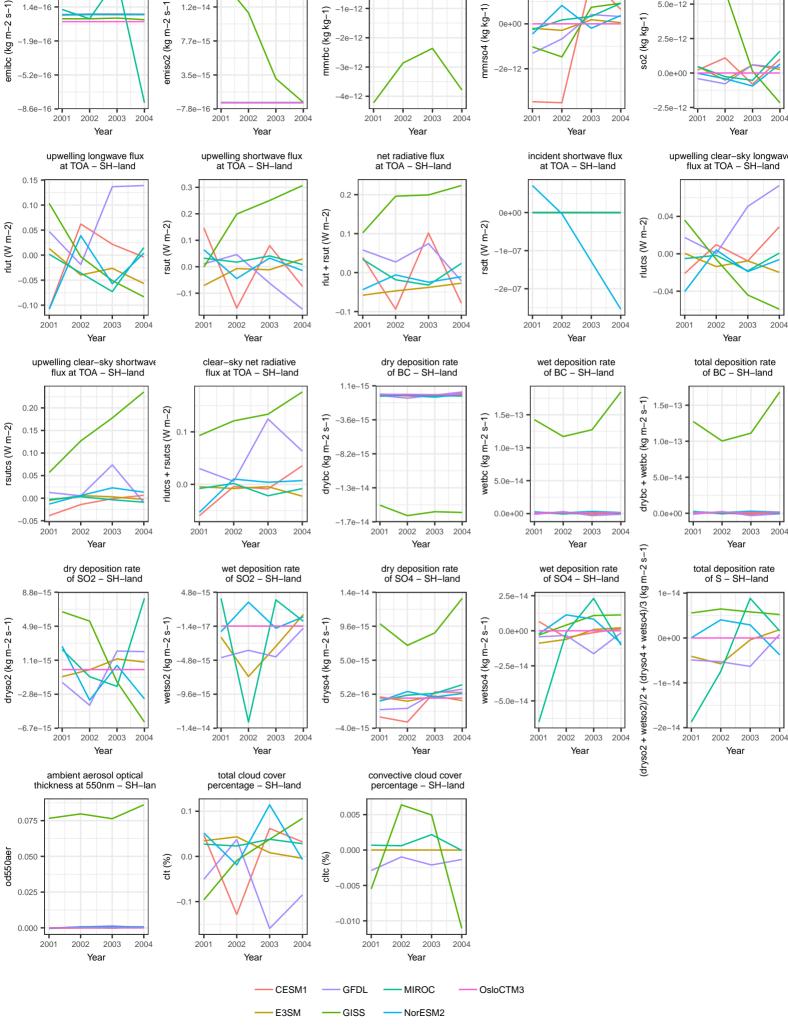
bc-no-season: absolute difference surface flux of SO2 – SH–land surface concentration of BC – SH–land surface flux of BC – SH–land surface concentration of SO4 – SH-land surface concentration of SO2 – SH–land 0e+00 2e-12 emiso2 (kg m-2 s-1) 5.0e-12 nmrbc (kg kg-1) mmrso4 (kg kg-1 so2 (kg kg-1) 0e+00 2.5e-12 0.00+00 2002 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year Year upwelling shortwave flux at TOA – SH–land net radiative flux at TOA – SH–land incident shortwave flux at TOA – SH–land upwelling clear-sky longwave flux at TOA - SH-land 0.2 rlut + rsut (W m-2) rlutcs (W m-2) rsut (W m-2) rsdt (W m-2) 0.1 0.1 0.00 0.0 0.0 -2e-07 -0.04 -0.1 2003 2001 2003 2001 2003 2001 2002 2003 2001 2003 Year Year Year Year Year dry deposition rate of BC – SH–land total deposition rate of BC – SH–land clear-sky net radiative wet deposition rate flux at TOA - SH-land of BC - SH-land drybc + wetbc (kg m-2 s-1 m-2drybc (kg m-2 s-1) -3.6e-15 rlutcs + rsutcs (W 0.1 wetbc (kg m-2 5.0e-14 5.0e-14 0.0 0.0e+00 0.0e+00 2003 2003 2003 2003 2001 2002 2003 2001 2002 2001 2002 2001 2002 Year Year Year Year Year (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3 (kg m-2 s-1)total deposition rate of S – SH–land wet deposition rate of SO4 – SH-land wet deposition rate dry deposition rate of SO2 - SH-land of SO4 - SH-land 4.8e-15 2.5e-14 wetso2 (kg m-2 s-1) dryso4 (kg m-2 s-1) (kg m-2 s-1 9.6e-15 0e+00 5.0e-15 2002 2003 2004 2001 2002 2003 2001 2002 2003 2001 2002 2003 2004 2001 2002 2003 Year Year total cloud cover convective cloud cover percentage - SH-land 0.005 0.000 cltc (%) 0.0 clt (%) -0.005 -0.



4.8e-16