

Core no. 16396-1 G.C. N 61° 52.33' W 11° 14.54' : 1145 m b.s.l.

Age control:

Date: 9/2000

- *N. pachyderma* sin. <sup>18</sup>O record from K.Winn/F.Werner (unpublished data), Sarnthein et al. (1995)
- AMS <sup>14</sup>C dating on *G. bulloides* and *N. pachyderma* sin. (Weinelt et al., in prep.).

Core fit :

- with neighbour core 16397-2, based on <sup>18</sup>O record and AMS <sup>14</sup>C dating
- 510 cm in core 16396-1 = 80 cm in core 16397-2

Surface sediment age :

- 

Age/depth correlation :

Orig. depth	<sup>14</sup> C age	Error ±	Calendar years		Sed.rate	Original interval/ material/ $\delta^{18}\text{O}$ stratigraphy	Core no.	Remarks
[cm]	[ky BP]		[ka]		[cm/ky]			
170	11.23	80	13.16	a)	- . -	<i>G. bulloides</i>	- 1	
180	13.97	80	16.76	a)	2.8	<i>N. pachyderma</i> sin.	- 1	
198	15.08	150	18.00	a)	- . -	<i>N. pachyderma</i> sin.	- 1	ignored
198			18.10		13.4	Base H1	- 1	
290	15.73	100	18.78	a)	135.3	<i>N. pachyderma</i> sin.	- 1	
430	16.83	90	20.05	a)	110.2	<i>N. pachyderma</i> sin.	- 1	
510			21.12		74.8	tuned with core 16397		
530	17.40	90	21.29	a)	117.6	<i>N. pachyderma</i> sin.	- 1	

a) Calendar years converted from <sup>14</sup>C years using INTCAL 98.

Remarks :

- None

Original references:

- Weinelt et al., in prep.
- Sarnthein, M., Jansen, E., Weinelt, M., Arnold, M., Duplessy, J.-C., Erlenkeuser, H., Flatøy, A., Johannessen, G., Johannessen, T., Jung, S., Koc, N., 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.
- Werner, F. (1990): Bericht über Reise Nr. 158 des F. S. POSEIDON in das Seegebiet um Island. - Ber.-Rep. Geol. Paläont. Inst. Univ. Kiel, 38, 17 pp.

LGM time slice:

- GLAMAP: 198-540 cm orig. depth in core (-1)
- EPILOG: 320-540 cm orig. depth in core (-1)

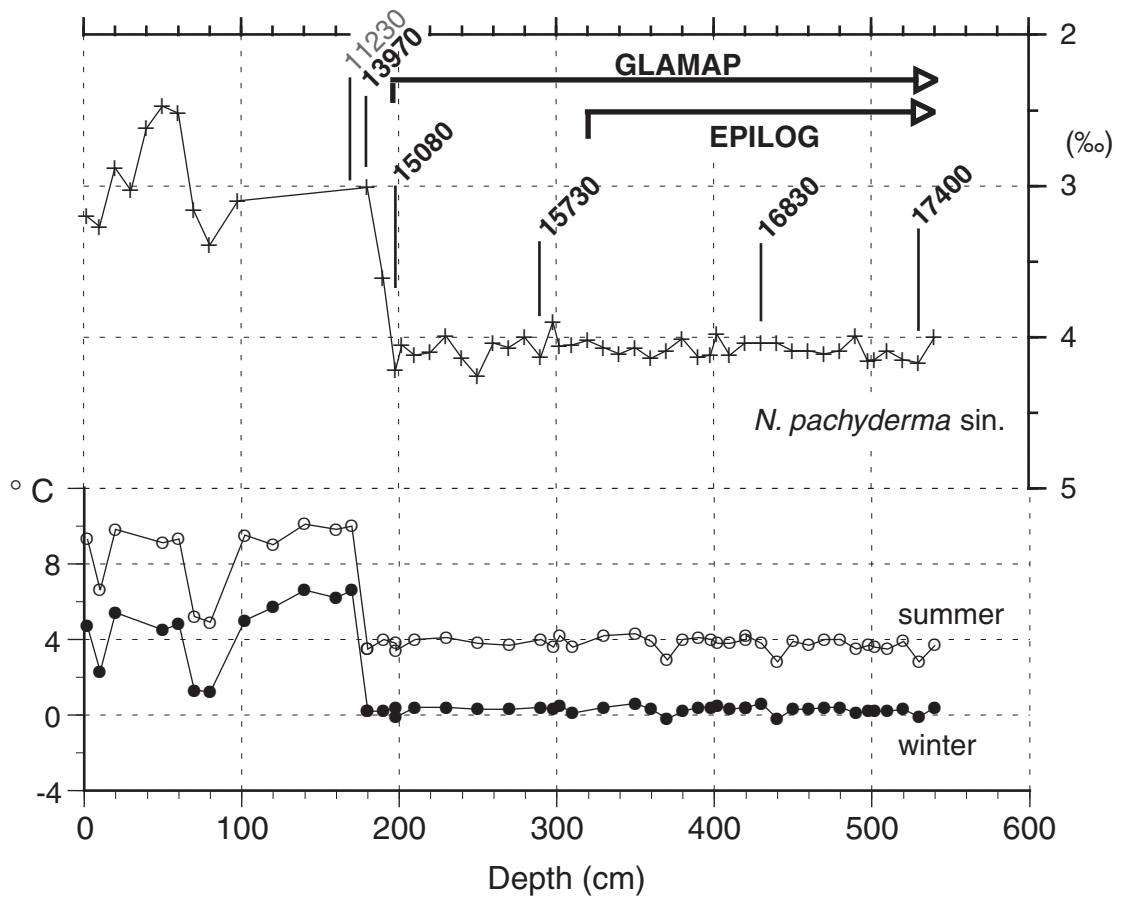
LGM foraminifera counts: Vogelsang (EV), Weinelt (MW)

- GLAMAP: (in core -1) 198, 198, 210, 230, 250, 270, 290, 298, 302, 310, 330, 350, 360, 370, 380, 390, 398, 402, 410, 420, 420, 430, 440, 450, 460, 470, 480, 490, 498, 502, 510, 520, 530, 540 cm orig. depth.
- EPILOG: (in core -1) 330, 350, 360, 370, 380, 390, 398, 402, 410, 420, 420, 430, 440, 450, 460, 470, 480, 490, 498, 502, 510, 520, 530, 540 cm orig. depth.

References for faunal analysis:

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

# 16396-1



16465: *N. pachyderma sin.*

18394: *G. bulloides*