NextGEOSS Biodiversity Pilot: Remote Sensing-enabled Essential Biodiversity Variables Data-hub for European Habitat Mapping

A Creating the NextGEOSS European RS-enabled EBVs Data-hub
The NextGEOSS European RS-enabled EBVs data-hub was created.

B Generating RS-enabled EBVs
From the RS-enabled EBVs, which were initially proposed to be derived from high-resolution satellite data (Sentinel-2), leaf area index (LAI) was selected.

C Remote Sensing-enabled EBV’s for European Habitat Mapping
Using 1,5 M vegetation plot records as input (Derived from the European Vegetation Archive) covering ~200 EUNIS habitats for modelling.

Selection of a maximum of 30 predictors (Comprising 7 climate parameters, 10 soil and terrain parameters, and 13 RS-EBVs).

Using open source software Maxent, version 3.4.1 for the habitat modelling, by applying a machine-learning technique called maximum entropy modelling.

Running the modelling process in the cloud which is controlled by a WPS client.