



Handbook of the Solar-Terrestrial Environment

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As a star in the universe, the Sun is constantly releasing energy over a wide range of time and spatial scales, making it a complex and dynamic system. The energy emitted by the Sun is primarily in the form of electromagnetic radiation, covering a wide range of wavelengths from radio waves to gamma rays. The solar-terrestrial environment is a complex system of interactions between the Sun, the Earth, and the solar wind. The energy emission from the Sun basically consists of three modes: the first mode is the so-called blackbody radiation, commonly known as sunlight; the second mode is the solar wind, a stream of charged particles flowing from the Sun; and the third mode is the solar electromagnetic emission, such as X-rays and UV radiation. In the early days, the phenomena in each plasma region were studied separately, but with the progress of research, we realized the importance of treating the whole chain of processes as an entity because of the strong interactions between various regions within the solar-terrestrial system. On the basis of extensive satellite observations and computer simulations over the past two decades, it has become possible to analyze higher-energy particles, which are referred to as the solar wind and solar cosmic rays, respectively. The close coupling of different regions in the solar-terrestrial environment.

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