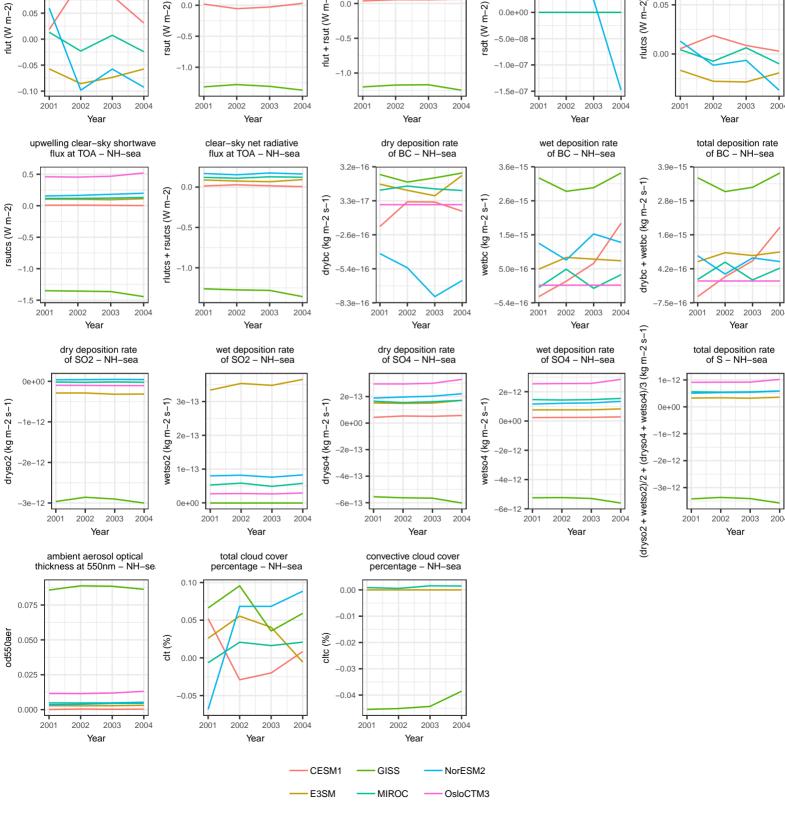
so2-at-height: absolute difference surface flux of SO2 – NH–sea surface concentration of BC – NH–sea surface concentration of SO4 – NH–sea surface concentration of SO2 – NH–sea 0.0e+00 2e-13 0e+00 mmrbc (kg kg-1) so2 (kg kg-1) mmrso4 (kg -1.0e-12 0e+00 _1 5e_12 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 2001 2002 Year Year Year Year upwelling shortwave flux at TOA – NH–sea net radiative flux at TOA – NH–sea incident shortwave flux at TOA – NH–sea upwelling clear-sky longwave flux at TOA - NH-sea 0.5 rlut + rsut (W m-2) 0.0 rlutes (W m-2) sdt (W m-2) -0.5 0.00 2003 2001 2003 2002 2003 2001 2002 2003 Year Year Year Year dry deposition rate of BC – NH–sea wet deposition rate of BC – NH–sea total deposition rate of BC – NH–sea 3.2e-16 3.6e-15 3.9e-15 drybc + wetbc (kg m-2 s-1) drybc (kg m-2 s-1) wetbc (kg m-2 s-1) 2.6e-15 2.8e-15 1.6e-15 5 0e-16 2002 2003 2001 2003 2001 2003 2001 2002 2003 Year Year Year Year (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3 (kg m-2 s-1) total deposition rate of S – NH–sea dry deposition rate of SO4 – NH–sea wet deposition rate wet deposition rate of SO2 - NH-sea of SO4 - NH-sea 2e-12 dryso4 (kg m-2 s-1) wetso4 (kg m-2 s-1) 0e+00 0e+00 0e+00 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 2001 2002 2003 Year Year Year convective cloud cover percentage – NH-sea total cloud cover percentage - NH-sea 0.00



surface flux of BC – NH–sea

emiso2 (kg m-2 s

emibc (kg m-2 s-1)

2.1e-21

5.6e-22

0.15

0.10

2001

2002

upwelling longwave flux at TOA – NH–sea

Year

2003