Abstract Details

<u>AOGS 1st Annual Meeting</u> > <u>Ocean and Atmospheres</u> > Linkages between the Austral sumr monsoon, the anti-cyclonic belt and the westerlies in the last 50 ka; a New Zealand perspec

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 - **Title:** Linkages between the Austral summer monsoon, the anti-cyclonic be the westerlies in the last 50 ka; a New Zealand perspective

Abstract:

This paper summarises the state of our understanding of some extra tropical climate linkages in the New Zealand sector of the southern m latitudes over the last 50,000 years. During early Oxygen Isotope Sta (OIS) 3 the summer Monsoon was probably established over both Au: and northern New Zealand. South Island, New Zealand sites, howeve no evidence, of an OIS 3 pluvial or inter-stadial. By about 45 ka the monsoon had either turned off or at least retreated equatorward and not become re-established until near the start of the Holocene. During southern Australia became extremely arid and apparently much colde contrast, New Zealand remained relatively moist and mild. This decou temperate New Zealand and Australia contrasts with the apparently synchronous responses earlier (and later) in the glacial cycle. Very lov level was the primary difference between OIS 2 and the previous stac a conceptual model for the climate decoupling based on changes in atmospheric long-wave circulation are proposed. In the New Zealand the deglaciation appears to have been relatively monotonic but with a possible climatic stabilization during the Antarctic Cold Reversal. Evid will be presented that this may be associated with the temporary swit on of a modern style ENSO circulation. The end of the deglaciation an Holocene was a period of minimum seasonality in New Zealand. Seas and ENSO forcing are increasing through the late Holocene.

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