Core no. 17045-2 B.C. N 52° 26.94' W 16°39.36': 3653 m b.s.l.
17045-3 G.C. N 52° 25.50' W 16°39.92': 3663 m b.s.l.

Age control: Date: 1995

- *C. wuellerstorfi* and various planktonic $\delta^{18}O$ records (Winn et al., 1991).
- AMS ^{14}C dating on *N. pachyderma* sin. and *G. bulloides* , unpublished data measured in Gif-sur-Yvette (GsY; Duplessy/Sarnthein/Winn) and at Leibniz Labor Kiel (KI; Trauth, 1995).

Core fit :

- 0 cm in core -2 = 0 cm in core -3, based on best fit of $\delta^{18}O$ records of *C. wuellerstorfi, G. inflata, G. bulloides* and *N. pachyderma* (dextral).

Surface sediment age :

- Zero, inferred from undisturbed sediment surface in B.C. -2.

Age/depth correlation :

Comp. depth	^{14}C age	Error ±	Calendar years		Sed.rate	Original interval/ material/	Core no.	Remarks
[cm]	[ky BP]		[ka]		[cm/ky]	$\delta^{18}O$ stratigraphy		
0.0			0.0					
1.0	2.16	70	2.24			*G. bulloides*	- 2	KI
2.0	2.34	90	2.34	a)	- . -	*G. bulloides*	- 2	Gif, ignored, mixed layer
2.5	1.89	60	1.88			*G. bulloides*	- 2	KI
5	2.66	80	2.8			*G. bulloides*	- 2	KI
7.5	3.13	80	3.39			*G. bulloides*	- 2	KI
10	2.92	70	3.16			*G. bulloides*	- 2	KI
12.5	3.88	70	4.39			*G. bulloides*	- 2	KI
15	4.51	70	5.25			*G. bulloides*	- 2	KI
20.0	6.75	130	7.05	b)	2.84	*G. bulloides*	- 3	Gif
26.0	5.64	130	6.40	c)	- . -	*G. bulloides*	- 3	Gif; reworked!
30.0	7.64	100	8.45	b)	7.14	*G. bulloides*	- 3	Gif
40.0	9.09	140	9.79	d)	7.46	*G. bulloides*	- 3	Gif
46.5	9.1		9.8	d)	- . -	AMS ^{14}C analogue	- 3	ignored
48.5	~10.35		~12.3	d)	3.59	hiatus	- 3	Mn-rich layer, colorless volcanic glass
50.0	12.00	130	14.0	d)	- . -	*G. bulloides*	- 3	Gif
60.0	12.43	120	14.43	d)	23.26	*G. bulloides*	- 3	Gif
77.5	13.6		17.1	d)	6.55	AMS ^{14}C analogue	- 3	
80.0	15.32	150	18.82	d)	- . -	*N. pachyderma* (l)	- 3	Gif; ignored, upcore bioturbation
80.0	14.8		18.3	d)	2.08	AMS ^{14}C analogue	- 3	
84.0	15.79	160	19.29	d)	4.04	*N. pachyderma* (l)	- 3	Gif
90.0	16.20	200	19.70	d)	14.63	*N. pachyderma* (l)	- 3	Gif
94.0	16.55	180	20.05	d)	11.43	*N. pachyderma* (l)	- 3	Gif
99.0	17.11	170	20.61	d)	8.93	*N. pachyderma* (l)	- 3	Gif
116.0	18.49	200	21.99	d)	12.32	*N. pachyderma* (l)	- 3	Gif
120.0	19.00	200	22.50	d)	7.84	*N. pachyderma* (l)	- 3	Gif
130.0	20.05	230	23.55	d)	9.52	*N. pachyderma* (l)	- 3	Gif
180.0	26.0		29.5	d)	8.40	AMS ^{14}C analogue	- 3	

a) corrected after Stuiver & Becker (1986).
b) corrected after Linick et al. (1986).
c) corrected after Pearson et al. (1986).
d) corrected after Bard et al. (1990).

Remarks :

- Corg and dry bulk density data (Sarnthein et al., 1989; K. Winn, unpublished).
- Volcanic glass shards (colorless, rhyolite variety: Vedde ash) sporadic at 48 cm, decreasing towards 40 cm (rare). Black Mn-rich tubes (Todorokite) frequent in the >200 µm size fraction at 48 cm, much lesser at 46.5 cm and 50 cm.

Original references:

- Trauth, M. (1995): Bioturbate Signalverzerrung hochauflösender paläozeanographischer Zeitreihen. - Ber.-Rep. Geol. Paläont. Inst. Univ. Kiel, 74, pp. 167.
- Sarnthein, M., Winn, K., Jung, S.J.A., Duplessy, J.-A., Labeyrie, L., Erlenkeuser, H. & Ganssen, G. (1994): Changes in east Atlantic deepwater circulation over the last 30,000 years: Eight time slice reconstructions.- Paleoceanography, 9, 209-267.
- Winn, K., Sarnthein, M. & Erlenkeuser, H. (1991): $\delta^{18}O$ stratigraphy and chronology of Kiel sediment cores from the East Atlantic.- Ber.-Rep. Geol. Paläont. Inst. Univ. Kiel, 45, 99 pp.

LGM time slice:

- GLAMAP: 80-110 cm comp. depth = 80-110 cm orig. depth in core (-3)
- EPILOG: 85-120 cm comp. depth = 85-120 cm orig. depth in core (-3)

LGM foraminifera counts: Schulz (HS), Pflaumann (UP)

- GLAMAP: (in core -3) 80, 82, 95 cm orig. depth.
- EPILOG: (in core -3) 95 cm orig. depth.

References for faunal analysis:

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

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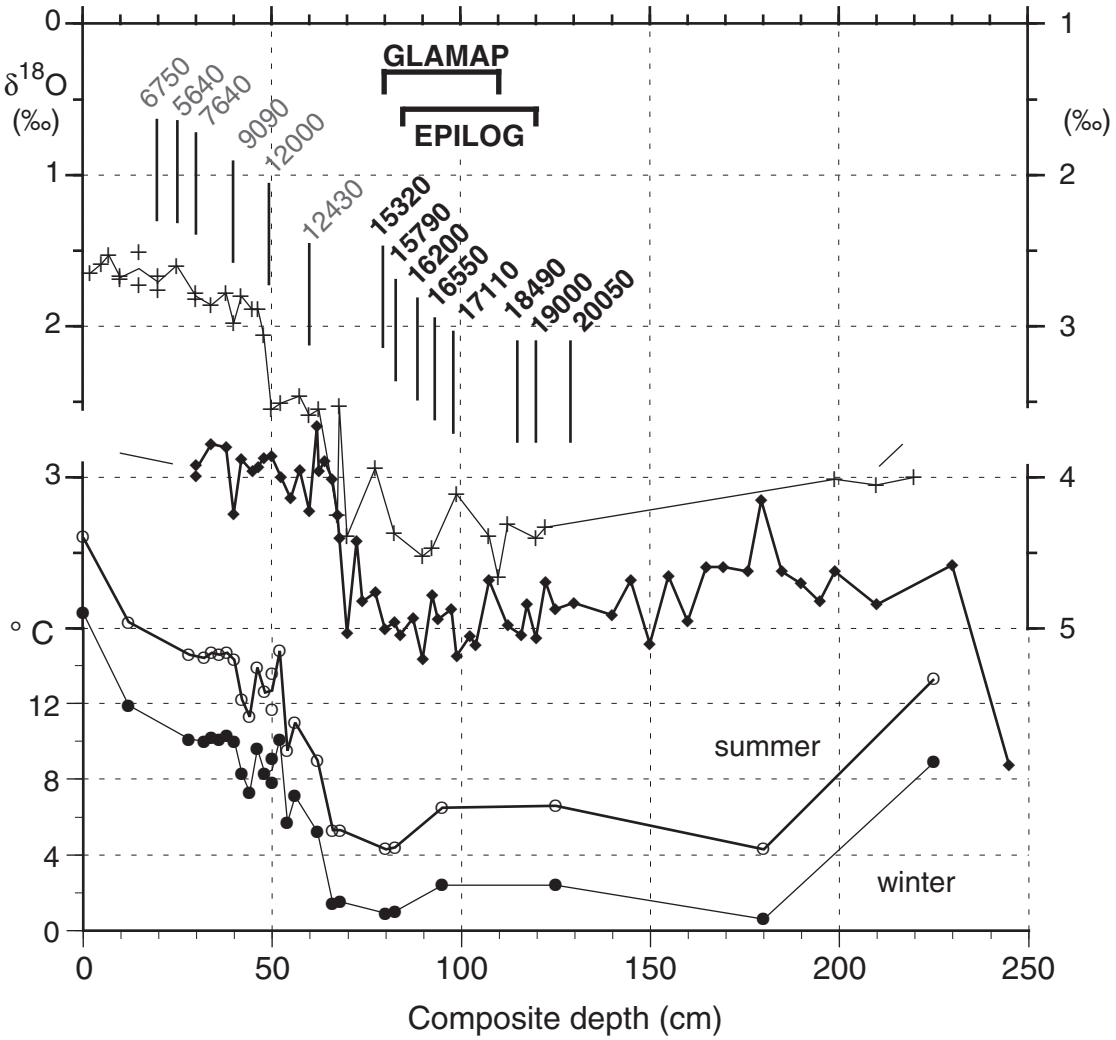

16465: *N. pachyderma* sin.

18394: *G. bulloides*