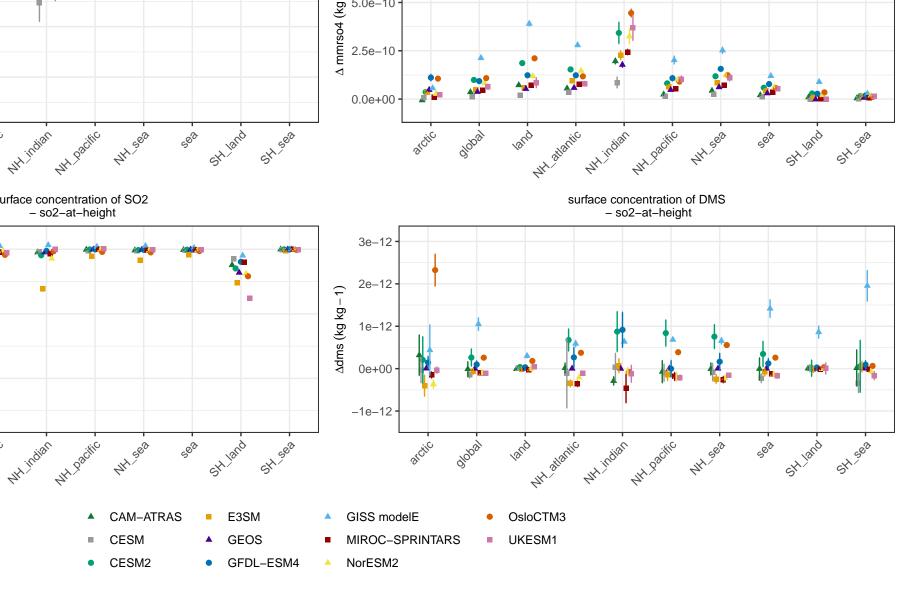
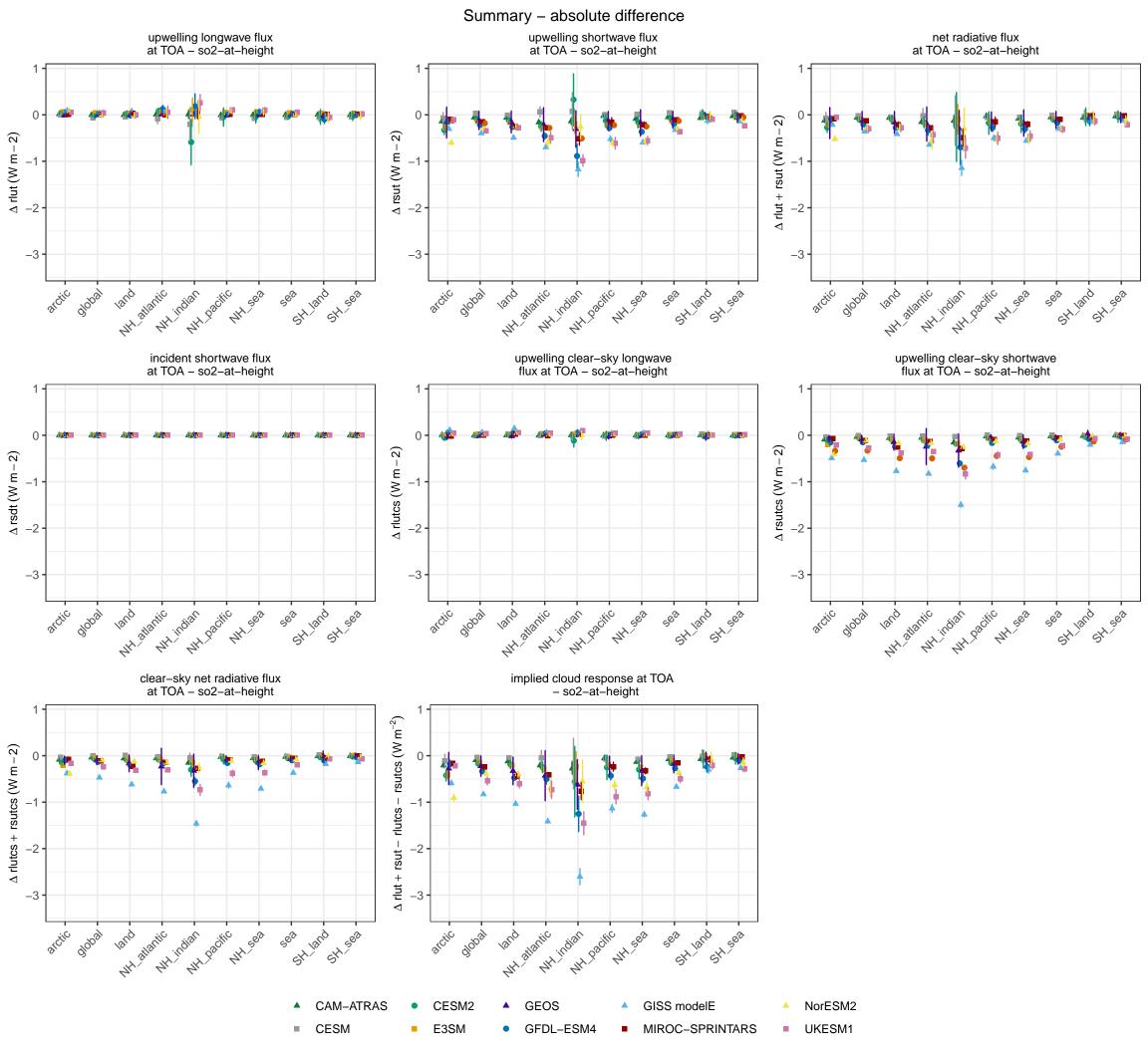
Summary – absolute difference surface flux of BC surface flux of SO2 so2-at-height - so2-at-height 9.908810e-19 1e-12 4.023745e-19 Δ emiso2 (kg m $^{-2}$ s $^{-1}$) $\Delta\,\text{emibc}\,(\text{kg}\,\text{m}^{-2}\,\text{s}^{-1})$ 5e-13 -1.861320e-19 0e+00 -7.746385e-19 -5e-13 -1.363145e-18 SHJand SHIRING Art allantic Art allantic WH indian arctic diopal diopal land SOD land surface concentration of BC surface concentration of SO4 - so2-at-height so2-at-height 3e-12 7.5e-10 Δ mmrso4 (kg kg-1) 0e+00 5.0e-10 -3e-12 2.5e-10 -6e-12 0.0e+00 Art allantic SHIRING Art allaritic arctic arctic arctic Art indian land AH Pacific surface concentration of SO2 surface concentration of DMS - so2-at-height - so2-at-height 3e-12 0e+00 2e-12 ∆dms (kg kg-1) -1e-09 1e-12 0e+00 -2e-09 -1e-12 Art allahic diopal arctic

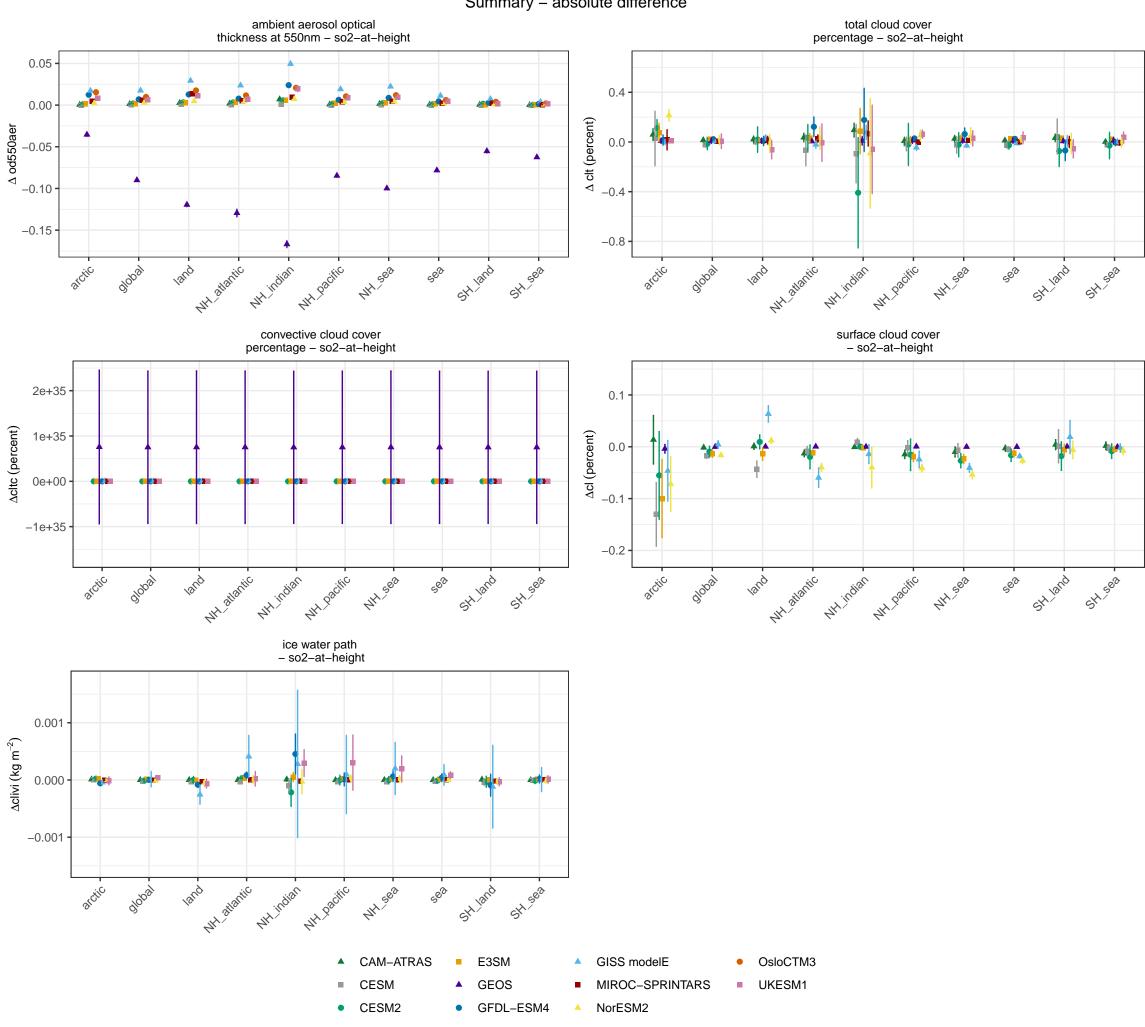
 Δ mmrbc (kg kg – 1)

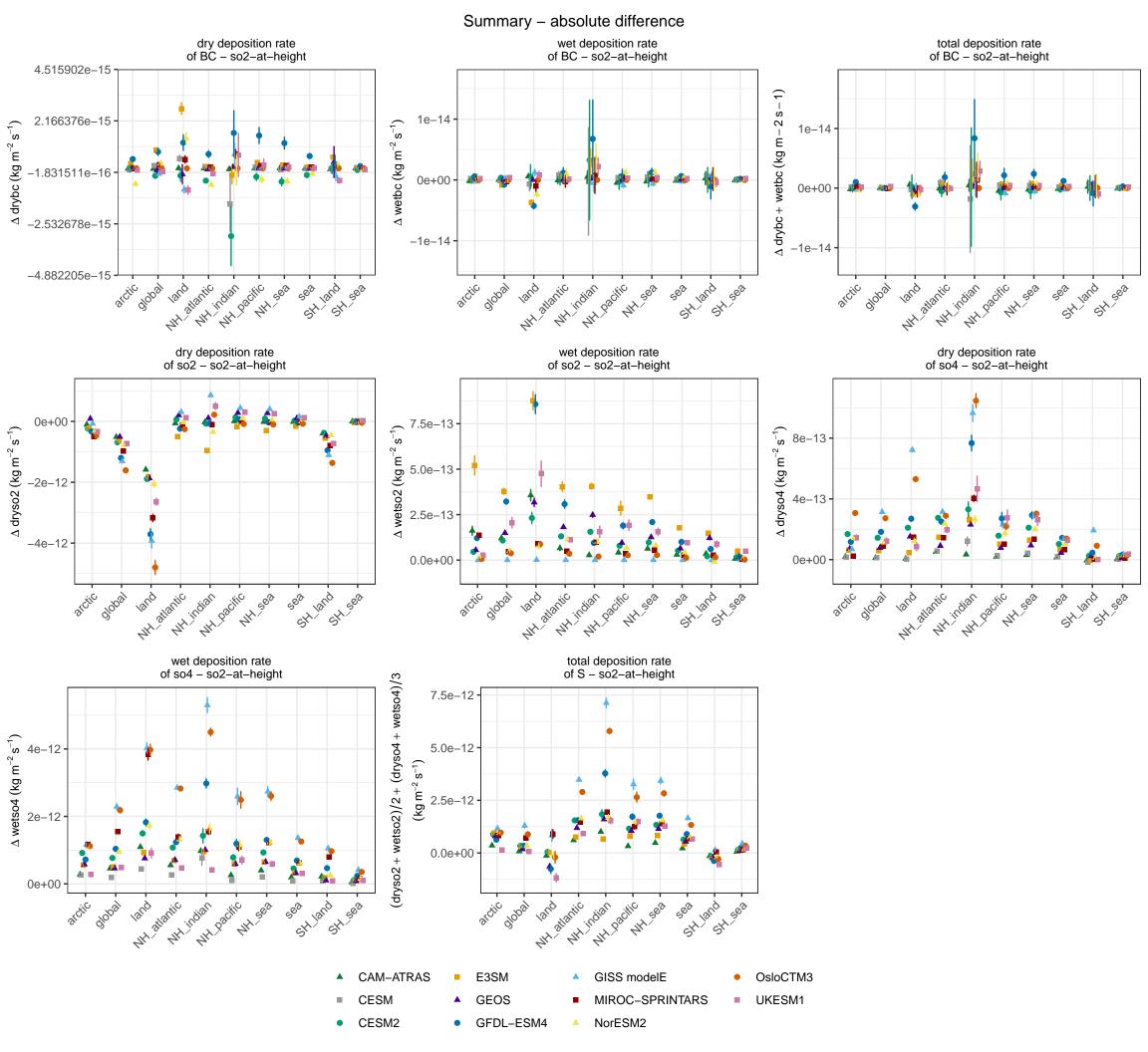
 Δ so2 (kg kg – 1)





Summary – absolute difference





Summary – absolute difference column mass burden of BC column mass burden of SO2 - so2-at-height - so2-at-height 2.5e-09 1e-06 $\Delta \log \log ({ m kg~m}^{-2})$ $\Delta loadbc \, (kg \; m^{-2})$ 0.0e+00 -2.5e-09 5e-07 -5.0e-09 0e+00 SHJand diopal AH atlantic SHJand arctic diopal art indian WH indian land MH Pacific SO4 lifetime – so2–at–height column mass burden of SO4 - so2-at-height 3e-06 3e-06 ∆ loadso4/(wetso4 + dryso4) (days) $\Delta loadso4~(kg~m^{-2})$ 2e-06 1e-06 1e-06 0e+00 0e+00 global Art allatic WH. indian Art Pacific SHJand alchic SH land SH sea arctic diopal land Art distric Art indian Art pacific Art sea Ser SO2 timescale - so2-at-height ∆ loadso2/emiso2 (days) 1e-06 5e-07 0e+00 diopal Art Pacific arctic SHJand 51 58° land d Art static Art Indian MH 368 CAM-ATRAS E3SM OsloCTM3

GISS modelE

NorESM2

MIROC-SPRINTARS

■ UKESM1

CESM

CESM2

GEOS

GFDL-ESM4