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Long-term variation of auroral activity at Syowa-Iceland conjugate stations (1)

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Long-term variation of auroral activity at Syowa Station (SYO) (S69.00 deg) in Antarctica and Leirvogur (LRV) (N64.18 deg) in Iceland is investigated. Both SYO and LRV are located at auroral latitudes and in an unique geomagnetically conjugate relationship with each other. Geomagnetic variation data from 1958 and 1966 at LRV and SYO, respectively, are used for this analysis. Using those almost four solar cycle data, similarity and dissimilarity in the solar cycle variation, seasonal variation, and daily variation of geomagnetic activity at those conjugate stations are investigated to understand interhemispheric difference in auroral activity responding to the variation of the solar wind input and solar activity.

Keywords: aurora, magnetic activity, solar activity, long-term variation