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](https://time.is/de/CET))

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

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.

**Moderator**
Ms. Simonetta Di Pippo  
Director  
United Nations Office for Outer Space Affairs

**Mr. Josef Aschbacher**  
Director General  
European Space Agency (ESA)

**Mr. Hiroshi Yamakawa**  
President  
Japan Aerospace Exploration Agency (JAXA)

**Mr. Bill Nelson** (Video message)  
NASA Administrator

**Ms. Karen M. St. Germain**  
Director  
Earth Science Division  
NASA

**Mr. Francis Chizea**  
Director General  
Nigeria National Space Research and Development Agency

**Ms. Gay Jane Perez**  
Deputy Director General  
Philippine Space Agency

**Ms. Beth Greenaway**  
Head of Earth Observations and Climate  
UK Space Agency

Break
### 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

**Ms. Sara Venturini**  
Climate Coordinator  
Group on Earth Observations

**Ms. Barbara Ryan**  
Executive Director  
World Geospatial Industry Council

**Mr. Albrecht von Bargen**  
Chair Joint CEOS/CGMS Working Group on Climate  
German Space Agency at DLR

**Mr. Michael Staudinger**  
ZAMG - Zentralanstalt für Meteorologie und Geodynamik  
Permanent Representative of Austria with WMO

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<th>Time</th>
<th>Session</th>
<th>Description</th>
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| 14:00 – 15:30 | **Session One**  | ***Partnership, Coordination and Cooperation***  
**Moderator:** Ms. Margit Mischkulnig, Head of Department, Space Affairs  
**Ms. Sara Venturini:** Climate Coordinator, Group on Earth Observations  
**Ms. Barbara Ryan:** Executive Director, World Geospatial Industry Council  
**Mr. Albrecht von Bargen:** Chair Joint CEOS/CGMS Working Group on Climate, German Space Agency at DLR  
**Mr. Michael Staudinger:** ZAMG - Zentralanstalt für Meteorologie und Geodynamik, Permanent Representative of Austria with WMO  
**Value of collaboration on Earth observation for climate action** |
| 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

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.

Moderator
Ms. Miriam Egger
UN Youth Delegate Austria

Mr. Anthony Yuen
Co-Chair
Space Generation Advisory Council (SGAC)

Ms. Karina Berbert Bruno
GIS Analyst, Master's student
University of Campinas, UNICAMP

Ms. Victoria Alonsoperez
Founder Chipsafer
UN Secretary General Youth Advisory Group

Ms. Roberta Ianna
Senior Expert
Italian Ministry of Ecological Transition - Sogesid T.A.
Directorate for Climate Change, Energy and Air Quality

Youth-lead Space-based Initiatives for Climate Action from the Space Generation Advisory Council

Satellite data for connecting environments and societies and addressing climate action

DAY 2: 08.12.2021
Morning

Session Two
Space-based solutions for Climate Action - the providers perspective

10:00 – 11:30
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.
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| 11:30 - 14:00 | Matchmaking Session II  
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. |
| 14.00 - 15:30 | Session Three  
**Space based solutions for Climate Action - where are the needs and what is the user perspective**  
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. |

**Moderator**  
Ms. Astrid Koch  
European Commission, DG - Defence Industry and Space  
International relations & Communications

**Ms. Meghan Demeter**  
IMEO Science coordinator, International Methane Emissions Observatory  
UN Environment Programme (UNEP)  
*International Methane Emissions Observatory Science Coordinator*

**Mr. Ochiai Osamu**  
Manager of Satellite Applications and Operations Center  
JAXA  
*Space-based solutions for Climate Action - JAXA’s perspective*

**Ms. Susanne Mecklenburg**  
Climate Office  
European Space Agency (ESA)

**Mr. Ayman Mahmoud**  
Space Imaging Team Leader  
Egyptian Space Agency  
*ClimCam Project Climate change detection camera system using Machine Learning*

**Moderator**  
Ms. Susanne Katzler-Fuchs  
BRIMATECH Services GmbH  
Bridging Markets and Technologies

**Mr. Juan Carlos Villagran de Leon**  
Head of UN-SPIDER Bonn  
UN Office for Outer Space Affairs  
*UN-SPIDER: Confronting hydrometeorological hazards exacerbated by climate change: Perspectives from the Disaster Management Community*
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<td>15:30 – 17:00</td>
<td>Matchmaking Session III</td>
<td>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.</td>
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<td>17:00 – 18:30</td>
<td>Afternoon Session Four (1/2)</td>
<td>Examples and successful Initiatives</td>
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<td>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.</td>
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**Moderator**

**Ms. Sharafat Gadimova**  
Programme Officer  
United Nations Office for Outer Space Affairs

**Mr. Aaron Davitt**  
Principle Analyst, WattTime  
ClimateTrace

**Mr. Juan Miguel González-Aranda**  
Chief Technology Officer of LifeWatch ERIC and ERIC Forum Executive Board Member

**Space Opportunities for Climate Challenges: how space solutions power the green transition**

**GIS in the future of development**

**Climate TRACE - Climate action starts with a clearer picture**

**Towards the establishment of a global e-Biodiversity network for Sustainable Development Goals accomplishment and Ecosystem Services provision**
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<th>Mr. Tomáž Scavincar</th>
<th>Founder</th>
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<th>Ms. Susmita Mohanty</th>
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<td>Director General</td>
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<td>Spaceport SARABHAI</td>
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**Day 3: 09.12.2021**

**Morning**

**Session Four (2/2)**

**Examples and successful Initiatives**

**Moderator**

**Ms. Veronica Cesco**

Associate Programme Officer

United Nations Office for Outer Space Affairs

**Mr. Andreas Salentinig**

CEO

Ubicube

**Mr. Michael Aspetsberger**

Head of High Performance Computing and Aerospace

Cloudflight

**Ms. Francesca Piatto**

Project Officer

EARSC

**Mr. James Parr**

Founder and CEO

Trillium Technologies

**Keeping an Eye on Surface Water. From Space.**

**Digital Twinning, cognitive computing in space and a vision of intelligent planetary stewardship**

**11:30 – 12:30**

**Matchmaking Session IV**

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.
### Session Five
**Recommendations, innovative and new approaches**

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| 12:30- | Overview| **Mr. Markus Mooslechner**
Terra Mater  
**Mr. Alexander Macdonald**
Earth System Observatory  
National Aeronautics Space Agency (NASA)  
**Mr. Christoph Aubrecht**
Programme Coordinator  
European Space Agency (ESA)  
**Ms. Clemence Poirier**
Resident Fellow  
ESPI  
**Ms. Michelle Hermes**
Research Intern  
ESPI  
**Ms. Evgeniia Drozhashchikh**
Department of Multilateral Economic Cooperation  
Ministry of Economic Development, Russia |
| 14:00  | Summary and outlook | **Mr. Markus Woltran**
Programme Officer  
United Nations Office for Outer Space Affairs  
**Mr. Jeffrey Sachs**
Director  
Center for Sustainable Development at Columbia University  
**Ms. Henriette Spyra**
Director General Innovation & Technology  
Ministry for Climate Action Environment, Energy, Mobility, Innovation and Technology  
Austria  
**Ms. Simonetta Di Pippo**
Director  
United Nations Office for Outer Space Affairs |