



International Charter Space and Major Disasters

Sentinel Asia and the Disasters Charter

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“The Charter”

‘International Charter “Space and Major Disasters” ‘ is an international agreement among Space Agencies to support with space-based data and information relief efforts in the event of emergencies caused by major disasters.

- **Disaster response**
- **Multi-satellite data acquisition planning**
 - Fast data turn-around – priority acquisition
- **Archive retrievals and spacecraft tasking**
- **Data processing at pre-determined level**
- **Space Agency contribution in image/data**
- **Space Agency initiative for value-added-data fusion**



Disasters Types Supported

The International Charter executes priority tasking of different EO missions in a rapid fashion; it is designed to address requests concerning major disasters caused by:

Natural events

- Earthquakes
- Fires
- Floods
- Ice jams
- Landslides
- Tsunamis
- Ocean storms
- Volcanic eruptions

Man-made events

- Oil spills
- Industrial accidents

Sometimes foreseen request, such as approaching storms, is acceptable.





Sentinel Asia and the Charter

Sentinel Asia has close relation with the Charter, through ADRC as Charter's Cooperating Body (CB) and CNSA, ISRO, JAXA, and KARI as the Charter member agency.

The relations between Sentinel Asia and the Charter is defined in "Interface Control Document" (ICD) between the two entities, signed by the Charter, JAXA, and ADRC.



Charter Space Assets

Member	Space Resources
ESA	Envisat, Sentinel-1A / B, Sentinel-2A, Proba-V
CNES	SPOT, Pléiades
CSA	RADARSAT
ISRO	IRS
NOAA	POES, GOES
CONAE	SAC-C
JAXA	ALOS-2
USGS	Landsat, Quickbird (Digital Globe), GeoEye-1 (GeoEye)
UKSA & DMCii	UK-DMC ALSAT-1 (Algeria), NigeriaSat (Nigeria), BILSAT-1, (Turkey)
CNSA	FY, SJ, ZY satellite series
DLR	TerraSAR-X, TanDEM-X
KARI	KOMPSAT-2, KOMPSAT-3, KOMPSAT-5
INPE	CBERS
EUMETSAT	Meteosat and Metop satellite series
Roscosmos	RESURS-DK1, RESURS-P, METEOR-M №1, KANOPUS-V
ABAE	VRSS-1



Number of Activations

Activations in 2016

Sentinel Asia: 37, of which 8 activations were escalated to the Charter

Charter: 36




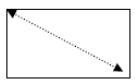
What is “escalation”

SA members can request “Charter Activation” along with SA EOR.

SA member → ADRC → Charter request



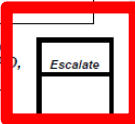
How to request “escalation”

SENTINEL ASIA EMERGENCY OBSERVATION REQUEST (EOR) FORM	
Your name and organization	
Your name	
Your organization	Membership <input type="checkbox"/> JPT member <input type="checkbox"/> ADRC member
Your phone	
Your cellular phone	
Your fax	
Your E-mail	
Other E-mail(s) for notification	
Disaster type	
<input type="checkbox"/> Flood	<input type="checkbox"/> Landslide <input type="checkbox"/> Storm <input type="checkbox"/> Fires
<input type="checkbox"/> Volcano	<input type="checkbox"/> Earthquake <input type="checkbox"/> Ice hazard <input type="checkbox"/> Tsunami
<input type="checkbox"/> Other :	
Place of occurrence	
Country	
Date of occurrence	
Date and time (UTC)	
Request area	
Name of a place	
Please select one	<input type="checkbox"/> Circular zone  Coordinates of center point Latitude : ° ' " N Longitude : ° ' " E Radius : km
	<input type="checkbox"/> Rectangular zone  Coordinates of corners Lat. : ° ' " N Lon. : ° ' " E Lat. : ° ' " N Lon. : ° ' " E
Details, news source	

Based on the SA analysis of the event, this Emergency Observation Request (EOR) may escalate to International Charter 'Space and Major Disasters'. If the escalation is requested specifically by an EOR, please check the box.

Please fill the form and send it to ADRC
 +81-78-262-5546 (Fax) or srequest@adrc.asia (E-mail)

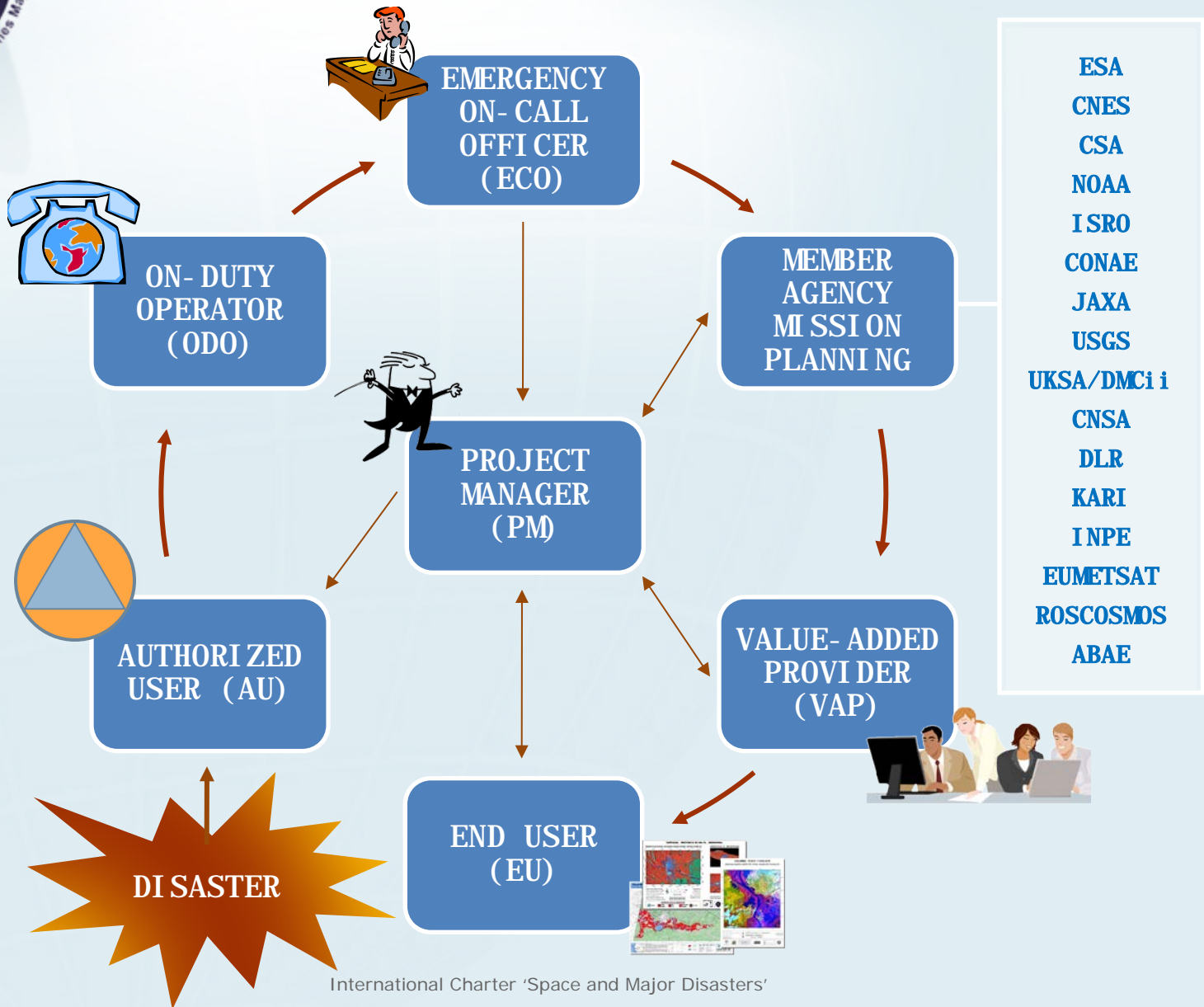
Request ID
 (To be filled by ADRC)



Check when the Charter activation is necessary.



Charter Operation



- ESA
- CNES
- CSA
- NOAA
- ISRO
- CONAE
- JAXA
- USGS
- UKSA/DMCi i
- CNSA
- DLR
- KARI
- INPE
- EUMETSAT
- ROSCOSMOS
- ABAE



What is “PM”?

The PM receives the Dossier on the disaster from the ECO.

He/She interacts with Data Suppliers (Space Agencies) for where to observe, what kind of data is needed, etc.

Once nominated, the PM coordinates the Charter activation.

He/She also interacts with the AU/End User on all the data and information requirements and with other parties for any required delivery of value-added products and information



Who is “PM”?

The PM harmonizes almost all the activities concerning specific activation.

He/She is nominated by the executive secretariat of the Charter from the member agencies, related disaster management organizations, or United Nation Cooperating Body (UNOSAT, etc.).

PM has the “Authority” and “Responsibility”.



Want to train PM in your country?

- JAXA organizes PM training twice a year.
JAXA welcomes volunteer to host PM training.