

*Event numbers 385, 386, 392, 393, 394, 395, 396, and 408 had the station names edited to remove the "ROS" portion of the name

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 26 of

Month August				Year 2020			Ship JP Tully				Cruise ID: 2020-069				
Event Number	Station Name	Day	Time (UTC)	Time Code	Cast Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
348	QCSDoc4	05	5:54	BE	ROS	/	51 54.830	128 38.150	145		/	/	CH		
		05	5:58	BO			54.830	38.170	145	142					5 mab
			06:01	EN			54.830	38.180							
349	QCSDoc4	05	0642	BE	ROS	/	51 54.648	128 35.080	132		/	/	CH	✓	
			0645	BO			54 650	33.100	132	128					5 mab
			0649	EN			54,653	33.130							
350	LOOP	05	0708		LOOP		51 52.498	128 33.320	112		5350	1	CH		
351	GI08	05	0837	BE	ROS	/	51 45.840	128 16.110	137		/	/	CH		
			0841	BO			45.840	16.090	136	133					5 mab
			0843	EN			45.840	16.090							
352	GI07	05	0911	BE	ROS	/	51 44.770	128 20.170	146		/	/	CH	✓	
			0915	BO			44.770	20.150	146	142					5 mab
			0918	EN			44.760	20.140							
353	GI06	05	0946	BE	ROS	/	51 43 80	128 24.51	148		/	/	CW	✓	
			0949	BO			43.80	24.49		144					
			0951	EN			43.77	24.470							
354	GI05	05	1019	BE	ROS	/	51 42.20	128 28.39	148		/	/	CW	✓	oxygen trace is "interesting"
			10 22	BO			42.18	28.36		144					
			1025	EN			42.16	28.36							

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
 UN = Up / No stop
 DN = Down / No stop

Notes:

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 before each cast, do not use Ammonia products

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 27 of

Page 6 of 6

Month August				Year 2020			Ship JP Tully					Cruise ID: 2020-069				
Event Number	Station Name	Day	Time (UTC)	Time Code	Cast Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments	
							Latitude	Longitude								
355	G104	05	1100	BE	ROS	—	51 40.980	128 34.060	126		—	—	CW	✓	FL trace similar to G15 - O2 less messy - no trans D @ bottom	
			1103	BO			40.95	34.040		121						
			1106	EN			40.940	34.010								
356	G103	05	1128	BE	ROS	—	51 40.380	128 36.92	36		—	—	CW	✓	trans trace is clearer on the bottom.	
			1130	BO			40.35	36.89		31						
			1131	EN			40.33	36.88								
357	G102	05	1158	BE	NET		51 39.291	128 40.604	37		—	—	CW/TF			
			1159	BO			51 39.286	128 40.589		27						
			1159	EN			51 39.284	128 40.584								
358	G102	05	1211	BE	ROS	—	51 39.220	128 40.390	38		—	—	CW	✓	39m	
			1212	BO			39.210	40.380		34					41m haul	
			1214	EN			39.20	40.360								
359	G101	05	1250	BE	ROS	—	51 37.450	128 46.400	40		—	—	CH	✓		
			1253	BO			37.420	46.380	41	35						
			1255	EN			37.400	46.380								
360	COOK BANK	06		RE	MOR											
361	G511	05	2017	BE	ROS	—	51°22.944	128°12.166	146			—	CC	✓		
			2021	BO			51°22.908	128°12.128		142						
			2024	EN			51°22.916	128°12.115								

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
 UN = Up / No stop
 DN = Down / No stop

Notes: _____

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 before each cast, do not use Ammonia products

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 28 of

Month August				Year 2020			Ship JP Tully				Cruise ID: 2020-069				
Event Number	Station Name	Day	Time (UTC)	Time Code	Cast Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
362	CPEI	05	2322	EN	NET		51°00.000	127°50.112	149		—	—			
363	CPEI	05	2328	BE	ROS	—	51°00.000	127°50.110	149		—	—	L.M	✓	
			2334	BO			50°59.990	127°50.090		143					
			2338	EN			50°59.970	127°50.070							
364	QCS4	06	0215	BE	ROS	—	50 46.760	127 24.290	407		—	—	CH	✓	
			0223	BO			46.730	24.290	422	419					6 mab
			0231	EN			46.720	24.270							
365	QCS3	06	0332	BE	ROS	—	50 43.760	127 15.080	212		—	—	CH	✓	
			0337	BO			43.770	15.110	212	210					5 mab
			0341	EN			43.790	15.120							
366	QCS6	06	0507	BE	ROS	—	50 42.040	126 57.020	198		—	—	CW	✓	
			0511	BO			42.040	57.030	198	195					5 mab
			0515	EN			42.040	57.030							
367	LOOP	06	0520	BE	LOOP	—	50 41.967	126 56.932	198	—	5367		TF		5367 Loop 2 XCHL, 1 X SAL
368	QSC1	06	0615	BE	ROS	—	50 40.109	126 46.367	158		—		CW	✓	
			0619	BO			40.130	46.342	157	154					5 mab
			0622	EN			40.140	46.318							

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

Loop
 USW = Sea Water Loop
 MOR = Mooring
 NET = Plankton Net Haul
 DRF = Drifter
 — =

Bottle Firing Method:
 US = Up / Stop
 UN = Up / No stop
 DN = Down / No stop

Notes: _____

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 before each cast, do not use Ammonia products

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 29 of

Month August				Year 2020			Ship JP Tully					Cruise ID: 2020-069				
Event Number	Station Name	Day	Time (UTC)	Time Code	Cast Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments	
							Latitude	Longitude								
369	CPEI	07	01'00	BE	ROS	—	50 59.950	127 49.990	152		—	—	SP	✓		
			0103	BO			59.950	50.000		147						
			0105	EN			59.960	50.000								
370	CC7	07	0232	BE	ROS	—	51 10.434	128 0.530	101		—	—	CH	✓	Swell Can't	
			0236	BO			10.428	0.586	101	97					start at 1m.	
			0238	EN			10.429	0.624								
371	CC6	07	0309	BE	ROS	/	51 10.595	127 57.227	132		—	—	CH	✓		
			0313	BO			10.597	57.226	132	128					5mab	
			0316	EN			10.558	57.296						✗	forget to stop archiving	
372	CC5	07	0348	BE	ROS	/	51 10.606	127 54.157	121		—	—	CH	✓	+ stop pump.	
			0352	BO			10.602	54.180	120	116					5mab	
			0355	EN			10.606	54.194								
373	CC4	07	0426	BE	ROS	/	51 10.550	127 51.150	104		—	—	CH			
			0430	BO			10.530	51.150	105	100					5mab.	
			0433	EN			10.520	51.180								
374	CC3	07	0514	BE	ROS	/	51 10.530	127 49.960	93		—	—	CH	✓	lost connection	
			0514	BO			10.540	49.960	93	89					part way	
				EN											through cast	
															→	

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
 UN = Up / No stop
 DN = Down / No stop

Notes:

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 before each cast, do not use Ammonia products

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

Station	surface sal	depth d 30 psu	bottom sal	stid depth
CC7	29	~5	~33	100m
CC6				
CC5				

EVENT 374 - returned to surface.
 turned deck unit off.
 shutdown Seasave
 restarted.
 overwrote hex file.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 30 of

Month August				Year 2020			Ship JP Tully				Cruise ID: 2020-069				
Event Number	Station Name	Day	Time (UTC)	Time Code	Cast Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
375	CC2	07	0552	BE	ROS	/	51 10.580	127 49.050	70		/	/	CH	/	
			0555	BO			10.570	49.050	72	66					
			0557	EN			10.580	49.050							
376	CC1	07	0617	BE	ROS	/	51 10.577	127 48.131	33		/	/	CH	✓	
			0619	BO			10.583	48.138	33	27					5wab
			0621	EN			10.589	48.148							
377	LOOP	07	0627	BE	LOOP	—	51 10.558	127 48.253	33	—	5377		CW/FT		
378	JS1	08	0138	BE	ROS	/	50°33.040	126°46.090	456		—	/	L,M	✓	
			0147	BO			33.070	46.050		456					
			0154	EN			33.100	45.990							
379	JS05	08	0353	BE	ROS	—	50 29.960	126 22.50	365		—	—	CW	✓	
			0400	BO			29.990	22.570	362	361			CW		5mal
			0407	EN			30.040	22.580							
380	5380	08	0641	BE	LOOP	—	50.23.998	125.56.047	1		*5380*	—	CW/TF		JS8.5 was cancelled due to current 12che + 1x sal
381	CHP1	08	0854	BE	ROS	—	50 20.760	125 25.960	308		—	—	CW		1.5kt current
			0900	BO			20.760	25.960	308	322					5mal altimeter
			0906	EN		—	20.750	25.90	308						
										</					

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
 UN = Up / No stop
 DN = Down / No stop

Notes:

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 before each cast, do not use Ammonia products

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 31 of

Month August				Year 2020			Ship JP Tully				Cruise ID: 2020-069				
Event Number	Station Name	Day	Time (UTC)	Time Code	Cast Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
382	116	8	1156	BE	ROS	US	49 57.601	125 08.899	150		1230-1240	11	CW	✓	
			1159	BO			57.596	08.902	150	146					Small
			1213	EN			57.60	08.910							
383	04-39 116	8	1338	BE	NET	—	50 49 01.839	125 05.553	269 274						
			1346	BO			01.870	05.581		250	—	—	CW/CH		bongo. VNH
384	116	8	1350	EN			01.889	05.601							
384	04-39 116	8	1403	BE	ROS	US	50 1.922	125 5.647	269		—	—	SP	✓	
			1408	BO			1.931	5.651		265					
			1412	EN			1.932	5.656							
385	ROS 14	8		BE	NET										
				BO											
				EN											
386	ROS 14	8	1557	BE	ROS	US	49° 53.060	124° 59.720	313			15	CC	✓	
			1602	BO			53.110	59.750		311					
			1619	EN			53.140	59.700							
387	SOG-N	08	1725		GRAB		49 50.219	124 52.311	336		—		DS		
388	SOG-N	08	1740	BE	ROS	US	49 49.934	124 52.218	336				SB	✓	
			1747	BO			49.915	52.232		333	1256-1271				
			1805	EN			49.890	52.231							

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
 UN = Up / No stop
 DN = Down / No stop

Notes:

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 before each cast, do not use Ammonia products

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 32 of

Month August				Year 2020			Ship JP Tully				Cruise ID: 2020-069				
Event Number	Station Name	Day	Time (UTC)	Time Code	Cast Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
389	506N	8	1839	DE	MOR		49° 49.915	124° 52.204	336						
390	North Ajax	08	1955	BE	ROS	—	49° 43.990	124° 46.550	269		—	—	L.M	✓	
			2001	BO			44.000	46.540		267					
			2006	EN			44.010	46.540							
391	North Ajax	08	2047	DE	MOR		49° 49.912	124° 46.510	266		—	—			
392	ROS	12 08	2234	EN	NET		49° 43.490	124° 40.977	349						
393	ROS	12 08	2246	BE	ROS	US	49° 43.580	124° 40.950	350		1272-1287	16	L.M	✓	
			2255	BO			43.560	40.980		348					
			2314	EN			43.540	41.060							
394	ROS	9 09	0056	BE	ROS	US	49° 35.540	124° 38.310	167		1288-1298	11	L.M		
			0059	BO			35.550	38.320		162					
			0109	EN			35.550	38.340							
395	ROS	9 09	0115	BO	GRAB		49° 35.55	124° 38.340	167						
396	ROS	6 09	0226	BE	ROS	US	49 30.740	124 27.830	192		1299-1309	11	CH	✓	Not sure when bottle 5 tripped.
			0232	BO			30.740	27.830	192	188					
			0248	EN			30.740	27.770							Must have tripped at 50m and 6.
397	CPF2	09	0326	BE	NET	—	49 28.125	124 29.889	320		—	—	CW/CH		50m and 6.
			0335	BO			28.195	29.819		310					
			0340	EN			28.234	29.716							

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
UN = Up / No stop
DN = Down / No stop

Notes:

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 before each cast, do not use Ammonia products

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 33 of

Month August				Year 2020			Ship JP Tully				Cruise ID: 2020-069					
Event Number	Station Name	Day	Time (UTC)	Time Code	Cast Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned		Comments
							Latitude	Longitude								
398	3	09	0442	BE	ROS	US	49 26.590	124 20.210	322		1310-1324	15	CH	✓		
			0445	BO			26.600	20.210	322	318						
			0511	EN	P		26.580	20.210								
399	2	09	0610	BE	ROS	US	49 24.120	124 09.310	277		1325-1339	15	CW	✓		
			0616	BO			24.110	9.310	277	273.5						
			0634	EN			24.07	9.33								
400	24	09	0731	BE	NET		49 30.223	124 05.905	423		—		CW/CH			bongo UNH
			0743	BO			30.193	05.880		410						
			0750	EN			30.198	05.893								
401	24	09	0801	BE	ROS	—	49 30.215	124 5.921	423		—	—	CH	✓		
			0810	BO			30.211	5.934		421						5 mab
			0818	EN			30.212	5.948								
402	CPI	09	0918	BE	NET	—	49 21.908	124 04.814	239			—	CW/CH			bongo UNH
			0925	BO			21.905	04.797			230					
			0929	EN			21.920	04.809								
403	CPI		0939	BE	ROS	—	49 21.970	124 04.900	243		—	—	CH	✓		
			0945	BO			21.980	04.910	243	240						5 mab
			0950	EN			21.970	04.900								

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
 UN = Up / No stop
 DN = Down / No stop

Notes: _____

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 before each cast, do not use Ammonia products

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 16 April 2010

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 34 of

Month August				Year 2020			Ship JP Tully				Cruise ID: 2020-069				
Event Number	Station Name	Day	Time (UTC)	Time Code	Cast Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
404	5404	09	1006		Loop	—	49 21.483	124 02.136	—		5404		CW		last of the loops
405	27	09	1108	BE	ROS	US	49 19.006	123 47.984	347		1340-1355	16	CH	✓	
			1116	BO			19.000	47.990	347	344					6 mab
	GE01	09	1138	EN			19.036	48.066							
406	27		1225	BE	NET		49 14.967	123 44.860	398						
			1237	BO			49 14.995	123 44.872		390					
			1244	EN			49 15.008	123 44.886			1356-1372	17	CH	✓	
407	GE01	09	1343	BE	ROS	US	49 15.000	123 44.890	399		1356-1372	17	CH	✓	
			1351	BO			14.989	44.879	399	397					4 mab
			1414	EN			14.982	44.900							
408	ROS39	09	1521	BE	ROS	US	49°09.700	123°33.120	377		1373-1388	16	L.M	✓	
			1529	BO			09.720	33.090		374					
			1548	EN			09.780	33.090							
409	GSC	09	1652	BE	ROS	—	49°11.550	123°20.770	189		—		DS	.	
			1658	BO			11.540	123°20.780		185					
			1702	EN			11.570	123°20.790							
410	GSC	09	1704	EN	MOR	—	49°11.568	123°20.788	189		—	—			189 m
411	GSS	09	1831	EN	MOR	—	48°58.862	123°24.302	242		—	—			242 m

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
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 before each cast, do not use Ammonia products

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 16 April 2010

Notes:

Ocean Sciences Division, Institute of Ocean Sciences

[illegible]

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
 UN = Up / No stop
 DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast	DE = Deployment Time
BO = Bottom Time of Cast	MR = Messenger Release Time
EN = End Time of Cast	RE = Recover Mooring Time

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

