

DAILY LOG

CRUISE
NUMBER

2001-29

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

21 Aug. — 5 Sept 2001

VESSEL

J.P. Tully

PROJECT

Line P

Captain: PAUL FROST

Second Officer: RICH MARGLOTT Third Officer: RUSS McNEEL

Mission Participants / Agencies:

Scientific Personnel:

Party Chief: *Don Perkins*

[illegible]

Second leg of Mission: Party Chief:

Name	Watch	Cabin	Name	Watch	Cabin
SUN					
JANUARY					
FEBRUARY					
MARCH					
APRIL					
MAY					
JUNE					
JULY					
AUGUST					
SEPTEMBER					
OCTOBER					
NOVEMBER					
DECEMBER					

Data logging computer: FS02

Data acquisition program: _____

CTD deck unit make: Seabird model: 11 serial number: 0424

Primary CTD

Make: Seadroid model: 911 + serial number: 0550

Primary temperature sensor serial number: 2668 Calibration date: 18-Jul-01

Primary conductivity sensor serial number: 2102 Calibration date: 17-Jul-01

Secondary temperature sensor serial number: 2374 Calibration date: 18-Jul-01

Secondary conductivity sensor serial number: 2128 Calibration date: 17-Jul-01

Other sensors: TRANSMISSOMETER s/n: 192 D

Other sensors: PAR s/n: _____

Other sensors: Oxygen s/n: _____

Other sensors: Fluorometer s/n: _____

Primary temperature sensor serial number: 2668 Calibration date: 18-1-08
 Serial number: 0330

Primary conductivity sensor serial number: 2102 Calibration date: 17-11-21

Secondary temperature sensor serial number: 2374 Calibration date: 18-11-21

Secondary conductivity sensor serial number:	2314	Calibration date:	18-Jul-21
Secondary conductivity sensor serial number:	2128	Calibration date:	17-Jul-21

Other sensors: TRANSMISSOMETER
Calibration date: 17-30-01
s/n: 192 D

Other sensors: PAR s/n: 192 D

Other sensors: Oxygen s/n: _____

Other sensors:		s/n:
Fluorometer		s/n:

Secondary CTD

Make: _____ model: _____ serial number: 0443

Primary temperature sensor serial number: _____ Calibration date: _____
 Sensor model: _____

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: _____
Calibration date: _____

Other sensors: _____
s/n: _____
Other sensors: _____
s/n: _____

Other sensors: _____

s/n: _____

Comments:

17026 new normal 1.5635 $\times 10^{-3}$

$$304.5 + 8 =$$

Date of cable termination: _____

Please identify nominal cable diameter:

At cable end:

- at 5 metres:**

3.

For comparison, the outer armour measurements of new cable:

Nominal .322" should be .318 to .326"

The tolerance of the PMI Evergrip termination is tighter and only cables within these limits should be used.

For nominal .322" cable the lowest possible diameter is .309"

Kinks:

Birdcage

Kust Making off cable

Does cable have too

(Raised wires or space between wires.)

Remove cable that exhibits these

Megger results by conductor (should be greater than 10,000. meg ohms)

Inner armour to conductor 2

Please identify PMI sleeve used by checking the appropriate blank:

part number 9004897-13, cable diameter range .309" to .320":

part number 9004897-14, cable range .321" to .333".

Evergrip helical Rods:

Presence of grit on inner surface (yes / no)

Are the wires rusted?

[illegible]

		O ₂	Sal	Nut
1 - 11	1	✓	✓	✓
15 - 30	8	✓	✓	✓
*31 - 36	13		✓	✓
44 - 61	22		✓	
62 - 84	23	✓	✓	✓
85 - 108	38	✓	✓	✓
118 - 133	42	✓	✓	✓

no Salinity Samples

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Year 2001					Month August			Ship J. P. Tully				Cruise I.D. 2001-29		
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	SI03	ROS		BE	1	48 35 92	123 30 04		223	2				
			0651P	BO	1	48 35 93	123 30 02			217	1-11	11	H.M.	
			1251	EN	1	48 35 00	123 29 97							
22	JF1	Loop	0600	BE	-	48' 16.106	123' 30.011		153					Loop 1
22	JF2	Loop	0740	BE	-	48 17 99	123 59.97		185					Loop 2
22	JF3	Loop	0936	BE	-	48 26.96	124 29.98		222					Loop 3
22	JF4	Loop	1150	BE	-	48 32.36	125 00 00		60					Loop 4
22	P1	ROS	1359	BE	2	48 34 50	125 30 09		125		12	1		
			1400	BO		48 34 50	125 30 22			110				
			1405	EN		48 34 52	125 30 27							
22	UBC2	ROS	1458	BE	3	48 32 06	125 35.71		76			6		Closing bottles for
			1501	BO	3	48 32 08	125 35 72			71				Adrian. No rosette sheet
			1506	EN	3	48 32 11	125 35.75							
	P2	ROS	1928	BE	4	48 36 01	126 0.03				13			Deck unit, R/C + pump
			1932	BO	4	48 36 00	126 0.07		115	109				left on for a long time
			1936	EN	4	48 36 03	126 0.06							Garbage data @ end of file
														lost ok.
	UBC3	ROS	2203	BE	5	48 32 69	126 12 00					10		
			2207	BO	5	48 31 57	126 12.95		560	550				
			2222	EN	5	48 31 60	126 12 02							

Cast type:

BOT = otter cast

CTD = CTD

MOR = mooring

ROS = Rosette

NET = net haul

DRF = drifter

USW = sea water loop

Time Code

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OPC = Optical Plankton Counter

21290007. ~~dot~~ was recorded for event 8 (the deep cast at P4)

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Year 2001					Month AUGUST			Ship JOHN P TULLY				Cruise I.D. 2001-29		
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23	P3	CTD	0120	BC	6	48 31 46	126 20 18		815		14	1		SURF LOOP @ 5m
		CTD	0137	Bo	6	48 37 39	126 20 17			800				
		CTD	0151	EN	6	48 37 53	126 20 15							PAR SENSOR OFF
23	P4	pumping	0332	BE	—	48 39 002	126 39 983		1315					
23	P4	Go-Flow	0524	BE	7	48 38 921	126 40 084		1322	1000				
23	P4	ROS	0649	BE	8*	48 38 92	126 40 03							Deep rosette cast
		"	0712	Bo	8*	48 38 91	126 39 97		1324	1300	15-30	16		150m
			0756	EN	8*	48 38 85	126 39 97							Niskin # 10 + 16 were not tripped.
23	P4	OPC	0910	BE	9	"	"							OPC cast (Rob Campbell)
	P4	NET	1126	Bo	10	48 38 91	126 39 98		1301	150				BOMGO
23	P4	OPC	1258	BE	12									OPC cast (Rob Campbell)
	P4	NET	1200	Bo	11	"	"		1301	150				DNA SCORING
23	P4	ROS	1449	BE	13	48 38 96	126 40 10		1316					
			1455	Bo		48 38 92	126 40 07			250	31-38	6		
			1507	EN		48 38 90	126 39 75							
23	P4	NET	1533	BC	14	48 38 97	126 39 96		1313			1		ROB'S CLOSING NET
			1556	Bo		48 38 95	126 40 06							
				EN										

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* The P4 deep cast was recorded as 21290007.dif

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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	P5	CTD	1933	BE	15	48° 41.56	127° 9.95							
	"		1959	BO	15	48° 41' 48	127° 9.99		2100	1500	37	1	S.T./T.S.	Garbage data @ beginning of day - 1050 hours
	"		2016	EN	15	48° 41.44	127° 10.00							Some good data, mostly garbage
23	P6	CTD	2250	BE	16	48 44 57	127 39 98		2530		38	1	HM/R.P.	
	"		2333	BO	16	48 44 58	127 40 07			2545				
	"		2359	EN	16	48 44 67	127 40 18							
24	P7	CTD	0223	BE	17	48 46 57	128 10 00		2490					
			0302	BO	17	48° 46.59	128° 10.12			2538	39	1	HM/RP	
			0339	EN	17	48° 46.69	128° 10.21							
24	P8	CTD	0603	BE	18	48° 49.06	128° 32.92		2500					
			0653	BO	18	48° 49.10	128° 32.97			2543	40	1	MR/MH	Stop @ 975 d to check wire 70'
			0724	EN	18	48° 49.04	128° 39.93							Stop @ 2247 d water change
24	P9	CTD	0954	BE	19	48° 51.42	129° 9.94		2379	2440				
			1031	BO	19	48° 51.43	129° 9.99				41	1		Touched down
			1108	EN	19	48 51 40	129 10.03							
24	P10	CTD	1331	BE	20	48 53 62	129 39.97		2625					
			1419	BO	20	48 53 56	129 40.07			2678	42	1		
			1505	EN	20	48 53.57	129° 40.00							

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After the 40cm Rosette cast, the GoFlo sampling was attempted but the Kevlar line slipped into the cheek groove and parted. A new block was installed.

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24	P11	Go-flo		BC	—	48 56.07	130 09.71			50m			ms.	5 go-flo Per. Keith (for cleaning purposes)
24	P11	CTD	1827	BE	21	48 56.02	130 09.96		2735				MM/MR	
			1906	BO	21	48 55.92	130 10.11			2725	43	1		
			1935	EN	21	48 55.86	130 10.36							
24	P12	ROS	2220	BE	22	48 58.15	130 39.96				44-61	18		PAR SENSOR ON
			2232	BO	22	48 58.15	130 40.03		3300	400				
			2301	EN	22	48 58.18	130 40.03							Om sample not taken S.T.
24	P12	Pump & GoFlo	2342	BE										
25	P12	ROS	0204	BC	23	48 58 08	130 40 27		2964					PAR SENSOR OFF
		ROS	0304	BO	23	48 58.02	130 40.07			3150	62-84	23		
		ROS	0417	EN	23	48 58.14	130 40.12							
25	P12	OPC	0735	BE	24	48 58.21	130 40.00		2996	700m				
			0850	EN	24	48 58.221	130 40.130							
25	P12	VMPS	0855	BE	25	48 58.21	130 40.10		2999	2000				
			1030	EN	25	48 58.1	130 40.0							
	P12	NET	1115	BC	26	48 58 27	130 40.06		3010	150				BONGO
25	"	OPC	1204	BC	27	48 58 24	130 40.04		3013	700				
		OPC	1231	EN	27	48 58 25	130 40.06							

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After P13, Aug. 25, 26, 27 - Due to strike, turned back to 10S, then returned to P14.

R.P. Cleaned Transmissometer Lenses 17:12 UTC Aug. 28
Slight yellowish residue on tissue after cleaning.

H.M. - CLEANED O₂ PROBE in HEATED 35°-40°c TRITON SOLUTION
AUG 28 @ 12:30 LOCAL - SOAKED 1 HR - REMOUNTED @ 1340 LOC

(PDT) 13:42 Aug. 27, "Strike resolved", off Pachena Point; ship turned around
On Station at P14 @ 20:35 PDT Aug. 28

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25	P12	BOT	1310	BE		48 58.265	130 39.995		3214					PRIM 100 CAST
25	P12		1338	EN		11	11							
25	P13	CTD	1823	BE	28	49 02.59	131 39.99		2958	±100				
			1915	BO	28	49 02.53	131 40.02			3055	85	1		
			1959	EN	28	49 02.61	131 40.10							
29	P14	CTD	0349	BE	29	49 07.32	132 39.83		3295					O ₂ and Xmelar
			0435	BO	29	49 07.37	132 39.98			3367	86	1		
			0522	EN	29	49 07.26	132 40.02							
	P15	CTD	0928	BE	30	49 12.07	133 40.11		3390					
			1026	BO	30	49 12.05	133 40.02			3450	87	1		
			1103	EN	30	49 12.04	133 40.01							
29	P16	CTD	1538	BE	31	49 17.02	134 39.82		3604					PAL SENSOR ON
			1542	BO	31	49 17.01	134 39.83			253				
			1546	EN	31	49 16.99	134 39.85							
29	P16	PRIM PROD	1650	EN	32	49 17.02	134 39.74							Go-pls for prim prod
29	P16	PUMP	1656	BE	33	49 17.02	134 39.75		3607					PUMPING
20	P16	OPC	1950	BE	34	49 17.02	134 39.75		3605	700				
20	P16	WOPS	2050	EN	34	49 17.02	134 39.75							

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Deep Rosette cast, # 30: Bottle 10 did not close again.

Remove the top part of the pylon, soak it in warm water with triton
Then clean each "arm + hole" with ISOPROPANOL + Q-tips. There was lots
of black grease on #10 arm.

(PDT) 14:55 Aug. 30: Abort ship due to medical emergency: ~~48~~ $49^{\circ} 31'$, $137^{\circ} 51'$.
Head for Port Alberni.
Arrive head of pier 20:45 Sept. 1 PDT.

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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
29	P16	UMPS	2058	BE	35	49 17.05	134 40.13		3606	2000				
29	P16		2230	EN		49 16.92	134 40.98							
29	P16	BOT	2230	BE	36	49 16.92	134 40.98			1000				IRON Co-FLO'S
		BOT		EN	36									
29	P16	NET	1053	BE	37	49 17 027	134 40 174		3606	150				BONGO TO 150m
30	P16	ROS	0025	BE	38	49 17 00	134 39 80		3606		(85-87 SURF)			DEEP CAST
		ROS	0112	BO	38	49 17 04	134 39 99			3677	85R-108	24		85-87R = Rosette
		ROS	0226	EN	38	49 16.96	134 39 97							#10 NIGHT TRIP
30	P17	CTD	0653	BE	39	49°20.93	135°39.92							See note ←, Close all
			0749	BO	39	49°20.97	135°39.94			3600	109	24		bottles @ surface to check
			0830	EN	39	49°20.98	135°39.97		3444					pilot -all bottles fired
30	P18	CTD	1247	BE	40	49 26.05	136.39.92		3801					
			1329	BO	40	49 26.03	136 39.92			3896	110	1		
			1408	EN	40	49 25 99	136 40.03							
30	P19	CTD	1845	BE	41	49°30.04	137°39.98		3895					
			1954	BO	41	49°30.06	137°40.06		3970		111	1		
			2042	EN	41	49°30.06	137°40.08							

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The ship proceeded to Port Alberni @ 9:00 PM PDT, Sept. 1. (Arrival)

Sept. 2 - unable to proceed because of the seriousness of the shaft seal problem.

- unable to repair the shaft seal and engineering help was not available on the long weekend.

- Keith Johnson left on the night of Sept. 1 with Howard Freeland, Tim Soutar, the following day.

TIM SOUTAR WORK 363-6414
 HOME 479-9599

Sept. 3 (Labor Day). The ship is still disabled and cannot be fixed.

Sept. 4, 0914 (LOCAL). STOPPED Thermosalinograph Rb.

Sept. 4, 1400 PDT Departed Port Alberni for Victoria

Sept. 5. Held station outside Victoria till 0730, then proceeded to dock at Huron Street Base.

Sept. 5. 1300 PDT Victoria Shipyard's engineer here to evaluate the stern seal problem.

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