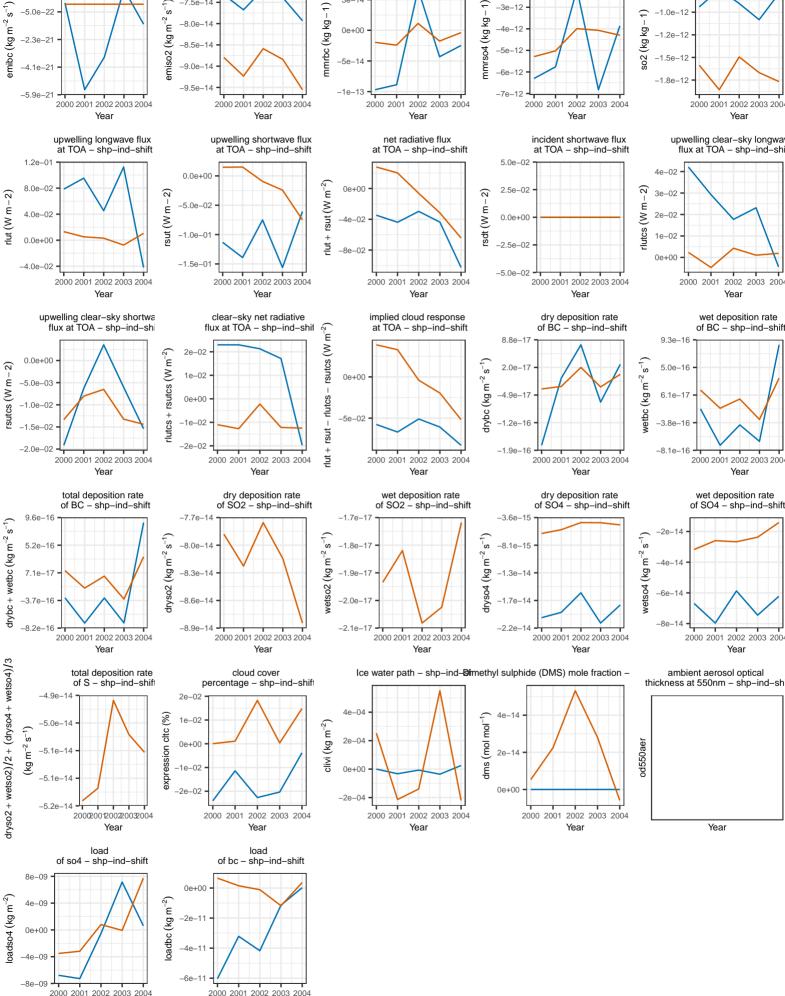
NH-sea: absolute difference surface flux of SO2 – shp–ind–shift surface concentration surface concentration surface concentration of BC - shp-ind-shift of SO4 - shp-ind-shift of SO2 - shp-ind-shift nmrbc (kg kg – 1) -1.0e-12 mmrso4 (kg kg so2 (kg kg – 0e+00 2000 2001 2002 2003 2004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2000 2001 2002 2003 2004 Year Year Year Year upwelling shortwave flux at TOA – shp-ind-shift upwelling clear-sky longwav flux at TOA - shp-ind-shift incident shortwave flux at TOA – shp-ind-shift net radiative flux at TOA - shp-ind-shift 5 0e=02 $rsut(W m^{-2})$ 0e+00 3e-02 rsdt (Wm-2)rlutcs (W m -2e-02 0.0e + 0.01e-02 -2 5e-02 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year clear-sky net radiative implied cloud response dry deposition rate wet deposition rate flux at TOÁ - shp-ind-shif at TOA - shp-ind-shift of BC - shp-ind-shift of BC - shp-ind-shift rsutcs (W m^{-2}) 8.8e-1 2.0e-17 wetbc (kg ${\sf m}^{-2}\,{\sf s}^{-1}$ 5.0e-16 drybc (kg $m^{-2} s^{-1}$ 1e-02 0e+00 rlutcs -0e+00 rsut – -3.8e-16 rt H _1 9e_16 -8.1e-16 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year dry deposition rate of SO4 – shp–ind–shift dry deposition rate of SO2 – shp-ind-shift wet deposition rate of SO2 – shp-ind-shift wet deposition rate of SO4 – shp-ind-shift -3.6e-15 wetso2 (kg $\mathrm{m}^{-2} \mathrm{s}^{-1}$ wetso4 (kg m^{-2} s⁻¹ $(kg m^{-2} s^{-}$ drvso4 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Ice water path - shp-ind-simethyl sulphide (DMS) mole fraction cloud cover ambient aerosol optical thickness at 550nm - shp-ind-shif percentage - shp-ind-shift clivi (kg m⁻²) _lom lom) smb 2e-04 od550aer 2e-14 0e+00 0e+00 -2e-042002 2003 2004 2000 2001 2002 2003 2004 2002 2003 2004 2000 2001 2000 2001 Year Year Year Year load of bc - shp-ind-shift



surface flux of BC – shp–ind–shift

Year