

**** July 2026 News from Sentinel Asia Project Office ****

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Topics:

1. [News] Emergency Observation of Disasters (as of 27 July)
2. JAXA began providing ALOS-4 data to Sentinel Asia
3. How to send an Emergency Observation Request
4. Using Sentinel Asia Operation System, OPTEMIS

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1. [News] Emergency Observation of Disasters (as of 27 July)

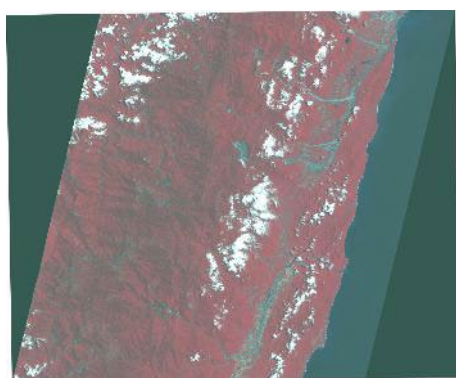
(1) Barrier Lake Concerns Due to Landslide in Eastern Taiwan on 22 June, 2026

Following the Matai'an Creek flood in Hualien, Taiwan, in 2025, the Forestry and Nature Conservation Agency, which has been monitoring the surrounding area, discovered a new 3-hectare barrier lake located about 7 km north of the site of last year's disaster, Formosa News reported on 22 June. Based on preliminary findings, the agency notified the Hualien County Government, the Fenglin Township Office, and the Wanrung Township Office of the situation.
<https://english.ftvnews.com.tw/news/2026622W01EA>

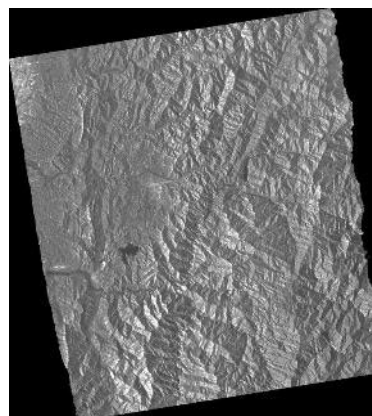
TASA made an Emergency Observation Request (EOR) to Sentinel Asia on 23 June 2026. Among Data Provider Nodes (DPNs), ISRO, JAXA, KGS, and MBRSC provided data. Among Data Analysis Nodes (DANs), AIT, EOS, JAXA, and MBRSC provided their value-added products (VAPs).

Information on the latest response by Sentinel Asia is available at the link below.

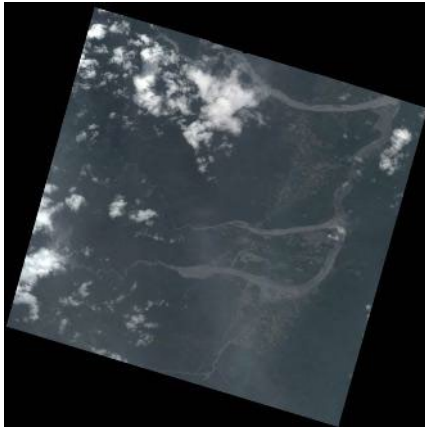
<https://sentinel-asia.org/EO/2026/article20260622TW.html>



Post-disaster satellite image (Resourcesat-2a)
provided by ISRO



Post-disaster satellite image (ALOS-4)
provided by JAXA



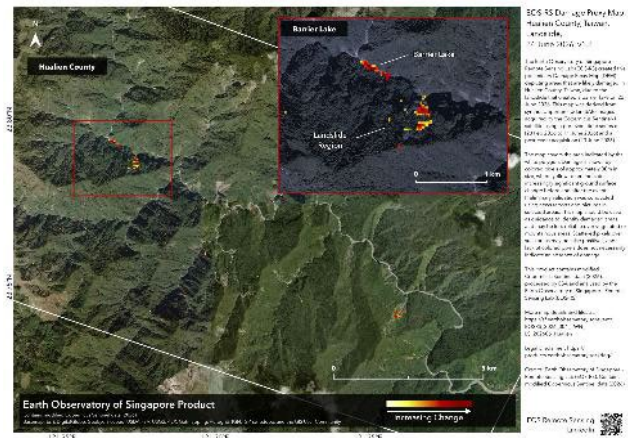
Post-disaster satellite image (KazEOSat-1)
provided by KGS



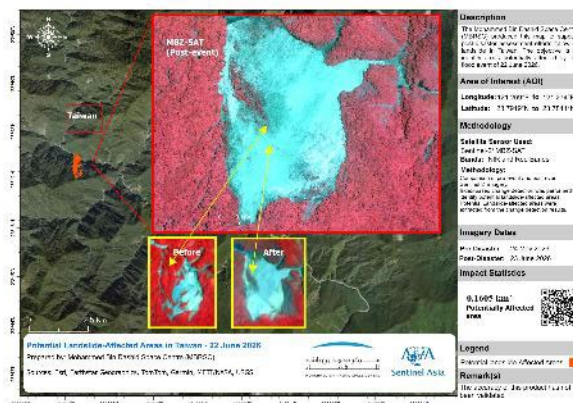
Post-disaster satellite image (MBZ-SAT)
provided by MBRSC



Value-Added Product by AIT



Value-Added Product by EOS



Value-Added Product by MBRSC

(2) Flood in Almaty Region, Kazakhstan, on 01 July, 2026 (GLIDE Number FL-2026-000100-KAZ)

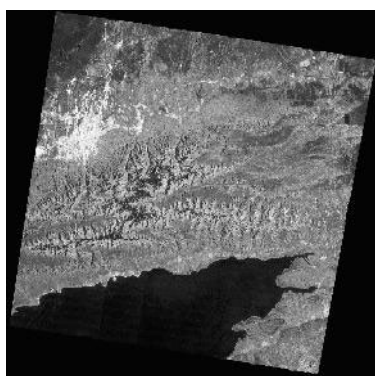
Due to heavy rain in Kazakhstan, which continued for several days, rivers overflowed in several districts of the Almaty region and the highest rise in water levels was recorded in the Turgun, Aksay, Uzynkargaly and Talgar rivers. A local state of emergency was declared in some areas, Orda.kz reported.

<https://en.orda.kz/eroded-roads-and-evacuations-almaty-region-deals-with-flood-aftermath-10841/>

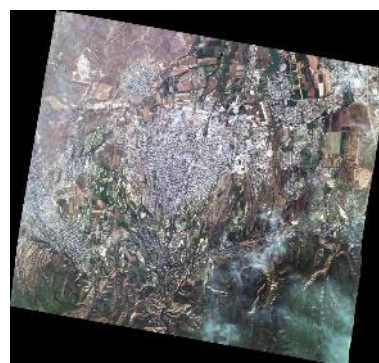
JSC National Company Kazakhstan Gharysh Sapary (KGS) made an EOR to Sentinel Asia on 4 July 2026. Among DPNs, ISRO and TASA provided data. Among DANs, EOS and MBRSC provided their VAPs.

Information on the latest response by Sentinel Asia is available at the link below.

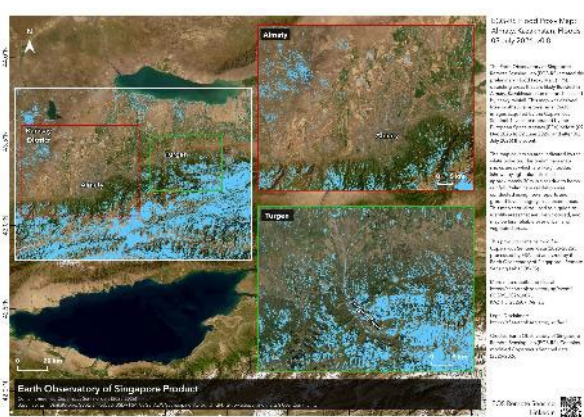
<https://sentinel-asia.org/EO/2026/article20260701KZ.html>



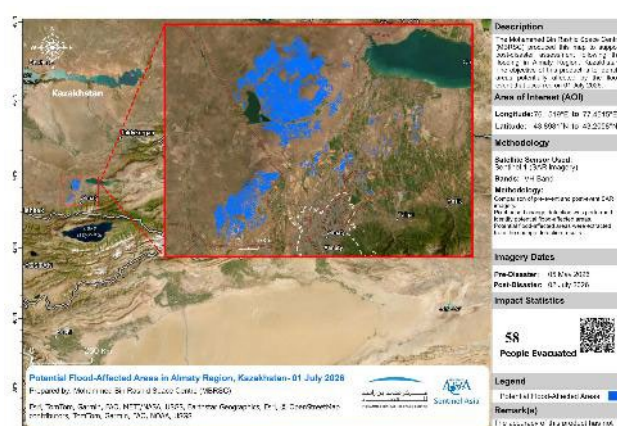
Post-disaster satellite image (EOS-04) provided by ISRO



Post-disaster satellite image (FORMOSAT-8A) provided by TASA



Value-Added Product by EOS



Value-Added Product by MBRSC

(3) Flood Concerns Due to Intense Rainfall in Northern Vietnam on 03 July, 2026 (GLIDE Number TC-2026-000098-VNM)

According to ReliefWeb, following landfall on 5 July 2026, Typhoon Maysak weakened into a

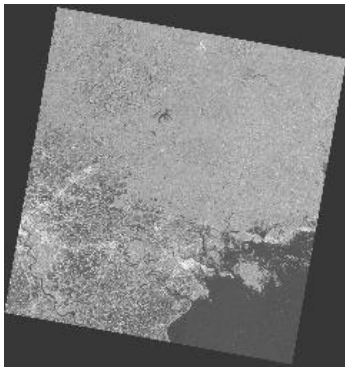
tropical depression but continued to bring strong winds, heavy rainfall, and localised flooding across northeastern Vietnam.

<https://reliefweb.int/report/viet-nam/vnm-flood-07-2026-typhoon-no-1-maysak-and-floods-2-2026-07-07>

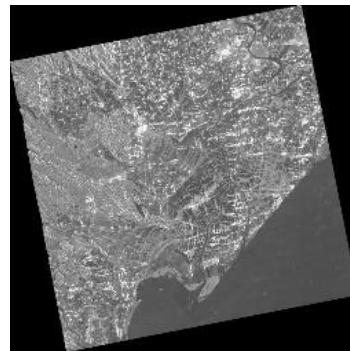
The Ministry of Agriculture and Environment (MAE) made an EOR to Sentinel Asia on 4 July 2026. Among DPNs, ISRO, JAXA, and TASA provided data. Among DANs, AIT, EOS, JAXA, and MBRSC provided their VAPs.

Information on the latest response by Sentinel Asia is available at the link below.

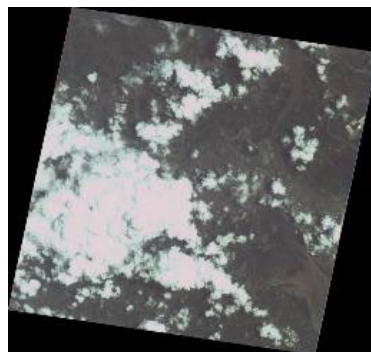
<https://sentinel-asia.org/EO/2026/article20260703VN.html>



Post-disaster satellite image (EOS-04) provided by ISRO



Post-disaster satellite image (ALOS-4) provided by JAXA



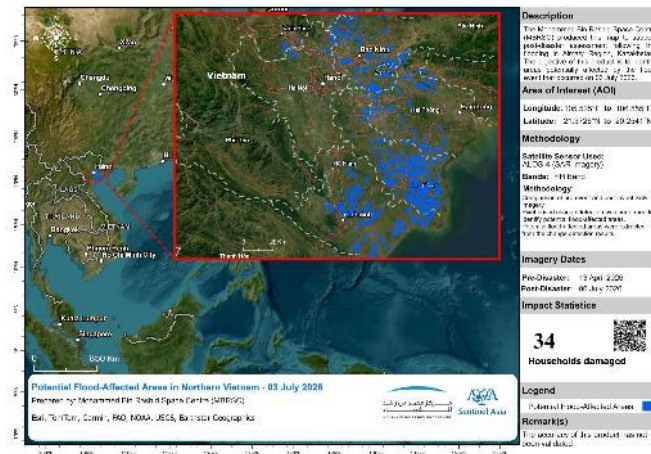
Post-disaster satellite image (FORMOSAT-5) provided by TASA



Value-Added Product by AIT



Value-Added Product by EOS



Value-Added Product by MBRSC

(4) Mudflow Descended in Grigoryevsky Gorge, Kyrgyzstan, on 04 July, 2026 (GLIDE Number OT-2026-000103-KGZ)

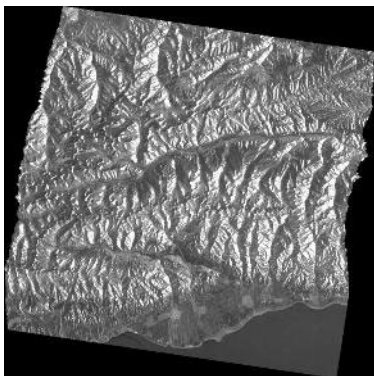
In the first week of July 2026, a mudflow occurred in Grigoryevsky Gorge in eastern Kyrgyzstan near Issyk-Kul Lake, according to Sputnik.

<https://ru.sputnik.kg/20260704/moschnyy-sel-v-grigorevskom-uschele--video-s-drona-podrobnosti-1102239656.html>

CAIAG made an EOR to Sentinel Asia on 6 July 2026. Among DPNs, JAXA and TASA provided data. Among DANs, AIT and TASA provided their VAPs.

Information on the latest response by Sentinel Asia is available at the link below.

<https://sentinel-asia.org/EO/2026/article20260704KG.html>



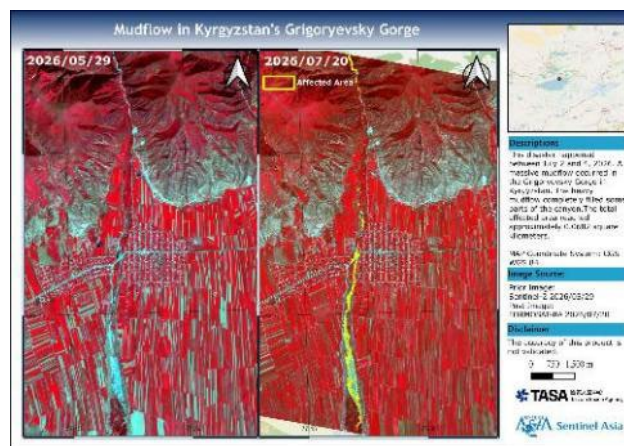
Post-disaster satellite image (ALOS-4) provided by JAXA



Post-disaster satellite image (FORMOSAT-8A) provided by TASA



Value-Added Product by AIT



Value-Added Product by TASA

(5) Landslide in Jalal-Abad Region, Kyrgyzstan on 04 July, 2026 (GLIDE Number LS-2026-000104-KGZ)

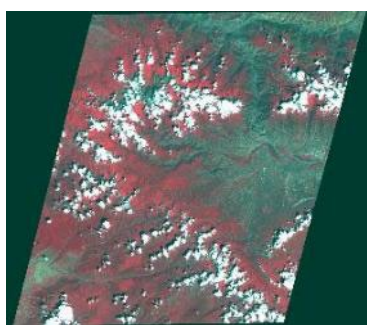
On 4 July, a mudslide blocked a highway in the Jalal-Abad region in Kyrgyzstan, which was caused by rainy weather, Kaktus media reported.

https://kaktus.media/doc/549204_na_alternativnoy_doroge_sever_ug_soshel_sel_video.html

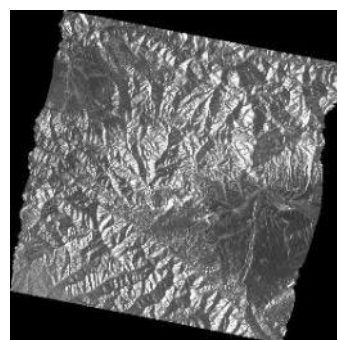
CAIAG made an EOR to Sentinel Asia on 6 July 2026. Among DPNs, ISRO, JAXA, and TASA provided data. Among DANs, MBRSC provided its VAP.

Information on the latest response by Sentinel Asia is available at the link below.

<https://sentinel-asia.org/EO/2026/article20260704KG-2.html>



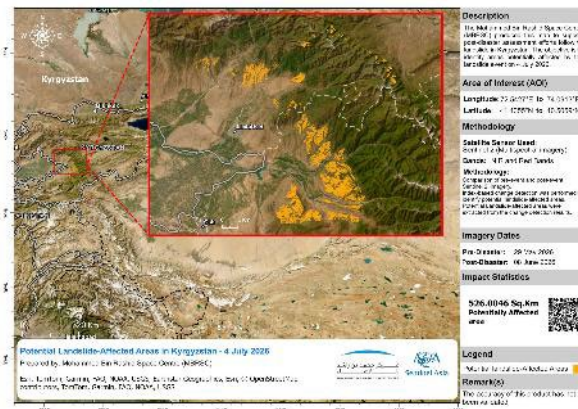
Post-disaster satellite image (Resourcesat-2A) provided by ISRO



Post-disaster satellite image (ALOS-4) provided by JAXA



Post-disaster satellite image (FORMOSAT-8A) provided by TASA



Value-Added Product by MBRSC

(6) Flood and Landslide in Mindanao, Philippines on 08 July, 2026 (GLIDE Number LS-2026-000099-PHL)

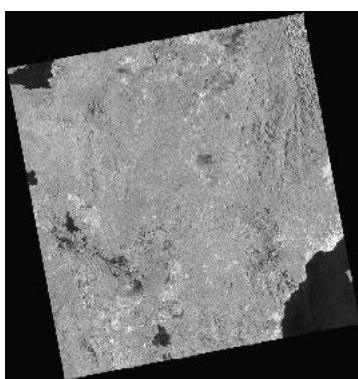
According to inquirer.net, Typhoon Inday (international name: Bavi) entered the Philippine Area of Responsibility (PAR) on July 8. It brought strong winds and heavy rainfall to the country, triggering flooding and landslides in Mindanao. As of 11 July, five people had been reported dead and six were missing.

<https://newsinfo.inquirer.net/2261746/lanao-del-sur-landslide-death-toll-rises-to-6>

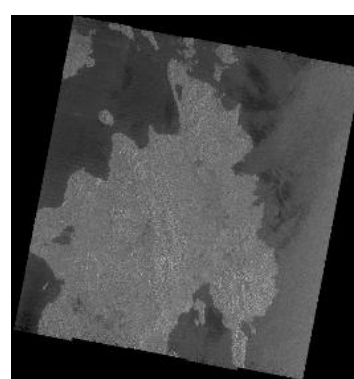
The Philippine Space Agency (PhilSA) made an EOR to Sentinel Asia on 11 June 2026. This EOR was escalated to the International Disasters Charter. PhilSA assumed the role of Project Manager for this Charter activation. Among DPNs, ISRO, JAXA, KGS, and TASA provided data. Among DANs, AIT, EOS, MBRSC, and PhilSA provided their value-added products (VAPs).

Information on the latest response by Sentinel Asia is available at the link below.

<https://sentinel-asia.org/EO/2026/article20260708PH.html>



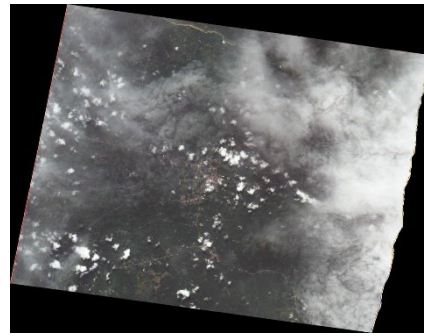
Post-disaster satellite image (EOS-04) provided by ISRO



Post-disaster satellite image (ALOS-2) provided by JAXA



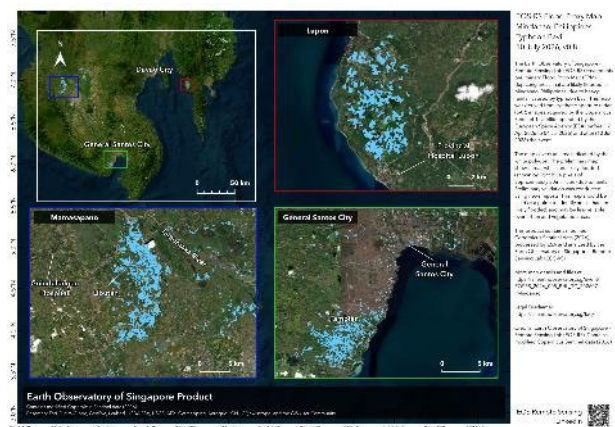
Post-disaster satellite image (KazEOSat-1)
provided by KGS



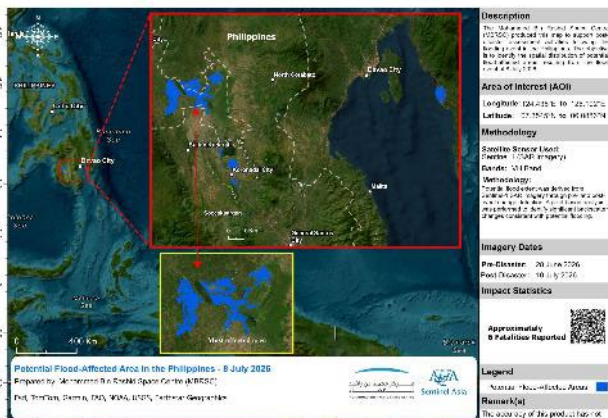
Post-disaster satellite image (FORMOSAT-5)
provided by TASA



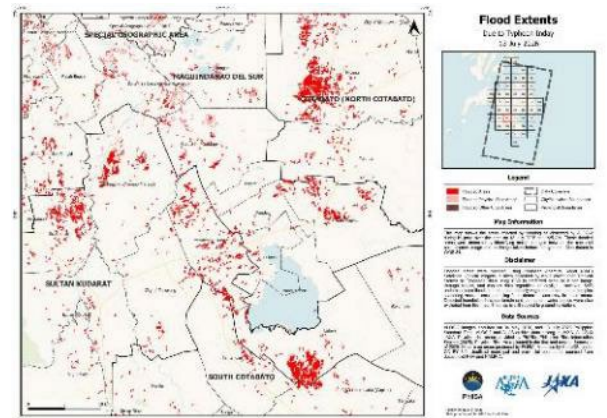
Value-Added Product by AIT



Value-Added Product by EOS



Value-Added Product by MBRSC



Value-Added Product by PhilSA

(7) Flood and Mudflow in Ayni District, Tajikistan on 11 July, 2026 (GLIDE Number FL-2026-000111-TJK)

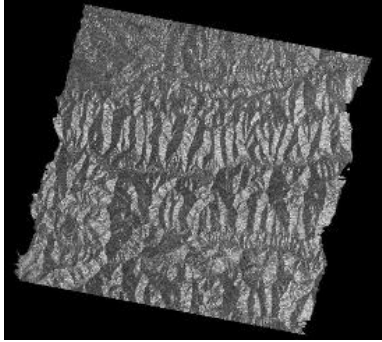
On 11 July 2026, following intense rainfall, flash floods and mudflows affected villages in Tajikistan, with mudflows affecting Ayni District in western Tajikistan, causing significant damage to residential houses, public infrastructure, road networks, water supply systems, agricultural land, and private property, ReliefWeb reported.

<https://reliefweb.int/report/tajikistan/tjk-flood-07-2026-flood-and-mudflow-ayni-district-2026-07-12>

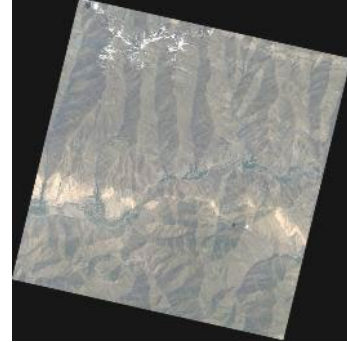
CAIAG made an EOR to Sentinel Asia on 13 July 2026. Among DPNs, JAXA, KGS, and TASA provided data. Among DANs, JAXA and MBRSC provided their VAPs.

Information on the latest response by Sentinel Asia is available at the link below.

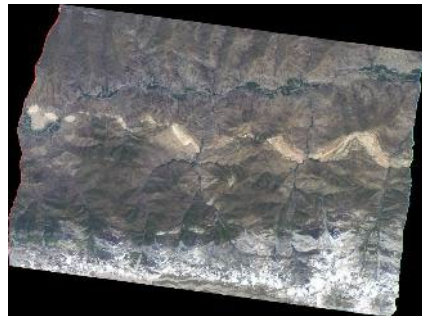
<https://sentinel-asia.org/EO/2026/article20260711TJ.html>



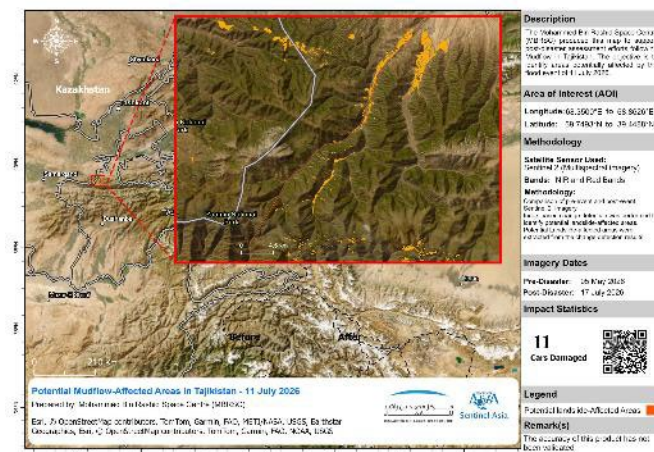
Post-disaster satellite image (ALOS-2) provided by JAXA



Post-disaster satellite image (KazEOSat-1) provided by KGS



Post-disaster satellite image (FORMOSAT-5) provided by TASA



Value-Added Product by MBRSC

(8) Flood in Nookan District, Kyrgyzstan on 13 July, 2026 (GLIDE Number FL-2026-000114-KGZ)

Open KG reported that in early morning on 14 July, due to heavy rains, mudflows occurred in

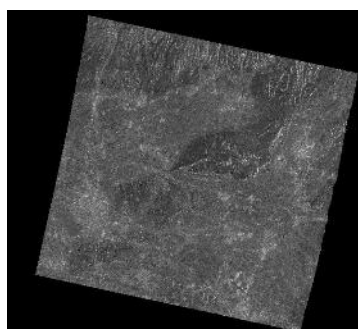
the Nookan district, Kyrgyzstan, flooding several residential houses and social facilities. The mudflows affected the yards of 466 residential houses. Water flooded 76 houses and also entered the basements of three residential buildings.

<https://open.kg/en/news/incidents/109826-v-nookenskom-rajone-za-odnu-noch-zatopilo-bolee-460-domov.html>

The Ministry of Emergency Situations of the Kyrgyz Republic (MES) made an EOR to Sentinel Asia on 14 July 2026. It was their first EOR. Among DPNs, JAXA provided data. Among DANs, JAXA provided its VAPs.

Information on the latest response by Sentinel Asia is available at the link below.

<https://sentinel-asia.org/EO/2026/article20260713KG.html>



Post-disaster satellite image (ALOS-2) provided by JAXA

(9) Wildfire in Akmola Region, Kazakhstan on 14 July, 2026 (GLIDE Number [WF-2026-000116-KAZ](#))

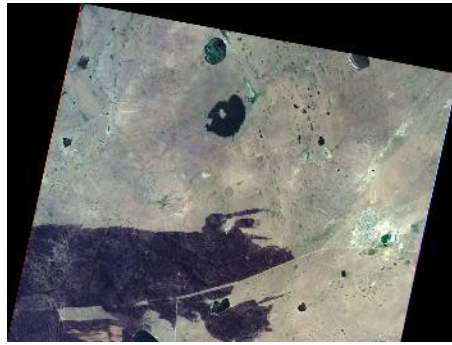
According to Tengri news, a massive wildfire occurred near the village of Bogenbay, located approximately 40 kilometers from Stepnogorsk, Kazakhstan, on 14 July. Thick smoke from the blaze was visible from dozens of kilometers away.

https://en.tengrinews.kz/kazakhstan_news/nothing-to-breathe-in-stepnogorsk-10-wildfires-occurred-in-272264/

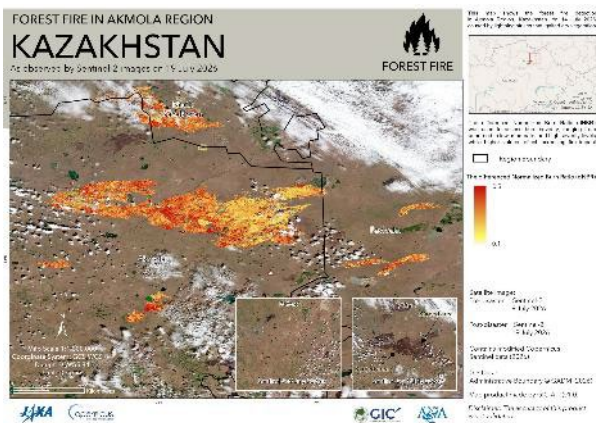
CAIAG made an EOR to Sentinel Asia on 16 July 2026. Among DPNs, TASA provided data. Among DANs, AIT and TASA provided their VAPs.

Information on the latest response by Sentinel Asia is available at the link below.

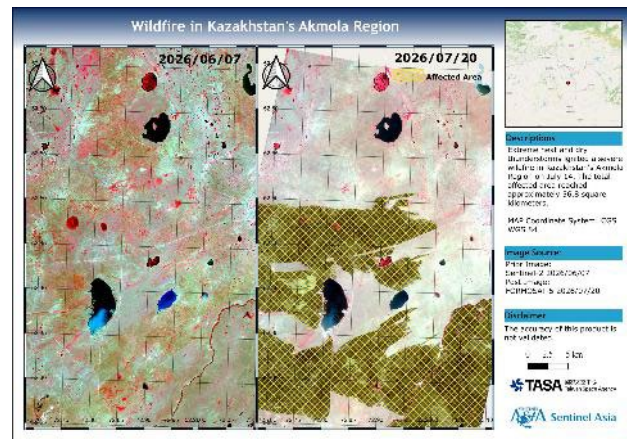
<https://sentinel-asia.org/EO/2026/article20260714KZ.html>



Post-disaster satellite image (FORMOSAT-5)
provided by TASA



Value-Added Product by AIT



Value-Added Product by TASA

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2. JAXA began providing ALOS-4 data to Sentinel Asia

The Japan Aerospace Exploration Agency (JAXA) has begun providing data from the Advanced Land Observing Satellite-4 (ALOS-4) to the Sentinel Asia initiative. ALOS-4 is equipped with the Phased Array type L-band Synthetic Aperture Radar-3 (PALSAR-3), enabling it to capture high-resolution imagery day and night, regardless of cloud cover. Like ALOS-2, ALOS-4 supports the rapid assessment of areas affected by earthquakes, floods, landslides, volcanic eruptions, and other natural disasters. Building on the legacy of ALOS-2, ALOS-4 offers wider observation coverage.

For further information, please visit JAXA's website.

https://www.eorc.jaxa.jp/ALOS/en/alos-4/a4_about_e.htm

Table 1: Specifications of ALOS-4

Launch Date	July 1, 2024, 12:06:42 (JST) by the third H3 Launch Vehicle (H3 F3; Flight No. 3)
Orbit	Same orbit as ALOS-2 - Sun-synchronous sub-recurrent orbit - Altitude: 628 km - Inclination angle: 97.9 degrees - Local sun time at descending: 12:00 ± 15 min. - Revisit time: 14 day (15-3/14 rev/day)
Lifetime	7 years
Size	X 10.0m × Y 20.0m × Z 6.4m
Satellite Mass	Approx. 3,000 kg
Downlink	Direct Transmission: 1.8/3.6 Gbps (Ka-band) Optical Inter-orbit Communications: 1.8 Gbps
Mission Instruments	Phased Array type L-band Synthetic Aperture Radar-3 (PALSAR-3) SPace based AIS Experiment 3 (SPAISE3)

Table2: Comparison ALOS-4 with ALOS-2

Resolution	ALOS-2	ALOS-4
Stripmap mode (Resolution 3 m, 6 m, 10 m)	50 km, 70 km	100 km–200 km
ScanSAR mode (Resolution 25 m)	350 km, 490 km	700 km
Spotlight mode (Resolution 1 m × 3 m)	25 km × 25 km	35 km × 35 km

