

Core no. 15637-1 P.C. N 27° 00.5' W 18° 59.3': 3849 m b.s.l.

Age control: Date: 05/1998

- *C. wuellerstorfi* <sup>18</sup>O record (Zahn-Knoll, 1986).
- AMS <sup>14</sup>C dating and age model (Kiefer, 1998).

Core fit :

- None

Surface sediment age :

- > 5 ka, based on <sup>14</sup>C ages.

Age/depth correlation :

Orig. depth [cm]	<sup>14</sup> C age [ky BP]	Error ±	Calendar years [ka]		Sed.rate [cm/ky]	Original interval/ material/ <sup>δ</sup> <sup>18</sup> O stratigraphy	Core no.	Remarks
0.75	5.12	30	5.90	a)		0-1.5 cm	-1	<i>G. inflata</i>
3.0	5.23	120	5.96	a)	37.5	2.5-3.5 cm	-1	<i>G. inflata</i>
7.5	6.05	50	6.90	a)	4.8	7.0-8.0 cm	-1	<i>G. inflata</i>
12.0	6.36	40	7.23	a)	13.6	11.5-12.5 cm	-1	<i>G. inflata</i>
21.5	9.09	50	10.02	b)	3.4	21.0-22.0 cm	-1	<i>G. inflata</i>
31.0	10.06	60	11.30	b)	7.4	30.5-31.5 cm	-1	<i>G. inflata</i>
36.0	11.46	50	12.82	c)	3.3	35.5-36.5 cm	-1	<i>G. inflata</i>
43.0	12.27	60	14.94	d)	3.3	42.5-43.5 cm	-1	<i>G. inflata</i>
46.0	13.15	70	15.38	c)	6.8	45.5-46.5 cm	-1	<i>G. inflata</i>
50.0	14.89	90	15.97	d)	6.8	49.5-50.5 cm	-1	<i>G. inflata</i>
54.0	16.68	90	17.90	d)	2.1	53.5-54.5 cm	-1	<i>G. inflata</i>
55.5	17.97	90	20.06	c)	0.7	55.0-56.0 cm	-1	<i>G. bulloides</i>
56.9			22.08	d)	0.7			
58.0	19.88	190	22.73	c)	1.7	57.5-58.5 cm	-1	<i>G. inflata</i>
58.5	17.99	180	23.02	c)	1.7	57.5-59.5 cm	-1	<i>G. bulloides</i>
65.5	23.25	120	27.15	c)	1.7	65.0-66.0 cm	-1	<i>G. inflata</i>
65.5	23.84	150	27.15	c)	1.7	65.0-66.0 cm	-1	<i>G. bulloides</i>
72	24.37	140	29.64	c)	2.6	71.5-72.5 cm	-1	<i>G. bulloides</i>
80	27.89	170	31.96	d)	3.4	80.5-81.5 cm	-1	<i>G. bulloides</i>
80	28.68	+700/ -640	31.96	d)	3.4	80.5-81.5 cm	-1	<i>G. inflata</i>
88	35.52	+1100/ -960	37.11	d)	1.6	87.5-88.5 cm	-1	<i>G. inflata</i>
92	33.27	+1140/ -1000	38.04	c)	4.3	91.5-92.5 cm	-1	<i>G. inflata</i>
96	34.3	+570/ -540	39.37	c)	3.0	95.5-96.5 cm	-1	<i>G. inflata</i>

- a) base for calendar age: Stuiver & Pearson (1993).  
 b) base for calendar age: Kromer & Becker (1993).  
 c) base for calendar age: linear interpretation.  
 d) tuned to 15612.

Remarks :

- Corg data (K. Winn, unpublished).
- Dry bulk density data (U. Pflaumann/K. Winn, unpublished).

Original references:

- Kiefer, Th. (1998): Produktivität und Temperaturen im subtropischen Nordatlantik: Zyklische und abrupte Veränderungen im späten Quartär. - Ber.-Rep. Geol. Paläont. Inst. Univ. Kiel, 90, 127 pp.
- 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.- Paleoclimatology, 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.
- 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: 50-55.5 cm orig. depth in core (-1)
- EPILOG: 51-57 cm orig. depth in core (-1)

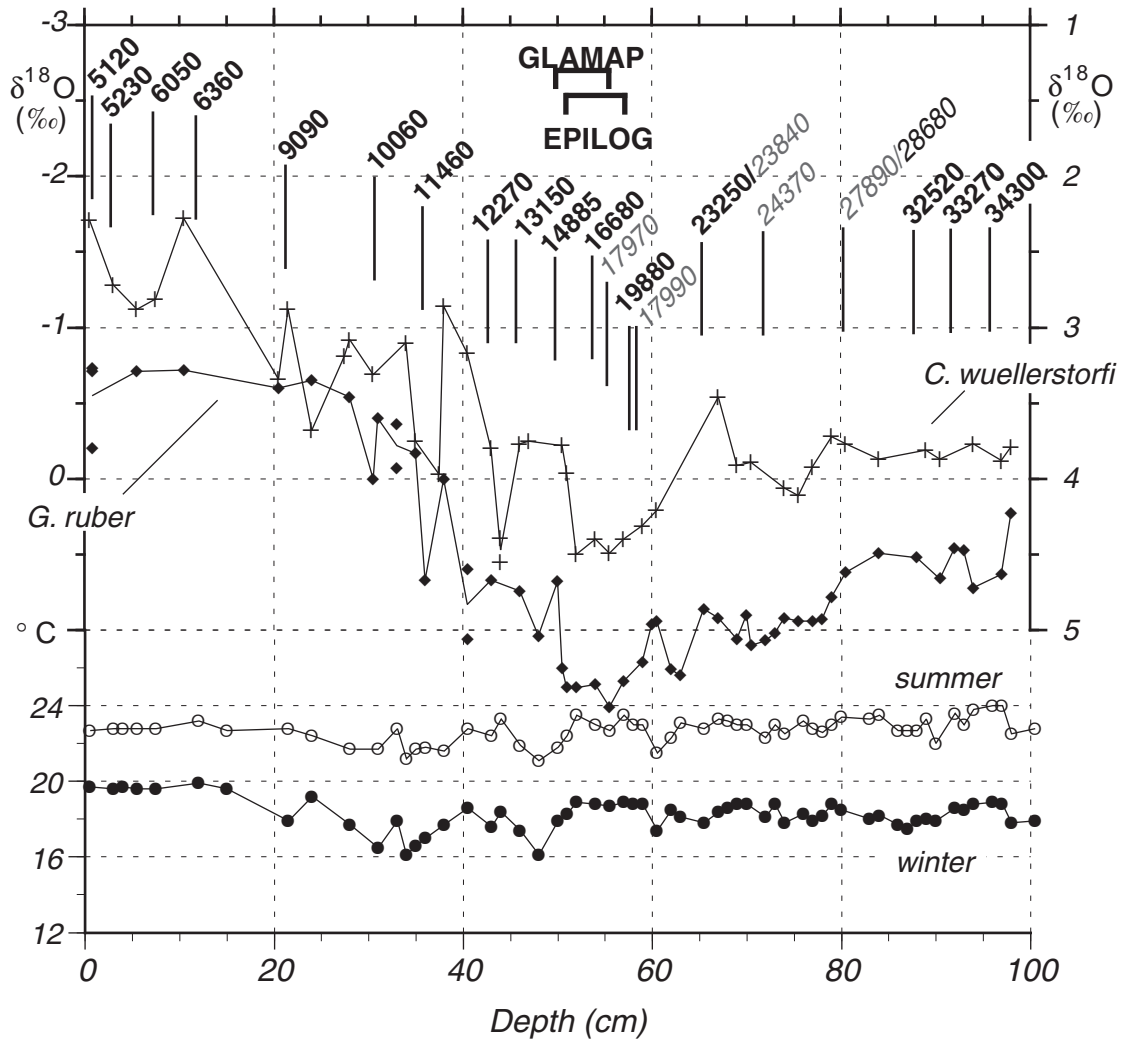
LGM foraminifera counts: Pflaumann (UP), Kiefer (TK)

- GLAMAP: (in core -1) 50, 51, 52, 54, 55.5 cm orig. depth.
- EPILOG: (in core -1) 51, 52, 54, 55.5, 57 cm orig. depth.

References for faunal analysis:

- Kiefer, Th. (1998): Produktivität und Temperaturen im subtropischen Nordatlantik: Zyklische und abrupte Veränderungen im späten Quartär. - Ber.-Rep. Geol. Paläont. Inst. Univ. Kiel, 90, 127 pp.

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16465: *G. inflata*

18394: *G. bulloides*