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# WeaMyL

Demo on how to access and visualise the output from the machine learning platform

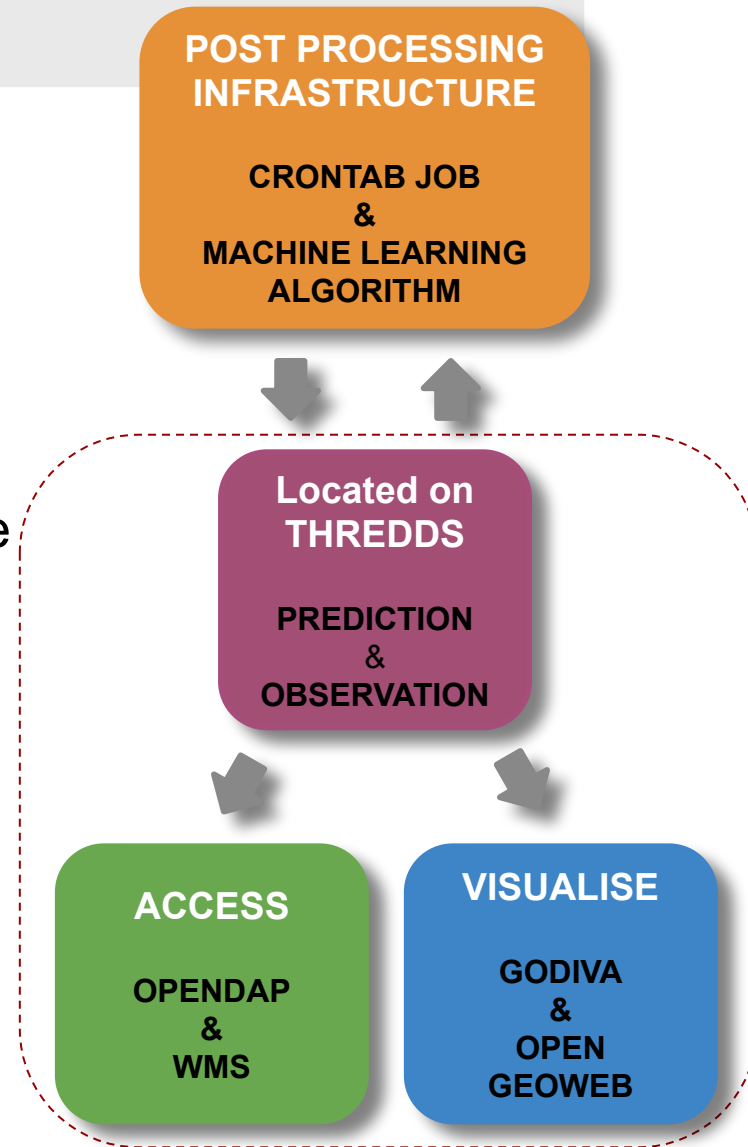
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Classification: Open

# Outline

- How to access the data from MET Norway THREDDS Data Server?
  - Observations
  - Predictions
- How to quickly get an overview of the data sets and quickly visualise the data?
  - OpenDap
  - Godiva
- How to make more fancy maps and animations using both observations and predictions?
  - GeoWeb





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# Example - Radar Composite Reflectivity

*'Reflectivity is the amount of transmitted power returned to the radar receiver after hitting precipitation - composite means compiling all returns from all elevation scans.'*

Selected event date : 2022-04-08 from 16.40 and 21.10

# Outline

1. Access the data for both observations and predictions from MET Norway TDS <https://thredds.met.no>
2. Quick overview of the data structure using **OpenDAP** and quickly visualise the data using **Godiva2**
3. Visualise and make a comparison between observations and predictions using
  - OpenGeoWeb <https://demo.OpenGeoWeb.com>

# Access the data via TDS

<https://thredds.met.no>

**\*\* ALL THE DATA ARE STORED IN NETCDF FILES \*\***

- Path to the real time (latest) WeaMyL forecasts

[https://thredds.met.no/thredds/catalog/weamyl/Model/catalog.html?dataset=weamyl/Model/predicted\\_reflectivity\\_yr\\_wms-nordic\\_20220408\\_test\\_version1\\_hour.nc](https://thredds.met.no/thredds/catalog/weamyl/Model/catalog.html?dataset=weamyl/Model/predicted_reflectivity_yr_wms-nordic_20220408_test_version1_hour.nc)

- Path to real time observations

<https://thredds.met.no/thredds/catalog/remotesensing/reflectivity-nordic/2022/04/catalog.html>

# Outline

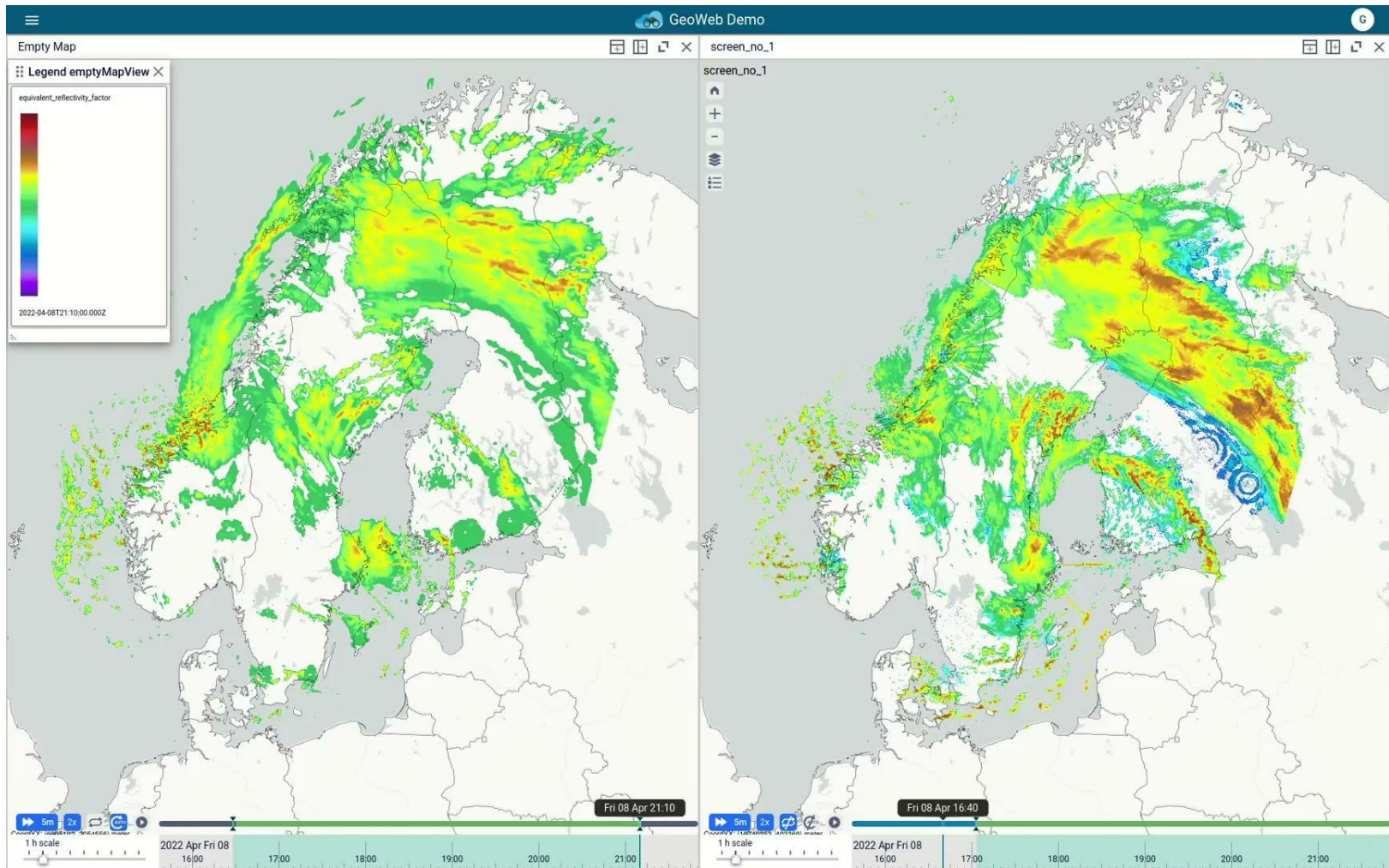
1. Access the data for both observations and predictions from <https://thredds.met.no>
2. Quick overview of the data structure using OpenDAP and quickly visualise the data
  - Godiva2
3. Visualise and compare observations to forecasts:
  - <https://demo.OpenGeoWeb.com>

# Example - Radar Reflectivity

[https://thredds.met.no/thredds/catalog/weamy/Model/catalog.html?dataset=weamy/Model/predicted\\_reflectivity\\_yrws-nordic\\_20220408\\_test\\_version1.nc](https://thredds.met.no/thredds/catalog/weamy/Model/catalog.html?dataset=weamy/Model/predicted_reflectivity_yrws-nordic_20220408_test_version1.nc)

Forecasts/Predictions

Observations



# Future work

- Improve and validate the WeaMyL nowcasting model
- Compare with current nowcasting models implemented at MET Norway





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# WeaMyL Project Website

<https://weamyl.met.no>