



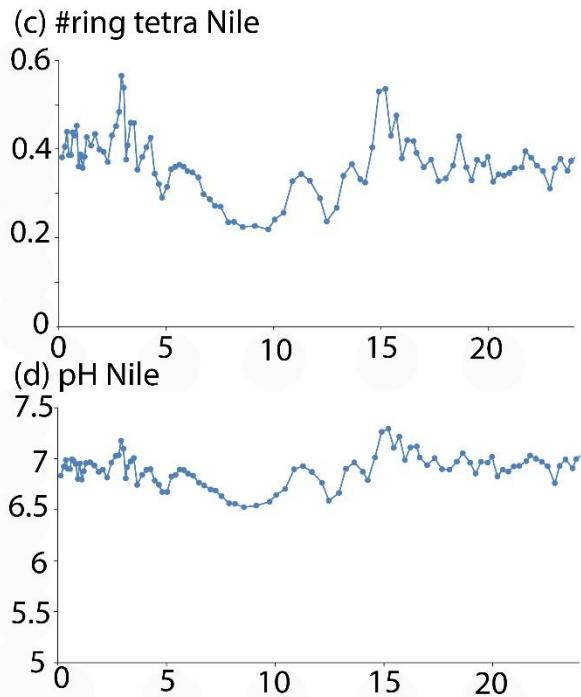
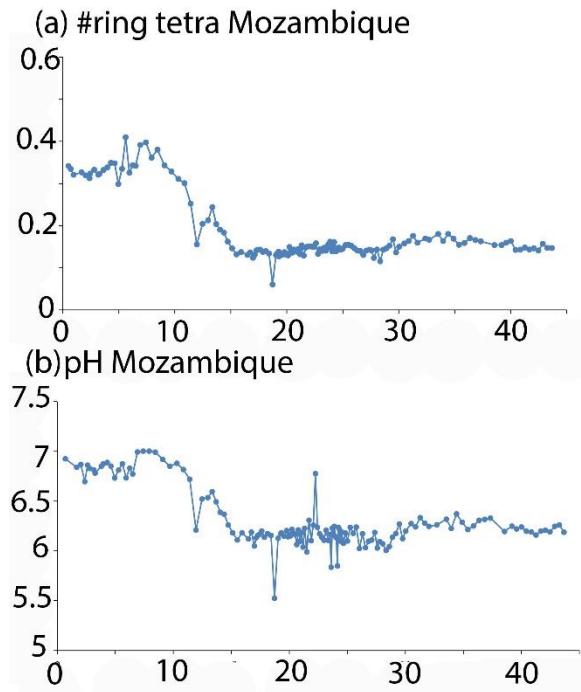
Supplement of

The C₃₂ alkane-1,15-diol as a proxy of late Quaternary riverine input in coastal margins

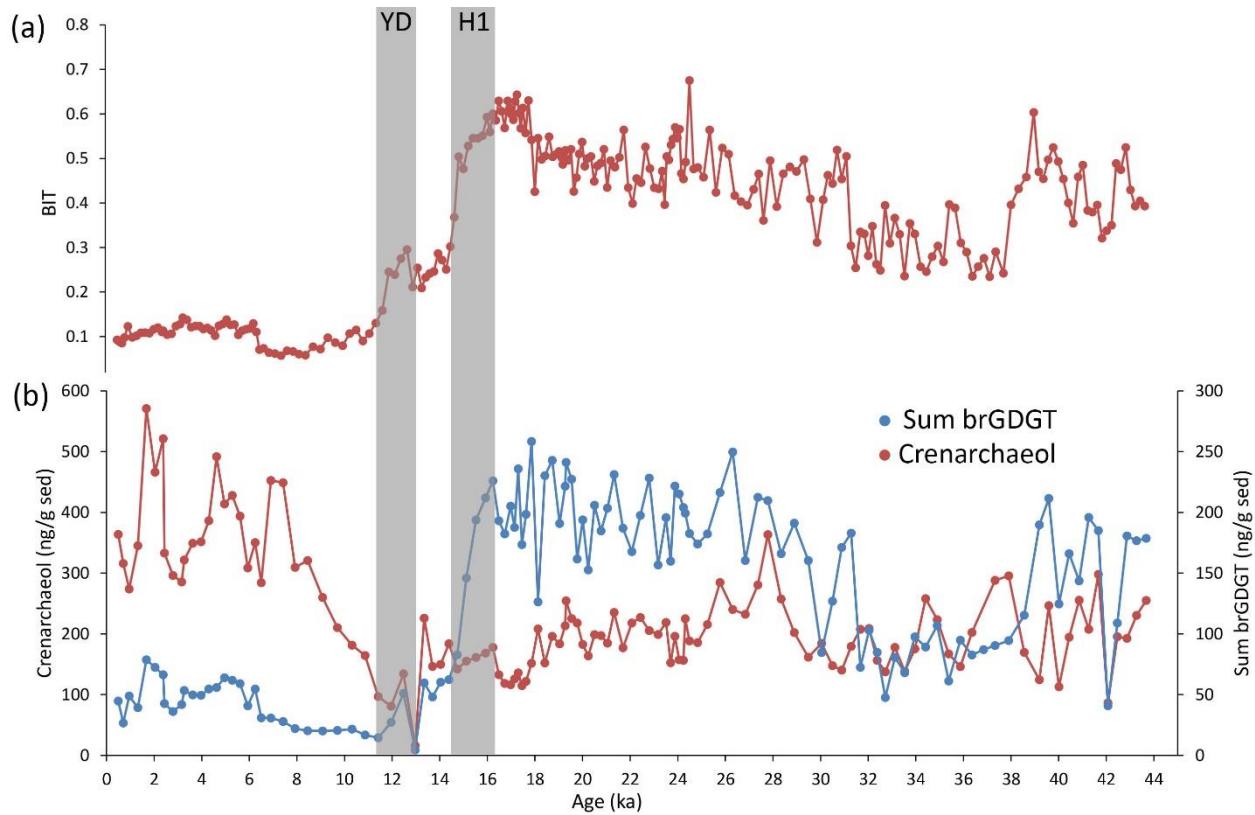
Julie Lattaud et al.

Correspondence to: Julie Lattaud (julie.lattaud@nioz.nl)

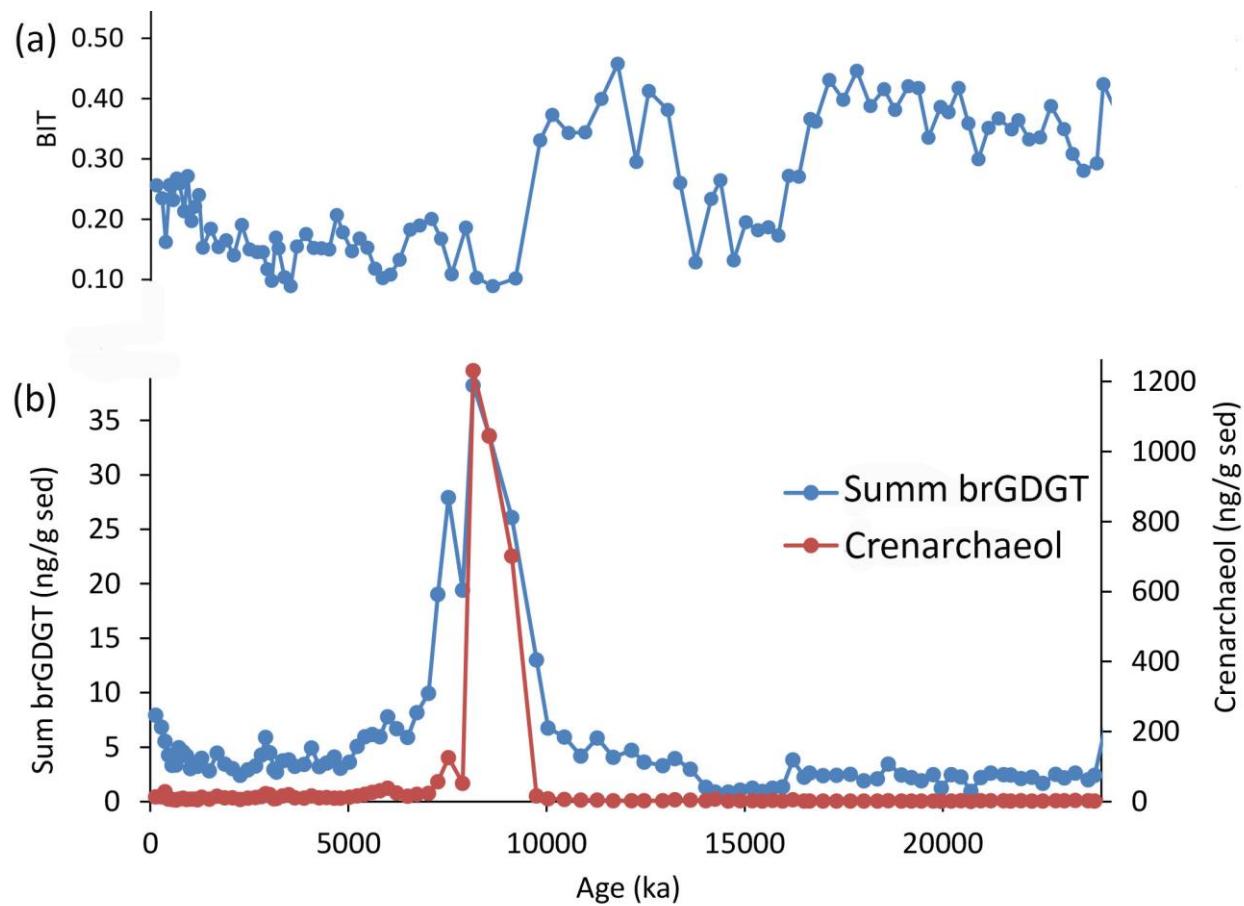
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S1: (a) #ring tetra of core 64PE304-80, (b) reconstructed pH of core 64PE304-80, (c) #ring tetra of core Geob7702-3 and (d) reconstructed pH of core GeoB7702-3.



S2: (a) BIT index of core 64PE304-60 (from Kasper et al., 2015) and (b) Crenarchaeol and brGDGT concentration in core 64PE304-60.



S3: (a) BIT index of core GeoB7702-3 (from Castañeda et al., 2010) and (b) Crenarchaeol and brGDGT concentration in core GeoB7702-3.

Supplementary information:

Age-model of the core 64PE464-3

The chronology was established as described by Kasper et al. (2015) by ^{14}C dating of mixed surface dwelling planktonic foraminifera (*Globigerinoides acculifer*, *G. trilobus* and *G. ruber*) for 20 sediment intervals. These samples were collected from the washed and sieved $> 250 \mu\text{m}$ sediment fraction by selecting individual foraminifera specimens under a microscope. The age model for the upper 6 m, spanning the last 20 ka, was constrained by 11 ^{14}C dates and by stratigraphic correlation with a parallel core (GIK16160-3; Wang et al., 2013b; van der Lubbe et al., 2014). The age model between 20 and 39.5 ka BP was constrained by 9 additional ^{14}C dating points. The ^{14}C age values were converted to calendar age using the MARINE09 calibration curve that applies a standard reservoir correction of ~ 400 yr (Reimer et al., 2011).

Age-model of the core GeoB7702-3

The chronology of GeoB 7702-3 was made as described by Castaneda et al. (2010), by ^{14}C dating of monospecific (*Globigerinoides ruber*) and mixed planktonic foraminifers in 15 sediment intervals. For conversion of the ^{14}C dates to calendar ages, the CALIB 5.01 program (Stuiver and Reimer, 1993) and the Marine04 Data Set (Hughen et al., 2004) were used with an average Atlantic reservoir age of ~ 400 years (Reimer et al., 2011). For ^{14}C ages older than 21,000 years the calibration curve and data set of Fairbanks et al. (2005) were used.