

Information for Mariners – May 2017

NEPTUNE Observatory: Clayoquot Slope (Formerly ODP 889)

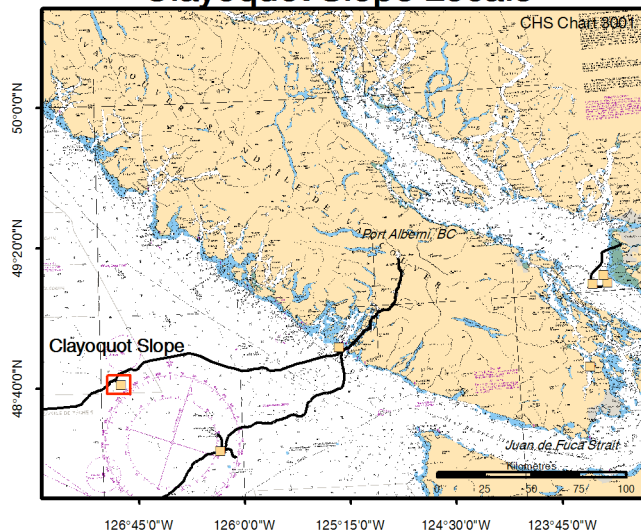
Project: The North-East Pacific Undersea Networked Experiments (NEPTUNE) is an oceanographic project managed by Ocean Networks Canada (ONC), an initiative of the University of Victoria. It consists of a cabled observatory off the west coast of Vancouver Island, beginning in Port Alberni and extending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

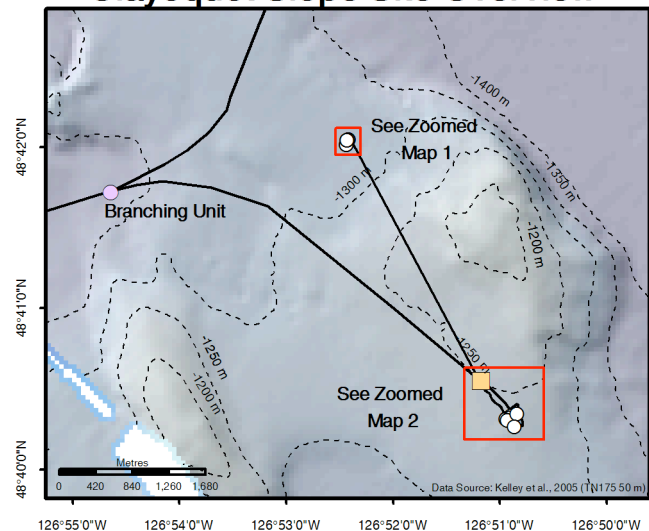
When: Latest system and instrument deployments at Clayoquot Slope: **6 May 2017**

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

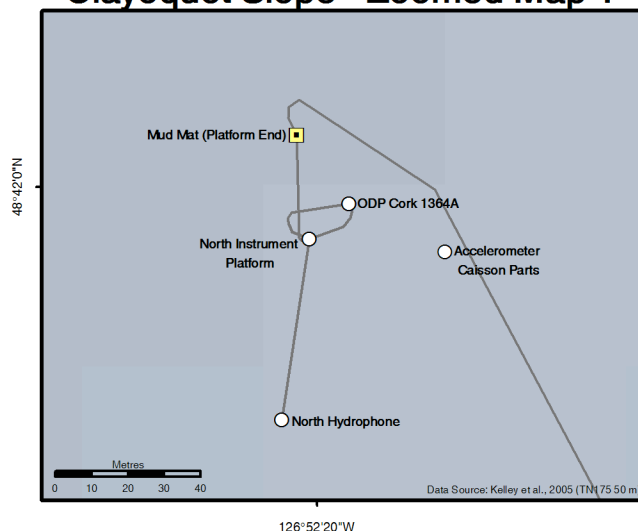
Clayoquot Slope Locale



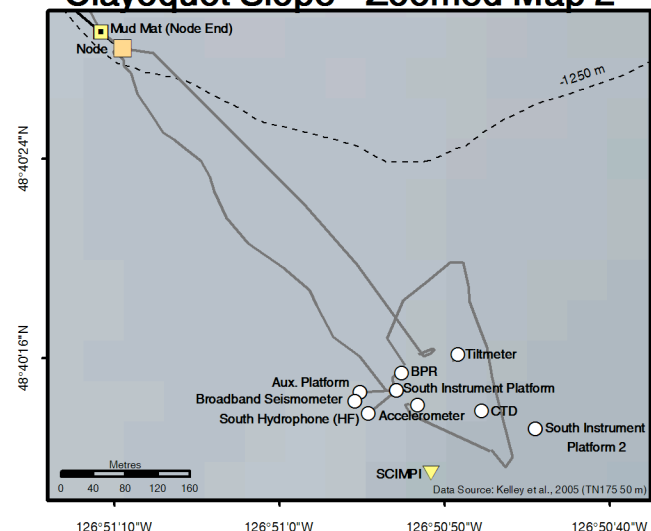
Clayoquot Slope Site Overview



Clayoquot Slope - Zoomed Map 1



Clayoquot Slope - Zoomed Map 2



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Name	Latitude	Longitude	Depth	Notes	Description
Node	48° 40.4722' N	126° 51.1506' W	1256 m		Large 7 m yellow trawl resistant frame
Anode	48° 40.4767' N	126° 51.1606' W	1250 m		1 m cylindrical steel can
Branching Unit	48° 41.7062' N	126° 54.5721' W	1367 m		3 m cylindrical steel can
Borehole with Instrument (SCIMPI)	48° 40.1823' N	126° 50.8509' W	1272 m		25 m yellow cable with floats
South Hydrophone (HF)	48° 40.2238' N	126° 50.9124' W	1257 m		1 m grey aluminum tripod
Broadband Seismometer	48° 40.2322' N	126° 50.9260' W	1256 m		1 m spherical grey titanium platform
Aux. Platform	48° 40.2382' N	126° 50.9206' W	1257 m		1.5 m grey steel frame
South Instrument Platform	48° 40.2387' N	126° 50.8832' W	1259 m		Large (3 m) grey steel frame
Bottom Pressure Recorder (BPR)	48° 40.2501' N	126° 50.8779' W	1258 m		1 m triangular steel platform
Tiltmeter	48° 40.2614' N	126° 50.8204' W	1255 m		1 m cylindrical titanium can
North Hydrophone	48° 41.9644' N	126° 52.3455' W	1315 m		Yellow metal pole rising 3 m from seafloor
North Instrument Platform	48° 41.9912' N	126° 52.3381' W	1315 m	NOTSHIP P0691(2017)	Large (3 m) grey steel frame.
ODP Cork 1364A	48° 41.9962' N	126° 52.3291' W	1329 m		6.5 m Cylindrical steel frame with circular platform
Accelerometer	48° 40.2284' N	126° 50.8621' W	1259 m		Buried 1 m circular green caisson
Accelerometer Caisson Parts	48° 41.9887' N	126° 52.3078' W	996 m		1 m wooden board and bags of glass beads
Mud Mat (Platform End)	48° 42.0067' N	126° 52.3404' W	1317 m	NOTSHIP P0689(2017)	1.5 m yellow rectangular platform
Mud Mat (Node End)	48° 40.4838' N	126° 51.1719' W	1247 m	NOTSHIP P0689(2017)	1.5 m yellow rectangular platform
South Instrument Platform 2	48° 40.2106' N	126° 50.7442' W	1259 m		Large (3 m) grey steel frame
CTD monument	48° 40.2235' N	126° 50.7976' W	1257 m		Large (3 m) yellow and grey

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

<http://www.oceannetworks.ca/observatories/notices/information-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 or 250-472-5364 or Karen Douglas, GIS Specialist at kdouglas@uvic.ca or 250-472-5359.