

CRUISE
NUMBER

9938

DAILY LOG
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

1-OCT → 17 OCT 1999

VESSEL

W. E. RICKER

PROJECT

HIGH SEAS SALMON

99-38

Transect/Station

La Push

		date-PDT	time-PDT
LP-4	Washington	September 22, 1999	19:15
LP-6	Washington	#N/A	#N/A 21:25
LP-9	Washington	September 22, 1999	0:15
LP-12	Washington	September 22, 1999	2:14
LP-17	Washington	September 22, 1999	3:32
LP-22	Washington	#N/A	#N/A 09:53
LP-27	Washington	September 22, 1999	5:55

Grays Harbor

		date-PDT	time-PDT
GH-3	Washington	September 24, 1999	2:24
GH-6	Washington	September 24, 1999	0:51
GH-10	Washington	September 23, 1999	23:40
GH-16	Washington	September 23, 1999	21:45
GH-21	Washington	September 23, 1999	20:04
GH-26	Washington	September 23, 1999	18:33

Willapa Bay

		date-PDT	time-PDT
WB-5	Washington	September 24, 1999	5:00
WB-9	Washington	September 24, 1999	8:34
WB-14	Washington	September 24, 1999	10:43
WB-19	Washington	September 24, 1999	13:10
WB-23	Washington	September 24, 1999	15:37
WB-30	Washington	September 24, 1999	18:26

Columbia River

		date-PDT	time-PDT
CR-4	Washington	September 25, 1999	#N/A 05:35
CR-7	Washington	September 25, 1999	4:16
CR-10	Washington	September 25, 1999	2:28
CR-15	Washington	September 25, 1999	0:44
CR-20	Washington	September 25, 1999	22:48
CR-25	Washington	September 25, 1999	20:59
CR-30	Washington	September 25, 1999	18:25

Cape Falcon

		date-PDT	time-PDT
CF-1	Oregon	September 27, 1999	4:19
CF-3	Oregon	September 27, 1999	3:18
CF-7	Oregon	September 27, 1999	1:51
CF-10	Oregon	September 27, 1999	0:26
CF-15	Oregon	September 26, 1999	#N/A 22:35
CF-20	Oregon	September 26, 1999	20:59
CF-25	Oregon	#N/A	#N/A
CF-30	Oregon	#N/A	#N/A

Cape Meares

			date-PDT	time-PDT
CM-1	Oregon	45.483	124.007	September 27, 1999 20:24
CM-3	Oregon	45.483	124.037	September 27, 1999 21:06
CM-5	Oregon	45.483	124.092	September 27, 1999 22:11
CM-10	Oregon	45.483	124.208	September 27, 1999 23:35
CM-15	Oregon	45.483	124.327	September 28, 1999 1:37
CM-20	Oregon	45.483	124.448	September 28, 1999 3:10
CM-25	Oregon	45.483	124.563	September 28, 1999 5:16

Cascade Head

			date-PDT	time-PDT
CH-1	Oregon	45.050	124.033	September 28, 1999 18:24
CH-2	Oregon	45.050	124.075	September 28, 1999 19:04
CH-5	Oregon	45.050	124.133	September 28, 1999 19:50
CH-10	Oregon	45.050	124.233	September 28, 1999 21:40
CH-15	Oregon	45.050	124.342	September 28, 1999 23:43
CH-20	Oregon	45.050	124.458	September 29, 1999 1:43
CH-25	Oregon	45.050	124.572	September 29, 1999 3:06

Newport

			date-PDT	time-PDT
NH-3	Oregon	44.667	124.100	September 29, 1999 18:31
NH-5	Oregon	44.667	124.175	September 29, 1999 19:18
NH-10	Oregon	44.667	124.287	September 29, 1999 21:02
NH-15	Oregon	44.667	124.405	September 30, 1999 22:42
NH-20	Oregon	44.667	124.520	September 30, 1999 0:45
NH-25	Oregon	44.667	124.637	September 30, 1999 2:25

Cape Perpetua

			date-PDT	time-PDT
CP-1	Oregon	44.250	124.135	September 30, 1999 18:36
CP-3	Oregon	44.250	124.202	September 30, 1999 19:20
CP-10	Oregon	44.250	124.342	September 30, 1999 20:29
CP-15	Oregon	44.250	124.458	September 30, 1999 21:48
CP-20	Oregon	44.250	124.575	September 30, 1999 23:06
CP-25	Oregon	44.250	124.692	#N/A

Saturday 2 October

Leave Newport.

Check configuration file 506CTD.CON

There are 2 differences with coefficient sheets:

For Primary T: I coef: should be 2.33208196 e-5
is 2.33208190 e-5

Pressure: AD590 M should be 1.280810 E-2
AD590 B should be -9.210198 E+00

AD590 M	is	1.250000 E-2	} Pressure offset ???
AD590 B	is	-1.000000 E+01	

Make corrections and save file as 9938.CON

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE					PAGE		OF	
1999			OCTOBER			W. E. RICKER			9938					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			
3	HH-1	CTD	0222	BE	1	43° 59.91	124° 09.78		23					CTD only			
3	HH-1	CTD	0225	BO	1	43° 59.90	124° 09.81			19							
3	HH-1	CTD	0226	EN	1	43° 59.89	124° 09.81										
3	HH-3	CTD	0242	BE	2	43° 59.97	124° 12.65		54					Header says HH-2			
3	HH-3	CTD	0245	BO	2	43° 59.94	124° 12.69			49				CTD ONLY			
3	HH-3	CTD	0246	EN	2	43° 59.94	124° 12.71										
3	HH-5	CTD	0303	BE	3	44° 00.00	124° 15.41		75					CTD + Bongo			
3	HH-5	CTD	0307	BO	3	44° 00.00	124° 15.45			71							
3	HH-5	CTD	0308	EN	3	44° 00.00	124° 15.47										
3	HH-10	CTD	0355	BE	4	44° 00.03	124° 22.23		111					CTD + BONGO			
3	HH-10	CTD	0359	BO	4	44° 00.06	124° 22.25			101							
3	HH-10	CTD	0402	EN	4	44° 00.06	124° 22.25										
3	HH-15	CTD	0449	BE	5	43° 59.97	124° 29.26		130					CTD + BONGO			
3	HH-15	CTD	0454	BO	5	43° 59.99	124° 29.30			125							
3	HH-15	CTD	0455	EN	5	43° 59.99	124° 29.31										
3	HH-20	CTD	0600	BE	6	44° 00.01	124° 36.21		150					CTD + BONGO			
3	HH-20	CTD	0605	BO	6	44° 00.02	124° 36.23			145							
3	HH-20	CTD	0608	EN	6	44° 00.03	124° 36.24										

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

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YEAR 1999		MONTH OCTOBER				SHIP W.E. RICKER				CRUISE 9938				PAGE 2	OF 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	HH-25	CTD	0659	BE	7	44° 00.05	124° 43.17		115					CTD+ BONGO	
3	HH-25	CTD	0704	BO	7	44° 00.07	124° 43.17			110					
3	HH-25	CTD	0707	EN	7	44° 00.07	124° 43.16								
3	HH-30	CTD	0801	BE	8	44° 00.00	124° 50.15		98					CTD+ BONGO	
3	HH-30	CTD	0806	BO	8	44° 00.01	124° 50.15			95					
3	HH-30	CTD	0808	EN	8	44° 00.00	124° 50.14								
3	HH-35	CTD	0858	BE	9	44° 00.02	124° 57.03		262					Surface to 111'	
3	HH-35	CTD	0906	BO	9	44° 00.04	124° 57.03			257				CTD+ BONGO	
3	HH-35	CTD	0910	EN	9	44° 00.05	124° 57.04								
3	HH-40	CTD	1011	BE	10	44° 00.11	125° 03.98		1373					CTD+ BONGO	
3	HH-40	CTD	1035	BO	10	44° 00.35	125° 03.77		1363	1006					
3	HH-40	CTD	1050	EN	10	44° 00.45	125° 03.78								
5	LC7	CTD	0711	BE	11	48° 33.04	126° 00.67		125					NO BONGOS	
5	LC7	CTD	0716	BO	11	48° 33.01	126° 00.66			120				ONLY CTD + LOOPS ALL LINE	
5	LC7	CTD	0719	EN	11	48° 33.00	126° 00.66								

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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			
5	LC6	CTD	0808	BE	12	48° 36.42	125° 54.02		89								
5	LC6	CTD	0813	BO	12	48° 36.40	125° 53.97			85							
5	LC6	CTD	0815	EN	12	48° 36.39	125° 53.97										
5	LC5	CTD	0900	BE	13	48° 38.78	125° 49.47		65					1.8 miles before STN because too much traffic			
5	LC5	CTD	0903	BO	13	48° 38.77	125° 49.44			60							
5	LC5	CTD	0905	EN	13	48° 38.77	125° 49.43										
5	LC4	CTD	1018	BE	14	48° 43.46	125° 40.91		162					Going slower on way			
5	LC4	CTD	1025	BO	14	48° 43.54	125° 40.78			157				down because of wire angle			
5	LC4	CTD	1028	EN	14	48° 43.57	125° 40.75										
5	LC3	CTD	1112	BE	15	48° 46.90	125° 34.33		133								
5	LC3	CTD	1118	BO	15	48° 46.93	125° 34.30			128							
5	LC3	CTD	1120	EN	15	48° 46.95	125° 34.28		131								
5	LC2	CTD	1146	BE	16	48° 48.63	125° 31.01		105								
5	LC2	CTD	1151	BO	16	48° 48.68	125° 31.03			100							
5	LC2	CTD	1153	EN	16	48° 48.70	125° 31.03										
5	LC1	CTD	1219	BE	17	48° 50.45	125° 27.81		92								
5	LC1	CTD	1224	BO	17	48° 50.50	125° 27.77			88							
5	LC1	CTD	1226	EN	17	48° 50.53	125° 27.72										

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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			
6	C10	CTD	0439	BE	18	49° 06.54	127° 01.35		759					CTD + BONGO			
6	C10	CTD	0455	BO	18	49° 06.68	127° 01.25		742	720				Stay well off bottom because steep continental shelf			
6	C10	CTD	0507	EN	18	49° 06.72	127° 01.17		725								
6	C9	CTD	0602	BE	19	49° 07.80	126° 58.22		435					CTD ONLY			
6	C9	CTD	0612	BO	19	49° 07.86	126° 58.11		430	427							
6	C9	CTD	0619	EN	19	49° 07.88	126° 58.07		425								
6	C8	CTD	0641	BE	20	49° 09.61	126° 54.61		198					CTD + BONGO			
6	C8	CTD	0646	BO	20	49° 09.64	126° 54.60			193							
6	C8	CTD	0650	EN	20	49° 09.66	126° 54.61										
6	C7	CTD	0736	BE	21	49° 11.50	126° 51.49		151					CTD ONLY			
6	C7	CTD	0742	BO	21	49° 11.59	126° 51.43			146							
6	C7	CTD	0745	EN	21	49° 11.61	126° 51.40										
6	C6	CTD	0810	BE	22	49° 12.58	126° 48.04		134					CTD + BONGO			
6	C6	CTD	0815	BO	22	49° 12.62	126° 47.96			130							
6	C6	CTD	0818	EN	22	49° 12.64	126° 47.94										
6	C5	CTD	0859	BE	23	49° 14.37	126° 45.02		121					CTD ONLY			
6	C5	CTD	0905	BO	23	49° 14.41	126° 44.95			116							
6	C5	CTD	0907	EN	23	49° 14.42	126° 44.92										

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YEAR			MONTH			SHIP			CRUISE			PAGE		
1999			OCTOBER			W.E. RICKER			9938			5 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
6	C4	CTD	0933	BE	24	49°16.23	126°41.99		116					CTD + BONGO
6	C4	CTD	0938	BO	24	49°16.30	126°41.98			111				
6	C4	CTD	0941	EN	24	49°16.32	126°41.96							
6	C3	CTD	1025	BE	25	49°17.95	126°38.49		101					CTD ONLY
6	C3	CTD	1029	BO	25	49°17.99	126°38.48			95				
6	C3	CTD	1032	EN	25	49°18.00	126°38.47							
6	C2	CTD	1057	BE	26	49°19.18	126°35.52		75					CTD + BONGO
6	C2	CTD	1101	BO	26	49°19.20	126°35.53			72				Lots of "loops" in Pr because of motion
6	C2	CTD	1103	EN	26	49°19.20	126°35.52							
6	C1	CTD	1150	BE	27	49°20.96	126°31.95		35					CTD ONLY
6	C1	CTD	1153	BO	27	49°20.95	126°31.95			31				
6	C1	CTD	1154	EN	27	49°20.96	126°31.96							
	KYUQUOT		LINE											
7	K8	CTD	0326	BE	28	49°31.51	127°58.42		2365					
7	K8	CTD	0347	BO	28	49°31.41	127°58.37			1008				CTD + Bongo <u>ALL</u> stations
7	K8	CTD	0403	EN	28	49°31.32	127°58.35							Lots of rolling motion, so descent rate goes ↑ & ↓

CAST TYPE - BOT - bottle cast
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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
7	K7	CTD	0518	BE	29	49 35.68	127 52.02		1757					
7	K7	CTD	0539	BO	29	49 35.54	127 51.88			1007				
7	K7	CTD	0556	EN	29	49 35.45	127 51.75							
7	K6	CTD	0652	BE	30	49 39.43	127 45.80		from 930 to 1100					station right at beginning of shift
7	K6	CTD	0714	BO	30	49 39.37	127 45.76			907				
7	K6	CTD	0727	EN	30	49 39.40	127 45.69							
7	K5	CTD	0840	BE	31	49 43.25	127 39.57		jumping 710					
7	K5	CTD	0857	BO	31	49 43.28	127 39.49		689	683				
7	K5	CTD	0907	EN	31	49 43.30	127 39.45							
7	K4	CTD	1004	BE	32	49 46.90	127 33.59		120					
7	K4	CTD	1009	BO	32	49 46.94	127 33.56			118				
7	K4	CTD	1012	EN	32	49 46.94	127 33.55							
7	K3	CTD	1106	BE	33	49 50.51	127 27.72		72					
7	K3	CTD	1109	BO	33	49 50.54	127 27.69			67				
7	K3	CTD	1111	EN	33	49 50.56	127 27.69							
7	K2	CTD	1208	BE	34	49 53.97	127 21.78		60					
7	K2	CTD	1212	BO	34	49 54.00	127 21.76			55				
7	K2	CTD	1213	EN	34	49 54.02	127 21.76							

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TIME CODE -

BE -
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YEAR 1999			MONTH OCTOBER			SHIP W.E. RICKER				CRUISE 9938				PAGE 7	OF 7
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	K1	CTD	1249	BE	35	49 55.50	127 18.70		52						
7	K1	CTD	1253	BO	35	49 55.51	127 18.68			48					
7	K1	CTD	1255	EN	35	49 55.52	127 18.69								
	FORRESTER ISLAND LINE														
10	FI58	CTD	0055	BE	36	54 32.28	134 32.48		2265					CTD + BONGO	
10	FI58	CTD	0115	BO	36	54 32.13	134 32.66			1010					
10	FI58	CTD	0131	EN	36	54 32.03	134 32.88								
10	FI48	CTD	0305	BE	37	54 34.05	134 15.48		1935					CTD + BONGO	
10	FI48	CTD	0325	BO	37	54 34.04	134 15.73			1006					
10	FI48	CTD	0340	EN	37	54 34.03	134 15.88								
10	FI40	CTD	0454	BE	38	54 35.40	134 01.86		357					CTD + BONGO	
10	FI40	CTD	0502	BO	38	54 35.42	134 01.90			352				CTD HITS BOTTOM ???	
10	FI40	CTD	0508	EN	38	54 35.46	134 01.94								
10	FI35	CTD	0556	BE	39	54 36.32	133 53.29		238					CTD ONLY	
10	FI35	CTD	0602	BO	39	54 36.31	133 53.32			234					
10	FI35	CTD	0606	EN	39	54 36.31	133 53.34								

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POSITION CODE - RAD - RADAR
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YEAR 1999			MONTH OCTOBER			SHIP W.E. RICKER				CRUISE 9938				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	
10	FI 30	CTD	0644	BE	40	54°37.15	133°44.71		256					CTD + BONGO	
10	FI 30	CTD	0651	BO	40	54°37.10	133°44.58			253					
10	FI 30	CTD	0656	EN	40	54°37.10	133°44.56								
10	FI 25	CTD	0750	BE	41	54°38.09	133°36.11		327					CTD ONLY	
10	FI 25	CTD	0759	BO	41	54°38.05	133°35.85			321					
10	FI 25	CTD	0805	EN	41	54°38.00	133°35.83								
10	FI 20	CTD	0842	BE	42	54°38.96	133°27.67		310					LONGER AT SURFACE B.O. WIRE ANGLE	
10	FI 20	CTD	0853	BO	42	54°38.86	133°27.30			300				CTD + BONGO	
10	FI 20	CTD	0859	EN	42	54°38.79	133°27.13								
10	FI 15	CTD	0951	BE	43	54°39.82	133°19.24		334					CTD ONLY	
10	FI 15	CTD	1000	BO	43	54°39.75	133°19.00		338	334					
10	FI 15	CTD	1006	EN	43	54°39.71	133°18.88								
10	FI 10	CTD	1043	BE	44	54°40.64	133°10.68		170					CTD + BONGO	
10	FI 10	CTD	1049	BO	44	54°40.56	133°10.52		175	165					
10	FI 10	CTD	1054	EN	44	54°40.55	133°10.48								
10	FI 5	CTD	1154	BE	45	54°41.65	133°02.26		176					CTD ONLY	
10	FI 5	CTD	1200	BO	45	54°41.61	133°02.29			172					
10	FI 5	CTD	1203	EN	45	54°41.63	133°02.32								

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 1999			MONTH OCTOBER			SHIP W. E. RICKER			CRUISE 9938					PAGE 9	OF 9
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	FI2.5	CTD	1229	BE	46	54° 42.07	132° 58.03		167					CTD + BONGO	
10	FI2.5	CTD	1235	BO	46	54° 42.07	132° 58.08			161					
10	FI2.5	CTD	1238	EN	46	54° 42.12	132° 58.12								
10	FI1	CTD	1319	BE	47	54° 42.52	132° 54.45		157					CTD ONLY	
10	FI1	CTD	1324	BO	47	54° 42.70	132° 54.48			152				LONG TIME @ SURFACE SLOWER SPEED	
10	FI1	CTD	1329	EN	47	54° 42.81	132° 54.55								
	BARANOF					ISLAND LINE									
13	BI1	CTD	0357	BE	48	56° 18.05	134° 54.78		31					CTD ONLY	
13	BI1	CTD	0401	BO	48	56° 18.07	134° 54.84		36	32					
13	BI1	CTD	0401	EN	48	56° 18.08	134° 54.87								
13	BI2	CTD	0438	BE	49	56° 15.04	135° 01.88		142					CTD + BONGO	
13	BI2	CTD	0443	BO	49	56° 15.06	135° 02.09			139					
13	BI2	CTD	0446	EN	49	56° 15.07	135° 02.17								
13	BI3	CTD	0529	BE	50	56° 12.63	135° 07.88		175					CTD ONLY	
13	BI3	CTD	0535	BO	50	56° 12.65	135° 07.95			170					
13	BI3	CTD	0538	EN	50	56° 12.64	135° 07.98								

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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DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE			OF		
1999			OCTOBER			W. E. RICKER			9938			10					
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			
13	BI4	CTD	0615	BE	51	56° 09.61	135° 14.41		292					CTD + BONGO			
13	BI4	CTD	0622	BO	51	56° 09.61	135° 14.28			287							
13	BI4	CTD	0627	EN	51	56° 09.67	135° 14.28										
13	BI5	CTD	0728	BE	52	56° 07.23	135° 21.51		307					CTD ONLY			
13	BI5	CTD	0736	BO	52	56° 07.26	135° 21.43			302							
13	BI5	CTD	0742	EN	52	56° 07.26	135° 21.37										
13	BI6	CTD	0822	BE	53	56° 04.32	135° 28.14		480???					Sounder jumping between			
13	BI6	CTD	0834	BO	53	56° 04.40	135° 28.27			442				480 and 570. CTD + BONGO.			
13	BI6	CTD	0841	EN	53	56° 04.42	135° 28.26										
13	BI7	CTD	0937	BE	54	56° 01.91	135° 34.66		773					CTD ONLY			
13	BI7	CTD	0954	BO	54	56° 02.02	135° 34.69		777	773				PRIM. SALINITY TOTALLY OFF!!!			
13	BI7	CTD	1007	EN	54	56° 02.12	135° 34.80							Ok by 130 m → NOT OK DEEP. QUITE.			
13	BI8	CTD	1105	BE	55	55° 58.89	135° 41.30		1293					SALINITY OK.			
13	BI8	CTD	1129	BO	55	55° 58.97	135° 41.15			1007							
13	BI8	CTD	1143	EN	55	55° 58.99	135° 41.16										

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INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH			SHIP			CRUISE					PAGE		OF	
1999		OCTOBER			W.E. RICKER			9938					11			
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		
	HECATE		STRAIT		LINE	(DAY	TIME, WITH	FISHING	BETWEEN	CASTS)						
15	H8	CTD	1154	BE	56	52° 19.30	129° 55.24		127					CTD + BONGO		
15	H8	CTD	1159	BO	56	52° 19.35	129° 55.22		146	141						
15	H8	CTD	1201	EN	56	52° 19.37	129° 55.21		149							
15	H7	CTD	1459	BE	57	52° 14.82	129° 42.44		209					CTD ONLY		
15	H7	CTD	1505	BO	57	52° 14.73	129° 42.45			203						
15	H7	CTD	1509	EN	57	52° 14.72	129° 42.45									
15	H6	CTD	1644	BE	58	52° 12.10	129° 32.37		212					CTD + BONGO		
15	H6	CTD	1650	BO	58	52° 12.08	129° 32.45			206						
15	H6	CTD	1654	EN	58	52° 12.06	129° 32.50									
15	H5	CTD	1818	BE	59	52° 09.01	129° 19.71		151					CTD ONLY		
15	H5	CTD	1823	BO	59	52° 09.02	129° 19.66			144						
15	H5	CTD	1826	EN	59	52° 09.03	129° 19.65									
15	H4	CTD	2008	BE	60	52° 05.34	129° 08.12		142					CTD + BONGO		
15	H4	CTD	2013	BO	60	52° 05.34	129° 08.12			136						
15	H4	CTD	2016	EN	60	52° 05.34	129° 08.12									

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

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

POSITION CODE -	RAD -	RADAR
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