



INTERNATIONAL CHARTER SPACE & MAJOR DISASTERS

The International Charter "Space and Major Disasters"

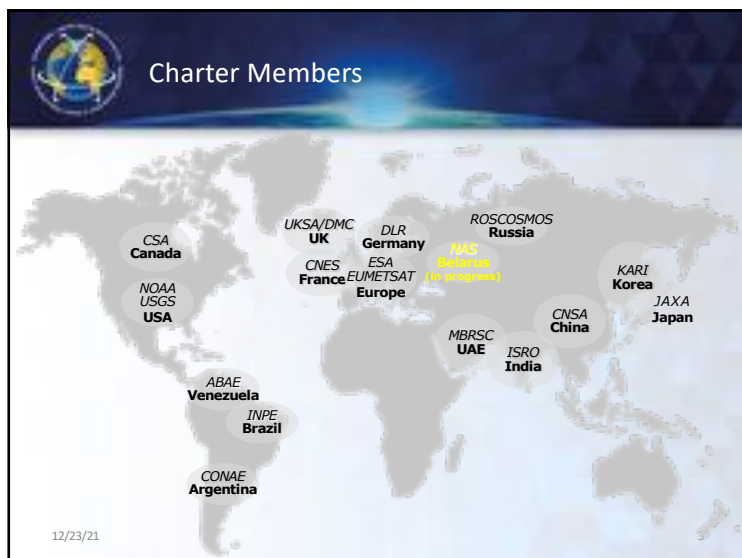



Purpose






An international agreement by Satellite Operators to provide priority access to satellite data in the event of Major Disasters.

*Founded by Space Agencies in 1999 following UNISPACE III.
Declared operational November 13, 2000.*

- Disaster response
- Multi-satellite - Free Data - Priority & fast access
- Satellite Tasking and Archive data
- Data processing to pre-determined level

Charter Satellites

	ABAE VRSS-1, VRSS-2
	CNES PLEIADES, SPOT
	CNSA CBERS-4, GF-1, GF-2, GF-3, GF-4, FY-3C, JILIN-1, OVS-1, OHS-2, Beijing-2
	CONAE SAOCOM-1A
	CSA RCM-1, RCM-2, RCM-3
	DLR TerraSAR-X/TanDEM-X
	DMC UK-DMC2, Alsat-B
	ESA Sentinel-1, Sentinel-2
	EUMETSAT Meteosat, Metop
	ISRO Cartosat-2, Resourcesat-2, Resourcesat-2A
	INPE CBERS-4, CBERS-4A
	JAXA ALOS-2, KIBO HDTV-EF
	KARI KOMPSAT-2, KOMPSAT-3, KOMPSAT-3A, KOMPSAT-5
	NOAA POES, SUOMI-NPP, GOES
	ROSCOSMOS RESURS-DK, METEOR-M, KANOPUS-V, KANOPUS-V-IK, RESURS-P
	UAESA DubaiSat-2, Khalifasat
	USGS Landsat-7, Landsat-8, WorldView, Geoeye
	Data Providers PLANET, ICEYE, SATELLOGIC, BlackSky

Disasters Types Supported

Designed to address requests concerning major disasters caused by:

<p>Natural events</p> <ul style="list-style-type: none"> Earthquakes Fires Floods Ice jams Landslides Tsunamis Ocean storms Volcanic eruptions 	<p>Man-made events</p> <ul style="list-style-type: none"> Oil spills Industrial accidents
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Authorized Users

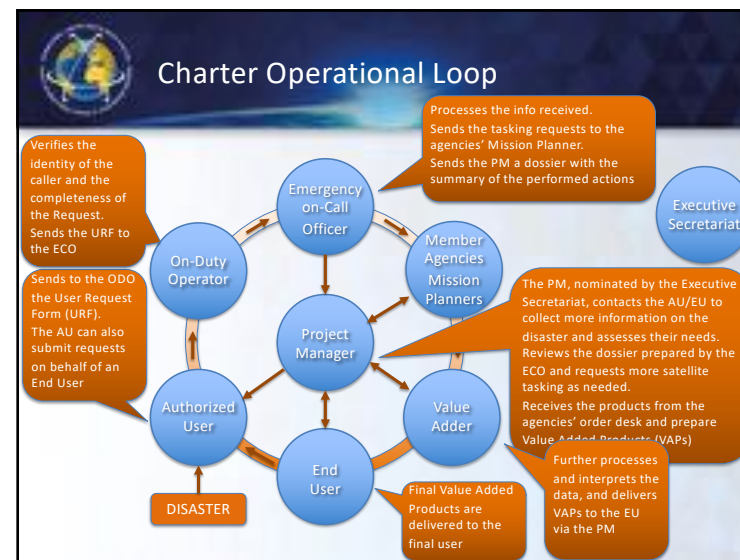
1. Must be a **national disaster management authority** or its delegated agency in that country
2. Must have the **capacity to download and use maps**
3. Must be able to **submit and pursue an activation request in English**



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Mechanisms to Activate the Charter

- **Direct:** The bodies authorized to directly request the Charter to be activated for a disaster occurring in their country are the 'Authorized Users' (AUs). Typically civil protection agencies, governmental relief organizations, or other authorities with a mandate related to disaster management.
- **Via an Authorized User on behalf of a user from another country** without AU: Authorized Users can request support for a disaster in another country with which they cooperate for relief purposes.
- **Via the UN for UN users:** The Charter has an agreement with UN OOSA (Vienna) and UNITAR/UNOSAT (Geneva) to provide support to UN agencies. UN OOSA and UNITAR/UNOSAT may submit requests on behalf of users from the United Nations.
- **Asia Pacific users via Sentinel Asia:** Sentinel Asia is a regional collaboration for satellite based emergency response in Asia Pacific. The Asian Disaster Reduction Centre (*Since 2009*) can submit activation requests on behalf of Sentinel Asia's national users.



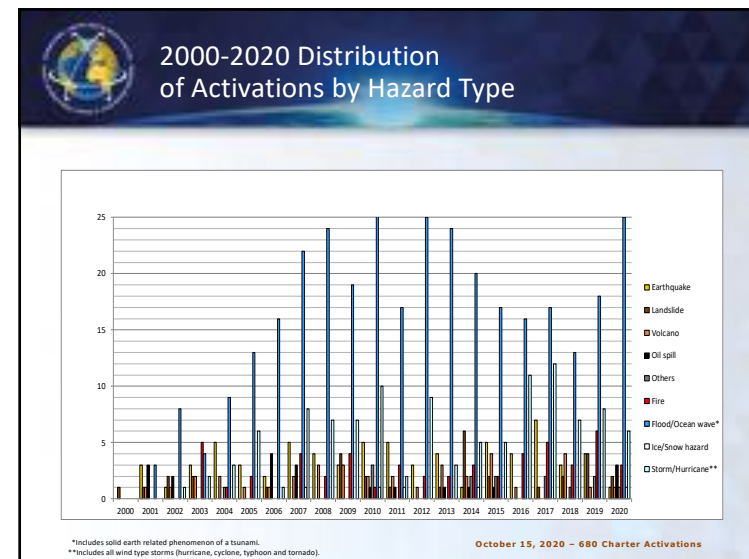
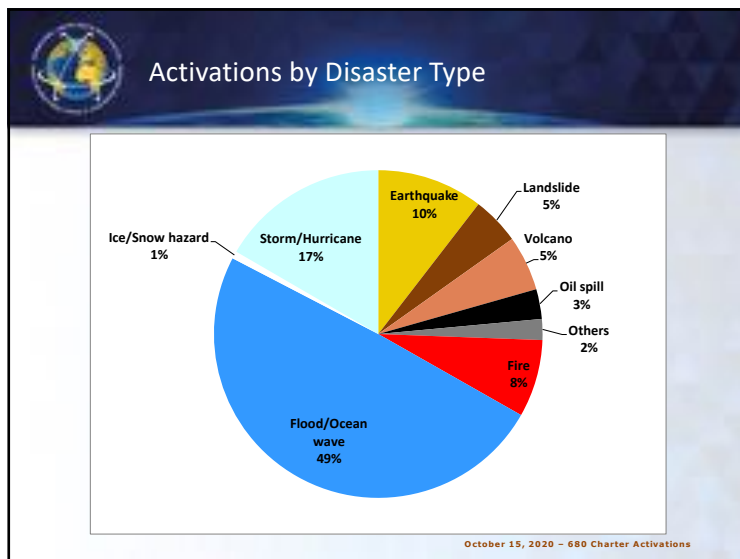
Charter Activations (by type)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Sub-totals	
Solid Earth	Earthquake	3	1	3	5	3	2	5	4	3	5	5	3	4	1	5	4	7	3	4	1	71	
	Landslide	1	1	2	2		1			4	2	1		1	6	2		1	2	4	2	32	
	Volcano		1	1	2	2	1	1	2	3	3	2	2	1	3	2	4	1		4	1	1	37
Technological	Oil spill		3	2				4	3			1	1		1	1						3	20
	Others					1						3			2	2		2	1	2	1	14	34
Weather / Atmospheric	Fire				5	1	2		4	2	4	1	3	2	2	3	2	4	5	3	6	3	52
	Flood/Ocean wave*	3	8	4	9	13	16	22	24	19	26	17	25	24	20	17	16	17	13	18	25	336	
	Ice/Snow hazard							1		1	1				1							5	
	Storm/Hurricane**		1	2	3	6	1	8	7	7	10	2	9	3	5	5	11	12	7	8	6	113	
Total / year	1	11	15	18	21	25	25	45	40	40	51	32	40	38	41	38	36	44	33	43	43	680	

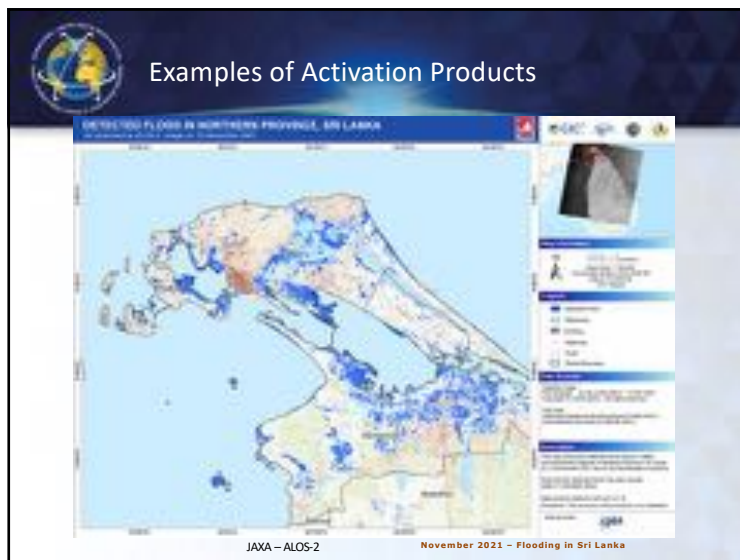
TOTAL 680

*Includes solid earth related phenomenon of a tsunami.
**Includes all wind type storms (hurricane, cyclone, typhoon and tornado).

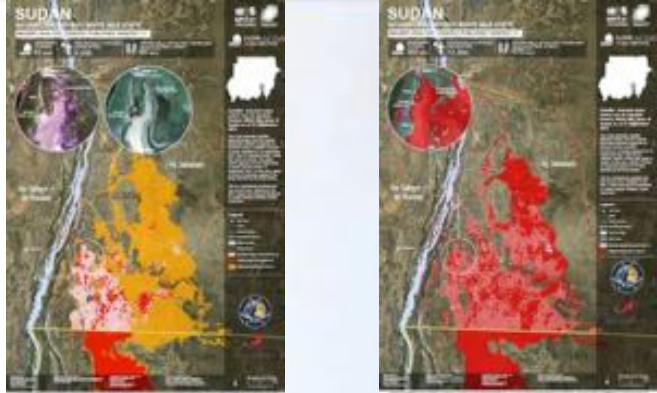
October 15, 2020 - 680 Charter Activations







Examples of Activation Products



ROSCOSMOS – Kanopus-V September 2021 – Flood in Sudan

Examples of Activation Products



INPE – CBERS-4 June 2021 – Oil Spill in Sri Lanka


Examples of Activation Products



DLR – TerraSAR-X May 2021 – Volcano in Dem. Rep. Congo

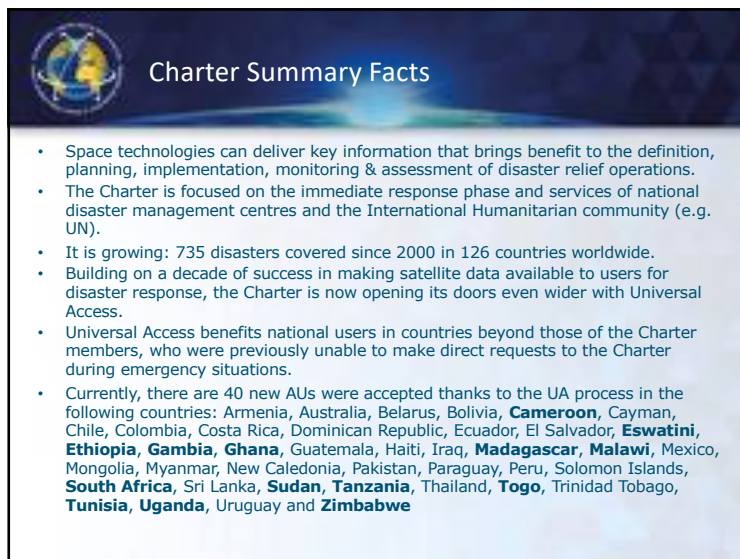
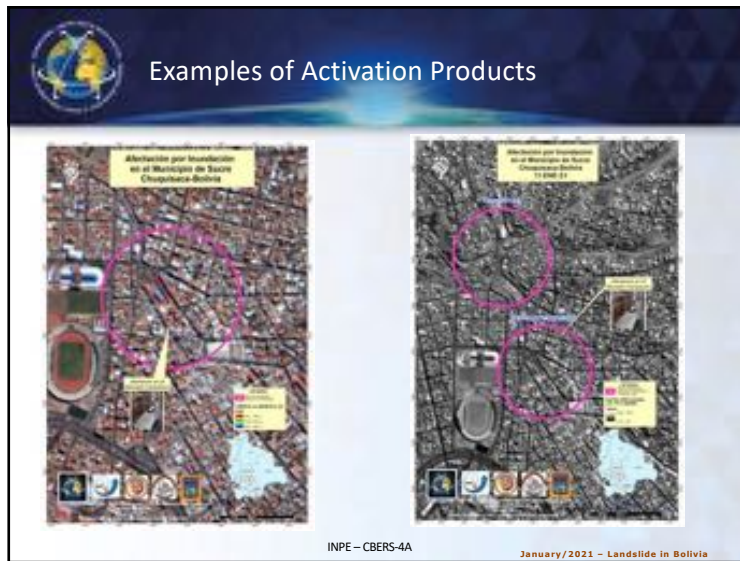
ESA – Sentinel-1
DLR – TerraSAR-X

Examples of Activation Products



USGS – WORLDVIEW-2 January/February 2021 – Landslide and Flood in Eswatini

CNES – Pleiades-1B





Universal Access
Already 40 countries since 2012



In Africa: **Cameroon, Eswatini, Ethiopia, Gambia, Ghana, Madagascar, Malawi, South Africa, Sudan, Tanzania, Togo, Tunisia, Uganda and Zimbabwe**



Become an Authorised User

A registration form* (in English, French and Spanish) is available for national authorities to express interest in becoming a Charter Authorized 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.




*The form may be downloaded together with the **Universal Access Information brochure** from the Charter website:
www.disasterscharter.org/web/guest/activating-the-charter
or www.disasterscharter.org/web/guest/home



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www.disasterscharter.org

Emergency enquiries from users requiring direct access to Charter resources should be addressed to:	General requests for information should be addressed to
ExecutiveSecretariat@disasterscharter.org	webmaster@disasterscharter.org

