

# Abbreviations & Glossary

# Abbreviations

---

<b>2,3,7,8-TCDD</b>	2,3,7,8-tetrachlorodibenzodioxin (the most toxic dioxin compound)
<b>ABIS</b>	Annapolis Biodiversity Index Study
<b>ARSBC</b>	Artificial Reef Society of BC
<b>B.C.</b>	British Columbia
<b>BCCSN</b>	British Columbia Cetacean Sightings Network
<b>BCIT</b>	British Columbia Institute of Technology
<b>BIFWC</b>	Bowen Island Fish and Wildlife Club
<b>BIM</b>	Bowen Island Municipality
<b>CBC</b>	Christmas Bird Count
<b>CEA</b>	Cumulative Effects Assessment
<b>CERP</b>	Central Estuary Restoration Project
<b>CN</b>	Canadian National Railway
<b>CO<sub>2</sub></b>	carbon dioxide
<b>DFO</b>	Fisheries and Oceans Canada (a federal agency)
<b>dw</b>	dry weight
<b>e.g.</b>	for example
<b>ECCC</b>	Environment Climate Change Canada (a federal agency)
<b>ENSO</b>	El Niño Southern Oscillation
<b>EPA</b>	Environmental Protection Agency
<b>FIDIC</b>	International Federation of Consulting Engineers
<b>FLNRORD</b>	Ministry of Forests, Lands, and Natural Resource Operations and Rural Development
<b>FSC</b>	Food, Social and Ceremonial
<b>GBBC</b>	Great Backyard Bird Count
<b>GCM</b>	global climate models
<b>GHG</b>	greenhouse gases

<b>GLTC</b>	Gambier Island Local Trust Committee
<b>HSBRIS</b>	Howe Sound Biosphere Region Initiative Society
<b>HSCF</b>	Howe Sound Community Forum
<b>HSSP</b>	Howe Sound Pulp and Paper Cooperation
<b>i.e.</b>	that is
<b>IBA</b>	Important Bird Area
<b>IFHMP</b>	Integrated Flood Hazard Management Plan
<b>IPCC</b>	Intergovernmental Panel on Climate Change
<b>ISQG</b>	interim sediment quality guidelines
<b>IUCN</b>	International Union for Conservation of Nature
<b>LMFM</b>	Lower Mainland Facilities Management
<b>MLA</b>	Member of the Legislative Assembly
<b>MPA</b>	Marine Protected Area
<b>MRG</b>	Marine Reference Guide ( <a href="https://howesoundguide.ca/">https://howesoundguide.ca/</a> )
<b>NASA</b>	National Aeronautics and Space Administration
<b>NGO</b>	non-governmental organization
<b>NOAA</b>	National Oceanic and Atmospheric Administration
<b>OWBC</b>	Ocean Watch British Columbia Edition
<b>OWHS</b>	Ocean Watch Howe Sound Edition
<b>OWTF</b>	Ocean Watch Task Force
<b>PCBs</b>	polychlorinated biphenyls (a group of chemical contaminants)
<b>PCIC</b>	Pacific Climate Impacts Consortium
<b>PDO</b>	Pacific Decadal Oscillation
<b>PFCs</b>	perfluorinated compounds (a group of chemical contaminants)
<b>PIBC</b>	Planning Institute of British Columbia
<b>PICS</b>	Pacific Institute for Climate Solutions
<b>RCA</b>	Rockfish Conservation Area
<b>RCP</b>	Representative Concentration Pathway
<b>ROV</b>	remotely operated vehicle

---

<b>SARA</b>	<i>Species at Risk Act</i>
<b>SES</b>	Squamish Environment Society
<b>SLR</b>	sea level rise
<b>SRWS</b>	Squamish River Watershed Society
<b>SSWD</b>	sea star wasting disease
<b>TEF</b>	toxic equivalency factor
<b>TEQ</b>	Toxic equivalents (used when examining dioxins and furans, a group of chemical contaminants)
<b>UNESCO</b>	United Nations Educational, Scientific, and Cultural Organization
<b>WQG</b>	Water Quality Guidelines
<b>ww</b>	wet weight
<b>YOY</b>	young of year

---

# Glossary

---

<b>10th percentile</b>	a percentile is a statistical measure below which a given percentage (here, 10%) of data points fall
<b>90th percentile</b>	a percentile is a statistical measure below which a given percentage (here, 90%) of data points fall
<b>Abandoned Vessels</b>	are legislated in the Navigation Protection Act (NPA) and the Canada Shipping Act (CSA). The NPA, Section 20, deems a vessel abandoned after 30 days when no owner can be located. Authorized removal of abandoned vessels in Átl'ka7tsem /Txwnéwu7ts/Howe Sound waters may be obtained through Transport Canada's Receiver of Wrecks. Funding for the removal is limited. Often the person or agency performing the work is held financially accountable
<b>Adsorb</b>	the adhesion of a molecule on the outside surface of a material, such as sediment
<b>Anadromous</b>	moving into rivers from the sea to spawn
<b>Anthropogenic</b>	human-caused
<b>Bathymetric mapping</b>	mapping of the seafloor, or the floor of other bodies of water
<b>BC water quality guidelines</b>	water quality guidelines refer to the desired condition of a body of water. BCWQG are set to protect marine species
<b>Benthic invertebrates</b>	species that lack a backbone living at or in the sediment surface (e.g. molluscs, insects, worms)
<b>Berm</b>	a flat strip of raised land bordering a body of water
<b>Bioaccumulation</b>	the accumulation of chemicals in an organism at a rate faster than which the chemical can be excreted
<b>Bioherm</b>	ancient organic reef of mound-like form built by a variety of marine invertebrates and calcareous algae
<b>Brownfield</b>	a former industrial or commercial site

<b>Chronic</b>	occurring over a long period of time
<b>Cofferdam</b>	a temporary enclosure in or around a body of water that allows the water to be pumped out, creating a dry environment for construction to take place
<b>Confluence</b>	where two rivers join
<b>Contaminants</b>	the presence of a substance where it should not be or at concentrations above background levels
<b>Daphnia magna</b>	an aquatic invertebrate
<b>Dead Pitch program</b>	population assessment program where carcasses are recovered to get population numbers
<b>Debris drifts</b>	stable piles of fallen glass sponges
<b>Dioxins and furans</b>	contaminants released as unintentional byproducts, for example of the pulp and paper bleaching process
<b>Effluent</b>	liquid waste released back into natural water bodies
<b>El Niño Southern Oscillation (ENSO)</b>	irregular, periodic variations in wind and sea surface temperatures over much of the Pacific Ocean, which impact climate in surrounding areas
<b>Escapement</b>	the number of salmon that are not caught in fisheries (commercial, recreational, ceremonial) and return to their freshwater spawning areas
<b>Fish fry</b>	young fish that are recently hatched
<b>Geoengineering</b>	large-scale manipulation of Earth's natural processes in an effort to counter climate change
<b>Hepatopancreas</b>	the digestive tissue in crabs that combines the digestive function of the vertebrate liver and pancreas
<b>Interim sediment quality guideline</b>	the concentration below which adverse biological effects are expected to occur rarely
<b>Intertidal</b>	the area which is uncovered at low tide and covered at high tide
<b>Intertidal animals</b>	animals living in the zone that is periodically covered/uncovered by water due to tidal movement
<b>Kraft pulp</b>	an intermediate product in the production of paper

<b>Median</b>	when data points are arranged in order, the median value is that which falls in the middle
<b>Motile</b>	capable of movement
<b>Pacific Decadal Oscillation (PDO)</b>	a recurring pattern of ocean-atmosphere climate variability centered over the Pacific basin
<b>Paleoclimate data</b>	information about the climate at any given time in the past e.g., data from tree rings, ice cores, sediment samples, or other sources of evidence
<b>pH</b>	measure of acidity and alkalinity
<b>Porewater</b>	water contained in pores in soil or rock
<b>Positive feedback cycles</b>	cycles that can feedback into the system, resulting in a positive outcome. For climate change, common feedbacks include water vapour (which is a GHG that increases in concentration as air temperatures increase); albedo feedbacks (i.e., less snow and ice makes the earth less reflective allowing more heat to be absorbed by the oceans); forest fires; permafrost melting; and loss of ocean life
<b>Primary production</b>	photosynthesis; how plants make energy from the Sun's energy
<b>Problem Vessels</b>	include boats that are causing social unrest or ecological degradation as a result of, for example, raw sewage or grey water discharge, garbage disposal, or intentional beaching by liveaboard occupants or known owners. Problem vessels may be abandoned and become wrecks. Problem vessel owners may be found in contravention of local bylaws, e.g. land use or zoning bylaw provisions; provincial legislation, e.g. Land Act, Trespass Act Environmental Management Act, Public Health Act; or federal statutes, e.g. Fisheries Act
<b>Ramping</b>	increasing or decreasing the water flow on a run-of-river hydroelectric project, which can result in fish being stranded and dying if the water levels drop too quickly
<b>Redd</b>	a depression in the riverbed where female salmon deposit eggs during spawning
<b>Reference sites</b>	uncontaminated sites
<b>Rip rap</b>	large boulders and rocks

<b>Riparian zone</b>	the transitional zone between land and water
<b>Spicule</b>	a minute, slender, sharp-pointed body, typically present in large numbers
<b>Subtidal</b>	the portion of a tidal flat environment that lies below the mean low water for spring tides; typically always covered by water
<b>The Blob</b>	a large mass of warmer than usual water that occurred off the coast of the Pacific northwest, beginning in late 2013
<b>Thermal expansion</b>	water increases in volume as it warms
<b>Water quality guidelines</b>	guideline levels of water quality parameters set to protect marine species
<b>Wrecked Vessels</b>	are those boats that are no longer intact. They may reside on the sea floor or clutter the shoreline. Vessels in imminent danger of sinking may also be classified as wrecks. Without restoration they are no longer seaworthy. Transport Canada's (TC) Receiver of Wrecks can authorize the removal of a wrecked vessel under provisions in the Canada Shipping Act (CSA) and the Navigation Protection Act (NPA)
<b>Young of year (YOY)</b>	salmon born within the past year