

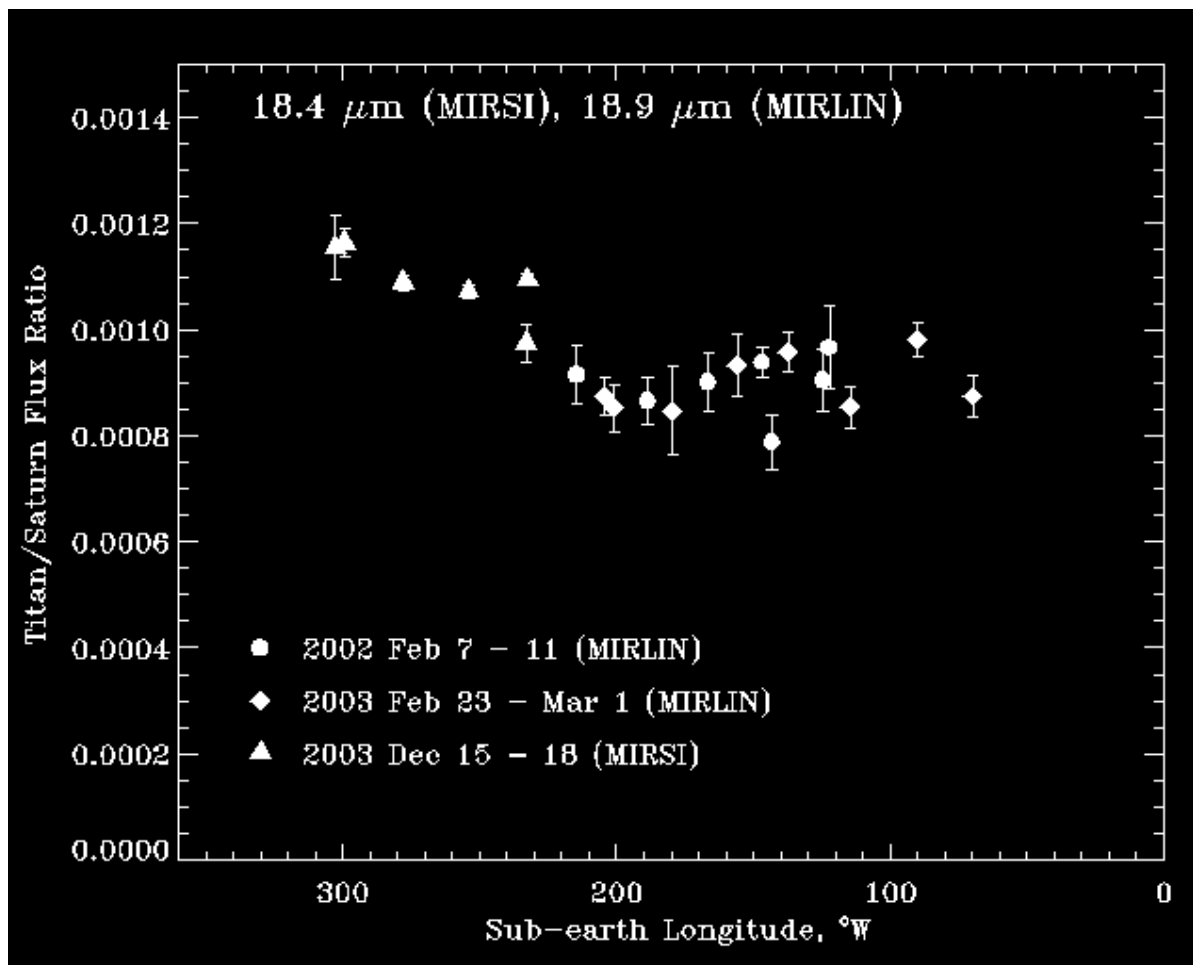
Warm Spots on Titan?

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Emission from Titan at 18-20 microns is sensitive to surface emission. A series of observations showed variable surface emission. There appears to be a slight enhancement at the sub-Earth longitude of 100° near the location of surface features with bright radar and near-infrared reflectivity.

A recent observing run provided reasonably definitive confirmation that there is enhanced 18 micron emission near the sub-earth longitudes of 100° . This is shown in the next slide.



Our results seem to imply that there are regions on Titan that:

- (2) Have higher emissivity than other regions, or
- (3) Are warmer because they are deeper down in Titan's troposphere, or
- (4) Are warmer because some process is exposing warmer material from Titan's interior.