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Initial Results from the AUTUMNX Magnetometer Array

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Most AUTUMNX sites were installed in late 2014, forming a meridian chain along the eastern shore of Hudson Bay. In early 2015, a second, more widely spaced, chain became operational at the longitude of Iqaluit/Kuujuauq. These chains provide good coverage in longitude and latitude in eastern Canada, using highly accurate and reliable THEMIS class magnetometers from UCLA. Many substorms have been observed, along with activity characterized as convection bays or steady magnetospheric convection, which may dominate. Isolated impulsive events observed at many stations appear to be related to detectable signals in nearby power grid systems. The meridian chain is conjugate to GOES East and to Antarctica, and some events have been observed to have conjugate signatures. The AUTUMNX array was funded by the GO Canada initiative of the Canadian Space Agency.

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