

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2015-22
Book 3

DATE:

From: 6 July 2015

to:

VESSEL:

Salacia

PROJECT(S):

Strait of Georgia

Water Properties Group
Fisheries and Oceans Canada
Institute of Ocean Sciences
Ocean Sciences Division
North Saanich, BC, Canada

WaterProperties.ca

Captain: John Plant
 Second Officer: Thomas Plant
 Fishing Master: _____
 First Officer: Piper Harris
 Third Officer: _____

Mission Participants / Agencies:

Scientific Personnel:

Second leg of Mission:

Chief Scientist:

Data logging computer:

Notebook # 13

Data acquisition program:

SEA-SAIL

CTD deck unit make: N/A model: serial number:

Primary CTD

Make: 86e model: 25 serial number: 6452

Primary temperature serial number: 5130

Primary conductivity serial number: 3560

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer:

Model:

s/n:

Fluorometer: Model 50 (wet lab) Cable gain: 13 s/n: 2214 P, S or NO pump? P

Oxygen sensor: 88E Model: 43 s/n: 1592 P S or NO pump? P

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

Other sensors: Pressure, SRE 29 s/n: 0668 P, S or NO pump?

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

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

Other sensors:	s/n:	P, S or NO pump?
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CTD calibration bottle location (height above CTD in metres):

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Month <u>July</u>			Year <u>2015</u>			Ship <u>Salacia</u>			Cruise ID <u>2015-22</u>						
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
6	59	10:17	BE	CTD		170	48 37.716	123 14.618	232		—		KJ		on water, 0800
		10:20	BO				48 37.557	123 14.625		222					GPS from handheld radio
		10:25	EN												cast 15
6	59	10:32	BE	NET		171	48 37.879	123 14.548							returned to station
		10:41	BO				48 37.635	123 14.534		222					for net
		10:45	EN				48 37.556	123 14.512							CRCA's (3)
6	46	12:40	BE	CTD		172	48 51.383	123 10.788	180						cast 16
		12:46	BO				48 51.333	123 10.759		170					2015-22-172 hex
		12:48	EN				51.314	10.722							
6	46	12:51	BE	CTD		173	48 51.290	123 10.703	183						
		12:57	BO				51.243	10.623		170					
		13:03	EN				51.172	10.543							
6	41	14:30	BE	CTD		174	49 32.95	123 22.623	246						cast 17
		14:37	BO				49 32.244	123 22.528		235					2015-22-174 hex
		14:41	EN				49 32.214	123 22.423							

Cast Type:

BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set

USW = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter

Bottle Firing Method:

US = Up / Stop
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Time Code:

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Transmissometer & Fluorometer are to be cleaned before each cast

Produced by the Water Properties Group, IOS

WaterProperties.ca
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Notes:

SMOKEY - S. Island covered in high alt heavy smoke from BC forest fires.

2018-07-20

CTD start-up: same as previous trips - Turn on + start 2 min timer. Send down 10m + back to surface. Wait at surface for end of 2 min, then start cast to 10m off bottom.

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Month <u>July</u>				Year <u>2015</u>			Ship <u>Salacia</u>				Cruise ID <u>2015-22</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
6	41	14:45	MR	BOT	MR	175	49 3.201	123 22.511	-		54-55	2			54 5m - 2m 55 10m - 15m 140m - 150m
	41	14:48	BE	NET		176	3.160	22.632	1						
		14:56	BO				3.075	22.632		235					5m - 10m - 15m through the smoke
		15:00	EN				-	-							
6	38	16:03	BE	CTD		177	49 12.042	123 26.350	2300		56	1			2015-22-174 hex
		16:13	BO				12.147	26.177		220					16:13 - 16:15 16:15 - 16:22
		16:22	EN				12.253	26.095							
	38	16:13		bucket		178	49 12.145	123 26.183			57				4000 - 4100 surface bucket
	38	16:23	BO	NET		179	49 12.280	123 26.085	2300						
		16:33	BO				49 12.347	123 25.901		220					
		16:37	EN				49 12.386	123 25.867							
6	40	17:35	BE	CTD		180	49 8.605	123 36.807	135						442 f2
		17:40	BO				8.680	36.827		130					2015-22-180 hex
		17:42	EN				8.697	36.777							
6	40	17:44	BE	NET		181	49 8.745	123 36.832	135						
		17:48	BO				8.805	36.837		130					
		17:51	EN				8.832	36.800							

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Notes:

Sh. Survey

6:40m
Niskin ~~Str~~ above CTD for deep SAL. Added to wire AFTER 2 min soak.

Arrived Survey at 6:30pm

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Month <u>July</u>				Year <u>2015</u>			Ship <u>Salacia</u>				Cruise ID <u>2015 22</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
7	GEO1	07:04	62	219		182	49 15.080	123 44.912	1400		58	1			2015-22-120 haul
		07:15	62		MR		49 15.132	123 44.926		30					2 min to trigger
		07:28	62				49 15.200	123 44.930							
		07:30	60	BOT	MR	183	49 15.248	123 44.934		5	59-60	2			59 = 5m chla 60 = 10m chla + 140m 140m filtered
		07:34	62			184	49 15.258	123 44.934							
		07:42	60							20					
		07:50	60												
7	28	08:00		BOT	MR	185	49 20.398	123 43.646		0	61	1			5m chla for depth
7	28	09:04	60	CCT		186	49 24.118	123 45.997	125						2015-22-186 haul
		09:09	60				49 24.131	123 45.997		125					
		09:11	60				49 24.133	123 45.997							
		09:14	60			187	49 24.240	123 45.997	133						
		09:20	60				49 24.299	123 45.997		125					
		09:22	60				49 24.294	123 45.997							

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left Silva Bay 06:30am

6-
killed 27m above TL added 2 more K-2 2 more coats

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							Latitude	Longitude							
7	CFF1	11:48	BE	CTD		188	49 22.025	124 00.021	2245		-		Ky		2015-22-188.hex
		11:55	BD				49 22.021	124 00.021		235					
		11:59	LP				49 22.025	124 00.042							
	CFF1	11:01	BE	CTD		189	49 22.028	124 00.025							
		11:02	BE				49 22.028	124 00.025		235					
		11:03	BE				49 22.028	124 00.025							
7	CFF2	13:00	BE	CTD		190	49 22.038	124 00.025	1325						2015-22-190.hex
			BD				49 22.038	124 00.025		315					
		13:25	LP				49 22.038	124 00.025							
		13:00	BE	CTD		191	49 22.038	124 00.025							
		13:00	BD				49 22.038	124 00.025		315					
		13:00	BE	CTD		192	49 22.038	124 00.025							
7	BG11	15:01	BE	CTD		193	49 28.900	124 00.021	59						2015-22-192.hex
		15:04	BE				49 28.900	124 00.021		59					
		15:05	LP				49 28.900	124 00.021							
		15:06	BE	CTD		193	49 28.900	124 00.021							
		15:08	BD				49 28.900	124 00.021		59					
		15:09	BE				49 28.900	124 00.021							

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This page is for any notes or observations

✓ 2005-05-10 10:00 AM
done 6:30 AM

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Month <u>July</u>				Year <u>2015</u>			Ship <u>Salacia</u>				Cruise ID <u>2015-22</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
8	11	08:04	BE	CTD		194	49 42.410	124 43.381	2290						62 = 5 m above
		08:12	BO				49 42.394	124 43.380		280					62 = 5 m above
		08:12	EN				49 42.388	124 43.380							140 m
	11	08:20	BE	BOT	MR	195	49 42.392	124 43.343		5	63	2			2015-22-194
		08:23	BS			(196)	49 42.388	124 43.380							
		08:31	BO				49 42.382	124 43.380		580					
		08:32	EN				49 42.382	124 43.380							
						197									
8	22	11:42	BE	CTD		196	49 42.382	124 43.380	700						* please attached
		11:52	BO		MR		49 42.382	124 43.380		64	1				1m above CTD
		11:56	EN				49 42.382	124 43.380							attached d
						198									2015-22-196
8	22	12:01	BE	NET		195	49 42.382	124 43.380							
		12:22	BO				49 42.382	124 43.380							
		12:29	EN				49 42.382	124 43.380							
						199									
3	24	14:06	BE	CTD		198	49 30.328	124 6.002	8125						2015-22-198
		14:17	BO				49 30.358	124 6.002		415					
		14	EN				49 30.358	124 6.002							

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→ different. Attached Niskin 1m above CTD BEFORE turning CTD on.

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Month <u>July</u>				Year <u>2015</u>			Ship <u>Salacia</u>			Cruise ID <u>2015-22</u>					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
	24	14:26	66	NET		200	49 30.378	124 6.118	2425						
		14:39	60				49 30.443	124 6.160		415					
		14:48					49 30.463	124 6.189							
8	24	14:57		Bucket		201	49 30.198	124 6.231	415	65					Sample 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
9	69-01	18:22	66	CTD		202	48 45.249	123 20.591	66	56					1705 02.202.1
		2:05	60				48 45.24	123 20.592							
		2:06	60												
		11:58	66	NET		203	48 45.916	123 20.569	66	56					
		12:00	60				48 45.803	123 20.571							
		12:01	60					808	541						

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Notes:

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lan stopped at boat for dinner.

8.30 pm. On way to Gt. O. (in 4th or 5th k). One tree seen on L. bank about 1/2 way across river.

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Cruise ID 2015-22

Month <u>July</u>				Year <u>2015</u>			Ship <u>Salacia</u>		Cruise ID <u>2015-22</u>					Comments
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	
							Latitude	Longitude						
9	SC-84	13:00	BE	CTD		204	48 43.511	123 25.000	10					
		13:09	BO				48 43.527	123 24.956		86				
		13:11					48 43.527	123 24.956						surface buoys
		13:16	BE	Wicket		205	48 43.512	123 24.975		0	66			
	SC-84	13:12	BE	NET		206	48 43.527	123 24.956	94					
		13:15					48 43.560	123 24.926		86				
		13:17					560	925						
— END! 42105 —														

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 RE = Recover Mooring Time

Notes:

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