High speed plasma flow near dayside cusp observed by high time resolution Syowa SuperDARN HF radar (3)

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High time resolution observations have been carried out using Syowa SuperDARN HF radars in order to collaborate with ground based observations at Zhongshan Station in Antarctica.

Four-to-eight time resolution data were obtained from a special beam over Zhongshan as well as optimized global scan data with a time resolution of several tens of seconds simultaneously.

High speed intermittent plasma flow has been found near dayside cusp region whose relationship with ground based observation data and solar wind parameters has been analysed.

Comparison with other similar phenomena and the interpretation will be discussed in terms of FTE, TCV and Lobe cell reconnection.

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