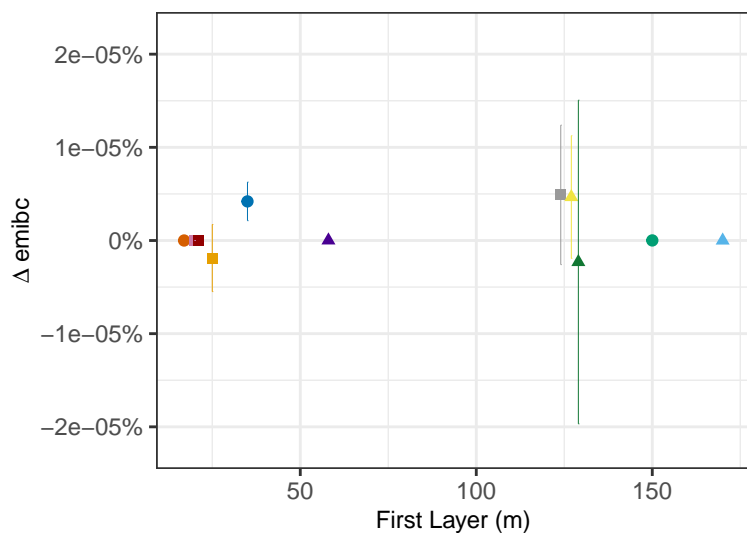
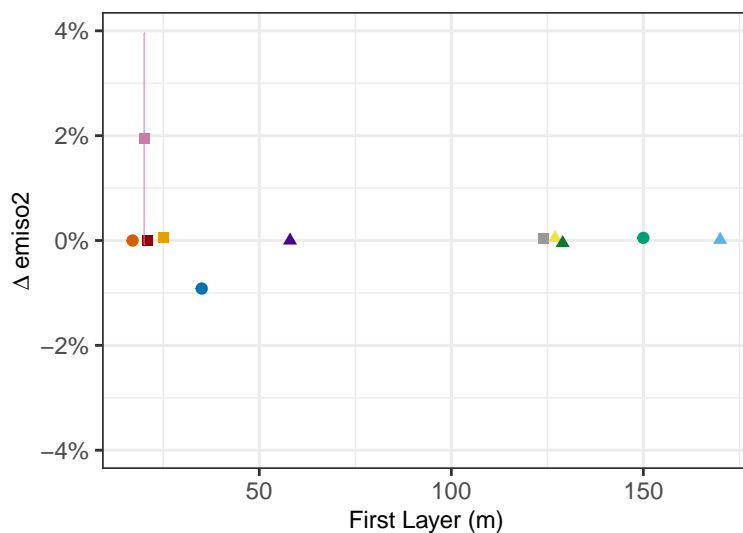


# 1st Model Layer Summary: SO<sub>2</sub>-at-height (percent difference)

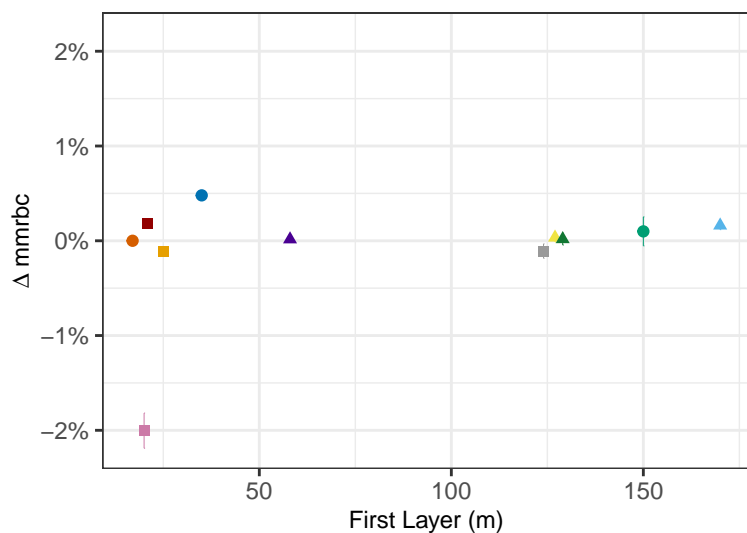
surface flux of BC – global



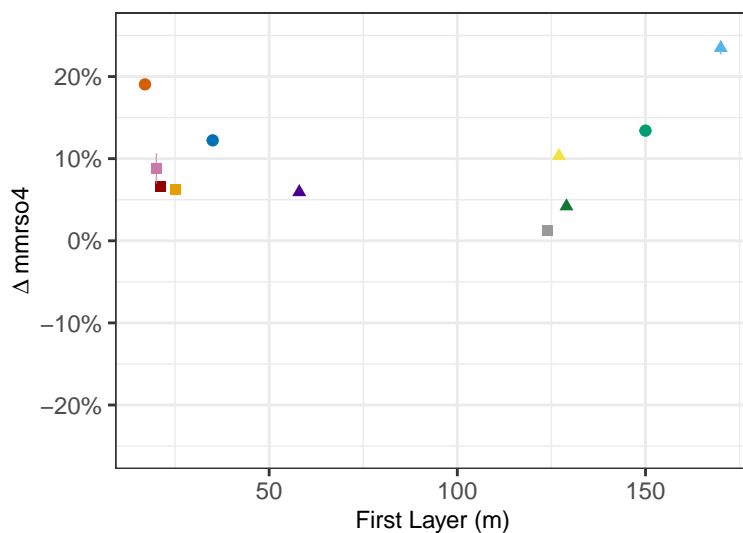
surface flux of SO<sub>2</sub> – global



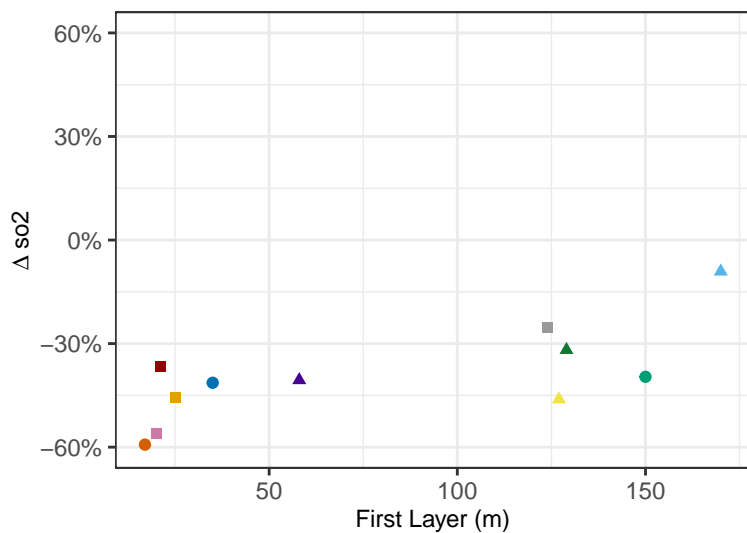
surface concentration of BC – global



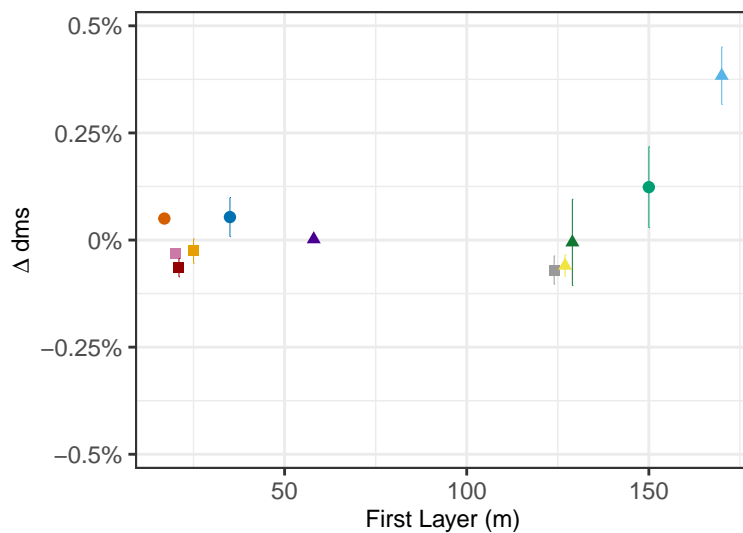
surface concentration of SO<sub>4</sub> – global



surface concentration of SO<sub>2</sub> – global

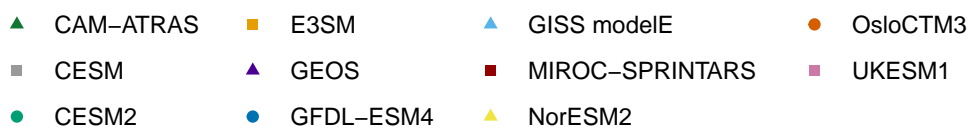
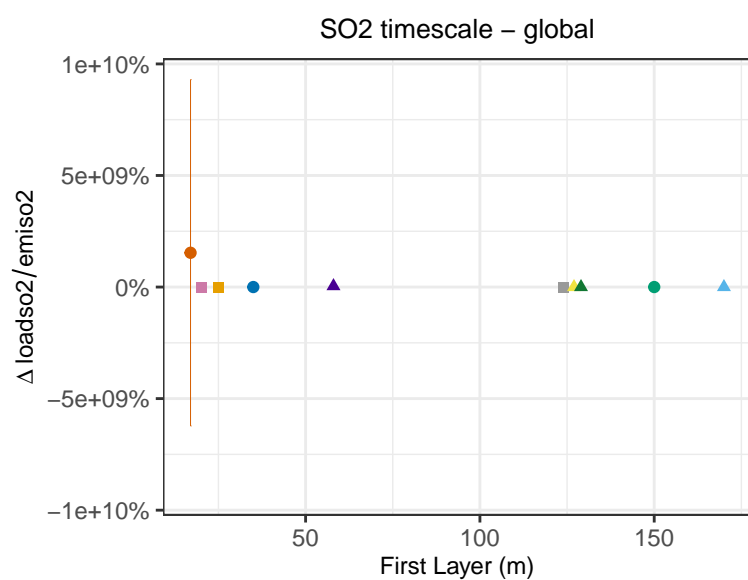
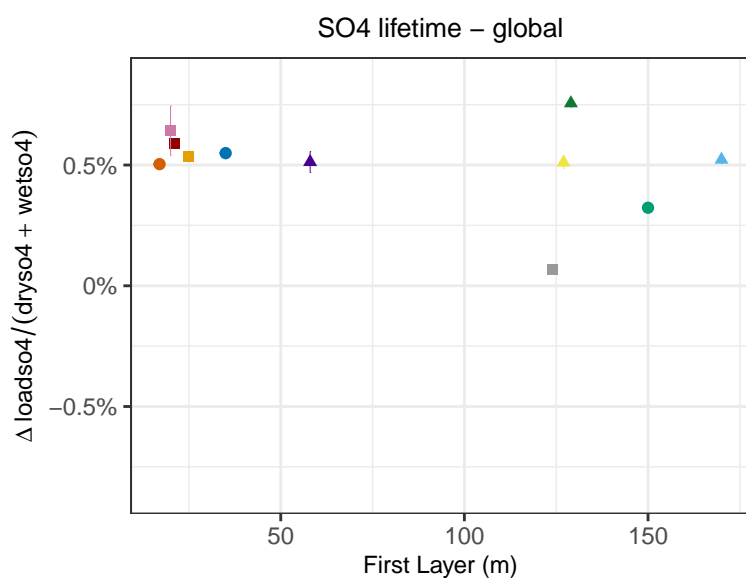
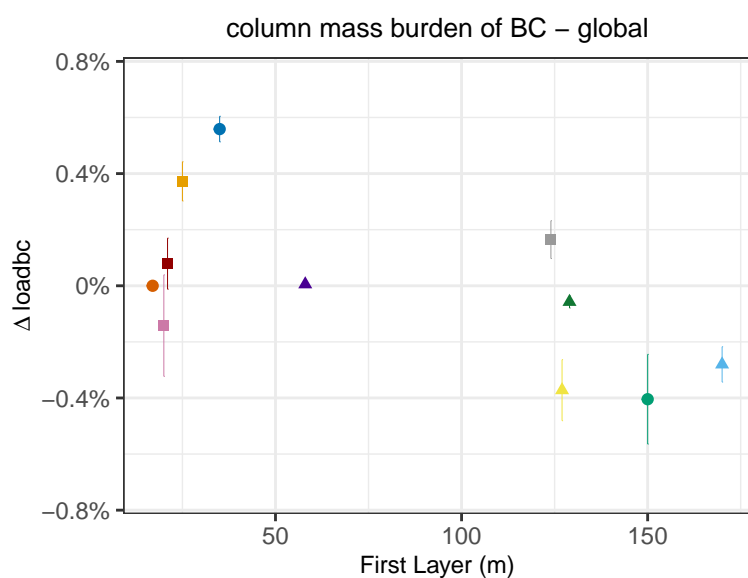
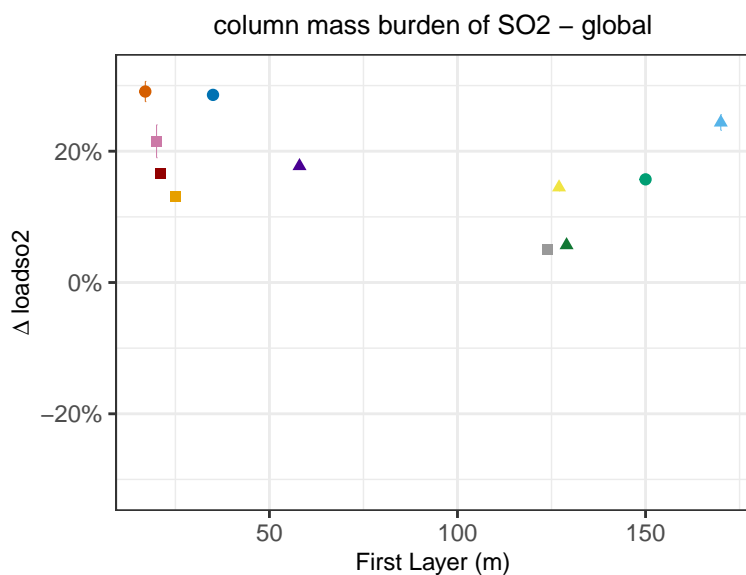
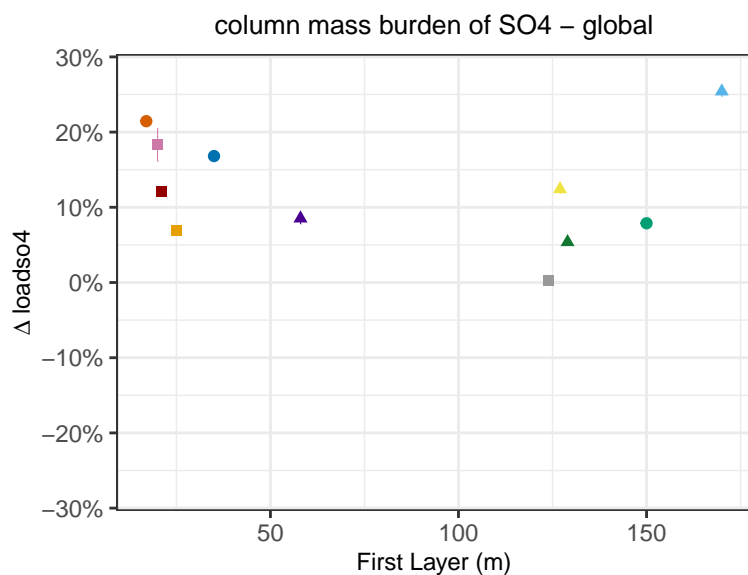


surface concentration of DMS – global



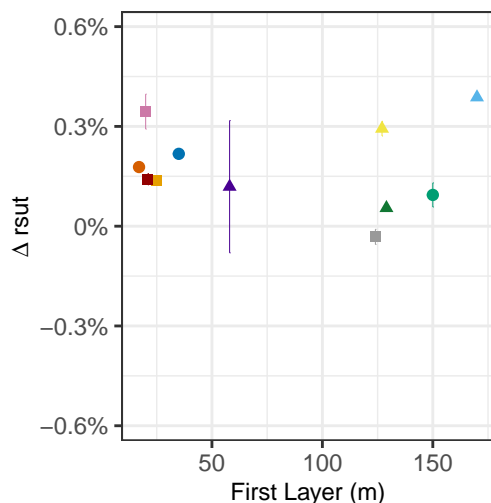
- ▲ CAM-ATRAS
- CESM
- CESM2
- E3SM
- ▲ GEOS
- GFDL-ESM4
- ▲ GISS modelE
- MIROC-SPRINTARS
- NorESM2
- OsloCTM3
- UKESM1

# 1st Model Layer Summary: SO<sub>2</sub>-at-height (percent difference)

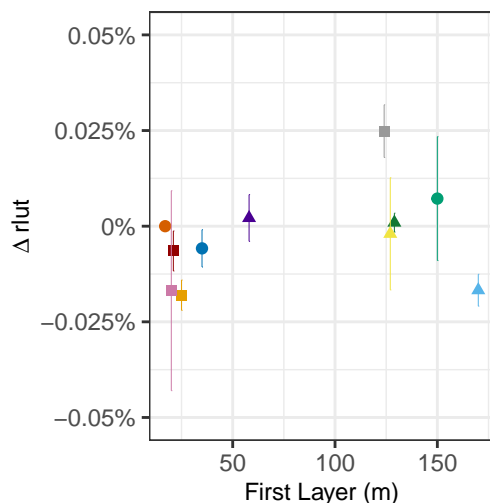


# 1st Model Layer Summary: SO2-at-height (percent difference)

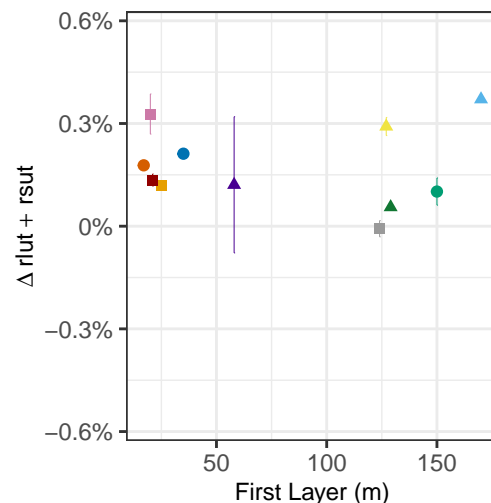
upwelling shortwave flux  
at TOA – global



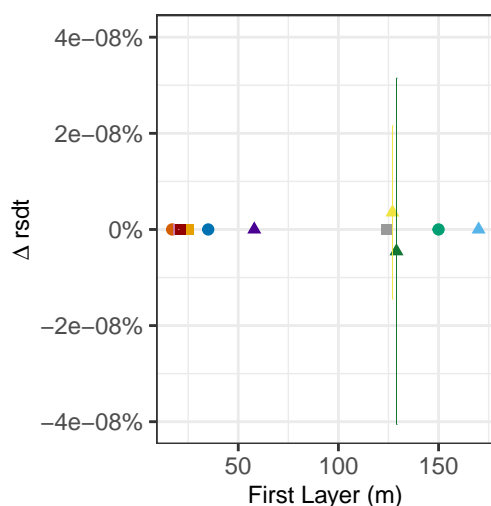
upwelling longwave flux  
at TOA – global



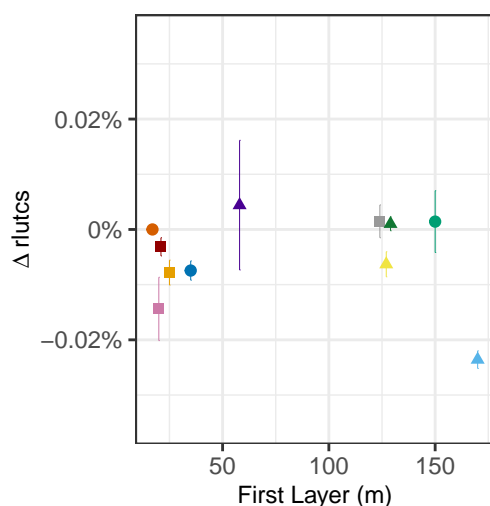
net radiative flux  
at TOA – global



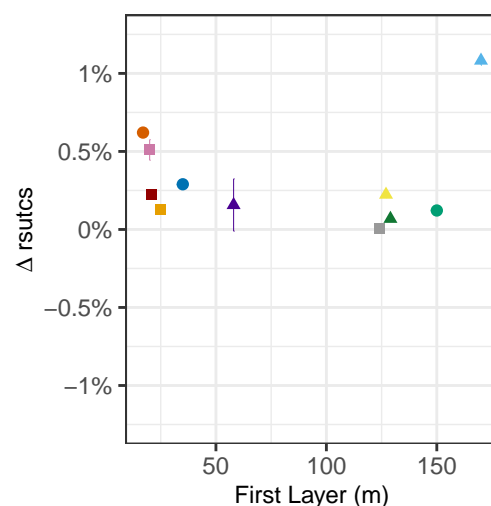
incident shortwave flux  
at TOA – global



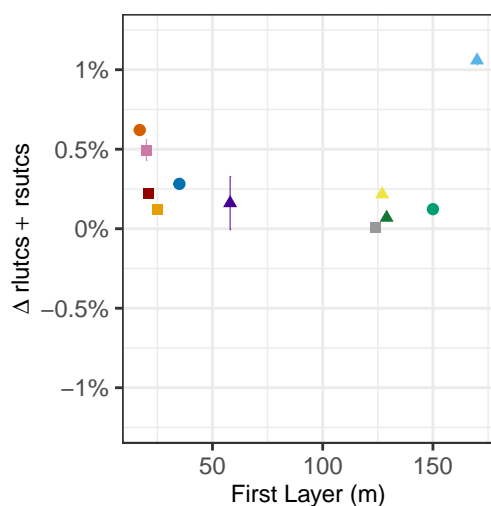
upwelling clear-sky longwave  
flux at TOA – global



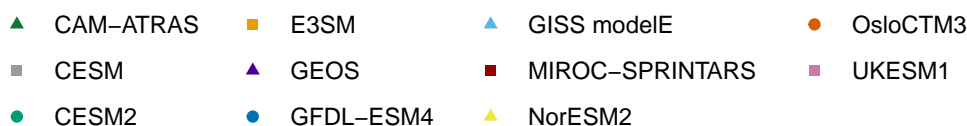
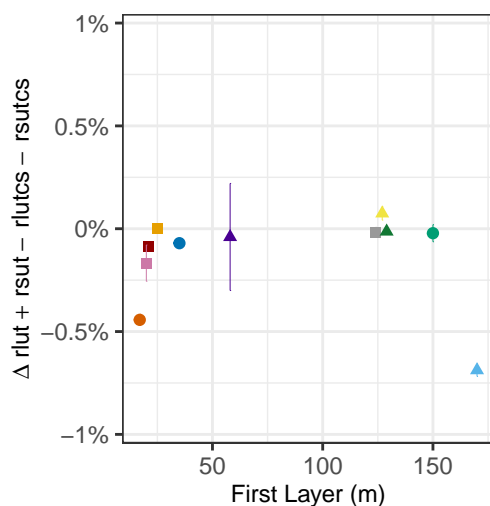
upwelling clear-sky shortwave  
flux at TOA – global



clear-sky net radiative flux  
at TOA – global

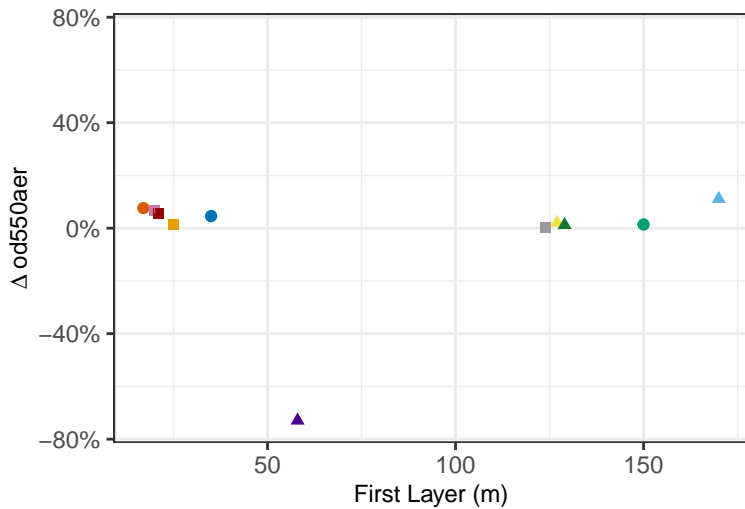


implied cloud response at  
TOA – global

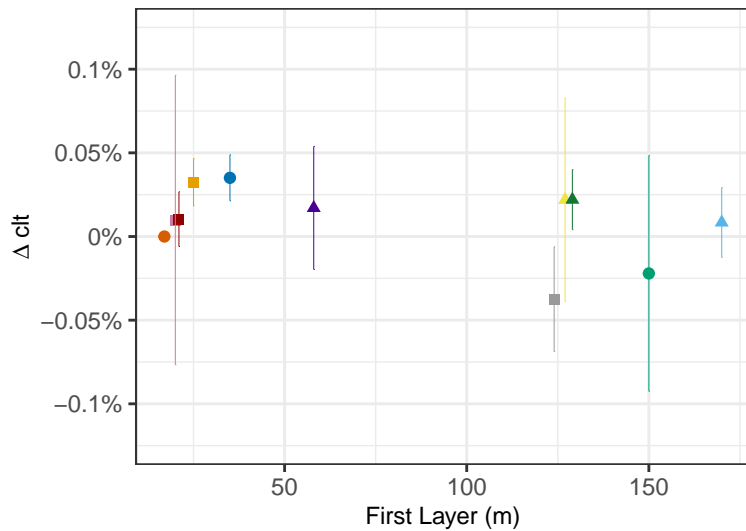


# 1st Model Layer Summary: SO2-at-height (percent difference)

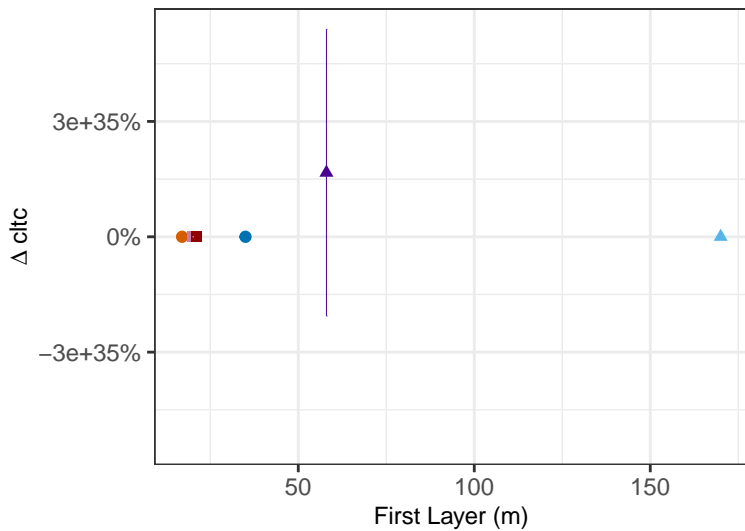
ambient aerosol optical  
thickness at 550nm – global



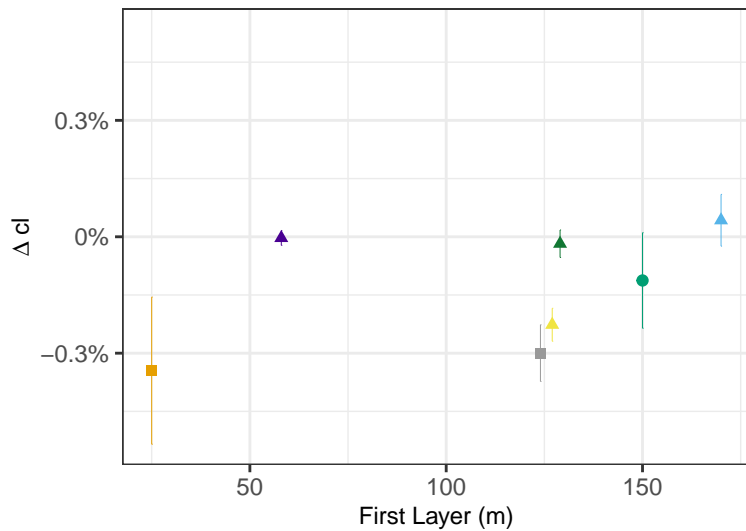
total cloud cover – global



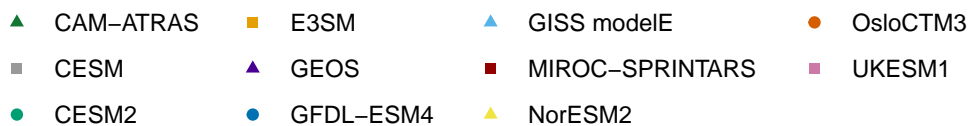
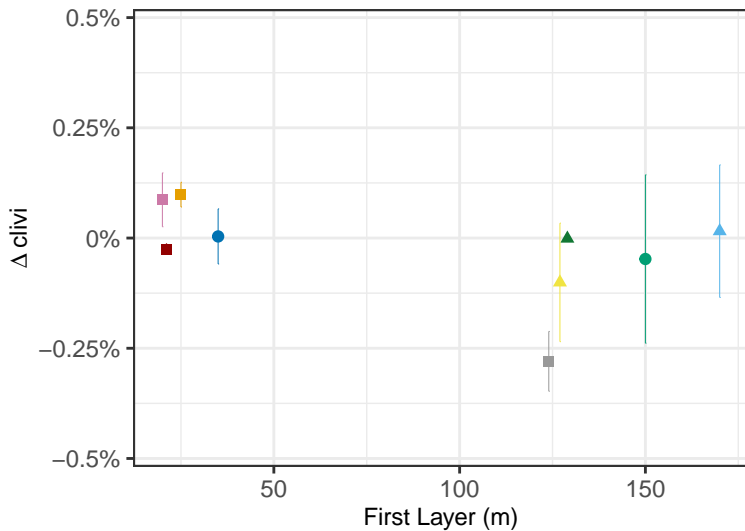
convective cloud cover – global



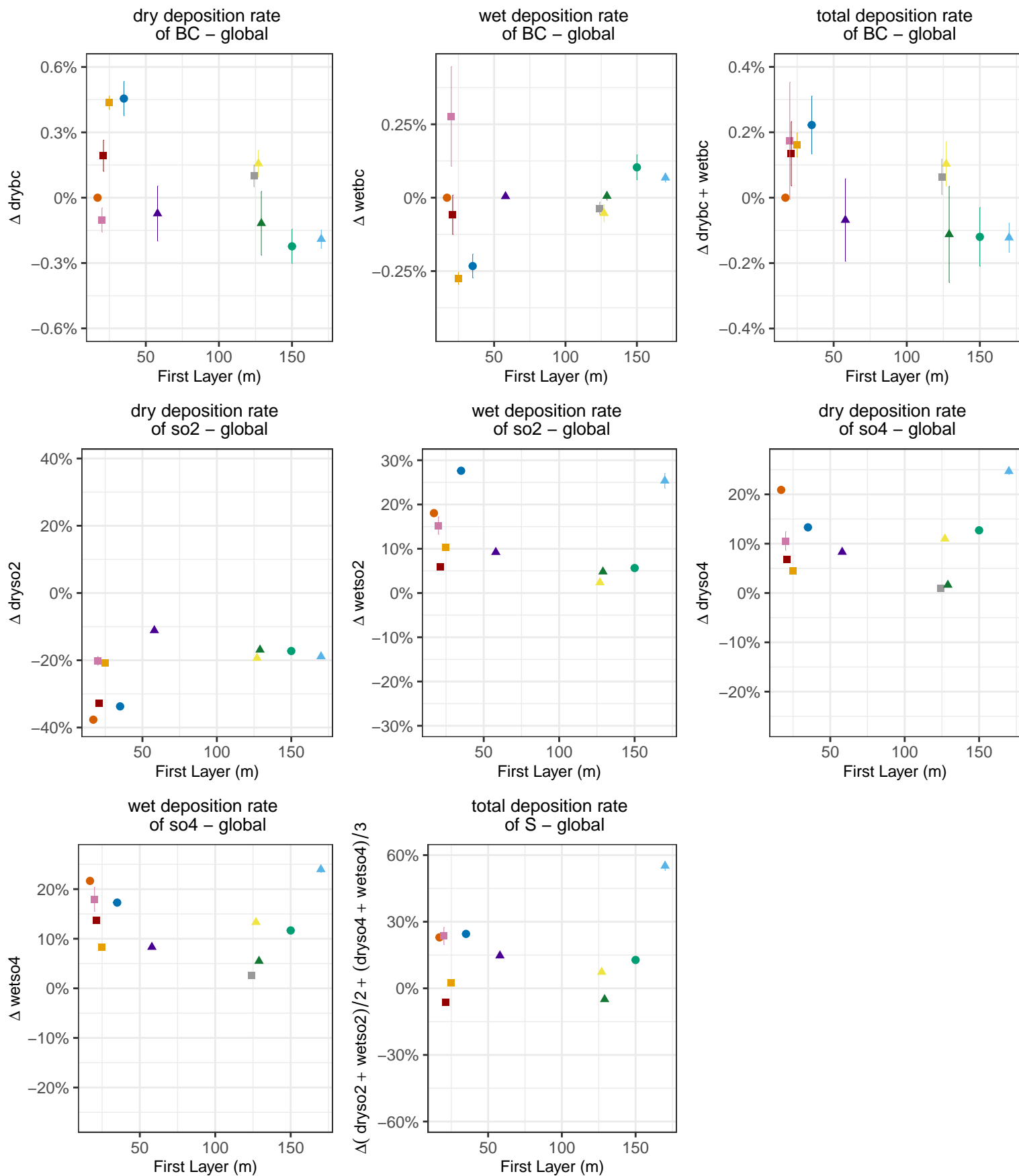
surface cloud cover – global



ice water path – global



# 1st Model Layer Summary: SO<sub>2</sub>-at-height (percent difference)



▲ CAM-ATRAS

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▲ NorESM2