SPACE SECURITY INDEX



United Nations Committee on the Peaceful Uses of Outer Space

17 February 2009

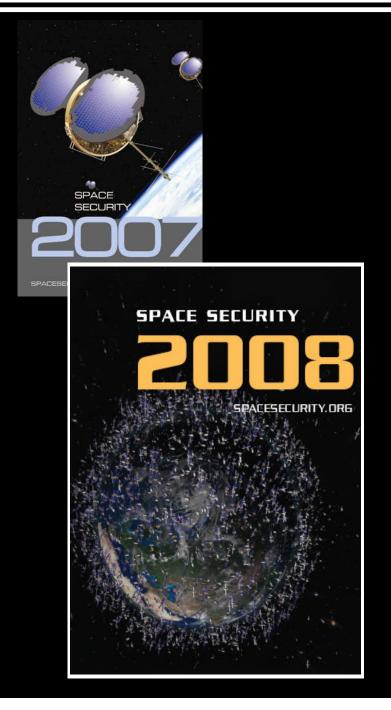


INTRODUCTION

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The Space Security Index



- Annual assessment of the status of space security, since 2004
- Provides objective and fact-based analysis to promote transparency and confidence in space activities
- Summarizes major trends in space security
- Supports the development of policy to ensure secure access to space for all States





Defining Space Security

- The secure and sustainable use of space
- Freedom from space-based threats

SSI Methodology

- Yearly research on trends and developments
- Online consultation
- Expert review of research and analysis



Space Security Indicators



- 1. The Space Environment
- 2. Laws, Policies, and Doctrines
- Civil Space Programs and Global Utilities
- 4. Commercial Space
- 5. Space Support for Terrestrial Military Operations
- 6. Space Systems Protection
- 7. Space Systems Negation
- 8. Space-Based Strike Systems



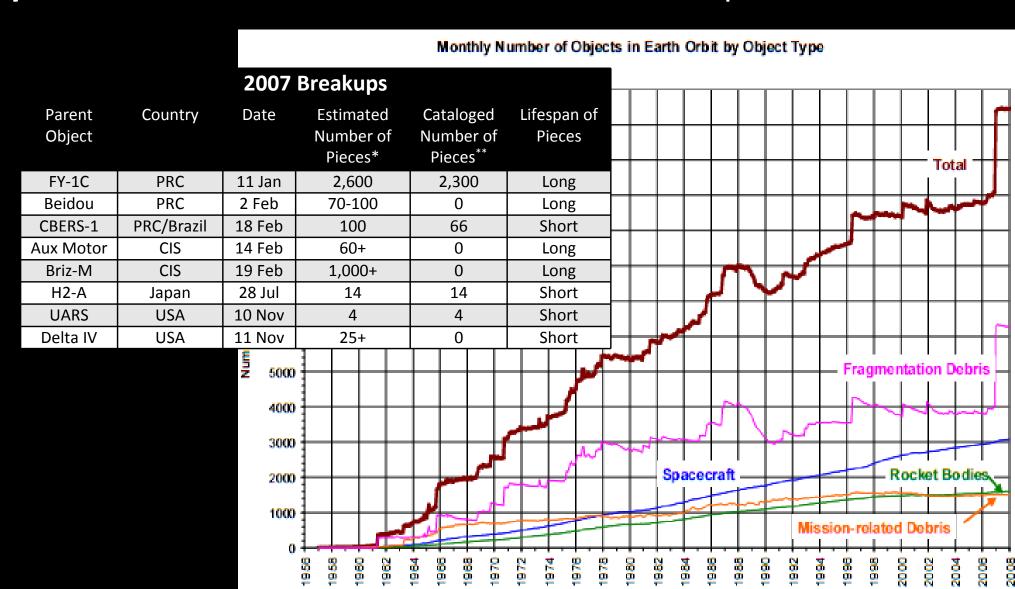
Critical challenges to space security:

- Operating environment challenged by debris, crowding in key orbits and limited monitoring
- Proliferation of technologies that could threaten secure and sustainable access to space
- Growing number and diversity of actors in space



Operating in space

Space debris is an **indiscriminate threat** to all space actors

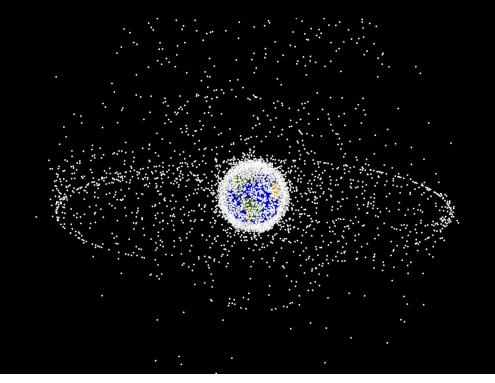


Year



Limited ability to *monitor* the space environment

- Limited capabilities to see into space and follow objects
- Limited international cooperation on space situational awareness
- Limited transparency of space activities





Proliferation of space technologies

Proliferation of technologies that could threaten secure and sustainable access to and use of space:

- Ground-based technologies
- Space-based technologies
- Space-to-Earth enabling technologies





Growth of space actors

Access to outer space is growing

New space actors emerging

Greater demands on space resources

More actors gaining a variety of independent *space technologies*

But: new actors and increased awareness of the need present new opportunities for space governance



Space Security Index Partners

Project Ploughshares—Jessica West, project director and editor

- McGill Institute of Air and Space Law, McGill University
- Secure World Foundation
- Simons Center for Disarmament and Non-Proliferation
- Space Generation Foundation
- Department of Foreign Affairs and International Trade,
 Canada
- Ploughshares Fund



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