

1.1 Module 4: Copernicus Land Monitoring Service

1.1.1 Submodule A: Product portfolio and data access

Executive summary

The submodule provides an overview of the Copernicus Land product portfolio with its different portals and data access mechanisms. The In-situ component is not included!

This module consists of a Power Point Presentation (PPT) and a video in *.mp4 format. The video to submodule A is to be understood such that the presenter can choose to press the "Pause" button whenever/wherever he wants to elaborate on contents.

Script

The script describes the procedure of performing the tasks with the "real" online data sources and provide also associated links, whereas the PPT and video run offline.

1. Go to the Copernicus homepage as general entry point: <http://copernicus.eu/>
2. Navigate on the left side to **Products and Services** [Land Monitoring](#) to get general information on the Copernicus Land Monitoring Service (CLMS)
3. Scroll down and click on land.copernicus.eu to enter the whole variety of Copernicus Land Monitoring Services

Global

Present the Global Land product portal with its variety of global bio-physical variables and access mechanism. Provide some information of established indices and variables.

4. Click on [Global](#) to enter the product portal of the Copernicus Global Land Service
5. Navigate with the mouse to **Products** to get an overview of the global products in the different thematic domains (vegetation, water cycle, energy budget).
6. Just briefly refer to the **User support corner** in the bottom right corner for additional information (leaflet, product portfolio, FAQ)
7. Click on [Viewing](#) to access the viewing services and click then on [Tiled map viewing service](#) to get an impression of the existing viewing services.
8. Select **NDVI V2**, and perform a global time series viewing by defining a time span within 2016.
9. Go back to the Global Land [Homepage](#), then click on [Product Access](#) to search and download Global Land Products of your interest.

Hint: You need to register (upper right corner) to be able to download products.

Pan-European

Present the Pan-European product portal with its variety of products, services, reference data and access mechanism. Provide some specific details on product definition and characteristics.

10. Go back to the CLMS portal land.copernicus.eu and click on [Pan-European](#) to enter the product portal.
11. Navigate from the left (Image mosaics) to the right (Related Pan-European products), then click on [Image mosaics](#).
12. Select [Very high resolution](#), then click on [True color image 20112 \(Core 3, VHR – 2.5m\)](#) to open the map viewing service.
13. Fully zoom to a location of your choice (e.g. Athens in Greece).
14. Click on [Web services](#). A pop-up window appears on the left side of the map: click on [WMS](#). A WMS link appears in a new tab, it allows you to integrate the map image within your GIS.
15. Go back to Pan-European and click on [CORINE Land Cover](#) to access the CLC product group. Select and click on a CLC product (e.g. CLC 2012). The Map Viewer opens automatically.
16. Zoom within the map to a location of your choice (e.g. Athens in Greece), then click on **Metadata** to get more information about this specific dataset.
17. Click on **Download** and select the product type(s) of your choice (e.g. CLC 2012 as 100m GeoTiff and as ESRI Geodatabase). Then activate the checkbox under the product listing and click on **Download selected items (2)**.
18. The Login interface opens automatically. To download the selected dataset(s) login with your EIONET credentials. The download starts after successful login. New users have to register first by clicking on [Registration](#). The registration form opens automatically. Fill in the form, accept the **Terms of Use** and click on **Register**.

Hint: The registration procedure is identical for **Pan-European** and **Local** CLMS products.

19. Click on [Pan-European](#) to get back to the Pan-European product overview and click on [High Resolution Layers](#) to browse between the different layers.
20. Click on [Imperviousness](#) to get an impression of the available HRL Imperviousness products for Europe.
21. Go back and click on [Forests](#) to do the same for the HRL Forest.
22. Click again on [Pan-European](#), then select [Reference Data](#) to show pan-European hydrographic and elevation reference datasets. Click on [EU-DEM](#) to get more information.

Local

Present the Local Component product portal with its variety of products. Finally, refer to the User corner as additional source of information.

23. Click on [Local](#) to enter the product groups of the local component.
24. Select [Urban Atlas](#) to enter the Urban Atlas product family.
25. Go back and click on [Riparian Zones](#) to do the same for the Riparian Zones products.
26. Repeat the whole action with [Natura 2000 \(N2K\)](#).

27. Finally, refer to the ***User corner*** on the right for additional information (publications, technical library, service desk, etc) and click on [Technical library](#) to view and download technical documents.