DAILY LOG

CRUISE NUMBER 2001-13

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE	May 19 - 27, 2001
VESSEL	J. P. Tully
PROJECT	La Perouse, Juan de Fuca, Aquaculture, Georgia Strait Effingham.

Captain: Paul Frost **First Officer:** Mike

Second Officer: Rick **Third Officer:** Russ

Mission Participants / Agencies: U.B.C. / O. Ec (OSAP) / O. Phy. (OSAP)

Scientific Personnel: **Party Chief:** Tom Juhasz

Name	Watch	Cabin	Name	Watch	Cabin
Dave Spear					
John Love					
Bernard Minkley					
Angelia Feng					
Steve Roncin					
Adian Marchetti					
Nicolas					
Jennifer Jackson					
Doug Moore					
Jennifer Putland					

Second leg of Mission: Party Chief: _____

Name	Watch	Cabin	Name	Watch	Cabin
same Jane Eert joins					
Angelica, Jennifer, Jennifer, Adrian, Nicolas leave					

Data logging computer: _____

Data acquisition program: _____

CTD deck unit make: _____ model: _____ serial number: _____

Primary CTD

Make: Seabird model: 911+ serial number: 0443

Primary temperature sensor serial number: 2106 Calibration date: 2 Nov 2000

Primary conductivity sensor serial number: 1763 Calibration date: 31 Oct 2000

Secondary temperature sensor serial number: 2023 Calibration date: 1 Nov 2000

Secondary conductivity sensor serial number: 2128 Calibration date: 31 Oct 2000.

Other sensors: Trans. Wetlabs C-Star s/n: 333DR

Other sensors: pump fluorometer s/n: 2229 secondary pump

Other sensors: not pump fluorometer s/n: 2228

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: _____

HYDRO WINCH X=1.9929
Y= 10^{-3}

X=1.9886

314
25
316,5 x TT

May 19

- 0800 PDT winches loaded

-0900-2030 - science equipment loading and lab set up and test cast with Rosette.
- had problems with CTD program setup being no pressure reading from CTD until the 2 flourometers on the probe were entered correctly in the program (identified)
- this caused a late departure which was planned for 1900 hrs

-2030 - depart and head for Angelica's station in Juan de Fuca for sun rise

May 20

0637 - complete station JF01 for Angelica Pena phytoplankton to 183 m.
48 20.76 124 12.36

0822 - complete station JF1A for Adrian Marchetti phytoplankton to 197m
48 23.05 124 20.41

1007 - approaching (slowly) JF2C-F app 1½ cables
- sent CDF
- received 543 range, 470 range
- over top range 190 m - 200m

1016 - moved off for release range (start 234)m
- sent BEFG received positive response
ranges
292 293 294 295
- sent BEFG again received positive response
- not surfacing
- sent BFGH no response
- sent BFGH got positive response
- range 235 231 230
232 228 224

Trans S/N 333DR
calibrated 26 May 2001

used Super-Cote Cleaner made by Denglas Division of Denton Vacuum Inc.
Cherry Hill NJ 08003

air value 4.729 M =
blank -.058 B =

factory air - 4.853 Vref = 4.753
factory blank = .062 Cal temp 25.3 °C

old cal values M = 18.977 calibration date 14 July 2000.
B = -1.176

channel 8 voltage 2 = Trans.

A_0 = 4853
Y_0 = .062
W_0 = 4.753
T_w = 91.3%
A_1 = 4.729
Y_1 = -.058

$M = (T_w/W_0)*(A_0 - Y_0)/(A_1 - Y_1)$ = 19.22497

$B = -M Y_1$ = 1.115

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Year 2001 | Month May | Ship Tully | Cruise I.D. 2001-13

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
20	JF01	ROS	1337		1.	48 20.76	124 12.36	✓	193	183	1-19	19.		unpumped flow not connected
20	JFIA	ROS	1522		2	4823.05	124 20.41	✓	205	197	21-40	20		trans not working
21.	C2.	ROS	0308		3	48 25.35	125 07.94		143	135	—			
	C2	NET	0335	BO	4	48 25.36	125 07.97		"	138				BONGO
21	C1	ROS	432		5	4828.77	125 15.28		150.	145	—			
	C1	NET	0456	BO	6	48 28.99	125 15.26		153	145				VNH & 145 BONGO
21	C3	ROS	0552		7	4823.445	12520.769		124.		—			
	C3	NET	0613	BO	8	48 23.44	125 20.80		124	116				VNH BONGO
	C3	NET	0630	BE	9					SURF				Neuter Tow HNH
21	B8	ROS	0806		10	48 34 44	125 30 .02		139					
	B8	NET	0829	BO	11	48 23.44	125 20.76		135	130				Bongo VNH.
21	B7	ROS	0914		12	48 32 01	125 35 48	✓	80		41-46	6.		Rosette.
21	B7	NET	0940	BO	13	48 32.01	125 35.49		80	75				Bongo VNH.
21	B7	ROS	0958		14	48 32 00	125 35.57	✓	80					Adrian Water Samples
21	B7	NET			15	48 32.01	125 35.49							Plankton Net
21	B7	Net	1030	BE	16				80	SURF.				Neuston.

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May 20
- recovery at JF2C continues

1027 -sent BFGH received positive response
-range 226, 228, 224, 230
-sent BFGH received positive response
-range 244, 247, 247
-not rising

-sent CDFG - still received ranges
should be off

-sent CDF - range 283, 283
1033 -sent BEFG -received positive response
-range 294, 292
-sent BFGH -received positive response
-range 303, 302, 304

1040 -setting up for drag - sending acoustic release
commands meantime
-BFGH - positive response.
-BEFG - no response.
-BFFG - positive response

NB: no double ping for tilt not tilted.

range 385, 387, 390, 391
-VHF DF being monitored
-Argos being monitored.
-conditions are clear, sunny, low swell no seq
rippled = idea
-we are 1½ cable off station
1051 -sent BEFG -no response range 457
- " " -positive response.
range 458
-sent BFGH - no response
- " " -positive response
range 459.
-set up counter on winch
1126 -start drag
1135 - on bottom
1203 - steamed "U" around mooring 1800m wire out
range 359m
- maintaining station + heave in.

1229 - caught mooring with and pulled it in.
1245 - all on board cleaning up
- TG flooded - slight damage by our wire to main float.

May 20

1328 - on station JF2E-F

- sent 6462 Fr 1+2 ON
- ranges 164 163
- moving off to release position range 283 m

1335 - sent 6461 and 6484 received "executed" confirmation
- mooring sighted on surface.

- recovered without incident
- head for JF2A-F

1506 - on station JF2A-F for recovery

- sent 6452 FR 1+2 ON
range 137, 130, 123, 118 m (approaching mooring

range 109, 106, 101 m - right on top

1511 - moved away to release.
- range 139 m
- sent 6451 + 6484 received positive response
- sighted on surface.
- recover + clean up.
- launched 733 with Dave to service Port Renfrew TG.

1657 - new TG deployed
- hardware has to be replaced - well cleaned out next servicing.

1720 - picked up small boat heading for C2 Rosette's + Bongo.

- completed C1-C3 B7 B8 Bongo / Neuston stations, all sampling for Adrian Marchetti and all for Angelica Pena.

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Ocean Sciences and Productivity Division

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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
21.	A1	ROS	1339		17	48 31.06	126 11.97	✓	532		47-68	22		
	A1=LC8	NET	1455	BO	18	48 30.97	126 12.07		540	250				Bongo & 250m
21	LC12	ROS	2308	BE	19	48° 15.02'	126° 39.97'		2520	2450	69	1.		PAR removed
21			2358	BO		48°15.02'	126° 39.99'							Sal. Cal #69
22			0014	EN		48 15.003	126 39.986							
22	LC12	NET	0102	BO	20	"	"							Bongo
22	LC12	NET	0130	BO	21	"	"							Bongo - DNA
22	LC11	ROS	0250	BE	22	48°18.93'	126° 26.69'		1450	1473	70-89	20		1446 a counter
			0325	BO		48 18.956	126 26.676							
			0412	EN		48 18.934	126 26.689							
22	LC10	ROS	0505	BE	23	4822.36	126 20.19		1250		\			
			0556	EN						1246				
22	LC09	ROS	0645	BE	24	48 25.90	126 13.65		610	605	90-105	16		
			0653	BO		48°25.93	126°13.94							
			0722	EN		48° 25.93	126° 13.69							
22	LC09	NET	0738	BO	25	48° 25.93	126° 13.69			250				Bongo
22	LC08	CTD			26									

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May 21

-0730 - completing biological work at A1

- turned mooring on during this work ranges ~ 1574-1571 m

-0830 - on site A1 for recovery
- range 480, 478 m

-0832 - moved of to release position range 522 m

- sent 6421 and 6484 + received positive respouse

-0835 - sighted on surface + recovered without incident

- while mooring cleaned up and new one prepared, we completed a detailed survey of bottom to locate depth anomalies ie a trench that may explain previous deeper deployments.
- for more than 1 cable radius around the old mooring site the depth is 500 ± 1-2 m.

-1256 PDT - launched mooring A1-GG in 498.50 m at 48° 31.807' 126° 12.175'

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22	LC08	CTD	0839	BE	26	48° 29.41	126° 07.13'		202	198				
			0846	BO		48° 29.42	126° 07.13'							
			0850	EN		48° 29.42	126° 07.13'							
22	LC08	NET	0904	BO	27	48° 29.42	126° 07.13		202	198				Bongo
22	LC07	ROS	1000	BE	28	48° 32.90'	126° 0.49'		120	116	106 - 114	9		
			1005	BO		48° 32.95	126° 0.48'							
			1014	EN		48° 32.90'	126° 0.49'							
22	LC06	CTD	1102	BE	29	48 36.43	125 53.99		93					
		NET	1125	BO	30	48 36.42	125 53.98							BONGO
22	LC05	CTD	1222		31	4839.950	125 47.443		65					
		NET	1236	BO	32	4839.96	125 47.44							BONGO
22	LC04	ROS	1321		33	48 43.43	125 40.84		166					
22	LC03	CTD	1420		34	4846.94	125 34.23		135	120				

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May 22

1800 - science crew change in Banfield
Angelica, Jennifer R., Adrian
and Nicholas leave ship.

- Jane Eert joins ship.

May 23

-0700 - landed Jennifer Jackson in Hot Springs
Cove
- head for mooring

-0845 - on station E01-FF for recovery
- sent 6442
- ranges 89, 87, 88. - right on top.

- moving off to releasing position
- ranging 159 → 197 - 261 m.

-0853 - sent 6441 and 6484 received positive
response with 305 m range

0856 - sighted on surface 381 m range.

- recovered without incident
- prepare to redeploy

1135 - deployed E01-GG in 100m water
at position 49° 17.520'
126° 35.755'

- head for E03-FF for recovery.

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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
22	LC02	ROS	1503		35	48 48.709	125 30.937		101	105	125-133	9		
22	LC01	CTD	1554		36	48 50.435	125 27.722		95.6	90	—			
22	EFF1	ROS	1652		37	49 05.508	125 11.590		39	36	134-137	4		
22	EFF2	ROS	1928		38	49 05.002	125 10.329				138-143	6		
23	EFF3	ROS	20:00		39	49 4.25	125 9 41		123	117	144-151			
23	EFF4	ROS	20 39		40	49 3.06	125 8 60		69		152-156			
23	EFF5	ROS	21:00		41	49 2.53	125 9.16		207		157-167			
23	EFF6	ROS	21:39		42	49 1.80	125 9.18		153		168-176			
23	EFF7	ROS	22:00		43	49 1.23	125 9.42		120		177-184			
23	EFF8	ROS	22:37		44	49 0.68	125 10.22		89		185-191			

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May 23

1340 - on station EO3-FF

- sent 6432 - received executed
  - range 444 m

- moving on station
  - range 410 m
  - 379 m, 378 m
- moving to release position.

- conditions are marginal. 25-30 kn winds seas rising.

1347 - 399m range., 403, 411, 416, 423, 447

1350 - sent 6431 and 6434 got executed response range 481 m.

1352 - sighted on surface.

- recovered with difficulty and damage to instruments in worsening conditions
  - gale force 35-45 kn. winds

- mooring nearly all prepared for redeployment but Captain + Chief Scientist decide to postpone until conditions improve

- we go to LG08 station and rig for CTD only operation
  CTD was removed from Rosette and bottom find pinger on bridle similar to Rosette ballast weight was attached.

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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
23	EFF9	ROS	2300	BE	45	49° 0.11'	125° 10.35'		64	60	192-197			
			2302	BO		49° 0.10'	125° 10.85							
			2306	EN		49° 0.10'	125° 10.85							
23	EFF10	ROS	2322	BE	46	49° 0.10'	125° 11.26		101	95	198-204			
			2325	BO		48° 59.83	125° 11.26							
			2331	EN		48° 59.83	125° 11.26'							
23	EFF11	ROS	2345	BE	47	48° 59.09	125° 11.07'		85	81	205-214			
			2347	BO		48° 59.09	125° 11.05'							
			2352	EN		48° 59.05	125° 11.01'							
23	LD02	CTD	0527		48	48 58.35	125 47.02		45.					
		NET			49					35				BONGO VNH
		NET			50									BONGO VNH -DNA
23	LD04	CTD	0708		51	48 53 10	125 56 82							
		NET			52									BONGO VNH.
23	LD06	CTD	0853		53	48° 46.12	126° 10.10'		139					
										133				

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Removed CTD from Rosette

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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
24	LGØ3	CTD	0206	BE	54	48° 55.37'	127° 13.31'		2062					4 bottle trip liner appears without
			0249	BO		48° 55.38'	127° 13.46'			2068				apparent cause.
			0325	EN										Benthos pinger shows on sounder
	LG07	CTD	0431	BE	55	48 57.35	127 07.097		1760	1767				
			0508	BO		48 59.439	127 07.247							
24	LG06	CTD	0706	BE	56	49° 03.45'	127 01.01		950	950				bottom depth in header is wrong.
			0730	BO		49° 3.47'	127° 1.07'							More Fake bottle
			07	EN		49° 03.49'	127° 01.19'							trips (4)
24	LG05	CTD	0858	BE	57	49° 07.35	126° 55.20'		260	264				
			0908	BO		49° 07.39	126° 55.22'							
24	LG04	CTD	1015	BE	58	49° 11.30'	126° 49.24'		146	137				
			1013	BO		49° 11.31	126° 49.25							
			1024	EN		49° 11.29	126° 49.29							
24	LG03	CTD	1118	BE	59	49 14.97	126 43.62		125	120.				
24	LG02	CTD	1215		60	49 18.69	126 38.01		101	88.				

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May 24

- 0800 - LG Line finished CTD's only
  - on site E03 for deployment
    - situation marginal winds 35 knots seas 2-3 m
    - Captain decides to allow deployment
    - we set up on deck
    - winds continue to rise
    - Captain calls off deployment.
- app. 0900 - we decide to go into Muchalat Inlet to complete Stucchi stations until weather subsides
  - will try E03 0600 tomorrow morning.
  - will do MUC + LH Line stations until morning.

May 25

- 0500 - on station E03 to deploy E03-GG
  - conditions acceptable but wind + seas rising becoming marginal.
- 0530 - crew on deck assembling mooring
- 0602 - deployment starts
- 0628? - mooring deployed as E03-GG in 403m water. (on previous position
  - sounder very erratic with few reliable readings - rough seas
  - position is: 49° 05.540'
    126° 55.989'
  - heading for Brooke's Penn mooring BP1-FF or CTD line LBP
  - conditions deteriorating - gale force winds
- 1540 - arrive LBP2 for CTD + Bongo
  - mooring operation cancelled until wind drops
  - Captain does not want to do LBP1 because it is too shallow + close to land.

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24	LG01	CTD	1248		61	49 20.49	126 34.89		58.	46.				
24	MUC1	ROS	2123	BE	62	49 37 56	126 3.59		132		215-222			
24	M5 KM	ROS	2215	BE	63	49 38 96	126 5.54		173		223 - 232	10		
24	MUC2	ROS	2316	BE	64	49° 40.18	126° 9.39'		366	3 56	233 - 246	14		
25	MUC3	ROS	0025	BE	65	49° 39.03'	126° 14.35'		340	366	247-260	14		Mud Sample!!
			0033	BO		49° 39.04	126° 14.38							Cleaned out CTD/R
			0048	EN		49° 39.02	126° 14.40'							
25	MUC4	ROS	0132	BE	66	49° 38.49'	126° 20.73'		291	287	261-273	13		
25	MUC5	ROS	0229	BE	67	49° 39.02	126° 28.46		212	199	274-285	12.		
			0235	BO		49° 39.02	126° 28.48							
			0247	EN		49° 39.04	126° 28.50							
25	TLU-1	ROS	0317	BE	68	49 41.57	126 30.84		260.	253	286-297	12.		
25	MUC6	ROS	0436	BE	69	49 35.79	126 35.73		116.	110.	298-305	8.		
25	LH01	CTD	05:38	BE	70	49 34 35	126 44 11		36			1.		CTD removed from Rosette
25	LH02	CTD	0611		71	49 32.19	126 47.31		55.	49				

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May 25 cont'd

-1738 - weather improved stopped work along LBP line
-on station BP1-FF
-sent 6412 executed range 109

-range 111
-ready to recover.
-waiting for extra engine + Captain.

-1800 - range 247 m, 300m, 296 m
-sent 6411 and 6484 no received or executed.

-moving closer.
-1809 -sent 6412, 6411, 6484
-received positive response
-"received" "executed"
range 153 m

-1811 -sighted on surface.

-quick turn around on deck

-1938 - launched BP1-GG in marginal conditions at 50° 03.691' 127° 53.420' in 102m water.
-due to steaming time, tide, poor weather program reduced to partial LBP Line some Copra stations as time permits a

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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
25	LH03	CTD	0657	BE	72	49° 28.57	126° 52.84'		104	96				Lots of squid dancing in the deck lights
25	LH04	CTD	0747	BE	73	49° 24.84'	126° 58.58		139	129				no pinger trace on sounder.
25	LH05	CTD	0835	BE	74	49° 21.27'	127° 04.40'		164	156		2		" + 2 false bottle trips
25	LH06	CTD	0924	DE	75	49° 17.50'	127° 10.33'		478+	479		3		pinger showed up
25	LBP02	CTD	2258	BE	76	50 03.975	127 54.142	GPS	103	96				
			2301	BO		50° 03.96	127° 54.15							
			2304	EN		50° 03.95	127° 54.16							
25	LBP02	NET	2315	BE	77	50° 04.02	127° 54.26		102	95				Bongo VNH
25	LBP03	CTD	2345	BE	78	50° 03.15	127° 55.26		171					spikeC 115m in data.
			2350	BO		50° 03.15	127° 55.25			162				
				EN		50° 03.15	127° 55.23							
26	LBP03	NET	0000	BO	79	50° 03.15	127° 55.33		161	155				Bongo VNH
26	LBP05	CTD	0325		80	50 00.01	127 59.93		1283	1285		4		close bt no mud!
		NET	04		81	50.00.72	128.00.00			250				BONGO VNH.
26	LBP06	CTD	0516	BE	82	49 56.174	128 05 4.19		780	906.		2		area of seamount

Cast type: BOT = ottle 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

May 26

- 0800 - entering Goletas Channel north end heading for FS1-A mooring.

- enroute examined mooring configuration
- there was no mooring design or drawing available from Aquaculture Project participants - even the components were in doubt.
- rough calculations showed that if a SS28 buoy was used with 5/16" wire the mooring is not buoyant at all
- called Darren Tuele for clarification found out that an SS28 with 1/4" wire was used
- in this scenario the mooring proved to be app. 40-45 lbs total positive buoyancy - far too light!

- we are pressed for time to meet the right tides in Seymour Narrows. There is no space for a poorly designed marginal mooring. If we release, and it doesn't rise immediately, there is no opportunity to deal with the situation
- based on this we are bypassing this mooring and dealing with it at a future date.

- both engines on heading for Seymour Narrows