

DAILY LOG

CRUISE
NUMBER

2002-14

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

30 April - 8 May 2002

VESSEL

J. P. TULLY

PROJECT

WCVI Plankton

Captain: _____ First Officer: _____

Second Officer: _____ Third Officer: _____

Mission Participants / Agencies: _____

Scientific Personnel: _____ Party Chief: Dave Mackas

Name	Watch	Cabin	Name	Watch	Cabin
Janet Barwell-Clarke		G	Doug Yelland		F
Sonia Batten		D			
Doug Bertram		H			
Laura Fissel		G			
Mike Henry		H			
Doug Moore		C			
Angelica Pena		E			
Melanie Quenneville		E			
Gerald Rohatensky		F			
Sheila Toews		B			
Maya Tsurumi		D			

Second leg of Mission: Party Chief: _____

Name	Watch	Cabin	Name	Watch	Cabin

Data logging computer: F502

Data acquisition program: SEASOFT

CTD deck unit make: SEABIRD model: 11 PLUS serial number: 0508

Primary CTD

Make: Seabird model: 911 serial number: 0585
Primary temperature sensor serial number: 2038 Calibration date: 11/09/01
Primary conductivity sensor serial number: 1729 Calibration date: 17/07/01
Secondary temperature sensor serial number: 2968 Calibration date: 18/09/01
Secondary conductivity sensor serial number: 2173 Calibration date: 11/09/01
Other sensors: transmissometer (wet lab) s/n: 498 DR
Other sensors: Seapoint fluorometer s/n: 2356
Other sensors: Seabird SBE 43 D.O. sensor s/n: 47
Other sensors: PAR s/n: 4601

Secondary CTD

Make: Seabird model: 911 serial number: 550
Primary temperature sensor serial number: 2668 Calibration date: 07/03/00
Primary conductivity sensor serial number: 2102 Calibration date: 28/09/00
Secondary temperature sensor serial number: 2374 Calibration date: 02/05/00
Secondary conductivity sensor serial number: 1766 Calibration date: 11/09/01
Other sensors: transmissometer s/n: 333 DR
Other sensors: _____ s/n: _____
Other sensors: _____ s/n: _____

Comments: I changed all the large O rings on the Rosette's top air vents, as well as the small O-rings on the salinity. The inner ones looked O.K. I found that bottle 21 was broken and replaced it. (ST.)

- cleaned transmissometer lenses at start of cruise.

DAILY LOG

Ocean Sciences and Productivity Division

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Year 2002					Month APRIL / MAY			Ship J.P. TULLY			Cruise I.D. 2002-14			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
30	SI01	ROS	1736	BE	1	48°36.96	123°30.09				1-18	18	S.T	CTD/Rosette Test cast
			1739	BO		48°36.95	123°30.08		199					↓
			1800	EN		48°36.96	123°30.02							↓
	SI01	NET	1929	BE	2	48°37.15	123°29.64		212				DFM	0-200m bongo
			1935	BO		48°37.16	123°29.63							↓
			1943	EN		"	123°29.66							↓
01/5	LOOP01	USW	0213		3	48°18.8	123°27.8							LOOP.
	LOOP02	USW	0406		4	48°19.7	123°52.65							LOOP
	LOOP03	USW	0608		5	48°27.4	124°26.99							LOOP.
	LOOP04	USW	0801		6	48°31.69	125°4.19							LOOP
	E1	NET	0844	EN	7	48°31.794	125°4.2		119				SDB	0-110m bongo
01	E1	CTD	1102		8	48°31.653	125°3.85			110				* See back
			1108			48°31.67	125°03.83							
01		LOOP5	1128		9	48°30.60	125°04.93			LOOP#5			S.T	Loop "5"
01	C2	ROS	1222	BE	10	48°25.41	125°07.79				19-32			
			1224	BO		48°25.40	125°07.79		135					
			oops	EN						126				
	C2	NET	1254	EN	11	48°25.22	125°07.861		114	105				BONGO TO 105m

Cast type:

BOT = otter cast

CTD = CTD

MOR = mooring

ROS = Rosette

NET = net haul

DRF = drifter

USW = sea water loop

Time Code

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04²⁰ May 1

For this CTD cast, the pump would not come on. We tried everything - flushing the cells with salt water, switching CTD's, switching deck units, checking cable connections but nothing happened.

Often when you attempt to acquire data, there is a "glitch" in the software that comes up with the following error - "Cannot use com1 and com2 at the same time". During our fiasco, this error message never showed up. The main computer was rebooted (completely powered down) for the second time, but for the first time this error showed up. The pump then worked! So Doug Y + I think this glitch in the software may be more of a problem than just having to restart Seasave. We'll see if it happens again. Will attempt to phone Doug Anderson about it in the a.m. - at a decent time. S. Toews

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01	C1	Bongo	1404		12	48 28.94	125 15.27		150	140			D.M	
		CTD	1417	BE	13	48 28.89	125 15.19		150				S.T.	
			1420	Bo		48 28.89	125 15.16			144				
			1422	EN		48 28.89	125 15.14							
	C3	ROS	1532	BE	14	48 23.59	125 20.79		119	115	33-46			ROS many ch2 bottles
			1534	BO		48 23.61	125 20.80							
			1552	EN		48 23.56	125 20.95							
		NET	1609		15	48 23.46	125 21.04		119	115				0-115 bongo
	B8	NET	18:00		16	48 34.54	125 30.20		132	125				Reverse order (B8 → B7)
		CTD	18:18	BE	17	48 34.49	125 30.09		121	115				from orig work sched
			1820	BO		48 34.54	125 30.09							
			1822	EN		48 34.55	125 30.07							
	Loop6	USW	19:01		18	48 32.54	125 34.866		78					
	B7	CTD	1925	BE	19	48 32.05	125 35.40		76	71				
			1930	BO		48 32.08	125 35.32							
				EN										
		NET	1944		20	48 32.103	125 35.512							
	LC9	ROS	2248	BE	21	48 26.10	126 13.36		593					
			2302	BO	21	48 26.06	126 13.32			584	47-65		ST	

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2002					Month MAY			Ship J.P. TULLY				Cruise I.D. 2002-14		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
			—	EN	21	—	—							
	LC9	NET	2350	EN	22	48° 25.90'	126° 13.70'		593	250		DFM		BONGO NET TO 250 m
2 May	LC12	NET	0229	EN	23	48 15.03	126 40.02					DFM		BONGO NET TO 250 m
		NET	0250	EN	24	"	"					DFM		SCOR NET TO 150 m
		CTD	0312	BE	25	48 15.01	126 40.03		>1400	1003		DLM		Paused @ 658 m on down cast while ship deals w/ engine changeover ~ 605
			0333	BO	25	48 15.06	126 39.85							
			0346	EN	25	48 15.07	126 39.81							again ~ 20m hys in oxy
2 May	LC11	ROS	0509	BE	26	48 19.01	126 26.67		>1400	1001	66-89			
			0523	BO		48 19.02	126 26.59			1006				
			0606	EN		48 19.06	126 26.48							Bottle #20 did not trip
2 May	LC10	CTD	0723	BE	27	48 22.38	126 20.07		1150	1000				
			0743	BO		48 22.38	126 19.96			1005				SPAR not right? (I know it's dark outside!)
			0806	EN		48 22.48	126 19.70							
2 May	A2	GP	0922	BE	28	48 22.72	126 3.75		354					
			0929	BO		48 22.75	126 3.67			356				
			0935	EN		48 22.78	126 3.62							
	A2	NET	0948	BE	29	48 22.79	126 3.63		349	250				Bongo to 250 m

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
2 May	Loop 7	USW	10:27		30	48° 25.750	126° 04.937		212					
2 May	LC8	NET			31				198					
		ROS	1127	BE	32	48° 29.36	126° 07.03							
			1131	BO		48° 29.38	126° 07.03		200	195	90-103			
			1152	EN		48° 29.38	126° 07.02							
2	BI 01	PAR	1324	BE	33	48° 31.44	126° 10.89		682					
	↓		1335	BO		48° 31.43	126° 10.97		6	100	104-111			
	↓		1342	EN		48° 31.41	126° 11.03							
2	BI 01	ROS	1424	BE	34	48° 31.39	126° 11.22							
	↓		1430	BO		48° 31.35	126° 11.29		426		112-122			
	↓		1446	EN		48° 31.33	126° 11.41			423				
2 May	LC7	CTD	1557	BE	35	48° 32.89	126° 00.74		128	135				
	↓		1600	BO		48° 32.93	126° 00.76							
	↓		1602	EN		48° 32.95	126° 00.76							
2	LC6	ROS	1658	BE	36	48° 36.53	125° 53.96		89		123			
			1700	BO		48° 36.54	125° 53.91							
			1714	EN		48° 36.64	125° 53.79							
	↓	NET	1812		37	48° 36.55	125° 54.08		85	180				
2	LC5 (B5)	NET	1934		38	48° 40.12	125° 47.39		61					

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
2 Mar	LC5 B5	CTD	1948	DE	39	48 40.36	125 47.47		60					
			1951	BO		48 40.41	125 47.50			55				
			1954	EN		48 40.48	125 47.58							
	LC4	ROS	2057	BE	40	48 43.50	125 40.66		460					
			2100	BO		48 43.57	125 40.63			150	135-147	13		
			2117	EN		48 44.07	125 40.73							
	LC3	CTD	2219	BE	41	48 47.0	125 34.5		135					
				BO						125				Very rough-
			2232	EN		48 47.19	125 34.37							
2 Mar	Loop #8	USW	2305		42	48 50.36	125 31.42			~100				Loop #8
3 Mar	Loop #9	USW	03:02		43	48° 52.829'	125° 36.283'							Loop #9 - missed fcll
3 Mar	Loop #10	USW	06:53		44	49° 04.67	126° 08.16							bottle
3	Loop #11	USW	11:00		45	49 16.42	126 37.691							
	Loop #12	USW	1615		46	49 37.43	127 40.95							S.T. Loop 11
3 May	LBP8	CTD	1915	BE	47	49 48.58	128 16.80		2085					
			1932	BO		49 48.82	128 16.70			1005				
			1949	EN		49 49.05	128 16.37							
3 May	LBP7	ROS	2036	BE	48	49 52.40	128 11.09		2211		148-171			
			2055	BO		49 52.44	128 11.20			1005				

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After CTD cast at LBPG, wiped lenses on Transmissometer

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3 May	LBP7	ROS	2136	EN	48	49 52.47	128 11.37			1005					
	LBP7	NET	2155		49	49 52.40	128 11.51		>2000	250					
	LBP6	CTD	2251	DE	50	49 56.17	128 5.30		765					bongo to 250m	
			2307	BO		49 56.22	128 05.43						S.T.		
			2318	EN		49 56.17	128 05.57			857					
4 May	LBP5	ROS	0010	BE	51	49 59.42	127 59.85								
			0005	BO		49 59.90	127 59.85								
			01:19	EN		49 59.52	127 58.75				172-195				
	LBP5	NET	01:44	BO	52	50 00.14	127 59.72		1000	1480				BONGO TO 250 m.	
	LBP4	CTD	0219	BE	53	50 01.30	127 58.03								
			0236	BO		50 01.27	127 58.03		1100	1001					
			0252	EN		50 01.32	127 58.30								
	LBP3	ROS	0330	BE	54	50 03.06	127 54.96		175						
			0336	BO		50 03.01	127 55.02		-185	175	196-209			Replaced pinger, battery dead?	
			0354	EN		50 03.05	127 55.26								
		NET	0412	BO	55	50 03.05	127 55.26		165	160				Bongo to 160m	
	LBP2	NET	0438	BO	56	50 03.972	127 53.995		97	90				Bongo - flowmeter cord and preserved, sink as to contact of other cod end lost	

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments	
4 May	LBP 2	CTD	0457	BE	57	50 03.89	127 54.18	A	101	97					
1	↓	↓	0500	BO	1	50 03.84	127 54.16								
1	↓	↓	0504	EN	1	50 03.81	127 54.14								
4	LBP 1	CTD	0533	BE	58	50 04.89	127 52.78		48	41					
	1	1	534	BO	1										
			0535	EN	1	50 04.92	127 52.77								
	Loop 13	USW	0700		59	50 7.24	128 10.23								
	Loop 14	USW	1100		60	50° 36.47	128 32.71								
May 4	CPE 2	CTD	1216	BE	61	50° 43.01	128° 39.79							Loop	
			1219	BO		50° 42.97	128° 39.78		126					interesting fluorometry	
			1220	EN		50° 42.97	128° 39.79			121			ST.	reading	
		NET 1	1230	BO	62	50° 43.06	128° 39.94		50	122			DFM	BONGO TO 50m	
	✓	NET 2	1256	BO	63	50° 42.99	128° 40.03		115	122			DFM	BONGO TO 115m	
	Loop 15	USW	1509		64	50° 56.69	128° 28.08								
MAY 4	CS10	CTD	1726	BE	65	51 16.41	128 20.18		81					cleaned O ₂ sensor	
	1	1	1729	BO	1	51 16.40	128 20.19							(S.T.) 0930am	
	1	1	1730	EN	1	51 16.39	128 20.20								
		NET	1745		66	51 16.39	128 20.20							position NOT RECORDED 5m TAKEN FROM CTD	
Cast type:		BOT = otter cast CTD = CTD		ROS = Rosette NET = net haul		USW = sea water loop		Time Code		BE = beginning time of cast		DF = deployment time			

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Local Time

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Year 2002					Month MAY			Ship J-P navy			Cruise I.D. 2002-14			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
4/15/02	CS9	NET	1850	Bo	67	51 12.44	128 27.93		194	50			other	BONGO 0-50 m
		NET	1906	Bo	68	51 12.38	128 27.93		194	190			dy	Bongo to 190 m
		ROS	1922	BE	69	51 12.18	128 28.07		194					
			1927	Bo		51 12.13	128 28.04			188	210-223	14		
			1948	EN		51 11.98	128 28.08							
4 May	CS8	CTD	2045	BE	70	51 08.56	128 36.10		141	138				still large hysteresis on oxy profiles
			2049	Bo		51 08.51	128 36.15							
			2052	EN		51 08.49	128 36.18							
		NET	2106	Bo	71	51° 08.39'	128° 36.11'		141	55				BONGO to 55 m.
		NET	2121	Bo	72	51 08.39'	128 36.11'			127				Fluorometer cable changed (to 3 x ??)
4 May	CS7	NET	22:22	Bo	73	51° 04.65'	128° 44.05'		63	59				NO SPAR
4 May	CS7	CTD	2343	BE	74	51° 04.56	128° 43.95		63					
			2345	Bo		51° 04.59	128° 43.93			56				
			2346	EN		51° 04.62	128° 43.91							
5 May	CS6	ROS	0051	BE	75	51° 00.04	128° 49.91				224-236			
			0054	Bo		51° 00.04	128° 49.95			65				
			0105	EN		51° 00.01	128° 50.03				60			
	CS6	NET	0120	Bo	76	51° 00.21	128° 49.97		62	0-52				BONGO to 50 m

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5 May	CS 5	NET		Bo	77					0-60				0-50 µg Fluor cable
		CTD	0246	BE	78	50° 56.02	128° 59.91							
			0248	Bo		50° 56.03	128° 59.88		64	57			ST.	
			0249	EN	↓	50° 56.01	128° 59.89							
	CS 4	ROS	0420	Bo	79	50° 49.10	129° 12.95		102		236-247			
			0423	Bo	↓	50° 49.10	129° 12.93			94				0-50 µg Fluor cable
			0441	EN	↓	50° 49.02	129° 13.14							uncertain trip depths for rosette bottles 2-5
		NET	0522	Bo	80	50° 49.0	129° 13.0							6 & 7 are 30m, 7-12 OK
		NET	0600	Bo	81	" "	" "						DLM	BONGO to 50m
5 May	CS 1	BION		BE	82	50° 34.78	129° 41.54		> 2000	250				BONGO to 90m
	Loop 16	USW	0853		83	50° 35.186	129° 43.024		72000					details in BIONESS log
	Loop 17	USW	1053		84	50° 35.65	129° 35.63							@ CS 1
5 May	LO 03	CTD	1323	BE	85	50° 39.95	129° 01.74							Loop
			1334	Bo		50° 40.06	129° 01.75		750?					
			1343	EN		50° 40.19	129° 01.96			730				
		NET	1356	Bo	86	50° 40.15'	129° 01.97'		750	250				BONGO to 50m
		NET	1415	Bo	87	50° 40.26'	129° 01.97'			250				BONGO to 250m
5 May		USW	1520		88	50° 39.70'	129° 11.66'							

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5 May	J122	NET	1602		89	50° 39.83'	129° 17.390'			0-50				
		NET	1625		90	50° 39.94'	129° 17.09'			0-250				
		CTD	1651	BE	91	50° 39.77	129° 17.63		>1400	1002				Max fluor ~5 mg m ⁻³
			1703	BO		50° 39.85	129° 17.63							
			1717	EN		50° 40.08	129° 17.57							
5 May	CS3	CTD	1817	BE	92	50° 45.497	129° 20.025		230?					
			1826	BO		50° 45.47	129° 20.14			225				
			1830	EN		45.50	20.22							
		NET	1842		93									
		NET	1900		94	50° 45.73	129° 20.26							
5 May	CS2	NET			95	50° 41.262	129° 27.951		1500+					1958 UTC USW fl cleaned
		NET			96									
		ROS	2051	BE	97	50° 41.47	129° 27.58		1500+					depth estimated by bridge from Chart
			2109	BO		50° 41.81	129° 27.64			1005				
			2157	EN		50° 42.33	129° 27.64							
	CS1	CTD	2335	BE	98	50° 34.96	129° 41.59		>2000					
			2351	BO		50° 35.17	129° 41.55			1003				
May 6			0006	EN		50° 35.32	129° 41.42							
		NET			99									

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
		NET			100									
6/5		Loop 19	06:04		101	51° 7.049	129° 23.431							Loop.
06	CS3B	CTD	1105	BE	102	50° 59.93	129° 26.93							
			1109	BO		50° 59.94	129° 26.92		217	213			ST	
			1113	EN		50° 59.95	129° 26.90							
		NET	1127		103	51° 00.00	129° 27.00		217	50			ST/DM	
			1138		104	51° 00.00	129° 27.00			205				
06	ODAS	CTD		BE	105	51° 50.8							DLH	vacant ^{dist} # - did CTD as #108
				BO										
				EN										
06	ODAS	NET	1424	BO	106	51° 50.89	129° 54.81		>2000	0-50			DFM	BONGO
06		NET	1445	BO	107	50° 51.03	129° 54.43		>2000	0-250			DFM	BONGO
		CTD	1519	BE	108	50° 51.30	129° 52.71		>200				DLH	
			1532	BO		50° 51.45	129° 52.53			1016				CTD noisy on up trace
			1546	EN		50° 51.75	129° 52.40							10.20 sal > 0.2 pump switched off
06		Loop 20	1558		109	50° 51.43	129° 52.00							for up cast to ~570 m?

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Year 2002					Month May			Ship TULLY				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
6 May	CSØ	ROS	1828	BE	110	50 27.66	129 55.06		>2000		272-295	24	DRY	#21 no release
			1845	BO		27.87	55.01			1005				
			1933	EN		50 28.20	129 55.02							
		NET	1952	BO	111	50 29.00	129 55.03			35			DRY	BONGO: 0-50 w/wire L
		NET	2005	BO	112	50 30.00	129 55.05			234			DRY	BONGO: 0-250 w/wire L
	CSØ1	NET	2156	BE	113	50 34.68	129 41.52			250				Bioness (Day)
7 May	FRNT	CTD	0343	BE	114	50 13.58	129 11.61		>2000					0-50 bongo
			0355	BO		50 13.81	" 11.63			1001				
			0408	EN		50 14.04	" 11.49							
	↓	NET	0425		115									0-50m bongo
7 May		Loop 21	0625		116	50 01.33	128 52.67							
7 May		Loop 22	0950		117	49 34.46	128 16.89							
7 May		Loop 23	1050		118	49 26.89	128 05.07							
7	LJ9	CTD	1240	BE	119	49 16.15	127 47.31		>2000					
			1255	BO		49 16.39	127 47.11			1001				
			1308	EN		49 16.63	127 46.92							
	LJ8	ROS	14:00	BE	120	49 20.17	127 40.86		1750					
				BO		49 20.39	127 40.86			1002				
			15:02	EN		49 20.83	127 40.70							

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Year					Month			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
7 May	LJ8	NET		BO	121	49°20.1	127°41.0		1750					BONGO TO 250 m
7 May	LJ7	CTD	1630	BE	122	49°24.09	127°34.61		1816					
			1644	BO		49°24.19	127°34.72			1001			DLM	Changed fluorometer
			1658	EN		49°24.34	127°34.76							cable back to 10X (S.T.) + con. file
	LJ6	ROS	1749	BE	123	49°27.86	127°28.44		1050?					
			1802	BO		49°27.89	127°28.40			1004				
			1847	EN		49°27.92	127°28.53							
		NET			124									
	LJ5	CTD	1959	BE	125	49°31.65	127°22.53		1075					0-250 bongo
			2016	BO		49°31.79	127°22.89			1036				lost the bottom
				EN										
	LJ4	ROS	2118	BE	126	49°35.52	127°16.82		164					
			2121	BO		49°35.53	127°16.89			160	344-356	13		
			2137	EN		49°35.71	127°17.01							
	LJ4	NET	2147		127				148					
	LJ3	CTD	2243	BE	128	49°39.22	127°11.35		124					large > (wind up)
			2246	BO	128	49°39.26	127°11.43			119				

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INSTITUTE OF OCEAN SCIENCES

Year <u>2002</u>					Month <u>May</u>			Ship <u>Tolly</u>				Cruise I.D. <u>2002-14</u>		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
7 May	LJ3	CTD	2249	EN	128	49 39.30	127 11.51							
	LJ2	ROS	2341	BE	129	49' 42.69	127 05.36							
			2343	BO		49' 42.73	127 05.44		79					
			2354	EN		49' 42.87	127 05.73			79				
		NET			130									
8	LJ1	CTD	0042	BE	131	49' 44.43	127 02.61							
			0044	BO		49' 44.46	127 02.60		56 63	59				
			0046	EN		49' 44.47	127 02.62							
	LD4	CTD	0811	BE	132	48 53.16	125 57.25		63					
			0813	BO		48 53.18	125 57.26			62				
			0814	EN		48 53.18	125 57.27							
		NET	0834		133	48 53.17	125 57.12		62	60				
	LD2	NET	0948		134	48 58.35	125 47.07		42	40				
		CTD	1000	BE	135	48 58.40	125 47.11		42	40				
			1002	BO		48 58.40	125 47.11			40				
			1003	EN		48 58.40	125 47.10							

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