# Report by NOAA/NCEI on maintenance issues to SCUFN

Jennifer Jencks
Director
IHO Data Centre for Digital Bathymetry
jennifer.jencks@noaa.gov

Chris Slater
Lead Software Developer
NOAA NCEI/CIRES
chris.slater@noaa.gov

## Introduction

- 1. NOAA NCEI has hired a third software developer since SCUFN32.
- 2. The software development team began addressing Gazetteer issues and enhancement requests in March 2020.
- 3. The updates made to Gazetteer v4.1.3 have now addressed ALL outstanding issues.
  - SCUFN32-07.1A identified 23 areas of improvement for the previous version of the Gazetteer.
  - Three additional requests for improvement were made via email in 2019.

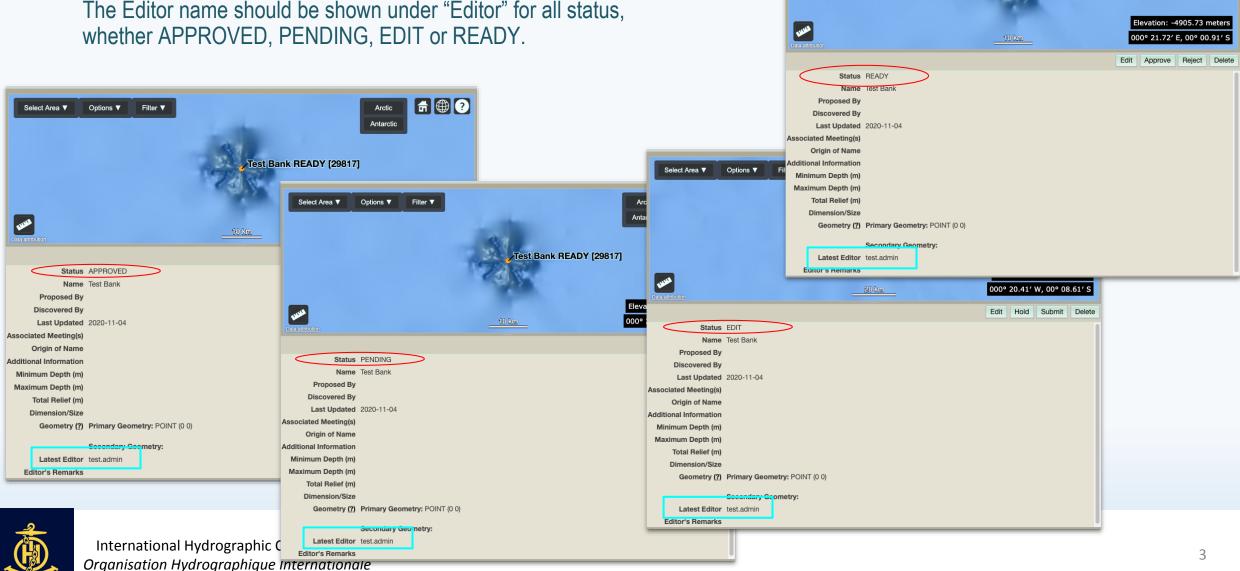






#### Issue A.14: Editor name

The Editor name should be shown under "Editor" for all status,



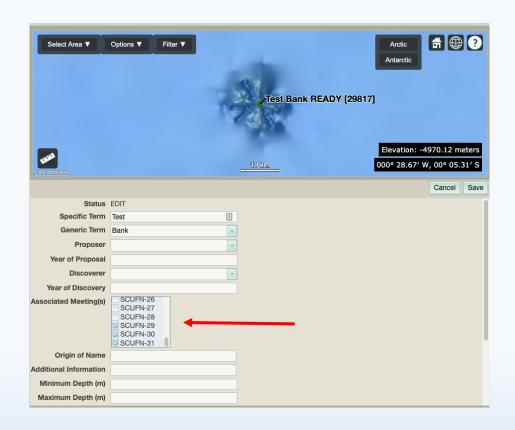
# (2)

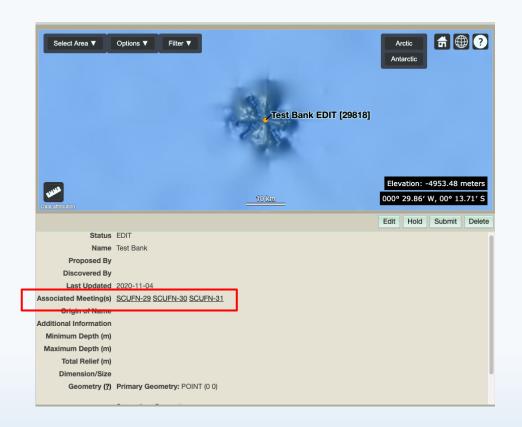
Test Bank READY [29817]

Options ▼

## Issue A.16: Display of Information – Associated Meeting

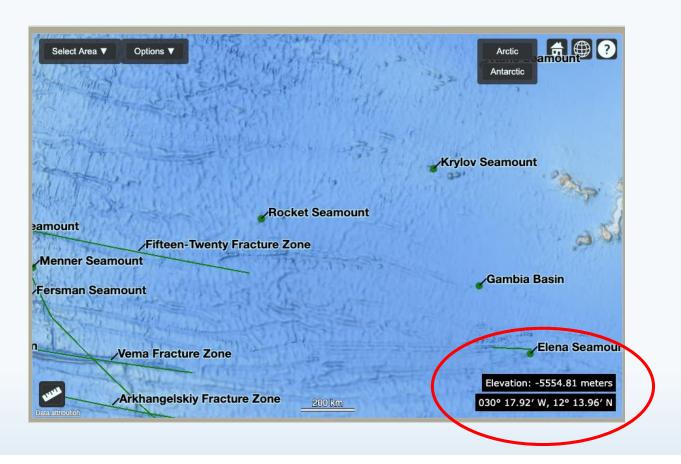
The ability to enter up to <u>three associated meetings</u>, shown on same line, in order to trace back the history of a name if needed.





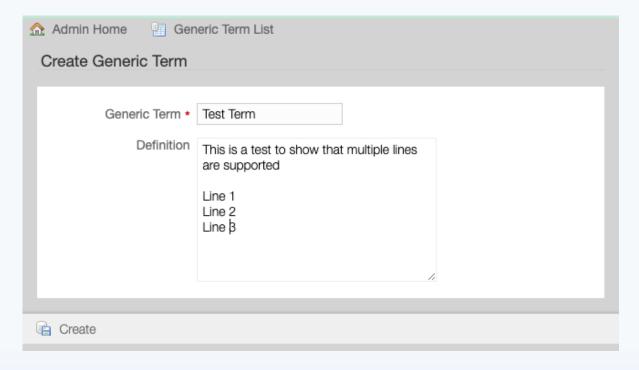
## Issue A.17: Display of Depth on the Chart Background.

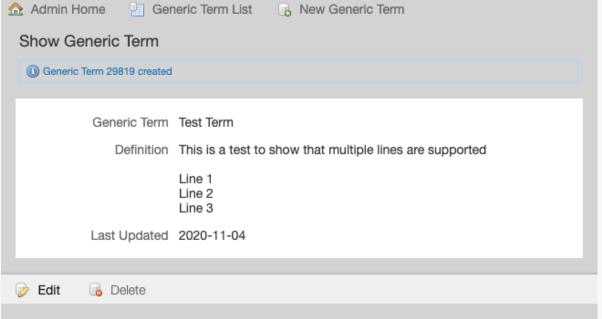
Add depth display in meters as an option, that is, Long, Lat, Depth, using the GEBCO gridded bathymetry database.



## Issue B.3: Feature Type List.

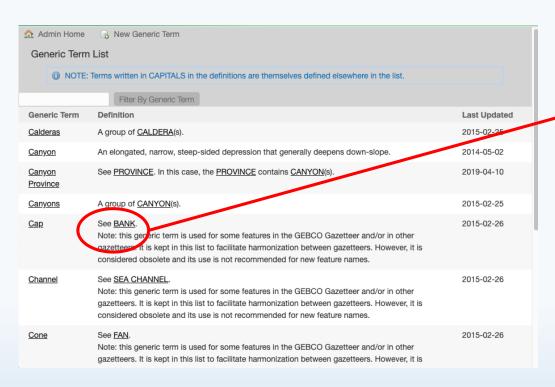
If, during the editing of a feature type, one clicks on the "return" key to start a new line, this change is not reflected in the updated text on display.

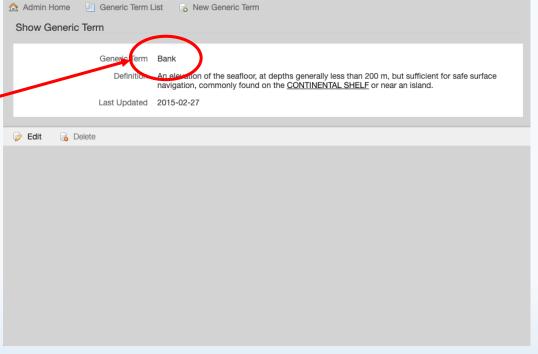




## Issue B.5: Feature Types List.

When the description of a Feature Type is not provided because reference is made to another Feature Type, there should be a hyperlink from the relevant word to the actual description for that Feature Type.



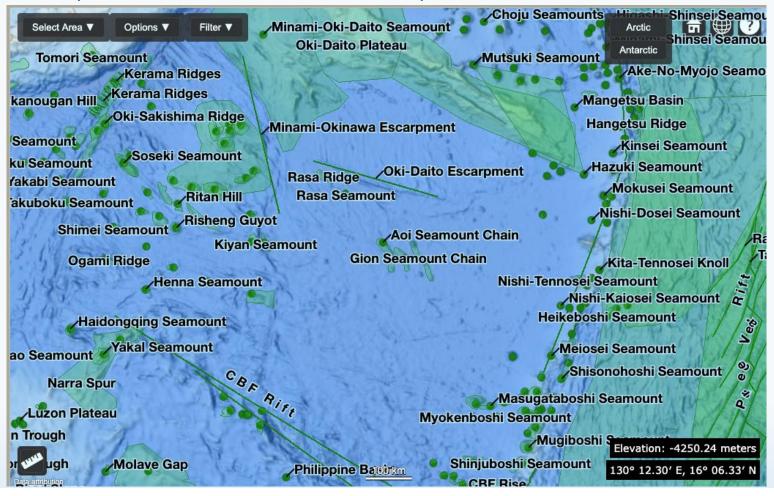


## Issue B.6: Feature Type List.

The following "Note" should be included at the top of each page: "NOTE: Terms written in CAPITALS in the definitions are themselves defined elsewhere in the list."

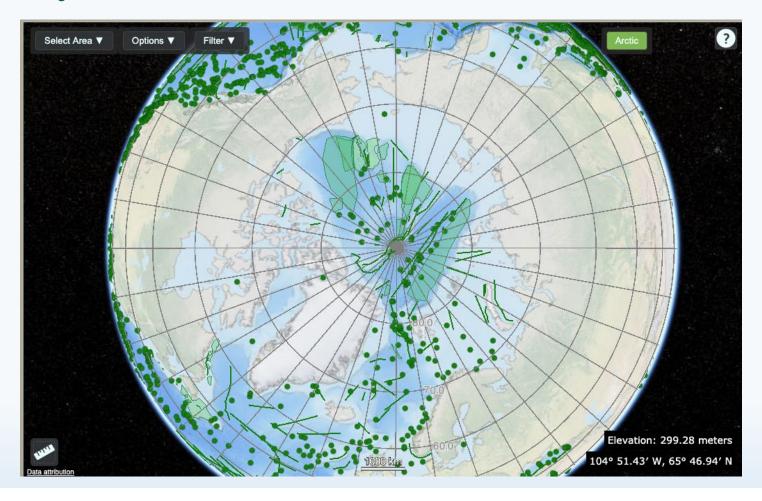
	ne G New Generic Term	
Generic Te	erm List	
① NO	TE: Terms written in CAPITALS in the definitions are themselves defined elsewhere in the list.	
	Filter By Generic Term	
Generic Tern	1 Definition	Last Updated
<u>Calderas</u>	A group of <u>CALDERA(s)</u> .	2015-02-25
Canyon	An elongated, narrow, steep-sided depression that generally deepens down-slope.	2014-05-02
<u>Canyon</u> <u>Province</u>	See <u>PROVINCE</u> . In this case, the <u>PROVINCE</u> contains <u>CANYON(s)</u> .	2019-04-10
Canyons	A group of <u>CANYON(s)</u> .	2015-02-25
<u>Cap</u>	See <u>BANK</u> .  Note: this generic term is used for some features in the GEBCO Gazetteer and/or in other gazetteers. It is kept in this list to facilitate harmonization between gazetteers. However, it is considered obsolete and its use is not recommended for new feature names.	2015-02-26
Channel	See <u>SEA CHANNEL</u> .  Note: this generic term is used for some features in the GEBCO Gazetteer and/or in other gazetteers. It is kept in this list to facilitate harmonization between gazetteers. However, it is considered obsolete and its use is not recommended for new feature names.	2015-02-26
Cone	See <u>FAN</u> .  Note: this generic term is used for some features in the GEBCO Gazetteer and/or in other gazetteers. It is kept in this list to facilitate harmonization between gazetteers. However, it is	2015-02-26

Improve 3D Earth map colors and reduce label clutter in complex areas.

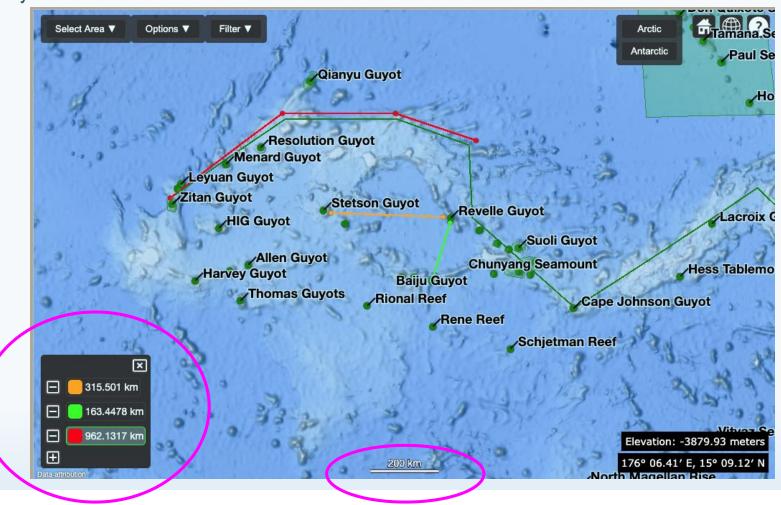




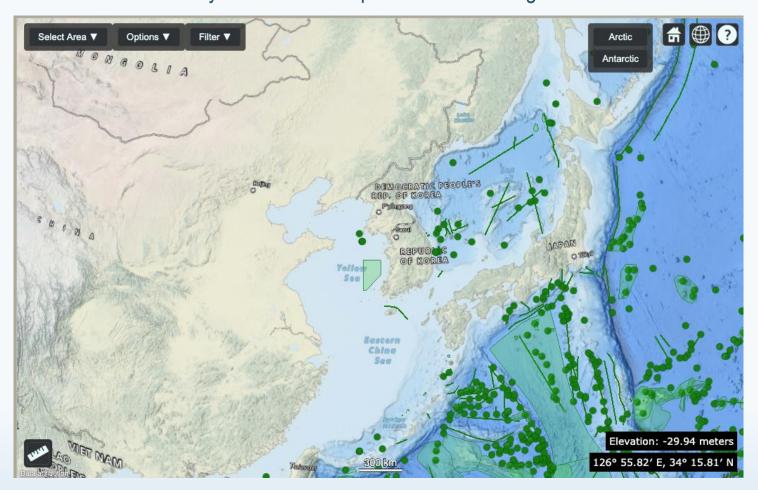
Improved polar view navigation.



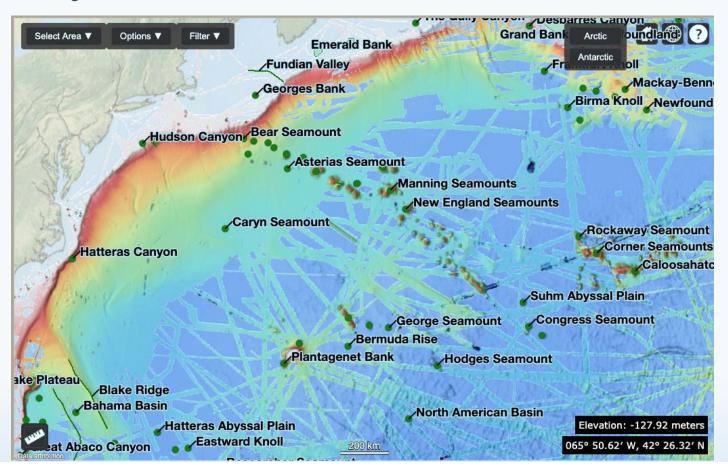
Added display scale and measure tool.



Added boundaries and world name layers that are compliant with UN recognized names.



Added NOAA NCEI's Multibeam Bathymetry Mosaic ArcGIS image service to the Gazetteer. The service provides a color shaded relief visualization of gridded multibeam data from the entire NCEI/DCDB archive.



## Gazetteer V5.0 - Spring, 2021

Significant changes are needed in the current GEBCO Gazetteer in order to support the KHOA Beta-Gazetteer integration and simplify future development.

The goals for the upcoming development cycle include:

- Updating the API (Application Programming Interface) to be cohesive and flexible for future enhancements
- Adding integration points to the API for Beta-Gazetteer integration
- Adding standards-based authentication, OAuth, in order to provide easier and more secure integration with the Beta-Gazetteer
- Providing API documentation for use by KHOA's software developers
- Supporting KHOA's developers as they develop and test the Beta-Gazetteer integration
- Updating the user interface to use a modern and more maintainable framework, Vue.js

## Gazetteer V5.0 - Spring, 2021

Care will be taken when designing and developing the API in v5.0 of GEBCO Gazetteer.

The new API should allow the Beta-Gazetteer and the GEBCO Gazetteer to evolve independently, minimizing tightly coupled development efforts.

This can be achieved by adhering to the following rules when enhancing the API:

- Changes to the API will only consist of additions, which will be considered optional. Users of the API can omit these additions to maintain functionality between Gazetteer versions.
- Existing features of the API will remain consistent between Gazetteer versions.
- The API will have its own version, independent of the Gazetteer version, which will only be updated if major changes are needed where backwards compatibility can not be maintained. This should be extremely rare.
- Should major changes be needed in the API, a new version will be created and the older API version will be deprecated, but maintained for some period of time.

## Recommendations

- 1. SCUFN Members continue to test the improvements made to date and notify the IHO DCDB of any issues.
- 2. SCUFN members provide support and feedback when needed during development of the GEBCO Gazetteer and KHOA Beta-Gazetteer integration.

# **Justification & Impacts**

- 1. It should be understood that continued improvements and enhancements of the Gazetteer will remain incremental. Annual funding of 40K/year has been secured and will be used to:
  - a. Perform annual maintenance and upgrades (when necessary)
  - b. Implement a limited number of requested enhancements
  - c. Progress the development of the GEBCO Gazetteer and KHOA Beta-Gazetteer integration

## Actions required of SCUFN

#### SCUFN is invited to:

- a. note this paper;
- b. consider the Recommendations and Impacts listed.