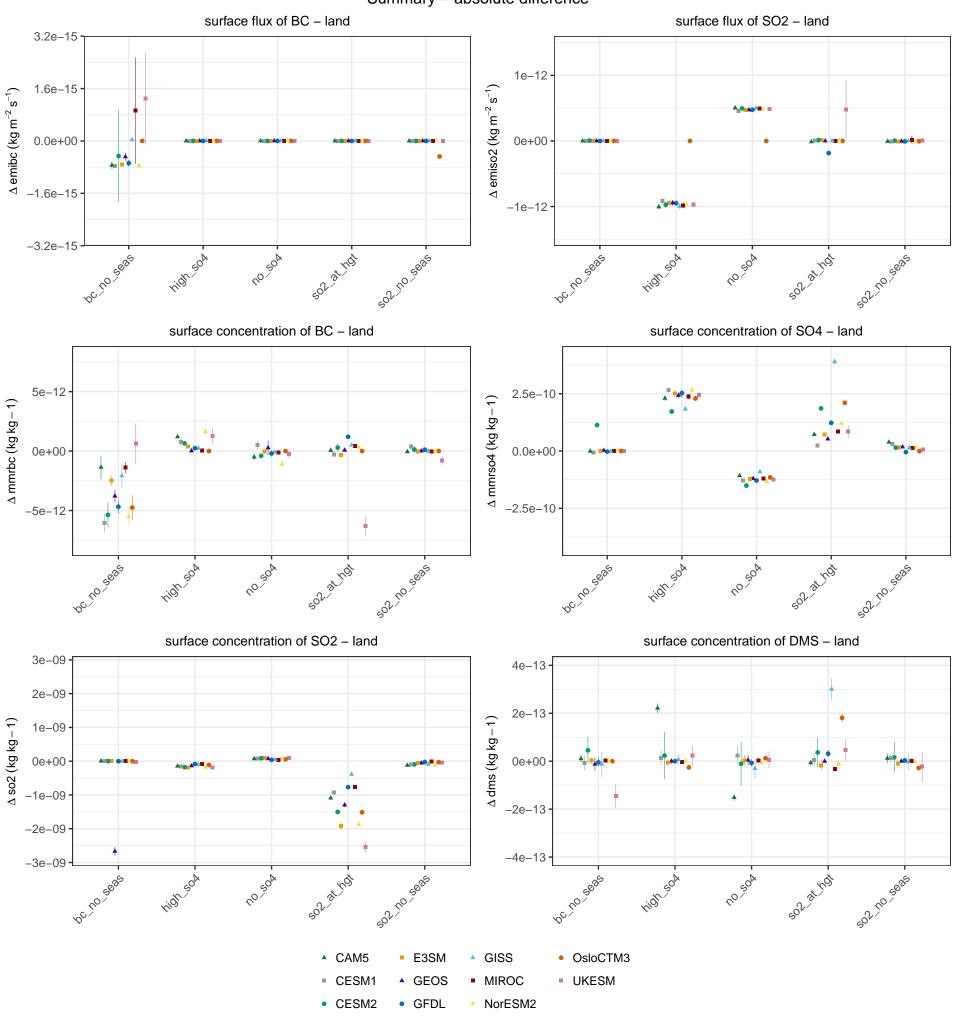
## Summary – absolute difference



## Summary - absolute difference column mass burden of SO4 - land column mass burden of SO2 - land 1e-06 4e-07 $\Delta \log 4 (\mathrm{kg} \ \mathrm{m}^{-2})$ $\Delta \log \log ({\rm kg~m}^{-2})$ 5e-07 0e+00 0e+00 -5e-07 -4e-07 -1e-06 sol at hot SO4 lifetime - land column mass burden of BC - land 1e+02 ∆ loadso4/(dryso4 + wetso4) (days) 2e-08 5e+01 1e-08 $\Delta \; loadbc \; (kg \; m^{-2})$ 0e+00 0e+00 -1e-08 -5e+01 -2e-08 -1e+02 10 50<sup>A</sup> SO2 timescale - land 1e+06 ∆ loadso2/emiso2 (days) 5e+05 0e+00 -5e+05 -1e+06 sol at hos ridh soa 10 50A

▲ CAM5

CESM1

• CESM2

E3SM

GEOS

• GFDL

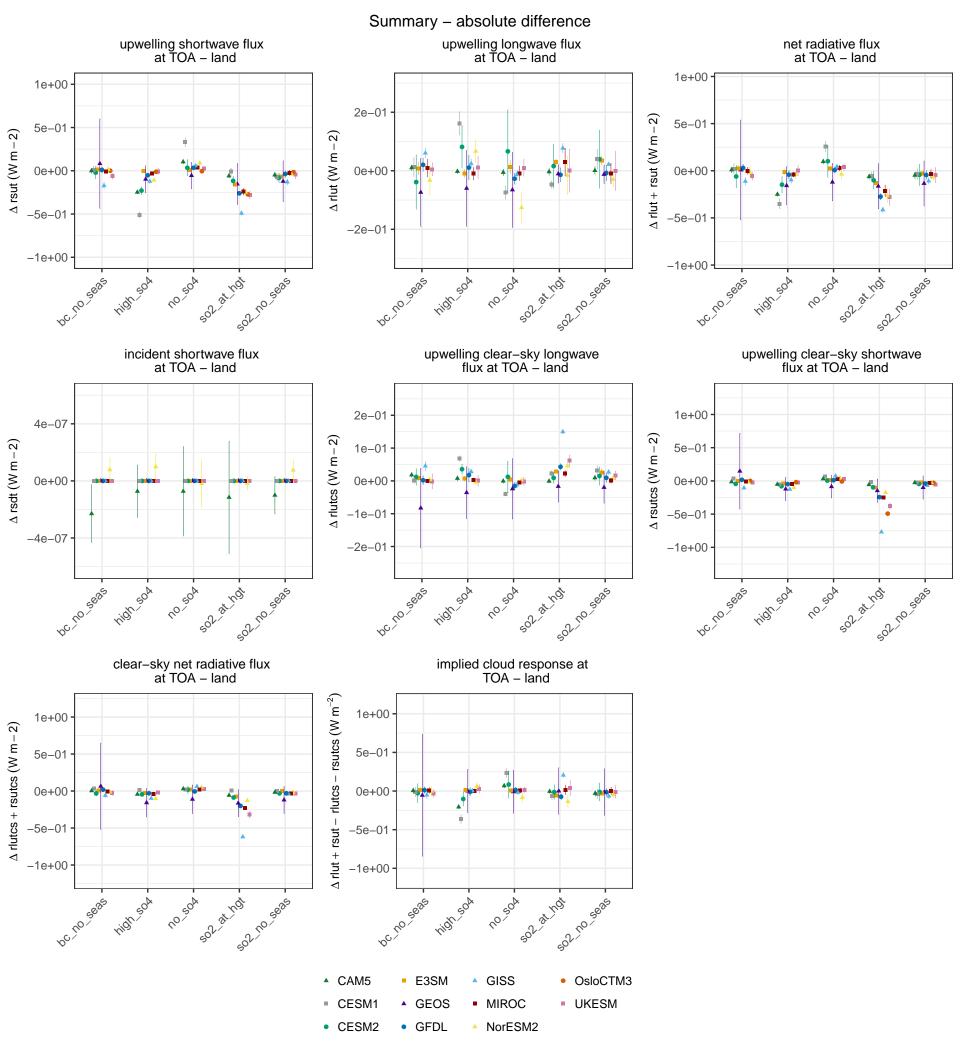
GISS

MIROC

NorESM2

OsloCTM3

UKESM



## Summary – absolute difference total cloud cover - land ambient aerosol optical thickness at 550nm - land 1e-01 2e-01 $\Delta$ clt (percent) 5e-02 ∆ od550aer 0e+00 0e+00 -5e-02 -2e-01 -1e-01 convective cloud cover - land surface cloud cover - land 3e-01 1e-01 2e-01 ∆ cltc (percent) 5e-02 1e-01 $\Delta$ cl (percent) 0e+00 0e+00 -1e-01 -5e-02 -2e-01 -1e-01 -3e-01 1050A ice water path - land 4e-04 $\Delta$ clivi (kg $\mathrm{m}^{-2})$ 0e+00 -4e-04 10 50A OsloCTM3 ▲ CAM5 E3SM GISS

CESM1

• CESM2

GEOS

• GFDL

MIROC

NorESM2

UKESM

