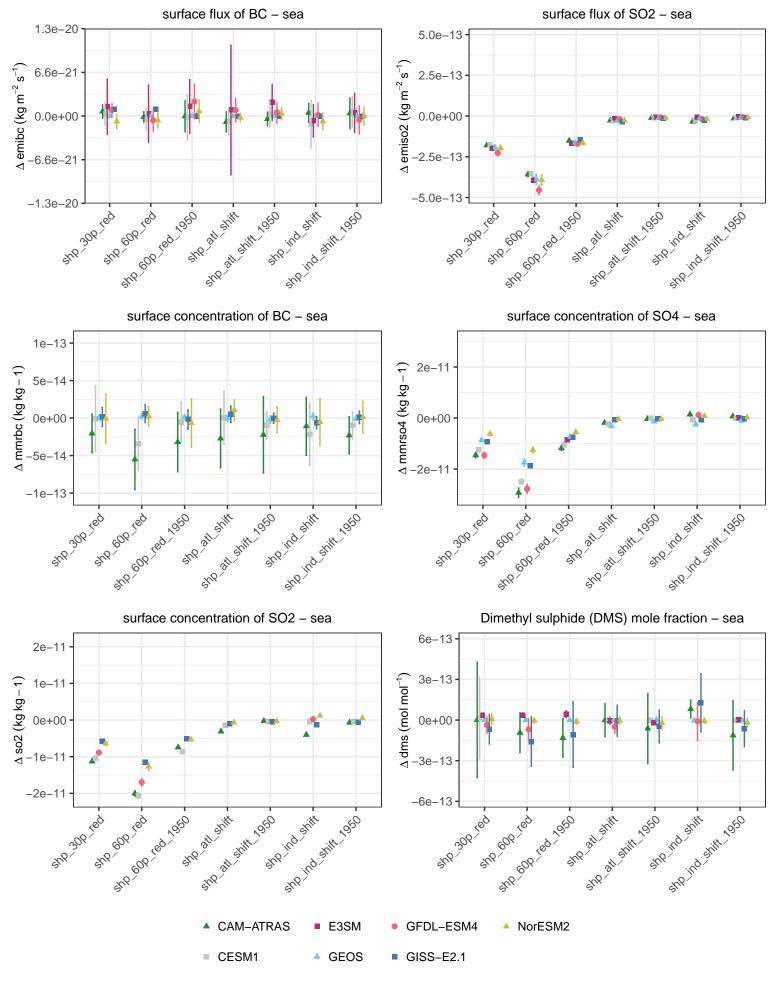
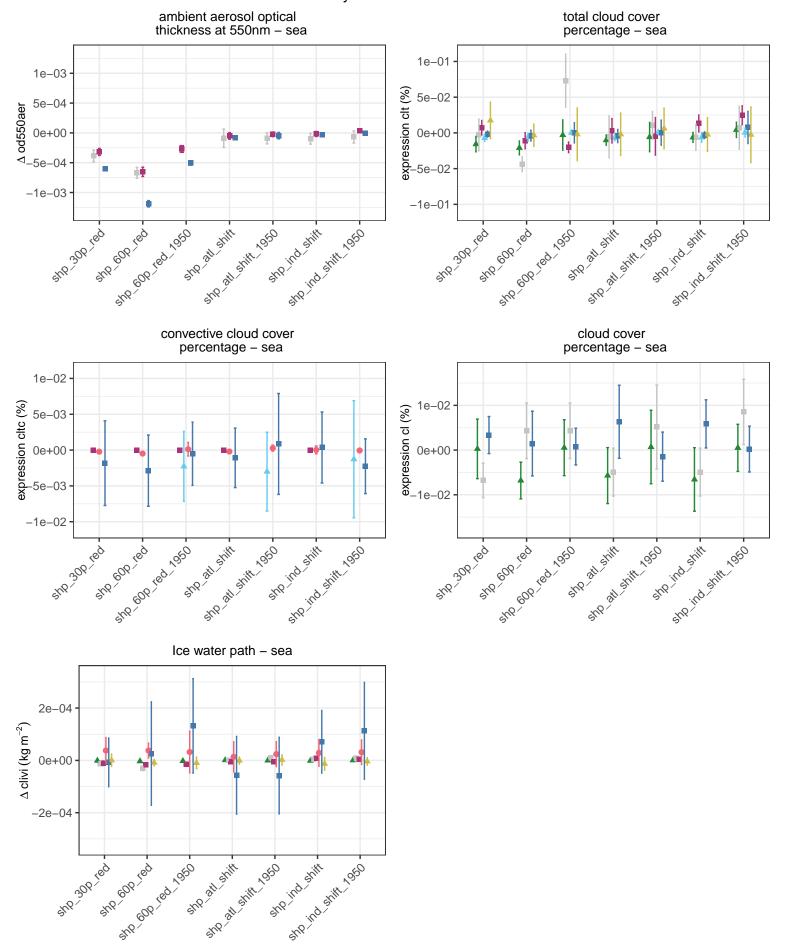
Summary – absolute difference



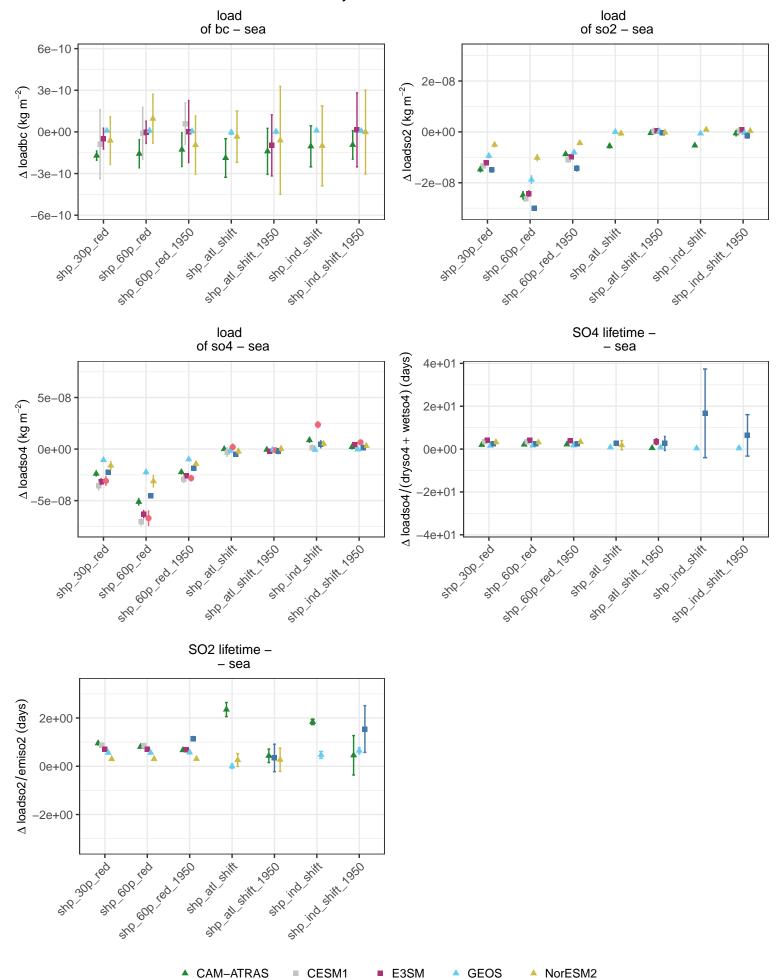
Summary - absolute difference upwelling longwave flux upwelling shortwave flux net radiative flux at TOA - sea at TOA - sea at TOA - sea 1.0 1.0 1.0 Δ rlut + rsut (W m – 2) Δ rlut (W m – 2) $\Delta \operatorname{rsut}(\operatorname{Wm}-2)$ 0.5 0.5 0.5 0.0 0.0 0.0 -0.5 -0.5-0.5-1.0-1.0-1.0sho ind shift 1950 410 600 red 1950 sto all stift, 1950 310 600 red 1950 sho ind shift 1950 ste off stift, ogso ste all stift. Jose she ind shift snP at shift she ind shift STR all STIFF she ind shift elle last snp at shift elb log sub end ing clear-sky net radiative flux implied cloud response at TOA incident shortwave flux at TOA - sea at TOA - sea 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 -1.0SHO ALL SHIP. 1950 stp. ind stift. 1950 +1000 Fed 1050 +10 600 led 1950 STR 2d Stiff 1959 Str. ind Stift 1950 SHO IN SHIP. 1950 SHP ind shift STR 3H SHIP. 1980 sub en lag snP att shift sno ind shift snP att shift she ind shift Sub end leg STR all STIFF Sub Edd Teg upwelling clear-sky shortwave upwelling clear-sky longwave flux at TOA - sea flux at TOA - sea 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 and ind shift 1950 STR at Shift snp ind shift SIRP all SHIFT she jud shift sub eab ing sub 300 leg 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 - sea of BC - sea of BC - sea 1.3e-16 6.8e-16 5.4e-16 Δ drybc + wetbc (kg m – 2 s – 1) Δ drybc (kg m⁻² s⁻¹) Δ wetbc (kg m⁻² s⁻¹) 6.6e-17 3.4e-16 2.9e-16 0.0e+000.0e + 003.2e-17 6.6e-17 3.4e-16 2.2e-16 3118 600 181 1950 1 Str. or Str. ing SHO IND SHIP JOSO 3.14.60 18d 1850 ork of diff. 214 90 184 1850 + Str. ind Stift 1950 + -1.3e-16 sub 300 leg -6.8e-16 ste 300 teg -4.7e-16 stre 300 teg dry deposition rate wet deposition rate dry deposition rate of so2 - sea of so2 - sea of so4 - sea 5.0e-14 4e-05 Δ dryso2 (kg m⁻² s⁻¹) 2e-13 Δ wetso2 (kg m⁻² s⁻¹) Δ dryso4 (kg m⁻² s⁻¹ 2.5e-14 2e-05 0e+00 0e+00 0.0e+00-2e-05 -2.5e-14 2e-13 Sto of State 410 600 Fed 1950 one of all alith. Sto Still Still Store and on the same sir ind shift 1950 -4e-05 she ind shirt 1980 , 600 leg sno ind shift she ind shift , 600 tog -5.0e-14 sing 300 fed sing 300 teg sin 600 teg (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3wet deposition rate total deposition rate of S - sea of so4 - sea 0.0e+00 - 12 12 12 12 12 2e-13 Δ wetso4 (kg m⁻² s⁻¹) -5.0e-06 1e-13 -1.0e-05 $(kg m^{-2})$ 0e+00 1.5e-05 1e-13 -2.0e-05 -2e-13 bred saffitt, luy of SW SH SHIP. -2.5e-05 Stopped Stift 1950 31490 Str. 4 sno ind shift उत्तर मार्ग उत्तर के कि जाते होती. १९६० इति मार्ग असी असी १९६० sub 300 teg CAM-ATRAS ■ E3SM GFDL-ESM4 NorESM2 CESM1 GEOS GISS-E2.1

Summary - absolute difference



Summary - absolute difference Δ clear – sky shortwave flux (W m $^{-2}$) Δ shortwave flux (W $\rm m^{-2})$ Δ shortwave flux (W m⁻²) 0.2 -0.2 -0.02 -0.1 -0.01 -0.00 -0.0 0.0 --6e-08 -3e-08 0e+00 Δ SO2 column burden (kg m $^{-2}$) Δ SO4 column burden (kg m⁻²) Δ SO2 lifetime (days) Δ SO4 column burden (kg m $^{-2})$ 0e+00 30 -∆ SO4 lifetime (days) ∆ SO2 lifetime (days) 20 -10 -0 --6e-08 -3e-08 0e+00 -2e-08 -1e-08 ∆ SO2 column burden (kg m⁻² Δ SO2 column burden (kg m⁻²) Δ SO4 column burden (kg m⁻²) 0e+00 Δ SO2 column burden (kg m $^{-2}$) Δ net radiative flux (W m⁻²) 0.15 2.5e-13 Δ DMS (mol mol⁻¹) 0.10 1e-08 0.0e+00 0.05 2e-08 0.00 -2.5e-13 -0.05-3e-08 -2e-08 -1e-08 -2.0e-11.5e-11.0e-15.0e-020e+00 -3e-08 -2e-08 -1e-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