

DAILY LOG BOOK

MISSION
NUMBER

2005-28

DATE:

From:

OCT 26

to:

NOV 23

VESSEL:

M.V. FROSTI

PROJECT:

WELCH/TRUDEL Hi SEAS SALMON

INSTITUTE OF OCEAN SCIENCES
OCEAN SCIENCES AND PRODUCTIVITY DIVISION
SIDNEY, BC, CANADA

Captain: JOHN ROACH
 Second Officer: _____
 First Officer: _____
 Third Officer: _____

Second Officer: _____
First Officer: _____
Third Officer: _____

Mission Participants / Agencies: 105 PBS

Scientific Personnel:
Name _____
Party Chief: JOHN MORRIS
Weight _____

Name	Watch	Cabin	Name	Watch	Cabin
TYLER ZUSKOWSKI			JOHN MORRIS		

TYLER ZUBKOWSKI

MARY TITHEISS

CAADAC?

How Git MAC LEAN

Second leg of Mission:

Name _____ Party Chief: _____
W-41 Cr: _____

Name	Watch Cabin	Watch Cabin
Party Chief:		

Data logging computer:

Data acquisition program: _____

CTD deck unit make: _____ model: _____ serial number: _____

Primary CTD

Make: SBC model: 25 serial number: 0334

Primary temperature serial number: 4054
model: 23 serial

Primary conductivity serial number: 2754

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer:	Model:
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Fluorometer: Model _____ Cable gain: _____
 _____ model.

Oxygen sensor: SBC 43 Cable girth: _____ s/n: _____
 Model: 43 P, S or NO pump? _____

PAR sensor: _____ Model: 43 sn: 0047 P, S or NO pump? P

Other sensors: _____ Model: _____ s/n: _____

Other sensors: _____ s/n: _____ P, S or NO pump? _____

Other sensors: _____ s/n: _____ P, S or NO pump? _____

Other sensors: _____ s/n: _____ P, S or NO pump? _____

Secondary CTD

Make: _____ model: _____ serial number: _____
Primary temperature: _____

Primary temperature serial number: _____ model: _____

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer: _____ Model: _____

Fluorometer: Model _____
Model: _____
Cable gain: _____

Current model: _____ Cable gain: _____ s/n: _____ P, S or NO pump? _____
Oxygen sensor: _____ Model: _____

Model: _____ s/n: _____ P, S or NO pump? _____
PAR sensor: _____ Model: _____

Other sensors: _____ s/n: _____
Model: _____

Other sensors: _____ s/n: _____ P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump? _____

Other sensors: _____ s/n: _____ P, S or NO pump? _____

CTD calibration bottle location (height above CTD in metres):

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>OCTOBER</i>				Year <i>2005</i>			Ship <i>F.V. FROST</i>				Cruise ID <i>2005-28</i>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
27	IVIO1	16:05	BE	CTD	US	001	48 50.2	125 16.03	102	90	001	1			SALINITY + NUTS
27	IVIO1	16:02	BO				48 50.22	125 16.06							CHLORO
27	IVIO1	16:10	EN				48 50.25	125 16.08							
27	IVIO1	16:21	BE	VERTICAL BONGO		002	48 50.36	125 16.23	95	85	002				
27	IVIO1	16:46	BE	SURFACE TRAWL		003	48 50.78	125 16.567	90						
27	IVIO2	17:51	BE	VERTICAL BONGO		004	48 54.76	125 12.28	98	86	004				
27	IVIO2	18:08	BE	CTD		005	48 54.71	125 12.56	97.8	86					NOTS, CHLORO
27	IVIO2	18:05	BO				48 54.70	125 12.60	97.3						
27	IVIO2	18:08	END				48 54.70	125 12.67	97						
27	IVIO2	18:23	BE	SURFACE TRAWL		006	48 54.80	125 12.315	97						
27	IVIO3	20:34	BE	BONGO		007	48 57.75	125 06 98	95	85	007				
27	IVIO3	20:36	BO	BONGO			48 57.75	125 07 04	95						
27	IVIO3	20:39	EN	BONGO			48 57.76	125 07.05	95						
27	IVIO3	20:45	BE	CTD		008	48 57.77	125 07.12	95	85					SALINITY + NUTS
27	IVIO3	20:46	BO	"			48 57.77	125 07.13	95.5						CHLORO
27	IVIO3	20:49	EN	"			48 57.78	125 07.15	95.5						
27	IVIO3	21:07	BE	SURFACE TRAWL		009	48 56.74	125 07.54	92						

Cast type:

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bottle firing method:

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							Latitude	Longitude							
28	IUI04	15:11	BE	BONGO		010	48 55.463	125 27.35	53	40					
28	IUI04	15:19	BE	CTD		011	48 55.615	125 27.314	51	41					SALINITY, NUT + CHLORO
28	IUI04	15:20	BO				48 55.638	125 27.310							
28	IUI04	15:21	EN				48 55.657	125 27.309							
28	IUI04	15:41		SURFACE TRAWL		012	48 55.639	125 26.590	51						
28	IUE05	15:30	BE	BONGO		013	48 57.749	125 21.092	39	29					
28	IUE05	16:58	BE	CTD		014	48 57.827	125 20.997	39	30					NUTS CHLORO
28	IUI05	16:59	BO				48 57.837	125 20.986	31	29					
28	IUI05	17:01	EN				48 57.848	125 20.970							
28	IUI05	17:18	BE	SURFACE TRAWL		015	48 58.082	125 20.28							
28	IUI06	18:42	BE	BONGO		016	48 56.477	125 14.888	63	53					SALINITY, NUTS, CHLORO
28	IUI06	18:51	BE	CTD		017	48 56.461	125 14.789	63	53					
28	IUI06	18:52	BO				48 56.453	125 14.738							
28	IUI06	18:53	EN				48 56.452	125 14.718							
28	IUI06	19:04	BE	SURFACE TRAWL		018	48 56.333	125 14.253	66						
28	IUI07	21:11	BE	BONGO		019	48 54.924	125 01.514	107	97					
28	IUI07	21:20	BE	CTD		20	48 55.011	125 01.535	100	90					NUTS CHLORO
28	IUI07	21:22	BO				48 55.029	125 1.532							

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							Latitude	Longitude							
28	IUTO7	21:25	RM	CTD		20	48 53.043	125 01.528	107	97					
28	IUTO7	21:40	RM	SURFACE TRAWL		21	48 54.480	125.01.60	136						
28	IUTO8	22:30	BE	BONGO		22	48 53.249	125 05.341	143	133					
28	IUTO8	22:40	BE	CTD		23	48 53.391	125 05.138	147	137					SALINITY / NOTS + CHLORO.
28	IUTO8	22:43	BO	"			48 53 408	125 05 00	147	137					
28	IUTO8	22:46	EN	"			48 53 445	125 04.996	147	137					
28	IUTO8	22:58	BE	SURFACE TRAWL		24	48 53 121	125 05.514	142						
29	IUTO9	00:05	BE	BONGO		25	48 50 368	125 9.324	77	70					
29	IUTO9	00:09	BE	CTD		26	48 50 442	125 9.203	80	70					NOTS, CHLORO
29	IUTO9	00:10	BO	"			48 50 448	125. 9.179							
29	IUTO9	00:11	RM	"			48 50 452	125 9.163							
29	IUTO9	00:23	BE	SURFACE TRAWL		27	48 50 117	125. 9.688							
30	IUTO					28	49	125							

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29	EPO7	14:11	BE	BONGO.		028	49 09.845	126 59.701	370	150					
29	EPO7	14:12	BE	CTD		029	49 09.915	126 59.679		250					
29	EPO7	14:27	BO				49 09.953	126 59.660							SANIKITY, NUTS, CHLORO.
29	EPO7	14:33	EN				49 10.007	126 59.569							
29	EPO7	14:46	BE	SURFACE TRAWL		030	49 10.677	126 59.007	267						
29	EPO6	15:52	BE	BONGO		031	49 14.089	126 54.222	160	150					
29	EPO6	16:06	BE	CTD		032	49 14.307	126 54.368		150					* OFF-COURSE FROM DESIGNATED TRANSECT,
29	EPO6	16:09	BO				49 14.357	126 54.386							TOO FAR NORTH
29	EPO6	16:13	EN				49 14.429	126 54.425							NUTS, CHLORO.
29	EPO6	16:25	BE	SURFACE TRAWL		033	49 14.811	126 53.754	156						
29	EPO5	18:23	BE	BONGO.		034	49 12.337	126 50.002	197	140					
29	EPO5	18:35	BE	CTD		035	49 12.560	126 50.097		140					SANIKITY, NUTS, CHLORO.
29	EPO5	18:38	BO				49 12.584	126 50.113							* BACK-ON DESIGNATED TRANSECT.
29	EPO5	18:43	EN				49 12.648	126 50.154							
29	EPO5	19:05		SURFACE TRAWL		036	49 12.921	126 49.487	140						

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29	<i>EP04</i>	<i>20:05</i>	<i>BE</i>	<i>BONGO</i>		<i>037</i>	<i>49 14.42</i>	<i>126 45 59</i>	<i>123</i>	<i>113</i>						
29	<i>EP04</i>	<i>20:14</i>	<i>BE</i>	<i>CTD</i>		<i>038</i>	<i>49 14 59</i>	<i>126 45 71</i>	<i>122.9</i>	<i>113</i>					<i>NUTS, CHLORO.</i>	
29	<i>EP04</i>	<i>20:16</i>	<i>BO</i>				<i>49 14 82</i>	<i>126 45.73</i>								
29	<i>EP04</i>	<i>20:19</i>	<i>NE</i>				<i>49 14.87</i>	<i>126 45.76</i>								
29	<i>EP04</i>	<i>20:30</i>	<i>BE</i>	<i>SURFACE TRAWL</i>		<i>039</i>	<i>49 15.042</i>	<i>126 45.331</i>	<i>116.</i>							
29	<i>EP03</i>	<i>21:32</i>	<i>BE</i>	<i>BONGO</i>		<i>040</i>	<i>49 16 36</i>	<i>126 40 85</i>	<i>113</i>	<i>103</i>						
29	<i>EP03</i>	<i>21:42</i>	<i>BE</i>	<i>CTD</i>		<i>041</i>	<i>49 16.503</i>	<i>126 40.967</i>	<i>113</i>	<i>103</i>					<i>SAFETY, NUTS, CHLORO.</i>	
29	<i>EP03</i>	<i>21:44</i>	<i>BO</i>			<i>"</i>	<i>49 16.535</i>	<i>126 40.988</i>	<i>113</i>							
29	<i>EP03</i>	<i>21:46</i>	<i>EN</i>			<i>"</i>	<i>49 16 574</i>	<i>126 41.019</i>	<i>113</i>							
29	<i>EP03</i>	<i>21:58</i>	<i>BE</i>	<i>SURFACE TRAWL</i>		<i>042</i>	<i>49 16.852</i>	<i>126 40.667</i>	<i>109.</i>							
29	<i>EP02</i>	<i>22:54</i>	<i>BE</i>	<i>BONGO</i>		<i>043</i>	<i>49 18.842</i>	<i>126 36.332</i>	<i>86</i>	<i>75.</i>						
29	<i>EP02</i>	<i>23:05</i>	<i>BE</i>	<i>CTD</i>		<i>044</i>	<i>49 19.032</i>	<i>126 36.361</i>	<i>84</i>	<i>75.</i>					<i>NUTS, CHLORO</i>	
29	<i>EP02</i>	<i>23:06</i>	<i>BO</i>				<i>49 19.073</i>	<i>126 36.362</i>								
29	<i>EP02</i>	<i>23:08</i>	<i>EN</i>				<i>49 19.108</i>	<i>126 36.360</i>								
29	<i>EP02</i>	<i>23:20</i>	<i>BE</i>	<i>SURFACE TRAWL</i>		<i>045</i>	<i>49 19.571</i>	<i>126 35.685</i>	<i>70.</i>							

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

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							Latitude	Longitude							
30	EP01	0019	BE	BONGO		046	49°21.10S	126°31.47W	31	21					
30	EP01	0026	BE	CTD		047	49°21.144	126°31.622	31	21					SALINITY, NUTS, CHLORO
30	EP01	0026	BO	"			49°21.150	126°31.635							
30	EP01	0027	EN	"			49°21.156	126°31.647							
30	EP01	0035	BE	SURFACE TRAWL		048	49°21'35.4	126°36.603	32						
30	VI01	15:07	BE	BONGO		049	49°39.523	127°18.561	146	135					SALINITY, NUTS, CHLORO
30	VI01	15:19	BE	CTD		050	49°39.731	127°18.682	146	135					* TIME CHANGE TO PST
30	VI01	15:22	BO				49°39.786	127°18.685							
30	VI01	15:25	BE				49°39.840	127°18.721							
30	VI01	15:37	BE	SURFACE TRAWL		051	49°40.320	127°18.774	136						
30	VI02	16:45	BE	BONGO		052	49°42.722	127°11.286	108	98					
30	VI02	16:54	BE	CTD		053	49°42.854	127°11.412	107	98					NUTS, CHLORO
30	VI02	16:56	BO				49°42.877	127°11.433							
30	VI02	16:59	BE				49°42.899	127°11.463							
30	VI02	17:11	BE	SURFACE TRAWL		054	49°43.424	127°10.920							

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							Latitude	Longitude							
30	UIO3	18:15	BE	BONGO		55	49 45.725	127 04.993	56	46					
30	UIO3	18:23	BE	CTD		56	49 45.854	127 05.013		46					SALINITY, NUTS, CHLORO
30	UIO3	18:24	BO	"			49 45.850	127 05.015							
30	UIO3	18:25	BE	"			49 45.868	127 05.022							
30	UIO3	18:39		SURFACE TRAWL		57	49 46.324	127 05.678							
30	IVI10	20:19	BE	BONGO		58	49 50.306	127 59.299	104	94					
30	IVI10	20:28	BE	CTD		59	49 50.230	126 59.454	94	94					NUTS, CHLORO.
30	IVI10	20:30	BO				49 50.223	126 59.476							
30	IVI10	20:33	AM				49 50.206	126 59.509							
30	IVI10	20:44	BE	SURFACE TRAWL		60	49 50.375	126 59.181							
30	IVI11	21:56	BE	BONGO		61	49 52.558	126 49.744	180	170					
30	IVI11	22:08	BE	CTD		62	49 52.531	126 49.879	168	156					SALINITY, NUTS, CHLORO.
30	IVI11	22:11	BO				49 52.526	126 49.906	170						
30	IVI11	22:14	EN				49 52.525	126 49.937	170						
30	IVI11	22:24	BE	SURFACE TRAWL		63	49 52.748	126 49.377	210						

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30	IUI 12	23:32	BE	BONGO		64	49 56.165	126 48.414	212						
30	IUI 12	23:42	BO	CTD		65	49 56.217	126 48.406	211	200					
30	IUI 12	23:46	BO				49 54.225	126 48.405							MOTS, CHLORO.
30	IUI 12	23:51	AM				49 56.234	126 48.407							200 m CAST.
31	IUI 12	00:02	BE	SURFACE TRAWL		66	49 55.686	126 48.194							
31	IUI 13	15:02	BE	BONGO		67	50 7.876	127 5.717	103	95					
31	IUI 13	15:10	BE	CTD		68	50 7.876	127 5.717		95					
31	IUI 13	15:13	BO				50 7.872	127 5.722							MOTS, CHLORO, SALINITY
31	IUI 13	15:16	AM				50 7.860	127 5.734							
31	IUI 13	15:27		SURFACE TRAWL		69	50 7.292	127 05.94							
31	IUI 14	16:15	BE	BONGO		70	50 05.721	127 08.430	128 ^m						
31	IUI 14	16:26	BE	CTD		71	50 05.725	127 08.503	107	90					MOTS, CHLOR.
31	IUI 14	16:28	BO				50 05.719	127 08.517							CTD BAT FAILURE
31	IUI 14	16:30	EN				50 05.712	127 08.534							
31	IUI 14	16:42	BE	Surface Trawl		72	50 05.379	127 09.52							

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JUL 14

CTD - BAT FAILURE - NO PROBLEM THOUGH 40,000 DATA PTS

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>October</i>				Year <i>2005</i>				Ship <i>F.V. Kisti</i>				Cruise ID <i>2005-28</i>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
31	IUI15	1815	BE	BONGO		73	50 08.997	127 17.660	65	55					
31	IUI15	1823	BE	CTD		74	50 08.996	127 17.550	69	60					NET, CHLORO, SALINITY
31	IUI15	1824	BO				50 08.996	127 17.539							
31	IUI15	1825	KN				50 08.997	127 17.530							
31	IUI15	1837	BE	SURFACE TRAWL		75	50 08.441	127 17.090	83.5						
31	IUI16	19:27	BE	BONGO		76	50 05.597	127 15.240	143	130					NETS, CHLORO
31	IUI16	19:38	BE	CTD		77	50 05.606	127 15.212		130					
31	IUI16	19:41	BO				50 05.596	127 15.192							
31	IUI16	19:44	KN				50 05.590	127 15.177							
31	IUI16	19:55	BE	SURFACE TRAWL		78	50 04.963	127 15.203	214						
31	IUI17	21:01	BE	BONGO		79	49 59.924	127 12.149	157	140					NETS, CHLORO, SALINITY
31	IUI17	21:03	BE	CTD		80	49 59.968	127 12.121	157	150					CTD BAT FAILURE
31	IUI17	—	BO				—	—							
31	IUI17	21:19	KN				49 59.984	127 12.139							
31	IUI17	21:40	BE	SURFACE TRAWL		81	50 00.173	127 11.681	179						

Cast type:

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IVI 17

— CTD - BATFAILURE @ 11.7 VOLTS

30,000 DATA POINTS - NO PROBLEM

DAILY LOG

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Month <i>NOVEMBER</i>				Year <i>2005</i>			Ship <i>F.V. Feosyi</i>			Cruise ID <i>2005-28</i>					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
01	IUI 18	16:19	BE	BONGO		82	50 24 944	127 59 606	146						
01	IUI 18	16:31	BE	CTD		83	50 25 017	127 59.569	81	70					CTD - FAILURE →
01	IUI 18	16:34	BO				50 25 036	127 59.562							SALINITY, NUTS, CHLORO
01	IUI 18	16:37	EN				50 25 064	127 59.548							
01	IUI 18	16:55	BE	SURFACE TRAWL		84	50 25 364	127 58.410							
01	IUI 19	17:45	BE	BONGO		85	50 27.698	127 58.339	133	123					
01	IUI 19	17:57	BE	CTD		86	50 27.680	127 58.465	129	119					CTD FAILURE →
01	IUI 19	17:59	BO				50 27.674	127 58.494							SAME NOTES AS ABOVE
01	IUI 19	18:02	EN				50 27.666	127 58.531							APPLY
01	IUI 19	18:15	BE	SURFACE Trawl		87	50 27 783	127 57 856	158						NUTS, CHLORO.
01	IUI 20	19:24	BE	BONGO		88	50 29.251	127 52.065	104	94					
01	IUI 20	19:34	BE	CTD		89	50 29.224	127 52.153	104	94					SALINITY, NUTS, CHLORO.
01	IUI 20	19:36	BO	"			50 29.222	127 52.165							
01	IUI 20	19:38	EN	"			50 29.221	127 52.180							
01	IUI 20	19:55		SURFACE Trawl		90	50 29 306	127 51.394							

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CTD- BAT FAILURE - @ 11.7 VOLTS - SHOULDN'T HAPPEN TILL 9.0 VOLTS - ONLY 28 DATA POINTS

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>November 2005</i>				Year <i>2005</i>				Ship <i>F.V. Frost</i>				Cruise ID <i>2005-28</i>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
01	IUI 21	2043	BE	Bongo		91	50 28.044	127 48.285	76	66					
01	IUI 21	2053	BE	CTD		92	50 28.056	127 49.377	72.6	62					NOT CHARGED
01	IUI 21	2054	BO				50 28.057	127 49.387	72.6						
01	IUI 21	2056	EN				50 28.057	127 49.401							
01	IUI 21	2109	BE	Surface Trawl		93	50 28.321	127 49.004	130						
01	IUI 22	2159	BE	Bongo		94	50 29.474	127 47.282	79.9						
01	IUI 22	2208	BE	CTD		95	50 29.395	127 47.309	101.1	91					SALINITY, NOTS, CHARGED
01	IUI 22	2210	BO				50 29.378	127 47.319							
01	IUI 22	2212	EN				50 29.362	127 47.324							
01	IUI 22	2224	BE	Surface Trawl		96	50 29.430	127 46.595							
01	IUI 23	2316	BE	Bongo		97	50 29.630	127 43.151	120	110					
01	IUI 23	2324	BE	CTD		98	50 29.603	127 43.192	120	110					NOTS, CHARGED
		2326	BO				50 29.600	127 43.198							
		2329	EN				50 29.594	127 43.222							
01	IUI 23	2339	BE	Surface Trawl		99	50 29.788	127 42.756	120						

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November				2005			F.V. Forster				Cruise ID 2005-28					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments	
							Latitude	Longitude								
02	IUI 24	00:29	BE	BONGO		100	50 31.679	127 39.783	119	109						
02	IUI 24	00:38	BE	CTD		101	50 31.589	127 39.862	123.9	113.9					SALINITY, NUTS	
02	IUI 24	00:40	BO				50 31.562	127 39.893							CHLORO.	
02	IUI 24	00:43	NE				50 31.521	127 39.933								
02	IUI 24	01:00	BE	SURFACE TRAWL		102	50 31.721	127 39.483								
02	IUI 25	02:20	BE	TRAWL 10m		103	50 31.604	127 36.953	111	10				*	SPECIAL TOW AT 10m HEADROPE DEPTH FOR HERRING SAMPLE	
02	IUI 26	15:00	BE	BONGO		104	50 23.713	127 28.839	100	90					NO ASSOCIATED CTD + BONGO	
02	IUI 26	15:09	BE	CTD		105	50 23.748	127 28.894	100	90						
02	IUI 26	—	BO				—	—							SALINITY, NUTS, PHOTOS	
02	IUI 26	15:13	EN				50 23.763	127 28.921								
02	IUI 26	15:30	BE	TRAWL		106	50 23.705	127 28.601								

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							Latitude	Longitude							
02	IUI 27	16:37	BE	BANGO		107	50 26.925	127 31.733	195	175					NOTE, CHIROD
02	IUI 27	16:49	BE	CTD		108	50 26.935	127 31.758	185	150					
02	IUI 27	16:53	BO				50 26.950	127 31.753							
02	IUI 27	16:56	EN				50 26.954	127 31.754	185	175					
02	IUI 27	17:36	BE	SURFACE TRAWL		109	50 27.483	127 32.254	191	150					
02	IUI 28	18:14	BE	BANGO		110	50 30.381	127 39.081	114	105					SAVING, CHIROD, NOTE
02	IUI 28	18:23	BE	CTD		111	50 30.354	127 39.128	107	100					
02	IUI 28	18:25	BO				50.30.355	127 39.131							
02	IUI 28	18:28	EN				50 30.356	127 39.144							
02	IUI 28	18:45	BE	SURFACE TRAWL		112	50 30.276	127 38.625							
02	IUI 29	20:42	BE	BANGO		113	50 35.218	127 26.783	65	55					NOTE, CHIROD
02	IUI 29	20:50	BE	CTD		114	50 35.145	127 26.848	65	55					
02	IUI 29	20:52	BO				50 35.135	127 26.893							
02	IUI 29	20:53	EN				50 35.123	127 26.909							
02	IUI 29	21:12	BE	SURFACE TRAWL		115	50 35.019	127 27.356							

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
02	IVI 30	22:04	BE	BANGO		116	50 35.418	127 30.277	50	40					
02	IVI 30	22:12	BE	CTD		117	50 35.428	127 30.335	49	40					SALINITY, NITS, CHLORO
	IVI 30	22:13	BO				50 35.429	127 30.340							
	IVI 30	22:15	EN				50 35.430	127 30.347							
02	IVI 30	22:30	BE	Surface Trawl		118	50 35.301	127 30.444							
02	IVI 31	23:20	BE	BANGO		119	50 34.044	127 33.612	121	115					NIT, CHLORO
02	IVI 31	23:30	BE	CTD		120	50 34.010	127 33.619	126.3	116					
		23:32	BO				50 31.005	127 33.617	126.4						
		23:35	EN				50 31.002	127 33.616							
02	IVI 31	23:46	BE	Surface Trawl		121	50 31.099	127 33.019	126						
03	IVI 32	15:35	BE	BANGO		122	50 37.177	127 52.183	55	45					SALINITY, NITS, CHLORO
03	IVI 32	15:42	BE	CTD		123	50 37.218	127 52.368	31	25					
03	IVI 32	15:42	BO				50 37.220	127 52.380							
03	IVI 32	15:43	EN				50 37.223	127 52.394							
03	IVI 32	15:47	BE	Surface Trawl		124	50 37.093	127 51.857							

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03	IVI 33	16:51	BE	BANGO		125	50 35.051	127 46.648	57	45						
03	IVE 33	16:58	BE	CTD		126	50 35.049	127 46.700	57	47						ROTS, CHORO
03	IVI 33	16:59	BO				50 35.050	127 46.711								
03	IVI 33	17:00	EN				50 35.051	127 46.721								
03	IVI 33	17:10	BE	Surface Trawl		127	50 35.958	127 46.169	55							
03	IVI 34	18:11	BE	BANGO		128	50 35.541	127 40.492	108	90						
03	IVI 34	18:20	BE	CTD		129	50 35.578	127 40.659	108	90						ROTS, CHORO
03	IVI 34	18:23	BO				50 35.583	127 40.691	101							
03	IVI 34	18:25	EN				50 35.590	127 40.715								
03	IVI 34	18:40	BE	Surface Trawl		130	50 35.597	127 40.297	108							
03	IVI 35	19:28	BE	BANGO		131	50 34.773	127 35.965	132	120						
03	IVI 35	19:39	BE	CTD		132	50 34.772	127 35.951	134	120						ROTS, CHORO
03	IVI 35	19:41	BO				50 34.772	127 35.947								
03	IVI 35	19:44	BO				50 34.770	127 35.944								
03	IVI 35	19:55	BE	Surface Trawl		133	50 34.574	127 35.462								

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
04	IBCO1	1547	BE	BanGO		134	51 31.749	127 52.592	155	145					
04	IBCO1	15:59	BE	CTD		135	51 31.945	127 52.503	154	140					
04	IBCO1	16:03	BO				51 31.998	127 52.503							salinity, NUTS,
04	IBCO1	16:05	EN				51 32.059	127 52.486							CHLORO.
04	IBCO1	16:17	BE	SURFACE Trawl		136	51 32.518	127 52.412							
04	IBCO2	17:20	BE	BanGO		137	51 36.309	127 54.243	286	150					
04	IBCO2	17:33	BE	CTD		138	51 36.582	127 54.198	306	200					
04	IBCO2	17:36	BO				51 36.664	127 54.187							NUTS, CHLORO
04	IBCO2	17:40	EN				51 36.775	127 54.169							
04	IBCO2	17:53	BE	surface Trawl		139	51 37.512	127 54.783							
04	IBCO3	18:54	BE	BanGO		140	51 42.803	127 55.312	350	150					
04	IBCO3	19:06	BE	CTD		141	51 42.992	127 55.312	351	200					
04	IBCO3	19:10	BO				51 43.050	127 55.330	358.1						salinity, NUTS, CHLORO
04	IBCO3	19:15	EN				51 43.117	127 55.349							
04	IBCO3	19:28	BE	surface Trawl		142	51 43.928	127 55.522	364						

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							Latitude	Longitude							
04	IB04	20:34	BE	BONGO		143	51 49.249	127 55.762	323	150					
04	IB04	20:44	BE	CTD		144	51 49.411	127 55.826	323	200					
04	IB04	20:48	BO				51 49.502	127 55.840							NUTS, CHLORO
04	IB04	20:52	RE				51 49.545	127 55.830							
04	IB04		BE	SURFACE TRAWL		145	51 50.271	127 55.738							
04	IB05	21:59	BE	BONGO		146	51 54.510	127 54.985	183	150					
04	IB05	22:11	BE	CTD		147	51 54.665	127 55.006	183	170					NUTS, CHLORO
04	IB05	22:14	BO				51 54.722	127 55.993							
04	IB05	22:18	EN				51 54.765	127 55.959							
04	IB05	22:28	BE	SURFACE TRAWL		148	51 55.440	127 55.445							
04	IB06	23:25	BE	BONGO		149	51 58.760	127 54.708	176	150					
04	IB06	23:37	BE	CTD		150	51 58.635	127 54.782	135	125					NUTS, CHLORO
04	IB06	23:40	BO				51 58.595	127 54.807							
04	IB06	23:43	EN				51 58.554	127 54.817							
04	IB06	23:56	BE	SURFACE TRAWL		151	51 59.066	127 54.779							

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							Latitude	Longitude							
05	IBC 07	01:08	BE	BONGO		152	S20S.370	127 54 220	380	150					
05	IBC 07	01:20	BE	CTD		153	S20S.283	127 54.361	393	200					Salinity, NUTS, CHLORO
05	IBC 07	01:24	BO				S20S.270	127 54.385	"						
05	IBC 07	01:28	EN				S20S.252	127 54.406							
05	IBC 07	01:40	BE	Surface Trawl		154	S20S.709	127 54.726							
05	IBC 08	15:24	BE	BONGO		155	S213.726	128 13.386	318	150					
05	IBC 08	15:35	BE	CTD		156	S213.810	128 13.614	314	200					Salinity, NUTS, CHLORO
05	IBC 08	15:39	BO				S213.841	128 13.693							
05	IBC 08	15:43	EN				S213.874	128 13.779							
05	IBC 08	15:55	BE	Surface Trawl		157	S214.177	128 14.799							
05	IBC 09	16:46	BE	BONGO		158	S214.987	128 21.872	334	150					
05	IBC 09	16:58	BE	CTD		159	S215.070	128 22.189	237	200					NUTS, CHLORO
05	IBC 09	17:02	BO				S215.118	128 22.327							
05	IBC 09	17:07	EN				S215.154	128 22.424							
05	IBC 09	17:17	BE	Surface Trawl		160	S215.258	128 23.950							

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
05	IBC 10	18:38	BE	BONGO		161	52 18.176	128 35.399	238	150					
05	IBC 10	18:50	BE	CTD		162	52 18.407	128 35.614	241	200					SALINITY, NUTS, CHLORO
05	IBC 10	18:54	BO				52 18.499	128 35.686							
05	IBC 10	18:58	EN				52 18.570	128 35.776							
05	IBC 10	19:18	BE	SURFACE TRAWL		163	52 18.208	128 38.096	260						
05	IBC 11	20:50	BE	BONGO		164	52 19.962	128 47.791	204	150					
05	IBC 11	21:02	BE	CTD		165	52 20.196	128 47.803	203	190					NUTS, CHLORO.
05	IBC 11	—	BO				52 20.346	128 47.839							
05	IBC 11	21:21	BE	SURFACE TRAWL		166	52 21.028	128 48.338							
05	IBC 12	23:04	BE	BONGO		167	52 31.111	128 52.376	247	150					
05	IBC 12	23:12	BE	CTD		168	52 31.193	128 52.459	244	200					SALINITY, NUTS, CHLORO
05	IBC 12	23:16	BO				52 31.237	128 52.485							
05	IBC 12	23:20	BE				52 31.292	128 52.512							
05	IBC 12	23:31	BE	SURFACE TRAWL		169	52 31.908	128 52.964							

Cast type:

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Transmissometer to be cleaned for each cast, do not use Ammonia products

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION															INSTITUTE OF OCEAN SCIENCES			
Month <u>November</u>				Year <u>2005</u>			Ship <u>F.V. Ford</u>			Cruise ID <u>2005-28</u>								
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments			
							Latitude	Longitude										
06	IBC 13	00:50	BE	BAND		170	52 39.442	128 56.410	180	150								
06	IBC 13	01:01	BE	CTD		171	52 39.436	128 56.330	180	170								
06	IBC 13	01:04	BO				52 39.448	128 56.298										
06	IBC 13	01:07	BE				52 39.463	128 56.231										
06	IBC 13	01:10	BE	SURFACE TRAWL		172	52 39.891	128 56.281	143									
06	IBC 14	15:17	BE	BAND		173	52 42.935	129 02.944	258	150								
06	IBC 14	15:29	BE	CTD		174	52 42.965	129 02.955	260	200								
06	IBC 14	15:33	BO				52 42.986	129 02.958										
06	IBC 14	15:36	EN				52 42.968	129 02.963										
06	IBC 14	15:46	BE	SURFACE TRAWL		175	52 43.434	129 03.644										
06	IBC 15	17:42	BE	BAND		176	52 54.258	129 18.934	257	150								
06	IBC 15	17:53	BE	CTD		177	52 54.394	129 18.364	256	200								
06	IBC 15	17:57	BO				52 54.438	129 18.498										
06	IBC 15	18:01	BE				52 54.491	129 18.651										
06	IBC 15	18:12	BE	SURFACE TRAWL		178	52 54.932	129 20.016										
DATE & TIME CHANGE ON COMPUTER — OVER PAGE —																		

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IBC 15 COMPUTER DATE/TIME SAYS 02/19 - 23:00 SHOULD BE 11/06 18:00 - CHANGED TIME @ DATE
ON COMPUTER @ 18:30

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>November</i>				Year <i>2005</i>		Ship <i>F.V. Foster</i>		Cruise ID <i>2005-28</i>							
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
06	IBL16	19:15	BE	BONGO		179	52 59.241	129 27.379	62	50					
06	IBL16	19:23	BE	CTD		180	52 59.489	129 27.540	53	45					SALINITY, NOT, CHANGED
06	IBL16	19:23	BO				52 59.517	129 27.564							
06	IBL16	19:24	MR				52 59.559	129 27.590							
06	IBL16	19:37	BE	SURFACE TRAWL		181	53 00.466	129 28.542							
06	IBC17	20:30	BE	BONGO		182	53 05.692	129 33.317	161	150					
06	IBC17	20:42	BE	CTD		183	53 05.416	129 33.630	178	170					WIND, CHANGED
06	IBC17	20:45	BO				53 05.516	129 33.698							
06	IBC17	20:49	MR				53 05.631	129 33.781							
06	IBC17	21:00	BE	SURFACE TRAWL		184	53 06.308	129 34.634							
06	IBC18	22:16	BE	BONGO		185	53 13.925	129 39.913	155	145					
06	IBC18	22:28	BE	CTD		186	53 14.065	129 40.231	155	145					SALINITY, NOT, CHANGED
06	IBC18	22:30	BO				53 14.104	129 40.342							
06	IBC18	22:33	MR				53 14.134	129 40.411							
06	IBC18	22:43	BE			187	53 14.648	129 41.301							

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
07	IBC 19	00:05	BE	BONGO		188	53 21.308	129 49.715	190	150					
07	IBC 19	00:18	BE	CTD		189	53 21.402	129 49.920	190	180					Salinity, NUTS, CHLORO.
07	IBC 19	00:22	BO				53 21.433	129 50.031							
07	IBC 19	00:25	EN				53 21.462	129 50.092							
07	IBC 19	00:35	BE	SURFACE Trawl		190	53 21.919	129 50.269							
07	IBC 20	15:19	BE	BONGO		191	54 03.804	130 13.906	67	60					
07	IBC 20	15:26	BE	CTD		192	54 03.937	130 14.058	71	60					Salinity, NUTS, CHLORO.
07	IBC 20	15:28	BO				54 03.963	130 14.078	76						
07	IBC 20	15:29	EN				54 04.000	130 14.099							
07	IBC 20	15:42	BE	SURFACE Trawl		193	54 4.344	130 14.699	70						
07	IBC 21	17:21	BE	BONGO		194	54 07.612	130 32.767	88						
07	IBC 21	17:30	BE	CTD		195	54 07.680	130 32.859	97	85					NUTS, CHLORO.
07	IBC 21	17:31	BO				54 07.697	130 32.864							
07	IBC 21	17:33	EN				54 07.723	130 32.877							
07	IBC 21	17:44	BE	SURFACE Trawl		196	54 07.180	130 32.975							

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INSTITUTE OF OCEAN SCIENCES

Month <i>November</i>				Year <i>2005</i>			Ship <i>R/V. Fenn</i>			Cruise ID <i>2005-28</i>					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
07	IBL22	19:17	BE	BONGO		197	54 10.220	130 39.158	92	82					
07	IBL22	19:19	BE	CTD		198	54 10:302	130 39.253	88	80					skimming net, CHLORO
07	IBL22	—	BO				—	—							
07	IBL22	19:23	BE				54 10.346	130 39.286							
07	IBL22	19:38	BE	MOORING TRAIL		199	54 10.862	130 40.328	171						
07	IBL23	20:59	BE	BONGO		200	54 13.445	130 35.956	96	86					
07	IBL23	21:08	BE	CTD		201	54 13.547	130 35.919	96	86					HOUS, CHLORO
07	IBL23	21:10	BO				54 13.562	130 35.915							
07	IBL23	21:12	KN				54 13.589	130 35.913							
07	IBL23	21:22	BE	SURFACE TRAIL		202	54 13 600	130 34.882	70						
07	IBL24	22:30	BE	BONGO		203	54 17.170	130 33.549	92	85					
07	IBL24	22:38	BE	CTD		204	54 17.292	130 33.710	105	85					skimming net, CHLORO
07	IBL24	22:40	BO				54 17.368	130 33.776							
07	IBL24	22:42	BE				54 17.402	130 33.808							
07	IBL24	22:54	BE	SURFACE TRAIL		205									

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INSTITUTE OF OCEAN SCIENCES

Month <i>November</i>				Year <i>2005</i>		Ship <i>F.V. Frost</i>		Cruise ID <i>2005-28</i>							
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
07	IBC 25	2350	BE	BONGO		206	54 21.178	130 39.821	164	150					
08	IBC 25	00:02	BE	CTD		207	54 21.414	130 39.724		155					<i>MOTS, CHLORO.</i>
08	IBC 25	00:05	BO				54 21.451	130 39.705							
08	IBC 25	00:07	EN				54 21.509	130 39.684							
08	IBC 25	04:18	BE	Surface Trawl		208	54 21.129	130 40.071							
08	IBC 26	15:19	BE	BONGO		209	55 14.635	129 50.596	504	1510					
08	IBC 26	15:32	BE	CTD		210	55 14.721	129 50.703		200					<i>SALINITY, MOTS, CHLORO</i>
08	IBC 26	15:36	BO				55 14.762	129 50.729							
08	IBC 26	15:41	EN				55 14.796	129 50.731							
08	IBC 26	15:50	BE	Surface Trawl		211	55 14.345	129 51.125		493					
08	IBC 27	16:41	BE	BONGO		212	55 11.256	129 52.401	532	150					
08	IBC 27	16:52	BE	CTD		213	55 11.293	129 52.426	531	531					<i>MOTS, BONGO.</i>
08	IBC 27	16:56	BO				55 11.293	129 52.442	531	200					
08	IBC 27	17:01	EN				55 11.314	129 52.459							
08	IBC 27	17:12	BE	Surface Trawl		214	55 10.764	129 52.837							

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Month <i>November</i>				Year <i>2005</i>			Ship <i>F.V. Frost</i>				Cruise ID <i>2005-28</i>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
06	TBC 28	18:07	BE	BONGO		215	55 07.380	129 56.575	440	150					
08	TBC 28	18:19	BE	CTD		816	55 07.284	129 56.631	440	400					SURFACE SALINITY,
08	TBC 28	18:24	BO	BOT	US		55 07.242	129 56.703							SALINITY @ 400m.
08	TBC 28	18:39	BM				55 07.198	129 56.188							NETS, CHLORO.
08	TBC 28	18:49	BE	SURFACE TRAWL		217	55 06.622	129 57.429							
08	TBC 29	20:00	BE	BONGO		218	54 59.939	130 01.353	184	150					
08	TBC 29	20:11	BE	CTD		219	55 00.038	130 01.598	191	180					
08	TBC 29	20:14	BO				55 00.063	130 01.662							NETS, CHLORO.
08	TBC 29	20:19	BM				55 00.087	130 01.719							
08	TBC 29	20:30	BE	SURFACE TRAWL		220	54 59.635	130 02.529							
08	TBC 30	21:49	BE	BONGO		221	54 52.488	130 11.577	431	150					
08	TBC 30	22:01	BE	CTD		222	54 52.177	130 11.905	433	200					SALINITY, NETS, CHLORO
08	TBC 30	22:05	BO				54 52.058	130 12.043							
08	TBC 30	22:09	BM				54 51.965	130 12.233							
08	TBC 30	22:19	BE	SURFACE TRAWL		223	54 51.240	130 12.824							

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>November</i>				Year <i>2005</i>				Ship <i>P.V. Krossi</i>				Cruise ID <i>2005-28</i>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
08	IBC 31	23:12	BE	Bongo	?	224	54 47.737	130 17.609	486	150					
08	IBC 31	23:24	BE	CTD	225	225	54 47.454	130 18.105		200					MUTS, CHLORO.
08	IBC 31	23:28	BO				54 47.384	130 18.245							
08	IBC 31	23:33	EN				54 47.290	130 18.421							
08	IBC 31	23:45	BE	Surface Trawl	226	226	54 46.675	130 19.402							
09	IBC 32	16:02	BE	Bongo		224	54 36.062	130 30.047	237	150					
09	IBC 32	16:14	BE	CTD	228	228	54 36.117	130 30.001	229	200					DEPT. SHALLOWING RAPIDLY, STOPPED CAST
09	IBC 32	16:17	BO				54 36.194	130 29.945							AT 150m.
09	IBC 32	16:20	EN				54 36.249	130 29.904							
09	IBC 32	16:30	BE	Surface Trawl	229	229	54 36.999	130 30.710	320						SPINITY/MUTS, CHLORO.
09	IBC 33	17:30	BE	Bongo		230	54 40.693	130 36.534	244	150					
09	IBC 33	17:43	BE	CTD		231	54 40.788	130 36.849	236	200					MUTS, CHLORO
09	IBC 33	17:47	BO				54 40.819	130 36.936							
09	IBC 33	17:51	EN				54 40.849	130 37.004							
09	IBC 33	18:01	BE	Surface Trawl		232	54 41.052	130 38.262	226						

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
09	IBL34	19:10	BE	Bongo		233	54 40.076	130 50.533	296	150					
09	IBL34	19:24	BE	CTD		234	54 40.214	130 51.038	326	200					Strong head tide
09	IBL34	19:26	BO				54 40.245	130 51.207							Salinity, NUTS, CHLORO
09	IBL34	19:30	EN				54 40.281	130 51.412							
09	IBL34	19:41	BE	Surface Trawl		235	54 40.124	130 50.897		340					
09	IBL35	21:08	BE	Bongo		236	54 35.037	130 43.572	129	127					
09	IBL35	21:19	BE	CTD		237	54 35.253	130 43.545	129	127					Turned Bongo nets
09	IBL35	21:21	BO				54 35.347	130 43.542							Trawl scrubbed bell with
09	IBL35	21:23	EN				54 35.341	130 43.537							at 12:10 - wash and tie
09	IBL35	21:35	BE	Surface Trawl		238	54 35.013	130 43.502							They put dozens of home-w
															NUTS - NUTS, CHLORO
09	IBL36	23:04	BE	Bongo		239	54 28.416	130 36.332	103	90					
09	IBL36	23:13	BE	CTD		240	54 28.692	130 36.371	102	90					Salinity, NUTS, CHLORO
09	IBL36	23:15	BO				54 28.832	130 36.380							
09	IBL36	23:17	EN				54 28.973	130 36.381							
09	IBL36	23:28	BE	Surface Trawl		241	54 28.809	130 35.984							

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
11	ISEA01	21:05	BE	BONGP		242	55 27.683	132 2.744	433	150					SALINITY, NUTS, CHLORO.
11	ISEA01	21:17	BE	CTD		243	55 27.946	132 3.276		200					
11	ISEA01	21:21	BO				55 28.039	132 3.438							
11	ISEA01	21:27	EM				55 28.163	132 3.674							
11	ISEA01	21:38	BE	SURFACE TRANSL		244	55 28.795	132 4.479	439						
11	ISEA02	22:43	BE	BONGP		245	55 33.646	132 13.123	460	150					NUTS, CHLORO.
11	ISEA02	22:55	BE	CTD		246	55 33.921	132 13.686		200					
11	ISEA02	22:59	BO				55 34.021	132 13.854							
11	ISEA02	23:03	EM				55 34.102	132 14.019							
11	ISEA02	23:14	BE	SURFACE TRANSL		247	55 34.732	132 14.639							
12	ISEA03	00:20	BE	BONGP		248	55 41.647	132 15.620	406	150					SALINITY, NUTS, CHLORO.
12	ISEA03	00:32	BE	CTD		249	55 41.812	132 15.716		200					
12	ISEA03	00:35	BO				55 41.872	132 15.731							
12	ISEA03	00:40	EM				55 41.954	132 15.763							
12	ISEA03	00:52	BE	SURFACE TRANSL		250	55 42.501	132 15.548	306						

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Ocean Sciences and Productivity Division							INSTITUTE OF OCEAN SCIENCES								
Month		Year		Ship			Cruise ID								
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
12	ISEA04	15:20	BE	BONGO.		251	56 13 484	132 48.062	96	81.5					
12	ISEA04	15:29	BE	CTD		252	56 13 516	132 47.988		85					SALINITY, NUT, CHORO
12	ISEA04	15:31	BO				56 13 521	132 47.982							
12	ISEA04	15:33	MR				56 13 529	132 47.973							
12	ISEA04	15:48	BE	SURFACE TRAWL		253	56 13 483	132 48.023							
12	ISEA05	16:45	BE	BONGO.		254	56 14.65	132 39.33	282	150					
12	ISEA05	17:00	BE	CTD		255	56 14.528	132 39.338	258	200					MUTS, CHORO.
12	ISEA05	17:04	BO				56 14 501	132 39.339							
12	ISEA05	17:08	MR				56 14 477	132 39.460							
12	ISEA05	17:20	BE	SURFACE TRAWL		256	56 14 620	132 38.702	268						
12	ISEA06	18:28	BE	BONGO.		257	56 20.099	132 33.279	258	150					
12	ISEA06	18:42	BE	CTD		258	56 20 029	132 33 241	228	200					SALINITY, MUTS, CHORO
12	ISEA06	18:46	BO				56 20 017	132 33 243							
12	ISEA06	18:50	MR				56 20.007	132 33 239							
12	ISEA06	19:01	BE	SURFACE TRAWL		259	56 20.308	132 32.621	167						
Cast type: USW = sea water loop BOT = bottle cast, no CTD															
bottle firing method: US = up/stop Time Code															

Cast type:

BOT = bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD

USW = sea water loop
 MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

US = up/stop
 UN = up/no stop
 DN = down/no stop

Time Code

BE = beginning time of cast
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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>November</i>				Year <i>2005</i>				Ship <i>F.V. Frost</i>				Cruise ID <i>2005-28</i>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
12	ISEA07	19:55	BE	BON60		260	56 21.237	132 25.588	161	150.					
12	ISEA07	20:02	BE	CTD.		261	56 21.242	132 25.667		150.					NOTS CHARGED
12	ISEA07	20:10	BO				56 21.247	132 25.684							
12	ISEA07	20:14	EN				56 21.253	132 25.706							
12	ISEA07	20:25	BE	SURFACE TRAWL		262	56 21.607	132 25.297							
12	ISEA08	21:43	BE	BON60		263	56 29.281	132 26.693	88	79					
12	ISEA08	21:53	BE	CTD		264	56 29.183	132 27.019	88	80					Salinity, NOTS, CHARGED
12	ISEA08	21:54	BO				56 29.173	132 27.039							
12	ISEA08	21:55	EN				56 29.153	132 27.091							
12	ISEA08	22:08	BE	SURFACE TRAWL		265	56 29.210	132 28.057	80	-					
12	ISEA09	23:00	BE	BON60		266	56 31.13	132 34.57	68	60					
12	ISEA09	23:09	BE	CTD		267	56 31.09	132 34.90	82	70					NOTS CHARGED
12	ISEA09	23:10	BO				56 31.08	132 34.95							
12	ISEA09	23:12	EN				56 31.07	132 34.99							
12	ISEA09	23:26	BE	TRAWL		268	56 31.700	132 35.445							

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
13	ISEA10	00:12	BE	Bottle		269	56 31.20	132 40.43	50	40					
13	ISEA10	00:19	BE	CTD		270	56 31.24	132 40.43	48	40					SALINITY, NUTS, CHLORO
13	ISEA10	00:20	BO				56 31.24	132 40.43							
13	ISEA10	00:21	EN				56 31.24	132 40.43							
13	ISEA10	00:33	BE	SURFACE TRAWL		271	56 31.09	132 40.96	48						
13	ISEA11	15:18	BE	Bottle		272	56 29.238	132 45.617	132	122					
13	ISEA11	15:30	BE	CTD		273	56 29.244	132 45.644	131	122					SALINITY, NUTS, CHLORO
13	ISEA11	15:32	BO				56 29.248	132 45.642							
13	ISEA11	15:35	BE				56 29.254	132 45.640							
13	ISEA11	15:47	EN	SURFACE TRAWL		274	56 29.279	132 46.051							
13	ISEA12	16:38	BE	Bottle		275	56 29.69	132 51.24	150	140					
13	ISEA12	16:50	BE	CTD		276	56 29.75	132 51.30	148	140					NUTS, CHLORO
13	ISEA12	16:52	BO				56 29.79	132 51.35							
13	ISEA12	16:54	EN				56 29.81	132 51.39							
13	ISEA12	09:08	BE	SURFACE TRAWL		277	56 29.98	132 52.03	154						

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Month <i>November</i>				Year <i>2005</i>				Ship <i>F.V. Kassi</i>				Cruise ID <i>2005-28</i>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
13	ISEA13	18:24	BE	BONGO		278	56 26.44	133 02.85	107	100					
13	ISEA13	18:34	BE	CTD		279	56 26.44	133 02.63	126	115					NOT, CHLOR.
13	ISEA13	18:37	BO				56 26.44	133 02.61							NO SAMPLES TAKEN
13	ISEA13	18:39	EN				56 26.44	133 02.60							MISSING BOTTOM SAMPLES
13	ISEA13	18:53	BE	SURFACE TRAWL		280	56 26.734	133 03.081							
13	ISEA14	19:58	BE	BONGO		281	56 22.50	133 11.45	118	110					
13	ISEA14	20:09	BE	CTD		282	56 22.37	133 12.28	178	170					ALGALITY, NUTS, CHLOROPHYLL
13	ISEA14	20:12	BO				56 22.37	133 12.49							STRAW OUT-ROW T.O.C.
13	ISEA14	20:15	EN				56 22.29	133 12.76							
13	ISEA14	20:33	BE	TRAWL		283	56 22.36	133 12.58							
13	ISEA15	21:29	BE	BONGO		284	56 22.75	133 23.06	326	150					
13	ISEA15	21:41	BE	CTD		285	56 22.62	133 23.40	344	200					NUTS, CHLOROPHYLL
13	ISEA15	21:45	BO				56 22.67	133 23.55							
13	ISEA15	21:49	EN				56 22.66	133 23.73							
13	ISEA15	22:00	BE	TRAWL		286	56 22.95	133 24.50							

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Month <u>November</u>				Year <u>2005</u>				Ship <u>R/V. Kilo</u>				Cruise ID <u>2005-28</u>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
13	ISEA16	23:00	13A	BONGO		287	56 24.18	133 35.75	287	150.					
13	ISEA16	23:12	13E	CTD		288	56 24.15	133 36.41	290	200.					SALINITY, NUTS, CHLORO
13	ISEA16	23:15	13D				56 24.16	133 36.64							
13	ISEA16	23:17	13E				56 24.16	133 36.85							
13	ISEA16	23:31	13E	TRAWL		289	56 24.31	133 37.95	168						
14	ISEA17	00:28	14E	BONGO		290	56 23.63	133 40.63	207						
14	ISEA17	00:40	14E	CTD		291	56 23.6	133 40.96	200	160.					NUTS, CHLORO.
14	ISEA17	00:43	14D				56 23.6	133 41.0							
14	ISEA17	00:46	14E				56 23.6	133 41.1							
14	ISEA17	00:56	14E	TRAWL		292	56 23.4	133 40.6							
14	ISEA18	15:18	14E	BONGO		293	56 10.52	132 50.65	192	150					
14	ISEA18	15:31		CTD		294	56 10.51	132 50.84	225	200					SALINITY, NUTS, CHLORO.
14	ISEA18	15:35					56 10.51	132 50.91							
14	ISEA18	15:39					56 10.52	132 50.96							
14	ISEA18	15:53		TRAWL		295	56 10.44	132 50.85							

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Month <i>November</i>		Year <i>2005</i>		Ship <i>K.V. Frost</i>		Cruise ID <i>2005-28</i>									
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
14	ISEA19	17:06	BE	BOMCO		296	56 03.36	132 48.12	113	100					
14	ISEA19	17:17	BE	CTD		297	56 03.51	132 48.28	180	170					MUTS, CHLORO.
14	ISEA19	17:20	BO				56 03.55	132 48.32							
14	ISEA19	17:23	EM				56 03.59	132 48.38							
14	ISEA19	17:35	BE	TRAWL		298	56 03.24	132 48.19							
14	ISEA20	18:52	BE	BOMCO		299	55 59.84	132 38.82	300	150					
14	ISEA20	19:03	BE	CTD		300	55 59.89	132 39.24	300	200					MUTS, CHLORO.
14	ISEA20	19:06	BO				55 59.93	132 39.38							
14	ISEA20	19:10	EM				55 59.97	132 39.51							
14	ISEA20	19:21	BE	TRAWL		301	55 59.89	132 39.03	300						
14	ISEA21	20:33	BE	BOMCO		302	55 57.54	132 28.64	125	120					
14	ISEA21	20:44	BE	CTD		303	55 57.60	132 28.77	140	130					MUTS, CHLORO.
14	ISEA21	20:46	BO				55 57.61	132 28.81							
14	ISEA21	20:48	EM				55 57.63	132 28.83							
14	ISEA21	20:59	BE	TRAWL		304	55 57.71	132 28.6							

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Month <i>November</i>				Year <i>2005</i>			Ship <i>F.V. Kassi</i>				Cruise ID <i>2005-28</i>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
14	ISEA 22	22:16	BE	BONGO		305	55 50.6	132 23.15	139	130					
14	ISEA 22	22:27	BE	CTD		306	55 50.74	132 23.51	145						SALINITY, NUTS, CHLORO
14	ISEA 22	22:31	BO				55 50.80	132 23.63	245	200					
14	ISEA 22	22:35	BE				55 50.86	132 23.76							
14	ISEA 22	22:45	BE	TRAWL		307	55 50.67	132 23.35	124						
14	ISEA 23	23:36	BE	BONGO		308	55 48.99	132 18.26	397	350					
14	ISEA 23	23:53	BE	CTD		309	55 48.99	132 18.32		350					
15	ISEA 23	00:02	BO		BOT		55 48.99	132 18.59							NUTS, CHLORO.
15	ISEA 23	00:11	BE				55 48.99	132 18.88							SALINITY @ 350M
15	ISEA 23		BE	TRAWL		310	55 49.01	132 17.45							
15	ISEA 24	15:19	BE	BONGO		311	55 52.09	131 51.28	66	55					
15	ISEA 24	15:27	BE	CTD		312	55 52.09	131 51.32	66	55					SALINITY, NUTS, CHLORO
15	ISEA 24	15:28	BO				55 52.09	131 51.32							
15	ISEA 24	15:29	BE				55 52.09	131 51.32							
15	ISEA 24	15:50	BE	TRAWL		313	55 51.94	131 51.62	54						

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
15	ISEA25	17:12	BE	Bongo		314	55 47.31	131 40.13	228						
15	ISEA25	17:24		CTD		315	55 47.33	131 40.11	222	200					NITS, CHORO
15	ISEA25	17:28					55 47.34	131 40.11							
15	ISEA25	17:32					55 47.34	131 40.11							
15	ISEA25	17:46		Trawl		316	55 47.02	131 39.83							
15	ISEA26	19:08		Bongo		317	55 40.10	131 48.45	100	90					
15	ISEA26	19:17		CTD		318	55 40.24	131 48.32	230	150					Salinity, NITS, CHORO
15	ISEA26	19:20					55 40.25	131 48.30							
15	ISEA26	19:23					55 40.32	131 48.29							
15	ISEA26	19:36		Trawl		319	55 40.19	131 48.25							
15	ISEA27	21:36		Bongo		320	55 31.15	131 55.33	101	90					
15	ISEA27	21:47		CTD		321	55 31.31	131 55.36	105	95					NITS, CHORO
15	ISEA27	21:49					55 31.34	131 55.36							
15	ISEA27	21:50					55 31.38	131 55.36							
15	ISEA27	22:03		Trawl		322	55 31.36	131 55.8							

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
15	ISPA28	23:06	BE	BOUZO.		323	55 26.9	131 53.87	100	90					
15	ISPA28	23:16	BE	CTD		324	55 24.09	131 53.96	148						salinity, NUTS, CHLORO.
15	ISPA28	23:19	BO				55 24.14	131 53.96	171	130					
15	ISPA28	23:21	BE				55 27.18	131 53.94							
15	ISPA28	23:32	BE	TRAWL		325	55 26.81	131 53.65	171						
16	FI01	15:54	BE	BOUZO		326	54 47.03	133 3.7	148	140					
16	FI01	16:08	BE	CTD		327	54 46.887	133 3.52	140	130.					salinity, NUTS, CHLORO
16	FI01	16:11	BO				54 46.87	133 3.49.							
16	FI01	16:13	BE				54 46.87	133 3.44							
16	FI01	16:35	BE	TRAWL		328	54 47.3	133 2.55							
16	FI02	17:45	BE	BOUZO		329	54 46.57	133 11.19	205	150					NUTS, CHLORO.
16	FI02	17:58	BE	CTD		330	54 46.584	133 11.02	203	190.					
16	FI02	18:01	BO				54 46.54	133 10.98.							
16	FI02	18:05	BE				54 46.56	133 10.95.							
16	FI02	18:12	BE	TRAWL		331	54 46.73	133 10.65.	211						

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
16	FIO3	19:25	BE	BONGO		332	54 45.84	133 18.92	116	106					
16	FIO3	19:30	34	CTD		333	54 45.94	133 18.69	117	110					SANITARY, NUTS, CHORD
16	FIO3	19:38	BO				54 45.96	133 18.64							
16	FIO3	19:40	EN				54 45.98	133 18.59							
16	FIO3	19:55	BE	TRAWL		334	54 46.05	133 18.78	125						
16	FIO4	21:04	BE	BONGO		335	54 45.23	133 26.83	147	135					
16	FIO4	21:15	BE	CTD		336	54 45.40	133 26.27	144	135					NUTS, CHORD
16	FIO4	21:17	BO				54 45.43	133 26.64							
16	FIO4	21:19	EN				54 45.47	133 26.62							
16	FIO4	21:34	BE	TRAWL		337	54 45.77	133 26.65	140						
17	DE06	15:29	BE	BONGO		338	54 14.467	132 55.42	140	130					
17	DE06	15:40	BE	CTD		339	54 14.60	132 55.55	140	130					SANITARY, NUTS, CHORD
17	DE06	15:42	BO				54 14.64	132 55.57							
17	DE06	15:44	EN				54 14.67	132 55.58							
17	DE06	15:59	BE	TRAWL		340	54 14.62	132 55.48	108						

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INSTITUTE OF OCEAN SCIENCES

Month <i>November</i>				Year <i>2005</i>			Ship <i>P.V. Frost</i>					Cruise ID <i>2005-28</i>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
17	DE05	17:12	BE	Bongo		341	54 10 79	132 45.45	64	50					
17	DE05	17:20	BE	CTD		342	54 10 74	132 45.13	61	50					NOTS, CHLORO
17	DE05	17:21	BO				54 10 74	132 45.10							
17	DE05	17:22	GR				54 10 74	132 45.08							
17	DE05	17:38	BE	TRAWL		343	54 10 77	132 45.68	64						
17	DE04	19:07	BE	Bongo		344	54 7.814	132 28.05	53	43					
17	DE04	19:15	BE	CTD		345	54 7.822	132 27.867	53	45					SAINT, NOTS, CHLORO
17	DE04	19:16	BO				54 7.823	132 27.846							
17	DE04	19:17	GR				54 7.823	132 27.834							
17	DE04	19:31	BE	TRAWL		346	54 7.81	132 28.19	54						
17	DE03	20:56	DE	Bongo		347	54 08.29	132 11.82	47	40					
17	DE03	21:03	BE	CTD		348	54 08.30	132 11.75	47	40					NOTS, CHLORO
17	DE03	21:04	BO				54 08.30	132 11.74							
17	DE03	21:05	EN				54 08.31	132 11.74							
17	DE03	21:18	BE	TRAWL		349	54 08.31	132 11.86	48						

Cast type:
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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>November</u>				Year <u>2005</u>			Ship <u>F.V. Frost</u>				Cruise ID <u>2005-28</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
17	DE02	22:38	BE	Bongo		350	54 8.59	131 57.8	51	40					
17	DE02	22:47	BE	CTD		351	54 8.52	131 57.845	49	40					Salinity, net, CTD
17	DE02	22:48	BO				54 8.513	131 57.853							
17	DE02	22:49	BE				54 8.511	131 57.863							
17	DE02	23:01	BE	TRawl		352	54 8.665	131 57.902	51						
18	DE01	01:24	BE	Bongo		353	54 15.42	131 39.44	118	110					
18	DE01	01:34	BE	CTD		354	54 15.47	131 39.58	118	110					Salinity, net, CTD
18	DE01	01:36	BO				54 15.48	131 39.60							
18	DE01	01:38	BE				54 15.48	131 39.62							
18	DE01	00:42	BE	TRawl		355	54.1398	131 42.37							
19	H06	15:15	BE	Bongo		356	52 28.83	130 28.82	175	150					
19	H06	15:28	BE	CTD		357	52 28.90	130 28.7	175	165					Salinity, net, CTD
19	H06	15:31	BO				52 28.92	130 28.6							
19	H06	15:34	BE				52 28.93	130 28.6							
19	H06	15:48	BE	TRawl		358	52 28.84	130 28.84	174						

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Transmissometer to be cleaned for each cast, do not use Ammonia products

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>November 13-12</u>				Year <u>2005</u>		Ship <u>F.V. Frost</u>				Cruise ID <u>2005-28</u>					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
19	H05	17:20	BE	BONGO		359	52 25.48	130 13.24	327	150					
19	H05	17:32	BE	CTD			52 25.65	130 13.06	325	200					NOTS, CHLORO
19	H05	17:36	BO			360	52 25.7	130 13.0							
19	H05	17:40	BO				52 25.76	130 12.95							
19	H05	17:52	BE	TRAWL		361	52 25.56	130 13.2	326						
19	H04	19:24	BE	BONGO		362	52 22.16	129 54.65	195	150					
19	H04	19:36	BE	CTD		363	52 22.32	129 54.59	206	200					SALINITY, NOTS, CHLORO
19	H04	19:40	BO				52 22.38	129 54.56							
19	H04	19:44	BO				52 22.43	129 54.52							
19	H04	19:56	BE	TRAWL		364	52 22.18	129 54.612	195						
19	H03	21:32	BE	BONGO		365	52 18.80	129 42.02	208	150					
19	H03	21:43	BE	CTD		366	52 18.96	129 41.97		200					NOTS, CHLORO
19	H03	21:47	BO				52 19.02	129 41.95							
19	H03	21:51	BO				52 19.08	129 41.92							
19	H03	22:03	BE	TRAWL		367	52 19.06	129. 42.00	213						

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>November</i>		Year <i>2005</i>		Ship <i>F.V. Kestrel</i>		Cruise ID <i>2005-28</i>									
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
19	HOZ	23:37	BE	Bottle		368	52 15.5	129 26.3	186	150					
19	HOZ	23:40	BE	CTD		369	52 15.6	129 26.3	184	175					Salinity, NUTS
19	HOZ	23:51	BO				52 15.67	129 26.24							CHLORO.
19	HOZ	23:55	BE				52 15.7	129 26.21							
20	HOZ	00:05	BE	TRAMP		370	52 15.6	129 26.2	184						
20	TO1	15:13	BE	Bottle		371	51 16.38	128 20.32	78	70					
20	TO1	15:21	BE	CTD		372	51 16 42	128 20 42	79	70					Salinity, NUTS
20	TO1	15:23	BO				51 16 43	128 20 42							CHLORO.
20	TO1	15:24	BE				51 16 43.6	128 20 43							
20	TO1	15:34	BE	TRAMP		373	51 16 5	128 19 48	77						
20	TO2	16:47	BE	Bottle		374	51 12.5	128 27.97	193	180					
20	TO2	16:59	BE	CTD		375	51 12.5	128 28.1	192	180					NUTS, CHLORO
20	TO2	17:02	BO				51 12.54	128 28.14							
20	TO2	17:06	BE				51 12.55	128 28.18							
20	TO2	17:19	BE	TRAMP		376	51 12.42	128 27.95	192						

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DAILY LOG

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INSTITUTE OF OCEAN SCIENCES

Month <i>November</i>				Year <i>2005</i>			Ship <i>F.V. Kroger</i>			Cruise ID <i>2005-28</i>					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
20	T03	18:26	BE	BONGO		377	51 08.55	128 36.025	141	130					
20	T03	18:36	BE	CTD		378	51 08.68	128 36.09	143	135					SALINITY, NUTS, CHLORO
20	T03	18:41	BO				51 08.72	128 36.104							CHLORO
20	T03	18:43	BU				51 08.74	128 36.11							
20	T03	18:55	BE	TRAWL		379	51 08.59	128 35.90	143						
20	T04	20:04	BE	BONGO		380	51 04.43	128 44.012	62	50					
20	T04	20:13	BE	CTD		381	51 04.40	128 44.02	62	55					NUTS, BONGO
20	T04	20:41	BO				51 04.40	128 44.02							
20	T04	20:15	BU			382	51 04.40	128 44.02							
20	T04	20:29	BE	TRAWL		383	51 04.5	128 44.00	63						
20	T05	21:41	BE	BONGO		384	50 59.988	128 51.947	61	50					
20	T05	21:49	BE	CTD		385	50 59.97	128 51.8	63	56					SALINITY, NUTS, BONGO
20	T05	21:50	BO				50 59.97	128 51.79							CHLORO
20	T05	21:51	BO				50 59.97	128 51.775							
20	T05	22:03	BE	TRAWL		386	51 00.04	128 51.92	63						

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