

CRUISE
NUMBER

9931

DAILY LOG #1 of 2
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

26 July - 11 August 1999

VESSEL

VECTOR

PROJECT

BC INLETS

Captain: Mark Sower First Officer: Darren Morley
Second Officer: Dale Hansen Third Officer: _____
Cruise Participants / Agencies: IOS
Scientific Personnel: Party Chief: Dario Stucchi

Cruise Participants / Agencies:

Scientific Personnel: Party Chief: Dario Stucchi

Name	Watch	Cabin	Name	Watch	Cabin
Dario Stuechi	07-15	Starboard	Cabin		
Bernard Minkley	15-23	Port	Cabin		
Les Spearing	15-23	Port	Cabin		
Elaine Baird		Lady	Sci. Cabin		
Lauren Ross	15-23	Chief	Sci Cabin		
Tara Ivanochko	07-15	Chief	Sci. Cabin		
Lizzie Williams	07-15	Lady	Sci Cabin		

Second leg of cruise: _____ Party Chief: _____

[illegible]

Data logging system: Unit no.: **F502 - Touch Computer**

Program Name: Seasave Program version: 4.236

CTD deck unit make: SBE model: 11 Plus serial no.:

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

1st CTD make: Seabird model: 911+ serial no.: 0550

Temperature sensor

coefficients: slope: _____ offset: _____

Conductivity sensor	model:				
	serial no.:	P-1766			
		2133			

coefficients: slope: _____ offset: _____

Pressure sensor range: 0 - 10,000 psia serial no.: 75636

coefficients: ESP: dB offset:

Transmissometer model: serial no.: 192 D

coefficients: slope: offset:

Comments: Water Fluorometer SN W515-097

CN FILE: "0550CTD.CON"

Vector - W, Program Delivery, 26/07/1999 - 23/08/1999

PAGE

ID: 4002000

JUN-24-99 11:29 FROM: FILE1 HUMAN RESOURCE

	Position Title	Position No.	Level	Dates		Name	Training
1	C.O.	0021015	SO-MAO-08	26/07/1999	☒ 23/08/1999 ☒ 20/09/1999	☒ Somer MA	MARK
2	Deck Officer	0021841	SO-MAO-06	26/07/1999	☒ 23/08/1999 ☒ 20/09/1999	☒ Morley DJ	DARREN
3	Deck Officer	0021287	SO-MAO-03	26/07/1999	☒ 23/08/1999 ☒ 20/09/1999	☒ Hansen DR	DALE
4	Boatswain	0021222	SC-DED-05	26/07/1999	☒ 23/08/1999 ☒ 20/09/1999	☒ Henderson JD	JAMIE
5	Leading Seaman	0021979	SC-DED-03	26/07/1999	☒ 23/08/1999 ☒ 20/09/1999	☒ Carroll AM	MARK
6	Deckhand	0021199	SC-DED-02	26/07/1999	☒ 23/08/1999 ☒ 20/09/1999	☒ Stammy M LEIGHTON, R.	RYAN
7	Deckhand	0021198	SC-DED-02	26/07/1999	☒ 23/08/1999 ☒ 20/09/1999	☒ Dois CV CAMPBELL, B	BRUCE
8	Deckhand	0021197	SC-DED-02	26/07/1999	☒ 23/08/1999 ☒ 20/09/1999	☒ Henriksen J	JON
9	Engineer	0021345	SO-MAO-07	26/07/1999	☒ 23/08/1999 ☒ 20/09/1999	☒ Bedell KL	KEN
10	Engineer	0021310	SO-MAO-06	26/07/1999	☒ 23/08/1999 ☒ 16/09/1999	☒ Schute DH	DEREK
11	Chief Cook	0021289	SC-STD-05	26/07/1999	☒ 23/08/1999 ☒ 20/09/1999	☒ Cambridge DF VICE Cadeni	
12	Steward	0003973	SC-STD-01	26/07/1999	☒ 23/08/1999 ☒ 20/09/1999	☒ Anderson DD	DENNIS

Carrol Medic A

Flynn to Tanu, Schute from Narwhal

Anderson from leave

Fisher and Willis contact HRU

WESTON, A

AL

-32,234

DRAFT

Cam Cadeni

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		JULY		VECTOR		9931								
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	S3	ROS			001				225		1-12	12		
	Je10	ROS	1614	BE	02	50 11.36	123 57.11		273		13-25	13		Phytoplankton sample at Surf + 5m.
			1621	BO	02	50 11.39	123 57.06							
			1643	EN	02	11.39	57.10							
	Je9	ROS	1723	BE	03	50° 8.64	123 50.49		360		26-39	14		
			1731	BO	03	8.58	50.47							
				EN	03									
	Je8	ROS	1821	BE	04	50 05.30	123 46.67		470		40-54			
				BO	04									
				EN	04									
	Je7	ROS	1927	BE	05	50° 2.47	123° 51.27		538		55-71	17		Nets, Phyto + Chlorophyll
			1937	BO	05	2.45	51.29							
				EN	05									
	Je6	ROS	2047	BE	06	49° 59.05	123 59.29		548		72-87	16		Spila at 125m upcast
			2057	BO	06	59.00	59.36							
			2122	EN	06	58.85	59.46							

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW -

sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

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27	Je5	ROS	2159	BE	007	49 54.31	123 55.43		658.		88-103	16		*Removed fluorometer*
			2211	BO	007	49 54.30	123 55.32							
				EN	007									
27	Je4	ROS	2310	BE	008	49 49 47	123 54 23		671	660	104-120	17		pressure spike
			2329	BO	008	49 49 46	123 54 11							
			2350	EN	008	49 49 49	123 54 22							
28	Je3	ROS	0036	BE	009	49 48 61	124 02 48		681.	668	120-137	17		
			0049	BO	009	49 48 67	124 02 55							
			0116	EN	009	49 48 57	124 02 56							
28	Je2	ROS	0154	BE	010	49 46.28	124 09.31		609		138-153	16		pressure spiked 350db
			0207	BO	010	49 46.22	124 09.22			597				
				EN	010									
28	JE1	ROS	0317		11	49 42.30	124 14.51		268		154-166	13		fluorometer installed
			0322		11	49 42.29	124 14.51			258.				
			0339		11									

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28	Bu8	ROS	1410	BE	012	50° 53.33	124° 50.68		264		167-179	13		Phyto samples	
			1415	BO	012	53.34	50.62								
			1432	EN	012	53.31	50.42								
28	Bu7	ROS	1505	BE	013	50° 49.86	124° 53.50		351		180-193	14			
			1513	BO	013	49.89	53.32								
			1533	EN	013	49.95	52.99								
28	Bu6	ROS	1617	BE	014	50° 45.31	124° 54.01		470		194-208	15			
			1626	BO	014	45.34	53.99								
			1653	EN	014	45.37	53.94								
28	Bu5	ROS	1728	BE	015	50° 40.68	124° 53.17		567		209-225	17		Full sampling; DO, Nut, chl, & Phyto	
			1739	BO	015	50 40.58	124 53.23								
				EN	015										
28	Bu4	ROS	1847	BE	016	50 35 29	124 54 22		639	625	226-242	17		Removed WetLab fluorometer	
			1904	BO	016	50 35 23	124 54 13								
			1934	EN	016	50 35.25	124° 54.12								
28	Bu3	ROS	2033	BE	017	50° 31.69	124° 57.96		650		243-259	17			
			2046	BO	017	31.70	58.06								
			2113	EN	017	31.71	58.07								

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28	Bu2	ROS	2155	BE	018	50° 28.06	125° 4.59		654		260-276	17			
			2209	BO		27.93	04.67								
			2237	EN		28.06	04.57								
28	Bu1	ROS	2317	BE	019	50° 22.16	125° 04.78		603		277-293	17			
			2328	BO		22.20	04.78								
			2350	EN		22.18	04.83								
														* re-installed Wet Labs	
									215 268					Fluorometer	
29	KN11	ROS	1408	BE	020	54° 02.48	125° 34.01				294-306	13			
			1414	BO	020	2.47	34.01								
			1430	EN	020	2.44	33.91								
29	KN9	ROS	1526	BE	021	50 54.31	125 32.85		414		307-320	14			
			1535	BO	021	54.32	32.87								
			1558	EN	021	54.32	32.89								
29	KN7	ROS	1657	BE	022	50° 48.09	125° 37.34		519		321-335	15			
			1707	BO		48.12	37.57								
				EN											

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29	KN5	ROS	1836	BE	023	50 41.63	125 47.02		394.		336-350	15		Full sampling; DO, NUTS	
			1845	BO	023									Phy/Ino Chlorophyll	
			1909	EN	023										
29	KN4	ROS	1951	BE	024	50° 40.78	125° 56.11		449		351-365	15			
			2000	BO	024	40.79	56.12								
				EN	024										
29	KN2	ROS	2139	BE	025	50° 39.30	126° 10.94		186		366-375	10.			
			2143	BO		39.30	10.96								
			2157	EN		50 39.30	126 10.98								
29	KN1	ROS	2255	BE	026	50 38.11	126 25.32		258		376-388	13			
			2300	BO		50 38.11	126 25.36								
			2315	EN											
29	PE		2350	BE	27	50 40.26	126 29.02		47		389-396	8.		Port Elizabeth	
			2358	EN	27					40					
30	CB		0127	BE	28	50 41.47	126 37.51				397-403	8			
			0135	EN	28	50 41.48	126 37.49			31.					

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30	WP	ROS	0253	BE	29	50 47.02	126 41 47		146		404-414	11		Wicklow Pt. Farm
			0256	BO						119.				no sample # 415, 416 + 417.
			0306	EN		50 47.04	126 41 46							
30	DH	ROS	0344	BO	30	50 47.80	126 35.17		80.		418-426	9		Deep Harbour Farm
			0349	BO										
			0357	EN										
30	BG	ROS	0442	BE	31	50 47 83	126 30 00		165	153	427-438	12		Burdwood Farm
			0446	BO		50 47 83	126 30 00							
			0502	EN		50 47 83	126 30 10							
30	KIN3	ROS	1418	BE	032	50 54.91	126° 14.74		197		439-450	12		
			1421	BO	032	50 54.91	126° 14.74							
			1438	EN	032									
30	KIN2	ROS	1517	BE	033	50° 55.51	126° 23.23		376		451-464	14		
			1525	BO		55.52	23.35							
				EN		55.56	23.59							

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30	BS	ROS	1617	BE	034	50° 52.91	126° 25.99		132		465-473	9		
			1620	BO	034	52.90	26.01							
				EN	034									
30	KIM1	ROS	1731	BE	035	50° 53.60	126° 34.48		475		474-489	16		
			1740	BO		53.56	34.49		464					
				EN		50 53.50	126 34.52							
30	BE 3	ROS	0215	BE	036	51 07 86	127 22 15	✓	293		490-502	13		
			0222	BO		51 07 85	127 22 21		273					
			0237	EN		51 07 86	127 22 17							
30	BE 5	ROS	0333	BE	37	51 07 20	127 08.64	✓	270		503-516	14		pressure spike
			0339	BO		51 07 20	127 8 69		264					
			0356	EN		51 07 19	127 8 68							
30	BE 7	ROS	0448	BE	38	51 06.31	126 55.80	✓	254		517-529	13		pressure spike
			0454	BO		51 06.30	126 55.76							
			0510	EN		51 06.25	126 55.70							

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31	SE8	ROS	1408	BO	039	51	10.96	126° 39.52	✓	139		530-538	9			
			1412	BE			10.95	39.52			131.					spike at 70m
			1423	EN			10.88	39.53								
31	SE7.5	ROS	1450	BO	040	51°	8.15	126° 41.50	✓	371		539-552	14			spiked at 125m & 70m
			1458	BE			8.11	41.56			364.					
			1519	EN			8.05	41.70								
31	SE7	ROS	1546	BE	041	51°	5.98	126° 45.03	✓	277		553-565	13			
				BO			5.95	45.10			292.					
			1612	EN			5.91	45.16								
31	FS1	ROS	1654	BE	042	51	2.22	126 42.97	✓	244		566-578	13			
			1700	BO							233.					
			1718	EN												
31	Se6	ROS	1806	BE	043	51°	4.29	126° 52.39	✓	538		579-594	16			spike at 480
			1817	BO			4.32	52.47			527.					
			1846	EN			4.42	52.54								
31	SE5		1922	BE	44.	51°	4.30	127° 0.73	✓	615		595-610	16.			spikes 100m, 178, 213,
			1933	BO			4.30	0.79			589					
			2002	EN												

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31	SE4	ROS	2035	BE	045	51° 3.14	127° 8.00	✓	532			611-625	15			
			2045	BO	045	3.11	8.06				534					Splice 390
			2111	EN	045	3.06	8.31									
31	SE3	ROS	2147	BE	046	51° 2.85'	127° 15.46'	✓	444			626-640	15			
			2155	BO		51 02.85	127 15.46				435					
				EN												
31	SE2	ROS	2257	BE	047	51 03 50	127 23 45	✓	98			641-648	8			
			2300	BO		51 03 50	127 23 47				86					
			2309	EN		51 03 50	127 23 48									
1/8	Bur15	ROS	1415	BE	048	52° 3.19	126° 42.26	✓	220			649-660	12			splice at 200, 150
			1419	BO		3.18	42.23									
				EN												
1/8	Bur14	ROS	1515	BE	049	52° 7.42	126° 47.15	✓	293			661-673	13			splice at 20
			1521	BO		7.42	47.15									
			1541	EN		7.53	47.27									
1/8	Bur13	ROS	1623	BE	050	52° 11.49	126° 54.41	✓	278			674-686	13			
			1629	BO		11.53	54.34									
			1645	EN		11.52	54.42									

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1/8	BUR12	ROS	1729	BE	51	52°	17.20	126°	57.98		455		687-701	15			
			1739	BO	51		17.26		57.99								
			1800	EN	51		17.43		57.99								
1	BUR11	ROS	1858	BE	52	52	22.79	126	49.95		264		702-715	14			
			1904	BO	52		22.80		49.94								
			1920	EN	52		22.7		49.95								
1	BUR8	ROS	2045	BE	53	52°	19.75	127°	10.88		568		716-731	16		spike at 330	
			2056	BO	53		19.78		10.83								
			2120	EN	53		19.79		10.82								
1	BUR6	ROS	2216	BE	54	52	14.29	127	22.62		600		732-748	17		Full sampling	
				BO													
				EN													
1	BUR4	ROS	2358	BE	55	52	8.19	127°	35.22		442		749-763	15			
2			0006	BO			8.26		35.19								
			0027	EN			8.24		35.23								
2	BUR2	ROS	0133	BE	56	51	58 66	127	40 84		243		764-775	12		pressure spike @ 100m	
			0138	BO		51	58 66	127	40 78		237						
			0155	EN		51	58 64	127	40 85								

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BOT -
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MOR -bottle cast
cid
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW -

sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

YEAR		MONTH		SHIP		CRUISE		PAGE		OF						
1999		Aug		Vector		9931										
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
2	BUR1	ROS	0254	BE	57	51 54.16		127 56.82			352.		776-790	15		
				BO												
				EN												
2	Do1	ROS	15.01	BE	58	53° 22.36		129° 11.59			458		790-806	17		
			15 10	BO		22.38		11.55								
			1531	EN		22.44		11.45								
2	Do2	ROS	1610	BE	59	53 26.86		129 12.41			398		807-820	14		spila c sam.
			1618	BO		26.81		12.49								
			1635	EN		26.84		12.50								
2	Do3	ROS	1709	BE	60	53 31.49		129 12.25			346		821-834	14		
			1715	BO		31.55		12.26								
			1731	EN		31.65		12.10								
2	Do4	ROS	1812	BE	61	53 37.45		129° 12.31			320		835-847	13		sp. loc 75
			1818	BO		37.44		12.27								
				EN												

DAILY LOG

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YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1999			Aug			Vector			99-31						
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
2	D05	ROS	1903	BE	62	53°	40.50	129° 7.36		400		848-861	14		spike 285, 125
			1910	BO			40.45	7.34							
			1931	EN			40.50	7.34							
2	D06	ROS	2011	BE	63	53°	44.30	129° 1.37		374		862-875	14		
			2018	BO			44.30	1.37							
				EN											
2	G11	ROS	2131	BE	64	53°	50.82	128° 58.20		195		876-887	12		spike 100
			2135	BO			50.82	58.19							
				EN											
2	D07	ROS	2243	BE	65	53	47.26	128 53.34		392		888-902	15		
			2253	BO			5347.25	128 53.27		382					
			2310	EN											
2	D08	ROS	2340	BE	66										
2			2349	BO		53	50 71	128 48 10		322	311	903-916	14		
3			0006	EN		53	50 69	128 48 08							
3	D09	ROS	0037	BE	67	53	54.41	128 44.09		247		917-928	12		
			0042	BO			54.43	44.09							
				EN			54.41	44.05							

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YEAR 1999		MONTH Aug		SHIP		CRUISE								PAGE	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	
3	Do10	ROS	0127	BE	68	53 58.63	128 40.74		155		929-938	10			
			0134	BO		53 40.74	128 40.74								
			0139	EN											
3	Ga14	ROS	1406	BE	69	53 15.88	127° 55.51	✓	143		939-948	10			
			1409	BO		15.93	55.47								
			1421	EN		15.95	55.44								
3	Ga12	ROS	1526	BE	70	53° 22.73	128° 3.41	✓	233		949-960	12			
			1532	BO		22.74	3.35								
			15.49	EN		22.81	3.28								
3	Ga11	ROS	16.31	BE	71	53° 27.63	128° 8.64		290		961-974	14			
			16.37	BO		27.68	8.64								
			16.55	EN		27.66	8.53								
3	Ga9	ROS	17.46	BE	72	53° 28.99	128° 20.51		494		975-989	15			
			17.56	BO		53 28.99	128 20.58								
			18 18	EN		53 29 09	128 20 48								
3	Ga7	ROS	19.24	BE	73	53 26.19	128° 34.08		195		990-1000	11			
			19.28	BO		53 26.23	128. 34.13								
			19.42	EN		53 26.24	128 34.11								

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YEAR		MONTH		SHIP		CRUISE		PAGE		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
4	Qu2	ROS	10.06*	BE	78	54° 29.15	130° 3.50		173		1055-1065	11		* Times incorrect they appear to be local not UTC Check hdr file for errors.
			10.10*	BO		54° 29.15	130° 3.50							
			10.21*	EN		54 29.17	130° 3.51							
4	WC3	ROS	18.47	BE	79	54 27.52	130° 11.41		311		1066-1079	14		
			18.53	BO		54 27.55	130 11.48							
			19.12	EN		54 27.61	130 11.51							
4	WC1	ROS	20.45	BE	80	54 37.39	130 23.41		65		1080-1084	5		
			20.47	BO		54 37.40	130 23.43							
			20.52	EN		54 37.40	130 23.48							
4	PI1	ROS	21.26	BE	81	54 40.58	130 28.26		560		1085-1101	17		
			21.36	BO		54 40.57	130 28.23							
			22.01	EN		54 40.53	130 28.51							
4	PI3	ROS	2254	BE	82	54 46.71	130 19.69		496.		1102-1116	16.		
			2303	BO		54 46.71	130 19.77		482.					
			2326	EN		46.66	19.65							
5	PI7		0100	BE	83	54 5930	130 02.79		225.		1117-1128	12.		

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INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		Aug		Vector		9931								
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
5	AA3	RDS	0422	BE	84	55 27 16	129 37 02		392		1129-1143	15		
			0430	Bo		55 27 15	129 37 05			380				
			0450	EN		55 27 15	129 37 11							
5	OB 6	RDS	0539	BE	85	55 21 28	129 45 92		241		1144-1156	13		2 samples labelled 1156, but
			0545	Bo		55 21 29	129 46 00			229				@ different stations.
			0557	EN		55 21 32	129 45 87							
5	OB 4	RDS	0648	BE	86	55 13 94	129 51 03		527		1156-1172	17		
			0658	Bo		55 13 98	129 50 91			514				
			0724	EN		55 14 21	129 50 71							
5	OB 2	RDS	0820	BE	87	55 06 64	129 57 38		431		1173-1187	15		Pressure spike @ 60m.
			0829	Bo		55 06 55	129 57 49			417				
			0847	EN		55 06 39	129 57 78							
5	PC 12	RDS	14.32	BE	88	55 43 53	130 8.69		415		1188-1201	14		T, S spike @ 50m
			14.40	Bo		55 43.48	130 8.61			407				Sample 1201 - spigot open
			14.58	EN		55 43.40	150 8.80							
5	PC 10		16.07	BE	89	55 32.27	130 6.09		255		1202-1213	12		
			16.13	Bo		55 32.25	130 6.01			252				
			16.27	EN		55 32.17	130 6.11							

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DAILY LOG

OCEAN PHYSICS

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YEAR			MONTH			SHIP			CRUISE					PAGE	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	
5	PC 8	ROS	17.56	BE	90	55° 19.00	129 59.48		256		1214-1226	13		Spike @ Bottom	
			17.57	BO		55 18.97	129 59.43			250					
			18.05	EN		55 18.92	129 59.45								
5	PC 6	ROS	19.26	BE	91	55° 6.75	130 9.56		207		1227-1237	11			
			19.30	BO		55. 6.74	130 9.53			200					
			19.44	EN		55 6.77	130 9.54								
5	PI 5	ROS	21.12	BE	92	54 52.87	130 10.91		427		1238-1252	15			
			21.20	BO		54° 52.87	130° 10.88			414					
			21.38	EN		54° 52.87	130° 10.88								
6	SU 1	ROS	16.50	BE	93	52° 54.13	129° 4.55		270		1253-1265	13		Spike @ 90m	
			16.56	BO		52° 54.14	129° 4.45			267					
			17.11	EN		52° 54.18	129° 4.16								
6	SU 2	ROS	17.44	BE	94	52° 57.22	128° 59.15		122		1266-1273	8		Possibly labelled as Su1 in computer?	
			17.47	BO		52° 57.25	128° 59.12			128				Edited hdr file, changed Su 1 to Su 2. DJS ✓	
			17.56	EN		52° 57.28	128° 59.10								
6	SU 3	ROS	18.31	BE	95	53 01.69	128 55 10		130		1273-1283	10		Tripped 2 bottles @ bottom.	
			18.35	BO		53 1.71	128 55.07			117					
			18.45	EN		53 1.71	128 55.03								

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YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1999			Aug.			Vector			99-31						
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	
6	LS	Ros	2206	BE	96	52 37 56	128 53 00		217		1284-1295	12			
			2210	BO		52 37 54	128 52 99			205					
				EN											
6	LA1	Ros	2311		97	52 40.82	128 45.11		318		1296-1309	14		Salinity samples	
			2318			52 40.80	128 45.08			320					
7	LA4	Ros	0108		98	52 56.01	128 40.27		172		1310-1319	10			
			0112			52 56.00	128 40.21			160					
			0121												
7	LA3	Ros	0204		99	52 51.33	128 43.39		375		1320-1334	15		Salinity samples	
			0210			52 51.32	128 43.39			367					
			0228												
7	LA2	Ros	0305		100	52 46.10	128 45.99		311		1335-1348	14			
7	Ri 8	Ros	16.50	BE	101	51° 50.67	127° 21.71		150		1349-1358	10			
			16.54	BO		51° 50.64	127° 21.75			145					
			17.04	EN		51° 50.67	127° 21.68								

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YEAR			MONTH			SHIP			CRUISE					PAGE	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	
7	Ri 7	Ros	17.37	BE	102	51° 46.76	127° 23.56		242		1359-1370	12			
			17.42	BO		51° 46.71	127° 23.62			234					
			17.57	EN		51° 46.76	127° 23.59								
7	Ri 6	Ros	18.32	BE	103	51° 43.71	127° 27.19		210		1371-1381	11			
			18.37	BO		51° 43.69	127° 27.22			203					
			18.49	EN		51° 43.70	127° 27.25								
7	Ri 4	Ros	19.20	BE	104	51° 38.94	127° 26.82		301		1382-1395	14			
			19.35	BO		51° 38.93	127° 26.89			294					
			19.51	EN		51° 38.96	125° 26.81								
7	Ri 5	Ros	20.25	BE	105	51° 40.73	127° 19.84		200		1396-1406	11		2 bottles tripped @ 177m because of wire angle.	
			20.28	BO		51° 40.66	127° 19.80			177					
			20.41	EN		51° 40.63	127° 19.95								
7	Ri 3	Ros	21.39	BE	106	51° 35.92	127° 32.06		327		1407-1420	14			
			21.45	BO		51° 35.90	127° 32.07			319				spike @ 198m	
			22.02	EN		51° 35.91	127° 32.12								
7	Ri 2	Ros	22.36	BE	107	51 31 27	127 33 58		336		1421-1435	15			
			22.42	BO		51 31 26	127 33 59			324					
			23.00	EN		51 31 22	127 33 60								

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		Aug		Vector		99-31								
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
8	SM1	ROS	0155	BE	108	5118.70	12730.00		214		1436-1447	12		
			0200	Bo		5118.68	12729.94			209				
			0211	EN										
8	SM2	ROS	0244		109	5112.99	12722.07		370		1448-1462			Salinity samples
			0250							363				
			0305			5118.00	12722.13							
8	SM3	ROS	0340		110	5118.49	12714.54		327		1463-1476	14		
			0346			5118.52	12714.55			323				
8	SM5	ROS	0445	BE	111	5121.30	12706.19		112		1477-1483	7		
			0448	Bo		5121.30	12706.17			105				
			0454	EN		5121.30	12706.17							
8	SM4	ROS	0514	BE	112	5121.62	12708.95		186		1484-1495			
			0517	Bo		5121.60	12708.96			174				
			0526	EN		5121.55	12709.04							
8	Q2	ROS	1512	BE	113	5028.24	12754.27		224		1496-1507	12		spike at 100 + 20
			1518	Bo		5028.22	12754.25							
			1536	EN		5028.26	12753.99							

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YEAR				MONTH			SHIP			CRUISE				PAGE	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	
8	Q3	ROS	16.18	BE	114	50° 29.74	127° 46.25		206		1508-1518	11			
			16.25	BO		50° 29.76	127° 46.24			196					
			16.36	END		50° 29.78	127° 46.27								
8	Q4	ROS	17.13	BE	115	50° 31.70	127° 38.77		120		1519-1526	8		Spike at 110m.	
			17.16	BO		50° 31.71	127° 38.75			111					
			17.25	END		50° 31.70	127° 38.73								
8	N22	ROS	17.46	BE	116	50° 30.53	127° 35.97		151		1527-1536	10			
			17.50	BO		50° 30.51	127° 35.95			141					
			18.00	END		50° 30.49	127° 35.99								
8	N18	ROS	18.21	BE	117	50 28 92	127 33 59		194		1537-1547	11		Pressure spike @ 100m.	
			18.25	BO		50 28 92	127 33 60			187					
			18.37	END		50 28 88	127 33 65								
8	20	ROS	18.56	BE	118	50° 27.00	127° 31.60		194		1547-1561	14		Spike 50m.	
			19.01	BO		50° 26.99	127° 31.60								
				EN											
8	17	ROS	19.41	BE	119	50° 25.77	127° 30.61		176		1562-1574	13		Extra bottle tripped	
				BO		25.73	30.58								
				EN		25.71	30.57								

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YEAR			MONTH			SHIP			CRUISE			PAGE		
			August			VECTOR			9931					
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
8	#14	ROS	2023	BE	120	50° 24.37	127° 29.54		141		1575-1586	12		spike at 125
			2026	BO		50° 24.37	127° 29.53			133				
			2039	EN		50° 24.34	127° 29.48							
8	#11	ROS	2100	BE	121	50° 23.72	127° 28.83		104		1587-159	10		spike 25m
			2104	BO		50° 23.17	127° 28.82			96				
			2114	EN		50° 23.71	127° 28.83							
8	#8	ROS	2142	BE	122	50° 23.01	127° 27.52		42		1597-1603	7		spike at 10m, 25m
			2144	BO		50° 23.01	127° 27.52			31				
			2150	EN		50° 23.01	127° 27.51							
8	#5	ROS	2211	BE	123	50 22.01	127 26.60		55		1604-1611	8		
			2214	BO		50 22.01	127 26.60			50				
			2222	EN										
8	#2	ROS	2236	BE	124	50 21.03	127 26.47		37		1612-1619	8		
			2238	BO						30				
			2242	EN										
9	Ru2	ROS	0055	BE	125	50 35 00	127 30 25		75		1620-1627	8		
			0057	BO						70				
			0102	EN		50 35 01	127 30 21							

CAST TYPE - BOT - bottle cast
 CTD - ctd
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 DRF - drifter

USW - sea water loop

TIME CODE - BE - beginning time of cast
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 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		MONTH		SHIP		CRUISE		PAGE		OF				
1999		Aug		Vector		99-31								
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	RU3	ROS	0127	BE	126	50°35'30	127°26.51		65		1628-1636	9		
			0130	BO					56.					
			0136	EN										
9	Hol 5	ROS	1435	BE	127	50°38.20	127°57.23		52		1637-1642	6		
			1437	BO		50°38.20	127°57.23		42					
			1443	EN		50°38.21	127°57.24							
9	Hol 4	ROS	1515	BE	128	50°36.99	127°51.13		58		1643-1647	5		File named 93310128.
			1518	BO		50°36.99	127°51.12		53					renamed to 99310128.2 (DJS)
			1522	EN		50°37.00	127°51.11							
9	Hol 3	ROS	1551	BE	129	50°35.84	127°44.99		62		1648-1652	5		18162
			1553	BO		50°35.84	127°44.97		52					97
			1558	EN		50°35.83	127°44.94							65
9	Hol 2	ROS	1627	BE	130	50°35.30	127°38.99		113		1653-1660	8		may be labelled Hol 3.
			1630	BO		50°35.30	127°38.97		107					collected and changed to Hol 2. (DJS)
			1638	EN		50°35.29	127°38.99							
9	Hol 1	ROS	1708	BE	131	50°33.88	127°33.51		127		1661-1668	8		
			1711	BO		50°33.89	127°33.46		120					110-113
			1720	EN		50°33.88	127°33.45							92-100

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YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1999			Aug.			Vector			99-31						
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	Am 1	ROS	2017	BE	132	50 01 69	127 05 13		40		1669-1673	5		Bad header	
			2021	BO		50 01 70	127 05 11			29					
			2025	EN											
10	KAS 1	ROS	0436	BE	133	50 02.25	127 14.85		286		1674-1687	13			
			0442	BO		50 02.25	127 14.92			279					
			0459	EN		50 02.16	127 14.92								
10	KAS 2		0535		134	50 07.20	127 15.12		107		1688-1696	9			
			0538			50 07.19	127 15.12			100					
10	Tahh 1		0642		135	50 07.99	127 05.60		110		1697-1704	8			
			0645			50 07.99	127 05.60			102					
10	ESP 2	ROS	1402	BE	136	49° 58.49	126° 55.96		154		1705 - 1714	10			
			1407	BO		49° 58.51	126° 55.97			147					
			1418	EN		49° 58.57	126° 56.02								
10	ZE 134	ROS	1504	BE	137	49° 51.33	126° 55.69		238		1715 - 1726	12		spide at 220 m	
			1510	BO		49° 51.31	126° 55.68			232					
			1525	EN		49° 51.33	126° 55.66								

YEAR			MONTH			SHIP			CRUISE				PAGE	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
10	ZEB 25	Ros	1607	BE	138	49° 53.67	126° 48.04		230		1727-1738	12		
			1612	Bo		49° 53.68	126° 48.02			223				
			1625	END		49° 53.69	126° 47.98							
10	ZEB 1	Ros	1704	BE	139	49° 57.97	126° 51.09				1739-1746			
			1707	Bo		49° 57.96	126° 51.10							
			1714	END		49° 57.96	126° 51.09							
10	TAH 2	Ros	1846	BE	140	49° 53.99	126° 39.47		168		1747-1757	11		
			1850	Bo		49° 53.99	126° 39.41			165				
			1900	END		49° 54.01	126° 39.37							
10	TAH 2	Ros	1925	BE	141	49° 51.38	126° 39.79		200		1758-1767	10		Spike 165m and 75
			1929	Bo		49° 51.41	126° 39.79			194				
			1939	END		49° 51.38	126° 39.79							
10	TAH 3	Ros	2005	BE	142	49° 47.96	126° 39.15		125		1768-1778	9		Spike at 30m.
			2009	Bo		49° 47.86	126° 39.08			117				
				END		49° 47.79	126° 39.01							
10	TLU 1	Ros	2124	BE	143	49° 41.64	126° 31.03		260		1777-1789	13		Spike at 80m.
			2130	Bo		49° 41.64	126° 30.95			249.				
			2143	END		49° 41.64	126° 31.08							

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RE - recover mooring

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

CRUISE
NUMBER

9931

DAILY LOG #2 of 2
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

26 July - 11 August 1999

VESSEL

VECTOR

PROJECT

BC INLETS

Captain: Mark Somer

Second Officer: Dale Hansen

First Officer: Darren Morley

Third Officer: _____

Second Officer: Dale Hansen

Cruise Participants / Agencies: *LOS*

Scientific Personnel: Party Chief: *DARIO STUCCHI*

Name	Watch	Cabin	Name	Watch	Cabin
DARIO STUCCHI	07-15	STARBOARD CABIN			
BERNARD MINIKLEY	15-23	PORT CABIN			
LES SPEARING	15-23	PORT CABIN			
ELAINE BAIRD		LADY SCI. CABIN			
LAUREN ROSS	15-23	CHIEF SCI. CABIN			
TAKA IVANOCHICO	07-15	CHIEF SCI. CABIN			
LIZZIE WILLIAMS	07-15	LADY SCI. CABIN			

Second leg of cruise: _____ Party Chief: _____

[illegible]

Data logging system: Unit no.: FS02 - TOUCH COMPUTER

Program Name: SEASAVE Program version: 4.236

CTD deck unit make: SBE model: 1 plus serial no.:

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

1st CTD make: SEABIRD model: 911+ serial no.: 0530

Temperature sensor

model: _____ serial no.: P' 2038
J' 2374

coefficients: slope: _____ offset: _____

Conductivity sensor
model: _____ serial no.: _____
P: 1566
S: 2173

coefficients: slope: offset:

Pressure sensor range: 0-10,000 psi serial no.: 75636

coefficients: FSP: _____ dB offset: _____

Transmissometer
model: _____ serial no.: 192 D

coefficients: slope: _____ offset: _____

Comments: WET LAB FLUOROMETER SN W515-097

CONF: "OSSOCTD.CON"

79 ✓
81 ✓
86 ✓
88 ✓
92 ✓
97 ✓
99 ✓
106 ✓
109 ✓
112 ✓
133 ✓
137
146
147
155
156

132
1
149

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1999			MONTH Aug			SHIP VECTOR				CRUISE 9931				PAGE	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	
10	TU 2	ROS	2227	BE	144	49 46.82	126 28.21		148		1790-1799	10		cal 4 sed	
			2231	BO		49 46.80	126 28.21			139				6 samb	
			2240	END										7 cont	
10	MUC 5	ROS	2341	BE	145	49 39 00	126 28 59		226		1800-1811	12			
			2346	BO		49 39 01	126 28 61			232					
			2359	END		49 38 99	126 28 64								
11	MUC 4	ROS	0037	BE	146	49 38.50	126 20 79		286		1812-1824	13		-99, 1234	
			0043	BO		49 38.53	126 20.70			279					
				END		49 38.52	126 20.75								
11	MUC 3	ROS	0127	BE	147	49 38.97	126 14.55		367		1825-1840	16			
			0135	BO		49 39.01	126 14.52			359					
			0154	EN		49 38.98	126 14.53								
11	MUC 2	ROS	0221	BE	148	49 40 20	126 09 59		367		1840-1853	14		Surface down 184	
			0228	BO		49 40 17	126 09 63			361				Surface up	
			0243	EN		49 40 20	126 09 58								
11	M5 km	ROS	0307	BE	149	49 38 99	126 05 64		174		1854-1863	10		Pressure spike @ $\approx$ 135m.	
			0311	BO		49 38 99	126 05 58			167					
				EN		49 39 00	126 05 60								

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW -

sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE					PAGE	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	
11	MUC 1	ROS	0340	BE	150	49 37 49	126 03 72		133		1864-1872				
			0345	BO		49 37 46	126 03 70			124					
			0353	EN		49 37 48	126 03 63								
11	U1	ROS	1435	BE	151	48° 55 16	125° 31 15		23		1873-1881	9			
			1437	BO		48° 55 16	125° 31 18			20					
			1443	EN		48° 55 15	125° 31 18								
11	U4	ROS	1505	BE	152	48° 56 59	125° 32 46		21		1882-1890	9			
			1507	BO		48° 56 58	125° 32 45			19					
			1511	EN		48° 56 57	125° 32 47								
11	U5	ROS	1527	BE	153	48° 57 04	125° 33 04		23		1891-1899	9			
			1529	BO		48° 57 04	125° 33 04			18					
			1535	EN		48° 57 03	125° 33 04								
11	A 12	ROS	1745	BE	154	48° 58 18	125° 07 81		94		1900-1906	7		Spiked at 50m	
			1748	BO		48° 58 17	125° 07 80			84					
			1754	EN		48° 58 13	125° 07 76								
11	A 5	ROS	1902	BE	155	48° 59 62	124° 53 48		365		1907-1920	14		ultra very spiky	
			1910	BO		48° 59 60	124° 53 51			356				orp secondary?	
			1926	EN		48° 59 55	124° 53 57							* Overwritten by next station.	

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- * flushed secondary & primary circuits with distilled water several times.
- Lsg. though he saw some sediment in the primary exhaust tube.
- checked fluorometer flow seems OK

YEAR		MONTH			SHIP		CRUISE					PAGE		OF		
1999		AUGUST			VECTOR		9931									
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	A4	ROS	1954	BE	155	49° 02 72	124° 51 18		294		1921-1933	13		* see note ←		
			2001	BO	156*	49° 02 69	124° 51 18			285						
			2015	EN		49° 02 67	124° 51 22									
11	PA13	ROS	2055	BE	156	49° 07 69	124° 48 44		132		1934-1942	9				
			2059	BO	157*	49° 07 67	124° 48 44			125						
			2109	EN		49° 07 75	124° 48 41									
11	A1*	ROS	2133	BE	157	49° 09 91	124° 48 61		114		1943-1953					
			2136	BO	158*	49° 09 92	124° 48 61			110						
			2149	EN		49° 09 93	124° 48 62									
11	AO*	ROS	2208	BE	158	49° 12.19	124 49.12		63		1954-1962	9				
				BO	159*											
				EN										15787		
11	PA1	ROS	2239		159	49 13.92	124 49 08		18		1963-1966	4		97		
					160*					15				15690		
						* Note: the original cast numbers were correct. There is no cast # 160 + cast # 155 is for station A4.										

CAST TYPE -

BOT -
CTD -
MOR -

bottle cast
ctd
mooring

ROS -
NET -
DRF -

rosette
net haul
drifter

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sea water loop

TIME CODE -

BE -
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beginning time of cast
bottom time of cast
end of cast

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RE -

deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -

RADAR
GLOBAL
LORAN