global: absolute difference surface flux of BC – shp–20p–red surface flux of SO2 – shp–20p–red surface concentration surface concentration surface concentration of BC - shp-20p-red of SO4 - shp-20p-red of SO2 - shp-20p-red -9.0e-01 2.0e-05 1e-01 1.5e-05 5e-02 $\Delta so2$ 1.0e-05 0e+00 5.06 -1.2e+00 -6e-∩1 -5e-02 _9e_01 0.0e + 00_1 3e+00 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2002 2003 2004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2000 2001 Year Year Year Year Year upwelling longwave flux at TOA – shp-20p-red upwelling shortwave flux at TOA – shp–20p–red net radiative flux at TOA – shp–20p–red upwelling clear-sky longwave flux at TOA - shp-20p-red incident shortwave flux at TOA – shp–20p–red 5 0e-02 2e-02 1.5e-02 4e-03 rsut 1.0e-02 0e+00 ∆ rsut ∆ rlut + 0.0e + 005 0e-03 2e-03 -2e-02 0.0e+00 -2 5e-02 -4e-02 0e+00 -5.0e-03 -6e-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 - shp-20p-red flux at TOA - shp-20p-red at TOA - shp-20p-red of BC - shp-20p-red of BC - shp-20p-red rsutcs) 6e-02 -1e-02 4e-02 ∆ rlutcs + rsutcs rlutcs -0e+00 ∆ rsutcs △ drybc -2e-02 rsut 0e+00-2e-02 rlut + -2e-02 -3e-02 -3e-022000 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 – shp–20p–red dry deposition rate of SO2 – shp-20p-red wet deposition rate of SO2 – shp–20p–red dry deposition rate of SO4 – shp–20p–red wet deposition rate of SO4 – shp–20p–red 4e-02 -4 5e-01 -6e-01 -1.1e+00 drybc + wetbc -7e-01 2e-02 ∆ dryso2 -1.2e+00 0e+00 -8e-01 -1.2e+00 -6.0e-01 -2e-02 -6.5e-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 dryso2 + wetso2)/2 + (dryso4 + wetso4)/3Ice water path - shp-20p-Dimethyl sulphide (DMS) mole fraction total deposition rate cloud cover ambient aerosol optical of S - shp-20p-red percentage - shp-20p-red thickness at 550nm - shp-20p-red -1.2e+00 1e-01 clivi (kg m⁻²) lom lom) smb 1e-01 8.0e-02 ctc -1.2e+00 0e+00 ∆ od550ae expression 0e+00 -1e-01 -1.3e+00-1.4e+00 0.0e+00 -2e-01 20002001200220032004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 Year Year Year Year Year load load of so4 - shp-20p-red of bc - shp-20p-red -3e-01 1e-01 $loadso4 (kg m^{-2})$ -4e-01 oadbc (kg m⁻²) 0e+00 -6e-01 -1e-01 -7e-01 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year