Analyzing Remote Sensing Data with R

Getting Started

This Github repository lists the preparatory steps in advance of the workshop, and contains the practice exercises that will be covered.

Required Software

Each workshop participant should do the following on her laptop:

- Install a recent version of `R`, for your operating system from CRAN
- Windows users should add the Rtools toolchain from:
    - RTools
    - matching the version of `R` that was installed
- Install RStudio™ from Posit
- Once `R` is installed, the following packages should also be added:
    - `terra`, `sf`, `remotes`, `CDSE`, `rOPTRAM`
    - At the R command line, run:
    - `install.packages(c("terra", "sf", "remotes"), dependencies = TRUE)`
    - `remotes::install_github("zivankaraman/CDSE")`
    - `remotes::install_github("ropensci/rOPTRAM")`

Exercise data

Each participant can download the exercises and data in advance in one of three ways:

- Particpants who are familiar with `git` can clone the repository:

`git clone https://github.com/micha-silver/elter-2025-R-workshop.git`

- The same result can be achieved within RStudio™ by starting a new `git` based project, pointing to the same repository;

- Otherwise, the workshop material can be downloaded as a zip archive from here

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eLTER Workshop-Analyzing Remote Sensing Data in R

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