

Core no. 13519 G.C. N 5° 39.5' W 19°51.0': 2862 m b.s.l.

Age control:

Date: 19/01/1993

- *C. wuellerstorfi*, *U. peregrina* group and *G. sacculifer* ¹⁸O records from Sarnthein et al. (1984), Zahn et al. (1987), suppl. by Winn et al. 1991.
- AMS ¹⁴C analogue stratigraphy.

Core fit :

- None.

Surface sediment age :

- Zero, assuming no sediment loss at top of gravity core 13519-1.

Age/depth correlation :

Orig. depth	¹⁴ C age	Calendar years		Sed.rate	Original interval/ material/ δ ¹⁸ O stratigraphy	Remarks
[cm]	[ky BP]	[ka]		[cm/ky]		
0		0				
13.5	9.1	9.8	a)	1.38	AMS ¹⁴ C analogue	
24.75	14.8	18.3	a)	1.32	AMS ¹⁴ C analogue	
33.5	20	(23.5)	a)		AMS ¹⁴ C analogue	ignored
53.5	26	29.5	a)	2.57	AMS ¹⁴ C analogue	

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

Remarks :

- Corg data from Müller et al. (1983).
- Dry bulk density different from Müller and Suess (1979). Values in data set are based on values in neighbouring cores 16453 to 16458.

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.
- Sarnthein, M., Erlenkeuser, H., v. Grafenstein, R. & Schröder, C. (1984): Stable isotope stratigraphy for the last 750,000 years.- "Meteor" core 13519 from the eastern equatorial Atlantic.- *Meteor Forsch. Ergebn.*, C 38, 9-24.

LGM time slice:

- GLAMAP: 24.75-32.5 cm orig. depth.
- EPILOG: 26.5-35 cm orig. depth.

LGM foraminifera counts: Pflaumann (UP)

- GLAMAP: (in core -1) 27, 30 cm orig. depth.
- EPILOG: (in core -1) 27, 30, 35 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.

13519-1

