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*Supplement of*

## **Response of biological productivity to North Atlantic marine front migration during the Holocene**

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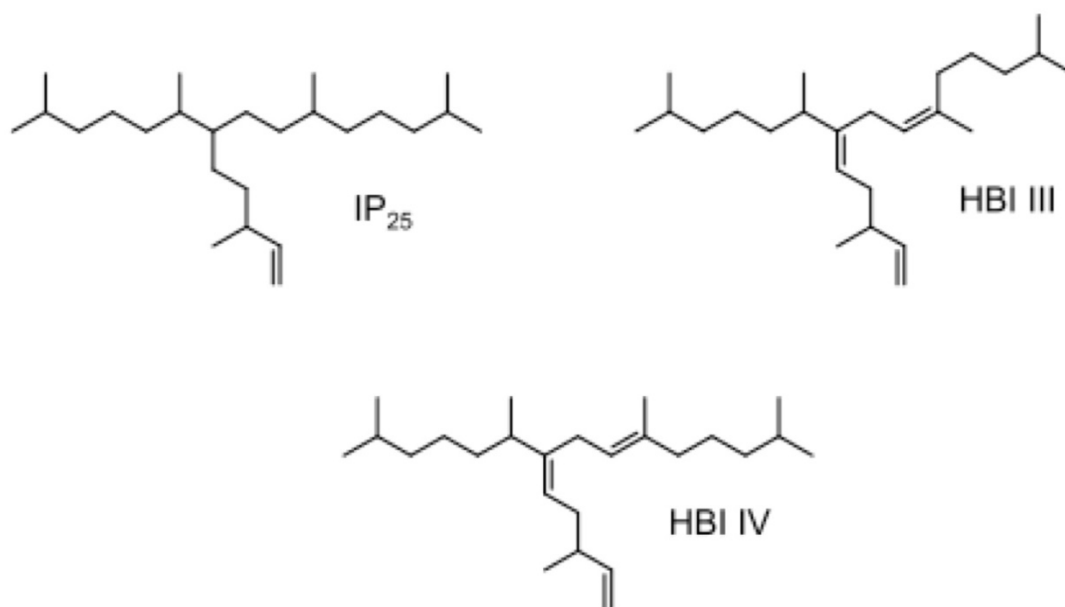
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**Table S1:** Marine sediment core proxy records from Iceland's insular shelves.

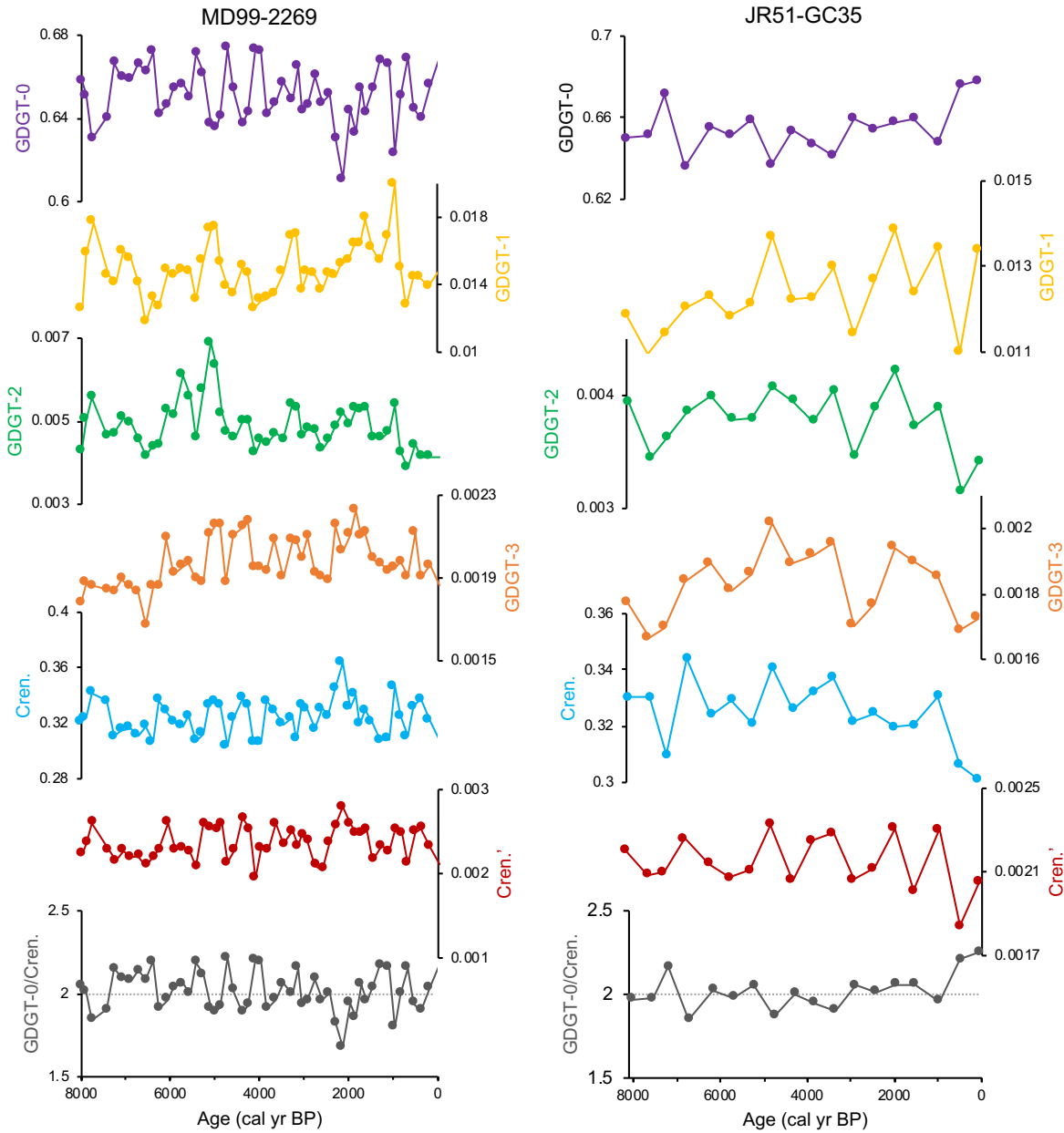
Marine core	Time Interval (ka BP)	Proxies	Reference
MD99-2269	10 to 0	diatoms	Andersen et al. (2004)
MD99-2269	10 to 0	coccolithophores, CaCO <sub>3</sub> , low-resolution benthic foram.	Giraudeau et al. (2004)
MD99-2269	11.5 to 0	CaCO <sub>3</sub> , quartz	Moros et al. (2006)
MD99-2269	10 to 0	dinocysts	Solignac et al. (2006)
MD99-2269	4 to 0	Mg/Ca of benthic foram.	Kristjánsdóttir et al. (2007a)
MD99-2269	12 to 0	tephra	Kristjánsdóttir et al. (2007b)
MD99-2269	12 to 0	PSV age model	Stoner et al. (2007)
MD99-2269	11.5 to 0	diatoms	Justwan et al. (2008)
MD99-2269	8 to 0	IP <sub>25</sub> , HBI III, <i>T. quinqueloba</i> , <i>N. pachyderma</i> (s)	Cabedo-Sanz et al. (2016)
MD99-2269	11.4 to 0.4	Mg/Ca and δ <sup>18</sup> O of benthic and planktic foram., δ <sup>13</sup> C planktic foram., alkenones	Kristjánsdóttir et al. (2017)
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JR51-GC35	10.2 to 0	<sup>14</sup> C chronology, alkenones	Bendle & Rosell-Melé (1997)
JR51-GC35 and MD99-2264	12 to 0	minerology	Andrews et al. (2014)
JR51-GC35	8 to 0	HBI, planktic foraminifera	Cabedo-Sanz et al. (2016)
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MD99-2275	1.2 to 0	IP <sub>25</sub>	Massé et al. (2008)
MD99-2275	2 to 0	diatoms	Jiang et al. (2005)
MD99-2275 and -2271	2 to 0	dinocysts, benthic and planktic foram. and δ <sup>18</sup> O, diatoms, sedimentology	Eiríksson et al. (2006)
MD99-2275	2 to 0	alkenones	Sicre et al. (2008a)
MD99-2275	4.5 to 0	alkenones, magnetics	Sicre et al. (2008b)
B05-2006-MC04	0.13 to 0	benthic and planktic foram., diatoms, IRD	Knudsen et al. (2009)
MD99-2275	2 to 0	alkenones	Sicre et al. (2011)
MD99-2275	15 to 0	tephra	Gudmundsdóttir et al. (2012)
MD99-2275	1 to 0	benthic and planktic foram. and δ <sup>18</sup> O	Knudsen et al. (2012)
MD99-2275	9.3 to 0	diatoms	Jiang et al. (2015)
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HM107-04 and -05	14 to 0	grain size, minerology, MS, water content, CaCO <sub>3</sub> , benthic and planktic foram., tephra	Eiríksson et al. (2000a)
HM107-03	4.5 to 0	benthic and planktic foram., grain size, IRD, tephra	Eiríksson et al. (2000b)
HM107-03	4.6 to 0	diatoms	Jiang et al. (2002)
HM107-04 and -05	15.8 to 0	benthic and planktic foram. and δ <sup>18</sup> O, diatoms	Knudsen et al. (2004a)

HM107-03 and -02, MD99-2275	1.2 to 0	benthic and planktic foram. and $\delta^{18}\text{O}$ , diatoms, IRD	Knudsen et al. (2004b)
MD99-2264 and B997 cores	36 to 0	IRD, $\text{CaCO}_3$ , MS	Geirsdóttir et al. (2002)
MD99-2256 and -2264	11.5 to 0	benthic foram. and $\delta^{18}\text{O}$	Ólafsdóttir et al. (2012)
MD99-2266	10.6 to 0.5	$\delta^{18}\text{O}$ of benthic foram., $\text{CaCO}_3$ , MS, grain size, carbonate, IRD	Quillmann et al. (2010)
MD99-2266	8.4 to 7.6	Mg/Ca and $\delta^{18}\text{O}$ of benthic foram., $\text{CaCO}_3$	Quillmann et al. (2012)
MD99-2266	10.7 to 0.3	C, N, GDGTs, alkenones, <i>n</i> -alkanes	Moossen et al. (2013)
MD99-2266	10.7 to 0.3	GDGTs, alkenones, <i>n</i> -alkanes and $\delta\text{D}$	Moossen et al. (2015)
MD99-2263	2 to 0	grain size, magnetics, minerology, benthic and planktic foram and $\delta^{18}\text{O}$ , $\text{IP}_{25}$	Andrews et al. (2009)
MD99-2263	12 to 0	minerology, IRD, $\text{CaCO}_3$ , $\text{IP}_{25}$	Darby et al. (2017)
MD99-2271, -2272, -2275	4.5 to 0	grain size, C, MS, water content, $\text{CaCO}_3$ , benthic and planktic foram., tephra	Knudsen & Eiríksson (2002)
MD99-2271, -2273, -2275	4.5 to 0	tephra and $^{14}\text{C}$	Eiríksson et al. (2004)
MD99-2273	0.9 to 0.5	alkenones, $\text{IP}_{25}$	Sicre et al. (2013)
MD99-2272	15 to 4	$\text{IP}_{25}$ , HBI III, sterols, <i>n</i> -alkanols, tephra	Xiao et al. (2017)
B997 cores	<45	$^{14}\text{C}$	Andrews et al. (2000)
B997 cores	4 to 0	MS, $\text{CaCO}_3$ , grain size, pollen	Andrews et al. (2001a)
B997 cores	5 to 0	$\text{CaCO}_3$	Andrews et al. (2001b)
B997 cores	10.2	tephra, magnetics	Andrews et al. (2002a)
B997 cores	36 to 0	grain size, IRD, density, MS, magnetics, C, $\text{CaCO}_3$	Andrews et al. (2002b)
B997 cores	10 to 0	coccolithophores, $\text{CaCO}_3$	Andrews & Giraudeau (2003)
B997 cores	44 to 0	grain size, density, MS, foram., tephra	Andrews & Helgadóttir (2003)
B997 cores	14 to 0	benthic and planktic foram and $\delta^{18}\text{O}$	Castaneda et al. (2004)
B997 cores	10 to 0	benthic and planktic foram and $\delta^{18}\text{O}$	Smith et al. (2005)
B997 cores	2 to 0	minerology	Andrews & Eberl (2007)
B997 cores	12 to 0	PSV	Andrews et al. (2008)
B997 cores	12 to 0	minerology	Andrews (2009)
B997 cores	0.8 to 0	quartz, $\text{CaCO}_3$ , $\text{IP}_{25}$ , HBI III, GDGTs	Harning et al. (2019)

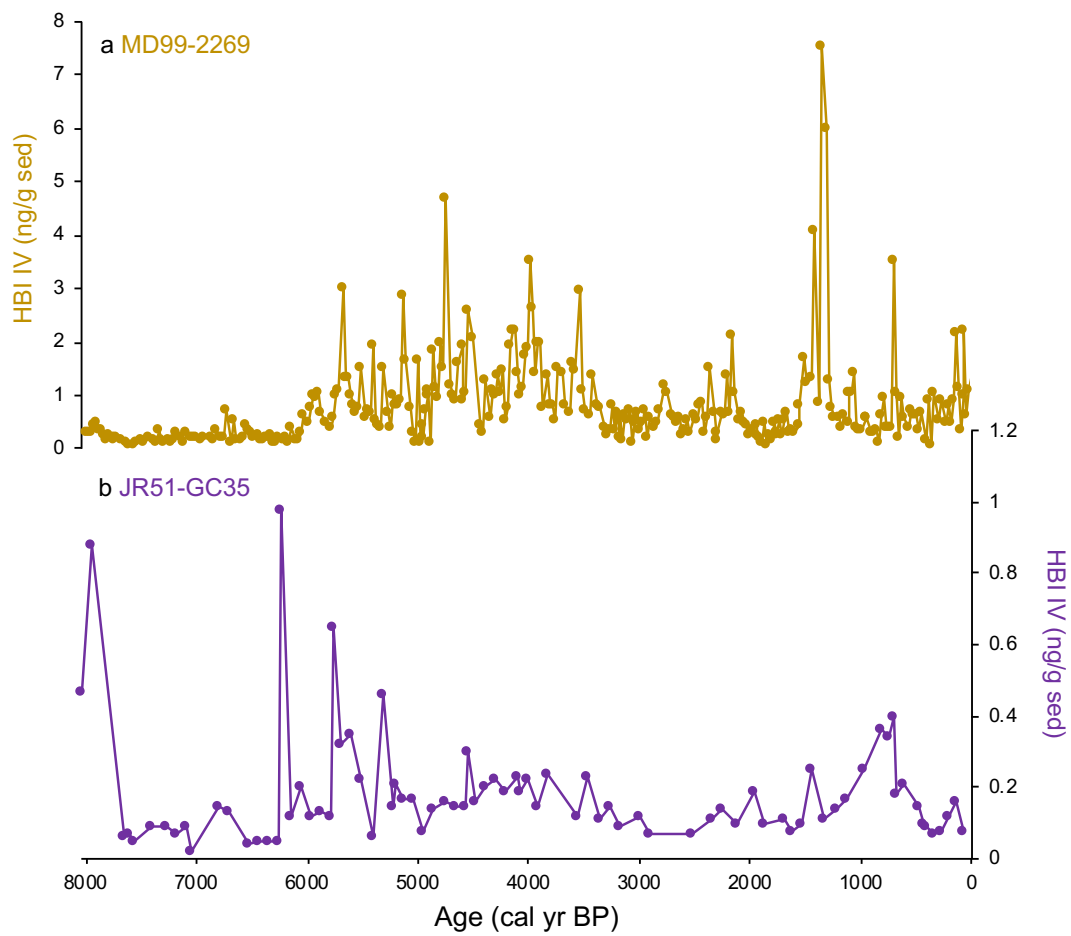
KN 158-4-72GGC (Djúpall)		carbonate, grain size, minerology	Andresen et al. (2005)
93030-006 LCF	12.7 to 9.4 ( $^{14}\text{C}$ yrs)	grain size, IRD, C, $\text{CaCO}_3$ , MS, benthic and planktic foram., tephra	Jennings et al. (2000)
93030-03BC	0.4 to 0	C, minerology, magnetics, $\text{CaCO}_3$ , planktic foram. and $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$	Jennings et al. (2001)



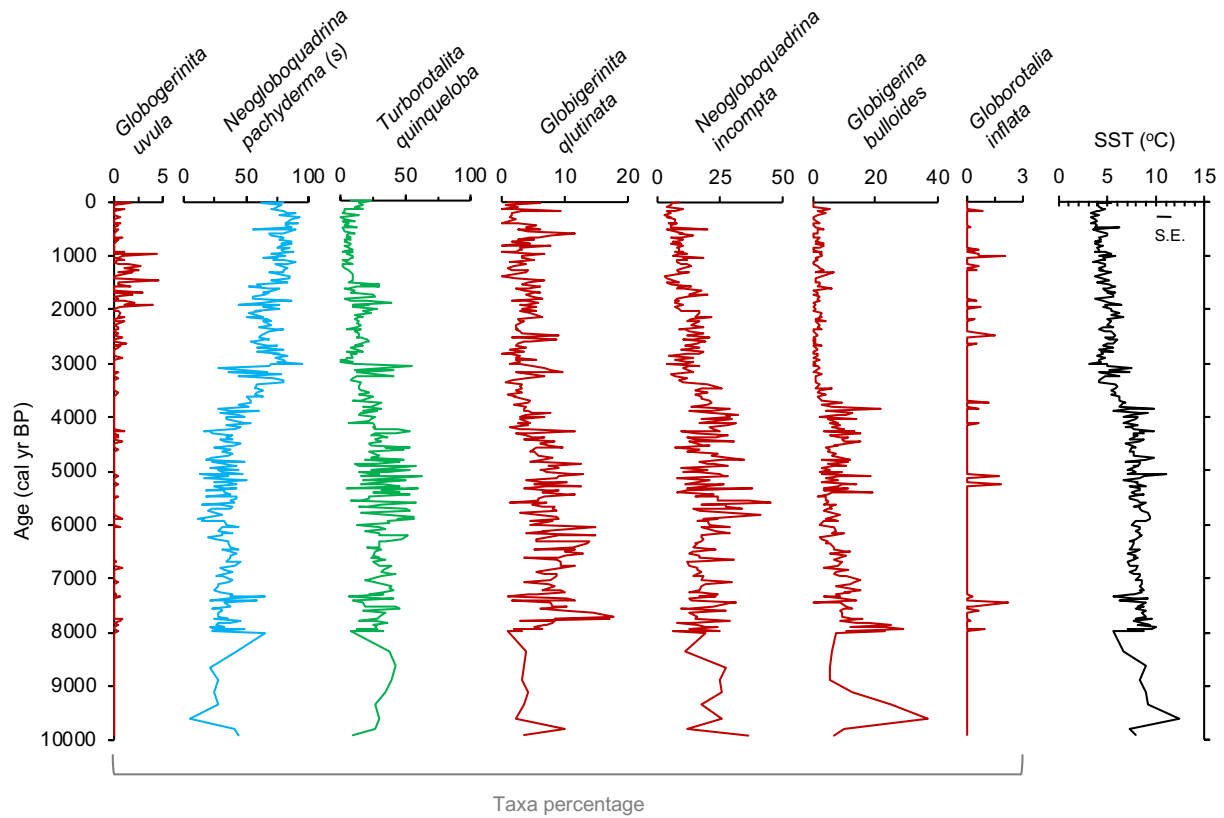
**Fig. S1:** Structures of highly branched isoprenoid (HBI) biomarkers discussed in the current study.



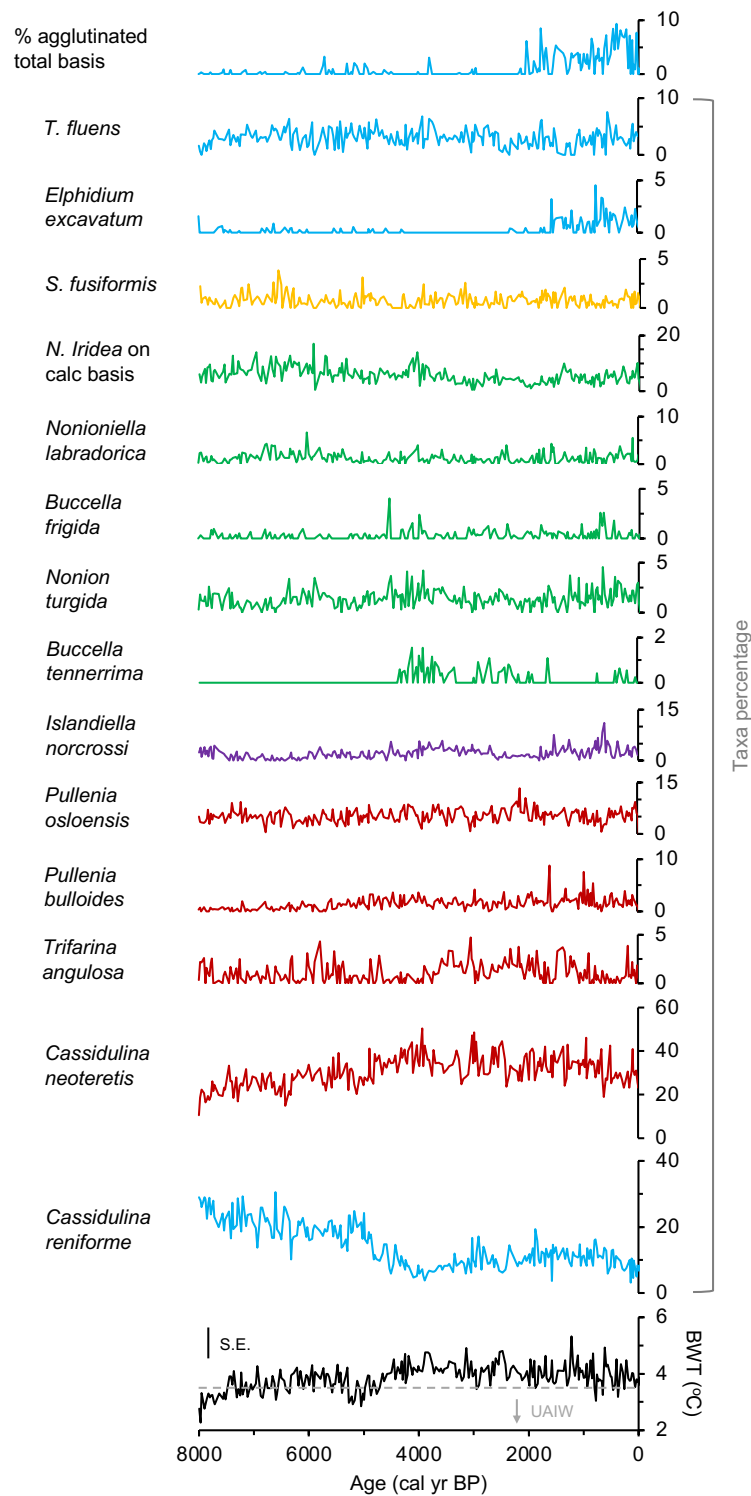
**Fig. S2: Fractional abundances of individual GDGTs and GDGT-0/crenarchaeol ratios for MD99-2269 (left) and JR51-GC35 (right).** GDGT-0/crenarchaeol values around and below 2 (grey dotted line) indicate that the GDGT pool is not altered by methanogenic contributors (e.g. Blaga et al., 2009).



**Fig. S3:** Downcore HBI IV records from a) MD99-2269 and b) JR51-GC35.

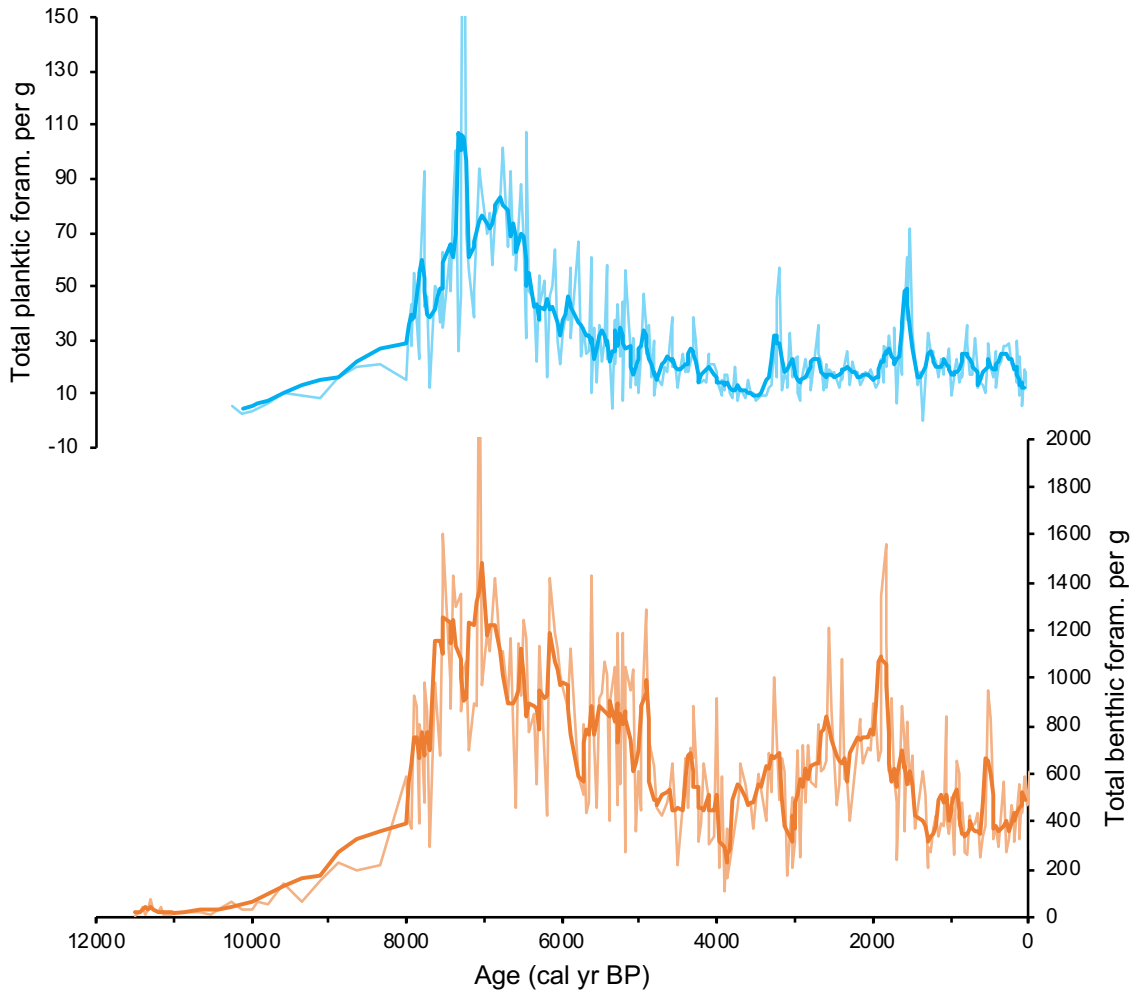


**Fig. S4: Planktic foraminiferal species in MD99-2269 used to estimate summer SSTs over the last 10 ka BP, with emphasis on high-resolution estimates for the past 8 cal ka BP. Colors indicate environmental preferences: red=Atlantic Water species, blue=Arctic, green=frontal species.**



**Fig S5: Select benthic species used to estimate BWT in MD99-2269 over the last 8 cal ka BP.** Species colors indicate environmental preferences: red=Atlantic; blue=Arctic, purple=mixed Atlantic Water, green=productivity, yellow=indifferent.





**Fig. S6:** Downcore records from MD99-2269 for planktic and benthic foraminifera per gram. Bold line is a 5-pt running mean.

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