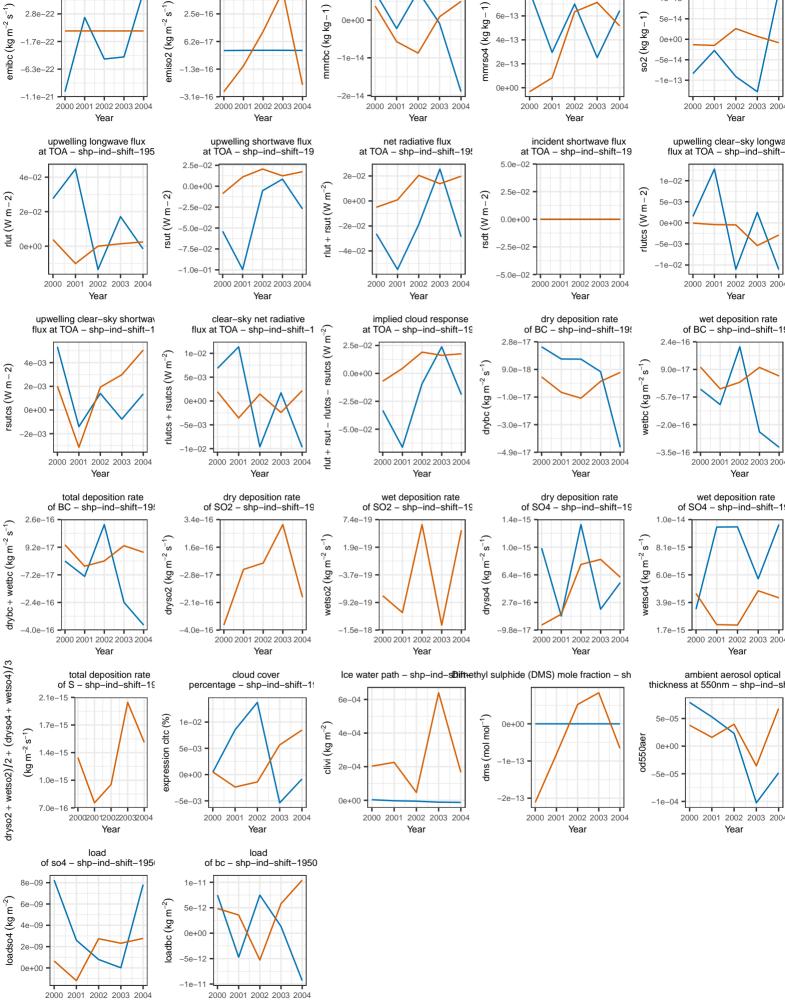
SH-sea: absolute difference surface flux surface concentration surface concentration surface concentration of SO2 - shp-ind-shift-19 of BC - shp-ind-shift-195 of SO4 - shp-ind-shift-195 of SO2 - shp-ind-shift-198 1e-13 nmrbc (kg kg - 1)so2 (kg kg – 1) nmrso4 (kg kg 4e-13 2e-13 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year upwelling shortwave flux at TOA – shp–ind–shift–19 net radiative flux at TOA – shp-ind-shift-198 upwelling clear-sky longway flux at TOA - shp-ind-shift-1 incident shortwave flux at TOA – shp-ind-shift-19 5.0e-02 2e-02 $rsut(W m^{-2})$ lutcs (Wm-2)(Wm-2)0e+00 0.0e + 0.00e+00 -2e-02 rsdt -2 5e-02 4e-02 -1e-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 implied cloud response dry deposition rate wet deposition rate clear-sky net radiative flux at TOA - shp-ind-shift-1 at TOA - shp-ind-shift-19 of BC - shp-ind-shift-19 of BC - shp-ind-shift-19 rsutcs (W m^{-2}) 2.8e-1 1e-02 9.0e-18 9.0e-17 drybc (kg $m^{-2} s^{-1}$ vetbc (kg m⁻² s⁻ 0.0e + 0.0e +5e-03 0e+00 rlutcs -3.0e-17 -5.0e-02 _4 9e_1 rit + 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 SO2 – shp–ind–shift–19 wet deposition rate of SO2 – shp-ind-shift-19 dry deposition rate of SO4 – shp-ind-shift-19 wet deposition rate of SO4 – shp-ind-shift-19 3.4e-16 1.0ewetso2 (kg m^{-2} s⁻¹ dryso4 (kg m⁻² s⁻¹ 1.6e-16 wetso4 $(kg m^{-2})$ -3.7e-19 6.4e-16 6.0e-15 2.7e-16 3.9e -9.8e-1 1.7e-15 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Ice water path - shp-ind-stbifthethyl sulphide (DMS) mole fraction - sh cloud cover ambient aerosol optical percentage - shp-ind-shift-19 thickness at 550nm - shp-ind-shi 0e+00 clivi (kg ${\sf m}^{-2}$) _lom lom) smb 4e-04 od550aer 0e+00 20-04 -5e-05 0e+00 2000 2001 2002 2003 2004 2002 2003 2004 2002 2003 2004 2002 2003 2004 2000 2001 2000 2001 2000 2001 Year Year Year Year load of bc - shp-ind-shift-1950



surface flux

of BC - shp-ind-shift-19

Year

Year