

Dayside aurora and Interplanetary magnetic field

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We examined Interplanetary Magnetic Field(IMF) and thier relationships to dayside aurora phenomena obtained at South Pole, Greenland, Svalbard, Zhongshan Station. From the analysis of 16 post-noon arc/band auroral events observed at Zhongshan Station, 12 events of them is observed during negative IMF By and Bz(By,0,Bz,0) condition. It seems that IMF Bx polarity does not control so much in this event. We compared IMF polarity with other stations' aurora and also pre-noon corona aurora.