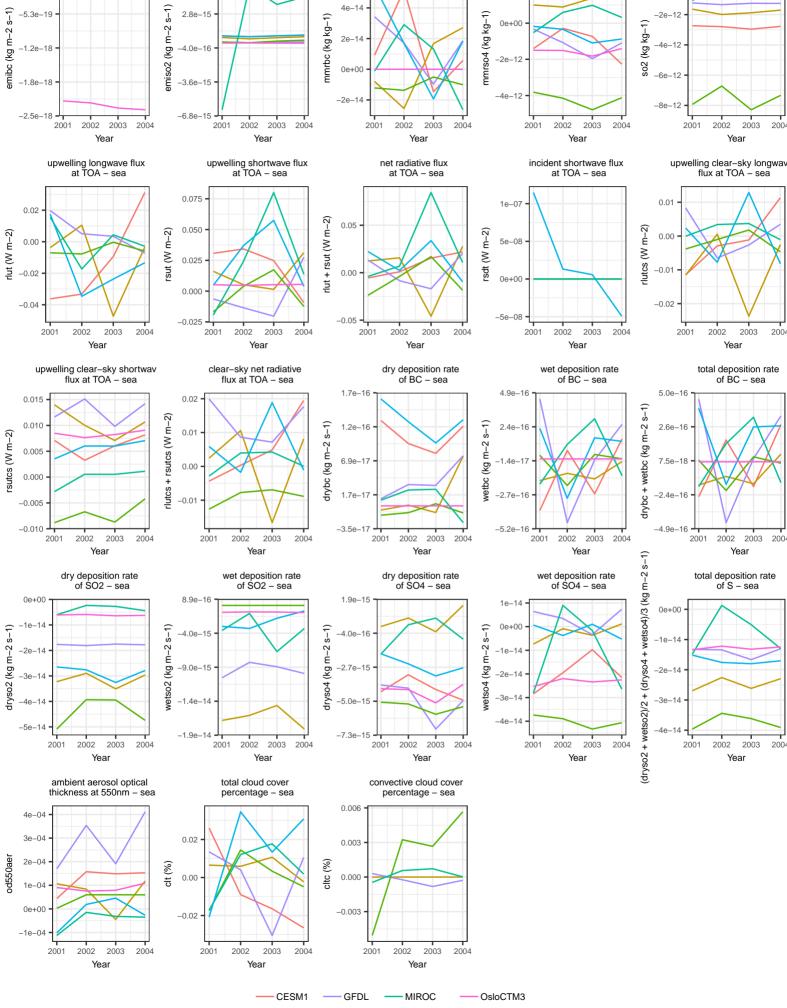
## so2-no-season: absolute difference surface flux of SO2 – sea surface concentration surface concentration of SO4 – sea surface concentration of SO2 – sea mmrbc (kg kg-1) mmrso4 (kg kg-1) 0e+00so2 (kg kg-1) 2e-14 0e+00 -6e-12 -8e-12 2001 2002 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year upwelling shortwave flux at TOA – sea incident shortwave flux at TOA – sea upwelling clear-sky longwave flux at TOA - sea net radiative flux at TOA - sea 0.01 1e-07 rlut + rsut (W m-2) 0.05 rlutcs (W m-2) rsdt (W m-2) 0.00 5e-08 -0.01 0e+00 -0.02 2001 2003 2001 2003 2002 2003 2001 2002 2003 2001 Year Year Year Year clear-sky net radiative dry deposition rate wet deposition rate total deposition rate flux at TOA - sea of BC - sea of BC - sea of BC - sea 4.9e-16 5.0e-16 1.7e-16 drybc + wetbc (kg m-2 s-1) drybc (kg m-2 s-1) wetbc (kg m-2 s-1) 2.6e-16 1.2e-16 2.4e-16 6.9e-17 -5 2e-16 2003 2001 2002 2003 2001 2003 2001 2002 2003 Year Year Year Year wetso2)/2 + (dryso4 + wetso4)/3 (kg m-2 s-1) wet deposition rate dry deposition rate wet deposition rate total deposition rate of SO2 - sea of SO4 - sea of SO4 - sea of S - sea 1.9e-15 1e-14 0e+00 0e+00 wetso4 (kg m-2 s-1) dryso4 (kg m-2 s-1) -2e-14 2001 2002 2003 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 (dryso2 + 1 Year Year convective cloud cover total cloud cover percentage - sea percentage - sea 0.006



E3SM

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NorESM2

surface flux of BC – sea