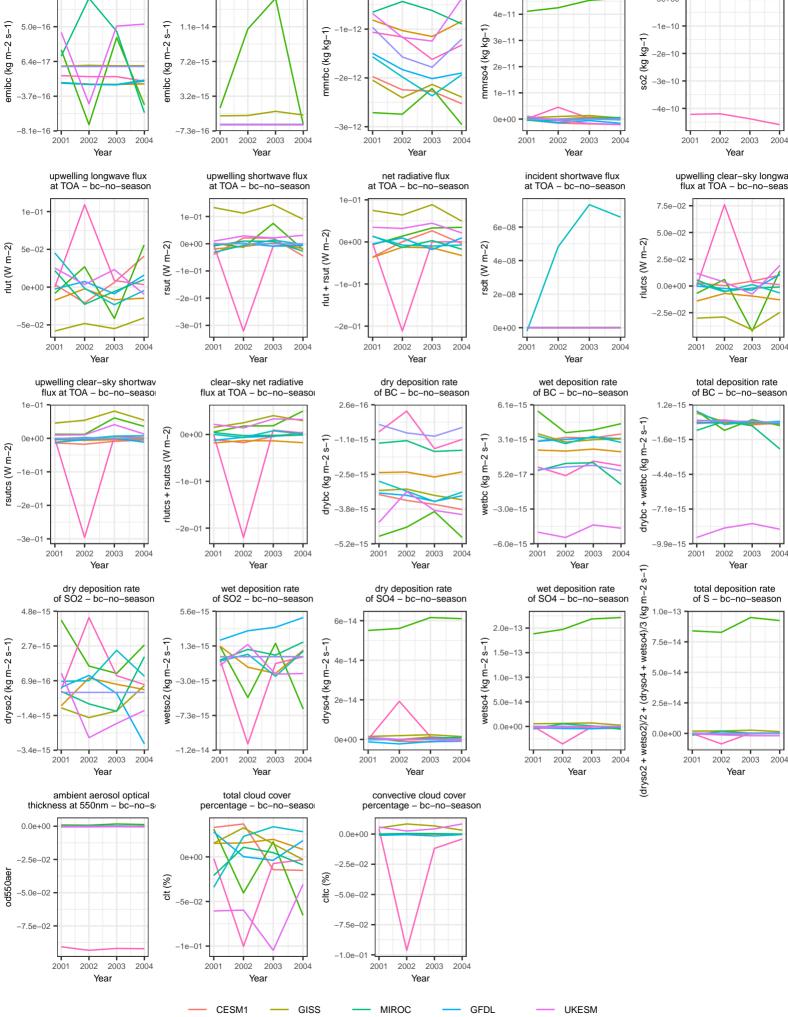
bc-no-season: absolute difference surface flux of SO2 – bc–no–season surface concentration surface concentration of SO4 – bc–no–season surface concentration of SO2 – bc–no–season of BC - bc-no-seasor 1.5e-14 0e+00 4e-1 -1e-10 kg− nmrbc (kg kg-' so2 (kg kg-1) mmrso4 (kg 2e-1 -3e-10 -4e-10 00+00 2001 2002 2003 2001 2002 2003 2001 2002 2003 2001 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 7.5e-02 6e-08 rlut + rsut (W m-2) rlutcs (W m-2) 0e+00 rsdt (W m-2) 4e-08 -1e-01 0.0e+00 2e-08 -2.5e-02 0e+00 2003 2003 2001 2002 2003 2004 2001 2002 2003 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-season of BC - bc-no-season of BC - bc-no-season of BC - bc-no-season wetbc (kg m-2 s-1) wetbc (kg m-2 s-1) -1.6e-15 drybc (kg m-2 s-1) 2001 2002 2003 2004 2001 2003 2004 2001 2002 2003 2001 2002 2003 Year Year Year Year (kg m-2 s-1)dry deposition rate of SO4 – bc–no–season wet deposition rate of SO4 – bc–no–season wet deposition rate total deposition rate of SO2 - bc-no-season of S - bc-no-season wetso4)/3 2.0e-13 dryso4 (kg m-2 s-1) (kg m-2 s-1 4e-14 (dryso2 + wetso2)/2 + (dryso4 + 5.0e-14 tso4 5.0e-14 2.5e-14 0e+002001 2002 2003 2001 2002 2003 2002 2003 2001 2002 2003 Year Year Year Year total cloud cover



E3SM

CESM2

NorESM2

OsloCTM3

GEOS

surface flux of BC – bc–no–season

9.3e-16