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FIRST COMMITTEE OF THE GENERAL ASSEMBLY

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United Nations



A /77/80

Distr.: General 24 June 2022 English Original: Chinese/English/ French/Spanish/Russian

Seventy-sixth session Item 97 (c) of the preliminary list* Prevention of an arms race in outer space: further practical measures for the prevention of an arms race in outer space

> Further practical measures for the prevention of an arms race in outer space

Report of the Secretary-General

Summary

The present report provides a consolidated summary of elements from the submissions received from Meener's States pursuant to resolution 76(230, without projectica to their individual positions. It presents existing and potential threats and security risks to space systems, including those arising from actions, activities or systems in outcains for existing regulatory regime, as well as past and ongoing multilateral processes, and further practical measures for the prevention of an amis race inouter space.





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I. Introduction

 In paragraph 7 of its resolution %2/32 on further practical measures for the prevention of an amin race inouter space, the General Assembly requested the Secretary-General, within existing resources, to seek the views and proposals of Member States on the provision of guarantees for the prevention of an amin scate in outer space and preserving outer space for peaceful purposes, and to submit a substantive regort, which an annex containing flows views, to the General Assembly at its seventy-seventh session, for further discussion by Member States. The present report is submited positionate to that request.

2. On 11 January 2022, the Office for Disarmament Affairs sent a note verbale to

all Member States drawing their attention to paragraph 7 of the resolution and seeking their views on the matter. The views received by 6 May 2022 are reproduced in the annex to the present report. Views received after 6 May have been posted on the website of the Office in the original language received. Replies received from other entities have also been posted on the website.

3. Sections II to V of the present report provide a consolidated summary of

elements from the submissions received from Member States, without prejudice to their individual positions. Section VI sets out the observations and conclusions of the Secretary-General.

II. Background

4. States reiterated that the exploration and use of outer space should be carried out exclusively for peaceful purposes. Many States regarded outer space as a global commons, it was recalled that the exploration and use of outer space should be carried out for the benefit and in the interests of all countries.

5. State expressed the opioinn that they are increasingly dependent on spacebased capabilities, where sees an increasingly essential of the welfare of humaniani, they artessed the importance of outer space for the provision of services, whether for excising, in a batter, they considered space-based scates to be viait for addressing scott global challenges as <u>former</u> charging on the achievement of the addressing scott global challenges as <u>former</u> charging on the achievement of the scate scott global challenges as the destinction of the achievement of the scate scott global challenges as the destinction of the achievement of the scate scott global challenges as the destinction of the achievement of the scate scate and that interference with or destinction of the arrives they provide could be scate.

6. A number of States stressed the importance of space systems for international and national security, including for the purposes of communications, command and control, navigation, intelligence, reconnaissance, early warning and the verification of arms control agreements.

7. The urgency and importance of preventing an arms race in outer space was stressed. It was also stressed that any arms conflict incuter space would have wide-ranging consequences and would likely harm many States not party to such a conflict. It was therefore considered that outer space security was an interest for all States, which have a common responsibility to prevent outer space from becoming a domain where active hostifies can occur.

A particular concern was expressed about the increasing role of commercial

actors in military space activities, a development that was considered to be accelerating arms competition in outer space and blurring the boundary between civil and military activities. The widespread use of space for civilian and military purposes

4 Did you know that...

that are not under any national jurisdiction and are considered to be very important to the by the International Court of Justice (ICJ) in its Advisory Opinion on the Legality of the Use by a state of Nuclear Weapons in Armed Conflict "The existence of the general obligation of states to ensure that activities within their jurisdiction and control respect the national control is now part of the corpus of international law relating to the environment". In fact, the outer space is not only one of the "global commons" protected under international law. Other examples include the high seas, Antarctica (see the Antarctic Treaty) and the atmosphere. Delegates are highly encouraged to research and evaluate the effectiveness of the policies and international legal frameworks governing and protecting other global commons.

5 Interesting facts...

Satellites are essential for monitoring climate change and collecting data for environmental research purposes. For instance, remote sensing helps gather data regarding deforestation, polar ice melting, water pollution and the conditions of our atmosphere. In particular, polar orbiting satellites are helpful in covering more parts of the northern latitudes. They are important for monitoring maritime security and the melting or lice agas in the Arctic.

5 Did you know that...

"The Access to Space 4 All Initiative" vas set up by UNCOSA to bridge the gap between countries' accessibility to space. It provides research opportunities, as well as space infrastructure and information to many countries, especially developing ones. The initiative is especially for promoting sustainable development goals through increasing teachability to space technology. was seen as leading to vulnerability for all States. It was therefore suggested that the interplay between civilian and military use of outer space be taken into account when considering measures to prevent an arms race in outer space.

III. Existing and potential threats and security risks to space systems, including those arising from actions, activities or systems in outer space or on Earth

9. Nary State: considered outer space to be increasingly congested, contented and competion. They believed that the congestion has been caused by an increasing number of both active satellites and of pieces of debris. Such congestion was seen as huming a potentially angular effect on the increasing number of both schies and congestion was seen as addition, concern was expressed that the increasing number of active including and the increasing number of active increasing additional debris. In addition, concern was expressed that the increasing number of active increasing and the origin context of understanding and miscalculation, which cold sectate tension and lead to conflict.

10. A number of States considered that strategic competition in outer space was

intensitying and that such competition was presenting a challenge to international process and accent, including by increasing the proteinal for criticit. This competition was seen as presently involving the major military provers. The view was to presend developed that can chall this security of the transpersion works of the second technologies and acts that fail labels the three heads of a second the proverse the transpersion of outer space. The sail to agree the second present can be the waspendance of a second technologies and the second present technologies and exception of a second present technologies and the second present technologies and waspendance of a second present technologies and the second present technologies are second present technologies and the second present technologies and the second second present technologies and technologies and the second present technologies and te

 Many States stressed the importance of preventing an arms race in outer space, which would consume significant recourses and imposit the paceability as and exploration of outer space. It was suggested that an arms race in space was already enging and should be continued. It was also suggested that as molect—sky arms race in outer space was complex, encompassing ground-based components and detensive encoders and an another state of the state of the state of the state of the space was noted. Concern was supressed at national statements referring to outer space was noted. Concern was supressed at national statements referring to outer space as a "sumfight domain".

2. In two notes that threats to space system could come from two possible vectors: a non-two poss, pace system, and possible vectors: a non-two possible vectors and research space regardly and research and the space system of the space of

10 Did you know that...

The theory of hybrid warfare was developed by Frank Hoffman and he defined it as a "range of different moder of warfare including conventional capabilities, irregular tactics and indiscriminate violence and coercion and criminal disorder". Hybrid warfare has become challenging to tackle hybrid warfare as some of the military strategies such as those involving non-state actors cyberwarfare and other forms of information technology may not meet the "armed attack" threshold. As a result, it has led to a lot of controversies as to whether selfthe UN Charter. Article 51 states that "Nothing in the present Charter shall impair the inherent right of individual or collective self-defence if an armed attack occurs against a member of

Something to think about

Contrary to popular belief, the launching state is not necessarily the owner of a space object. Since 2018, New Zealand has increased its relevance in pace as a space-faring nation. New Zealand is known for launching military atellites for foreign governments, especially the United States, and has now become the Violandarget automation of the world, interests of various nations in outer space carefulk.

12 Did you know that...

Whilk Megaconstellations serve the important purpose of ensuing broadbard internet access, many astronomers and experts have spoken up about how mega-constellations have been bound to bard the spoken up to David Koplow, the Scott K. Ginshurg Professor of Law at Georgetown University Law Centre in Washington DC, as the first big batch 2019, their brightness has greatly dirupted trunch to advise. Internet how any activity of the strungth to advise. 13. It was noted that some States are developing, testing, operationalizing, stockpiling, and deploying in outer space a variety of counter-space capabilities that could be used to deny, disrupt, degrade or destroy civil, commercial or national security space capabilities and services. Several States expressed concern that the development of such counter-space capabilities could increase mistrust, as well as risks of misunderstandings and micaclulation.

14. It was noted that many space capabilities and technologies can be considered

dua-use, having both cultim and military applications. Several tasks pointed to the dual-use, having both cultimation and an advantation of the star space part of the dual-use having both cultimation and the star space of the star space of the leading to uncertainty of cultimation and the star space of the star space of the star burlet on a started data started and on-other spacing it has noted that the functions as a started data started and on-other spacing it. These notes that the started data started data started and on-other spacing it. These notes that the started data started data started and on-other spacing it. These notes that the started data starte

IV. Existing regulatory regime, past and ongoing multilateral processes

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16. A number of States streased the importance of camping multiinternational large ladgetons, including domannent and annu control elibipation, including as a means for preventing conflict in outer space. It was a synch that branches of international large outil controls to degradation of two, land to a many race and internate the risk of mosaical-latton, sessibling and the similar glassification and conflict. States recalled in other second the pach, as well as the establishment of initiary bases, instantions in other second the pach, as well as the establishment of initiary bases, instantions is mostive second the pach, as well as the proposed that States content assumesce as its manowerse on content labodes. It was proposed that States content assumesce as the second the pack of the states of the second the states content assumesce as its second the pack of the second the states content assumesce as the second the pack of the states of the second the states content assumesce as the second the pack of the states of the states of the second the states of the second the pack of the second the states of the states of the states of the second the states of the sta

14 Interesting facts...

Techniques for deorbiting space debris generally fall into three primary categories, each targeting different types and sizes of debris:

- Eliminating Small Objects with Laser Radiation: This method uses focused laser based, it is provid-based or spacebased, to heat and vaporize tiny pieces of debris, causing them to disintegrate.
- 2. Redirecting Debris into Natural Disposal Orbits: Larger debris can be moved into safer talgetories using various propulsion or propulsion or oroken propulsion to push objects toward orbits where they naturally decay over time, as well as solar saih that harness sunlight pressure to guids debris use electricity (other from solar panels) to ionize a gui like areon, creating charged apricide giong which are then excelled at high speech to generate thrust. Electric eligitatients over time.
- 3. Sloving Down Debris for Atmospheric Re-Entry: In this approach, objects in low Earth orbit are decelerated using tools like ground-based lears, which apply directed energy to create drag, or inflatable braking devices (IBD) that increase resistance nobotic spacecraft, often referred to as 'redout spacecraft, often referred to a 'tags,' can attach to debris and hybridally guide it into denser atmospheric layers, where it burns up during re-entry.

14 Interesting facts...

Dual-use technologies in space refer to systems, tools, or technologies that can be used for instance of the system of the system of the system heatile) purposes. These technologies are often developed for size defines or offensive a statilite that is designed to be used for wather forecasting, communication, and Earth observation but could also be used for target identification. 13. It was noted that some States are developing, testing, operationalizing, stochpiling, and deploying in outer space a variety of counter-space variety of counter-space variety and deploying in could be used to develop development and services. Specerol States expresses concern that the development of such counter-space capabilities could increase mistrust, as well as risks of misunderstanding and misunderstandings.

14. It was noted that many space capabilities and technologies can be considered

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IV. Existing regulatory regime, past and ongoing multilateral processes

13. If the act start field international law applies to activities in other space. It was that the international law produce to the flowershife bit the approximate of approach and the approach applies and the approach applies and the approach applies and the applies of the applies applies of the applies of the applies of the applies applies of applies applies of the applies applie

16. A number of battes streads the importance of complexity only when sitting international legislations, including distannament and annu control elipitations, bickeding as a nears to preventing conflict in outer space. It was argued that bickeding international lane could control to degradation of thrus, land to an annurace and increase the risk of metaciclustration, escalations and conflict. States recalled that the similar glacing methods has beginned or thrust places, transitions in order second the archy, an order at the traditioned metaciclustration in order second the archy, and at the traditioned metaciclustration metacores of the archy, and at the traditioned metacore in mitory bases, transitions, manowerses on classification bodies. It was proposed that States comprise any analytics.

14 Interesting facts...

There are currently counties pieces of space doin in outer space with pierful due to the start mult to detec by radiar or the latest insighton technologies are still in their early tatges, progress has been made. The Wold Economic Forum has recently introduced ELSA, a small satellite with a powerful magnet, a strate space debra and remove them from orbit. Even though purchasing and investing in successing to the Federation of American according to the Federation of American according to the Federation of American be generated within a decade.

14 Something to think about

Since the Convention on the International Liability for Damage Caused by Space Objects (hereinafter the Liability Convention) was drafted more than 50 years ago, the drafters did not foresee the commercialization of outer space. Although many legal issues and debates arise surrounding space commercialization. states mostly have the initiative to ensure sufficient insurance and regulation for activities by non-state actors or companies. This is because under the Liability Convention victim states may hold the launching state liable to pay compensation for damage caused to their space objects. Delegates are encouraged to brainstorm on space law and policies that may help regulate space commercialization, as well as problems with only holding the launching state accountable but not owners of the space object or companies.

14 Something to think about

If you were the leader of a state, would you be willing to share your military strategies and latest technologies publicly or with other states? Why? The same idea of transparency and information sharing was suggested by the group of gowernmental experts to lethal autonomous weapons systems, however, little progress has been made in limiting and governing their use. Why do you think that is the case? 13. It was noted that some States are developing, testing, operationalizing, stochylling and deploying in outer space a variety of counter-space variety of counter-space variety and belowing the development of the stochylling and services. Special States expresses concern that the development of such counter-space capabilities that the development of such counter-space capabilities could increase mistrust, as well as risks of misunderstandings and misualculation.

14. It was noted that many space capabilities and technologies can be considered

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IV. Existing regulatory regime, past and ongoing multilateral processes

It was noted that international law applies to activities in outer space. It was stated that existing international law provides a strong framework for the governance of outer space activities. States cited examples of international agreements that apply in outer space, including the Charter of the United Nations: the Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space, including the Moon and Other Celestial Bodies; the Treaty Banning Nuclear Weapon Tests in the Atmosphere, in Outer Space and under Water: the Agreement on the Rescue of Astronauts, the Return of Astronauts and the Return of Objects Launched into Outer Space, the Convention on International Liability for Damage Caused by Space Objects. the Convention on Registration of Objects Launched into Outer Space, the Convention on the Prohibition of Military or Any Other Hostile Use of Environmental Modification Techniques, the Treaty between the United States of America and the Russian Federation on Measures for the Further Reduction and Limitation of Strategic Offensive Arms and the Treaty on the Prohibition of Nuclear Weapons. In addition the Comprehensive Nuclear-Test-Ban-Treaty was also seen as relevant, although it has not vet entered into force

16. A number of States streased the importance of complying with existing international legislations, including distanmente at an arcs control obligations, including as a means for preventing conflic in outer space. It was argued that beaches of international law could control to degradation of truth, land to a mark race and increase the risk of microachulation, escalation and conflic. States realled that the existing legislation problem that become of mass described and for fulfications, hose taking on the problem to the space of mass described and for fulfications, hose testing of any type of waspost and the conduct of unliking monetary.

5 Something to think about

Think critically on whether the existing frameworks are really strong enough to help humanity overcome the challenger faced in outer space. As mentioned, some legal frameworks were drafted 50 years ago, when the issues of space debris, commercialization and tourism, the rapid development of space technologies, congestion of the Lower Earth Orbit, the new political landscape etc. were not foreseen.

Did you know that...

The Convention on Registration of Objects Launched into Duck Space (hereinalther the Registration Convention) has long been registration of passe objects. There are currently no effective enforcement mechanisms or consuguences for states that fail to registre their space objects. As a result, and space definit to dodge lability: For instance, so observed in Article 40 the Registration Convention, wording such as "as toom as pacefailther or "to the give foot sterm and weaken registration.

16 Interesting facts...

The Outer Space Travely (05) 07 1967, which serves as the foundation of international space governance, explicitly prohibits certain use for peaceful purposes. Article VP Reactful Use of Celestal Bodies prohibits the placement of muclear weapone or any other weapons of mass unclear weapone or any other weapons of mass celestal bodies (e.g., the Moor, Mars) be used celestal bodies (e.g., the Moor, Mars) be used weapone on celestal bodies. A/77/80

international agreements that are applicable to outer space activities and of internationally agreed principles related to outer space.

17. A number of States expressed the view that the existing legal regime does not prohibit the placement in orbit of vegoes of other than vegoes of other state vegoes of other state vegoes of the vegoe

18. The secolar that the engineement of the General Accempt, with outer special case that the start shart and the engineement of the General Accempt with the secolar of the start and the start of t

19. States recalled the work of the Group of Governmental Experts on Further

Practical Measures for the Prevention of an Arms Race in Outer Space and the report that it produced (A/74/77).

20. In two suggested that Hember States should review the report of the Secretarian enderoing search trans through router, noise and price/pice independent babaicus U/V/P/P/P, A number of Sates emplosates the related of the spece-model babaicus U/V/P/P/P, A number of Sates emplosates the related of the spece-model secretarian and a manise transmission to Secretarian Sates and an expension of a same scale in later spece to the Secretarian employee the secretarian secretarian excellent and the secretarian secretarian excellent and the secretarian employee the secretarian secretarian excellent and the secretarian excellent and the secretarian excellent and the secretarian secretarian excellent and the secretarian excellent secre

V. Further practical measures for the prevention of an arms race in outer space

21. Many States called for engagement in an inclusive multilateral process to take forward discussions called to the prevention of an arm race at our largace. Takino years during the properse, traphily innove space sectors (in the take the process of the states) provide the process at domain fine of any type of wespons and prevent outer states preventions and the state of the process of the state of the state of the process of the states of the state of the states of the state of the states of the state of the states of the state of the states of the state of the states of the state of the sta

17 Did you know that...

All states have an equal right to access and proper source approximation of the states of the states of the states of the states of the use of outer space. All the carried out for the states of the sta

9 Something to think about

The Group of Governmental Experts was established by the UNGA in 2017 to make recommendations on drafting an interpretending observation of the prevention of the geographical distribution and level of space development of member states that were invited by the Secretary-General to command experts to join the work of the the most suitable for achieving the mandate the most suitable for achieving the mandate opien by the UNGA to the group.

21 Did you know that...

Under the "Due negard principle" enthined in Article K of the Outer Space Treaty, member status are under the obligation to demonstrate interest and the structure. This obligation encourages status to be transparent and publication their space instatus. This obligation and the structure the right to request consultation communicated the status structure structure

instruments, such as The Hague Code of Conduct against Ballistic Missile Proliferation. A number of States emphazized the need to bring all stakeholders together in the existing forums with a view to enhancing cooperation and trust among all stakeholders, in particular among States.

22. In respect of the development and review of measures for the prevention of an arms race in outer space, as well as broader measures for security and the prevention of conflict in outer space. States suggested a number of matters should be to be taken into account, including:

 A common understanding and analysis of what constitute space threats and responsible behaviours to avoid or prevent such threats;

- (b) All segments of a space system;
- (c) All threats to space systems comprehensively and all vectors for such threats, including Earth-to-space, space-to-space, space-to-Earth and Earth-to-Earth;

(d) The role of new and novel technologies, as well as such existing ones as missiles, and kinetic and non-kinetic threats;

 Mutual understanding between States of their capabilities and intentions in outer space;

(f) Misperception of actions and effects, and misunderstanding of systems and deployments;

- Absence of functioning arms control regimes and of agreed-upon rules, norms and principles, including for their interpretation and application, and incomplete agreements;
- (h) Lack of trust and verification measures.

23. It was also stated that there was a need to strengthen initiatives aimed at promoting cooperation and assistance in the area of outer space and to promote exchanges, technical assistance, technology transfer and the use of outer space for peaceful purposes.

24. States expressed various views on the notion of "guarantees" in the context of

the prevention of an arms race in outer space. The view was expressed that the prevision of guarantees could ential a combination of programic, reliable and holistic measures that, in combination and over time, would limit the drivers of an arms case and provide the driver shows the standard of outer space. A norm-toe driver and the standard standard standard standard standard standard challenges to outer space security and employing an arms focus only on legally binding treater, or a otherwise singling on toe limiting approaches.

25. Many States expressed support for a comprehensive approach for the prevention

of arms race in outer space, as well as broader measures for security and prevention of conflict in outer space. It was considered that such an approach should address all threats and threatening and destabilizing behaviours in a holistic manner, on the basis of which further specific, tailored and practical measures to address threats threats could be developed. It was further considered that such an approach could involve

- (a) Compliance with and full implementation of existing relevant agreements and the review of existing and future counterspace threats as well as the overarching international security environment.
 - international security environment; The subsequent development of a comprehensive step-by-step approach

(b) The subsequent development of a comprehensive, step-of-step-of-step-aproach, including voluntary commitments related to norms of responsible behaviour and other transparency and confidence-building measures, in addition to the potential

21 Did you know that...

The Hague Code of Conduct is a political initiative and non-legally binding instrument that aims to restrict ballistic missile proliferation globally. However, if Article IV of the Outer Space Treaty is read closely, delegates may realize that the wording of the delegates may realize that the wording of the outer space on ballistic missile systems. According to the Arms Control Association, the Outer Space Treaty also does not restrict the launching of ballistic missiles to outer space.

22 Something to think about

The Outer Space Treaty does not prohibit the deployment of military personale by member resplorations in outer space. Moreover, the treaty allows for non-aggressive military activities that aid military operations on Barthy. Apart from satellites (of pointoining, Apart from satellites collisions, would such military activities or the presence of military personnel lead to more tension or space?

29 Something to think about

Anti-stellite (ASAT) tests are conducted by nations to disable or destroy satellities, often through direct physical impact or other means of incapacitation. These tests are a significant to discapacitation. These tests are a significant as the destruction of satellites produces fragments that remain in orbit. Space debris poses a serious thread by increasing the likelihood of olitics with operational spacecraft and other orbital objects, space orbits out of satellites of space orbits.

30 Something to think about

PROc refer to the controlled approach of a spacecraft to another space object or satellite, either for cooperative purposes (e.g., servicing or docking) or non-cooperative scenarios (e.g., inspection or debris removal). As these activities become more common with advances in technology, norms are essential to ensure safety, prevent collisions, and maintain trust among space actors.

30 Did you know that...

States or entities conducting PROs should share details of the mission's purpose, timeline, and expected outcomes and clearly identify their build in the stand and supplicing of hostile intent. The challenge with PROs is that they can be used for both civilian purposes (e.g., statellite servicing) and military objectives (e.g., statellite servicing) and military objectives (e.g., adherence depends on the good faith of space actors.

30 Something to think about

Abandoned or inactive satellites are often targeted by states for military or anti-satellite missile tests as states do not have the incentive to remove them. According to the National Aeronautics and Space Administration (NASA), two out of three top space junk producing missions are anti-satellite verapon tests. Various delegates have expressed their concerns on the issue of the development of anti-satellite of the development of anti-satellite

consideration of concepts and proposals for new, legally binding agreements that are equitable and effectively verifiable;

(c) Examining other measures available to States that could help maintain international peace and security.

26. In Instancemention, many States expressed support for development and implementation of enous, rules and principies of responsible barbinurus. Many States considered that gaining a botter understanding of responsible and irresponsible barbinurus would increase predictability and avoid fension in outer space. It are suggested that such an apprach could ential prohibitions and would be loss its likely to be vortable by burtue technological development. A number of States expressed burtue would be too carrow and insufficient.

27. It was considered that any possible future measures should be developed in

accordance with the criteria agreed by the Group of Governmental Experts on Transparency and Confidence-building Measures in Outer Space Activities, which indicated that any such measures should:

(a) Be clear, practical and proven, meaning that both the application and the efficacy of the proposed measures have been demonstrated by one or more actors;

(b) Be able to be effectively confirmed by other parties in its application, either independently or collectively;

(c) Reduce or even eliminate the causes of mistrust, misunderstanding and miscalculation with regard to the activities and intentions of States.

28. In addition, it was suggested that any such measures should be equitable and

enhance national security, the terms of any agreement must be defined with reasonable precision and any agreement must use precise language to specify what compliance and non-compliance would look like and how it would be measured within the constraints of currently available technology.

29. States suggested a range of possible measures that could be developed, including the following proposed obligations or commitments:

(a) Refrain from actions, operations and activities that pose a threat or might easily be misperceived as a threat to security and stability;

(b) Not to use space objects to destroy targets on Earth, in the atmosphere or in outer space;

(c) Not to destroy, damage or change the flight trajectory of space objects of other States;

(d) Not to develop, test or deploy space weapons, including those to be used for missile defence, and to destroy any such weapons already in existence;

- (e) Not to use crewed spacecraft for military purposes;
- (f) Not to assist or incite others to engage in such activities;
- (g) Not to conduct destructive direct-ascent anti-satellite missile tests.

30. States were called upon to better supervise commercial actors under their unsdiction to ensure that they did not engage in irresponsible behaviours. It was suggested that States commit to minimizing the intentional creation of debiss, and that norms for the conduct of proximity and rendervous operations be developed.

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consideration of concepts and proposals for new, legally binding agreements that are equitable and effectively verifiable;

(c) Examining other measures available to States that could help maintain international peace and security.

26. In that connection, many States expressed support for development and implementation of onem, naits and principles of responsible bandiverum, Hany States considered that gaining a better understanding of responsible and responsible bahaviours would increase predictability and and tension in outer space. The supsinglested that such an apprach could ential prohibitions and would be less likely to be vortained by blue technological development. A number of States expressed the view that a capability evinented apprach focused on prohibiting specific systems would be too samme an imatificiant.

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- (g) Not to conduct destructive direct-ascent anti-satellite missile tests

States were called upon to better supervise commercial actors under their urisdiction to ensure that they did not ensage in irresponsible behaviours. It was

suggested that States commit to minimizing the intentional creation of debris, and that norms for the conduct of proximity and rendezvous operations be developed.

30 Something to think about

How can states better supervise commercial actors? Delegates should critically assess the instance, the United States's Commercial Space Launch Act (1984) has set the requirement that companies must obtain liability insurance to cover damages to third parties or other entities up to a certain amount. For damages exceeding the insurance coverage, the U.S. government agrees to indemnify (compensate) private operators up to a defined cap, with the expectation that operators will act responsibly. While private companies assume some operational responsibilities, the state remains the ultimate guarantor of compliance with international space law. Nonetheless. this raises address the growing role of the private sector. Key areas for revision might include: 1) clearly defining the extent of state responsibility for private actors, including mechanisms for ensuring adequate oversight and compliance. 2) updating liability frameworks so that they regulate private mega-constellations and the commercialization of space tourism. The OST establishes general principles but it does not address the unique challenges posed by megaconstellations and space tourism. For example, the OST does not regulate the number of satellites a state or company can deploy, leading to concerns about overcrowding in low Earth orbit (LEO). Additionally. The OST does not address the rights or protections of space tourists, leaving liability unclear in cases of injury or death. What does this have to do with preventing an arms race in outer space? First Satellites in megaconstellations often have dual-use capabilities, meaning they can be used for both civilian and military purposes. Second Crowded orbits as a result of launching megaconstellations make it harder to distinguish between benign activities and hostile actions. States can more easily launch "inspection" satellites to get a closer look at their adversaries' space assets under the guise of maintenance or debris removal. Third spaceports and launch vehicles developed for tourism could also be used for military purposes, such as deploying payloads or weapons into orbit. The notential could blur the lines between civilian and military intentions. These are just some of the reasons why the OST should be revised.

31. The view was expressed that the effective application of sanctions and export controls were useful tools in limiting the proliferation of technologies that could have a destabilizing effect in outer space.

32. A call was made for a ban on the placement of weapons in outer space and on the threat or use of force against space objects. Many States called for a broader approach to the prevention of an arms race in outer space that takes into account issues beyond the placement of weapons in outer space.

33. The political commitment undertaken by some States not to be the first to place

weapons in outer space was highlighted. It was suggested that the "no first placement" initiative had made significant contributions to international paces and security. An number of other States expressed doubt that the no-first-placement initiative met the circles of totampenetry and confidence-building measures start of confidence building (Heasures totampenetry). The start of the start based weapons that can target objects in outer starts. In definish in determining what constitutes a space weapon was inded.

34. A number of States highlighted the draft treaty on the prevention of the

placement of weapons in outer space and of the Intrast or use of force against outer space objects as a subs for the negation of a legally boding instrument. A number preventing an arms race in outer space, would not enhance space security and was not a and/ioin basis for Athune legally binding instrument. A number of the draft transpl of not address all relevant threats, including groundconsidered that the draft transpl of not address all relevant threats, including groundal Licked weightion measures.

13. Transparsers and confidence-building measures were considered to be an instruct state, and in a progress tas ker minick, such das preventions of a such as a can related be related in miscommunication, ministreparticion and inducertural relations. The wave as provides that transparses and confluence sublidge expressed that tasch measures thank if to progress and a such as a such instrument. If was as agained that any subset legitidge instrument was related to any subset legitidge content to bound, the gain of a legitidge represent that tasch measures thank if do content to bound the subtion of the subset of the subset of the subset of the subset of receiled the respect of the Grang of Genemental Experts and the Quadelines for the facility of the Subset of the

36. A number of States called for the implementation and further elaboration of

transparency and confidence-building measures, in particular those that enhanced dialogue and communication. Such measures included:

 Publicly sharing elements of national space doctrines, policies and strategies, including in relevant forums;

- (b) Transparency in the sharing of orbital data catalogues;
- (c) Reporting on military space expenditures, as well as other national security space activities, as appropriate, in their submissions to the United Nations Report on Military Expenditures;
- (d) The establishment of bilateral and multilateral systems of contact points and consultation and deconfliction mechanisms, in order to reduce the risk of escalation and conflict in space;

33 Something to think about

Many terms and phrases used in the OST are not defined and can be defined in different ways.: Here are some examples: 1) the OST states that the Moon and other celestial bodies purposes." but does not define what constitutes "peaceful." Does "peaceful" mean strictly non-military, or does it allow for defensive military activities as some states interpret? 2) States must avoid "harmful contamination" of celestial bodies. What level any alteration to a celestial body's environment prohibited, or only those deemed significant? 3) States are required to conduct space activities with "due regard" to the corresponding interests of other states. What constitutes "due renard"? This term is subjective and open to interpretation, making it difficult to resolve disputes over perceived interference or negligence, 4) The OST and related treaties such as the Liability Convention, use the term "space object" but do not define it. Does "space object" include smaller components like debris, or only fully define where "outer space" begins. The lack of a defined boundary between airspace (sovereign to states) and outer space creates legal uncertainties regarding jurisdiction and the application of space law. While the OST remains a corperstone of international space for clarifications through additional agreements.

36 Something to think about

Instead of seeking an ineffective universal agreement, sometimes regional agreements to agreements between like-minded states could achieva a bigger step towards solving the problem and pave the way for expanding the project. The Artemis Accord was signed between 40 states to date, highlights the importance of transparency and requires its partner nations to publicly disclose their policies and dans in outer space. (e) Adherence to The Hague Code of Conduct against Ballistic Missile Proliferation, in particular by States with significant activities in the area of ballistic missiles and space launch vehicles.

37. Nany States considered that the adoption of a length binding instrument says the states of a power and any care in other graces. The wire was as prepared that any states of the hand care depictures and another instructions on the parcell explorations and each memory of the states well as configurations of the states of the discussion of the states discussion of the states discussion of the states discussion of the states discussion of the states discussion of the states discussion of the states of the states

38. Nany States considered that voluntary commitments, non-legally binding glindienes and principa indices and segally binding indicates and principa indices and segally binding shows that the durate space of the second sec

VI. Observations and conclusions of the Secretary-General

39. At the seventy-sixth session of the General Assemb(). Issued a report (4/76/7) that included a consolidated summary of elements from the submissions received from Member States pursuant to resolution 5/36, as well as my observations and conclusions, which I reaffirm in their entity. The new work that has been initiated and pursued since the issuence of that report has been encouraging.

4.0. As I referred to impresson tentitie "<u>Sour Common agents</u>" <u>Ar/15/492</u>, oracle as been regended as a global common, buyon the jurisdication ary now State. The protocol tentities and the source and the source

41. Recent developments have shown that progress is governance is possible, but many paper nemi. I continue to believe that a combination of biologia and non-binding and that a combination of biologia and data with the reasons 1 proposed to comments a multi-stabilished biologia on noter space approach reasons 1 proposed to comments and that with a biologia on noter space approach agreement on the proceeding section and and use that the space of the that the state of the space of the space of the space of the space of the that Member States have expressed support for this proposed that the the United Nations system has been invited to continue environ on this proposal with the space of the space space of the space space of the space space of the space space of the space of

40 Something to think about

The Serretary-General concludes his report with this message, "Our governance and regulatory regimes require updating in line with this new era to preserve outer space as a global common." What changes will you propose on behalf of the country you have been assigned to update the regulatory regimes that governs the use of outer space?



A/77/80

relevant mandated bodies to inform intergovernmental processes as part of preparations for the proposed Summit of the Future.

42. It is recommended that Hember States study the ideas contained in the present report and consider how they can be taken forward within relevant United Mations forums, including the Conference on Disamment and the subsidiary organs and other bodies established pursuant to the resolutions of space thereasts through norms, rules and principles of repositive babwiours and the Disamment Commission.

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Annex

Replies received

A. Governments

Canada

[Original: English and French] [5 May 2022]

The present submission provides Canada's views on General Assembly

resolution 76;230, entitled "Further practical measures for the prevention of an arms race in outer space". It responds to a novel walke from the Office for Diamment Affairs carb pursuant to paragraphs? of the above-mentioned resolution, in which the Accembly request the Secretary-General to seek the view of Henefer States. Canado was becomed to submit our views previously on General Accembly resolution FISIA, entitled "Reacting gates threads through some for an accembly resolution FISIA behaviour of the secretary-General Accembly resolutions". Interface Teaching and the secretary data and the secret behaviour". This submission below should be viewed as building on those remarks.

The number of satellites in space is growing, as is the number of people benefiting from those satellites. From financial transactions to emergency response, space technology is integrated into almost every facet of our day-to-day lives. These space systems are intrinsically linked to our economy, development, and security. Yet, they are highly vulnerable to both natural and human-made threats. The adverse actions of even one state can compromise these assets and joportize access to space for all.

Canada remains convinced that the long-term viability of peaceful human

activities in space will remain precision unless the security dimension of outer space in effectively addresses (Will Canada has actively participated in effectively addresses) and the second to the second of a sum rate in outer space (Mold), we recognise the noted to muse bypace) the narrow forces on the balance of the second of the second of the second of the second states, can be an arms new, and increase the potential for conflict. In addition, that and a second second of the second of the second of the second threast against all aspect of space system, which includes statellies, the ground phenotechnic state in a constraint of the second of the second of the second threast against all aspect of space system, which includes statellies, the ground phenotechnic state in the constraint of the scatellate.

Canada recognizes that threats to the stability and security of outer space are driven by more than just military capabilities.

Lack of trust: Security is not simply a matter of weaponry. It is also driven by perceptions of others behaviours and actions. An environment where there is a low level of confidence between states fuels uncertainty regarding the intended use of military capabilities.

Miscalculation: States can have different assessments over the degree to which

they perceive certain actions or activities as threatening. This discrepancy can lead states miscalculating the risk associated with and consequences of their actions.

Misunderstanding: The dual-use nature of space technology creates the possibility that states will misunderstand the intentions of other states. This is

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further compounded by the unique nature of the space domain in which knowledge of the operating environment is inherently difficult. This can lead to unintentional escalations.

Provisions of guarantee to enhance space security

Canada views provision of guarantees as those measures that, in combination and over time, would limit the drivers of an arms race and promote the safety, security, and sustainability of outer space. No single mechanism, binding or voluntary, can guarantee PAROS. Bather, a combination of pragmatic, reliable and holistic measures offers the best chance of achieving that objective.

Since the concept of PAROS was first introduced at the First Special Session of UN General Assembly develete to disramament in 1978; It has never mandated a particular instrument. As such, when considering measures that would enhance space security, we should not limit ourselves in the mechanism at our disposal. It is important to note that these instruments are not mutually exclusive and do not rule out the eventual adoption of stronger measures in the future.

Existing international law: Canada remains fully committed to the international legal framework governing the use of space. Ratification, national implementation, and adherence to key space treaties and other international instruments contribute to a more predictable space environments.

Sanctions and export control laws: These foreign policy tools can be effective

and appropriate measures in restricting the proliferation of certain technologies, thereby contributing to the stability of space.

Politically binding instruments: Voluntary and non-binding norms, rules and principles can provide a pragmatic first step to developing consensus on responsible behaviours in space, and form the basis for future legally binding measures. By supporting security and stability in space, they also create the environment of trust conducive for more ambitious negotiations between states.

Transparency and confidence-building measures: Transparency and confidence-building measures are useful mechanisms that can help avoid misunderstandings and miscaloulations. Given the dual-use nature of many space assets, transparency and confidence-building measures can help alleviate exchange of information is a simple and effective way to ensure transparency regarding space activities, and good communication is key to building trust.

Legally binding instruments: International treaties can codify accepted behaviours and standards between states into law. While it signifies a stronger commitment by states, it does not necessarily guarantee a more effective outcome or greater compliance than other instruments.

Criteria of effective provisions:

Reaching consensus on an agreement, binding or non-binding, does not guarantee PAROS or increased space security. Canada has long reiterated that agreement must meet the following standards:

Precise definitions: The terms of an agreement must be defined with reasonable

precision so as to minimize ambiguity and contradictory interpretations of the rules. While some have argued "constructive" ambiguity may be necessary to foster consensus and the eventual adoption of an agreement, such an approach

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should be used cautiously. It is essential to come to a shared understanding of the nature of an obligation – a commonality of mind – in order to ensure that parties apply the same standards when judging the compliance of others.

Comprehensive scope: The best way for a mechanism to increase space security is for the scope of the agreement to biolicitally addresal affrates. It is important to highlight that space systems include neg just statellites in space host all the elements needed to function such as group in distaturcitors and data links. They are vulnerable to a broad range of traditional and emerging threast originating on earth or in space. A narrow focus on certain technology of rotations alone cannot ensure stability if other threast to space systems and actors remain unadressed.

Effective provisions for verification: States will only agree to restraints if they

can be provided assumances that all parties are equally living up to the commitment. The terms of the agreement should use precise language to specify what compliance and non-compliance would look like and how it would be measures should be practical and effective. When compliance is called into question and verification provisions are inadequate, the confidence in the system declines and our ability to meet PAROS diminister.

Recommendations to enhance space security

Canada verses the development of energy or happensible behaviour as the most more performed energy of the second second

Decades of discussion on PAROS has not yielded tanglible outcomes. It is time to shift the focus to a more holdistic approach that encompasses a number of different mechanisms to establish responsible behaviours, thereby resulting in long-term space examiny. By foreing greater confidence and transparency in the space environment, could govern space. Canada looks forward to further engineem that con this important issue.

Chile

[Original: Spanish] [6 May 2022]

Chile considers that outer space should be explored and used for peaceful and

scientific purposes only. One such use of outer space is as a vantage point from which to observe various Earth-based phenomena that are of interest to humankind. International cooperation in the use of space science and technology should therefore be promoted so that countries can benefit from space-related knowledge and applications, and thus help to address global challenges through initiatives such as the development of products that have an impact on people.

The 1967 Treaty on Principles Governing the Activities of States in the

Exploration and Use of Outer Space, including the Moon and Other Celestial Bodies, should be updated to include a reference to Member States' renewed commitment to the preservation of outer space as a neutral zone for scientific and technological development.

It is necessary to raise international public and social awareness of the 1972 Convention on International Liability for Damage Caused by Space Objects and thereby establish an informative process to influence decision-making by States involved in space development.

It is also essential to update and raise public awareness of the 1976 Convention

on Registration of Objects Launched into Outer Space in order to create a general understanding of the importance of registering and knowing the characteristics of space systems launched into space.

Member States should be requested to ratify the 1984 Agreement Governing the

Activities of States on the Moon and Other Celestial Bodies and to encourage other States to do the same.

Furthermore, it is necessary to update and publicly disseminate (i.e. create a process to raise international social awareness of) the following instruments:

1. The 1963 Declaration of Legal Principles Governing the Activities of States in the Exploration and Use of Outer Space

2. The 1982 Principles Governing the Use by States of Artificial Earth Satellites for International Direct Television Broadcasting

3. The 1986 Principles Relating to Remote Sensing of the Earth from Outer Space

 The 1992 Principles Relevant to the Use of Nuclear Power Sources in Outer Space

China

Original: Chinese] [29 April 2022]

As a global commons, outer space is closely linked with the security and welfare

of humanity, and embodies the essence of a community with a stateed future for humanity. The 65 year history of human development and use of outer space clearly shows that while outer space is playing an ever more promisent role in driving luman civilization forward and promoting economic and social development, security challenges and threats in outer space are also on the rise. In particular, the growing rise of the years of the state of the state of the rise of outer space.

Preventing as arms race in outer space and ensuring that it is used for pagedity purposes are the common consensus of the international community, and are also the highest priority and most pressing task and goal for outer space security. In recent upers, a certain suppower has been califable up plass and actions to pursue unlateral military and strategic advantage and gain control of doet space. The triang tension between the urgent needs of countries to salignard the security of outer space and promote its paceful uses and the supersystem's pursuit of dominance in outer space and there expected fundances of the interimination in the space and promote its paceful uses and the supersystem's pursuit of dominance in outer space has three respected fundances or of the existing international legal.



instruments on outer space in meeting new challenges. It is therefore imperative for the international commonity to take (urther paratclas measures as soon as possible to close the loopholes in existing international law by negotiating an international legally binding instrument on the prevention of an arms race in outer space (PAROS), with a view to providing the most fundamental and effective guarantees for PAROS and the paeadful uses of outer space.

Overview of the current security situation in outer space

Outer space is of vital importance to the security and welfare of humankind. With their interests closely intertivined, counties share weal and woe in outer space. In recent years, more and more countries have become extensively and deeply engaged in space activities, and come commercial institutions are also getting number of stakeholders in outer space, maintaining lasting peace and security in this new domain is becoming ever more important.

At the level of safety, the significant increase in outer space activities and

participants has entailed problems such as orbital congetions, collision relax and space within the proceedings to the log given suchashilty of outer space and brains. At log start space has a constrained on the start space of the start of outer space and has or of outer space and startfield, and undernot outer space of outer space and has not one start space and startfield, and undernot outer space and has not one start space and startfield, and undernot outer space and has not one start space and the start space has a start of the starte outer of protony, and their resultions these two levels are not of the starte outer of protony, and their resultions representing their order of importance. If the weaponstation of and an arms space in out of outer space.

Currently, the risks of the weaponization of and an arms race in outer space have become more real and urgent, as mainly evidenced in the following three areas:

First, the atmosphere of competition and confrontation in outer space is

intensifying. Prooccupied with major Power competition in outer space, a certain superpower persists in hyping the threat posed by other countries and provoking military conforntation, while at the same time insisting on the importance of maintaining its own global leaderthin in outer space. This sort of hegemonic thinking and Cold War mentality are the fundamental motivators of the growing risks of the weaponization of and an arms race in outer space.

Second, the tend toward turning over space into a battelistic is glaining momentum. Dice is a certain superproper, and the constants and million block have independent toter space milliony agencies, continuously ramped up military space. In terminent, speed on the development of our space can be space and milliony allances, and comprehensively advanced was prepareflexes in outer space. A certain allance, the share space is the spectra of the space of

Third, the fragility of outer space security is becoming more apparent. A certain superpower, being the first country to conduct anti-satellite weapon tests in outer space, has carried out more such tests and created more space debris than any other country. Its continuous development of global missile defence systems and long range, high speed precision strike weapon poses a serious threat to outer space.



security and global strategic stability. The country loss also frequently tested bigh and low orbit proximity recommissance and renderowas technology, bejoned an upgraded Counter Communications of system (CCS) which can jum and even interrupt the stabilite communications of adversary countries, and used low farth orbit commercial satellite mega constabilitions such as "Statified" and for the encources in space and interfere with the normal outer space activities of other countries. These activities threaten the safety of outer space assets and satromauts and increase the rink of conflicts in outer space.

Existing safeguard measures and international PAROS efforts

П.

When humanity first began to use outer space, the international community had the oriengial to commit lead to preventing outer space (non backing a new battlefeld outer space) and the space of the a resolution on the question of the peaceful use of outer space, which clearly expressed had been as a space of the space of the

The legal regime: From the 1960s to the 1970s, the international community

formulated a series of international legal instruments such as the Outer Space Treaty, which established basic principles like the peaceful uses of outer space and incorporated the elements of PAROS. For instance, the 1963 Parial Test Ban Treaty prohibits nuclear weapons tests and nuclear explosions in outer space, and the 1967 Outer Space Treaty bans the stationing of nuclear weapons or other weapons of mass destruction (WMO) in outer space by the States Paries to the Treaty.

The legal regime, which is conducive to preventing the deployment of WHO as well as the conduct of other military activities in under space. An applied an important role in ensuing the paperduin nature of outer space. However, these instruments have enther hanned the deployment of veganos test than WHO in outer space. And a space of the space of the

In this contrast, starting from 1941, the General Assembly has adopted, one any hysician and by overheading majorities, resolutions; calling on the Conterence of Biasmannet to suggissing a new international leggl instruments or RARS, which is a series of the starting o

Unfortunately, a certain superpower, unwilling to subject the development of its military capabilities in outer space to any substantive constraint, has long stood in the way of the outer space arms control process. It has totally rejected the PPWT text proposed by China and Russia on technical grounds, and even single handedly.



blocked the adoption of a report by the United Nations Group of Governmental Experts on PAROS, thus bringing international efforts in that regard to a standstill.

Transparency and confidence Duilding measures (TCBHs): In an important step found PAROS, the international community has made some progress on TCBMs. In 2013, the Group of Governmental Experts on TCBMs in Outer Space Archives aborden a poper forporing a careful volumity measures such as transparency of outer space facilities. In 2015, the United Balance Office for Outer sources of the space facilities. To 1015, the United Balance Office for Outer academic of the space facilities. To 1015, the United Balance Office for Outer academic of the space facilities. To 1015, the United Balance Office for Outer Activities, which laid out specify provident on foscal points, space conjunction Activities, which laid out specify provident on foscal points. To pace conjunction

These TCBMs play a positive role in preventing an arms race in outer space, but are implemented on a volutrary basis and new to flagily hinding. They cannot effectively define the legal boundaries of military activities in space, or fundamentally restricts and activities a conducted by some counties, nor can they promptly and effectively respond to threast of the weaponization of and an arms race in outer space. Therefore, the TCBMs can only serve as a supporting the legally binding instruments, but cannot replace the negotiations on legally binding Furthers safetarading measures that can be taken by the

Further safeguarding measures that can be taken by the international community

III. international commun

Under the current circumstances of outer space security, the international community needs to strengthen its situational assessment, locate the root causes of problems, strengthen international cooperation, and adopt a multi-pronged approach in order to provide effective guarantees for preventing an arms race in outer space and preserving outer space for praceful purposes. China believes that the international community could take the following additional measures:

First, embrace a vision of common, comprehensive, cooperative and

sutainable global security. All countries should uphold the concept of building a commonity with a should have for humanity, and work together to make outer space a new frontier for win win cooperation, not a new battle field for competition and conformation. The county with the most powerful space capability should earneestly assume its special responsibilities, abandon the unitaterual approach of seeking abalotite advantage, abalotite freedom and abalotise security in outer space, and change these ecurity strategy that puts the security of a certain country or bloc over that of other countries.

Second, persist in advances on performance on an international legably leading instrument on our due space anti-concision if we net to activity support the formably bunching negotiations, as behavioral operating popole could be established to interface in approximation, as behavioral operating popole could be established to activity of the space of the space of the space of the space of the distribution of the space of the space of the space of the space of the distribution of the space of the space of the space of the space of the distribution of the distribution of the distribution of the space of the space of the space of the distribution of the distribution of the space of the space of the distribution of the dis

Third, complement the process with appropriate TCBMs. While focusing on

the ultimate goal of negotiating an international legally binding instrument on outer space arms control, countries also need to strengthen dialogue and communication, continuously bridge differences and broaden consensus, and explore appropriate and feasible TCBMs. Countries should take concrete steps to avoid drawing ideological lines or overstretching the concept of national security, and remove intentionally created scientific and technical obstacles.

Fourth, regulate the participation of commercial space enterprises in outer space military statistical training and an enterprises of outer statistical enterprises in military statistical biological participation of enter commercial space militarios. Commercial enterprises and the sequence of the expansion activates. Commercial enterprises and a tetrageneous the supervision activates. Commercial enterprises and a tetrageneous Moreover, they should constrain their commercial space enterprises to make pages Notework (they should constrain their commercial space enterprises to make page of enterprises). The particular of a developing commercial to the paraeth. Constra parts and the supervision of the statistical activation space and the state space states of the states and the states and the states. The state space and the states space transmission space and the states and the states

China kindly requests the Secretary General to take the position of China into account in his substantive report pursuant to operative paragraph 7 of General Assembly resolution 76/230 of 24 December 2021 and to include this document as an annex to his report.

Cuba

[Original: Spanish] [22 April 2022]

Outer space should be explored and used for the benefit of all peoples,

irrespective of the degree of their economic or scientific development, as space is a common good of humanity that should be used exclusively for peaceful purposes, without discrimination.

The placement of weapons in and the militarization of outer space, together with the continuous development and improvement of such weapons, are serious threats.

There exists a common responsibility to prevent outer space from becoming a

theatre of war; that would not only permanently destroy the promising future of space applications as drivers of the sustainable development of the human species, but would also geopardize the very existence of that species.

Existing disarmament and arms control agreements with an impact on spacerelated activities, including bilateral agreements, must be strictly observed.

The current legal regime applicable to outer space does not by itself guarantee

the prevention of an arms race in outer space. It is therefore necessary to consolidate and reinforce that regime.

The establishment of non-binding norms should only be an intermediate step towards the adoption of a legal instrument.

One example of a practical measure is the conclusion of a multilateral treaty to

prevent an arms race in outer space and prohibit the placement and use of weapons in outer space. The adoption of such a tready should be a priority for the international community. The draft treaty submitted by Russia and China to the Conference on Disarmament in 2014 could be a sound basis for the initiation of negotiations in that regard.

We reaffirm our staunch commitment to not be the first to place weapons in

outer space. That commitment is a useful confidence-building measure for preventing an arms race in outer space.

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Initiatives to promote cooperation and assistance relating to outer space must be strengthened, and countries that are more advanced in the use of space-based technology must provide support to developing countries.

Exchanges, technical assistance, technology transfer and the peaceful use of outer space for the economic and social development of all nations must be promoted. We reject the imposition of unilateral coercive measures and political manipulation, as they hinder such development.

France

[Original: French] [6 May 2022]

In the resolution entitled "Further practical measures for the prevention of an

arms race in outer space", introduced in the First Committee of the United Nations; States are asked to submit proposals concerning "guarantees for the prevention of an arms race in outer space and preserving outer space for peaceful purposes".

France, like several other States, voted against General Assembly resolution

76/230, proposed by Russia, because it is not consistent with the destabilizing behaviours and activities carried out by Russia in space, as confirmed by the Russian anti-statilite launch in November 2021. However, France fully supports the international discussions under way within the framework of the United Nations aimed at concretely improving space security for all actors, including through the establishment of norms, rules and principles of responsible behaviours in space.

The adenda item entitled "Prevention of an arms race in outer space" is addressed by the Conference on Disarmament, following the establishment of an adhoc committee on the prevention of an arms race in outer space pursuant to a General Assembly resolution in 1982. The concept of "limiting the arms race" in space emerged at that time in the very specific context of the Cold War, when improving collective security was essentially viewed in terms of "arms control". That was, for example, the case regarding nuclear weapons with the Interim Agreement between the United States of America and the Union of Soviet Socialist Republics on Certain Measures with Respect to the Limitation of Strategic Offensive Arms, the Treaty between the United States of America and the Union of Soviet Socialist Republics on the Limitation of Strategic Offensive Arms, the Treaty between the United States of America and the Union of Soviet Socialist Republics on the Reduction and Limitation of Strategic Offensive Arms, the Treaty between the United States of America and the Union of Soviet Socialist Republics on the Limitation of Anti-Ballistic Missile Systems and the Treaty between the United States of America and the Union of Soviet Socialist Republics on the Elimination of Their Intermediate-Range and Shorter-Range Missiles. It was that assumption that led to the introduction of an agenda item entitled "Prevention of an arms race in outer space". However, from the outset, the committee has given broad consideration to many aspects of space security including the security environment, proposals related to the existing agreements on space activities and new proposals for improving space security.

Today, in view of the developments in the space domain, the highly dual-use nature of the space environment and capabilities, and the security issues, the agenda item entitled "Prevention of an arms race in outer space" should be understood in provad terms and should include all threatening and destabilities (the state of an international state) and the space should be also all the state of a or maintaining space.



I. A deteriorating strategic context in which space threats are increasingly present

The strategic center has deteriorated, with increased milityry competition is all arrays, including in space, which paradically paradite to be adoptiment of both strategies and the capabilities. The return is the logic and strategies of power, the multiplication determines that are strategies of paraditability and even as correct the storage and the capabilities. The return is the logic and strategies of power, the multiplication control and the capabilities. The storage of power, the multiplication of control and the storage of the storage of the storage and the control and the storage of the storage of the storage of the storage results and the storage of the storage of the storage of the storage of the programmes in order to improve ballicitic programmes, in valuation of Security Current results, which allowed in the storage conversions, which also

Anti-satellite launches, most recently carried out by Russia in November 2021,

hostile proximity manoeuvres and pre-eminence strategies reflect this heightened strategic competition and may increase the risk of misunderstanding, be destabilizing and lead to growing tensions in space.

The deteriorating strategic context is particularly problematic because States are

increasingly dependent on the space environment for their economies and societies and for their defects cinterest, which may make them more vulnerable. They are therefore seeking to develop new tools and capabilities to reduce those dependencies and vulnerabilities. Conversidy, some States are far less dependent on the space stabutage strategies in space, with little concern for the viability of space activities or the sustainable set or forks.

At the same time, the risk of misunderstanding and miscalculations in space is

Increasing applicability. The volume of depicts in orbits in the space environment in an experimental environment of the second second second second second second applicability of the second second second second second second second applicability of the second second second second second second the size of minimum second control applicability of the second control applicability of the second second

Space is a domain which spatient as it tagly dual-use and knowledge the the space of the spatient space of the spatient spatient



an innocuous manoeuvre of a statility, related to its mission, that leads to an accidental collision or jamming, from a manoeuvre almed at intertionally causing ham. This difficulty, which is compounded by the highly dual-use nature of the space environment, poses a significant risk of an uncontrolled escalation or outbrack of a conflict in space. The concept of "behaviours" seems to be much more relevant to improving space security in general than the concept of "prevention of a sum scace"

п.

It is important and valuable to establish instruments that ensure the passedul use of, and there access is, passed by all, and that limit the risks of extendibulization and context in firms access is, passed by all, and that limit the risks of extendibulization and context droug of Governmental Experts on Further Particula Neasures for the Prevention of an and Race in Outer Space, the proposal put forward did not meet consensus and could not be decided on , resulting in a deadlock. It is therefore essential to develop a new and on the decided on the other other and the other other decides and the space.

In that connection, a capabilities-based approach aimed at prohibiting certain

system does not seem appropriate or effective. A large proportion of space assets are non-uclai-use, mainly efficient to distinguish between military and civilian capabilities and between threatening and benign capabilities and, utimately, to decide which capabilites prohibit. Note foradity. Frace recalls the challenge of defining what constitutes a weapon in space, as any space object (for example, kamikaze astillete) can be used a weapon. Certain capabilities that are necessary for example, tamikaze adalities, can be used to a vageon, certain capabilities that are necessary for example, tamikaze adalities, can be used for adgressive propose.

A behaviour-based approach is the most appropriate way to improve space security pragmatically and immediately, as such an approach will make it possible to reduce the risks of misunderstanding and misconceptions in space.

By establishing guidelines for the conduct of certain activities so that they are not perceived as a gyresvie, this approach aims to reduce the destability gotential of those activities and the risks of conflict and escalation in space. Furthermore, such an approach, which is focused on the effects of behaviour on space systems, the environment or communities, is more sustainable as it is unaffected by future technological developments.

Moreover, this approach is not inconsistent with moving towards a normative

approach that prohibits behaviours, for example. In view of the threat to safety and security in space posed by destructive anti-satellite launches and the intentional creation of debris. France has been advocating a norm prohibiting actions that create multiple pieces of long-lived debris since the adoption of its space defence strategy in July 2019.

These behaviour norms would thus not be intended to modify applicable international law such as the Charter of the United Nations, including the right to selfdefinoc. However, they could later serve as a basis for discussions on the establishment of a legally binding treaty, if a consensus was reached and verification mechanisms could be established.

Safeguards to improve space security in a pragmatic and concrete way

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With its partners, France is therefore proposing the establishment of pragmatic, immediately applicable and non-legally binding norms that would constitute the first step to improving space security. Such norms would make it possible to define, at the



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intensitional level, the behaviours that are considered responsible and threatming or non-treatening by States, and thus to improve the predictability of reactions to certain activities in space. These norms would thus not be intended to modify applicable intensional law cards are the Charter of the United Nations, including the right to self-defence. The establishment of such norms, however, would also help to create a periminary concents with the intensional community, which could be a first step towards, a legally binding instrument when the strategic context allows it and if establishment of the strategic context allows it and if

The norms proposed by France relate to three categories of behaviour: (a) intentional behaviours with a potentially significant impact on the space environment; (b) behaviours that present a risk of misunderstanding; and (c) behaviours potentially affecting the security of persons and property. Homms relating to intentional behaviours with a potentially significant impact

(a) on the space environment

France is in favour of adopting two such norms:

1. States should refrain from intentionally or knowingly creating multiple pieces of long-lived debris.

States should avoid and, in any case, minimize the intentional creation of debris.

(b) Norms relating to behaviours that present a high risk of misunderstanding and could be addressed through confidence-building and transparency measures

As the number of rendezvous operations and proximity manoeuvres is likely to increase, this issue must be addressed as a matter of priority in order to reduce the risk of misunderstanding and misconceptions in space and to leverage the opportunities provided by the associated capabilities (for example, on-orbit servicing and active debris removal).

Rendezvous operations, including active debris removal, pose a high risk to the

space objects being approached. When consent has not been obtained for a rendezvous operation, such an operation may, under certain circumstances, be interpreted by the targeted State as an attack aimed at destroying or causing the loss of control of the space object being approached or inspected.

Therefore, France considers that such operations should be subject to the prior and explicit consent of the relevant State.

The establishment of norms relating to proximity manoeuvres could also be

considered, although such manoeuvres are more difficult to regulate than rendezvous operations.

(c) Behaviours potentially affecting the security of persons and property

France is in favour of establishing guidelines for two particularly dangerous types of behaviours that disturb space objects: behaviours potentially leading to the interversible loss of control or functionality of a space object; and behaviours potentially affecting the security of persons and property. Other confidence-building and transparency measures designed to ensure an Other confidence-building and transparency measures designed to ensure an

(d) optimal, more responsible use of space

States could be expected to take the following measures:

- Share orbital data catalogues transparently. This would be a prerequisite for implementing a proximity manoeuvre notification system, avoiding in-orbit

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collisions and enhancing awareness of the destruction and loss of control of space objects.

 Adopt and implement appropriate measures to ensure that national non-State space actors adopt these responsible behaviours. States should not knowingly allow space objects under their jurisdiction to engine in irresponsible or threatening behaviours, and should not allow their territories or facilities to be used for enging in such behaviours against space objects.

 As a confidence-building measure, consider and promote the signature of, ratification of and accession to relevant treaties.

 As a transparency measure, States should publicly share information about their space doctrines, policies and strategies, including in relevant forums such as the Conference on Disarmament.

 Lastly, as in other domains that are not space-related, States should establish bilateral or multilateral systems of points of contact and consultation and deconfliction mechanisms in order to reduce the risk of escalation and conflict in space.

Germany

[5 May 2022]

General Assembly Resolution 76/230 on "Prevention of an arms race in outer

space: further practical measures for the prevention of an arms race in outer space requests the Secretary General to see. "The views and proposals of Member States about the provision of guarantees for the prevention of an arms race in outer space" and to submit as substantive report to the General Assembly at its upcoming session. This paper represents the national contribution by Germany on its views on preventing an arms race and on miliging threats and becurity risks in outer space.

Introduction: Guarantees are inadequate for the prevention of arms races

1.

Legally binding instruments, political commitments, norms of behaviours as well as transparency and confidence building measures are core instruments for annucontrol and risk reduction in many domaine. They complement each other by serving specific payooses, they are noted reflective if they form a verifiable fabric of obligations, state practice, and velocitary measures underpinned by good intermines. Secondry, paracleuily to dis invoir searce, where gavantees will be difficult to offen and verify, the is rather a competensive and pragmatic approach we need towards outer space security.

At worst, calls for guarantees may provide cover for fraught intentions. The

Readian Federation has for many years called for gauzentes to proved an arms race to not other space - year has application against threads in taxos of the non-blantar alms in class contradiction with Readia's current aggressive actions in Utraine, hashing the security gauzentes Readiated as a control in the admission of the security gauzentes Readiated as a security gauzentes reading hashing in tracking in aggressive and any security gauzentes reading hashing in tracking and generessite and lucations and tracking and the security gauzentes Readiated interactional gauge to the security gauzentes Readiated interactional gauge the security driver for instability, insecurity and minis area in the desting the standard metacolation, estability and considered and the security of the security metacolation, estability and considered and the security of the security and the risk of the metacolation, estability and considered as a constrained and the risk of

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Russia's breach of International Law and past commitments has also a profound negative impact on disarmament, arms control and non-proliferation. However, progress is needed today more than ever, including outer space security. A broader approach towards PAROS

2.

Germany remains strongly committed to enhancing security in outer space and to preventing an arms race in outer space. Outer space must remain a peaceful, safe, stable, secure and sustainable environment for the benefit of humankind.

States around the globe become more and more dependent on space assets for

their prosperity, safety and security. Conflict in outer space would not only affect the states involved in the conflict. The consequences of the loss of space-based services would be immense and the space debris resulting from conflict would likely harm numerous states not party to the conflict. Progress on space sustainability and security is needed more than ever. This requires a multitateral, inclusive process.

The traditional notion of "preventing an arms race in outer space" dates back to

the bipolar great power competition between the United States and the Soviet Union during the GUM ware holdings on the idea and man cate tailing place between great powers. Today, outer space security is an essential security issue for all states, not just for great powers or space-hing radions. We should therefore breaden our scope and discuss and negotate measures to increase stability and predictability and to foster transparency and conflicts in passes are infligated and states have no incentive for contenting outer space or engaging in ann zease.

Secondy, hulling the manufast of PARDS is not restricted to taking "measures to prove the second second second second second second second second second through norms, rules and principies of responsible bahaviour of 13.13, 2022, and the data second rule and second second second second second second second rule and second second second second second second second rule and second second second second second second second rule and second rule and second second second second second rule and second rule and second sec

Behind this background, we do not believe that the Russian/Chinese draft treaty on the prevention of the placement of weapons in outer space and of the threat or use of force against outer space objects referred to in resolution 76/320 adequately responds to the objective of strengthening trust and confidence between States, increasing security and preventing an arm race to noter space.

Firstly, it only covers space-based systems. Ground-based counter-space capabilities – like the Nudod-missile used in Russia's irresponsible 2021 AST-test – but also means of electronic warfare or cyberattacks which constitute significant and serious threats to space systems and the space environment, are not explicitly included in the scope of the treaty. It also cannot address risks emanating from the dual-use

¹ For examples see German national contribution to the Secretary-General in reference to General Assembly resolution 75/36 on norms, rules and principles of responsible behaviours in outer space (page 6) in the attachment.



nature of space systems. Ambiguities regarding the capabilities of certain objects and regarding intentions of their use could lead to misinterpretations, misunderstandings and miscalculations and could consequently increase the risk of conflict in space.

Secondly, the draft treaty on the prevention of the placement of weapons in outer space and of the threat or use of force against outer space objects has no workable definition of a space weapon and no verification measures.

Thirdly, Russia and China have failed or exceeds their a gords with the fact models and their – despite distribution is province in gords and a most scale on any scalenic scale of the or which systems. Causes is point and the latest DA-ASD test of Russia from 51 Normative 2011. In the scale scale of the scale scale of the scale scale of the scale scale of the scale

Developing, testing and fielding counter-space capabilities, which are not in line

with a defensive posture, trigger threat perceptions that may result in misunderstanding, miscalculation and escalation spirals as well as an accelerated arms race.

We therefore believe the approach in the draft treaty on the prevention of the

placement of weapons in outer space and of the threat or use of force against outer space objects is neither feasible nor adequate for preventing an arms race in outer rough the space of the space o

space. How to enhance security and confidence in outer space?

3.

Taking into account that threat in outer space cannot be dediced from objects or capabilities along, buff from a combination of capabilities and behaviour, we believe the most pragmatic and realistic ways to increase security and to prevent misperception and microalisations at the point in time is to agree upon norms, rules and principles of transportable behaviours and to increase transparency and predictability of space activities. Behaving proposition in contexpane transparency and predictability of space transported behaviours and to increase transparency and predictability of space activities. Behaving the proposition in contexpane transparency – inflaming from actions, operations and activities possig a threat to security and stability of that midd teach is misoreceived as contexpane.

We therefore call on all states to constructively engage in the incremental and

Inclusive process offend by the open-ended working group on reducing space threats through norm, nuclea and principles of responsible behaviours which will start its work in May 2022. Our geal remains an increased shared understanding and summerss of threats and security risk related to outer space and an actual agreement on and implementation of rules of responsible behaviours. We would like to refere to the Geman national contribution to the Sectarray-General in Preference to General Azembly resolution 75/36 on norms, rules and principles of responsible behaviours in outer space in the atchement for more detail.

Ultimately, this might help building trust to then take more ambitious steps potentially leading to a comprehensive, effective and verifiable legally-binding instrument designed to cover the relevant threats related to outer space.

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Honduras

[Original: Spanish] [29 March 2022]

With regard to the request from the Office for Disarmament Affairs addressed

to Member States concerning compliance with General Assembly resolution 76/230, relating to the agenda item "Prevention of an arms race in outer space", thether practical measures for the prevention of an arms race in outer space", the Government of Honduras sets out its views below.

The use of outer space must be subject to regulations, as set out in an international legal instrument governing the acts and activities of all interested parties, in order to prevent an arms race in space. Outer space should be used solely for peaceful purposes and for the benefit of humankind.

Japan

[4 May 2022]

Today, all states are reliant on space systems for peace and prosperity on Earth. As such, space security, which underpins the safe operation of space systems. is of utmost importance for all, and the prevention of an arms race in outer space (PAROS) is crucial in achieving space security. Since space systems provide fundamental services for our daily life, such as satellite communication and positioning, navigation and timing, as well as their critical application including air and maritime traffic management, interference with those services could lead to enormous economic loss, serious social disorder, and, in extreme cases, loss of lives. The increasing number of both state and non-state space actors and the diversification of their activities raise potential risks of misunderstanding and miscalculation, which could escalate tension and entail conflict. From an arms control perspective, space systems play an essential role in deterrence and strategic stability as they are used in, for example, missile warning, nuclear command and control), and verification of arms control instruments. Further, the development and deployment of counterspace capabilities as well as insufficient transparency regarding doctrines, policies, and activities, are calling for the attention of all states.

PAROS requires a different approach from that of traditional arms control due

to unique features of space domain. In particular, outer space is a domain where even innovative technologies developed with beingin intention may, if used inappropriately, pose a serious threat due to their dual-use nature. In turn, this dual-use nature brings complexity to verification, which is no or of the sestential component of all arms control instruments, and poses difficult challenges in identifying space threats through locasing teally on objects or their technological capabilities.

Against this backeton, three is a pressing need to deepen understanding on the start of play of passes activity and to develop monous inderstanding to the statelet start of play of passes and the start of the st As a wy to achive PAROS, Japan underscore the importance of transparency and confidence-building measures. For example, Immeusions cluch as The Hage Code of Conduct against Balliatic Hissile Polleration have made an important contribution te mance transparence and confidence-building in laund achivities through concrete implementation by subscripting states. Japan considers that through concrete instance/fatoredit-adaption, Justicega et Management analysis, Justicega Exhibitions. The Transparency and Confidence-building Measures in Outer Space Activities.

Japan is of the view that the open-ended working group on reducing space threats through norms, rules and principles of responsible behaviours provides an important and inclusive opportunity for the international community to pursue these efforts, which mitigates threats through reducing risks of misunderstanding and miscalculation and contributes to PAROS.

Netherlands

[28 April 2022]

Introduction

Space tectology is present all over our planet in numerous and other critical concentration, accurate concentration of the second second second second related infrastructures for communication, navigation and event observation, Satelline in to longer margine our "sears" readed institute relation excited relations, and we can no longer margine our "sears" readed institute relation excited relations, the use of precision gladed multitories, and lengthmer and the second second second precision gladed multitories, and lengthgene and precision second or statilities imagers developed multitories, and institutes on accurate grant second on second second second second second second second second second precision gladed multitories, and lengthgene analyses based on satelline imagers.

In recent years, the space domain has become increasingly congested and

contested. Nore and more countries are developing capabilities with which they can line of verse day they used 'access to pace sosts. Also, sponteers and a sangle of private technological soluces: Is tagbit orgination in the private sector and a sangle of private between civilian and thinky varged of pace a becoming increasingly complex. The nature of the space domain together with the technological sophistication and dual technological technological solutions and defence sangle of pace. Altihologith the division is based on doctinal choices and fenet, practical measures and instrumentation in the space doctinal choices and setting solutions.

Preventing an arms race in outer space

To prevent such an arms race in outer space, it is important that the international community continues the multilateral discussion about PAROS and related further practical measures. Hence, the Netherlands supports General Assembly resolution 76/230, as well as resolution 76/55 on transparency and confidence-building measures in outer space activities that can threfree contributes to the overall goal of PAROS.

As indicated in the introduction, the increasing number of activities in space

create new vulnerabilities that can lead to major disruptions in economic, social and security terms. These apply to all states and thus entail a joint responsibility to address these and mitigate contemporary threats. Space cannot be claimed at a national level

and no country can operate independently in outer space without affecting others. Hence, establishing a shared vision on this theme is more important than ever. In this context, the Netherlands emphasizes potential practical measures such as increased transparency, direct lines of communication, and a focus on confidence building measures, such as delivered in 2013 by the Group of Governmental Experts on Transparency and Confidence-building Measures in Outer Space Activities to minimize the risk of miscommunication, misinterpretation and inadvertent escalation in the snace domain. Moreover, the Netherlands published a translation of our national space security policy and supported the publication of an unclassified version of NATO's space policy. Such practical measures are even more important than ever given the current security environment. Multilateral engagement in fora such as the Conference on Disarmament and the recently established open-ended working group on reducing space threats through norms, rules and principles of responsible behaviours, but also related instruments such as The Hague Code of Conduct against Ballistic Missile Proliferation, can bring such measures to further fruition

Militarization versus weaponization of space

The Netherlands recognizes the importance of space for military operations within the applicable suiting interactional frameworks. Such military operations can take various forms: military activities can be conducted from, in, through and towards outer space. As a state party to the tive United Mations tradeise on outer pace, the outer space. As a state party to the tive United Mations tradeise on outer space, the subscription of mass destruction should be placed in orbit, around Earth or on any cetestial body.

Given the dual-use character of current sophisticated space technologies, the

absence of a broadly supported definition of a space weapon, and the increasing difficulty to differentate between the offensive and defensive character of space technologies, the Netherlands makes a clear distinction between the legitimate military use of space in a responsible manner, and the weaponization of space that the Netherlands clearly opposes in the discussion. Towards a robust system

In our view, the current situation shows that the existing system of space governance is not yet sufficiently robust to guarantee unrestricted access to space systems by all states, now and for fluxue generations: We believe that improvements should be based on further development of regimes concerning the safe, secure, and sustainable use of outer space and on behaviour and its consequences.

Although resolution 76/230 focuses on the "guaranteed prevention of an arms

race", in our view such a guaranteed prevention in practice proves challenging to achieve. It remains unclear as well how the provision of such guarantees should be further structured. Hence, it is important that within the framework of this broady supported resolution. Unline Nations Hennet States share there wire in other provision of guarantees for the prevention of an arms race in outer space and where the state of the structure of the such and the structure of the interactional dialogies on this matter and reduce the potential for an arms race in outer space through an inclusion process.

In this context, threats from the ground such as ASAT-systems continue to be a

matter of great concern to the Netherlands. These ground-based threats have not yet been included in the draft treaty on the prevention of the placement of weapons in outer space and of the threat or use of force against outer space objects, nor in the proposed political commitment for a "no first placement of weapons in outer space".

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This is among the underlying reasons that we cannot support these initiatives in their current form.

However, it is a positive development that ground-based threats have been incided in Bernard Anamound commitment by a Dhied Nations, Nember State welcomes the recently announced commitment by a Dhied Nations, Nember State to conclud defectives, and we can be an example thread thread in the state of the state of the state of the state of the state responsible bahavior in space. In light of recent developments such as the deliberation cannow and unnecessary, creation of space delity threads the institutional development Cannow. EVAID by a direct-accent and an advance the institutional development and unnecessary. Creations that has a new state of committee Cannow. EVAID by a direct-accent and an advance and the discussions of the state of the state of the state of the advancement.

The Netherlands continues to endeavour to prevent an arms race in outer space

by addressing the vulnerability of starse through a tree-by-tase approach which could also further legging holding measures. At the same time, the international community must not lose sight of the continuing developments and their impact to them for all stabelines in the public and private starses. The international community has also private starses and the starses of the transfer to the table on a vulneting background back

Norway

[6 May 2022]

Pursuant to resolution 76/230 the Secretary-General has sought the views and

proposals of Member States on the provision of guarantees for the prevention of an arms race in outer space and preserving outer space for peaceful purposes.

Norway is a highly connected society dependent on digital services, where space-based systema are essential for communications, positioning, navigation and timing, as well as situational awareness. Activities outside the Norwegian mainland present challenge where space systems enable efficient and arise operations, support operational security and bolter the exercise of jurisdiction in large areas, e.g., search and rescue operations in the Arctic.

Most states are dependent on space-based services for similar purposes.

Therefore, It remains important to maintain outer space as a paceful, safe, stable, secure and sustainable environment for the benefit of all. All states must remain committed to the paceful exploration and use of outer space and to refrain from conducting activities contrary to their obligations under international law, including those that could threaten the ability of all States to freely use and explore outer space, now and in the future.

The deliberations of the first committee of the General Assembly on preventing an arms race in ourse space (PAROS) forms one important contribution to this end. It bears noting that the discussions have evolved over time: when the General Assembly adopted the first PAROS resolution (Safery) there was splinficant emphasis on the prevention of anti-statelite weapons. In later years, resolutions introduced by the Resistan Foderation have emphasized on first placement of weapons in outer space.

As several other States, Norway understands the concept of PAROS in a broad sense: discussions on PAROS include deliberation on matters of international security

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related to space as well as on how to improve space security. This view is in line with the expanding scope of the PAROS agenda in the General Assembly.

Unfortunately, the discussions in PAROS appear to have become entrenched by differing opinions on the form of the desired outcome. Norway believes that the initiative taken in resolution 75/26 on reducing space threats through norms, rules and principles of repossible behaviour offers a promising way forward for PAROS: it offers an approach that addresses space security in a comprehensive and holistic maner without projudice to the form of the outcome.

In light of the above, Norway considers the "no first placement" approach

Therefore, within the scope of the PAROS agenda of the General Assembly, the issue of guarantees for the prevention of an arms race in outer space and preserving outer space for paperuli pupposes must take place within a comprehensive and holitica approach. As such matters: regarding PAROS are currently best addressed within the framework of resolutions: 75/16 and 76/231 on reducing space threats through norms, rules and principies of responsible behaviour.

Republic of Korea

[6 May 2022]

Introduction

With more actors, access, and dependency, space is becoming increasingly congested, contexted, and competitive every day. Furthermore, as most space systems have dualuse characteristic, it is hard to distinguish the purpose of each space system and the intention behind certain actions. This increases the risk for both miscommunication and miscalculation.

Therefore, all nations, irrespective of their technological status vis-à-vis space,

share a clear and urgent need to reduce such threats to ensure a safe, secure, and sustainable space environment as the world is increasingly reliant on space systems and services.

Guarantees for the prevention of an arms race in outer space

Space threats include, but are not limited to, an arms race in space. Indeed, the significant increase of actors, dual-use characteristics of space systems, and risks associated with miscalculation and miscommunication call for a holistic and comprehensive approach to define threats and search for methods to enhance space security, failure to properly define the challenges that we face would inevitably lead to a blave in resonance.

In this regard, and while the Republic of Korea remains strongly committed to

preventing outer space from becoming an area of conflict, focusing merely on guarantees to prevent an arms race in outer space oversimplifies and underestimates space security issues. Without a common understanding on what constitutes space



threats and responsible behaviours to a void or prevent such threats, it would be inadequate, and even dangerous, to depend on guarantees especially void of verification mechanisms. Instead, an effective approach in the space security domain would entail, inter alia, appropriate transparency and confidence building measures, norms of behaviours, and political commitments.

In particular, the Republic of Korea also considers that the draft treaty on the prevention of the placement of weapons in outer space and of the threat or use of force against outer space objects does not cover all of the relevant threats. To ensure an effective response, we believe that there is a need for a more comprehensive development of the scope and definition, along with concrete verification mechanisms.

Toward a Holistic and Comprehensive Approach

With a view to the ultimate establishment of an international legal regime that provides for comprehensive measures in response to sease themas, the Respublic of centring on a behaviour-based approach is pragmatic, realistic, and appropriate in addressing threats in outer space. Accordingly, the Respublic of Korea c-sponsored thread Michael Assembly resolutions on reducing pose threats through forces, rules activity participate in the space index of the program and activity participate in the space index of the program meetings.

The Republic of Korea would like to emphasize the importance of the openended working group process, which aims to identify space threast and make recommendations on possible norms, rules, and principles of responsible behaviours. based on a common understanding among the United Nations Member States. We encourage all Member States to constructively engage in this process and contribute to enhancing tages executiv and preventing an amra race in outer space.

The Republic of Korea takes this opportunity to express its firm commitment to play its due role along with partner countries to this end, and will continue to be actively engagied in relevant fora.

Russian Federation

[Original: Russian] [5 May 2022]

The Russian Federation welcomes the adoption of General Assembly resolution

76/230 of 24 December 2021 and, in accordance with paragraphs 7 and 8 thereof, has the honour to submit its national contribution to the report of the Secretary-General to the seventy-seventh session of the General Assembly for further discussion by Member States.

Preventing an arms race in outer space, keeping outer space free of weapons of any kind and preventing it from becoming an arean 65 armed confrontation require the combined efforts of all States Members of the United Nations. Only collectively can the global community ensure the peaceful explosition of space on an equal and non-discriminatory basis for all countries without exception and resolve many global problems, including those related to economic development.

In recent times, real risks have emerged of outer space becoming a launching

pad for aggression and war. A number of United Nations Member States are pursuing a policy that involves placing weapons in space, increasing force capabilities against space objects and using outer space for military purposes. Ambitious programmes are

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being implemented to develop weapon systems designed for the threat or use of force in, from or against outer space.

These countries are seeking to use outer space for military operations (both "defensive" and "offensive" operations, including preventive activities) in pursuit of their military supremary. This is detimental to international pace and security and could result in severe instability and an arms race in outer space that completely undermines the prospects for arms limitation and reduction in general.

The Russian Federation insists that it is unacceptable to revise the decisions of the first special assombly devoted to diarrament, held in 1978 with the aim of encouraging the exploration and use of outer space for strictly peaceful purposes, preventing an array ratic in outer space Transp. If it is not prevented in particular to the strange strategies and subscriptions in accordance with the 1967 Duet Space Transp. If it is not prevented in an array of the strategies and subscriptions in accordance with the 1967 Duet Space Transp. If it is not prevented in an array in the strategies and the st

international cooperation in the peaceful exploration of outer space and to the use of the results of scientific and technological progress in that area for peaceful purposes.

In this regard, the Buscas Federation vectores the understanding, enclution decreard Alconsol (and A

It is generally recognized that while the existing international reaties related to outer space and the legal regime provided for therein play a positive role in regulating outer space activities, they are unable to fully prevent an arms race in outer space, the placement of weapons in outer space and the threat or use of force in, from or against outer space, or preserve outer space for paceful purposes.

Thus, in order to guarantee the prevention of an arms race in outer space and to fulfil the objectives of the first special session of the General Assembly devoted to disamament in 1978, the Russian Federation proposes to introduce a complete and comprehensive legally binding prohibition on the placement of weapons of any kind in outer space, and on thread or use of force against and with the use of space objects.

Accordingly, Member States should make the following commitments:

- Not to use space objects as weapons against any targets on Earth, in the air or in outer space
- Not to destroy, damage, disrupt or alter the trajectory of the space objects of other States
- · Not to construct, test or deploy space weapons, regardless of where they are

based, for any purpose, including for missile defence or as anti-satellite capabilities, for use against targets on Earth or in the air, and to eliminate any such systems already in the possession of States

 Not to test or use inhabited spacecraft for military purposes, including anti-satellite purposes

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 Not to assist other States, groups of States or international, intergovernmental or non-governmental organizations, including non-governmental entities established, incorporated or located in territory under their jurisdiction and/or control, in engaging in the above-mentioned activities and not to encourage them to do so.

In order to reliably guarantee the fulfilment of these commitments, they must be agreed upon in the form of a relevant international legally binding instrument. The negotiations to develop one are urgently needed.

To that end, the Nucsian Federation and the People's Republic of China wominstic, for the consideration of the Conference on Disarmament, a draft treaty on prevention of the placement of weapons in outer space and of the Interast or use of nor a gainst outer space objects in 2016 and its updated womio, reflecting the document, which is currently under discussion by the Conference, should form the basis for the abouttoon of the legally building multilateral instrument.

The preparation of such a document would be facilitated by taking into account the work of the Group of Governmental Experts on further practical measures for the prevention of an arms race in outer space, which was active in 2018–2019.3

In addition, the document could reaffirm the existing international legal norms and principles geometry cases a classifies, in particular, the Charter of the Uniter Nations, the Outer Space Treaty of 1967, the Treaty Banning Nuclear Weapon Tests in the Atmosphere. J Diver Space and United Water of 1963, the Declaration of Legal Principles Governing the Activities of States in the Exploration and Use of Outer Space O 1963, the Covereion on International Liability for Damage Gaused Div Space Objects of 1972 and the Covereion on the Prohibition of Millary of Any Other Hostic Use of Environment Modification Techniques cold Prof.

The initiative and political commitment of no first placement of weapons in

outer space, which was put forward by the Russian Federation and has already gained international support, is intended to bring stability while the multilateral instrument is being elaborated. Thirty States have already committed themselves to not be the first to place weapons in outer space.4

This policial commitment, which is gaining more and more supporters, is the most effective, particular and efficient way to make the development of space strike systems unvikible. As one of the transparency and confidence-building measures for the prevention of a mars race in outer space, the initiative on on first placement of weapons in outer space has, in recent years, become a major policial factor in strengthmeing immensional paces, ensuring equal and individual security for all increasing the predictability and sustainability of the activities of States related to the exploration and use of outer space for paceful purpose.

Analytic and the second of the second of the second s

Ecuador, Guatemala, Indonesia, Kazakhstan, Kyrgyzstan, Myarmar, Nicaragua, Pakistan, the Republic of the Congo, the Russian Federation, Saychellen, Sierra Leone, Sri Lanka, Suriname, Syria, Tajihistan, Togo, Turkmenistan, Uruguay, Uzbekistan, Venezuela (Bolivarian Republic of) and Vistnam.

A/77/80

United Kingdom of Great Britain and Northern Ireland5

[6 May 2022]

 The United Kingdom is pleased to submit the present paper in response to paragraph 7 of General Assembly resolution 76/230, which requested the Secretary-General to seek the views and poposals of Member States on the provision of guarantees for the prevention of an arms race in outer space and preserving outer space for peaceful purposes.

Pance systems underpin a wide range of scientific and commercial activity and have become a lowed and part of the global infrastructure upon which modern the part of the state state. Communications: command and control, invariagation; In considering measures related to the prevention of an arms tace in noter space. If the between the space domain and other persention of an arms tace in noter space. If a between the space domain and other persentional domains (and, state, at rand cyber).

The space systems that we rely on include ground-based infrastructure, user equipment and distalles as well as attillies. The threats to these 4 significant encompass a wide range of on-Earth and in-orbit capabilities possessed by States that ould destruy, inflict damage or interfere with space systems. Given the voltal role played by space systems for global prosperity, development and security, it is critical or States to find was to notice the find of moderabilities not security as that in the States to find was to notice the find of moderabilities and security and on the state to find was to notice the find of moderabilities and security as the state to the states to find was to notice the find of moderabilities and security as the state to the states to find the states to reduce the the state of the state to find the state to find the states to the state the state to state to the state to the state to

can all continue to benefit from space

As the current international climate, characterised by increased ratate competition and lack of trust, combined with the complex array of themas to space systems, the UK considers the notion of "guarantees" in the context of pace executing to be unverkable, and potentially counter-productive. We are accounted that it implies a narrow approach focusing only on legally binding Treaties that do not address the modern challence of space security.

BARC6 as we know it derives from the final outcome document of the 1978 first special session of the hundet Nations General Assembly diverted to distanzament, 6 which established the prevention of an arms race in outer space (PAROS) on the ageded of the overall distanzement matchinery. This did not precisible any particular outcome. The object to prevent an arms race in outer space, further measures should only out the prevention of the outer space. Jurther measures should be the Outer Space Treaty.

Serifictively address the PAROS agends the United Kingdom considers it essential to consider a wide range of measure beyooth the call on to place weapons in outer space. The United Kingdom favours a more holistic approach based on defining responsible space behaviours that can holp improve multial understration and build runt amongst States regarding their space activities, utilizately reducing the risk of contril artisting from imperception and miscalcalization. The views of the United Kingdom are set our in detail in our submission of 10 April 2222 to the threats through homes, holes and incical calculate of responsible bahavior."

 The United Kingdom acknowledges that there are different views of PAROS – some states have focused their concern on the placement of weapons systems in space. However, in our view it is not possible to address the full range of concerns under the

⁶ Full version is available at https://front.un-arm.org/wp-content/uploads/2021/05/nationalsubmission-of-the-United-Kingdom-in-connection-with-resolution-75_36.pdf.

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PAROS agenda without taking into account all the segments of a space system. To prevent an arms race, it is just as important to consider the data that the user gets alongside the satellites that provide it.

8be United Kingdom considers PAROS to include all threats against space

systems. We need to consider the role of new, novel technologies as well as existing ones like missiles, and to include kinetic and non-kinetic threats. We should consider the large range of effects a counter-space capability can have on space systems and on national security rather than considering a ban of certain weapons in isolation.

9a, we can say that a modern-day space arms care is characterised by company, includes ground and space-based components, and encompassis range of effects. Threat drive the development of defensive systems and overnathicing offensive, counter-space capabilities, Corresponding), the risk of ministrepretation and micalculation intensities. An example could be bodyguad ataellies where the use of a purely defensive systems could append to defensive the bodyguard conducts a defence manoeuvre that destroys, damages or disables another satellies.

16addressing concerns under PAROS, it is also important to take into account

threat perceptions; competition between states; misperception of actions and effects; misunderstanding of systems and deployments; absence of functioning arms control regimes; absence of agreed rules, norms and principles including their interpretation and application; incomplete agreements; lack of trust; no verification; and technological developments.

11. How can we address the full range of concerns related to PAROS? The solution

to enhanced space security and reducing space threats should include a wide range of mechanisms alongside the actions, omissions and activities of States. A combination of the following measures should be considered as we work towards reducing space threats:

Improved understanding of motivations and doctrine	а.
understanding of strategic stability	b.
dialogue	с.
norms, rules and principles including transparency and confidence- building measures risk reduction and crisis management measures/structures	d.
Verification	
Trust	
Channel condensate adjust of effects and improves	

- ; Politically-binding statements
- j. Existing foundational international law, including the United Nations Charter, legally-binding instruments and customary international law
- , Sanctions

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Export controls

⁷ Securing Our Military Satellites Against Shadowing Spacecraft - NPEC (npolicy.org).

Edum the 2013 report by the Group of Governmental Experts on Transparency and Confidence-building Measures in Outer Space Activities (para. 34), we can say that a proposed measure should:

- Be clear, practical and proven, meaning that both the application and the efficacy of the proposed measure have been demonstrated by one or more actors;
- Be able to be effectively confirmed by other parties in its application, either independently or collectively;
- Reduce or even eliminate the causes of mistrust, misunderstanding and miscalculation with regard to the activities and intentions of States.

18e multi-faceted solution to preventing an arms race in outer space needs to

include all elements that would limit the drivers of an arms race; be comprehensive across the whole of space system; and address all of the technologies that can deliver effects to deny use of the space system.

14. The United Kingdom therefore encourages all Member States to engage in the open-ended working group established by resolution 76/231 to help shape its recommendations on possible norms, rules and principles of responsible behaviours relating to threast by States to space systems.

United States of America

[6 May 2022]

Space activities are essential for the advancement of all humanity and to the properity of all States. These activities advance our understanding of the Earth, the universe, and humanity: create good jobs and economic opportunity; inspire us; and drow innovation and the world. Hormation collected the mospace capabilities also contributes to international papers and security including by providing data critical to evolve the matter. Such as the build world million and the state of the security evolves the matter. Such as the build world million for each or the security and and the security and the security including by providing the security and the security

Because of this, access to and use of space is a vital interest of all States.

However, intensifying strategic competition presents a challenge to intensitianal paces and security. This competition is increasing the potential for conflict, including conflict which extends into outer space. Conformation or conflict in outer space is on invaliable. However, the United Status exekt to ensure that outer approach to address issues that could lead to conflict in outer space, including all issues related to the prevention of a name race in outer space.

A compensational approach to the prevention of a conflict in outer gates, including issues, relation to the prevention of a conflict in outer gates, includes, including relations indicates the prevention of the same scale on tasks of the including relation tasks of the same scale on the same scale on tasks of the including relation tasks of the same scale on the same scale on tasks of the including relation tasks of the same scale on the same scale on the including relation tasks of the same scale on the same scale on the voluntary commitments related to forem of responsible baselour and other works and the prevention (scale on the same scale on the same scale on the agreement that are equitable scale fractionally writilizing, and examing other means.)



Relevant international agreements

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The United States recognizes that legally-binding measures play an important tool in addressing issues related to the prevention of an arm scrabe in outer space, and has long been a leader in advancing arms control measures related to outer space. Respect proteiner, it is clear that international as applies to activities in outer space. Respect obligations, are core components of a comprehensive approach to proventing conflict in outer space.

Some examples of international agreements that are relevant for outer space activities include:

- The Charter of United Nations
- The Treaty Banning Nuclear Weapon Tests in the Atmosphere, in Outer Space, and Under Water (Limited Test Ban Treaty)

 The Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space, including the Moon and Other Celestial Bodies (Outer Space Treaty)

- The Agreement on the Rescue of Astronauts, the Return of Astronauts and the Return of Objects Launched into Outer Space (Rescue Agreement)
- The Convention on International Liability for Damage Caused by Space Objects
 (Liability Convention)
- The Convention on Registration of Objects Launched into Outer Space (Registration Convention)
- The Convention on the Prohibition of Military or Any Other Hostile Use of Environmental Modification Techniques (EnMod)
- . The New Strategic Arms Reduction Treaty (New START/Start III)

Some examples of international agreements that are relevant to outer space activities, which are no longer in force or have not yet entered into force, include:

- The Strategic Arms Reduction Treaty (START I) (not in force)
- The Comprehensive Nuclear Test Ban Treaty (CTBT) (not in force)

Existing and future threats

The development of countergace capabilities will also a perceptione, which the development of countergace capabilities will also approximate the second sec



Norms of responsible behaviour/transparency and confidence-building measures (TCBMs)

Existing international law provides a strong framework for the governance of outer papea activities. As space activities evolve, however, it is important that the norms, rules, and principles that guide such activities also evolve. In this regard, the United States believes that the development and implementation of norms, rules and ended working group on this issue, could help to address threats by States to space systems by reducing miscalculation, imperceptions, and mistrust.

In reviewing measures to prevent conflict in outer space, including issues related

to the prevention of an arms race in outer space, Member States should consider the 2013 consensus report of the Group of Governmental Experts on Transparency and Confidence-building Messures in Outer Space Activities, which includes recommendations for transparency and confidence-building messures (2013 Group of Governmental Experts on Transparency and Confidence-building Messures in Outer Space Activities,

Memore, that 2013 Group of Genemental Experts on Transparrey and Decoders behaviory for the second second

Member States should also recall the criteria for an effective transparency and confidence-building measure contained in the 2013 Group of Governmental Experts on Transparency and Confidence-building Measures in Outer Space Activities report. These criteria include:

- (a) Be clear, practical, and proven;
- (b) Be able to be effectively confirmed by other parties; and
- (c) Reduce or even eliminate the causes of mistrust, misunderstanding and miscalculation.

In addition, Member States should consider the Secretary-General's report

contained in A/76/77, which provides a consolidated summary of elements from the submissions received from Member States pursuant to General Assembly resolution 55/36, whoto projecte to their individual positions. It presente existing and potential threats and security risk to space systems, including these arising from actions, activities or systems in outer space or terrestriality, a characterization of constrained regregolitability, instrandoldscore threatisting, and other potential impact on norms, rules, and principles of responsible behaviours and on the reduction of the risks of misunderstraining and missicalizations with respect to active space.

Participation in the open-ended working group on reducing space threats through norms, rules and principles of responsible behaviours pursuant to resolution 76/231 could advance comprehensive measures that could prevent conflict in outer space, including issues related to the prevention of an arms race in outer space.

In furtherance of these efforts, the United States announced on 18 April 2022,

our commitment not to conduct destructive direct-ascent anti-satellite missile tests. Creating debris in space through this type of destructive ASAT missile tests is in noone's interest.

Future arms control measures

With respect to any prospective arms control agreements, the United Status recalls the provisions of General Assembly resolution 30/97C which requested that the Committee on Disamanent consides the question of negotiating "effective and verifiable agreements and a proversing a mars rate in lower space." In this regult the United States are equitable, effectively verifiable, and enhance the national security of the United States and its alles.

The United States will factor into these considerations compliance by other

countries with their existing legally-binding treaty obligations. In addition, the United States also emphasizes the importance that any potential future legally binding arms control agreement related to outer space have clear objectives and avoid restrictions on the peaceful exploration and use of outer space.

Other measures

When considering measures that could be taken in order to prevent a conflict from extending into outer space, including issues related to an arms race in outer space, Nember States could also consider steps using their domestic authorities related to sanctions and export controls. Implementing a comprehensive approach

 Instead of following a narrow, lawad approach, the intertational community should load all of the food sublable. Following a more comprehension of relevant estimation of the importance of the implementation of relevant estimation of the importance of the implementation of relevant estimation (three specific, tables) and paratical masses to address these threats. In the United States' view, the most practical and effective measure and inters to tode/or appoint in transparence of confidence building measures, and nonme, travel and practical masses to address the using and nonme, travel and practical masses to address the using and development of leaght, building agreement in the future.

B. European Union

[2 May 2022]

Ensuring space security and preventing an arms race in outer space are essential

conditions for the further exploration and use of outer space in a safe, sustainable and secure manner and for strengthening international security and stability in the common interest of humankind.

The European Union and its member States regard outer space as a global

commons, to be used for the benefit of all. The 1967 Outer Space Treaty and other applicable international law, including the Charter of the United Nations, as well as the guiding principles developed in the United Nations framework, constitute the conversion of the global governance of outer space. The European Union and its member States stress the importance of conducting space activities in accordance theremuth.

In this regard, the European Union and its member States consider that the Conference on Disamament remains the world's sing metullateral disamament negotiating body and its continued relevance is of utmost importance for the European Union. The Conference on Disamament should fulfit is crucial function to negotiate multilateral disamament instruments and it could also elaborate other voluntary norms.

The notion of "limiting the arms race" in outer space appeared in a particular

context of the Cold War in which the improvement of collicitors exactly focused at the first meaking on neutral section and substantial of the first of the firs

Nowaday, the space environment is becoming increasingly congested, contested and competitive. Outer space is an area where we have ease a considerable amount of challenges to our common security in recent years and this merits our full attention. The distruction of page exbjects and systems or interruptions of their services significantly impacts and disrupts connected societies which are increasingly deemedent on these services. Furthermore, the inherent dual-use nature of many space objects and systems poses challenges when it comes to identifying threats, distinguishing between innocuous behaviours and potentially threatening ones.

Thus, improving gauce accounty tools you executed, as all States, independent of the wind of the development of space accounts, we increasingly relation on space systems and environs. Schedings and their space was the form the space increasing the states of the space share and the space schedings and the space share and the space schedings and the space share and the space schedings and the space share and account of the space schedings and the space share and accounts of the space schedings and the space schedule and the space schedings and the space schedule and the space schedule and the space schedule and the space schedule accounts and the space schedule and the space increasing built in space schedule and the schedule and the space schedule accounts and the space schedule account schedule accounts schedule accounts and the space schedule account schedule accounts schedule account sched

Preventing an arms race in outer space and preventing outer space from becoming an area of conflict is crucial to safeguard the long-term use of the space environment for paceful purposes. The European Union and its member States remain strongly committed to this final objective. Previous and current initiatives and works

The European Union and its member States appreciate that experts in the Group of Governmental Experts on the Prevention of an Ams face in Outer Space in 2018 tooks a comprehensive approach in an effort to build bridges between various positions. Even though the Group of Governmental Experts could not unfortunately reach consensus on a final report, their efforts should contribute to current and future discussions to enhance security in outer space.

Some of the current legally binding instruments proposals for the "prevention of an arms race in outer space" do not provide for any guarantee and will not help enhance space security.

Thus, the European Union and its member States relevant that the current draft trady on the prevention of the placement of weapon; in outry appace, the thread or use of force against outer space objects does not constitute a sufficient basis for an effective, competitional and verification instrument. In addition, the propositions of developing further capabilities, which are not explicitly included in the scope of the draft treaty to tare a real threat, such as anti-ratellite ground-based capabilities.

We also below that the "to first placement of weapon: in order gaza," initiative sees near entre the contract of the pransparancy and confidence shalling measures, as described the contract of the pransparancy and confidence shalling and the description of the state description of the state of the state of the state of the state of the weapon in parane will affect all direct placed in place or personality can be and the state space. The state of the weapon in parane will affect all direct placed in place or presenting capability the state of the state state. The state of the state of the state of the state of the state state. The state of the state of the state of the state of the state state. The state of the state of the state of the state of the state state. The state of the state of

The European Union and its member States recognize that, while the existing

international framework related to outer space and the legal regime provided for therein play a positive role in regulating outer space activities, the above proposals of legally binding instruments are unable to guarantee the prevention of an arms race in

outer space, or to contribute to the enhancement of space security, and to preserve outer space for peaceful purposes for present and future generations.

This is why, without excluding the possibility of a legally binding instrument in international and inclusive approach in the United Nations framework based on norms, rules and proceeds on exponent behaviours is level. We thus need strong more strong that the strong stron

Concretely enhance space security through norms, rules and principles of responsible behaviours

First of all, building a common understanding of responsible and irresponsible behaviours is the right approach to increase predictability and to reduce and avoid transions in outer space. We therefore believe that establishing norms, rules and principles of responsible behaviours in, to, from and through outer space is indispensable.

Furthermore, the European Union and its member States believe that fostering

mutual trust and strengthening transparency between States is key to enhance space security and to avoid a conflict in ours prace. In this regrat, the European Union and its member States consider that publishing and sharing information about space dortners, policies and strategies is responsible behaviour and would help creating confidence between different actors. This will help reducing the risks of misperception, misculculation, and unwanted conflict exclation.

Similarly, the European Union and its member States emphasize the importance of The Hagies Code of Conduct as the only multilateral transprency and confidencebuilding instrument against the profileration of ballistic missiles that has an obvious excitate to outer against the profileration of ballistic missiles that has an obvious for the state of the all States, in particular those with significant activities in the area of ballistic missiles and space laundwhices, to adhere to the Code as soon appossible.

Finally, the European Union and its member States highlight the need for the international community to come together and discuss further way and means on how to concretely improve space security in the interest of all States, in a constructive and collaborative way, making use of pasts and denging international discussions. The European Union and its member States emphasize that the only way to prevent an and memory and the states and pasters or each pack of pack of the pack of the and interconcretely employed in the membrane and order, to bring all monotal sites about on and stress of the states.

Voluntary commitments, non-legally binding guidelines and principles and legally binding instruments should not be seen as mutually exclusive, as they reinforce each other and both are needed for the prevention of an arms race in outer space, the presentation of a safe, secure and sustainable space environment and the present and future generations.

The European Union and its member States remain firmly convinced that the most important step forward is to continue the discussions on responsible behaviours. This approach can allow all States to enhance communication and dialogue, to

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strengthen transparency and confidence with a view to converging differences and reaching consensus, and creating favourable conditions for possible future negotiations on the prevention of an arms race in outer space.

In this regart, the European bilon and its member States continue to support the process launched with General Assembly resolution 73/124 and welcome the adoption of resolution 74/211, which is a timely step to contribute to the reduction of threast and risks related to outer space. The satisfiltement of this open-needed working group, which the European Union and its member States Huly support, paves the way for a detailed and inclusive discussion on reducing threats through responsible behaviours with a view to concretely improving space security and to contribute to the prevention of an arm screen in outer space.

As firm believers in multilateralism with the United Nations at its core, the

European Union and its member States strongly believe that new it is urgent and in the interest of all states to programically and immediately inprove space security and to act which in order to agree on a global, common and multilateral solution through greater coordination and cooperators, with the involvement of all United Nations engagement of commercial actors and civil society representatives, in accordance with established practice.

The European Union and its member States therefore continue to be fully

committed to engage actively and constructively in discussions under the item of the prevention of an arms race in outer space.

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