

DAILY LOG BOOK

MISSION
NUMBER

2002 - 33
2002 - 34
2002 - 42

DATE:

VESSEL:

PROJECT:

From:	Sep. 13 - 15, 2002	Vector	} 3 Mooring Cruises.
	Sep. 24 - 30, 2002	Tully	
	Nov. 3 - 6, 2002	Tully	
Covariability, La Perouse, Effingham			
Juan de Fuca			

INSTITUTE OF OCEAN SCIENCES
OCEAN SCIENCES AND PRODUCTIVITY DIVISION
SIDNEY, BC, CANADA

Captain: Scot Doan First Officer: Mike
Second Officer: Steve Third Officer: _____

Mission Participants / Agencies: O.S.A.P. Div. 10.5.

Scientific Personnel:		Party Chief:	
Name	Watch	Cabin	Name
			Tom Subisz

[illegible]

Second leg of Mission:	Party Chief: _____		
Name	Watch	Cabin	Name
	Watch	Cabin	Watch Cabin

Data logging computer: F502

Data acquisition program: Seabird
CTD deck unit make: SBE model: 11 serial number: 0508

Primary CTD

Make: Seabird model: 911 serial number: 0550

Primary temperature serial number: 0302371

Primary conductivity serial number: 042399

Secondary temperature serial number: 03P2663

Secondary conductivity serial number: 045424

Transmissometer:

Transmissometer: _____ Model: Seach s/n: 498-DR

Oxygen sensor:	Model:	s/n:

PAR sensor: _____ Model: L1C01 s/n: 4601

Other sensors: Pincer - XT6000 s/n: Z411638

	s/n:
Other sensors:	100000

Other sensors: 2x DUB 7.5T - 1x500M s/n: 052462

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number:

Primary conductivity serial number:

Secondary temperature serial number: _____

Secondary conductivity serial number:

Transmissometer: _____ s/n: _____
Model: _____

Fluorometer: Model _____ Cable gain: _____ s/n: _____

Oxygen sensor: _____ Model: _____ s/n: _____

PAR sensor: _____ Model: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

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

Date Time PDT

Cruise 2002-33 Sep. 13-15, 2002 CCGS V

Sep. 13

0930 - 1300

loading + winch change + setup intend to sail 1300

1315 - depart I.O.S. for SGO1-CV-B for recovery.

- sunny clear day - calm.

- we have routine safety talk.

1545 - on station SGO1-CV-B for recovery.

- sent XPD 428, 431 m range

- sent ACDE received positive response

1547 - sighted on surface.

- vane 444 and acoustic release showed light wire cut marks

- setting up for deployment.

2052 - deployed SGO1-CV-C in 190 m water on sounder
at $48^{\circ}46.236'$ $123^{\circ}02.918'$

2100 - head for Jarvis Inlet.

Date Time PDT

Additional comments

- | Date | Time PDT | Additional comments |
|---------|----------|---|
| Sep. 14 | 0700 | - on station JI01-CV-B
- range, 397, 399 - too close moving away.
- 2 cables off range 576, 580 |
| | 0705 | - 592m - sending 'ABCH' - received positive response. |
| | 0708 | - entire mooring surfaced.
- #3501, #6176 and #6462 had hydroid growth sufficient to impede rotor on 6176 + 6462
- clean up + set up for redeployment |
| | 0952 | - launched JI01-CV-C in 350m depth at position
49° 45.185' 124° 14.178'
- head for SG03 |
| | 1309 | - on station SG03-CV-B for recovery.
- no good range
- 558, 543, 536, 531, 535, 533, 530, 517, 520, 525, 530 |
| | 1316 | - sent 'ABCF' received positive response
- sighted on surface.
- recover + clean up - heavy hydroid growth on bottom instrument |

Date Time PDT

Sep. 14 1614 - launched SG03-CV-C in 409m water
at position $49^{\circ}17.002'$ $123^{\circ}48.088'$
- head to Van for fueling.
- called Shannon several times without success during course of day
- left messages.

1900 - at Chevron fueling jetty
1925 - successfully contacted Shannon.

Rob's cell - 418 5722

Lucas' cell - 727-3032

Sep. 15 0700 - picked up Shannon Harris @ West Van
- $\frac{1}{2}$ hour delay because commissionaire not there to open gate.

0935 - on station SG02-CV-B for recovery.
- sent BDH
- range 337, 337

0938 - sent BCDH received positive response
- sighted on surface.

Vemco 6539 - No Data on instrument - was not set up.

Date Time PDT

- Sep. 15 1000 app - 0940-1000 complete near bottom hydro cast for UBC.
- 1000 - headed back to W. Van. to drop Shannon off with equipment.
- cleaning up mooring
- 1200 - Shannon loaded
- we head to redeploy mooring preparing enroute.
- 1526 - deployed mooring SG02-CU-C in 272m water
at $49^{\circ} 01.479'$ $123^{\circ} 23.888'$
- 1530 - head for I.O.S. - packing up enroute
- offload into trucks for loading on Tully Sep. 16.

Cruise 2002-34 Sep. 24-29, 2002

Additional comments

<u>Date</u>	<u>Time</u>	<u>PDT</u>	
Sep. 24	0900	- Tully arrives in Port Alberni	
		- Ecology crew pack up	
	1200	- radar technicians arrive to repair radar	- there were continued problems during 2002-32 cruise
	1230	- 2 trucks arrive c/w.	- Jane Eert, Audrey Dallimore, Mary Thiess, Cindy Wright.
			- Rob Reed, Melanie Queeneville, Brett Gilchrist.
			- ADCP, WHADCP cables, more releases.
	1330	- Doug Yelland, Tawnya Peterson, Rachelle Provencal, Steve Romaine, Ken Morgan depart Tully with personal gear	
	1530	- Tully departs for Effingham Inlet.	

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month SEPT					Year 2002			Ship Tully				Cruise ID 2002-34		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
25	EFF 2	0153	CTD/R	BE	001	49°04.98	125°10.32			1-6	6			
		0156		BO		49°04.98	125°10.32							
		0201		EN		49°04.98	125°10.32							
	EFF 3	0222	CTD/R	BE	002	49°04.25	125°09.44							
		0224		BO		49°04.25	125°09.44			7-16	10			
		0235		EN		49°04'06	125°09.41							
	EFF 4	0302	CTD/R	BE	003	49°02.97	125°08.66							
		0305		BO		49°02.98	125°08.65	92	80	17-23	7	JE		
		0312		EN		49°02.97	125°08.62							
25	EFF 5	0328	ROS	BE	004	49°02.56	125°09.10	204	187	24-36	13	JE		Melanic depths.
		0332		BO		49°02.55	125°09.12							
		0348		EN		0252	09.13							
	EFF 6	0413	ROS	BE	005	49°01.77	125°09.17	148	140	37-45	9	JE		
		0417		BO		49°01.78	125°09.17							
		0428		EN		49°01.75	125°09.18							
	EFF 7	0451	ROS	BE	006	49°01.26	125°09.37	120	102	46-53	8	JE		Bottle 1 leaked, but
		0454		BO		49°01.25	125°09.38							Bottle 2 also at 102m.
		0502		EN		49°01.23	125°09.36							Broke oxy flask # 1357 (stopper)

Cast type: BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
• US = up / stop
• UN = up / no stop
• DN = down / no stop

Time Code
• BE = beginning time of cast
• BO = bottom time of cast
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DE = deployment time
MR = messenger release time
RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

22 March 2002
Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month SEPT					Year 2002			Ship TULLY				Cruise ID 2002-34		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
25	EFF8	0519	ROS	BE	007	49° 0.66	125° 10.18	86	75	54-60	7			2 bottles at bottom.
		0521		BO		49° 0.64	125° 10.20							
		0527		EN		49° 0.64	125° 10.21							
	EFF9	0544	ROS	BE	008	49° 0.12'	125° 10.79'	65	55	61-65	5			
		0546		BO		49° 0.12'	125° 10.80'							
		0550		EN		49° 0.09'	125° 10.83'							
	EFF10	0608	ROS	BE	009	48° 59.85'	125° 11.17'	86	80	66-73	8			Melanie depths.
		0610		BO		48° 59.85'	125° 11.17'							
		0616		EN		48° 59.83'	125° 11.18'							
	EFF11	0633	ROS	BE	010	48° 59.10'	125° 11.10'	83	78	74-79	6			
		0635		BO		48° 59.09'	125° 11.08'							
		0641		EN		48° 59.09'	125° 11.05'							
	EFF12	0704	ROS	BE	011	48° 58.00	125° 10.46	92						
		0709		BO		48° 58.00	125° 10.47		83	80-86	7			
		0715		EN		48° 57.99	125° 10.48							
	EFF13	0736	ROS	BE	012	48° 56.49	125° 10.69	104	104	87-94	8			
		0739		BO		48° 56.50	125° 10.66							
		0747		EN		48° 56.49	125° 10.71							
	EFF, inner.	0906	core		013	49° 04.30	125° 09.38	119.				CYST EXILED		Location is 15m N of TUL99B03 location

Cast type:
BOT = bottle cast, no CTD
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Additional comments

→ Box core attempt

→ wires from box core array became entangled

- 150 lbs dry ice added to alcohol bath with 50 gal alcohol in double welded drum.

* NOTE: fire stations alert necessary for crew, chained and grounded fuel pump necessary to transfer alcohol

DAILY LOG

Ocean Sciences and Productivity Division

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[illegible]

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- DN = down / no stop

- Time Code

- BE = beginning time of cast

- BO = bottom time of cast.

- EN = end of cast time.

DE $\equiv$ deployment time

MR $\equiv$ messenger release time

RE $\equiv$ recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

22 March 2002

Daily log book.doc

Additional comments

- cast # 2 failed when box core arms snagged a few branches on bottom
- cast # 3. added 4 more bars of weight → now ~ 320 lbs total weight
 - failed → triggering pin did not release; Randy adjusted set
- cast # 4 - failed → 1 arm only released → suspending wire caught in groove of trigger mechanism
 - re-taped wires to arms of box core to keep clear of trigger mechanism;
- cast # 5 - 1 winch spool to 1 m/sec → to put box core more firmly in sediment
 - 1 arm only released
- cast # 6 - removed 80 lbs weight - vertically stacked 2 bars of weight on each arm to hold
 - trying rapid sediment penetration
 - wires taped to side arms
 - new rubber tubing
 - fell on slack wireline ~ 10m ← * apparent key to success.
 - apparatus not fully submerged in alcohol bath due to chunks of dry ice on bottom → next time dry ice goes in last
 - sealed for 2 hours starting @ 1300 hrs.
 - top ~ 1' of core not submerged in bath.

Date Time PDT

Sep 25 0730 - 1630 - box core operations in Ettingham as per previous notes

1630 - Audrey + Cindy depart Tully by 733 for Uclulet to try to catch 1700 bus to Victoria

- pack away coring equipment of particular concern is the fire hazard of transferring flammable alcohol.

1730-1800 - 733 returns and we depart for LG Line near shore.

app 5 hr steam

- Thermosalinograph
 - has not been working during this cruise
 - it failed during cruise 2002-32 and could not be restarted.
 - we attempt to make it operate as we leave Barkley Sound.
 - could not get terminal program running - we have a new program but old instructions
 - luckily we found old program and got it working

Notes on Coring Ops.

- it took 7 attempts app 6 hours to get one successful core - too much ship time for one sample
- it seemed sensitive to lowering rate, amount of weight and tension of bungee pulling back trigger rod.
 - the successful combination proved to be to replace bungee + increase tension, 6 weight bars to each side and freefall through the last 10 m.
- the freezing on deck failed
 - the core barely fit in the barrel
 - there was not enough alcohol
 - the alcohol transfer required turning out "fire watches" suited up - very labour intensive
- alcohol + dry ice costs are significant.
- recommend - dedicated up-right deep freezer commercial grade - no alcohol or dry ice.
 - spare core barrels

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month SEPTEMBER					Year 2002			Ship TULLY				Cruise ID 2002-38			
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments	
						Latitude	Longitude								
26	LG01	0709	ROS	BE	014	49°20.62	126°34.99			95-100	6				
		0720		BO		49°20.62	126°34.99	49	40						
		0726		EN		49°20.66	126°34.98								
26	LG02	0813	ROS	BE	015	49°18.73	126°38.10			101-108	8				
		0819		BO		49°18.77	126°38.10	100							
		0822		EN		49°18.72	126°38.11		90						
		0845	NET		016	49°18.904	126°38.004								
	LG03	0945	CTD	BE	017	49°14.97	126°43.60	126							
		0949		BO		49°14.99	126°43.57		110						
		0951		EN		49°14.99	126°43.58								
	LG04	1039	ROS	BE	018	49°11.24	126°49.43	146							
		1042		BO		49°11.26	126°49.41		135	109-118	10				
		1053		EN		49°11.28	126°49.45								
		1110	NET		019	49°11.62	126°49.86	148	148					BONGO TO BOTTOM	
26	LG05	1205	CTD	BE	020	49°07.36'	126°55.29'	275	271	/		JE			
		1210		BO		49°07.36'	126°55.37'		271						
		1213		EN		07.37	55.35								

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• bottle firing method:
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Transmissometer to be cleaned for each cast, do not use Ammonia products

DATE

TIME (PDT)

Additional comments

26 SEPTEMBER: 0400 SEA STATE 5 BEAUFORT 6-7

3 m WAVES WIND 30-35 KNOTS

AT LG04 - ROSETTE GETTING HARD TO DEPLOY/RECOVER

- BONGO VERY HARD TO DEPLOY/RECOVER - HYDRO CABLE JUMPED OFF METER WHEEL - NET TOUCHED BOTTOM

26 SEPT, 0600 SEA STATE 5-6 BEAUFORT 8+

4-5 m WAVES WIND 40-45 KNOTS

AT LG06 - OPERATIONS SUSPENDED - WAVES CAME ABOARD OVER STERN

- SHIP STANDS DOWN - MOVE TO

Date Time PDT

- Sep 26 0730
- on station E03-II for recovery
 - 35 knot winds gusting higher 3-5 m seas baro. dropped but leveled out
 - * - hove-to pending drop in weather - cost of loss of flexibility due to coring program requirements - we worked in Ettingham when weather on west coast was great.
 - attempts to get T/S logger running continuc.
 - include uninstall of Seasoft + reinstall.
 - this improved things - we are going through setup of logging lacking proper instructions
 - Thermosalinograph Finally running Con File and instrument set up were wrong now logging T/S Lat Long Chl & Empty remote Temp. A write protected copy of the original Con File should be saved in a designated place and noted in the Mintley Manual
- 1000
- the dosimat failed during the night and Sherd and McAnis attempted to fix it but without success so far
 - still hove-to.
- 1045
- Notes on Dosimat: We have been getting bubbles in the system + I noticed the top part of the Dosimat (where the 3 tubes go in) was cross threaded + after applying a bit of pressure it started leaking. I took it all apart - very dirty inside! Lots of rust + debris everywhere. There is a small spring at the bottom of the lid I pried off, + it is rusty. Tom is having a go at cleaning it up + putting the Dos. back together. S.T.

DATE TIME (PDT)

SEPT 26 1250 - SEASTATE 5 BEAUFORT 7-8
3-4 m. WAVES 35-45 KNOT WIND

SHIP MOVE TO

1300 - Tom + I got the Dasimat functioning for now.
It looks like a few of the lining-up pins are worn
away or have broken off + it makes lining up
the interior mechanisms difficult. But somehow Tom's
got it together + it seems to be working OK.
Will need to be replaced (or repaired anyway) ASAP.
S.T.

1807 - still have to work suspended. winds 35 knots seas 3-5 m.

1906 - with new weather information Paul and Tom decide to stay at LG Line
after considering heading to LC Line as an alternative.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>SEPTEMBER</u>					Year <u>2002</u>			Ship <u>TULLY</u>				Cruise ID <u>2002-34</u>		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
27	LG06	1003	ROS	BE	021	49°03.54	127°01.08	940		119-136	18		✓	initially cancelled due to motion/seas @ 0603
		1019		BO		49°03.68	127°01.10		930					
		1049		EN		49°03.96	127°01.14							26/9/2002
27	LG07	1147	CTD	BE	022	48°59.50'	127°07.15'	1750 ⁺				SE/BE/KR/DM		sounder not detecting bottom
		1220		BO		48°59.68'	127°07.13'		1749					but good trace from CTD pinger.
		1252		EN		48°59.80	127°07.13							
	LG07	1301	NET	BE	023	48°59.78'	127°07.12	1710 [±]	270					270m bongo.
	LG08	0235	ROS	BE	024	48°55.30	127°13.24							
28		0315		BO		48°55.31'	127°13.23'	2065	2078	137-158	22			
		0359		EN		48°55.33	127°12.22							
	loop 1	0309	loop		-	48°55.30	127°13.27		Lab GPS	48°55.290 127°13.271		Thermosal		GPS { 48°55.29 127°13.29 0309
	LC11	0900	CTD	BE	025	48°18.92	126°26.73							
		0925		BO		48°18.94	126°26.69	1330		159-161	3			salinities only
		0951		EN		48°18.98	126°26.69		1360					
29	Loop 2	0926	loop	BO	-	48°18.94	126°26.69			loop 2				chl + sabs.
	LC10	1043	ROS	BE	026	48°22.35	126°20.21	1248		162-181	20			
				BO		48°22.39	126°20.22							
				EN		48°22	126°20							
	loop 3	1014	Loop	BO	-	48°22.39	126°20.22							chl's + sal

Cast type:

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• bottle firing method:

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Transmissometer to be cleaned for each cast, do not use Ammonia products

22 March 2002

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Date Time PDT

- Sep. 27 0735 - on station E03-II for recovery
- range 393m @ 38 m horizontal distance
 - moving away (range 411m.) to app. $1\frac{1}{2}$ cable off.
 - $1\frac{1}{2}$ cables off range 460 m
 - waiting for deck to be ready and 2nd engine
- 0800 - range 420 m sent ABDH received positive response
- range 286 m 268 m 259 m rising — sighted on surface all up.
- difficulty maneuvering alongside due to wind.
 - mooring came up exceptionally clean
 - preparing for redeployment.
- 1124 - deployed E03-JJ at $49^{\circ}05.651$ $126^{\circ}56.010$ in 397 m water acc.
- lab sounder 397 + 4 m draft correction acc bridge sounder
- previous deployments at this exact location were 400m depth. I'm going to believe the bridge.*
- SEP 27 1600 - HERRING BALL NOTED AT SURFACE OF WATER AFTER MOORING DEPLOYMENT
- $49^{\circ}17' N$ - BIRDS FEEDING
- $126^{\circ}36' W.$

* The lab. sounder is not digitizing but giving graphic trace correctly. This is the second time during cruise this has happened. The first time it was solved by changing max depth which was set too low. This didn't help this time.

* pulse length, bandwidth, transmit power etc. several more settings were wrong — with these corrected the sounder worked fine.

Date Time PDT

- Sep. 27 1141 - on station E03-HH for recovery. Mode A FRI-FRI
- sent 6462 for FRI-2 ON
- sent 3000 received + executed but very short ranges 0-200 m
+ inconsistent
- sent 6463 FRI-2 OFF + 3000 - same result when there should have been
no reply.
- moved directly over with gen. mode off. to listen for pinger.
- two passes drifting over site listening with pinger produced no result
- no pinger signal
- 1305 - sent 6461 + 6484 3 repeated times received + executed was returned.
- ranges not consistent and too short - mooring did not surface.
- 1327 - sent 6463 FRI-2 OFF.
- 1330 - depart for E01 - JJ deployment
- 1539 - deployed E01-JJ in 100m water at $49^{\circ}17.553'$ $126^{\circ}35.830'$
- 1545 - head for LG08

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month SEPTEMBER					Year 2002			Ship Tully				Cruise ID 2002-34		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
28	LC09	1228	CTD	BE	027	48° 25.92'	126° 13.77'	614		/				
		1240		BO		48° 25.96'	126° 13.76'		603					
		1250		EN		25.98	13.73							
	LC09	1241	Loop			48° 25.96'	126° 13.75'							chl's + sal #4
	LC09	1258	NET		028	48° 25.94'	126° 13.67'							
	B101	1411	ROS	BE	029	48° 31.76'	126° 11.04'	361		182-198	17			par sensor on
		1421		BO		48° 31.77'	126° 11.00'		348					
		1441		EN		48° 31.79'	126° 11.04'							forgot the loop - sorry!
29	JFE1	0544	CTD	BE	030	48° 27.26'	124° 19.96'	28	20					loop #7
	JFE2	0617	CTD	BE	031	48° 25.26'	124° 15.08'	134	126					
		0621		EN		48° 25.26'	124° 15.06'							
	JFE3	0648	CTD	BE	032	48° 23.27'	124° 15.10'	183						loop #7 @ 0652
		0655		EN		48° 23.25'	124° 15.12'		174					
	JFE4	0749	CTD	BE	033	48° 21.32'	124° 15.26'	223		182-183	2			sal's only
		0759		EN		48° 21.51'	124° 15.63'							loop 8 @ 0753
	JFE5	0827	CTD	BE	034	48° 19.24'	124° 15.01'	210		184-185	2			
		0836		EN		48° 19.23'	124° 15.01'		204					loop 9 @ 0834
	JFE6	0905	CTD	BE	035	48° 17.65'	124° 14.95'	172						
		0910		EN		48° 17.64'	124° 14.98'		165					loop 10 @ 9:09

Cast type:

BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop

MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:

US = up / stop
UN = up / no stop
DN = down / no stop

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

Transmissometer to be cleaned for each cast, do not use Ammonia products

22 March 2002
Daily_log_book.doc

Date Time PDT

Sep. 28 0830

- completed sampling CTD/R B101
- on station B101-B for recovery
- range 69 m 31 m horizontal distance
- ship backing off 1 cable distance range 118 119 m
- range 220, 222 1.1 cable horizontal distance

0840

- sent ACGH received positive response - sighted on surface
- came up floating - got to fix this suggestions
on its side
- d

0911

- directly over A1-II for recovery
- sent 6452 range 501 - gen. mode off
- sent B000 ranges 477, 472 also giving sets of consistent
short ranges - 392 393 398
- a set of 440's - 450

- backed off 1 cable away.

0918

- sending 6456 then 6484 received + executed.
- sighted on surface
- prep for redeployment

1243

- deployed mooring A1-JJ at position $48^{\circ} 31.775'$ $126^{\circ} 12.189'$ in
501 m water.

1300

- 8.5 hour steam into Juan de Fuca Strait for mooring JF2C-CU-B.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

[illegible]

Cast type:	USW = sea water loop	• bottle firing method:	• Time Code	
BOT = bottle cast, no CTD	MOR = mooring	• US = up / stop	• BE = beginning time of cast	DE = deployment time
CTD = CTD without Rosette	NET = net haul	• UN = up / no stop	• BO = bottom time of cast	MR = messenger release time
ROS = Rosette plus CTD	DRF = drifter	• DN = down / no stop	• EN = end of cast time	RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

22 March 2002
Daily log book.doc

Date Time PDT

Additional comments

Sep. 28 2147

- deployed mooring JF2C-CN-C in 185m water
at $48^{\circ}21.508'$ $124^{\circ}12.842'$

* Next time we launch on the stbd side to
avoid swinging and nearly hitting A-frame

Date Time PDT

Sep. 29 0705

- on station JF2E-B for recovery. - app. 90 m away horizontal.
- ranges 150, 151 - this would indicate we are right on top.
- we move directly over mooring location ranges = 163, 165, 170, 179
- the mooring is not exactly where indicated.

0720

- we move 1.3 cables to east waiting for crew to finish breakfast
- ranges = 450 - 455 - standing by

0736

- crew finished. setting up deck for moorings

0739

- moved to 1 cable off mooring ranges 256, 258

0741

- sent BCDF received positive response.

0742

- in sight

- Releases prep'd but not deployed 200, 460, 524D

0958

- deployed JF2E-CV-C at position $48^{\circ}15.159'$ $124^{\circ}09.744'$
in 152 m depth

1010

- headed for Victoria + I.O.S
- off loading to trucks tonight.

Cruise 2002-42

Vector Nov. 3-6

Date Time PST

- | | | |
|--------|------|---|
| Nov. 3 | 0800 | <ul style="list-style-type: none">- Tom, Lucius, Dave meet ship at LOS, complete loading- ship had already loaded trucks left full by us on Friday.- Winch swap is completed.- final check |
| | 0835 | <ul style="list-style-type: none">- sail for JF2B-CV-B for recovery- ETA app 1500-1600 hours- light winds. sunny + calm. |
| | 1543 | <ul style="list-style-type: none">- on station JF2B-CV-B for recovery.- sent XPD ranges 145-149 we are on top of mooring.- move off to release position app. 1 cable off. - 1 1/2 cable. |
| | 1550 | <ul style="list-style-type: none">- stopped for release- 395 397 range- sent ADFH received positive response- sighted on surface |
| | 1610 | <ul style="list-style-type: none">- all onboard head for JF2A |

Date Time PST

Nov. 3 1630

- on station JF2A-CV-B for recovery
 - sent XPD and received no range
 - no audio + no counter stop. except for random signals as gain is advanced.
 - listened with pinger - both pinger heard clearly
 - tried alternate deck units and transducers without success.
- 1650
- losing light - not confident to send release code.
 - try again first thing in morning.

1658

- headed into shore to anchor for night
- setting up instruments for tomorrow.

Nov. 4, 0715

- on station JF2A-CV-B for recovery.
- 1 cable off
- no response to ranges
- sent BCGH - no response repeated. - no response
- sent BCGH - no response
- sighted on surface.
- top witness buoy + SG17 missing.
- top instrument #731 missing - body band broken.
- mooring surfaced app. 2 cables off station acc. bridge

Date Time PST

Nov. 4 0914 - deployed JF2A-CV-C in 105m draft corrected.
@ $48^{\circ}24.814'$ $124^{\circ}09.961'$

-N.B.: Release codes:

JF2A-CV-C has #251 code ACEH

JF2C-CV-B has #466 code ABEH

before deploying #251 check its response to ABEH 3x

-did not release *

1047 - deployed JF2B-CV-C in 168m draft corrected
@ $48^{\circ}22.921'$ $124^{\circ}11.057'$

-head for JF2C-CV-B for recovery.

1125 - on station JF2C-CV-B for recovery. app. 1 cable off

-range 261 253

-sent ABEH received positive

-sighted on surface

1200 - head for I.O.S. ETA 1830 for off loading same night.

-data download + packing up en route.

app. 1900

-arrive I.O.S.