

Simulation of Martian atmosphere in CCSR/NIES AGCM

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The meteorology of Mars is quite different from that of the Earth. Because most of the component of Martian atmosphere is CO₂, and dust in the atmosphere plays very important role in Martian meteorology. The dust constantly injects in the Martian atmosphere by storms of various sizes, but the mechanism of the dust storms has many unknowns.

To study them, we began to make the model of the climate of Mars based on a GCM of the atmosphere of the Earth. Compare the results of the model (distributions of temperature and wind, heat flux, and spectrum analyses) with those of observation and other model, to examine points which are the same or different, and to improve our model so as to get the results similar to those of observation.