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Satellite and ground based observations of a large-scale electron precipitation event – preliminary results

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In this study we compare DEMETER electron spectra with AARDDVARK measurements of relativistic electron precipitation (REP) during the 21 January 2005 storm period. Augmenting large-scale regional observations from an array of ground-based VLF measurements with detailed in situ measurements from the satellite allows us to determine the spatial extent of the precipitation in addition to its energy distribution, providing a more complete picture of the impact that this precipitation has on the upper atmosphere.