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On predictive abilities of magnetospheric disturbances based on STEREO-A/B solar wind measurement

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Some recent studies have correlated solar wind data from STEREO-A and ?B, and discussed possible applications for space weather forecast, including predictive ability of solar wind monitor at the L5 point. They reported, in general, a good correlation and suggested its usefulness in forecasting geomagnetic disturbances due to co-rotating structures. However, they never took into account geoeffective solar wind conditions in the correlation studies. It may not be so useful to get a high correlation for quiet intervals. In this paper, we sort solar wind data of ACE by geoeffective grade, evaluate actual ability for forecasting magnetospheric disturbances from STEREO-A and ?B solar wind measurement, and discuss prospect in future operation of space weather forecast.

Keywords: STEREO