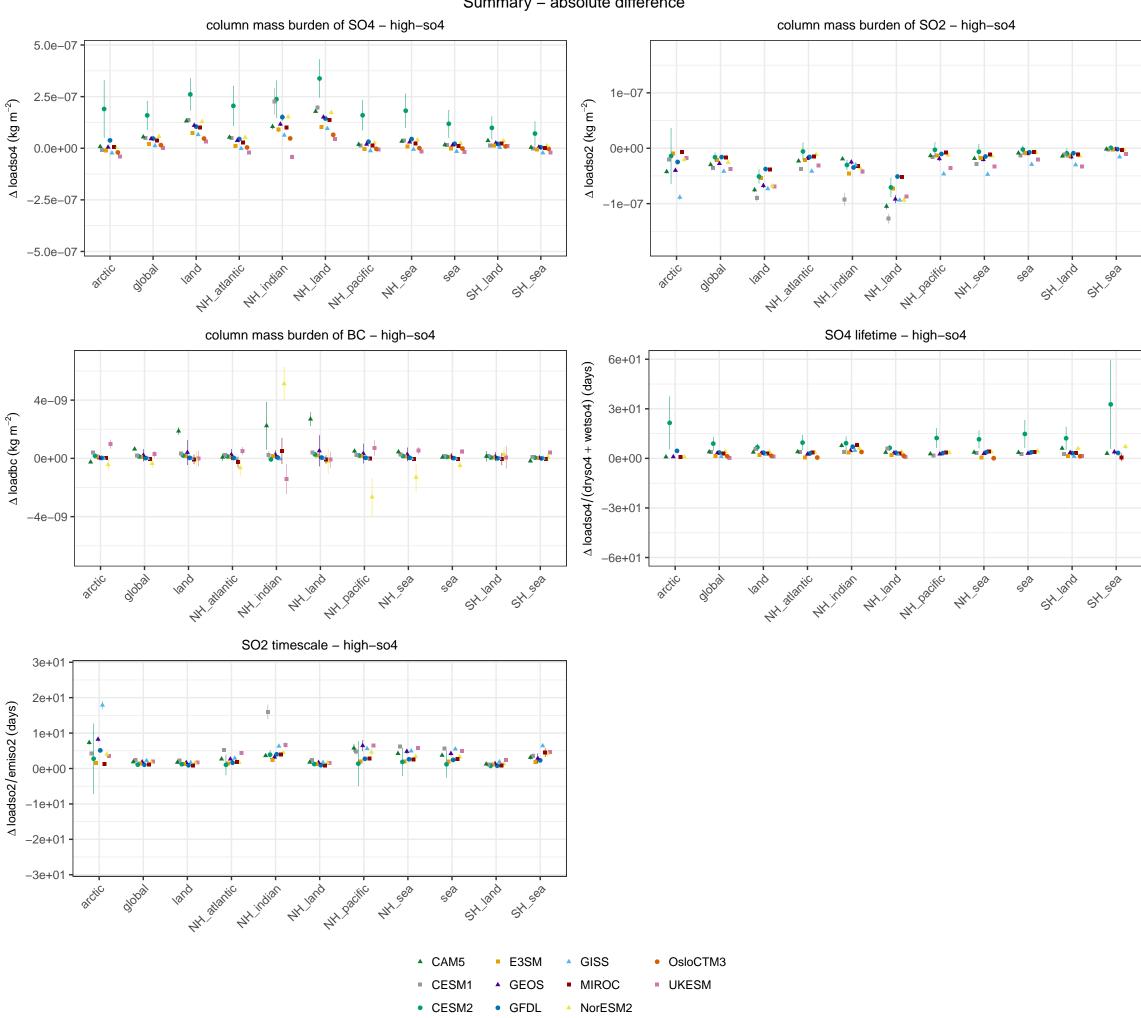
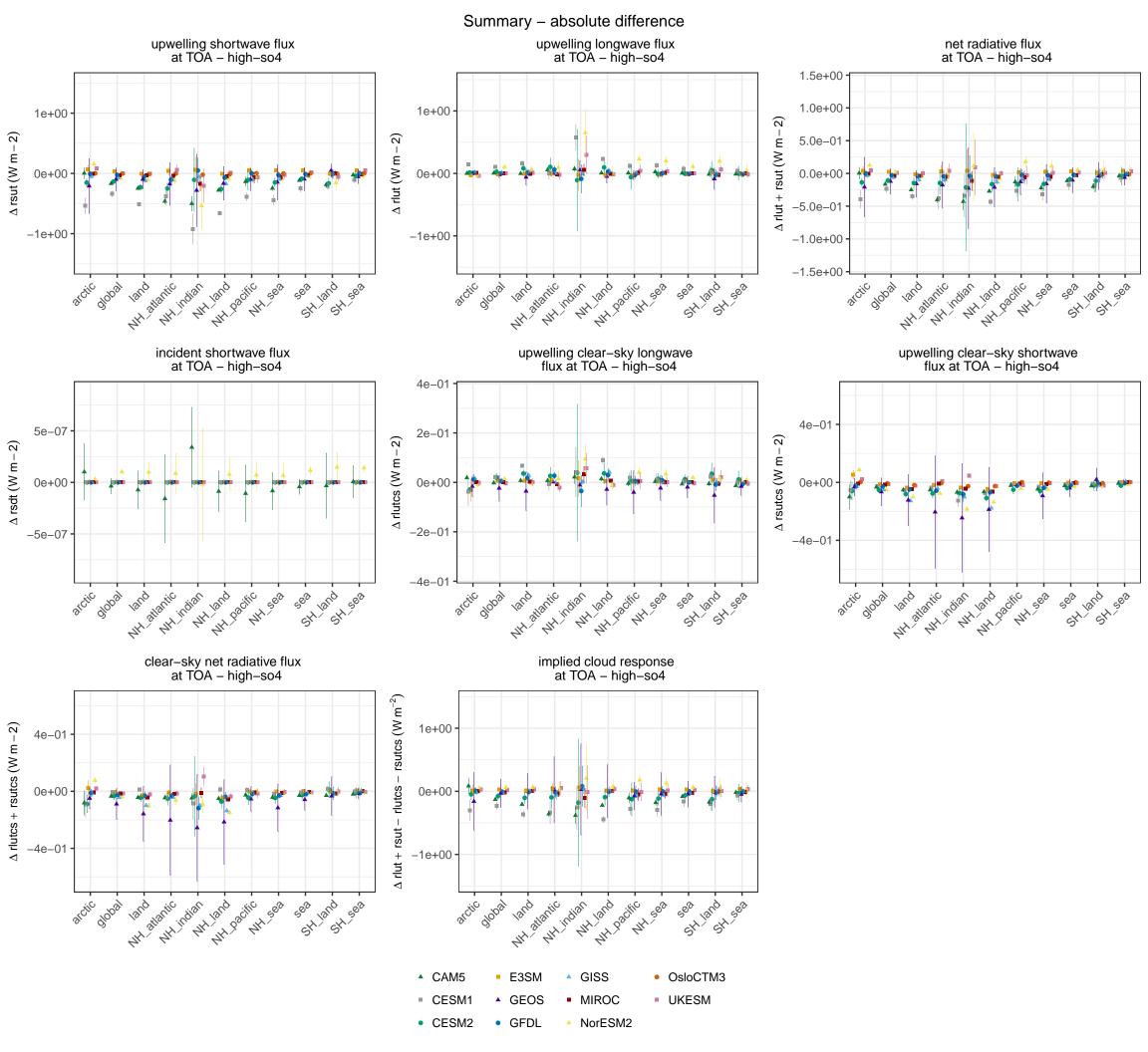
## Summary – absolute difference surface flux of BC - high-so4 surface flux of SO2 - high-so4 1.3e-18 1e-12 6.4e-19 $\Delta\,\mathrm{emiso2}\,(\mathrm{kg}\;\mathrm{m}^{-2}\,\mathrm{s}^{-1})$ $\Delta$ emibc (kg m $^{-2}$ s $^{-1}$ ) 0.0e+000e+00 -6.4e-19 -1.3e-18 SHJand HH allahic SHJand HH allahic Art Pacific Art Dacific diopal arctic diopal Art indian AH Jand arctic land AH Jand land surface concentration of BC - high-so4 surface concentration of SO4 - high-so4 2.5e-10 3e-12 $\Delta$ mmrso4 (kg kg – 1) $\Delta$ mmrbc (kg kg-1) 0.0e+00 0e+00 -3e-12 -2.5e-10 Art Pacific SHIRING arctic diopal Art indian AH Jand arctic SHIRING diopal AH indian AH Jand land surface concentration of SO2 - high-so4 surface concentration of DMS - high-so4 3e-10 2e-10 2e-12 $\Delta \cos (kg kg - 1)$ $\Delta$ dms (kg kg – 1) 1e-10 0e+00 0e+00 -1e-10 -2e-12 -2e-10 -3e-10 Art Pacific SHJand SHJand Art indian Art Pacific arctic diopal WH indian AH Jand 5th 5eth arctic arctic diopal AH Jand Till seg



## Summary – absolute difference





## Summary – absolute difference ambient aerosol optical total cloud cover - high-so4 thickness at 550nm - high-so4 1e+00 1e-01 5e-01 ∆ clt (percent) $\Delta$ od550aer 0e+00 0e+00 -5e-01 -1e-01 -1e+00SHJand SHJand arctic diopal AH jidian surface cloud cover - high-so4 convective cloud cover - high-so4 1e-01 5e-01 $\Delta$ cltc (percent) ∆ cl (percent) 0e+00 0e+00 -5e-01 -1e-01 SHJand arctic diopal arctic diopal AH sharife AH holder AH Jacifec AH sao ses stilling still ses ice water path - high-so4 2e-03 1e-03 $\Delta$ clivi (kg m $^{-2}$ ) 0e+00 -1e-03 -2e-03 diopal arctic arctic and Art alaritic Art indian Art land Art pacific Art sea

▲ CAM5

CESM1

• CESM2

E3SM

▲ GEOS

• GFDL

GISS

MIROC

NorESM2

OsloCTM3

UKESM

