KHOA Beta Gazetteer - GEBCO Gazetteer Interoperation

March 17, 2022

SCUFN 35.1

Paris, France

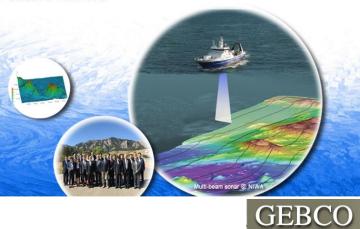
Kyung Chul Park
KHOA
KHOA Operational Webservices

Woo Ju Kim KHOA KHOA Operational Webservices Chris Slater NOAA GEBCO Gazetteer SCUFN INTRODUCTION TERM AND DEFINITION SUBMISSION REPOSITORY BETA-GAZETTEER REVIEW LOGOUT

GEBCO Sub-Committee on Undersea Feature Names

Online registration System

- Create proposal forms with ease
- Submit your proposals online
- Check results of proposal review anytime, anywhere
- Easy search for undersea feature names







TERM & DEFINITION

Definition of general terms and representative images



PROPOSAL SUBMISSON

Create Proposal Forms with ease, Submit Your Proposals Onlie



SEARCH & VIEW

Easy search and check your submitted

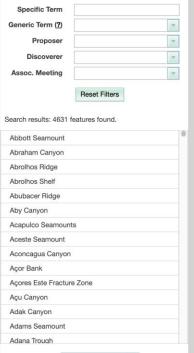
GAZETTEER

Search for registered Under sea feature name



Undersea Feature Search

Undersea Feature Names Gazetteer



Export results as:

Gazetteer Version: 4.3.6





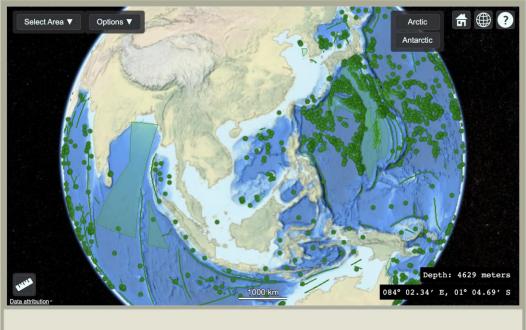


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Log In API Help

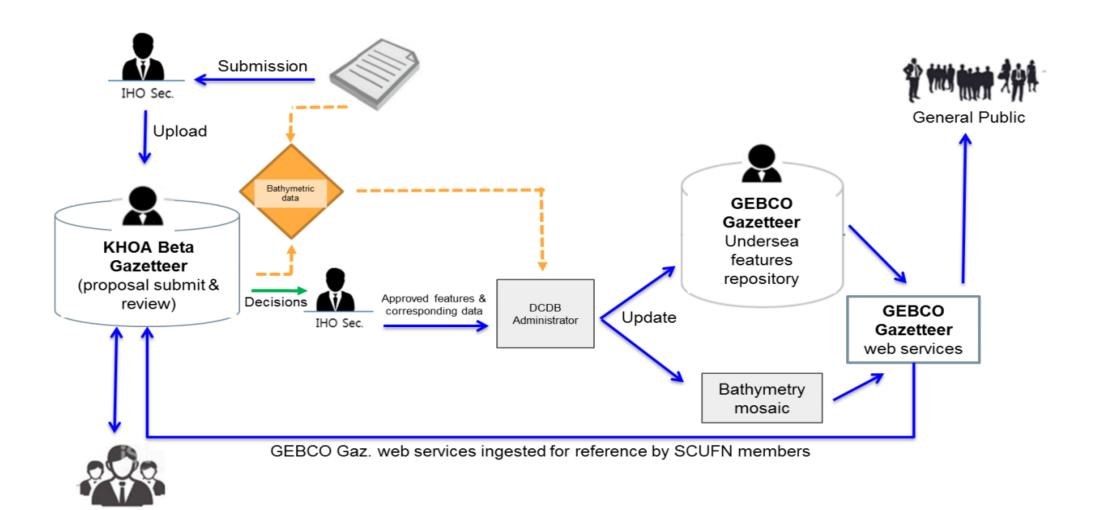
API Help





Architecture agreed at SCUFN-32

SCUFN Members

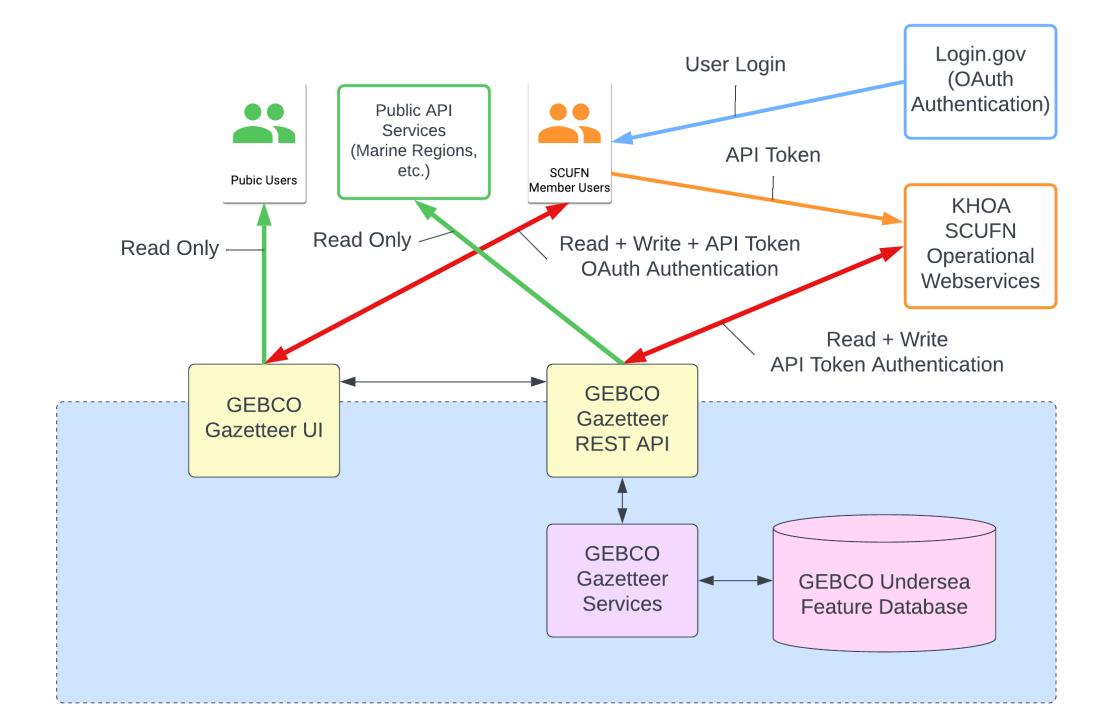


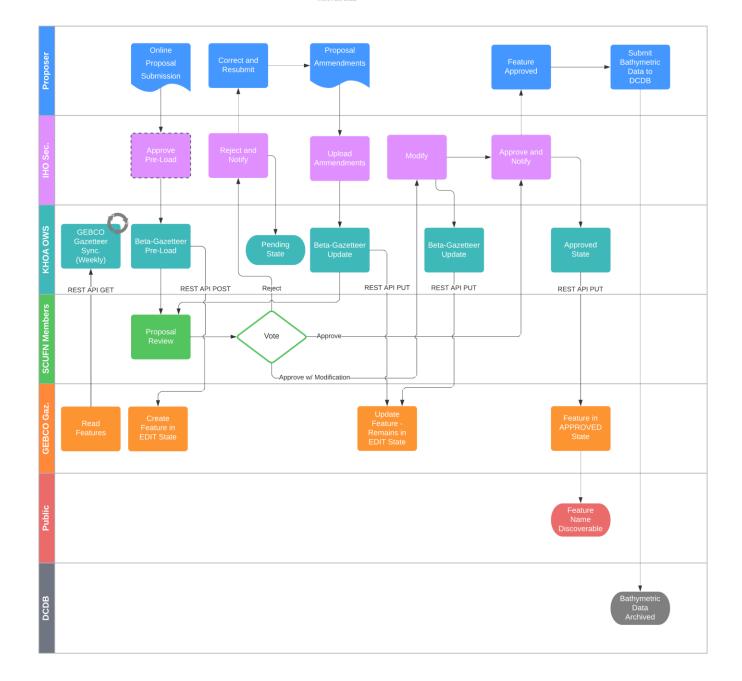
Technical Terms

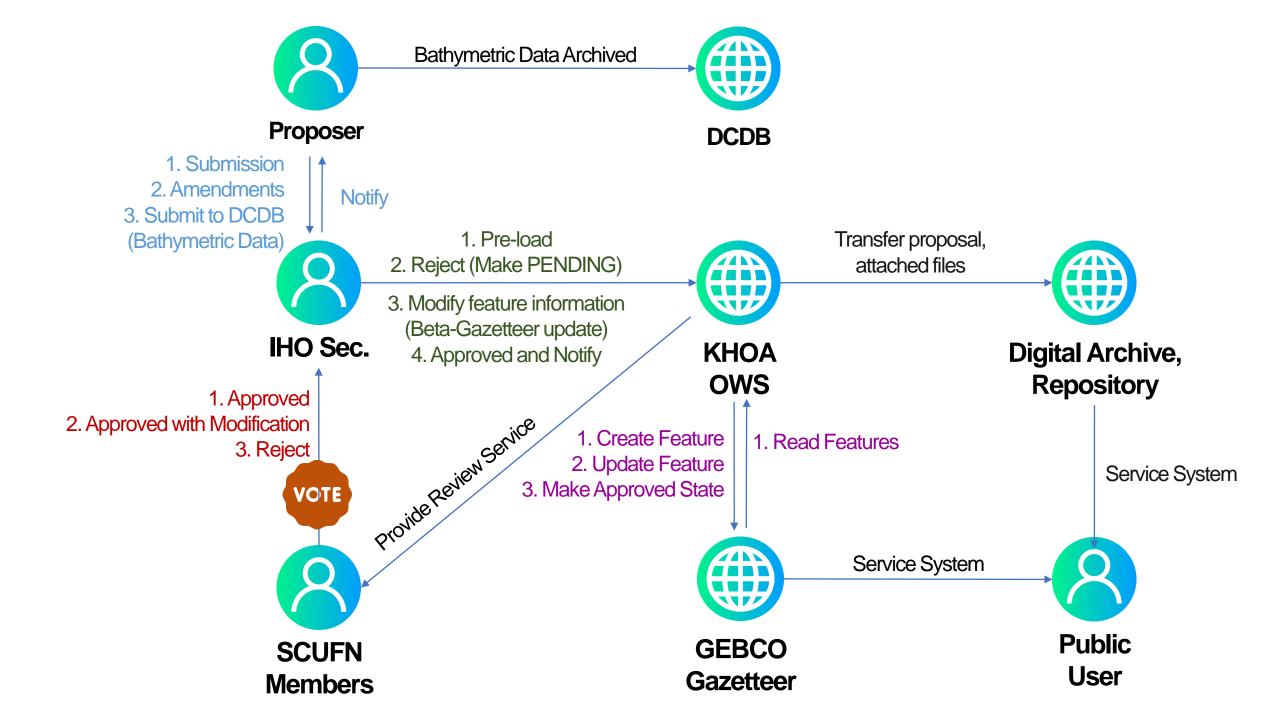
- REST REpresentational State Transfer
 - A set of architectural constraints used to transfer data on the web
- API Application Programming Interface
 - A well-defined contract for inter-application operation
- OAuth
 - A standard for authentication on the web
- API Token
 - A secret passed from client to service for authentication
- HTTP HyperText Transfer Protocol
 - The communications protocol used to connect to web servers on the Internet or on a local network
- HTTP Header
 - A small amount of data sent in addition to the main payload when making a request over HTTP

GEBCO Gazetteer Authentication

- GEBCO Gazetteer will use OAuth 2.0 for (human) user authentication using Login.gov
- An admin user with sufficient privileges can generate an API token for use with the KHOA Beta Gazetteer
- Generated API tokens are tied to fine grained access control rules, granting create and update permission to undersea features
- KHOA Beta Gazetteer will present this API token as a "Bearer" token in the "Authorization" HTTP header in API requests to the GEBCO Gazetteer API







GEBCO Gazetteer Test Environment

- A test environment will be available at https://ccog.colorado.edu/gazetteer5
- API documentation is available at https://ccog.colorado.edu/gazetteer5/view/admin/api-docs

Timeline

- 2022/04
 - GEBCO Dev GEBCO Gazetteer v5 development
 - KHOA Dev Preparation of Beta-Gazetteer Sending/Receiving API's JSON Data
- 2022/05
 - GEBCO Dev GEBCO Gazetteer v5 development
 - KHOA Dev Testing for data transport with GEBCO API v5.0
- 2022/10
 - KHOA Dev Keep Development Function and Sending/Receiving Data Test
- 2022/04 2023/04
 - GEBCO Dev Ongoing support from GEBCO Gazetteer development team for Beta Gazetteer development
 - Questions
 - Testing support
 - API enhancements

Recommendations

 SCUFN members provide support and feedback as needed during development of the GEBCO Gazetteer and KHOA Beta-Gazetteer interoperation

Justification & Impacts

- Annual funding of both KHOA SCUFN Operational Webservices and the GEBCO Gazetteer is essential and will continue to be used to:
 - Perform regular maintenance and upgrades of both KHOA SCUFN OWS and the GEBCO Gazetteer
 - Support incremental development to facilitate interoperability between KHOA SCUFN OWS and the GEBCO Gazetteer

Actions required of SCUFN

- SCUFN is invited to:
 - note this paper;
 - consider the Recommendations and Impacts listed.