



# EOR and Emergency Observation Response Procedure

5th Joint Project Team Meeting for Sentinel Asia STEP3 (JPTM2018)

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Asian Disaster Reduction Center (ADRC)

# Purpose of EOR

(Depends on Procedure of Emergency Observation Request)



1. EOR is to appropriately and efficiently communicate the nature, timing and location of a disaster event, to allow an assessment of how the Sentinel Asia framework can best support in terms of disaster assessment and response planning, and to activate supporting agencies as required.
2. It represents an appeal for assistance from the disaster-affected country and is the fundamental instrument around which the Sentinel Asia framework is organised and executed.

# Our role in Sentinel Asia





# EOR procedures

- The default method for the initiation of an EOR for Request Organization(RO) is to complete the online form at:

<https://sentinel.tksc.jaxa.jp/>

The screenshot shows the Sentinel Asia website interface. At the top left is the "Sentinel Asia" logo. To the right, there are input fields for "UserID" (containing "adrc0001") and "password" (containing "\*\*\*\*\*"). Below the header is a navigation menu with links: HOME, Announce, About Sentinel Asia, JPT Member, FAQ, Contact US, Links, and Site Policy. On the left side, there is a "WEB GIS" menu with items: Emergency Observation, Wildfire Monitoring, Flood Monitoring, MTSAT Imagery, Capacity Building, and Library. The main content area is titled "Document and Archives" and contains three sections: 1. "Emergency Observation Request" with a link to "Request form" dated [28 Oct 2015]. 2. "Request for proposal concerning utilization of Regional Server / Client Terminal using WINDS in Sentinel Asia Step2 system" with links to "Request for Proposal" [05 Aug 2009] and "Application form" [05 Aug 2009]. 3. "Sentinel Asia Step3" with links to "Terms of Reference" [29 Jul 2016] and "Implementation Plan" [11 Apr 2013]. A red box highlights the "Emergency Observation Request" section, and another red box highlights the "Library" menu item.



# Current EOR FORM

**SENTINEL ASIA**  
EMERGENCY OBSERVATION REQUEST (EOR) FORM (1/2)

Requester (your name and organization)

Your name: \_\_\_\_\_

Your organization: \_\_\_\_\_  
Membership:  JPT member  ADRC member

Your phone: \_\_\_\_\_

Your cellular phone: \_\_\_\_\_

Your fax: \_\_\_\_\_

Your E-mail: \_\_\_\_\_

Other E-mail(s) for notification: \_\_\_\_\_

**Contact Person**  
※ Fill in below in case differ

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Phone: \_\_\_\_\_

Cellular phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Other E-mail(s) for notification: \_\_\_\_\_

**Disaster Management**  
ADRC is the first point of contact in the Sentinel Asia EO Management Organizations (DMOs) is quite essential to judges the Sentinel Asia framework is suitable to assist, contact with DMOs. Please provide following information

Organization Name: \_\_\_\_\_

E-mail: \_\_\_\_\_

Other relevant information: \_\_\_\_\_

**Planned end-user of the information**  
Please provide us information, to the best of your know (Management Organization), agency, or community will use questions to concerned organization, if needed...

The information/image shall be used only for  
Please state your role in the organization during

The information will be provided to other relevant  
Please fill in the name of the organization( )

**Purpose of the information**  
How does your organization intend

Emergency Response ( Situation confirm activity,  Others( )

-----

Damage and Loss Assessment(DALA)/Post Disaster  
 Recovery Planning

Detection of an advance warning of hazardous  
 Others( )

**Type of Disaster**

Flood  Landslide  Storm  
 Volcano  Earthquake  Ice  
 Other( )

**SENTINEL ASIA**  
EMERGENCY OBSERVATION REQUEST (EOR) FORM (2/2)

Time limit for information to be uploaded on the SA WEB-portal.

Less than 24 hours  Not exceed 4 days  Not exceed 10 days

Others: \_\_\_\_\_

※ Based on the expected time limit, there might be cases where the delivery of information will be difficult to meet or the product to be delivered is assessed to be not enough at a given time. In such cases, we may not trigger Sentinel Asia.

Date and time(UTC): \_\_\_\_\_

**Date of Occurrence**

Details, news source: \_\_\_\_\_

**Place of occurrence**

Country: \_\_\_\_\_

**Request area**

Name of a place: \_\_\_\_\_

Circular zone

Coordinates of center point

Latitude: \_\_\_\_\_ N

Longitude: \_\_\_\_\_ E

Radius: \_\_\_\_\_ km

Please select one

Rectangular zone

Coordinates of corners

Lat.: \_\_\_\_\_ N  
Lon.: \_\_\_\_\_ E

Lat.: \_\_\_\_\_ N  
Lon.: \_\_\_\_\_ E

**Necessity for Additional Observation**

Necessary  Not necessary  Don't know

The requesting organization (RO) may further ask whether to elevate this Emergency Observation Request (EOR) to International Charter for Space and Major Disasters (ICD) when secretariat confirms its appropriateness. If RO wishes to elevate to IDC, please check the box on the right.

YES  NO

Please send the completed form to ADRC.  
(Fax) +81-78-262-5546 or (E-mail) sarequest@adrc.asia

Request ID: \_\_\_\_\_  
(ICD OR ICDR OF ADRC)

Requester information

Sent to ADRC  
by Email  
[sarequest@adrc.asia](mailto:sarequest@adrc.asia)

Detailed Disaster information in affected area

# SA Web-site



Sentinel Asia  
UserID : adrc0001  
logout

HOME Announce About Sentinel Asia JPT Member FAQ Contact US Links Site Policy

WEB GIS  
Emergency Observation  
Wildfire Monitoring  
Flood Monitoring  
MTSAT Imagery  
Capacity Building  
Library  
Emergency Obs. Request

Emergency Obs. Request List

Emergency Obs. ID	Status	Occurrence Date (UTC)	Country	Disaster Type	Orga
-------------------	--------	-----------------------	---------	---------------	------

Emergency Obs. ID:   
Occurrence Date (UTC): From  To   
Organization:   
Country:   
Status:   
Disaster Type:   
GLIDE Number:   
Search

Reference Register Modify Delete

Emergency Obs. Request Information

Emergency Obs. ID:  Same Request:   
Disaster Type:  Country:   
Occurrence Date (UTC): Date  Time  GLIDE Number:   
ADRC URL:   
User ID:  Name:   
Organization:  Phone:   
Cellular Phone:  Fax Number:   
E-Mail 1:  E-Mail 2:   
E-Mail 3:  E-Mail 4:   
E-Mail 5:   
Observation Term (UTC): From:  To:

Location

Deg Dms

Rectangular Upper-Left(deg): (, ) Upper-Right(deg): (, )  
Lower-Left(deg): (, ) Lower-Right(deg): (, )

Round Center(deg): (, ) Radius:  [km]

Escalation to the Charter, Space and Major Disasters  
 Request to escalate this EO to the Charter

Disaster situation

Comment

Register

Login  
(need your own ID and Password)



Emergency Obs. Request



input the information of the EOR sheet



Register



# New EOR FORM (PLAN)-1

- Addition1: Contact Person, Disaster Management Organization
- Addition2:Planned end-user of the observed information
- Addition3:Purpose of the Request
- Addition4:Time limit for information to be uploaded the SA WEB-portal
- Addition5:Necessity for Additional Observation



# New EOR FORM (PLAN)-2



SENTINEL ASIA EMERGENCY OBSERVATION REQUEST (EOR) FORM ( 1/2)	
Requester (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	
Contact Person ※ Fill in below in case different from the Requester	
Name	
Organization	
Phone	
Cellular phone	
E-mail	
Other E-mail(s) for notification	
Disaster Management Organization	
ADRC, Secretariat of the Sentinel Asia has been collecting local information in cooperation with Disaster Management Organization to carry out effective observation and assess whether a satellite image is useful for the disaster management. Please provide us information, to the best of your knowledge, about the Disaster Management Organization.	
Organization Name	
E-mail	
Other relevant information	
Planned end-user of the observed information	
Please provide us information, to the best of your knowledge, as to which organization (e.g. Disaster Management Organization), agency, or community will utilize the satellite image. ADRC may ask some questions to concerned organization, if needed.	
<input type="checkbox"/> The information/image shall be used only for our organization Please state your role in the organization during disaster response( )	
<input type="checkbox"/> The information will be provided to other relevant organization/s. Please fill in the name of the organization( )	
Purpose of the Request How does your organization intend to use the satellite data?	
<input type="checkbox"/> Emergency Response ( <input type="checkbox"/> Situation confirmation, <input type="checkbox"/> Rescue activity, <input type="checkbox"/> Evacuation activity, <input type="checkbox"/> Others( )	
<input type="checkbox"/> Damage and Loss Assessment(DaLA)/Post Disaster Needs Assessment(PDNA)	
<input type="checkbox"/> Recovery Planning	
<input type="checkbox"/> Detection of an advance warning of hazardous situation	
<input type="checkbox"/> Others( )	
Type of Disaster	
<input type="checkbox"/> Flood	<input type="checkbox"/> Landslide <input type="checkbox"/> Storm <input type="checkbox"/> Forest fire
<input type="checkbox"/> Volcano	<input type="checkbox"/> Earthquake <input type="checkbox"/> Ice hazard <input type="checkbox"/> Tsunami
<input type="checkbox"/> Other( )	

SENTINEL ASIA EMERGENCY OBSERVATION REQUEST (EOR) FORM ( 2/2)	
Time limit for information to be uploaded on the SA WEB-portal	
<input type="checkbox"/> Less than 24 hours <input type="checkbox"/> Not exceed 4 days <input type="checkbox"/> Not exceed 10 days	
<input type="checkbox"/> Others: ※ Based on the expected time limit, there might be cases where the delivery of information will be difficult to meet or the product to be delivered is assessed to be not enough at a given time. In such cases, we may not trigger Sentinel Asia.	
Date of Occurrence	
Date and time(UTC)	
Details, news source	
Place of occurrence	
Country	
Request area	
Name of a place	
Coordinates of center point	
<input type="checkbox"/> Circular zone	Latitude : <input type="text"/> ° <input type="text"/> ' <input type="text"/> " N Longitude : <input type="text"/> ° <input type="text"/> ' <input type="text"/> " E Radius : <input type="text"/> km
Please select one	Coordinates of corners
<input type="checkbox"/> Rectang zone	Lat.: <input type="text"/> ° <input type="text"/> ' <input type="text"/> " N Lon.: <input type="text"/> ° <input type="text"/> ' <input type="text"/> " E Lat.: <input type="text"/> ° <input type="text"/> ' <input type="text"/> " N Lon.: <input type="text"/> ° <input type="text"/> ' <input type="text"/> " E
Necessity for Additional Observation	
<input type="checkbox"/> Necessary <input type="checkbox"/> Not necessary <input type="checkbox"/> Don't know	
The requesting organization (RO) may further ask whether to elevate this Emergency Observation Request (EOR) to International Charter for Space and Major Disasters (ICD) when secretariat confirms its appropriateness. If RO wishes to elevate to ICD, please check the box on the right.	
<input type="checkbox"/> Elevate	
Please send the completed form to ADRC (Fax) +81-78-262-6546 or (E-mail) <a href="mailto:sarequest@adrc.asia">sarequest@adrc.asia</a>	
Request ID (To be filled by ADRC)	<input type="text"/>

Additional input item





# New FORM Addition1

SENTINEL ASIA EMERGENCY OBSERVATION REQUEST (EOR) FORM (1/2)	
<b>Requester (your name and organization)</b>	
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	
<b>Contact Person</b>	
※ Fill in below in case different from the Requester	
Name	
Organization	
Phone	
Cellular phone	
E-mail	
Other E-mail(s) for notification	
<b>Disaster Management Organization</b>	
ADRC is the first point of contact in the Sentinel Asia EOR process. Local information by Disaster Management Organizations (DMOs) is quite essential to undertake the first evaluation of an EOR and judges the Sentinel Asia framework is suitable to assist. To proceed the EOR process, ADRC may contact with DMOs. Please provide following information.	
Organization Name	
E-mail	
Other relevant information	

Requester  
(There is no change)

Contact Person

Disaster Management Organization

# New FORM Addition2

## Planned end-user of the observed information

Please provide us information, to the best of your knowledge, as to which organization (e.g. Disaster Management Organization), agency, or community will utilize the satellite image. ADRC may ask some questions to concerned organization, if needed.

**The information/image shall be used only for our organization**

**Please state your role in the organization during disaster response(**

)

**The information will be provided to other relevant organization/s.**

**Please fill in the name of the organization(**

)

# New FORM Addition3

## Purpose of the Request

How does your organization intend to use the satellite data?

Emergency Response (  Situation confirmation,  Rescue activity,  Evacuation activity ,  Others(

Damage and Loss Assessment(DaLA)/Post Disaster Needs Assessment(PDNA) ) )  
 Recovery Planning  
 Detection of an advance warning of hazardous situation  
 Others( )

# New FORM Addition4, 5

## Time limit for information to be uploaded on the SA WEB-portal

Less than 24 hours       Not exceed 4 days       Not exceed 10 days

Others:

※ Based on the expected time limit, there might be cases where the delivery of information will be difficult to meet or the product to be delivered is assessed to be not enough at a given time. In such cases, we may not trigger Sentinel Asia.

## Necessity for Additional Observation

Necessary       Not necessary       Don't known

# EOR from NARL (Flood, June 2017)



SENTINEL ASIA EMERGENCY OBSERVATION REQUEST (EOR) FORM (1/2)	
Requester (your name and organization)	
Your name	NARL
Your	ADRC has received EOR from MONRE, Vietnam.
Your	This request is regarding heavy rain and flash flood.
Your	MONRE also requested following 4 priority spots for observation.
Your	
Other	-----
	Latitude:22d 27m 00s N
	Longitude:103d 22m 00s E
	Radius:30 km
Name	
Orga	
Phon	
Cellu	
E-mai	
Other	
ADRC	Latitude:21d 55m 00s N
Manag	Longitude:103d 06m 00s E
judges	Radius:30 km
contac	
Orga	
E-mai	
Other	
Latitude:21d 50m 00s N	
Longitude:104d 06m 00s E	
Radius:30 km	
Please	
Manag	
questi	
<input type="checkbox"/> The	
Pleas	
<input checked="" type="checkbox"/> The	
Pleas	
Latitude:21d 35m 00s N	
Longitude:103d 59m 00s E	
Radius:30 km	
-----	
<input type="checkbox"/> Em	
activi	
) )	
<input checked="" type="checkbox"/> Damage and Loss Assessment(DaLA)/Post Disaster Needs Assessment(PDNA)	
<input checked="" type="checkbox"/> Recovery Planning	
<input type="checkbox"/> Detection of an advance warning of hazardous situation	
<input type="checkbox"/> Others( )	
Type of Disaster	
<input checked="" type="checkbox"/> Flood	<input checked="" type="checkbox"/> Landslide
<input type="checkbox"/> Volcano	<input type="checkbox"/> Earthquake
<input type="checkbox"/> Storm	<input type="checkbox"/> Ice hazard
<input type="checkbox"/> Forest fire	<input type="checkbox"/> Tsunami

SENTINEL ASIA EMERGENCY OBSERVATION REQUEST (EOR) FORM (2/2)	
Time limit for information to be uploaded on the SA WEB-portal	
hours	<input type="checkbox"/> Not exceed 4 days <input checked="" type="checkbox"/> Not exceed 10 days
ected time limit, there might be cases where the delivery of information will be difficult	
t to be delivered is assessed to be not enough at a given time. In such cases, we	
nel Asia.	
Date of Occurrence	
C)	2017/6/2
Details, news source	
ly airstream dropped more than 600mm of rain over a few	
Taiwan. Following three full days of extreme torrential rain, it	
es and landslides in mountains area.	
Place of occurrence	
Taiwan	
Request area	
Nantiu county	
Coordinates of center point	
ular	Latitude : ° ' " N
e	Longitude : ° ' " E
	Radius : km
Coordinates of corners	
Lat. :23° 57' 21" N	
Lon.:120° 47' 27" E	
Lat. :23° 27' 21" N	
Lon.:121° 14' 19" E	
angular	
zone	



# Data Sharing on SA website

<https://sentinel.tksc.jaxa.jp/sentinel2/emobSelect.jsp>

Emergency Obs. ID	Occurrence Date	Country	Disaster Type	Product	WEB-GIS	Detail	Disaster Inf.	Status
ERADRC000047	15/Apr/2016	Japan	Earthquake			<a href="#">link</a>	ADRC	Active
ERJJPX000018	11/Mar/2011	Japan	Earthquake			<a href="#">link</a>	ADRC	Active
ERADRC000003	24/Jul/2008	Japan	Earthquake			<a href="#">link</a>	ADRC	Active
ERJJPX000001	14/Jun/2008	Japan	Earthquake			<a href="#">link</a>	ADRC	Active



**Emergency Obs. Request Information**

Emergency Obs. ID: ERADRC000047

Disaster Type: Earthquake Country: Japan

Occurrence Date (UTC): Date: 15/Apr/2016 Time: 16:30 GLIDE Number: EQ-2016-000033-JPN

ADRC URL: [http://www.adrc.asia/view\\_disaster\\_en.php?NationCode=392&lang=en&KEY=2088](http://www.adrc.asia/view_disaster_en.php?NationCode=392&lang=en&KEY=2088)

Request to escalate this EO to the Charter

**Disaster Situation**

The April 15, 2016 M 7.0 earthquake north of Kumamoto, on the island of Kyushu in southwest Japan, occurred as the result of strike-slip faulting at shallow depth.

OK

# Feedback Questionnaire

## Questionnaire on Emergency Observation Request.

Sentinel Asia would like requesters to give an important feedback to improve the system. Your feedback will be great if you could help our work.

\*必須

Which of the following emergency response activities were you working with using satellite images and value added products? (Multiple choice) \*

- Search, Rescue Operation
- Damage Assessment
- Evacuation Order and Guidance
- Estimating Life Supporting Materials (e.g. Food, Water, Medicine, etc.)
- Health and Medical Support
- Coordination with National and International Supporters or Donors
- Information Sharing through Media
- other \_\_\_\_\_

What do you expect Sentinel Asia for your work? (Multiple Choice) \*

- Disaster Response
- Pre-Monitoring
- Early Warning
- Hazard Map
- Education and Training
- Recovery Monitoring
- Capacity development of various stakeholders
- Capacity development of communities in building resilience
- other \_\_\_\_\_

Which of the following natural disaster do you expect for disaster risk reduction for Sentinel Asia? (Multiple Choice) \*

- Earthquake
- Tsunami
- Tropical Cyclone (Typhoon, Hurricane and Cyclone)
- Flood





***Thank you for your attention***