

Fifty-ninth session of the Scientific and Technical Subcommittee
of the Committee on the Peaceful Uses of Outer Space
Vienna, 7-18 February 2022

STATEMENT BY SIMONETTA DI PIPPO

DIRECTOR

UNITED NATIONS OFFICE FOR OUTER SPACE AFFAIRS

Mister Chair, distinguished delegates,

On behalf of the Office for Outer Space Affairs (UNOOSA), I welcome you all to the fifty-ninth session of the Subcommittee and thank you for the opportunity to address this session on the work of the Office.

Mister Chair, distinguished delegates,

We continue to witness growing interest in the work of the Committee and its Subcommittees. With the start of this year's cycle of sessions, the number of States members of the Committee is brought to a milestone number of 100 States. We also have 3 new permanent observer organizations, bringing their number to nearly 50. This encouraging trend of sharp increase in the membership of the Committee over the last few years demonstrates the growing relevance of this respected and instrumental body as a unique platform for international cooperation and strengthened multilateralism in outer space activities.

No less it underscores the increase in the political, socioeconomic as well as cultural significance of space activities for States and other stakeholders as applications for membership and for observer status are continuously received. The growing number of new subject matters that are put on the respective agendas of the Committee and its Subcommittees showcase both the value of space solutions but also a strong appetite of the relevant actors to deliver in a responsible manner with the long-term space sustainability at the forefront.

With the adoption by the General Assembly of its resolution 76/3 on 25 October 2021, we can now make reference to the "Space2030" Agenda and its implementation plan - a comprehensive and strategic document. One that has the advancement of space benefits at its core. In fact, the Space2030 Agenda contains valuable tools and mechanisms Member States can avail themselves of, and highlights the importance of partnerships and the broad societal contribution that space activities translate into.

Mister Chair, distinguished delegates,

The year 2021 continued to witness positive developments in the realm of space, both in terms of policy and technological advancements, and international cooperation.

Let me once again reiterate that since the beginning of 2020, UNOOSA's responsibilities have become even more closely linked to the work of the UN Secretary-General with the Secretary-General's Bulletin ST/SGB/2020/1 that provides the administrative setting

for our continued role as the gateway to space in the United Nations system, a capacity-builder, convener, and a facilitator of international cooperation in the peaceful uses of outer space.

In 2021, our endeavours to better leverage the role of Space in policy- and decision-making processes have continued, including within the United Nations system. In particular, I wish to mention the launch of “Our Common Agenda” report by the UN Secretary-General in September 2021. This Common Agenda was prepared in response to the GA Resolution 75/1 adopted on the occasion of the 75 years of the UN in 2020 and is based on a consultative process engaging Member States, the UN system as a whole, as well as a broad array of stakeholders, including prominent thought leaders, young people and civil society.

I’m pleased to note that the peaceful, secure, and sustainable use of outer space, and actions related to these objectives comprise an important pillar of Our Common Agenda. As we look into the future and work towards making access to the benefits of space truly universal, multistakeholder dialogue on outer space and secure and sustainable use of this unique environment is of paramount importance. In this context, a high-level, multilateral “Summit of the Future” is envisaged to take place in September 2023 to advance ideas for governance arrangements in the areas of international concern mentioned in this report.

Mister Chair, distinguished delegates,

UNOOSA continuously works with an ever-increasing number of partners, from governmental authorities and space agencies to international organizations, academia and the commercial space sector. The lessons learned from 2020 have proven inevitable in improving the way of work and delivery for 2021. Our multi-stakeholder and results-driven approach has enabled the Office to continue its efforts to assist States in capacity-building in space science, technology, law and policy, and several other initiatives. In the Annex to this statement, delegations will find highlights of activities and actions taken by UNOOSA in 2021 and planned for 2022. Allow me to mention a few examples.

Through UNOOSA’s Space Law for New Space Actors project, we have sustained our effort in fostering responsible space operations and further promote the development of national space law and policies in line with the existing provisions. The Office’s UN-SPIDER programme has delivered services and advisory missions in Africa, Asia and Latin America, strengthening capabilities to address disasters, save lives and prevent damages. Our Access to Space for All initiative in 2021 enabled yet another Member State to become a space-faring nation - Mauritius joined Kenya and Guatemala on this successful journey.

Mister Chair, distinguished delegates,

While we assign great importance to expanding access to space benefits, we consistently maintain sustainability in the purview across all activities as a priority to ensure that the space sector can thrive. In that vein, we launched together with our partners The Promoting Space Sustainability project aimed at raising global awareness of the importance of space sustainability and made available in a stand-alone publication the Guidelines for the Long-term Sustainability of Outer Space Activities of the Committee on the Peaceful uses of Outer Space (LTS Guidelines) that provide an outstanding framework to help ensure the safe and sustainable use of space.

A series of [infographics](#) and [podcast episodes](#) that tell the story of space debris, explain the risks and illustrate the solutions available to ensure future space exploration remains

sustainable are now also showcased on UNOOSA's website as a result of one more partnership and cooperation.

Mister Chair, distinguished delegates,

UNOOSA's convening power has facilitated discussions on across a range of topics in 2021. Food and Water Systems, Dark and Quiet Skies, Space Exploration, Climate Action, to mention just few examples. The International Committee on Global Navigation Satellite Systems (ICG)'s 15th Annual Meeting as well as the UN/Mongolia Workshop helped advance cooperation in the GNSS domain. We hosted the 7th IAA Planetary Defense Conference, in cooperation with the European Space Agency that brought together close to 700 participants in a virtual 5-day meeting. Moreover, throughout 2021, UNOOSA addressed global audiences through a series of webinars, and by participating at the EXPO 2020 showcased the work of the UN in and from space to a great diversity of new stakeholders.

As part of our efforts to advance inclusion and diversity in the space sector, the UN/Brazil/UAE Space4Women Expert meeting in Dubai explored initiatives, challenges and opportunities for women in space and our mentors continued guiding mentees in defining and achieving their goals. The Space4Youth competition has amplified the voices of the next generation in Climate Action and tangible progress was achieved in the Space for Persons with Disabilities project. The year ended on a high note with an astonishing attendance to our flagship World Space Forum organized with our host country Austria with focus on Space 4 Climate Action.

Mister Chair, distinguished delegates,

Across many of our endeavours, we are greatly appreciative for the support of our partners. As the demand by the Member States for our services continues to expand, from legal advisory services to guidance on space object registration or hands-on capacity building activities, we engage with a variety of stakeholders through strong partnerships to successfully advance and sustain these endeavours.

Mister Chair, distinguished delegates,

In concluding, let me reassure you of our fullest support to Member States in providing a full spectrum of assistance in Space domain, from technical, legal, policy, and hands-on capacity-building activities.

We look forward to the Committee's continuous growing membership and working with Member States in using space responsibly, sustainably and in support of their national development needs.

Thank you.

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- **Enclosed:** Annex to the UNOOSA Director's Statement containing highlights of substantive activities of the Office for Outer Space Affairs - Programme activities, projects and initiatives for 2021 and 2022

Annex

HIGHLIGHTS OF SUBSTANTIVE ACTIVITIES OF THE OFFICE FOR OUTER SPACE AFFAIRS - Programme activities, projects and initiatives for 2021 and 2022

United Nations Programme on Space Applications

Please refer to Appendix I and II to the present Annex and to documents A/AC.105/1254, A/AC.105/1255 and A/AC.105/1256.

United Nations Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER)

Please refer to Appendix I and II to the present Annex and to document A/AC.105/1250.

International Committee on Global Navigation Satellite Systems

Please refer to Appendix I and II to the present Annex and to document A/AC.105/1249.

Secretariat to the Space Mission Planning Advisory Group (SMPAG)

Please refer to Appendix I and II to the present Annex.

Regional Centres for Space Science and Technology Education, affiliated to the United Nations

Awareness-raising and Outreach

Please refer to Appendix I and II to the present Annex.

Other Activities

Please refer to Appendix I and II to the present Annex.

LEGAL INSTRUMENTS RELATING TO COLLABORATION (May 2021 - January 2022)

- Grant Funding Agreement between the United Nations and the United Kingdom Space Agency – 10 December 2021.
- Memorandum of Understanding between the United Nations Office for Outer Space Affairs and the Mexican Space Agency – 28 October 2021.
- Memorandum of Understanding between the United Nations Office for Outer Space Affairs and the Mohammed Bin Rashid Space Centre Concerning Cooperation Programme on Payload Hosting Initiative into the Access to Space for All initiative – 28 October 2021.
- Grant Funding Agreement between the United Nations and the United Kingdom Space Agency – 20 October 2021.
- Financial Exchange of Letters between the United Nations Office for Outer Space Affairs and the Kyushu Institute of Technology on the Space Law for New Space Actors Project – 18 October 2020.
- Financial Exchange of Letters between the United Nations Office for Outer Space Affairs and the Government of Chile on the Space Law for New Space Actors Project – 8 October 2021.
- Memorandum of Understanding between the United Nations Office for Outer Space Affairs and the International Institute for the Unification of Private Law – 22 September 2021.
- Financial Exchange of Letters between the United Nations and the Brazilian Space Agency on Space for Women project – 9 August 2021.
- Exchange of Letters between the United Nations and Brazil on Space for Women project – 9 August 2021.
- Memorandum of Understanding between the United Nations and the International Space University – 5 July 2021.
- Funding Agreement between the United Nations and the Secure World Foundation – 24 June 2021.
- Memorandum of Understanding between the United Nations Office for Outer Space Affairs and the Philippines National Space Agency – 4 June 2021.
- Financial Exchange of Letters between the United Nations Office for Outer Space Affairs and Japan on the Space Law for New Space Actors Project – 25 May 2021.
- Memorandum of Understanding between the United Nations and the National Centre of Space Research and Technology (NCRST) regarding the Regional Support Office in Almaty, Kazakhstan – 24 May 2021.
- Memorandum of Understanding between the United Nations and the General Secretariat of the Central American Integration System (SG-SICA) – 10 May 2021.

HOST COUNTRY AGREEMENTS (May 2021 - January 2022)

- United Nations/United Arab Emirates on International Astronautical Federation Workshop on Space Technology for Socio-Economic Benefits: Space Exploration – A source of inspiration, innovation and discovery.
- United Nations/Brazil/United Arab Emirates Space for Women Expert Meeting: Initiatives, challenges and opportunities for women in space.

- United Nations/Kingdom of Spain on the United Nations/Spain/International Astronomical Union Conference on Dark and Quiet Skies for Science and Society.

RESOURCES OF THE OFFICE

Human Resources overview*

| Funding Source | 2016-2017 | 2018-2019 | 2020 | 2021 | 2022 (as at 31 January 2022) |
|--|------------------|------------------------|------------------------|------------------------|---------------------------------|
| Regular Budget Positions | 23 (18P/5GS) | 23 (18P/5GS) | 23 (18P/5GS) | 23 (18P/5GS) | 23 (18P/5GS) |
| Extra-Budgetary Positions funded from voluntary cash contributions | 4 (2P/2GS) | 6 (3P/3GS) 2 (Temp) | 5 (2P/3GS) 3 (Temp) | 5 (2P/3GS) 3 (Temp) | 5 (2P/3GS) 3 (Temp) |
| Extra Budgetary Positions funding in-kind | 8 (6NRL/2JPO) | 9 (6NRL/3JPO) | 5 (2NRL/3JPO) | 6 (3NRL/3JPO) | 6 (3NRL/3JPO) |
| Total Staff* | 35 | 40 | 36 | 37 | 37 |

* As at 31 December unless otherwise specified. Excludes consultants, contractors and interns.

Financial resources overview

Regular Budget

Thousands of United States dollars

| 2014-2015 | 2016-2017 | 2018-2019 | 2020 | 2021* | 2022** |
|-----------|-----------|-----------|---------|---------|---------|
| 7 774.3 | 7 561.8 | 7 558.7 | 3 876.6 | 4 026.2 | 4 215.1 |

*Excluding year-end adjustments

**Appropriation

Extra-budgetary

Thousands of United States dollars

| | 2021 | Donors |
|--|----------|---|
| Cash contributions received (excl. prior period adjustments) | 1,248.3 | Airbus Defence and Space; Asia Pacific Space Cooperation Organisation (APSCO); Austrian Space Forum; AVIO s.p.a.; Center for Applied Space Technology and Microgravity (ZARM), University of Bremen, Germany; Centre for Remote Sensing of Last Surfaces (ZFL), University of Bonn, Germany; Centre for Space Science & Technology Education in Asia & the Pacific (CSSTEAP); China National Space Administration (CNSA); |
| In-kind Contributions | 1 043.5* | Delta State University, United States of America; European Commission; European Space Agency (ESA); German Aerospace Center (DLR); Government of Austria (Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology (BMK); Federal Ministry for Europe, Integration and |

| | | |
|--|--|--|
| | | <p>Foreign Affairs (BMEIA)); Government of Brazil (Ministry of Science Technology and Innovation (MCTI); Brazilian Space Agency (AEB); Brazilian Air Force (FAB); National Institute for Space Research (INPE)); Government of Chile; Government of France; Government of Germany; Government of Japan; Government of Luxembourg; International Astronautical Federation (IAF); Iranian Space Agency (ISA); Japan Aerospace Exploration Agency (JAXA); Keldysh Institute of Applied Mathematics of Russian Academy of Sciences (KIAM RAS); Kyushu Institute of Technology (Kyutech), Japan; Mohammed Bin Rashid Space Centre (MBRSC), United Arab Emirates; Mongolian Geospatial Association (MGA); Prince Sultan bin Abdulaziz International Prize for Water (PSIPW); Secure World Foundation (SWF); United Kingdom Space Agency (UKSA); United States Mission to the International Organizations in Vienna; and University of Vienna, Austria.</p> |
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* As reported to the Office. Not all in-kind donors are able to submit estimated value of the support and services provided to the Office in the delivery of its activities.

Appendix I

Highlights of 2021 programme activities, projects and initiatives of the Office for Outer Space Affairs

Programme on Space Applications (PSA)

| <i>Workshops, symposia, conferences</i> | <i>Location</i> | <i>Dates</i> |
|--|----------------------|--------------------|
| UN/Austria Symposium on Space Applications for Sustainable Food Systems (including ½ day webinar on Earth observation for agriculture) | Virtual | 7-9 September 2021 |
| United Nations/Spain/International Astronomical Union Conference on Dark and Quiet Skies for Science and Society | Virtual | 3-7 October 2021 |
| United Nations/United Arab Emirates/International Astronautical Federation Workshop on Space Technology for Socio-Economic Benefits: Space Exploration – A source of inspiration, innovation and discovery | United Arab Emirates | 22-24 October 2021 |
| UN/Mongolia Workshop on Global Navigation Satellite Systems | Mongolia | 25-29 October 2021 |
| International Space Weather Initiative Workshop on Space Weather: Science and Applications | Virtual | 2-3 November 2021 |

| <i>Initiatives</i> | <i>Information</i> |
|--|---|
| Access to Space for All | |
| Announcement of opportunity: Avio/Vega-C (1st round) | Announced on 8 October 2020, deadline for applications 4 April 2021 |
| Announcement of opportunity: Japan Aerospace Exploration Agency/KiboCUBE (6th round) | Announced on 10 December 2020, deadline for applications 30 June 2021 |
| Announcement of opportunity: Keldysh Institute of Applied Mathematics/ISONscope(1st round) | Announced on 27 January 2021, deadline for applications 1 May 2021 |
| Announcement of opportunity: Japan Aerospace Exploration Agency/KiboCUBE (7th round) | Announced on 15 July 2021, deadline for applications 31 December 2021 |
| Announcement of opportunity: European Space Agency/HyperGES (2nd round) | Announced on 1 September 2021, deadline for applications 28 February 2022 |
| Announcement of opportunity: Kyushu Institute of Technology/PNST (2022 round) | Announced on 21 September 2021, deadline for applications 10 January 2022 |

| | |
|---|---|
| Webinar programme on small satellite development track of Access to Space for All | Seven sessions (1/2 day) |
| Webinar programme on hypergravity and microgravity track of Access to Space for All | Eleven sessions (1/2 day) |
| Webinar programme on space exploration track of Access to Space for All | Two sessions (1/2 day) |
| Webinar programme on education track of Access to Space for All | Four sessions (1/2 day) |
| Space for Water | |
| Space for Water Portal | Continuous content and services development |
| Space for Persons with Disabilities | |
| Webinar on Space for Persons with Disabilities: "Pushing Frontiers: Human Spaceflight and Disability" | One session (1/2 day) |

| Fellowships | Location |
|---|-----------------|
| Fellowship Programme for "Drop Tower Experiment Series" (DropTES) | Germany |
| Fellowship Programme for "the Large Diameter Centrifuge Hypergravity Experiment Series" (HyperGES) | The Netherlands |
| UN/Japan Long-term Fellowship Programme 2021 Post-graduate study on Nano-Satellite Technologies (PNST) | Japan |
| UN/Japan Cooperation Programme on CubeSat Deployment from the International Space Station Japanese Experiment Module (KiboCUBE) | Japan |

International Committee on GNSS (ICG)

| Activity | Location | Dates |
|---|-----------------|-----------------------------|
| Training Course on Global Navigation Satellite Systems | Virtual | 19-21 January 2021 |
| Training Course on Global Navigation Satellite Systems for Policy and Decision Makers | Virtual | 28 January 2021 |
| Eastern Africa Global Navigation Satellite Systems and Space Weather Capacity Building Workshop | Virtual | 21-25 June 2021 |
| Workshop on Global Navigation Satellite Systems and Space Weather | Italy (Hybrid) | 30 August 2021 |
| 15th Meeting of the International Committee on Global Navigation Satellite Systems | Austria | 27 September-1 October 2021 |

United Nations Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER)

| Activity | Location | Dates |
|---|-----------------|------------------|
| Joint UN-SPIDER/SAARC/IWMI Regional workshop: "Enhancing preparedness for climate-related disasters using space-based technologies" | | 17 February 2021 |

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|--|---------------------------|---------------------------------|
| Virtual support to Guatemala's National Coordinating Agency for Disaster Reduction (CONRED) due to eruption of Pacaya volcano. | Guatemala | March and April 2021 |
| Virtual Advisory Support to Nigeria with the National Space Research and Development Agency (NASRDA). | Nigeria | January to May 2021 |
| National Virtual Expert Meeting for Nigeria on Space Technologies for Disaster Management with NASRDA, the National Emergency Management Agency (NEMA) and the National Hydrological Services Agency (NIHSA). | Nigeria | 13 – 15 April 2021 |
| Virtual support to Namibia through the provision of maps or flooded areas and more than 490 maps of the Standard Vegetation Index covering the period from April 2000 to April 2021. The maps were presented to the National Directorate of Disaster Risk Management of Namibia. | Namibia | April to June 2021 |
| Virtual support to Malawi through the provision of maps or flooded areas and more than 490 maps of the Standard Vegetation Index covering the period from April 2000 to May 2021. The maps were presented to the Department of Disaster Management Affairs of Malawi and to the Office of the United Nations Resident Coordinator in Malawi. | Malawi | May to July 2021 |
| Online workshop: "Drought monitoring and management using Earth observation and weather forecast data" | Virtual | 7 July 2021 |
| UN-SPIDER Virtual Regional Expert Meeting: "Space-based solutions for risk and disaster management in Southern Africa". | Virtual | 13 to 15 July 2021 |
| United Nations/Islamic Republic of Iran workshop on space technology applications for drought, flood and water resource management | Virtual | 9–11 August 2021 |
| A second online training course on flood mapping with Sentinel-1 radar imagery in Google Earth Engine was provided at the request of the Director of the National Civil Protection Directorate of the Niger. The virtual training course was co-organized with the UN Resident Coordinator's Office in Niger. | Niger | 11 and 12 August 2021 |
| Virtual support to Malawi through the provision of maps or flooded areas and more than 490 maps of the Standard Vegetation Index covering the period from April 2000 to September 2021. The maps were provided to the Paraguayan Space Agency. | Paraguay | September to October 2021 |
| UN-SPIDER/ZFL Bonn International Conference: "Space-based solutions for disaster management in Africa: networks and information technologies in times of crisis" | Virtual | 16 to 18 November 2021 |
| UN-SPIDER virtual regional expert meeting for Latin America and the Caribbean on the theme "Space-based solutions for disaster risk reduction and emergency response in Latin America" | Virtual | 23 to 25 November 2021 |
| UN-SPIDER/International Charter Space and Major Disasters/CEPRENAC Regional Training Course on the Procedures employed by Project Managers in case of | Guatemala City, Guatemala | 30 November to 02 December 2021 |

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|---|-----------|------------------------------|
| Activation of the International Charter Space and Major Disasters | | |
| New layout of the UN-SPIDER Knowledge Portal launched | Virtual | July 2021 |
| Launch of a dedicated procedure to use the Global Wildfire Information System (GWIS) to generate data for an ad hoc indicator to present information on the efforts of Member States to reduce the impacts of fires on forests. This procedure can be used by Member States to report their progress in the context of the Sendai Framework targets | Virtual | November 2021 |
| Incorporation of national disaster management agencies of Armenia, the Gambia, Mexico, Mongolia and South Africa as Authorised Users of the International Charter Space and Major Disasters. In addition, national disaster management agencies of Honduras, Nicaragua and Panama elevated requests to be incorporated as Authorised Users. | Virtual | January to December 2021 |
| Technical advisory support through provision of national expert | Sri Lanka | October to December 2021 |
| Technical advisory support through provision of national expert | Mongolia | October to December 2021 |
| Virtual technical advisory support to Afghanistan, | Virtual | January to May 2021 |
| Technical Advisory Support to the Ministry of Emergency Situations, Armenia | Virtual | August 2021 |
| Training on Space Technology for Building Disaster Resilience to Water Scarcity with Asia Pacific Space Cooperation Organization | Virtual | 11-15 and 18-22 October 2021 |
| Phase II of the Massive Open Online Course (MOOC) on the “Geospatial Applications for Disaster Risk Management” | Virtual | 1 June to 30 November 2021 |

Secretariat of the Space Mission Planning Advisory Group (SMPAG) and other capacity-building activities in the area of near-Earth Objects and planetary defence

| <i>Activity</i> | <i>Location</i> | <i>Dates</i> |
|---|-----------------|--------------------|
| 16th SMPAG Meeting | Virtual | 24-25 March 2021 |
| 17th SMPAG Meeting | Virtual | 13-14 October 2021 |
| 2021 International Academy of Astronautics (IAA) Planetary Defence Conference, hosted by UNOOSA in cooperation with ESA | Virtual | 26-30 April 2021 |

Capacity-building in space law and policy

| <i>Activity</i> | <i>Location</i> | <i>Dates</i> |
|--|--------------------------------|--------------------|
| United Nations Technical Advisory Mission to Chile | Virtual | 19-21 October 2021 |
| Global Networking Forum on Space Law for New Space Actors - Fostering Responsible National Space Activities at 72 nd International Astronautical Congress | Dubai, United Arab Emirates | 25 October 2021 |

Inter-agency coordination

| <i>Activity</i> | <i>Location</i> | <i>Dates</i> |
|--|-----------------|------------------|
| UN-Space:40th annual session of the Inter-agency Meeting on Outer Space Activities | Virtual | 14 December 2021 |

World Space Forum

| <i>Activity</i> | <i>Location</i> | <i>Dates</i> |
|--|-----------------|-------------------|
| United Nations/Austria World Space Forum on the theme "Space 4 Climate Action" | Virtual | 7-9 December 2021 |

Regional Centres

| | <i>Location</i> |
|---|------------------|
| Centre for Space Science and Technology Education in Asia and the Pacific (CSSTEAP) | New Delhi, India |
| African Regional Centre for Space Science and Technology Education in French Language (CRASTE-LF) | Rabat, Morocco |
| African Regional Centre for Space Science and Technology Education in English Language (ARCESSTE-E) | Ile-Ife, Nigeria |
| Regional Centre for Space Science and Technology Education in Latin America (CRECTEALC) | Puebla, Mexico |
| Regional Centre for Space Science and Technology Education for Western Asia (RCSSETWA) | Amman, Jordan |
| Regional Centre for Space Science and Technology Education in Asia and the Pacific (RCSSTEAP) | Beijing, China |

Awareness-raising and Outreach

| <i>United Nations/International Days and Anniversaries</i> | <i>Dates</i> |
|--|------------------|
| International Day of Women and Girls in Science | 11 February 2021 |

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|---|-------------------|
| International Women's Day | 8 March 2021 |
| World Water Day | 22 March 2021 |
| International Day of Human Space flight | 12 April 2021 |
| World Day to Combat Desertification and Drought | 17 June 2021 |
| International Asteroid Day | 30 June 2021 |
| International Youth Day | 12 August 2021 |
| World Space Week | 4-10 October 2021 |
| International Day for Disaster Reduction | 13 October 2021 |
| International Day of Persons with Disabilities | 21 December 2021 |

| <i>Exhibitions</i> | <i>Location</i> | <i>Dates</i> |
|---|-----------------------------|---------------------------|
| Space4Our Planet exhibit at European Parliament and Université Libre de Bruxelles | Brussels, Belgium | September – November 2021 |
| Space4Our Planet exhibit at Observatoire de Paris | Paris, France | October – November 2021 |
| Space4Our Planet exhibit at EXPO 2020 | Dubai, United Arab Emirates | October 2021 |
| Space4Our Planet exhibit at French pavilion at EXPO 2020 at EU Honour Day | Dubai, United Arab Emirates | 23 October 2021 |
| UNOOSA participation at the 72 nd International Astronautical Congress | Dubai, United Arab Emirates | 25-29 October 2021 |

| <i>Publications</i> | <i>Symbol/Date</i> |
|--|-------------------------------------|
| Guidelines for the Long-term Sustainability of Outer Space Activities of the Committee on the Peaceful Uses of Outer Space | ST/SPACE/79 June 2021 |
| UNOOSA 2020 Annual Report | ST/SPACE/80 August 2021 |
| The Interoperable Global Navigation Satellite System Space Service Volume, 2 nd edition | ST/SPACE/75/REV.1 September 2021 |

| <i>Other activities</i> | <i>Dates</i> |
|--|-------------------|
| Space Economy | |
| Space Economy 2020 Outcome Report | 20 January 2021 |
| Space Economy: Africa in Focus virtual conference | 30 June 2021 |
| Space4Youth | |
| Space4Youth Competition 2021 | March-June 2021 |
| Virtual event "Space4Youth for Climate Action: Intergenerational Dialogue", at Youth Climate Summit/Pre COP26 | 29 September 2021 |
| Space for the Great Reset | |
| Virtual event "Boosting sustainable economic growth for a resilient COVID-19 recovery" | 5 May 2021 |
| Virtual event "Space for Climate Action – Space technologies as enabler for climate mitigation, adaptation and resilience" | 14 July 2021 |

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|---|----------------------|
| Virtual event “Towards a fair, responsible and sustainable access to space to reduce inequalities” | 20 December 2021 |
| Space4Women | |
| Launch of UNOOSA Space4Women 2 nd cohort mentorship cycle | 11 February 2021 |
| International Day of Women and Girls in Science – “Space4Women” celebrations | 11 February 2021 |
| UN/Brazil/UAE Space for Women Expert Meeting: Initiatives, challenges and opportunities for women in space | 21 – 22 October 2021 |
| Space Sustainability | |
| Publication of “Space Sustainability: Stakeholder Engagement Study” | May 2021 |
| Promoting Space Sustainability: Awareness Raising and Capacity Building in support of implementation of the LTS Guidelines: <ul style="list-style-type: none"> • Series of 3 virtual events • Publication and infographics on LTS Guidelines • Launch of website | February-July 2021 |
| Others | |
| Space diplomacy for a growing global space economy, co-hosted by New York Permanent Missions of Italy, UAE and UNOOSA – virtual event | 26 May 2021 |
| Flagship Event: The People’s Mission: Citizens in Space Exploration at EXPO 2020 Space Week, Dubai, UAE | 17 October 2021 |
| Virtual Briefing to UN Member States at UN HQ in New York on draft resolution 76/L.3 “The Space2030” Agenda: space as a driver of sustainable development”, co-organized with the Permanent Mission of Romania in New York | 13 October 2021 |

Appendix II

Planned 2022 programme activities, projects and initiatives of the Office for Outer Space Affairs

Programme on Space Applications (PSA)

| <i>Workshops, symposia, conferences</i> | <i>Location</i> | <i>Dates</i> |
|--|---------------------|----------------------|
| Industry Symposium on Dark and Quiet Skies for Science and Society, STSC 2022 | Austria | February 2022 |
| UN/China Global Partnership Workshop in Space Exploration and Innovation | Hainan, China | 24-28 April 2022 |
| UN/Ghana Conference on the use of space technology for water resource management | Ghana and virtual | 10-13 May 2022 |
| UN/Austria Symposium on Space for Climate Action (TBC) | Austria | September 2022 |
| UN/International Astronautical Federation Workshop on Space Technology for Socio-Economic Benefits | France | 15-17 September 2022 |
| United Nations/Azerbaijan Workshop on the International Space Weather Initiative | Azerbaijan | October 2022 |
| Access to Space for All Workshop | Austria and virtual | Q2 2022 |
| UN/Brazil Open Universe Workshop | Brazil | TBC |

| <i>Initiatives</i> | <i>Deadline/information</i> |
|---|--|
| Access to Space for All | |
| Announcement of opportunity: Mohammed Bin Rashid Space Centre on Payload Hosting Initiative (PHI) (1st round) | Announcement on 10 January 2022, deadline for 10 May 2022 TBD |
| Announcement of opportunity: Center of Applied Space Technology and Gravity and German Aerospace Center/DropTES (8th round) | Announcement in early 2022, deadline for mid 2022 TBD |
| Announcement of opportunity: Keldysh Institute of Applied Mathematics/ISONscope(2nd round) | Announcement in early 2022, deadline for mid 2022 TBD |
| Announcement of opportunity: European Space Agency/HyperGES (3rd round) | Announcement in late 2022, deadline for applications in early 2023 TBD |
| Webinar programme on small satellite development track of Access to Space for All | Three ½ day sessions planned |
| Webinar programme on hypergravity and microgravity track of Access to Space for All | Three ½ day sessions planned |
| Webinar programme on space exploration track of Access to Space for All | Three ½ day sessions planned |
| Webinar programme on education track of Access to Space for All | Three ½ day sessions planned |
| Space for Water | |

| | |
|---|---------------------------------|
| Space for Water Portal | Continuous content and services |
| Space for People with Disabilities | |
| Webinar | 2 sessions planned |

| Fellowships | <i>Location</i> |
|---|------------------------|
| Fellowship Programme for "Drop Tower Experiment Series" (DropTES) | Germany |
| Fellowship Programme for "the Large Diameter Centrifuge Hypergravity Experiment Series" (HyperGES) | The Netherlands |
| Fellowship Programme for "Space Studies Programme and Master of Space Studies at the International Space University" (TBC) | France/Portugal TBC |
| UN/Japan Long-term Fellowship Programme 2022 Post-graduate study on Nano-Satellite Technologies (PNST) | Japan |
| UN/Japan Cooperation Programme on CubeSat Deployment from the International Space Station Japanese Experiment Module (KiboCUBE) | Japan |

International Committee on GNSS (ICG)

| <i>Activity</i> | <i>Location</i> | <i>Dates</i> |
|--|----------------------|-----------------------|
| Training Course on Global Navigation Satellite Systems | Nepal (Hybrid) | 11-14 January 2022 |
| Training Course on Global Navigation Satellite Systems for Policy and Decision Makers | Virtual | 21 January 2022 |
| African Workshop on Global Navigation Satellite Systems and Space Weather | Morocco | 14 – 25 March 2022 |
| Reference Frame in Practice: Technical Seminar | Poland | 9 – 10 September 2022 |
| African Capacity Building Workshop on Space Weather Effects on GNSS | Italy | 5 – 6 September 2022 |
| International Workshop on Machine Learning for Space Weather: Fundamentals, Tools and Future Prospects | Argentina | 3 – 14 October 2022 |
| 16 th Meeting of the International Committee on Global Navigation Satellite Systems | United Arab Emirates | 2 – 7 October 2022 |

United Nations Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER)

| <i>Activity</i> | <i>Location</i> | <i>Dates</i> |
|---|-----------------|--------------|
| UN-SPIDER/DLR/International Charter Space and Major Disasters/ZFL Workshop on procedures employed by project managers in case of activations of the International Charter | Bonn | May 2022 |

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|---|------------------|---------------|
| 3 rd International Multi Hazard Early Warning Conference, co-organized by the International Network on Multi Hazard Early Warning Systems (IN-MHEWS) | Bali, Indonesia | May 2022 |
| UN-SPIDER/ICDO/ASAL/EMERCOM/ROSCOSMOS Western Africa Regional Expert Meeting | Algeria | July 2022 |
| Technical Advisory Support to Malawi and Niger as part of the project with the UN Technology Bank | Malawi and Niger | Q2 to Q4 2022 |
| UN-SPIDER Latin America Regional Expert Meeting | Virtual | Q3 2022 |
| UN-SPIDER/ZFL Quarterly Webinars for Africa | Virtual | Q1 to Q4 2022 |
| Implementation of Flood Guide project with Copernicus GLOFAS, Airbus Defense and Space and ZFL in Ghana, Guatemala, Nigeria, Peru, and South Africa | Virtual | Q1 to Q4 2022 |

Capacity-building in space law and policy

| <i>Activity</i> | <i>Location</i> | <i>Dates</i> |
|--|------------------|--------------------|
| UN Space Law Conference | Virtual + Chile | Q2 2022 |
| United Nations Technical Advisory Mission to Rwanda | Virtual | 19-21 January 2022 |
| United Nations Technical Advisory Mission to Asia Pacific Region | Virtual | 24-26 January 2022 |
| United Nations Technical Advisory Mission during African Space Week 2022 | Virtual | September 2022 |
| United Nations Technical Advisory Mission to African Region | Luxembourg (TBC) | Q4 2022 |

Inter-agency coordination

| <i>Activity</i> | <i>Location</i> | <i>Dates</i> |
|--|-----------------|--------------|
| UN-Space meeting and open informal session | Indonesia | Q3 2022 |

Secretariat of the Space Mission Planning Advisory Group (SMPAG) and other capacity-building activities in the area of near-Earth Objects and planetary defence

| <i>Activity</i> | <i>Location</i> | <i>Dates</i> |
|--|-----------------|----------------------|
| 18th Space Mission Planning Advisory Group (SMPAG) Meeting | Vienna, Austria | 9 - 10 February 2022 |
| 19th Space Mission Planning Advisory Group (SMPAG) Meeting | TBC | Q3 2022 |
| SMPAG First hypothetical impact threat exercise | Virtual | Q1 to Q4 2022 |

Regional Centres

| | <i>Location</i> |
|---|------------------|
| Centre for Space Science and Technology Education in Asia and the Pacific (CSSTEAP) | New Delhi, India |
| African Regional Centre for Space Science and Technology Education in French Language (CRASTE-LF) | Rabat, Morocco |
| African Regional Centre for Space Science and Technology Education in English Language (ARCESSTE-E) | Ile-Ife, Nigeria |
| Regional Centre for Space Science and Technology Education in Latin America (CRECTEALC) | Puebla, Mexico |
| Regional Centre for Space Science and Technology Education for Western Asia (RCSSETWA) | Amman, Jordan |
| Regional Centre for Space Science and Technology Education in Asia and the Pacific (RCSSTEAP) | Beijing, China |

Awareness-raising and Outreach

| <i>United Nations/International Days and Anniversaries</i> | <i>Dates</i> |
|--|-------------------|
| International Day of Women and Girls in Science | 11 February 2022 |
| International Women's Day | 8 March 2022 |
| World Water Day | 22 March 2022 |
| International Day of Human Space flight | 12 April 2022 |
| World Day to Combat Desertification and Drought | 17 June 2022 |
| International Asteroid Day | 30 June 2022 |
| International Moon Day | 20 July 2022 |
| International Youth Day | 12 August 2022 |
| World Space Week | 4-10 October 2022 |
| International Day for Disaster Reduction | 13 October 2022 |
| International Day of Persons with Disabilities 2021 | 21 December 2022 |

| <i>Exhibitions</i> | <i>Location</i> | <i>Dates</i> |
|---|--------------------|--------------|
| TBA | | |
| <i>Publications</i> | <i>Symbol/Date</i> | |
| UNOOSA 2021 Annual Report | June 2022 | |
| Preparing for an 8 Billion World | | |
| International cooperation in the area of near-Earth objects and disaster preparedness | | |

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|--|--|
| GNSS Spectrum Protection and Interference Detection and Mitigation | |
|--|--|

| <i>Other activities</i> | <i>Location</i> | <i>Dates</i> |
|--|------------------------|----------------------------|
| World Space Forum | Austria | Q4 |
| Space4Women Expert Meeting | Daejeon, South Korea | 16-19 August 2022 |
| Space4Youth Competition | Virtual | May-July 2022 |
| UN / Portugal Conference on Space Traffic Management and Global Governance | Portugal | Q4 |
| Awareness Raising and Capacity Building related to the implementation of the LTS Guidelines Project - Interviews with Member States and publication of stakeholders' study report. | Virtual | November 2021 - March 2022 |