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Emission from Volcanic SO Gas on Io at High Spectral Resolution

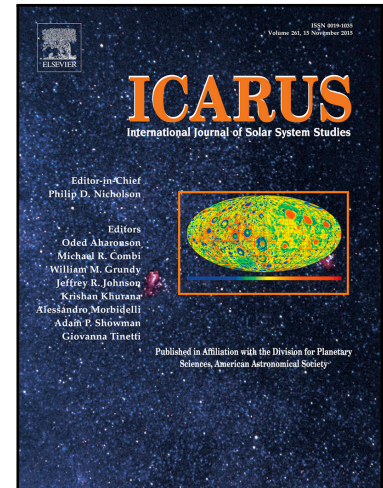
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Highlights

- High-resolution spectra of emission from hot SO gas on Io are presented.
- Models with SO gas reservoirs at both high and low temperatures are preferred.
- Spectra from different dates suggest atmospheric cooling during eclipse.
- Models indicate a change in gas density of only ~50% during eclipse.
- The SO emission appears uncorrelated with volcanic activity or Io's orbit.

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