



UNITED NATIONS
Office for Outer Space Affairs

United Nations International Conference on Space-based Technologies for Disaster Risk Management “Best Practices for Risk Reduction and Rapid Response Mapping”

David STEVENS, United Nations Office for Outer Space Affairs

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The United Nations System

UN Principal Organs

General Assembly

Security Council

Economic and Social Council

Secretariat

International Court of Justice

Trusteeship Council⁴

Subsidiary Bodies

Main and other sessional committees
Disarmament Commission
Human Rights Council
International Law Commission
Standing committees and ad hoc bodies

Programmes and Funds

UNCTAD United Nations Conference on Trade and Development
• **ITC** International Trade Centre (UNCTAD/WTO)
UNDP United Nations Development Programme
• **UNCDF** United Nations Capital Development Fund
• **UNV** United Nations Volunteers
UNEP United Nations Environment Programme
UNFPA United Nations Population Fund

UN-HABITAT United Nations Human Settlements Programme
UNHCR Office of the United Nations High Commissioner for Refugees
UNICEF United Nations Children's Fund
UNODC United Nations Office on Drugs and Crime
UNRWA¹ United Nations Relief and Works Agency for Palestine Refugees in the Near East
UN-Women United Nations Entity for Gender Equality and the Empowerment of Women
WFP World Food Programme

UNITAR United Nations Institute for Training and Research
UNRISD United Nations Research Institute for Social Development
UNSSC United Nations System Staff College
UNU United Nations University

Other Entities

UNAIDS Joint United Nations Programme on HIV/AIDS
UNISDR United Nations International Strategy for Disaster Reduction
UNOPS United Nations Office for Project Services

Research and Training Institutes

UNICRI United Nations Interregional Crime and Justice Research Institute
UNIDIR¹ United Nations Institute for Disarmament Research

Related Organizations

CTBTO Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization
IAEA² International Atomic Energy Agency
OPCW Organisation for the Prohibition of Chemical Weapons
WTO World Trade Organization

Subsidiary Bodies

Counter-terrorism committees
International Criminal Tribunal for Rwanda (ICTR)
International Criminal Tribunal for the former Yugoslavia (ICTY)
Military Staff Committee
Peacekeeping operations and political missions
Sanctions committees (ad hoc)
Standing committees and ad hoc bodies

Advisory Subsidiary Body

UN Peacebuilding Commission

United Nations Office for Outer Space Affairs

Functional Commissions

Crime Prevention and Criminal Justice
Narcotic Drugs
Population and Development
Science and Technology for Development
Social Development
Statistics
Status of Women
Sustainable Development
United Nations Forum on Forests

Regional Commissions

ECA Economic Commission for Africa
ECE Economic Commission for Europe
ECLAC Economic Commission for Latin America and the Caribbean
ESCAP Economic and Social Commission for Asia and the Pacific
ESCWA Economic and Social Commission for Western Asia

Other Bodies

Committee for Development Policy
Committee of Experts on the Administration
Committee on Non-Governmental Organizations
Permanent Forum on Indigenous Issues
United Nations Group of Experts on Geographical Names
Other sessional and standing committees and expert, ad hoc and related bodies

Specialized Agencies³

ILO International Labour Organization
FAO Food and Agriculture Organization
WHO World Health Organization
IAEA International Atomic Energy Agency
ITU International Telecommunication Union
UNESCO United Nations Educational, Scientific and Cultural Organization
UNEP United Nations Environment Programme
UNEP/WHO International Commission on the Health and Safety of Space Workers and Other Radiation Exposed Personnel
UNEP/WFP United Nations Environment Programme/World Food Programme
WFP World Food Programme
WFP/WHO United Nations World Food Programme/World Health Organization
WFP/WHO/IAEA United Nations World Food Programme/World Health Organization/International Atomic Energy Agency
WFP/WHO/IAEA/UNEP United Nations World Food Programme/World Health Organization/International Atomic Energy Agency/United Nations Environment Programme
WFP/WHO/IAEA/UNEP/UNESCO United Nations World Food Programme/World Health Organization/International Atomic Energy Agency/United Nations Environment Programme/United Nations Educational, Scientific and Cultural Organization
WFP/WHO/IAEA/UNEP/UNESCO/UNEP/WHO/IAEA/UNEP/UNESCO United Nations World Food Programme/World Health Organization/International Atomic Energy Agency/United Nations Environment Programme/United Nations Educational, Scientific and Cultural Organization/United Nations Environment Programme/World Health Organization/International Atomic Energy Agency/United Nations Environment Programme/United Nations Educational, Scientific and Cultural Organization

World Bank Group

• **IBRD** International Bank for Reconstruction and Development
• **IDA** International Development Association
• **IFC** International Finance Corporation
• **MIGA** Multilateral Investment Guarantee Agency
ICSID International Centre for Settlement of Investment Disputes

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Departments and Offices

EOSG Executive Office of the Secretary-General
DESA Department of Economic and Social Affairs
DFS Department of Field Support
DGACM Department for General Assembly and Conference Management

DM Department of Management
DPA Department of Political Affairs
DPI Department of Public Information
DPKO Department of Peacekeeping Operations
DSS Department of Safety and Security
OCHA Office for the Coordination of Humanitarian Affairs

OHCHR Office of the United Nations High Commissioner for Human Rights
OIOS Office of Internal Oversight Services
OLA Office of Legal Affairs
OSAA Office of the Special Adviser on Africa
SRSO/CAAC Office of the Special Representative of the Secretary-General for Children and Armed Conflict

UNODA Office for Disarmament Affairs
UNOG United Nations Office at Geneva
UN-OHRLLS Office of the High Representative for the Least Developed Countries, Landlocked Developing Countries and Small Island Developing States
UNOCI United Nations Operation in Côte d'Ivoire
UNOV United Nations Office at Vienna

NOTES:

- ¹ UNRWA and UNIDIR report only to the General Assembly.
- ² IAEA reports to the Security Council and the General Assembly.
- ³ Specialized agencies are autonomous organizations working with the UN and each other through the coordinating machinery of ECOSOC at the intergovernmental level, and through the Chief Executive Board for Coordination (CEB) at the inter-secretariat level. This section is listed in order of establishment of these organizations as specialized agencies of the United Nations.
- ⁴ The Trusteeship Council suspended operation on 1 November 1994 with the independence of Palau, the last remaining United Nations trust territory, on 1 October 1994.

This is not an official document of the United Nations, nor is it intended to be all-inclusive.

The core business of the United Nations Office for Outer Space Affairs is “to promote international cooperation in the use of outer space to achieve development goals for the benefit of humankind”.





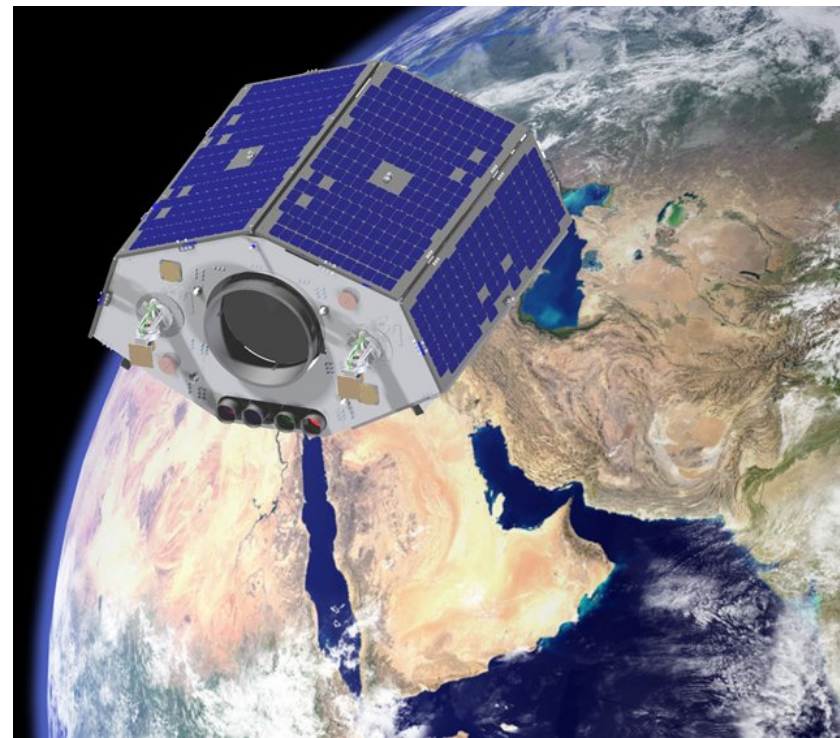
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Space is a growing business

... with an expected increase of over 50% in the decade from 2011-2020 with a forecast of over 1100 satellites.



HJ-1A



NigeriaSat-2 over Africa
Credits: SSTL



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The Work of the Office

The United Nations Programme on Space Applications
(1971)

UN-affiliated Regional Centres for Space Science and
Technology Education in Brazil/Mexico, India,
Morocco and Nigeria (1982)

United Nations Platform for Space-based Information for
Disaster Management and Emergency Response (UN-
SPIDER) (2006)



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UN-SPIDER: Mission and Mandate

On 14 December 2006 the United Nations General Assembly, established UN-SPIDER as a programme implemented by the United Nations Office for Outer Space Affairs (UNOOSA), with the following mission statement:

“Ensure that all countries and international and regional organizations have access to and develop the capacity to use all types of space-based information to support the full disaster management cycle.”

- Especially by being a gateway to space information for disaster management support;
- serving as a bridge to connect the disaster management and space communities; and
- being a facilitator of capacity-building and institutional strengthening (A/RES/61/110).

<http://www.un-spider.org>



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Space Technologies for Disaster Risk Management

Images from earth observing satellites help assess the damage caused by disasters and assess vulnerability to hazards.



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

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



The UN-SPIDER Programme

- UN-SPIDER Team
- Network of Regional Support Offices (RSOs) (10 + 6)
- National Focal Points (45)



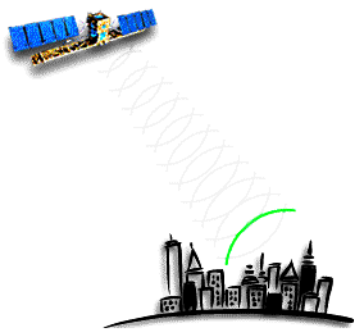
UN-SPIDER in Vienna



UN-SPIDER Beijing Office



UN-SPIDER Bonn Office



Network of Regional Support Offices





Knowledge Portal

A web portal for information, communication, and process support. A platform which supports knowledge management, capacity building, technical advisory support and support to emergency and humanitarian assistance. <http://www.un-spider.org>

The screenshot shows the UN-SPIDER Knowledge Portal website. At the top, there is a blue header with the United Nations logo on the left, the text "UNITED NATIONS | UNOOSA | UN-SPIDER" in the center, and "Contact Profile Sitemap" on the right. Below the header is a search bar with the text "Search..." and a magnifying glass icon. A navigation menu below the search bar contains buttons for "HOME", "SPACE APPLICATION", "ADVISORY SUPPORT", "KNOWLEDGE BASE", "NETWORK", and "ABOUT US". The main content area is divided into two columns. The left column is titled "IN FOCUS" and features three article teasers: "UN-SPIDER supports the Russian Federation's...", "Famine in the Horn of East Africa UN-SPIDER...", and "Crowdsourcing Mapping for Preparedness and...". The right column is titled "EVENTS" and has two tabs: "Upcoming" and "Calendar". Under the "Upcoming" tab, there are two event listings: "Second UN-SPIDER International Expert Meeting: Crowdsourcing..." on 16/11/2011 at the Palais des Nations, and "United Nations International Conference on Space-based..." from 22/11/2011 to 25/11/2011 at Zhongmin Plaza, 7, Baiguang Road, Xicheng District. A "more..." link is visible at the bottom right of the events section. The main content area also features a large image of a group of people in front of a building with a sign that reads "СИБИРСКИЙ ГОСУДАРСТВЕННЫЙ ГОРОДСКОЙ УНИВЕРСИТЕТ". Overlaid on this image is the text: "UN-SPIDER supports the Russian Federation's efforts to boost the use of space-based information... UN-SPIDER is committed to ensuring an increase in the support provided to all countries in..." and a "Read more" button.



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Technical Advisory Support (2010-2011)





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Support to Emergency Response Chile Earthquake 27 February 2010



Example Chile: response to earthquake on 27 February 2010

Earthquake hit 06:34 UTC time – UNOOSA activated the International Charter and other mechanisms at 13:23 UTC time in coordination with other UN agencies and CONAE (the Argentinean Space Agency). RapidEye covered the tsunami affected area on the same day. Imagery was sent to ONEMI through UN-SPIDER and was the basis of the initial impact assessment. UN-SPIDER carried out a technical advisory mission at the request of the Chilean Government.



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Ensuring the end-users benefit

“The only tools and information you will use and trust in a crisis are the ones you have been using already”





Sharing of Geospatial Data and Information

“Limited access to existing geospatial data and information is one of the main impediments to ensuring that countries are able to benefit from space-based information.”



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Take advantage of the crowd

“There is a need to take advantage of the crowd, the internet and the increasing volume of data being made available”





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THANK-YOU

