

Ionospheric Temperature Variations Observed by KOMPSAT-1 during Magnetic Storms

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We present some preliminary results obtained from the data observed by Space Physics Sensor (SPS) on KOMPSAT-1. We investigate the variations of electron temperature in the ionosphere at altitude of 685 km during magnetic storms. Daytime and nighttime conditions are analyzed in detail. During magnetically quiet phase ionospheric electrons are warm at daytime and cold at nighttime, both almost independent of latitude. However, during magnetic storms or magnetically active phase electron temperature significantly increases at high and subauroral latitudes both at daytime and nighttime.