Zita Bihari, Kinga Bokros, Beatrix Izsák, Attila Kovács, Mónika Lakatos, Annamária Marton, Zsófia Molnár, Olivér Szentes, Bernadett Szolnoki-Tótiván:

Climate services at the Hungarian Meteorological Service (OMSZ) based on gridded data series

HuClim – Hungarian climate data

Unit of Climatology in OMSZ update the Hungarian homogenized and interpolated climate data series at the beginning of each year (HuClim data) with the MASH and MISH software. The spatial resolution of the data series is 0,1°.

Produced daily data:

- Maximum, minimum and mean temperature (1901-)
- Precipitation (1901-)
- Air pressure (1961-)
- Relative humidity (1951-)
- Average wind speed and direction (1997-)
- Wind gust (2001-)
- Global radiation (2000-)

Produced sub-daily data:

- 6 hours temperature (1970-)
- 6 hours precipitation (1997-)

Derived values:

- Monthly, yearly averages and sums
- Climate indices
- Spatial averages (average of the grid point values)

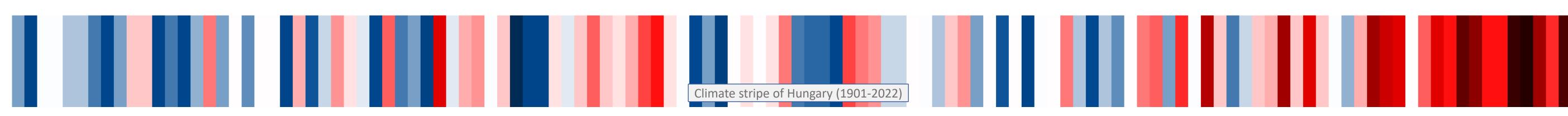
Public Meteorological Database (odp.met.hu)

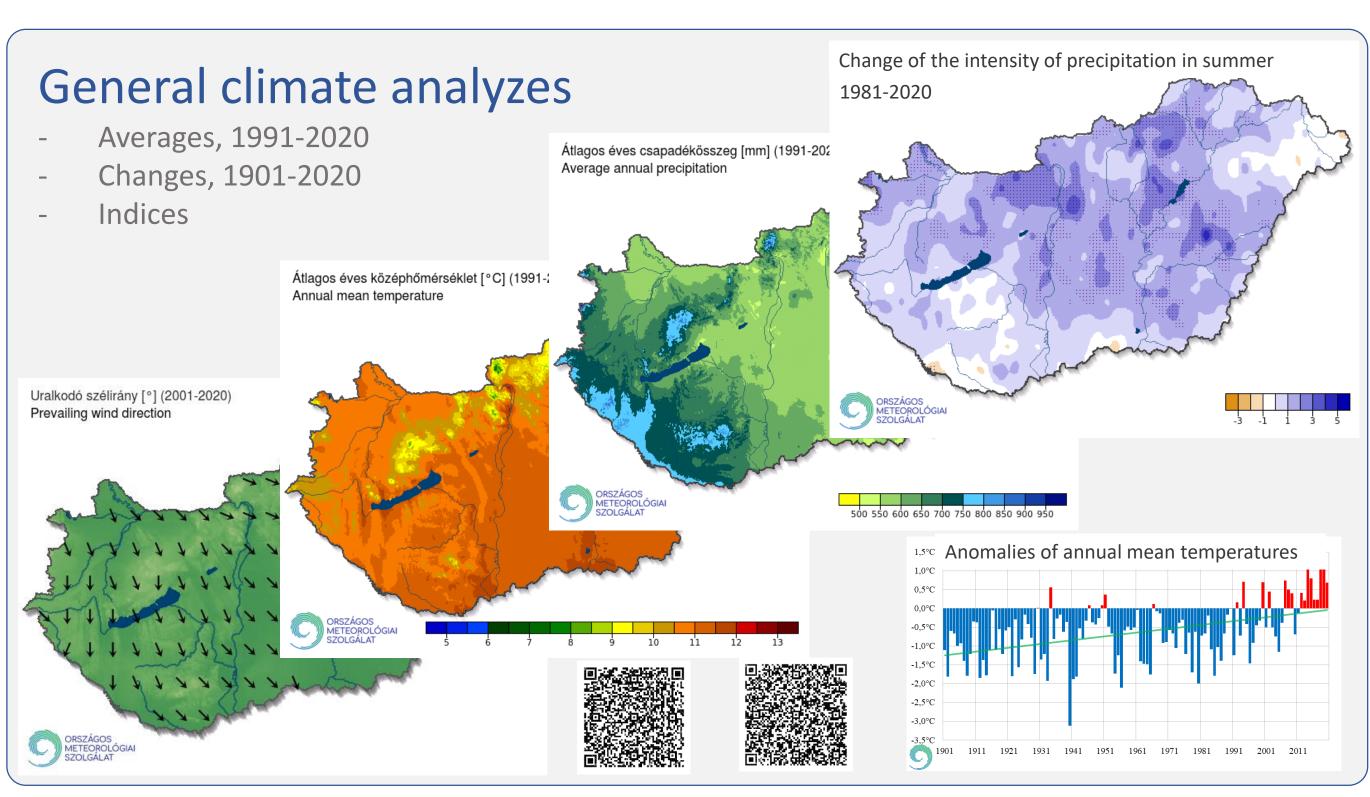
In accordance with European Union directives, the resources provided by the Hungarian Government enabled the OMSZ to implement an open meteorological data policy from 1 January 2021.

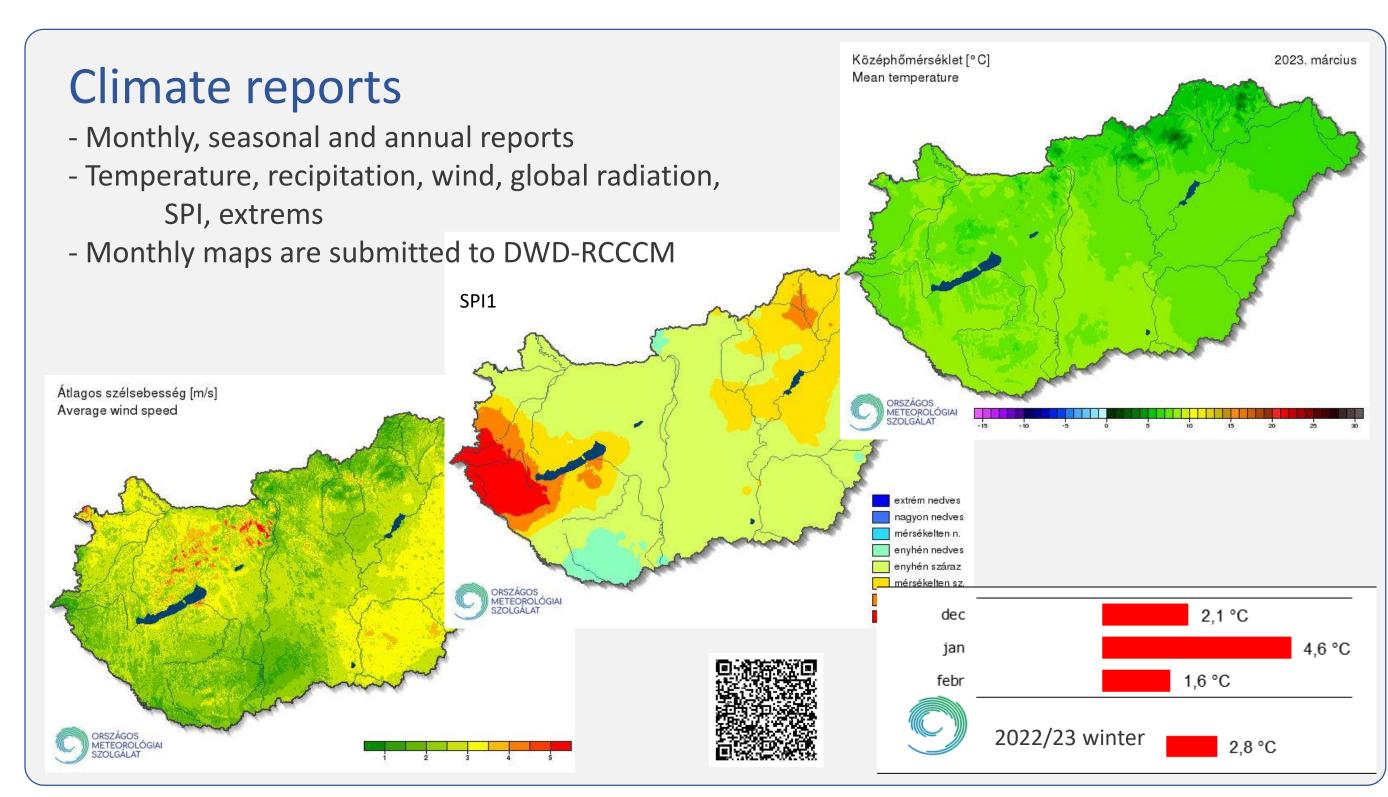
According to this, OMSZ provides its monitoring and measurement data, the forecasts of the models run by OMSZ, and other weather and climate information free of charge and available for free use via the open data server (Meteorological Database) odp.met.hu.

Among the others homogenized station data and gridded data series are also available.

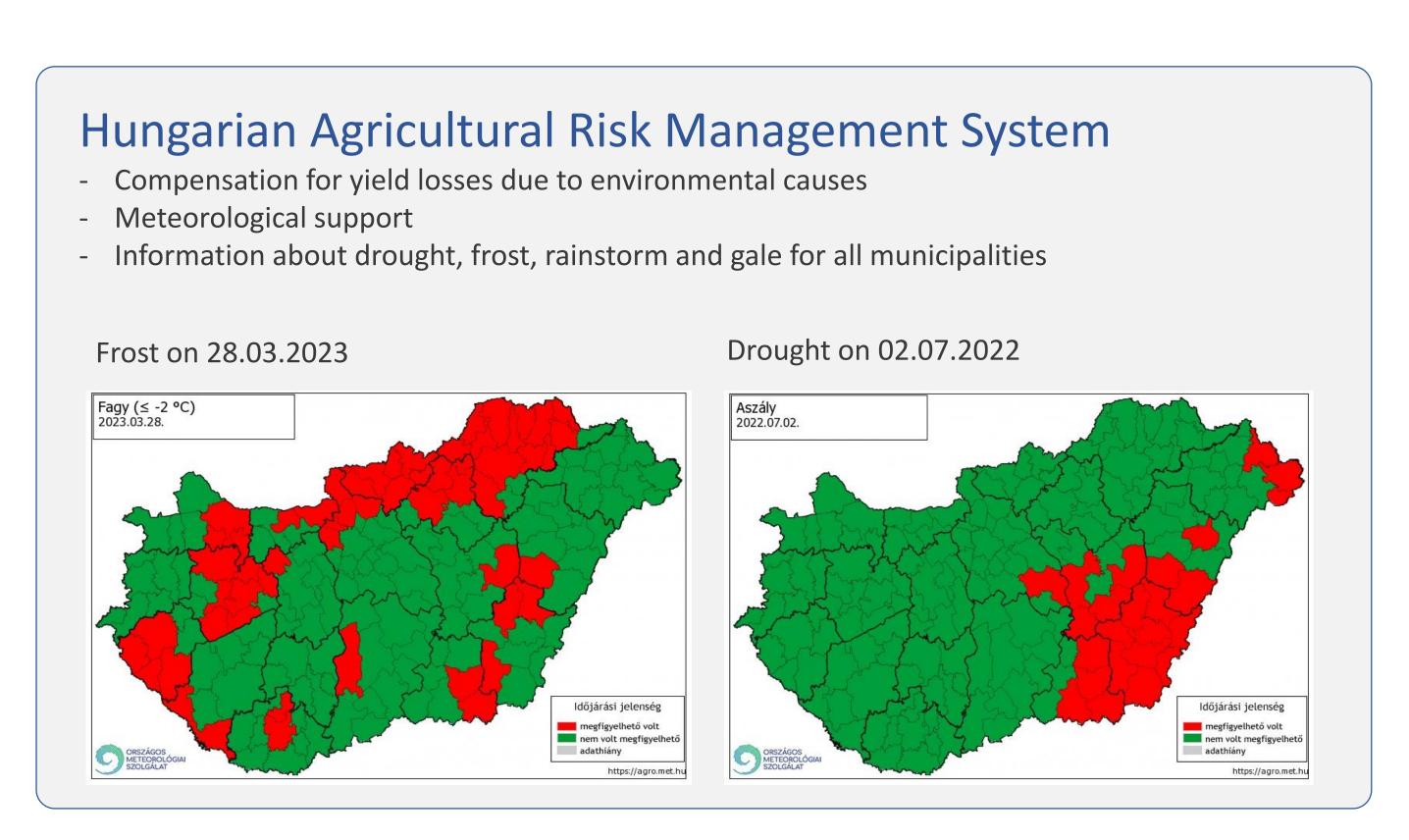




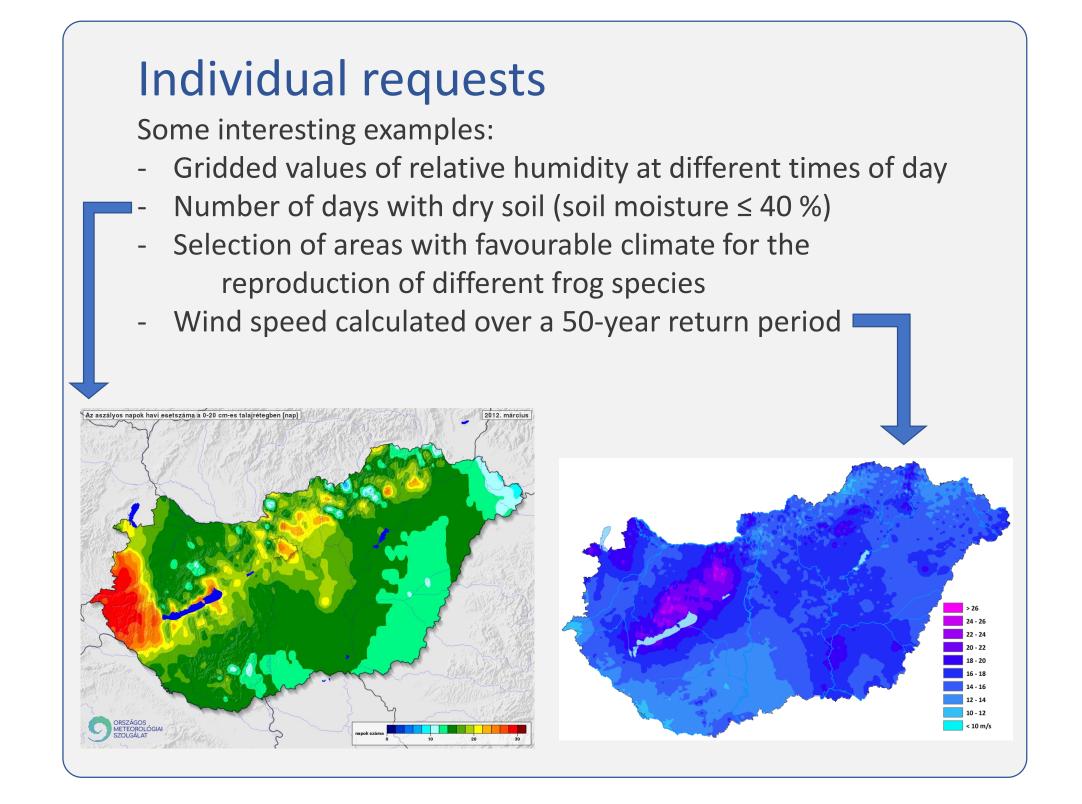




Agrometeorological analyzes Calculated soil moisture in different depths Agricultural drought information based on soil moisture Growing Dergee Days for maize Soil moisture in 0-20 cm depth, GDD, 27.04.2022 26.04.2023 Agricultural drought, 17.08.2022 ORSZÁGOS METEOROLG SZOLGÁLAT



KlimAdat - Geo-information system supporting climate change impact studies Both measured and modelled climate parameters - 1971-2071 Maximum number of consecutive frost days



Future plans

- New climate.met.hu webpage
- New climate atlas (1991-2020)
- Interpolation of 10 minutes values by MISH for the website
- Continuation of CARPATCLIM

