



Supplement of

Biological pump variations in the northeastern Indian Ocean since the last glaciation: evidence from coccolithophores

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Supplementary Figures

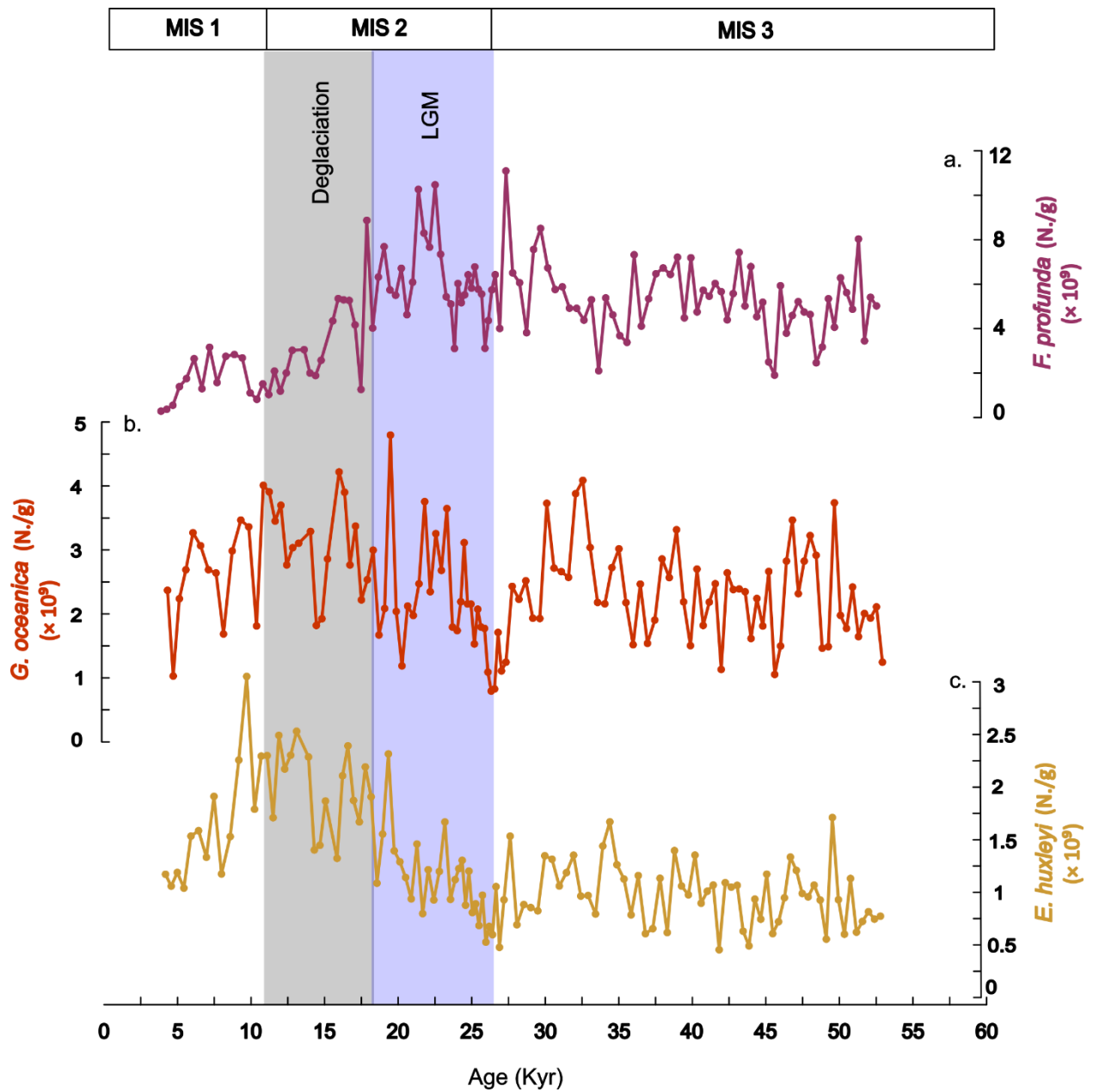


Fig. S1. Absolute abundance of the dominant coccolith species of core YDY05. a. *Florisphaera profunda*; b. *Gephyrocapsa oceanica*; c. *Emiliana huxleyi*. The colour bars show absolute abundance changes of millennial scale intervals: Deglaciation and Last glacial maximum (LGM).

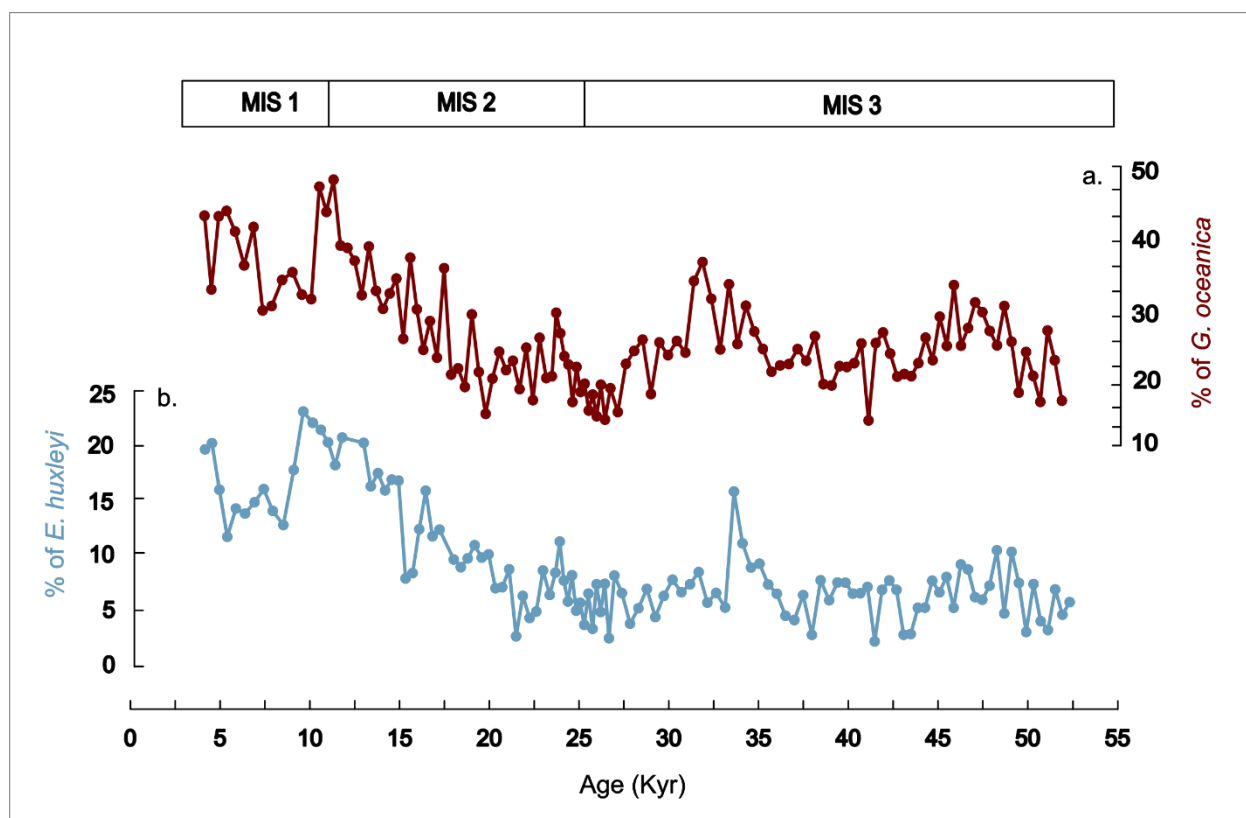


Fig. S2. Relative abundance changes (%) of **a.** *Gephyrocapsa oceanica*; **b.** *Emiliana huxleyi*.

Supplementary tables

Table S1. The AMS radiocarbon and calibrated ages, alongside the calculated sedimentation rate, for core YDY05.

Depth (cm)	Materials	Measured ^{14}C ages (yr BP $\pm$ SD)	Calender ages (yr BP $\pm$ SD)	Sedimentation rate, cm/kyr
7	Mixed planktonic foraminifera	5190 $\pm$ 30	5440	3.75
25	Mixed planktonic foraminifera	9490 $\pm$ 40	10200	4.99
53-54	Mixed planktonic foraminifera	13730 $\pm$ 50	15855	5.19
94-95	Mixed planktonic foraminifera	20510 $\pm$ 70	24590	8.61
122-123	Mixed planktonic foraminifera	23350 $\pm$ 100	27210	4.16
175	Mixed planktonic foraminifera	35590 $\pm$ 280	40195	4.90

Table S2. Comparable core details of this study.

Ocean	Site	Location	Water depth (m)	References
NEIO	YDY05	9.99°N, 90.32°E	3300	This study
NEIO	MGS 22/01	04°58'14" N, 91°39'47" E	3876	Fernandes et al., 2025
NEIO	MD77-176	14°30'5" N, 93°07'6" E	1375	Zhou et al., 2020
NEIO	MD161-19	18°59'102" N, 85°41'1669" E	1480	Da Silva et al., 2017
NEIO	SO188-17286-1	19°44.58' N, 89°52.76' E	1428	Lauterbach et al., 2020
NEIO	BoB-24	15°34'27.4" N, 87°9'26.2" E	2586	Liu et al., 2021
NEIO	SK157-16	8°46' N, 90°18' E	2920	Banerjee et al., 2024
Equatorial IO	MD90-0963	5°03.309N, 73°53.609E	2446	Beaufort et al., 1997
West IO	GeoB12613-1	05°29' S, 40°56' E	2292	Tangunan et al., 2017
West IO	MD85-668	1°07' S, 46°30' E	2120	Rickaby et al., 2007
East IO	SO139-74KL	6°32.58' S, 103°50.02' E	1939	Andruleit et al., 2007