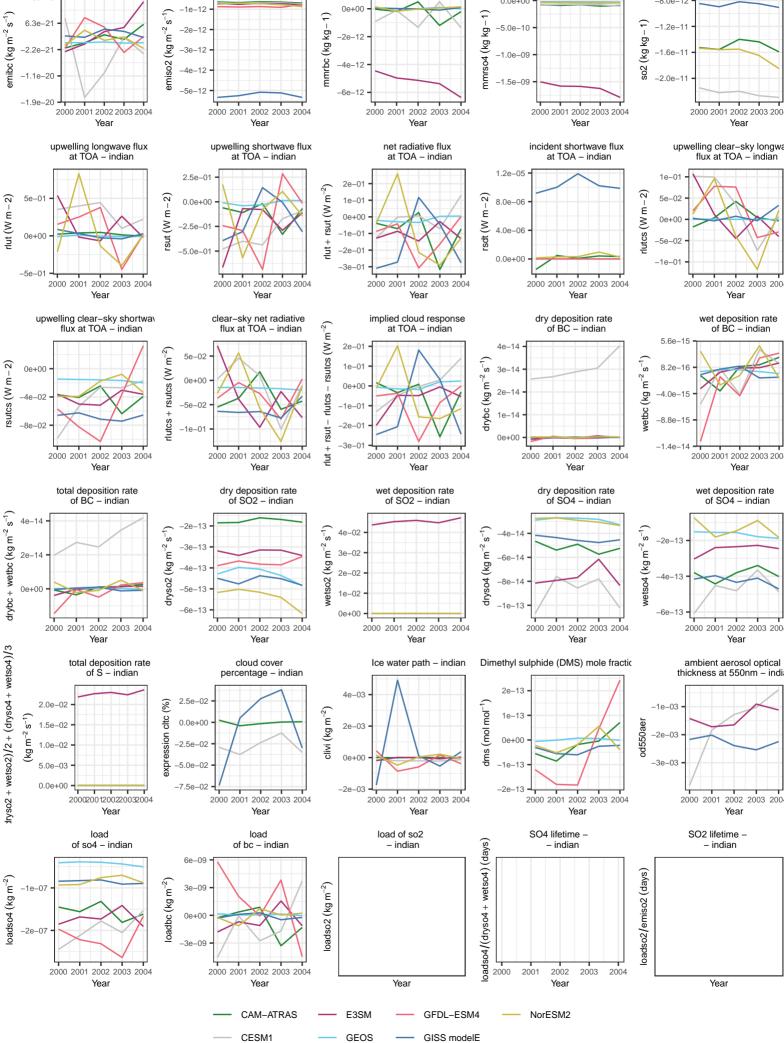
shp-60p-red: absolute difference surface flux of SO2 – indian surface concentration surface concentration of SO4 – indian surface concentration of SO2 – indian 0.0e+00 -8 0e-12 (kg kg - 1)nmrbc (kg kg – 1) (kg kg - 1)-1 2e-11 -1.6e-11 mmrso4 -2.0e-1 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year upwelling shortwave flux at TOA – indian incident shortwave flux at TOA – indian upwelling clear-sky longway flux at TOA – indian net radiative flux at TOA – indian 2e-01 $rsut (W m^{-2})$ rlutcs (Wm-2)5e-02 sdt (Wm-2)0e+00 -2e-0 0.0e + 0.0-1e-01 -3e-01 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 Year Year Year Year clear-sky net radiative flux at TOA - indian implied cloud response dry deposition rate of BC – indian wet deposition rate of BC – indian rsutcs $(W m^{-2})$ at TOA – indian 5.6e-15 wetbc (kg m^{-2} s⁻¹) 1e-0 8.2e-16 drybc (kg m⁻² s⁻ 0e+00 -8 8e-15 rsut-0e+00 rlut + 2002 2003 2004 2000 2001 2002 2003 2004 2002 2003 2004 2000 2001 2000 2001 2002 2003 2004 2000 2001 Year Year Year Year dry deposition rate of SO2 – indian wet deposition rate of SO2 – indian dry deposition rate of SO4 – indian wet deposition rate of SO4 – indian vetso2 (kg $\mathrm{m}^{-2}~\mathrm{s}^{-1}$ dryso4 (kg m $^{-2}$ s $^{-1}$ wetso4 (kg m⁻² s⁻¹ 2e-02 0e+002000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year cloud cover Ice water path - indian Dimethyl sulphide (DMS) mole fractic ambient aerosol optical percentage - indian thickness at 550nm – india -1e-03 _lom lom) smp clivi (kg m⁻²) 1e-13 od550ae 2e-03 0e+00 -3e-03 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year SO4 lifetime SO₂ lifetime load load of so2 of bc - indian indian indian indian wetso4) (days



surface flux of BC – indian

1.5e-20