

## ***Interactive comment on “Abrupt climate variability of eastern Anatolia vegetation during the last glacial” by N. Pickarski et al.***

**L. SADORI (Referee)**

[laura.sadori@uniroma1.it](mailto:laura.sadori@uniroma1.it)

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This manuscript is quite interesting and provides a high-resolution pollen study with new elements for the knowledge of the paleoclimate of the Near East during last glacial. In my view this is a valuable contribution to the understanding of how a far away region could respond to North-Atlantic changes. I encourage the authors to take into consideration the following general comments and the specific points included in the attached file.

### General considerations

Considering the chronology of the record (already established and published in other articles) I wonder about the perfect correspondence existing between PAZ and MIS.

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Many papers demonstrated that vegetation phases are not always synchronous with marine isotope stratigraphy. I guess this is due to the criteria used to establish the chronology of the core, that mostly consisted in synchronization of marine lowering/increasing of temperature and terrestrial reduction/expansion of AP. The authors should admit they could not be always in phase. They just discussed it for the (obvious and expected in my opinion) lack of correspondence between the timing of some Dansgaard–Oeschger (DO) events and pollen expansions. We are still far away by obtaining correct chronologies and we have always to admit that lacking of perfect matching could either be due to problems in dating or to time-lag between terrestrial response to ocean changes.

Please also note the supplement to this comment:

<http://www.clim-past-discuss.net/11/C1450/2015/cpd-11-C1450-2015-supplement.pdf>

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