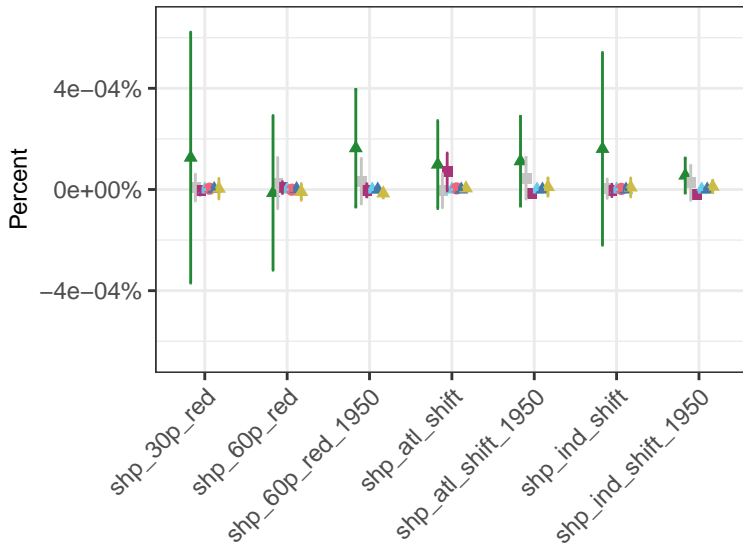
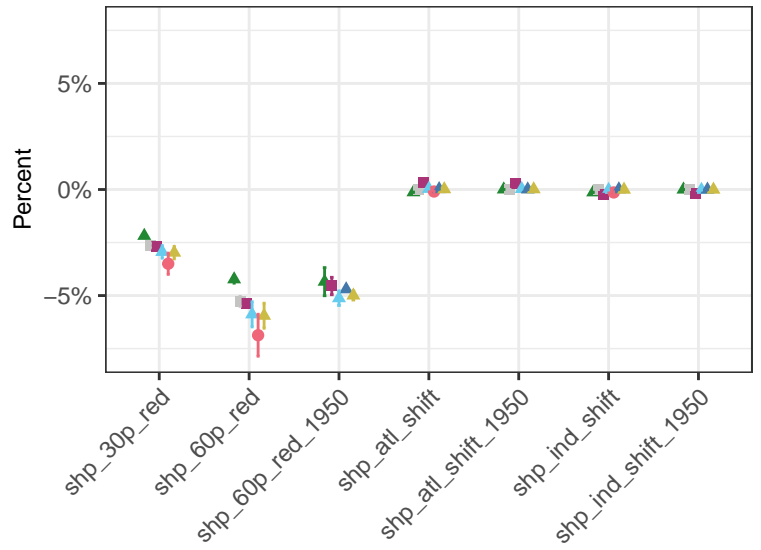


Summary – percent difference

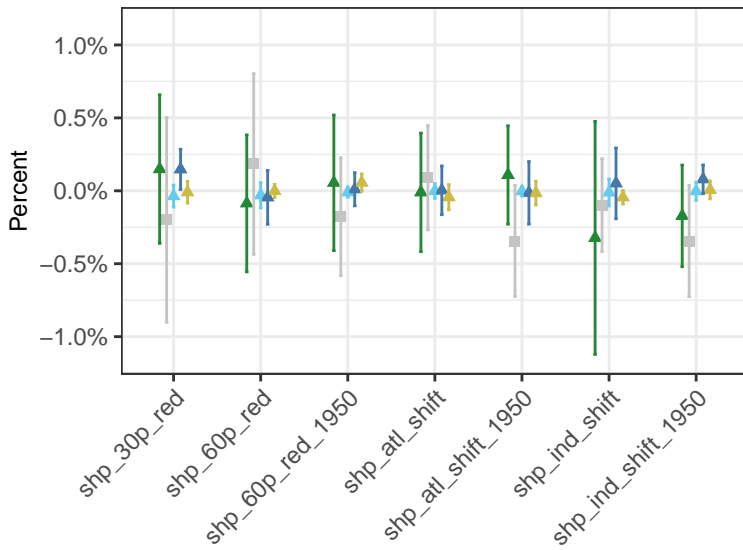
surface flux of BC – arctic



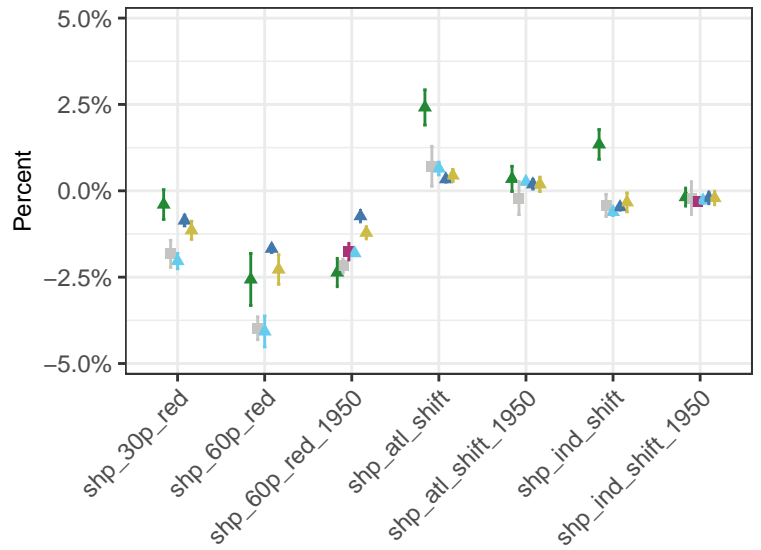
surface flux of SO2 – arctic



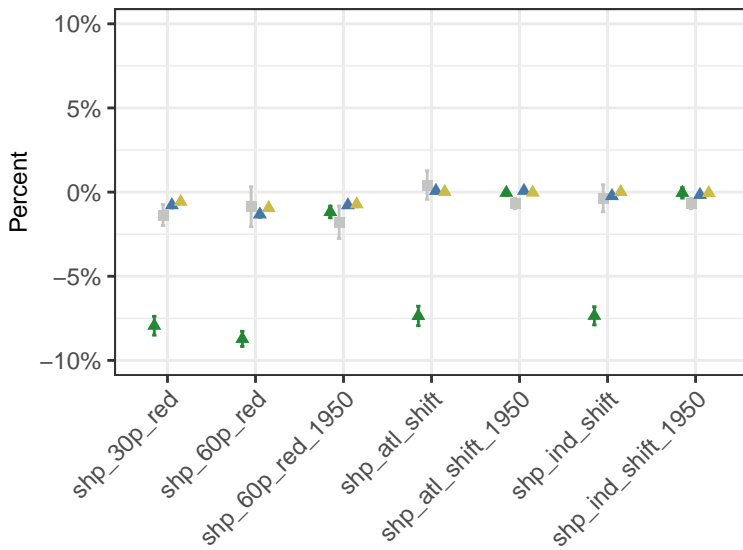
surface concentration of BC – arctic



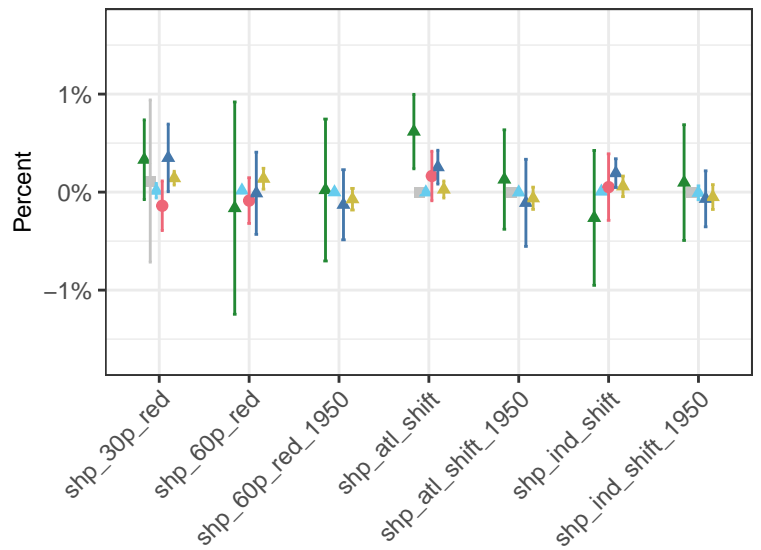
surface concentration of SO4 – arctic



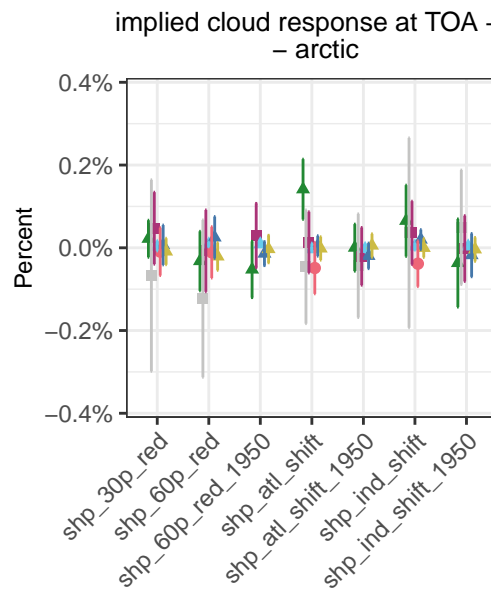
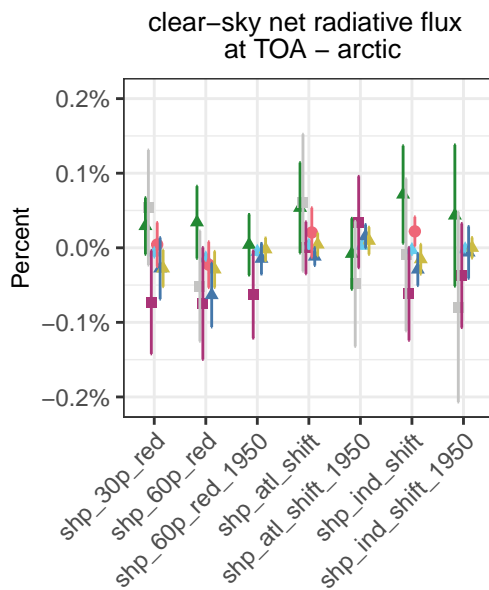
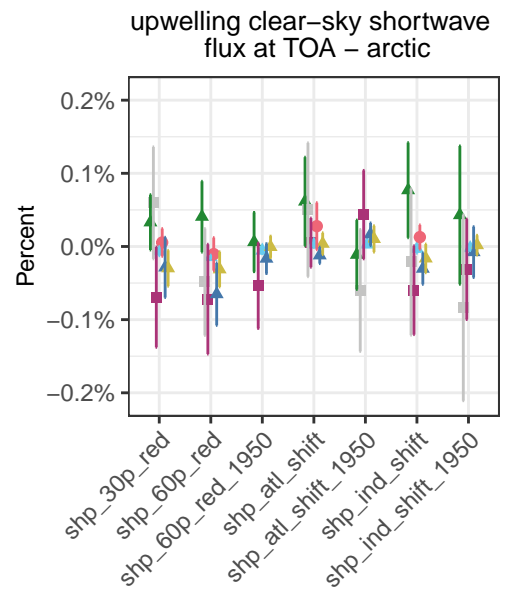
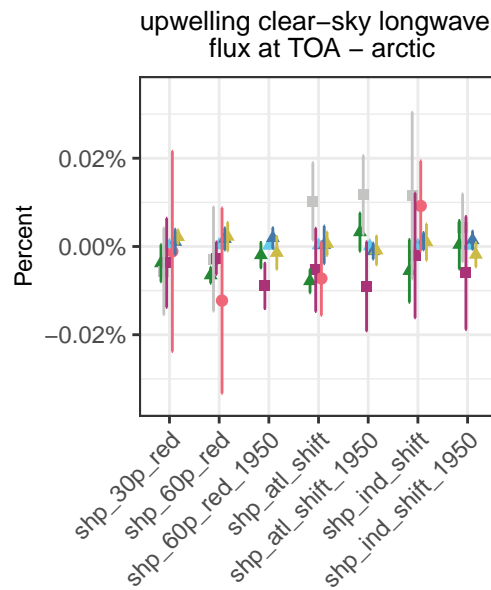
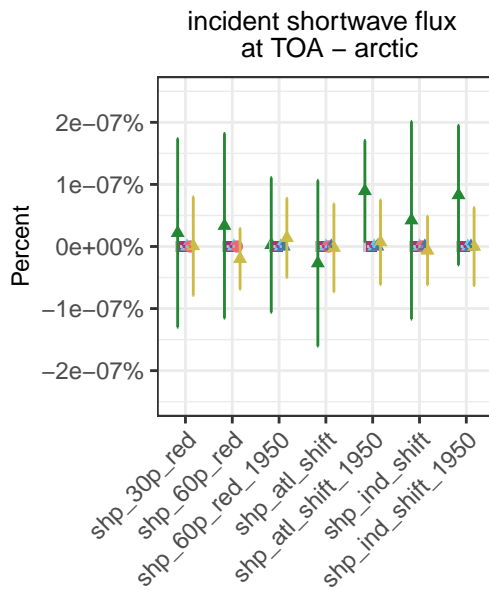
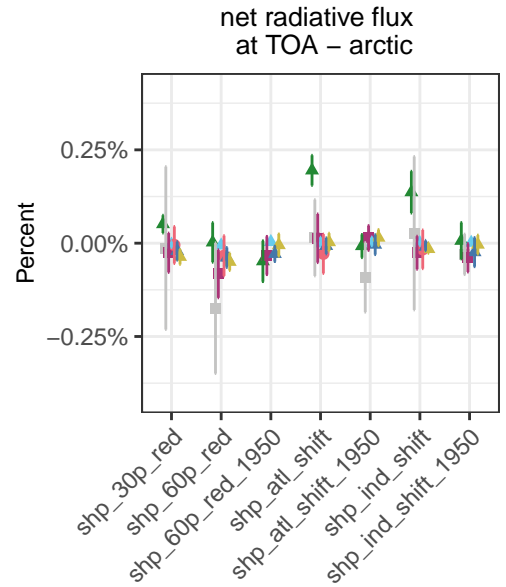
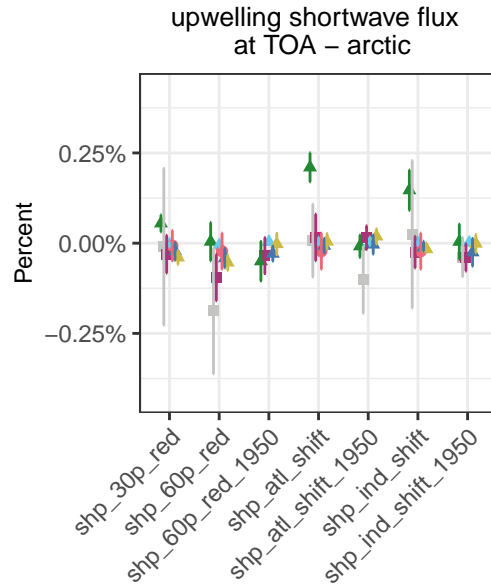
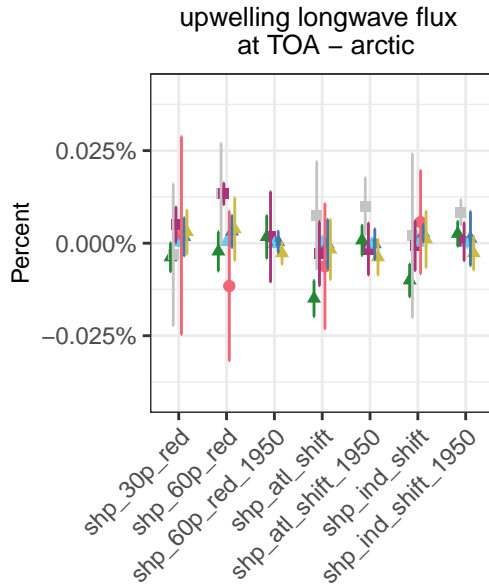
surface concentration of SO2 – arctic



Dimethyl sulphide (DMS) mole fraction – arctic

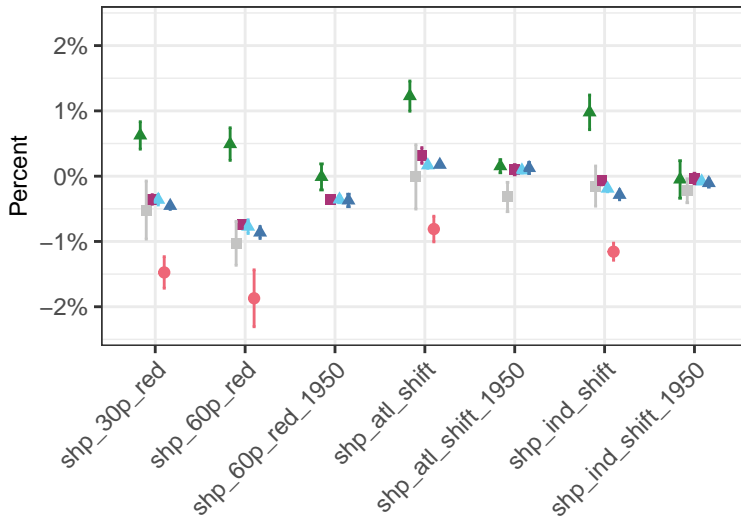


Summary – percent difference

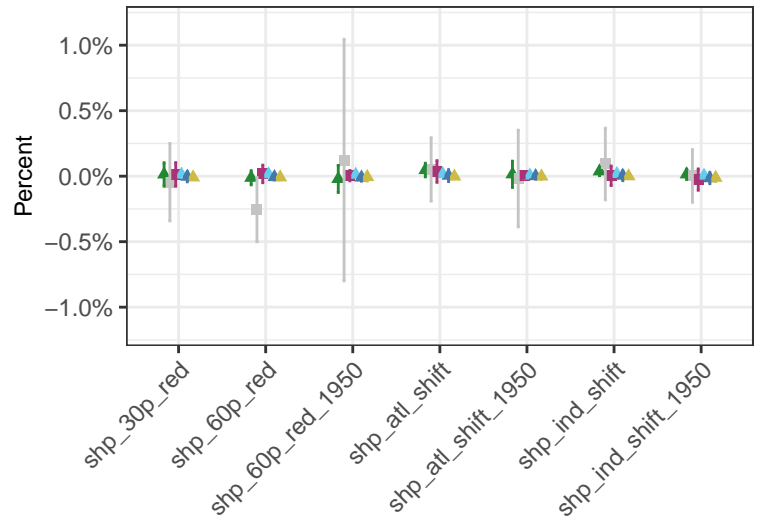


Summary – percent difference

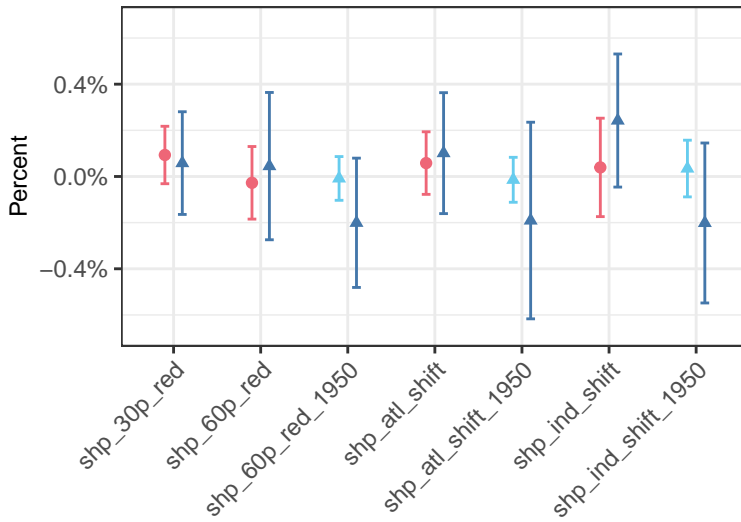
ambient aerosol optical
thickness at 550nm – arctic



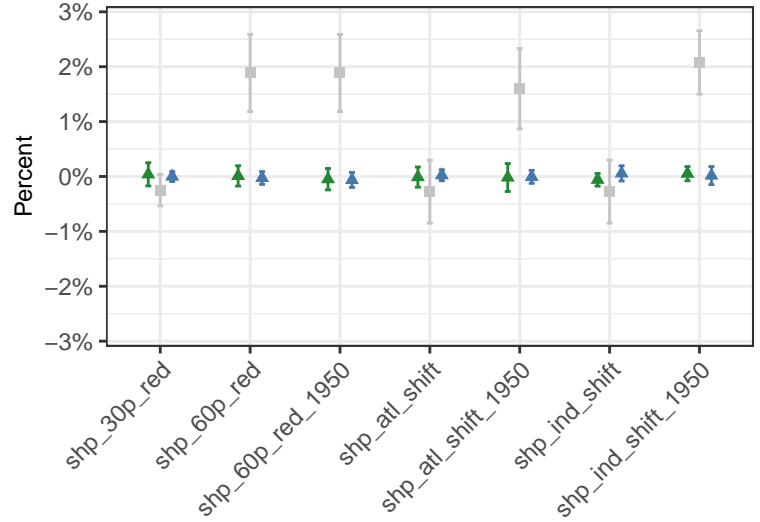
total cloud cover
percentage – arctic



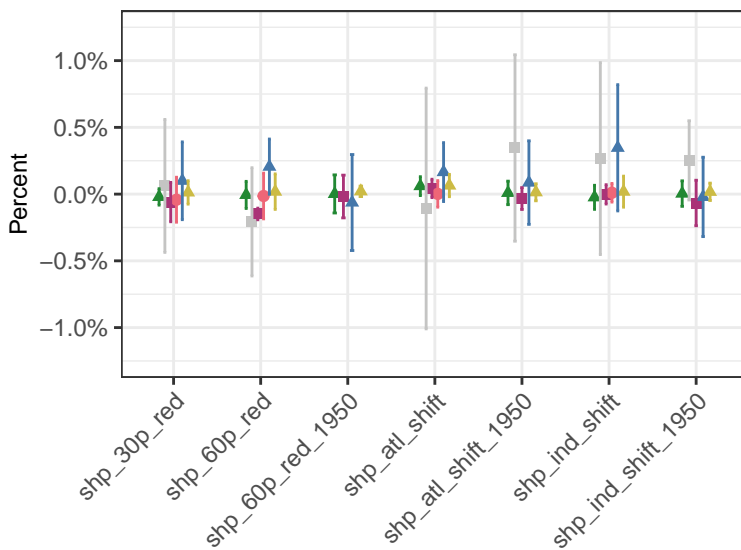
convective cloud cover
percentage – arctic



cloud cover
percentage – arctic



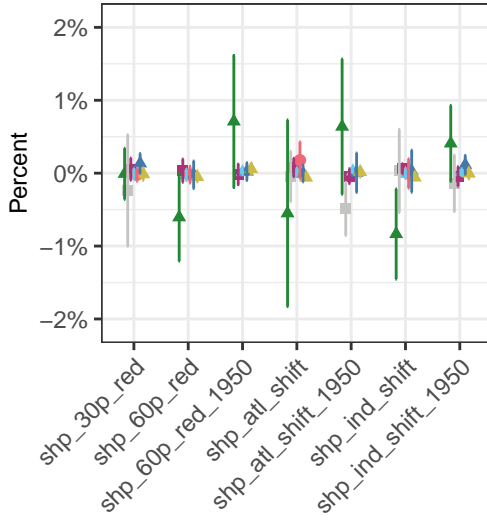
Ice water path – arctic



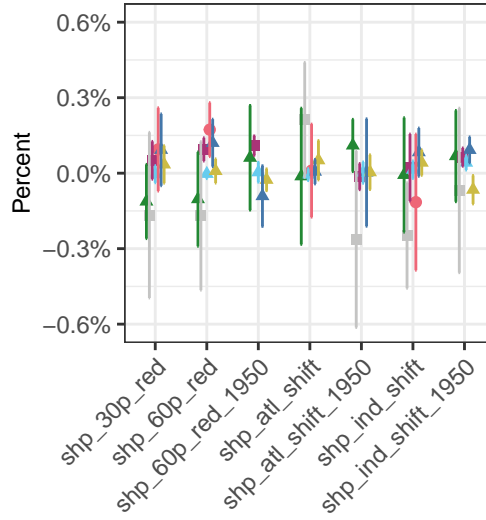
▲ CAM-ATRAS ■ E3SM ● GFDL-ESM4
■ CESM1 ▲ GEOS ▲ GISS-E2.1

Summary – percent difference

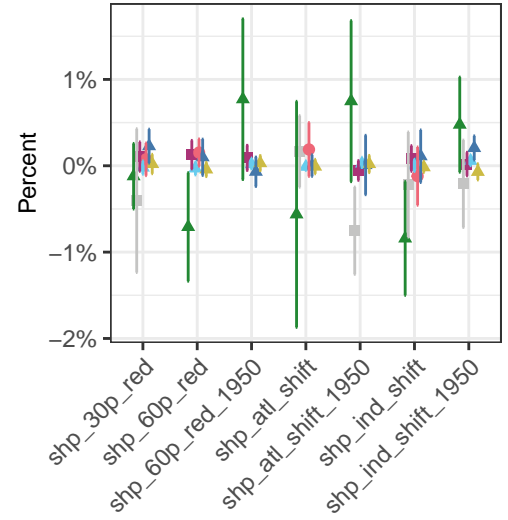
dry deposition rate
of BC – arctic



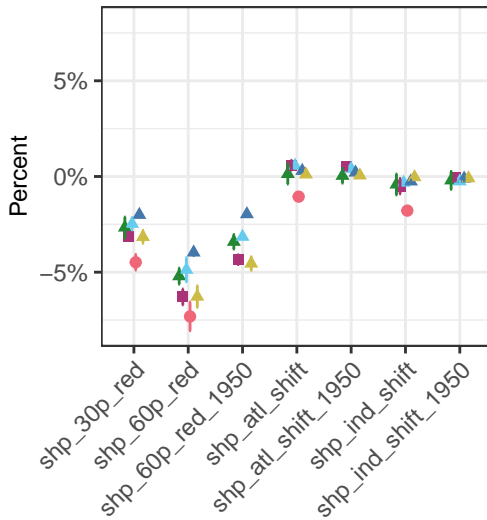
wet deposition rate
of BC – arctic



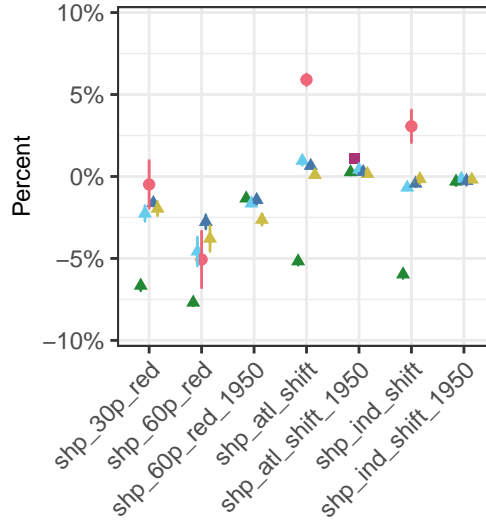
total deposition rate
of BC – arctic



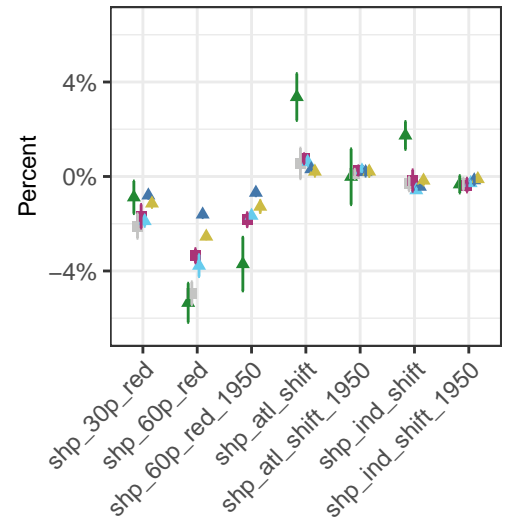
dry deposition rate
of so2 – arctic



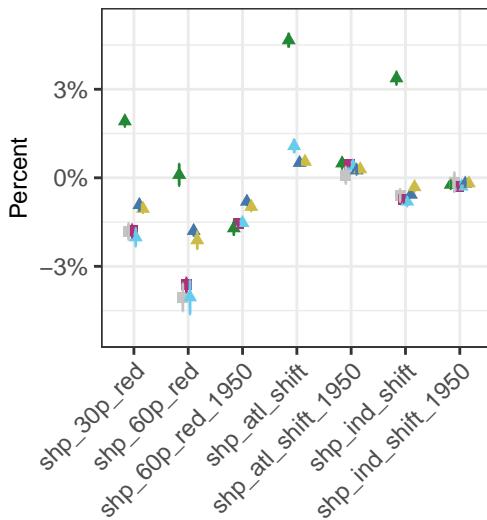
wet deposition rate
of so2 – arctic



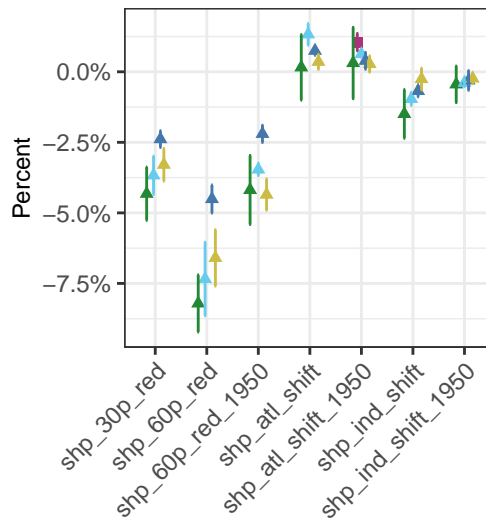
dry deposition rate
of so4 – arctic



wet deposition rate
of so4 – arctic

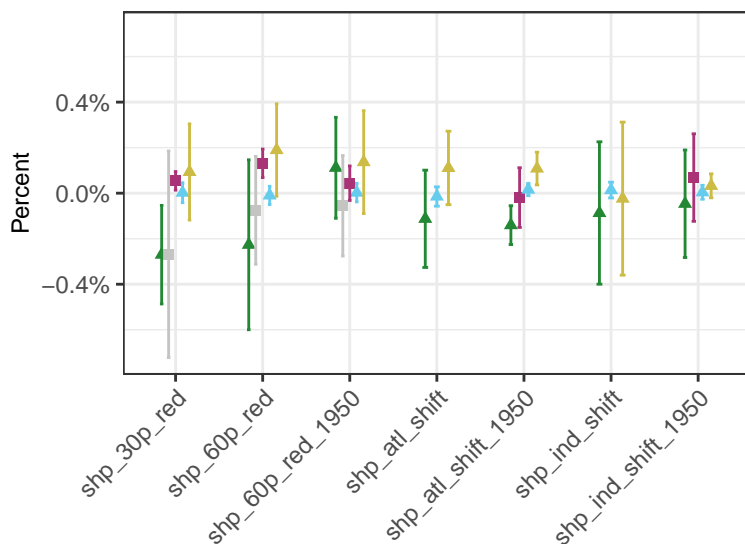


total deposition rate
of S – arctic

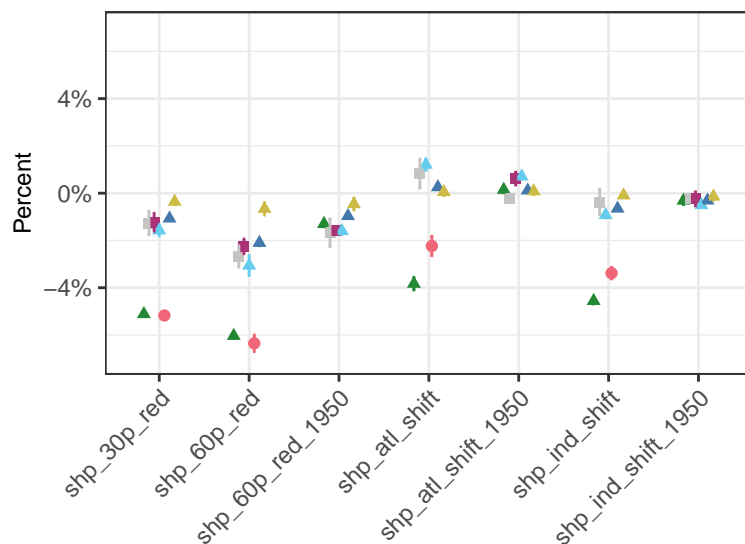


Summary – percent difference

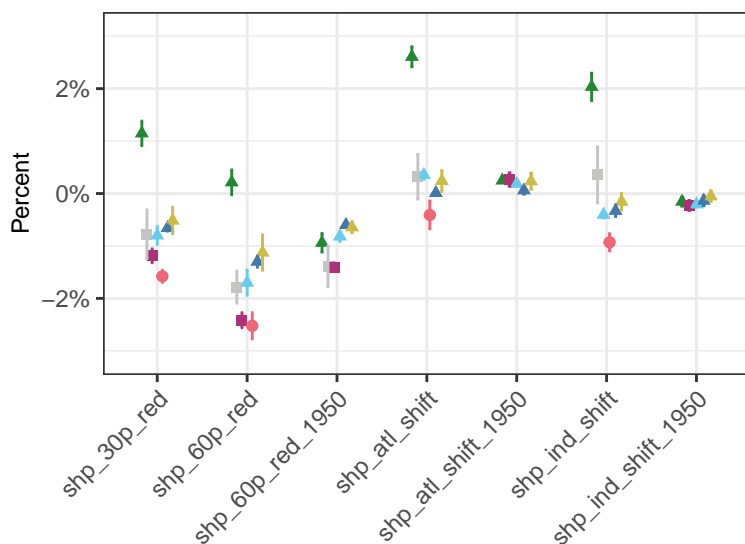
load
of bc – arctic



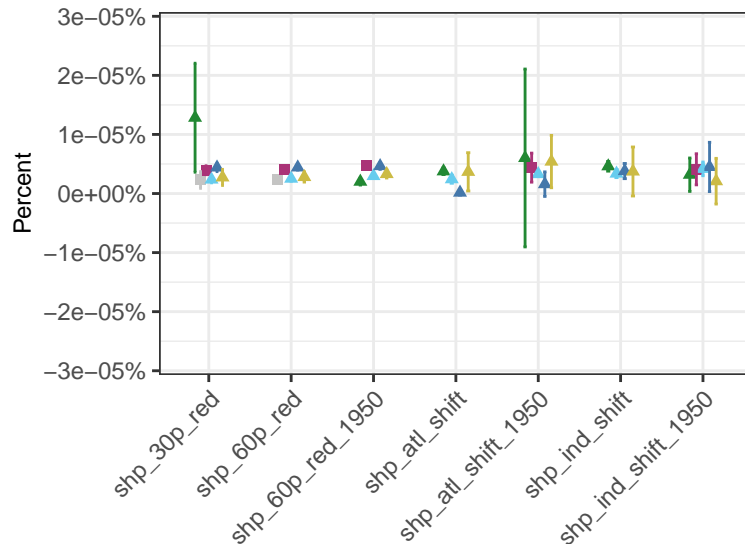
load
of so2 – arctic



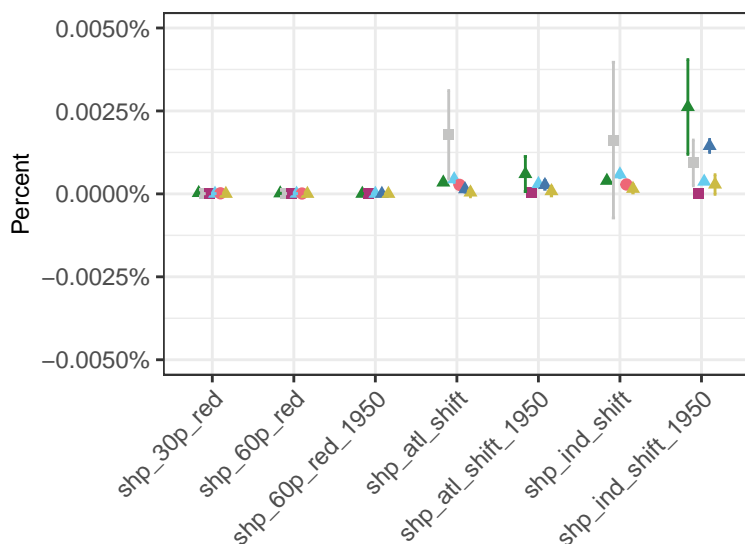
load
of so4 – arctic



SO4 lifetime –
– arctic



SO2 lifetime –
– arctic



▲ CAM-ATRAS ■ CESM1 ■ E3SM ▲ GEOS ▲ NorESM2