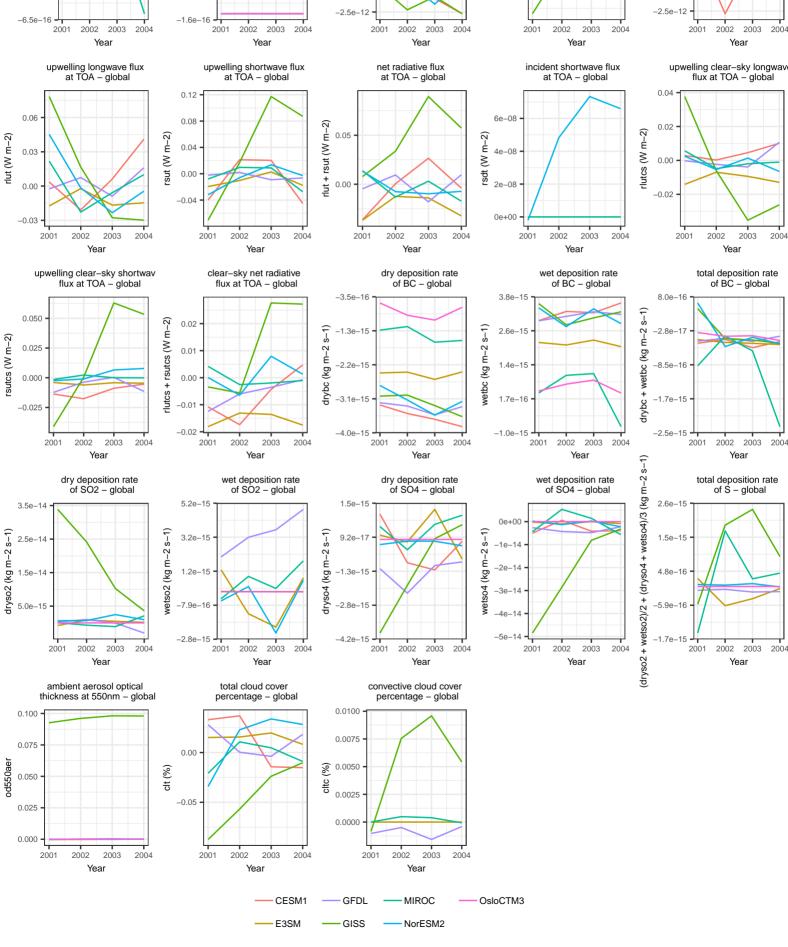
## bc-no-season: absolute difference surface flux of SO2 – global surface concentration of SO2 – global surface flux of BC – global surface concentration surface concentration of SO4 – global -5.0e-13 emiso2 (kg m-2 s-1) mmrbc (kg kg-1) -1 0e-12 so2 (kg kg-1) mmrso4 (kg 1.6e-15 0.0e+00 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year Year upwelling shortwave flux at TOA – global upwelling clear-sky longwave flux at TOA - global net radiative flux incident shortwave flux at TOA - global at TOA - global 0.04 0.12 6e-08 0.08 rlut + rsut (W m-2) 0.02 rlutcs (W m-2) rsut (W m-2) 0.04 rsdt (W m-4e-08 0.00 0.00 0.00 -0.02 -0.042003 2001 2003 2001 2002 2003 2001 2003 2001 2002 2003 Year Year Year Year Year clear-sky net radiative dry deposition rate wet deposition rate total deposition rate flux at TOA - global of BC - global of BC - global of BC - global 3.8e-15 8.0e-16 -3.5e-16 drybc + wetbc (kg m-2 s-1) 0.02 drybc (kg m-2 s-1) wetbc (kg m-2 s-1) 2.6e-15 -2.8e-17 rlutes + rsutes (W 0.01 1.4e-15 -8.5e-16 0.00 -0.01 -0.022003 2004 2001 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year Year (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3 (kg m-2 s-1) wet deposition rate of SO4 – global total deposition rate of S – global wet deposition rate dry deposition rate of SO2 – global of SO4 – global 5.2e-15 1.5e-15 2.6e-15 0e+00 wetso2 (kg m-2 s-1) (kg m-2 s-1)dryso4 (kg m-2 s-1) 3.2e-15 9.2e-1 -2e-14 1.2e-15 wetso4 2003 2004 2001 2002 2003 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 2004 Year Year Year convective cloud cover total cloud cover percentage - global percentage - global 0.0100 0.0075 0.0050 % clt (%) 0.0025 -0.05



emibc (kg m-2 s-1)

-2.6e-16