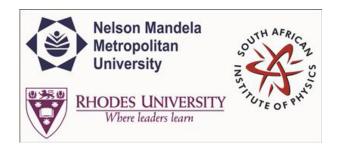
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Investigation of Pc5 pulsation events using Sanae radar and ground-based magnetometer data during northward interplanetary magnetic field (IMF) interval

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Abstract content
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The Pc5 pulsation events presented here were monitored in the high-latitude ionosphere by Sanae radar and ground-based magnetometer arrays in Greenland and CARISMA stations that are in the same range of magnetic latitude, when the interplanetary magnetic field of the solar wind is northward. These two instrument types complement each other. The line-of-sight Doppler velocities from the radar can be used to measure ULF oscillations in the F-region plasma flow associated with Pc5 field line resonance. Ultra low frequency (ULF) pulsations have been observed for many years in magnetometer data and are endemic within the magnetosphere. Spectral analysis of the Pc5 pulsations from Sanae radar and magnetometers has been performed. This will help in determining the characteristic features of pulsations during northward interplanetary magnetic field interval.

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