Summary – absolute difference surface flux of SO2 - NH-atlantic surface flux of BC - NH-atlantic 3.0e-16 5.0e-13 1.5e-16 $\Delta \ \mathrm{emiso2} \ (\mathrm{kg} \ \mathrm{m}^{-2} \ \mathrm{s}^{-1})$ 2.5e-13 $\Delta\,\mathrm{emibc}\,(\mathrm{kg}\,\mathrm{m}^{-2}\,\mathrm{s}^{-1})$ 0.0e+00 0.0e+00 -2.5e-13 -1.5e-16 -5.0e-13 -3.0e-16 surface concentration of BC - NH-atlantic surface concentration of SO4 - NH-atlantic 3e-10 2e-10 3e-12 Δ mmrso4 (kg kg –1) Δ mmrbc (kg kg – 1) 1e-10 0e+00 0e+00 -1e-10 -3e-12 -2e-10 -3e-10 surface concentration of SO2 - NH-atlantic surface concentration of DMS - NH-atlantic 3e-12 2e-12 2.5e-10 $\Delta \cos (kg kg - 1)$ Δ dms (kg kg – 1) 1e-12 0.0e+00 0e+00 -1e-12 -2.5e-10 -2e-12 -3e-12 1050A sol at not 10504

▲ CAM5

CESM1

CESM2

E3SM

GEOS

GFDL

GISS

MIROC

NorESM2

OsloCTM3

UKESM

Summary – absolute difference column mass burden of SO4 - NH-atlantic column mass burden of SO2 - NH-atlantic 5e-07 2e-07 $\Delta \log 4 (kg m^{-2})$ $\Delta \log \log ({\rm kg~m}^{-2})$ 0e+00 0e+00 -2e-07 -5e-07 column mass burden of BC - NH-atlantic SO4 lifetime - NH-atlantic 4e+02 ∆ loadso4/(dryso4 + wetso4) (days) 1e-08 2e+02 $\Delta \, loadbc \, (kg \; m^{-2})$ 0e+00 0e+00 -2e+02 -1e-08 no sola sol at hot SO2 timescale - NH-atlantic ∆ loadso2/emiso2 (days) 5e+08 0e+00 -5e+08 no sol sol at not righ soa

▲ CAM5

CESM1

• CESM2

E3SM

GEOS

• GFDL

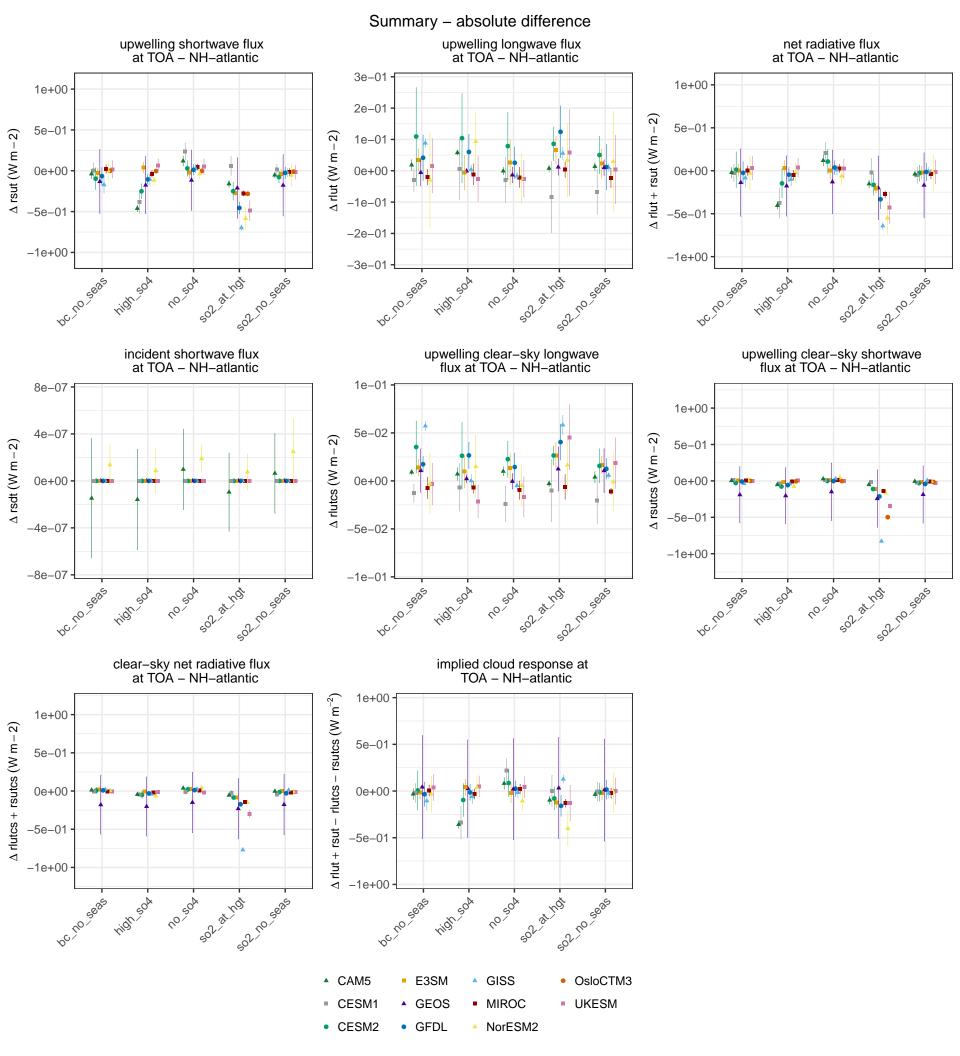
GISS

MIROC

NorESM2

OsloCTM3

UKESM



Summary – absolute difference

