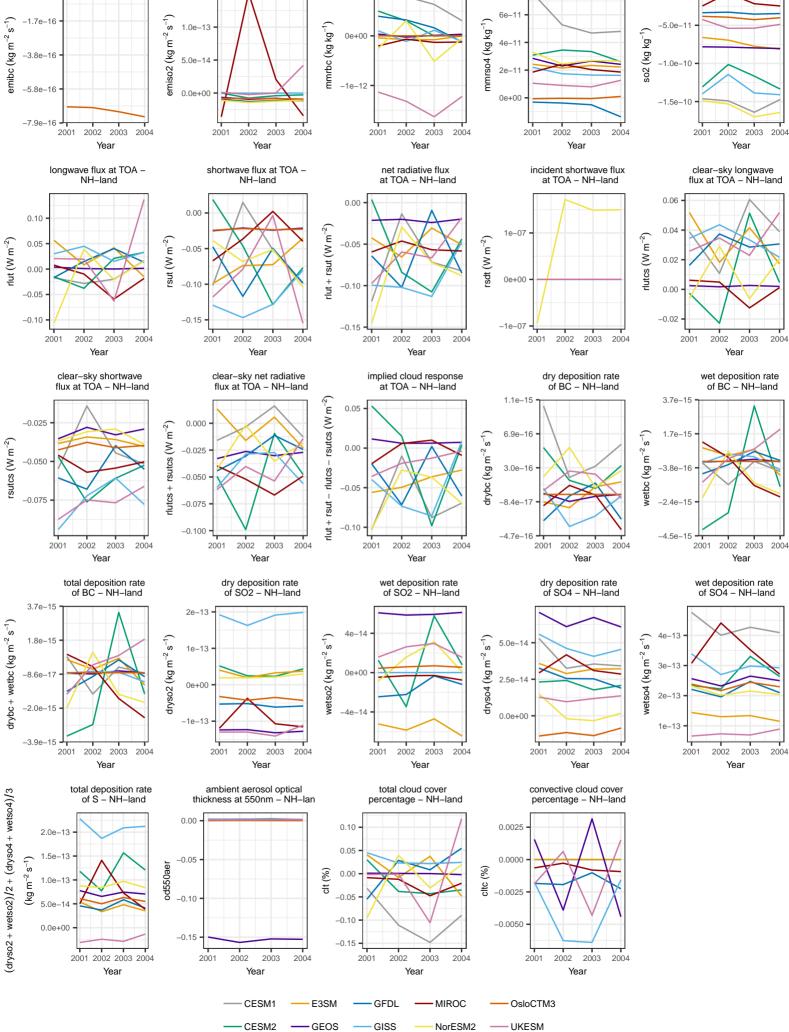
so2-no-season: absolute difference surface flux of SO2 – NH–land surface concentration of BC – NH–land surface concentration of SO4 – NH–land surface concentration of SO2 – NH–land 1.5e-13 emiso2 $(kg m^{-2} s^{-1})$ mmrso4 $(kg kg^{-1})$ nmrbc (kg kg⁻¹ so2 (kg kg⁻¹ 5.0e-14 -1.0e-10 -1e-12 0.0e+00 0e+00 -1.5e-10 2001 2002 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 2004 Year Year Year Year shortwave flux at TOA -NH-land net radiative flux at TOA – NH–land incident shortwave flux at TOA – NH–land clear-sky longwave flux at TOA - NH-land 0.06 0.00 0.00 rlut + rsut $(W m^{-2})$ 0.04 1e-07 $rlutcs \left(W \; m^{-2}\right)$ $rsdt (W m^{-2})$ $rsut (W m^{-2})$ -0.05 -0.05 0.02 -0.10 -0.10 0.00 -0.15 -0.02 -0.15 2001 2003 2001 2002 2003 2001 2003 2001 2003 Year Year Year Year dry deposition rate of BC – NH–land wet deposition rate of BC – NH–land clear-sky net radiative implied cloud response flux at TOA - NH-land at TOA - NH-land 3.7e-15 rlut + rsut – rlutcs – rsutcs (W m $^{-2}$) 1.1e-15 0.05 0.000 rlutcs + rsutcs (W m $^{-2}$) 6.9e-16 $drybc (kg m^{-2} s^{-1})$ wetbc $(kg m^{-2} s^{-1})$ 0.00 -0.025 3.0e-16 -3.8e-16 -0.050 -0.05 -0.10 -0.100 2001 2003 2001 2003 2001 2003 2001 2003 Year Year Year Year dry deposition rate of SO2 – NH–land wet deposition rate of SO2 – NH–land dry deposition rate of SO4 – NH–land wet deposition rate of SO4 – NH–land $dryso2 (kg m^{-2} s^{-1})$ wetso2 $(kg m^{-2} s^{-1})$ wetso4 $(kg m^{-2} s^{-1})$ dryso4 (kg $\mathrm{m}^{-2}~\mathrm{s}^{-1}$ 0e+00 0e+00 0.0e+00 -1e-13 1e-13 2001 2002 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year ambient aerosol optical convective cloud cover total cloud cover thickness at 550nm - NH-lan percentage - NH-land percentage - NH-land 0.00 0.10 0.0025 0.05 -0.05 0.0000 %



surface flux of BC – NH–land