



UNITED NATIONS
Office for Outer Space Affairs



Deutsches Zentrum
für Luft- und Raumfahrt
German Aerospace Center

User involvement: Needs and Interfaces on the UN-SPIDER Knowledge Portal

Anne Knauer
Robert Backhaus
UN-SPIDER

Fifth International UN-SPIDER
Bonn Workshop on Disaster
Management and Space
Technology
24 – 26 April 2012





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





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Disaster Management and Emergency Response

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IN FOCUS



**Crowdsourcing Mapping
Event: Open for
applications...**



**UN-SPIDER supports space
applications workshop in...**



**Support for locust outbreak
in Libya and Algeria...**



UN-SPIDER Expert Meeting on Crowdsourcing Mapping: Now open for applications

UN-SPIDER Expert Meeting on Crowdsourcing Mapping is
open for applications until 8 June 2012. The UN-...

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UN-SPIDER-WORLD



UN-SPIDER-World

See a geographical representation of
news, events, contact points, etc.

NEWS AND UPDATES

[News](#) [Updates](#) [Newsletters](#)



THU APR 19 2012

**UN launches new initiative for urban risk
management**



TUE APR 17 2012

**UN-SPIDER inaugurates international training
course in India**



MON APR 16 2012

**CATHALAC: Analysis on fires in Central
America**



FRI APR 13 2012

**Ban Ki-moon stresses importance of disaster
risk reduction**

[more...](#)

SPACE APPLICATION MATRIX



The Space Application Matrix allows you to explore the possibilities of using space technologies for disaster management in all phases of the disaster cycle: mitigation, preparedness, response and recovery. With this tool you can access case studies, the **Space Application Guides**, authored by experts and practitioners. They describe experiences from the application of space technology, and address benefits, lessons learned, and further potential, as the case may be.

[Enter the Space Application Matrix >>](#)

NETWORK

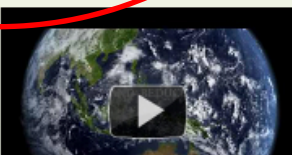
[RSO](#) [NFP](#) [Guides](#)

Regional Support Offices



WHAT IS UN-SPIDER

UN-SPIDER aims at providing universal access to all types of space-based information and services relevant to disaster management by being a gateway to space



PUBLICATIONS

[Featured](#) [Publications](#) [Information Materials](#)

VALID

The Value of Geo-Information for Disaster
and Risk Management - Banerjee, Bhattacharya

**PUBLICATION
PROJECT: The
Value of Geo-
Information for
Disaster and**

EVENTS

[Upcoming](#) [Calendar](#) [Past](#)

**Fifth United Nations International UN-
SPIDER Bonn Workshop on...**
24/04/2012 - 26/04/2012
UN Campus Bonn

**UN-SPIDER**

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Admin Panel

Non-Profit Organization

UN-SPIDER, the United Nations Platform for Space-based Information for Disaster Management and Emergency Response, aims at providing universal access to all types of

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Events



556

UN-SPIDER February 2010 Updates
Issue Date: 05/03/2010
this issue: UN-SPIDER



Now

March

2012

2011

Joined Facebook

Highlights ▾



Status



Photo / Video



Event, Milestone +

Write something...



UN-SPIDER shared a link.

Tuesday

Bob Gough from MilsatMagazine describes UN-SPIDER's Space Application Matrix as "a very easy-to-use, intuitive method of finding the right documents from a large library of information". Read his grasping article about earthquakes for further details.



OPS: And The Earth Shook... : MilsatMagazine
www.milsatmagazine.com

MilsatMagazine : OPS: And The Earth Shook... - by Bob Gough, Asia-Pacific Contributing Editor : SatNews Publishers.

Like · Comment · Share



UN-SPIDER shared a link.

Monday

UN-SPIDER facilitates support for locust outbreak in Libya and Algeria

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**Emil Alexander Cherrington**

📍 In the context of CATHALAC's role as a UN-SPIDER Regional...

👍 1 · April 14 at 4:51pm

**Emil Alexander Cherrington**

In the context of CATHALAC's role as a UN-SPIDER Regional...

March 20 at 3:51pm

**Rushi Ghadawala**

Aryavarta Space Organisation [A.S.O] announces the first I...

March 19 at 2:36pm

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Community/Government

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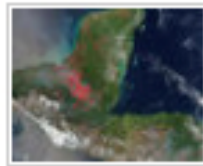
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United Nations Platform for Space-based Information for
Disaster Management and Emergency Response

People reached



550



MON APR 16 2012

**CATHALAC: Analysis on fires
America**



FRI APR 13 2012

5.500



19.000



Islamic Republic of Iran Regional Support Office



3rd Annual Meeting of UN-SPIDER Regional Support...



UN-SPIDER's RSO in the Islamic Republic of Iran...



Iran names OIC satellite 'volunteers'



UN-SPIDER's RSO in the Islamic Republic of Iran supports APSCO Training Course

The Iranian Space Agency, in its role as a UN-SPIDER's RSO, represented the UN-SPIDER Programme in the "APSCO Training Course on Environment and Disaster

[Read more](#)

At a glance:

The UN-SPIDER Regional Support Office (RSO) in Iran is hosted by the Iranian Space Agency (ISA). The RSO was established in 2009 under a cooperation agreement between ISA and the United Nations Office for Outer Space Affairs (UN-OOSA). ISA is the national focal point for all space research and activities in Iran, as well as Remote Sensing and Tele-medicine. With the support of ISA, the RSO held several national and international workshops, training courses and exhibitions. RSO has implemented several projects in the field of disaster management and emergency response especially in Drought monitoring and forecasting, Earthquake damage assessment and fault movement and also Forest Fire detection. Developing a GeoPortal is one of the other ongoing projects of the RSO.

Available expertise:

- More than 25 experts in the field of RS, GIS and IT at ISA
- Vast number of expertise in all areas of GeoInformation at different national universities

Infrastructure:

- Ground receiving stations (NOAA-AVHRR, MODIS, FY2E, FY2D)
- Satellite data centre + Huge storage capacity
- RS satellites (under manufacturing)
- 24/7 high speed internet access
- GeoPortal

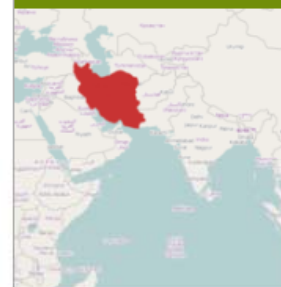
Available databases and space-based information:

A GeoPortal to access:

- archived Landsat imagery of the Middle East
- archived IRS 1C/1D imagery of the Middle East
- all daily acquired imagery of NOAA-AVHRR through the local ground receiving station since 1996
- all daily acquired imagery of TERRA-MODIS through the local ground receiving station since 2001

Capacity Building:

UN-SPIDER World



Get in touch

Main Contact

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Upcoming events

Fifth United Nations International UN-SPIDER Bonn Workshop on...
24/04/2012 - 26/04/2012
UN Campus Bonn

International Workshop on Drought
Monitoring, Assessing and...
04/08/2012 - 05/08/2012
Beijing Normal University

[more](#)[more...](#)

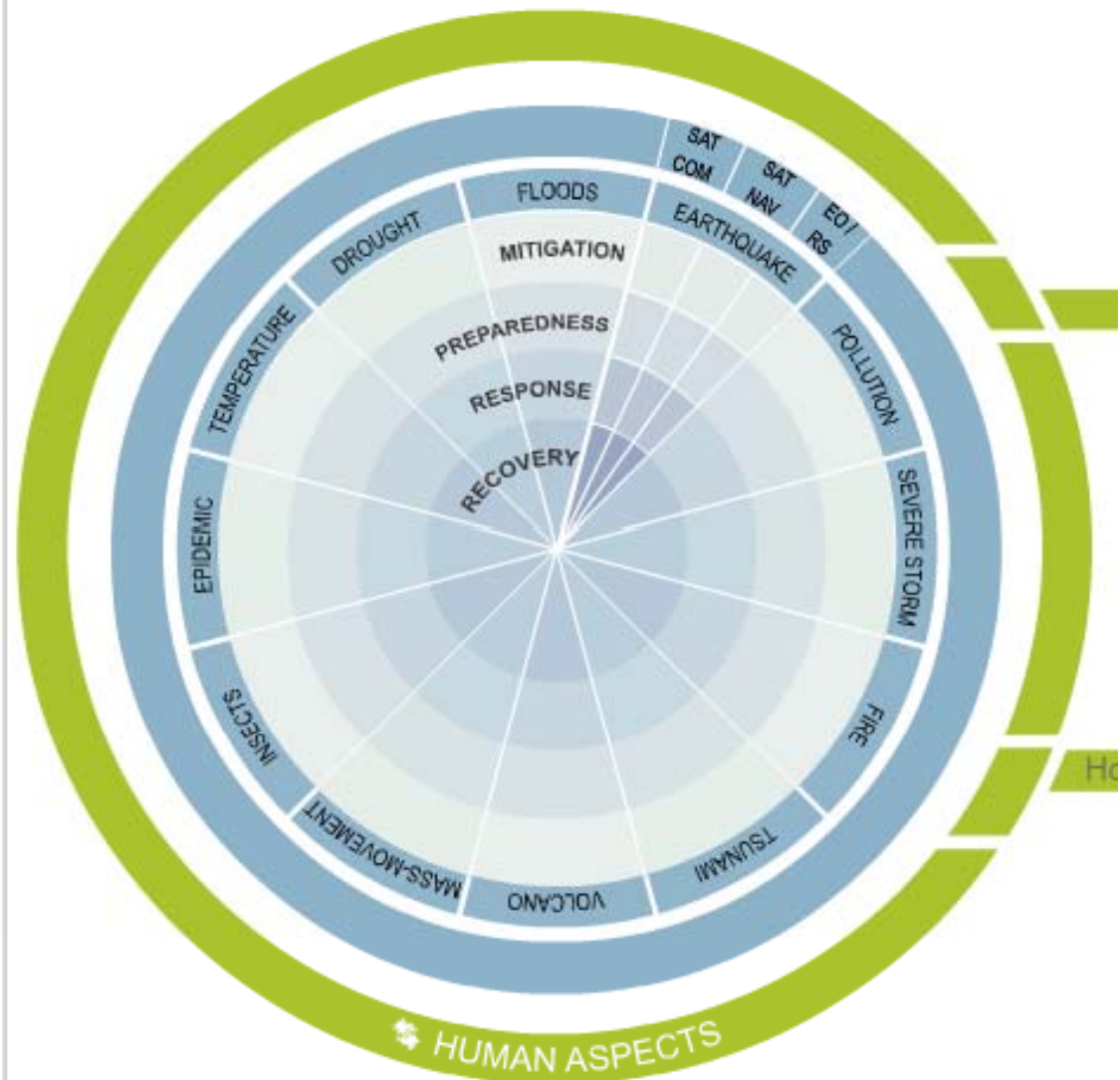
Training activities



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Space Application Matrix View: Disasters

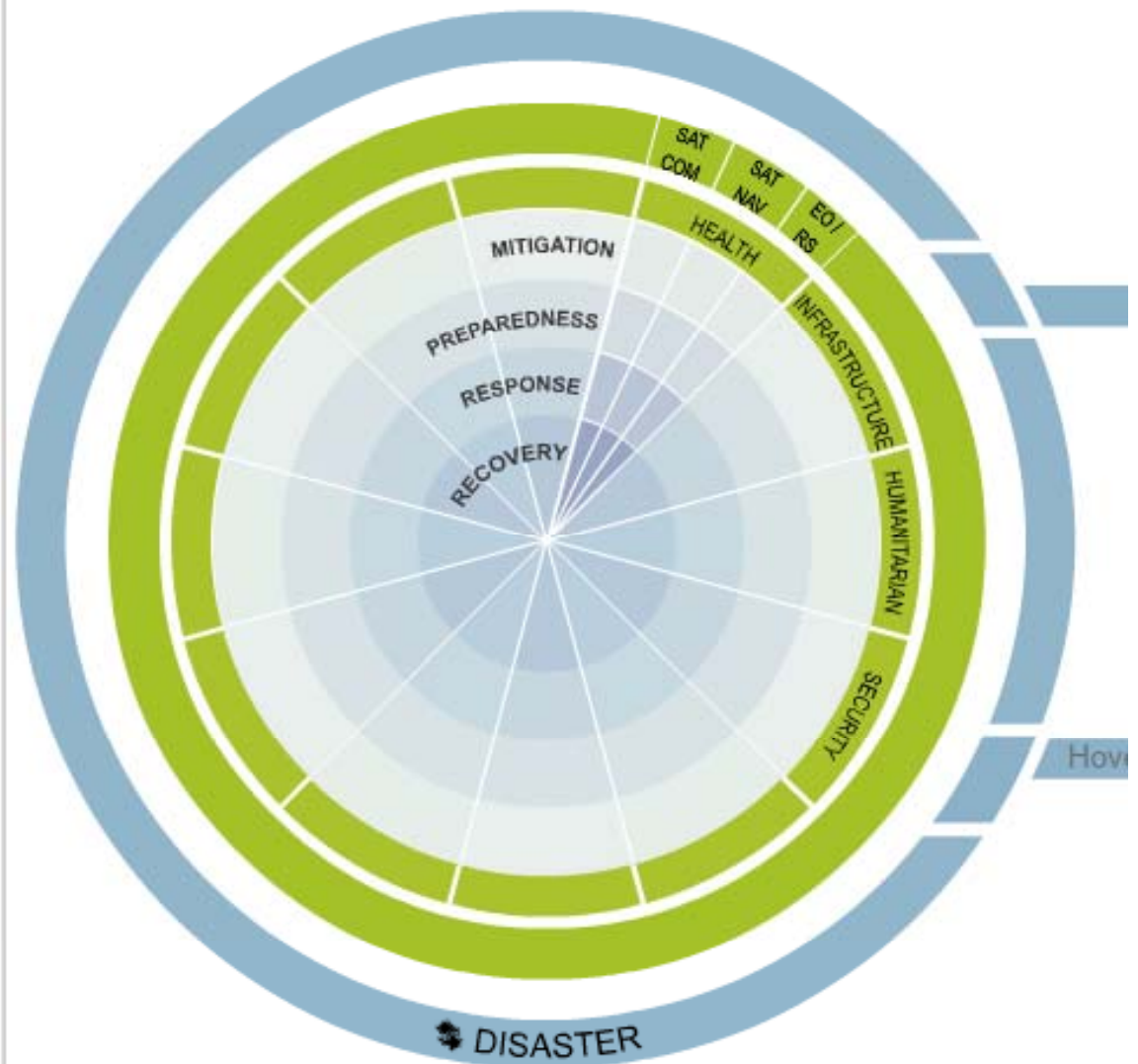




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Space Application Matrix View: Human Aspects





Space Application Matrix Results

Below you can find the results for your selection:

- Relief & Response
- Flood
- EO/RS

Product / Application	Used Space Technology	Case Study
• Damage Assessment Map	IRS-1C	• Defining a Space-Based Disaster Management System for Floods: A Case Study for Damage Assessment due to 1998 Brahmaputra Floods
	IRS-1D	• Defining a Space-Based Disaster Management System for Floods: A Case Study for Damage Assessment due to 1998 Brahmaputra Floods
	ERS-1	• Study of Flood Extent with Remote Sensing
	SPOT-2	• Study of Flood Extent with Remote Sensing
• Inundation Map	RADARSAT-1	• Improved Estimation of Flood Parameters by Combining Space Based SAR Data with Very High Resolution Digital Elevation Data
	QUICKBIRD	• Deployment of Remote Sensing Technology for Multi-Hazard Post-Katrina Damage Assessment within a Spatially-Tiered Reconnaissance Framework
	LANDSAT-7	• Deployment of Remote Sensing Technology for Multi-Hazard Post-Katrina Damage Assessment within a Spatially-Tiered Reconnaissance Framework • TerraSAR-X Rapid Mapping for Flood Events
	IKONOS	• Improved Estimation of Flood Parameters by Combining Space Based SAR Data with Very High Resolution Digital Elevation Data
	TerraSAR-X	• Improved Estimation of Flood Parameters by Combining Space Based SAR Data with Very High Resolution Digital Elevation Data • TerraSAR-X Rapid Mapping for Flood Events
	IRS-1D	• Defining a Space-Based Disaster Management System for Floods: A Case Study for Damage Assessment due to 1998 Brahmaputra Floods

Applications available or send to get some results popup page.

To exit the results page, press 'Esc', or choose the "X" at the top-right corner to close the popup.



Defining a Space-Based Disaster Management System for Floods: A Case Study for Damage Assessment due to 1998 Brahmaputra Floods

A proto-type space-based disaster management system (DMS) has been organized with comprehensive database design, space-based near real-time monitoring/mapping tools, modelling framework, networking solutions and multi-agency interfaces. With the appropriate synthesis of these core elements, a system-definition of the frame-work of a DMS has been arrived at, in terms of developing a methodology towards damage assessment due to 1998 Brahmaputra floods. The limited validation experiments carried out in consultation with local level functionaries reveal that the experimental results on damage to agricultural crops due to floods are in conformity with field conditions. Still, there is a gap existing between the estimates arrived at and the estimates derived from conventional methods. It is herein that a concerted effort towards achieving absolute accuracy is called for. The conceived DMS ultimately aims at providing a holistic design and development of an information system, mainly to support the information needs for preparedness, prediction, damage assessment, rehabilitation and research; networking, mainly to be able to speedily provide access to the information system at any point of time from any place and decision, making, to support speedy and efficient decisions being taken, actions being implemented along with feedback mechanisms.

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Bibliographic reference:

Venkatachary, K.V. et al. (2001): Defining a Space-Based Disaster Management System for Floods: A Case Study for Damage Assessment due to 1998 Brahmaputra Floods. Current Science, Vol. 80, No. 3., 369-377.

Source URL:

[Defining a Space-Based Disaster Management System for Floods: A Case Study for Damage Assessment due to 1998 Brahmaputra Floods](#)

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Points to discuss

- „Crowdsourcing“ for content collection, updating & quality control: Shaping network interfaces
- Motivating contributions: How to enagage user input?
- Giving access: technical issues for user driven content
- „Best practice“: How to bring to together multiple experiences from within a community