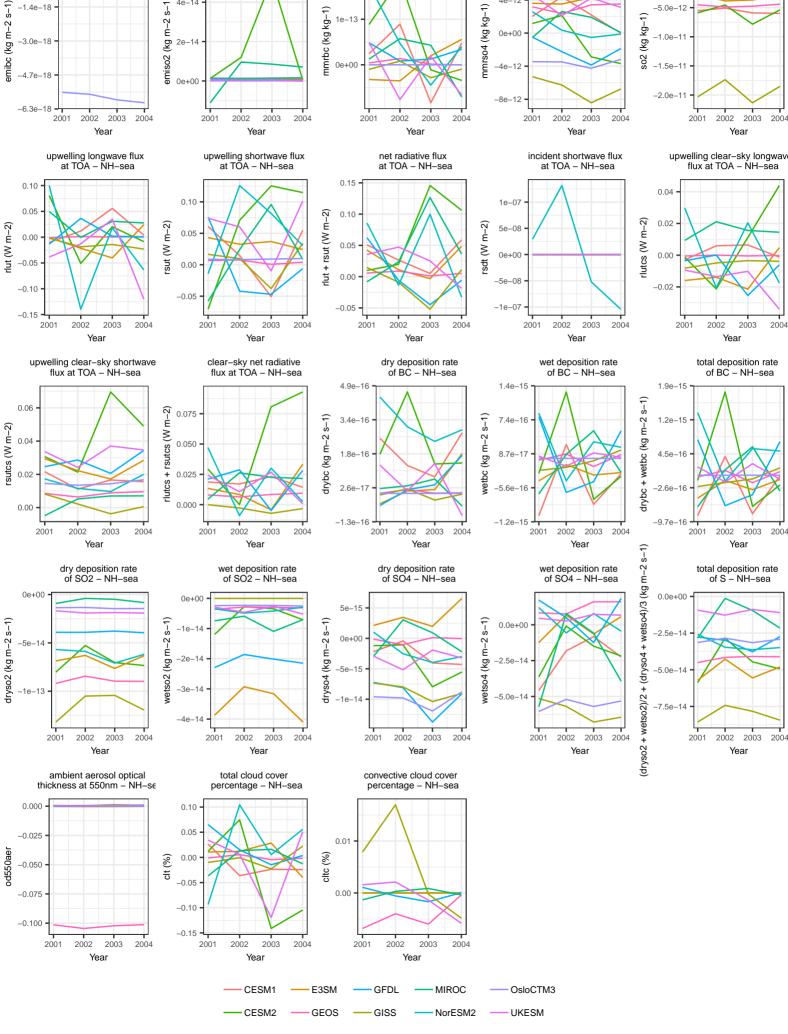
so2-no-season: absolute difference surface flux of SO2 – NH–sea surface concentration of SO2 – NH–sea surface concentration surface concentration of SO4 – NH–sea 0.0e+00 mmrso4 (kg kg-1) mmrbc (kg kg-1) so2 (kg kg-1) emiso2 (kg m-2 0e+00 0e+00 -2.0e-1 2001 2002 2003 2001 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year upwelling shortwave flux at TOA – NH-sea net radiative flux at TOA – NH–sea incident shortwave flux at TOA – NH–sea upwelling clear-sky longwave flux at TOA - NH-sea 0.04 1e-07 rlut + rsut (W m-2) 0.10 rlutcs (W m-2) 0.02 .sdt (W m-2) 0.05 0.05 0e+00 0.00 0.00 -0.02 -0.05 -0.05 2001 2003 2001 2003 2002 2003 2001 2003 Year Year Year Year dry deposition rate of BC – NH–sea wet deposition rate of BC – NH–sea total deposition rate of BC – NH–sea clear-sky net radiative flux at TOA - NH-sea 4.9e-16 1.9e-15 1.4e-15 drybc + wetbc (kg m-2 s-1) rlutcs + rsutcs (W m-2) 0.075 drybc (kg m-2 s-1) wetbc (kg m-2 s-1) 3.4e-16 7.4e-16 1.2e-15 0.050 1.8e-16 0.025 2 66 0.000 2001 2003 2001 2002 2003 2001 2003 2001 2002 2003 Year Year Year Year (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3 (kg m-2 s-1) total deposition rate of S – NH–sea dry deposition rate of SO4 – NH–sea wet deposition rate of SO4 – NH–sea wet deposition rate of SO2 - NH-sea 0.0e + 00dryso4 (kg m-2 s-1) wetso2 (kg m-2 s-1) 0.0e+00 (kg m-2 s-0e+00 -2e-14 wetso4 -3e-14 -4e-14 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 Year Year Year total cloud cover convective cloud cover percentage - NH-sea percentage - NH-sea 0.05 0.01



surface flux of BC – NH–sea