

EXPEDITION PLAN AND ITINERARY

DEPARTMENT: DFO, Ocean Sciences and Productivity Division

MISSION NO: 2007-01

CCG PATROL NO: 06-12

MISSION AREA: Line P, Station Papa, Line R, North-East Pacific, Rivers Inlets

MISSION OBJECTIVE: Repeat hydrography section.

SHIP: John P. Tully

DATE, FROM: 7 Feb **TO:** 27 February 2007

SENIOR SCIENTIST: Marie Robert

SCIENTIFIC PERSONNEL: 12 berths required

Female	Male
Janet Barwell-Clarke	Doug Anderson
Jian Guo (UBC)	Michael Arychuk
Hollie Johnson	Michael Bentley
Lora Pakhomova (UBC)	Keith Johnson
Marie Robert	Benoît Montpetit
	Doug Moore
	David Semeniuk (UBC)

SHIP EQUIPMENT REQUIRED: depth sounder, sea water supply to lab and heli-deck, heave compensator, tugger winch, Zodiac and/or 733.

DECK MACHINERY REQUIRED:

Note: The details are on the deck plan, at the end.

OTHER EQUIPMENT TO BE LOADED: Scientific gear (lab instruments, sampling equipment, etc.), container.

ANTICIPATED LOADING TIME: Half-day. Loading will start at 1300 on February 7 after the Dewey cruise will be offloaded.

DANGEROUS CHEMICALS:

[INCLUDING MATERIAL SAFETY DATA SHEETS AND WHMIS LABELS]

Separate list to follow, to be handed to the Chief Officer before departure.

Radioisotopes will be used.

Station List:

Station	Latitude deg min N	Longitude deg min W	Bottom Depth m	Sampling
Underway sampling survey				
JF1	48 16.00	123 30.00	150	under way
JF2	48 18.00	124 00.00	180	under way
JF3	48 27.00	124 30.00	230	under way
JF4	48 32.30	125 00.00	60	under way
Line P CTD and water sampling survey				
P1	48 34.5	125 30.0	120	CTD B-10
P2	48 36.0	126 00.0	114	Rosette B-10, Bongo
P3	48 37.5	126 20.0	730	CTD B-10
P4	48 39.0	126 40.0	1300	Rosette B-10, Bongo, Go-flos
P5	48 41.5	127 10.0	2100	CTD 2000 m
P6	48 44.6	127 40.0	2500	CTD 2000 m
P7	48 46.6	128 10.0	2450	CTD 2000 m
P8	48 49.0	128 40.0	2440	Rosette 2000 m, Bongo
P9	48 51.4	129 10.0	2340	CTD 2000 m
P10	48 53.6	129 40.0	2660	CTD 2000 m
P11	48 56.0	130 10.0	2700	CTD 2000 m
P12	48 58.2	130 40.0	3300	Rosette B-10, Bongo, Go-flos
P13	49 02.6	131 40.0	2875	CTD 2000 m
P14	49 07.4	132 40.0	3275	CTD 2000 m
P15	49 12.0	133 40.0	3200	CTD 2000 m
P16	49 17.0	134 40.0	3550	Rosette B-10, Bongo, Go-flos
P17	49 21.0	135 40.0	3200	CTD 2000 m
P18	49 26.0	136 40.0	3775	CTD 2000 m
P19	49 30.0	137 40.0	3850	CTD 2000 m
P20	49 34.0	138 40.0	3890	Rosette B-10, Bongo, Go-flos
P21	49 38.0	139 40.0	3840	CTD 2000 m
P22	49 42.0	140 40.0	3880	CTD 2000 m
P23	49 46.0	141 40.0	3970	CTD 2000 m
P24	49 50.2	142 40.0	3910	CTD 2000 m
P25	50 00.0	143 36.3	3890	CTD 2000 m
P35	50 00.0	144 18.2	4170	CTD 2000 m
P26	50 00.0	145 00.0	4250	Rosette B-10, Bongo, Go-flos
P41	50 27.00	145 00.00	4270	CTD 2000 m
P32	50 54.00	145 00.00	4270	CTD 2000 m
P49	50 54.00	144 17.20		CTD 2000 m
P33	50 54.00	143 35.50	3660	Rosette to 2000 m
R20	50 55.70	143 01.00	3620	CTD 2000 m
R19	50 58.00	142 20.00	3930	CTD 2000 m
R18	51 00.00	141 39.00	3900	CTD 2000 m
R17	51 02.00	140 56.00	3900	Rosette to 2000 m
R16	51 04.00	140 14.00	3800	CTD 2000 m
R15	51 06.00	139 30.50	3000	CTD 2000 m

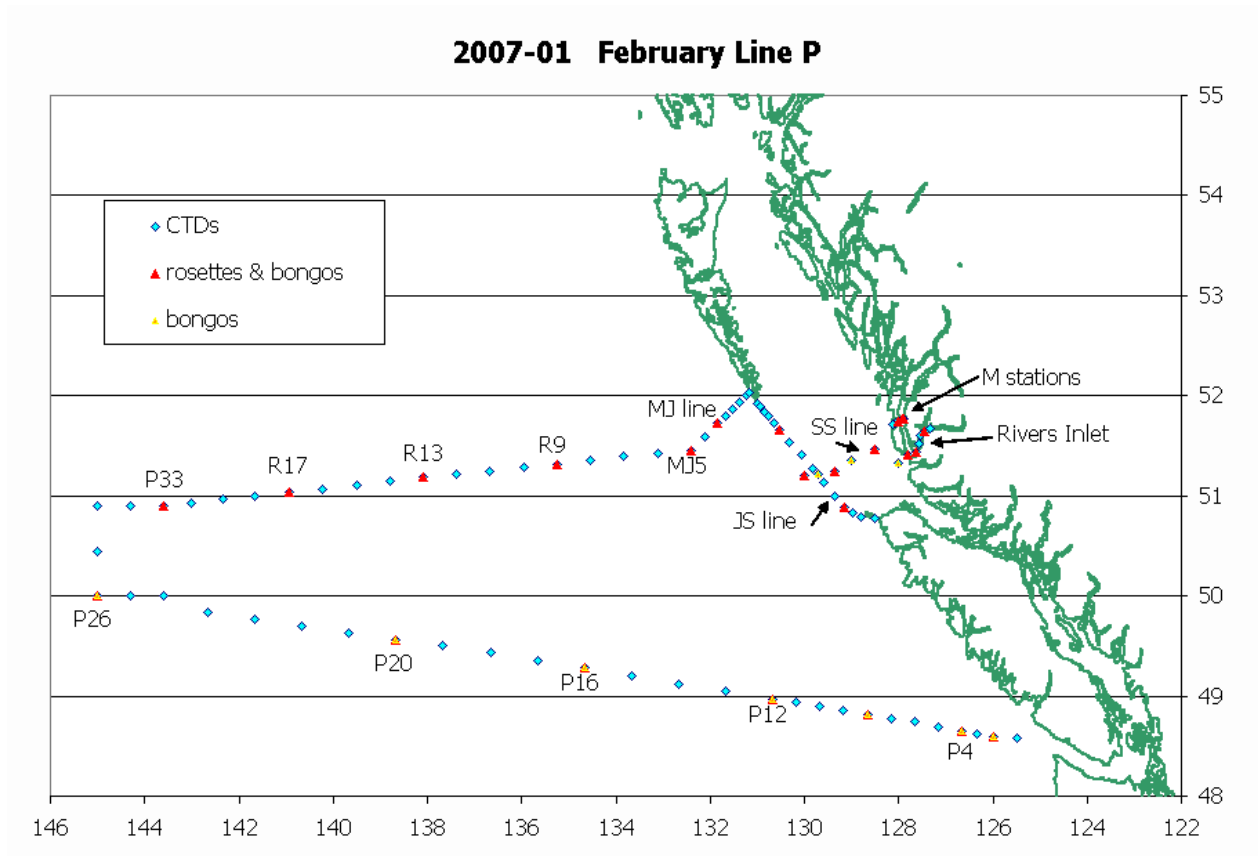
R14	51 09.00	138 47.50	2910	CTD 2000 m
R13	51 11.00	138 06.00	3680	Rosette to 2000 m
R12	51 13.00	137 23.00	3670	CTD 2000 m
R11	51 15.00	136 40.30	3650	CTD 2000 m
R10	51 17.00	135 57.60	3660	CTD 2000 m
R9	51 19.00	135 15.00	3515	Rosette to 2000 m
R8	51 21.20	134 32.70	3370	CTD 2000 m
R7	51 23.50	133 49.60	3200	CTD 2000 m
R6	51 25.50	133 06.60	3000	CTD 2000 m
MJ5	51 27.50	132 24.00	2765	Rosette to 2000 m
MJ4	51 35.60	132 06.50	2564	CTD
MJ3	51 43.50	131 50.00	2320	Rosette B-10
MJ2a	51 47.50	131 40.70	2065	CTD
MJ2	51 51.60	131 32.00	2115	CTD
MJ1a	51 55.70	131 22.70	1880	CTD
MJ1	52 00.00	131 14.00	639	CTD
MJ0	52 02.00	131 10.30	79	CTD
JS01	51 55.00	130 59.50	76	CTD
JS02	51 53.30	130 56.10	90	CTD
JS03	51 50.40	130 51.50	189	CTD
JS04	51 47.90	130 46.50	251	CTD
JS05	51 44.00	130 39.30	730	CTD
JS06	51 39.60	130 31.70	1119	Rosette B-10
JS07	51 32.40	130 18.80	989	CTD
JS08	51 24.30	130 03.90	680	CTD
JS09	51 16.10	129 49.30	260	CTD
JS10	51 07.90	129 34.80	265	CTD
JS11	51 00.00	129 20.80	183	CTD
JS12	50 53.00	129 08.30	61	Rosette B-10
JS13	50 49.60	128 58.30	114	CTD
JS14	50 47.30	128 47.70	113	CTD
JS15	50 46.70	128 30.90	71	CTD
SS1	51 12.00	130 00.00	490	Rosette B-10
SS2	51 13.00	129 43.00	580	CTD, Bongo
SS3	51 15.00	129 21.30	285	Rosette B-10
SS4	51 21.00	129 00.00	235	CTD, Bongo
SS5	51 28.00	128 30.00	195	Rosette B-10
SS6	51 20.00	128 00.00	170	CTD, Bongo
SS7	51 24.70	127 47.60	120	Rosette B-10
Ri 1	51 26.4	127 38.1	327	Rosette B-10, Bongo
Ri 2	51 31.25	127 33.6	322	CTD, Bongo
Ri 3	51 35.9	127 32.1	316	CTD, Bongo
Ri 4	51 38.9	127 26.7	294	Rosette B-10, Bongo
Ri 5	51 40.7	127 19.9	194	CTD, Bongo
M2	51 46.46	127 53.20	170	Rosette
M3	51 46.27	127 54.60	325	Rosette
M4	51 44.65	128 00.20	420	Rosette
M5	51 43.40	128 03.60	330	CTD
M6	51 42.65	128 07.40	245	CTD

Note: Only some MJ and JS stations will be chosen depending on how much time is left at the end of the cruise. Some might be added if the weather is too rough to go offshore at start of cruise.

Itinerary

Feb 7	Load at IOS at 1300 (might be earlier, will know closer to Feb 7)
Feb 8	Do Saanich Inlet rosette casts for UBC. Depart to P1 when sampling completed.
Feb 15	Arrive at Station Papa.
Feb 16	Start Line R
Feb 22	Start Line SS.
Feb 23	Sample Rivers/Fitz Hugh Sound.
Feb 24	Start heading to IOS (maybe via the West Coast of Vancouver Island)
Feb 26	Arrive to IOS and offload.

Cruise track

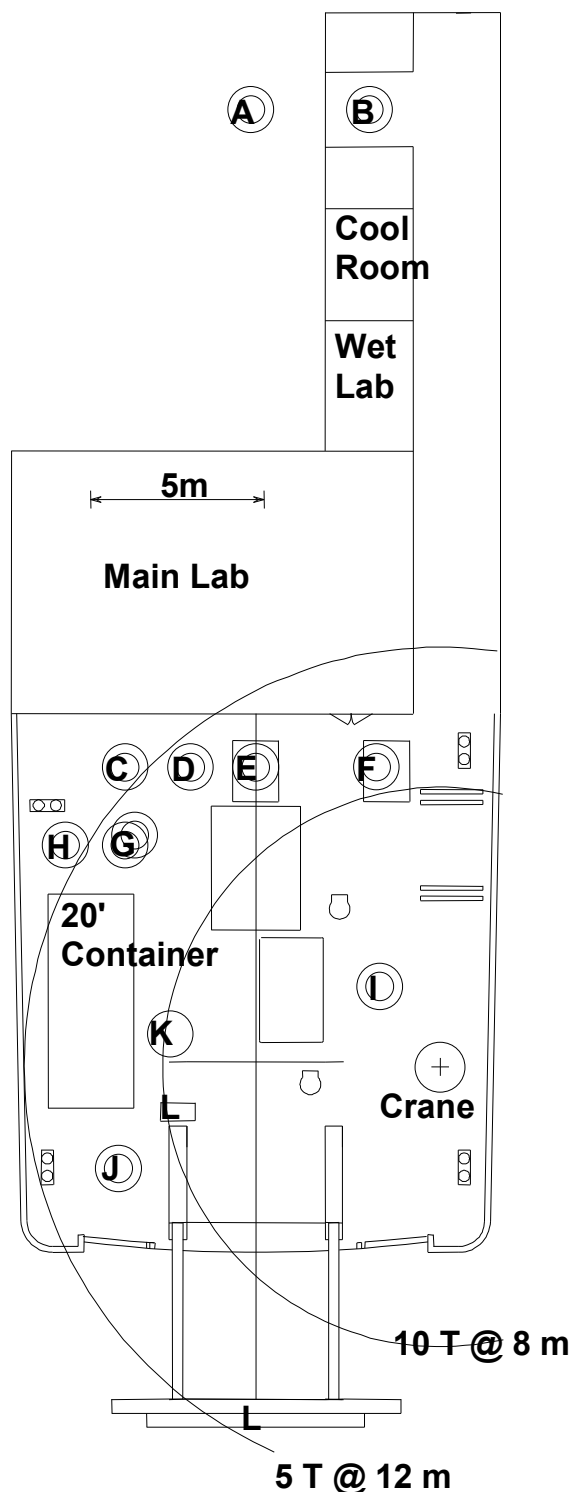


CCGS John P. Tully

Deck Lay Out: Station P Cruise,
M. Robert

Cruise ID: 2007-01

Date : Feb. 7 – 27, 2007



A:	Not Required
B:	Hydro Winch 310 #1082 c/w 4730m x 5/32" (3x19) wire
C:	Not Required
D:	Work Winch 589 #515c/w 2910 m x 5x16" (3x19) wire
E:	CTD Winch #17027c/w 6100m x .322" x 3cdr cable
F:	CTD Winch #17026 c/w 3280m x .322" x 7cdr cable
G:	Not Required
H:	Not Required
I:	Not Required
J:	Not Required
K:	Capstan Required
L:	Heave Compensator Required
Crane	Required
Aft A-Frame	Required
Stbd. A-Frame	Not Required
20' Container	Required

Comments:

- Please also load, 2 Osco 20" CTD blocks, and an Omron counter for each winch.
- The Heave Compensator and Tully Tugger operational c/w spares are required. (Ship's Engineers, please)
- Trace-Metal sheave and rollers needed for breeze-way hydro winch 310 #1082