

EXPEDITION PLAN AND ITINERARY

DEPARTMENT: DFO, Ocean Sciences and Productivity Division

MISSION NO: 2008-01

CCG PATROL NO: 07-12

MISSION AREA: Line P, Station Papa, Line R, Bowie Seamount, Rivers Inlets

MISSION OBJECTIVE: Repeat hydrography section, service moorings.

SHIP: John P. Tully

DATE, FROM: 29 January 2008

TO: 19 February 2008

SENIOR SCIENTIST: Marie Robert

SCIENTIFIC PERSONNEL: 17 berths required

Female	Male
Karina Giesbrecht (UVic)	Patrick A'Hearn (NOAA)
Maria Kavanaugh (OSU)	Doug Anderson
Anissa Merzouk (UBC)	Michael Arychuk
Wendy Richardson	Michael Bentley (CWS)
Marie Robert	John Dower (UVic)
Jody Wright (UBC)	Robert Kamphaus (NOAA)
Marnie Jo Zirbel (OSU)	Hugh Maclean
	Doug Moore
	Akash Sastri (UVic)
	Chuck Stump (UW)

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

DECK MACHINERY REQUIRED:

Note: The details are on the deck plan, to follow.

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

ANTICIPATED LOADING TIME: Half-day. Loading will start at 1300 on 29 January after crew change. The ship will be offloaded on 18 February afternoon at the latest, Richard Dewey to get the ship on 19 February.

DANGEROUS CHEMICALS:

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
Saanich Inlet				
SI03	48°35.6	123°30.0	225	Rosette to B-10 for IOS
SI03	48°35.6	123°30.0	225	Rosette to B-10 for UBC
				UBC people to leave
Underway sampling survey				
JF1	48 16.0	123 30.0	150	under way
JF2	48 18.0	124 00.0	180	under way
JF3	48 27.0	124 30.0	230	under way
JF4	48 32.3	125 00.0	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
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, Argo
P11	48 56.0	130 10.0	2700	CTD 2000 m
P12	48 58.2	130 40.0	3300	Rosette B-10, Bongo
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
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
P21	49 38.0	139 40.0	3840	CTD 2000 m, Argo
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, Bongos, Moorings, glider, Argo
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

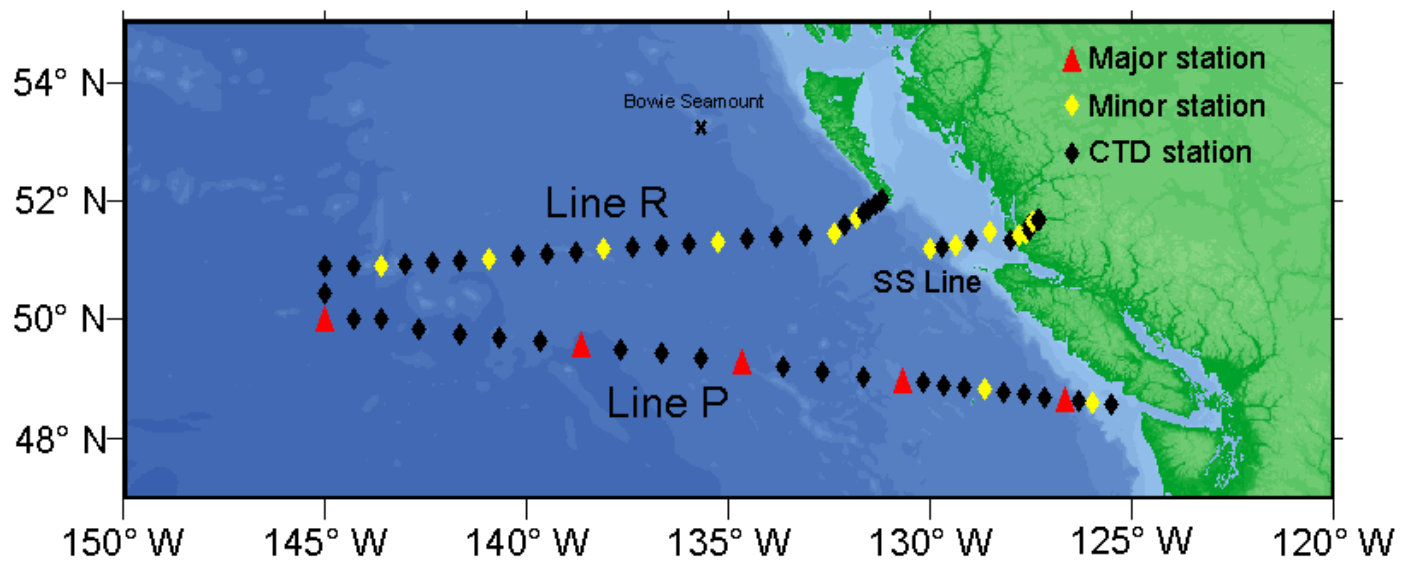
R14	51 09.00	138 47.50	2910	CTD 2000 m
R13	51 11.00	138 06.00	3680	Rosette to 2000 m
R12	51 13.00	137 23.00	3670	CTD 2000 m
R11	51 15.00	136 40.30	3650	CTD 2000 m
R10	51 17.00	135 57.60	3660	CTD 2000 m
Bowie Smt	53°17'58.40	135°39'02.21	24	Mooring
R9	51 19.00	135 15.00	3515	Rosette to 2000 m
R8	51 21.20	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
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
Ri 6	51 40.5	127 17.0	135	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: some 'R' stations and the 'MJ' stations could be replaced by eddy stations.

Itinerary

Jan 29	Load at IOS at 1300.
Jan 30	Do Saanich Inlet rosette casts for UBC and IOS. Depart to P1 when sampling completed.
Feb 6	Arrive at Station Papa.
Feb 10	Start Line R, chase eddies?
Feb 13	Deploy mooring at Bowie Seamount
Feb 15	Sample Rivers/Fitz Hugh Sound.
Feb 17	Start heading to IOS
Feb 18	Arrive at IOS and offload.

Cruise track

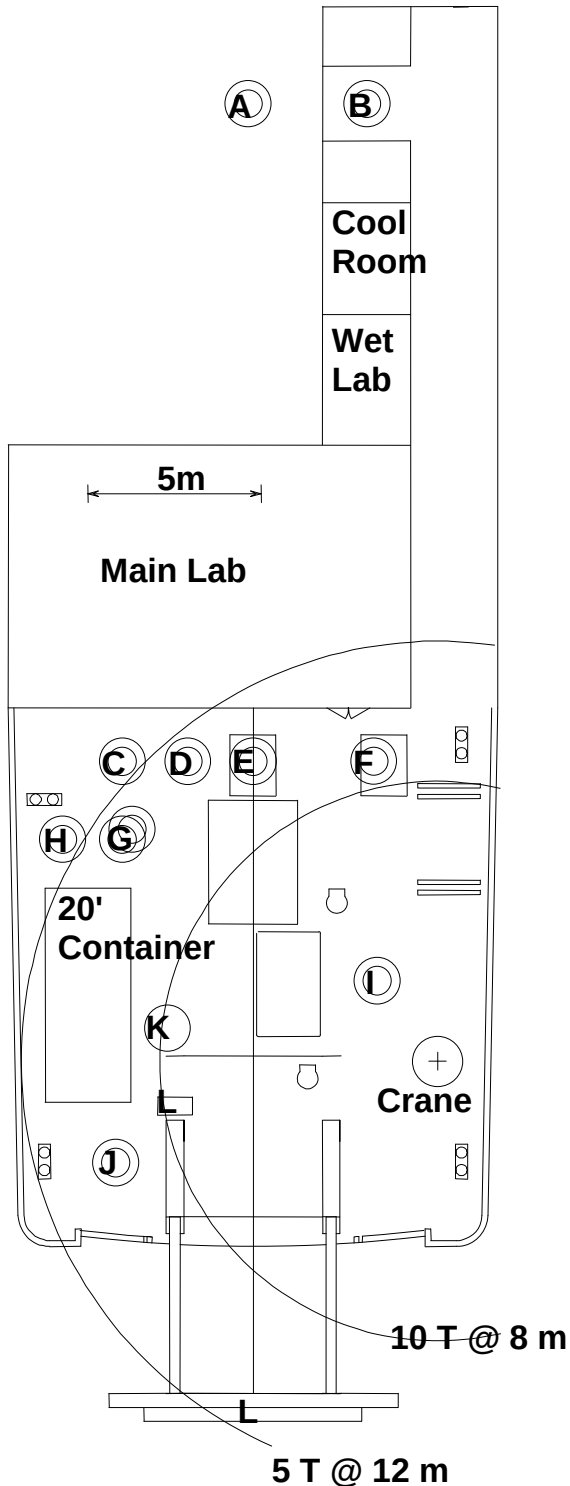


CCGS John P. Tully

Deck Lay Out: Station P Cruise,
M. Robert

Cruise ID: 2008-01

Date : Jan. 29 – Feb 19, 2008



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)