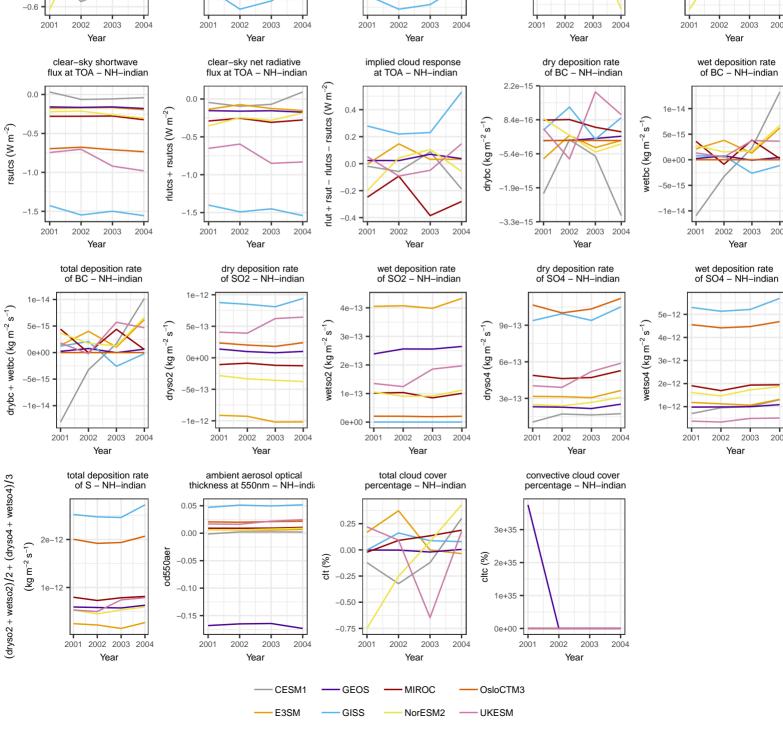
## so2-at-height: absolute difference surface flux of SO2 – NH-indian surface concentration of BC – NH–indian surface concentration of SO4 – NH–indian surface concentration of SO2 – NH-indian 1e-12 0.0e+00 mmrbc (kg kg<sup>-1</sup>) mmrso4 (kg kg¯ so2 (kg kg<sup>-1</sup> 5.0e-10 -1e-12 2.5e-10 2002 2001 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 2004 Year Year Year Year shortwave flux at TOA – NH–indian net radiative flux at TOA – NH-indian incident shortwave flux at TOA – NH–indian clear-sky longwave flux at TOA - NH-indian 0.15 5e-07 0.10 rlut + rsut $(W m^{-2})$ 0.0 rlutcs (W m<sup>-2</sup>) sdt (W m<sup>-2</sup>) 0.05 0e+00 0.00 -5e-07 -0.05 -1e-06 -0.10 2002 2003 2001 2003 2001 2003 2001 2003 Year Year Year Year clear-sky net radiative flux at TOA - NH-indian dry deposition rate of BC – NH–indian implied cloud response wet deposition rate at TOA - NH-indian of BC - NH-indian 2.2e-15 rlut + rsut – rlutcs – rsutcs (W m $^{-2}$ ) 0.4 1e-14 8.4e-16 $drybc (kg m^{-2} s^{-1})$ wetbc $(kg m^{-2} s^{-1})$ 0.2 0.0 2001 2003 2001 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year dry deposition rate of SO4 – NH–indian dry deposition rate wet deposition rate wet deposition rate of SO2 - NH-indian of SO2 - NH-indian of SO4 - NH-indian wetso2 $(kg m^{-2} s^{-1})$ dryso4 (kg $m^{-2} s^{-1}$ wetso4 (kg m<sup>-2</sup> s<sup>-1</sup> 0e+00 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 Year ambient aerosol optical total cloud cover convective cloud cover percentage - NH-indian



surface flux of BC -

NH-indian

Year

longwave flux at TOA – NH–indian

emiso2 (kg m<sup>-2</sup> s<sup>-1</sup>

 $rsut (W m^{-2})$ 

 $\mathrm{emibc}\,(\mathrm{kg}\,\mathrm{m}^{-2}\,\mathrm{s}^{-1})$ 

rlut  $(W m^{-2})$ 

0.0

-0.3

9.1e-21

-8.1e-2

2001 2002 2003