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

Cape Town
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
What is IWLEARN Spatial Lab

• Built on GeoNode (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 and provide your name and IW project name.
Welcome to IW:LEARN Spatial

Discover The IW:LEARN Spatial Datasets

Search for Data.
Miles Macmillan-Lawler (miles_GRIDA)

Miles

Email: miles.macmillan-lawler@grida.no
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: Marine, Spatial Analysis, Data, IWLEARN

Resources

All contents  Layers  Maps  Documents
Exploring the interface
Upload your own data
Note: The Spatial Lab accepts most standard spatial data formats
Required shp, dbf, shx, prj
Optional sld, xml
Seamounts
ESRI Shapefile

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

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
Register New Service

Service URL

Service name

Service Type

Auto-detect

Create
## Remote Services

<table>
<thead>
<tr>
<th>Title</th>
<th>URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Layers</td>
<td><a href="https://services.arcgisonline.com/ArcGIS/rest/services/World_Imagery/MapServer/">https://services.arcgisonline.com/ArcGIS/rest/services/World_Imagery/MapServer/</a></td>
</tr>
</tbody>
</table>
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

Drop files here

or select them one by one:

Choose Files

Files to be uploaded

Seamounts

ESRI Shapefile

- Seamounts.dbf
- Seamounts.prj
- Seamounts.shx
- Seamounts.sid
- Seamounts.xml

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Edit Metadata

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

Owner: miles_GRIDA

Title

Seamount geomorphic feature layer

Date

Date: 2014-02-20 12:00 AM

Date type

Date type: Publication

Edition

Edition:

Abstract

The seamount geomorphic feature layer represents the spatial extent of the seamounts of the world's 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

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.sid Remove
- Seamounts.xml Remove

Preserve Metadata [ ]

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Option 2. Within the Spatial Lab

• Geonode has an inbuilt style tool
• Layers can have multiple styles
Seamount geomorphic feature layer

Download Layer
Metadata Detail
Edit Layer
Download Metadata

Legend
- Seamounts

Maps using this layer
List of maps using this layer:
- Bangueia 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
Welcome to IW:LEARN Spatial Lab

Discover The IW:LEARN Spatial Datasets

Search for Data.

LME
Aquifers
River Basins
Lakes
Oceans
Others

Advanced Search
Seamount geomorphic feature layer

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

Create a Map
Saving, sharing and publishing a map
**Title:**
Benguela Current LME seamounts

**Abstract:**
A map showing the seamounts identified by Kerh et al. (2014) in relation to the Benguela Current LME region.
Benguela Current LME seamounts
A map showing the seamounts identified by Harris et al. (2014) in relation to the Benguela Current LME region.
http://geonode.iwlearn.org/maps/3277
<!DOCTYPE html>
<html>
<head>
<title>Sample Map</title>
</head>
<body>
<iframe style="border: none; height="400" width="600" src="http://geonode.iwlearn.org/maps/3277/embed"></iframe>
</body>
</html>
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<!DOCTYPE html>
<html>
  <head>
    <title>Sample Map</title>
  </head>
  <body>
    <iframe style="border: none; height=600 width=800" src="http://geonode.iwlearn.org/maps/3277/iframe"></iframe>
  </body>
</html>
Seamount geomorphic feature layer

Download Layer

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
What about non-spatial data?
Non-spatial data


Links to external documents using URL

Link to maps and layers
Upload Documents

Allowed document types:

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

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任何人都可以查看

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Edit Metadata

Editing details for Seamount description

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!
Come and talk to me!

Miles Macmillan-Lawler
Email: iwlearn@grida.no