

Seasonal contrast in Chambeshi floodplains, Zambia

Sentinel-1 CSAR IW acquired on 08 September 2018 from 16:17:21 to 16:17:46 UTC

Sentinel-1 CSAR IW acquired on 07 March 2019 from 16:17:19 to 16:17:44 UTC

Sentinel-2 MSI acquired on 17 April 2019 at 07:46:19 UTC

Sentinel-2 MSI acquired on 08 November 2019 at 07:51:31 UTC

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[2D Layerstack](#)

Fig. 1 - S1 (07.03.2019) - vv,vh,ndi(vh,vv) - The Chambeshi River floodplains belong to the Zambezi flooded grasslands ecoregion.

[2D view](#)

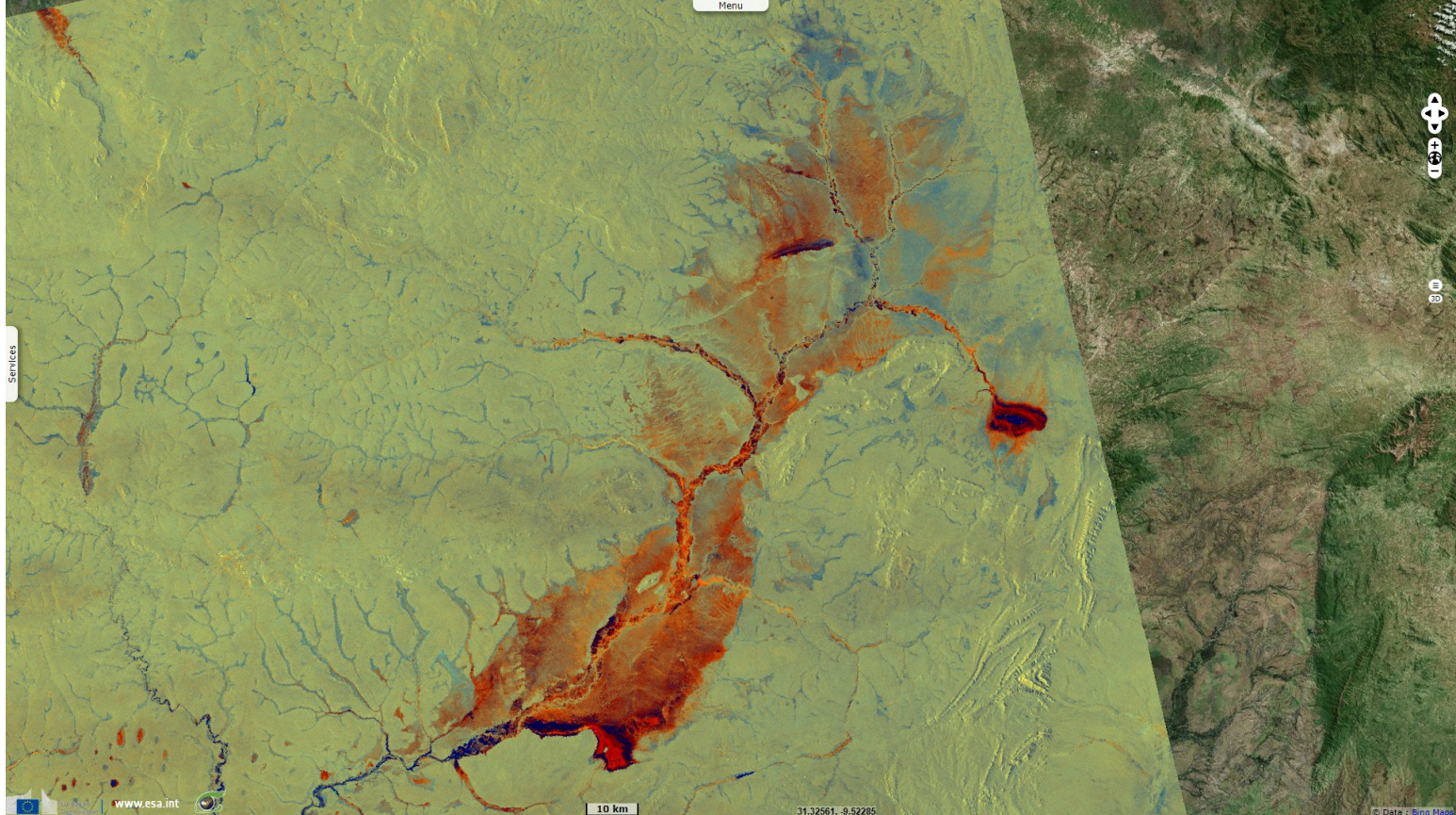


Fig. 2 - S2 (17.04.2019) - 4,3,2 natural colour - They are located in Zambia, located west of Lake Malawi, south-east of Lake Tanganyika.

[2D view](#)

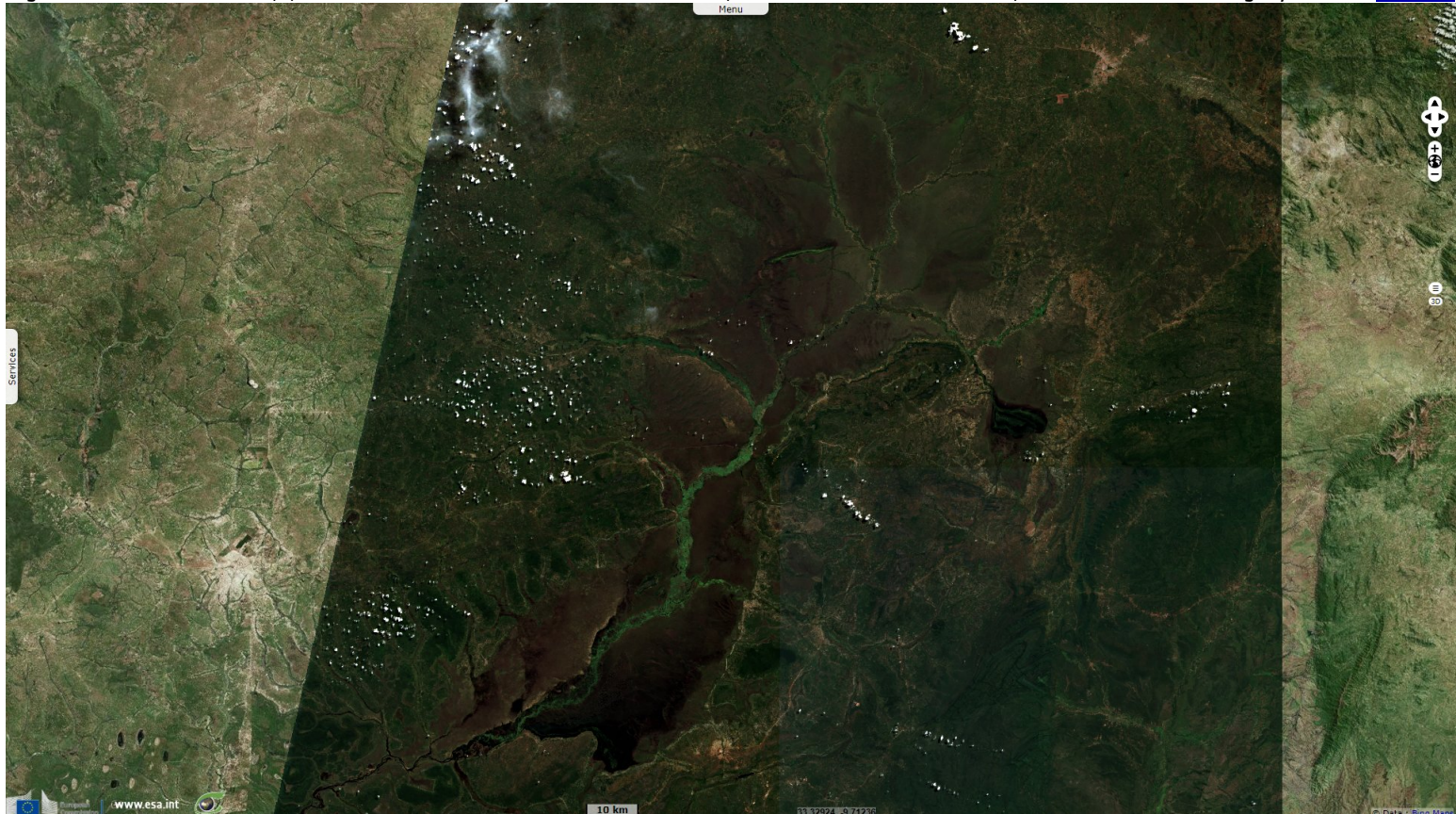
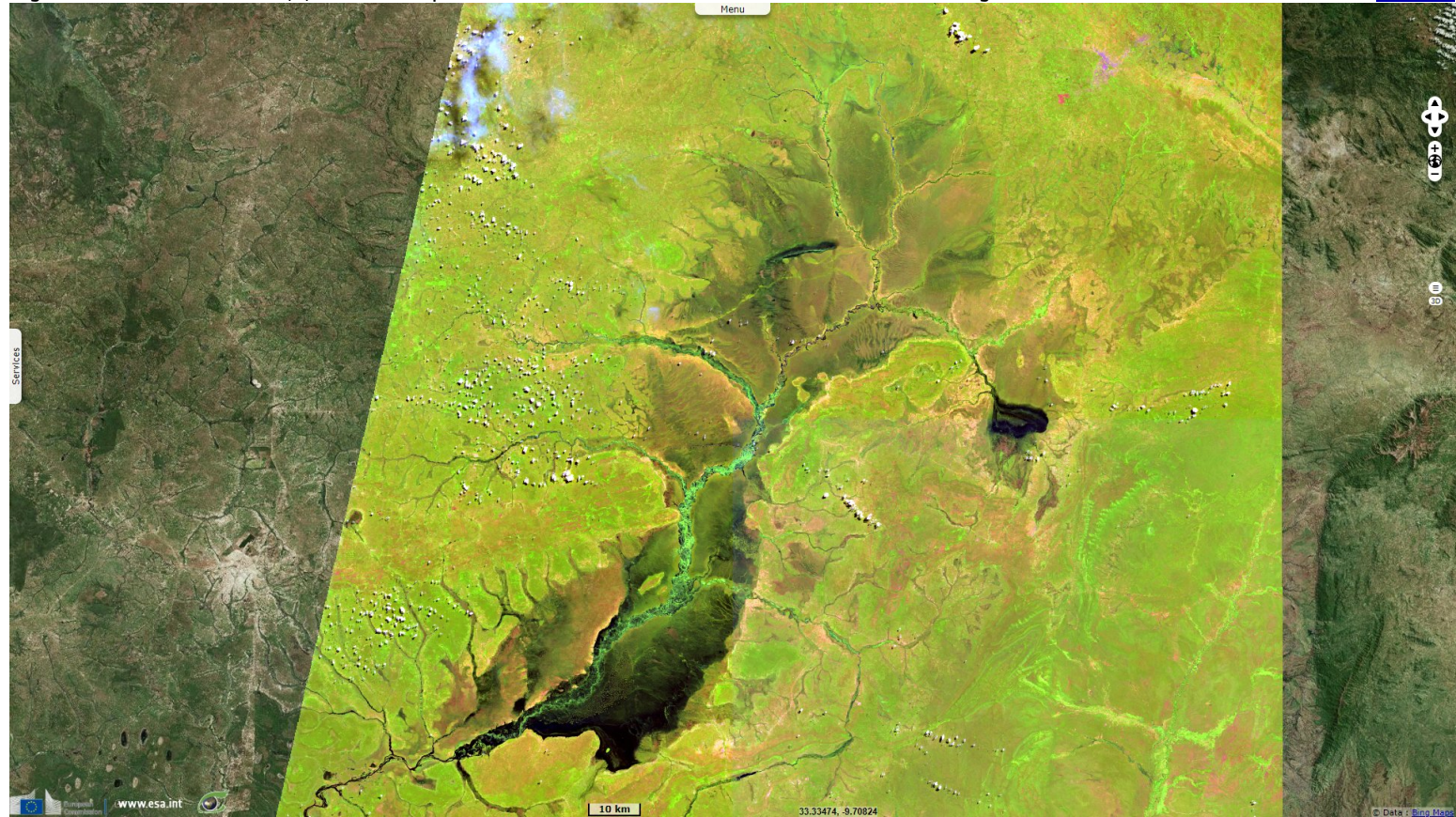


Fig. 3 - S2 (17.04.2019) - 11,8,2 colour composite - Chambeshi is the most remote source of the Congo river.

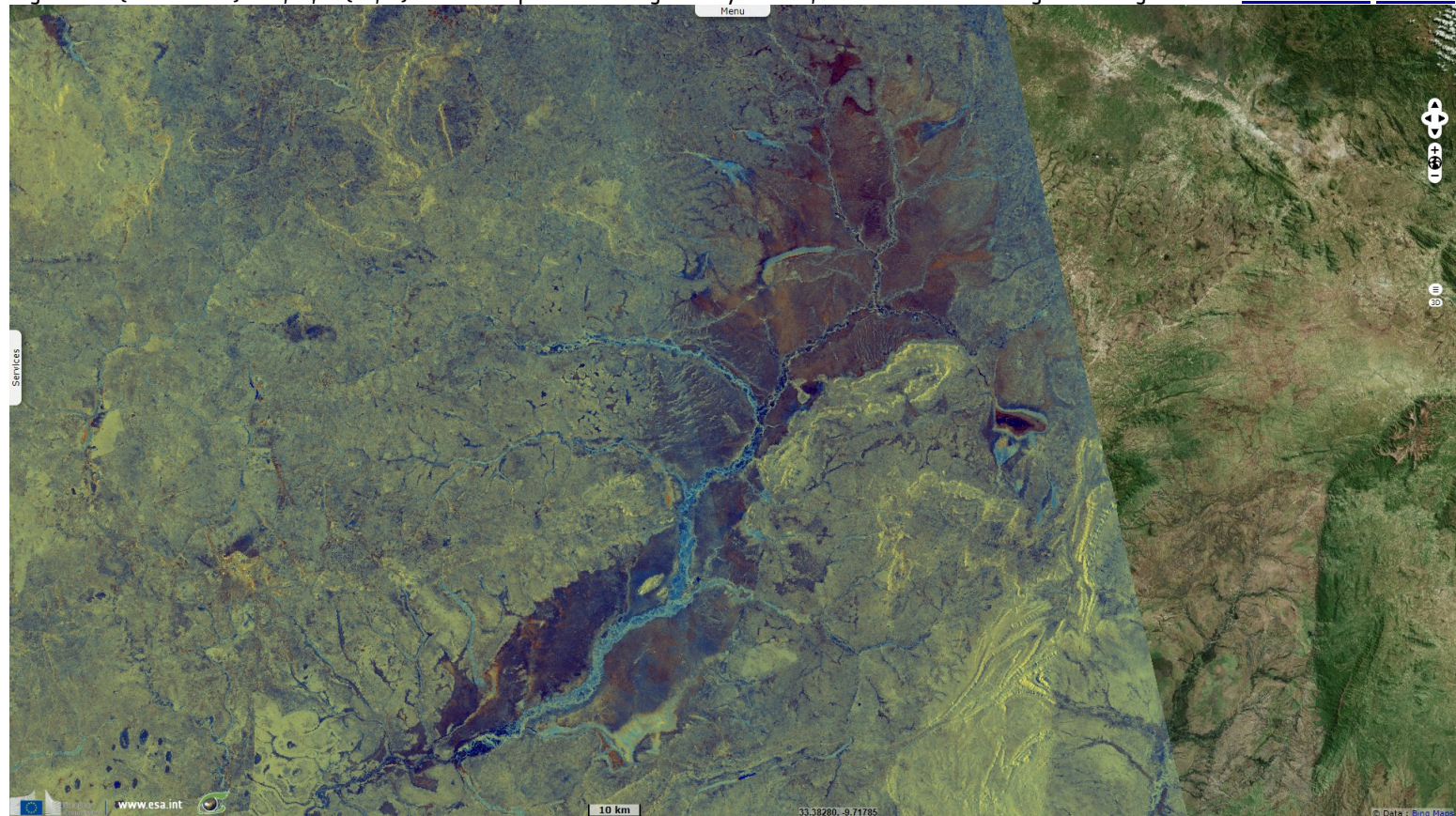
[2D view](#)



By the end of the rainy season in May, it delivers a flood which recharges the swamps and inundates a vast floodplain to the southeast

Fig. 4 - S1 (08.09.2018) - vv,vh,ndi(vh,vv) colour composite - During the dry season, most of the marsh vegetation regresses.

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



Even during the dry season the floodplains sustain a great deal of wildlife including buffalos, antelopes, elephants, zebras, giraffes, a large numbers of birds with hippopotamus and crocodiles in the waters.

Fig. 5 - S2 (08.11.2019) - 4,3,2 natural colour - The red soil of the plateau shows as the grassland vegetation has shrunk.

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

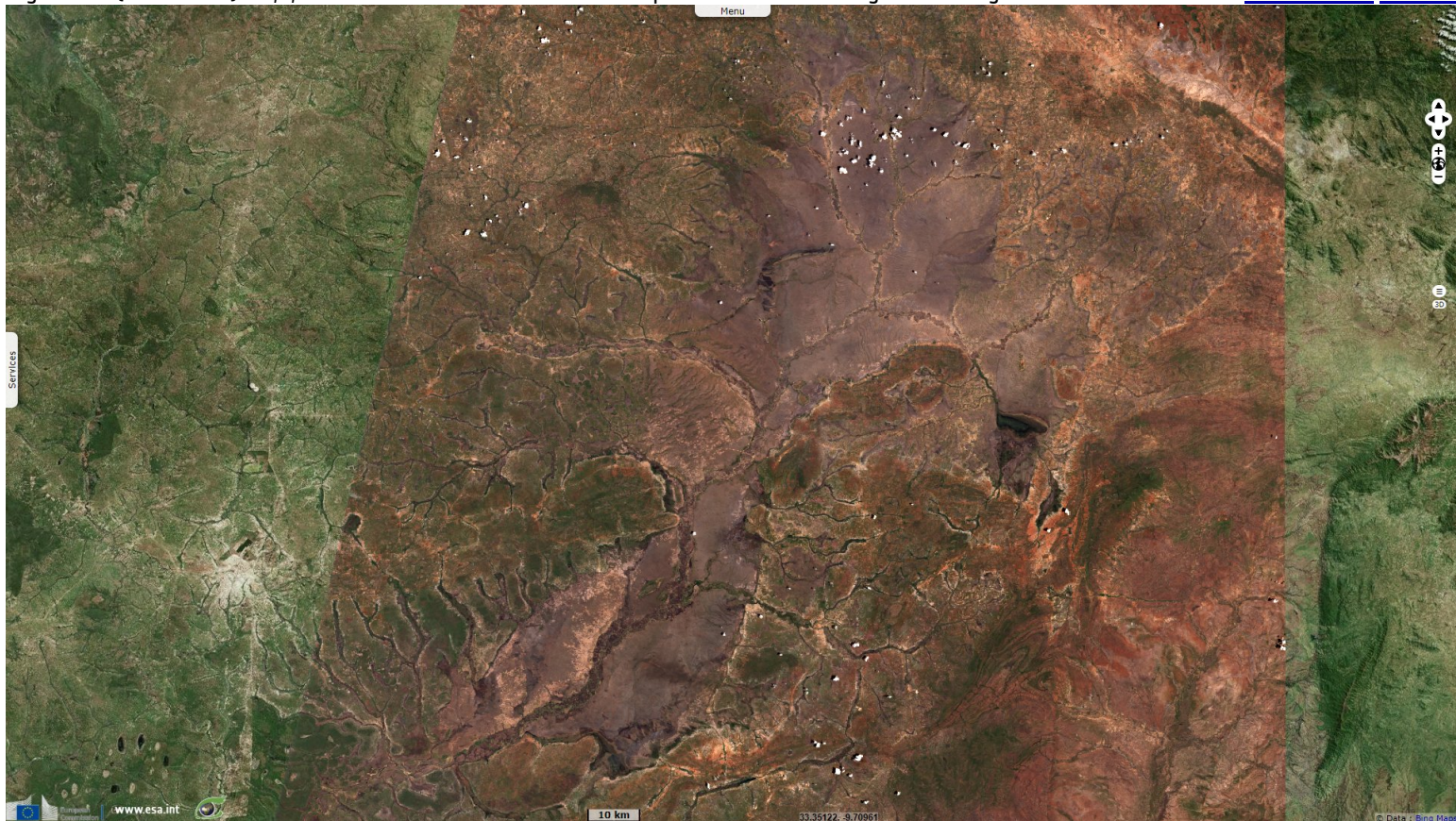
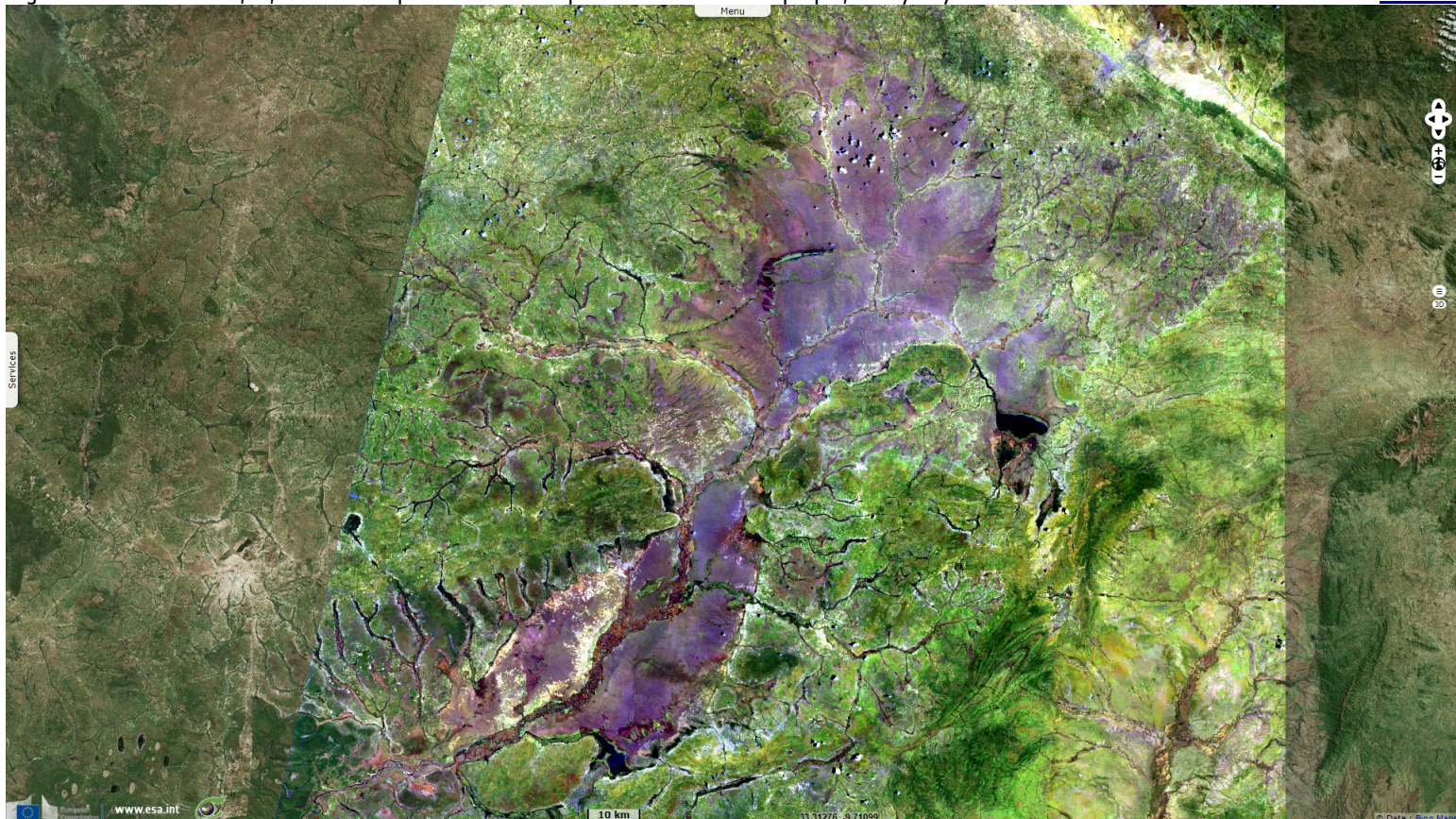


Fig. 6 - 08.11.2019 - 12,11,2 colour composite - The floodplain extent shows in purple, vastly beyond the river banks at its narrowest.

[2D view](#)



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