



*Promoting Cooperative Solutions for Space Sustainability*

# **Security in Outer Space: Overview and Recent Trends**

Victoria Samson  
Washington Office Director  
Secure World Foundation

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# Why Does Space Security Matter?

- Changing nature of the space domain
  - 3 “C’s”: Space is increasingly ***congested, contested, and competitive***
- Goal: ***stable, predictable space environment***
  - Will allow us to enjoyed continued benefits from use of and access to space



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# Threats to Space Security and Stability

- Space weather
- Space debris
- Radio frequency interference
- Anti-satellite weapons (ASATs)

- *Types* of ASATs
- *Cold War* history of ASATs
- ASAT tests in the *past five years*



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# USG Space Guidance

- Obama Administration's National Space Policy
- National Security Space Strategy
- 2012 Defense Strategic Guidance
- Overall: emphasis on *international cooperation, responsible space behavior*

# International Approaches

- Four main treaties
- 2008 Proposed Treaty on the Prevention of Placement of Weapons in Outer Space, the Threat or Use of Force Against Outer Space Objects (**PPWT**)
- Deadlocked UN Conference on Disarmament (**CD**)
- UN Committee on Peaceful Uses of Outer Space (**COPUOS**)
- UN **Group of Government Experts** on Space TCBMs
- Proposed **Code of Conduct** for Outer Space Activities



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# Who We Are

- Secure World Foundation *is an endowed, private operating foundation* that promotes cooperative solutions for space sustainability
- **Our vision:** the secure, sustainable and peaceful use of outer space that contributes to global stability on Earth
- **Our mission:** SWF works with governments, industry, international organizations and civil society to develop and promote ideas and actions for international collaboration that achieve the secure, sustainable, and peaceful uses of outer space

- **Informing:** SWF generates research and analysis for decision-makers to promote creation of sound policy and raise awareness of key issues that may threaten the security, sustainability and utility of outer space
- **Facilitating:** SWF convenes timely public and private meetings with stakeholders on key issues to encourage discussion and constructive dialog for next steps in support of its mission
- **Promoting:** When viable solutions or next steps become apparent, SWF formulates and disseminates policy positions that are aligned with its vision and mission in order to move them from idea to implementation



- **Permanent offices**
  - Broomfield, CO (Headquarters)
  - Washington, DC
  - Brussels, Belgium
- **Active participation in many organizations and forums**
  - International Astronautical Federation (IAF)
  - International Academy of Astronautics (IAA)
  - World Economic Forum
  - Permanent Observer to the United Nations Committee on Peaceful Uses of Outer Space (COPUOS)

- Space ***environment and crowding issues***, including space debris and space situational awareness
- Development of ***space law and policy*** in both ***developed and emerging space states***
- Use of space for ***human and environmental security and socioeconomic benefits*** on Earth
- Encouraging ***international cooperation*** and involvement of all stakeholders

- Feb. 3, 2012: Trash in the Skies: The Challenge of Space Debris
- Nov. 9, 2011: The Dragon's New Eyes: China's Space-Based Surveillance Capabilities, Doctrine, Strategy, and Implications
- Nov. 3, 2011: Russia's Space Plans
- **We have recently co-sponsored events in WDC, Beijing, Bogota, Cape Town, Brussels, Geneva, New Delhi, NYC, Vienna, Mexico City, and Luxembourg**



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# Contact Information

**Questions?**

**Thanks!**

**[vsamson@swfound.org](mailto:vsamson@swfound.org)**

**1.202.568.6213**