



INTERNATIONAL JOURNAL
ON SPACE LAW AND POLICY

VOLUME 3 AND ISSUE 1 OF 2025

INSTITUTE OF LEGAL EDUCATION



INTERNATIONAL JOURNAL ON SPACE LAW AND POLICY

APIS – 3920 – 0014 & ISSN – 2584-1955

(Open Access Publication)

Journal's Home Page – <https://ijslp.iledu.in/>

Journal's Editorial Page – <https://ijslp.iledu.in/editorial-board/>

Volume 3 and Issue 1 (Access Full Issue on – <https://ijslp.iledu.in/category/volume-3-and-issue-1-of-2025/>)

Publisher

Prasanna S,

Chairman of Institute of Legal Education (Established by I.L.E. Educational Trust)

No. 08, Arul Nagar, Seera Thoppu,

Maudhanda Kurichi, Srirangam,

Tiruchirappalli – 620102

Phone : +91 94896 71437 – info@iledu.in / Chairman@iledu.in



© Institute of Legal Education

Copyright Disclaimer: All rights are reserve with Institute of Legal Education. No part of the material published on this website (Articles or Research Papers including those published in this journal) may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the publisher. For more details refer <https://ijslp.iledu.in/terms-and-condition/>

ARTEMIS TREATIES ON SPACE LAW. WHAT'S NEXT FOR INTERPLANETARY SPACE?

AUTHOR – Y. O. KOROLOV, CANDIDATE OF LAW SCIENCE, SPACE INTERNATIONAL COMPANY, INDIVIDUAL BUSINESS Y. O. KOROLOV, EMAIL: SOAHCIT@GMAIL.COM. ORCID ID 0009-0000-2037-3419

BEST CITATION – Y. O. KOROLOV, ARTEMIS TREATIES ON SPACE LAW. WHAT'S NEXT FOR INTERPLANETARY SPACE?, *INTERNATIONAL JOURNAL OF SPACE LAW AND POLICY (IJSLP)*, 3 (1) OF 2025, PG. 33-45, APIS – 3920 – 0014 & ISSN – 2584-1955

ABSTRACT

Given the growth of space activities by developing countries and the increasing participation of the private sector in space activities, negotiations on a possible international instrument that is legally binding and clearly defines commercial activities related to space can play an important role in developing the use of space and stimulating space activities for the benefit of humanity. Thus, the current space challenges, which may create a new international interplanetary space order, should open up more opportunities for developing countries, especially in terms of space cooperation, use and exploitation of space and its resources. This new interplanetary order would put an end to the “first come, first served” principle and would implement Article 1 of the outer space treaty, which states that space is the prerogative of all mankind.

Keywords: Space sovereignty, Major groups, Satellite law, Security, National sovereignty, Space law, Colonization.

Main material.

Therefore, a broad discussion on the implications of space activities is still necessary to enable developing countries to benefit from space exploration while ensuring and enforcing their rights in the discussions. Should be as comprehensive as possible, taking into account the needs of developing countries. Any approach to developing a framework governing the exploration, exploitation and use of space resources should be equitable, constructive, collaborative and consensus-based. Identifying areas in which the international framework can support safe, sustainable, rational and peaceful activities, including for the scientific community, academia, private companies, governments and other stakeholders.

Effective cooperation between states, organizations and scientific institutions for the equal participation of all states in the safe and

peaceful exploitation of natural resources located in outer space. Access to natural resources located in outer space for purely economic purposes. Training of personnel to improve the skills of specialists in legal and scientific and technical issues of space resources.

Use of space technologies to reduce the risk of natural disasters and mitigate climate change. Creation of a mechanism for regulating and controlling national, regional and global infrastructures. Should contribute to the creation of a safe and sustainable environment for the use of new technologies and the use of space resources for peaceful purposes.

Contribute to expanding the opportunities for the participation of all countries on equal terms in space activities. Strengthen the climate of international cooperation and equality between all states. Promote the effective implementation

of the 5 United Nations treaties and principles relating to the exclusively peaceful uses of outer space. Positively contribute to the pursuit of a legally binding instrument on outer space. Raise awareness that no celestial body or part thereof may be the subject of national appropriation by virtue of ownership, use or occupation or by any other means.

Pay greater attention to the risks associated with the lack of effective cooperation among all governmental and non-governmental actors involved in the peaceful exploitation of space resources. Progress in promoting safe mechanisms for the oversight and control of the use of space resources. Stress the need to socialize scientific and technical information in the field of outer space in a safe, equitable and non-discriminatory manner. Reaffirm the need to use space technologies to reduce the risk of natural disasters.

1. In our opinion, the definition of space resources covers not only mineral space resources of celestial bodies;
2. Analysis of existing norms of international law on the study, exploration and use of space resources, existing gaps in the legal regulation of this activity;
3. Proposals for the development of an international legal mechanism for the implementation and control of activities on the study and use of space resources based on the principle that space resources are part of outer space;

The need to develop legally binding international agreements in this area, which cannot be replaced by any rules or recommendations that grant exclusive rights to an individual state or group of states to the detriment of the interests of other subjects of outer space. In order to achieve a common understanding of the applicable international legal framework, it is important to seek information and allow the exchange of knowledge and experience with a wider range of stakeholders involved in this multidimensional and interdisciplinary topic.

This requires a multidisciplinary approach that brings together space and non-space, science and industry, public and private actors.

It is also necessary to define terms and differences in exploration, exploitation and use of space activities. Maintaining the security, stability (preservation of the space environment) and peaceful use of outer space in relation to the use of space resources. Participation and interests of new space powers. Analysis of potential risks and mitigation of harmful impacts.

1. Recent technical developments in space resource research and utilization;
2. Ways and means of monitoring the environment of relevant celestial bodies to assess the impact of space resource activities;
3. Technical and financial mechanisms to be developed for the benefit of all nations with respect to space resources;
4. Scientific and technical feedback for the development of regulations necessary to preserve the environment of the Moon and other celestial bodies, including limitations on the amount of extraction under the name of «scientific research» and the establishment of limits on environmental changes resulting from such activities;
5. Recommendations on possible models of government for regulating space resource activities;
6. Ways and means of national and international authorization and supervision of space resource activities;
7. Development of mechanisms for coordinating space resources to avoid harmful interference;
8. Harmonization of the legal frameworks of nations related to space resource activities;

The Artemis Accords represent a new framework within the evolving landscape of space relations, fostering global collaboration on sustainable human space exploration projects. They establish a foundation for knowledge-sharing and utilization, including key principles for the responsible use of natural

resources and conflict resolution in space activities. The Artemis program, which aims to return humans to the Moon and lay the groundwork for future missions to Mars and beyond, marks a major milestone for humanity. International cooperation enables the exchange of expertise and resources, reducing the costs of space exploration while enhancing security for all involved parties.

Despite their significance, the Accords have faced criticism for potentially undermining aspects of international law. However, by replacing outdated proactive management approaches with a more adaptive system, this legal framework introduces notable innovations in international space governance. This modern approach allows for flexible and dynamic regulation of space activities, ensuring adaptability to technological advancements and shifting geopolitical conditions.

Furthermore, the Accords legitimize the utilization of space resources, addressing a long-standing point of contention in international space law. By outlining guiding principles for the responsible and sustainable use of natural resources in space, they provide a valuable framework for participating nations. At the same time, these agreements offer clarity and legal certainty for private companies engaged in space exploration, allowing them to operate within a structured regulatory framework.

By joining the Accords, signatories gain access to a global network of space exploration partners and the opportunity to contribute to its development. They commit to adhering to the principles outlined in the document, guiding their participation in the Artemis program. Additionally, they can benefit from the technological advancements and expertise of other signatories, which is crucial for achieving their own space exploration objectives.

As a U.S.-led initiative, the Artemis Accords pave the way for a sustainable and peaceful future in space exploration. By fostering international cooperation, this framework promotes scientific

breakthroughs and technological progress. Through collaboration and resource-sharing, humanity can advance its space exploration goals while ensuring that the benefits of space knowledge are distributed equitably among all nations. Ultimately, the Accords represent a crucial step forward in our collective efforts to explore, understand, and responsibly utilize outer space.

The Artemis Accords: A New Era in Space Exploration.

The Artemis Accords mark a significant milestone in the peaceful exploration of outer space. Developed by the United States and its allies, this framework offers an alternative to traditional approaches to the sustainable and responsible use of celestial bodies.

Let's explore the Artemis Accords and the role of their participants. First, we will examine the innovative aspects of the agreements and how they differ from previous space law frameworks. Next, we will analyze the Accords as a new mechanism for multilateral cooperation in space and their potential impact on future space missions. Finally, we will discuss why nations have chosen to join the Accords and the benefits each participant gains.

Whether you're interested in the latest developments in international space law or just curious about this topic, this article will provide an in-depth look at the Artemis Accords and their influence on the future of space exploration.

What Are the Artemis Accords?

The Artemis Accords serve as the legal foundation for the U.S.-led Artemis space program. This ambitious initiative aims to usher in a new era of space exploration, with objectives such as landing the first woman and the next man on the Moon, followed by human missions to Mars. To support these goals, the Accords establish a framework for international cooperation.

These agreements set forth common principles, guidelines, and best practices for the safe

exploration of the Moon and beyond as humanity expands its presence in space. While NASA leads the Artemis program, international partnerships with governments and private companies play a crucial role in its success.

The primary objective of the Accords is to ensure the responsible execution of Artemis missions by creating a shared set of rules for participants. This international agreement, coordinated by NASA and the U.S. Department of State, is signed voluntarily at the national level.

One of the core principles of the Accords is to reaffirm the importance of adhering to the 1967 Outer Space Treaty, which governs space exploration, including activities on the Moon and other celestial bodies. Additionally, the Accords emphasize compliance with:

- The 1968 Rescue and Return Agreement, which mandates the safe return of astronauts and space equipment.
- The 1972 Liability Convention, which regulates damage caused by space objects.
- The 1975 Registration Convention, which requires states to register space objects.

The agreements cover activities on celestial bodies such as the Moon, asteroids, and comets, as well as objects moving between these locations, including stable orbital points known as Lagrange points.

Lagrange points are regions in space where the gravitational forces of two large bodies (such as Earth and the Moon) balance out with the centrifugal force of a smaller body, allowing it to remain in a stable position.

The Artemis Accords were initially signed by eight countries in October 2020. The first in-person meeting of representatives from the participating nations took place at the International Astronautical Congress in Paris on September 19, 2022.

International Reactions to the Artemis Accords

The adoption of the Accords has sparked mixed reactions, particularly from Russia and China.

- Russia has strongly criticized the initiative, arguing that it primarily serves U.S. interests in exploiting lunar resources. Russia has historically opposed American-led space initiatives, reflecting its long-standing space rivalry with the U.S.

- China has largely remained silent on the issue, possibly due to NASA's legal restrictions on cooperating with Chinese space agencies. China may also disapprove of the U.S.'s unilateral approach to space governance and could be monitoring the situation before making a decision.

- Germany has not taken an official stance on the Accords. However, Germany is a key NASA partner in the Artemis program, particularly through its involvement in constructing the Orion spacecraft, which will be used for lunar missions.

Future Plans for the Artemis Program

The Artemis program aims to establish a permanent lunar outpost, complete with an orbital station and a self-sustaining Moon base.

- Artemis 4 (scheduled for September 2028) will send a crew of four astronauts to the Moon for a 30-day mission.

- Artemis 5-11 (2029-2035) will continue lunar exploration efforts.

- Artemis 7 (2031) will mark a major milestone: astronauts will land at the Moon's south pole to establish a habitable lunar base.

The Artemis Accords were created to provide a legal framework for lunar and deep-space exploration, ensuring sustainability and international cooperation. However, China has its own lunar ambitions, planning to construct moon bases by 2035. This sets the stage for growing competition between the U.S. and China in space exploration.

Conclusion: A Step Toward the Future of Space Law

While the Artemis Accords aim to foster peaceful and responsible space exploration, they also highlight the geopolitical tensions shaping the future of space governance. Whether they will become the dominant framework for international cooperation remains uncertain, but they undoubtedly represent a significant step forward in space law and will play a crucial role in shaping humanity's journey beyond Earth.

The agreement has been controversial since its inception in October 2020. Some countries believe it will promote international cooperation in space exploration, while others fear it will undermine their ability to collaborate and explore in space. In addition, some scientists argue that implementation of the Artemis Accords could undermine international law. Despite these concerns, the legal framework represents an important leap forward in international space law, replacing the old "preemptive control" approach with a new "adaptive control" approach. This new approach provides greater flexibility and adaptability in regulating activities in outer space, which is important as we continue to move forward in the exploration and exploitation of the resources of our solar system. The

Artemis Agreement introduces an important innovation in international space law, replacing the "pre-emptive control" approach to regulating space activities with the principle of gradual ("constructive") adaptive control.

While the proactive approach involves the formulation of rules aimed at regulating situations that may arise in the future, adaptive governance recognizes the linkages between social and ecological systems. It involves building a governance system that evolves through adaptation, receiving feedback from both social and ecological systems. Adaptive governance systems require institutions, networks, and interactions among actors. When applied to the development of space resources, this principle implies a gradual and incremental approach to regulating space

resource activities, involving all stakeholders. The Artemis Agreement endorses the principle of adaptive governance and calls on member states to participate in multilateral efforts to improve provisions and introduce new concepts, thereby creating a feedback effect.

The adaptive governance approach is particularly effective when it comes to the regulation of space activities. The nature of space exploration and utilization is constantly changing, and new technological advances and scientific discoveries are constantly emerging. A proactive approach may fail to keep up with these changes, leading to outdated or irrelevant regulations. In contrast, an adaptive governance approach can better take into account changing circumstances and new developments, allowing for more effective regulation of space activities. The Artemis Agreement – a new mechanism or a revolution in the multilateral order of space affairs? The Artemis

Agreement is a major development in the world of space law. As already mentioned, this agreement introduces a new approach to space governance called "adaptive governance," in which countries work together to study and use celestial bodies in a sustainable manner. The agreement establishes guiding principles for human exploration projects and outlines a framework for how the natural resources of space will be used. However, not everyone is in favor of the agreement, and some countries are concerned that it could lead to disputes over ownership rights in space. Despite the controversy, the United States and several other countries have signed on to this multilateral agreement, which is currently under negotiation. What does this mean for the future of space exploration? The main goal of the plan is to return humans to the Moon by 2024, which will require the construction of permanent outposts on the lunar surface, including a special orbital station ("Lunar Gateway") and a self-sufficient lunar base ("Lunar Base Camp"). Permanent human settlement on the Moon would require a

significant investment of money, state-of-the-art technology, and access to the Moon's natural resources to sustain life. Chapter 9 of the Agreement introduces a new concept to international space law: the preservation of space history.

Section 11 of the Artemis Accords addresses the issue of preventing conflicts in space activities. Paragraphs 3 and 4 reference two principles outlined in Article IX of the Outer Space Treaty: first, that states must conduct space activities with due regard for the interests of other treaty parties; second, that they must avoid harmful interference with the activities of others. To implement these principles, Section 11, paragraph 5, of the Artemis Accords mandates that signatories share 'necessary information regarding location and nature' of their activities and establish 'safety zones' to prevent potential harmful interference.

These safety zones are intended to be temporary and serve two key functions. First, they facilitate scientific discovery. Second, in line with Section 10 of the Artemis Accords, they help ensure the 'safe and efficient extraction and utilization of space resources' to support sustainable space exploration and operations. Notably, the Outer Space Treaty does not mention safety zones. Thus, their inclusion in Section 11 of the Artemis Accords represents a novel development. However, the concept is not entirely new in space law. For example, the Hague International Space Resources Governance Working Group (hereinafter the Hague Working Group) has discussed safety zones as a means to promote the long-term sustainability of outer space—an objective also referenced in Section 11, paragraph 2, of the Artemis Accords, which cites the UN Guidelines for the Long-term Sustainability of Outer Space (2019).

This raises the question of whether Section 11 of the Artemis Accords constitutes subsequent practice under Article 31(3)(b) of the Vienna Convention on the Law of Treaties (VCLT), meaning whether it serves as an authoritative

interpretation of the Outer Space Treaty. Section 11, paragraph 7, establishes four principles guiding the creation of safety zones, which signatories are committed to observing. These principles concern the size, scope, and duration of safety zones and are supplemented by provisions on information disclosure, advance notifications, and periodic consultations with other parties. These provisions appear clear, specific, and capable of being systematically applied over time, as signatories have committed to them indefinitely.

However, the creation of safety zones is only one way to prevent harmful interference, meaning Section 11 neither expands nor restricts Article IX of the Outer Space Treaty. Instead, it provides additional clarity while introducing an element of innovation. From this perspective, it meets the criteria for subsequent practice under Article 31(3)(b) of the VCLT. A counterargument is that since the Artemis Accords are a U.S.-led initiative, they do not reflect the consensus of all state parties to the Outer Space Treaty. This concern is not unprecedented in international law. For example, ICSID tribunals have ruled that 'the view of one state does not make international law.' Similarly, in *Japan – Alcoholic Beverages II*, the WTO Appellate Body stated that 'an isolated act is generally not sufficient to establish subsequent practice; rather, it is a sequence of acts demonstrating the agreement of the parties.'

This argument holds weight, as the bilateral agreements incorporating the Artemis Accords have yet to be finalized. Additionally, it remains to be seen whether the nascent space mining industry will adopt the safety zone concept. Given these uncertainties, the Artemis Accords may be regarded as emerging subsequent practice under Article 32 of the VCLT, meaning they serve as a supplementary—not definitive—means of interpreting the Outer Space Treaty. Unlike Article 31(3)(b), Article 32 does not require unanimous agreement among treaty parties. Given the open resistance of some states to the Artemis Accords, this interpretation seems preferable.

Section 9 of the Artemis Accords introduces a novel concept in international space law: the preservation of outer space heritage. Based on the assumption that outer space heritage is of collective interest, it is defined as 'historically significant human or robotic landing sites, artifacts, spacecraft, and other evidence of activity on celestial bodies,' which signatories agree to protect 'in accordance with mutually developed standards and practices.'

Making commercial space mining a practical reality will depend on a range of technological advancements and a solid understanding of the legal landscape. As a professional in intellectual property, I am particularly interested in both aspects. While patents are national intellectual property rights, applying these national laws to space remains an evolving challenge.

From a national standpoint, countries such as the United States, Japan, and, somewhat unexpectedly, Luxembourg and the United Arab Emirates, have enacted laws allowing ownership of extracted space resources. However, to my knowledge, only the U.S. has explicitly linked patents, jurisdiction, and territory in the context of space technology. Given the immense potential for growth in outer space, other nations are likely to introduce similar legislation to foster development in this emerging sector.

The foundation of space law remains the Outer Space Treaty (OST), which came into effect in 1967. Its wording reflects the geopolitical tensions of the time. While the OST successfully achieved its primary goal of preventing conflict in space, its drafters could not have foreseen all future developments. One of the key legal challenges for commercial space mining today is the issue of appropriation.

Article II of the OST states:

"Outer space, including the moon and other celestial bodies, is not subject to national appropriation by claim of sovereignty, by

means of use or occupation, or by any other means."

There are differing interpretations of what "national appropriation" means in the context of resource extraction. Although the exact scope of Article II remains uncertain, it is unlikely that it was intended to impose a blanket ban on acquiring and owning space resources. Given the Cold War-era context in which the OST was drafted, Article II was likely meant to prevent sovereign territorial claims rather than prohibit the use of space resources altogether.

The Artemis Accords, a set of principles focused on sustainable space exploration and utilization, were introduced in October 2020. According to NASA, the Accords affirm that space resource extraction can be conducted within the framework of the OST, particularly Articles II, VI, and XI. Notably, Section 10, Paragraph 2 explicitly states that "the extraction of space resources does not inherently constitute national appropriation."* This marks one of the first direct clarifications regarding the OST's restrictions on national appropriation. However, the precise definition of which resource-extracting activities may be considered appropriation remains unresolved.

One potentially contentious provision of the Artemis Accords is the establishment of so-called "safety zones" around mining sites. While space is vast, competition for key resources—such as water and helium-3 on the moon—is inevitable. These zones are intended to enhance mission safety and prevent conflicts in proximity operations. Signatories to the Accords have committed to four guiding principles governing safety zones, covering aspects such as size, scope, duration, and transparency requirements. However, due to their relatively recent introduction, their exact implications for mining remain unclear.

It will be interesting to see how safety zones are implemented in space mining. There is a possibility that mining sites and their surrounding safety zones could inadvertently lead to de facto national appropriation,

especially if early entrants restrict access to prime mining locations. This challenge may require further legal refinement to ensure alignment with Article II of the OST.

For insight into how lunar mining regulations might evolve, comparisons can be drawn to the Antarctic Treaty and the Prior-Appropriation Water Rights Doctrine, both of which address resource extraction while conceptualizing land ownership in a manner similar to outer space.

The prevailing perspective is that space resource extraction is permissible under Article II of the OST, provided that no territorial claims are made. A useful analogy is fishing in international waters: no one can claim ownership of the ocean, but if you sail out, cast a net, and catch fish, those fish belong to you—so long as you comply with relevant treaties such as the United Nations Convention on the Law of the Sea. Applying this to space, if you extract water from the moon, you theoretically own that water—assuming no violation of existing space treaties.

Since the OST was enacted, there has been gradual progress in clarifying what constitutes appropriation in outer space. The widespread adoption of the Artemis Accords—signed by 48 spacefaring nations as of November 13, 2024—demonstrates that both governments and businesses are eager to engage in space resource acquisition.

Despite this growing interest, the assertion of sovereignty or ownership over celestial bodies remains widely rejected by the international space community. Against this backdrop, I am particularly intrigued by how patents—being inherently territorial rights—will be enforced in space. Given the high-tech nature of space mining and the substantial capital investments involved, companies operating in this domain will expect clear enforcement mechanisms to protect their patented innovations from infringement.

While policymakers are focusing on the acquisition and utilization of space resources,

intellectual property protection has not yet received the same level of attention. However, it is crucial to address this issue with urgency. A well-structured and harmonized patent system for the space industry could prevent significant legal complications in the future. Proactively addressing this challenge now, rather than reacting to it later, will help ensure a more stable and predictable legal framework for commercial space mining.

The Outer Space Treaty does not explicitly provide for space heritage. The closest analogous provision is Article 7, paragraph 3, of the Moon Agreement, which states that parties must report areas of special scientific interest on the Moon to facilitate their designation as international scientific preserves under UN oversight. By analogy, if scientific preserves do not violate the principle of free exploration and use of celestial bodies, the same logic could apply to historical and cultural preserves. Section 9, paragraph 2, of the Artemis Accords supports this analogy by requiring signatories to engage in multilateral efforts to develop rules for protecting space heritage.

In practice, safeguarding historic sites and artifacts on the Moon (and potentially other celestial bodies) necessitates creating safety zones to prevent disturbances, such as the plume effect. The key distinction between safety zones for resource extraction and those for heritage preservation is that the latter serve as deconfliction zones to protect landing sites and non-operational objects, rather than humans or active missions.

Under space law, artifacts and spacecraft launched into outer space remain the property of the state that placed them there. For example, the flags planted by the Apollo 11 mission in 1969 and the Chang'e 5 mission in 2020 remain U.S. and Chinese property, respectively. However, it is unclear whether the same principle applies to 'other evidence of activity,' such as Neil Armstrong's boot prints or the tracks left by the Apollo 15 Lunar Roving Vehicle. The Outer Space Treaty does not

establish criteria for designating objects of historical value as space heritage. Similarly, the UNESCO World Heritage Convention does not apply, as Article 4 states that only objects within a state's territory can be designated as heritage—an approach that conflicts with the Outer Space Treaty's non-appropriation principle in Article II.

Essentially, this means protecting “historically significant” landing sites, artifacts, vehicles, and other evidence of human or robotic activity on celestial bodies. All signatories agreed to adhere to certain standards and practices to protect these celestial bodies. The Artemis Accords are legally tied to the Outer Space Treaty and the Moon Treaty. One of the main tenets of the agreement is to specify how countries must comply with the 1967 Outer Space Treaty, a set of rules for the exploration and use of outer space, including the moon and other celestial bodies. The agreement also addresses the importance of complying with the 1968 Rescue and Return Agreement, which stipulates that countries must ensure the safe return of astronauts and space equipment to Earth. There are also other important space regulations, such as the 1972 Liability Convention and the 1975 Registration Convention. These agreements are intended to ensure that the Artemis mission is carried out responsibly by creating common rules. From the perspective of the Lunar Convention, the agreements do not replace it, but rather complement and develop it, since they cover activities on the surface, in orbit, and inside the Moon, Mars, comets, and asteroids. It also applies to objects moving between these bodies and locations, including stable orbital points known as Lagrangian points in the Earth-Moon system. The Moon Treaty, on the other hand, focuses exclusively on the Moon and requires member states to conduct all activities on the Moon “for the benefit of all nations and as a common heritage of all mankind, regardless of their degree of economic or scientific development.” The guidelines encourage cooperation and exchange among

nations for the purpose of exploring and exploiting space resources in a sustainable manner. It also promotes the concept of adaptive governance to ensure that decisions can be made quickly and flexibly, while respecting the rules set forth in the Outer Space Treaty. The agreement does not address issues such as sharing the benefits of space activities, establishing institutional mechanisms for the implementation and review of the governance framework for space activities, or establishing a dispute resolution mechanism.

However, the guidelines are open to modification and periodic review and could evolve to address these issues in the future. This arrangement encourages further discussion of an international framework for activities related to space resources. The Agreement is innovative in that it provides a new way to reach international agreement on activities in outer space, is fast and flexible, and operates within the framework of the Outer Space Treaty. Overall, the Agreement contributes to the development of international space law without revolutionizing it. Ukraine has also become a signatory to the Artemis Accords. By joining the Agreement, Kiev has committed to abide by the rules set forth in the Guiding Principles. But what does this mean for Ukraine's space goals? First of all, it will give Ukraine access to the advanced technology and expertise of other members of the agreement, which is key to achieving Ukraine's ambitions.

Thus, by joining these agreements, Ukraine will be at the forefront of a new era of space exploration and innovation. These agreements are not mere regulations, but represent a new era of international cooperation in space exploration. By focusing on sustainable human exploration projects, the agreements provide the basis for scientific discoveries and technological advances that could change the course of history. The Accord also includes recommendations on the use of space resources, which can be a lucrative source of income for countries participating in space exploration. By joining the Artemis Accord, all

parties will benefit from this exciting new era of space exploration. Cooperation among member nations is essential to sharing knowledge and resources, reducing the costs of space exploration, and enhancing security measures. In addition, the agreement legalizes resource exploitation, a previously contentious issue in international space law. Overall, the accession of signatory countries to the Artemis Agreement paves the way for them to join a global alliance of space exploration partners and provides an opportunity to contribute to the advancement of space exploration.

Conclusion:

These principles will help to ensure the maintenance of a safe and predictable outer space environment.

1. Peaceful Purposes

Consistent with the Outer Space Treaty, the Artemis Accords affirm that cooperative activities should be exclusively for peaceful purposes and in accordance with international law. [3]

2. Transparency

Transparency is a key principle for responsible civil space exploration and use. Artemis Accords signatories are committed to the broad dissemination of information regarding their respective national space policies and space exploration plans in accordance with their national rules and regulations. [4]

3. Interoperability

Working in the space environment is incredibly challenging. Interoperability enhances the potential for space exploration that is safe and robust among cooperating nations. [5]

4. Emergency Assistance

The provision of emergency assistance is vital. Artemis Accords signatories commit to taking all reasonable efforts to render necessary assistance to personnel in outer space who are in distress and acknowledge their obligations under the Agreement on the Rescue of

Astronauts, the Return of Astronauts and the Return of Objects Launched into Outer Space. [6]

5. Registration of Space Objects

Appropriate registration of space objects can help to mitigate risk of harmful interference. The Artemis Accords reinforce the importance of meeting our obligations under the Registration Convention. [7]

6. Release of Scientific Data

Sharing scientific data with the global community in a timely and transparent manner can help ensure the entire world can benefit from space exploration. [8]

7. Protecting Heritage

Outer space heritage is our shared heritage. Accords signatories intend to preserve historically significant human or robotics landing sites, artifacts, spacecraft, and other evidence of activity on celestial bodies, and contribute to multilateral efforts to further develop applicable international practices and rules. [9]

8. Space Resources

The utilization of space resources should be done in a manner that complies with the Outer Space Treaty, can benefit humankind and is critical to sustainable operations. [10]

9. Deconfliction of Activities

Provisions relating to due regard and harmful interference are key obligations of the Outer Space Treaty. Artemis Accords signatories help implement these obligations by providing notification of their activities, including regarding the location and general nature of their operations, and coordinating with any relevant actor to avoid harmful interference. The area covered by the notification and coordination is referred to as a "safety zone."

10. Orbital Debris and Spacecraft Disposal

Planning to mitigate for orbital debris, as well as disposing safely of spacecrafts, is critical to maintaining a safe environment in space and operating in space sustainably.

The Artemis Accords represent a new framework in the constantly evolving domain of space relations, fostering global collaboration on sustainable projects for human space exploration. They establish principles for the responsible use of space resources and conflict resolution related to space activities. The Artemis program, aimed at returning humans to the Moon and preparing for future missions to Mars and beyond, marks a major milestone for humanity. International cooperation facilitates the exchange of expertise and resources, reducing the cost of space exploration and enhancing safety for all involved parties.

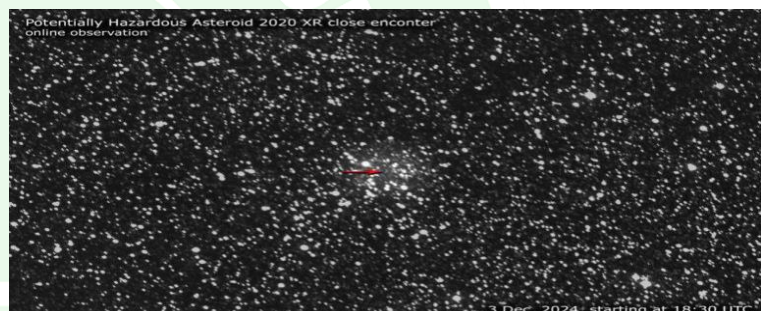
Despite their advantages, the Accords have faced criticism for potentially undermining the foundations of international law. However, by replacing outdated management principles with a more adaptive legal framework, they introduce key innovations in international space law. This new approach allows for more flexible and dynamic regulation, keeping pace with technological advancements and shifting geopolitical realities.

The Accords also legitimize the use of space resources, addressing a previously contentious issue in international space law. By establishing guiding principles for the sustainable and equitable use of natural resources in space, they provide a solid foundation for participating nations. Furthermore, private corporations now benefit from a clearer regulatory framework, giving them greater certainty in their space activities.

By signing the Accords, participants gain access to a global network of space exploration partners and the opportunity to contribute to their development. Adhering to the principles outlined in the document ensures alignment with the objectives of the Artemis program. Additionally, Ukraine can leverage the technologies and expertise of other signatories,

which will be essential in achieving its own space ambitions.

Ultimately, this U.S.-led space initiative paves the way for a sustainable and peaceful future in space exploration. By fostering global cooperation, the Artemis framework promises to drive scientific discoveries and technological advancements. Through collaboration and shared resources, we can achieve ambitious space exploration goals while ensuring the equitable distribution of knowledge and benefits among all nations. The Accords thus represent a significant step forward in humanity's collective efforts to explore, understand, and utilize outer space.



REFERENCE

1. American Presidency Project of the University of California at Santa Barbara, available online at: <http://www.presidency.ucsb.edu/ws/index.php?pid=77372>.
2. Arabsat Fleet information at Arabsat Homepage: <http://www.arabsat.com/Pages/Fleet.aspx>.
3. Bigelow Aerospace Website: <http://www.bigelowaerospace.com/>.
4. Peter Brown, "No Chinese Rockets for U.S. Satellites Yet" Asia Times (19 March 2024), available online at: <http://www.atimes.com/atimes/China/KC19A01.html>.
5. Stephen Clark, "Eutelsat Swaps Rockets for Satellite Launch this Summer" SpaceflightNow. Com (19 February 2024), available online at: <http://spaceflightnow.com/news/n1002/19eutelsatw3b/>.

6. Bruce Crumley, "China's Takeoff in the Space Industry" Time (12 March 2009), available online at: <http://www.time.com/time/world/article/0,8599,1881966,00.html>.
7. Sandra Erwin, "Export Rules under Fire for Eroding U.S. Space Industry" National Defense Magazine (June 2009), available online at: <http://www.nationaldefensemagazine.org/archive/2009/June/Pages/ExportRulesUnderFireforErodingUSSpaceIndustry.aspx>.
8. Eutelsat Fleet information at Eutelsat Homepage: <http://www.eutelsat.com/satellites/satellitelifet.html>.
9. Chris Forrester, "Eutelsat Picks Chinese Launch," RapidTVNews (26 February 2009), available online at: <http://www.rapidtvnews.com/index.php/200902263244/eutelsat-pickschinese-launch.html>.
10. Dominic Gates, "Former 787 chief says Boeing Rethinking its global manufacturing approach" Seattle Times Online (31 October 2007), http://seattletimes.nwsourc.com/html/boeingaerospace/2003986302_webbair01.html.
11. Gunter's Space Page <http://space.skyrocket.de/>.
12. Stanley Holmes, "Boeing's Global Strategy Takes Off" Businessweek Online (30 January 2006) http://www.businessweek.com/magazine/content/06_05/b3969417.htm.
13. Inmarsat Website: <http://www.inmarsat.com/>
14. Bruce Jackson, "An Overview of U.S. Export Controls" (Trade Management and Consulting Group of JP Morgan, August 2008), available online at: www.buyusa.gov/colorado/overview.pdf [Last accessed on October 20, 2024].
15. "Introduction to U.S. Export Controls for the Commercial Space Industry," Department of Commerce Publication (October 2008), available online at: http://www.faa.gov/about/office_org/headquarters_offices/ast/media/intro%20to%20US%20Export%20Controls.pdf (Last Accessed November 17th, 2024) at pg.3.
16. Amy Klamper, "Obama Memo Puts Export Reform on Front Burner", Space News Online (January 15 2010), available online at: <http://www.spacenews.com/policy/100115-obama-memo-putsexport-reform-front-burner.html>.
17. Frank Moring Jr., "NASA Stimulates Commercial Space," Aviation Week (1st February 2010), available online at: http://www.aviationweek.com/aw/generic/story_channel.jsp?channel=space&id=news/awx/2010/02/01/awx_02_01_2010_p0-201241.xml.
18. Ester Pan, "The Scope of China's Military Threat" (Council on Foreign Relations: 2 June 2006), available online at: <http://www.cfr.org/publication/10824/>.
19. Andy Pasztor, "China to Launch Satellite for France's Eutelsat" Wall Street Journal Asia (25 February 2009) online <http://online.wsj.com/article/SB123550142763361701.html>.
20. Jackson Slipek, "U.S. Export Controls: Is There a New Sheriff in Town," available online at: SDCExec.Com (2009) <http://www.sdcexec.com/online/article.jsp?siteSection=13&id=11400&pageNum=1> [Last accessed on October 20, 2024].
21. Benjamin Sutherland, "Why America Is Lost in Space" Newsweek Online (9 February 2009), available online at: <http://www.newsweek.com/id/182544>.
22. Virgin Galactic Website: <http://www.virgingalactic.com/>. See also Space-X Website: <<http://www.spacex.com/>>.
23. Xinhua News Agency, "Bolivia Set to Buy Chinese Telecom Satellites" China Daily (9 September 2009), available online at: Chinadaily.com http://www.chinadaily.com.cn/china/2009-09/25/content_8736008.htm.
24. Ryan Zelnio, "The effects of export control on the space industry" (16 January 2006) on the website The Space Review:



INTERNATIONAL JOURNAL OF SPACE LAW AND POLICY

VOLUME 3 AND ISSUE 1 OF 2025

APIS – 3920 – 0014 (*and*) ISSN – 2584-1955 [IF SCORE – 7.58]

Published by
Institute of Legal Education

<https://iledu.in>

<http://www.thespacereview.com/article/533/1>

