

Interactive comment on “Interpreting last glacial to Holocene dust changes at Talos Dome (East Antarctica): implications for atmospheric variations from regional to hemispheric scales” by S. Albani et al.

H. Fischer (Editor)

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Dear authors

Your paper has now been seen by two referees, which both favor publication of the manuscript in CP after revisions. In your replies to the reviews you already commented on the major points by the referees and how you could accommodate the criticism in a revised version of the manuscript.

Accordingly, I would like to invite you at this point to work on a revised version of the

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manuscript and to provide a complete point-to-point reply to the reviews. The latter will largely determine whether the revised version has to be sent to the referees again.

Please note that both reviews made the point more or less that in the manuscript hypotheses are often stated as fact, without further corroboration. This is mainly a matter of wording. Please provide either evidence or clearly flag hypotheses as such where you make them.

Concerning comment p151,l10 by reviewer 2: It would clearly be helpful to mention the volcanic influence on the particulate dust composition at that point and to refer to those unpublished data.

Another point from my editorial point of view relates to the apparent correlation of dust at TALDICE and EDC in the late Holocene. I agree that on short time scales this correlation breaks down. However, the same holds probably true for the correlation between dust and d18O in TALDICE, where you hint at a connection between the two on page 152. The correlation in the late Holocene only comes about because both records show a long-term (linear) trend in the smoothed records. Accordingly, it seems to me that this also does not support a significant process connecting dust and d18O for the late Holocene. Again this is a matter of wording.

Looking forward to the revisions

All the best Hubertus Fischer

Interactive comment on Clim. Past Discuss., 8, 145, 2012.