

PACIFIC REGION CCG VESSEL CRUISE PLAN

DEPARTMENT: Fisheries and Oceans Canada

SCIENCE CRUISE NUMBER: IOS2005-19

NAME OF SHIP/PLATFORM: Gordon Reid

SURVEY AREA/AREA OF OPERATION: North-west coast of Vancouver Island and Queen Charlotte Sound

CRUISE OBJECTIVE[S]:

- Biological and physical oceanography time series, north-west coast Vancouver Island

DATE: **FROM:** 11 August 2005 **TO:** approx. 15 August 2005

SENIOR SCIENTIST[S]/CONTACT TEL. #'S:

Steve Romaine, 250.363.6868, RomaineS@pac.dfo-mpo.gc.ca

SCIENTIFIC PERSONNEL: **BERTHS REQUIRED:** 2

<u>MALE [NAMES]</u>	<u>FEMALE[NAMES]</u>
Stephen Romaine (IOS)	Sophie Brookes (UK Student)

SHIP EQUIPMENT REQUIRED:

- Fire hose or garden hose with salt water for washing down nets

DECK MACHINERY REQUIRED:

- Winch with at least 300m of cable (600m preferred) and block(s)

OTHER EQUIPMENT TO BE LOADED:

- Scientific equipment into mud room (plankton nets, CTD, and sampling gear)

SPECIAL REQUIREMENTS:

- Storage location for flammable/toxic chemicals

DANGEROUS CHEMICALS:

GAS CYLINDERS:

ACIDS & BASES:

TOXIC: Formaldehyde, 4 L

FLAMMABLES:

RADIOISOTOPES:

ANTICIPATED LOADING TIME:

1 hour.

LOGISTICS:**LOAD TRUCK:** Wednesday 10 August**COMMENCE LOADING:** Thursday 11 August, Port Hardy**SAILING [DATE/TIME]:****EXPECTED OPERATIONS PROFILE:** As permitted by SAR operations**RETURNING [DATE/TIME]:** exchange scientific party in Port Hardy (if possible), 2-4 days after 11 August)**PROPOSED CRUISE
ITINERARY:****N.B.:** ALSO ATTACH LIST OF STATIONS, MOORING OPERATIONS, OR SURVEY LINES IDENTIFYING EXACT POSITIONS.**DATE** **GENERAL AREA OF OPERATIONS**

2-4 days

CS line, COPRA Triangle Island line
If time permits, LBP line

The scientific party will complete as many of the Cape Scott and Triangle Island Stations as possible and if time permits the Brooks Peninsula Line. During the remaining portions of the red cycle, the ship is encouraged to sample any station that was not completed by the scientific party. The CTD, net, and sampling equipment (plus any samples taken) will be left on board until the end of the red cycle (8 September). Arrangements for the transport of the equipment to IOS will be made in September.

STATION LIST

(Bottom depths and activities are shown in the right two columns below). Plankton tows will be to a maximum of 250m or bottom-10m, whichever is less; CTD casts will be to either 250 or 500 m (also bottom-10m), dependent on time.

Cape Scott/Triangle Island line:

CS0	50 28.5	129 55.0	>2000	CTD/Net
CS1	50 34.9	129 41.5	>2000	CTD/Net
CS2	50 41.3	129 28.0	~1800	CTD/Net
CS3	50 45.6	129 20.0	200	CTD/Net
CS4	50 49.2	129 13.0	100	CTD/Net
CS5/CS2B	50 56.0	129 00.0	64	CTD/Net
CS6	51 00.0	128 50.0	65	CTD/Net
CS7	51 04.5	128 44.0	65	CTD/Net
CS8	51 08.5	128 36.0	138	CTD/Net
CS9	51 12.5	128 28.0	195	CTD/Net

CS10	51 16.5	128 20.0	78	CTD/Net
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COPRA Triangle Island stations

LQ03	50 39.8	129 01.9	750	CTD/Net
JI22	50 39.8	129 17.6		CTD/Net
CPE2	50 43.0	128 40.0	140	CTD/Net
CS3B	51 00.0	129 27.0		CTD/Net
CS1B	50 53.0	128 40.0		CTD/Net
CPE1	51 00.0	127 50.0	150	CTD/Net
ODAS	50 51.5	129 55.0	~2150	CTD/Net

LBP-LINE (Brooks Peninsula)

LBP1	50 04.8	127 52.8	32	CTD
LBP2	50 04.0	127 54.2	105	CTD/Net
LBP3	50 03.2	127 55.3	172	CTD
LBP4	50 01.4	127 58.1	1106	CTD/Net
LBP5	50 00.0	128 00.0	1230	CTD
LBP6	49 56.2	128 05.5	?	CTD/Net
LBP7	49 52.4	128 11.2	?	CTD
LBP8	49 48.6	128 16.8	?	CTD/Net

Northern COPRA stations (Hecate Strait, Dixon Entrance):

MOO8	52 28.5	130 29.0	160	CTD/Net
W007	53 15.5	130 41.0	170	CTD/Net
R11	54 16.5	131 02.3	110	CTD/Net
Q19	53 57.9	133 29.7	240	CTD/Net

Charts of station locations follow, second chart shows more detail for CS and Triangle Island station locations. Red waypoints are CTD/Net, green waypoints are CTD only.



