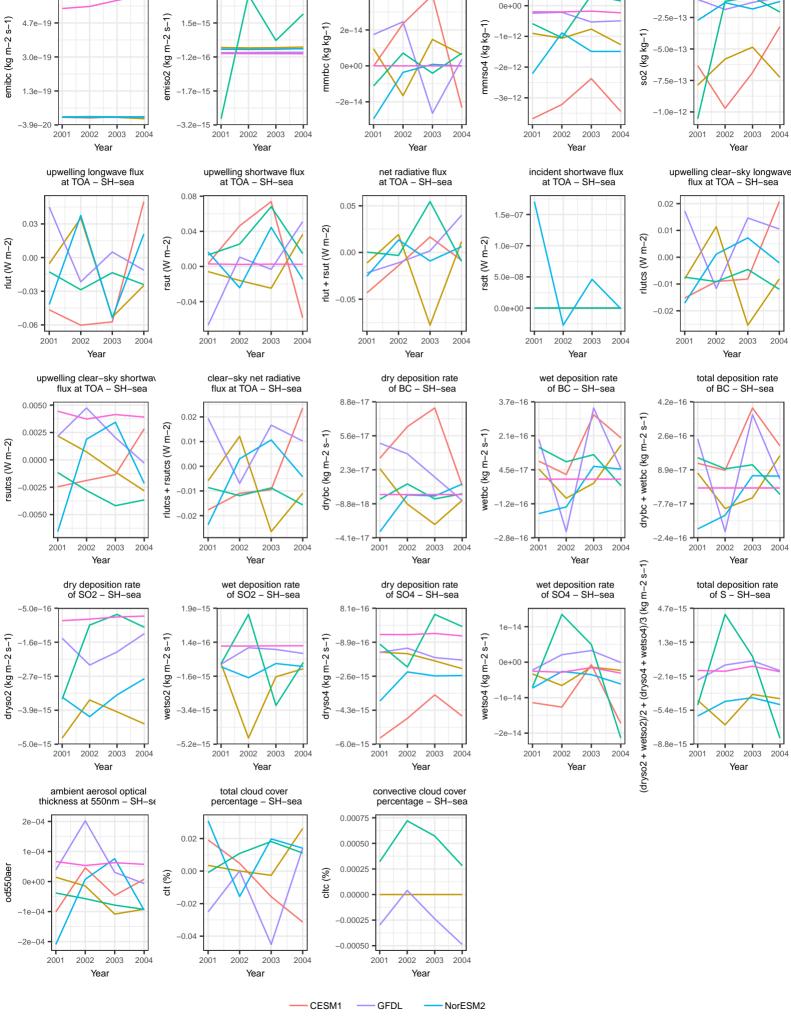
## so2-no-season: absolute difference surface flux of SO2 – SH–sea surface concentration of SO2 – SH–sea surface concentration surface concentration of SO4 – SH–sea 0e+00 emiso2 (kg m-2 s-1) kg-1mmrbc (kg kg-1) so2 (kg kg-1 mmrso4 (kg l -1.2e-16 0e+00 -7.5e-13 -1.0e-12 2001 2002 2003 2001 2002 2003 2001 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 0.08 0.02 0.05 rlut + rsut (W m-2) 0.01 0.04 rlutes (W m-2) rsut (W m-2) sdt (W m-2) 1 0e-07 0.00 0.00 0.00 -0.01 -0.05 \_0 04 0.0e+00 -0.02 2001 2003 2001 2003 2001 2003 2001 2002 2003 Year Year Year Year dry deposition rate of BC – SH–sea wet deposition rate of BC – SH–sea total deposition rate of BC – SH–sea clear-sky net radiative flux at TOA - SH-sea 8.8e-17 3.7e-16 4.2e-16 0.02 drybc + wetbc (kg m-2 s-1) rlutcs + rsutcs (W m-2) drybc (kg m-2 s-1) wetbc (kg m-2 s-1) 2.6e-16 5.6e-17 0.01 0.00 8.9e-17 -0.01 -0.02 2001 2002 2003 2001 2002 2003 2001 2003 2001 2002 2003 Year Year Year Year dry deposition rate of SO4 – SH–sea total deposition rate of S – SH–sea wet deposition rate wet deposition rate (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3 (kg m-2 of SO2 - SH-sea of SO4 - SH-sea 1.9e-15 8.1e-16 4.7e - 15wetso4 (kg m-2 s-1) wetso2 (kg m-2 s-1) dryso4 (kg m-2 s-1) 1.4e-16 -8.9e-16 1.3e-15 0e+00 -1.6e-15 -2.6e-15 2001 2002 2003 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 Year Year convective cloud cover total cloud cover percentage - SH-sea 0.00075 0.02 0.00050 0.00025 0.00



E3SM

MIROC

OsloCTM3

surface flux of BC – SH–sea

6.4e-19