

# IW:LEARN Spatial Lab training

Gaborone, Botswana

<http://geonode.iwlearn.org/>



Why is this important?

# Principles of spatial data management

*Spatial data should be stored in a long-term stable platform*

*All data should have appropriate metadata to allow users to search and understand the source and use of the data*

*All data collected in GEF IW projects should be open and accessible – collect once, use multiple times*

*Spatial data should be stored in an electronic, standard format*

What is spatial data?

Spatial data is data that has a spatial reference

Latitude 33° 58' 3.64" S

Longitude 18° 29' 2.17" E

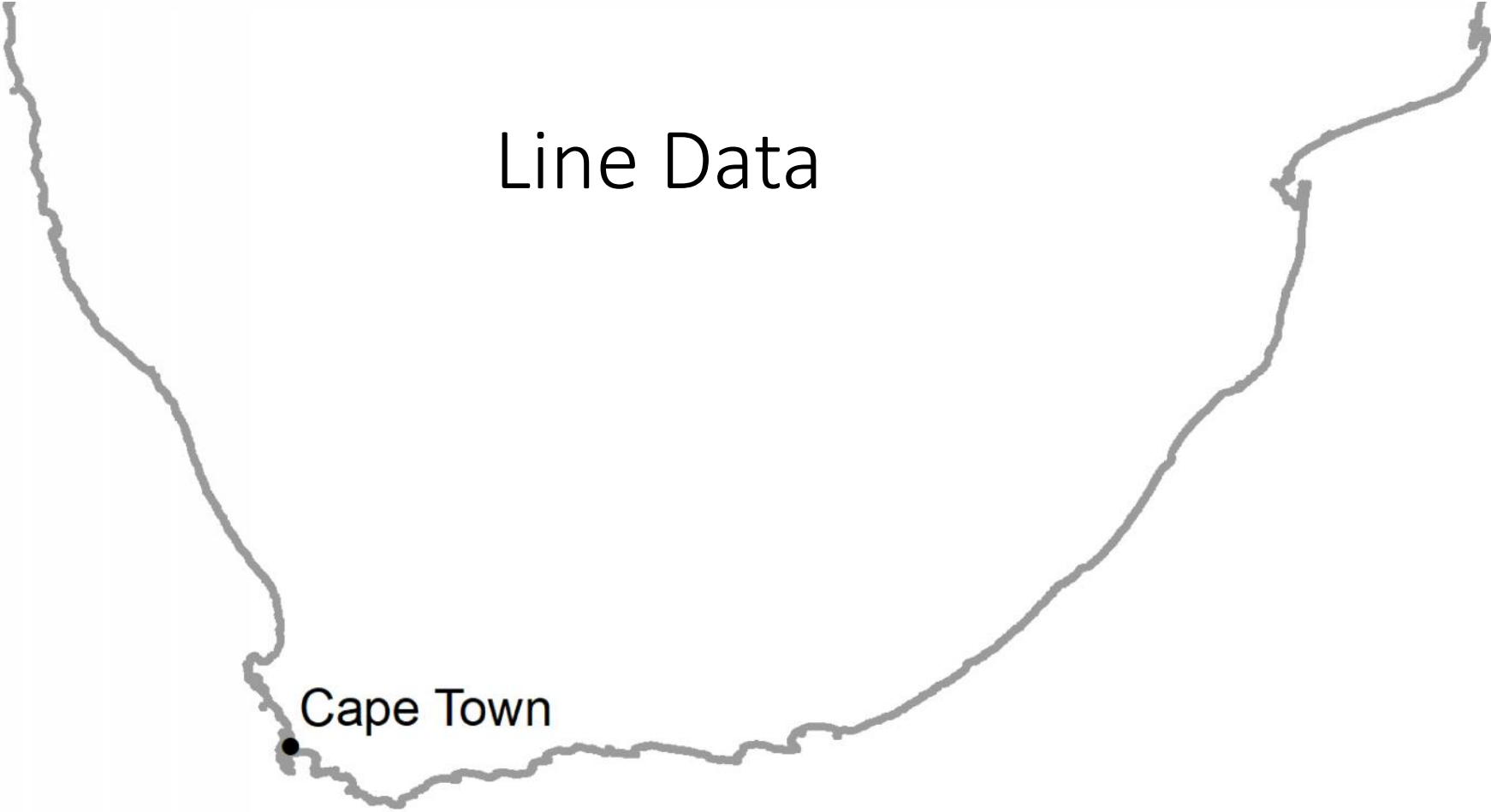
# Point Data

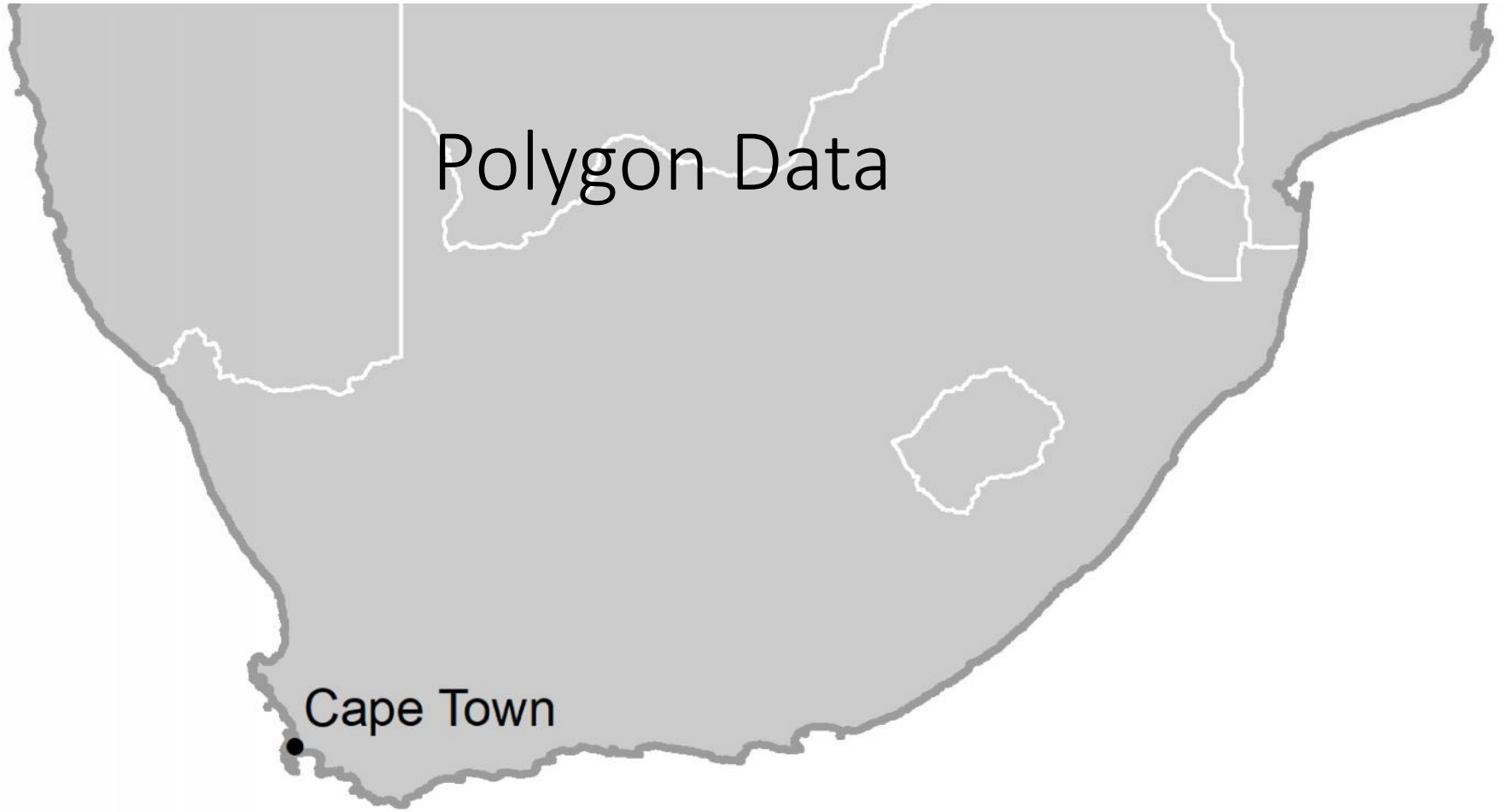


# Point Data

• Cape Town

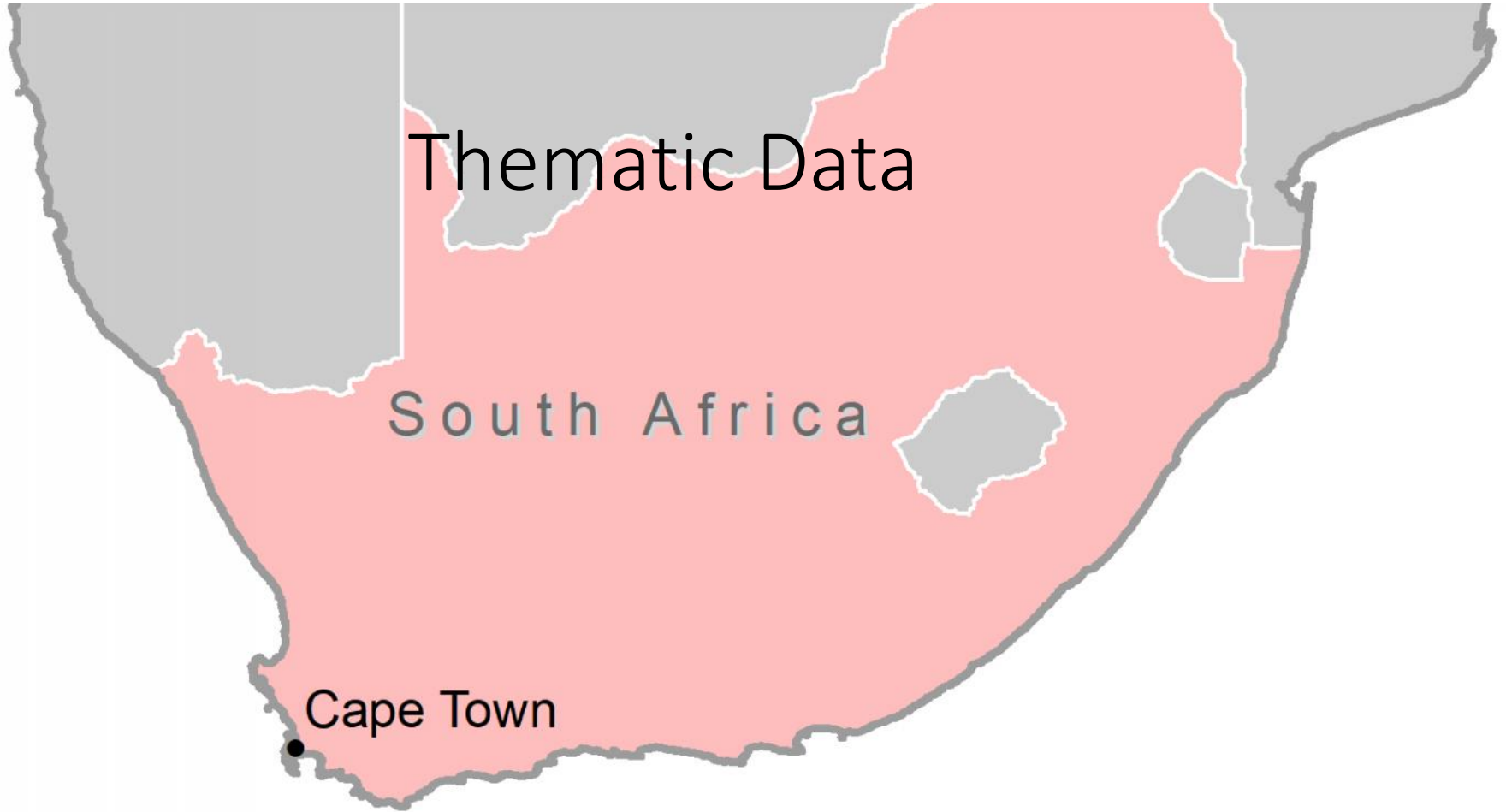
# Line Data





Polygon Data

Cape Town



Thematic Data

South Africa

Cape Town

A satellite-style image of the Americas, showing North and South America in shades of brown, tan, and green, surrounded by dark blue oceans. The text "Image data" is overlaid in white in the upper central part of the image.

Image data

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



# GRID data

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Projects have to deal with a wide range of data

- Collected samples
- Remote sensing data
- Administrative boundaries
- Environmental features
- Human use data
- Plus much more!

## Challenge: How to manage data

- During the project
- After the project
- IW:LEARN Spatial Lab can provide support



# Welcome to IW:LEARN Spatial Lab

## Discover The IW:LEARN Spatial Datasets



LME

<http://geonode.iwlearn.org>

Aquifers

River Basins

Lakes

Oceans



Others

## Search for Data.

Q Search

[Advanced Search](#)

# What is IWLEARN Spatial Lab

- Built on GeoNode ([www.geonode.org](http://www.geonode.org))
- Platform for the management and publication of geospatial data
- Spatial Data Infrastructure (SDI)

**Store, Find, Visualise  
Spatial Data and Metadata**

IW:LEARN Spatial Lab Training

# Geonode training

- How to create an account
- Exploring the interface
- Upload your own data
- Creating metadata
- Styling Data
- Creating maps
- Sharing maps

Creating an account

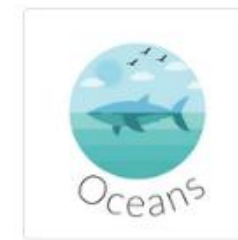
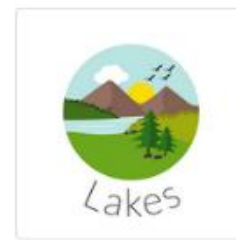
*To register as a user please send an email to [iwlearn@grida.no](mailto:iwlearn@grida.no) and provide your name and IW project name.*



# Welcome to IW:LEARN Spatial

- Profile
- Recent Activity
- Inbox
- Admin
- GeoServer
- Help
- Logout

## Discover The IW:LEARN Spatial Datasets



**Search for Data.**

Search



## Miles Macmillan-Lawler (miles\_GRIDA)



### Miles

Email	<a href="mailto:miles.macmillan-Lawler@grida.no">miles.macmillan-Lawler@grida.no</a>
Position	Programme Lead
Organization	GRID-Arendal
Location	NOR
Voice	Not provided.
Fax	Not provided.
Description	Miles is the programme lead for state of environment and spatial planning at GRID-Arendal. He oversees the Web development and visualisation components of the IWLEARN project.
Keywords	<span>Marine</span> <span>Spatial Analysis</span> <span>Data</span> <span>IWLEARN</span>

[Message User](#)

[Edit profile](#)

[Change password](#)

[Upload new layers](#)

[Create a new map](#)

[My Activities](#)

[Announcements](#)

[Remote Services](#)

[Invite User](#)

[GeoServer](#)

[Admin](#)

### Resources

[All contents](#) [Layers](#) [Maps](#) [Documents](#)

Exploring the interface



Data ▾

Maps ▾

About ▾

Search



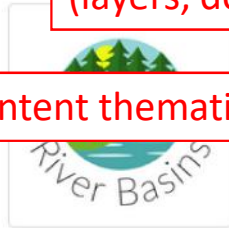
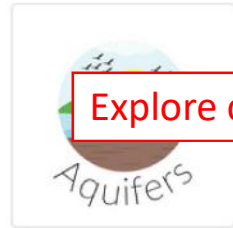
miles\_GRIDA ▾

Explore existing maps and remote services  
View and explore people and groups  
Create new maps  
Add new layers, documents and remote services

Manage profile  
Logout

# to IW:LEARN Spatial Lab

## Discover The IW:LEARN Spatial Datasets



Search content (layers, documents)

Explore content thematically

## Search for Data.



Search

[Advanced Search](#)

Upload your own data

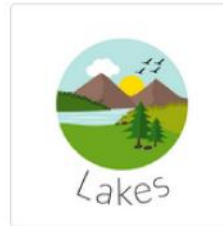
Note: The Spatial Lab accepts most standard spatial data formats



- Layers
- Documents
- Remote Services
- Upload Layer**
- Upload Document
- Add Remote Service

# Welcome to IW:LEARN Spatial Lab

## Discover The IW:LEARN Spatial Datasets



## Search for Data.

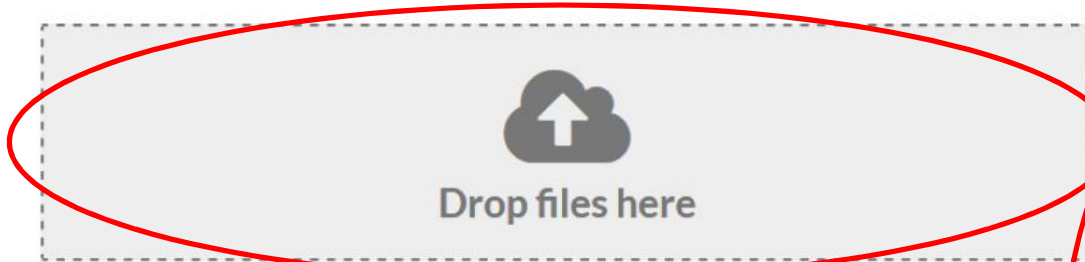
Search

[Advanced Search](#)



# Upload Layers

Explore Layers



or select them one by one:

Choose Files

## Files to be uploaded

Select the charset or leave default

UTF-8/Unicode ▾

Clear Upload files

## Permissions

### Who can view it?

Anyone

The following users:

Choose users...

The following groups:

Choose groups...

### Who can download it?

### Who can change metadata for it?

### Who can edit data for this layer?

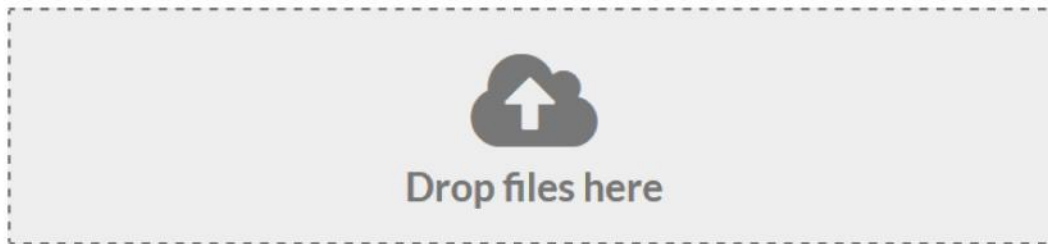
### Who can edit styles for this layer?

### Who can manage it? (update, delete, change permissions, publish/unpublish it)



# Upload Layers

Explore Layers



or select them one by one:

Choose Files

Files to be uploaded

Seamounts

ESRI Shapefile

- Seamounts.dbf [Remove](#)
- Seamounts.prj [Remove](#)
- Seamounts.shp [Remove](#)
- Seamounts.shx [Remove](#)
- Seamounts.sld [Remove](#)
- Seamounts.xml [Remove](#)

Preserve Metadata

Required shp, dbf, shx, prj  
Optional sld, xml

## Permissions

### Who can view it?

Anyone

The following users:

Choose users...

The following groups:

Choose groups...

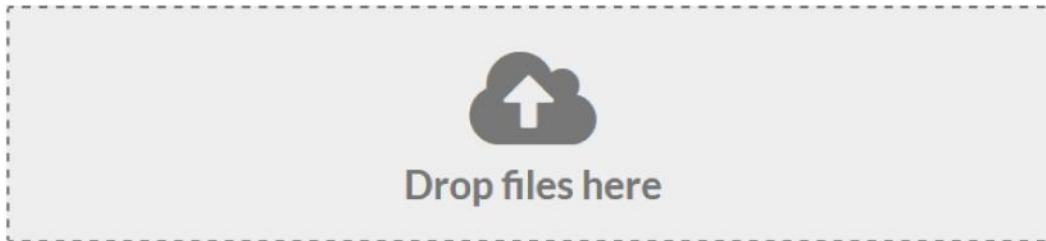
Who can edit it?

Who can manage metadata for it?

Who can manage styles for this layer?

### Who can edit styles for this layer?

Who can manage it? (update, delete, change permissions, publish/unpublish it)



Drop files here

or select them one by one:

Choose Files

Files to be uploaded

## Seamounts

## ESRI Shapefile

- Seamounts.dbf [Remove](#)
- Seamounts.prj [Remove](#)
- Seamounts.shp [Remove](#)
- Seamounts.shx [Remove](#)
- Seamounts.sld [Remove](#)
- Seamounts.xml [Remove](#)

Your upload has started



## Permissions

### Who can view it?

Anyone

The following users:

Choose users...

The following groups:

Choose groups...

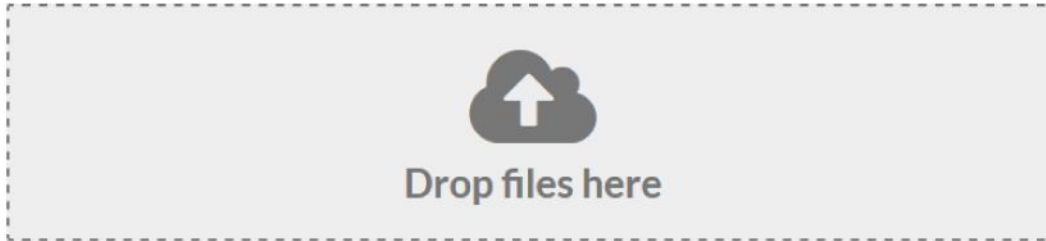
### Who can download it?

### Who can change metadata for it?

### Who can edit data for this layer?

### Who can edit styles for this layer?

### Who can manage it? (update, delete, change permissions, publish/unpublish it)



Drop files here

or select them one by one:

Choose Files

Files to be uploaded

## Seamounts

### ESRI Shapefile

- Seamounts.dbf Remove
- Seamounts.prj Remove
- Seamounts.shp Remove
- Seamounts.shx Remove
- Seamounts.sld Remove
- Seamounts.xml Remove

Your layer was successfully uploaded

Layer Info

Edit Metadata

Manage Styles

## Permissions

### Who can view it?

Anyone

The following users:

Choose users...

The following groups:

Choose groups...

### Who can download it?

### Who can change metadata for it?

### Who can edit data for this layer?

### Who can edit styles for this layer?

Who can manage it? (update, delete, change permissions, publish/unpublish it)

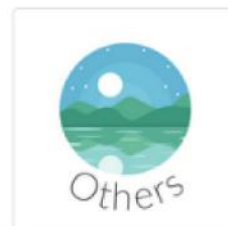
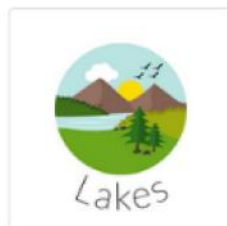
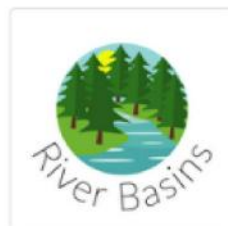
Note: your own SDI can be linked directly to IWLEARN Spatial Lab using web services



# Welcome to IW:LEARN Spatial Lab

- Layers
- Documents
- Remote Services
- Upload Layer
- Upload Document
- Add Remote Service**

## Discover The IW:LEARN Spatial Datasets



## Search for Data.

Search

[Advanced Search](#)



## Register New Service

Service URL

Service name

Service Type

Auto-detect ▾

Create



- Data
- Layers
- Documents
- Remote Services
- Upload Layer
- Upload Document
- Add Remote Service

- Maps
- Explore Maps
- Create Map

- About
- People
- Groups
- Announcements
- Add User
- Invite User
- Create Group

Powered by [GeoNode](#) version 2.6.3  
[Developers](#) | [About](#)

English ▾



# Remote Services

Register a new Service

Title	URL
Flanders Marine Institute (VLIZ) - Geoserver WMS Service	http://geo.vliz.be/geoserver/MarineRegions/wms
Layers	https://services.arcgisonline.com/ArcGIS/rest/services/World_Imagery/MapServer/
GeoServer Web Map Service	http://twap-rivers.org:8080/geoserver/twap/ows



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Powered by [GeoNode](#) version 2.6.3  
[Developers](#) | [About](#)

English ▾

Metadata

# Metadata is not a dirty word

- Describes the data
- Can be used to search for data
- Others can understand about the data, limitations, age, purpose etc.

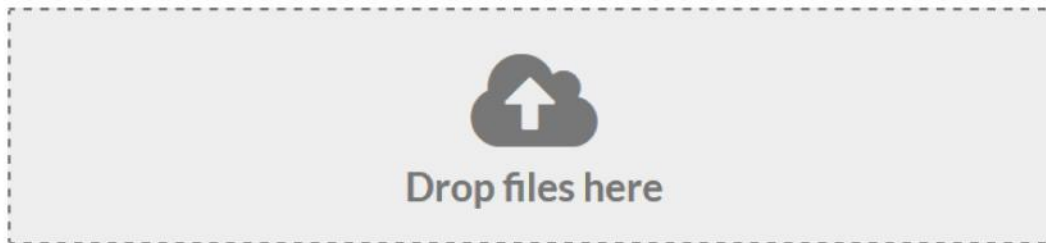
# Standards for metadata

- ISO 19115, FGDC, Dublin Core, EU Inspire Directive
- Stored in xml file (ISO 19139)
- The Spatial Lab can import existing metadata or be used to create metadata



# Upload Layers

Explore Layers



or select them one by one:

Choose Files

Files to be uploaded

## Seamounts

### ESRI Shapefile

- Seamounts.dbf [Remove](#)
- Seamounts.prj [Remove](#)
- Seamounts.shp [Remove](#)
- Seamounts.shx [Remove](#)
- Seamounts.sld [Remove](#)
- **Seamounts.xml [Remove](#)**

Preserve Metadata

## Permissions

### Who can view it?

Anyone

The following users:

Choose users...

The following groups:

Choose groups...

### Who can download it?

### Who can change metadata for it?

### Who can edit data for this layer?

### Who can edit styles for this layer?

### Who can manage it? (update, delete, change permissions, publish/unpublish it)



# Edit Metadata

Explore Layers

Editing details for geonode:seamounts

Note: this layer's original metadata was populated by importing a metadata XML file. GeoNode's metadata import supports a subset of ISO, FGDC, and Dublin Core metadata elements. Some of your original metadata may have been lost.

Update

### Owner

✕ miles\_GRIDA

### Title

Seamount geomorphic feature layer

### Date

2014-02-20 12:00 AM



### Date type

Publication ▾

### Edition

### Abstract

The seamount geomorphic feature layer represents the spatial extent of the seamounts of the worlds oceans based on interpretation of the SRTM30 plus v7 global bathymetry model.

## Mandatory metadata fields

- Title
- Date/Date type
- Abstract
- Purpose
- Maintenance frequency
- Regions
- License
- Spatial representation type
- Data Quality Statement
- Keywords
- Category

Styling a layer

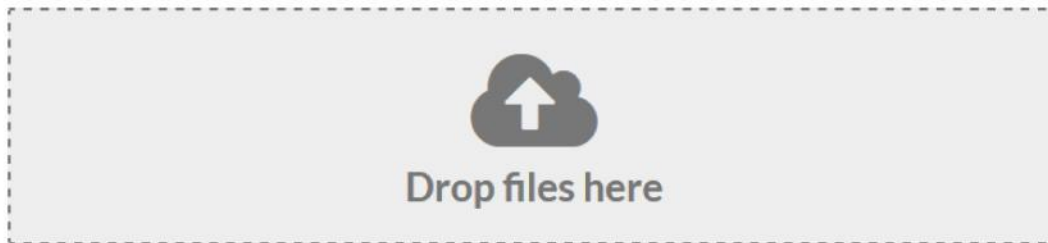
## Option 1. SLD style file

- Can be created using desktop GIS (e.g. QGIS)
- Upload with the layer



# Upload Layers

Explore Layers



or select them one by one:

Choose Files

Files to be uploaded

## Seamounts

### ESRI Shapefile

- Seamounts.dbf [Remove](#)
- Seamounts.prj [Remove](#)
- Seamounts.shp [Remove](#)
- Seamounts.shx [Remove](#)
- **Seamounts.sld [Remove](#)**
- Seamounts.xml [Remove](#)

Preserve Metadata

## Permissions

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The following users:

Choose users...

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Choose groups...

### Who can download it?

### Who can change metadata for it?

### Who can edit data for this layer?

### Who can edit styles for this layer?

### Who can manage it? (update, delete, change permissions, publish/unpublish it)

## Option 2. Within the Spatial Lab

- Geonode has an inbuilt style tool
- Layers can have multiple styles



Data ▾

Maps ▾

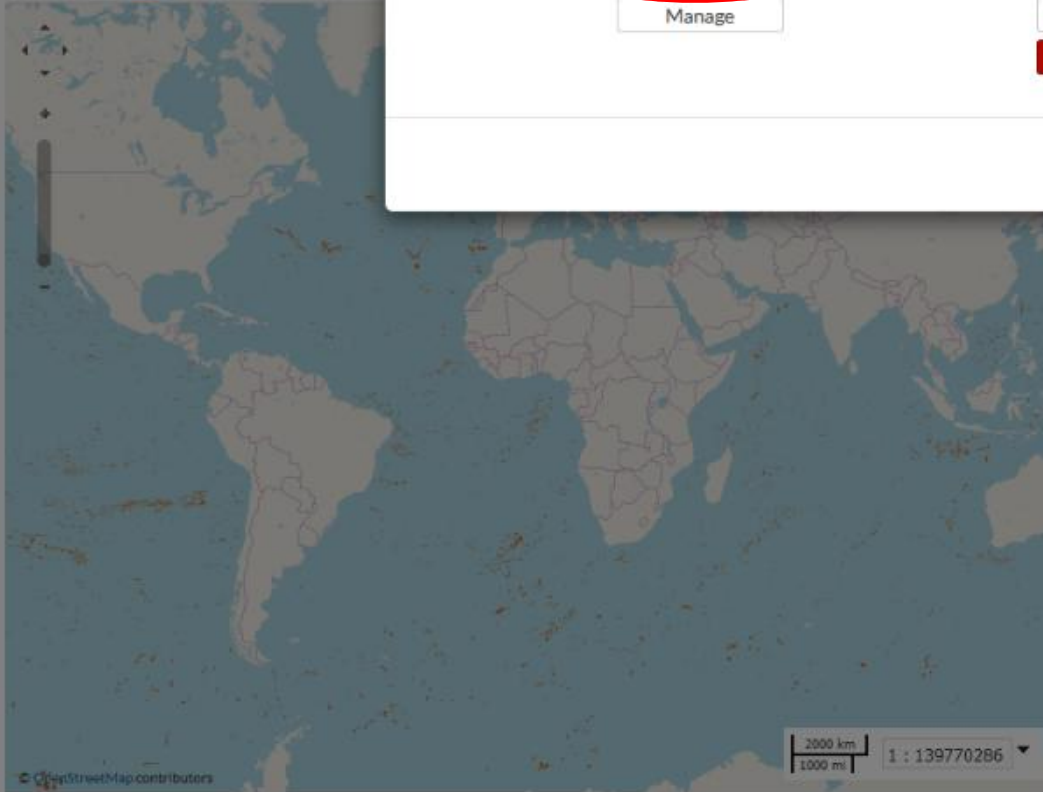
Search



miles\_GRIDA ▾

# Seamount geomor

☰ · 🖨 · + · ⓘ · ✎ · 📏 · 🔍



© OpenStreetMap contributors

2000 km  
1000 mi  
1 : 139770286

Info

Attributes

Share

Ratings

Comments

Title Seamount geomorphic feature layer

## Edit Layer



Metadata

Edit



Styles

Edit

Manage



Thumbnail

Set



Layer

Replace

Edit data

Remove

Close

Download Layer

Metadata Detail

Edit Layer

Download Metadata

### Legend

Seamounts

### Maps using this layer

List of maps using this layer:

Benguela Current LME seamounts

### Create a map using this layer

Click the button below to generate a new map based on this layer.

Create a Map

### Styles

The following styles are associated with this layer. Choose a style to view it in the preview



# Seamount geomorphic feature layer

Layer Styles: Seamount geomorphic feature layer

Styles

Choose style: seamounts

+ Add - Remove Edit Duplicate

Rules

Seamounts

+ Add - Remove Edit Duplicate

2000 km / 1000 mi | 1 : 139770286

© OpenStreetMap contributors

Title Seamount geomorphic feature layer

- Download Layer
- Metadata Detail
- Edit Layer
- Download Metadata

## Legend

Seamounts

## Maps using this layer

List of maps using this layer:

[Benguela Current LME seamounts](#)

## Create a map using this layer

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# Seamount geomorphic feature layer

The map interface includes a toolbar with icons for home, print, zoom in, info, edit, pan, zoom out, search, and navigation. The map shows a world view with seamounts highlighted in orange. A dialog box titled "Style Rule: Seamounts" is open, showing the "BASIC" tab. The "Name" field contains "Seamounts". The "Symbol" is a small orange square. The "Fill" checkbox is checked, and the "Color" is set to "#D95F0E". The "Opacity" is set to 1.0. The "Stroke" checkbox is unchecked. "Cancel" and "Save" buttons are at the bottom of the dialog. A scale bar at the bottom right shows 2000 km and 1000 mi, with a scale of 1:139770286.

Download Layer

Metadata Detail

Edit Layer

Download Metadata

### Legend

- Seamounts

### Maps using this layer

List of maps using this layer:

- Benguela Current LME seamounts

### Create a map using this layer

Click the button below to generate a new map based on this layer.

Create a Map

### Styles

The following styles are associated with this layer:

Making a map



Explore Maps

Create Map

# Welcome to IW:LEARN Spatial Lab

## Discover The IW:LEARN Spatial Datasets



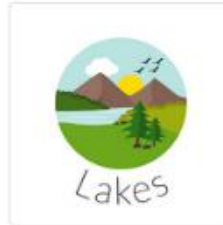
LME



Aquifers



River Basins



Lakes



Oceans



Others

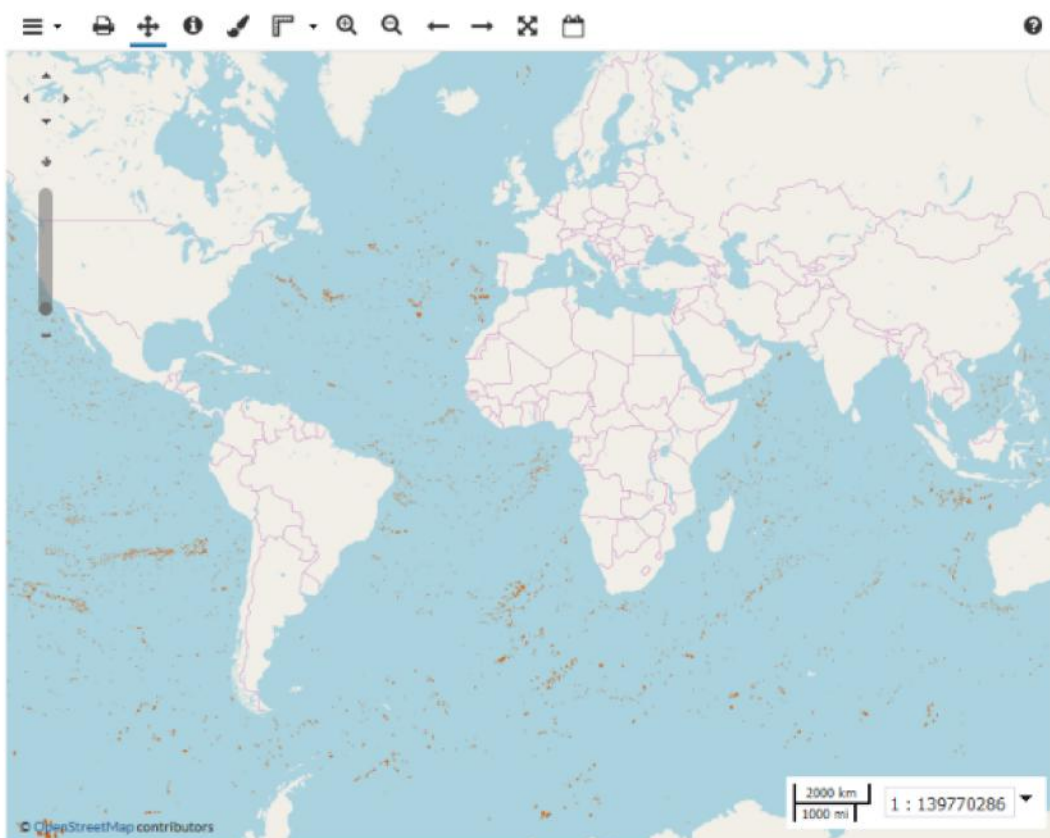
## Search for Data.

Q Search

[Advanced Search](#)



## Seamount geomorphic feature layer



Info Attributes Share Ratings Comments

Title Seamount geomorphic feature layer

Download Layer

Metadata Detail

Edit Layer

Download Metadata

### Legend

Seamounts

### Maps using this layer

List of maps using this layer:

[Benguela Current LME seamounts](#)

### Create a map using this layer

Click the button below to generate a new map based on this layer.

Create a Map

### Styles

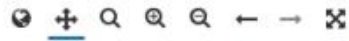
The following styles are associated with this layer. Choose a style to view it in the preview



LAYERS

- +
- 
- +
- +
- +

Map





LAYERS ▸ AVAILABLE LAYERS

View available data from:

My GeoServer WMS ▾

Title	Id
+ basins_country_units	geonode:basin...
+ cage	geonode:cage
+ wcmc_008_coralreefs...	geonode:coral...
+ countries	geonode:count...
+ Transboundary aquifers	geonode:lw_aq...
+ lw_river_line	geonode:lw_riv...
+ Transboundary lakes	geonode:lw_la...
+ lw_oceans_polygon	geonode:lw_oc...
+ LMEs	geonode:imes6...
+ Mangrove biomass (t...	geonode:mang...
+ manila_bay_administr...	geonode:manil...
+ manila_bay_mgt_bdr...	geonode:manil...
+ manila_bay_mgt_bdr...	geonode:manil...
+ map_point_472	geonode:map...
+ mapa_geologico4326...	geonode:mapa...
+ mapa_geologico_falla...	geonode:mapa...
+ mapa_geologico_pro...	geonode:mapa...
+ marine_ecoregions	geonode:marin...
+ Seamount geomorphi...	geonode:seam...
+ Seamount geomorphi...	geonode:seam...
+ Transboundary River ...	geonode:trans...

Add layers Done





LAYERS



Overlays

Seamount geomorphic feature layer



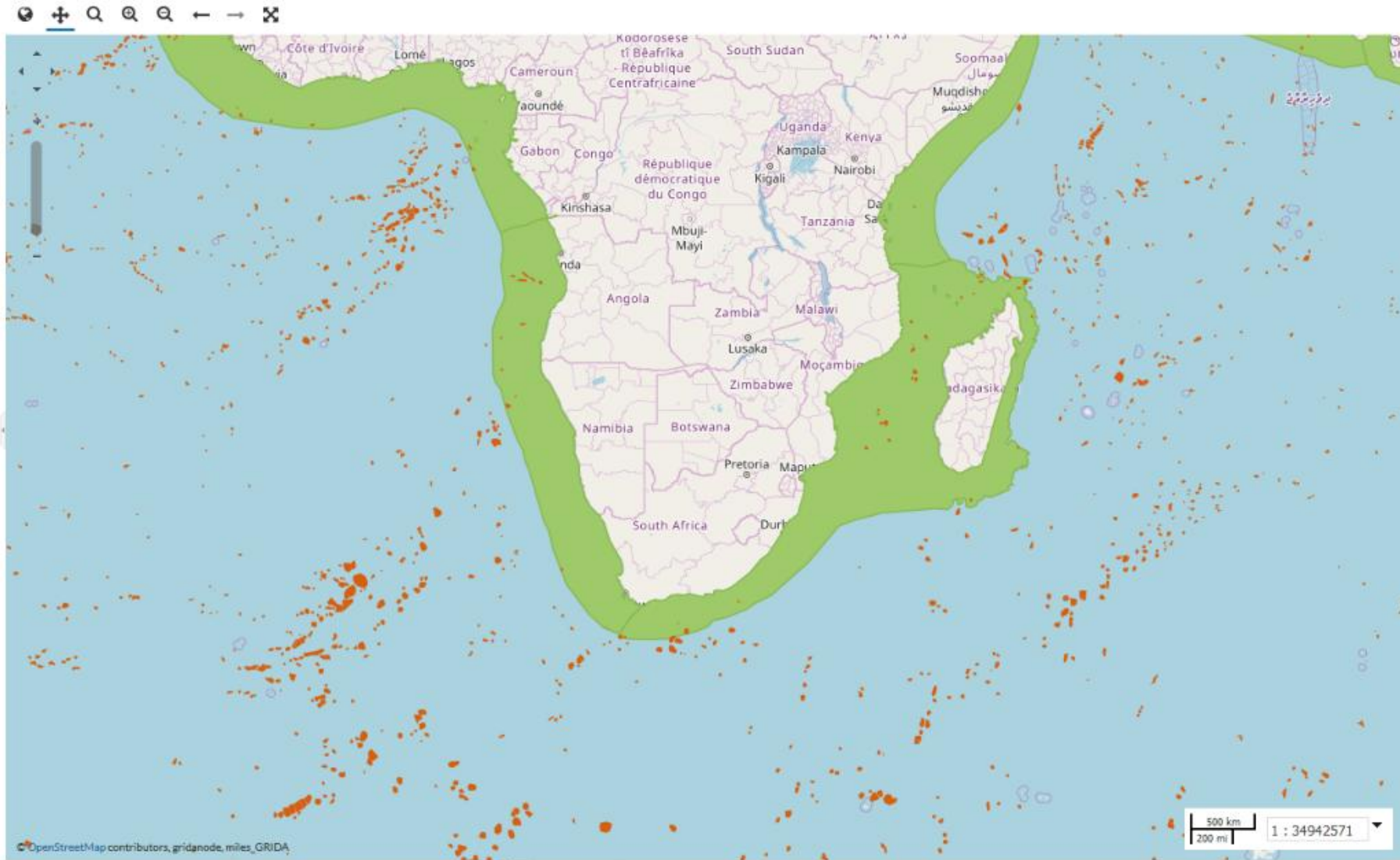
LMEs



Base Maps

OpenStreetMap

No background





LAYERS



Overlays

Seamount geomorphic feature layer



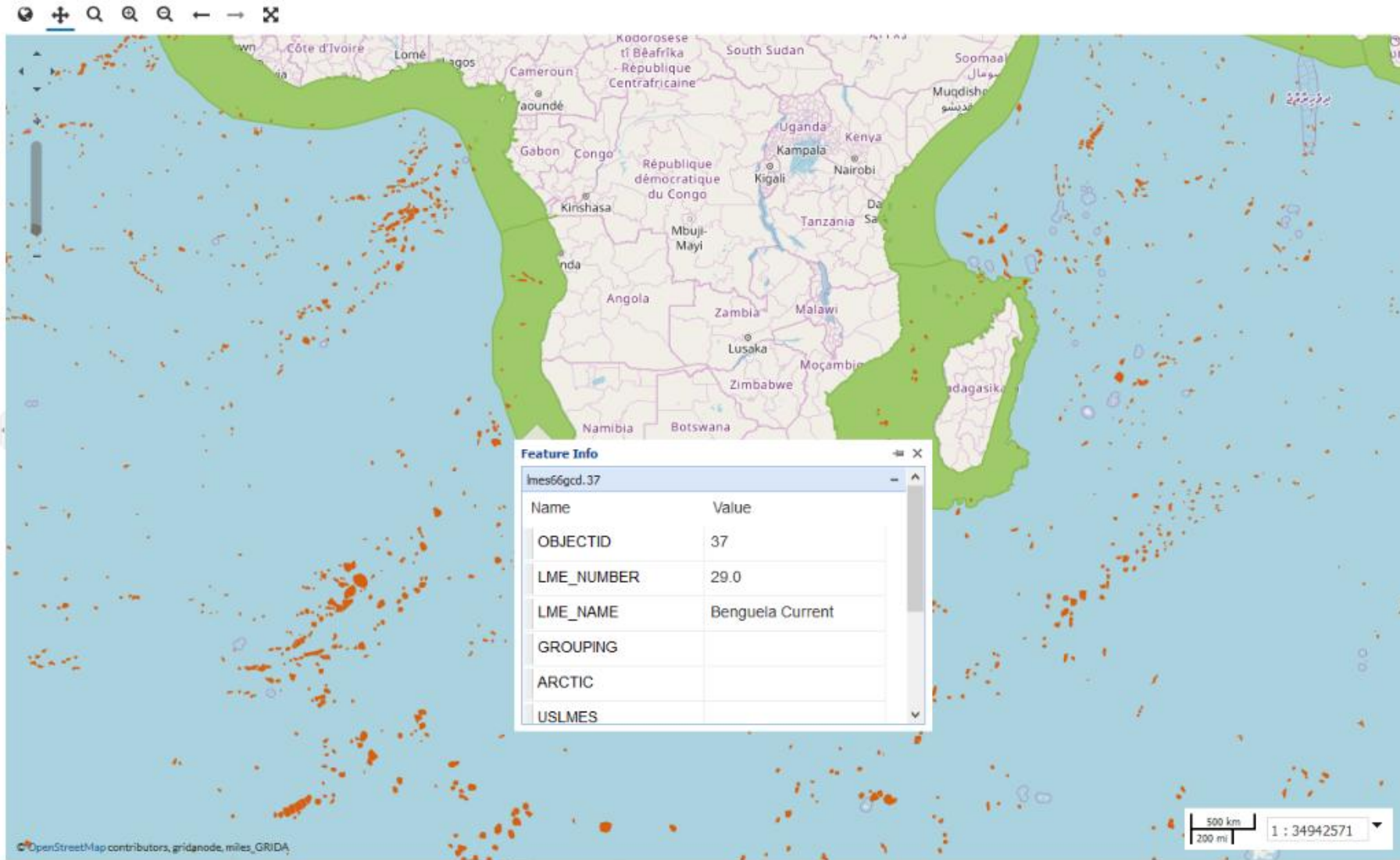
LMEs



Base Maps

OpenStreetMap

No background





LAYERS



Overlays

Seamount geomorphic feature layer

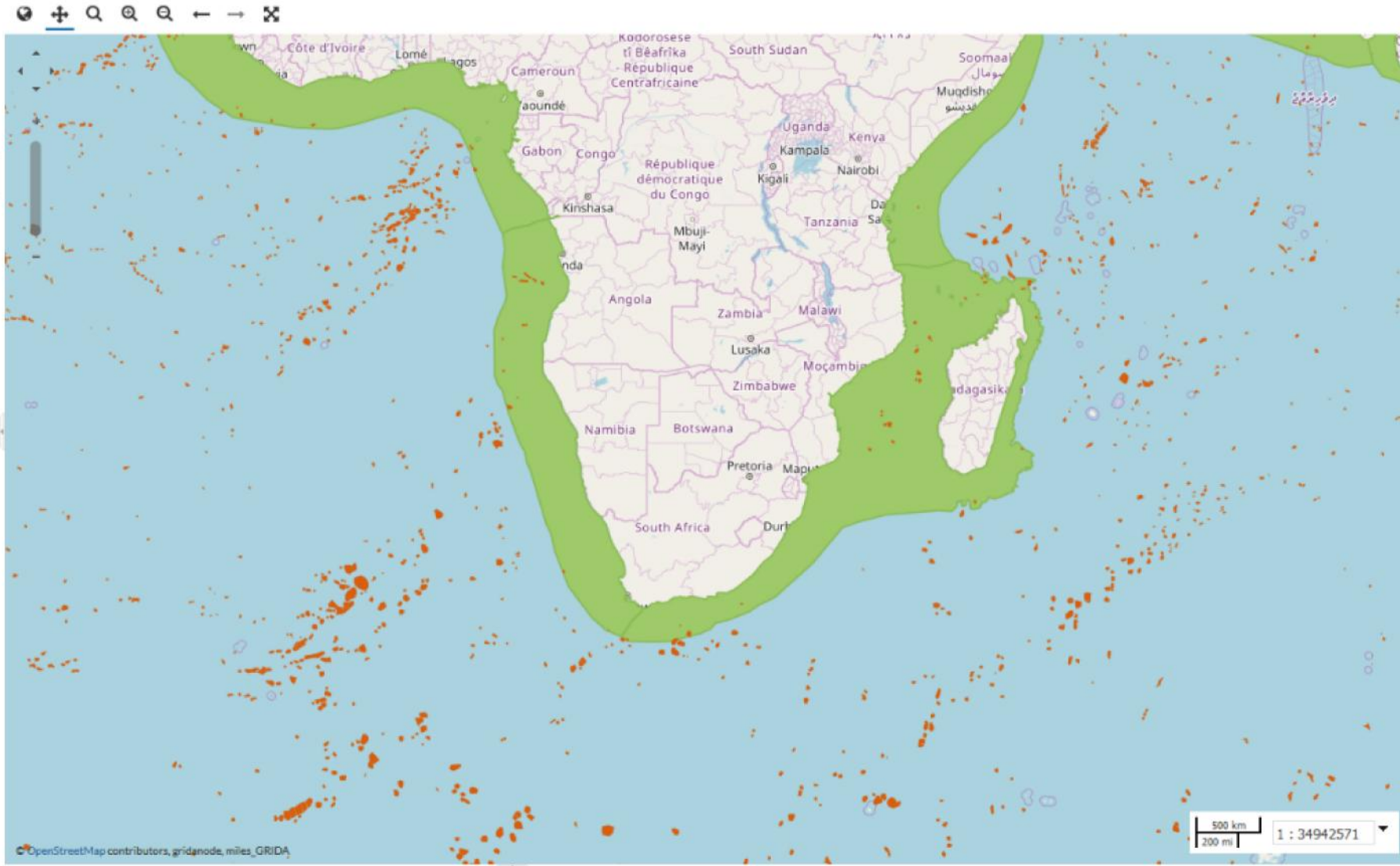
LMEs

Base Maps

OpenStreetMap

No background

- Zoom to layer extent
- Remove layer
- Layer Properties**
- Layer Styles
- Layer Info





LAYERS ▸ LMES

About DISPLAY Available Styles

Display options

Opacity:

Format: image/png  Transparent

Single tile:  Use a single tile

Cache:  Use cached version

Info format: Select a format ▾

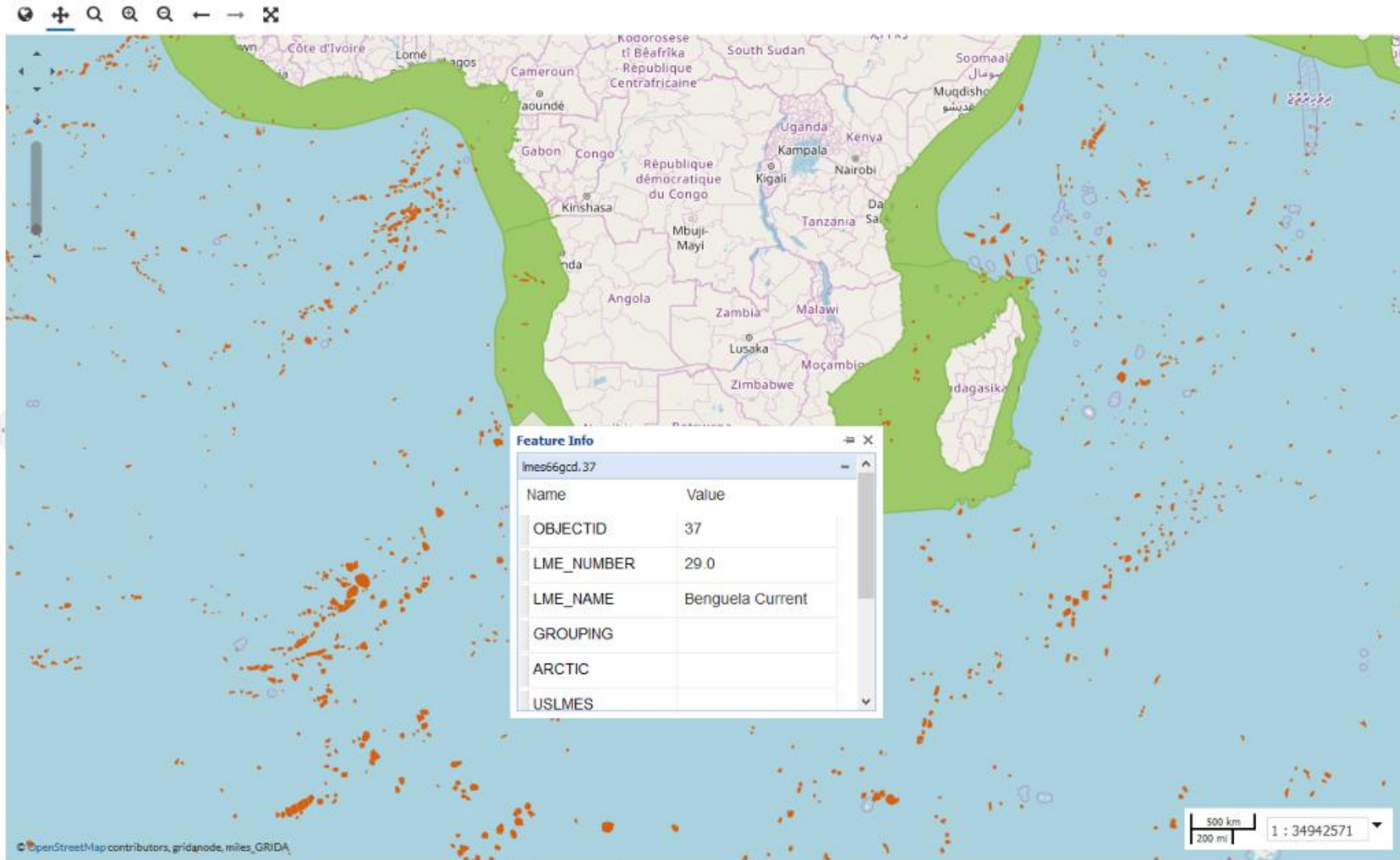
Limit with filters

Match any ▾ of the following:

NAME ▾ = ▾ Benguela Current

or use CQL filter instead

Limit by scale





LAYERS ▾ LMES

About DISPLAY Available Styles

Display options

Opacity:

Format: image/png  Transparent

Single tile:  Use a single tile

Cache:  Use cached version

Info format: Select a format

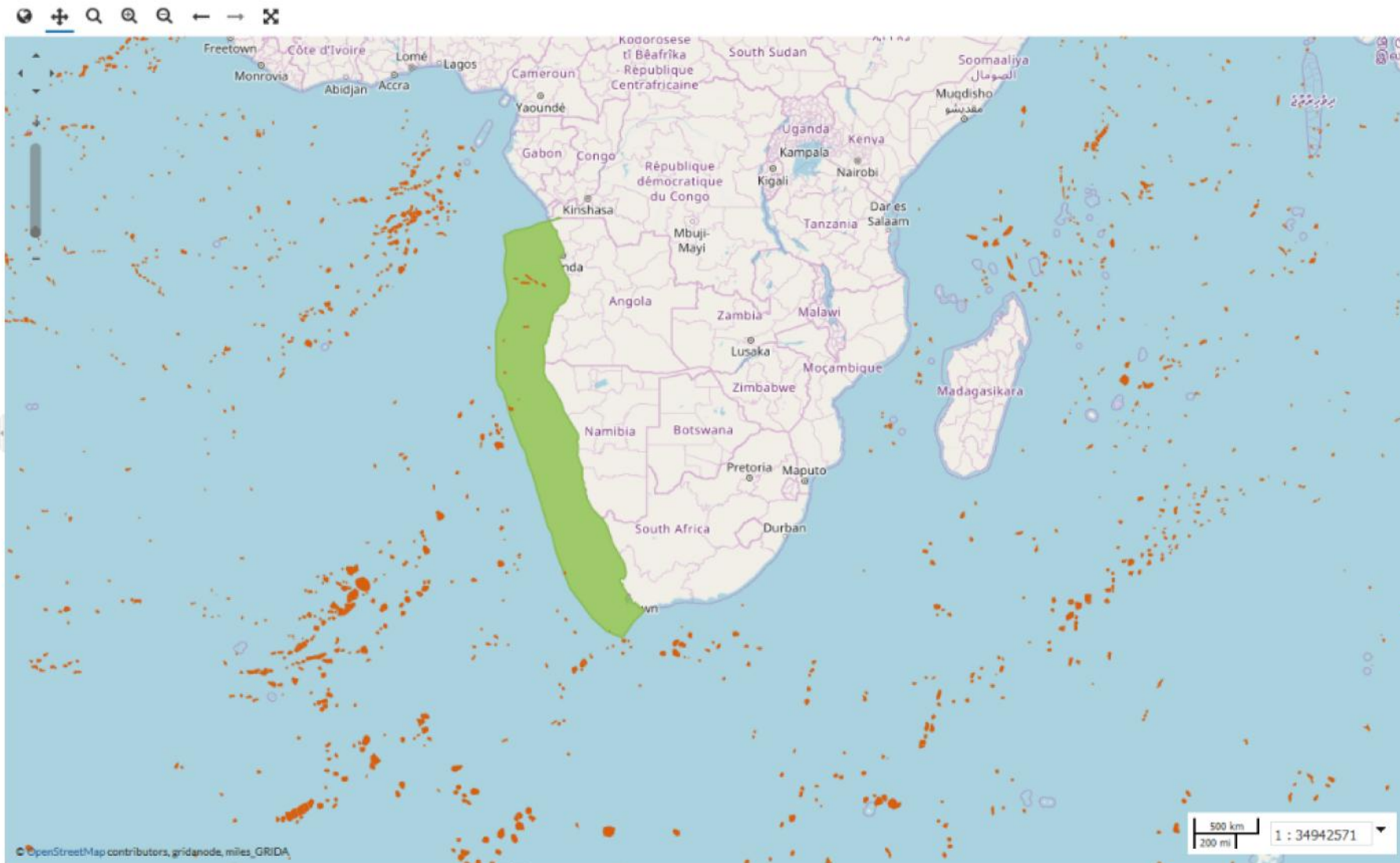
Limit with filters

Match any of the following:

NAME = Benguela Current

add condition or use CQL filter instead

Limit by scale



Saving, sharing and publishing a  
map



- Publish map
- Save map

Available Styles

Display options

Opacity:

Format: image/png  Transparent

Single tile:  Use a single tile

Cache:  Use cached version

Info format: Select a format ▾

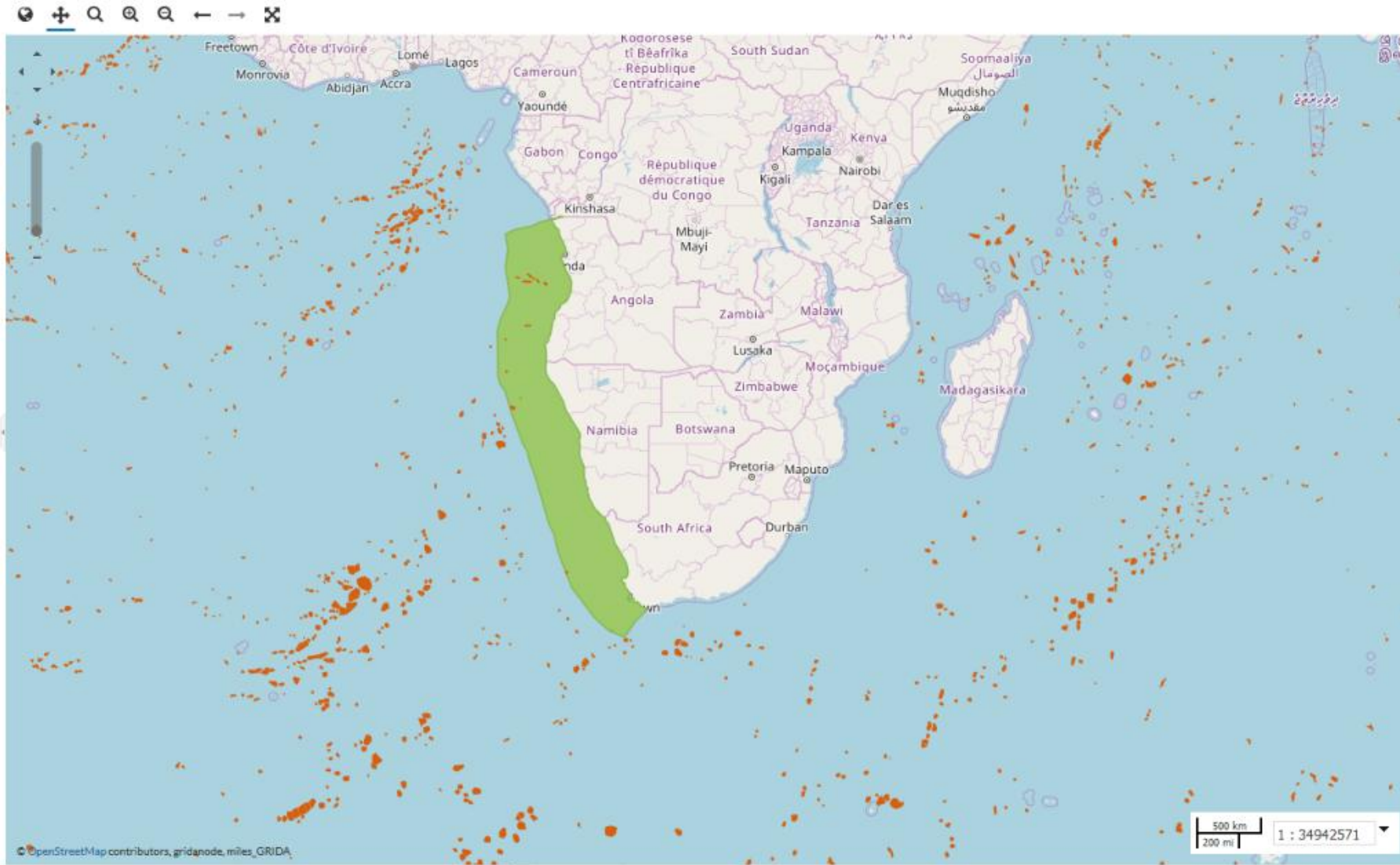
Limit with filters

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LAYERS ▸ LMES

About DISPLAY Available Styles

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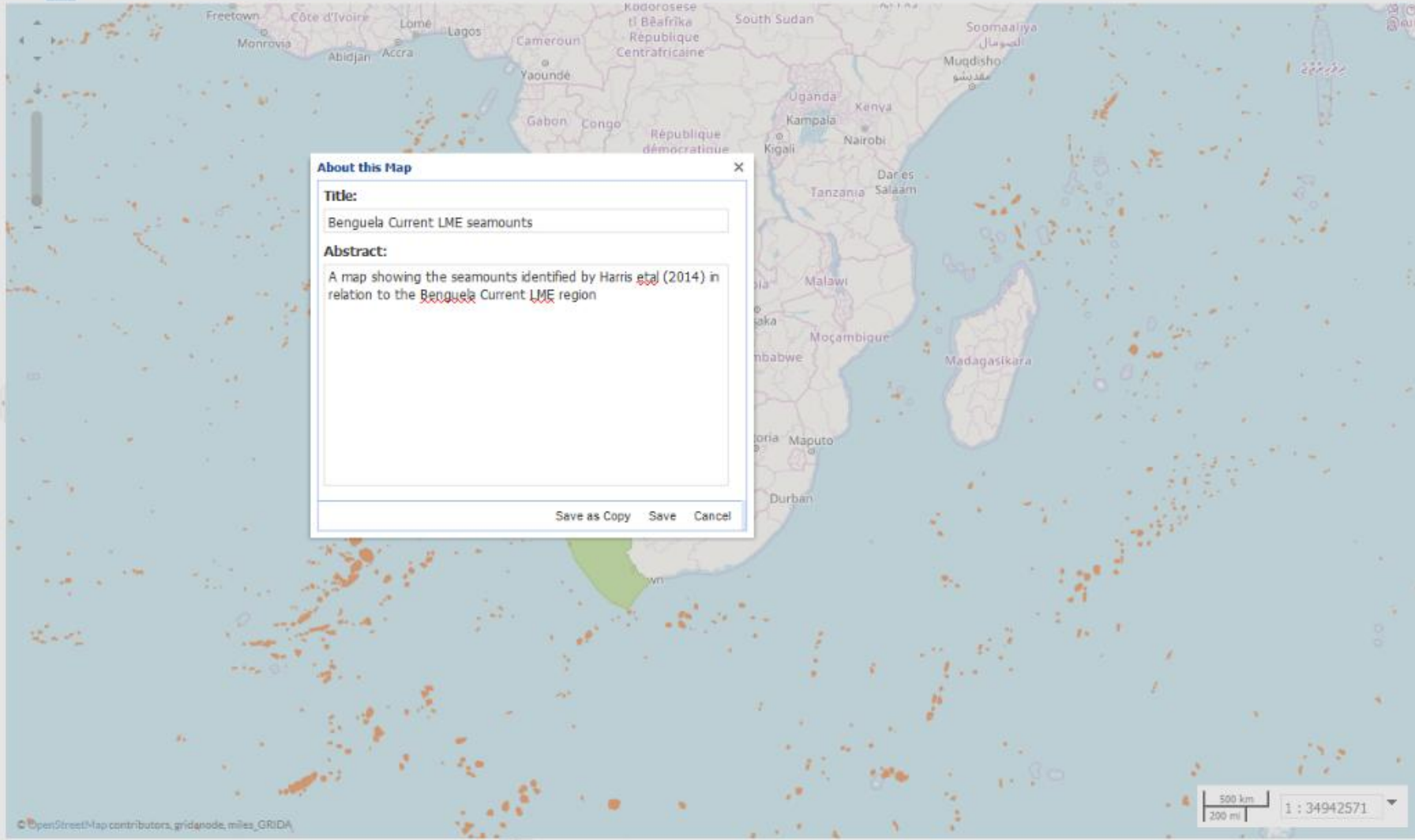
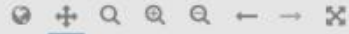
Limit with filters

Match any ▾ of the following:

IAME ▾ = ▾ Benguela Current

add condition or use CQL filter instead

Limit by scale



**About this Map** [X]

**Title:**  
Benguela Current LME seamounts

**Abstract:**  
A map showing the seamounts identified by Harris et al (2014) in relation to the Benguela Current LME region

Save as Copy Save Cancel



# Explore Maps

Create a New Map

**Cart**

Add resources through the "Add to cart" buttons.

Set permissions

Filters Clear

TEXT


Search by text

KEYWORDS

- 2009Update
- Archipelagic Waters
- arcticmarineareas
- bays
- boundaries
- Boundary
- coastal water bodies

Total: 5






### Benguela Current LME seamounts

A map showing the seamounts identified by Harris etal (2014) in relation to the Benguela Current LME region

miles\_GRIDA 28 Nov 2017 0 0 0

View Map



### Transportaion

Norway Transportaion

gridapublisher 19 Nov 2017 2 0 0

View Map



### nor

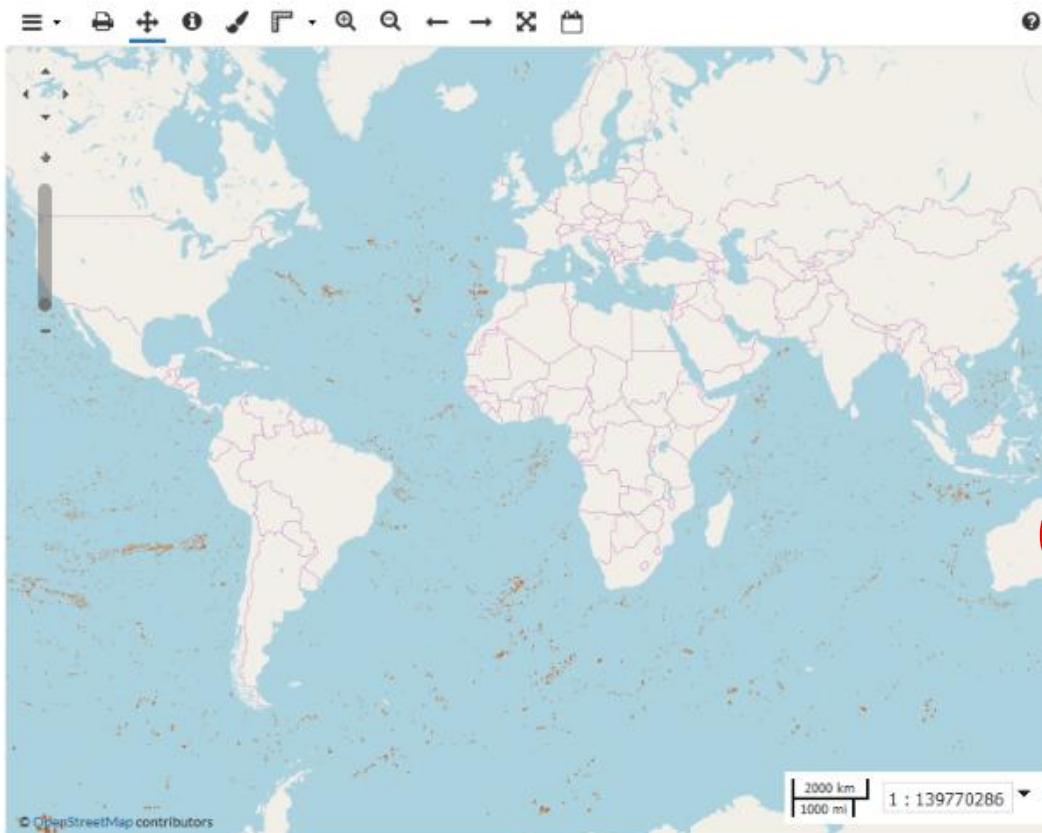
data

gridapublisher 19 Nov 2017 1 0 0

View Map



## Seamount geomorphic feature layer



Info Attributes Share Ratings Comments

Title Seamount geomorphic feature layer

Download Layer

Metadata Detail

Edit Layer

Download Metadata

### Legend

Seamounts

### Maps using this layer

List of maps using this layer:

[Benguela Current LME seamounts](#)

### Create a map using this layer

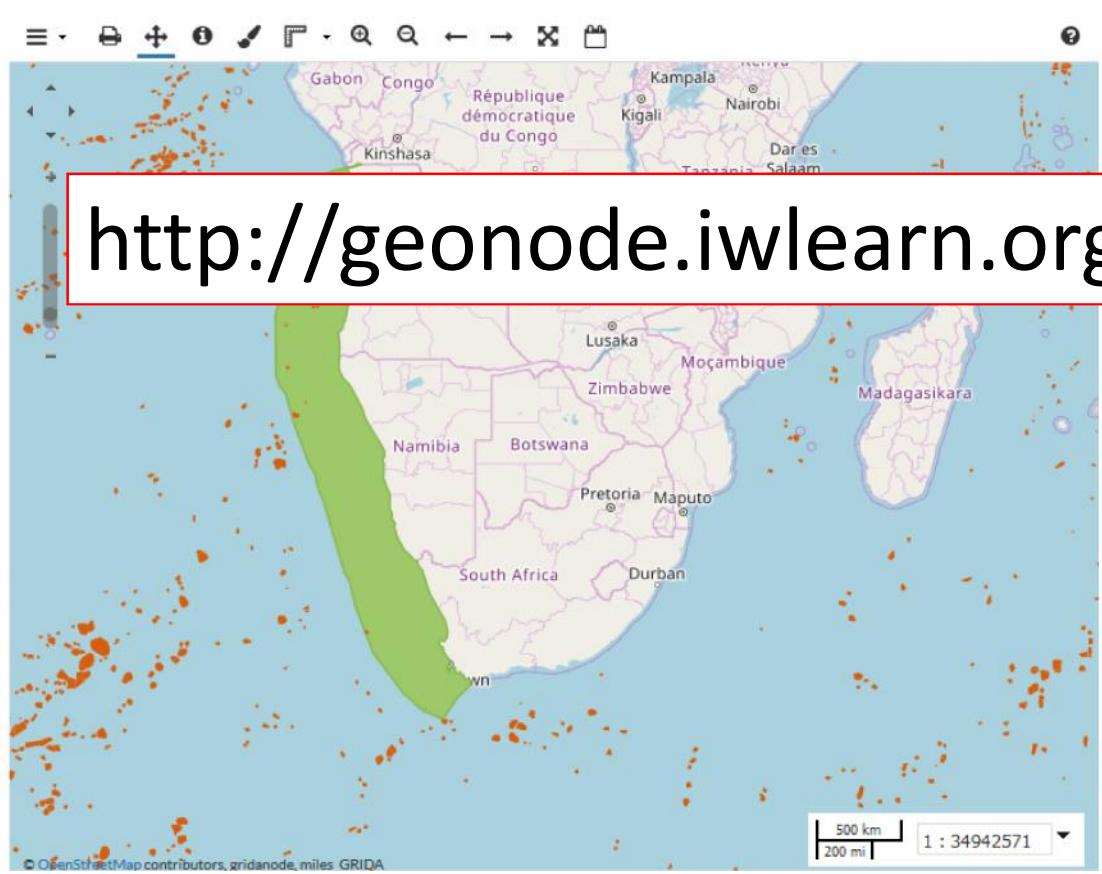
Click the button below to generate a new map based on this layer.

Create a Map

### Styles

The following styles are associated with this layer. Choose a style to view it in the preview

# Benguela Current LME seamounts



Download Map

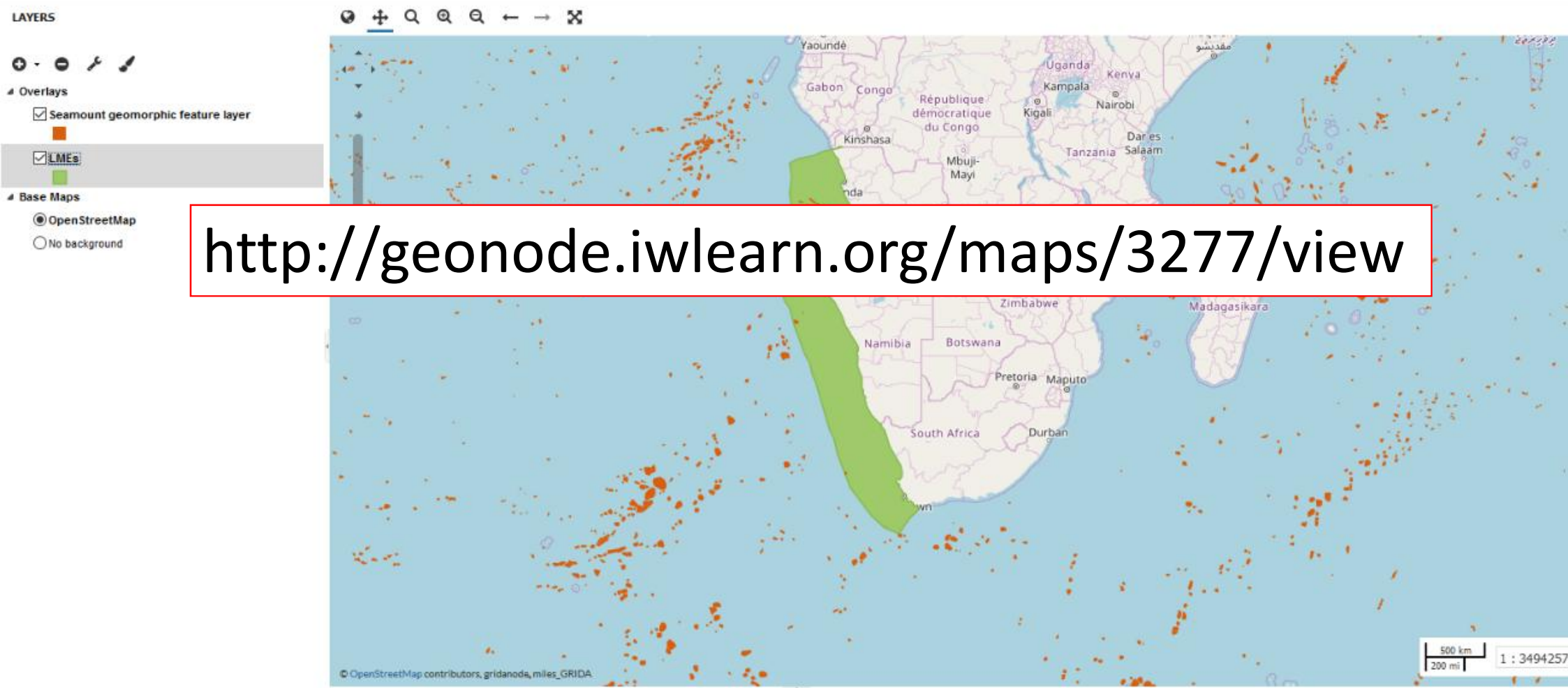
Metadata Detail

<http://geonode.iwlearn.org/maps/3277>

**Map Layers**  
This map uses the following layers:  
LMEs  
Seamount geomorphic feature layer

**Permissions**  
Specify which users can view or modify this map  
Change Permissions of this Map

**Copy this map**  
Duplicate this map and modify it for your own



<http://geonode.iwlearn.org/maps/3277/view>



- Publish map
- Save map

Available Styles

Display options

Opacity:

Format: image/png  Transparent

Single tile:  Use a single tile

Cache:  Use cached version

Info format: Select a format ▾

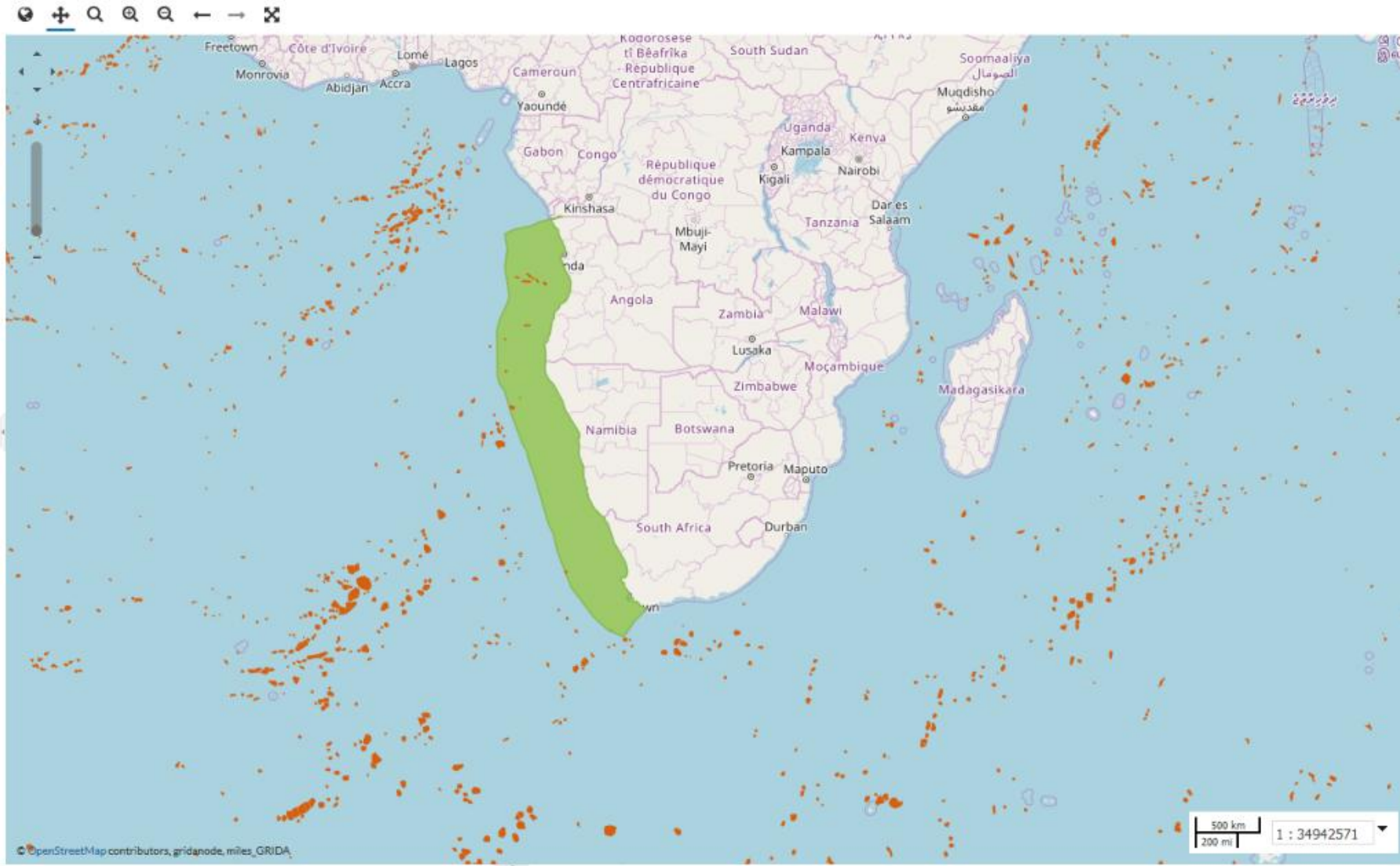
Limit with filters

Match any ▾ of the following:

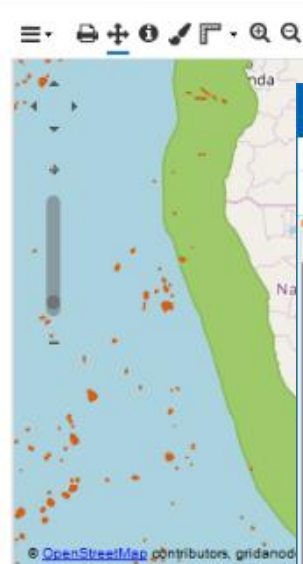
NAME ▾ = ▾ Benguela Current

add condition or use CQL filter instead

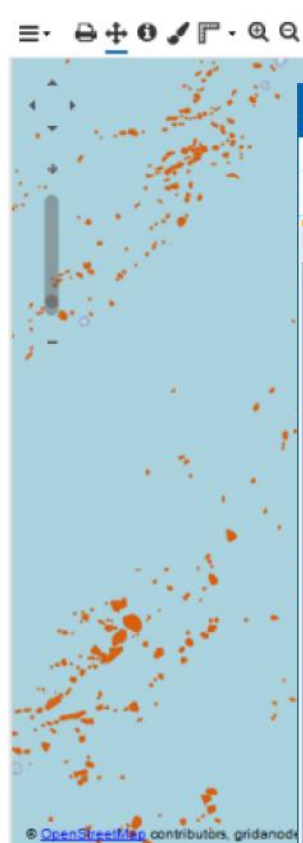
Limit by scale







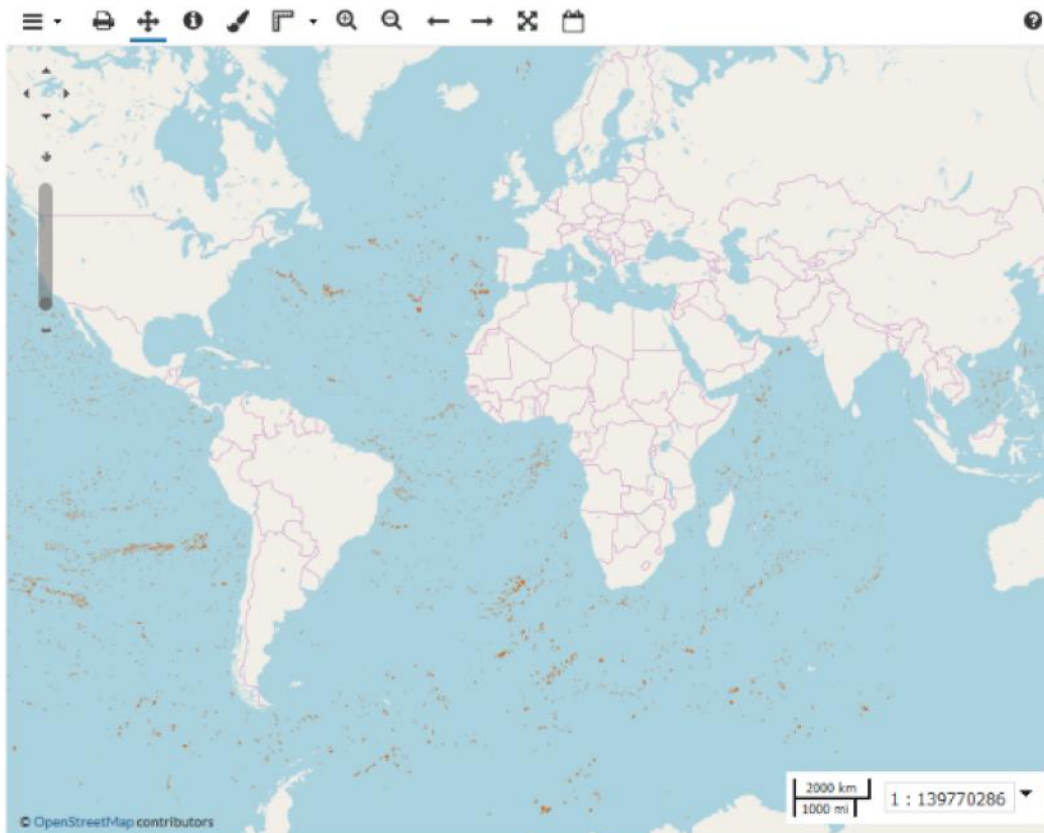
```
C:\Users\miles\Desktop\Cape Town\sample webpage.html - Notepad++  
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?  
sample webpage.html  
1 <!DOCTYPE html>CR LF  
2 <html>CR LF  
3 CR LF  
4 <head>CR LF  
5 <title>Sample Map</title>CR LF  
6 </head>CR LF  
7 CR LF  
8 <body>CR LF  
9 <iframe style="border: none;" height="400" width="600" src="http://geonode.iwlearn.org/maps/3277/embed"  
></iframe>CR LF  
10 </body>CR LF  
11 CR LF  
12 CR LF  
13 </html> |  
Hyper Text Markup Language file length : 220 lines : 13 Ln : 13 Col : 9 Sel : 0 | 0 Windows (CR LF) ANSI INS
```



```
*C:\Users\miles\Desktop\Cape Town\sample webpage.html - Notepad++  
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?  
sample webpage.html  
1 <!DOCTYPE html>CR LF  
2 <html>CR LF  
3 CR LF  
4 <head>CR LF  
5 <title>Sample Map</title>CR LF  
6 </head>CR LF  
7 CR LF  
8 <body>CR LF  
9 <iframe style="border: none;" height="600" width="800" src="http://geonode.iwlearn.org/maps/3277/embed"  
></iframe>CR LF  
10 </body>CR LF  
11 CR LF  
12 CR LF  
13 </html>  
Hyper Text Markup Language file length : 220 lines : 13 Ln : 13 Col : 9 Sel : 0 | 0 Windows (CR LF) ANSI INS
```



## Seamount geomorphic feature layer



Info Attributes Share Ratings Comments

Title Seamount geomorphic feature layer

Download Layer

Metadata Detail

Edit Layer

Download Metadata

### Legend

Seamounts

### Maps using this layer

List of maps using this layer:

[Benguela Current LME seamounts](#)

### Create a map using this layer

Click the button below to generate a new map based on this layer.

Create a Map

### Documents related to this layer

List of documents related to this layer:

[Seamount description](#)



Data ▾

Maps ▾

Search



miles\_GRIDA ▾

### Download Layer



Images

Data

Tiles

View in Google Earth

KML

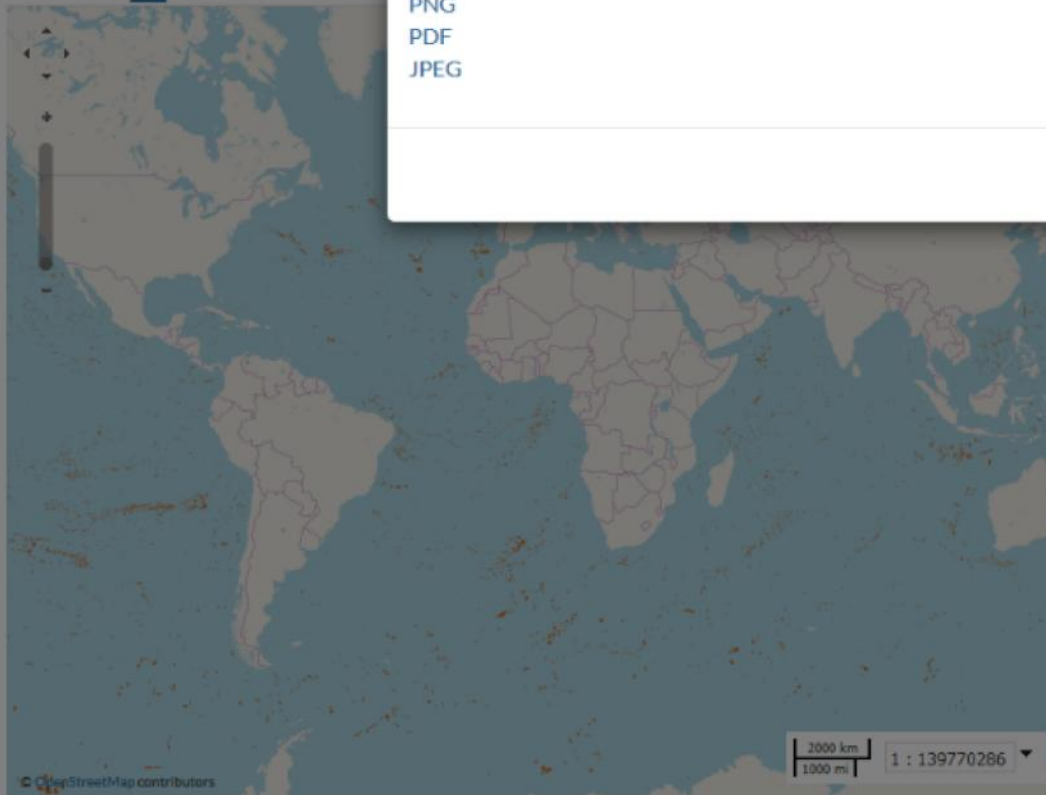
PNG

PDF

JPEG

Close

## Seamount geomor



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Download Layer

Metadata Detail

Edit Layer

Download Metadata

### Legend

Seamounts

### Maps using this layer

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Benguela Current LME seamounts

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### Documents related to this layer

List of documents related to this layer:

Seamount description

Info

Attributes

Share

Ratings

Comments

Title Seamount geomorphic feature layer



Data ▾

Maps ▾

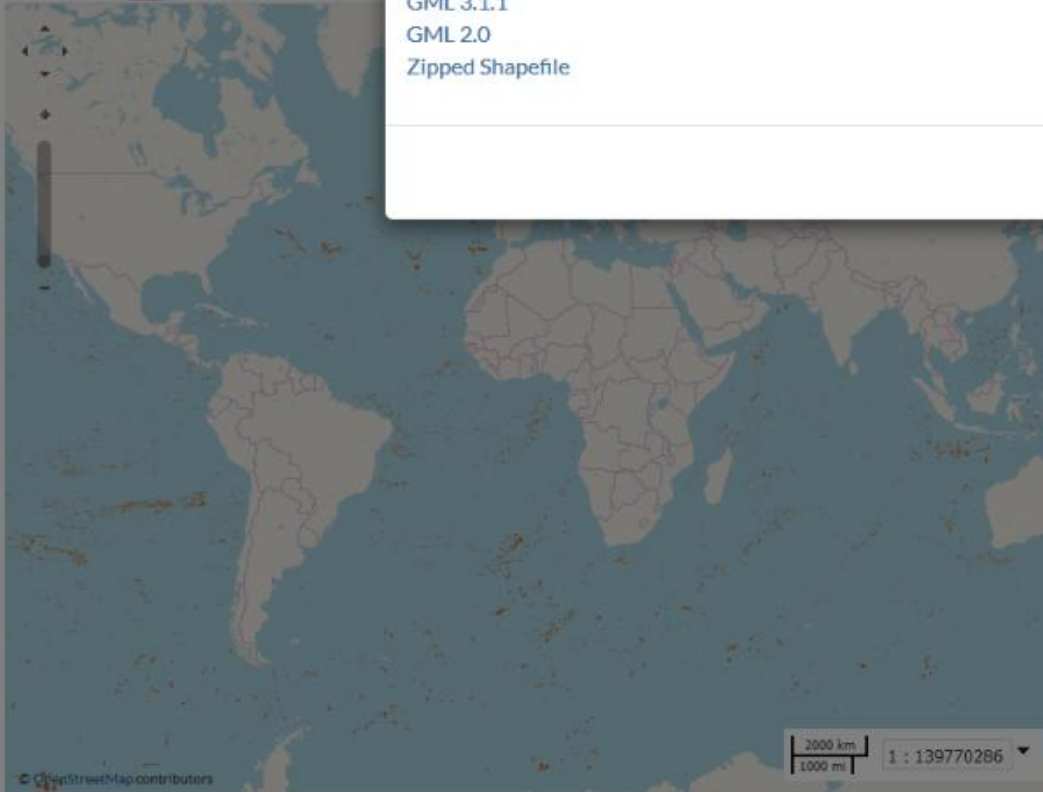
Search



miles\_GRIDA ▾

# Seamount geomorph

☰ · 🖨 · + · ⓘ · ✎ · 📏 · 🔍



© OpenStreetMap contributors

2000 km  
1000 mi

1 : 139770286 ▾

Info

Attributes

Share

Ratings

Comments

## Download Layer



Images

Data

GeoJSON

Excel

CSV

GML 3.1.1

GML 2.0

Zipped Shapefile

Close

Download Layer

Metadata Detail

Edit Layer

Download Metadata

## Legend

■ Seamounts

## Maps using this layer

List of maps using this layer:

Benguela Current LME seamounts

## Create a map using this layer

Click the button below to generate a new map based on this layer.

Create a Map

## Documents related to this layer

List of documents related to this layer:

Seamount description



Layers Panel

Seamount geomorphic fe...

Layers Panel | Browser Panel

The Layers Panel is located on the left side of the interface. It shows a list of loaded layers, with the top layer being 'Seamount geomorphic fe...'. Below the list are several icons for layer management, such as visibility, opacity, and layer order. At the bottom of the panel, there are tabs for 'Layers Panel' and 'Browser Panel'.

Processing Toolbox

Search...

- Recently used algorithms
  - Clip raster by extent
- GDAL/OGR [47 geospatial algorithms]
- GRASS GIS 7 commands [169 geospatial algorithms]
- Models [0 geospatial algorithms]
- QGIS geospatial algorithms [107 geospatial algorithms]
- SAGA (2.1.2) [235 geospatial algorithms]
- Scripts [0 geospatial algorithms]

You can add more algorithms to the toolbox, [enable additional providers](#), [close](#)

The Processing Toolbox is located on the right side of the interface. It contains a search bar and a list of available processing algorithms. The list is organized into categories, with 'Recently used algorithms' at the top. Below this, there are several categories of algorithms, including GDAL/OGR, GRASS GIS 7 commands, Models, QGIS geospatial algorithms, SAGA (2.1.2), and Scripts. At the bottom of the toolbox, there is a blue banner with text that reads 'You can add more algorithms to the toolbox, enable additional providers, close'.

What about non-spatial data?

# Non-spatial data

.doc .docx .gif .jpg .jpeg .ods .odt .odp .pdf .png .ppt .pptx .rar .sld .tif  
.tiff .txt .xls .xlsx .xml .zip .gz .qml

Links to external documents using URL

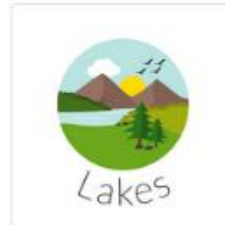
Link to maps and layers



# Welcome to IW:LEARN Spatial Lab

- Layers
- Documents
- Remote Services
- Upload Layer
- Upload Document**
- Add Remote Service

## Discover The IW:LEARN Spatial Datasets



## Search for Data.

Q Search

[Advanced Search](#)



# Upload Documents

Explore Documents

Allowed document types:

- .doc
- .docx
- .gif
- .jpg
- .jpeg
- .ods
- .odt
- .odp
- .pdf
- .png
- .ppt
- .pptx
- .rar
- .sld
- .tif
- .tiff
- .txt
- .xls
- .xlsx
- .xml
- .zip
- .gz
- .qml

Title:

Seamount description

name by which the cited resource is known

File:

Browse... Seamounts.pdf

URL:

The URL of the document if it is external.

Link to:

Seamount geomorphic feature layer

Upload

## Permissions

### Who can view it?

Anyone

The following users:

Choose users...

The following groups:

Choose groups...

### Who can download it?

### Who can change metadata for it?

Who can manage it? (update, delete, change permissions, publish/unpublish it)



## Edit Metadata

[Explore Documents](#)

Editing details for Seamount description

[Update](#)

**Owner**

✕ miles\_GRIDA

**Title**

Seamount description

**Date**

2017-11-28 07:51 AM 

**Date type**

Publication ▾

**Edition**

**Abstract**

No abstract provided

Need more information or  
support!

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