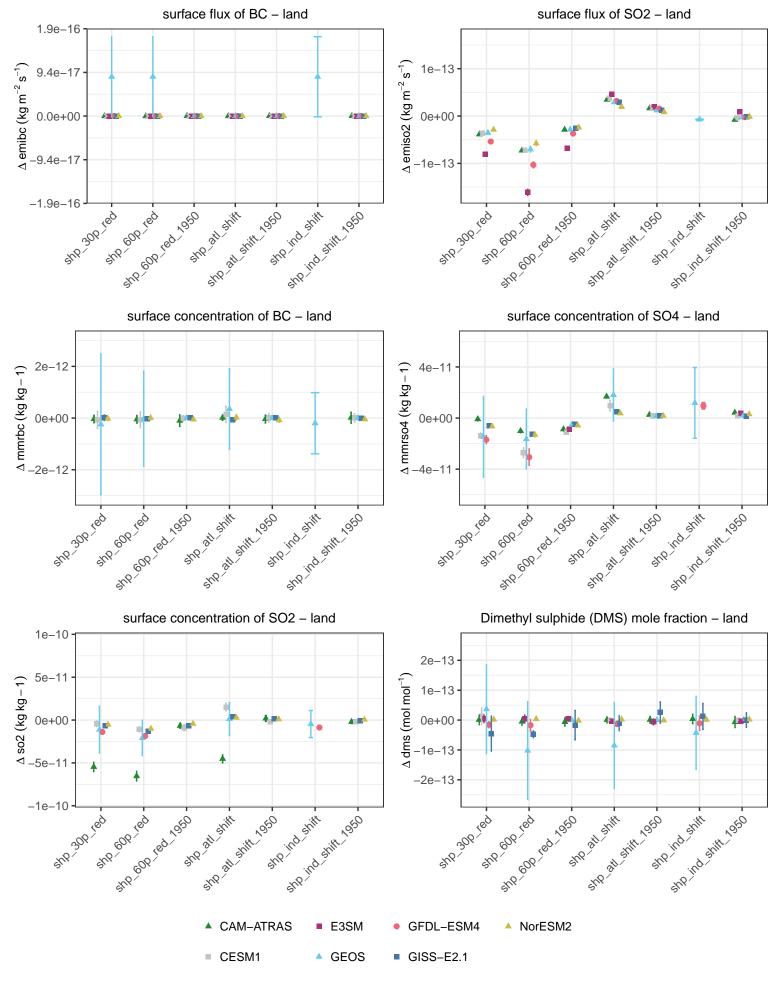
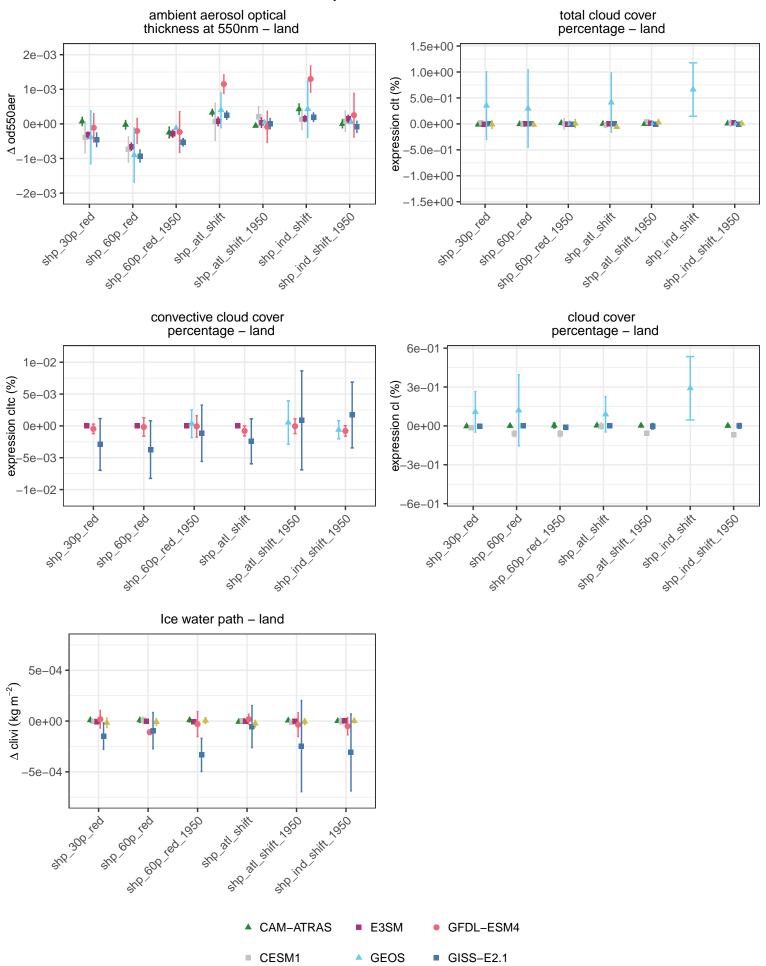
Summary – absolute difference



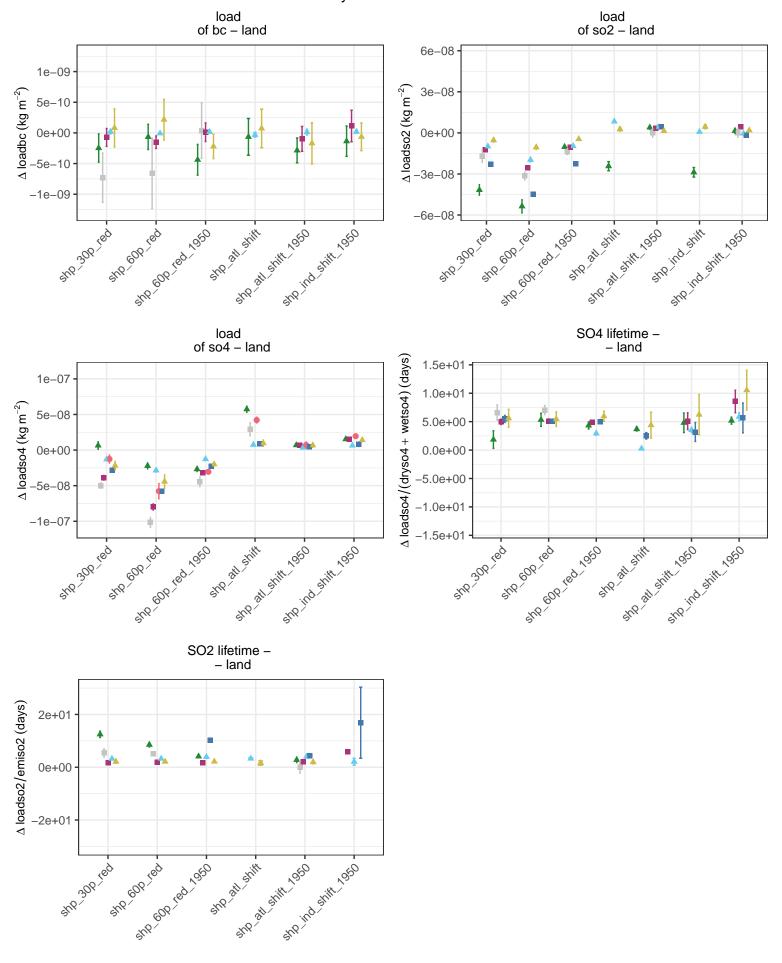
Summary - absolute difference upwelling longwave flux upwelling shortwave flux net radiative flux at TOA - land at TOA - land at TOA - land 1.0 1.0 1.0 Δ rlut + rsut (W m – 2) Δ rlut (W m – 2) $\Delta \operatorname{rsut}(\operatorname{Wm}-2)$ 0.5 0.5 0.5 0.0 0.0 0.0 -0.5 0.5-0.5-1.0-1.0-1.0sho ind shift 1950 +10 600 red 1950 ste all stift, 1950 310 600 red 1950 sho ind shift 1950 sto all still, oso stip all stift. Jose she ind shift snP at shift she ind shift STR all STIFF she ind shift sub end ing snp at shift elb log sub end ing clear-sky net radiative flux implied cloud response at TOA incident shortwave flux ať TOA - 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 -1.01.0 -1.0SHR all SHIP. and ind shift 1950 + 1050 + SHP all SHIR. \$18 600 led 1950 arry and Stiff 1950 Str. ind Stift 1950 Storid Still 950 STR ind shift snP at shift sno ind shift STP all shift she ind shift Sub end leg STR all STIFF SUB OB Tog sub en leg 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 -1.0-1.0+10 600 red 1050 SHP all SHIP. sho ind shift 1950 +10 600 red 1050 SHP all SHIT, Jobo Str. Ind. Stift. 1950 STR at Shift snp ind shift SIRP all SHIFT stp.ind.shift Sub edb leg \$10³⁰⁰ Jed sub en leg CAM-ATRAS ■ E3SM GFDL-ESM4 NorESM2 CESM1 GEOS GISS-E2.1

Summary - absolute difference



Summary - absolute difference dry deposition rate wet deposition rate total deposition rate of BC - land of BC - land of BC - land 7.3e-15 Δ drybc + wetbc (kg m – 2 s – 1) 2e-14 2e-14 Δ wetbc (kg m⁻² s⁻¹) Δ drybc (kg m⁻² s⁻¹) 3.6e-15 1e-14 1e-14 0.0e+00 0e+00 0e+00 -–1e–14 3.6e-15 -2e-14 SIP 201 SINK 1950 SINK C -1e-14 314 600 181 1950 -SHO IND SHIP JOSO 3.14 600 fed 1950 318 600 fed 1950 SIR SHELL SHELL SHE STR ON STITE OF STREET sur ind shift 1950 snP ind snift -7.3e-15 sub 300 leg - 1600 red dry deposition rate dry deposition rate wet deposition rate of so2 - land of so2 - land of so4 - land 1e-13 Δ dryso2 (kg m⁻² s⁻¹) $\Delta \, dryso4 \, (kg \, m^{-2} \, s^{-1})$ Δ wetso2 (kg m⁻² s⁻ 1e-13 5e-05 5e-14 0e+00 0e+00 0e+00 5e-14 -5e-05 1e-13 Sto and Stiff, OSO Stiff, of Store of S 410 600 fed 1950 and god led Jogo Sto off Stiff 1960 SHO all Shirty ind Str. Ind. Stift. 1950 and old led by Str. ind Stift 1950 SIR all SHIFT -1e-13 , 600 leg she ind shift SUB TOO (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3wet deposition rate total deposition rate of so4 - land of S - land 6e-13 Δ wetso4 (kg m⁻² s⁻¹) 3e-13 4e-05 $(kg m^{-2} s^{-1})$ 0e+00 2e-05 3e-13 STR 3H STR, IND STR. IND STR. STR. STR. STR. IND one of Still Still ind still s -6e-13 0e+00 -400 100 m 314 60 54 4 1 sto ind shift 1950 , 600 leg sing. sub 300 leg CAM-ATRAS ■ E3SM GFDL-ESM4 NorESM2 CESM1 GEOS GISS-E2.1

Summary - absolute difference



▲ CAM-ATRAS

CESM1

■ E3SM

GEOS

NorESM2

