

Interactive comment on “Direct North-South synchronization of abrupt climate change recording in ice cores using beryllium 10” by G. M. Raisbeck et al.

F. Parrenin (Editor)

parrenin@ujf-grenoble.fr

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The comments from the two reviewers are generally positive and suggest that it will be possible to prepare a paper that is acceptable for CP. I would ask the authors to consider and answer all the points made by the reviewers, and to be especially careful:

(a) to explain how the match was done, and to discuss possible other matching scenarios. This is especially important since this paper will be part of this "dating" special issue. So please don't hesitate to give more technical details.

(b) to comment on the flux vs concentration issue, and on how confident you are that the individual centennial scale Be-10 excursions in an individual ice core always repre-

sent a global scale event.

(c) to make more reference to the EPICA community members (2006) paper.

(d) to recall how your work was used for the construction of the EDC3/EDML1 time scale.

I also have several minor editorial comments:

P756, L5: "41 kyr" is redundant. You may replace by "this time period"

P756, L9: add "observed" after "events"

intro: you mention GRIP and GISP2, but you do not speak explicitly about NGRIP.

intro: speak about EPICA community members (2006)

P758: last two paragraphs are somewhat redundant with what has been said before in the intro. You may want to be a bit more direct here.

P759, L5: "than _what_ we have used"?

P759, L19: missing space "200 Be events"

P760, L7: extra dot before "(Raisbeck et al"

perspectives: the style may be improved here, there are redundancies.

FIG1: use "AIM" instead of "ATM"

FIG1: the 10Be flux EDC should be in $\text{atoms m}^{-2} \text{ s}^{-1}$ (m^{-2} , not m^2)

Interactive comment on Clim. Past Discuss., 3, 755, 2007.