

Core no. 13521 G.C.      N 3°01.2'      W 22° 01.9':      4504 m b.s.l.

Age control:      Date: 1991

- *C. wuellerstorfi* <sup>18</sup>O record (Winn et al., 1991), *G. sacculifer* data from Tiews (1985).
- AMS <sup>14</sup>C analogue stratigraphy.

Core fit :

- None.

Surface sediment age :

- 6.0 ka, based on linear extrapolation of the sedimentation rate during Termination I.

Age/depth correlation :

Orig. depth	<sup>14</sup> C age	Calendar years		Sed.rate	Original interval/ material/ δ <sup>18</sup> O stratigraphy	Remarks
[cm]	[ky BP]	[ka]		[cm/ky]		
0	-.-	6				
10.5	9.1	9.8	a)	2.79	AMS <sup>14</sup> C analogue	
15.5	9.8	11.5	a)	2.94	AMS <sup>14</sup> C age of <sup>18</sup> C minimum of <i>C. wuellerstorfi</i> in EN120-1 and V23-81.	
34.5	14.8	18.3	a)	2.79	AMS <sup>14</sup> C analogue	
63	26	29.5	a)	2.54	<sup>18</sup> O event 3 (age is problematic!)	<i>G. sacculifer</i>

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

b) <sup>18</sup>O event stratigraphy after Martinson et al. (1987).

Remarks :

- Corg data ( M. Hartmann, unpublished).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): <sup>18</sup>O stratigraphy and chronology of Kiel sediment cores from the East Atlantic.- *Ber.-Rep. Geol. Paläont. Inst. Univ. Kiel*, 45, 99 pp.
- Tiews, C. C., (1985): Quartäre Paläoklimatologie im Äquatorial-Atlantik. *Meteor-Kern 13521, Sierra Leone Rise*. - Unpublished Diplomarbeit, Univ. Kiel, 69 pp.

LGM time slice:

- GLAMAP: 34.5-42 cm orig. depth.
- EPILOG: 36-44 cm orig. depth.

LGM foraminifera counts: Pflaumann (UP)

- GLAMAP: (in core -1) 36, 39, 42 cm orig. depth.
- EPILOG: (in core -1) 36, 39, 42 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.

# 13521-1

