shp-80p-red: absolute difference surface flux surface concentration of BC – global surface flux surface concentration surface concentration of BC - global of SO2 - global of SO4 - global of SO2 - global 1.5e-05 -2.6e+00 -3.5e+00 -2 0e+00 1.0e-05 -2.8e+00-2.2e+00 5.0e-06 -3.0e+00 -2.4e+00 -4.5e+00 0e+00 0.0e+00_3 20+00 -2.6e + 00-5.0e+00 -2.8e+00 -1 0e-05 -3 4e+00 2000 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 longwave flux at TOA – global upwelling shortwave flux at TOA – global incident shortwave flux at TOA – global upwelling clear-sky longwave flux at TOA - global net radiative flux at TOA – global 5.0e-02 6e-03 3e-02 4e-03 -1.0e-01 2e-02 0.0e + 0.0e +ij 2e-03 -1.5e-01 -2 5e-02 -2.0e-01 0e+00 0e+00 -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 upwelling clear-sky shortway clear-sky net radiative implied cloud response dry deposition rate wet deposition rate flux at TOA - global flux at TOA - global at TOA - global of BC – global of BC - global rsutcs) 1.5e-01 -6e-02 -6e-02 rsutcs 1.0e-01 0e+00 rlutcs -∆ rsutcs drybc ∆ wetbc -8e-02 ∆ rlutcs + 5.0e-02 -5e_02 rsut -1e-01 -1e-01-5.0e-02 į 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 wet deposition rate of SO4 – global total deposition rate of BC – global dry deposition rate of SO2 – global wet deposition rate of SO2 – global dry deposition rate of SO4 – global -2.4e+00 -2.5e+00 -2.8e+00 -2.3e+00 -2.8e+00drybc + wetbc ∆ dryso2 -3.0e+00 -3.2e+0.03e-02 -2.4e+00-3.2e+00 -3 6e+00 0e+00 -4.7e+00 -3.5e+00 -2.5e+002000 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 $\frac{dyso2 + wetso2}{2 + (dyso4 + wetso4)/3}$ Dimethyl sulphide (DMS) mole fracti total deposition rate cloud cover Ice water path - global ambient aerosol optical of S - global thickness at 550nm - global -5.0e+00 0.0e+00 1e-01 clivi (kg m⁻²) 0e+00_lom lom) smb -5.1e+00 -2.5e-02 ctc ∆ od550aer 0e+00 expression -5.2e+00 -5.0e-02 -2e-0 -1e-01 -5.3e+00 -7.5e-02 -4e-0'-5.4e+00 20002001200220032004 2002 2003 2004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2000 2001 Year Year Year Year Year load load of so4 - global of bc - global 2e-01 -1.8e+00 $loadso4 (kg m^{-2})$ loadbc (kg m⁻²) 1e-01 0e+00 -2.2e+00-1e-01 -2.5e+00 -2.8e+00 -2e-012000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year