



# Developments within the United Nations system related to Space Weather

Space Weather as a Global Challenge  
18 May, 2017

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# Space Weather and Diplomacy

past UN COPUOS activities



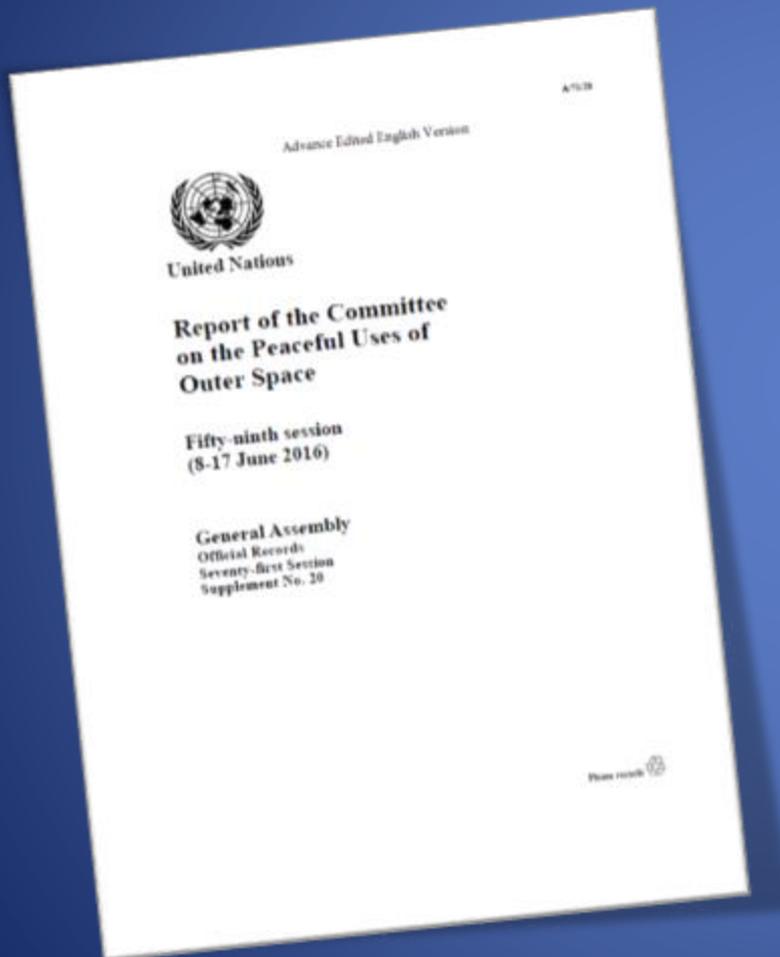
- International Heliophysical Year in 2007
- International Space Weather Initiative (ISWI)
  - Initiated by the Heliophysics Science community in 2009.
  - Inauguration at the Scientific and Technical Subcommittee (UN COPUOS), Vienna, Austria, February 2010.
  - **Capacity building workshops** held in Egypt, Nigeria, Ecuador, Austria, and Japan.

# ISWI Instrument Distribution

## 112 countries and all 7 continents



# UN COPUOS Guidelines for the long-term sustainability of outer space activities: first set\*



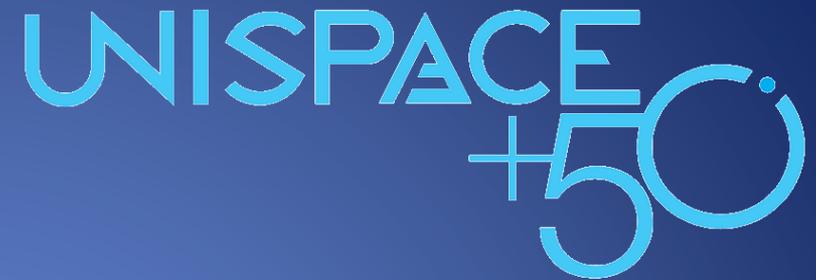
**Guideline 16** - Share operational space weather data and forecasts

**Guideline 17** - Develop space weather models and tools and collect established practices on the mitigation of space weather effects

**Guideline 25** - Promote and support capacity-building

# UNISPACE+50

20 to 21 June 2018



## Seven Thematic Priorities

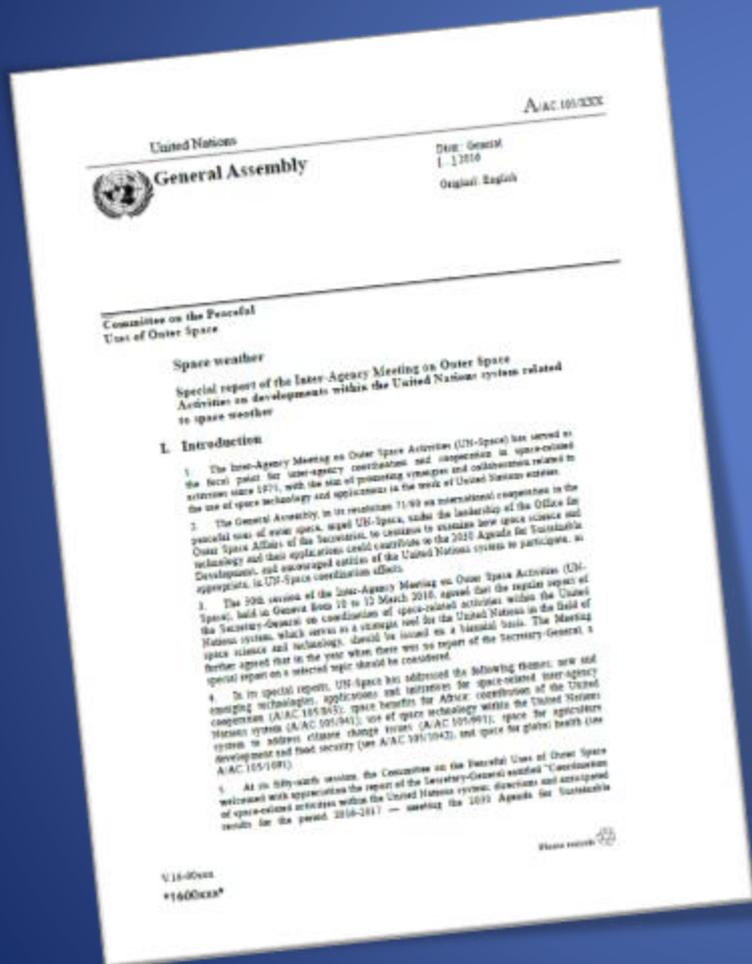
1. Global partnership in space exploration and innovation
2. Legal regime of outer space and global space governance: current and future perspectives
3. Enhanced information exchange on space objects and events
4. **International framework for space weather services**
5. Strengthened space cooperation for global health
6. International cooperation towards low-emission and resilient societies
7. Capacity-building for the twenty-first century

# UNISPACE+50 thematic priority: International Framework for Space Weather Services.

The objectives for this priority are to:

1. **Strengthen the reliability of space systems** and their ability to respond to the impact of adverse space weather;
2. Develop a **space weather road map for international coordination** and information exchange on space weather events and their mitigation, through risk analysis and assessment of user needs;
3. **Recognize space weather as a global challenge** and the need to address the vulnerability of society as a whole; and
4. Increase awareness through developed **communication, capacity-building and outreach.**

# Special Report by UN-Space on Space Weather in the context of the preparations for UNISPACE+50



**Summarizes** developments within the United Nations system related to space weather

**To be issued**, for consideration by COPUOS at its sixtieth session in June 2017.

**Prepared by** the **Office for Outer Space Affairs** in cooperation with the International Atomic Energy Agency (**IAEA**), International Civil Aviation Organization (**ICAO**), International Telecommunication Union (**ITU**), World Health Organization (**WHO**), World Meteorological Organization (**WMO**), et al...

# UN/US Workshop on the International Space Weather Initiative:

The Decade after the International Heliophysical Year



Boston College, Chestnut Hill, MA  
31 July 31 – 4 August, 2017

# UN/US Workshop on the International Space Weather Initiative: The Decade after the International Heliophysical Year 2007

## Agenda for High Level Session: 31 July 31 – 1 August

### Introduction to UN/US Activities

#### **Session 1:** International Recognition of Space Weather Risks

Panel on Space Weather Risks and Mitigation Needs

#### **Session 2:** Building on Today's Space Weather Foundation

Panel on Improving Research and Operational Services

Panel on Observing Infrastructure for Research and Operations

Panel on International Elements of a Coordination Framework

#### **Session 3:** Developing an International Framework for Space Weather Services

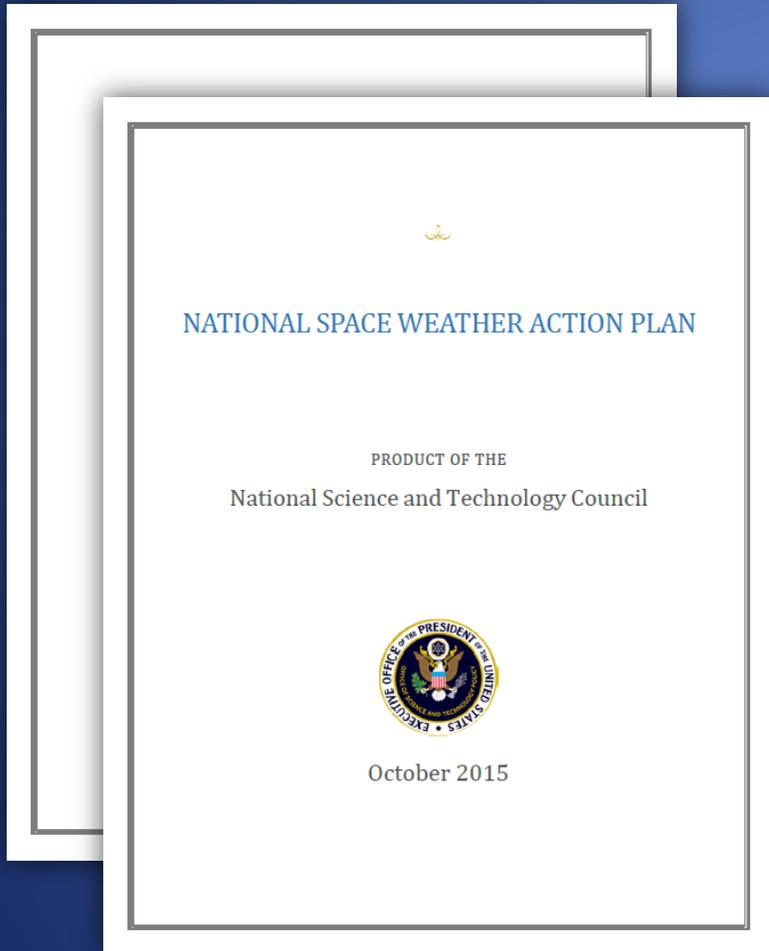
### Start of ISWI Technical Sessions

**THANK YOU**

**EXTRAS**

# U.S. National Space Weather Strategy & Action Plan

## Goal 6 - Enable Increased International Cooperation



### GOAL 6 OBJECTIVES:

- Build international support at the **policy level** for acknowledging space weather as a global challenge
- Increase engagement with the international community on **observation infrastructure**, data sharing, numerical **modeling**, and scientific **research**
- Strengthen international coordination and cooperation on space weather **products and services**
- Promote a collaborative international approach to extreme space weather **preparedness**