



## **Large-scale teleconnections that affect the south-Pacific subtropical anticyclone: mechanisms and potential implications**

Thomas Toniazzo

University of Reading, Meteorology, Reading, United Kingdom (t.toniazzo@reading.ac.uk)

Together with export to the mid-latitudes, surface fluxes in the descending branches of the Hadley-Walker circulation act to regulate the water and energy cycles in the tropics. Here we illustrate a mechanism by which mid-latitude synoptic variability can affect the surface fluxes in the subtropical anticyclone of the south Pacific. Considering the influences of tropical-extratropical teleconnections on the southern storm track, we discuss the potential implications for the tropical climate variability on subseasonal to interannual time-scales.