

Core no. 16415-1 B.C. N 9° 34.0' W 19° 06.4': 3841 m b.s.l.
 16415-2 G.C. N 9° 34.0' W 19° 05.7': 3851 m b.s.l.

Age control:

Date: 24/02/1992

- *C. wuellerstorfi* ¹⁸O record in -1 (Winn et al., 1991), in -2 (Brassel et al., 1985).
- *G. sacculifer* ¹⁸O record in -1 and -2 (Vogelsang, 1985; Brassel et al., 1985). *G. ruber* (white) ¹⁸O record in -1 and -2 (Winn et al., 1991; Sarnthein et al., 1994; Brassel et al., 1985).
- ¹⁴C ages of carbonate coarse fraction in -1 (Vogelsang, 1985).
- AMS ¹⁴C analogue stratigraphy.

Core fit :

- 0 cm in core -1 = 0 cm in core -2, based on *G. sacculifer* and *G. ruber* ¹⁸O records (see also Pflaumann, 1986).

Surface sediment age :

- Zero, inferred from undisturbed sediment surface in B.C. -1.

Age/depth correlation :

Comp. depth	¹⁴ C age	Error ±	Calendar years		Sed.rate	Original interval/ material/ δ ¹⁸ O stratigraphy	Core no.	Remarks
[cm]	[ky BP]		[ka]		[cm/ky]			
0.0			0.0		- . -		- 1	
4.0	3.97	100	4.43	a)	- . -	2-6 cm, carbonate >125µm	- 1	ignored, mixed layer
17.0	8.42	140	9.32	a)	1.82	15-19 cm carbonate >125µm	- 1	
18.0	9.1		9.8	b)	(1.84)	AMS ¹⁴ C analogue	- 1	poorly defined
24.0			11.6	b)	2.27	Top Younger Dryas Gisp2	- 1	
36.0	14.8		18.3	b)	2.03	AMS ¹⁴ C analogue	- 1	
51.0	20.0		23.5	b)	?1.34	AMS ¹⁴ C analogue	- 1	
~51.0						top of hiatus!		

a) see Winn et al. (1991).

b) corrected after Bard et al. (1990).

Remarks :

- Corg (Vogelsang, 1985).
- Dry bulk density data (Kassens, 1985).

Original references:

- 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): ¹⁸O stratigraphy and chronology of Kiel sediment cores from the East Atlantic.- *Ber.-Rep. Geol. Paläont. Inst. Univ. Kiel*, 45, 99 pp.
- Brassel, S.C., Brereton, R.G., Eglington, G., Grimalt, G., Liebezeit, G., Marlowe, I.T., Pflaumann, U. & Sarnthein, M. (1985): Paleoclimatic signals recognised by chemometric treatment of molecular stratigraphic data.- *Org. Geochem.*, 10, 649-660.
- Vogelsang, E. (1985): Hochaufösende Zeitreihen der Termination I aus Sedimenten des Äquatorialen Ostatlantiks (der Übergang vom letzten Glazial zum jetzigen Interglazial).- Unpublished Diplomarbeit, Univ. Kiel, 86 pp.

LGM time slice:

- GLAMAP: 36-42 cm orig. depth in core (-2)
- EPILOG: 38-46.5 cm orig. depth in core (-2)

LGM foraminifera counts: Pflaumann (UP)

- GLAMAP: (in core -2) 35 cm orig. depth.
- EPILOG: (in core -2) 45 cm orig. depth.

References for faunal analysis:

- Pflaumann, U. (1986): Sea surface temperatures during the last 750,000 years in the eastern equatorial Atlantic. - "Meteor" *Forsch. Ergebn. C*, 40, 137-161.

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