



## **Charged Particles in Earth's Magnetosphere during Storm and Quiet time**

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Ionic number density, taken by the Magnetospheric Ion Composition Spectrometer (MICS) instrument on the Combined Release and Radiation Effects Satellite (CRRES), are used to investigate the behaviour of singly charged Oxygen and Helium ions, and also Alpha Particles, while under both quiet and storm-time conditions during a Solar Maximum Period. Number density data are plotted against Invariant Latitude and Local time. The results of this investigation show clearly an enhancement of all species during periods of highly negative DST, and are in agreement with previous work (Grande et al, 1996, 2004).