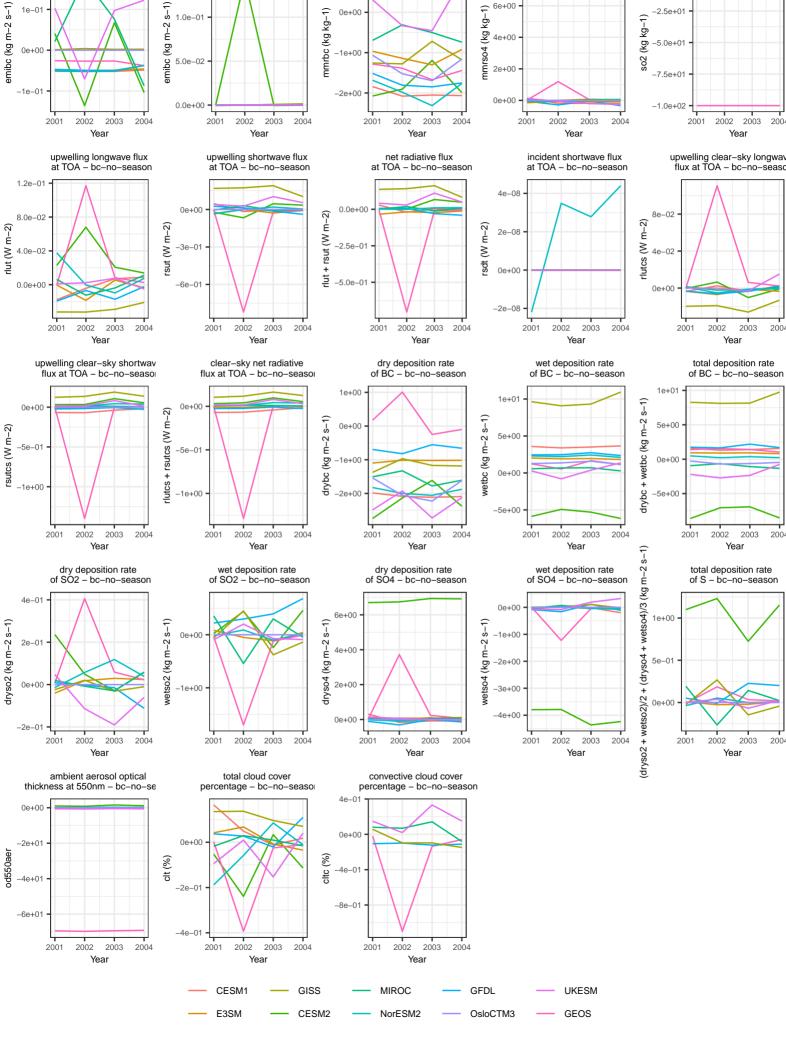
## bc-no-season: absolute difference surface flux of SO2 – bc–no–season surface flux of BC – bc–no–season surface concentration surface concentration of SO4 – bc–no–season surface concentration of SO2 – bc–no–season 1.5e-01 0.0e+00 6e+00 emibc (kg m-2 s-1) mmrbc (kg kg-1) 1.0e-01 so2 (kg kg-1) nmrso4 (kg 4e+00 -5.0e+01 5.0e-02 2e+00 \_7 5e+01 -2e+00 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 longwave flux at TOA - bc-no-seasor net radiative flux at TOA - bc-no-season 4e-08 0.0e+00 rlut + rsut (W m-2) rsut (W m-2) sdt (W m-2) ·lutcs (W 4e-02 -5.0e-01 -6e-01 2003 2003 2002 2003 2002 2003 2001 2002 2004 2001 2002 2001 2001 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 1e+00 1e+01 drybc + wetbc (kg m-2 s-1) 0e+00 lutcs + rsutcs (W m-2) wetbc (kg m-2 s-1) drybc (kg m-2 s-1) 5e+00 0e+00 5e+00 1e+00 0e+00 0e+00 -1e+00 -2e+00 -5e+00 2004 2001 2002 2003 2001 2002 2003 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 (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3 0e+00 6e+00 dryso4 (kg m-2 s-1) wetso2 (kg m-2 s-1) (kg m-2 s-1 0e+00 -1e+004e+00 5e-01 2e+00 -1e+00 0e+00 0e+00 2001 2003 2001 2002 2003 2001 2003 2003 Year Year Year Year total cloud cover convective cloud cover percentage - bc-no-season 4e-01 clt (%) -4e-01



1e-01