

## ***Interactive comment on “Towards orbital dating of the EPICA Dome C ice core using $\delta O_2/N_2$ ” by A. Landais et al.***

**A. Landais et al.**

amaelle.landais@lsce.ipsl.fr

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We have received and read carefully the three reviewers comments and the editor general remarks. We have thus prepared a new version of the manuscript that addresses the different comments. In particular, we have followed the general suggestion of the editor to simplify the discussion and the interpretation by removing entirely sections 5-2 (requested by reviewer 3) and 5-3 (requested by reviewers 2 and 3). Section 4-3 on the choice of the orbital target has been removed as well (in particular the discussion with the 2 insolation curves as suggested by reviewer 3). However, we have kept a short annex with the two first paragraphs of this section and the figure showing surface temperature records at Dome C over the last seasonal cycles. Indeed, we feel that it is still important to make the reader aware that matching  $\delta O_2/N_2$  curve on 21st

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December local insolation is perhaps not valid for the Dome C ice core because the temperature signal at the surface at Dome C does not reach its maximum value the 21st of December but better in January.

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