

IW:LEARN Spatial Lab training

Paris, France

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



Why is this important?

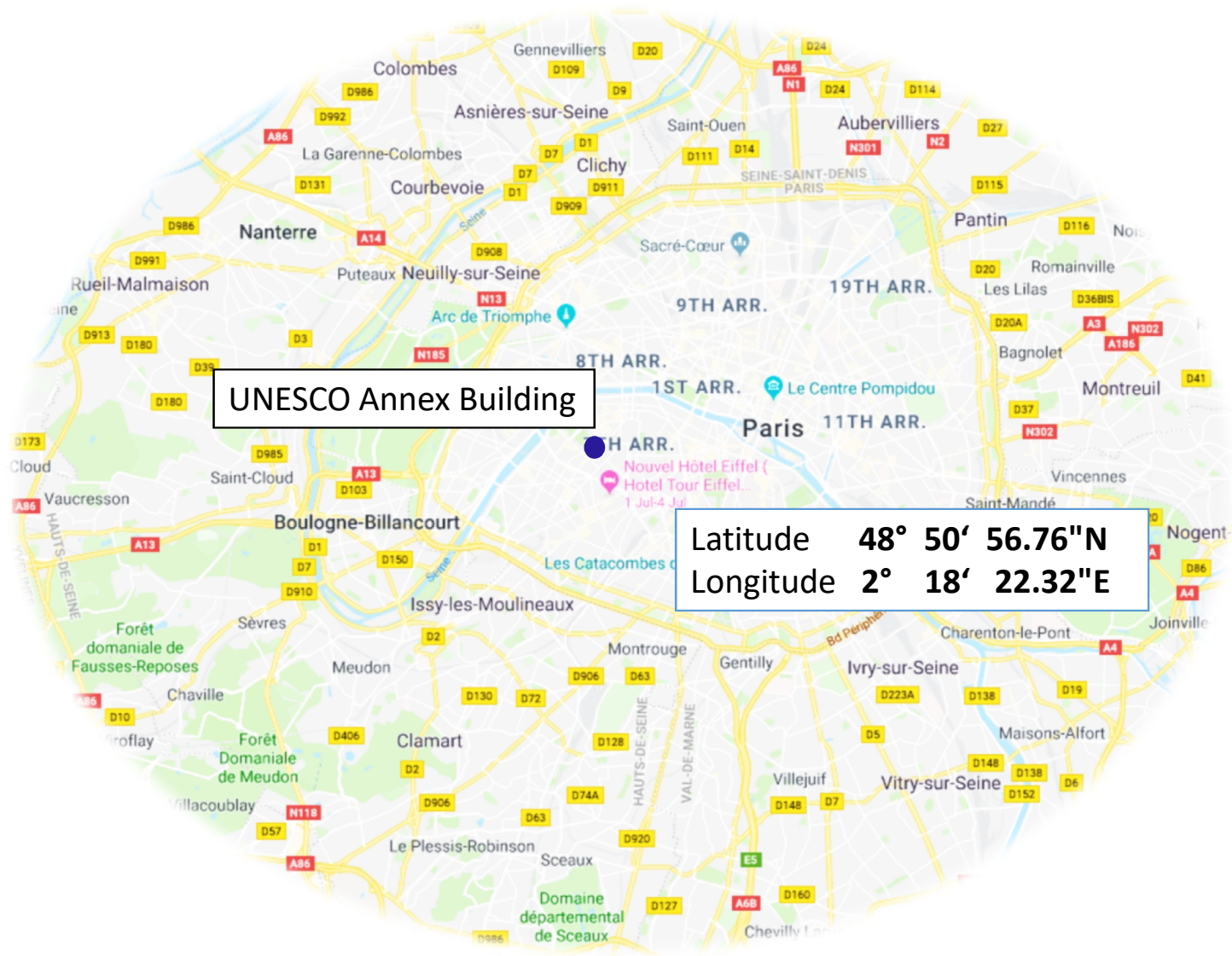
Principles of spatial data management

- 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
- Spatial data should be stored in an electronic, standard format
- All data collected in GEF IW projects should be open and accessible – collect once, use multiple times

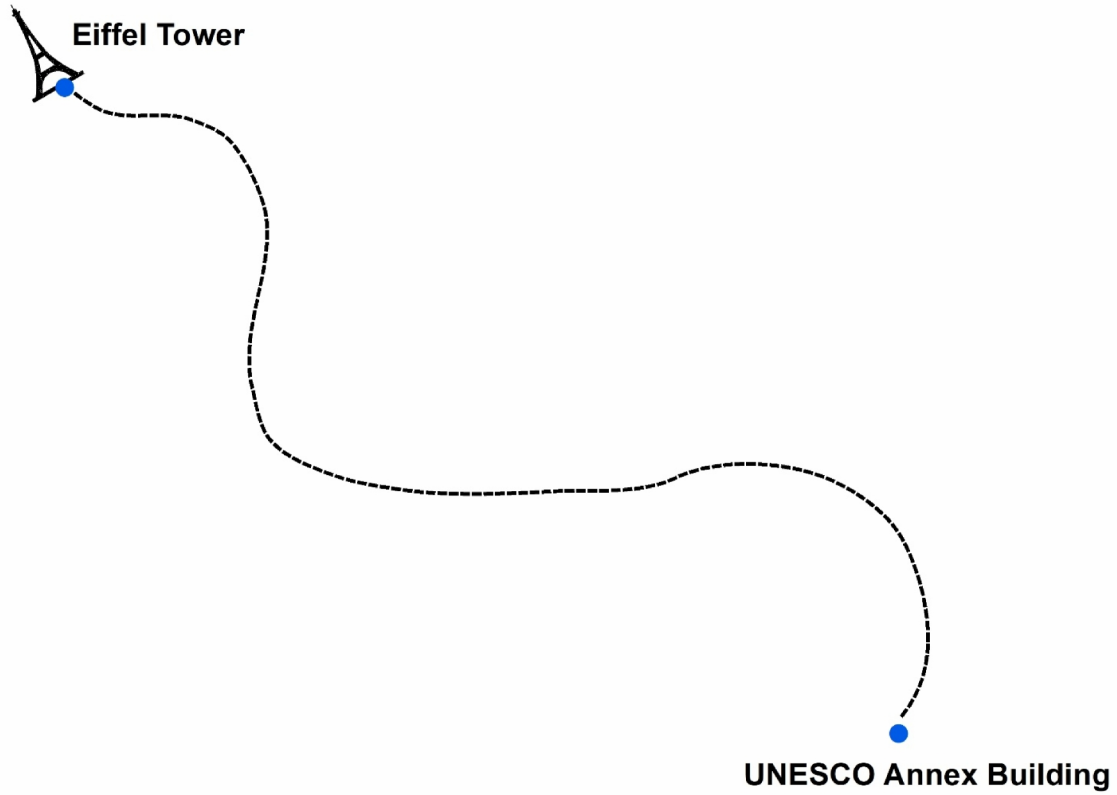
What is spatial data?

Spatial data is data that has a spatial reference

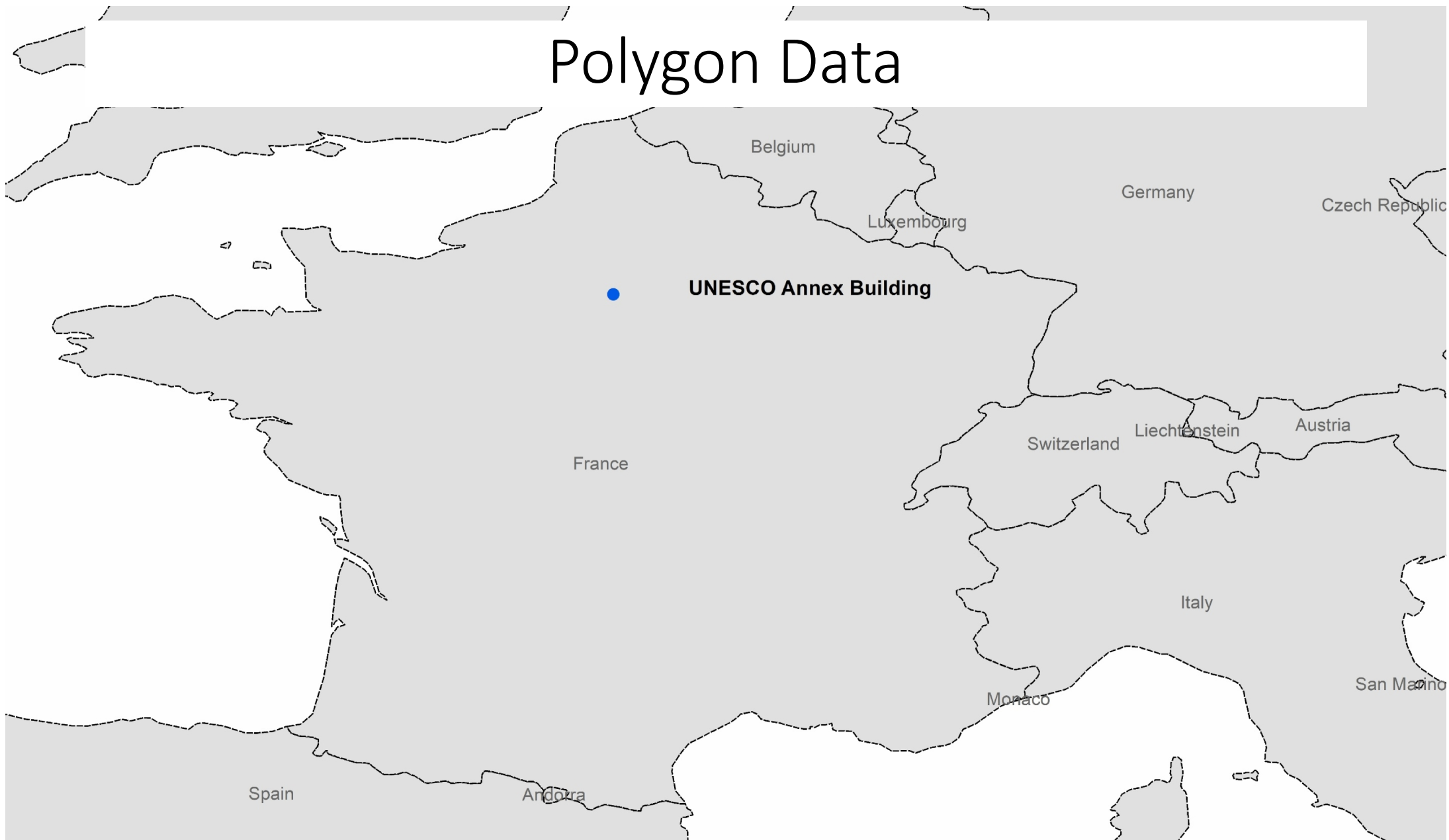
Point Data



Line Data



Polygon Data



Thematic Data

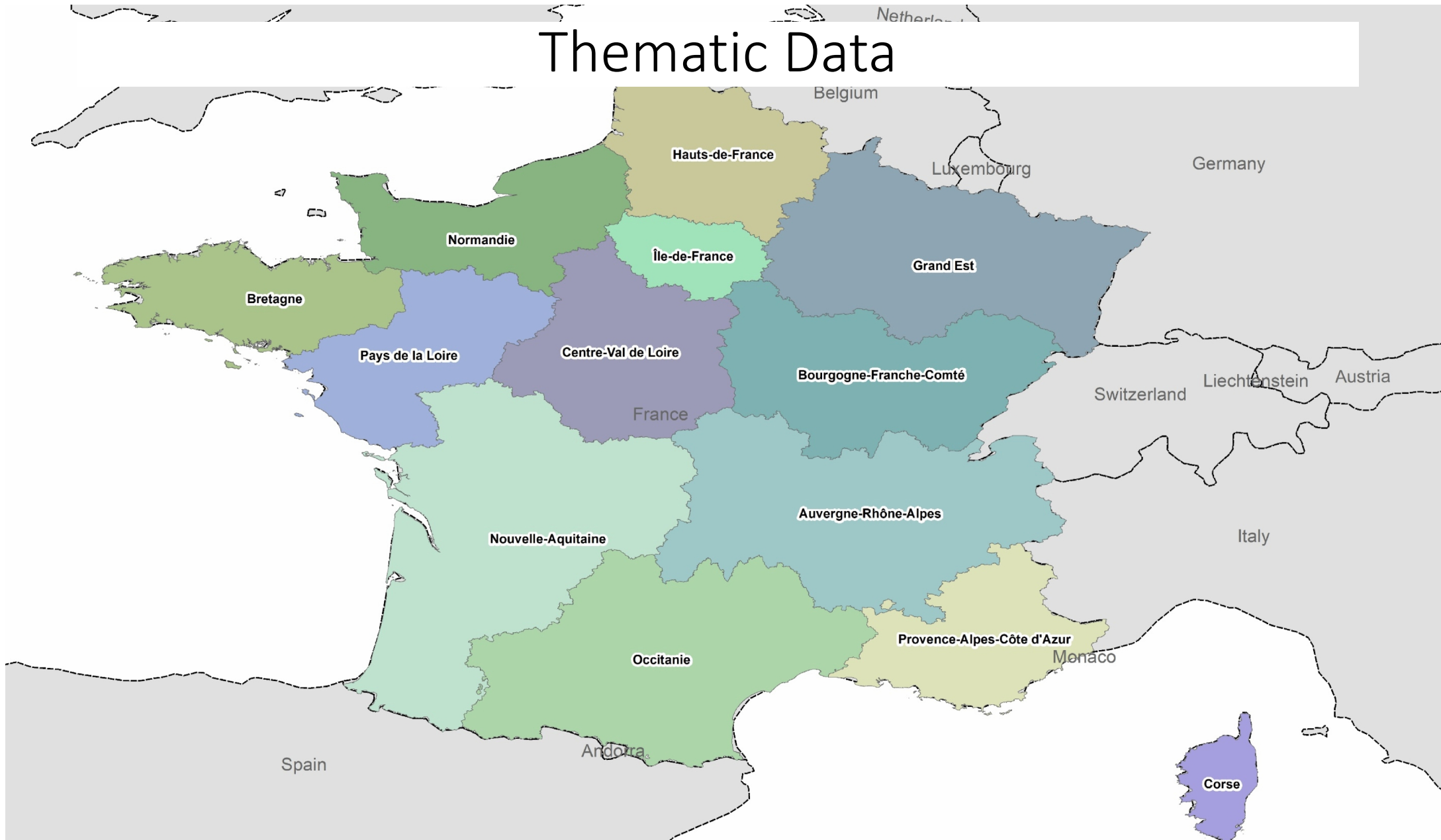
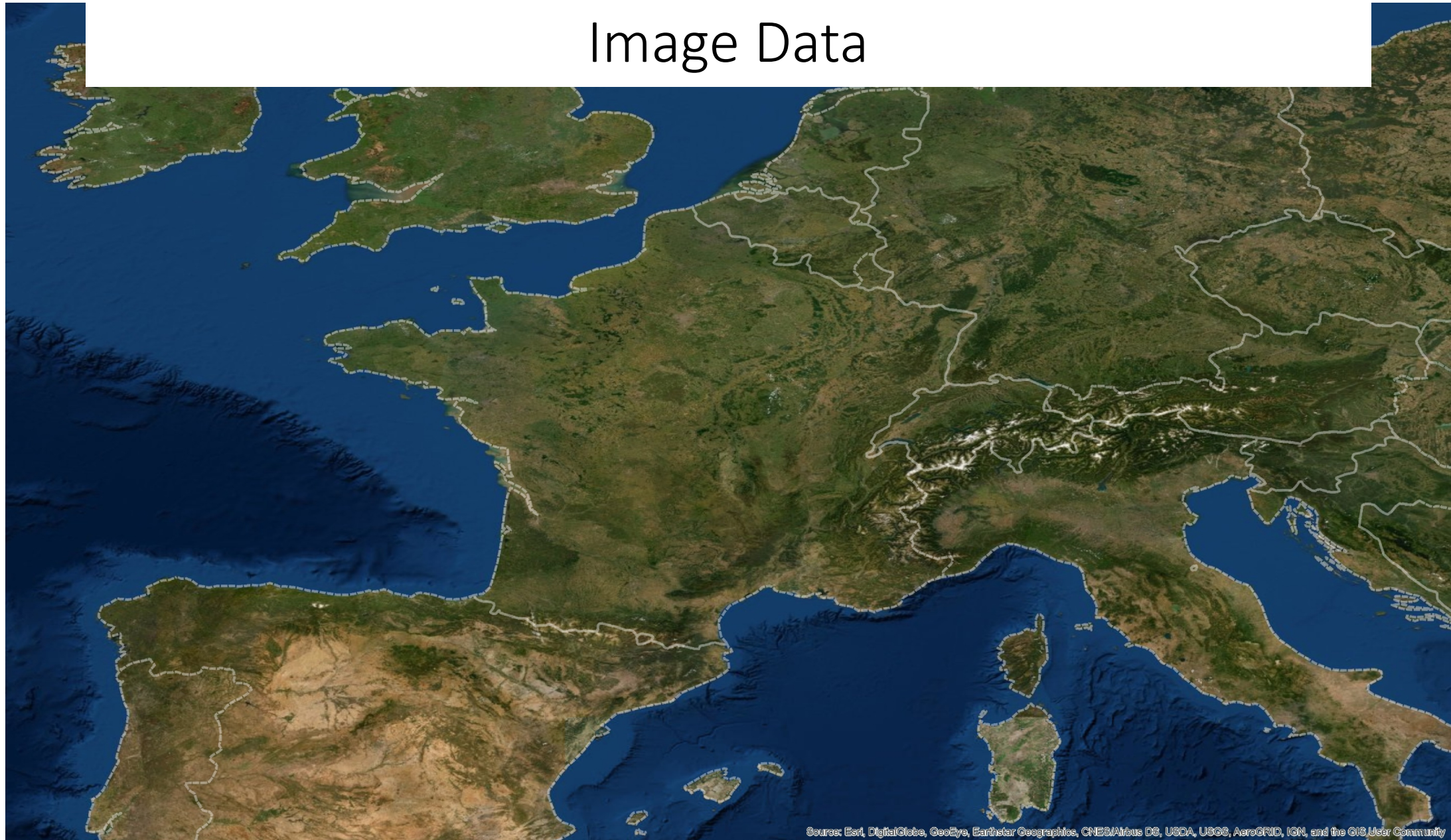
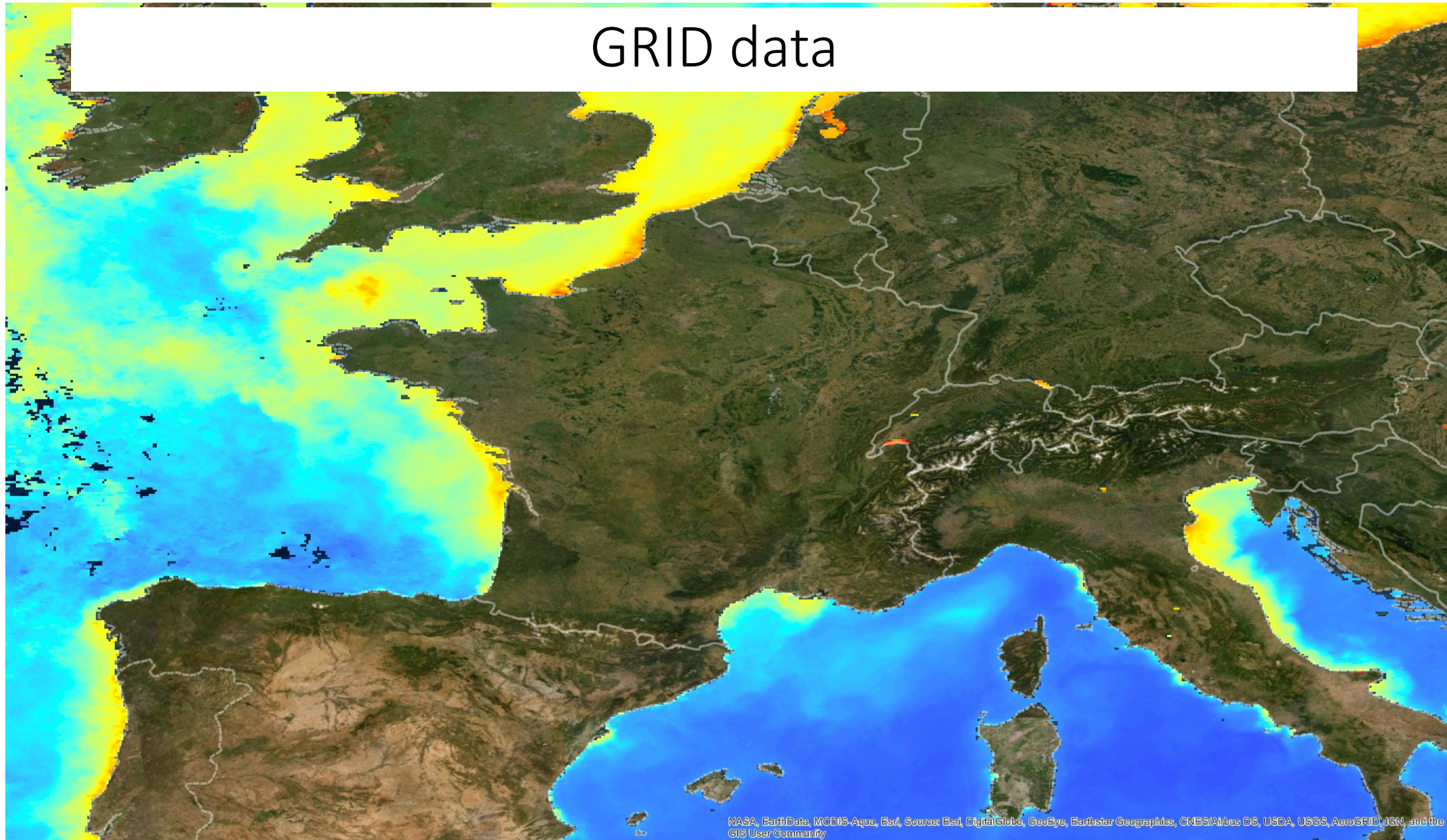


Image Data



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

GRID data



Data Category

A. Spatial Data

- Vector- Point, Line, Polygon
- Raster- Satellite Imagery, GRID Data, Scanned maps

B. Non-Spatial : All other associated data or information e.g.
Metadata, Attribute data

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



Data ▾

Maps

About ▾

Q Search

Register

Sign in

Welcome to IW:LEARN Spatial Lab

Discover The IW:LEARN Spatial Datasets



LME



Aquifers



River Basins



Lakes



Oceans



Others

<http://geonode.iwlearn.org>

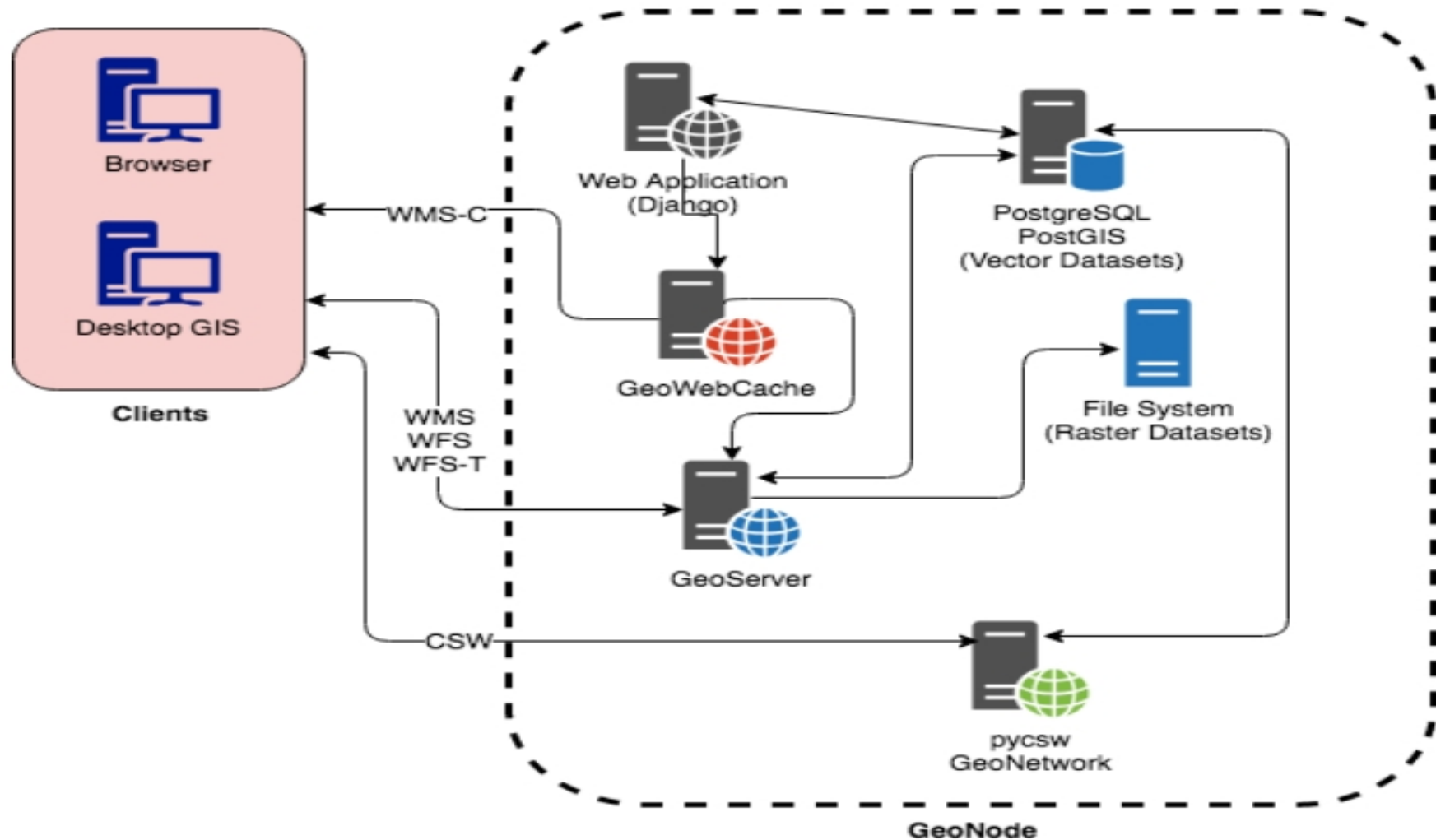
Search for Data.



Search

[Advanced Search](#)

GeoNode Architecture



What is IWLEARN Spatial Lab

- Built on GeoNode (www.geonode.org)
- Open Source Geospatial Content Management System
- Platform for the management and publication of geospatial data

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
- Create/Edit/Update Data

Creating an account



Data ▾

Maps

About ▾

Resources

Q Search

Register

Sign in

Welcome to IW:LEARN Spatial Lab

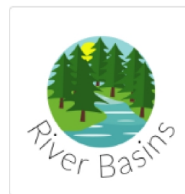
Discover The Spatial Dataset Theme



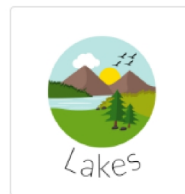
LME



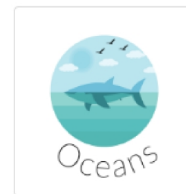
Aquifers



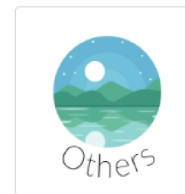
River Basins



Lakes



Oceans



Others

Discover The Project Datasets

Diktas

Albania

Baikal

Boasnia

Croatia

Ulanude

Montenegro

Global Nutrient Cycle



Sign up

Sign up

Username

geonodeuser

Password

••••••••

Password (again)

••••••••

Email

user@gmail.com

✓ I'm not a robot



Sign up

All entries must be fill in order to create a new user



Data
Layers
Documents

Maps
Explore Maps

About
People
Groups

Powered by GeoNode version 2.6.3
Developers | About

English ▾

IW:LEARN - GeoNode

+

Not secure | geonode.iwlearn.org

Google Earth TourNew TabBSNL Wire-line Self...havelock.co.inNew 5 In 1 3New 5...SHP StationsBSNL Portal -- Cell...keybr.com - Instruc...Challenges and Op...BookmarksIntranet - Login (Pal...Folder: /GRID- IntranetGeoNode - GRID-A...

IWgef

Data

Maps

About

Resources


Search

Register


Sign in

Welcome to IW:LEARN Spatial Lab


Discover The Spatial Dataset Theme




LME




Aquifers




River Basins



Lakes



Oceans



Others

Discover The Project Datasets

Diktas

Albania

Baikal

Boasnia

Croatia

Ulanude

Montenegro

Global Nutrient Cycle

Sign in

gridanode

.....

☐ Remember Me

Sign in



Data ▾ Maps ▾ About ▾

Search



miles_GRIDA ▾

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

Welcome to IW:LEARN Spatial

Discover The IW:LEARN Spatial Datasets



LME



Aquifers



River Basins



Lakes



Oceans



Others

Search for Data.



Search



Miles Macmillan-Lawler (miles_GRIDA)



Miles

Email miles.ma

Position Program

Organization GRID-Ar

Location NOR

Voice Not prov

Fax Not prov

Description Miles is t ent and spatial planning at GRID-Arden. He oversees the web development and visualisation components of the IWLEARN project.

Keywords

Marine Spatial Analysis Data IWLEARN



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 ▾

Q Search



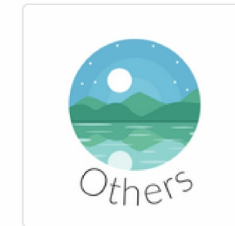
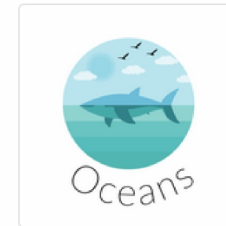
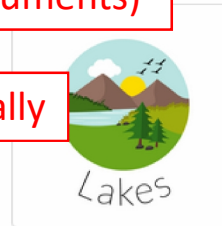
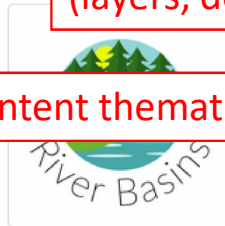
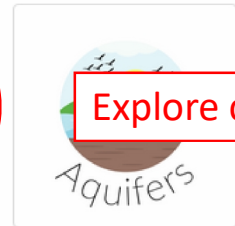
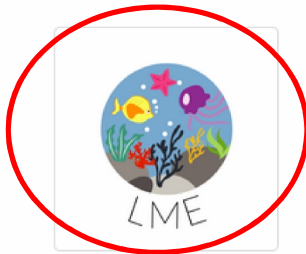
miles_GRIDA ▾

Explore existing maps and remote services
View
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



Data ▾

Maps ▾

About ▾

Q Search



miles_GRIDA ▾

Layers

Documents

Remote Services

Upload Layer

Upload Document

Add Remote Service

Welcome to IW:LEARN Spatial Lab

Discover The IW:LEARN Spatial Datasets



LME



Aquifers



River Basins



Lakes



Oceans



Others

Search for Data.



Search

[Advanced Search](#)



Upload Layers

Explore Layers



Drop files here

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



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](#)

Preserve Metadata ☒

Permissions

Who can view it?

☒ Anyone

The following users:

Choose users...

The following groups:

Who can edit styles for this layer?

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

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



Data ▾

Maps ▾

About ▾

Q Search



miles_GRIDA ▾



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)



Data ▾

Maps ▾

About ▾

Q Search



miles_GRIDA ▾



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



Layers
Documents
Remote Services

Upload Layer
Upload Document
Add Remote Service

Welcome to IW:LEARN Spatial Lab

Discover The IW:LEARN Spatial Datasets



LME



Aquifers



River Basins



Lakes



Oceans



Others

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



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

Metadata

Metadata is not a dirty word

- Describes the data about 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

[Data](#) ▾[Maps](#) ▾[About](#) ▾[miles_GRIDA](#) ▾

Upload Layers

[Explore Layers](#)

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](#)

Preserve Metadata ☒

Permissions

Who can view it?

☒ Anyone

The following users:

The following 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)

[Data](#) ▾[Maps](#) ▾[About](#) ▾[miles_GRIDA](#) ▾

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

Date



Date type



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. The layer is one of the 25 layers that make up the global seafloor geomorphic features map



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

[Data](#) ▾[Maps](#) ▾[About](#) ▾[miles_GRIDA](#) ▾

Upload Layers

[Explore Layers](#)

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](#)

Preserve Metadata ☒

Permissions

Who can view it?

☒ Anyone

The following users:

The following 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 ▾

...

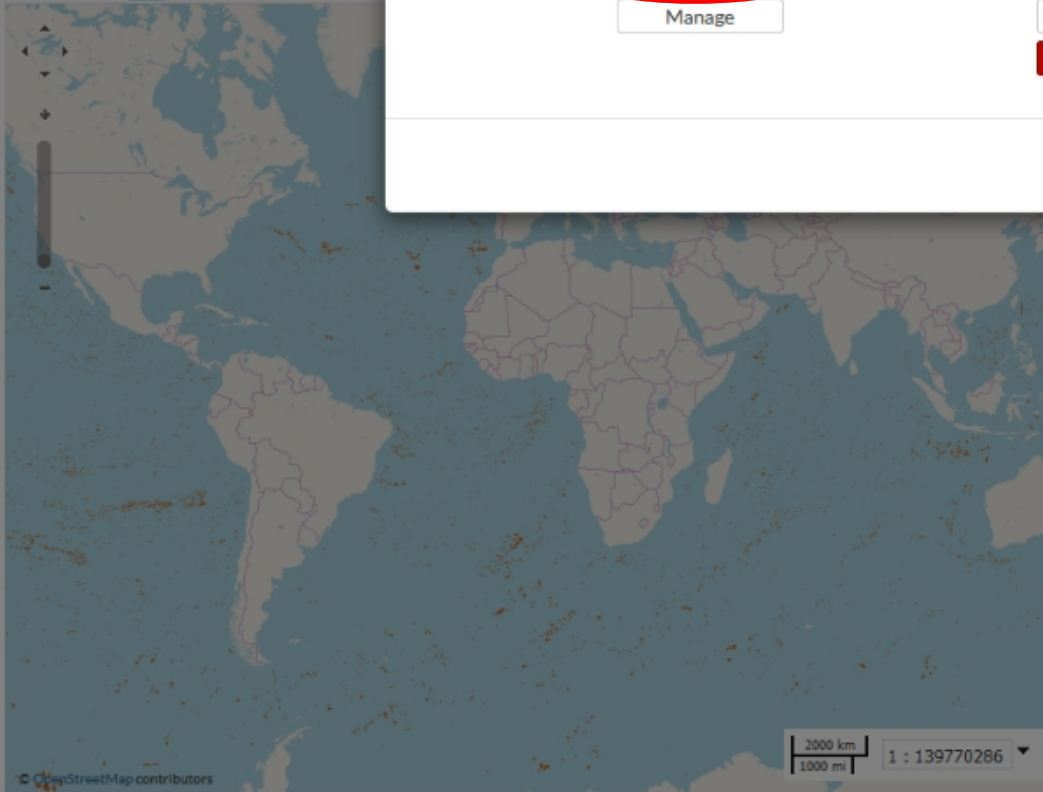
Search



miles_GRIDA ▾

Seamount geomor

Menu icons: list, print, add, info, edit, full screen, search



© OpenStreetMap contributors

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

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.

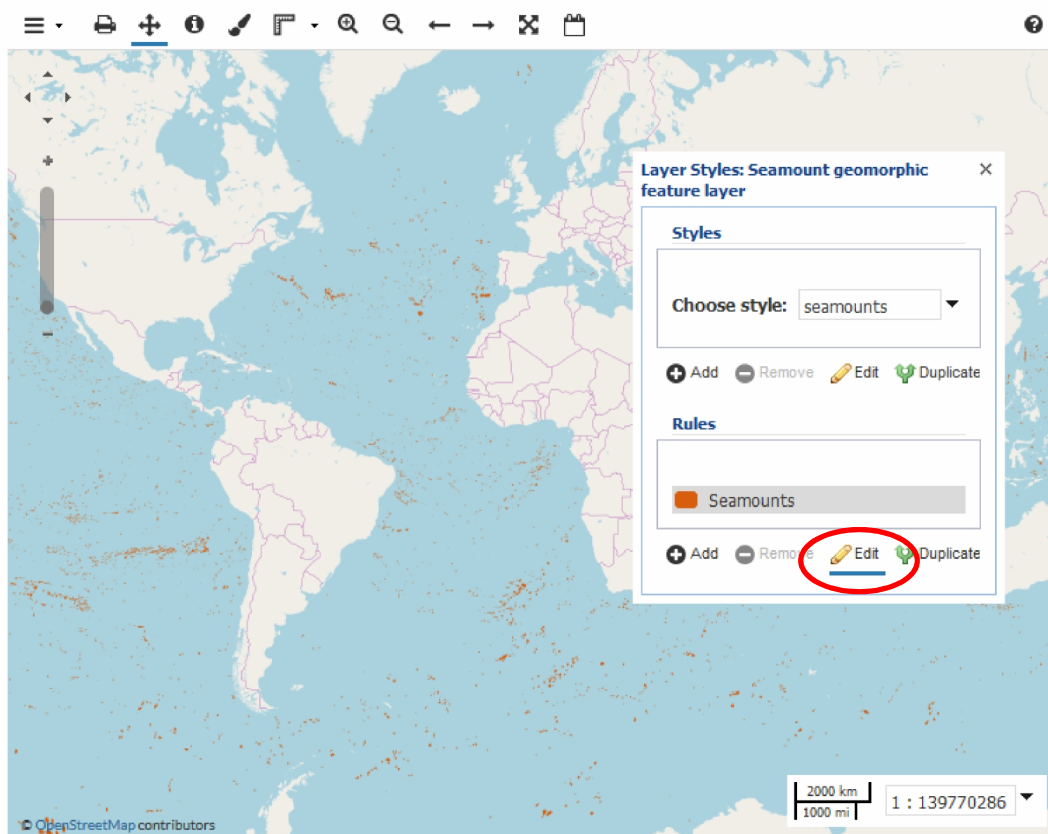
Create a Map

Styles

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



Seamount geomorphic feature layer



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



Seamount geomorphic feature layer

Info

Attributes

Share

Ratings

Comments

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


Making a map



Data ▾

Maps ▾

About ▾

 Search



miles_GRIDA ▾

Explore Maps

Create Map

Welcome to IW:LEARN Spatial Lab

Discover The IW:LEARN Spatial Datasets



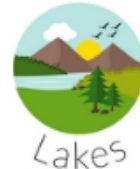
LME



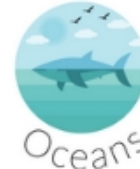
Aquifers



River Basins



Lakes



Oceans



Others

Search for Data.

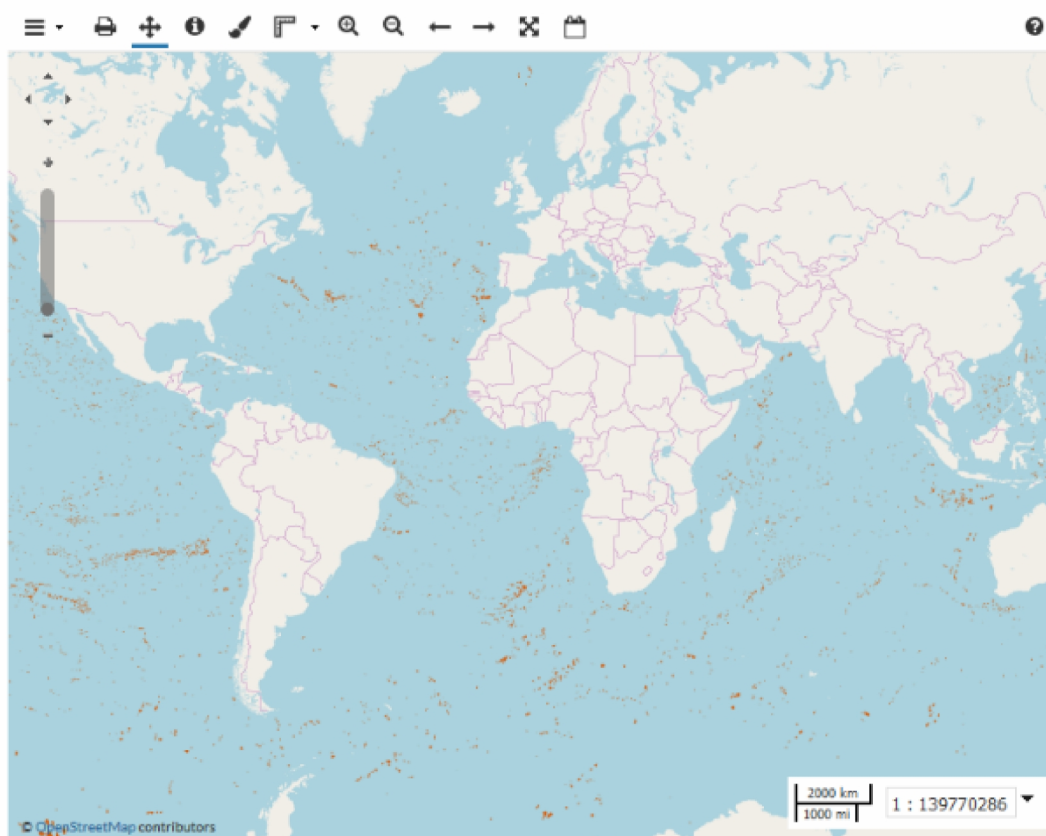


Search

[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



Data ▾ Maps ▾ About ▾

Q Search

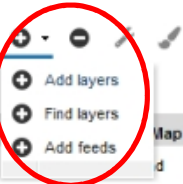


miles_GRIDA ▾

Map ▾ Print Identify Query Measure ▾ Edit ▾

Maps / This map is currently unsaved

LAYERS



© OpenStreetMap contributors

1000 km
1000 mi
1 : 69885143 ▾



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:iw_aq...
+ iw_river_line	geonode:iw_riv...
+ Transboundary lakes	geonode:iwl_la...
+ iw_oceans_polygon	geonode:iwl_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





Data ▾ Maps ▾ About ▾

Q Search



miles_GRIDA ▾

Map ▾ Print Identify Query Measure ▾ Edit ▾

Maps / This map is currently unsaved

LAYERS



Overlays

☒ Seamount geomorphic feature layer



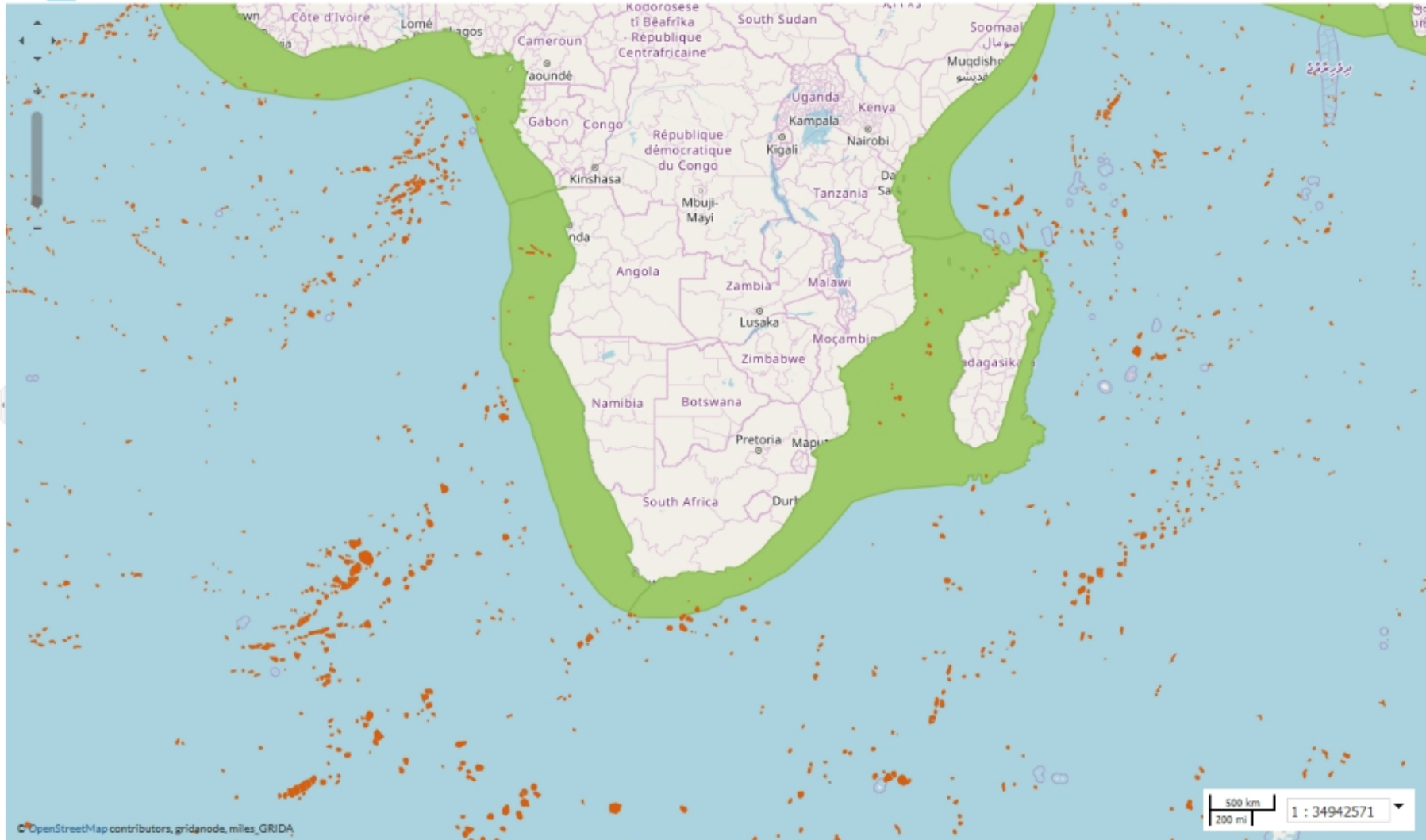
☒ LMEs



Base Maps

☒ OpenStreetMap

☐ No background



© OpenStreetMap contributors, gridanode, miles_GRIDA

500 km
200 mi
1 : 34942571



LAYERS



Overlays

☒ Seamount geomorphic feature layer



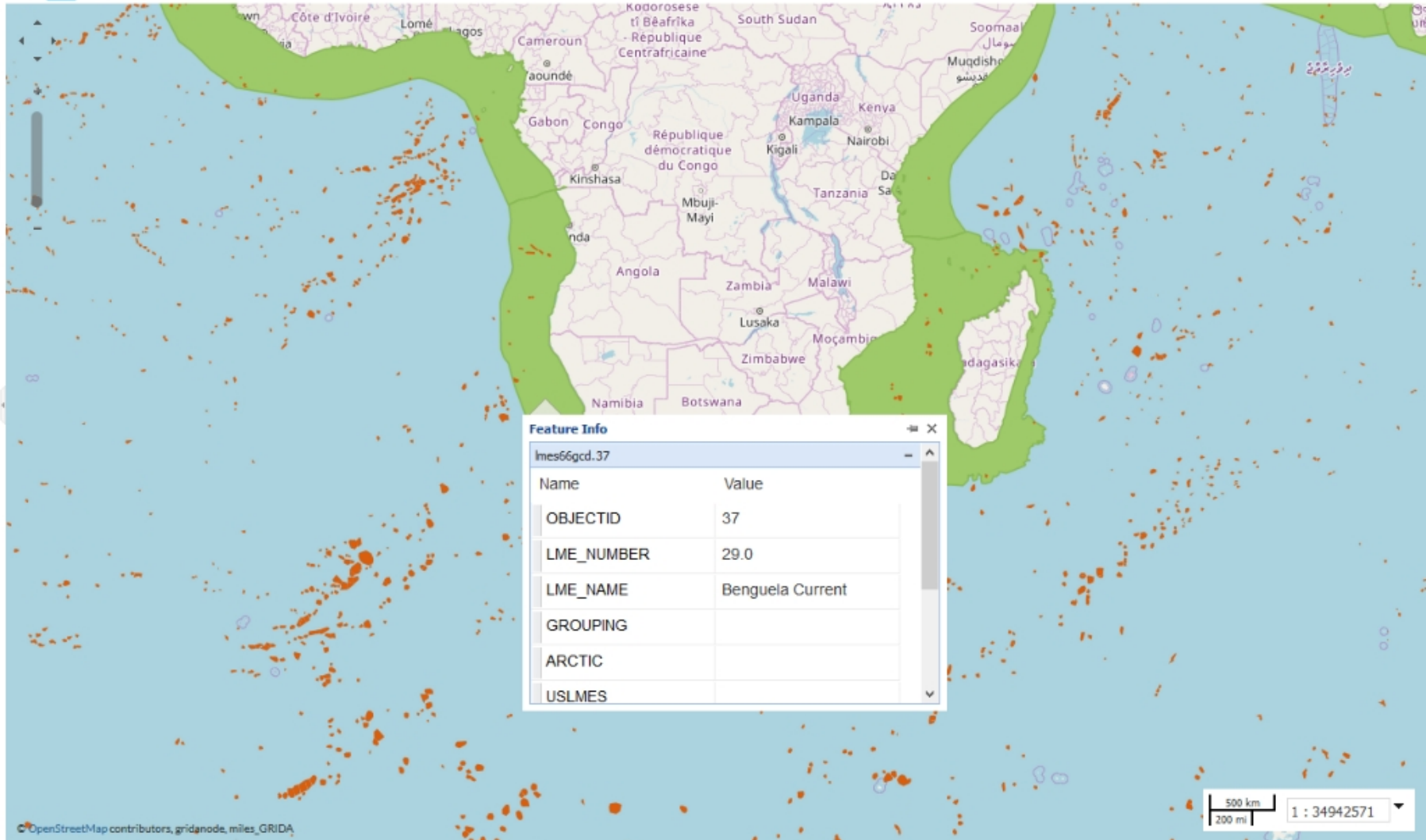
☒ LMEs



Base Maps

☒ OpenStreetMap

☐ No background





LAYERS



Overlays

☒ Seamount geomorphic feature layer



☒ LMEs

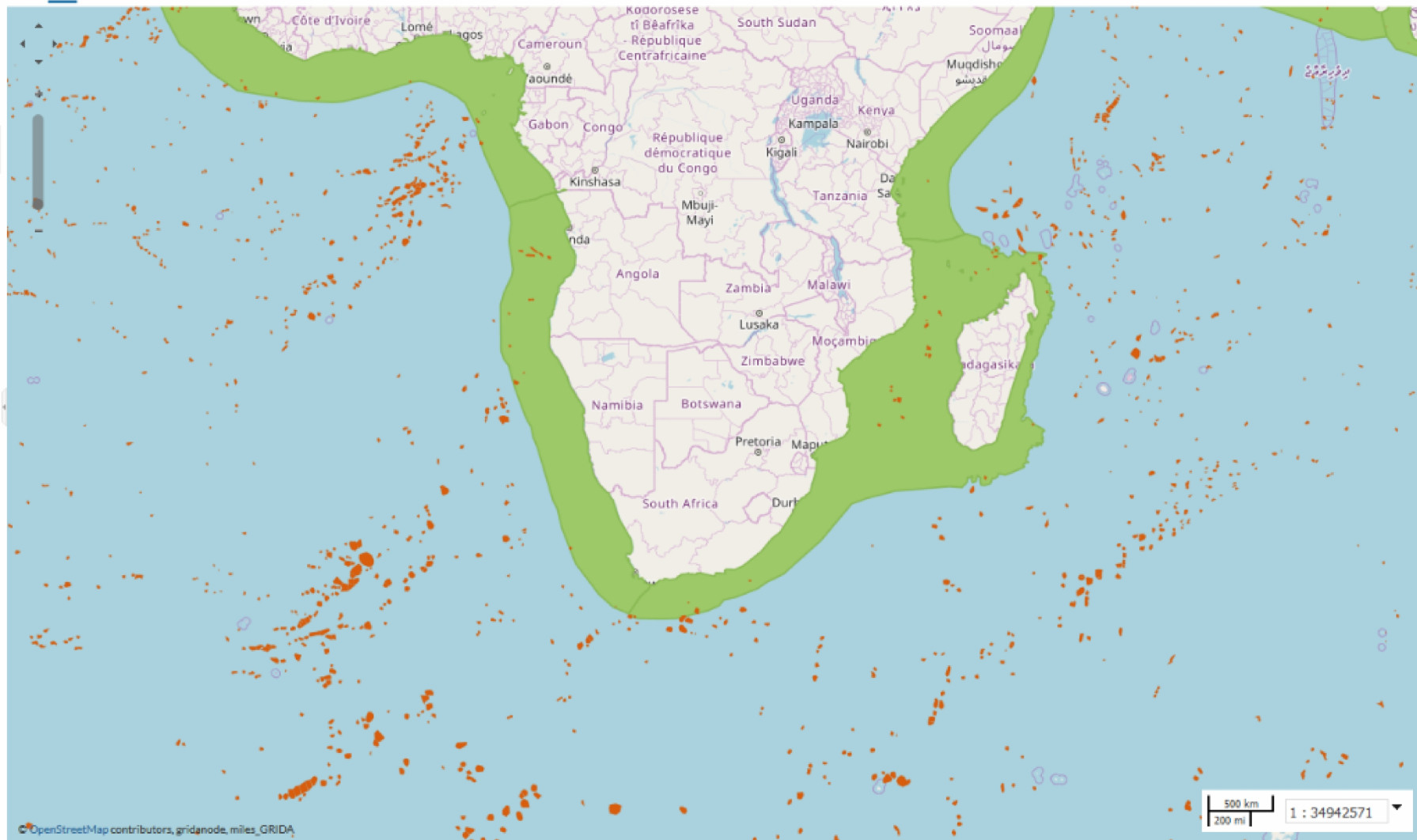


Base Maps

☒ 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: ☒ Transparent

Single tile: ☐ Use a single tile

Cache: ☒ Use cached version

Info format:

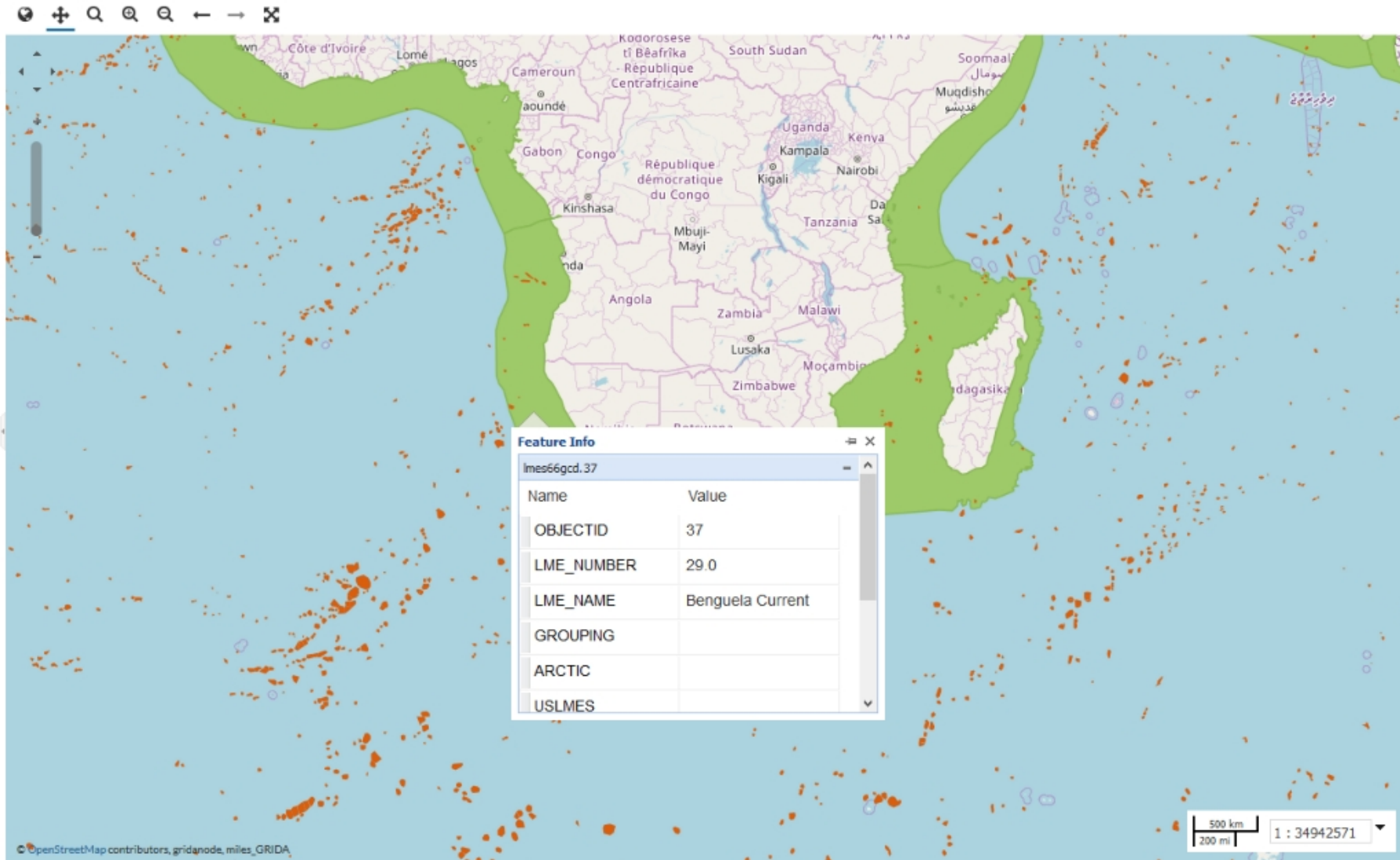
☒ Limit with filters

Match of the following:

☒ NAME

or

☐ Limit by scale





LAYERS » LMES

About DISPLAY Available Styles

Display options

Opacity:

Format: ☒ Transparent

Single tile: ☐ Use a single tile

Cache: ☒ Use cached version

Info format:

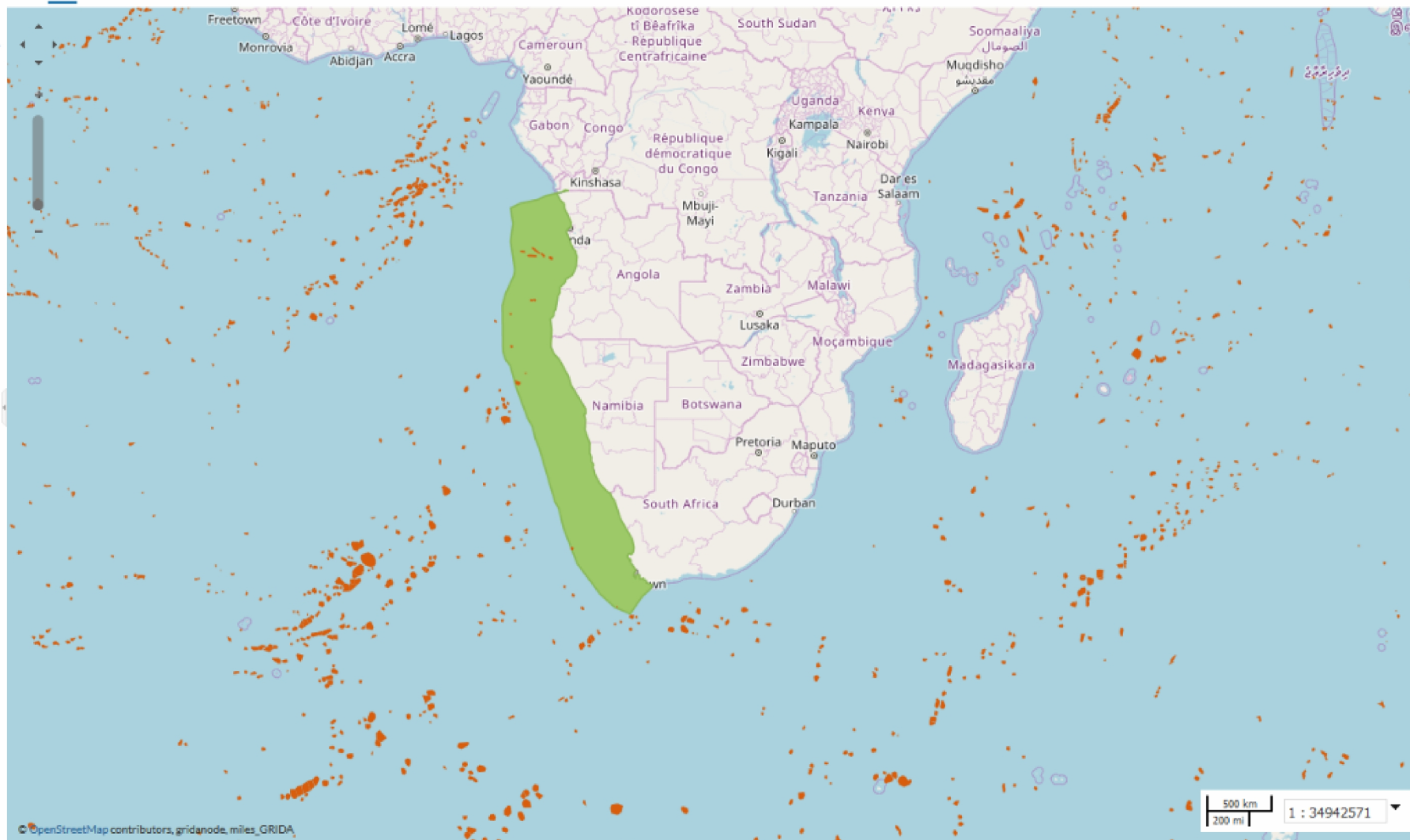
☒ Limit with filters

Match of the following:

☒ NAME =

or

☐ Limit by scale



Saving, sharing and publishing a
map



Data ▾ Maps ▾ About ▾

Q Search



miles_GRIDA ▾

Map ▾ Print Identify Query Measure ▾ Edit ▾

Maps / This map is currently unsaved

→ Publish map

Save map

Available Styles

Display options

Opacity:

Format: ☒ Transparent

Single tile: ☐ Use a single tile

Cache: ☒ Use cached version

Info format:

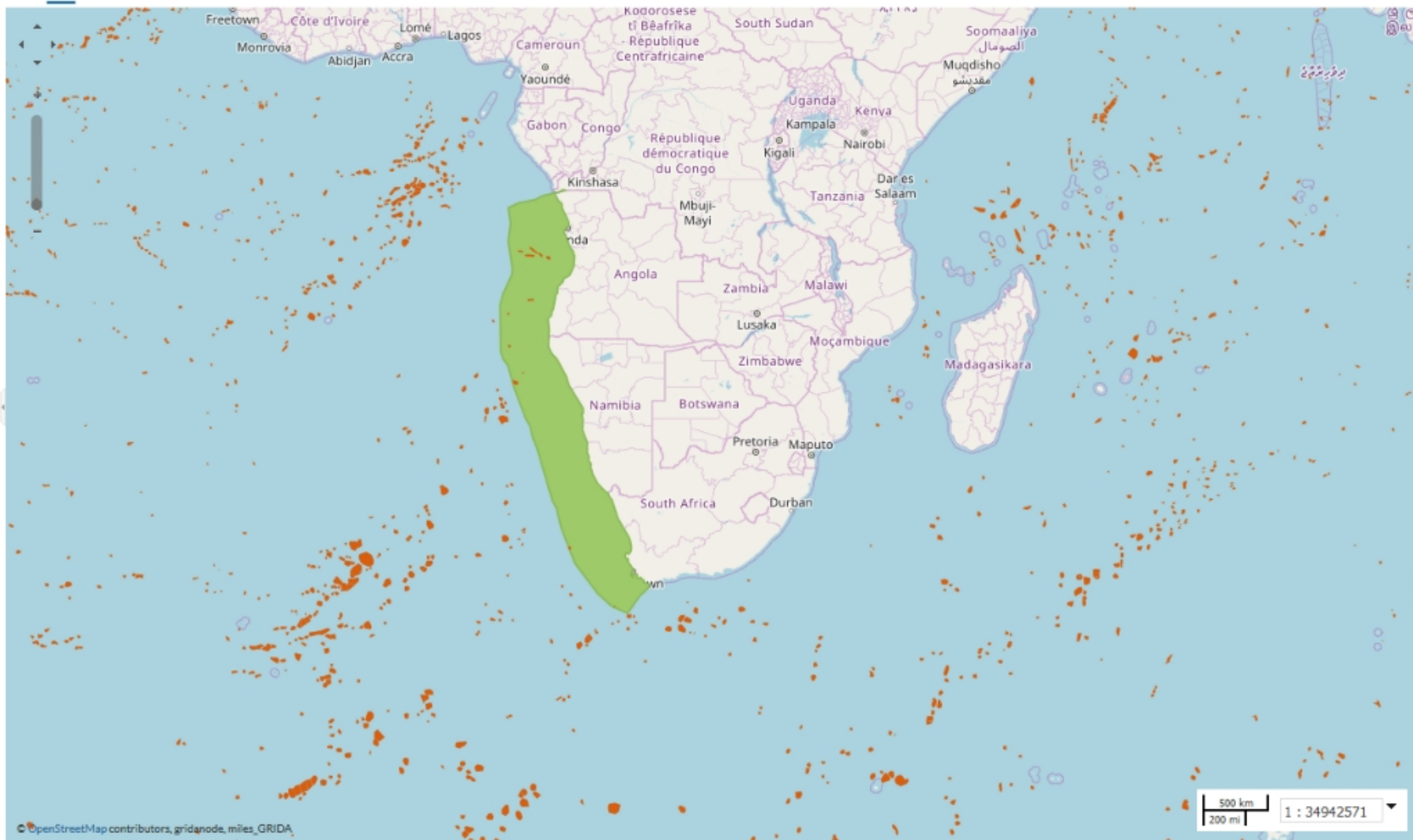
☒ Limit with filters

Match of the following:

☒ NAME

☒ add condition or use CQL filter instead

☐ Limit by scale



© OpenStreetMap contributors, gridanode, miles_GRIDA



LAYERS ▸ LMEs

About DISPLAY Available Styles

Display options

Opacity:

Format: ☒ Transparent

Single tile: ☐ Use a single tile

Cache: ☒ Use cached version

Info format:

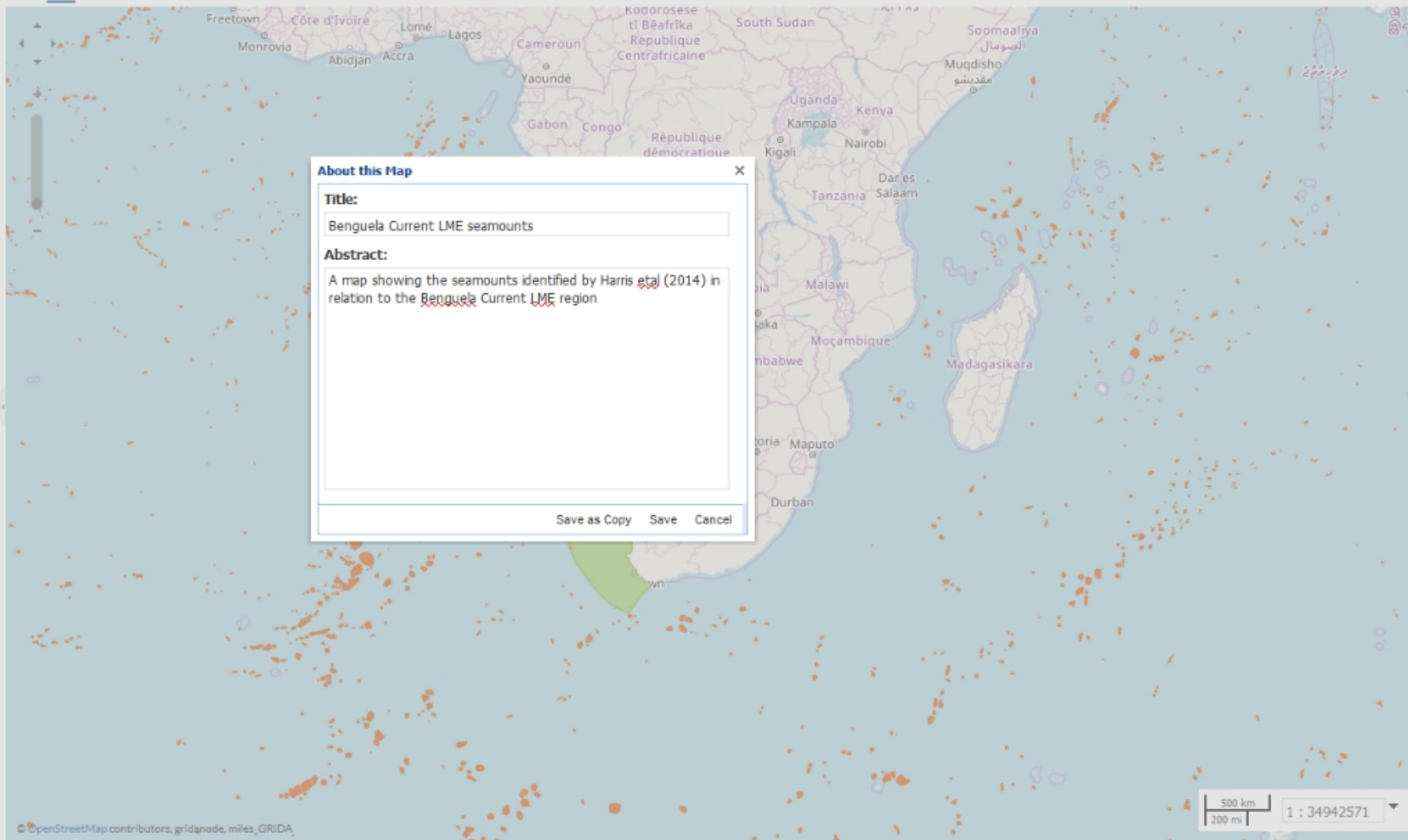
☒ Limit with filters

Match of the following:

☒ NAME

☐ add condition or use CQL filter instead

☐ Limit by scale



About this Map

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 et al (2014) in relation to the Benguela Current LME region

miles_GRIDA

28 Nov 2017

0

0

0

View Map



2

0

0



nor

data

gridapublisher

19 Nov 2017

1

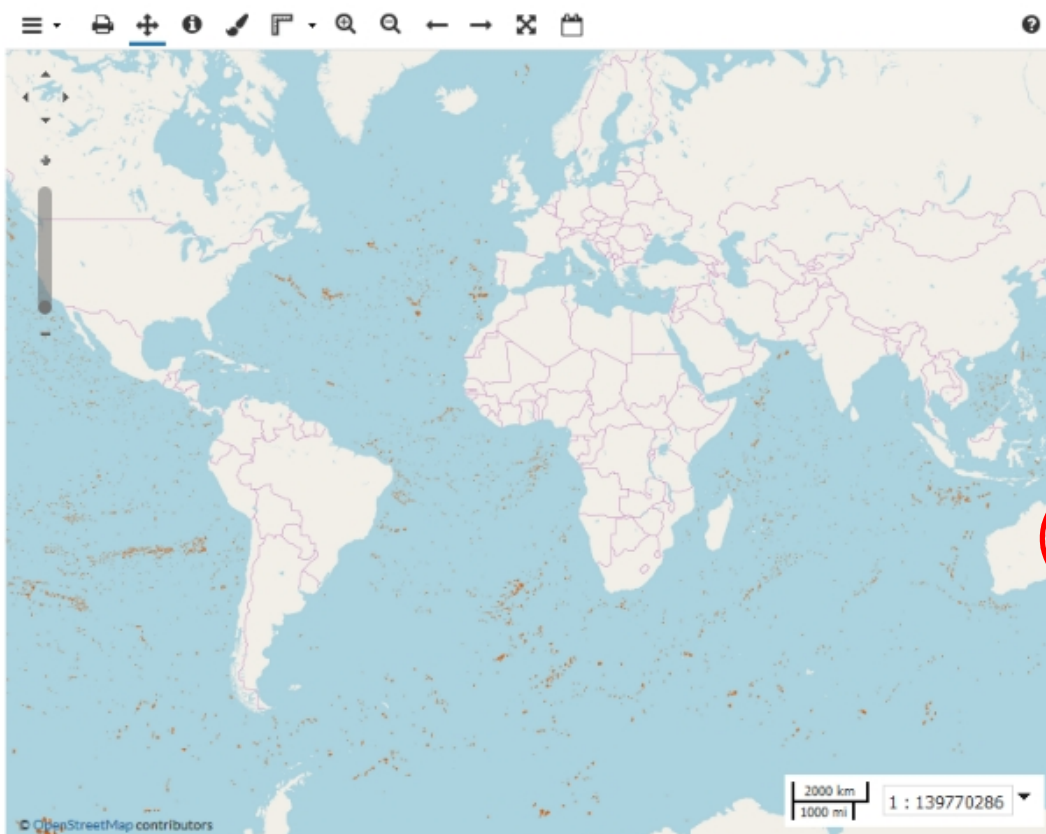
0

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



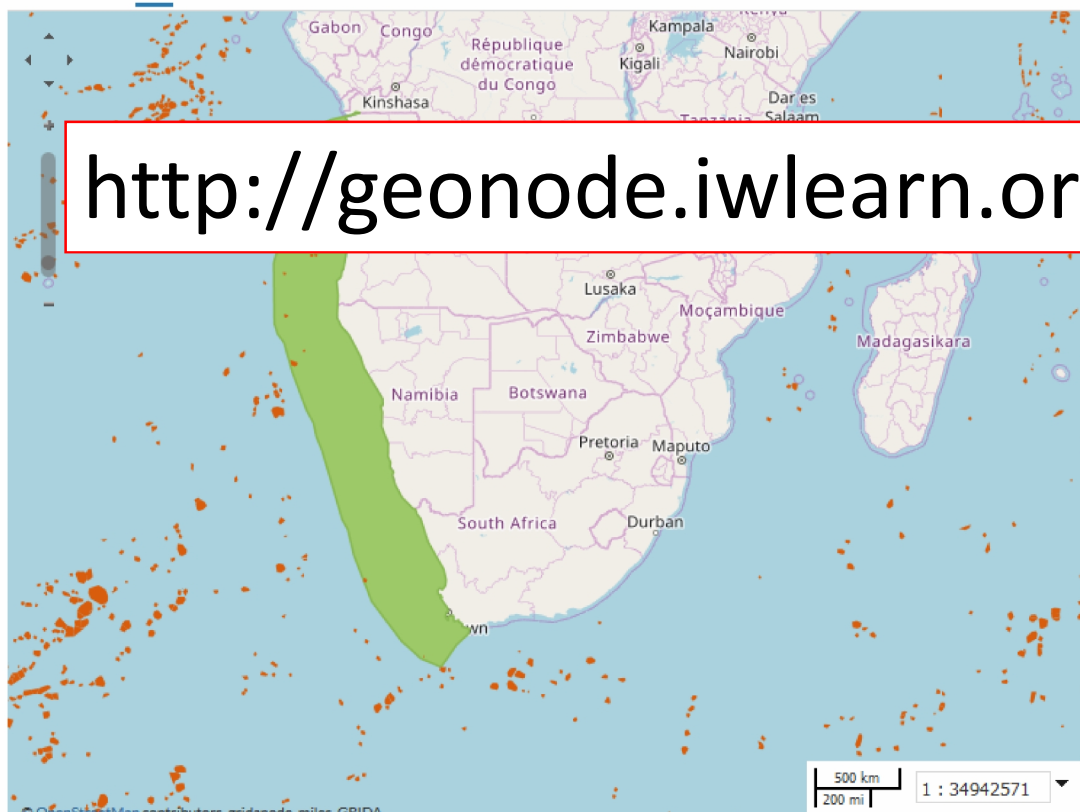
Data Maps About

Search



miles_GRIDA

Benguela Current LME seamounts



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

Download Map

Metadata Detail

View Map

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

Map - GeoNode

geonode.iwlearn.org/maps/3277/view

IW gef Data Maps About

Search miles_GRIDA

Map Print Identify Query Measure Edit

Map / Benguela Current LME sea

LAYERS

Overlays

- ☒ Seamount geomorphic feature layer
- ☒ LMEs

Base Maps

- ☒ OpenStreetMap
- ☐ No background

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

500 km 200 mi 1 : 3494257

© OpenStreetMap contributors, gridanoda, miles_GRIDA



Data ▾ Maps ▾ About ▾

Q Search



miles_GRIDA ▾

Map ▾ Print Identify Query Measure ▾ Edit ▾

Maps / This map is currently unsaved

→ Publish map

Save map

Available Styles

Display options

Opacity:

Format: ☒ Transparent

Single tile: ☐ Use a single tile

Cache: ☒ Use cached version

Info format:

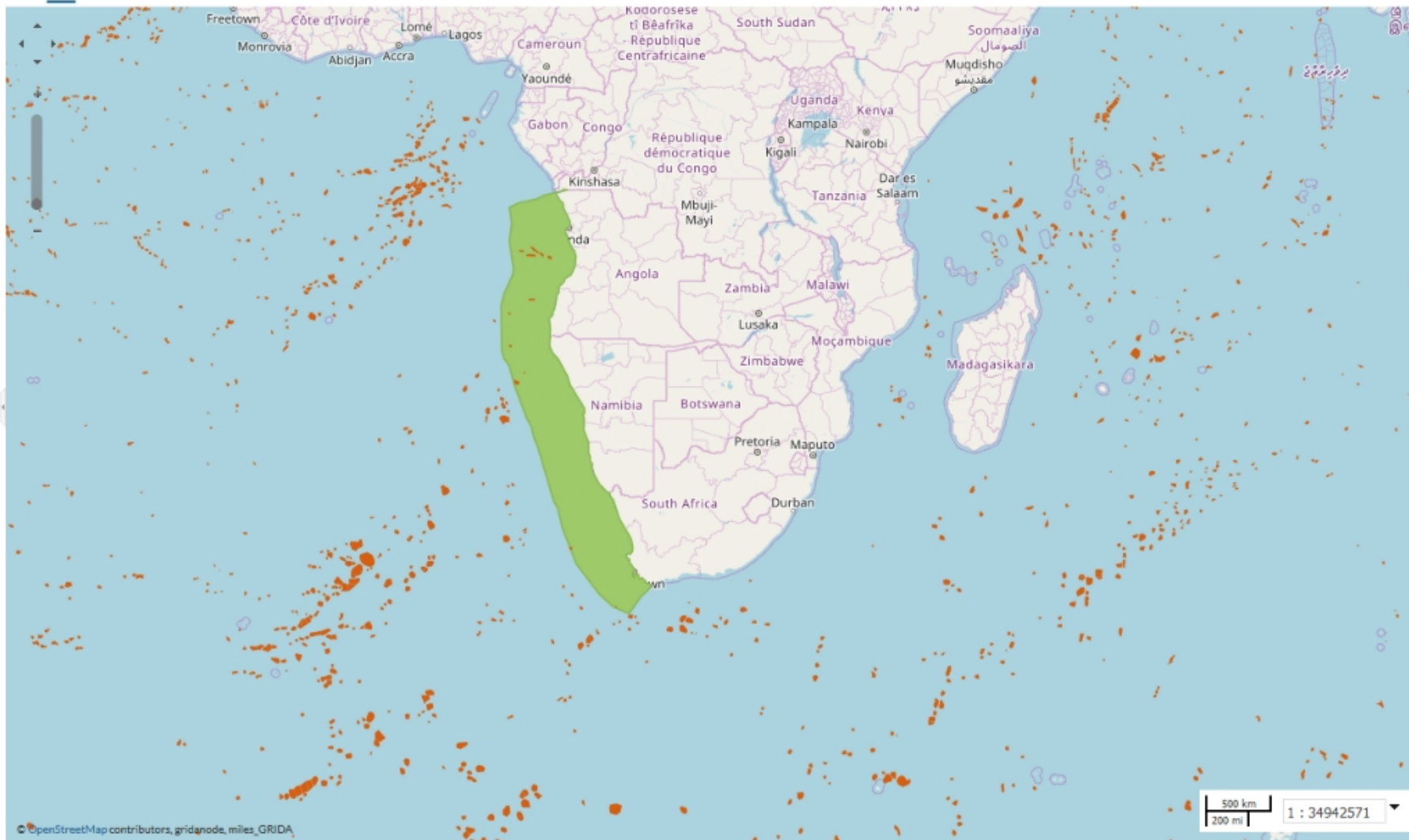
☒ Limit with filters

Match of the following:

☒ NAME

☒ add condition or use CQL filter instead

☐ Limit by scale



© OpenStreetMap contributors, gridanode, miles_GRIDA



Display options

Opacity:

Format: ☒ Transparent

Single tile: ☐ Use a single tile

Cache: ☒ Use cached version

Info format:

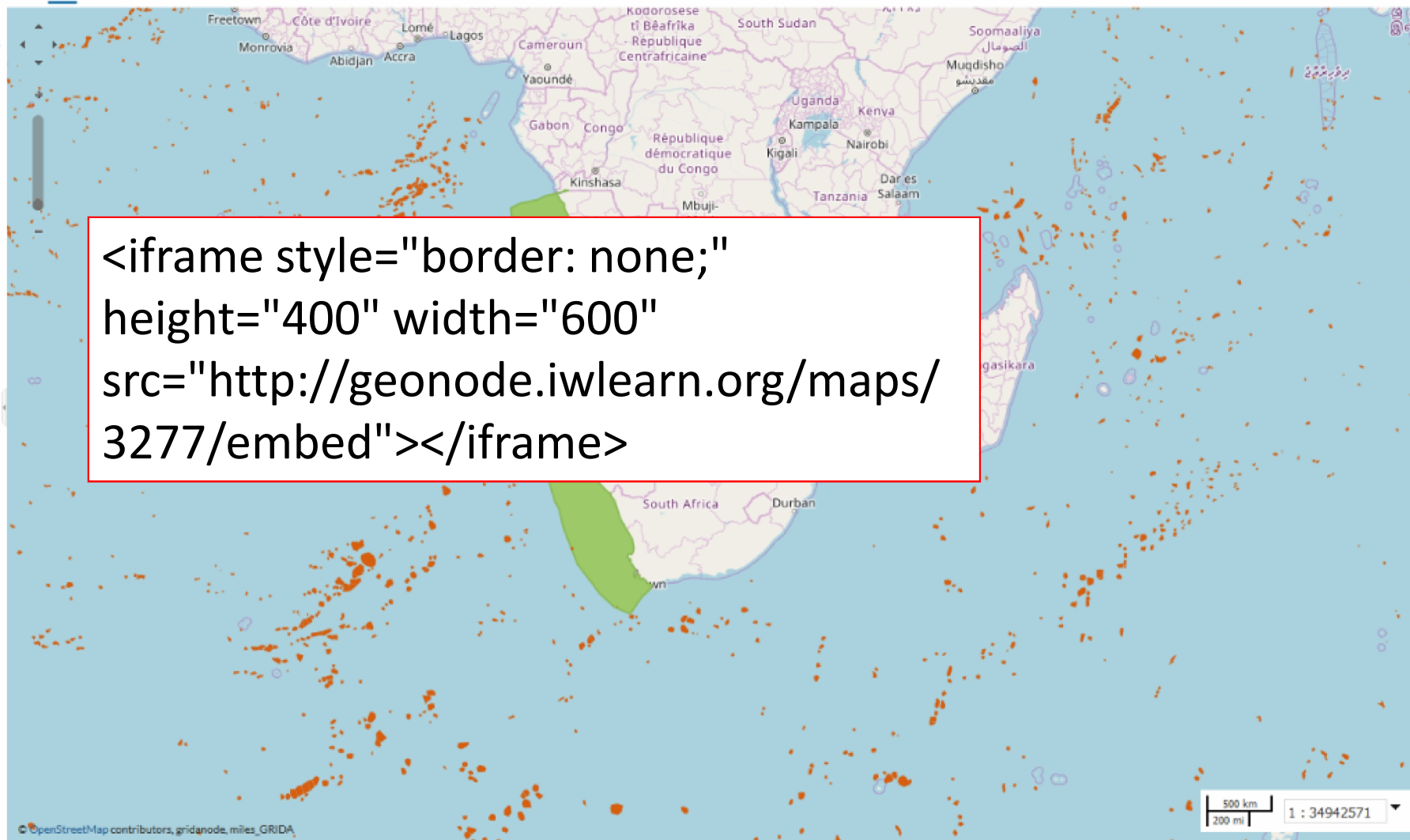
☒ Limit with filters

Match of the following:

☐ NAME

or

☐ Limit by scale



```
<iframe style="border: none;"
height="400" width="600"
src="http://geonode.iwlearn.org/maps/
3277/embed"></iframe>
```

New Map - GeoNode Sample Map +

file:///C:/Users/miles/Desktop/Cape Town/sample webpage.html

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"
10 ></iframe>CR LF
11 </body>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

New Map - GeoNode Sample Map +

file:///C:/Users/miles/Desktop/Cape Town/sample webpage.html

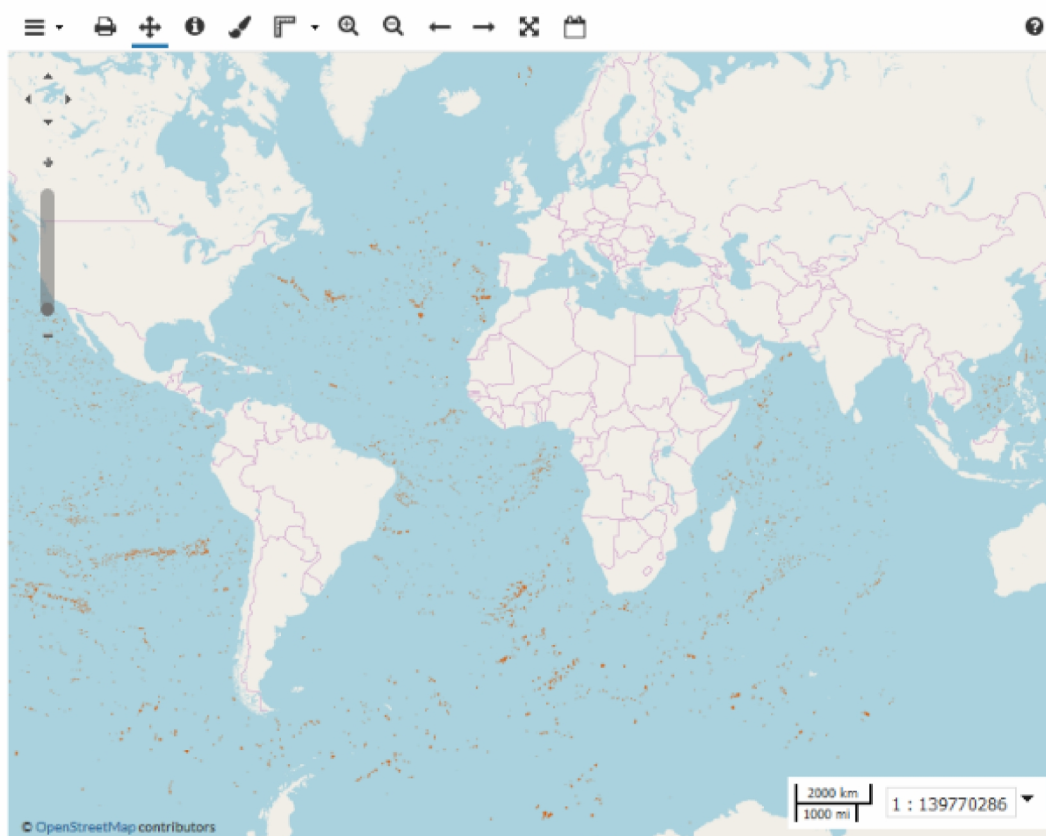
sample webpage.html

```
1  <!DOCTYPE html>CRLF
2  <html>CRLF
3  CRLF
4  <head>CRLF
5  <title>Sample Map</title>CRLF
6  </head>CRLF
7  CRLF
8  <body>CRLF
9  <iframe style="border: none; height="600" width="800" src="http://geonode.iwlearn.org/maps/3277/embed"
10 ></iframe>CRLF
11 </body>CRLF
12 CRLF
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 ▾

Seamount geomorphologic feature layer

☰ ▴ ▾ 🖨️ ➕ ⓘ 🛠️ 📐 🔍



Info ⓘ

Attributes ☰

Share ↗

Ratings ★

Comments 💬

Title Seamount geomorphologic feature layer

Download Layer



Images

Data

Tiles

View in Google Earth

KML

PNG

PDF

JPEG

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](#)



Data ▾

Maps ▾

...

Search



miles_GRIDA ▾

Download Layer



Images

Data

GeoJSON

Excel

CSV

GML 3.1.1

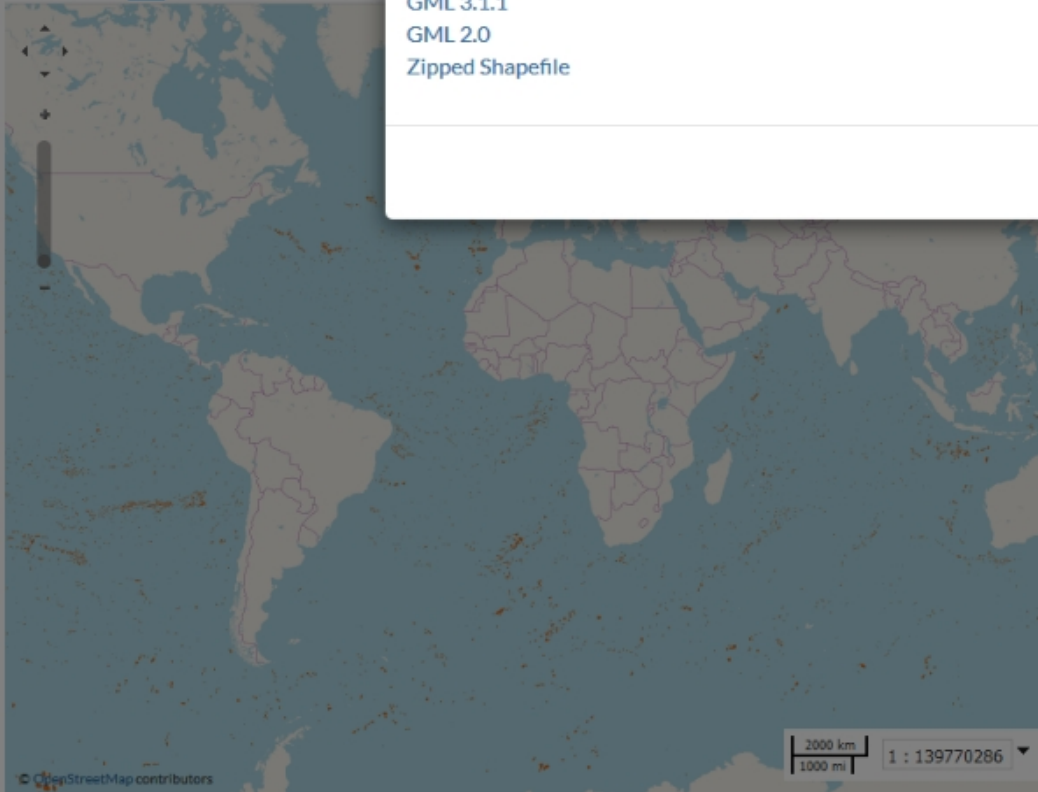
GML 2.0

Zipped Shapefile

Close

Seamount geomor

Menu icons: Home, Print, Add, Info, Edit, Full Screen, Search



© OpenStreetMap contributors

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

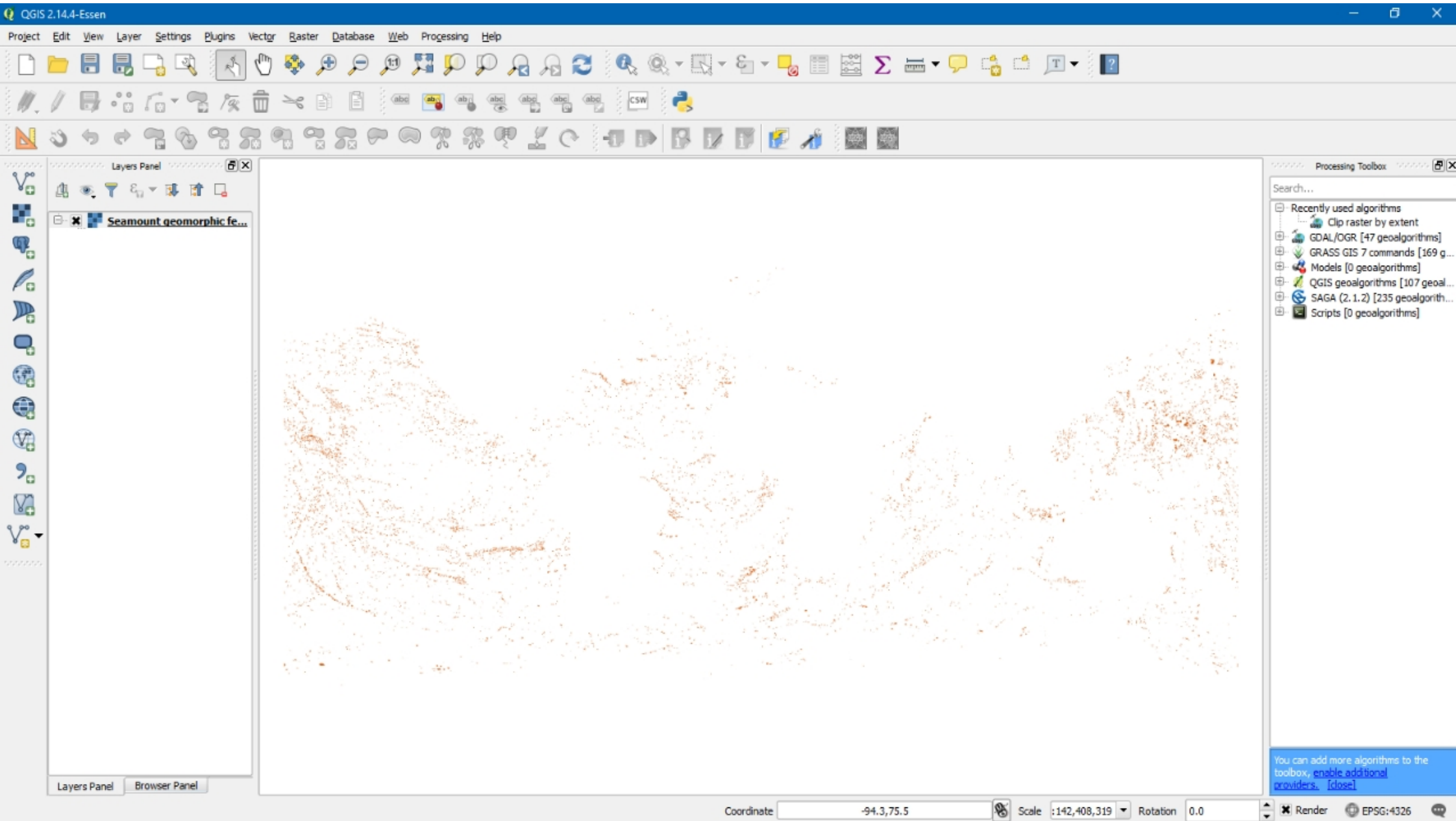
Info

Attributes

Share

Ratings

Comments



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



Data ▾ Maps ▾ About ▾

Q Search



miles_GRIDA ▾

Layers

Documents

Remote Services

Upload Layer

Upload Document

Add Remote Service

Welcome to IW:LEARN Spatial Lab

Discover The IW:LEARN Spatial Datasets



LME



Aquifers



River Basins



Lakes



Oceans



Others

Search for Data.



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)



Data

Layers

Documents

Remote Services

Maps

Explore Maps

Create Map

About

People

Groups

Announcements

Powered by GeoNode version 2.6.3

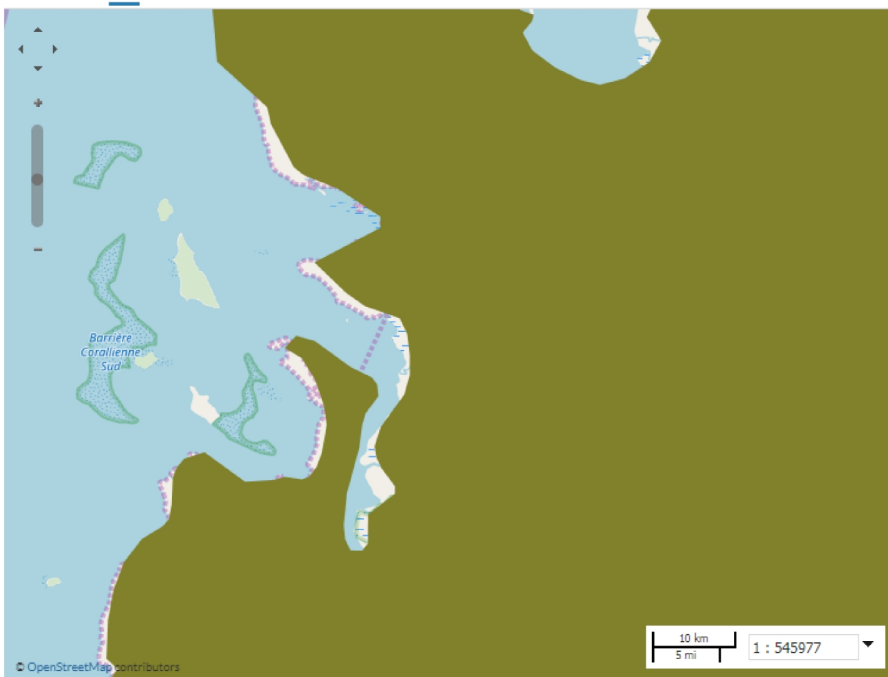
[Developers](#) | [About](#)

English

Creating / Editing Data



africa_merge



Info

Attributes

Share

Ratings

Comments

Title africa_merge
Abstract No abstract provided

Download Layer

Metadata Detail

Edit Layer

Download Metadata

Legend

Gray Polygon with Black Outline

Edit Layer

Ma

List

del

Cr

Clic

bas

Sty

The

laye

maj

Close



Metadata

Edit



Styles

Edit

Manage



Thumbnail

Set



Layer

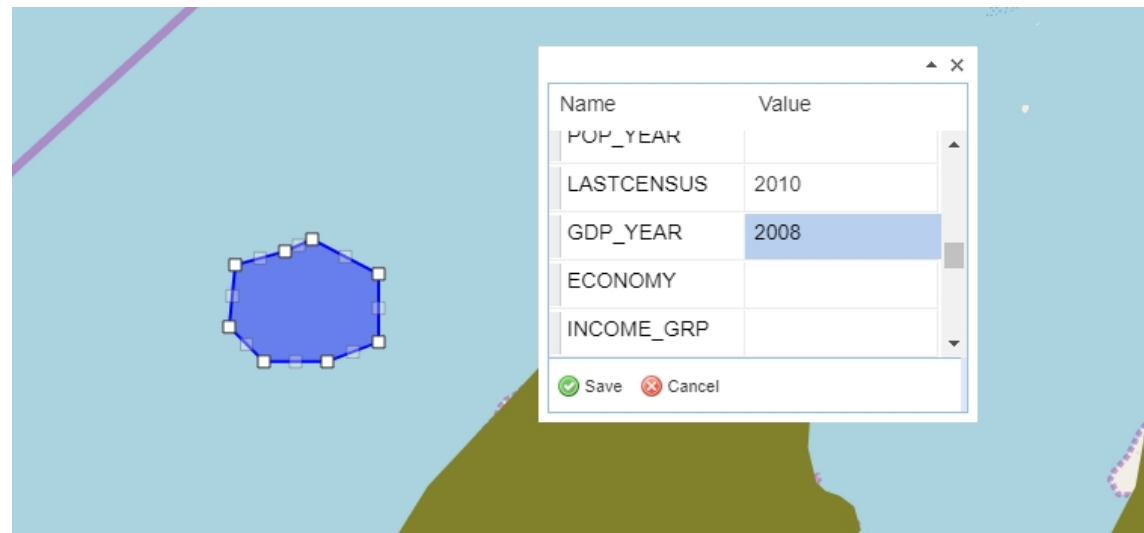
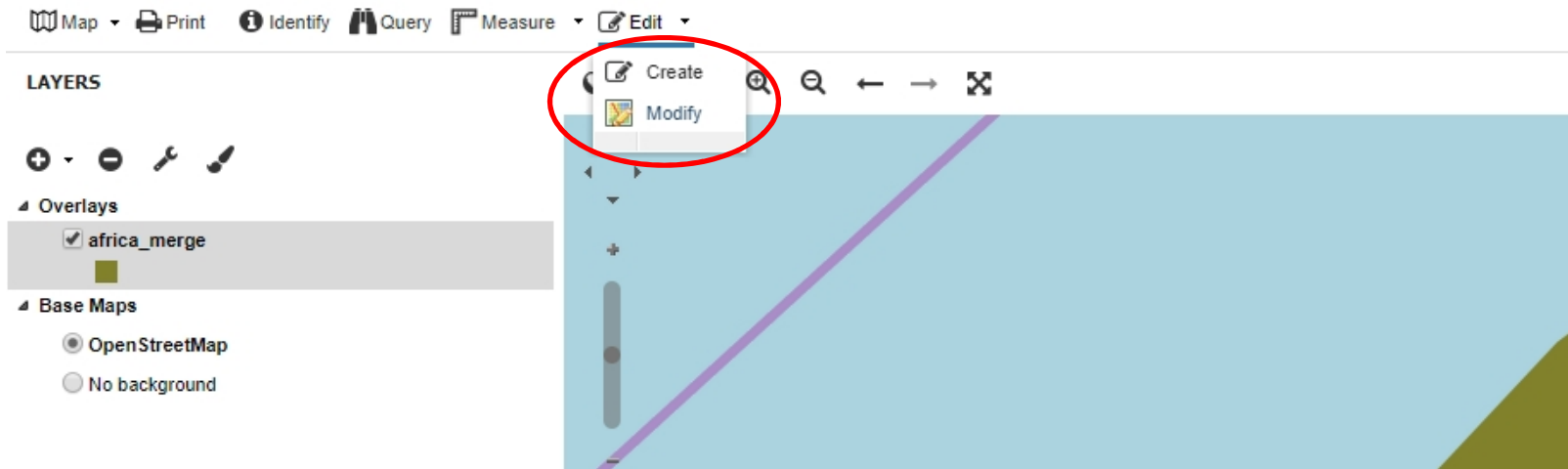
Replace

Edit data

Remove

Close

Data Editing



Data Updation



Data Compilation

Owner 1: Road

Owner 4: Water Quality

MAP

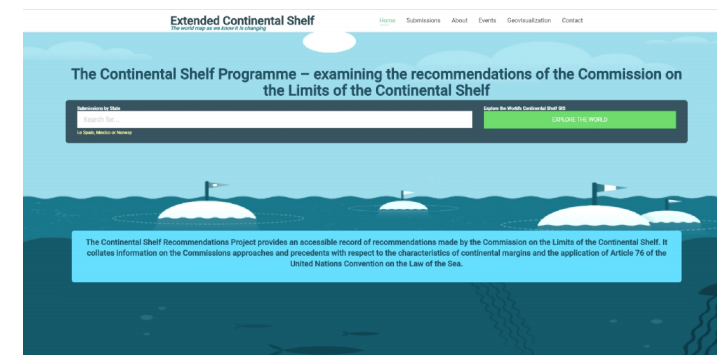
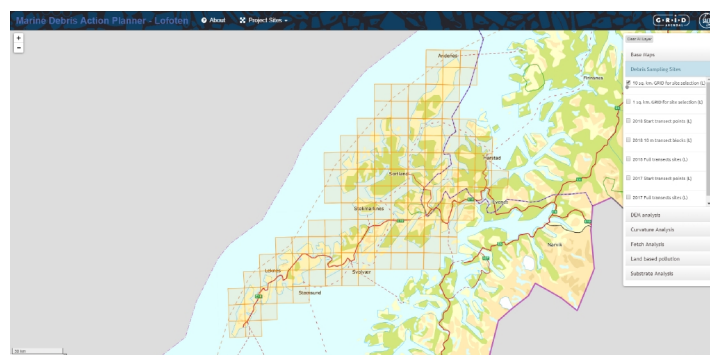
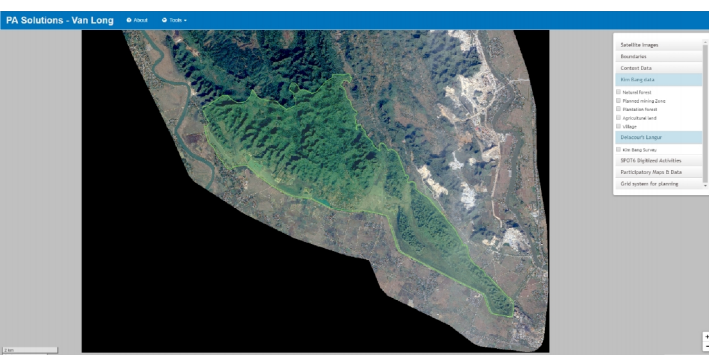
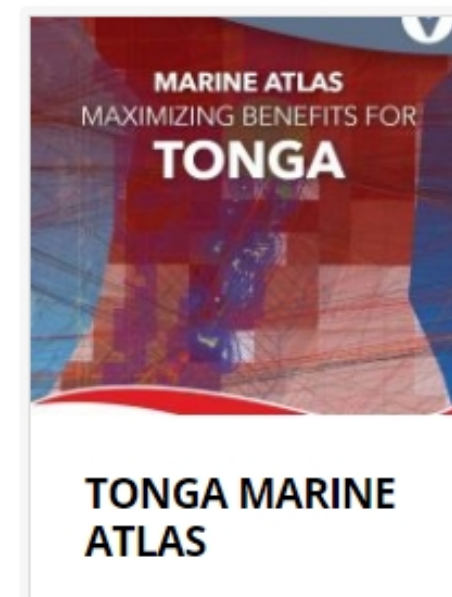
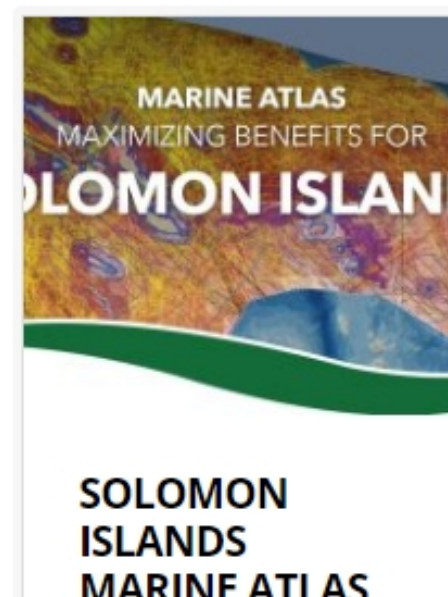
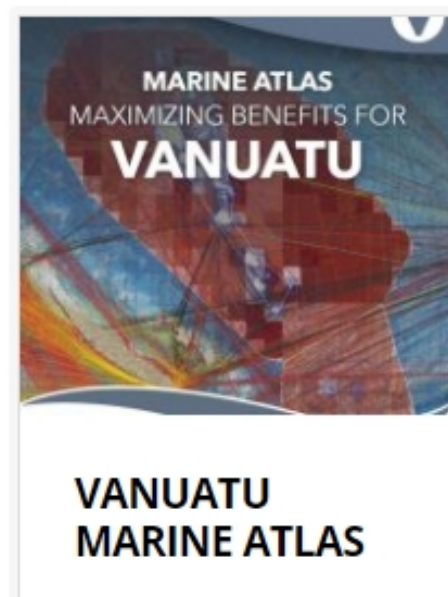


Owner 2: Settlement

Owner 3: River

What is Next ?

Data Computation and Visualization





Data ▾

Maps

About ▾

Resources

Search

Register

Sign in

Documents

- IWLEARN Spatial Lab Training Gaborone, Botswana
- IWLEARN Spatial Lab Data Guidelines -May, 2019

IW:LEARN Spatial Lab Video Tutorials

<p>How to: Create an account</p>	<p>How to: Explore map layers</p>	<p>How to: Search for datasets</p>
<p>How to: Upload a layer</p>	<p>How to: Change layer styling</p>	<p>How to: Publish a map</p>

Need more information or
support!

Come and talk to me!

Name: Debhasish Bhakta

Email: iwlearn@grida.no