

ABRUPT AIR TEMPERATURE RISE ALONG THE COAST OF THE ROSS SEA DURING THE AUSTRAL WINTER

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A network of Automatic Weather Stations is operated by the Italian National Antarctic Research Programme (PNRA) on the western coast of the Ross Sea, Antarctica. During the Austral winter, several cases of abrupt temperature rise are observed, showing temperature differences as large as 30°C over 24 hrs.

A climatological analysis and some case studies are presented, taking into account both local and regional scale meteorological conditions.

This study made an extensive use of the meteorological on-line database published in <http://www.climantartide.it>