

# **International Charter : *Space and Major Disasters***

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[www.disasterscharter.org](http://www.disasterscharter.org)

# International Charter: Space and Major Disasters



## Free and Fast Satellite Imagery for Emergency Response

**Global humanitarian effort** (17 Space Agencies, All Major Commercial Operators)

- Priority Access Satellite Imagery
- Disaster response
- Multi-satellite - Free Data
- Tasked and Archive data
- Data processing to pre-determined level

### UK Authorised Users

- Civil Contingencies Secretariat (CCS)
- DFID

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



# EC Copernicus EMS

## Mapping for Disaster Management

### Rapid Mapping

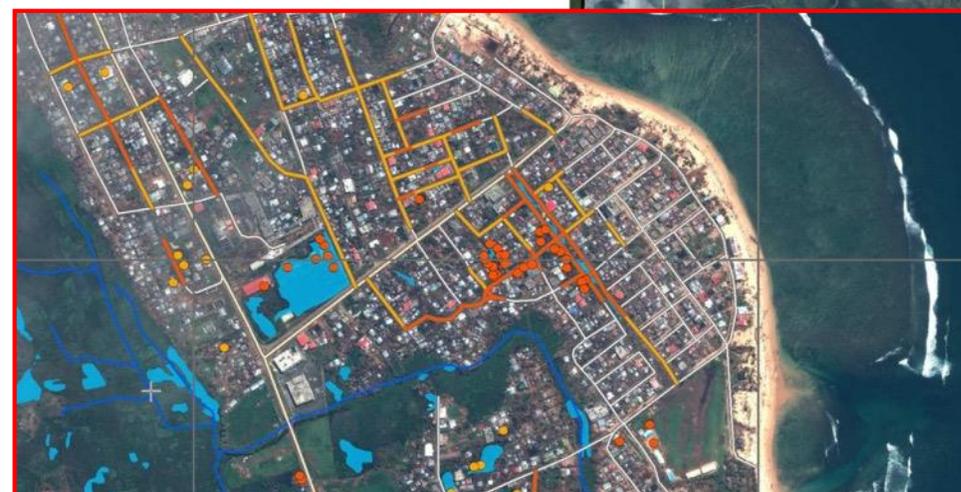
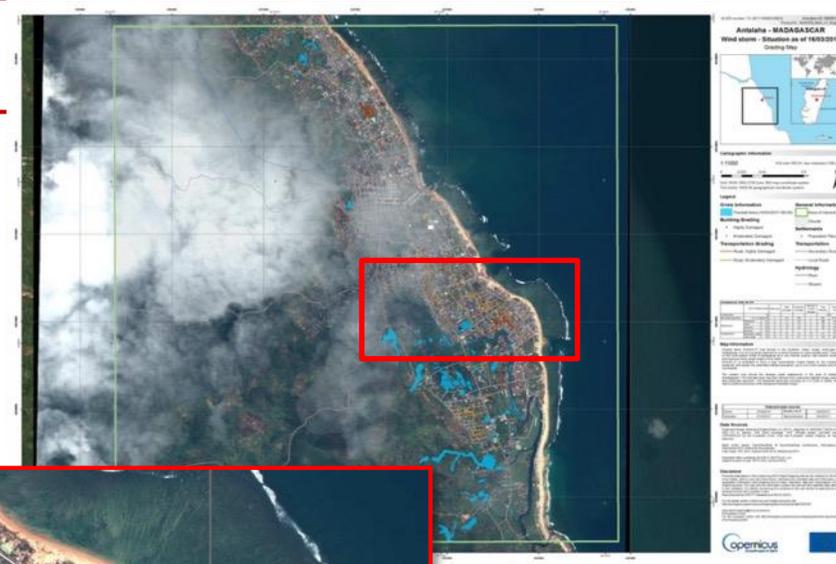
- Reference maps
- Delineation maps
- Grading maps

### Risk & Recovery Mapping

- Pre-disaster situation maps
- Post-disaster situation maps

### Early Warning

- Fire (also fire monitoring)
- Floods



**Crisis Information**

■ Flooded Area (16/03/2017 08:59)

**Building Grading**

- Highly Damaged
- Moderately Damaged

**Transportation Grading**

- Road, Highly Damaged
- Road, Moderately Damaged

Consequences within the AOI							
	Unit of measurement	Destroyed	Highly damaged	Moderately damaged	Negligible to slight damage	Total affected	Total in AOI
Flooded area	ha					28.8	
Estimated population	No. of inhabitants	0	513	369	0	882	53160
Settlements	Residential	No. 0	171	123	0	294	N/A
	Other	No. 0	16	13	0	29	N/A
	Industrial	No. 0	13	26	0	39	N/A
	Religious	No. 0	0	1	0	1	N/A
Transportation	Secondary roads	km 0.0	0.0	0.0	0.0	0.0	15.1
	Local roads	km 0.0	3.3	6.7	0.0	10.0	64.1

## CEOS Working Group: Disasters

### CEOS – 61 Agencies operating 172 satellites

#### Objectives:

- Support the efforts of Disaster Risk Management authorities in protecting lives and safeguarding property by means of satellite-based EO and science-based analyses
- Foster increased use of EO in support of Disaster Risk Management
- Support the implementation of the UNDRR Sendai Framework for Disaster Risk Reduction, in particular contribute to its Priority One, “Understanding Risk”
- Raise the awareness of politicians, decision-makers, and major stakeholders of the benefits of using satellite EO in all phases of Disaster Risk Management

#### Data supporting

- Geohazards lab/supersites
- Volcanoes Pilot
- Recovery Observatory
- Landslides pilot
- Seismic Hazards Pilot

#### Upcoming

- Global wildfire
- Coastal



## Further Information

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***Web: [disasterscharter.org](http://disasterscharter.org)***

***Web: [emergency.copernicus.eu](http://emergency.copernicus.eu)***

***Web: [ceos.org/ourwork/workinggroups/disasters/](http://ceos.org/ourwork/workinggroups/disasters/)***

