

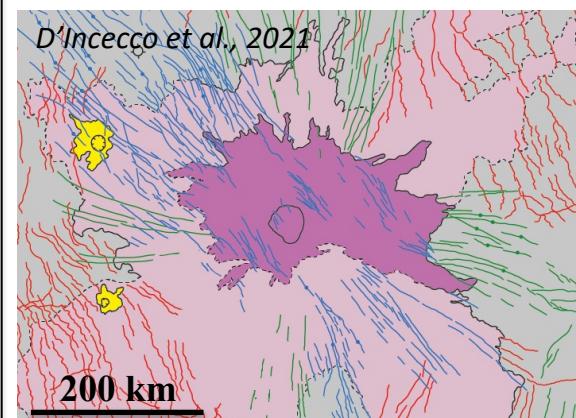
Idunn Mons: Evidence for Ongoing Volcano-tectonic Activity and Atmospheric Implications on Venus

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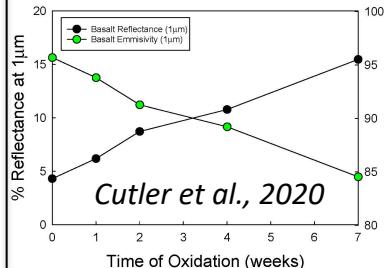
Venus Exploration Analysis Group Science Nugget

Geologic mapping

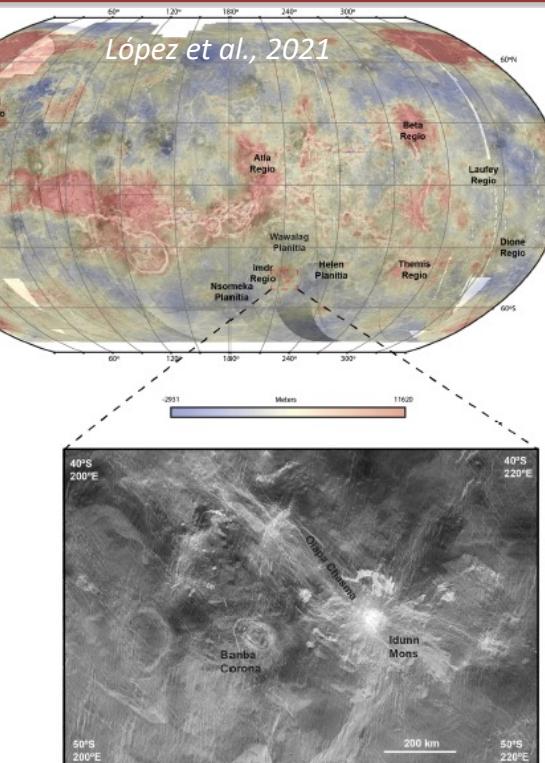


Simplified geologic map of the Olapa Chasma Idunn Mons volcano-tectonic system. Purple unit indicate the youngest lava flows

Infrared laboratory analyses

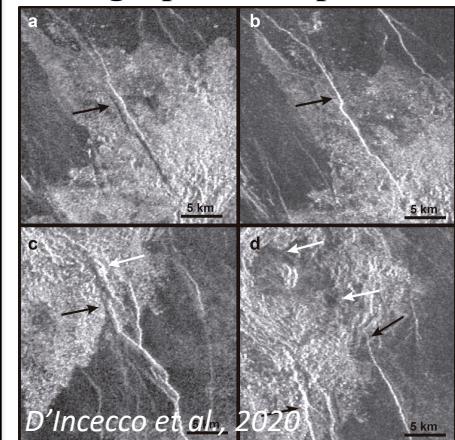


Visible to Near Infrared Reflectance spectroscopy for experimentally oxidized basalt data.



We take a comprehensive approach, using atmospheric to surface measurements including recent laboratory experiments, to resolve the age and evolution of Idunn Mons. Our work suggests that Idunn Mons may be volcanically and tectonically active today.

Stratigraphic interpretation



Fractures and graben intersecting Sandel crater ($45.7^{\circ}\text{S}/211.7^{\circ}\text{E}$). White arrows indicate fractures and graben postdating the impact units, black arrows indicate uncertain stratigraphic interrelationships.

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