





Join the session $\underline{\text{here}}$ - Passcode: FVQtEE

EVERY THURSDAY, FROM 18th JANUARY TO 2nd MAY 2024, 16.00-17.00 CET

CONTACT: For more information, contact Pengyu Hao at pengyu.hao@fao.org or Gianluca Franceschini at gianluca.franceschini@fao.org

FOR WHO?

The course is dedicated to beginner users that want to understand how to write scripts in Google Earth Engine to boost their remote sensing analysis. A basic understanding of remote sensing is required; familiarity with scripts is a plus.

TRAINING STRUCTURE

1. Introduction to GEE (Google Earth Engine)

Installation, set-up, interface, first script, and share, update existing scripts, including a brief introduction about the GEE data catalog.

18 January 2024

2. Image and Image Collection

2-1. Introduction to Image & Image Collection, data catalog and loading data	25 January 2024
2-2. Image collections & image, properties, visualization	1 February 2024
2-3 & 2-4. Main functions (e.g. math operation and conditional operation,	,
selection & filter, mask)	8 & 15 February 202

3. Feature and feature collection

3-1. Intro to Feature & Feature Collection, Feature collections	22 February 2024
& Feature property and visualization	
3-2. Feature/Feature collection main function (GIS analysis, extract data from	29 February 2024
images, zonal analysis)	

4. Reducers

Introduction to Reducers (e.g. image Collection reducer, image reducer, statistics)

7 March 2024

5. Functions

5-1. Simple functions (e.g. NDVI)	14 March 2024
5-2. Complex functions (e.g. cloud removals, monthly anomaly)	21 March 2024

6. Map (loop), iterate and other ways for loops in GEE

6-1. Map for Image Collection/Feature Collection/List (e.g. time series data)	28 March 2024
6-2. Iterate for Image Collection/Feature Collection/List	4 April 2024

7. SAR

7-1. Introduction to SAR images	11 April 2024
7-2. SAR images properties, visualization	18 April 2024
7-3. Pre-process of SAR images, combining optical and radar images	25 April 2024

8. Troubleshooting

Solutions to script problems

2 May 2024