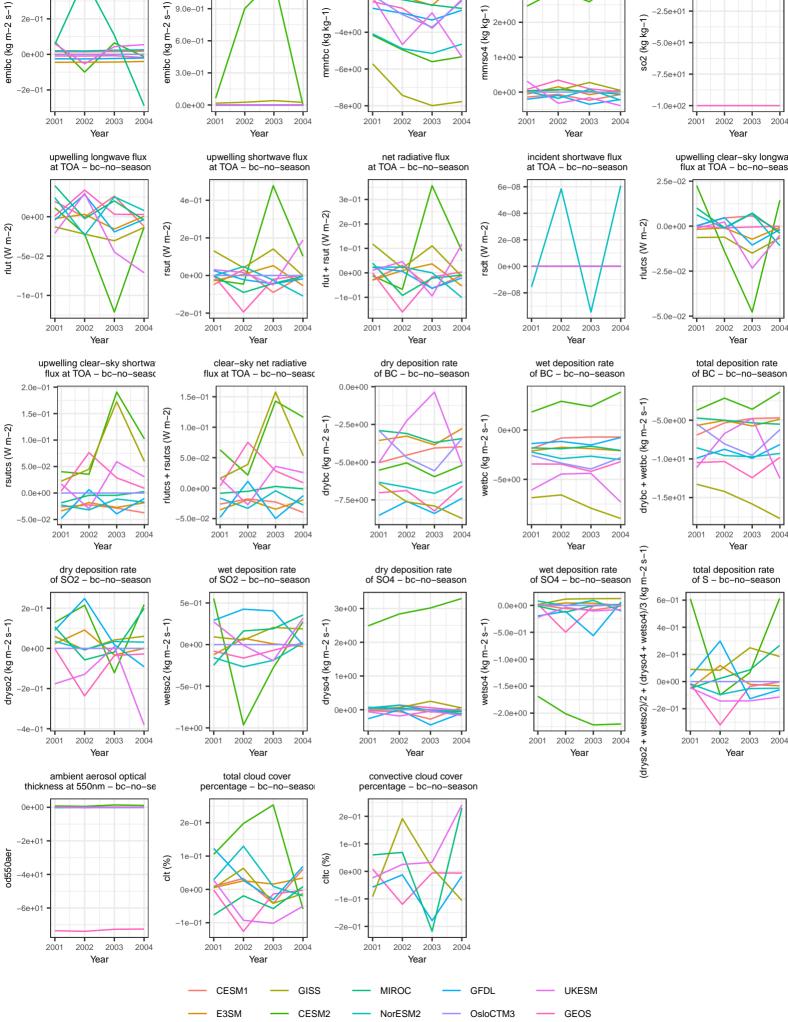
bc-no-season: absolute difference surface flux of SO2 – bc–no–season surface concentration of SO4 – bc–no–season surface concentration surface concentration of SO2 – bc–no–season of BC - bc-no-season 1.2e+00 0.0e+00 3e+00 -2e+00 emibc (kg m-2 s-1) 9.0e-01 nmrbc (kg kg-1) so2 (kg kg-1) 2e+00 4e+00mmrso4 (kg 6.0e-01 -5.0e+01 -6e+00 3.0e-01 _7 5e+01 0e+00 2001 2002 2003 2001 2002 2003 2001 2003 2002 2003 2001 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 4e-01 rlut + rsut (W m-2) 2e-01 ·lutcs (W m-2) 0.0e+00 rsut (W m-2) sdt (W m-2) 2e-01 1e-01 0e+00 0e+00 -1e-01 -2e-01 -5.0e-02 2003 2003 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2001 2002 Year Year Year dry deposition rate of BC – bc–no–season clear-sky net radiative wet deposition rate total deposition rate flux at TOA - bc-no-seaso of BC - bc-no-season of BC - bc-no-season 0.0e+00 wetbc (kg m-2 s-1 ·lutcs + rsutcs (W m-2) wetbc (kg m-2 s-1) drybc (kg m-2 s-1 -2.5e+00 0e+00 5.0e-02 -1 0e+01 -5.0e+00 0.0e+00-1.5e+01 -7.5e+00 -5.0e-02 2001 2002 2003 2001 2002 2003 2004 2001 2002 2003 2002 2003 Year Year Year Year (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3 (kg m-2 s-1) 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 0.0e+00 3e+00 wetso2 (kg m-2 s-1) dryso4 (kg m-2 s-1) 4e-01 0e+00 2e+00 (kg m-2)2e-01 1e+00 -1.5e+00 -5e-01 -2e-01 0e+00 -2.0e+00 -1e+00 2001 2002 2003 2001 2002 2003 2001 2002 2003 2002 2003 Year Year Year Year convective cloud cover percentage – bc-no-season total cloud cover 2e-01 2e-01 1e-01 1e-01 clt (%) cltc (%) 0e+00



surface flux of BC – bc–no–season

4e-01