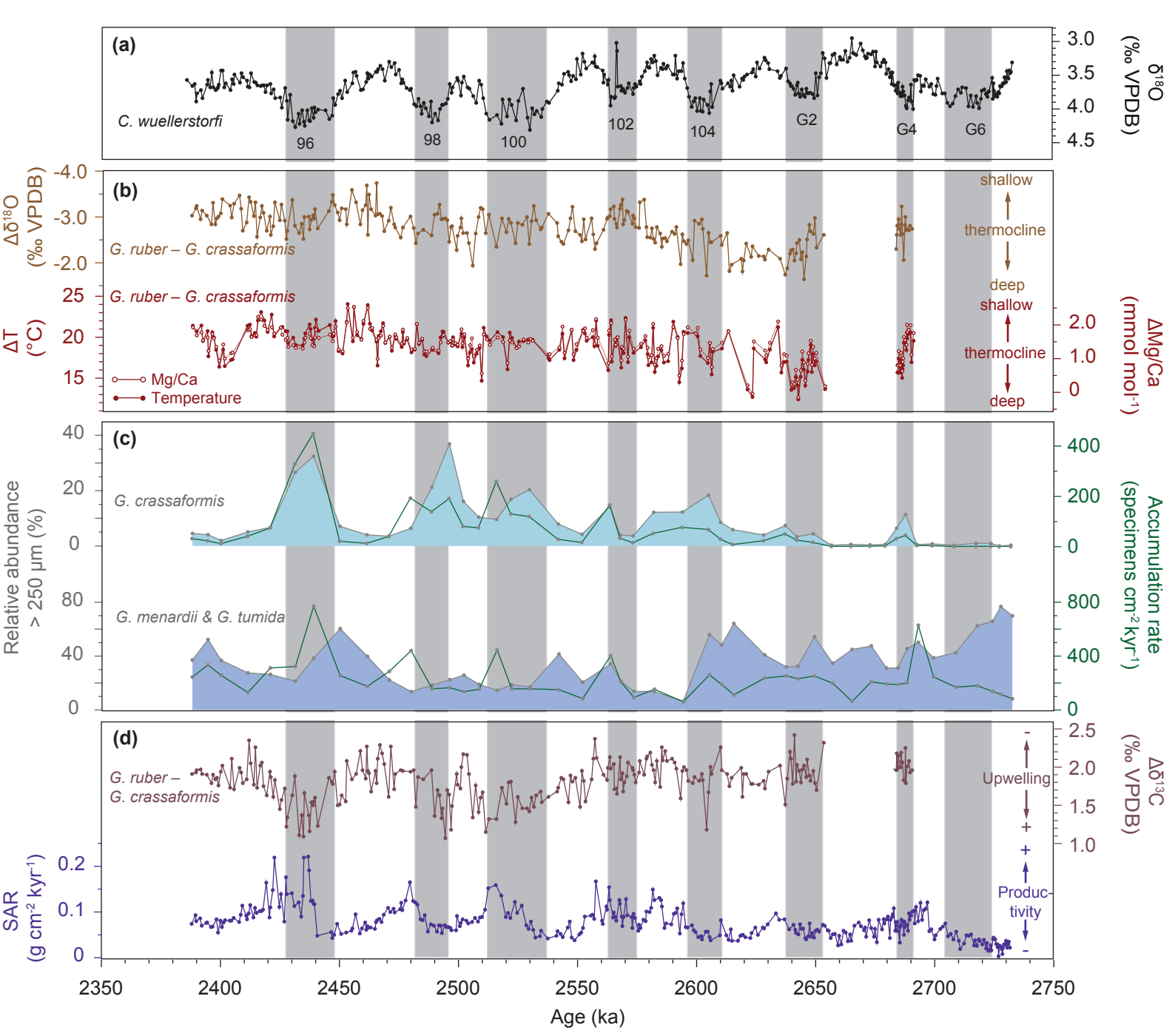
(a)
C. wuellerstorfi
96
98
100
102
104
G2
G4
G6
δ18O (‰ VPDB)
3.0
3.5
4.0
4.5
(b)
Δδ18O (‰ VPDB)
-4.0
-3.0
-2.0
G. ruber – G. crassaformis
shallow
thermocline
deep
ΔT (°C)
25
20
15
G. ruber – G. crassaformis
Mg/Ca
Temperature
shallow
thermocline
deep
ΔMg/Ca (mmol mol-1)
2.0
1.0
0
(c)
Relative abundance > 250 µm (%)
40
20
0
G. crassaformis
80
40
0
G. menardii & G. tumida
Accumulation rate (specimens cm-2 kyr-1)
400
200
0
800
400
0
(d)
G. ruber – G. crassaformis
Upwelling
+
+
Produc-tivity
Δδ13C (‰ VPDB)
2.5
2.0
1.5
1.0
SAR (g cm-2 kyr-1)
0.2
0.1
0
2350
2400
2450
2500
2550
2600
2650
2700
2750
Age (ka)