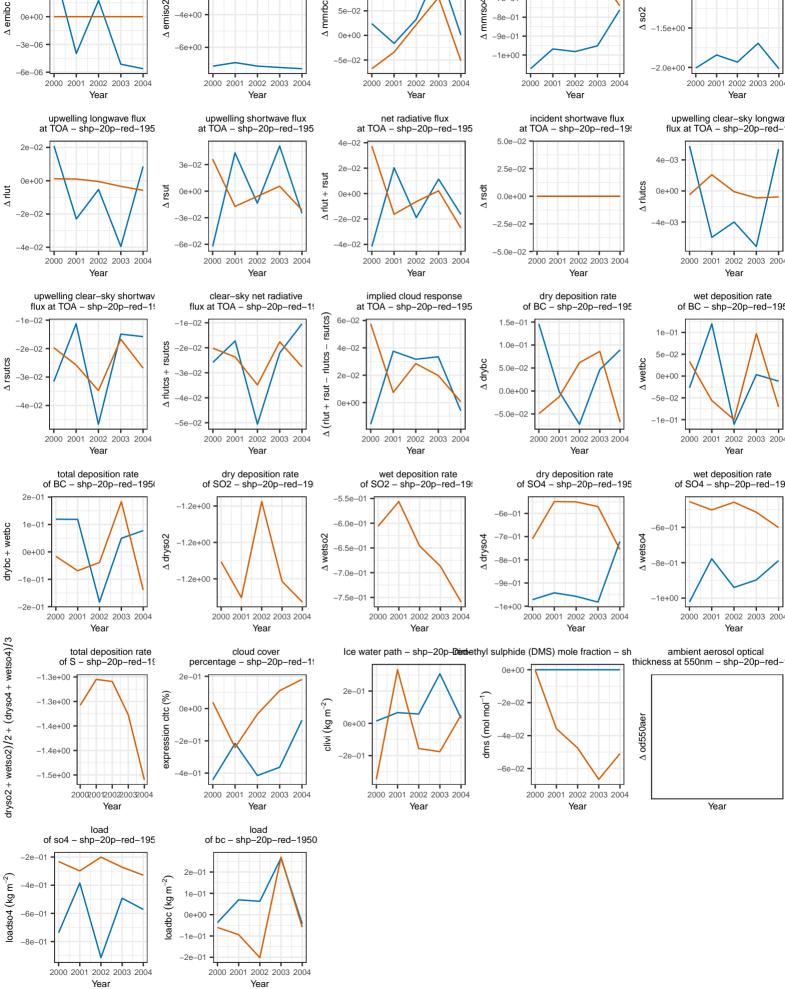
NH-sea: absolute difference surface flux surface concentration surface concentration surface concentration of SO2 - shp-20p-red-195 of BC - shp-20p-red-1950 of SO4 - shp-20p-red-195 of SO2 - shp-20p-red-19 -6e-01 -2e+00 1e-01 -1.0e+00 -7e-01 5e-02 $\Delta so2$ -4e+00 -8e-01 -1.5e+000e+00 -9e-01 -6e+00 _1e+00 2000 2001 2002 2003 2004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 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 4e-03 ∆ rlut + rsut 0e+00 0.0e + 00-3e-02 -2e-02 -4e-03 -2 5e-02 -4e-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-20p-red-19 at TOA - shp-20p-red-195 of BC - shp-20p-red-195 of BC - shp-20p-red-1950 rsutcs) 6e-02 1e-01 rlutcs -56-02 ∆ wetbc 5.0e-02 -3e-02 2e-02 0e+00 rsut 0.0e+00 -4e-02 -5e-02 0e+00 ₹ -5 0e-02 -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–20p–red–19 wet deposition rate of SO2 – shp-20p-red-19! dry deposition rate of SO4 – shp–20p–red–195 wet deposition rate of SO4 – shp-20p-red-195 -5.5e-0° -1.2e+00 -6e-01 -6.0e-01 ∆ drvso4 -6.5e-01 -8e-01 -8e-01 -1.2e+00 _01 -1e+00 -7.5e-01 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Ice water path - shp-20p-Dantethyl sulphide (DMS) mole fraction - sh cloud cover ambient aerosol optical percentage - shp-20p-red-19 thickness at 550nm - shp-20p-red-1 2e-01 2e-01 -2e-02 clivi (kg m^{-2}) _lom lom) smp 0e+00 ∆ od550ae 0e+00 -4e-02 -2e-01 -2e-0 -6e-02 -4e-01 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 Year Year Year Year load of bc - shp-20p-red-1950



surface flux

of BC - shp-20p-red-1950

3e-06