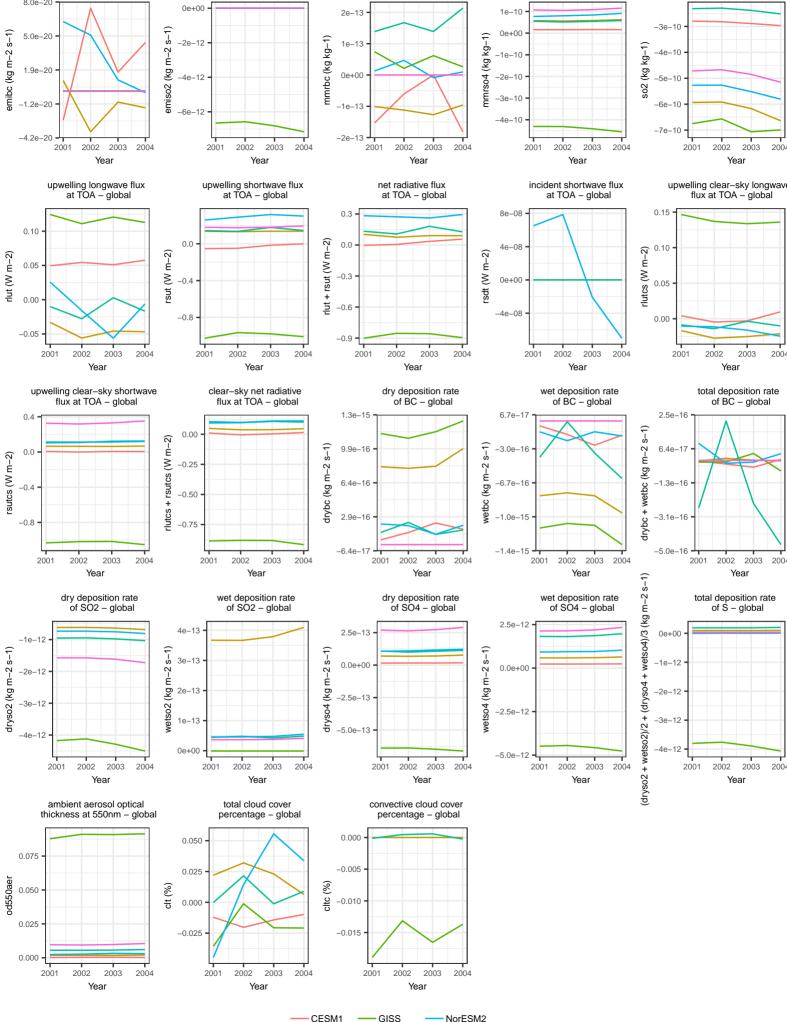
so2-at-height: absolute difference surface flux of SO2 – global surface concentration surface concentration of SO4 – global surface concentration of SO2 – global of BC – global 1e-10 mmrbc (kg kg-1) so2 (kg kg-1) (kg 0e+00 -5e-10 mmrso4 -6e-10 2002 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year upwelling clear-sky longwave flux at TOA - global net radiative flux incident shortwave flux at TOA - global at TOA - global 0.3 8e-08 rlut + rsut (W m-2) 0.0 4e-08 0.10 rlutcs (W m-2) .sdt (W m-2) -0.6 0.00 2003 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year dry deposition rate wet deposition rate total deposition rate of BC - global of BC - global of BC - global 1.3e-15 6.7e-17 2.5e-16 drybc + wetbc (kg m-2 s-1) drybc (kg m-2 s-1) wetbc (kg m-2 s-1) 9.9e-16 6.4e-17 6.4e-16 2 9e 2003 2003 2002 2003 2001 2002 2001 2002 2001 2002 2003 Year Year Year Year (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3 (kg m-2 s-1) total deposition rate of S – global wet deposition rate dry deposition rate wet deposition rate of SO2 – global of SO4 – global of SO4 – global 0e+00 dryso4 (kg m-2 s-1) wetso4 (kg m-2 s-1) 0.0e+00 -2e-12 -5.0e-13 2002 2003 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 Year Year convective cloud cover total cloud cover percentage - global percentage - global



E3SM

MIROC

OsloCTM3

surface flux of BC – global