

Prospects of human activities in space -Solar Power Station and Space weather-

Hiroshi Matsumoto[1]

[1] RASC, Kyoto Univ.

The study of the space weather should be a comprehensive science, which covers the solar activity and its relation to the earth and space, which are the basis of the human activity. Since we have almost established a body of knowledge on the solar-terrestrial physics, we need to proceed our research considering the practical objectives, which are directly related to the human activity in space. In the preset paper, we discuss the study of the space weather in the view point of its relation to the space development. Especially, we pick up the significance of the role, which the study of space weather plays in the development and operation of huge space construction such as space station, and solar power station. We also discuss the effects of huge space construction to the space environments in addition to the introduction of the status of the space power station. Further, we also introduce the importance of the space simulator to be developed for the study of the space weather.