shp-ind-shift: absolute difference surface flux of BC – NH–indian surface flux surface concentration of BC – NH–indian surface concentration surface concentration of SO2 - NH-indian of SO4 - NH-indian of SO2 - NH-indian 0e+00 1.2e+02 3.5e+01 1e+01 Δ emibc ∆ mmrbc $\Delta so2$ 3.0e+01 0e+00 -8e-06 6.0e+01 6e+00 2.0e+01 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2002 2003 2004 2002 2000 2001 2002 2003 2004 2000 2001 2000 2001 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 at TOA – NH-indian incident shortwave flux at TOA – NH-indian 5.0e-02 0e+00 1.0e + 0.00e+00 7.5e-01 -2e-01 0.0e + 0.0e +ŧ 4e-01 -3e-01 -2 5e-02 2e-01 -4e-0 -5.0e-02 2000 2001 2002 2003 2004 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 dry deposition rate of BC – NH–indian upwelling clear-sky shortwave clear-sky net radiative implied cloud response wet deposition rate flux at TOA - NH-indian flux at TÓA - NH-indian at TOA - NH-indian of BC - NH-indian rsutcs) 5.0e-01 7e-01 rsutcs 4e-01 6e-01 rlutcs -0e+00 ∆ wetbc 5e-01 2e-01 -1e-01 0.0e+00 rsut 0e+00 -2e-01 -2.5e-01 rlut + 3e-01 -3e-01 2e-01 2000 2001 2002 2003 2004 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 dry deposition rate of SO4 – NH-indian wet deposition rate of SO4 – NH–indian total deposition rate of BC – NH–indian dry deposition rate of SO2 – NH–indian wet deposition rate of SO2 – NH–indian 2e-01 4.6e+01 2.6e+01 drybc + wetbc 0e+00 ∆ wetso4 ∆ dryso4 4.5e+01 2.5e+01 1.0e+01 8e+00 4 4e+01 2.4e+01 -4e-01 6e+00 4 4e+01 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year dryso2 + wetso2)/2 + (dryso4 + wetso4)/3Ice water path - NH-indiarDimethyl sulphide (DMS) mole fraction total deposition rate cloud cover ambient aerosol optical of S - NH-indian percentage - NH-indian thickness at 550nm - NH-indian 1.5e+00 4.4e+01 expression cltc (%) 2e+00 1.0e+00 clivi (kg m^{-2}) lom lom) smb 4.4e+01 1 0e-01 ∆ od550aer 1e+00 5.0e-01 4.3e+01 5.0e-02 0.0e+00 4.2e+01 -1e+00 0.0e+00 20002001200220032004 2000 2001 2002 2003 2004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 Year Year Year Year Year load load of so4 - NH-indian of bc - NH-indian 0e+00 5.0e+00 $loadso4 (kg m^{-2})$ 4.5e+00 loadbc (kg m -2e-01 -3e-01 3.5e+00 4e-01 3.0e+002000 2001 2002 2003 2004 2000 2001 2002 2003 2004