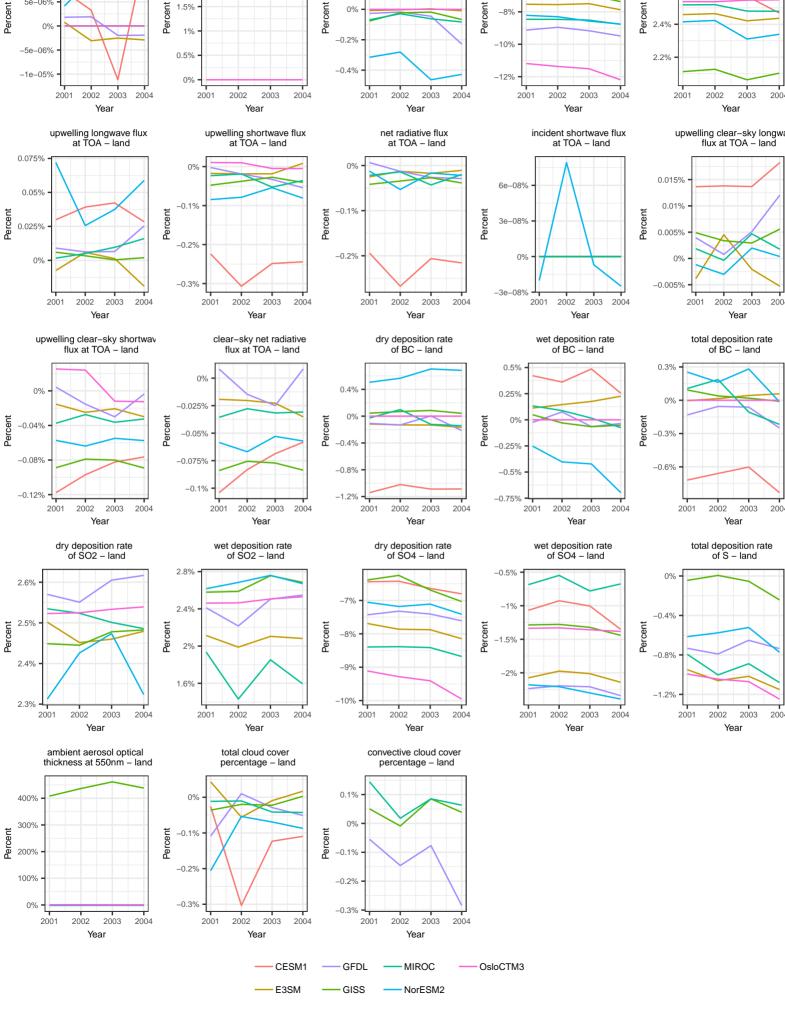
no-so4: percent difference surface flux of SO2 – land surface concentration of BC – land surface concentration of SO4 – land surface concentration of SO2 – land 2.5% 0.2% -6% 2% 2.6% 1.5% Percent Percent Percent 0% -8% 2.4% -0.2% 2.2% -0.4% 0% 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 2001 2002 2003 Year Year Year Year upwelling shortwave flux at TOA – land upwelling clear-sky longway flux at TOA - land net radiative flux incident shortwave flux at TOA - land at TOA - land 0% 0% 0.015% 6e-08% 0.01% Percent -0.1% Percent Percent 3e-08% 0.005% -0.2% 0% -0.005% -3e-08% 2001 2003 2001 2003 2004 2001 2002 2003 2004 2002 2003 2004 Year Year Year Year clear-sky net radiative dry deposition rate wet deposition rate total deposition rate flux at TOA - land of BC - land of BC - land of BC - land 0.3% 0.5% 0% 0.4% 0.25% 0% Percent 0% Percent 0% -0.4% -0.25% -0.6% -0.8% -0.5% -0.1% -0.752003 2003 2001 2001 2001 2003 2001 2003 Year Year Year Year wet deposition rate dry deposition rate wet deposition rate total deposition rate of SO2 - land of SO4 – land of SO4 - land of S - land -0.5% -0.4% Percent Percent -8% -1.5% 2% -0.8% _9% -10% 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 2004 Year Year convective cloud cover total cloud cover percentage - land percentage - land 0.1% 0% 0%



surface flux of BC – land

1.5e-05%

1e-05%

5e-06%