Emergency Observation Request Using Sentinel Asia

The 8th Joint Project Team Meeting
September 18, 2023

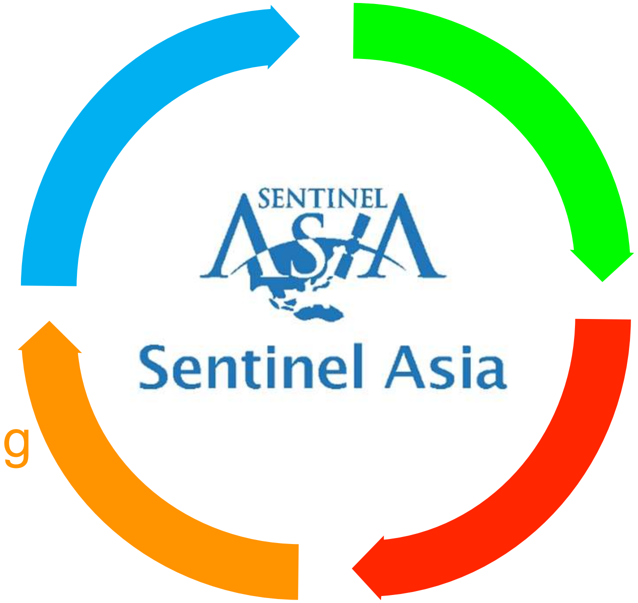
Goro Takei
Deputy Executive Sentinel Asia Secretariat

1. Overview of Sentinel Asia

- ✓ Sentinel Asia is an initiative aiming space-based international cooperation for disaster management in the Asia-Pacific region
- ✓ In February 2006, Sentinel Asia was established in accordance with the recommendation at APRSAF-12 in October 2005
- ✓ Sentinel Asia is expected to implement not only emergency observation but activities covering entire disaster management cycle including mitigation/preparedness and recovery phase after a disaster

Concept of Sentinel Asia Strategic Plan

“Challenges for Disaster Risk Reduction by a Collaboration between Space and Disaster Management Agencies”



MITIGATION
- Hazard Map
- Early Warning
- Success Story
- Pre-disaster monitoring

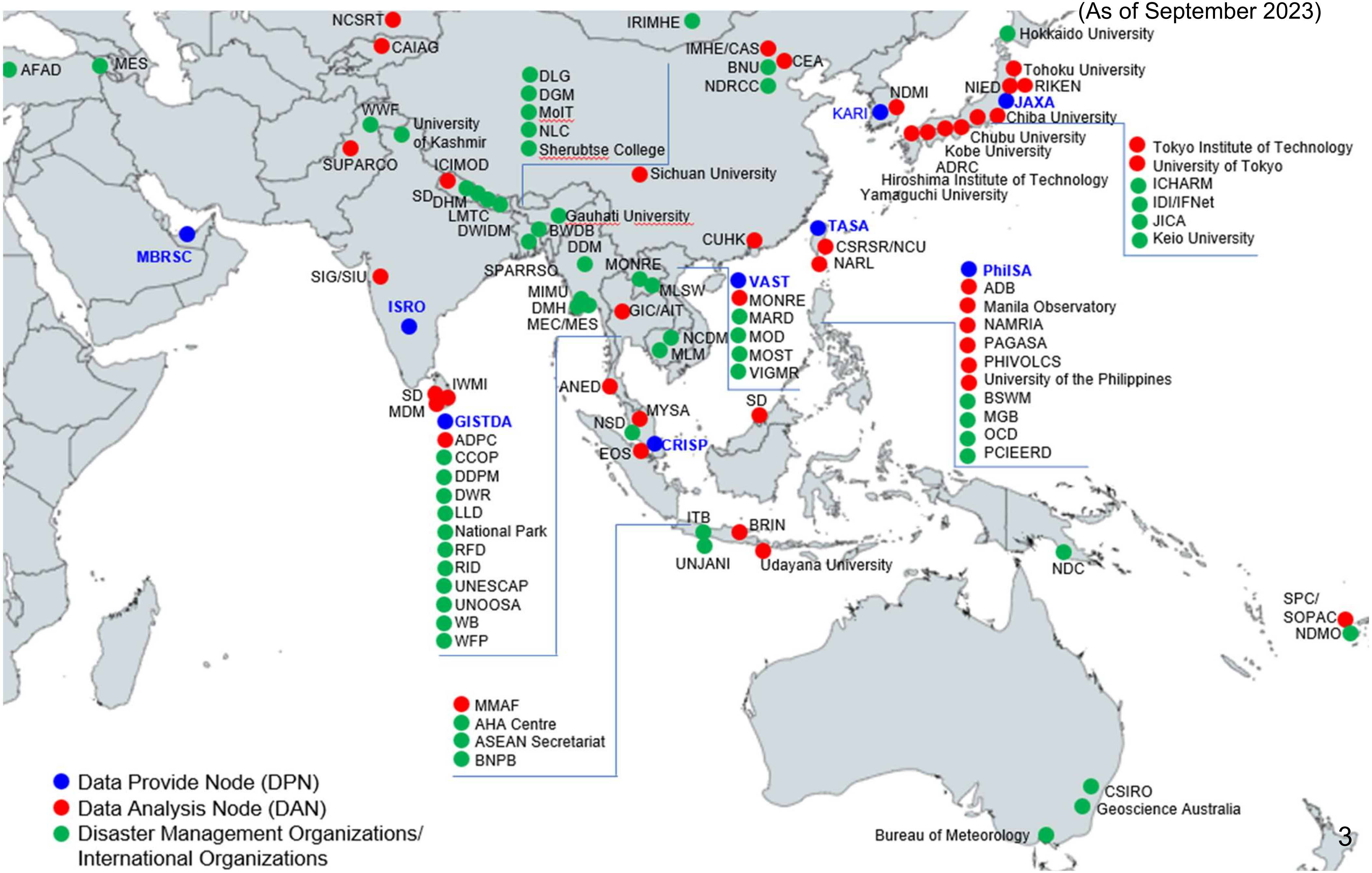
PREPADNESS
- Training
- Capacity Building
- Standard Operation Procedure（SOP)

RESPONSE
- Emergency Observation
- Data Analysis
- Damage Assessment

RECOVERY
- Mid/Long-term monitoring
- Recovery Status

2. Members of Sentinel Asia

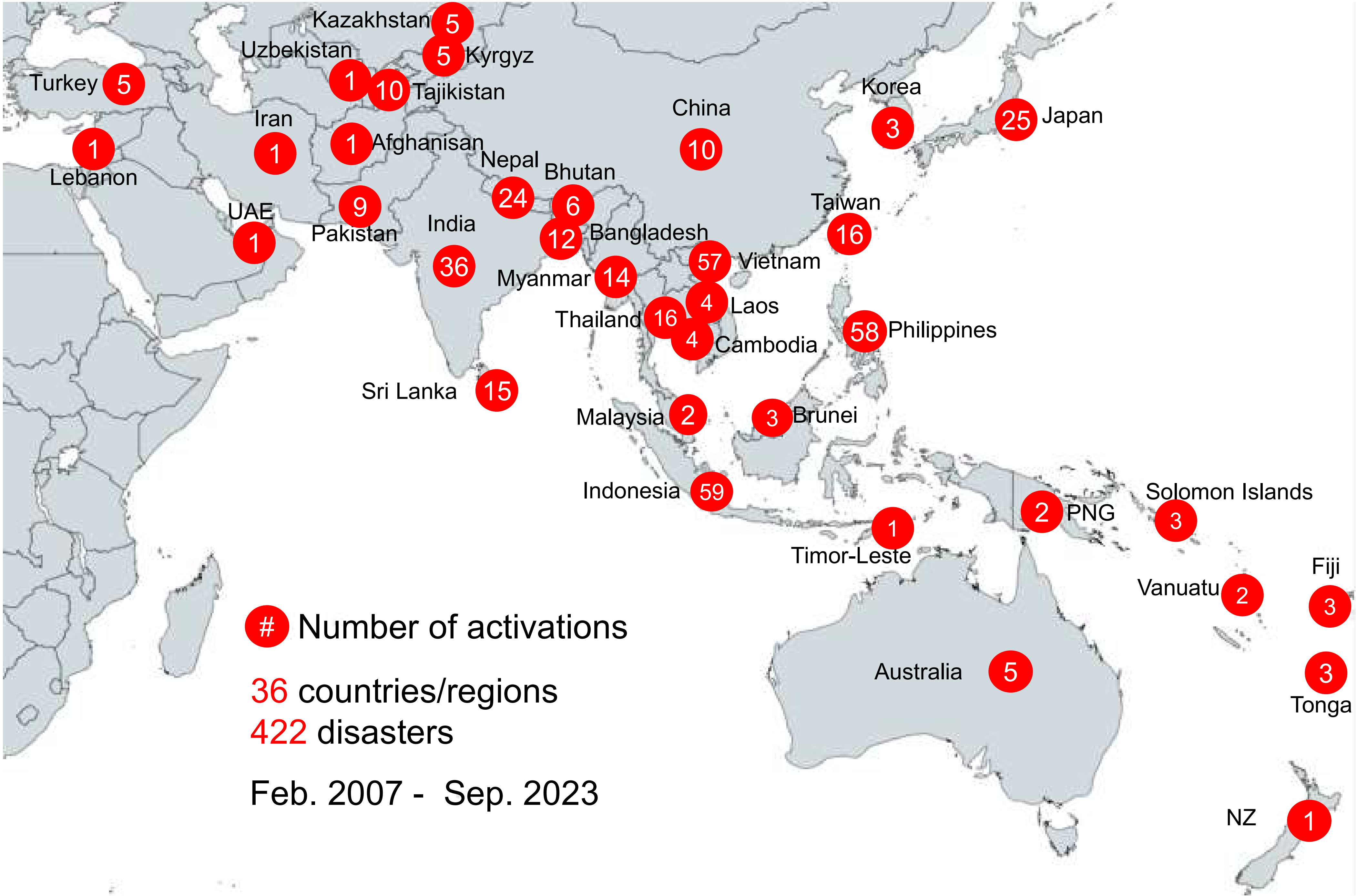
All **114** organizations have the privilege to Request for Emergency Observations



(As of September 2023)

NCSRT
CAIAG
IRIMHE
IMHE/CAS
CEA
BNU
NDRCC
AFAD
MES
DLG
DGM
MoIT
NLC
Sherubtse College
WWF
University of Kashmir
SUPARCO
ICIMOD
SD
DHM
LMTC
DWIDM
Sichuan University
Gauhati University
BWDB
DDM
MBRSC
SIG/SIU
SPARRSO
MONRE
MLSW
MIMU
DMH
MEC/MES
GIC/AIT
ISRO
NCDM
MLM
IWMI
SD
MDM
ANED
GISTDA
ADPC
CCOP
DDPM
DWR
LLD
National Park
RFD
RID
UNESCAP
UNOOSA
WB
WFP
MYSA
NSD
CRISP
EOS
CUHK
VAST
MONRE
MARD
MOD
MOST
VIGMR
SD
Hokkaido University
Tohoku University
NIED
RIKEN
NDMI
KARI
JAXA
Chiba University
Chubu University
Kobe University
ADRC
Hiroshima Institute of Technology
Yamaguchi University
Tokyo Institute of Technology
University of Tokyo
ICHARM
IDI/IFNet
JICA
Keio University
TASA
CSRSR/NCU
NARL
PhilSA
ADB
Manila Observatory
NAMRIA
PAGASA
PHIVOLCS
University of the Philippines
BSWM
MGB
OCD
PCIEERD
ITB
BRIN
UNJANI
Udayana University
NDC
SPC/SOPAC
NDMO
MMAF
AHA Centre
ASEAN Secretariat
BNPB
CSIRO
Geoscience Australia
Bureau of Meteorology
● Data Provide Node (DPN)
● Data Analysis Node (DAN)
● Disaster Management Organizations/ International Organizations

3. Emergency Observation Requests by Geographical Distribution


Kazakhstan 5
Uzbekistan 1
Kyrgyz 5
Turkey 5
Tajikistan 10
Korea 3
China 10
Japan 25
Iran 1
Lebanon 1
Afghanisan 1
Nepal 24
Bhutan 6
UAE 1
Pakistan 9
India 36
Bangladesh 12
Taiwan 16
Vietnam 57
Myanmar 14
Laos 4
Thailand 16
Cambodia 4
Philippines 58
Sri Lanka 15
Malaysia 2
Brunei 3
Indonesia 59
Solomon Islands 3
PNG 2
Timor-Leste 1
Fiji 3
Vanuatu 2
Australia 5
Tonga 3
NZ 1
# Number of activations

36 countries/regions
422 disasters

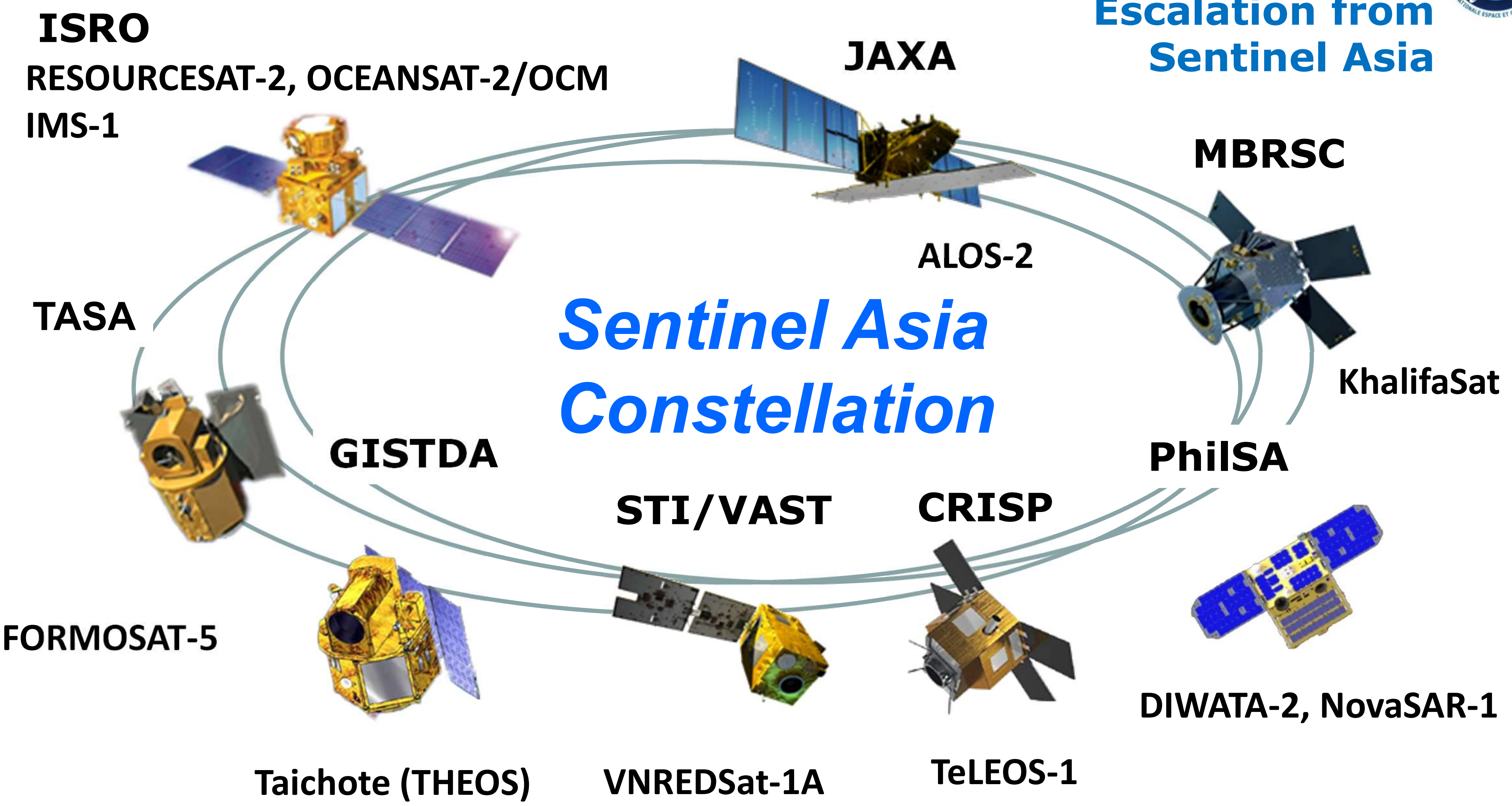
Feb. 2007 - Sep. 2023

4.1 Sentinel Asia "Data Provider Node" (DPN) currently contributing to Emergency Observations

- ✓ 8 space agencies/research institutes currently contributing to emergency observation
- ✓ If necessary, escalate Emergency Observation Request (EOR) to the International Disaster Charter (IDC)

International Charter

Escalation from Sentinel Asia



Sentinel Asia Constellation

ISRO

RESOURCESAT-2, OCEANSAT-2/OCM

IMS-1

JAXA

ALOS-2

MBRSC

KhalifaSat

TASA

FORMOSAT-5

GISTDA

Taichote (THEOS)

STI/VAST

VNREDSat-1A

CRISP

TeLEOS-1

PhilSA

DIWATA-2, NovaSAR-1

4.2 Data Providers of International Charter

- ✓ There are 17 Space Agencies providing Satellite Images to International Disaster Charter upon Emergency Observation Requests.

Agencia Bolivariana para Actividades Espaciales (ABAE)

Centre National d'Etudes Spatiales (CNES)

European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT)

European Space Agency (ESA)

Indian Space Research Organisation (ISRO)

Japan Aerospace Exploration Agency (JAXA)

4.2 Data Providers of International Charter

- ✓ There are 17 Space Agencies providing Satellite Images to International Disaster Charter upon Emergency Observation Requests.

National Institute for Space Research (INPE)

National Oceanic and Atmospheric Administration (NOAA)

The State Space Corporation (ROSCOSMOS)

UK Space Agency and DMC International Imaging (DMCii)

Canadian Space Agency (CSA)

UAE Space Agency (UAESA) and Mohammed Bin Rashid Space Centre (MBRSC)

4.2 Data Providers of International Charter

- ✓ There are 5 Private Sector Companies providing Satellite Images to International Disaster Charter upon Emergency Observation Requests.

BlackSky

ICEYE

Maxar Technologies

Planet

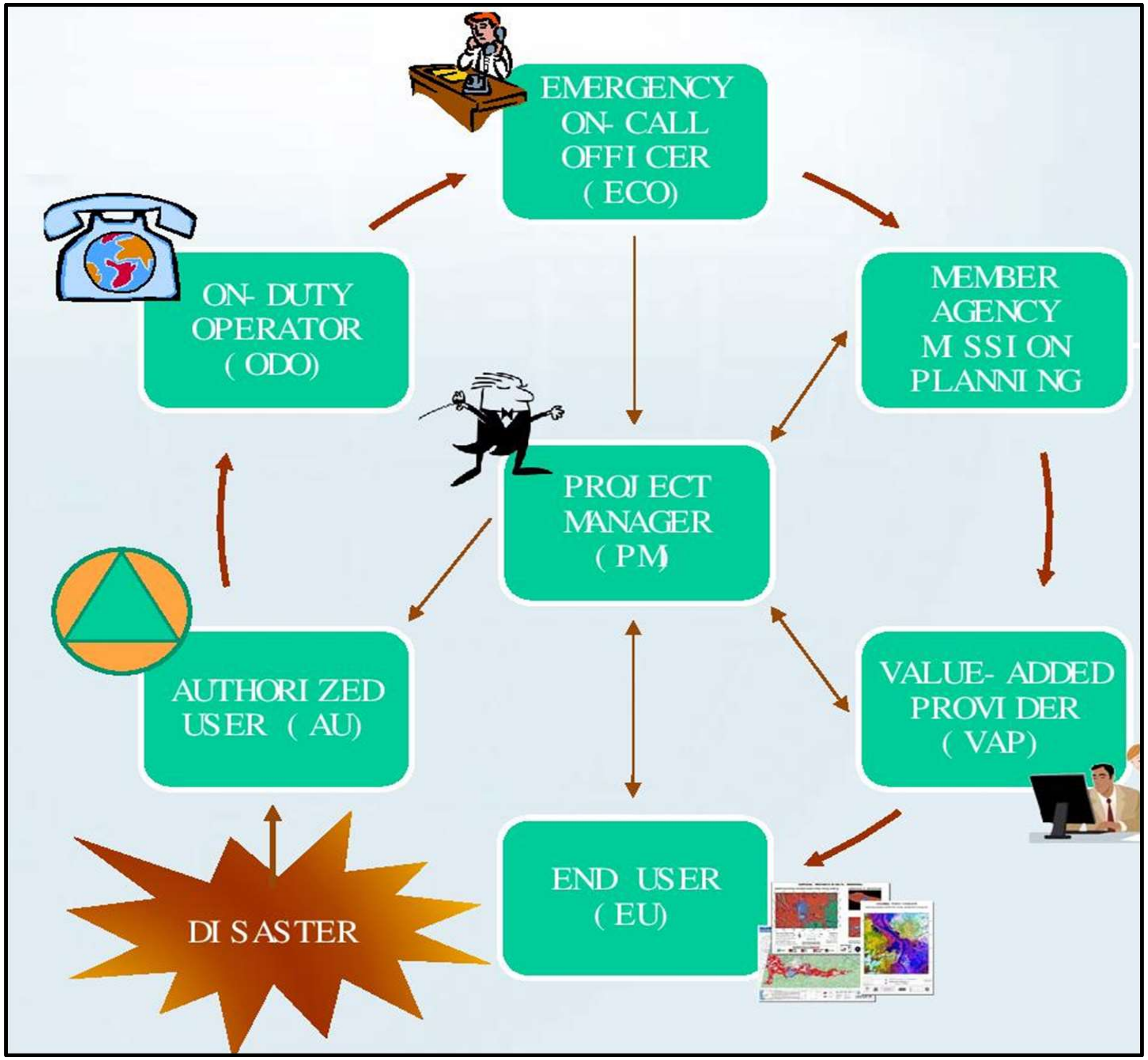
Satellogic

5. Escalation to International Disaster Charter

- ✓ IDC is useful when huge disaster strikes and DMO needs more data than SA may provide.
- ✓ The requester of SA EOR may escalate the request to IDC with simple steps.
- ✓ Once the escalation is activated by IDC, Project Manager(PM) must be assigned.
- ✓ PM will coordinate with the requester to provide VAPs from IDC.
- ✓ It is preferrable to provide PM from the Local DMO or assisting organizations from the country or region of the disaster. (Since they have the knowledge of the geographical characteristics of the area of interest)
- ✓ Sentinel Asia may provide onsite 1 day PM Training.
- ✓ Sentinel Asia may provide PM if there is no one volunteers for the PM.

5. Escalation to International Disaster Charter

- ✓ The Role of PM
- ✓ Sole Interface between the Charter and the User


EMERGENCY ON- CALL OFFICER (ECO)
MEMBER AGENCY MISSION PLANNING
ON- DUTY OPERATOR (ODO)
PROJECT MANAGER (PM)
VALUE- ADDED PROVIDER (VAP)
AUTHORIZED USER (AU)
END USER (EU)
DISASTER

5. Escalation to International Disaster Charter

IMPORTANT POINT

The PM communicates with the IDC members, Value Adders, and End Users to ensure that the data have been:

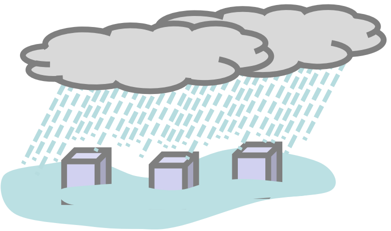
- **collected** (contact with partner agencies)
- **processed** (internally or contact with Value Added Companies)
- **delivered** (contact with Authorised Users / End users)

IDC requests how the Satellite images and VAPs are used to be reported in the PM Report.

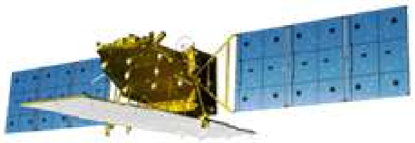
Please keep in mind that there are Extra Loads for tasking to IDC.

6. How to Request Emergency Observation

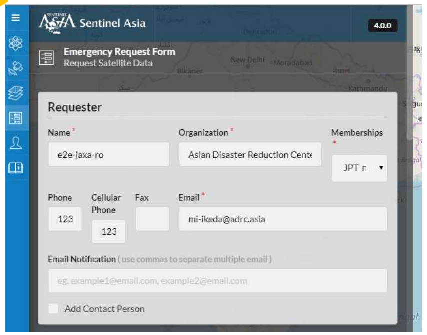
Disaster Occurrence



③ **ADRC**
Approves EOR



① **SA Members**
Request Emergency Observation
using OPTEMIS


Sentinel Asia
4.0.0

Emergency Request Form
Request Satellite Data

Requester

Name *: e2e-jaxa-ro
Organization *: Asian Disaster Reduction Cente
Memberships *: JPT n ▾
Phone: 123
Cellular Phone: 123
Fax:
Email *: mi-ikeda@adrc.asia
Email Notification (use commas to separate multiple email): eg. example1@email.com, example2@email.com
☐ Add Contact Person

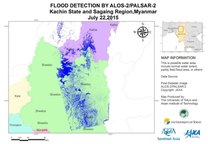
OPTEMIS

SFTP for DPN and DAN

WebGIS

④ **Data Provider Nodes (DPN) provide Satellite Images**

⑤ **Data Analysis Nodes (DAN) analyze Satellite Images and provide Value Added Product (VAP)**


FLOOD DETECTION BY ALOS-2/PALSAR-2
Kachin State and Sagaing Region,Myanmar
July 22,2015
MAP INFORMATION
This is possible water area include normal water extent, paddy field,flood area, or others.
Data Source:
Post-Disaster image
ALOS-2/PALSAR-2
Copyright: JAXA
Map Produced by:
The University of Tokyo and Asian institute of Technology

② **SA Members may request Escalation to International Disaster Charter for more Satellite Images**

International Disaster Charter

⑥ **SA Members Retrieve VAP**

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6. Emergency Observation Flow

STEP1

- Disaster occurs

STEP2

- A Sentinel Asia member submits Emergency Observation Request (EOR) to Asia Disaster Reduction Center (ADRC) using OPTEMIS

STEP3

- ADRC review the EOR and send email to Data Provider Node (DPN) and Data Analysis Node (DAN) to ask their support

STEP4

- DPN conduct emergency observation and provide satellite data
- DAN analyze the provided satellite data to extract the area of hazards

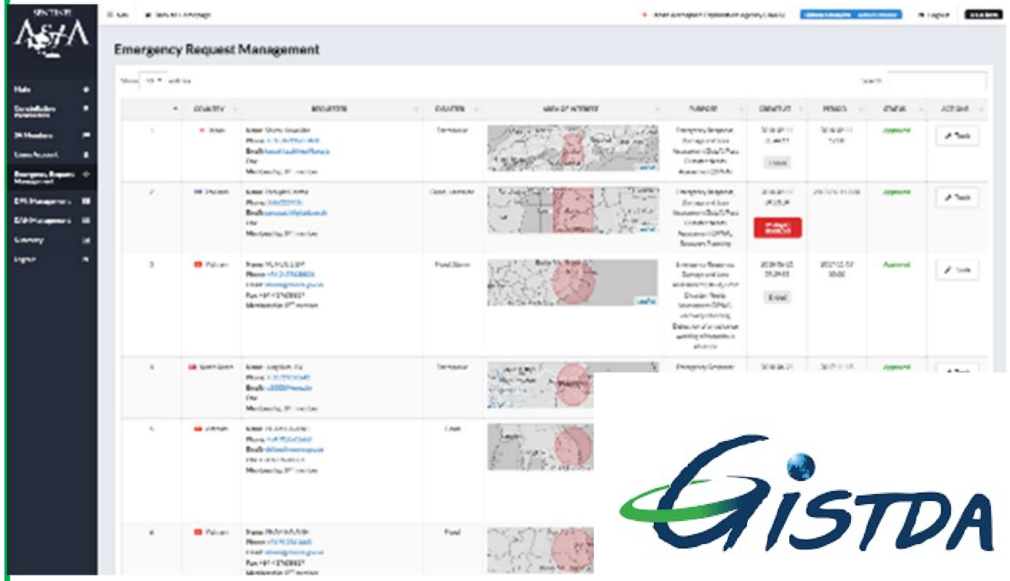
STEP5

- Sentinel Asia provide analyzed disaster information to requester

※Some disaster information is open to public

7. Tools Developed for SA Emergency Observation Requests

OPTEMIS by GISTDA



Sentinel Asia Cloud Storage
(SFTP in Taipei and Mumbai)

OPTEMIS, developed by GISTDA, is a web application with User Friendly Interface, managing data regarding EORs (such as User requests of Emergency Observation, Area of Interests, Observation Plan, Observation data, Value Added Products).

SFTP, provided by TASA and JAXA, is a Cloud storage SSH File Transfer Protocol (SFTP) site storing Satellite Observation Data and analyzed Value Added Products provided for DPN and DAN

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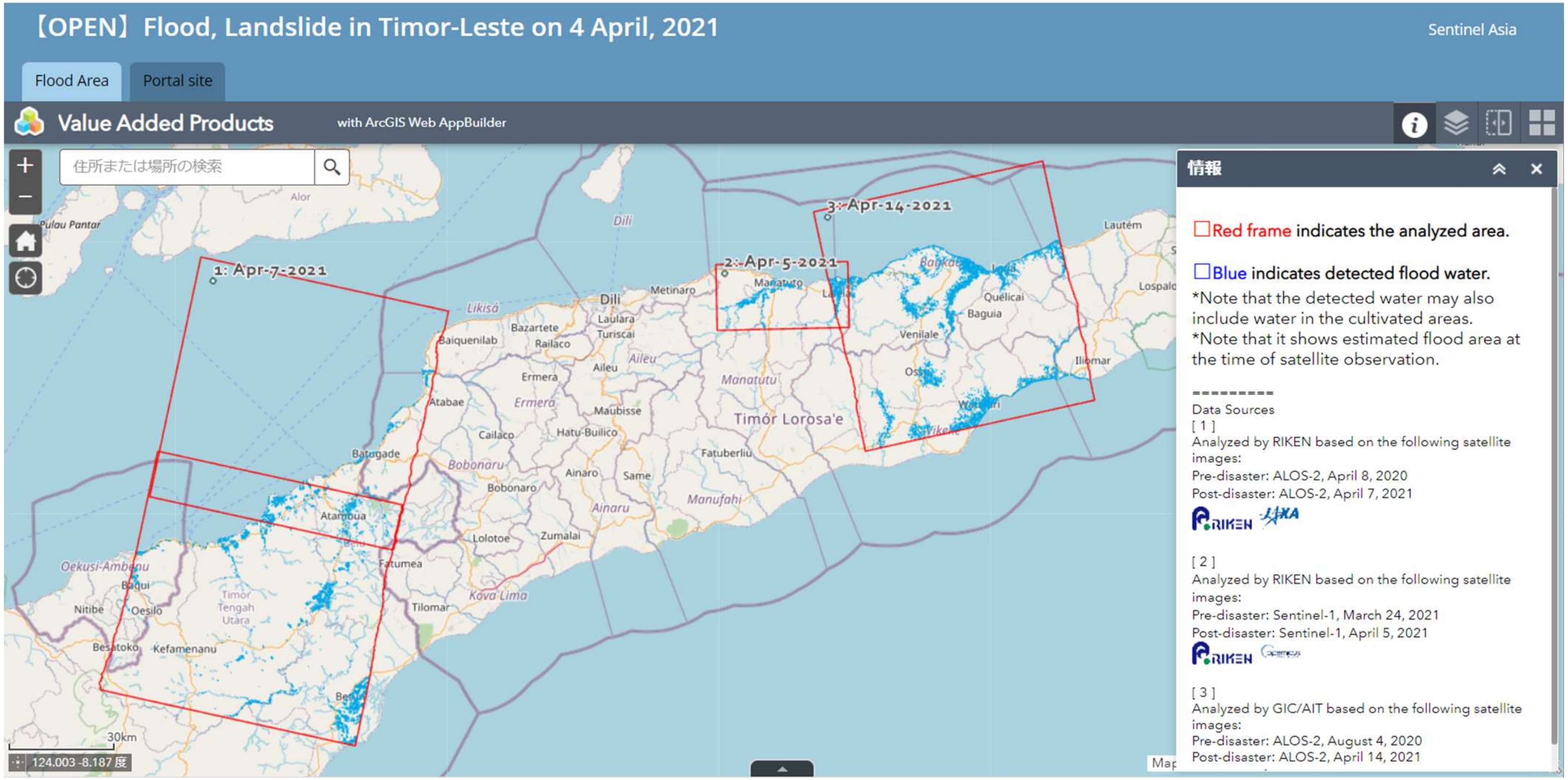
7. Tools Developed for SA Emergency Observation Requests

Web based Geographic Information System (WebGIS)



【OPEN】Flood, Landslide in Timor-Leste on 4 April, 2021

Flood Area | Portal site

Value Added Products with ArcGIS Web AppBuilder

情報

☐Red frame indicates the analyzed area.

☐Blue indicates detected flood water.

*Note that the detected water may also include water in the cultivated areas.

*Note that it shows estimated flood area at the time of satellite observation.

==========

Data Sources

[1]

Analyzed by RIKEN based on the following satellite images:

Pre-disaster: ALOS-2, April 8, 2020

Post-disaster: ALOS-2, April 7, 2021

[2]

Analyzed by RIKEN based on the following satellite images:

Pre-disaster: Sentinel-1, March 24, 2021

Post-disaster: Sentinel-1, April 5, 2021

[3]

Analyzed by GIC/AIT based on the following satellite images:

Pre-disaster: ALOS-2, August 4, 2020

Post-disaster: ALOS-2, April 14, 2021

Sentinel Asia
住所または場所の検索
1: Apr-7-2021
2: Apr-5-2021
3: Apr-14-2021
Alor
Pulau Pantar
Dili
Lautém
Metinaro
Manatuto
Baucau
Quelicai
Baguia
Lospalos
Venilale
Iliomar
Ossu
Viqueque
Liquiçá
Bazartete
Railaco
Laulara
Turiscai
Aileu
Baiquenilab
Ermera
Atabae
Maubisse
Hatu-Builico
Cailaco
Batugade
Bobonaro
Ainaro
Same
Manatutu
Timór Lorosa'e
Fatuberliu
Manufahi
Atambua
Lolotoe
Zumalai
Fatumea
Oekusi-Ambenu
Baqui
Nitibe
Oesilo
Timor Tengah Utara
Besitoko
Kefamenanu
Tilomar
Kova Lima
30km
124.003 -8.187 度
RIKEN
JAXA
Copernicus

Observed data and Value Added Products are displayed on easy to use visualization tool (WebGIS), to help Emergency Observation Requesters gather geographical information of the disaster areas.

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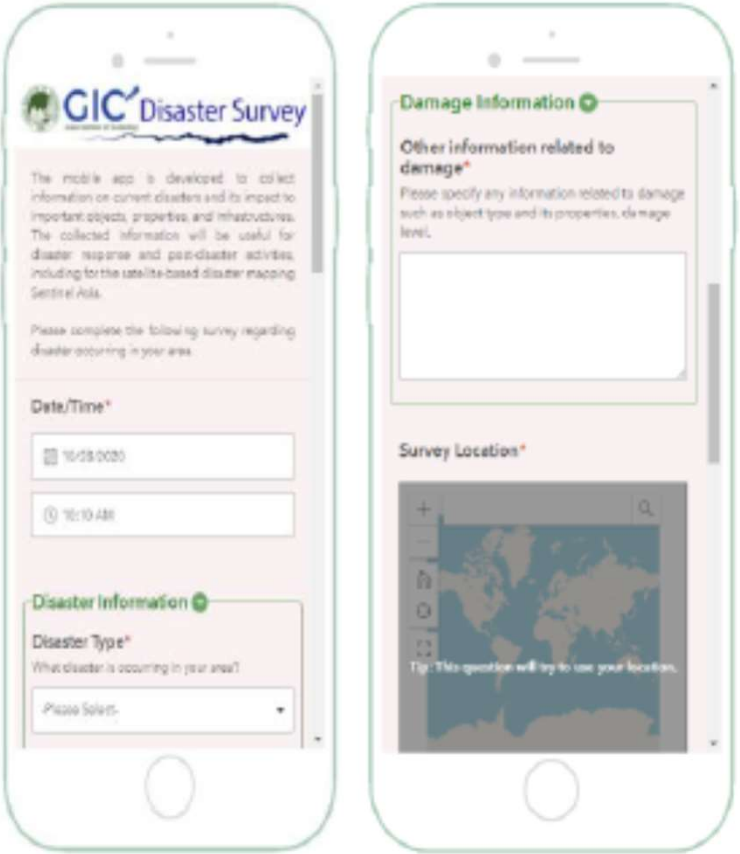
7. Tools Developed for SA Emergency Observation Requests

Mobile application developed by AIT

- Web link: https://arcg.is/1HWGWX0
- QR Code:



The mobile app is developed to collect information on current disasters and its impact to important objects, properties and infrastructures. The collected information will be useful for disaster response and post-disaster activities, including for the satellite-based disaster mapping Sentinel Asia.

Please complete the following survey regarding disaster occurring in your area.

Date/Time*

10/28/2020

10:10 AM

Disaster Information

Disaster Type*

What disaster is occurring in your area?

-Please Select-

Damage Information

Other information related to damage*

Please specify any information related to damage such as object type and its properties, damage level.

Survey Location*

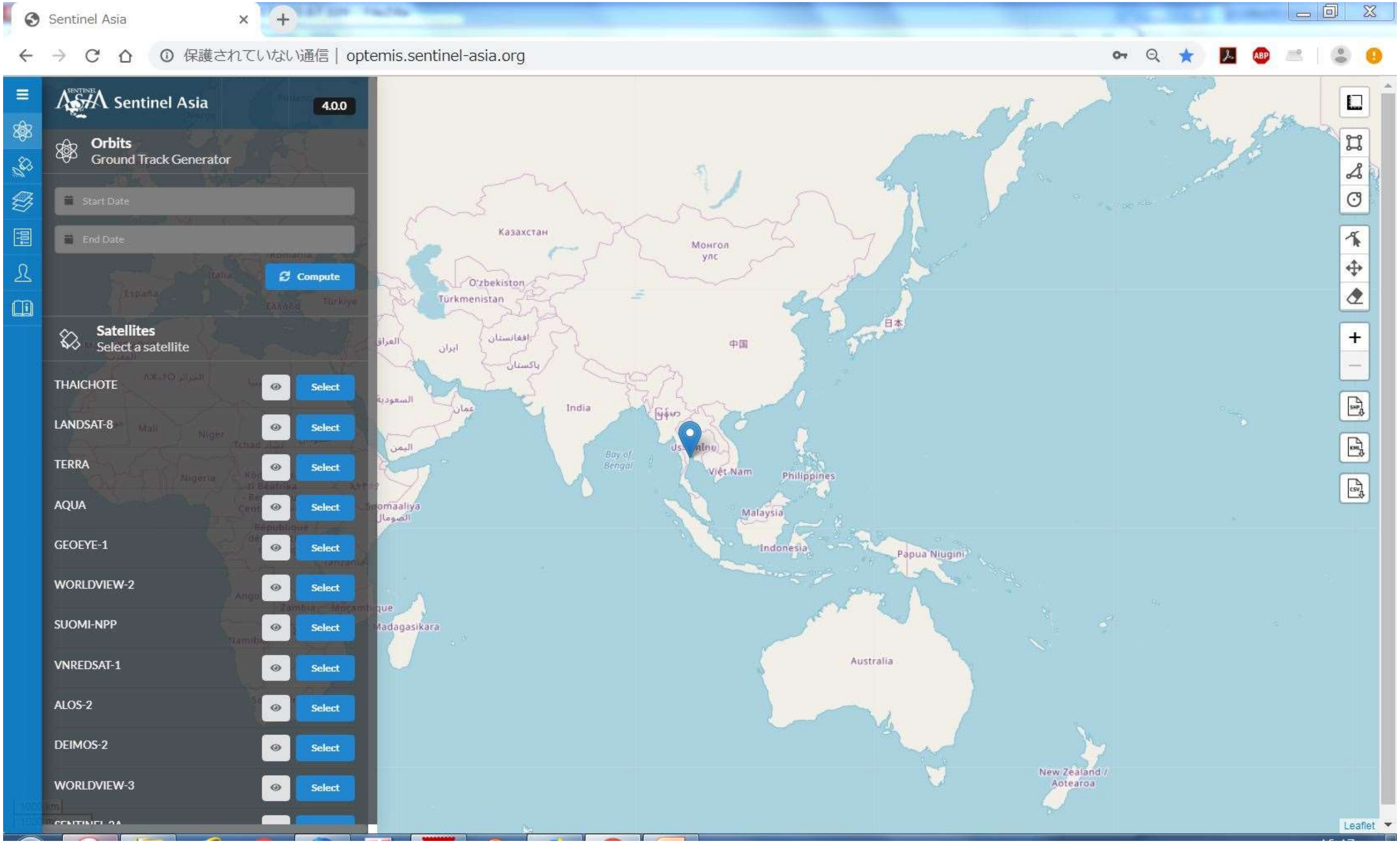
Tip: This question will try to use your location.

Mobile Application is developed by Asia Institute of Technology (AIT) to collect on-site information of disaster area (such as photographs taken on-site)

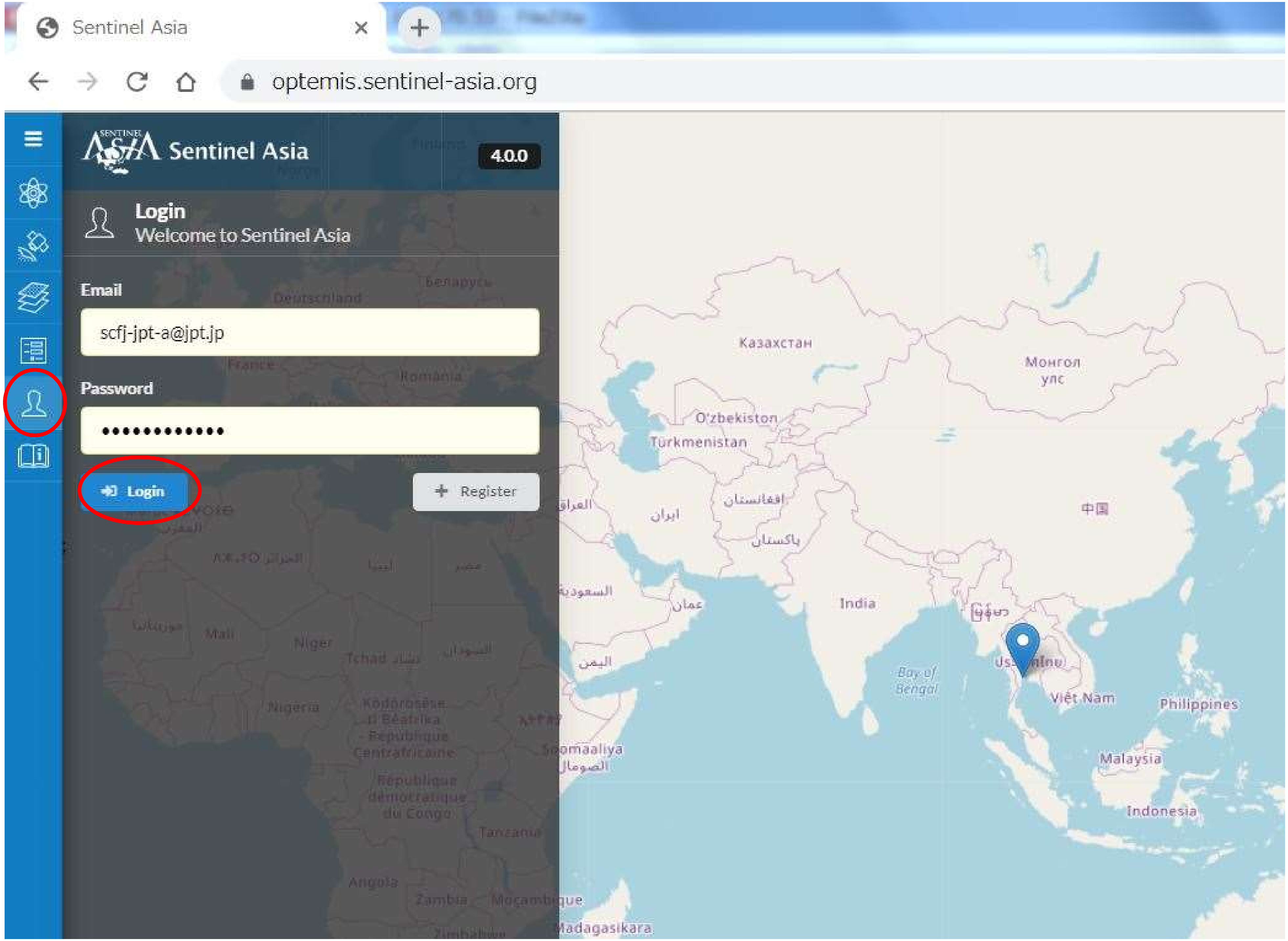
©JAXA

8. How to Use OPTEMIS

Top page https://optemis.sentinel-asia.org/


Sentinel Asia
保護されていない通信 | optemis.sentinel-asia.org
Sentinel Asia
4.0.0
Orbits
Ground Track Generator
Start Date
End Date
Compute
Satellites
Select a satellite
THAICHOTE
LANDSAT-8
TERRA
AQUA
GEOEYE-1
WORLDVIEW-2
SUOMI-NPP
VNREDSAT-1
ALOS-2
DEIMOS-2
WORLDVIEW-3
Select
Казахстан
Монгол улс
O'zbekiston
Türkmenistan
中国
日本
India
Bay of Bengal
Việt Nam
Philippines
Malaysia
Indonesia
Papua Niugini
Australia
New Zealand / Aotearoa
Soomaaliya
Madagasikara
Leaflet

8.1 Login to OPTEMIS


Sentinel Asia
optemis.sentinel-asia.org
Sentinel Asia
4.0.0
Login
Welcome to Sentinel Asia

Email

scfj-jpt-a@jpt.jp

Password

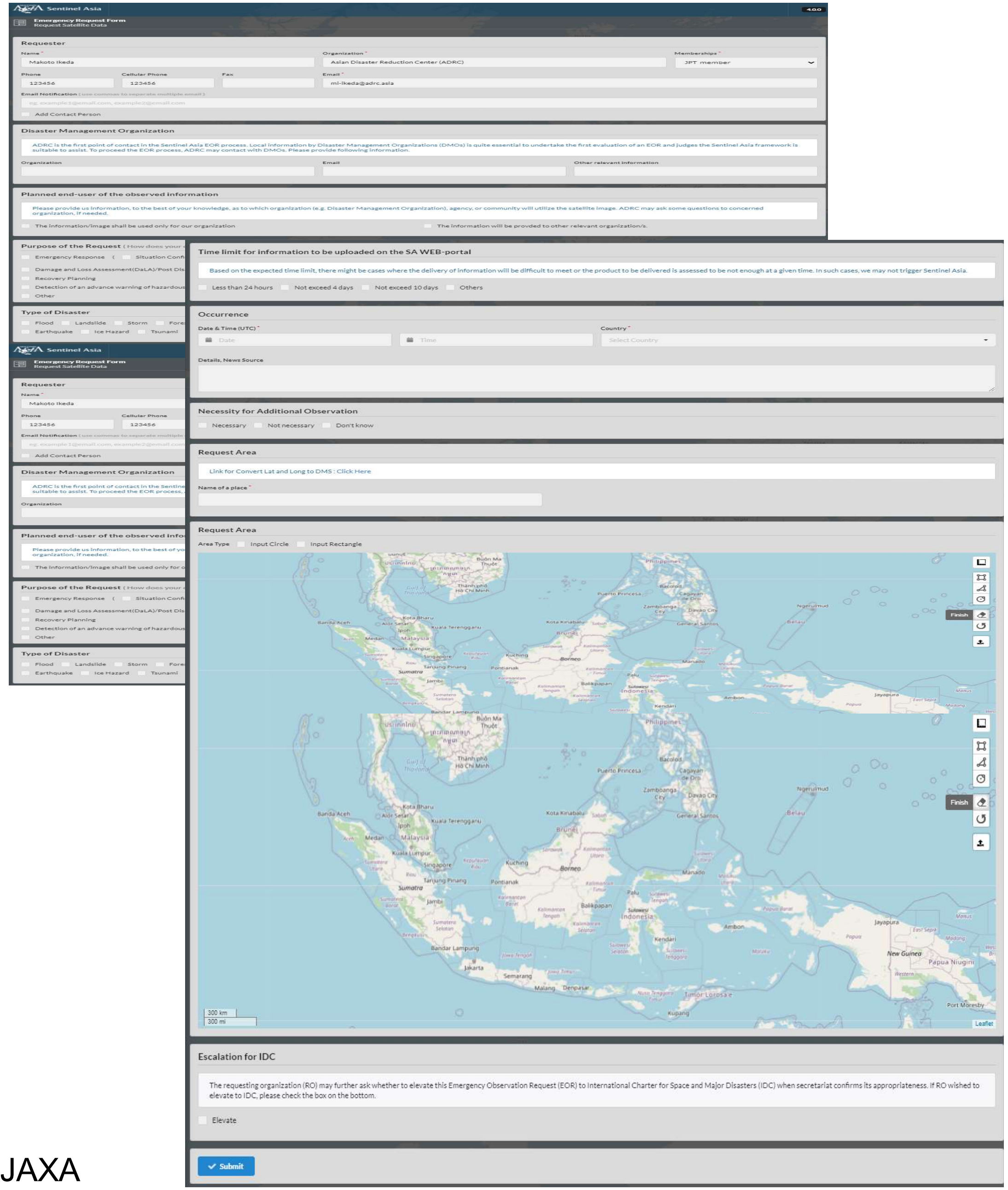
••••••••••••

Login
Register

8.2 Request Emergency Observation

Information needed to request Emergency Observation

- **Requestor**
- **Disaster Management Organization**
- **Planned end-user of the observed information**
- **Purpose of the Request**
- **Type of Disaster**
- **Analysis requirement for damages**
- **Request for Data Analysis Node**
- **Time limit for information to be uploaded on the SA WEB-portal**
- **Occurrence**
- **Necessity for Additional Observation**
- **Request Area (Place of Name)**
- **Request Area (Extent)**
- **Escalation for IDC**



Emergency Request Form
Request Satellite Data

Requester

Name *: Makoto Ikeda
Organization *: Asian Disaster Reduction Center (ADRC)
Memberships *: JPT member
Phone: 123456
Cellular Phone: 123456
Fax:
Email *: mi-ikeda@adrc.asia
Email Notification (use commas to separate multiple email): eg. example1@email.com, example2@email.com
☐ Add Contact Person

Disaster Management Organization

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:
Email:
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.

☐ The information/image shall be used only for our organization
☐ The information will be provded to other relevant organization/s.

Purpose of the Request (How does your

☐ Emergency Response (☐ Situation Confi
☐ Damage and Loss Assessment(DaLA)/Post Dis
☐ Recovery Planning
☐ Detection of an advance warning of hazardous
☐ Other

Type of Disaster

☐ Flood ☐ Landslide ☐ Storm ☐ Fore
☐ Earthquake ☐ Ice Hazard ☐ Tsunami

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

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.

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

Occurrence

Date & Time (UTC) *: Date / Time
Country *: Select Country
Details, News Source:

Necessity for Additional Observation

☐ Necessary ☐ Not necessary ☐ Don't know

Request Area

Link for Convert Lat and Long to DMS : Click Here

Name of a place *:

Request Area

Area Type ☐ Input Circle ☐ Input Rectangle

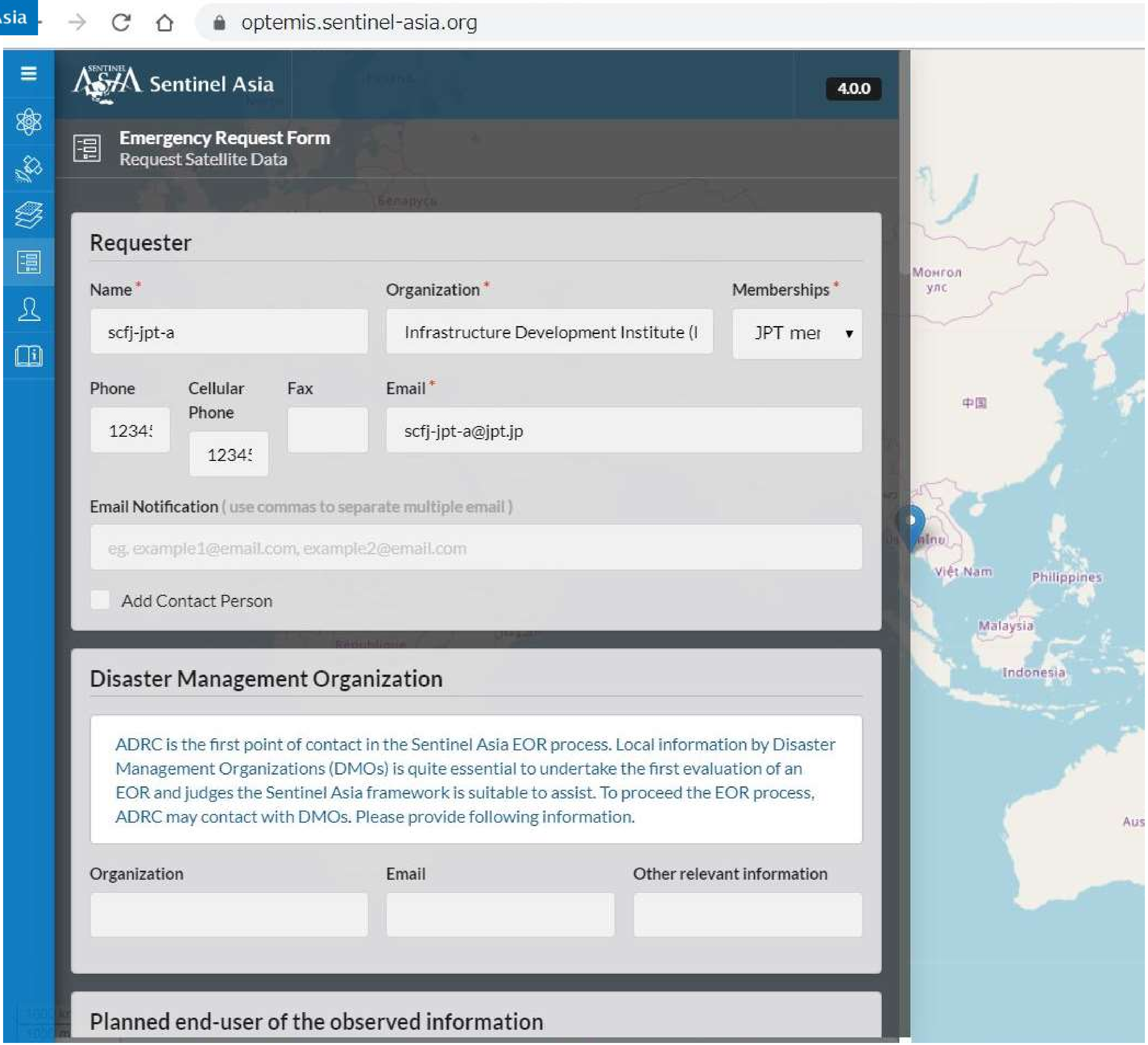
Escalation for IDC

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

☐ Elevate

©JAXA

8.2.1 Fill in the EOR Form 1/5


optemis.sentinel-asia.org
Sentinel Asia
4.0.0
Монгол улс
中国
Việt Nam
Philippines
Malaysia
Indonesia
Aus

Emergency Request Form
Request Satellite Data

Requester

Name * : scfj-jpt-a
Organization * : Infrastructure Development Institute (I
Memberships * : JPT mer ▾
Phone: 1234!
Cellular Phone: 1234!
Fax:
Email * : scfj-jpt-a@jpt.jp

Email Notification (use commas to separate multiple email)
eg. example1@email.com, example2@email.com

☐ Add Contact Person

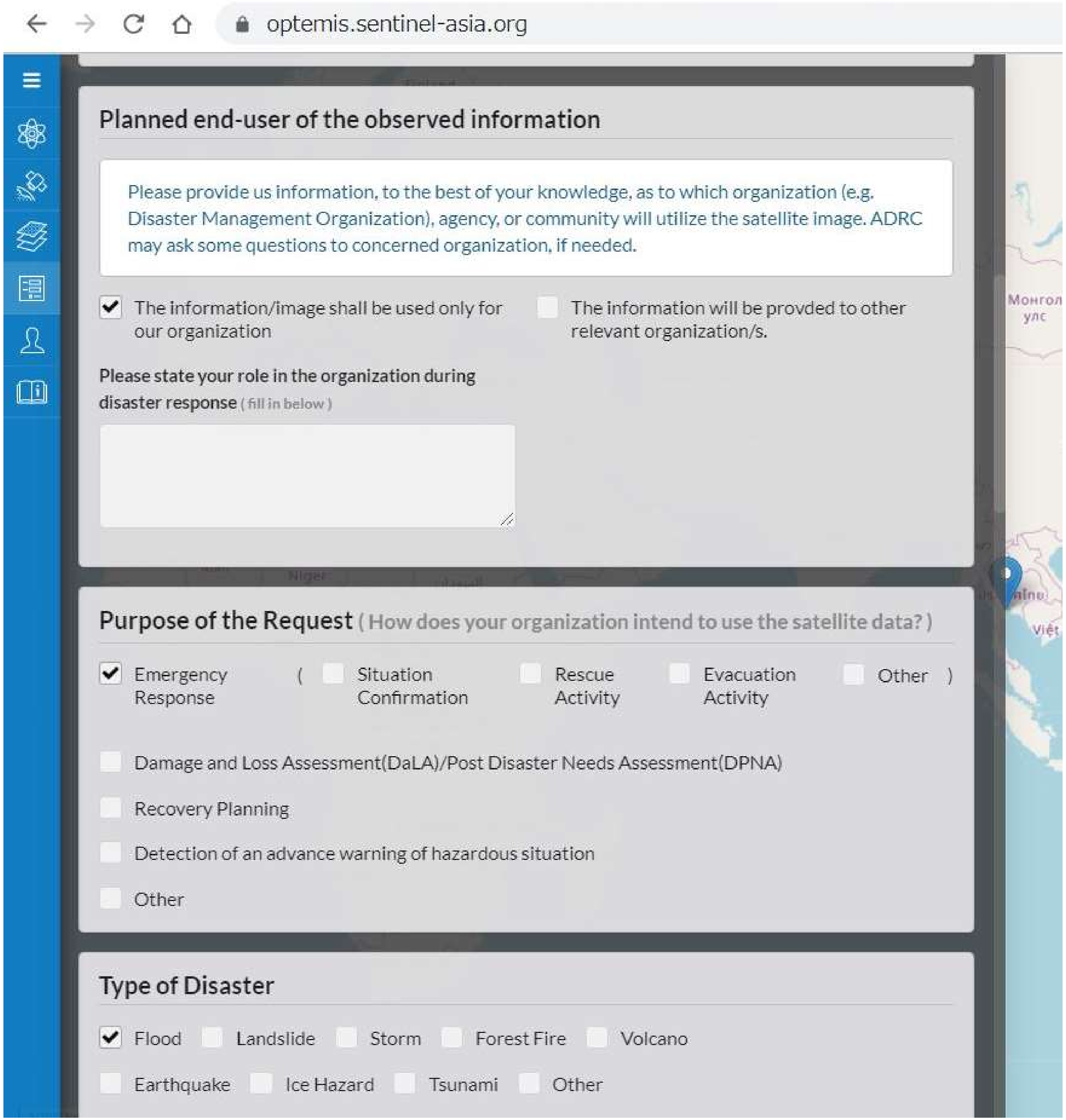
Disaster Management Organization

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:
Email:
Other relevant information:

Planned end-user of the observed information

8.2.1 Fill in the EOR Form 2/5



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 ☐ The information will be provded to other relevant organization/s.

Please state your role in the organization during disaster response (fill in below)

Purpose of the Request (How does your organization intend to use the satellite data?)

☑ Emergency Response (☐ Situation Confirmation ☐ Rescue Activity ☐ Evacuation Activity ☐ Other)

☐ Damage and Loss Assessment(DaLA)/Post Disaster Needs Assessment(DPNA)

☐ Recovery Planning

☐ Detection of an advance warning of hazardous situation

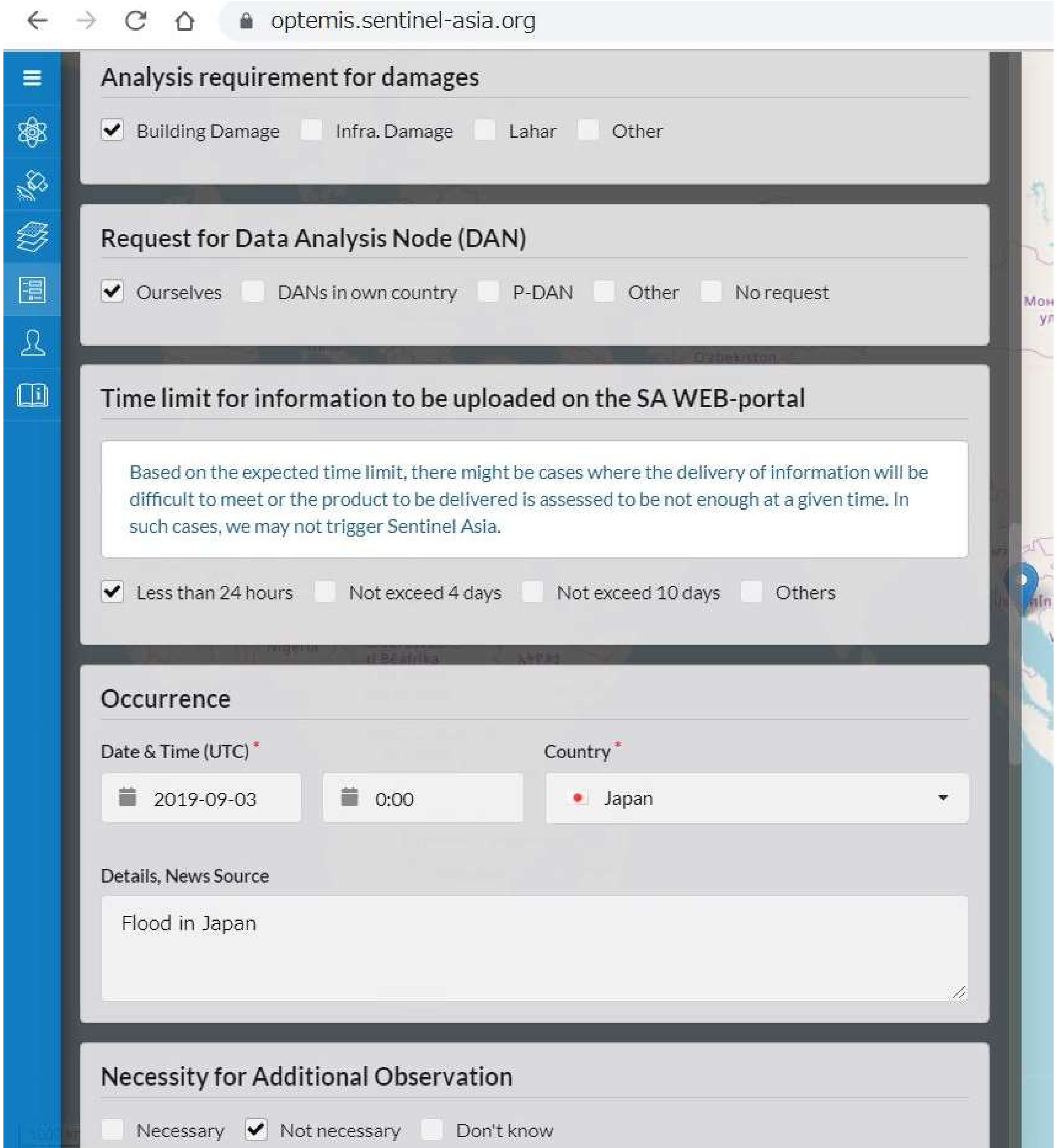
☐ Other

Type of Disaster

☑ Flood ☐ Landslide ☐ Storm ☐ Forest Fire ☐ Volcano

☐ Earthquake ☐ Ice Hazard ☐ Tsunami ☐ Other

8.2.1 Fill in the EOR Form 3/5



Analysis requirement for damages

☑ Building Damage ☐ Infra. Damage ☐ Lahar ☐ Other

Request for Data Analysis Node (DAN)

☑ Ourselves ☐ DANs in own country ☐ P-DAN ☐ Other ☐ No request

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

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.

☑ Less than 24 hours ☐ Not exceed 4 days ☐ Not exceed 10 days ☐ Others

Occurrence

Date & Time (UTC) *: 2019-09-03 0:00

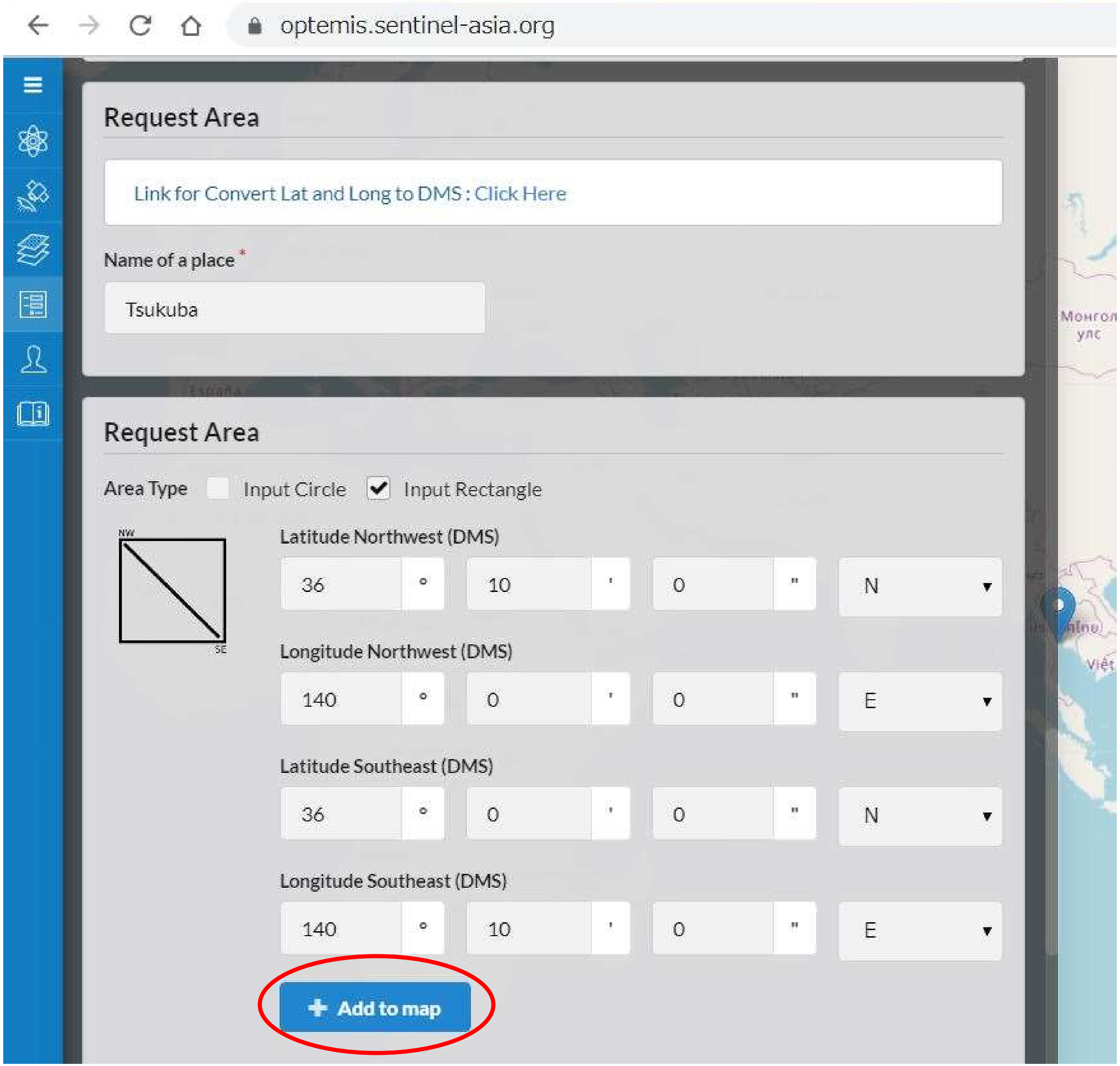
Country *: Japan

Details, News Source: Flood in Japan

Necessity for Additional Observation

☐ Necessary ☑ Not necessary ☐ Don't know

8.2.1 Fill in the EOR Form 4/5


optemis.sentinel-asia.org
NW
SE
Монгол улс
Việt

Request Area

Link for Convert Lat and Long to DMS : Click Here

Name of a place *
Tsukuba

Request Area

Area Type ☐ Input Circle ☑ Input Rectangle

Latitude Northwest (DMS)
36 ° 10 ' 0 " N

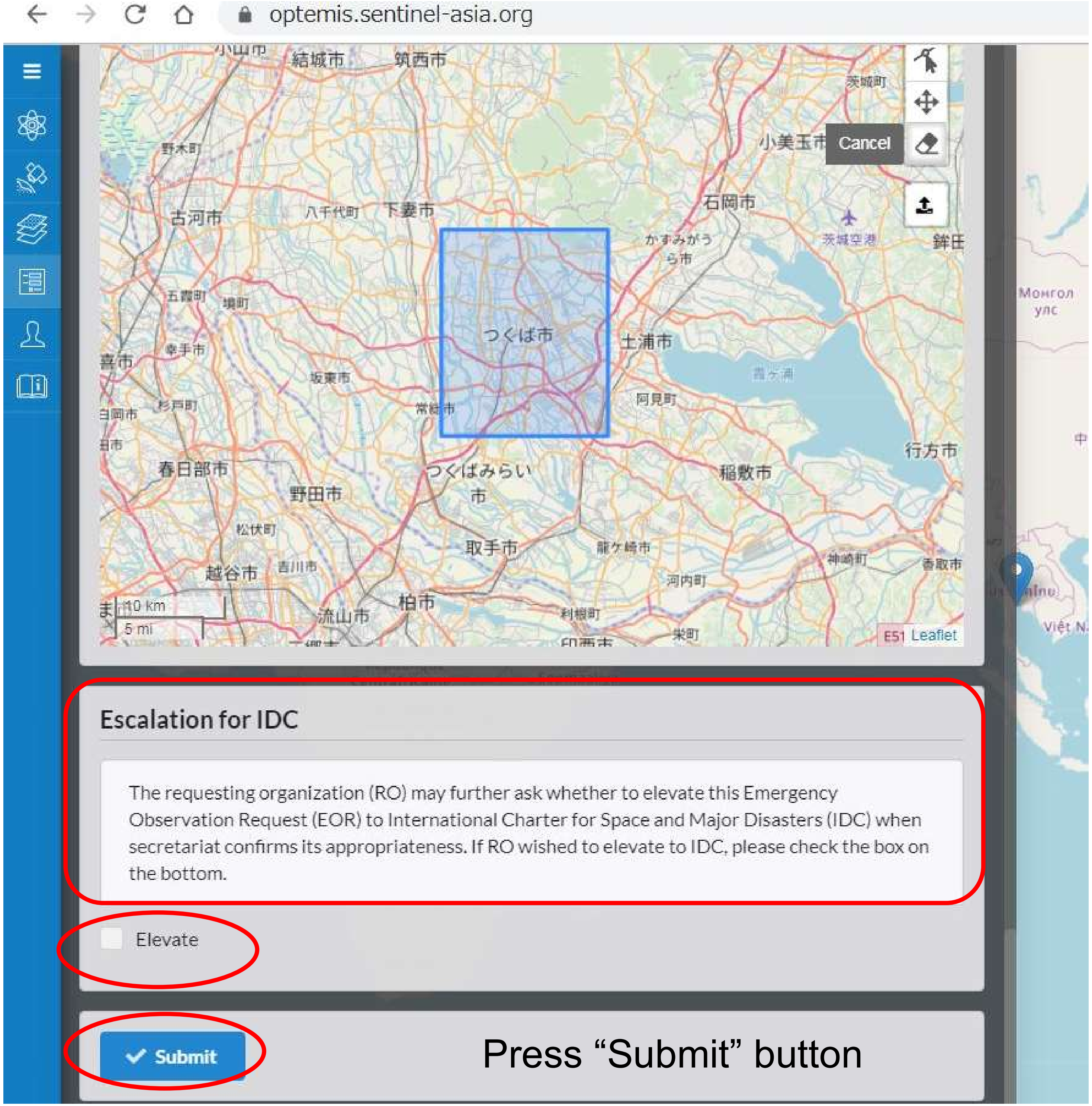
Longitude Northwest (DMS)
140 ° 0 ' 0 " E

Latitude Southeast (DMS)
36 ° 0 ' 0 " N

Longitude Southeast (DMS)
140 ° 10 ' 0 " E

+ Add to map

8.1.2 Fill in the EOR Form 5/5


optemis.sentinel-asia.org
Cancel
つくば市
土浦市
10 km
5 mi
Leaflet

Escalation for IDC

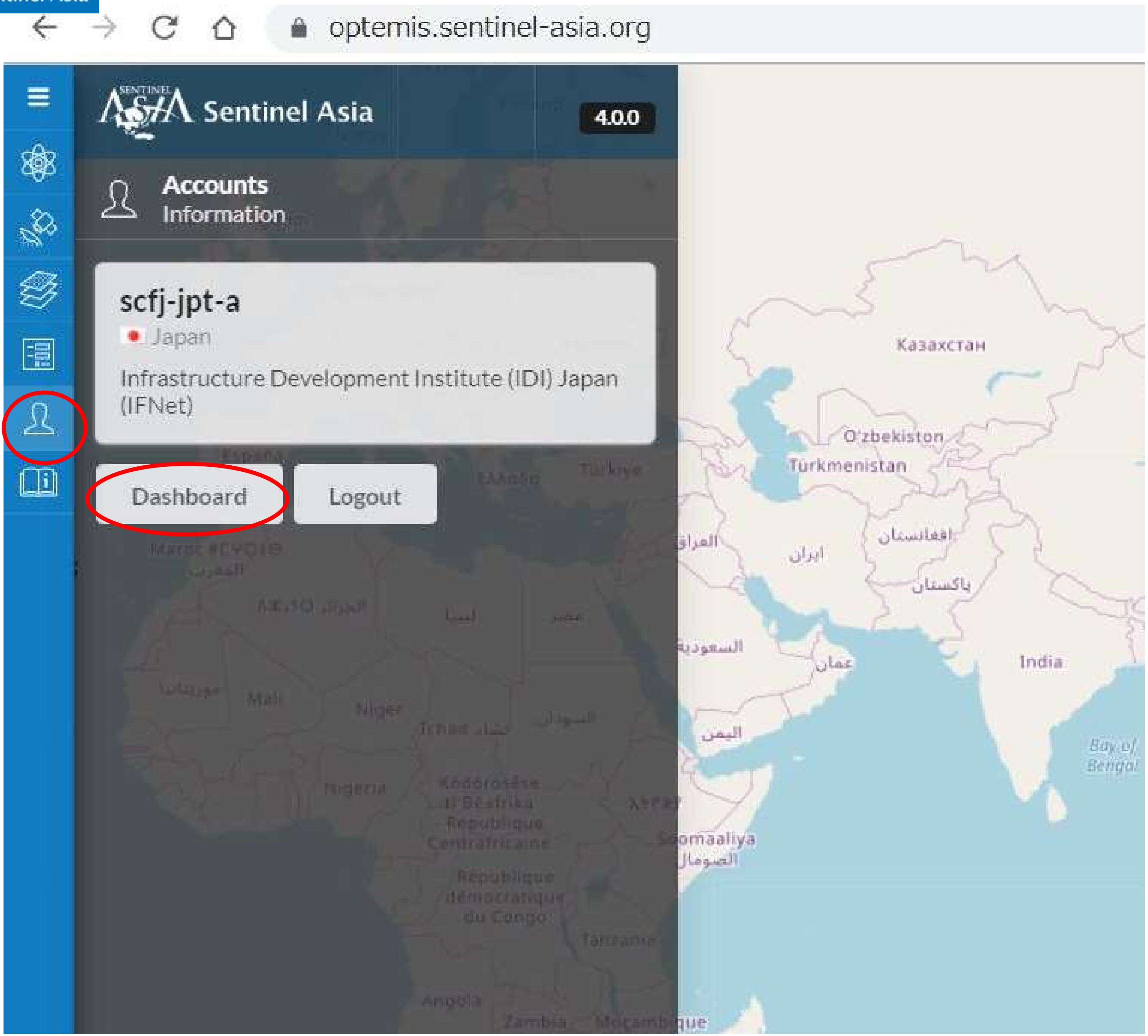
The requesting organization (RO) may further ask whether to elevate this Emergency Observation Request (EOR) to International Charter for Space and Major Disasters (IDC) when secretariat confirms its appropriateness. If RO wished to elevate to IDC, please check the box on the bottom.

☐ Elevate

✓ Submit

Press “Submit” button

8.3 Transition to Dashboard



optemis.sentinel-asia.org
Sentinel Asia
4.0.0
Accounts
Information

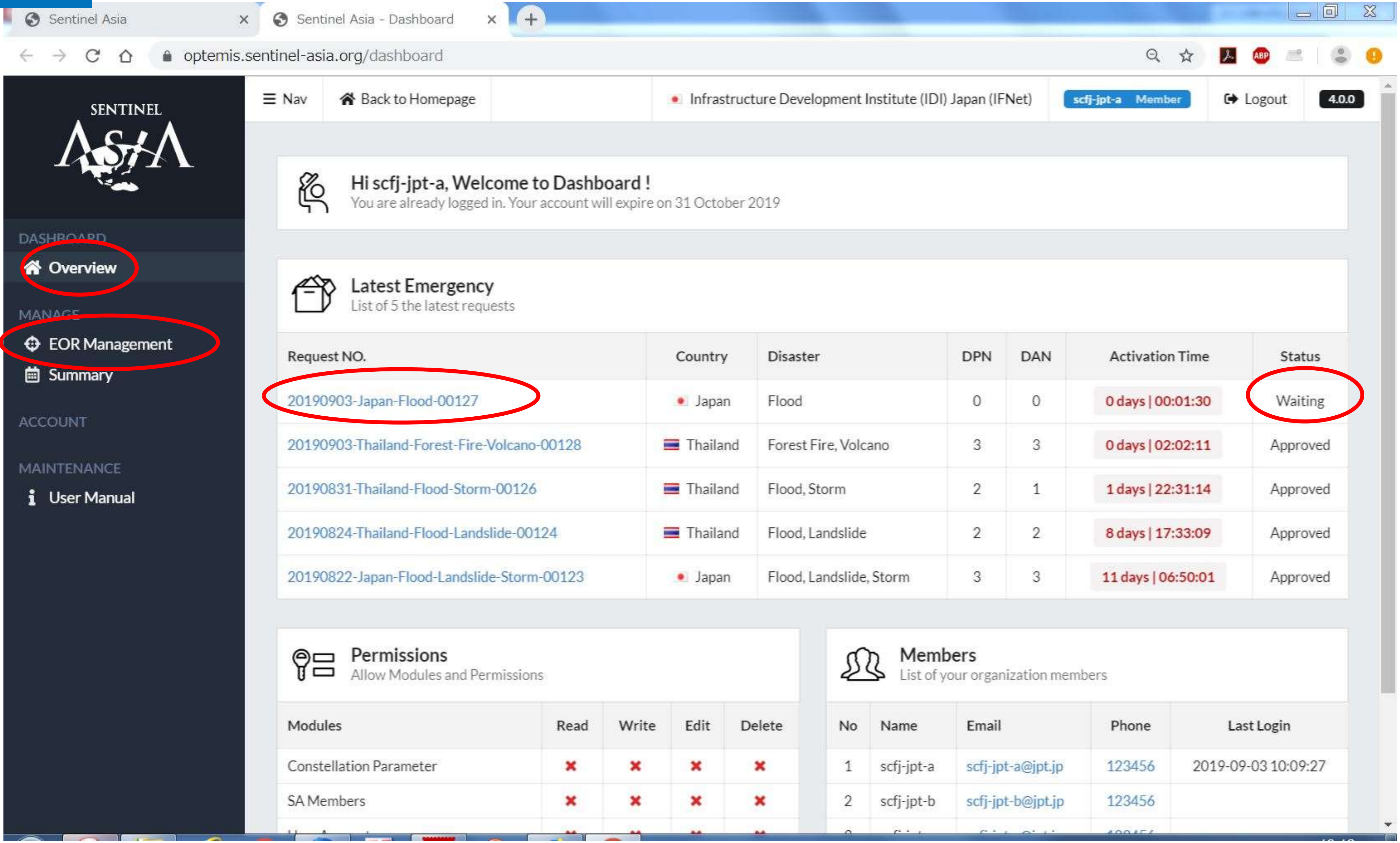
scfj-jpt-a

Japan

Infrastructure Development Institute (IDI) Japan (IFNet)

Dashboard
Logout
Казахстан
O'zbekiston
Türkmenistan
India
Bay of Bengal

8.3 Dashboard Overview


Sentinel Asia
Sentinel Asia - Dashboard
optemis.sentinel-asia.org/dashboard
SENTINEL ASIA
DASHBOARD
Overview
MANAGE
EOR Management
Summary
ACCOUNT
MAINTENANCE
User Manual
☰ Nav
Back to Homepage
Infrastructure Development Institute (IDI) Japan (IFNet)
scfj-jpt-a Member
Logout
4.0.0

Hi scfj-jpt-a, Welcome to Dashboard !
You are already logged in. Your account will expire on 31 October 2019

Latest Emergency
List of 5 the latest requests

Request NO.	Country	Disaster	DPN	DAN	Activation Time	Status
20190903-Japan-Flood-00127	Japan	Flood	0	0	0 days | 00:01:30	Waiting
20190903-Thailand-Forest-Fire-Volcano-00128	Thailand	Forest Fire, Volcano	3	3	0 days | 02:02:11	Approved
20190831-Thailand-Flood-Storm-00126	Thailand	Flood, Storm	2	1	1 days | 22:31:14	Approved
20190824-Thailand-Flood-Landslide-00124	Thailand	Flood, Landslide	2	2	8 days | 17:33:09	Approved
20190822-Japan-Flood-Landslide-Storm-00123	Japan	Flood, Landslide, Storm	3	3	11 days | 06:50:01	Approved

Permissions
Allow Modules and Permissions

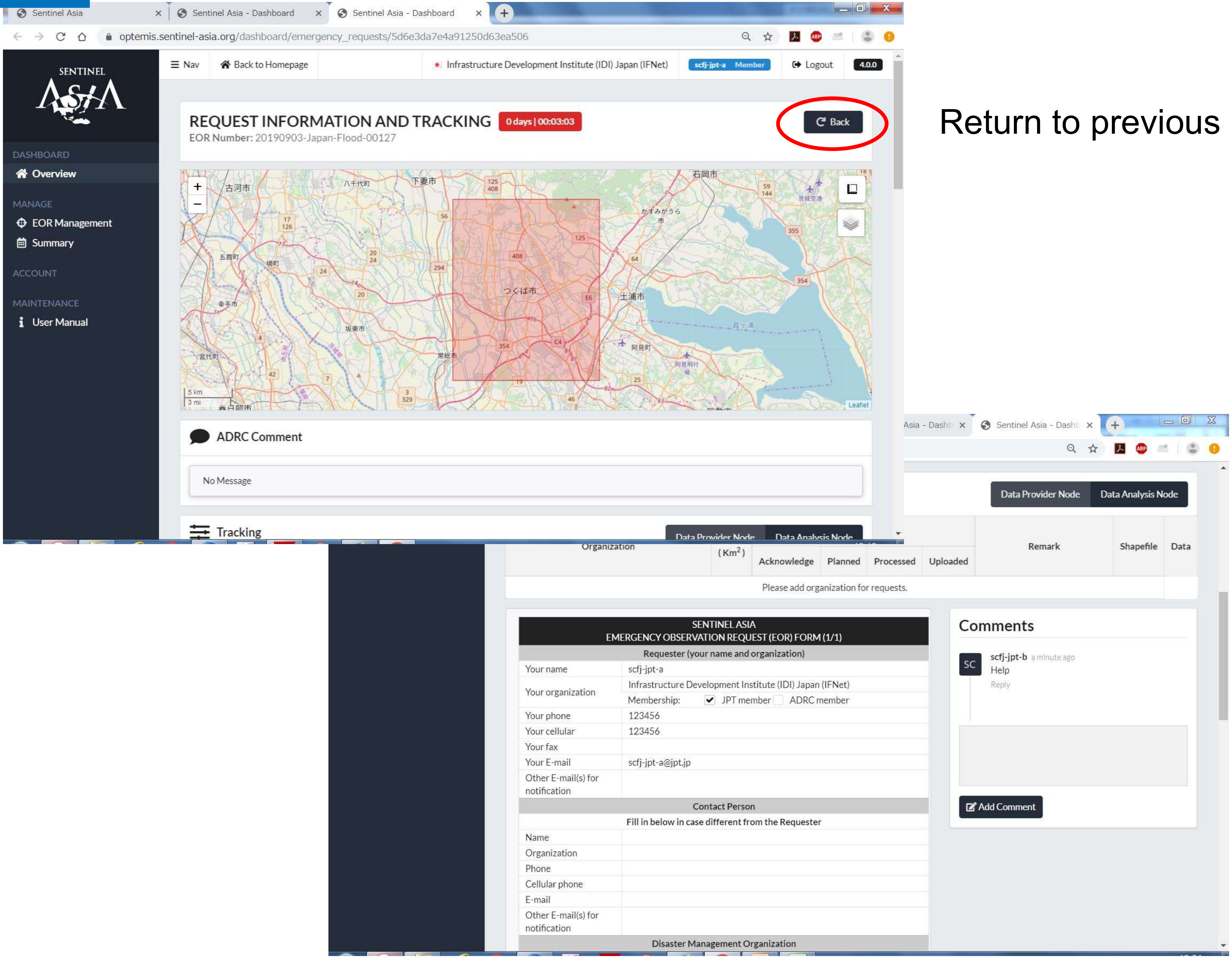
Modules	Read	Write	Edit	Delete
Constellation Parameter	✖	✖	✖	✖
SA Members	✖	✖	✖	✖

Members
List of your organization members

No	Name	Email	Phone	Last Login
1	scfj-jpt-a	scfj-jpt-a@jpt.jp	123456	2019-09-03 10:09:27
2	scfj-jpt-b	scfj-jpt-b@jpt.jp	123456	

Confirm EOR status on the Latest Emergency list
When the EOR is activated, the status changes from Waiting to Approved

8.4 Request Information and Tracking


Sentinel Asia
Sentinel Asia - Dashboard
Sentinel Asia - Dashboard
optemis.sentinel-asia.org/dashboard/emergency_requests/5d6e3da7e4a91250d63ea506
SENTINEL ASIA
DASHBOARD
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MANAGE
EOR Management
Summary
ACCOUNT
MAINTENANCE
User Manual
Nav
Back to Homepage
Infrastructure Development Institute (IDI) Japan (IFNet)
scfj-jpt-a Member
Logout
4.0.0
Back
Leaflet
Data Provider Node
Data Analysis Node

REQUEST INFORMATION AND TRACKING 0 days | 00:03:03

EOR Number: 20190903-Japan-Flood-00127

ADRC Comment

No Message

Tracking

Organization	(Km²)	Acknowledge	Planned	Processed	Uploaded	Remark	Shapefile	Data
Please add organization for requests.								

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

Requester (your name and organization)	
Your name	scfj-jpt-a
Your organization	Infrastructure Development Institute (IDI) Japan (IFNet) Membership: ☑ JPT member ☐ ADRC member
Your phone	123456
Your cellular	123456
Your fax	
Your E-mail	scfj-jpt-a@jpt.jp
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	

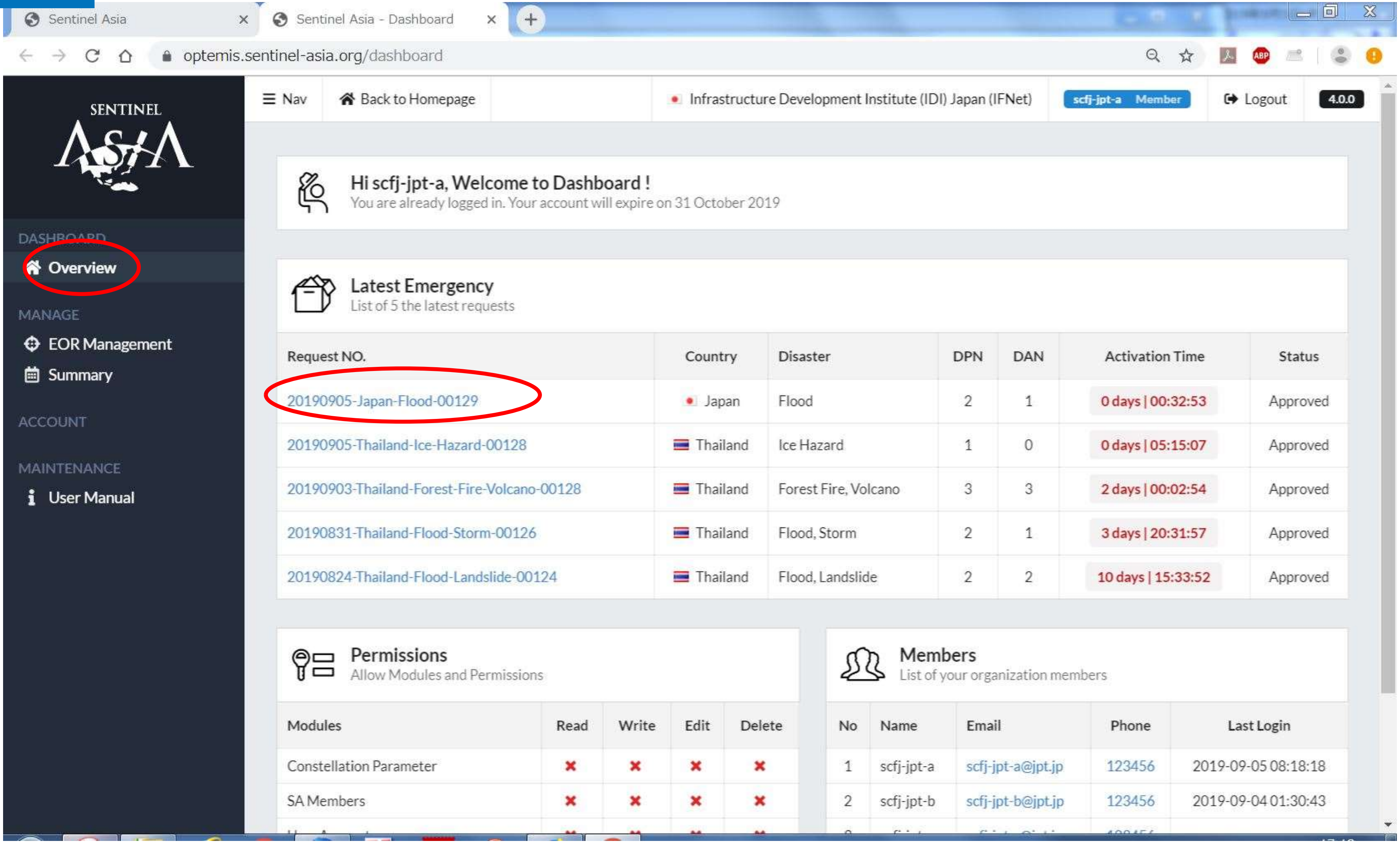
Comments

SC scfj-jpt-b a minute ago
Help
Reply

Add Comment

Return to previous

8.6 Get Analysis Product by Requester (JPT member)


Sentinel Asia
Sentinel Asia - Dashboard
optemis.sentinel-asia.org/dashboard
SENTINEL ASIA
DASHBOARD
Overview
MANAGE
EOR Management
Summary
ACCOUNT
MAINTENANCE
User Manual
≡ Nav
Back to Homepage
Infrastructure Development Institute (IDI) Japan (IFNet)
scfj-jpt-a Member
Logout
4.0.0

Hi scfj-jpt-a, Welcome to Dashboard !

You are already logged in. Your account will expire on 31 October 2019

Latest Emergency

List of 5 the latest requests

Request NO.	Country	Disaster	DPN	DAN	Activation Time	Status
20190905-Japan-Flood-00129	Japan	Flood	2	1	0 days | 00:32:53	Approved
20190905-Thailand-Ice-Hazard-00128	Thailand	Ice Hazard	1	0	0 days | 05:15:07	Approved
20190903-Thailand-Forest-Fire-Volcano-00128	Thailand	Forest Fire, Volcano	3	3	2 days | 00:02:54	Approved
20190831-Thailand-Flood-Storm-00126	Thailand	Flood, Storm	2	1	3 days | 20:31:57	Approved
20190824-Thailand-Flood-Landslide-00124	Thailand	Flood, Landslide	2	2	10 days | 15:33:52	Approved

Permissions

Allow Modules and Permissions

Modules	Read	Write	Edit	Delete
Constellation Parameter	✖	✖	✖	✖
SA Members	✖	✖	✖	✖

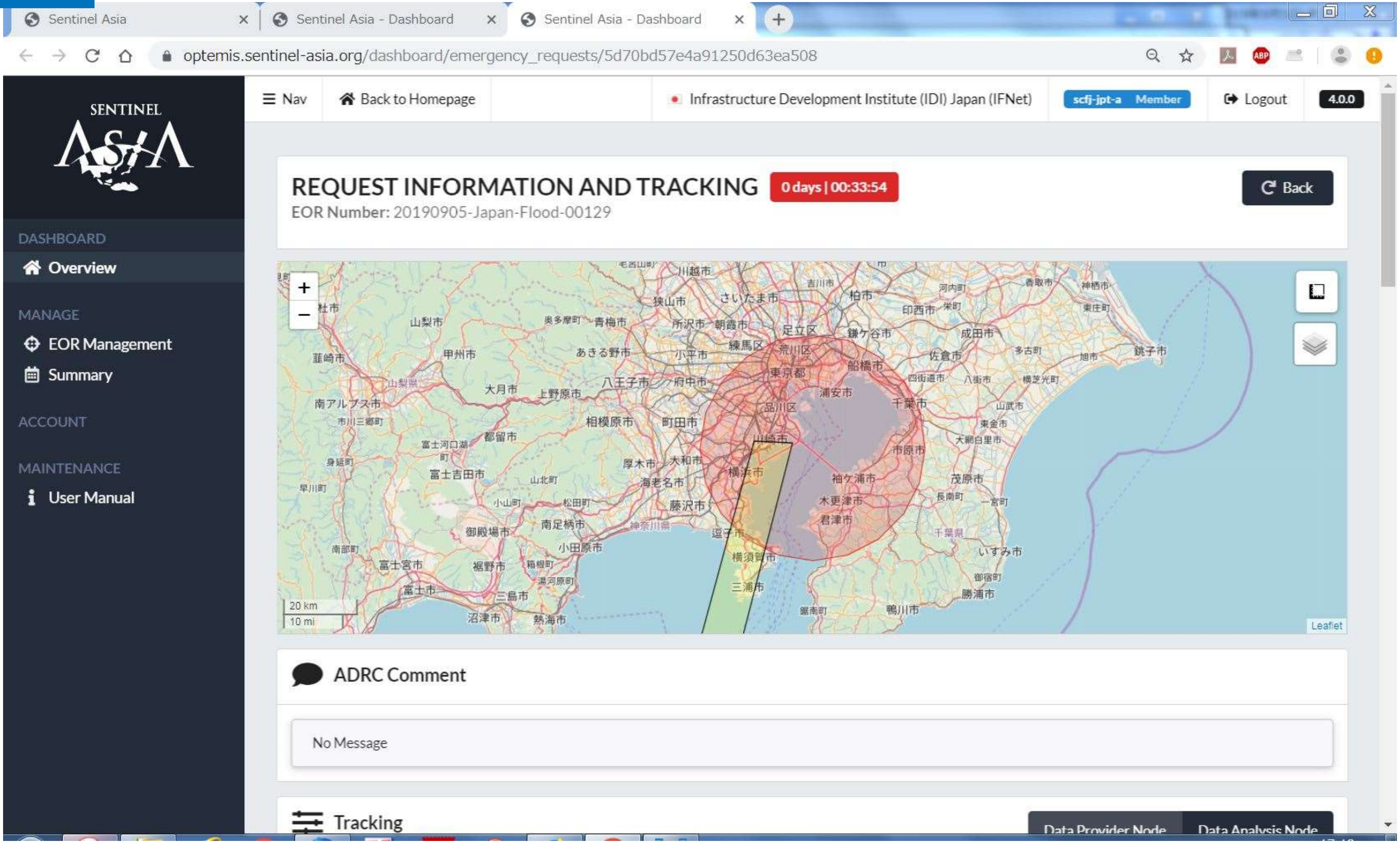
Members

List of your organization members

No	Name	Email	Phone	Last Login
1	scfj-jpt-a	scfj-jpt-a@jpt.jp	123456	2019-09-05 08:18:18
2	scfj-jpt-b	scfj-jpt-b@jpt.jp	123456	2019-09-04 01:30:43

Choose EOR from the Request No. list

8.6 Request Information and Tracking



Sentinel Asia
Sentinel Asia - Dashboard
Sentinel Asia - Dashboard
optemis.sentinel-asia.org/dashboard/emergency_requests/5d70bd57e4a91250d63ea508
SENTINEL ASIA
DASHBOARD
Overview
MANAGE
EOR Management
Summary
ACCOUNT
MAINTENANCE
User Manual
Nav
Back to Homepage
Infrastructure Development Institute (IDI) Japan (IFNet)
scfj-jpt-a Member
Logout
4.0.0
Back
20 km
10 mi
Leaflet
Data Provider Node
Data Analysis Node

REQUEST INFORMATION AND TRACKING 0 days | 00:33:54

EOR Number: 20190905-Japan-Flood-00129

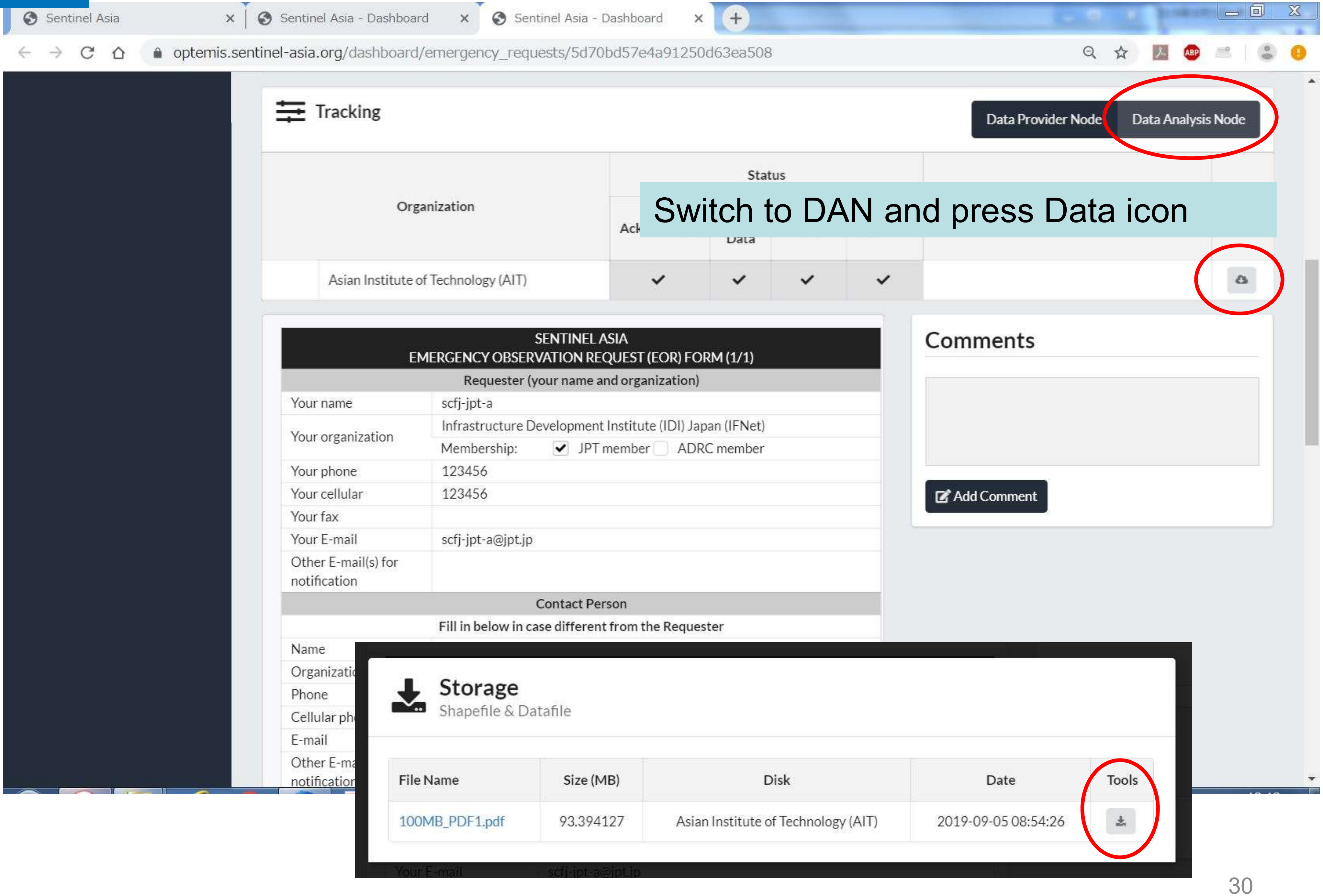
ADRC Comment

No Message

Tracking

Scroll down to next page

8.6 Request Information and Tracking


Sentinel Asia
Sentinel Asia - Dashboard
Sentinel Asia - Dashboard
optemis.sentinel-asia.org/dashboard/emergency_requests/5d70bd57e4a91250d63ea508
Tracking
Data Provider Node
Data Analysis Node
Status
Ack
Data
Comments
Add Comment
Storage
Shapefile & Datafile

Switch to DAN and press Data icon

Organization				
Asian Institute of Technology (AIT)	✓	✓	✓	✓

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

Requester (your name and organization)	
Your name	scfj-jpt-a
Your organization	Infrastructure Development Institute (IDI) Japan (IFNet) Membership: ☑ JPT member ☐ ADRC member
Your phone	123456
Your cellular	123456
Your fax	
Your E-mail	scfj-jpt-a@jpt.jp
Other E-mail(s) for notification	
Contact Person	
Fill in below in case different from the Requester	
Name	
Organizati	
Phone	
Cellular ph	
E-mail	
Other E-ma notification	

File Name	Size (MB)	Disk	Date	Tools
100MB_PDF1.pdf	93.394127	Asian Institute of Technology (AIT)	2019-09-05 08:54:26	⬇

Download the target data with the Tools icon

9. How to Apply for OPTEMIS Account

9.1 Information regarding OPTEMIS Account

Only the Data Provider Nodes(DPN), Data Analysis Nodes (DAN), and Joint Project Team (JPT) Members will be granted the access to OPTEMIS.

Secretariat understand that there are promotions, transfers, technical leave, etc. and operators in our organization change in time.

However, we cannot keep track of human affairs of each member organization. Therefore, we ask the Point of Contact (PoC) of each organization to maintain list of active operators.

9.1 Information regarding OPTEMIS Account

There are two steps needed to acquire new account.

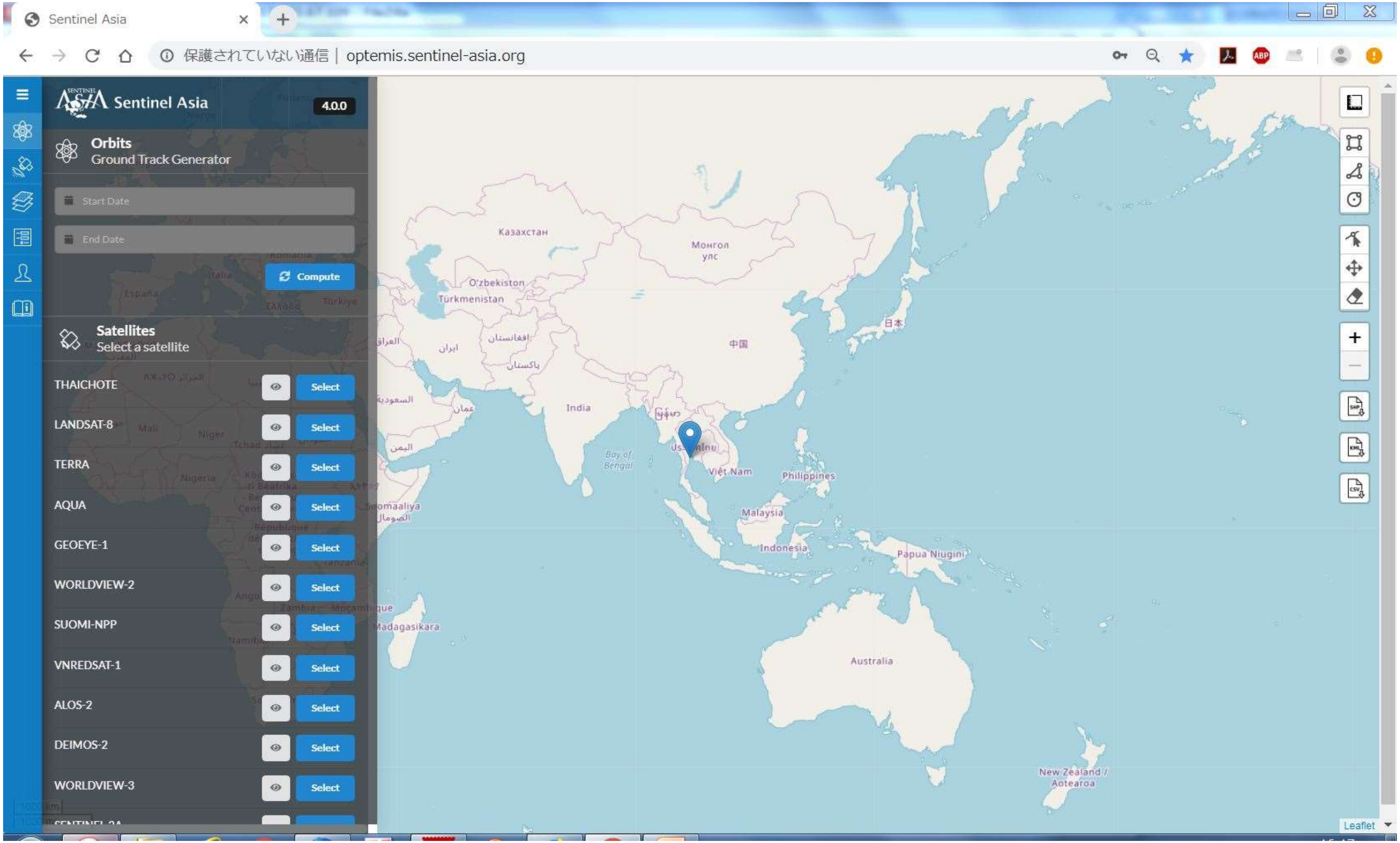
1) Potential user will register new account in OPTEMIS.
2) Please ask PoC to send application form to activate the newly registered account. (Secretariat will send the URL of application form to PoC)

This is to avoid unauthorized user to gain access to satellite imagery and valuable data provided by DPN and DAN's voluntary resources.

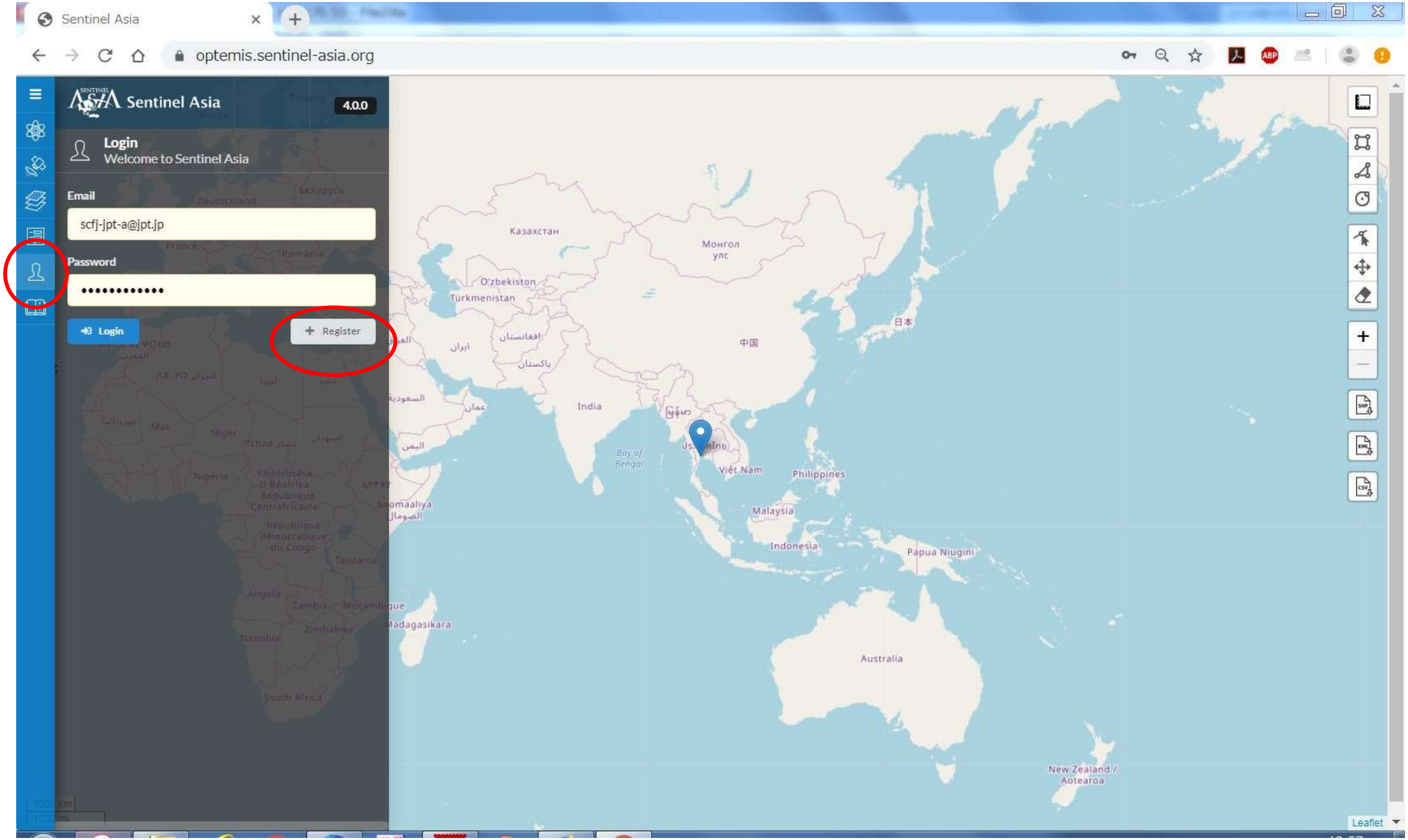
All the accounts expires March 31 of every year.
Secretariat will ask PoC, if the registered accounts are qualified for renewal.

9.2 Access OPTEMIS Top page

https://optemis.sentinel-asia.org/


Sentinel Asia
保護されていない通信 | optemis.sentinel-asia.org
Sentinel Asia
4.0.0
Orbits
Ground Track Generator
Start Date
End Date
Compute
Satellites
Select a satellite
THAICHOTE
LANDSAT-8
TERRA
AQUA
GEOEYE-1
WORLDVIEW-2
SUOMI-NPP
VNREDSAT-1
ALOS-2
DEIMOS-2
WORLDVIEW-3
Select
Казахстан
Монгол улс
O'zbekiston
Türkmenistan
中国
日本
India
Bay of Bengal
Việt Nam
Philippines
Malaysia
Indonesia
Papua Niugini
Australia
New Zealand / Aotearoa
Madagasikara
Leaflet

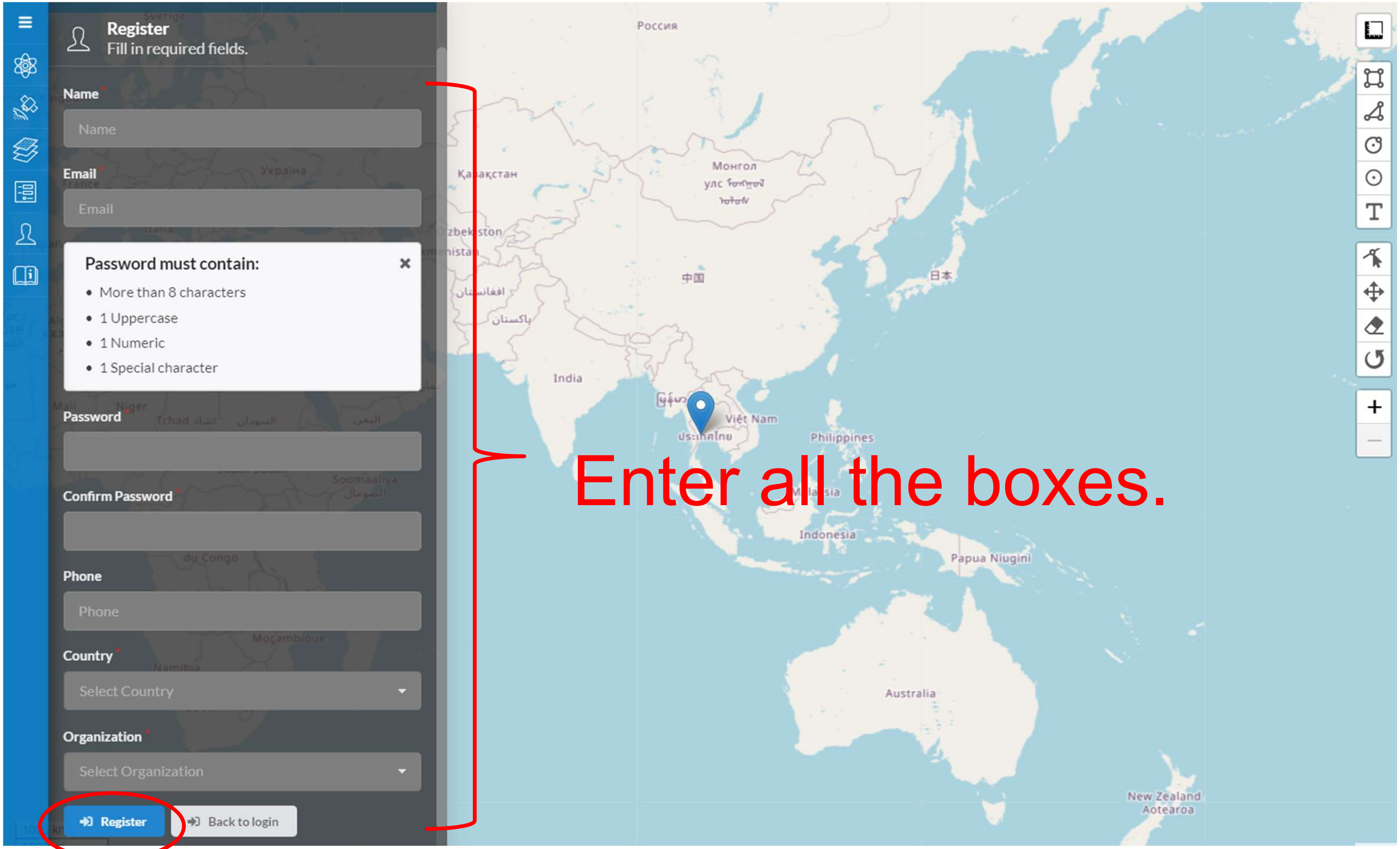
9.3 Push Register Button


Sentinel Asia
optemis.sentinel-asia.org
Sentinel Asia
4.0.0
Login
Welcome to Sentinel Asia
Login
Register
Leaflet

Email: scfj-jpt-a@jpt.jp

Password: ••••••••••••

9.4 Fill in the Form



Register

Fill in required fields.

Name *

Name

Email *

Email

Password must contain:

- More than 8 characters
- 1 Uppercase
- 1 Numeric
- 1 Special character

Password *

Confirm Password *

Phone

Phone

Country *

Select Country

Organization *

Select Organization

Register
Back to login
Россия
Қазақстан
Монгол
中国
日本
India
Việt Nam
Philippines
Malaysia
Indonesia
Papua Niugini
Australia
New Zealand
Aotearoa

Enter all the boxes.

Press Register

9.5 Ask PoC to send application form to activate new account from PoC

Secretariat will send URL of application form to PoC of your organization.

Please ask PoC to send application form for activation.

Secretariat will send a notice to the new user, when the account is activated.

Please send e-mail to z-sentinel.asiaml.jaxa.jp if you need information about PoC of your organization

9.6 Important Reminder:

all the accounts expires March 31 of every year. Secretariat will ask PoC, if the registered accounts are qualified for renewal.

When a user access OPTEMIS when the disaster happens, sometimes account is expired.

This happens when PoC fails to reply the renewal inquiry from the Secretariat.

Please ask PoC to reply renewal inquiry.

Thank you!

The Secretariat hope that EOR will help your Disaster Risk Reduction Activities.