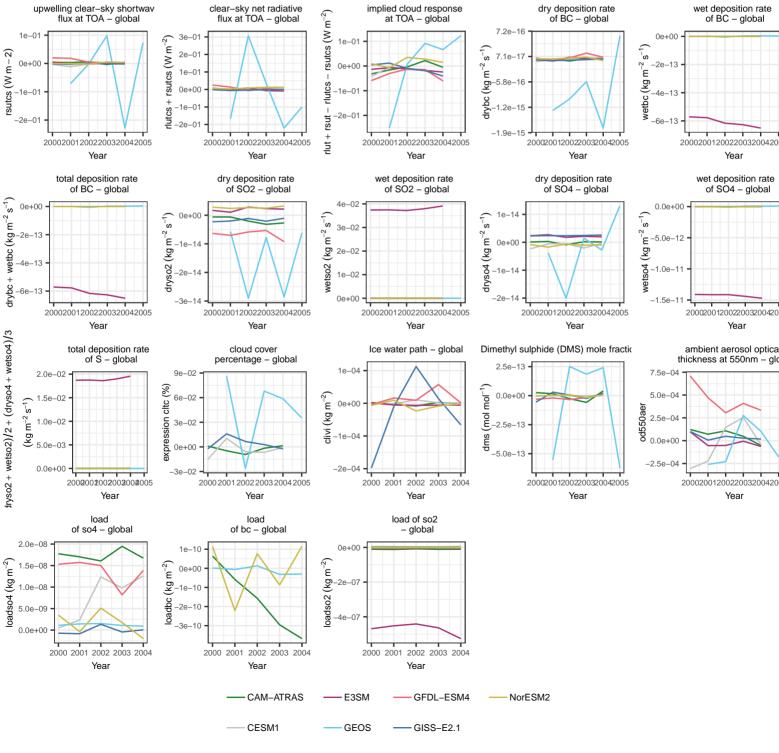
shp-atl-shift: absolute difference surface concentration of SO4 – global surface flux surface concentration surface concentration of SO2 - global of SO2 - global mmrso4 (kg kg-1) (kg kg - 1)0.0e+00 (ka ka-0e+00 2 302 200020012002200320042005 200020012002200320042005 200020012002200320042005 200020012002200320042005 Year Year Year Year upwelling shortwave flux at TOA – global upwelling clear-sky longwave flux at TOA - global incident shortwave flux at TOA – global net radiative flux at TOA – global 2e-01 2e-01 m^{-2} 2e-01 rsut (W ·lutcs (W m-0e+001e-01 ≥ 0e+00 0e+00 -1e-01 Ė 1e-01 200020012002200320042005 200020012002200320042005 200020012002200320042005 200020012002200320042005 Year Year Year Year clear-sky net radiative flux at TOA – global dry deposition rate of BC – global wet deposition rate of BC – global implied cloud response m^{-2} at TOA - global rsutcs (W 1e-01 m^{-2} 0e+00 $kg m^{-2}$ -5.8e-16 vetbc (kg rlutes drybc (-2e-01 rsut rict + 200020012002200320042005 200020012002200320042005 200020012002200320042005 Year Year Year Year dry deposition rate of SO2 – global wet deposition rate of SO2 – global dry deposition rate of SO4 – global wet deposition rate of SO4 – global 4e-02 wetso2 (kg $\mathrm{m}^{-2}\,\mathrm{s}^{-1}$ dryso4 (kg m⁻² s⁻ 3e-02 -5.0e-12 0e+00 (kg 1504 200020012002200320042005 200020012002200320042005 200020012002200320042005 Dimethyl sulphide (DMS) mole fraction cloud cover Ice water path - global ambient aerosol optical percentage - global thickness at 550nm - globa 7.5e-04 5.0e-04 clivi (kg m⁻²) 0.0e + 00mol mol 0e+00 2.5e-04 0.0e + 0.02000 2001 2002 2003 2004 200020012002200320042005 200020012002200320042005 Year Year Year Year load load of so2



surface flux

1.2e-19

2.7e-20

-1.8e-20 -6.2e-

3e-0

2e-01

1e-01

0e+00

rlut(Wm-2)

 $\mathrm{emjbc}\,(\mathrm{kg}\,\mathrm{m}^{-2}\,\mathrm{s}^{-1})$

of BC - global

200020012002200320042005

Year

upwelling longwave flux at TOA – global

200020012002200320042005

Year

 $(kg m^{-2} s^{-1})$

2e_01

1e-01

rsut (W m-