



Promoting Cooperative Solutions for Space Sustainability

Outer Space: Norms and Emerging Challenges

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Changing Nature of the Space Domain

- Shift in how we approach space affects possibilities for space and security
- Goal: *stable, predictable space environment*
 - Will allow us to enjoy continued benefits from use of and access to space
 - Increasingly important role of commercial entities

Dual-Use Space Technologies

- Space technologies can be *dual-use*
 - *Intent, not hardware*, going to be key
 - How do you *demonstrate responsible*, non-threatening use of space?
 - Even more relevant for next generation issues like active debris removal or on-orbit servicing
- International *cooperation can clarify* intent
 - *Norms of behavior* can help



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USG Space Guidance

- 2010 National Space Policy
- 2011 National Security Space Strategy
- 2012 Defense Space Policy
- Overall: emphasis on *international cooperation, responsible space behavior*
- Possible changes in U.S. counterspace strategy



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International Initiatives for Responsible Space

- 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**)



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International Initiatives for Responsible Space (2)

- UN *Group of Government Experts* on Space TCBMs
- UN Committee on Peaceful Uses of Outer Space (*COPUOS*)
Guidelines for Long-term Sustainability of Space Activities
- International *Draft Code of Conduct (CoC)* for Outer Space Activities



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Draft International Code of Conduct

- 1st draft of the Code of Conduct (CoC) was released for international discussions in October 2010
- *Stumble* on first diplomatic efforts
- U.S. position: *support *a* CoC*, use this CoC as a foundation for future discussions
- International meetings held around the world to raise awareness and increase support of the CoC
- 4th and most recent version of the draft released in March 2014

CoC Strengths and Weaknesses

- *Reinforces good behavior* by space actors
- Promotes *international cooperation*
- The inclusion of “*self-defense*” has concerned some
 - But this is a right that is included in the United Nations Charter and so its removal could impact some countries’ ability to sign onto the CoC
- *Disconnect* between what various participants believe the CoC is intended to cover
 - Security issues or simply peaceful use of space?



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Future Challenges for Space Norms

- Anti-satellite tests
- Active debris removal/rendezvous and proximity operations
- Resource extraction



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Contact Information

Questions?

Thanks.

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