

PAGES CLIVASH-2K

Climate Variability of the Southern Hemisphere

Objective : improve our understanding of large scale modes of climate variability in SH

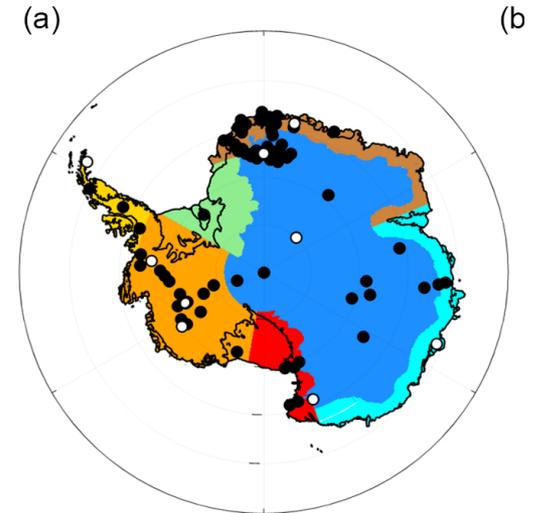
- To enhance our understanding of Antarctic, sub-Antarctic and Southern Hemisphere climate variability over the past 2000 years.
- Evaluate the key drivers of Southern Hemisphere climate variability on regional to hemispheric scales.
- Work towards a community based multi-proxy reconstruction of key modes of variability over the past 2000 years and how they relate to climate in Antarctica, the sub-Antarctic and the wider Southern Hemisphere.

Results from Antarctica 2K

2 papers:

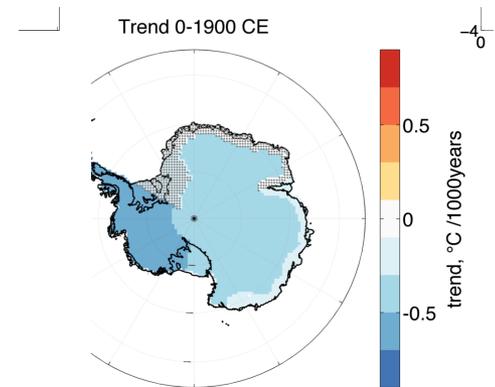
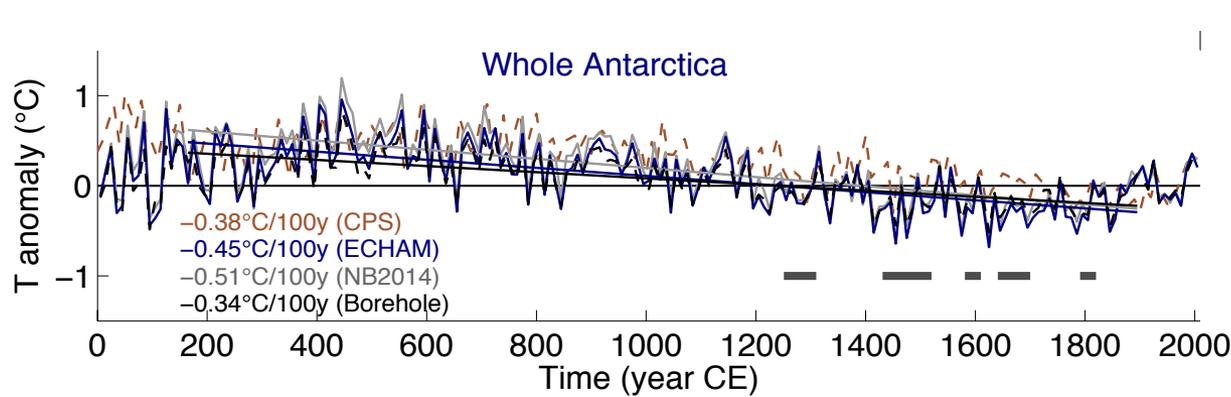
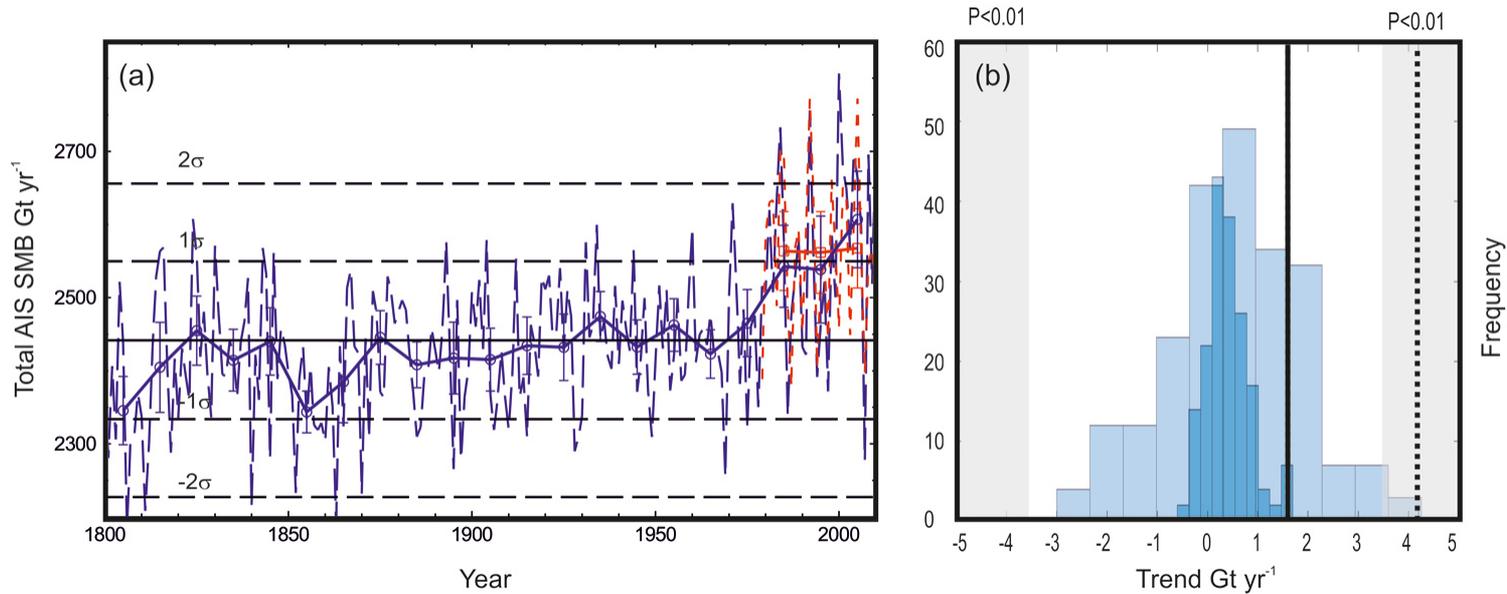
Thomas, E. R., van Wessem, J. M., Roberts, J., Isaksson, E., Schlosser, E., Fudge, T. J., Vallelonga, P., Medley, B., Lenaerts, J., Bertler, N., van den Broeke, M. R., Dixon, D. A., Frezzotti, M., Stenni, B., Curran, M., and Ekaykin, A. A.: **Regional Antarctic snow accumulation over the past 1000 years**, *Clim. Past*, 13, 1491-1513, <https://doi.org/10.5194/cp-13-1491-2017>, 2017.

Stenni, B., Curran, M. A. J., Abram, N. J., Orsi, A., Goursaud, S., Masson-Delmotte, V., Neukom, R., Goose, H., Divine, D., van Ommen, T., Steig, E. J., Dixon, D. A., Thomas, E. R., Bertler, N. A. N., Isaksson, E., Ekaykin, A., Werner, M., and Frezzotti, M.: **Antarctic climate variability on regional and continental scales over the last 2000 years**, *Clim. Past*, 13, 1609-1634, <https://doi.org/10.5194/cp-13-1609-2017>, 2017.



79 accumulation records
112 d18O records

Results from Antarctica 2K



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Climate reconstructions :

- Blend low and high resolution
- Include sub antarctica
- Go towards reconstructing climate modes rather than individual variables

Team :

Leader : [Elizabeth Thomas, British Antarctic Survey, UK](#)

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Team members

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Next meeting : at Polar 2018 (Davos) on June 18th 2017