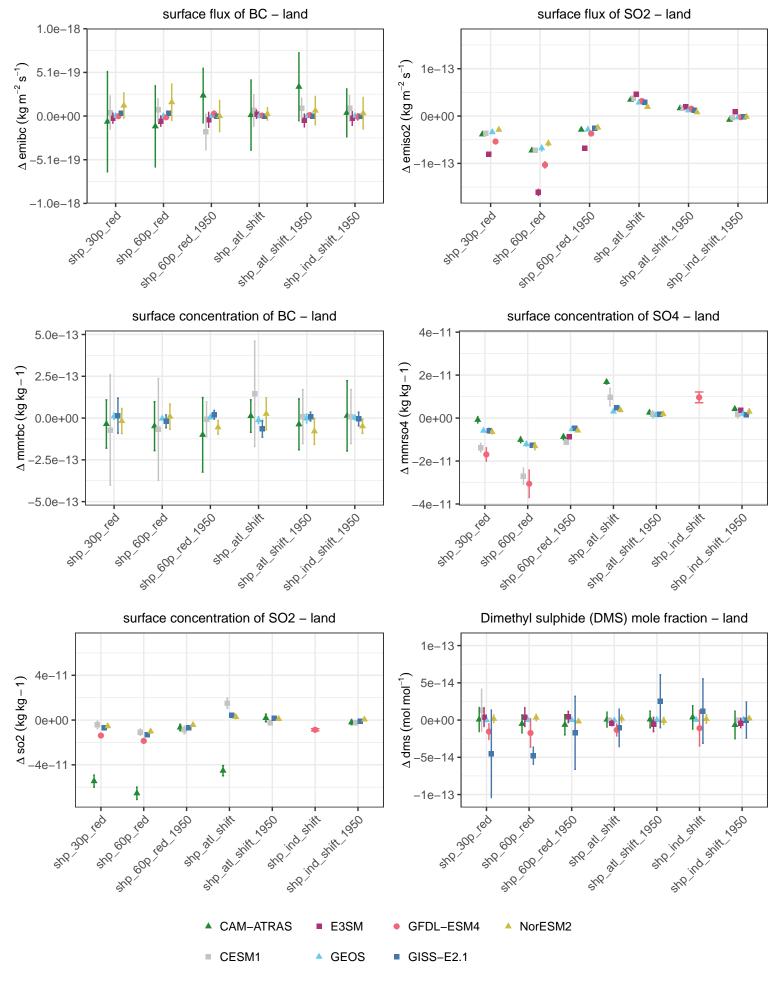
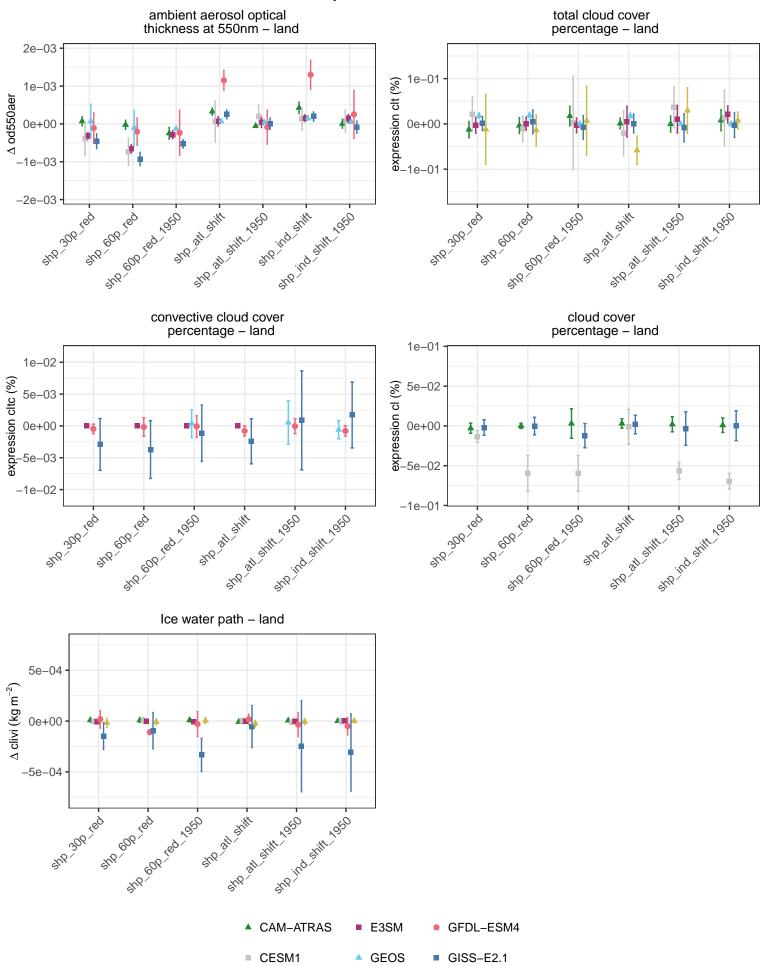
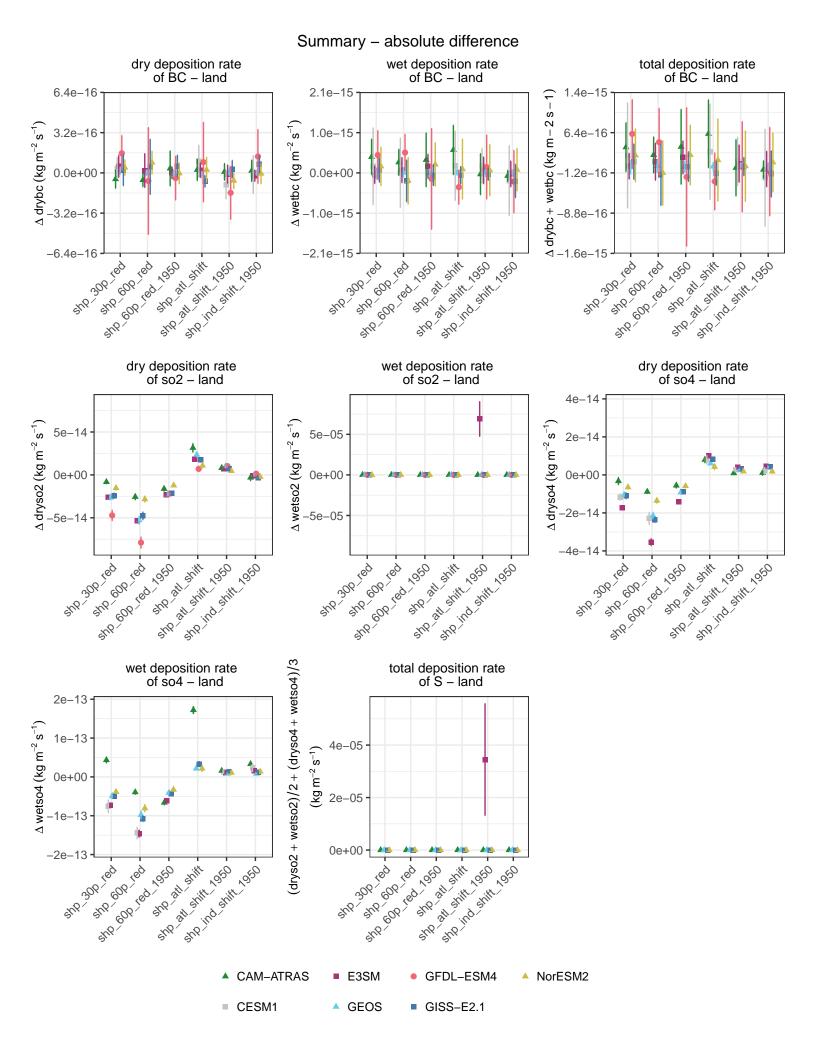
Summary – absolute difference



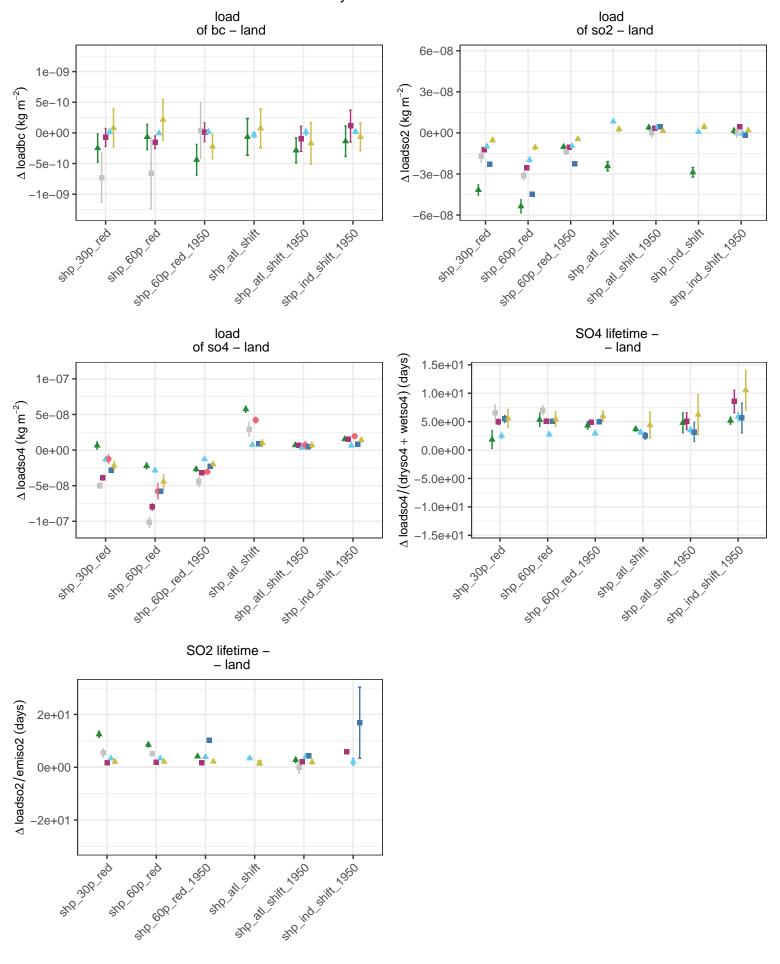
Summary - absolute difference upwelling longwave flux upwelling shortwave flux net radiative flux at TOA - land at TOA - land at TOA - land 1.0 1.0 1.0 Δ rlut + rsut (W m – 2) $\Delta \operatorname{rsut}(\operatorname{Wm}-2)$ Δ rlut (W m – 2) 0.5 0.5 0.5 0.0 0.0 0.0 -0.5 -0.5-0.5-1.0-1.0-1.0stp.jrd.stift.1950 stp.jrd.stift.1950 she on ted one sing all shift. Joseph she on ted oppo sing all shift. Jose SIR all SHIP. 1950 she on ted one sub en leg elb log leg snP at snift elb log leg STR all stiff snP at snift clear-sky net radiative flux implied cloud response at TOA incident shortwave flux at TOA - land land at TOA - land Δ rlut + rsut - rlutcs - rsutcs (W m⁻²) Δ rlutcs + rsutcs (W m – 2) 1.0 1.0 1.0 $\Delta \operatorname{rsdt} (\operatorname{Wm} - 2)$ 0.5 0.5 0.5 0.0 0.0 0.0 -0.5 -0.5 -0.5 ar all shift a Str. of Str. o STR Jall Stiff, 1950 STR Jall Stiff, 1950 -1.01.0 -1.0470 600 red 1950 310 600 red 7950 sto soo ted Jaso Pub log STR all shift sub enb leg STR 21 STIFF and both leg STR ST STIFF upwelling clear-sky shortwave upwelling clear-sky longwave flux at TOA - land flux at TOA - land 1.0 1.0 $\Delta \operatorname{rsutcs} (\operatorname{Wm} - 2)$ Δ rlutcs (W m-2) 0.5 0.5 0.0 0.0 -0.5 -0.5 -1.0-1.0STP JER SHIPL JOSO sto on red aso she jid shift 1950 SIRP all SHIPL JOBO SIN SHE SHELL SHE sto god led Jago STR ALL STIFF SNP all shift sub end teg sub en ling CAM-ATRAS ■ E3SM GFDL-ESM4 NorESM2 CESM1 GEOS GISS-E2.1

Summary - absolute difference





Summary – absolute difference



▲ CAM-ATRAS

CESM1

■ E3SM

GEOS

NorESM2

Summary – absolute difference Δ clear – sky shortwave flux (W m $^{-2})$ 0.04 -0.10 -0.10 - Δ shortwave flux (W $\rm m^{-2})$ Δ shortwave flux (W m⁻²) 0.05 -0.02 0.05 0.00 -0.05 **-**0.00 -0.10 **-**-0.05 5e-08 -1e-07 -5e-08 0e+00 -6e-08 -4e-08 -2e-08 10 20 30 Δ SO4 column burden (kg m⁻²) Δ SO2 column burden (kg m⁻²) Δ SO2 lifetime (days) Δ SO4 column burden (kg m⁻²) 30 -∆ SO2 lifetime (days) ∆ SO4 lifetime (days) 20 **-**0 -0e+00 -6e-08 -4e-08 -2e-08 0e+00 -6e-08 -4e-08 -2e-08 -5e-08 0e+00 Δ SO2 column burden (kg m⁻² Δ SO2 column burden (kg m⁻²) Δ SO4 column burden (kg m⁻²) 0.10 -5e-14 - Δ SO2 column burden (kg m $^{-2}$ 0e+00 - Δ net radiative flux (W $\mathrm{m}^{-2})$ 0.05 Δ DMS (mol mol⁻¹) 2e-08 -0.05 **-**4e-08 -0.10 **-**-1e-13 · -6e-08 -7.5e-145.0e-142.5e-110.0e+00 -6e-08 -4e-08 -2e-08 -6e-08 -4e-08 -2e-08 0e+00 Δ SO2 (kg kg⁻¹) Δ SO2 lifetime (days) Δ SO2 column burden (kg m⁻²)

CAM-ATRAS

CESM1

-E3SM

GEOS

GFDL-ESM4

→ GISS-E2.1

-NorESM2