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Room:101

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Cosmic noise absorption at Kakioka and Brazil by using imaging riometer during quiet period

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During geomagnetic very quiet period(1 day Sum Kp < 4), cosmic noise absorption(CNA) are sometimes observed at Brazilian geomagnetic anomaly region. We compared such CNA events with imaging riometer (IRIS) data at Kakioka, Japan. It was found that similar CNA events are observed at both places with time lag about +,-12hrs. CNA shows stripe structure similar to Traveling Ionosphere disturbance (TID). We also examined low altitude NOAA particle data. But there is no clear particle precipitation in this time.

These CNA are observed around 9h or 21h local time. If the CNA source region are stably exist during more than 10hours in both hemispheres, similar CNA at two points will be observed. However, we do not know what kind of such stable source is. We will check again IRIS data/analysis method and also examine possible stable source.

Keywords: cosmic noise absorption, imaging riometer, geomagnetic anomaly