EUMETSAT's Drought & Vegetation Data Cube

A prototype

Information Day: 11 May 2021

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Agenda D&V Cube Info Day

09:30 – 09:45: Welcome & Introduction

09:45 – 11:00: The Drought & Vegetation Data Cube: Introduction to the variables

> (2m Temperature &) Solar Radiation (SIS, DNI, SDU)
> Precipitation
> Root Zone Soil Wetness
> *~10:15 break of 5 min*
> Land Surface Temperature
> Vegetation Parameter (FVC, LAI, fAPAR)
> NDVI
>
> Reference Evapotranspiration

10:45 – 11:15: COFFEE BREAK

11:15 – 11:45: Access to the Data Cube and CM SAF R Toolbox demonstration
11:45 – 12:15: Climatological drought monitoring in Switzerland using SAF satellite products
12:15 – 12:45: What now? – The Exploration Phase
12:45 – 13:00: Q & A and Feedback

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Accessing the D&V Cube

- Link to access the cube only for "<u>enrolled</u>" users:
  - create an account on moodle and enrol yourself to the "Data Cube Information Page"

https://training.eumetsat.int/course/view.php?id=399

1. Step

2. Step

Enrolment key: explored&vcube21

Browsing the D&V Cube

Please note: at the moment there might be issues accessing the LST CDR. We are working this!

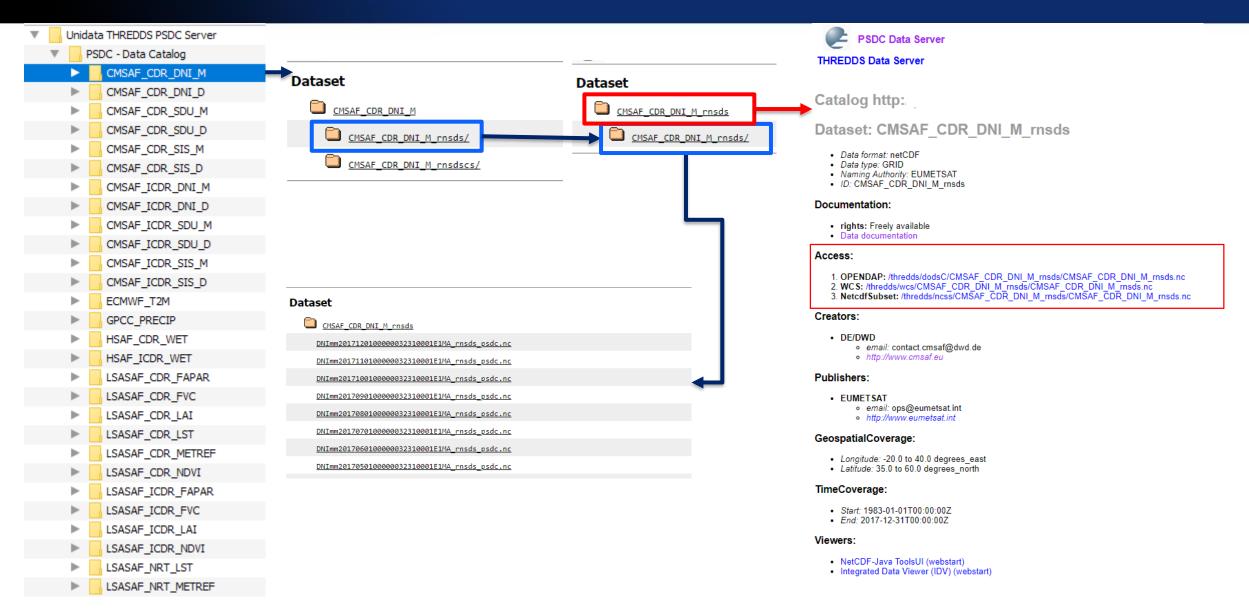# Accessing the D&V Cube

Some R Tools you may want to consider

- ## CM SAF R Toolbox

  - Designed for CM SAF data, but works for all cf-compliant ncdf data on regular lat-lon grid with a time dimension

  - designed for climate analysis (many CDO functionalities)

  - Introduction follows

  - Check out the Short Course (20 Jan 2021)

- ## R-Instat

  - For comparison with station data

  - Tutorial on Moodle, linked from D&V Cube Info Page

  - Check out the Short Course (03 Feb 2021)

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