

DAILY LOG

CRUISE
NUMBER

2000-0015

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

May 31 - June 13, 2000

VESSEL

W.E. Ricker

PROJECT

Jeff Fargo - PBS Groundfish

Captain: _____ First Officer: _____

Second Officer: _____ Third Officer: _____

Mission Participants / Agencies: _____

Scientific Personnel: _____ Party Chief: _____

Name	Watch	Cabin	Name	Watch	Cabin
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Second leg of Mission: Party Chief: _____

Name	Watch	Cabin	Name	Watch	Cabin
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Data logging computer: _____
Data acquisition program: _____
CTD deck unit make: _____ model: _____ serial number: _____

Primary CTD

Make: SEA-BIRD model: 311 PLUS serial number: 0506
Primary temperature sensor serial number: 2710 Calibration date: _____
Primary conductivity sensor serial number: 2288 Calibration date: _____
Secondary temperature sensor serial number: 2095 Calibration date: _____
Secondary conductivity sensor serial number: 2280 Calibration date: _____
Other sensors: 197 TRAMS s/n: _____
Other sensors: _____ s/n: _____
Other sensors: _____ s/n: _____
Other sensors: _____ s/n: _____

Secondary CTD

Make: _____ model: _____ serial number: _____
Primary temperature sensor serial number: _____ Calibration date: _____
Primary conductivity sensor serial number: _____ Calibration date: _____
Secondary temperature sensor serial number: _____ Calibration date: _____
Secondary conductivity sensor serial number: _____ Calibration date: _____
Other sensors: _____ s/n: _____
Other sensors: _____ s/n: _____
Other sensors: _____ s/n: _____

Comments: _____

CTD SALINITY SAMPLING

Ed.c.

VESSEL: W.E. RICKER LOCATION: HECATE STRAIT CRUISE ID: 2000-15

SAMPLE NO.	DATE	DEPTH in m	STATION No.	NO. OF BOTTLES	COMMENTS
1	MAY 31, 2000	SURFACE	3	1	Ed.c.
2	MAY 31, 2000	87m	3	1	
3	JUNE 01, 2000	SURFACE	13	1	
4	JUNE 01, 2000	14m	13	1	
5	JUNE 02, 2000	SURFACE	22	1	
6	JUNE 02, 2000	28m	22	1	
7	JUNE 03, 2000	SURFACE	30	1	
8	JUNE 03, 2000	19m	30	1	
9	JUNE 04, 2000	SURFACE	37	1	
10	JUNE 04, 2000	57m	37	1	
11	JUNE 05, 2000	SURFACE	46	1	
12	JUNE 05, 2000	46m	46	1	
13	JUNE 06, 2000	SURFACE	54	1	
14	JUNE 06, 2000	22	54	1	
15	JUNE 07, 2000	SURFACE	58	1	
16	JUNE 07, 2000	89	58	1	
17	JUNE 08, 2000	SURFACE	67	1	
18	JUNE 08, 2000	102m	67	1	
19	JUNE 09, 2000	SURFACE	78	1	
20	JUNE 09, 2000	86m	78	1	
21	JUNE 10, 2000	SURFACE	88	1	
22	JUNE 10, 2000	12m	88	1	
23	JUNE 11, 2000	SURFACE	94	1	
24	JUNE 11, 2000	31	94	1	
25	JUNE 12, 2000	SURFACE	103	1	
26	JUNE 12, 2000	41	103	1	

Time - used 12 hr out of 24 hr.

UNIVERSAL TIME!

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2006					Month MAY			Ship W.E. RICKER			Cruise I.D. 2000-0015				
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments FILE #	
31	001	CTD	16:35		001	52 36.859	130 46.738		118 m	108 m			ARK	CTD001.HDR	
						52 36.21	130 46.09								
31	002	CTD	18:46		002	52 45.870	130 46.139		117	107			ARK	CTD002.HDR	
						52 41.63	130 42.32								
31	003	CTD	20:04	BE	003	52 41.84	130 47.05		99			001	ARK	SURFACE BOTTLE	
31	003	CTD	20:09	BO	003	52 41.86	130 47.18			94		002		DEPTH BOTTLE	
31	003	CTD	20:13	EN	003	52 41.87	130 47.23							CTD003.HDR	
31	004	CTD	21:22	BE	004	52 46.150	130 47.142		82				ARK	CTD004.HDR	
31	004	CTD	21:23	BO	004	52 46.152	130 47.150			75					
31	004	CTD	21:25	EN	004	52 46.152	130 47.158								
31	005	CTD	22:31	BE	005	52 48.7	130 48.2		64				JE	CTD005.HDR	
31	005	CTD	22:32	BO	005	52 48.7	130 48.3			56					
31	005	CTD	22:35	EN	005	52 48.7	130 48.3								
31	006	CTD	00:11	BE		52 47.5	130 35.8		117				JE	CTD006.HDR	
31	006	CTD	00:12	BO		52 47.5	130 35.8			111.5					
31	006	CTD	00:15	EN											

Cast type:

 BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month JUNE			Ship W. E. RICKER			Cruise I.D. 2000-0015			
Day MAY	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
31	007	CTD	01:50	BE	007	52 56.9	130 34.4		94				J.F.	CTD 007. HDR
31	007	CTD	01:56	BO	007	52 56.8	130 34.3			84				
31	007	CTD	02:01	EN	007	52 56.8	130 34.3							
1	008	CTD	13:52	BE	008	52 54.9	130 37.4		80				J.F.	CTD 008. HDR
1	008	CTD	13:59	BO	008	52 54.9	130 37.4			70				
1	008	CTD		EN	008	52 54.9	130 37.4							
1	009	CTD	15:19	BE	009	52 57.4	130 47.6		51				J.F.	CTD 009. HDR.
1	009	CTD	15:21	BO	009	52 57.4	130 47.6			41				
1	009	CTD	15:23	EN	009	52 57.4	130 47.6							
1	010	CTD	16:32	BE	010	52 58.0	130 50.4		35				J.F.	CTD 010. HDR
1	010	CTD	16:34	BO	010	52 58.1	130 50.5			27				
1	010	CTD	16:35	EN	010	52 58.1	130 50.6							
1	011	CTD	18:43	BE	011	52 56.9	131 13.9		42				JF	CTD 011. HDR
1	011	CTD	18:45	BO	011	52 56.9	131 13.9			34				
1	011	CTD	18:48	EN	011	52 56.9	131 13.8							

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year <u>2000</u>					Month <u>JUNE</u>			Ship <u>W. E. RICKER</u>			Cruise I.D. <u>0000 0015</u>			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
1	012	CTD	10:22	BE	012	52 55.2	131 15.9		92				J.F.	CTD 012. HDR
1	012	CTD	10:24	BO	012	52 55.2	131 15.9			84				
1	012	CTD	10:26	EN	012	52 55.2	131 15.9							22:26
1														
1	013	CTD	12:19	BE	013	52 59.3	130 59.5		24		3 SURF		J.F.	Water sample
1	013	CTD	12:20	BO	013	52 59.3	130 59.5			16	4 DEPTH			CTD 013. HDR
1	013	CTD	12:21	EN	013	52 59.3	130 59.5							00:20
2	014	CTD	1:55	BE	014	53 01.4	130 54.1		25				J.F.	CTD 014. HDR
2	014	CTD	01:55	BO	014	53 01.4	130 54.1			15				
2	014	CTD	1:55	EN	014	53 01.4	130 54.1							13:55
2	015	CTD	2:57	BE	015	52 59.8	130 51.0		58				J.F.	CTD 015. HDR
2	015	CTD	2:59	BO	015	52 59.8	130 51.0							
2	015	CTD		EN	015					49				14:56
2	016	CTD	3:48	BE	016	52 58.7	130 46.5		72				JF	CTD 016. HDR
2	016	CTD	3:49	BO	016	52 58.7	130 46.7							15:46
2	016	CTD		EN	016	52 58.7	130 46.7			62				

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year <u>2000</u>					Month <u>JUNE</u>			Ship <u>WE RICHER</u>				Cruise I.D. <u>2000 0015</u>		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
2	017	CTD	4:52	BE	017	53 01.2	130 45.1		97					JF
2	017	CTD	4:55	BO	017	53 01.3	130 45.2			89				CTD 0117. HDR
2	017	CTD	5:00	EN	017	53 01.3	130 45.3							16:55
2	018	CTD	6:16	BE	018	53 01.8	130 59.6		73					JF
2	018	CTD	6:18	BO	018	53 01.8	130 59.8			64				CTD 0118. HDR
2	018	CTD	6:19	EN	018	53 01.8	130 59.9							18:15
2	019	CTD	7:46	BE	019	53 07.4	130 59.4		53					JF
2	019	CTD	7:48	BO	019	53 07.4	130 59.5			45				CTD 0119. HDR
2	019	CTD	7:49	EN	019	53 07.5	130 59.4							19:46
2	020	CTD	9:12	BE	020	53 01.8	131 05.9		31					JF
2	020	CTD	9:12	BO	020	53 01.8	131 05.9			21				CTD 0120. HDR
2	020	CTD	9:13	EN	020	53 01.8	131 05.9							21:12
2	021	CTD	10:14	BE	021	53 04.3	131 09.7		38					JF
2	021	CTD	10:15	BO	021	53 04.3	131 09.7			28				22:15
2	021	CTD	10:15	EN	021	53 04.3	131 09.7							CTD 0121. HDR

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year <u>2000</u>					Month <u>JUNE</u>			Ship <u>WERICKER</u>				Cruise I.D. <u>2000 0015</u>		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
2	022	CTD	11:56	BE	022	53 15.3	131 10.5		38			2		JF Bo Hles 596
2	022	CTD	11:57	BO	022	53 15.3	131 10.5			29	Surface #5			CTD 0122. HDR
2	022	CTD	12:00	EN	022	53 15.3	131 10.5				Depth #6			23:59
3	023	CTD	1:52	BE	023	53 13.8	131 46.0		35					JF
3	023	CTD	1:52	BO	023	53 13.7	131 45.8			27				CTD 0123. HDR
3	023	CTD	1:52	EN	023	53 13.7	131 45.8							13:51
3	024	CTD	2:58	BE	024	53 16.9	131 12.1		67					JF
3	024	CTD	2:59	BO	024	53 16.9	131 12.2			60				CTD 0124. HDR
3	024	CTD	3:01	EN	024	53 16.9	131 12.1							14:59
3	025	CTD	3:53	BE	025	53 13.3	131 10.3		79					JF
3	025	CTD	3:54	BO	025	53 13.3	131 10.2			69				CTD 0125. HDR
3	025	CTD	3:56	EN	025	53 13.3	131 10.2							15:53
3	026	CTD	5:09	BE	026	53 12.5	130 48.7		111					JF
3	026	CTD	5:12	BO	026	53 12.5	130 48.6			102				CTD 0126. HDR
3	026	CTD	5:15	EN	026	53 12.5	130 48.6							17:08

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month JUNE			Ship WE RICHER				Cruise I.D. 2000015		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
3	027	CTD	6:28	BE	027	53 19.7	130 53.5		89				JF	CTD 0127. HDR
3	027	CTD	6:30	BO	027	53 19.7	130 53.5			80				18:28
3	027	CTD	6:32	EN	027	53 19.7	130 53.5							
3	028	CTD	8:43	BE	028	53 28.8	131 36.5		25				JF	CTD 0128. HDR
3	028	CTD	8:43	BO	028	53 28.7	131 36.5			17				20:43
3	028	CTD	8:44	EN	028	53 28.7	131 36.5							
3	029	CTD	10:36	BE	029	53 37.1	131 39.6		29				JF	CTD 0129. HDR
3	029	CTD	10:37	BO	029	53 37.1	131 39.6			20				22:36
3	029	CTD	10:37	EN	029	53 37.1	131 39.6							
3	030	CTD	12:03	BE	030	53 36.6	131 33.6		29		surface = #7			Water bottle
3	030	CTD	12:03	BO	030	53 36.6	131 33.6			19	depth = #8			CTD 0130. HDR
3	030	CTD	12:03	EN	030	53 36.6	131 33.6							00:01
4	031	CTD	1:56	BE	031	53 20.7	131 02.6		54					CTD 0131. HDR
4	031	CTD	1:57	BO	031	53 23.5	131 02.4			44				13:56
4	031	CTD	1:58	EN	031	53 23.5	131 02.3							

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
4	Ø32	CTD	1501	BE	Ø32	53 22.1	131 00.1		82				JF	CTD 0132. HDR
4	Ø32	CTD	1503	BO	Ø32	53 22.0	131.00.0			72	72			15:02
4	Ø32	CTD	1505	EN	Ø32	53 22.0	130 59.9							
4	Ø33	CTD	16:02	BE	Ø33	53 22.3	130 58.7		89				JF	CTD 0133. HDR
4	Ø33	CTD	16:04	BO	Ø33	53 22.4	130 58.5			80	80			16:03
4	Ø33	CTD	16:06	EN	Ø33	53 22.4	130 58.4							
4	Ø34	CTD	17:28	BE	Ø34	53 27.9	130 50.2		111				JF	CTD 0134. HDR
4	Ø34	CTD	17:30	BO	Ø34	53 27.9	130 49.9			101	101			
4	Ø34	CTD	17:32	EN	Ø34	53 27.9	130 49.9							
4	Ø35	CTD	19:43	BE	Ø35	53 32.1	131 15.0		23				JF	CTD 0135. HDR
4	Ø35	CTD	19:44	BO	Ø35	53.32.2	131 15.0			15	15			
4	Ø35	CTD	19:45	EN	Ø35	53 32.2	131 15.0							
4	Ø36	CTD	2111	BE	Ø36	53 35.1	131 06.8		57		57		JF	CTD 0136. HDR
4	Ø36	CTD	2112	BO	Ø36	53 35.1	131 06.8			48				
4	Ø36	CTD	2113	BN	Ø36	53 35.1	131 06.8							

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year <u>2000</u>					Month <u>JUNE</u>			Ship <u>WE RICHER</u>			Cruise I.D. <u>20000015</u>			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
4	037	CTD	2254	BE	037	53 37.2	130 49.4		61					J.F. CTD 0137. HDR
4	037	CTD	2255	BO	037	53 37.2	130 49.2			51				Water bottle
4	037	CTD	2257	EN	037	53 37.2	130 49.2							
5	038	CTD	1405	BE	038	53 44.0	130 45.2		128					JF
5	038	CTD	1407	BO	038	53 44.0	130 45.2			118				CTD 0138. HDR
5	038	CTD	1410	EN	038	53 43.9	130 45.3							
5	039	CTD	1505	BE	039	53 41.5	130 46.9		63					JF
5	039	CTD	1506	BO	039	53 41.4	130 46.9			53				CTD 0139. HDR
5	039	CTD	1508	EN	039	53 41.4	130 47.0							
5	040	CTD	1558	BE	040	53 42.5	130 51.6		51					JF
5	040	CTD	1559	BO	040	53 42.5	130 51.6			42				CTD 0140. HDR
5	040	CTD	1600	EN	040	53 42.5	130 51.6							
5	041	CTD	1658	BE	041	53 40.4	130 46.3		74					JF
5	041	CTD	1700	BO	041	53 40.3	130 46.3			65				CTD 0141. HDR
5	041	CTD	1702	EN	041	53 40.3	130 46.3							

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year <u>2000</u>					Month <u>JUNE</u>			Ship <u>WE RICHER</u>			Cruise I.D. <u>20000015</u>			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
5	Ø42	CTD	1748	BE	Ø42	53 39.0	130 49.4		47					JF
5	Ø42	CTD	1749	BO	Ø42	53 38.9	130 49.2			39				CTD Ø42.HDR
5	Ø42	CTD	1750	EN	Ø42	53 38.9	130 49.2							
5	Ø43	CTD	1842	BE	Ø43	53 36.9	130 46.7		86					JF
5	Ø43	CTD	1844	BO	Ø43	53 36.9	130 46.6			79				
5	Ø43	CTD	1846	EN	Ø43	53 36.9	130 46.6							
5	Ø44	CTD	2113	BE	Ø44	53 43.0	131 17.0		41	41				JF
5	Ø44	CTD	2114	BO	Ø44	53 43.0	131 16.9			32				CTD Ø144.HDR
5	Ø44	CTD	2115	EN	Ø44	53 43.0	131 16.9							21:13
5	Ø45	CTD	2257	BE	Ø45	53 47.1	131 13.7		37	37				JF
5	Ø45	CTD	2257	BO	Ø45	53 47.1	131 13.7			27				CTD Ø145.HDR
5	Ø45	CTD	2258	EN	Ø45	53 47.1	131 13.7							
5	Ø46	CTD	0039	BE	Ø46	53 48.1	130 59.8		56					JF CTD Ø146.HDR
5	Ø46	CTD	0040	BO	Ø46	53 48.1	130 59.7			48	11 SURFACE			Water samples
5	Ø46	CTD	0041	EN	Ø46	53 48.1	130 59.7				12 DEPTH			

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year <u>2000</u>					Month <u>JUNE</u>			Ship <u>WE RICKER</u>			Cruise I.D. <u>20000015</u>			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
6	047	CTD	1433	BE	047	53 55.0	130 54.9		65					JF
6	047	CTD	1435	BO	047	53 55.0	130 54.9			56				CTD 047. HDR
6	047	CTD	1437	EN	047	53 55.0	130 54.9							
6	048	CTD	1543	BE	048	53 52.5	130 52.7		88					JF
6	048	CTD	1545	BO	048	53 52.5	130 52.6			78				CTD 0148. HDR
6	048	CTD	1546	EN	048	53 52.5	130 52.6							
6	049	CTD	1704	BE	049	53 54.8	131 03.7		56					JF
6	049	CTD	1705	BO	049	53 54.9	131 03.7			45				CTD 0149. HDR
6	049	CTD	1706	EN	049	53 54.9	131 03.7							
6	050	CTD	1822	BE	050	53 57.2	131 02.3		75					JF
6	050	CTD	1824	BO	050	53 57.2	131 02.3			65				CTD 0150. HDR
6	050	CTD	1825	EN	050	53 57.2	131 02.3							
6	051	CTD	1930	BE	051	53 59.1	131 08.1		37					JF
6	051	CTD	1931	BO	051	53 59.1	131 08.1			27				CTD 0151. HDR
6	051	CTD	1932	EN	051	53 59.1	131 08.1							

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year <u>2000</u>					Month <u>JUNE</u>			Ship <u>WE RICKER</u>				Cruise I.D. <u>2000 0015</u>		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
6	052	CTD	2038	BE	052	53 59.8	131 06.7		32					JF
6	052	CTD	2039	BO	052	53 59.7	131 06.7			23				CTD 0152.HDR
6	052	CTD	2041	EN	052	53 59.9	131 06.7							
6	053	CTD	2202	BE	053	53 57.5	131 16.8		26					JF
6	053	CTD	2202	BO	053	53 57.5	131 16.8			17				CTD 0153.HDR
6	053	CTD	2204	EN	053	53 57.5	131 16.8							
6	054	CTD	2449	BE	054	54 07.4	131 14.8		32			13 SURFITS	JF	00:50
6	054	CTD	2450	BO	054	54 07.5	131 14.9			22		14 DEPTH	WHITER SAMPLES	
6	054	CTD	2451	EN	054	54 07.5	131 14.9							CTD 0154.HDR
7	055	CTD	1340	BE	055	54 02.7	131 05.3		67					JF
7	055	CTD	1342	BO	055	54 02.1	131 05.2			56				CTD 0155.HDR
7	055	CTD	1344	EN	055	54 02.1	131 05.1							
7	056	CTD	1420	BE	056	54 04.0	131 03.6		85					JF
7	056	CTD	1422	BO	056	54 04.0	131 03.5			77				CTD 0156.HDR
7	056	CTD	1425	EN	056	54 04.0	131 03.5							

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month JUNE			Ship WE RICKER			Cruise I.D. 2000 0015			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
7	057	CTD	1522	BE	057	54 05.5	131 07.2		31					JF
7	057	CTD	1523	BO	057	54 05.6	131 07.0			21				CTD 0157. HDR
7	057	CTD	1525	EN	057	54 05.6	131 07.0							
7	058	CTD	1616	BE	058	54 07.0	131 03.7		99		15	1	SURFACE	JF
7	058	CTD	1617	BO	058	54 07.0	131 03.5			89	16	1	DEPTH	CTD 0158. HDR
7	058	CTD	1621	EN	058	54 07.0	131 03.5							
8	059	CTD	1700	BE	059	54 11.8	131 04.6		69					JF
8	059	CTD	1702	BO	059	54 11.9	131 04.7			59				CTD 0159. HDR
8	059	CTD	1703	EN	059	54 11.9	131 04.8							16:59
8	060	CTD	1757	BE	060	54 11.5	131 09.1		31					JF
8	060	CTD	1758	BO	060	54 11.5	131 09.0			22				CTD 0160. HDR
8	060	CTD	1800	EN	060	54 11.5	131 09.0							
8	061	CTD	1847	BE	061	54 14.2	131 04.3		57					JF CTD 0161. HDR
8	061	CTD	1848	BO	061	54 14.2	131 04.2			48				
8	061	CTD	1850	EN	061	54 14.2	131 04.2							

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month JUNE			Ship W.E. RICHER			Cruise I.D. 2000 0015			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
8	062	CTD	1942	BE	062	54 18.2	131 04.9		108					JF
8	062	CTD	1944	BO	062	54 18.3	131 04.9			101				CTD 0162.HDR
8	062	CTD	1948	EN	062	54 18.3	131 04.9							
8	063	CTD	2037	BE	063	54 17.7	131 03.5		106					JF
8	063	CTD	2039	BO	063	54 17.8	131 03.6			96				CTD 0163.HDR
8	063	CTD	2041	EN	063	54 17.8	131 03.5							
8	064	CTD	2144	BE	064	54 17.5	131 09.0		48					JF
8	064	CTD	2146	BO	064	54 17.4	131 08.9			39				CTD 0164.HDR
8	064	CTD	2148	EN	064	54 17.4	131 08.9							
8	065	CTD	2245	BE	065	54 21.0	131 06.6		86					JF CTD 0165.HDR
8	065	CTD	2247	BO	065	54 21.1	131 06.2			77				
8	065	CTD	2250	EN	065	54 21.1	131 06.2							
8	066	CTD	2348	BE	066	54 21.3	131 09.1		67					CTD 0166.HDR
8	066	CTD	2350	BO	066	54 21.3	131 09.0			58				
8	066	CTD	2352	BN	066	54 21.3	131 08.9							

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month JUNE			Ship W.E. RICKER				Cruise I.D. 2000 0015		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
8	067	CTD	0041	BE	067	54 23.0	131 05.7		112				JF	CTD 0167 HDR Repeated as
8	067	CTD	0044	BO	067	54 22.9	131 05.6			10.1	17			1 surface no messenger sent
8	067	CTD	0047	EN	067	54 22.9	131 05.6				18			1 depth first time!
9	068	CTD	1346	BE	068	54 12.2	131 45.6		93				JF	CTD 0168 HDR
9	068	CTD	1348	BO	068	54 12.3	131 45.4			85				
9	068	CTD	1351	EN	068	54 12.3	131 45.4							
9	069	CTD	1442	BE	069	54 11.5	131 43.3		55				JF	CTD 0169 HDR
9	069	CTD	1444	BO	069	54 11.5	131 43.3			47				
9	069	CTD	1445	EN	069	54 11.5	131 43.4							
9	070	CTD	1602	BE	070	54 16.0	131 33.5		101				JF	CTD 0170 HDR
9	070	CTD	1605	BO	070	54 16.1	131 33.5			91				
9	070	CTD	1608	EN	070	54 16.1	131 33.6							
9	071	CTD	1644	BE	071	54 15.4	131 36.9		108				JF	CTD 0171 HDR
9	071	CTD	1647	BO	071	54 15.5	131 36.9			98				
9	071	CTD	1650	EN	071	54 15.5	131 36.9							

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month JUNE			Ship WE RICKER				Cruise I.D. 2000 0015		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
9	072	CTD	1743	BE	072	54 13.6	131 44.2		116				JF	CTD 0172. HDR
9	072	CTD	1746	BO	072	54 13.6	131 44.1			106				
9	072	CTD	1749	EN	072	54 13.6	131 44.0							
9	073	CTD	1853	BE	073	54 17.0	131 36.1		133				JF	CTD 0173. HDR
9	073	CTD	1856	BO	073	54 17.0	131 36.0			123				
9	073	CTD	1859	EN	073	54 16.9	131 36.0							
									45					CTD 0174. HDR
9	074	CTD	1959	BE	074	54 15.8	131 28.9		45				JF	
9	074	CTD	2000	BO	074	54 15.8	131 28.7			35				
9	074	CTD	2001	EN	074	54 15.8	131 28.6							
9	075	CTD	2057	BE	075	54 18.1	131 21.1		72				JF	CTD 0175. HDR
9	075	CTD	2059	BO	075	54 18.2	131 20.8			62				
9	075	CTD	2100	EN	075	54 18.2	131 20.7							
9	076	CTD	2218	BE	076	54 16.2	131 29.5		49				JF	
9	076	CTD	2219	BO	076	54 16.2	131 29.6			39				
9	076	CTD	2220	EN	076	54 16.2	131 29.6							

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year <u>2000</u>					Month <u>JUNE</u>			Ship <u>WE RICKER</u>			Cruise I.D. <u>2000 0015</u>			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
9	077	CTD	2317	BE	077	54 18.3	131 22.3		85					JF
9	077	CTD	2319	BO	077	54 18.2	131 22.2			75				CTD 0177. HDR
9	077	CTD	2321	EN	077	54 18.2	131 22.1							
9	078	CTD	0003	BE	078	54 19.7	131 16.8		106		19	1	surface	Water JF Sample
9	078	CTD	0006	BO	078	54 19.7	131 16.7			97	20	1 depth		
9	078	CTD	0009	EN	078	54 19.6	131 16.6							CTD 0178. HDR
10	079	CTD	1330	BE	079	54 24.7	131 07.2		112					JF
10	079	CTD	1333	BO	079	54 24.6	131 07.2			102				
10	079	CTD	1335	EN	079	54 24.6	131 07.2							CTD 0179. HDR
10	080	CTD	1428	BE	080	54 28.8	131 08.8		129					JF
10	080	CTD	1433	BO	080	54 28.9	131 08.9			119				CTD 0180. HDR
10	080	CTD	1436	BN	080	54 28.9	131 08.9							
10	081	CTD	1538	BE	081	54 26.6	131 15.5		143					JF
10	081	CTD	1538	BO	081	54 26.5	131 15.6			133				CTD 0181. HDR
10	081	CTD	1541	BN	081	54 26.4	131 15.6							

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year <u>2000</u>					Month <u>JUNE</u>			Ship <u>W. E. RICKER</u>				Cruise I.D. <u>2000 0015</u>		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
10	082	CTD	1633	BE	082	54 29.5	131 16.4		127					JF
10	082	CTD	1636	BO	082	54 29.4	131 16.5			119				
10	082	CTD	1639	EN	082	54 29.4	131 16.5							JF
10	083	CTD	1808	BE	083	54 21.6	131 17.4		126					JF
10	083	CTD	1810	BO	083	54 21.6	131 17.4			117				CTD 0183.HDR
10	083	CTD	1813	EN	083	54 21.6	131 17.4							
10	084	CTD	1927	BE	084	54 19.8	131 22.0		150					JF
10	084	CTD	1930	BO	084	54 19.8	131 22.0			140				CTD 0184.HDR
10	084	CTD	1933	EN	084	54 19.9	131 22.0							
10	085	CTD	2031	BE	085	54 20.5	131 16.1		99					JF (oops!)
10	085	CTD	2035	BO	085	54 20.5	131 16.1			99				CTD 0185.HDR
10	085	CTD	2040	EN	085	54 20.5	131 16.1							
10	086	CTD	2117	BE	086	54 18.9	131 15.6		84					JF
10	086	CTD	2119	BO	086	54 19.0	131 15.6			75				CTD 0186.HDR
10	086	CTD	2121	EN	086	54 19.0	131 15.5							

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year	2000				Month	JUNE				Ship	W. E. RICKER			Cruise I.D. 2000 0015		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments		
10	087	CTD	2301	BE	087	54 14.1	131 22.7		26				JF			
10	087	CTD	2302	BO	087	54 14.1	131 22.6			17				CTD 0187. HDR		
10	087	CTD	2303	EN	087	54 14.0	131 22.5									
													JF			
10	088	CTD	0055	BE	088	54 13.4	131 10.3		20		21	1	SURFACE	WATER SAMPLES		
10	088	CTD	0056	BO	088	54 13.4	131 10.3			14	22	1	DEPTH	CTD 0188. HDR		
10	088	CTD	0057	EN	088	54 13.3	131 10.1									
11	089	CTD	1415	BE	089	54 08.8	131 04.9		35				JF	CTD 0189. HDR		
11	089	CTD	1417	BO	089	54 08.8	131 04.7			27						
11	089	CTD	1419	EN	089	54 08.8	131 04.7									
11	090	CTD	1627	BE	090	54 03.2	131 18.1		31				JF	CTD 0190. HDR		
11	090	CTD	1629	BO	090	54 03.3	131 18.1			21						
11	090	CTD	1630	EN	090	54 03.3	131 18.1									
11	091	CTD	1826	BE	091	53 55.2	131 19.7		24				JF	CTD 0191. HDR		
11	091	CTD	1827	BO	091	53 55.2	131 19.5			13						
11	091	CTD	1828	EN	091	53 55.3	131 19.5									

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year <u>2000</u>					Month <u>JUNE</u>			Ship <u>W.E. RICHER</u>			Cruise I.D. <u>2000 0015</u>			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
11	092	CTD	2006	BE	092	53 53.3	131 09.5		45				JF	CTD 0192. HDR
11	092	CTD	2008	BO	092	53 53.3	131 09.5			36				
11	092	CTD	2009	EN	092	53 53.4	131 09.4							
11	093	CTD	2145	BE	093	53 45.9	131 15.1		39				JF	CTD 0193. HDR
11	093	CTD	2147	BO	093	53 45.9	131 15.0			29				
11	093	CTD	2148	EN	093	53 45.9	131 15.0							
11	094	CTD	2259	BE	094	53 42.3	131 16.2			41			JF	CTD 0194. HDR
11	094	CTD	2300	BO	094	53 42.3	131 16.3				23 SURFACE	1		WATER SAMPLES
11	094	CTD	2301	EN	094	53 42.3	131 16.3				24 DEPTH	1		
12	095	CTD	1346	BE	095	53 45.6	130 49.2		108					JF
12	095	CTD	1348	BO	095	53 45.6	130 49.2			98				CTD 0195. HDR
12	095	CTD	1351	EN	095	53 45.6	130 49.2							
12	096	CTD	1428	BE	096	53 45.5	130 51.1		95				JF	
12	096	CTD	1431	BO	096	53 45.5	130 51.1			86				CTD 0196. HDR
12	096	CTD	1433	EN	096	53 45.5	130 51.1							

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year <u>2000</u>					Month <u>JUNE</u>			Ship <u>W. E. RICKER</u>				Cruise I.D. <u>2000 0015</u>		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
12	097	CTD	1538	BE	097	53 42.6	130 52.3		49					JF
12	097	CTD	1540	BO	097	53 42.6	130 52.4			37				CTD 0197. HDR
12	097	CTD	1541	EN	097	53 42.6	130 52.5							
12	098	CTD	1702	BE	098	53 39.2	130 58.0		43					JF
12	098	CTD	1704	BO	098	53 39.4	130 58.1			35				
12	098	CTD	1705	EN	098	53 39.4	130 58.0							
12	099	CTD	1846	BE	099	53 34.2	130 47.6		91					JF
12	099	CTD	1848	BO	099	53 34.2	130 47.6			82				CTD 0199. HDR.
12	099	CTD	1850	EN	099									
12	100	CTD	2008	BE	100	53 27.9	130 52.6		100					JF CTD 01100. HDR
12	100	CTD	2011	BO	100	53 27.9	130 52.7			92				
12	100	CTD	2013	EN	100	53 27.9	130 52.7							
12	101	CTD	2216	BE	101	53 17.6	130 51.3		134					JF CTD 01101. HDR
12	101	CTD	2219	BO	101	53 17.6	130 51.3			124				
12	101	CTD	2221	EN	101	53 17.6	130 51.3							

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month JUNE			Ship W. E. RICKER				Cruise I.D. 2000 0015			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments	
12	102	CTD	2355	BE	102	53 14.4	131 01.3		65				JF	CTD01102. HDR	
12	102	CTD	2357	BO	102	53 14.5	131 01.1			57					
12	102	CTD	2358	EN	102	53 14.5	131 01.1						J		
12	103	CTD	0136	BE	103	53 05.6	131 00.2		51		25 SURFACE	1	JF	WATER SAMPLES	
12	103	CTD	0138	BO	103	53 05.6	131 00.0			41	26 DEPTH	1		CTD01103. HDR	
12	103	CTD	0139	EN	103	53 05.6	131 00.0								
13	104	CTD	1342	BE	104	52 57.3	130 40.7		54				JF	CTD01104. HDR	
13	104	CTD	1343	BO	104	52 57.3	130 40.7			43					
13	104	CTD	1345	EN	104	52 57.3	130 40.7								
13	105	CTD	1604	BE	105	52 47.2	130 54.3		50				JF	CTD01105. HDR	
13	105	CTD	1605	BO	105	52 47.2	130 54.2			42					
13	105	CTD	1607	EN	105	52 47.2	130 54.2								
13	106	CTD	1726	BE	106	52 43.6	130 54.7		66				JF	CTD01106. HDR	
13	106	CTD	1728	BO	106	52 43.6	130 54.6			56					
13	106	CTD	1730	EN	106	52 43.7	130 54.6								

Cast type:

BOT = otter 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 time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

[illegible]

Cast type:

BOT = otter board
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 time

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