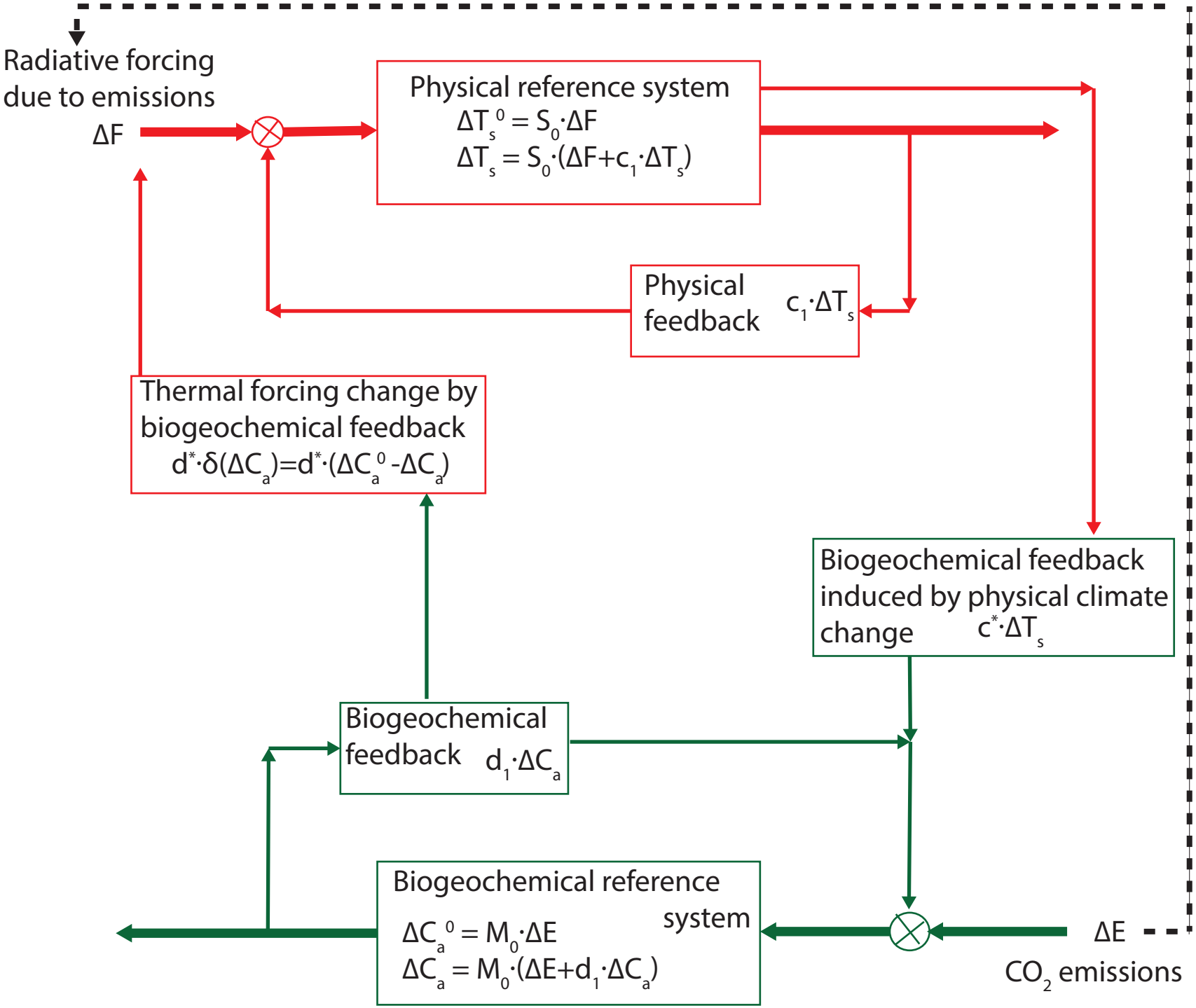
Radiative forcing due to emissions
ΔF
Physical reference system
$\Delta T_s^0 = S_0 \cdot \Delta F$
$\Delta T_s = S_0 \cdot (\Delta F + c_1 \cdot \Delta T_s)$
Physical feedback
$c_1 \cdot \Delta T_s$
Thermal forcing change by biogeochemical feedback
$d^* \cdot \delta(\Delta C_a) = d^* \cdot (\Delta C_a^0 - \Delta C_a)$
Biogeochemical feedback induced by physical climate change
$c^* \cdot \Delta T_s$
Biogeochemical feedback
$d_1 \cdot \Delta C_a$
Biogeochemical reference system
$\Delta C_a^0 = M_0 \cdot \Delta E$
$\Delta C_a = M_0 \cdot (\Delta E + d_1 \cdot \Delta C_a)$
ΔE
CO_2 emissions