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Long-term trend of global geomagnetic Sq field

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Long-term variation, including seasonal and local time variations, of the atmospheric potential gradient (PG) at Kakioka (KAK) and Memambetsu (MMB) in Japan was investigated for the period 1958-2008. PG was observed in all seasons to have decreased steadily at KAK since 1980, but the decrease was accelerated after 1997. This pattern suggests that the height profile of the conductivity above KAK was modified, especially after 1997. The decrease in PG was also observed at MMB after 1997. More details together with seasonal and local time variations will be shown in the presentation.

Keywords: atmospheric electricity, potential gradient, long term trend, seasonal dependence, local time variation