

The status of activities as of March 2017 on the study group 1.11 on Comparative Climatology:

1. Discussion was taken up at various forums by team members to bring out the review on the following topics:
  - Evolutionary theory of terrestrial planets and giant planets, General (or unified) evolutionary theory for planets including exoplanets: What is the status?
  - Timeline of Evolution of terrestrial planets, giant planets
  - Composition of the planetary atmosphere- what are the factors responsible, what is current understanding about all planetary bodies
  - Energy budget of planets
  - Solar variability and its effect on the climate of planets
2. Review on "current understanding of the temperature state of planetary bodies" is near finalization.
3. Additionally, the review on the following topics has been taken up by the team members:
  - Atmospheric boundary layer over terrestrial planet and satellites of giant planets as well as conceptual understanding of boundary layer over the giant planets (Dr. Radhika Ramchandran).
  - A review on atmosphere of terrestrial planets is nearing completion.
  - A review on the radiation transfer modelling for different planets in solar system has been initiated. The RT modelling of microwave/mm/submm emission from terrestrial planets is going on (Dr. Nizy Mathew)
  - Geology and composition of the terrestrial planets.
  - Magnetism on planets in the solar system.
  - Water in the solar system (As a subsection of the Composition of the planetary atmosphere).