

Interactive
Comment

Interactive comment on “Interhemispheric coupling and warm Antarctic interglacials” by P. B. Holden et al.

P. B. Holden et al.

p.b.holden@open.ac.uk

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We are grateful for the reviewer's comments and will be pleased to incorporate all of the suggested improvements. The referee's principal concern relates to ocean circulation consequences of freshwater release into the high latitude Southern Ocean in the event of potential WAIS retreat. We will provide a detailed discussion of this point, drawing on the suggested references. We feel that the very substantial uncertainties in the onset, duration, profile and degree of WAIS retreat prevent further useful modelling on this issue in the absence of a coupled ice-sheet model (indeed the referee does not indicate that additional modelling is necessary). However, the detailed studies which have already been performed will allow us to address this point in some detail. We are presently looking at the potential for coupling to an ice-sheet model in order to provide

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improved quantification of any WAIS retreat, which would enable us to further address this important issue.

CPD

Interactive comment on Clim. Past Discuss., 5, 2555, 2009.

5, C1271–C1272, 2010

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