

DAILY LOG BOOK

MISSION
NUMBER

2005-02

DATE:

From: FEB 28

to: MAR 05

VESSEL:

TULLY

PROJECT:

INSTITUTE OF OCEAN SCIENCES
OCEAN SCIENCES AND PRODUCTIVITY DIVISION
SIDNEY, BC, CANADA

Captain: Bill Noon First Officer: Kent Reid
Second Officer: Shane Loveless Third Officer: Zibby Chmura

Mission Participants / Agencies: IOS

Scientific Personnel:

Party Chief: Anaelica Pena

Name	Watch	Cabin	Name	Watch	Cabin
Jane Eert	8-12	G			
Shela Troews	12-4	B			
Doug Anderson	4-8	D			
Darren Tuele	8-12	H			
Doug Moore	12-4	E			
Mahta Galbraith	4-8	C			
Melanie Quenneville	12-4	H			
Valerie Forsland	4-8	F			
Jeri Butcher	8-12	F			
Ellen Battle	12-4	G			

Second leg of Mission:

Party Chief:

[illegible]

Data logging computer: FS03 - Shuttle Case

Data acquisition program: Seasave Win32 Version 5.32

CTD deck unit make: SeaBird model: 11plus serial number: 0508

Primary CTD

Make: Seabird model: 911 plus serial number: 0443

Primary temperature serial number: 2668 (18-Nov-04)

Primary conductivity serial number: 2399 (19-Nov-04)

Secondary temperature serial number: 2106 (18-NOV-04)

Secondary conductivity serial number: 1763 (19-140V-041)

Transmissometer: Wetlabs Model: C.STAR s/n: 333 DR (29-Nov-04)

Fluorometer: Model Seagoint Cable gain: 10X s/n: 2229 **P** S or NO pump? P

Oxygen sensor: Seabird Model: SBE 43 s/n: 0766 P ☒ S ☐ For NO pump? ☐

PAR sensor: Biospherical Instrument Model: QSD-200L s/n: 4656

Other sensors: Benthos Altimeter s/n: 1024 4626 P, S or NO pump?

Other sensors: 9 Plus Pressure Sensor / 10000 PSI
s/n: 63507
P, S or NO pump? P, S or NO pump?

Other sensors: (25-Oct-04) offset: 3.0157 (dPars) s/n: 63004 P, S or NO pump? P, S or NO pump?

Other sensors: Pressure Reference PIR s/n: 165 P, S or NO pump?

Secondary CTD

Make: Seabird model: 911plus serial number: 05K0

Primary temperature serial number: 2023 (11-Oct-2023)

Primary conductivity serial number: 1766 (15-Cc4-CH)

Secondary temperature serial number: 2 449 (16-Oct-01)Secondary conductivity serial number: 2102 (1F Oct-04)

Transmissometer: Wetlabs Model: CSTAR s/n: 723 DR (10-Nov-04)

Fluorometer: Model Seagoint Cable gain: 10X s/n: 235/- **P** S or NO pump? P

Oxygen sensor: _____
 Model: _____ s/n: _____
 Serial Number: _____ P, S or NO pump? _____
 Date Rec'd: _____

PAR sensor: _____
Model: _____
s/n: _____

Other sensors: 9 plus Pressure Sensor / 10000 psi s/n: 75636 P, S or NO pump?

Other sensors:

(04-June-1999) effect: 0.0/dB/s/n:
effect: 0.0/dB/s/n:
P, S or NO pump?
P, S or NO pump?

Other sensors:

S/n: _____

P. S or NO pump? _____

Other sensors: _____ s/n: _____

I, S or NO pump? _____

P, S or NO pump? _____

Secondary Deck Unit: 0425	CTD calibration bottle location (height above CTD in metres):	1.5
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Back-up Data acquisition computer - ESCI

Back-up Data acquisition computer - Eco

Rosette Setup:
 Number of bottles: 24
 Manufacturer: General Oceanics (Ocean Test Equip., General Oceanics, IOS)
 Volume of bottles (litres):

Manufacturer: General Oceanics

(Ocean Test Equip., General Oceanics, IOS)

Volume of bottles (litres):

1. Make:	<u>Hawboldt</u>	model:	_____	serial #:	<u>17026</u>	used for:	<u>Cable Type: 322 x 3 cm (6100)</u>
2. Make:	<u>Hawboldt</u>	model:	_____	serial #:	<u>17027</u>	used for:	<u>Cable Type: 322 x 7 cm (3300 m)</u>
3. Make:	_____	model:	_____	serial #:	_____	used for:	_____
4. Make:	_____	model:	_____	serial #:	_____	used for:	_____
5. Make:	_____	model:	_____	serial #:	_____	used for:	_____
6. Make:	_____	model:	_____	serial #:	_____	used for:	_____
7. Make:	_____	model:	_____	serial #:	_____	used for:	_____
Comments: _____							

Salinometer: make: _____ model: _____ serial number: _____

Comments: _____

Program: Seawave Win 32 Version: 5.32
Sampling interval (seconds): 30
Fluorometer sensor serial number: WS3S-713P
Comments: Logging flow sensor voltage (1 V $\approx$ 1 L/S)
2 External temperature sensor syn 2416 (05-Aug-04)
Tec sales : 04-Dec-04

Computer time zone: _____

Sampling interval (sec): _____

Bin Length: (2^x): _____

Pulse Length: _____

Buffer (bytes): _____

Gyro Offset: _____

Comments: _____

User Exits: Name: _____ Exit points: _____

Name: _____ Exit points: _____

Name: _____ Exit points: _____

Work File: _____

Comments:

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year			Ship			Cruise ID					
March				2005			Tully			2005-02					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
01	LC12	2200		Loop1			48°14.98	126°40.11	2535				ST		weather too rough
02	LC12	0843		Loop2			48 11.21	126 36.75					DA		weather still rough
2		0800		Loop3			48°03.11	126°30.31					ST		"
2	LC09	1215		Loop4			48 25.94	126 18.34					DA		"
2	B10-1	1603		Loop5			48 31.84	126 11.35					VF		
2	B101-1	1510-1556		Go-Flow		001	48 31.8	126 11.3	435	43	19-24	5	JE,JB,MA,AP		43 & 30 m bottles were not cooled correctly
2	B101-1	1919		MOORING		002	48°31.745	126° 11.200'	395				JE,DT,AP		buoy submerged 1922
2	B101	2016	BE	ROS	US	003	48°31.50	126°11.36	400		1-18		ST		
		2023	BO				48°31.53	126° 11.41		453					
		2041	EN				48° 31.57	126°11.47							
2	B101	2031		Loop6			48.31.543	126° 11.434							
	LC09	2152		ROS		004	48°25.99	126°13.76	612						
		2159					48°25.98	126°13.75		615					
		2242	BO	NET		005	48°26.28	126°13.95	613				DM/ST		
										270					BONGO

Cast type:

BOT = bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD

USW = sea water loop

MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

US = up / stop
 UN = up / no stop
 DN = down / no stop

Time Code

BE = beginning time of cast
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>MARCH</i>				Year <i>2005</i>				Ship <i>TULLY</i>				Cruise ID <i>2005-02</i>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
2	LC08	2345	BO	NET		006	48'25.36	126'07.29	201		25-40	16			
3	LC08	0015	BE	ROS		007	48 29.37	126 07.40	203				DAMG		
3		0019	BO	ROS			48 29.36	126 07.40		192					large sal drift due to cond sensor drift
		0037	EN				48 29.30	126 07.30							approx -0.010 sec-pri
3	LC07	0137	BE	CTD		008	48 32.98	126 00.53	130						
		0140	BO				48 32.99	126 00.52		120					
		0142	EN				48 32.99	126 00.52							
3	LC06	0248	BE	ROS		009	48 36.82	125 54.09	93						LC07 in Jershel
		0252	BO				48 36.81	125 54.08		85	41-52	12	DAMG		
		0303	EN				48 36.81	125 54.10							
3	LC06	0326		BONGO		0010	48 37	125 54.4	90	80					BONGO
3	LC05	0407		LOOP8			48 39.98	125 47.46							
3	LC05	0415		BONGO		011	48 39.95	125 47.45	65						
3	LC05	0427	BE	CTD		012	48 39.93	125 47.44	66	58					
		0430	BO				39.94	47 42							
		0431	EN				39.94	47 42							

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month MARCH				Year 2005			Ship J.P. TULLY				Cruise ID 2005-02				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
3	LC04	0525	BE	ROS	US	013	48° 43.43'	125° 40.90'	168				SE, DT, JB		File header changed
		0528	BO				48° 43.44'	125° 40.92'		158	53-67	15			to correct ship/cruise ID
		0540	EN				48° 43.36'	125° 40.92'							
3	LC03	0641	BE	CTD		014	48° 46.95'	125° 34.39'	138				SE, DT, JB		
		0644	BO				46.94	34.44'		128	/	0			
		0646	EN				46.94	34.43'							
3	LC02	0716	BE	ROS		015	48° 48.73'	125° 31.05'	112				SE, DT, JB		
		0719	BO				48° 48.71'	125° 31.10'		102	68-79	12			
		0727	EN				48° 48.71'	125° 31.07'							
3	LC02	0814		LOOP9			48° 50.41	125° 27.74	98				ST4	✓	
		0815	BE	ROS		016	48° 50.41	125° 27.74	98				DM		
		0818	BO				48° 50.48	27.74		99					
		0819	EN				48° 50.50	125° 27.72							
	LCB3	1010	BE	ROS		017	48° 34.51	125° 29.98	117						
		1012	BO				34.53	29.98		113	80-92	13	ST		
			EN												
		1045	BO	NET		018	48° 34.56	125° 30.02	115	110?			DM		
	LCB4	10	BO	NET		019									

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Mar 3 / 05

Re:

Having a very bad day!

→ Oxygen titrations: During the analysis of the oxygen samples from cast 9, the sodium thio sulfate was topped up. I noticed the "new" bottle had a strong odour, ~~but~~ + when I began to pour it in, noticed it was a lemon yellow colour. Obviously something was wrong but now my sodium thio was tainted. I did find a second bottle of sodium thio which was clear, but standardized low @ around 0.502 rather than in the 0.700 - 0.730 range. I honestly don't know what happened - why I had bad solutions, but I was able to standardize + titrate the samples. They seemed to titrate fine + the curves looked OK. I will try + make some sense of the data later when I can compare it to the CTD oxygen probe data +/or salinity.

Shelby Lewis

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Month				Year				Ship				Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments	
	LB4		BE	ROS	✓	20					93-103	11	ST			
		12:21	BD	LOOP10			48 32.04	125 35 38								
			EN													
	LB08			ROS		21					104-					
3																
3	LOOP	12:24		LOOP10			48 32.04	125 35 38					ST			
3	LCB4	12:48	BE	ROS		20	48 32.02	125 35 60	82							
		12:50					48 32.05	125 35 64			93-103	11	DA ^{KE} VF			
		13:00					48 32.05	125 35 81								
3	LB08	14:21	BE	ROS		21	48 25 30	125 28.65	145							
		14:24	BO				48 25.30	125 28.65			104-117	14				
		14:36	EN				48 25.32	125 28.53								
3	LB07	16:03	BE	CTD		22	48° 28.64	125° 22.19	158				JE, DT, JB			
		16:07	BO				48° 28 65	125° 22.18		148						
		16:09	EN				48° 28 66	125° 22.15								
3	Loop	16:07		Loop11			48° 28.65	125° 22.18								
3	LB06	16:54	BE	ROS		23	48° 32.19	125° 15.38	116							
		16:58	BO				48° 32.19	125° 15.40		106	118-129	12		✓		
		17:07	EN				48° 32.21'	125° 15.52'								

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
3	LB05	1803	BE	CTD		24	48° 33.985	125° 11.965	104						
	LB05	1804	BO				48° 34.066	125° 12.011		98	—	—			
	LB05	1810	EN				48° 34.103	125° 12.060							
3	LB04	1838	BE	ROS		25	48° 35.646	125° 08.827	113						
	LB04	1841	BO				48° 35.716	125° 08.904		103	130-141	12	DT		
	LB04	1851	EN				48° 35.797	125° 08.964							
3	LB03	1951	BE	CTD		26	48° 37.320	125° 05.833	95						
		1953	BO				48° 37.30	125° 05.85		86			ST		cleaned Niskins w/ KO
		1954	EN				48° 37.30	125° 05.86							
3	LB03	2011		LOOP 12			48° 38.35	125° 04.13							
	LB02	2026	BE	ROS	US	27	48° 39.03	125° 02.53							
		2028	BO				48° 39.02	125° 02.56	57		142-151	10	ST	✓	SFC; HPLC missed
		2035	EN				48° 39.03	125° 02.59		50					
3	LB01	2115	BE	CTD		28	48° 40.42	124° 59.71	34	24	—	—			
		2116	EN				40.42	124° 59.72							
3	75	2338	BE	ROS		29	48° 28.09	124° 32.92	228		152-168	17			
		2342	BO				48° 28.11	124° 32.90		220			ST		Changed sensors,
		2354	EN				48° 28.12	124° 32.91							Modified con file
4	75-JDF3	0204		LOOP 13			48° 20.604	124° 2.215							Renamed con file

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Changed sensors on CTD s/n 0443.

New T&C configurations

TO: 2449

CO: 2102

TI: 2023

CI: 1766

Saved AS: 0443_200502_CTD.CO1X

