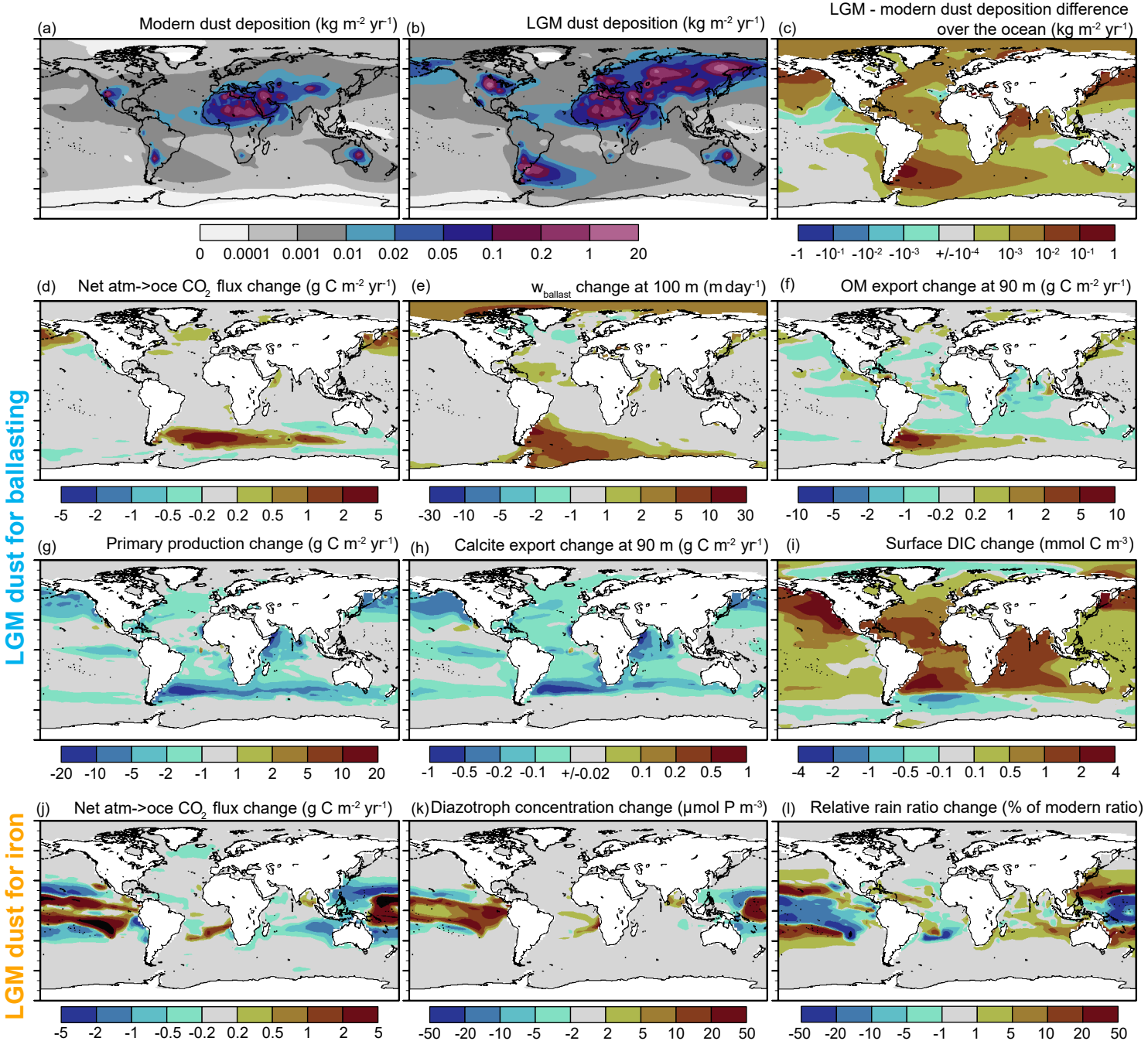
(a) Modern dust deposition (kg m-2 yr-1)
(b) LGM dust deposition (kg m-2 yr-1)
(c) LGM - modern dust deposition difference over the ocean (kg m-2 yr-1)
0 0.0001 0.001 0.01 0.02 0.05 0.1 0.2 1 20
-1 -10-1 -10-2 -10-3 +/-10-4 10-3 10-2 10-1 1
LGM dust for ballasting
(d) Net atm->oce CO2 flux change (g C m-2 yr-1)
(e) wballast change at 100 m (m day-1)
(f) OM export change at 90 m (g C m-2 yr-1)
-5 -2 -1 -0.5 -0.2 0.2 0.5 1 2 5
-30 -10 -5 -2 -1 1 2 5 10 30
-10 -5 -2 -1 -0.2 0.2 1 2 5 10
(g) Primary production change (g C m-2 yr-1)
(h) Calcite export change at 90 m (g C m-2 yr-1)
(i) Surface DIC change (mmol C m-3)
-20 -10 -5 -2 -1 1 2 5 10 20
-1 -0.5 -0.2 -0.1 +/-0.02 0.1 0.2 0.5 1
-4 -2 -1 -0.5 -0.1 0.1 0.5 1 2 4
LGM dust for iron
(j) Net atm->oce CO2 flux change (g C m-2 yr-1)
(k) Diazotroph concentration change (µmol P m-3)
(l) Relative rain ratio change (% of modern ratio)
-5 -2 -1 -0.5 -0.2 0.2 0.5 1 2 5
-50 -20 -10 -5 -2 2 5 10 20 50
-50 -20 -10 -5 -1 1 5 10 20 50