

Thermal anomaly and colour change at Mount Ruapehu caldera lake, New Zealand

Sentinel-2 MSI acquired on 19 February 2021 at 22:16:01 UTC
Sentinel-2 MSI acquired on 29 July 2021 at 22:16:11 UTC
Landsat8 OLI-TIRS acquired on 17 September 2021 at 22:00:16 UTC

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[2D Layerstack](#)

Fig. 1 - S2 (29.07.2021) - Located on the Northern Island, Mount Ruapehu is one of New Zealand's most active volcanoes.

[2D view](#)

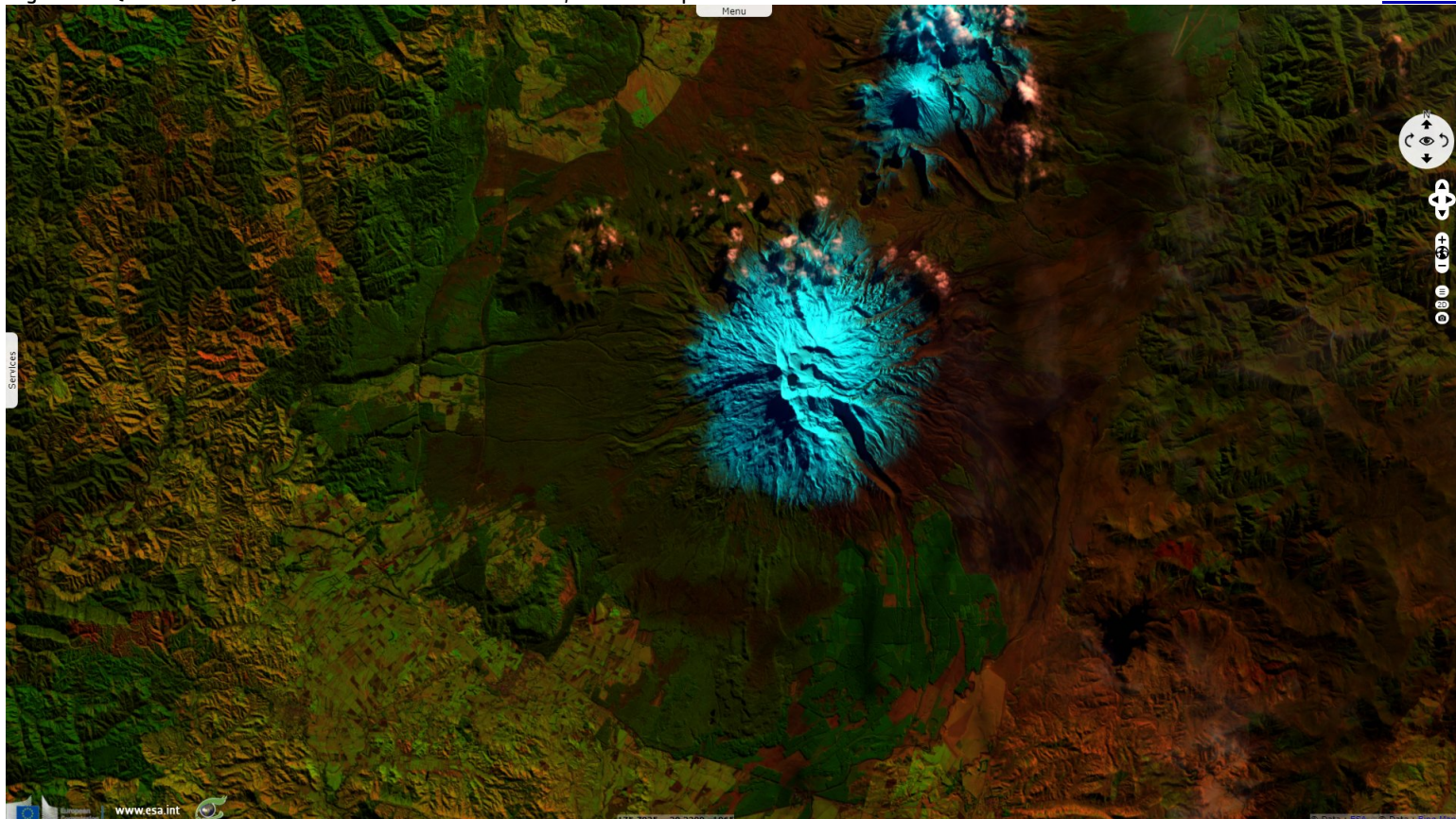


Fig. 2 - S2 (29.07.2021) - It now displays a grey caldera lake.

[3D view](#)

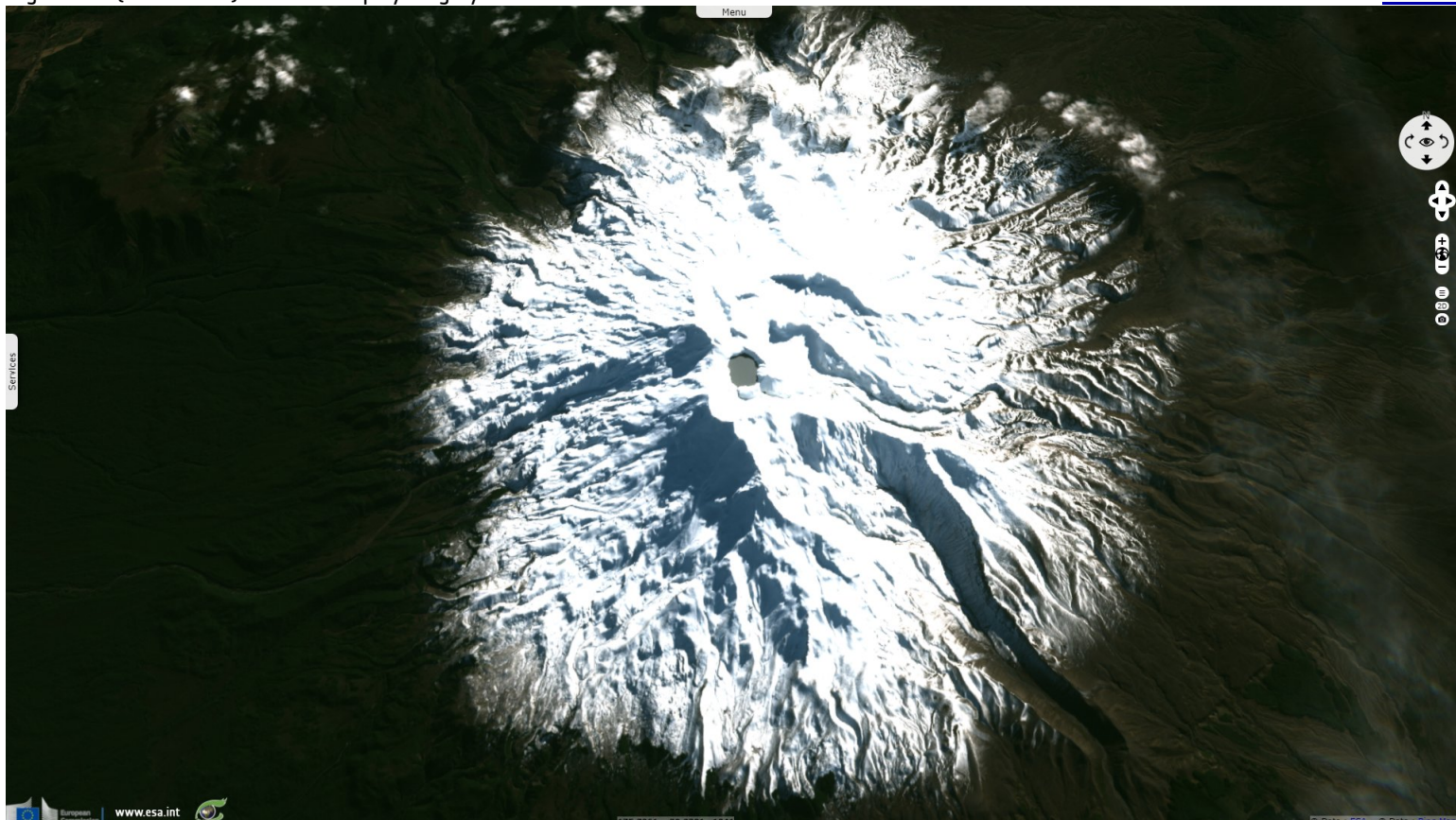


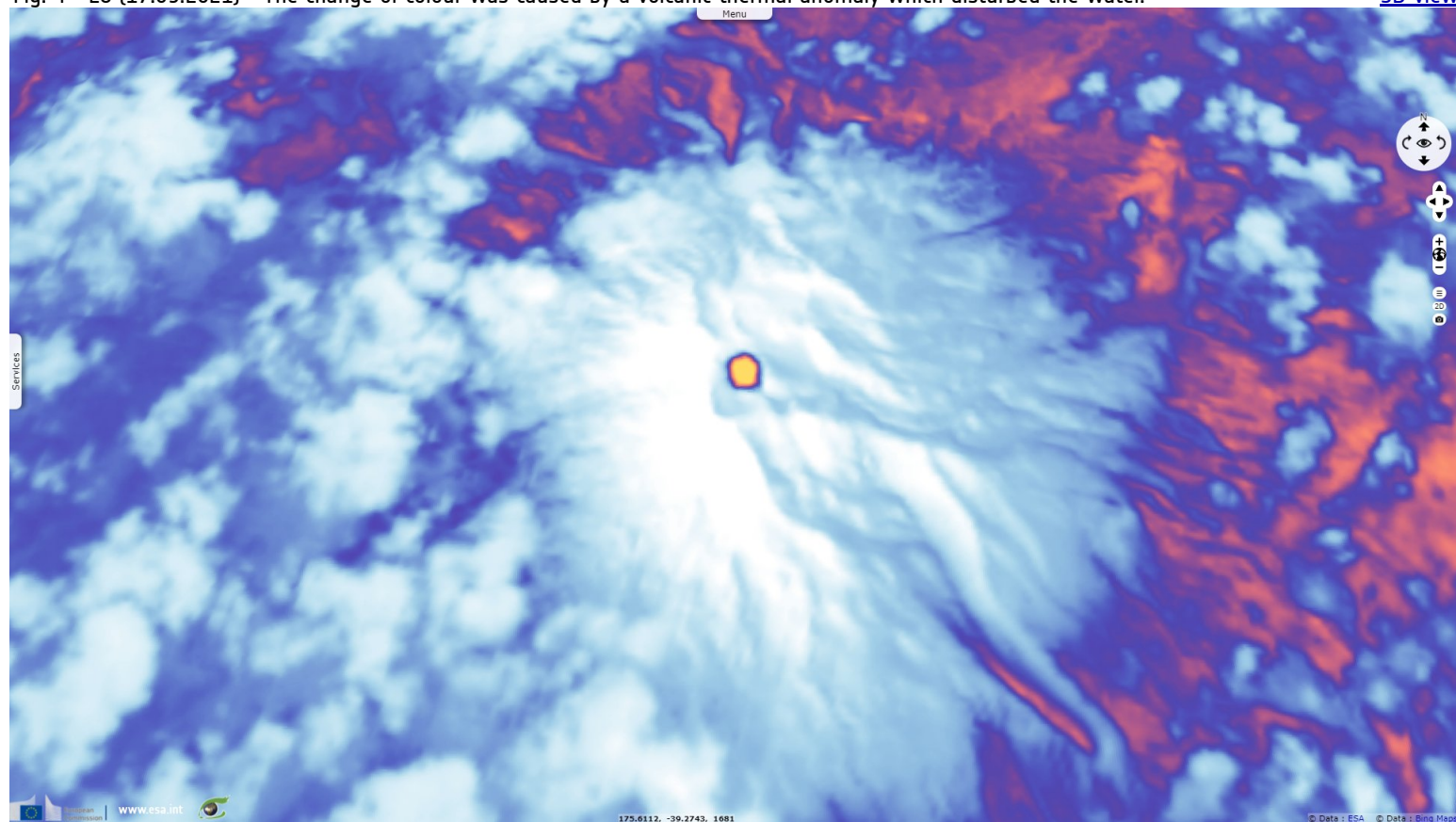
Fig. 3 - S2 (19.02.2021) - Its lake used to be bright blue.

[3D view](#)



Fig. 4 - L8 (17.09.2021) - The change of colour was caused by a volcanic thermal anomaly which disturbed the water.

[3D view](#)



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