Sentinel Vision
SED-173
15 January 2018

2D Layerstack

Post-wildfire mudslides hits Montecito, California

Sentinel-2 MSI acquired on **17 January 2017** at 18:47:11 UTC
Sentinel-2 MSI acquired on **28 December 2017** at 18:47:49 UTC
Sentinel-3 OLCI FR acquired on **10 January 2018** at 18:29:35 UTC
Sentinel-2 MSI acquired on **12 January 2018** at 18:47:31 UTC

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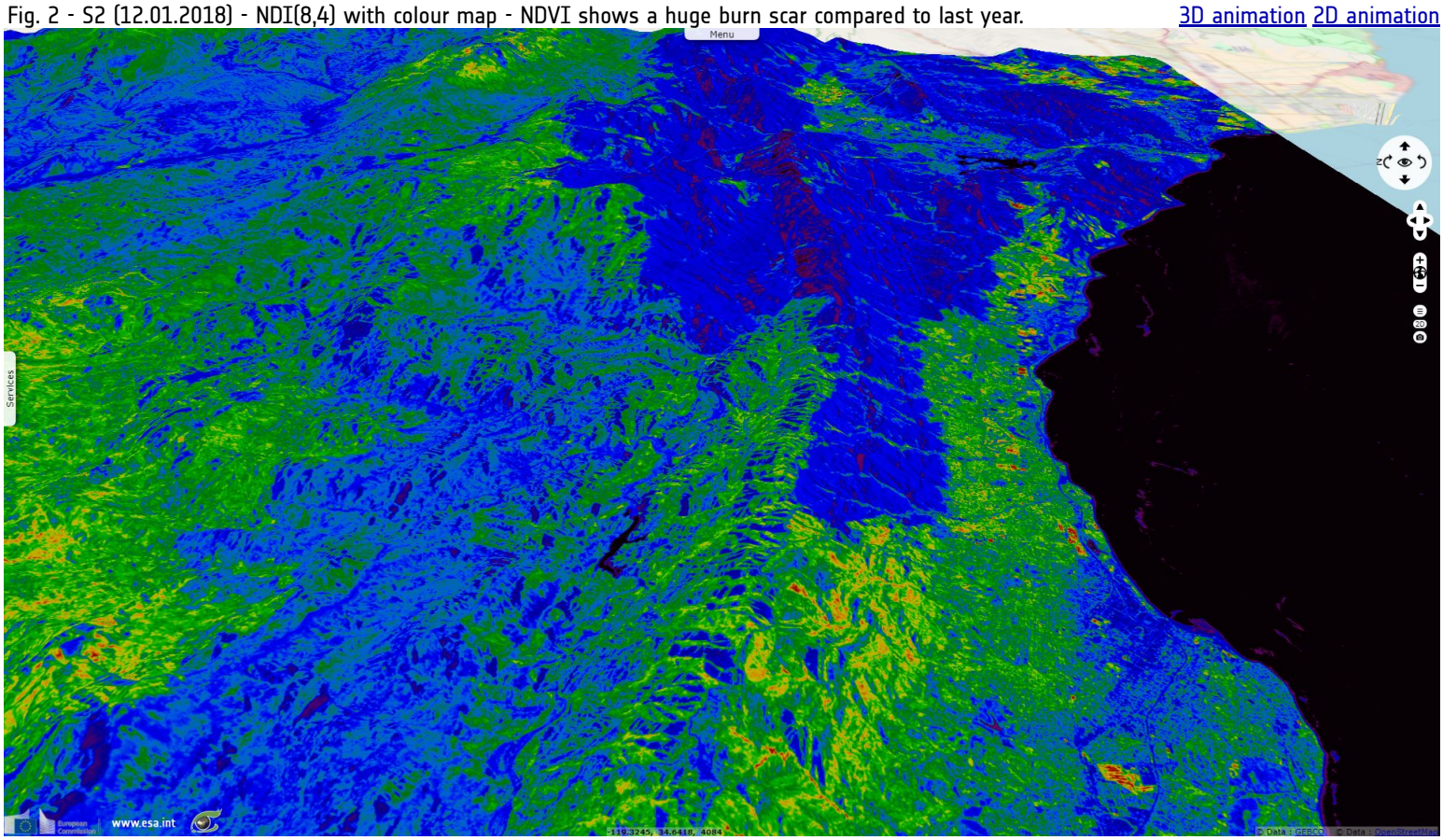
Fig. 1 - S3 OLCI (10.01.2018) - 7,6,4 colour composite - Large quantity of alluvium in water after heavy rainfalls triggered mudslides. 2D view

Fig. 2 - S2 (12.01.2018) - NDI(8,4) with colour map - NDVI shows a huge burn scar compared to last year. 3D animation 2D animation



One month ago, record-breaking Thomas wildfire had burnt most vegetation in the area, leaving soils weakened against erosion & runoff.

Fig. 3 - S2 (17.01.2017, 28.12.2017 & 12.01.2018) - Vegetation was reduced to ashes, then washed away by rainfalls. 3D animation 2D animation

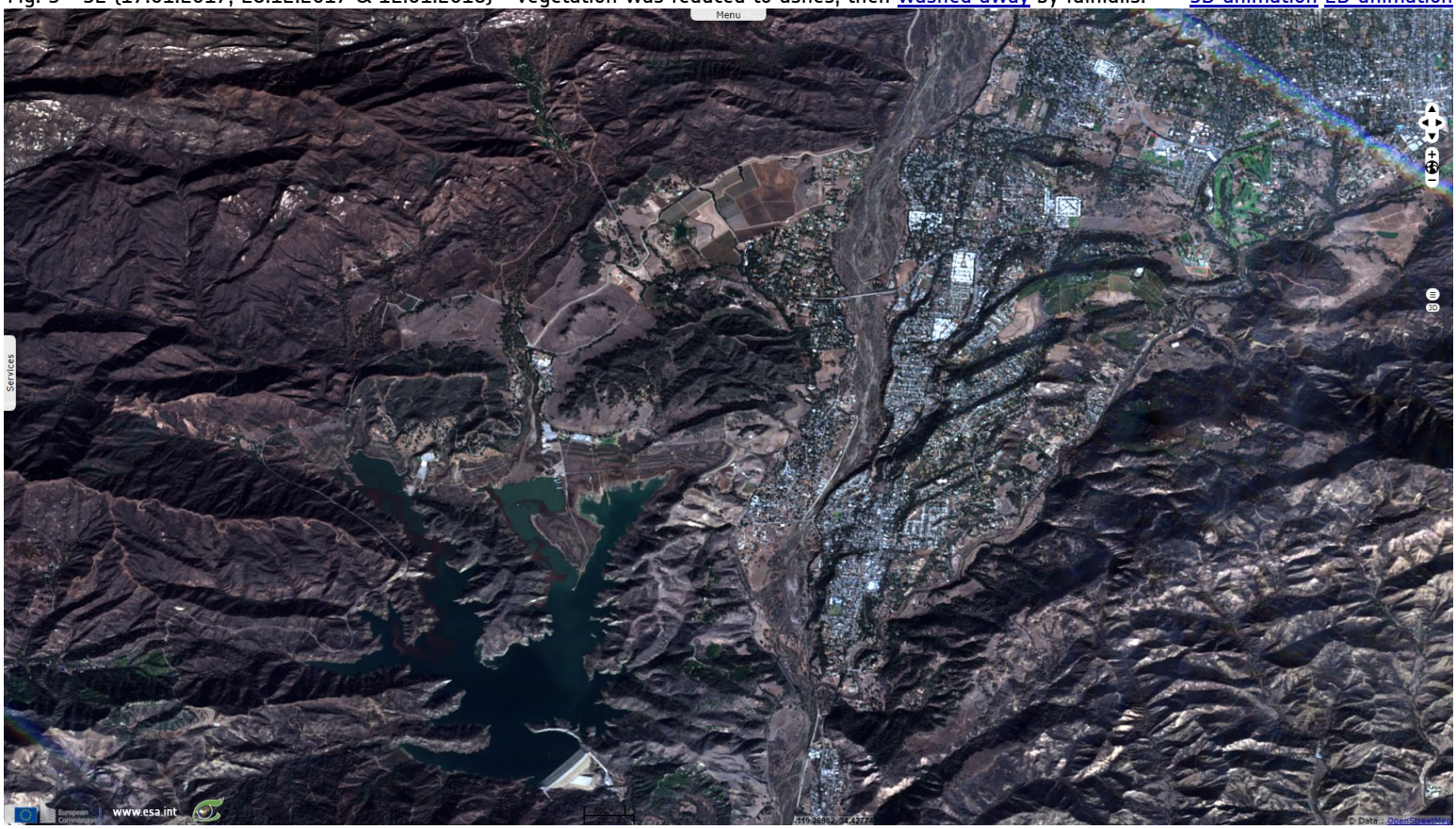
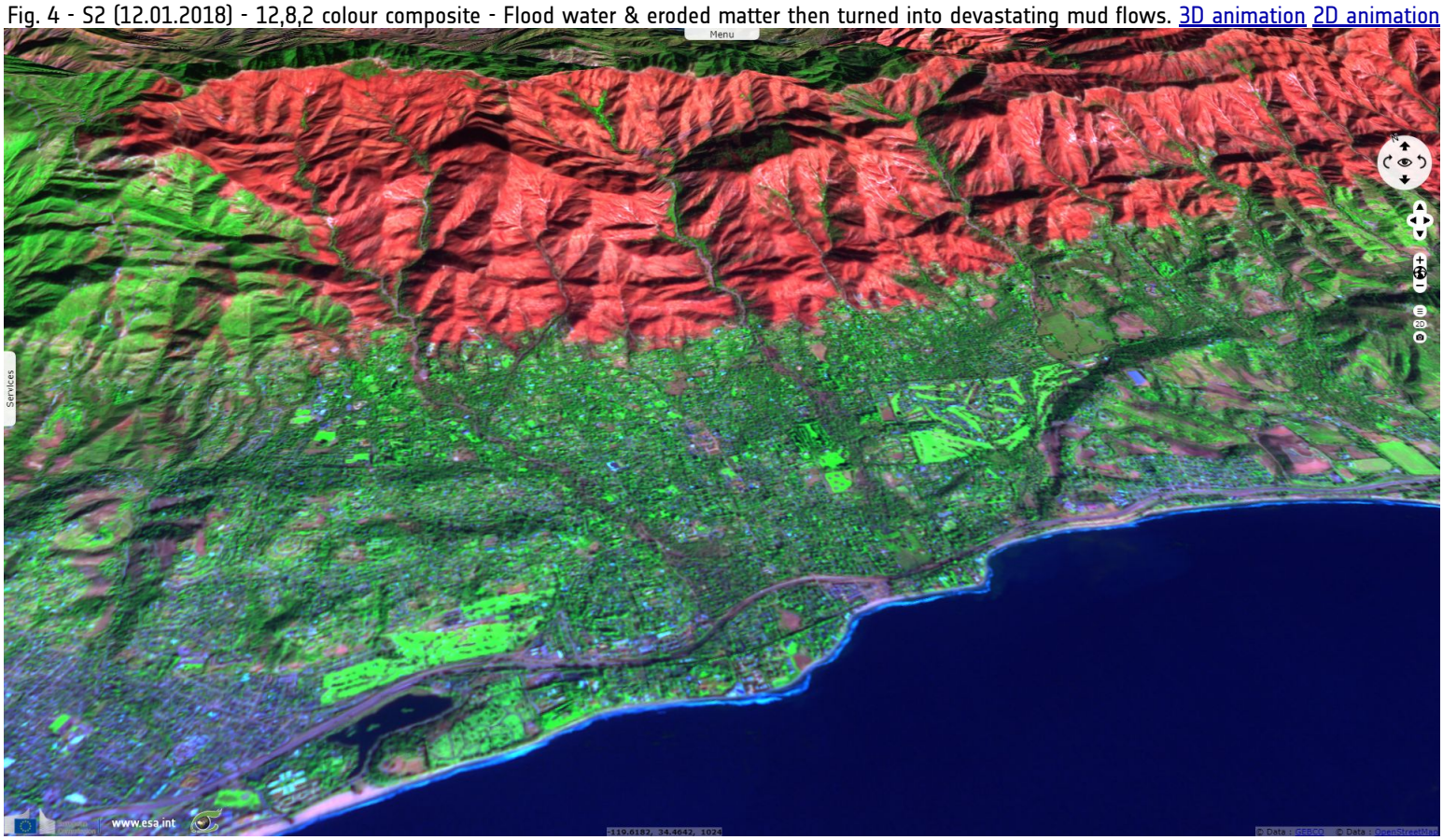


Fig. 4 - S2 (12.01.2018) - 12,8,2 colour composite - Flood water & eroded matter then turned into devastating mud flows. 3D animation 2D animation



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