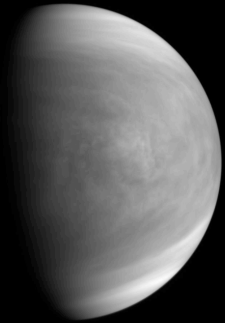


# Long-term variation of Venus' 365-nm albedo



A major change in the measured albedo of Venus during just over a decade of observations was observed by multiple spacecraft, but the compound causing this absorption is unknown, indicating better long-term global measurements of Venus are needed.

Lee et al. (2019) *Astronomical Journal*.

- A 2-fold change between 2006-2018 in the 365-nm albedo measured by Venus Express and Akatsuki.
- This change is related to significant changes in solar heating, as 30-60% of energy deposition occurs due to this absorber, and may be the reason for observed long-term mean zonal cloud level circulation changes.
- Solar activity may have affected the abundance of this unknown absorber, or new aerosol formation may result in albedo changes.

