

Core no. RC 13-229 S 25° 30' E 11° 18': 4191 m b.s.l.

Age control: Date: 1991

- *G. sacculifer*, *G. inflata*, *Uvigerina*, and *C. wuellerstorfi* ¹⁸O records in Shackleton (1977), CLIMAP (1984), Oppo & Fairbanks (1987), Curry et al. (1988).
- AMS ¹⁴C analogue stratigraphy.

Core fit :

- None

Surface sediment age :

- Not clear. About 5400 years, based on extrapolation of Termination I sedimentation rates.

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		5.4				extrapolated
14.5	9.1	9.8	a)	3.3	AMS ¹⁴ C analogue	b)
45	14.8	18.3	a)	3.6	AMS ¹⁴ C analogue	
90	26	29.5	a)	4.0	AMS ¹⁴ C analogue	b)

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

b) Alternative stratigraphy after *Uvigerina*, 9.1 ka at 30 cm (not supported by ¹³C values).

Remarks:

- Stratigraphy is different from Curry et al. (1988).
- Medium sedimentation rates allow for high resolution across Termination I.
- Core from deeper waters of the Cape Basin (AABW) produces ""cold"" ¹⁸O signal?"

Original references:

- Sarnthein, M., Winn, K., Jung, S.J.A., Duplessy, J.-C., 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.
- Curry, W.B., Duplessy, J.C., Labeyrie, L.D. & Shackleton, N.J. (1988): Changes in the distribution of ¹³C of deep water CO₂ between the last glaciations and the Holocene.- *Paleoceanography*, 3, 317-341.
- Oppo, D. & Fairbanks, R.G. (1987): Variability in the deep and intermediate water circulation of the Atlantic Ocean during the past 25,000 years: Northern hemisphere modulation of the southern ocean.- *Earth Planet. Sci. Lett.*, 86, 1-15.
- CLIMAP Project Members (1984): The last interglacial ocean. - *Quat. Res.*, 21, 123-224.
- Shackleton, N.J. (1977): Carbon¹³ in *Uvigerina*: Tropical rainforest history and the equatorial Pacific carbonate dissolution cycle. In: N. R. Andersen, & A. Malahoff (eds.) *The fate of fossil fuel in the oceans.* (Plenum Press, New York), 401-447, .

LGM time slice:

- GLAMAP: 45-58 cm orig. depth
- EPILOG: 48-62 cm orig. depth

LGM foraminifera counts: Pflaumann (UP)

- GLAMAP: 45, 52, 55, 58 cm orig. depth
- EPILOG: 52, 55, 58, 60 cm orig. depth

References for faunal analysis:

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

RC 13-229

