

Interactive comment on “Surface circulation patterns and the pathways of sea surface carbon dioxide (CO₂) off northern Chile (~27.5° S) between 30 and 10 kyr BP: global and/or local forcing?” by J. A. Placencia et al.

H. Fischer (Editor)

hubertus.fischer@climate.unibe.ch

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Thank you for submitting your interesting work to Climate of the Past.

Your paper "Surface circulation patterns and the pathways of sea surface carbon dioxide (CO₂) off northern Chile (27.5°S) between 30 and 10 kyr BP: global and/or local forcing?" has now been seen by two review experts.

As outlined in the reviews, both referees bring forward strong arguments that question the interpretation of the proxies in terms of PCO₂ and δ¹³C(DIC). In fact, with the

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strong accompanying changes in upwelling, nutrient supply etc. at your study site, a straightforward interpretation appears to be difficult and many of the far reaching conclusions in the paper may not stand on the solid ground they deserve.

Based on this assessment, it appears to be unlikely that textual revisions of your paper are able to resolve these issues. Accordingly, I would recommend to reassess your results and rewrite the paper completely based on the review comments (see also some suggestions of additional analyses and tests in review #2) and afterwards make again an INITIAL submission to CPD or another journal of your choice.

Interactive comment on Clim. Past Discuss., 6, 347, 2010.