

Core no. 15669-1 G.C. N 34° 53.5' W 7° 48.9': 2022 m b.s.l.

Age control: Date: 28/06/1991

- *C. wuellerstorfi* ¹⁸O record from Zahn-Knoll, 1986.
- ¹⁴C ages on carbonate coarse fraction (Zahn et al., 1987).
- AMS ¹⁴C analogue stratigraphy.

Core fit :

- None

Surface sediment age :

- 1.9 ka, assuming 6 cm loss of surface sediment, per analogy with neighbouring cores.

Age/depth correlation :

Orig. depth [cm]	¹⁴ C age [ky BP]	Error ±	Calendar years [ka]		Sed.rate [cm/ky]	Original interval/ material/ ^δ ¹⁸ O stratigraphy	Core no.	Remarks
0			1.9		-.-		-1	
15	4.46	50	5.05	a)	-.-	10- 20 cm carbonate >125µm	-1	ignored b)
25	9.1		9.8	c)	3.21	AMS ¹⁴ C analogue	-1	
45	12.37	150	14.37	c)	4.38	40- 50 cm carbonate >125µm	-1	
60	13.6		17.1	c)	-.-	AMS ¹⁴ C analogue	-1	ignored
65	14.8		18.3	c)	5.09	AMS ¹⁴ C analogue	-1	
78	16.63	330	20.13	c)	-.-	73- 83 cm carbonate >125µm	-1	good, but ignored
125	22.82	630	26.32	c)	-.-	120-130 cm carbonate >125µm	-1	ignored
135	26		29.5	c)	6.25	AMS ¹⁴ C analogue	-1	

a) see Winn et al. (1991).

b) near surface bioturbation.

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

Remarks:

- None

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, R., Sarnthein, M. & Erlenkeuser, H. (1987): Benthic isotope evidence for changes of the Mediterranean outflow during the Late Quaternary.- *Paleoceanography*, 2, 543-559.
- 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: 65-85 cm orig. depth in core (-1)
- EPILOG: 69-91 cm orig. depth in core (-1)

LGM foraminifera counts: Pflaumann (UP)

- GLAMAP: (in core -1) 65, 70, 75, 80, 85 cm orig. depth.
- EPILOG: (in core -1) 70, 75, 80, 85, 90 cm orig. depth.

References for faunal analysis:

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

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