

DAILY LOG BOOK

MISSION
NUMBER

2004-18

DATE:

From: 25 MAY 2004 to: 10 JUNE 04

VESSEL:

CCG W.E. RICKER

PROJECT:

WCVI TRAWL - JEFF FARGO

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

Captain: WENSLEY DAVID First Officer: GASCON, JAMES
Second Officer: CHMARA, ZURRY Third Officer: _____
FISHING MASTER: WEST, BRIAN
Mission Participants / Agencies: _____

Scientific Personnel:	Party Chief:
Name	Watch
WORKMAN, GREG	
KRONLUND, ROB	
CHOROMANSKI, ED	
WYETH, MARCOON	
RUTHERFORD, KATE	
MUTTON, WENDY	
WINCHELL, PAUL	
SIGMUND, GARY	
PEDEN, ALEX	

[illegible]

Data logging computer: TAC CTD
 Data acquisition program: SEAsoft CTD - SEASAVE WIN version 5.25
 CTD deck unit make: SBE model: 11 serial number: 11P18377 ~~0471~~
 Primary CTD

Make: Seabird Electronics Inc. model: 9plus-6800M serial number: 09P18377-0506

Primary temperature serial number: _____

Primary conductivity serial number: 032710 ← obscured by mount

Secondary temperature serial number: _____

Secondary conductivity serial number: 042095

Transmissometer: SeaTech Model: XM155 s/n: 197

Fluorometer: Model Seapoint Cable gain: 10x/0.5ug/L P S or NO pump?

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

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

Other sensors: not applicable _____ 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 _____ s/n: _____

Make: not applicable 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: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

CTD calibration bottle location (height above CTD in metres):

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month MAY					Year 2004			Ship CCG W5 RICKER				Cruise ID 2004-18		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
27	LB03	0341	CTD	BE	001	48 37.27	125 5.55	88 m				PW		★
				BO		48 37.27	125 5.56		76 m					TARGET D = 75 m
		0345		EN		48 37.27	125 5.55							
27	LB04	0436	CTD	BE	002	48 35.66	125 8.68	106				PW		★
		0438		PO		48 35.63	125 8.65		95					TARGET D = 95 m
		0440		EN		48 35.61	125 8.64							
27	LB06	0527	CTD	BE	003	48 32.17	125 15.41	108				PW		
		0530		BO		48 32.16	125 15.42		101					TARGET D = 100 m
		0532		EN		48 32.17	125 15.42							
27	LB08	0652	CTD	BE	004	48 25.21	125 28.59	128				PW		
		0655		BO		48 25.16	125 28.57		120					TARGET D = 120 m
		0657		EN		48 25.13	125 28.54							
27	LB09	0740	CTD	BE	005	48 21.99	125 34.86	135				PW		TARGET D = 125 m
		0743		BO		48 21.93	125 34.83		126					
		0746		EN		48 21.88	125 34.80							
27	LB10	0828	CTD	BE	006	48 18.51	125 41.26	140				PW		TARGET D = 130 m
		0831		BO		48 18.46	125 41.19		128					
		0834		EN		48 18.44	125 41.10							

Cast type:

BOT = bottle cast, no CTD
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USW = sea water loop
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 NET = net haul
 DRF = drifter

• bottle firing method:

• US = up / stop
 • UN = up / no stop
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• Time Code

• BE = beginning time of cast
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RE = recover mooring time

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

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Additional comments

- 100 LB04
- hydraulic leak from hose controlling ram,
 - Counter not working,
 - Controls for cable in & out sticky. Looked @ & taken apart by engineer.

- Event 002 is actually Str LB04! Miscommunication b/w watch & relief, & LAB.
(originally - in files - labelled as LB05)

* on all casts by Paul Winchell (PW)
Depth entered into the header bar is bottom depth, not target.

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Month MAY					Year 2004			Ship CCG W.E. RICKER				Cruise ID 2004-18		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
27	LB 11	0919	CTD	BE	007	48 15.21	125 47.71	190				PW		
		0923		BO		48 15.18	125 47.66		179					TARGET D=180m
		0927		EN		48 15.15	125 47.57							
27	LB 12	0958	CTD	BE	008	48 12.89	125 51.85	490				PW		
		1007		BO		48 12.77	125 51.69		474					TARGET D=475
		1015		EN		48 12.66	125 51.57							
27	LB 13	1045	CTD	BE	009	48 10.62	125 56.12	850				PW		
		1101		BO		48 10.37	125 55.90		835					TARGET D=835
		1113		EN		48 10.17	125 55.76							
27	LB 14	1141	CTD	BE	010	48 8.40	125 59.97	1140				PW		
		1203		BO		48 8.11	125 59.73	1123	1098					TARGET D=1100m
		1224		EN		48 7.82	125 59.59							
28	LC 11	0350	CTD	BE	011	48 18.94	126 26.64	1428				PW		Salinity @ Depth.
		0418		BO		48 18.92	126 26.64		1400		1			TARGET D=1400
		0448		EN		48 18.91	126 26.73							
28	LC 10	0533	CTD	BE	012	48 22.39	126 20.12	1210				PW		
		0554		BO		48 22.37	126 20.14	1213	1191					TARGET D=1190
		0616		EN		48 22.36	126 20.19							

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Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
28	LC-09	0658	CTD	BE	013	48 25.97	126 13.76	590				PW		
		0709		BO		48 25.95	126 13.74		575		/			TARGET D= 575m
		0717		EN		48 25.93	126 13.68							
28	LC-08	0754	CTD	BE	014	48 29.49	126 7.26	190				PW		
		0802		BO		48 29.49	126 7.26		176		/			TARGET D= 175
		0806		EN		48 29.48	126 7.26							
28	LC-07	0848	CTD	BE	015	48 32.93	126 0.58	120				PW		
		0851		BO		48 32.92	126 0.59				/			TARGET D= 110
		0853		EN		48 32.91	126 0.59							
28	LC-06	0937	CTD	BE	016	48 36.44	125 54.06	87				PW		
		0939		BO		48 36.45	125 54.06		76		/			TARGET D= 75
		0941		EN		48 36.45	125 54.06							
28	LC-05	1024	CTD	BE	017	48 39.94	125 47.46	58				PW		
		1025		BO		48 39.94	125 47.48		50		/			TARGET D= 50
		1027		EN		48 39.94	125 47.49							
28	LC-04	1110	CTD	BE	018	48 43.44	125 40.95	155				PW		
		1113		BO		48 43.45	125 40.97		147		/			TARGET D= 145
		1116		EN		48 43.46	125 41.00							

Cast type: USW = sea water loop • bottle firing method: • Time Code
 BOT = bottle cast, no CTD MOR = mooring • US = up / stop • BE = beginning time of cast DE = deployment time
 CTD = CTD without Rosette NET = net haul • UN = up / no stop • BO = bottom time of cast MR = messenger release time
 ROS = Rosette plus CTD DRF = drifter • DN = down / no stop • EN = end of cast time RE = recover mooring time

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>MAY</i>					Year <i>2004</i>			Ship <i>W.E. RICKER</i>			Cruise ID <i>2004-18</i>			
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
<i>29</i>	<i>LC-03</i>	<i>0431</i>	<i>CTD</i>	<i>BE</i>	<i>019</i>	<i>48 46.90</i>	<i>125 34.20</i>	<i>137</i>				<i>PW</i>		
		<i>0434</i>		<i>BO</i>		<i>48 46.91</i>	<i>125 34.21</i>		<i>131</i>		<i>/</i>			<i>TARGET D=130'</i>
		<i>0437</i>		<i>EN</i>		<i>48 46.92</i>	<i>125 34.21</i>							
<i>29</i>	<i>LC-02</i>	<i>0504</i>	<i>CTD</i>	<i>BE</i>	<i>020</i>	<i>48 48.66</i>	<i>125 30.84</i>	<i>104</i>				<i>PW</i>		
		<i>0507</i>		<i>BO</i>		<i>48 48.66</i>	<i>125 30.86</i>		<i>96</i>		<i>/</i>			<i>TARGET D=95</i>
		<i>0509</i>		<i>EN</i>		<i>48 48.66</i>	<i>125 30.85</i>							
<i>29</i>	<i>LC-01</i>	<i>0533</i>	<i>CTD</i>	<i>BE</i>	<i>021</i>	<i>48 50.42</i>	<i>125 27.67</i>	<i>89</i>				<i>PW</i>		
		<i>0535</i>		<i>BO</i>		<i>48 50.41</i>	<i>125 27.69</i>		<i>80</i>		<i>/</i>			<i>TARGET D=80</i>
		<i>0537</i>		<i>EN</i>		<i>48 50.41</i>	<i>125 27.69</i>							
<i>29</i>	<i>LD-01</i>	<i>0721</i>	<i>CTD</i>	<i>BE</i>	<i>022</i>	<i>48 59.47</i>	<i>125 44.83</i>	<i>39</i>				<i>PW</i>		
		<i>0722</i>		<i>BO</i>		<i>48 59.48</i>	<i>125 44.84</i>		<i>30</i>		<i>/</i>			<i>TARGET D=30</i>
		<i>0723</i>		<i>EN</i>		<i>48 59.48</i>	<i>125 44.84</i>							
<i>29</i>	<i>LD-02</i>	<i>0740</i>	<i>CTD</i>	<i>BE</i>	<i>023</i>	<i>48 58.37</i>	<i>125 46.98</i>	<i>35</i>				<i>PW</i>		
		<i>0741</i>		<i>BO</i>		<i>48 58.38</i>	<i>125 46.99</i>		<i>26</i>		<i>/</i>			<i>TARGET D=25</i>
		<i>0742</i>		<i>EN</i>		<i>48 58.38</i>	<i>125 46.99</i>							
<i>29</i>	<i>LD-03</i>	<i>0806</i>	<i>CTD</i>	<i>BE</i>	<i>024</i>	<i>48 56.58</i>	<i>125 50.39</i>	<i>42</i>				<i>PW</i>		
		<i>0808</i>		<i>BO</i>		<i>48 56.59</i>	<i>125 50.39</i>		<i>35</i>		<i>/</i>			<i>TARGET D=35</i>
		<i>0809</i>		<i>EN</i>		<i>48 56.59</i>	<i>125 50.38</i>							

Cast type:
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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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DE = deployment time
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>MAY</i>					Year <i>2004</i>			Ship <i>W.E. RICKER</i>				Cruise ID <i>2004-18</i>			
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments	
						Latitude	Longitude								
29	LD-04	0851	CTD	BE	025	48 53.23	125 56.89	55				PW			
		0852		BO		48 53.23	125 56.88		45		/				TARGET D=45
		0854		EN		48 53.23	125 56.87								
29	LD-05	0937	CTD	BE	026	48 49.71	126 3.52	80				PW			
		0939		BO		48 49.73	126 3.52		73		/				TARGET D=70
		0940		EN		48 49.74	126 3.54								
29	LD-06	1022	CTD	BE	027	48 46.22	126 10.11	125				PW			
		1025		BO		48 46.22	126 10.11		115		/				TARGET D=115
		1027		EN		48 46.23	126 10.11								
29	LD-07	1111	CTD	BE	028	48 42.70	126 16.77	490				PW			
		1120		BO		48 42.65	126 16.75		476		/				TARGET D=475
		1129		EN		48 42.63	126 16.70								
29	LD-08	1210	CTD	BE	029	48 39.16	126 23.40	745				PW			
		1223		BO		48 39.12	126 23.42		699		/				TARGET D=700
		1232		EN		48 39.11	126 23.41								
30	LE-08	0307	CTD	BE	030	48 40.21	126 37.91	1270				PW			
		0331		BO		48 40.13	126 38.09	1270	1250		1				TARGET D=1250
		0356		EN		48 40.10	126 38.16								

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Month MAY					Year 2004			Ship W.E. RICKER				Cruise ID 2004-18		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
30	LE-07	0445	CTD	BE	031	48 44.11	126 32.01	511				PW		
		0454		BO		48 44.05	126 32.04		500		/			TARGET D=500
		0504		EN		48 43.99	126 32.04							
30	LE-06	0550	CTD	BE	032	48 48.44	126 26.31	207				PW		
		0554		BO		48 48.45	126 26.34		199		/			TARGET D=200
		0558		EN		48 48.45	126 26.36							
30	LE-05	0645	CTD	BE	033	48 52.75	126 20.42	153				PW		
		0648		BO		48 52.76	126 20.45		144		/			TARGET D=145
		0651		EN		48 52.77	126 20.46							
30	LE-04	0733	CTD	BE	034	48 56.46	126 15.04	114				PW		
		0735		BO		48 56.47	126 15.04		105		/			TARGET D=105
		0737		EN		48 56.47	126 15.05							
30	LE-03	0816	CTD	BE	035	49 0.43	126 10.57	75				PW		
		0817		BO		49 0.44	126 10.56	66	66		/			TARGET D=65
		0819		EN		49 0.44	126 10.56							
30	LE-02	0912	CTD	BE	036	49 4.26	126 4.49	51				PW		
		0913		BO		49 4.26	126 4.48		45		/			TARGET D=45
		0914		EN		49 4.27	126 4.49							

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Month MAY					Year 2004			Ship W.E. RICKER				Cruise ID 2004-18		
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						Latitude	Longitude							
30	LE-01	0946	CTD	BE	037	49 7.02	126 0.90	37				PW		
		0947		BO		49 7.03	126 0.90		31		—			TARGET D = 30m
		0948		EN		49 7.03	126 0.89							
31	LF-09	0330	CTD	BE	038	48 45.80	126 56.74	1335				PW		
		0355		BO		48 45.78	126 56.71		1320		1			TARGET D = 1320
		0421		EN		48 45.78	126 56.70							
31	LF-08	0505	CTD	BE	039	48 50.03	126 50.72	1202				PW		
		0526		BO		48 49.98	126 50.63		1174		—			TARGET D = 1175
		0548		EN		48 49.97	126 50.61							
31	LF-07	0632	CTD	BE	040	48 54.09	126 44.68	684				PW		
		0643		BO		48 54.05	126 44.71		674		—			TARGET D = 675
		0655		EN		48 54.03	126 44.67							
31	LF-06	0738	CTD	BE	041	48 58.08	126 38.82	430				PW		
		0746		BO		48 58.05	126 38.72		420		—			TARGET D = 420
		0754		EN		48 57.98	126 38.56							
31	LF-05	0835	CTD	BE	042	49 2.00	126 33.29	145				PW		
		0838		BO		49 1.98	126 33.25		135		—			TARGET D = 135
		0841		EN		49 1.96	126 33.23							

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Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments	
						Latitude	Longitude								
31	LF-04	0922	CTD	BE	043	49 5.92	126 27.57	120				PW			
		0924		BO		49 5.91	126 27.56		111		/			TARGET D = 110	
		0926		EN		49 5.89	126 27.55								
31	LF-03	10 06	CTD	BE	044	49 9.64	126 21.96	80				PW			
		10 08		BO		49 9.63	126 21.96		71		/			TARGET D = 70	
		10 10		EN		49 9.62	126 21.95								
31	LF-02	1047	CTD	BE	045	49 13.22	126 16.60	42				PW			
		1048		BO		49 13.21	126 16.61		35		/			TARGET D = 35	
		1049		EN		49 13.21	126 16.62								
31	LF-01	11 08	CTD	BE	046	49 14.81	126 14.37	25				PW			
		11 08		BO		49 14.80	126 14.38		20		/			TARGET D = 20	
		11 09		EN		49 14.80	126 14.39								
01	LH-07	0419	CTD	BE	047	49 13.75	127 16.42	1401				PW			
		0455		BO		49 13.75	127 16.18		1384		1			TARGET D = 1380	
		0523		EN		49 13.94	127 16.01								
01	LH-06	0603	CTD	BE	048	49 17.61	127 10.43	454				PW			
		0611		BO		49 17.62	127 10.40		440		/			TARGET D = 440	
		06		EN											

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Additional comments

CAST LH-07, EVENT 047: winch troubles @ 755m. Cast halted, equipment
still running
- time of incident ~ 0435 UTC

Cast LH-06 → Lost NMEA display when stop acquisition. so didn't get the EN data.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>JUNE</u>					Year <u>2004</u>			Ship <u>W.E. RICKER</u>				Cruise ID <u>2004-18</u>			
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments	
						Latitude	Longitude								
01	LH-05	0659	CTD	BE	049	49 21.36	127 4.45	153				PW			
		0702		BO		49 21.39	127 4.49		146		/			TARGET D= 145	
		0705		EN		49 21.40	127 4.35								
01	LH-04	0741	CTD	BE	050	49 24.83	126 58.74	129				PW			
		0744		BO		49 24.82	126 58.73		120		/			TARGET D= 120	
		0746		EN		49 24.81	126 58.71								
01	LH-03	0826	CTD	BE	051	49 28.70	126 52.84	95				PW			
		0828		BO		49 28.70	126 52.82		86		/			TARGET D= 85	
		0830		EN		49 28.69	126 52.79								
01	LH-02	0906	CTD	BE	052	49 32.15	126 47.42	50				PW			
		0907		BO		49 32.15	126 47.42		40		/			TARGET D= 40	
		0908		EN		49 32.15	126 47.43								
01	LH-01	0932	CTD	BE	053	49 34.27	126 44.24	29				PW			
		0933		BO		49 34.26	126 44.23		21		/			TARGET D= 20	
		0934		EN		49 34.26	126 44.23								

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
BO = bottom time of cast
EN = end of cast time

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

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

22 March 2002
Daily_log_book.doc