

Interactive  
Comment

## ***Interactive comment on “Differences between the glacial cycles of Antarctic temperature and greenhouse gases” by A. W. Omta***

**A. W. Omta**

omta@mit.edu

Received and published: 21 May 2012

I would like to thank Referee 2 for the comments. However, I do feel that a brief clarification is warranted.

The focus of the article is differences between the glacial cycles of Antarctic temperature and CO<sub>2</sub>. The Referee raises a key question at the bottom of the second page of comments (C346): “Given the similarity claims by the author between temperature, CO<sub>2</sub> and CH<sub>4</sub>, why is CO<sub>2</sub> not a function of obliquity also?” The answer is that it isn’t: even though the 100-kyr cycles are dominant in each of the signals, the Fourier spectra of Antarctic temperature and CH<sub>4</sub> also have a rather strong contribution at the 41-kyr obliquity frequency which is almost entirely absent in the spectrum of CO<sub>2</sub>. Although this difference between the respective Fourier spectra was noticed by Petit et al. (1999),

Full Screen / Esc

Printer-friendly Version

Interactive Discussion

Discussion Paper



