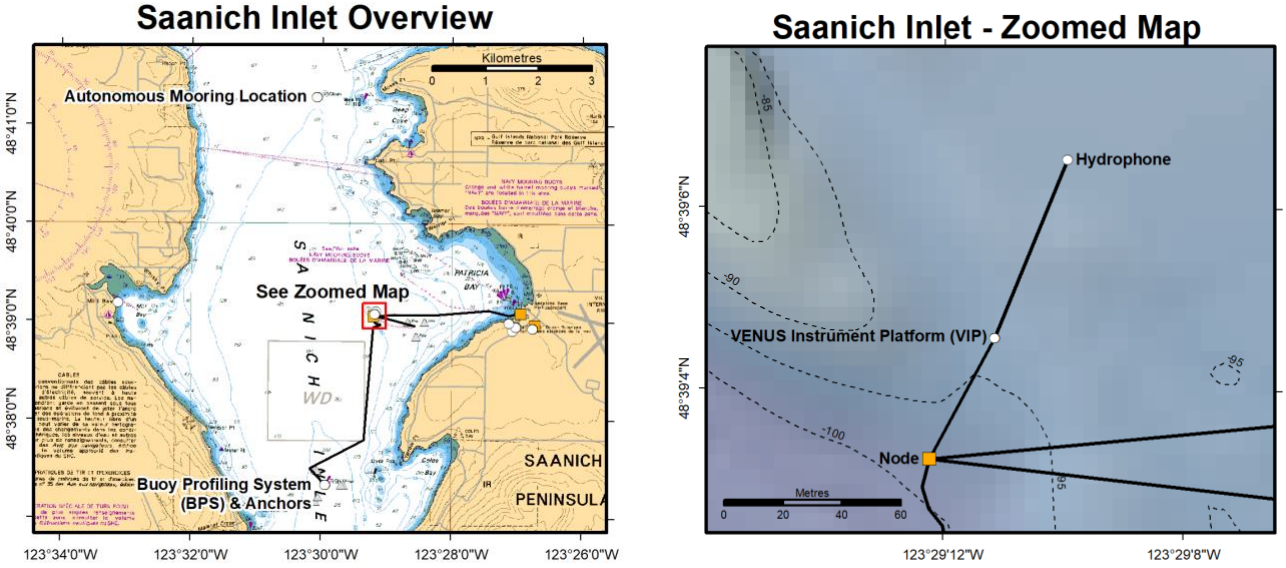
Information for Mariners – December 2020
VENUS/ONC Saanich Inlet

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 ONC website: **http://www.oceannetworks.ca**

What: High voltage marine fibre optic cables and observatory systems (see web site for system details). Cables and obstructions are marked on chart 3441.
When: Latest system and instrument deployments in Saanich Inlet: **9 November 2020**



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Installations:

Name	Latitude	Longitude	Depth (m)	Description
Node	48.65090	-123.48671	100	Large 3m black trawl resistant frame; 2 tons
Anode	48.65133	-123.45117	5	1m cube frame on bottom
Instrument Platform (VIP)	48.65127	-123.48642	96	3 m white steel frame
Hydrophone	48.65181	-123.48608	95	Small (1.5 m) white and orange steel tripod with 20 m cable to 1 m separate steel square platform
Inshore Profiling System (BPS)	48.62228	-123.49888	Surface to 200	7.5 m yellow surface platform with profiling buoy
BPS East Anchor	48.62230	-123.49479	200	Double train wheel with 10 m of 1" chain and 350 m of 3/4" mooring line
BPS East Anchor (old)	48.62233	-123.49417	200	Anchor with potential floating line
BPS NW Anchor	48.62482	-123.50092	200	Double train wheel with 10 m of 1" chain and 350 m of 3/4" mooring line
BPS SW Anchor	48.62027	-123.50065	200	Double train wheel with 10 m of 1" chain and 350 m of 3/4" mooring line
BPS SW Anchor (old)	48.61958	-123.50133	200	Anchor with potential floating line

Ocean Technology Test Bed (OTTB) Subsea Platform	48.64942	-123.47635	80	5 m circular frame standing 3 m high on seafloor
OTTB NE Anchor	48.65000	-123.47358	67	1.7 m danforth anchor
OTTB NW Anchor	48.65000	-123.47792	84	1.7 m danforth anchor
OTTB South Anchor	48.64752	-123.47575	65	1.7 m danforth anchor
Autonomous Mooring (SILL-13)	48.68807	-123.50140	90	Fixed mooring extending 10 m above seafloor

Node to VIP to Hydrophone Cable Route:

Cable Waypoint	Latitude	Longitude
W1	48.6518136	-123.4860814
W2	48.65126981	-123.4864148
W3	48.6509	-123.4867117

Node to no Instrument Cable Route:

Cable Waypoint	Latitude	Longitude
W1	48.6509	-123.4867117
W2	48.65075575	-123.4847236
W3	48.65051799	-123.4827472
W4	48.65017199	-123.4807841
W5	48.64982599	-123.4788211
W6	48.64947999	-123.4768581
W7	48.64936684	-123.4762161

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 ONC GIS Specialists, at GIS@oceannetworks.ca.