

Meteor Radar and Airglow Observations at Middle and High Latitudes

Iain M REID^{1,2}, Joel P YOUNGER^{1,2}, Andrew J SPARGO², Damian J MURPHY³ and
Andrew R KLEKOCIUK^{2,3}

¹ *ATRAD Pty Ltd, Adelaide, Australia*

² *Adelaide University, Adelaide, Australia*

³ *Australian Antarctic Division, Kingston, Australia*

The combination of airglow emission intensity and rotational temperature observations and meteor radar observations of pressure and density levels leads to additional insights into the dynamics of the upper middle atmosphere. In this paper we will describe such observations made at Adelaide at lower middle latitudes, and at Davis Station, at a high latitude, both in the Southern Hemisphere.

Key words: meteor radar, airglow rotational temperatures, airglow emission intensities, neutral air density