Unitar Online Catalogue

10th International Training Course on GIS for Disaster Risk Management (Module 2: Post-Disaster Impact and Damage Analysis)

Tipo:	Course
Ubicación:	Bangkok, Thailand
Fecha:	3 Nov 2014 to 14 Nov 2014
Duración:	10 Days
Área del programa:	Satellite Imagery and Analysis
Sitio web:	http://www.unitar.org/unosat
Precio:	0,00 US$
Correo Electrónico del Centro de Coordinación del Evento:	unosat@unitar.org
Número del Centro de Coordinación del evento:	0041 22 767 4020
Colaboración:	ADPC

ANTECEDENTES

When disasters strike, the first thing the international early response community needs is information: What has happened, where did it happen, what is the effect, what response is needed? Not only can satellite imagery taken immediately after an event like an earthquake or tropical cyclone show what has happened through

images of destroyed infrastructure or flood surge, but with their inherent geo-coding, one can tell immediately where the event took place and the apparent impact of the disaster. This is key information for an efficient planning and coordination of emergency response operations. The value of Geographic information systems (GIS) in emergency response arises directly from the benefits of obtaining, integrating, organizing, inquiring and analyzing geographic information and databases. This course introduces the application of GIS in emergency response mapping and damage assessment in disaster situations from the perspective of United Nations.

OBJETIVOS DEL EVENTO

The aim of the course is to provide training participants with concepts and GIS methodologies to perform satellite based rapid response mapping and damage assessment including the understanding of the benefits and limitations of using geo-spatial information technology in the immediate aftermath of a disaster.

OBJETIVOS DEL APRENDIZAJE

At the end of the course participants should be able to:

- Describe and utilize spatial data, GIS and remote sensing in disaster risk assessment and management.
- Utilize existing sources of historical disaster information and elements at risk data.
- Apply GIS/remote sensing in hazard, vulnerability and risk assessment.
- Employ risk information in emergency preparedness planning.
- Visualize hazard and risk information.
- Apply GIS/remote sensing to post-disaster damage assessment.

CONTENIDO Y ESTRUCTURA

This course is extended over 10 workdays structured around the following modules:

Module 1: Core/Basic Information (about disaster risk management, GIS and spatial information)

Module 2: Post-Disaster Impact and Damage Analysis (UNOSAT Module)

At the end of the UNOSAT module participants will be able to:

- Explain the role of Geo-information in the response phase of a disaster.
- Gain awareness of GIS methodologies related to the rapid mapping processing chain to support emergency response.
- Identify, access, search, collect, organize and analyze geospatial data for emergency response mapping.
- Apply basic GIS methodologies to perform impact analysis and preliminary damage assessment in the immediate aftermath of a disaster

Module 3: Pre-Disaster Risk Assessment

Module 4: Risk Information for Risk Reduction Planning

Module 5: Mini-Projects

The course is divided into 5 modules where UNOSAT shall be responsible for module 2 only. UNOSAT's module is structured into 4 sessions of 1.5 hours each with an estimated workload of approximately 16 hours spread over 3 days. It is considered that the length of the course well reflects its scope and is adequate to enable participants to achieve the learning objectives.

METODOLOGÍA

Drawing upon the rich repository of knowledge and experience in the application of GIS in disaster risk management of ADPC, AIT, ITC, UNITAR-UNOSAT, and other partner organizations, the course is primarily designed to promote the understanding of the importance of data and outputs of GIS processed application in the disaster management and disaster risk reduction works.

The course has a mixture of adult learning methodologies such as interactive lectures, discussion sessions and group exercises. A mini-project will additionally allow participants to practice GIS application in their own situation of selected hazard type and disaster management phase. Participants can bring their own dataset to the practice in the course, if they have any.

PÚBLICO OBJETIVO

The course is open to all participants who are working or will be working in the organizations where spatial information is used or considered to be used for the purpose of disaster risk management, disaster management, or disaster risk reduction. There is no prerequisite GIS knowledge for participant who is interested in this course.

The course welcome participants from all geographic areas, however the class size is limited to 30 persons. ADPC accepts nomination on a first come, first served basis provided the applicant meets the course requirement.

Click here to apply online.

Find more information regarding this event here.

INFORMACIÓN ADICIONAL

Language:

English

Institution:

This course is co-organized and facilitated by the Asian Disaster Preparedness Center (ADPC), the Asian Institute of Technology (AIT), the Faculty of Geo-Information Science and Earth Observation of the University of Twente, the Netherlands (ITC) and UNITAR/UNOSAT.

UNITAR Certificate:

Participants will be given a UN training participation certificate from UNITAR.

Expected Participants & Prerequisites:

Disaster management professionals working in governmental organizations who wish to strengthen their GIS skills in emergency response mapping. It is recomme nded that participants taking the course have a working knowledge of English including basic experience in GIS and Remote Sensing applications.

Software Required:

GIS lab exercises will be based on ESRI ArcGIS 10.2 with extensions (spatial analyst), Google Earth, Access to internet.

Enquiries:

For further information, please send your enquiries to tsua [at] dpc.net (tsua[at]dpc[dot]net)