

Item-7.3 Interoperability and Prototyping

# New Integrated websites and DB prototyping for UFN

5<sup>th</sup> October 2017

Peter YOU

**KHOA / KIGAM**

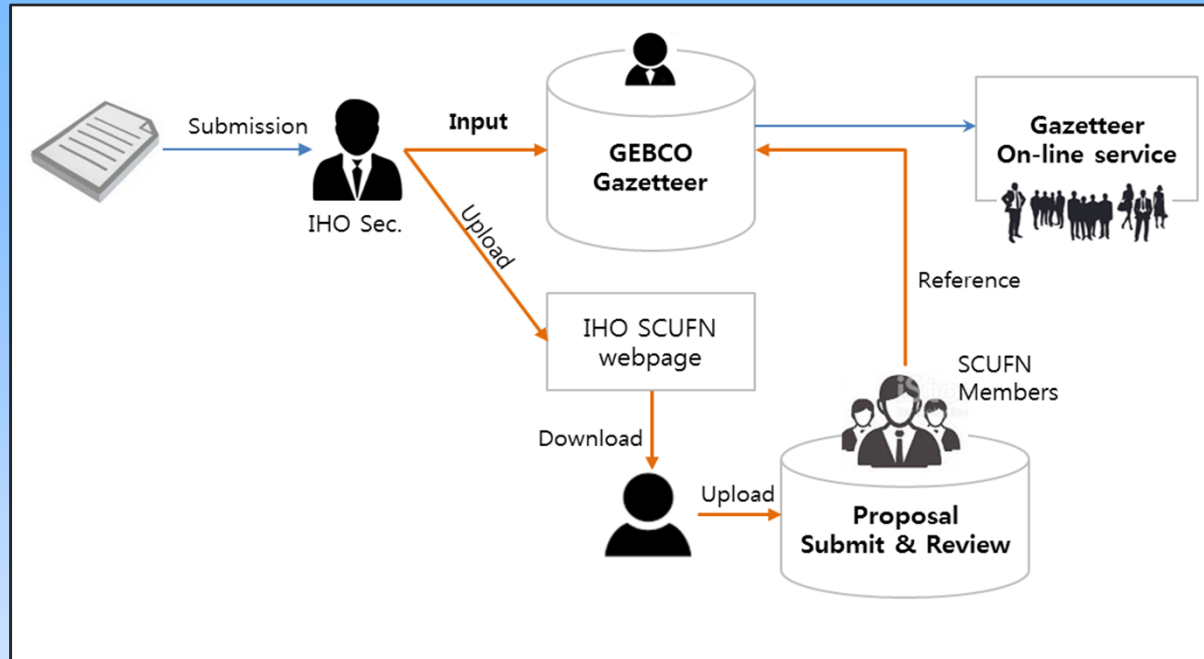
# Intro



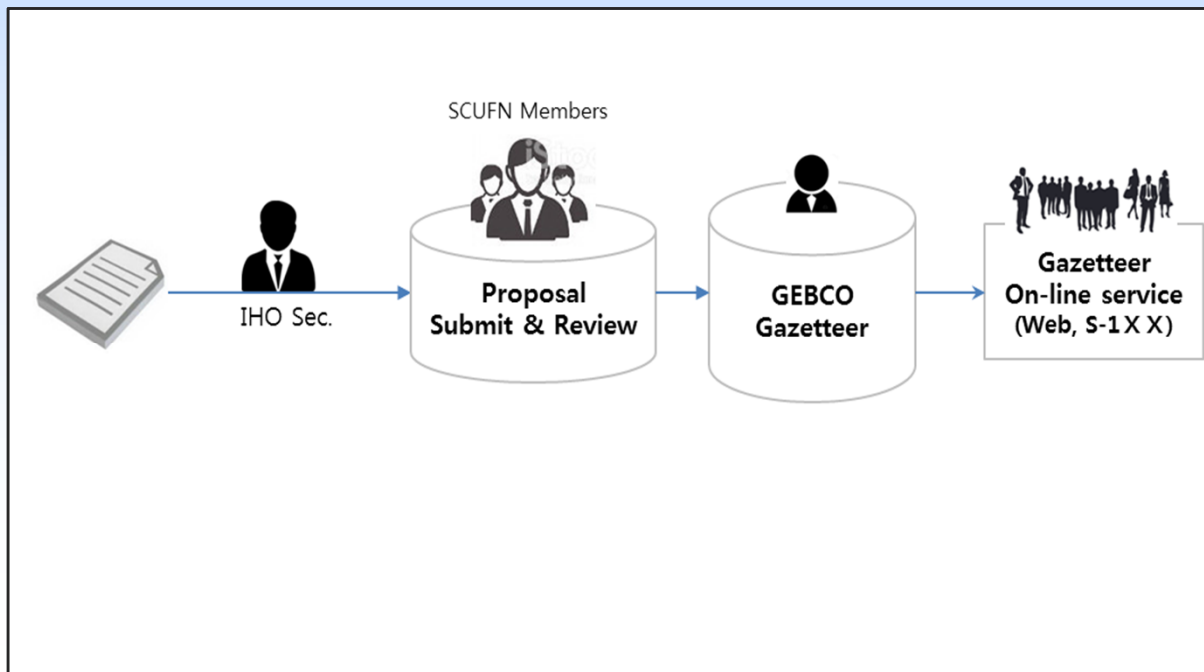
## **According to SCUFN 29/150,**

In SCUFN-30 meeting, KHOA/KIGAM will submit the progress report regarding the development of a new UFN database and associated web-services under the management of the S-100 UFN Project Team

Now



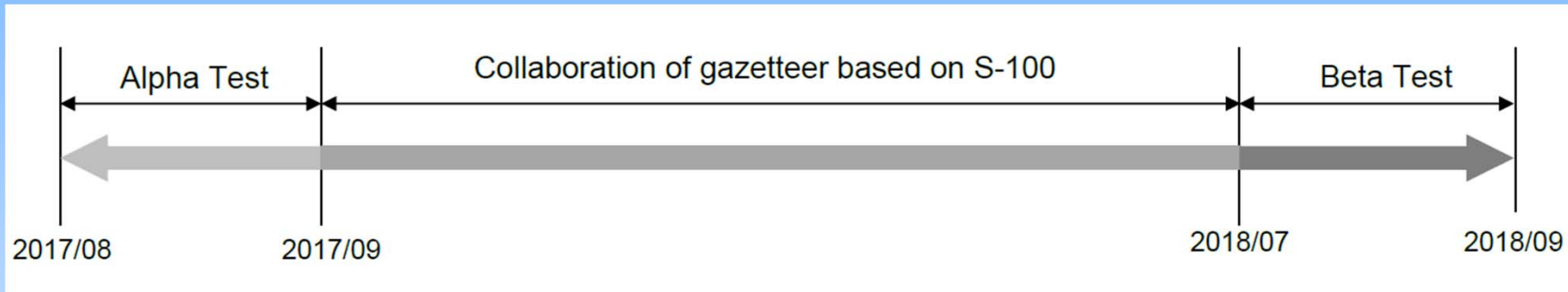
After



# Contents

- ✓ Time table
- ✓ Integrated website
- ✓ DB link & New Gazetteer
- ✓ Future plans

# 1. Time table



## ➤ 2017

- Alpha test for a new integrated website
- Set up DB Schema for UFN data model and implementation
- Submit plans for S-1XX UFN Product Specification to HSSC-9

## ➤ 2018

- Encoding and portrayal for UFN product specification
- Submit S-1XX identifier for UFN Product Specification to HSSC-10
- Beta test for upgraded SCUFN system & Gazetteer

## ➤ 2019: Final test for all modules

## 2. Integrated Webpage

➤ Integrated as a single website

Submission + Review + Terminology + Gazetteer

The image displays three overlapping browser windows from the website www.scouthreview.org. The central window is titled 'UNDERSEA FEATURE NAME PROPOSAL REVIEW' and shows a search interface with filters for Year, Country, and Result, and a table of 16 proposals. The left window shows 'Undersea Feature Generic Terms and Definitions' with a list of terms and a definition for 'Abyssal Plain'. The right window shows a 'PROPOSAL FORM' with a 'SUBMIT' button.

| NUM | CNTY | PROPOSED NAME                              | FILES | DATE       | RESULT |
|-----|------|--|-------|------------|--------|
| 1   | NZL  | TUAKANA KNOLL <small>NEW</small>           |       | 2014-02-01 | DEFER  |
| 2   | NZL  | ALICOLAND ISLANDS SHELE <small>NEW</small> |       | 2014-02-01 | DEFER  |
| 3   | NZL  | COOK CHANNEL <small>NEW</small>            |       | 2014-02-01 | DEFER  |
| 4   | NZL  | BOLLONS GAP <small>NEW</small>             |       | 2014-02-01 | DEFER  |
| 5   | NZL  | TAIERI CANYON <small>NEW</small>           |       | 2014-02-01 | DEFER  |
| 6   | NZL  | SAUNDERS CANYON <small>NEW</small>         |       | 2014-02-01 | DEFER  |
| 7   | NZL  | COURREILLES SLOPE <small>NEW</small>       |       | 2014-02-01 | DEFER  |
| 8   | NZL  | FOULWING CANYON <small>NEW</small>         |       | 2014-02-01 | DEFER  |
| 9   | NZL  | HAURAKI CANYON <small>NEW</small>          |       | 2014-02-01 | DEFER  |
| 10  | NZL  | KAIPARA CANYON <small>NEW</small>          |       | 2014-02-01 | DEFER  |
| 11  | NZL  | KAIPARA CHANNEL <small>NEW</small>         |       | 2014-02-01 | DEFER  |
| 12  | NZL  | KARUKAIRO KNOLL <small>NEW</small>         |       | 2014-02-01 | DEFER  |
| 13  | NZL  | MCDUGALL TROUGH <small>NEW</small>         |       | 2014-02-01 | DEFER  |
| 14  | NZL  | MOERAKI CANYON <small>NEW</small>          |       | 2014-02-01 | DEFER  |
| 15  | NZL  | PAPAMOA KNOLL <small>NEW</small>           |       | 2014-02-01 | DEFER  |
| 16  | NZL  | PURERUA SEAMOUNT <small>NEW</small>        |       | 2014-02-01 | DEFER  |



TERM & DEFINITION

Definition of general terms and representative images



PROPOSAL SUBMISSION

Create Proposal Forms with ease, Submit Your Proposals Online



SEARCH & DOWNLOAD

Easy search for Undersea Feature Names



GAZETTEER

Search for registered Under sea feature name

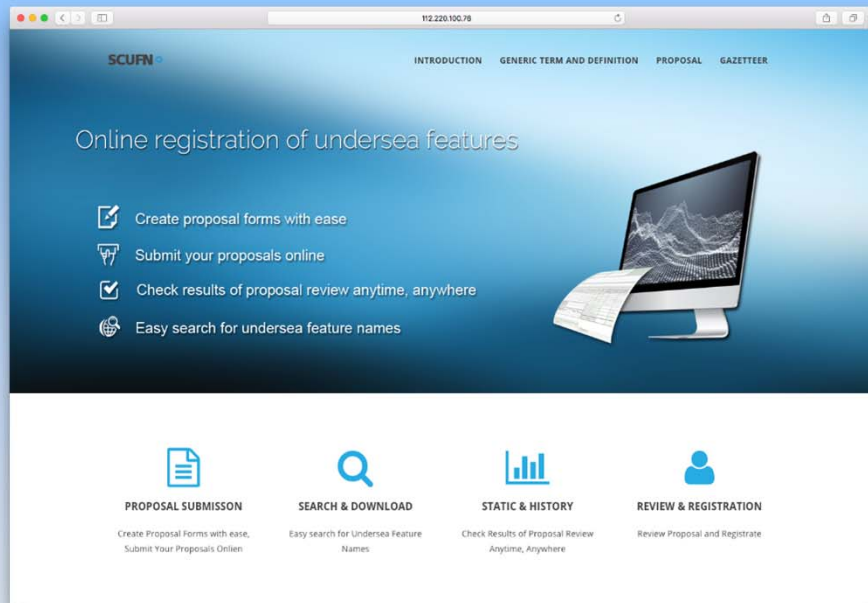
# Cross browsers

Web Standard

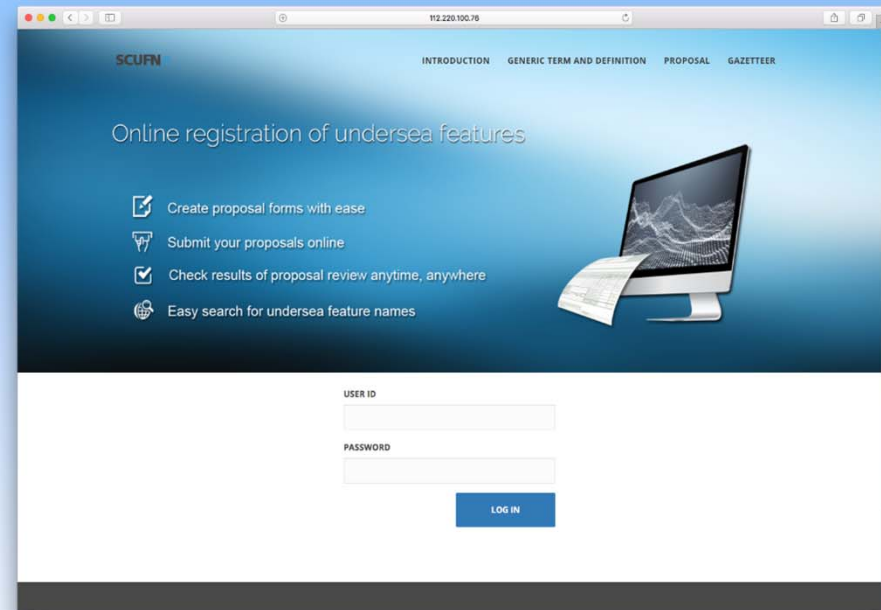


# Two gates

for public users



for SCUFN members

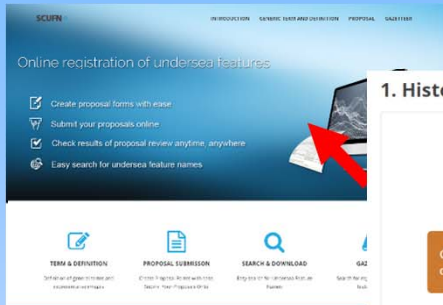


➤ Public: <http://112.220.100.76:8080/wordpress>

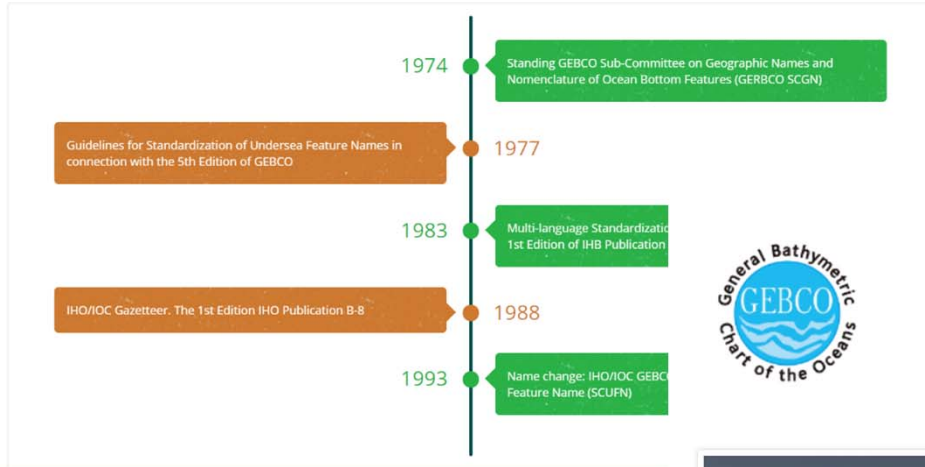
➤ SCUFN: [http://112.220.100.76:8080/wordpress/?page\\_id=3808](http://112.220.100.76:8080/wordpress/?page_id=3808)



# ✓ Introduction



## 1. History



## 2. Objectives

The objectives of the Sub-Committee are to :

- select undersea feature names define when appropriate the extent of named features;
- provide advice to individuals and appropriate authorities on the selection of undersea feature names in International waters and, on request, in waters under national jurisdiction
- encourage the establishment of national boards of geographical names and undersea features, and when such a board does not exist for a given coastal state, cooperate in the naming of seafloor features related to those national waters;
- prepare and maintain international gazetteers and supplements of undersea feature names;
- encourage the use of undersea feature names shown on GEBCO products, on other maps, charts, scientific publications, and documents by promulgating them widely;
- prepare and maintain internationally agreed guidelines for the standardization of undersea feature names and encourage their use;
- review and address the need for revised or additional terms and definitions for submarine topographic features.
- maintain close liaison with the UN Group of Experts on Geographical Names and international or national authorities concerned with the naming of undersea features.



👉 *hope to add more contents.*

# ✓ Terms and Definitions

Undersea Feature Generic Terms and Definitions

NOTE: 1) Terms written in capitals in the definitions are themselves defined elsewhere in the list.  
 2) 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).  
 3) Generic terms for features that have a generic implication are marked with an asterisk (\*).

**Generic terms and definitions**

- Abyssal Plain
- Apron
- Bank
- Basin
- Caldera\*
- Canyon
- Deep
- Escarpment
- Fan
- Fracture zone\*
- Gap
- Guyot
- Hill
- Hole
- Knoll
- Levee
- Moat
- Mound\*
- Mud Volcano\*
- Peak
- Pinnacle
- Plateau
- Province
- Reef\*
- Ridge
- Rift\*
- Rise
- Saddle
- Salt Dome\*
- Sand Ridge\*
- Sea Channel
- Seamount
- Seamount Chain
- Shelf
- Shoal\*
- Sill
- Slope
- Spur
- Terrace
- Trench\*
- Trough
- Valley

**Generic terms used for harmonization with other gazetteers**

- Abyssal Hill
- Archipelagic Apron
- Borderland
- Cap
- Channel
- Cone
- Continental Margin
- Continental Rise
- Continental Shelf
- Continental Slope
- Discordance
- Fracture Zone System\*
- Ground
- Median Valley
- Mid-Ocean Ridge
- Pass
- Passage
- Promontory
- Scarp
- Sea Valley
- Seabight
- Seachannel
- Seamount Group
- Shelf Break
- Shelf-Edge
- Submarine Valley
- Tablemount

**Generic Term : Guyot**

**Definition** A SEAMOUNT with a comparatively smooth flat top.

**Images ( Total 2 )**

SCUFN

INTRODUCTION **GENERIC TERM AND DEFINITION** PROPOSAL GAZETTEER

Generic Term and Definition

HOME / GENERIC TERM AND DEFINITION

**Generic terms and definitions**

|               |          |                |              |                |
|---------------|----------|----------------|--------------|----------------|
| Abyssal Plain | Apron    | Bank           | Basin        | Caldera*       |
| Canyon        | Deep     | Escarpment     | Fan          | Fracture zone* |
| Gap           | Guyot    | Hill           | Hole         | Knoll          |
| Levee         | Moat     | Mound*         | Mud Volcano* | Peak           |
| Pinnacle      | Plateau  | Province       | Reef*        | Ridge          |
| Rift*         | Rise     | Saddle         | Salt Dome*   | Sand Ridge*    |
| Sea Channel   | Seamount | Seamount Chain | Shelf        | Shoal*         |
| Sill          | Slope    | Spur           | Terrace      | Trench*        |
| Trough        | Valley   |                |              |                |

**Generic terms used for harmonization with other gazetteers**

- 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 generic implication are marked with an asterisk (\*).

**Guyot**

**Definition**

A SEAMOUNT with a comparatively smooth flat top.

**Images**

# ✓ On-line Proposal Submission

## ➤ Submission

**Step 1** Basic Information

Korea, Republic of (KOR) ▼

han@kigam.re.kr

●●●●

●●●●

test SEAMOUNT ▼ **CHECK** ✓

Southern Ocean

KHOA

**Step 2** Select Proposal type, and enter the information regarding your selection.

**Select Proposal Type**

File upload  Fast Track  Web Form

**Select PDF or DOC File**

test hill.pdf **CHOOSE FILE**

**Select Shape Files**

**CHOOSE FILE**

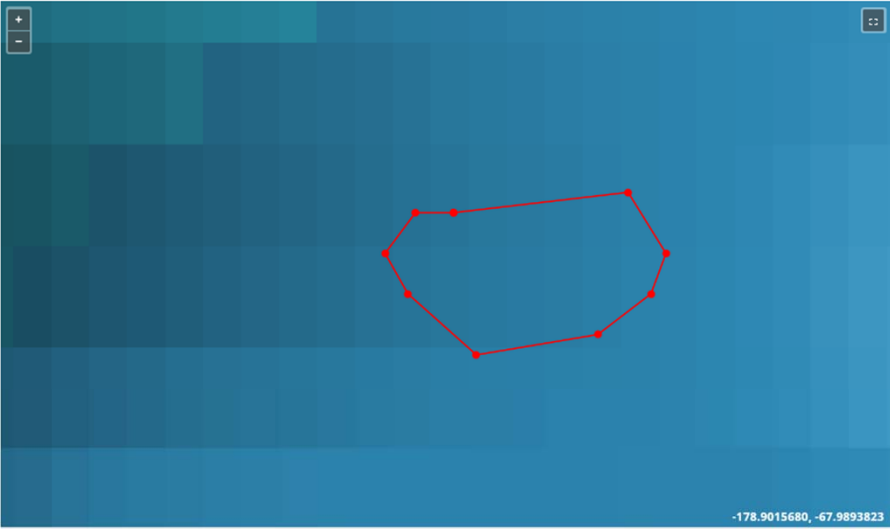
**PREVIOUS** **SUBMIT**

Upload : DOC\* , PDF  
& Shp. file

# ✓ Proposal Submission

➤ Submit - Result

MODIFY DELETE CONFIRM



-178.9015680, -67.9893823

Show 10 entries

Search:

| IDX | LONG        | LAT        |
|-----|-------------|------------|
| 1   | -178.803333 | -67.988333 |
| 2   | -178.765000 | -67.986667 |
| 3   | -178.756667 | -67.991667 |
| 4   | -178.760000 | -67.995000 |
| 5   | -178.771667 | -67.998333 |
| 6   | -178.798333 | -68.000000 |
| 7   | -178.813333 | -67.995000 |
| 8   | -178.818333 | -67.991667 |
| 9   | -178.811667 | -67.988333 |
| 10  | -178.803333 | -67.988333 |

# ✓ Proposal Search

## Proposal Search

SCUFN ◦ INTRODUCTION GENERIC TERM AND DEFINITION **PROPOSAL** GAZETTEER REVIEW LOGOUT

YEAR  
ALL SELECT

COUNTRY  
ALL SELECT

RESULT  
ALL SELECT

PROPOSED NAME  
test

CLEAR SEARCH

-63.914069 ( 63° 54' 51" W ) , 77.141525 ( 77° 08' 29" N )

YEAR  
ALL SELECT

COUNTRY  
ALL SELECT

RESULT  
ALL SELECT

PROPOSED NAME  
Proposed name

CLEAR SEARCH

## Proposal List

Show 10 entries

Search:

| INDEX | COUNTRY | PROPOSED NAME | FILE TYPE | DATE                | RESULT |
|-------|---------|---------------|-----------|---------------------|--------|
| 523   | KOR     | TEST HILL     | PDF       | 2017-09-26 08:05:28 | DEFER  |

Showing 1 to 1 of 1 entries

# ✓ Proposal Review-1

SCUFN INTRODUCTION   GENERIC TERM AND DEFINITION   PROPOSAL   GAZETTEER   REVIEW   LOGOUT

Select the time period.  
From  To

|          |        |      |            |
|----------|--------|------|------------|
| PROPOSAL | UNREAD | READ | FAST TRACK |
| 159      | 109    | 0    | 50         |

Review Status

Legend: ACCEPT (blue), NOT ACCEPT (orange), PENDING (yellow), DEFER (green), ADOPTED (purple)

## Submitted Proposal List

[2017] DEFER

Show  entries

Search:

| INDEX | COUNTRY | PROPOSED NAME        | FILE TYPE | DATE                | RESULT |
|-------|---------|----------------------|-----------|---------------------|--------|
| 1     | USA     | INOIYE SEAMOUNT      | PDF       | 2017-09-07 16:31:51 | DEFER  |
| 2     | PLW     | BABELDAOB RIDGE      | PDF       | 2017-09-07 16:34:51 | DEFER  |
| 3     | PLW     | EAST BABELDAOB RIDGE | PDF       | 2017-09-07 16:35:49 | DEFER  |
| 4     | PLW     | NGEDEBUUL SEAMOUNT   | PDF       | 2017-09-07 16:37:53 | DEFER  |
| 5     | PLW     | RTELUUL SEAMOUNT     | PDF       | 2017-09-07 16:44:25 | DEFER  |
| 6     | PLW     | ONGEDEHUUL SEAMOUNT  | PDF       | 2017-09-07 16:45:41 | DEFER  |
| 7     | PLW     | IMEUNGS SEAMOUNT     | PDF       | 2017-09-07 16:46:44 | DEFER  |
| 8     | PLW     | NGERBUNS SEAMOUNT    | PDF       | 2017-09-07 16:47:42 | DEFER  |
| 9     | PLW     | BELIAS SEAMOUNT      | PDF       | 2017-09-07 16:48:22 | DEFER  |
| 10    | PLW     | NGERDUBECH SEAMOUNT  | PDF       | 2017-09-07 16:49:29 | DEFER  |

Showing 1 to 10 of 158 entries

SCUFN INTRODUCTION   GENERIC TERM AND DEFINITION   PROPOSAL   GAZETTEER   REVIEW   LOGOUT

Select the time period.  
From  To

|          |        |      |            |
|----------|--------|------|------------|
| PROPOSAL | UNREAD | READ | FAST TRACK |
| 159      | 109    | 0    | 50         |

Annual review status within the given period

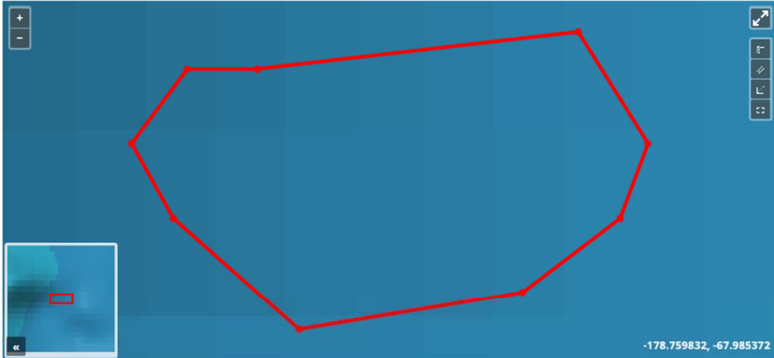
Legend: ACCEPT (blue), NOT ACCEPT (orange), PENDING (yellow), DEFER (green), ADOPTED (purple)

# ✓ Proposal Review-2

## PROPOSAL REVIEW

[ 2017 - KOR ] TEST HILL update : 2017-09-19

Proposal **Geometry** Comment Final decision



Search:

| IDX | LONG        | LAT        |
|-----|-------------|------------|
| 1   | -178.803333 | -67.988333 |
| 2   | -178.765000 | -67.986667 |
| 3   | -178.756667 | -67.991667 |
| 4   | -178.760000 | -67.995000 |
| 5   | -178.771667 | -67.993333 |
| 6   | -178.798333 | -68.000000 |
| 7   | -178.813333 | -67.995000 |
| 8   | -178.818333 | -67.991667 |
| 9   | -178.811667 | -67.988333 |
| 10  | -178.803333 | -67.988333 |


Showing 1 to 10 of 10 entries PREVIOUS 1 NEXT

Inspection module  
- edit geometry data

## PROPOSAL REVIEW

[ 2017 - KOR ] TEST HILL update : 2017-09-19

Proposal Geometry **Comment** Final decision



Generic Term  PASS  FAIL  MINOR CORRECTION

Specific Term  PASS  FAIL  MINOR CORRECTION

Proposal Form  PASS  FAIL  MINOR CORRECTION

Data Coverage  PASS  FAIL  MINOR CORRECTION

[DELETE](#) [MODIFY](#)

# ✓ Proposal Review-3

## PROPOSAL REVIEW

[ 2017 - KOR ] TEST HILL

update : 2017-09-26

Proposal

Geometry

Comment

Final decision

Warning! Only the secretariat can edit this page..



Accepted



Not Accepted



Defer



Pending



Adopted

Accepted proposal name TEST HILL

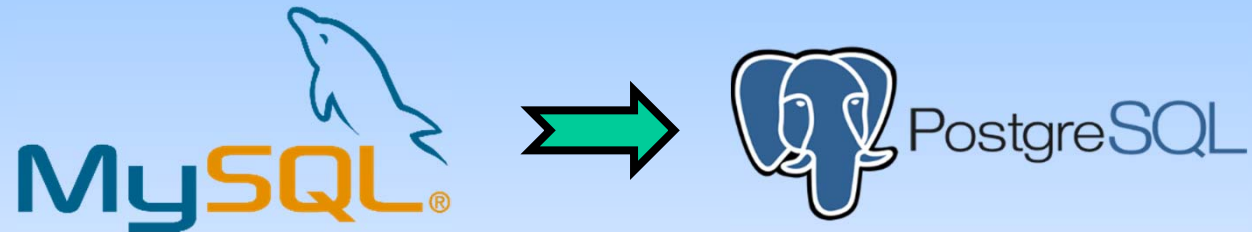
This is a test file

SAVE TO THE GAZETTEER



## 3. DB link & Beta-Gazetteer

### Database migration



#### Submit

Add the file upload form for **fast track**,

Add the proposal input form of wizard type (PDF creator),

Improve PDF parser (extract images from PDF and save it to database),

Implementation of the input form for geometric data

👉 **Support Fast and Stable DB System**

# ✓ Link proposal review site with Beta-Gazetteer

SCUFN

INTRODUCTION GENERIC TERM AND DEFINITION PROPOSAL GAZETTEER REVIEW LOGOUT

USER ID : SUPERUSER, USER GRADE : SUPERUSER

REVIEW / SUBMITTED PROPOSAL LIST / PROPOSAL REVIEW

## PROPOSAL REVIEW

[ 2017 - KOR ] TEST APRON update : 2017-09-29

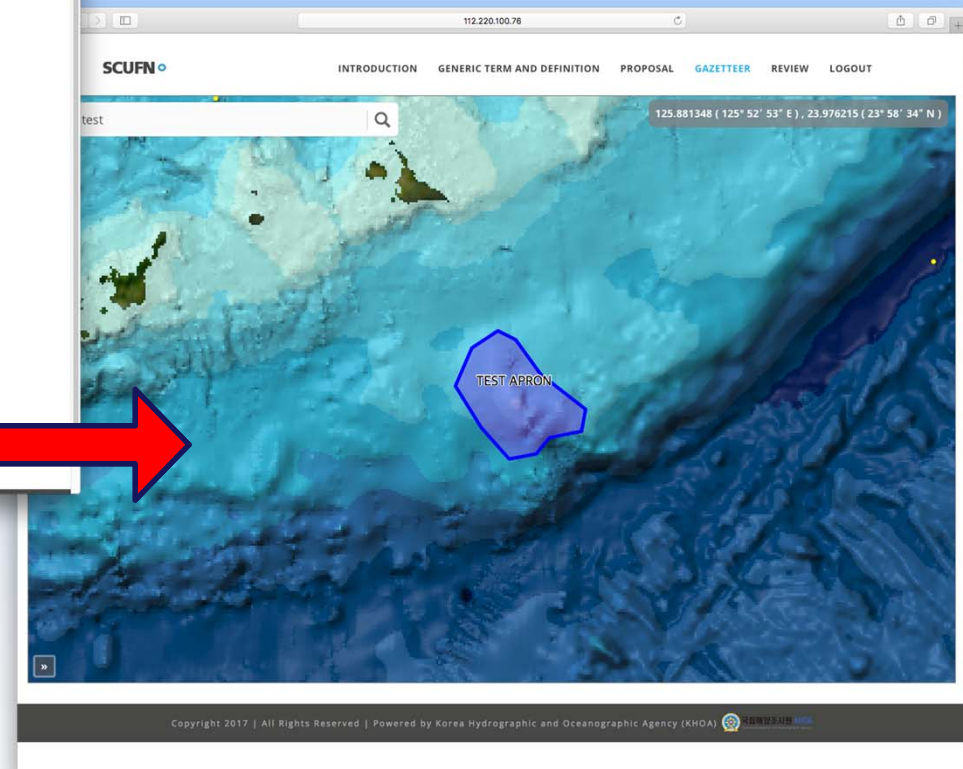
Proposal Geometry Comment **Final decision**

Warning! Only the secretariat can edit this page..

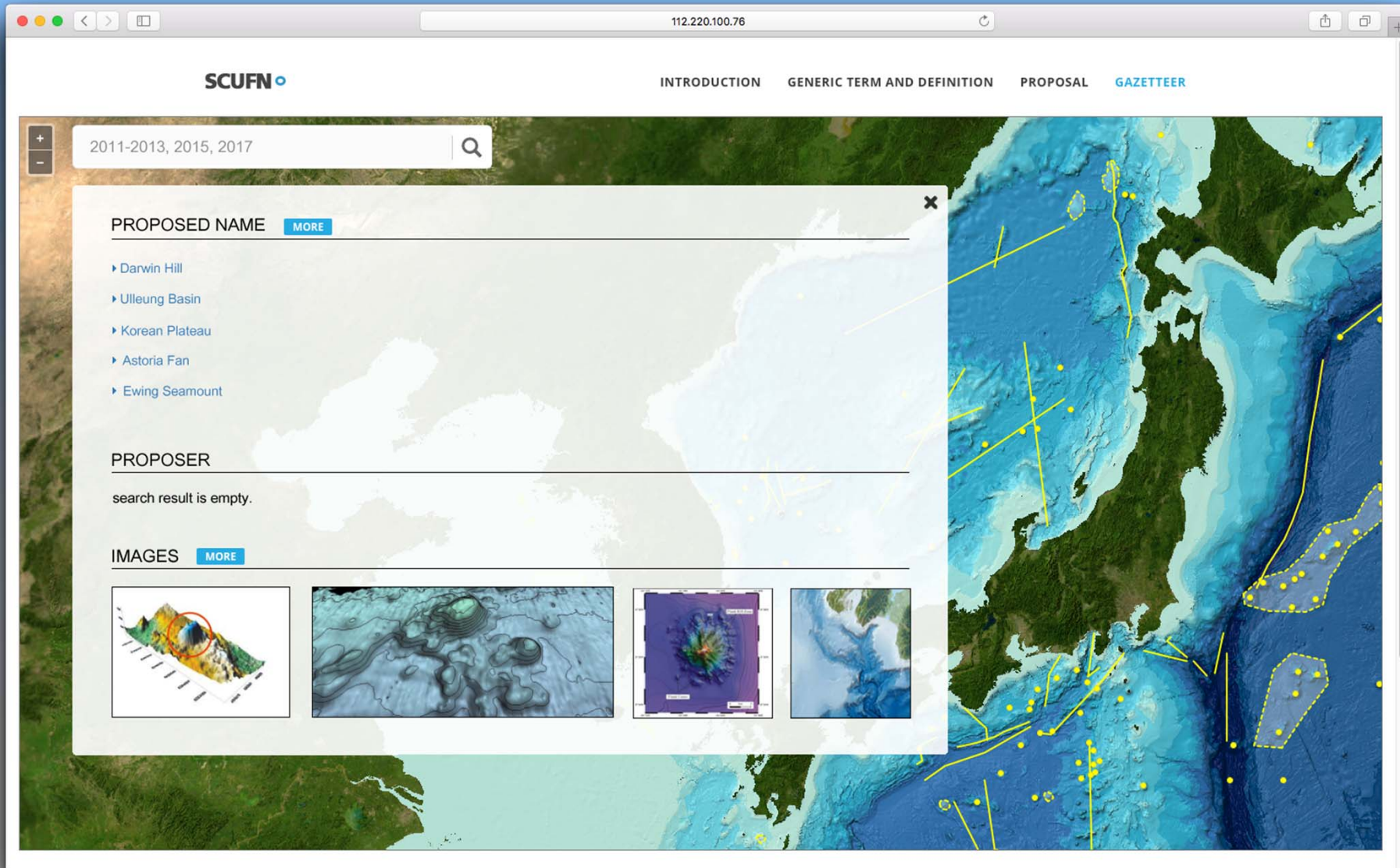
Accepted  Not Accepted  Defer  Pending  Adopted

Accepted proposal name TEST APRON

**SAVE TO THE GAZETTEER**



# ✓ Beta-Gazetteer - AIO search bar & Dash board



# ✓ Beta-Gazetteer - Fancy design with more functions

The screenshot displays the SCUFN Beta-Gazetteer interface. At the top, there is a navigation menu with 'INTRODUCTION', 'GENERIC TERM AND DEFINITION', 'PROPOSAL', and 'GAZETTEER'. A search bar is located in the top left. The main map shows a world view with yellow dots indicating gazetteer locations. A coordinate box at the top right shows  $-3.867187$  (3° 52' 02" W),  $59.445075$  (59° 26' 42" N).

The 'INFORMATION' panel is open, showing details for a proposed name:

- PROPOSED NAME:** TEST HILL
- PROPOSER INFORMATION:** KIGAM
- COORDINATES:** Type: Polygon; No. 1: -178.803333, -67.988333; No. 2: -178.765000, -67.986667; No. 3: -178.756667, -67.991667; No. 4: -178.760000, -67.995000
- SUBMIT DATE:** 2017
- MEETING:** SCUFN-30
- OCEAN:** SOUTHERN OCEAN
- FEATURE DESCRIPTION:** Maximum Depth: 3,100 m; Minimum Depth: 15 - 25°; Total Relief: ~ 200 m; Steepness: 2,900 m; Shape: conical; Dimension: 3,200 x 1,800 m
- REASON:** Ssangchotdae is the Korean word for "candlesticks". The shape of the hills is s of "Ssangchotdae".
- DISCOVERER:** Icebreaker-RV ARAON
- DISCOVER DATE:** 2011-01-31

Two 'IMAGES' galleries are visible. The top gallery shows three bathymetric cross-sections. The bottom gallery shows two bathymetric cross-sections and a photograph of two golden candlesticks.

## Requirements

- Please follow the proposal form “B-6”
  - Computer does not act like a human for the time being (?), it just follows what human says
  - In other words, computer does not interpret your intention
  - If you submit proposals based on your own creative talent, we spend a **lot of time to fix them**
  - It means that the new integrated system is useless !!!!!
- More participation creates a better system.

## 4. Future plans

- ✓ Continue to upgrade SCUFN web system.
- ✓ Encoding and portrayal for UFN product specification with S-100 UFN Project Team & S-100WG.
- ✓ S-100 based Beta-Gazetteer will be completed by 2019.

Thank you

