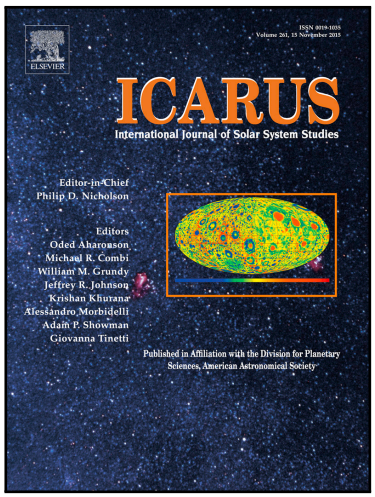

Transient Eddies in the TES/MCS Ensemble Mars Atmosphere Reanalysis System (EMARS)

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Highlights

- The Ensemble Mars Atmosphere Reanalysis System (EMARS) spans TES and MCS.
- Reanalysis transient eddies are compared with observations; robustness is assessed.
- EMARS and MACDA are more similar to each other than freely running models.
- Synoptic maps, wave regimes, seasonality, and interannual variability are explored.