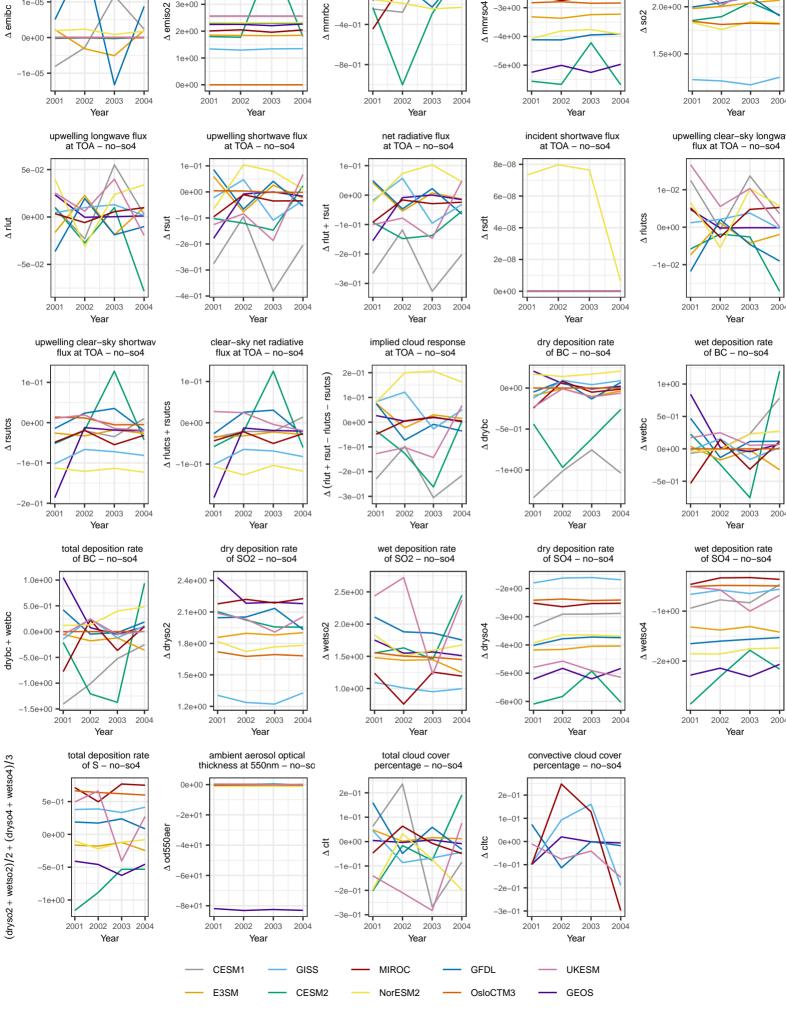
NH-atlantic: absolute difference surface flux of SO2 – no-so4 surface concentration of BC – no–so4 surface flux of BC – no-so4 surface concentration of SO4 – no–so4 surface concentration of SO2 – no–so4 2.5e+00 4e+00 3e+00 -3e+002e+00 1.5e+00 -8e-01 2003 2002 2003 2004 2002 2003 2003 2001 2002 2001 2002 2003 2001 2001 Year Year Year Year Year upwelling shortwave flux at TOA – no–so4 upwelling clear-sky longwav flux at TOA - no-so4 net radiative flux incident shortwave flux at TOA - no-so4 at TOA - no-so4 1e-01 1e-01 8e-08 0e+00 00+00 -1e-01 ∆ rlutcs rsut -1e-01 4e-08 -2e-0 -2e-01 26-08 -1e-02 -3e-01 0e+00 2003 2004 2003 2003 2003 2003 2001 2002 2001 2002 2001 2002 2001 2002 Year Year Year dry deposition rate of BC – no-so4 clear-sky net radiative implied cloud response wet deposition rate flux at TOA - no-so4 at TOA - no-so4 of BC - no-so4 rsutcs 1e-01 1e-01 rsut - rlutcs -0e+00 0e+00 ∆ drybc ∆ rlutcs + -1e-01 0e+00 -1e-01 rlut + r -1e+00 -2e-01-5e-01 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year Year dry deposition rate of SO2 – no–so4 dry deposition rate of SO4 – no-so4 wet deposition rate of SO4 – no-so4 wet deposition rate of SO2 - no-so4 2.4e+00 -2e+00 2.5e+00 -1e+00 2.0e+00 ∆ dryso2 1.8e + 0.0-2e+00 -5e+001.0e + 001.2e+00 2002 2003 2002 2003 2003 2003 2002 2003 Year Year ambient aerosol optical total cloud cover convective cloud cover of S - no-so4 thickness at 550nm - no-so percentage - no-so4 percentage - no-so4 0e+00 2e-01 -2e+01 1e-01 0e+000e+00 -4e+01 -1e-01 -6e+01-2e-01 -8e+01 2002 2003 2002 2002



2e-05

1e-05