

***Interactive comment on “Multidisciplinary distinction of mass-movement and flood-induced deposits in lacustrine environments: implications for Holocene palaeohydrology and natural hazards (Lake Ledro, Southern Alps, Italy)” by A. Simonneau et al.***

**N. Combourieu Nebout (Editor)**

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Dear Anaelle,

We have now received the comments of three referees. Both reviews underline the interest of your results.

However, major revisions are needed before a possible publication in CP and all three

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reviewers provide detailed comments with lot of interesting suggestions about your manuscript which have to be precisely considered before resubmit a revised version to Climate of the Past.

More particularly two referees (1 and 2) yield large comments about the lack of a precise sedimentological description of the core in the manuscript and particularly with regards to what separates the classic sedimentation features of Holocene from the SE events deposits. Readers need such information to be able to understand your text. They also ask you to present more the age model to reinforce the description of data. Take into account all the questions addressed by referee 2, your precise responses to these exciting questions will surely improve the reliability of your data and interpretations. One referee asks you to care about your descriptions and to choose definitively between description in depth or in age and not to jump from one to other. This jump makes the text a bit confusing and changing that will really help the reader.

Both reviewers also suggest few improvements to clarify several paragraphs and sentences. The manuscript has to be reorganized to be more clear and concise that is needed to simplify and shorten the text. You really have to follow the changes proposed by reviewers that in my opinion are necessary. Figures have also to be amended following the reviewer's suggestions for example about the clarification of event labelling.

Please, take very carefully into account the referees's comments and suggestions and then revise in detail your text accordingly. This will improve your manuscript before submitting a revised manuscript to Climate of the Past.

With by best regards

Nathalie Nebout

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