

Interactive comment on “Orbital changes, variation in solar activity and increased anthropogenic activities: controls on the Holocene flood frequency in the Lake Ledro area, Northern Italy” by B. Vannière et al.

N. Combourieu Nebout (Editor)

nathalie.nebout@lsce.ipsl.fr

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Dear Boris,

We have now received the comments of the two referees. Both reviews underline the high interest of your results that merits to be published in Climate of the past..

However, even if reviewers are rather positive about your paper, they both recommend major revisions before publication in CP and provide detailed comments with lot of interesting suggestions about your manuscript which have to be precisely considered.

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More particularly the two referees yield largely comment your interpretation about the floods annual periodicity with ask some questions about which you have to respond accurately. They both recommend having a look at the present-day dynamic of floods to reinforce your interpretation. If you have some information about that in the studied area through sediment traps... it will be very interesting to detail that here, it will be very informative for the paper discussion. In addition, they ask you to refine the sedimentological description of the core. Really, this last is definitively not enough detailed although that could be probably very helpful you in your paper. Referee 2 also suggests using more the geophysical and geochemical data as you mentioned in your text that it also make possible to distinguish events in that way. In fact, follow these remarks will surely reinforce your demonstration especially with regards to the annually lamination that may be related to floods. Referee 2 provides very interesting remarks on your interpretation about the Mid-Holocene events and the LIA that have to be carefully considered. Referee 1 discusses your interpretation about the late Holocene flood event. You have to respond to that. Some new references are recommended by the referees to amend your interpretations and discussion.

Both reviewers also suggest few improvements to clarify several paragraphs and sentences. They recommend that the paper must be corrected by and English native people to improve the form. Pay attention to the reference list that displays some errors.

Please, take carefully into account the referees's comments and suggestions and then revise the manuscript accordingly. This will improve your paper before submitting your revised manuscript to CP.

With best regards

Nathalie Nebout

Interactive comment on Clim. Past Discuss., 8, 4701, 2012.