Summary – absolute difference surface flux of BC - no-so4 surface flux of SO2 - no-so4 1.6e-18 8e-13 8.1e-19 4e-13 Δ emibc (kg m $^{-2}$ s $^{-1}$) Δ emiso2 (kg m⁻² s⁻¹) 0.0e+000e+00 -8.1e-19 -4e-13 -1.6e-18 -8e-13 SHJand HH allahic SHJand AH allahic diopal arctic diopal WH. Jand arctic AH Jand land land surface concentration of BC - no-so4 surface concentration of SO4 - no-so4 2e-10 2.5e-12 Δ mmrbc (kg kg – 1) Δ mmrso4 (kg kg – 1) 1e-10 0.0e+00 0e+00 -1e-10 -2.5e-12 -2e-10 Art Pacific SHIAND SHIRING arctic diopal arctic diopal AH Jand Art Pacific AH Jand surface concentration of SO2 - no-so4 surface concentration of DMS - no-so4 1.5e-10 2e-12 1.0e-10 Δ so2 (kg kg –1) Δ dms (kg kg – 1) 1e-12 5.0e-11 0e+00 0.0e + 00-5.0e-11 -1e-12 -1.0e-10 -2e-12 -1.5e-10 HH allantic Art Pacific SHIAND SHJand arctic diopal WH indian AH Jand AH Sea 5¹ 5⁸ diopal Art indian AH Jand Art Pacific MH 388 OsloCTM3

▲ CAM5

CESM1

• CESM2

E3SM

GEOS

• GFDL

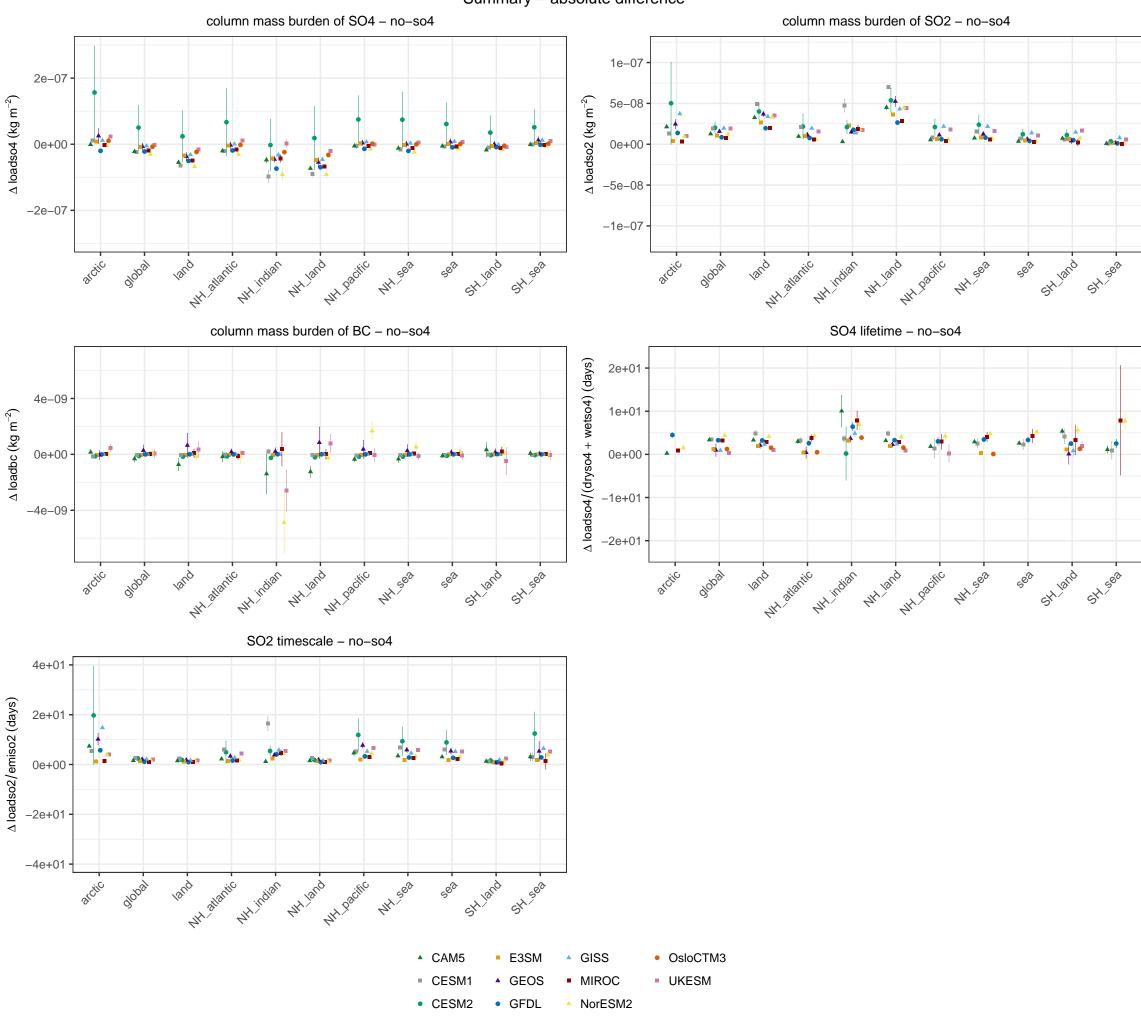
GISS

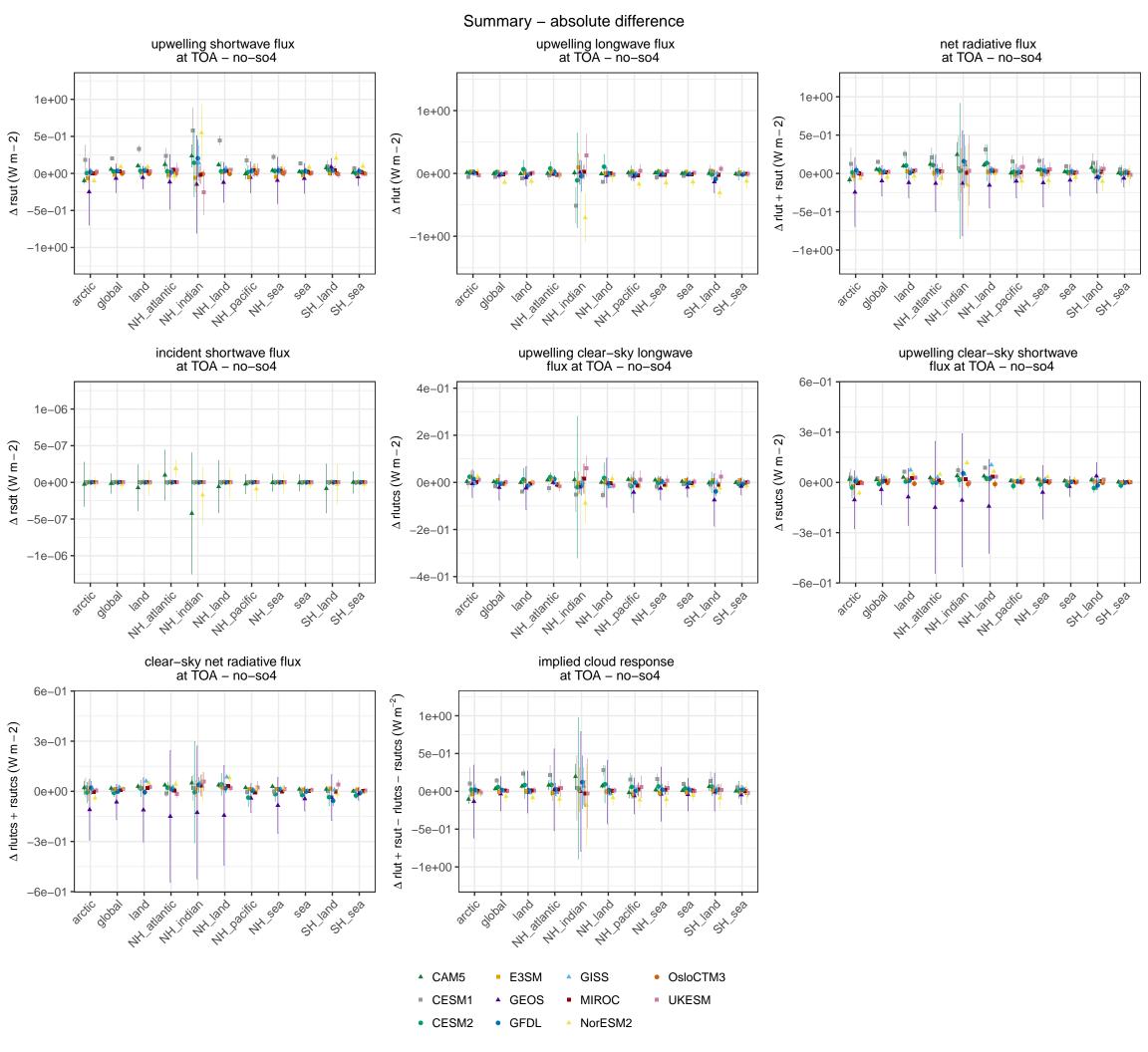
MIROC

NorESM2

UKESM

Summary – absolute difference





Summary – absolute difference ambient aerosol optical total cloud cover - no-so4 thickness at 550nm - no-so4 1e+00 5e-01 1e-01 ∆ clt (percent) Δ od550aer 0e+00 0e+00 -5e-01 -1e-01 -1e+00SHJand SHJand arctic arctic diopal diopal convective cloud cover - no-so4 surface cloud cover - no-so4 2e-01 3e-01 1e-01 Δ cltc (percent) ∆ cl (percent) 0e+00 0e+00 -1e-01 -3e-01 -2e-01 SHJand arctic diopal arctic diopal HH allatic HH light HH land HH sacific HH sea ses stilling still ses ice water path - no-so4 2e-03 1e-03 Δ clivi (kg m $^{-2}$) 0e+00 -1e-03 -2e-03 diopal arctic and Art startic Art lideal Art land Art bacilic Art sea

▲ CAM5

CESM1

• CESM2

E3SM

▲ GEOS

• GFDL

GISS

MIROC

NorESM2

OsloCTM3

UKESM

