

DAILY LOG

CRUISE
NUMBER

2001-10

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

17-21 APRIL 2001

VESSEL

VECTOR

PROJECT

JUAN DE FUCA STRAIT

STRAIT OF GEORGIE

Captain: _____
First Officer: _____

Second Officer: _____

Third Officer: _____

Mission Participants / Agencies:

Scientific Personnel: Party Chief: DIANE MASSON

[illegible]

Second leg of Mission: Party Chief:

[illegible]

Data logging computer: FS02

Data acquisition program: Season 2013 v 1.19

CTD deck unit make: Sea-Bird model: 11plus serial number: 0428

Primary CTD

Make: SEABIRD model: Dplus serial number: 0443

Primary temperature sensor serial number: 03P2106 Calibration date: 02 NOV 00

Primary conductivity sensor serial number: 041763 Calibration date: 31 OCT 00

Secondary temperature sensor serial number: 032023 Calibration date: 01 NOV 00

Secondary conductivity sensor serial number: 042128 Calibration date: 31 OCT 00

Other sensors: TEMPERATURE s/n: 333 DR 20-JUL-99

Other sensors: s/n: _____

Other sensors: s/n: _____

Other sensors: s/n: _____

Other sensors: s/n: _____

Secondary CTD

Make: SEAGARD model: 0550 serial number: 2374 Calibration date: 02-14-00
 Primary temperature sensor serial number: 1764 Calibration date: 28-SEP-00
 Primary conductivity sensor serial number: 2668 Calibration date: 07-14-00
 Secondary temperature sensor serial number: 2102 Calibration date: 28-SEP-00
 Secondary conductivity sensor serial number: 72445 s/n: 192 D 11-03-00
 Other sensors: _____ s/n: _____
 Other sensors: _____ s/n: _____
 Other sensors: _____ s/n: _____

Comments: _____ S/H. _____ 13 -0.0205

Re-did the underwater splice between casts 4 and 5. Try portside winch. Not enough power.
Go back to mid-ship winch.

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Year <u>2001</u>					Month <u>April</u>			Ship <u>Vector</u>				Cruise I.D. <u>2001-10</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
17	SI	ROS	16:33	BE	001	48 39.12	123 30.09		187					
	SI	ROS	16:38	BO	001	48 39.19	123 30.09			170	1-6	6		use big center winch.
	SI	ROS	16:51	EN	001	48 39.32	123 30.09							
	59	ROS	18:34	DE	002	48 37.79	123 14.66		230		7-20	14		
	59	ROS	18:39	BO	002	48 37.77	123 14.72			221				
	59	ROS	1900	EN	002	48 37.73	123 14.92							
17	60		1954	BE	3	48 33.88	123 12.75		297					
			2002	BO	3	48 33.79	123 12.63		287	279		Ø		
			2008	EN	3	48 33.75	123 12.62							
17	61		2046	BE	4	48 29.13	123 09.22		287					
			2052	BO	4	48 29.11	123 09.27			280		Ø		
			2058	EN	4	48 29.05	123 09.29							
	70		23:48	BE	5	48 19.27	123 43.25		150			Ø		some stops
			23:53	BO		48 19.29	123 43.23			142				on the way
			23:57	EN		48 19.31	123 43.23							↓ down
18	103	ROS	4:13	BE	6	48 33.04	124 42.94		120					↘ change back to
			4:17	BO		48 33.07	124 42.93			115				port winch
			4:20	EN		48 33.11	124 42.95							(new splice)

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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
18	102	ROS	4:59	BE	7	48 29.98	124 43.76		255		21-35	15		
			5:05	BO		48 29.95	124 43.66			252				
			5:27	EN		48 29.95	124 43.17							
18	101		0707	BE	8	48 25.77	124 45.17		264					Back to mid-ship
			0712	BO	8	48 26.06	124 45.06		234	224		Ø		WINDH
			0719	EN	8	48 26.32	124 44.87							
18	74		0807	BE	9	48 24.96	124 35.61		181					
			0810	BO	9	48 24.95	124 35.57		171	164		Ø		
			0814	EN	9	48 24.94	124 35.52							
18	75	ROS	0850	BE	10	48 28.14	124 32.62		225					
			0854	BO	10	48 28.11	124 32.54				36-49	14		
			0910	EN	10	48 28.02	124 32.29							
18	76		0945	BE	11	48 31.39	124 30.06		89					
			0947	BO	11	48 31.40	124 30.08			84		Ø		
			0949	EN	11	48 31.41	124 30.11							
	71	ROS	12:14	BE	12	48 22.18	123 59.40		112			/		
			12:16	BO		48 22.15	123 59.40			118				
			12:19	EN		48 22.15	123 59.44							

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18	72	ROS	12:55	BE	13	48	18.62	124	4.06		187		50-61	12		
			13:00	BO		48	18.70	124	4.21			180				
			13:10	EN		48	18.84	124	4.57							
18	73		13:50	BE	14	48	14.93	124	6.49		163					
			13:53	BO		48	14.96	124	6.50			155				
			13:57	EN		48	14.99	124	6.49							
18	68		15:46	BE	15	48	12.18	123	43.10		138					
			15:49	BO		48	12.20	123	43.23			135				
			15:53	EN		48	12.19	123	43.34							
18	69	ROS	16:19	BE	16	48	15.65	123	43.20		174		62-73	12		
			16:24	BO		48	15.72	123	43.33			175				
			16:40	EN		48	15.89	123	43.66							
18	70		17:04	BE	17	48	19.21	123	43.21		151					
			17:08	BO		48	19.27	123	43.21			148				
			17:12	EN		48	19.31	123	43.24							
18	105	ROS	19:05	BE	18	48	11.01	123	18.98		88					
			19:07	BO	18	48	11.01	123	18.97			81		Ø		
			19:09	EN	18	48	11.01	123	18.96							

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18	ADCP	ROS	1936	BE	19	48°13.97	123°17.96		123					
			1939	BO	19	48°13.96	123°17.95			118	74-83	10		
			1949	EN	19	48°13.92	123°17.86							
18	104		2034	BE	20	48°20.02	123°16.03		72					
			2036	BO	20	48°20.02	123°16.04			69		Ø		
			2038	EN	20	48°20.02	123°16.05							
18	67		2103	BE	21	48°22.81	123°18.05		108					
			2105	BO	21	48°22.83	123°17.99			98		Ø		
			2107	EN	21	48°22.85	123°17.94							
18	66		2140	BE	22	48°19.28	123°14.07		104					
			2142	BO	22	48°19.27	123°14.05			97		Ø		
			2145	EN	22	48°19.27	123°14.04							
18	65		2215	BE	23	48°15.82	123°09.77		127					Wrong name in the header: 62 instead of 65.
			2219	BO	23	48°15.81	123°09.77			122		Ø		
			2221	EN	23	48°15.79	123°09.77							
18	64	ROS	22:50	BE	24	48°12.83	123°5.87		108					
			22:52	BO	24	48°12.85	123°5.88			106				
			22:55	EN	24	48°12.87	123°5.89							

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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	
18	63	ROS	23:33	BE	25	48	14.62	122	58.57		152			/			
			23:36	BO		48	14.60	122	58.58			149					
			23:39	EN		48	14.57	122	58.59								
19	62	ROS	00:39	BE	26	48	22.82	123	02.65		147		84-94	11			
			00:42	BO		48	22.85	123	02.66			141					
			00:52	EN		48	22.91	123	02.70								
19	54		02:21	BE	27	48	26.52	122	44.34		78						
			02:23	BO		48	26.49	122	44.33			73					
			02:25	EN		48	26.46	122	44.32								
19	53		03:19	BE	28	48	33.11	122	45.03		62.5						
			03:21	BO		48	33.07	122	45.04			62					
			03:22	EN		48	33.02	122	45.04								
19	52			BE	29	48	38.86	122	43.33		83						
			04:12	BO		48	38.85	122	43.35			82					
			04:14	EN		48	38.83	122	43.34								
19	51	ROS	05:36	BE	30	48	46.73	122	51.61		162						
			05:40	BO		48	46.79	122	51.63			162					
			05:44	EN		48	46.85	122	51.62								

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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
19	56	ROS	0652	BE	31	48 46.48	123 01.45		215		95-108	14		
			0656	BO		48 46.58	123 01.33			205				
			0711	EN		48 46.85	123 00.88							
19	57		0759	BE	32	48 44.08	123 07.87		154					
			0802	BO	32	48 44.10	123 07.77			150		Ø		
			0806	EN	32	48 44.14	123 07.66							
19	58		0843	BE	33	48 42.98	123 14.18		331					very ≠ profiles ↓ ↑
			0850	BO		48 42.98	123 14.04			321		Ø		
			0857	EN		48 43.09	123 13.72							
19	47		1032	BE	34	48 49.26	123 06.19		187					
			1036	BO		48 49.23	123 06.16			179		Ø		
			1040	EN		48 49.20	123 06.15							
19	48		1114	BE	35	48 51.67	123 3.28		229			/		
			1119	BO		48 51.66	123 3.31			200				
			1123	EN		48 51.61	123 3.37							
19	49	ROS	1155	BE	36	48 55.04	122 59.68		132			/		
			1159	BO		48 55.07	122 59.71			126				
			1202	EN		48 55.07	122 59.70							

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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
19	50	ROS	12:29	BE	37	48	57.71	122	56.06							
		{	12:32	BO		48	57.73	122	56.03							hit bottom
			12:33	EN		48	57.74	122	56.02							(mud)
19	44			13:18	BE	38	48	56.81	123	5.94		121				no signal on depth sounder.
		{	13:21	BO		48	56.79	123	5.93			112				
			13:24	EN		48	56.75	123	5.90							
19	45			13:48	BE	39	48	53.82	123	8.41		128				
		{	13:51	BO		48	53.75	123	8.40			122				
			13:54	EN		48	53.71	123	8.39							
19	46		ROS	14:15	BE	40	48	51.33	123	10.77		180		109-120	12	
		{	14:20	BO		48	51.28	123	10.74			176				
			14:31	EN		48	51.16	123	10.71							
19	43			16:15	BE	41	49	00.22	123	30.41		195				
		{	16:19	BO		49	00.24	123	30.13			191				
			16:23	EN		49	00.27	123	30.12							
19	42		ROS	16:47	BE	42	49	01.77	123	26.20		322		121-136	16	
		{	16:55	BO		49	01.72	123	26.24			319				
			17:14	EN		49	01.57	123	26.41							

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Cast 46: SPIKES ON WAY DOWN
ERROR LIGHT BLINKING ON WAY DOWN AND WAY UP

CLOSED BOTTLE 1 AT 308 m

TRY CLOSING BOTTLE 2 @ 350 m

REALISED @ 300 m THAT BOTTLES ARE NOT CLOSING, NO COMMUNICATION TO PYLON

RE-START CAST 47: NOTHING

START CAST 48 @ 300 m, CLOSE 1 BOTTLE, BUT BOT 1 ALREADY CLOSED.

SO 250 m IS BOTTLE 2 ???

NUMBER OF CLOSED BOTTLES: 17 ???

Cannot close last bottles

CAST 49: Tried to close a few bottles @ bottom

When try the first time got comm error.

Said bottle 0 was invalid number.

Tried again it wrote "Bottle 1" in Sequential Bottle Fill Window,
but wrote "Bottle 2" on the screen and on the plot

Tried again it would not work at all.

The rosette came back on board with 4 bottles closed.

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Year 2001					Month April			Ship Vector			Cruise I.D. 2001-16			
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
19	41	ROS	17:45	BE	43	49 03.20	123 22.60		249					
			17:52	BO		49 03.18	123 22.80			247				
			17:57	EN		49 03.17	123 22.90							
19	37	ROS	1907	BE	44	49 13.65	123 20.71		216					
			1912	BO		49 13.71	123 20.74			207		Ø		
			1918	EN		49 13.74	123 20.77							
19	38		2003	BE	45	49 12.15	123 26.91		300					PRIM SAL SPIKE ~205 m way up
			2009	BO		49 12.25	123 26.97			289		Ø		
			2014	EN		49 12.35	123 27.01							
19	39	ROS	2052	BE	46	49 09.82	123 33.00		379			1		Spikes, error light blinking on deck unit Restart cast @ 300m Had to restart fence. (Bottle order?)
			2100	BO	48	49 09.91	123 33.08			368	137-153	12		
			2126	EN		49 10.31	123 33.18							
19	40		2203	BE	49	49 08.66	123 36.81		139					
			2206	BO		49 08.67	123 36.81			126		1		
			2209	EN		49 08.67	123 36.80							
19	26	ROS	2319	BE	50	49 14.35	123 50.90		268					Spikes.
			2324	BO		49 14.38	123 51.00		254	244		Ø		not able to turn pump off!
			2331	EN		49 14.42	123 51.08							tried closing S bottles, not able to

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20	27	ROS	00:20	BE	51	49	19.12	123	47.95		354					→ change to
			00:27	BO		49	19.16	123	47.89			346	154-169	16		port side small
			00:45	EN		49	19.22	123	47.74							winch
20	28	CTD	01:26	BE	52	49	24.12	123	45.28		134					
			01:29	BO		49	24.12	123	45.24			127				
			01:32	EN		49	24.11	123	45.19							
20	24	CTD	03:10	BE	53	49	30.32	124	06.03		426					
			03:18	BO		49	30.29	124	06.04			424				
			03:25	EN		49	30.27	124	06.02							
20	25	CTD	03:48	BE	54	49	27.68	124	07.49		298					wrong name in the
			03:54	BO		49	27.68	124	07.50			290				weather, 54 instead
			03:59	EN		49	27.70	124	07.53							of 25.
20	2	ROS	04:33	BE	55	49	24.07	124	09.24		280		170-184	15		Hit bottom
			04:38	BO		49	24.05	124	09.23			277				Grease from wire on
			04:55	EN		49	23.97	124	09.32							top of bottles.
20	1	CTD	05:28	BE	56	49	20.28	124	12.07		246					
			05:33	BO		49	20.26	124	12.02			240				
			05:37	EN		49	20.23	124	11.97							

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20	4	CTD	06:31	BE	57	49	24.50	124	22.08		343					
			06:37	BO		49	24.52	124	22.02			340				
			06:44	EN		49	24.51	124	21.99							
20	3	ROS	07:11	BE	58	49	26.61	124	20.22		325		185-200	16		
			07:17	BO		49	26.60	124	20.21			316				
			07:34	EN		49	26.58	124	20.35							
20	5	CTD	08:22	BE	59	49'	27.36	124'	30.81		318					
			08:27	BO		49'	27.34	124'	30.75			310		Ø		
			08:33	EN		49'	27.35	124'	30.72							
20	6	ROS	09:06	BE	60	49'	30.59	124'	27.78		195					
			09:40	BO		49'	30.58	124'	27.74			186	201-213	13		
			09:22	EN		49'	30.52	124'	27.64							
20	7	CTD	09:57	BE	61	49'	34.35	124'	24.12		354					
			10:04	BO		49'	34.33	124'	24.06			347		Ø		
			10:09	EN		49'	34.32	124'	24.04							
20	8	CTD	11:02	BE	62	49	39.22	124	32.37		342			/		
			11:08	BO		49	39.15	124	32.90			331				the wind is up.
			11:13	EN		49	39.09	124	32.83							

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2001					Month April			Ship VECTOR				Cruise I.D. 2001-10					
Year	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
	20	9	ROS	11:50	BE	63	49	35.51	124	38.25		171		214-225	12		
				11:53	BO		49	35.47	124	38.22			168				
				12:02	EN		49	35.38	124	38.17							
	20	10	CTD	12:56	BE	64	49	40.74	124	47.20		106					
				12:59	BO		49	40.71	124	47.16			94				
				13:02	EN		49	40.69	124	47.14							
	20	11	CTD	13:27	BE	65	49	42.40	124	43.42		300					
				13:33	BO		49	42.33	124	43.35			295				
				13:38	EN		49	42.26	124	43.29							
	20	12	ROS	13:57	BE	66	49	43.64	124	40.80		350		226-241	16		CTD on
				14:04	BO		49	43.55	124	40.71			340				
				14:17	EN		49	43.34	124	40.50							
	20	13	CTD	15:58	BE	67	49	55.30	124	55.21		234					Grease on trans Lens
				16:02	BO		49	55.26	124	55.17			232				
				16:06	EN		49	55.22	124	55.14							
	20	14	ROS	16:34	BE	68	49	52.96	124	59.64		314		242-257	16		
				16:40	BO		49	52.88	124	59.59			313				
				17:00	EN		49	52.63	124	59.40							

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

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year <u>2001</u>					Month <u>April</u>			Ship <u>Vector</u>				Cruise I.D. <u>2001-10</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
20	15	CTD	17:32	BE	69	49 51.45	125 01.60		116					
			17:35	BO		49 51.42	125 01.57			120				
			17:38	EN		49 51.40	125 01.54							
20	16	ROS	18:31	BE	70	49 57.65	125 08.88		153		258-268	11		
			18:34	BO		49 57.62	125 08.89			150				
			18:45	EN		49 57.56	125 08.77							
20	17	CTD	19:13	BE	71	49 58.81	125 04.25		266					
			19:19	BO		49 58.79	125 04.24			259		6		
			19:23	EN		49 58.80	125 04.25							
20	18	CTD	19:51	BE	72	49 59.20	124 58.90		144					
			19:54	BO		49 59.20	124 58.90			139		Ø		
			19:56	EN		49 59.20	124 58.90							
20	19	CTD	20:32	BE	73	50 01.19	124 52.94		275					
			20:37	BO		50 01.15	124 52.97			270		Ø		
			20:41	EN		50 01.14	124 52.95							
20	20	CTD	22:45	BE	74	49 47.20	124 32.28		300					
			22:50	BO		49 47.19	124 32.24			293		Ø		
			22:56	EN		49 47.19	124 32.20							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2001					Month APRIL			Ship VECTER				Cruise I.D. 2001-10		
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
21	22	CTD	00:18	BE	75	49 40.21	124 16.29		357					
			00:24	BO		49 40.14	124 16.27			350				
			00:30	EN		49 40.06	124 16.29							
21	39B	ROS	04:54	BE	76	49 09.81	123 32.99		380		269-285	17		
				BO		49 09.77	123 32.75			370				
			05:22	EN		49 09.51	123 32.39							
21	TM1	CTD	0732	BE	77	49 00.39	123 27.47		236					
			0737	BO		49 00.38	123 27.39			229		Ø		
			0741	EN		49 00.36	123 27.37							
21	TM2	CTD	0813	BE	78	49 01.14	123 25.23		312					
			0819	BO		49 01.13	123 25.24			305		Ø		
			0824	EN		49 01.14	123 25.26							
21	TM4	CTD	0921	BE	79	49 01.78	123 22.89		253					
			0926	BO		49 01.77	123 22.87			248		Ø		
			0930	EN		49 01.75	123 22.85							
21	TM5	CTD	1034	BE	80	48 54.20	123 15.95		200					
			1038	BO		48 54.17	123 15.94			195		Ø		
			1041	EN		48 54.16	123 15.97							

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