CRUISE NUMBER 9738

DAILY LOG

INSTITUTE OF OCEAN SCIENCES

OCEAN PHYSICS

DATE October 6 – 12, 1997

VESSEL VECTOR

PROJECT INLETS

Captain: Andrew Quoy First Officer:

Second Officer: Third Officer:

Cruise Participants / Agencies: IOS

Scientific Personnel: Party Chief: Dario Stucchi

Name	Watch	Cabin	Name	Watch	Cabin
Dario Stucchi					
Les Spearing					
Bernard Hinkley					
Marie Robert					
Elaine Baird					
Ann-Maria Irwin					

Second leg of cruise: Party Chief:

Name	Watch	Cabin	Name	Watch	Cabin

Data logging system: Unit no.: P17

Program Name: Seasave Program version:

CTD deck unit make: SeaBird model: 11 plus serial no.: 11P14262-0424

Computer make: Dell model: 4330 serial no.: 12TX5

1st CTD make: Seabird model: 911 plus 4C serial no.: 09P14262-0437

Temperature sensor model: serial no.:

coefficients: slope: offset:

Conductivity sensor model: serial no.: 1748 Co

coefficients: slope: offset:

Pressure sensor range: psi serial no.:

coefficients: FSP: dB offset:

Transmissometer model: SeaTech serial no.: 1921

coefficients: slope: offset:

Comments: Used con file CTD0437.con for Cons # 001 & 002

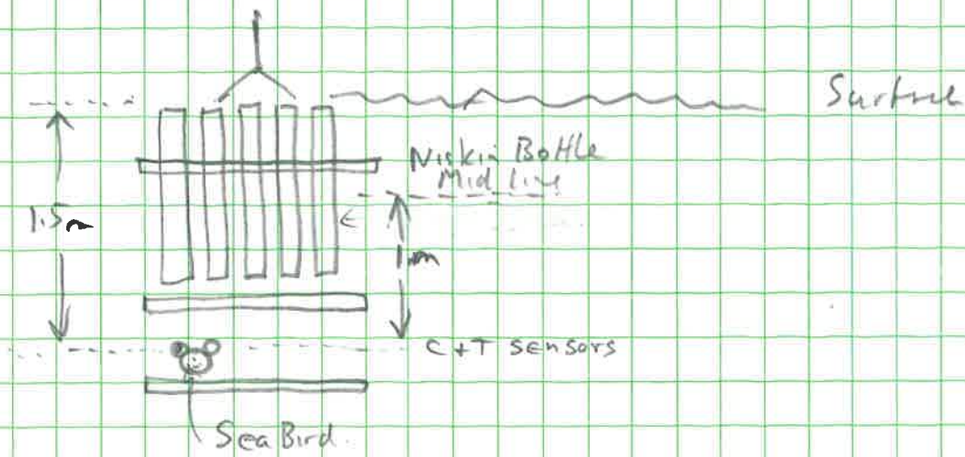
CTD0437A.con for Cons# 003

CTD0437.con for cnst# 004 to 095

Data processing

Cast 21 primary salinity no good difference of .8 compared to bottle salinity (CTD hit bottom)
secondary salinity OK. Down cast data OK.

cast 57 need O_2 done BM



A Hawkins

Data Processor

The starting depth of all CTD/rosette casts is 1.5m below the surface. (see diagram)

* Les connected Altimeter ST200/20 SN B/970.8293 to Sea Bird 911 plus.
I added the channel to the confile and renamed it CTD0437A.CON.

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DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE CTV	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
6	SI03	ROS		BE	001				228					Downcast
6	SI03	ROS		BO	002				228		#1 —#13	13		Upcast for samples
6	SI03	ROS		EN	002				229					
*	Seasave con file changed to CTD0437A.CON ↓													
6	PATBAY	ROS	2339	BE	003*	48° 39.27	123° 28.78	✓	73					Downcast to test altimeter
6	PB01	ROS	2343	BO	003	48° 39.29	123° 28.79							Does not work.
6	PB01	ROS	2345	EN	003	48° 39.29	123° 28.80							
+	Seasave con file changed back to CTD0437.CON ↓													
7	PA1	ROS	14:45	BE	004	49° 13.88	124° 49.05	✓	18	16				PUMP NOT WORKING AT SURFACE. WATER
7	PA1	ROS	14:48	BO	005	49° 13.89	124° 49.01	✓			14-17	4		TOO FRESH.
7	PA1	ROS	14:50	EN	005	49° 13.86	124° 49.01							
7	AØ	ROS	15:17	BE	006	49° 12.12	124° 49.05	✓	62		18-24	7		Pump stops again @ surface.
7	AØ	ROS	15:	BO	006	49° 12.	124° 49							Same hole for down and upcast.
7	AØ	ROS	15:25	EN	006	49° 12.06	124° 49.04							

CAST TYPE - BOT - bottle cast; CTD - ctd; MOR - mooring; ROS - rosette; NET - net haul; DRF - drifter; USW - sea water loop

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

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DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE CNV	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
7	A1	ROS	1552	BE	7	49°09.85	124°48.60	✓	115					Pump skid not working @ surface.
7	A1	ROS	1555	BO	8	49°09.80	124°48.59	✓		106	25-32	8		
7	A1	ROS	1601	EN	8	49°09.70	124°48.52							
7	PA13	ROS	1623	BE	9	49°07.65	124°48.48	✓	135					
7	PA13	ROS	1627	BO	10	49°07.61	124°48.43	✓		126	33-41	9		
7	PA13	ROS	1634	EN	10	49°07.58	124°48.43							
7	A4	ROS	1712	BE	11	49°02.66	124°51.16	✓	289					
7	A4	ROS	1718	BO	12	49°02.60	124°51.18	✓		275	42-55	14		
7	A4	ROS	1728	EN	12	49°02.48	124°51.18							
7	A5	ROS	1802	BE	13	48°59.48	124°53.53	✓	322					NO SAMPLES TAKEN.
7	A5	ROS	18:09	BO	13	48°59.42	124°53.61		210	200				Drifted away from stn stop @ 200 dBs, moving to
7	A5	ROS	18:13	EN	13	48°59.39	124°53.61							new position.
7	New A5	ROS	1905	BE	14	49°00.23	124°52.64	✓	309					
7	New A5	ROS	1915	BO	15	49°00.22	124°52.64	✓		300	56-70			
7	New A5	ROS	1929	EN	15	49°00.22	124°52.70							

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DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE (~~POSITION CODE~~ CNV)	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
7	A6	ROS	2008	BE	16	48° 58.74	124° 57.86	✓	198					
7	A6	Ros	2014	BO	17	48° 58.74	124° 57.91	✓		190	71-82	12		
7	A6	Ros	2022	EN	17	48° 58.70	124° 57.96							
7	A7	Ros	2057	BE	18	48°57.05	125°01.44	✓	258					
7	A7	Ros	2103	Bo	19	48°57.06	125°01.47	✓		243	83-95	13		
7	A7	Ros	2113	EN	19	48°57.11	125°01.47							
7	A8	Ros	2146	BE	20	48° 53.78	125°03.04	✓	217					
7	A8	Ros	2152	BO	21	48° 53.76	125°03.07	✓			96-107	12		Hit the bottom. 2 salinities very different.
7	A8	Ros		EN	21	48° 53.	125° 03.							
7	A9	Ros	2232	BE	22	48 51.48	125 08.16	✓						
	A9		2235	Bo	23	48 51.47	125 08.24	✓	146.		108-117	10		
7	A12		2348		24	48 58.04	125 07.88	✓	106.					
			2351		25	48 58.03	125 07.85	✓			118-125	8		

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DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE ~~CODE~~ CRV	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
8	EFF02		0043		26	4902.67	125 09.12	✓	204.					
			0048		27.	4902.72	125 09.14	✓		192,	126 - 137	12.		
8	EFF01		0122	BE	28	49 04.16	125 09.25	✓	121.					
	EFF01		0125	BO	29.	49 04.19	125 09.25	✓		107,	138 - 146	9.		
8	EFF01		0132	EN	29									
8	A13		0317		30	4854.13	125 12.94	✓	106,					
8	A13		0320		31	48 54.12	125 12.92	✓			147 - 155	9.		
8	A13		0325											
8	MUC6		2334		32	49 35.73	126 35.78	✓	112.		156 - 163	8		
			2337		33.	49 35.68	126 35.81	✓		104				
9	MUC5		0037		34	49 39.05	126 28.49	✓	212,					
			0043		35	49 39.08	126 28.59	✓			164 - 176	13.		

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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
9	TL41		0120		36	49 41.63	126 30.89	✓	259					
			0126		37	49 41.67	126 30.90	✓			177-189	13.		
9	MUC4		0231		38	4938.51	126 20.72	✓	290.					
			0238		39	49 38.34	126 20.84	✓		283	190-203	14.		
	MUC4		0248.		39									
	MUC 3		0331		40	49 38.99	126 14.47	✓	357					
			0338		41	49 38.92	126 14.50	✓			204-218	15		
	MUC 2		0422		42	49 40.22	126 09.51	✓	364.					
			0430		43	49 40.23	126 09.46	✓			219-233	15		
	M5km		0512		44	49 38.98	126 05.53	✓	170					
			0517		45	49 38.92	126 05.53	✓			234-244	11.		
9	MUC 1		0547		46	49 37.49	126 03.60	✓	129.					
			0551		47	49 37.45	126 03.66	✓			245-253	9.		

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9	OUTFALL	ROS	1651	BE	48	49° 40.14	126° 07.61	✓	307					
9	OUTFALL	ROS	1657	BO	49	49° 40.17	126° 07.72	✓	335	325	254-271	18		
9	OUTFALL	ROS	1709	EN	49	49° 40.14	126° 07.48		350					
10	Q2		0317		50	50 28.17	127 54.44	✓	224					
			0321		51	50 28.13	127 54.59	✓		207	272-283	12		
10	Q3		0416		52	5029.61	127 46.33	✓	206					
			0421		53	50 29.64	127 46.35	✓			284-295	12		
	Q4		0508		54	50 31.71	127 38.73	✓	121					
			0512		55	50 31.72	127 38.67	✓			296-304	9		
			0518											
	N22		0544		56	50 30.48	127 35.90	✓	153					
			0548		57	50 30.46	127 35.89	✓			305-314	10		

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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
10	N18	ROS	0620	BE	58	50°28.83	127°33.49	✓	194					
10	N18	ROS	0625	BO	59	50°28.82	127°33.44	✓		181	315-326	12		
10	N18	ROS	0633	EN	59	50°28 79	127°33.41							
10	20	ROS	0701	BE	60	50° 26.96	127° 31.55	✓	194					
10	20	ROS	0706	BO	61	50° 26 93	127° 31 56	✓		184	327-338	12		
10	20	ROS	0714	EN	61	50° 26 90	127° 31. 58	ok						
10	17	ROS	0738	BE	62	50° 25.69	127° 30.52	✓	172					
10	17	ROS	0743	BO	63	50° 25.73	127° 30 50	✓		160	339-348	10		
10	17	ROS	0750	EN	63	50 25. 67	127° 30. 49	ok						
10	14	ROS	0819	BE	64	50°24.35	127°29.45	✓	133					
10	14	ROS	0823	BO	65	50° 24. 31	127°29. 44	✓ ok		121	349-360	12		
10	14	ROS	0830	EN	65	50° 24. 28	127° 29. 42							

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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
10	11	ROS	0900	BE	66	50° 23. 69	127°28. 56	✓	90					
10	11	ROS	0903	BO	67	50° 23, 68	127° 28. 51	✓ ok		77	361-370	10		
10	11	ROS	0908	EN	67	50° 23 69	127°28. 51							
10	8	ROS	0939	BE	68	50° 23.00	127°27. 54	✓	44					
10	8	ROS	0941	BO	69	50° 22. 99	127° 27 50	✓ ok		32	371-377	7		
10	8	ROS	0945	EN	69	50° 22. 99	127°27 50							
10	5	ROS	1015	BE	70	50°22.00	127°26 61	✓	55					
10	5	ROS	1017	BO	71	50° 21. 98	127° 26. 58	✓ ok		42	378-385	8		
10	5	ROS	1021	EN	71	50° 21 96	127° 26. 63							
10	2	ROS	1043	BE	72	50° 21. 01	127° 26. 39	✓	35					
10	2	ROS	1044	BO	73	50° 20. 98	127° 26, 40	✓ ok		26.2	386-392	7		
10	2	ROS	1047	EN	73	50° 20. 95	127° 26 42							

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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
11	GIO3	ROS	1643	BE	74	49° 10.31	123° 33.47	✓	374					
11	GIO3	ROS	1650	BO	75	49° 10.45	123° 33 59	✓ ok		367	393 – 406	14		
11	GIO3	ROS	1702	EN	75	49° 10 58	123° 33.67		371					
11	GIO1	ROS	1853	BE	76	48° 58.49	123° 16. 55	✓	165					
11	GIO1	ROS	1857	BO	77	48° 58.51	123° 16. 59	✓ ok		155	407 · 415	9		
11	GIO1	ROS	1903	EN	77	48° 58.53	123° 16. 64		167					
11	MIO1	ROS	1953	BE	78	48° 52. 56	123° 14. 73	✓	156					
11	MIO1	ROS	1956	BO	79	48° 52. 64	123° 14. 77	✓		153	416 · 418	3		Salinities only
11	MIO1	ROS	2000	EN	79	48° 52. 70	123° 14. 82	✓						
11	MIO2	ROS	2019	BE	80	48° 53 . 91	123° 12. 61	✓	140					
11	MIO2	ROS	2022	BO	81	48° 53. 94	123° 12. 69	✓		135	419 · 421	3		Sal. only
11	MIO2	ROS	2026	EN	81	48° 53. 94	123° 12. 78	✓	143					
11	MIO4	ROS	2051	BE	82	48° 56. 12	123° 09. 58	✓	121					
11	MIO4	ROS	2053	BO	83	48° 56. 10	123° 09. 61	✓		106	422	1		Sal. only
11	MIO4	ROS	2055	EN	83	48° 56. 10	123° 09. 64	✓						

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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
11	MI05	ROS	2110	BE	84	48°57.05	123°08.27	✓	114					
11	MI05		2113	BO	84	48°57.03	123°08.29			98		ø		
11	MI05		2115	EN	84	48°57.03	123°08 30		114					
11	MI06		2131	BE	85	48°57.96	123°07.05	✓	128					
11	MI06		2136	EN	85	48°57.91	123°07.11			115		ø		
11	MI07		2152	BE	86	48°58.81	123°05.91	✓	54					
11	MI07		2155	EN	86	48°58.88	123°05.91			43		ø		
	SI08		2237	BE	87.	4856.44	122 58.95	✓	41.					kelp on Rozette.
			2239	EN								ø		
11.	SI07		2251	BE	88	48 55.54	123 00.25	✓	131.					
			2256	EN								ø		
11.	SI06	ROS	2313	BE	89	48 54.53	123 01.45	✓	155					
			2318	EN								ø		

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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
11	SI05	ROS	2331.		90	48 53.66	123 02,59	✓	166.		423	1.		
		1	2337											
11.	SI04		2349		91	4852.73	123 03,83	✓	160.		424.	1.		
			2355.											
12.	SI02		0036		92.	4850.42	123 06,90	✓	218		425-428	4.		
			0049			4850.30	123 07.05							
12	SI01		0107		93	4849.18	123 08,68	✓	115			ϕ		
			0112							108.				
12	D6A		0218		94.	4845,83	123 02,34	✓	239.					
			0229								429-432	4.		
12	D08A	ROS.	0324		95	48 42.17	123 15,14	✓	357.		433-438	6		
			0339											

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