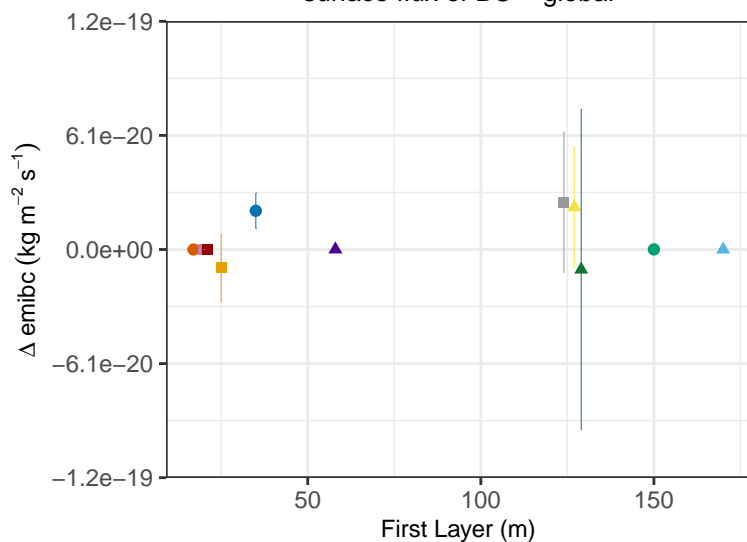
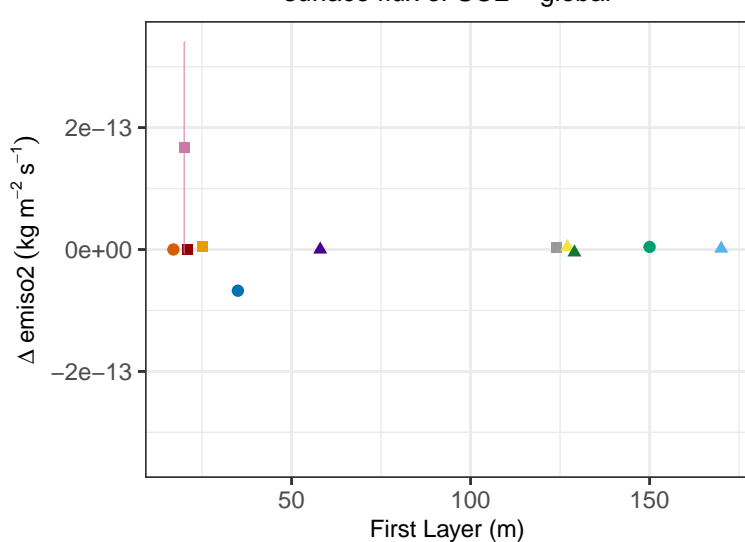


1st Model Layer Summary: SO₂-at-height (absolute difference)

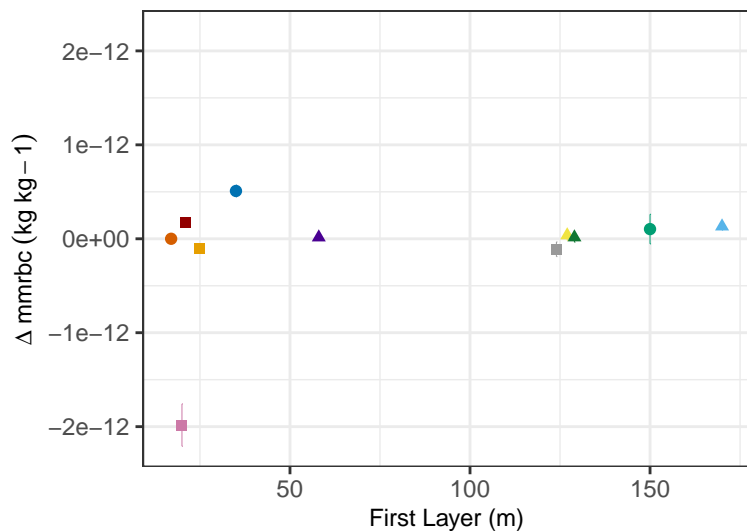
surface flux of BC – global



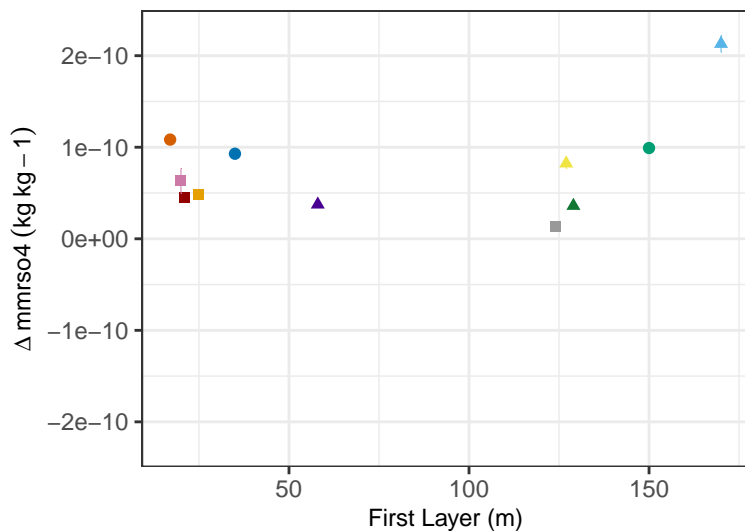
surface flux of SO₂ – global



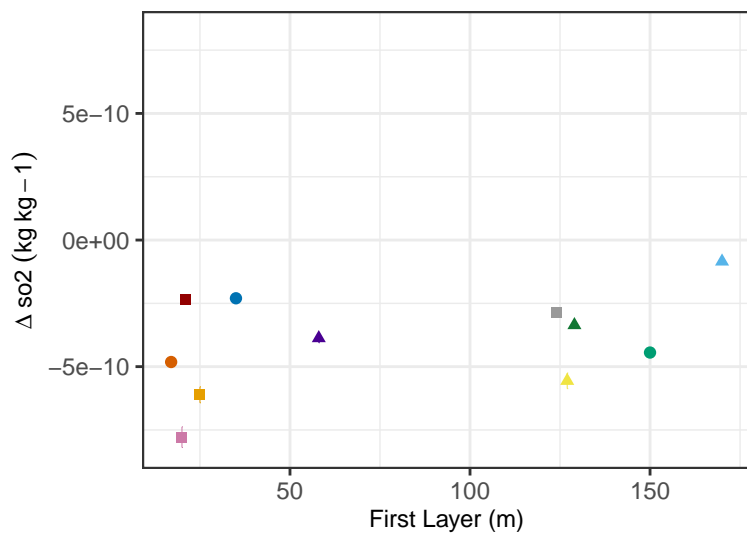
surface concentration of BC – global



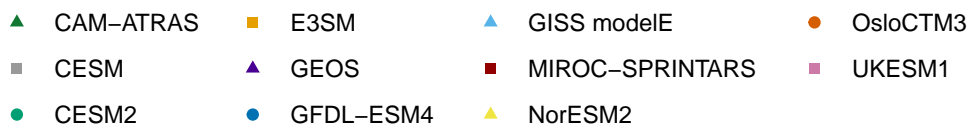
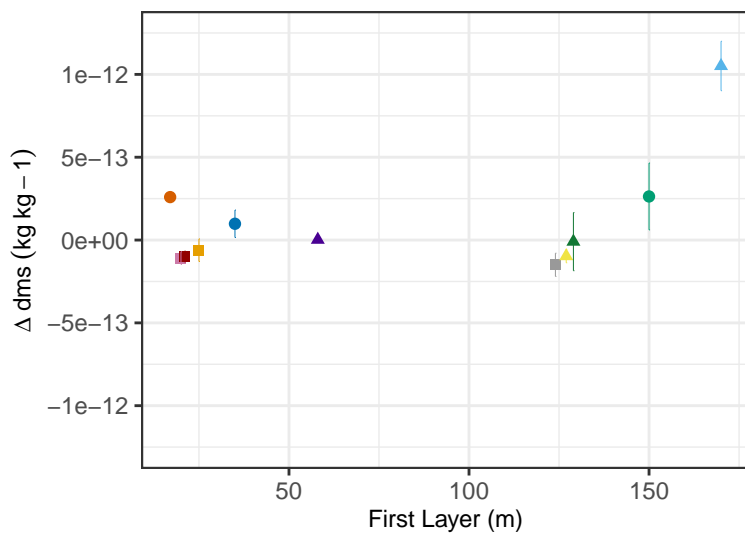
surface concentration of SO₄ – global



surface concentration of SO₂ – global

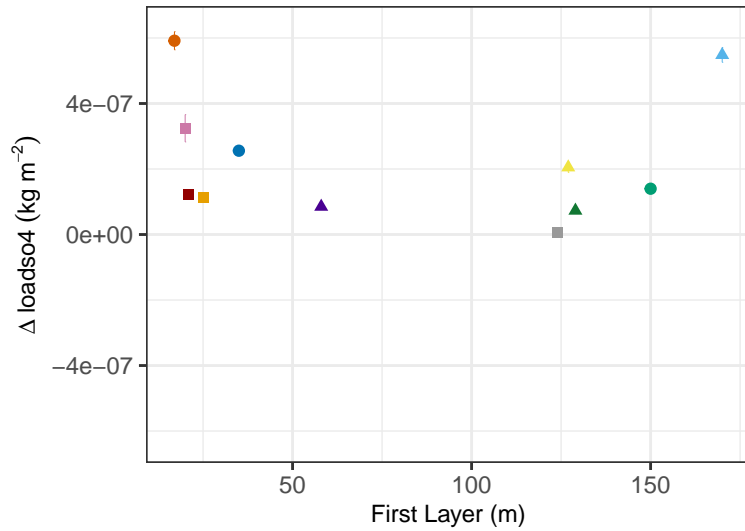


surface concentration of DMS – global

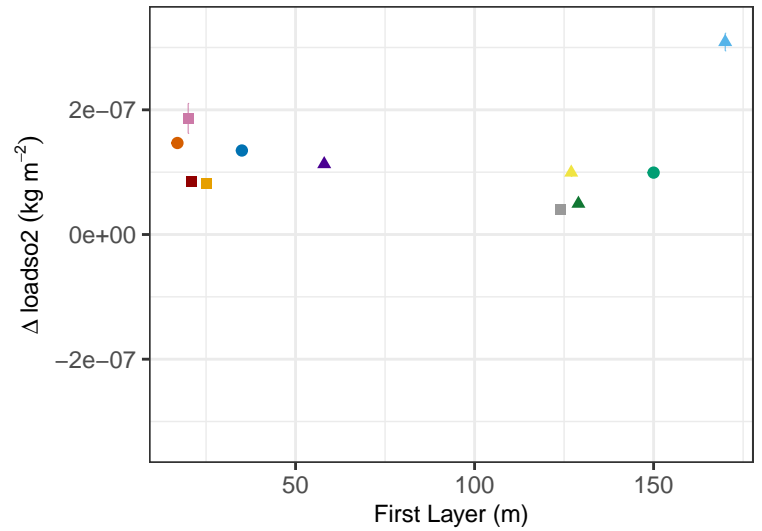


1st Model Layer Summary: SO₂-at-height (absolute difference)

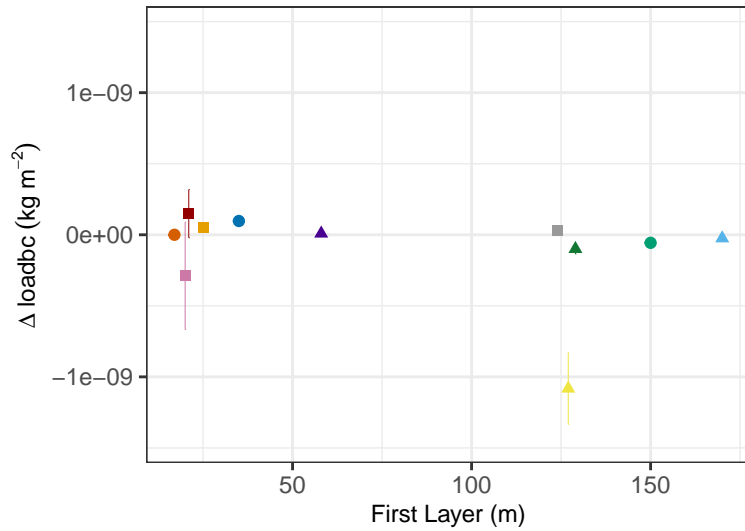
column mass burden of SO₄ – global



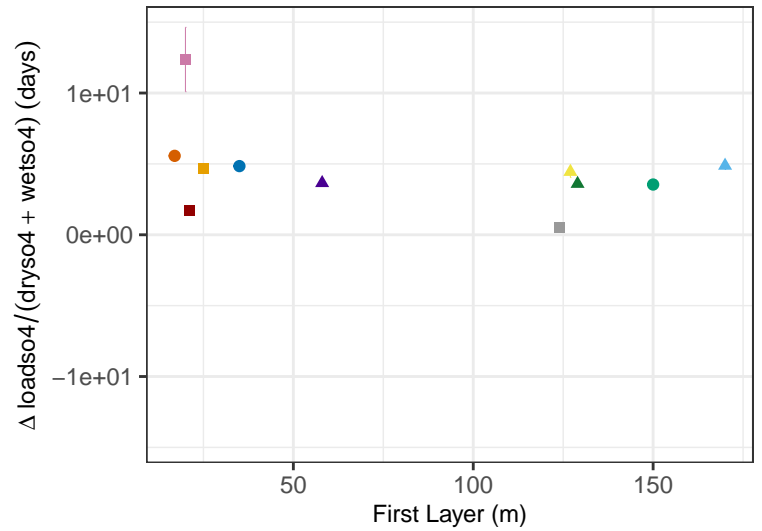
column mass burden of SO₂ – global



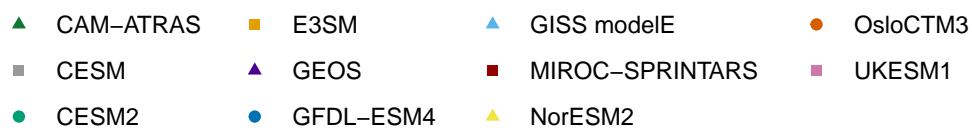
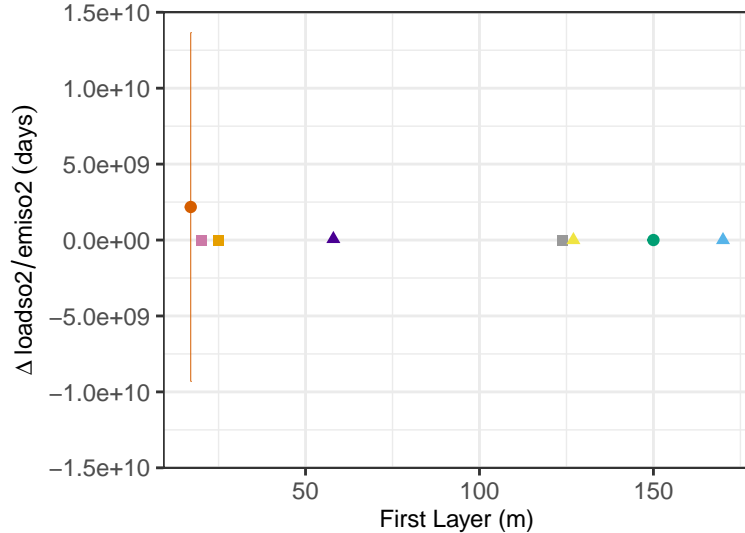
column mass burden of BC – global



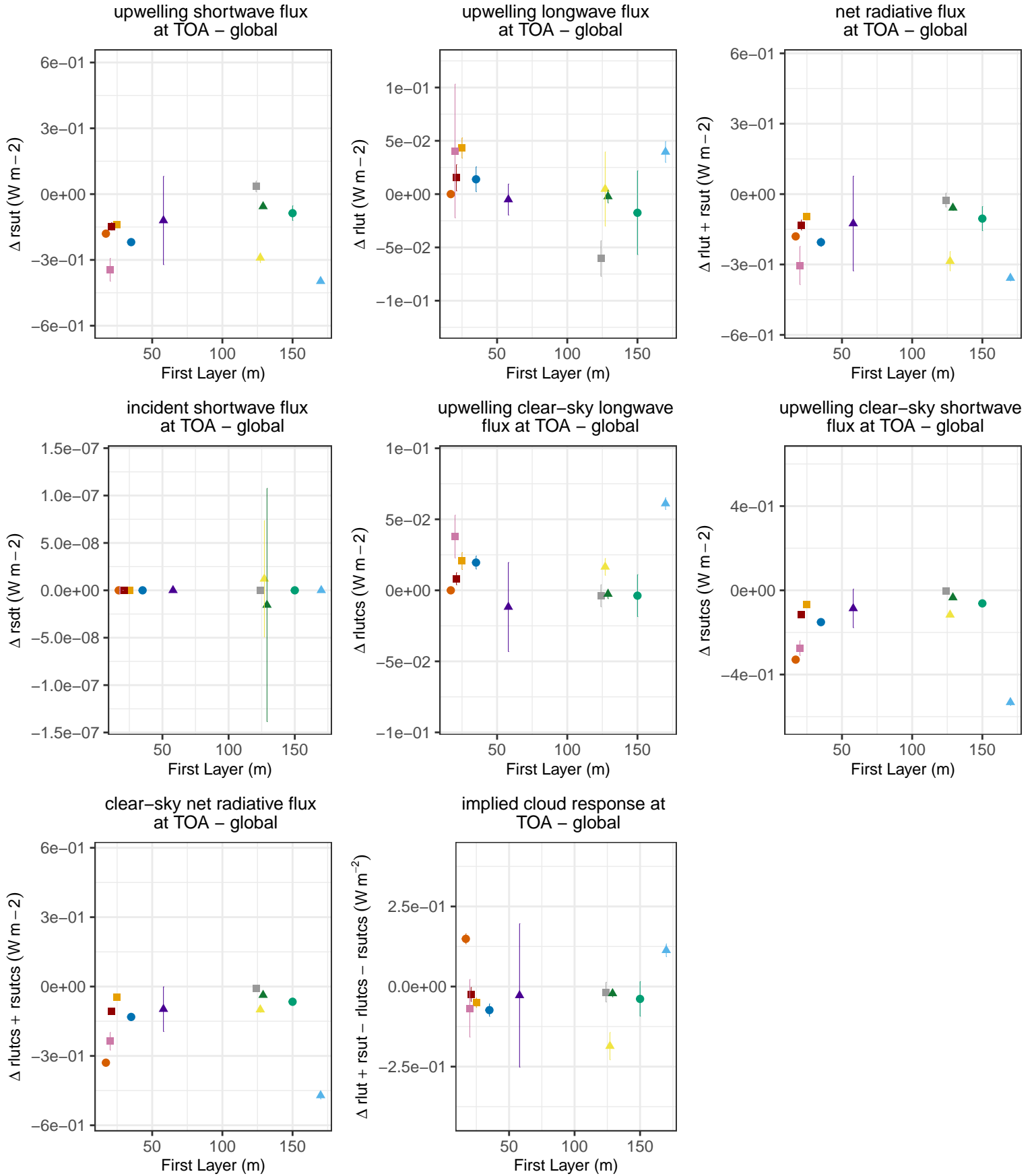
SO₄ lifetime – global



SO₂ timescale – global



1st Model Layer Summary: SO2-at-height (absolute difference)



▲ CAM-ATRAS

■ E3SM

▲ GISS modelE

● OsloCTM3

■ CESM

▲ GEOS

■ MIROC-SPRINTARS

■ UKESM1

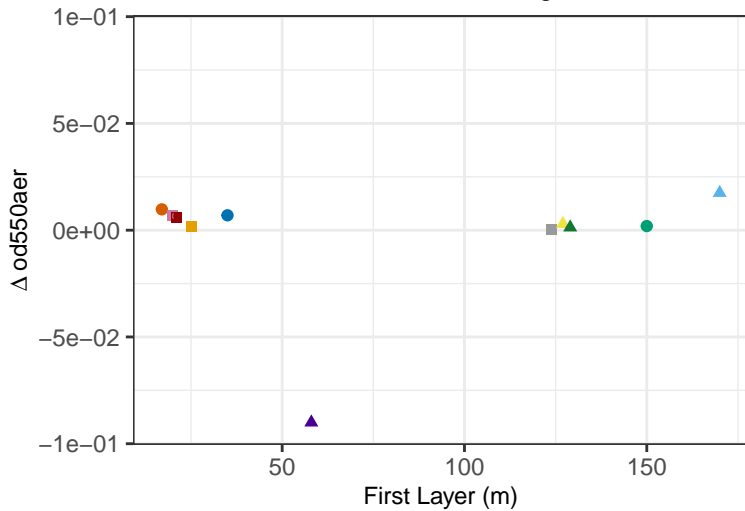
● CESM2

● GFDL-ESM4

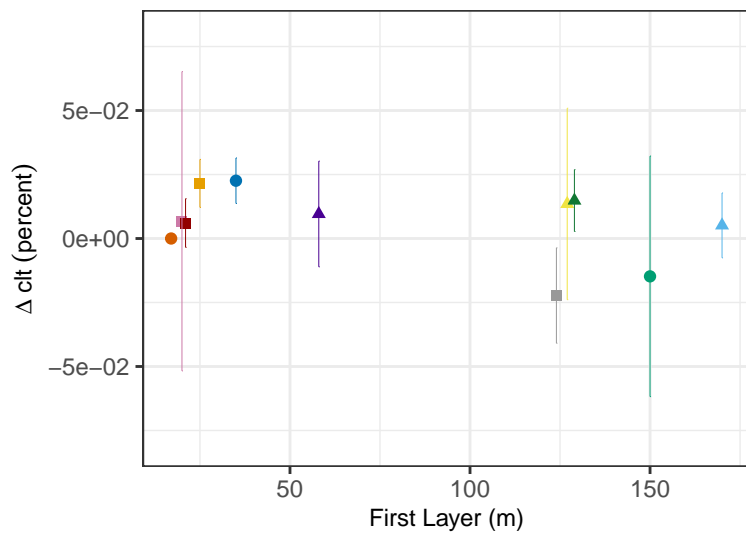
▲ NorESM2

1st Model Layer Summary: SO2-at-height (absolute difference)

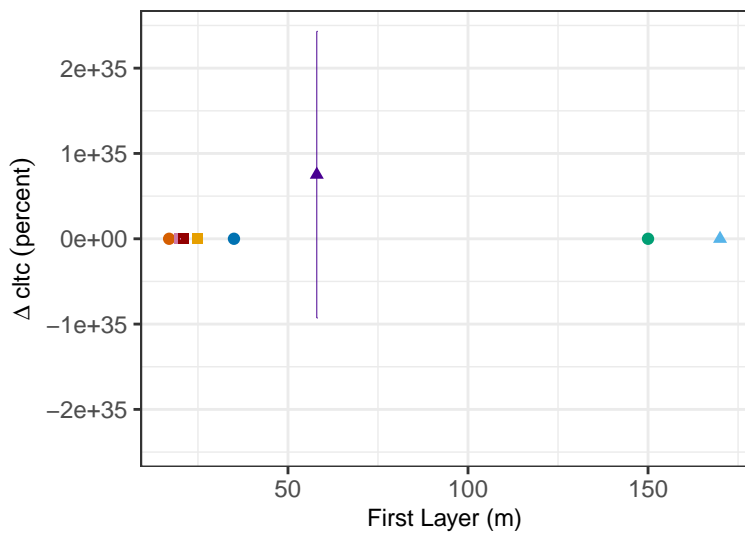
ambient aerosol optical
thickness at 550nm – global



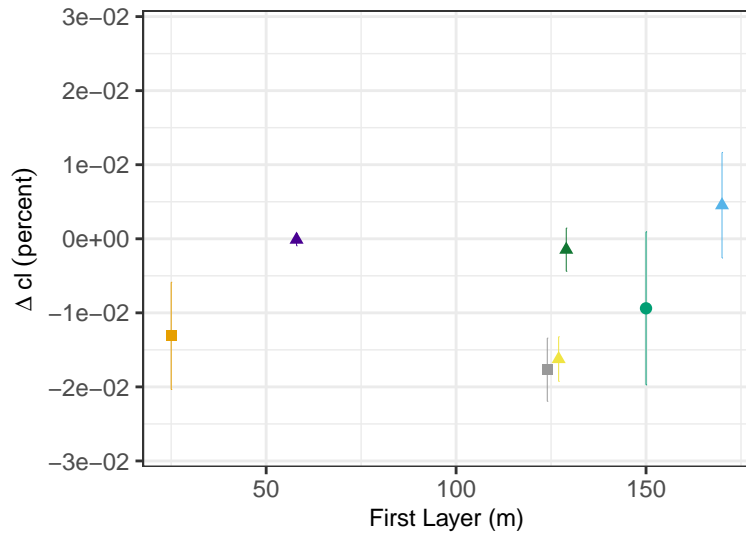
total cloud cover – global



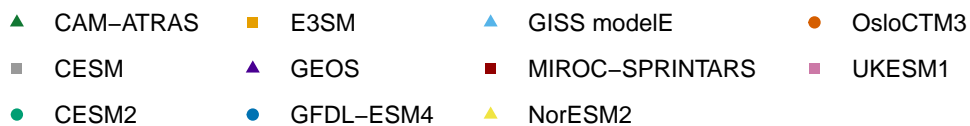
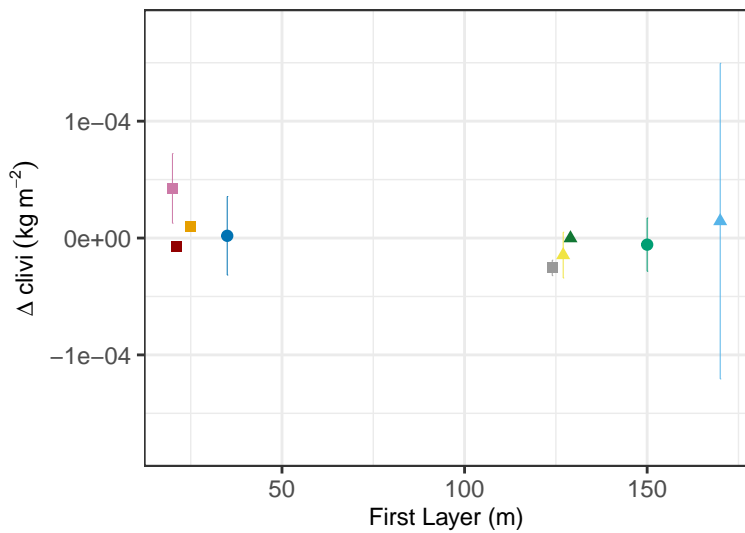
convective cloud cover – global



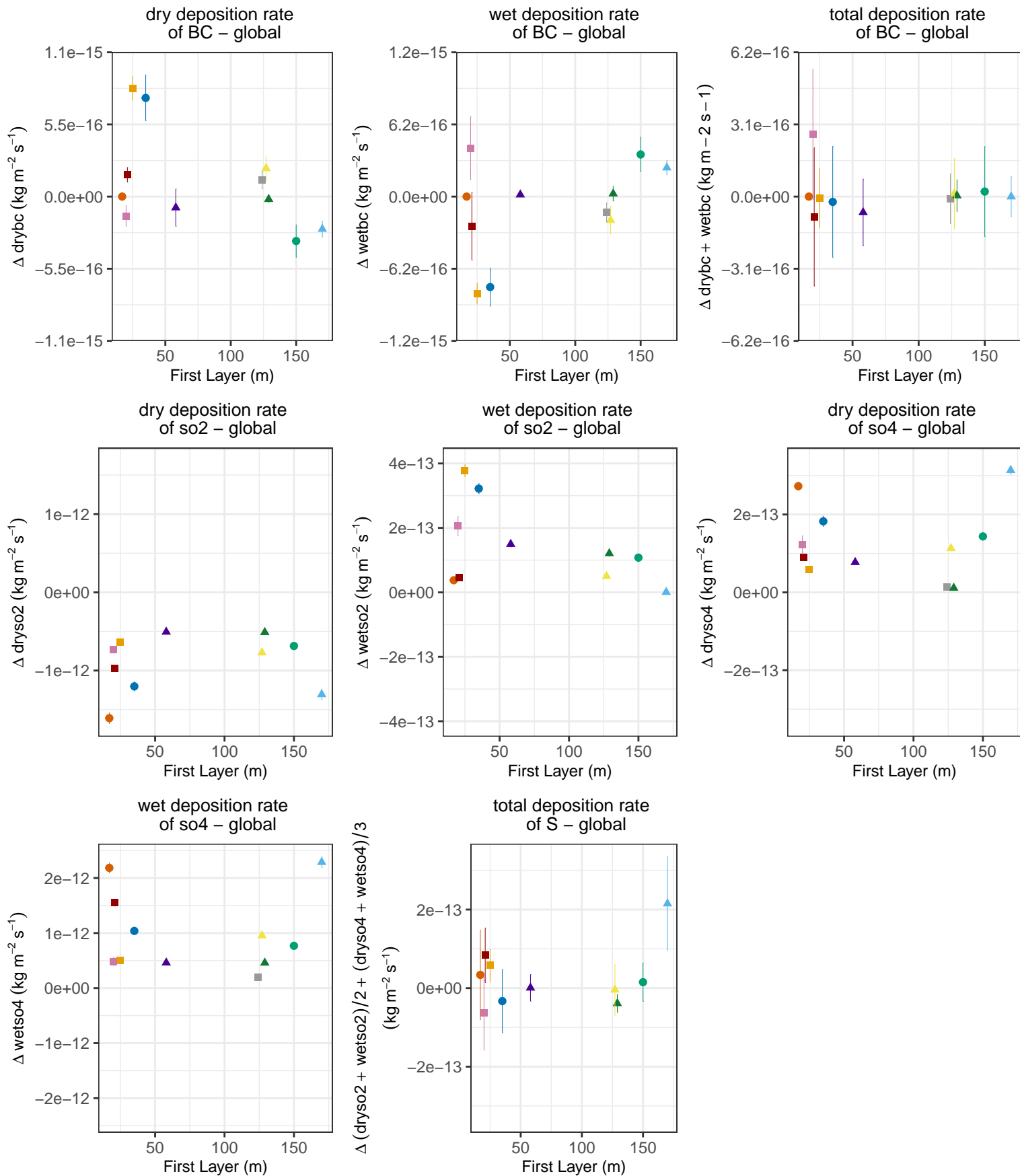
surface cloud cover – global



ice water path – global



1st Model Layer Summary: SO₂-at-height (absolute difference)



▲ CAM-ATRAS

■ E3SM

▲ GISS modelE

● OsloCTM3

■ CESM

▲ GEOS

■ MIROC-SPRINTARS

■ UKESM1

● CESM2

● GFDL-ESM4

▲ NorESM2