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## Thermospheric winds and temperatures

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The Scanning Doppler Imager is a state-of-the-art Fabry-Perot interferometer system that allows remote ground-based “images” of thermospheric winds and temperatures using the Doppler shift and broadening of airglow emissions. Thermospheric winds at high-latitudes are generally driven by ion drag from ion convection as observed by the SuperDARN radars. The unique meso-scale imaging capability of this instrument has contributed to new discoveries, for example that auroras can directly influence the thermospheric wind velocity in time and space. Two Scanning Doppler Imagers were deployed to McMurdo and South Pole, Antarctica, in early 2016. The deployment and some preliminary observations are presented.

**Apply to be considered for a student &nbsp; award (Yes / No)?**

No

**Level for award&nbsp;(Hons, MSc,   PhD, N/A)?**

N/A

**Would you like to submit a short paper for the Conference Proceedings (Yes / No)?**

No

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