

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2009 - 07

DATE:

From: 30/08/2009 to: /09/2009

VESSEL:

CCGS Sir Wilfrid Laurier

PROJECT(S):

C30 - Bellot Strait

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

WaterProperties.ca

Captain: Mark Taylor
 Second Officer: _____
 Fishing Master: _____
 First Officer: Simon Dockerill
 Third Officer: _____

Mission Participants / Agencies:

DF0 / CNS

Scientific Personnel:		Chief Scientist:	
Name		Watch	Cabin
/		Suein	Vag/r

		Watch	Cabin

[illegible][illegible]

Data logging computer:

Data acquisition program: _____
 CTD deck unit make: SSE model: 0200 serial number: 0800

Primary CTD
Make: Seabird
model: 9plus
serial number: 0941

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: _____ PS or ~~SS~~ pump? PS

Oxygen sensor: Seabird Model: 43 s/n: 1117 **(P)**S or NO pump? **(P)**

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:	s/n:	P, S or NO pump?

Oxygen sensor: _____
 Model: _____
 s/n: _____
 P S or NO pump? _____

On/Gen 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? _____

Other sensors: _____ s/n: _____ I, 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

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Month September			Year 2009			Ship SWL			Cruise ID 2007-07						
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	PRV-1	04:13	BE	ROS	US	002	71 55.105	93 35.144	122	119	002	1	SV/MD/KE	✓	Drift bottles 100
		04:16	BO				71 55.099	93 35.132							
		04:20	EN				71 55.090	93 35.150							
4	BEL9	1615	BE			003	71 57.444	94 16.055	85	83	003	1	SV/MD/KE		Drift bottle 102
		1618	BO				71 57.443	94 16.064							103 & 105
		1621	EN				71 57.442	94 16.064							
	BEL8	1943	BE			004	71 57.807	94 25.040	98	86	004				104 & 106
		1945	BO				831	092							
		1948	EN				861	138							
5	Bel7	0157				005	72 0.155	94 29.933	26	21	—				107 & 108 Drift
		159					72 0.127	94 29.458							Bo Hlos.
		55					0.110	94 29.184							
	Bel6	0248				006	72 0.481	94 35.984	150	80	—				
		73					0.390	35.686							

ship's shipper reads ~ 5m deep!

6kts of current to E in Narrows!

Pair start 0.04
end 0.08

- drifting towards Maggie rock

- boiling!

start scan 9000.

- NO SAL taken.

start scan 5600

pair start 0.22
0.08

current running at 2.5kts

- terminated by bridge.

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Page 3 of

DAILY SCIENCE LOG

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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							
5	Bel-b	0317	BE	ROS	VS	007	72 0.504	94 36.708	170	136	005	1	SV/MD		
		20	BO				72 0.440	94 35.901							
		24	EN				72 0.380	94 35.276							
	Bel			ROS		008									
5	BEL-5	0403	DE	ROS	VS	008	72 0.338	94 41.336	81	76	006	1	SV/MD/RF		2nd 604/051 107 E110
		0906	BO				72 0.364	94 41.058							
		0910	EN				0.385	40.806							
5	BEL-4	0510	DE	ROS	VS	009	71 59.234	94 50.884	286	284	007	1	SV/MD/RF		
		0516					71 59.250	94 50.695							
		0523					71 59.251	94 50.678							
5	BEL-2	1324	BE	ROS	VS	010	71 57.944	95 13.040	125	119	008	1	SV/MD/RF		DL 111 E112
		28	BO				544	95 12.941							
		32	EN				557	95 12.824							

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

Cast Type:

BOT = Bottle cast, no CTD
CTD = CTD without Rosette

USW = Sea Water Loop

MOR = Mooring

NET = Plankton Net Haul

Bottle Firing Method:

US = Up / Stop

UN = Up / No stop

DN = Down / No stop

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 06 March 2008

shoaling rapidly to 140m. station drifting at 2 knots
start scan 4000 pair end 0.03

Pair start 0.07 start scan 3500
end 0.02 depth increasing rapidly over sill

Pair 0.04 start start scan 2100 Repenter From 300m
0.04 end — MD forgot to log

Salinity inversion ~ 35-40 on downcast
real? Winch was a little fast (1.3 ms⁻¹) at the time