

DAILY LOG

CRUISE
NUMBER

2000-02

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

8-15 March 2000

VESSEL

Tully

PROJECT

Wide Straits - PERD

Oxygen standard

1 .003

2 .004

3 .002

3 .003

.003 Blank

1 .720 .719

2 .717 .718

3 .717 .719

.718

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month March			Ship TULLY			Cruise I.D. 2000-02			
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
08	S3	ROS			1									
8	SI03		2201	BE	2	48° 35.36	123° 30.18		225		1-13	13		
			2210	BO										
09	JFA1	ROS	0232	BE	3	48° 22.68	123° 19.94		113		14-21	8		calm, drizzle
			0232	BO	3	48° 22.70	123° 19.96							aag syst timed out 2 times looking for samples.
09	JFA2	ROS	0311	BE	4	48° 20.75	123° 19.95		45		22-26	5		pause at surface for ship manoeuvre.
			0314	BO	4	48° 20.76	123° 19.93							
09	JFA3	ROS	0354	BE	5	48° 17.22'	123° 20.07'		99		27-34	8		
			0356	BO	5	17 24	20.08							
			0407	EN	5	17.24	20.10							
09	JFA4	ROS	04146	BE	6	48° 14.27	123° 20.25	✓	50		35-39	5		Strong current
			04147	BO		14.27	20.29							
			04152	EN		14.24	20.42							
09	JFA5	ROS	05127	BE	7	48° 11.92	123° 19.96	✓	93		40-47	8		
			05130	BO		11.92	19.96							
			0541	EN		11.90	20.17							

Cast type:

BOT = otter cast
CTD = CTD
MOR = mooring

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Note: At JFAG upon powering the CTD at the surface the deck unit alarm sounded continuously. Turned deck unit off and then ON but it no longer gave the proper LED display. Sea cable connector at CTD fish was cleaned and regreased but still would not work. Dave S. noted odour of burnt rubber at connector indicating a short at the bulkhead. Fuse (250V 0.5amp) was blown.

To test operation of deck unit we connected second deck unit to CTD and alarm came on but the fuse in the second deck unit blew before we could turn it off. Then to our surprise we could find no 0.5 amp fuses in any of the spaces left, AND none on the ship.

Bernard and Dave transferring transmitter, fluorometer & pH sensor over to the other CTD fish # 0550.

We checked both deck units with $\frac{1}{4}$ amp fuse & shorter cable to CTD # 0550 and they worked.

Called the Laurier which was tied up at Ogden Pt and found that they had 6 fuses.

March 9 2K

0500 - Sitting @ JFBI site for 0800 start

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09	JFAG	ROS	BE		8	48°	123°		54					loud beep
			BO			Cast Abandoned								- powered down/up
			EN											- deck unit reads
														0,0,0,0,0,0,0,0.
														← see note opposite
09	JFB4	DRF	0751			48 11.760	123 35.435	GPS						20311 (PTT)
09	JFB3	DRF	0803			48 13.911	123 35.462							6003
09	JFB2	DRF	0819			48 15.952	123 35.500							20308
09	JFB3	DRF	0806 1636			48° 13.780	123° 35.251			153				#20305
09	JFB4	DRF	0855 1655			48° 11.745	123° 35.408			132				#20310
09	JFB5	ROS	1723	BE	9	48° 9.78	123° 35.27		40		48	1		* Start with Foh #550
			1726	BO										
			1728	EN		49° 9.79	123° 35.28							

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09	JFB4	ROS	1802	BE	10	48° 11.77	123° 35.38		134		49	1		
			1806	BO										
			1810	EN		11.28	35.39							
09	JFB3	ROS	1848	BE	11	48° 13.80	123° 35.39		157		50	1		
				BO										
			1856	EN		48° 13.78	123° 35.55							
09	JFB2	ROS	1922	BE	12	48° 15.86	123° 35.45		193		51	1		2.8 knots west
				BO										
			1931	EN		48 15.88	123° 35.95							
09	JFB1	ROS	2008	BE	13	48 17.61	123 35.22		157		52	1.		Buoy net on wind.
			2012	BO		48 17.59	123 35.21			147				
				EN										
9	JFC1	ROS	2114	BE	14	48 20.21	123 45.06		59.		53 - 59	7.		conductivity offed
						48 20.16	123 45.05			53				between C0 & C1
			2123	EN		48 20.16	123 44.97							
9.	JFC2	ROS	2148	BE	15	48 18.52	123 44.88		174.		60 - 70.	11.	✓	
				BO		48 18.47	123 44.52			164				
			2206			48 18.48	123 44.47							

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9.	JFC3	ROS	2235		16.	48 16.59	123 45.01		185		71-81	11.		
			2239			48 16.63	123 45.14							
			2254			48 16.82	123 45.88							
9	JFC4	ROS	2320		17	48 14.38	123 44.63		166		82-92	11.		
			2324			48 14.36	123 44.55			162				
19	JFC5	ROS	2359	BE	18	48° 12.37	123° 44.84		139		93-102	10		
10			0003	BO	18	48° 12.44	123° 44.70							
10			0014	EN	18	48° 12.49	123° 44.23							
10	JFC6	ROS	0038	BE	19	48° 10.33	123° 44.98		49 (loss)		103-107	5		
			0039	BO	19	48° 10.32	123° 44.98			35				
			0044	EN	19	48° 10.36	123° 44.94							
10	JFD7	ROS	0201	BE	20	48° 11.75	123° 59.88		49		108	1		
			0203	BO	20	48° 11.74	123° 59.86			38				
			0204	EN	20	48° 11.73	123° 59.85							
10	JFD6	ROS	0226	BE	21	48° 13.73	123° 59.94		117		109	1		
			0228	BO	21	48° 13.71	123° 59.91			110				
			0231	EN	21	48° 13.70	123° 59.88							
10	JFDE	ROS	0252	BE	22	48° 15.80	123° 59.95		182		110	1		
			0255	BO	22	48° 15.79	123° 59.98			176				

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Year 2000					Month 03			Ship TULLY				Cruise I.D. 2000-02		
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
10	JFD5	ROS	0259	EN	22	48° 15.82	124° 00.04					not taken		
10	JFD4	ROS	0320	BE	23	17.70	00.05		189		111←	1		beep at 162m
			0323	BO	23	17.67	00.01			162←				seawater froze up
			—	EN	23	—	—							*no up cast
10	JFD3	ROS	04:14	BE	24	48° 19.71	124° 0.15		165		112-113	2		spike at 60m on down cast
				BO	24									+97m
			04:25	EN	24	19.73	0.15							
10	JFD2	ROS	04:51	BE	25	48° 21.81	123° 59.86		121		114	1		
				BO	25									
				EN	25	21.71	59.88							
10	JFD1	ROS	0519	BE	26	48° 23.00	123 59.99		63		115	1		
				BO	26									
			0525	EN	26	23.02	59.97							
10	JFE1	ROS	07:01	BE	27	48° 27.17	124 15.02		29		116-118	3		
				BO	27									
			0707	EN	27									
10	JFE2	ROS	07:34	BE	28	48° 25.18	124° 14.90		134		119-127	9		
			0737	BO	28	25.15	14.89							
			0748	EN	28	25.15	14.90							

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X Mar 16 0330 UTC
JFDT - deck unit beeped at 162m on down cast -

blew fuse

sea cable extension showed burned contacts at ^{armoured cable} ~~deck unit end~~

cleaned, regreased, added proper sleeve connector

deck unit turned on OK.

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10	JFE3	ROS	0834	BE	29	48 23.25	124 15.00		184		128-139	12	BM	loop sal.	
			0838	BO		23.25	15.00			177					
			0851	EN		23.27	15.04								
10	JFE4	ROS	0924	BE	30	48 21.32	124 14.98		224		140-152	13	BM	loop sal.	
			0930	BO		21.36	14.96			213					
			0944	EN		21.38	14.92								
10	JFE5	ROS	1023	BE	31	48 19.24	124 14.99		213		153-165	13	BM		
			1029	BO		19.22	14.90			207					
			1041	EN		19.16	14.91								
10	JFE6	ROS	1125	BE	32	48 17.62	124 14.96		173		166-176	11	BM	loop sal	
			1129	BO		17.60	14.95			169					
			1139	EN		17.54	14.99								
10	JFE7	ROS	1209	BE	33	48° 16.44	124° 14.82		108+		177-184	8	JE		
			1212	BO		16.45	14.77			108					
			1220	EN		16.53	14.59								
10	JFF7	ROS	1338	BE	34	48° 21.02	124° 29.92		31		185	1	JE	winch starting to shake	
			1339	BO		21.02	29.91			25				on discart	
			1340	EN		21.02	29.91								

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Year	2000				Month	MARCH		Ship	TULLY				Cruise I.D.		2000-02	
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	
10	JFF6	ROS	1404	BE	35	48°	22.54	124° 30.08		109		186	1	JE	loop SAL	
			1407	BO			22.53	30.14			103					
			1410	EN			22.52	30.18								
10	JFF5	ROS	1432	BE	36	48°	24.56	124° 29.99		215		187	1	JE		
			1439	BO			24.62	30.02			212					
			1443	EN			24.64	30.01							skip JFF4 forms due to	
10	JFF3	ROS	1518	BE	37	48°	28.55	124° 29.89		214		188	1		loop sal	
			1521	BO			28.56	29.84			212				starting to get windy	
			1526	EN			28.58	29.81								
10	JFF2	ROS	1557	BE	38	48	30.43	124 29.94		142						
			1600	BO			30.44	29.92			137					
			1603	EN			30.45	29.91				189				
10	JFF1	ROS	1629	BE	39	48	31.77	124 30.12		63						
			1631	BO							57	190				
			1633	EN												
10	JFF4	ROS	1718	BE	40	48	26.53	124 30.12		230		190-197				
			1723	BO			26.55	30.27			227					
			1733	EN			26.61	30.58								

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Year <u>2000</u>					Month <u>03</u>			Ship <u>Tully</u>			Cruise I.D. <u>2000-02</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
10	JFS11	ROS	1846	BE	41	48 22.91	124 31.23	GPS	104		198	1		Station ID in Header ✓
			1849	BO		22.96	31.33							is incorrect Not JFS1
			1852	EN		22.98	31.39							"JFS11"
10	JFS10	ROS	1947	BE	42	48 20.27	124 24.59		90m		199	1		
			1950	BO		20.31	24.59			84				
			1953	EN		20.34	24.65							
10	JFS09	ROS	2043	BE	43	48 18.15	124 17.49		153		200	1		loop sd.
			2047	BO		18.19	17.61			147.				
10	JFS8	ROS	2135	BE	44	48 16.52	124 10.45		180		201-203	3		copied data files
			2139	BO		48 16.52	124 10.45			178				to zip disk
10	JFS7	ROS	2221	BE	45	48 13.05	124 03.85		145		204	1		
			2226	BO		13.79	03.66			139				
			2230	EN										
10	JFS6	ROS	2303	BE	46	48 11.98	123 57.22		68		205	1		
			2306	BO		11.97	57.18							
			2308	EN		11.97	57.15							

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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	
10	JFS5	ROS	2340		47	48	11.43	123	49.47		71						
			2343				11.39		49.28								
			2345				11.36		49.18								
11	JFS4	ROS	0020	BE	48	48°	12.12	123°	42.56		139		207	1	JE	spike @ 110m on down	
			0023	BO			12.05		42.50			133					
			0026	EN			12.01		42.53								
11	JFS3	ROS	0106	BE	49	48°	10.61	123°	34.89		83		208	1	JE	spike @ 40m on down	
			0109	BO			10.58		34.58			74				loop ← seaware froze 1st time down	
			0111	EN			10.58		34.49							SAL had to redo 1/2 cast	
11	JFS2	ROS	0147	BE	50	48°	10.51	123°	27.21		111		209	1	JE		
			0149	BO			10.51		27.22			104					
			0152	EN			10.52		27.24								
11	JFS1	ROS	0231	BE	51	48°	09.29	123°	19.95		57		210	1	JE		
			0233	BO			09.28		19.95			48					
			0234	EN			09.29		19.96								
11	JFM1	ROS	0307	BE	52	48°	12.83	123°	19.93		122		211	1		loop SAL	
			0310	BO			12.82		19.91			116					
			0313	EN			12.80		19.92								

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11	JFM2	ROS	0416	BE	53	48 13.69	123 27.22		147		212	1		
			0420	BO		13.67	27.21							
			0424	EN		13.65	27.22							
11	JFM3	ROS	0505	BE	54				156		213-214			Loop Salinity
				BO		48 13.65	123 35.16			150				0503:20
			0515	EN		13.65	123 35.19							Pinger signal faint
11	JFM4	ROS	0555	BE	55	48 15.09	123 42.54		176		215			↑
			0559	BO		15.18	42.62			165				Bottom Retreat
			0603	EN		48 15.24	123 42.68							
11	JFM5	ROS	0642	BE	56	48 15.82	123 49.82		166		216-217			Loop Sample = 217
			0647	BO		15.79	49.92			155				
			0652	EN		15.79	49.95							
11	JFM6	ROS	0728	BE	57	48 16.24	123 57.33		184		218-219			Midwater Warm Layer
			0733	BO		48 16.19	123 57.48			178				
			0739	EN		48°16.17	123°57.59							
11	JFM7	ROS	0814	BE	58	48 18.01	124 04.12		191		220-222			Loop 221.
			0818	BO		48 18.00	04.26							
			0823	EN										

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11	JFM 8	ROS	0901	BE	59	48 20.51	124 10.58			191.			223-225	3.		
			0905	BO		20.49		10.66								
			0911	EN		20.48		10.79								
11	JFM 9	ROS	0949	BE	60	48 22.41	124 17.54			211.			226			loop sal @ 09:51
			0954	BO		20.46		17.63				204.				
			0959	EN		22.50		17.76								
11	JFM 10	ROS	1048	BE	61	48 24.70	124 24.61			214.			227			
			1053	BO		24.79		24.69								
			1058	EN		24.87		24.74								
11	JFM 11	ROS	1201	BE	62	48 26.53	124 31.04			243			228	1	JE	removed weight from rosette
			1205	BO		26.48		31.02				238				
			1210	EN		26.44		31.00								
11	JFM 11	ROS	1252	BE	63	48° 30.76	124° 31.00			141			229	1	JE	loop sal @ 1253:54
			1255	BO		30.72		30.95				132				odd layer @ 90m
			1258	EN		30.69		30.89								no bottom trace on sonar.
11	JFM 10	ROS	1331	BE	64	48° 29.04	124° 24.34			121			230			
			1334	BO		28.99		24.26				116				
			1337	EN		28.95		24.20								

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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		
11	JFN9	ROS	1416	BE	65	48° 26.57	124° 17.49		113		231	1	JE	put weight back on rosette		
			1419	BO		26.57	17.49			108						
			1421	EN		26.57	17.48									
11	JFN8	ROS	1505	BE	66	48° 24.66	124° 09.48		105		232	1	JE	See note →		
			1509	BO		24.66	09.49			101						
			1511	EN		24.66	09.50									
11	JFN7	ROS	1547	BE	67	48° 23.12	124 04.12		117		233	1		Spike		
			1550	BO		23.10	124 04.16									
			1553	EN		23.09	04.19									
11	JFN6	ROS	1636	BE	68	48° 20.95	123 57.37		130		234	1				
			1638	BO						127						
			1641	EN		48 20.93	123 57.41									
11	JFN5		1732	BE	69	48 19.52	123 49.84		169		235			System locked up Spike		
			1736	BO		48 19.53	123 49.87			160				when pumps started		
			1740	EN		48 19.54	123 49.90							data "overflow" Restart		
	JFN4		1824	BE	70	48 18.19	123 42.45		166		236					
			1829	BO		18.11	42.35			160						
			1833	EN		18.09	42.31									

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cast at JFNB was taken .6 nm east of nominal position due to a mooring nearby.

Engineers adjusted pressure relief valve for Seawater pump. Flow at lab increased slightly.
Insufficient pressure to use de-air mount.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					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
11	JFN3	ROS	1928	BE	71	48 16.01	123 35.22		180		237			Race Passage Current 5H Ebb
			1933	BO		16.03	3529			175				West Wind ~20
			1936	EN		1604	3534							
11	JFN2	ROS	2044	BE	72	48 19.45	123 27.19		105		238-239			Shut down seawater loop
			2047			19.42	27.18							for repairs
			2050	EN		19.42	27.17							
	JFN 1.	ROS	2141	BE	73	48 22.52	123 19.72		111		240 -			Derek & Colin
			2144			2253	19.91							
			2147			2254	19.94							
12	20310	DRF	01:56	RE		48° 15.225	124° 11.970							recovered by small boat while next to ship - not grounded.
12	20311	DRF	0203	RE		?	?							recovered by small boat close to beach in deep bed.
12	20305	DRF	0234	RE		?	?							recovered by small boat

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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
12	JFC5	DRF	0451			48° 12.342		123° 44.837								20311 Deployed
	JFC4	DRF	0512			48 14.420		123 44.903								20310 1 Deployed
	JFC3	DRF	0526			48 16.515		123 45.095								20305 Deployed
12	EF13	ROS	1316	BE	74	48 56.51		125 10.69			108		241-248	8		calm, drizzle
			1319	BO		56.50		10 69				98				
			1328	EN		56 46		10.70								
12	EF12	ROS	1403	BE	75	48 57.98		125 10.51			98		249-256	8		calm, rain
			1405	BO		57.97		10.50				90				
			1413	EN		57 94		10 46								
12	EF11	ROS	1444	BE	76	48 59.10		125 11 01			85		257-263	7	JE	
			1446	BO		59 10		11.00				83				
			1452	EN		59 08		10.95								
12	EF10	ROS	1511	BE	77	48 59.83		125 11.22			102		264-271	8	JE	
			1514	BO		59.83		11.22				100				
			1522	EN		59.83		11.24								
12	EF9	ROS	1539	BE	78	49 0.10		125° 10.84			62		267-277	6	DJS	
			1541	BO		0.08		10.84								
			1549	EN		0.10		10.83								

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Ocean Sciences and Productivity Division

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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
12	EF08	ROS	1607	BE	79	49	0.67	125°	10.23		86		278-286	9	DJS	
			1609	BO			0.67		10.25							
			1618	EN			0.67		10.30							
12	EF07A	ROS	1641	BE	80	49	0.87	125°	9.85		134		287-295	9	DJS	
			1644	BO		49	0.89		9.87							
			1654	EN			0.86		9.86							
12	EF07	ROS	1716	BE	81	49°	1.23	125°	9.44		118		296-304	9	DJS	
			1719	BO			1.23		9.45							
			1730	EN			1.23		9.44							
12	EF06	ROS	1753	BE	82	49°	1.76	125°	9.17		148		305-320	16	DJS	
			1757	BO			1.77		9.14							
			1815	EN			1.82		9.11							
12	EF05A	ROS	1840	BE	83	49	2.15	125°	9.14		189		321-332	12		
			1844	BO			2.15		9.12							
			1858	EN		49	2.17	125	9.06							
12	EF05	ROS	1921	BE	84	49	2.53	125	9.15		204		333-353	21		
			1926	BO			2.51		9.15							
			1950	EN			2.49		9.16							

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INSTITUTE OF OCEAN SCIENCES

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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
12	EF04A	ROS	2012		85	4902.89	12509.14		192.		354-365	12	Bm	
			2017			02.90	09.13			186.				
			2028			02.88	09.11							
12	EF04	ROS	2046		86	4903.11	12508.54		56		366-371	6	Bm	
			2048							51				
			2053			03.12	08.55							
12	EF03A	ROS	2113		87	4903.83	12509.05		82		372-379	8	Bm	
			2115			03.84	12509.05							
						03.82	12509.04							
12	EF03	ROS	2134		88	4904.24	12509.39		101		380-391	12	Bm	
			2137			04.24	09.40			113.				
			2147			04.23	09.41							
	EF02A	ROS	2203		89	4904.51	12509.80		103		392-402	11	Bm	
			2207			4.51	9.78			99.				
			2216			4.52	9.76							
	EF02	ROS	2234		90	4905.01	12510.32		69.		403-409	7	Bm	
			2236			05				67				
			2242			05.03	10.30							

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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
	EFO1	ROS	2311		91	49°05.54	125°11.64		35		410-413	4		
			2313							32				
			2316			05 64	11.64							
13	AS	ROS	0210	BE	92	48° 59.59	124° 53.40		361		414-428	15		
			0217	BO		59.60	53.42			353				
			0233	EN		59.59	53.53							
13	JFA1	CTD	1709	BE	93	48 22.73	123 20.01		110			—	DJS	
			1712	BO		22.71	123 20.02			105				
			1714	EN										
13	JFA2	CTD	1735	BE	94	48 20.73	123 20.04		45					
			1736	BO		48 20.72	123 20.06			40				
			1737	EN		48 20.71	123 20.06							
13	JFA3	CTD	1809	BE	95	48 17.25	123 20.04		96					Program Crash on pump startup
			1813	BO		17.28	123 20.03			90				
			1815	EN										
13	JFA4	CTD	1842	BE	96	48 14.33	123 20.04		54					
				BO						44				
			1844	EN		48 14.34	123 20.06							

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INSTITUTE OF OCEAN SCIENCES

Year 2000					Month March			Ship Tully			Cruise I.D. 2000-02			
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
13	JFA5	CTD	1909	BE	97	48 11.87	123 20.04	GPS	94					
			1911	BO		11.87	20.06			86				
			1913	EN		11.87	20.07							
13	JFA6	CTD	1938	BE	98	48 09.20	123 20.02		54					Exit on pump start.
			1941	BO						50				Over Flow light on deck unit
				EN		09.24	20.06							"Reset"
13	JFB5	CTD	2052	BE	99	48 09.88	123 35.28		50				Bm	
			2054	BO		09.81	35.25			46				
			2055	EN		09.81	35.25							
13	JFB4	ROS	2120	BE	100	48 11.90	123 35.43		133		429-430	2.	Bm	
			2123	BO		48 11.98	35.61			130.				
			2127	EN		12.02	35.78							
13	JFB3	CTD	2207	BE	101	48 13.79	123 35.39		156				Bm	
			2210	BO		13.80	35.43			153				
			2214	EN		13.78	35.53							
13	JFB2	ROS	2237	BE	102	48 15.85	123 35.40		191.		431-434	4.		keep at 22:49
			2242	BO		15.87	35.58			189				
			2249	EN										

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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
13	JFB1	CTD	2310		103	48° 17.62	123° 35.13		156.					loop @ 2311.
			2314			17.57	35.14			153				
			2316			17.52	35.27							
14	JFC1	ROS	0002	BE	104	48° 20.18	123° 44.97		61		435-441	7.	JE	calm rain
			0004	Bo		20.15	44.97			55				
			0010	EN		20.07	44.99							
14	JFC2	ROS	0028	BE	105	48° 18.49	123° 45.05		172		442-452	11		loop sal @ 0030
			0032	Bo		18.52	44.97			168				
			0044	EN		18.52	44.87							
14	JFC3	ROS	0108	BE	106	48° 16.54	123° 45.02		182		453-463	11	JE	
			0114	Bo		16.53	45.10			175				
			0128	EN		16.62	44.99							
14	JFC4	ROS	0150	BE	107	48° 14.40	123° 44.99		176		464-474	11	JE	
			0154	Bo		14.41	44.99			165				
			0204	EN		14.42	44.95					10		
14	JFC5	ROS	0226	BE	108	48° 12.29	123° 44.84		138		475-484			
			0229	Bo		12.30	44.86			135				
			0239	EN		12.25	44.92							

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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
14	JFC6	ROS	0258	BE	109	48°	10.39	123°	44.92		51		485-490	6	JE	
			0259	BO			10.41		44.91			48				
			0304	EN			10.41		44.90							
14	JFD7	CTD	0423	BE	110						45					
			0424	BO		48	11.76	123	59.98			40				
			0425	EN		48	11.78	123	59.97							
14	JFD6	CTD	0449	BE	111	48	13.74	124	00.07		116					
			0453	BO			13.67		00.06			107				
			0455	EN			13.63		00.05							
14	JFD5	ROS	0516	BE	112	48	15.72	124	00.01		182		491-492	2		
				BO								175				
			0526	EN		48	15.62	124	00.00							
14	JFD4	ROS	0545	BE	113	48	17.70	124	00.03		190		493-495			High turbidity at bottom
				BO								177				
			0559	EN		48	17.82	123	59.85							
	JFD3	CTD	0621	BE	114	48	19.48	124	00.04		172					even higher turbidity
			0624	BO			19.43	123	59.97			166				Very uniform Temp
			0627	EN			19.46		59.90							

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INSTITUTE OF OCEAN SCIENCES

Year 2000					Month March			Ship Tully			Cruise I.D. 2000-02			
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
14	JF02	CTD	0653	BE	115	48 21.70	124 00.01		125					
				BO		48 21.72	123 59.97			121				
			0659	EN		21.71	59.90							
14	JF01	CTD	0720	BE	116	48 23.03	124 00.19		72					Shallowed up on station
			0723	BO						43				76m → 50
			0726	EN										2 casts, first with pump off.
14	JFE1	ROS	0858	BE	117	48 22.24	124 14.98		30		496-498	3		
				BO										
				EN										
14	JFE2	ROS	0930	BE	118	48 25.18	124 14.93		137		499-508	10	Bm	
										135				
			0943	EN		48 25.15	124 14.93							
14	JFE3	ROS	1039	BE	119	48 23.21	124 15.08		184		509-519	11	Bm	
			1043			48 23.20	124 15.16			181				
			1116			48 23.19	124 15.33							
14	JFE4	ROS	1123	BE	120	48 21.19	124 15.08		226		520-532	13	Bm	File header say JDE4
			1128	BO		21.14	15.11			221				↑
			1139	EN		21.06	15.22							

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- * At the beginning of the upcast #126 the program locked up.
- restarted Seasave no go
- turned deck unit off and then on but got zeros with decimal point "0.0.0.0.0."
- checked fuse and it was blown
- brought rosette back on board
- checked sea cable extension and it was singed at the armour cable connector it also had a pungent burnt odour.
- Dave Spear cleaned the connectors and regreased them.
- we reconnected and turned on the deck unit OK we got "0110"

DAILY LOG

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2000					Month	MARCH		Ship	TULLY				Cruise I.D.			2000-02	
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	
14	JFE5	ROS	1203	BE	121	48	19.27	124	15.13		212		533-545	13		str a little N due to traffic	
			1209	BO			19.27		15.29			204				Wind 25 kts W	
			1223	EN			19.39		15.53								
14	JFE6	ROS	1257	BE	122	48	17.56	124	15.09		172		546-556	11			
			1302	BO			17.56		15.20			166					
			1313	EN			17.60		15.45								
14	JFE7	ROS	1338	BE	123	48	16.43	124	14.94		103		557-564	8	JC		
			1341	BO			16.45		14.94			95					
			1348	EN			16.48		14.96								
14	JFF7	ROS	1549	BE	124	48°	21.00	124°	29.65		32		565-568	4		Pop @ 1545 30	
			1551	BO			20.98		29.58			25					
			1554	EN			20.96		29.50								
14	JFF6	ROS	1628	BE	125	48°	22.44	124°	30.11		105		569-576			pump start with argon restarted	
			1630	BO			22.44		30.15								
			1639	EN			22.44		30.20								
14	JFF5	ROS	1703	BE	126	48°	24.53	124°	30.06		214						
			1707	EN			24.52		30.07							- could not trip bottle - fuse blown - rosette cast aborted. - see note opposite	
				EN												grappled from ship	
14	20308	DRF	1801			48°	27.17	124°	33.16								

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14 20305 DRF 1449

Near Kydaka Pt.

recovered by zodiac.

Peter Link

for Anglica

363-6576

- Faxes? 0.5 or

- ~~Termination~~ but?

- possible log sheets

leave at 10:00 pm

- Van Truck

DAILY LOG

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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
14	JFF4	ROS	1832	BE	127	48° 26.73	124° 30.34		232		577-589	12		heave compensator used
			1837	BO		26.85	30.46							
			1851	EN		26.91	31.03							
14	JFF3	ROS	1919	BE	128	48° 28.51	124° 29.89		213		590-601	12		- pump down on killed
			1924	BO		28.52	29.83							- spike at 170m.
			1940	EN		28.59	29.65							- hit FS by mistake
14	JFF2	ROS	2010	BE	129	48 30.59	124 29.93		134.		602-611	10		
				BO										
				EN										
14	JFF1	ROS	2044		130	48 31.79	124 30.00		61		612-617	6.		
			2046			31.78	30.01			56				
			2051			31.78	30.06							
14	JFM10	ROS.	2159	BE	131	48 24.77	124 25.04		216		618-629	12.		
			2204			24.78	25.20			211				
			2217			24.82	25.24							
14	JFM9	ROS	2308		132	48 22.37	124 17.55		210		630-641	12.		
			2313			22.38	17.50			202.				
			2324			22.41	17.33							

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month March					Ship Tully					Cruise I.D. 2000-02		
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	
15	JFM 8	ROS	0008	BE	133	48	20.48	124°	10.62		191		642-652	11	JE		
			0012	BO			20.47		10.54			186					
			0024	EN			20.48		10.25								
15	JFM 7	ROS	0101	BE	134	48°	18.02	124°	3.92		189		653-663	11			
			0109	BO			17.87		3.86			183					
			0121	EN			17.61		03.66								
15	20311	DRF	0210			48°	17.48	123°	57.70							recovered from ship	
15	JFM 6		0227	BE	135	48°	16.28	123°	57.20		185		664-674	11		Loop @ 0228	
			0231	BO			16.30		57.20			183				pressure spike @ 70m gauge down	
			0243	EN			16.21		57.04								
15	JFM 5	ROS	0323	BE	136	48°	15.69	123°	49.62		167		675-685	11			
			0327	BO			15.66		49.63			163					
			0339	EN			15.65		49.59								
15	JFM 4	ROS	0419	BE	137	48°	14.88	123°	42.38		174		686-696	11		CTRL-PL4 killed, Seavue exited and restarted	
			0423	BO			14.87		42.42								
			0435	EN			14.84		42.41								
15	JFM 3		0514	BE	138	48	13.69	123°	34.82		156		697-706	10		Program locked at start exited + restarted twice!	
			0518	BO			13.72		34.75								
			0529	EN			13.82		34.49							Spike at 15m	

Cast type:

BOT = otter 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 time

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

DAILY LOG

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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
15	JFM2	ROS	0616	BE	139	48° 13.62	123° 27.26		146		707-716	10		
			0621	BO		13.67	27.20							
			0632	EN		13.78	27.10							
15	JFM1	ROS	0710	BE	140	48° 12.75	123° 19.86		119		717-725	9		
			0713	BO		12.76	19.92							
			0724	EN		12.78	19.96							
15	JFC6	CTD	0922	BE	141	48 10.41	123 44.95		53					loop sample
			0924	BO						48				removed weight
				EN										
15	JFC5	CTD	0948	BE	142	48 12.40	123 45.03		140					
			0952	BO		12.41	45.00			137				
15	JFC4	CTD	1016	BE	143	48 14.43	123 44.97		170					loop sample
			1021	BO		14.49	44.98			167				
	JFC3		1044	BE	144	48 16.51	123 45.06		181		726-728	3		
			1049	BO		16.55	45.03			180				
			1054	EN										

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[illegible]

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