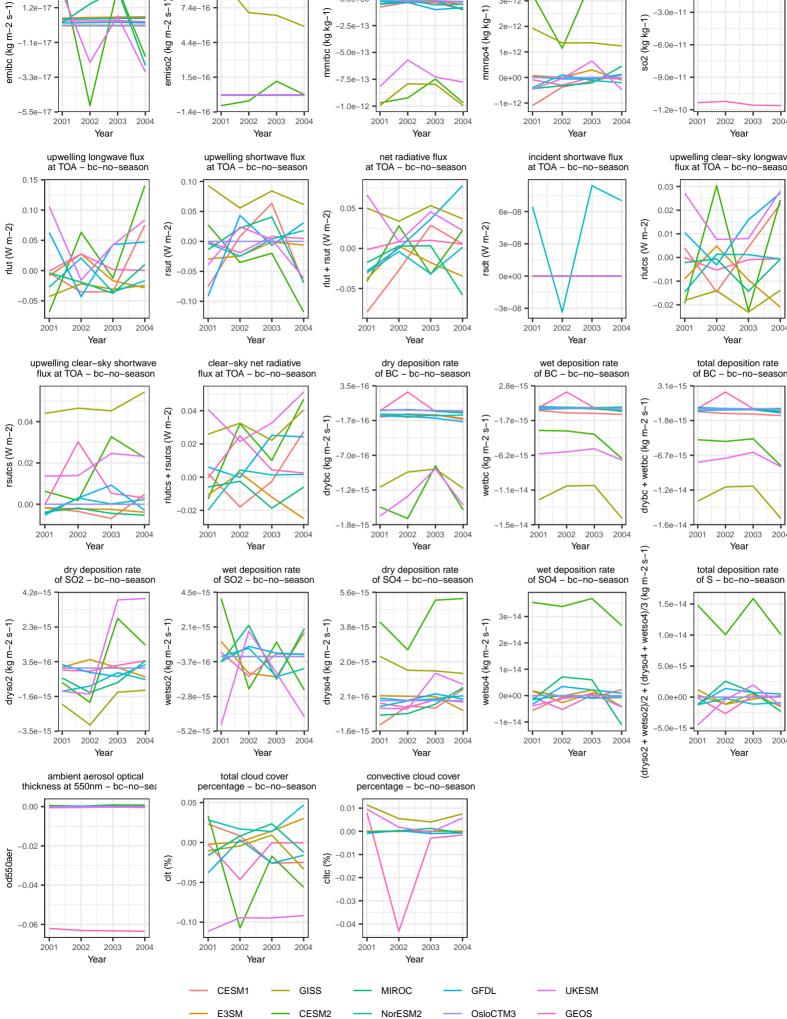
bc-no-season: absolute difference surface flux of SO2 – bc–no–season surface concentration surface concentration of SO4 – bc–no–season surface concentration of SO2 – bc–no–season of BC - bc-no-seasor 1.0e-15 0.0e+00 0.0e+00 mmrso4 (kg kg-1) mmrbc (kg kg-1) so2 (kg kg-1) -2 5e-13 -5.0e-13 1e-12 0e+00 -9.0e-1 -1e-12 -1.0e-12 -1.2e-10 2001 2002 2003 2001 2002 2003 2001 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 longwave flux at TOA - bc-no-seasor net radiative flux at TOA - bc-no-season 0.03 0.05 6e-08 rlut + rsut (W m-2) rlutcs (W m-2) rsdt (W m-2) 0.01 0.00 0.00 00+00 -0.05 -0.02-3e-08 2003 2004 2003 2003 2003 2002 2001 2002 2004 2001 2002 2004 2001 2002 Year Year Year Year dry deposition rate of BC – bc–no–season clear-sky net radiative wet deposition rate total deposition rate of BC - bc-no-season of BC - bc-no-season drybc + wetbc (kg m-2 s-1) wetbc (kg m-2 s-1) -1.8e-15 drybc (kg m-2 s-1) 2002 2003 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 Year Year Year Year (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3 (kg m-2 s-1) 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 5.6e-15 1.5e-14 dryso4 (kg m-2 s-1) wetso4 (kg m-2 s-1) 3.8e-15 1 0e-14 2e-14 2.0e-15 5.0e-15 0.0e+00 -1.6e-1 2001 2002 2003 2002 2003 2001 2002 2003 2002 2003 Year Year Year Year total cloud cover convective cloud cover percentage - bc-no-season



surface flux of BC – bc–no–season

3.4e-17