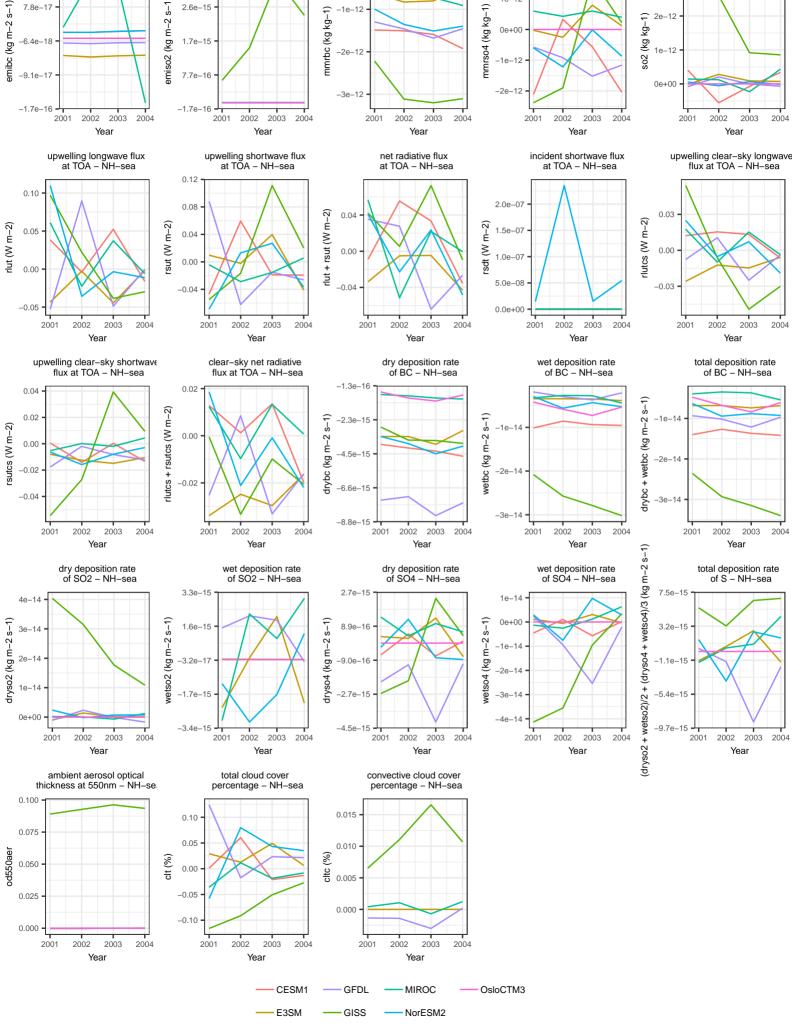
bc-no-season: absolute difference surface flux of SO2 – NH–sea surface concentration surface concentration of SO4 – NH–sea surface concentration of SO2 – NH–sea 3e-12 emiso2 (kg m-2 s-1) mmrbc (kg kg-1) so2 (kg kg-1) mmrso4 (kg 1e-12 0e+00 -2e-12 -3e-12 2001 2002 2003 2001 2002 2003 2001 2002 2003 2001 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 2.0e-07 0.08 rlut + rsut (W m-2) 0.03 0.04 rlutcs (W m-2) rsut (W m-2) sdt (W m-2) 1 5e-07 0.04 0.00 0.00 1.0e-07 0.00 -0.03 -0.04 -0.04 0.0e+00 2001 2003 2001 2003 2001 2003 2001 2002 2003 Year Year Year Year dry deposition rate of BC – NH–sea total deposition rate of BC – NH–sea clear-sky net radiative wet deposition rate flux at TOA - NH-sea of BC - NH-sea -1.3e-16 drybc + wetbc (kg m-2 s-1) rlutcs + rsutcs (W m-2) drybc (kg m-2 s-1) 0.00 wetbc (kg m-2 -0.02 2001 2003 2001 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year wetso4)/3 (kg m-2 s-1) wet deposition rate of SO2 – NH-sea total deposition rate of S – NH–sea dry deposition rate of SO4 – NH–sea wet deposition rate of SO4 – NH–sea 3.3e-15 0e+00 wetso2 (kg m-2 s-1) dryso4 (kg m-2 s-1) wetso4 (kg m-2 s-1) 1.6e-15 8.9e-16 3.2e-15 wetso2)/2 + (dryso4 + -9.0e-16 -5 4e-15 2001 2002 2003 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 (dryso2 + 1 Year Year convective cloud cover percentage – NH–sea total cloud cover percentage - NH-sea 0.015 0.10 0.05 0.010 % 0.00



surface flux of BC – NH–sea