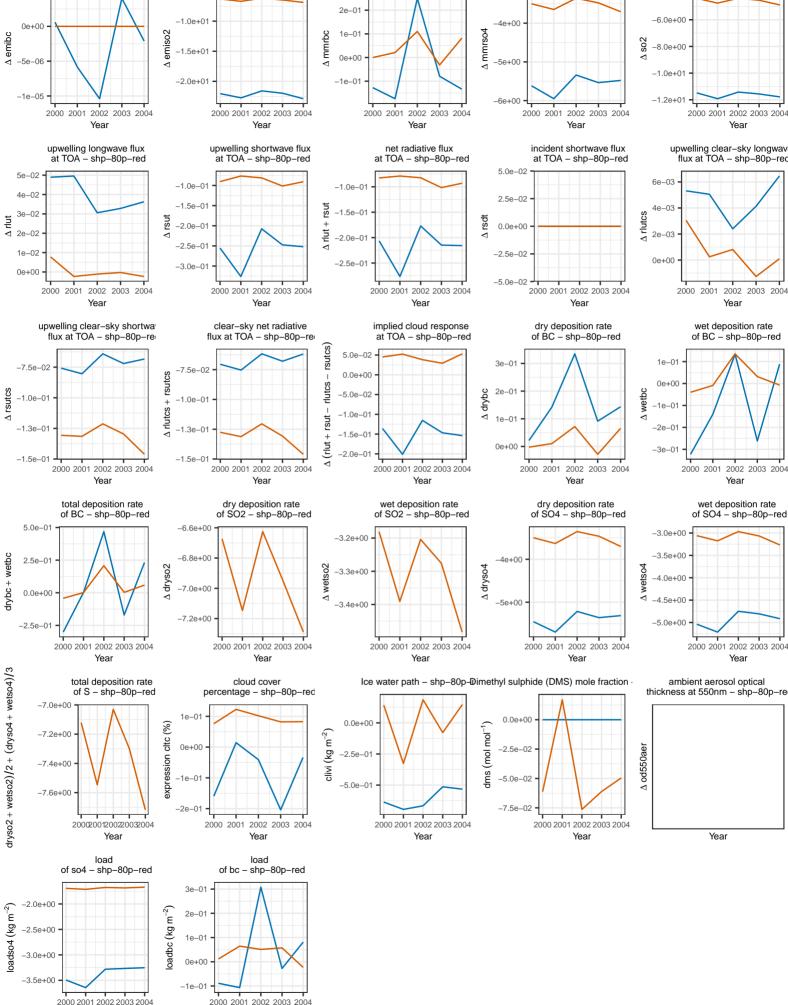
sea: absolute difference surface flux surface concentration surface concentration surface concentration of SO2 - shp-80p-red of BC - shp-80p-red of SO4 - shp-80p-red of SO2 - shp-80p-red 20-01 -6.0e+00 1e-01 -8.0e+00 0e+00 -1.0e+0.1-1e-01 -1 2e+01 2000 2001 2002 2003 2004 2002 2003 2004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2000 2001 Year Year Year Year upwelling shortwave flux at TOA – shp–80p–red incident shortwave flux at TOA – shp–80p–red upwelling clear–sky longwave flux at TOA – shp–80p–red net radiative flux at TOA - shp-80p-red 5 0e-02 6e-03 -1.0e-01 rsut 4e-03 _1 5e_01 0.0e + 0.0e +^ rlut 2e-03 -2.0e-01 -2 5e-02 0e+00 -2.5e-01 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year clear-sky net radiative implied cloud response dry deposition rate wet deposition rate flux at TOÁ - shp-80p-re at TOA - shp-80p-red of BC - shp-80p-red of BC - shp-80p-red rsutcs) 5.0e-02 1e-01 0.0e+00 rlutcs 0e+00 2e-01 wetbc ∆ drybc -5.0e-02 -1e-01 _1 0e_01 -2e-01 0e+00 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–80p–red wet deposition rate of SO2 – shp–80p–red dry deposition rate of SO4 – shp–80p–red wet deposition rate of SO4 – shp–80p–red -3.0e+00 -3 2e+00 -3.5e+00 -4e+00∆ dryso4 _3 3e+00 -4.0e+00 -4.5e+00 -3.4e + 00-5.0e+00 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-80p-Dimethyl sulphide (DMS) mole fraction cloud cover ambient aerosol optical percentage - shp-80p-red thickness at 550nm - shp-80p-red 0.0e+00 0.0e+00 clivi $(kg m^{-2})$ _lom lom) smb -2.5e-02 ∆ od550aer -5 0e-01 -7.5e-02 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 Year Year Year Year load of bc - shp-80p-red



surface flux of BC – shp–80p–red

Year