shp-80p-red: 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 1e-05 -1.5e+00 -6.0e+00 5.0e-01 _7 0e+00 -2e+01-2.0e+00 ∆ emiso2 ∆ emibc 0e+00 2.5e-01 _8 Oe+OO 0.0e+0.0-9.0e+00 -3e+01 -3.0e+00 -1e-05 -1.0e+01 $-3.5e\pm0.0$ _1 1e+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 upwelling longwave flux at TOA – NH–indian upwelling shortwave flux at TOA – NH–indian net radiative flux at TOA – NH-indian incident shortwave flux at TOA – NH–indian upwelling clear-sky longwave flux at TOA - NH-indian 5.0e-02 5e-01 0e+00 4e-02 4e_01 # 3e-0. ✓ 2e-01 -2e-01 0.0e + 0.0e +∆ rlut -4e-01 0e+00 1e-01 -2 5e-02 -9e-01 0e+00 -6e-01 -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 clear-sky net radiative implied cloud response wet deposition rate upwelling clear-sky shortway flux at TOA - NH-indian flux at TÓA - NH-indian at TOA - NH-indian of BC - NH-indian rsutcs) 4e-01 8e-01 2e-01 -1e-01rsutcs rlutcs --1e-01 4e-01 0e+00 ∆ rsutcs ∆ wetbc △ drybc -2e-0 rsut 0e+00 -2e-01 -4e-01 (rlut + -3e-0 -4e-01 -3e-0 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 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 -1.0e+00-2.0e+00 -1.2e+01 -2.5e+00 -7.0e+00 drybc + wetbc -2.0e+0.0-1.2e+0.1-3.0e+00 0e+00 -3.5e+00 -5e-01 -3.0e+00 -4 0e+00 -1.3e+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 dryso2 + wetso2)/2 + (dryso4 + wetso4)/3total deposition rate Ice water path - NH-indiar Dimethyl sulphide (DMS) mole fraction cloud cover ambient aerosol optical of S - NH-indian percentage - NH-indian thickness at 550nm - NH-indian 1.5e+001e+00 8 -1.2e+01 1.0e+00 -2.5e-02 clivi (kg m⁻²) mol mol expression cltc ∆ od550aer 5.0e-01 -1.2e+01-5.0e-02 0.0e+00 -2e+00-1.2e+01 -3e+00 -1.3e+01 -1.0e-01 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 -1.0e+00 $\log dso4 ~(kg~m^{-2})$ loadbc (kg m -1.5e+00 2.5e-01 0.0e+0.0-2.0e+00 -2.5e-01 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year