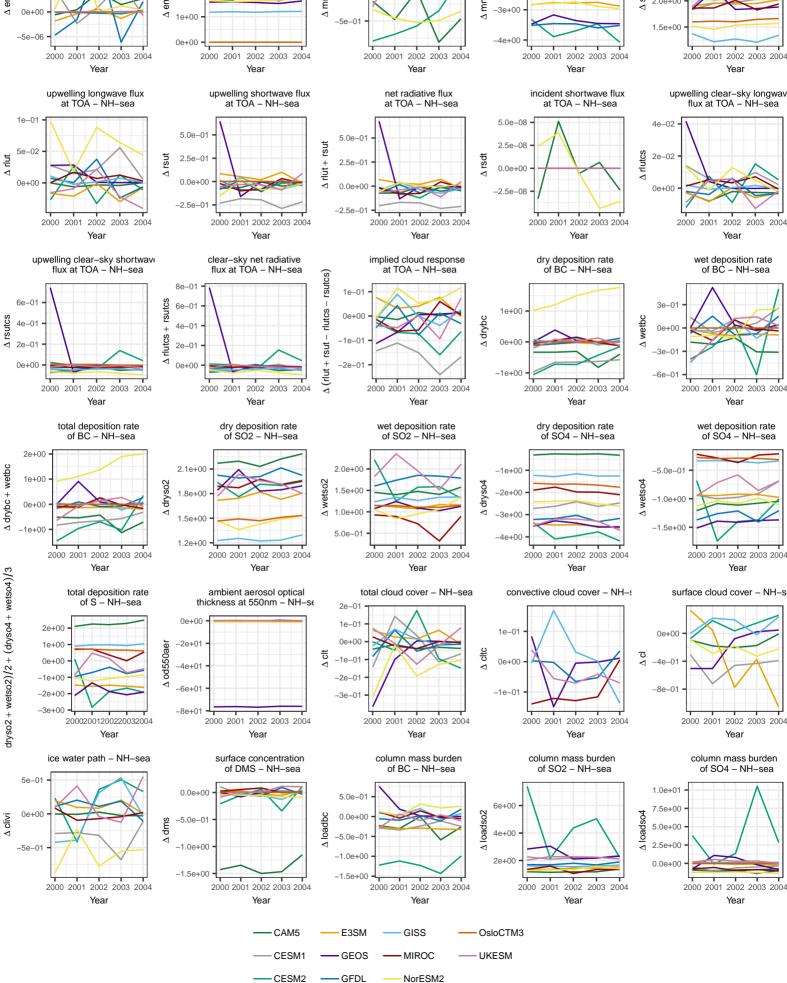
no-so4: percent difference surface flux surface concentration surface concentration surface concentration of SO2 - NH-sea of BC - NH-sea of SO4 - NH-sea of SO2 - NH-sea mmrso4 ∆ mmrbc 2.0e+00 -5e-01 -4e+00 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year upwelling clear-sky longwave flux at TOA - NH-sea net radiative flux incident shortwave flux at TOA – NH-sea at TOA - NH-sea 5.0e-08 5.0e-01 rsut 2.5e-08 2e-02 ∆ rlut + ı 0.0e + 000.0e+00 _2 5e_08 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year dry deposition rate of BC – NH–sea wet deposition rate of BC – NH–sea implied cloud response at TOA - NH-sea rsutcs) 1e-01 rlutcs -1e+00 0e+00 rsut – -1e-01 -3e-01 _6e_01 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2002 2003 2004 2000 2001 Year dry deposition rate of SO4 – NH–sea wet deposition rate of SO4 – NH–sea wet deposition rate of SO2 - NH-sea -1e+00 -5.0e-01 ∆ wetso4 1.0e+00 -1.5e+00 5.0e-01 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year total cloud cover - NH-sea convective cloud cover - NH-s surface cloud cover - NH-se 2e-01 1e-01 1e-01 0e+00 -4e-01_2e_01 _8e_01 -1e-01 -3e-01



surface flux

of BC - NH-sea

3e+00

1e-05

5e-06