Regional Operations Centre, Canadian Coast Guard Western

Science Vessel Cruise Plan: **PAC 2017-48**

Plan last updated: Friday 05 May 2017 20:40:40

Cruise Plan Overview

Department/Group: Fisheries and Oceans Canada, OSD

Science Cruise Number: PAC 2017-48

Vessel/Platform: Neocaligus -- **Ship Profile**

Dates: **From: Sunday, 21 May 2017 To: Friday, 26 May 2017**
(No separate scientific legs defined)

Chief Scientist: **Kelly Young**, Kelly Young, **kelly.young@dfo-mpo.gc.ca**

Project Title: **SoG Zooplankton**

Survey Area/Areas of Operations: Strait of Georgia

Plan Alterations: Dropped station 59 (Haro St), added station IS-2 (Pender Harbour)

Cruise Objectives: Strait of Georgia zooplankton and oceanographic survey. CTD (including fluorometer, oxygen) and zooplankton net (SCOR) casts in Strait of Georgia (16 stations, from Gulf Islands to N end Texada Is). Water sampling for salinity, chlorophyll.

Related Documents: **Scientific Sampling Package for 2017-48**
Sampling Equipment Request for 2017-48

Scientific Personnel

Berths Required: 1

Steve Romaine♂

Mobile: 250.882.6964

Affliation: **osd**
Dietary: **Vegetarian (no Dairy)**

(Personnel may upload a photo, give mobile numbers, and specify dietary requirements from their WaterProperties.ca dashboard)
Anticipated Employee Hours (full cruise): 60 | Anticipated Overtime Hours: 68.25 (~9.1 days) | Incidentals Estimate: $103.80

Support Required

Ship's Equipment:
Science winch, block and wire to deploy CTD and SCOR net to at max. 420m
Winch needs to be able to haul zooplankton net max 1 m/s (vertical haul)
Seawater hose on deck to wash down net
Freezer to store biological samples (small amount)

Possibly crane for loading

Technical: Access to the ship's sounder and GPS NMEA feeds.

Deck Machinery: Science winch, block and wire to deploy CTD and SCOR net to at max. 420m
Winch needs to be able to haul zooplankton net max 1 m/s (vertical haul)

Fishing Gear: [None Required]

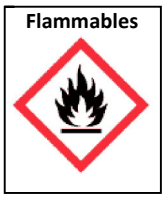
Other Equipment to be Loaded:
SCOR nets
SBE 25 CTD
1.7L Niskins
Associated sampling equipment and containers

Special Requirements: [None Required]

Dangerous Goods

All personnel using Dangerous Goods MUST have valid WHMIS certification to handle dangerous goods

37% Formaldehyde, 2x1L
Lugols iodine solution, 50mL



Logistics

Anticipated Loading Time: 1 hr

Logistics:

Commence Loading:	21 May 2017, 8am, PBS
Sailing:	as soon as loading completed
Operations Profile:	12 hr daytime operations, 07:00-19:00
Returning:	Returning on or before May 26 to offload at PBS.
Offloading:	offload at PBS
Scientific Crew Changes:	[Not Given]
Logistics Details:	Load equipment on May 21. Depart and do GEO1 as test station (outside Nanaimo). Carryout survey, proceeding North or South for sampling depending on weather, tides, and places to tie up at night (choose most efficient route). Returning on or before May 26 to offload at PBS.

Daily Itinerary Summary

21 May: load and depart from PBS.
21-26 May: carry out water properties survey; 16 stations
on or before 26 May: return to PBS and unload all gear

Detailed Itinerary and Files

Downloadable station waypoints and possibly routes for use with any navigation or planning software:
https://www.waterproperties.ca/upload/2017-48.gpx

Click to Download GPX File for 2017-48

Click to Download CSV File for 2017-48

*This GPX file may be used in virtually any navigational software including **OziExplorer** (Windows) or **OpenCPN** (Windows, Linux, Mac). The CSV file may be given to users that cannot read GPX files. You can also convert GPX files to just about any other format (e.g., Google Earth KML, etc) here: **GPSVisualizer.com***

How to import into Windows OpenCPN: Click Route & Mark Manager from Floating Toolbar > Import GPX... from bottom of window. You should also **import an extended waypoint icon pack** into OpenCPN and unzip this folder into C:\ProgramData\opencpn and restart the application.

How to import into OziExplorer: File > Load from File > Import GPX File.
How to import into Google Earth: File > Open > Pick GPS from lower right > Import GPX File.

Note that both OziExplorer and Google Earth lose the GPX waypoint symbols on import

Itinerary Stations/Details:

Station lat lat mins long lon mins depth Samples
CBE2 48 44.22 -123 34.45 65 CTD, net
SC-04 48 43.5 -123 25 90 CTD, net, phyto, chl-a
GI-01 48 45.86 -123 20.53 65 CTD, net
46 48 51.4 -123 10.8 176 CTD, net
41 49 3.3 -123 22.3 245 CTD, net, phyto, chl-a, SAL*
40 49 8.6 -123 36.8 146 CTD, net
38 49 12 -123 26.4 300 CTD, net, SAL*
GEO1 49 15 -123 45 400 CTD, net, phyto, chl-a, SAL*
CPF1 49 22 -124 5 245 CTD, net
28 49 24.1 -123 45.3 134 CTD, net, chl-a (for buoy)
CPF2 49 28 -124 30 325 CTD, net, SAL*
BS-11 49 29 -124 46 58 CTD, net
24 49 30.3 -124 6 425 CTD, net
22 49 40.2 -124 16.3 353 CTD, net, SAL*
11 49 42.4 -124 43.4 290 CTD, net, phyto, chl-a
IS-2 49 38.2 -124 5 CTD, net

Other Supporting Documents:
Note that some of these files may not load correctly in your browser when clicked, but you can right-click on them and save them to your local machine to view.

Filename	Type	Size	Modified

Maps and Deck Layout

Map of Station Locations:

✘ No File Uploaded Yet

Image Notes:

Other Supporting Images:

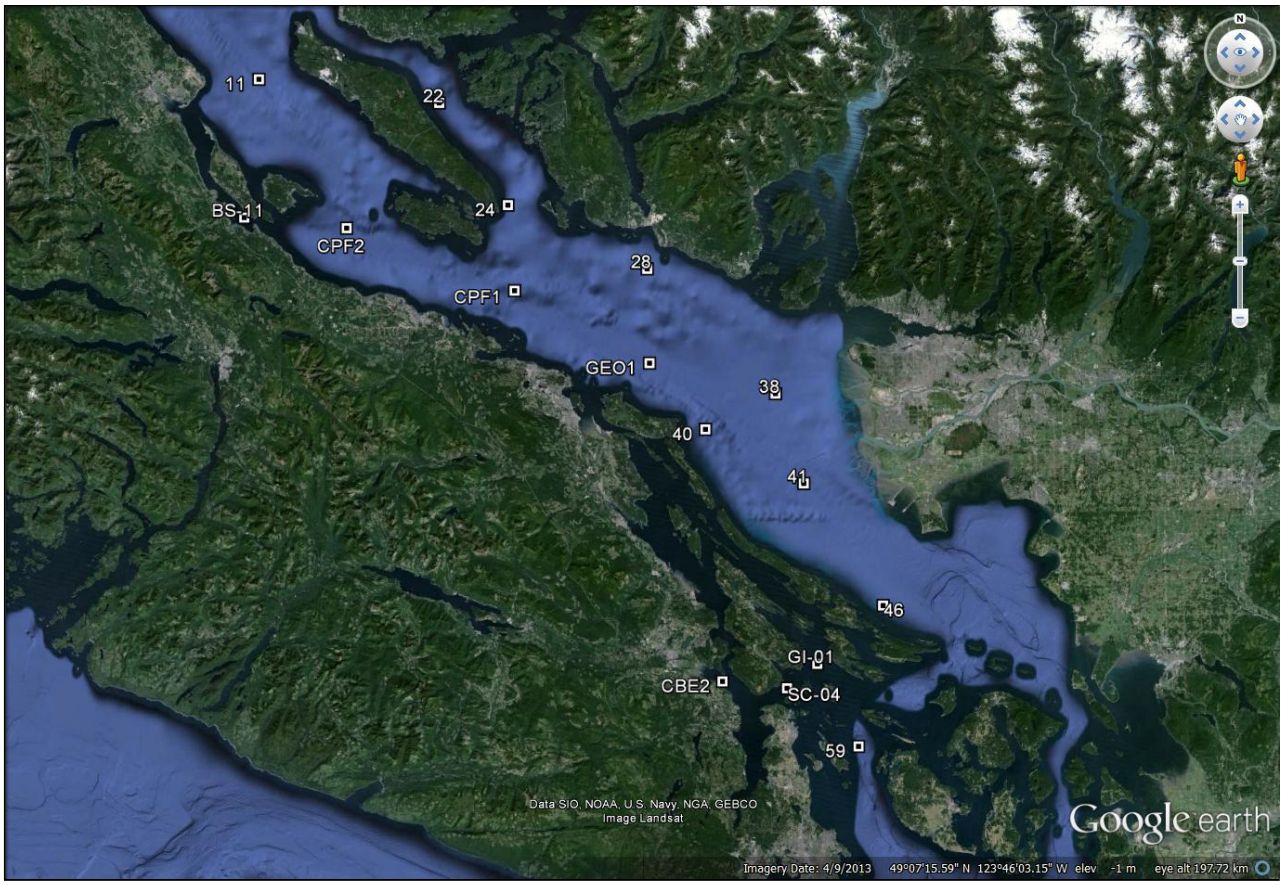


Image Notes:

Deck Layout:

✘ No Deck Image File Uploaded

This page generated from: https://www.waterproperties.ca/requests/cruiseplanview.php?cruiseid=2017-48 on Wednesday 17 May 2017 10:15:26

Recent Plan Views

Kelly Young: 2017-05-17
Steve Romaine: 2017-05-13
Greg Middleton: 2017-05-08
Anthony Maguire: 2017-05-06
Rhian McKee: 2017-05-04
Chelsea Stanley: 2017-04-26