

Interactive comment on “A 60 000 year Greenland stratigraphic ice core chronology” by K. K. Andersen et al.

V. Masson-Delmotte (Editor)

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This paper represents an extension of the Greenland counted chronology back to 60 000 years, a major effort to improve absolute age scales of paleoclimatic reconstructions.

The four reviewers raise some points that require improvements of the text to clarify the calculation of uncertainties, and to better justify the comparison with records of other latitudes, together with minor revisions. Some aspects were previously described in earlier papers but still deserve to be mentioned here for coherent readability of this manuscript. These points are already addressed in the authors' comments to the reviewers.

Interactive
Comment

While it is frustrating not to go into the full depth of the consequences of the counted layer age scale in terms of accumulation - isotope models and shape of rapid events, I understand the wish of the authors to develop a specific paper on this important topic; it would be very valuable as well to explore the consequences of the new age scale on paleotemperature reconstructions extracted from the firn fractionation method (15N, 40Ar). For the present manuscript, I therefore suggest to shortly mention this aspect of the results as suggested by Reviewer 3.

A revised manuscript including these improvements together with the minor corrections suggested by the reviewers will be fully suitable for publication in *Climate of the Past*.

Sincerely,

Valérie Masson-Delmotte.

Interactive comment on *Clim. Past Discuss.*, 3, 1235, 2007.

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