

GIS Hub Summary: September 2020

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

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

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60+

ACTIVE MEMBERS

40+





PUBLIC DATASETS AND COLLECTIONS

GIS HUB FEATURES

GIS HUB FEATURES	DASHBOARD	<div><div><div><div></div><div>Follow</div></div></div>Datasets, Organizations, or Groups, and view updates on your Dashboard's News feed</div> <div>UPDATED</div>
	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 publishing organization can access it. Restrict downloads to only allowed users, but make the dataset metadata viewable.
	ACCESSIBILITY	Publish datasets with clear metadata and make it more accessible for users. Link it to other data or code repositories such as MSEA Code <div>UPDATED</div> 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 datestamp. Get access to previous versions of metadata that is archived when a dataset resource is updated . Metadata template document .
	CONTROL	Only editors within organizations can edit 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 – now shows species names <div>UPDATED</div> . Large dataset processing and increased server capacity <div>UPDATED</div> . Raster web map previews . Improved speed for vector previews . Embed map preview on resource page <div>NEW</div> .
	STATS & DOCUMENTATION	Statistics on GIS Hub <div>UPDATED</div> . Publishing Guide/Documentation <div>UPDATED</div> .
	GROUPS	Dataset Groups for organization: Environmental Layers, Fetch, GIS Spill Response Go Kit Species Distribution Modelling, Substrate, NSB MPA Network Ecological Data <div>NEW</div> . Editors can now create their own groups <div>UPDATED</div> .

PRIVATE RECORD – The dataset (metadata and data download) is only accessible to members of the organization that published the data.

PRIVATE RESOURCE – The dataset metadata is viewable to all users. However, one or more resources in the dataset are restricted to certain users. Unauthorized users cannot view the restricted resource or download the dataset, but can request access from the data maintainer.

OVERVIEW			
ORGANIZATION		DATASETS	
Canadian Hydrographic Service		0	
Environmental Emergency Response		7	
Marine Spatial Ecology and Analysis		59	
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 REMOVED	2015	2020	
Pacific Kelp REMOVED	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	
NSB MPA Network Ecological Data NEW <ul style="list-style-type: none">Area Features PRIVATE RESOURCEBird Colonies PRIVATE RESOURCEBird Density Features PRIVATE RESOURCEFish and Invertebrate Density Features PRIVATE RESOURCEInvertebrate Presence Features PRIVATE RESOURCEMammal Density Features PRIVATE RESOURCECoarse Features PRIVATE RESOURCEPlants and Algae PRIVATE RESOURCEOther Bird Features PRIVATE RESOURCEOther Fish Features PRIVATE RESOURCEOther Invertebrate Features PRIVATE RESOURCEOther Marine Mammal and Reptile Features PRIVATE RESOURCECCIRA Features PRIVATE RESOURCE	2020	2020	
Bottom Patch Linked with Potential Exposure as Proxy for Species Habitat NEW	2020	2020	
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">Nearshore North Central Coast (20 m)	2020	2020	

<ul style="list-style-type: none"> Nearshore Haida Gwaii (20 m) Nearshore QCS (20 m) Nearshore West Coast Vancouver Island (20 m) Includes: <ul style="list-style-type: none"> Bathymetry PRIVATE RESOURCE, 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). 			
Environmental Layers <ul style="list-style-type: none"> Salish Sea (20 m) Includes: <ul style="list-style-type: none"> Bathymetry PRIVATE RESOURCE, 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. 	2020	2020	
Environmental Layers <ul style="list-style-type: none"> Northern Shelf & Southern Shelf Bioregions (100 m) Includes: <ul style="list-style-type: none"> Bathymetry, standardized BPI layers at 3 scales, tidal and circulation current speed, substrate index layers, salinity, temperature, chlorophyll a. 	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"> Birds Coral and Sponge Geography Invertebrates Fish Other Vertebrates Cetaceans 	2009	2020	
Important Areas PNCIMA Ecoregion <ul style="list-style-type: none"> Birds Coral and Sponge Geography Invertebrates Fish Other Vertebrates Cetaceans 	2005	2020	
Important Areas SOG Ecoregion <ul style="list-style-type: none"> Birds Sponge Reefs FGP Geography Invertebrates Fish Other Vertebrates Cetaceans 	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	2018	2020	

<ul style="list-style-type: none">Haida Gwaii PRIVATE RESOURCENorth Central Coast PRIVATE RESOURCEQueen Charlotte Strait PRIVATE RESOURCEStrait of Georgia PRIVATE RESOURCEWest Coast Vancouver Island PRIVATE RESOURCE			
Bottom Patches for coastal British Columbia, Canada. Version 1.1	2017	2018	

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.