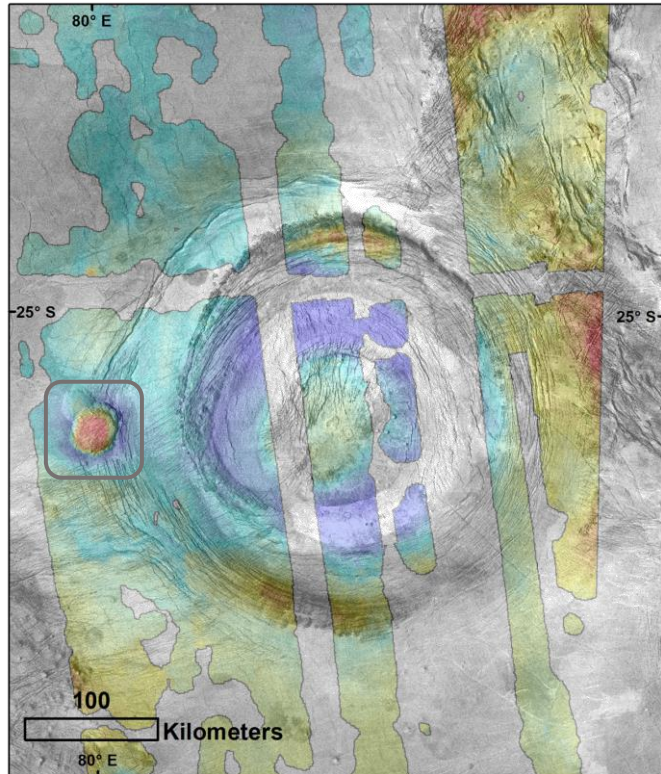
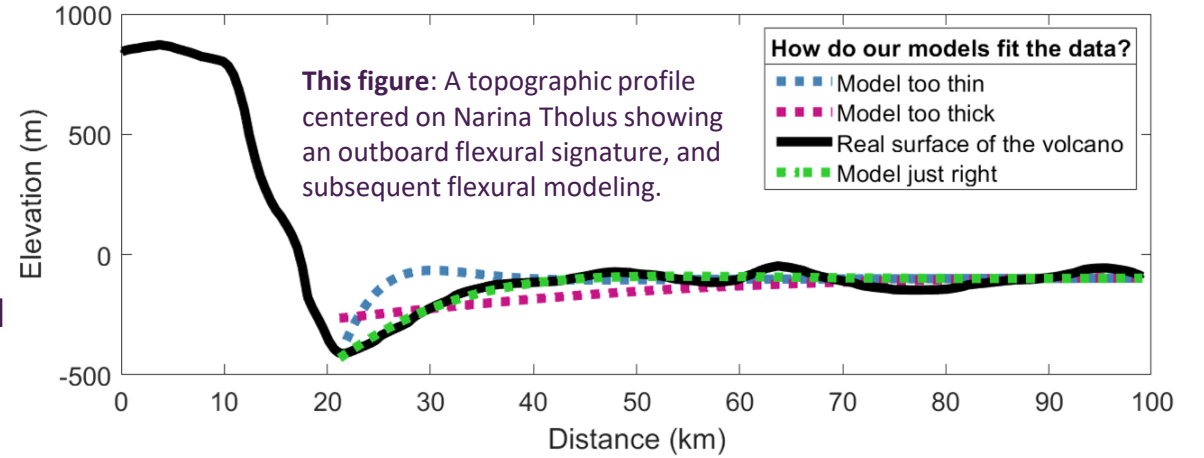


EVIDENCE FOR A LOCALLY THINNED LITHOSPHERE ASSOCIATED WITH RECENT VOLCANISM AT ARAMAITI CORONA, VENUS

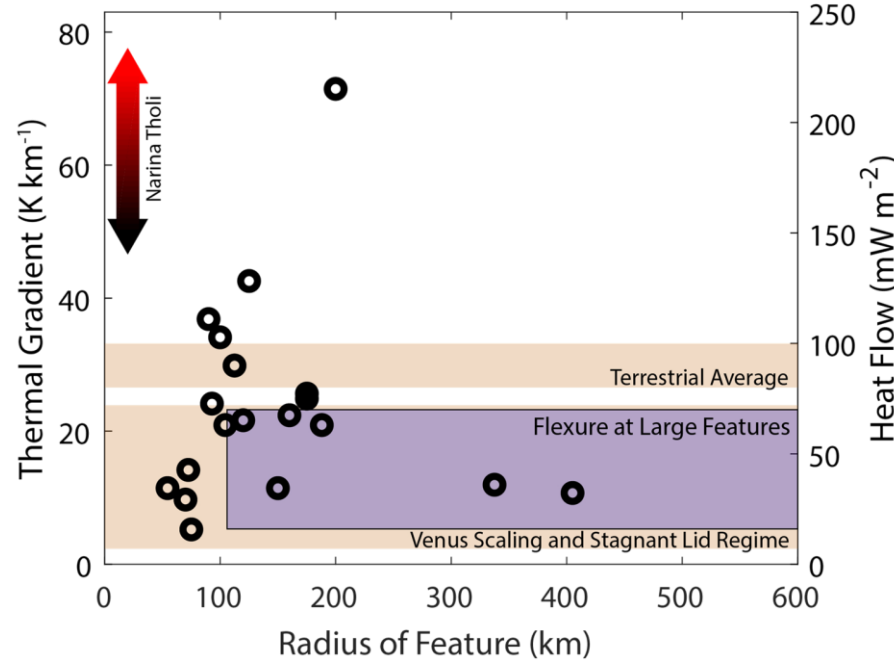
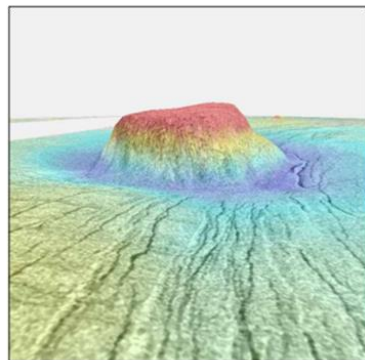
M. B. Russell and C. L. Johnson *Journal of Geophysical Research: Planets*

- We investigate lithospheric flexure at Narina Tholus, a small volcanic dome on the annulus of Aramaiti Corona, Venus.
- Locally thin lithosphere and high heat flow reflect late stage, possibly recent, magmatism, facilitated by the corona annulus fractures.
- We find that the local heat flow enhancement at Narina is unusual but could be detected elsewhere with global high-resolution topography.



Left: Aramaiti Corona and Narina Tholus (image center left). Data is Magellan SAR image (grayscale) overlain on stereo SAR-derived topography. Elevations are color-coded high (red) to low (blue).

Below: Perspective zoom of Narina Tholus.



The resulting heat flow ($149\text{--}218 \text{ mW m}^{-2}$) at Narina Tholus is two to four times that of the regional background and is larger than heat flows obtained for all but one feature in previous studies of topographic flexure.