

A large, multi-story glass and metal structure, likely a greenhouse or a climate chamber, is the central focus of the image. It is surrounded by lush green vegetation, including ferns and purple flowers in the foreground, and tall evergreen trees in the background. The sky is a clear, bright blue.

Lenka Bartošová, Clim4Cast team

CLIM4CAST: A tool for tracking climate hazards across Europe – drought, heatwaves and wildfires

22/04/2026

Clim4Cast project

Central European Alliance for Increasing Climate Change Resilience to Drought, Heatwaves, and Fire Weather



- 7 countries
- 8 partners
- 2023-2026
- DHF – Drought, Heatwaves, Wildfires

Clim4Cast project

- 2 main goals:
 - Historical data collection of drought, heatwave and wildfires
IMPACTS – 2000-2025

Monitoring and forecasting tool for drought, heatwave and wildfires – www.clim4cast.eu



BE READY WITH CLIM4CAST MAPS

We monitor the current occurrence of droughts, heatwaves, and wildfires, and update a 9-day forecast of these extreme events on a daily basis.

We also track the global impacts of drought across various sectors on a weekly basis.

CLIM4CAST FORECAST MAPS



DROUGHT

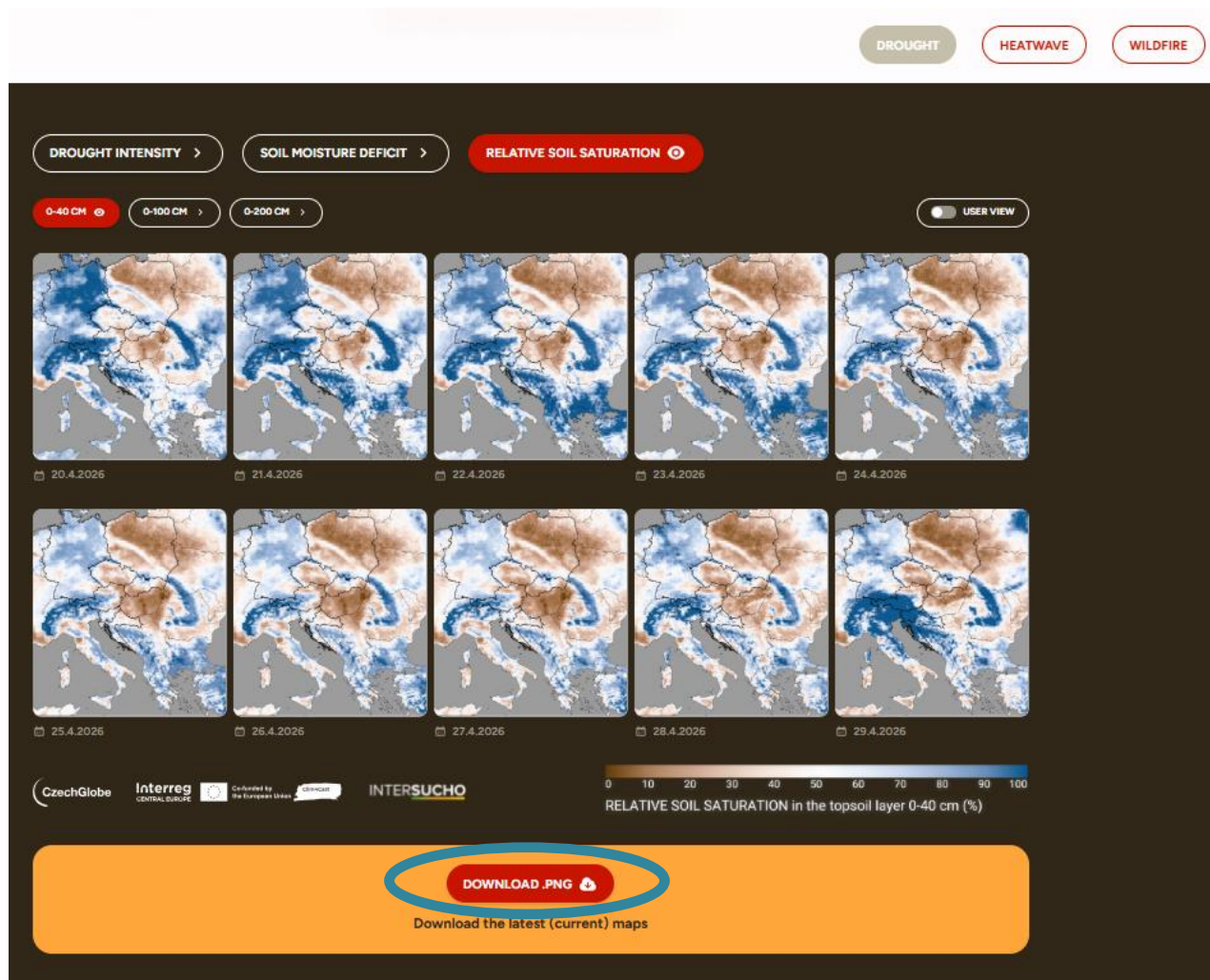


HEATWAVE

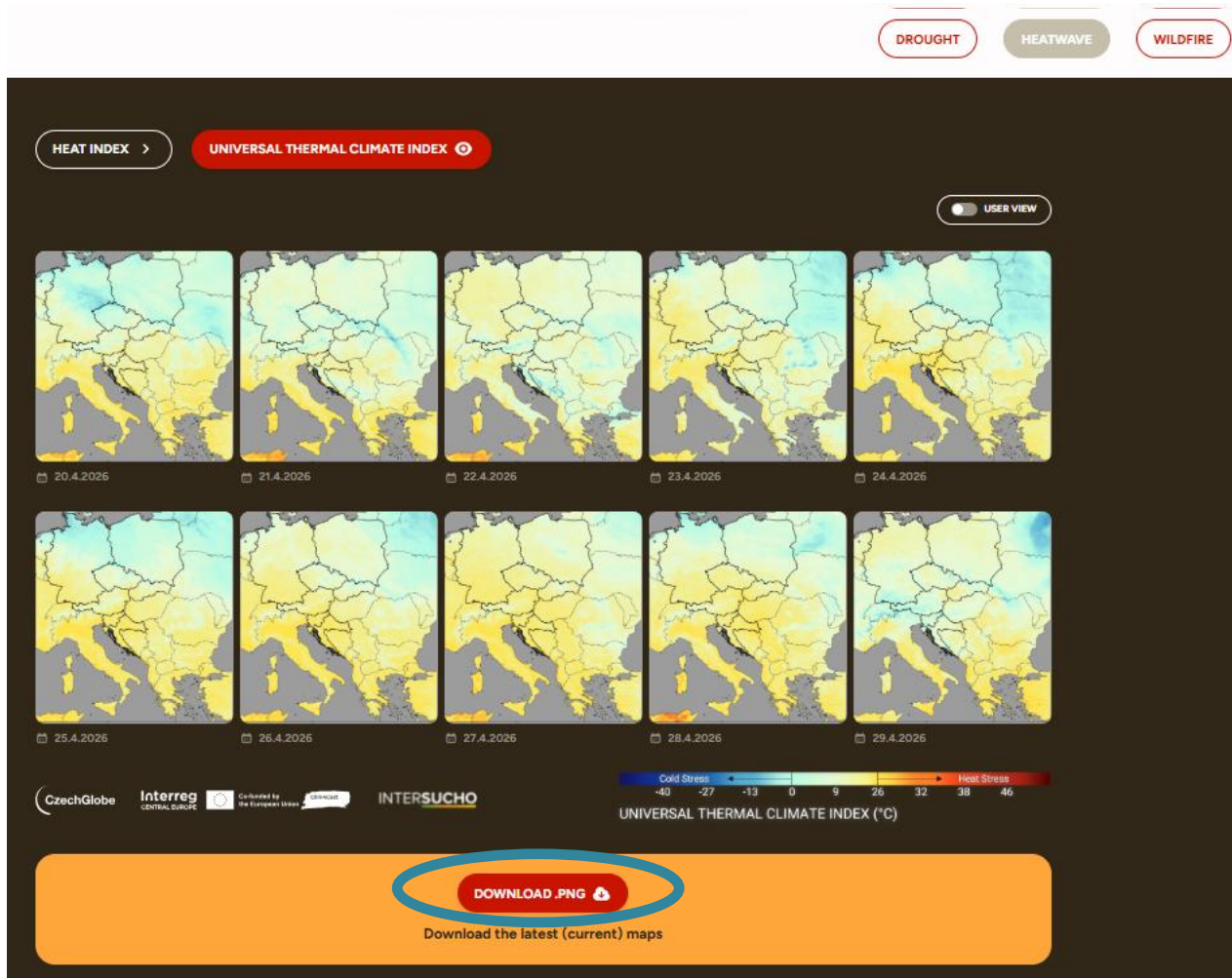


WILDFIRE

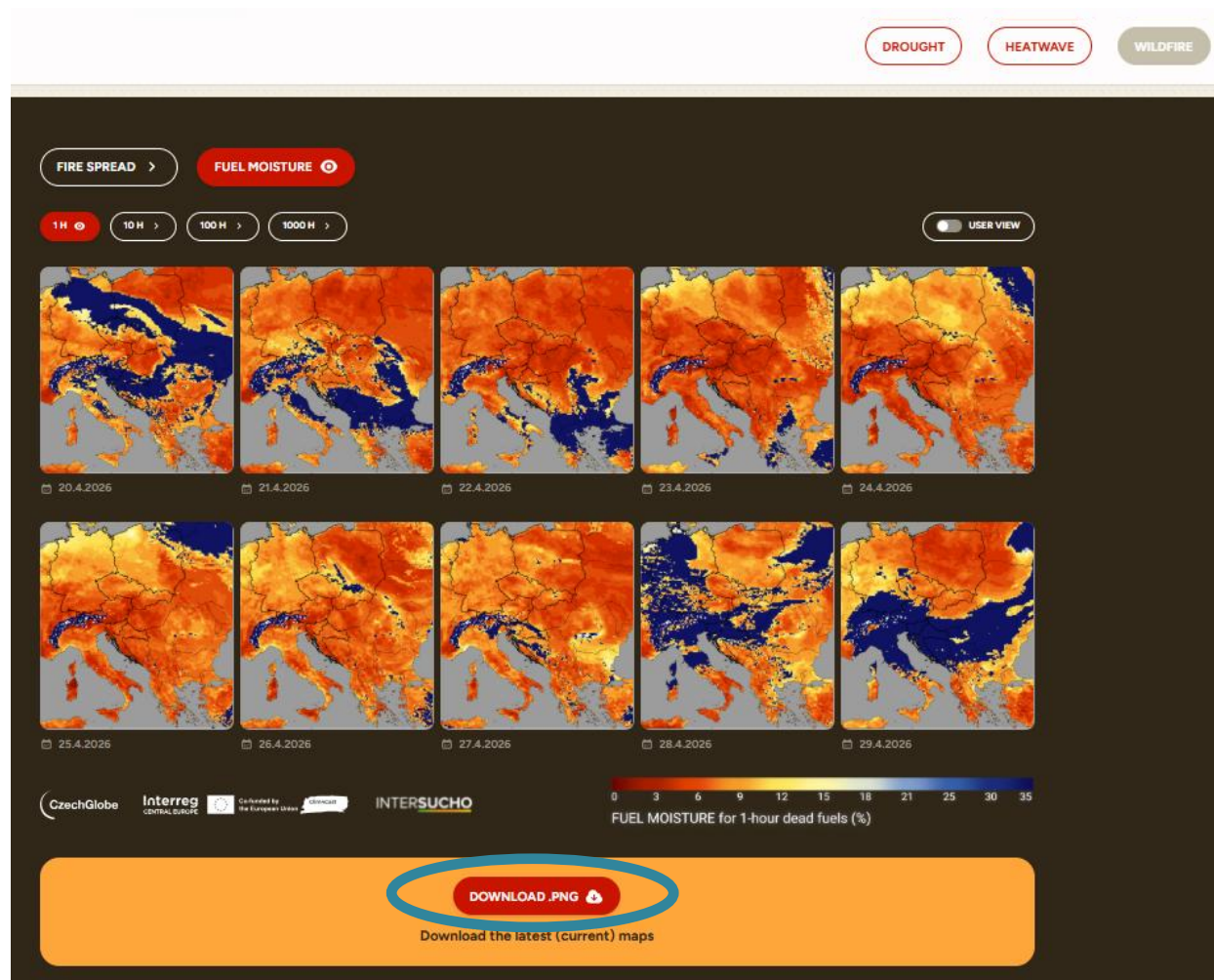
- 3 parameters:
 - Drought intensity
 - Soil moisture deficit
 - Relative soil saturation
- 3 soil depths
- Daily, 9 days
- Colorblind version

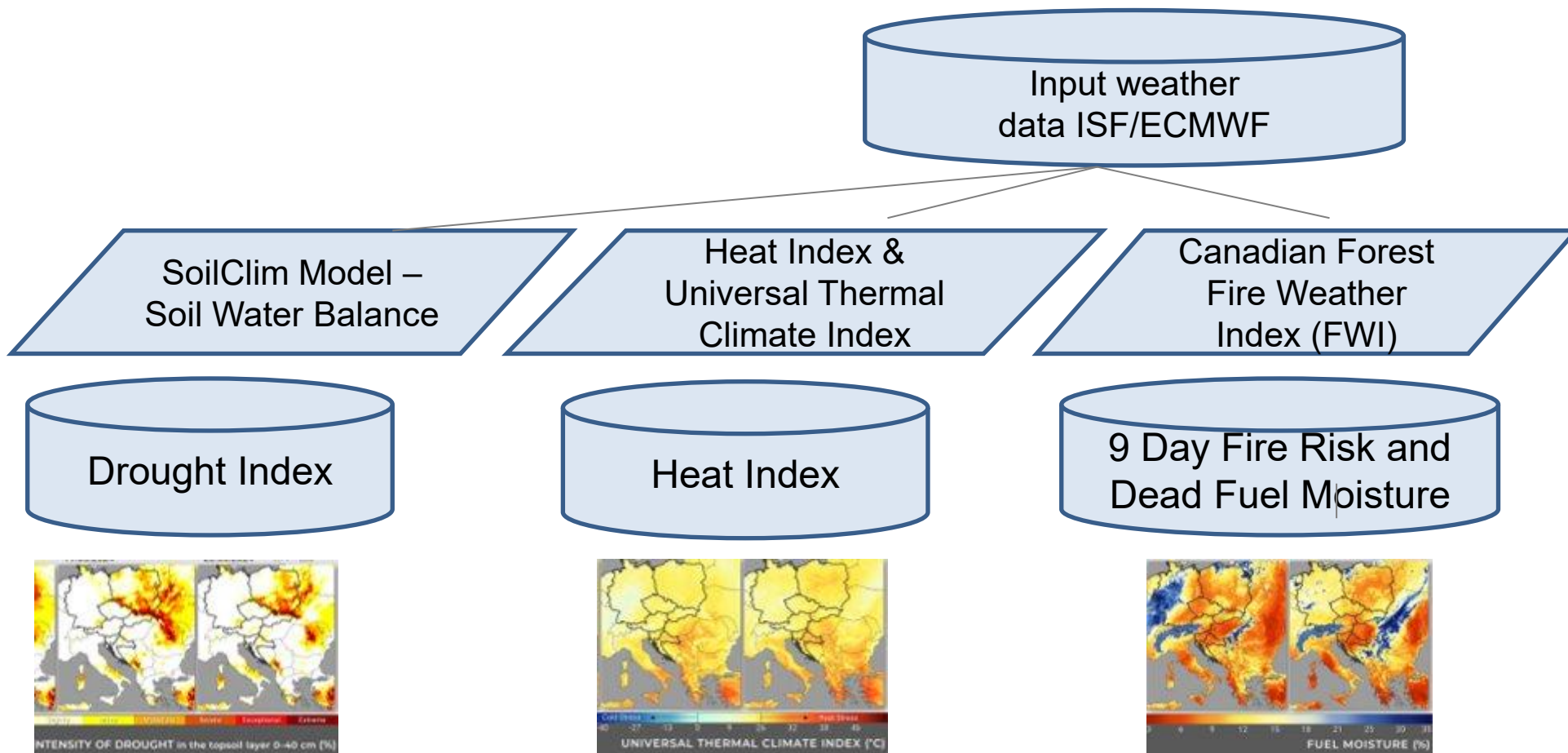


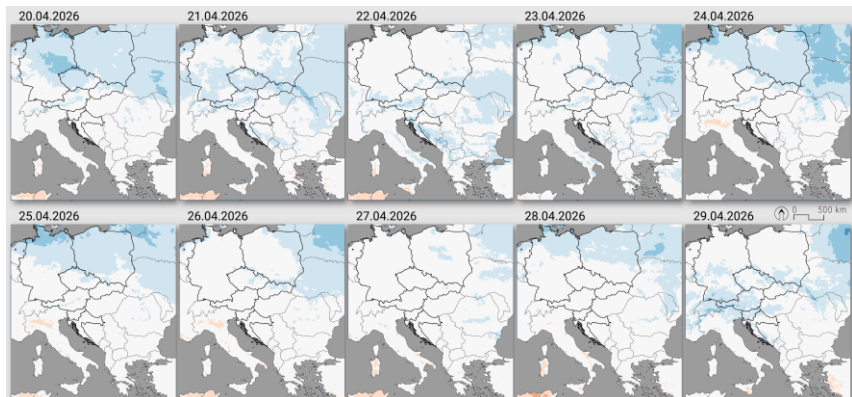
- 2 parameters:
 - Heat index
 - UTCI
- Daily, 9 days
- Colorblind version



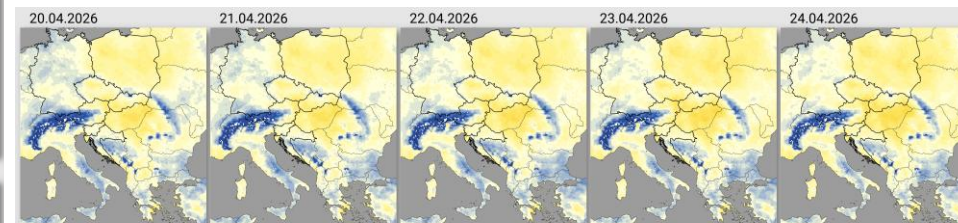
- 2 parameters:
 - Fire spread - FWI
 - Fuel moisture
- Daily, 9 days
- Colorblind version







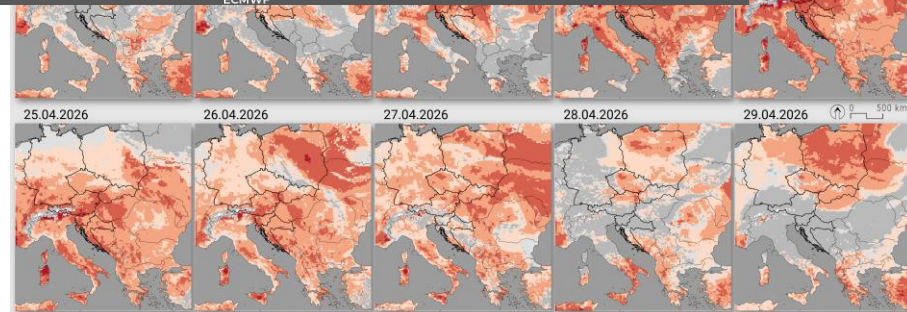
10-Day Forecast
Numerical Model Prediction
ECMWF
UNIVERSAL THERMAL CLIMATE INDEX (°C)



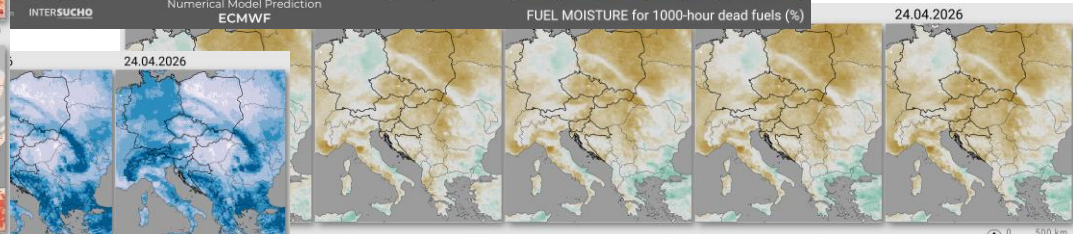
10-Day Forecast
Numerical Model Prediction
ECMWF
FUEL MOISTURE for 1000-hour dead fuels (%)



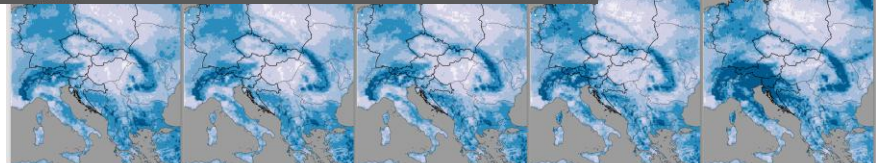
10-Day Forecast
Numerical Model Prediction
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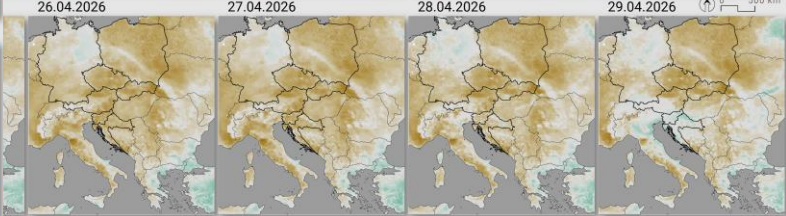
10-Day Forecast
Numerical Model Prediction
ECMWF
RELATIVE SOIL SATURATION in the topsoil layer 0-40 cm (%)



10-Day Forecast
Numerical Model Prediction
ECMWF
SOIL MOISTURE DEFICIT in the topsoil layer 0-40 cm [mm]



10-Day Forecast
Numerical Model Prediction
ECMWF
RELATIVE SOIL SATURATION in the topsoil layer 0-40 cm (%)



10-Day Forecast
Numerical Model Prediction
ECMWF
SOIL MOISTURE DEFICIT in the topsoil layer 0-40 cm [mm]



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DROUGHT



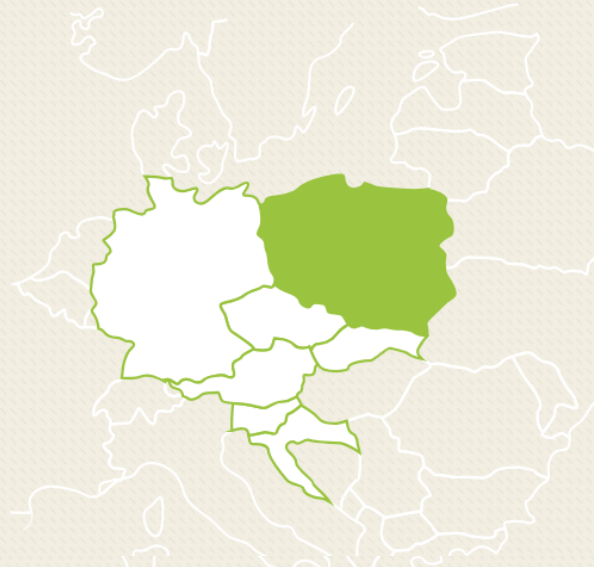
HEATWAVE



WILDFIRE

REGIONAL PRODUCTS

Droughts, heatwaves, and wildfires are also monitored at the national level by individual project partners. Below you will find links to detailed monitoring and forecasting systems that take into account the specific conditions of each country. These systems use various methods to display hydrometeorological extremes.

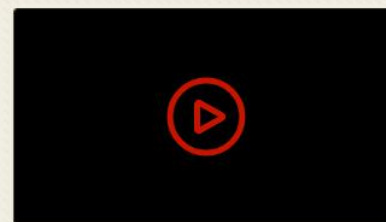


DROUGHT

State Research Institute
in Puławy (IUNG-PIB)

VISIT PRODUCT WEBSITE →

VIDEOTUTORIALS



Thanks for your attention.

