P142-016 Room: 304 Time: May 18 10:00-10:15

Studying the Martian meteorology in the Japanese Mars mission (1)

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The strategy of Mars meteorological orbiter will be presented. The science goals are 'the interaction between the atmosphere and subsurface ice' and 'atmospheric dynamics'. Global, high-resolution, continuous mapping of water vapor, cloud, dust and atmospheric temperature will be performed from high orbit for this purpose, and submillimeter sounder will be used to map watar vapor, D/H ratio, winds and temperature in three-dimensions.