

EXPEDITION PLAN AND ITINERARY

DEPARTMENT: DFO, Ocean Sciences Division

MISSION NO: 2015-001

CCG PATROL NO: 14-11

MISSION AREA: Line P, Station Papa.

MISSION OBJECTIVE: Repeat hydrography section, *in-situ* pumping for UBC at specific stations, deploy some Argo floats for IOS.

SHIP: John P. Tully

DATE, FROM: 10 February 2015

TO: 24 February 2015

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

SCIENTIFIC PERSONNEL: 16 berths required

Female	Male
Isabelle Baconnais (U. Sask)	Mike Arychuk (IOS)
Lindsay Fenwick (UBC)	Kohen Bauer (UBC)
Tereza Jarnikova (UBC)	Mark Belton (IOS)
Céline Michiels (UBC)	Glenn Cooper (IOS)
Marie Robert (IOS)	Luke Halpin (EC)
Maureen Soon (UBC)	Andreas Mueller (UBC)
Katharine Thompson (UBC)	Rick Nelson (BIO)
	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, heave compensator, tugger winch, 733.

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.

ANTICIPATED LOADING TIME: Half-day. Loading will start on Tuesday February 10 at 1200 or earlier if possible. Departure in the evening if possible.

DANGEROUS CHEMICALS:

Separate list to follow, to be handed to the Chief Officer before departure. Radioisotopes will be used during this cruise.

STATION LIST:

Station	Latitude N deg min	Longitude W deg min	Bottom depth m	Sampling
Haro Strait				
Haro 59	48°36.85	123°14.86	~230	Rosette to B-10
Juan de Fuca Strait				
JF1	48 16.0	123 30.0	150	under way
JF2*	48 18.0	124 00.0	180	Rosette to B-10
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, TM**
P5	48 41.5	127 10.0	2100	CTD B-10
P6	48 44.6	127 40.0	2500	CTD 2000 m
P7	48 46.6	128 10.0	2450	CTD B-10
P8	48 49.0	128 40.0	2440	Rosette B-10, 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, TM, UBC pumping***
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, TM
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, TM
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, TM, UBC pumping
Mooring	50°08.00	144°50.00	~4250	Rosette.

Note: we only have 2 weeks total for this cruise. Order of stations will be depending on weather. Some work will be done on the way back.

*** Station at JF2: as close as possible to station but can be moved if problem with ship traffic.**

**** Trace Metal work: pumping and Go-flos in the chains to 800 m. We will do only pumping at P4 on the way out and hopefully stop again to do Go-flos on the way back.**

***** UBC pumping: *in-situ* pumps off the aft-deck.**

ITINERARY

- Feb 10 Start loading at 1200 (or earlier if possible. Hopefully winches and containers can be loaded in the morning?). Leave after dinner (or as soon as possible).
- ~Feb 18 Arrive at Station Papa.
- ~Feb 19 Leave Station Papa.
- Feb 24 Arrive at IOS and offload. Ship to be clear by noon.

CRUISE TRACK

