

DAILY LOG

CRUISE
NUMBER

2002-10

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

APRIL 15-29, 2002

VESSEL

VECTOR

PROJECT

IOS / CFCA S

Captain: GLEN First Officer: STAN
Second Officer: AL Third Officer: _____
Mission Participants / Agencies: Rob White / Jeff + Brad
Bruce + Craig

Scientific Personnel: Party Chief: _____

Name	Watch	Cabin	Name	Watch	Cabin
<u>Rick Thompson</u>	<u>-</u>	<u>A</u>			
<u>TIM PATTERSON</u>					
<u>EDWARD REINHARDT</u>					
<u>AUDREY DRUMORE</u>					
<u>HELEN ROE</u>					
<u>DAVID SPEAR (1)</u>					
<u>BERNARD MUNKLEY (1)</u>					
<u>KIM CONWAY (2)</u>					
<u>BOB MACDONALD (2)</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: _____ model: _____ serial number: _____
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: _____
Other sensors: _____ s/n: _____

Secondary CTD

Make: _____ model: _____ serial number: _____
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: _____

April 15: Spent the day loading at 1600g

Shup began static load test of standard A-frame
using OISTONs for 10 minutes⁺. Had to return to
Anchorage for medication for Helen Roe.

APRIL 16: 0930 PDT departure. Cold / windy.
Winter-like temp.

" 2100 PDT STATION 23 for Dome in
Seymour Narrows. Cold but clear, CTD only.

SEP 2 - Smith-Mac grab bucket's full
on recovery.

SEP 3 - obtained a good Smith-Mac sample
on 2nd try.

SEP 4 - Tried Smith-Mac with no success
— Probably lost sample on way up

Next Smith-Mac will be @ station SE 64

SE03 - Narrow sack, debris slow material? (NO digital photo)

*SE03 grab - bucket full.
- took sediment A, B, C, D, E,
* cookie cutter

Small debris sack from logging to A.

April 19/AM (Depart/Fog)

Tim, Ed, Helen discharged at 0700 PDT
for site 26 off Woods Lagoon (South of CTD
STATION Se2A). Raft + gear ferried to shore
using Hurricane

Rupare Mooring FS1

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Year 2002					Month 04		Ship Vector				Cruise I.D. 2002-10			
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
17	SE03	ROS	2340	BE	9	51 02.81	127 15.40		425	465	38-56	19		HVC Bottom ?!
				EN		51 02	127 14.							Ed bot/kst 1, 9, 19.
18	SE03	Grab	2430		10				457					(Sed, oib, oib & veggie + 4 bags) Took 2 tries
18	SE04	ROS	0220	BE	11	51 3.18	127 7.94		555	549	57-74	18.		Ed: Bot 1, 7, 18 Miscast but 50m
				EN		51 3.24	127 6.67							lowered to 50 m then back up to restart cast.
18	SE04	Grab	0337	EN	12	51 3 26	127 6.54		555					Miscast no sample. - too deep.
														Ed: Bot 1, 7, 19
18	SE05	ROS	0426	BE	13	51 04.28	127 0.61		622	611	75-93	19		Pick up TP from lake.
			0501	EN		51 04.36	127 0.06							Deepest cast in inlet
18	SE06	ROS	0534	BE	14	51 04.28	126 52.38		540	532	94-111	18		5 m ab.
			0604	EN		51 04.21	126 52.17							Ed: Bot 1, 9, 18
	END FOR NIGHT. To Resume CTDs AFTER MOORING FREDERICK SOUND													
18	FS1	MOORING	1120	PDT		Deploy Frederick Sound Mooring @ 219 m inside, on sill slope.								
	Sunny / clear but cool													
18	FRS3	ROS	1912	BE	15	50 59.91	126 43.65		62	57	112-118	7		cleaned trans.
			1920	N		50 59.93	126 43.61							Ed: Bot 1, 4, 7.
18	FRS3	GRAB			16									Sed o, b, c, d, e, USGS, F&M corals, crust.

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61, 8 full grab.

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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
18	FRS 2	ROS	1950	BE	17	51°00.540	126°42.212		211	207	119-130	12		NOT ANOXIC Ed: Bot 1, 6, 12
			2008	EN		51°00.58	126°42.26							
18	FRS 2	GRAB	2012		18	51°00.58	126°42.26							1/2 FULL Seds: a, b, c, d, e, USGS cookie; BIO (20 things only)
18	FRS 1	ROS	2047	BE	19	51°02.30	126°42.99		245	236	131-144	14		Ed: Bot: 1, 7, 14
			2105	EN		51°02.23	126°42.95							
18	FRS 1	GRAB	2120	BE	20	51°02.21	126°42.95		245					FULL cookie, BIO
18	FRS 0	ROS	2149	BE	21	51°03.800	126°44.605		159		145-154	10		Seds: a, b, c, d, e, USGS Ed: Bot = 1, 5, 10.
			2201	EN		51°03.75	126°44.49			154				
18	FRS 0	GRAB	2205	BE	22	51°03.75	126°44.49							1/2 full / sand / gravel SMITH MAC Seds: a, b, c, d, e, cookie, USGS BIO.
		MUD												
18	SE6A	ROS	2236	BE	23	51°05.44	126°46.11		234	227				No Bottles.
			2245	EN		51°05.47	126°46.11							
18	SE6A	GRAB	2255		24	51°05.494	126°46.125		221					Failed. No Sample.
18	SE 07	ROS	2312	BE	25	51°06.040	126°44.951		248	246	155-167	13.		
			2331	EN		51°06.145	126°44.742							Ed: Bot: 1, 6, 13
18	SE 07	GRAB	2340	BE	26	51°06.195	126°44.631							Seds: A, B, C, D, E, cookie USGS, BIO (Full)
19	SE 7A	ROS	0004	BE	27	51°08.173	126°41.493		374	365	168-183			Ed: Bot: 1, 8, 16
			0031	EN		51°08.355	126°41.282							
19	SE 7A	GRAB			28									3/4 Full Seds: a, b, c, d, e, cookie, USGS

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SE08 Grab - Sand/close to river

- * - Much wood debris
- 92 worm/coral
- old logging camp on shore

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Year 2002					Month 04			Ship Vector			Cruise I.D. 2002-16			
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
19	SE08	ROS	01:13		29	51 10.894	126 39.538		145	137	184-192	7.		BOAT OFF TO GO
			01:25			51 11.049	126 39.519							Tim et al. Ed: Bot, 1, 5, 9.
19	SE08	Grab	01:35		30.	51 11.049	126 39.519		145					3/4 FULL - 80ml Seds: a, b, c, d, e, USGS, Seach.
19	AS01	MOOR	1737	UTC	31	51 10.101	127 06.024		154	RCM	8 @ 20 m; RCM 11 @ 20 m ab			
			MOORING designed for 150 m. SEACATS @ 75 m ab, 35 m ab.											
19	AS03	ROS	1830	BE	32	51 10.026	126 56.787		135	131	193-201	9		cleaned turn.
			1843	EN		51 10.02	126 56.79							Ed Bot: 1, 4, 9
19	AS03	GRAB	1915	BE	33	51 10.02	126 56.79		135					Sed. a, b, c, d, e, USGS, culture culture
19	AS02	ROS	1938	BE	34	51 10.189	*126 02.475		135		202-209	8		Longitude Should be 1270
			1948	EN		51 10.161	*126 02.484							
19	AS02	GRAB	1950		35	51 10.16	*126 02.48		135					
19	AS01	ROS	2014	BE	36	51 10.097	*126 05.223		152	148	210-218	9.		Ed Bot: 1, 5, 9
			2027	EN		51 10.058	*126 05.236							
19	AS01	GRAB	2030		37	51 10.005	127 05.132							Seds: A, B, C, D, E, USGS, BIO
19	Be07	ROS	2202	BE	38	51 06.305	126 55.718		245	238				Ed Bot: 1, 6, 14
			2223	EN		51 06.304	126 55.635							
19	Be07	Mud			39	51 06.5	126 02							*Seds: A, B, C, D, E, USGS, COOLIP, BIO

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* The positions appear to be wrong. GPS pos^{ns} in cast files 127° not 126°.

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Year <i>2002</i>					Month <i>April</i>			Ship <i>Nector</i>				Cruise I.D. <i>2002-10</i>		
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
19	BE06	ROS	2305	BE	40	51 06.569	127 02.138		329	327	233-246	14		Ed Bot. 1, 6, 14
			2330	EN		51 06.640	127 01.670							
19	BE06	MUD	2340	BE	41	51 06.614	127 01.345							Did not trip but ^{BIG} only caught worms.
20	BE05	ROS	0021	BE	42	51 07.158	127 08.514		276	266	247-258			Ed Bot. 1, 7, 14
			0041	EN	"	51 07.100	127 08.816							Break off to get TIR
20	BE05	MUD	0050	BE	43	51 07.100	127 08.816							Seds: A, B, C, D, E, Cookie, USGS, BIO
20	BE01	ROS	0246	BE	44	51 07.767	127 34.228		221	200	259-269			Why the 100m 18A?
			0306	EN		51 07.740	127 33.798							ED Bot. 1, 11, 14
20	BE01	ROS	0314		45	51 07.793	127 34.194		225 (old)					Seds: A, B, C, D, E, USGS, BIO, FULL
20	BE02	ROS	0347	BE	46	51 07.916	127 30.452		190					ED Bot. 1, 5, 11
			0405	EN		51 07.944	127 30.376							
20	BE02	MUD	0410		47	51 07.944	127 30.376		190					Seds: A, B, C, D, E, cookie
20	BE03	ROS	0447	BE	48	51 07.852	127 22.183		290	271				USGS, BIO
			0508	EN		51 07.785	127 21.948							Ed Bot. 1, 7, 14
20	BE03	MUD	0518		49	51 07.785	127 21.948							Seds: A, B, C, D, E, cookie
20	BE04	CTD	0606		50	51 07.804	127 15.372		376	371				2 attempts
			0621		"	51 07.776	127 15.305							Seds: A, B, C, D, E, cookie
														USGS, BIO

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21	Se2A	CTD	0200		51	51 02.205	127 20.000		96	96				START TIME SERIES
		TS1				51 02.202	127 20.024							
21	Se2A	CTD	0308		52	51 02.166	127 20.141		150	97				
		TS2				51 02.170	127 20.109							
21	Se2A	CTD	0358		53	51 02.168	127 19.988		103					
		TS3	0403			" 02.172	" 20.103							
21	Se2A	CTD	0457		54	51 02.172	127 20.188		100					
		TS4	0501			51 02.202	127 20.320							
21	Se2A	CTD	0605		55	51 02.184	127 19.989		101	96				
		TS5				51 02.211	127 20.225							
22	FRS	FREEZE	1627		56	51 03 36	126 44 06		179					7057 Loaded with 24165 delivered to 250m
		FREEZE	1651			51 03 36	126 44 06							VEC02A001
22	FRS	FREEZE	1819		57	51 02 67	126 41 58		161					48C Temp - 20165 VEC02A002
			1846											2m - 2 pieces, 113
23	FRS	Piston	2005		58	51 02 24	126 43 01		245					VEC02A003 Gas on recovery
		Core			301	FR	Core, almost full.							
22	FRS	-												

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all ending top of next page
49 foot core!! just north of "5" in Frederick Sound. Complete @ 1900 PDT.
W and up! 010

Vaugh's Barren - memo of core locations.

85.6
15.1
95.1
15.1
0.7

1. 51 08 05' N 127 07.45' W

2. 51 03 31' N 127 23.0' W

3. 51 04 00' N 127 24.85' W

4. 51 05 45' N 127 25.78' W
(or 3.5 for this location)

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Year	2002				Month	04				Ship					vector					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								
22	~ FIRST (last N of 'S in F-Sound)	Piston core	5537		59	51 01.83	126 42.94			240						Gas on recovery 8 sections - 10/100 depth b/w 1.25 cooling 1.25 10cm b/w 4-8. (see OSC log)								
22	BOAT	Array	at 0700 to start sites & middle																					
22	ALS1	Freez Core	1529		60	51 10.285	127 05.61			125						URG CORR - 20/100/ce VECO2A05								
			1601																					
22	ALS3	Freez core	1729		61	51 09.987	126 56.85			133						URG CORR - 20/100/ce VECO2A06								
		uncorr	1800																					
22	ALS3	Piston	1927		62	51 09.99	126 56.74			132						URG ON RECOVERY VECO2A07								
		uncorr	1942																					
22	Entrance to Hirsch	Piston	2133		63	51 08.05	127 07.51			63						URG shows good cont difficult - mud at base only reflects 20 years? VECO2A08/VB priority #2. (VB memo core #1)								
	recovery -		2138																					
23	Beq4	CTD	0001		64	51 07.838	127 15.445				395	180				drifted to NW toward shore, wind!								
		TS	0008			51 07.955	127 15.645																	
23	Beq4	CTD	0053		65	51 07.836	127 15.460				393	357				Kept on station.								
		TS	0107			07.796	127 15.515									Wind from west.								
23	Beq4	CTD	0153		66	51 07.829	127 15.279				372	367				Kept on str.								
		TS	0207			07.859	15.290																	

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MOP

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End slide: 51 02 89
Leyman-W 127 13 89

U shaw SEDS ribbon core site, almost 20' (2010)
show simultaneous failures

WIND came up to 20-30 knots each day
around 1400 L and peaked around
dinner time. Dred off at night.

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Year		2002		vcc		Month		april		Ship				Vector				Cruise I.D.			2002-10	
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	Beø4	CTD	0319		67	51 07.766	127 15.378		366	370	Failure of 1 cond.			Smab								
		TS	0331		Had computer / file / instrument problems, Sensor									2nd flood.								
23	Beø4	CTD	0426		68	51 07.794	127 15.376		370	367				Greased CTD plug								
		TS	0437			51 07.800	127 15.462							Fixed All problems!								
23	Inshore to Sigsbee	Piston	1533		69	51 03.296	127 23.021		88					VB#1 (Priority) (memo #2)								
		recovery	1538						118					VECO2A09								
23	Inshore to Sigsbee	Piston	1708		70	51 03.969	127 24.882		118					VB#3 (memo #3)								
		recovery	1714											VEC02A10								
23	SEø5	piston	1958		71	51 04.289	127 00.853		618					VEC02A11								
	recovery	—	2035																			
23	To show No gravity	gravity	2239			51 04.916	127 01.153		50 Sounder 77 on winch		No sample			VEC02A12								
					Proceded to Mereworth Sound. 1 Free core of O2 left.																	
24	MES1	CTD	0148	BE	72	51 08.850	127 24.790		82	—												
			0150	EN		51 08.854	127 24.784															
24	MES2	CTD	0206	BE	73	51 09.923	127 25.145		89	87				Sitund be MES2 MAY HAVE WRONG STATION NAME								
			0209	EN																		
24	MES3	CTD	0228	BE	74	51 11.572	127 24.923		84	—												
			0232	EN		51 11.60	127 24.69															

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24	MES4	CTD	0256		75	51 11.850	127 21.117		164	164				Bottom
			0302			11.810	21.025							
24	MES5	CTD	0827		76	51 11.826	127 16.330		129	121				
	Anchor in Newmarket Sound, eastern end @ 2000.													
24	Sounding 3.5 kHz line in the eastern basin													
24	MES6	CTD	1543		77	51 11.422	127 18.364		149					USC Fringe Corp. bottle weld, Dole bio layer and
24	MES5	Piston	1722		78	51 11.405	127 11.365		149					Core up to length of wire
		recovering	1729											
24	MES2A	CTD	1950		79	51 07.743	127 25.572		224	220				Bottom Time Sectors
		TS	2000			.722	.807							
24	MES2A	CTD	2055		80	51 07.752	127 25.338		217	217				
		TS	2103			07.721	25.469							
24	MES2A	CTD	2203		81	51 07.869	127 25.552		223	222				
		TS	2211			07.768	25.589							
24	MES2A	CTD	2251		82	51 07.779	127 25.532		222	219				
		TS	2260			07.783	25.508							
24	MES2A	CTD	2355		83	51 07.788	127 25.575		221	221				
		TS				51 07.79	127 25.59							

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