



## **The tropospheric response to Antarctic stratospheric ozone depletion**

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Stratospheric ozone depletion has caused a dramatic cooling of the Antarctic winter vortex over recent decades, particularly in the spring. At the same time, a trend towards the positive phase of the Southern Annular Mode has been observed in the troposphere, associated with a cooling of the Antarctic interior, and a strengthening of the westerlies over the Southern Ocean. I will review evidence for the relative roles of radiative and dynamical processes in inducing these trends, and discuss modelling results illustrating the roles of each.