

Module Phenology - Session 2

Geoprocessing III - 2025

Spatio-temporal applications in ecology using R

Fabian Bernhard & Koen Hufkens 2025-05-22

Recap

- · questions?
- · issues?

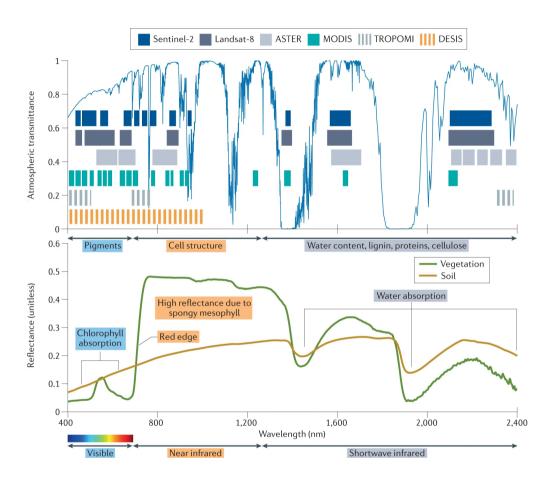


Recap

- each time you render a *• Rmd, all cells are run
- install.packages("..."): do this only once, not in *.Rmd
- library(...): do this in each *.Rmd or *.R you need that package
- · Use the Tab button to complete function-, column-, or path-names
- Use ?<fct> or ??<fct>, e.g ??mutate to learn about what a function does and how to use it.

(What are the names of the arguments?)

Multi-spectral data

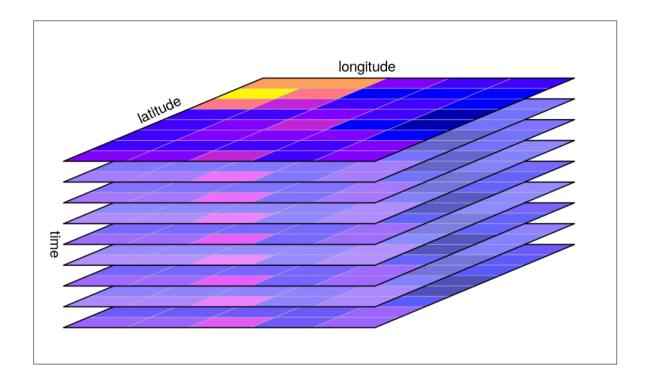


Zeng et al. 2022

Vegetation indices

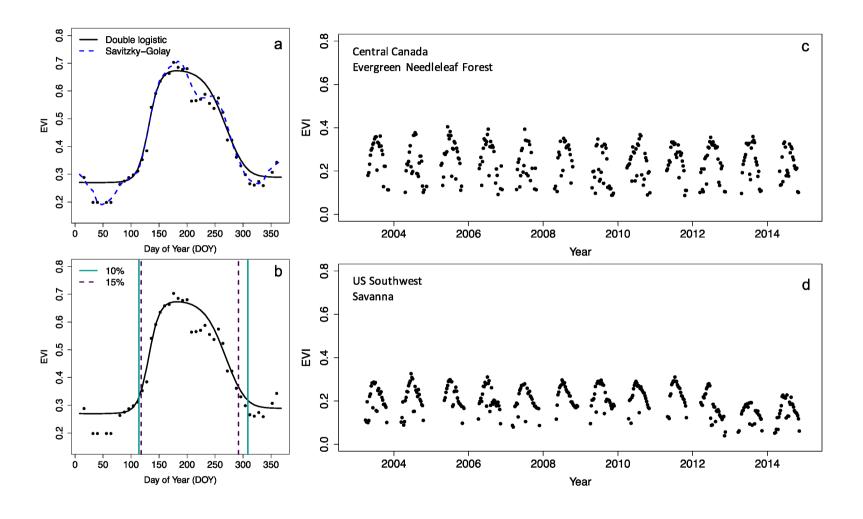
- NDVI (normalized difference vegetation index)
- EVI (enhanced vegetation index)
- LAI (leaf area index)

Multi-band / temporal data



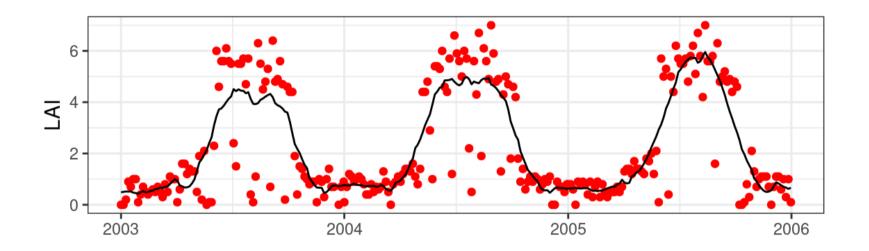
by Edzer Pebesma

Multi-band / temporal data





Multi-band / temporal data





Finalizing

- Thank you for your participiation!
- Hand-in of zipped project folder through ILIAS by June 05th
 - Exercises 7.1.1 and 7.1.2. (7.1.3 is not mandatory)
 - Contain (.Rmd and .html) in subfolder vignette/
 - Contain data in subfolder data/
- Looking for a Master thesis?
 https://geco-group.org/joinus/