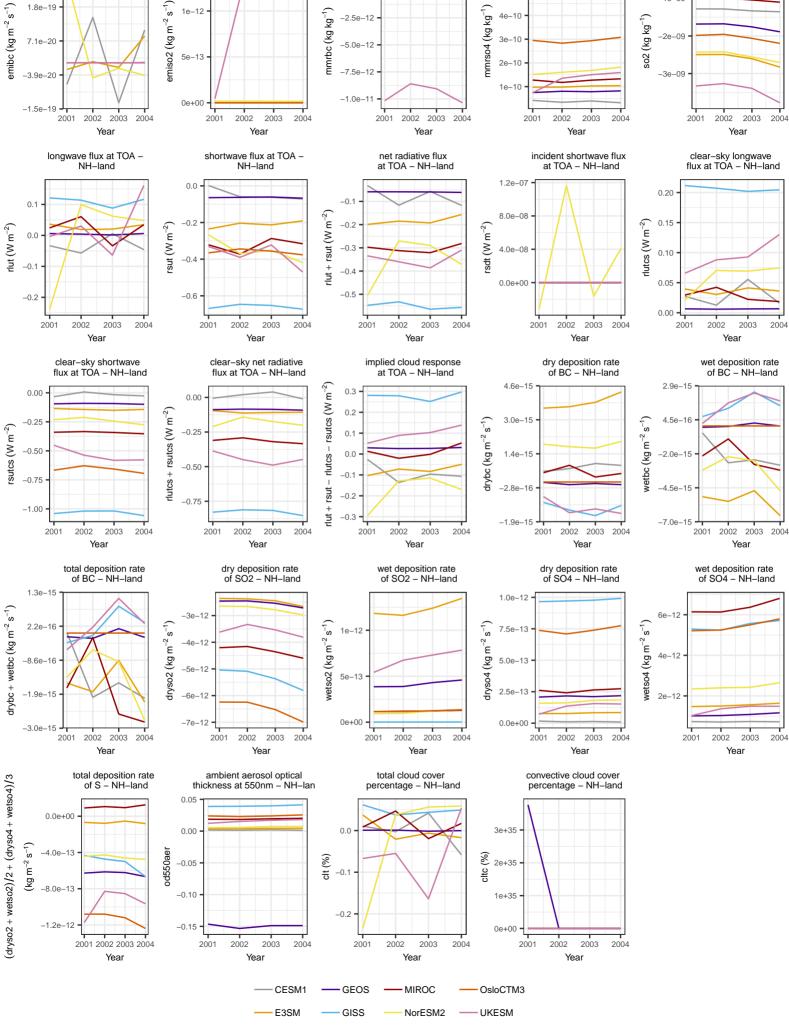
## so2-at-height: absolute difference surface flux of SO2 – NH–land surface concentration of BC – NH–land surface flux of BC surface concentration of SO4 – NH–land surface concentration of SO2 – NH–land NH-land 0.0e+00 \_1e\_09 emiso2 (kg $m^{-2}$ s<sup>-1</sup>, mmrbc (kg kg<sup>-1</sup>) nmrso4 (kg kg<sup>-</sup> so2 (kg kg<sup>-1</sup>) 2002 2003 2001 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year Year net radiative flux at TOA – NH–land incident shortwave flux at TOA – NH–land clear-sky longwave flux at TOA - NH-land shortwave flux at TOA – NH–land 0.20 rlut + rsut $(W m^{-2})$ -0.2 0.15 rlutcs $(W m^{-2})$ $rsut(Wm^{-2})$ $rsdt (W m^{-2})$ -0.30.10 -0.4 -0.4 0.0e+00 0.05 -0.5 -0.6 0.00 2003 2001 2003 2001 2003 2001 2002 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 4.6e-15 2.9e-15 rlutcs - rsutcs (W m<sup>-2</sup>) 0.3 0.00 rlutcs + rsutcs (W m<sup>-2</sup>) 0.2 3.0e-15 $drybc (kg m^{-2} s^{-1})$ wetbc $(kg m^{-2} s^{-1})$ -0.25 0.0 1.4e-15 -0.50 rlut + rsut -0.2 2003 2003 2004 2001 2002 2003 2001 2003 2001 2002 2001 2003 Year Year Year Year dry deposition rate of SO2 – NH–land dry deposition rate of SO4 – NH–land wet deposition rate of SO4 – NH–land wet deposition rate of SO2 - NH-land $dryso2 (kg m^{-2} s^{-1})$ wetso4 $(kg m^{-2} s^{-1})$ wetso2 $(kg m^{-2} s^{-1})$ $dryso4 (kg m^{-2} s^{-1})$ 0.0e+00 2003 2004 2001 2002 2003 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 Year Year ambient aerosol optical total cloud cover convective cloud cover thickness at 550nm - NH-lan percentage - NH-land 0.05 0.00 od550ae -0.05 2e+35 -0.1



1.8e-19