**SCUFN37-07.03A**

Paper for Consideration by SCUFN

Report by KHOA on the development of the
IHO SCUFN Archive/Repository/Submission. Work Plan

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| ***Submitted by:*** | KHOA  |
| ***Executive Summary:*** | Report on Archive/Repository improvements of SCUFN OWS, the current status of tests of new version’s proposal submission function and future plans according to Decisions and Actions from SCUFN36 |
| ***Related Documents:*** | SCUFN36-07.3A, SCUFN36-07.3C  |
| ***Related Projects:*** | N/A |

## Introduction / Background

Korea Hydrographic and Oceanographic Agency (KHOA) has developed SCUFN Operation Web Services (OWS) to advance the SCUFN review process and continued to improve its functions to make it more user-friendly and more efficient until now. As the number of proposals submitted to SCUFN has increased in recent years, call for the improvement of the proposal submission function has led to the development of a new version. Considering IHO Secretariat’s request on SCUFN Digital Archive already developed in 2021, some functions have been improved. This report shows the recent improvements of SCUFN OWS and the current status of maintenance.

**Analysis/Discussion**

**1. SCUFN OWS Submission**

1-1. Improvements related to SCUFN OWS proposal submission

KHOA has developed a system that member states can directly submit their proposals through SCUFN OWS and improved some administrator’s functions to manage proposals. Improvements are as follows:

1) User function

* Upload multiple proposals of up to 5 at once
* Registration / Management functions for proposers
* Modify / Revision / Delete / Withdrawn functions for proposals

2) Administrator function

* Browsing service for every submitted proposal
* Function to assign proposal reviews (create a timeline to determine which proposals to be reviewed this year)
* Function to change proposal review status and Proposal Revision function

3) Proposal review function

* Browsing service for proposals to be reviewed this year

4) Linkage with Gazetteer

* Preload information of the submitted proposals on the GEBCO Gazetteer
* Data Synchronization on the GEBCO Gazetteer in case there’s a modification of the SCUFN Gazetteer information
* Submit the results to the GEBCO Gazetteer after reviewing proposals

1-2. SCUFN Proposal Submission Test

Now, the proposal submission tests are ongoing. KHOA has supported smooth testing by distributing user manuals and feedback questionnaires.

**2. SCUFN Digital Archive / Repository**

As the development of SCUFN Digital Archive completed in 2021, IHO Secretariat tested Archive functions for users and suggested a few improvements last year. (SCUFN36-07.3C Annex A) The followings show improvements made and future plans.

2-1. Presentation of Proposals

* Display a proposed name including capital and small letters, accent and phonetic symbols (by October 2024)
* **Display a hyperlink (completed in April 2024)**
* **Display in alphabetical order (completed in April 2024)**
* Display the review history about a proposed name (discuss with IHO secretary)
* Synchronization of Repository and Archive result tables (discuss with IHO secretary)

2-2. Other suggestions

* Meeting List table (by August 2024)
* **Final Reports (completed in May 2024)**
* **Decision and actions (completed in May 2024)**
* **Basic Document (completed in May 2024)**

**3. GEBCO Gazetteer Interoperability Test**

KHOA has been conducting a synchronization test between SCUFN OWS Gazetteer and GEBCO Gazetteer using GEBCO gazetteer API v5.0 since 2022. Currently, SCUFN OWS has an additional function to synchronize submitted proposal information on the GEBCO Gazetteer. KHOA is collaborating with NOAA to ensure continuous system updates.

3-1. SCUFN Gazetteer -> GEBCO Gazetteer Data Synchronization

* (Submitter authentication stage) Data transmission such as submitters, organizations, etc. (by October 2024)
* **(Proposal submission stage) Data transmission such as detailed data and geometry information in the proposal (completed)**
* **(Proposal modification stage) Data transmission of a modified undersea feature name (completed)**
* (Final review stage) Data Transmission reflecting review results (by October 2024)

3-2. GEBCO Gazetteer -> SCUFN Gazetteer data synchronization

* **Data synchronization of undersea feature names once a week (completed)**
* Data synchronization of submitters, organizations and meetings once a week (by October 2024)

**4. Future Plans**

4-1. System Development and Maintenance

The followings show development and test schedules in 2024 for SCUFN OWS, followed by consistent maintenance for system stability.

1) Proposal submission test

* Test by KCUFN Secretariat
* Test by SCUFN Secretariat
* Tests by SCUFN member states (China, Japan, Malaysia)
* The timeline for testing can be changeable depending on the schedules of IHO Secretariat and members.

2) Function development and test (by October 2024)

* SCUFN Gazetteer function
* Archive function
* Administrator function

3) Test and feedback improvement (by December 2024)

4) Maintenance support (from 2025)

* Create final guidelines for SCUFN OWS
* Maintenance support

4-2. B-6 Revision

B-6 need to be revised for IHO member states to upload their proposals by officially using the system after tests for new functions of SCUFN OWS are completed. And it is necessary that they are required to comply with a B-6 proposal form and submit their proposals only with allowed file formats to improve the accuracy of proposal submission.

**Conclusions**

KHOA will continue to support SCUFN OWS until all functions work in place for successful system operation in order for member states to directly submit their proposals and have them reviewed through the system.

**Recommendations**

The IHO Secretariat and SCUFN members are expected to inform us of problems they may encounter when using the system and suggest ideas for improvements.

**Action required of SCUFN**

*SCUFN is invited to:*

1. Note this paper
2. Provide feedback on the SCUFN integrated Webpage and SCUFN Gazetteer services improvements
3. Provide the Gazetteer DB in order to establish integrated DB