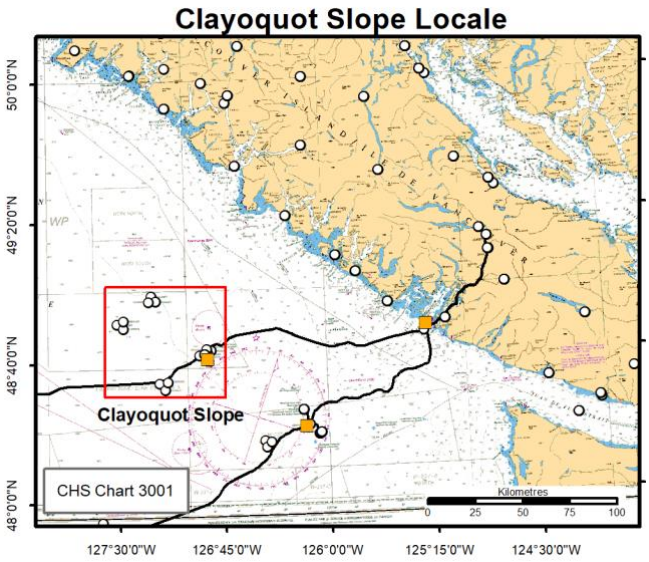
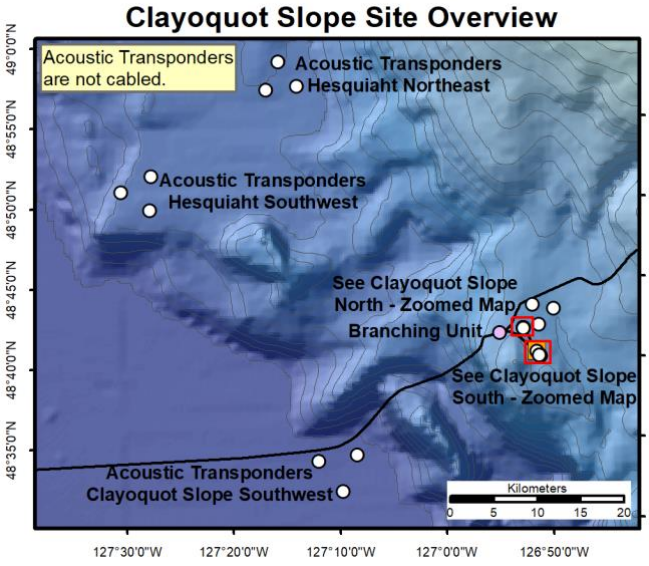
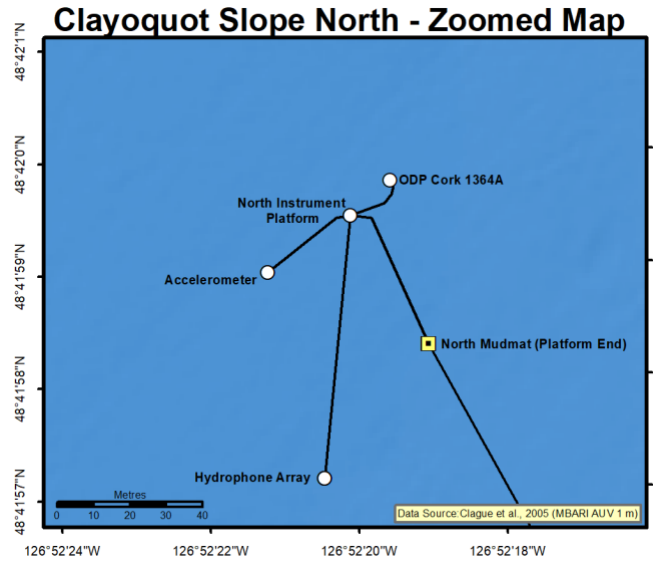
Information for Mariners – February 2021
NEPTUNE Observatory: Clayoquot Slope (Formerly ODP 889)

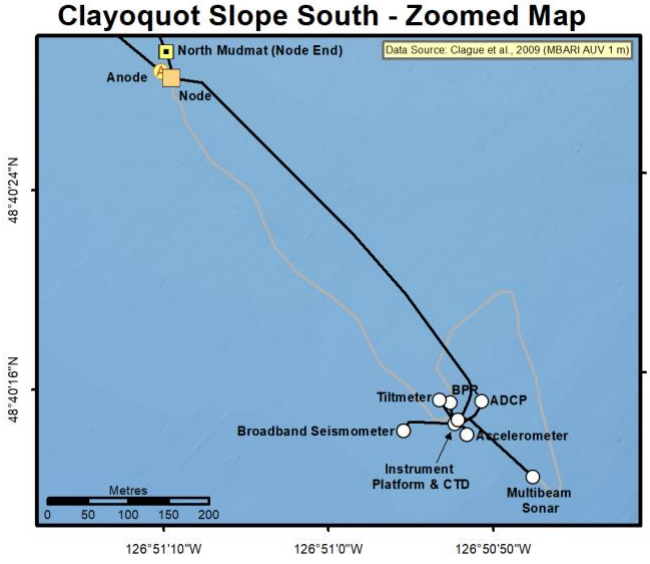
Project: The North-East Pacific Undersea Networked Experiments (NEPTUNE) is an oceanographic project managed by Ocean Networks Canada (ONC), an initiative of the University of Victoria. It consists of a cabled observatory off the west coast of Vancouver Island, beginning in Port Alberni and extending 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**: 14 September 2020**
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 # 2019-1004-1260-UV. 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
Bullseye_Accelerometer_2016-06	48.67047314	-126.8477014	1259	Buried 1 m circular green caisson.
Bullseye_ADCP_2020-06	48.67084382	-126.84743	1258	1 cubic meter, white mesh platform.
Bullseye_BBS_NC89_2009-09	48.67053667	-126.8487667	1256	1 m spherical grey titanium platform.
Bullseye_BPR_2009-09	48.670835	-126.847965	1258	1 m triangular steel platform.
Bullseye_CTD_2018-06	48.67064	-126.847847	1253	3 m white tripod.
Bullseye_IP_2018-06	48.6706	-126.847893	1254	Large (3 m) grey steel frame.
ClayoquotSlope_BranchingUnit_2007-08	48.69510333	-126.909535	1367	3 m cylindrical steel can.
ClayoquotSlope_CORK-1364A_2010-09	48.69993667	-126.8721517	1329	6.5 m Cylindrical steel frame with circular platform.
ClayoquotSlope_CORK-1364A_IP_2016-06-23	48.699853	-126.872302	1315	Large (3 m) grey steel frame.
ClayoquotSlope_CQS64_W1_Accelerometer_2018-07	48.69971814	-126.8726178	1318	Buried 1 m circular green caisson.
ClayoquotSlope_NE_Transponder_1	48.7186745	-126.8246378	1408	An orange GPS Acoustics device extending 2 m off seafloor.
ClayoquotSlope_NE_Transponder_2	48.7234343	-126.8569018	1401	An orange GPS Acoustics device extending 2 m off seafloor.
ClayoquotSlope_NE_Transponder_3	48.7025976	-126.8476572	1404	An orange GPS Acoustics device extending 2 m off seafloor.
ClayoquotSlope_Node_2009-08	48.67453667	-126.85251	1256	Large 7 m yellow trawl resistant frame, 13 tons.
ClayoquotSlope_ODP1364A_HydrophoneArray_2020-09	48.69920415	-126.8724249	1314	Yellow metal pole rising 3 m from seafloor.
ClayoquotSlope_RBRTiltMeter_2017-06	48.67086956	-126.8481413	1259	1 m cylindrical titanium can, with white plate.
ClayoquotSlope_SW_Transponder_1	48.56602716	-127.1977728	2556	An orange GPS Acoustics device extending 2 m off seafloor.
ClayoquotSlope_SW_Transponder_2	48.53446383	-127.1604925	2559	An orange GPS Acoustics device extending 2 m off seafloor.
ClayoquotSlope_SW_Transponder_3	48.5717875	-127.1380086	2550	An orange GPS Acoustics device extending 2 m off seafloor.
GastownAlley_Multi-beamSonar_2020-06	48.669982	-126.846603	1259	1 m steel tripod with yellow cone.
Hesquiaht_NE_Transponder_1	48.95258916	-127.2676398	2042	An orange GPS Acoustics device extending 2 m off seafloor.
Hesquiaht_NE_Transponder_2	48.98160616	-127.2474543	2031	An orange GPS Acoustics device extending 2 m off seafloor.
Hesquiaht_NE_Transponder_3	48.95600916	-127.2194973	2046	An orange GPS Acoustics device extending 2 m off seafloor.
Hesquiaht_SW_Transponder_1	48.8299456	-127.4543846	2253	An orange GPS Acoustics device extending 2 m off seafloor.
Hesquiaht_SW_Transponder_2	48.8493556	-127.4990543	2253	An orange GPS Acoustics device extending 2 m off seafloor.
Hesquiaht_SW_Transponder_3	48.8655876	-127.4515735	2234	An orange GPS Acoustics device extending 2 m off seafloor.
Hesquiaht_SW_Transponder_2	48.8493556	-127.4990543	2253	An orange GPS Acoustics device extending 2 m off seafloor.
Hesquiaht_SW_Transponder_3	48.8655876	-127.4515735	2234	An orange GPS Acoustics device extending 2 m off seafloor.

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.