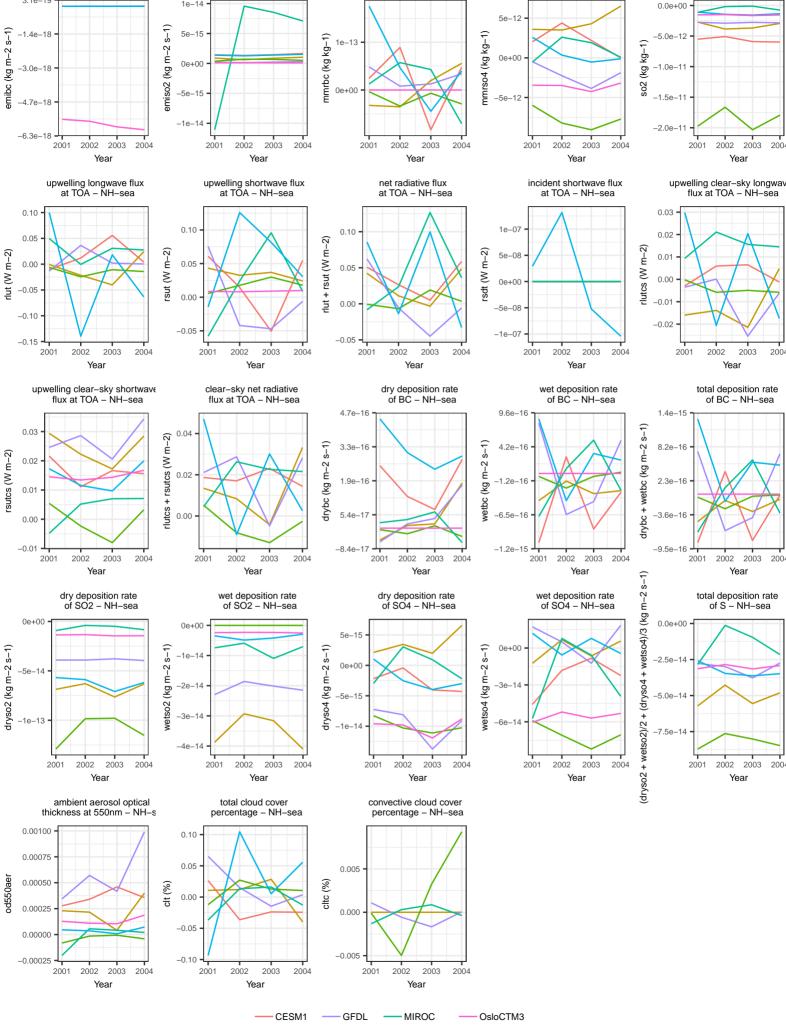
so2-no-season: absolute difference surface flux of SO2 – NH–sea surface concentration of SO2 – NH–sea surface concentration surface concentration of SO4 – NH–sea 0.0e+00 mmrso4 (kg kg-1) -5.0e-12 mmrbc (kg kg-1) so2 (kg kg-1) 0e+00 2001 2002 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year upwelling shortwave flux at TOA – NH-sea incident shortwave flux at TOA – NH–sea upwelling clear-sky longwave flux at TOA - NH-sea net radiative flux at TOA - NH-sea 0.03 1e-07 0.10 0.02 rlut + rsut (W m-2) rlutcs (W m-2) .sdt (W m-2) 0.01 0.05 0.00 0e+00 -0.01 -0.02 -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 clear-sky net radiative total deposition rate flux at TOA - NH-sea of BC - NH-sea 4.7e-16 9.6e-16 1.4e-15 drybc + wetbc (kg m-2 s-1) drybc (kg m-2 s-1) wetbc (kg m-2 s-1) 3.3e-16 8.2e-16 4.2e-16 1.9e-16 2.3e-16 -8 4e-2001 2002 2003 2001 2003 2001 2002 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 wet deposition rate of SO2 - NH-sea of SO4 - NH-sea 0.0e+00 5e-15 dryso4 (kg m-2 s-1) wetso4 (kg m-2 s-1) 0e+00 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 2001 2002 2003 Year Year Year convective cloud cover total cloud cover percentage - NH-sea percentage - NH-sea



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surface flux of BC – NH–sea