

RESEARCH ARTICLE | ANTHROPOLOGY | FREE ACCESS



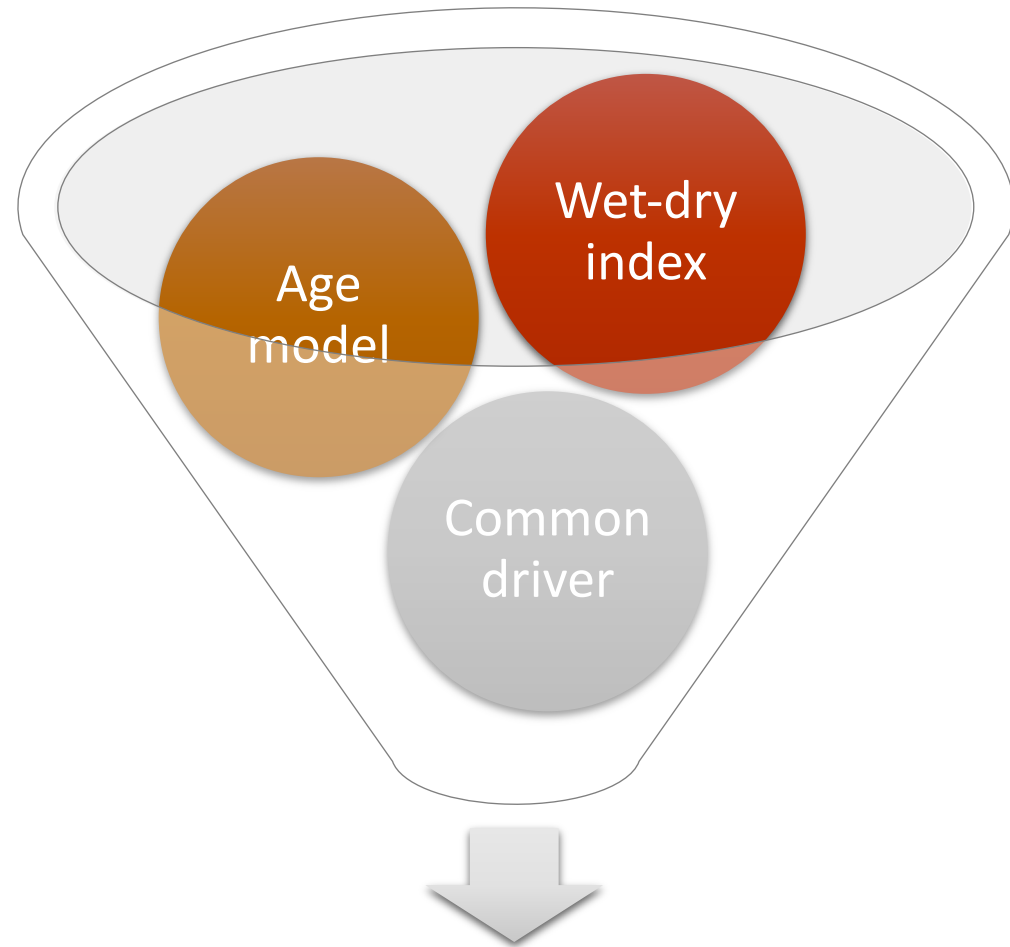
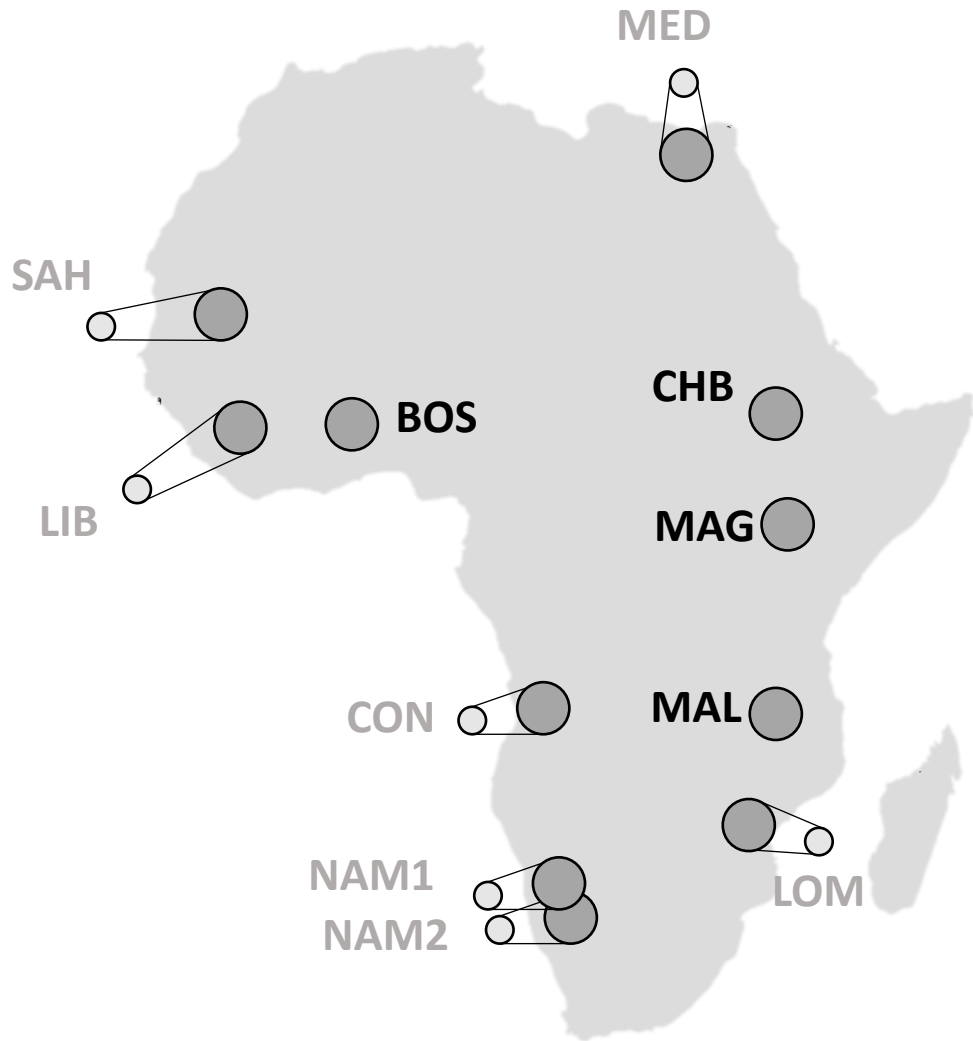
Paleo-ENSO influence on African environments and early modern humans

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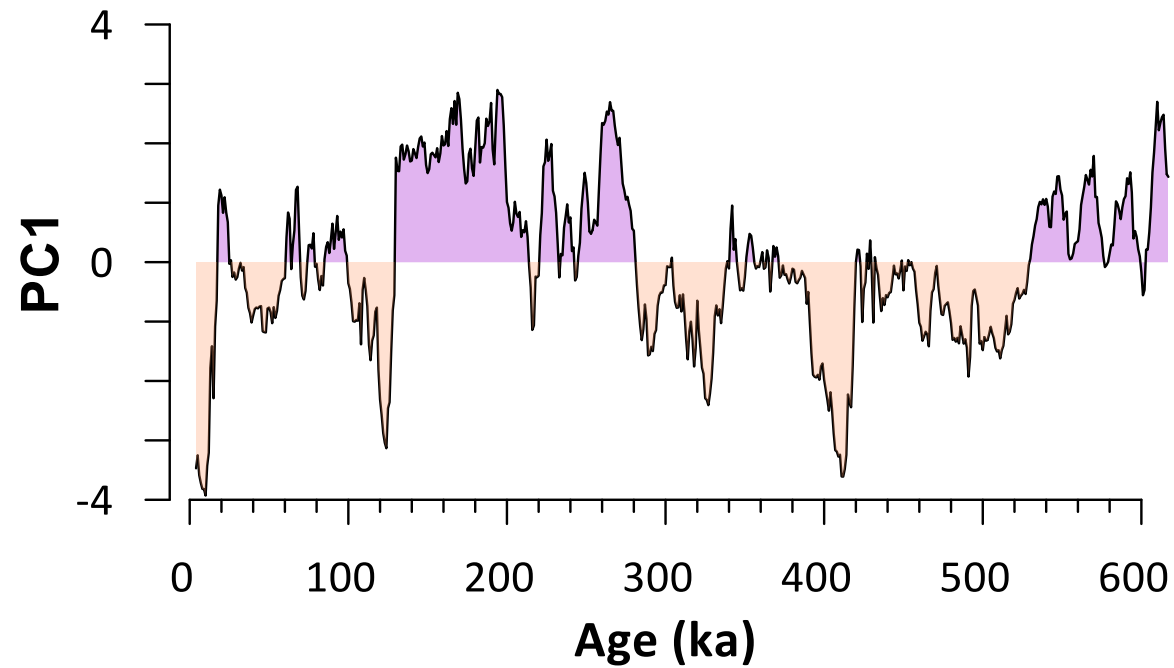
Together with: William D. Gosling, Ralf Vogelsang, André Bahr, Eleanor M. L. Scerri, Asfawossen Asrat, Andrew S. Cohen, Walter Düsing, Verena Foerster, Henry F. Lamb, Mark A. Maslin, Helen M. Roberts, Frank Schäbitz, and Martin H. Trauth

Towards paleo-African climate framework

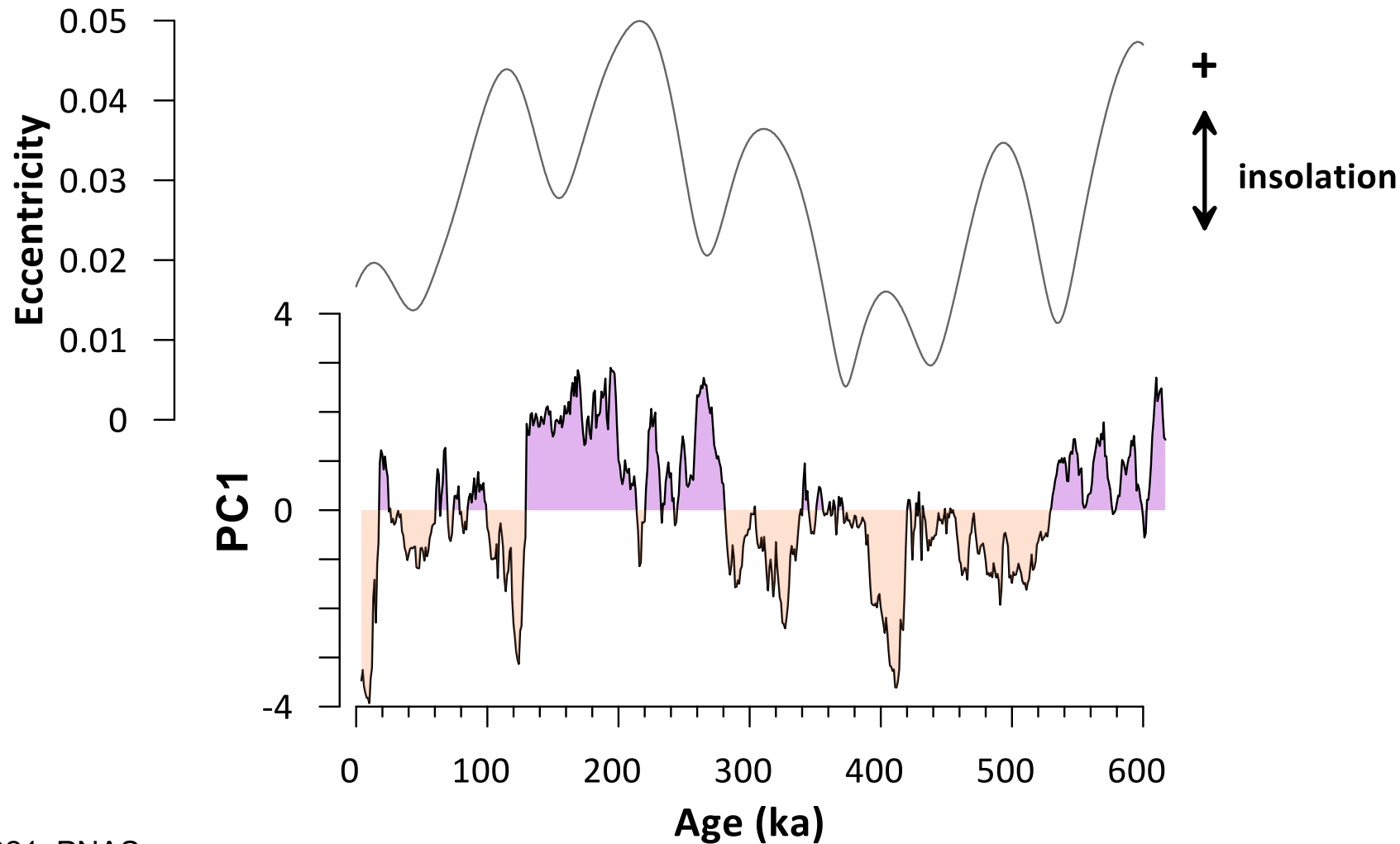


Multivariate Statistics

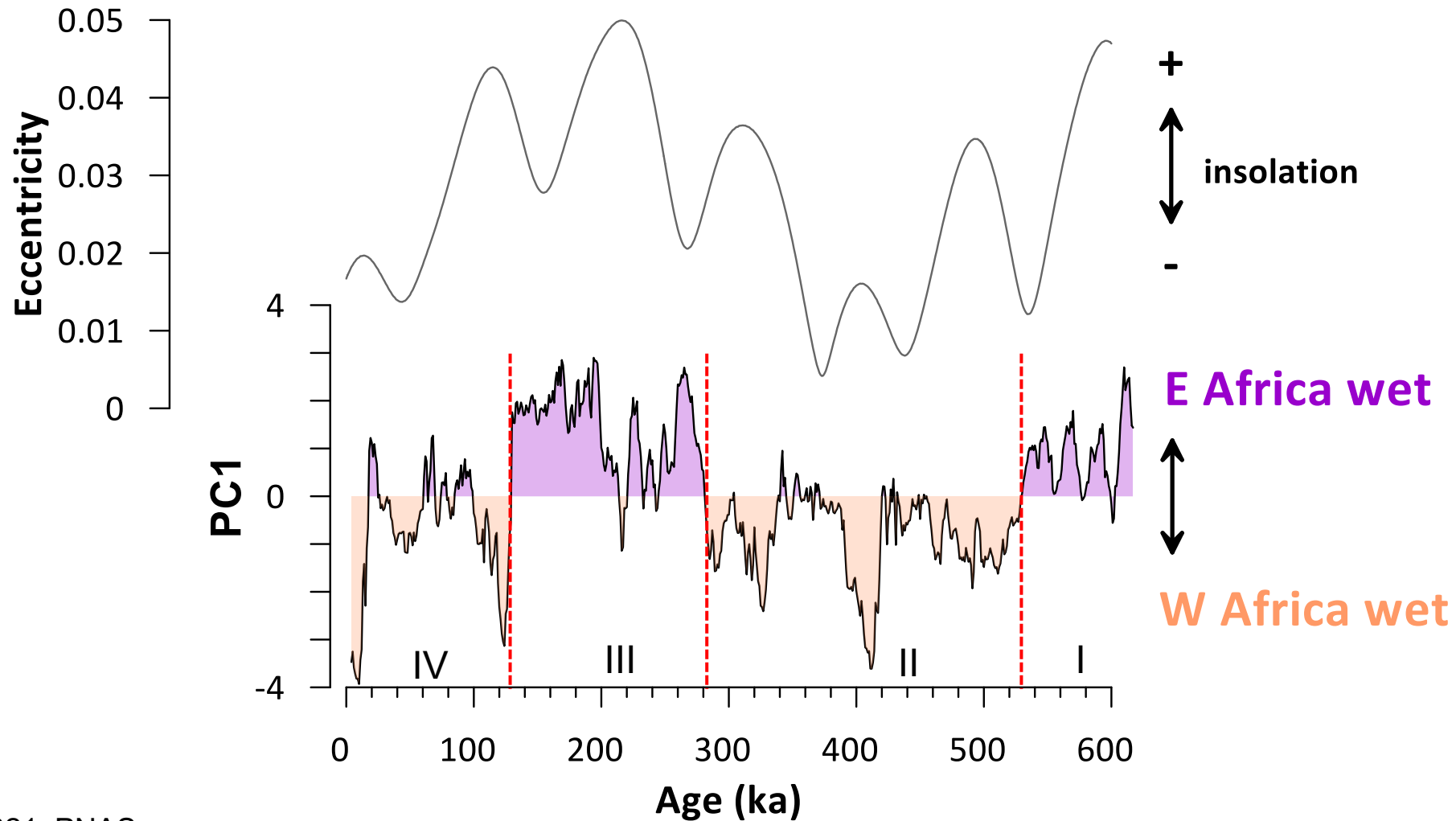
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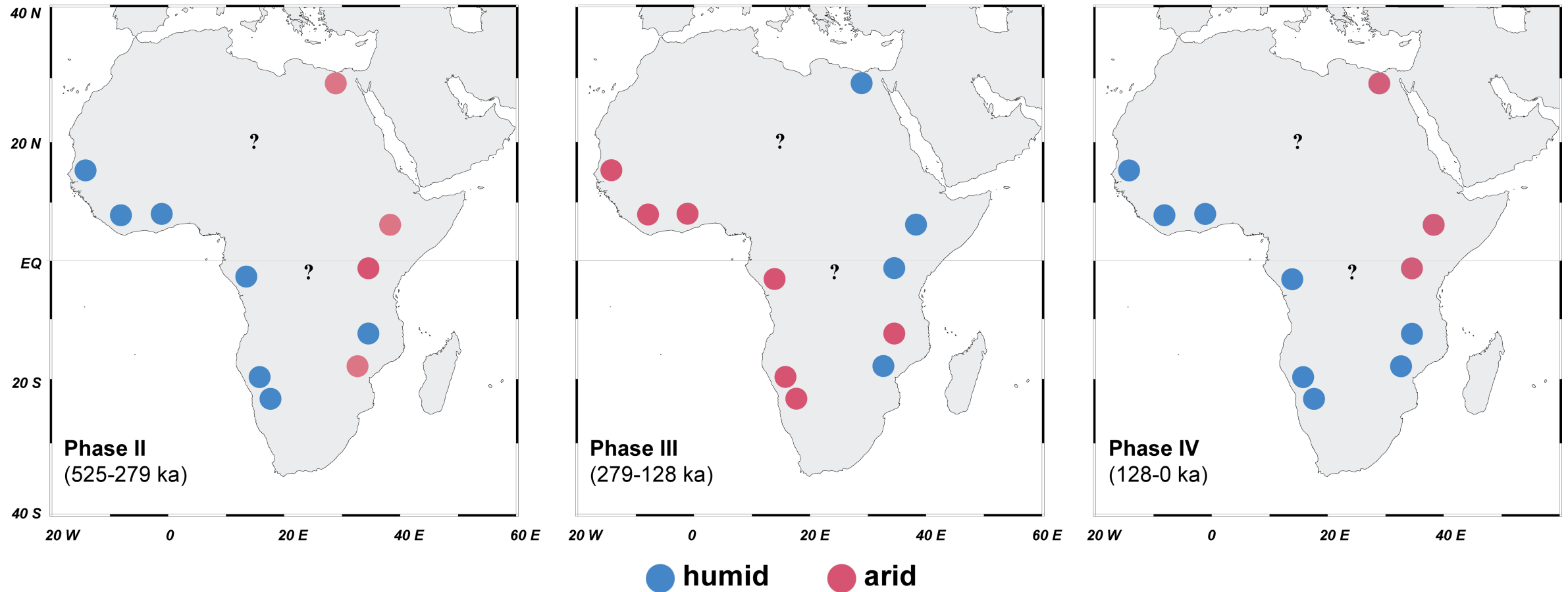
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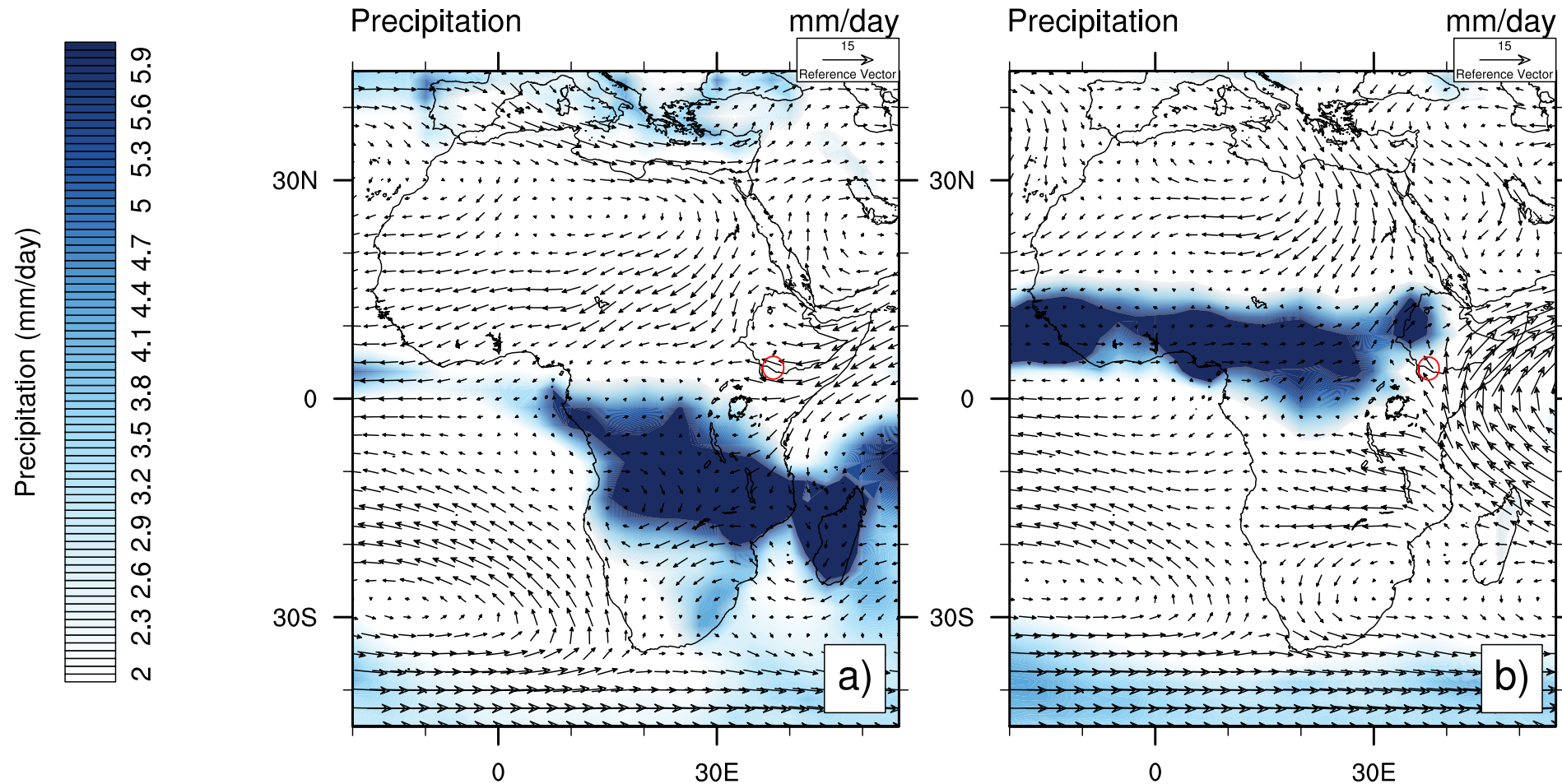
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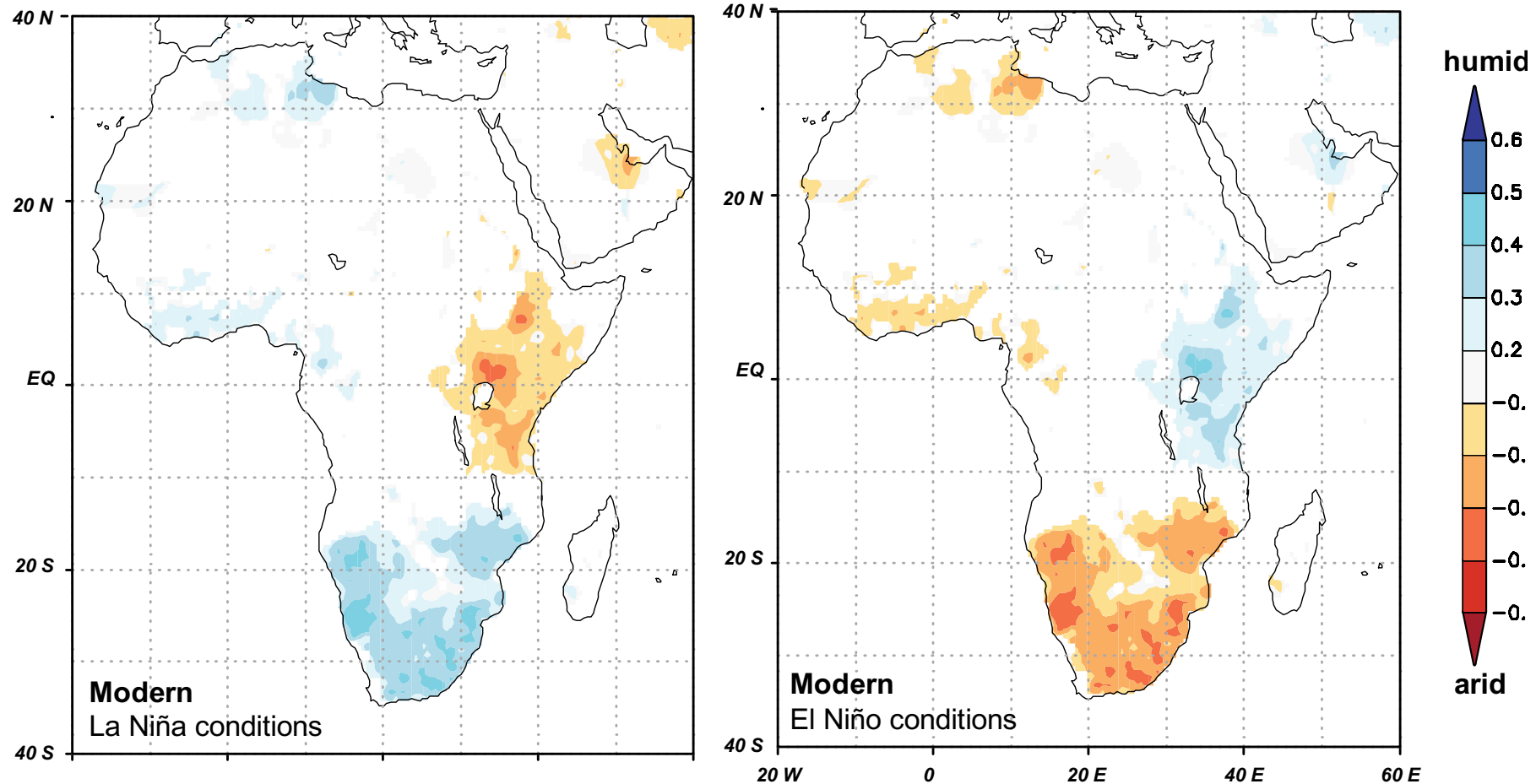
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Dec-Feb

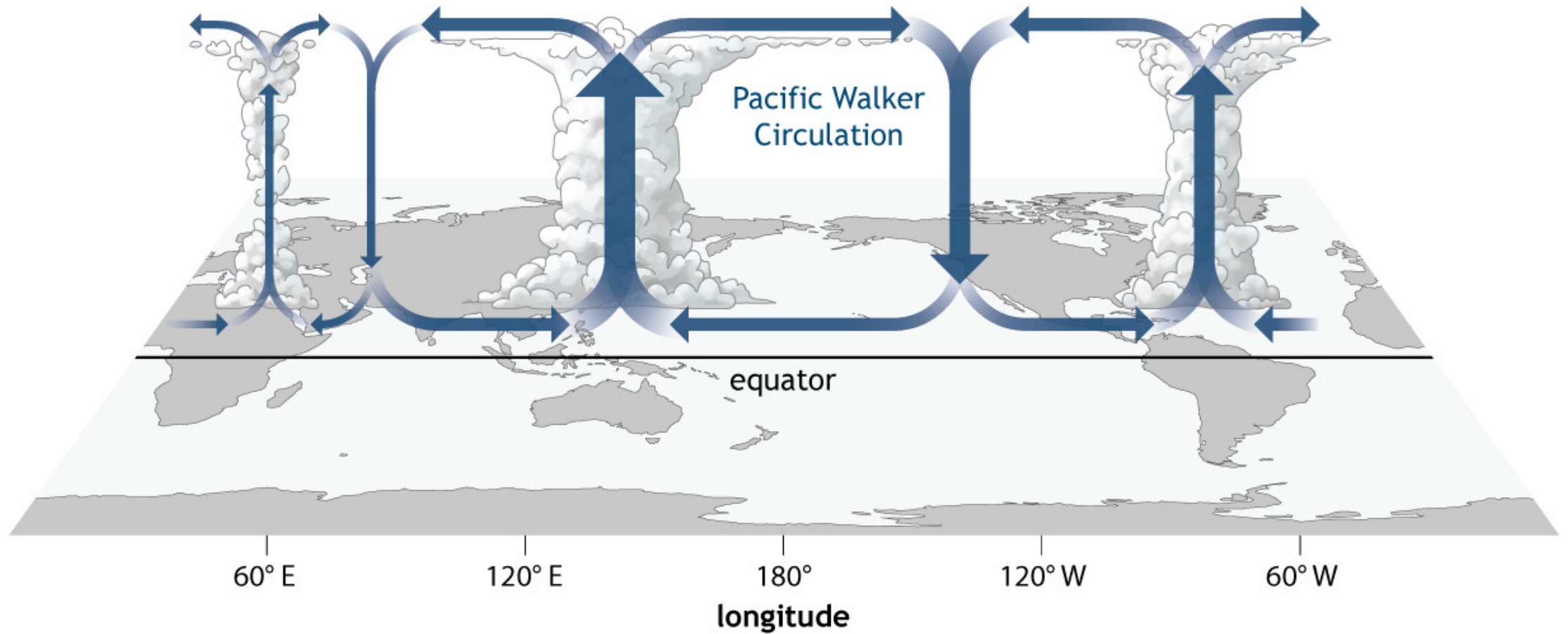
Jun-Sep



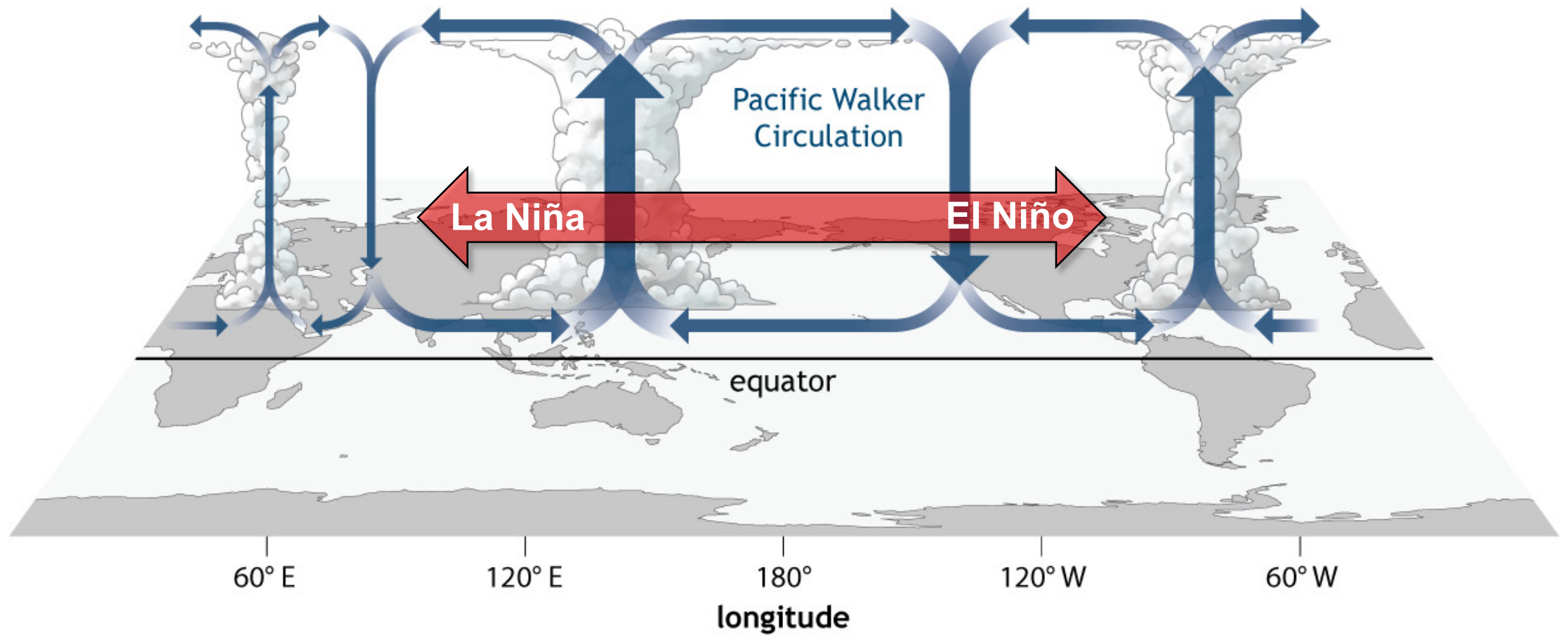
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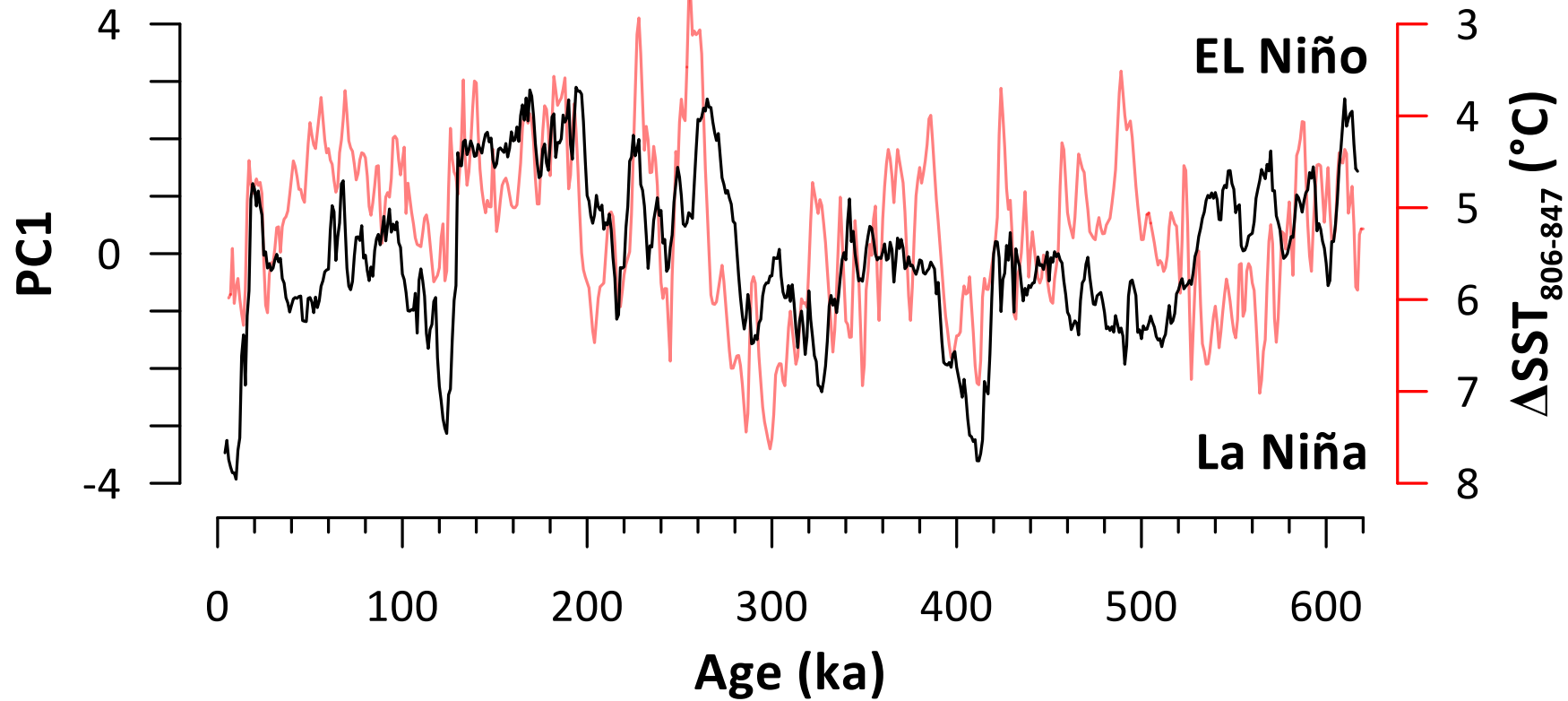
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- **east-west humidity gradient** dominated past pan-African climate variability during the past ~600 kyr



- low latitude forcing – **Walker Circulation changes** – dominant driver of these humidity changes across Africa



- these climate changes drove shifts in vegetation and mammals → thus, likely also shifts in degree of population density and structure as well as core habitation areas of hominins