

Large landslide in Fagraskógarfjall, west Iceland

Sentinel-2 MSI acquired on 20 June 2018 at 13:17:19 UTC
Sentinel-1 CSAR IW acquired on 05 July 2018 at 18:58:57 UTC
Sentinel-2 MSI acquired on 17 July 2018 at 13:12:59 UTC
Sentinel-1 CSAR IW acquired on 17 July 2018 at 18:58:58 UTC

Author(s): Sentinel Vision team, VisioTerra, France - svp@visioterra.fr

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[2D Layerstack](#)

Fig. 1 - S1 (05.07.2018) - vv,vh,vv colour composite - July 7th, a landslide fell in Fagraskógarfjall mountain in Hítardalur valley, west-Iceland. [2D view](#)

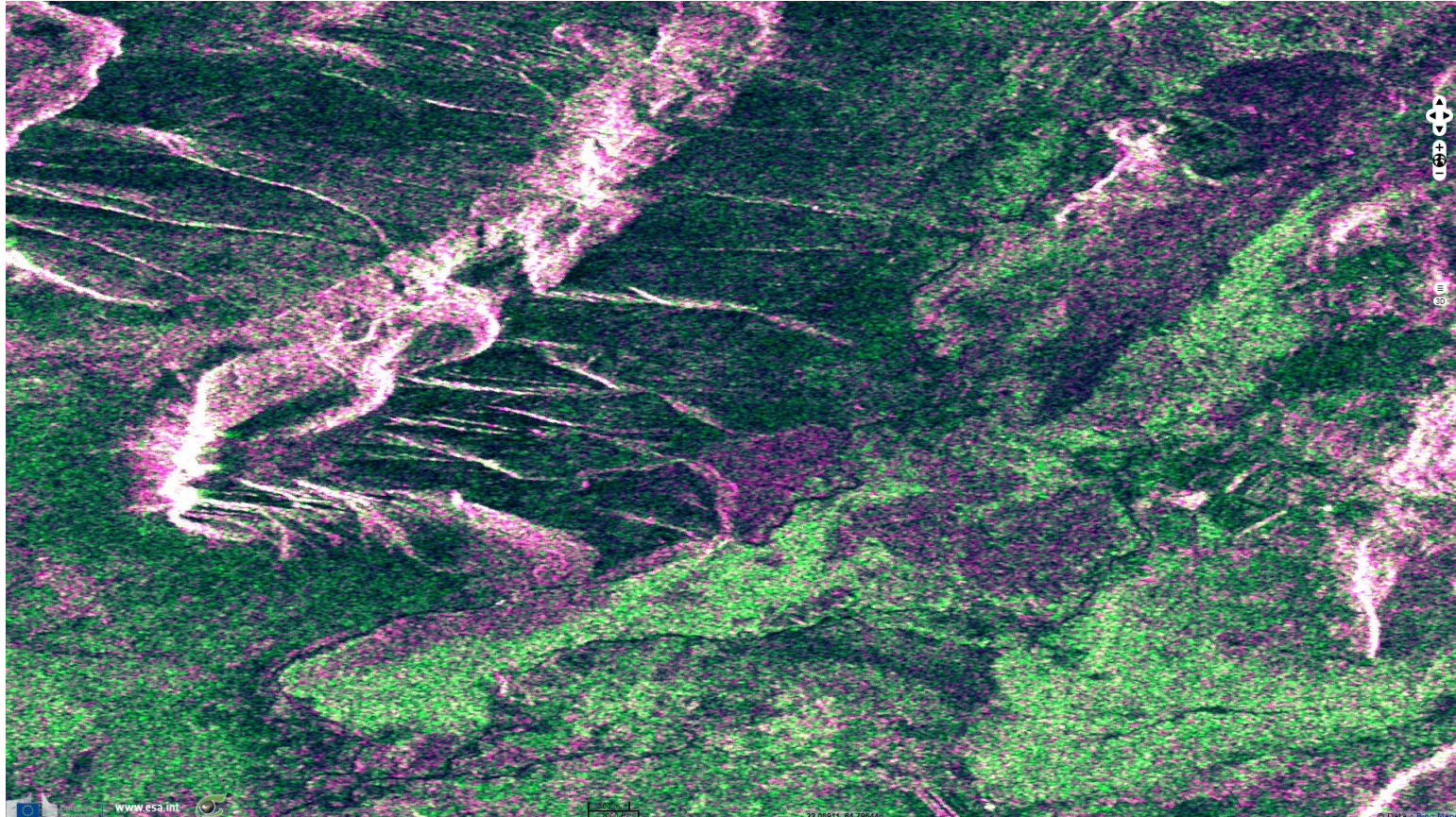
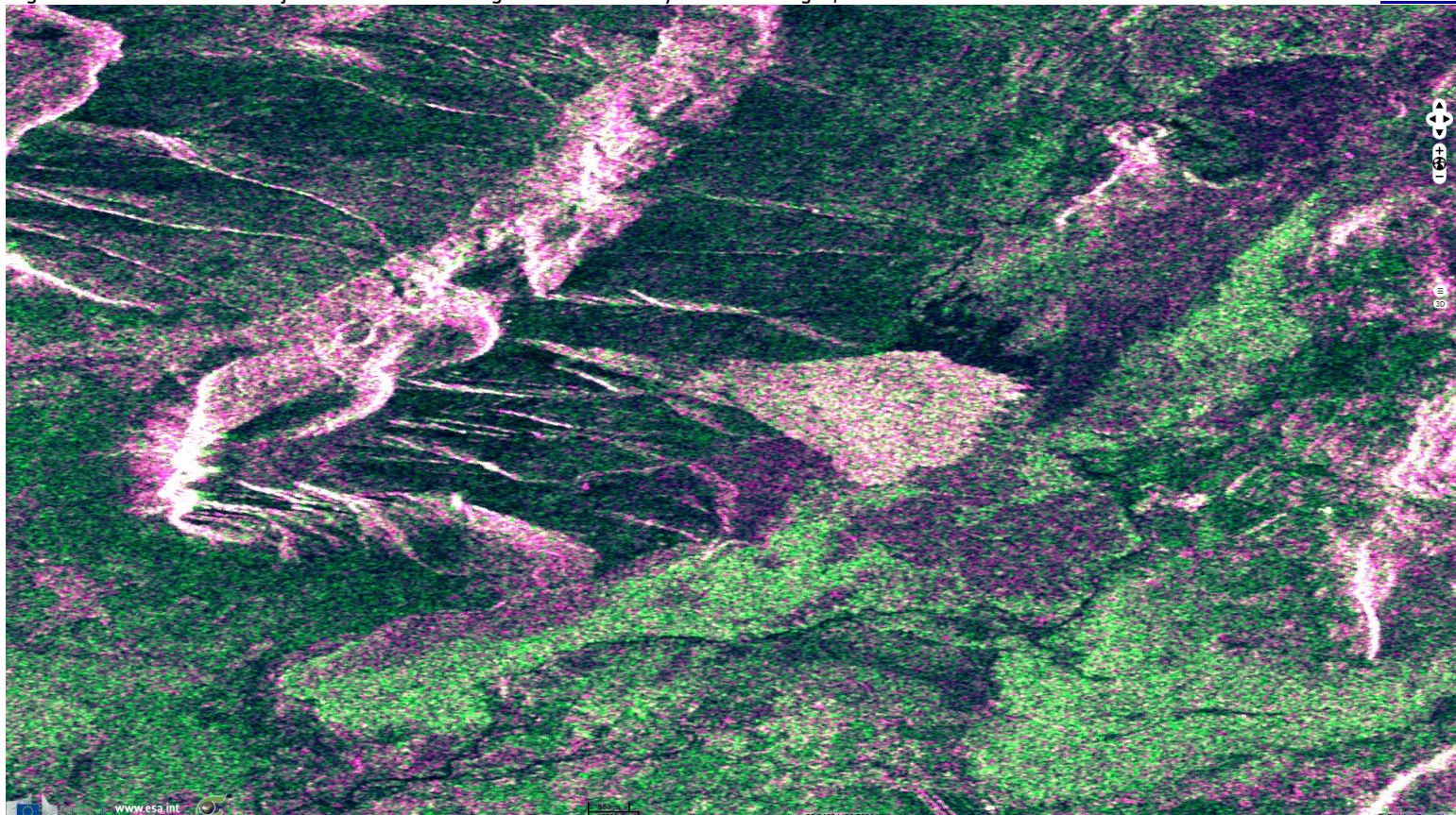
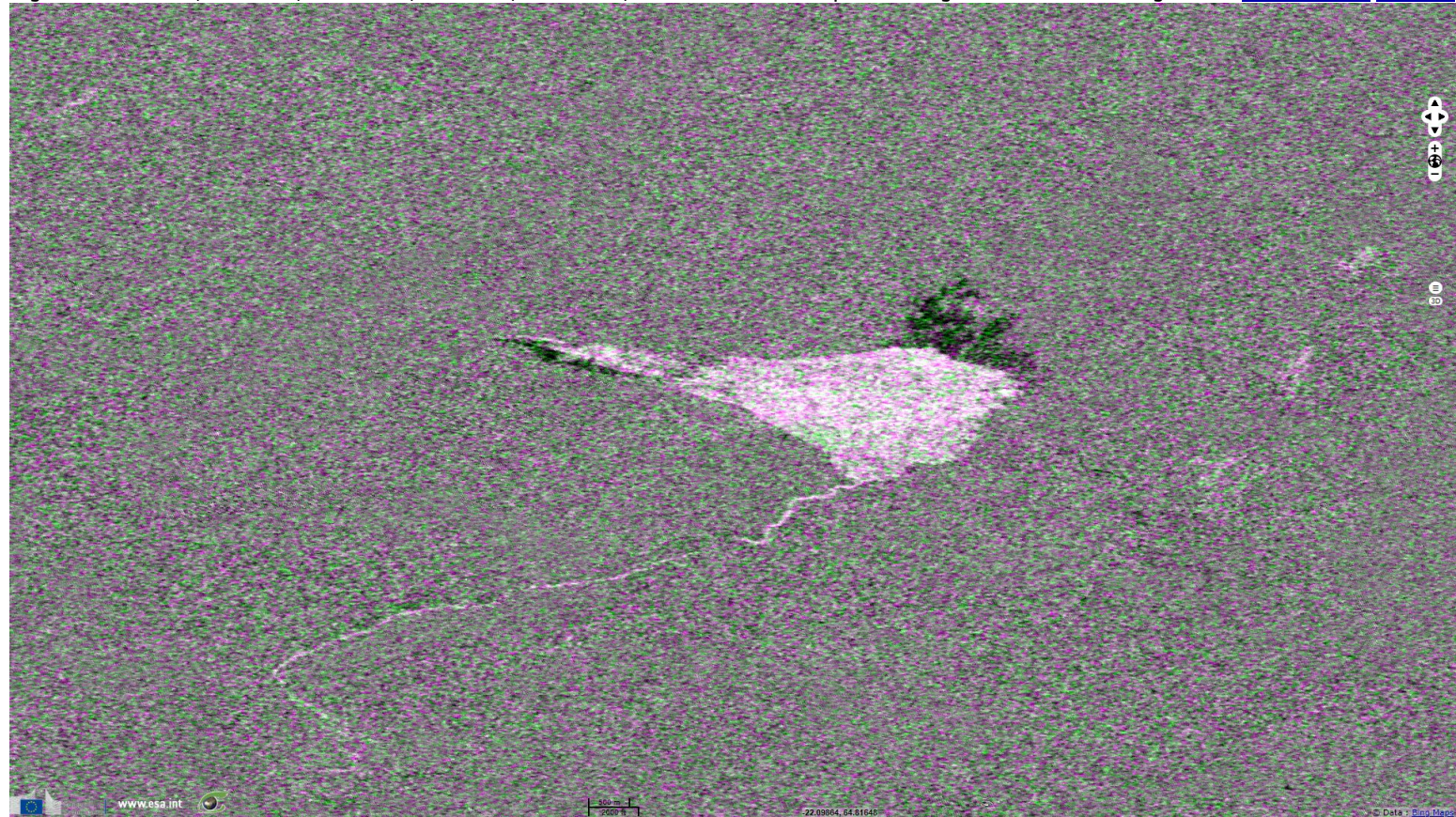


Fig. 2 - 17.07.2018 - The dejection cone of the large landslide clearly shows in bright, the new lake & diverted river in dark. [2D view](#)



The landslide crossed the river Hítará, damming the river and causing a lake to form above the debris tongue.

Fig. 3 - ndi(vv after,vv before),ndi(vh after,vh before),ndi(vv after,vv before) colour composite - Bright & dark show change. [2D animation](#) [2D view](#)



This composite using normalised difference indices between several dates highlights the debris fan in bright. Just north, the dammed river formed a lake (dark) which water now flows south east toward the Tálmi river bed (lesser dark ribbon). Downstream of the landslide, river Hítará is partly dried up which shows as a bright ribbon.

Fig. 4 - S2 (20.06.2018) - 4,3,2 natural colour - The total slide volume might be 10–20 million m3, up to 20–30 m thick on 1.8km². [3D view](#) [2D view](#)

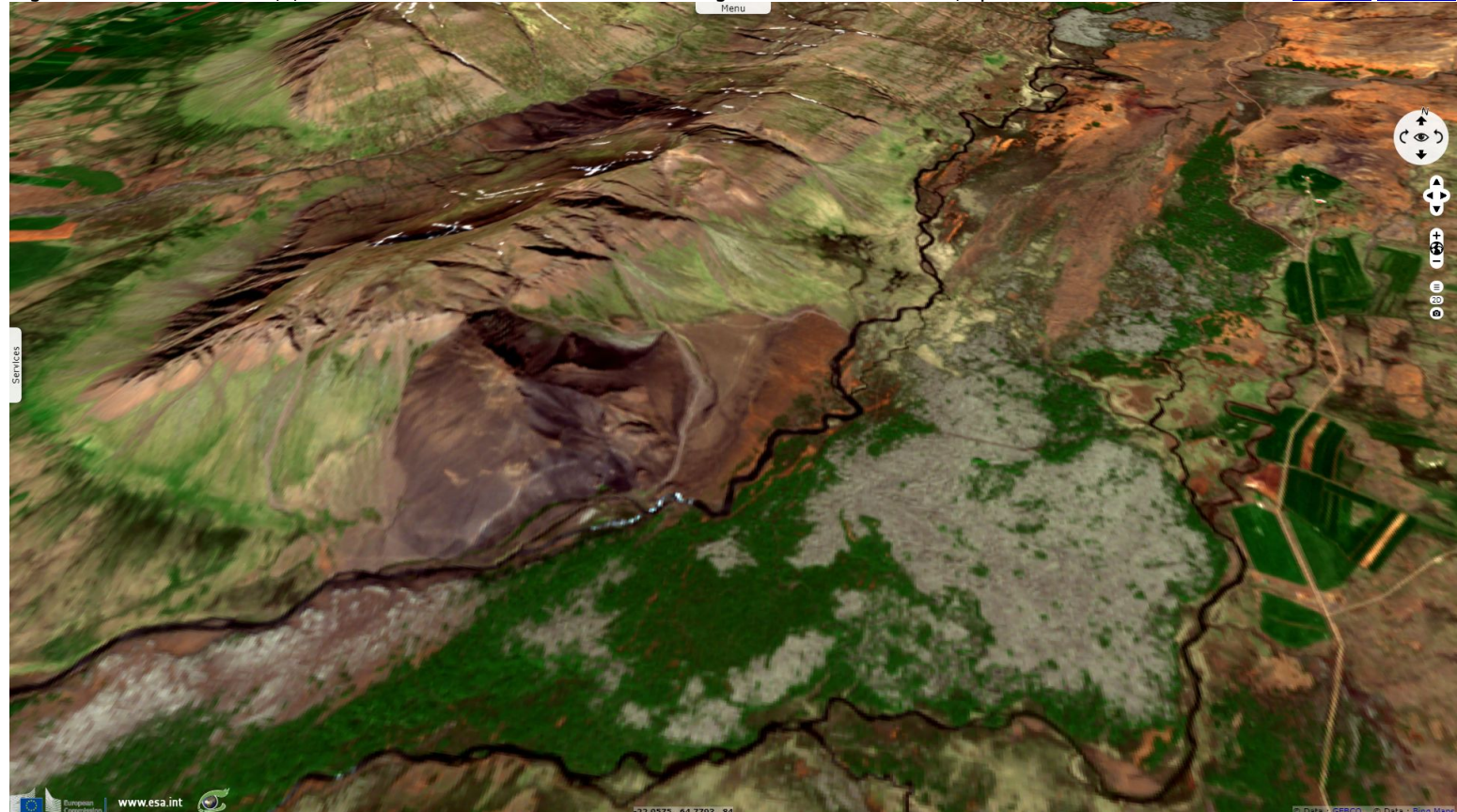
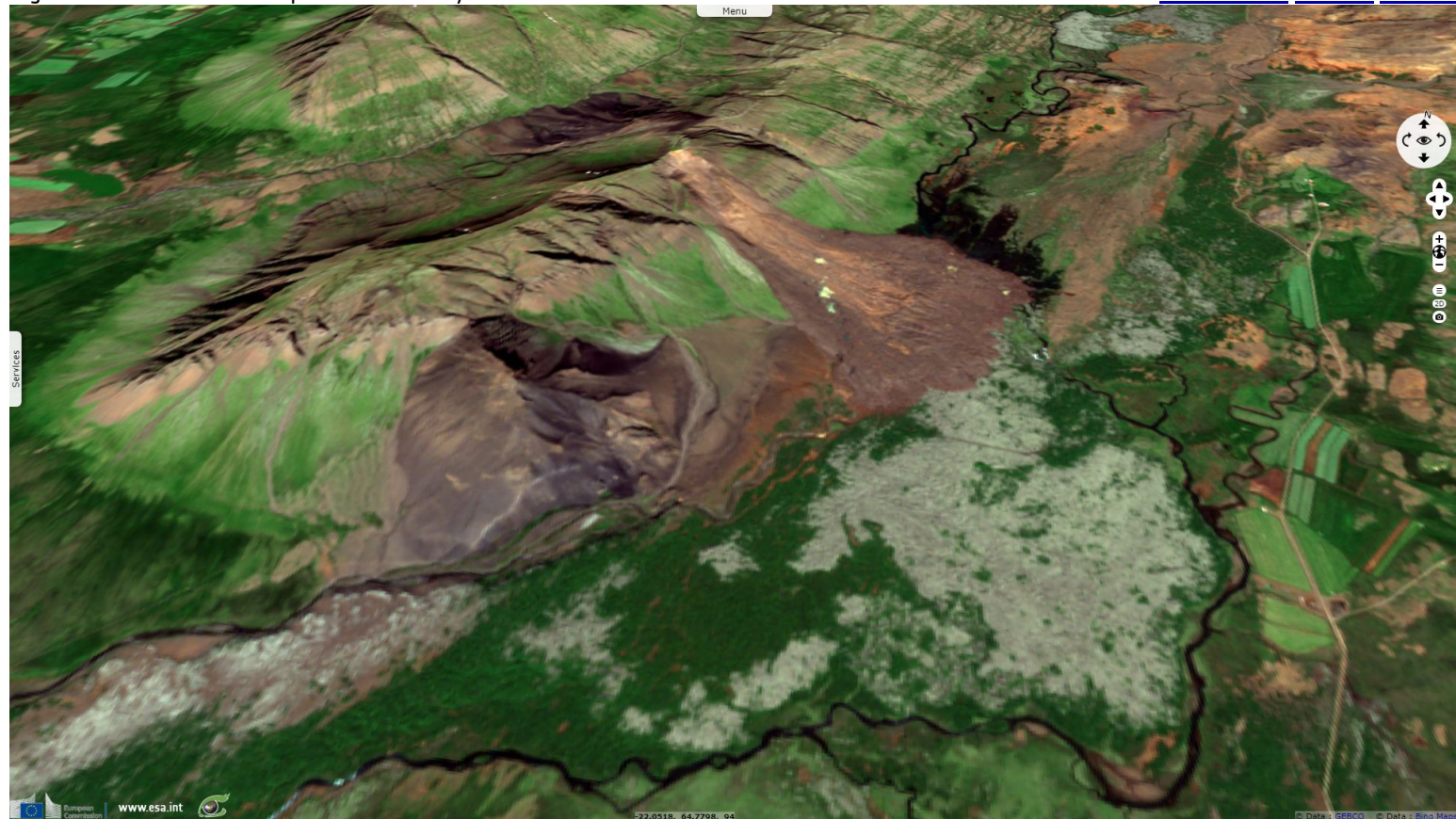














Fig. 5 - 17.07.2017 - Same optical view 10 days after the landslide.

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



The water found a new channel east the next day into Tálmi, a riverbed that reconnects with the now smaller Hítará river a few km farther downstream.

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