

DAILY LOG

CRUISE
NUMBER

2000 26

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

AUG. 21-28, 2000

VESSEL

VECTOR

PROJECT

PELAGIC FISH

Captain: Scott Doan First Officer: Richard Slusarek
Second Officer: Miles Fowler Third Officer: —
Mission Participants / Agencies: DFC/NISERE/UNIC

Scientific Personnel: Party Chief: Rick Itterson

Name	Watch	Cabin	Name	Watch	Cabin
<u>Brian Borenfeld</u>					
<u>Arvin Kinsler</u>					
<u>Doug Anderson</u>					
<u>Andrew Dalry.</u>					
<u>Gary Wright</u>					

Second leg of Mission: Party Chief:

Name	Watch	Cabin	Name	Watch	Cabin

Data logging computer: _____
Data acquisition program: _____
CTD deck unit make: _____ model: _____ serial number: _____

Primary CTD
Make: Seabird model: 911 Plus serial number: 0550
Primary temperature sensor serial number: 2023 Calibration date: 07-Dec-99
Primary conductivity sensor serial number: 2173 Calibration date: 02-May-00
Secondary temperature sensor serial number: 2571 Calibration date: 16-Jun-99
Secondary conductivity sensor serial number: 1766 Calibration date: 28-Dec-99
Other sensors: Seapoint Fluorometer - Pumped s/n: 2228 gain setting - 15 ug/d
Other sensors: Metlabs C-Star Transmissometer s/n: 323 DR cal 20-Jul-99
Other sensors: Seapoint Fluorometer - Up-pumped s/n: 2229 gain setting - 15 ug/d
Other sensors: _____ s/n: _____

Secondary CTD
Make: Seabird model: 911 Plus serial number: 0585
Primary temperature sensor serial number: _____ Calibration date: _____
Primary conductivity sensor serial number: _____ Calibration date: _____
Secondary temperature sensor serial number: _____ Calibration date: _____
Secondary conductivity sensor serial number: _____ Calibration date: _____
Other sensors: _____ s/n: _____
Other sensors: _____ s/n: _____
Other sensors: _____ s/n: _____

Comments: _____

AUG 21/2000

1800 PDT Repair IOS. Sunny/hot.

- Problems:
- ① Bolts holding winch pulsed through plate. Phil had to re-weld 1 hour before sailing.
 - ② NEW OXYGEN PROGRAM - WE COULD NOT GET PROGRAM TO COMMUNICATE TO COLOURIMETER. Turned out the desktop was using COM ports 1 and 3 while program was set to ports 1 and 2. Tom found problem after hours of frustration. Laptops should be made compatible with system.
 - ③ MONITOR ON CTD DNS FAILED. HAD TO USE 2ND MONITOR.

AUG 22

0700 PDT CAMPBELL RIVER. HIT FOG. Fog ended just before Kelsey Bay (1000 AM)
Now overcast. Clear to south.

STATION Smø 51° 18.26' 127° 36.90

1930 PDT SRN Smø. CTD worked but bottle firing sequence didn't. BRING PROBE TO SURFACE. FIND PROBLEM.

2128 PDT: Returned to Smø. Thought fault was in Deck Unit. So changed deck units. Over period of 2 hours we replaced CMOSEL, cables, and CTD. Error was bottle firing TABLE in SEASIP software.

2200 PDT: Problems with Bottle Software. Had to reset sequence. We had ① Changed cables; ② Changed Solenoids; ③ Changed CTDs ④ changed deck unit.

— Went to SB Software Bottle Firing Sequence. Richard Power on the previous cruise had broken bottle #6 so they assigned it to Space #24. We made it sequential — AND IT WORKED!

NOTE ON Smø: DOWN FILE ON 1ST CAST = CONS# 0001
UPCAST = CONS# 0002
DOWN FILE ON 2ND CAST = CONS# 0003
UPCAST " " " " = CONS# 0004

Rosette/BOTTLES

NON ANOXIC BASINS STANDARD OXY DEPTH

0 m	1
10	2
20	3
30	4
50	5
75	6
100	7
125	8
150	9
175	10
200	11
225	12
250	13
275	14
300	15

(25m)

BOTTOM - 5m

ANOXIC BASINS

0 m

10

20

30

50

75

80

100

120

150

175

200

225

250

275

300

NOTE: The consecutive numbers differ from the file numbers for many casts. The information given under comments is correct. Consecutive #19 was used for two different casts. *El Estero*
+H34

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month 08 August			Ship VECTOR				Cruise I.D. 2000-26		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
23	Sm0	CTD	2:36	BE	1	51 18.260	127 36.98		265		1-14	14		had to stop acquisition at first bottle - didn't want to
			2:43	BO	1/2	51 18.250	127 37.03			256				fire: Problem with the
	NO Rosette			EN	2	51 18	127 36							Carousel - event aborted
11	Sm0	RO	04:39	BE	3	51 18.27	127 36.93		264		1-14	14		Repeat sh. Had to replace
	"	"	04:45	BO	3/4	51 18.26	127 37.01			255				Deck unit - Acquisition
	"	"	05:17	ED	4	51 18.11	127 37.16							stopped - some problem
11	Sm1	ROS	06:24	BE	5	51 18.779	127 30.306	OK	211		15-26	12		No problems.
			06:31	BO	5	51 18.78	127 30.30			205				
			06:45	EN	5	51 18.81	127 30.32							
11	Sm2	RO	08:00	BE	6	51 18.02	127 22.29	OK	373		27-44	18		
			08:23	BO	7	51 18.04	127 22.56			367				Problems with Rosette. Same
			08:43	EN	7	51 -	127 -							problem. Start new file (#7)
11	Sm3	RO	10:03	BE	8	51 18.52	127 14.75	OK	328		45-61	17		SYSTEM WORKING. STARTED
			10:11	BO	8	51 18.50	127 14.82			320				new display file
			10:32	EN	8	51 18.38	127 15.16							
11	Sm3A	RO	11:25	BE	9	51 19.91	127 10.81	OK	69	69	62-67	6		
			11:28	BO	9	51 19.92	127 10.82			65				
			11:34	EN	9	51 19.94	127 10.83							

Cast type:

BOT = otter cast
CTD = CTD
MOR = mooring

ROS = Rosette
NET = net haul
DRF = drifter

USW = sea water loop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end of cast time

DE = deployment time
MR = messenger release time
RE = recover mooring time

$$\frac{u^2}{r} \sim \boxed{fu}$$

$$252 \text{ sm}^0 \\ \sim 10^{-4} / \text{s}^{-1}$$

$$\frac{150 \text{ cm/s}}{1 \text{ km.}} \quad 30 u$$

$$\frac{u}{r} \gg f$$

$$\frac{u}{s} r$$



$$\frac{50}{10^5} \quad 5 \times 10^{-4}$$

$$\frac{\partial u}{\partial t} + \underbrace{u \cdot \nabla u}_{\downarrow} - f v = - \underbrace{\frac{1}{\rho} \frac{\partial p}{\partial x}}_{\downarrow} + \dots$$

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year <u>2000</u>					Month <u>08</u>			Ship <u>Vector</u>			Cruise I.D. <u>2000-26</u>			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
23	Sm4	ROS	1209	UTL	10	51 21.57	127 09.03	OK	184		68-81	14		
			1215		10	51 21.58	127 09.02			180				
			1230		10	51 21.63	127 08.99							
23	Sm5	ROS	1307		11	51 21.30	127 06.24	OK	111		82-90	9		
			1312		11	51 21.31	127 06.31							
			1326		11	51 21.32	127 06.41							
23	Sm4A	ROS	14:26	BE	12	51 21.548	127 07.158	OK	55					
			14:29	BO	12	51 21.56	127 07.14			54	91-96	6		
			14:35	EN	12	51 21.56	127 07.16							
4	Sm5	GRAVITY CORE	1520			51 21.295	127 06.249		108					GRAVITY CORE
		USE HEAVY STEEL CABLE -												2m banel
23	Sm4	FREEZE CORE	16:54		13	51 21.611	127 09.018		183				CW	freeze core
11	Sm5	FR CORE	18:58		14	51 21.320	127 06.229		110				CW	-AL
	Sm3	Norpac tow	21:55		15	51 18.494	127 14.638		323	300			CW	Norpac for M.R. may have hit bottom - didn't know how much line out - did 502 first
24	Bo2	ROS	03:35	BE	16	51 23.37	127 23.06	OK	150		111-120	10		20260013.DAT
			03:40	BO	16	51 23.39	127 22.99							
			03:52	EN	16	51 23.41	127 22.91							

Cast type:

BOT = otter cast
CTD = CTD
MOR = mooring

ROS = Rosette
NET = net haul
DRF = drifter

USW = sea water loop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end of cast time

DE = deployment time
MR = messenger release time
RE = recover mooring time

Aug 23 / 2006

NOTE: Good Freeze Cores from sites Sm 4 and Sm 5 (Smith Inlet)

Site Sm 5 had some debris flow material but good varves & water. Sediment with fine
Site Sm 4 had a thick debris flow layer under varves. Debris flow of gravel, wood debris
& shell fragments.

Mudis smelled of H_2S but water was Oxic — albeit low in O_2 .

Gravity Cores need to be DRAINED.

Freeze cores in 2 pieces — leading wedge and interface — water labels Sm 5 is on cardboard trays

→ all cores are wrapped in foil, labelled and wrapped again in plastic and kept frozen
the deployment and retrieval of all cores ~~was~~ excellent

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month 08		Ship VECTOR			Cruise I.D. 2000-26				
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
24	B01	Ro	04:38	BE	17	51 21.33	127 29.43	OK	265		97-110	14		20260014.DAT 20260015.DAT
			0445	BO	17/18	51 21.33	127 29.38			259				START NEW FILE. Bottle would NOT FIRE. WARNING FROM Software on downcast
			0506	EN	18	51 21.35	127 29.29							
24	Sm1	CTD	0609	BE	19	51 18.742	127 30.097		208					BEGIN TIME SERIES
			0618	BO	19	51 18.741	127 30.12			200				20260016.DAT
			0622	EN	19	51 18.74	127 30.13							
24	Sm1	CTD	0706	BE	19 ¹⁰¹⁹	51 18.689	127 29.998		212					20260017.DAT
			0712	BO	19	51 18.64	127 29.98			208				
			0716	EN	19	51 18.63	127 29.99							
24	Sm1	CTD	0800	BE	20	51 18.72	127 30.05		212					Data drop-out 20260018.DAT Kink in cable
			0805	BO	20	51 18.75	127 30.06							
			0808	EN	20	51 18.76	127 30.07							Considering a retransmission
24	Sm1	CTD	0913	BE	21	51 18.74	127 29.96		210			1		20260019.DAT redo cast - pumps not on - file overwrite
			0918	BO	21	51 18.74	127 29.94			200				
			0921	EN	21	51 18.73	127 29.92							
24	Sm1	CTD	0959	BE	22	51 18.69	127 30.00		214			8		Fog during cast/warm @ 15°C
			1004	BO	22	51 18.67	127 30.02			201				File 20260020.DAT
			1009	EN	22	51 18.65	127 30.03							

Cast type:

BOT = otter cast
CTD = CTD
MOR = mooring

ROS = Rosette
NET = net haul
DRF = drifter

USW = sea water loop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end of cast time

DE = deployment time
MR = messenger release time
RE = recover mooring time

Aug 24/00

0400 PDT LAST TIME SERIES CAST AT SITE SM1 — on upcast I got an "Error on Bottle" warning and when I hit "OK" a bottle fired. BOTTLE#5.

Colorimeter Problem: Doug noted that colorimeter wasn't working. Not responding to any changes in sample colour. Then we noted that light was not flashing. Checked Fibre-optic cables and connection. Replaced bulb in front of the unit. Still not working. Opened electronics box. No obvious problems. Brian wiggled threaded sleeve holding the bulb and light began flashing. Problem: light connectors make intermittent connection. OK
[Colorimeter was simply sampling through a sequence 100.0, 200.0, 50.0 — even when connectors removed].

WALK BACK TO RAPIDS: 1130 - 1200 PDT. Slack Flood turning to Lbb @ 1200.
Warm (28°C+)

Brian Brewster: 3.5 kHz Sounder 1m @ 5 knots ship speed.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month 08			Ship Vector			Cruise I.D. 2000-26			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
24	Sm1	CTD	1059	BE	23	51 18.75	127° 30.02				1-	1		Pos. WARM, Communication error. Bottle fired @ 140m
			1104	BO	23	51 18.74	127° 30.04							20260021.DAT
			1109	EN	23	51 18.74	127 30.06							
24			1140	PDT	ENTER MAK MAK TO RAPIDS AT FLOOD/EBB SLACK									
			1230	PDT	Fire & Boat drill 1230-1300 PDT									
"	Se1	RO	2015	BE	24	51 04.45	127 26.37	OK	103		122-129	8		Better sampler trace. 20260022.DAT
			2019	BO	24	51 04.45	127 26.37			100				STEAM @ 5 knots for
			2026	EN	24	51 04.48	127 26.41							BRIDGE 35 kHz sounding
	Se2	RO	2059	BE	25	51 03.52	127 23.55	OK	95					
			2103	BO	25	51 03.53	127 23.57			92	130-137	8		HIT Bottom @ 92m going dead slow.
			2109	EN	25	51 03.53	127 23.59							20260023.DAT
"	Se2A	CTD	2148	BE	26	51 02.26	127 19.95		71					
			2151	BO	26	51 02.25	127 19.95			65				20260024.DAT
			2153	EN	26	51 02.24	127 19.95							
24	Se3	CTD	2236	BE	27	51 02.85	127 15.55		435					AIR T° = 18.4°C
	Rosette failed		2246	BO	27/28	51 02.86	127 15.52			438	138-154	1		PROGRAM SAYS ALL BOTTLES FIRED. HAD NO CHOICE BUT TO START AGAIN!
			2252	EN	28	51 02.88	127 15.46		F16	20260026.DAT				2026 0025 .DAT 2026 0026 .DAT

Cast type:

BOT = otter cast
CTD = CTD
MOR = mooring

ROS = Rosette
NET = net haul
DRF = drifter

USW = sea water loop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end of cast time

DE = deployment time
MR = messenger release time
RE = recover mooring time

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month 08			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
24	Se 3	RO	2259	BE	29	51°02.88	127 15.45	OK	449		138-154	17		2ND CAST AT THU. SITE. BOTTLES DID NOT
			2308	BO	"	51°02.90	127 15.42			440				FIRE!! WORKED WITH
			2330	EN	"	51 02.91	127 15.32							20260027.DAT NO PROBLEMS.
25	Se 4	RO	0033	BE	30	51 03.14	127 07.99	OK	535		155-172	18		FILE 20260028.DAT
			0044	BO	"	51 03.15	127 07.93			535				SPLINITIES @ 500, 400
			0108	EN	"	51 03.12	127 07.76							250 and 175m
25	Se 5	RO	0208	BE	31	51 04.31	127 00.63	OK	616		173-192	20		20260029.DAT
			0224	BO	"	51 04.31	127 04.48			60				
				EN	"									
25	Se 6	ROS	0403	BE	32	51 04.29	126 52.48	OK	539					20260030.DAT
			0414	BO	"	51 04.27	126 52.44			533	193-211	19		
			0440	EN	"	51 04.27	126 52.40							
25	Se 6A	CTD	0541	BE	33	51 05.35	126 46.13		245					20260031.DAT
			0547	BO	33	51 05.34	126 46.14			242				
			0552	EN	33	51 05.34	126 46.13							
25	Se 7	ROS	0615	BE	34	51 05.99	126 45.04	OK	274		212-225	14		20260032.DAT
			0621	BO	34	51 05.98	126 45.04			287				20260034.DAT
			0636	EN	34	51 05.97	126 45.05							

Cast type:

BOT = otter cast
CTD = CTD
MOR = mooring

ROS = Rosette
NET = net haul
DRF = drifter

USW = sea water loop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end of cast time

DE = deployment time
MR = messenger release time
RE = recover mooring time

STN FrS2: Fredrick Sand

H_2S in samples from 190, 175 & 150m depth

Sharp turbidity feature with core around 140m depth -

Manganese Oxide layer? Drop of 10% in transmissivity -

STN FrS1: H_2S in samples at 150m and deeper. Could tell that there was more H_2S in deeper samples than at 150m - the last depth with H_2S ..

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month AUG.			Ship VECTOR				Cruise I.D. 2000-24		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
25	SE 7.5	ROS	0731	BE	35	51 08.07	126 41.55	OK	373		226-242	17		FOG, T increases below 120m.
		"	0740	BO	35	51 08.05	126 41.56			360				20260035.DAT
		"	0804	EN	35	51 08.00	126 41.48							4ppt 15°C at Surface.
25	SE 8	ROS	0854	BE	36	51 10.93	126 39.46	OK	142		243-250	8		Near Seymour River delta
			0859	BO	36	51° 10.90	126° 39.45			135				20260036.DAT
			0907	EN	36	51 10.85	126 39.45							
25	Fr S 2	ROS	1130	BE	37	51° 00.49	126° 42.29	OK	210		251-262	11		major % @ 150m 150m bottle near core. 125m bottle is at top of feature. Top of anoxic layer?
			1136	BO	37	51 00.49	126 42.31			203				
			1150	EN	37	51 00.49	126 42.40							
25	Fr S 0	ROS	1253	BE	38	51° 03.68	126° 44.42	OK	169		275-282	8		Reel @ 148
			1257	BO	38	51 03.68	126 44.41			160				
			1306	EN	38	51 03.70	126 44.34							
25	Fr S 1	ROS	1346	BE	39	51° 02.30	126° 42.96	OK	241		263-274	12		File 20260039.dat
				BO	39/41	51 02.34	126 42.92			235				Coring site/NO 0040
			1418	EN	41	51 02.34	126 42.91							File 20260041.dat
25	Fr S 1	GRAVITY CORE	15:08		42	51 02.29	126 42.92		241					
25	Fr S 1	Freeze Core	15:08		43	51 02.29	126 42.92		241	241				Excellent core in 240m. However, we cracked the end of the core.

Cast type:

BOT = otter cast
CTD = CTD
MOR = mooring

ROS = Rosette
NET = net haul
DRF = drifter

USW = sea water loop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end of cast time

DE = deployment time
MR = messenger release time
RE = recover mooring time

Fr S 1: Had to reboot computer; bottle fire failed. Tried with File 20260040.dat; then tried yet another file = 20260041.dat. File 20260040.dat is a null file.

FrS1 Freeze Core.

241m $\rightarrow$ pushing the depth maximum needed to spool out extra cable
deployment and retrieval = excellent work

Excellent core - well varied, good depth penetration.

Core in 3 parts; interface.
most of middle.
bottom



$\rightarrow$ bottom has 2 pieces - the front liner face and
the counterpart on the back face - the back face is thicker

On tray

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year	2000				Month	08		Ship VECTOR				Cruise I.D. 2000-26			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments	
25	Belize Inlet	Soundings line			35	k/2. started around		130	POT		just past Nakavato Rapids.				
25	ALS1	RO	2258	BE	44	51 10.12	127 5.34		154					File: 20260042.DAT	
			2302	BO		51 10.12	127 5.34	OK		151	283-292	10		HIT BOTTOM/lead	
			2314	EN		51 10.11	127 5.40							slow	
26	ALS1	GRAVITY core	2337			51 10.062	127 05.434		154		Lots of oxygen in the water but the mud was highly anoxic. Corer penetrated up to weights				
26	Be7	ROS	0318	BE	45	51 06.26	126 55.82		260						
		"	0324	BO	"	51 06.23	126 55.80	OK		267	293-306	14			
		"	0340	EN	"	51 06.23	126 55.61								
26	Be6	ROS	0422	BE	46	51 06.55	127 02.11	OK	332						
		"	0432	BO	"	51 06.56	127 02.13			326	307-322	16			
		"	0449	EN	"	51 06.55	127 02.07								
26	Be5	ROS	0614	BE	47	51 07.17	127 08.82	OK	285						
		"	0620	BO	"	51 07.16	127 08.88			280	323-337	14			
		"	0634	EN	"	51 07.15	127 08.94								
26	Be4	ROS	0722	BE	48	51 07.80	127 15.31	OK	374		338-355	18			
		ROS	0731	BO	48	51 07.80	127 15.21			370					
		ROS	0754	EN	48	51 07.79	127 14.94								

Cast type:

BOT = otter cast
CTD = CTD
MOR = mooring

ROS = Rosette
NET = net haul
DRF = drifter

USW = sea water loop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end of cast time

DE = deployment time
MR = messenger release time
RE = recover mooring time

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month	Ship					Cruise I.D.			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
26	Be 3	ROS	0839	BE	49	51 7.85	127 22.12	OK	283		356-370	15		
			0846	BO		51 7.84	127 22.11			275				
			0903	EN		51 7.84	127 22.05							
26	Be 2	ROS	1002	BE	50	51 7.89	127 30.44	OK	194		371-381	11		
			1008	BO		51 7.89	127 30.47			190				
			1019	EN		51 7.92	127 30.49							
26	Be 1	ROS	1126	BE	51	51 7.73	127 34.31	OK	225		382-394	13		Flg: 20260051 dat
			1133	BO		51 7.71	127 34.33			220				
			1145	EN		51 7.68	127 34.40							
	Proceed to CARING SITE					51 07.90	127 20.6	based on 3.5 kHz sounding						
26		Gravity core	1300						278					
26	near Be 2	Freeze core	1321	—		51 07.883	127 20 281		278					on bottom @ 1525
	Freeze core was 2 cables to east of gravity core. Freeze core patched using epoxy.													
	PDT													
	NAKWA TO RAPIDS @ 0830. Quite calm. Easy sail													
	Seymour Narrows @ 2100 PDT.													

Cast type:

BOT = otter cast
CTD = CTD
MOR = mooring

ROS = Rosette
NET = net haul
DRF = drifter

USW = sea water loop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end of cast time

DE = deployment time
MR = messenger release time
RE = recover mooring time

Freeze core close to Be2

274m ← likely ~~to~~ deep

deployment was good but retrieval a little slow coming up.

The core was in reasonable shape but had experienced considerable melt and was thin (but it slid off in one intact piece)

- there was shelly material interspersed throughout → no obvious varves