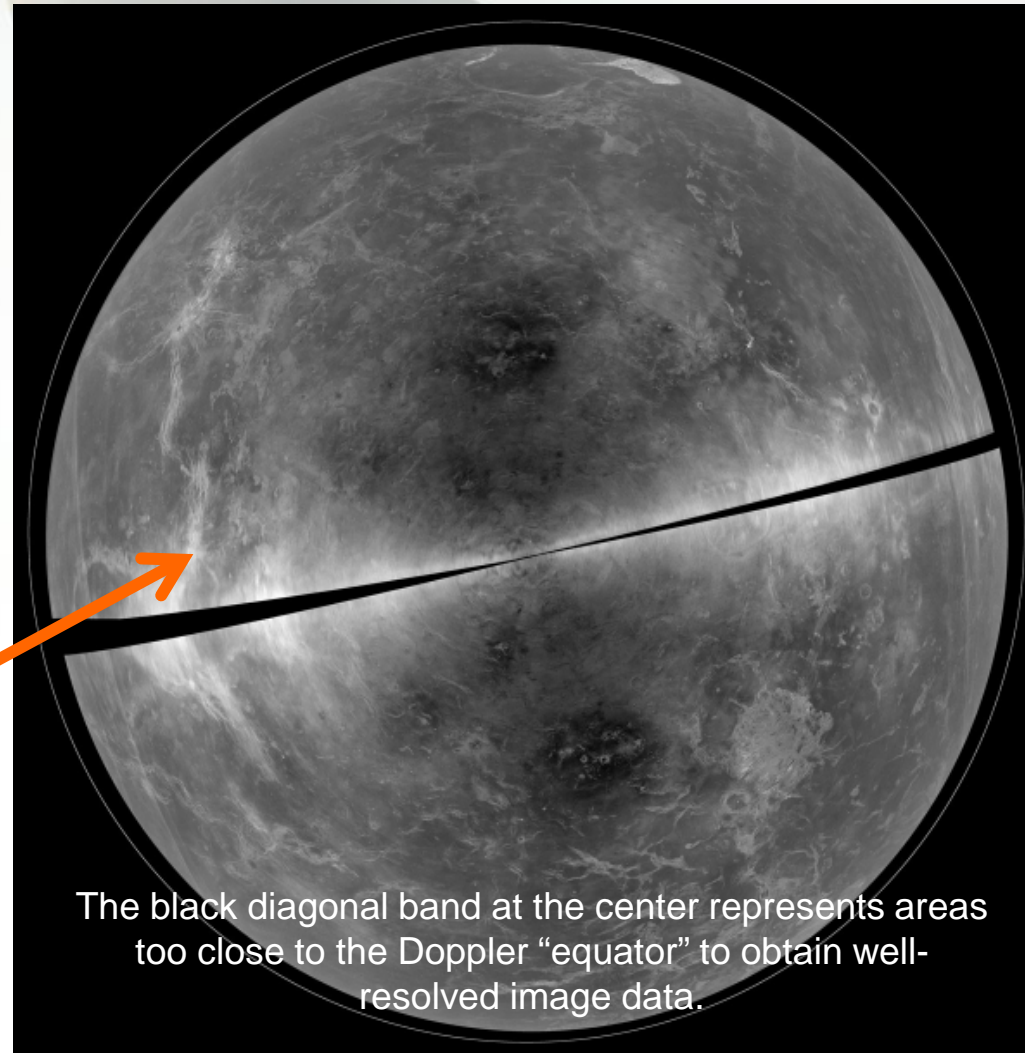


Powerful Earth-based Radars Used to Observe Venus' Surface to Look for Changes

- Recent findings from the Venus Express mission found possible evidence of changes on Venus, that may be related to volcanic activity
- Combining the highly sensitive receiving capabilities of 100 m diameter NSF/Green Bank Telescope and the powerful radar transmitter at the NSF/Arecibo Observatory (funded by NASA), planetary scientists were able to make remarkably detailed images of the surface of Venus
- Striking surface features like ridges and mountains are seen.
- The resolution obtained was 1-2 km vs. ~ 100 m from orbiting spacecraft
- Detailed comparisons are currently underway



The black diagonal band at the center represents areas too close to the Doppler "equator" to obtain well-resolved image data.