

CRUISE
NUMBER

9745

DAILY LOG
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

1 - 4 DEC . 1997

VESSEL

SIR WILFRID LAURIER

PROJECT

EL NIÑO WATCH

Captain: $S_{\alpha\beta}$ $\omega_{\epsilon\delta\delta}$ First Officer: _____
Second Officer: _____ Third Officer: _____

Second Officer: _____

Third Officer: _____

Cruise Participants / Agencies: _____

Scientific Personnel: MARIE ROBERT

[illegible]

Second leg of cruise: _____ Party Chief: _____

[illegible]

Data logging system: _____ Unit no.: _____

Program Name: _____
Program version: _____

CTD deck unit make: _____ model: _____ serial no.: _____

Computer make: _____ model: _____ serial no.: _____

1st CTD make: Serbird model: 9 plus serial no.: 0437

Temperature sensor
model: _____
serial no.: 2106

coefficients: slope: _____ offset: _____

Conductivity sensor
model: _____ serial no.: 1748

coefficients: slope: _____ offset: _____

Pressure sensor range: _____ psi serial no.: _____

coefficients: FSP: _____ dB offset: _____

Transmissometer
model: _____ serial no.: 192D

coefficients: slope: _____ offset: _____

Comments: Secondary Temp 2062

1000

100

D: \ P62 \ 9745 \ 97450001.dat

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YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1997			DECEMBER			SIR WILFRID LAURIER			9745			1		4	
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
1	P1	BONGO	22 ²⁷ 30	BE	1	48° 34.54	125° 30.12					2		Bongo net	
				EN											
1	P1	CTD	2305	BE	2	48° 34.55	125° 30.05	✓	114	99.22	—			First CTD	
1	P1	CTD		EN	2	48°	125°							no lat/long	
2	P2	CTD	0044	BE	3	48° 36.080	126° 00.010	✓	112					no lat/long	
2	P2	CTD	0045	EN	3	48° 36.089	126° 00.021			104					
2	P3	CTD	0154	BE	4	48° 37.624	126° 19.766	✓	820?					~ 1.3 diff in sal. no lat/long	
2	P3	CTD	0203	BO	4	48° 37.682	126° 19.934			805					
2	P3	CTD	0210	EN	4	48° 37.720	126° 20.076								
2	P3	BONGO	0225	BONGO	5	48° 37.554	126° 19.998			150		1		Salinity sample	
2	P3	BONGO	0237	BONGO	5	48° 37.545	126° 20.275								
2	P4	CTD	0345	BE	6	48° 39.062	126° 39.812	✓	1300?					Back up to zip drive	
2	P4	CTD	0359	BO	6	48° 39.054	126° 39.914			1009				no lat/long	
2	P4	CTD	0409	EN	6	48° 39.060	126° 40.113								

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW -

sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

1 Dec

When we got on board we were 2 hours from the first station. After a quick lunch we discovered that everything was far from being ready. The on the side of the bench were not installed, the longos were not ready. After some time sitting on station we did the first longo cast then the CTD. Everything went okay except for a weird setting of the CTD.

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DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
2	PS	CTD	0614	BE	7	48° 41.694	127° 19.795	✓	2100?					no lat/long
2	PS	CTD	0624	BO	7	48° 41.685	127° 20.045			1005				
2	PS	CTD	0635	EN	7	48° 41.685	127° 20.218							
2	PS	BONGO	0650	BO	8	48° 41.688	127° 20.090			150		142		Last cast of Monkey
2	PS	BONGO	0658	EN	8	48° 41.791	127° 20.288					Salinity sample		Sail to P12. Top of bottle not well closed b.o. messenger. But water well mixed @ surface
TUESDAY														
2	P12	CTD	1632	BE	9	48° 58.327	130° 39.838	✓	3200?					There is still a big difference between both
2	P12	CTD	1644	BO	9	48° 58.380	130° 40.094			1006				Salinities T both the same Surface T: 11.0°C
2	P12	CTD	1654	EN	9	48° 58.410	130° 40.139							no lat/long
2	P11	CTD	1839	BE	10	48° 56.012	130° 09.796	✓	2700?					no lat/long
2	P11	CTD	1854	BO	10	48° 55.985	130° 10.096			1008				
2	P11	CTD	1904	EN	10	48° 56.025	130° 10.236							

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Station P11 On way up, when Niskin bottle at surface, the winch broke.

The wire got off the drum, got jammed, too much tension on hydraulics.

They "rescued" the barges + NB by hand. The Niskin got broken.

Station P9: The hydro winch almost didn't make it on the way up. They had to turn it off and on, off and on, to finally bring nets and Niskin bottle on board. So I decided to cancel the last net tow. A+1's too risky.

Station P8 Just as we are ready to deploy at ~ 1930, Captain Webb calls me and Jamie, the 3rd mate, up to the bridge. It is too windy and getting too late. He decides to stop for today, sit at P8 during the night, and do the last 3 stations tomorrow. The weather is supposed to improve, and it will be day time.

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DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
2	P11	BONGO	1918	BE	11	48° 56.180	130° 10.050							+ salinity	
2	P11	BONGO	1922	BO	11	48° 56.162	130° 10.067			155		K+2		2 zoop	
2	P11	BONGO	1930	EN	11	48° 56.336	130° 10.365							WINGH BREAKS. ↙	
2	P10	CTD	2137	BE	12	48° 53.532	129° 39.727	✓	2660??						
2	P10	CTD	2152	BO	12	48° 53.535	129° 39.963			1005					
2	P10	CTD	2201	EN	12	48° 53.551	129° 40.187								
3	P9	CTD	0016	BE	13	48° 51.430	129° 09.821	✓	2340??						
3	P9	CTD	0031	BO	13	48° 51.460	129° 10.133			1005					
3	P9	CTD	0042	EN	13	48° 51.429	129° 10.336								
3	P9	BONGO	0046	BE	14	48° 51.503	129° 10.463		2340??					Salinity sample	
3	P9	BONGO	0052	BO	14	48° 51.554	129° 10.575			160		1+2			
3	P9	BONGO	0109	EN	14	48° 51.625	129° 10.922								
														END OF TUESDAY	
														BACKUP DATA TO ZIP	

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sea water loop

TIME CODE -

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BO -
EN -beginning time of cast
bottom time of cast
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Wednesday

Station P8: Even the CTD which scares me a bit...

I just realised that lat + long are not written in the header. Maybe I had to correct the wire in OUT 2 instead of OUT 1. But since I write all the positions it oh

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3	P8	CTD	1550	BE	15	48° 48.956	128° 40.004	✓	2440??					WEDNESDAY			
3	P8	CTD	1607	BO	15	48° 49.042	128° 40.220			1007							
3	P8	CTD	1621	EN	15	48° 48.983	128° 40.268										
3	P7	CTD	1832	BE	16	48° 46.633	128° 10.051	✓	2450??					CTD only			
3	P7	CTD	1848	BO	16	48° 46.613	128° 10.218			1005							
3	P7	CTD	1900	EN	16	48° 46.596	128° 10.354										
3	P6	CTD	2108	BE	17	48° 44.582	127° 39.590	✓	2500??					LAST CTD!			
3	P6	CTD	2123	BO	17	48° 44.616	127° 39.810			1010							
3	P6	CTD	2133	EN	17	48° 44.654	127° 40.059										

CAST TYPE -
BOT - bottle cast
CTD - ctd
MOR - mooring

ROS - rosette
NET - net haul
DRF - drifter

USW - sea water loop

TIME CODE -
BE - beginning time of cast
BO - bottom time of cast
EN - end of cast

DE - deployment time
MR - messenger release
RE - recover mooring

POSITION CODE -
RAD - RADAR
GPS - GLOBAL
LOR - LORAN