

Study of Venus Cloud movements by comparative analysis with Terrestrial Planets

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This paper examines the major Global Climate Models(GCM) of Venus presented so far and analyze them. The framework is followed by the comparative climate models of Earth, Mars and Venus. The main focus shall lie on Venus and its cloud physics. The sulfuric acid clouds are very dense and even block the study of surface of Venus. The super-rotation of the clouds on the planet is one of the most intriguing things so far. A

comparative study of chemical reactions and chemical densities are done so as to form a general layer of accumulation in the cloud which vary along the altitude. The paper shall put forth a possibility of density driven separation of cloud layers and its viscosity which helps in the super-rotation of the clouds in the terrestrial planets. It shall also consider the effects of gravity and the surface-clouds interface.