CRUISE NUMBER 0007

DAILY LOG

INSTITUTE OF OCEAN SCIENCES

OCEAN PHYSICS

DATE 25 April 2000

VESSEL Vector

PROJECT SoG / JdeF

Captain: _____ First Officer: _____

Second Officer: _____ Third Officer: _____

Cruise Participants / Agencies: IOS / OSAP

Scientific Personnel: Party Chief: Diane Masson 4-8 ____

Name	Watch	Cabin	Name	Watch	Cabin
Doug Anderson	8-12	____		____	____
Marie Robert	12-4	____		____	____
Joe Linguanti	12-4	____		____	____
Cindy Wright	8-12	____		____	____
Aland Ages	4-8	____		____	____

Second leg of cruise: Party Chief: _____ ____ ____

Name	Watch	Cabin	Name	Watch	Cabin

Data logging system: Unit no.: _____

Program Name: _____ Program version: _____

CTD deck unit make: _____ model: _____ serial no.: _____

Computer make: _____ model: _____ serial no.: _____

1st CTD make: Sea-Bird model: 911 plus serial no.: 0585

Temperature sensor — ~~model:~~ Primary _____ serial no.: 2663

~~Temperature coefficients: slope:~~ Secondary _____ ~~offset:~~ serial no.: 2668

Conductivity ~~sensor~~ — ~~model:~~ Primary _____ serial no.: 2399

~~Conductivity coefficients: slope:~~ Secondary _____ ~~offset:~~ serial no.: 2424

Pressure sensor range: _____ psi serial no.: 77511

coefficients: FSP: _____ dB offset: _____

Transmissometer model: WetLabs SeaStar serial no.: 333DR

coefficients: slope: _____ offset: _____

Comments: _____

Fluorometer serial # 2229 model Sea Point

DAILY LOG

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YEAR 2000 | MONTH April | SHIP Vector | CRUISE 0007 | PAGE 1 OF

DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
25	SItest	ROS	8:15 pm	BE	1	48 39.65	123 29.38		123m		1-9	9		Downcast = 0001
	SI03		8:25 pm	BO	2									Upcast = 0002
	SI03		8:40 pm	EN	2									
25	59	ROS	2240	BE	3	48 37 53	123 14.50		230		10-23	14		1m surface offset ?
25	59	ROS	2245	BO	3	48 37 51	123 14 45			221				
25	59	ROS	2302	EN	3	48 37.38	123 14.28							2.5 surface offset
25	60	CTD	23:34	BE	4	48 33.82	123 12.70		298	279				
			23:42	BO	4	48 33.70	123 12.58							
			23:48	EN	4	48 33.59	123 12.35							
26	61	CTD	00:45	BE	5	48 29.09	123 8.94		252					
			00:49	BO	5	29.00	8.81			241				
			00:54	EN	5	28.94	8.69							
26	73	CTD	0639	BE	6	48 14.85	124 06.50		162					missed 1st 20 m on downcast
			0641	BO	6	48 14.85	124 06 50			155				
			0645	EN	6	48 14.82	124 06 48							
26	72	ROS	0731	BE	7	48 18 60	124 04 08		190					
26	72	ROS	0735	BO	7	48 18 59	124 04 11			180	24-36	13		
26	72	ROS	0750	EN	7	48 18 59	124 04.18							

CAST TYPE - BOT - bottle 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; DE - deployment time; MR - messenger release; RE - recover mooring

POSITION CODE - RAD - RADAR; GPS - GLOBAL; LOR - LORAN

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR: 2000 | MONTH: APRIL | SHIP: VECTOR | CRUISE: 2000-07 | PAGE: 2 OF

DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
26	71	CTD	0837	BE	8	48 22 19	123 59 43		112					
26	71	CTD	0839	BO	8	48 22 20	123 59 43			106				
26	71	CTD	0841	EN	8	48 22 21	123 59 45							
26	76	CTD	10:49	BE	9	48 31.4	124 30.05		92					
26	76	CTD	10:52	BO	9	48 31.4	124 30.09			86				
26	76	CTD	10:55	EN	9	48 31.4	124 30.13							
26	75	ROS	11:27	BE	10	48 28.10	124 32.75		226		37-50	14		
			11:33	BO	10	48 28.02	124 32.93			216				
			11:48	EN	10	48 27.82	124 32.83							
26	74	CTD	12:23	BE	11	48 25.06	124 35.65		186					
			12:27	BO	11	48 25.06	124 35.64			177				
			12:32	EN	11	25.06	35.61							
26	101	CTD	13:52	BE	12	48 25.70	124 44.20		217					
			13:57	BO	12	48 25.74	124 44.19			206				
			14:01	EN	12	48 25.76	124 44.19							
26	102	ROS	14:40	BE	13	48 30.03	124 43.79			257				
			14:45	BO	13	48 30.04	124 43.75		246		51-64	14		
				EN	13	48	124							

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DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
26	103	CTD	15 40	BE	14	48 32.95	124 43.19		126					
26	103	CTD	15 43	BO	14	48 32.95	124 43.26			116				
26	103	CTD	15 47	EN	14	48 32.95	124 43.32							
26	70	CTD	1959	BE	15	48° 19.20	123° 43.30		150					
26	70	CTD	2002	BO	15	48° 19.18	123° 43.24			142				
26	70	CTD	2006	EN	15	48° 19.17	123° 43.24							
26	69	ROS	2053	BE	16	48° 15.64	123° 43.30		179					
26	69	ROS	2056	BO	16	48° 15.65	123° 43.28			170	65-76	12		
26	69	ROS	2109	EN	16	48° 15.68	123° 43.23							
26	68	CTD	2151	BE	17	48° 12.21	123° 43.08		140					
26	68	CTD	2153	BO	17	48° 12.24	123° 43.12			130	✓	✓		
26	68	CTD	2156	EN	17	48° 12.26	123° 43.15							
26	105	CTD	23:52	BE	18	48 11.03	123 19.09		80	17				
			23:54	BO	18	48 11.05	123 19.12			74				
			23:56	EN	18	48 11.05	123 19.16							
27	ADCP	ROS	00:26	BE	19	48: 14.00	123: 18.05		119		77-86	10		
			00:29	BO	19	48: 13.99	123: 18.05			113				
			00:37	EN	19	48: 13.97	123: 18.06							

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DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 2000 | MONTH April | SHIP Vector | CRUISE 2000 - 07 | PAGE 4 OF

DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
27	104	CTD	01:26	BE	20	48. 19.93	123. 16.07		75					Close bottles 1-3 to fix bottle 3
			01:28	BO	20	48. 19.93	123. 16.09			66				Lanyard too short
			01:30	EN	20	48. 19.94	123. 16.11							
27	67	CTD	1:59	BE	21	48. 22.75	123 17.99		110					Close bottles 1-3 to fix bottle 3
			2:02	BO	21	48 22.75	123. 17.94			102				lanyard too short, OK now.
			2:04	EN	21	48 22.79	123. 17.90							
27	66	CTD	2:42	BE	22	48 19.33	123. 13.99		102					
			2:44	BO	22	48 19.32	123. 14.00			98				
			2:47	EN	22	48 19.32	123. 13.99							
27	62	ROS	343	DE	23	48 22.90	123 02.68		151		97 - 107	11		
			345	BO	23	48 22.91	123 02.67			143				
			356	EN	23	48 22.95	123 02.62							
27	65	ROS	0503	BE	24	48 15 89	123 09.70		125		87 - 96	10		
			0507	BO	24	48 15 89	123 09 71			117				
			0517	EN	24	48 15 87	123 09 78							
27	64	CTD	0609	BE	25	48 12.80	123 05 .75		109					
			0611	BO	25	48 12 79	123 05 76			100				
			0613	EN	25	48 12 79	123 05 77							

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DAILY LOG — OCEAN PHYSICS — INSTITUTE OF OCEAN SCIENCES

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DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
27	63	CTD	0700	BE	26	48° 14.62	122° 58.65		158					
27	63	CTD	0704	BO	26	48° 14 63	122° 58. 65			151				
27	63	CTD	0708	EN	26	48° 14. 62	122° 58. 58							
27	54	CTD	0853	BE	27	48° 26. 64	122° 44. 31		81					
27	54	CTD	0855	BO	27	48° 26 65	122° 44. 30			72				
27	54	CTD	0857	EN	27	48° 26, 66	122° 44.29							
27	53	CTD	0950	BE	28	48° 33. 23	122° 45, 08		67					
27	53	CTD	0952	BO	28	48° 33. 25'	122° 45. 11			60				
27	53	CTD	0954	EN	28	48° 33. 26	122° 45. 12							
27	52	CTD	1040	BE	29	48° 38. 85	122° 43 29		86					
27	52	CTD	1043	BO	29	48° 38. 86	122° 43. 26			80				
27	52	CTD	1045	EN	29	48° 38. 86	122° 43. 24							
27	51	CTD	12:06	BE	30	48° 46.70	122° 51.61		165					
	51		12:10	BO	30	48° 46.71	122° 51.61			158				
	51		12:14	EN	30	48° "	122° 51.64							
27	58	CTD	14:08	BE	31	48 42.98	123 14.2		335					
	58		14:15	BO	31	48 43.00	123 14.21			327				
	58		14:21	EN	31	48 43.02	14.23							

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DAILY LOG — OCEAN PHYSICS — INSTITUTE OF OCEAN SCIENCES

YEAR 2000 | MONTH April | SHIP Vector | CRUISE 2000-07 | PAGE 6 OF

DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
27	57	CTD	1502	BE	32	48 44.02	123 08.12		162					
			1504	BO		48 44.03	123 08.13			152				
			1508	EN		48 44.01	123 08.13							
27	56	ROS	1531	BE	33	48 46.36	123 01.59		217					
			1556	BO		48 46.39	123 01.56			211	108-121	14		
			16:17	EN		48 46.45	123 01.27							
27	47	CTD	17:10	BE	34	48 49.34	123 06.27		187					
			17:13	BO		48 49.33	123 06.28							
			17:17	EN		48 49.35	123 06.28							
27	48	CTD	17.46	BE	35	48 51.71	123 03.30		232					
			17:50	BO		48.51.74	123 03.29							
			17:54	EN		48 51.75	123 03.21							
27	49	CTD	18:24	BE	36	48 55.01	122 59.60		134					
			18:26	BO		48 55.00	122.59.57							
			18:29	EN		48 55.00	122 59.56							
27	50	CTD	1858	BE	37	48 57.70	122.56.08		29					
27	50	CTD	1859	BO	37	48 57.70	122 56 08			21				
27	50	CTD	1900	EN	37	48 57.71	122 56.09							

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OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

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DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
27	44	CTD	1951	BE	38	48 56 74	123 05. 88		123					
27	44	CTD	1954	BO	38	48 56 73	123 05. 86			118				
27	44	CTD	1957	EN	38	48 56 73	123 05. 85							
27	45	CTD	2028	BE	39	48 53. 88	123 08. 32		130					
27	45	CTD	2031	BO	39	48 53. 85	123 08. 31			123				
27	45	CTD	2034	EN	39	48 53. 82	123 08, 27							
27	46	ROS	2102	BE	40	48 51, 36	123 10, 78		181					
27	46	ROS	2106	BO	40	48 51. 36	123 10. 82			173	122-133	12		
27	46	ROS	2118	EN	40	48 51. 32	123 10. 88							
27	43	CTD	22:55	BE	41	49 0,22	123 30.08		200					
27	43	CTD	23:01	BO	41	49 0,24	123 30,06			189				
27	43	CTD	23:03	EN	41	49 0,24	123 30,07							
	42	ROS	23:31	BE	42	49 1.82	123 26,21		322		134-149	16		
	42	ROS	23:37	BO	42	49 1.82	123 26.22			318				
	42	ROS	23:53	EN	42	49 1.80	123 26.19							
28	41	CTD	00:26	BE	43	49 3,23	123 22.40		245					
	41		00:30	BO	43	49 3,20	123 22,39			236				
	41		00:34	EN	43	49 3.16	123 22. 37							

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YEAR 2000 | MONTH April | SHIP Vector | CRUISE 2000-07 | PAGE 8 OF

DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
28	40	CTD	02:03	BE	44	49 8.63	123 36.78		145					
			02:57	BO		49 8.61	123 36.78			139				
			02 09	EN		49 8.60	123 36.79							
28	39	ROS	02:34	BE	45	49 9.83	123 33.01		379					
			02:41	BO		49 9.83	123 32.97			370	150-166	17		
			02:	EN		49	123							
28	38	CTD	03:35	BE	46	49 12.00	123 26.61		310					
			03.40	BO		49 12.02	123 26.61			297				
			03:45	EN		49 12.04	123 26.62							
28	37	CTD	04:24	BE	47	49 13.58	123 20.73		217					
			04:27	BO		49 13.58	123 20.69			210				
			04:31	EN		49 13.58	123 20.66							
28	How 4	ROS	06:47	BE	48	49 35.60	123 14.63		286					
28	How 4	ROS	06:51	BO	48	49 35.60	123 14.62			275	167-181	15		
28	How 4	ROS	07.10	EN	48	49 35.58	123 14.60							
28	26	CTD	1028	BE	49	49° 14.38	123° 50.85		257					
28	26	CTD	1033	BO	49	49° 14.38	123° 50.85			251				
28	26	CTD	10 38	EN	49	49° 14.30	123° 50.84							

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YEAR: 2000 | MONTH: APRIL | SHIP: VECTOR | CRUISE: 2000-07 | PAGE: 9 OF

DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
28	27	ROS	11:18	BE	50	49 19.13	123 47.96		354		182-197	16		bottle 4 did not close.
28	27	ROS	11:24	BO	50	49 19.11	123 47.93			345				(it did not trigger)
28	27	ROS	11:40	EN	50	49 19.16	123 47.84							
28	28	CTD	12:33	BE	51	49 24.17	123 45.32		136					
			12:37	BO	51	49 24.22	123 45.20			126				
			12:40	EN	51	49 24.28	123 45.23							
28	24	CTD	14:08	BE	52	49. 30.48	123. 6.01		425					
			14:17	BO	52	49. 30.44	123. 5.96			416				
			14:23	EN	52	49. 30.45	123. 5.87							
28	25	CTD	14:54	BE	53	49. 27.66	124. 07.51		301					→bottom depth must be greater - 2 m seas
			14:59	BO	53	49. 27.70	124. 07.46			298				
			15:04	EN	53	49. 27 70	124. 07. 46							
28	2	ROS	15:39	BE	54	49.24.080	124.09.30		283					
			15:44	BO	54	49.24 08	124.09 23			270	198-212	15		
			15:56	EN	54	49.24 14	124.09 25							
28	1	CTD	16:33	BE	55	49.20.31	124. 12.11		251					
			16:37	BO	55	49.20 32	124.12 07			240				
			16 41	EN	55	49.20.30	124.12.06							

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YEAR 2000 | MONTH APRIL | SHIP VECTOR | CRUISE 2000-07 | PAGE 10 OF

DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
28	4	CTD	17:34	BE	56	49 24 42	124 22 06		345					
			17:40	BO	56	49 24. 46	124, 22 02			336				
			17:47	EN	56	49 24. 46	124. 21. 99							
28	3	ROS	18:07	BE	57	49 26. 63	124 20. 31		327		213-227	15		BOT #4 dual fire
			18:14	BO	57	49 26. 61	124 20. 30			318				
			18:27	EN	57	49 26. 59	124 20. 41							
28	5	CTD	2129	BE	58	49° 27. 37	124° 30. 77		319					
28	5	CTD	2135	BO	58	49° 27. 34	124° 30. 80			308				
28	5	CTD	2139	EN	58	49° 27 34	124° 30. 81							
28	6	ROS	2211	BE	59	49° 30. 60	124° 27. 78		194					
28	6	ROS	2215	BO	59	49° 30 61	124 27 83				228-240	13		BOT #4 OK
28	6	ROS	2228	EN	59	49° 30 58	124° 27 93							
28	7	CTD	2300	BE	60	49. 34, 40	124. 24, 17		355					
28	7	CTD	2306	BO	60	49. 34. 39	124. 24, 18			347				
28	7	CTD	2312	EN	60	49. 34, 40	124. 24. 26							
29	8	CTD	0001	BE	61	49. 39, 3	124. 32, 99		342					
	8		0007	BO	61	49. 39. 32	124. 32, 99			331				
	8		0012	EN	61	49. 39, 31	124. 32, 98							

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DAILY LOG — OCEAN PHYSICS — INSTITUTE OF OCEAN SCIENCES

YEAR: 2000 | MONTH: April | SHIP: Vector | CRUISE: 2000-07 | PAGE: 11 OF

DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
29	9	ROS	00:47	BE	62	49. 35.55	124 38.3		170		241-252	12		
	9		00:51	BO	62	49 35.52	124 38.28			166				
	9		01:00	EN	62	49. 35.49	124 38.24							
29	10	CTD	01:50	BE	63	49. 40.68	124. 47.26		95					
			01:53	BO		49. 40.68	124. 47.26			88				
			01:55	EN		49. "	124. 47.27							
29	11	CTD	02:19	BE	64	49. 42.41	124. 43.37		303					
			02:24	BO		49. 42.39	124. 43.37			293				
			02:29	EN		49. 42.38	124. 43.38							
29	12	ROS	02:50	BE	65	49. 43.62	124. 40.92		357		253-270	18		Bot 17 Shipboard work took bot 18 as a duplic
			02:55	BO		49. 43.62	124. 40.79			351				
			03:19	EN		49. 43 61	124. 40 81							
29	13	CTD	04:47	BE	66	49 55 31	124 55.19		241					
			04:52	BO	66	49 55 30	124 55 21			233				
			04:55	EN	66	49 55 31	124 55 20							
29	14	ROS	05:26	BE	67	49 52 98	124 5963		317		271-285	15		
			05:31	BO	67	49 52 98	124 5964			311				
			05:54	EN	67	49 52 98	124 59 61							

CAST TYPE - BOT - bottle 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; DE - deployment time; MR - messenger release; RE - recover mooring

POSITION CODE - RAD - RADAR; GPS - GLOBAL; LOR - LORAN

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR: 2000 | MONTH: APRIL | SHIP: VECTOR | CRUISE: 2000-07 | PAGE: 12 OF

DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
29	15	CTD	06:26	BE	68	49.51.61	125.01.65		131					
			06:27	BO	68	49.51.62	125.01.65			118				
			06:30	EN	68	49.51.61	125.01.65							
29	16	ROS	0728	BE	69	49 57 71	125 08.77		159		286-296	11		Big wire angle couldn't always wait 30 sec
29	16	ROS	0732	BO	69	49 57 77	125 08 73			146				
29	16	ROS	0744	EN	69	49 57 61	125 08 53							
29	17	CTD	0813	BE	70	49 58.89	125 04.36		267					
29	17	CTD	0818	BO	70	49 58.95	125 04 41			261				
29	17	CTD	0823	EN	70	49 58.96	125 04.42							
29	18	CTD	0901	BE	71	49 59.19	124 58.89		151					
29	18	CTD	0904	BO	71	49 59.18	124 58 88			140				
29	18	CTD	0906	EN	71	49 59.19	124 58.89							
29	19	CTD	0955	BE	72	50 01.22	124 52.84		275					
29	19	CTD	1000	BO	72	50 01.18	124 52.80			266				
29	19	CTD	1004	EN	72	50 01.19	124 52.78							
29	20	CTD	12:12	BE	73	49.47.22	124 32.32		311					
			12:18	BO		49.47.18	124.32.30			303				
			12:22	EN		49.47.20	124.32.31							

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POSITION CODE - RAD - RADAR; GPS - GLOBAL; LOR - LORAN

DAILY LOG — OCEAN PHYSICS — INSTITUTE OF OCEAN SCIENCES

YEAR: 2000 | MONTH: April | SHIP: Vector | CRUISE: 2000 - 07 | PAGE: 13 OF

DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
29	22	CTD	13:40	BE	74	49 40.23	124. 16.34		358					
			13:46	BO		49. 40.21	124. 16.36			350				
			13:52	EN		49. 40.19	124. 16.33							

CAST TYPE - BOT - bottle 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; DE - deployment time; MR - messenger release; RE - recover mooring

POSITION CODE - RAD - RADAR; GPS - GLOBAL; LOR - LORAN