

Core no. 21533-3 (PS 1533-3) G.C. N 82° 01.90' E 15° 10.70': 2030 m b.s.l.

Age control:

Date: 09/2000

- *N. pachyderma* sin. ¹⁸O record (Köhler, 1992)
- AMS ¹⁴C dating on *N. pachyderma* sin. (Köhler, 1992; Nørgaard-Pedersen et al., in prep.)
- ¹⁰Be stratigraphy (Eisenhauer et al., 1994)

Core fit :

- None

Surface sediment age :

-

Age/depth correlation :

Orig. depth [cm]	¹⁴ C age [ky BP]	Error ±	Calendar years [ka]	Sed.rate [cm/ky]	Original interval/ material/ ^δ ¹⁸ O stratigraphy	Core no.	Remarks
15	6.21	80	7.12	2.1	AMS ¹⁴ C dating	- 3	
32		300	18.30	- . -	¹⁰ Be stratigraphy		ignored
62			18.30	4.2	AMS ¹⁴ C analogue	- 3	
68	16.25	120	19.13	7.2	AMS ¹⁴ C dating	- 3	
84	17.87	180	21.37	7.1	AMS ¹⁴ C dating	- 3	
92	18.16	130	21.74	21.6	AMS ¹⁴ C dating	- 3	
110	22.79	200	26.68	3.6	AMS ¹⁴ C dating	- 3	

Remarks :

- Calendar years converted from ¹⁴C years using CALIB-4. 1.2 and, beyond 20.3 ¹⁴C ka, by applying the age shift determined by Voelker et al. (1998).
- "14.8" ka based on upcore extrapolation of LGM sedimentation rates.

Original references:

- Nørgaard-Pedersen, N., Spielhagen, R., Erlenkeuser, H., Grootes, P.M. & Knies, J. (in prep.): The Arctic Ocean during the Last Glacial Maximum: Atlantic and Polar Domains of Surface Water Mass Distribution and Ice Cover. - to be submitted to *Paleoceanography*.
- Köhler, S.E.I. (1992): Spätquartäre paläozeanographische Entwicklung des Nordpolarmeeres anhand von Sauerstoff- und Kohlenstoffisotopenverhältnissen der planktischen Foraminifere *Neogloboquadrina pachyderma* (sin.) - *Geomar Rep.*, 13, 103 pp.

LGM time slice:

- GLAMAP: 62-86.5 cm orig. depth in core (-3)
- EPILOG: 68-96.5 cm orig. depth in core (-3)

LGM foraminifera counts: Pflaumann (UP)

- GLAMAP: (in core -3) 67, 73, 79 cm orig. depth.
- EPILOG: (in core -3) 73, 79 cm orig. depth.

References for faunal analysis:

- Pflaumann et al., *Paleoceanography*, in prep.

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