

Living Planet Symposium 2019

		Sessions										
		Brown 1	Brown 2	Brown 3	Amber 1-2	Amber 3-4	Amber 5-6	Amber 7-8	Space 1	Space 2	Space 3	Space 4
Monday 13 May	09:00	Plenary										
	11:50											
	13:30	10 Years of SMOS in Orbit - from Technology Demonstrator to Operational Applications	High Resolution Soil Moisture and Perspective Applications	Earth Explorer 8 FLEX	Sentinel-5 Precursor Mission Status and Cal/Val activities	Altimetry of the cryosphere and polar oceans	Geodetic Satellite Missions and their Applications	Heritage Missions and Long Time Data Series	EO for Terrestrial Biodiversity	New Atmospheric Radar Concepts and Application	International Cooperation in Earth Observation	Marine Wind and Wave
	15:30 15:40	Meteorological Satellites: Current and Future Satellites and Instruments	High Resolution Soil Moisture and Perspective Applications	Remote Sensing of Fluorescence	Sentinel-5 Precursor Mission Status and Cal/Val activities	Altimetry of the cryosphere and polar oceans	Geodetic Satellite Missions and their Applications	The Heritage of the Advanced Very High Resolution Radiometer (AVHRR): Celebrating the 40-year Legacy of Land Observations	EO for Terrestrial Biodiversity	Space 4.0 for Secure Societies	National Missions	Marine Wind and Wave
17:20	Welcome cocktail and Posters											
19:00												
Tuesday 14 May	08:30	Space-based Sea Surface Salinity	Water Level, Storage, River Discharge and Floods from Remote Sensing and Assimilation in Hydrodynamic Models	PRISMA – The Hyperspectral Italian Mission	Tropospheric Composition and Air Quality	Monitoring Polar Regions by using Microwave Radiometry	Our Solid Earth: from Core to Surface	EO for the Sustainable Development Goals	Remote Sensing for Ecosystem Modelling: Scalability of Plant Traits, Essential Biodiversity Variables and Ecosystem Functional Properties from the Leaf to the Ecosystem Level	GEOGLAM - from R&D to Operational Agricultural Monitoring	International Coordination for future SAR missions	The Copernicus Sentinel-6/Jason-CS Mission
	10:10	Space-based Sea Surface Salinity	Water Level, Storage, River Discharge and Floods from Remote Sensing and Assimilation in Hydrodynamic Models	Advances on Hyperspectral Imaging and Processing	Tropospheric Composition and Air Quality	Retrievals of Sea Ice Properties and Processes	Our Solid Earth: from Core to Surface	EO for the Sustainable Development Goals	Remote Sensing for Ecosystem Modelling: Scalability of Plant Traits, Essential Biodiversity Variables and Ecosystem Functional Properties from the Leaf to the Ecosystem Level	GEOGLAM - from R&D to Operational Agricultural Monitoring	International Coordination for future SAR missions	Uncovering Upper Ocean Dynamics: Ocean Surface Currents and Rapidly Evolving Processes using Multi-Mission EO Synergy
	12:20											
	13:30	Current and Potential Multisensor Approaches to Marine Litter Detection	The Earth Explorer 9 FORUM and SKIM Missions	Land Surface Global Monitoring from PROBA-V to Sentinel-3	Tropospheric Composition and Air Quality	Retrievals of Sea Ice Properties and Processes	Our Solid Earth: from Core to Surface	EO for the Sustainable Development Goals	Remote Sensing for Ecosystem Modelling: Scalability of Plant Traits, Essential Biodiversity Variables and Ecosystem Functional Properties from the Leaf to the Ecosystem Level	From Agriculture Mapping to Monitoring	Observations for supporting the UNFCCC Paris Agreement	Ocean General Circulation and Climate
	15:10 15:40	Detecting Targets at Sea with Sentinel-1	Satellite Soil Moisture and Precipitation for Predicting Extreme Hydrological Events	Earth Observation for Soils	Atmospheric Research in the Stratosphere and Mesosphere	Retrievals of Sea Ice Properties and Processes	Swarm - ESA's Extremely Versatile Magnetic Field and Geospace Explorer	The ESA-NASA Joint Program Planning Group	The Sentinel-3A and Sentinel-3B Tandem Phase: First Results	From Agriculture Mapping to Monitoring	Observations for supporting the UNFCCC Paris Agreement	Ocean General Circulation and Climate
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Wednesday 15 May	08:30	Ground & Space Sensors for Monitoring Resilience of Forest Canopy Structure & Forest Functioning	Earth's Radiation Budget and Temperature: Critical Variables for Monitoring Climate Change	EO End-User Toolboxes and Apps	Greenhouse Gases	Ice-Sheet-Wide Remote Sensing in Antarctica and Greenland	Space Weather	Open and Standard-Based Approaches to Big EO Data Architecture	Sentinels for Geology and Geomorphology	From Agriculture Mapping to Monitoring	Earth Explorer 10 Mission Candidates	Monitoring the Coastal Zone from Space: from Land/Sea/Air Interactions to Trends and Extremes
	10:10	Ground & Space Sensors for Monitoring Resilience of Forest Canopy Structure & Forest Functioning	Advances in Remote Sensing of Energy Budget in the Changing Climate and Environment	EO Education	Greenhouse Gases	Ice-Sheet-Wide Remote Sensing in Antarctica and Greenland	Geospace System Science: Thermosphere, Ionosphere, Magnetosphere and their Coupling	Big EO Data Analytics: Platforms and Applications	Design and Monitoring of Transport, Energy and Utility Infrastructure with Copernicus Data	From Agriculture Mapping to Monitoring	Copernicus Programme Present and Future	Monitoring the Coastal Zone from Space: from Land/Sea/Air Interactions to Trends and Extremes
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	13:30	SAR Tomography of Natural Media: Current State-of-the Art and Perspectives for Future Applications	Exploiting Current Capability to Improve Land Surface Temperature Science	Combining Satellite and Citizen Observations to Improve Environmental Monitoring	Aerosols and Clouds	Glaciers and ice caps in a warming world: Improved understanding of changes from recent satellite data	Geospace System Science: Thermosphere, Ionosphere, Magnetosphere and their Coupling	Big EO Data Analytics: Platforms and Applications	Disaster Risk Reduction for Developing Countries	From Agriculture Mapping to Monitoring	Expanding Copernicus: High Priority Candidate Missions to Address Copernicus User Needs	Monitoring the Coastal Zone from Space: from Land/Sea/Air Interactions to Trends and Extremes
	15:10	Multi-frequency SAR Exploitation Synergy	Exploiting Current Capability to Improve Land Surface Temperature Science	Open Science: Collaboration for Open Research	Aerosols and Clouds	Glaciers and ice caps in a warming world: Improved understanding of changes from recent satellite data	Land-Climate Interactions	Big EO Data Analytics: Platforms and Applications	Disaster Risk Reduction for Developing Countries	From Agriculture Mapping to Monitoring	Expanding Copernicus: High Priority Candidate Missions to Address Copernicus User Needs	Monitoring the Coastal Zone from Space: from Land/Sea/Air Interactions to Trends and Extremes
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Thursday 16 May	08:30	Globalisation and commercialisation of Earth Observation Services - Current Capabilities and Future Potential	Sensing our Earth from the air: a new perspective on ESA campaigns	Concerted Actions for Global Forest Biomass Monitoring	EarthCARE	Multi-Sensor Monitoring of the Arctic and Southern Oceans	Novel In-Situ Collection Approaches for Agricultural EO Applications	Challenges and Opportunities for Deep Learning in Remote Sensing: Understanding the World through Earth Observation	Monitoring Impacts of Climate Change and Assessing Adaptation with Copernicus Sentinel Data	Large Area Land Change Assessments for Sustainability	Mapping and Monitoring of Inland Water Bodies	Monitoring the Coastal Zone from Space: from Land/Sea/Air Interactions to Trends and Extremes
	10:10	Opportunities brought by Constellations of Small Satellites to help Understand Process on the Earth's Surface or to Explore New Services.	Advances in Environmental Monitoring Thanks to Unmanned Aircraft	Concerted Actions for Global Forest Biomass Monitoring	Satellite winds and cloud dynamics	CryoSat Mission: Highlights on Status and Future Outlook	Advances in Monitoring Land Surface Phenology	Challenges and Opportunities for Deep Learning in Remote Sensing: Understanding the World through Earth Observation	Using Earth Observations to Deliver on International Risk Reduction Efforts	Land Cover Regional to Global	Mapping and Monitoring of Inland Water Bodies	Monitoring Water Quality in Coastal and Inland Waters
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	13:30	Building Trains and Tandem Missions	Advances in Environmental Monitoring Thanks to Unmanned Aircraft	Near Real-Time Forest Monitoring	ESA's Earth Explorer Aeolus - First Results	The Importance of Snow in Earth Climate System	Advances in Monitoring Land Surface Phenology	AI and Data Analytics: Technologies and Applications	Natural Hazard	Multi-Source Data for Next Generation Land Monitoring	Wetlands Inventory, Assessment and Monitoring	Monitoring Water Quality in Coastal and Inland Waters
	15:10	Satellite Operations for EO missions	HAPS and Space 4.0	Near Real-Time Forest Monitoring	ESA's Earth Explorer Aeolus - First Results	The Importance of Snow in Earth Climate System	Monitoring Grassland Dynamics with Sentinel Data	AI and Data Analytics: Technologies and Applications	Natural Hazard	Multi-Source Data for Next Generation Land Monitoring	Radiative Transfer Modeling in the Optical Domain	Monitoring Water Quality in Coastal and Inland Waters
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Friday 17 May	08:30	Missions and data quality	Advances in Earth Observation with GNSS Reflectometry from Space	The Biomass Mission - Status of Implementation	Water Vapour	Radar Measurements of Alpine Snow	Mapping, Monitoring & Modelling of Savannah Vegetation Characteristics	Embedding Open and Commercial EO into Operational Working Practices	Natural Hazard	Next Generation Land Cover Monitoring Services: Towards a Flexible, User-Oriented Approach.	Present and Future of Calibration & Validation for Optical Imaging Sensor Products	Colour and Light in the Ocean from Earth Observation
	10:10	Sentinels and Copernicus Contributing Missions for Cultural & Natural Heritage	Remote Sensing of the Ocean Surface and Lower Atmosphere - a SOLAS Session	REDD+	GNSS and SAR Troposphere Observations for NWP Models	Observing Permafrost State and Dynamics from Space	Sentinel Applications for Understanding Impacts on South African Ecosystems and Societies	Analysis Ready Data: Moving from Concept to Practice	Natural Hazard	EO for Resilient Cities	Present and Future of Calibration & Validation for Optical Imaging Sensor Products	Colour and Light in the Ocean from Earth Observation
	12:20	Posters and light lunch										
	14:00	Sentinels and Copernicus Contributing Missions for Cultural & Natural Heritage	Integrated Earth Observation for Carbon Cycle Science	Precise Orbit Determination of Earth Observation Satellites - Progress, Validation, and Challenges	Atmospheric Satellite Data Assimilation	Observing Permafrost State and Dynamics from Space		Analysis Ready Data: Moving from Concept to Practice	Natural Hazard	EO for Resilient Cities	Present and Future of Calibration & Validation for Optical Imaging Sensor Products	Colour and Light in the Ocean from Earth Observation
15:40	Atmosphere	Cryosphere	Oceanography	Land	Methods	Missions	Climate	Space 4.0				