SCERIN Next Steps - Proposed NEW Activities

1) SCERIN website updates (Jana Albrechtova)

2) Hyperspectral data catalog (Lucie Kupková, Petya Campbell)

3) Thermal comparison of urban heat island effects – comparing across SCERIN in GEE (Olga Brovkina)

4) Water scarcity and LCLUC (Sean Woznicki)

5) Essential Biophysical Variables processed from the TOA Sentinel-3 catalogue in Google Earth Engine – application for selected areas in SCERIN (David Kovacs)

6) SCERIN National hubs of excellence (Ioannis Manakos)

1) SCERIN website updates (Jana will e-mail Google form with questions)

Name:

SCERIN Country Association:

Affiliation / s :

Short bio-sketch (2-3 sentences):

SCERIN Focus groups (please select from FG1-FG5)

Focus (key words):

Contact:

Link to web page(s):

Scientific identifiers:

Additional information:

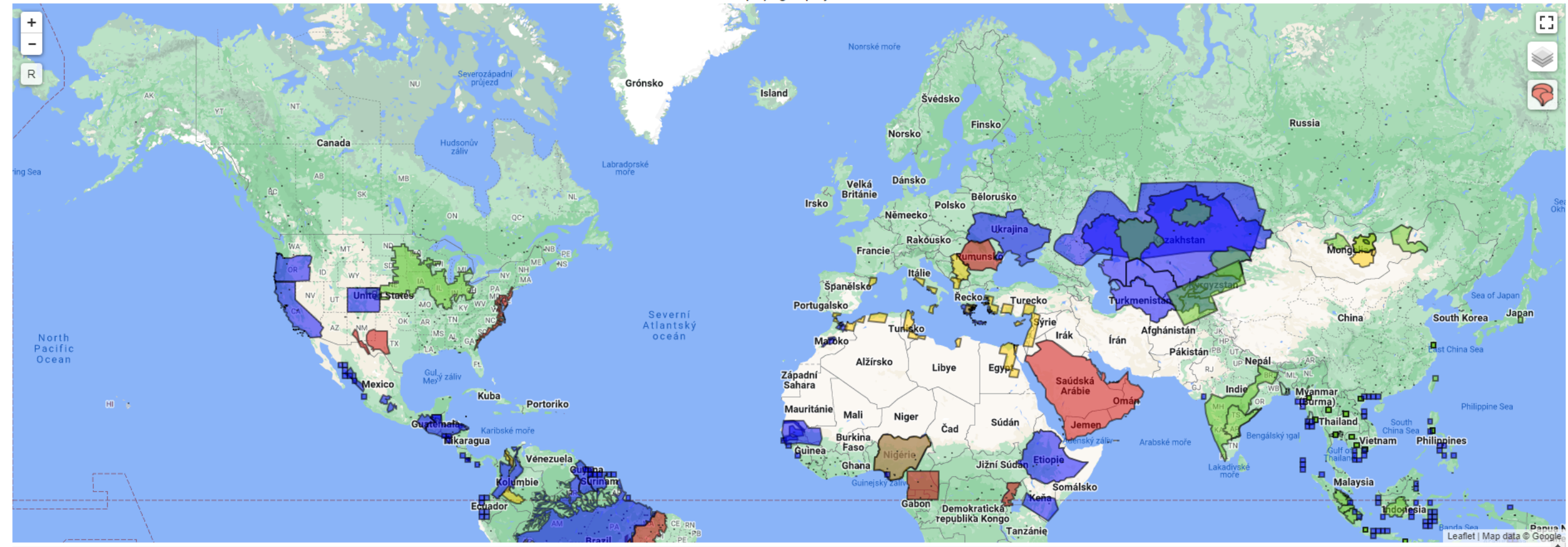Photo – not obligatory

www.scerin.eu

New database of SCERIN participants

lcluc.umd.edu/content/projects-research-area-map-v2

2023

Apply

Current year ■ Started 1 year ago ■ Started 2 years ago ■ Started 3 years ago ■

Click on research area polygon to highlight project title under the map section. Click on the project title below to view the research area polygon.
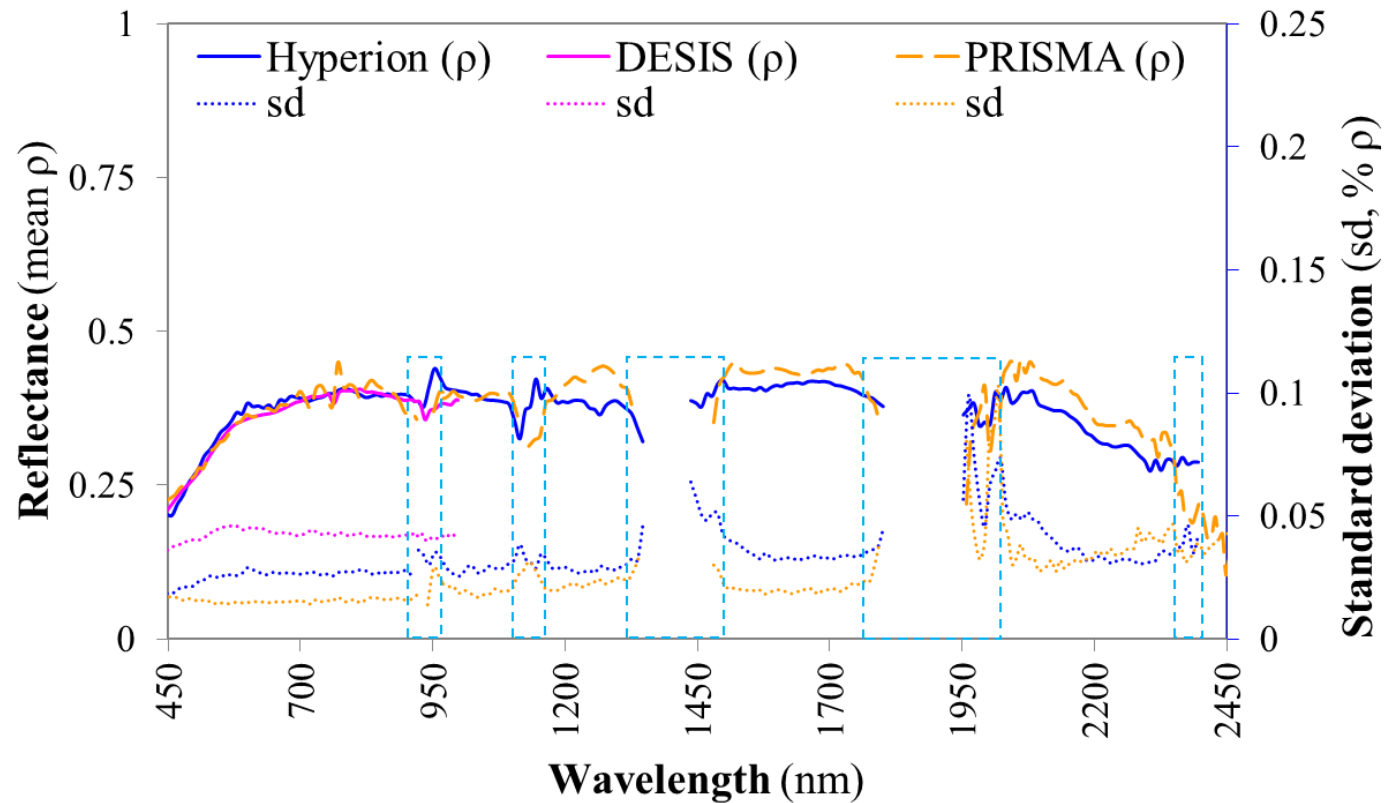
Displaying 43 projects

Leaflet | Map data © Google

Geoffrey Henebry	Institutional Forcings on Agricultural Landscapes in Post-Socialist Europe: Diachronic Hotspot Analysis of CAP Influences on Agricultural Land Use in Romania 2002-2024	01/25/2023	01/24/2026	Details..
Jamon Van Den Hoek	Multi-sensor Mapping of Refugee Agricultural LCLUC Hotspots in Uganda	01/23/2023	01/22/2026	Details..
Lin Yan	Drivers and constraints of land cover land use change in Asian aquaculture hotspots	01/01/2023	12/31/2025	Details..
Xiao-Peng Song	Energy LCLUC hotspot: Characterizing the dynamics of energy land use and assessing environmental impacts in the Permian Basin	01/01/2023	12/31/2025	Details..

3) Thermal comparison of urban heat island effects –
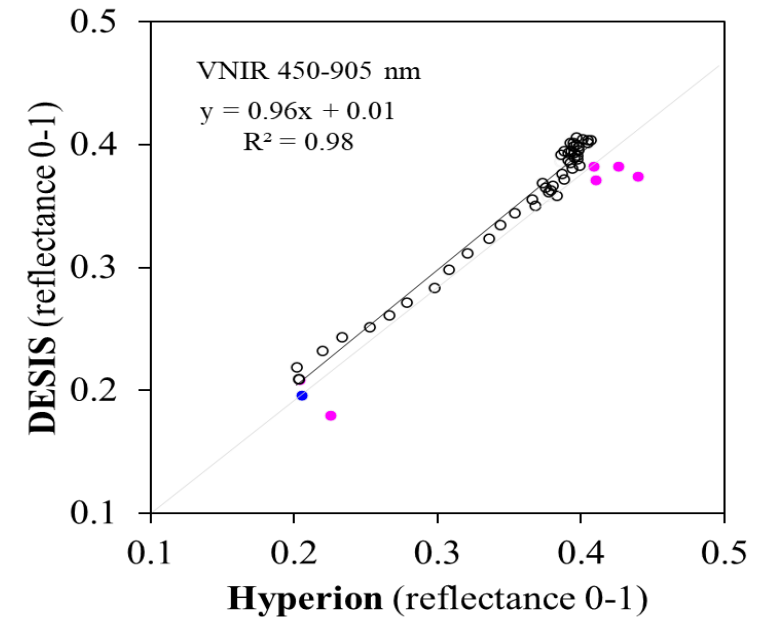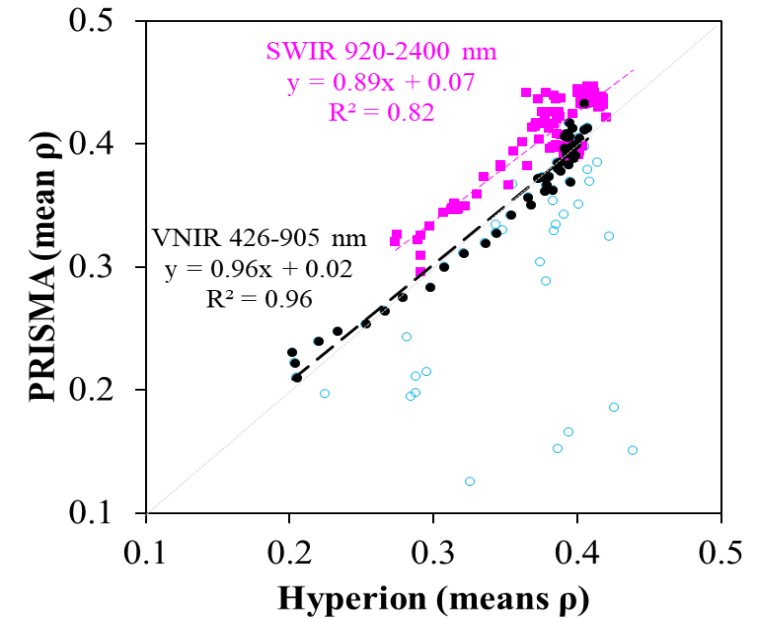
Urban heat island effect FG
timeframe: mid July
Olga and Franta to follow

- comparing across SCERIN in GEE (Olga Brovkina)
  - Compare water reservoirs and cities

  - Compare SCERIN cities – just select a large area of all cities and compare the trends (Petya – whole cities or same size areas?)

2) Hyperspectral data catalog and time series (Lucie Kupková, Petya)

- Compare sensor radiometric response (Petya)
- Organize catalogue and timeseries

SWIR 920-2400 nm
y = 0.89x + 0.07
R² = 0.82

VNIR 426-905 nm
y = 0.96x + 0.02
R² = 0.96

VNIR 450-905 nm
y = 0.96x + 0.01
R² = 0.98

4) Water scarcity and LCLUC (Sean Woznicki)

- Cumulative impacts of land use and climate change on hydrology and water quality

- Pre- and post-fire hydrology and water quality (in the context of Czech fire presentations)

5) Essential Biophysical Variables processed from the TOA Sentinel-3 catalogue in Google Earth Engine – application for selected areas in SCERIN (David Kovacs)

- Areas to compare in SCERIN - ?

- Test case biophysical variable comparison with PRISMA data (Petya)