bc-no-season: absolute difference surface flux of BC – NH–indian surface concentration of SO4 – NH–indian surface concentration of SO2 – NH–indian surface flux of BC – NH–indian of SO2 - NH-indian 2.5e-16 0.0e+00 0e+00 $\mathrm{emibc}\,(\mathrm{kg}\,\mathrm{m}^{-2}\,\mathrm{s}^{-1})$ əmiso2 (kg $\mathrm{m}^{-2}\,\mathrm{s}^{-1}$ mmrso4 (kg kgso2 (kg kg – 1) mmrbc (kg kg – 2.5e-15 -1 6e-16 1.1e-15 -3.0e-16 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year Year upwelling longwave flux at TOA – NH–indian upwelling shortwave flux at TOA – NH–indian upwelling clear-sky longwav flux at TOA - NH-indian net radiative flux incident shortwave flux at TOA – NH-indian at TOA – NH–indian 3e-01 4e-01 1e+00 5e-01 rsut (W m⁻² rlutcs (W m-2) rsut (Wm-2)rsdt (Wm-2)5e-01 0e+00 2e-01 0e+00 -3e-01 0e+00 _5e_01 rlt + -5e-07 -5e-01 0e+00 _6e_0° -1e+00 -1e-06 -1e+002000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 Year Year Year Year Year upwelling clear-sky shortway flux at TOA - NH-indian dry deposition rate of BC – NH–indian clear-sky net radiative flux at TOA - NH-indian implied cloud response at TOA – NH-indian wet deposition rate of BC - NH-indian + rsut - rlutcs - rsutcs (W m⁻²) 0e+00 0e+00 rlutcs + rsutcs (W m $^{-2}$) 2e-01 wetbc $(kg m^{-2} s^{-1})$ drybc (kg m^{-2} s⁻¹ -2e-010e+00 0e+00 -4e-01 -01 -2e-01 -8e-01 를 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year Year total deposition rate of BC – NH-indian dry deposition rate of SO2 – NH–indian wet deposition rate of SO2 – NH–indian dry deposition rate of SO4 – NH–indian wet deposition rate of SO4 – NH–indian 0.0e+00 $drybc + wetbc (kg m^{-2} s^{-1})$ wetso4 $(kg m^{-2} s^{-1})$ $dryso2 (kg m^{-2} s^{-1})$ wetso2 (kg $\mathrm{m}^{-2}\,\mathrm{s}^{-1}$ dryso4 (kg $\mathrm{m}^{-2}\,\mathrm{s}^{-1}$ 0e+00 -1.0e-13 2e-13 0e+00 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year Year total deposition rate of S – NH–indian ambient aerosol optical total cloud cover percentage – NH-indian convective cloud cover (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3thickness at 550nm - NH-inc percentage - NH-indian 0.0e+00 expression cltc (% expression clt (%) -5.0e-02 $(kg m^{-2} s^{-1})$ 0e+00 -1.0e-01 -5e-01 4e-02 -1e+00 20002001200220032004

rlut(Wm-2)

rsutcs (W m-2)

Year

