

Interactive comment on “Past African dust inputs in Western Mediterranean area controlled by the complex interaction between ITCZ, NAO and TSI” by P. Sabatier et al.

P. Sabatier et al.

pierre.sabatier@univ-savoie.fr

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We acknowledge the anonymous referee#1 for this kind review. We revised it in detail as described below.

Page 2 Line 5. What do you mean with Mt? Please explain the abbreviation, when you use it the first time. Metric Tonne

Page 2 Line 16. please delete “In” Thank

Page 3 Line 3. What do you mean with PSA? Please explain the abbreviation, when you use it the first time. Potential Source Area

C1

Page 3 line 15. Do you mean rubbles or screes? What is the genesis of the screes? Fluvial transport? Screes from glacial or rock fall origins

Page 5 line 22 dust proxy instead of Dust proxy Thanks

Page 6 line 17. Does the mean grain size (D50) correspond with remote aeolian dust? This should be discussed in the discussion chapter. You might discuss grain size end-members as well. Grain size in this lake sediment is mostly affected by biogenic silica (see below) thus this data could not be used to track thin particle from Aeolian origin. We just use here grain size to illustrate that there is not coarse deposit link to flood or terrigenous events

Page 8 line 8. An enhanced I/K ratio... Thanks

Page 9 lines 13-18. This paragraph does not correspond to the subject of this chapter. You might delete this sentence. Thank, we move this paragraph to the part “4.2.2.” about Centennial variation

Page 10 line 1. You may cite the new Lake Sidi Ali dust record here (2017, QSR) that show reduced dust supply into the Western Mediterranean during the AHP. The reference is already in your reference list. We add this reference

Page 10 line 2. You mean increase in summer orbital insolation? Thank, Yes increase for the HAP

Interactive comment on Clim. Past Discuss., <https://doi.org/10.5194/cp-2019-111>, 2019.

C2

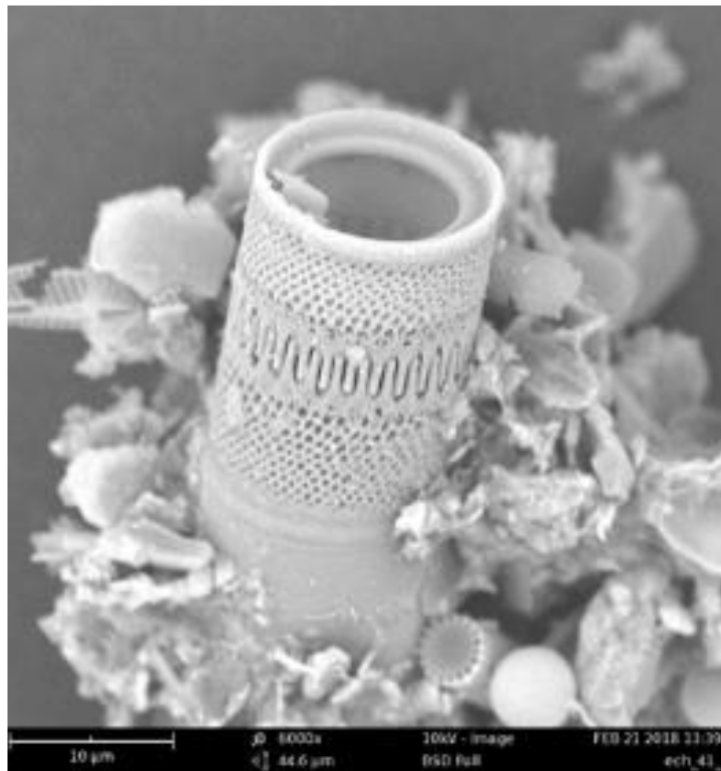


Fig. 1.

C3