

SCUFN35.2-03.2B *Update on the Status of the Cook Book –
“Repository of Typical Cases” version 1.0 (Ivaldi/Mackay)*

SCUFN35-03.2A v 1.0

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.

SCUFN35.2-03.2B *Update on the Status of the Cook Book – “Repository of Typical Cases” version 1.0 (Ivaldi/Mackay)*

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).

SCUFN35.2-03.2B *Update on the Status of the Cook Book –
“Repository of Typical Cases” version 1.0 (Ivaldi/Mackay)*

Cook book - Repository of Typical Cases

Roberta Ivaldi¹ and Kevin Mackay²

Version 1.2

October 2022

¹ Italian Hydrographic Institute, Italy
² National Institute of Water and Atmospheric Research (NIWA), New Zealand

Contents

Introduction	3
How to use this cookbook	3
Cookbook list	4
1. Canyons vs Canyon	4
2. Canyons vs Canyon	5
3. Canyon vs Canyons	7
4. Seamount vs Guyot	8
5. Knoll vs Guyot	10
6. Guyot	11
7. Hills vs Hill	13
8. Seamounts vs Seamount	14
9. Shoal vs Hill	15
10. Knoll vs Hill	16
11. Ridge vs Escarpment	19
12. Canyon vs Valley	21
13. Ridge vs Seamount and Hill	21
14. Ridge	24
15. Hill vs Ridge	25
16. Gap vs Saddle	27
17. Rise vs Spur	28
18. Specific term sensitive	29
19. Specific term sensitive	30
20. Specific term to avoid duplication	31
21. Specific term to avoid duplication	32
22. Specific term in Antarctica	33
23. Title: List of reserved specific-terms, for naming an important undersea feature	34
24. Ambiguity of feature	39
25. Dual name adoption	40
26. New specific term vs Scientific publication feature	41
27. New specific term vs scientific paper name	42
28. Specific term used in peer review publication	43
29. Specific term as Princess’ name	44
30. Specific term without connection to the feature	45
31. Specific term as central point	46
32. Undersea feature already named in the GEBCO Gazetteer	47
33. Specific term double meaning	48
34. Generic terms as part of specific – dual term	49
35. Specific term as potential confusion between features	50
36. Specific term politically sensitive	51
37. Feature with conflict of naming	52

SCUFN35.2-03.2B *Update on the Status of the Cook Book – “Repository of Typical Cases” version 1.0 (Ivaldi/Mackay)*

Introduction

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 - Repository of Typical Cases is intended to supplement the SCUFN B-6 publication “Standardization of Undersea Feature Names” and the Generic Terms website: <http://scufnterm.org>. This document is a useful proposals collection in terms of examples to consider in the submission proposal process.

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 (the 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. As the number of undersea feature name proposals submitted to SCUFN has been increasing over the years, the more complete the proposal, the more consistent and rapid will be the response of SCUFN, thus avoiding having to make additional requests to the proposer. In fact in line with the increasing of new submitted undersea feature names there are two main needs: the correct name of the proposal undersea feature (generic and specific terms) and the perfectly good role of SCUFN in the different steps of analysis and evaluation of undersea features proposal before the approval, acceptance and the inserting in the GEBCO Gazetteer of Undersea Feature Names. This Cook book is developing to support the proposer to submit an undersea feature name proposal form completed with all available and reliable information in order to better define the submarine feature and than a more rapid response and acceptance of SCUFN.

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 highlight by SCUFN and as the sense of best practices evolves.

How to use this cookbook

There have been many precedents to the application of the B-6 publication by SCUFN. The document is intended to highlight these precedents in order to guide the decision-making process by future SCUFN meetings.

It contains Typical Cases for assigning the Generic Terms and 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. It 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.

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

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 highlight by SCUFN and as the sense of best practices evolves.

How to use this cookbook

There have been many precedents to the application of the B-6 publication by SCUFN. The document is intended to highlight these precedents in order to guide the decision-making process by future SCUFN meetings.

It contains Typical Cases for assigning the Generic Terms and Specific Terms, considering the difficulties to compile the undersea feature name proposal in order to follow a green line review.

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

SCUFN35.2-03.2B *Update on the Status of the Cook Book –
“Repository of Typical Cases” version 1.0 (Ivaldi/Mackay)*

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).

SCUFN35.2-03.2B Update on the Status of the Cook Book –
“Repository of Typical Cases” version 1.0 (Ivaldi/Mackay)

B-6

Standardization of Undersea Feature Names

Guidelines Proposal Form Terminology

Edition 4.2.0 – October 2019

English/French Version

Normalisation des Noms des Formes du Relief Sous-Marin

Directives Formulaire de Proposition Terminologie

Edition 4.2.0 – octobre 2019

Version anglais/français

International Hydrographic Organization

IHO



OHI

Organisation Hydrographique Internationale

Intergovernmental Oceanographic Commission



Commission océanographique intergouvernementale

Published by the International Hydrographic Organization

publiée par l'Organisation hydrographique internationale

4b quai Antoine 1^{er}
Principauté de Monaco
Tel: (377) 93.10.81.00
Fax: (377) 93.10.81.40
info@iho.int
www.iho.int

Cook book - Repository of Typical Cases

Contents

Roberta Ivaldi¹ and Kevin Mackay²

Version 1.2

October 2022

1. Canyons vs Canyon 4

2. Canyons vs Canyon 5

3. Canyon vs Canyons 7

4. Seamount vs Guyot 8

5. Knoll vs Guyot 10

6. Guyot 11

7. Hills vs Hill 13

8. Seamounts vs Seamount 14

9. Shoal vs Hill 15

10. Knoll vs Hill 16

11. Ridge vs Escarpment 19

12. Canyon vs Valley 21

13. Ridge vs Seamount and Hill 21

14. Ridge 24

21. Specific term to avoid duplication 32

22. Specific term in Antarctica 33

23. Title: List of reserved specific-terms, for 34

24. Ambiguity of feature 39

25. Dual name adoption 40

26. New specific term vs 41

27. New specific term 42

28. Specific term 43

29. Specific term 44

30. Specific term to the feature 45

31. Specific term already named in the GEBCO Gazetteer 46

32. Specific term with double meaning 48

33. Specific terms as part of specific – dual term 49

34. Specific term as potential confusion between features 50

35. Specific term politically sensitive 51

36. Feature with conflict of naming 52

38. 53

39. 54

Annex – Cook book for generic terms of feature names

...Working progress ... Version 2.0