Instruction for VHRODA training session

In this training we will be using two web application resources: Google colab for computing (<https://colab.google/>) and Wooclap ( https://app.wooclap.com/) for interactive part (Exercise questions and answer )

## **REQUIREMENTS:**

* Personal computer/Laptop
* WIFI
* Sample Hyperspectral data from PANTHYR (nc files provided here)
* Dataset from Ruddick et al 2024: WATERHYPERNET: a prototype network of automated *in situ* measurements of hyperspectral water reflectance for satellite validation and water quality monitoring. The data to be used in this training is Data Sheet 1.CSV**,** can be downloaded with this link (<https://www.frontiersin.org/journals/remote-sensing/articles/10.3389/frsen.2024.1347520/full#supplementary-material>) (provided here)

## **Colab Notebooks folder/file list:**

* Jupyter notebook
  + 01\_EXERCISE\_VHRODA\_WATERHYPENET.ipynb
  + 02\_EXERCISE\_VHRODA\_WATERHYPERNET\_S2matchup.ipynb
* Dataset
  + PANTHYR\_W\_O1BE\_L1C\_ALL\_20230429T144006\_270\_20230925T231650\_v20230717\_QA.nc
  + PANTHYR\_W\_O1BE\_L2A\_REF\_20230429T144006\_270\_20230925T231650\_v20230717\_QA.nc,
  + Data Sheet 1. CSV

## Web application resources

## **GOOGLE Colab**

In this exercise, we will be using Google Colab (<https://research.google.com/colaboratory/faq.html>), there’s no prior set-up necessary but we expect you to have a **google account** to access this computing resource.

The Colab jupyter notebook will be shared to participants before the workshop session.

Jupyter notebook will be shared via link/email with “viewer” access. They can run the notebook but cannot save any changes they made. To keep any changes, they should make a copy of the notebook in their google drive.

## **Wooclap** (<https://app.wooclap.com/>)

To make this workshop more interactive, trainees are encouraged to participate in answering questions posted in wooclap.

You can participate using laptop or smartphone

1. Navigate to<https://app.wooclap.com/> then enter the event code wait until the questions are displayed

1. Scan the qr code [then enter the event code] wait until the questions are displayed

Participation link: [app.wooclap.com/**DQKJTK**?from=instruction-slide](http://app.wooclap.com/DQKJTK?from=instruction-slide)