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Promotion of Application of Space Technology into DRR

Asian Conference on Disaster Reduction 2010

(ACDR 2010)

17-19 January 2010

Kobe (Hyogo) - Japan

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United Nations Platform for Space-based Information for Disaster Management and Emergency Response

United Nations Office for Outer Space Affairs - UNOOSA

The Office is responsible for promoting international cooperation in the peaceful uses of outer space, to support the achievement of development goals for the benefit of humankind

The Office implements the decisions of the United Nations General Assembly and of the Committee on the Peaceful Uses of Outer Space and its two Subcommittees, the Scientific and Technical Subcommittee and the Legal Subcommittee.

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Space Technologies for Disaster Risk Management

Satellite communications help warn people who are at risk, especially in remote areas. They help connect a disaster zone to the outside world. Also support telemedicine networks

Images from remote sensing satellites help assess the damage caused by disasters like earthquakes, volcano eruptions, oil spills and floods.

Photo Credit:UNHCR

Global navigation satellite systems enable us to obtain positional information on events that have to be mapped

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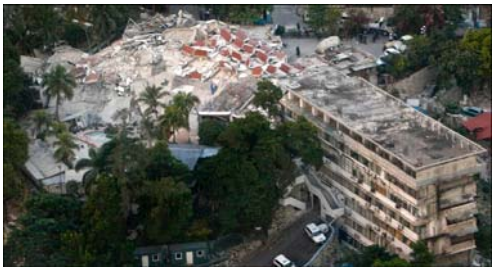
Haiti 12 January 2010

Haiti's presidential palace before (top) and after the earthquake Photo: AFP/GETTY



UN Mission HQ in Haiti

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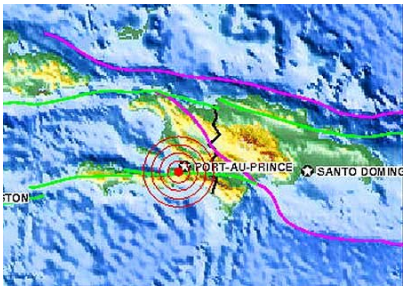
Focus on emergency response



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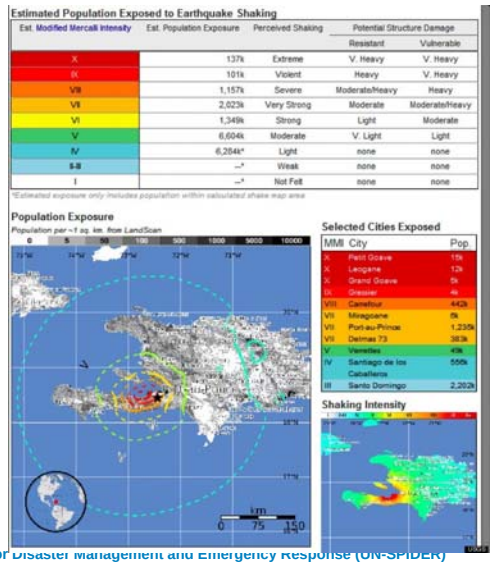
U.S. geologists presented a paper at the 18th Caribbean Geological Conference in Santo Domingo in 2008 concluding that Port-au-Prince, which had not been hit by a major seismic event since 1751, could face a 7.2 magnitude earthquake.



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The Space-Community perspective…

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…the Disaster Management Community reality…

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HORIZONAL COOPERATION
Knowledge Portal
The UN-SPIDER Knowledge Portal is a web-based tool for information, communication and process support. Users can find and share case studies, guides and products through the portal.
The Knowledge Portal's dynamic matrix enables rapid information access
Fostering Cooperation
UN-SPIDER bridges the gap between the space and disaster management communities. UN-SPIDER fosters alliances and creates forums where both communities can meet.
TECHNICAL ADVISORY SUPPORT
UN-SPIDER Activities
OUTREACH AND CAPACITY BU
Technical Advisory Support
UN-SPIDER provides support to countries in assessing national capacity and in evaluating disaster and risk reduction activities, policies and plans with regard to the use of space-based technologies.
Capacity Building
UN-SPIDER facilicates capacity building and institutional strengthening, including the development of curricula and an e-learning platform (e-SPIDER).
…and many more
United Nations Platform fo
nse (UN-SPIDER)
10

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UN-SPIDER Network

- UN-SPIDER Team
- Network of Regional Support Offices (RSOs)
- National Focal Points

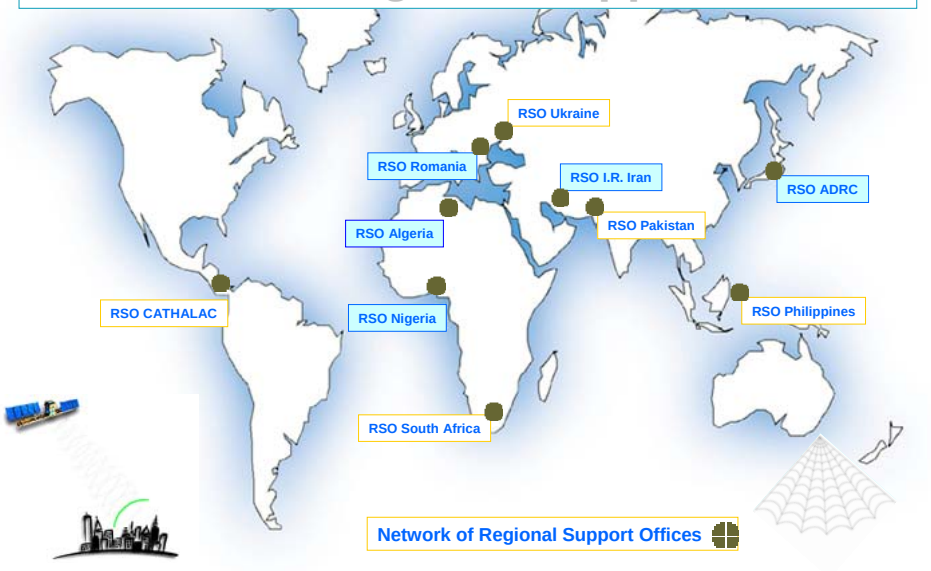
UN-SPIDER TEAM

UN-SPIDER in Vienna

UN-SPIDER Beijing Office

UN-SPIDER Bonn Office

UN-SPIDER Regional Support Offices



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NFP – National Focal Points

- **UN-SPIDER supports all countries through National Focal Points (NFP). A NFP is a national institution, nominated by the Government of the respective country, representing the disaster management and space application communities**
- **Role: to work with UN-SPIDER staff to strengthen national disaster management planning and policies and implement specific national activities that incorporate space-based technology solutions in support of disaster management.**
- **Nominations received from: Algeria, Austria, Belarus, Belize, Bolivia, Bosnia & Herzegovina, Burundi, China, Egypt, El Salvador, Ethiopia, India, Iraq, Jordan, Kenya, Malawi, Malta, Mauritania, Mauritius, Morocco, Myanmar, New Zealand, Philippines, Qatar, Republic of Korea, Senegal, Singapore, Spain, Syria, Tanzania, Thailand, Trinidad and Tobago, Turkey, UAE, and Ukraine.**

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Technical Advisory Support

Technical Advisory Support can range from a simple consultative phone call to full-fledged in situ technical support. It often materializes in any of the following three forms: 1. Technical Advisory Missions involving experts from various space and disaster management agencies and countries under the umbrella of one mission; 2. Technical advice to national institutions by means of meetings, teleconferences, video conferences, etc; 3. Facilitating direct cooperation between national institutions and satellite imagery providers.

Technical Advisory Support provides know-how on the latest disaster management practices involving space technology. Ensures access to international cooperation and regional opportunities, networking with regional institutions, and setting up disaster management plans. It also covers region-specific aspects such as trans-boundary issues, emergency response, risk assessment, GIS based disaster management systems, and disaster risk reduction.

Technical Advisory Support

Technical Advisory Missions

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Ensuring Horizontal Cooperation
§ SPIDER Global Thematic Partnership – established at the 2nd GPDRR. Working together to ensure access and use for disaster risk reduction.
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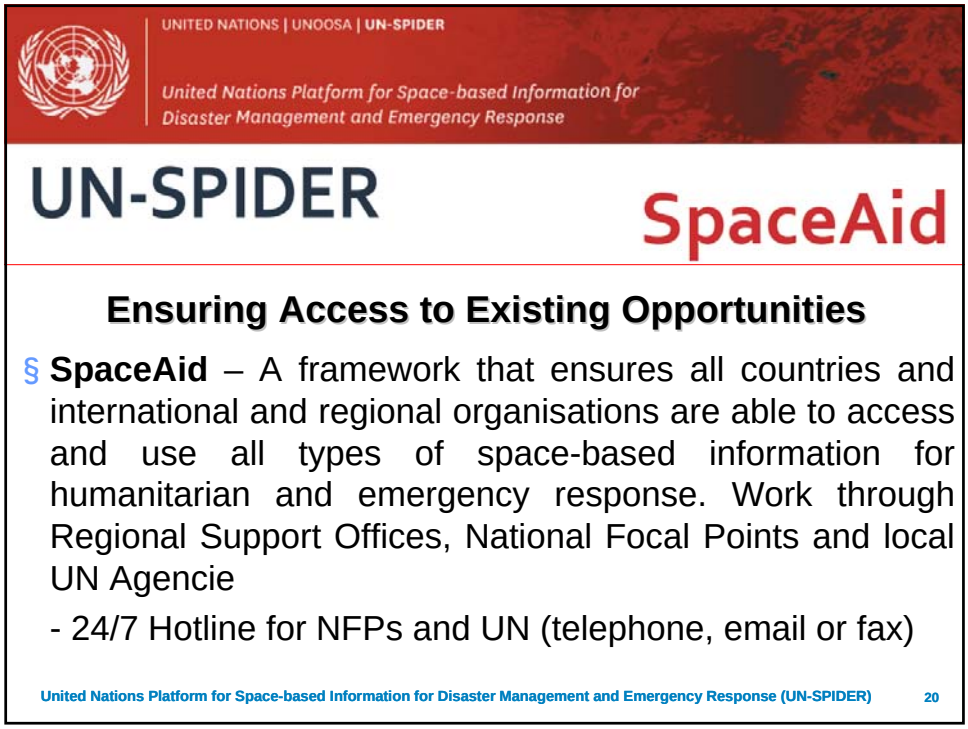
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SpaceAid
Ensuring Access to Existing Opportunities
§ SpaceAid – A framework that ensures all countries and international and regional organisations are able to access and use all types of space-based information for humanitarian and emergency response. Work through Regional Support Offices, National Focal Points and local UN Agencie
- 24/7 Hotline for NFPs and UN (telephone, email or fax)
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SpaceAid Disaster Webpage

- Updated information on the disaster
- Updated information on available products
- Information on available pre- and post disaster images
- UN-SPIDER contact points
- Information on Satellite and Sensor Tasking
- Available geospatial data sets
- Other Space-based information
- Situation Reports and additional relevant links

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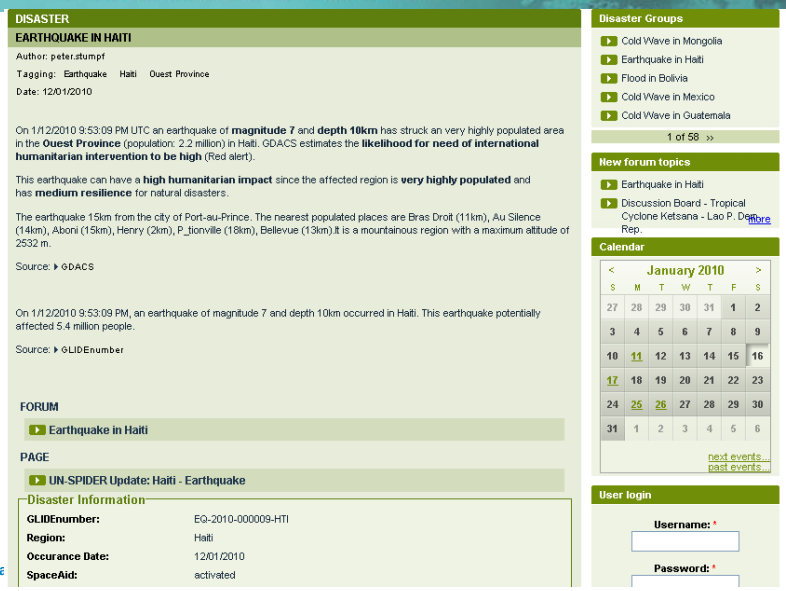

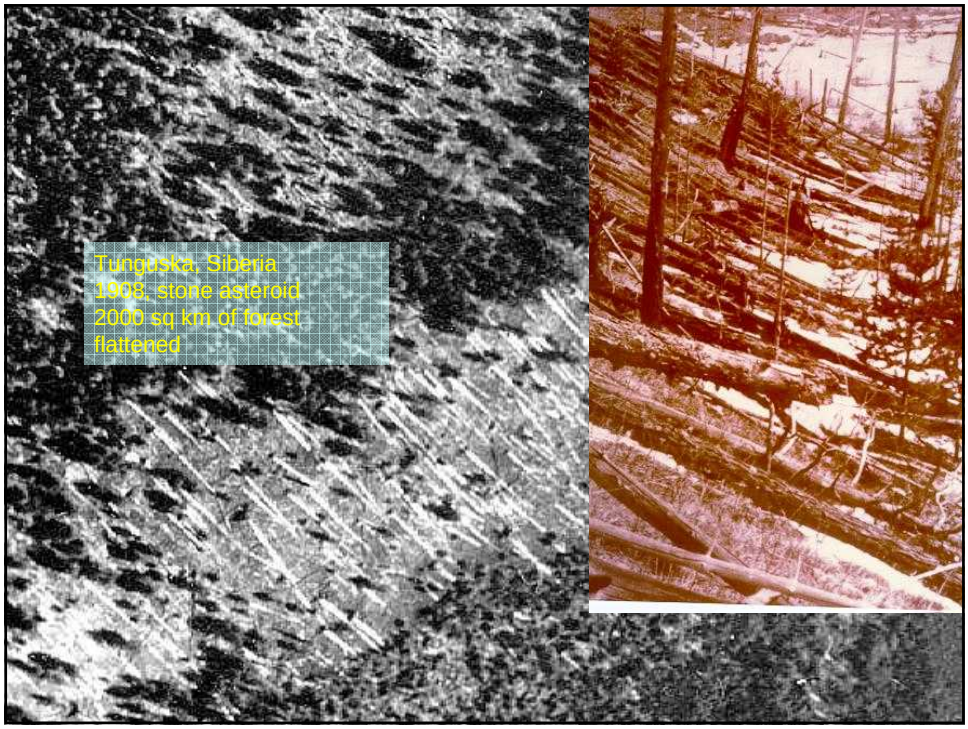
Tunguska, Siberia
1908 stone asteroid
2000 sq km of forest
flattened

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www.unspider.org
E-mail: un-spider@unoosa.org
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24