

Cruise ID: 2022-028

Station: GEO1

Event #: 1 x 2

Ship: Neocaligus

UTC Date (dd mmm yyyy): 19 May 2022

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken					Sample Lists: All Samples						Comments	
			Target	Confirmed		HPLC	Nut-F	Sal	CHL									Save sheet after printing labels:
			Pressure	✓	Pressure													
1		1	Bot-5	✓	391		x	xx									event 1 Niskin 2m above.	
2		2	0	✓		xx	xx	x	xx								event 2	
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
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20																		
21																		
22																		
23																		
24																		

Profile type: CTD/BOT

Watchkeeper(s): KY

Bottom Depth: 403

Trans Clean: ☒ N Fl. Clean: ☒ N

Par Status: On ☒ Off

Time	UTC	Local
Start #1	20:11	
Bottom #2	20:22	
End		

#1 Start

Lat: 49 ° 14.891 N

Lon: 123 ° 44.734 W

Bottom

Lat: 49 ° 14.793 N

Lon: 123 ° 44.554 W

End

Lat: ° N

Lon: ° W

Extra comments:

Water Properties Group

Program
STN List: All Stns

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2022-028 Station: GEO1 Event #: 4+5 Ship: Neocaligus UTC Date (dd mmm yyyy): 19 May 2022

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: All Samples					Comments
			Target Pressure	Confirmed Pressure	Chito	Chito									
1		3	5		xxxxxx	x				9					winch: 350m - attach bot 7
2		4	10		xxxxxx	x				100-5L					winch: 345m - attach bot 6
3		5	20	✓	xxxxxx	x				9-5L					winch: 335m - attach bot 5
4		6	50	✓	xxxxxx	x				100-5L					winch: 305m - attach bot 4
5		7	150	✓	xxxxxx	x				- - 5L					winch: 205m - attach bot 3
6		8	250	✓	xxxxxx	x				12					winch: 105m - attach bot 2
7		9	350	X	xxxxxx	x				deep					winch: 5m - attach bot 1
8															CTD = 0m. Go down 5m
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type: CTD/BOT

Watchkeeper(s): Kelly

Bottom Depth: 403

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	MR1 21:29	19:29
Bottom	MR2 21:54	
End		

MR #4

Positional Information

Lat:	49 ° 14.839	N
Lon:	123 ° 44.936	W

MR #5

Lat:	49 ° 14.626	N
Lon:	123 ° 44.98	W

Lat:	°	N
Lon:	°	W

Extra comments:

Chito

3 Niskins no wingnuts - oops - 2 casts done to get

all depths - see notes on table

Cruise ID: 2022-028

Station: 3

Event #: 7

Ship: Neocaligus

UTC Date (dd mmm yyyy): 20 May 2022

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: All Samples				Comments	
			Target	Confirmed											Save sheet after printing labels:	
			Pressure	✓ Pressure	HPLC										YES	
1		10	0		xx										event 8	
2																
3																
4																
5																
6																
7																
8																
9																
10																
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23																
24																

Profile type: CTD/BOT

Watchkeeper(s): KY LH

Bottom Depth: 323

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	01:05	19:05
Bottom	01:13	
End		

Positional Information

Lat:	49 ° 26.583	N
Lon:	124 ° 20.14	W

Start

Lat:	49 ° 26.628	N
Lon:	124 ° 20.16	W

Bottom

Lat:	°	N
Lon:	°	W

End

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: All_Samples					Comments	
			Target	Confirmed	HPLC										Save sheet after printing labels:	YES
			Pressure	✓ Pressure												
1		11	0	✓ 0	xx										1040 mL	
2															event 10	
3																
4																
5																
6																
7																
8																
9																
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22																
23																
24																

Profile type: CTD/BOT

Watchkeeper(s): KJ

Bottom Depth: 193

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	MR 14:46	
Bottom		
End		

Positional Information

Start

Lat: 49° 30.580 N

Lon: 124° 27.734 W

Bottom

Lat: ° N

Lon: ° W

End

Lat: ° N

Lon: ° W

Extra comments:

Cruise ID: 2022-028

Station: BS-11

Event #: 13

Ship: Neocaligus

UTC Date (dd mmm yyyy): 20 May 2022

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken					Sample Lists: All_Samples								Comments	
			Target	Confirmed	Pressure	HPLC	Nut-F	Lugol's	CHL										Save sheet after printing labels:	
			Pressure	✓																Pressure
1		12	0	✓		xx	x	x	xx										event 14	
2																				
3																				
4																				
5																				
6																				
7																				
8																				
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22																				
23																				
24																				

Profile type: CTD/BOT

Watchkeeper(s): KM

Bottom Depth: 60m

Trans Clean: ~~Y~~ / N Fl. Clean: Y / N

Par Status: ~~On~~ / Off

Time	UTC	Local
Start	16:52	
Bottom		
End	16:57	

Positional Information

StartLat: 49 ° 29.057 N

StartLon: 124 ° 46.051 W

BottomLat: ° N

BottomLon: ° W

EndLat: 49 ° 29.023 N

EndLon: 124 ° 46.015 W

Extra comments:

Water Properties Group

Program
STN List:

2022-028

Station:

12

Event #:

20

Ship:

Neocaligus

UTC Date (dd mmm yyyy):

20 May 2022

Niskin #

Firing #

Sample #

Rosette Operation

Target Pressure

Confirmed ☒

Pressure

Sampler's Initials / Samples Taken

HPLC

Nut-F

Lugol's

Sal

CHL

Sample Lists: All_Samples

Comments

Save sheet after printing labels: YES

1		14	Bot-5	☒	343		xx		xx									3m above CTD
2		15	0			xx	x	x	x	xx								event 21
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
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16																		
17																		
18																		
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20																		
21																		
22																		
23																		
24																		

Profile type:

CTD/BOT

Watchkeeper(s):

KY LH

Bottom Depth:

356 m

Trans. Clean:

Y / N

FI. Clean:

Y / N

Par Status:

On / Off

Time

UTC

Local

Start

20:23

Bottom end

20:39

End #21

20:40

Positional Information

Start

Lat:

49° 43.596

N

Lon:

124° 40.774

W

Bottom

Lat:

49° 43.574

N

Lon:

124° 40.781

W

End

Lat:

49° 43.547

N

Lon:

124° 43.781

W

Extra comments:

Version: 1 14-Apr-22

Cruise ID: 2022-028

Station: 12

Event #: 22 23

Ship: Neocaligus

UTC Date (dd mmm yyyy): 20 May 2022

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken				Sample Lists: All_Samples				Comments			
			Target	Confirmed	Chito	Chito										
			Pressure	✓ Pressure												
1		16	5	✓	xxxxxx	x										winch: ³⁰⁰ 345 m - attach bot 7
2		17	10	✓	xxxxxx	x										winch: ²⁹⁵ 340 m - attach bot 6
3		18	20	✓	xxxxxx	x		9.5L								✓ winch: ²⁸⁵ 250 m - attach bot 5
4		19	50	✓	xxxxxx	x		100m SL								✓ winch: ²⁵⁵ 300 m - attach bot 4
5		20	150	✓	xxxxxx	x		5L								✓ winch: ¹⁵⁵ 200 m - attach bot 3
6		21	250	✓	xxxxxx	x		1.7L								✓ winch: ⁵⁵ 100 m - attach bot 2
7		22	345 300	✓	xxxxxx	x		"deep sal" 1.7L								winch: 5m - attach bot 1
8																CTD = 0m. Go down 5m
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type: CTD/BOT

Watchkeeper(s): KY

Bottom Depth: 355 m

Trans-Clean: Y / N Fl. Clean: Y (/ N)

Par Status: On / Off

Time	UTC	Local
Start	21:16	
Bottom MR#1	21:26	
End MR2	21:38	

Positional Information

Lat:	49 ° 43.586	N
Lon:	124 ° 40.772	W

Start Bottom

Lat:	49 ° 43.604	N
Lon:	124 ° 40.759	W

End MR2

Lat:	49 ° 43.638	N
Lon:	124 ° 40.727	W

Extra comments:

Chito

CTD turned on during event 22+23+24

2 events samples 18-22 then 16-17 after

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken				Sample Lists: All_Samples								Comments	
			Target Pressure	Confirmed	Pressure	HPLC	Nut-F	Lugol's	CHL									Save sheet after printing labels:	
			√																YES
1		23	0	✓		xx	xx	x	x									event 27	
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
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16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: CTD/BOT

Watchkeeper(s): KY LH

Bottom Depth: 352

Trans Clean: ~~Y~~N FI. Clean: ~~Y~~N

Par Status: ~~On~~Off

Time

UTC

Local

Start

0:26

Bottom

End

MR

Start

Positional Information

Lat: 49 ° 40.119 N

Lon: 124 ° 16.355 W

Bottom

Lat: ° N

Lon: ° W

End

Lat: ° N

Lon: ° W

Extra comments:

Cruise ID: 2022-028

Station: 2

CTD
Event #: 33

Ship: Neocaligus

UTC Date (dd mmm yyyy): 21 May 2022

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken			Sample Lists: All_Samples										Comments
			Target	Confirmed															
			Pressure	✓	Pressure	HPLC	Nut-F	Lugol's											
1		24	0	✓	0	xx	xx	x											event 34
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
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19																			
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21																			
22																			
23																			
24																			

Profile type: CTD/BOT

Watchkeeper(s): KY

Bottom Depth: 280

Trans Clean: ~~Y~~ / N Fl. Clean: ~~Y~~ / N

Par Status: On / Off

Time	UTC	Local
Start #33	16:57	
Bottom MR 34	17:09	
End		

Positional Information

Start	Lat: 49 ° 24.139	N
	Lon: 124 ° 9.327	W

Bottom	MR	Lat: 49 ° 24.121	N
		Lon: 124 ° 9.213	W

Lat:	°	N
Lon:	°	W

Extra comments:

5L Niskin done after CTD cast

Cruise ID: 2022-028

Station: CPF1

Event #: 37

Ship: Neocaligus

UTC Date (dd|mmm|yyyy): 21 May 2022

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken		Sample Lists: All_Samples										Comments	
			Target Pressure	Confirmed ☒ Pressure		Chito	Chito										Save sheet after printing labels: ☒ final winch = 158 ☐ YES	
1		25	5	☒		xxxxxx	x		"9" SL								☒ winch: 150m - attach bot 5	
2		26	10	☒		xxxxxx	x		- SL								☒ winch: 145m - attach bot 4	
3		27	20	☒		xxxxxx	x		"10" SL								☒ winch: 135m - attach bot 3	
4		28	50			xxxxxx	x		12 1.7L								☒ winch: 105m - attach bot 2	
5		29	150			xxxxxx	x		"deep sal" 1.2L								☒ winch: 5m - attach bot 1	
6																	☒ CTD = 0m. Go down 5m	
7																		
8																		
9																		
10																		
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16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type: CTD/BOT

Watchkeeper(s): Kelly Young

Bottom Depth: 246

Trans Clean: Fl. Clean: Y

Par Status: On / Off

Time	UTC	Local
Start	18:11	
Bottom	18:17	
End	18:22	

Positional Information

StartLat: 49 ° 22.022 N

StartLon: 124 ° 5.108 N

BottomLat: 49 ° 21.986 N

BottomLon: 124 ° 5.029 N

EndLat: 49 ° 21.931 N

EndLon: 124 ° 4.956 N

Extra comments:

Chito

+ 3m for rail height at end

Cruise ID: 2022-028

Station: 27

Event #: 40

Ship: Neocaligus

UTC Date (dd mmm yyyy): 21 May 2022

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken					Sample Lists: All_Samples							Comments	
			Target Pressure	Confirmed	Pressure	HPLC	Nut-F	Lugol's	Sal	CHL									Save sheet after printing labels:
			✓																
1		230	Bot-5		333		x		xx										3m above CTD
2		31	0			xx	xx	x	x	xx									event 41
3																			
4																			
5																			
6																			
7																			
8																			
9																			
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19																			
20																			
21																			
22																			
23																			
24																			

Profile type: CTD/BOT

Watchkeeper(s): KY LH

Bottom Depth: 346

Trans Clean: Y / N Fl. Clean: (Y) N

Par Status: On / Off

Time	UTC	Local
Start	20:45	
Bottom		
End	20:54	

Positional Information

Lat: 49° 19.098 N

Lon: 123° 47.830 W

Lat: ° N

Lon: ° W

Lat: 49° 19.079 N

Lon: 123° 47.814 W

Extra comments:

Water Properties Group

**Program
STN List:**

All_Stns

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2022-028

Station: 39

CTD
Event #: 44

Ship: Neocaligus

UTC Date (dd mmm yyyy):

21 May 2022

[illegible]

Profile type:	CTD/BOT
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Watchkeeper(s): 49 LH

Bottom Depth: 376

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: ~~On~~ / Off

<i>Time</i>	<i>UTC</i>	<i>Local</i>
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Start

Bottom

End	23:05
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Positional Information

Lat: 0 N

Lon: 100.00 W

Lat: 0 N

Lon: 0 W

Lat: 49° 9.774 N

Lon: 123° 32.767 W

Extra comments:

Water Properties Group

Program
STN List: All_Stns

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2022-028 Station: 42 Event #: 51 Ship: Neocaligus UTC Date (dd mmm yyyy): 22 May 2022

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken				Sample Lists: All_Samples				Comments			
			Target Pressure	Confirmed ☒	Pressure	HPLC	Nut-F	Lugol's	CHL							Save sheet after printing labels: YES
1		33	0			xx	xx	x	xx							event 52
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
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14																
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20																
21																
22																
23																
24																

Profile type: CTD/BOT

Watchkeeper(s): KY LH

Bottom Depth: 321

Trans Clean: Y / N Fl. Clean: (Y) / N

Par Status: On / Off

Time	UTC	Local
Start		
Bottom		
End	16:07	

Positional Information

Start

Lat: ° N

Lon: ° W

Bottom

Lat: ° N

Lon: ° W

End

Lat: 49 ° 1.692 N

Lon: 123 ° 26.359 W

Extra comments:

Cruise ID: 2022-028

Station: 42

Event #: 54

Ship: Neocaligus

UTC Date (dd mmm yyyy): 22 May 2022

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken				Sample Lists: All_Samples				Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
			Target Pressure	Confirmed	Pressure	Chito	Chito																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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Profile type: CTD/BOT

Watchkeeper(s): Ky

Bottom Depth: 321 m

Trans. Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	16:40	
Bottom	16:47	
End	16:56	

Positional Information

Start

Lat: 49 ° 1.824 N

Lon: 123 ° 26.142 W

Bottom

Lat: 49 ° 1.777 N

Lon: 123 ° 26.201 W

End

Lat: 49 ° 1.743 N

Lon: 123 ° 26.267 W

Extra comments:

Chito

add 3 m @ end for rail height

2 casts, 5m sampled after

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken				Sample Lists: All_Samples								Comments
			Target Pressure	Confirmed Pressure	HPLC	Nut-F	Sal	CHL									
1		41	0	✓		xx	x										2-3m above CTD
2		42	0		xx	x	xx	x									Wmt 57
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type: CTD/BOT

Watchkeeper(s): KY LH

Bottom Depth: 180

Trans Clean: Y / N Fl. Clean: (Y) N

Par Status: On / Off

Time	UTC	Local
Start	18:39	
Bottom/mR	18:45	
End mR 57	18:50	

Positional Information

Start

Lat: 48 ° 51.404 N

Lon: 123 ° 10.839 W

Bottom/mR

Lat: 48 ° 51.378 N

Lon: 123 ° 10.764 W

End mR

Lat: 48 ° 51.352 N

Lon: 123 ° 10.705 W

Extra comments:

Water Properties Group

Program
STN List: All_Stns

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2022-028

Station: 56

CTD
Event #: 59

Ship: Neocaligus

UTC Date (dd mmm yyyy): 22 May 2022

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken		Sample Lists: All_Samples										Comments Save sheet after printing labels: YES			
			Target Pressure	Confirmed	HPLC	Nuts														
			Pressure	✓																
1		43	0	✓	xx	x													event 60	
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Version: 14-Apr-22

Profile type: CTD/BOT

Watchkeeper(s): KY LH

Bottom Depth: 214

Trans Clean: Y / N

FI. Clean: Y / N

Par Status: On / Off

Time UTC Local

Start MR 20:04

Bottom

End

Positional Information

Start

Lat: 48°46.249 N

Lon: 123°1.714 W

Bottom

Lat: ° N

Lon: ° W

End

Lat: ° N

Lon: ° W

Extra comments:

Cruise ID: 2022-028

Station: 59

CTD
Event #: 61

Ship: Neocaligus

UTC Date (dd mmm yyyy): 22 May 2022

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken			Sample Lists: All_Samples		Comments									
			Target Pressure	Confirmed ☒ Pressure	HPLC	Nut-F	CHL			Save sheet after printing labels: YES									
1		44	0		xx	xx	x			event 62.									
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
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Profile type: CTD/BOT

Watchkeeper(s): KY LH

Bottom Depth: 231 m

Trans Clean: Y / N FI. Clean: ☒ Y / N

Par Status: ☒ On / ☐ Off

Time	UTC	Local
Start	21:36	
Bottom		
End		

MP

Start

Positional Information

Lat: 48 ° 36.746 N

Lon: 123 ° 14.883 W

Bottom

Lat: ° N

Lon: ° W

End MP

Lat: 48 ° 36.759 N

Lon: 123 ° 14.819 W

Extra comments:

very clear water