Eg-P001 Room: Lounge Time: June 27 17:30-19:00

Prediction of solar wind speed at 1 AU using soft X-ray solar images

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We can monitor near real-time solar wind condition measured at L1-point now. This enables us to predict geomagnetic disturbances before approximately one hour. However, prediction of solar wind condition before several days is still under consideration. Here, we try to infer solar wind speed from soft X-ray solar images taken by the Yohkoh satellite. Solar wind speed at 1 AU is inferred from areas of soft X-ray coronal holes. The inferred solar wind speed shows good agreement with the measured solar wind speed at L1-point. Our method could be applicable to infer solar wind speed from images taken by the soft X-ray solar imager (SXI) on board the GOES satellite, which will be launched in the end of 2000.

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