

Interactive comment on “Sources and transport of dust to East Antarctica: new insights from high-resolution terrestrial and marine aerosol records from the Talos Dome ice core” by S. Schüpbach et al.

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Received and published: 2 August 2013

A short comment about how the authors reconcile their model with the evidence that during cold glacial periods contribution from local dust sources to Talos Dome was not completely shut off probably (see Albani et al, 2012, figure 3d where coarse dust particle flux – indicative for local dust advection- was equal or even slightly higher during LGM than during early Holocene). Consequently it would be nice if the authors properly highlight that only in relative terms the dust input from local sources increased during warm climate stages, not in absolute terms as one can read in their introduction.

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Another short comment on the possible contribution from Dry Valleys to TD. The cited work of Delmonte et alii, 2013, they point to Prince Albert Mountains/Deep Freeze Range/ Mesa Range being likely the most important “potential dust–carrying” air flow patterns to TALDICE therefore please provide alternative reference for the attribution of DV as dust sources to Talos Dome, but not Delmonte 2013. Other minor comments concern the fact that the old idea that “local sources increased after glacial periods” is related only to the formation of glacial deposits – but we do not know the former productivity of all other typologies of loose deposits acting as sources in Victoria Land that have been active since a period of time that is much longer than the TALDICE ice core record.

Interactive comment on Clim. Past Discuss., 9, 3321, 2013.

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9, C1630–C1631, 2013

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