



Interactive comment on “Paleoclimatic reconstructions in Western Canada from subsurface temperatures: consideration of groundwater flow” by J. Majorowicz et al.

J. Majorowicz et al.

Received and published: 11 October 2005

We agree with the referee that some reorganization of the paper is needed and we appreciate his detailed comments. We will follow his comments. We have already prepared additional figures, Fig. 6d, 8c which illustrate the forcing model described in fig. 6 captions. This model consists of POM (pre-observational mean) before 1790 A.D., the box-car low event and the 1910–2004 SAT (surface annual temperature) series from Calmar, Alberta station. The model explains the observed transients from temperature-depth logs. The box-car low between 1790 A.D. and 1910 A.D. we have based on the approximation of the Luckman et al (1997) time series based on their tree ring studies. The best coincidence with observed T-z transients we obtain using the model with $POM=1.1C$ and the 'boxcar low' value $0.6C$.

Interactive comment on Climate of the Past Discussions, 1, 93, 2005.

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Discussion Paper