

Interactive comment on “Volcanic synchronisation of the EPICA-DC and TALDICE ice cores for the last 42 kyr BP” by M. Severi et al.

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Authors' response to reviewer2 in bold.

As the title states, this paper provide volcanic synchronisation between the EPICA-DC and the TALDICE ice cores for the last 42 kyr BP. This is one of necessary steps to synchronize several deep Antarctic ice cores and Greenland ice cores to make a consistent dating for multiple ice cores. The method seems rigorous to me. Thus I found no major point to criticise or correct in the paper. Introduction is nicely written to show background. I provide only several comments for the authors to consider. Lines 26-29 in Page 3721 It seems better if more detail of age markers are mentioned. For example, time markers of the orbital tuning.

A few details about age markers were added in this part of the text.

Page 3723, section 2 A map showing geographical locations would be useful for readers.

A map showing the drilling sites was added to the paper (Figure 1)

Page 3723, section 2 Information of accumulation rate and annual mean air temperature (or 10-m deep snow temperature) are useful information for readers. I suggest that they are added.

These information about the drilling site have been added in the site description paragraph.

Page 3728, line 18 "20

The sentence was changed as suggested by the reviewer.

Page 3728, last three lines of the section 5 I believe that the volcanic synchronization is a rigorous method; it seems to me that you should not easily introduce a possibility of errors in the volcanic synchronisation process.

OK. This sentence was changed.

We hope to have fully answered the questions raised by the referee and we thank him/her for his/her useful comments that improved the scientific quality of the paper.

Interactive comment on Clim. Past Discuss., 7, 3719, 2011.

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