

# Gosse's Bluff impact crater, Northern Territory, Australia

Sentinel-1 CSAR IW acquired on 17 June 2020 from 20:34:13 to 20:34:42 UTC

Sentinel-1 CSAR IW acquired on 22 June 2020 from 20:42:27 to 20:42:52 UTC

Sentinel-2 MSI acquired on 10 September 2020 at 01:17:31 UTC

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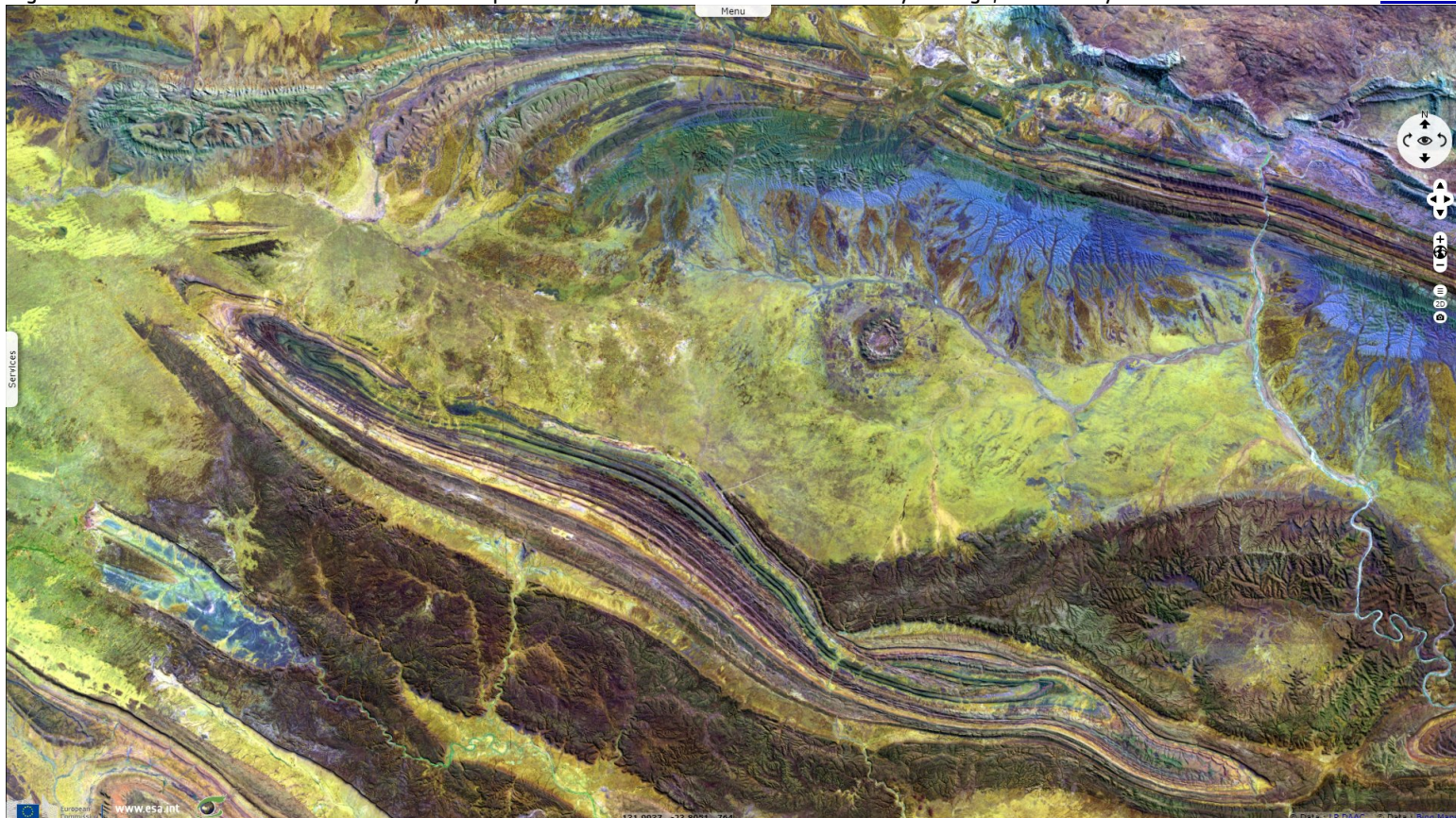
Keyword(s): Lake, impact crater, geology, mountain range, reserve, desert, Australia

[3D Layerstack](#)

Fig. 1 - S2 (10.09.2020) - Gosse's Bluff crater lies in the Australian Northern Territory, south of the MacDonnell Ranges (Tjoritja in Arrernte). [3D view](#)



Fig. 2 - Gosse's Bluff crater was formed by the impact of an asteroid or comet ~143 million years ago, in the early Cretaceous. [3D view](#)



The 650 km long MacDonnell range formed 300-350 million years ago. Erosion revealed distinct layers highlighted in vivid colours by SWIR bands.



Fig. 3 - The original crater rim was ~22km large. The 5km wide, 180m high central feature, is likely the eroded relic of the crater central uplift [3D view](#)

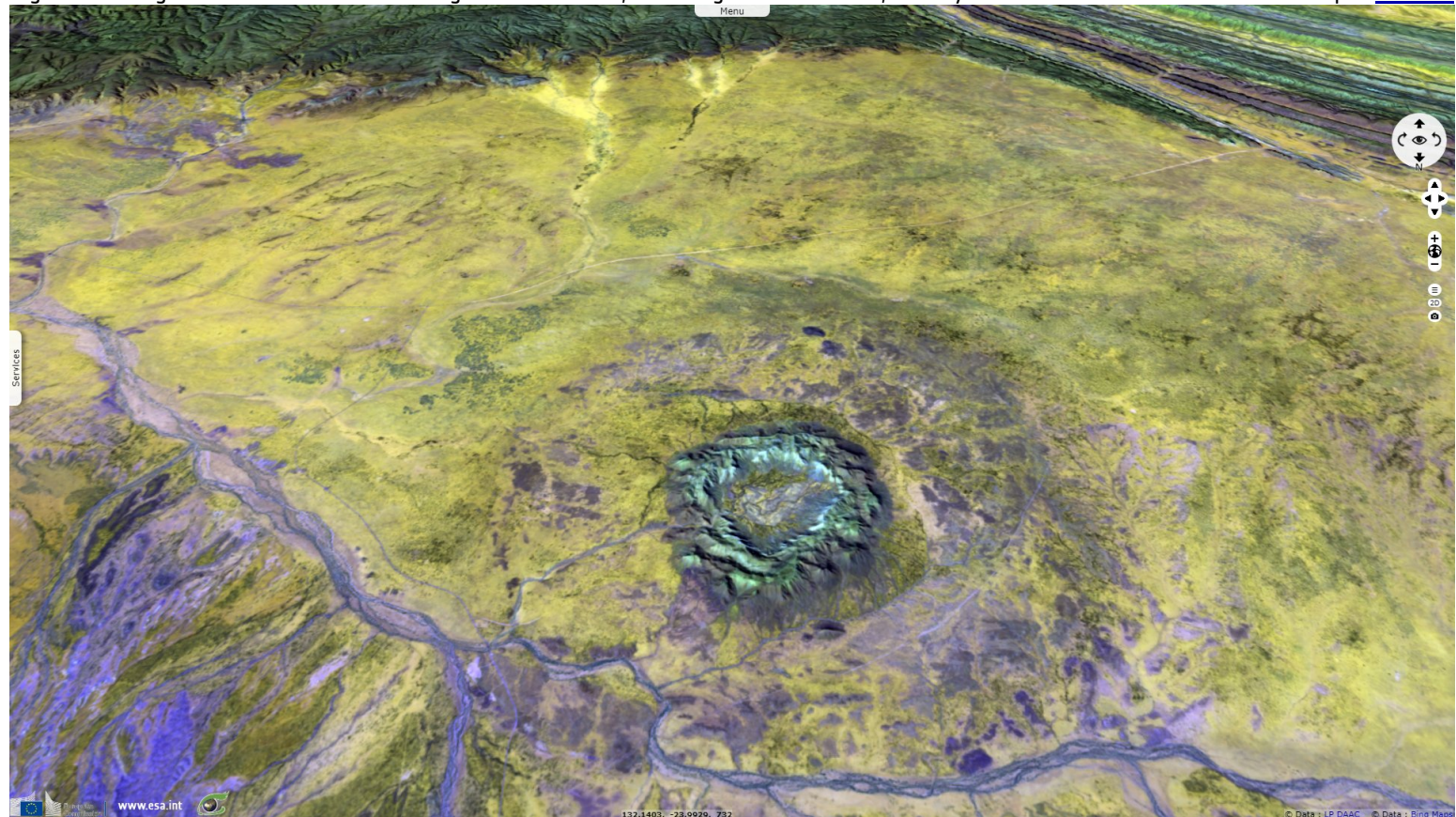
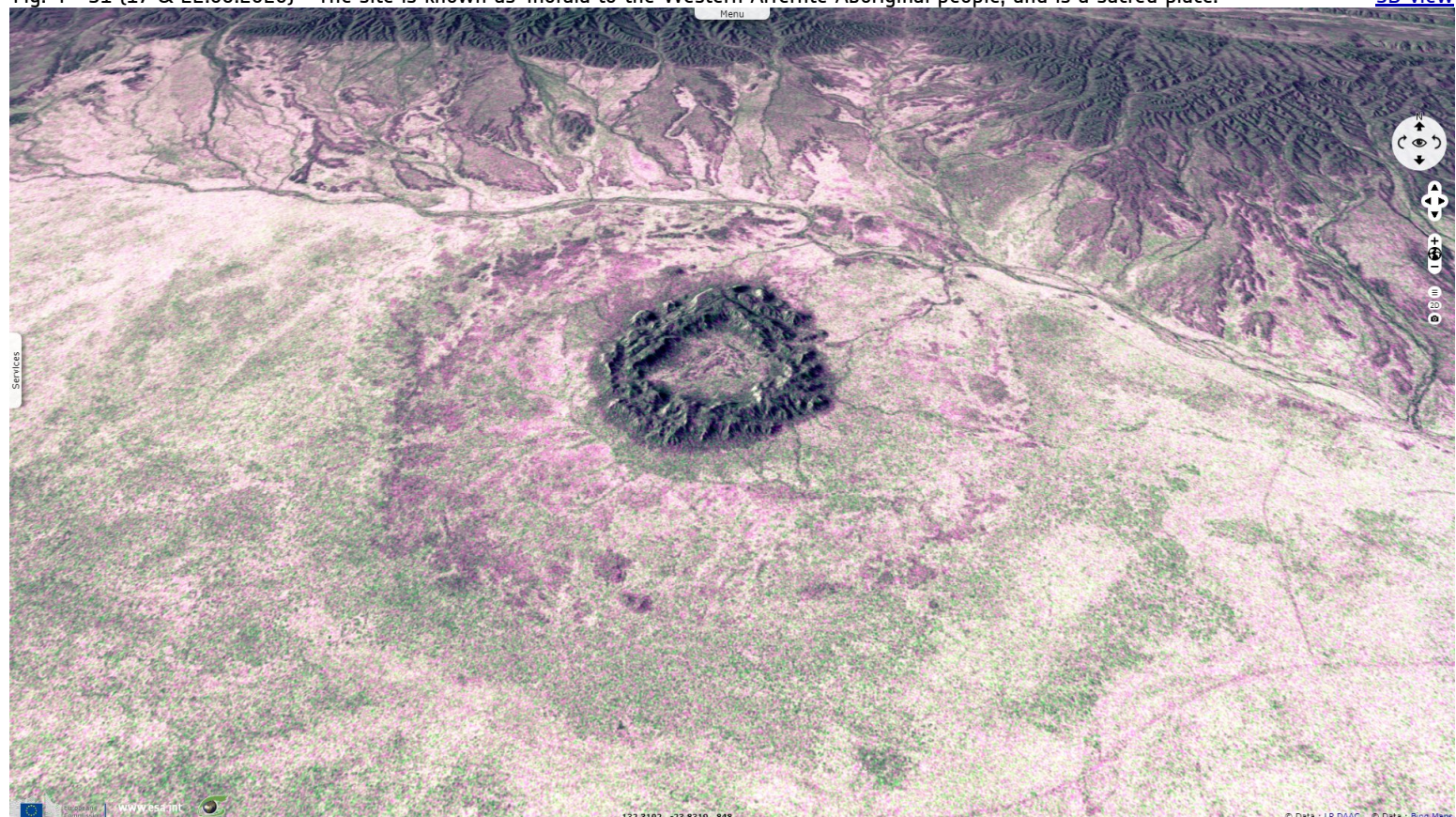














Fig. 4 - S1 (17 & 22.06.2020) - The site is known as Tnorala to the Western Arrernte Aboriginal people, and is a sacred place. [3D view](#)



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