

Majestic Mount Tambora

Sentinel-2 MSI acquired on **23 August 2017** at 02:23:19 UTC
Sentinel-1 CSAR IW acquired on **08 April 2018** at 21:44:45 UTC

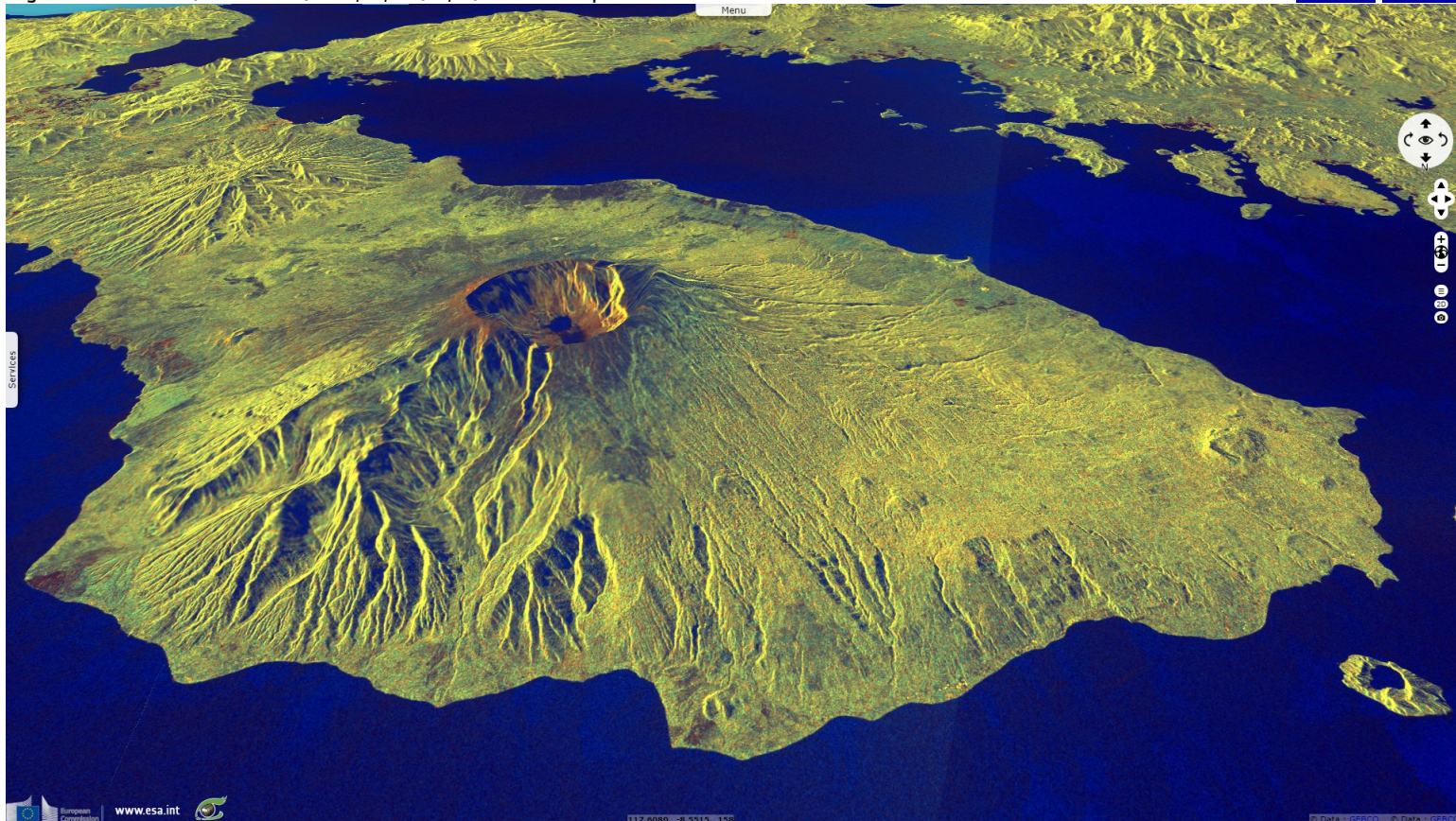
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Keyword(s): Geohazard, climate change, explosive volcano, island, eruption, caldera, crater, subduction, Pacific Ring of fire, Indonesia

[2D Layerstack](#)

Fig. 1 - Sentinel-1 (08.04.2018) - vv,vh,ndi(vh,vv) colour composite - Sumbawa Island borders the Sunda subduction arc.

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



Tambora eruption in 1815 was heard 2600km away, it caused a worldwide "year without summer".

Fig. 2 - Sentinel-2 (23.08.2017) - 12,11,8 colour composite - At 2850m, Mount Tambora is the island's highest point. [3D view](#) [2D view](#) [3D animation](#)

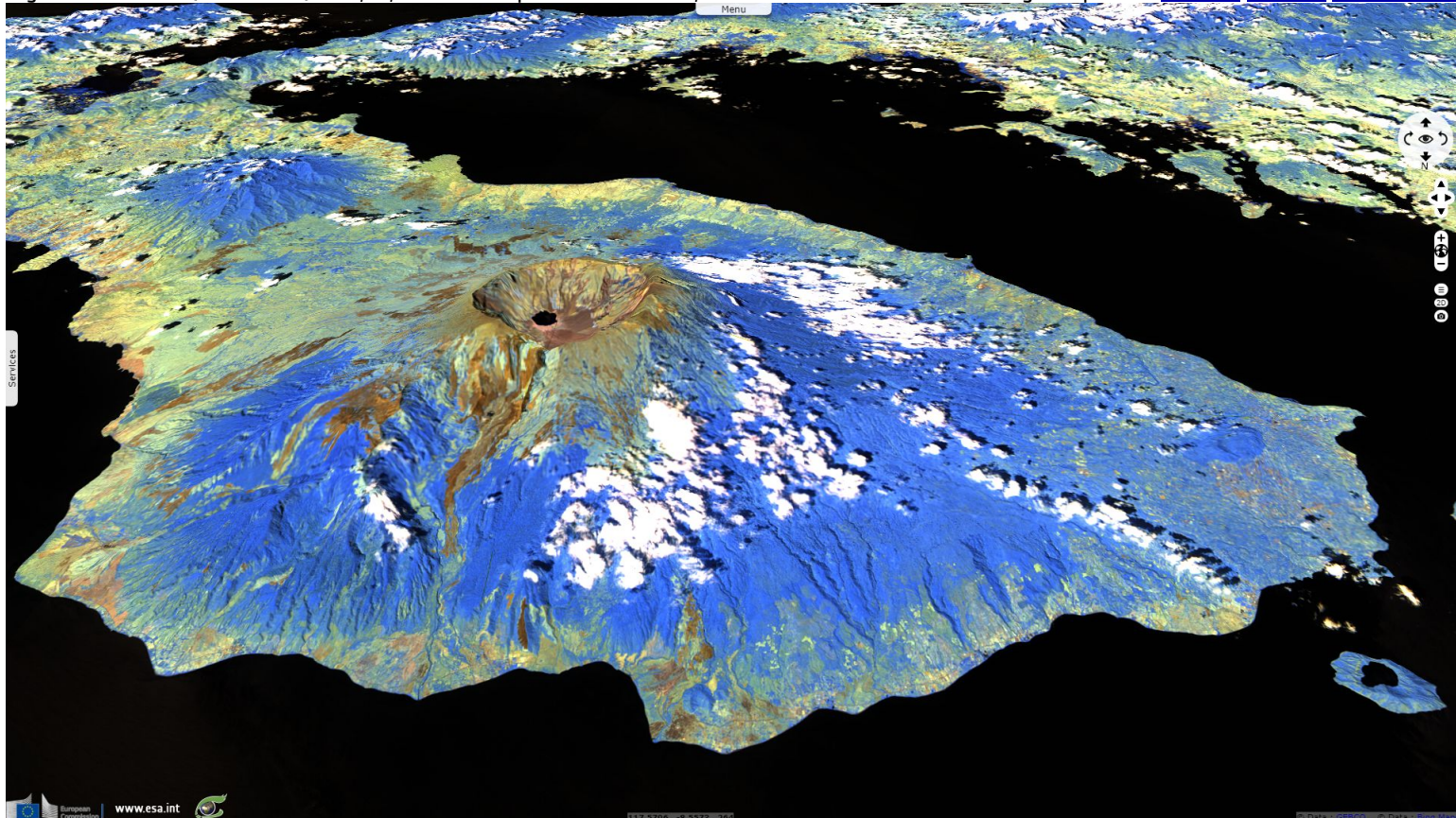


Fig. 3 - S2 - 11,8,2 colour composite - It used to top 4000m before its 1815 eruption removed 150 km3 of material. [3D view](#) [2D view](#) [3D animation](#)

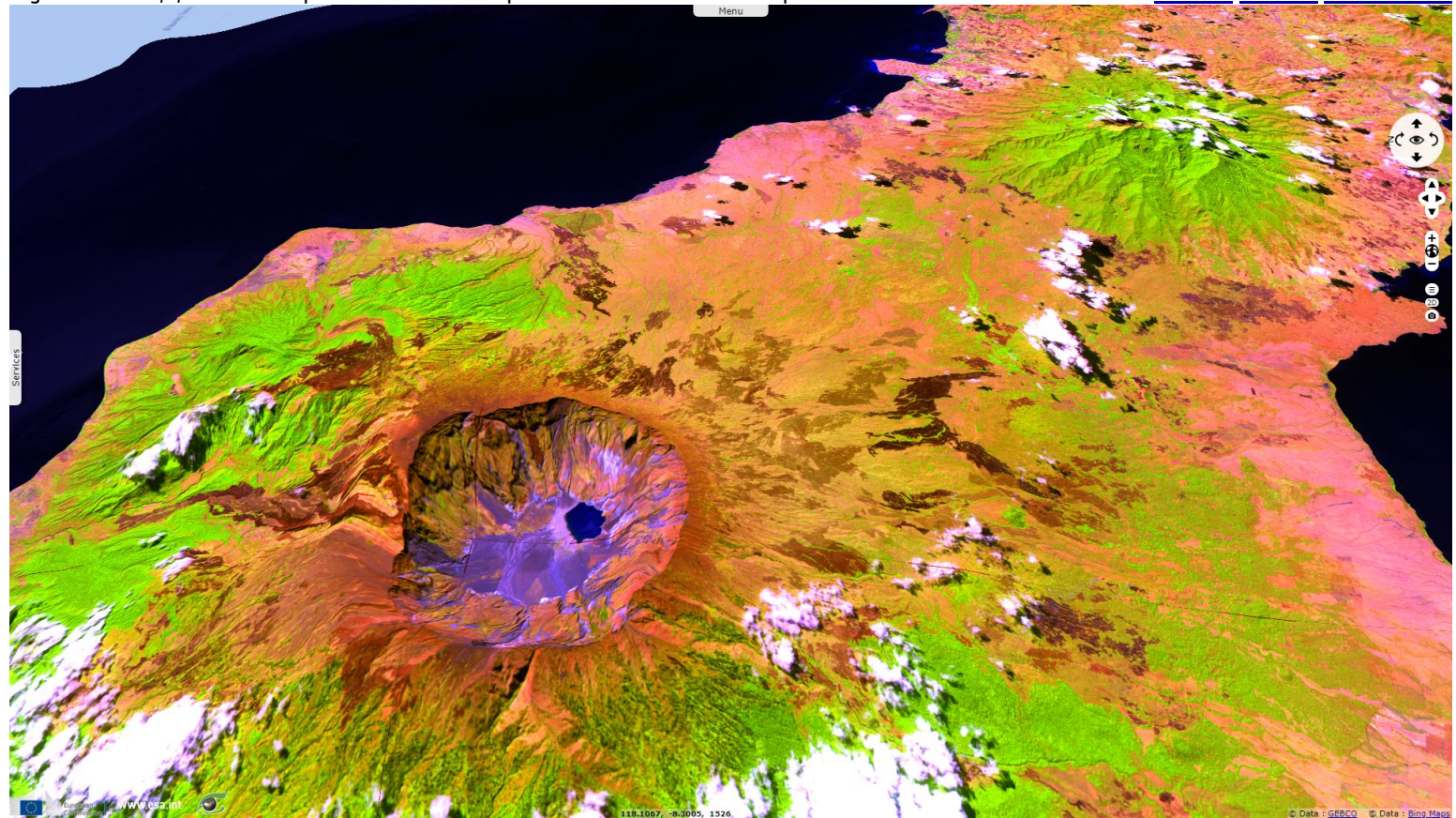
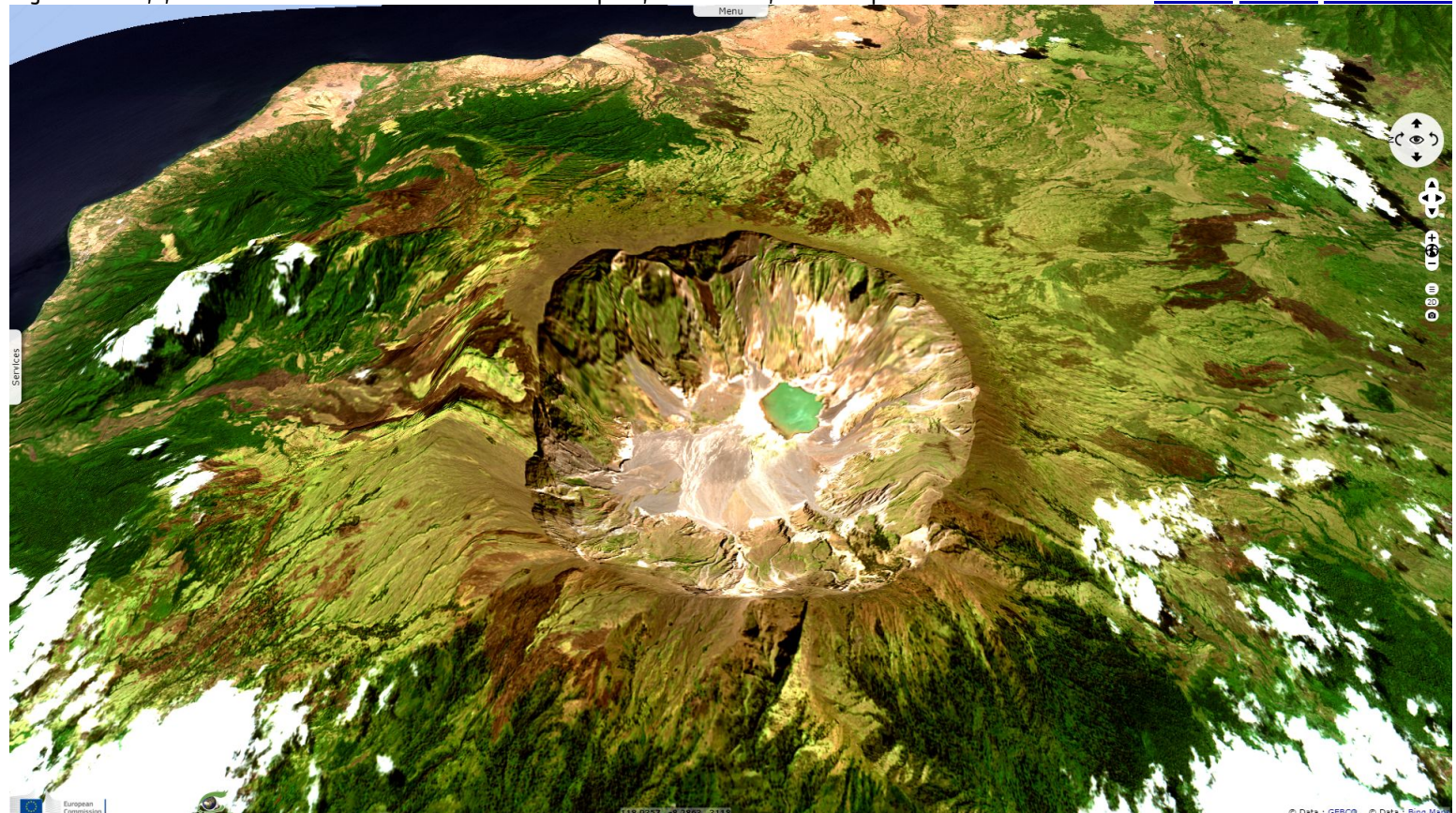


Fig. 4 - S2 - 4,3,2 natural colour - As Tambora's summit collapsed, a 6km-wide, 1-km deep caldera formed instead. [3D view](#) [2D view](#) [3D animation](#)



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