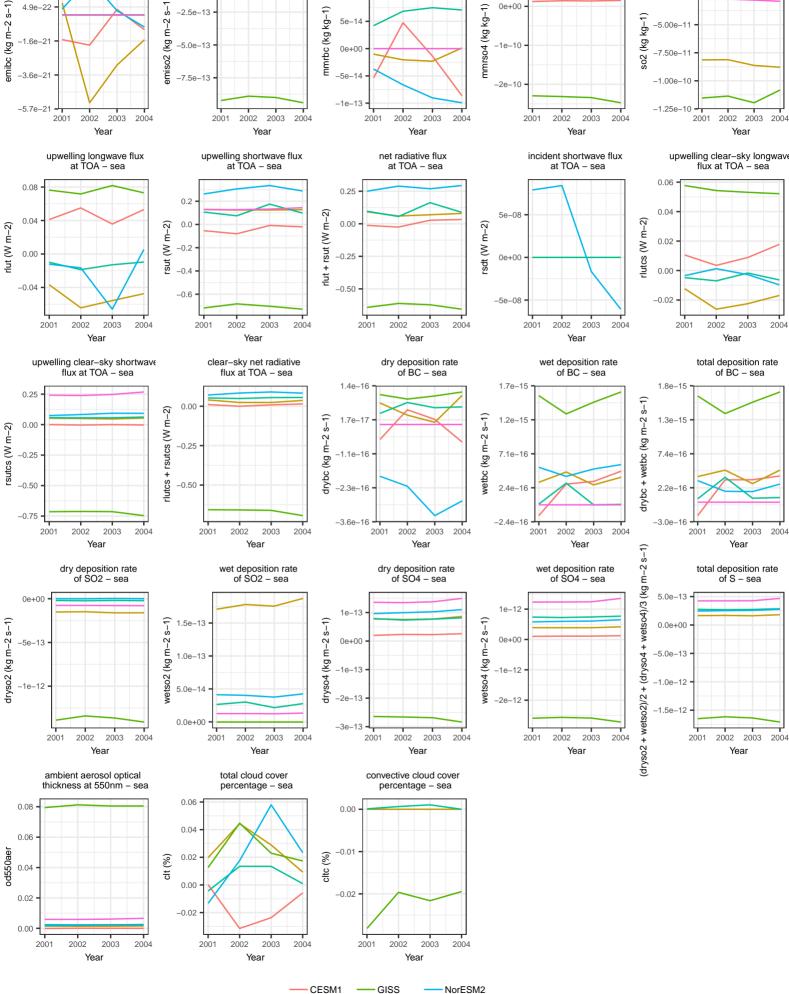
so2-at-height: absolute difference surface flux of SO2 – sea surface concentration of BC – sea surface concentration of SO4 – sea surface concentration of SO2 – sea 0.0e+00 1e-13 -2.50e-11 0e+00 mmrbc (kg kg-1) so2 (kg kg-1) -5.00e mmrso4 (kg 0e+00 -5e-14 -1.00e-10 -1.25e-10 2003 2004 2001 2002 2003 2001 2002 2003 2001 2002 2003 2001 2002 Year Year Year Year upwelling clear-sky longwave flux at TOA - sea net radiative flux incident shortwave flux at TOA - sea at TOA - sea rlut + rsut (W m-2) 0.04 rlutcs (W m-2) 0.00 .sdt (W m-2) 0.02 -0.250e+00 0.00 -0.50 -0.02 -5e-08 2003 2001 2003 2001 2002 2003 2001 2003 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 1.7e-15 1.8e-15 1.4e-16 drybc + wetbc (kg m-2 s-1) drybc (kg m-2 s-1) wetbc (kg m-2 s-1) 1.3e-15 1.2e-15 7.1e-16 7.4e-16 2 4e-16 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year wetso4)/3 (kg m-2 s-1) dry deposition rate of SO4 – sea wet deposition rate of SO2 – sea wet deposition rate total deposition rate of SO4 - sea of S - sea 5.0e-13 dryso4 (kg m-2 s-1) wetso4 (kg m-2 s-1) 0.0e+00 0e+00 (dryso2 + wetso2)/2 + (dryso4 + -1.0e-12 2001 2002 2003 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 Year Year Year Year convective cloud cover total cloud cover percentage - sea percentage - sea 0.00



E3SM

MIROC

OsloCTM3

surface flux of BC – sea