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Climate of the Past Discussions

Interactive comment on "Sedimentary archives of climate and sea-level changes during the Holocene in the Rhone prodelta (NW Mediterranean Sea)" *by* Anne-Sophie Fanget et al.

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This is an excellent paper all around that shows the potential of distal delta deposits for paleoenvironmental reconstructions. Here are some weaker points that need to be addressed:

1. the paper needs a better justification for radiocarbin data rejection.

2. inversions in radiocarbon ages are indicative of reworking, which is a well known fact of life in these environments regardless of the facies discussed in the paper. Note that I am not talking about reworking of very old microfosssils that show on their morphology or color that they are old and reworked; I am talking of specimens that could be 1000-

2000 years older and look like new. But 1000 years is a long time in the Holocene. In these conditions the paper needs a discussion on reworking and transport of microfossils used in this study. Do they matter and how much? Can reworked shallow species mimic a hydrological event? This request might seem hard but it is important if prodeltaic records are to be used for paleohydrology. And the authors have the right data to make a good case that reworking is secondary.

I am looking forward to read the revised discussion inclduing these points.

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