

CHECK AGAINST DELIVERY

Sixtieth session of the Scientific and Technical Subcommittee
of the Committee on the Peaceful Uses of Outer Space
Vienna, 6-17 February 2023

STATEMENT BY NIKLAS HEDMAN

ACTING DIRECTOR

UNITED NATIONS OFFICE FOR OUTER SPACE AFFAIRS

Chair, Distinguished Delegates,

On behalf of the Office for Outer Space Affairs (UNOOSA), and in my capacity as the Acting Director, I would like to welcome you all to the sixtieth session of the Subcommittee. Over six decades, the Scientific and Technical Subcommittee has remained critical and relevant for space exploration and international cooperation.

Space is rising-up on the international agenda, and we continue to witness growing engagement 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 has grown to 102 States. We also have 4 new observer organizations, bringing their number to more than 50. This encouraging trend in the membership of the Committee demonstrates its relevance to the creation of the global governance of outer space activities; the importance of international cooperation; as well as strengthened multilateralism in outer space activities.

Chair, Distinguished Delegates,

With the global space economy now reaching the \$469bn mark, it's clear that space drives socio-economic development here on Earth.

Last year, we marked several important milestones, such as the completion of the Tiangong space station, the successful launch of NASA's Artemis I Mission, the deployment of the James Webb Space Telescope, the launch of the DART mission to redirect an asteroid's trajectory, and the very first International Moon Day. We were also able to celebrate the 55th anniversary of the Outer Space Treaty and 65 years since the launch of the very first satellite Sputnik 1.

In 2022, the Office for Outer Space Affairs continued to bring the benefits of space to everyone with activities leveraging the role of space in policy- and decision-making processes, and in sustainable development, including within the United Nations system.

UNOOSA's responsibilities continue to be 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 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.

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. In the Annex to this statement, delegations will find highlights of activities and actions for the year 2022, and a number of planned activities for the year 2023. You will find this statement, and annex, on the STSC homepage.

Let me highlight some of the success stories of our capacity-building over the last year. The Access to Space for All initiative continued to enable access to unique opportunities in collaboration with a range of partners. We selected the first awardees of the Payload Hosting Initiative; we helped Moldova and Indonesia deploy satellites from the International Space Station; we provided access to state-of-the-art research facilities, led a team from Bolivia to conduct 3D printing experiments in micro-gravity; and we continued to enable unique educational opportunities through post-graduate fellowships.

The Office's UN-SPIDER programme supported countries in the activation of the International Charter Space and Major Disasters and delivered services and advisory missions in Africa, Asia, and Latin America to strengthen their capabilities in disaster management. We launched a report on international efforts using space for climate action that offers insights that can inform future opportunities for development and collaboration. Our Space4Water Project held its first stakeholder meeting, and participatory workshop for Indigenous women on their roles and responsibilities related to water. We launched a new cohort of Space4Women Mentors and gathered the 3rd Expert Meeting to advance our work on gender equality and empowerment.

Chair, Distinguished Delegates,

UNOOSA's convening power has facilitated discussions across a range of topics in 2022. Through our Programme on Space Applications, we conducted workshops on Climate Action, Space Exploration and Innovation, Space Weather and Applications of Global Navigation Satellite Systems, to mention just few examples.

The International Committee on Global Navigation Satellite Systems (ICG)'s 16th Annual Meeting as well as several training courses and technical seminars globally helped advance cooperation in the GNSS domain. We continued our support in strengthening collaboration to protect our planet against potential impact hazard by asteroids and work done in this area by the International Asteroid Warning Network (IAWN) and the Space Mission Planning Advisory Group (SMPAG). The World Space Forum organized with our host country Austria brought together a great variety of stakeholders and focused on a pertinent topic of "Sustainability in Space for sustainability on Earth".

We have also held several briefings for Member States both in Vienna and in New York, to highlight the role of the intergovernmental processes in the Committee on the Peaceful Uses of Outer Space. The UNOOSA "Space Camp" Introductory Briefing for New Delegates received very positive feedback and interest. We will continue this new practice in 2023.

Chair, Distinguished Delegates,

Across many of our endeavours, we are greatly appreciative for, and rely on, the support of our partners.

We continued work on our project entitled: *Awareness-raising and capacity-building related to the implementation of the Guidelines for the Long-term Sustainability of Outer Space Activities (LTS Guidelines)*, funded by the United Kingdom. Drawing on dozens of interviews with diverse stakeholders, we highlighted, in a dedicated report, good practices, lessons learned, and challenges associated with implementation of the Guidelines for the Long-term Sustainability of Outer Space Activities. We hope this will prove a useful product for countries requiring capacity-building assistance and underpin the safe and sustainable use of space.

I'm also pleased to report that, as part of our key function of maintaining the UN Register of Objects Launched into Outer Space on behalf of the Secretary-General, we received 2050 satellite registrations in 2022, a record number for the fourth straight year. This streak of new records demonstrates that the space sector is growing at an unprecedented pace. These realities underscore the need to enhance registration practices. Our new initiative, called the 'The Registration Project', delivered with the support of the United Kingdom, will seek stakeholders' perspectives on their national approaches, challenges, and capacity-building needs related to licensing, authorisation, and registration of space objects. We are also planning an expert meeting on 29-30 May, here in Vienna and your national experts are all invited to join.

Chair, Distinguished Delegates,

Looking ahead, I would also like to turn your attention to some of the upcoming events, organized by UNOOSA in cooperation with a variety of partners. In April, the 8th IAA Planetary Defense Conference will be held here at the Vienna International Centre, organized together with European Space Agency and the Austrian Academy of Sciences. The 2023 UN/Austria Symposium will take place in September 2023 and focus on Space for Climate Action. And I cannot forget to mention the 5th edition of the World Space Forum that will take place in Vienna in December.

I also wish to mention our engagement in preparations for the Summit on Sustainable Development Goals, that will take place during the 78th session of the General Assembly in New York. Here, we hope to see further recognition and visibility of the "Space2030" Agenda and its implementation plan, negotiated by COPUOS and adopted by the General Assembly in 2021 in resolution 76/3, which highlights the role of Space as a driver of sustainable development. With over 20 ongoing projects and programmes, covering 15 SDGs and the four "Space2030" Pillars, UNOOSA is pleased to enhance our capacity-building opportunities and initiatives in 2023.

Ahead of the SDG Summit, and to support the realisation of the SDGs, we will be launching: 1) the ESA-funded *Space Solutions Compendium*, which is an online database of national and international projects; and 2) the European GNSS & COPERNICUS *Supporting an 8 Billion World – Building blocks for the Space2030 and the Global Agendas*: a report that addresses the role that space data and technology can play in supporting challenges derived from an 8 billion global population: 3) a new website dedicated to *Space for Climate Action* with support from the Government of Austria.

Chair, Distinguished Delegates,

In concluding, let me reassure you of our fullest support to Member States.

We look forward to the Committee's continuous growing membership and working with you in using space safely and sustainably and promoting access to the benefits of space science and technology and their applications, particularly in the interest of developing countries.

Thank you.

Annex

Legal instruments and host country agreements

Resources of the Office

Please refer to the present Annex and to document A/77/6 (Sect.6) (Programme on the peaceful uses of outer space).

HIGHLIGHTS OF SUBSTANTIVE ACTIVITIES OF THE OFFICE

Secretariat to the intergovernmental meetings of the Committee on the Peaceful Uses of Outer Space and its subsidiary bodies

Please refer to Appendix I and II to the present Annex

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.105/1270.

International Committee on Global Navigation Satellite Systems

Please refer to Appendix I and II to the present Annex and to documents A/AC.105/1276, A/AC.105/1290 and A/AC.105/1278.

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 (January – December 2022)

- Funding Agreement between the United Nations Office for Outer Space Affairs and the Asia Pacific Space Cooperation Organization – 15 February 2022.
- 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 – 16 February 2022.
- Memorandum of Understanding between the United Nations Office for Outer Space Affairs and the European Union Agency for Space Programme – 9 March 2022.
- Memorandum of Understanding between the United Nations Office for Outer Space Affairs and the Asian Institute of Technology regarding the Regional Support Office in Thailand – 17 March 2022.
- Funding Agreement between the United Nations Office for Outer Space Affairs and the Secure World Foundation on the Space Law for New Space Actors Project – 2 June 2022.
- Financial Exchange of Letters between the United Nations Office for Outer Space Affairs and Japan on the Space Law for New Space Actors Project – 6 June 2022.
- Memorandum of Understanding between the United Nations Office for Outer Space Affairs and the Canadian Space Agency on Space4Women – 23 June 2022.
- Charter on the Establishment for Space for Climate Observatory - 27 June 2022
- Financial Exchange of Letters between the United Nations Office for Outer Space Affairs and Austria on Space4Climate– 18 July 2022.
- Financial Exchange of Letters between the United Nations Office for Outer Space Affairs and Israel on Space 4Women project– 30 August 2022.
- Financial Exchange of Letters between the United Nations Office for Outer Space Affairs and France on the Space Law for New Space Actors Project – 1 September 2022.
- Memorandum of Understanding between the United Nations Office for Outer Space Affairs and the Space Generation Advisory Council on Space4youth Competition – 14 October 2022.
- United Nations Agency to Agency Contribution Agreement between the United Nations Office for Outer Space Affairs and the United Nations Development Programme on Space Economy – 24 November 2022.
- Grant Funding Agreement between the United Nations Office for Outer Space Affairs and the United Kingdom Space Agency on the Registration Project – 30 November 2022.
- Funding Agreement between the United Nations Office for Outer Space Affairs and China on UN-SPIDER Beijing Office – 13 December 2022.

- Grant Funding Agreement between the United Nations Office for Outer Space Affairs and the United Kingdom Space Agency on the Promoting Space Sustainability Project – 21 December 2022.

HOST COUNTRY AGREEMENTS (January - December 2022)

- United Nations/Ghana on 5th International Conference on the Use of Space Technology for Water Management.
- United Nations/Republic of Korea Space for Women Workshop.
- United Nations/France on the United Nations/International Aeronautical Federation Workshop.

RESOURCES OF THE OFFICE

Human Resources overview*

Funding Source	2018-2019	2020	2021	2022	2023 (as at 31 January 2023)
Regular Budget Established positions	23 (18P/5GS)	23 (18P/5GS)	23 (18P/5GS)	23 (18P/5GS)	25 (20P/5GS)
Extra-Budgetary Positions funded from voluntary cash contributions	6 (3P/3GS) 2 (Temp)	5 (2P/3GS) 3 (Temp)	5 (2P/3GS) 3 (Temp)	4 (2P/2GS) 1 (Temp)	4 (2P/2GS) 2 (Temp)
Extra Budgetary Positions funding in-kind	9 (6NRL/3JPO)	5 (2NRL/3JPO)	6 (3NRL/3JPO)	8 (6NRL/2JPO)	8 (6NRL/2JPO)
Total Staff**	40	36	37	37	39

* As at 31 December 2022 unless otherwise specified.

** Excludes consultants, contractors and interns.

Financial resources overview

Regular Budget

Thousands of United States dollars

2016-2017	2018-2019	2020	2021	2022*	2023**
7 561.8	7 558.7	3 876.6	4 026.2	4 161.9	4 757.8

*Excluding year-end adjustments

**Appropriation

Extra-budgetary

Thousands of United States dollars

	2022	Donors
Cash contributions received (excl. prior period adjustments)	1,386.5	<i>Agustin Codazzi Geographic Institute (IGAC); Airbus Defence and Space; Argentina's National Space Activities Commission (CONAE); Asia Pacific Space Cooperation Organization (APSCO); Asian Institute of Technology (AIT) Geoinformatics Centre, Thailand; AVIO s.p.a.; Ben-Gurion University of the Negev (BGU), Israel; Center for Applied Space Technology and Microgravity (ZARM), University of Bremen, Germany; China Manned Space Agency (CMSA); China Ministry of Emergency Management; China National Space Administration (CNSA); Delta State University, United States; European Commission; European Space Agency (ESA); Federal University of Santa Maria, Brazil; Centre National d'Études Spatiales (CNES); Geo-Informatics and Space Technology Development Agency (GISTDA), Thailand; German Aerospace Center(DLR); Government of Austria; Government of Azerbaijan; Government of Brazil (Brazilian Air Force); Government of Chile; Government of China; Government of France; Government of Germany; Government of Israel; Government of Japan; Government of the Republic of Korea; Government of the United States of America (Department of State); International Astronautical Federation (IAF); International Astronomical Union (IAU); International Water Management Institute (IWMI), Sri Lanka; Iranian Space Agency (ISA); Japan Aerospace Exploration Agency (JAXA); Joanneum Research Forschungsgesellschaft mbH, Austria; Keldysh Institute of Applied Mathematics of the Russian Academy of Sciences (KIAM RAS); Korea Aerospace Research Institute (KARI); Kyushu Institute of Technology (KYUTECH), Japan; Mohammed Bin Rashid Space Centre (MBRSC), United Arab Emirates; National Space Research and Development Agency (NASRDA); National Space Research Institute of Brazil (INPE); Philippine Space Agency (PhilSA); Prince Sultan bin Abdulaziz International Prize for Water (PSIPW); Secure World Foundation (SWF); Technical University of Graz, Austria; United Kingdom Space Agency (UKSA); and University of Energy and Natural Resource (UENR), Sunyani, Ghana</i>
In-kind Contributions	1 334.1*	

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

Secretariat to the intergovernmental meetings of the Committee on the Peaceful Uses of Outer Space and its subsidiary bodies

Activity	Location	Dates
59 th session of the Scientific and Technical Subcommittee	Vienna, Austria/hybrid	7-18 February 2022
61 st session of the Legal Subcommittee	Vienna, Austria/hybrid	28 March – 8 April 2022
65 th session of the Committee on the Peaceful Uses of Outer Space	Vienna, Austria/hybrid	1-10 June 2022

77th Session of the General Assembly

Activity	Location	Dates
Meeting of the Fourth Committee of the General Assembly: International cooperation in the peaceful uses of outer space	UNHQ, New York	26-31 October 2022
Joint panel of the First and Fourth Committee of the General Assembly	UNHQ, New York	29 October 2022

Briefings to Member States

Activity	Location	Dates
Briefings to Member States in preparation for the intergovernmental meetings of the Committee on the Peaceful Uses of Outer Space and its Subcommittees	Virtual	21 January 2022 14 March 2022 17 May 2022
UNOOSA Group of Friends Meeting	New York	21 February 2022
What is UNOOSA and why is it relevant for you	Vienna, Austria	9 June 2022
UNOOSA Group of Friends Meeting	Virtual	26 July 2022
UNOOSA Space Camp – Introductory Meeting for New Delegates	Vienna, Austria /Virtual	4 October 2022
Space4ourPlanet	UNHQ, New York	26 October 2022
Space for sustainable development on Earth	UNHQ, New York	27 October 2022

Programme on Space Applications (PSA)

<i>Workshops, symposia, conferences</i>	<i>Location</i>	<i>Dates</i>
United Nations/Austria Symposium on Space Applications for Sustainable Development: Space for climate action, experiences and best practices in mitigating and adapting to climate change and supporting sustainability on Earth	Graz, Austria	13-15 September 2022
29th United Nations/International Astronautical Federation Workshop on Space Technology for Socio-Economic Benefits: “Access to Space for All: Bridging the Space Divide	Paris, France	16-17 September 2022
United Nations/Azerbaijan Workshop on the International Space Weather Initiative: The Sun, Space Weather and Geosphere	Baku, Azerbaijan	31 October – 4 November 2022
United Nations/China Global Partnership Workshop in Space Exploration and Innovation	Hainan, China	21-24 November 2022
United Nations International Meeting on the Applications of Global Navigation Satellite Systems,	Vienna, Austria	5-9 December 2022

<i>Initiatives</i>	<i>Information</i>
Access to Space for All	
Announcement of opportunity: Mohammed Bin Rashid Space Centre/PHI (1st round)	Announced on 25 January 2022, deadline for applications 17 April 2022
Announcement of opportunity: European Space Agency/HyperGES (2nd round)	Announced on 16 May 2022, deadline for applications 28 November 2022
Announcement of opportunity: Kyushu Institute of Technology/PNST (2023 round)	Announced on 1 August 2022, deadline for applications 9 January 2023
Announcement of opportunity: Center of Applied Space Technology and Microgravity and the German Aerospace Center/DropTES(8th round)	Announced on 14 November 2022, deadline for applications 22 January 2023
Webinar/hybrid programme on small satellite development track of Access to Space for All	Five sessions (1/2 day)
Webinar programme on hypergravity and microgravity track of Access to Space for All	Three sessions (1/2 day)
Space for Water	
United Nations/Ghana/Prince Sultan bin Abdulaziz International Prize for Water Fifth International Conference on the Use of Space Technology for Water Management	Accra, Ghana 10 - 13 May 2022
Participatory workshop for Indigenous women on their roles and responsibilities related to water	Vienna, Austria 26 October 2022
First Space4Water Stakeholder Meeting	Vienna, Austria, 27-28 October 2022
Space for Water Portal	Continuous content and services development

International Committee on GNSS (ICG)

<i>Activity</i>	<i>Location</i>	<i>Dates</i>
Training Course on Global Navigation Satellite Systems	Pokhara, Nepal	11-14 January 2022
Training Course on Global Navigation Satellite Systems for Policy and Decision Maker	Virtual	21 January 2022
International Space Weather Initiative Steering Committee Meeting	Vienna, Austria	11 February 2022
Regional Workshop on Global Navigation Satellite Systems and Space Weather	Rabat, Morocco	9 – 13 May 2022
25 th Meeting of the ICG Providers' Forum	Vienna, Austria	6 June 2022
ICG Subgroup Work Package “Expansion of the Global Navigation Satellite Systems Space Service Volume to Support Lunar Operations” Meeting	Vienna, Austria	8 June 2022
ICG Space Use Subgroup Meeting	Vienna, Austria	9 June 2022
Session on Ionospheric Effects on Global Navigation Satellite System Augmentation Systems at Beacon Satellite Symposium	Boston, United States of America	2 August 2022
ICG Working Group on Systems, Signals and Services Intersessional Meeting	Vienna, Austria	16 – 18 August
Technical Seminar on Reference Frame in Practice at the International Federation of Surveyors Working Week	Warsaw, Poland	10-11 September 2022
African Capacity Building Workshop on Space Weather Effects on Global Navigation Satellite Systems	Trieste, Italy	3-14 October 2022
5 th International Space Weather Initiative School for the Maghreb and Western Africa	Abidjan, Cote d'Ivoire	17-28 October 2022
16 th Meeting of the International Committee on Global Navigation Satellite Systems	Abu Dhabi, United Arab Emirates	9-14 October 2022
26 th Meeting of ICG Providers' Forum	Abu Dhabi, United Arab Emirates	9 and 13 October 2022
International Workshop on Machine Learning for Space Weather	Buenos Aires, Argentina	7-11 November 2022
Technical Seminar on Reference Frame in Practice at the Geodetic Reference System for Americas Meeting	Santiago, Chile	10-11 November 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>
Virtual advisory support to Malawi and Mozambique through the generation and provision of maps of flooded areas due to tropical cyclones Ana and Gombe. Support in the activation of the International Charter Space and Major Disasters at the request of the Department of Disaster Management Affairs of Malawi (DoDMA) and the National Institute for Disaster Risk Reduction of Mozambique (INGD)	Virtual	January through March 2022
3 rd International Multi Hazard Early Warning Conference, co-organized by the International Network on Multi Hazard Early Warning Systems (IN-MHEWS)	Bali, Indonesia	23 – 24 May 2022
UN-SPIDER/DLR/ Networking Session: “Bridging the gap: linking the space and disaster management communities” at the European Space Agency’s Living Planet Symposium	Bonn, Germany	25 May 2022
Institutional strengthening mission to Ghana 2022 to support the National Disaster Management Organization (NADMO) in its planning of an earthquake simulation exercise that was held in June 2022. UN-SPIDER proposed that a simulated activation of the International Charter on Space and Major Disasters be included in the exercise in order to raise awareness regarding the provision of space-based information for disaster response efforts	Accra, Ghana	9 - 11 May 2022
Technical Advisory Mission to Armenia at the request of the Ministry of Emergency Situations of Armenia with the support of experts from the Ben-Gurion University of the Negev in Israel, Delta State University and Oklahoma State University in the United States of America, the Iranian Space Agency, the Asian Institute of Technology in Thailand and the Group on Earth Observations	Yerevan, Armenia	27 June - 01 July 2022
Virtual training course for the members of the Interinstitutional Geospatial Team for Disaster Management (EIGEO) of the Dominican Republic at the request of the National Emergency Commission	Virtual	26 – 27 July 2022
Institutional strengthening mission to Nigeria, At the request of, and in coordination with, the National Space Research and Development Agency (NASRDA), with the support of experts from the Centre for Remote Sensing of Land Surfaces of the University of Bonn (ZFL) and the National Disaster Management Organization of Ghana (NADMO). The mission included a three-day workshop, institutional visits and meetings.	Abuja, Nigeria	12 – 16 September 2022
Technical advisory mission to the Philippines at the request of the Philippine Space Agency, and in coordination with the National Disaster Risk Reduction and Management Council of the Philippines. Carried out with support of experts from the University of Central Lancashire, UK; Saint Xavier University, USA; the Asian Institute of Technology, Thailand; the Group on Earth Observations; the Continuum	Manila, Philippines	26 – 30 September 2022

Planning and Development Trust of India; the Pacific Disaster Centre, the Indian Institute of Remote Sensing; the International Water Management Institute and BlackSky Technology		
Regional workshop on assessing drought risks and launch of the South Asia Drought Monitoring System	Gujarat, India	31 August – 02 September 2022
Virtual support to activate the International Charter Space and Major Disasters due to floods in the Dominican Republic triggered by Hurricane Fiona at the request of the National Emergency Commission (CNE)	Dominican Republic	September 2022
Virtual support to activate the International Charter Space and Major Disasters due to floods and landslides in Honduras at the request of the Permanent Contingencies Commission (COPECO)	Honduras	October 2022
Virtual support to activate the International Charter Space and Major Disasters due to floods in various regions of the Philippines on behalf of the Philippine Space Agency, at the request of the National Disaster Risk Reduction and Management Council, due to Tropical Storms Megi (April 2022), Ma-On (August 2022), and Tropical Cyclones Noru (September 2022) and Nalgae (October 2022)	Philippines	April to October 2022
Second annual workshop on combating disaster and climate change in arid regions using space-based and geospatial technologies	Cairo, Egypt	5 – 8 November 2022
Annual meeting of UN-SPIDER Regional Support Offices attended by representatives of 17 Regional Support Offices and representatives of other institutions and universities	Vienna, Austria	14 – 16 November 2022
Technical advisory mission to Paraguay at the request of the Space Agency of Paraguay (AEP) with the support of experts from the National Commission on Space Activities of Argentina, the National Institute for Space Research of Brazil, the Agustín Codazzi Geographic Institute of Colombia and the Federal University of Santa Maria of Brazil.	Asuncion, Paraguay	21 – 25 November 2022
United Nations Workshop on Space-based Technologies for Disaster Risk Reduction co-organized by the Office for Outer Space Affairs and the Economic and Social Commission for Asia and the Pacific (ESCAP), in collaboration with the Ministry of Emergency Management of China, the Asia-Pacific Space Cooperation Organization, the Geo-Informatics and Space Technology Development Agency of Thailand and the Asian Institute of Technology.	Bangkok, Thailand	7 - 9 December 2022
Regional training course, supported by the Asia-Pacific Space Cooperation Organization (APSCO), held in the premises of the Asian Institute of Technology (AIT)	Bangkok, Thailand	10 - 15 December 2022
Technical advisory support to Mongolia through the provision of a national consultant to the National Emergency	Ulaanbaatar, Mongolia	February to September 2022

Management Agency of Mongolia for a period of five and a half months		
Technical advisory support to Sri Lanka through the provision of a national consultant to the Disaster Management Centre for a period of one month	Colombo, Sri Lanka	January 2022

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

<i>Activity</i>	<i>Location</i>	<i>Dates</i>
18th SMPAG Meeting	Virtual	9-10 February 2022
19 th SMPAG Meeting	Virtual	19-20 October 2022

Capacity-building in space law and policy

<i>Activity</i>	<i>Location</i>	<i>Dates</i>
United Nations Technical Advisory Mission to Rwanda	Virtual	19-20 January 2022
United Nations Technical Advisory Mission to the Asia and the Pacific region	Virtual	24-26 January 2022
United Nations Technical Advisory Mission to Chile – Raising awareness in FIDAE	Hybrid	6-8 April 2022
United Nations/Chile Conference on Space Law and Polity: Governance and Legal Perspectives on Space activities in Earth Orbit and Beyond	Virtual	10-12 May 2022
United Nations Technical Advisory Mission to the Philippines	Manila, Philippines	18-20 October 2022
United Nations Technical Advisory Mission to Malaysia	Kuala Lumpur, Malaysia	21-23 November 2022
United Nations Technical Advisory Mission to African region	Vienna, Austria	6-8 December 2022
United Nations Technical Advisory Mission to Thailand	Virtual	15-18 December 2022

Inter-agency coordination

<i>Activity</i>	<i>Location</i>	<i>Dates</i>
UN-Space:41st annual session of the Inter-agency Meeting on Outer Space Activities	Bangkok, Thailand	7-8 December 2022
16th Open Session of UN-Space Joint UN-Space – UN-SPIDER Workshop High Level Panel on Space-based Technologies for Disaster Risk Reduction	Bangkok, Thailand	9 December 2022

17th Open Session of UN-Space UN-Space session - World Space Forum Session IV: Space in the United Nations	Virtual	14 December 2022
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World Space Forum

<i>Activity</i>	<i>Location</i>	<i>Dates</i>
United Nations/Austria World Space Forum “Sustainability in Space for sustainability on Earth”	Virtual	13-15 December 2022

Regional Centres

	<i>Location</i>
Centre for Space Science and Technology Education in Asia and the Pacific (CSSTEAP)	Dehradun, 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 (RECTEALC)	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	21 December 2022

<i>Exhibitions</i>	<i>Location</i>	<i>Dates</i>
Space4Our Planet exhibit at the Living Planet Symposium in Bonn	Bonn, Germany	May 2022
Space4Our Planet exhibit at Muse Science Museum	Trento, Italy	June 2022
Space4Our Planet exhibit at French museum Cité de l'Espace	Toulouse, France	February – August 2022
UNOOSA booth at the 73rd International Astronautical Congress	Paris, France	18-22 September 2022
Space4Our Planet exhibit at the UN Headquarters	New York, USA	October – November 2022

<i>Publications</i>	<i>Symbol/Date</i>
Publication of “Awareness-raising and capacity-building related to the implementation of the Guidelines for the Long-term Sustainability of Outer Space Activities (LTS Guidelines) Stakeholder Study Report”	May 2022 Available here
Access to Space for All Initiative	V.22-02547/ June 2022 Available here
UNOOSA 2021 Annual Report	ST/SPACE/80 June 2022 Available here
International Efforts Using Space for Climate Action	V.22-10613/ November 2022 Available here
Space-related activities within the United Nations system	ST/SPACE/84 November 2022 Available here

<i>Other activities</i>	<i>Dates</i>
Space4Youth	
Launch of 4 th Space4Youth Competition	November 2022
Space for Persons with Disabilities	
“Sonification: a tool for research, outreach and inclusion in space sciences” online event	17 November 2022 Virtual
Space4Women	
Launch of UNOOSA Space4Women 3 rd mentorship cycle	December 2022
UN/Republic of Korea Space4Women Expert Meeting	Daejeon, Republic of Korea, 16-19 August, 2022
Space Sustainability	
40+ anonymized interviews with States members of COPUOS and international intergovernmental organizations; Website management	Q1 2022; Continuous

Overview of UNOOSA's Projects, Programmes, and Initiatives ("one-pagers")	September 2022 Available here
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Appendix II

Planned 2023 programme activities, projects and initiatives of the Office for Outer Space Affairs

Secretariat to the intergovernmental meetings of the Committee on the Peaceful Uses of Outer Space and its subsidiary bodies

Activity	Location	Dates
60 th session of the Scientific and Technical Subcommittee	Vienna, Austria/hybrid	6 - 17 February 2023
62 nd session of the Legal Subcommittee	Vienna, Austria/hybrid	20 – 31 March 2023
66 ^h session of the Committee on the Peaceful Uses of Outer Space	Vienna, Austria/hybrid	31 May - 9 June 2023

78th Session of the General Assembly

Activity	Location	Dates
Summit on SDGs	UNHQ, New York	Q3 2023
Meeting of the Fourth Committee of the General Assembly: International cooperation in the peaceful uses of outer space	UNHQ, New York	Q3 2023

Programme on Space Applications (PSA)

<i>Workshops, symposia, conferences</i>	<i>Location</i>	<i>Dates</i>
UN/International Astronautical Federation Workshop on Space Technology for Socio-Economic Benefits	Azerbaijan	29 September- 1 October 2023
Access to Space for All Expert Meeting	Austria and virtual	Q2 2023 TBC
UN/Austria Symposium on Space for Climate Action	Austria	12-14 September 2023
United Nations/Finland Workshop on the Applications of Global Navigation Satellite Systems	Helsinki, Finland	23 – 26 October 2023

<i>Initiatives</i>	<i>Deadline/information</i>
Access to Space for All	
Announcement of opportunity: Japan Aerospace Exploration Agency/KiboCUBE (7th round)	Announcement in mid 2023, deadline for end 2023 TBD

Announcement of opportunity: Center of Applied Space Technology and Gravity and German Aerospace Center/DropTES (9th round)	Announcement in mid 2023, deadline for early 2024 TBD
Announcement of opportunity: Keldysh Institute of Applied Mathematics/ISONscope(2nd round)	Announcement in mid 2023, deadline for end 2023 TBD
Announcement of opportunity: European Space Agency/HyperGES (3rd round)	Announcement in mid 2023, deadline for early 2024 TBD
Webinar/hybrid 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	Four 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	
Second and Third Space4Water Stakeholder Meetings	Vienna, Austria, and online, Q 2 and Q4 2023
Space for Water Portal	Continuous content and services
Space for People with Disabilities	
Webinar	2 sessions planned

International Committee on GNSS (ICG)

<i>Activity</i>	<i>Location</i>	<i>Dates</i>
Training Course on Global Navigation Satellite Systems	Pokhara, Nepal	3 - 7 January 2023
Training Course on Global Navigation Satellite Systems for Policy and Decision Makers	Virtual	9 January 2023
International Space Weather Initiative Steering Committee Meeting	Vienna, Austria	10 February 2023
International Space Weather Initiative School	Trieste, Italy	15 – 19 May 2023
Technical Seminar on Reference Frame in Practice at the International Federation of Surveyors Working Week	Orlando, United States of America	27 – 28 May 2023
27th Meeting of the ICG Providers' Forum	Vienna, Austria	5 June 2023
Eastern Africa Capacity Building Workshop on Space Weather and Low-Latitude Ionosphere	Malindi, Kenya	10 – 19 October 2023
17 th Meeting of the International Committee on Global Navigation Satellite Systems	Spain	2 – 6 October 2023
28th Meeting of the ICG Providers' Forum	Spain	1 and 5 October 2023

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 advisory support and training, TAM follow-up in Nepal, jointly with AIT and ESCAP	Kathmandu, Nepal	6 to 9 February 2023
UN-SPIDER/DLR/GLOFAS/ZFL International Training Workshop: “Space Technologies for Flood Management”	Bonn, Germany	20 to 22 February 2023
UN-SPIDER/DPC Training Course on Space Technologies for Disaster Management (TBC)	San Salvador	20 to 24 March 2023
UN-SPIDER needs assessment in Kyrgyzstan	Bishkek	21 to 23 Feb. 2023
Institutional Strengthening Missions to Malawi, Mozambique and South Africa	Lilongwe, Maputo and Pretoria, South Africa	April, May 2023
UN-SPIDER capacity strengthening in Bangladesh, TAM follow-up	Dhaka, Bangladesh	Q2, 2023
UN-SPIDER Annual RSO meeting 2023	Vienna, Austria	June 2023
UN-SPIDER/International Charter Space and Major Disasters / ZFL Training on the use of the Charter Mapper	Bonn, Germany	July 2023
UN-SPIDER Virtual Expert Meeting for Latin America and the Caribbean	Virtual	Q3, 2023
UN-SPIDER institutional strengthening missions in Asia-Pacific region, locations TBC	Various	Q3 – Q4, 2023
Institutional Strengthening Mission to Algeria	Algiers, Algeria	Q3, 2023
UN-SPIDER/International Charter Space and Major Disasters / CONAE Training on the Charter Mapper for LAC	Buenos Aires, Argentina	Q4, 2023
UN-SPIDER Beijing International Conference	Beijing, China	Q4 (tbc)
Regional training course, supported by the Asia-Pacific Space Cooperation Organization (APSCO).	Beijing, China	Q4 (tbc)

Capacity-building in space law and policy

<i>Activity</i>	<i>Location</i>	<i>Dates</i>
United Nations Conference on Space Law and Policy:	Virtual	Q3 2023
United Nations Technical Advisory Mission to Kenya	Nairobi, Kenya	April 2023
Expert event on the Registration of Objects Launched into Outer Space	Vienna, Austria	29-30 May 2023

United Nations Technical Advisory Mission to APSCO member states	Vienna, Austria	June 12-14 2023
United Nations Technical Advisory Mission to Chile	Santiago, Chile	October 2023

Inter-agency coordination

<i>Activity</i>	<i>Location</i>	<i>Dates</i>
UN-Space meeting and open session	TBC	Q3 2023

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

<i>Activity</i>	<i>Location</i>	<i>Dates</i>
20th Space Mission Planning Advisory Group (SMPAG) Meeting	Vienna, Austria and Hybrid	8 – 9 February 2023
21st Space Mission Planning Advisory Group (SMPAG) Meeting	TBC	Q3 2023
2023 IAA Planetary Defense Conference	Vienna, Austria and Hybrid	3-7 April 2023

Regional Centres

	<i>Location</i>
Centre for Space Science and Technology Education in Asia and the Pacific (CSSTEAP)	Dehradun, 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 2023

International Women's Day	8 March 2023
World Water Day	22 March 2023
International Day of Human Space flight	12 April 2023
World Day to Combat Desertification and Drought	17 June 2023
International Asteroid Day	30 June 2023
International Moon Day	20 July 2023
International Youth Day	12 August 2023
World Space Week	4-10 October 2023
International Day for Disaster Reduction	13 October 2023
International Day of Persons with Disabilities 2021	21 December 2023

<i>Publications</i>	<i>Symbol/Date</i>
Near-Earth Objects and Planetary Defence	ST/SPACE/73/Rev.1 April 2023
UNOOSA 2022 Annual Report	ST/SPACE/81 Q2 2023
European GNSS & COPERNICUS Supporting an 8 Billion World – Building blocks for the Space2030 and the Global Agendas	ST/SPACE/85 Q2 2023
Space Technologies for Early Warning Systems	Q2 2023
Sonification: a tool for research, outreach, and inclusion in space sciences	Q2 2023
Stakeholder Study – Registration of Objects Launched into Outer Space: Good practice, lessons learned, and challenges	June 2023
5 Years of Space4Water	Q4 2023
Space2030 Agenda: space as a driver of sustainable development	Q4 2023

<i>Other activities</i>	<i>Location</i>	<i>Dates</i>
World Space Forum	Austria	Q4
Space4Women Expert Meeting	Canada	30 October – 3 November 2023 (TBC)
3 rd Space4Women Mentorship	Virtual	Conclusion in December 2023
4 th Space4Youth Competition	Virtual	Conclusion in February 2023
Awareness-raising and Capacity-building related to the Implementation of the Guidelines for the Long-term Sustainability	Virtual	Q1-Q4, 2023

of Outer Space Activities (LTS Guidelines) Project – four virtual events to be held and an e-learning to be produced.		
UNOOSA Space Camp – Introductory Meeting for New Delegates	Vienna, Austria /Virtual	Q3 2023