

Subjects of Space Telescope for Planet Observation

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Space telescope around the earth is powerful facility to observe planets and satellite in the solar system. We can monitor the phenomena on and around the planets and satellites continuously by using the space telescope without any degradation of spatial resolution or limitation of wavelength caused by the dense atmosphere of the earth. From the point of view of plasma and atmospheric physics, following subjects are the candidates for measurement: aurora, airglow, cloud, lightning, exospheric and escaping atmosphere of planets/satellites. To realize the continuous and high contrast observation through years, the techniques of a hood rejecting sunlight and a coronagraphic optics might be most essential. Discussions on the collaborations among various scientific fields relating to the solar bodies make this project fruitful.