

Ancient drainage systems in Niger

Sentinel-1 CSAR IW acquired on 01 December 2017 from 17:07:48 to 17:08:38 UTC

Sentinel-1 CSAR IW acquired on 04 December 2017 from 17:31:57 to 17:32:22 UTC

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Sentinel-1 CSAR IW acquired on 11 December 2017 at 17:23:11 UTC

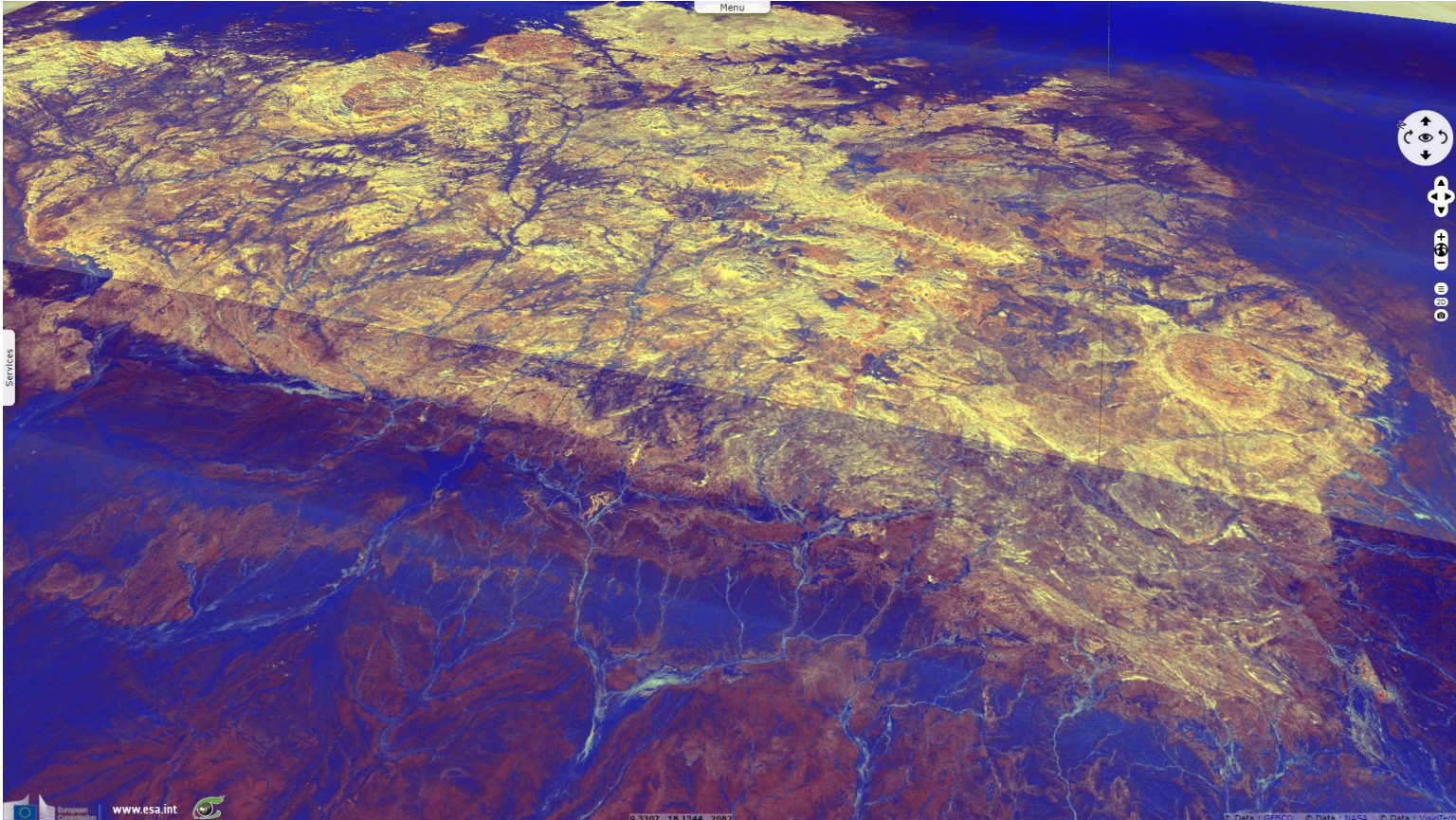
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Keyword(s): Land, hydrology, mountains, drainage system, erosion, erg, desert, Sahara, Sahel, Tenere, Niger



[2D Layerstack](#)

Fig. 1 - 04 & 09.12.2017 - vv,vh,ndi(vh,vv) - Air Moutains are a precambrian plateau encompassing flat round granite intrusions. [2D view](#) [3D view](#)



Niger became an independent republic the 15.12.1958. This story highlights its valleys & wadis now partly buried by ergs, clues of a greener past.

Fig. 2 - 01 & 06.12.2017 - North-east section of the Djado Plateau shows its large sand-filled drainage system. [3D view](#) [2D view](#)

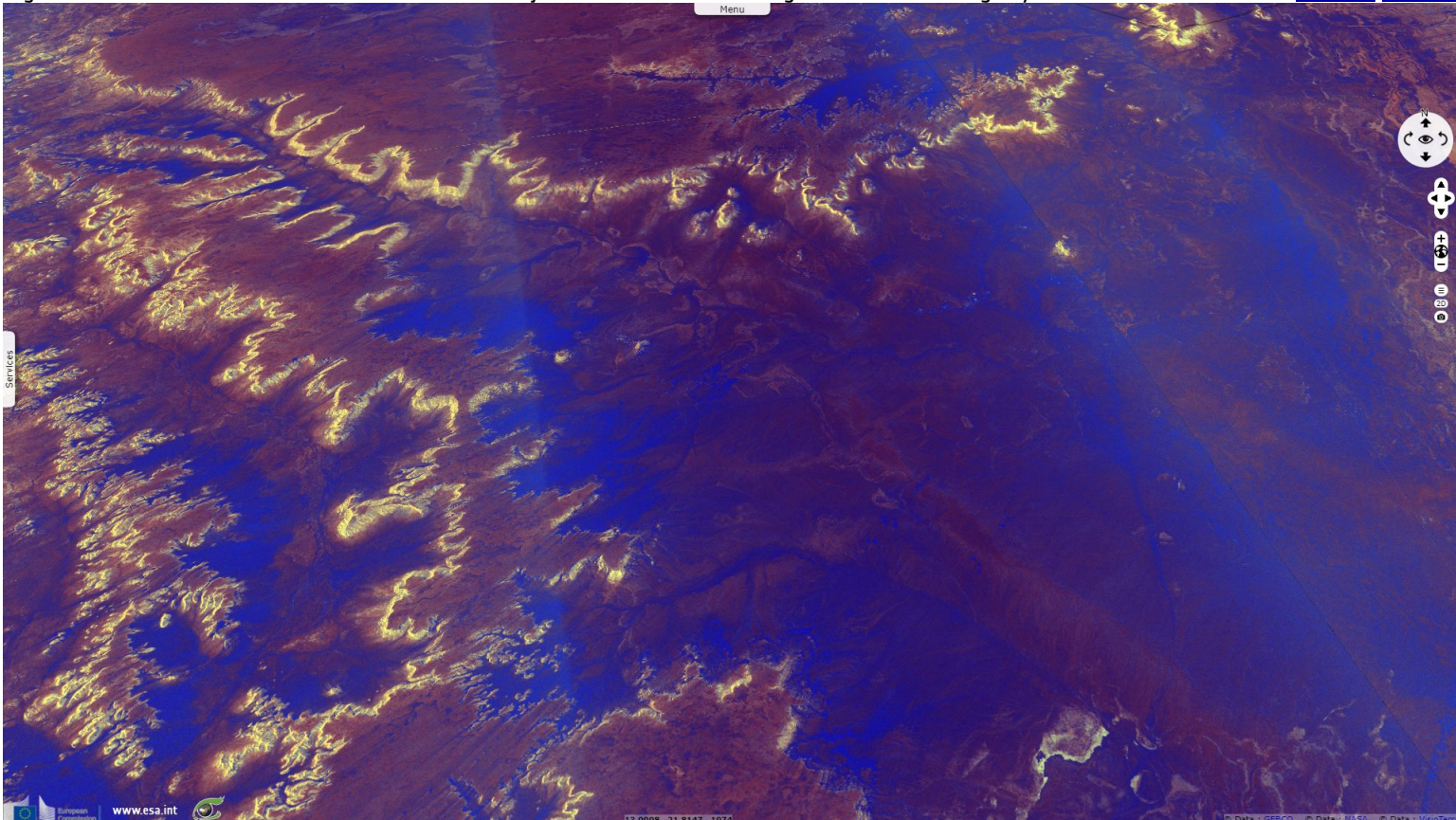


Fig. 3 - 01 & 06.12.2017 - The south-west section shows smaller, wind-eroded, river systems sinking in the Tenere sand sea.

[3D view](#) [2D view](#)

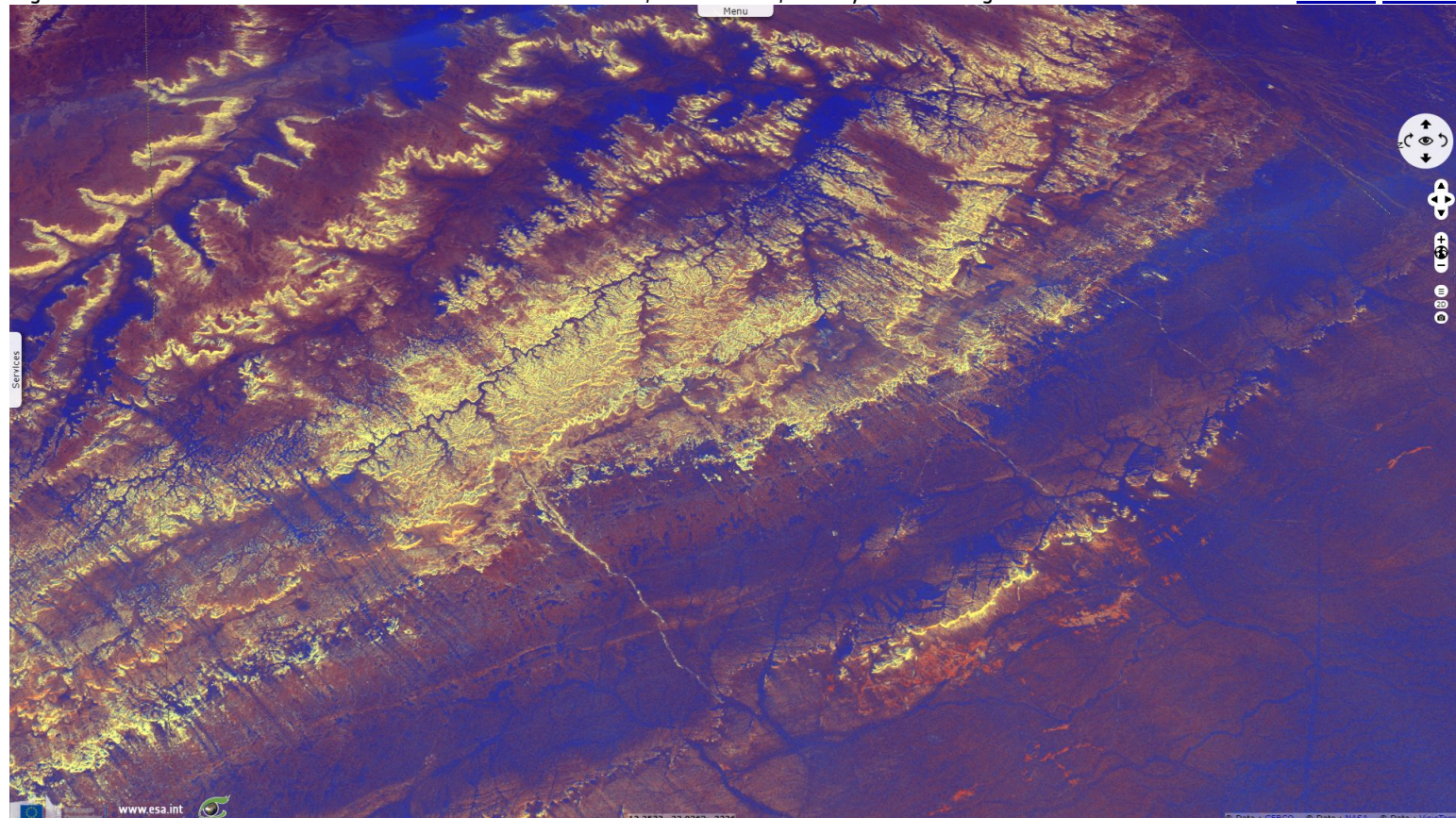
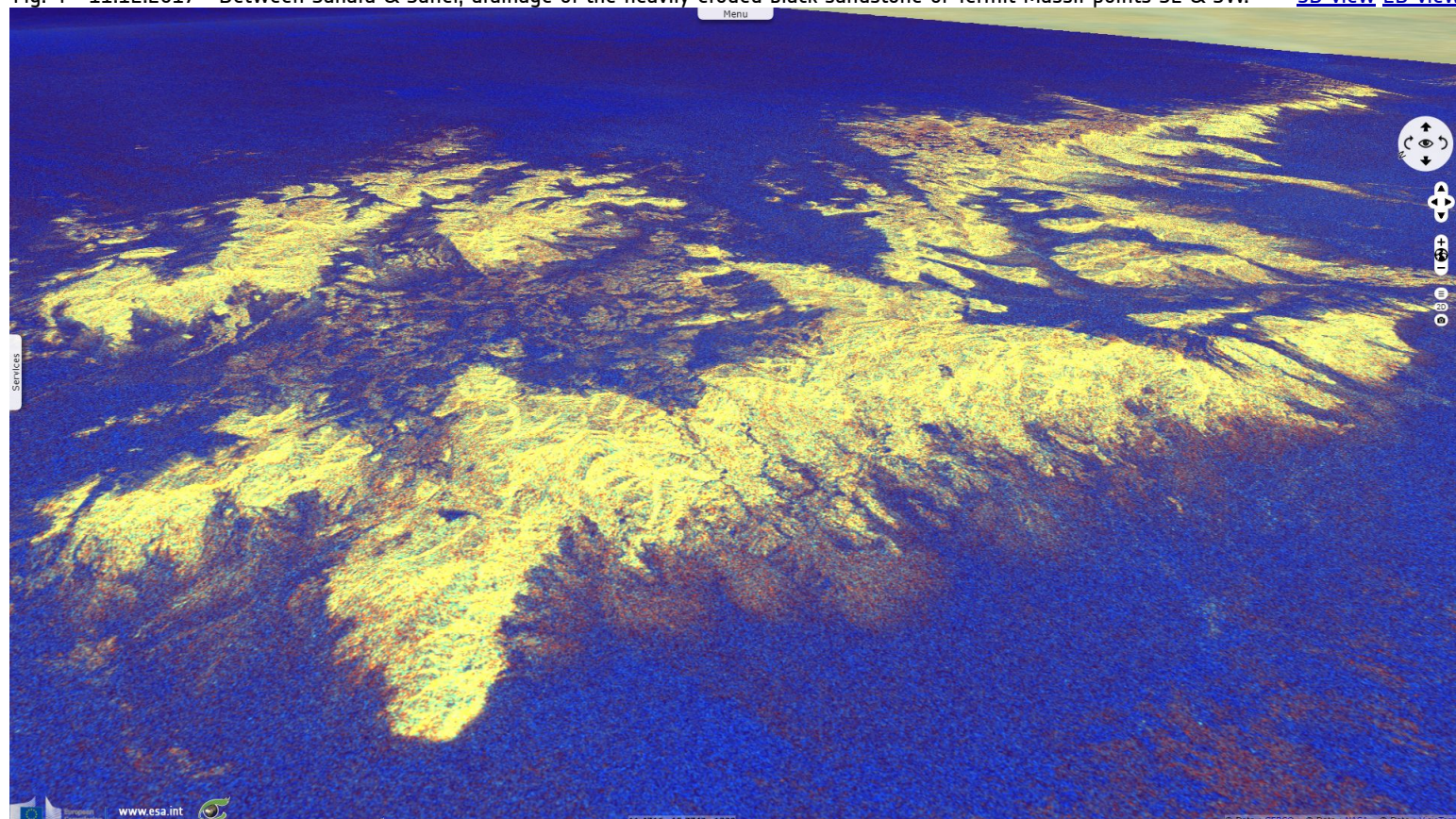


Fig. 4 - 11.12.2017 - Between Sahara & Sahel, drainage of the heavily eroded black sandstone of Termit Massif points SE & SW.

[3D view](#) [2D view](#)



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