DAILY SCIENCE LOG BOOK

MISSION NUMBER: 2020-007

DATE: From: 16 March 2020 To:

VESSEL: CCGS Neocaligus

PROJECT(S): SoG Zooplankton

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

WaterProperties.ca

Captain: DUSTAN

~~First Officer~~ Cook: DOUG

~~Second Officer~~ Bosun: JANCE

Third Officer: _____

Fishing Master: _____

Chief Engineer: CORD / GEORGE

Mission Participants / Agencies:

MARK BELTON

**** Chief Scientist to tape Scientific Personnel section of their cruise plan here ****

This is accessed from your WaterProperties.ca Dashboard or from here:
https://www.waterproperties.ca/requests/cruiseplanview.php?cruiseid=YYYY-NNN

**** The following 3 pages are VERY IMPORTANT as they document equipment and settings used on board ****

These pages are to be completed by the CTD Technician setting up the equipment, the Watch Leader on board, and the Chief Scientist MUST verify that all relevant sections are completed prior to leaving the vessel. *Any mid-cruise changes to be noted by watch leader in the notes.*

Data logging computer: _____

Data acquisition program: Seaterm

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

Primary CTD

Make: SBE model: 25 serial number: 456

Primary temperature serial number: 5130

Primary conductivity serial number: 3500

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ serial: _____

Transmissometer: _____ Model: _____ serial: _____

Fluorometer: Model Wetlabs ECO Cable gain: 2S serial: 4185 **P, S** or **NO** pump?

Fluorometer: Model _____ Cable gain: _____ serial: _____ **P, S** or **NO** pump?

Oxygen sensor: SBE Model: 43 serial: 3234 **P, S** or **NO** pump?

PAR sensor: _____ Model: _____ serial: _____ **Surface PAR? Y / N**

Other sensors: Pressure SBE 29 serial: 0573 **P, S** or **NO** pump?

Other sensors: _____ serial: _____ **P, S** or **NO** pump?

Other sensors: _____ serial: _____ **P, S** or **NO** pump?

Other sensors: _____ serial: _____ **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: _____ serial: _____

Transmissometer: _____ Model: _____ serial: _____

Fluorometer: Model _____ Cable gain: _____ serial: _____ **P, S** or **NO** pump?

Fluorometer: Model _____ Cable gain: _____ serial: _____ **P, S** or **NO** pump?

Oxygen sensor: _____ Model: _____ serial: _____ **P, S** or **NO** pump?

PAR sensor: _____ Model: _____ serial: _____ **Surface PAR? Y / N**

Other sensors: _____ serial: _____ **P, S** or **NO** pump?

Other sensors: _____ serial: _____ **P, S** or **NO** pump?

Other sensors: _____ serial: _____ **P, S** or **NO** pump?

Other sensors: _____ serial: _____ **P, S** or **NO** pump?

CTD calibration bottle location (height above CTD in metres): _____

This also includes the bottle location above the CTD on non-rosette casts (typical on small launches).

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month MARCH **Year** 2020 **Vessel** NEOCALITUS **Cruise ID** 2020-017

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
1	CG01	16	19:21	BE	CTD		49° 14.987	123° 45.377	407		-		MB	☑ ☐	
			:28	BO	BOT	MSG	° 14.961	° 45.336		397	/ -	/		☐ ☐	DEEP SALINITY
			:37	EN			° 141.915	° 45.293			-			☐ ☐	
2	CG01	16	19:38	BE	BOT	MSG	49° 14.914	123° 45.295	407	Ø	2 -	/		☐ ☐	
3	CG01	16	19:43	BE	NET		49° 15.000	123° 45.407	407		-	-	MB	☐ ☐	
			19:55	BO			° 14.958	° 45.318		397	-			☐ ☐	
			20:04	EN			° 14.921	° 45.298			-			☐ ☐	
4	2	16	22:31	BE	CTD	-	49° 24.121	124° 09.307	278		-	-	MB	☑ ☐	
			22:37	BO			49° 24.083	124° 09.283		268	-			☐ ☐	
			22:42	EN			49° 24.053	124° 09.261			-			☐ ☐	
5	2	16	22:43	BE	BOT	MSG	49° 24.042	124° 09.249	278	Ø	3 -	/	MB	☐ ☐	
6	3	16	23:37	BE	CTD	-	49° 26.581	124° 20.171	321	311	-	-	MB	☑ ☐	
			23:43	BO			° 26.559	° 20.103		311	-			☐ ☐	
			23:49	EN			° 26.553	° 20.067			-			☐ ☐	
7	3	16	23:53	BE	BOT	MSG	49° 26.555	124° 20.111	321	Ø	4 -	1	MB	☐ ☐	
8	BS-11	17	14:14	BE	CTD		49° 28.995	124° 46.000	60		-	-	MB	☑ ☐	DAY 2
			14:15	BO			° 28.992	° 45.997		50	-			☐ ☐	
			14:16	EN			° 28.990	° 45.995			-			☐ ☐	
9	BS-11	17	14:17	BE	BOT	MSG	49° 28.972	124° 45.985	60	Ø	5 -	1	MB	☐ ☐	

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

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

Notes: _____

- START 2020-007 BEAUTIFUL CLEAR DAY.

~ 56" FROM CTD TO BOTTOM OF DEEP SAL BOTTLE

- NEW WINCH OPERATOR; DELAY @ SRF (> 2 MIN SOAK), STARTED SLOWER THAN 1 M/SEC FOR FIRST ~150-200M

FINISHED DAY 1: ANCHOR IN BARNES SOUND / DEEP BAY

START DAY 2: 8°C OVER-CAST, CALM.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month MARCH **Year** 2020 **Vessel** NEOCALITUS **Cruise ID** 2020-007

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
10	BS-11	17	14:24	BE	NET	-	49° 29.064	124° 45.991	60		-	-	MB	☐☐	
			14:25	BO			° 29.006	° 45.986		50	-			☐☐	
			14:27	EN			° 29.005	° 45.979			-			☐☐	
11	CPF2	17	15:36	BE	CTD	-	49° 27.966	124° 29.967	329		-	-	MB	☑☐	
			15:42	BO			° 27.946	° 29.935		319	-			☐☐	
			15:47	EN			° 27.911	° 29.900			-			☐☐	
12	CPF2	17	15:51	BE	NET	-	49° 28.057	124° 29.985	329		-	-	MB	☐☐	
			16:03	BO			° 27.977	° 29.921		319	-			☐☐	
			16:10	EN			° 27.871	° 29.911			-			☐☐	
13	6	17	16:33	BE	CTD	-	49° 30.611	124° 27.800	193		-		MB	☐☐	
			16:36	BO			° 30.598	° 27.765		183	-			☐☐	
		17	16:40	EN			° 30.567	° 27.710			-			☐☐	
14	6		16:41	BE	BOT	MSG	49° 30.561	124° 27.789			6 -	1	MB	☐☐	
15	9	17	17:40	BE	CTD	-	49° 35.497	124° 38.302	170		-	-	MB	☑☐	
			17:43	BO			° 35.488	° 38.281		160	-			☐☐	
			17:46	EN			° 35.468	° 38.245			-			☐☐	
16	9	17	17:47	BE	BOT	MSG	49° 35.463	124° 38.235	170	9	7 -	1	MB	☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	

Event Type:
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RE = Recover Mooring Time

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

Notes: _____

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month MARCH **Year** 2020 **Vessel** NEOCALIGUS **Cruise ID** 2020-007

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
17	11	17	18:42	BE	CTD	-	49° 42.433	124° 43.462	303		-	-	MB	☑ ☐	
			18:47	BO			° 42.389	° 43.442		293	-			☐ ☐	
			18:52	EN			° 42.350	° 43.417			-			☐ ☐	
18	11	17	18:56	BE	NET	-	49° 42.434	124° 43.475	303		-	-	MB	☐ ☐	
			19:07	BO			° 42.387	° 43.430		293	-			☐ ☐	
			19:11	EN			° 42.356	° 43.408			-			☐ ☐	
19	12	17	19:30	BE	CTD/BOT		49° 43.607	124° 40.795	357		-	-	MB	☑ ☐	
			19:37	BO		MSG	° 43.582	° 40.778		347	8 -	1		☐ ☐	DEEP SAL
			19:44	EN			° 43.550	° 40.772			-			☐ ☐	
20	12	17	19:46	BE	BOT	MSG	49° 43.540	124° 40.769			9 -	1 -	MB	☐ ☐	
21	12	17	19:50	BE	NET	-	49° 43.631	124° 40.792	354		-	-	MB	☐ ☐	
			20:01	BO			° 43.606	° 40.777		347	-			☐ ☐	
			20:08	EN			° 43.626	° 40.811			-			☐ ☐	
22	20	17	21:08	BE	CTD	-	49° 47.187	124° 32.287	317		-	-	MB	☑ ☐	
			21:13	BO			° 47.161	° 32.251		307	-			☐ ☐	
			21:19	EN			° 47.136	° 32.210			-			☐ ☐	
23	22	17	22:36	BE	CTD/		49° 40.213	124° 16.293	354		-			☑ ☐	
			22:42	BO	BOT	MSG	° 40.195	° 16.226		314	10 -	1	MB	☐ ☐	
			22:50	EN			° 40.111	° 16.201			-			☐ ☐	

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DN = Down / No stop

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Notes: _____

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month MARCH **Year** 2020 **Vessel** NEOCALEGUS **Cruise ID** 2020-007

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
24	22	17	22:54	BE	BOT	MSG	49° 40.211	124° 16.307	354	Ø	11 -	1	MB	☐☐	
25	22	17	22:59	BE	NET	-	49° 40.198	124° 16.245	354	3	-	-	MB	☐☐	
			23:08	BO			° 40.197	° 16.217		344	-			☐☐	
			23:14	EN			° 40.198	° 16.171			-			☐☐	
26	IS-2	18	00:05	BE	CTD	-	49° 38.174	124° 5.012	26		-	-	MB	☑☐	
			00:05	BO			° 38.174	° 5.012		16	-			☐☐	
			00:06	EN			° 38.167	° 5.043			-			☐☐	
27	IS-2	18	00:08	BE	NET	-	49° 38.164	124° 5.050	26		-	-	MB	☐☐	
			00:08	BO			° 38.164	° 5.050		16	-			☐☐	
			00:09	EN			° 38.160	° 5.051			-			☐☐	
28	24	18	00:59	BE	CTD	-	49° 30.300	124° 6.000	426		-	-	MB	☑☐	
			01:07	BO			° 30.242	° 5.949		416	-			☐☐	
			01:14	EN			° 30.186	° 5.922			-			☐☐	
29	24	18	01:17	BE	NET	-	49° 30.200	124° 5.950	426		-	-	MB	☐☐	
			01:32	BO			° 30.211	° 5.973		416	-			☐☐	
			01:39	EN			° 30.231	° 5.991			-			☐☐	
30	CPF1	18	15:03	BE	CTD	-	49° 21.996	124° 4.972	246		-	-	MB	☑☐	
			15:07	BO			° 21.983	° 4.930		236	-			☐☐	
			15:11	EN			° 21.983	° 4.885			-			☐☐	

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

Notes: _____

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 17 Feb 2020

- FINISH DAY 2. ANCHOR SOUTH END OF LESQUETI ISLAND

- START DAY 3. BEAUTIFUL CLEAR MORNING; CRESCENT MOON RISING, HERRING JUMPING AROUND SHIP.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month MARCH **Year** 2020 **Vessel** NEOCALE GUS **Cruise ID** 2020-007

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
31	CPF1	18	15:15	BE	NET	-	49° 22.000	124° 5.008	246		-	-	MB	☐☐	
			15:23	BO			°21.990	° 4.924		236	-			☐☐	
			15:28	EN			°21.994	° 4.907			-			☐☐	
32	27	18	16:43	BE	CTD		49° 19.092	123° 47.994	348		-		MB	☑☐	
			16:49	BO			°19.081	° 47.961		338	-			☐☐	
			16:55	EN			°19.902	° 47.957			-			☐☐	
33	27	18	16:57	BE	BOT	MSC	49° 19.079	123° 47.983	348	Ø	12 -	1	MB	☐☐	
34	28	18	17:37	BE	CTD		49° 24.104	123° 45.294	134		-		MB	☑☐	
			17:40	BO			°24.081	° 45.275		130	-			☐☐	
			17:42	EN			°24.074	° 45.270			-			☐☐	
35	28	18	17:43	BE	BOT	MSC	49° 24.066	123° 45.263	134	Ø	13 -	1	MB	☐☐	
36	28	18	17:47	BE	NET	-	49° 24.105	123° 45.331	136		-	-	MB	☐☐	
			17:51	BO			°24.097	°45.314		126	-			☐☐	
			17:53	EN			°24.097	°45.307			-			☐☐	
37	38	18	19:41	BE	CTD	-	49° 12.010	123° 26.398	309		-	-	MB	☑☐	
			19:46	BO			49° 12.014	123° 26.349		299	-			☐☐	
			19:51	EN			49° 12.033	123° 26.303			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	

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

Notes: _____

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month MARCH **Year** 2020 **Vessel** NEOCLEOUS **Cruise ID** 2020-007

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
38	38	18	19:53	BE	NET	-	49° 12.000	123° 26.446	309		-	-	MB	☐☐	
			20:04	BO			° 11.986	° 26.364		299	-			☐☐	
			20:09	EN			° 11.981	° 26.344			-			☐☐	
39	108	18	21:34	BE	CTD/ROS	MSG	49° 4.377	123° 19.126	88		-		MB	☑☐	
			21:36	BO			° 4.369	° 19.135		78	18 -	1		☐☐	
			21:38	EN			° 4.360	° 19.148			-			☐☐	
~~40~~	~~40~~	~~18~~	~~22:00~~	~~BE~~	~~CTD~~	~~-~~	~~49° 3.288~~	~~123° 22.306~~	~~244~~		~~-~~	~~-~~	~~MB~~	~~☑☐~~	
41	41	18	22:05	BE	CTD	-	49° 3.288	123° 22.306	244		-	-	MB	☑☐	
			22:09	BO			° 3.265	° 22.316		234	-			☐☐	
			22:13	EN			° 3.248	° 22.316			-			☐☐	
42	41	18	22:16	BE	NET	-	49° 3.297	123° 22.265	240		-	-	MB	☐☐	
			22:24	BO			° 3.268	° 22.255		230	-			☐☐	
			22:28	EN			° 3.259	° 22.246			-			☐☐	
43	39	18	23:35	BE	CTD/BOT		49° 9.805	123° 33.966	377		-			☑☐	
			23:41	BO		MSG	° 9.800	° 32.883		367	14 -	1	MB	☐☐	DEEP SAL.
			23:49	EN			° 9.780	° 32.871			-			☐☐	
44	39	18	23:54	BE	BOT		49° 9.808	123° 32.930	377	Ø	15 -	1	MB	☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	

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Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 17 Feb 2020

~ 1400 CALLED OFF OPERATIONS TO MOVE A VESSEL; OFF STEVESTON BREAKWATER.
↳ CALLED OFF @ 1415 HEAD TO STN. 108.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month MARCH **Year** 2020 **Vessel** NEOCALECUS **Cruise ID** 2020-007

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
45	40	19	15:36	BE	CTD	.	49° 8.608	123° 36.762	147		--	.	MB	☑ ☐	
			:38	BO			° 8.615	° 36.784		137	-			☐ ☐	
			:40	EN			° 8.615	° 36.786			-			☐ ☐	
46	40	19	15:41	BE	NET	.	49° 8.615	123° 36.790	143		=	.	MB	☐ ☐	
			:46	BO			° 8.622	° 36.801		133	-			☐ ☐	
			:49	EN			° 8.631	° 36.821			-			☐ ☐	
47	42	19	16:56	BE	CTD/BOT	.	49° 1.791	123° 26.208	321		-	.	MB	☑ ☐	
			17:02	BO		MSG	° 1.781	° 26.249		311	16 -	1		☐ ☐	DEEP SAL
			17:08	EN			° 1.780	° 26.272			-			☐ ☐	
48	42	19	17:16	BE	BOT	MSG	49° 1.785	123° 26.270	321	Ø	17 -	1	MB	☐ ☐	
49	42	19	17:13	BE	NET	.	49° 1.810	123° 26.151	321		-	-	MB	☐ ☐	
			17:24	BO			° 1.826	° 26.201		311	-			☐ ☐	
			17:29	EN			° 1.831	° 26.211			-			☐ ☐	
50	46	19	19:00	BE	CTD		48° 51.387	123° 10.809	180		-	.	MB	☑ ☐	
			19:03	BO			° 51.366	° 10.775		170	-			☐ ☐	
			19:06	EN			° 51.351	° 10.753			-			☐ ☐	
51	46	19	19:06	BE	BOT	MSG	48° 51.345	123° 10.743	180	Ø	18 =	1	MB	☐ ☐	
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

Event Type:
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Bottle Firing Method:
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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

Notes: _____

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

END OF DAY 3. DROPPED CORD (ENGINEER) OFF @ PBS & TIED UP. LOTS OF ANXIETY AMONGST CREW RE: CORONAVIRUS

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month MARCH **Year** 2020 **Vessel** NEOCALICUS **Cruise ID** 2020-007

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
52	46	19	19:10	BE	NET	-	48° 51.412	123° 10.824	179		-	-	MB	☐☐	
			19:16	BO			° 51.389	° 10.790		169	-			☐☐	
			19:19	EN			° 51.392	° 10.795			-			☐☐	
53	56	19	20:16	BE	CTD	-	48° 46.403	123° 1.607	210		-		MB	☑☐	
			20:20	BO			° 46.436	° 1.594		200	-			☐☐	
			20:23	EN			° 46.463	° 1.585			-			☐☐	
54	56	19	20:25	BE	BOT	MSG	48° 46.488	123° 1.577			19-	1	MB	☐☐	
55	59	19	21:59	BE	CTD	-	48° 36.931	123° 14.930	237		-	-	MB	☑☐	
			22:03	BO			° 36.880	° 14.867		227	-			☐☐	
56	59	19	22:06	EN	BOT	MSG	° 36.853	° 14.845			-	-		☐☐	
56	59	19	22:11	BE	BOT	MSG	48° 36.970	123° 14.931	237	Ø	20-	1	MB	☐☐	
57	59	19	22:14	BE	NET	-	48° 36.977	123° 14.962	235		-	-	MB	☐☐	
			22:22	BO			° 36.885	° 14.872		225	-			☐☐	
			22:25	EN			° 36.847	° 14.844			-			☐☐	
58	CI-01	19	23:40	BE	CTD	-	48° 45.829	123° 20.497	65		-	-	MB	☑☐	
			23:42	BO			° 45.817	° 20.488		55	-			☐☐	
			23:43	EN			° 45.812	° 20.486			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	

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

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

Notes: _____

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 17 Feb 2020

98288

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month MARCH **Year** 2020 **Vessel** NEOCKEGUS **Cruise ID** 2020-057

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
59	GI-01	19	23:43	BE	NGT	-	48 ° 45 . 810	123 ° 2[illegible] . 486	65		-	-	MB	☐☐	
			23:45	BO			° 45 . 786	° 20 . 477		55	-			☐☐	
			23:46	EN			° 45 . 782	° 20 . 479			-			☐☐	
60	SC04	20	00:15	BE	CTD	-	48 ° 43 . 553	123 ° 24 . 997	95		-	-	MB	☑☐	
			00:17	BO			° 43 . 545	° 25 . 000		85	-			☐☐	
			00:18	EN			° 43 . 548	° 24 . 996			-			☐☐	
61	SC04	20	00:19	BE	BOT	MSC	48 ° 43 . 550	123 ° 24 . 993	95	0	21 -	1	MB	☐☐	
62	SC04	20	00:21	BE	NGT		48 ° 43 . 499	123 ° 24 . 975	93		-		MB	☐☐	
			00:24	BO			° 43 . 501	° 24 . 962		83	-			☐☐	
			00:26	EN			° 43 .	° 25 .			-			☐☐	
63	CBE2	20	14:52	BE	CTD	-	48 ° 44 . 216	123 ° 34 . 418	65		-	-	MB	☑☐	
			:53	BO			° 44 . 209	° 34 . 400		55	-			☐☐	
			:54	EN			° 44 . 206	° 34 . 385			-			☐☐	
64	CBE2	20	14:57	BE	NGT	-	48 ° 44 . 228	123 ° 34 . 419	66		-	-	MB	☐☐	
			:59	BO			° 44 . 228	° 34 . 419		56	-			☐☐	
			15:00	EN			° 44 . 225	° 34 . 406			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	

Event Type:
BOT = Bottle cast (no CTD)
CTD = Standalone CTD
ROS = CTD in Rosette
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___ = _____

Bottle Firing Method:
US = Up / Stop (default)
UN = Up / No stop
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Time Code:
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Notes: _____

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

END OF DAY 4, ANCHOR CON BAY

DAY 5: CBE2 SIN & FOS UNLOAD