

CRUISE
NUMBER

9913

DAILY LOG
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

17-28 MAY 1999

VESSEL

W. E. RICKER

PROJECT

Welsh cruise

MAY 17

Leave Port Alberni $\approx$ 13430 (local).

CTD block not installed. Go through safety meetings before we can check CTD.
It is not working looks like software problems. Finally it's just a hidden
connector

NO MENTION OF BONGOS TAKEN FOR THE WHOLE CRUISE? ASSUME EVENT = CTD = CONSEC #

DAILY LOG

OCEAN PHYSICS

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YEAR			MONTH			SHIP			CRUISE			PAGE			OF		
1999			MAY			W.E. RICKER			9913			1					
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			
18	C9	CTD	0942	BE	1	49°07.63	126°58.11	CNV	414					Pressure spike, have to restart line			
18	C9	CTD	0957	BO	1	49°07.46	126°58.33	B-Up		402				Ts: 10.16 } CTD Ss: 31.72 }			
18	C9	CTD	1007	EN	1	49°07.35	126°58.35	AVG						TS stopped			
														Transmissometer spiky on way up.			
18	C8	CTD	1134	BE	2	49°09.42	126°54.80	CNV	194					Ts: 10.13 } CTD 10.23 } TS Ss: 31.53 }			
18	C8	CTD	1142	BO	2	49°09.25	126°54.87	B-Up	201	187							
18	C8	CTD	1147	EN	2	49°09.16	126°54.87	AVG									
18	C6	CTD	1306	BE	3	49°12.67	126°48.14	CNV	129 ¹¹⁵					T 10.27 } CTD T 10.34 } TS S 31.83 }			
18	C6	CTD	1312	BO	3	49°12.55	126°48.17	B-Up		118				MIXED LAYER ~ 35m			
18	C6	CTD	1316	EN	3	49°12.50	126°48.17	AVG									
18	C5	CTD	1526	BE	4	49°14.40	126°45.30	CNV	115					CTD } T 10.36 } TS } T 10.42 } S 31.7 S 31.67			
18	C5	CTD	1530	BO	4	49°14.35	126°45.39	B-Up		98							
18	C5	CTD	1533	EN	4	49°14.32	126°45.45	AVG									

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

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YEAR 1999			MONTH MAY			SHIP W. E. RICKER			CRUISE 9913			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
18	C4	CTD	1750	BE	5	49° 16.27	126° 42.56	CNV	111					CTD T } 10.63 S } 31 TS } 31.14
18	C4	CTD	1753	BO	5	49° 16.22	126° 42.66	B-up		101				
18	C4	CTD	1757	EN	5	49° 16.17	126° 42.75	AVG						
18	C3	CTD	2003	BE	6	49° 18.00	126° 38.68	CNV	98					CTD T } 10.8° TS } 10.87° S } 30.9 S } 30.8
18	C3	CTD	2008	BO	6	49° 17.96	126° 38.86	B-up		85				
18	C3	CTD	2010	EN	6	49° 17.95	126° 38.96	AVG						
18	C2	CTD	2212	BE	7	49° 19.37	126° 35.62	CNV	72					CTD T } 10.9° TS } 11.04° S } 30.7 S } 30.74
18	C2	CTD	2218	BO	7	49° 19.36	126° 35.76	B-up		64				
18	C2	CTD	22:20	EN	7	49° 19.37	126° 35.84	AVG						
19	C1	CTD	0130	BE	8	49° 21.05	126° 32.31	CNV	30					CTD T } 10.86° TS } 10.97° S } 30.4 S } 30.43
19	C1	CTD	0133	BO	8	49° 21.03	126° 32.38	B-up		25				
19	C1	CTD	0135	EN	8	49° 21.03	126° 32.37	AVG						
														MAY 19 - 2200h - TRANSM. WINDOWS CLEANED. S.T.

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1999			MAY			W. E. RICKER			9913					3			
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			
20	T 13	CTD	0804	BE	9	50° 18.62	130° 19.63	CNV	1865					9.56 T _s } CTD 31.66 S _s }			
20	T 13	CTD	0831	BO	9	50° 18.74	130° 19.30	B-Up		1003				Pressure spikes @ B.O.F. Had to restart the file			
20	T 13	CTD	0851	EN	9	50° 18.86	130° 19.11	Avg									
20	T12	CTD	1019	BE	10	50° 22.74	130° 09.71	CNV	NO sounding but > 1000 m					CTD { T _s : 9.53 S _s : 31.62			
20	T12	CTD	1047	BO	10	50° 22.81	130° 09.78	B-Up		1006				Pressure spikes @ B.O.F. Had to restart the file			
20	T12	CTD	1107	EN	10	50° 22.97	130° 09.70	AVG									
20	T11	CTD	1229	BE	11	50° 27.58	129° 59.42	CNV	~2000 no sndg					CTD { SST 9.61 SSS 31.70			
20	T11	CTD	1257	BO	11	50° 27.84	129° 59.38	B-up		1003							
20	T11	CTD	1315	EN	11	50° 27.99	129° 59.82	AVG						(Thermo Salinograph not working since ~ 0500 UTC.) our computer says disc may be getting full?			
20	T10	CTD	1547	BE	12	50° 34.58	129° 41.35	CNV	~1200m					CTD { T 9.06 S 31.53			
20	T10	CTD	1615	BO	12	50° 34.38	129° 41.24	B-up		1004				(- added density factor to CNV + AVG files for STD #12+ 13)			
20	T10	CTD	1634	EN	12	50° 34.31	129° 41.19	AVG									
20	T9	CTD	1852	BE	13	50° 41.44	129° 28.23	CNV	1960					WRONG STN NAME IN FILE HEADER. SHOULD BE T9			
20	T9	CTD	1919	BO	13	50° 41.13	129° 28.15	B-UP		1002				CTD { T 9.11 S 31.55			
20	T9	CTD	1940	EN	13	50° 40.88	129° 28.19	AVG						Thermosalinograph problem repaired			
20	T8	CTD	2131	BE	14	50° 45.61	129° 19.67	CNV	216					WRONG STN NAME IN FILE HEADER SHOULD BE T8			
20	T8	CTD	2138	BO	14	50° 45.57	129° 19.62	B-up		200				CTD { T 9.04 S 31.51 T.S. } T 9.13 S 31.52			
20	T8	CTD	2143	EN	14	50° 45.54	129° 19.60	AVG						I forgot to change pressure in graph from 1000db. - took out density factor from			

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1999		MAY			W. E. RICKER		9913			4				
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
20	T7	CTD	2323	BE	15	50°49.15	129°12.99	CNV	92					CTD T } 8.84° S } 31.28 TS S } 31.28
20	T7	CTD	2328	BO	15	50°49.05	129°12.87	B-up		86				+ spike in salinity
20	T7	CTD	2330	EN	15	50°49.02	129°12.80	AVG						near surface at end of cast.
21	T1	CTD	1418	BE	16	51°16.89	128°19.67	CNV	74					CTD T } 9.29° TS } 9.38° S } 30.93 S } 30.93
21	T1	CTD	1422	BO	16	51°16.91	128°19.62	B-up		66				wire from deck unit to winch was disconnected - fixed +
21	T1	CTD	1425	EN	16	51°16.92	128°19.59	AVG						all appears o.k.
21	T2	CTD	1552	BE	17	51°12.69	128°28.09	CNV	187					
21	T2	CTD	1559	BO	17	51°12.67	128°27.97	B-up		~ 179				CTD T } 9.35° S } 30.96
21	T2	CTD	1603	EN	17	51°12.66	128°27.93	AVG						TS T } 9.43° S } 30.96
21	T3	CTD	1742	BE	18	51°08.41	128°35.98	CNV	135					
21	T3	CTD	1748	BO	18	51°08.42	128°36.00	B-up		127				CTD T } 9.04° S } 31.29
21	T3	CTD	1752	EN	18	51°08.44	128°36.00	AVG						TS T } 9.12° S } 31.29
21	T4	CTD	1930	BE	19	51°04.80	128°43.83	CNV	59					
21	T4	CTD	1934	BO	19	51°04.82	128°43.75	B-up		51				CTD T } 9.05° S } 30.92
21	T4	CTD	1936	EN	19	51°04.82	128°43.72	AVG						TS T } 9.13° S } 30.93
21	T5	CTD	2130	BE	20	50°59.98	128°52.19	CNV	60					CTD T } 8.99° S } 30.91
21	T5	CTD	2134	BO	20	50°59.95	128°52.06	B-up		53				-
21	T5	CTD	2135	EN	20	50°59.94	128°52.02	AVG						TS - S N/A: quit again

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

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
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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
21	T6	CTD	2310	BE	21	50°55.79	128°59.96	CNV	58					CTD } T 8.87° S 31.30
21	T6	CTD	2314	BO	21	50°55.76	128°59.81	B-up		51				TS } T 8.95° S 31.31
21	T6	CTD	2315	EN	21	50°55.74	128°59.75	AVG						
24	B5	CTD	0630	BE	22	56°07.20	135°21.75	CNV	300					CTD } T 7.32 TS } T 7.41 S 31.75 S 31.76
24	B5	CTD	0639	BO	22	56°07.17	135°21.82	B-up		291				Interesting T° signal lots of warm water below mixed layer. Almost no ml.
24	B5	CTD	0645	EN	22	56°07.16	135°21.87	AVG						
24	B4	CTD	0808	BE	23	56°09.63	135°14.40	B-up	265					7.69 } CTD 7.78 } TS 31.75 } 31.75 }
24	B4	CTD	0818	BO	23	56°09.52	135°14.46	CNV	288?	260				Slightly > diff between sal 1 and sal 2.
24	B4	CTD	0823	EN	23	56°09.49	135°14.52	AVG						
24	B3	CTD	0930	BE	24	56°12.54	135°07.71	B-up	170					7.64 } CTD 7.73 } TS 31.66 } 31.66 }
24	B3	CTD	0937	BO	24	56°12.51	135°07.79	CNV		160				Very well mixed layer ~37m
24	B3	CTD	0940	EN	24	56°12.47	135°07.81	AVG						
24	B2	CTD	1040	BE	25	56°14.98	135°01.64	B-up	144					7.70 } CTD 7.80 } TS 31.64 } 31.64 }
24	B2	CTD	1047	BO	25	56°14.93	135°01.55	CNV		139				
24	B2	CTD	1050	EN	25	56°14.94	135°01.54	AVG*						
24	B1	CTD	1150	BE	26	56°18.01	134°54.60	B-up	88					7.59 } CTD 7.68 } TS 31.64 } 31.64 }
24	B1	CTD	1156	BO	26	56°18.00	134°54.51	CNV	85	75				
24	B1	CTD	1158	EN	26	56°17.9 ¹⁸	134°54.45	AVG*						

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
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YEAR 1999				MONTH MAY		SHIP W. E. RICKER				CRUISE 9913				PAGE 6 OF 6	
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	B11	CTD	01:09	BE	27	55°44.83	136°17.16	CNV	2600					T- 8.01° CTD TS 7.09°	
25	B11	CTD	01:33	BO	27	55°44.70	136°17.36	B-up	1003					S 32.30 } S 32.31	
25	B11	CTD	01:53	EN	27	55°44.57	136°17.42	AVG						(x-deleted from D drive after I looked the data over)	
25	B10	CTD	03:36	BE	28	55°49.22	136°04.71	CNV	1442 Fa (chart) (no sounder reading)					CTD T- 7.68° TS 7.24°	
25	B10	CTD	03:57	BO	28	55°49.24	136°04.60	B-up		1003				S- 32.42° TS 7.0°	
25	B10	CTD	04:20	EN	28	55°49.36	136°04.54	AVG						Initial Problem with Nmea + computer restarted - everything seems ok now	
25	B9	CTD	06:13	BE	29	55°54.00	135°52.69	B-up						CTD T- 8.02° TS 7.11	
25	B9	CTD	06:38	BO	29	55°53.91	135°52.42	CNV	1400 Fa					S- 32.28 } S- 31.92	
25	B9	CTD	06:59	EN	29	55°53.88	135°52.15	AVG		1006					
25	B8	CTD	08:35	BE	30	55°58.69	135°41.52	B-up	1128					7.9 } CTD 8.0 } TS 32.3 } 32.3 }	
25	B8	CTD	09:02	BO	30	55°58.44	135°41.34	CNV	1089					NMEA light turned off during cast, but lat/long keep showing on screen.	
25	B8	CTD	09:23	EN	30	55°58.31	135°41.08	AVG		1005				ON/OFF at end of cast.	
25	B7	CTD	10:38	BE	31	56°02.27	135°34.95	B-up	804					7.7 } CTD 7.8 } TS 31.7 } 31.7 }	
25	B7	CTD	11:01	BO	31	56°02.15	135°35.33	CNV	~850?	803				Interesting T signal Had wind up to increase speed 0.7 to 1.0 @ ~400m.	
25	B7	CTD	11:15	EN	31	56°02.02	135°35.46	AVG	821					Sounding iffy so I take no chance	
25	B6	CTD	12:40	BE	32	56°04.60	135°27.93	B-up	539					7.8 } CTD 7.9 } TS 31.8 } 31.8 }	
25	B6	CTD	12:52	BO	32	56°04.46	135°27.98	CNV	547?	512					
25	B6	CTD	13:02	EN	32	56°04.39	135°28.02	AVG							

CAST TYPE -

BOT -

bottle cast

ROS -

rosette

USW -

sea water loop

TIME CODE -

BE -

beginning time of cast

DE -

deployment time

POSITION CODE -

RAD -

RADAR

CTD -

ctd

NET -

net haul

BO -

bottom time of cast

MR -

messenger release

GPS -

GLOBAL

MOR -

mooring

DRF -

drifter

EN -

end of cast

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recover mooring

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1999		MAY			W.E. RICKER		9913				7			
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28	D1	CTD	0456	BE	33	54° 34.82	132° 19.59	CNV	240					CTD } T 8.10 } T 8.22 S 31.07 } S 31.07
28	D1	CTD	0504	BO	33	54° 34.71	132° 19.54	B-up		226				up cast speed a bit slow b.c. spooling problems
28	D1	CTD	0511	EN	33	54° 34.67	132° 19.57	AVG						
28	D2	CTD	0643	BE	34	54° 31.75	132° 32.25	CNV	280					8.33 } CTD 8.42 } TS 31.20 } 31.21 }
28	D2	CTD	0651	BO	34	54° 31.63	132° 32.11	B-up		267				stairlike profile
28	D2	CTD	0658	EN	34	54° 31.59	132° 31.99	AVG						
28	D3	CTD	0837	BE	35	54° 28.80	132° 45.59	CNV	370					8.27 } TS 31.41 }
28	D3	CTD	0847	BO	35	54° 28.59	132° 45.77	B-up		356				
28	D3	CTD	0854	EN	35	54° 28.45	132° 45.94	AVG						
28	D4	CTD	1010	BE	36	54° 25.89	132° 57.73	CNV	180					CTD } T-8.23° S-31.33
28	D4	CTD	1017	BO	36	54° 25.76	132° 58.07	B-up		167				TS } T-8.32 S 31.34
28	D4	CTD	1020	EN	36	54° 25.71	132° 58.19	AVG						salinities are showing a difference of ~ 0.01

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28	D5	CTD	1134	BE	37	54°22.70	133°10.63	CNV	440					CTD } T- 8.29° S- 31.40	
28	D5	CTD	1145	Bo	37	54°22.76	133°10.89	B-up		432				TS } T 8.37° S 31.40	
28	D5	CTD	1153	EN	37	54°22.75	133°11.07	AVG							
28	D6	CTD	1306	BE	38	54°19.43	133°23.30	CNV	320-350					CTD } T 8.27° S 32.30	
28	D6	CTD	1315	Bo	38	54°19.44	133°23.99	B-up		312				TS } T 8.36° S 32.31	
28	D6	CTD	1321	EN	38	54°19.44	133°23.41	AVG						deep mixed layer - to ~68m! (on a shelf + depth is fluctuating)	
28	D7	CTD	1441	BE	39	54°15.68	133°36.82	CNV	269					T 7.89° T 7.97°	
28	D7	CTD	1449	Bo	39	54°15.69	133°36.96	B-up		251				CTD < S 32.4 TS < S 32.45	
28	D7	CTD	1453	EN	39	54°15.70	133°36.88	AVG							
28	D8	CTD	1607	BE	40	54°12.67	133°49.22	CNV	426-430	417				CTD < T 7.77° S 32.51	
28	D8	CTD	1617	Bo	40	54°12.69	133°49.11	B-up						TS < T 7.86° S 32.51	
28	D8	CTD	1624	EN	40	54°12.68	133°49.08	AVG							

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LOR -RADAR
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LORAN