

Core no. 16772-1 B.C. S 1° 20.4' W 11° 58.4': 3911 m b.s.l.
 16772-2 P.C. and T.W. S 1° 21.0' W 11° 57.7': 3913 m b.s.l.

Age control: Date: 09/06/1993

- *C. wuellerstorfi* and *G. ruber* ¹⁸O records from -1, -2 and trigger weight (Winn et al.1991).
- *G. sacculifer* ¹⁸O record (-1 and trigger weight, Winn et al., 1991; -2, Kähler, 1990).
- AMS ¹⁴C analogue stratigraphy.

Core fit :

- 0 cm in box core -1 = 0 cm in trigger weight -2P.
- 27.5 cm in core -1 = 0 cm in core -2, based on fit of ¹⁸O records.

Surface sediment age :

- Zero, inferred from undisturbed sediment surface in B.C. 16772-1.
- Comparison of planktonic and benthic ¹⁸O and ¹³C records shows that the trigger weight yields the same results as the box core.
- Top 9 cm of piston core 16772-2 are disturbed and show Holocene ¹⁸O and ¹³C levels in planktonic and benthic foraminifers.

Age/depth correlation :

Comp. depth	Calendar years		Sed.rate	Original interval/ material/	Core no.	Remarks
[cm]	[ka]		[cm/ky]	^{δ18} O stratigraphy		
0	0		- . -			
33.75	9.8	a)	3.4	AMS ¹⁴ C analogue	- 1	
47.5	18.3	a)	1.8	AMS ¹⁴ C analogue	- 2	
104.1	29.5	a)	5.1	AMS ¹⁴ C analogue	- 2	

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

Remarks :

- Core break at 37.5 cm comp. depth results in artificial hiatus of unknown length between core -1 and -2.
- Corg data (L. Westerhausen/K. Winn, unpublished).
- Sediment physical properties (K. Winn, unpublished).

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.
- Kähler, G. (1990): Oberflächentemperatur im Äquatorialen Atlantik während der letzten 330 000 Jahre (Meteor-Kern 16772).- Unpublished Diplomarbeit, Univ. Kiel, 102 pp.

LGM time slice:

- GLAMAP: 47.5-64 cm comp. depth = 20-36.5 cm orig. depth in core (-2)
- EPILOG: 51-69 cm comp. depth = 23.5-41.5 cm orig. depth in core (-2)

LGM foraminifera counts: Kähler (GK)

- GLAMAP: (in core -2) 20, 30 cm orig. depth.
- EPILOG: (in core -2) 30, 40 cm orig. depth.

References for faunal analysis:

- Kähler, G. (1990): Oberflächentemperatur im Äquatorialen Atlantik während der letzten 330 000 Jahre (Meteor-Kern 16772).- Unpublished Diplomarbeit, Univ. Kiel, pp. 102.

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