

Atmospheric electric field and 38.2MHz fluctuations during geomagnetic storm at Brazilian geomagnetic anomaly region

Makita Kazuo Brazilian Geomagnetic Anomaly Research Group[1]

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A large fluctuation of atmospheric electric field was observed at Southern Space Observatory(SSO) in Brazilian geomagnetic anomaly region during the recovery phase of magnetic storm occurred on November 7 to 10. This large fluctuation was continued for 27hours from November 8, 21h to November 9,24h. 38.2MHz radio wave was also received from November 8, 8h to 24h. From lightning Imaging Sensor(LIS),thunder storm were detected around SSO from 10h to 18h on November 9. We are examining whether the electric field fluctuation event is caused by only meteorological condition or other reason due to the geomagnetic anomaly region.