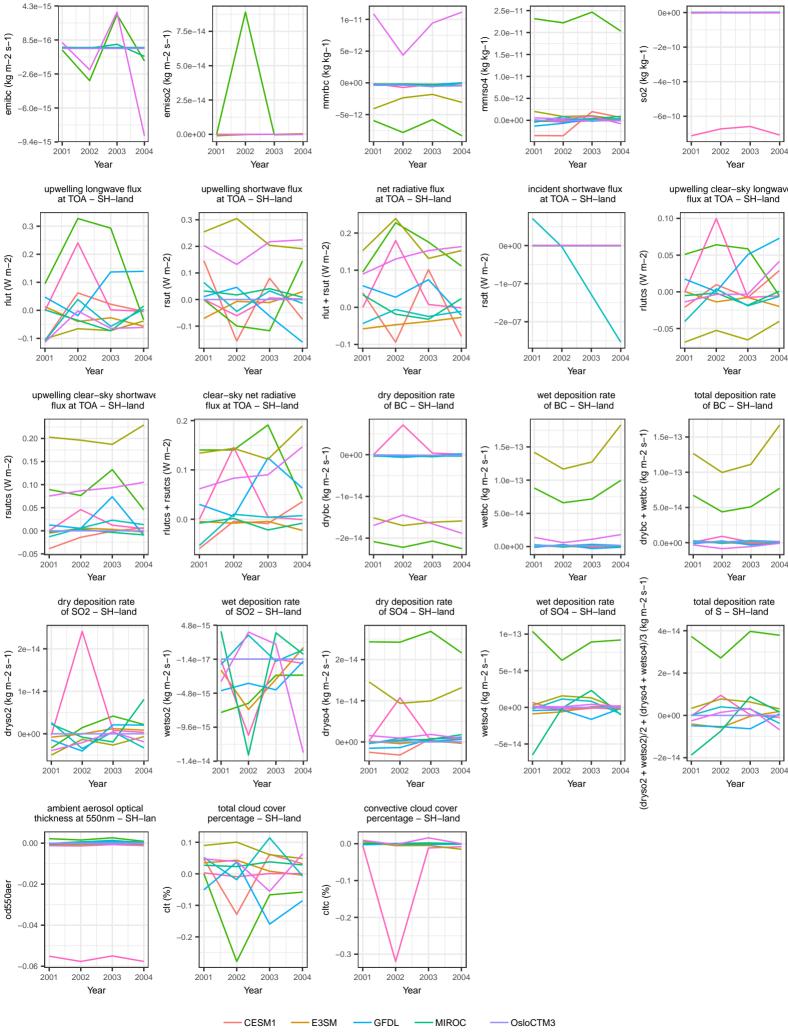
## bc-no-season: absolute difference surface flux of SO2 – SH–land surface concentration of BC – SH–land surface concentration of SO4 – SH–land surface concentration of SO2 – SH–land 0e+00 mmrbc (kg kg-1) β so2 (kg kg-1) (kg 0e+00 5.0e-12 -6e-10 0.0e + 0.0e +2001 2002 2003 2001 2002 2003 2001 2002 2003 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 0.10 0.2 rlut + rsut (W m-2) rlutcs (W m-2) 0.05 rsdt (W m-2) 0.1 0.00 0.0 -2e-07 -0.05 -0. 2003 2001 2003 2001 2002 2003 2001 2003 Year Year Year Year dry deposition rate of BC – SH–land total deposition rate of BC – SH–land clear-sky net radiative wet deposition rate flux at TOA - SH-land of BC - SH-land drybc + wetbc (kg m-2 s-1 drybc (kg m-2 s-1) wetbc (kg m-2 1.0e-13 5.0e-14 0.0e+00 0.0e+00 2003 2003 2003 2001 2002 2003 2001 2002 2001 2002 Year Year Year Year wetso2)/2 + (dryso4 + 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 dryso4 (kg m-2 s-1) wetso4 (kg m-2 s-1) 0e+00 0e+00 0e+00 2001 2002 2003 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 2004 (dryso2 + 1 Year Year total cloud cover convective cloud cover percentage - SH-land 0.0



CESM2

**GEOS** 

**GISS** 

NorESM2

**UKESM** 

surface flux of BC – SH–land