Sentinel Vision SED-908 23 July 2021



Torrential rain causes multiple dam failures in China

Sentinel-2 MSI acquired on 25 June 2021 at 02:45:49 UTC

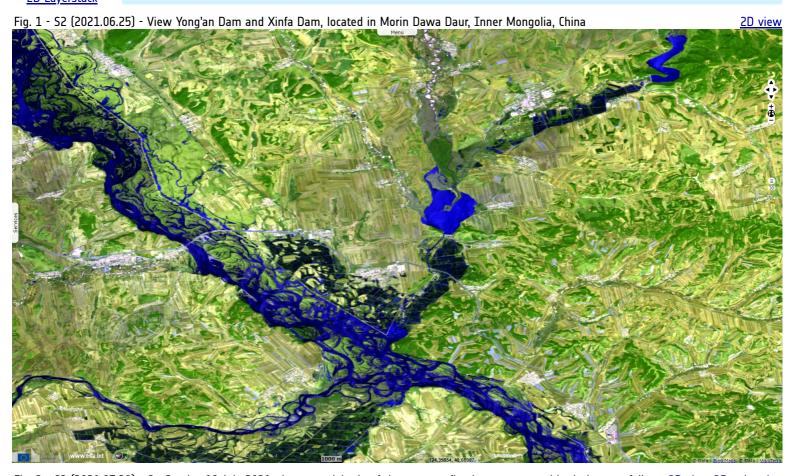
Sentinel-1 CSAR IW acquired on 06 July 2021 at 21:53:17 UTC

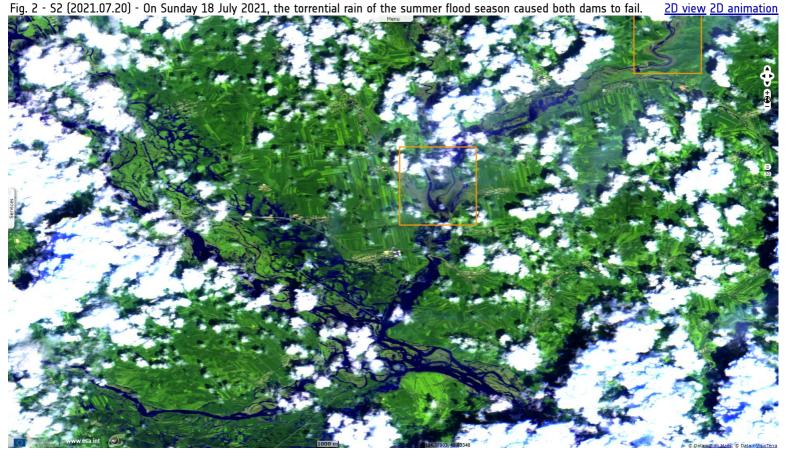
Sentinel-1 CSAR IW acquired on 18 July 2021 at 21:53:18 UTC

Sentinel-2 MSI acquired on 20 July 2021 at 02:45:51 UTC

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Keyword(s): Climate change, precipitations, rain, dams, reservoir lakes, hydropower, infrastructure, urban planning, China





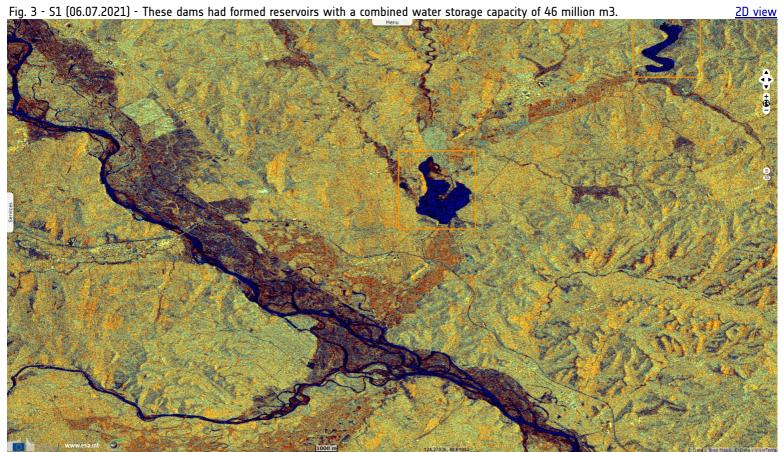
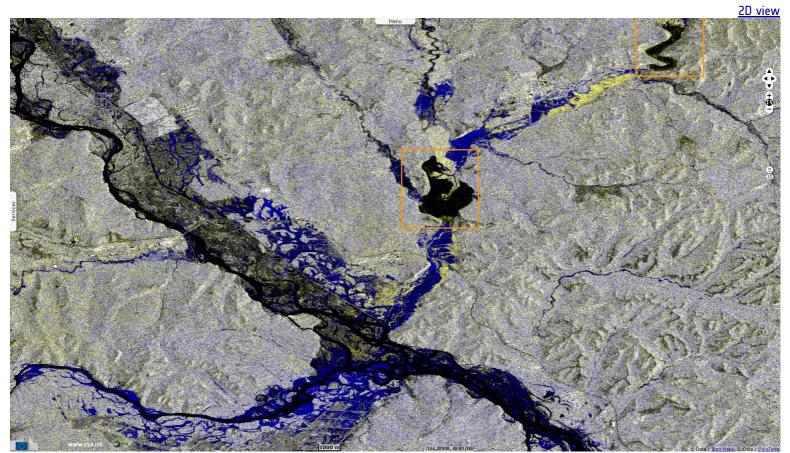


Fig. 4 - S1 (18.07.2021) - At centre, Xinfa dam (downstream) is not as empty as it is on the Sentinel-2 image acquired two days later. 2D view 2D animation

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Fig. 5 - S1 (06 & 18.07.2021) - The collapse of Yong'an dam upstream likely released a catastrophic volume of water that overtopped Xinfa dam downstream.



16 660 people were affected; 218 km² of farmland was flooded; 22 bridges, 124 culverts, and 15.6 kilometres of highway were destroyed.... Casualties are unknown. Exceptional rainfalls on the more urbanized province of Hunan two days later caused another dam failure and largely breached another which may cause a worse toll.

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