Airgrow phenomena between Brazilian geomagnetic anomaly region and Okinawa.

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On the basis of wide angle CCD camera data, we compared airglow phenomena obtained at Brazilian geomagnetic anomaly region (26.7S,306E) and Okinawa,Japan(26.7N,128E). From CCD camera data at INPE southern space observatory(SSO) in Brazil, band structure airglow phenomena are frequently observed and its occurrence frequency is about 80%. These band strucure phenomena are observed under the condition during both quiet and disturbed geomagnetic period.

On the other hand, occurrence frequency of band structure phenomena at Okinawa is less than 50% and they are observed during disturbed geomagnetic condition.

These band strucure phenomena must be relataed with atmospheric gravity wave.

However, since many high energetic particles are precipitaing in Brazilian geomagnetic anomaly region, we examined the relationships between these phenomena and particle precipitaion.