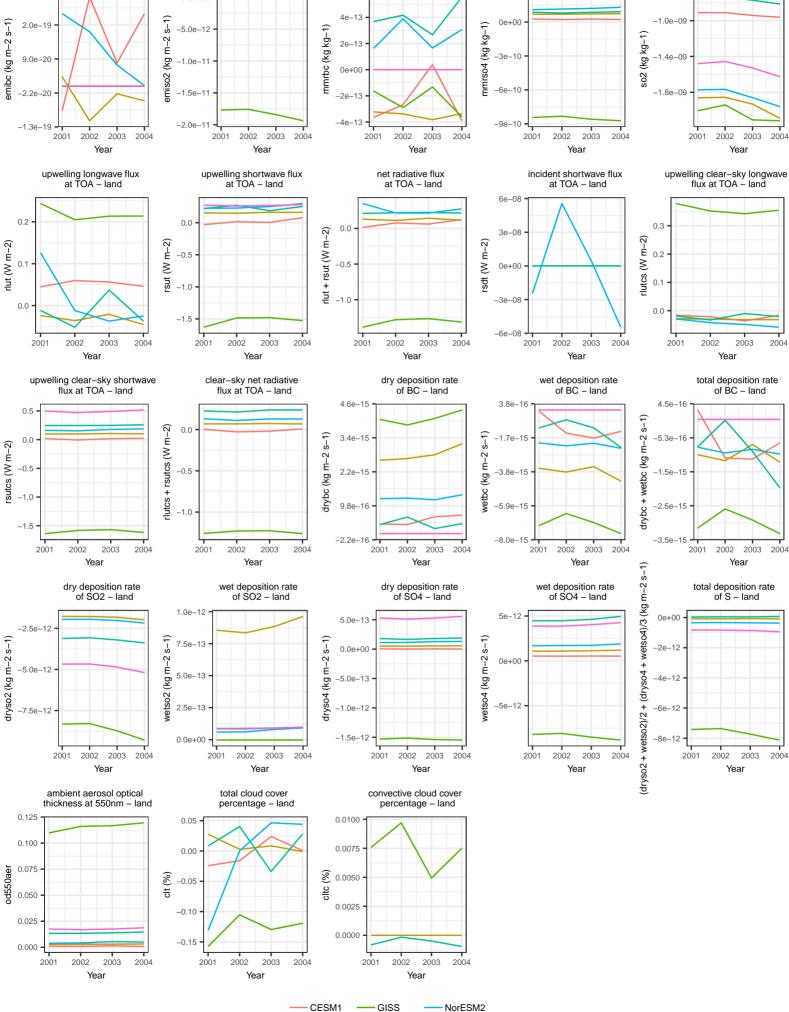
so2-at-height: absolute difference surface flux of SO2 – land surface concentration of BC – land surface concentration of SO4 – land surface concentration of SO2 – land 0.0e+00 0e+00 mmrbc (kg kg-1) so2 (kg kg-1) mmrso4 (kg 0e+00 2001 2002 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year net radiative flux at TOA – land incident shortwave flux at TOA – land upwelling clear-sky longwave flux at TOA - land 6e-08 0.3 0.0 rlut + rsut (W m-2) 3e - 08rlutcs (W m-2) sdt (W m-2) 0.2 0e+00 0.1 -3e-08 0.0 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 - land of BC - land of BC - land of BC - land 4.6e-15 3.8e-16 4.5e-16 drybc + wetbc (kg m-2 s-1) drybc (kg m-2 s-1) wetbc (kg m-2 s-1) 3.4e-15 2.2e-15 9 8e-16 2003 2003 2002 2001 2001 2002 2003 2001 2002 2003 Year Year Year Year (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3 (kg m-2 s-1) total deposition rate of S – land wet deposition rate dry deposition rate wet deposition rate of SO2 – land of SO4 - land of SO4 – land 0e+00 wetso4 (kg m-2 s-1) dryso4 (kg m-2 s-1) 0.0e+00 0e+00 -5.0e-13 4e-12 -6e-12 2001 2002 2003 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 Year Year Year total cloud cover convective cloud cover percentage - land percentage - land 0.0100



E3SM

MIROC

OsloCTM3

surface flux of BC – land