

## Relation between high-latitude plasmas with Akebono and plasma-sheet plasmas with Geotail during northward IMF

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The Akebono satellite has observed high-latitude plasma in the dawn/dusk region during northward IMF. Their energy is considerably lower than that of low-latitude plasma of the plasma sheet origin. They also appear quite near to the dayside cusp precipitation.

In the present study we analyzed both the Akebono and Geotail data in periods when the IMF was northward.

It was found from the Geotail observation that low-energy plasma sheet exists neighbouring high-energy plasma sheet.

Since the simultaneous plasma properties of Akebono and Geotail are quite resemble,

the source region of the low-altitude plasma with low energy is considered to be in the plasma sheet.