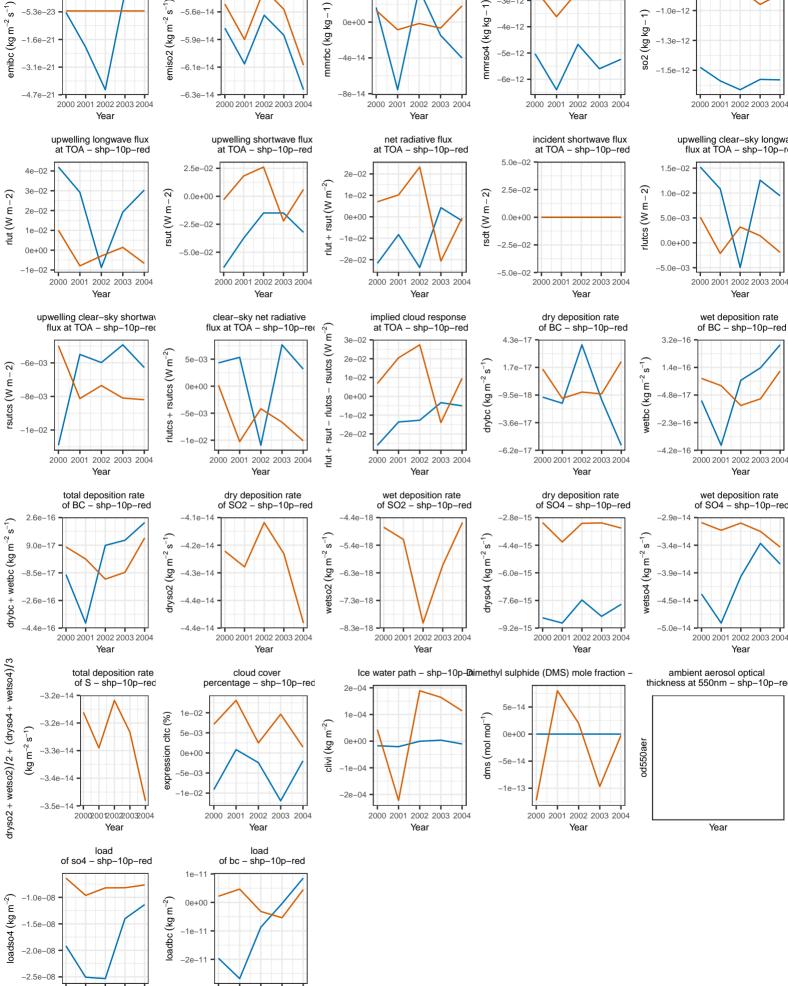
sea: absolute difference surface flux of SO2 – shp–10p–red surface concentration surface concentration surface concentration of BC - shp-10p-red of SO4 - shp-10p-red of SO2 - shp-10p-red nmrbc (kg kg-1) -1.0e-12 mmrso4 (kg kg 0e+00 so2 (kg kg – -5e-12 -6e-12 2000 2001 2002 2003 2004 2002 2003 2004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2000 2001 Year Year Year Year upwelling shortwave flux at TOA – shp–10p–red upwelling clear–sky longwa flux at TOA – shp–10p–re incident shortwave flux at TOA – shp–10p–red net radiative flux at TOA - shp-10p-red 5 0e=02 1.5e-02 2e-02 $rsut(W m^{-2})$ 1e-02 (Wm-2)rlutcs (W m-0e+00 0.0e + 0.05 0e-03 rsdt -1e-02 0.0e+00 -2 5e-02 -2e-02 -5.0e-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 flux at TOÁ - shp-10p-red at TOA - shp-10p-red of BC - shp-10p-red of BC - shp-10p-red rsutcs (W m^{-2}) 3.2e-16 3e-02 2e-02 1.4e-16 drybc (kg $m^{-2} s^{-1}$ 1e-02 wetbc (kg m⁻² rlutcs -0e+00 -1e-02 rsut -2e-02 _6 2e_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 SO4 – shp–10p–red wet deposition rate of SO4 – shp–10p–red dry deposition rate of SO2 – shp–10p–red wet deposition rate of SO2 – shp–10p–red -2.8e-15 -2.9e-14 wetso2 (kg m^{-2} s⁻¹ dryso4 (kg m^{-2} s⁻ wetso4 $(kg m^{-2})$ -6.3e-18 -6.0e-15 -3.9e-14 -8.3e--9.2e-15 -5.0e-14 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Ice water path - shp-10p-Dimethyl sulphide (DMS) mole fraction cloud cover ambient aerosol optical percentage - shp-10p-red thickness at 550nm - shp-10p-red 2e-04 1e-04 clivi (kg m⁻²) _lom lom) smp 0e+00 0e+00 od550aer -5e-14 -1e-04-2e-04 2002 2003 2004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2000 2001 Year Year Year Year



surface flux of BC – shp–10p–red

2000 2001 2002 2003 2004

Year

2000 2001 2002 2003 2004