



 Federal Ministry
Republic of Austria
Climate Action, Environment,
Energy, Mobility,
Innovation and Technology



 Federal Ministry
Republic of Austria
European and International
Affairs

United Nations / Austria World Space Forum Space4Climate Action

07 - 09 December 2021

Organized jointly by
The United Nations Office for Outer Space Affairs (UNOOSA),
The Austrian Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation, and
Technology (BMK)
The Austrian Federal Ministry for European and International Affairs (BMEIA)

Times are all Central European Time (CET) (<https://time.is/de/CET>)

DAY 1 07.12.2021	
Morning	
10:00 – 10:05	<p>Moderator and housekeeping remarks</p> <p>Mr. Markus Woltran Programme Officer United Nations Office for Outer Space Affairs</p>
<p>Opening Space4Climate Action in the Decade of Action</p>	
10:05 – 11:00	<p>Ms. Leonore Gewessler Federal Minister for Climate Action, Environment, Energy, Mobility, Innovation and Technology Austria</p>
	<p>Mr. George Freeman (Video message) Minister for Science, Research and Innovation United Kingdom</p>
	<p>Ms. Simonetta Di Pippo Director United Nations Office for Outer Space Affairs</p>
	<p>Mr. Matthias Petschke (Video message) message) Director Directorate-General for Defense, Industry and Space European Commission</p>
	<p>Ms. Nicole Stott (Video message) Former NASA Astronaut</p>

11:00 – 12:00	Unified approach to address Climate Change: Key Role of Space Agencies
	<p>According to the UN General-Secretary, “climate crisis is a multilateral challenge and solving it requires coordination and cooperation on a scale we have never seen before”. This panel discussion will highlight the important role of space assets and their contribution to the mitigation of climate change. This panel will also explore how to further strengthen cooperation among space agencies and how they can support UNOOSA in future activities to achieve Sustainable Development Goal 13 on Climate Action.</p>
	<p><u>Moderator</u> Ms. Simonetta Di Pippo Director United Nations Office for Outer Space Affairs</p>
	<p>Mr. Josef Aschbacher Director General European Space Agency (ESA)</p>
	<p>Mr. Hiroshi Yamakawa President Japan Aerospace Exploration Agency (JAXA)</p>
	<p>Mr. Bill Nelson <i>(Video message)</i> NASA Administrator</p>
	<p>Ms. Karen M. St. Germain Director Earth Science Division NASA</p>
	<p>Mr. Francis Chizea Director General Nigeria National Space Research and Development Agency</p>
<p>Ms. Gay Jane Perez Deputy Director General Philippine Space Agency</p>	
<p>Ms. Beth Greenaway Head of Earth Observations and Climate UK Space Agency</p>	
<p>Break</p>	

Afternoon

**Session One
Partnership, Coordination and Cooperation**

International cooperation and partnerships are essential to provide access to space technologies, space data and data processing to all countries. In the space sector, there are already a comprehensive number of multilateral cooperation projects and initiatives ongoing. This session will demonstrate well-established examples of international partnerships and cooperation initiatives leveraging the benefits of space technologies for climate action, which could lead by example for building further projects.

Moderator

Ms. Margit Mischkulnig

Head of Department
Space Affairs

14:00 –
15:30

Ms. Sara Venturini

Climate Coordinator
Group on Earth Observations

Value of collaboration on Earth observation for climate action

Ms. Barbara Ryan

Executive Director
World Geospatial Industry Council

Mr. Albrecht von Barga

Chair Joint CEOS/CGMS Working Group on Climate
German Space Agency at DLR

Space-based observations supporting the systematic observation of the climate system

Mr. Michael Staudinger

ZAMG - Zentralanstalt für Meteorologie und Geodynamik
Permanent Representative of Austria with WMO

What do countries need from satellites?

15:30 –
17:00

**Matchmaking
Session I**

This session offers a unique opportunity for international networking and matchmaking. In this session, you can meet colleagues in virtual face-to-face meeting and exchange views and ideas. The aim is to network and find new partners for a possible further cooperation. Participants will have the opportunity to use this tool four times during the event.

Youth Perspective on space-based Climate Action	
17:00 - 18:30	<p>The world is home to 1.8 billion young people between the ages of 10 to 24 – the largest generation of youth in history. Young people are increasingly aware of the challenges and risks presented by the climate crisis and of the opportunity to achieve sustainable development through a solution to climate change. Young people will discuss in this session how space-based data and space technology can be used for climate monitoring and for efficient solutions that support climate neutrality. Another focus will be how young people can be involved in Space4Climate Action activities.</p> <p><u>Moderator</u> Ms. Miriam Egger UN Youth Delegate Austria</p>
	<p>Mr. Anthony Yuen Co-Chair Space Generation Advisory Council (SGAC)</p> <p><i>Youth-lead Space-based Initiatives for Climate Action from the Space Generation Advisory Council</i></p>
	<p>Ms. Karina Berbert Bruno GIS Analyst, Master's student University of Campinas, UNICAMP</p> <p><i>Satellite data for connecting environments and societies and addressing climate action</i></p>
	<p>Ms. Victoria Alonsoperez Founder Chipsafer UN Secretary General Youth Advisory Group</p>
	<p>Ms. Roberta Ianna Senior Expert Italian Ministry of Ecological Transition - Sogesid T.A. Directorate for Climate Change, Energy and Air Quality</p>

DAY 2: 08.12.2021

Morning

Session Two

Space-based solutions for Climate Action - the providers perspective

10:00 - 11:30	<p>Space-based technologies provide added value to the way our planet is perceived and unique information that greatly assists in the understanding and management of climate change. More than half of the Essential Climate Variables defined by the Global Climate Observing System depend on space observations, making space assets the key elements for providing observations and data that are global, uniform, sustained over years and repeated regularly. This session will use concrete examples to show the contribution of space in the context of climate change.</p>
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	<p><u>Moderator</u> Ms. Astrid Koch European Commission, DG - Defence Industry and Space International relations & Communications</p>	
	<p>Ms. Meghan Demeter IMEO Science coordinator, International Methane Emissions Observatory UN Environment Programme (UNEP)</p>	<p><i>International Methane Emissions Observatory Science Coordinator</i></p>
	<p>Mr. Ochiai Osamu Manager of Satellite Applications and Operations Center JAXA</p>	<p><i>Space-based solutions for Climate Action - JAXA's perspective</i></p>
	<p>Ms. Susanne Mecklenburg Climate Office European Space Agency (ESA)</p>	
	<p>Mr. Ayman Mahmoud Space Imaging Team Leader Egyptian Space Agency</p>	<p><i>ClimCam Project Climate change detection camera system using Machine Learning</i></p>
11:30 - 14:00	<p>Matchmaking Session II</p>	<p>This will be the second opportunity to meet colleagues in a virtual face-to-face meeting and exchange views and ideas. The aim is to network and find new partners for a possible further cooperation.</p>
14.00 - 15:30	<p style="text-align: center;">Session Three Space based solutions for Climate Action - where are the needs and what is the user perspective</p> <p>Food and water security, disaster management, renewable energy, conservation of nature, habitats, biodiversity and much more - all areas can benefit from space-based products and services. This session will provide an opportunity to delve into climate action from the user's angle. The discussion will also identify the potential areas the Space4Climate Action activities should focus on.</p>	
	<p><u>Moderator</u> Ms. Susanne Katzler-Fuchs BRIMATECH Services GmbH Bridging Markets and Technologies</p>	
	<p>Mr. Juan Carlos Villagran de Leon Head of UN-SPIDER Bonn UN Office for Outer Space Affairs</p>	<p><i>UN-SPIDER: Confronting hydrometeorological hazards exacerbated by climate change: Perspectives from the Disaster Management Community</i></p>

	<p>Ms. Joanna Post Intergovernmental Support and Collective Progress Division UN Climate Change Secretariat</p>	
	<p>Ms. Annalisa Donati Secretary General EURISY</p>	<p><i>Space Opportunities for Climate Challenges: how space solutions power the green transition</i></p>
	<p>Mr. Bertrand Frot Chief of Portfolio Management Office and deputy CIO UN Development Programme</p> <p>Ms Reina Ostuka Digital Innovation Specialist UN Development Programme</p>	<p><i>GIS in the future of development</i></p>
15:30 – 17:00	<p>Matchmaking Session III</p>	<p>This will be the third opportunity to meet colleagues in a virtual face-to-face meeting and exchange views and ideas. The aim is to network and find new partners for a possible further cooperation.</p>
<p>Afternoon</p> <p>Session Four (1/2)</p> <p>Examples and successful Initiatives</p>		
17:00 – 18:30	<p>Two sessions will show successful initiatives already in place and best practice examples will be used to illustrate how space assets can contribute to SDG 13 on Climate Action. The presented examples should encourage future exchange and networking.</p> <p><u>Moderator</u> Ms. Sharafat Gadimova Programme Officer United Nations Office for Outer Space Affairs</p>	
	<p>Mr. Aaron Davitt Principle Analyst, WattTime ClimateTrace</p>	<p><i>Climate TRACE - Climate action starts with a clearer picture</i></p>
	<p>Mr. Juan Miguel González-Aranda Chief Technology Officer of LifeWatch ERIC and ERIC Forum Executive Board Member</p>	<p><i>Towards the establishment of a global e-Biodiversity network for Sustainable Development Goals accomplishment and Ecosystem Services provision</i></p>

	<p>Mr. Tomaž Scavincar Founder Refarmo</p>	<i>REFARMO: Regenerative Farming</i>
	<p>Ms. Susmita Mohanty Director General Spaceport SARABHAI</p>	

DAY 3: 09.12.2021

Morning

Session Four (2/2)
Examples and successful Initiatives

10:00 – 11:30	<p><u>Moderator</u> Ms. Veronica Cesco Associate Programme Officer United Nations Office for Outer Space Affairs</p>	
	<p>Mr. Andreas Salentinig CEO Ubicube</p>	<i>Keeping an Eye on Surface Water. From Space.</i>
	<p>Mr. Michael Aspetsberger Head of High Performance Computing and Aerospace Cloudflight</p>	
	<p>Ms. Francesca Piatto Project Officer EARSC</p>	
	<p>Mr. James Parr Founder and CEO Trillium Technologies</p>	<i>Digital Twinning, cognitive computing in space and a vision of intelligent planetary stewardship</i>
11:30 – 12:30	<p>Matchmaking Session IV</p>	<p>This will be the fourth and last opportunity to meet colleagues in a virtual face-to-face meeting and exchange views and ideas. The aim is to network and find new partners for a possible further cooperation.</p>

Session Five Recommendations, innovative and new approaches		
12:30- 14:00	<p><u>Moderator</u> Mr. Markus Mooslechner Director Terra Mater</p>	
	<p>Mr. Alexander Macdonald Earth System Observatory National Aeronautics Space Agency (NASA)</p>	
	<p>Mr. Christoph Aubrecht Programme Coordinator European Space Agency (ESA)</p>	<i>ESA's Global Development Assistance Program - Accelerating Impact</i>
	<p>Ms. Clemence Poirier Resident Fellow ESPI Ms. Michelle Hermes Research Intern ESPI</p>	<i>The role of space-based data in European Climate Policies</i>
	<p>Ms. Evgeniia Drozhashchikh Department of Multilateral Economic Cooperation Ministry of Economic Development, Russia</p>	<i>Monitoring emissions from space: rationale and way forward</i>
14:00	Summary and outlook	
	<p><u>Moderator</u> Mr. Markus Woltran Programme Officer United Nations Office for Outer Space Affairs</p>	
	<p>Mr. Jeffrey Sachs Director Center for Sustainable Development at Columbia University</p>	
	<p>Ms. Henriette Spyra Director General Innovation & Technology Ministry for Climate Action Environment, Energy, Mobility, Innovation and Technology Austria</p>	
	<p>Ms. Simonetta Di Pippo Director United Nations Office for Outer Space Affairs</p>	