NH-indian: absolute difference surface flux surface flux surface concentration surface concentration surface concentration of BC - shp-ind-shift-1950 of SO2 - shp-ind-shift-195 of SO2 - shp-ind-shift-195 of BC - shp-ind-shift-1950 of SO4 - shp-ind-shift-195 4e-05 2.0e+02 2e-05 3e_01 4.0e+01 1.5e+02 0e+00 $\Delta so2$ 1 60+01 0e+00 3.5e+01 -2e-051.0e+02 -4e-05 3.0e+01 5.0e+01 1 2e+01 -6e-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 upwelling longwave flux at TOA – shp-ind-shift-195 upwelling shortwave flux at TOA – shp–ind–shift–1950 upwelling clear-sky longwav flux at TOA - shp-ind-shift-1 incident shortwave flux at TOA – shp-ind-shift-19! net radiative flux at TOA - shp-ind-shift-195 5.0e-02 0e+00 0e+00 -1e-02 ∆ rlut + rsut -2e-01 rsut -2e-02 5.0e-01 0.0e + 0.0e +-3e-02 -4e-0 -2 5e-02 2.5e-01 -4e-02 -5e-02 0e+00 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 – shp–ind–shift–1950 upwelling clear-sky shortway clear-sky net radiative implied cloud response wet deposition rate flux at TOA - shp-ind-shift-1 flux at TOA - shp-ind-shift-19 at TOA - shp-ind-shift-195 of BC - shp-ind-shift-195 rsutcs) 3.5e-0 6e-0 3e-01 3.0e-01 rsutcs 5e-01 rlutcs -4e-01 2.5e-01 -2e-01 △ drybc △ wetbc rlutcs+ 2e-01 2.0e-01 2e-01 00+00 rsut 1.5e-0 (rlut + 1e-01 0e+00 -6e-01 1.0e-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 – shp-ind-shift-1950 dry deposition rate of SO2 – shp–ind–shift–195 wet deposition rate of SO2 – shp-ind-shift-195 dry deposition rate of SO4 – shp-ind-shift-19t wet deposition rate of SO4 – shp-ind-shift-195 1.6e+01 1.8e + 0.13.5e+01 drybc + wetbc 5e-01 1.5e+01 1.5e+01 dryso2 dryso4 wetso4 1.8e+01 1.4e+01 1.4e + 0.11.8e+01 0e+00 1.3e+01 1.7e+01 3.4e+01 1.2e+01 -5e-01 1.2e + 0.12000 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-ind-Smiflethyl sulphide (DMS) mole fraction - shr total deposition rate cloud cover ambient aerosol optical of S - shp-ind-shift-19 percentage - shp-ind-shift-19 thickness at 550nm - shp-ind-shift-1 3e+00 1e+00 8 3.5e+01 clivi (kg ${\sf m}^{-2}$) _lom lom) smb expression cltc 2e+00 ∆ od550aeı 3.4e+0.10e+00 5e-02 1e+00 3.4e+01 0e+00 0e+00 -1e+00 -1e+00 3.4e+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-ind-shift-1956 of bc - shp-ind-shift-1950 2.5e-01 $\log dso4 \, \left(kg \; m^{-2} \right)$ 8e+00 oadbc (kg m⁻² 0.0e+00 7e+00 6e+00 -2.5e-01 5e+00 -5.0e-01 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004

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