

## Information for Mariners – April 2020 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](http://www.oceannetworks.ca)

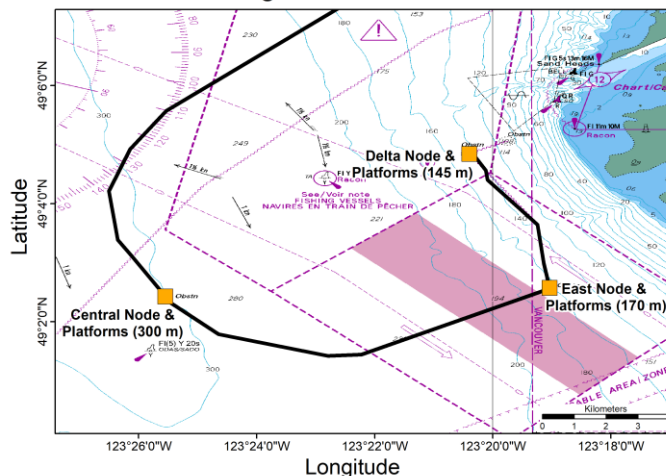
**What:** High voltage marine fibre optic cables and observatory systems (see web site for system details).

**When:** Latest system and instrument deployments: **4 March 2020**

**Where:** [Strait of Georgia](#)

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

Strait of Georgia ONC Subsea Installations



*This figure has been produced by the University of Victoria based on Canadian Hydrographic Service (CHS) charts, pursuant to CHS Direct User License No. 2019-1004-1260-UV. The incorporation of data sourced from CHS in this product shall not be construed as constituting an endorsement by CHS of this product. This product does not meet the requirements of the Charts and Nautical Publications Regulations, 1995 under the Canada Shipping Act, 2001. Official charts and publications; corrected and up-to-date, must be used to meet the requirements of those regulations.*

**Platforms:**

Name	Latitude	Longitude	Depth(m)	Description
Central Node	49.04044	-123.42580	300	Large (4 m) orange and black frame
Central VIP	49.04003	-123.42551	294	Large (3 m) grey steel frame
Central VIP Tripod	49.04006	-123.42541	296	Small (1 m) Aluminum tripod
Central Hydrophone	49.03952	-123.42544	297	Small (1 m) Aluminum tripod
Delta Node	49.08062	-123.33994	145	Large (3 m) white steel frame
East Node	49.04284	-123.31727	170	Large (4 m) orange and black frame
East VIP	49.04315	-123.31687	164	Large (3 m) grey steel frame
East VIP Tripod	49.04311	-123.31680	165	Small (1 m) Aluminum tripod
East Hydrophone Array	49.04330	-123.31611	164	Large (3 m) grey and black steel tripod

**Cable between East Node and DDL Node:**

<b>Cable Waypoint</b>	<b>Latitude</b>	<b>Longitude</b>
A1	49.04284	-123.31726
A2	49.06071	-123.32068
A3	49.07333	-123.33484
A4	49.07601	-123.33529
A5	49.07996	-123.33832
A6	49.08040	-123.34031
A7	49.08072	-123.34006

**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: Adrian Round, Ocean Networks Canada's Director of Observatory Operations, at [around@uvic.ca](mailto:around@uvic.ca) or 250-472-5364 or Mark Rankin, GIS Specialist, at [markrankin@uvic.ca](mailto:markrankin@uvic.ca) or (250) 472-5386.