

12-Oct A: Addressing new Challenges & Opportunities of EO Open Science 2.0
Introduction from ESA

09:00	Welcome	Maurice Borgeaud, ESA
09:10	Objectives and Organisation	Yves-Louis Desnos, ESA

A.1 A new era for Open Science and Earth Observation -chair: M. A. Brovelli, Politecnico di Milano [Magellan]

09:30	Enabling the transition towards Earth Observation Science 2.0	Alan O'Neil, University of Reading
10:00	Using Satellite, UAV and Citizen Data for Flood Management in Dar es Salaam Tanzania	Edward Anderson, The World Bank
10:15	SNAP the sentinel application platform	Carsten Brockmann, Brockmann Consult GmbH
10:30	EO information as a service to citizens regarding the quality of life in cities	Constantinos Cartalis, University of Athens
10:45	NASA Web WorldWind: welcome to the new era of virtual globes	Maria Antonia Brovelli, Politecnico di Milano

 11:00 *Coffee Break*
A.1 A new era for Open Science and Earth Observation (continuation) -chair: M. A. Brovelli, Politecnico di Milano [Magellan]

11:30	Earth observation for the 21st century	Conor O'Sullivan, Satellite Applications Catapult
11:45	The Community Intercomparison Suite: an open-source toolbox	Duncan Watson-Parris, University of Oxford
12:00	Urban area monitoring in Google Earth Engine	Paolo Gamba, University of Pavia
12:15	The support of Earth Observation to Future Earth	Mario Hernandez, Future Earth
12:30	From Free and Open Earth Observation Data to Innovative Applications – the MYGEOSS Approach	Elena Roglia European Commission - JRC

 12:45 *Round Table*

 13:15 *Lunch Break*
A.2 Open Innovation and Tools -chair F. Snik, University of Leiden [Magellan]

14:15	Digital innovation for social good	Francesca Bria, Nesta Innovation Lab
14:45	The Copernicus Master Prize and the ESA App Camps	Thomas Beer, ESA
15:00	A live-link on Sentinel data to discover, track changes, inform, train... citizen and scientists.	Serge Riazanoff, VisioTerra
15:15	FMI Image processing tool (FMIPROT)	Ali Nadir Arslan, Finnish Meteorological Institute
15:30	Orfeo ToolBox: free and open-source software for remote sensing images processing	Manuel Grizonnet, CNES

 15:45 *Coffee Break*
A.2 Open Innovation and Tools (continuation) -chair F. Snik, University of Leiden [Magellan]

16:15	ESA's Science Toolbox Exploitation Platform (STEP)	Yves-Louis Desnos, ESA
16:30	The Sentinel-1 toolbox for EO science 2.0	Luis Veci, Array Systems Computing Inc
16:45	Toolbox for analysis of geospatial time series data.	Christoph Paulik, Vienna University of Technology

 17:00 *Round Table*

 17:15 **Jam Session & Cocktail**

 19:15 *End day-1 (12-Oct)*

13-Oct B: Engaging with and across new Communities and the Public
B.1 Citizen Science -chair S. Fritz, IIASA [Magellan]

09:30	Digital Humanitarian in the Sky	Heather Leson, Qatar Computing Research Center
10:00	The use of crowdsourcing, gaming and citizen science to collect land cover information	Steffen Fritz, IIASA
10:15	Effective Earth Observations from ground through citizen observatories	Stuart Wrigley, Uni. Sheffield
10:30	Citizen Science and EO with 1.4 million Zooniverse volunteers	Brooke Simmons, Uni. Oxford
10:45	iSPEX; mapping atmospheric aerosol properties with a citizen science network of smartphone spectropolarimeters	Frans Snik, Uni. Leiden

 11:00 *Coffee Break*
B.1 Citizen Science (continuation) -chair S. Fritz, IIASA [Magellan]

11:30	DIY-Citizen Science: SenseBox and OpenSenseMap	Thomas Bartoschek, Institute for Geoinformatics
11:45	Making sense of crowdsourced observations: Data fusion techniques for real-time mapping of urban air quality	Philipp Schneider, NILU
12:00	Cities at Night: a crowdsourced catalogue and scientific pipeline for the Night time ISS images.	Alejandro Sánchez de Miguel, Uni. Complutense de Madrid
12:15	Geographic citizen science in marine management	Bruce Eleanor, School of Geoscience, Australia
12:30	Crowdsourcing for observations from satellites	Stuart Wrigley, Uni. Sheffield

 12:45 *Round Table*

 13:15 *Lunch Break*
B.2 Earth Science Virtual Research Environment -chair J. Blower, University of Reading [Magellan]

14:15	Environmental Research Infrastructures as enabler of Open Science 2.0	Sanna Sorvari, Finnish Meteorological Institute
14:45	Data-driven unraveling Earth System Dynamics with the Earth System Data Cube	Markus Reichstein, Max-Planck-Institute for Biogeochemistry
15:00	Datacubes as the New Virtual Research Environment Paradigm	Peter Baumann, Jacobs University
15:15	Earth Observation and the Web of Data - how can we join the dots?	Jon Blower, Uni. Reading
15:30	Oceanflux GHG & Ocean Heat Flux : an open collaborative research framework for ocean fluxes	Antoine Grouazel, Ifremer

 15:45 *Coffee Break*
B.2 Earth Science Virtual Research Environment (continuation) -chair J. Blower, University of Reading [Magellan]

16:15	SEOM SY-4SCI Ocean Virtual Laboratory : the synergy amongst Sentinels at your fingertips	Fabrice Collard, OceanDataLab
16:30	A Virtual Research Infrastructure for the Geohazard Supersites and Natural Laboratories community	Stefano Salvi, INGV
16:45	The OPTIRAD Platform: Cloud-hosted IPython Notebooks for collaborative EO Data Analysis and Processing	Philip Kershaw, STFC Rutherford Appleton Laboratory
17:00	Bringing Earth Observation data, software development and information extraction together - Introducing the EODC IT capacities	Mucke Werner, EODC
17:15	Towards massive and systematic exploitation of Satellite SAR data for ground displacement monitoring at global scale	Francesco Casu, CNR - IREA

 17:30 *Round Table*

 18:00 **Jam Session Report**

 18:30 *End day-2 (13-Oct)*

14-Oct C: Education and Communication 2.0
C.1A Scientific Communication and Visualisation -chair R. Meisner, ESA [Magellan]

09:00	Making the most of Earth Observation through visualisation	Javier de la Torre, Cartodb
09:30	The CCI Visualisation Corner	Philip Eales, Planetary Visions Limited
09:45	How to build inspiring digital products to visualise Earth Observation Data.	Craig Mills, Vizzuality
10:00	NASA World Wind, World Data Viewer	Patrick Hogan, NASA
10:15	Geospatial User Feedback as a Form of Alternative Scientific Digital Reputation	Joan Masó, CREAM
10:30	Visualization and animation for use in ESA communication	Robert Meisner, ESA
10:45	<i>Round Table</i>	
11:15	<i>Coffee break</i>	

C.1B Exploitation Platforms -chairs S. Loekken and G. Campbell, ESA [Big Hall]

09:00	The ESA Thematic Exploitation Platforms	Sveinung Loekken, ESA
09:30	The ESA Geohazards TEP	Philippe Bally, ESA
09:45	Thematic Exploitation Platform for Hydrology	Bernat Martinez, isardSAT
10:00	The Coastal Thematic Exploitation Platform: a virtual research center for coastal environment monitoring	Nicolas Gilles, ACRI-ST
10:15	Polar Thematic Exploitation Platform	Andrew Fleming, British Antarctic Survey
10:30	Forestry Thematic Exploitation Platform	Tuomas Häme, VTT
10:45	Earth Observation in the Cloud: Lessons from Landsat on AWS	Jed Sundwall, Amazon Web Services
11:00	<i>Round Table</i>	
11:30	<i>Coffee break</i>	

C.2 Training a new generation of Data Scientist -chair R. Kapur, Imperative Space [Magellan]

11:45	Making the invisible visible - blending data, film, CGI and intuitive apps for training, education and public engagement	Ravi Kapur, Imperative Space
12:15	Earth Observation mission built by a student community	Jaan Praks, Aalto University
12:30	A Roadmap for Earth Observation Education	Valborg Byfield, National Oceanography Centre
12:45	SAR-EDU - The online learning portal for radar remote sensing.	Robert Eckardt, FSU Jena
13:00	PolSARpro V5.0: An ESA Educational, Free and Open Source Toolbox for Polarimetric SAR Data Analysis	Eric Pottier, IETR - University of Rennes 1
13:15	<i>Round Table</i>	
13:45	<i>Lunch Break</i>	

A, B, C Demos and Posters

17:45 Session Reports and Closing of EO Open Science 2.0

14-Oct A, B, C Demos, Posters and Exhibition (14:45 - 17:45) [Big Hall]
A.1 A new era for Open Science and Earth Observation

2	Validation Of Future Internet Technologies For Added Value Precision Agriculture Solutions Based On Satellite Imagery	Jonathan Becedas, AGROESTUDIO TECHNOLOGY
3	Landscape dynamics and heritage risk: the potential impact of Open Science, Earth Observation and Collaborative frameworks on heritage management and policy in the EU	Anthony Beck, University of Nottingham
5	Recent environmental changes in Albania through remote sensing	Neki Frasheri, Polytechnic University of Tirana
6	GC RAS Spherical screen and Orbus software – an effective tool for visualisation geodata and popularization of scientific achievements	Olga Pyatygina, Geophysical center of RAS
7	OpenAerialMap and Open Imagery Network: sustainable solutions for sharing open imagery	Cristiano Giovando, Humanitarian OpenStreetMap Team
8	Phases Ambiguities Resolution Combining Precise Point Positioning (PPP) and SBAS Augmentation Methods	Noureddine Kheloufi, CTS
9	Geoprocessing services for EO time-series data access as basis for web and mobile applications	Jonas Eberle, Friedrich-Schiller-University Jena
10	LEOWorks 4 – Earth Observation image processing/Geographic Information System (GIS) Software for Educational Purposes	Adrian Stoica, Terrasigna
11	Academic perspectives on EO Science 2.0: experiences at the Remote Sensing Laboratories, University of Zurich	Hendrik Wulf, University of Zurich
12	Research and Service Support: new opportunities for EO scientists	Giancarlo Rivolta, Progressive Systems Srl

A.2 Open Innovation and Tools

13	STEP and the Sentinel-2 Toolbox	Nicolas Ducoin, Julien Malik CS-SI
14	OpenCitySmart - The Open Platform for Smart Cities	Suchith Anand, University of Nottingham
15	estate4real: EO application for the real estate market in cities	Constantinos Cartalis, University of Athens
16	Sustainable urban transport and ridership estimation of BRTS using GIS techniques	Prateek Joshi, HARYANA SPACE APPLICATION CENTRE
17	Integration of Earth Observation and in-situ data for map updating	Eetu Puttonen, Finnish Geospatial Research Institute
18	Exposure monitoring from optical earth observation data: an open-source and integrated set of tools	Daniele De Vecchi, University of Pavia / EUCENTRE Foundation

B.1 Citizen Science

18	Citizens as sensors: from a multi-purpose framework to app implementation	Daniele De Vecchi, University of Pavia / EUCENTRE Foundation
19	A crowdsourcing-based game for land cover validation	Maria Antonia Brovelli, Politecnico di Milano
20	Preserving cultural landscapes through citizen engagement: the role of Earth Observation in crowdsourcing-based applications for the archaeological research	Francesc C. Conesa, Pompeu Fabra University
21	BuioMetria Partecipativa: participatory night sky quality monitoring, the Italian way	Andrea Giacomelli, Attivarti.org
22	Small Sensor Developments for High-resolution Air Quality Mapping and S5P Satellite Validation	Bas Mijling, KNMI
23	Dark Sky Meter - IYL2015 App	Pedro Russo, University of Leiden
24	Investigating Data Sustainability of Citizen Science Projects	Sven Schade, Elena Roglia European Commission - JRC

25	Cost-efficient and reliable crowd sourcing platforms built on open standards – A citizen science architecture to support collaborative ground truthing and knowledge creation	Ingo Simonis, OGC
B.2 Earth Science Virtual Research Environment		
26	A method to map flooding-prone areas in Iran for artificial recharging using Landsat satellite images and GIS	Ali Bozorgi, Iran water Resources. Management Co
27	Multi-model ensemble hydrometeorological simulations of the 2011 and 2014 flash floods in Genoa, Italy: a comparison study in the framework of the DRIHM project	Parodi Antonio, CIMA Research
28	Scalable in-database regression analysis of large earth-observation datasets	Marius Appel, University of Muenster
29	E-Infrastructures empowered by Interoperable Volunteered Geographic Information	Gloria Bordogna, CNR
31	Scientific data analytics workflows at large scale with the Ophidia big data stack	Sandro Fiore, CMCC
C.1A/B Scientific Communication and Visualisation / Exploitation Platforms		
32	IPython meets geospatial data analysis	Julia Wagemann, ESA
33	Non-Invasive Monitoring System for Monumental Heritage : advanced dissemination and outreach solution	Maria Fabrizia Buongiorno, INGV
34	A new edutainment app using satellite images to teach physical geography.	Fabio Del Frate, GEO-K
35	Making a sensible use of technology: the new frontier of Earth Education	Tiziana Lanza, Istituto Nazionale di Geofisica e Vulcanologia
36	PERICLES: a knowledge management programme applied to SOLAR data from COLUMBUS, application to long term earth observation studies	Praveen Pandey, B.USOC
37	ESA Activities in Earth Observation Education	Francesco Sarti, ESA
38	Next generation Sentinel data hub	Grega Milcinski, Sinergise
39	Mission Exploitation Platform proba-v	Erwin Goor, VITO
Exhibitors [Big Hall]		
A	SOLENIX	
B	Array Systems Computing Inc	
C	CartoDB	
D	DRIHM	
E	AizoOn Consulting s.r.l.	
F	ReMedia Italia srl	
G	Amazon Web Services	
H	Terradue	
I	SenSyF	
J	EOX IT Services GmbH	
K	Advanced computer Systems Spa	