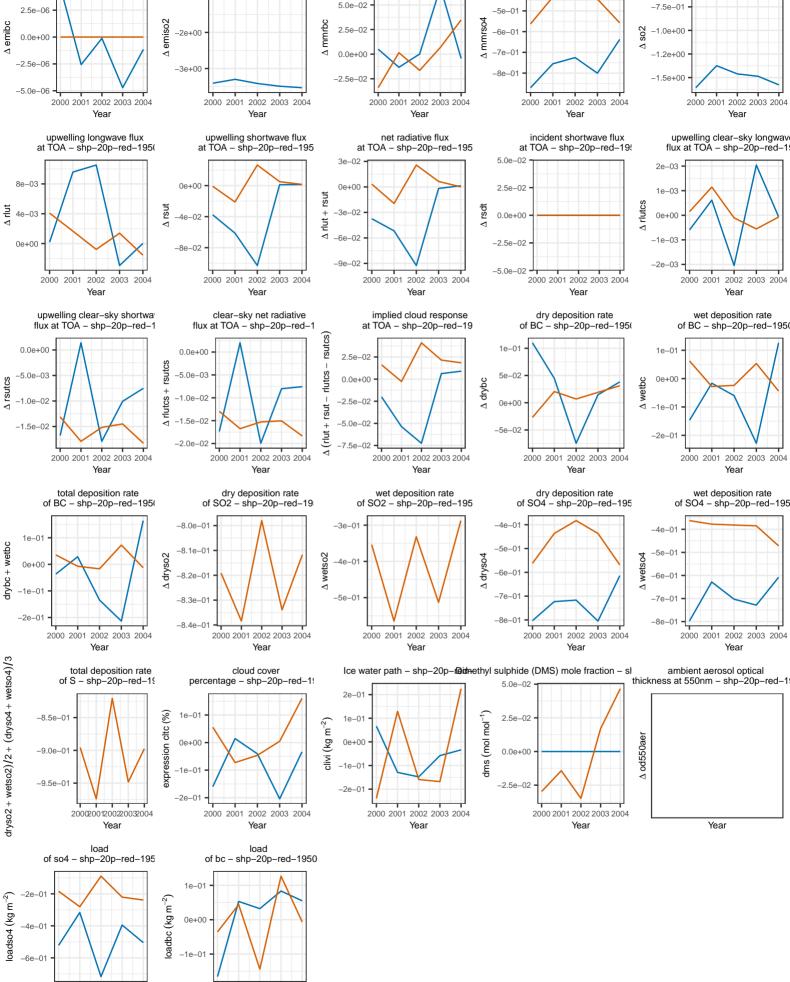
sea: absolute difference surface flux surface concentration surface concentration surface concentration of SO2 - shp-20p-red-195 of SO2 - shp-20p-red-19 of BC - shp-20p-red-195 of SO4 - shp-20p-red-195 -5.0e-01 -1e+00 5.0e-02 -7.5e-01 -5e-01 2.5e-02 -1.0e+00 -7e-01 0.0e+00 -1.2e+00 -8e-01 -02 -1.5e+00 2002 2003 2004 2000 2001 2002 2003 2004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2000 2001 Year Year Year Year upwelling shortwave flux at TOA – shp-20p-red-195 incident shortwave flux at TOA – shp–20p–red–19! upwelling clear-sky longwav flux at TOA - shp-20p-red-1 net radiative flux at TOA - shp-20p-red-195 5.0e-02 2e-03 0e+00 1e-03 rsut -3e-02 0.0e + 000e+00Δ rlut μ -6e-02 -2 5e-02 -9e-02 -2e-03 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 at TOA - shp-20p-red-19 of BC - shp-20p-red-1950 of BC - shp-20p-red-1950 rsutcs) 1e-01 2.5e-02 0e+00 0.0e+00 △ drybc -2.5e-02 0e+00 rsut -1e-01 -5e-02 -2e-01 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–20p–red–19 wet deposition rate of SO2 – shp–20p–red–195 dry deposition rate of SO4 – shp–20p–red–195 wet deposition rate of SO4 – shp-20p-red-195 -3e-0 -4e-01 -5e-01 -5e-01 -6e-01 -7e-01 -5e-01 -8e-01 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-20p-rainethyl sulphide (DMS) mole fraction - sl cloud cover ambient aerosol optical thickness at 550nm - shp-20p-red-1 2e-01 1e-01 2.5e-02 $(kg m^{-2})$ lom lom) smb ∆ od550aeı 0e+00 0.0e+00 cli∶ -1e-01-2.5e-02 -2e-01 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 Year Year Year Year



surface flux

of BC - shp-20p-red-195

2000 2001 2002 2003 2004

Year

5.0e-06

2000 2001 2002 2003 2004