



**OEMC GLOBAL
WORKSHOP
2023**

- PROGRAM -

Day 1: Wednesday October 4, 2023

Time	Auditorium room	Conference room	Seminar room 2 & 3
14:00 - 15:15	<p>“Welcome Plenary” by Tomislav Hengl and Alexander Jacob</p> <p>—</p> <p>“Open Earth Observation - Shaping the future by understanding the past” by Dr. Julia Wagemann</p> <p>—</p> <p>“Earth Observation Open Science and Innovation” by Anca Angheloa</p>		
15:15 - 15:45	COFFEE BREAK		
15:45 - 17:15	<p>“GEOSS Platform Plus: European efforts to reinforce the use of Earth Observations globally” by Alessandro Scremin</p> <p>—</p> <p>“Copernicus data space ecosystem: immediately available data and associated services” by Jędrzej Bojanowski</p> <p>—</p> <p>European platforms to support the EU Green Deal” by Benjamin Schumacher</p>	<p>“Global Analysis-Ready and Cloud-Optimized (ARCO) Landsat Mosaics: Challenges and implementation strategies” by Leandro Leal Parente</p> <p>—</p> <p>“Monitoring the Earth System with xcube” by Gunnar Brandt, Tonio Fincke</p> <p>—</p> <p>“The Hydrography90m dataset: present offering and future scope” by Tushar Sethi</p>	<p>“Reproducible and Reusable Remote Sensing Workflows” by Edzer Pebesma, Anca Angheloa, and Peter Zellner</p> <p>—</p> <p>“Distributed computing on large geodata from multiple sources using the Julia Programming language” by Felix Cremer, and Daniel Loos</p>

18:00-21:00	SOCIAL EVENT
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Day 2: Thursday October 5, 2023

Time	Auditorium room	Conference room	Seminar room 2 & 3
9:00 - 10:30	<p>DestinE Core Service Platform by Inés Sanz Morère</p> <p>—</p> <p>Analysis Ready Data by Peter Strobl</p> <p>—</p> <p>“Aggregating multiple emissions data for actors at all levels through a common schema in OpenClimate” by Joaquin van Peborgh</p>		
10:30 -11:15	<p>COFFEE BREAK with POSTER SESSIONS:</p> <p>“Integrating Sentinel-1 Data into FORCE for Large-Area Analysis Ready SAR Data Cubes” by Felix Lobert and Tom Broeg</p> <p>—</p> <p>“A Cloud-native Data Platform for Management and Processing of Big Geospatial Data” by Monia Santini and Melissa Latella</p> <p>—</p> <p>“AquaINFRA for blue research interlinking EOSC ecosystem with Green Deal data space” by Kaori Otsu</p> <p>—</p> <p>“Advancing Earth Observation knowledge management through machine learning and semantic interoperability for EU policy support” by Dominik Weckmüller and Iacopo Ferrario</p> <p>—</p> <p>“The ICOS ecosystem in-situ measurements portfolio” by Simone Sabbatini</p>		

<p>11:15 - 12:45</p>	<p>“Estimation of urban heat island integrating IoT sensors and EO thermal open data” by Raniero Beber</p> <p>—</p> <p>“From low-cost AirQuality stations to open standard (OGC SensorThings) and open data with open source solutions (FROST + QGIS plugin for sensors)” by Luca Giovannini</p> <p>—</p> <p>“Towards a better estimation of GPP for greenhouse gas accounting through the combined use of SIF, spherical grids and knowledge-guided AI” by Gregory Duveiller</p>	<p>“Build and visualize your own raster data cube”</p> <p>by Leandro Parente, Murat Sahin</p>	<p>“GEO Knowledge Hub to preserve and share EO applications: Introduction and practice” by Felipe Carlos</p> <p>—</p> <p>“Let's co-create the Green Deal Data Space”</p> <p>by Joan Maso</p>
<p>12:45 - 13:45</p>	<p style="text-align: center;">LUNCH BREAK</p>		

13:45 - 15:15	<p>“Mapping land potential and tracking land degradation using EO data” by Julia Hackländer</p> <p>—</p> <p>“Use of airborne hyperspectral images in support to Alpine forest managers” by Thomas Maffei</p> <p>—</p> <p>“Machine learning ensembles for scalable crop yield modeling: Leveraging earth observation and a cloud-integrated spatial data infrastructure to support agricultural statistics” by Patric Brandt</p> <p>—</p> <p>“Towards a large-scale tool for estimating potential land-cover impacts from Remote Sensing” by Daniel E. Pabon-Moreno</p>	<p>“OpenEO in action. Learn how to get started with openEO via the Web Editor, Python and R.” by Peter Zellner, Michele Claus</p>	<p>“Building a Digital Twin Earth for the Water Cycle: State of the Art and Challenges” by Luca Brocca</p> <p>—</p> <p>“Tools for Long Time-Series Processing For Alpine Environments Monitoring” by Daniele Marinelli, Davide Andreatta</p>
15:15 - 16:00	<p style="text-align: center;">COFFEE BREAK with POSTER SESSIONS:</p> <p style="text-align: center;">“OSS4gEO: a FOSS4G resources platform initiative” by Codrina Maria Illie and Vasile Crăciunescu</p> <p style="text-align: center;">—</p> <p style="text-align: center;">“Contribution of in-situ observations to the Open-Earth-Monitor Cyberinfrastructure project” by Simone Sabbatini</p> <p style="text-align: center;">—</p> <p style="text-align: center;">“DGGS.jl: Towards global equal area evolutions using discrete global grid systems in Julia” by Daniel Loos</p> <p style="text-align: center;">—</p> <p style="text-align: center;">“EO-based Use Cases for EU Policy Support” by Candan Eylül Kilsedar, Iacopo Ferrario and, Ilaria Gliottone</p>		

16:00 - 17:30	<p>“Integrated data-driven analysis of climate, biosphere and socio-economic co-variability: towards a planetary health index” by Wantong Li</p> <p>—</p> <p>“Airborne-based multi-modal geospatial data for local Green Deal” by Raniero Beber</p> <p>—</p> <p>“The System of Environmental Economic Accounting: connecting spatial data and users” by Arnan Azara</p>	<p>“Machine Learning tools and systems support for EO data processing and applications” by Stathes Hadjiefthymiades</p>	<p>“OpenLandMap: Global ARCO environmental layers” by Tom Hengl</p>
18:00-21:00	SOCIAL EVENT		

Day 3: Friday October 6, 2023

Time	Auditorium room	Conference room	Seminar room 2 & 3
9:00 - 10:30	<p>“Monitoring deforestation in Amazonia: transitioning from visual interpretation to satellite time series analysis” by Gilberto Camara</p> <p>—</p> <p>“Global Land use and Land Cover monitoring: From Data to Impact” by Lindsey Sloat</p> <p>—</p> <p>“The ESA Green Transition Information Factories - using Earth Observation and cloud-based analytics to address the Green Transition information needs.” by Patrick Griffiths</p>		
10:30 - 11:15	<p style="text-align: center;">COFFEE BREAK with POSTER SESSIONS:</p> <p style="text-align: center;">“Monitoring Cropland SOC with Bare Soil Data Cubess” by Felix Lobert and Tom Broeg</p> <p style="text-align: center;">—</p> <p style="text-align: center;">“Streamlining forest disturbance monitoring over large areas with the nrt python package” by Loïc Dutrieux</p> <p style="text-align: center;">—</p> <p style="text-align: center;">“SDGs-EYES: Strengthening the Monitoring of Sustainable Development Goals through Copernicus Programme” by Monia Santini and Melissa Latella</p>		

11:15 - 12:45	<p>“Monitoring Biodiversity in Agricultural Supply Chain: an Irish Case Study” by Cian White</p> <p>—</p> <p>“Biodiversity data cubes: spatial aggregation and uncertainty” by Damiano Oldoni</p> <p>—</p> <p>“Novel practical tools for the environmental management of natural parks” by Luca Giovannini</p>	<p>“FAIR geospatial data: what stakeholders need and expect” by Nuno Queiroz Mesquita Caser de Sa</p>	<p>“In-situ Citizen Science Data for Training and Validation of the OEMC Monitors and other EO Mapping Models” by Milutin Milenkovic, Johannes Reiche</p> <p>—</p> <p>“EcoDataCube.eu: An open environmental data cube for Europe” by Martijn Witjes</p>
12:45 - 1:45	LUNCH BREAK		
13:45 - 15:15	<p>“Mapping the diversity of land use following deforestation across Africa with active learning” by Robert Masolele</p> <p>—</p> <p>“Forest loss mapping based on Sentinel-1 time series” by Felix Cremer, Fabian Gans</p> <p>—</p> <p>“Overcoming Data Scarcity in Land Use Monitoring with Time-Weighted Dynamic Time Warping” by Victor Maus</p>		<p>“Predicting the future Earth under climate scenarios: an R tutorial” by Carmelo Bonannella</p> <p>—</p> <p>“Using spatial data to build a nested climate accounting network” by Joaquin van Peborgh</p>

15:15 - 16:00	COFFEE BREAK		
16:00 - 17:30	Announcement of Hackathon winners and presentation of solutions by Mohammad Hussein, Suriyah Dhinakaran, Hayri Latif — “Open Science in a Time of Environmental Crisis” by Alessandro Cescatti — Closing Plenary by Tom Hengl		
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