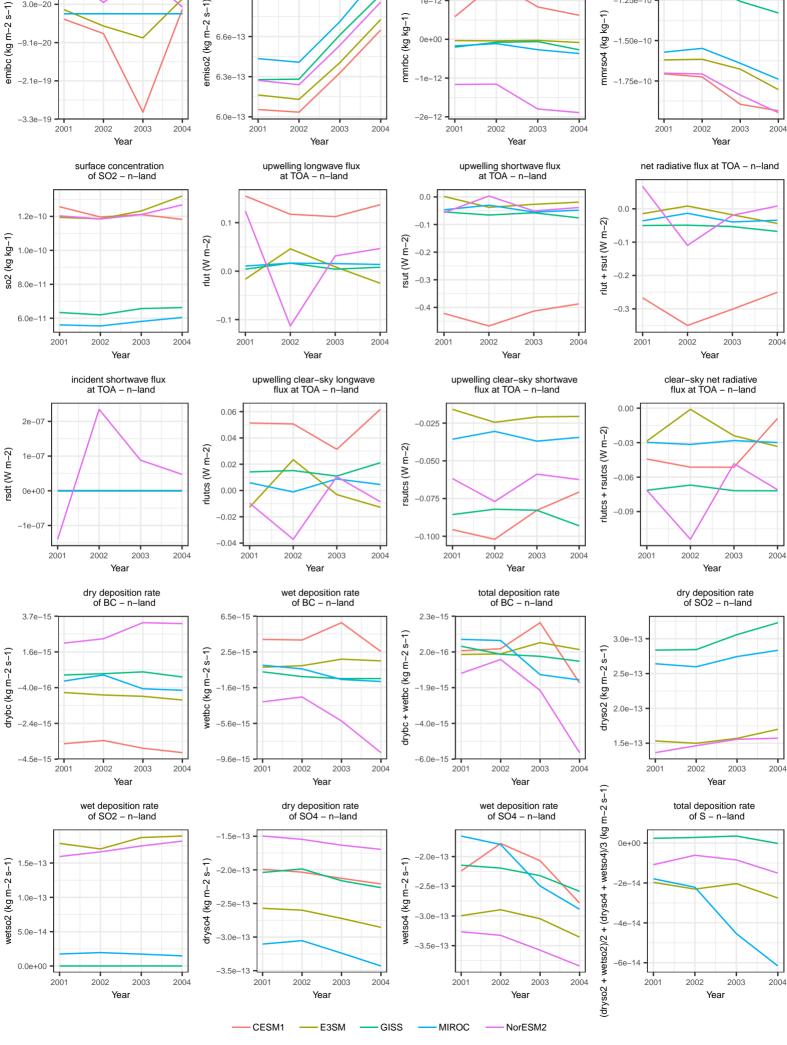
no-so4: absolute difference surface flux of BC - n-land surface flux of SO2 - n-land surface concentration surface concentration of BC - n-land of SO4 - n-land -1.25e-10 emiso2 (kg m-2 s-1) mmrso4 (kg kg-1) mmrbc (kg kg-1) 6.6e-13 0e+00 -1.50e-10 6.3e-13 -1e-12 -1.75e-10 2003 2002 2001 2002 2001 2002 2003 2001 2002 Year Year Year Year upwelling longwave flux at TOA – n–land upwelling shortwave flux at TOA – n–land surface concentration net radiative flux at TOA - n-land of SO2 - n-land 0.0 0.0 0.1 rlut + rsut (W m-2) -0.1 rlut (W m-2) rsut (W m-2) -0.1-0.2 0.0 -0.2 -0.3 -0.4 -0.3 -0. 2002 2003 2001 2001 2002 2003 2001 2002 Year Year Year Year upwelling clear–sky longwave flux at TOA – n–land upwelling clear–sky shortwave flux at TOA – n–land clear-sky net radiative flux at TOA - n-land incident shortwave flux at TOA - n-land 0.00 0.06 -0.025 rlutes + rsutes (W m-2) 0.04 -0.03 rsutcs (W m-2) rlutcs (W m-2) -0.050 0.02 -0.06 0.00 -0.075 -0.09 -0.02 -0.100 -0.04 2004 2004 2001 2002 2003 2001 2002 2003 2002 2003 2004 2001 2002 2003 Year Year Year Year wet deposition rate of BC – n–land total deposition rate of BC – n–land dry deposition rate of SO2 – n–land dry deposition rate of BC – n–land 2.3e-15 6.5e-15 drybc + wetbc (kg m-2 s-1) 3.0e-13 2.0e-16 dryso2 (kg m-2 s-1) wetbc (kg m-2 s-1) 2.5e-13 -1.6e-15 -1.9e-15 2.0e-13 -5.6e-15 -4.0e-15 1.5e-13 -9.6e-15 -6.0e-15 2004 2001 2003 2003 2003 2002 2003 2002 2001 2002 2001 2002 Year Year Year Year wet deposition rate dry deposition rate wet deposition rate total deposition rate of SO2 - n-land of SO4 - n-land of SO4 - n-land of S - n-land -1.5e-13 0e+00 (kg m-2 s-1) wetso4 (kg m-2 s-1) -2.0e-13 -2.5e-13 -3.0e-13 drvso4 -4e-14 -3.0e-13 -3.5e-13



1.5e-19

3.0e-20