



Corrigendum

Corrigendum to “Consistent dating for Antarctic and Greenland ice cores” [Quaternary Science Reviews 29 (2010) 8–20]

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When this paper was originally published the legend for Fig. 1 was incorrect and the artwork for Figs. 2 and 3 had been transposed. The correct artwork and captions are provided on the following pages for Figs 1–3.

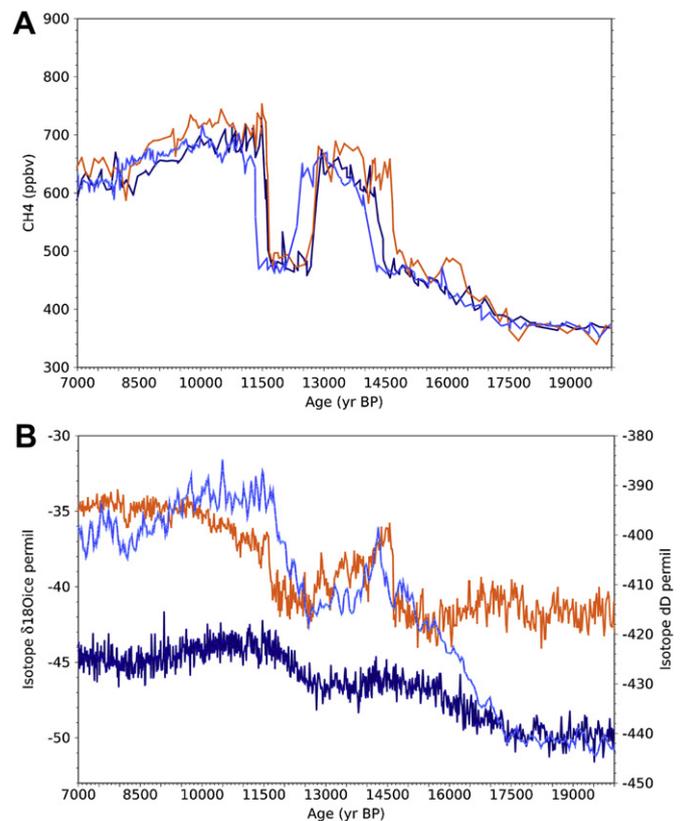


Fig. 1. Current dating problems related to ice cores of Antarctic (EDC and EDML respectively in light and dark blue) and Greenland (orange), for the last deglaciation transitions: (A) Mismatch between the CH₄ records with the sp4 gas age scenario for EDC and EDML, and the GICC05 gas age (Blunier et al., 2007) for the Greenland stack record. (B) Unexpected timing during the Bolling–Allerod transition between ice isotopic records with the EDC3, EDML1 and GICC05 ice age scales, with a 400 yr lag between the maximum value reached by the EDC δD record before the Antarctic Cold Reversal, and the fast Bolling–Allerod transition recorded in the NGRIP δ¹⁸O ice record, respectively for the EDC, EDML and NGRIP ice isotopes.

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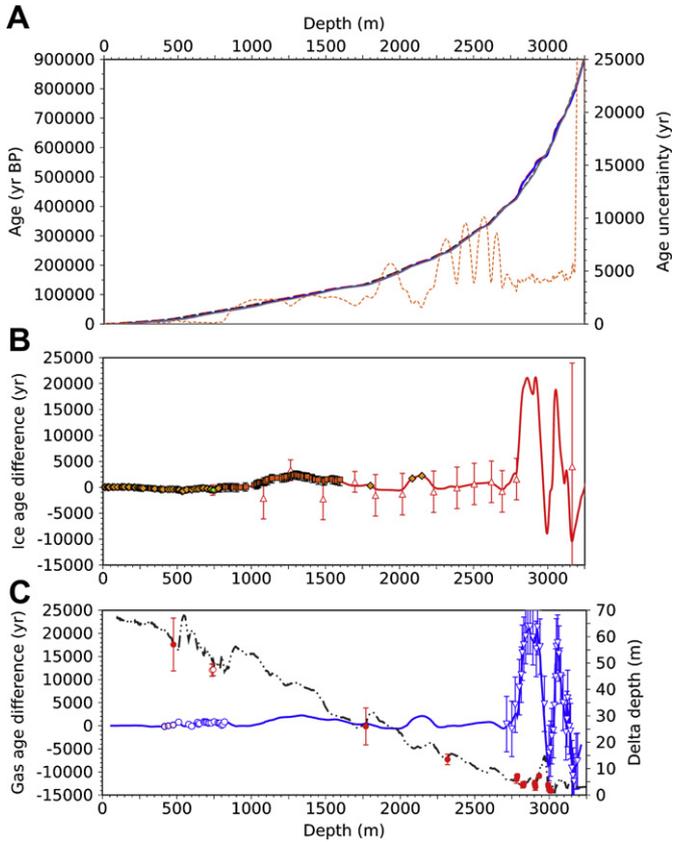


Fig. 2. EDC overall new dating scenario for ice and gas: (A) New and background ice and gas chronologies and uncertainty on the ice age estimate (orange dashed line, right Y-axis). Ice chronologies are dashed lines while gas chronologies are solid lines; background chronologies are in dark grey while new ice and gas chronologies are red and blue lines, respectively. (B) Difference between new and background ice age scales (i.e., new minus background, red line); red triangles are ice age markers; orange squares, orange and green diamonds are EDC–EDML, EDC–Vostok and EDC–NGRIP ice stratigraphic links, respectively; error bars correspond to 2s uncertainties. (C) Difference between new and background gas age scales (blue line); new delta-depth reconstruction (black dashed line, right Y-axis); blue triangles are gas age markers; blue and purple circles are respectively EDC–EDML and EDC–Vostok gas stratigraphic links; red circles are delta-depth data inferred by Louergue et al. (2007), which are not used to constrain the new dating scenarios but are plotted for comparison; error bars are 2s uncertainties.

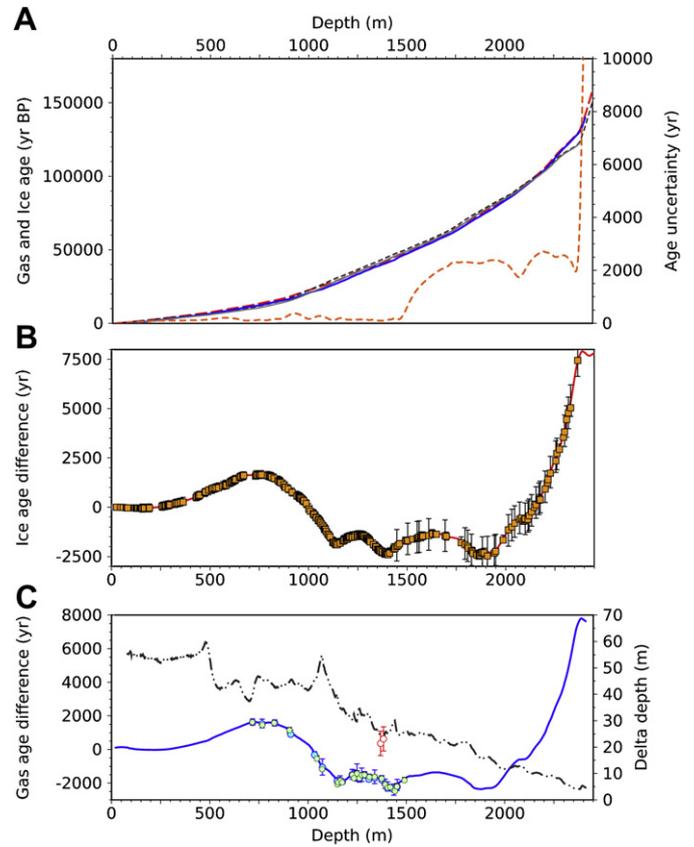


Fig. 3. EDML overall new dating scenario for ice and gas: (A) New and background ice and gas chronologies and uncertainty on the ice age estimate; see Fig. 2 for plot symbols. (B) Difference between new and background ice age scales (i.e., new minus background, red line); orange squares are EDML–EDC ice stratigraphic links; error bars correspond to 2s uncertainties. (C) Difference between new and background gas age scales (blue line); new delta-depth reconstruction (black dashed line, right Y-axis); blue and green circles are EDML–EDC and EDML–NGRIP gas stratigraphic links, respectively; red filled circles are delta-depth data; red empty circles are delta-depth inferred by Louergue et al. (2007) but unused in the application; error bars are 2s uncertainties.