



Overview of the Antarctic Automatic Weather Station Network

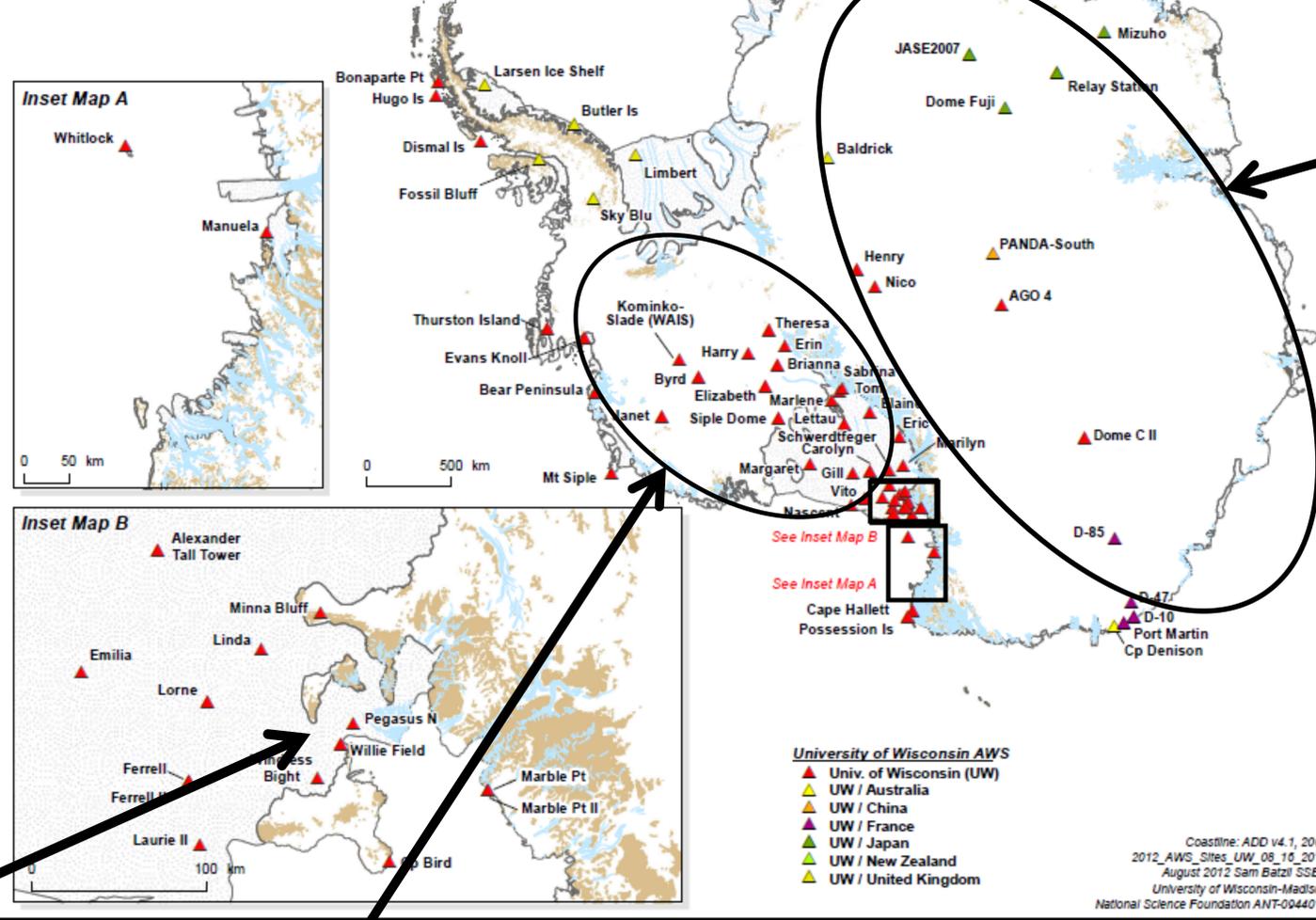
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Abstract: The Antarctic Automatic Weather station has been run by the University of Wisconsin since 1980. For more than thirty years, a large number of research projects have been supported by the data gathered. Currently ozone studies, regional warming studies, and investigation into accuracy of observations in polar regions are primary areas of exploration. All data collected by these stations are made available via FTP and RAMMADA online.

Automatic Weather Stations University of Wisconsin 2012



East Antarctica: Throughout the polar plateau region, we collaborate with several other countries, providing them with weather systems that they have installed. Our interests in the region include improving understanding of biases in measurements caused by radiation shields as well as understanding of climate patterns in remote regions.



South Pole Test Station



Lettau

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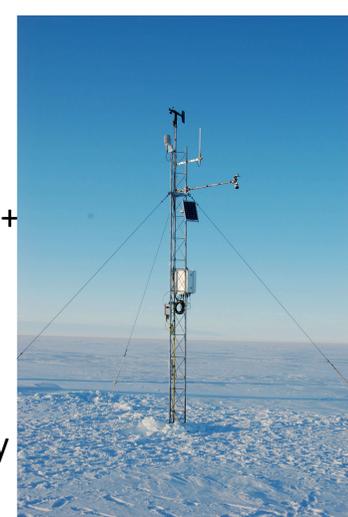
Alexander Tall Tower



Marble Point II

McMurdo Area: This region is seeing a number of improvements. Recent installation and expansion of a Freewave network routes realtime data through McMurdo station. Ozone monitoring stations are also connected to the Freewave network, providing observations necessary for improving understanding of Tropospheric Ozone Interactions. Alexander Tall Tower is a 100 foot tower providing measurements at various levels throughout the boundary layer and lower Troposphere.

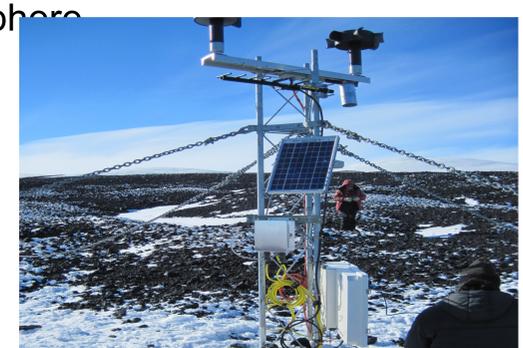
West Antarctica: Ross Ice shelf and West Antarctica are the regions where we have the most measurements, and contain stations that have the longest records of 30+ years. West Antarctica is of increasing importance as recent studies indicate there is increased warming throughout that area and the Antarctic Peninsula. We also collaborate with the British Antarctic Survey throughout the Peninsula region.



Ferrell II



Byrd



Minna Bluff