

DAILY LOG BOOK

MISSION
NUMBER

2006 - 01
2006 - 02

DATE:

From: 29 JUNE 2006 to: 22 JULY 2006

VESSEL:

SIR WILFRID LAURIER

PROJECT:

JWACS

25 SEP 2006 - 8 OCT 2006

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

Captain: _____
 Second Officer: Mark Taylor First Officer: Steve Kennedy
 _____ Third Officer: Van Capping
 Mission Participants / Agencies: _____

Mission Participants / Agencies:

Scientific Personnel: Name	Party Chief:	Watch	Cabin	Name
			BILL WILLIAMS	

Second leg of Mission:
Name Humphrey Melling Party Chief: Humphrey Melling
Mobyke Itch Watch DFO Cabin Janster

Second leg of Mission: _____
 Name _____
 Party Chief: Humphrey Watch _____ Cabin _____
Humphrey Melling Name _____
Humphrey Melling DFO _____ Watch _____ Cabin _____

Data logging computer:

Data acquisition program: _____

Data acquisition program: Seasave Win32 V5.33
CTD deck unit make: SBE model: 33 serial number: 33-23102-0050

Primary CTD

Make: SBE25 model: 25 serial number: 0293
Primary temperature serial number: 4311

Primary temperature serial number: 03-455

Secondary conductivity serial number: 04-2667

Secondary temperature serial number: None

Secondary conductivity serial number: Name
Transmissometer: Ser. No.

Fluorometer: Model	Model:
Shimadzu RF-10A	Shimadzu RF-10A

Oxygen sensor: SBE 42

PAR sensor: CODE 43 Model: 43

Other sensors: Pressure
Model:

Other sensors: Pressure 23-1

Other sensors:

Other sensors:

Primary CTD

Make: None model:

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

primary conductivity serial number.

secondary temperature serial number: _____

secondary conductivity serial number: _____

transmissometer: _____

Model: _____

fluorometer: Model _____
Model: _____
Cable gain: _____

oxygen sensor: _____
Cable gain: _____
Model: _____

AR sensor: _____ Model: _____

Model: _____

Other sensors: _____

Other sensors:

Other sensors: _____

her sensors:

calibration bottle location (height above CTD in metres): Meaningless — depends on sampling strategy

Rosette Setup:

Number of bottles: 12
Manufacturer: SeaBird SBE 32-15407
Volume of Bottles (litres): 7

Winches:

1. Make: <u>Hawbolt</u>	Model:	Serial #:	used for:
2. Make:	Model:	Serial #:	used for:
3. Make:	Model:	Serial #:	used for:

Comments on performance during cruise:

Salinometer:

Make: Model: Serial #:

Comments on performance during cruise:

Oxygen Kit #

Comments on performance of kit and chemicals:

Thermosalinograph System:

Program: Sea Save Version: _____
Sampling interval (seconds): 10s
Fluorometer sensor serial number: _____

Comments on performance during cruise:

re-circulation Pump freezes up in cold seas

ADCP Setup:

Computer time zone: None **User Exits:** Name: Exit Points:
Sampling interval (seconds): _____ Name: Exit Points:
Bin Length (2^x): _____ Name: Exit Points:
Pulse Length: _____
Buffer (bytes): _____ **Work File:** _____
Gyro Offset: _____

Comments:

CTD Test Cast Information

Test Cast at IOS Jetty? (optional) yes ☐ no ☐

Comments: (i.e. how did everything work??)

Test cast in Saanich Inlet? (recommended) yes ☐ no ☐

If no, give reason: _____

Comments: (i.e. how did everything work??)

CTD pressure reading on deck (db): _____
(Should be 0.0 db $\pm$ 0.5)

Pumps working? yes ☐ no ☐
(i.e.. Was the red LED display on the deck unit 0011 and not still 0010?)

Secondary Temp- Primary Temp: _____
(Average from the Mixed Region)

Secondary Salinity- Primary Salinity: _____
(Average from the Mixed Region)

Additional Comments:

2006-01-001

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

OCEANOGRAPHY DIVISION										INSTITUTE OF OCEAN SCIENCES								
Month		JUNE/JULY		Year			2006			Ship		LAURIER		Cruise ID			2006-01	
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										
29	TEST0		BE	ROS	UN	001									didn't go in the water			
1	Test 1	18:50	BE	ROS001*	UN	001	48 21.705N	124 14.297W	196.3	10	—	12	SK/BW		12 bottles fired successfully No samples taken.			
1	Test 2	22:05 10:05	BE	ROS002	UN	002	48 29.994	124 44.086W	261m	215	1-12	12	SK/		Nutrient sample 11 in glass lid broke on tightening after Pressure - lid replaced			
1	Test 2			Bongo		003	48 29.994	124.44.086		100			KD					
1	Test 2			Net		004	48.29.994	124.44.086		100			KD					
2	NP1	5:28	BE	ROS003	UN	005	48 43.1359	126 01.7142	100m	88 m	13-20	9	SK		Bloom count only			
2	NP2	14:11	BE	ROS004	UN	006	49 31.5936	128 01.9898	2502m	1000m	21-32	12	SK		SK fired 750m bottle at 175m			
		15:02	EN				49 31.6622	128 01.9351										
2	NP2			Bongo		07	49 31.7173	128 02.1803		100m			KD		Station 1.			
2	NP2			Net		08	49 31.7173	128 02.1803		100 m			KD		Station 1.			

Cast type: USW = sea water loop bottle firing method: 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
 BO = bottom time of cast
 EN = end time of cast

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

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

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* Note: CTD file names were broken 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

DAILY LOG

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
							Latitude	Longitude							
3	NP3	1:38	BE	ROS005	UN	009	50 12.0281	130 27.5433	2405	1000m	33-44	12	SK/RW		Water was being pumped out of the side of the ship above the CTD. May have contaminated the surface bottle.
		1:57	BO				50 11.984	130 27.101	2417						
		2:14	BN				50 11.9867	130 27.0768	2394						
3	NP3			Bongo		010	50 11.9819	130 27.0785	"	100M			KD		STATION 2
3	NP3			Net		011	NO NET	TAKEN					KD		
3	NP4	14:14	BE	ROS006		012	50 55.095	133 18.336	2005	1000m	45-56	12	SK/RW		Samples taken for IOS and Peter
		14:50	BN				50 54.989	133 18.104	2001						
3	NP4			Bongo		013	50 55.0098	133 18.1843	2001				KD		STATION 3
3	NP4			Net		014	50 55.0098	133 18.1843	2001				KD		STATION 3
3	NP4a	15:43	BE	ROS007		015	50 54.916	133 18.401	2004	100	Only samples for Brienne	11	SK/RW	✓	Samples taken for Brienne.
		15:49	BO				50 54.861	133 18.343	2006						CTD file called NP4a
		15:54	BN				50 54.797	133 18.281	1993						
4	NPS	1:42	BE	ROS008	UN	016	51 29.068	135 53.627	2878	1000	57-68		SK/RW	✓	continued acquiring after CTD was on deck to check trans
1		2:01	BO				51 29.084	135 53.591	2880						
4	NPS			Bongo		017	51 29.1893	135 53.5935					KD		STATION 4

Cast type:

BOT = bottle cast, no CTD
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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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DE = deployment time
MR = messenger release time
RE = recover mooring time

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				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	
4	NP6	14:15	BE	ROS009	UN	018	52 01.406	138 47.404	2863	1000	69-80	12	SK/RW	✓	O-rings on spigots 2,3,4 were broken and covered with elastic bands.	
		14:37	BO				52 01.377	138 47.271	2871							
		14:56	BN				52 01.418	138 47.189	2872							
4	NP6			Bongo		019	52° 01.4031	138° 47.2759	2870	100			KD		STATION 5	
4	NP6			Net		020	52° 02.7791	138° 55.1548	2870	100			KD		STATION 5	
5	NP7			Bongo		021	52° 26.8121	141° 18.7727		100			KD		STATION 6	
5	NP7	01:22	BE	ROS010	UN	022	52 26.717	141 18.859	?	1000	81-92	12	SK/RW	✓	Sounder gave uncharted depth of 330m. ROS approached very slowly just in case. Down cast at .5-1.5m with manual winch, down to 360m 1m/s the rest of the way down and backup.	
		2:30	BO				52 26.814	141 18.773	>1000	1000						
		2:55	BN				52 26.71	141 19.07								
5	NP8	14:06	BE	ROS011	UN	023	52 51.786	144 21.754	>1000	1000	93-104	12	SK/RW	✓	See notes next page	
			BO				52 51.851	144 21.529								
		14:49	BN				52 51.881	144 21.417								
5	NP8			Bongo		024	*52° 51.8574	144° 21.5114	>1000				KD		STATION 7	
5	NP8			Net		025	*52 51.8574	144° 21.5114	>1000				KD		STATION 7	

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Starting at NP8 the CTD is lowered to 5m and left to equilibrate for 2min, brought back to the surface and then the CTD cast is started.

CTDs prior to NP8 (Ros011) the oxygen sensor may not have had enough time in the water ^{with pumps on} before the cast began. Pressure sensor on for 2 min before beginning of down cast.

DAILY LOG

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
5	NPS	15:36	BE	ROSD12	UN	026	52 51.917	144 21.0751	>1000	200	Samples for Brienne	10	SK/RW		
		15:44	BO				52 51.91	144 21.019							
		15:50	BN				52 51.905	144 20.998							
6	NP9	1:32	BE	ROSD13	UN	027	53 9.049	146 57.814	>1000	1000	105-116	12	SK/RW		See Notes next page →
		1:55	BO				53 9.100	146 57.82							
		2:14	BN				53 9.13	146 57.85							
6	NP9			Bongo		028	53° 09.1018	146° 57.3273		100			KD		station 8
6	NP10	14:05	BE	ROSD14	UN	029	53 26.286	150 17.044	>1000	1000	117-128	12	SK/RW	✓	Chart has depth of 4070m
		14:31	BO				53 26.359	150 17.068							
		14:50	BN				53 26.31	150 17.152							
6	NP10			Bongo		030	53° 26.3506	150° 17.0944		100			KD		station 9
	NP10			Net		031	53° 26.3506	150° 17.0944		100			KD		station 9
6	NP10	15:38	BE	ROSD15	UN	032	53 26.444	150 17.363	>1000	250	Samples for Brienne Kelly		SK/RW		
			BO												
		15:54	BN				53 26.505	150 17.399							

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Freezer was turned up 2-3°C after these samples were put in the fridge. Samples already in the freezer remained frozen, however, samples 105-116 froze very slowly (12 hours).

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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
7	NP11	00:58	BE	ROSO16	UN	033	53° 35.827	152° 53.286	>1000	1000	129-140	12	SK/RW	✓	chart read depth at 2350 fathoms
		01:42	BN				53° 35.831	152° 53.307							nice sunny weather.
7	NP11			Bongo		035	53° 35.8273	152° 53.3215		100			KD		station 10
7	NP12	14:14	BE	ROSO17	UN	036	53° 36.647	156° 15.347	>1000	1000	141-152	12	SK/RW	✓	chart 2570 fathoms
		14:38	BO				53° 42.110	156° 00.176							
		14:57	BN				53° 42.23	156° 00.21							
7	NP12			Bongo		037	53° 42.1442	156° 00.1767		100			KD		station 11
7	NP12			Net		038	53° 42.1442	156° 00.1767		100			KD		station 11
8	NP13	1:32	BE	ROSO18	UN	039	53° 44.452	158° 28.414	>1000	100	153-164	12	SK/RW C/O	✓	3510 fathoms
		1:57	BO				53° 44.535	158° 28.448					SK		
		2:18	BN				53° 44.565	158° 28.551							
8	NP13			Bongo		040	53° 44.5284	158° 28.4913		100			KD		station 12
8	NP14	14:13	BE	ROSO19	UN	041	53° 41.64	161° 53.32	>1000	1000	165-176	12	SK/CO	✓	2160 fathoms
		14:37	BO				53° 41.59	161° 53.989							
		14:57	BN				53° 41.458	161° 54.349							

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→ Data download from CTD via cable.

→ Data download from CTD via cable.

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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
							Latitude	Longitude							
8	NP14			BONGO		042	53°41.6362N	161°53.8142W	71000	100m			KD		station 13
	NP14			NET		043	53°41.6362	161°53.8142	71000	100 m			KD.		station 13.
8	NP14	15:43	BE	ROS020	UN	044	53°41.466	161°55.523	71000m	250m	Samples for Brianne Kelley	10	SK/RW		2160 fathoms
		15:55	BO				53°41.451	161°55.764							
		16:02	BN				53°41.362	161°55.937							
8	UN 8	22:46	BE	ROS021	UN	045	53°38.35	163°47.991	71000m	1000m	177-188	12	SK/RW	✓	740 fathoms
		23:10	BO				53°38.322	163°48.422							
		23:29	BN				53°38.245	163°48.665							
9	UN 7	00:30	BE	ROS022	UN	046	53°43.985	163°55.934	71000m	1000m	189-200		SK/RW	✓	350 fathoms
		00:59	BN				53°56.554	163°56°558					B/W		bottom contact spike at 514m.
9	UN 6	1:46	BE	ROS023	UN	047	53°48.446	164°3.722	91m	-5m	201-206	6	SK/CO	✓	bottom spike is 9db
9	UN 5	3:05	BE	ROS024	UN	048	53°53.03	164°11.64	81m	-5m	207-212	6	SK/CO	✓	bottom spike is 70db

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
 BO = bottom time of cast
 EN = end time of cast

DE = deployment time

MR = messenger release time
 RE = recover mooring time

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

Daily_log_book.doc

DAILY LOG

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	
9	UN 4	4:15	BE	ROS025	UN	049	53° 57.57	164° 20.148	110 m	100 m	213-219	7	CO	✓		
	UN 4	4:35		BONGO		050	53° 57.542	164° 20.2692	110 m	100m			KD.		station 14	
9	UN 3	5:32	BE	ROS026	UN	051	54° 2.509	164° 27.998	110m	100 m	220-226	7	CO	✓		
9	UN 2	6:31	BE	ROS027	UN	052	54° 6.874	164° 35.774	88m	bot-5	227-232	6	CO	✓		
9	UN 1	7:48	BE	ROS028	UN	053	54° 11.405	164° 43.827	69m	bot-5	233-238	6	CO	✓		
10	BCL1	7:16	BE	ROS029	UN	054	54° 34.275	166° 29.494	424m	bot-5	239-247	9	CO/SK	✓		
		7:40	BO													
		7:51	BN				54° 34.138	166° 29.831								
10	BCL1			Bongo		055			424	100m					station 15	
10	BCL2	18:02	BE	ROS030	UN	056	55° 26.206	169° 35.304	>1000m	1000m	248-259	12	CO/SK	✓		
		18:31	BO				55° 26.127	169° 35.254								
		18:54	BN				55° 26.082	169° 35.194								
10	BCL2			BONGO		057	55° 26.206	169° 35.3021	>1000	100m			KD.		station 16	

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Daily_log_book.doc

→ July 10th 21:00 data download from CTD via cable

DAILY LOG

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
10	BCL2			NET		058	55° 26.206'	169° 35.3021	>1000	100m			ICD		station 16
11	BS1	4:47	BE	ROS031	US	059	56° 18.680	172° 49.520	1715m	1000m	260	12	SK/RW	✓	only samples for IOS at bot (sal)
		5:11	BO				56° 18.657	172° 49.565							
		5:39	BN				56° 18.689	172° 49.582							
11	BS1			Bongo		060									
11	BS2	6:53	BE	ROS032	US	061	56° 25.025	172° 47.873	1356m	1000m	261	2	SK/RW	✓	only a bottom salinity for IOS.
		7:12	BO				56° 24.997	172° 47.905							
		7:30	BN				56° 24.991	172° 47.990							
11	BS3	8:16	BE	ROS033	US	062	56° 28.502	172° 46.900	800m	750m	262		SK/RW	✓	bad bottom depth
		8:55	BN				56° 28.418	172° 46.932							
11	BS4	9:34	BE	ROS034	US	063	56° 32.659	172° 45.510	248m	235m	263	2	SK/RW	✓	1 sal sample at the bottom
		9:46	BN				56° 32.582	172° 45.586							
11	BS5	10:27	BE	ROS035	US	064	56° 38.711	172° 43.821	133m	128m	264-273	12	CO/SK	✓	
			BN				56° 38.641	172° 43.799							

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Daily_log_book.doc

Salinity at 1000m. The rest of the samples for Peter Lee and Brianne Kelly

↙ For station BS1 and on 36 second wait before firing bottles (US)

waiting 4 min at 5m for sensors to settle.

DAILY LOG

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
11	BSS			Bongo		065									
11	BSSb	19:56	BO	ROS036	US	066	57° 59.973	173 06.991	113	bot-10	274	12	SK/R	✓	
		20:11	BN				57 59.962	173 07.01							
				Bongo		067									
12	BS6	04:29	BO	ROS037	US	068	59 19.248	173 29.825	105	bot-10	275-286	12	RW/SK.	✓	
		4:45					59 19.282	173 29.612							
				Bongo		069									
12	BS-6B	14:11	BE	ROS038	US	070	60° 41.503	174° 15.570	91m	bot-10	287	12	CO/SK	✓	1 sample for 105 SAL
				BONGO		071									
12	Slip-1	21:40	BE	ROS039	US	072	62° 00.847	175° 03.287	80	bot-5	288	12	SK/RW.	✓	1 sal sample for 105
		21:55	BN				62 00.842	175 3.241							
12				Bongo		073									
3	Slip-2	00:41	BE	ROS040	US	074	62° 00.	175 13.	81	bot-5	289	12	SK/RW	✓	1 sal sample for 105

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Daily_log_book.doc

→ data downloaded off the CTD after BS5b at 1:00 on July 12th (files called 11th 1:00)
by mistake

→ batteries^{in CTD} changed after BS6. 13.8 volts.

→ data download off CTD

DAILY LOG

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	
13	Slip 3	5:07	BE	ROS041	US	075	62° 23.654	174° 34.139	70m	bot-5	290	12	SK/BK		1 SAL for IOS	
13	Slip 5	9:41	BE	ROS042	US	076	63° 33.872	173° 33.101	66m	bot-5	291	11	CO	✓	1 SAL for IOS	
13	Slip 4	14:31	BE	ROS043	US	077	63° 1.697	173° 27.444	70m	bot-5	292	12	CO	✓	1 SAL for IOS	
				BONGO		078									Trip at 60.3m	
14	BCS-6	1:09	BE	ROS044	US	079	64° 01.99	171° 49.77	51m	bot-5	293-301	9	SK/BK	✓	Bottles for Peter Lee and IOS	
				Bongo		080									Trip at 41.6m	
14	BCS-6	1:59	BE	ROS045	US	081	64° 01.986	171° 49.897	53m	36m					Bottles for Brianna	
14	UT-BS1	8:20	BE	ROS046	US	082	64° 40.018	169° 55.42	48m	bot-5	302	9	CO	✓	1 SAL for IOS	
				Bongo		083									Trip at 37m	
14	UT-BS2	12:10	BE	ROS047	US	084	64° 40.934	169° 5.699	46m	bot-5	303	9	CO	✓	1 SAL for IOS	
															Trip at 34.5	
14	UT-BS4	15:57	BE	ROS048	US	085	64° 57.553	169° 52.974	49m	bot-5	304	9	CO	✓	1 SAL for IOS	
															Trip: 38.2	

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Daily_log_book.doc

part# - 90160.3

*New pump serial# 054051 2xLV

- Salinity profiles were strange. Tested pump - not working. Took pump from SBE 19.
- look as if frequency was too low and pump was turning on before it hit the water. Sal high as soon as in the water.
- minimum frequency for pump to turn on changed to 3500 as recommended by manual (was 2680)
- Casts before change of batteries required an off/on quick switch voodoo with the magnetic switch on the LTD. Only after the off/on did values appear for the sensors. After changing the batteries the off/on trick wasn't required!

DAILY LOG

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
14	UT-BS1	19:15	BE	ROS049	US	086	64 59.511	169 08.174	49	bot-5	305	10	SK/BK	✓	
14	UT-BS1			Bongo		087									
15	A4-06 mooring	01:51	BE	ROS050	UN	088	65 44.953	168 15.434	49	bot-10	306	1	SK/BK	✓	At R. Woodgate's mooring site 4min at 5m 1:48:30.
		01:54	BN				65 45.039	168 15.407							↳ No ROS sheet made 1 SAL at Bottom for 10s
15	A4-06			Bongo		089									
15	BRS-5a	3:06	BE	ROS051	UN	090	65 38.975	168 10.4629	~25	18m	307	1	SK/BK	✓	1 SAL at Bottom for 10s.
15	BRS 5	3:20	BE	ROS052	US	091	65 39.322	168 13.135	49	bot-5	308-314	8	SK/BK		
		3:39	BN				65 39.547	168 13.215							
				Bongo											
15	BRS 4b	4:17	BE	ROS053	UN	093	65 39.523	168 16.540	45m	bot-5	315	1	SK/RW	✓	SAL at Bot for 10s depth of bottle 39.8m
		4:23	BN				65 39.657	168 16.651							
15	BRS 4a	4:39	BE	ROS054	UN	094	65 39.740	168 20.263	50m	bot-5	316	7	SK/RW	✓	SAL at Bot for 10s depth of bottle: samples for B.ienne Kelly.
	↳ CTD file called BRS 4 in the header. ↳ CTD soaked for ~10min at beginning														

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Time Code

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 MR = messenger release time
 RE = recover mooring time

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

Daily_log_book.doc

- July 14th 21:30 data download off CTD via cable.

DAILY LOG

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	
15	BRS4	5:28	BE	ROS055	US	095	65 40.261	168 24.152	52	bot-5	317-326	10	SK/BK	✓	Bots for IOS/UT/Peter	
			BN				65 40.486	168 24.170							S/N/Ba	
15	BRS3a	6:11	BE	ROS056	UN	096	65 40.384	168 28.881	54	bot-5	327	1	SK/BK	✓	SAL bot for IOS	
		6:18	BN				65 40.476	168 28.926							depth: 47.7m	
15	BRS3	6:43	BE	ROS057	US	097	65 40.989	168 34.057	54	bot-5	328-337	10	SK/BK		Bots for IOS/UT/Peter	
		6:58	BN				65 41.175	168 34.072							S/N/Ba	
15	BRS2a	7:25	BE	ROS058	UN	098	65° 41.33	168° 38.73	52m	bot-5	338	1	CO/TF	✓	SAL for IOS	
															pressure: 45.86 db	
15	BRS2	7:55	BE	ROS059	US	099	65° 41.90	168° 42.94	52m	bot-5	339-347	9	CO/TF	✓	S/N/Ba	
15	BRS1b	8:37	BE	ROS060	UN	100	65° 42.26	168° 46.79	53m	bot-5	348	1	CO/TF	✓	1 SAL for IOS	
															pressure: 46.29 db	
15	BRS1a	9:02	BE	ROS061	UN	101	65° 42.52	168° 50.28	52m	bot-5	349	1	CO/TF	✓	1 SAL for IOS	
															pressure: 45.15 db	
15	BRS1	9:29	BE	ROS062	US	102	65° 42.98	168° 54.22	49m	bot-5	350-358	9	CO/TF	✓	S/N/Ba	
				BONG6		103										

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Daily_log_book.doc

DAILY LOG

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	
15	BRS-0	10:21	BE	ROS063	UN	104	65° 43.37	168° 57.45	42m	bot-5	359	1	CO/TF	✓	1 SAL 105 pressure: 34.10 db	
15	A2 mooring	13:22	BE	ROS064	US	105	65° 46.93	168° 34.39	55m	bot-5	360	1	CO/TF	✓	1 SAL 105 49.47 m 1 bottle R.W. 49.83 db	
				BONGO		106										
16	A3 mooring	01:30	BE	ROS065	US	107	66° 19.536	168° 57.683	57m	bot-5	361	1	SK/BK	✓	1 SAL for 105 bottles for Peter lee.	
		01:46	BN				66° 19.549	168° 57.546								
16	A3			Bongo		108										
16	A3-2	2:47	BE	ROS066	UN	109	66° 21.398	168° 48.285	57m	bot-5	—		SK/BK	✓		
		2:54	BN				66° 21.400	168° 48.265								
16	A3-2a	3:20	BE	ROS067	UN	110	66° 22.142	168° 44.150	49m	bot-5	362	1	SK/BK	✓	1 SAL for 105 at bottom.	
		3:26	BN				66° 22.128	168° 44.119								
16	A3-3	3:49	BE	ROS068	UN	111	66° 23.006	168° 39.548	58m	bot-5	—		SK/BK	✓		
		3:54	BN				66° 23.011	168° 39.457								

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Daily_log_book.doc

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→ July 15th 2200 - data download off CTD via cable.

DAILY LOG

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	
16	A3-4	4:29	BE	ROS069	UN	112	66° 24.452	168 30.134	56	bot-5	363	1	SK/BK			
			BN				66° 24.483	168 30.072								
16	A3-5	5:16	BE	ROS070	UN	113	66° 26.131	168 18.654	48m	bot-5	364	1	SK/BK	✓	1 Bot SAL for 105.	
			BN				66° 26.104	168 18.727								
16	A3-6	06:04	BE	ROS071	UN	114	66° 28.150	168° 06.187	29m	bot-5	—	1	SK/BK	✓		
		06:09	BN				66° 28.141	168° 06.117								
16	A3-7	06:48	BE	ROS072	UN	115	66° 29.719	167° 56.822	24m	bot-5	365	1	SK/BK	✓	1 SAL Bot for 105 at bottom	
		06:51	BN				66° 29.722	167° 56.558								
16	A3-8	7:35	BE	ROS073	UN	116	66° 31.798	167° 42.740	27m	bot-5	—	0	CO/TF	✓		
		7:42	BO				66° 31.769	167° 42.473								
16	A3-9	8:35	BE	ROS074	UN	117	66° 34.683	167° 25.313	31m	bot-5	366	1	CO/TF	✓	24.04 db 1 SAL 105	
		8:42	BO				66° 34.690	167° 24.962								

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Daily_log_book.doc

DAILY LOG

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	
16	A3-10	9:31	BE	ROS075	UN	118	66° 37.432	167° 9.294	35 m	bot-5	—	0	CO/TF	✓		
		9:39	BO				66° 37.438	167° 9.122								
16	A3-11	10:32	BE	ROS076	UN	119	66° 39.969	166° 51.356	36 m	bot-5	367	1	CO/TF	✓	1 SAL 10S 28.29 db	
		10:39	BO				66° 40.035	166° 51.195								
				BONGO		120										
16	VTN-1	14:21	BE	ROS077	US	121	66° 42.514	168° 23.934	36 m	bot-5	368	7	CO/TF	✓	1 SAL 10S	
				BONGO		122										
16	VTN-2	19:54	BE	ROS078	US	123	67° 3.077	168° 43.901	47 m	bot-5	369	9	CO/TF	✓	1 SAL 10S	
		20:08	BO				67° 3.093	168° 43.84					SK/BK			
16	VTN-3	22:20	BE	ROS079	US	124	67° 20.045	168° 57.583	50 m	bot-5	370	10	SK/BK	✓	1 SAL for 10S	
		22:35	BN				67° 20.110	168 59.492								
17	VTN-4	01:15	BE	ROS080	US	125	67° 30.109	168° 54.582	50 m	bot-5	371	10	SK/BK		1 SAL for 10S	
		1:29	BN				67 30.128	168° 54.557								
				Bongo		126										

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Daily_log_book.doc

at 18:34

Rosette went in the water at 5m[?] but winch break started to slip and it was brought back on board. Jake and Martin work on it. Winch tested → Winch O.K. CTD at 19:55

→ Downloaded data from SB via cable July 17th 2:00

DAILY LOG

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
							Latitude	Longitude							
17	UTN-5	3:45	BE	ROS081	US	127	67 40.239	168 57.377	51	bot-5	372	10	SK/RW	✓	1 SAL for 105.
		4:00	BN				67 40.262	168 57.329							
17	UTN-6	6:10	BE	ROS082	US	128	67 44.153	168 26.430	50	bot-5	373	10	SK/RW	✓	1 SAL for 105.
17	UTN-6	6:30	BE	ROS083	US	129	67 44.183	168 26.070	50	15m		10		✓	See notes
17	UTN-6	6:59	BE	ROS084	US	130	67 44.183	168 25.828	50	bot-5	373	10	SK/RW	✓	bottles 8 & 10 didn't fire 1 SAL 105
		7:16	EN				67° 44.185	168° 25.639							
17	UTN-6	7:25	BE	ROS085	US	131	67° 44.178	168° 25.577	50	15m	—	10	CO/SK		bottles 1-7 & 9 were verified but already had samples
17	UTN-7	11:08	BE	ROS086	US	132	67° 59.953	168° 55.999	58m	bot-5	374	11	CO/TR	✓	1 SAL 105 fired extra bottle.
		11:27	EN				68° 0.0230	168° 56.166							
				BONGO		133									
17	PH-1	13:21	BE	ROS087	US	134	68° 2.622	168° 39.636	60m	bot-5	375	1	CO/TR	✓	1 SAL 105 SS. 8006
		13:28	BO				68° 2.625	168° 39.630							
		13:30	EN				68° 2.623	168° 39.645							

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- ROS082 - Seascave crashed/froze on the upcast at 15m when the 15m (Niskin 8) bottle fired. Rosette was redeployed with water still in bottles...
ROS082 and ROS083 had valves that were open $\rightarrow$ Recast.

$\rightarrow$ CTD redeployed with closed/full bottles from ROS084 to get water for ^{buts} ~8, 10.

$\rightarrow$ USE CTD DATA FROM ROS084 FOR UTN-06.

DAILY LOG

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
							Latitude	Longitude							
17	PH-2	14:22	BE	ROS088	US	135	68° 5.235	168° 21.675	57m	bot-5	—	8	CO/TF	✓	Bottles for Brianne
		14:41	EN				68° 5.357	168° 21.874							
17	PH-3	15:39	BE	ROS089	US	136	68° 7.870	168° 5.887	54m	bot-5	376	1	CO/TF	✓	SAL for 105 44.16db
		15:48	EN				68° 7.895	168° 5.912							
17	PH-4	16:43	BE	ROS090	UN	137	68° 10.436	167° 49.079	54m	bot-5	—	0	CO/TF	✓	program wouldn't see ctd, restarted program
		16:52	EN				68° 10.447	167° 49.048							
				BONGO		138									
17	PH-5	18:07	BE	ROS091	US	139	68° 13.020	167° 52.345	49m	bot-5	377	1	CO/TF	✓	1 SAL 105 43.17db
		18:16	EN				68° 13.041	167° 32.399							
17	PH-6	19:16	BE	ROS092	UN	140	68° 15.652	167° 15.458	46m	bot-5	—	—	SK/RW	✓	
17	PH-7	20:10	BE	ROS093	UN	141	68° 17.637	166° 59.669	37	bot-5	378	1	SK/RW	✓	1 SAL for 105
		20:18	BN				68° 17.671	166° 59.776							

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17	PH-8	20:39	BE	ROS094	DN	142	68° 18.28	166° 55.963	34m	bot-5	—	—	SK/BK	✓	28.8m is bottom
				Bongo		143									
18	CPL-0	02:28	BE	ROS095	UN	144	68° 53.122	166° 15.532	16m	bot-4	—	—	SK/BK	✓	
				Bongo		145									
18	CPL-1	03:03	BE	ROS096	UN	146	68° 54.175	166° 20.077	26m	bot-5	—	—	SK/BK	✓	
18	CPL-2	3:36	BE	ROS097	UN	147	68° 55.905	166° 26.179	35m	bot-5	379	1	SK/BK	✓	
		3:43					68° 55.986	166° 26.272							
18	CPL-3	4:20	BE	ROS098	UN	148	68° 58.864	166° 37.872	40m	bot-5	—	—	SK/BK	✓	
				Bongo		149									
18	CPL-4	5:16	BE	ROS099	UN	150	69° 01.494	166° 51.498	45m	bot-5m	380	1	SK/BK	✓	bot + 36m SAL for 105
		5:24					69° 01.603	166° 51.231							
18	CPL-5	6:37	BE	ROS100	UN	151	69° 05.997	167° 12.081	49m	bot-5	—	—	SK/BK	✓	

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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	
18	CPL-6	8:10	BE	ROS101	US	152	69° 13.010	167° 41.946	52m	bot-5	381	1	CO/TF	✓	SAL 105 44.16.16	
				BON60		153										
18	M03-04	21:54	BE	ROS102	US	154	69° 50.129	168° 48.678	48m	bot-5	382	8	SK/RW	✓	SAL 105	
		22:10	BO				69° 50.291	168° 48.141								
19	M05-04	3:37	BE	ROS103	US	155	70° 37.970	168° 14.393	45m	bot-5	383	7	CO/TF	✓	1 SAL 105 37.07db, 8 bottle's samples	
		3:50	EN				76° 37.945	168° 14.078								
				BON60		156										
19	CCC-06	18:42	BE	ROS104	US	157	76° 37.894	167° 12.583	53m	bot-5	384	10	CO/TF	✓	1 SAL 105 11.14.15	
		18:59	EN				76° 38.020	167° 12.601								
20	M04-04	5:13	BE	ROS105	UN	158	70° 37.831	166° 45.304	49	bot-5	385	1	SK/BK	✓	1 SAL 105	
			EN				70 37.829	166° 45.446								
21	NCKS1	5:	BE	ROS106	UN	159	70° 30	162 25,	31	bot-5			SK/RW	✓	+2 bottles 27.17db near CKS1 -too much ice to reach CKS1	

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- July 18th 19.45 download data from CTD via cable.

✓ Thermo Salinograph turned off at this station to avoid pushing the stick into the path of the CTD

- only stick close to the ship on the surface at NCRSI

Rosette far enough out from the ship to avoid it.

- Significant prop wash

- "

