

Ojos del Salado, World's top volcano, Chile-Argentina

Sentinel-2 MSI acquired on 10 February 2019 at 14:27:49 UTC

Sentinel-1 CSAR IW acquired on 14 February 2019 from 23:12:22 to 23:12:47 UTC

Sentinel-2 MSI acquired on 18 February 2019 at 14:37:51 UTC

Sentinel-3 OLCI FR acquired on 26 December 2019 at 14:08:51 UTC

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[2D Layerstack](#)

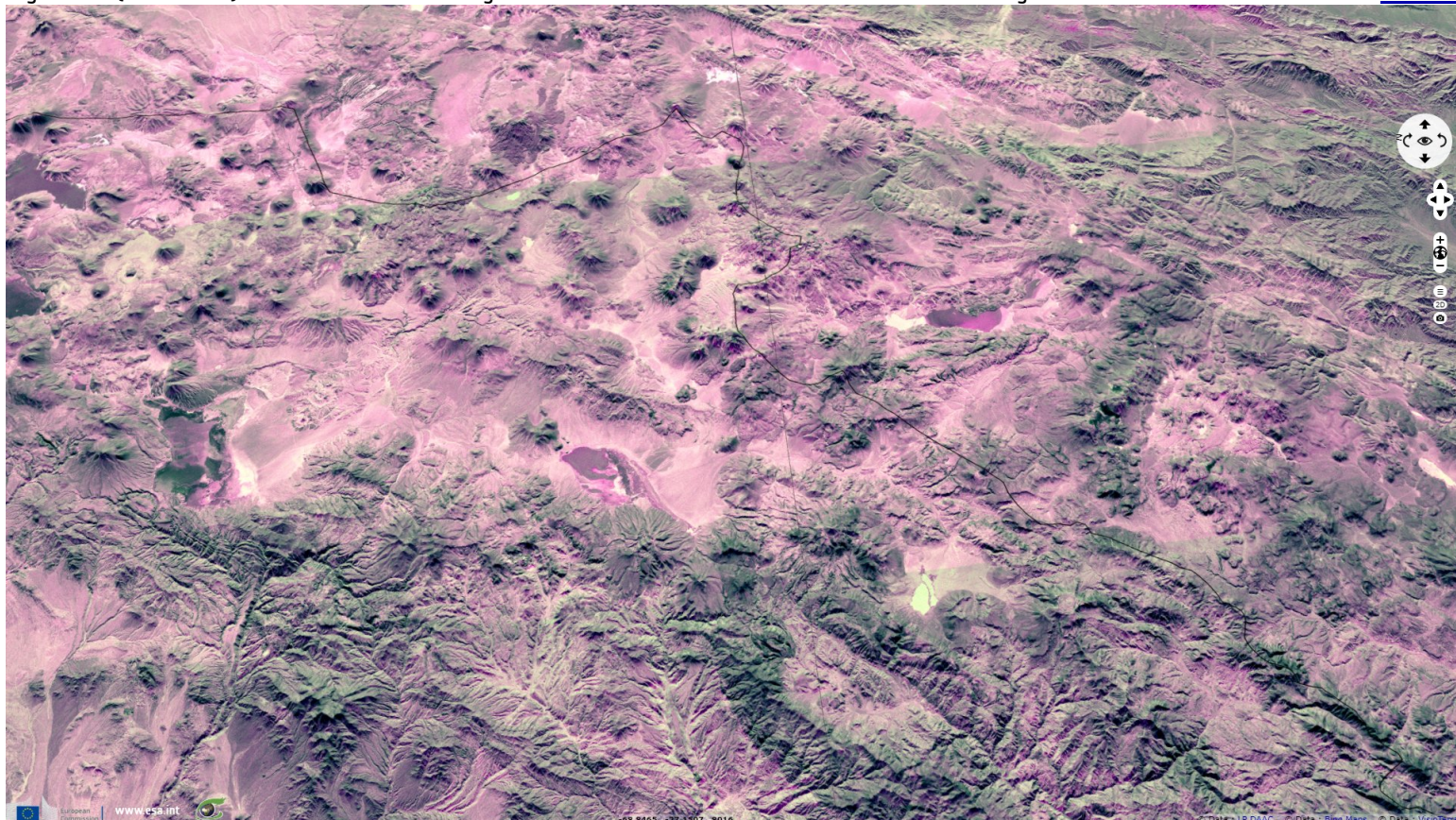
Fig. 1 - S3 OLCI (26.12.2019) - Ojos del Salado is an active stratovolcano in the Andes on the Argentina–Chile border.

[2D view](#)



Fig. 2 - S1 (14.02.2019) - relief x1.5 - It is the highest active volcano in the world at 6893 m and the highest summit in Chile.

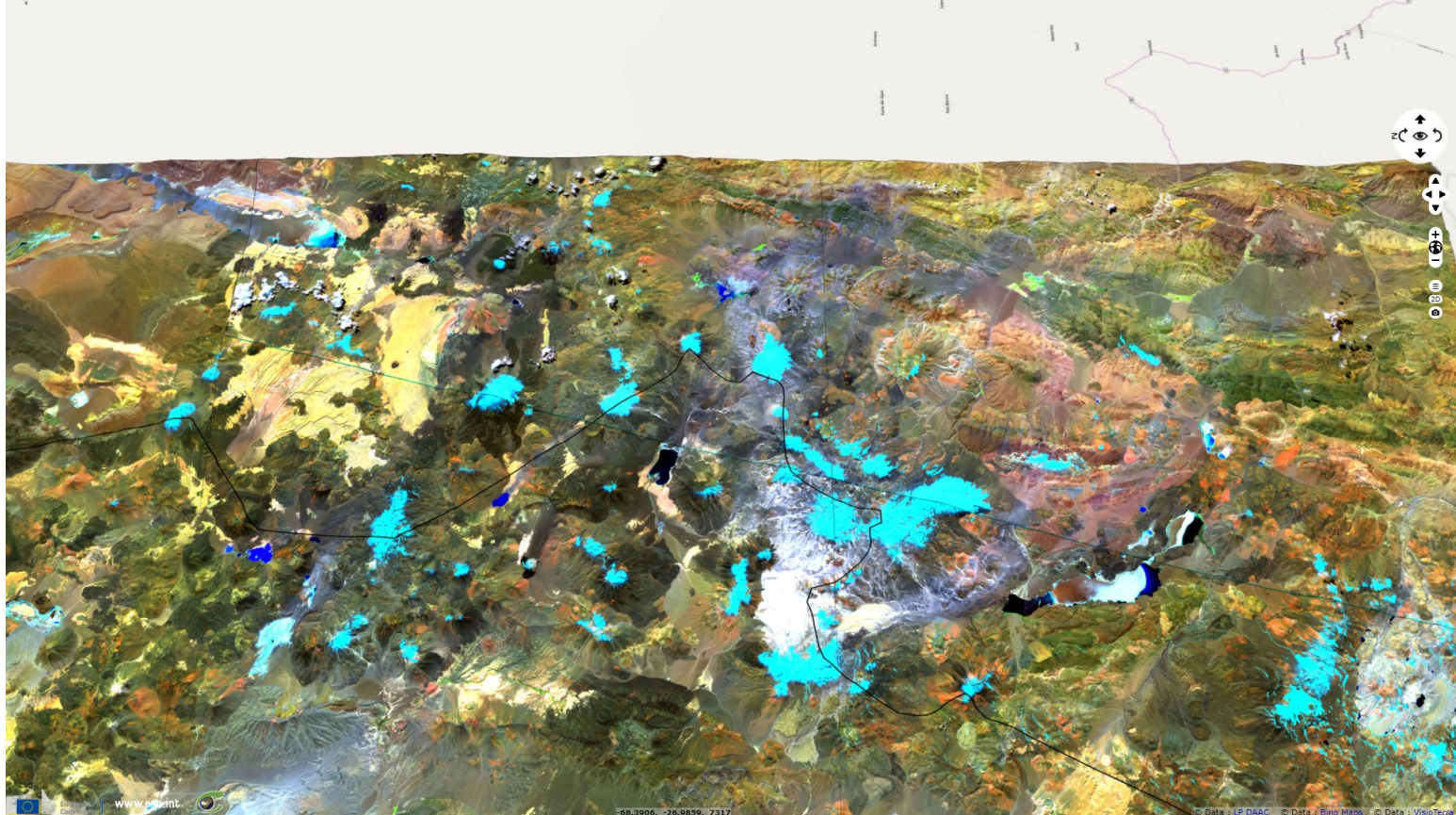
[3D view](#)



Starting 18 million years ago, local subduction of the Nazca Plate beneath the South America Plate became increasingly shallower and this caused volcanism to shift from the Maricunga Belt to the Ojos del Salado region.

Fig. 3 - S2 (10 & 18.02.2019) - Snow usually only remains on the peak during winter due to the extreme dryness of the Atacama Desert.

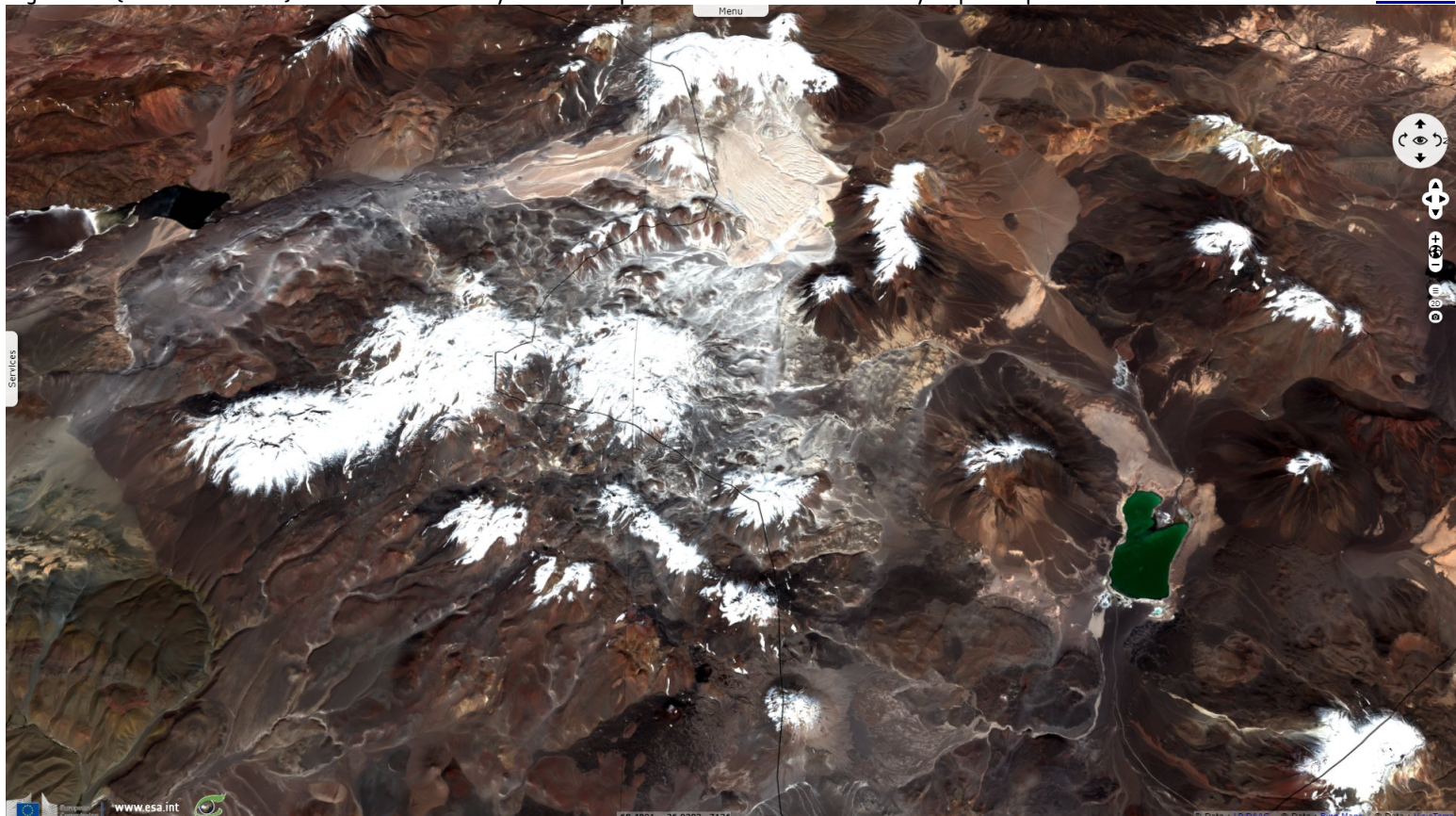
[3D view](#)



It encompasses a permanent crater lake about 100m wide at an elevation of 6390m, on the eastern side of the mountain. This is presumably the highest lake in the world.

Fig. 4 - S2 (10 & 18.02.2019) - Its ascent is mostly a hike except for the final section that may require ropes.

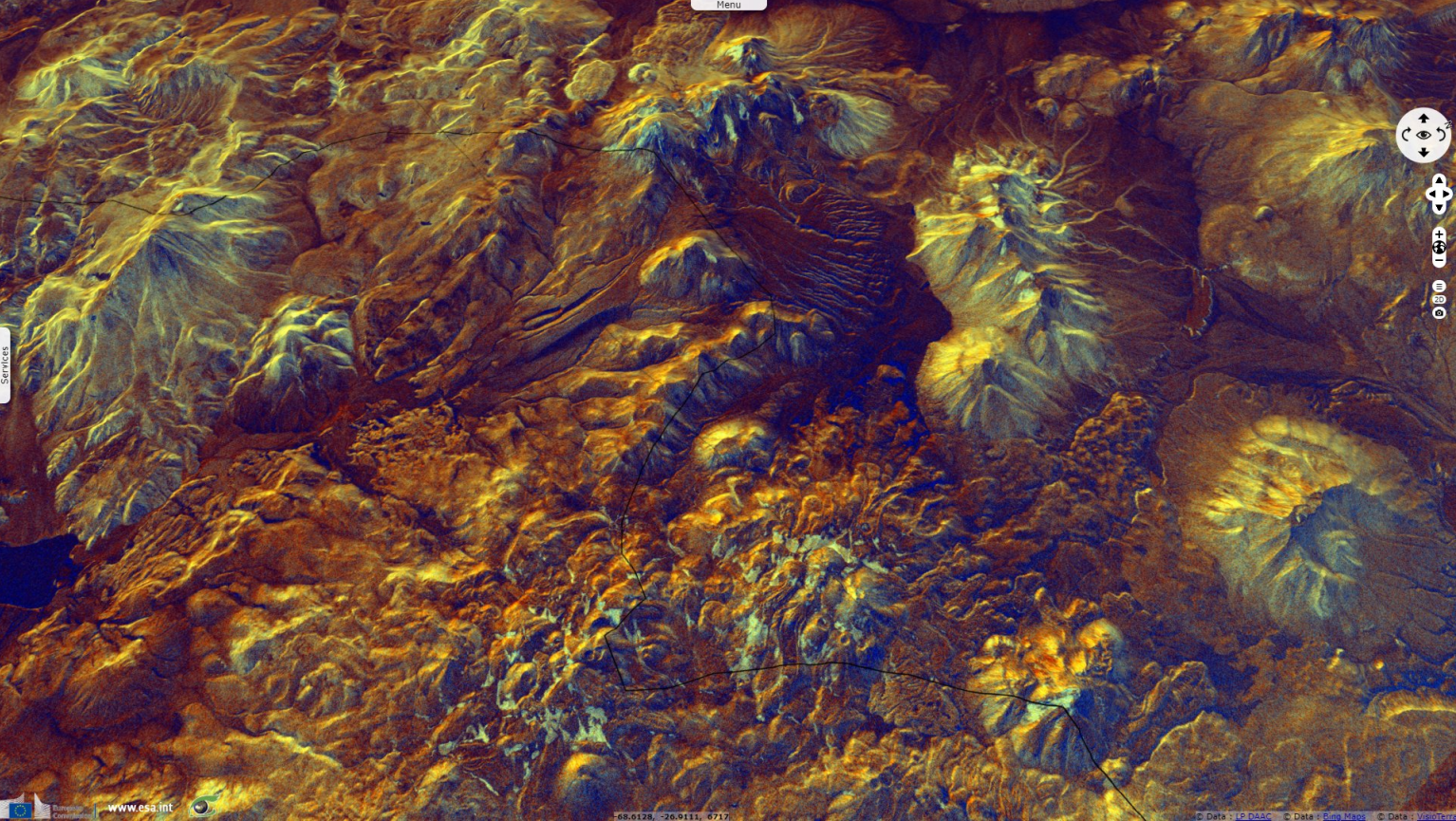
[3D view](#)



The first ascent was made in 1937 by Jan Alfred Szczepański and Justyn Wojsznis, members of a Polish expedition in the Andes.

Fig. 5 - S1 (14.02.2019) - Ojos del Salado like other major neighbouring mountains is a complex of lava domes and lava flows.

[3D view](#)



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