558				010	49 9.90	123 32.872	373	"	010			✓	
5	SOGN	0007	BO	ROS	US	011	49°49.986'	124°51.802	330	200	011				
5	SOGN	0122	BE	ROS	US	012	49 49.925	124 52.172	336		012-023	1-3 mab			← water collection for Mary
		0130	BO				49 49.916	124 52.182		335					Wind came up quickly
		0152	EN				49 49.736	124 52.190							Bottle 23 looks
	SOGS	1423	BE	ROS		013	49	123	316		024-034				
		1433	BO				49 1.901	123 25.903		314					5 mab
		1453	EN				49	123							diffusive steps?

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

water chemistry - 2 bottles (#1; #2) fixed @ surface

BOT 1; DO
DIC/AIK.
HPLC
Chl
nuts

BOT 2; PH
TOC
DOC
CDOM
S180
Sal.

} Fraser River transect only.

Note: Deck unit fails to initiate communications with CTD periodically. Restarting logging appears to fix this.

Cast #11: On the way up, the numerous spikes occur in the data. Shut down CTD & brought it to the surface

Cast #12 - regreased main data cable.
- started spiking again - more spikes @ depth.
- got progressively worse throughout the cast

Cast #13 - cleaned and lubed sea cable wet end & slipping connectors prior to cast. no obvious problems
- cable tied sea-cable to CTD frame

SOGN-F Mooring Recovery April 4, 2010 PDT

On station 0700 PDT - get equipment ready, move rosette etc

0739 - Range B533 - 326 327 328

0745 - B533 - 385 396 402

0747 - B534 - Release - 420
- On Surface

0759 - Top recovered

0802 - traps

0801 - Sonda

0820 - ADCP

0826 - M Cat/RBR & Release

* Cover was left on RBR PH sensor For deployment

5095-F Mooring Recovery April 15, 2010 POT

- 0915 - On Station
- Range B537 645 646 ~~648~~ 607
- 0919 - Release B538 675 Received & executed
- 0920 - On Surface
- 0934 - Traps on deck & 19+
- 0945 - Sonde
- 0952 - RBR / Aquadopp & Release on deck

Chemicals for DO

Nina gave me $MgCl_2$, $NH_4I/NaOH$ & H_2SO_4
but no ID associated
MUKI: — (??)

KI standard; Batch # 09025640NN
normality; 0.011938N

May 22, 2009
Opened Feb 12, 2010
for 2010-D1

Thiosulphate

March 26, 2009b
March 31, 2009b