

EXPEDITION PLAN AND ITINERARY

DEPARTMENT: DFO, Ocean Sciences Division

MISSION NO: 2012-12

CCG PATROL NO: 12-03

MISSION AREA: Line P, Station Papa.

MISSION OBJECTIVE: Repeat hydrography section, service moorings, drifting sediment traps at Papa. Recover drifter near Papa. Deploy a drifter at P20 on the way out and recover it on the way back.

SHIP: John P. Tully

DATE, FROM: 22 May 2012

TO: 7 (9) June 2012

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

SCIENTIFIC PERSONNEL: 17 berths required

Female	Male
Desiree Dillman (UVic)	Michael Arychuk (IOS)
Aria Hahn (UBC)	Michael Bentley (CWS/EC)
Jennifer Keene (NOAA)	Seth Bushinsky (UW)
Wendy Richardson (IOS)	Michael Craig (NOAA)
Marie Robert (IOS)	Dave Janssen (UVic)
Christina Schallenberg (UVic)	Roger Kelly (URI)
Nina Schuback (UBC)	Brendan Mackinson (URI)
	Hugh Maclean (IOS)
	Kyle Simpson (IOS)
	Doug Yelland (IOS)

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, to follow.

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

ANTICIPATED LOADING TIME: Half-day. Loading will start on May 22 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 (C¹⁴)

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 ,moorings, drifting sediment traps, 24-hr Iron cycle experiment (chains)

Major Station: Many Rosette casts; Bongo to 250m; either bongo to 1000 m or Multinet to 2000m; Go-flos to 2000m; in-situ pumps off the aft-deck.

Itinerary

May 22	Start loading at IOS after crew change. Maybe (hopefully) leave after dinner, or else Wednesday am. Do Saanich Inlet rosette cast for IOS. Depart to P1 when sampling completed.
~May 29	P20. Major Station. Deploy a temporary drifter for UW.
~May 31	Arrive at Station Papa. Deploy Drifting Sediment traps. Deploy mooring PA-006. Recover mooring PA-005. Many rosettes, bongos, multinetts. Deploy a drifter for IOS? 24-hour Trace Metal cycle experiment (sampling in the chains every 2 hours).
~Jun 3	Leave Station Papa. Recover drifting sediment traps and UW/APL drifter.
~Jun 4	Recover UW temporary drifter around P20.
June 7	Arrive at IOS and offload.

In case of bad weather, it is possible that we will be back at IOS and offload on June 9.

Cruise track

