

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2011-76

DATE:

From: Nov 25, 2011 to: Nov 28 2011

VESSEL:

CCGS VECTOR

PROJECT(S):

SOG MOORINGS

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

WaterProperties.ca

Captain: Kent
 Second Officer: _____
 Fishing Master: _____
 First Officer: _____
 Third Officer: _____

Mission Participants / Agencies:

Scientific Personnel:

Name	Watch	Cabin
Robbie Macdonald		
Ginny Wright		
Lucius Perreault		
Jane Spear		
Glenn Cooper		
Mary O'Brien		

Second leg of Mission:

Chief Scientist:

[illegible]

Data logging computer:

10#

Data acquisition program: SEASAVE V7.21d

acquisition program: SEASAVE V7.21d

CTD deck unit make: SBE ~~11~~ model: 11+ serial number: 0425

Primary CTD

Make: SBE model: 9+ serial number: 0443

Primary temperature serial number: 2106

Primary conductivity serial number: 1764

Secondary temperature serial number: 2710

Secondary conductivity serial number: 2128

Transmissometer:	WETLABS	Model:		s/n:	1185DR	
Fluorometer:	ECO	Cable gain:	25	s/n:	2215	P, S or NO pump?
Oxygen sensor:	SBE	Model:	43	s/n:	0097	P, S or NO pump?
PAR sensor:		Model:		s/n:		

Other sensors:	pH	s/n:	0962	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: _____ s/n: _____
 Oxygen sensor: _____ Model: _____ s/n: _____
 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):

Rosette Setup:

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

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:

N/A

Make: _____

Model: _____

Serial Number: _____

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

Oxygen Kitt(s):

Make: _____

Model: _____

Kit Number: _____

Make: _____ Model: _____ Kit Number: _____

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

Thermosalinograph System (SBE21):

Program: _____

Version: _____

N/A

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: _____

Sampling interval (sec): _____

Bin Length: (2^x): _____

Pulse Length: _____

Buffer (bytes): _____

Gyro Offset: _____

User Exits: Name: _____

Name: _____

Name: _____

Work File: _____

Exit points: _____

Exit points: _____

Exit points: _____

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

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:

NISKIN#1

NISKIN#2

DO (not on FR)

TOC

CDOM

DOC

Sal

pH

DIC/AIK

NUT

SAL

Del 180

Standard Depths

FR 1-10

surface, duplicates @ FR3, FR6, FR10

SOGN, SOGS 0, 5, 10, 15, 25, 50, 75, 100, 150, 200, 250, BOT-5

Dups @ BOT-5

150m

0m

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>NOV</u>		Year <u>2011</u>		Ship <u>VECTOR</u>		Cruise ID <u>2011-76</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							
24	VECO1	2123	Bo	GRAB		001	49° 12.340	123° 18.270	104						Wind SE 35kt
	VECO2	2140	Bo	Grab		002	49° 12.504	123° 18.267	106						Slightly offshore
	VECO3	2154	Bo	Grab		003	49° 12.763	123° 18.307	108						
25	FR1	1733	Bo	ROS		004	49° 6.665	123° 17.112	9.6	2.5	001-002	2		✓	Sunny W ~10kt
	FR2	1745	Bo	ROS		005	49° 6.218	123° 18.047	9.6	2.6	003-004	2		✓	1m pressure offset
	FR3	1804	Bo	ROS		006	49° 6.385	123° 19.608	9.0	2.9	005-006	2		✓	Surface samples only
	FR4	1817	Bo	ROS		007	49° 6.682	123° 21.019	15.1	3.0	7-8	2		✓	+1.2m offset
	FR5	1830	Bo	ROS		008	49° 7.060	123° 22.420	18.2	3.0	9-10	2		✓	
	FR6	1846	Bo	ROS		009	49° 7.373	123° 23.826	20.8	3	11-12	2			
	FR7	1902	Bo	ROS		010	49° 7.837	123° 25.184	25.4	3	13-14	2			
	FR8	1923	Bo	ROS		011	49° 8.696	123° 28.643	32.2	2.9	15-16	2			
	FR9	2008	Bo	ROS		012	49° 9.331	123° 30.942	34.8	2.9	17-18	2			
	FR10	2031	Bo	ROS		013	49° 9.908	123° 32.885	37.2	2.8	19-20	2			
	SOGS-1			MOR		014			31.5						
	SOGS	2254	BE	ROS		015	49° 1.463	123° 25.838	31.6		No samples taken				98 B did not close
		2301	Bo							31.4					5 mab
		2321	EN				49° 1.436	123° 25.888							
									31.2		Changed Latch Assembly				

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: 16 April 2010

SOG 5-K Mooring Recovery

This page is for any notes or observations

0726 PST - On Station

0727 - Range 16B8 - 333, 334

0735 - Relocate 16B8 - 399 396
- 16B8 +

- Release 1655 396 - 397
0736 - On Surface

Received & Executed



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SOG N-K Mooring Recovery Nov, 26, 2011

1539 UTC On Station - Seas marginal gusting 35 kt.

Range 169C - 368 369 371 - mooring in place

Relocate at a safe distance

1545 - Range - 467 - 465 466

1546 - Release 169C + 1655 471, 474 Received & Executed

1548 - On surface

- quite tangled Kevlar damaged.

FOR BOTH SOGS = SOGN ALL water samples were taken from
ruskin # 16 (the paired depth of BOT # 15)

Other than bot 15 - last collection went well.
BOTTLE 17 SPIGOT was really hard to close up

DP2-A Mooring Recovery Nov 27, 2011

This page is for any notes or observations

1820 UTC - On station Strong current ~ 3.5 kt.

- drift over mooring

Send range codes - no response

16B7

~ 1825

- relocate and drift again

- pinger receiver - pingers heard (no sign of mooring on sounder)

- Arm codes sent 16B7 - no response

~ 1840 - Relocate & drift over again sending release commands 16B7 + 1655

- no response

- release command sent 8 times

1850 - Cease release operations & set up for dragging operations

1900-1920 - multiple passes over mooring location

- no sign on sounder

2015 - Commence drag #1 around the expected location

- 1300 m of wire out

2045 - start heaving in

- winch stalled - ship could not dislodge

- close circle - Circle $2\frac{1}{2}$ times as line is hauled in

1 cable radius

2150 - No success grapples back on board - bent & polished

DP2-A Recovery contd.

This page is for any notes or observations

- 2205 - new grapples - new plan
- lower grapples on mooring location and pay out 1800 m
 - numerous interactions with traffic and end up 6 cables off position
 - haulin wire in abbreviated drag - unsuccessful
- 2340 - depart Discovery Passage