

Clim. Past Discuss., referee comment RC1  
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## **Comment on cp-2022-33**

Bradley Opdyke (Referee)

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Referee comment on "Leeuwin Current dynamics over the last 60 kyr – relation to Australian ecosystem and Southern Ocean change" by Dirk Nürnberg et al., Clim. Past Discuss., <https://doi.org/10.5194/cp-2022-33-RC1>, 2022

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I think this is an excellent paper. The data are detailed and terrific. It is primarily a paleoceanography/paleoclimatology paper, but seems to get starry eyed over the megafaunal dung data. These data, while fun, are not really the focus of the paper, nor should they be. Given the megafauna were probably slaughtered by the early human arrivals, attributing any cause and effect to these paleoceanographic data is drawing a long bow indeed. The dung data need to be de-emphasized and the focus of the abstract and the conclusions should be on the primary paleoceanographic data, which is a high quality data set and should be given top billing!