

1998-21

CRUISE
NUMBER

9821

DAILY LOG
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

August 4 - 24 1998

VESSEL

WER

PROJECT

HAKA OFFSHORE RESEARCH

Mark Saunders - Hake

NOTE Time is GMT

NOTE: clock was wrong on computer subtract one hour for GMT
eg 0653 should be 0553

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			August			WE RICKER			9821 offshore Hake			1		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 # ACTUAL MAX SAMPLING DEPTH *	# OF BOTTLES	INIT	COMMENTS	
7	1	CTD	0553 0553	BE	001	52°56.01'	132°26.19'	GPS	220	210	104.51 104.51	0	MC	Aborted	
"	1	CTD	0701	BE	002	52°55.97'	132°26.25'	"	220	210	104.51	0		Downcast	
"	1	CTD	0704	BO	003	52°55.96'	132°26.24'	"	220	210	—	0		Upcast	
"	1	USW	0642	—	—	52°56.03'	132°26.10'	"	170	surface	1	1		Loop Sample	
"	2	CTD	0628 0628	BE	004	52°55.98'	132°28.91'	"	580	560	279m	0		Downcast	
"	2	CTD	0735	BO	005	52°56.00'	132°28.97'	"	580	560	—	0		Upcast	
"	2	CTD	0740	EN	—	52°55.96'	132°28.99'	"	580	—	—	0		end	
"	3	CTD	0712 0712	BE	006	52°55.99'	132°33.37'	"	1430	—	501.82 m	0		Downcast - Paused between 250 + 300m to correct wire angle.	
"	3	CTD	0827	BO	007	52°56.18'	132°33.70'	"	1426	1002	—	0		Aborted. * Read max depth of 930m not 1000m	
"	3	BOT	0830	BO	—	52°56.21'	132°33.74'	"	1426	1002	2	1		Bottle cast (Niskin)	
"	3	CTD	0846	BO	008	"	"	"	1417	1002	—	0		Upcast started at 1000m	
"	3	CTD	0858	EN	—	52°56.45'	132°34.07'	"	1417	—	—	0		end	
"	4	CTD	0843 0843	BE	009	52°55.91'	132°43.45'	"	1233	1000	500.51 m	0		downcast	
"	4	CTD	0956	BO	010	52°55.90'	132°43.32'	"	1238	1000	—	0		upcast	
"	4	CTD	1006	EN	—	52°55.89'	132°43.21'	"	1241	—	—	0		end	
"	5	CTD	1010 1010	BE	011	52°56.05'	132°58.45'	"	>1500	1000	498.95 m	0		downcast	
"	5	CTD	11:25	BO	018	52°56.01'	132°58.48'	"	>1500	1000	—	0		upcast - note file #12 due to cmpr glitch	
7	5	CTD	11:35	EN	—	52°55.95'	132°58.46'	GPS	71500	1000	—	0		end * there are no files #12-17	

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

TIME CODE -

BE -
BO -
EN -

beginning time of cast
bottom time of cast
end of cast

DE - deployment time
MR - messenger release
RE - recover mooring

POSITION CODE -

RAD -
GPS -
LOR -
RADAR
GLOBAL
LORAN

* control string was incorrect → depths from processed data

P = PROCESSED

CORRECTIONS IN BLACK @ Jewsbury July 99

* after file 026 started saving only to D-drive to see if zip was causing data to be lost (skipping data points)

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			August			Ricker			9821			2		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 # ACTUAL MAX SAMPLING Z	# OF BOTTLES	INIT	COMMENTS	
P 8	006	CTD	0456 ⁰³⁵⁶	BE	019	53 29.82 ^{.76}	132 58.94 ^{.95}	GPS	140	130	64.76	0	LRR	Downcast	
8	006	CTD	0502	BO	020	53 29.77	132 58.90	GPS	140	130		0		Upcast	
8	006	CTD	0904	EN	—	"	"	GPS	140	130		0		Surface	
8	006	USW	0502	—	—	53 29.77	132 58.90	—	140	surface	3	1		Loop sample	
P 8	007	CTD	0534 ⁰⁵⁰⁴³⁴	BE	021	53 30 02	133 03.53	GPS	224	—	105.75		LRR	Downcast	
8	007	CTD	0536	BO	022	53 30 05	133 03 48	GPS	224	212				Upcast	
8	007	CTD	0539	EN	—	53 30 06	133 03 59	GPS	224	212				Surface	
P 8	008	CTD	0605 ⁰⁵⁰⁵	BE	023	53 30.06 ^{.04}	133 07.18 ^{.84}	GPS	21500	—	221.56		LRR	Downcast - max depth very variable (450-520m)	
8	008	CTD	0612	BO	024	53 30 12	133 07 02	GPS	460	445				Upcast	
8	008	CTD	0618	EN	—	53 30 21	133 06 90	GPS	438	—		↓		Surface	
P 8	009	CTD	1513 ¹⁴¹³	BE	025	53 29.65 ^{.63}	133 15.83 ^{.84}	GPS	984	—	500.03	0		Downcast - wave smothered Niskin bottle.	
8	009	CTD	1546	BO	026	53 29.44	133 16 11	GPS	1022	1002		0		Niskin	
8	009	CTD	1555	EN	—	53 29.20	133 16.30	GPS	1065					Messenger failed.	
P 9	010	CTD	0534 ⁰⁴³⁴	BE	028*	54°21.71	132°59.86'	GPS	195	180	89.73			downcast	
9	010	CTD	05:38	BO	029	54°21.70'	132°59.79'	GPS	188	180				upcast	
9	010	CTD	05:41	EN	—	54°21.69'	132°59.74'	GPS	188	180		↓		end	
9	010	USW	0541	—	—	54°21.69'	132°59.74'	GPS	—	—	4	1		Loop Sample	

CAST TYPE -

BOT -
CTD -
MOR -

bottle cast
ctd
mooring

ROS -
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 cast

DE -
MR -
RE -

deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -

RADAR
GLOBAL
LORAN

$$1 \text{ m/s} \times 640 \text{ m} = 640 \text{ s} \Rightarrow \frac{640}{60} \Rightarrow 11 \text{ mins}$$

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		August		WE RICKER		9821 (HAKE OFFSHORE)		3		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 # ACTUAL MAX SAMPLING #	# OF BOTTLES	INIT	COMMENTS
P 9	011	CTD	0510 0610	BE	030	54°24.66'	133°4.94'	GPS	447	401	199.77	Ø	PMC	downcast-shortened cast due to wire angle
9	011	CTD	0619	BO	031	54°21.52'	133°4.76'	GPS	449	401	—	Ø		upcast
9	011	CTD	0625	EN	—	54°21.46'	133°4.63'	GPS	449	—	—	Ø		end
P 9	012	CTD	0751 0751	BE	032	54°21.73'	133°21.74'	GPS	353	341	169.74	Ø	PMC	downcast
9	012	CTD	0756	BO	033	54°21.74'	133°21.83'	GPS	363	341	—	Ø		upcast
9	012	CTD	0801	EN	—	54°21.80'	133°21.73'	GPS	372	341	—	Ø		end
P 9	013	CTD	0856 0856	BE	034	54°21.74'	133°34.05'	GPS	240	230	113.73	Ø	PMC	downcast
9	013	CTD	0900	BO	035	54°21.80'	133°34.00'	GPS	241	230	—	Ø		upcast
9	013	CTD	0903	EN	—	54°21.82'	133°33.94'	GPS	240	230	—	Ø		end
P 9	014	CTD	1021 1021	BE	036	54°21.56'	133°52.76'	GPS	658	644	325.61	Ø	PMC	downcast
9	014	CTD	10:31	MR	—	—	—	—	?	—	—	Ø		1st messenger away
9	014	CTD	10:32	MR	—	—	—	—	660	653	—	Ø		2nd messenger away
9	014	CTD	10:43	BO	037	54°21.60'	133°52.99'	GPS	660	602	—	Ø		upcast
9	014	CTD	10:54	EN	—	54°21.65'	133°53.17'	GPS	720	602	—	Ø		end
9	014	CTD	—	—	—	—	—	—	—	—	5	1		Niskin sample

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		MONTH		SHIP		CRUISE		PAGE		OF				
1998		August		W.E. Ricker		9821		4		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 # ACTUAL MAX SAMPLING DEPTH	# OF BOTTLES	INIT	COMMENTS
10	015	CTD	0625	BE	038	55° 0.01'	134° 32.09'	GPS	—	—	—	Ø		Downcast Aborted - CAPS ON
10	015	CTD	0630	BE	039	—	—	—	—	—	—	Ø		Aborted
P 10	015	CTD	⁰⁵³² 0632	BE	040	55° 0.01' ✓	134° 32.04' ✓	GPS	1498	1000	497.99	Ø	LLR	Downcast
10	015	CTD	0644	BO	041	54 59 974	134 31 940	GPS	1485	1000	—	Ø		Upcast
10	015	CTD	0658	EN	—	55 00.0	134 31.95	GPS	1491	—	—	Ø		Flhi.
10	015	TT	Tried tucker trawls 3 or 4x with no success. Packed it in around 12:30am after losing one codend + one full unsuccessful attempt.											
P 10	016	CTD	⁰⁸⁴³ 0943	BE	042	55° 00.10' ✓	134° 27.16' ✓	GPS	998	—	444.74	Ø		Downcast
10	016	CTD	0956	BO	043	55 00.21	134 26.68	GPS	907	874	—	Ø		Upcast → Bad wire angle ~ 45°
10	016	CTD	1006	EN	—	55 00.44	134 26.62	GPS	852	—	—	Ø		
P 10	017	CTD	⁰⁹²⁸ 1028	BE	044	55 00.01 ^{.02}	134 23.91 ^{.95}	GPS	380	303	151.54	Ø	LLR	Downcast wire angle ~ 30°
10	017	CTD	1033	BO	045	55 00.07	134 23.76	GPS	322	303	—	Ø		Upcast
10	017	CTD	1038	EN	—	55 00.07	134 23.75	GPS	324	—	—	Ø		done!
P 10	017	CTD	⁰⁹⁵⁷ 1057	BE	046	55 00.05 ✓	134 20.93 ^{.89}	GPS	232	—	105.91	Ø	LLR	Downcast
10	017	CTD	1100	BO	047	55 00.06	134 20.79	GPS	—	215	—	Ø		Upcast
10	017	CTD	1104	EN	—	55 00.08	134 20.80	GPS	230	—	—	Ø		
10	018	CTD	11:25	BE	048	55	134	GPS	—	—	—	Ø	—	on next page
10	015	USW	0625	—	—	55° 0.63	134° 32.12	GPS	—	surface	6	1		Loop Sample

CAST TYPE -

BOT -
CTD -
MOR -

bottle cast
ctd
mooring

ROS -
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 cast

DE -
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 1998			MONTH August			SHIP Ricker			CRUISE 9821			PAGE 5 OF 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 # ACTUAL MAX SAMPLING DEPTH	# OF BOTTLES	INIT	COMMENTS
P10	018	CTD	1126 ¹⁰²⁶	BE	049 ⁰⁴⁰	54 59.91 ⁹²	134 17.43 ⁴⁴	GPS	210		98.71	Ø	LRR	Downcast
10	018	CTD	1129	BO	050	54 59.93	134 17.41	GPS	209	199	—	Ø		Upcast
10	018	CTD	1132	EN	—	54 59.91	134 17.35	GPS			—	Ø		Surface
P10	019	CTD	1153 ¹⁰⁵³	BE	051 ⁰⁵⁰	55 00.02 ⁰¹	134 14.02 [✓]	GPS	196		87.6	Ø	LRR	Downcast
10	019	CTD	1157	BO	052	54 59.96	134 14.00	GPS	197	177	—	Ø		Upcast
10	019	CTD	1200	EN	—	54 59.96	134 13.96	GPS	197		—	Ø		Finished! 4AM
11	020	CTD	0623 ⁰⁶²³	—	—	—	—	—	—	—	—	—	—	started logging too soon - aborted
P11	020	CTD	0623 ⁰⁶²³	BE	053	55°40.04	134°54.52	GPS	197	162	80.62	Ø	amc	downcast - slow and short due to wire angle
11	020	CTD	0628	BO	054	55°40.14	134°54.46'	GPS	196	162	—	Ø		upcast
11	020	CTD	0631	EN	—	55°40.18	134°54.42'	GPS	196	162	—	Ø		end
11	020	USW	0631	—	—	55°40.18'	134°54.42'	GPS	196	Surface	7	1		saltwater loop
P11	021	CTD	0715 ⁰⁶¹⁵	BE	057	55 40.05 ⁰⁶	135 02.47 ²⁶	GPS	203		91.88	Ø	LRR	Downcast no 55 or 56 files logged
11	021	CTD	0720	BO	058	55 40.11	135 02.43	GPS	201	185	—	Ø		Upcast
11	021	CTD	0723	EN	—	55 40.12	135 02.44	GPS	202		—	Ø		end
P11	022	CTD	0803 ⁰⁷⁰³	BE	059	55°39.92 [✓]	135°7.19 [✓]	GPS	533→511	481	239.52	Ø	amc	downcast - wire angle ~30°, bottom depth decreasing
11	022	CTD	0810	BO	060	55°39.93'	135°7.00'	GPS	520	481	—	Ø		upcast
11	022	CTD	0817	EN	—	55°39.96'	135°6.95'	GPS	520		—	Ø		end

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	1998				MONTH	August		SHIP	w. E. Ricker			CRUISE	9801 Hake-offshore			PAGE	OF	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 # ACTUAL MAX SAMPLING DEPTH	# OF BOTTLES	INIT	COMMENTS				
P11	023	CTD	0842 ⁰⁷⁴²	BE	061	55° 39.99' ✓	135° 10.60' ✓	GPS	833		359.93	∅	LRR	Down				
11	023	CTD	0853	BO	062	55° 40.04'	135° 10.37'	GPS	745	720	—	∅		Up				
11	023	CTD	0901	EN	—	55° 40.11'	135° 10.20'	GPS	710		—	∅		end				
P11	024	CTD	0930 ⁰⁸³⁰	BE	063	55° 40.10'	135° 13.77'	GPS	1130	1075	537.01	∅	amc	downcast				
11	024	CTD	0946	MR	—	—	—	—	1121	—	—	∅		1st msgr ~ 18 mins				
11	024	CTD	0946	MR	—	—	—	—	1121	—	—	∅		2nd msgr } to bottom				
11	024	CTD	1004	—	—	55° 40.47'	135° 13.08'	GPS	1088	1002	8	1		mist'n sample				
11	024	CTD	1000	BO	064	—	—	—	1099	1020	—	∅	amc	aborted (still waiting for msgrs)				
11	024	CTD	1004	BO	065	55° 40.47'	135° 13.08'	GPS	1088	1002	—	∅		upcast				
11	024	CTD	1021	EN	—	55° 40.62'	135° 12.73'	GPS	—	—	—	∅		end				
12	025	USW	0618	—	—	56° 40.14'	135° 41.03'	GPS	166	surface	9	1		saltwater loop sample				
P12	025	CTD	0615 ⁰⁵¹⁵	BE	066	56° 40.12' ✓	135° 41.04' ✓	GPS	166		72.64	∅	LRR	Downcast				
12	025	CTD	0618	BO	067	56° 40.14'	135° 41.03'		165	151	—	∅		Upcast				
12	025	CTD	0622	EN	—	56° 40.17'	135° 41.01'		165		—	∅		End.				
P12	026	CTD	0706 ⁰⁶⁰⁶	BE	068	56° 35.57' ✓	135° 43.68' ✓		200		94.97	∅	amc	downcast				
12	026	CTD	0711	BO	069	56° 35.61'	135° 43.70'		201	191	—	∅		upcast				
12	026	CTD	0714	EN	—	56° 35.63'	135° 43.68'		—	—	—	∅		end				

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				
1998		August		W.E. Ricker		9821 Hake Offshore		7		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 # ACTUAL MAX SAMPLING DEPTH	# OF BOTTLES	INIT	COMMENTS
P12	027	CTD	0640 0740	BE	076	56°33.04' ✓	135°45.23' ✓	GPS	250	—	119.04	0	amc	downcast
12	027	CTD	0746	BO	077	56°33.08'	135°45.23'	GPS	249	240	—	0		upcast
12	027	CTD	0749	EN	—	56°33.10'	135°45.22'	GPS	248	—	—	0		end
P12	028	CTD	0819 0819	BE	078	56°30.71 30.72	135°46.54' ✓	GPS	639	—	324.73	0	LR	Downcast
12	028	CTD	0828	BO	079	56°30.73	135°46.69	GPS	678	650	—	0		Upcast
12	028	CTD	0837	EN	—	56°30.74	135°46.82	GPS	723	—	—	0		end.
P12	029	CTD	0809 0907	BE	080	56°27.99' ✓	135°48.33' ✓	GPS	1100	—	505.61	0	amc	down cast
12	029	CTD	0925	MR	—	56°28.10'	135°48.76'	GPS	1104	1012	—	0		1st msgr away
12	029	CTD	0926	MR	—	56°28.10'	135°48.76'	GPS	1105	1012	—	0		2nd msgr away
12	029	CTD	0947	—	—	56°28.21'	135°49.01'	GPS	1107	986	10	1		making bottle.
12	029	CTD	0947	BO	081	56°28.21'	135°49.01'	GPS	1107	986	—	0		upcast
12	029	CTD	0958	EN	—	56°28.36'	135°49.25'	GPS	1102	—	—	0		end
P13	030	CTD	0128 0028	BO	082	57°50.94' ✓	136°46.38' ✓	GPS	147		66.51	0	amc	downcast
13	030	CTD	0132	BE	083	57°51.00'	136°46.39'	GPS	147	135	—	0		upcast
13	030	CTD	0135	EN	—	57°51.03'	136°46.37'	GPS	—	—	—	0		end
13	030	USW	0135	—	—	57°51.03'	136°46.37'	GPS	—	—	11	1		SW Loop

wanted to
compare temp
profile to
C-DAO and
net saunders
→ CDAO ok but
net temp. Sen
is broken.

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

wanted to compare temp profile to C-DAQ and net saunders → C-DAQ ok but net temp. sensor is broken.

*adjusted wire speed to ~ 0.8 m/s to reduce gaps in data

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			August			W.E. Ricker			7821 Hake Offshore			8		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 # ACTUAL MAX SAMPLING DEPTH	# OF BOTTLES	INIT	COMMENTS	
P13	031	CTD	0627 0701	BE	084*	58° 5.97'	136° 48.63'	GPS	231	—	109.7	Ø	amc	downcast	
13	031	CTD	0733	BO	085	58° 5.92'	136° 48.62'	GPS	233	221	—	Ø		upcast	
13	031	CTD	0738	EN	—	58° 5.90'	136° 48.72'	GPS	—	—	—	Ø		end	
13	032	CTD	0857	BE	086	58 01.38	137 04 53	GPS	363	—	—	—	LRR	downcast	
13	032	CTD	0903	BO	087	58 01 46	137 04 39	GPS	364	350	—	—		upcast	
13	032	CTD	0909	EN	—	58 01 51	137 04 33	GPS	364	—	—	—		end.	
P13	032	CTD	0812 0912	BE	088	58 01 52	137 04 28	GPS	364	—	174.5	—	LLR	downcast	
13	032	CTD	0918	BO	089	58 01 53	137 04 16	GPS	366	350	—	—		upcast	
13	032	CTD	0923	EN	—	58 01 61	137 04 05	GPS	366	—	—	—		end	
P13	033	CTD	0953 1053	BE	090	57° 56.29'	137° 21.72'	GPS	163	—	74.6	—	amc	downcast	
13	033	CTD	1053	BO	091	57° 56.34'	137° 21.66'		163	150	—	—		upcast	
13	033	CTD	1100	EN	—	57° 56.36'	137° 21.62'		164	—	—	—		end	
P13	034	CTD	1044 1144	BE	092	57° 54.11'	137° 29.36'		390	—	172.55		amc	downcast	
13	034	CTD	1152	BO	093	57° 54.20'	137° 29.17'		350	344				upcast	
13	034	CTD	1157	EN	—	57° 54.26'	137° 29.04'		—					end	
P13	035	CTD	1140 1240	BE	096	57 52.45	137.34 91		923	468.67	bad wire angle = poor salinity data 0-100m			downcast (started @ 15m depth)	
13	035	CTD	1312	BO	097	57 52 67	137 34 27	✓	994	930				upcast Aborted to wait for messengers	
13	035	CTD	1312	MR				GPS	928					messengers away (very bad)	

CAST TYPE -

BOT -
CTD -
MOR -

bottle cast
ctd
mooring

ROS -
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 cast

DE -
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				
1998		August		W.E. RICKER		9821 Hake offshore Research		9		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)	ACTUAL CONSEC SAMPLE # MAX SAMPLING DEPTH IN M	# OF BOTTLES	INIT	COMMENTS
13	035	CTD	1324	BOTTLE	—	58 53.04	137 33.89		927	780	12	1	LRR	Niskin bottle sample
13	035	CTD	1325	BO	098	58 53.04	137 33.89		927	—	—	Ø		Upcast
13	035	CTD	1341	EN	—	58 53.27	137 33.55		756	—	—	Ø		end
P 13	036	CTD	2030 1929	BE	099	57 57.03 58 00.92	138 31.63 138 28.01	GPS	2096	1502	751.63	—	GS	Downcast Surface T 14.2
														At 1104 m wire came out of shive, wire > 10 m messanger only went to 230m! NO BOTTLE SAMPLE
13	036	CTD	2058	MR		58° 00.91	138° 27.78	GPS	—	1502	—	1		
13	036	CTD	2124	BO	100	58° 00.74'	138° 27.19'	GPS	—	1514	—	Ø		Upcast.
13	036	CTD	2149	EN		58° 00.78	138° 27.22	GPS	—	—	—	—		On Surface
P 13	037	CTD	2223 2122	BE	101	5758.60 5758.61	138 30.90 138 30.93	DGPS	2400	1000	501.82	—	MS	Niskin bottle Sample
13	037	CTD	2242	MR		5758.68	138 31.04	DGPS	2400	"	—	—		
13	037	CTD	2257	BO	102	5758.70	138 30.95	DGPS	2400	"	#13	1		
13	037	"	2310	EN		5758.77	138 31.03	DGPS	2400	"	—	—		
P 14	038	CTD	2237 2236	BE	103	58° 00.89' ✓	138° 28.73' ✓	GPS	1100	—	499.72	—	amc	down cast
14	038	CTD	2349	BO	104	58° 00.93'	138° 28.67'	GPS	1063	1000	—	—		upcast
14	038	CTD	0005	EN	—	58° 00.98'	138° 28.57'	GPS	—	—	—	—		end

CAST TYPE - BOT - bottle cast
CTD - ctd
MOR - mooring

RGS - 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			MONTH			SHIP			CRUISE			PAGE		OF	
1998			August			W.E. Ricker			9821 Hake Offshore Res.			10		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 # ACTUAL MAX SAMPLING DEPTH	# OF BOTTLES	INIT	COMMENTS	
P13	039	CTD	0026	BE	105	58°02.55'	138°27.34'	GPS	225	—	97.99	Ø	AMC	downcast	
H	039	CTD	0033	BO	106	58°02.56'	138°27.29'	GPS	213	201	—	Ø		upcast	
H	039	CTD	0038	EN	—	58°02.57'	138°27.28'	GPS	—	—	—	Ø		end	
H	039	USW	0039	—	—	58°02.57'	138°27.28'	GPS	—	surface	14	1		Saltwater loop	
P14	040	CTD	0113	BE	107	58°06.01'	138°24.56'	GPS	174	—	79.89	Ø	AMC	downcast	
H	040	CTD	0118	BO	108	58°06.04'	138°24.51'	GPS	173	160	—	Ø		upcast	
H	040	CTD	0121	EN	—	58°06.06'	138°24.51'	GPS	—	—	—	Ø		end	
P16	041	CTD	0819	BE	109	54°11.22'	132°21.81'	GPS	106	—	42.07	Ø	AMC	downcast	
H	041	CTD	0823	BO	110	54°11.23'	132°21.86'	GPS	106	90	—	Ø		upcast	
H	041	CTD	0825	EN	—	54°11.25'	132°21.93'	GPS	—	—	—	Ø		end	
H	042	USW	0859	—	—	54°14.55'	132°21.71'	GPS	149	surface	15	1		Saltwater loop	
P16	042	CTD	0854	BE	111	54°14.62.58	132°21.59.67	GPS	151	—	66.79	Ø	MR	downcast	
H	042	CTD	0859	BO	112	54°14.55'	132°21.71'	GPS	149	140	—	Ø		upcast	
H	042	CTD	0902	EN	—	54°14.52'	132°21.76'	GPS	148	—	—	Ø		end	
CAST TYPE - BOT - bottle cast BOS - rosette USW - sea water loop															

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	
1998			AUGUST			W.E. RICKER			9821 HAKE OFFSHORE RESEARCH			11		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 # ACTUAL MAX SAMPLING DEPTH	# OF BOTTLES	INIT	COMMENTS	
P 16	043	CTD	0822 0923	BE	113	54° 16.53' ✓	132° 21.63' ✓	GPS	192	-	86.56	0	NP	downcast	
16	043	CTD	0929	BO	114	54° 16.46'	132° 21.76'	GPS	191	181	-	0		upcast	
16	043	CTD	0933	EN	-	54° 16.46'	132° 21.84'	GPS	192	-	-	0		end	
P 16	044	CTD	0923 1023	BE	115	54° 23.15' ^{.14}	132° 21.67' ^{.69}	GPS	262	-	123.83	0	NP	downcast	
16	044	CTD	1030	BO	116	54° 23.09'	132° 21.93'	GPS	260	250	-	0		upcast	
16	044	CTD	1035	EN	-	54° 23.04'	132° 22.05'	GPS	259	-	-	0		end	
P 16	045	CTD	1003 1103	BE	117	54° 26.01' ✓	132° 21.77' ✓	GPS	342	-	166.63	0	qmc	downcast	
16	045	CTD	1112	BO	118	54° 25.96'	132° 22.03'	GPS	346	335	-	0		upcast	
16	045	CTD	1118	EN	-	54° 25.93'	132° 22.16'	GPS	-	-	-	0		end	
19	046	CTD	-	BE	119	-	-	GPS	29	25	-	0		false start	
P 19	046	CTD	0511 0611	BE	120	52° 06.58' ✓	131° 00.51' ✓	GPS	-	-	11.57	0		downcast	
19	046	CTD	0614	BO	121	52° 06.58'	131° 00.52'	GPS	-	-	-	0		upcast	
19	046	CTD	0615	BE	-	52° 06.58'	131° 00.52'	GPS	-	-	-	0		end	
19	046	USW	-	-	-	52° 06.58'	131° 00.52'	GPS	30	surface	16	1		Saltwater loop	

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

9B21 CTD notes.

① Computer clock in GMT -
however set incorrect

Real GMT = comp. clock minus one hour

0530 = 0630 - 1

② After file 026 started saving only to D: Drive
to see if data was being lost ~~at~~ (skipping data
points) due to problems writing to zip drive.

③ Zip drive failed and rendered the zip disk
unusable.

④ POTENTIAL PROBLEM with KP string as
set in CTD program.

Suspect that CTD's were only going to 1/2
the depth they should have been. i.e. a 200m
cast actually only went to 100m!