

Global Change Research Institute AS CR, v.v.i.

Which products/tasks do you focus on

- Task 1.3: Update of the QC procedure
 WP1 – MetQC method and software
- Task 4.1: Outreach in periodic bulletins and interaction with the C3S Climate Intelligence Team
 WP4 - GIDMoS - Global integrated drought monitoring system

Which specific expertise do you bring in

- own method for QC, application of homogenization methods
- Soil moisture modelling (model SoilClim) -> GIDMoS

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In which activities do you want to collaborate or do you need support

- WP1 - data quality control and homogenization
- WP4 - contribution to periodic bulletins with drought monitoring and outlook (medium range and long range forecasts)
 - here we are able to contribute (support) also with basic meteorological elements (since this is available through our drought monitoring system), and in perspective of Europe or the whole world
 - combination of in-situ measurements (ECAD and E-OBS) and model (re-analysis and forecast) outputs, and possibly finding discrepancies between these data sources

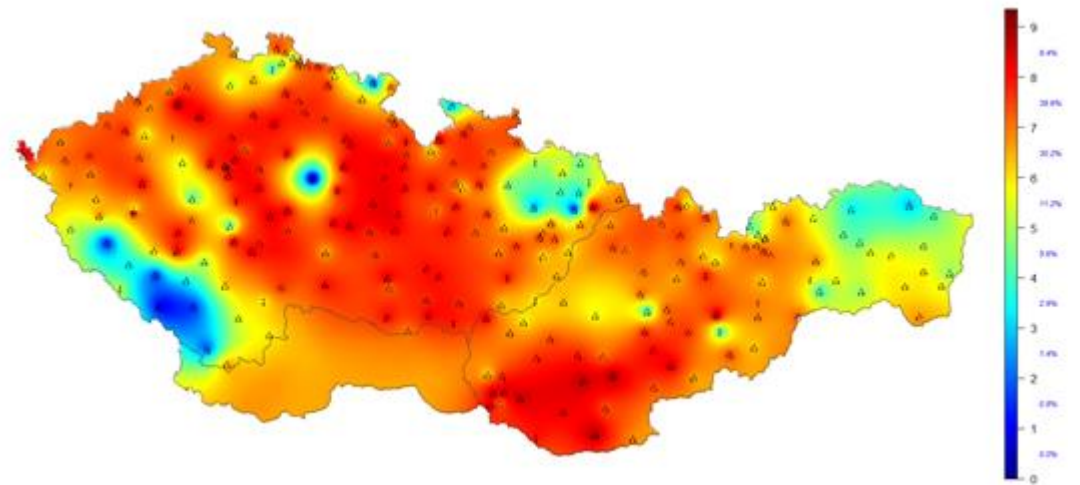
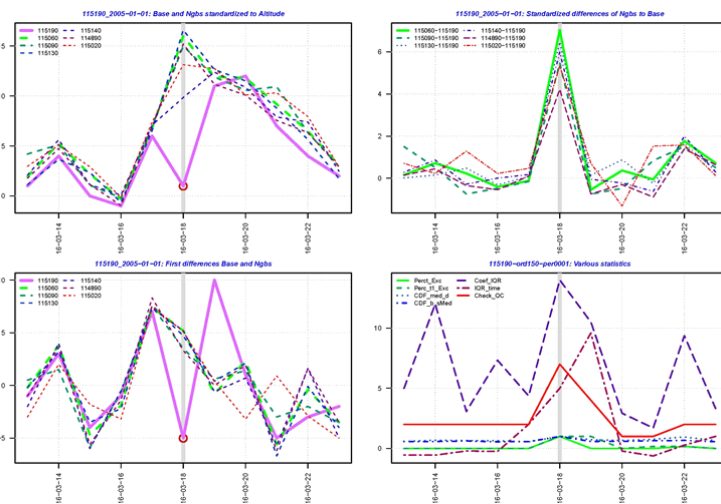
Which risks do you see regarding certain activities/deliverables

- methodology for both tasks is developed and run routinely at our institute

How does the project fit in the perspective of your institute

- sharing data and products with public

- Enhancements of MetQC
 - adding and analyzing **other** meteorological **elements** and **phenomenons**
 - **tables** with suspicious values ordered according to its relevance
 - automated generation of **maps** with suspicious values
- run at CHMI in the **operational mode** for several years
 - automation through combination of several methods
 - tuned for all meteorological elements
 - in daily but newly also in **hourly** time step



GIDMoS – Global integrated drought monitoring system

Drought intensity

Based on ERA5-Land (history)
and IFS NWP model (outlook)

Water deficit

