Information for Mariners - September 2025 **NEPTUNE Observatory: Clayoquot Slope (Formerly ODP 889)**

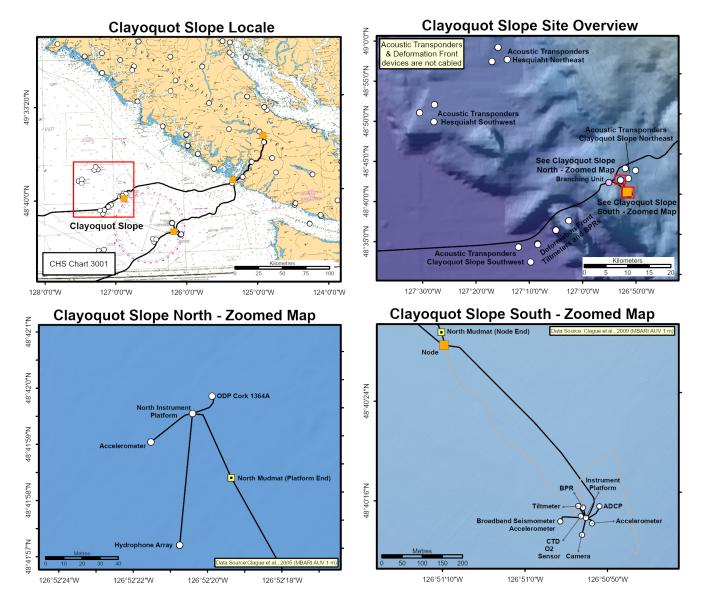
Project: The North-East Pacific Undersea Networked Experiments (NEPTUNE) is an oceanographic project managed by Ocean Networks Canada (ONC), an initiative of the University of Victoria. It consists of a cabled observatory off the west coast of Vancouver Island, beginning in Port Alberni and extending 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 web site: www.oceannetworks.ca

What: High voltage marine fibre optic cables and observatory systems (see web site for system details). The acoustic transponders are not cabled, please see Clayoquot Slope Site Overview map.

When: Latest system and instrument deployments at Clayoquot Slope: September 2, 2025

Where: Clayoquot Slope, West Coast Vancouver Island. See chart # 3001 (ENC CA270389) for main cable

route.



These figures have been produced by the University of Victoria based on Canadian Hydrographic Service (CHS) charts, pursuant to DULA CHS # 2022-1122-1260-U. The incorporation of data sourced from CHS in these products shall not be construed as constituting an endorsement by CHS of these products. These products do 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.

Installations:

Name	Latitude	Longitude	Depth (m)	Description
Accelerometer	48.67047	-126.84770	1259	Buried 1 m circular green caisson
7 tocoloromotor	10.07017	120.01770	1200	0.5 m Cylindrical frame with glass
Accelerometer	48.69972	-126.87262	1318	sphere buried in a green caisson
Branching Unit	48.69510	-126.90954	1367	3 m cylindrical steel can
Bullseye ADCP	48.67084	-126.84743	1258	1 cubic meter, white mesh platform
Bullseye BPR	48.67083	-126.84799	1257	1 m triangular steel platform
Bullseye Broadband				1 m spherical grey titanium
Seismometer	48.67054	-126.84877	1256	platform
Camera	48.67022	-126.84805	1255	Large (5 m) grey steel frame.
				6.5 m Cylindrical steel frame with
CORK	48.69994	-126.87215	1329	circular platform
CORK Instrument				
Platform	48.69985	-126.87230	1315	Large (3 m) grey steel frame.
CTD	48.67064	-126.84807	1257	3 m white tripod
Deformation Front East				1 cubic meter steel and plastic
Data Logger	48.61821	-127.03834	1753	mesh platform.
Deformation Front Middle				1 cubic meter steel and plastic
Data Logger	48.59889	-127.07953	2498	mesh platform.
Deformation Front West				1 cubic meter steel and plastic
Data Logger	48.57053	-127.13736	2575	mesh platform.
Gastown Alley Borehole	40 00074	100 04750	1070	OF an allege selection the flexible
with Instrument (SCIMPI)	48.66971	-126.84752	1272	25 m yellow cable with floats
Hesquiaht Transponder 1 (NE)	48.95259	-127.26764	2042	An orange GPS Acoustics device
Hesquiaht Transponder 2			2031	extending 2 m off seafloor. An orange GPS Acoustics device
(NE)	48.98161	-127.24745	2031	extending 2 m off seafloor.
Hesquiaht Transponder 3			2046	An orange GPS Acoustics device
(NE)	48.95601	-127.21950	2040	extending 2 m off seafloor.
Hesquiaht Transponder 1			2253	An orange GPS Acoustics device
(SW)	48.82995	-127.45438	2200	extending 2 m off seafloor.
Hesquiaht Transponder 2	10.01000		2253	An orange GPS Acoustics device
(SW)	48.84936	-127.49905		extending 2 m off seafloor.
Hesquiaht Transponder 3	40.00550	107.45457	2234	An orange GPS Acoustics device
(SW)	48.86559	-127.45157		extending 2 m off seafloor.
				Yellow metal pole rising 3 m from
Hydrophone Array	48.69920	-126.87242	1314	seafloor
Instrument Platform	48.67060	-126.84789	1254	Large (3 m) grey steel frame
Mud Mat (Instrument				
Platform End)	48.69953	-126.87202	1310	1.5 m yellow rectangular platform
Mud Mat (Node End)	48.67483	-126.85259	1240	1.5 m yellow rectangular platform
				Large 7 m yellow trawl resistant
Node	48.67454	-126.85251	1256	frame, 13 tons
				1 m cylindrical titanium can, with
TiltMeter	48.67087	-126.84814	1259	white plate
				Small metallic device buried in
Tilturates (Date esselle)				seafloor connected by cable to
Tiltmeter (Deformation	40.61041	107 00000	1740	nearby 1 cubic meter steel and
Front East)	48.61841	-127.03806	1748	plastic mesh platform Small metallic device buried in
				seafloor connected by cable to
Tiltmeter (Deformation				nearby 1 cubic meter steel and
Front Middle)	48.59944	-127.07943	2504	plastic mesh platform
Sitt Wilddio	10.00044	127.07040	1 200-	I piaciio ilicon piationii

				Small metallic device buried in
				seafloor connected by cable to
				nearby 1 cubic meter steel and
Tiltmeter (West)	48.57075	-127.13759	2559	plastic mesh platform
				An orange GPS Acoustics device
Transponder 1 (NE)	48.71867	-126.82464	1408	extending 2 m off seafloor
				An orange GPS Acoustics device
Transponder 1 (SW)	48.56603	-127.19777	2556	extending 2 m off seafloor.
				An orange GPS Acoustics device
Transponder 2 (NE)	48.72343	-126.85690	1401	extending 2 m off seafloor
				An orange GPS Acoustics device
Transponder 2 (SW)	48.53446	-127.16049	2559	extending 2 m off seafloor.
				An orange GPS Acoustics device
Transponder 3 (NE)	48.70260	-126.84766	1404	extending 2 m off seafloor
				An orange GPS Acoustics device
Transponder 3 (SW)	48.57170	-127.13804	2559	extending 2 m off seafloor.

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: Ben Biffard, Ocean Networks Canada's Director of Observatory Digital Operations at bbiffard@uvic.ca or ONC GIS Specialists at GIS@oceannetworks.ca.