

Fifty-seventh session of the Scientific and Technical Subcommittee
of the Committee on the Peaceful Uses of Outer Space
Vienna, 3-14 February 2020

STATEMENT BY SIMONETTA DI PIPPO

DIRECTOR

UNITED NATIONS OFFICE FOR OUTER SPACE AFFAIRS

Madam Chair, distinguished delegates,

On behalf of the Office for Outer Space Affairs (UNOOSA), I welcome you all to the fifty-seventh session of the Subcommittee and thank you for the opportunity to address this session on the work of the Office. I congratulate you, Madam Chair, for your election and I would like to assure you of our commitment to assist you in running the meetings. At the outset, I join you in welcoming Dominican Republic, Rwanda and Singapore as new State members of the Committee, and the Moon Village Association as the newest observer organization to the Committee.

Madam Chair, distinguished delegates,

At this first meeting in the new decade, let us reflect on the legacy of the last 10 years. Looking back, there has been truly a lot worth celebrating. The completion of the International Space Station, the landing on the far side of the Moon, the orbiting of planet Mercury, discovery of water on Mars, the first pristine asteroid sample return, exploration of distant objects in our solar system, crossing the heliopause, thousands of exoplanets discovered, and of course, the first-ever image of a black hole. And this is indeed but a short-list of the great achievements in space exploration.

And the last 10 years were also very successful for the private sector. The International Space Station was for the first time re-supplied through a fully commercial mission, reusable rocket boosters are now a reality, space tourism is closer and closer to start becoming real, companies have a growing business in the launching industry, and private entities from both traditional and emerging spacefaring nations launched more satellites than ever.

The value of the commercial sector is breaking records, currently representing around 80 per cent of the whole industry. Private investments in the past four years reached highs both in size and number, dwarfing those done before 2015. Overall, space industry is worth more than \$400 billion and several analysts expect further growth, with projections for the value of the industry in trillions of dollars by 2050.

We have also witnessed a stronger recognition of the role that space infrastructure plays for industry, businesses, services and our everyday life. This growing awareness has led to proliferation in both the number and type of actors that have entered the field at a quick pace. Space has become an ever more important item on the political agenda across the world. This



is certainly one of the reasons behind the growth in the membership of the Committee on the Peaceful Uses of Outer Space.

From 70 States at the beginning of the last decade, to 95 today – This accelerating growth testifies the increasing importance of space for UN Member States as well as the importance they assign to this unique intergovernmental platform.

The membership of the Committee also reflects that space is becoming more prominent all around the world as it is representative of major space-faring nations, emerging space nations and nations so far possessing no space capabilities.

And the work of the Committee is also very well recognized in the broader space community. With 42 observer organizations, comprising of 11 international inter-governmental organizations and 31 international non-governmental organizations, it is evident that space stakeholders truly value multilateralism and cooperation.

But what is perhaps the most notable change, is the rapid growth in the number of functional objects launched to outer space. In total, more than 9,100 found their way to the Earth's orbit and beyond since 1957, however, more than 30 percent were launched in the last decade alone. With the upcoming of megaconstellations, thousands more satellites will orbit the Earth in not so distant future. We are already witnessing the new trend from the past decade to continue, as only in the month of January 2020, more satellites were launched than in any year between 2000 and 2010.

These developments are certainly a positive sign for the success of the space sector. Yet, we cannot forget that many space objects stay in orbit for years, and in some cases decades. At the UN level, stakeholders have warned about the issue of space debris since the 1970s and while addressing this problem has been one of the priorities, its growing population is making the case for a new approach.

One thing has become more obvious than ever, space is a limited resource – unregulated space activities might sooner or later lead into problems. The potential risks for conjunctions of functional spacecrafts with other objects are growing and the damage to one object could cause knock-on effects that would impact the wider community. In the worst-case scenario, collisions may render orbits unusable for decades.

Growing number of satellites also represents a challenge to the registration practices. The obligation to register satellites with the UN Secretary-General through the Office for Outer Space Affairs stems from international space law, and in particular the Registration convention, and it represents the means of identifying which States bear international responsibility and liability for space objects. In the quick-paced environment that space has become in recent years, registration practices require improvements.

Madam Chair, distinguished delegates,

Space has become an indispensable tool for the modern society. Navigation, communication, financial services, weather prediction – this is but a short-list of what space assets offer us on a daily basis. Their positive impact is so significant, that we cannot risk losing the benefits it offers, not even for a short-period of time.

As we enter 2020, we also enter what has been dubbed around the world as the Decade of Action. It is the next 10 years that will decide the future of humanity. In 2030, we will either be successful and celebrate, or will be forced to face the peril of inaction and its impact inflicted upon the planet, its people and the environment. To make the right decisions, adopt the right policies, and implement tailored and effective governance, authorities around the world must be able to harness the power of new technologies. In this regard, the transformative nature of space makes it truly a game-changer.

A fact that was repeated several times but is always important to highlight is that around 40% of the 169 targets behind the 17 Sustainable Development Goals (SDGs) benefit from geo-location and earth-observation. Telecommunication satellites would likely add additional 10%. All in all, half of the targets are in one way or another profiting from space assets. Precision farming, monitoring disease outbreaks, facilitating access to clean water, identifying locations for renewable energy farms, managing disasters, combating crime and maintaining international peace and security – the achievement of the SDGs without space is hardly possible.

And without satellites we would be essentially blind in understanding our planet, its atmosphere and climate, and the changes that occur in the massive yet sensitive global system. And, we cannot forget that more than half of the Essential Climate Variables are dependent on the hardware in orbit.

With the global space sector evolving rapidly across political, legal and technical aspects, the United Nations needs to keep pace. Considering the expected future challenges to maintaining effective governance of space activities, I wish to reiterate the following strategic priority areas for UNOOSA in 2020 and beyond:

- 1) Continuing and strengthening support to Member States, as the gateway to space in the United Nations, including through the fundamental role as substantive Secretariat of COPUOS and its Subcommittees;

- 2) Expanding delivery and services on space-based information for disaster management, particularly through the UN-SPIDER programme. The management of natural and technological disasters in all their phases benefits considerably from space assets through weather forecasting and modelling, early warnings, reliable communication, assessing damages, facilitating first-aid delivery, or locating those in need;

- 3) Working with Member States to ensure that technical, legal and policy frameworks are maintained and fit for purpose in light of the continuous changes in the space domain. Targeted capacity-building in space law and policy is a significant part of that effort and to this end, UNOOSA established a dedicated project on space law and policy for new space actors. The project is developing at a quick pace with growing support and contributions from across the spectrum of space stakeholders. The diplomatic efforts will also reflect the need to promote responsible behaviour as one of the key means to ensure that space activities remain safe, secure and sustainable; and

- 4) Enhancing advocacy to deliver strategic coordination and awareness on ‘Space4SDGs’ and continue to increase access to the benefits of space activities as one of the key mandates of UNOOSA. In this regard, we are making a real difference with our dedicated capacity-building activities through the Programme on Space Applications, including the flagship Access to Space for All initiative. Meeting the targets of the 2030 Agenda for

Sustainable Development will require a stronger role of science, technology and innovations (STI) and a coordinated approach in their use. Space as an innovative tool helps us in both defining country's needs and developing targeted and tailored solutions. Space-related infrastructure, data, information and integrated services hence must become the essential and integral part of a society-wide effort to achieve the SDGs, with having access to them as a pre-condition for the latter.

And today, with the challenges we face as a species, it is more than obvious that unilateral actions can take us not just so far. International cooperation and multilateralism are the key on the path to the future we want for next generations. UNOOSA, as a broker of international cooperation, has employed a proactive approach in nurturing existing partnerships and developing new ones, for a better world.

We now work with an ever-increasing number of partners, from governmental authorities and space agencies, to international intergovernmental and non-governmental organizations, academia and space industry and private sector. The multi-stakeholder approach to those partnerships is evident and I wish to express my sincere gratitude to all partners working with the Office in expanding the access to space benefits for all.

Madam Chair, distinguished delegates,

Against this overall context, I wish to inform delegations that UNOOSA has been vested with a new organizational positioning in the United Nations system. The new Secretary-General's bulletin ST/SGB/2020/1 of 13 January 2020 establishes the organization of the Office for Outer Space Affairs as a dedicated Office of the United Nations Secretariat. This new SGB determines the future of UNOOSA as the gateway to space in the United Nations system and provides the administrative setting for our continued role as a capacity-builder, convener, and a broker of international cooperation in the peaceful uses of outer space.

The SGB also contains several new provisions, including the creation of new sections to underline their strategic importance, namely the Executive secretariat of the International Committee on Global Navigation Satellite Systems, and the UN Platform for Space-based Information for Disaster Management and Emergency Response sections, both now already reporting to the Director of the Office, together with the more consolidated sections.

Madam Chair, distinguished delegates,

In concluding, let me reassure you of the full support of the Office for Outer Space Affairs. We stand ready, as always, to support Member States in space science, technology, law and policy, thus covering the full spectrum of global governance of outer space affairs.

Thank you.

Annex

HIGHLIGHTS OF SUBSTANTIVE ACTIVITIES OF THE OFFICE

United Nations Programme on Space Applications

Please refer to Appendix I and II to the present document, as well as to documents and reports referenced in the annotated provisional agenda in A/AC.105/C.1/L.383.

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 document, and to document A/AC.105/1212.

International Committee on Global Navigation Satellite Systems

Please refer to Appendix I and II to the present document, and to documents A/AC.105/1213 and A/AC.105/1217.

Secretariat to the Space Mission Planning Advisory Group (SMPAG)

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

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

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

Cooperation Agreements

The following agreements have been negotiated and signed between the Office for Outer Space Affairs and various parties in 2019:

- Memorandum of Understanding between the United Nations and the International Civil Aviation Organization (2 December 2019)
- Funding Exchange of Letters between the United Nations Office for Outer Space Affairs and the Chilean Air Force (28 November 2019)
- Memorandum of Understanding between the United Nations and the Mohammed bin Rashid Space Centre (18 November 2019)
- Funding Agreement between the United Nations and the Government of Luxembourg (12 November 2019)

- Funding Letter for the Contribution from the European Commission to the ICG for the year 2020 (11 November 2019)
- Agreement between the United Nations and the Centre for Space Science Technology Education in Asia and the Pacific (CSSTEAP), affiliated to the United Nations (8 November 2019)
- Funding Agreement between the United Nations and Sierra Nevada Corporation (7 November 2019)
- Agreement between the United Nations and Airbus Defence and Space GmbH (24 October 2019)
- Funding Agreement between the United Nations and the Secure World Foundation (14 October 2019)
- Letter of Agreement between the United Nations Office for Outer Space Affairs and the United States National Oceanic and Atmospheric Administration for Funding Secretariat Support Services to the International Committee on Global Navigation Satellite Systems (ICG) – Option 1 (30 September 2019-31 August 2020) (30 September 2019)
- Agreement between the United Nations and Avio S.p.A. (25 July 2019)
- Agreement between the United Nations and the University of Bonn (18 June 2019)
- Memorandum of Understanding between the United Nations and the Ministry of Digital Development, Defence and Aerospace Industry of the Republic of Kazakhstan (14 June 2019)
- Memorandum of Understanding between the United Nations and the Keldysh Institute of Applied Mathematics, the Russian Academy of Sciences (14 June 2019)
- Agreement between the United Nations and the Regional Centre for Space Science and Technology Education for Latin America and the Caribbean (CRECTEALC), affiliated to the United Nations (5 June 2019)
- Memorandum of Understanding between the United Nation and the European Space Agency on Cooperation for the Achievement of the United Nations Sustainable Development Goals (24 May 2019)
- Joint Statement by the United Nations Office for Outer Space Affairs and the European Space Agency on Space Debris (24 May 2019)
- Memorandum of Understanding between the Department of State Bureau of Oceans and International Environmental and Scientific Affairs and United Nations Office for Outer Space Affairs on Providing Secretariat Support to the International Committee on Global Navigation Satellite Systems (21 May 2019)
- Agreement between the United Nations and the China National Space Administration Concerning Cooperation on China's Lunar and Deep Space Exploration (24 April 2019)
- Memorandum of Understanding between the United Nations and Asteroid Foundation (21 March 2019)
- Memorandum of Understanding between the United Nation and the European Space Agency on the Use of the ESTEC Large Diameter Centrifuge (15 February 2019)
- Memorandum of Understanding between the United Nations and the Space Generation Advisory Council (15 February 2019)

Host Country Agreements

- United Nations/Austria Symposium on “Space: A tool for Accessibility, Diplomacy, and Cooperation” (Graz, Austria, 2-4 September 2019)
- United Nations/Austria World Space Forum on Access to Space for All (Vienna, 19-23 November 2019)
- United Nations/China Forum on Space Solution: Realizing the Sustainable Development Goals (Changsha, China, 24-27 April 2019)
- United Nations International Conference on Space-based Technologies for Disaster Risk Reduction – ‘A Policy Perspective’ (Beijing, China, 11-12 September 2019)
- United Nations/Turkey/APSCO Conference on Space Law and Policy organized by the United Nations, represented by the Office for Outer Space Affairs, in cooperation with the Government of Turkey, represented by the Turkish Space Agency and the Scientific and Technological Research Council of Turkey (TÜBİTAK) Space Technologies Research Institute (TÜBİTAK UZAY) (Istanbul, Turkey, 23 -26 September 2019)

Awareness-raising and Outreach

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

RESOURCES OF THE OFFICE

Human Resources overview

Funding Source	2012-2013	2014-2015	2016-2017	2018-2019	2020 (as at February)
Regular Budget	24 (19P/5GS)	23 (18P/5GS)	23 (18P/5GS)	23 (18P/5GS)	23 (18P/5GS)
Extra-Budgetary (Cash)	2 (2GS)	3 (1P/2GS)	4 (2P/2GS)	6 (3P/3GS) 2 (Temp)	6 (3P/3GS) 2 (Temp)
Extra Budgetary (In-kind)	9 (5NRL/4JPO)	7 (5NRL/2JPO)	8 (6NRL/2JPO)	9 (6NRL/3JPO)	6 (3NRL*/3 JPO)
Total Staff*	35	33	35	40	37

*2 more NRLs and 1 JPO are expected to report shortly.

Financial resources overview

Regular Budget

Thousands of United States dollars

2012-2013	2014-2015	2016-2017	2018-2019*	2020**
8 305.5	7 774.3	7 561.8	7 558.7	3 921.3

* Final released budget

** Appropriation

Extra-budgetary

Thousands of United States dollars

	2019	Donors
Cash contributions received (excl. prior period adjustments)	1,835.0	Agustin Codazzi National Geographic Institute (IGAC); Asia-Pacific Space Cooperation (APSCO), Government of Austria; Austrian Federal Ministry for Transport, Innovation and Technology (BMVIT); Austrian Research Promotion Agency (FFG); Autonomous University of the State of Mexico (UAEM); Beihang University, China; Government of Brazil; Government of Chile; Government of China; China Manned Space Agency (CMSA); China National Space Administration (CNSA); National Disaster Risk Reduction Centre in China (NDRCC); Delta State University, United States of America; Ecuadorian Space Institute (IEE); European Commission; European Space Agency; Federal University of Santa Maria, Rio Grande do Sul (UFMS), Brazil; Geosynchronous Synthetic Aperture Radar (GEOSARMEX); German Federal Ministry for Economic Affairs and Energy (BMWi); Government of India; Indian Institute of Technology Roorkee; International Astronautical Federation (IAF); International Centre for Theoretical Physics (ICTP); Japan Aerospace Exploration Agency (JAXA); Joanneum Research Forschungsgesellschaft mbH, Austria; Government of Luxembourg; Mexican Space Agency (AEM); National Commission on Space Activities (CONAE), Argentina; Prince Abdulazziz International Prize for Water (PSIPW); Romanian Space Agency; SAARC Disaster Management Centre; Scientific and Technological Research Council of Turkey (TUBITAK); Secure World Foundation (SWF); Sierra Nevada Corporation; UN-HABITAT; University of Bonn (UniBonn); University of South Pacific (USP), Fiji; National Oceanic and Atmospheric Science Agency (NOAA), United States of America; Government of the United States of America
In-kind Contributions (excluding the value of staff placement with Office on non-reimbursable loan basis (NRL) or under the junior professional programme (JPO))	385.0*	

* 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

Highlight of 2019 activities of the Office for Outer Space Affairs

Programme on Space Applications (PSA)

<i>Workshops, symposia, conferences</i>	<i>Location</i>	<i>Dates</i>
UN/Jordan Workshop on Global Partnership in Space Exploration and Innovation	Jordan	25-28 March
UN/China Forum on Space Solutions: Realizing the Sustainable Development Goals	China	24-27 April
UN/Romania Conference on Space Technology for Sustainable Agriculture and Precision Farming	Romania	6-10 May
International Space Weather Initiative Workshop organized by the International Centre for Theoretical Physics and supported by the Office for Outer Space Affairs	Italy	20-24 May
Workshop on Global Navigation Satellite Systems organized by the University of the South Pacific and supported by the Office for Outer Space Affairs	Fiji	24-28 June
UN/Austria Symposium "The Renewed Promise of Space: a Tool for Development, Accessibility and Diplomacy"	Austria	2-4 September
IAF 27th Workshop on Space Technology for Socio-Economic Benefits: Ensuring inclusiveness and equality through space-based applications and space exploration	United States of America	18-20 October

<i>Initiatives</i>	<i>Deadline/Information</i>
Access to Space for All	
Announcement of opportunity CubeSat Deployment from the ISS Japanese Experiment Module (Kibo) "KiboCUBE", 4 th round	28 February 2019
Announcement of selection of 2 CubeSats of 4th round to CubeSat Deployment from the ISS Japanese Experiment Module (Kibo) "KiboCUBE"	22 October 2019
Announcement of 9 experiments to Cooperation on the Utilization of the China Space Station (CSS)	12 June 2019
Announcement of opportunity CubeSat Deployment from the ISS Japanese Experiment Module (Kibo) "KiboCUBE", 5th round	30 September 2019
Execution of experiment of 6th round of Drop Tower Experiment Series" (DropTES)	November 2019
Space for Water	
Space for Water Portal	Continuous content and services development

<i>Fellowships</i>	<i>Location</i>
Fellowship Programme for "Drop Tower Experiment Series" (DropTES)	Germany
UN/Japan Long-term Fellowship Programme 2019 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>Location</i>	<i>Dates</i>
Training course on Global Navigation Satellite Systems	Thailand	14-18 January
Technical seminar on reference frames in practice	Viet Nam	20-21 April
Workshop on findings and challenges in ionospheric forecasting for GNSS operations in developing countries	Italy	27-31 May
International workshop for the implementation of the global geodetic reference frame in Latin America was held in from 16 to 20 September 2019.	Argentina	16-20 September
Workshop on the latest developments of NeQuick and the implementation of new versions of NeQuick for space applications	Italy	8-11 October
14th Meeting of the International Committee on Global Navigation Satellite Systems	India	8-13 December

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

	<i>Location</i>	<i>Dates</i>
Institutional Strengthening Mission	Myanmar	11-15 March
Institutional Strengthening Mission	Lao PDR	18-22 March
Technical Advisory Mission	Peru	1-5 April
Training course	Ecuador	8-12 April
Second Multi-Hazard Early Warning Conference	Geneva, Switzerland	13-14 May
Institutional Strengthening Mission	Cameroon	15-19 July
Institutional Strengthening Mission	Sri Lanka	20-23 August
Institutional Strengthening Mission	Ethiopia	26-30 August
Institutional Strengthening Mission	Mongolia	2-4 September
International training course on space-based technologies for disaster risk assessment	China	5-9 September

International Conference on Space-based Technologies for Disaster Risk Reduction	China	11-12 September
International conference on the theme “Space-based solutions for disaster management in Africa: challenges, applications, partnerships”	Bonn, Germany	6-8 November
International training course on space-based information systems for ecosystem-based disaster risk reduction	Roorkee, India	25-29 November
Regional workshop and capacity-building programme	Ahmedabad, India	4-8 December

Secretariat of the Space Mission Planning Advisory Group (SMPAG)

	<i>Location</i>	<i>Dates</i>
12th SMPAG Meeting	Vienna	13 February 2019
13th SMPAG Meeting	Garching, Germany	13 September 2019

Capacity-building in space law and policy

	<i>Location</i>	<i>Dates</i>
United Nations/ Turkey/ APSCO Conference on Space Law and Policy	Istanbul, Turkey	23-26 September 2019

Inter-agency coordination

	<i>Location</i>	<i>Dates</i>
UN-Space Meeting	New York	28 October 2019
UN-Space Open Informal Session at World Space Forum	Vienna	20 November 2019

World Space Forum

	<i>Location</i>	<i>Dates</i>
United Nations/Austria World Space Forum on the theme “Access to Space4All”	Vienna	18-22 November 2019

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
International Women's Day	8 March
World Water Day	22 March
International Day of Human Space flight	12 April
Vienna International Centre 40 th Anniversary	27 May
World Day to Combat Desertification and Drought	17 June
International Asteroid Day	30 June
International Youth Day	12 August
World Space Week	4-10 October
International Day for Disaster Reduction	13 October

<i>Exhibitions</i>	<i>Location</i>	<i>Dates</i>
UN System Exhibit on SDG Good Practices and Actions	UNHQ, New York, USA	21-27 September
Access to Space for All (at International Astronautical Congress)	Washington DC, USA	21-25 October

<i>Publications</i>	<i>Symbol/Date</i>
UNOOSA 2018 Annual Report	ST/SPACE/76 12 June 2019
10 Years of the UN-SPIDER Beijing Office	ST/SPACE/74 23 September 2019

<i>Global Outreach</i>	<i>Location</i>	<i>Dates</i>
Joint UNOOSA / DESA Science, Technology and Innovation Forum Side Event: "Space4SDGs"	New York, USA	14 May

Austrian World Summit Keynote contribution together with the United Nations Champion for Space	Vienna, Austria	28 May
High-level Week of General Assembly: side event on Space applications for climate action	New York, USA	21 September
High-level Week of General Assembly: side event on Access to Space for All	New York, USA	23 September

Appendix II

Planned 2020 activities of the Office for Outer Space Affairs

Programme on Space Applications (PSA)

<i>Workshops, symposia, conferences</i>	<i>Location</i>	<i>Dates</i>
UN/Mongolia Workshop on Global Navigation Satellite Systems	Mongolia	13-17 April
UN/Brazil Open Universe Workshop	Brazil	1-4 June
UN/Austria 26th Symposium	Austria	31 August-2 September
UN/Spain Dark and Quiet Skies Conference	Spain	5-8 October
UN/IAF 28th Workshop on Space Technology for Socio-Economic Benefits	United Arab Emirates	9-11 October
UN/India International Space Weather Initiative Workshop	India	2-6 November

<i>Initiatives</i>	<i>Deadline/information</i>
Access to Space for All	
Announcement of opportunity ESA/HyperGES	31 January 2020
Announcement for opportunity Drop Tower Experiment Series" (DropTES)	29 February 2020
Call for interest Sierra Nevada Corporation's Dream Chaser	30 April 2020
Announcement of opportunity Accessing Space with the ISS Bartolomeo Platform, Airbus Defence and Space GmbH	30 April 2020
Announcement of opportunity Accessing Space with VEGA-C, Avio S.p.A.	To be issued: March 2020
Announcement of opportunity CubeSat Deployment from the ISS Japanese Experiment Module (Kibo) "KiboCUBE"	To be issued: June 2020
Announcement of opportunity Telescope provision by the International Scientific Optical Network	To be issued: Spring 2020
Announcement of opportunity Cooperation on the Utilization of the China Space Station (CSS)	To be issued: Summer 2020
Space for Water	
Space for Water Portal	Continuous content and services development

<i>Fellowships</i>	<i>Location</i>
Fellowship Programme for "Drop Tower Experiment Series" (DropTES)	Germany

UN/Japan Long-term Fellowship Programme 2020 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>Location</i>	<i>Dates</i>
Training Course on Global Navigation Satellite Systems	Thailand	6-10 January
Eastern Africa Global Navigation Satellite Systems and Space Weather Capacity Building Workshop	Kenya	1-5 June
Workshop on the use of Global Navigation Satellite Systems for Space Weather Research	Morocco	5-16 October
15th Meeting of the International Committee on Global Navigation Satellite Systems	Austria	14-18 September

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

	<i>Location</i>	<i>Dates</i>
Technical Advisory Mission and Training	Tunisia	4-11 March
Regional Workshop	Turkey	18-20 February
Asia Pacific Science and Technology Conference for DRR (APSTCDRR)	Malaysia	16-17 March
Technical Advisory Mission	Afghanistan	5-9 March
Follow-up activity to Technical Advisory Mission	Lao PDR	11-15 May
Workshop on Natural Disaster Prevention and Emergency Management	China	16-17 June
Expert meeting	Germany	Q2
Institutional Strengthening Mission	Ethiopia	Q2
Meeting of Regional Support Offices	Austria	Q2
Follow-up activity to Technical Advisory Mission	Mongolia	Q3
Follow-up activity to Technical Advisory Mission, Regional Expert Meeting	Peru	Q3
Regional expert meeting	South Africa	Q4
International Conference	China	Q4
International Training	China	Q4
Follow-up activity to Technical Advisory Mission	Nepal	Q4

Workshop and training, South Asian Association for Regional Cooperation	India,	Q4
---	--------	----

Capacity-building in space law and policy

	<i>Location</i>	<i>Dates</i>
UN Space Law Conference	TBC	TBC
Technical Advisory Mission to Chile	Chile	18-20 May 2020

Inter-agency coordination

	<i>Location</i>	<i>Dates</i>
UN-Space meeting	TBC	TBC
UN-Space open informal session	TBC	TBC

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>Location</i>	<i>Dates</i>
14th Space Mission Planning Advisory Group (SMPAG) Meeting	Vienna, Austria	TBC
15th Space Mission Planning Advisory Group (SMPAG) Meeting	TBC	TBC
Interdisciplinary school on near-Earth objects and planetary defence	Erice, Italy	15-21 November

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 (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 2020
International Women's Day	8 March 2020
World Water Day	22 March 2020
International Day of Human Space flight	12 April 2020
World Day to Combat Desertification and Drought	17 June 2020
International Asteroid Day	30 June 2020
International Youth Day	12 August 2020
World Space week	4-10 October 2020
International Day for Disaster Reduction	13 October 2020

<i>Exhibitions</i>	<i>Location</i>	<i>Dates</i>
UNOOSA: Bringing the benefits of space to humankind (at International Astronautical Congress)	Dubai, United Arab Emirates	12-16 October 2020

<i>Publications</i>	<i>Date</i>
UNOOSA 2019 Annual Report	June 2020

<i>Space for Women</i>	<i>Location</i>	<i>Dates</i>
UN/Brazil Workshop on Space for Women	Brazil	Q4, 2020
Space for Women Portal (launch)		11 February 2020

<i>Other activities</i>	<i>Location</i>	<i>Dates</i>
World Space Forum	United Arab Emirates	TBC