

Paper for Consideration by SCUFN

“Cookbook - Repository of Typical Cases” (version 1.2, October 2022)

Submitted by: SCUFN Members (Roberta Ivaldi, Kevin Mackay) and SCUFN Chair (Hyun-Chul Han), supported by SCUFN Secretary (Yves Guillam)

Executive Summary: The Cookbook is intended to supplement the SCUFN B-6 publication “Standardization of Undersea Feature Names” and the Generic Terms website: <http://scufnterm.org>. The Repository of Typical Cases is a useful proposals collection in terms of examples to consider in the submission proposal process. It contains Typical Cases for assigning the Generic Terms, Specific Terms, considering the difficulties to compile the undersea feature name proposal in order to follow a green line review. Furthermore this document sustains and increases the standardization of undersea feature names to improve the ocean knowledge and an accessible ocean.

Related Documents: SCUFN35.1/07 Decisions and Actions.

Introduction / Background

The names of undersea features beyond territorial waters (12 nautical miles) are approved annually by the Sub-Committee on Undersea Features Names (SCUFN).

The Cook Book is intended to supplement the SCUFN B-6 publication “Standardization of Undersea Feature Names” and the Generic Terms website: <http://scufnterm.org>.

Recently the developing of new technologies and systems exploring and mapping the ocean floor with the detection of the undersea features to a very high resolution and topographic detail in a shorter time than in the past. It has been increased the collection of data and consequently the detection of new undersea features thanks to a particular interest to know the ocean floor in terms of sustainable development in the UN Decade of Ocean Science and the developing of the SEABED 2030 Project and the GEBCO (General Bathymetric Chart of the Oceans), a joint project of the International Hydrographic Organization (IHO) and the Intergovernmental Oceanographic Commission (IOC). In particular these data have been collected in order to know the ocean seabed, to update and improve the global gridded bathymetry data set and the GEBCO Gazetteer of undersea features names. The Cook Book - Repository of Typical Cases was born to help at different level and role, considering all needs to this developing of available seafloor data obtained by bathymetric surveys and the growth of the GEBCO undersea feature name proposals.

During SCUFN29 (SCUFN29/13) SCUFN Chair/Vice-Chair/Secretary highlight to consider how SCUFN can record rationales supporting decisions made for addressing difficult cases in sessions suggesting solutions such as a Cook-book?, live appendix to SCUFN ToRs? Repository of best practices? So lessons learned can be re-used in consistent manner in the future. It was defined as a long-term action developing during time with discussion that occurred in the next SCUFN meetings (SCUFN30-SCUFN35). As a first step, SCUFN Chair, Prof Ivaldi (current SCUFN member) and Dr Han (former SCUFN member and current SCUFN Chair) accepted to manage the responsibility for proposing and preparing the establishment of a repository of typical cases. Than Vaughan Stagpoole (former SCUFN member) and Kevin Mackay (current SCUFN member) developed the Annex of the Cook Book (Cook Book for Generic Terms of Undersea Feature Names). The last action (SCUFN35.1-03.2A) was the update on the Status of the Cook Book – Repository of Typical Cases and its Annex –“Cookbook for Generic Terms of Undersea Feature Names” (Lead: Ivaldi, Mackay) and then its first draft, Cookbook – Repository of Typical Cases Version 1.2.

Analysis/Discussion

The Cookbook - Repository of Typical Cases and its annex is a useful proposals collection in terms of examples to consider in the submission proposal process. The Cook Book – Repository of Typical Cases is an additional section of B-6 Standardization of Undersea Feature Names and contains examples of typical cases of undersea feature names extracted from the past undersea feature proposals in order to show an example of each case of undersea feature names. The Cook Book is a "living document" that will be

continually updated and expanded as new typical cases are highlighted by SCUFN and as the sense of best practices evolves.

It contains Typical Cases for assigning the Generic Terms, Specific Terms, considering the difficulties to compile the undersea feature name proposal in order to follow a green line review. The Annex provides guidelines on Generic Terms for undersea feature name proposals and is intended to assist proposers with the selecting the most appropriate Generic Terms.

The Cook Book - Repository of Typical Cases Version 1.2 contains 37 examples of undersea feature name typical cases and an Annex, the “Cook Book for Generic Terms of undersea feature names” V 1.1.

A typical case form defines each case with four main information: Title, Criteria, Decision Made and Example with reference to the SCUFN Decision/Action. In particular, the typical cases of the generic terms are characterised by some additional information such as proposal bathymetric data (2D model, 3D model or profiles), information from GEBCO Gazetteer, detailed concepts of SCUFN discussion. The Cook book contains also examples of sensitive or double meaning or potential confusion specific terms, undersea feature names with conflict of naming, undersea feature already named in the GEBCO Gazetteer or in scientific publications or papers. Its Annex describes basic concepts for assigning Generic Terms with respect to dimensions, morphology and water depth, and provides useful suggestions for distinguishing the characteristics of undersea features that can be quite subtle. It also gives detailed information for each Generic Term in the B-6 Publication.

Recommendations

SCUFN maintains this “living document” to improve and update the typical cases list to facilitate the compilation the undersea feature name proposal in order to follow a green line review and consequently growing the GEBCO Gazetteer and ocean knowledge.

Justification and Impacts

This Cook Book is a document of “lesson learned” as supplement of SCUFN B-6 Publication “Standardization of Undersea Feature Names” to facilitate and improve the proposal of undersea feature names. The main impacts are a diffuse standardization of undersea feature names in various scenarios and applications (i.e. Hydrography, Geoscience, Marine research, Education, Socio-Economy, Innovation technologies,...), the improvement of the GEBCO Gazetteer and the ocean knowledge in the UN Ocean decade for Sustainable Development vision “The Science we Need for the Ocean we want”.

Actions required of SCUFN

SCUFN put a particular attention to the proposals and transfer suggestions and new typical cases to the manager of Cook Book – Repository of Typical cases.

SCUFN Generic Term working group share the output and maintains a link to the manager of Cook Book in order to updating action of the Cook Book – Repository of Typical cases and its Annex (Cook Book - Generic Terms of undersea feature names).

Annex

Decision making process in SCUFN – Repository of typical cases from the SCUFN meeting reports

During **SCUFN29** (SCUFN29/13) **SCUFN Chair/Vice-Chair/Sec** highlight to consider how SCUFN can record rationales supporting decisions made for addressing difficult cases in sessions suggesting solutions such as a Cook-book?, live appendix to SCUFN ToRs? Repository of best practices? So lessons learned can be re-used in consistent manner in the future.

In **SCUFN30** (SCUFN30/08), as part of the discussion that occurred during the review of this list, some concerns were raised and suggestions made, to better record the ways and means of the SCUFN decision-making process by capitalizing on experiences gained for some typical real or test-cases. It was agreed to prepare a document (“cookbook”) which reflects previous experiences and decisions that have been taken in previous years and thus can be used as a basis for the assessment of difficult cases in the future. SCUFN Members endorsed this proposal and recommended to start with an open repository before drafting a “cookbook”. As a first step, SCUFN Chair, Prof Ivaldi and Dr Han accepted to manage the responsibility for proposing and preparing the establishment of a repository of typical cases.

SCUFN Chair/Vice-Chair/Sec to consider how SCUFN can record rationales supporting decisions made for addressing difficult cases in sessions (cook-book?, live appendix to ToRs? repository of best

practices?...), so lessons learned can be re-used in consistent manner in the future. It was defined as a LONG TERM ACTION.

As a first step, Han/Roberta/SCUFN Chair to propose and prepare the creation of a repository of typical cases.

The Decision making process in SCUFN – Repository of typical cases was a Doc: SCUFN31-03.3A Follow-up on Action SCUFN30/08 (Roberta/Han/Chair). SCUFN Member Roberta Ivaldi provided a presentation of the ongoing development of a cook book technical reference to assist the SCUFN members in the consistent application of B-6 in the review of feature name proposals. Examples were provided and a timeline for further development of the "typical case repository" were proposed to capitalize on lessons learned from different decision-making process.

In **SCUFN31** (SCUFN31/07) (former SCUFN30/08 and SCUFN29/13) Roberta/SCUFN Chair to pursue the creation of a repository of typical cases (“cook book”) aiming to help for the consistency of the decision making process within SCUFN, according to the presentation given at SCUFN31. Different steps were defined:

- Subgroup to define the list of content of the repository of typical cases;
- Approval by SCUFN Members;
- List of typical cases as known and template to solve them (title, example, decision made, recommendation);
- Approval by SCUFN Members and then submission draft «repository» to SCUFN32.

In **SCUFN32** (SCUFN32/04) (former SCUFN 31/07/ SCUFN30/08 and SCUFN29/13) Ivaldi/Mackay/SCUFN Chair maintained to pursue the creation of a repository of typical cases (“cook book”) aiming to help for the consistency of the decision making process within SCUFN, according to the presentation given at SCUFN31.

Subgroup defined the list of content of the repository of typical cases with approval by SCUFN Members.

The list of typical cases as known and template to solve them (title, example, decision made, recommendation) has been proposed and following the approval by SCUFN Members and then submission draft «repository» to SCUFN33

The Decision making process in SCUFN – Repository of typical cases was a Doc: SCUFN33-03.2A Follow-up on Action SCUFN32/04 with the SCUFN33-03.2B Draft version of "Cookbook for Generic Terms of undersea feature names", version June 2020 (Kevin). It was reported that a draft Cookbook had been developed since the last meeting, intended as a starting point for the SCUFN Generic Terms Sub Group to refine and produce document as part of B-6 that includes examples and precedents.

This action led by SCUFN Member Kevin Mackay, proposes more detailed internal guidelines, which cover several criteria (dimensions, depth, steepness and length to width ratio) that are used to help classify the morphological shape and hence identify the correct Generic Term. For preparing a revised version, the Secretary suggested to liaise with Anna Hendi, Chair of the UFN Project Team, who also leads a Canadian project on Undersea Feature (Automated) Detection.

In **SCUFN33** (SCUFN33/07) (former SCUFN32/04, SCUFN 31/07, SCUFN30/08 and SCUFN29/13) Ivaldi/Mackay/SCUFN Chair followed to pursue the creation of a repository of typical cases (“Cookbook”) aiming to help for the consistency of the decision-making process within SCUFN, according to the presentation given at SCUFN31:

- Subgroup to define the list of content of the repository of typical cases
- Approval by SCUFN Members
- List of typical cases as known and template to resolve them (title, example, decision made, recommendation)
- Approval by SCUFN Members and then submission draft «repository» to SCUFN34
- Inclusion of Annex A: Cookbook of generic terms of UFN.

Furthermore in SCUFN33 (SCUFN33/06, SCUFN33/52) the Secretary also reminded that it was only one component of the main Cookbook that goes beyond the generic terms only. The initial intention is to create a repository of decision processes used by SCUFN members to make decisions. Examples were included: what happens if a feature is in a national 200M zone? What happens when a feature is in more than one

national EEZ (issue of mutual consultation)? What happens to features named within an already named group of features? How do groups of features need to be treated? How do you handle nested features (e.g. ridge on a ridge)? What do you call a canyon system that includes all tributaries? Ultimately, it was agreed that some important and mature guidelines will be included in the preparation of the next Edition of B-6.

In **SCUFN34** (SCUFN34VTC03/03) SCUFN Cookbook Manager (Roberta Ivaldi) were available to include these new definitions in a version-controlled Cookbook (version x.x.x dated dd/mm/yyyy) and to send this version to **SCUFN Secretary** for publication on the IHO SCUFN webpage > Basic Documents (SCUFN34/VTC03/02) SCUFN approved the proposal on “Decision Criteria” to be used in Proposals Review (Considerations on Definitions of ACCEPTED, NOT ACCEPTED, ADOPTED, PENDING).

In **SCUFN35** (SCUFN35.1/13) SCUFN agreed on the SCUFN Member Ohara’s recommendation that no change is needed in B-6 for selecting names of living persons for specific term. Decisions to be made on a case-by-case basis. Outcome to be included in the Repository of Typical Cases if appropriate.

SCUFN35.1-03.2A Update on the Status of the Cook Book – Repository of Typical Cases and its Annex –“Cookbook for Generic Terms of Undersea Feature Names” (Lead: Ivaldi, Mackay) Version 1.2.

General comments

The initial intention of this Cook Book is to create a repository of decision processes used by SCUFN members to make decisions and to assist the SCUFN members in the consistent application of B-6 in the review of feature name proposals, so lessons learned can be re-used in consistent manner in the future. The process of control, improving and review was defined as a long-term action and it should consider all needs of application in order to develop a “New version of SCUFN B-6 Publication”.