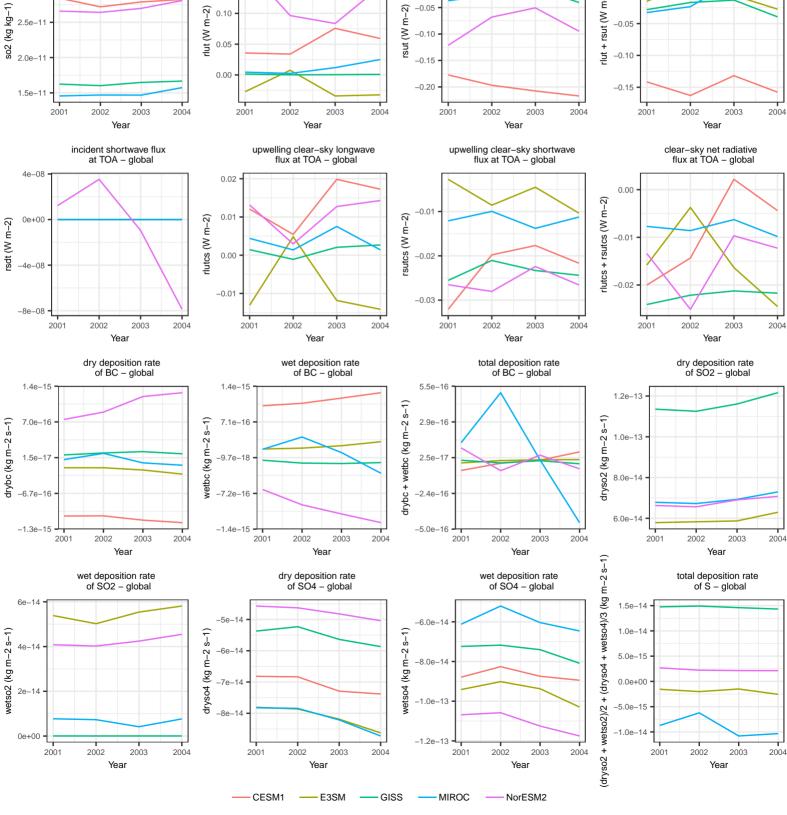
no-so4: absolute difference surface flux of BC - global surface flux of SO2 - global surface concentration surface concentration of BC - global of SO4 - global 2.2e-13 emiso2 (kg m-2 s-1) 2.1e-13 mmrbc (kg kg-1) mmrso4 (kg kg-1) 0e+00 2.0e-13 1.9e-13 -2e-13 -4e-13 1 7e-13 2001 2003 2001 2003 2002 2002 2001 2002 2003 Year Year Year upwelling longwave flux at TOA – global upwelling shortwave flux at TOA – global surface concentration net radiative flux at TOA - global of SO2 - global 0.05 0.00 0.15 0.00 rlut + rsut (W m-2) -0.05 rlut (W m-2) rsut (W m-2) 0.10 -0.05 -0.10 0.05 -0.10 -0.15 0.00 -0.20 -0.152001 2002 2001 2002 2003 2001 2002 Year Year Year upwelling clear-sky longwave flux at TOA - global clear-sky net radiative flux at TOA – global upwelling clear–sky shortwave flux at TOA – global 0.00 rlutes + rsutes (W m-2) -0.01 0.01 rsutcs (W m-2) rlutcs (W m-2) -0.01 0.00 -0.02-0.02 -0.01 -0.03 2004 2004 2004 2003 2001 2002 2003 2001 2002 2003 2001 2002 Year Year Year total deposition rate of BC – global dry deposition rate of SO2 – global wet deposition rate of BC - global 5.5e-16 1.4e-15 drybc + wetbc (kg m-2 s-1) 2.9e-16 dryso2 (kg m-2 s-1) wetbc (kg m-2 s-1) 2.5e-17 6.0e-14 -5 0e-16 2001 2003 2003 2002 2003 2002 2001 2002 2001 Year Year Year dry deposition rate wet deposition rate total deposition rate of SO4 - global of SO4 – global of S - global 1.5e-14 -6.0e-14 1.0e-14 -6e-14 5.0e-15 -8.0e-14 0.0e+00 -7e-14



7.2e-20

4.3e-20

1.5e-20

-1.3e-20

-4.1e-20

3.0e-11

2001

2002

Year

emibc (kg m-2 s-1)