

Lonar crater, a circular hole in the Indian Deccan Traps

Sentinel-2 MSI acquired on 07 January 2017 at 05:22:01 UTC
Sentinel-2 MSI acquired on 07 May 2017 at 05:16:51 UTC
Sentinel-1 CSAR IW acquired on 03 June 2018 at 00:46:03 UTC
Sentinel-1 CSAR IW acquired on 15 June 2018 at 00:46:04 UTC

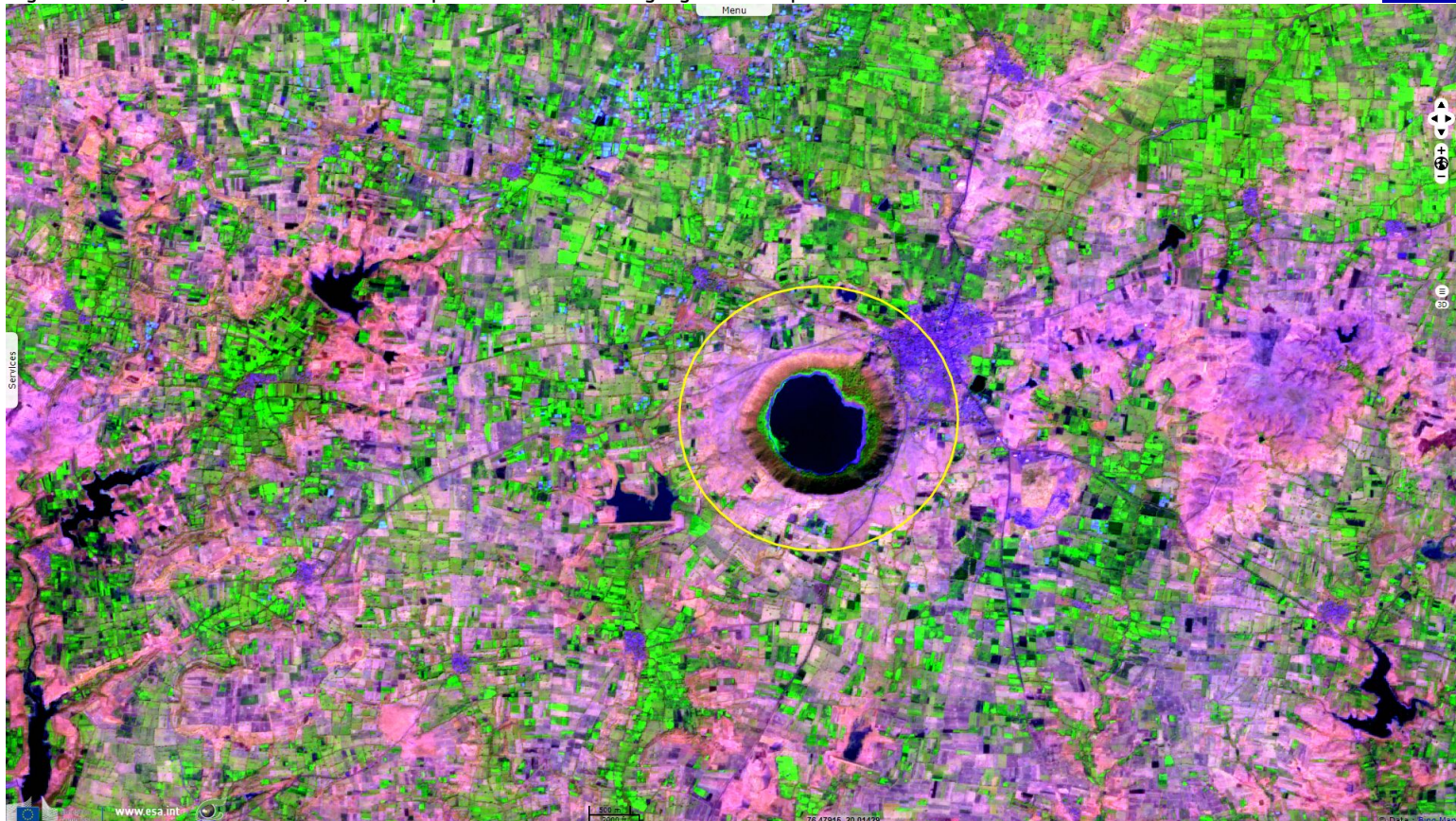
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Keyword(s): Crater, monsoon, precipitations, India

[2D Layerstack](#)

Fig. 1 - S2 (07.01.2017) - 11,8,2 colour composite - Winter sun highlights the depth of Lonar crater and its saline soda lake.

[2D view](#)



A meteor caused the 137m deep & 1.8km wide Lonar crater 50ky ago. Sited in the Deccan traps, it's the only hypervelocity impact crater in a basalt

Fig. 2 - S2 (07.05.2017) - 8,4,2 colour composite - Near the end of the dry season, nearby lake have lost in surface.

[2D view](#)

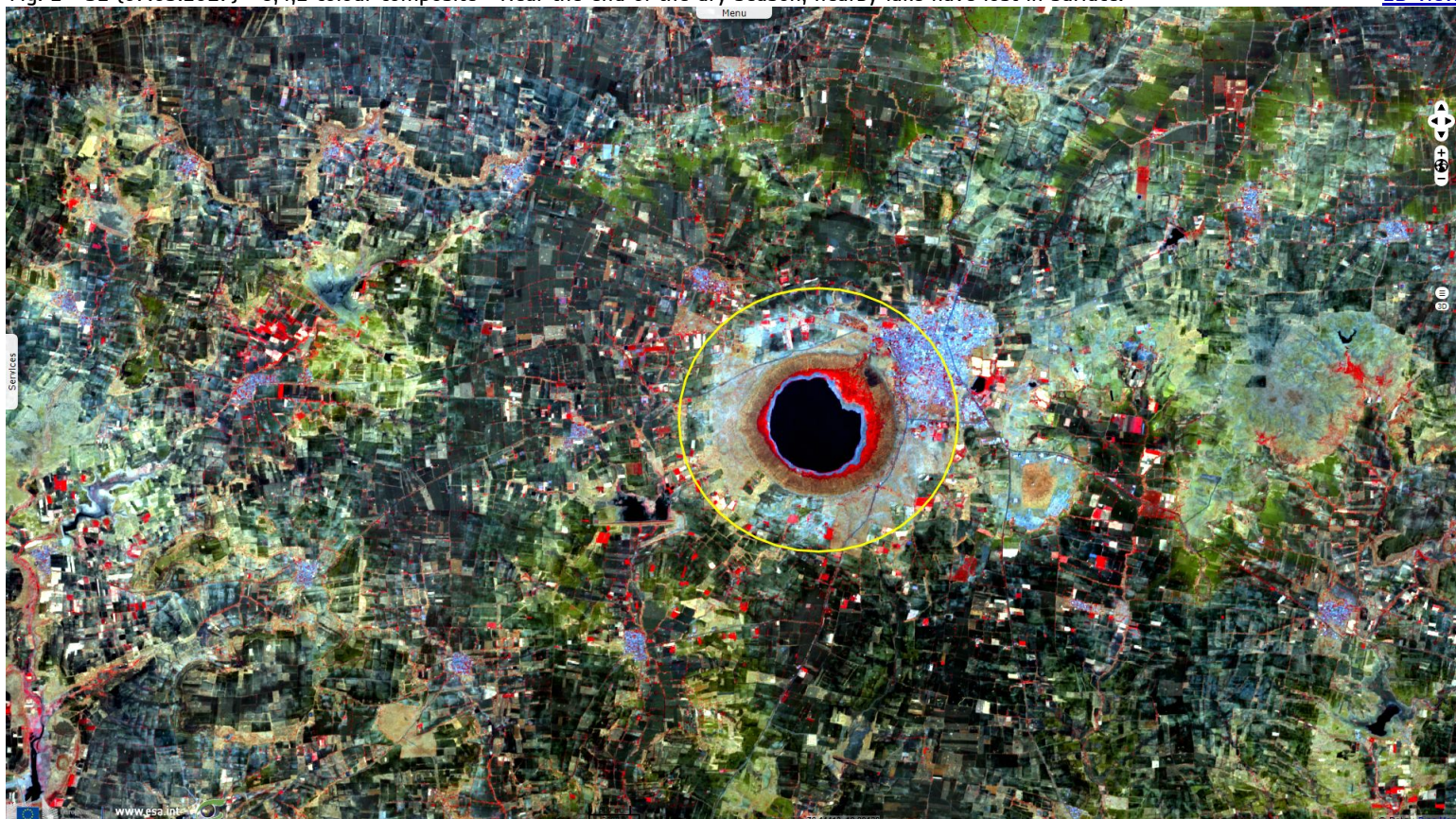


Fig. 3 - S1 (03.06.2018) - vv,vh,ndi(vh,vv) colour composite - Soon before monsoon precipitations, lakes were at their shallowest.

[2D view](#)

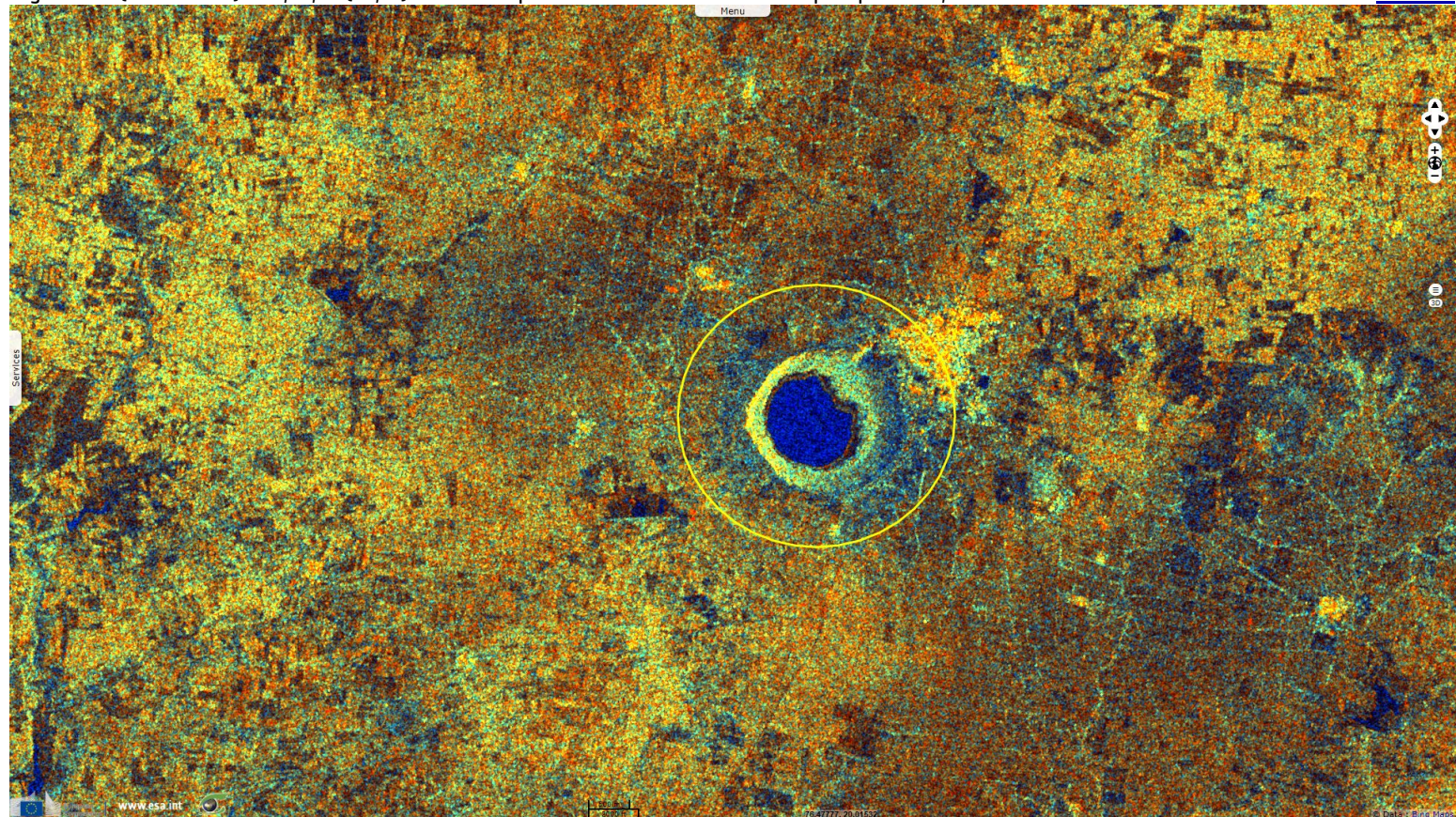
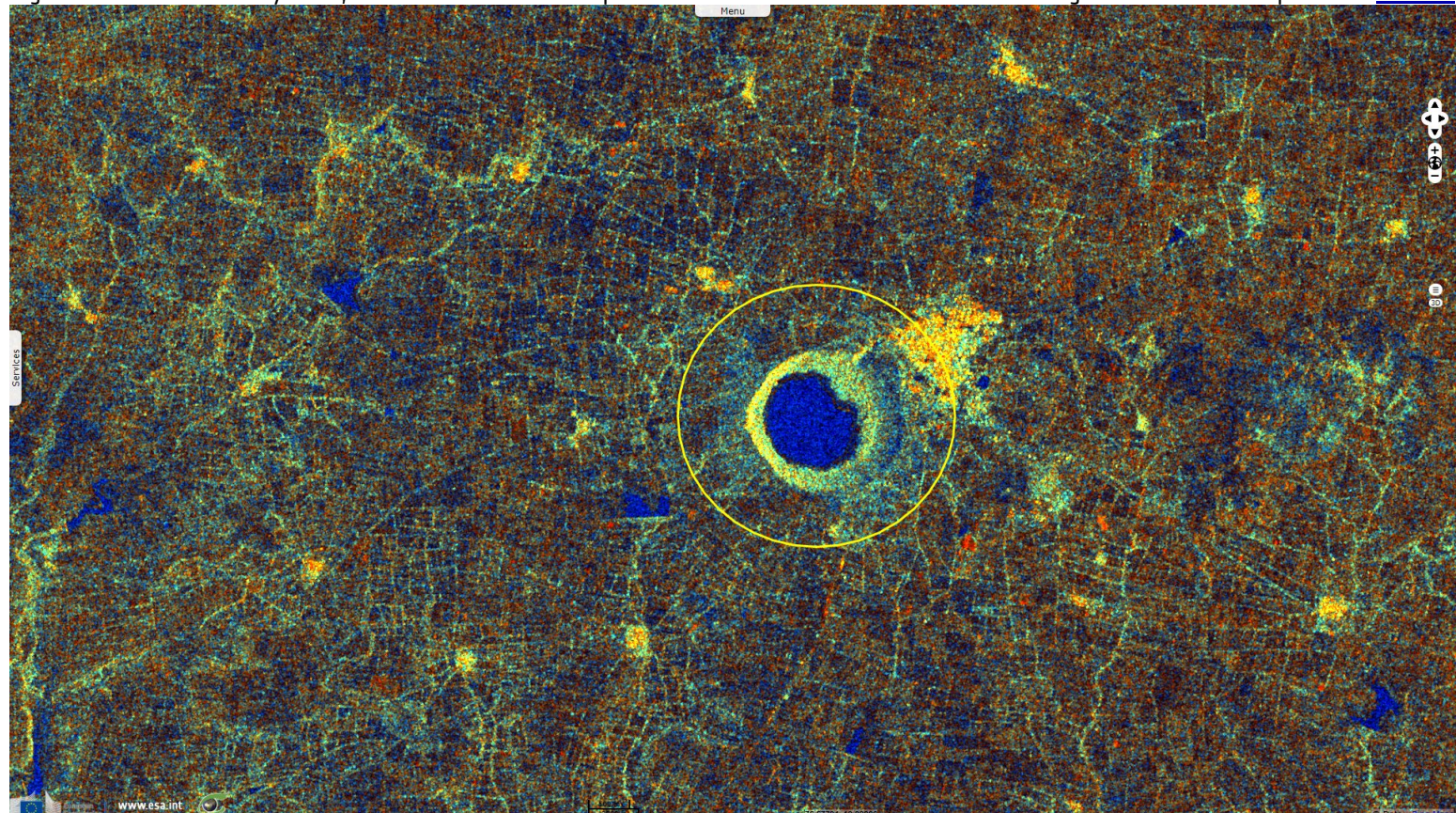


Fig. 4 - 15.06.2018 - 12 days later, monsoon rain has filled a part of Lunar crater & other lakes beds and changed the surface of cropland.

[2D view](#)



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