

Interactive comment on “Impacts of climate and humans on the vegetation in NW Turkey: palynological insights from Lake Iznik since the Last Glacial” by A. Miebach et al.

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GENERAL COMMENTS

Overview: The paper “Impacts of climate and humans on the vegetation in NW Turkey: palynological insights from Lake Iznik since the Last Glacial” by Miebach and colleagues is supported by new and consistent data from a region poorly investigated from a palynological point of view. The lacustrine record spans more than 30,000

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years. Moreover, the region, in the eastern Mediterranean, has peculiar environmental and climatic features. The Lake Iznik record fills a gap existing not only in Turkey, but also in the whole Mediterranean. Pollen analysis is accurate and precise, and follows other palaeoenvironmental investigations and chronological assessment on the lacustrine record. The possibility to ascribe some slight mesophilous arboreal expansions to precise Dansgaard-Oeschger events leave me doubtful, given the uncertainty of chronologies in Mediterranean environments. I think that only minor changes will be necessary before the final publication.

Paper organization: A short part of introduction should fit better in results (see my comments in the attached file). Even if the chronology of the record was established in other articles, I would like to see radiocarbon dates and tephra positions also in the pollen diagram (with selected taxa) of the article and not only in the supplementary material with the complete pollen diagram. It should be also indicated which dates are obtained from macrofossils (as in Roeser et al. 2012) as the paper is really accurate. The occurrence of AP tephra is quite important as, as far as I know, this is the easternmost pollen record in which is found. It will allow direct comparison with Italian and Albanian records. I appreciate the fact that pollen zones description is summarized in a table and that results and discussion are in the same paragraph. The archaeological sites mentioned in figure 7 should be located on a map. The bibliography is updated, even if few other articles could have been used (see some suggestions in the attached file).

SPECIFIC COMMENTS: See the attached file

Please also note the supplement to this comment:
<http://www.clim-past-discuss.net/11/C2630/2015/cpd-11-C2630-2015-supplement.pdf>