

DAILY LOG BOOK

MISSION
NUMBER

2002-15

DATE:

From: JUNE 15

to: JUNE 30

VESSEL:

OCEAN SELECTOR

PROJECT:

W-1 GH - Hi SEAS SALMON

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

Captain: PAUL } OCEAN
Second Officer: HEATH } SELECTION
Third Officer: DAVE } (CHARTER)
Mission Participants / Agencies: PBS / 105

[illegible][illegible]

Data logging computer: DELL LATITUDE (4045)

Data acquisition program: SCATE RA
 CTD deck unit make: _____ model: _____ serial number: _____
 Primary CTD

Make: SENSORED model: SEE 19 serial number: 1294

Primary temperature serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: _____ s/n: _____

Oxygen sensor: _____ Model: _____ s/n: _____

PAR sensor: _____ Model: _____ s/n: _____

Other sensors: STRAIN GAUGE PRESSURE SENSOR s/n: 163223 **P, S or NO pump?**

Other sensors: PUMP s/n: 050424 **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 serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: _____ s/n: _____ P, S or NO pump?

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

PAR sensor: _____ Model: _____ s/n: _____

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

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

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

DAILY LOG

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Month					Year			Ship				Cruise ID		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
16	JF01	0842	CTD	BE	001	48 23 269	124 07 430	140	100		1			SBE 19 TEST CAST
	1542	0345	BONGO	BO	002	48 23 235	124 07 367							SAL/NUT/CHL
	1545		TRAWL	EN	003	48 23 200	124 07 317							
		1602	BONGO	BE	002	48 23 58	124 07 140		100					BONGO
		1628	TRAWL	BE	003	48 23 328	124 07 897							TRAWL
	JF02	1746	TRAWL	BE	004	48 29 94	124 29 237							TRAWL
	JF03	2009	TRAWL	BE	005	48 32 702	124 40 964							TRAWL
	VI01	2310	TRAWL	BE	006	48 43 22	124 14 278							TRAWL
17	EP01	14:15	CTD	BE	007	49 21 139	126 31 564	35	30		1			CTD & SAL/NUT/CHL
		14:16		BO		49 21 86	126 31 591							
		14:18		EN		49 21 218	126 31 606							
	EP01	14:25	BONGO	BE	008	49 21 326	126 31 653	36	30					BONGO
		15:00	TRAWL	BE	009	49 20 014	131 32 134		3					TRAWL
17	EP02	16:04	CTD	BE	010	49 18 715	126 35 883	85	75		1			SAL/NUT/CHL CTD
		16:10		BO	010	49 18 719	126 35 973							
		16:16		EN	010	49 18 925	126 36 088							
		16:25	BONGO	BE	011	49 18 930	126 36 090							BONGO
		16:40	TRAWL	BE	012	49 19 097	126 39 118							TRAWL

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

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MR = messenger release time
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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						Latitude	Longitude								
17	EP03	180605	CTD	BE	013	49 16 59.5	126 40 43.2	108	90		1			CTD = SAL/NUT/CHL	
				BO										Comments OK	
				CH											
		180635	NET	BE	014	49 16 60	126 40 45		90					BONGO	
	12	180656	TRAWL	BE	015	49 17 99	126 42 32.8							TRAWL	
17	EP04	200904	CTD	BE	016	49 14 86.6	126 45 08.8	140	125		1			CTD = SAL/NUT/CHL	
		200922	NET	BE	017	49 15 34.6	126 45 52.4	140	120					BONGO	
	12	200947	TRAWL	BE	018	49 16 03.0	126 46 29.2								
18	EP05	0012	CTD	BE	019	49 12 27.0	126 49 40.2	146	130		1			CTD & NISKIN BROKE - NO SAMPLES	
		0028	BONGO	BE	020	49 12 6.7	126 49 40.2	146	130					BONGO	
	24	0205	TRAWL	BE	021	49 13 37.2	126 49 86.8								
18	EP06	0229	CTD	BE	022	49 09 99.6	126 54 23.9	192	150		1			CTD = SAL/NUT/CHL	
			BONGO	BE	023										
	24	0308	TRAWL	BE	024	49 09 62.1	126 53 14.3								
	EP07	0442	TRAWL	BE	025	49 07 25.8	126 57 87.1								
	EP08	0625	TRAWL	BE	026	49 01 88.5	127 10 59.8								

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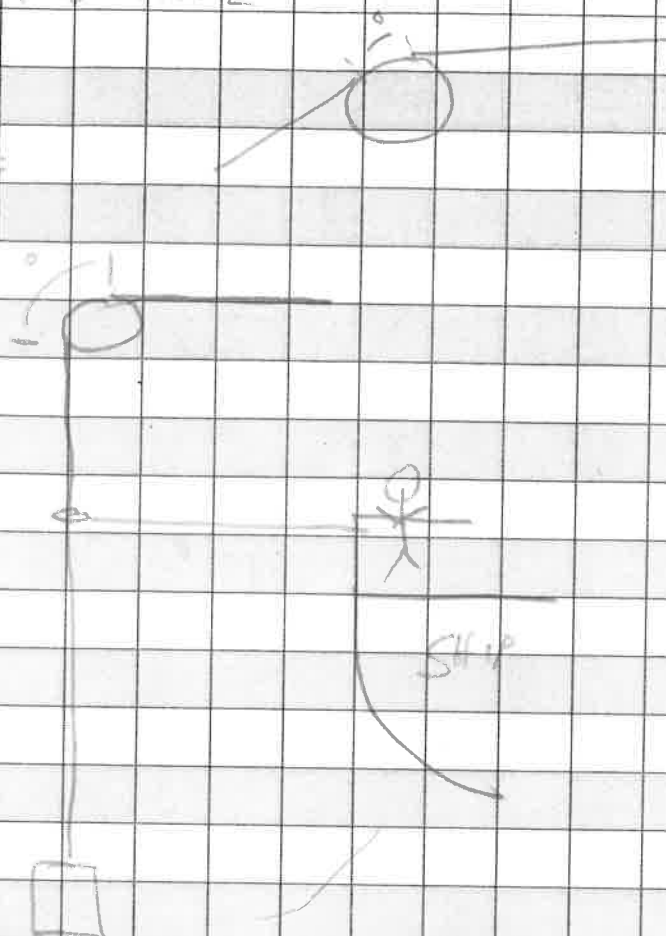
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Additional comments

EP 03 - CTD WINCH BLOCK STOPPED COUNTING ON WAY UP DUE TO WIRE $\angle^{\circ}$

WILL FIX BY RUNNING WIRE THROUGH RING

* PRIOR TO EPOS A 12 HR GMT CLOCK WAS USED.
BEGINNING AT 1205 AND FROM THEN ON -
A 24 HR GMT CLOCK WAS USED TO CONVERT
LOCAL TIME TO GMT.



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						Latitude	Longitude							
18	EP 11	1429	CTD	BE	027	48 37 80	127 55 746	71400	150		1			CTD = SALN / NUT / CHL
		1445	NET	BE	028	48 37 747	127 55 464		150					BONGO
		1510	TRAWL	BE	029	48 37 907	127 54 605							TRAWL
18	EP 10	1651	CTD	BE	030	48 46 024	127 41 676	> 1400	150		1			CTD = SALN / NUT / CHL
		1704	NET	BE	031	48 45 943	127 41 440		150					BONGO
		1745	TRAWL	BE	032	48 46 242	127 40 139							TRAWL
	EP 9	1922	CTD	BE	033	48 53 849	127 26 256				1			CTD = SALN / NUT / CHL
		1932	NET	BE	034	48 53 761	127 26 129							BONGO
		1955	TRAWL	BE	035	48 53 896	127 26 700							
19	T 13	1403	CTD	BE	036	50 18 513	130 20 277	> 1400	150		1			CTD = SALN / NUT / CHL
		1414	N-CT	BE	037	50 18 399	130 20 292		150					Bongo
		1445	TRAWL		038	50 18 752	130 20 464							TRAWL
19	T 12	1602	CTD	BE	039	50 22 772	130 09 514	> 1400	150		1			CTD = SALN / NUT / CHL
		1613	NET	BE	040	50 22 612	130 09 395		150					BONGO
		1652	TRAWL	BE	041	50 22 810	130 09 005							TRAWL

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						Latitude	Longitude							
19	T 11	1744	CTD	BE	042	50 27 721	129 59 315	>1400	150		1			CTD = SALH / NUT / CHL
		1754	NET	BE	043	50 27 728	129 59 343		150					BONGO
		1810	TRAWL	BE	044	50 28 119	129 59 036							
19	T 10	1924	CTD	BE	045	50 32 508	129 49 636	>1400	150		1			CTD = SALH / NUT / CHL
		1935	NET	BE	046	50 32 564	129 49 699		150					BONGO
		1957	TRAWL	BE	047	50 32 806	129 49 588							
19	T 09	2103	CTD	BE	048	50 37 162	129 39 340	>1400	200		1			CTD = SALH / NUT / CHL
		2116	Bongo	BE	049	50 37 064	129 39 130		150					Bongo
		2137	TRAWL	BE	050	50 36 898	129 38 424							
19	T 08	2247	CTD	BE	051	50 41 963	129 29 265	>1400	200		1			CTD = SAL / NUT / CHL
		2305	Bongo	BE	052	50 41 886	129 29 153		150					Bongo
		2322	Net	BE	053	50 41 861	129 28 463							
20	T 07	0059	CTD	BE	054	50 49 458	129 12 898	90	75		1			CTD = SAL / NUT / CHL
		0111	Bongo	BE	055	50 49 497	129 12 963	90	70					Bongo
		0127	TRAWL	BE	056	50 49 951	129 13 074							

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						Latitude	Longitude							
20	T06	0334	CTD	BE	057	50 55 919	128 59 765	60	50		1			CTD SAL / NUT / CHL
		0345	NET	BE	058	50 55 976	128 59 531	60	50					BONGO
		0405	TRAWL	BE	059	50 56 611	128 58 432							
20	T05	1400	CTD	BE	600	51 00 760	128 51 422	60	50		1			CTD / SAL / NUT / CHL
		1406	NET	BE	601	51 00 887	128 51 311	60	50					Bongo
		1430	TRAWL	BE	602	51 01 699	128 51 688							
20	T04	1525	CTD	BE	63	51 04 424	128 43 886	60	50		1			CTD - SAL / NUT / CHL
		1542	NET	BE	64	51 04 439	128 43 846	62	50					Bongo
		1604	TRAWL	BE	65	51 04 587	128 43 004							TRAWL
20	T03	1712	CTD	BE	66	51 08 485	128 35 710	140	125		1			CTD - SAL / NUT / CHL
		1721	NET	BE	67	51 08 505	128 35 1633	140	130					Bongo
		1732	TRAWL	BE	68	51 08 368	128 35 050							TRAWL
20	T02	1900	CTD	BE	69	51 12 496	128 28 065	192	150		1			CTD - SAL / NUT / CHL
		1910	NET	BE	70	51 12 361	128 28 008	192	150					Bongo
		1936	TRAWL	BE	71	51 12 408	128 27 369							TRAWL

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						Latitude	Longitude							
20	T01	20:49	CTD	BE	72	51 16 54.4	128 20 021	77	60		1			CTD - SAL/NUT/CHL & OICR
		20:56	Bongo	BE	73	51 16 47.4	128 20 103	77	60					Bongo
		21:17	TRAWL	BE	74	51 15 90.2	128 20 078							TRAWL
20	QCS01	2358	TRAWL	BE	75	51 20 58.6	127 58 535							TRAWL
21	R101	0146	CTD	BE	76	51 26 25.1	127 38 109.3	329	150		1			CTD - SAL/NUT/CHL
		0156	Bongo	BE	77	51 26 23.1	127 38 75.9	329	150					Bongo
		0220	TRAWL	BE	78	51 26 37.9	127 38 36.5							TRAWL
21	H01	1358	CTD	BE	79	52 12 00.8	129 10 20.3	158	140		1			CTD w/ SAL/NUT/CHL
		1409	Bongo	BE	80	52 11 91.5	129 10 11.8	158	140					Bongo
		1436	TRAWL	BE	81	52 12 25.9	129 10 16.8							TRAWL
21	H02	1610	CTD	BE	82	52 15 64.8	129 25 79.5				1			CTD = SAL/NUT/CHL
		1620	NET	BE	83	52 15 59.3	129 26 06.0							BONGO
		1640	TRAWL	BE	84	52 15 86.1	129 26 54.2							TRAWL

Additional comments

NOTE * CAST TO1 NAMED TO1 220215000.HEY INSTEAD OF TO1 200215000.HEY

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						Latitude	Longitude								
21	H03	1806	CTD	BE	85	52 18 670	129 40 716	208	150		1			CTD & SAL NUT CHL	
		1817	NET	BE	86	52 18 714	129 40 561	208	150					Bongo	
		1840	TRAWL	BE	87	52 18 963	129 40 643								
														1	
21	H04	2024	CTD	BE	88	52 22 528	129 57 303	219	150		1			CTD & SAL/NUT/CHL	
		2035	NET	BE	89	52 22 423	129 57 288	219	150					Bongo	
		2100	TRAWL	BE	90	52 22 524	129 57 788								
21	H05	2234	CTD	BE	91	52 25 546	130 13 152	325	150		1			CTD w/ SAL/NUT/CHL	
		2244	NET	BE	92	52 25 529	130 13 019	325	150					Bongo	
		2310	TRAWL	BE	93	52 26 453	130 12 908								
22	H06	0049	CTD	BE	94	52 28 950	130 28 939	174	150		1			CTD w/ SAL/NUT/CHL	
		0100	NET	BE	95	52 29 048	130 28 976	174	150					Bongo	
		0120	TRAWL	BE	96	52 29 089	130 29 480								
22	H07	0242	CTD	BE	97	52 32 078	130 43 955	120	100		1			CTD & SAL/NUT/CHL	
		0250	NET	BE	98	52 32 248	130 44 007	120	110					Bongo	
		0310	TRAW	BE	99	52 32 668	130 43 506								

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						Latitude	Longitude							
22	H501	1428	CTD	BE	100	53 14 608	130 07 097	107	95		1			CTD w/ SAL/ Nut/ CHL
		1435	Bongo	BE	101	53 14 702	130 07 144	107	90					Bongo
		1455	TRAWL	BE	102	53 15 211	130 07 648							
22	H502	1627	CTD	BE	103	53 22 790	130 19 619	107	90		1			CTD = SAL/ Nut/ CHL
		1635	NET	BE	104	53 22 896	130 19 773	107	90					Bongo
		1653	TRAWL	BE	105	53 23 333	130 20 299							
22	IBC01	1953	CTD	BE	106	53 38 470	130 26 120	149	130		1			CTD = SAL/ Nut/ CHL
		2003	NET	BE	107	53 38 515	130 26 161	149	130					Bongo
		2028	TRAWL	BE	108	53 38 259	130 25 622							
22	IBC02	2152	CTD	BE	109	53 33 726	130 12 013	149	120		1			CTD w/ SAL/ Nut/ CHL
		2200	NET	BE	110	53 35 692	130 11 963	149	110					Bongo
		2222	TRAWL	BE	111	53 33 350	130 10 859							
23	IBC03	0033	CTD	BE	112	53 42 449	130 08 798	109	100		1			CTD w/ SAL/ Nut/ CHL
		0054	TRAWL	BE	113	53 42 088	130 08 864							

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						Latitude	Longitude							
23	1BC04	0318	TRAWL	BE	114	53 50 624	130 18 051							
23	DE01	2349	CTD	BE	115	54 20 309	131 04 301	91	80		1			CTD w/ SAL/ Nut/ CHL
	"	2356	Bongo	BE	116	54 20 585	131 04 521	91	80					Bongo
24	"	00:25	TRAWL	BE	117	54 21 883	131 05 122							
25	DE02	1700	CTD	BE	118	54 12 375	131 45 952	99	80		1			CTD w/ SAL/ Nut/ CHL
		17:23	TRAWL	BE	119	54 11 425	131 49 703							
25	DE03	1825	CTD	BE	120	54 10 189	131 53 184	71	60		1			CTD w/ SAL/ Nut/ CHL
		1830	Bongo	BE	121	54 10 333	131 53 120	71	60					Bongo
		1850	TRAWL	BE	122	54 10 340	131 53 707							
25	DE04	2020	CTD	BE	123	54 12 438	132 06 286	111	100		1			CTD w/ SAL/ Nut/ CHL
		2027	Bongo	BE	124	54 12 503	132 06 064	111	100					Bongo
		20:47	TRAWL	BE	125	54 12 578	132 06 385							

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						Latitude	Longitude							
25	DE05	2206	CTD	BE	126	54 11 091	132 15 373	104	90		1			CTD w/ SAL/ Nut/ CHL
		2212	Bongo	BE	127	54 11 120	132 15 317	104	90					Bongo
		22:37	TRAWL	BE	128	54 11 111	132 15 832							
25	DE06	2346	CTD	BE	129	54 11 060	132 27 224	91	80		1			CTD w/ SAL/ Nut/ CHL
		2353	Bongo	BE	130	54 11 496	132 27 327	91	80					Bongo
26	"	00:12	TRAWL	BE	131	54 11 171	132 28 138							
26	DE07	0127	CTD	BE	132	54 12 069	132 42 186	109	100		1			CTD w/ SAL/ Nut/ CHL
		01:39	Bongo	BE	133	54 12 134	132 42 240	109	90					Bongo
		01:57	TRAWL	BE	134	54 11 988	132 43 944							
26	D13	14:19	CTD	BE	135	53 56.720	134. 54.232	71400	150		1			CTD w/ SAL/ Nut/ CHL
		14:29	Bongo	BE	136	53.56.842	134 54 205	71400	150					Bongo
		14:50	TRAWL	BE	137	53 56 887	134 53.800							
26	D12	16:00	CTD	BE	138	53 59 156	134 40 265	71400	150		1			CTD w/ SAL/ Nut/ CHL
		16:09	Bongo	BE	139	53 59 222	134 40 739	71400	150					Bongo
		16:30	TRAWL	BE	140	53 39 305	134 40 272							

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

• Time Code
• BE = beginning time of cast
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Transmissometer to be cleaned for each cast, do not use Ammonia products

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month					Year			Ship				Cruise ID		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
26	D11	1748	CTD	BE	141	54 02 494	134 28 367	71400	150		1			CTDW/SAL/Nut/CHL
		1755	Bongo	BE	142	54 02 542	134 28 542	71400	150					Bongo
		1815	TRAWL	BE	143	53 02 644	134 28 304							
26	D10	1932	CTD	BE	144	54 07 225	134 16 317	71400	150		1			CTD w/SAL/Nut/CHL
		1941	Bongo	BE	145	54 07 449	134 16 249	71400	150					Bongo
		20:03	TRAWL	BE	146	54 07 796	134 15 712							
26	D09	2107	CTD	BE	147	54 09 619	134 03 506	71400	150		1			CTD w/SAL/Nut/CHL
		2116	Bongo	BE	148	54 09 846	134 03 208	71400	150					Bongo
		21:37	TRAWL	BE	149	54 10 043	134 02 384							
26	D08	2244	CTD	BE	150	54 12 727	133 49 561	457	150		1			CTD w/SAL/Nut/CHL
		2255	Bongo	BE	151	54 12 865	133 49 301	457	150					Bongo
		23:28	TRAWL	BE	152	54 13 240	133 48 021							
27	D07	0036	CTD	BE	153	54 16 675	133 37 019	275	150		1			CTDW/SAL/Nut/CHL
		00:46	Bongo	BE	154	54 16 788	133 36 936	275	150					Bongo
		01:09	TRAWL	BE	155	54 16 907	133 36 151							

Cast type:

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Additional comments

→ Bottle Did Not Trip Correctly 1st Time Down (Caught on loop) Lowered to 10m and Re-Tripped
for Sample

DAILY LOG

Ocean Sciences and Productivity Division

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Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments	
						Latitude	Longitude								
27	D06	0214	CTD	BE	156	54 19 157	133 24 437	274	150		1			CTD w/SAL/Nut/CHL	
		0225	Bongo	BE	157	54 19 227	133 24 387	274	150					Bongo	
		0245	TRAWL	BE	158	54 19 448	133 23 923								
27	D05	0404	CTD	BE	159	54 22 216	133 11 764	457	150		1			CTD w/SAL/Nut/CHL	
		0413	Bongo	BE	160	54 22 311	133 11 830	457	150					Bongo	
		0435	TRAWL	BE	161	54 22 997	133 11 270								
27	IBC05	2023	CTD	BE	162	53 22 349	129 51 526	205	150		1			CTD w/SAL/Nut/CHL	
		2034	Bongo	BE	163	53 22 527	129 51 742	205	150						
		2108	TRAWL	BE	164	53 22 254	129 51 088								
27	IBC06	2320	CTD	BE	165	53 08 321	129 37 039	151	140		1			CTD w/SAL/Nut/CHL	
		2326	Bongo	BE	166	53 08 329	129 37 048	151	140						
		2353	TRAWL	BE	167	53 07 650	129 36 412								
28	IBC07	0219	CTD	BE	168	52 53 212	129 15 325	236	150		1			CTD w/SAL/Nut/CHL	
		0225	Bongo	BE	169	52 53 210	129 15 325	236	150						
		0245	TRAWL	BE	170	52 53 695	129 15 041								

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Additional comments

* Note → Meter Block did not work very well - Kept Sticking therefore CTD Brought
to Surface then lowered to 10m for water Sampling.
→ METER BLOCK DID NOT HAVE ANY PROBLEMS ON THE DOWN CAST,
SO TARGET DEPTHS WERE ACHIEVED ACCURATELY, BUT THE
METER BLOCK DID STICK ON THE UP CAST.

DAILY LOG

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						Latitude	Longitude							
28	IBC08	1444	CTD	BE	171	51 51 983	127 54 193	250	150		1			CTD w/ SAL/ Nut/ CHL <i>note</i> *
		1454	Bongo	BE	172	51 51 919	127 54 174	250	150					Bongo
		15:25	TRAWL	BE	173	51 50 905	127 54 404							
28	IBC09	1633	CTD	BE	174	51 43 242	127 53 824	118	100		1			CTD w/ SAL/ Nut/ CHL *
		1641	Bongo	BE	175	51 43 289	127 53 825	118	100					Bongo
		1700	TRAWL	BE	176	51 43 930	127 54 074							
28	IBC10	1802	CTD	BE	177	51 36 075	127 54 024	248	150		1			CTD w/ SAL/ Nut/ CHL *
		1810	Bongo	BE	178	51 36 060	127 54 005	248	150					Bongo
		1833	TRAWL	BE	179	51 35 441	127 53 650							
28	RI02	1911	CTD	BE	180	51 30 817	127 33 196	210	150		1			CTD w/ SAL/ Nut/ CHL * *
		1923	Bongo	BE	181	51 30 580	127 33 483	210	150					Bongo
		1945	TRAWL	BE	182	51 30 536	127 33 423							SALINITY at 150 m *
28	RI03	2238	CTD	BE	183	51 34 642	127 32 268	330	150		1			CTD w/ SAL/ Nut/ CHL *
		2245	Bongo	BE	184	51 34 401	127 32 298	330	150					Bongo
		2308	TRAWL	BE	185	51 34 523	127 32 297							

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Note

* Same with Problem as before → to surface then down 10m for H₂O Sample

* RI02 - 2 salinities, 1st at 10m and 2nd at 150m

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[illegible]

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Additional comments

Note → Same Problem as before → Up to Surface then Back down to 10m for H₂O Sample

PAUL, THE ENGINEER ON THE OCEAN SURVEYOR, MACHINED THE GROOVE ON THE METAL BLOCK. TO KEEP IT FROM BINDING. THE PROBLEM SEEMS TO BE FIXED.