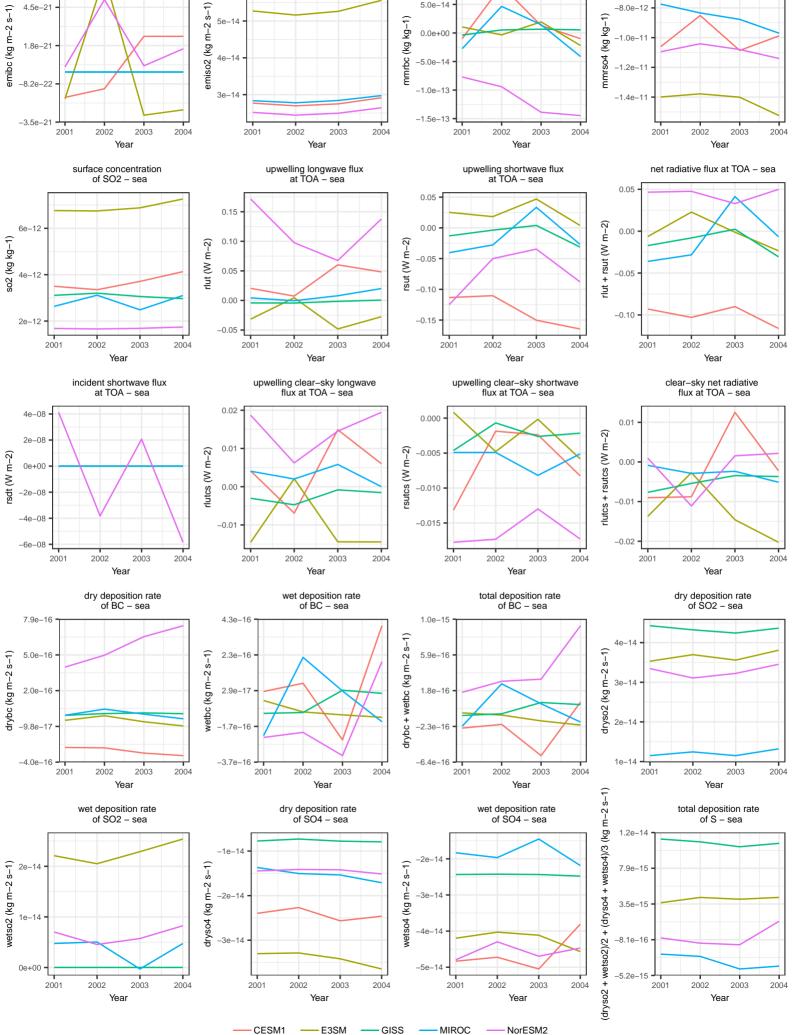
## no-so4: absolute difference surface flux of SO2 - sea surface concentration surface concentration of BC - sea of SO4 - sea 6e-14 5.0e-14 mmrbc (kg kg-1) mmrso4 (kg kg-1) 5e-14 0.0e+00 4e-14 -5.0e-14 -1.0e-13 -1.5e-13 2001 2002 2003 2004 2003 2001 2002 2003 2001 2002 Year Year Year upwelling longwave flux at TOA – sea upwelling shortwave flux at TOA – sea net radiative flux at TOA - sea 0.05 0.05 0.15 rlut + rsut (W m-2) 0.00 0.00 0.10 rsut (W m-2) -0.05 0.05 -0.05 -0.10 0.00 -0.10 -0.15-0.05 2001 2002 2001 2002 2003 2001 2002 2003 Year Year Year upwelling clear-sky longwave flux at TOA - sea upwelling clear-sky shortwave flux at TOA - sea clear–sky net radiative flux at TOA – sea 0.02 0.000 0.01 rlutcs + rsutcs (W m-2) 0.01 rsutcs (W m-2) -0.005 0.00 0.00 -0.010 -0.01 -0.015 -0.01 -0.02 2004 2001 2001 2002 2003 2002 2003 2004 2001 2002 2003 Year Year Year wet deposition rate of BC – sea dry deposition rate of SO2 – sea total deposition rate of BC - sea 1.0e-15 4.3e-16 drybc + wetbc (kg m-2 s-1) 5.9e-16 dryso2 (kg m-2 s-1) 1.8e-16 -3.7e-16 -6 4e-16 1e-14 2001 2003 2004 2001 2003 2004 2001 2003 2002 2002 2002 Year Year Year dry deposition rate wet deposition rate total deposition rate of SO4 - sea of SO4 - sea of S - sea 1.2e-14



surface flux of BC - sea

7.1e-21