

The Mohammed Bin Rashid Space Centre's contribution to Sentinel Asia

Sentinel Asia's Joint Project Team Meeting (JPTM2023)

17-18 September 2023

Jakarta, Indonesia

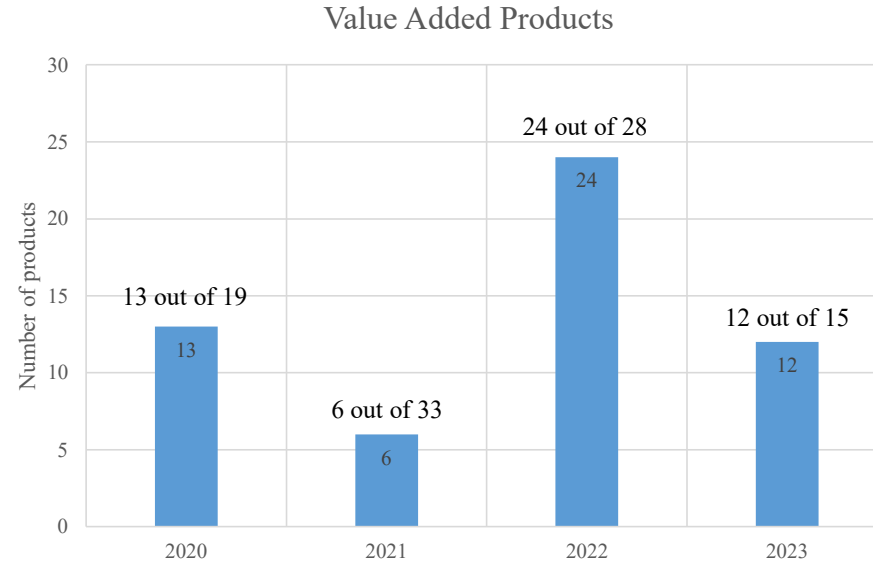
Satellite Image Requests 2023

#	Date of Request	Filename	Organization	Imaging Date	Country	Status
1	20230206	20230206-Turkey-Earthquake-00463	Sentinel Asia	14/02/2023	Turkey	Available
2	20230228	20230228-Philippines-Other-00465	Sentinel Asia	09/03/2023	Philippines	Available
3	20230608	20230608-Kazakhstan-Forest-Fire-00472	Sentinel Asia	24/06/2023	Kazakhstan	Available
4	20230713	20230713-India-Flood-Landslide-Storm-00473	Sentinel Asia		India	In progress
5	20230718	20230718-Vietnam-Flood-Landslide-Storm-00474	Sentinel Asia		Vietnam	in progress
6	20230720	20230720-Bhutan-Flood-00475	Sentinel Asia	11/08/2023	Bhutan	Cloudy
7	20230725	20230725-Philippines-Flood-Landslide-00476	Sentinel Asia		Philippines	In progress
8	20230805	20230805-Vietnam-Flood-Landslide-Storm-00477	Sentinel Asia	14/08/2023	Vietnam	Cloudy
9	20230816	20230816-Vietnam-Landslide-00478	Sentinel Asia		Vietnam	In progress
10	20230827	20230827-Tajikistan-Landslide-Other-00479	Sentinel Asia		Tajikistan	In progress

Value Added Products 2023

#	ID	Filename	Organization	Year	Country	Status
1	20230206	20230206-Turkey-Earthquake-00463	Sentinel Asia	2023	Turkey	Done
2	20230514	20230514-Myanmar (Burma)-Flood-Landslide-Storm-Other-00468	Sentinel Asia	2023	Myanmar	Done
3	20230514	20230514-Bangladesh-Storm-00469	Sentinel Asia	2023	Bangladesh	Done
4	20230527	20230527-Philippines-Flood-Landslide-00470	Sentinel Asia	2023	Philippines	Done
5	20230615	20230615-India-Storm-00471	Sentinel Asia	2023	India	Done
6	20230608	20230608-Kazakhstan-Forest-Fire-00472	Sentinel Asia	2023	Kazakhstan	Done
7	20230713	20230713-India-Flood-Landslide-Storm-00473	Sentinel Asia	2023	India	Done
8	20230718	20230718-Vietnam-Flood-Landslide-Storm-00474	Sentinel Asia	2023	Vietnam	Done
9	20230720	20230720-Bhutan-Flood-00475	Sentinel Asia	2023	Bhutan	Done
10	20230725	20230725-Philippines-Flood-Landslide-00476	Sentinel Asia	2023	Philippines	Done
11	20230805	20230805-Vietnam-Flood-Landslide-Storm-00477	Sentinel Asia	2023	Vietnam	Done
12	20230816	20230816-Vietnam-Landslide-00478	Sentinel Asia	2023	Vietnam	Done
13	20230827	20230827-Tajikistan-Landslide-Other-00479	Sentinel Asia	2023	Tajikistan	Done

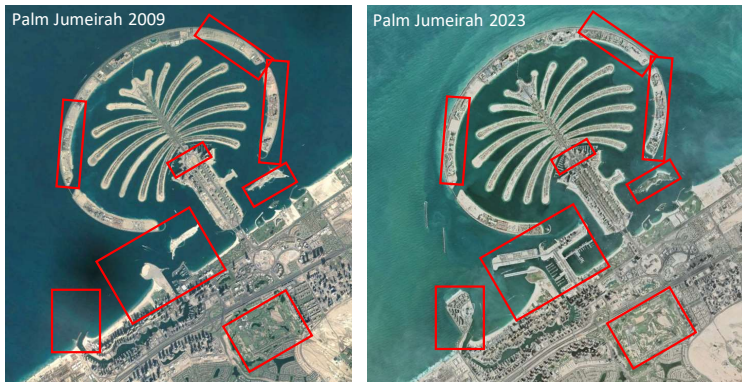
Disaster Management Requests 2020–2023



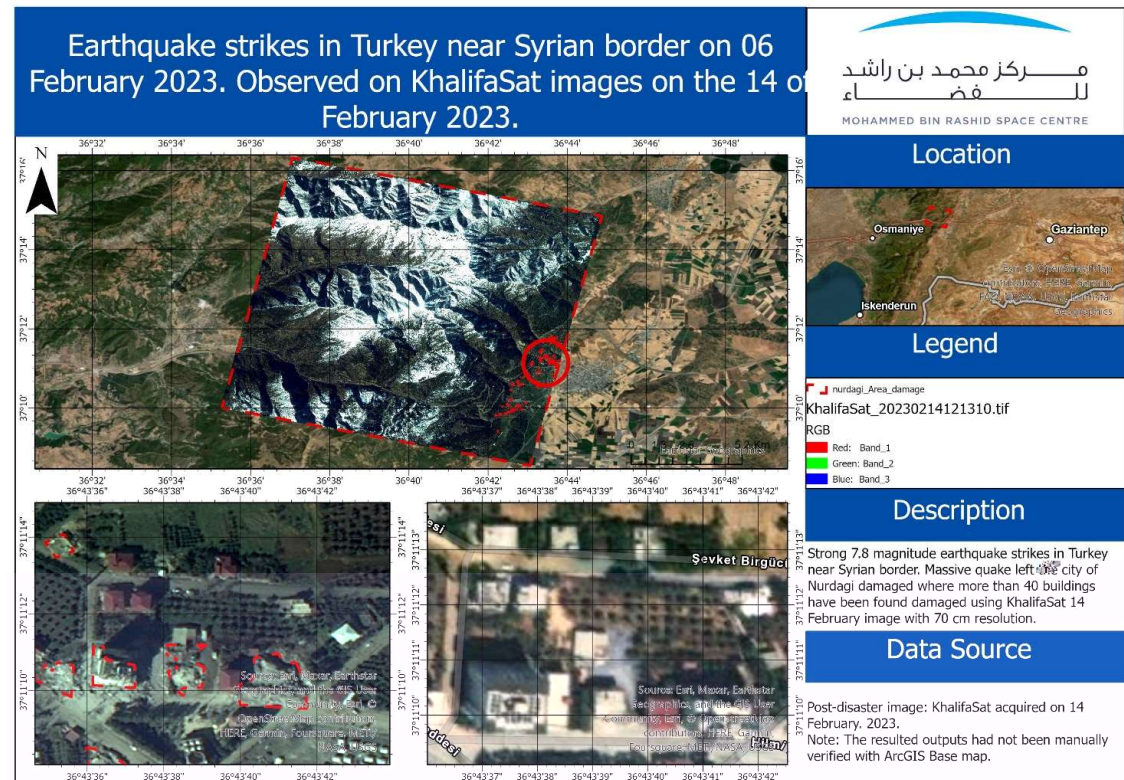
20230206-Turkey-Earthquake-00463

- **Data used:** KhalifaSat Optical Image, ESRI basemap
- **Methodology:** Visual change analysis with post-event and pre-event images

Change Analysis Example of Project Development in Dubai

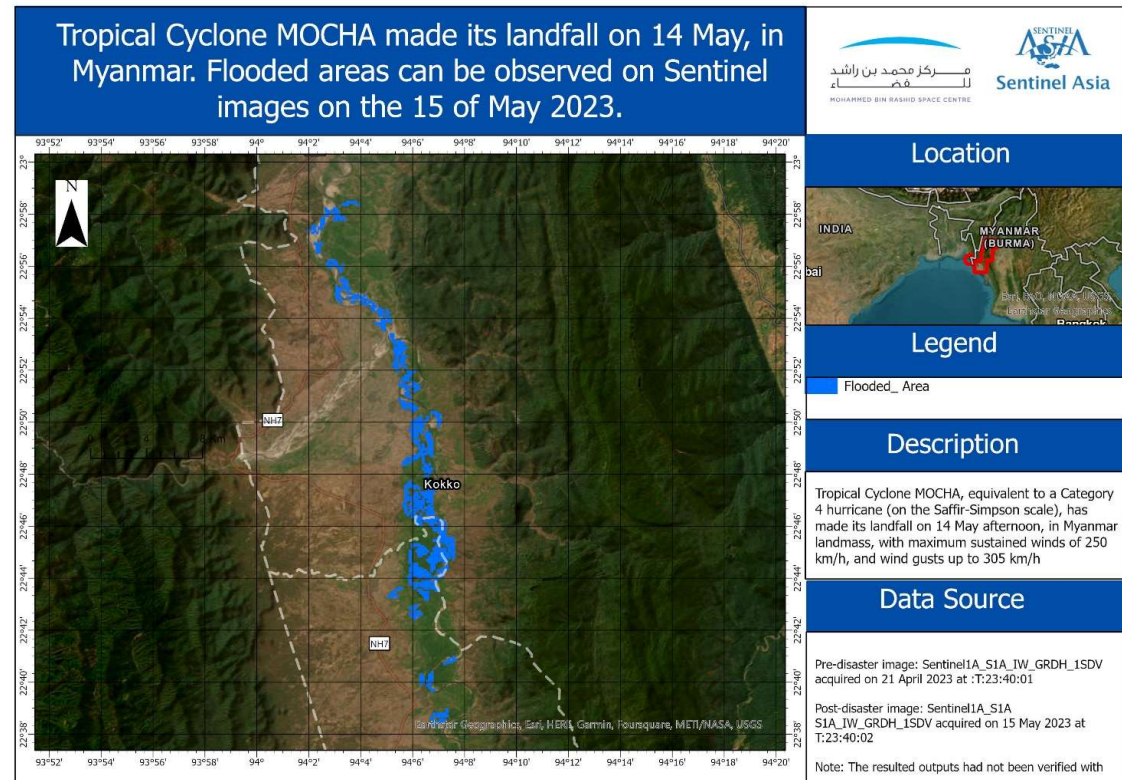
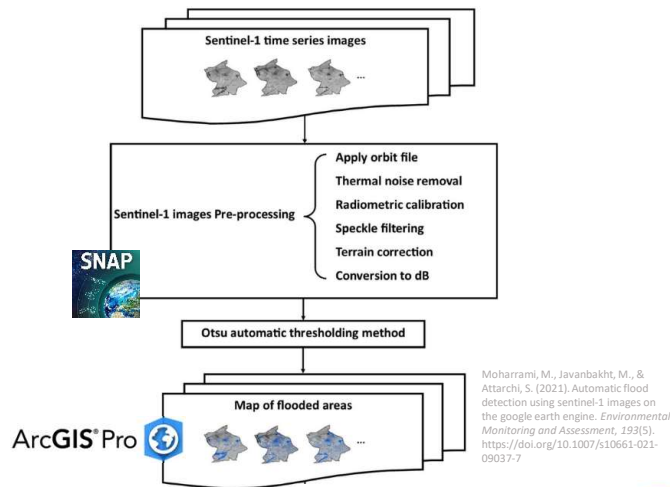


21 September 2023



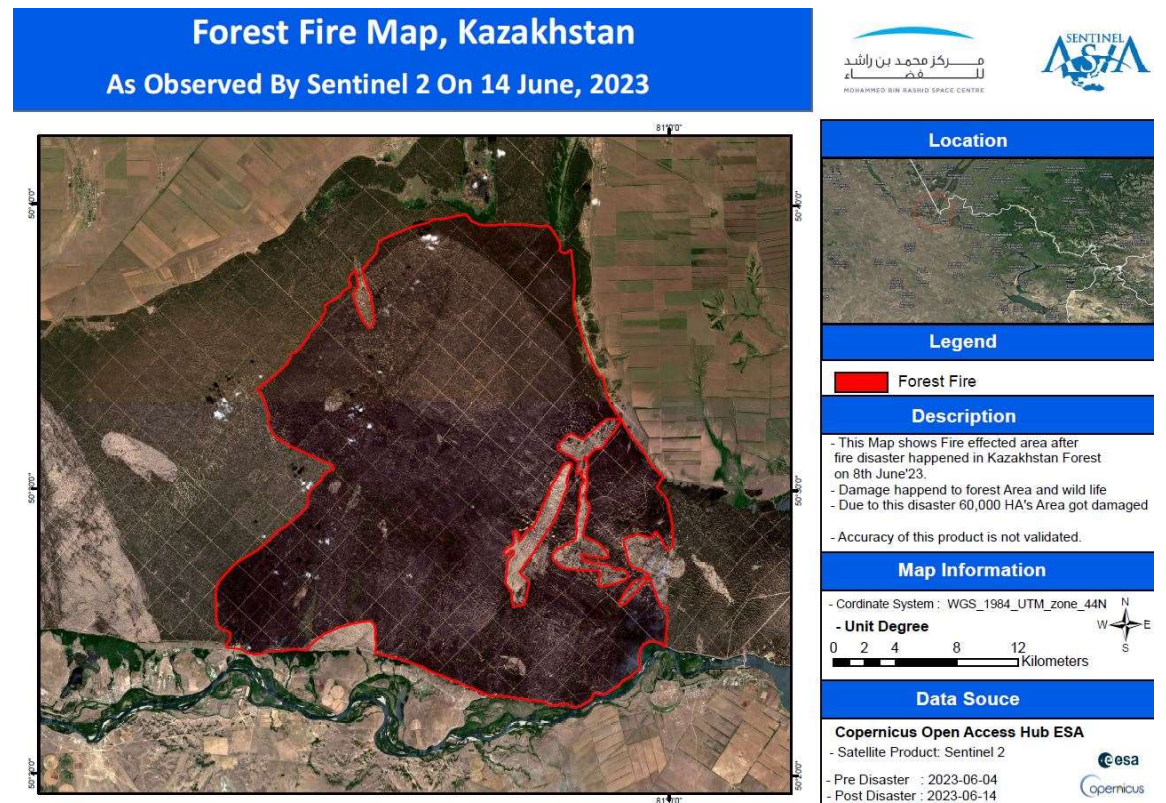
20230514-Myanmar (Burma)-Flood-Landslide-Storm-Other-00468

- **Data used:** Sentinel-1 SAR data for pre and post disaster event
- **Methodology:** Threshold method using pixel value (backscatter) to separate flood and non-flood areas



20230608-Kazakhstan-Forest-Fire-00472

- **Data used:** Sentinel-2 Optical data for pre and post disaster event
- **Methodology:** Spectral and visual analysis of the fire damaged areas comparing to pre-disaster image



Thank You!