

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month JULY			Year 2022			Vessel Norstar Pearl			Cruise ID 2022010						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
96	10774	20	22:41	BE	NET		50° 58.369	128° 57.502	76	65	-		DG	☐ ☐	
			22:42	BO			° .	° .	76		-			☐ ☐	
			22:43	EN			50° 58.363	128° 57.472	76		-			☐ ☐	
97	10774	20	22:49	BE	CTD	MR	50° 58.337	128° 57.328	76	65	25 - 25		DG	☐ ☐	BOT 5m
			22:50	BO			50° 58.333	128° 57.296	76		-			☐ ☐	
			22:51	BN			50° 58.328	128° 57.250	76		-			☐ ☐	
99	10653	20	22:39	BE	NET		50° 55.748	128° 48.895	91	80	-		DG	☐ ☐	
			22:41	BO			50° 55.740	128° 43.895	91		-			☐ ☐	
			22:42	EN			50° 55.723	128° 43.880	91		-			☐ ☐	
100	10653	20	22:47	BE	CTD	MR	50° 55.681	128° 43.792	91	80	24 - 26		DG	☐ ☐	BOT 5m
			22:49	BO			50° 55.667	128° 43.767	91		-			☐ ☐	
			22:50	EN			50° 55.649	128° 43.748	91		-			☐ ☐	
104	9906	21	22:33	BE	NET		50° 42.136	128° 33.141	111	100	-		DG	☐ ☐	
			22:34	BO			50° 42.125	128° 33.115			-			☐ ☐	
			22:36	EN			50° 42.111	128° 33.077			-			☐ ☐	
105	9906	21	22:41	BE	CTD	MR	50° 42.076	128° 32.992	111	100	27 - 27		DG	☐ ☐	BOT 5m
			22:42	BO			50° 42.059	128° 32.961			-			☐ ☐	
			22:44	EN			50° 42.040	128° 32.923			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

Event Type:

BOT = Bottle cast (no CTD)
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Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 17 Feb 2020

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Month 07			Year 2022			Vessel Nordic Pearl			Cruise ID 2022-010						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
107	10282	22	00:16	BE	NET		50° 48.845	128° 30.206	38	25	-		DG+	☐	
			00:17	BO			50° 48.843	128° 30.160			-		KU	☐	
			00:17	EN			50° 48.843	128° 30.160			-			☐	
108	10282	22	00:22	BE	CTD	MR	50° 48.858	128° 29.974	31	20	28-28		DG+RU	☐	BOT 5m
			00:22	BO			50° 48.859	128° 29.941			-			☐	
			00:23	EN			50° 48.861	128° 29.916			-			☐	
110	10660	22	02:37	BE	NET		50° 54.638	128° 20.160	78	65	-		DG+RU	☐	
			02:38	BO			50° 54.611	128° 20.187			-			☐	
			02:39	EN			50° 54.591	128° 20.224			-			☐	
111	10660	22	02:43	BE	CTD	MR	50° 54.538	128° 20.299	78	65	29-29		DG+RU	☐	BOT 5m
			02:44	BO			50° 54.524	128° 20.308			-			☐	
			02:46	EN			50° 54.511	128° 20.317			-			☐	
116	8909	22	22:34	BE	NET		50° 25.030	128° 22.030	191	180	-		DG+RU	☐	
			22:37	BO			50° 25.012	128° 21.986			-			☐	
			22:40	EN			50° 24.991	128° 21.921			-			☐	
117	8909	22	22:44	BE	CTD	MR	50° 24.959	128° 21.843	192	180	30-30		DG+RU	☐	BOT @ 5m
			22:47	BO			50° 24.942	128° 21.789			-			☐	
			22:49	EN			50° 24.928	128° 21.724			-			☐	
			:				.	.			-			☐	

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Month 07			Year 2022			Vessel Nordic Pearl				Cruise ID 2022 010					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
119	9281	23	00:43	BE	NET		50°31.352	128°31.855	191	180	-		DG+RU	☐ ☐	
			00:46	BO			50°31.331	128°31.833			-			☐ ☐	
			00:49	EN			50°31.317	128°31.820			-			☐ ☐	
20	9281	23	00:53	BE	CTD	MR	50°31.225	128°31.758	189	180	31 - 31			☐ ☐	Bot Sm
			00:56	BO			50°31.189	128°31.727			-			☐ ☐	
			00:59	EN			50°31.153	128°31.692			-			☐ ☐	
123	9658	23	04:32	BE	NET		50°39.207	128°25.938	80	70	-			☐ ☐	
			04:34	BO			50°39.194	128°25.918			-			☐ ☐	
			04:35	EN			50°39.172	128°25.885			-			☐ ☐	
124	9658	23	04:40	BE	CTD	MR	50°39.104	128°25.787	79	70	32 - 32			☐ ☐	Bot Sm
			04:41	BO			50°39.082	128°25.758			-			☐ ☐	
			04:42	EN			50°39.063	128°25.727			-			☐ ☐	
127	8539	23	22:32	BE	NET		50°17.998	128°04.818	96	85	-			☐ ☐	- windy; so Bongo
			22:33	BO			50°17.982	128°04.813			-			☐ ☐	was not vertical
			22:35	EN			50°17.939	128°04.776			-			☐ ☐	large angle ~60°
128	8539	23	22:40	BE	CTD	MR	50°17.835	128°04.668	95	85	33 - 33			☐ ☐	Bot Sm
			22:41	BO			50°17.801	128°04.643			-			☐ ☐	
			22:42	EN			50°17.765	128°04.610			-			☐ ☐	
			:				.	.			-			☐ ☐	

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• DG noted there are ^(some) spikes in oxygen data

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Month 07			Year 2022			Vessel Nordic Pearl			Cruise ID 2022-010						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
131	8914	24	01:46	BE	NET		50°24.804	128°05.740	75	65	31 - 31		DG+RV	☐	
			01:47	BO			50°24.797	128°05.729			-			☐	
			01:49	EN			50°24.782	128°05.701			-			☐	
132	8914	24	01:53	BE	CTD	MR	50°24.715	128°05.642	69	60	34 - 34			☐	BOT 5m; DOMOIC ACID
			01:54	BO			50°24.698	128°05.626			-			☐	
			01:55	EN			50°24.681	128°05.599			-			☐	
136	7051	24	22:38	BE	NET		49°53.441	127°27.386	72	60	-			☐	windy; wire angle ~45°
			22:39	BO			49°53.438	127°27.378			-			☐	
			22:40	EN			49°53.434	127°27.363			-			☐	
137	7051	24	22:45	BE	CTD	MR	49°53.407	127°27.304	74	60	35 - 35			☐	windy/2m swell BOT 5m
			22:46	BO			49°53.399	127°27.292			-			☐	
			22:47	EN			49°53.396	127°27.271			-			☐	
139	7054	24	00:52	BE	NET		49°53.062	127°17.677	58	45	-			☐	
		25	00:53	BO			49°53.061	127°17.671			-			☐	
		(UTC)	00:54	EN			49°53.059	127°17.659			-			☐	
140	7054	24	00:59	BE	CTD	MR	49°53.028	127°17.634	58	45	36 - 36			☐	BOT 5m
		25	01:00	BO			49°53.024	127°17.630			-			☐	+ DOMOIC ACID
		(UTC)	01:01	EN			49°53.022	127°17.617			-			☐	could not download data b/c CTD not
			:				°	°			-			☐	connecting to computer

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Event 132 → CTD data seems whacky; something didn't work

- Battery + all connections seem fine
- worked for next CTD. Not sure what happened

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Month 07				Year 2022			Vessel Nordic Pearl			Cruise ID 2022010						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments	
144	3080	25	22:30	BE	NET		48°42.418	125°54.514	74	65	-		DG+RU	☐ ☐		
			22:31	BO			48°42.408	125°54.506			-			☐ ☐		
			22:32	EN			48°42.399	125°54.485			-			☐ ☐		
145	3080	25	22:37	BE	CTD	MR	48°42.396	125°54.396	74	65	37 - 37			☐ ☐	Bot Sm	
			22:38	BO			48°42.390	125°54.376			-			☐ ☐	-cannot connect to CTD -so did not download data	
			22:40	EN			48°42.382	125°54.349			-			☐ ☐		
148	2705	26	01:10	BE	NET		48°35.967	125°53.793	91	80	-			☐ ☐		
			01:11	BO			48°35.978	125°53.755			-			☐ ☐		
			01:13	EN			48°35.988	125°53.682			-			☐ ☐		
149	2705	26	01:18	BE	CTD	MR	48°35.967	125°53.568	89	80	-			☐ ☐	cap was accidentally left on fluorometer	
			01:20	BO			48°35.951	125°53.534			38 - 38			☐ ☐	BOT SM	
			01:21	EN			48°35.936	125°53.499			-			☐ ☐	-USING SPARE CTD see notes	
154	2710	26	22:33	BE	NET		48°34.927	125°37.308	64	55	-			☐ ☐		
			22:34	BO			48°34.923	125°37.265			-			☐ ☐		
			22:36	EN			48°34.913	125°37.214			-			☐ ☐		
155	2710	26	22:41	BE	CTD	MR	48°34.849	125°37.025	64	55	39 - 39			☐ ☐	Bot SM	
			22:42	BO			48°34.839	125°36.996			-			☐ ☐	spare CTD	
			22:43	EN			48°34.828	125°36.961			-			☐ ☐		
			:				.	.			-			☐ ☐		

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Created big file; Batteries read 1SV

Left CTD ON all night $\rightarrow$ power $\downarrow$; ^{EVENT} tried cast (145), but data NOT good on Event 145

• Δ'd batteries but got = power failure msg.

• switched to spare CTD for Event 149 $\rightarrow$

$\rightarrow$ checked all batteries again; now we cannot connect to the CTD.

$\rightarrow$ Data that could not be downloaded = EVENTS 140, 145

$\rightarrow$ going to keep using spare CTD

$\rightarrow$ Event 149 Fluorometer cap was left on by accident; removed afterwards

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Month 7				Year 2022		Vessel Nordic Pearl				Cruise ID 2022-010					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Tms/FI Cleaned	Comments
157	2583	27	00:38	BE	NET		48°32.859	125°46.068	85	75	-		DG+	☐	
			:41	BO			48°32.844	125°46.025			-		RV	☐	
			00:42	EN			48°32.828	125°45.982			-		/	☐	
158	2583	27	00:46	B	CTD	MR	48°32.777	125°45.873	85	75	40 - 40			☐	Bot Sm
			00:48	BO			48°32.758	125°45.845			-			☐	
			00:49	EN			48°32.738	125°45.820			-			☐	
160	2460	27	02:02	BE	NET		48°31.026	125°39.817	87	75	-			☐	drifting so wire
			02:03	BO			48°31.021	125°39.804			-			☐	angle ~ 45°
			02:05	EN			48°31.001	125°39.761			-			☐	
161	2460	27	02:09	BE	CTD	MR	48°30.929	125°39.670	87	75	41 - 41			☐	Bot Sm
			02:10	BO			48°30.906	125°39.650			-			☐	
			02:11	EN			48°30.875	125°39.626			-			☐	
166	3713	27	23:11	BE	NET		48°50.990	125°28.380	85	70	-			☐	
			23:13	BO			48°50.983	125°28.366			-			☐	
			23:14	EN			48°50.969	125°28.352			-			☐	
167	3713	27	23:18	BE	CTD	MR	48°50.936	125°28.323	85	70	42 - 42			☐	Bot Sm
			23:20	BO			48°50.929	125°28.315			-			☐	
			23:21	EN			48°50.923	125°28.306			-			☐	
			:				.	.			-			☐	

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							Latitude	Longitude							
170	3960	28	02:00	BE	NET		48° 55.409	125° 37.761	100	90	-		DG+RU	☐	
			02:02	BO			48° 55.373	125° 37.756			-			☐	
			02:04	EN			48° 55.343	125° 37.768			-			☐	
171	3960	28	02:08	BE	CTD	MR	48° 55.310	125° 37.773	100	90	43 - 43			☐	Bot 5m; Domoic acid
			02:09	BO			48° 55.301	125° 37.769			-			☐	- See Note about domoic acid sample.
			02:11	EN			48° 55.295	125° 37.764			-			☐	
174	3820	28	22:37	BE	NET		48° 55.643	126° 25.156	160	150	-			☐	
			22:39	BO			48° 55.621	126° 25.146			-			☐	
			22:42	EN			48° 55.603	126° 25.128			-			☐	
175	3820	28	22:47	BE	CTD	MR	48° 55.584	126° 25.109	160	150	44 - 44			☐	BOT 5m
			22:49	BO			48° 55.577	126° 25.105			-			☐	
			22:51	EN			48° 55.570	126° 25.104			-			☐	
177	3448	29	00:38	BO	NET		48° 49.489	126° 17.732	161	150	-			☐	
			00:42	BE			48° 49.398	126° 17.708			-			☐	
			00:45	EN			48° 49.382	126° 17.659			-			☐	
178	3448	29	00:50	BO	CTD	MR	48° 49.351	126° 17.562	160	150	45 - 45			☐	Bot 5m
			00:52	BE			48° 49.332	126° 17.519			-			☐	
			00:54	EN			48° 49.317	126° 17.476			-			☐	
			:				.	.			-			☐	

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Event 171 → Domoic acid sample took exceedingly long to filter (>10 hours) ^{sample} 43a
→ kept bottle of water + filtered a second sample 43b (Δ'd stem on which it was filtered)
and that seemed to help for a bit
but still takes too long to filter
→ pump + manifold work fine for chl filtering - so not sure what the issue was

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Month <u>07</u>			Year <u>2022</u>			Vessel <u>Nordic Pearl</u>			Cruise ID <u>2022-010</u>						
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180	3201	29	02:29	BE	NET		48°44.845	126°08.276	129	115	-		DG	☐ ☐	
			02:31	BO			48°44.821	126°08.274			-		+RU	☐ ☐	
			02:33	EN			48°44.793	126°08.253			-			☐ ☐	
181	3201	29	02:39	BE	CTD	MR	48°44.745	126°08.159	129	115	46 - 46			☐ ☐	BOT 5m
			02:41	BO			48°44.735	126°08.116			-			☐ ☐	
			02:43	EN			48°44.722	126°08.068			-			☐ ☐	
186	2334	29	22:27	BE	NET		48°29.074	125°42.965	103	90	-			☐ ☐	
			22:29	BO			48°29.074	125°42.962			-			☐ ☐	
			22:30	EN			48°29.075	125°42.951			-			☐ ☐	
187	2334	29	22:34	BE	CTD	MR	48°29.074	125°42.933	103	90	47 - 47			☐ ☐	BOT 5m
			22:36	BO			48°29.069	125°42.918			-			☐ ☐	
			22:37	EN			48°29.068	125°42.901			-			☐ ☐	
189	1959	30	00:18	BE	NET		48°22.624	125°42.300	150	140	-			☐ ☐	
			00:20	BO			48°22.616	125°42.287			-			☐ ☐	
			00:23	EN			48°22.605	125°42.265			-			☐ ☐	
190	1959	30	00:28	BE	CTD	MR	48°22.576	125°42.202	150	140	48 - 48			☐ ☐	BOT 5m
			00:30	BO			48°22.562	125°42.179			-			☐ ☐	
			00:33	EN			48°22.548	125°42.155			-			☐ ☐	
			:				.	.			-			☐ ☐	

Event Type:

BOT = Bottle cast (no CTD)
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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

Notes:

Time Code:

BE = Beginning Time of Cast
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DE = Deployment Time
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RE = Recover Mooring Time

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

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July 29

CTD was left on all night - AGAIN - this time on the spare CTD

batteries > 15V; will try 1st cast today + if no data will Δ batteries; it worked so leaving for now

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>07</u>			Year <u>2022</u>		Vessel <u>Nordic Pearl</u>			Cruise ID <u>2022-010</u>							
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
192	1708	30	01:57	BE	NET		48° 18.419	125° 45.461	165	155	-		DG+RU	☐ ☐	
			01:59	BO			48° 18.383	125° 45.422			-			☐ ☐	
			02:02	EN			48° 18.352	125° 45.385			-			☐ ☐	
193	1708	30	02:06	BE	CTD	MR	48° 18.335	125° 45.338	166	155	99 - 49			☐ ☐	BOT SM
			02:09	BO			48° 18.334	125° 45.304			-			☐ ☐	
			02:12	EN			48° 18.328	125° 45.267			-			☐ ☐	
198	2465	30	15:27	BE	NET		48° 29.011	125° 21.077	147	135	-			☐ ☐	
			15:29	BO			48° 29.990	125° 21.027			-			☐ ☐	
			15:32	EN			48° 29.981	125° 20.992			-			☐ ☐	
199	2465	30	15:35	BE	CTD	MR	48° 29.989	125° 20.924	147	135	-			☐ ☐	BOT SM
			15:38	BO			48° 29.992	125° 20.879			-			☐ ☐	
			15:39	EN			48° 29.989	125° 20.846			-			☐ ☐	
201	2214	30	17:11	BE	NET		48° 26.262	125° 24.722	158	145	-			☐ ☐	
			17:13	BO			48° 26.252	125° 24.662			-			☐ ☐	
			17:16	EN			48° 26.229	125° 24.568			-			☐ ☐	
202	2214	30	17:21	BE	CTD	MR	48° 26.203	125° 24.381	159	145	-			☐ ☐	BOT SM
			17:23	BO			48° 26.186	125° 24.299			-			☐ ☐	
			17:26	EN			48° 26.166	48° 24.202			-			☐ ☐	
			:				.	.			-			☐ ☐	

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DAILY SCIENCE LOG

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Month <u>07</u>				Year <u>2022</u>			Vessel <u>Nordic Pearl</u>			Cruise ID <u>IPES 2022-10</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
204	2211	30	19:00	BE	NET		48° 25.660	125° 34.576	128	115	-			☐ ☐	
			19:02	BO			48° 25.614	125° 34.538			-			☐ ☐	
			19:05	EN			48° 25.535	125° 34.490			-			☐ ☐	
205	2211	30	19:10	BE	CTD	MR	48° 25.403	125° 34.454	130	115	-			☐ ☐	
			19:11	BO			48° 25.363	125° 34.452			-			☐ ☐	
			19:13	EN			48° 25.320	125° 34.425			-			☐ ☐	
210	2847	31	15:30	BE	NET		48° 35.470	124° 58.015	60	50	-			☐ ☐	
			15:31	BO			48° 35.463	124° 58.002			-			☐ ☐	
			15:32	EN			48° 35.459	124° 57.991			-			☐ ☐	
211	2847	31	15:36	BE	CTD	MR	48° 35.441	124° 57.924	60	50	-			☐ ☐	
			15:37	BO			48° 35.437	124° 57.908			-			☐ ☐	
			15:38	EN			48° 35.418	124° 57.873			-			☐ ☐	
213	2843	31	17:37	BE	NET		48° 35.808	125° 11.272	113	105	-			☐ ☐	
			17:39	BO			48° 35.786	125° 11.272			-			☐ ☐	
			17:41	EN			48° 35.759	125° 11.274			-			☐ ☐	
214	2843	31	17:45	BE	CTD	MR	48° 35.696	125° 11.285	113	105	-			☐ ☐	
			17:47	BO			48° 35.669	125° 11.292			-			☐ ☐	
			17:48	EN			48° 35.643	125° 11.297			-			☐ ☐	
			:				.	.			-			☐ ☐	

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