Progress on the Improvement to the SCUFN Integrated Website and Future Plan

23-27 October 2018 31st SCUFN Meeting, Wellington, New Zealand

Boram Jang Korea Hydrographic and Oceanographic Agency

I. Status of SCUFN Systems

Aims

Provide support for simplifying & automating the process of registering int'l UFNs

Systematically manage UFN proposals and database

Visualize and maximize the use of UFN data

Generic Term and Definition Website

 Proposed at the SCUFN-23

Proposal Submission & Review Websites

- Proposed at the SCUFN-26 (Action SCUFN26/67)
- Developed the Proposal Submission and Review websites
- Sophisticated work was conducted

2013 - 2016

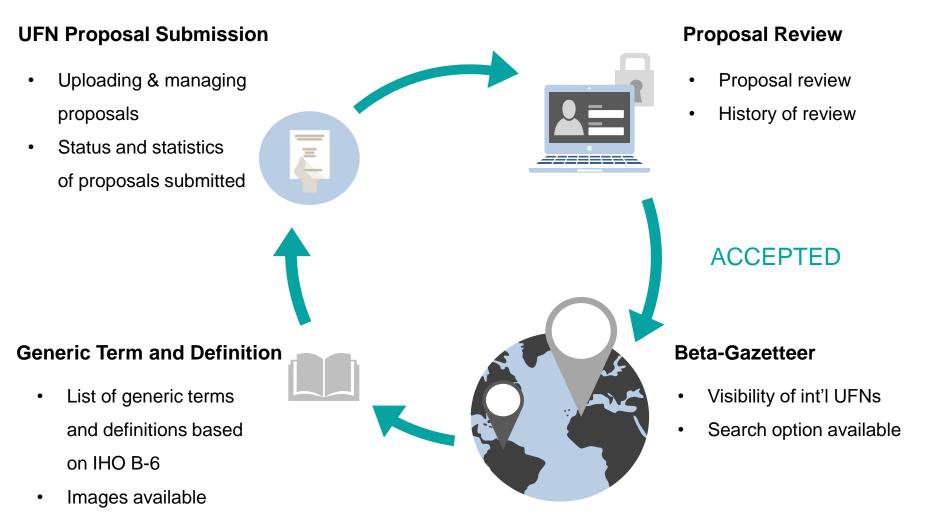
Beta-Gazetteer

- Proposed at the SCUFN-29 (Action SCUFN29/150)
- Developed the Integrated Website and the Beta-Gazetteer
- Potentially connect with S-100

2017 - 2018

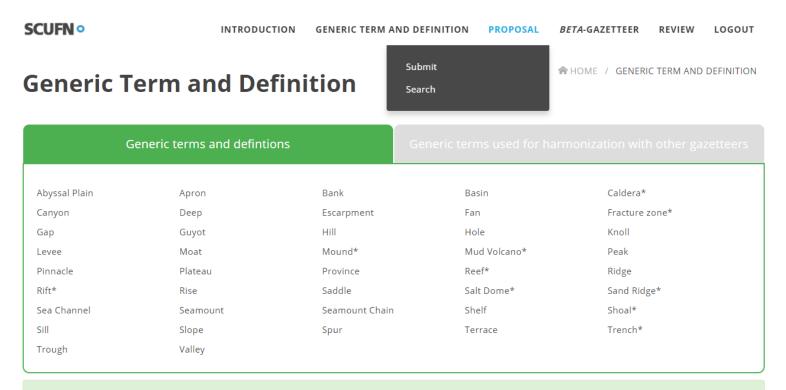
2011 - 2012

II. Overview of the SCUFN Integrated Website



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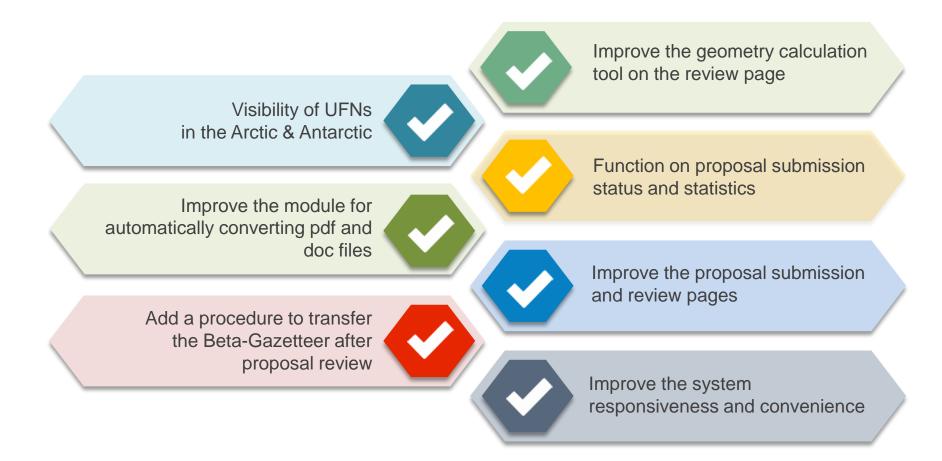
Contents



- Terms written in capitals in the definitions are themselves defined elsewhere in the list.
- The plural form of a generic term may be used to represent a closely associated group of features of the same generic type (e.g. Seamounts).
- Generic terms for features that have a genetic implication are marked with an asterisk (*).

III. Feedback from SCFUN Members

Feedback from the members (Action SCUFN30/148)



IV. Completed Improvements

Visibility of UFNs in the Arctic & Antarctic

1. Problem of the mercator projection

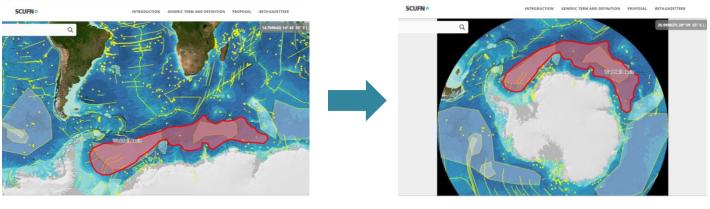
Undersea features were largely shown distorted. The areas beyond 85° were not shown at all respectively in the Arctic & Antarctic.

2. Analysis of cases abroad

Analyzed the coordinate reference system of the Web GIS used overseas.

3. Selection of projection

UFNs are no longer distorted with the appropriate projection and selection of the appropriate base map.



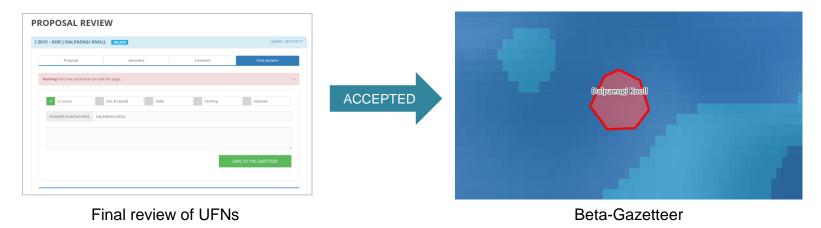
IV. Completed Improvements

Improved the module for automatically converting pdf and doc files

- The module can now extract not only coordinates but also all sorts of information contained in the proposal.
- Automated the data converting process which reduces the time and accuracy of conversion.

Added a procedure to transfer the Beta-Gazetteer after proposal review

- UFNs approved by the Secretary are automatically transferred to the Beta-Gazetteer
- A final review page is shown before transferring them to the Beta-Gazetteer to validate the data



V. Ongoing Improvements

Function on proposal submission status and statistics

- Since the systems for submission and review were developed in 2014 there's no data before that.
- It's required to collate and input the proposals submitted before 2014 into the system to provide more accurate statistics
- IHO Secretariat's support is required

Improve the proposal submission and review pages

- Prevent duplicate proposals
- Validate each item when registering proposals
 - Improved validation per item
 - Authority and function to correct wrong information

Improve the geometry calculation tool on the review page

Improve the system responsiveness and convenience

VI. Future Plan

Connecting the Beta-Gazetteer with S-100

Extend the data structure of the Beta-Gazetteer to S-100
Apply not only UFN attributes but also portrayal symbols

- Extend the data model
- Apply undersea feature symbols
- Data exchange format



Beta-Gazetteer

Feature Catalogue

- Portrayal Catalogue
- Validation checks
- Data Classification and Encoding Guide
- Exchange format

S-100 UFN PS

VI. Future Plan

Support the work of SCUFN using S-100 infrastructure



Experience

Wide experience from developing the SCUFN integrated website

S-100 Development Tool

Can use S-100 Viewer to produce a catalogue and sample data

Maintenance

Continue to maintain this website

Thank you

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