



**The United Nations Platform for Space-based Information for
Disaster Management and Emergency Response (SPIDER)**



Update for IAM 2007

**The United Nations Platform for
Space-based Information for Disaster Management
and Emergency Response (SPIDER)**

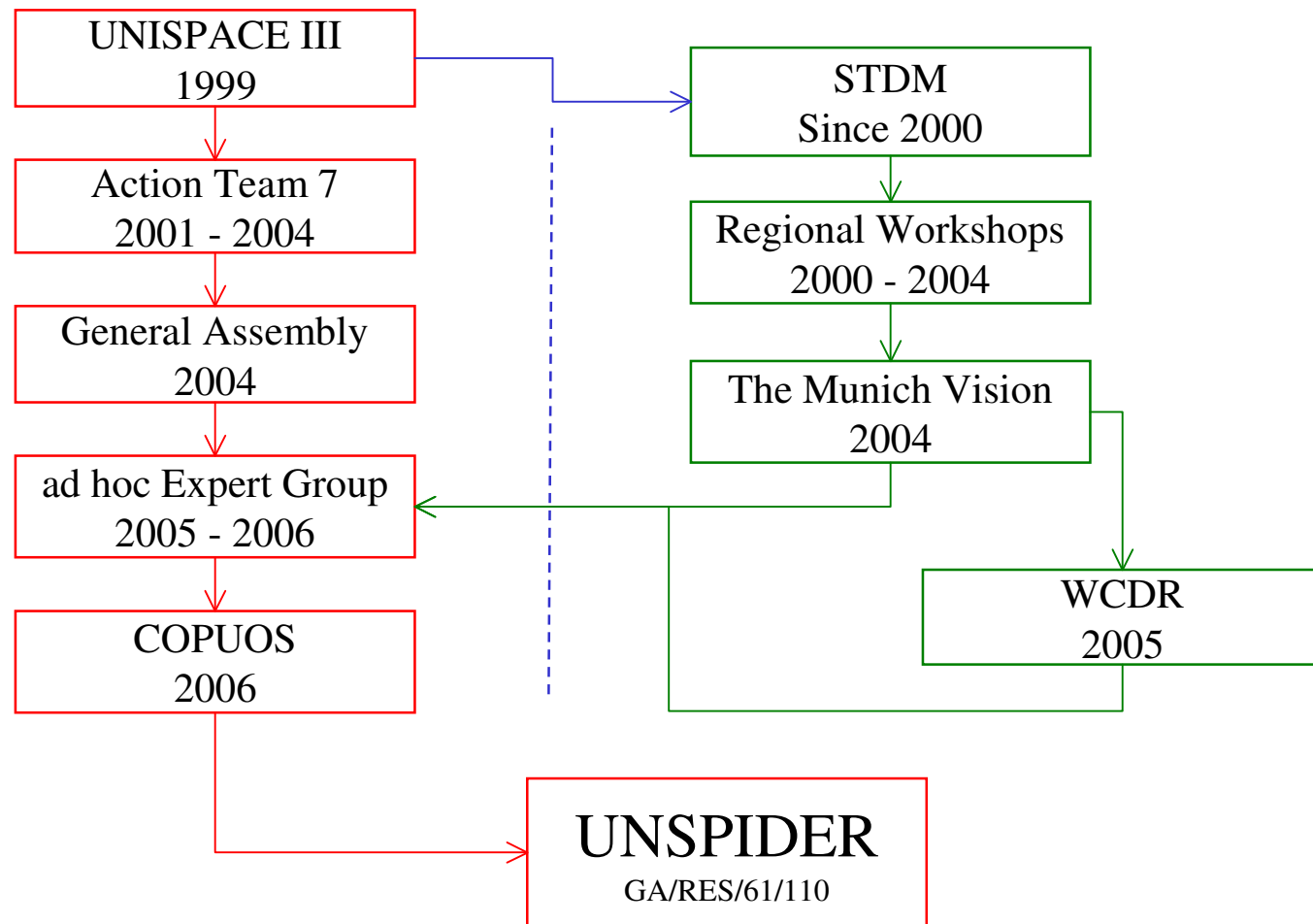
David Stevens
United Nations Office for Outer Space Affairs



The United Nations Platform for Space-based Information for Disaster Management and Emergency Response (SPIDER)



Long Journey





The United Nations Platform for Space-based Information for Disaster Management and Emergency Response (SPIDER)



General Assembly A/RES/61/110

- United Nations Platform for Space-based Information for Disaster Management and Emergency Response (SPIDER).
- Mission statement: “Ensure that all countries have access to and [develop the capacity to] use all types of space-based information to support the full disaster management cycle”.
- A programme of the United Nations Office for Outer Space Affairs.
- Besides Vienna, SPIDER will also have offices in Beijing and Bonn, Germany.



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The Role of SPIDER

- In 1999 when UNISPACE III delegates first highlighted the need for a space-based disaster management support system, the first thought was that there was the need for a dedicated global and coordinated system to be designed, built, launched and made operational with the support of interested countries. The fact is since then several initiatives have already started providing support to specific phases of the disaster management cycle (mostly though the response phase) and for specific geographic regions and countries. The ad hoc Expert Group concluded that what was really needed was a coordinating entity that brought together the disaster management and the geospatial communities. SPIDER will be this coordinating entity and will help developing countries and the various end users access and use space technology for disaster management and emergency response.



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Building Upon Existing Initiatives

- The International Charter Space and Major Disasters
- GEOSS
- GMES and GMOSS
- IGOS-P
- Sentinel Asia
- Constellation of Disaster Monitoring Satellites
- Providing Value-Added Services
 - UNOSAT
 - ZKI
 - RESPOND
 - MapAction



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SPIDER Activities

A Gateway to Space-based Information for Disaster Management Support

1. Compilation of Information
2. Access to Information
3. Awareness Raising
4. Outreach and Consensus Building
5. Regional and Country Profiles

A Bridge to Connect the Disaster Management and Space Communities

1. Support to Communities of Practice (CoP)
2. Knowledge Management and Transfer
3. Platform for Fostering Alliances

A Facilitator of Capacity Building and Institutional Strengthening

1. Support to National Activities
2. Support to Establishing National Planning and Policies
3. Support to Capacity Building



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UNSPIDER – Next Steps

- Preparation of a 2007 – 2009 Platform Programme and a 2007 Work Plan
- Draft document prepared by UNOOSA and being initially discussed with Austria, China and Germany
- 1-day Meeting during S&T to present and discuss both proposed documents with other interested Member States that have committed resources.
- Presentation of the 2007 – 2009 Platform Programme and the 2007 Work Plan to S&T for consideration and approval



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What is the Charter ?

- An International agreement among Space Agencies to support with space-based data and information relief efforts in the event of emergencies caused by major disasters.
 - ⊕ **Disaster response**
 - ⊕ **Multi-satellite data acquisition planning**
 - Fast data turn-around – priority acquisition
 - ⊕ **Archive retrievals and spacecraft tasking**
 - ⊕ **Data processing at pre-determined level**
 - ⊕ **Space Agency contribution in image/data**
 - ⊕ **Space Agency initiative for value-added-data fusion**





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European Space Agency (ESA)

ERS, ENVISAT

Centre national d'études spatiales (CNES)

SPOT

Canadian Space Agency (CSA)

RADARSAT

Indian Space Research Organisation (ISRO)

IRS

National Oceanic and Atmospheric Administration (NOAA)

POES, GOES

Argentina's Comisión Nacional de Actividades Espaciales (CONAE)

SAC -C

Japan Aerospace Exploration Agency (JAXA)

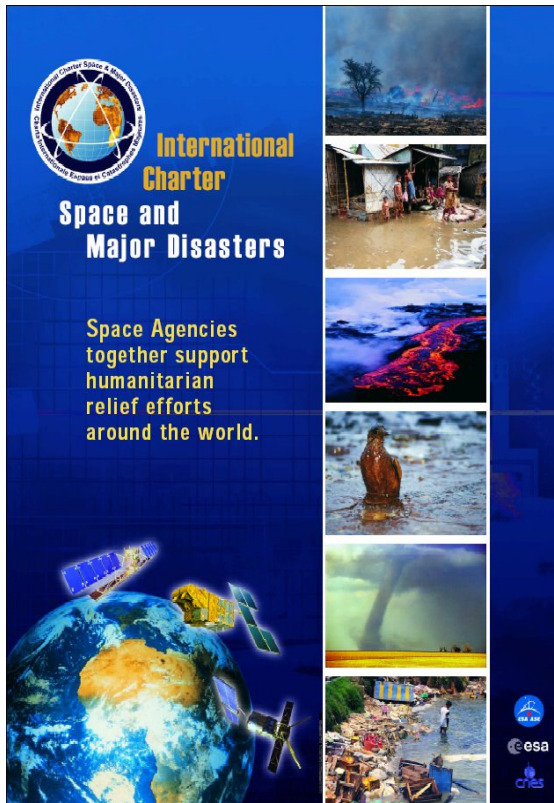
ALOS

United States Geological Survey (USGS)

LANDSAT

Disaster Monitoring Constellation (DMC)

UK, Nigeria, Algeria, Turkey

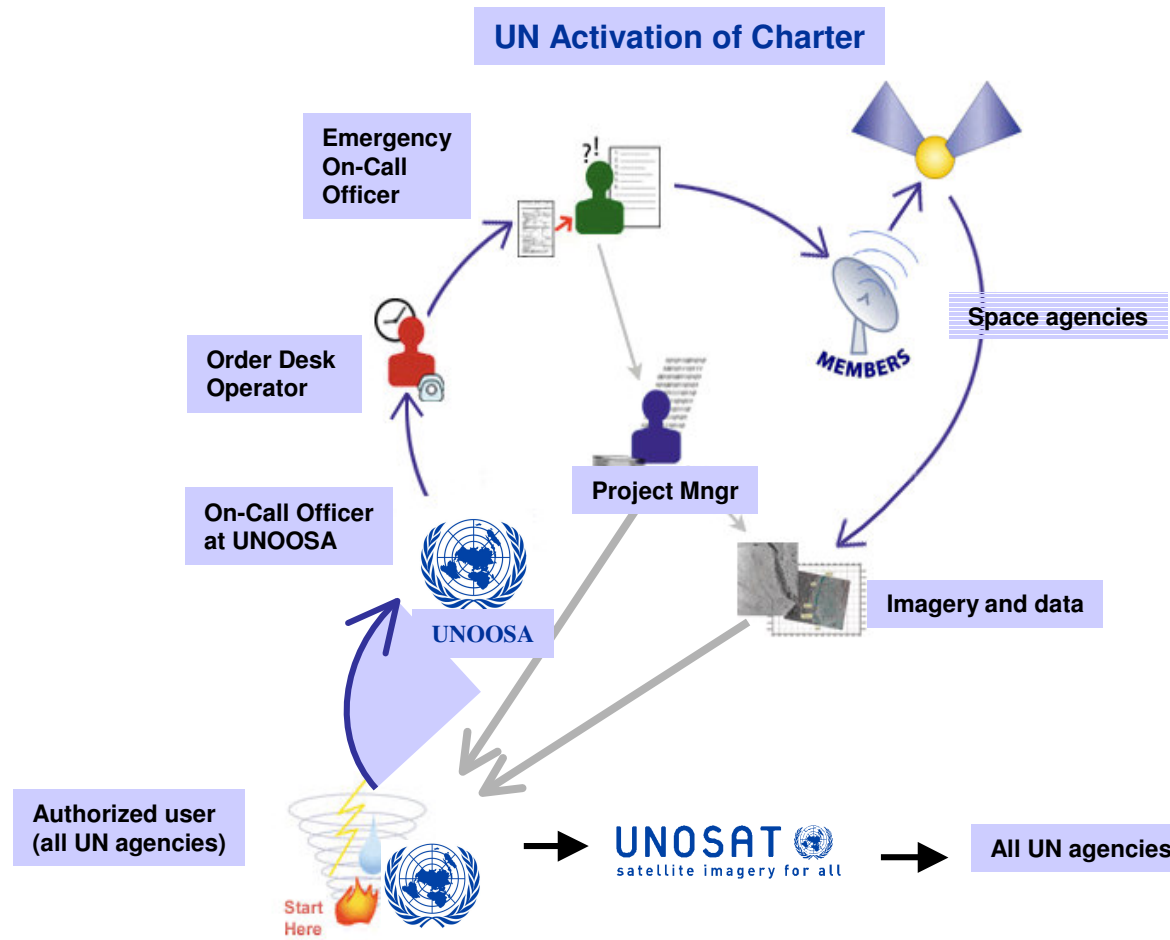




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UN Activation of the Charter





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UN Activations of the Charter in 2006

25 Activations in 2006
 11 Initiated by the UN
 All in Developing Countries

International Charter
Space and Major Disasters

- Main
- Recent Activations
- The Charter
- Activating the Charter
- The Charter in Action
- Agencies - Resources
- News - Announcements
- The Charter for Schools
- Media Information
- Links

Landslide in the Philippines

Type of Event:	Landslides
Location of Event:	St Bernard, the Philippines
Date of Charter Activation:	17/02/2006
Charter Requestor:	United Nations Office for Outer Space Affairs (UNOOSA)
Project Management:	ESA

No.	Date	Country	Disaster Type	Requested by	Project Manager
33	27 Dec.	Indonesia	Floods	WFP Aceh Office (Sven Thilen) OCHA (Jesper H. Lund)	UNOSAT
32	01 Dec.	Philippines	Typhoon	OCHA (Jesper H. Lund)	Pacific Disaster Centre
31	28 Nov. 13 Nov.	Somalia	Floods	FAO (Craig von Hagen) OCHA (Thierry Delbreuve)	UNOSAT
30	03 Nov.	Ethiopia	Floods	WFP (Menghestab Haile)	UNOSAT
29	03 Nov.	Sri Lanka	Floods	UNDP (Ananda Mallawatantri)	UNOSAT
28	25 Aug.	Sudan	Floods	WFP (Giorgio Sartori)	UNOSAT
27	23 Aug.	Philippines	Oil Spill	Joint UNEP/OCHA Environment Unit (Vladimir Sakharov)	UNOSAT
26	17 Aug.	Ethiopia	Floods	WFP (Menghestab Haile)	UNOSAT
25	11 Aug.	Pakistan	Floods	Pakistan SUPARCO through OCHA(Oliver Lacey-Hall)	UNOSAT
24	10 May	Surinam	Floods	OCHA (Jesper H. Lund)	ESA
23	17 Feb.	Philippines	Landslide	OCHA (Jesper H. Luna)	ESA



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3rd UN-Wide Charter Meeting – Geneva - 20 March 2006

- UNOOSA and UNITAR/UNOSAT jointly convened the third UN-wide meeting on the “The United Nations and the International Charter Space and Major Disasters”.
- A total of 30 participants attended the meeting representing 9 UN agencies and 12 partner institutions
- Focus on updates from the Charter; review of the work carried out with the imagery received by the UN; discussion on the operational aspects, accessing the products and providing feed-back; and discussion of the Common Vision
- Updated the Common Vision for 2006
- Prepared a position paper that was presented at the Charter Meeting in Frascati on 15 April 2006



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**United Nations Office for Outer Space Affairs
Vienna International Centre**

P.O. Box 500, A-1400 Vienna, Austria

Tel: (+43 1) 26060-4951 Fax: (+43 1) 26060-5830



david.stevens@unvienna.org

www.unoosa.org

THANK-YOU