Programme Agenda

Day 1 - 27/03/2018

Room: Magellan

Opening Session

Chairs: Arino, Olivier (ESA)

09:00 - 11:00

09:00 **Welcome Address**

Arino, Olivier, ESA

09:15 **Sentinel-1 Mission Status**

Potin, Pierre, ESA

09:30 **Sentinel-2 Mission Status**

Gascon, Ferran, ESA

09:45 **Sentinel-3 Mission Status**

Gascon, Ferran, ESA

10:00 **Detection of water bodies with multi-temporal Sentinel-1 SAR observations: examples from West Africa and Greenland**

Santoro, Maurizio (1); Cartus, Oliver (1); Wiesmann, Andreas (1); Wegmüller, Urs (1); Kellndorfer, Josef (2); Defourny, Pierre (3); Arino, Olivier (4), 1: Gamma Remote Sensing, Switzerland; 2: Earth Big Data LLC, USA; 3: Université Catholique de Louvain, Belgium; 4: ESA ESRIN, Italy

10:20 **Global water surface dynamics: toward a near real-time monitoring using Landsat and Sentinel data.**

Pekel, Jean-Francois (1); Belward, Alan (1); Gorelick, Noel (2); De Felice, Luca (1), 1: European Commission - JRC, Italy; 2: Google Earth Outreach

10:40 **Advancing the use of Earth Observations for the monitoring of water-relating ecosystems in the context of the Sustainable Development Goals**

Crane, Stuart; Campbell, Jillian; Bernhardt Elisabeth, Harlin, Joakim; Tchadie, Alain Michel; Midha, Nisha, UN Environment, Nairobi, Kenya

Global Products & Applications

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Chairs: Belward, Alan Steven (European Commission), Weise, Kathrin (Jena-Optronik GmbH)

11:20 - 13:00

11:20 **A Long-Term, Dynamical, High-Spatial Resolution Inundation Extent Dataset at Global Scale, from the Combination of Multiple Satellite Datasets**

Aires, Filipe (1,2); Prigent, Catherine (1,2); Lehner, Bernhard (3); Yamazaki, Dai (4); Fluet-Chouinard, Etienne (5); Pekel, Jean-Francois (6); Bousquet, Philippe (7); Jimenez, Carlos (2), 1: LERMA, France; 2: Estellus, France; 3: McGill University; 4: Univ. of Tokyo, Japan; 5: University of Wisconsin-Madison, USA; 6: Europe Commission – Joint Research Centre; 7: LSCE/CEA, France

11:40 **Service cases and service lines of SWOS (Satellite based Wetland Observation Service) for wetland monitoring from local to global level**

Weise, Kathrin (1); Hoefer, Rene (1); Schwarz, Michael (1); van Valkengoed, Eric (2); Franke, Jonas (3); Thulin, Susanne (4); Eberle, Jonas (5); Truckenbrodt, John (5); Zander, Franziska (5); Abdul Malak, Dania (6); Sanchez, Antonia (6); Schroeder, Christoph (6); Strauch, Adrian (7); Muro, Javier (7); Firoka, Eleni (8); Guelmami, Anis (9); Mino, Eric (10); Flink, Stephan (11); Hilarides, Lammert (11); Plasmeijer, Anouska (12); Ling, Matthew (13); o'Conner, Brian (13), 1: Jena-Optronik GmbH, Germany; 2: TerraSphere BV, Netherlands; 3: RSS - Remote Sensing Solutions GmbH, Germany; 4: Brockmann Geomatics Sweden AB, Sweden; 5: Friedrich Schiller University of Jena , Germany; 6: University of Malaga, Spain; 7: University of Bonn, Germany; 8: Greek Biotope Wetland Centre (EKBY), Greece; 9: Mediterranean Wetlands Observatory Tour du Valat , France; 10: SEMIDE / EMWIS, France; 11: Wetlands International, Netherlands; 12: European Regional Office IUCN (International Union for Conservation of Nature), Belgium; 13: UN Environment World Conservation Monitoring Centre UNEP-WCMC, Great Britain

12:00 **A surface water body dataset with daily temporal resolution – Selected examples and application potential of the Global WaterPack**

Klein, Igor; Gessner, Ursula; Hirner, Andreas; Dietz, Andreas; Dech, Stefan; Kuenzer, Claudia, DLR-DFD, Germany

12:20 **Taking advantage of ESA's Grid Processing On Demand to generate a European flood record based on 10 years of ENVISAT ASAR imagery**

Matgen, Patrick (1); Chini, Marco (1); Hostache, Renaud (1); Pelich, Ramona (1); Zhao, Jie (1); Delgado, José Manuel (2,3); Sabatino, Giovanni (2,3), 1: Luxembourg Institute of Science and Technology; 2: Progressive Systems Srl; 3: ESA Research and Service Support

12:40 **Industrial Mapping Of Water Bodies And Wetlands Using Algorithms Of Big Data Analytics In A Cloud-Based DIAS Environment**

Programme Agenda

Lorenzo, Alberto (1); Vaitkus, Gediminas (2), 1: Indra Sistemas SA; 2: GEOMATRIX UAB

National & Regional Applications (I)

Chairs: Hoffmann, Christian (GeoVille GmbH), Santoro, Maurizio (Gamma Remote Sensing)

14:20 - 16:00

14:20 **Using the Sentinels for Maintaining and Updating Topographic Map Features: The Case of Lakes in the Danish Natural Environment Portal**

Tottrup, Christian; Rasmussen, Mikkel; Nyborg, Lotte, DHI GRAS, Denmark

14:40 **Potentials of the Copernicus Program for Detection and Monitoring of Tropical Wetlands. Examples from Rwanda.**

Hentze, Konrad (1); Strauch, Adrian (1); Franke, Jonas (2); Thonfeld, Frank (1); Muro, Javier (1); Steinbach, Stefanie (1), 1: University of Bonn, Germany; 2: Remote Sensing Solutions GmbH, Germany

15:00 **Development of a 16-year Surface Water Fraction Dataset from MODIS Data for the Mediterranean**

Li, Linlin (1); Vrieling, Anton (1); Skidmore, Andrew (1,2); Wang, Tiejun (1), 1: ITC, University of Twente, The Netherlands; 2: School of Environmental Sciences, Macquarie University, Australia

15:20 **Water storage variations in densely impounded catchments in NE Brazil from 2009 -2016 using TanDEM-X and RapidEye satellite data**

Zhang, Shuping (1,2); Foerster, Saskia (1); Delgado, José Miguel (3); Schuettig, Martin (3); Medeiros, Pedro (4); de Araújo, José Carlos (5); Waske, Bjoern (2), 1: GFZ Potsdam, Germany; 2: Free University of Berlin (FU Berlin), Berlin, Germany; 3: University of Potsdam; 4: Federal Institute of Education, Science and Technology of Ceará (IFCE), Maracanaú, Brazil; 5: Federal University of Ceará (UFC), Fortaleza,Brazil

15:40 **Large Scale Water and Wetness Detection using a Multi-Sensor and Multi-Temporal Approach**

Riffler, Michael; Moran, Andrew; Dullek, Björn; Schleicher, Christian; Walli, Andreas; Weichselbaum, Jürgen, GeoVille Information Systems and Data Processing GmbH, Austria

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Room: Big Hall

Poster Session & Welcome Drink

16:00 - 18:00

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From Simulations to Reality – Sentinel-2A for retrieving Water Constituents and Benthos in Lakes

Dörnhöfer, Katja; Oppelt, Natascha, Kiel University, Germany

Mapping Biomass Of Macroalgae In The Mar Piccolo Of Taranto (Southern Italy, Mediterranean Sea) By Means Of High Resolution Satellite Remote Sensing

Micheli, Carla (1); Cecere, Ester (2); Cibic, Tamara (3); De Cecco, Luigi (1); Petrocelli, Antonella (2); Pignatelli, Vito (1); Portacci, Giuseppe (2); Rubino, Fernando (2); Borfecchia, Flavio (1), 1: ENEA, Italian National Agency for New technologies, Energies and Sustainable Economic Environment. Research Centre Casaccia 2400/00123 Roma, Italy.; 2: Consiglio Nazionale delle Ricerche (CNR), Istituto per l'Ambiente Marino Costiero IAMC, 74123 Taranto, Italy; 3: OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale), Sezione Oceanografia, Via A. Piccard 54, 34151 Trieste, Italy.

Testing A Flood Mask Correction Method Of Optical Satellite Imagery Over Irrigated Agricultural Areas

Michail, Emmanouil (1); Moumtzidou, Anastasia (1); Gialampoukidis, Ilias (1); Avgerinakis, Konstantinos (1); Scarpino, Maria Gabriella (2); Vrochidis, Stefanos (1); Vingione, Guido (2); Kompatsiaris, Ioannis (1); Labbassi, Kamal (3); Menenti, Massimo (4); Elghandour, Fatima-ezzahra (3), 1: Centre for Research and Technology Hellas - Information Technologies Institute, Greece; 2: Serco SpA, Italy; 3: Chouaib Doukkali University, Morocco; 4: Technical University Delft, Netherlands

New perspectives for Sentinel-2 to support Arctic research

König, Marcel; Oppelt, Natascha, Kiel University, Germany

Mapping Phytoplankton Abundance and Diatom Fraction in the Chesapeake Bay

Zheng, Guangming (1,2); DiGiacomo, Paul M (1), 1: NOAA, United States of America; 2: GST, Inc.

The Use of Research and User Support for Sentinel Core Products (RUS) for Artic Lake Ice Monitoring

Šmejkalová, Tereza (1); Castro Goméz, Miguel (1); Palazzo, Francesco (1); Remondiere, Sylvie (1); Guzzonato, Eric (2); Mora, Brice (2); Jeansou, Eric (3); Soleilhavoup, Isabelle (3); Fabry, Pierre (4), 1: Serco SPA, Italy; 2: CS, France; 3: Noveltis, France; 4: A-T, France

Mapping the Seagrass and coastal Habitats of Mediterranean Islands using the new HR satellite Multispectral sensors

Borfecchia, Flavio (1); Micheli, Carla (1); De Cecco, Luigi (1); Sannino, Gianmaria (1); Struglia, Maria Vittoria (1); Di Sarra,

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Alcide Giorgio (1); Gomez, Carlo (3); Mattiazzo, Giuliana (2), 1: ENEA,Italian National Agency for New Technology, Energy and Sustainable Economic Development, Italy; 2: Polytechnic University of Turin, Mechanical Engineering Dep. Turin Italy; 3: Cantieri Navali Esposito S.n.c, Pantelleria-Italy

Pan-sharpening Methods Applied on Sentinel-2 Imagery for Mapping Inland Water Bodies

Ronchetti, Giulia; Sona, Giovanna, DICA (Department of Civil and Environmental Engineering), Politecnico di Milano, Italy

Orbital Grain Size Mapping From Sentinel 2 Images

Marchetti, Giulia (1); Bizzi, Simone (1); Belletti, Barbara (1); Carbonneau, Patrice (2); Castelletti, Andrea (1), 1: Politecnico di Milano, Italy; 2: Durham University, UK

Environmental Monitoring of the Wetlands in the network RAMSAR using techniques of Observation of the Earth with Sentinel 2

García Fernández, Miguel Angel (1,2); Perez Gonzalez, Maria Eugenia (1), 1: Complutense University of Madrid, Spain; 2: Carlos III University of Madrid, Spain

Implementing Different Methodologies for the Delineation of Mediterranean Wetlands

Morant, Daniel; Doa, Carolina; Picazo, Antonio; Ferriol, Carmen; Santamans, Anna C.; Rochera, Carlos; Camacho, Antonio, Cavanilles Institute of Biodiversity and Evolutionary Biology, University of Valencia, Spain

Estimation of water coverage in lenitic systems by combining remote sensing and genetic programing. Application to lakes in the Mediterranean basin of the Iberian Peninsula.

Doa, Carolina (1); Morant, Daniel (1); García Picazo, Ana (1); Sánchez, Juan M. (2); Camacho, Antonio (1), 1: Cavanilles Institute of Biodiversity and Evolutionary Biology, University of Valencia, E-46980 Paterna, Valencia, Spain.; 2: Department of Applied Physics, Regional Development Institute, University of Castilla-La Mancha, Campus Universitario S/N, 02017 Albacete, Spain.

SAR Based Mapping of Flooded Areas for the Validation of Short-term Flood Forecasting

Ponomarenko, Maria; Pimanov, Ilya, St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences (SPIIRAS), Russian Federation

Medium Sized Rivers Wet Channel Probabilistic Mapping from Short Time Sentinel-1 Data Stack

Asaro, Francesco (1); Prati, Claudio Maria (1); Belletti, Barbara (1); Bizzi, Simone (1); Carbonneau, Patrice (2), 1: Department of Electronics, Information and Bioengineering, Politecnico di Milano, Italy; 2: Department of Geography, Durham University

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Spatial and Temporal Variability of Optical Water Types in Largest Latvian and Estonian Lakes in 2017

Soomets, Tuuli (1); Jakovels, Dainis (1); Uudeberg, Kristi (2), 1: Institute for Environmental Solutions, Latvia; 2: Tartu Observatory, Estonia

An Image Classification and Geoprocessing Workflow to Facilitate Network Analysis of Multichannel Rivers

Connor-Streich, Gabriel; Henshaw, Alex; Harvey, Gemma, Queen Mary College, University of London, United Kingdom

Comparison of Sentinel Water Mask and other indices for water mapping on Sentinel-2 images

Robak, Anna; Milczarek, Marta; Gadawska, Alicja, Space Research Centre Polish Academy of Science, Poland

Mapping suspended particulate matter in West African water bodies with Sentinel2

Grippa, Manuela (1); Robert, Elodie (1); Martinez, Jean-Michel (1); Gosset, Cindy (1); Pinet, Sylvain (1); Soumaguel, Nogmana (2); Touré, Amadou Abdourahamane (3); Kergoat, Laurent (1), 1: Géosciences Environnement Toulouse (GET), France; 2: Institut de recherche pour le développement (IRD), Bamako, Mali; 3: Université Abdou Moumouni (UAM) de Niamey , Niger

Sahelian ponds and lakes seen by SWOT

Grippa, Manuela (1); Rouzies, Cyprien (1); Biancamaria, Sylvain (2); Blumstein, Denis (2); Gal, Laetitia (3); Gosset, Marielle (1); Kergoat, Laurent (1), 1: Géosciences Environnement Toulouse (GET), France; 2: Laboratoire d'études en géophysique et océanographie spatiales (LEGOS); 3: Laboratoire d'étude des Interactions entre Sol-Agrosystme-Hydrosystme (LISAH)

Quantifying Distributed Water Availability in Small Dams in the State of Ceará, Brazil

Delgado, José Miguel (1); Zhang, Shuping (2); Schuettig, Martin (1); Foerster, Saskia (2), 1: University of Potsdam, Germany; 2: GFZ German Research Centre for Geosciences

A 10-day Mean Surface Water Extent at Global Scale at 0.25°x0.25° Spatial Resolution, from 1993 to Present: the Global Inundation Extent from Multi-Satellites 2.0 (GIEMS 2.0)

Jimenez, Carlos (1,2); Prigent, Catherine (2,1,3); Aires, Filipe (2,1,3), 1: Estellus, France; 2: LERMA, Observatoire de Paris, France; 3: Department of Earth & Environment Engineering, Columbia University, USA

SAR based change detection for mapping changes in water table levels

Muro, Javier (1); Strauch, Adrian (1); Thonfeld, Frank (1,2), 1: Center for Remote Sensing of and Surfaces, Germany; 2: Remote sensing Research Group

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Rheticus® Marine: Sentinel and Copernicus data for operative and continuous monitoring of coastal waters and resources

Ceriola, Giulio; Drimaco, Daniela, Planetek Italia s.r.l., Italy

Estimation of Wind Speed over Lakes with Sentinel-1 – Limitations and Application Potential

Katona, Timea (1); Bartsch, Annett (2,3), 1: TU Wien, Austria; 2: b.geos, Korneuburg, Austria; 3: Zentralanstalt für Meteorologie und Geodynamik, Austria

GlobWetland Africa: Implementing Sustainable Earth Observation Based Wetland Monitoring Capacity in Africa and Beyond

Tottrup, Christian (1); Riffler, Michael (2); Sun, Yiwen (3); Stelzer, Kerstin (4); Kittel, Cecile (5); Wang, Tiejun (3); Grogan, Kenneth (1); Ludwig, Christina (2); Bauer-Gottwein, Peter (5); Blüthgen Slvsteen, Jonas (1); Wevers, Jan (4); Odermatt, Daniel (6); Skidmore, Andrew (3); Verkedy, Zoltan (3); Walli, Andreas (2); Ouedraogo, Paul (7); Paganini, Marc (8), 1: DHI GRAS, Denmark; 2: GeoVille, Austria; 3: ITC, University of Twente, The Netherlands; 4: Brockmann Consult GmbH, Germany; 5: DTU Environment, Denmark; 6: Odermatt & Brockmann GmbH, Switzerland; 7: Ramsar, Switzerland; 8: European Space Agency, ESRIN, Italy

Monitoring of water bodies areas and soil moisture content in risky areas of Bulgaria

Nikolov, Hristo Stoianov (1); Atanasova, Mila Stoyanova (2); Shishkov, Toma (3), 1: Space research and technology institute - BAS, Bulgaria; 2: National Institute of Geophysics, Geodesy and Geography - BAS, Bulgaria; 3: NIKOLA PUSHKAROV" INSTITUTE OF SOIL SCIENCE AND AGROECOLOGY

Operational Monitoring of Water Bodies Areas as Precursor for Landslides Activities

Nikolov, Hristo Stoianov (1); Atanasova, Mila Stoyanova (2), 1: Space research and technology institute - BAS, Bulgaria; 2: National Institute of Geophysics, Geodesy and Geography - BAS, Bulgaria

Database for Hydrological Time Series of Inland Waters (DAHITI)

Schwatke, Christian; Dettmering, Denise, DGFI-TUM, Germany

SURF-WATER : A High-Resolution and Near Real Time Monitoring of Surface Water Extent using a Multi-Sensor & Multi-Temporal Approach

Pea Luque, Santiago (1); Pedinotti, Vanessa (2); Hagolle, Olivier (3); Andral, Alice (1), 1: CNES, 18 avenue Edouard Belin , SI/2A Team, 31401 Toulouse cedex 9, France; 2: Magellium, 24 Rue Herms, 31520 Ramonville Saint-Agne, Toulouse; 3: CESBIO, 18 avenue Edouard Belin ,31401 Toulouse cedex 9, France

Mapping of water permanence and fluctuations for updating the Ramsar Information Sheets using optical and radar data: A case study for two Greek Ramsar Sites and their

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catchments.

Fitoka, Eleni (1); Apostolakis, Antonis (1); Truckenbrodt, John (2); Tompoulidou, Maria (1), 1: Greek Biotope Wetland Centre, Greece; 2: Friedrich-Schiller-University Jena Institute of Geography Department for Earth Observation

Development of a Concept for Correcting Artifacts in Sunglint Originating from the Sentinel 2 Acquisition Mode.

Riedel, Sebastian (1,2); Gege, Peter (2); Oppelt, Natascha (1), 1: Kiel University; 2: German Aerospace Center (DLR)

Monitoring of Climate Change Effects on Water Surface Temperature of the Bracciano Lake

De Santis, Davide; Del Frate, Fabio, University of Rome "Tor Vergata", Italy

The influence of the incidence angle over the backscattering values for SAR-based flood mapping

Zhao, Jie (1,2); Chini, Marco (1); Pelich, Ramona (1); Hostache, Renaud (1); Matgen, Patrick (1); Wagner, Wolfgang (2), 1: Luxembourg Institute of Science and Technology, Luxembourg; 2: Technische Universität Wien

Comparing Existing Lake Databases in the SWOT Context

Cazals, Cécile (1); Pottier, Claire (2); Yésou, Hervé (3), 1: C-S, 5 rue Brindejonc des Moulinais, 31500 Toulouse; 2: CNES, 18 avenue Edouard Belin, 31400 Toulouse; 3: ICube - SERTIT, 300 Bd Sébastien Brant, 67412 Illkirch-Graffenstaden, France

Mapping Submerged Aquatic Vegetation by Using a Sentinel-2A Time Series at Lake Starnberg (Germany)

Fritz, Christine (1); Schneider, Thomas (1); Dörnhöfer, Katja (2); Oppelt, Natascha (2), 1: TU München, Germany; 2: CAU Kiel

Sentinel-2 and MODIS Land Surface Temperature Based Evapotranspiration for Computing Irrigation Efficiency

Kyalo, Daniel Kiluu (1); Zoltan, Vekerdy (2); Velde, Rogier van der (2); Odongo, Vincent Omondi (3,4), 1: Machakos county, Kenya; 2: University of Twente, ITC; 3: Egerton University, Kenya; 4: Wageningen University

Global Lake Water Products within the Copernicus Global Land Service

Stelzer, Kerstin (1); Simis, Stefan (2); Brockmann, Carsten (1); Carrera, Laura (3); Steinmetz, Francois (4), 1: Brockmann Consult GmbH, Germany; 2: PML, UK; 3: University of Reading; 4: HYGEOS

Glacial Lake Dynamics of Eastern and Western Himalaya: possible signature of climatic variability over the region

Goswami, Ajanta, IIT ROORKEE, India

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Copernicus Downstream Services for the Mapping of Water Bodies in Europe: the Eugenius Approach

Tholey, Nadine; Studer, Mathias; Maxant, Jérôme; Caspard, Mathilde; Yésou, Hervé; de Fraipont, Paul, ICube / SERTIT, Université de Strasbourg, 300 bd Sébastien Brant, CS 10413, 67412 Illkirch Cedex, France

The Sentinels in Support of Water Transfer Mapping on Wetlands and Meadows

Mleczko, Magdalena (1); Mróz, Marek (1); Fitrzyk, Magdalena (2), 1: Institute of Geodesy; Faculty of Geodesy, Geospatial and Civil Engineering; University of Warmia and Mazury in Olsztyn; Poland; 2: RSAC c/o ESA-ESRIN; Frascati, Italy

Mapping of small water bodies in the Cape Winelands region of South Africa using Sentinel 1 and 2

Bangira, Tsitsi (1,2); van Niekerk, Adriaan (2); Iannini, Lorenzo (1); Menenti, Massimo (1,3); Vekerdy, Zoltán (4,5), 1: Delft University of Technology, Department of Geoscience and Remote Sensing, P.O. Box 5048, 2600 GA Delft, The Netherlands; 2: Stellenbosch University, Department of Geography and Environmental Studies, Private Bag X1, Matieland, 7602, South Africa; 3: State Key Laboratory of Remote Sensing Science, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, Beijing 100101, China; 4: University of Twente, Faculty of Geo-Information Science and Earth Observation (ITC), PO Box 217, 7500 AE, Enschede, The Netherlands; 5: Szent István University, Department of Water Management, Páter Károly u. 1., 2100 Gödöllõ, Hungary

Day 2 - 28/03/2018

Room: Magellan

National & Regional Applications (II)

Chairs: Massart, Michel (DG GROW), Zhang, Shuping (GFZ Potsdam)

09:00 - 10:40

09:00 **Mapping of River Bodies and Ice Cover with Sentinel-1**

Weintrit, Beata; Kubicki, Micha³, Astri Polska Sp. z o.o., Poland

09:20 **Mapping Small Reservoirs in Semiarid Environment Using Multitemporal Synthetic Aperture Radar Data**

Amitrano, Donato (1); Di Martino, Gerardo (1); Iodice, Antonio (1); Mitidieri, Francesco (2); Papa, Maria Nicolina (2); Riccio, Daniele (1); Ruello, Giuseppe (1), 1: University of Napoli Federico II, Napoli, Italy; 2: University of Salerno, Fisciano, Italy

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09:40 **Remote Sensing Estimation and Analysis of Lake Water Storage in Tibetan Plateau**

Lu, Shanlong, Institute of Remote Sensing and Digital Earth, CAS, People's Republic of China

10:00 **Mapping Sea Surface Dynamics In The Context Of Displaced Persons - The Case Of Rohingya Refugees In Bangladesh**

Braun, Andreas; Hochschild, Volker, University of Tübingen, Germany

10:20 **Surface Water Detection from Long Term Time Series of Earth Observation Data**

Roberts, Dale (2); Mueller, Norman (1); Siquera, Andreia (1), 1: Geoscience Australia, Australia; 2: Australian National University

Methods of Water Body Mapping (I)

Chairs: Nyenhuis, Michael (DLR Space Administration), Vekerdy, ZoltÃ¡n (ITC Faculty of University of Twente)

11:10 - 12:50

11:10 **Inundation mapping with the L-band radiometer for carbon studies and flood mapping**

Kim, Seungbum, NASA Jet Propulsion Lab, United States of America

11:30 **Automatic Water Mapping Algorithm using Sentinel-1 Data within the ESA Hydrology Thematic Exploitation Platform**

Garcia Robles, Javier (1); Blanco, Pablo (1); Balagué, Xavier (1); Gili, Albert (1); Koudogbo, Fifame (1); Novali, Fabrizio (2), 1: TRE Altamira, Spain; 2: TRE Altamira, Milano

11:50 **Synergies of Landsat, Sentinel-2, and -1 for improved characterization of surface water dynamics**

Huang, Chengquan (1); DeVries, Ben (1); Huang, Wenli (1); Lang, Megan W. (2); Jones, John W. (3); Creed, Irena F. (4); Carroll, Mark L. (5,6), 1: University of Maryland, United States of America; 2: US Fish and Wildlife Service, National Wetlands Inventory, USA; 3: US Geological Survey, USA; 4: University of Saskatchewan, Canada; 5: NASA Goddard Space Flight Center, USA; 6: Science Systems and Applications Inc., USA

12:10 **Water Body Mapping and Monitoring in Arid Wetlands Based on Optical Satellite Imagery. A Case Study of the Lower Volga**

Kozlova, Maria Vladimirovna (1); Baig, Muhammad Hasan Ali (2); Kozlov, Alexander Vladimirovich (3), 1: State Oceanographic Institute, Russian Federation; 2: Institute of Geo-Information & Earth-Observation (IGEO), Arid Agriculture University Rawalpindi, Pakistan; 3: Lomonosov Moscow State University, Faculty of Mechanics and Mathematics, Russian Federation

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12:30 **Hyper-temporal Water Body Dynamics Mapping Using Sentinel-1 Time Series Clustering**

Truckenbrodt, John (1); Schmullius, Christiane (1); Weise, Kathrin (2), 1: Friedrich-Schiller-University, Jena, Germany; 2: Jena-Optronik GmbH, Jena, Germany

Methods of Water Body Mapping (II)

Chairs: Bartsch, Annett (b.geos), Mangin, Antoine (ACRI)

14:00 - 15:20

14:00 **Lake monitoring in Siberia with Sentinel-1 and 2 data**

Bartsch, Annett (1,2); Pointner, Georg (1); Widhalm, Barbara (2), 1: b.geos, Korneuburg, Austria; 2: Zentralanstalt für Meteorologie und Geodynamik, Vienna, Austria

14:20 **Automated Extraction of Time-Variable Water Surfaces based on Google Earth Engine**

Schwatke, Christian; Scherer, Daniel, DGFI-TUM, Germany

14:40 **Mapping temporary excess water ponding on agricultural fields with Sentinel-1 & 2**

Vekerdy, Zoltán (1,2); Qiu, Yun (1); van Lieshout, Arno (1); Czakó-Gál, Edina (2), 1: ITC Faculty of University of Twente, the Netherlands; 2: Faculty of Agricultural and Environmental Sciences, Szent István University, Hungary

15:00 **Dynamic Water Surface Detection Algorithm Applied on PROBA-V Multispectral Data**

Bertels, Luc; Van De Kerchove, Ruben; Reusen, Ils; Smets, Bruno; Wolfs, Davy, VITO, Belgium

Wrap-up and Conclusions by Session Chairs

Chairs: Arino, Olivier (ESA)

15:20 - 16:10

15:20 **Conclusions**

Chairs, All, .