## shp-10p-red-1950: absolute difference surface concentration of BC – NH–indian surface flux surface flux surface concentration surface concentration of BC - NH-indian of SO2 - NH-indian of SO4 - NH-indian of SO2 - NH-indian 1e-04 -2e+00 2e-01 -1.1e+00 5e-05 ∆ emiso2 ∆ emibc \_4e+00 0e+00 -1.3e+00 0e+00 -6e+00 -8e-01 -1.5e+00 -8e+00 2002 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2000 2001 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 5.0e-02 2e-01 2e-01 1e-01 3e-01 ∆ rlut + rsut 0e+00 0e+00 0e+00 0.0e + 0.0e +-2e-02 -2 5e-02 -4e-02 -2e-01 -6e-0 -4e-0 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 clear-sky net radiative implied cloud response dry deposition rate wet deposition rate upwelling clear-sky shortwa flux at TOA - NH-indian flux at TÓA - NH-indian at TOA - NH-indian of BC - NH-indian of BC - NH-indian rsutcs) 1.0e-01 5.0e-01 5.0e-02 2e-01 rlutcs rsu 0.0e+00 ∆ wetbc 0e+00 △ drybc 2.5e-01 0e+00 -5 0e-02 -5e-02 rsut 0.0e+00 -01 -2e-01 -1e-01 -1.5e-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 7.5e-01 -2e-010.0e+00 -1.2e+00 5.0e-01 -3e-01 drybc + wetbc -2e-01 -1.2e+002.5e-01 -1.2e+00 -5e-01 0.0e+00 -1.3e+00 -6e-01 -2.5e-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 dryso2 + wetso2)/2 + (dryso4 + wetso4)/3total deposition rate Ice water path - NH-indiaDimethyl sulphide (DMS) mole fraction cloud cover ambient aerosol optical of S - NH-indian percentage - NH-indian thickness at 550nm - NH-indian 1e-01 1.5e+00 -1.0e+00 1.0e+00 5e-02 clivi (kg $m^{-2}$ ) \_lom lom) smp 5e-0° 당 -1.1e+005.0e-01 ∆ od550aer 0e+00 0e+000.0e+0.0-1.2e+00 -5e-02 -5 0e-01 -5e-0° -1.0e+00 -1e-01 -1e+0020002001200220032004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year Year load load of so4 - NH-indian of bc - NH-indian 7.5e-01 5e-01 loadso4 (kg m<sup>-2</sup>) 5.0e-01 oadbc (kg m $^{-2}$ ) 2.5e-01 0e+00 0.0e+00 -5e-01 -2.5e-01 -1e+002000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year