

GIS Hub Summary: May 2020

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

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

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40+

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 accessible

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 (<https://www.gis-hub.ca/dataset/meta-template>)

CONTROL

Only editors within organizations can publish datasets

IMPROVEMENTS

Hyperlinks/markdown formatting support for many metadata fields, better functionality for Species Codes, dataset tracking to order by popularity, collapsible metadata sections, non-science keywords restricted to GOC thesaurus words.

GROUPS

Grouped datasets for organization and quick access (<https://www.gis-hub.ca/group>): Environmental Layers **UPDATED**, Fetch, GIS Spill Response Go Kit **UPDATED**, Species Distribution Modelling, Substrate

OVERVIEW

ORGANIZATION

DATASETS

Canadian Hydrographic Service

0

Environmental Emergency Response

7 (7 Private)

Marine Spatial Ecology and Analysis

44 (5 Private)

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 **NEW**

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 **QA/QC PRIVATE**

2019

2020

Sea Otter Range **QA/QC PRIVATE**

2017

2020

Scott Islands Marine National Wildlife Area **PRIVATE**

2018

2020

DFO Marine Protected Areas **PRIVATE**

2016

2020

Hecate Strait/QCS Glass Sponge Reefs MPA **PRIVATE**

2017

2020

Rockfish Conservation Areas **PRIVATE**

2006

2020

Pacific Fisheries Management Subareas **PRIVATE**

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 NEW	2017	2020
Presence Absence Observations of Coral and Sponge Groups NEW	2020	2020
Surface chlorophyll from satellite observations	2017	2020
Environmental Layers <ul style="list-style-type: none"> Nearshore North Central Coast (20 m) NEW PRIVATE Nearshore Haida Gwaii (20 m) NEW PRIVATE Nearshore QCS (20 m) NEW PRIVATE Nearshore West Coast Vancouver Island (20 m) NEW PRIVATE Includes: <ul style="list-style-type: none"> 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). 	2020	2020
Environmental Layers <ul style="list-style-type: none"> Salish Sea (20 m) NEW PRIVATE Includes: <ul style="list-style-type: none"> 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. 	2020	2020
Environmental Layers <ul style="list-style-type: none"> Northern Shelf & Southern Shelf Bioregions (100 m) NEW 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
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 FGP	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



