

Report on Marine Regions activities

SCUFN-35, Paris, March 2022

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Marineregions.org

towards a standard for georeferenced marine names

Marine Regions

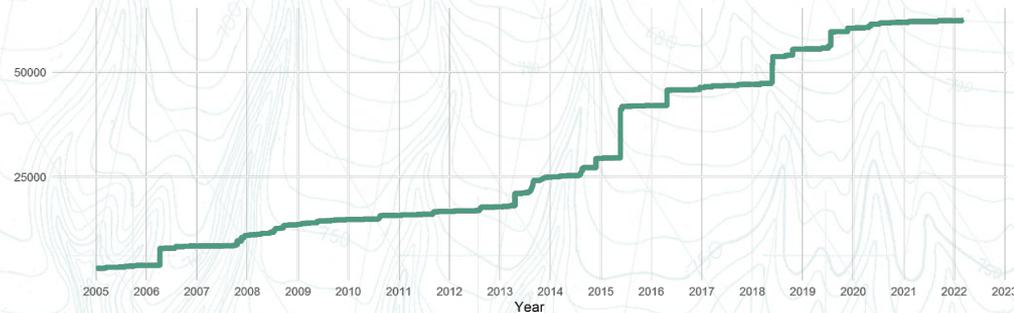
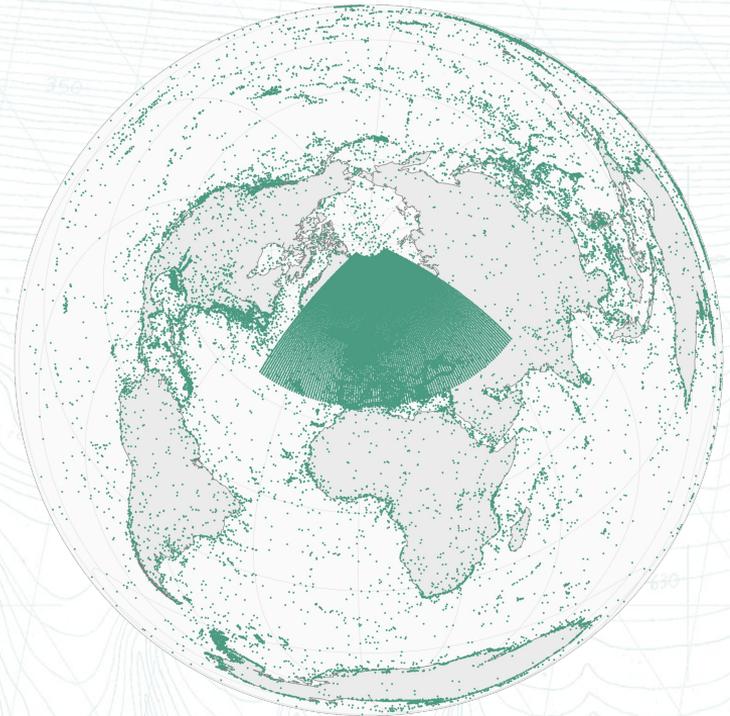
Outline

- Introduction
- Undersea features
 - GEBCO update
 - ACUF update
- Other gazetteer updates
- Data products updates
- Short-termed planned activities for Marine Regions
- Marine Regions... and beyond

Marine Regions gazetteer

Introduction

- Standard list of marine georeferenced place names and areas.
- **62,303** marine georeferenced places
- Sources: authoritative gazetteers, ecological classifications,...
- Serves as the geographic backbone for large-scale integrated geographic databases



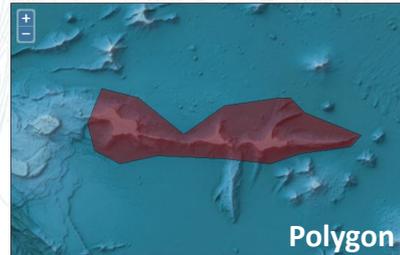
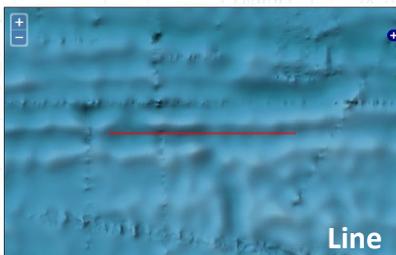
Marine Regions gazetteer

Introduction

- The identity of each feature or geo-object in the database is given by a unique and persistent **Marine Regions Geographic Identifier: MRGID**.
- Each geo-object is defined by a place type and its coordinates (vector) but can have multiple synonyms.



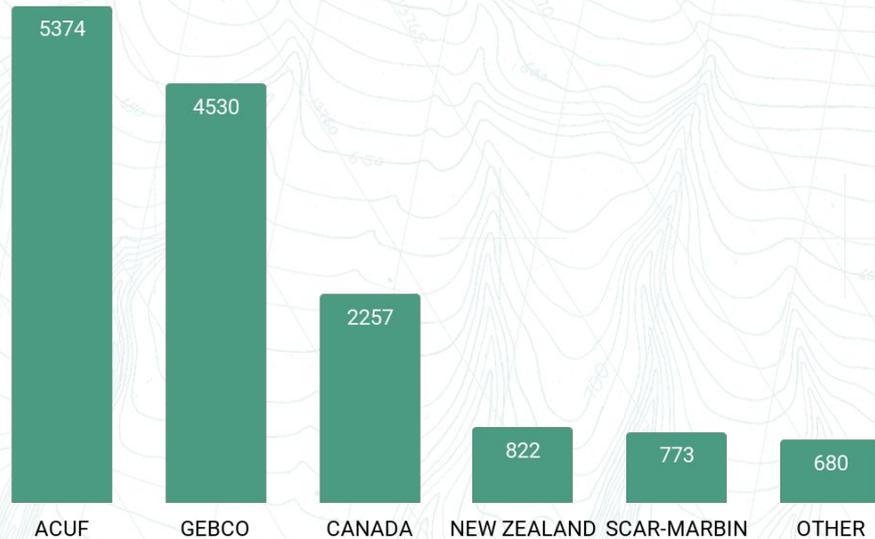
Geometry



Marine Regions gazetteer

Introduction

- **11622 undersea features** records in Marine Regions



Undersea features

GEBCO update

- **75 new features** added to Marine Regions, mainly from SCUFN-34 but also from SCUFN-31, SCUFN-32 and SCUFN-33
- Issues found:
 - a. Since last year, two features have been deleted. For one of these features (Joseph Gilbert Seamount), a similar feature (in name and geometry) is still present in the GEBCO gazetteer. Was this feature replaced by the present one, or are they unrelated (see table below)? For the feature Medio-Atlantica Ridge, is it possible that this is/was meant to be a part of the Mid-Atlantic Ridge? Can this feature be replaced by the Mid-Atlantic Ridge, or are they unrelated since the geometry is different?

featureId (deleted)	feature (deleted)	featureId (present)	feature (present)
1490	Joseph Gilbert Seamount	6170	Joseph Gilbert Seamount
1936	Medio-Atlantica Ridge	no present feature in GEBCO OR 1990?	no present feature in GEBCO OR Mid-Atlantic Ridge?

Undersea features

GEBCO update

- Issues found (continued):
 - b. For the feature Monowai Caldera (featureId = 889160), it is not entirely clear if the Generic Type of the given feature can be considered similar to the Feature Designation (seamount) for the feature with identical name in the ACUF gazetteer (UFI = 14988298), and if the features are the same. For now, we have integrated them under the same MRGID. Could you please confirm or deny?
 - c. For the feature Ciluo Guyots (featureId = 888971), it is not entirely clear if the Generic Type of the given feature can be considered similar to the Feature Designation (tablemount) for the feature with identical name in the ACUF gazetteer (UFI = 14988603), and if the features are the same. For now, we have integrated them under the same MRGID. Could you please confirm or deny?

Undersea features

ACUF update

- **8 new features** added to Marine Regions
- Issues found:
 - a. The Generic Type of Sars Seamount (UFI = -155351) has been altered in the GEBCO gazetteer to Guyot.
 - b. The feature Navarin Canyon (UFI = -154616) was listed with UFI 14792392 in our previous download of the ACUF database (2020-07-06). Is this still the same feature?
 - c. The features Tianqing Knoll (UFI = 14962048) and Tianxian Knoll (UFI = 14962049) have the exact same coordinates and Feature Designation. The GEBCO gazetteer contains two separate features with the same name, but different coordinates. Could the coordinates be erroneous for (one of) these features?
 - d. There are now two features named Wrangel Abyssal Plain (UFI = -155018, -156143) with different Feature Designation. Are these indeed two separate features?
 - e. The GEBCO gazetteer contains a feature named Bedaoch Ridge with similar geometry and Feature Designation as the ACUF feature Bedoach Ridge (UFI = 14961870). Could the spelling be erroneous for this feature?

Undersea features

ACUF update

- Issues found (continued):
 - f. For several features, there are now two instances in the ACUF gazetteer in close proximity of each other (see table below). Are these indeed separate features?

feature	UFI (original)	UFI (new)
Matheson Bank	-154363	14962000
Taranaki Terrace	-153274	14962044
North Bounty Channel	-154734	14988302
South Bounty Channel	-155589	14988334
Papanui Canyon	-154877	14988703
Bahama Ridge	-152628	15034453
Blake Ridge	-152628	15034454

Undersea features

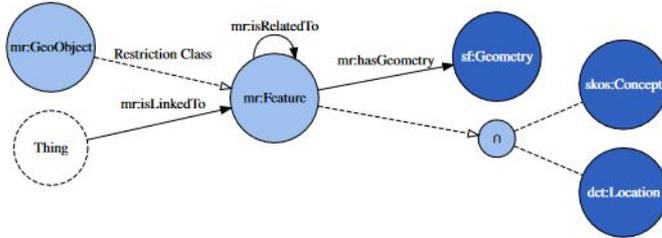
ACUF update

- Issues found (continued):
 - g. The feature Kaimei Escarpment (UFI = 14988577) has the same description as the feature Kaimei Escarpment in the GEBCO gazetteer, but significantly different coordinates. Could the coordinates be erroneous for this feature?
 - h. The feature Kounoashi Seamount (UFI = 14988632) has the same description as the feature Kounoashi Seamount in the GEBCO gazetteer, but significantly different coordinates. Could the coordinates be erroneous for this feature?
 - i. There are now two features named Whenuanuipapa Plain: one with coordinates similar to the feature in the GEBCO gazetteer (UFI 14962060) and one close to the dateline (UFI 9092933). However, the description of the latter does not match its coordinates. Are these indeed separate features?
 - j. The GEBCO gazetteer contains a feature named Walter Munk Guyot with the same coordinates as the ACUF feature Munk Guyot (UFI = 15034452), but these coordinates are on opposite sides of the dateline. Could the coordinates be erroneous for this feature?
 - k. See issue GEBCO b.
 - l. See issue GEBCO c.

Other gazetteer updates

Linked Open Data & Linked Data Event Stream

- New web services
 - getFeed
 - getGazetteerGeometry
 - getGazetteerGeometries
- More information: <https://www.vliz.be/nl/imis?module=ref&refid=346947>

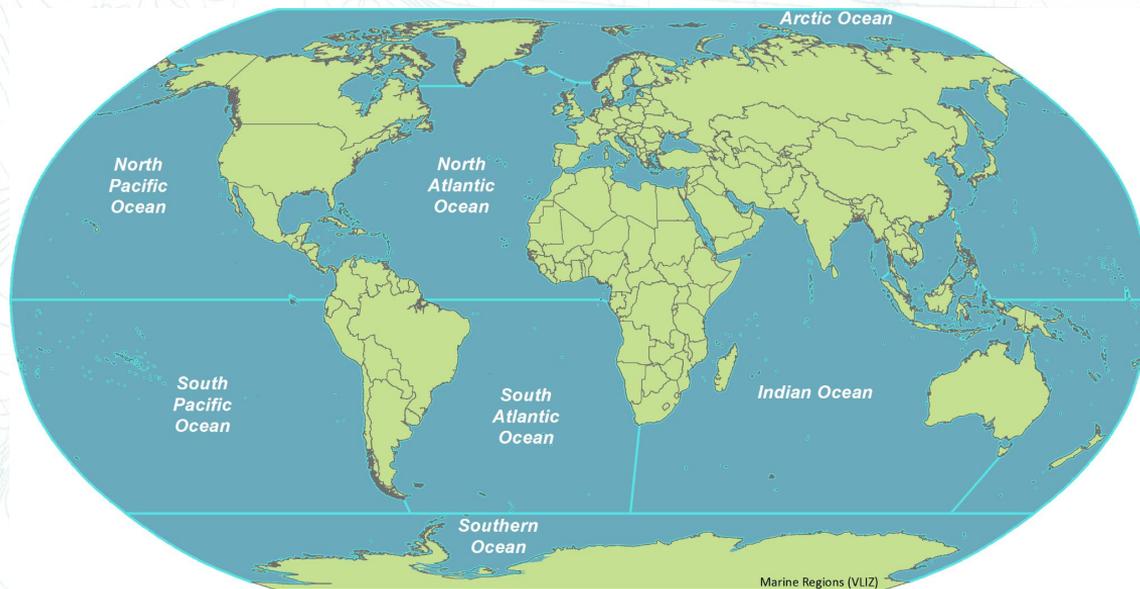


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Data products updates

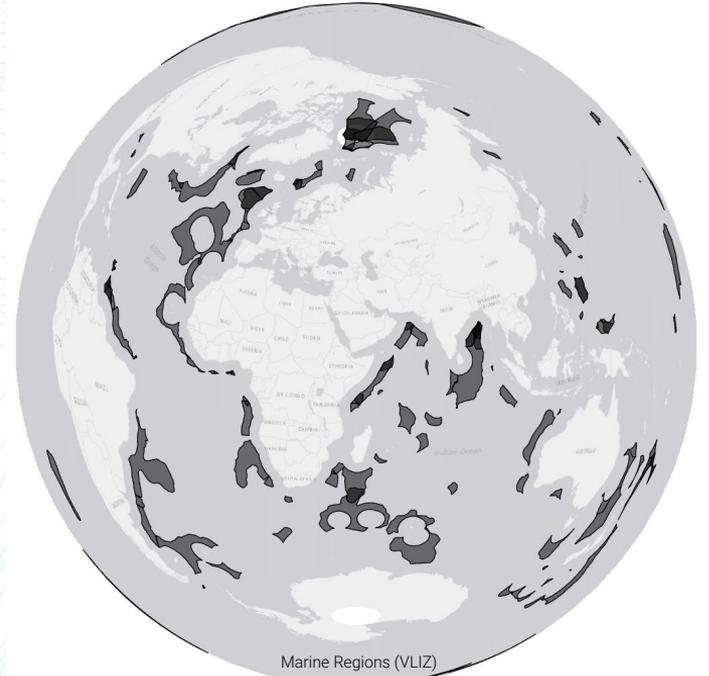
Global Oceans and Seas v1



+ IHO S-130 PT

Short-termed planned activities for Marine Regions

- Extended Continental Shelves
- Update of mregions R package
- Maritime Boundaries v12



Marine Regions... and beyond

- Any other gazetteers known to you?
 - To integrate
 - To learn from

Thanks for listening!

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