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Climate of the Past
Discussions

Interactive comment on "Does δ^{18}O of O_2 record meridional shifts in tropical rainfall?" *by* Alan M. Seltzer et al.

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We thank the reviewer for his or her positive feedback and constructive advice. Based on these comments, we plan to improve the clarity of our introduction, abstract and discussion sections by using simpler terminology and being more specific where needed. In particular, we realize that the comparison of local maxima in CH_4 and $\Delta\epsilon_{LAND}$ could be confusing as presently worded. We thank the reviewer for bringing this to our attention. In its present form, the abstract states that "maxima in $\Delta\epsilon_{LAND}$ are synchronous with or shortly follow WD CH_4 peaks assumed to mark abrupt climate responses to Heinrich events." In our revised paper, we will clarify in the abstract and main text that these "WD CH_4 peaks" refer to small amplitude (tens of ppb) local maxima in CH_4 within Heinrich Stadials 1,2, 4 and 5. They do not refer to the much larger amplitude (100s of

ppb) millennial-scale local maxima associated with Dansgaard-Oeschger events.

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