

# GIS Hub Summary: August 2020

Browse, publish, and download spatial datasets to conduct research and analyses

<https://www.gis-hub.ca/>

Contact [Cole.Fields@dfo-mpo.gc.ca](mailto:Cole.Fields@dfo-mpo.gc.ca) or [Kayleigh.Gillespie@dfo-mpo.gc.ca](mailto:Kayleigh.Gillespie@dfo-mpo.gc.ca) for details

60+ ACTIVE MEMBERS  
40+ PUBLIC DATASETS AND COLLECTIONS


## GIS HUB FEATURES



	COLLABORATION	Search for data across organizations and use it with confidence based on the associated metadata. Follow organizations, groups, or datasets to be notified of updates.	
	PRIVACY	Publish datasets as private so only members of the organization can access it. Restrict downloads to only allowed users or groups, but make the metadata record viewable.	
	ACCESSIBILITY	Publish datasets with clear metadata and make it more accessible for users. Link it to other data to increase the reproducibility of workflows.	
	FLEXIBILITY	Publish data in a variety of formats (KML, File Geodatabase, GeoTIFF, PDF, shapefile). Include ESRI layer files or mxds that reference the data.	
	VERSIONING (DATA & METADATA)	Update datasets as they evolve: keep the current version of data live, with the option to request access to previous versions. Receive a README file with download information including timestamp. Get access to previous versions of metadata that is archived when a dataset resource is updated . Metadata template document ( <a href="https://www.gis-hub.ca/dataset/meta-template">https://www.gis-hub.ca/dataset/meta-template</a> ) .	
		CONTROL	Only editors within organizations can publish datasets .
		IMPROVEMENTS	Hyperlinks/markdown formatting support for many metadata fields, dataset tracking to order by popularity, collapsible metadata sections, non-science keywords restricted to GOC thesaurus words. Species codes functionality <b>UPDATED</b> . Raster web map previews ( <a href="https://maps.gis-hub.ca/raster/env_layers_nsbssb_bathymetry">https://maps.gis-hub.ca/raster/env_layers_nsbssb_bathymetry</a> ) <b>NEW</b> . Improved speed for vector previews ( <a href="https://maps.gis-hub.ca/vector/coral_sponge_obs/black_corals">https://maps.gis-hub.ca/vector/coral_sponge_obs/black_corals</a> ) <b>UPDATED</b> .
	STATS & DOCUMENTATION	Statistics on GIS Hub: <a href="https://www.gis-hub.ca/stats">https://www.gis-hub.ca/stats</a> <b>NEW</b> . Documentation: <a href="https://www.gis-hub.ca/docs">https://www.gis-hub.ca/docs</a> <b>UPDATED</b>	
		GROUPS	Grouped datasets for organization and quick access ( <a href="https://www.gis-hub.ca/group">https://www.gis-hub.ca/group</a> ): Environmental Layers, Fetch, GIS Spill Response Go Kit Species Distribution Modelling, Substrate. Editors can now create their own groups <b>NEW</b> .

## OVERVIEW

ORGANIZATION	DATASETS
Canadian Hydrographic Service	0
Environmental Emergency Response	7 (7 Private)
Marine Spatial Ecology and Analysis	47
Pacific Science	0
Fisheries Management	1
Oceans	0
National	0
Fish and Fish Habitat Protection Program (FFHPP)	0

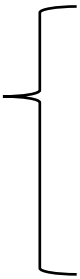
## DATASETS

FISHERIES MANAGEMENT	COMPLETED DATE	PUBLISHED DATE	
Sponge Reef Fishery Closures in Howe Sound and Strait of Georgia	2019	2020	
CANADIAN HYDROGRAPHIC SERVICE	COMPLETED DATE	PUBLISHED DATE	
Bottom Qualities and Classification DFO Pacific Region <b>REMOVED</b>	2015	2020	
Pacific Kelp <b>REMOVED</b>	2020	2020	

CHS Pacific Low Water Line REMOVED	2012	2020	
Pacific EEZ Water Area Polygon REMOVED	2016	2020	
CHS Pacific High Water Line REMOVED	2013-2015	2019	
ENVIRONMENTAL EMERGENCY RESPONSE	COMPLETED DATE	PUBLISHED DATE	
Clam Beds - Coastal Resource Information Management System PRIVATE RECORD	2019	2020	
Sea Otter Range PRIVATE RECORD	2017	2020	
Scott Islands Marine National Wildlife Area PRIVATE RECORD	2018	2020	
DFO Marine Protected Areas PRIVATE RECORD	2016	2020	
Hecate Strait/QCS Glass Sponge Reefs MPA PRIVATE RECORD	2017	2020	
Rockfish Conservation Areas PRIVATE RECORD	2006	2020	
Pacific Fisheries Management Subareas PRIVATE RECORD	2019	2020	
MARINE SPATIAL ECOLOGY AND ANALYSIS	COMPLETED DATE	PUBLISHED DATE	
Modelling the environmental niche space and distributions of cold-water corals and sponges in the Canadian northeast Pacific Ocean	2017	2020	
Presence Absence Observations of Coral and Sponge Groups	2020	2020	
Surface chlorophyll from satellite observations	2017	2020	
Environmental Layers <ul style="list-style-type: none"><li>Nearshore North Central Coast (20 m) PRIVATE DATA</li><li>Nearshore Haida Gwaii (20 m) PRIVATE DATA</li><li>Nearshore QCS (20 m) PRIVATE DATA</li><li>Nearshore West Coast Vancouver Island (20 m) PRIVATE DATA</li></ul> Includes: <ul style="list-style-type: none"><li>Bathymetry, standardized BPI layers at 3 scales, slope, rugosity, tidal and circulation current speed, substrate index layers, salinity, temperature, fetch sum (proxy for exposure) and fetch min (proxy for distance to land).</li></ul>	2020	2020	
Environmental Layers <ul style="list-style-type: none"><li>Salish Sea (20 m) PRIVATE DATA</li></ul> Includes: <ul style="list-style-type: none"><li>Bathymetry, standardized BPI layers at 3 scales, slope, rugosity, tidal and circulation current speed, substrate index layers, salinity, temperature, fetch sum (proxy for exposure) and fetch min (proxy for distance to land), diatoms, nitrogen.</li></ul>	2020	2020	
Environmental Layers <ul style="list-style-type: none"><li>Northern Shelf &amp; Southern Shelf Bioregions (100 m)</li></ul> Includes: <ul style="list-style-type: none"><li>Bathymetry, standardized BPI layers at 3 scales, tidal and circulation current speed, substrate index layers, salinity, temperature, chlorophyll a.</li></ul>	2019	2020	
Species Distribution Models - Northern and Southern Shelf Bioregion Species (CSAS 2020-004)	2019	2020	
Species Distribution Models - Nearshore North Central Coast Species (CSAS 2020-004)	2019	2020	
Shallow substrate model (20m) of the Pacific Canadian coast	2019	2020	
Deep substrate model (100m) of the Pacific Canadian shelf	2018	2018	
Important Areas WCVI Ecoregion <ul style="list-style-type: none"><li>Birds</li><li>Coral and Sponge</li><li>Geography</li><li>Invertebrates</li><li>Fish</li><li>Other Vertebrates</li><li>Cetaceans</li></ul>	2009	2020	
Important Areas PNCIMA Ecoregion <ul style="list-style-type: none"><li>Birds</li><li>Coral and Sponge</li><li>Geography</li><li>Invertebrates</li><li>Fish</li></ul>	2005	2020	

<ul style="list-style-type: none"><li>Other Vertebrates</li><li>Cetaceans</li></ul>			
Important Areas SOG Ecoregion <ul style="list-style-type: none"><li>Birds</li><li>Sponge Reefs FGP</li><li>Geography</li><li>Invertebrates</li><li>Fish</li><li>Other Vertebrates</li><li>Cetaceans</li></ul>	2009	2020	
Gridded Nearshore Fetch	2020	2020	
Coastline Fetch estimates for Pacific Canada	2015	2018	
Species Distribution Modelling Boundaries	2020	2020	
Floating Structures in the Pacific Northwest	2018	2018	
Diversity, Richness, and Biomass Hotspots	2016	2019	
Temperature, salinity, and currents of coastal BC: bottom waters	2018	2019	
Seamounts FGP	2017	2018	
British Columbia ShoreZone Mapping	2007	2018	
Sponge Reef Areas FGP	2017	2018	
Bottom Substrate Observations PRIVATE RECORD	2015	2019	
Coastal bathymetry (20 m) for Pacific Canadian waters NEW	2018	2020	
Bottom Patches for coastal British Columbia, Canada. Version 1.1	2017	2018	
Bottom Patch Linked with Potential Exposure as Proxy for Species Habitat QA/QC PRIVATE RECORD	2020	2020	

IN DEVELOPMENT



ADDITIONAL DATASETS

Environmental emergency response datasets (mix of public and private data).  
Pacific marine ecological classification system (PMECS) data.

SUPPORTING FGP

Export HNAP-valid XML files that can be published to FGP/OpenData through appropriate channels.

IMPROVED WEB MAPPING PREVIEWS

Embed map preview on resource page.