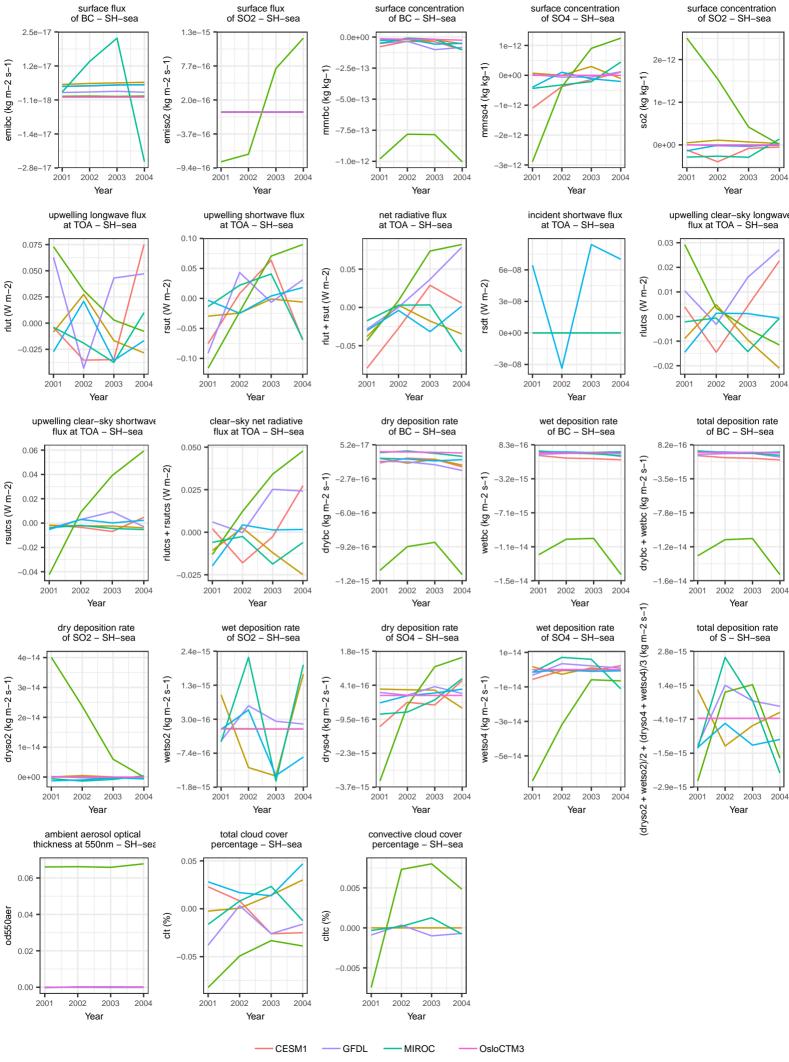
bc-no-season: absolute difference surface flux of SO2 – SH–sea surface concentration surface concentration of SO4 – SH–sea surface concentration of SO2 – SH–sea 0.0e+00 kg-1mmrbc (kg kg-1) 0e+00 so2 (kg kg-1) mmrso4 (kg 16-12 -1e-12 -1.0e-12 2001 2002 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year upwelling shortwave flux at TOA – SH-sea net radiative flux at TOA – SH-sea incident shortwave flux at TOA – SH–sea upwelling clear-sky longwave flux at TOA - SH-sea 0.02 0.05 rlut + rsut (W m-2) 6e-08 rlutcs (W m-2) rsdt (W m-2) 0.01 3e-08 0.00 0.00 0e+00 -0.01 -0.05 -0.02 2003 2001 2003 2001 2003 2003 Year Year Year Year dry deposition rate of BC – SH–sea clear-sky net radiative wet deposition rate total deposition rate flux at TOA - SH-sea of BC - SH-sea of BC - SH-sea 8.2e-16 5.2e-17 8.3e-16 drybc + wetbc (kg m-2 s-1) drybc (kg m-2 s-1) -3.2e-15 -3.5e-15 wetbc (kg m-2 -6.0e-16 -7.8e-15 _9 2e_16 2001 2002 2003 2001 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year + wetso4)/3 (kg m-2 s-1) dry deposition rate of SO4 – SH–sea total deposition rate of S – SH–sea wet deposition rate wet deposition rate of SO2 - SH-sea of SO4 - SH-sea 1.8e-15 2.8e-15 (kg m-2 s-1)dryso4 (kg m-2 s-1) 1.4e-15 (dryso2 + wetso2)/2 + (dryso4 wetso4 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 Year Year convective cloud cover total cloud cover percentage - SH-sea 0.005



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