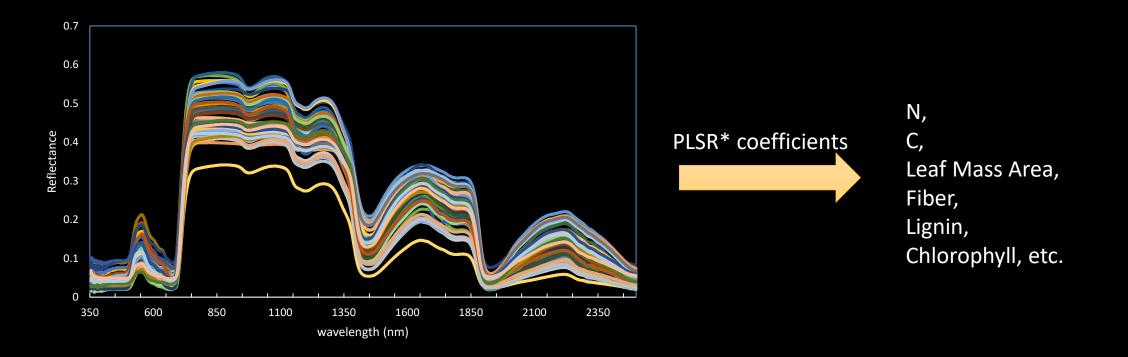
# EcoSIS and EcoSML: Biodiversity Team Meeting 2019

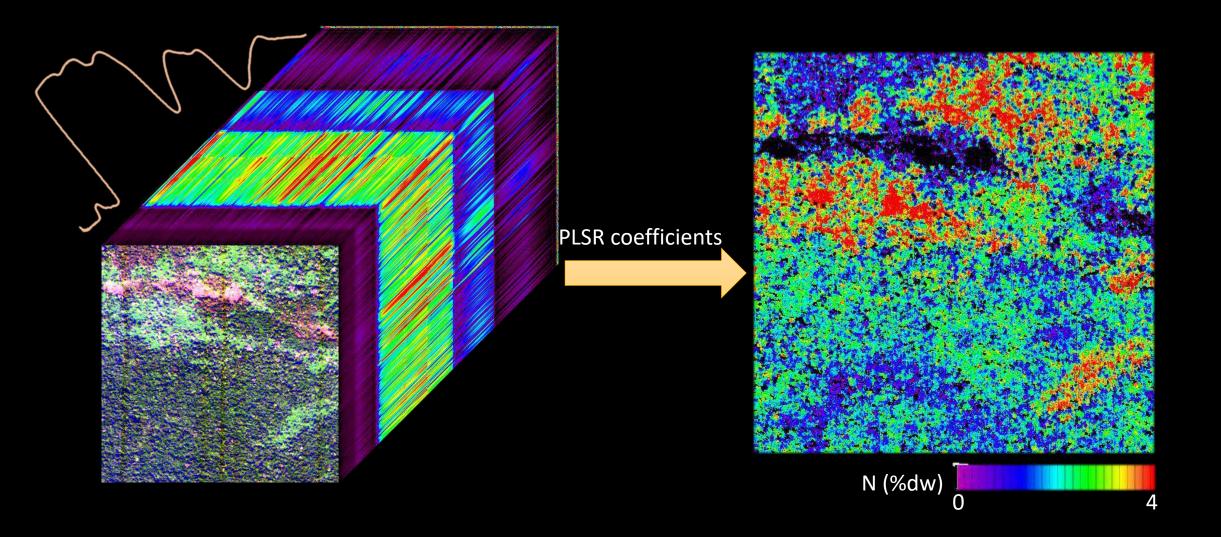
Ting Zheng, Erin Hokanson Wagner, Justin Merz, Phil Townsend

## From leaf reflectance to leaf traits



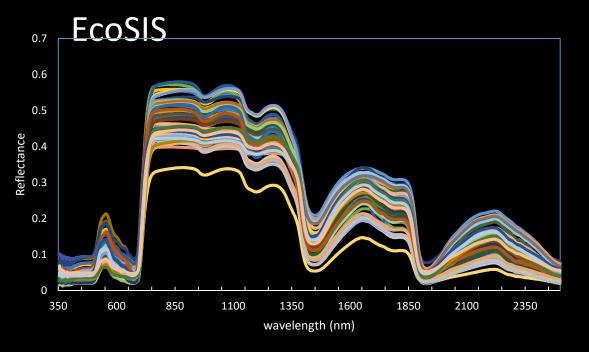
\*: partial least squares regression, a widely adapted method to predict traits based on reflectance.

## From hyperspectral images to trait maps

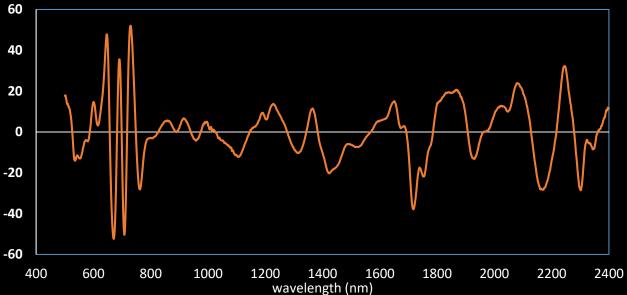


#### EcoSIS and EcoSML

• For reflectance and lab measured traits:



• For PLS models: EcoSML



# You will learn:

Session 1

- Search and download data from EcoSIS
- Upload your own data to EcoSIS

Session 2

- Apply models from EcoSML to leaf reflectance to predict traits
- Upload your model to EcoSML

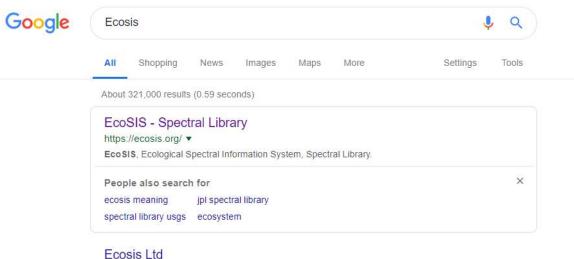
# You will need:

- A laptop
- Python 3 (with numpy, pandas, glob) for applying the model(Session 2)

## Where are we starting:

- For EcoSIS:
- https://ecosis.org/

#### Or google: EcoSIS



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# **EcoSIS** Tutorial

<u>http://tutorial.ecosis.org/</u>