

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2015-58

DATE:

From:

to:

VESSEL:

re Boot

PROJECT(S):

Discovery UV / CTD Survey

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

WaterProperties.ca

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>AUGUST</u>				Year <u>2015</u>			Ship <u>REBOOT</u>				Cruise ID <u>2015-58</u>					Page <u>1</u> of <u> </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									
10	Hobbs	11:14	BE	CTD	—	1	50° 06.375	124° 41.014			—	—	DT/BO	✓	UV calibration		
	↓	11:29	BO				50° 06.435	124° 49.205		10m					cast		
		11:36	EN				50° 06.460	124° 49.246									
10		11:41	BO	BOT	DN	2	50° 06.490	124° 49.220		Ø	1	1	DT/N2		Surface		
10		11:58	BO	BOT	DN	3	50° 06.452	124° 49.016		5M	2	1	↓		1.7L Niskin		
10	↓	12:09	BO	BOT	DN	4	50° 06.392	124° 48.913		10M	3	1	✓		on hand line		
10	Toba	13:19	BE	CTD	—	5	50° 19.317	124° 47.125			—			✓	UV cast		
		13:26	BO				50° 19.317	124° 47.125		10 m							
		13:34	EN				50° 19.376	124° 47.131									
12	Phillips 1	10:32	BE	CTD	—	6	50° 29.556	125° 21.555			—	—	DT/BO	✓	UV profile		
		10:47	BO				50° 29.581	125° 21.596		10m							
		10:53	EN				50° 29.618	125° 21.588									
12	Phillips 1	11:00	BO	BOT	DN	7	50° 29.725	125° 21.542		Ø	4	1	DT/BO		CDOM cast		
	✓	11:27	BO	BOT	DN	8	50° 29.655	125° 21.566		5	5	1	DT/N2		5m CDOM		
	✓	11:48	BO	BOT	DN	9	50° 29.635	125° 21.437		10	6	1			10m CDOM		
12	Phillips 2	12:46	BE	CTD	—	10	50° 31.226	125° 21.819		10	—	—	DT/BO	✓	UV profile		
	↓	12:57	BO				50° 31.425	125° 21.812							Phillips 2		
		13:04	EN				50° 31.532	125° 21.892									
12	↓	13:10	BO	BOT	DN	11	50° 31.629	125° 21.839		Ø	7	1			no levels		

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 & Fluorometer are to be cleaned before each cast

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 7 July 2014

2015-58 Discovery - Local Time

This page is for any notes or observations

- 0820 - Away Greene Pt - Martin Is, Horn Tray Ch

- 1040 arrival Martin Island, download weather station

- 1100 CTD on soaking at 2.5m

1105 - surface UV sensor Horn Tray Solar 575 UV: 3.5 Davis BSI 20150810_112534.csv

1120 CTD @ 5m depth 5.4m solar 513 UV: 3.0 @ 1127

1129 CTD @ 10m depth clouds rolled in on descent to 10m Solar 338 UV: 2.4 @ 1130

1130 CTD @ surface Solar 406 UV: 3.3 @ 1136

under casts CTD 3 casts surface 5.0m

1216 Away for Toba - slow while sampling

1309 Arrive @ Toba just off Widenest mostly overcast high cloud ~95% cloud cover

Solar 255 UV: 2.2 @ 1314 in air

1319 Solar 274 UV: 2.1 @ surface

1320 stop @ 5m Solar 302 UV: 2.3 @ 5m 1325

1326 stop @ 10m Solar 332 UV: 2.5 @ 10m 1330

AUG 11 - Weather station downloads - no CTD's

AUG 12 Del Rio 1105 surface UV CTD 1105 surface UV 561 UV: 2.7

1120 CTD @ 5m Solar 640 UV: 3.2 @ 1042

1035 CTD @ 5m Solar 640 UV: 3.2 @ 1042

1046 CTD @ 10m Davis station reading 1046 solar 640 UV: 3.2 @ 1042

blue sky no clouds

solar 640 UV: 3.2 @ 1042

1046

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Aug 12 2015

11am Start CDM Casts Phillips 1
150 Finish 10m cast move slow Phillips 2

12:46 CTD cast PHILLIPS 1 & 2 1m, vert - 2 - UV in air solar 775 UV 5.2 @ 12:46

12:48 CTD horizontal at surface pump intake 4" below

12:51 CTD - horizontal - back to water solar 775 UV 5.2 @ 12:51

12:55 CTD 2m solar 766 UV 5.2 @ 12:55

12:57 CTD stopped @ 10m solar 775 UV 5.2 @ 12:57

13:04 CTD surface solar 784 UV 5.2 @ 13:04

1310 - Surface CDM Phillips 2

1326 UV in air solar 735 UV 4.8

14:36 CTD line jumped block @ 3m Fiddle around to get it back in
may have dragged on bottom?

Phillips - Horizontal