

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2019-023

DATE:

AUG 29

From:

to:

SEPT 9

VESSEL:

TULLY

PROJECT(S):

LA PEROUSE

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

WaterProperties.ca

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month			September			Year		2019		Ship			J.P. Tully		Cruise ID		2019-023	
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	NL05	17 27	BE	ROS	ROS	/	158	51 40 47	128 54 40	44		523-526	4	HR	✓	O ₂ Lab # 5158		
		17 29	BO					51 40 47	128 54 43									
		17 32	EN					51 40 47	128 54 42									
6	NL05	17 40	BE	NET	NET	/	159	51 40 49	128 54 37	44		/	/	RIP				
		17 41	BO					51 40 49	128 54 38		33							
		17 42	EN					51 40 49	128 54 39									
6	LOOP	19 45	BE	LOOP	LOOP		160	51 29 30	128 33 14	193	4.5	5160		RIP		1 NOV-F, 154L, 2 CHL		
6	SSS	20 10	BE	ROS	ROS	US	161	51 28 040	128 29 976	200		527-530	4	MB	✓			
		20 13	BO					51 28 010	128 29 970		191							
		20 19	EN					51 28 020	128 29 976									
7	SSS	20 26	BE	NET	NET	.	162	51 28.03	128 29.98	199		-	-	MG	-	Bottle		
		20 33	BO					51 28.04	128 30.03		195							
		20 36	EN					51 28.04	128 30.04									
7	SS6	23 18	BE	ROS	ROS	/	163	51 20.01	128 0.10	179		-	0	RIP	✓	CTD only		
		23 22	BO					51 20.02	128 0.13		170							
		23 25	EN					51 20.02	128 0.15									
7	SS6	23 32	BE	NET	NET	/	164	51 20.02	128.00.16	180		/	/	MG	-	Bottle BATHY, 0.11		
		23 37	BO					51 20.03	128.00.17									
		23 40	EN					51 20 03	128 00 18									

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

USW = Sea Water Loop
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DRF = Drifter

Bottle Firing Method:
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Notes:

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

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SEPTEMBER			2019			LP TULLY			2019-023						
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							Latitude	Longitude							
7	SS7	0105	BE	ROS	-	165	51 24 740	127 47 580	125		-	2	MB	✓	
		0107	BO				51 24 720	127 47 570		115					
		0110	EN				51 24 710	127 47 570							
7	SS7	0117	BE	NET	-	166	51 24 68	127 47 60	124		-	1	MG	✓	BONGO
		0122	BO				51 24 61	127 47 61		120					
		0124	EN				51 24 60	127 47 62							
7	CPE1	0443	BE	ROS	US	167	51 6 030	127 50 100	143		531	1	MB	✓	
		0446	BO				51 0 037	127 50 102		134					
		0449	EN				51 0 038	127 50 104							
7	CPE1	0454	BE	NET	-	168	51 00 06	127 50 10	141		-	1	MF	✓	BONGO
		0458	BO				51 00 08	127 50 10		135					
		05	EN				51 00 08	127 50 11							
7	ISS01	1212	BE	NET	-	169	50 29 09	126 29 50	400		-	-	MM/SK		BONGO
		1225	BO				50 29 89	126 29 49		390					
		1232	EN				50 29 90	126 29 45							
7	ISS01	1244	BE	ROS	U.S	170	50 29 92	126 29 34	400		532-542	11	MM		CTD/R
		1252	BO				50 29 91	126 29 36		395					
		1306	EN				50 29 87	126 29 34							

Transmit numbers to be cleaned before each cast. do not use ammonia products

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SEPTEMBER			2019			J P TULLY			2019-023						
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	10	2020	BE	ROS	-	171	49 57 720	125 8 730	156				MB	✓	
		2027	BO				49 57 730	125 8 730		147					
		2025	EN				49 57 730	125 8 740							
7	16	2030	BE	NET	-	172	49 57 69	125 08 74	157		-	-	MG	-	BONG
		2034	BO				49 57 68	125 08 77		150					
		2037	EN				49 57 66	125 08 80							
7	Loop	2143	BE	LOOP		173	49 54 46	125 01 40	299	4.5	5173	-	RIP		INUS-1 SAL 2 CHL
7	11	2212	BE	ROS	US	174	49 53 020	124 59 580	315		543-546	4	MB	✓	
		2217	BO				49 53 029	124 59 546		308					
7	Loop	2226	EN				49 53 054	124 59 544							
7	14	2232	BE	NET	-	175	49 53 03	124 59 57	315		-	-	MG	-	BONG
		2242	BO				49 53 01	124 59 59		310					
		2248	EN				49 53 01	124 59 61							
-8	SGN	0155	BE	ROS	-	176	49 49 980	124 51 900	336		-	-	MB	✓	
		0200	BO				49 49 970	124 51 870		328					
		0206	EN				49 49 970	124 51 850							
8	SGN	0211	BE	NET	-	177	49 49 96	124 51 84	336		-	-	MG	-	BONG
		0221	BO				49 49 94	124 51 83		330					
		0226	EN				49 49 95	124 51 83							

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							Latitude	Longitude														
8	11	0351	BE	ROS	.	178	49 42 460	124 43 460	301									-	-	MB	✓	
		0356	BO				49 42 460	124 43 440	293													
		0401	EN				49 42 460	124 43 420														
8	11	0406	BE	NET	-	179	49 42 45	124 43 42	301									-	-	MG	-	Bongo!
		0418	BO				49 42 44	124 43 44	295													
		0423	EN				49 42 45	124 43 45														
8	12	0455	BE	ROS	US	180	49 43 590	124 40 800	355									547-550	4	MB	✓	
		0500	BO				49 43 590	124 40 790	346													
		0509	EN				49 43 570	124 40 800														
8	12	0515	BE	NET	.	181	49 43 56	124 40 80	368									-	-	MG	-	Bongo/Bottom
		0528	BO				49 43 55	124 40 79	363													- Contact
		0534	EN				49 43 54	124 40 79														No Sample! Re-Do!
8	12	0552	BE	NET	-	182	49 43 52	124 40 78	354									-	-	MG	-	
		0602	BO				49 43 48	124 40 77	345													
		0608	EN				49 43 46	124 40 76														
8	22	0920	BE	NET	-	183	49 40 26	124 16 49	354									-	-	MM/N ²		Bongo
		0932	BO				49 40.24	124 16.50	344													
		0937	EN				49 40.23	124 16.50														

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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	22	0940	BE	ROS	U.S	184	49 40 23	124 16 51	352		551-562	12	H.M.	✓			
		0955	BO				49 40 24	124 16 51		344							
		1009	EN				49 40 25	124 16 47									
8	24	1140	BE	NET	-	185	49 30 32	124 06 02	424			-	MM/N ²		BotGO		
		1201	BO				49 30 28	124 05 99		414							
		1208	EN				49 30 27	124 05 99									
8	24	1220	BE	ROS	U.S	186	49 30 27	124 05 99	423		563-565	3	H.M.	✓			
		1228	BO				49 30 25	124 05 90		415							
		1238	EN				49 30 25	124 05 93									
8	CF2	1610	BE	NET	-	187	49 29 04	124 29 90	323			-	MM/IP		BotGO		
		1622	BO				49 27 99	124 29 92		313							
		1627	EN				49 27 98	124 29 93									
8	CF2	1636	BE	ROS	U.S	190	49 27 99	124 29 93	349		566-569	3	H.M.	✓			
		1642	BO				49 27 98	124 30 01		316							
		1650	EN				49 28 00	124 30 01									
8	LOOP	1712		LOOP		189	49 27 74	124 26 46	305		5189	-	RIP		1 Nut-F, 1 SAL 2 CHL		
8	CF1	1904	BE	ROS	-	190	49 22 03	124 5 09	247		570-572	3	MB	✓			
		1908	BO				22 030	5 09									
		1915	EN				22 030	5 09									

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							Latitude	Longitude								
8	CFE1	1920	BE	NET	/	191	49 22 04	124 05 09	245				/	NG	/	Bongo
		1927	BO				49 22 04	124 05 08			240					
		1932	EN				49 22 04	124 05 10								
8	28	2119	BE	ROS	US	192	49 24 09	123 45 45	135			573-576	4	RIP	/	
		2122	BO				49 24 10	123 45 45			125					
		2129	EN				49 24 10	123 45 45								
8	28	2134	BE	NET	/	193	49 24 08	123 45 43	135			/	/	NG	/	Bongo
		2138	BO				49 24 10	123 45 43			130					
		2140	EN				49 24 10	123 45 43								
8	GEO1	2258	BE	NET	/	194	49 15 02	123 45 00	402					MG/AS		MPS
		2311	BO				49 15 01	123 44 99			392					
		2319	EN				49 15 03	123 44 99								
8	GEO1	2336	BE	ROS	US	195	49 15 02	123 44 96	402			577-587	11	MB	/	
		2343	BO				49 15 03	123 45 00			395					
		2358	EN				49 15 02	123 44 98								
9	GEO1	0005	BE	NET	/	196	49 15 04	123 44 98	402			/	/	MG	/	Bongo
		0018	BO				49 15 04	123 44 94			395					
		0025	EN				49 15 06	123 44 91								

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							Latitude	Longitude							
9	38	0212	BE	ROS	US	197	49 12 030	123 26 480	307		588-550	3	MB	✓	
		0217	BO				49 12 030	123 26 490		299					
		0224	EN				49 12 030	123 26 480							
9	38	NA	BE	NET	/	198	NA	NA	307		-	-	MG	-	Bongo
		0240	BO				49 12 03	123 26 43		300					
		0245	EN				49 12 03	123 26 42							
9	38	0253	BE	NET	/	199	49 12 03	123 26 43	307		-	-	MG	-	2nd Bongo lau
		0303	BO				49 12 02	123 26 42		300					
		0308	EN				49 12 03	123 26 43							
9	41	0431	BE	ROS	-	200	49 3 390	123 21 860	222		-	-	MB	✓	
		0435	BO				49 3 400	123 21 860		212					
		0439	EN				49 3 412	123 21 862							
9	41	0445	BE	NET	-	201	49 03 42	123 21 86	221		-	-	MR	-	
		0451	BO				49 03 44	123 21 86		215					
		0454	EN				49 03 44	123 21 86							
9	41	0501	BE	NET	/	202	49 03 46	123 21 89	224		-	-	MG	-	2nd Bongo lau
		0507	BO				49 03 48	123 21 90		215					
		0510	EN				49 03 48	123 21 90							

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