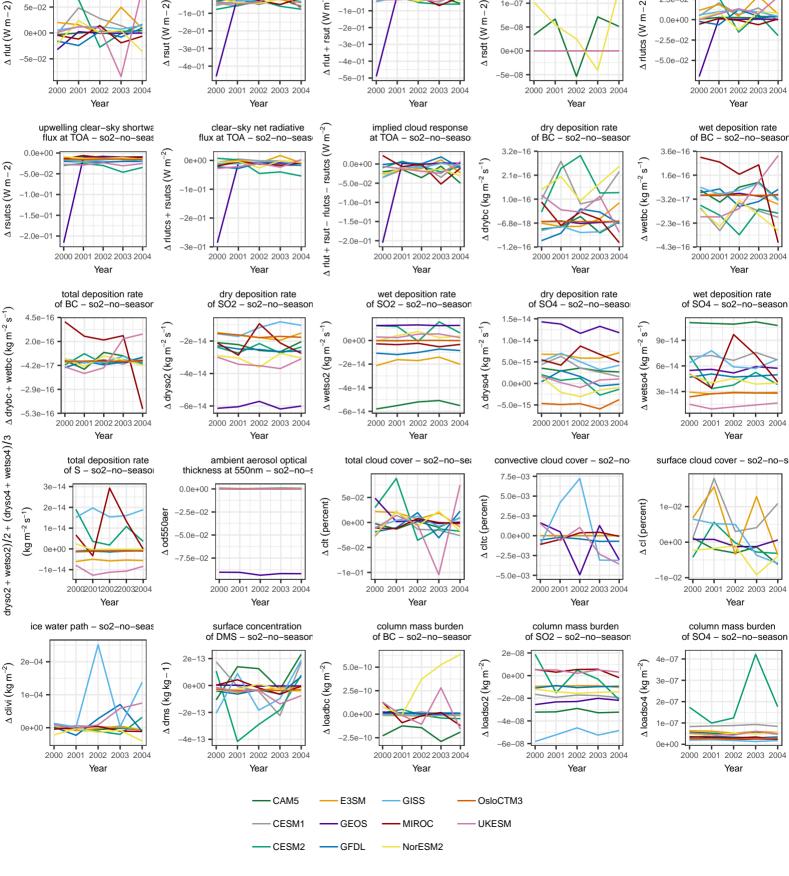
global: absolute difference surface flux surface concentration surface concentration surface concentration of SO2 - so2-no-seasor of SO4 - so2-no-seasor of SO2 - so2-no-seasor 0e+00 (kg kg - 1)so2 (kg kg-1) 16-13 mmrbc (kg kg-1e-14 ∆ mmrso4 0e+00 0.0e+00 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 upwelling clear-sky longwa flux at TOA - so2-no-seas upwelling shortwave flux net radiative flux incident shortwave flux at TOA - so2-no-season at TOA - so2-no-season at TOA - so2-no-season 2.5e-02 Ē 1e-07 Δ rlutcs (W m-2) 1e=01 -1e-01 ٤ m -2e-0 rsut (rsdt (W _2 5e_02 _3e_01 A riut + 0e+00 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year ′ m⁻²) dry deposition rate of BC – so2–no–seasor clear-sky net radiative implied cloud response wet deposition rate flux at TOA - so2-no-seas at TOA - so2-no-seaso of BC - so2-no-seasor 3.2e-16 3.6e-16 0.0e+00 drybc (kg m⁻² s^{-'} wetbc (kg m⁻² rlutes -6.8e-SIT 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 ∄ 2000 2001 2002 2003 2004 Year Year dry deposition rate wet deposition rate of SO2 – so2–no–season dry deposition rate wet deposition rate of SO4 – so2–no–season of SO2 – so2-no-season of SO4 – so2-no-seaso wetso4 (kg m⁻² s⁻ (kg m⁻² s⁻ dryso4 (kg m⁻² 5 0e-15 wetso2 0.0e+0.0-5.0e-15 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year ambient aerosol optical total cloud cover - so2-no-sea convective cloud cover - so2-no surface cloud cover - so2-no-s 7.5e-03 5.0e-03 ∆ cltc (percent) (percent) ∆ cl (percent 1e-02 2.5e-03 0e+00 ^ clt -2.5e-03 5.0e-03 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year surface concentration column mass burden column mass burden column mass burden of DMS - so2-no-seasor of BC - so2-no-seasor of SO4 - so2-no-season



surface flux

of BC - so2-no-seasor

2000 2001 2002 2003 2004

upwelling longwave flux

at TOA - so2-no-season

 Δ emiso2 (kg m $^{-2}$ s $^{-1}$

E

7.5e-18

-7.4e-

-1 1e-16

5e-02

0e+00

emibc (kg m^{-2} s⁻¹)