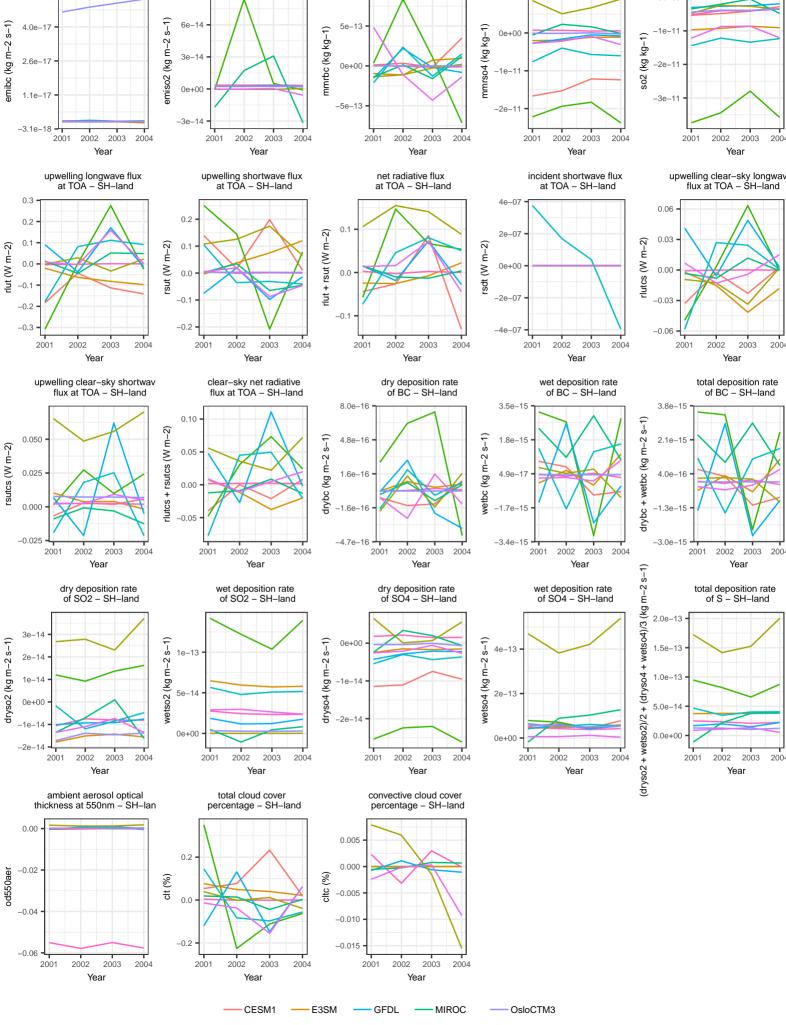
## so2-no-season: absolute difference surface flux of SO2 – SH–land surface concentration of BC – SH–land surface flux of BC – SH–land surface concentration of SO4 – SH-land surface concentration of SO2 – SH–land mmrso4 (kg kg-1) mmrbc (kg kg-1) 00+00 so2 (kg kg-1) emiso2 (kg m-2 0e+00 0e+00 2001 2002 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year upwelling shortwave flux at TOA – SH–land net radiative flux at TOA – SH–land incident shortwave flux at TOA – SH–land upwelling clear-sky longwave flux at TOA - SH-land 0.06 0.2 rlut + rsut (W m-2) 2e-07 0.03 rlutcs (W m-2) rsdt (W m-2) rsut (W m-2) 0.1 0e+00 0.00 0.0 0.0 -0.1 -2e-07 -0.1 -0.06 2001 2003 2001 2003 2002 2003 2001 2002 2003 Year Year Year Year dry deposition rate of BC – SH–land wet deposition rate of BC – SH–land clear-sky net radiative total deposition rate flux at TOA - SH-land of BC - SH-land 8.0e-16 3.5e-15 3.8e-15 0.10 drybc + wetbc (kg m-2 s-1) rlutcs + rsutcs (W m-2) drybc (kg m-2 s-1) wetbc (kg m-2 s-1) 1.8e-15 0.05 1.6e-16 4.0e-16 0.00 -0.05 2001 2003 2001 2002 2003 2001 2003 2001 2002 2003 Year Year Year Year wetso4)/3 (kg m-2 s-1) total deposition rate of S – SH–land dry deposition rate of SO4 – SH–land wet deposition rate of SO4 – SH–land wet deposition rate of SO2 - SH-land 0e+00 wetso2 (kg m-2 s-1) dryso4 (kg m-2 s-1) wetso4 (kg m-2 s-1 (dryso2 + wetso2)/2 + (dryso4 + 0e+00 0.0e + 002001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 2004 Year convective cloud cover total cloud cover percentage - SH-land percentage - SH-land 0.005 0.000



CESM2

**GEOS** 

**GISS** 

NorESM2

**UKESM**