

Paleo-productivity in the SW Pacific Ocean during the early Holocene climatic optimum

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Additional Supporting Information (Files uploaded separately - .xls file)

Table S1 – Mean and standard deviation of the different proxies Carbonate Mass Accumulation (CMAR), Opal Mass Accumulation (OMAR), Alkenone concentration, Alkenone MAR, Foraminifera Productivity Index (FPI), Dinoflagellate Cyst Productivity Index (DCPI), $\delta^{15}\text{N}_{\text{bulk}}$, Ca/Fe, Si/Fe for the different Holocene timeslices: Early Holocene (11-9 ka), Mid Holocene (8-6 ka) and the Late Holocene (2-0 ka).

Data Table S2 – Carbonate content (%) and calculated Mass Accumulation Rates (MAR) for cores H214, MD97-2121, TAN1106-15, DSDP 594A, TAN1106-43, TAN1302-96

Data Table S3 – Opal content (%) and calculated MAR for cores H214, MD97-2121, TAN1106-15, TAN1106-43, TAN1302-96

Data Table S4 – Alkenone concentrations and calculated MAR for cores MD97-2121, TAN1106-15, MD97-2120, TAN1106-43

Data Table S5 – Foraminiferal Productivity Index (% *Globigerina bulloides*, *Globigerinita glutinata* and *Globigerina quinqueloba*) for cores H214, TAN1106-15, DSDP594A, TAN1106-43

Data Table S6 – Dinoflagellate Cyst Productivity Index for cores H214, TAN1106-15, DSDP594B, TAN1106-43

Data Table S7 – $\delta^{15}\text{N}_{\text{bulk}}$ for cores H214, MD97-2121, TAN1106-15, MD97-2120, TAN1106-43, TAN1302-96

Data Table S8 – Micro-XRF elemental counts (Si, Ca, Ti, Mn, Fe, Br, Sr, Ba) for MD97-2121, TAN1106-15, TAN1106-43, TAN1302-96

Paleo-temperature and chronology of the cores H214, MD97-2121, TAN1106-15, DSDP 594/MD97-2120, TAN1106-43, TAN1302-96 is provided in Prebble et al., (2017).

Introduction

The supporting data tables provide the paleo-productivity data that was used in this paper to assess productivity changes during the Holocene for a latitudinal transect of cores (36-58°S) in the SW Pacific. This is a sister paper to Prebble et al., (2017), which looked at the paleo-temperature estimates and chronology for this same suite of cores.

Reference

Prebble, J.G., Bostock, H.C., Cortese, G., Lorrey, A.M., Hayward, B.W., Calvo, E.C., Northcote, L.C., Scott, G.H., & Neil, H.L. (2017). Evidence for a Holocene Climatic Optimum in the Southwest Pacific: a multiproxy study. *Paleoceanography*, 32, 763–779, doi:10.1002/2016PA003065.