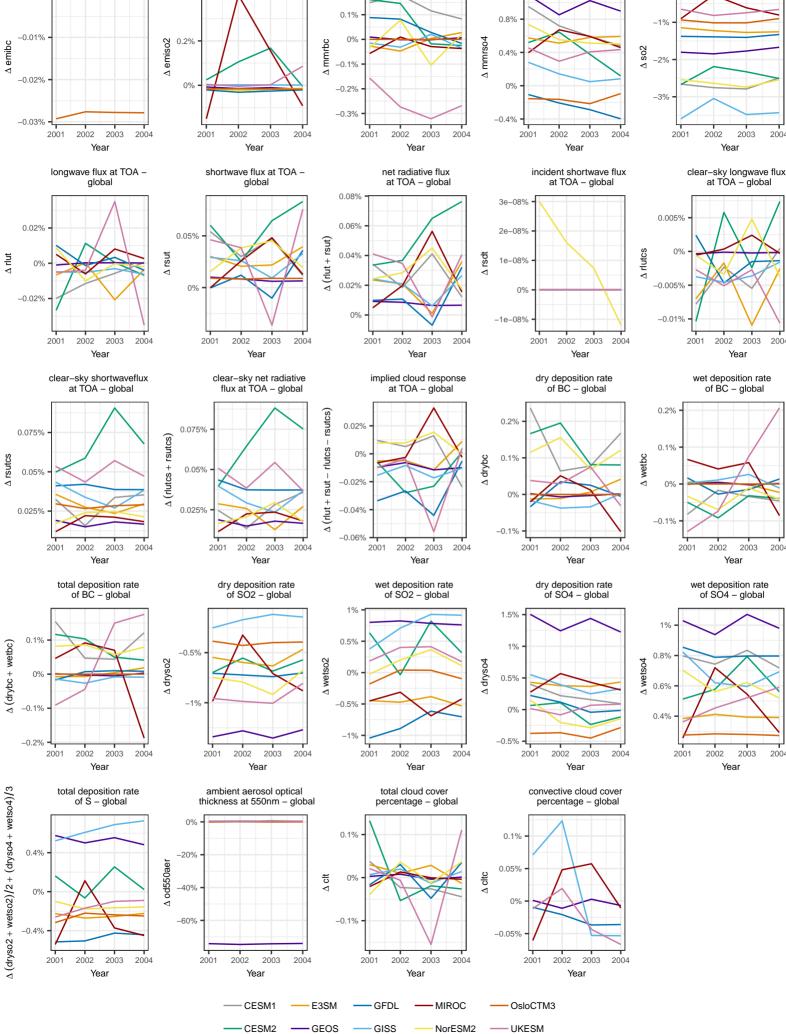
## so2-no-season: percent difference surface flux of SO2 – global surface concentration surface concentration of SO4 – global surface concentration of SO2 – global 0.2% 0.4% 0.1% 0.8% 0% ∆ mmrbc -0.1% 0% -0.2%-3% -0.3% \_0.4% 2001 2002 2003 2001 2002 2003 2004 2001 2002 2003 2001 2002 2003 Year Year Year Year clear-sky longwave flux at TOA - global shortwave flux at TOA net radiative flux incident shortwave flux at TOA - global at TOA - global global 0.08% 3e-08% 0.06% 2e-08% ∆ (rlut + rsut) 1e-08% 0% 0% -1e-08% -0.01% 2001 2002 2003 2001 2002 2003 2002 2003 2002 2003 Year Year Year Year clear-sky net radiative implied cloud response dry deposition rate wet deposition rate flux at TOA - global at TOA - global of BC – global of BC - global 0.2% (rlut + rsut - rlutcs - rsutcs) 0.2% 0.02% 0.1 0.1% △ wetbc △ drybc 0.05% -0.02% 0% -0.19 -0.1% -0.0692003 2001 2003 2001 2003 2001 2001 2003 Year Year Year Year dry deposition rate of SO4 – global wet deposition rate of SO4 – global dry deposition rate wet deposition rate of SO2 – global of SO2 – global 0.5% 0.8% $\Delta$ wetso2 ∆ wetso4 ∆ dryso4 0% 0.5% 0.6% 0% 0.4% -0.5% 2001 2002 2003 2001 2002 2003 2004 2001 2002 2003 2001 2002 2003 2004 Year Year ambient aerosol optical total cloud cover convective cloud cover thickness at 550nm - global percentage - global percentage - global 0% 0.1%



surface flux of BC – global

0%