

Information for Mariners – October 2021 VENUS/ONC Strait of Georgia

Project: The Victoria Experimental Network Under the Sea (VENUS) is an oceanographic project managed by Ocean Networks Canada (ONC) of the University of Victoria. It consists of cabled observatories in both Saanich Inlet and the Strait of Georgia. 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 web site: www.oceannetworks.ca

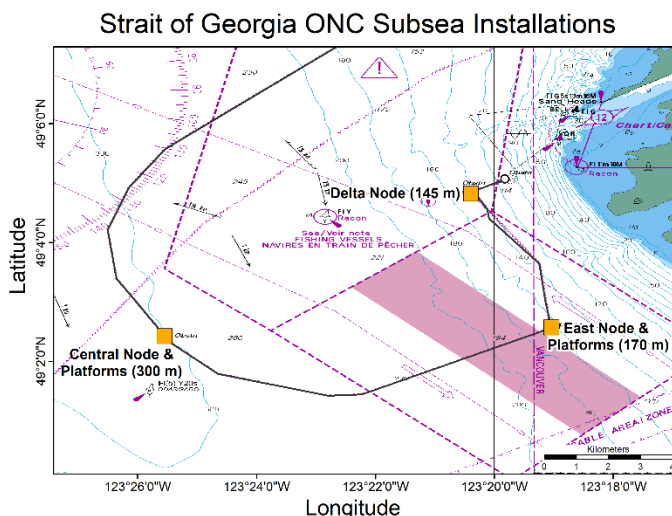
What: High voltage marine fibre optic cables and observatory systems (see web site for system details).

When: Latest system and instrument deployments: **10 September 2021**

Where: [Strait of Georgia](#)

The following gear is considered permanent, and will be serviced for many years. The Central and East Nodes are surrounded by a study area of approximately 250m radius, with instruments and cables, and the Delta Node consists of a single instrument. A cable connects these nodes providing power and communications. Cables and Obstruction Areas are noted on the most recent CHS charts #3492 and #3463.

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Installations:

Name	Latitude	Longitude	Depth(m)	Description
Central Node	49.04044	-123.42580	300	Large (4 m) orange and black frame
Central Instrument Platform	49.04003	-123.42551	294	Large (3 m) grey steel frame
Central Hydrophone	49.03952	-123.42544	297	1 m grey aluminum tripod
Central CTD	49.03912	-123.42467	331	Large (3 m) White Steel tripod
Central Current Profiler	49.04006	-123.42541	296	Small (1 m) Aluminum tripod
East Node	49.04284	-123.31727	170	Large (4 m) orange and black frame
East Instrument Platform	49.04315	-123.31687	164	Large (3 m) grey steel frame
East Current Profiler	49.04311	-123.31680	165	Small (1 m) Aluminum tripod
East CTD	49.04315	-123.31687	164	Large (3 m) White Steel tripod
East Hydrophone Array	49.04330	-123.31611	164	Large (3 m) Grey and black steel tripod
Delta Node	49.08062	-123.33994	146	Large (3 m) grey steel frame

Cable between East Node and DDL Node:

Cable Waypoint	Latitude	Longitude
A1	49.08062	-123.34021
A2	49.08071	-123.34001
A3	49.08062	-123.33993
A4	49.08394	-123.33244
A5	49.08443	-123.33130
A6	49.08465	-123.33077
A7	49.08492	-123.33015

Full cable routes and waypoints are available for use with Electronic Navigation Systems from the ONC website:

<http://www.oceannetworks.ca/installations/notice-mariners>

Contacts: If you have any concerns, or would like further information, please contact either: Ian Kulin, Ocean Networks Canada's Director of Marine Operations at ikulin@uvic.ca or 250 721-6279, or Ocean Networks Canada's GIS Specialists at GIS@oceannetworks.ca.