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Room:Convention Hall

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Relation between activities on the solar surface and solar wind variation

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Various disturbances in geospace are generated by solar activities and solar wind variations. Optiz et al. (2009) compared solar wind velocity measured by STEREO-A and B probes, and explained the difference in velocity as not only simple time-lag, but also as effects of CME, CIR, and latitudinal gradient of velocity. In this research we add ACE measurement of solar wind parameters, will make more detailed comparison at the solar wind source region with various data on the solar surface, and discuss possible causes of the solar wind variation.

Keywords: disturbance, solar wind, solar surface, time lag, Temporal effect, Spatial effect