

Core no. 17730-4 K.C. N 72° 06.7' E 7° 23.3': 2749 m b.s.l.

Age control: Date: 1993

- *N. pachyderma* sin. <sup>18</sup>O record (Weinelt, 1993)
- AMS <sup>14</sup>C dating on *N. pachyderma* sin. (Weinelt, 1993)

Core fit :

- None

Surface sediment age :

- 0 yrs B.P.

Age/depth correlation :

Orig. depth	<sup>14</sup> C age	Error ±	Calendar years		Sed.rate	Original interval/ material/	Core no.	Remarks
[cm]	[ky BP]		[ka]		[cm/ky]	δ <sup>18</sup> O stratigraphy		monospecific samples
0	0		0		7.35	AMS <sup>14</sup> C dated in boxcore -2	- 2	
20	2.93	100	2.72	a	6.99	AMS <sup>14</sup> C dated	- 4	
40	5.21	70	5.58	a	7.81	AMS <sup>14</sup> C dated	- 4	
50	6.4	110	6.86	a	12.42	AMS <sup>14</sup> C dated	- 4	
70	8.07	90	8.47	a	22.2	AMS <sup>14</sup> C dated	- 4	
100	9.12	590	9.82	a	4.31	AMS <sup>14</sup> C dated	- 4	
112.5	11.19	100	12.72	a	6.54	AMS <sup>14</sup> C dated	- 4	
122.5	12.63	120	14.25	a	1.75	AMS <sup>14</sup> C dated	- 4	
127.5	13.6		17.1	a	4.17	AMS <sup>14</sup> C analogue		
132.5	14.8		18.3	a	4.21	AMS <sup>14</sup> C analogue		
145	17.77	160	21.27	a	10.0	AMS <sup>14</sup> C dated	- 4	
160	19.27	220	22.77	a	6.21	AMS <sup>14</sup> C dated	- 4	
180	22.49	330	25.99	a	4.99	AMS <sup>14</sup> C dated	- 4	
197.5	26		29.5	a	5.83	AMS <sup>14</sup> C analogue		
220	29.86	590	33.36	a	3.06	AMS <sup>14</sup> C dated	- 4	

a) corrected after Bard et al. (1990)

Remarks:

- None

Original references:

- Sarnthein, M., Jansen, E., Weinelt, M., Arnold, M., Duplessy, J.-C., Erlenkeuser, H., Flatøy, A., Johannessen, G., Johannessen, T., Jung, S., Koc, N., Labeyrie, L., Maslin, M., Pflaumann, U. & Schulz, H. (1995): Variations in Atlantic surface ocean paleoceanography, 50° - 85°N: A time-slice record of the last 30,000 years. - *Paleoceanography*, 10, 1063-1094
- Weinelt, M. (1993): Veränderungen der Oberflächenzirkulation im Europäischen Nordmeer während der letzten 60.000 Jahre - Hinweise aus stabilen Isotopen. - *Ber. SFB 313, Univ. Kiel*, 41, 106 pp.

LGM time slice:

- GLAMAP: 132.5-147 cm orig. depth in core (-4)
- EPILOG: 135-157 cm orig. depth in core (-4)

LGM foraminifera counts: Schulz (HS), Weinelt (MW)

- GLAMAP: (in core -4) 133, 140, 145 cm orig. depth.
- EPILOG: (in core -4) 140, 145, 150, 155, 157 cm orig. depth.

References for faunal analysis:

- Schulz, H. (1995): Meeresoberflächentemperaturen vor 10.000 Jahren - Auswirkungen des frühholozänen Insulationsmaximums. - *Ber.-Rep. Geol. Paläont. Inst. Univ. Kiel*, 73, 156 pp.
- Pflaumann et al., *Paleoceanography*, in prep.

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