

Mount Sidley and the Executive Committee Range, volcanic hotspot within the Antarctica

Sentinel-1 CSAR IW acquired on 01 December 2021 at 09:48:11 CET
Sentinel-2 MSI acquired on 01 December 2021 at 16:43:09 CET
Sentinel-1 CSAR IW acquired from 29 June 2022 to 23 July 2022 at 10:48:56 CEST

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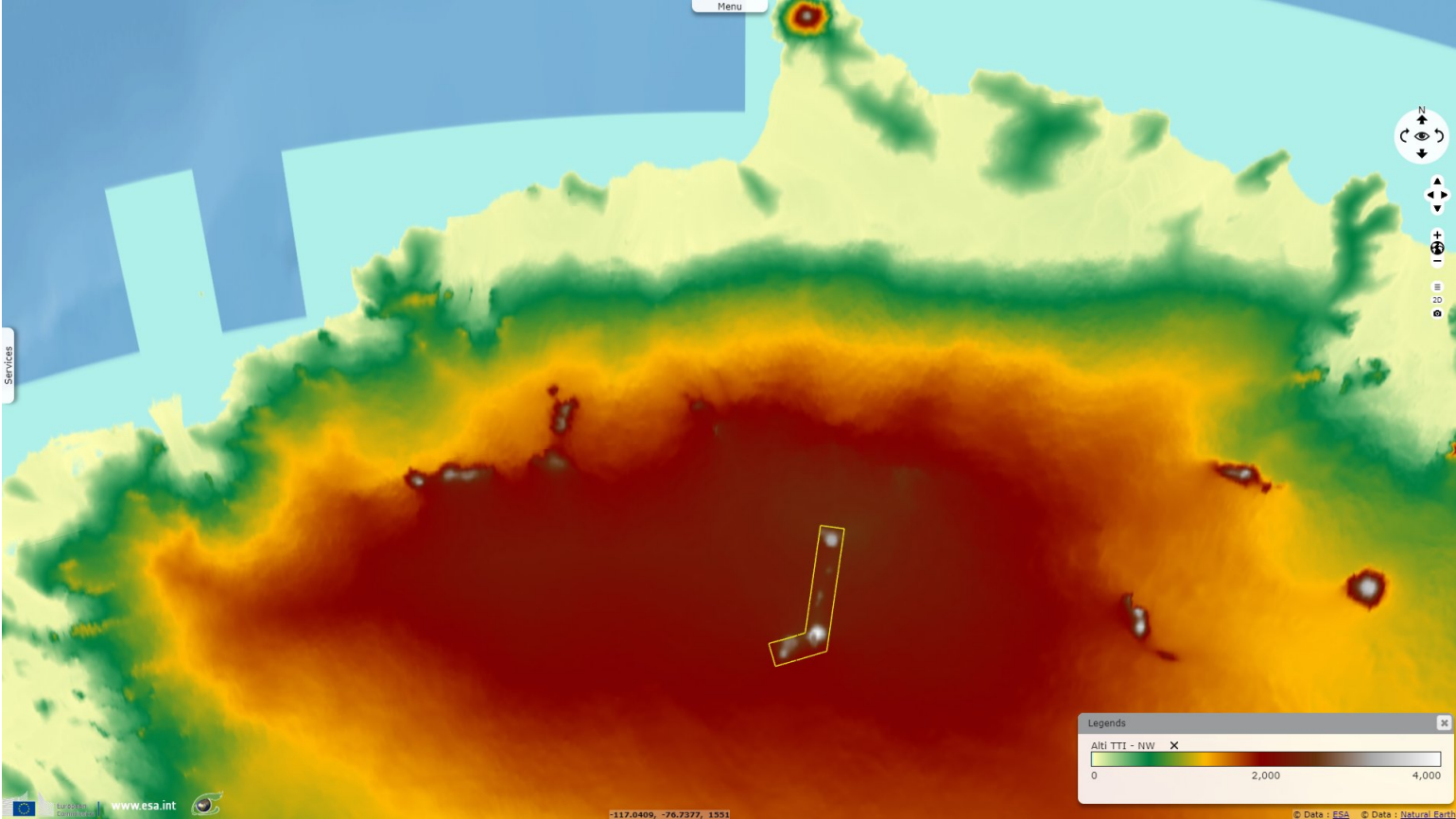
Keyword(s): Geohazard, polar, mountain range, volcano, hotspot, Antarctica



[2D Layerstack](#)

Fig. 1 - COP-DEM - Marie Byrd Land is an elevated plateau of high bed topography sustained by a Cenezoic hotspot.

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



The Executive Committee Range is a mountain range consisting of five major volcanoes, which trends north-south for 80 km

Fig. 2 - S1 (29.06.2022-23.07.2022) - Underground magmatic activity has been identified at the southern tip of this volcanic chain. [3D view](#)

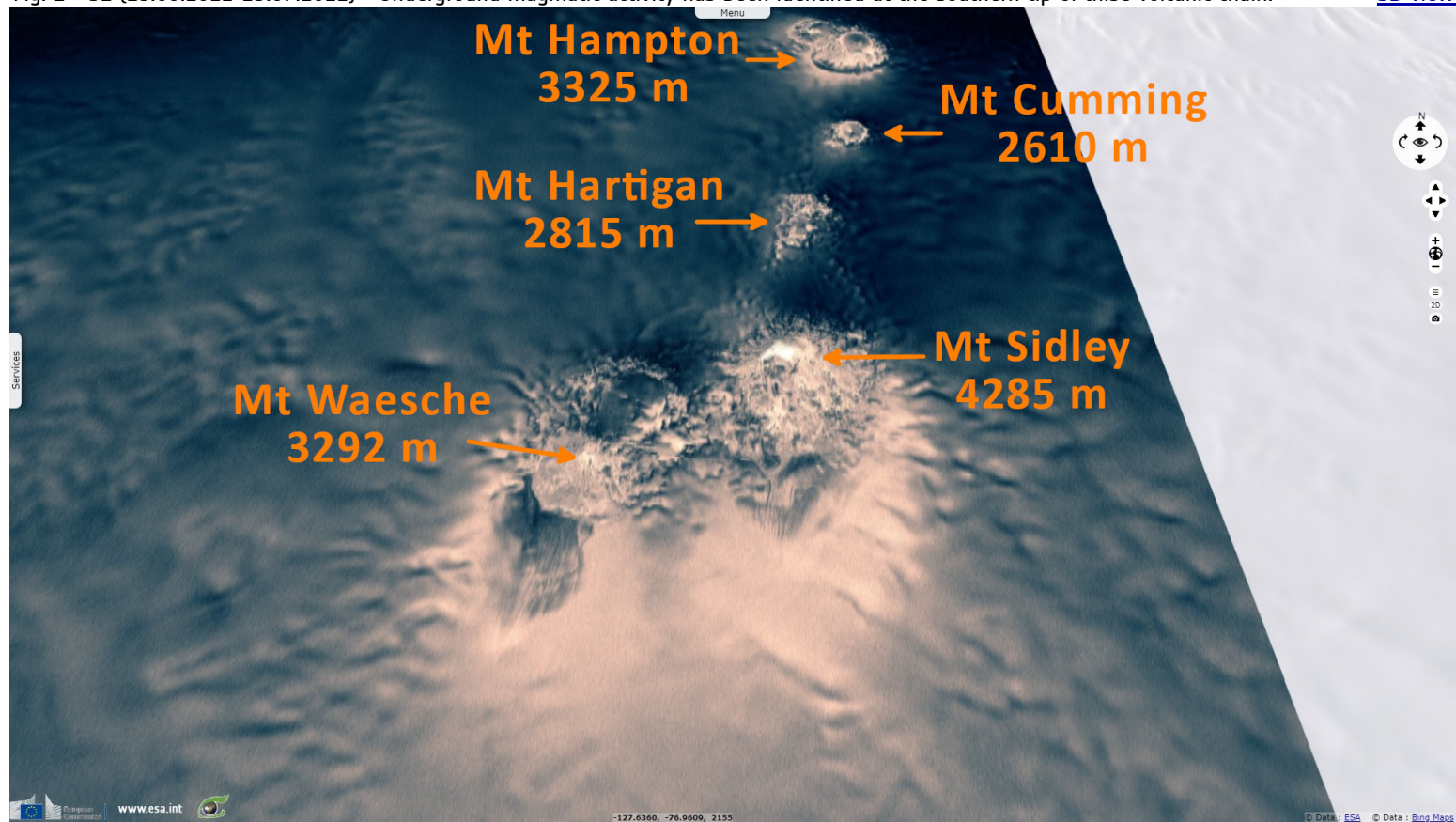
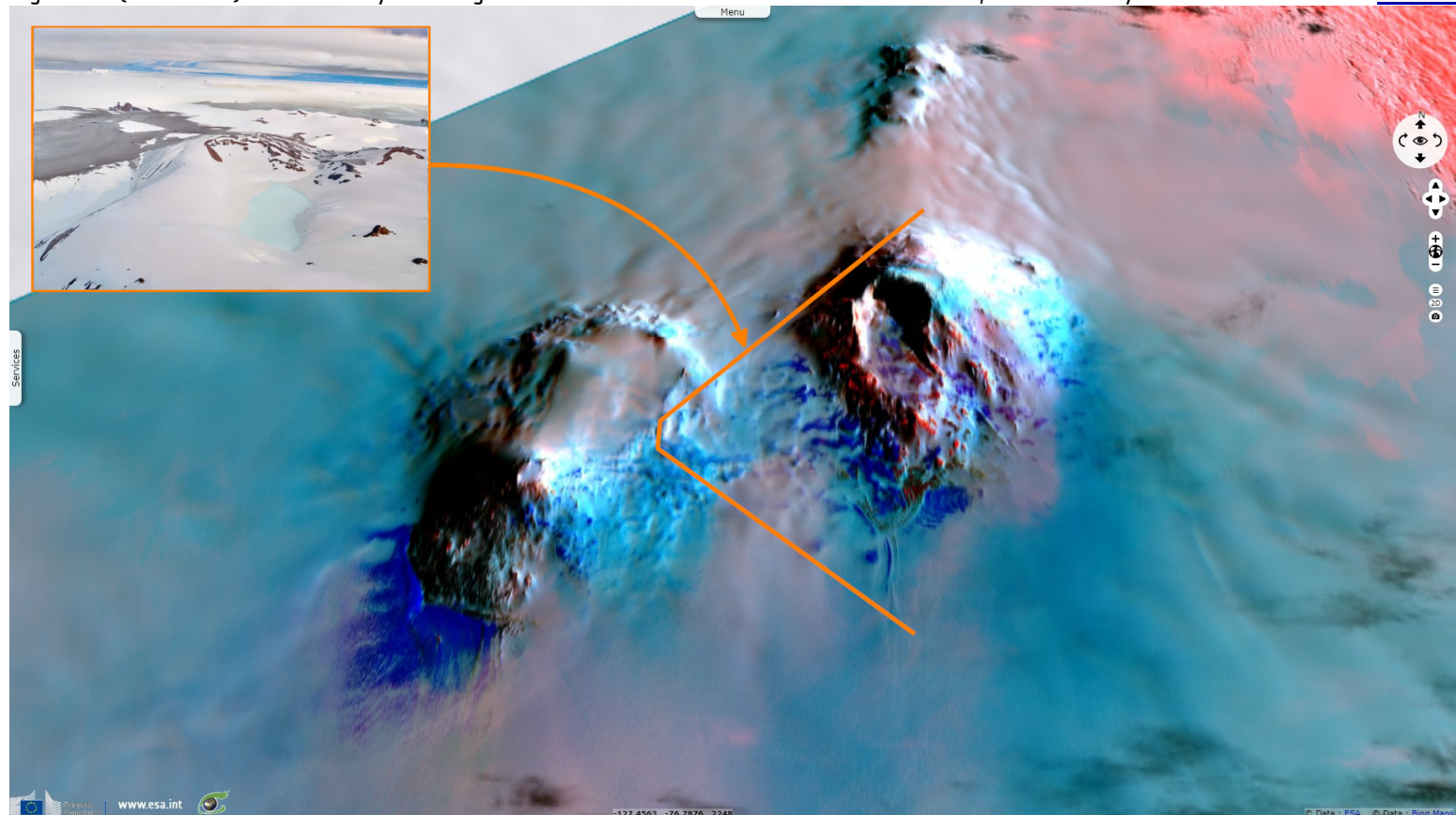














Fig. 3 - S2 (01.12.2021) - Mount Sidley is the highest volcano in Antarctica with a summit of 4285 m, it is marked by a 5 km wide caldera [3D view](#)



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