



International Charter 'Space and Major Disasters'

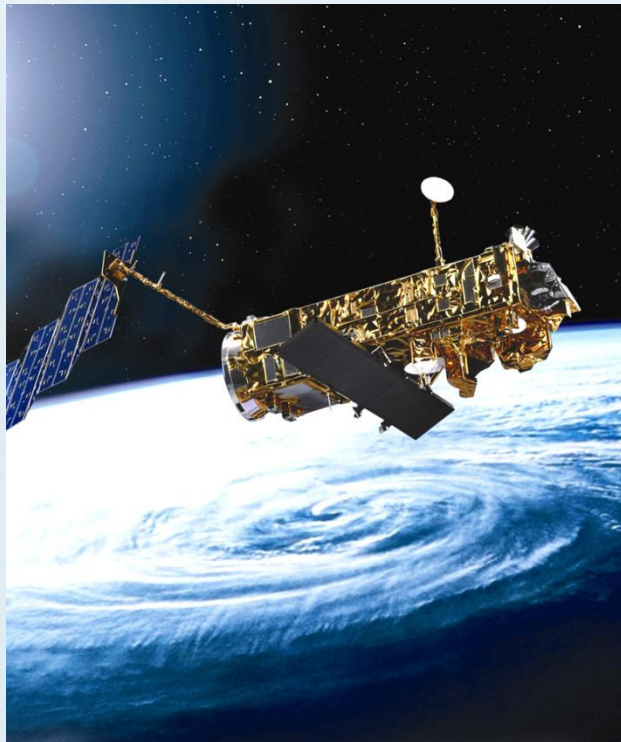
Toward Universal Access



An International agreement among participating Space Agencies to provide space-based data and information in support of relief efforts during emergencies caused by major disasters.



Bringing together new and efficient space-based technologies to support disaster management.



- Space agencies contribute
- Priority satellite tasking
 - Archive retrievals
 - Organisation of disaster map production



Natural events:

Earthquakes

Fires

Floods

Ice jams

Landslides

Tsunamis

Storms

Volcanic eruptions

Man-made events:

Oil spills

Industrial accidents

A major disaster is a large, often sudden, event with high impact in terms of lives and/or infrastructure & environment.

(slow-onset disasters, such as droughts, are not covered by the Charter)



History

Following UNISPACE III in Vienna in July 1999, the **Centre National d'Études Spatiales** (CNES) and **European Space Agency** (ESA) initiated the International Charter.



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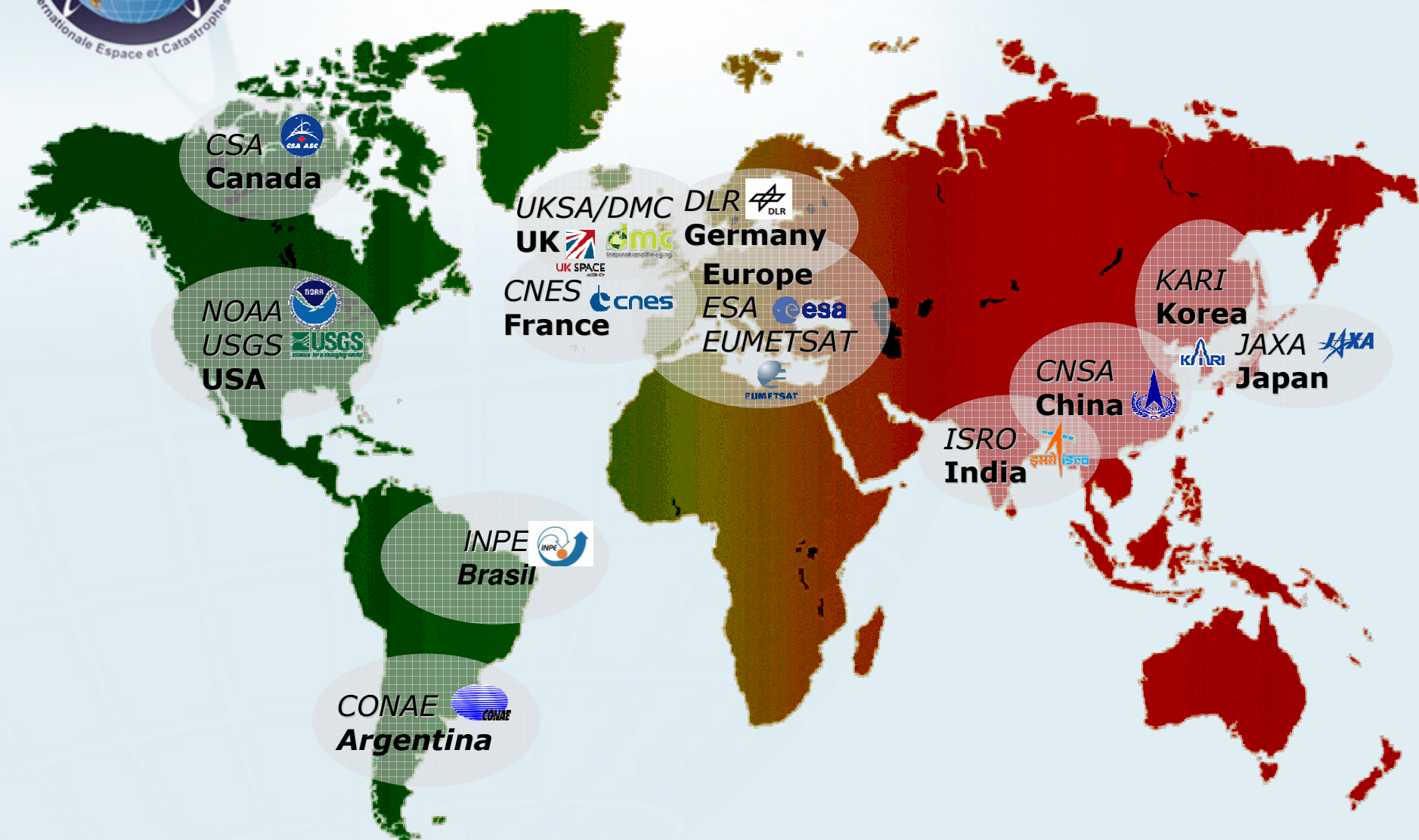
CSA signed the Charter on October 20, 2000.

Now composed of 14 members.

368 disasters covered to date in over 110+ countries worldwide.



Charter Members



The Charter virtual constellation



International Charter 'Space and Major Disasters'



Charter operational loop

**Authorised User
sends a request
for Charter
activation**

**Direct link to the
user/response
community who
will use the maps**



~3hrs

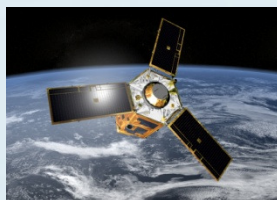
**24/7 operators
respond to
requests by
quickly tasking
satellites**



~6/8hrs



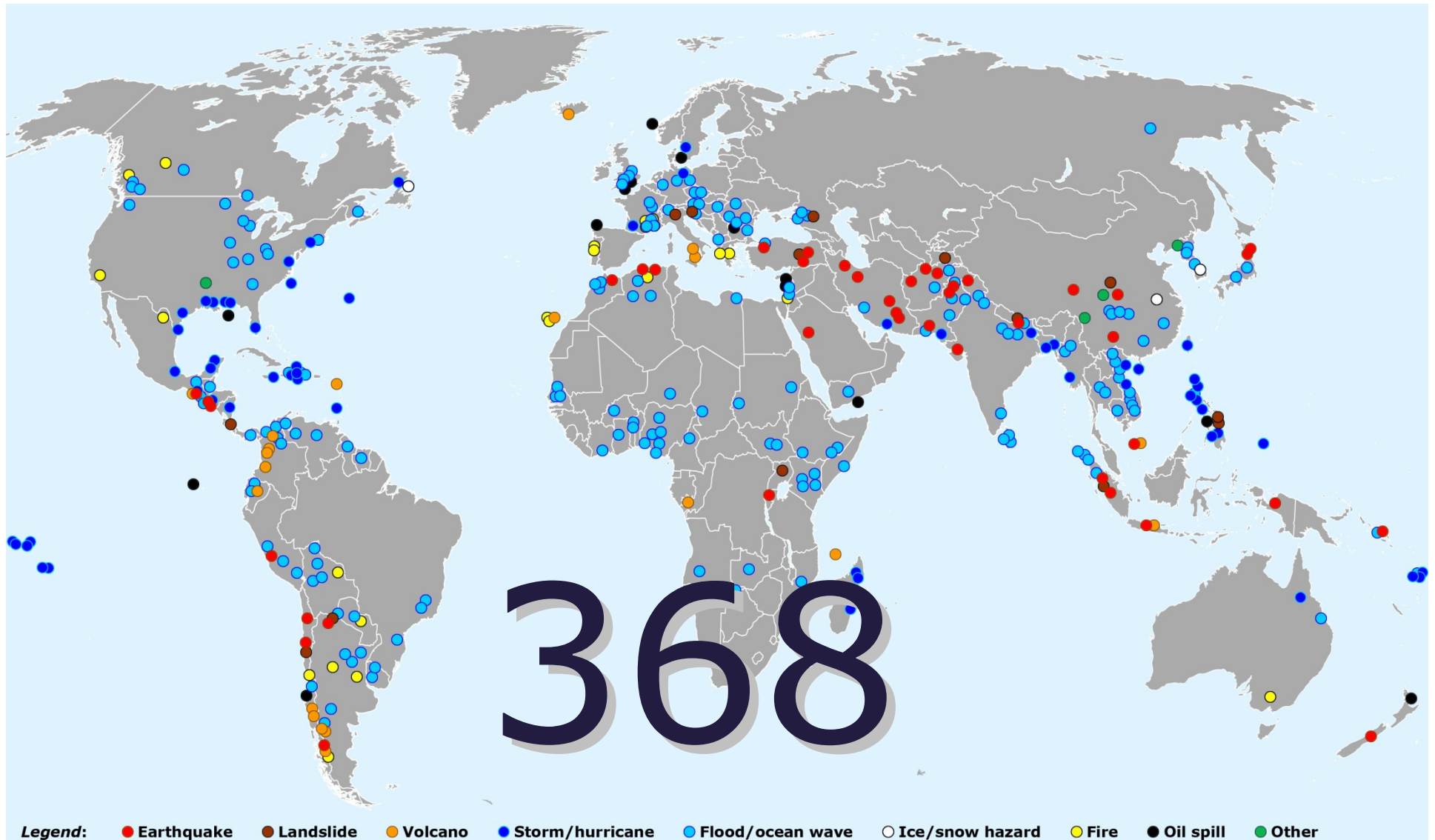
~24/48hrs



**Satellite
images
received and
turned into
useful maps**



Map of activations (2000-2013)



As of January 28, 2013



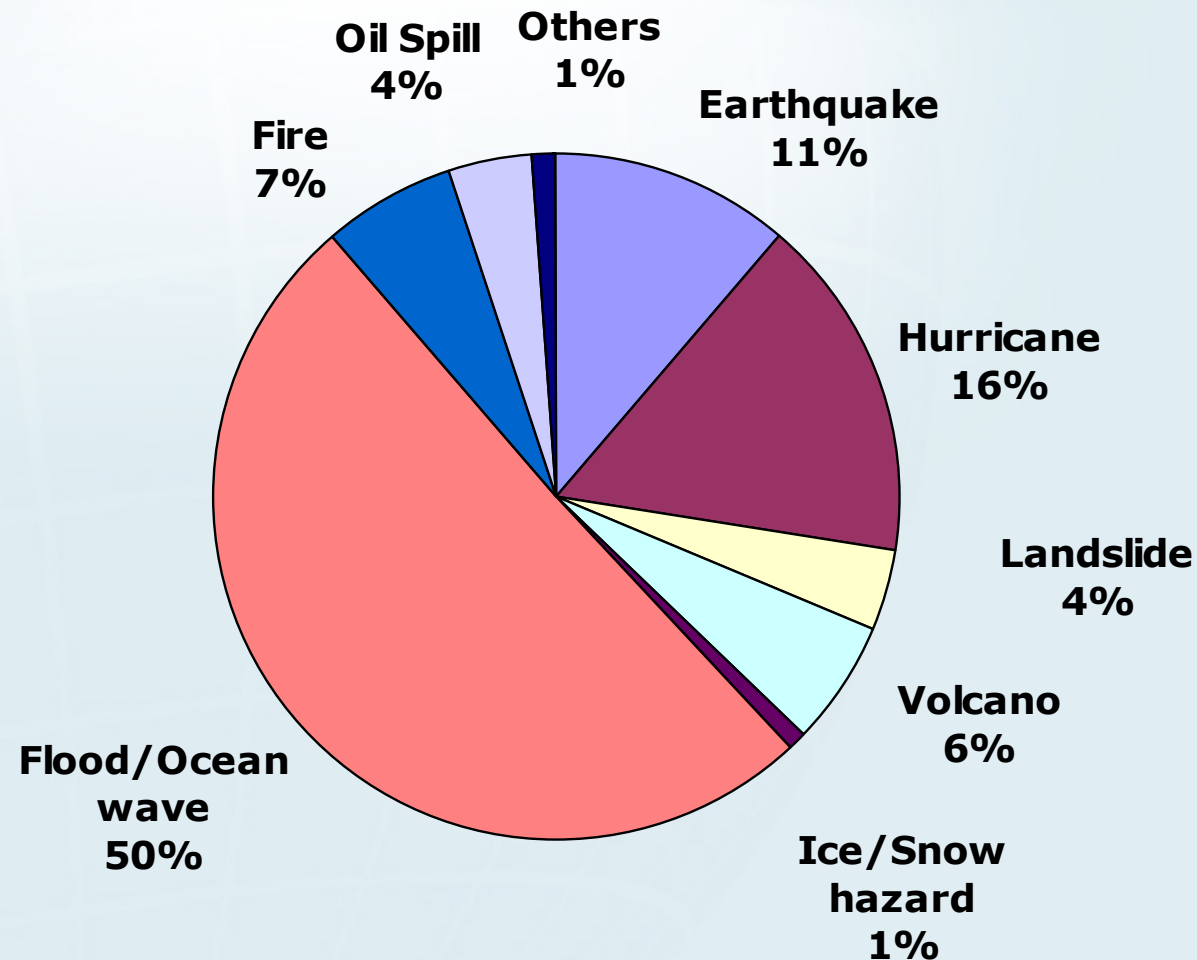
Number of activations

368 activations over 2000-2013





Activations by disaster type



For 368 activations



Some examples of recent activations





Mechanisms to activate the Charter

- Direct activation by an Authorised User
- Activation via an Authorised User on behalf of a user from another country without AU
- Activation via the UN for UN users
- Activation for Asia Pacific users via Sentinel Asia (Asian Disaster Reduction Centre)





Authorised Users are typically **disaster management authorities** from countries of Charter member agencies.



Universal Access

launched in September 2012

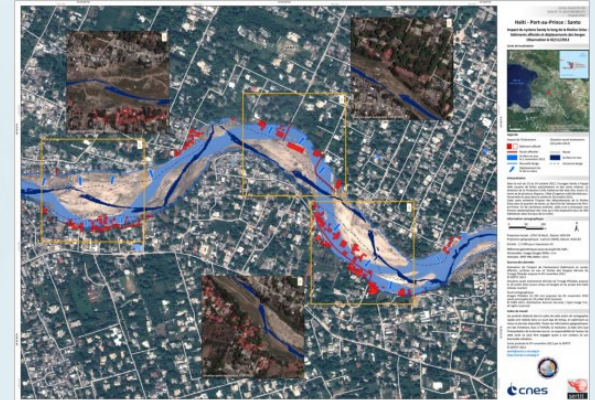
**Any national disaster
management authority can
apply to become a Charter
Authorised User**





Characteristics of the Authorised Users

- 1.be a **national disaster management authority** or its delegated agency in that country
- 2.have the **capacity to download and use maps**
- 3.be able to **submit and pursue an activation request in English**





Registration

A registration form is available for national authorities to express interest in becoming a Charter Authorised User.

1. The candidate fills in the questionnaire providing all required information.

2. The questionnaire – with an official cover letter from the organisation – must be sent to:

ExecutiveSecretariat@disasterscharter.org

3. The request is assessed by the Charter members





Charter Website: UA Documents

www.disasterscharter.org/activate



INTERNATIONAL CHARTER SPACE AND MAJOR DISASTERS

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Activating the Charter

There are several [mechanisms to activate the Charter](#). It is based on a pre-defined list of appointed users, known as 'Authorized Users' (AUs). Until now AUs are typically disaster management authorities, from countries of Charter member agencies, able to request Charter support for emergencies in their own country, or in a country with which they cooperate for disaster relief.

Since its inception, the Charter has demonstrated a strong commitment to expanding its number of users. Initiatives include collaboration with UNITAR/UNOSAT and UN OOSA, active in many countries and who can submit requests to support in-country UN relief agencies, and Sentinel Asia, a regional network for Earth observation-based Emergency Response in 32 countries.

Universal Access

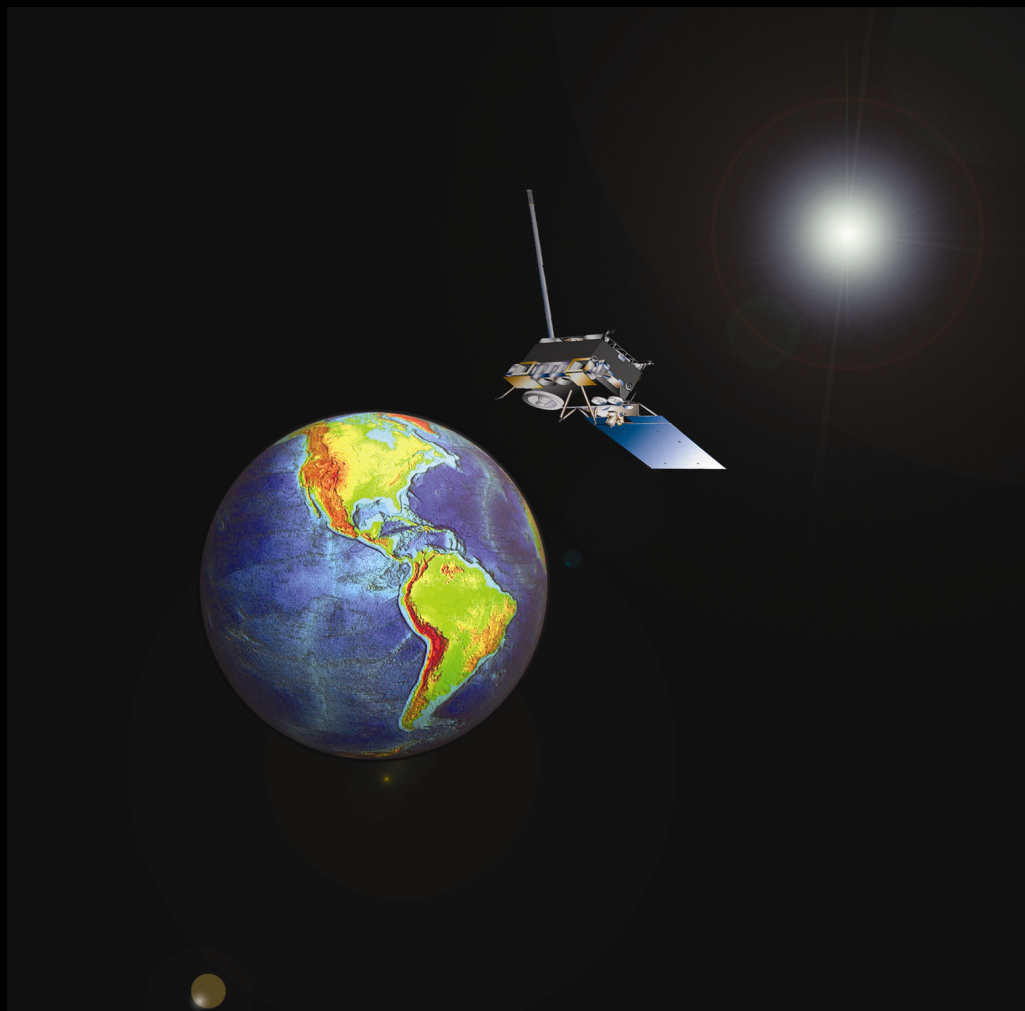
Building on a decade of success in making satellite data available for disaster response, the International Charter is now opening its doors even wider. The Charter Members have adopted the principle of Universal Access to further strengthen the Charter's contribution to disaster management worldwide. Any national disaster management authority will be able to submit requests to the Charter for emergency response. Proper procedures will have to be followed, but the affected country will not have to be a Charter member.

Universal Access benefits national disaster management authorities in countries beyond those of the Charter members, previously unable to make direct requests to the Charter.

A registration process is in place for national authorities interested in participating in the Charter as an "Authorized User". This process will validate the ability of national authorities to access and use Charter assets for disaster response in accordance with Charter operational procedures. Steps and applicable conditions are explained in the Charter's [Universal Access Information Brochure](#) available together with its [Registration form](#).



The Charter is an important step forward in providing fast and easy access to space resources for disaster management and relief organisations in response to major disasters



Emergency enquiries from users requiring direct access to Charter resources should be addressed to:

ExecutiveSecretariat@disasterscharter.org

General requests for information should be addressed to:

webmaster@disasterscharter.org



Come and meet us

Tomorrow

from 13:00 to 16:00

Room MOE-19



Jens DANZEGLOCKE



Catherine PROY



Steven HOSFORD

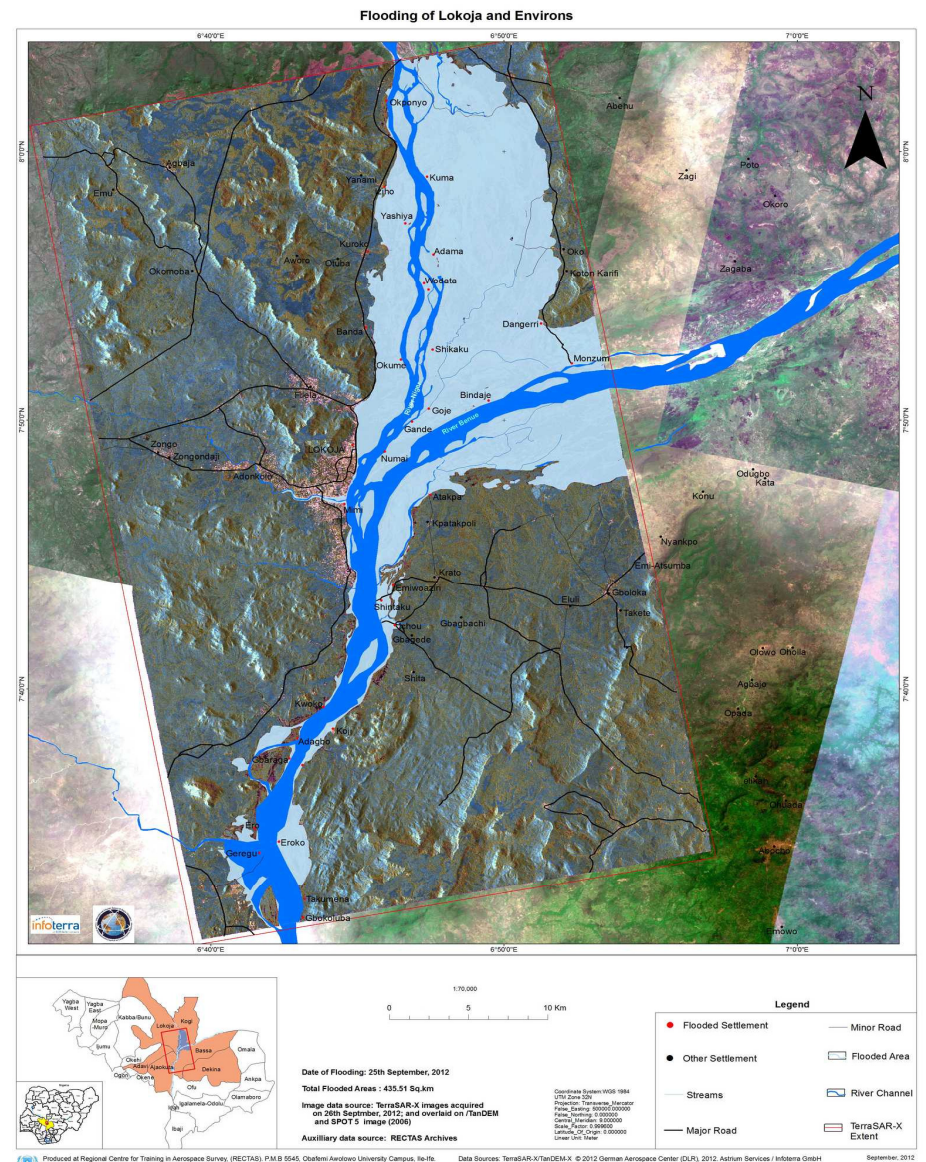




Floods, Nigeria

September 2012

- Activated 26th September by NEMA (National Emergency Management Agency)
- First Charter images delivered on 27th September
- Project manager and maps produced by RECTAS (Regional Centre for Training in Aerospace Surveys)
- Data from SPOT, Radarsat, DMC, TerraSAR, KOMPSAT-2, ENVISAT, CBERS





Typhoon Bopha, Philippines

December 2012

- Activated 5th Dec
by ADRC and UNO
- Project managers:
- First Charter image
delivered on 7th
December
- Maps produced by
 - UNOSAT
 - SERTIT
 - AIT
 - Manila Observato

Baganga - After / Après

Destroyed buildings
Bâtiments détruits

Tree windfall
Chablis

Image Pléiades 1A - 10/12/2012

© CNES, distribution Astrum Services / Spot Image SA, analysis SERTIT 20 12





Hurricane Sandy, Haïti

October 2012

- Activation 29th October by UNOSAT for UNOCHA
- Project manager: CNES
- Data from Pléiades, Radarsat, SPOT, Worldview, DMC
- Maps produced by:
 - UNOSAT
 - SERTIT

