Core no. 15627-3 P.C. N 29° 10.0' W 12° 05.2': 1024 m b.s.l.

Age control: Date: 19/01/1993

- *C. wuellerstorfi* $\delta^{18}O$ record from Zahn-Knoll (1986), Winn et al. (1991) and Sarnthein et al. (1994)
- AMS ^{14}C analogue stratigraphy.

Core fit :

- None

Surface sediment age :

- About 6.0 ka, based on extrapolation of sedimentation rate of ca. 2 cm/ka.
- Piston core suggests about 10 cm sediment loss.

Age/depth correlation :

Orig. depth	^{14}C age	Calendar years		Sed.rate	Original interval/ material/	Remarks
[cm]	[ky BP]	[ka]		[cm/ky]	$\delta^{18}O$ stratigraphy	
0		6				
7.5	9.1	9.8	a)	?2.0	AMS ^{14}C analogue	$\delta^{18}O$ event based on 1.9‰ LGM-to-Holocene shift and on equivalent $\delta^{18}O$ levels at St. 5.5
?	Hiatus	-			no $\delta^{18}O$ plateau)	
17.5	14.8	18.3	a)	1.18	AMS ^{14}C analogue	
38.5 ?	20	23.5	a)	-.-		
66.5	26	29.5	a)	4.37	AMS ^{14}C analogue	

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

Remarks :

- Corg data from Müller et al. (1983).
- Dry bulk densities (U. Pflaumann, unpublished).
- Stratigraphy is supported by planktonic $\delta^{18}O$ records (Zahn-Knoll, 1986; Winn et al., 1991).

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): $\delta^{18}O$ stratigraphy and chronology of Kiel sediment cores from the East Atlantic.- Ber.-Rep. Geol. Paläont. Inst. Univ. Kiel, 45, 99 pp.
- 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:

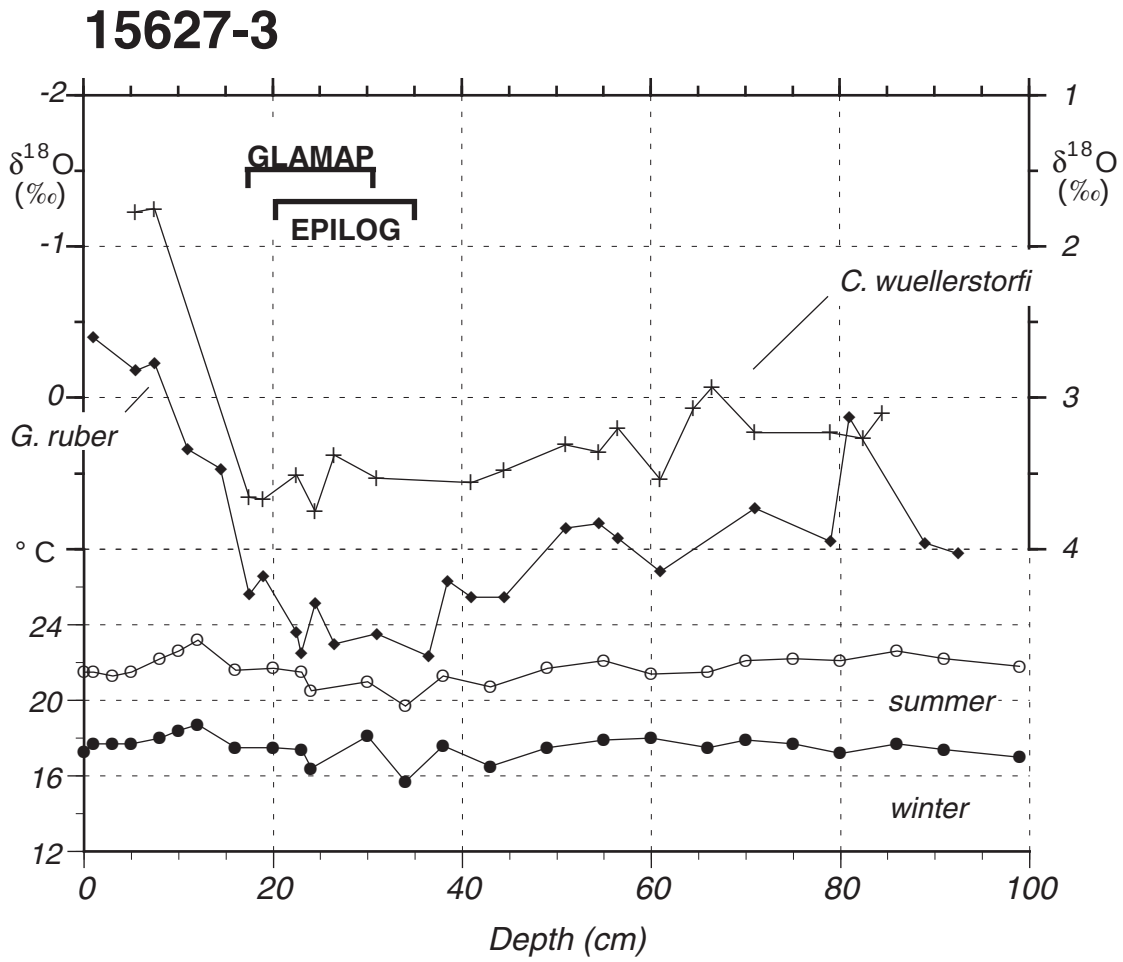
- GLAMAP: 17.5-31 cm orig. depth in core (-3)
- EPILOG: 20.5-35 cm orig. depth in core (-3)

LGM foraminifera counts: Pflaumann (UP)

- GLAMAP: (in core -3) 20, 23, 24, 30 cm orig. depth.
- EPILOG: (in core -3) 20, 23, 24, 30, 34 cm orig. depth.

References for faunal analysis:

- Pflaumann et al., Paleoceanography, in prep.


15627-3
GLAMAP
EPILOG
δ18O (‰)
δ18O (‰)
C. wuellerstorfi
G. ruber
° C
summer
winter
Depth (cm)
-2
-1
0
24
20
16
12
1
2
3
4
0
20
40
60
80
100