

Spatial association between auroral breakups and magnetotail fast flows

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Geotail plasma flow observations between 9 and 31 Re down the tail have been investigated at times when 2084 auroral breakup events were identified in the Polar ultraviolet imager observations.

As a result, more tailward flows and less earthward flows were observed between 15 and 25 Re

for lower-latitude breakups. This result indicates that reconnection tends to occur relatively near the earth for lower latitude breakups than higher latitude breakups.