



**The 1st Australasian 2k (Aus2K) PAGES Regional Workshop: Towards
Data Synthesis
31st May - 2 June 2010
School of Earth Sciences, University of Melbourne, Australia**

Day 1: Oral and Poster Sessions

09:30-10:30 am Overview and Context

09:30-09:50: An introduction to the [PAGES Regional 2k Network](http://www.pages-igbp.org/science/last2millennia.html)¹ (Newman *et al.*)

09:50-10:10: Introduction to [Aus2k](http://www.pages-igbp.org/science/2k/aus2k/index.html)² (Turney)

10:10-10:30: Observed variability in Australasian climate and links to palaeoclimatology (Karoly)

10:30-11:00 Coffee Break and Posters (Details of posters given on page 5)

11:00-13:00 Single proxies

11:00-11:30: High-resolution Antarctic ice core records and Australian climate (van Ommen *et al.*)

11:30-12:00: Tree-ring records from Australia (Baker)

12:00-12:30: Tree-ring records from New Zealand (Palmer)

12:30-13:00: Rainfall in south-west Western Australia over the past millennium from tree rings and a long-term historical north China rainfall proxy (Grierson *et al.*)

13:00-14:00 Lunch and Posters

14:00-16:00 Single proxies

14:00-14:30: The last 2,000 years in tropical Australasia: Towards a comprehensive climate analysis based on speleothems and corals (Gagan)

14:30-15:00: Contribution of coral records to understanding Australian climates of the past (Lough)

15:00-15:30: The El Niño-Southern Oscillation (ENSO) from 0-2 ka (McGregor *et al.*)

15:30-16:00: Speleothem palaeo-rainfall archives in southeast and southwest Australia (Treble *et al.*)

16:00-16:30 Coffee Break and Posters

¹ <http://www.pages-igbp.org/science/last2millennia.html>

² <http://www.pages-igbp.org/science/2k/aus2k/index.html>

16:30-18:00 Single proxies

16:30-17:00: Fine resolution palaeoclimatic records from sedimentary basins
(Kershaw *et al.*)

17:00-17:30: Evidence for a pre-European drought in the western Victorian lakes: A historical context for the recent Victorian drought (Mills *et al.*)

17:30-18:00: Records of past fire events in eastern Australia and Papua New Guinea over the past 2000 years (Haberle *et al.*)

18:00-19:00 Discussion session on single proxies (with refreshments)

19:00 Dinner

Day 2 Orals, Posters and Discussions

09:00-10:30 Multiproxy Reconstructions

09:00-09:30: Reconstructing ENSO from multi-proxy palaeo data (Braganza and Gergis) 09:30-10:00: An ensemble approach to multi proxy rainfall reconstruction (Gergis *et al.*)

10:00-10:30: A multiproxy climate regime reconstruction for New Zealand (Lorrey *et al.*)

10:30-11:00 Coffee Break and Posters

11:00-13:00 Modelling

11:00-11:30: Coral-based, multi-proxy, multicentury, ensemble climate field reconstructions of Pacific basin sea surface temperatures (Evans and Kaplan)

11:30-12:00: The role of ocean gateways in controlling regional and global climate (England *et al.*)

12:00-12:30: Reconstructing climate modes from Australian speleothems: A multi-proxy and multi-regional perspective (Fischer and Treble)

12:30-13:00: Modelling of the last 2 ka (Phipps)

3:00-14:00 Lunch and Posters

14:00-15:00 Modelling

14:00-14:30: Why should we study climates of the past? (Steffen)

14:30-15:00: PMIP and the AR5: an overview of simulations and data-model comparisons (Harrison and Bartlein)

15:00-15:30 Coffee Break and Posters

15:30-17:00 Panel Discussion

Designed to stimulate discussions between modellers, palaeo and modern communities. Identification of how modellers, paleo-researchers, dynamicists and data-modellers can best help each other. Discussion over data-sharing and collaboration: how can the Australasian scientific community move forward? What are the barriers to making more effective reconstructions? Strategic research planning. Identification of regional sub-groups and leaders.

17:00-18:00 Refreshments

18:00-19:00 Sub-Regional Discussions and Presentations

Rotation between regions and identification of key datasets (identified on Day 1) and problems/ barriers. Groups based around 4 regional sub-groups: Tasman/SE Aus, SW Aus, N. Aus/Indo, and SW Pacific. Nomination of lead authors of the Aus2k book chapter will be identified and start working up data with input from modelers in preparation for following day.

Day 3 Break Out Groups and Reporting

Return to aim: Developing annual to decadal climate reconstructions for Australasia for the past 2000 years (henceforth 2K) and report these results to the wider scientific community through the PAGES regional 2K synthesis book.

09:00-10:30 Regional Sub-Group Break Out

[Metadata entry for Aus2K](#)³

10:30-11:00 Coffee Break

11:00-12:30 Consolidation

Consolidating data from sub-regional discussions for a fuller regional reconstruction

12:30-13:30 Lunch

13:30-16:00 Allocate Tasks for PAGES Regional 2K Synthesis Book

What needs to be achieved by the next PAGES regional 2K network meeting on 28 July 2011 in Switzerland? Who is responsible for contributing content to the PAGES 2k synthesis book deadline of 2012?

16:00 End of Meeting

³ <http://www.pages-igbp.org/cgi-bin/WebObjects/metadb.woa/wa/group?group=aus2k>

Poster Summaries

Ackerley *et al.*: The Kidson Weather Types: A method for comparing climate model and paleoproxy data in New Zealand.

Allen *et al.*: An overview of some recent Tasmanian dendroclimatological work.

Evans and Gava: Plans for isotope dendroclimatology in Queensland.

Gell *et al.*: The effect of the 'Big Dry' on Tower Hill: Condition and context.

Griffiths *et al.*: Sub-annual trace element variability in a speleothem from Flores, Indonesia: A record of soil processes.

Pearson and Gayler: Looking elsewhere to avoid confirmation bias.

Rancic: Rainfall shifts: Dry and wet phases alternate every 5 decades.

Skrzypek: Stable carbon isotope composition of Sphagnum peat as a new paleotemperature proxy?

Tolwinski *et al.*: VS-Lite: Mechanistic modeling of tree-ring width data.