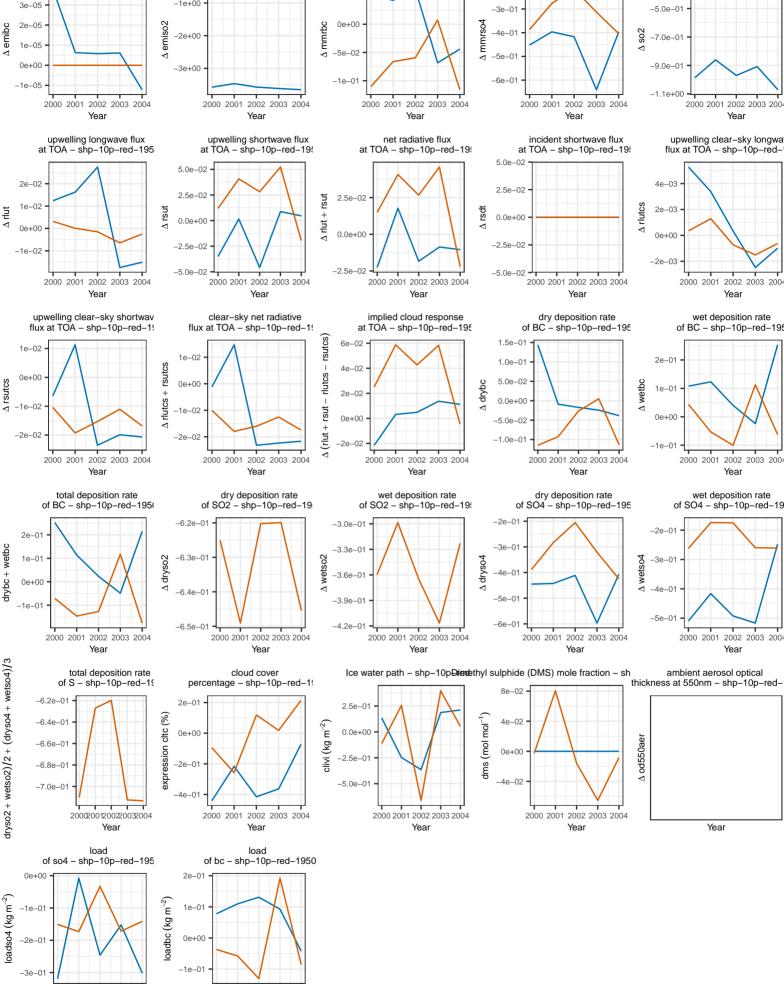
NH-sea: absolute difference surface flux surface concentration surface concentration surface concentration of SO2 - shp-10p-red-195 of BC - shp-10p-red-1950 of SO4 - shp-10p-red-195 of SO2 - shp-10p-red-19 5e-02 -1e+00 _3e_01 -5.0e-01 0e+00 -2e+00 -7.0e-01 -5e-02 -5e-01 -1e-01 -6e-01 -1.1e+00 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year upwelling shortwave flux at TOA – shp–10p–red–19! incident shortwave flux at TOA – shp–10p–red–19! upwelling clear-sky longwav flux at TOA - shp-10p-red-1 net radiative flux at TOA - shp-10p-red-19 5.0e-02 5.0e-02 4e-03 2.5e-02 rsut 2e-03 0.0e + 0.0e +0.0e + 00△ rlut -0.0e+00 0e+00 -2 5e-02 -2e-03 -2 5e-02 -5.0e-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 TOA - shp-10p-red-19 at TOA - shp-10p-red-195 of BC - shp-10p-red-195 of BC - shp-10p-red-1950 rsutcs) 1e-02 2e-01 4e-02 rlutcs -5.0e-02 0e+00 ∆ wetbc 1e-01 2e-02 0.0e + 00-1e-02 rsut 0e+00 0e+00 _5 0e_02 (rlut + -2e-02 -1.0e-01 -1e-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–10p–red–19 wet deposition rate of SO2 – shp-10p-red-199 dry deposition rate of SO4 – shp–10p–red–195 wet deposition rate of SO4 – shp-10p-red-195 -3.0e-01 -3e-01 -6.3e-01 -3e-01 -4e-01 -4e-01 -6 4e-01 -3.9e-∩1 -5e-01 -5e-01 -6.5e -4.2e-01 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-10pDienethyl sulphide (DMS) mole fraction - sh cloud cover ambient aerosol optical percentage - shp-10p-red-19 thickness at 550nm - shp-10p-red-1 2e-01 4e-02 clivi $(kg m^{-2})$ _lom lom) smb 0e+00 0.0e+00 ∆ od550aeı 0e+00 4e-02 -5.0e-01 -4e-0 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2000 2001 2002 2003 2004 Year Year Year Year load of bc - shp-10p-red-1950 2e-01



surface flux

of BC - shp-10p-red-1950

2000 2001 2002 2003 2004

Year

4e-05

2000 2001 2002 2003 2004