

## ***Interactive comment on “Eutrophication and Phosphorous accumulation in sediments of Karlskärsviken, bay in Lake Mälaren” by G. Olli***

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Received and published: 28 August 2007

Two very detailed reviews were received on this paper. The opinions of the two referees are generally in agreement. Both the reviewers think that the paper is interesting, meets the focus of HESS and has a specific relevance within the context of the Water Framework Directive of the European Union.

However, the referees also pointed out that the presentation of the analysis and the results can be improved and that some methodological details should be better explained.

I share with the referees the opinion that the paper is potentially interesting for readers of HESS. However, basing on the response of the reviewers and my personal assess-

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ment of the paper, I think that a major revision is needed in order to further consider this contribution. When revising the paper, it is important that all the referees' comments are addressed in the revised manuscript or carefully discussed in the rebuttal document.

Among the issues raised by the reviewers, I think it is particularly important to restructure the presentation of the methodology and the results, according to the suggestions of the referees. Particular attention should be paid to the key issue raised by referee 3, that refer to page 1834, lines 13-14. Moreover, I think an analysis of the reliability of the results is required, as recommended by both referees (see, for instance, the concern of referee 3 that refers to page 1832, line 18).

I understand that the above requested major revision will require a substantial work by the author, in particular because the study suffers (as many others in this field) from uncertain data. However, as I see the general importance and the original contribution conveyed by this study, I would like to encourage the author to improve the paper.

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 4, 1823, 2007.

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