

# DAILY SCIENCE LOG

## Ocean Sciences Division, Institute of Ocean Sciences

Month <u>SEPTEMBER</u>			Year <u>2018</u>			Vessel <u>TULLY</u>			Cruise ID <u>2018-34</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
133	CS06	8	15:29	BE	ROS	U.S	51°00.07	128°51.64	62		373-379	7	HM+	<input type="checkbox"/> <input checked="" type="checkbox"/>	
			15:30	BO			51°00.08	128°51.62		54	-			<input type="checkbox"/> <input type="checkbox"/>	
			15:36	EN			51°00.10	128°51.59			-			<input type="checkbox"/> <input type="checkbox"/>	
134	CS06	8	15:40	BE	Net		51°00.11	128°51.62	62		-		AT+	<input type="checkbox"/> <input type="checkbox"/>	BONGO
			15:42	BO			51°00.11	128°51.62		53	-			<input type="checkbox"/> <input type="checkbox"/>	
			15:43	EN			51°00.12	128°51.61			-			<input type="checkbox"/> <input type="checkbox"/>	
135	CS07	8	16:28	BE	ROS	/	51°04.53	128°43.95	63		-	-	HM+	<input type="checkbox"/> <input checked="" type="checkbox"/>	CTD ONLY
			16:29	BO			51°04.54	128°43.94		54	-			<input type="checkbox"/> <input type="checkbox"/>	FL = 3.51
			16:31	EN			51°04.55	128°43.91			-			<input type="checkbox"/> <input type="checkbox"/>	
136	CS07	8	16:37	BE	NET		51°04.54	128°43.79	63		/	/	AT+	<input type="checkbox"/> <input type="checkbox"/>	BONGO
			16:39	BO			51°04.53	128°43.73		53	-			<input type="checkbox"/> <input type="checkbox"/>	
			16:40	EN			51°04.53	128°43.71			-			<input type="checkbox"/> <input type="checkbox"/>	
137	CS08	8	17:25	BE	ROS	/	51°08.52	128°35.98	143		-	-	HM+	<input type="checkbox"/> <input checked="" type="checkbox"/>	CTD ONLY
			17:27	BO			51°08.54	128°35.97		135	-			<input type="checkbox"/> <input type="checkbox"/>	
			17:30	EN			51°08.54	128°35.97			-			<input type="checkbox"/> <input type="checkbox"/>	
138	CS08	8	17:34	BE	NET		51°08.52	128°35.97	143		-			<input type="checkbox"/> <input type="checkbox"/>	
			17:39	BO			51°08.53	128°35.95		133	-			<input type="checkbox"/> <input type="checkbox"/>	
			17:42	EN			51°08.53	128°35.95			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				.	.			-			<input type="checkbox"/> <input type="checkbox"/>	

**Event Type:**

BOT = Bottle cast (no CTD)  
 CTD = Standalone CTD  
 ROS = CTD in Rosette  
 SET = Fish Set

LOOP = Sea Water Loop  
 MOR = Mooring  
 NET = Plankton Net Haul  
 DRF = Drifter  
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**Bottle Firing Method:**

US = Up / Stop (default)  
 UN = Up / No stop  
 DN = Down / No stop

**Time Code:**

BE = Beginning Time of Cast  
 BO = Bottom Time of Cast  
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**CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products**

DE = Deployment Time  
 MR = Messenger Release Time  
 RE = Recover Mooring Time

Produced by the Water Properties Group, IOS

Notes:

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139	CS09	8	18:26	BE	ROS	U.S.	51° 12.52	128° 28.07	195		380 - 391	12	14M/R	<input type="checkbox"/> <input checked="" type="checkbox"/>	
			18:30	BO			51° 12.51	128° 28.11		186	-			<input type="checkbox"/> <input type="checkbox"/>	
			18:44	EN			51° 12.47	128° 28.09			-			<input type="checkbox"/> <input type="checkbox"/>	
140	CS09	8	18:53	BE	NET	/	51° 12.42	128° 28.04	195		-		MG	<input type="checkbox"/> <input type="checkbox"/>	Bongo
			18:59	BO			51° 12.39	128° 27.89		190	-			<input type="checkbox"/> <input type="checkbox"/>	
			19:02	EN			51° 12.37	128° 27.87			-			<input type="checkbox"/> <input type="checkbox"/>	
141	CS09	8	19:12	BE	NET	/	51° 12.43	128° 28.07	195		-		MG	<input type="checkbox"/> <input type="checkbox"/>	RING
			19:19	BO			51° 12.35	128° 27.88		190	-			<input type="checkbox"/> <input type="checkbox"/>	
			19:22	EN			51° 12.32	128° 27.83			-			<input type="checkbox"/> <input type="checkbox"/>	
142	CS10	8	20:09	BE	ROS	-	51° 16.50	128° 20.06	80		-	Ø	MR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			20:11	BO			51° 16.49	128° 20.06		74	-			<input type="checkbox"/> <input type="checkbox"/>	
			20:12	EN			51° 16.50	128° 20.04			-			<input type="checkbox"/> <input type="checkbox"/>	
143	CS10	8	20:19	BE	NET		51° 16.48	128° 20.02	81		-			<input type="checkbox"/> <input type="checkbox"/>	Bongo
			20:22	BO			51° 16.45	128° 20.01		75	-			<input type="checkbox"/> <input type="checkbox"/>	
			20:23	EN			51° 16.45	128° 20.00			-			<input type="checkbox"/> <input type="checkbox"/>	
144	SS5	8	22:32	BE	ROS	US	51° 28.00	128° 30.03	200		392 - 394	3	MR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			22:37	BO			51° 27.98	128° 30.03		191	-			<input type="checkbox"/> <input type="checkbox"/>	
			22:43	EN			51° 27.98	128° 30.01			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/> <input type="checkbox"/>	

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Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude Longitude		Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
145	SS5	8	22:48	BE	NET		51°27.99	128°30.00	195		-		MG	<input type="checkbox"/>	
			22:56	Bo			51°27.96	128°29.91	198	195	-			<input type="checkbox"/>	
			22:59	EN			51°27.95	128°29.87			-			<input type="checkbox"/>	
146	SS6	9	01:26	BE	ROS	-	51°20.01	128°00.07	175		-	∅	MR	<input checked="" type="checkbox"/>	WAIT @ SURF WIRE 2°
			01:30	Bo			51°19.97	128°00.02		166	-			<input type="checkbox"/>	
			01:33	EN			51°19.97	128°00.01			-			<input type="checkbox"/>	
147	SS6	9	01:40	BE	NET		51°19.99	128°00.02	175		-			<input type="checkbox"/>	Bongo
			01:45	Bo			51°19.91	128°00.08		170	-			<input type="checkbox"/>	
			01:48	EN			51°19.90	128°00.08			-			<input type="checkbox"/>	
148	CPE1	9	04:27	BE	ROS	-	51°00.07	127°49.99	140		-	∅	MR	<input checked="" type="checkbox"/>	STOP 70↓ WIRE 2° 115↓
			04:32	Bo			51°00.10	127°49.98		132	-			<input type="checkbox"/>	
			04:34	EN			51°00.09	127°49.94			-			<input type="checkbox"/>	
149	CPE1	9	04:39	BE	NET	-	51°06.07	127°49.95	143		-			<input type="checkbox"/>	Bongo
			04:44	Bo			51°06.05	127°49.87		135	-			<input type="checkbox"/>	
			04:46	EN			51°00.02	127°49.79			-			<input type="checkbox"/>	
150	JS	9	11:54	BE	ROS	U.S	50°29.96	126°28.27	394		395-405	11	HM+	<input checked="" type="checkbox"/>	
			12:00	Bo			50°29.91	126°28.29			-			<input type="checkbox"/>	
			12:15	EN			50°29.97	126°28.27			-			<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	No BONGO 50kts+

**Event Type:** LOOP = Sea Water Loop  
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Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
151	LOOP 151	9	13:02	BE	LOOP	-	50°29.46	126°18.30	357	4.5	5151-	-	AT	<input type="checkbox"/>	LOOP 5151 DCHL ISAL
152	14	9	20:15	BE	ROS	US	49°53.04	124°59.52	310		406-408	3	MR	<input checked="" type="checkbox"/>	STOP 195 ↓ WR 20
			20:22	Bo			49°53.05	124°59.52		304	-			<input type="checkbox"/>	
			20:30	EN			49°53.05	124°59.51			-			<input type="checkbox"/>	
153	14	9	20:35	BE	NET		49°53.04	124°59.46	310				MG	<input type="checkbox"/>	BONGO
			20:46	Bo			49°52.97	124°59.31		305	-			<input type="checkbox"/>	
			20:51	EN			49°52.94	124°59.23			-			<input type="checkbox"/>	
154	12	9	22:33	BE	ROS	US	49°43.66	124°40.88	352		409-411	3	MR	<input checked="" type="checkbox"/>	
			22:40	Bo			49°43.71	124°40.97		346	-			<input type="checkbox"/>	
			22:49	EN			49°43.76	124°41.09			-			<input type="checkbox"/>	
155	12	9	22:54	BE	NET	-	49°43.73	124°41.04	352				MG	<input type="checkbox"/>	BONGO
			23:05	Bo			49°43.70	124°40.98		347	-			<input type="checkbox"/>	
			23:11	EN			49°43.69	124°40.96			-			<input type="checkbox"/>	
156	11	9	23:30	BE	ROS	US	49°42.45	124°43.48	299		412-413	7	MR	<input checked="" type="checkbox"/>	WRONG DEPTH HEADER
			23:36	Bo			49°42.47	124°43.50		293	-			<input type="checkbox"/>	
			23:46	EN			49°42.51	124°43.53			-			<input type="checkbox"/>	
157	11	9	23:51	BE	NET	-	49°42.51	124°43.49	300				MG	<input type="checkbox"/>	BONGO
		10	00:00	Bo			49°42.45	124°43.35		295	-			<input type="checkbox"/>	
			00:04	EN			49°42.43	124°43.31			-			<input type="checkbox"/>	

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158	CPF2	10	01:45	BE	ROS	US	49°28.04	124°29.94	324		419-421	3	MR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			01:52	BO			49°28.02	124°29.90		318	-			<input type="checkbox"/> <input type="checkbox"/>	
			01:59	EN			49°28.01	124°29.91			-			<input type="checkbox"/> <input type="checkbox"/>	
159	CPF2	10	02:04	BE	NET	-	49°28.02	124°29.91	324		-		MG	<input type="checkbox"/> <input type="checkbox"/>	
			02:15	BO			49°27.98	124°29.77		320	-			<input type="checkbox"/> <input type="checkbox"/>	
			02:20	EN			49°27.98	124°29.70			-			<input type="checkbox"/> <input type="checkbox"/>	
160	CPF1	10	04:05	BE	ROS	US	49°21.97	124°05.00	242		422-424	3	MR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			04:10	BO			49°21.95	124°05.03		233	-			<input type="checkbox"/> <input type="checkbox"/>	
			04:16	EN			49°21.94	124°05.06			-			<input type="checkbox"/> <input type="checkbox"/>	
161	CPF1	10	04:21	BE	NET	-	49°21.92	124°05.05	237		-			<input type="checkbox"/> <input type="checkbox"/>	Shallowed to 230m
			04:26	BO			49°21.82	124°04.91		225	-			<input type="checkbox"/> <input type="checkbox"/>	Bongo
			04:32	EN			49°21.76	124°04.85			-			<input type="checkbox"/> <input type="checkbox"/>	
162	22	10	06:19	BE	ROS	US	49°40.21	124°16.46	348		425-437	13	MR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			06:26	BO			49°40.19	124°16.47		347	-			<input type="checkbox"/> <input type="checkbox"/>	
			06:44	EN			49°40.18	124°16.49			-			<input type="checkbox"/> <input type="checkbox"/>	
163	22	10	06:52	BE	NET	-	49°40.15	124°16.51	347		-		AT	<input type="checkbox"/> <input type="checkbox"/>	BONGO
			07:03	BO			49°39.93	124°16.39		340	-			<input type="checkbox"/> <input type="checkbox"/>	
			07:09	EN			49°39.88	124°16.44			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				.	.			-			<input type="checkbox"/> <input type="checkbox"/>	

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164	24	10	08:27	BG	ROS	V.S	49°30.41	124°06.06	425		438-440	3	HM+	<input type="checkbox"/> <input checked="" type="checkbox"/>	
			08:34	BO			49°30.42	124°05.87		415	-		H.R.	<input type="checkbox"/> <input type="checkbox"/>	
			08:46	EN			49°30.43	124°05.67			-			<input type="checkbox"/> <input type="checkbox"/>	
165	24	10	08:56	BG	NET	-	49°30.44	124°05.63	350		-	-	AT+	<input type="checkbox"/> <input type="checkbox"/>	BONGO
			09:00	BO			49°30.41	124°05.57		340	-			<input type="checkbox"/> <input type="checkbox"/>	
			09:06	EN			49°30.38	124°05.58			-			<input type="checkbox"/> <input type="checkbox"/>	
166	28	10	10:43	BG	ROS	V.S	49°24.20	123°45.36	132		441-443	3	HM+	<input type="checkbox"/> <input checked="" type="checkbox"/>	→
			10:46	BO			49°24.20	123°45.35		124	-			<input type="checkbox"/> <input type="checkbox"/>	
			10:50	EN			49°24.19	123°45.34			-			<input type="checkbox"/> <input type="checkbox"/>	
167	28	10	10:55	BG	NET	-	49°24.17	123°45.35	135		-	-	AT+	<input type="checkbox"/> <input type="checkbox"/>	BONGO
			10:59	BO			49°24.17	123°45.35		125	-			<input type="checkbox"/> <input type="checkbox"/>	
			11:01	EN			49°24.16	123°45.35			-			<input type="checkbox"/> <input type="checkbox"/>	
168	Geo 1	10	12:22	BG	ROS	V.S	49°15.02	123°45.00	399		444-456	13	HM+	<input type="checkbox"/> <input checked="" type="checkbox"/>	
			12:29	BO			49°15.00	123°45.01		394	-			<input type="checkbox"/> <input type="checkbox"/>	
			12:46	EN			49°15.00	123°45.01			-			<input type="checkbox"/> <input type="checkbox"/>	
169	Geo 1	10	12:52	BG	Net	<del>V.S</del>	49°15.01	123°44.97	399		-		AT	<input type="checkbox"/> <input type="checkbox"/>	BONGO
			13:04	BO			49°15.01	123°44.95		390	-			<input type="checkbox"/> <input type="checkbox"/>	
			13:10	EN			49°15.00	123°44.93			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/> <input type="checkbox"/>	

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**Notes:**

NEW <sup>TOP</sup> O RING IN BOT # 21

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<del>170</del>	<del>GEO1</del>	<del>10</del>	<del>13:21</del>	<del>BF</del>	<del>NET</del>		<del>49° 15.02</del>	<del>123° 47.01</del>	<del>399</del>		-		<del>AT</del>	<input type="checkbox"/>	<del>Ring 64 μm</del>
			13:34	BO			49° 14.98	123° 44.97		390	-			<input type="checkbox"/>	
			13:40	EN			49° 14.98	123° 44.95			-			<input type="checkbox"/>	
171	GEO1	10	14:05	BE	NET		49° 14.98	123° 44.90	<del>399</del> 418		-		AT	<input type="checkbox"/>	MPS VIV H
			14:22	BO			49° 14.93	123° 44.69		390	-			<input type="checkbox"/>	
			14:30	EN			49° 14.88	123° 44.66			-			<input type="checkbox"/>	
172	38	10	15:56	BC	ROS	US	49° 11.99	123° 26.47	304		457-45	3	4M+	<input type="checkbox"/>	NISKIN 21 CLOSED
			16:01	BO			49° 11.97	123° 26.45		299	-	+1		<input type="checkbox"/>	FOR TESTING
			16:09	EN			49° 11.99	123° 26.43			-			<input type="checkbox"/>	
173	38	10	16:16	BC	NET	—	49° 11.99	123° 26.42	304		—	—	AT+	<input type="checkbox"/>	BONGO
			16:26	BO			49° 11.97	123° 26.35		295	-			<input type="checkbox"/>	
			16:31	EN			49° 11.96	123° 26.32			-			<input type="checkbox"/>	
174	41	10	17:35	BC	ROS	—	49° 03.31	123° 22.31	238		—	—	4M+	<input type="checkbox"/>	CTD ONLY
			17:39	BO			49° 03.28	123° 22.30		232	-			<input type="checkbox"/>	
			17:44	EN			49° 03.23	123° 22.44			-			<input type="checkbox"/>	
175	41	10	17:49	BC	NET		49° 03.18	123° 22.29	238		—	—	AT+	<input type="checkbox"/>	BONGO
			17:56	BO			49° 03.06	123° 22.23		230	-			<input type="checkbox"/>	
			18:00	EN			49° 02.99	123° 22.18			-			<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	

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 BO = Bottom Time of Cast  
 EN = End Time of Cast

**CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products**  
 DE = Deployment Time  
 MR = Messenger Release Time  
 RE = Recover Mooring Time

**Notes:**



# DAILY SCIENCE LOG

## Ocean Sciences Division, Institute of Ocean Sciences

Month <u>SEPTEMBER</u>			Year <u>2018</u>		Vessel <u>TULLY</u>			Cruise ID <u>2018-34</u>							
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
176	42	10	18:26	BE	ROS	US	49° 01.77	123° 26.20	314		460-470	11	HM +	<input checked="" type="checkbox"/>	
			18:32	BO			49° 01.77	123° 26.16		309	-		AT	<input type="checkbox"/>	
			18:49	EN			49° 01.77	123° 26.09			-		MR	<input type="checkbox"/>	
177	42	10	18:54	BE	Net	/	49° 01.74	123° 26.07	314		-		MG	<input type="checkbox"/>	BONGO
			19:04	BO			49° 01.59	123° 25.92		310	-			<input type="checkbox"/>	
			19:09	EN			49° 01.50	123° 25.83			-			<input type="checkbox"/>	
178	46	10	20:35	BE	ROS	US	48° 51.49	123° 10.75	169		471-473	3	MR	<input checked="" type="checkbox"/>	
			20:38	BO			48° 51.49	123° 10.77		162	-			<input type="checkbox"/>	
			20:43	EN			48° 51.48	123° 10.77			-			<input type="checkbox"/>	
179	46	10	20:47	BE	NET	-	48° 51.46	123° 10.79	171		-		MG	<input type="checkbox"/>	BONGO
			20:51	BO			48° 51.43	123° 10.80		165	-			<input type="checkbox"/>	
			20:54	EN			48° 51.41	123° 10.82			-			<input type="checkbox"/>	
			:				°	.			-			<input type="checkbox"/>	
			:				°	.			-			<input type="checkbox"/>	
			:				°	.			-			<input type="checkbox"/>	
			:				°	.			-			<input type="checkbox"/>	
			:				°	.			-			<input type="checkbox"/>	
			:				°	.			-			<input type="checkbox"/>	
			:				°	.			-			<input type="checkbox"/>	
			:				°	.			-			<input type="checkbox"/>	

**Event Type:**  
 BOT = Bottle cast (no CTD)  
 CTD = Standalone CTD  
 ROS = CTD in Rosette  
 SET = Fish Set

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

**Bottle Firing Method:**  
 US = Up / Stop (default)  
 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

**CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products**

DE = Deployment Time  
 MR = Messenger Release Time  
 RE = Recover Mooring Time

Produced by the Water Properties Group, IOS

Notes: