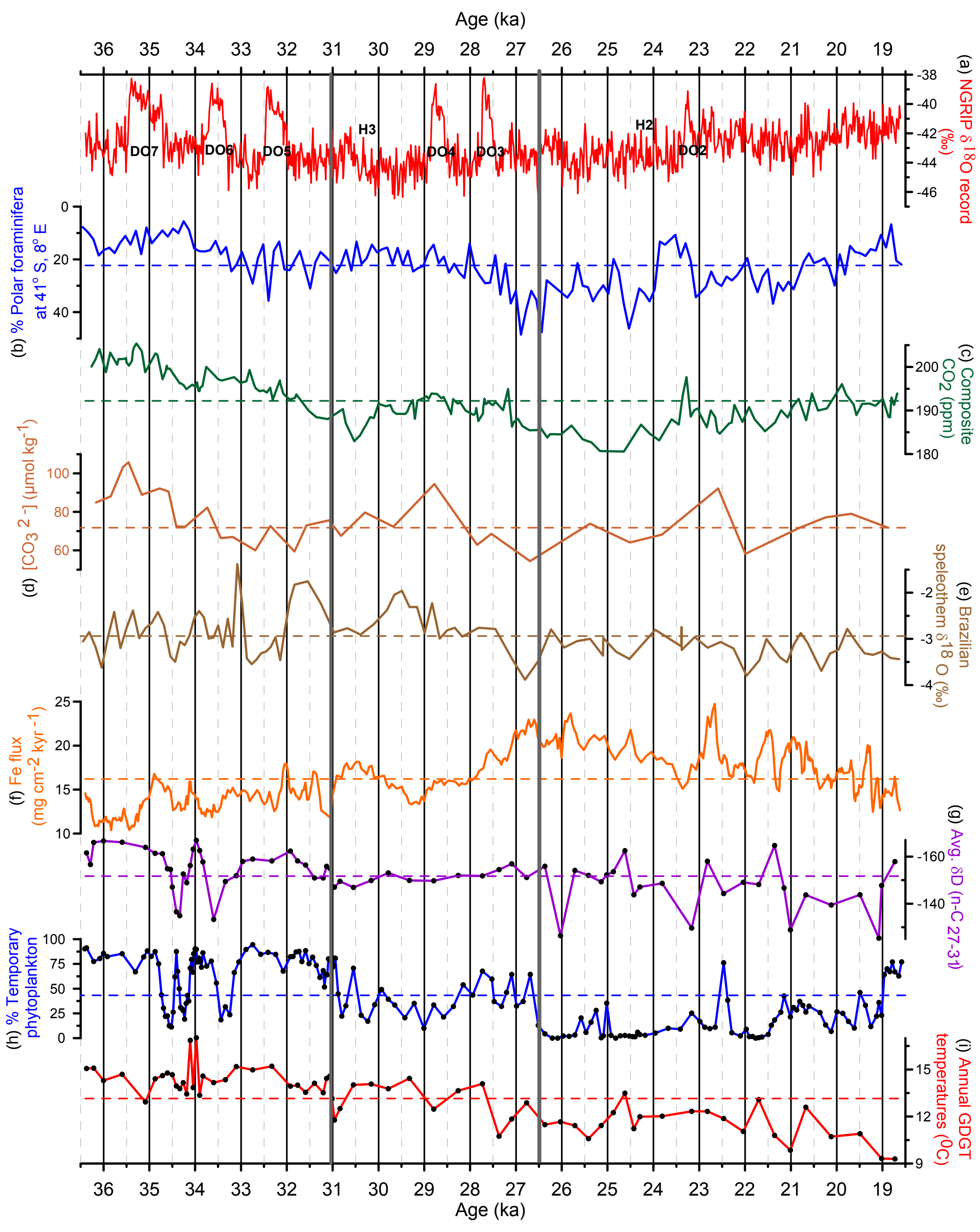
Age (ka)
36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19
(a) NGRIP δ18O record (‰)
-38 -40 -42 -44 -46
DO7 DO6 DO5 H3 DO4 DO3 H2 DO2
(b) % Polar foraminifera at 41° S, 8° E
0 20 40
(c) Composite CO2 (ppm)
200 190 180
(d) [CO3 2-] (µmol kg-1)
100 80 60
(e) Brazilian speleothem δ18 O (‰)
-2 -3 -4
(f) Fe flux (mg cm-2 kyr-1)
25 20 15 10
(g) Avg. δD (n-C 27-31)
-160 -140
(h) % Temporary phytoplankton
100 75 50 25 0
(i) Annual GDGT temperatures (0C)
15 12 9