

ULF Pulsation Amplitudes Observed at Indian Antarctic station in Maitri during an Intense Magnetic Storm.

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The storm time magnetic field analyzed for its respective Fourier components are shown to have intense pulsations at Pc6 wave modes than any other. This storm occurred on 29th Oct 2003 and it is known to be one of the intense storms in the last solar cycle. The analysis was supplemented with the solar wind parameters obtained by the ACE satellite. IMAGE satellite data on auroral intensity during this time are shown to have considerable changes in its intensity. The analysis in particular has revealed the relative intensities of Pc waves for all of its frequency ranges which include Pc6 viz, the Substorm pulsations. The comparison of amplitudes for these pulsations found at higher latitude with the low latitude stations reveal that the pulsations are predominantly a high latitude phenomenon. The disturbance time scales at much longer time scales are rather found to relate to the changes in electric field in the ionosphere during such period.