

Core no. 12345-4 B.C. N 15° 28.80' W 17° 21.60': 966 m b.s.l.
12345-5 K.C. 945 m b.s.l.

Age control:

Date: 30/12/1992

- *C. wuellerstorfi* and *G. inflata* ¹⁸O records from Zahn-Knoll (1986), Winn et al., (1991).
- ¹⁴C ages of carbonate coarse fraction (Erlenkeuser, unpubl. data)
- AMS ¹⁴C analogue stratigraphy.

Core fit :

- No clear overlap between 12345-4 and -5. 0 cm = 0 cm ?

Surface sediment age :

- Zero, assuming no sediment loss at top of B.C. -4.

Age/depth correlation :

Orig. depth	¹⁴ C age	Error ±	Calendar years		Sed.rate a)	Original interval/ material/	Core no.	Remarks
[cm]	[ky BP]		[ka]		[cm/ky]	^{δ18} O stratigraphy		
0			0				-4	
125	8.60	145	9.5	c)	-.-	115-135 cm carb. >125µm	-5	ignored, b)
185	9.1		9.8	d)	18.88	AMS ¹⁴ C analogue	-5	
225.5	12.18	280	14.18	d)	-.-	216-235 cm carb. >125µm	-5	ignored, b)
332.25	13.33	490	16.83	d)	-.-	324.5-340 cm carb. >125µm	-5	ignored, b)
359	13.6		17.1	d)	23.84	AMS ¹⁴ C analogue	-5	
413	14.8		18.3	d)	45	AMS ¹⁴ C analogue	-5	
429.25	16.27	255	19.77	d)	-.-	426-432.5 cm carb. >125µm	-5	ignored, b)

a) proximity to mouth of Senegal river resulted in highly discontinuous sedimentation rates.

b) age too old because of reworked grains, Unequivocal ¹⁸O stratigraphy.

c) corrected after Stuiver et al. (1991).

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

Remarks :

- C_{org}, CO₂/Alk, N_{total} data from Hartmann et al. (1976).
- Dry bulk density from Müller & Suess (1979)

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.
- Zahn-Knoll, R. (1986): Spätquartäre Entwicklung von Küstenauftrieb und Tiefenwasserzirkulation im Nordost-Atlantik. Rekonstruktion anhand stabiler Isotope kalkschaliger Foraminiferen.- *Diss. Univ. Kiel*, 111 pp.

LGM time slice:

- GLAMAP: 413-475 cm orig. depth in core (-5)
- EPILOG: 427-494 cm orig. depth in core (-5)

LGM foraminifera counts: Pflaumann (UP)

- GLAMAP: (in core -5) 420, 430, 440, 450, 460, 470 cm orig. depth.
- EPILOG: (in core -5) 430, 440, 450, 460, 470, 480, 490 cm orig. depth.

References for faunal analysis:

- Pflaumann, U. (1975): Late Quaternary stratigraphy based on planktonic foraminifera off Senegal. - *"Meteor" Forsch. Ergebn., C*, 23, 1-46.

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