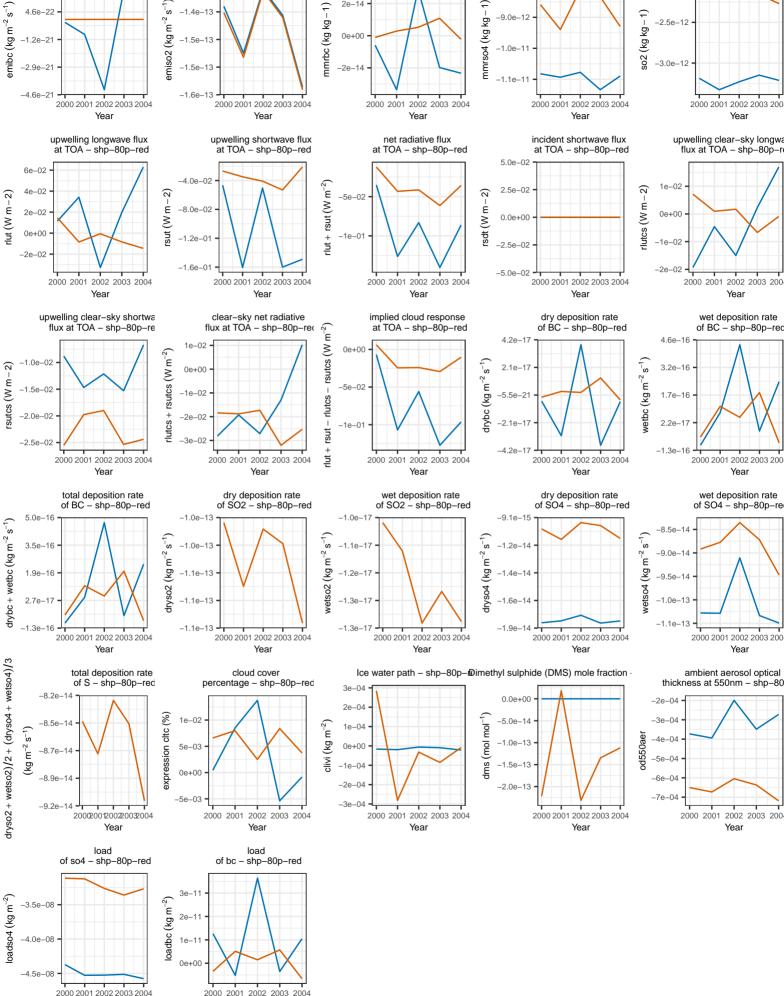
## SH-sea: absolute difference surface flux of SO2 – shp–80p–red surface concentration surface concentration surface concentration of BC - shp-80p-red of SO4 - shp-80p-red of SO2 - shp-80p-red -8.0e-12 nmrbc (kg kg – 1) so2 (kg kg – 1) mmrso4 (kg kg -2.5e-12 0e+00 -3.0e-12 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 Year Year Year Year upwelling shortwave flux at TOA – shp–80p–red upwelling clear-sky longway flux at TOA - shp-80p-red incident shortwave flux at TOA – shp–80p–red net radiative flux at TOA - shp-80p-red 5 0e=02 $rsut(W m^{-2})$ 5 rsdt (Wm-2)rlutcs (W m -0e+00 0.0e + 0.0-1e-0 -2 5e-02 -1.6e-01 -2e-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 TOÁ - shp-80p-red at TOA - shp-80p-red of BC - shp-80p-red of BC - shp-80p-red rsutcs (W m<sup>-2</sup>) 4.6e-16 1e-02 0e+00 3.2e-16 drybc (kg m<sup>-2</sup> s<sup>-1</sup> wetbc (kg m<sup>-2</sup> s<sup>-</sup> -5e-02 -1e-02 rlutcs -2e-02 -1e-01 rsut – 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–80p–red dry deposition rate of SO2 – shp–80p–red wet deposition rate of SO2 – shp–80p–red wet deposition rate of SO4 – shp–80p–red -1.0e-1 -9.1e-15 wetso2 (kg m<sup>-2</sup> s<sup>-</sup> wetso4 (kg m<sup>-2</sup> $dryso4 (kg m^{-2}$ -1.4e-14 -9.5e-14 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Ice water path - shp-80p-@imethyl sulphide (DMS) mole fraction cloud cover ambient aerosol optical percentage - shp-80p-red thickness at 550nm - shp-80p 0.0e+00 -2e-04 2e-04 clivi (kg m<sup>-2</sup>) lom lom) smb 1e-04 0e+00 -5e-04 \_1 5e\_13 -6e-04 -2e-04 -2.0e-13 -7e-04 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 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

4.6e-22

Year