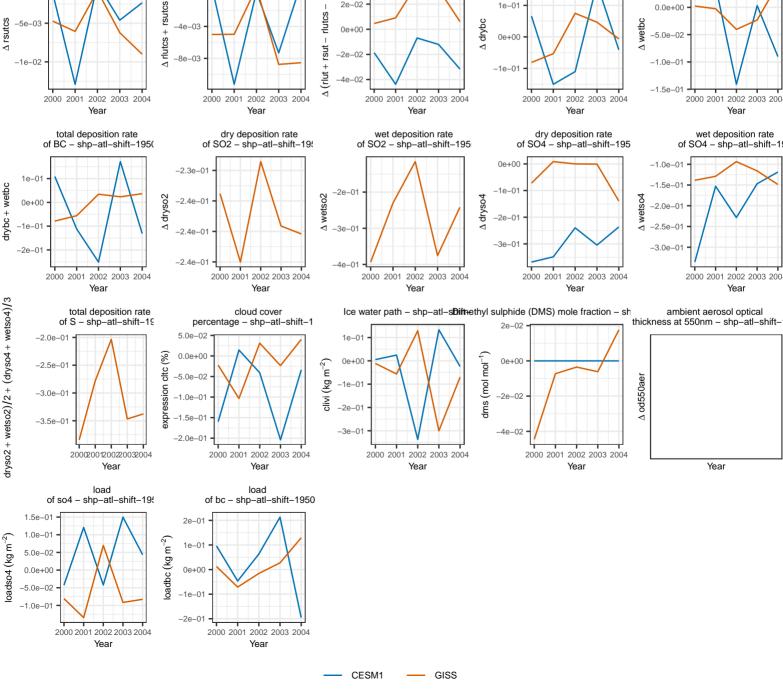
sea: absolute difference surface flux surface concentration surface concentration surface concentration of SO2 - shp-atl-shift-195 of SO4 - shp-atl-shift-195 of SO2 - shp-atl-shift-195 of BC - shp-atl-shift-1950 -1e-01 0e+00 2e-01 -2e-01 _1e_01 1e-01 0e+00 -4e-01 -1e-01 2002 2003 2004 2002 2003 2004 2000 2001 2000 2001 2002 2003 2004 2000 2001 2000 2001 2002 2003 2004 Year Year Year Year upwelling shortwave flux at TOA – shp–atl–shift–195 upwelling clear–sky longwav flux at TOA – shp–atl–shift–19 incident shortwave flux at TOA – shp-atl-shift-195 net radiative flux at TOA - shp-atl-shift-195 5.0e-02 2e-03 00+00 0.0e + 0.0e +듣 0e+00 -2e-02 -2 5e-02 -4e-02-2e-03 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 TOA - shp-atl-shift-19 at TOA - shp-atl-shift-195 of BC - shp-atl-shift-1950 of BC - shp-atl-shift-195 rsutcs) 5.0e-02 1e-01 0.0e+00 rlutcs -∆ wetbo Δ drybα 0e+00 -5.0e-02 0e+00 rsut -2e-02 -1.0e-01 ₹ 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year wet deposition rate of SO2 – shp-atl-shift-195 dry deposition rate of SO4 – shp–atl–shift–195 wet deposition rate of SO4 – shp-atl-shift-19 0e+00 -1.0e-01 -1.5e-01 ∆ dryso4 -01 -2.0e -2.5e-01 -4e-02000 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-atl-sDiffnethyl sulphide (DMS) mole fraction - sh cloud cover ambient aerosol optical thickness at 550nm - shp-atl-shift-1 0e+00 0e+00 clivi (kg m⁻²) _lom lom) smb ∆ od550aer -1e-01 -2e-02 -2e-01 -4e-02 2000 2001 2002 2003 2004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 Year Year Year Year



surface flux

of BC - shp-atl-shift-195

2000 2001 2002 2003 2004

Year

upwelling longwave flux at TOA – shp-atl-shift-195

2000 2001 2002 2003 2004

Year

upwelling clear-sky shortway

flux at TOA - shp-atl-shift-19

5.0e-06

0.0e+00

-5.0e-06

-1 0e-05

-1.5e-05

0e+00

-1e-02

0e+00

-2e-01

-4e-0

_8e_01

2e-02

0e+00

-2e-02

-4e-02

0e+00

∆ emiso2