

**Deepwater circulation variation in the South China Sea since the Last Glacial**

**Maximum**

Xufeng Zheng<sup>a</sup>, Shuhji Kao<sup>b</sup>, Zhong Chen<sup>a</sup>, Laurie Menviel<sup>c</sup>, Han Chen<sup>d</sup>, Yan Du<sup>e</sup>, Shiming Wan<sup>f</sup>,  
Hong Yan<sup>g</sup>, Zhonghui Liu<sup>h</sup>, Liwei Zheng<sup>b</sup>, Shuhong Wang<sup>a</sup>, Dawei Li<sup>b</sup>, Xu Zhang<sup>i</sup>

**a.** Key Laboratory of Marginal Sea Geology, South China Sea Institute of Oceanology, Chinese Academy of Sciences, Guangzhou, 510301, China

**b.** State Key Laboratory of Marine Environmental Science, Xiamen University, Xiamen, China

**c.** Climate Change Research Centre, ARC Centre of Excellence for Climate System Science, University of New South Wales, Sydney, Australia

**d.** Island Research Center, State Oceanic Administration, Fuzhou, China

**e.** State Key Laboratory of Tropical Oceanography, South China Sea Institute of Oceanology, Chinese Academy of Sciences, Guangzhou, 510301, China

**f.** Key Laboratory of Marine Geology and Environment, Institute of Oceanology, Chinese Academy of Sciences (CAS) 7 Nanhai Road, Qingdao, 266071, China

**g.** State Key Laboratory of Loess and Quaternary Geology, Institute of Earth Environment, Chinese Academy of Sciences, Xi'an, China

**h.** Department of Earth Sciences, University of Hong Kong, Hong Kong, China

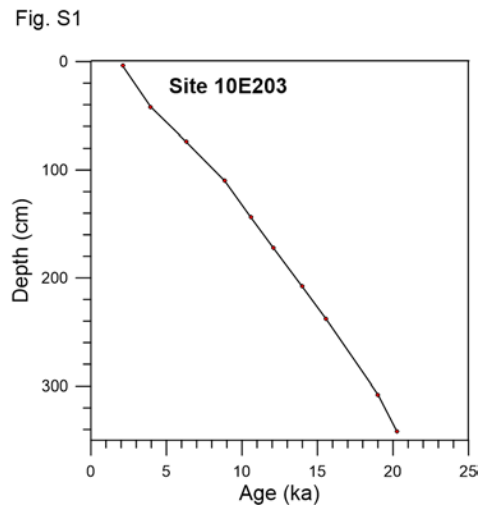
**i.** Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung, Am AltenHafen 26, 27568Bremerhaven, Germany

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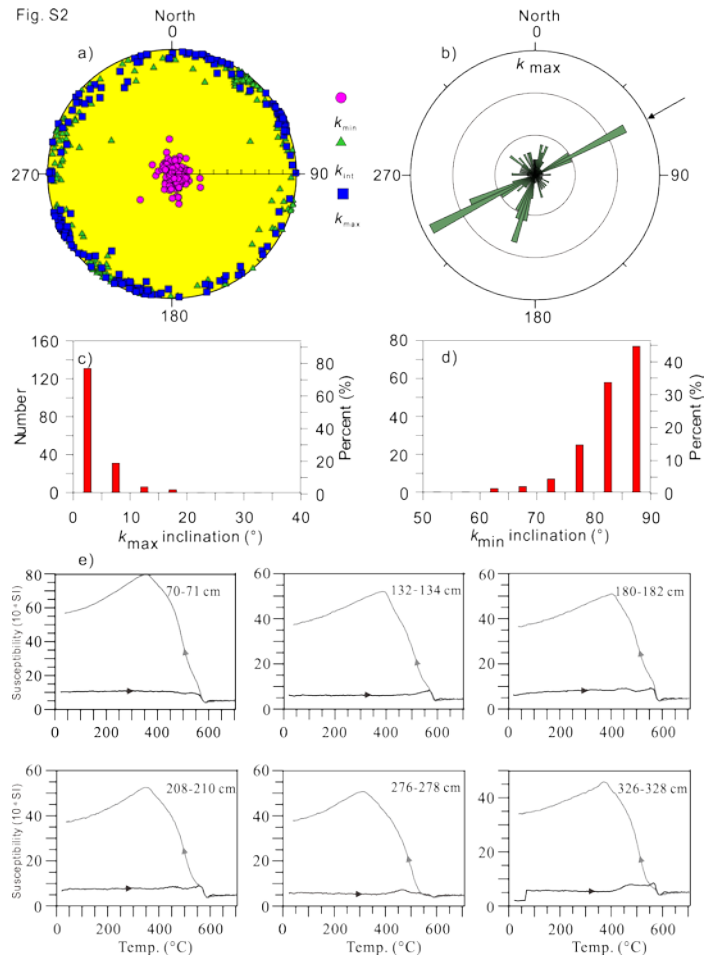
Figures S1 to S5

Table S1

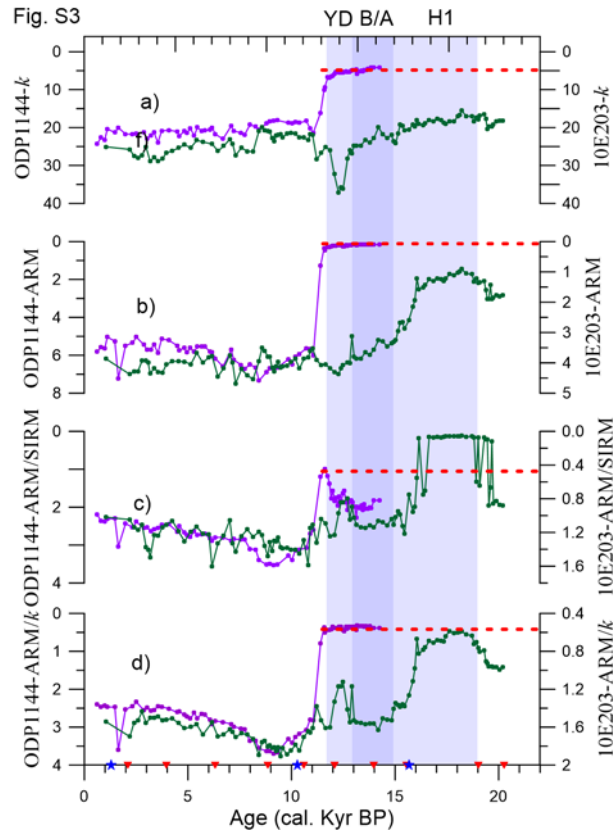
Captions for Datasets S1



**Figure S1.** Age-depth model of core 10E203

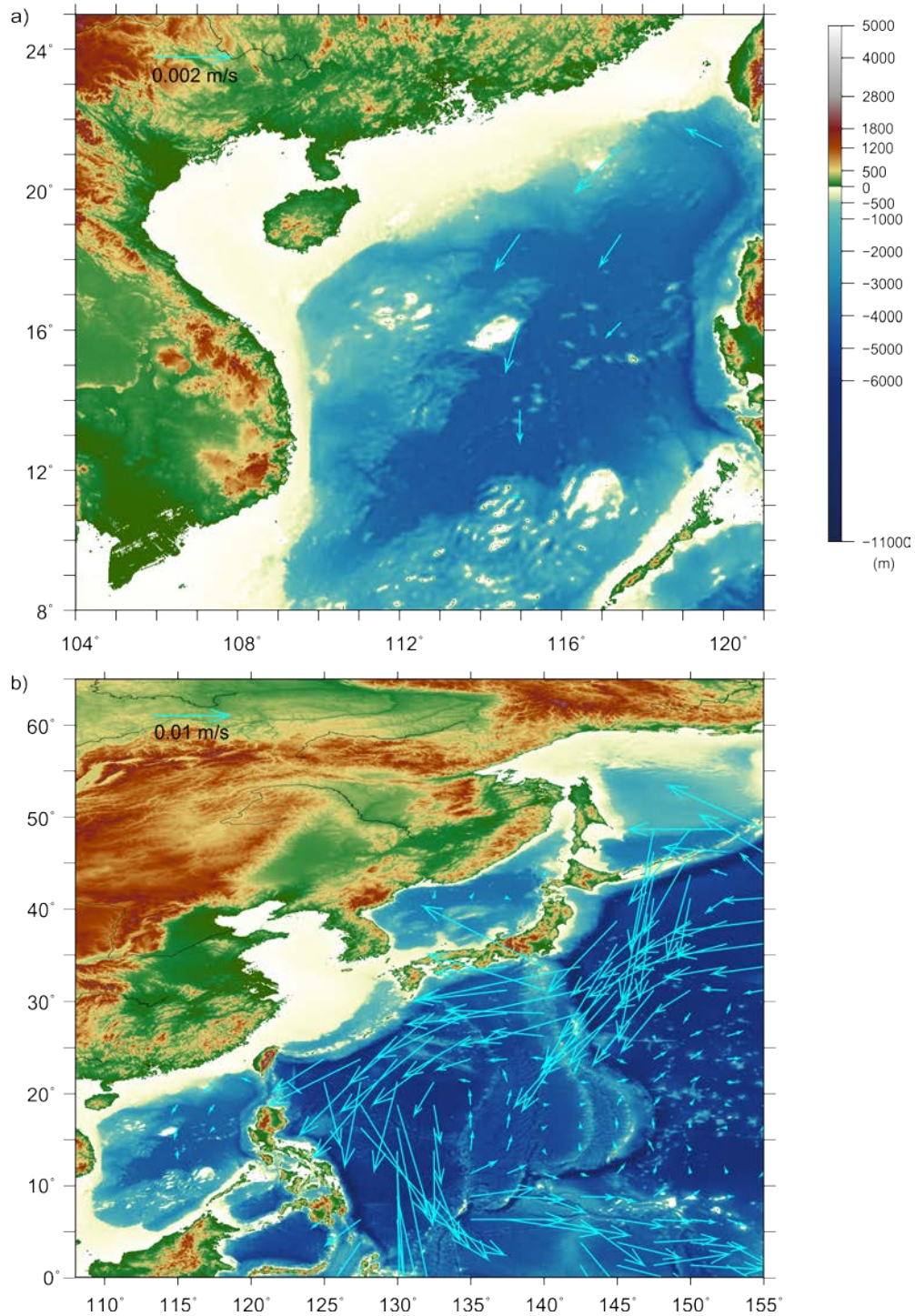


**Figure S2. a)** Distribution of the principal axes of anisotropy (in geographic coordinates):  $k_{min}$  (pink circles),  $k_{int}$  (green triangles) and  $k_{max}$  (blue squares), **b)** rose diagram of the azimuth of  $k_{max}$ , **c)** statistical results of the inclination of  $k_{max}$ , **d)** statistical results of the inclination of  $k_{min}$ , **e)** six representative thermomagnetic curves obtained from different depths (the heating curve in black and the cooling curve in gray).



**Figure S3.** Comparison of the temporal variations in **a)  $k$** , and **b) ARM**, **c) ARM/SIRM**, and **d) ARM/ $k$**  ratio of core 10E203 (green circle) and site ODP1144 (violet circle) [Hu *et al.*, 2012], the red inverted triangles, blue star represent  $^{14}\text{C}$  dating points for core 10E203 and site ODP1144, respectively.

Fig. S4



**Figure S4:** Simulated current anomalies during H1 compared to the LGM **a)** in the SCS and **b)** North Pacific averaged over 1443 to 1992 m water depth.

<b>Section</b>	<b>Depth (cm)</b>	<b>Number</b>	<b>Mean chRM declination</b>	<b>Mean chRM inclination</b>	<b>Calibrated angle</b>
1	0~28	6	331°	38°	29°
2	28~124	28	202°	35°	158°
3	124~232	26	205°	29°	155°
4	232~344	34	252°	24°	108°

**Table S1** Summary of mean characteristic remanent magnetization parameters for each section and calibrated angle.

**Data Set S1.** Paleomagnetic and anisotropy of magnetic susceptibility data of core 10E203