


# Observation of a Total Eclipse of the Moon at 183 GHz

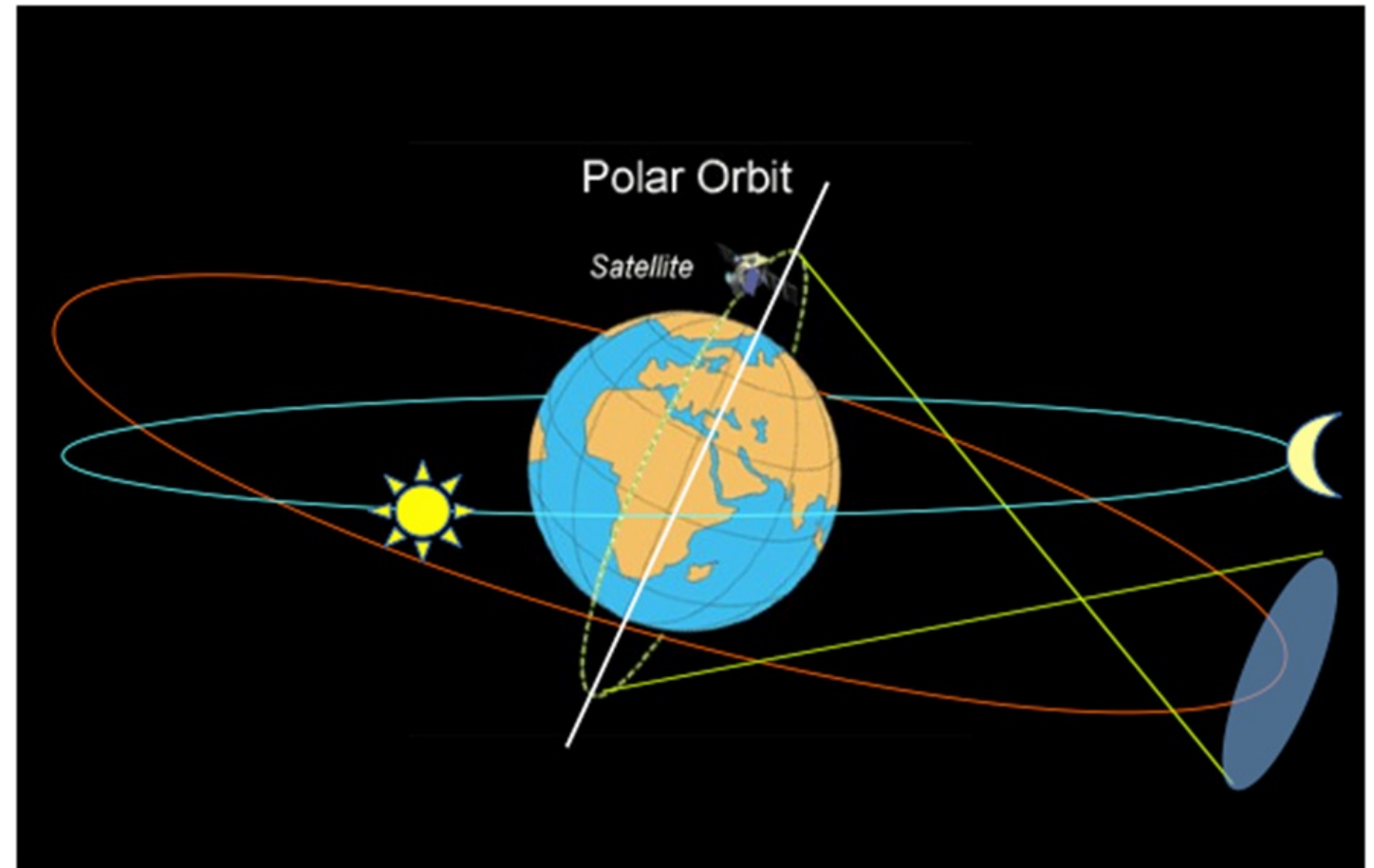
M. J. Burgdorf, N. Liu, S. A. Buehler, Y.-Q. Jin



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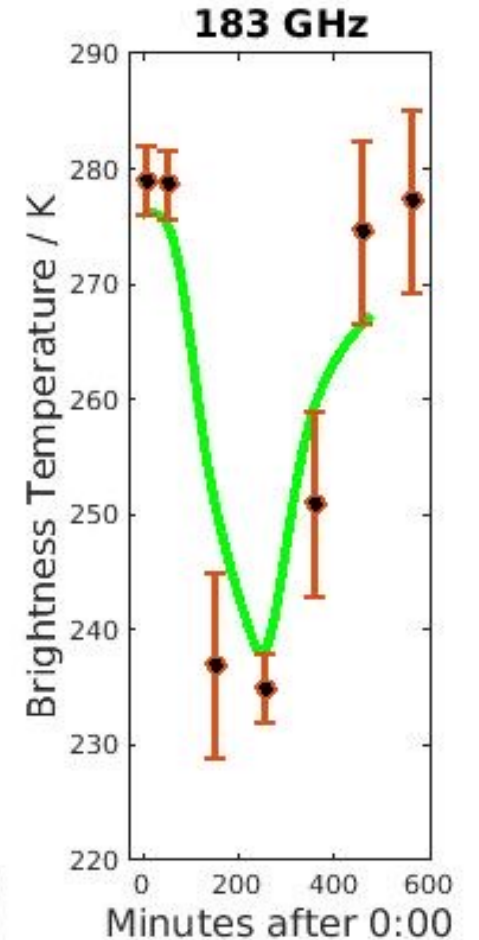
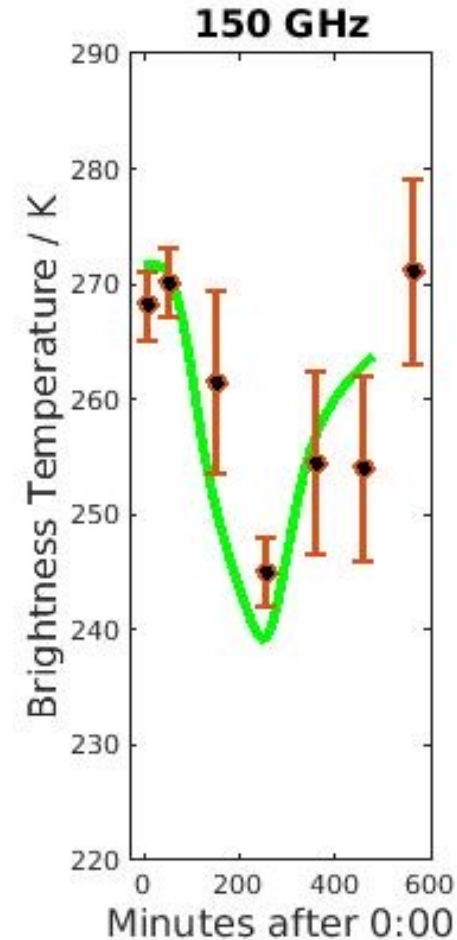
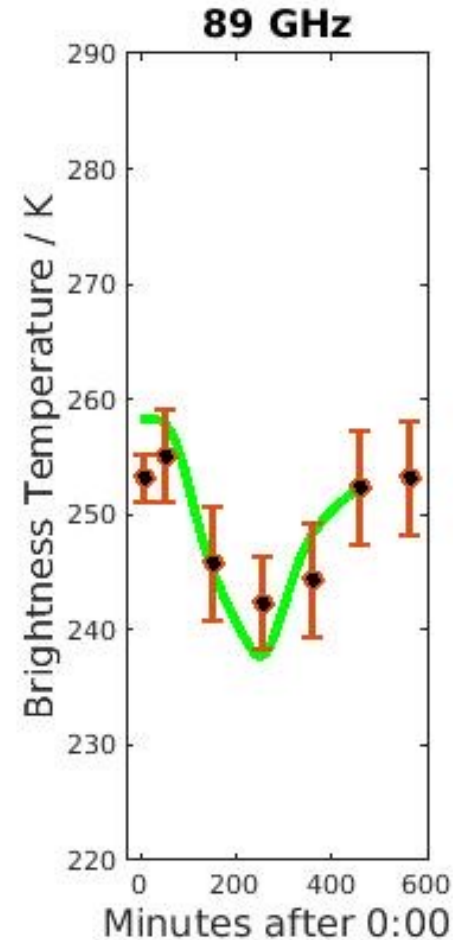
## Observing the Moon with the Advanced Microwave Sounding Unit – B on NOAA-15

- Five channels:
  - 89 GHz
  - 150 GHz
  - $183 \pm 1$  GHz
  - $183 \pm 3$  GHz
  - $183 \pm 7$  GHz
- Polar orbit has period of 100 min
- DSV close to celestial equator => sometimes  **fully included** in FOV.



## Total Lunar Eclipse on 10/28, 2004, 2:24 – 3:44 (full)

- Light curves from model (green) and seven measurements
- Temperature drop increases with frequency.
- Measurements were scaled down by 5 – 9 % to match model.



# Comparisons

