Sentinel Vision
SED-332
19 October 2018

3D Layerstack

Flash flood near Aude river, France

Sentinel-2 MSI acquired on **05 October 2018** at 10:40:21 UTC
Sentinel-1 CSAR IW acquired on **10 October 2018** at 05:59:55 UTC
Sentinel-1 CSAR IW acquired on **16 October 2018** at 06:00:51 UTC
Sentinel-1 CSAR IW acquired on **17 October 2018** at 05:51:52 UTC

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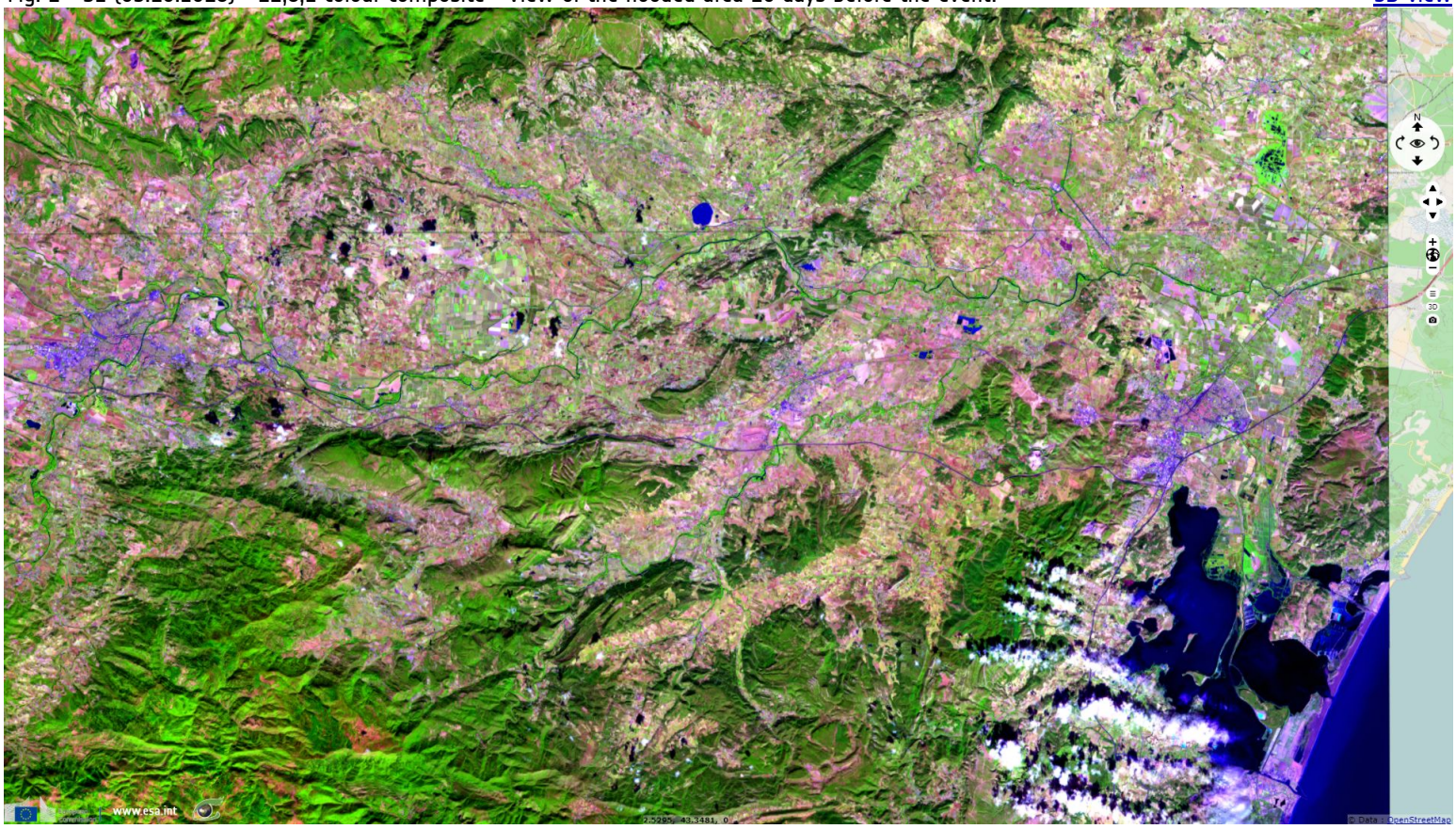
Keyword(s): Emergency, natural disaster, coastal, climate, land, river, flooding, rain, precipitations, France, Mediterranean Sea

Fig. 1 - S2 (05.10.2018) - 11,8,2 colour composite - View of the flooded area 10 days before the event. 3D view



A cold drop formed over the Mediterranean Sea, it was pushed against the 1200m high Montagne Noire producing orographic precipitations.

Fig. 2 - S1 (10.10.2018) - vv,vh,ndi(vh,vv) colour composite - The 15.10.2018 during the early morning, 20+cm rained in 6h in the Aude basin. 3D view

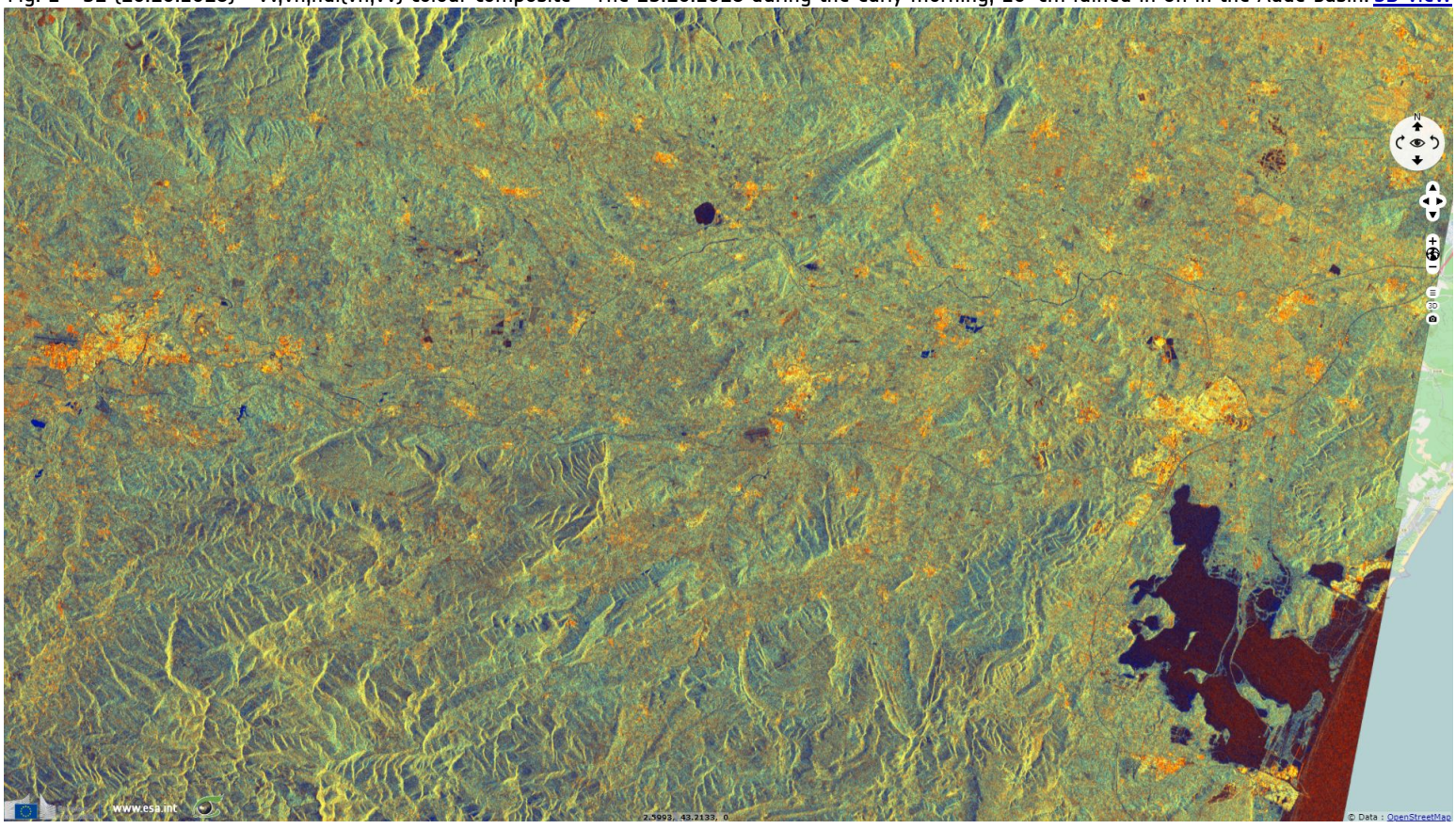


Fig. 3 - S1 (16.10.2018) - Runoff water concentrated in the Aude river, causing it to swell 8-10 meters higher than usual. 3D view

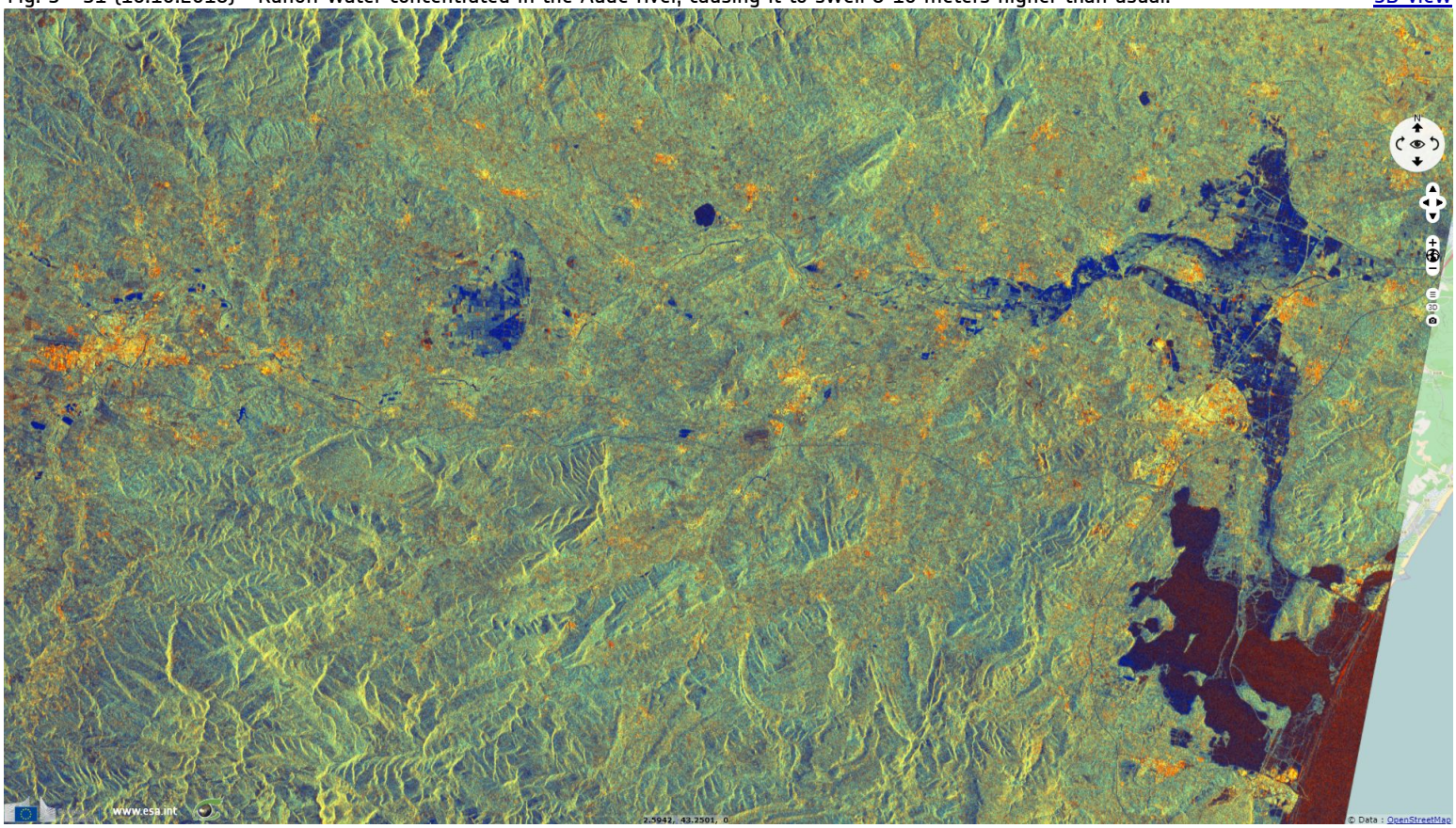
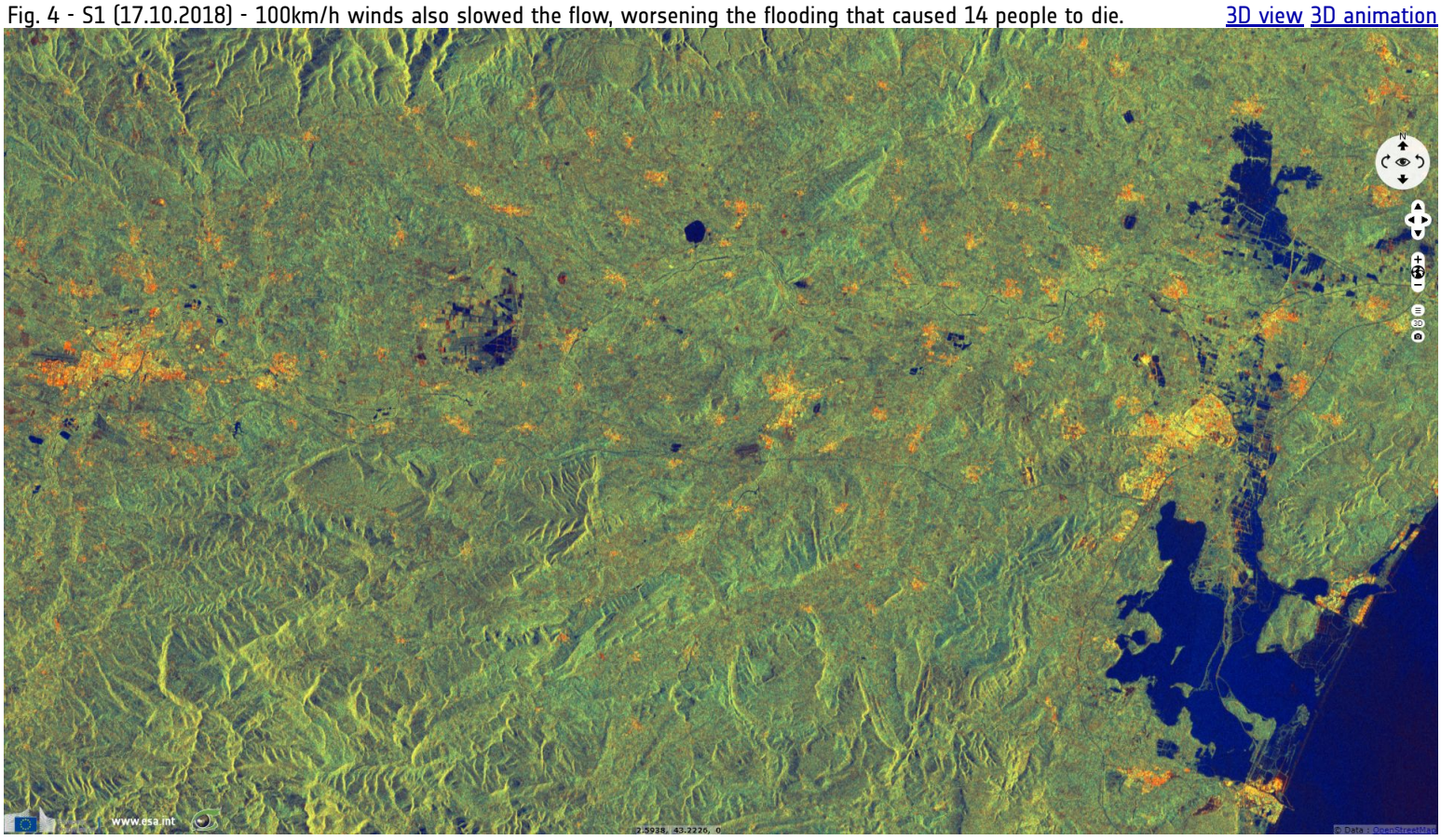


Fig. 4 - S1 (17.10.2018) - 100km/h winds also slowed the flow, worsening the flooding that caused 14 people to die. 3D view 3D animation



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