

9104

CRN

9104

DAILY LOG

INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

Feb. 21, 1991 - Feb 25

VESSEL

Parizeau

PROJECT

PERD - T&C

Captain: P. Frost
Second Officer: AT Ranger

First Officer: Bob Lynch
Third Officer: D. Gibson

Cruise Participants/Agencies:

IOS Tides & Currents, Ocean Physics

Scientific Personnel: Party Chief: M. Woodward 8-12 A

name	watch	cabin	name	watch	cabin
<u>de Lange Boom</u>	<u>12-4</u>	<u>B</u>			
<u>Datosh</u>	<u>4-8</u>	<u>C</u>			
<u>Sinnott</u>	<u>4-8</u>	<u>D</u>			
<u>Sutherland</u>	<u>8-12</u>	<u>E</u>			
<u>Pearson</u>	<u>12-4</u>	<u>G</u>			

second leg of cruise: Party Chief:

third leg of cruise: Party Chief:

DATA LOGGING SYSTEM: Unit number: 1 program ver. 1.10
CTD deck unit make: Guildline model: 87107 serial no.: 58610
Computer make: HP Vector model: 05/80 serial no.: 07169
monitor make: _____ model: _____ serial no.: _____
printer make: _____ model: _____ serial no.: _____

1st CTD make: Guildline model: 8705 serial no.: 41713
temperature sensor model: _____ serial no.: _____
coefficients: slope: 1.0006 offset: 0.0264
conductivity sensor model: _____ serial no.: _____
coefficients: slope: 1.0024 offset: -0.0022
pressure sensor range: _____ psi serial no.: _____
coefficients: FSP: 1500 dB offset: 0.0000
transmissometer model: _____ serial no.: _____
coefficients: slope: _____ offset: _____
Comments: _____

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YEAR	1991	MONTH	Feb.	TIME ZONE	GTT	SHIP	Parizeau	CRUISE	9104	PAGE	1 OF 6		
DAY	STATION IDENTIFICATION	DEPTH SOUNDING (m)	SHIP STOP/START TIME	LATITUDE/ LONGITUDE	STD CONSEC. #	STD TIME	HYDRO CONSEC. #	MESSENGER TIME	HYDRO SALINITY #	OXYGEN #	SURFACE TEMPERATURE/ SALINITY	LOOP SALINITY #	NOTES
22	GR06	280	52 12.00 130 28.50	1	0006								
22	GR05	190	52 12.00 130 34.54	2	0052								
22	GR04	190	0138 52 12.00 0149 130 40.90	3	0139 0144								
22	GR03	200	0218 52 12.00 0231 130 47.42	5	0223 0227								cast #4 was aborted but file still created
22	GR02	210	0255 52 12.00 0309 130 52.00	6	0257								
22	GR01	155	0330 52 12.00 130 56.00	7	0336								
22	M000	125	2319 52 38.45 1531 129 20.45	8	2323								5 kt S wind
23	M001	95	0058 52 37.59 0105 129 33.38	9	0059 0102								
23	M002	170	0135 52 36.94 0143 129 37.81	10	0137 0140								Computer clock reset after this station: was ~ 3 min slow RHB.
23	M003	183	0230 52 35.47 0248 129 47.17	11	0239 0243								
23	M004	255	0327 52 33.87 0345 129 56.57	13	0336 0341								Cast #12 was aborted/ but file still created.
23	M005	295	0420 52° 32.60 130° 03.80	14	0425								attempted calibration sample, but bottle failed to trip.

Calibration bottle taken at 200m, sta M005, 22 Feb 1991

Salinity stable at $33.81\% \pm 0.003\%$

Temperature

$7.095^{\circ}\text{C} \pm 0.005^{\circ}\text{C}$

CR

0.80102

Cancel - Bottle did
not flip.

YEAR	1991	MONTH	Feb	TIME ZONE	GMT	SHIP	Pantheon	CRUISE	9104	PAGE	2 OF 6		
DAY	STATION IDENTIFICATION	DEPTH SOUNDING (m)	SHIP STOP/START TIME	LATITUDE LONGITUDE	STD CONSEC. #	STD TIME	HYDRO CONSEC. #	MESSANGER TIME	HYDRO SALINITY #	OXYGEN #	SURFACE TEMPERATURE/ SALINITY	1000P SALINITY #	NOTES
23	M006	300	0518	52° 31.40' 130° 11.00'	15	0520	0529	1	33.862 (265m)				See over for values from CTD & bottle throws
23	M007	250	0618	52° 30.00 130° 20.00	16	0620							Sea lt chop. Wind 210° T at 10 km
23	M008	170	0709	52° 28.50 130° 29.00	17	0710							Wind 225° at 15 km
23	M009	130	0755	52° 26.90 130° 38.20	18	0758							Wind 180° @ 10 kt
23	M010	105	0840	52° 25.50 130° 47.00	19	0843							Wind 180° @ 10 kt
23	M011	135	0923	52° 24.00 130° 56.00	20	0927					2	31980	Wind var @ 5 kt
23	M012	115	1013	52° 22.55 131° 06.00	21	1015					3	32270	Wind var @ 5 kt
24	CJ06	1950	0155	51. 47.00 131 13.79	22	204							Wind 170° @ 10 Knt (1000m)
24	CJ05	2030	0252	51 50.44 131 9 90	23	0258 0309							Wind (1000m) @ Kts light variable
24	CJ04	1870	0339	51 51.74 131 7.4	24	342 0353							
24	CJ03	1200	0420	51° 53.00 131° 05.50	25	0422							Wind 160° 5 km
24	CJ02	200		51° 54.60 131° 03.30'	26	0508							-low westerly swell - light chop.

Sample bottle at 265m on M006 Feb 23, 1991

Salinity $33.888\text{‰} \pm 0.005\text{‰}$
temperature $6.610^{\circ}\text{C} \pm 0.004^{\circ}\text{C}$
CR $0.79280 \pm \sim 0.00020$

Thermometers
for M006
at 265

SY7641
aux main
12.0 6.75
12.7 6.76

3189
aux main
11.5 6.75
12.5 6.78

SY6567
aux main
11.0 9.4
11.4 9.38

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DAY	STATION IDENTIFICATION	DEPTH SOUNDING (m)	SHIP STOP/START TIME	LATITUDE/ LONGITUDE	STD CONSEC #	STD TIME	HYDRO CONSEC #	MESSENGER TIME	HYDRO SALINITY #	OXYGEN #	SURFACE TEMPERATURE/ SALINITY	LOOP SALINITY #	NOTES
24	JS03	190		51° 53.30' 130° 56.10	27	0629							Logged on ID JS02 in error! Needs edit!
24	JS04	250		51° 50.40' 130° 51.50'	28	0708							
24	JS05	835	0800 0830	51° 44.00' 130° 39.30'	29	0805							wind 210 Deg @ 5k
24	JS06	1130	0908 1000	51° 39.60 130° 31.70	30	0913	0935	4	34.365 (1070m)		5	32.379	see over for CTD/bottle therm wind S @ 5 kt CTD surface temp 7.06 ° Wind Light + Variable
24	MC17	350	1152 1207	51° 57.30 130° 34.92	31	1156							
24	MC18	230	1308 1320	51° 57.27 130° 47.54	32	1311 1316							Wind Light + Variable
24	*MC19	180	1335 1345	51° 57.29 130° 50.31	33	1338 1341							*labelled as MC17 not 19 Light + Variable
24	MC20	135	1407 1415	51° 57.31 130° 55.26	34	1409 1411					6	31.966	
24	MC21	100	1432 1437	51° 57.31 130° 58.24	35	1433 1435							wind Light + Variable broke off run for site SP01
24	MC16	420	1912 1930	51° 57.30 130° 27.00	36	1915							line resumed from break last dragging.
24	MC15	305	2009 2024	51° 57.43 130° 18.28	37	2013					7	31.940	Wind calm
24	MC14	180	2058 2108	51° 57.36' 130° 10.48'	38	2102							wind calm

Sample bottle at 1070 m on JSØ6 Feb 24, 1991

Sal. 34.393 $\pm$ 0.003 PSU
Temp 3.213 $\pm$ 0.003 °C
Cond. Ratio 0.74158 $\pm$ 0.00001

Thermometers for JSØ6 at 1070m	SV7641		3189		SV8567	
	aux	main	aux	main	aux	main
	16.8	3.49	15.7	3.50	13.5	13.85
	18.8	3.55	18.5	3.55	17.5	13.95

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YEAR / 991		MONTH Feb		TIME ZONE GMT		SHIP Parizeau		CRUISE 9104		PAGE 4 OF 6			
DAY	STATION IDENTIFICATION	DEPTH SOUNDING (m)	SHIP STOP/START TIME	LATITUDE / LONGITUDE	STD CONSEC. #	STD TIME	HYDRO CONSEC. #	MESSENGER TIME	HYDRO SALINITY #	OXYGEN #	SURFACE TEMPERATURE / SALINITY	LOOP SALINITY #	NOTES
24	MC13	145	2145 51° 57.36N 2155 130° 02.30W	39	2146								
24	MC12	130	2227 51° 57.30 2235 129° 54.30	40	2229						8	31.755	
24	MC11	125	2308 51° 57.30 2315 129° 46.10	41	2310								
24	MC10	190	2336 51° 55.30 2345 129° 42.30	42	2338								wind variable, light to 5 kt
25	MC09	240	0011 51° 52.85 129° 38.45	43	0012								wind lt. + variable
25	MC08	267	0045 51° 50.51 0057 129° 34.01	44	0048 0053								
25	MC07	245	0145 51° 48.00 0154 129° 32.00	45	0147 0151								wind 12 kts @ 000
25	MC06	205	0213 51° 46.22 0223 129° 29.97	46	0215 0218								wind 10 kts @ 000 Held A/T 5 to long and Consec # went to 47
25	MC05	90	0241 51° 44.37 02 129° 28.75	47	0242 0244								light + variable
25	MC04	56	0323 51° 40.19 0327 129° 23.01	48	0324 0325								
25	MC03	58	51° 35.30 129° 18.30	49	0415								
25	MC02	57	51° 35.30 129° 10.00	50	0449								

1991

MONTH

Feb

TIME ZONE

GMT

SHIP

Partiŕen

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DAY	STATION IDENTIFICATION	DEPTH SOUNDING (m)	SHIP STOP/START TIME	LATITUDE/ LONGITUDE	STD CONSEC #	STD TIME	HYDRO CONSEC #	MESSENGER TIME	HYDRO SALINITY #	OXYGEN #	SURFACE TEMPERATURE/ SALINITY	LOOP SALINITY #	NOTES
25	C009	232	13:40 51°21.22 13:53 128°54.39	63	1343							11 31.628	
25	C011	205	14:50 51°15.32 15:00 128°52.04	64	1452								
25	C013	114	15:33 51°10.05 15:41 128°49.01	65	1536								
25	C015	67	16:15 51°05.00' 16:20 128°46.30'	66	1616								
25	C017	77	16:55 50°59.48' 17:02 128°43.30'	67	1657								
25	C019	77	17:43 50°55.12 128°37.36	68	1745								
25	C21	57	18:20 50°51.30' 18:24 128°32.10'	69	1821								
25	C22	88	18:41 50°49.18' 18:48 128°29.18'	70	1842								
25	C23	50	19:02 50°48.06' 19:10 128°27.30'	71	1903								
END													