

The Southern Hemisphere Meteorological Observing System

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Meteorological observations are vitally important for observing the Southern Hemisphere, especially for its sparsely populated regions and oceanic areas. Remote sensing and automatic in situ observations of the Southern Hemisphere have benefitted numerical modeling systems with significant gains in performance. Most observations, especially from passive microwave satellite sensors, are assimilated with moderate success. The combined remote, automatic-observing systems provide the only record of observations in an otherwise data sparse portion of the globe. This poster display reviews the various observing systems that provide coverage in the Southern Hemisphere including satellite platform, ground based in situ, aircraft and upper air (e.g. rawinsonde). Special attention in this display is given to Antarctica, with a discussion of regional data center holdings.