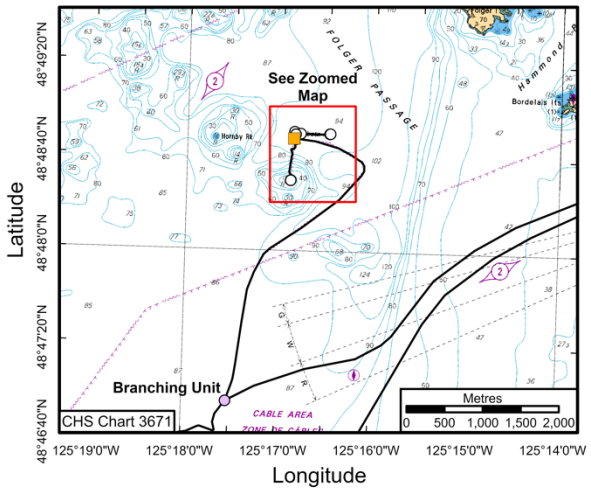
Information for Mariners – September 2023
NEPTUNE Observatory: Folger Passage

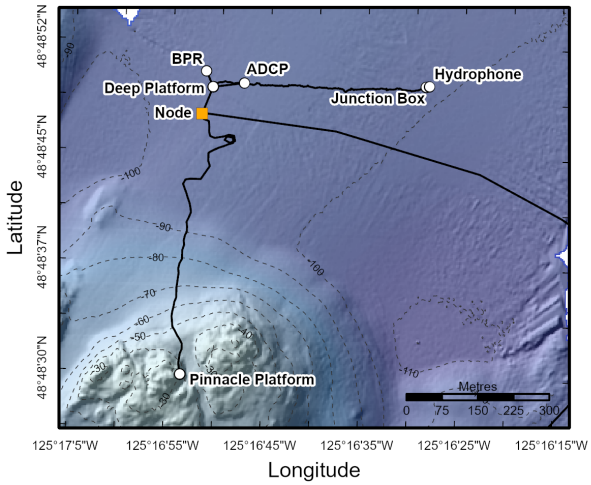
Project: The North-East Pacific Undersea Networked Experiments (NEPTUNE) is an oceanographic project managed by Ocean Networks Canada (ONC), an initiative of the University of Victoria. It consists of a cabled observatory off the west coast of Vancouver Island, beginning in Port Alberni and extending 300 km offshore along an 813 km loop. From a shore landing, an armoured marine cable extends along the ocean bottom to large observatory "Nodes", into which oceanographic instrument systems connect. High voltage power is supplied down the cable, and Ethernet communications along fibre optics bring data and images back to the University in real time. Project status, system information, and data are available from the Ocean Networks Canada website: **oceannetworks.ca**

What: High voltage marine fibre optic cables and observatory systems (see website for system details).
When: Latest system and instrument deployments in Folger Passage: **15 September 2023**
Where: Folger Passage, West Coast Vancouver Island. See Chart # 3671 for obstructions and cables.

Folger Passage Infrastructure



Folger Passage Infrastructure - Zoomed



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Installations:

Name	Latitude	Longitude	Depth (m)	Description
Branching Unit	48.78211	-125.29215	87	3 m cylindrical steel can
Instrument Platform (Pinnacle)	48.80829	-125.28150	25	Large (3 m) grey steel frame
Node	48.81322	-125.28108	100	Large 7 m yellow trawl resistant frame, 13 tons
Instrument Platform (Deep)	48.81373	-125.28079	94	Large (3 m) grey steel frame
ADCP (Deep)	48.81382	-125.27990	95	1 m plastic orange grated platform
Mini Junction Box (Deep)	48.81384	-125.27470	95	1.5 x 0.5 m metal frame box on the seafloor
Hydrophone (Deep)	48.81385	-125.27460	95	Grey steel tripod (1 m)
BPR (Deep)	48.81403	-125.28099	95	Triangular grey steel frame (1 m)

Full cable routes and waypoints are available for use with Electronic Navigation Systems from the ONC website: https://www.oceannetworks.ca/notice-for-mariners/

Contacts: If you have any concerns, or would like further information, please contact either: Meghan Paulson, Ocean Networks Canada's Director of Digital Operations at mpaulson@uvic.ca, or ONC GIS Specialists at GIS@oceannetworks.ca or (250) 472-5386.