

# Conference Agenda

## Session Overview

Date: Monday, 17/June/2024

8:00am - 5:00pm	<b>Reg 1: Registration</b> Location: <a href="#">Business School of Manchester Metropolitan University</a>	
8:45am - 9:00am	<b>Opening ceremony</b> Location: <a href="#">BS G.36</a> Chair: <a href="#">Dr. Elias Symeonakis</a> Chair: <a href="#">Dr. Christina Karakizi</a> Opening ceremony 5-min talks from: - Representative from MMU - President of EARSeL, Dr Jean-Christophe Schyns - Local Organiser, Dr Elias Symeonakis	
9:00am - 9:30am	<b>Keynote C. Tucker</b> Location: <a href="#">BS G.36</a>	
9:30am - 11:00am	<p><b>UAS S1</b> Location: <a href="#">BS G.35</a></p> <p><b>Improving Accessibility Of Drone-based Environmental Monitoring Through A Direct Georeferencing-based Image Processing Service</b> <a href="#">Klaas Pauly</a>, Pieter-Jan Baeck, Liesbeth De Keukelaere, Dominique De Munck, Wouter Dierckx, Walter Horsten, Robrecht Moelans, Sam Oswald, Gert Strackx, Kris Vanhoof, Dries Raymaekers VITO, Belgium</p> <p><b>Near Real-Time Flood Detection And Mapping Using UAS</b> <a href="#">Pieter-Jan Baeck</a>, Lisa Landuyt, Kris Vanhoof, Walter Horsten, <a href="#">Klaas Pauly</a>, <a href="#">Nicolas Lewyckyj</a> VITO, Remote Sensing Department, Belgium</p> <p><b>AI-based Tree Species Classification and Segmentation from UAS Multispectral Data</b> <a href="#">Romy Schlögel</a><sup>1</sup>, <a href="#">Nicola Dimarco</a><sup>1</sup>, <a href="#">Louis Andreani</a><sup>1</sup>, <a href="#">Matthieu Duval</a><sup>2</sup>, <a href="#">Cadwal Borremans</a><sup>1,3</sup>, <a href="#">Benoît Bartiaux</a><sup>1</sup> 1: Spacebel sa., Earth Observation Applications, Belgium; 2: Multitel asbl, Department of AI, Belgium; 3: University of Liège, Department of Geography, Belgium</p> <p><b>Prediction of Turbidity and TDS in Dam Reservoir from Multispectral UAV-Drone and Sentinel-2 Image Sensors using Stacked Machine Learning Models</b> <a href="#">Yashon Ouma</a><sup>1</sup>, <a href="#">Phillimon Odirile</a><sup>1</sup>, <a href="#">Boipuso Nkwae</a><sup>1</sup>, <a href="#">Ditiro Moalafhi</a><sup>2</sup>, <a href="#">George Anderson</a><sup>1</sup>, <a href="#">Bhagabat Parida</a><sup>3</sup>, <a href="#">David Mandiyanike</a><sup>1</sup>, <a href="#">Jiaguo Qi</a><sup>4</sup> 1: University of Botswana, Botswana; 2: BUAN; 3: BIUST; 4: Michigan State University</p> <p><b>Integrating Field Surveys with UAV Imagery for Agricultural Plant Cover Monitoring</b> <a href="#">Carmen Orts</a><sup>1</sup>, <a href="#">Maria Desamparados Soriano</a><sup>2</sup>, <a href="#">Ramón Pons-Crespo</a><sup>3</sup>, <a href="#">Ángel Marqués-Mateu</a><sup>3</sup>, <a href="#">Gabriel Riutort-Mayol</a><sup>4</sup> 1: Instituto Valenciano de Investigaciones Agrarias (IVIA), Spain; 2: Universitat Politècnica de València, Department of Plant Production, Spain; 3: Universitat Politècnica de València, Department of Cartographic Engineering, Geodesy and Photogrammetry, Spain; 4: Fundación para el Fomento de la Investigación Sanitaria y Biomédica (FISABIO), Spain</p> <p><b>Glacier Change Monitoring from Multitemporal UAV data: the Case Study of Forni Glacier (Italy)</b> <a href="#">Davide Fugazza</a> Università degli studi di Milano, Italy</p>	<p><b>W1 Agriculture</b> Location: <a href="#">BS G.36</a> Chair: <a href="#">Prof. Enrico Borgogno-Mondino</a> Chair: <a href="#">Prof. Dr. Francesco Pirotti</a></p> <p><b>Satellite Based Estimation Of Grassland Yield And Quality Dynamics</b> <a href="#">Andreas Schaumberger</a><sup>1</sup>, <a href="#">Andreas Klingler</a><sup>1</sup>, <a href="#">Aleksandar Dujakovic</a><sup>2</sup>, <a href="#">Konrad Mayer</a><sup>3</sup>, <a href="#">Felix Reuß</a><sup>4</sup>, <a href="#">Clement Atzberger</a><sup>2</sup>, <a href="#">Francesco Vuolo</a><sup>2</sup> 1: Agricultural Research and Education Center (AREC) Raumberg-Gumpenstein, Austria; 2: University of Natural Resources and Life Sciences, Institute of Geomatics, Austria; 3: GeoSphere Austria; 4: Vienna University of Technology, Department of Geodesy and Geoinformation, Austria</p> <p><b>Subnational Statistics from Field-Level Yield Estimation and Forecast: Evaluation of Models Ingesting Sentinel-2 data</b> <a href="#">Pierre Houdmont</a><sup>1</sup>, <a href="#">Martin Claverie</a><sup>2</sup>, <a href="#">Pierre Defourny</a><sup>1</sup> 1: UCLouvain, Earth and Life Institute, Belgium; 2: EU Commission, Joint Research Center (JRC-ISPRA), Italy</p> <p><b>Annual Grassland Yield Estimation Based On Sentinel-2 Time Series</b> <a href="#">Sophie Reinermann</a><sup>1,2</sup>, <a href="#">Anne Schucknecht</a><sup>3</sup>, <a href="#">Ursula Gessner</a><sup>2</sup>, <a href="#">Sarah Asam</a><sup>2</sup>, <a href="#">Ralf Kiese</a><sup>4</sup>, <a href="#">Claudia Kuenzer</a><sup>1,2</sup> 1: Department of Remote Sensing, Institute of Geography and Geology, University of Wuerzburg, Germany; 2: German Remote Sensing Data Center (DFD), Earth Observation Center (EOC), German Aerospace Center (DLR), Germany; 3: OHB System AG, Image Simulation and Processing Team, Germany; 4: Karlsruhe Institute of Technology, Institute of Meteorology and Climate Research – Atmospheric Environmental Research, Germany</p> <p><b>Towards the Early Detection of Autumn Wheat in PRISMA Images</b> <a href="#">Mihai Ivanovic</a><sup>1</sup>, <a href="#">Serban Oprisescu</a><sup>1</sup>, <a href="#">Corneliu Florea</a><sup>1,2</sup> 1: Transilvania University of Brasov, Romania; 2: National University of Science and Technology Politehnica of Bucharest, Romania</p> <p><b>Grassland History From Remote Sensing Time Series: Improving The Data Basis For Greenhouse Gas Reporting</b> <a href="#">Lukas Blickensdörfer</a><sup>1,2</sup>, <a href="#">Tom Brög</a><sup>1</sup>, <a href="#">Felix Lobert</a><sup>1,2</sup>, <a href="#">Patrick Hostert</a><sup>2,3</sup>, <a href="#">Stefan Erasmi</a><sup>1</sup> 1: Thünen Institute of Farm Economics, Thünen Earth Observation (THEO), Germany; 2: Humboldt-Universität zu Berlin, Earth Observation Lab, Geography Department, Germany; 3: Humboldt-Universität zu Berlin, Integrative Research Institute of Transformations of Human-Environment Systems (IRI THESys), Germany</p> <p><b>A Systematic Study On The Influence Of Remote Sensing Data Resolution Designed To Improve The</b></p>

		<p><b>Efficiency Of Soil Organic Carbon Monitoring Activities</b>  <b>Savannah McGuirk<sup>1,2</sup>, S. Mohammad Mirmazloumi<sup>3</sup></b>  1: Carbon Monitoring Services, Canberra, Australia; 2: CUAVA, the ARC Training Centre for CubeSats, UAVs and their Applications, University of Sydney, Australia; 3: Leibniz-Centre for Agricultural Landscape Research (ZALF), Germany</p>
<p>11:00am - 11:30am</p>	<p><b>Coffee break Mon1</b>  Location: <a href="#">Business School of Manchester Metropolitan University</a></p>	<p><b>Monday Poster Session</b>  Location: <a href="#">Business School North Atrium Foyer</a></p> <hr/> <p><b>Exploring the Time-lag Effect of Meteorological and Vegetation Features on European Summer Wildfires with Explainable Artificial Intelligence (XAI)</b>  <b>Hanyu Li<sup>1</sup>, Stenka Vulova<sup>1,2</sup>, Alby Duarte Rocha<sup>1</sup>, Birgit Kleinschmit<sup>1</sup></b>  1: Technical University of Berlin, Germany; 2: University of Kassel, Germany</p> <hr/> <p><b>The Importance of Feature Engineering for the Explainability of (German) Digital Soil Mapping Products – a SOC Content Modelling Example in Bavaria</b>  <b>Markus Möller<sup>1</sup>, Simone Zepp<sup>2</sup>, Martin Wiesmeier<sup>3</sup>, Younes Garosi<sup>1</sup>, Uta Heiden<sup>4</sup></b>  1: Julius Kühn Institute (JKI), Germany; 2: German Aerospace Center (DLR), German Remote Sensing Data Center (DFD); 3: Bavarian State Research Center for Agriculture, Institute for Organic Farming, Soil and Resource Management; 4: German Aerospace Center (DLR), Remote Sensing Technology Institute (IMF)</p> <hr/> <p><b>Accuracy Assessment of Remote Sensing UAV's Spatial Positioning when Processing Predefined Flight Patterns and during Automatic Landing Process</b>  <b>Timo P. Lehmann, Simon Drollinger, Daniela Sauer, Jonas Fierke, Birgitta M. Putzenlechner, Daniel Wyss, Martin Kappas</b>  Georg-August-University of Goettingen, Institute of Geography, Germany</p> <hr/> <p><b>Integrating IEEE P4001 Standards For Hyperspectral Imager Calibration Into UAS Sensor Calibration Workflows – The Case Of NERC FSF's UAS Sensor Suite</b>  <b>Robbie Ramsay</b>  NERC Field Spectroscopy Facility, United Kingdom</p> <hr/> <p><b>Plant Species Richness Across Grasslands in Germany</b>  <b>Javier Muro</b>  Thuenen Institute, Germany</p> <hr/> <p><b>Mowing Detection Based On Sentinel-2 Time Series: From Wallonia to Europe</b>  <b>François Godechal<sup>1</sup>, Emilie Beriaux<sup>1</sup>, Alban Jago<sup>1</sup>, Marcel Schwieder<sup>2</sup>, Felix Lobert<sup>2</sup>, Adrien Cassiers<sup>1</sup>, Viviane Planchon<sup>1</sup>, Yannick Curnel<sup>1</sup></b>  1: Walloon Agricultural Research Centre, Belgium; 2: Thünen Institute of Farm Economics, Germany</p> <hr/> <p><b>Multi-frequency SAR Time Series for the Detection of Tillage Practices and Seedbed Preparation</b>  <b>Basile Boland, Tom Kenda, Jean Bouchat, Pierre Defourny</b>  Université catholique de Louvain, Earth and Life Institute, Belgium</p> <hr/> <p><b>FAIR Research Data: Analysis-Ready Sentinel-1 and Sentinel-2 Data as a Standardized Web Service</b>  <b>Florian Beyer<sup>1</sup>, Jennifer McClelland<sup>2</sup>, Tanja Riedel<sup>2</sup>, Marvin Dierks<sup>1</sup>, Heike Gerighausen<sup>1</sup>, Markus Moeller<sup>1</sup></b></p>

1: Julius Kuehn Institute, Institute for Crop and Soil Science, Germany; 2: Julius Kuehn Institute, Institute for Strategies and Technology Assessment, Germany

### **Climate Scenarios And Earth Observation For Agriculture: Insights From the Agritech Project**

**Francesco Pirotti<sup>1,2</sup>, Marco Piragnolo<sup>1,2</sup>, Francesco Morari<sup>3</sup>, Samuele Trestini<sup>1</sup>**

1: University of Padua, Department of Land and Agroforestry Systems (TESAF), Italy; 2: University of Padua, Interdepartmental Research Centre in Geomatics (CIRGEO), Italy; 3: University of Padua, Department of Agronomy, Food, Natural Resources, Animals and the Environment (DAFNAE), Italy

### **Within-field Crop Growth Heterogeneity from Multi-year Leaf Area Index Time Series Analysis**

**Tom Kenda, Céline Champagne, Xavier Draye, Pierre Defourny**

Université catholique de Louvain, Earth and Life Institute, Belgium

### **Time-Series Of Remotely Sensed Data To Estimate Wheat Grain Yield At Field Level**

**Francesco Nutini<sup>1</sup>, Mattia Scarpantoni<sup>1</sup>, Federico Filippini<sup>2</sup>, Mirco Boschetti<sup>1</sup>**

1: Institute for Electromagnetic Sensing of the Environment, National Research Council of Italy, Milano, Italy; 2: Institute of Environmental Geology and Geoengineering, National Research Council of Italy, Roma, Italy

### **Exploring The Relationships Between Ground Observations And Remotely Sensed Hazelnut Spring Phenology**

**Sofia Bajocco<sup>1</sup>, Mara Di Giulio<sup>1</sup>, Abdoul Hamid Mohamed Sallah<sup>2</sup>, Simone Bregaglio<sup>1</sup>**

1: CREA - Council for Agricultural Research and Economics, Research Center for Agriculture and environment, Italy; 2: Ferrero Hazelnut Company, Ferrero Trading Lux, Senningerberg, Luxembourg

### **Is the MOD16A2 Product Reliable enough for Mapping Potential Evapotranspiration for Agriculture-related Applications? Preliminary Results in Piemonte (NW Italy).**

**Alessandro Farbo, Filippo Sarvia, Samuele De Petris, Federica Ghilardi, Enrico Borgogno-Mondino**

DISAFA – Department of agriculture, forest and food sciences, University of Turin, Italy

### **Analysing Sentinel-1 Temporal Profiles for Discriminating Winter Catch Crops Along with Main Crops in Germany**

**Shanmugapriya Selvaraj<sup>1</sup>, Phillip Lemke<sup>1</sup>, Damian Bargiel<sup>2</sup>, Heike Gerighausen<sup>1</sup>**

1: Julius Kuehn Institute, Institute for Crop and Soil Science, Germany; 2: Hochschule Geisenheim University, Department of Landscape Planning and Nature Conservation, Germany

### **Application of YOLOv8n for Agricultural Parcel Delineation from Historical Aerial Photographs in the Ecuadorian Andes**

**Fabián Santos, Fernanda Suárez, Santiago Bonilla**

Universidad Indoamerica, Ecuador

### **On the Use of NDVI to Estimate LAI in Field Crops: presenting the LAI<sub>r</sub> package**

**Sofia Bajocco<sup>1</sup>, Carlotta Ferrara<sup>2</sup>, Lorenzo Crecco<sup>1</sup>, Nicola Puletti<sup>2</sup>, Simone Bregaglio<sup>1</sup>, Francesco Chianucci<sup>2</sup>**

1: CREA - Council for Agricultural Research and Economics, Research Center for Agriculture and Environment, Italy; 2: CREA - Council for Agricultural Research and Economics, Research Center for Forestry and Wood, Italy

		<p><b>Exploring Snow Cover Trends In Western Alps (NW Italy) By Remote Sensing And Their Possible Effects On Agriculture</b>  <b>Francesco Parizia<sup>1,2</sup>, Luigi Perotti<sup>1</sup>, Samuele De Petris<sup>1</sup>, Enrico Borgogno Mondino<sup>1</sup></b>  1: Università degli Studi di Torino, Italy; 2: Università degli Studi di Roma "La Sapienza", Italy</p> <hr/> <p><b>The Use Of Unmanned Aerial Vehicle (UAV) Remotely Sensed Data And Biophysical Variables To Predict Maize Above-Ground Biomass In Small-Scale Farming Systems.</b>  <b>Celuxolo Dlamini, Trylee Nyasha Matongera, John Odindi, Onesimo Mutanga</b>  University of KwaZulu-Natal, South Africa</p> <hr/> <p><b>Unsupervised Winter Crop Mapping with Sentinel-1 and -2 temporal analysis</b>  <b>Hsuan-Yi Li<sup>1</sup>, James A Lawrence<sup>1</sup>, Philippa J Mason<sup>2</sup>, Richard C Ghail<sup>3</sup></b>  1: Department of Civil and Environmental Engineering, Skempton Building, Imperial College London, South Kensington, London SW7 2AZ, UK; 2: Department of Earth Science &amp; Engineering, Imperial College London, Prince Consort Road, London SW7 2AZ, UK; 3: Department of Earth Sciences, Queens Building 245, Royal Holloway, University of London Egham, Surrey TW20 0EX, UK</p> <hr/> <p><b>Interannual Transfer of Species-specific Weed Instance Segmentation in Beet Crops Using UAV Imagery</b>  <b>Maren Pukrop, Thomas Jarmer</b>  University of Osnabrueck, Germany</p>
<p>11:30am - 1:00pm</p>	<p><b>UAS S2</b>  Location: <b>BS G.35</b></p> <p><b>Surface Reflectance Intercomparison Exercise For Vegetation (SRIX4Veg) Overview And Results</b>  <b>Niall Origo<sup>1</sup>, Harry Morris<sup>1,3</sup>, Chloe Randall<sup>1</sup>, Morven Sinclair<sup>1</sup>, Rasma Ormane<sup>1</sup>, Matthew Scholes<sup>1</sup>, Bernardo Mota<sup>1</sup>, Fernando Camacho<sup>2</sup>, Jorge Sanchez-Zapero<sup>2</sup>, Enrique Martínez-Sánchez<sup>2</sup>, Jadu Dash<sup>3</sup>, Luke A Brown<sup>3,4</sup>, Valentina Boccia<sup>5</sup></b>  1: National Physical Laboratory, United Kingdom; 2: Earth Observation Laboratory (EOLab); 3: School of Geography and Environmental Science, University of Southampton; 4: School of Science, Engineering and Environment, University of Salford; 5: European Space Research Institute, European Space Agency</p> <hr/> <p><b>Predicting of Canopy Nitrogen Content based on UAVs and Satellites Data Fusion in Citrus Orchards</b>  <b>Tarin Paz Kagan<sup>1</sup>, Avioz Dagan<sup>2</sup>, Eran Raveh<sup>3</sup>, Sahar Baram<sup>4</sup>, Raphael Linker<sup>2</sup></b>  1: Ben-Gurion University of the Negev, Israel, Israel; 2: Technion – Israel Institute of Technology, Haifa Israel; 3: Institute of Plant Sciences, Agriculture Research Organization, Gilat Research Center,; 4: Institute of Soil, Water and Environmental Sciences, Agricultural Research Organization, Volcani Center</p> <hr/> <p><b>Towards Drone-Based Aquatic Reflectance Fiducial Reference Measurements To Validate Aquatic Reflectance Satellite Products</b>  <b>Liesbeth De Keukelaere<sup>1</sup>, Sindy Sterckx<sup>1</sup>, Klaas Pauly<sup>1</sup>, Ils Reusen<sup>1</sup>, Agnieszka Bialek<sup>2</sup>, Niall Origo<sup>2</sup></b>  1: VITO, Belgium; 2: National Physical Laboratory, United Kingdom</p> <hr/> <p><b>A Methodological Workflow for Ultra-high Resolution Dsm Generation with LiDAR Data in Wetlands</b></p>	<p><b>W2 Agriculture</b>  Location: <b>BS G.36</b>  Chair: <b>Prof. Enrico Borgogno-Mondino</b>  Chair: <b>Prof. Dr. Francesco Pirotti</b></p> <p><b>Crop Phenology Assessment with Multiscale and Multisource Time Series</b>  <b>Magdalena Main-Knorn<sup>1</sup>, Claas Nendel<sup>1,2,3</sup>, Laura Flores<sup>1,4</sup>, Gohar Ghazaryan<sup>1,5</sup></b>  1: Leibniz Centre for Agricultural Landscape Research (ZALF), Germany; 2: Institute of Biochemistry and Biology, University of Potsdam, Potsdam, Germany; 3: Integrative Research Institute on Transformations of Human-Environment Systems (IRI THESys), Humboldt-Universität zu Berlin, Berlin, Germany; 4: Institute of Earth and Environmental Science, University Potsdam, Potsdam, Germany; 5: Earth Observation Lab, Geography Department, Humboldt-Universität zu Berlin, Berlin, Germany</p> <hr/> <p><b>How Does Phenology Shape Crop- And Orbit-Specific InSAR Coherence And PolSAR-Signatures Of Sentinel-1</b>  <b>Johannes Markus Löw<sup>1</sup>, Steven Hill<sup>2</sup>, Michael Thiel<sup>2</sup>, Tobias Ullmann<sup>2</sup>, Christopher Conrad<sup>1</sup></b>  1: Martin-Luther-University Halle-Wittenberg, Germany; 2: Earth Observation Research Cluster, Department of Remote Sensing, Institute of Geography and Geology, University of Würzburg, Germany</p> <hr/> <p><b>An Optimization Approach for Deriving Phenological Information of Different Crop Types in Germany Using Sentinel-2 Time Series</b>  <b>Abdelaziz Htitiou, Florian Beyer, Markus Möller, Heike Gerighausen</b>  Julius Kühn-Institut, Institut für Pflanzenbau und Bodenkunde, Braunschweig, Germany</p> <hr/> <p><b>"Sensitivity Of C-band Backscatter To Field Management Practices"</b>  <b>Felix Reuß, Mariette Vreugdenhil, Emanuel Bueechi, Bernhard Raml, Wolfgang Wagner</b>  Vienna University of Technology, Austria</p>

	<p><b>Erika Piaser<sup>1,2</sup>, Andrea Berton<sup>3</sup>, Giovanna Sona<sup>2,4</sup>, Paolo Villa<sup>1</sup></b>  1: Institute for Electromagnetic Sensing of the Environment, National Research Council of Italy; 2: Department of Civil and Environmental Engineering, Politecnico di Milano, Italy; 3: Institute of Geosciences and Earth Resources, National Research Council of Italy; 4: National Biodiversity Future Centre (NBFC), Italy</p>	<p><b>Integration of Remote Sensing, Ground Data and Meteo-climatic Variables for Agricultural Drought Monitoring: First Results of a Data-driven Approach</b>  <b>Filippo Bocchino<sup>1,3</sup>, Riccardo Contu<sup>1</sup>, Lorenza Ranaldi<sup>1</sup>, Antonio Denaro<sup>3</sup>, Laura Rosatelli<sup>3</sup>, Camillo Zaccarini<sup>3</sup>, Deodato Tapete<sup>4</sup>, Alessandro Ursi<sup>4</sup>, Maria Virelli<sup>4</sup>, Patrizia Sacco<sup>4</sup>, Valeria Belloni<sup>1</sup>, Roberta Ravanelli<sup>1</sup>, Mattia Crespi<sup>1,2</sup></b>  1: Geodesy and Geomatics Division - DICEA, Sapienza University of Rome, Italy; 2: Sapienza School for Advanced Studies, Sapienza University of Rome, Italy; 3: Institute of Services for the Agricultural and Food Market (ISMEA) - Agricultural Risk Management Department; 4: Italian Space Agency (ASI), Italy</p>
	<p><b>Monitoring Vegetation Phenology Using Time-series of High-resolution UAV Images</b>  <b>Lammert Kooistra<sup>1</sup>, Jasper Kleinsmann<sup>2</sup>, Simon Bosselaar<sup>1</sup></b>  1: Wageningen University, Netherlands, The; 2: World Agroforestry, Kenya</p>	<p><b>Classification Of Organic And Conventional Farming Practices And Crop Types Using A Multitask Deep Learning Model</b>  <b>Jan Hemmerling<sup>1</sup>, David Mickisch<sup>2</sup>, Theresa Follath<sup>2</sup>, Begüm Demir<sup>2</sup>, Stefan Erasmi<sup>1</sup></b>  1: Thünen Institute of Farm Economics; 2: Technische Universität Berlin</p>
	<p><b>Weakly Supervised Image Semantic Segmentation of UAV Multispectral Orthophotos to Reduce Image Labelling Effort for the Mapping of Woody Invasive Alien Plants</b>  <b>Diogo André Duarte<sup>1</sup>, Gil Gonçalves<sup>1,2</sup>, Cidália Fonte<sup>1,2</sup></b>  1: INESC Coimbra - Instituto de Engenharia de Sistemas e Computadores de Coimbra, Portugal; 2: University of Coimbra, Department of Mathematics, Coimbra, Portugal</p>	
<p>1:00pm - 2:30pm</p>	<p><b>Lunch Monday</b>  Location: <a href="#">Business School of Manchester Metropolitan University</a></p>	
<p>2:30pm - 3:00pm</p>	<p><b>Keynote P. Hostert</b>  Location: <a href="#">BS G.36</a></p>	
<p>3:00pm - 4:00pm</p>	<p><b>Semantic S1</b>  Location: <a href="#">BS G.35</a></p> <p><b>Plato: Implementing a Semantic Data Cube System</b>  <b>Dimitris Bilidas, Anastasios Mantas, Filippos Yfantis, George Stamoulis, Manolis Koubarakis</b>  National and Kapodistrian University of Athens, Greece</p> <p><b>Prediction And Transferability Of Median Grain Size On Tidal Flats Using A Deep Learning Model With Sentinel-2 Images</b>  <b>Logambal Madhuanand<sup>1</sup>, Catharina J. M. Philippart<sup>1,2</sup>, Wiebe Nijland<sup>1</sup>, Steven M. de Jong<sup>1</sup>, Allert I. Bijleveld<sup>2</sup>, Elisabeth A. Addink<sup>1</sup></b>  1: Utrecht University, Department of Physical Geography, The Netherlands; 2: NIOZ Royal Netherlands Institute for Sea Research, Department of Coastal Systems, The Netherlands</p> <p><b>One-layer RGB Representation Of Big EO Data Analyses For Supporting The Visual Communication Of Multi-temporal Change Detection</b>  <b>Dirk Tiede<sup>1</sup>, Hannah Augustin<sup>1</sup>, Thomas Strasser<sup>1</sup>, Steffen Reichel<sup>2</sup>, Markus Kerschbaumer<sup>2</sup>, Kristýna Měchurová<sup>2</sup>, Martin Sudmanns<sup>1</sup></b>  1: University of Salzburg, Department of Geoinformatics - Z_GIS, Austria; 2: Spatial Services GmbH, Austria</p> <p><b>Multi-scale Hierarchical Graph Convolutional Network for Semantic Segmentation of Remote Sensing Imagery</b>  <b>Zhiqiang Liu, Ping Tang, Zheng Zhang, Zhitao Zhao</b>  Aerospace Information Research Institute, CAS, China, People's Republic of</p>	<p><b>W3 Agriculture</b>  Location: <a href="#">BS G.36</a>  Chair: <a href="#">Prof. Enrico Borgogno-Mondino</a>  Chair: <a href="#">Prof. Dr. Francesco Pirotti</a></p> <p><b>Graph Neural Networks for Crop Cover Mapping</b>  <b>Elif Donmez<sup>1</sup>, Johannes Leonhardt<sup>3</sup>, Ribana Roscher<sup>2,3</sup>, Thomas Heckelei<sup>1</sup>, Hugo Storm<sup>1</sup></b>  1: Institute for Food and Resource Economics, University of Bonn, Bonn, Germany; 2: Institute of Bio-and Geosciences, Forschungszentrum Jülich GmbH, Jülich, Germany; 3: Institute of Geodesy and Geoinformation, University of Bonn, Bonn, Germany</p> <p><b>Using Orthophotos And Deep Learning For Mapping Hedgerows In Bavaria, Germany</b>  <b>Verena Huber Garcia<sup>1</sup>, Jennifer Kriese<sup>1</sup>, Sarah Asam<sup>1</sup>, Mariel Dirscherl<sup>1</sup>, Kristel Kerler<sup>2</sup>, Johanna Buchner<sup>2</sup>, Michael Stellmach<sup>2</sup>, Ursula Gessner<sup>1</sup></b>  1: German Aerospace Center (DLR), Germany; 2: Bayerisches Landesamt für Umwelt (LfU), Germany</p> <p><b>National Scale Hedgerow Monitoring with Planet Scope</b>  <b>Javier Muro, Lukas Blickensdörfer, Anna Köber, Gideon Tetteh, Marcel Schwieder, Stefan Erasmi</b>  Thuenen Institute, Germany</p> <p><b>National Scale Drought Impact and Risk assessment with the use of Sentinel-2 and Sentinel-3 time series</b>  <b>Gohar Ghazaryan<sup>1,6</sup>, Maximilian Schwarz<sup>2</sup>, Seyedmohammad Mirmazloumi<sup>1</sup>, Harison Kipkulei<sup>1</sup>, Tobias Landmann<sup>3</sup>, Henry Kyalo<sup>3</sup>, Rose Waswa<sup>4</sup>, Tom Dienya<sup>5</sup></b>  1: Leibniz Centre for Agricultural Landscape Research, Germany; 2: Remote Sensing Solutions GmbH, Germany; 3: International Centre of Insect Physiology and Ecology, Kenya; 4: Regional Centre for Mapping of Resources for Development, Kenya; 5: Ministry of Agriculture and Livestock Development, Kenya; 6: Geography Department, Humboldt-Universität zu Berlin, Germany</p>
<p>4:00pm - 4:30pm</p>	<p><b>Coffee break Mon2</b>  Location: <a href="#">Business School of Manchester Metropolitan University</a></p>	<p><b>Monday Poster Session (cont)</b>  Location: <a href="#">Business School North Atrium Foyer</a></p>

<p>4:30pm - 6:00pm</p>	<p><b>Semantic S2</b> Location: <a href="#">BS G.35</a></p> <p><b>An Approach for the Semantic Enrichment of Sentinel-1 Imagery Suitable for Large-scale Analysis</b> <u>Luke McQuade</u>, Martin Sudmanns, Dirk Tiede University of Salzburg, Department of Geoinformatics - Z_GIS, Austria</p> <hr/> <p><b>Semantic World – A Novel Benchmark Dataset For Semi-Supervised Semantic Segmentation</b> <u>Felix Kröber</u><sup>1</sup>, Dirk Tiede<sup>1</sup>, Andrea Baraldi<sup>2</sup>, Sébastien Lefèvre<sup>3</sup> 1: University of Salzburg, Department of Geoinformatics – Z_GIS, Austria; 2: Spatial Services GmbH, Austria; 3: Université Bretagne Sud, IRISA UMR 6074, France</p> <hr/> <p><b>Fine-Tuning SAM for Accurate Impervious Surface Segmentation in Very High-Resolution Orthophotos</b> <u>Jan-Philipp Langenkamp</u><sup>1</sup>, Thomas Chrisitan van Dijk<sup>2</sup>, Andreas Rienow<sup>1</sup> 1: Ruhr-University Bochum, Institute of Geography, Interdisciplinary Geoinformation Science, Germany; 2: Ruhr-University Bochum, Faculty of Civil and Environmental Engineering, Institute for Infrastructure and Environment, Environmental Informatics, Germany</p> <hr/> <p><b>Hybrid Temporal Attention for Crop Type Mapping from Satellite Image Time Series</b> Weixiong Zhang, <u>Ping Tang</u>, Zheng Zhang Aerospace Information Research Institute, CAS, China, People's Republic of</p> <hr/> <p><b>Building Energy Forecasts Using Earth Observation Open Data</b> <u>Stylianos Kokkas</u>, Paschalis Bizopoulos, Antonios Lalas, Konstantinos Votis Centre for Research and Technology Hellas, Greece</p>	<p><b>W4 Agriculture</b> Location: <a href="#">BS G.36</a> Chair: <b>Prof. Enrico Borgogno-Mondino</b> Chair: <b>Prof. Dr. Francesco Pirotti</b></p> <p><b>Understanding Inter-Model Variability In Satellite-based Estimates Of Irrigation Water Use</b> <u>Amali A. Amali</u><sup>1</sup>, Timothy Foster<sup>2</sup>, Angela Harris<sup>1</sup> 1: Department of Geography, School of Environment, Education and Development, The University of Manchester, Manchester, UK; 2: School of Engineering, The University of Manchester, Manchester, UK</p> <hr/> <p><b>High Resolution Crop Condition and Drought Impact Mapping Using Sentinel-2 Imagery and Machine Learning</b> <u>Seyedmohammad Mirmazloumi</u><sup>1</sup>, Harison Kipkulei<sup>1</sup>, Gohar Ghazaryan<sup>1,2</sup> 1: Leibniz Centre for Agricultural Landscape Research (ZALF), Germany; 2: Geography Department, Humboldt-Universität zu Berlin, Germany</p> <hr/> <p><b>Leveraging Embedded Cameras to Build a Time Machine for Field Observations</b> <u>Alban Jago</u>, François Godechal, Emilie Beriaux, Adrien Cassiers, Viviane Planchon Walloon Agricultural Research Centre, Belgium</p> <hr/> <p><b>Potential of Hyperspectral EnMAP Data to Improve Crop-Type Classification of Sub-Acre Smallholder Fields in Kenya</b> <u>Leander Leist</u><sup>1</sup>, Sebastian Egli<sup>2</sup>, Johannes Dröner<sup>3</sup>, Jörg Bendix<sup>1</sup> 1: University of Marburg, Germany; 2: AgriBORA GmbH; 3: Geo Engine GmbH</p> <hr/> <p><b>Temporally Transferable Crop Mapping With Temporal Encoding And Deep Learning Augmentations</b> <u>Vu Dong Pham</u><sup>1,2</sup>, Gideon Tetteh<sup>3</sup>, Fabian Thiel<sup>1</sup>, Stefan Erasmi<sup>3</sup>, Marcel Schwieder<sup>3,4</sup>, David Frantz<sup>5</sup>, Sebastian van der Linden<sup>1,2</sup> 1: Institute of Geography and Geology, University of Greifswald, Friedrich-Ludwig-Jahn-Str. 16, 17489 Greifswald, Germany; 2: Interdisciplinary Centre for Baltic Sea Region Research (IFZO), University of Greifswald, 17489 Greifswald; 3: Thünen Institute of Farm Economics, Bundesallee 63, 38116 Braunschweig, Germany; 4: Geography Department, Humboldt-Universität zu Berlin, Unter den Linden 6, 10099 Berlin, Germany; 5: Geoinformatics – Spatial Data Science, Trier University, Behringstraße 21, Trier 54296, Germany.</p> <hr/> <p><b>The GROUNDED EO Project: Developing Improved Decametric Vegetation Products by Combining Earth Observation, Machine Learning, and Routine Ground Reference Measurements</b> <u>Luke Brown</u><sup>1</sup>, Philippe Goryl<sup>2</sup>, Stephen Plummer<sup>2</sup> 1: University of Salford, Manchester, United Kingdom; 2: European Space Agency, Frascati, Italy</p>
<p>6:00pm - 9:00pm</p>	<p><b>IB: Icebreaker</b> Location: <a href="#">Business School North Atrium Foyer</a></p>	<p><b>Monday Poster Session (cont.)</b> Location: <a href="#">Business School North Atrium Foyer</a></p>

<p>8:00am - 5:00pm</p>	<p><b>Reg 2: Registration</b> Location: <a href="#">Business School of Manchester Metropolitan University</a></p>	
<p>9:00am - 9:30am</p>	<p><b>Keynote R. Lucas</b> Location: <a href="#">BS G.36</a></p> <p><b>Towards Global Recovery of Ecosystems and Environments</b> <b>Richard Maxwell Lucas</b> Aberystwyth University, United Kingdom</p>	
<p>9:30am - 11:00am</p>	<p><b>Thermal</b> Location: <a href="#">BS G.35</a></p> <p><b>Understanding The Thermal Environment Of Uk Cities With Satellite Remote Sensing</b> <b>Charlotte Paton<sup>1,2</sup>, Darren Ghent<sup>1,2</sup>, Mike Perry<sup>1,2</sup>, John Remedios<sup>1,2</sup></b> 1: University of Leicester, Earth Observation Science, School of Physics and Astronomy, UK; 2: National Centre for Earth Observation, Space Park Leicester, University of Leicester, UK</p> <hr/> <p><b>A City-scale 3D Thermographic Model for Inspection of Building Energy Efficiency</b> <b>Shaojuan Xu, Bastian Heider</b> Research Institute for Regional and Urban Development, Germany</p> <hr/> <p><b>Aerosol Correction for SWIR Methane Retrieval</b> <b>Michael Pieper, Ronald Lockwood, Michael Chrisp</b> Massachusetts Institute of Technology Lincoln Laboratory, United States of America</p> <hr/> <p><b>Monitoring Land Surface Temperature from Space - New Perspectives for Environmental Monitoring</b> <b>Daniel Spengler<sup>1</sup>, Elsy Ibrahim<sup>2</sup>, Tianran Zhang<sup>1</sup>, Matthieu Taymans<sup>2</sup></b> 1: constellr GmbH, Germany; 2: constellr S.e., Belgium</p> <hr/> <p><b>Multi-angular Airborne Observations For Evaluation Of Thermal Directionality At The Satellite Scale</b> <b>Mary Francesca Langsdale<sup>1,2</sup>, Martin Wooster<sup>1,2</sup>, Dirk Schuettemeyer<sup>3</sup>, Simon Hook<sup>4</sup>, Callum Middleton<sup>1,2</sup>, Mark Grosvenor<sup>1,2</sup>, Bjorn Eng<sup>4</sup>, Roberto Colombo<sup>5</sup>, Franco Miglietta<sup>6</sup>, Lorenzo Genesis<sup>6</sup>, Jose Sobrino<sup>7</sup>, Micol Rossini<sup>5</sup>, Gerardo Rivera<sup>4</sup>, Daniel Beeden<sup>8</sup>, William Jay<sup>9</sup></b> 1: National Centre for Earth Observation, United Kingdom; 2: Department of Geography, King's College London, UK; 3: European Space Agency, Netherlands; 4: NASA Jet Propulsion Laboratory, USA; 5: University of Milano Bicocca, Italy; 6: Institute of Bioeconomy, CNR, Italy; 7: University of Valencia, Spain; 8: British Antarctic Survey, UK; 9: NEODAAS Plymouth Marine Laboratory, UK</p>	<p><b>W1 LULC</b> Location: <a href="#">BS G.36</a> Chair: <b>Dr. Gregory Giuliani</b> Chair: <b>Dr. Birgitta Putzenlechner</b></p> <p><b>Comparative Validation of Recent High-Resolution Global Land Cover Maps</b> <b>Panpan Xu<sup>1</sup>, Nandin-Erdene Tsendbazar<sup>1</sup>, Martin Herold<sup>1,2</sup>, Sytze de Bruin<sup>1</sup>, Myke Koopmans<sup>1</sup>, Tanya Birch<sup>3</sup>, Sarah Carter<sup>4</sup>, Steffen Fritz<sup>5</sup>, Myroslava Lesiv<sup>5</sup>, Elise Mazur<sup>4</sup>, Amy Pickens<sup>6</sup>, Peter Potapov<sup>6</sup>, Fred Stolle<sup>4</sup>, Alexandra Tyukavina<sup>6</sup>, Ruben Van de Kerchove<sup>7</sup>, Daniele Zanaga<sup>7</sup></b> 1: Wageningen University, The Netherlands; 2: GFZ German Research Centre of Geosciences, Germany; 3: Google, USA; 4: World Resources Institute, USA; 5: International Institute for Applied Systems Analysis (IIASA), Austria; 6: University of Maryland, USA; 7: Flemish Institute for Technological Research (VITO), Belgium</p> <hr/> <p><b>Mapping Ecosystem Conditions Using Multi-source EO Data Cubes</b> <b>Chaonan Ji<sup>1</sup>, Hannes Feilhauer<sup>1,2,3</sup>, Stefanie Holzwarth<sup>4</sup>, Eya Cherif<sup>1,3</sup>, David Montero<sup>1,2</sup>, Maximilian Söchting<sup>1</sup>, Miguel D. Mahecha<sup>1,2,3</sup></b> 1: Leipzig University, Remote Sensing Centre for Earth System Research, Germany; 2: German Centre for Integrative Biodiversity Research (iDiv), Halle-Jena-Leipzig, Germany; 3: Center for Scalable Data Analytics and Artificial Intelligence (ScaDS.AI), Dresden-Leipzig, Germany; 4: German Aerospace Center, Remote Sensing Data Center, Germany</p> <hr/> <p><b>The TIMELINE Project: Four Decades of Geophysical Data to Observe the Impacts of Climate Change in Europe</b> <b>Stefanie Holzwarth<sup>1</sup>, Sarah Asam<sup>1</sup>, Martin Bachmann<sup>1</sup>, Martin Böttcher<sup>2</sup>, Andreas Dietz<sup>1</sup>, Christina Eisfelder<sup>1</sup>, Andreas Hirner<sup>1</sup>, Matthias Hofmann<sup>1</sup>, Grit Kirches<sup>2</sup>, Detmar Krause<sup>1</sup>, Julian Meyer-Arneke<sup>1</sup>, Simon Plank<sup>1</sup>, Thomas Popp<sup>1</sup>, Philipp Reiners<sup>1</sup>, Sebastian Rößler<sup>1</sup>, Thomas Ruppert<sup>1</sup>, Alexander Scherbachenko<sup>1</sup>, Meinhard Wolfmüller<sup>1</sup></b> 1: German Aerospace Center (DLR), German Remote Sensing Data Center (DFD), Germany; 2: Brockmann Consult GmbH, Germany</p> <hr/> <p><b>Generating a 40-years AVHRR NDVI Composite Time Series for Europe at 1 km resolution</b> <b>Sarah Asam, Christina Eisfelder, Andreas Hirner, Philipp Reiners, Martin Bachmann, Stefanie Holzwarth</b> German Aerospace Center (DLR), Germany</p> <hr/> <p><b>Environmental Impacts of Earth Observation (EO) Data in the Constellation Age</b> <b>Karen Anderson, Magdalena Mleczko, Robert Brewin, Kevin Gaston, Markus Mueller, Jamie Shutler, Xiaoyu Yan, Ruby Wilkinson</b> University of Exeter, United Kingdom</p> <hr/> <p><b>The Enmap-Box: Making Better Use of Multi- and Hyperspectral Data in Qgis</b></p>

		<p><b>Benjamin Jakimow<sup>1</sup>, Akpona Okujeni<sup>1</sup>, Andreas Janz<sup>1</sup>, Fabian Thiel<sup>2</sup>, Leon-Friedrich Thomas<sup>3</sup>, Patrick Hostert<sup>1</sup>, Sebastian van der Linden<sup>2</sup></b>  1: Humboldt-Universität zu Berlin, Earth Observation Lab, Germany; 2: University of Greifswald, Earth Observation and Geoinformation Science Lab, Germany; 3: University of Helsinki, Department of Agricultural Sciences, Finland</p>
<p><b>11:00am</b> - <b>11:30am</b></p>	<p><b>Coffee break Tue1</b>  Location: <b>Business School of Manchester Metropolitan University</b></p>	<p><b>Tuesday Poster Session</b>  Location: <b>Business School North Atrium Foyer</b></p> <hr/> <p><b>Mapping and Monitoring of Grass Species in Arid Ecosystems of Namibia – A Multi-Sensor Approach</b>  <b>Daniel Wyss<sup>1</sup>, Paul Bantelmann<sup>1</sup>, Martin Kappas<sup>1</sup>, Helen Sophie Schmidt<sup>1</sup>, Elisabeth Twitileni Pius<sup>2</sup></b>  1: Georg August University Göttingen, Germany; 2: Namibia University of Sciences and Technology</p> <hr/> <p><b>Towards A Comprehensive Appraisal Of Eco-Hydro-Geomorphic Functioning In Drylands Based On Structure Traits And UAS Data</b>  <b>Eva Arnau-Rosalen<sup>1</sup>, Adolfo Calvo-Cases<sup>2</sup>, Angel Marques-Mateu<sup>3</sup>, Emilio Rodriguez-Caballero<sup>4</sup>, Ramon Pons-Crespo<sup>3</sup>, Matilde Balaguer-Puig<sup>3</sup>, Roberto Lazaro-Suau<sup>5</sup>, Jorge Lopez-Carratala<sup>6</sup>, Elias Symeonakis<sup>1</sup></b>  1: Manchester Metropolitan University, United Kingdom; 2: University of València, Interuniversity Institute for Local Development (IIDL), Spain; 3: Universitat Politècnica de València, Department of Cartographic Engineering, Geodesy and Photogrammetry, Spain; 4: University of Almería, Department of Agronomy, Spain; 5: Experimental Station of Arid Zones (EEZA-CSIC), Department of Desertification and Geo-Ecology, Almería, Spain; 6: Catholic University of Murcia-UCAM, Spain</p> <hr/> <p><b>Remote-Sensing Based Detection of Dunes in the Atacama Desert – a Contribution to the Pedosphere-Biosphere Interaction of Coastal Fog Ecosystems in Northern Chile</b>  <b>Luca Jehle<sup>1</sup>, Maike Petersen<sup>1</sup>, Alexander Siegmund<sup>1,2</sup></b>  1: Heidelberg University of Education, Department of Geography - Research Group for Earth Observation (rgeo), Germany; 2: Heidelberg University, Institute of Geography &amp; Heidelberg Center for the Environment (HCE), Germany</p> <hr/> <p><b>Towards Sustainable Water Resource Management: WebGIS-Based Real-Time River Discharge Optimization System.</b>  <b>Martin W. Chege<sup>1,2</sup>, Kuria B. Thiong'o<sup>1,2</sup>, Arthur W. Sichangi<sup>2</sup>, Moses M. Ngigi<sup>2</sup>, Andreas Rienow<sup>3</sup></b>  1: Remote sensing Research Group (RSRG); 2: Institute of Geomatics GIS &amp; Remote sensing, Dedan Kimathi University of Technology (DeKUT), Kenya; 3: Ruhr-University Bochum, Interdisciplinary Geographic Information Science, Germany</p> <hr/> <p><b>Thermal Remote Sensing Application on Brazilian Subtropical Region to Identify Sandinization Processes</b>  <b>Fabio Marcelo Breunig<sup>1</sup>, Lenio Soares Galvão<sup>2</sup>, Marcos Adami<sup>2</sup>, Ricardo DalAgnol<sup>3</sup>, Tony Vinicius Sampaio<sup>1</sup>, Romario Trentin<sup>4</sup></b>  1: Federal University of Paraná (UFPR), Department of Geography, Brazil.; 2: Brazilian National Institute for Space Research (INPE), Remote Sensing Division, Brazil.; 3: University of California Los Angeles (UCLA), Institute of the Environment and Sustainability, USA.; 4: Federal University of Santa Maria (UFSM), Department of Geography, Brazil.</p> <hr/> <p><b>Land Use and Climate Change Dynamics in the Okavango River Basin of Namibia and Angola</b>  <b>Kaleb Negussie<sup>1,2</sup>, Daniel Wyss<sup>2</sup>, Martin Kappas<sup>2</sup></b>  1: Namibia University of Science and Technology, Namibia; 2: Georg-August University Göttingen, Germany</p> <hr/> <p><b>30-years Vegetation Trends for Europe Derived from the TIMELINE NDVI Time-series</b></p>



		<p><b>Christina Eisfelder, Sarah Asam, Andreas Hirner, Philipp Reiners, Martin Bachmann, Stefanie Holzwarth</b> German Aerospace Center (DLR), German Remote Sensing Data Center (DFD), Germany</p> <hr/> <p><b>Annual Monitoring Of Vegetation Dynamics In The Baltic Sea Region (2000 – 2022)</b> <b>Vu Dong Pham<sup>1,2</sup>, Fabian Thiel<sup>1</sup>, Farina de Ward<sup>1</sup>, Christina Hellman<sup>1</sup>, Duc Viet Nguyen<sup>1</sup>, Felix Beer<sup>1</sup>, Alexandra Barthelmes<sup>3</sup>, David Frantz<sup>4</sup>, Sebastian van der Linden<sup>1,2</sup></b> 1: Institute of Geography and Geology, University of Greifswald, Partner in the Greifswald Mire Centre, Friedrich-Ludwig-Jahn-Str. 16, 17489 Greifswald, Germany; 2: Interdisciplinary Centre for Baltic Sea Region Research (IFZO), University of Greifswald, 17489 Greifswald.; 3: Institute of Botany and Landscape Ecology, University of Greifswald, Soldmannstraße 15 17487 Greifswald; 4: Geoinformatics – Spatial Data Science, Trier University, Behringstraße 21, Trier 54296, Germany.</p> <hr/> <p><b>Using RNN-based Models For Vegetation Prediction With PlanetScope Time Series And Meteorological Data</b> <b>Ales Marsetic<sup>1,2</sup>, Ursa Kanjir<sup>1</sup></b> 1: ZRC SAZU, Slovenia; 2: Space-SI, Slovenia</p> <hr/> <p><b>Land Cover Data Mapping from Multisensor Imagery for Soil Erosion Predictive Modelling in Mountain Protected Areas. A Case Study from Bucegi Mountains High Plateau, Romanian Carpathians.</b> <b>Bogdan Andrei Mihai<sup>1</sup>, Marina Virghileanu<sup>1</sup>, Ionuț Săvulescu<sup>1</sup>, Bogdan Olariu<sup>1</sup>, Ionuț Șandric<sup>1</sup>, Carmen Bizdadea<sup>2</sup></b> 1: University of Bucharest, Faculty of Geography, Romania; 2: University of Bucharest, Simion Mehedinți Doctoral School, Faculty of Geography, Romania</p>
<p>11:30am - 1:00pm</p>	<p><b>W2 LULC</b> Location: <b>BS G.36</b> Chair: <b>Prof. Dr. Sebastian van der Linden</b> Chair: <b>Dr. Gregory Giuliani</b></p> <p><b>Monitoring Vegetation Essential Climate Variables using Multispectral Satellite Imagery: What can we actually map?</b> <b>Richard Anthony Fernandes<sup>1</sup>, Luke Brown<sup>2</sup>, Jadu Dash<sup>3</sup>, Najib Djamai<sup>1</sup>, Gang Hong<sup>1</sup>, Courtney Meier<sup>4</sup>, Harry Morris<sup>5</sup>, Lixin Syn<sup>1</sup></b> 1: CANADA CENTRE FOR REMOTE SENSING, GOVERNMENT OF CANADA, CANADA; 2: UNIVERSITY OF SALFORD, UNITED KINGDOM; 3: UNIVERSITY OF SOUTHAMPTON, UNITED KINGDOM; 4: BATELLE ECOLOGY, UNITED STATES OF AMERICA; 5: NATIONAL PHYSICAL LABORATORY, UNITED KINGDOM</p> <hr/> <p><b>SI Traceable Validation Of Copernicus Biophysical Products Using An fAPAR Network</b> <b>Harry Morris, Chloe Randall, Morven Sinclair, Rasma Ormane, Matthew Scholes, Niall Origo</b> National Physical Laboratory, United Kingdom</p> <hr/> <p><b>Prediction of Forest Floor Spectral Properties from LiDAR and SAR Sensors in Temperate and Boreal Forests</b> <b>Audrey Mercier<sup>1</sup>, Mari Myllymäki<sup>1,2</sup>, Aarne Hovi<sup>1</sup>, Daniel Schraik<sup>1,2</sup>, Miina Rautiainen<sup>1</sup></b> 1: School of Engineering, Aalto University, Espoo, Finland; 2: Natural Resources Institute Finland (Luke), Latokartanonkaari 9, 00790 Helsinki, Finland</p> <hr/> <p><b>Assessing Effects of Forest Disturbance on Land Surface Temperature in Low Mountain Ranges of Central Germany using GEE and the Landsat Archive</b></p>	<p><b>Young Scientist Awards</b> Location: <b>BS G.35</b></p> <p><b>Canopy Temperature Mapping at Different Crop Growth Stages to Assess Water Stress in Maize</b> <b>Quanxing Wan<sup>1</sup>, Magdalena Smigaj<sup>1</sup>, Benjamin Brede<sup>2</sup>, Lammert Kooistra<sup>1</sup></b> 1: Laboratory of Geo-Information Science and Remote Sensing, Wageningen University &amp; Research, Droevendaalsesteeg 3, 6708 PB Wageningen, The Netherlands; 2: Helmholtz Center Potsdam GFZ German Research Centre for Geosciences, Section 1.4 Remote Sensing and Geoinformatics, Telegrafenberg, 14473 Potsdam, Germany</p> <hr/> <p><b>Phytoplankton Diversity Along The Spanish Mediterranean Coast Through Satellite Optical Radiometry</b> <b>Gonzalo Martínez Fornos<sup>1,2,3</sup>, Annalisa Di Cicco<sup>4</sup>, Marco Talone<sup>1,2</sup>, Elisa Berdalet<sup>2</sup></b> 1: Barcelona Expert Centre, Barcelona, Spain; 2: Instituto de Ciencias del Mar (ICM-CSIC), Barcelona, Spain; 3: Universidad Politécnica de Catalunya, Barcelona, Spain; 4: Istituto di Scienze Marine (ISMAR-CNR), Rome, Italy</p> <hr/> <p><b>Measuring Urban Socioeconomic Disparities In The Global South From Space Using Convolutional Neural Network: The Case of City of Kigali, Rwanda</b> <b>Esaie Dufitimana</b> Quantum Leap Africa/African Institute for Mathematical Sciences (AIMS), Rwanda</p> <hr/> <p><b>Improving Land Surface Temperature Observations With Machine Learning Techniques</b> <b>Abigail Marie Waring<sup>1,2</sup>, Darren Ghent<sup>1,2</sup>, David Moffat<sup>2,3</sup>, John Remedios<sup>1,2</sup></b></p>

	<p><b>Simon Grieger<sup>1</sup>, Lajos Blume<sup>1</sup>, Martin Kappas<sup>1</sup>, Susanne Karel<sup>2</sup>, Philipp Koal<sup>3</sup>, Birgitta Putzenlechner<sup>1</sup></b>  1: Georg August University of Göttingen, Institute of Geography, Department Cartography, GIS and Remote Sensing, Germany; 2: Austrian Research Centre for Forests (BFW), Department of Forest Inventory, Austria; 3: Forestry Research and Competence Centre Gotha (FFK), ThüringenForst AöR, Germany</p> <p><b>Biogeophysical Effects of Forest Cover Loss and the Role of Forest Management: Multi-scale Optical and Thermal Monitoring of Disturbance Plots in Central Germany</b>  <b>Birgitta Putzenlechner<sup>1</sup>, Simon Grieger<sup>1</sup>, Philipp Koal<sup>2</sup>, Susanne Karel<sup>3</sup>, Leon Ramin<sup>1</sup>, Lajos Blume<sup>1</sup>, Timo Lehmann<sup>1</sup>, Martin Kappas<sup>1</sup>, Ingolf Profft<sup>2</sup></b>  1: Georg-August-University Göttingen, Germany; 2: Forest Research and Competence Center Gotha (FFK), ThüringenForst AöR, Germany; 3: Austrian Research Centre for Forests (BFW), Department of Forest Inventory, Austria</p> <p><b>Earth Observation Based Tools to Support Sustainable Forest Certification</b>  <b>Janik Deutscher<sup>1</sup>, Martin Puhm<sup>1</sup>, Petra Miletich<sup>1</sup>, Andreas Wimmer<sup>1</sup>, Roland Perko<sup>1</sup>, Max Kampen<sup>2</sup>, Koimé Kouacou<sup>3</sup>, Sebastian Vogler<sup>3</sup>, Anh Nguyen<sup>3</sup>, Natalia Kobiuk<sup>3</sup></b>  1: Joanneum Research, Austria; 2: Sinergise Solutions GmbH, Austria; 3: Beetle ForTech, Austria</p>	<p>1: University of Leicester, School of Physics &amp; Astronomy, Department of Earth Observation Science; 2: National Centre for Earth Observation (NCEO); 3: Plymouth Marine Laboratory</p> <p><b>Semi-supervised Learning for the Mapping of Salix Trees Using Multi-temporal Planetscope Imagery.</b>  <b>Robbe Neyns, Pieter Libin, Kyriakos Efthymiadis, Frank Canters</b>  Vrije Universiteit Brussel, Belgium</p> <p><b>Multi-sensor Analysis Of Variability In Rice Transplanting Dates In Smallholder Rice Production Systems In South Asia</b>  <b>Pauline Kimani<sup>1,2</sup>, Timothy Foster<sup>1</sup>, Ben Parkes<sup>1</sup>, Shu Kee Lam<sup>2</sup>, Alexis Pang<sup>2</sup></b>  1: The University of Manchester; 2: The University of Melbourne</p>
<p>1:00pm - 2:30pm</p>	<p><b>Lunch Tuesday</b>  Location: <a href="#">Business School of Manchester Metropolitan University</a></p>	
<p>2:30pm - 3:00pm</p>	<p><b>Keynote M. Disney</b>  Location: <a href="#">BS G.36</a></p>	
<p>3:00pm - 4:00pm</p>	<p><b>Drylands S1</b>  Location: <a href="#">BS G.36</a></p> <p><b>Towards a Global Spectral Biocrust Dataset, a Missing Piece of Drylands's Earth Observation</b>  <b>Juan Francisco Martinez-Sanchez<sup>1</sup>, Yolanda Canton<sup>1</sup>, Sonia Chamizo<sup>2</sup>, Bettina Weber<sup>3</sup>, M.Pilar Martín<sup>4</sup>, Emilio Rodríguez-Caballero<sup>1</sup></b>  1: Center for Scientific collections at the University of Almeria (CECOUAL), Spain; 2: ESTACION EXPERIMENTAL DE ZONAS ARIDAS (CSIC), Spain; 3: UNIVERSITY OF GRAZ, Austria; 4: ENVIRONMENTAL REMOTE SENSING AND SPECTROSCOPY LABORATORY (SPECLAB-CSIC), Spain</p> <p><b>Application of Unmanned Aerial vehicles to Enhance the Spatial Distribution of Indigenous Species to be introduced during dryland ecosystem Restoration</b>  <b>Yolanda Canton<sup>1</sup>, Janira Fernandez<sup>1</sup>, Juan Martinez<sup>1</sup>, Lisa Maggioli<sup>1</sup>, Aitor Alameda<sup>1</sup>, Sonia Chamizo<sup>2</sup>, Emilio Rodriguez<sup>1</sup></b>  1: University of Almeria, Spain; 2: EEZA-CSIC</p> <p><b>Biocrust Effects on the Spectral Response of Drylands Regions to Water Pulses, Implications for Ecosystem</b>  <b>Borja Rodríguez-Lozano, Emilio Rodríguez-Caballero, Carlos Adolfo Urueta-Urueta, Yolanda Cantón</b>  University of Almeria, Spain</p> <p><b>Vegetation Colonization On Agricultural Terrace Landscapes: Recovery Trends Triggered By Abandonment And Wildfires Using Landsat Series In The Mediterranean.</b>  <b>Eva Arnau-Rosalen<sup>1,3</sup>, Adolfo Calvo-Cases<sup>2</sup>, Alberto Belenguer-Estevan<sup>3</sup>, Elias Symeonakis<sup>1</sup></b>  1: Manchester Metropolitan University, United Kingdom; 2: University of València, Interuniversity Institute for Local</p>	<p><b>W3 LULC</b>  Location: <a href="#">BS G.36</a>  Chair: <a href="#">Dr. Gregory Giuliani</a>  Chair: <a href="#">Dr. Birgitta Putzenlechner</a></p> <p><b>Quality Estimation Of Land Cover Maps: Review Of Methods And An Outlook From The Perspective Of Metrology</b>  <b>Anna Pustogvar<sup>1,2</sup>, Bernardo Mota<sup>1</sup>, Samuel E. Hunt<sup>1</sup>, Andrew Thompson<sup>1</sup>, Heiko Balzter<sup>2,3</sup></b>  1: National Physical Laboratory, United Kingdom; 2: University of Leicester, United Kingdom; 3: National Centre for Earth Observation, United Kingdom</p> <p><b>Evaluation of Large Scale Synthetic Multispectral Satellite Images using Generative Adversarial Networks on Land Cover and Sentinel-2 Data</b>  <b>Torben Dedring, Andreas Rienow</b>  Ruhr University Bochum, Germany</p> <p><b>Impacts of Equal and Proportional Allocations in Accuracy Assessment of a Rare Class</b>  <b>Ismael José Ferverça de Jesus<sup>1,2</sup>, Cidália Maria Parreira da Costa Fonte<sup>2,3</sup>, Alberto Jorge Lebre Cardoso<sup>1</sup>, Jacinto Paulo Simões Estima<sup>1</sup></b>  1: University of Coimbra, CISUC, Department of Informatics Engineering, Coimbra, Portugal; 2: Institute for Systems Engineering and Computers at Coimbra (INESC Coimbra), Coimbra, Portugal; 3: University of Coimbra, Department of Mathematics, Coimbra, Portugal</p> <p><b>A Method for Detecting and Distinguishing Light and Dark Terrain Shadows in Very High-resolution Satellite Imagery</b>  <b>Xiao Zhu<sup>1</sup>, Tiejun Wang<sup>1</sup>, Andrew Skidmore<sup>1</sup>, Stephen Lee<sup>2</sup>, Isla Duporge<sup>3,4</sup></b>  1: University of Twente, Faculty of Geo-Information Science and Earth Observation, The Netherlands; 2: U.S. Army Research Laboratory, Army Research Office, United States; 3: The National Academies of Sciences, United States; 4:</p>

	Development (IIDL), Spain; 3: University of València, Department of Geography, Spain	Princeton University, Department of Ecology and Evolutionary Biology, United States
		<b>Mapping of Invasive Black Locust (<i>Robinia pseudoacacia</i>): Investigating Temporal and Spatial Transferability of classification model using 6-year Sentinel-2 data</b> <b>Tomáš Rusňák, Andrej Halabuk</b> ILE SAS v.v.i., Slovak Republic
4:00pm - 4:30pm	<b>Coffee break Tue2</b> Location: <a href="#">Business School of Manchester Metropolitan University</a>	<b>Tuesday Poster Session (cont)</b> Location: <a href="#">Business School North Atrium Foyer</a>
4:30pm - 6:00pm	<b>Drylands S2</b> Location: <a href="#">BS G.35</a> <b>Dryland Patchy Vegetation Cover Delineation From Orthoimages: Spatial Patterns And Scale Issues</b> <b>Eva Arnau-Rosalen<sup>1</sup>, Angel Marques-Mateu<sup>2</sup>, Antonis Korkofigkas<sup>3</sup>, George Vamvoukakis<sup>3</sup>, Christina Karakizi<sup>1</sup>, Ramon Pons-Crespo<sup>2</sup>, Emilio Rodriguez-Caballero<sup>4</sup>, Roberto Lazaro-Suau<sup>5</sup>, Adolfo Calvo-Cases<sup>6</sup>, Elias Symeonakis<sup>1</sup></b> 1: Manchester Metropolitan University, United Kingdom; 2: Universitat Politècnica de València.; 3: National Technical University of Athens; 4: University of Almería; 5: Experimental Station of Arid Zones (EEZA-CSIC); 6: University of València <b>Fractional Mapping of Savannah Vegetation Species using Drone and EnMap Hyperspectral Data</b> <b>Christina Karakizi<sup>1</sup>, Akpona Okujeni<sup>2</sup>, Konstantinos Karantzalos<sup>3</sup>, Patrick Hostert<sup>2</sup>, Elias Symeonakis<sup>1</sup></b> 1: Manchester Metropolitan University; 2: Humboldt-Universität zu Berlin; 3: National Technical University of Athens <b>How Satellite-derived Phenology Reveals Vegetation Growth Forms in Namibia's Drylands</b> <b>Lasse Harkort<sup>1</sup>, Vistorina Amputu<sup>2</sup>, Jari Mahler<sup>3</sup>, Leon Nill<sup>1</sup>, Akpona Okujeni<sup>1</sup>, Achim Röder<sup>3</sup>, Patrick Hostert<sup>1,4</sup></b> 1: Humboldt University Berlin, Germany; 2: University of Tübingen, Germany; 3: Trier University, Germany; 4: IRI THESys, Humboldt-Universität zu Berlin <b>Exploring the Resilience of Holm Oak Woodlands to Extreme Droughts Using a Large-scale Remote Sensing Approach in Eastern Spain</b> <b>Mariano Moreno de las Heras<sup>1</sup>, Esther Bochet<sup>2</sup>, Sergio M. Vicente-Serrano<sup>3</sup>, Tíscar Espigares<sup>4</sup>, Maria J. Molina<sup>2</sup>, Vicente Monleón<sup>5</sup>, José M. Nicolau<sup>6,7</sup>, Jaime Tormo<sup>6,7</sup>, Patricio García-Fayos<sup>2</sup></b> 1: Universitat de Barcelona, Spain; 2: Desertification Research Centre (CIDE, CSIC-UV-GVA), Spain; 3: Pyrenean Institute of Ecology (IPE-CSIC), Spain; 4: Universidad de Alcalá, Spain; 5: US Forest Service Pacific Northwest Research Station, USA; 6: Universidad de Zaragoza, Spain; 7: Environmental Sciences Institute of Aragón (IUCA), Spain <b>Exploring the Influence of Land Use Changes on Soil Quality in Dryland Regions Using Imaging Spectroscopy</b> <b>Tarin Paz Kagan</b> Ben-Gurion University of the Negev, Israel, Israel <b>A Combined Approach of Optimizing Object-Based Image Analysis (OBIA) for WorldView-3 Imagery of Mankweng, South Africa</b> <b>Deepthi Patric<sup>1</sup>, Gertrud Schaab<sup>1</sup>, Martin Kappas<sup>2</sup>, Daniel Wyss<sup>2</sup></b> 1: KARLSRUHE UNIVERSITY OF APPLIED SCIENCES, INSTITUTE OF APPLIED RESEARCH, GERMANY; 2: UNIVERSITY OF GÖTTINGEN, INSTITUTE OF GEOGRAPHY, GERMANY	<b>W4 LULC</b> Location: <a href="#">BS G.36</a> Chair: <a href="#">Dr. Birgitta Putzenlechner</a> Chair: <a href="#">Dr. Gregory Giuliani</a> <b>Land Use and Land Cover Mapping on National Scale</b> <b>Roland Perko, Sead Mustafic, Petra Miletich, Karlheinz Gutjahr</b> Joanneum Research, Austria <b>Land Cover Classification Refinement Through Image Segmentation</b> <b>Jan Svoboda<sup>1</sup>, Bertrand le Saux<sup>2</sup>, Peter Naylor<sup>2</sup>, Josef Laštovička<sup>1</sup>, Přemysl Štych<sup>1</sup></b> 1: Charles University - Faculty of Science, Czech Republic; 2: Φ-lab, ESRIN, European Space Agency, Frascati I-0044, Italy <b>Insects and Earth Observation for Biodiversity Monitoring</b> <b>Faith Ashiono, Tobias Landmann, Juliet Onditi, Henri E.Z Tonnang</b> International Centre of Insect Physiology and Ecology (icipe), Nairobi, Kenya <b>Assessing The Accuracy Of Sentinel 1 And Sentinel 2 Derived Shorelines Using Ground Truth Data</b> <b>Adéla Šedová<sup>1</sup>, Triantafyllia-Maria Perivolioti<sup>2</sup>, Jesús Palomar-Vázquez<sup>3</sup>, Markéta Potůčková<sup>1</sup>, Josep E. Pardo-Pascual<sup>3</sup>, Antonios Mouratidis<sup>2</sup></b> 1: Charles University, Czech Republic; 2: Aristotle University of Thessaloniki, Greece; 3: Polytechnical University of Valencia, Spain <b>An Assessment Of Long-term And Large-scale Wetlands Change Dynamics In The Limpopo Transboundary Basin Using Cloud-based Earth Observations Data</b> <b>Siyamthanda Gxokwe<sup>1,2</sup>, Timothy Dube<sup>1</sup>, Nancy Job<sup>2</sup>, Dominic Mazvimavi<sup>1</sup></b> 1: University of the Western Cape, South Africa; 2: South African National Biodiversity Institute, South Africa <b>Imaging Spectrometer Employing Digital Focal Plane Array for Fire Detection</b> <b>Ronald Lockwood, Michael Griffin, Kevin Ryu, Michael Chrisp, James Johnson, Corrie Smeaton, Michael Pieper</b> Massachusetts Institute of Technology Lincoln Laboratory, United States of America

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<b>6:00pm</b> -	<b>EARSeL Council Meeting (members only)</b> Location: <b>BS G.34</b>
<b>7:00pm</b>	
<b>6:00pm</b> -	<b>City tour</b> Location: <b>Business School of Manchester Metropolitan University</b> City tour on foot, meet up in the Conference Venue (Business School).
<b>9:00pm</b>	

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<p>8:00am - 5:00pm</p>	<p><b>Reg 3: Registration</b> Location: <a href="#">Business School of Manchester Metropolitan University</a></p>	
<p>9:00am - 9:30am</p>	<p><b>Keynote M. Belgiu</b> Location: <a href="#">BS G.26</a></p>	
<p>9:30am - 11:00am</p>	<p><b>Urban S1</b> Location: <a href="#">BS 3.11</a></p> <p><b>Improving Settlement Classification Method For Urban Systems Using Satellite-Derived Building Footprint Dataset</b> <b>Wole Ademola Adewole</b><sup>1,2</sup>, <b>Ortis Yankey</b><sup>1,2</sup>, <b>Edson Utazi</b><sup>1,2</sup>, <b>Chris Lloyd</b><sup>1,2</sup>, <b>Samantha Cockings</b><sup>1</sup>, <b>Andrew J Tatem</b><sup>1,2</sup> 1: University of Southampton, United Kingdom; 2: WorldPop, Geography and Environmental Science, University of Southampton, United Kingdom</p> <p><b>Heat Health Risk Mapping at Regional Scale Using Land Surface Temperature and Socioeconomic Indicators in Wallonia, Belgium</b> <b>Yasmina Loozen</b><sup>1</sup>, <b>Coraline Wyard</b><sup>1</sup>, <b>Laure Roupioz</b><sup>2</sup>, <b>Eric Hallot</b><sup>1</sup> 1: ISSeP, Remote sensing and Geodata Unit, Belgium; 2: ONERA DOTA, France</p> <p><b>A Comparative Multitemporal Analysis of Spatial Justice and Sustainable Development in Conflict-affected Regions: Lessons from the Syrian War and the Nacala Development Corridor in Mozambique</b> <b>Andreas Rienow</b>, <b>Mounir Azzam</b>, <b>Ricardo Gellert Paris</b> Ruhr-University Bochum, Germany</p> <p><b>Constructing a Large-scale 3D Building and Tree Model for Glasgow City via Airborne LiDAR Point Clouds</b> <b>Qiaosi Li</b>, <b>Qunshan Zhao</b> Urban Big Data Centre, School of Social and Political Sciences, University of Glasgow, Glasgow, UK</p> <p><b>Calculating a Multitemporal Local Climate Zone Dataset for European Cities</b> <b>Anna Hellings</b><sup>1</sup>, <b>Andreas Rienow</b><sup>1</sup>, <b>Benjamin Bechtel</b><sup>1</sup>, <b>Matthias Demuzere</b><sup>2</sup> 1: Ruhr University Bochum, Germany; 2: Ghent University, Belgium</p>	<p><b>W1 G. South</b> Location: <a href="#">BS G.26</a> Chair: <b>Monika Kuffer</b> Chair: <b>Dr. Stefanos Georganos</b></p> <p><b>Data-Centric AI To Map And Characterize Informal Settlements From Earth Observation Data</b> <b>Bedru Tareke</b><sup>1</sup>, <b>Paulo Silva Filho</b><sup>1</sup>, <b>Claudio Persello</b><sup>1</sup>, <b>Monika Kuffer</b><sup>1</sup>, <b>Raian V. Maretto</b><sup>1</sup>, <b>Jon Wang</b><sup>1</sup>, <b>Angela Abascal</b><sup>1</sup>, <b>Priam Pillai</b><sup>2</sup>, <b>Binti Singh</b><sup>3</sup>, <b>Juan Manuel D'Attoli</b><sup>4</sup>, <b>Caroline Kabaria</b><sup>5</sup>, <b>Juilo Pedrassoli</b><sup>6</sup>, <b>Patricia Brito</b><sup>6</sup>, <b>Peter Elias</b><sup>7</sup>, <b>Elio Atenogenes</b><sup>8</sup>, <b>Andrea Ramirez Santiago</b><sup>8</sup> 1: University of Twente, Netherlands, The; 2: Pillai College of Engineering, Navi Mumbai, India; 3: KRVI, Mumbai, India; 4: National Registry of Informal Settlements (RENABAP), Argentina; 5: APHRC, Nairobi, Kenya; 6: Universidade Federal da Bahia, Salvador, Brazil; 7: University of Lagos, Nigeria; 8: INEGI, Mexico</p> <p><b>Urban Heat Analysis In Africa's Most Deprived Areas: Combining Earth Observation, Machine Learning And Citizen Science</b> <b>Angela Abascal</b><sup>1</sup>, <b>Monika Kuffer</b><sup>2</sup>, <b>Sabine Vanhuysse</b><sup>3</sup>, <b>Stefanos Georganos</b><sup>4</sup>, <b>Jon Wang</b><sup>2</sup>, <b>Nicera Wanjiru</b><sup>5</sup> 1: Department of Engineering, Public University of Navarre (UPNA), Pamplona, Spain; 2: Faculty of Geo-Information Science &amp; Earth Observation (ITC), University of Twente, Enschede, The Netherlands; 3: Department of Geosciences, Environment &amp; Society, Université libre De Bruxelles (ULB), 1050 Bruxelles, Belgium; 4: Geomatics Unit, Department of Environmental and Life Sciences, Karlstad University, Sweden; 5: Community mappers, Nairobi, Kenya</p> <p><b>Evaluating Geospatial Data Adequacy for Integrated Risk Assessments: A Malaria Risk Use-Case</b> <b>Linda Petuschnig</b><sup>1,2</sup>, <b>Thomas Clemen</b><sup>2</sup>, <b>E. Sophia Klaußner</b><sup>1</sup>, <b>Ulfia Clemen</b><sup>2</sup>, <b>Stefan Lang</b><sup>1</sup> 1: University of Salzburg, Austria; 2: University of Applied Sciences Hamburg, Germany</p> <p><b>Assessing Habitat Fragmentation and Landscape Patterns in the Cerrado and Amazon Transition (CAT)</b> <b>Chuanze Li</b>, <b>Angela Harris</b>, <b>Polyanna da Conceição Bispo</b>, <b>Matthew Dennis</b> Department of Geography, School of Environment, Education and Development, University of Manchester, Oxford Road, Manchester M13 9PL, UK</p> <p><b>Assessment Of Burned Areas In Africa From High And Medium Spatial Resolution Multi-spectral Satellite Images</b> <b>Daniela Stroppiana</b><sup>1</sup>, <b>Matteo Sali</b><sup>1,2</sup>, <b>Giovanna Sona</b><sup>3</sup>, <b>Pietro Alessandro Brivio</b><sup>1</sup>, <b>Magi Franquesa</b><sup>4,5</sup>, <b>M. Lucrecia Pettinari</b><sup>5</sup>, <b>Emilio Chuvieco</b><sup>5</sup> 1: Consiglio Nazionale delle Ricerche – Istituto per il Rilevamento Elettromagnetico dell'Ambiente (CNR-IREA), Milano, Italy; 2: Università degli Studi di Milano-Bicocca, Milano, Italy; 3: Dipartimento di Ingegneria Civile e Ambientale (DICA), Politecnico di Milano, Milano, Italy; 4: Instituto Pirenaico de Ecología, Consejo Superior de Investigaciones Científicas (IPE-CSIC), Zaragoza, Spain; 5: Universidad de Alcalá, Environmental Remote Sensing Research Group, Department of Geology, Geography and the Environment, Alcalá de Henares, Spain</p>

		<p><b>Navigating Urban Complexity: assessing Socio-Spatial Dynamics in Household Waste Practices in Bandung, Indonesia</b></p> <p><b>Giulia Frigo, Claudia Binder, Christian Zurbrugg</b> EPFL (École Polytechnique Fédérale de Lausanne), Switzerland</p>
<p>11:00am - 11:30am</p>	<p><b>Coffee break Wed1</b> Location: <a href="#">Business School of Manchester Metropolitan University</a></p>	<p><b>Wednesday Poster Session</b> Location: <a href="#">Business School 3rd Floor South Atrium open space</a></p> <p><b>Identifying “Hot Spots” And “Cold Spots” In Urban Areas Using Remote Sensing Data</b></p> <p><b>Petra Miletich<sup>1</sup>, Heinz Gallau<sup>1</sup>, Judith Köberl<sup>2</sup>, Dominik Kortschak<sup>2</sup>, Michael Kernitzky<sup>2</sup></b> 1: JOANNEUM RESEARCH Forschungsgesellschaft mbH, DIGITAL - Remotesensing and Geoinformation, Austria; 2: JOANNEUM RESEARCH Forschungsgesellschaft mbH, LIFE - Weather and Climate Risk Management, Austria</p> <hr/> <p><b>Monitoring Climate Change in Urban Environments: Integrating Satellite and Ground Data in a Krakow Case Study</b></p> <p><b>Ewa Glowienka, Krystyna Michałowska, Sławomir Mikrut</b> AGH University of Krakow, Poland</p> <hr/> <p><b>A Comparative Tree Height Analysis Using GEDI, Photogrammetry Data And Field Measurements Of Selected Areas Of Patagonia</b></p> <p><b>Martin Kappas<sup>1</sup>, Katharina Walter<sup>1</sup>, Birgitta Putzenlechner<sup>1</sup>, Ariel Winter<sup>1,2</sup>, Daniel Wyss<sup>1</sup></b> 1: University of Goettingen, Germany; 2: Centro de Investigación y Extensión Forestal Andino Patagónico (CIEFAP), Argentina</p> <hr/> <p><b>Potential of TanDEM-X 30m Edited DEM</b></p> <p><b>Karsten Jacobsen</b> Leibniz University Hannover, Germany</p> <hr/> <p><b>Deriving Leaf Area Index Time Series Over Heterogeneous Landscapes In West Africa</b></p> <p><b>Verena Huber García, Frank Thonfeld, Jonas Meier, Ursula Gessner</b> German Aerospace Center (DLR), Germany</p>
<p>11:30am - 1:00pm</p>	<p><b>Urban S2</b> Location: <a href="#">BS 3.11</a></p> <p><b>Differentiating the Urban-Rural Dichotomy: A Probability-Based Approach Applied to Bavaria, Germany</b></p> <p><b>Hannes Taubenböck<sup>1,2</sup>, Ariane Droin<sup>2</sup>, Ines Standfuß<sup>1</sup>, Michael Wurm<sup>1</sup>, Marta Sapena<sup>1</sup>, Tobias Ullmann<sup>2</sup></b> 1: German Aerospace Center (DLR), German Remote Sensing Data Center (DFD), Germany; 2: Julius-Maximilians-Universität Würzburg, Institute of Geography and Geology, Germany</p> <hr/> <p><b>Do Disasters Disrupt The Spatial Growth Of Informal Settlements? The Case Of Mocoa, Colombia</b></p> <p><b>Ricardo Camacho, Jagannath Aryal, Abbas Rajabifard</b> The University of Melbourne, Australia</p> <hr/> <p><b>Spectral Unmixing of PRISMA Hyperspectral Imagery for Assessing the Correlation Between Material Abundances and LST</b></p> <p><b>Alberto Vavassori, Maria Antonia Brovelli</b> Politecnico di Milano, Italy</p> <hr/> <p><b>Web Tool for Detecting and Extracting Rooftop Solar Panels</b></p> <p><b>Adedayo Kelvin Adeleke, Hlonela Mntonintshi</b> University of Pretoria, South Africa</p>	<p><b>W2 G. South</b> Location: <a href="#">BS G.26</a> Chair: <b>Monika Kuffer</b> Chair: <b>Dr. Stefanos Georganos</b></p> <p><b>Assessing the Data Quality of GHSL and Other Global Data Sets for Monitoring Urbanisation in the Global South</b></p> <p><b>Thomas Kemper, Martino Pesaresi, Michele Melchiorri, Johannes H. Uhl</b> European Commission, Italy</p> <hr/> <p><b>Mapping Urban Land Use in Data-scarce Areas of the Global South</b></p> <p><b>Jasper van Vliet, Job Rosier</b> VU University Amsterdam, Institute for Environmental Studies, the Netherlands</p> <hr/> <p><b>Introduction to DIY-BU-Mapping Tool: Mapping Urban Expansion in Africa on the Cloud</b></p> <p><b>Marta Sapena<sup>1</sup>, Johannes Mast<sup>1</sup>, Christian Geiß<sup>1,2</sup>, Hannes Taubenböck<sup>1,3</sup></b> 1: German Aerospace Center (DLR), German Remote Sensing Data Center (DFD), Germany; 2: University of Bonn, Department of Geography, Germany; 3: Julius-Maximilians-Universität Würzburg, Institute of Geography and Geology, Germany</p> <hr/> <p><b>Measuring and mapping Tenure Security using Earth Observation and Open Geo-Spatial Data</b></p>

	<p><b>Daily Ground-Level O3 Prediction Models for the Continental Biogeographical Region using Open Remote Sensing Data and Machine Learning: A Case Study for the Veneto Region</b></p> <p><b>Luka Mamic<sup>1</sup>, Francesco Pirotti<sup>2,3</sup></b>  1: Sapienza University of Rome, Department of Civil, Building and Environmental Engineering, Italy; 2: University of Padua, Department of Land and Agroforestry Systems (TESAF), Italy; 3: University of Padua, Interdepartmental Research Centre in Geomatics (CIRGEO), Italy</p>	<p><b>Divyani Kohli-Poll Jonker<sup>1</sup>, Dana Thomson<sup>2</sup>, Ron Mahabir<sup>3</sup>, Monika Kuffer<sup>1</sup></b>  1: ITC, University of Twente, The Netherlands; 2: Columbia climate School, United States; 3: University of Liverpool, United Kingdom</p>
	<p><b>UHeat – Assessing Urban Heat Island Intensity</b></p> <p><b>Mark Hallows, Guneet Hawley, Dimple Rana, Nabihah Ghufoor, Attila Lukacs, Ben Coombs</b>  Arup, United Kingdom</p>	<p><b>Monitoring Urban Green Space Cover Change Using GIS and Remote Sensing in Two Rapidly Urbanizing Cities, Debre Berhan and Debre Markos, Ethiopia</b></p> <p><b>Alemaw Kefale Getnet<sup>1,2</sup>, Aramde Fetene Mengistu<sup>2</sup>, Hayal Desta Yimer<sup>2</sup></b>  1: Addis Ababa Science and Technology University, Ethiopia; 2: Ethiopian Institute of Architecture, Building Construction and City Development, Addis Ababa University, Ethiopia</p>
		<p><b>Assessing And Monitoring The Effectiveness Of The Biological Control Implemented To Address The Invasion Of Water Hyacinth (Eichhornia Crassipes) In Hartbeespoort Dam, South Africa</b></p> <p><b>Timothy Dube<sup>1</sup>, Pawu Mqingwana<sup>1</sup>, Cletah Shoko<sup>2</sup>, Siyamthanda Gxokwe<sup>1</sup></b>  1: University of the Western Cape, South Africa; 2: The University of Witwatersrand, South Africa</p>
1:00pm - 2:30pm	<p><b>Lunch Wednesday</b>  Location: <a href="#">Business School of Manchester Metropolitan University</a></p>	
2:30pm - 3:00pm	<p><b>Keynote M. Pfeifer</b>  Location: <a href="#">BS G.26</a></p>	
3:00pm - 4:00pm	<p><b>W3 G. South</b>  Location: <a href="#">BS G.26</a>  Chair: <b>Monika Kuffer</b>  Chair: <b>Dr. Stefanos Georganos</b></p>	
	<p><b>Spatio-Temporal Changes of Morphological Slums Around the World</b></p> <p><b>John Friesen<sup>1</sup>, Nicolas Johannes Kraff<sup>2</sup>, Hannes Taubenböck<sup>1,2</sup></b>  1: University of Würzburg, Germany; 2: German Aerospace Center, Germany</p>	
	<p><b>The IDEAMAPS Modelling Framework: Modelling Sub-domains of Deprivation</b></p> <p><b>Monika Kuffer<sup>1</sup>, Angela Abascal<sup>1</sup>, Ryan Engstrom<sup>2</sup>, Grant Tregonning<sup>3</sup>, Dana R. Thomson<sup>4</sup>, Adenike Shonowo<sup>3</sup>, Qunshan Zhao<sup>3</sup>, Alexandra Middleton<sup>5</sup>, Wenlan Zhang<sup>6</sup>, Joao Porto de Albuquerque<sup>3</sup></b>  1: University of Twente, Netherlands, The; 2: George Washington University, USA; 3: University of Glasgow, UK; 4: Columbia University, USA; 5: University of Warwick, UK; 6: UCL, UK</p>	
	<p><b>Between Light Pollution and Missing Access to Essential Light at Night</b></p> <p><b>Angela Abascal<sup>1,2</sup>, Monika Kuffer<sup>2</sup>, Alejandro Sanchez<sup>3</sup>, Christopher C. M Kyba<sup>4,5</sup>, Miguel Román<sup>6</sup>, Franz Höller<sup>7</sup></b>  1: Public University of Navarre, Spain; 2: University of Twente, The Netherlands; 3: Universidad Complutense de Madrid, Spain; 4: GFZ German Research Centre for Geosciences, Germany; 5: Ruhr-University Bochum, Germany; 6: Leidos, Inc. United States; 7: Leibniz Institute of Freshwater Ecology and Inland Fisheries, Germany</p>	
	<p><b>Differences Between Formal and Informal Settlements in Accessibility to Healthcare in Sub-Saharan Cities</b></p> <p><b>John Friesen<sup>1</sup>, Stefanos Georganos<sup>2</sup>, Jan Haas<sup>2</sup></b>  1: University of Würzburg, Germany; 2: Karlstad University, Sweden</p>	
4:00pm - 4:30pm	<p><b>Coffee break Wed2</b>  Location: <a href="#">Business School of Manchester Metropolitan University</a></p>	<p><b>Wednesday Poster Session (cont)</b>  Location: <a href="#">Business School 3rd Floor South Atrium open space</a></p>
4:30pm - 6:00pm	<p><b>Geological</b>  Location: <a href="#">BS 3.11</a></p> <p><b>Satellite Data Processing In The Frame Of The M4mining Project. A Case Study From Greece.</b></p> <p><b>Konstantinos Nikolakopoulos<sup>1</sup>, Evlampia Kouzeli<sup>1</sup>, Saeid Asadzadeh<sup>2</sup>, Nicole Köllner<sup>2</sup>, Friederike Koerting<sup>3</sup>, Justus Constantin Hildebrand<sup>3</sup>, Steven Micklethwaite<sup>4</sup>, Ekaterina Savinova<sup>4</sup></b>  1: University of Patras, Greece; 2: GFZ, Germany; 3: NORSELEKTRO OPTIKK AS, HYSPEX, NORWAY; 4: THE UNIVERSITY OF QUEENSLAND, SUSTAINABLE MINERALS INSTITUTE, AUSTRALIA</p>	<p><b>W4 G. South</b>  Location: <a href="#">BS G.26</a>  Chair: <b>Monika Kuffer</b>  Chair: <b>Dr. Stefanos Georganos</b></p> <p><b>Deep Learning-based Atmospheric Correction for Landsat 8 OLI in Tropical inland Water</b></p> <p><b>Dewinta Heriza<sup>1</sup>, Manh Van Nguyen<sup>2</sup>, Chao-Hung Lin<sup>1</sup></b>  1: National Cheng Kung University, Taiwan; 2: Hanoi National University of Education, Hanoi, Vietnam</p> <p><b>Mapping population in deprived urban areas using Earth Observation and Machine Learning</b></p> <p><b>Stefanos Georganos<sup>1</sup>, Sabine Vanhuyse<sup>2</sup>, Angela Abascal<sup>2</sup>, Jon Wang<sup>3</sup>, Monika Kuffer<sup>3</sup></b></p>

	<p><b>Mapping permafrost thawing induced landslides in the European Arctics</b>  <b>Ionut Sandric, Radu Irimia</b>  University of Bucharest, Faculty of Geography</p>	<p>1: Geomatics Unit, Department of Environmental and Life Sciences, Karlstad University, Sweden; 2: Department of Geosciences, Environment &amp; Society, Université libre De Bruxelles (ULB), 1050 Bruxelles, Belgium; 3: Faculty of Geo-Information Science &amp; Earth Observation (ITC), University of Twente, Enschede, The Netherlands</p>
	<p><b>Enhancing the Detection of Rare Earth Element Contents using Space-Borne Hyperspectral Data</b>  <b>Veronika Kopackova-Strnadova<sup>1</sup>, Johannes Giebel<sup>2</sup>, Vladislav Rapprich<sup>1</sup>, Tomas Magna<sup>1</sup></b>  1: Czech Geological Survey, Czech Republic; 2: TU Berlin, 10587 Berlin, Germany</p>	<p><b>Nighttime Lights Time Series Analysis Unveil Spatial Inequalities and Extractive Economic Dynamics along the Nacala Development Corridor in Lichinga, Mozambique</b>  <b>Ricardo Gellert Paris<sup>1</sup>, Andreas Rienow<sup>2</sup></b>  1: Ruhr-University Bochum, Institute of Geography, Institute of Development Research and Development Policy, Germany; 2: Ruhr-University Bochum, Institute of Geography, Interdisciplinary Geoinformation Science, Germany</p>
	<p><b>Integrating Remote Sensing Products and Advanced Methodological Models for Resilient Blue Economy: The OCEANIDS Approach</b>  <b>Eirini Marinou, Polychronis Kolokoussis, Christos Kontopoulos, Vasiliki Charalampopoulou</b>  Geosystems Hellas SA, Greece</p>	<p><b>Mapping And Modelling Land Values In African Cities With Machine Learning And Openly Accessible Data</b>  <b>Felix Agyemang<sup>1</sup>, Michael Osei Asibey<sup>2</sup>, Sean Fox<sup>3</sup></b>  1: University of Manchester, Department of Planning, Property and Environmental Management, United Kingdom; 2: Kwame Nkrumah University of Science and Technology; 3: University of Bristol</p>
	<p><b>Preserving Cultural Heritage Sites From Geohazards Using Remote Sensing Methods.</b>  <b>Aggeliki S. Kyriou, Konstantinos G. Nikolakopoulos</b>  University of Patras, Greece</p>	<p><b>Navigating Data Privacy and Utility by Integrating Multiple Imputation and Deep Learning: A Study on Linking Satellite Images with Anonymized Surveying</b>  <b>Mohammad Kakooei<sup>1</sup>, James Bailie<sup>2</sup>, Xiao-Li Meng<sup>2</sup>, Adel Daoud<sup>1,3</sup></b>  1: Chalmers university of technology, Göteborg, Sweden; 2: Harvard University, Cambridge, MA, USA; 3: Institute for Analytical Sociology (IAS), Linköping University, Linköping, Sweden</p>
<p><b>6:00pm</b> - <b>6:30pm</b></p>	<p><b>EARSel General Assembly (members only)</b>  Location: <b>BS G.26</b></p>	
<p><b>7:00pm</b> - <b>11:00pm</b></p>	<p><b>SD: Symposium dinner</b>  Location: <b>HOME Theatre, Cinema and Exhibition Centre</b></p>	



<p>8:00am - 10:00am</p>	<p><b>Reg 4: Registration</b> Location: <b>Business School of Manchester Metropolitan University</b></p>	
<p>9:00am - 9:30am</p>	<p><b>Keynote R. Santoleri</b> Location: <b>BS G.36</b></p>	
<p>9:30am - 11:00am</p>	<p><b>Education S1</b> Location: <b>BS G.35</b></p> <p><b>Monitoring Natural Phenomena from the Classroom with Edusat.</b> <b>Rosa Olivella, Josep Sitjar, Laura Olivas</b> University of Girona, Spain</p> <hr/> <p><b>Empowering Equality and Access to the Copernicus Space Programme - Insights, Challenges and Collaborative Strategies - a View from Women in Copernicus</b> <b>Alina - Mihaela Vizireanu<sup>1</sup>, Nathalie Stephenne<sup>2</sup>, Grazia Fiore<sup>3</sup>, Eleni Loulli<sup>4</sup></b> 1: Milton Keynes City Council, United Kingdom; 2: Service Public de Wallonie (SPW), Geomatic Department, Belgium; 3: Space Y, Permanent Representative, France; 4: Cyprus University of Technology, Cyprus</p> <hr/> <p><b>A Multi-Level Perspective on Developing Earth Observation Educational Content for Diverse Audiences</b> <b>Henryk Hodam, Andreas Rienow</b> Ruhr-Universität Bochum, Germany</p> <hr/> <p><b>Enhancing Learners' Involvement In Participatory Environmental Conservation</b> <b>Bartholomew Thiongo Kuria<sup>1</sup>, Wisdom Kipkemboi<sup>1</sup>, Simon Wachira Muthee<sup>1</sup>, Martin Wainaina Chege<sup>1</sup>, Johanna Anyesi Wanjala<sup>1</sup>, Andreas Rienow<sup>2</sup></b> 1: Dedan Kimathi University of Technology, Kenya; 2: Ruhr University Bochum</p> <hr/> <p><b>Capacity Development on digital Geomedia for UNESCO sites: Effectiveness and lasting effects of short-term training courses on Remote Sensing, GIS and mobile Geotools</b> <b>Kristina Hild<sup>1</sup>, Maike Petersen<sup>1</sup>, Alexander Siegmund<sup>1,2</sup></b> 1: Heidelberg University of Education, Department of Geography - Research Group for Earth Observation (rgeo), Germany; 2: Heidelberg University, Institute of Geography &amp; Heidelberg Center for the Environment (HCE), Germany</p>	<p><b>W1 Coastal</b> Location: <b>BS G.36</b> Chair: <b>Dr. Florinda Artuso</b> Chair: <b>Dr. Federico Angelini</b></p> <p><b>Forel-Ule Index As A Universal Indicator Of Optical Water Types And A Proxy for Water Quality: Application to Coastal Areas Around the World</b> <b>Lenka Fronkova<sup>1</sup>, Tiago Silva<sup>1</sup>, Naomi Greenwood<sup>1</sup>, Michelle Devlin<sup>1</sup>, Richard Heal<sup>1</sup>, Kate Collingridge<sup>1</sup>, Richard Harrod<sup>1</sup>, Michael Day<sup>1</sup>, William Procter<sup>1</sup>, Danja Hoehn-Adams<sup>1</sup>, Dave Sivyer<sup>1</sup>, Charlotte Reeve<sup>1</sup>, Tom Hull<sup>1</sup>, Roi Martinez<sup>1</sup>, Alakesh Samanta<sup>3</sup>, Pravakar Mishra<sup>2</sup>, Tune Usha<sup>2</sup></b> 1: Centre for Environment Fisheries and Aquaculture Science, United Kingdom; 2: National Centre for Coastal Research, India; 3: National Centre for Coastal Research, India</p> <hr/> <p><b>Validation of Satellite Hyperspectral Radiometric Measurements Based on Multispectral Data from the AERONET-OC Network: an Assessment of the Uncertainty Due to Spectral Mismatch</b> <b>Marco Talone<sup>1,2</sup>, Giuseppe Zibordi<sup>3</sup>, Jaime Pitarch<sup>4</sup></b> 1: Barcelona Expert Centre, Barcelona, Spain; 2: Instituto de Ciencias del Mar (ICM-CSIC), Barcelona, Spain; 3: Goddard Space Flight Center of the National Aeronautics and Space Administration, Greenbelt, MD 20771 USA; 4: Istituto di Scienze Marine (ISMAR-CNR), Rome, Italy</p> <hr/> <p><b>Pigments Distribution In The Mediterranean Sea Through Satellite Optical Radiometry</b> <b>Borja Sanchez<sup>1,2</sup>, Marco Talone<sup>1,2</sup>, Jesus Cerquides<sup>3</sup>, Annalisa Di Cicco<sup>4</sup>, Emanuele Organelli<sup>4</sup></b> 1: Barcelona Expert Center, Barcelona, Spain; 2: Institut de Ciències del Mar, ICM-CSIC, Barcelona, Spain; 3: Instituto de Investigación en Inteligencia Artificial, IIIA-CSIC, Barcelona, Spain; 4: Istituto di Scienze Marine, ISMAR-CNR, Rome, Italy</p> <hr/> <p><b>Phytoplankton Groups In The Baltic Sea From Ocean Colour Observations</b> <b>Annalisa Di Cicco<sup>1</sup>, Vittorio Ernesto Brando<sup>1</sup>, Elisabetta Canuti<sup>2</sup>, Joanna Stoń-Egiert<sup>3</sup>, Michela Sammartino<sup>1</sup>, Marco Picone<sup>4</sup>, Simone Colella<sup>1</sup>, Luis González Vilas<sup>1</sup></b> 1: National Research Council - Institute of Marine Sciences (CNR-ISMAR), Italy; 2: Joint Research Centre, European Commission (JRC-EC), Italy; 3: Institute of Oceanology, Polish Academy of Sciences (IOPAN), Poland; 4: Institute for Environmental Protection and Research (ISPRA), Italy</p> <hr/> <p><b>Continuous Evaluation of Uncertainties in HPLC-Based Phytoplankton Pigment Quantification in Support to Remote Sensing Validation: A Comprehensive Approach.</b> <b>Elisabetta Canuti<sup>1,2</sup>, Florinda Artuso<sup>3</sup>, Astrid Bracher<sup>4</sup>, Vanda Brotas<sup>5</sup>, Terese Buchaca<sup>6</sup>, Emmanuel Devred<sup>7</sup>, Annalisa Di Cicco<sup>8</sup>, Celine Dimier<sup>9</sup>, Vesna Flander Putrle<sup>10</sup>, Isabella Giardino<sup>3</sup>, Priscilla Goela<sup>11</sup>, Merete Grung<sup>12</sup>, Carlo Rafael Mendes<sup>13</sup>, Sandra Murawski<sup>4</sup>, Ilka Peeken<sup>4</sup>, Andrea Tracana<sup>4</sup>, Josephine Ras<sup>9</sup>, Rudiger Röttgers<sup>14</sup>, Crystal Thomas<sup>15</sup>, Sonja Wiegmann<sup>4</sup></b> 1: Joint Research Centre (European Commission), Italy; 2: University of Urbino, Urbino, Italy; 3: Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile, Frascati, Italy; 4: Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research,</p>

		<p>Bremerhaven, Germany; 5: University of Lisbon, Lisbon, Portugal; 6: Centre d'Estudis Avançats de Blanes – CEAB, CSIC, Girona, Spain; 7: Bedford Institute of Oceanography, Fisheries and Oceans, Dartmouth, Canada; 8: ISMAR - Consiglio Nazionale per le Ricerche, Italy; 9: Laboratoire d'Océanographie de Villefranche, IMEV-CNRS, Villefranche-sur-Mer, France; 10: National Institute of Biology, Piran, Slovenia; 11: S2AQUAcoLAB, Olhão, Portugal; 12: Norsk Institutt for Vannforskning, Norway; 13: Federal University of Rio Grande, Rio Grande, Brazil; 14: Helmholtz-Zentrum hereon GmbH, Germany; 15: NASA Earth Sciences Division, Goddard, USA</p> <hr/> <p><b>Experience of the Diagnostic and Metrology Laboratory of ENEA in Coastal Remote Sensing and the INSURE Project</b>  <b>Federico Angelini, Florinda Artuso, Francesco Colao, Luca Fiorani, Valeria Spizzichino, Antonio Palucci</b>  ENEA, Italy</p>
<p>11:00am - 11:30am</p>	<p><b>Coffee break Thu1</b>  Location: <a href="#">Business School of Manchester Metropolitan University</a></p>	<p><b>Thursday Poster Session</b>  Location: <a href="#">Business School North Atrium Foyer</a></p> <hr/> <p><b>Linking Biodiversity And Hyperspectral Bio-Optics From A Process-Based Sampling Strategy In Tidal Environments</b>  <b>Federico Falcini<sup>1</sup>, Jaime Pitarch<sup>1</sup>, Isa Schon<sup>2</sup>, Domenico D'Alenio<sup>3</sup>, Daniele Bellardini<sup>3</sup>, Pier Francesco Moretti<sup>4</sup>, Mario Sprovieri<sup>1</sup>, Patrick Roose<sup>2</sup></b>  1: Consiglio Nazionale delle Ricerche, Institute of Marine Sciences, Italy; 2: Royal Belgian Institute of Natural Sciences, Operational Directorate Natural Environments, Freshwater Biology, Belgium; 3: Stazione Zoologica Anton Dohrn, Department of Integrative Marine Ecology, Italy; 4: Consiglio Nazionale delle Ricerche, Department Of Earth System Sciences And Environmental Technologies, Italy</p> <hr/> <p><b>The Importance Of Tidal Variability On Ocean Color Remote Sensing Applications For Transitional Waters</b>  <b>Giulia Sent<sup>1</sup>, Carlos Manuel Antunes<sup>2</sup>, Evangelos Spyrakos<sup>3</sup>, Thomas Jackson<sup>4</sup>, Elizabeth C. Atwood<sup>5</sup>, Ana Cristina Brito<sup>1</sup></b>  1: Universidade de Lisboa, Faculdade de Ciências, MARE centre, Lisbon, Portugal; 2: Universidade de Lisboa, Faculdade de Ciências, Instituto Dom Luiz, Lisbon, Portugal; 3: University of Stirling, Faculty of Natural Sciences, Stirling, UK; 4: EUMETSAT, Darmstadt, Germany; 5: Plymouth Marine Laboratory, Plymouth, UK</p> <hr/> <p><b>Mapping Coastal Area Dynamics in Oristano Gulf (Italy) Using Satellite Images</b>  <b>Mariano Bresciani<sup>1</sup>, Monica Pinardi<sup>1</sup>, Salvatore Mangano<sup>1</sup>, Alice Fabbretto<sup>1</sup>, Claudia Giardino<sup>1</sup>, Andrea Satta<sup>2</sup>, Juan Montes Pérez<sup>3</sup>, Enrico Duo<sup>3</sup>, Paulo Cabrita<sup>3</sup>, Paolo Ciavola<sup>3</sup></b>  1: CNR - IREA Institute for Electromagnetic Sensing of the Environment, National Research Council, Milan, Italy; 2: CNR – IAS Institute for the Study of Anthropic Impact and Sustainability in Marine Environment, Oristano, Italy; 3: Department of Physics and Earth Sciences, University of Ferrara, Ferrara, Italy</p> <hr/> <p><b>EnsAD: Improving Coastal Algae Forecasts With EnMAP Hyperspectral Data</b>  <b>Eefke Marijn Van Der Lee<sup>1</sup>, Johannes Timm<sup>1</sup>, Annika Grage<sup>1</sup>, Karin Heyer<sup>1</sup>, Ina Lorkowski<sup>1</sup>, Thorger Brüning<sup>1</sup>, Dagmar Mueller<sup>2</sup>, Kerstin Stelzer<sup>2</sup>, Carsten Brockmann<sup>2</sup></b>  1: Federal Maritime and Hydrographic Agency, Germany; 2: Brockmann Consult GmbH, Germany</p> <hr/> <p><b>Monitoring the Impact of Climatological Changes on the Spatial Changes of the Aletsch Glacier</b>  <b>Andrija Krtalic<sup>1</sup>, Kristina Zeman Šteković<sup>2</sup>, Ana Kuveždić Divjak<sup>1</sup></b>  1: Faculty of Geodesy University of Zagreb, Croatia; 2: SOPRA PROJEKT LTD</p>

<p>11:30am - 1:00pm</p>	<p><b>Education S2</b> Location: <b>BS G.35</b></p> <p><b>The Earth-Moon System with Remote Sensing in Education – Implementing Lunar and Cis-Lunar Topics into the School Curriculum</b> <b>Roman Johannis Hiby</b>, Claudia Lindner, Andreas Rienow Ruhr-University Bochum, Germany</p> <hr/> <p><b>Learning transfer @ Copernicus Master in Digital Earth – Encoding a swift transition to the Workplace in Education</b> <b>Eva-Maria Steinbacher</b>, Stefan Lang, Barbara Schernthanner-Hofer PLUS University of Salzburg, Austria</p> <hr/> <p><b>Empowering Student Communities: Integrating Crowdsourcing, Remote Sensing, And Geoinformatics For Climate Change Mitigation</b> <b>Eleni Loulli<sup>1</sup></b>, Marianna Hadjichristodoulou<sup>1</sup>, Despina Makri<sup>1</sup>, Eleni Neofytou<sup>1</sup>, Dimitris Koumoulides<sup>1</sup>, Eleftherios Theodoropoulos<sup>2</sup>, Stavroula Sigourou<sup>2</sup>, Foteini Salta<sup>2</sup>, Charalampos Kontoes<sup>2</sup>, Christiana Papoutsas<sup>1</sup> 1: ERATOSTHENES Centre of Excellence, Cyprus; 2: BEYOND Center for EO Research and Satellite Remote Sensing, Institute for Astronomy, Astrophysics Space Applications and Remote Sensing (IAASARS), National Observatory of Athens (NOA), Greece</p> <hr/> <p><b>Time-Series-Analysis, Drone-Data, and EnMAP-Data in schools – Teachers Beliefs and Needs</b> <b>Johannes Keller<sup>1</sup></b>, Mario Blersch<sup>1</sup>, Christian Plass<sup>1</sup>, Alexander Siegmund<sup>1,2</sup> 1: DEPARTMENT OF GEOGRAPHY – RESEARCH GROUP FOR EARTH OBSERVATION (RGeo), HEIDELBERG UNIVERSITY OF EDUCATION, GERMANY; 2: HEIDELBERG CENTER FOR THE ENVIRONMENT (HCE) &amp; INSTITUTE OF GEOGRAPHY, HEIDELBERG UNIVERSITY, GERMANY</p> <hr/> <p><b>Copernicus Academy CZ Office - a Success Story of EO/Copernicus Capacity Building Activities</b> <b>Přemysl Štych</b>, Josef Laštovička, Jan Svoboda, Daniel Paluba, Jakub Jelen Charles University, Faculty of Science, Department of Applied Geoinformatics and Cartography, EO4Landscape team, Czech Republic</p>	<p><b>W2 Coastal</b> Location: <b>BS G.36</b> Chair: <b>Dr. Florinda Artuso</b> Chair: <b>Dr. Federico Angelini</b></p> <p><b>Phytoplankton Response To Marine Heatwaves Using Satellite Data</b> <b>Francesca Neri</b>, Angela Garzia, Tiziana Romagnoli, Stefano Accoroni, Francesco Memmola, Marika Ubaldi, Alessandro Coluccelli, Pierpaolo Falco, Cecilia Totti Università Politecnica delle Marche, Italy</p> <hr/> <p><b>Marine Heatwave in the Mediterranean: The 2022/2023 Event, Remote Sensing, and In-Situ Observations with a Focus on Lampedusa Island marine environment</b> <b>Salvatore Marullo<sup>1</sup></b>, Rosalia Santoleri<sup>1</sup>, Damiano Sferlazzo<sup>2</sup>, Alcide di Sarra<sup>2</sup>, Francesco Monteleone<sup>2</sup>, Daniela Meloni<sup>2</sup>, Mattia Pecci<sup>2</sup> 1: CNational Research Council of Italy (CNR), Institute of Marine Sciences (ISMAR), Rome, Italy; 2: ENEA - Laboratory for Observations and Measurements for Environment and Climate, Rome, Italy</p> <hr/> <p><b>Exploring Long-Term Trends and Anomalies in Coastal Sea Surface Temperature Using AVHRR Data</b> <b>Reiners Philipp<sup>1</sup></b>, Obrecht Laura<sup>2</sup>, Dietz Andreas<sup>1</sup>, <b>Stefanie Holzwarth<sup>1</sup></b>, Künzer Claudia<sup>1,2</sup> 1: German Aerospace Center (DLR), German Remote Sensing Data Center (DFD), Germany; 2: University of Würzburg, Institute of Geography and Geology, Germany</p> <hr/> <p><b>Satellite Detection And Analysis Of Hawksbill Turtle Habitats In The Gulf Of Honduras/Caribbean Sea</b> <b>Fiona Brurein<sup>1</sup></b>, Lauren Biermann<sup>2</sup>, Meret Huber<sup>1</sup>, Vanda Brotas<sup>3</sup> 1: University of Mainz; 2: University of Plymouth; 3: University of Lisbon</p> <hr/> <p><b>An Extended Analysis of Coastal Reclamation Areas through the Utilization of Remote Sensing Data and Landscape Metrics</b> <b>Busra Karagoz</b>, Nebiye Musaoğlu Istanbul Technical University, Turkiye</p> <hr/> <p><b>The Surface Water and Ocean Topography Mission in the Coastal Zone: 2D Altimetry for Mapping Intertidal Morphology Area and Change</b> <b>Ian Dougal Lichtman<sup>1</sup></b>, Paul Bell<sup>1</sup>, P. David Cotton<sup>2</sup>, Chris Banks<sup>1</sup>, Francisco J. M. Calafat<sup>1,3</sup>, Christine Gommenginger<sup>1</sup> 1: National Oceanography Centre, UK; 2: SatOC Ltd.; 3: University of the Balearic Islands, Spain</p>
<p>1:00pm - 1:30pm</p>	<p><b>Closing ceremony</b> Location: <b>BS G.36</b> Chair: <b>Dr. Elias Symeonakis</b> Chair: <b>Dr. Christina Karakizi</b> Closing ceremony 5-min talks from: - Local Organiser Dr Elias Symeonakis - EARSeL President Dr Jean-Christophe Schyns - Local Organiser of 44th EARSeL Symposium 2025</p>	
<p>1:30pm - 3:00pm</p>	<p><b>Lunch Thursday</b> Location: <b>Business School of Manchester Metropolitan University</b></p>	