

## EXPEDITION PLAN AND ITINERARY

**DEPARTMENT:** DFO, Ocean Sciences Division

**MISSION NO:** 2012-13

**CCG PATROL NO:** 12-06

**MISSION AREA:** Line P, Station Papa.

**MISSION OBJECTIVE:** Repeat hydrography section, extensive Trace Metal sampling.

**SHIP:** John P. Tully

**DATE, FROM:** 14 August 2012

**TO:** 30 August 2012

**SENIOR SCIENTIST:** Marie Robert      363.6612      marie.robert@dfo-mpo.gc.ca

**SCIENTIFIC PERSONNEL:** 15 berths required

Female	Male
Amy Cain (UBC)	Michael Arychuk (IOS)
Annie Cox (UBC)	Glenn Cooper (IOS)
Desirée Dillman (UVic)	Jay Cullen (UVic)
Jennifer Forscutt (UVic)	Dave Janssen (UVic)
Moira Galbraith (IOS)	Ernesto Martinez (U.Berkeley)
Nina Nemcek (IOS)	Scott Rose (IOS)
Marie Robert (IOS)	
Christina Schallenberg (UVic)	
Nina Schuback (UBC)	

**SHIP EQUIPMENT REQUIRED:** EK60 functioning, EA600 functioning, EA600 remote display available from the bridge and the new CTD lab, GPS in lab/CTD lab functioning, both DD20s functioning in the main lab, sea water supply to lab and heli-deck, heave compensator, tugger winch.

### DECK MACHINERY REQUIRED:

**Note:** The details are on the deck plan, see last page.

**OTHER EQUIPMENT TO BE LOADED:** Scientific gear (lab instruments, sampling equipment, etc.), aft-deck container, Rad-Van, Trace Metal container, incubators on the heli-deck.

**ANTICIPATED LOADING TIME:** Half-day. Loading will start on Tuesday August 14 at 1400 after crew change.

**DANGEROUS CHEMICALS:**

Separate list to follow, to be handed to the Chief Officer before departure. Radioisotopes will be used during this cruise (C<sup>14</sup>)

**Station List:**

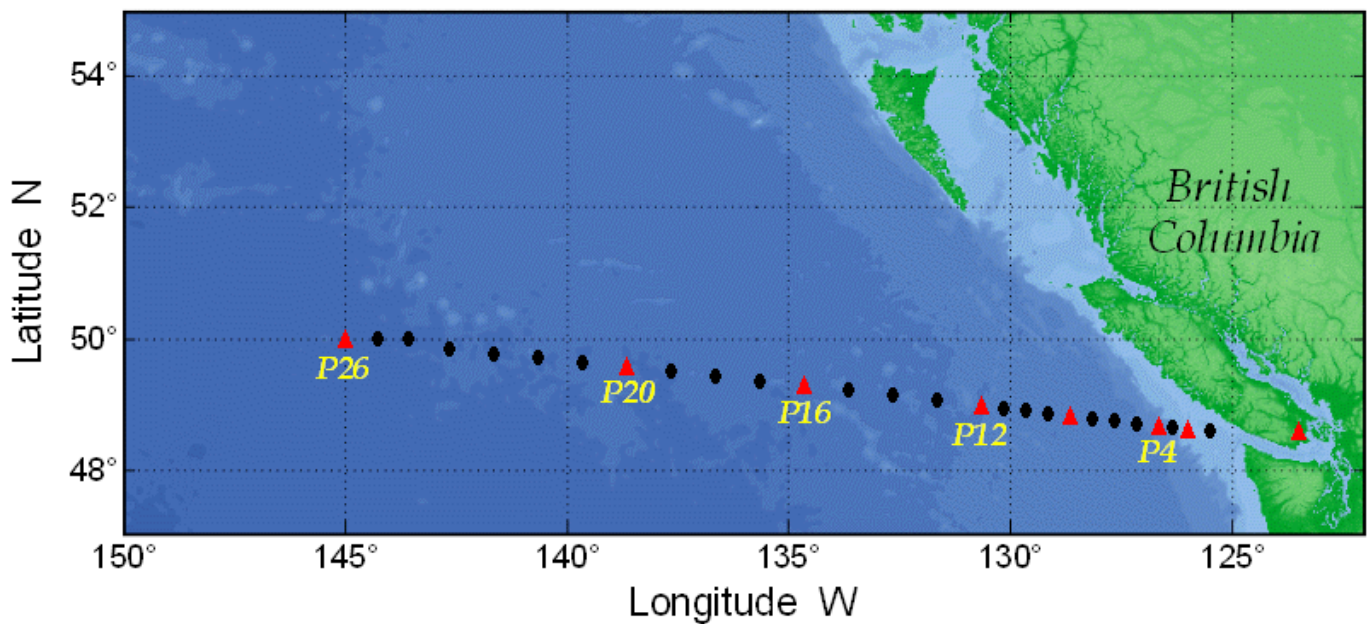
Station	Latitude deg min N	Longitude deg min W	Bottom Depth m	Sampling
Saanich Inlet				
SI03	48°35.6	123°30.0	225	Rosette to B-10 for IOS
Underway sampling survey				
JF1	48 16.0	123 30.0	150	under way
JF2	48 18.0	124 00.0	180	under way
JF3	48 27.0	124 30.0	230	under way
JF4	48 32.3	125 00.0	60	under 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	Major Station (see below)
P3	48 37.5	126 20.0	730	CTD B-10
P4	48 39.0	126 40.0	1300	Major Station
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	Major Station
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	Major Station
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	Major Station
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	Major Station, 24-hr Iron cycle experiment (chains)
PA-006	50 03.56	144 54.05	4233	Rosette
P4	48 39.0	126 40.0	1300	Rosette
Neptune	48 25.643	126 10.448	410?	Rosette
LB08	48 25.30	125 28.65	150	Rosette

**Major Station: Many Rosette casts; Many Trace Metal Rosette casts, Bongos to 250 m and 1200 m; Go-flos to bottom.**

## Itinerary

- August 14 Start loading at IOS after crew change (1400). Maybe (hopefully) leave after dinner, or else Wednesday morning. Do Saanich Inlet rosette cast. Depart to P1 when sampling completed.
- ~August 24 Arrive at Station Papa.
- ~August 26 Leave Station Papa.
- August 30 Arrive at IOS and offload.

## Cruise track

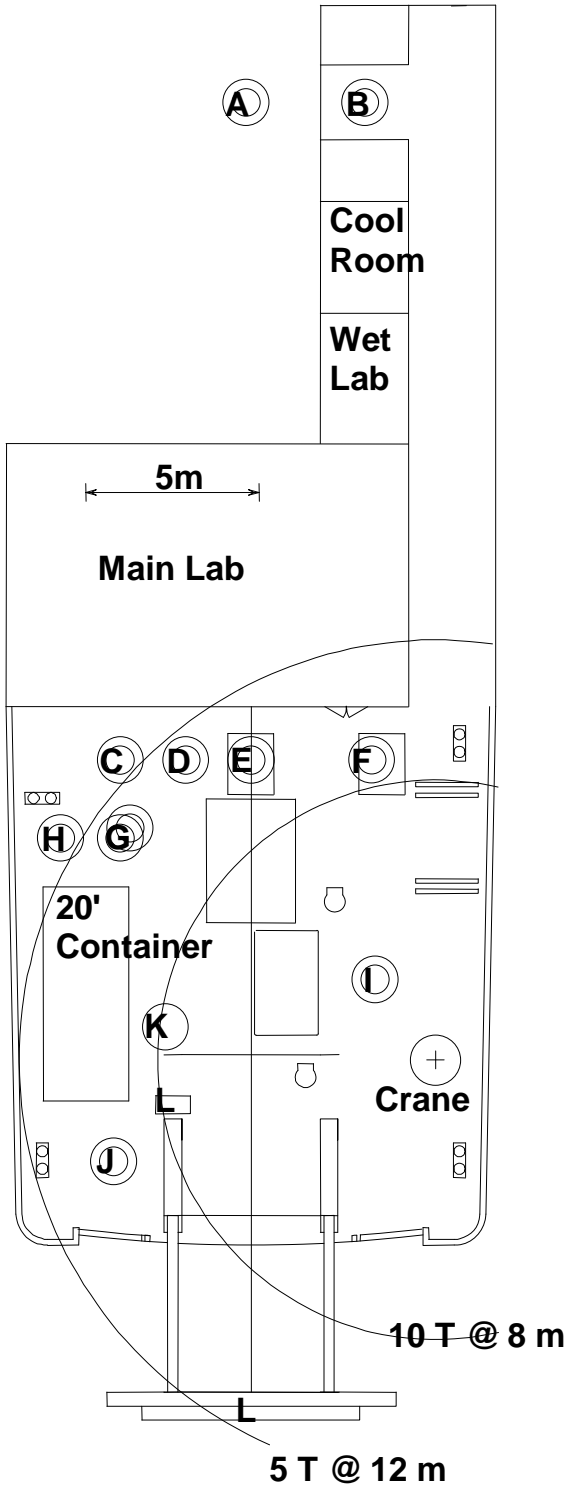


# CCGS John P. Tully

Deck Lay Out: **Station P Cruise, M. Robert**

Cruise ID: **2012-13**

Date : **Aug 14<sup>th</sup> to 30<sup>th</sup>, 2012**



A:	Empty
B:	Not there anymore
C:&D:	Trace Metal Lab Container
E:	Trace Metal Winch (U-Vic's)
F:	CTD Winch #17027 c/w 4500m x .322"Ø x 3 cdr cable
G:	Empty
H:	Empty
I:	Hydro (Bongo) winch 420 #1432 c/w 2650 m x 5/32" X 3x19
J:	Empty
K:	<b>Not Required</b>
L:	Heave Compensator Required
Crane	Required
Aft A-Frame	Required
B.D. Hydro #1076-01	Kevlar: ¼" x 4550 m
Hawboldt CTD (BD)	#17026 c/w 5200m x .322"Ø x 3 cdr
Stbd. A-Frame	Not Required
20' Container	Required
Rad Van (BD)	Required

## Additional Comments:

- Hawboldt spares box to be loaded.
- Boat Deck (BD) Hydro now fully loaded with ~4550 m Kevlar line.
- Please also load, 2 Oasco 20" CTD blocks. The Heave Compensator and Tully Tugger operational c/w spares are required.