

Mainstreaming space technologies for effective disaster management



About UNOSAT

- UNOSAT is the Operational Satellite Applications Programme of UNITAR entirely dedicated to researching and applying solutions in geospatial information, satellite data/imagery analysis, and integrated systems (GIS, navigation, geopositioning)
- Launched in 2000 as a project, it has evolved into a mature UN service with global outreach supported by a network of partners worldwide
- UNOSAT means over 1000 maps/analyses since 2000, taskings in over 250 emergencies & conflicts; professional training; research & methodology





UNOSAT - AREAS OF OUTPUT

Humanitarian Aid and Relief Coordination

Crisis & Situational Mapping

Damage assessment

Human Security

Monitoring

Human Rights

Safety and Security

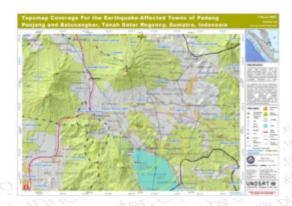
Territorial Planning and Monitoring

Capacity Development & Technical Assistance

In-country project development







USER SYSTEMS

Humanitarian Aid and Relief Coordination

- . Crisis & Situational Mapping
- Damage assessment

Human Security

Monitoring

Human Rights

Safety and Security

Territorial Planning and Monitoring

Capacity Development & Technical Assistance

Project development & Implementation

OCHA
UNICEF
UNHCR + SHELTER
UNDP + E. RECOVERY
WORLD BANK

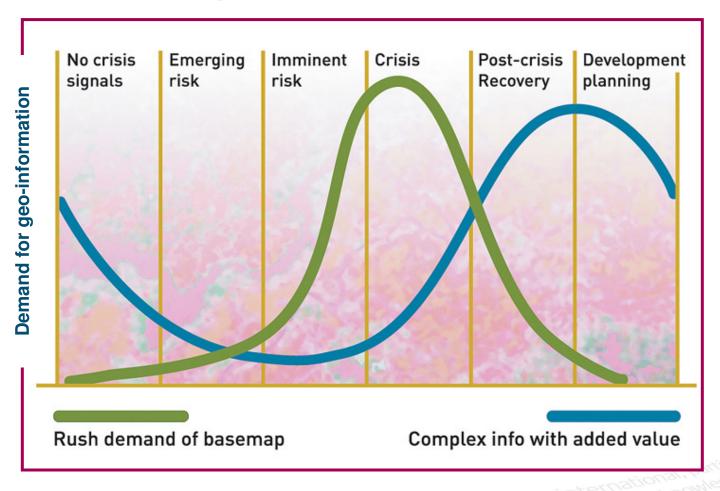
DPKO + MISSIONS
OHCHR + PANELS
UNHCR
UNDSS
UNDFS
UNDPA

UNDP/BCPR UN-HABITAT IOM NTL GVTS

Disaster management cycle



UNOSAT integrated response model for humanitarian relief and development



ADPC

- . Capacity development
- Regional
- . National

ESCAP

Capacity development

Mapping

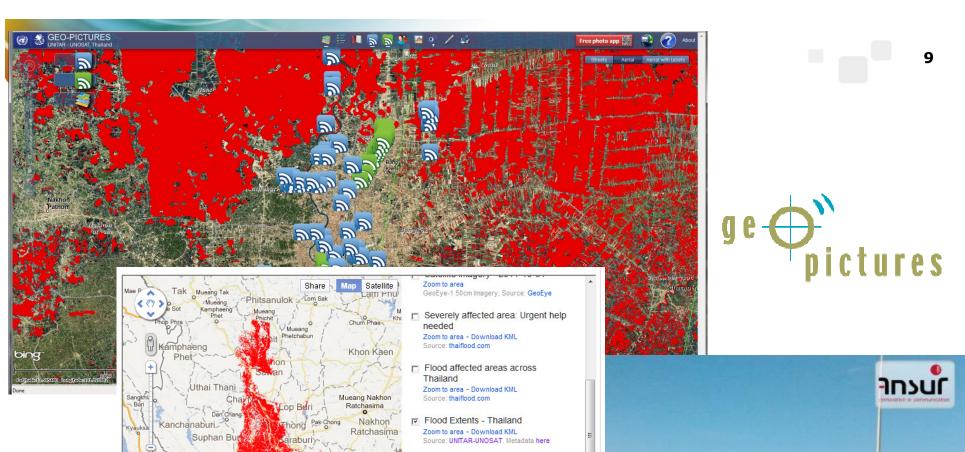
Data sharing

IGAD

Capacity Development & Technical Assistance

Data development and sharing





Thailand floods 2011

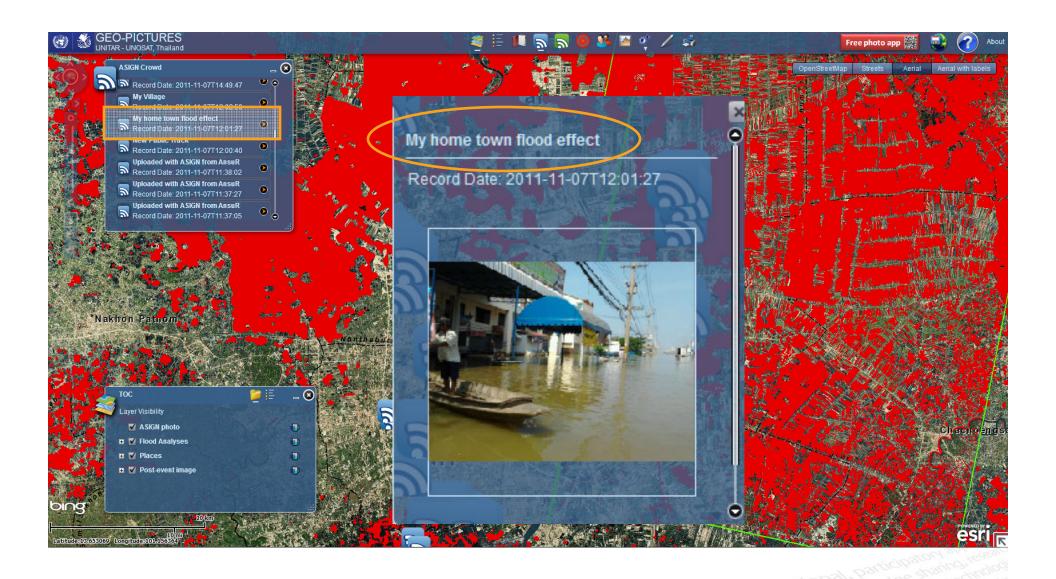
Sharing of flood extent vectors Crowd-sourced geo-photo display

Ratchaburi

Map data @2011 Google, Dapabo, Tele Atlas - Terms of tise

@ Google · Google.org Crisis Response Home · About this map





UNOSAT's suite of UAVs: SenseFly plane

Microdrones quadrocopter





UNOSAT UAV capacity: Successful deployment to Haiti









UNOSAT





UAV SURVEY OF GRANDE RAVINE, PORT AU PRINCE, HAITI



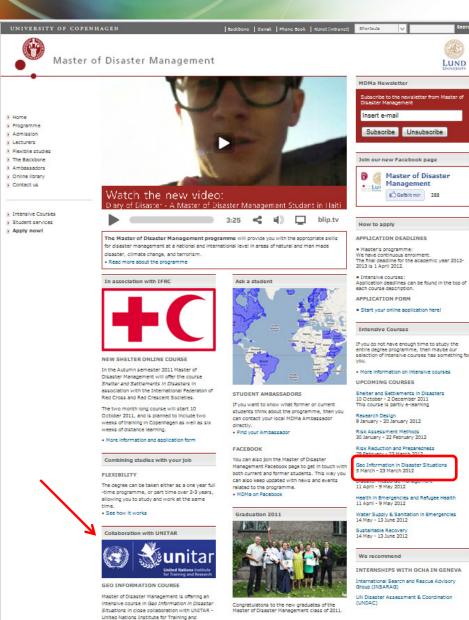


- Joint capacity development w. ADPC
 - As part of ADPC trainings in Bangkok
 - Train the trainers
 - In-country hands-on



Recent Trainings delivered By UNITAR-UNOSAT

LUND



The course is organised by UNOSAT (UNITAR's Operational Sattelite Applications Programme) and iss only open to a limited number of . More information on the course

The 7th International Training Course on **GIS for Disaster Risk Management**

17-28 October 2011, Bangkok, Thailand



The Asian Disaster Preparedness Center (ADPC)

Established in 1986, ADPC is a leading regional resource center dedicated to disaster risk reduction. ADPC works with governments, NGOs and communities of the Asia and Pacific regions to strengthen their capacities in disaster preparedness, mitigation and response through professional training, technical assistance, regional program management, country project demonstration, information sharing and research. (www.adpc.net)



The International Institute for Geo-Information Science and Earth Observation, University of Twente (ITC)

Founded in 1950 as a part of the University of Twente the Netherlands, ITC provides international postgrad ate education, research and project services in the fie of geo-information science and earth observation using remote sensing and GIS. Since 2005, ITC is an associate institution of the United Nations University (UNU). T main focus of UNU-ITC is to support networks Universities and training institutes from developing countries that are involved in training and research the use of geo-information science and earth observ tion for disaster risk management. (www.itc.nl)



The Asian Institute of Technology (AIT)

The Geoinformatics Center of the Asian Institute of Technology (AIT) in Thailand is a non-profit center for training and capacity building in Remote Sensing, GIS and GPS technologies established at AIT in 1995. The Center has under-taken a number of disaster and environment related projects in South and Southeast Asia, drawing participants from more than 25 countries within the Asia-Pacific region and to date more than 1.000 persons have been trained.



UNITAR'S OPERATIONAL SATELLITE APPLICATIONS PROGRAMME (UNITAR-UNOSAT)

UNOSAT is a technology-intensive program delivering imagery analysis and satellite solutions to relief and development organizations within and outside the UN system to help make a difference in critical areas such as humanitarian relief, human security, strategic territorial and development planning. UNOSAT develops applied research solutions keeping in sight the needs of the beneficiaries at the end of the process. UNOSAT's goal is to make satellite solutions and geographic information easily accessible to the UN family and to experts worldwide who work at reducing the impact of crises and disasters and help nations plan for sustainable development. (www.unitar.org/unosat)

For more information, please visit www.adpc.net/?GIS4DRM-7

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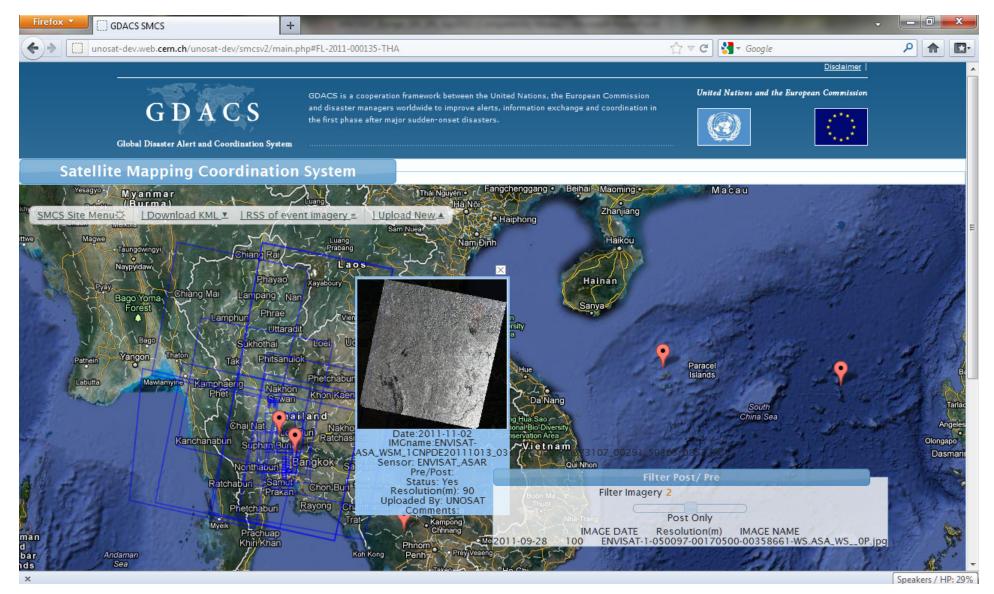
Asian Disaster Preparedness Center

979/66-70, 24th Floor SM Tower, Paholyothin Road, Samsen Nai, Phayathai, Bangkok, 10400 Thailand





UNOSAT-facilitated GDACS Satellite Mapping Coordination System. Operational and agreed tool by OCHA, EC, users, analysis centres



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