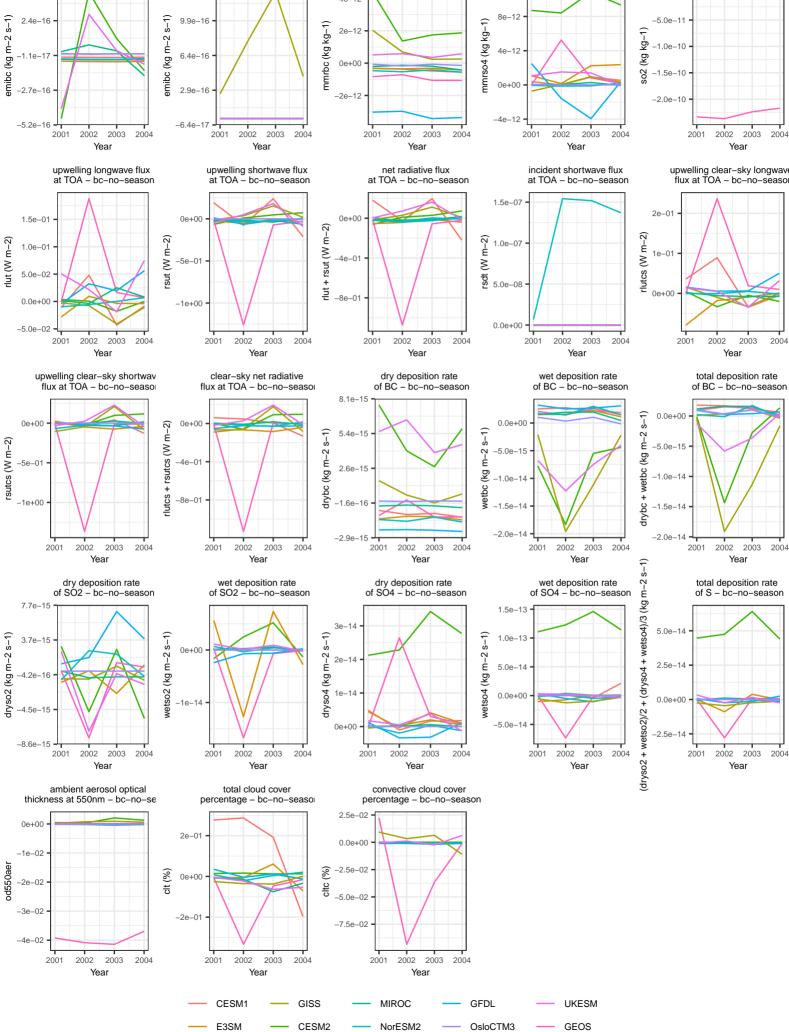
bc-no-season: absolute difference surface flux of SO2 – bc–no–season surface concentration surface concentration of SO4 – bc–no–season surface concentration of SO2 – bc–no–season 1.3e-15 0.0e+00 kg-1) mmrbc (kg kg-1) (kg kg-1)mmrso4 (kg 0e+00 302 -2.0e-10 2001 2002 2003 2001 2002 2003 2001 2002 2002 2003 Year Year Year Year upwelling shortwave flux at TOA – bc–no–season incident shortwave flux at TOA – bc–no–season upwelling clear-sky longwave flux at TOA - bc-no-seasor net radiative flux at TOA - bc-no-season 1.5e-07 2e-01 0e+00 rlut + rsut (W m-2) rlutcs (W m-2) sdt (W m-2) 1.0e-07 4e-01 5.0e-08 0e+00 -8e-01 0.0e+00 2003 2003 2002 2003 2002 2001 2002 2004 2001 2002 2004 2001 2001 2003 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 0.0e+00 (kg m-2 s-1 0.0e+00 drybc (kg m-2 s-1) -5.0e-15 2.6e-15 (<u>k</u> 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 2001 2002 2003 Year Year Year Year dry deposition rate of SO4 – bc–no–season wet deposition rate wet deposition rate total deposition rate of SO2 - bc-no-season of SO4 - bc-no-season of S - bc-no-season 1.5e-13 (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3 dryso4 (kg m-2 s-1) wetso4 (kg m-2 s-1) 2e-14 5.0e-14 1e-14 0.0e+00 0.0e+00 0e+00 2001 2002 2003 2001 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year total cloud cover convective cloud cover percentage - bc-no-season 2.5e-02 0.0e+00



surface flux of BC – bc–no–season

5.0e-16