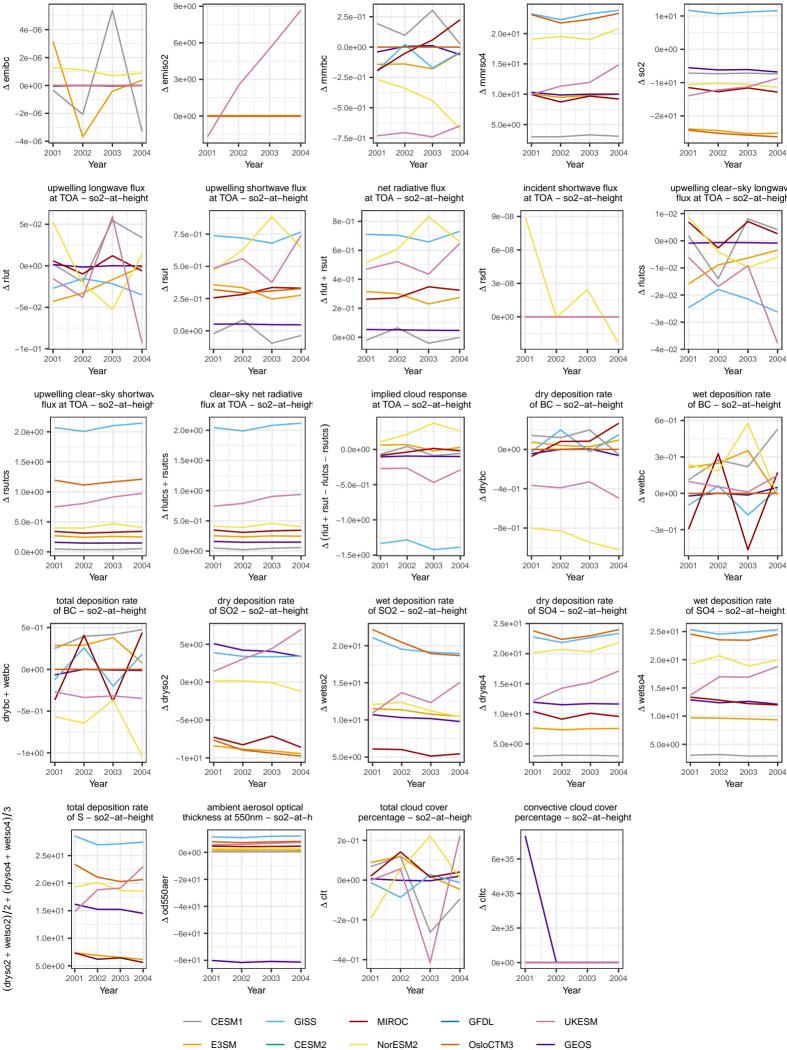
NH-atlantic: absolute difference surface flux of SO2 – so2–at–height surface concentration of SO4 – so2–at–height surface concentration surface concentration of SO2 – so2–at–height 1e+01 2 0e+01 0.0e+00 0e+00 1.5e + 0.1-1e+01 1 00+01 -5.0e-01 -2e+01 -7.5e-01 2003 2002 2003 2003 2002 2003 2002 2001 2002 2001 2001 Year Year Year Year net radiative flux at TOA – so2–at–height upwelling clear-sky longwav flux at TOA - so2-at-heigh upwelling shortwave flux incident shortwave flux at TOA - so2-at-height at TOA - so2-at-height 9e-08 8e-01 6e-01 6e-08 rsut -1e-02 △ rlut + 4e-01 -2e-02 2e-01 0e+00 _3e_02 0e+00 2003 2003 2003 2001 2002 2001 2002 2004 2001 2002 2003 2001 2002 Year Year Year Year clear-sky net radiative implied cloud response dry deposition rate wet deposition rate at TOA - so2-at-height of BC - so2-at-height of BC - so2-at-height 0.0e+003e-01 rlut + rsut - rlutcs -5.0e-01 0e+00-1.0e+00-8e-01 -3e-01 2001 2002 2003 2001 2002 2003 2004 2001 2002 2003 2001 2002 2003 Year Year Year Year dry deposition rate wet deposition rate dry deposition rate wet deposition rate of SO2 - so2-at-height of SO2 - so2-at-height of SO4 - so2-at-height of SO4 - so2-at-height 2.5e+01 2.5e+01 2.0e+01 2.0e+01 ∆ wetso2 1.5e+01 ∆ dryso[∠] 1.5e+01 1.5e+01 1.0e+01 1.0e+01 5.0e+00 5.0e+00 2002 2003 2002 2003 2002 2003 2003 Year Year ambient aerosol optical total cloud cover convective cloud cover percentage - so2-at-heigh percentage - so2-at-height 2e-01 6e+35



surface flux of BC – so2–at–height