Clim. Past Discuss.,
https://doi.org/10.5194/cp-2018-171-RC2, 2019

Climate of the Past Discussions
Open Access
EGU

Interactive comment on "Spiky Fluctuations and Scaling in High-Resolution EPICA Ice Core Dust Fluxes" *by* Shaun Lovejoy and Fabrice Lambert

Anonymous Referee #2

Received and published: 20 May 2019

By using non-standard approaches, the authors analyze in this paper the 320.000 cm-long EPICA Dome C dust flux record published in Lambert et al., 2012. Glacial-interglacial cycles that are present in the EPICA record are subdivided into 8 phases showing systematic variations of their statistical properties. The interpretation of the variability of four key indicators (H, C1, qD, A) provides some interesting paleoclimatic information. I have only some concern about the interpretation of A and H exponent and their link to the size of the Patagonian ice sheet, that are reported in the attached file together with other minor comments.

I cannot judge on the statistical techniques adopted for characterizing the cycles – that I leave to expert reviewers in the field.

If the statistical part is duly revised by an expert in the field, this paper is worth to be

Printer-friendly version

Discussion paper

published in CP after some minor revisions.

Please also note the supplement to this comment:
https://www.clim-past-discuss.net/cp-2018-171/cp-2018-171-RC2-supplement.pdf

Interactive comment on Clim. Past Discuss., https://doi.org/10.5194/cp-2018-171, 2019.