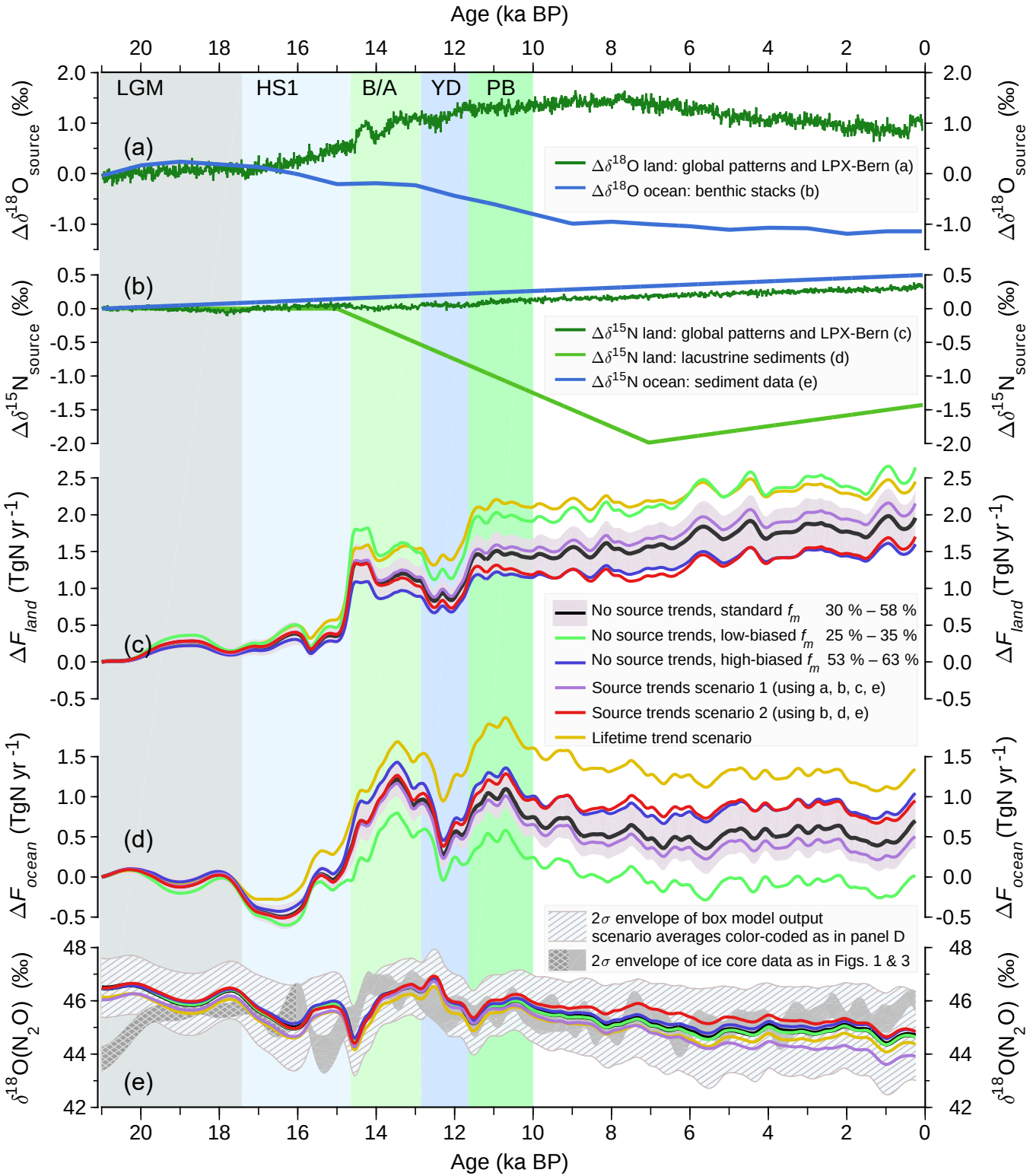
Age (ka BP)
LGM
HS1
B/A
YD
PB
(a)
Δδ18O land: global patterns and LPX-Bern (a)
Δδ18O ocean: benthic stacks (b)
Δδ18O source (‰)
(b)
Δδ15N land: global patterns and LPX-Bern (c)
Δδ15N land: lacustrine sediments (d)
Δδ15N ocean: sediment data (e)
Δδ15N source (‰)
(c)
No source trends, standard fm 30 % – 58 %
No source trends, low-biased fm 25 % – 35 %
No source trends, high-biased fm 53 % – 63 %
Source trends scenario 1 (using a, b, c, e)
Source trends scenario 2 (using b, d, e)
Lifetime trend scenario
ΔFland (TgN yr-1)
(d)
ΔFocean (TgN yr-1)
2σ envelope of box model output
scenario averages color-coded as in panel D
2σ envelope of ice core data as in Figs. 1 & 3
(e)
δ18O(N2O) (‰)