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A Case Study of Energetic Electron Precipitation Using Ground-Based VLF Radio Data

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We report first results on energetic electron precipitation using the recently deployed ABOVE array. ABOVE is a ground-based array of Very Low Frequency (VLF) radio receivers located across western Canada. With the new instruments, we characterize the properties of electron precipitation during a geomagnetic storm using changes to the phase and amplitude of VLF radio waves from ground based transmitters. We combine ABOVE data with global data from AARDDVARK to investigate electron precipitation on multiple scales.

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