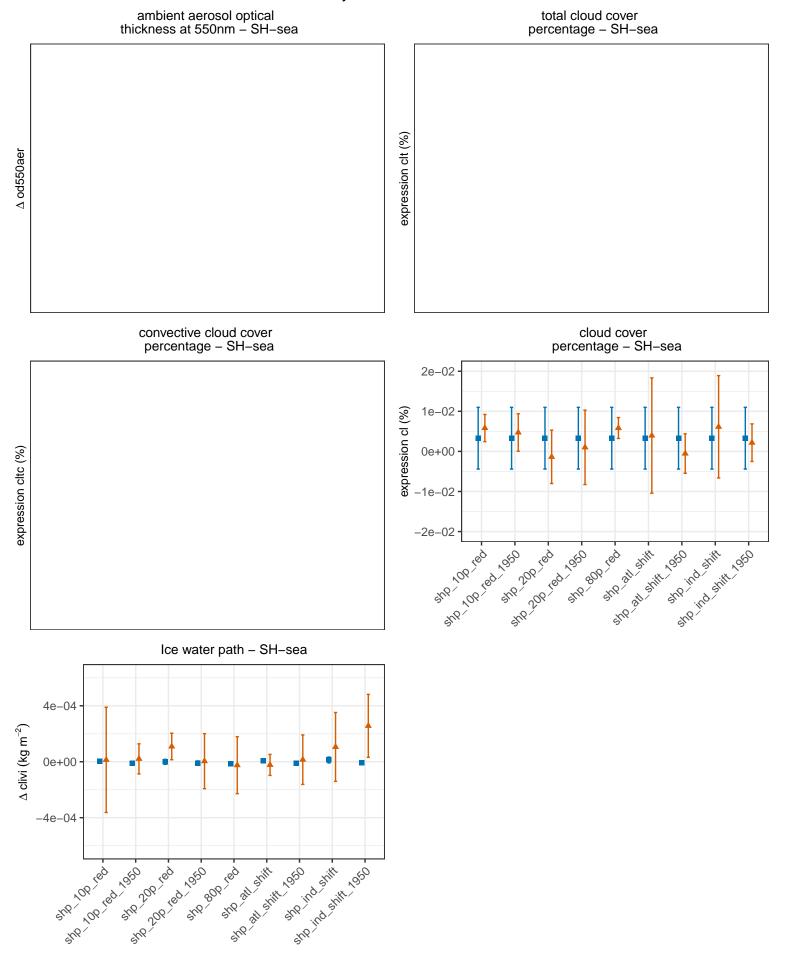


Summary – absolute difference upwelling longwave flux upwelling shortwave flux at TOA – SH–sea net radiative flux at TOA - SH-sea at TOA - SH-sea 2e-01 2e-01 5e-02 1e-01 1e-01 Δ rlut rsut (W m – 2) $\Delta \operatorname{rsut}(\operatorname{Wm}-2)$ $\Delta rlut (Wm-2)$ 0e+00 0e+00 0e+00 -1e-01 -1e-01 -5e-02 -2e-01 -2e-01 incident shortwave flux upwelling clear-sky longwave upwelling clear-sky shortwave at TOA - SH-sea flux at TOA - SH-sea flux at TOA - SH-sea 5.0e-02 3e-02 2e-02 2e-02 2.5e-02 $\Delta \operatorname{rsutcs} (\operatorname{Wm} - 2)$ Δ rlutcs (W m – 2) $\Delta \operatorname{rsdt} (\operatorname{Wm} - 2)$ 1e-02 1e-02 0.0e+000e+00 0e+00 -1e-02 -1e-02 -2.5e-02 -2e-02 tre -2e-02 -3e-02 -5.0e-02 clear-sky net radiative flux implied cloud response at TOA at TOA - SH-sea SH-sea Δ rlut + rsut – rlutcs – rsutcs (W m $^{-2}$) 4e-02 - Δ rlutcs rsutcs (W m – 2) 1e-01 2e-02 0e+00 0e+00 -2e-02 -1e-01 sto all still ind still oso -4e-02 CESM1 **GISS**

Summary - absolute difference



CESM1

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Summary – absolute difference wet deposition rate of BC – SH–sea dry deposition rate total deposition rate of BC – SH–sea of BC - SH-sea 7.7e-17 3.7e-16 4.8e-16 Δ drybc + wetbc (kg m – 2 s – 1) Δ drybc (kg m⁻² s⁻¹) 3.8e-17 2.4e-16 1.9e-16 Δ wetbc (kg m⁻² s⁻¹) 0.0e + 000.0e + 009.3e-18 -3.8e-17 -2.4e-16 –1.7e–16 -7.7e-17 -4.8e-16 -3.5e-16 7/080 dry deposition rate wet deposition rate dry deposition rate of so2 - SH-sea of so2 - SH-sea of so4 - SH-sea 1.7e-17 2e-14 1e-13 Δ dryso2 (kg m⁻² s⁻¹) Δ wetso2 (kg m⁻² s⁻¹) Δ dryso4 (kg m⁻² s⁻¹) 8.4e-18 1e-14 5e-14 0e+00 0.0e+000e+00 -5e-14 -1e-14 -8.4e-18 -1e-13 -2e-14 -1.7e-17 wet deposition rate total deposition rate (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3of so4 - SH-sea of S - SH-sea 1e-13 1e-13 Δ wetso4 (kg m $^{-2}$ s $^{-1}$) 5e-14 5e-14 $(kg m^{-2} s^{-1})$ 0e+00 0e + 00-5e-14 -5e-14 -1e-13 -1e-13 CESM1 **GISS**