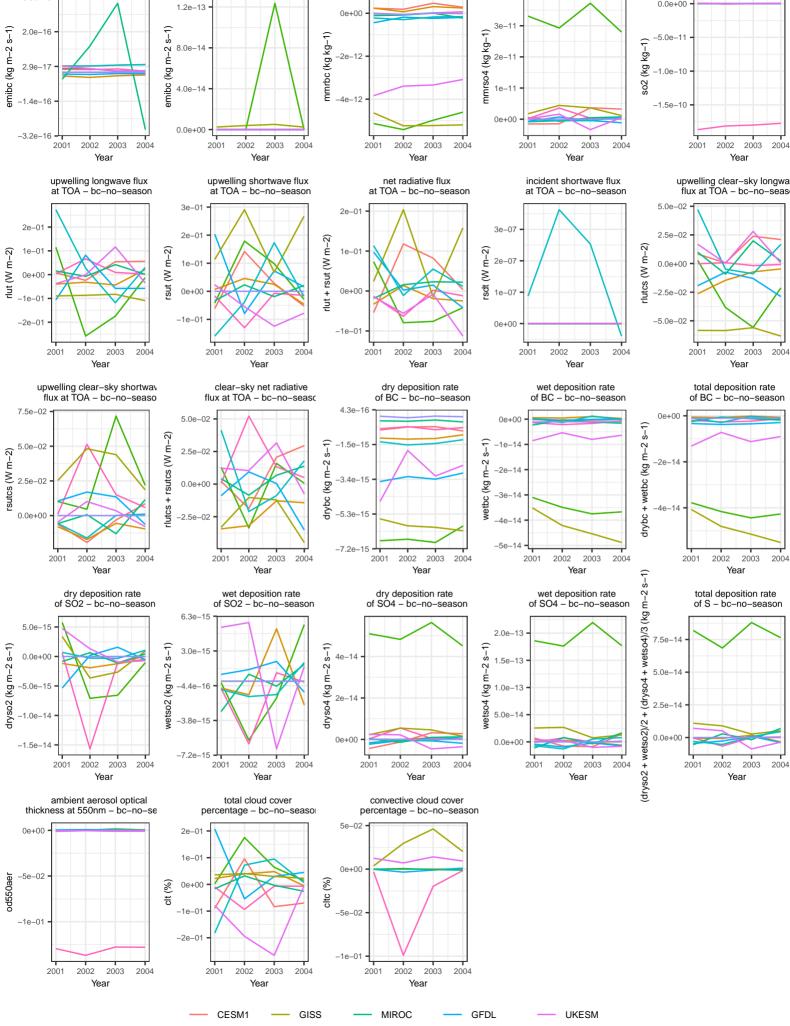
bc-no-season: absolute difference surface flux of SO2 – bc–no–season surface concentration surface concentration of SO4 – bc–no–season surface concentration of SO2 – bc–no–season 0.0e+00 mmrbc (kg kg-1) -5.0e-11 so2 (kg kg-1) mmrso4 (kg -1.0e-10 -1.5e-10 0e+00 2001 2002 2003 2001 2002 2003 2001 2002 2003 2002 2003 Year Year Year Year upwelling shortwave flux at TOA – bc–no–season incident shortwave flux at TOA – bc–no–season upwelling clear-sky longwar flux at TOA - bc-no-seaso net radiative flux at TOA - bc-no-season 5.0e-02 3e-07 2.5e-02 rlut + rsut (W m-2) ·lutcs (W m-2) 1e-01 2e-07 0.0e+00 rsdt (W r 1e-07 -2.5e-02 -5.0e-02 0e+00 -1e-01 2003 2003 2003 2001 2002 2003 2001 2002 2004 2001 2002 2001 2002 Year Year Year Year clear-sky net radiative dry deposition rate wet deposition rate total deposition rate flux at TOA - bc-no-seaso of BC - bc-no-season of BC - bc-no-season of BC - bc-no-season drybc + wetbc (kg m-2 s-1) drybc (kg m-2 s-1) <u>8</u> 2001 2002 2003 2004 2001 2002 2003 2004 2001 2003 2001 2002 2003 Year Year Year Year wet deposition rate dry deposition rate wet deposition rate total deposition rate of SO2 - bc-no-season of SO4 - bc-no-season of SO4 - bc-no-season of S - bc-no-season 2.0e-13 dryso4 (kg m-2 s-1) (kg m-2 s-1 /so4 + 1.0e-13 <u>6</u> 5.0e-14 (dryso2 + wetso2)/2 + 0.0e + 0.02001 2002 2003 2001 2002 2003 2002 2003 2001 2002 2003 Year Year Year Year total cloud cover convective cloud cover percentage - bc-no-season percentage - bc-no-season 5e-02 0e+00



E3SM

CESM2

NorESM2

OsloCTM3

GEOS

surface flux of BC – bc–no–season

3.8e-16