



International Geoscience and Remote Sensing Symposium

# IGARSS 2022

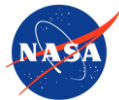
Kuala Lumpur, Malaysia



## Tutorial FD-5

# Open Science with EO Dashboard

Using open data, platform, and API from the NASA-ESA-JAXA EO Dashboard (17 July 2022 | 09:00 - 15:30)



This tutorial will introduce participants to the EO Dashboard project developed by NASA, ESA (the European Space Agency), and JAXA (Japan Aerospace Exploration Agency). Three agencies promote to use EO data to young scientists / engineers through EO dashboard and offer student physical participation of students without tutorial fee up to 25 (TBD) participants (First come, first served)

About registration to this free tutorial, please follow the following steps

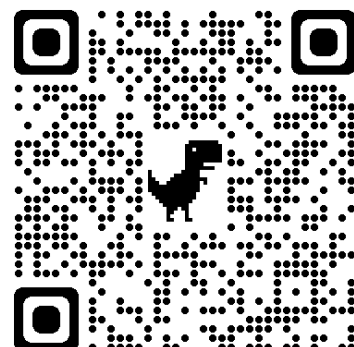
1. Applicant sent an email request for Tutorial FD5 fee waiver to tutorial co-chairs (<mailto:nurulhazrina@utm.my>, <mailto:shazmin@unimap.edu.my>) and cc to (<mailto:lcotton@securecms.com>)
2. We will provide a special registration code to applicant.
3. Applicant register at [<https://igarss2022.org/tutorials.php#tut14>]

In this tutorial, participants will learn:

- about the collaboration and the EO Dashboard
- how to use the EO Dashboard for collaborative geo-storytelling
- how to use the Euro Data Cube platform, NASA APIs and JAXA OGC based Web Map Server to access EO and other geospatial data used in EO Dashboard
- how to build EO-based indicators for global environmental change
- examples of indicators and storytelling on atmospheric composition, agriculture, and economy

Speakers:

- Manil Maskey, Barry Leffer - NASA
- Anca Anghelca - ESA
- Naoko Sugita, Shinichi Sobue - JAXA
- Leo Thomas - Developmentseed
- Alessandro Scremin - Rheagroup
- Michihiro Koide, Kaori Kuroiwa - RESTEC





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## Preliminary Agenda:

09:00	N. Sugita (JAXA)	NASA-ESA-JAXA EO Dashboard Collaboration	presentation
09:30	A. Anghela (ESA)	EO Dashboard Collaborative Storytelling	demo
09:45	M. Maskey (NASA)	EO Data sources	presentation
10:15	COFFEE		
10:30	A. Scremin (RHEA)	Introduction to Euro Data Cube	presentation demo
10:45	A. Scremin (RHEA)	Jupyter Notebook - Data Access	exercise
11:15	B. Leffer (NASA)	Atmospheric composition storytelling	presentation demo
11:45	A. Scremin (RHEA) / L. Thomas (Devseed)/ M. Koide (RESTEC)	Jupyter Notebook - Atmospheric composition (australian bushfires)	exercise
12:15	A. Scremin (RHEA) / L. Thomas (Devseed)/ M. Koide (RESTEC)	Jupyter Notebook - Lockdown in Venice	exercise
12:45	LUNCH BREAK		
14:00	S. Sobue (JAXA)/ K. Kuroiwa (RESTEC)	Agriculture storytelling QGIS exercise	presentation demo
14:30	M. Maskey (NASA)/ Anca Anghela (ESA)	Economy storytelling	presentation demo
15:00	A. Scremin (RHEA) / L. Thomas (Devseed)/ M. Koide (RESTEC)	Jupyter Notebook - Economy (truck & ship detection)	exercise
16:00	end of tutorial		

Note: for the **exercises**, participants will have to bring their own laptops.

**!!!** To run the exercises on the tutorial platform, please activate your Euro Data Cube tutorial account **before July 13** here: <https://eurodatacube.com/participate?event=igarss22> **!!!**