

**Paper for Consideration by SCUFN**  
**Development on connecting SCUFN Operations Web Services with GEBCO Gazetteer**

<b>Submitted by:</b>	KHOA
<b>Executive Summary:</b>	This paper presents the current status and plan for connecting the GEBCO Gazetteer with the Beta-Gazetteer and reports the improvements to SCUFN Operations Web Services run by KHOA.
<b>Related Documents:</b>	Doc. SCUFN32-07.3A, Decisions/Actions SCUFN32/179, 190, 191-193
<b>Related Projects:</b>	SCUFN Operational Web Services, GEBCO Gazetteer & Beta Gazetteer

**Introduction / Background**

1. KHOA started developing SCUFN Services in 2010 and integrated Generic Term and Definition, Undersea Feature Name (UFN) Proposal Submission & Review, and Beta-Gazetteer into SCUFN Operations Web Services in 2017 which are currently in service. Below is the description of each service.

- 1-1. **Generic Term and Definition:** Provides definitions of generic terms and associated images for easy understanding (<https://scufn.ops-webservices.kr/new-generic-term-and-definition>).
- 1-2. **UFN Proposal Submission & Review:** It was developed to resolve the inconvenience in inputting the UFN proposals submitted by email into the system and the difficulty in reviewing numerous proposals within short meeting time. The service is currently available for reviewing proposals in advance by SCUFN members and exchanging opinions (<https://scufn.ops-webservices.kr/submit>, <https://scufn.ops-webservices.kr/my-review/> (log-in required)).
- 1-3. **Beta-Gazetteer:** It is a service for easily identifying any overlapping proposals when submitting or reviewing them and portraying UFNs on maps intuitively which increases the efficiency of review and management of proposals (<https://scufn.ops-webservices.kr/gazetteer>).

2. Based on the Decision SCUFN32/190 this paper presents the plan for connecting the GEBCO Gazetteer with the Beta-Gazetteer and reports the improvements to SCUFN Operations Web Services since SCUFN-32.

**Analysis/Discussion**

3. SCUFN-32 approved the strategy to link the Beta-Gazetteer with the GEBCO Gazetteer and accordingly KHOA discussed with NOAA how to collaborate. As a result it was decided to use the GEBCO Gazetteer API for information sharing and inter-connecting and to transfer approved UFN information in the review system to the GEBCO database. Therefore it is

required to develop a mutual function to enable the transfer of UFN information between the SCUFN Operations Web Services and the GEBCO database. However NOAA recently informed us that the starting date of servicing the GEBCO Gazetteer API V.5 to be the beginning of 2021 thus KHOA is adjusting its future development plan accordingly.

Furthermore since developing a transition plan of the Beta-Gazetteer (Ref. Action SCUFN32/191) is closely related to the ongoing development from NOAA, KHOA will continue to monitor the service date of the GEBCO Gazetteer API V.5 and wishes to continue the cooperation by adjusting the test dates.

4. According to Action SCUFN32/192 it was decided to test the SCUFN Operations Web Services in operational mode by five countries. However it was not possible to do so and collect feedback as the next SCUFN meeting will take place as a VTC due to the impact of COVID-19. When testing is made possible in the future we will collect feedback and improve the Services.

#### 5. SCUFN Operations Web Services

5-1. Development of Proposal Repository: It was developed in 2020 to prevent the loss of proposals uploaded to the IHO legacy website when transferring them to the new IHO website (<https://scufn.ops-webservices.kr/repository>).

5-2. Preventing the submission of overlapping proposals: When submitting proposals, users can input specific terms and generic terms and also geographic information and the range optionally to identify any overlap (Ref. Action SCUFN32/179).

5-3. Introduction of the HTTPS security protocol: We studied whether introducing the HTTPS security protocol to the SCUFN Operations Web Services was possible and applied it (Action SCUFN32/193) (<http://scufn.ops-webservices.kr> → <https://scufn.ops-webservices.kr>).

5-4. Completed saving proposals between 2005 and 2020: In order to solve the issue of having no information in the Beta-Gazetteer, we saved proposal information in the database followed by the work on 2019 and we currently manage information of around 1,413 proposals in the system.

#### **Conclusions**

6. KHOA is pleased that the SCUFN Operations Web Services are progressing with close collaboration with SCUFN members and that they are increasing the convenience of the work of SCUFN. KHOA will continue to improve the functions of the Services. Also KHOA will closely work with NOAA to improve the connection between the Beta-Gazetteer and the GEBCO Gazetteer.

## **Recommendations**

7. Discussion is required on how to manage past paper-back proposals, other than the ones that are uploaded to the IHO legacy website.
8. The Secretariat and SCUFN members are invited to continue to provide feedback, difficulties or improvements to the Services.

## **Action required of SCUFN**

SCUFN is invited to:

- a) Note this paper
- b) Discuss how to manage past paper-back proposals
- c) Provide feedback on the SCUFN Operations Web Services and Beta-Gazetteer improvements
- d) Provide feedback on the design plan for SCUFN Digital Archive in Annex A

## The development plan for SCUFN Digital Archive

### 1. Menu and Screen design

- Using the menu on the SCUFN OWS, we added “Documents” in the form of an archive, under the each meeting page of the “Repository” menu
- It was designed in a way that keeps the HTML page structure of the IHO legacy website but has a tree viewer structure for ease of search
- What’s more, since the Repository doesn’t include information of the relevant year, we’re planning to add a new “Meeting” menu to supplement this, and the page will look similar to the “Repository” except proposal information
- SCUFN Secretary will be able to add, change and delete documents in the Archive through an admin menu

IHO-IOC GEBCO Sub-Committee on Undersea Feature Names (SCUFN) LIST OF DOCUMENTS		
<b>32nd SCUFN Meeting</b> 5 - 9 August 2019 (Kuala Lumpur, Malaysia)		
<i>Last update: 13 Dec 2019</i>		
Post Meeting Documents: [SCUFN-32 <a href="#">Summary Report</a> , version 11 Nov. 2019] [Decisions and Actions <i>as of 13 Dec. 2019</i> : <a href="#">.doc</a> , <a href="#">.pdf</a> ] [ <a href="#">Bulletin Report</a> ] [ <a href="#">Group Photo</a> ]		
Document No	Posted Date	Document Title
	--	<a href="#">Report of SCUFN-31</a>
	14 Jan 2019	<a href="#">Logistics Information and On-line Registration</a>
	13 Feb 2019	<a href="#">SCUFN Letter 01/2019 - Invitation to SCUFN-32</a>
		GEBCO Gazetteer
SCUFN32-01A	--	List of Meeting Documents (this html page)
SCUFN32-01B	14 Aug	<a href="#">List of Participants</a>
SCUFN32-01C	7 July	<a href="#">Members and Observers of SCUFN</a> Useful References:

Figure 1. The screen on IHO legacy website's construction

SCUFN		INTRODUCTION	GENERIC TERM AND DEFINITION	SUBMISSION	REPOSITORY	BETA-GAZETTEER	REVIEW	LOGOUT
<b>[2019] SCUFN-32 Meeting</b>		HOME / Proposal Repository						
<b>LIST OF PROPOSALS</b>								
<div style="border: 1px solid red; padding: 5px; margin-bottom: 10px;"> <span>SCUFN-32 Documents</span> <span style="float: right;">▼</span> </div> <div style="border: 1px solid #ccc; padding: 5px;"> <span>[ARG] Argentina - (2)</span> <span style="float: right;">▼</span> </div>								

Figure 2. The example of the initial screen page on Repository(SCUFN Digital Archive)

SCUFN INTRODUCTION   GENERIC TERM AND DEFINITION   SUBMISSION   REPOSITORY   BETA-GAZETTEER   REVIEW   LOGOUT

## [2019] SCUFN-32 Meeting HOME / Proposal Repository

### LIST OF PROPOSALS

**SCUFN-32 Documents** ▼

Document No	Document Title
<input type="checkbox"/>	Report of SCUFN-32
<input type="checkbox"/>	SCUFN Letter 01/2020 - Invitation to SCUFN-33
<input type="checkbox"/>	SCUFN32-01A
SCUFN32-01A <input type="checkbox"/>	List of Meeting Documents (this html page)
SCUFN32-01B <input type="checkbox"/>	List of Participants
SCUFN32-01C <input type="checkbox"/>	Members and Observers of SCUFN
SCUFN32-01D <input type="checkbox"/>	Terms of Reference and Rules of Procedure for SCUFN

**[ARG] Argentina - (2)** ▼

**[BRA] Brazil - (15)** ▼

**[CHN] China - (35)** ▼

SCUFN INTRODUCTION   GENERIC TERM AND DEFINITION   SUBMISSION   REPOSITORY   BETA-GAZETTEER   REVIEW   LOGOUT

## [2020] SCUFN-33 Meeting HOME / Proposal Repository

### LIST OF PROPOSALS

**SCUFN-33 Documents** ▲

Document No	Document Title
<input type="checkbox"/>	Report of SCUFN-33
<input type="checkbox"/>	SCUFN Letter 01/2020 - Invitation to SCUFN-33
<input type="checkbox"/>	SCUFN33-01A
SCUFN33-01A <input type="checkbox"/>	List of Meeting Documents (this html page)
SCUFN33-01B <input type="checkbox"/>	List of Participants
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SCUFN33-01D <input type="checkbox"/>	Terms of Reference and Rules of Procedure for SCUFN

**Figure 3. The example of the active screen on Repository Tree(SCUFN Digital Archive)**