



Mid-latitude influences on the Tropical Upper Troposphere during ACTIVE

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The meteorology of the Darwin region and the nearby Tiwi Islands is of particular interest due to the influence of frequent deep-convective storms on stratospheric-tropospheric exchange. Such meteorology and convective transport have been the subject of intense recent study during the ACTIVE (aerosol and chemical transport in tropical convection) campaign, combining low and high-altitude aircraft measurements over the Darwin and Tiwi Island regions and includes a series of ozonesondes recorded throughout the campaign. In this paper, we discuss the results from ozonesondes launched during ACTIVE in the period between November 2005 and February 2006, with particular emphasis on possible mid-latitude influences on the tropical upper troposphere. These measurements are interpreted using meteorological fields and in-situ observations from aircraft missions over the Tiwi Islands to the North of Darwin.