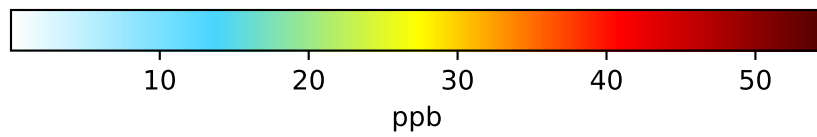
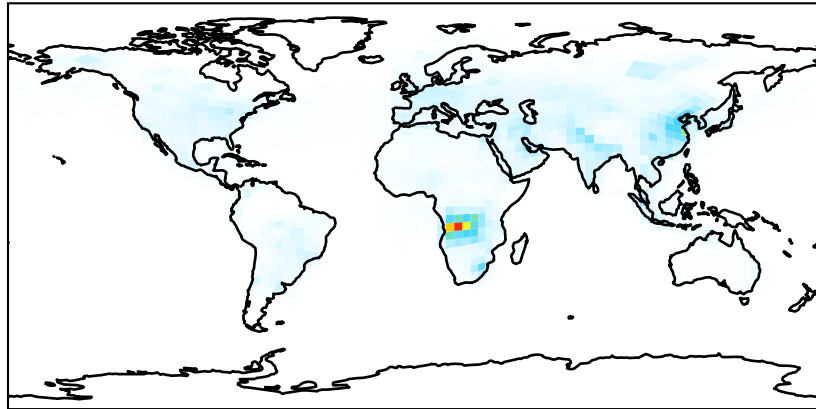
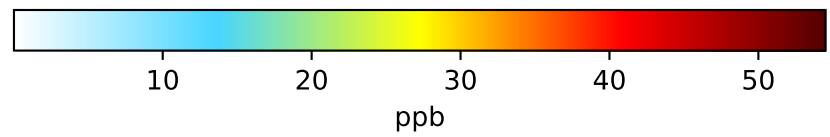
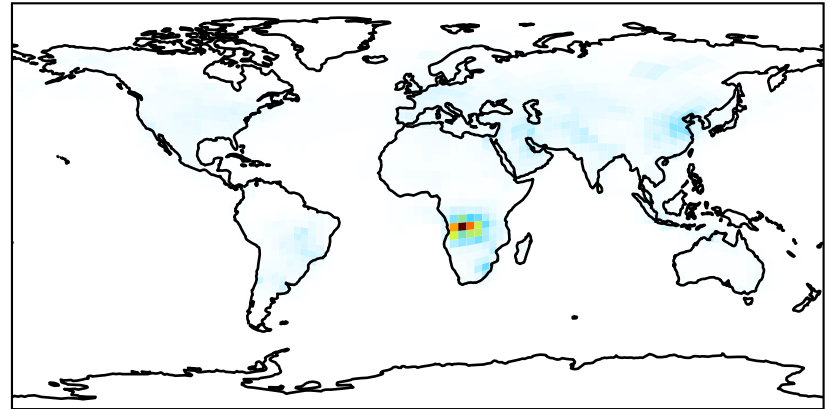


# SpeciesConcVV\_NOy

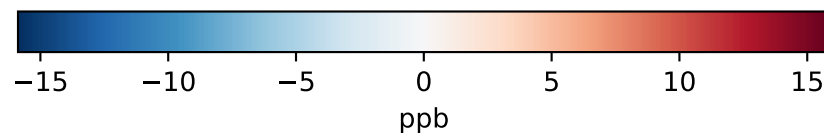
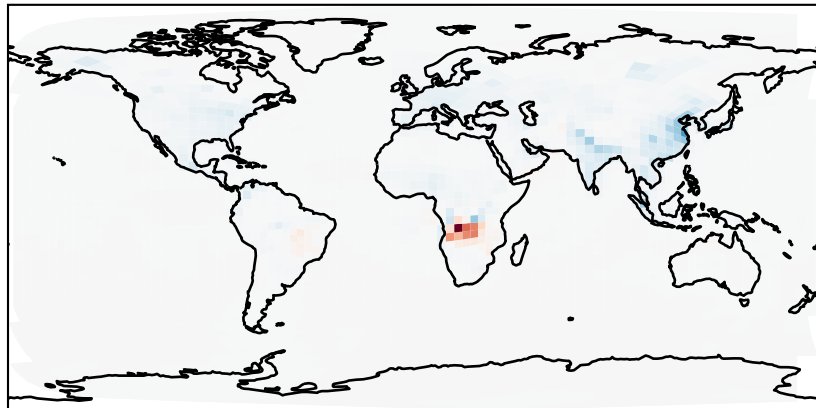
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



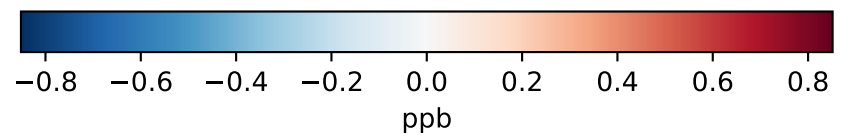
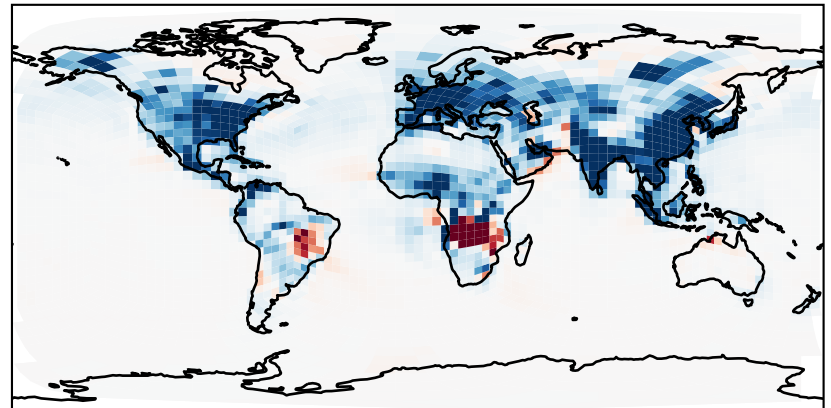
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



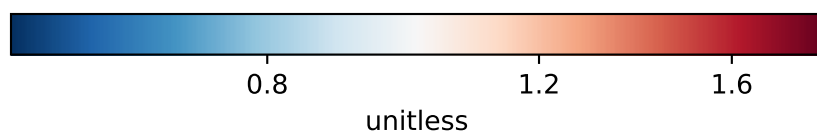
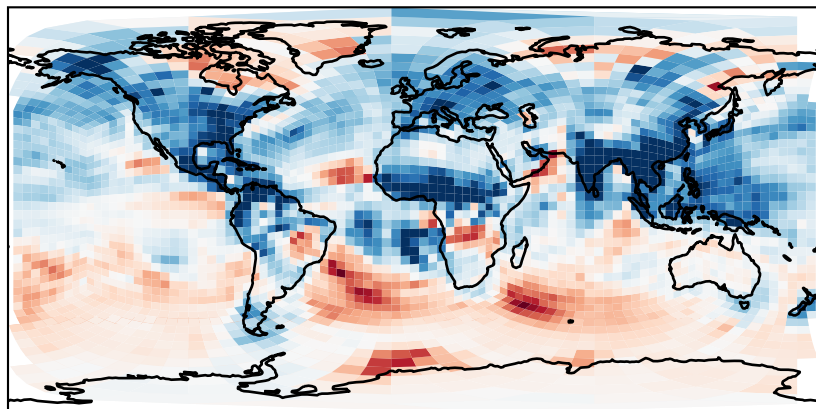
Difference  
Dev - Ref, Dynamic Range



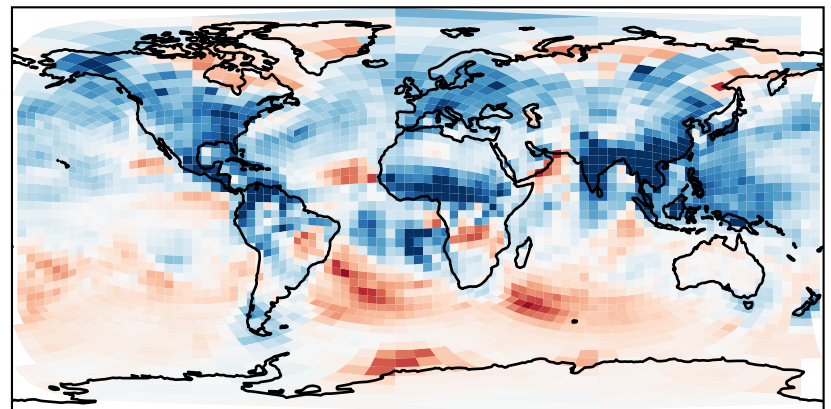
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

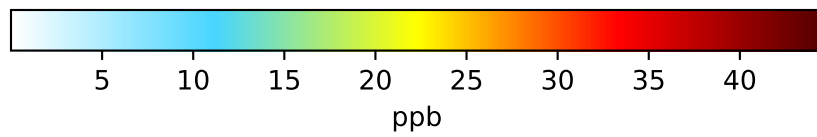
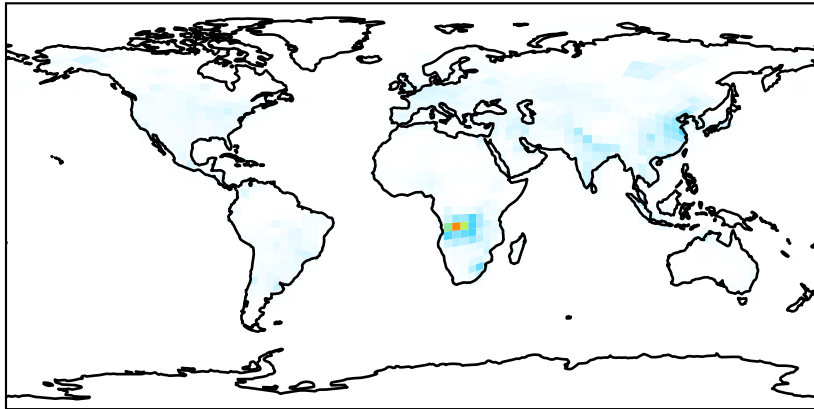


Ratio  
Dev/Ref, Fixed Range

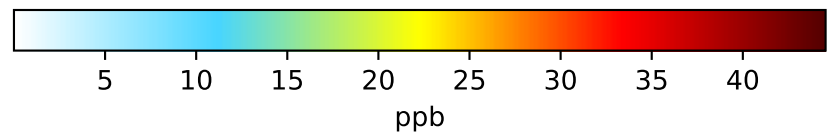
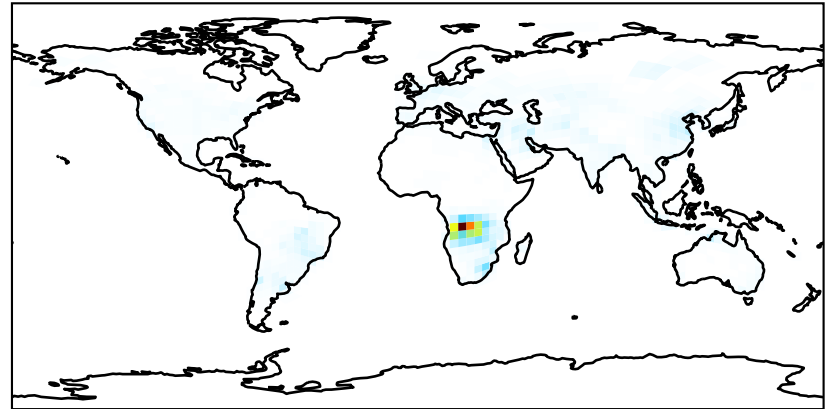


# SpeciesConcVV\_NOx

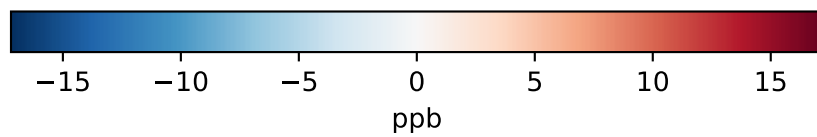
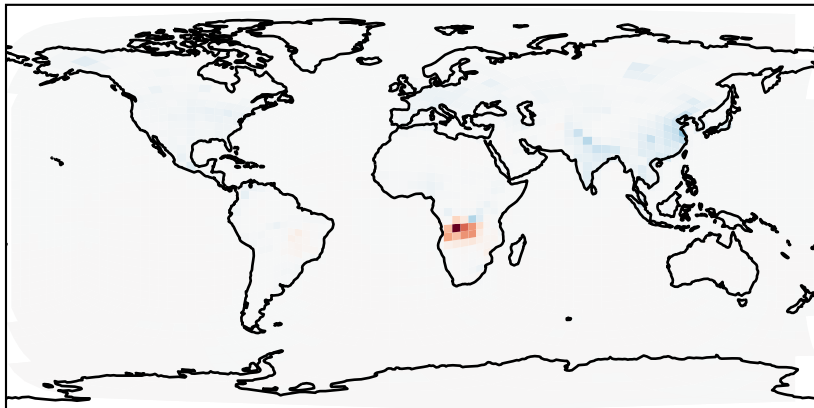
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



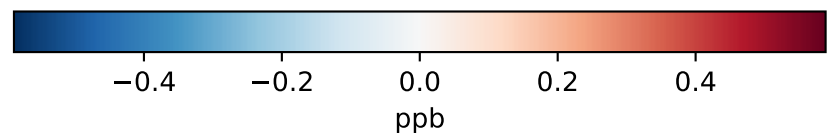
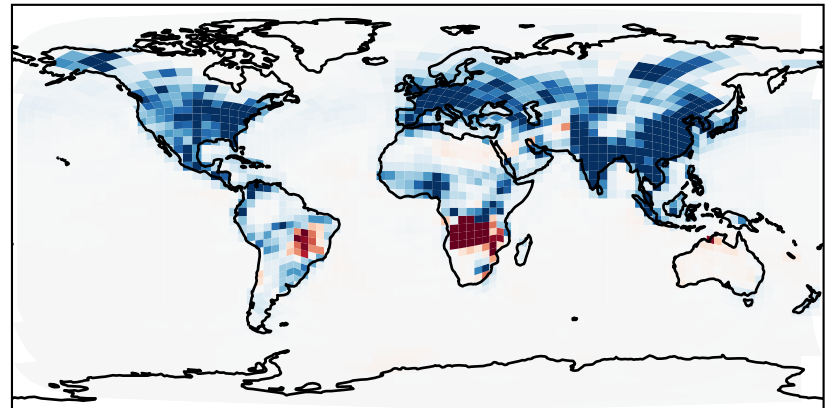
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



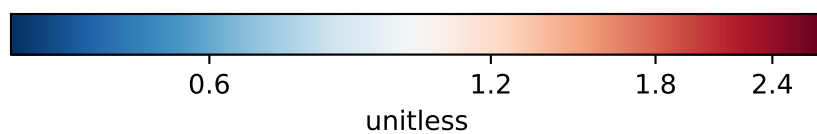
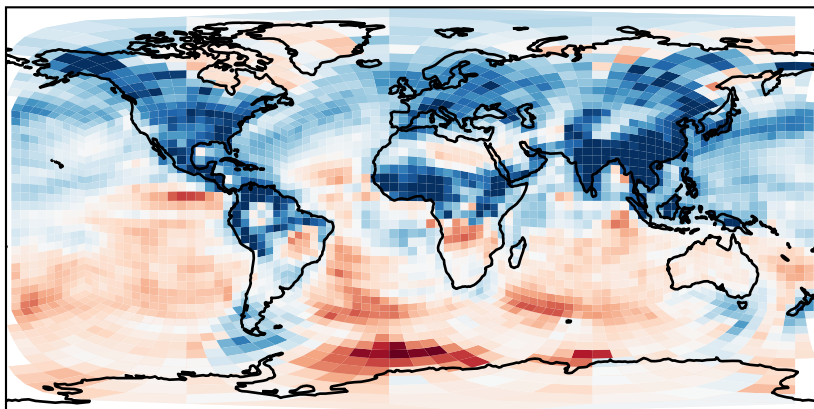
Difference  
Dev - Ref, Dynamic Range



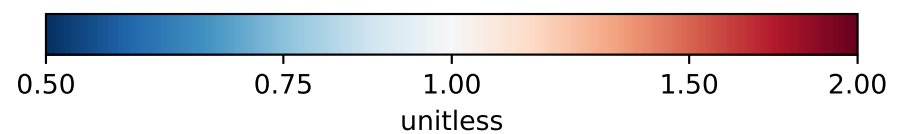
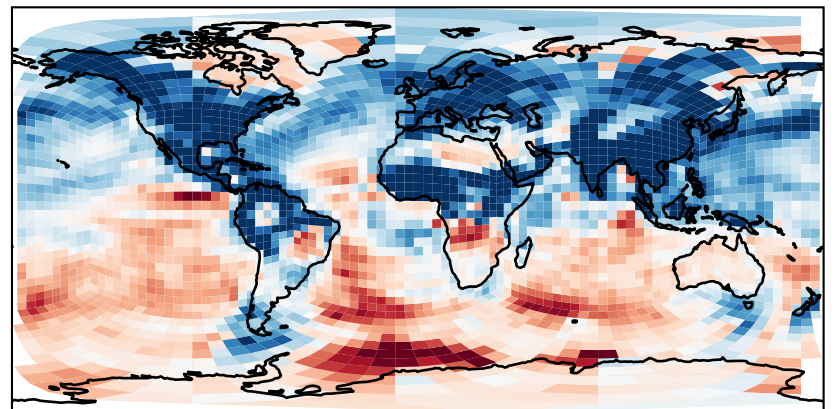
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

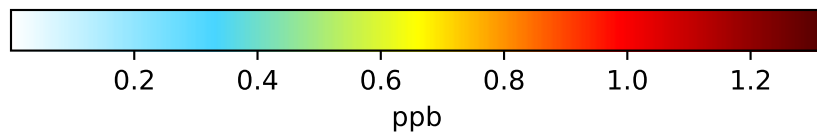
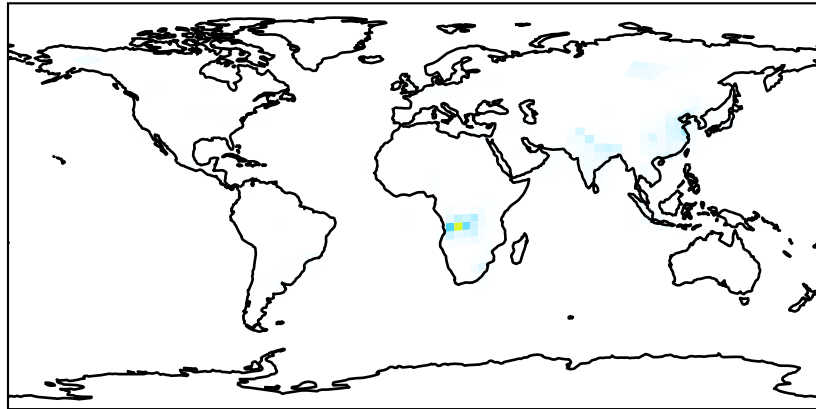


Ratio  
Dev/Ref, Fixed Range

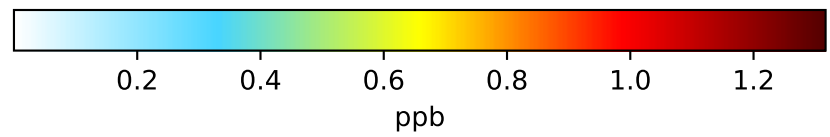
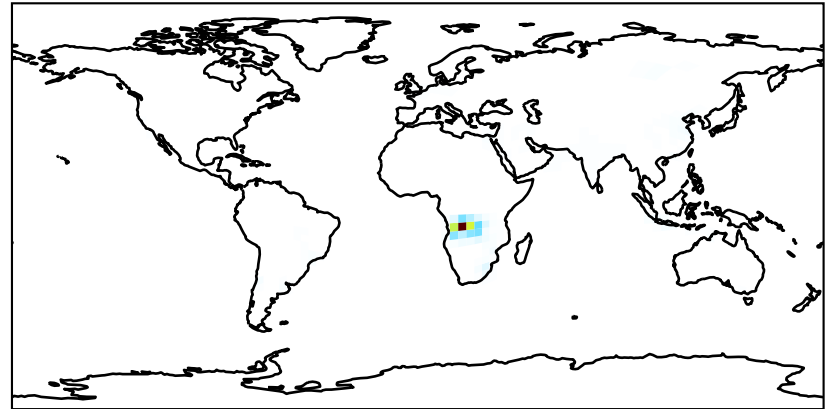


# SpeciesConcVV\_HNO2

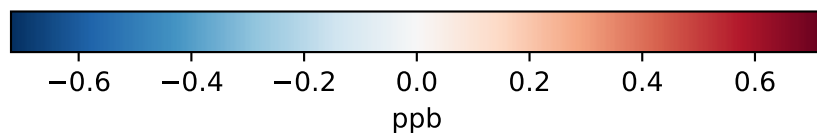
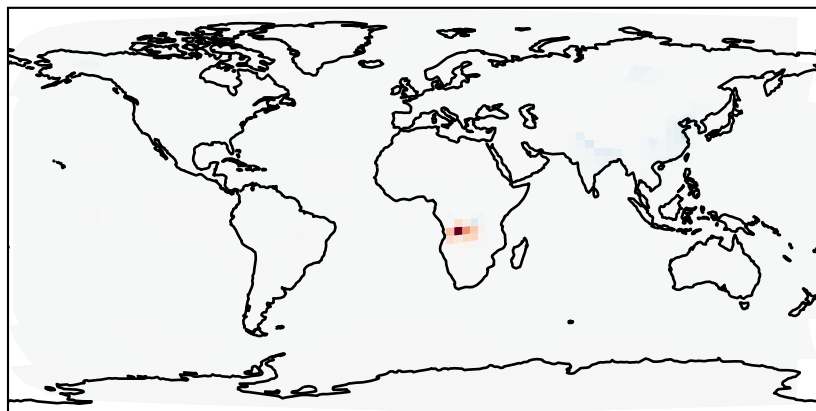
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



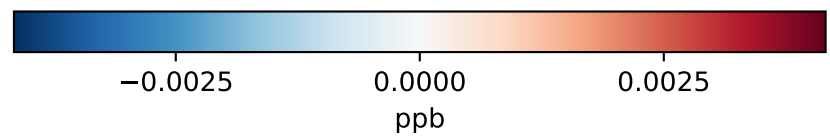
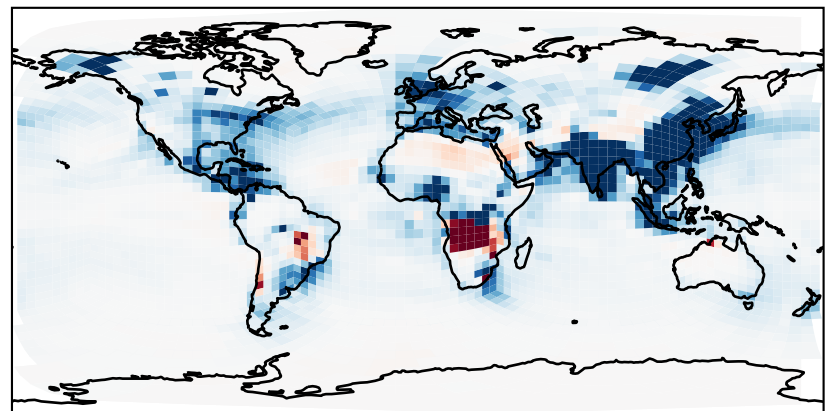
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



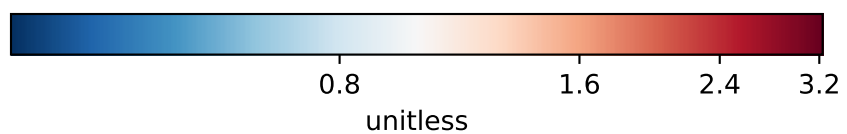
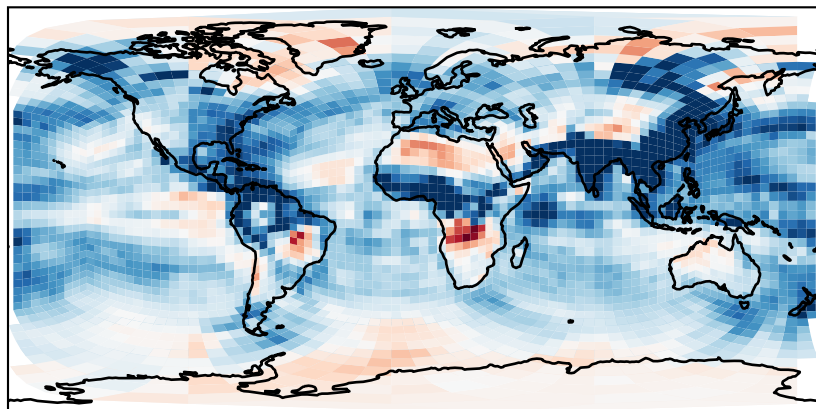
Difference  
Dev - Ref, Dynamic Range



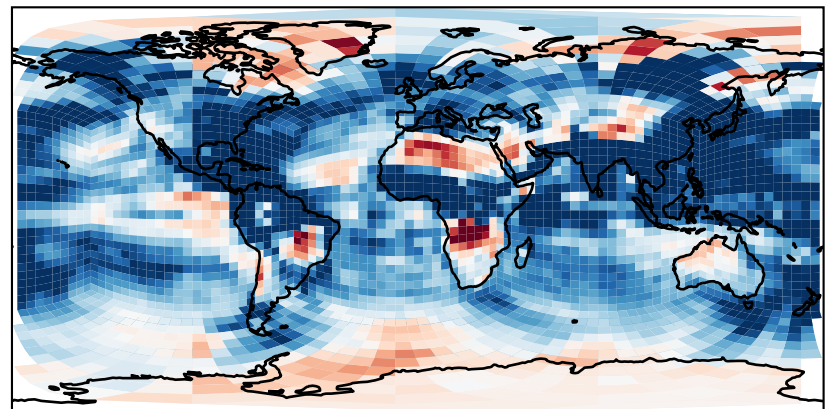
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



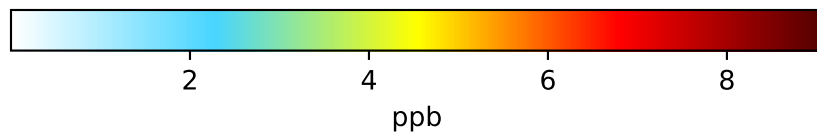
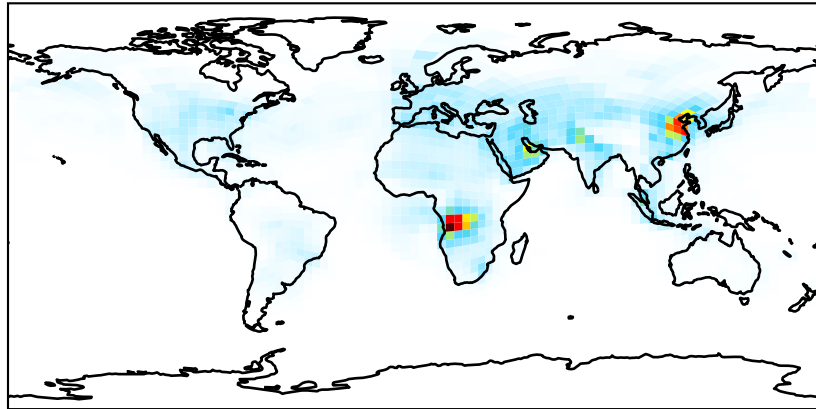
Ratio  
Dev/Ref, Fixed Range



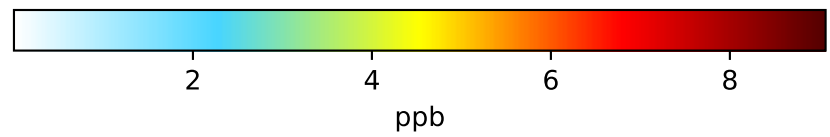
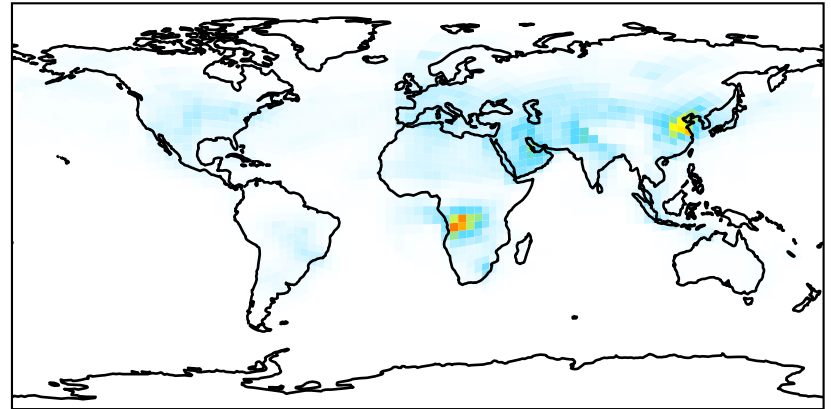


# SpeciesConcVV\_HNO3

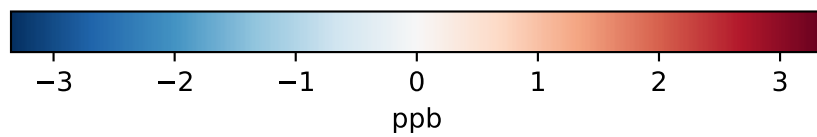
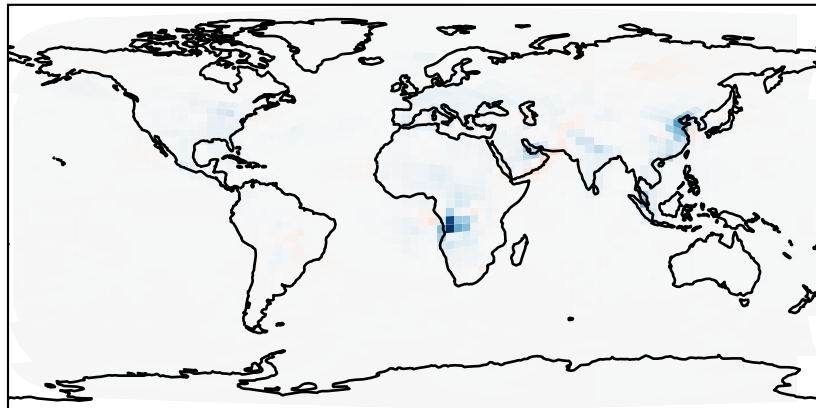
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



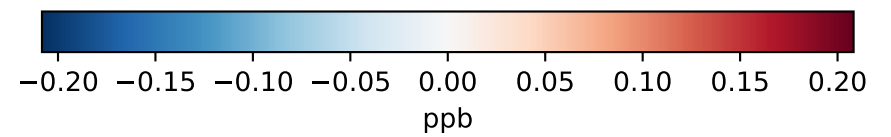
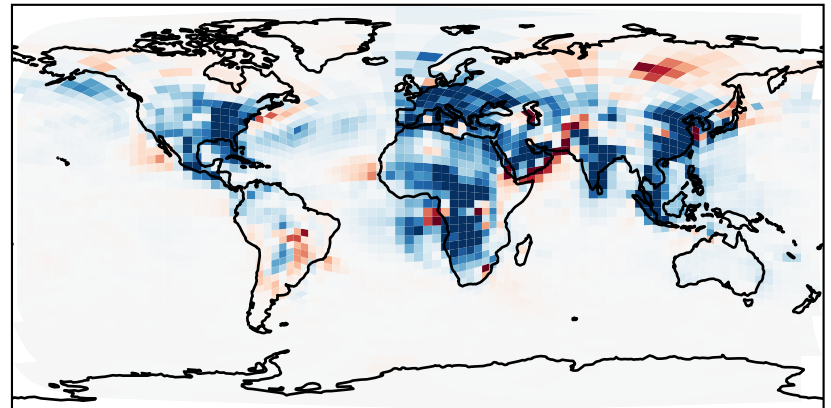
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



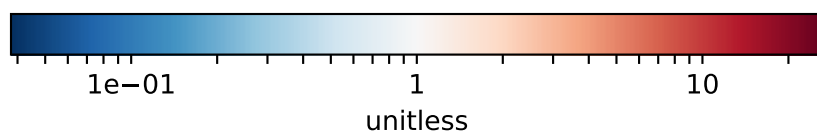
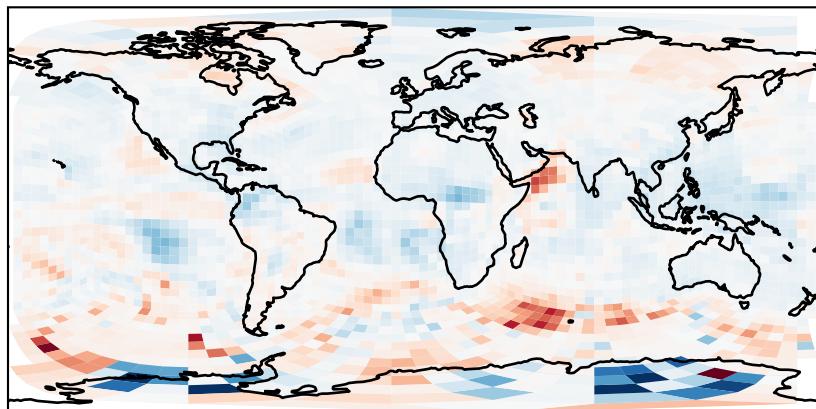
Difference  
Dev - Ref, Dynamic Range



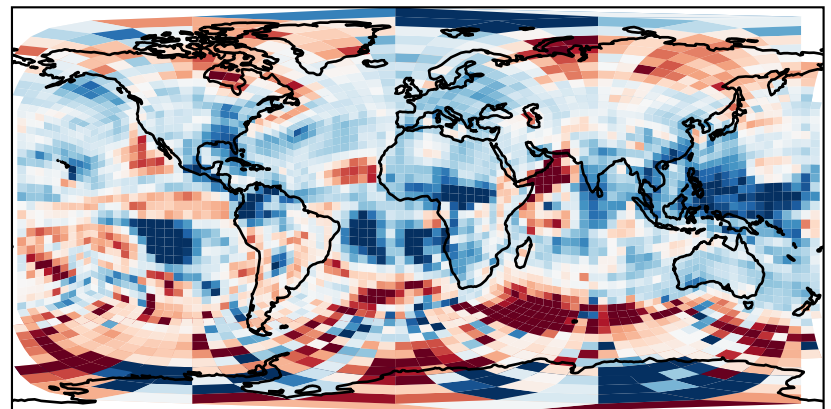
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



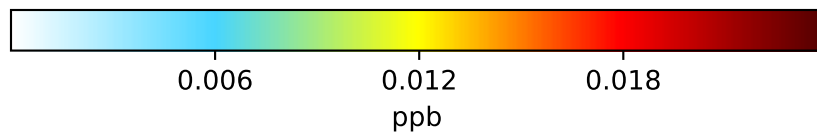
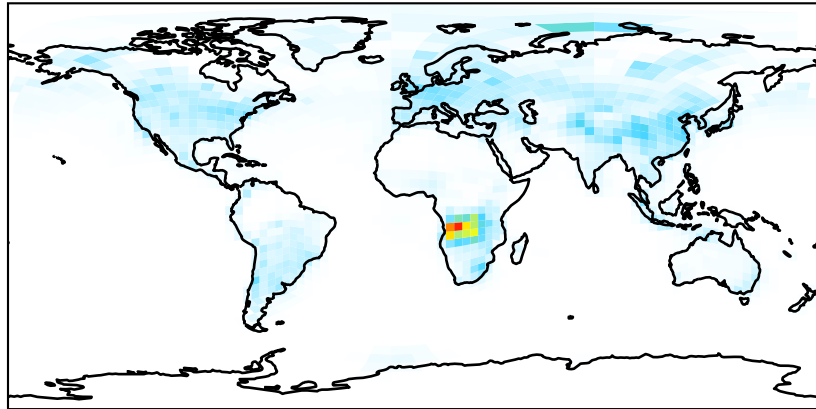
Ratio  
Dev/Ref, Fixed Range



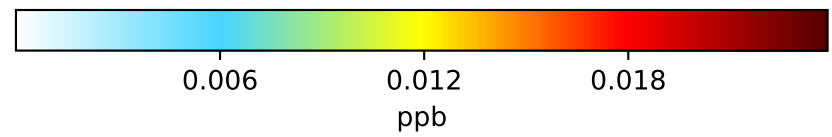
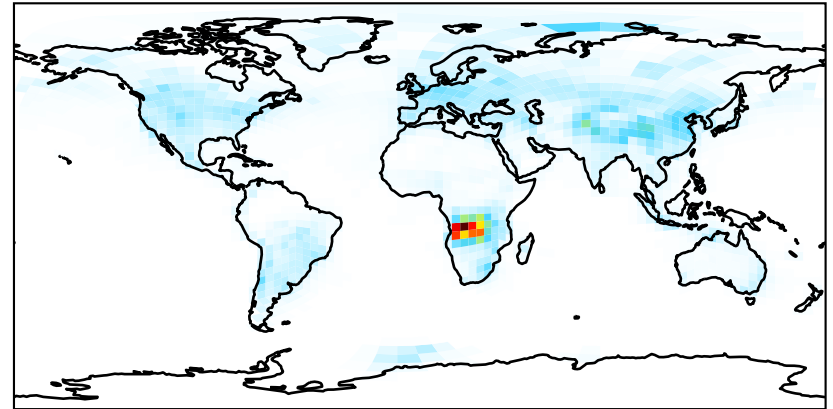


# SpeciesConcVV\_HNO4

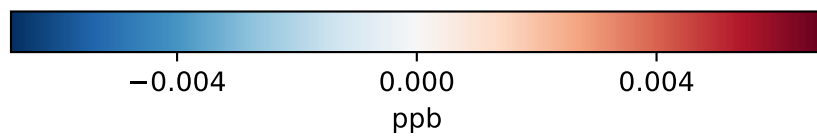
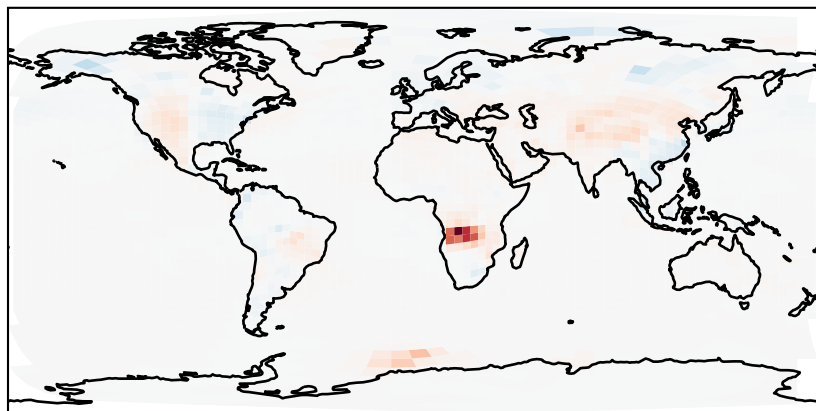
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



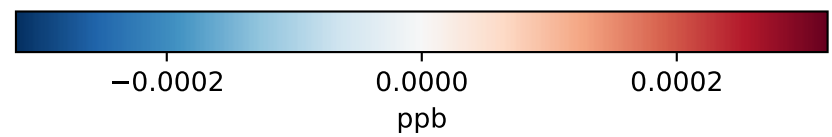
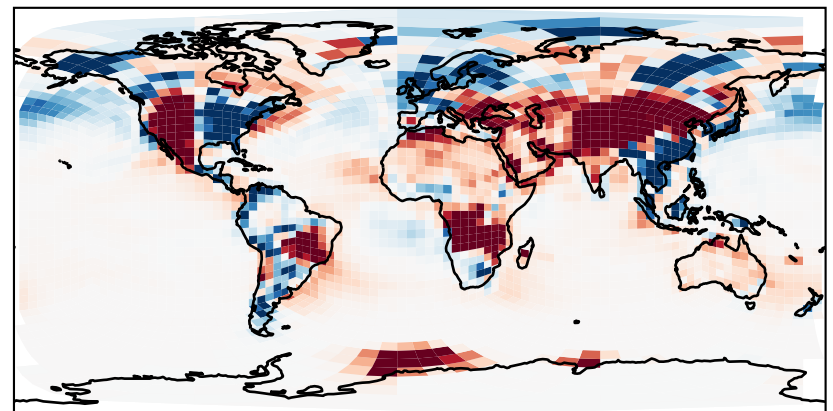
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



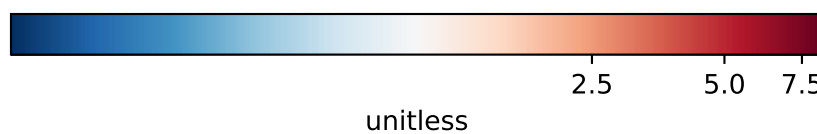
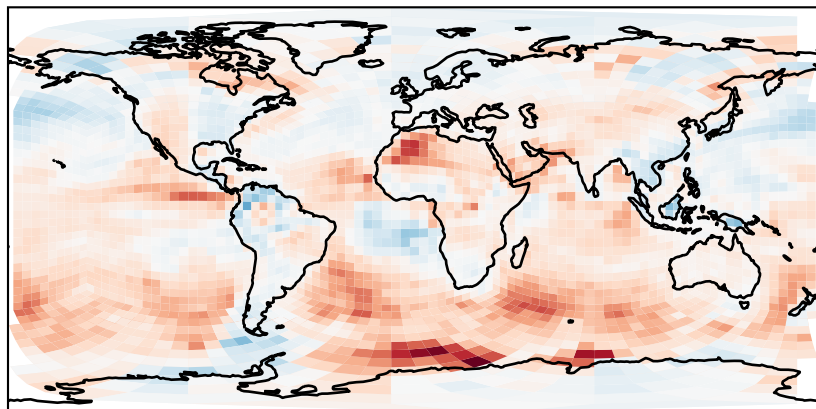
Difference  
Dev - Ref, Dynamic Range



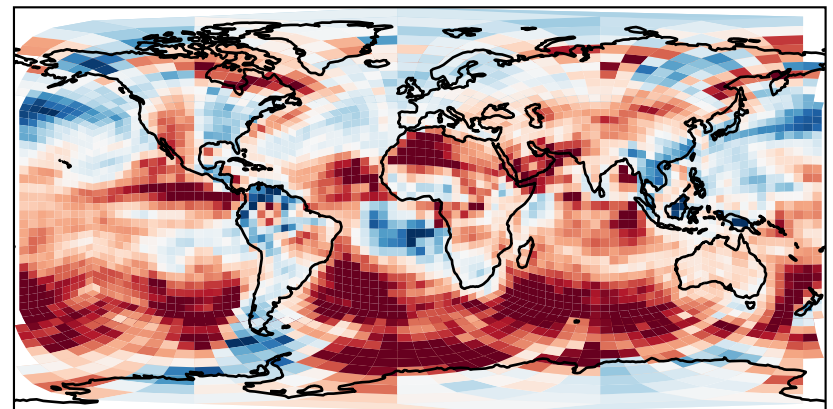
Difference  
Dev - Ref, Restricted Range [5%,95%]



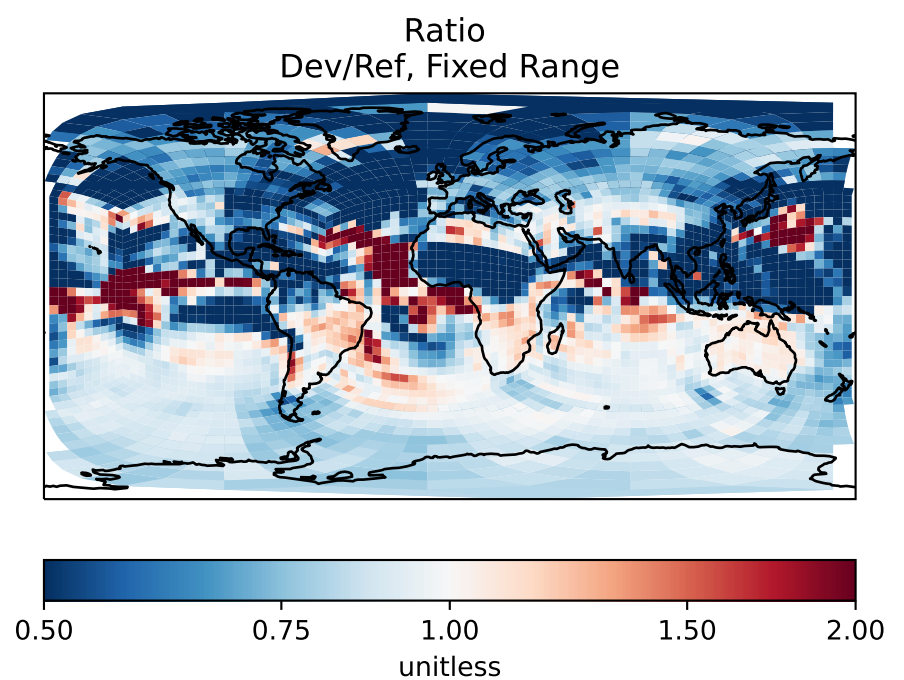
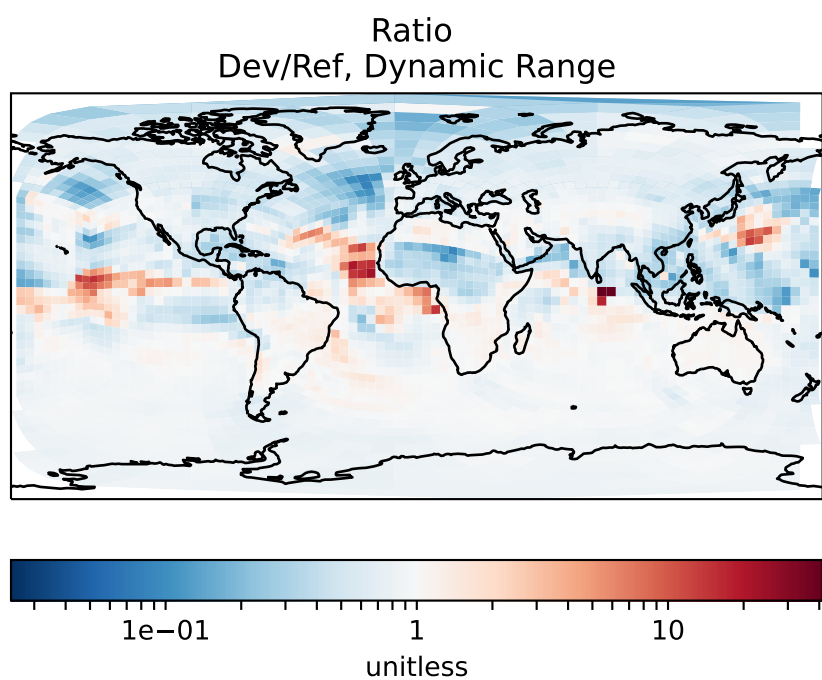
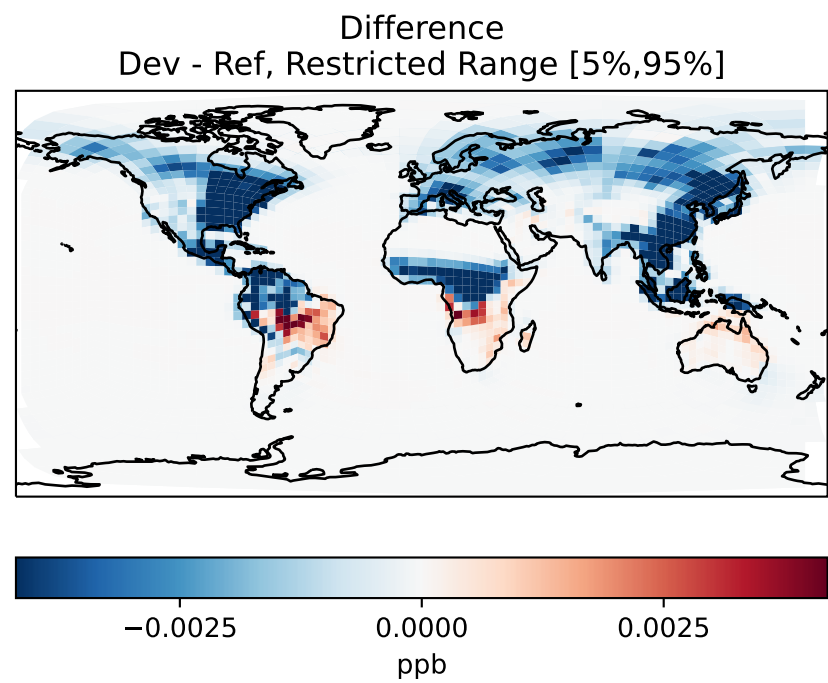
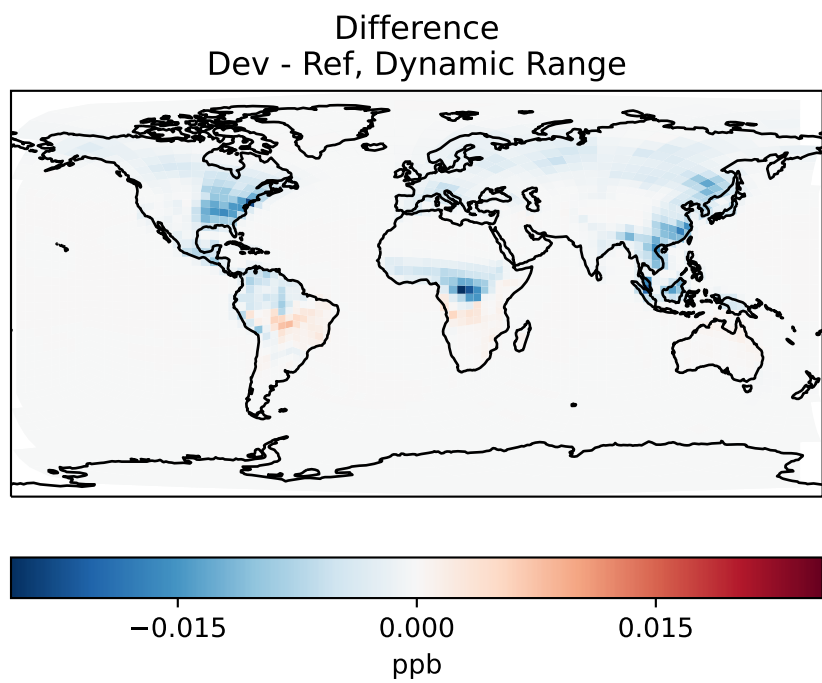
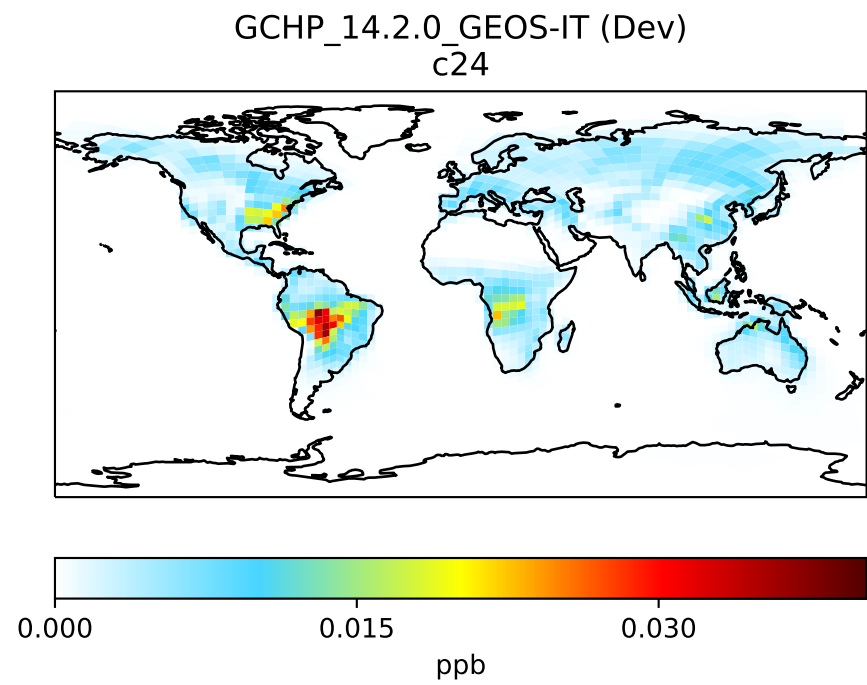
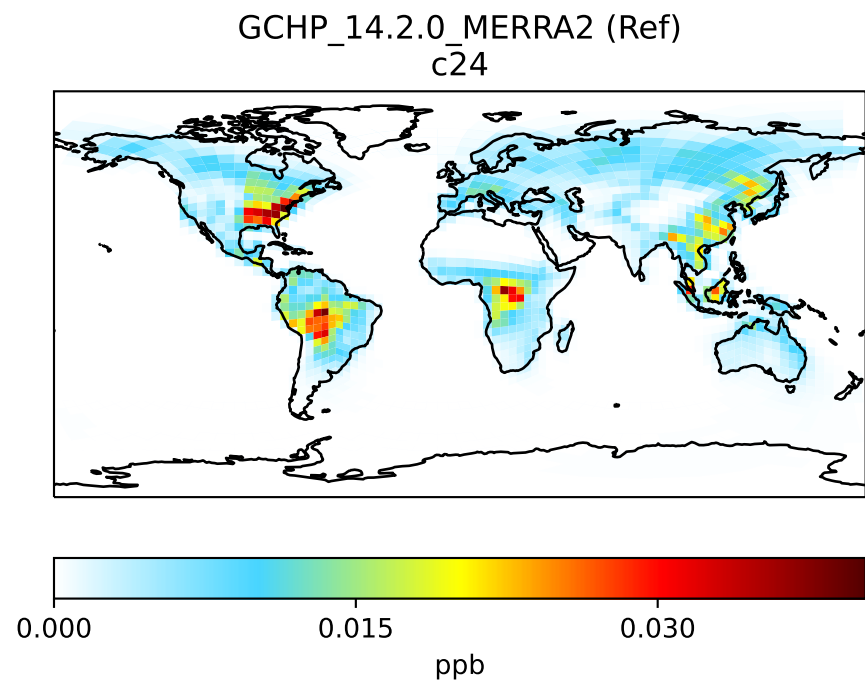
Ratio  
Dev/Ref, Dynamic Range



Ratio  
Dev/Ref, Fixed Range

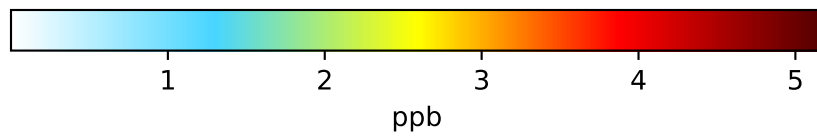
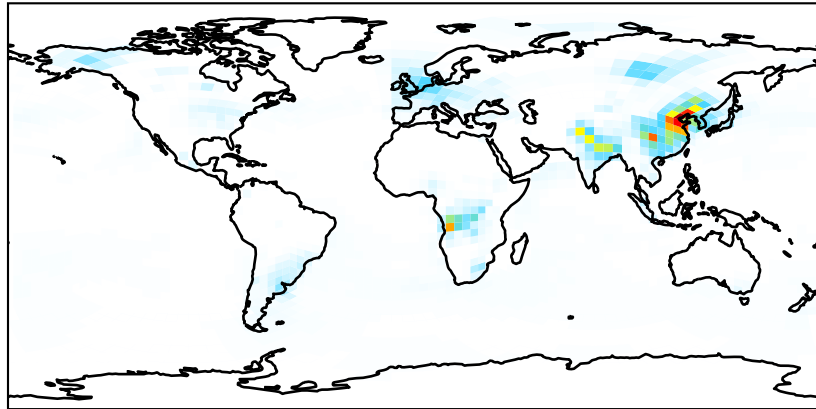


# SpeciesConcVV\_MPAN

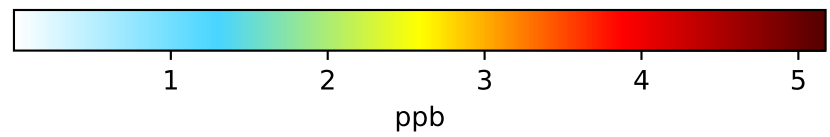
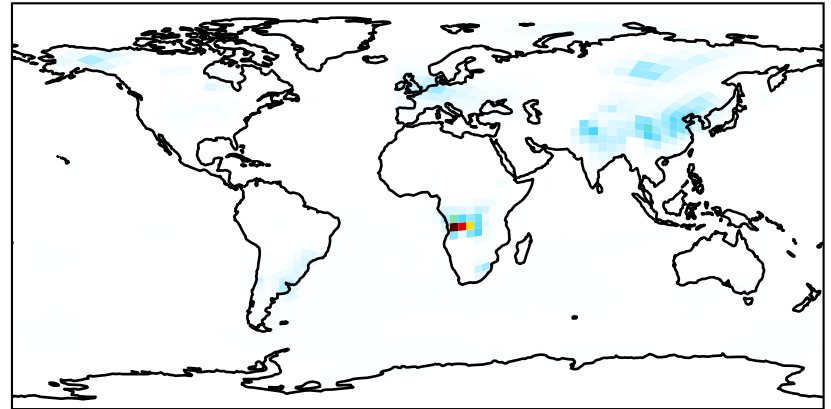


# SpeciesConcVV\_NIT

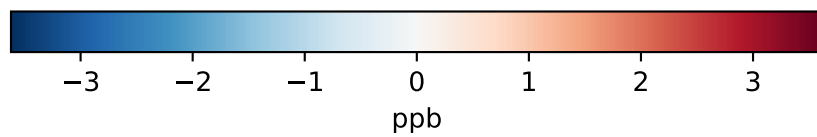
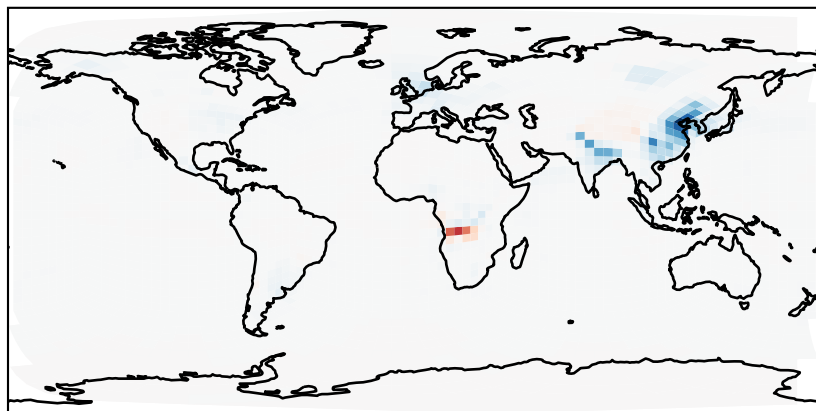
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



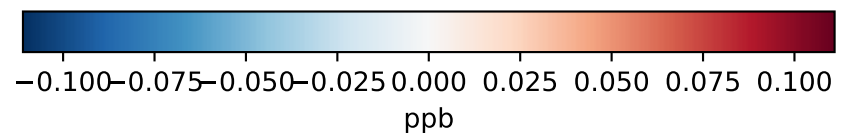
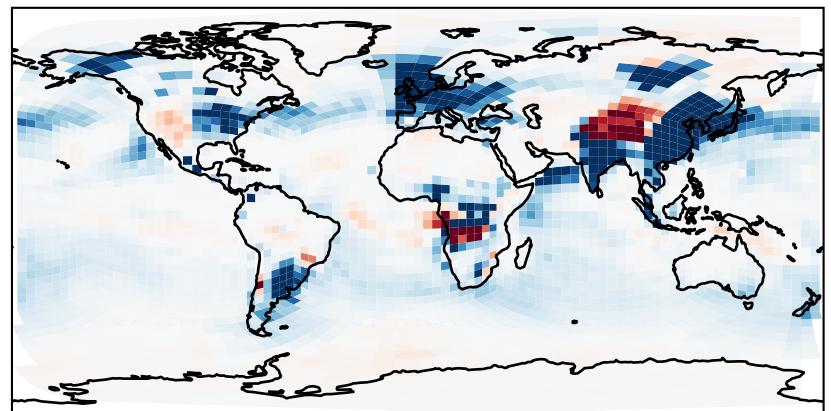
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



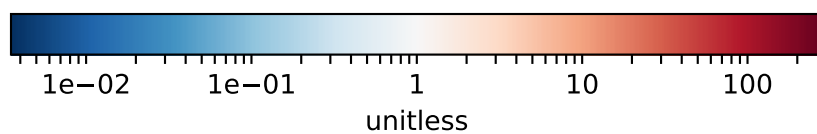
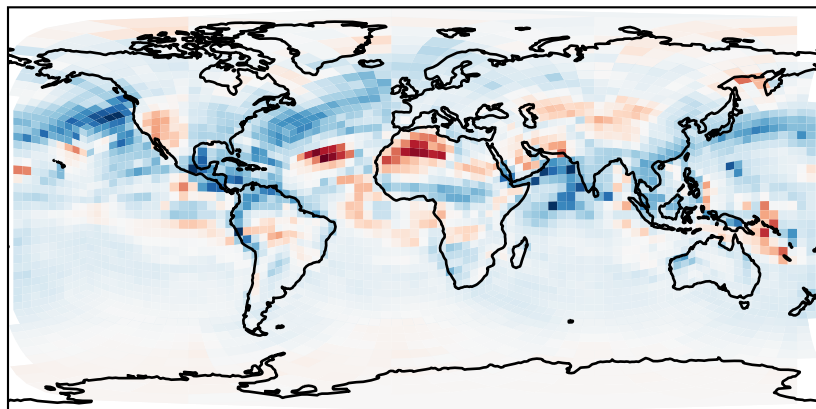
Difference  
Dev - Ref, Dynamic Range



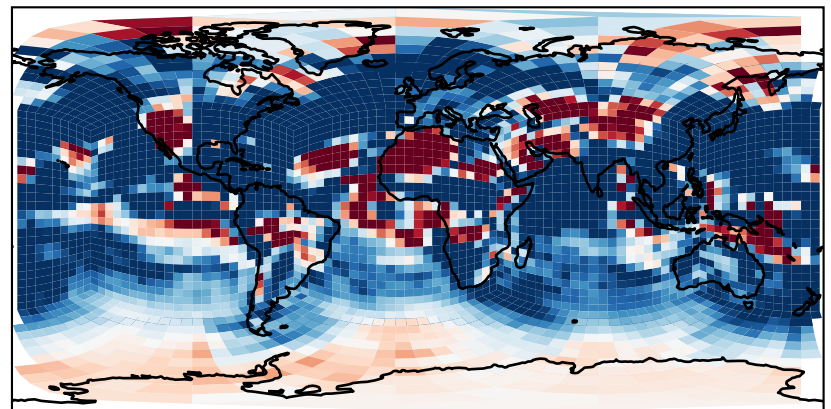
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



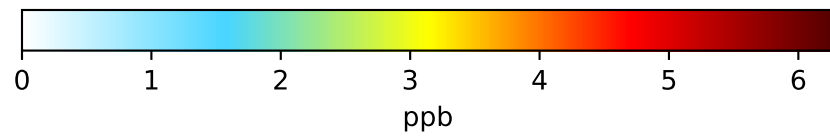
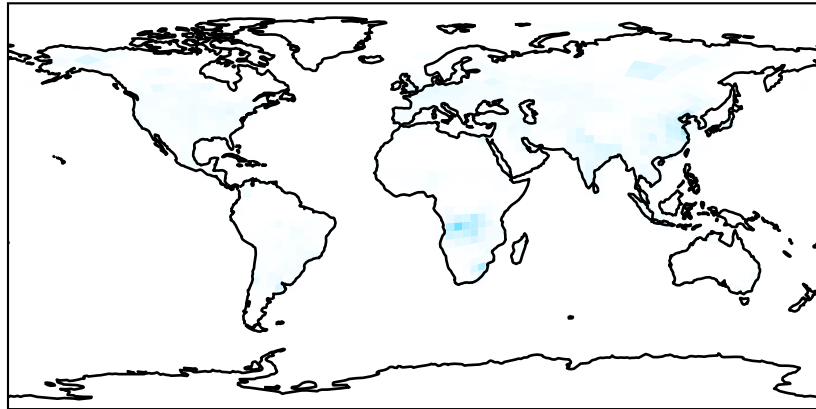
Ratio  
Dev/Ref, Fixed Range



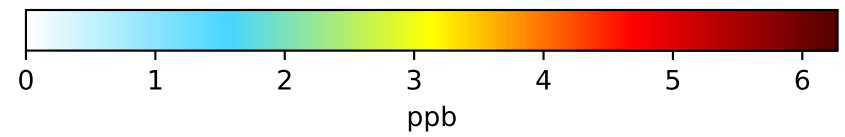
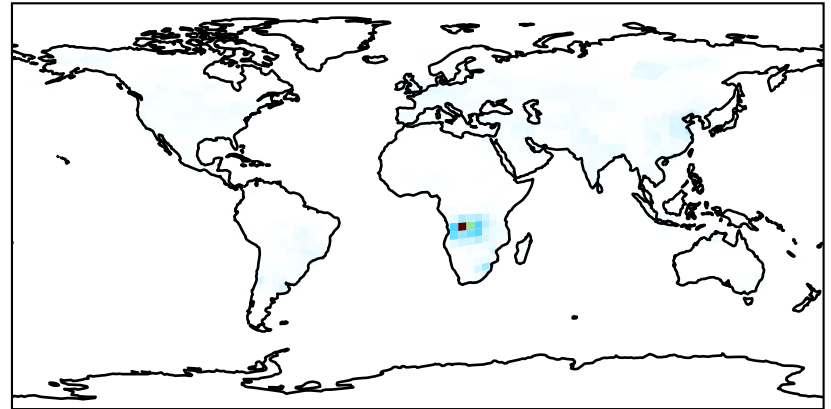


# SpeciesConcVV\_NO

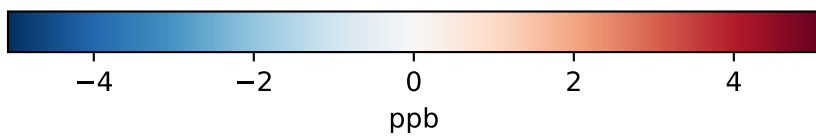
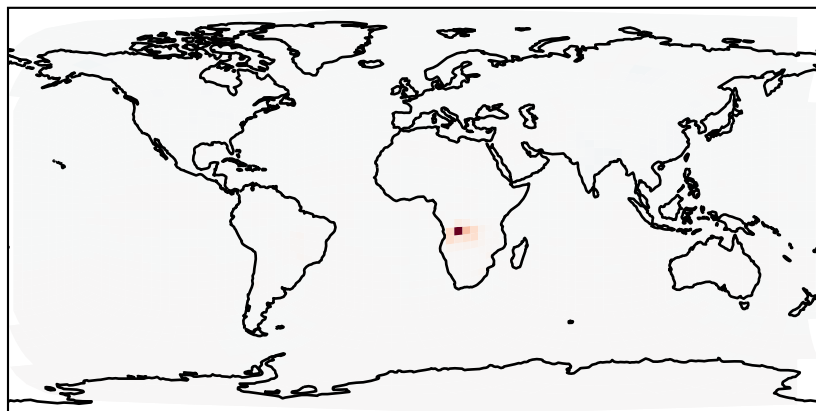
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



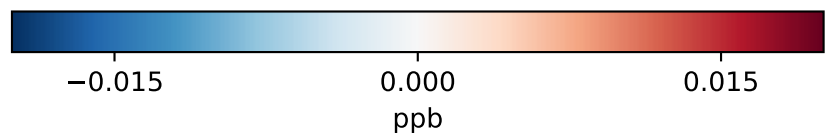
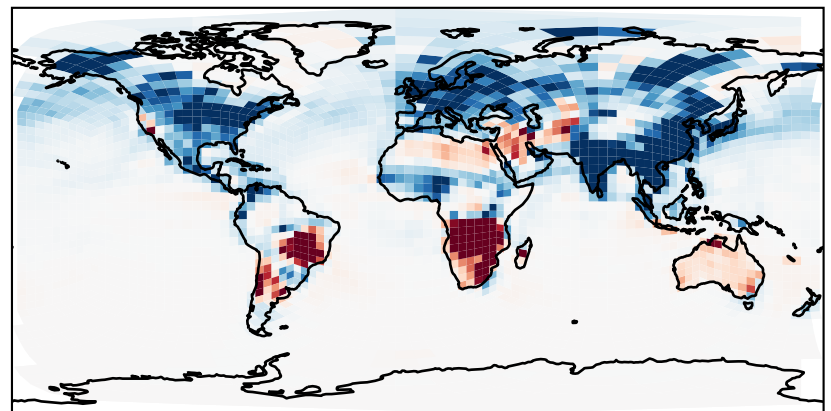
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



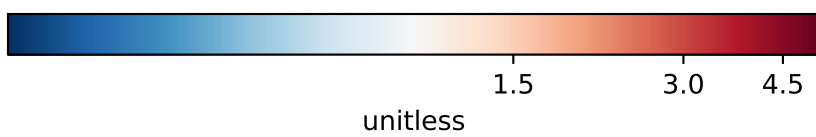
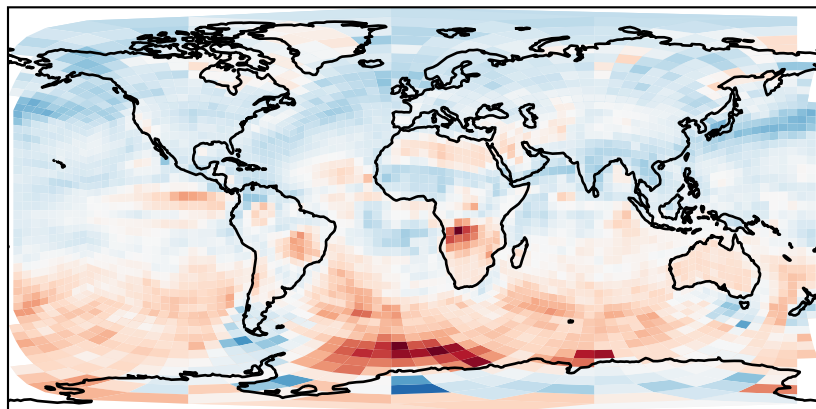
Difference  
Dev - Ref, Dynamic Range



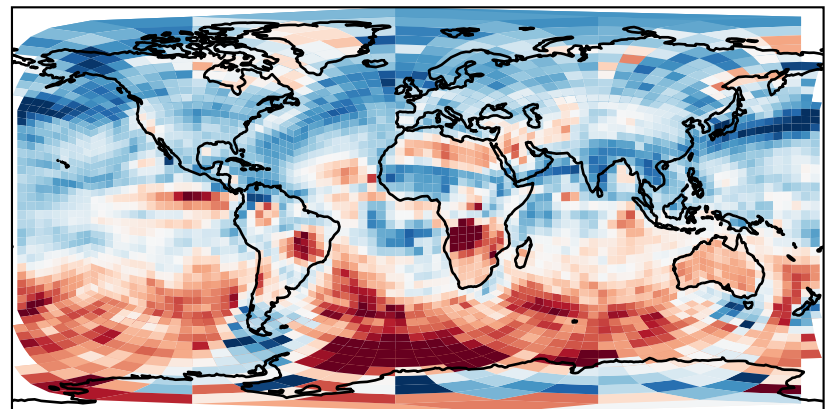
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

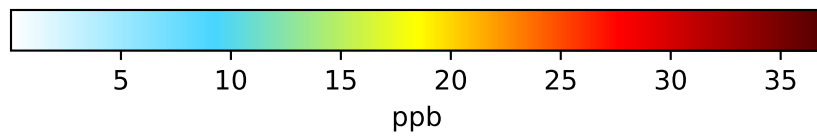
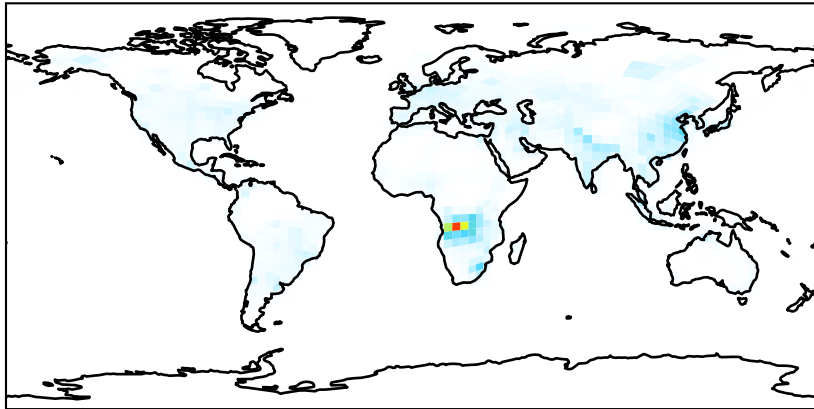


Ratio  
Dev/Ref, Fixed Range

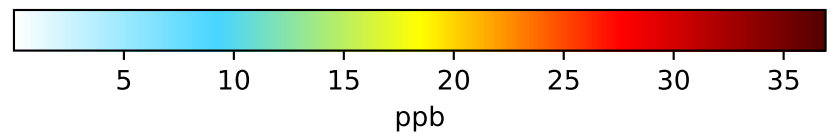
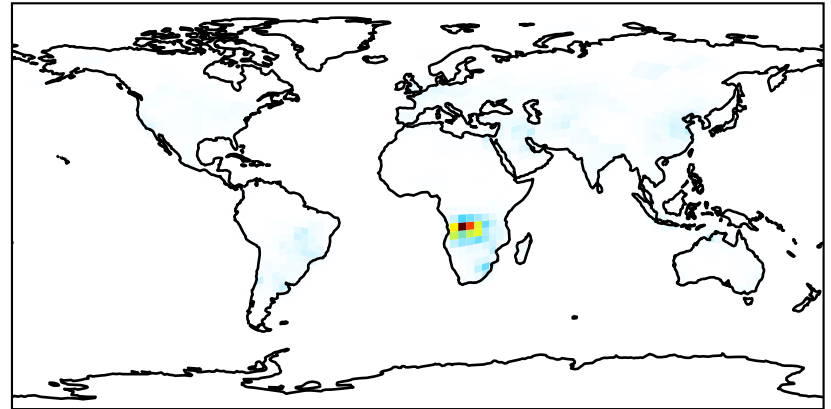


# SpeciesConcVV\_NO2

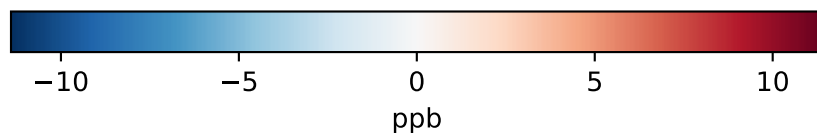
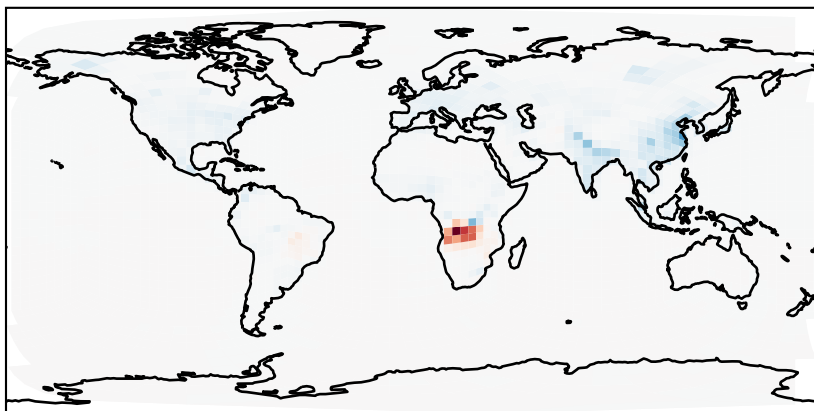
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



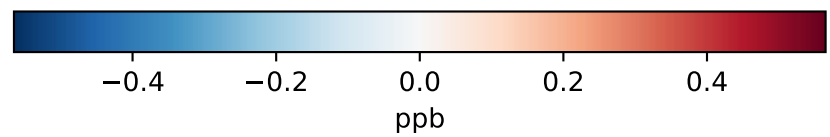
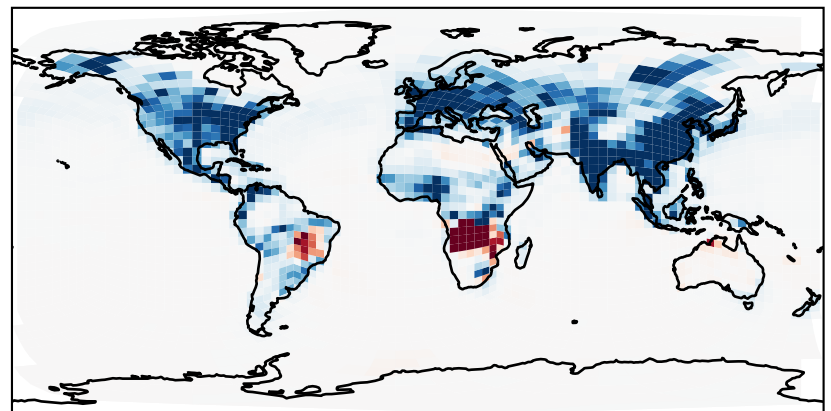
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



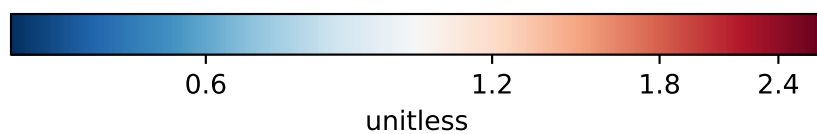
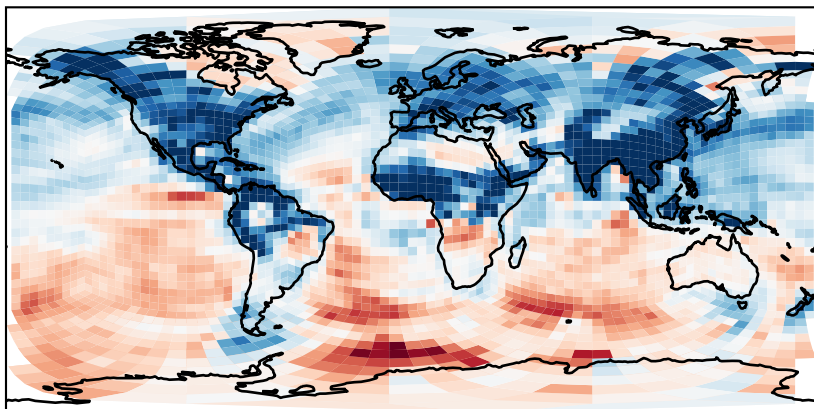
Difference  
Dev - Ref, Dynamic Range



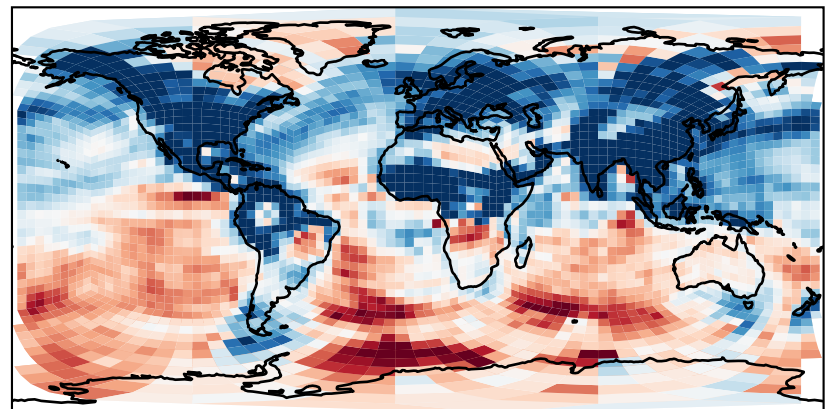
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

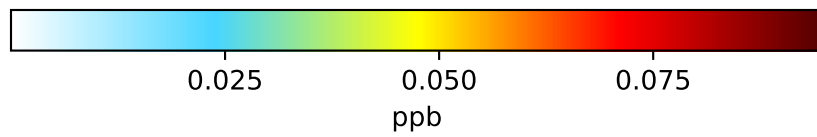
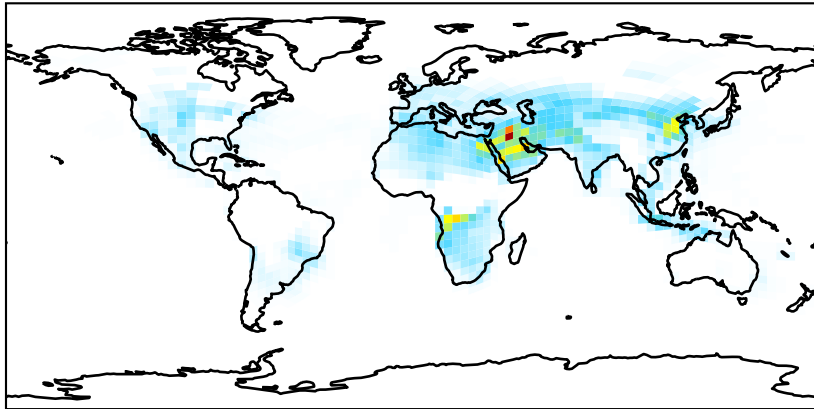


Ratio  
Dev/Ref, Fixed Range

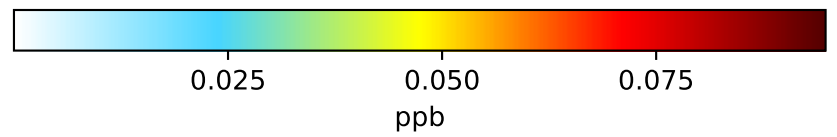
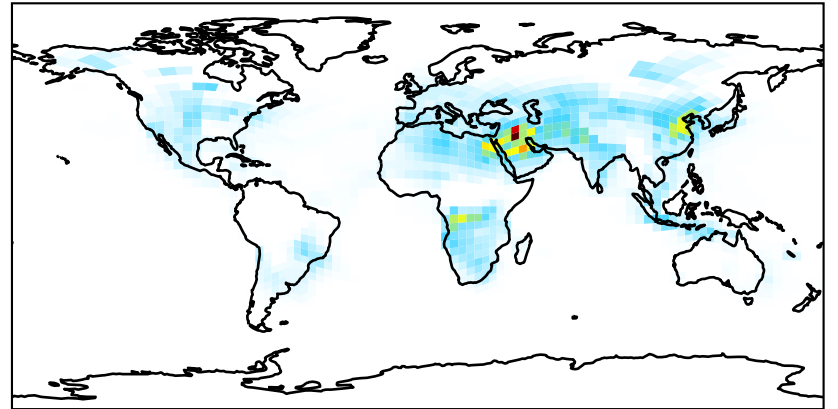


# SpeciesConcVV\_NO3

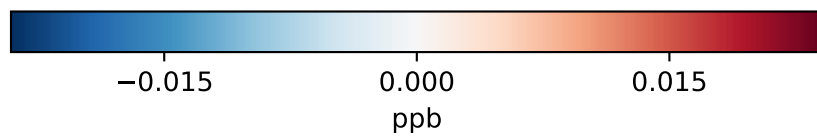
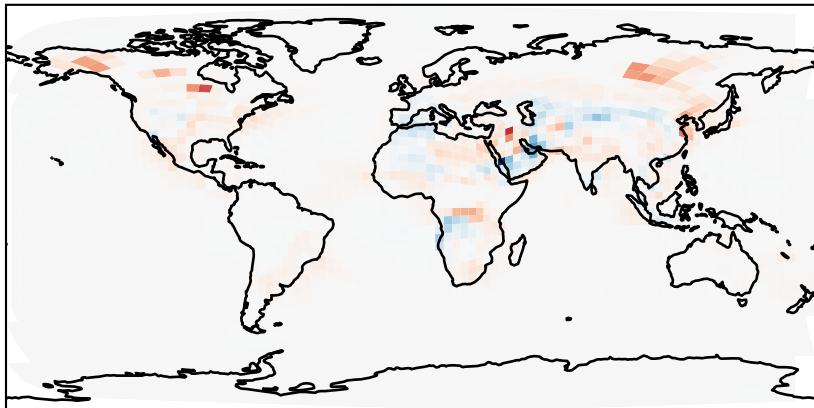
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



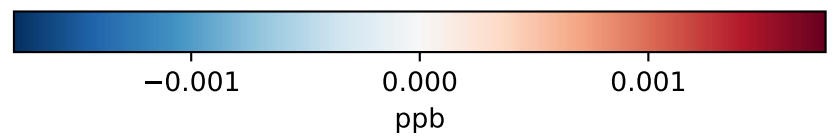
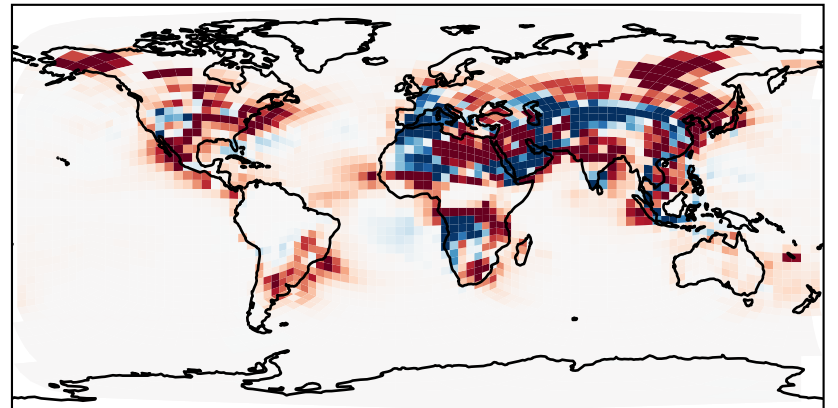
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



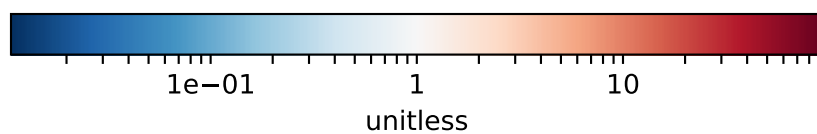
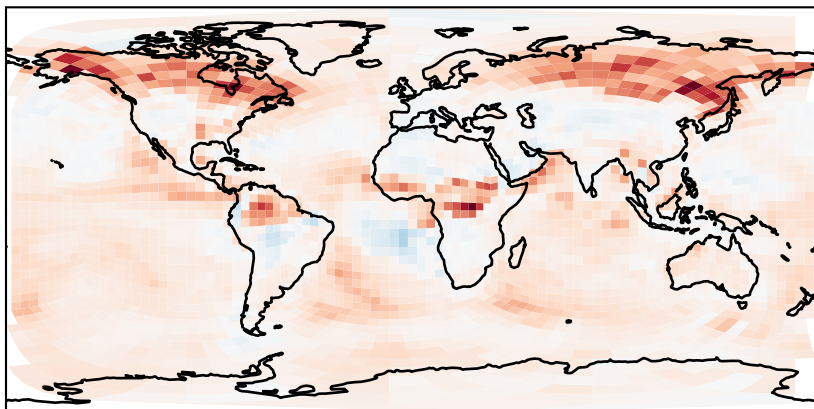
Difference  
Dev - Ref, Dynamic Range



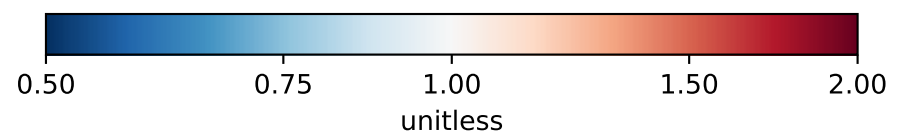
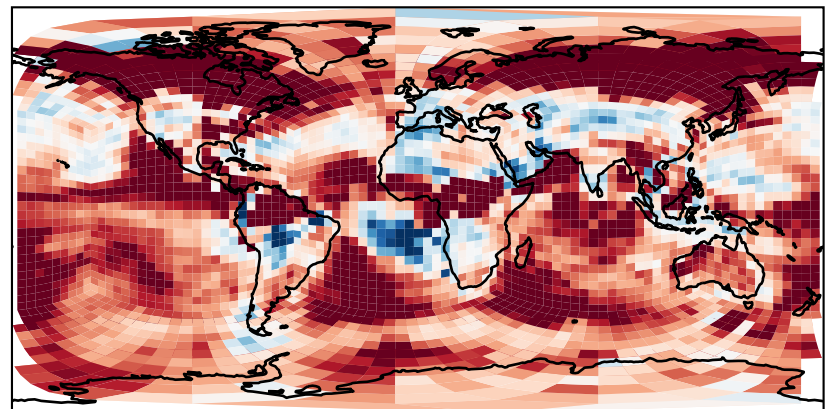
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



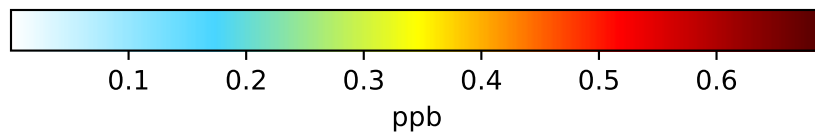
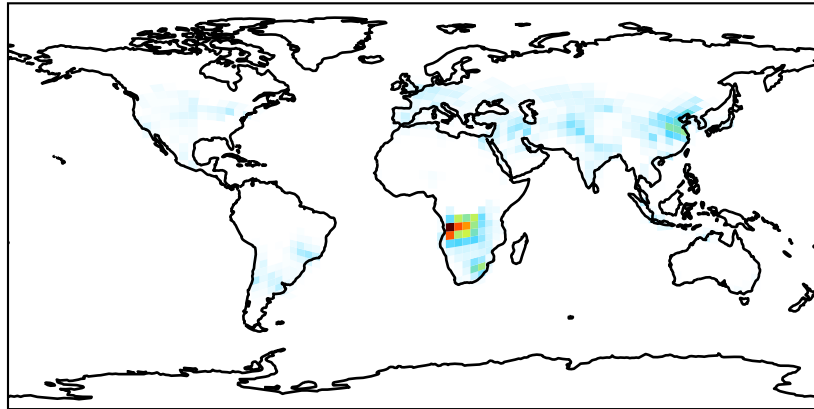
Ratio  
Dev/Ref, Fixed Range



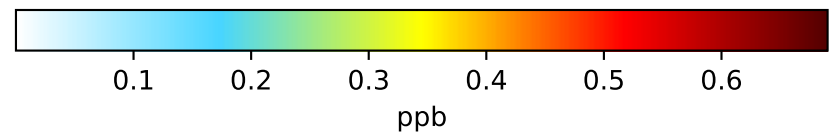
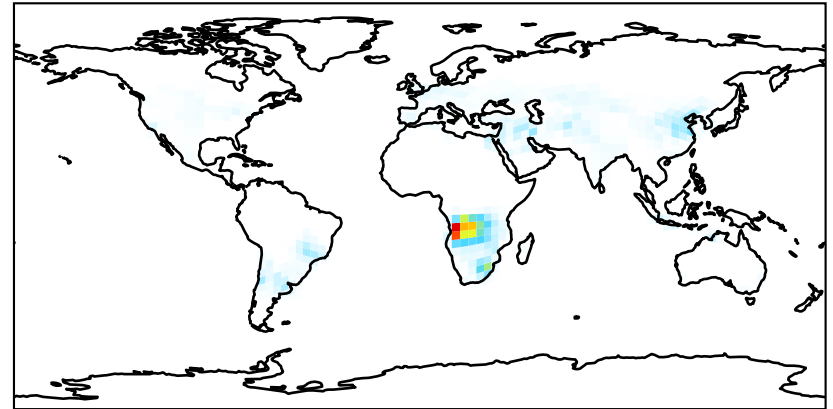


# SpeciesConcVW\_N2O5

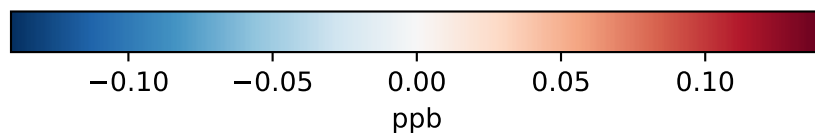
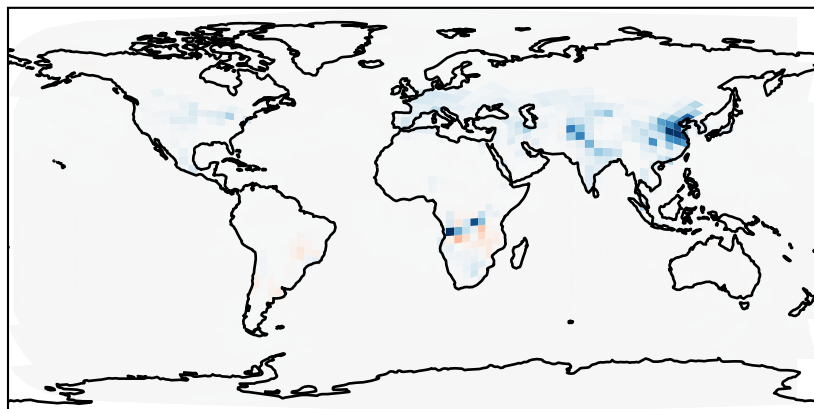
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



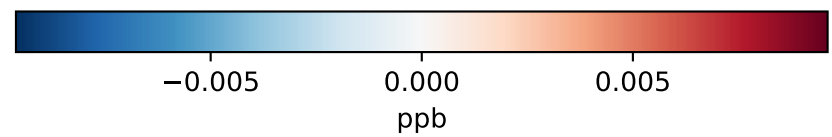
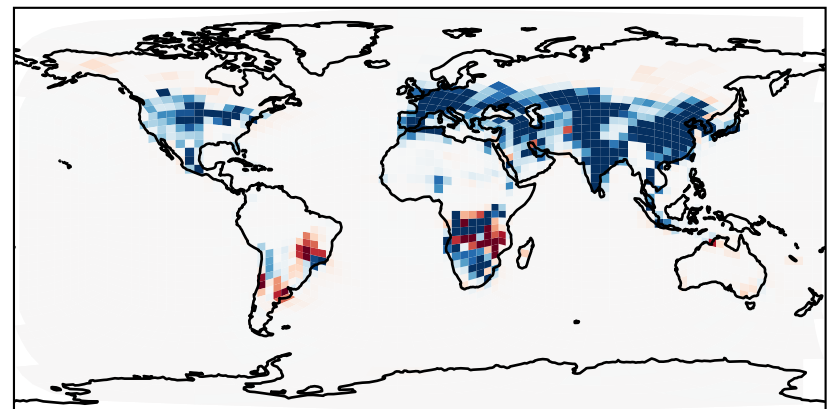
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



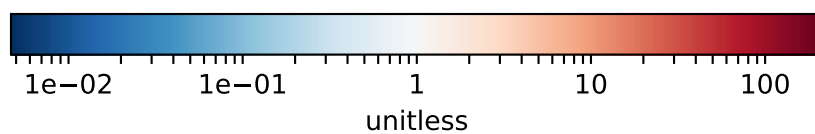
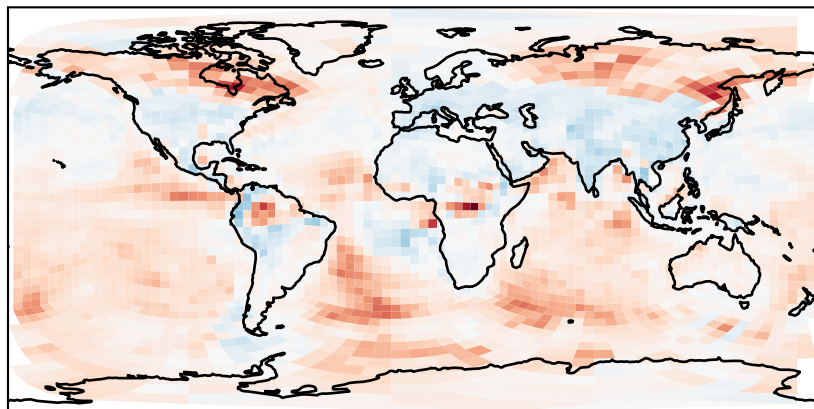
Difference  
Dev - Ref, Dynamic Range



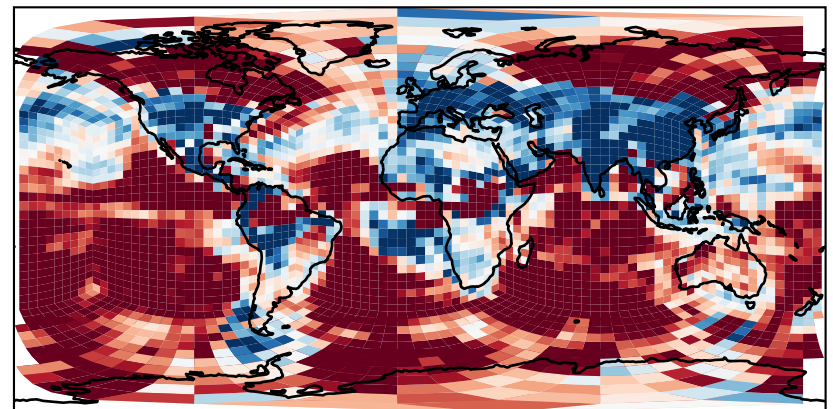
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

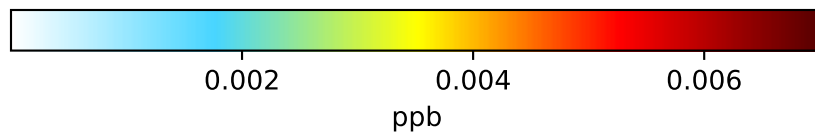
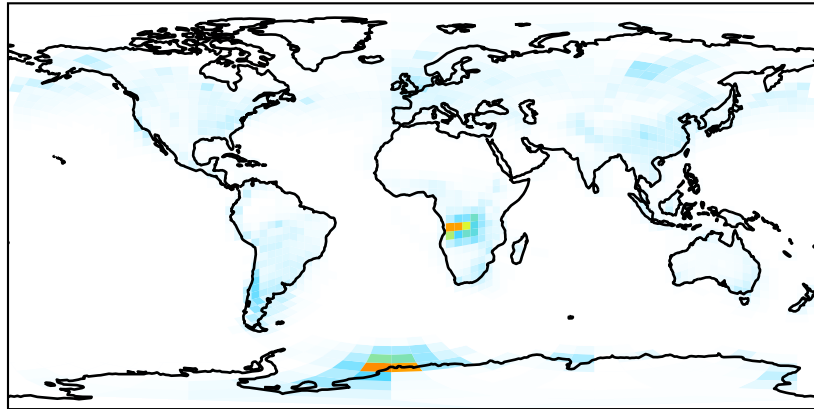


Ratio  
Dev/Ref, Fixed Range

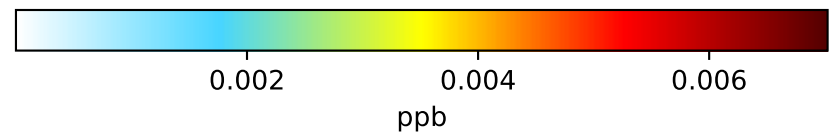
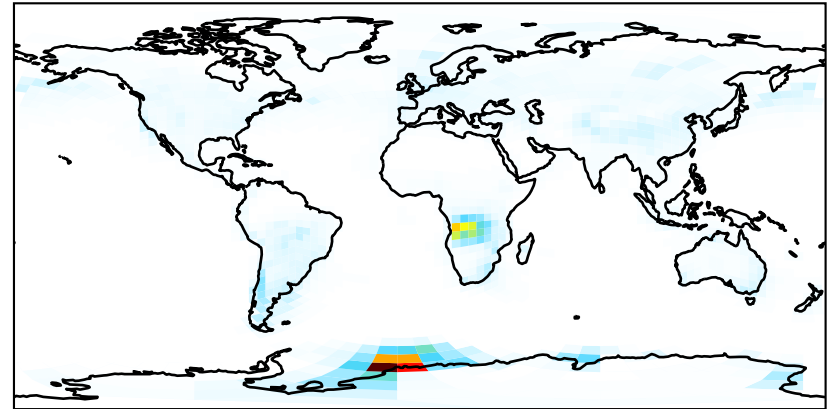


# SpeciesConcVV\_MPN

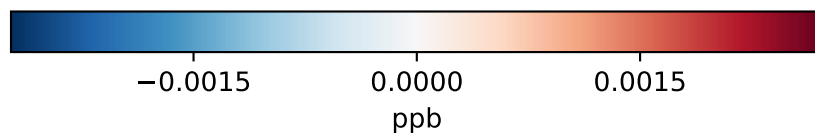
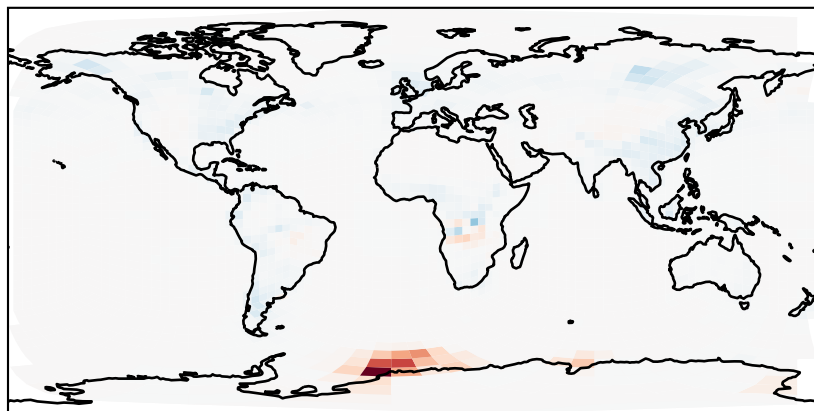
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



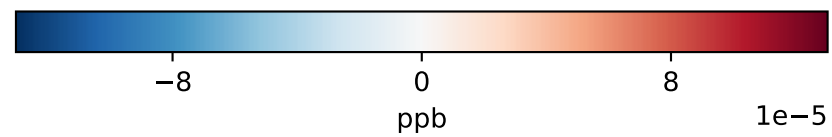
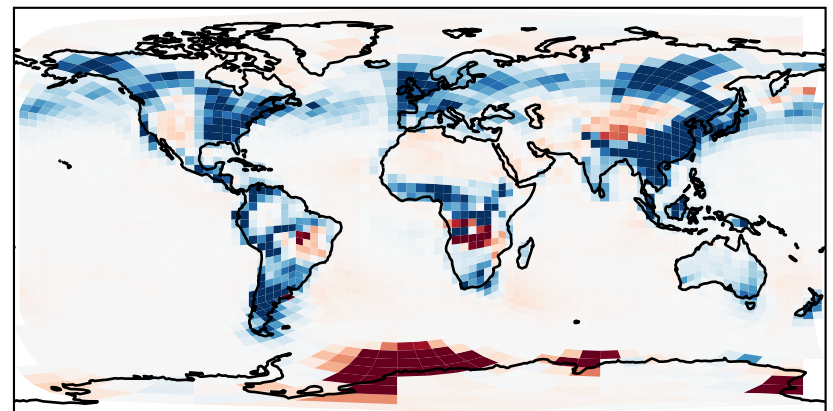
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



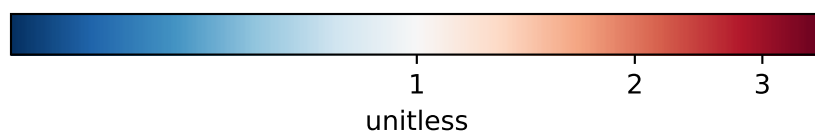
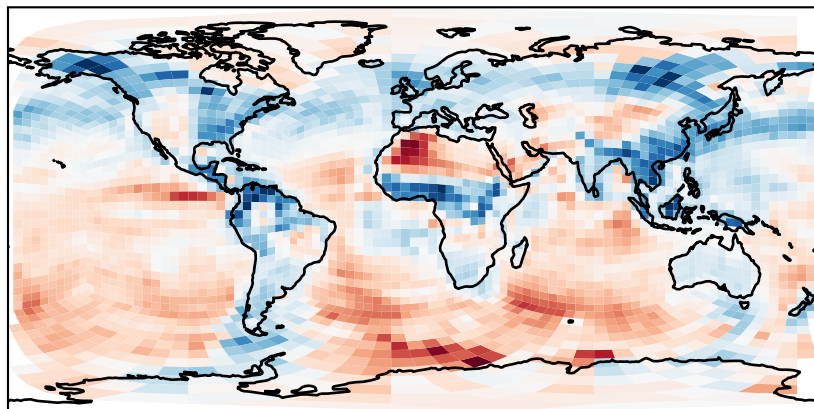
Difference  
Dev - Ref, Dynamic Range



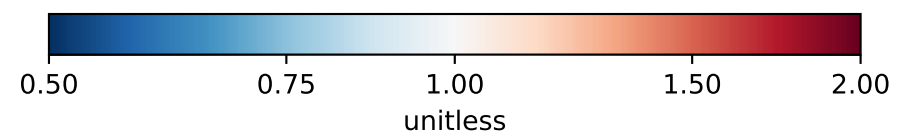
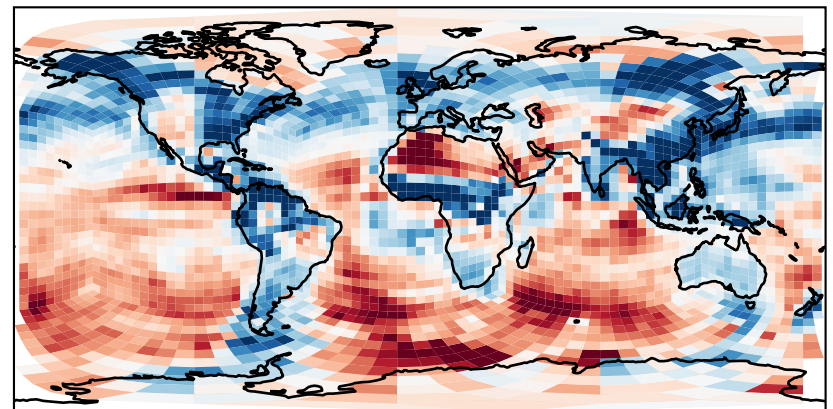
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

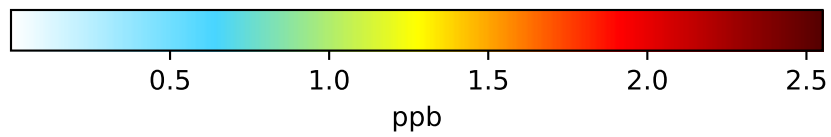
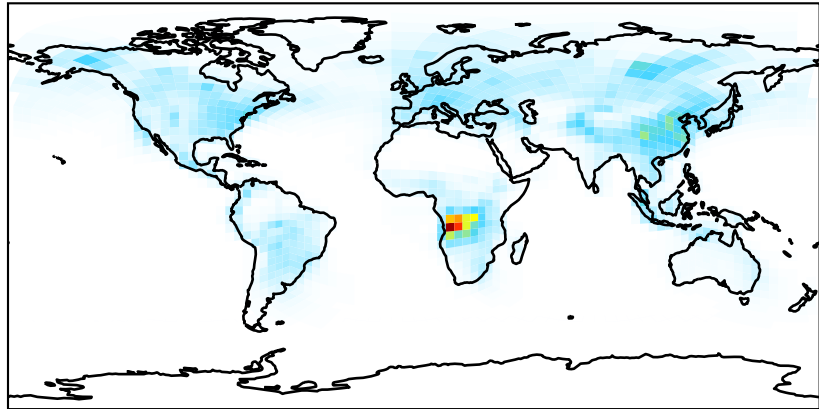


Ratio  
Dev/Ref, Fixed Range

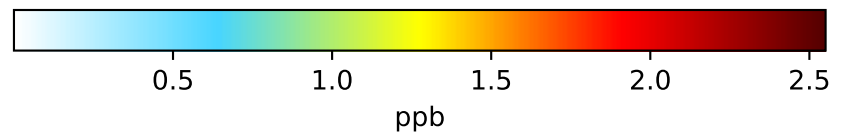
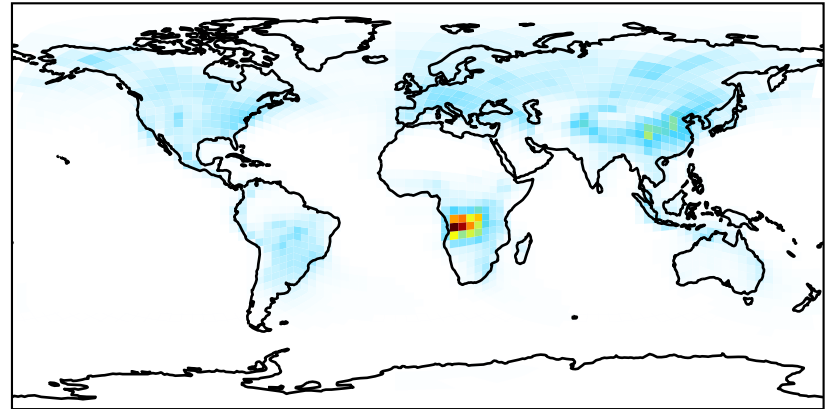


# SpeciesConcVV\_PAN

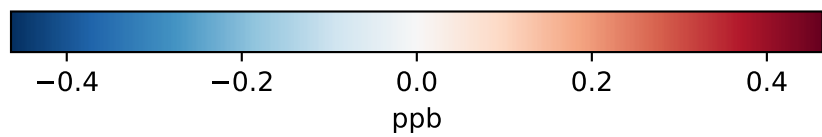
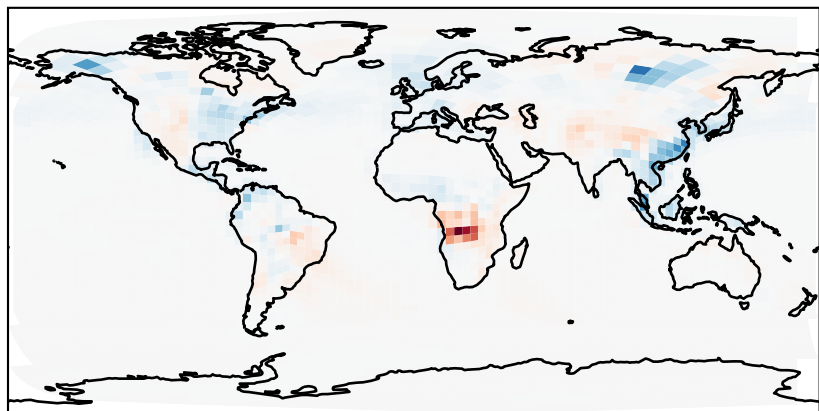
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



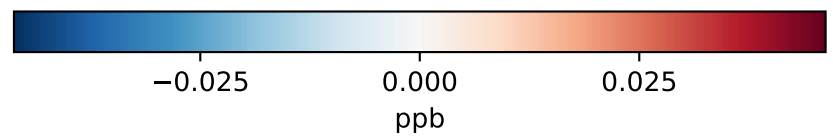
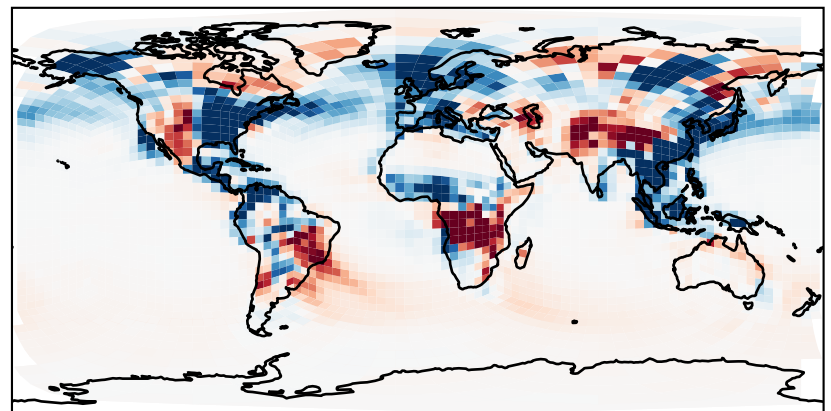
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



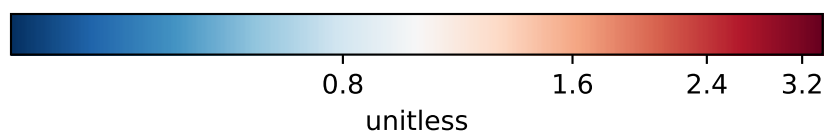
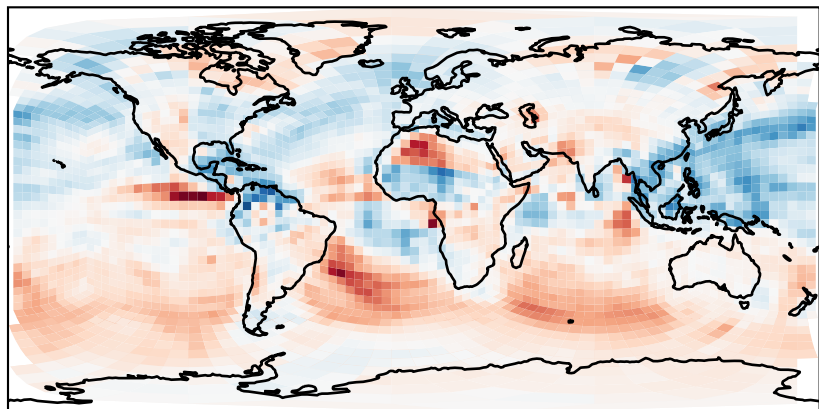
Difference  
Dev - Ref, Dynamic Range



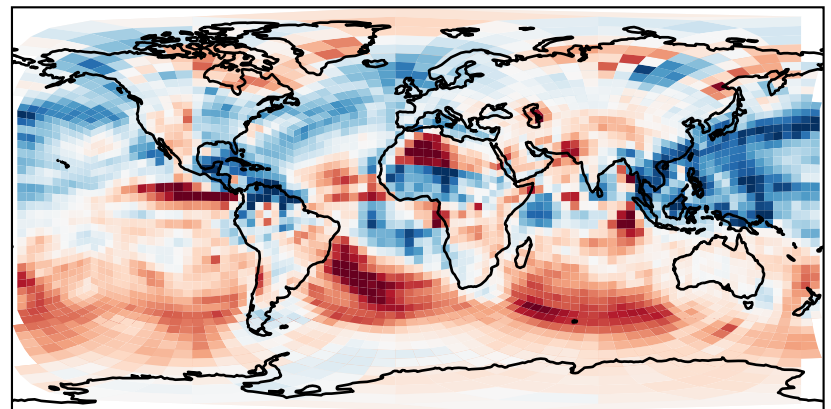
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



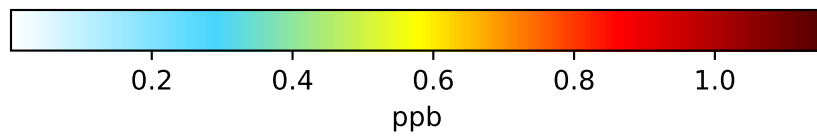
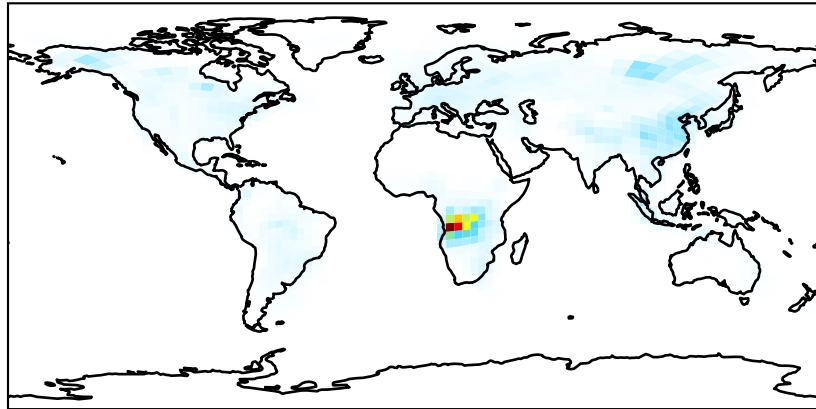
Ratio  
Dev/Ref, Fixed Range



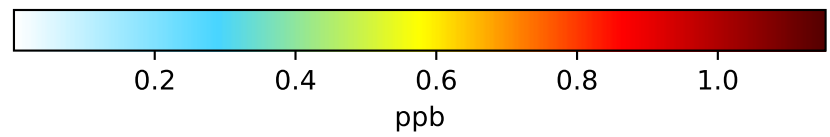
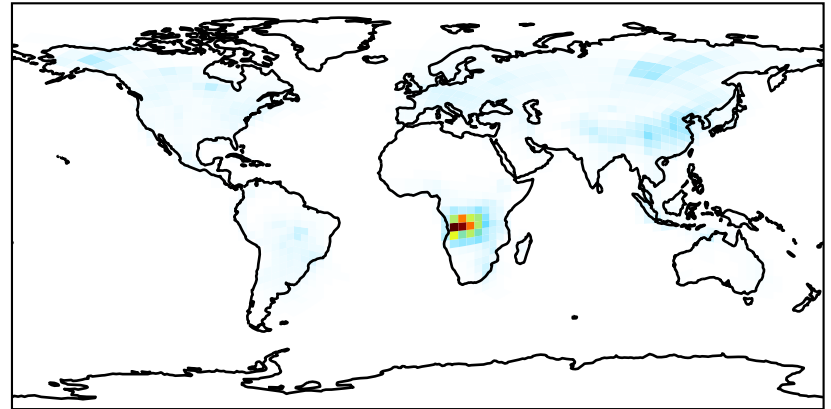


# SpeciesConcVV\_PPN

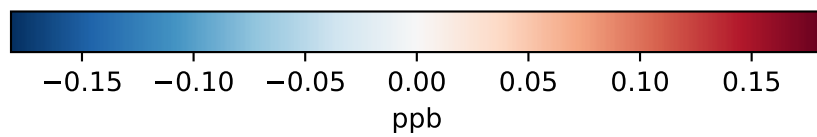
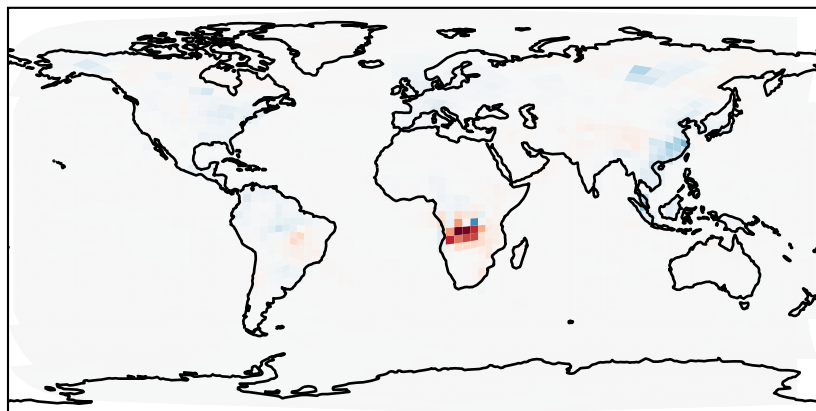
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



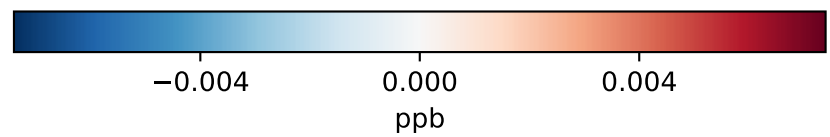
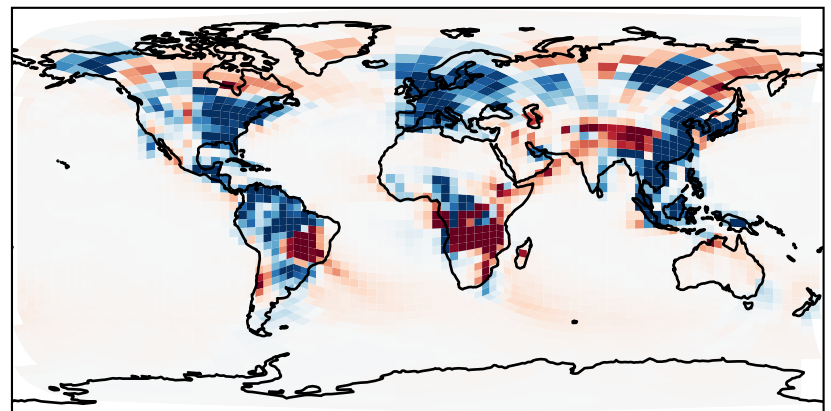
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



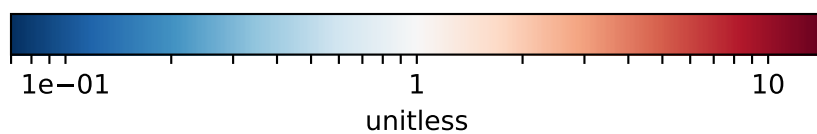
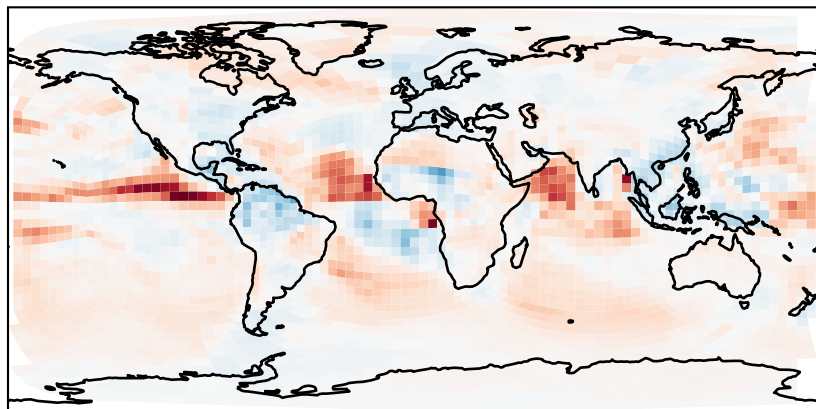
Difference  
Dev - Ref, Dynamic Range



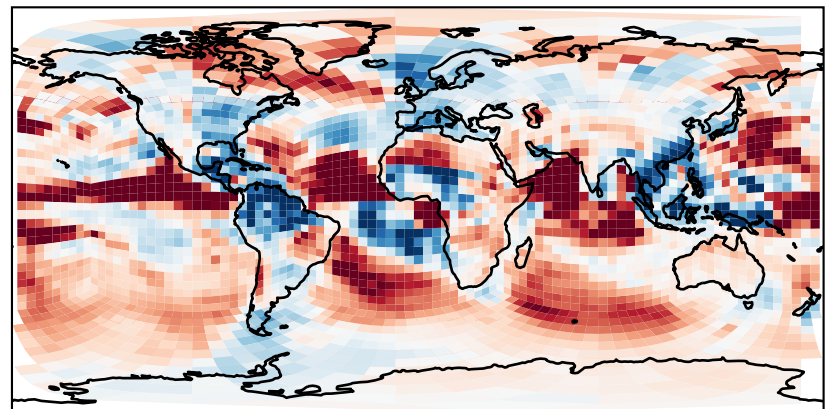
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

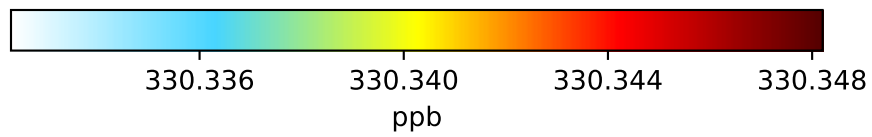
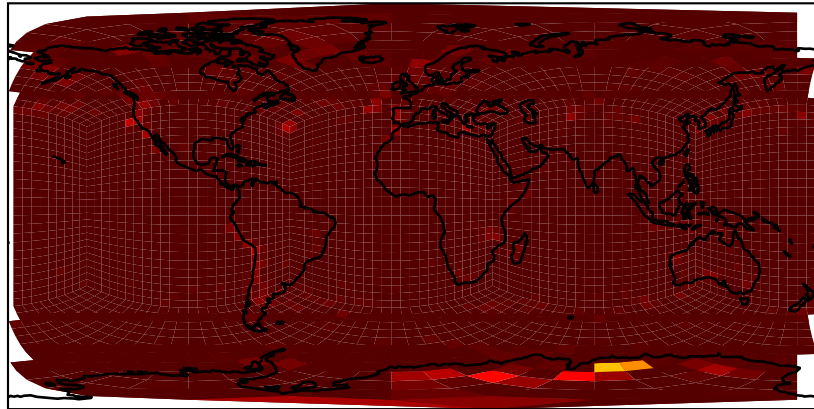


Ratio  
Dev/Ref, Fixed Range

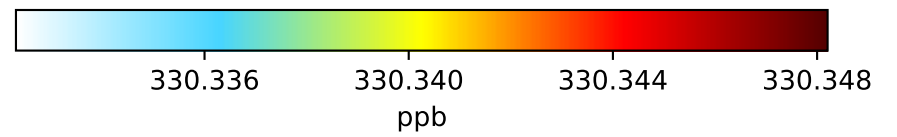
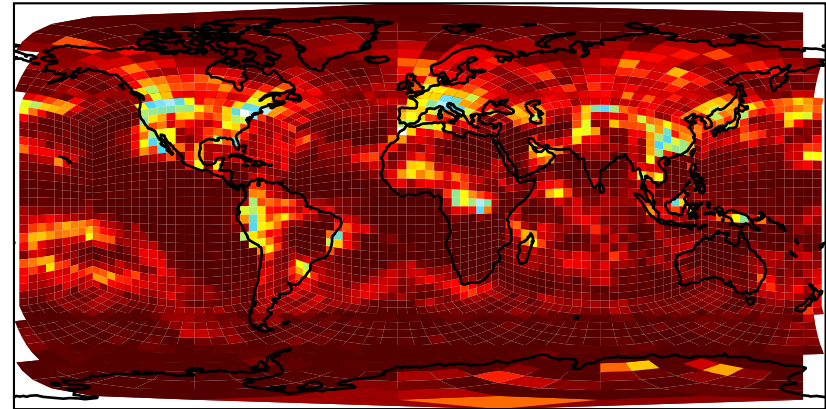


# SpeciesConcVV\_N2O

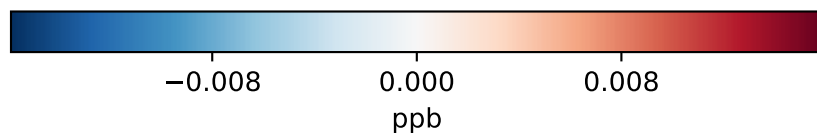
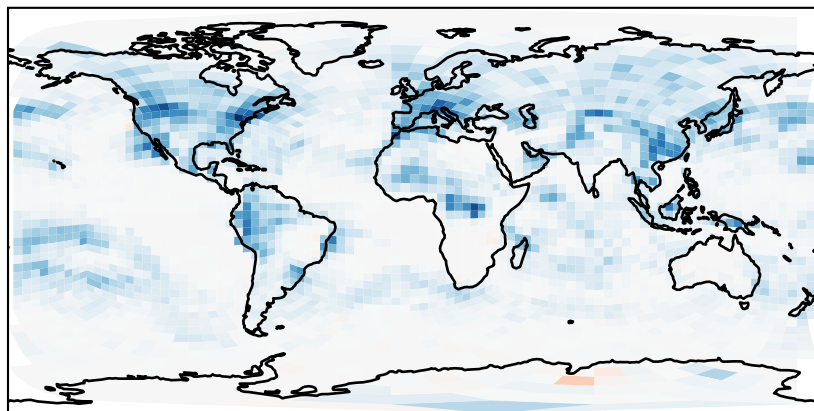
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



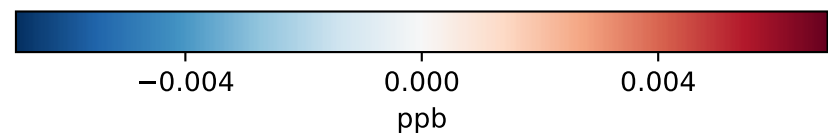
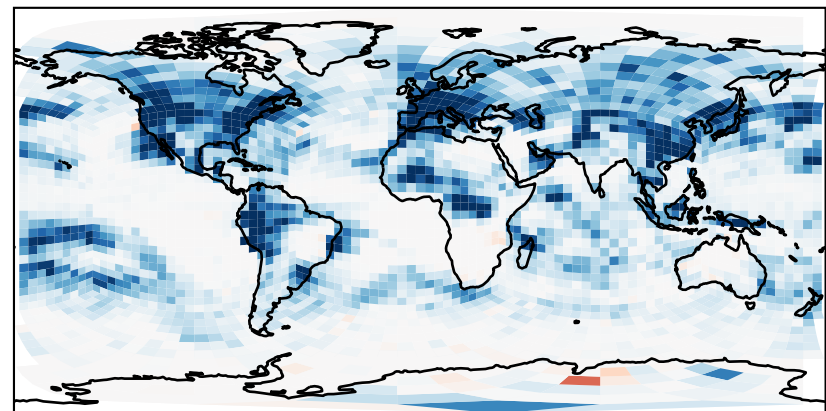
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



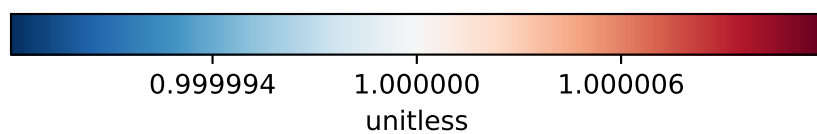
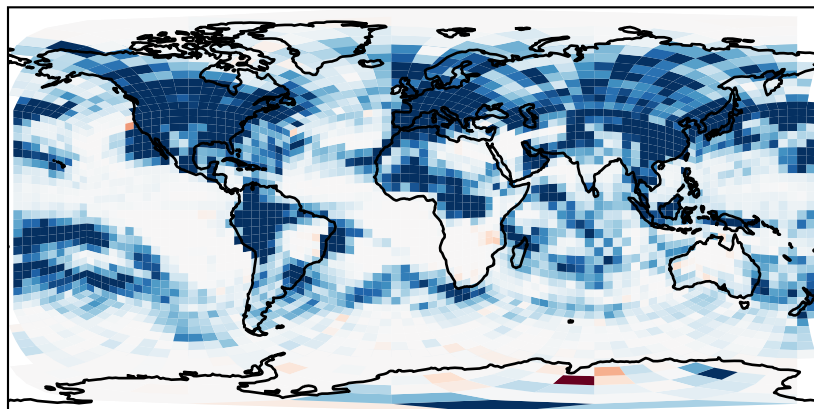
Difference  
Dev - Ref, Dynamic Range



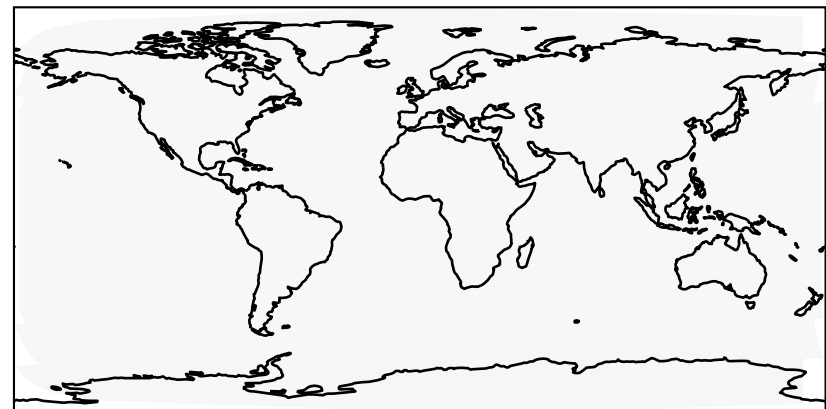
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

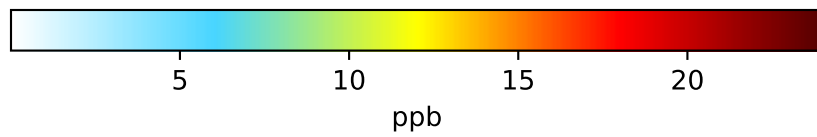
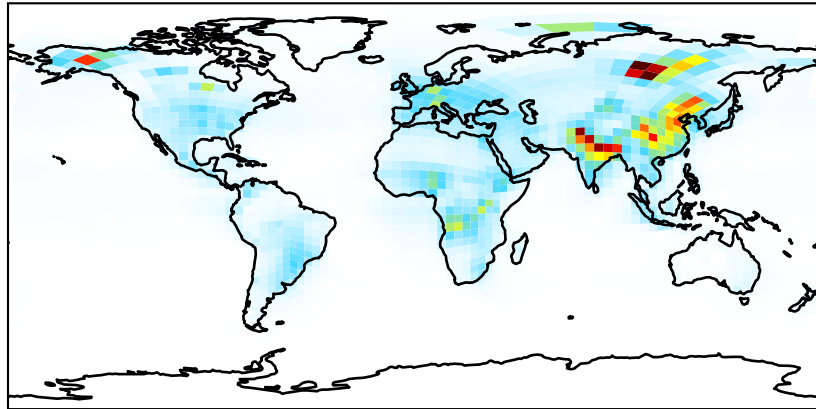


Ratio  
Dev/Ref, Fixed Range

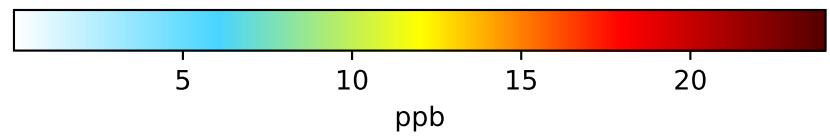
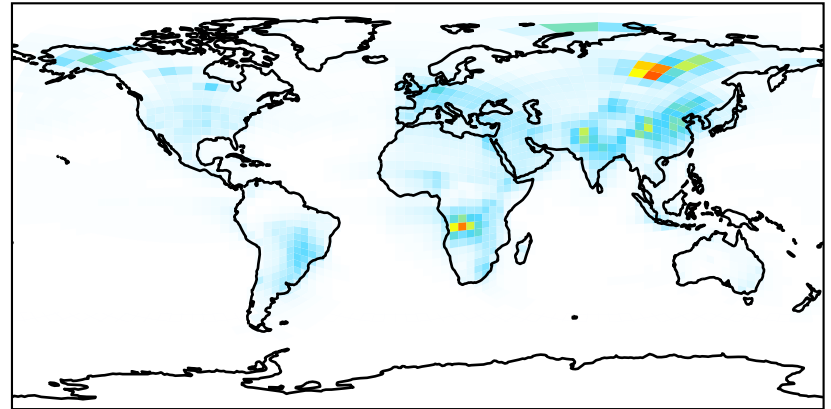


# SpeciesConcVV\_NHx

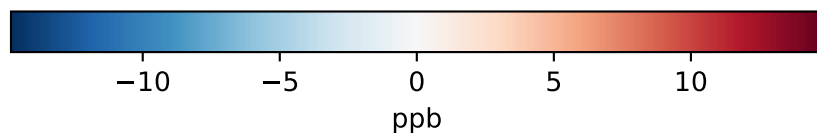
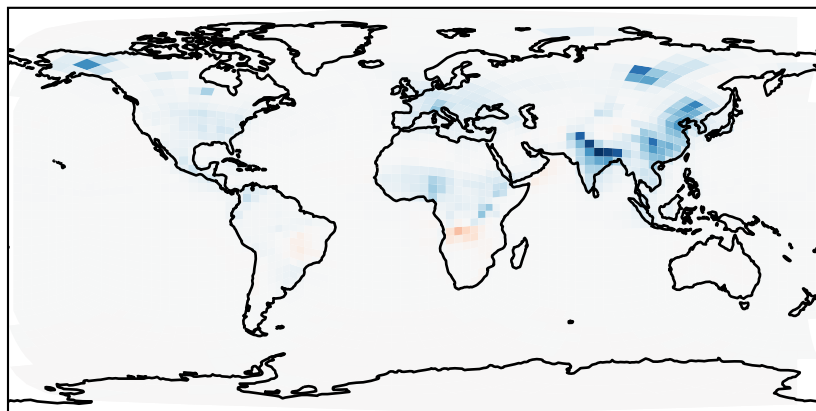
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



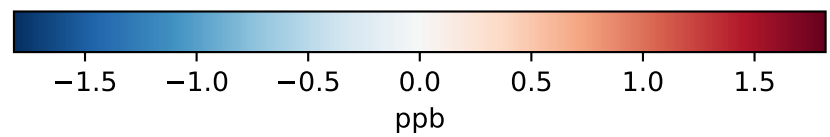
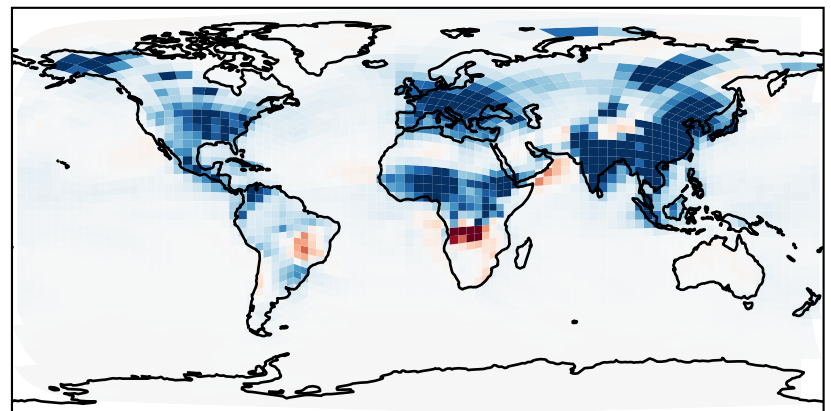
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



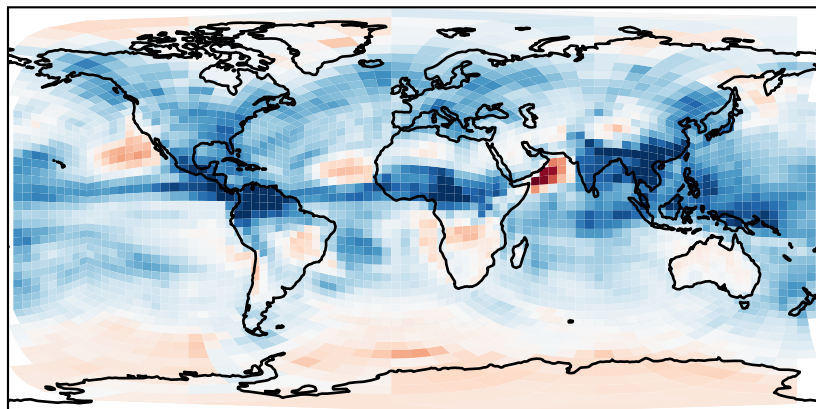
Difference  
Dev - Ref, Dynamic Range



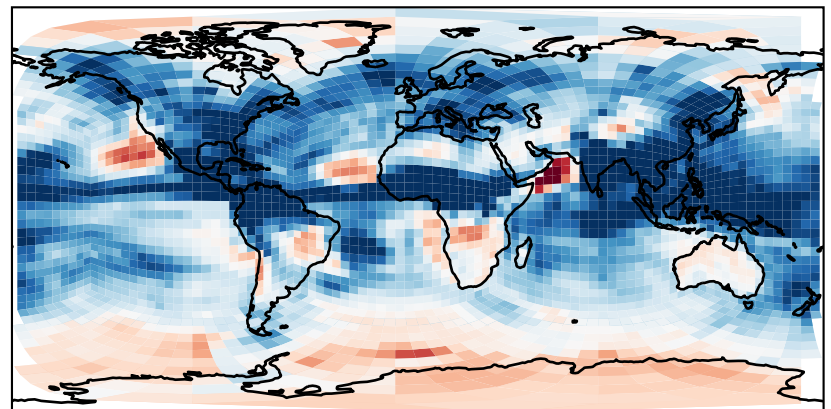
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



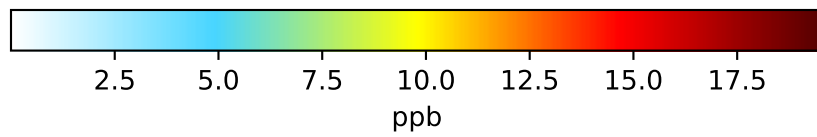
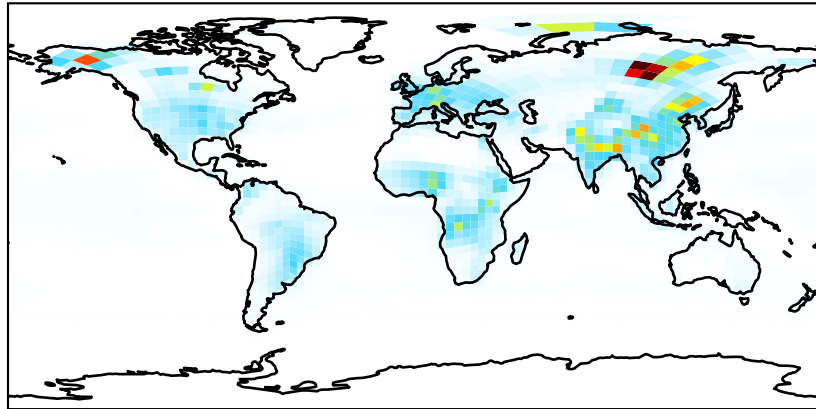
Ratio  
Dev/Ref, Fixed Range



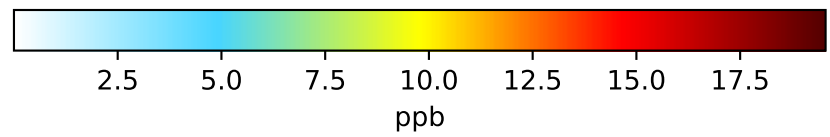
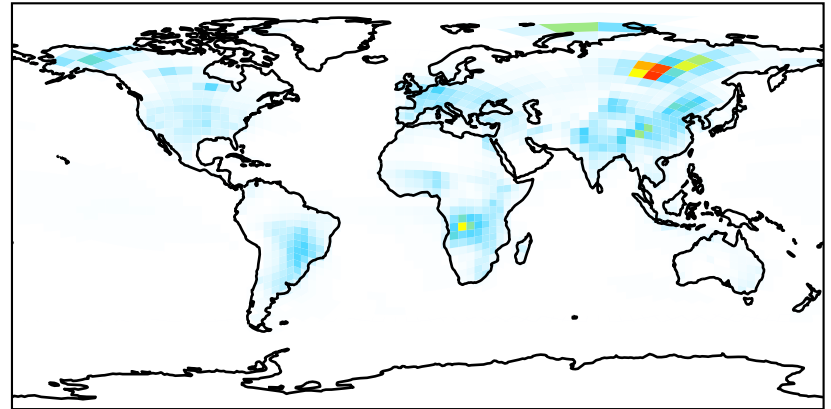


# SpeciesConcVV\_NH3

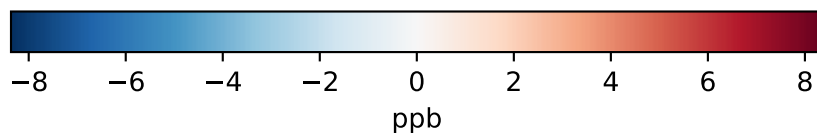
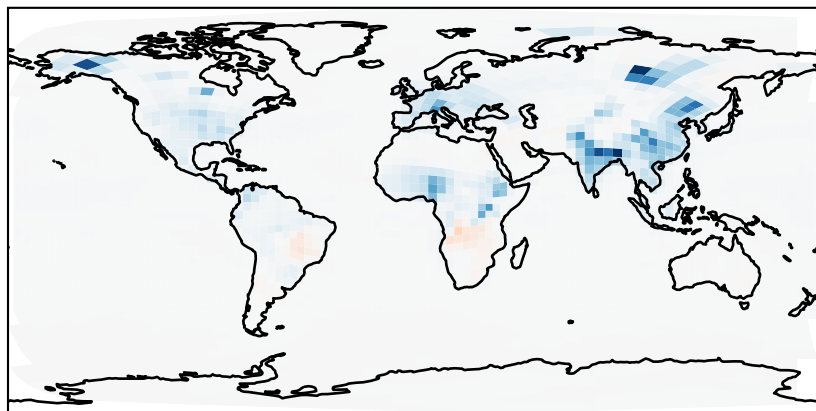
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



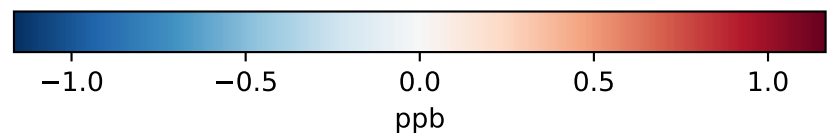
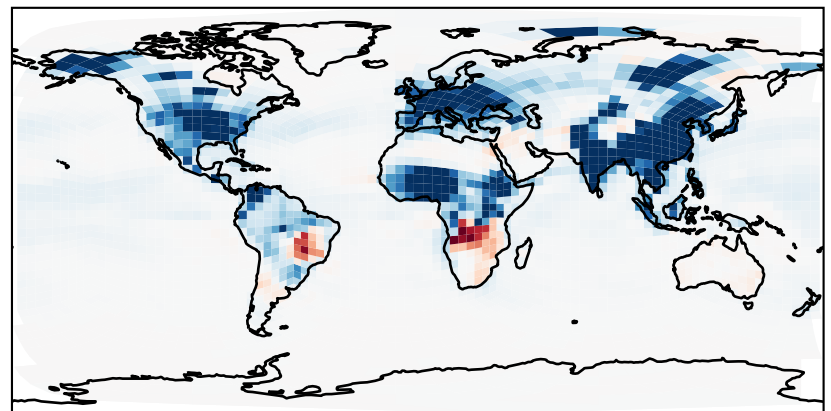
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



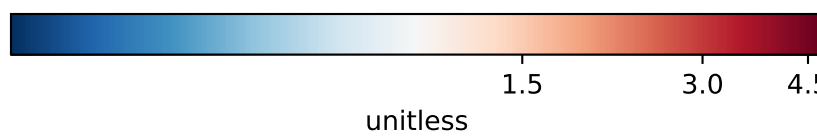
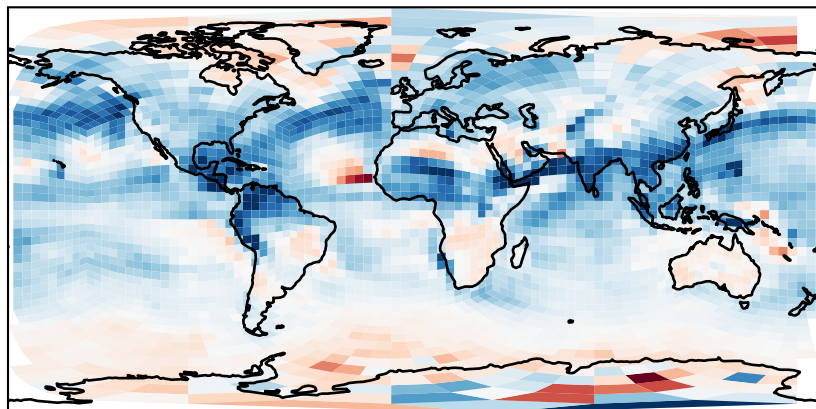
Difference  
Dev - Ref, Dynamic Range



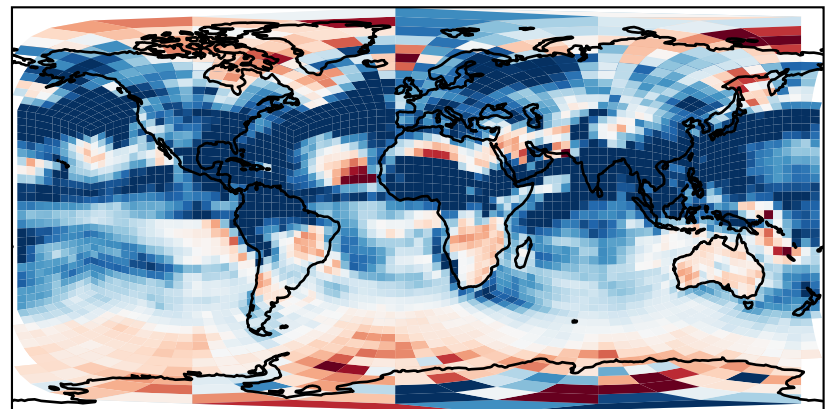
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

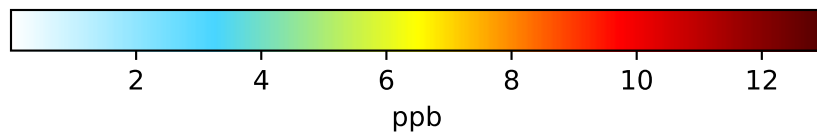
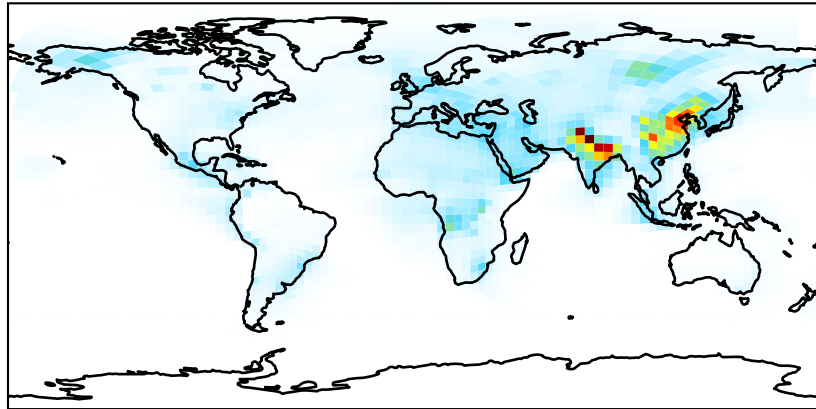


Ratio  
Dev/Ref, Fixed Range

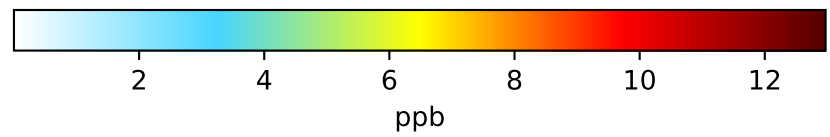
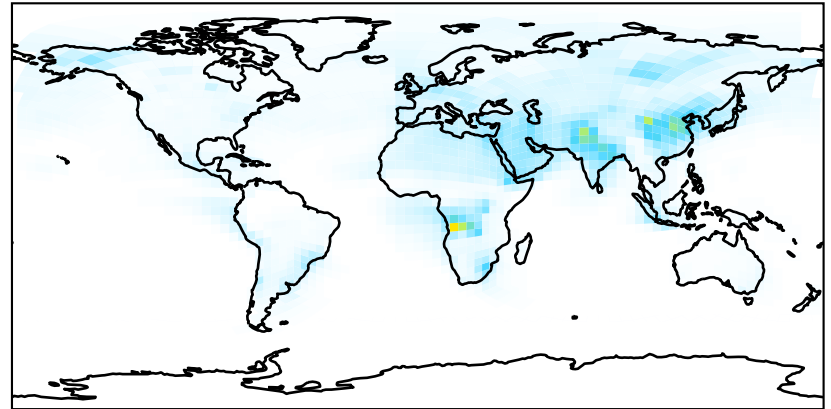


# SpeciesConcVV\_NH4

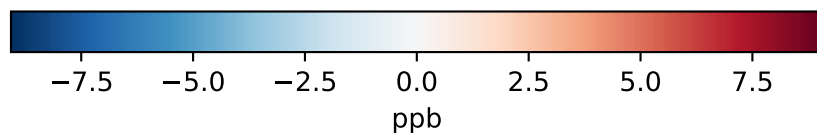
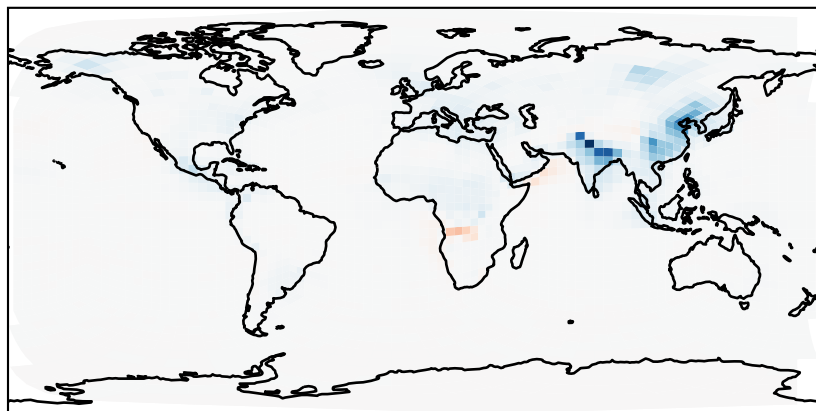
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



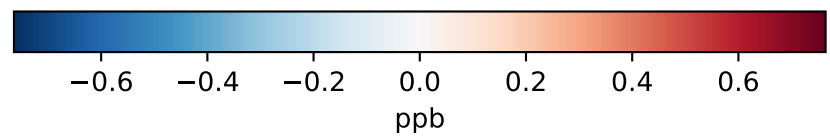
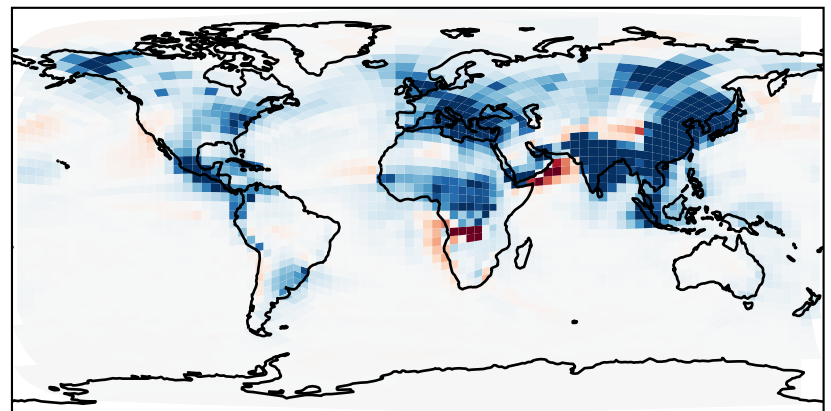
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



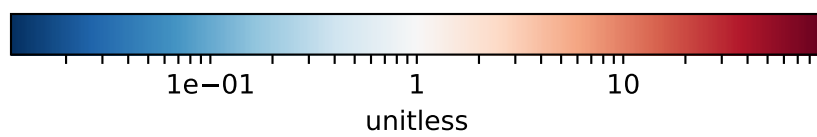
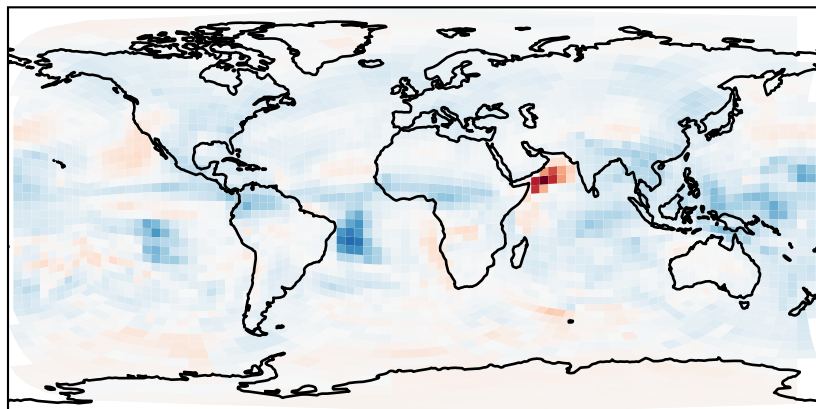
Difference  
Dev - Ref, Dynamic Range



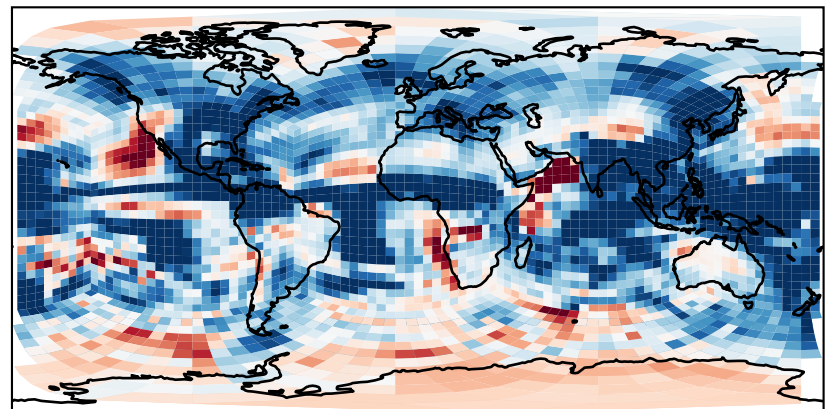
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

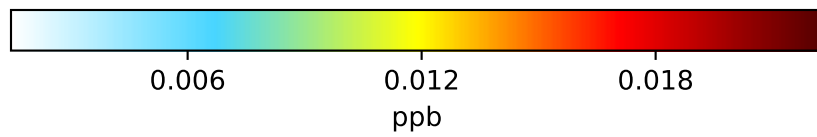
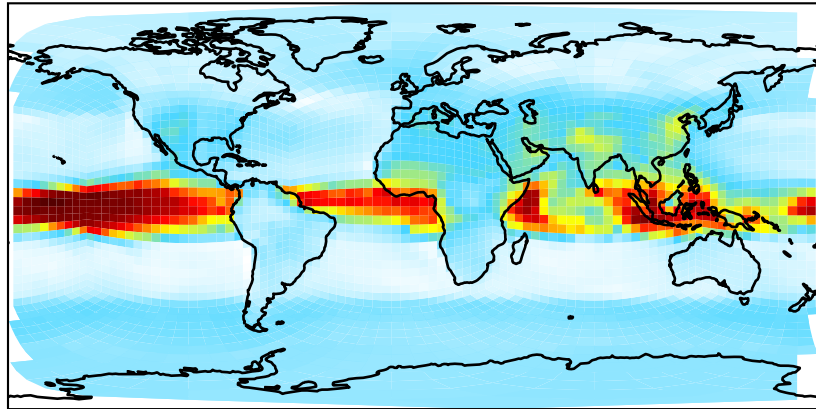


Ratio  
Dev/Ref, Fixed Range

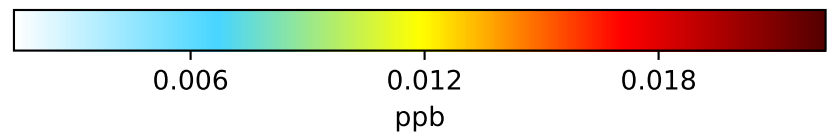
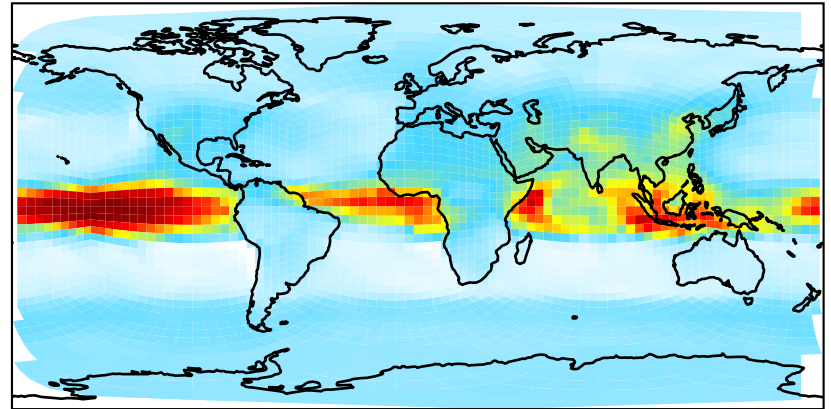


# SpeciesConcVV\_MENO3

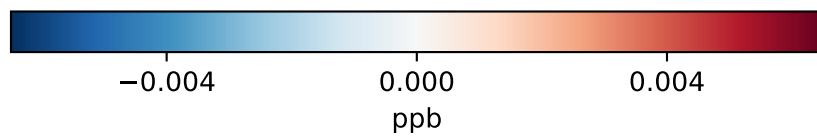
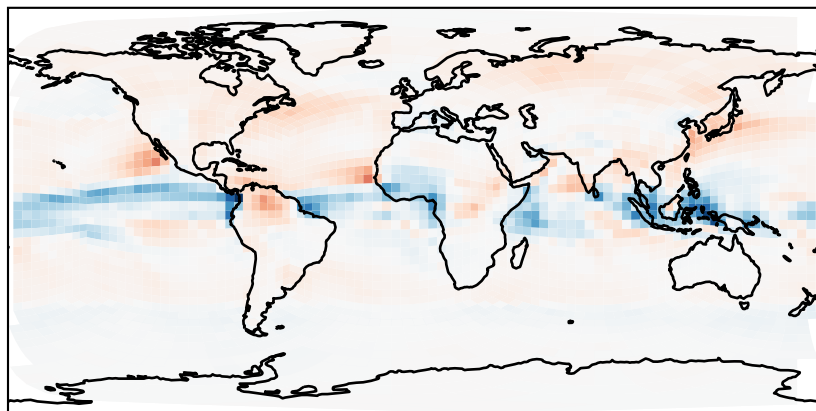
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



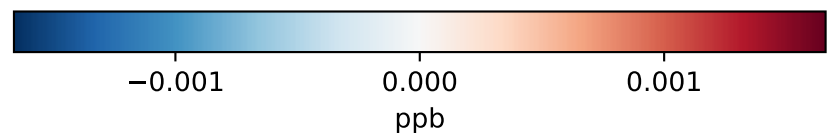
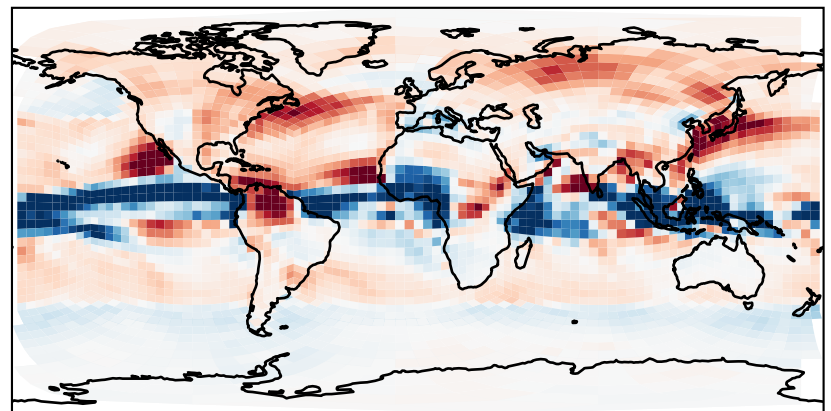
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



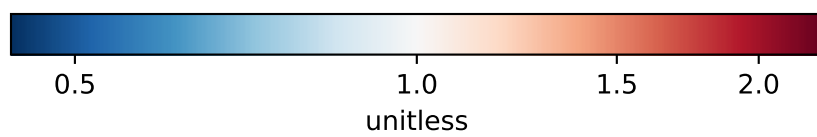
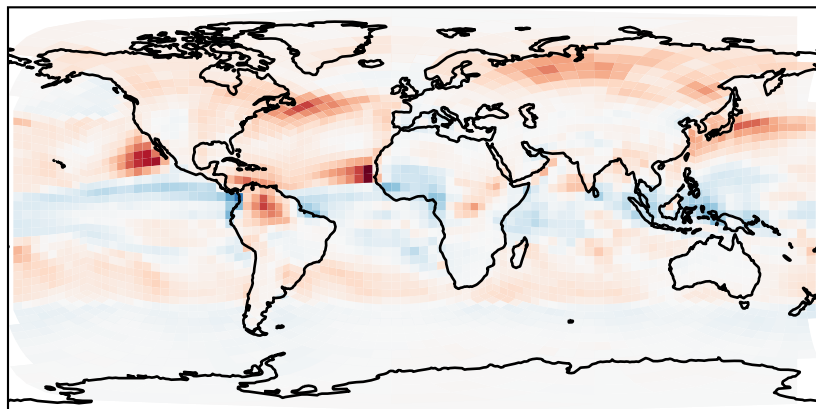
Difference  
Dev - Ref, Dynamic Range



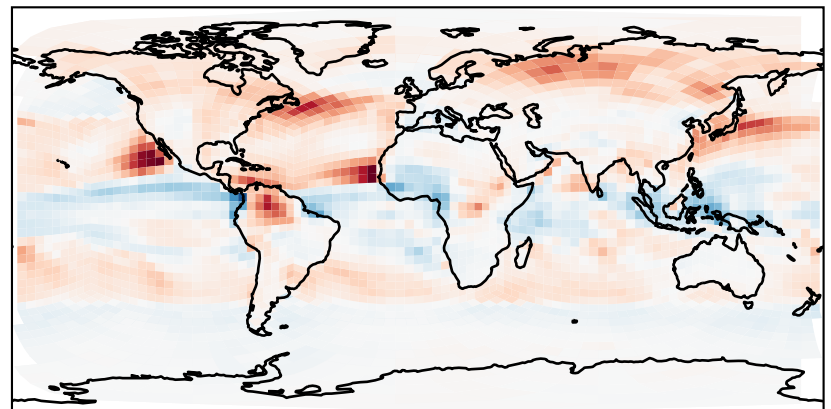
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



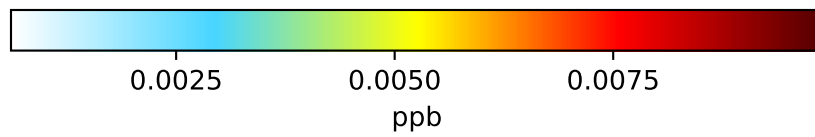
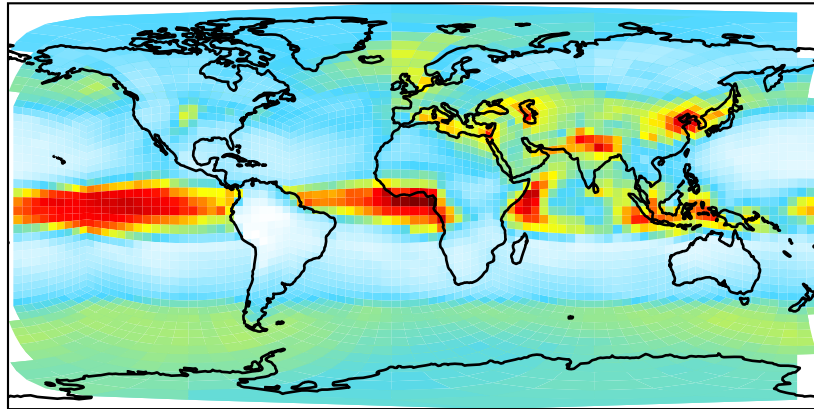
Ratio  
Dev/Ref, Fixed Range



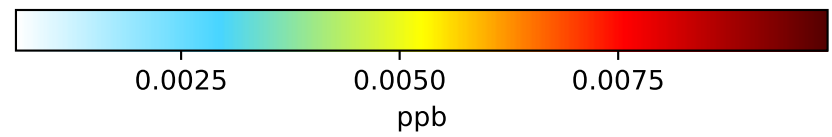
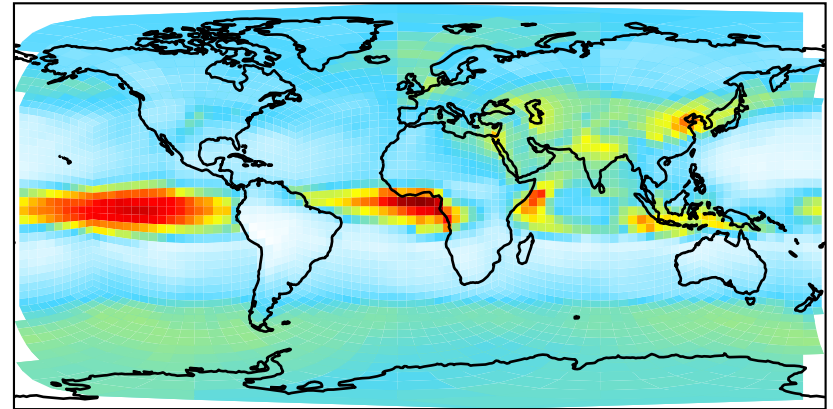


# SpeciesConcVV\_ETNO3

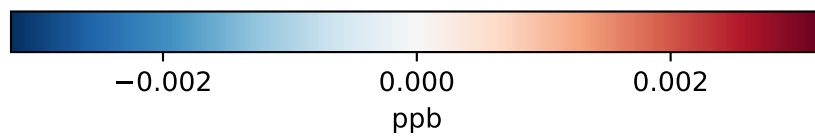
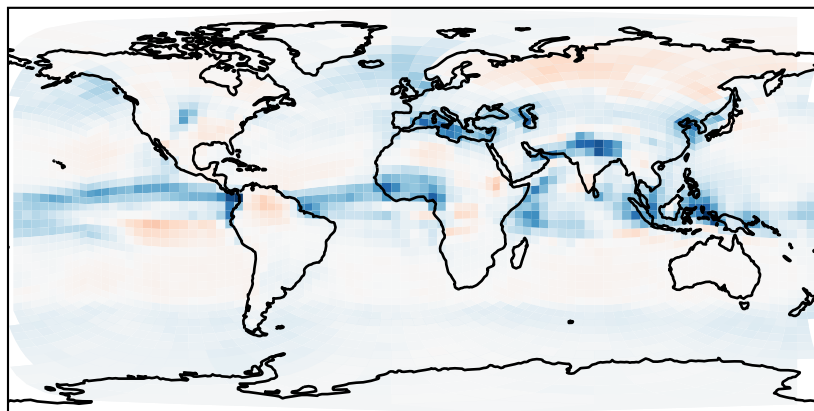
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



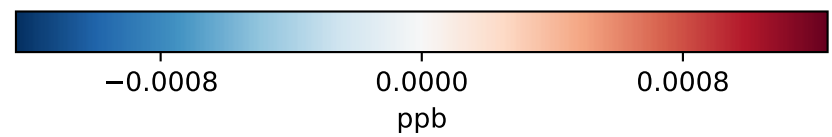
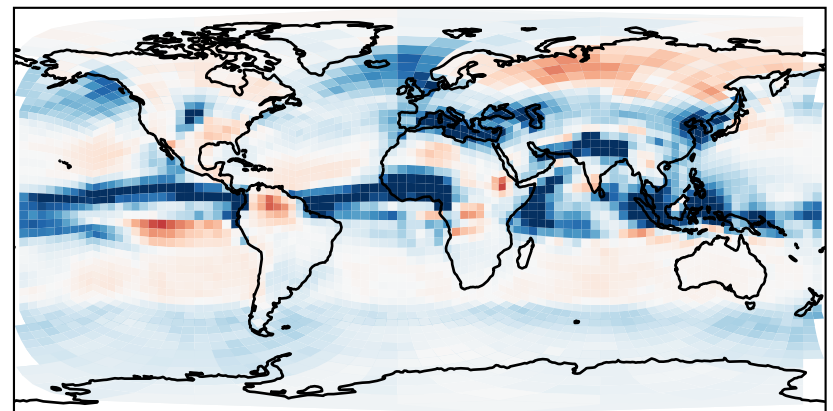
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



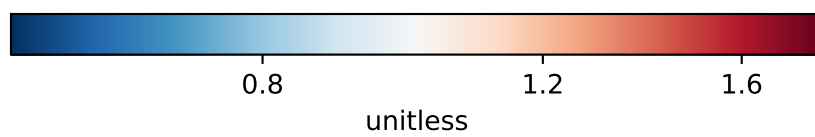
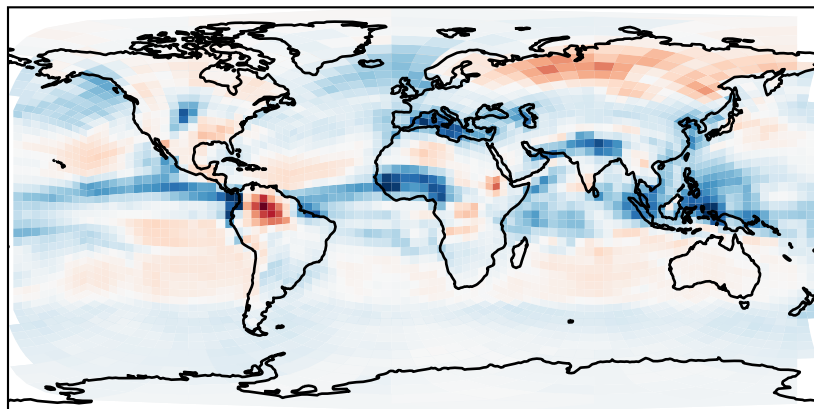
Difference  
Dev - Ref, Dynamic Range



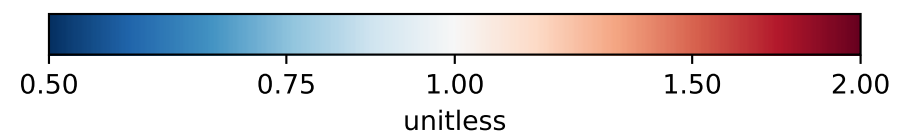
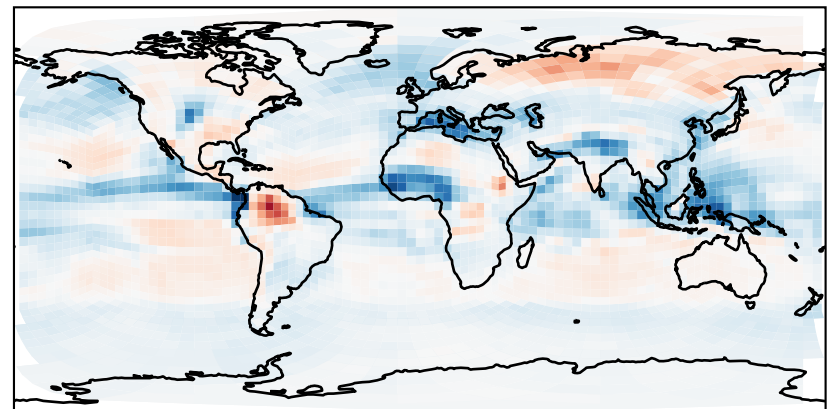
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

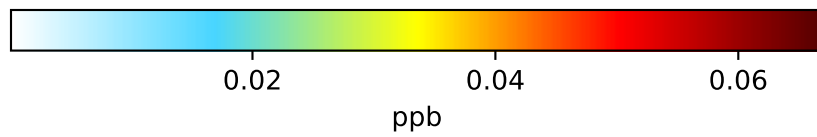
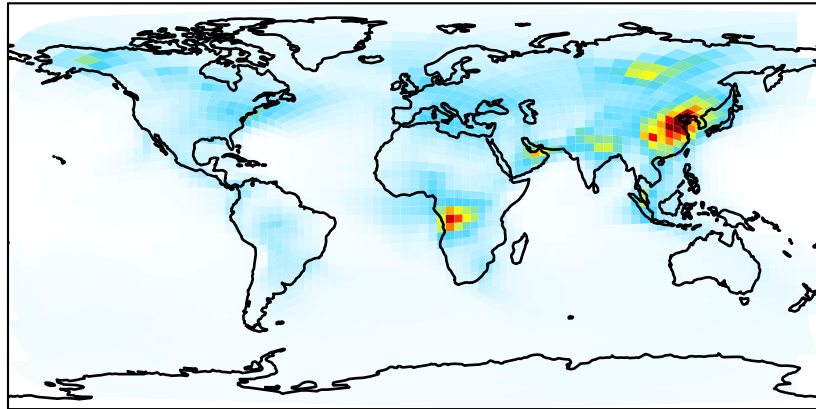


Ratio  
Dev/Ref, Fixed Range

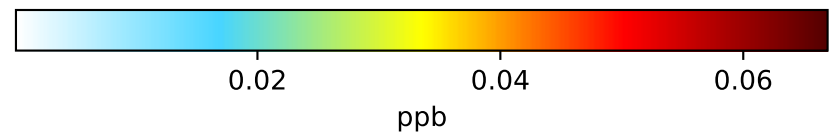
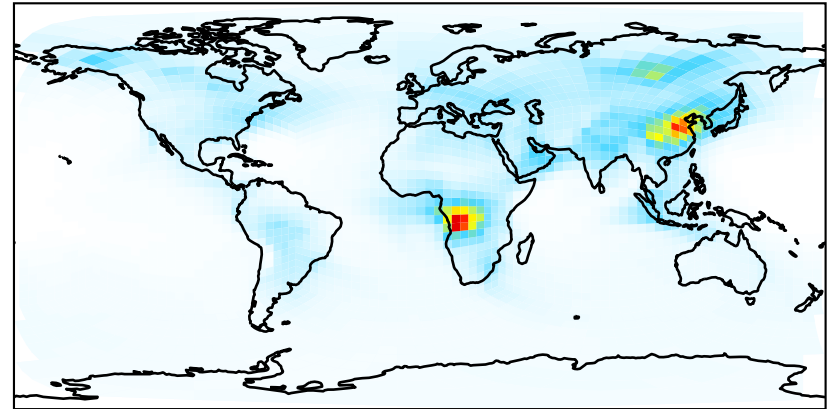


# SpeciesConcVV\_IPRNO3

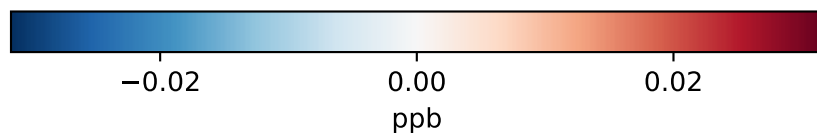
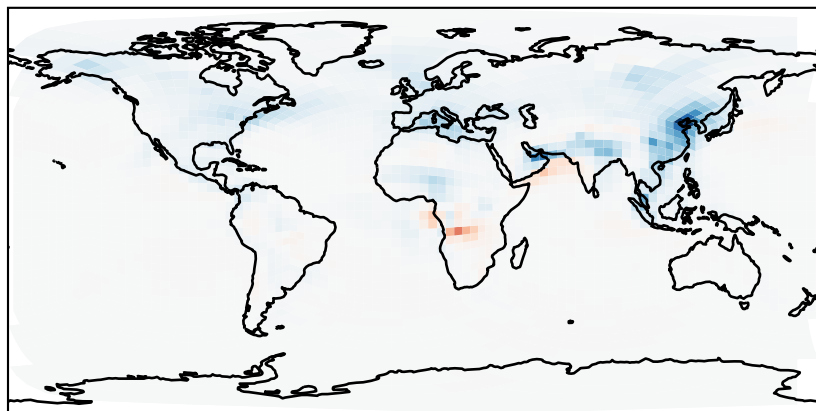
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



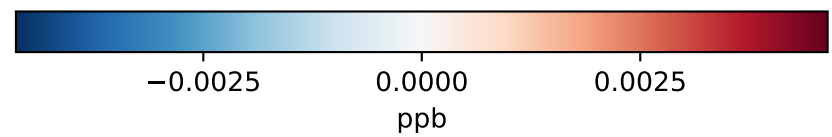
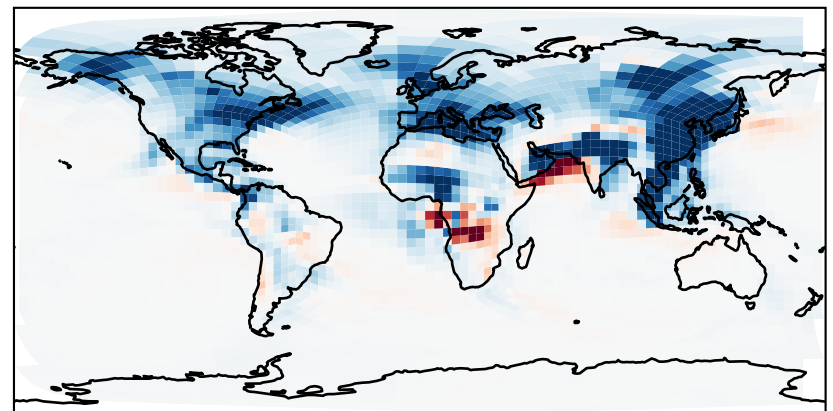
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



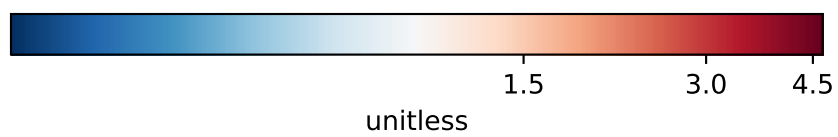
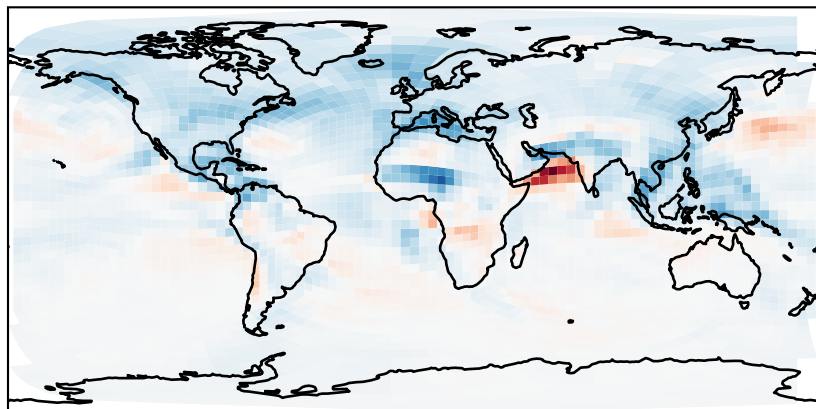
Difference  
Dev - Ref, Dynamic Range



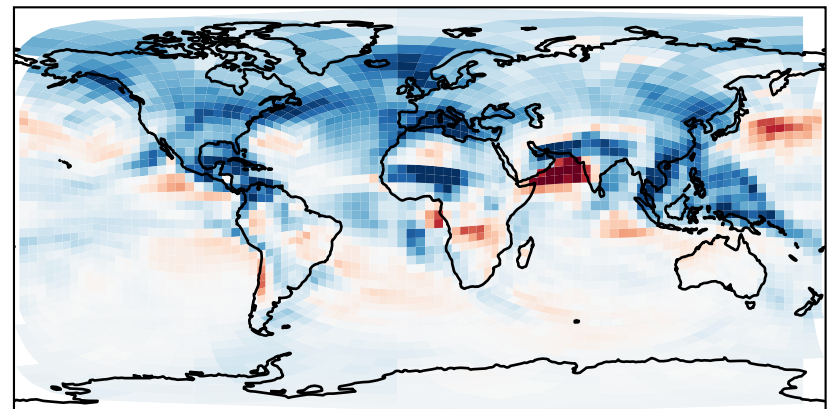
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

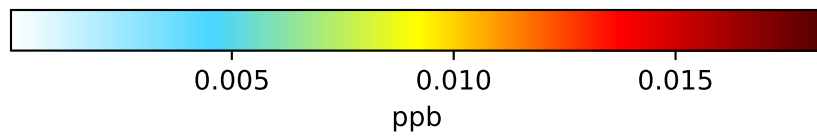
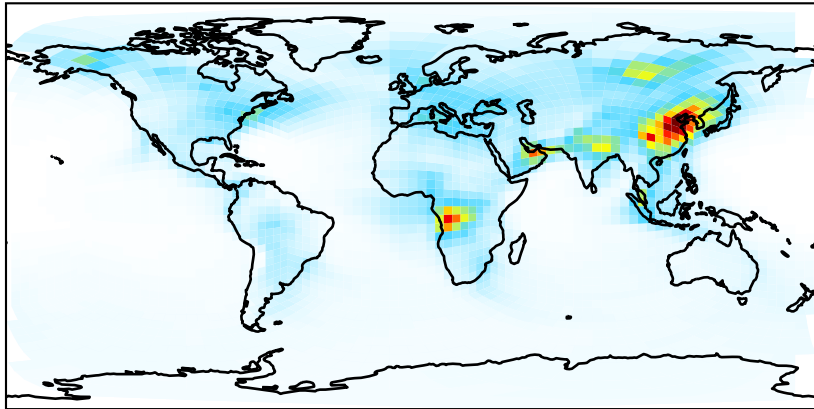


Ratio  
Dev/Ref, Fixed Range

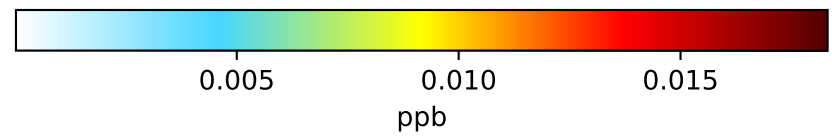
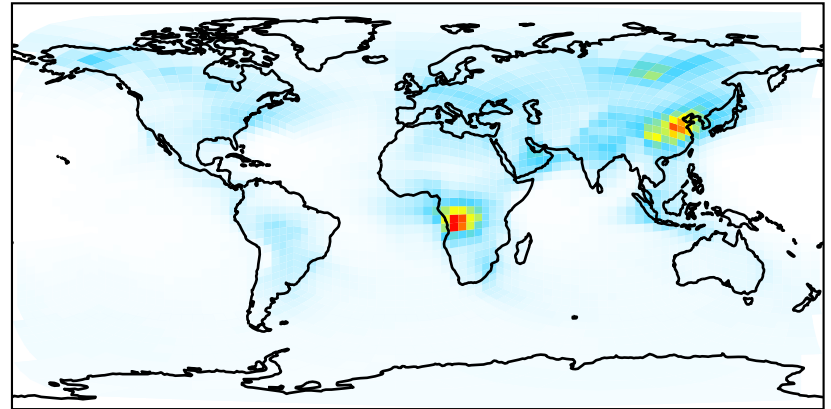


# SpeciesConcVW\_NPRNO3

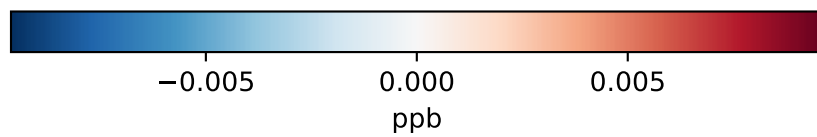
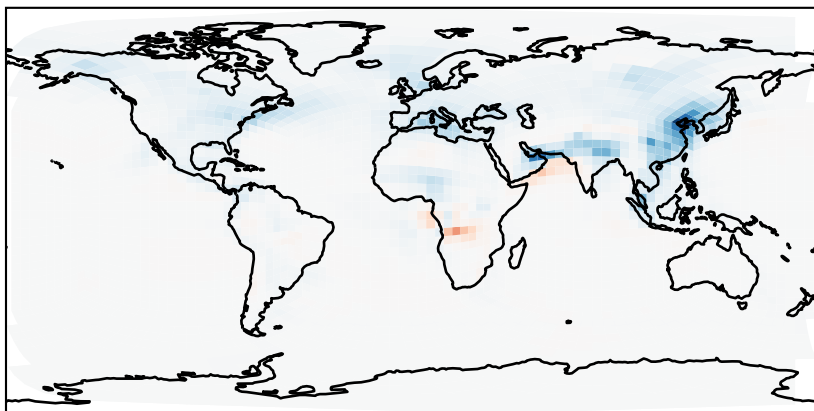
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



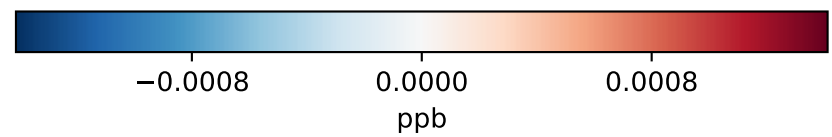
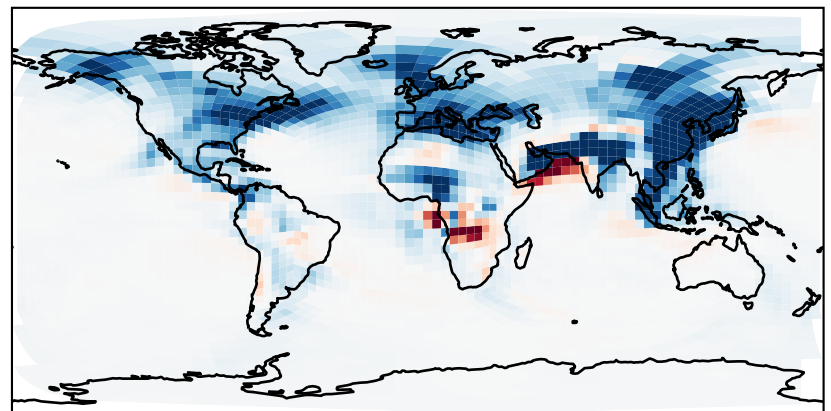
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



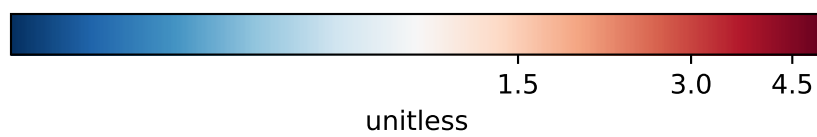
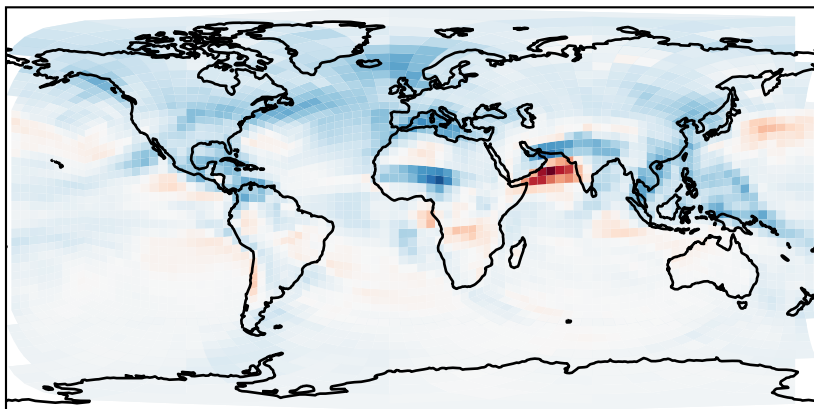
Difference  
Dev - Ref, Dynamic Range



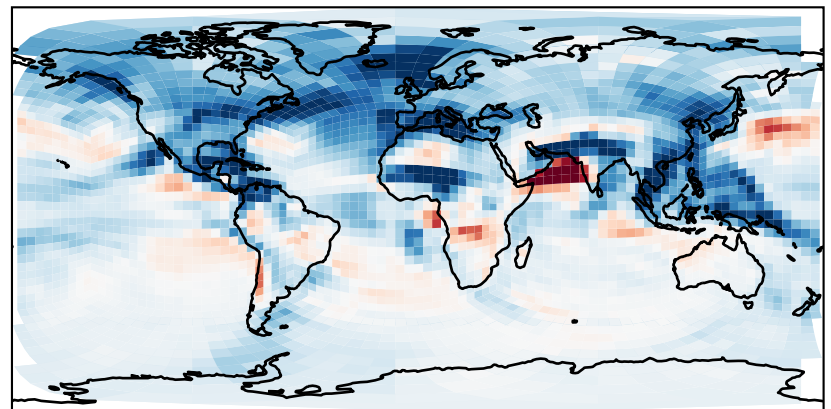
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



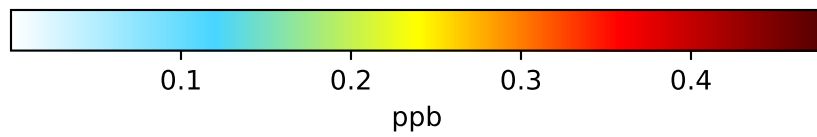
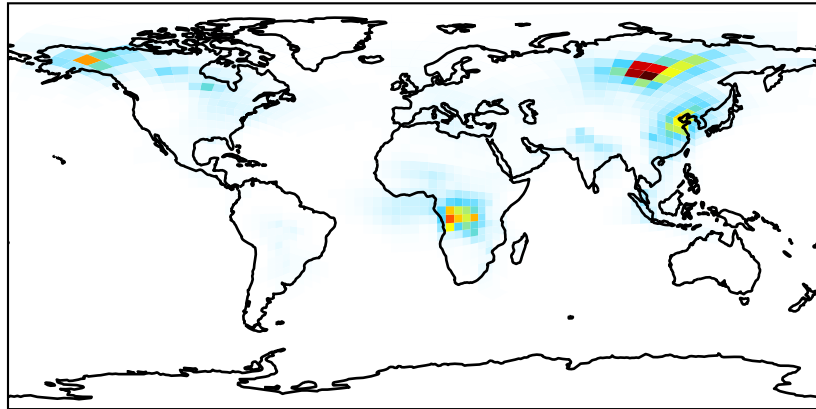
Ratio  
Dev/Ref, Fixed Range



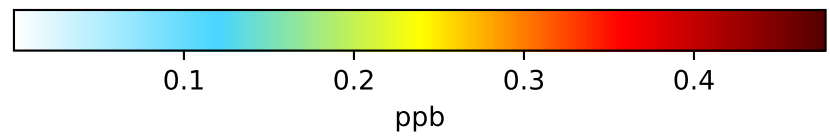
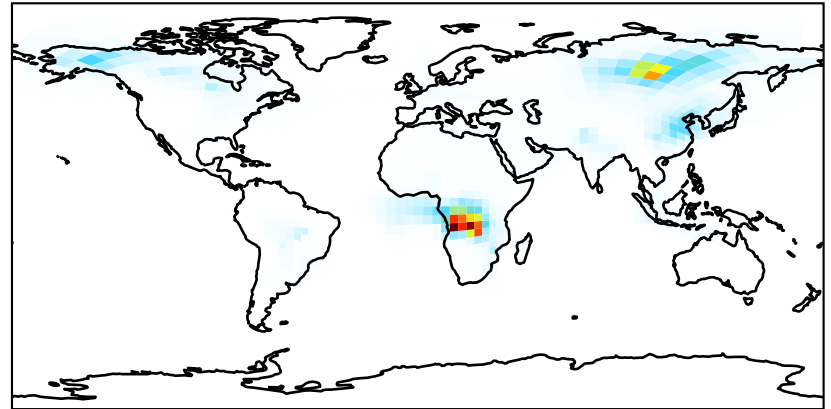


# SpeciesConcVW\_AONITA

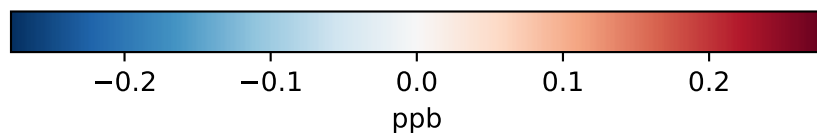
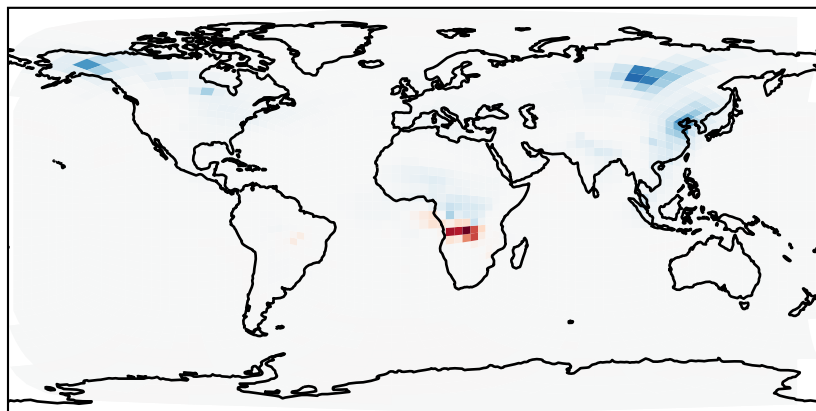
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



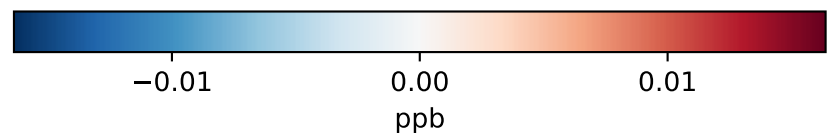
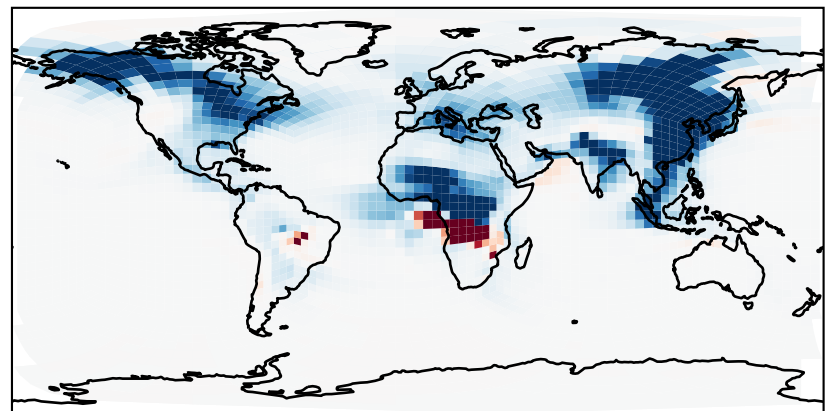
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



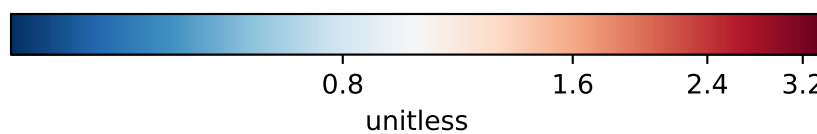
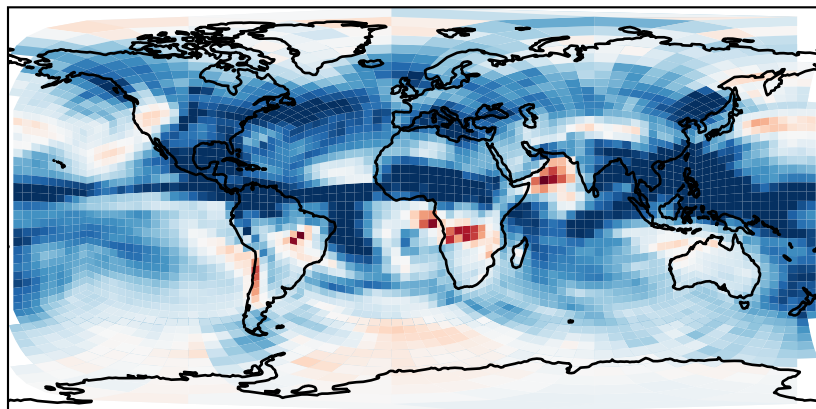
Difference  
Dev - Ref, Dynamic Range



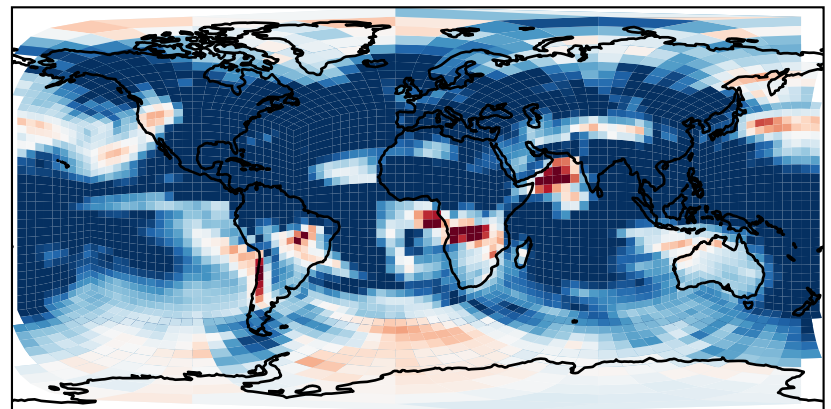
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

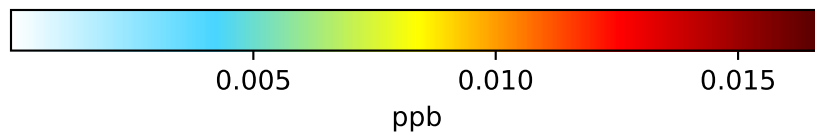
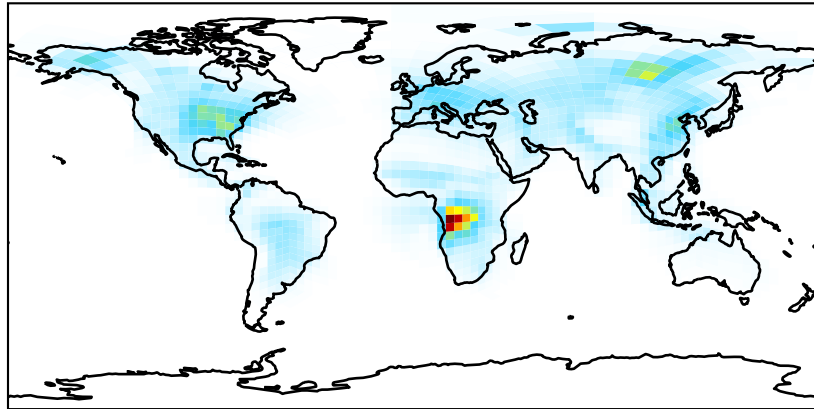


Ratio  
Dev/Ref, Fixed Range

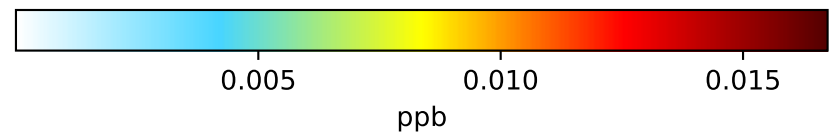
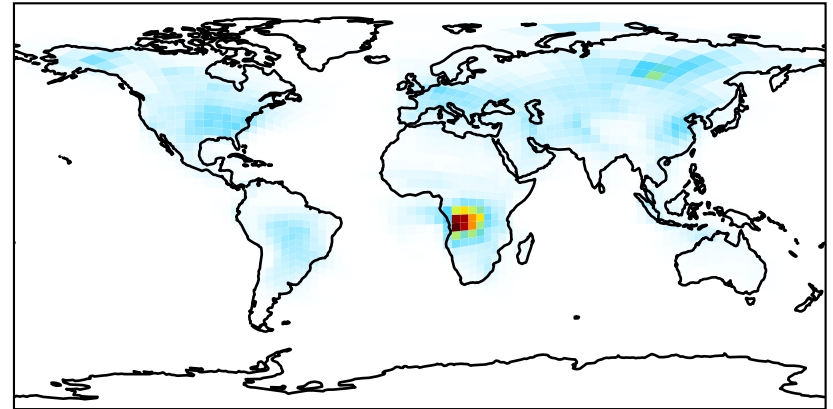


# SpeciesConcVW\_ETHN

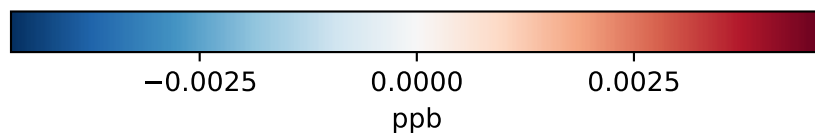
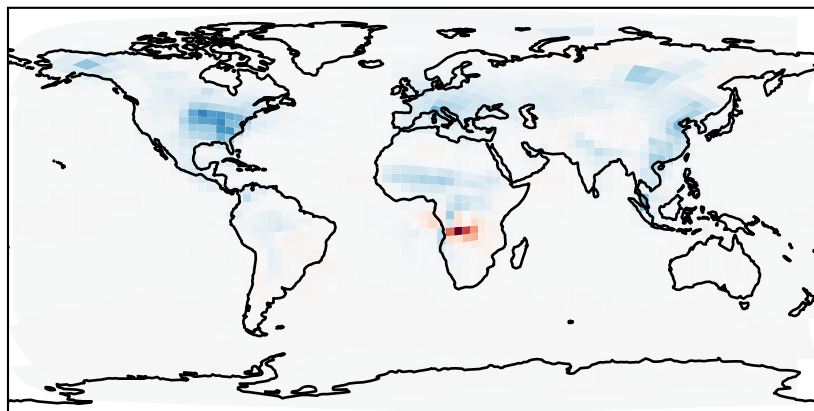
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



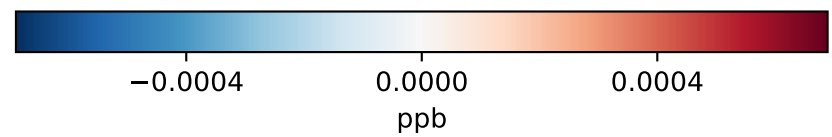
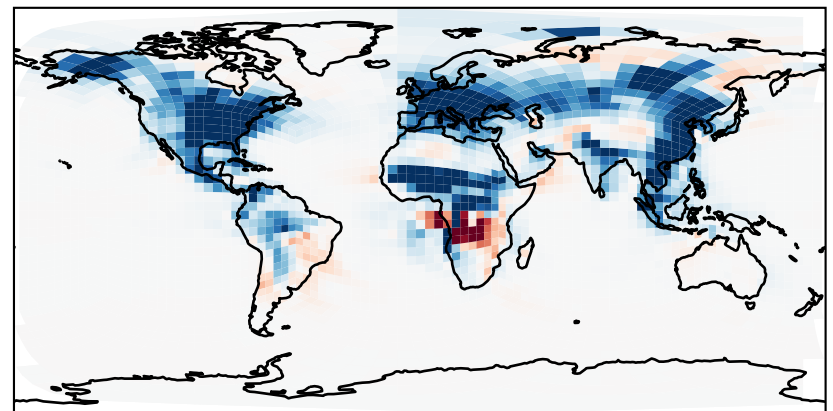
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



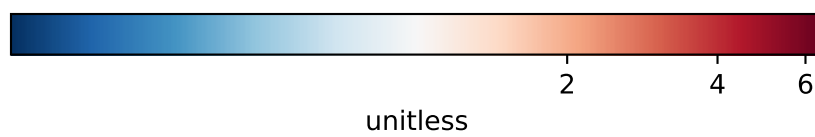
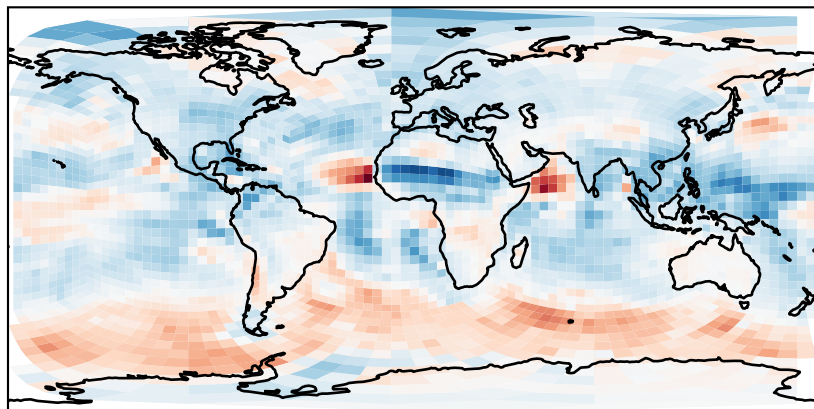
Difference  
Dev - Ref, Dynamic Range



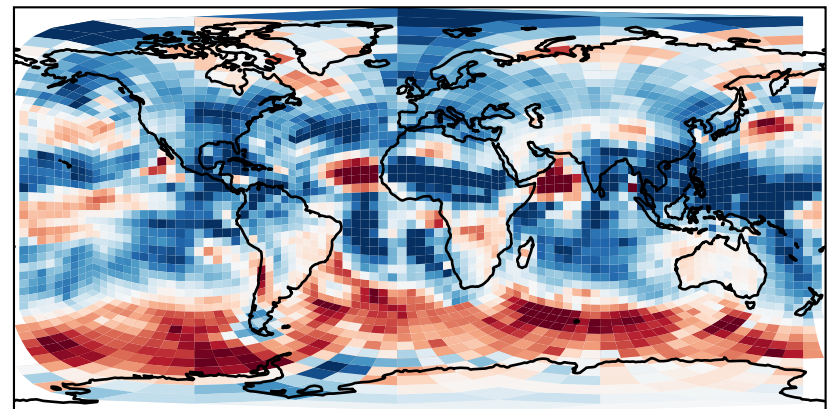
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

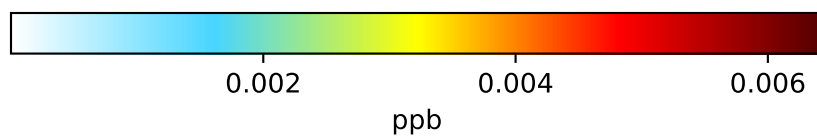
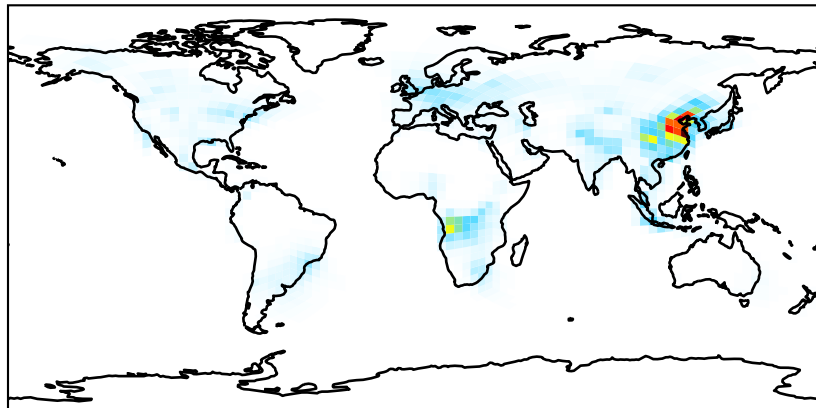


Ratio  
Dev/Ref, Fixed Range

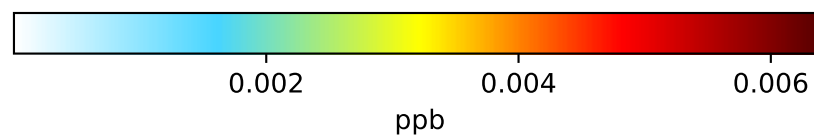
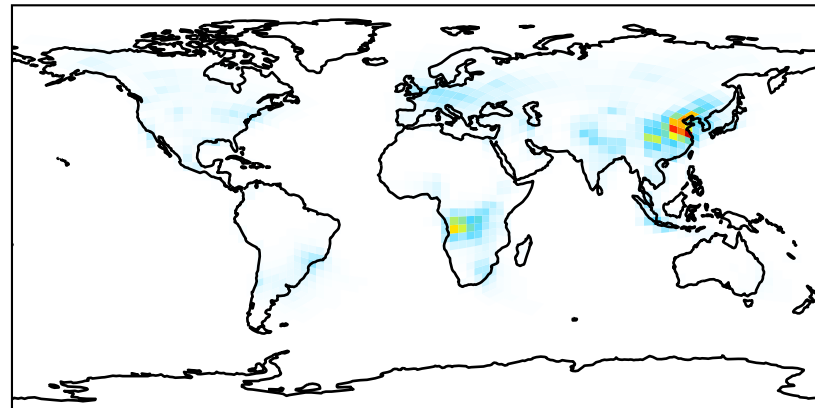


# SpeciesConcVV\_BZPAN

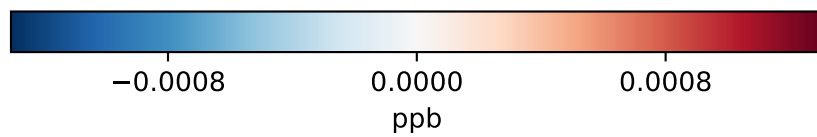
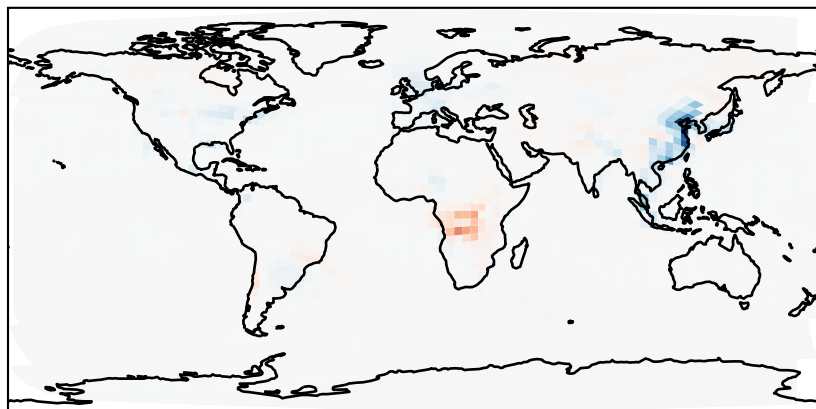
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



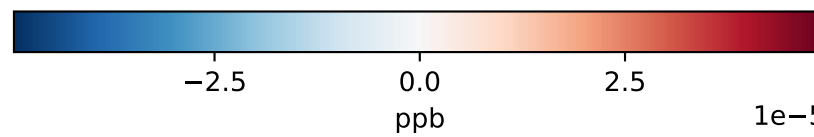
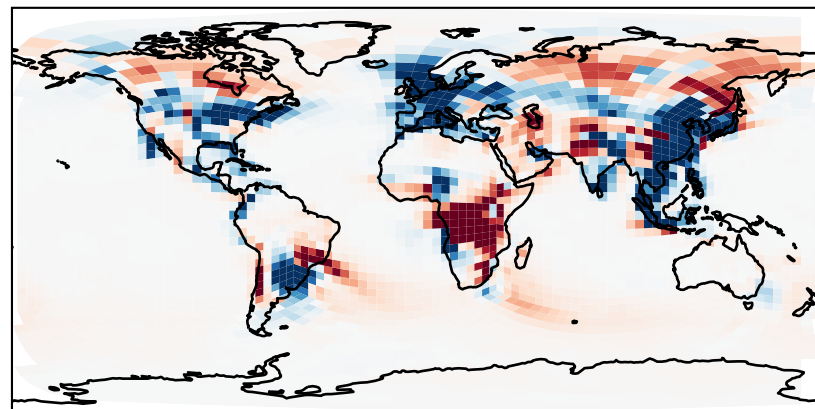
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



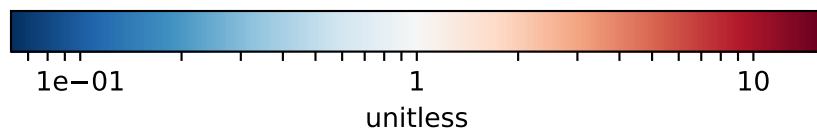
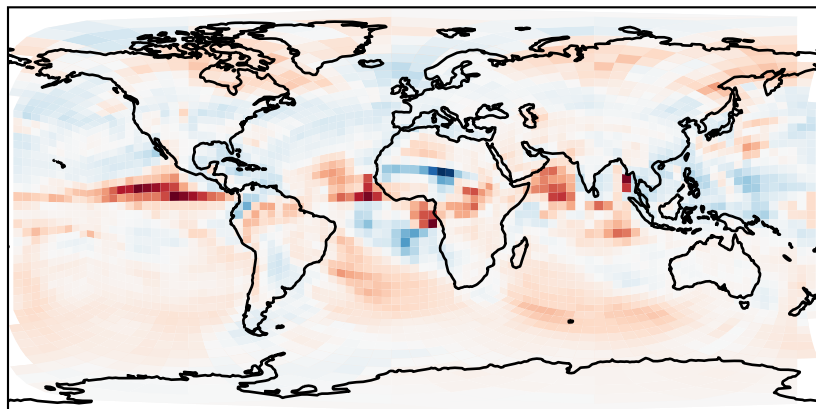
Difference  
Dev - Ref, Dynamic Range



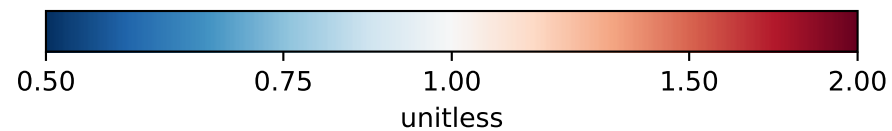
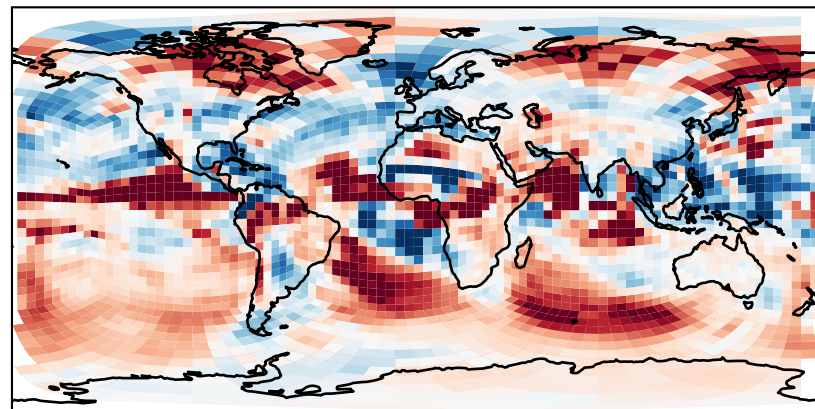
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



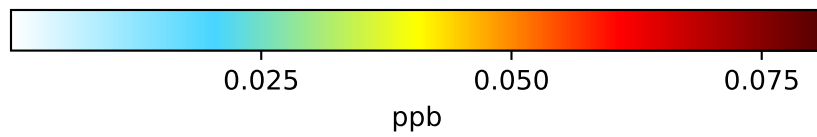
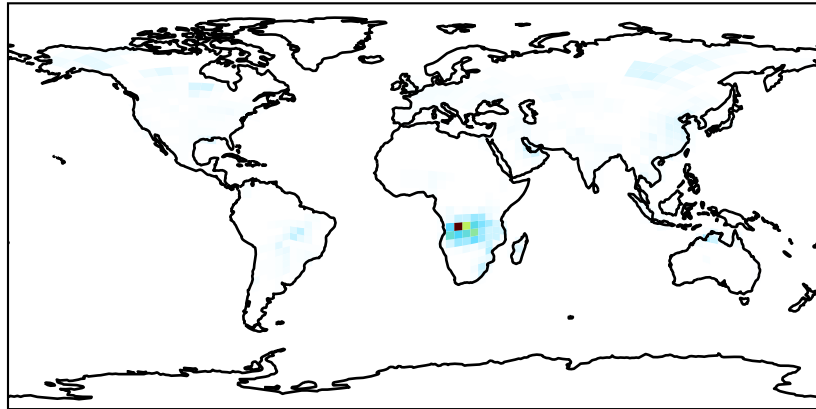
Ratio  
Dev/Ref, Fixed Range



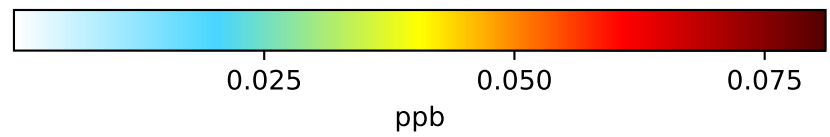
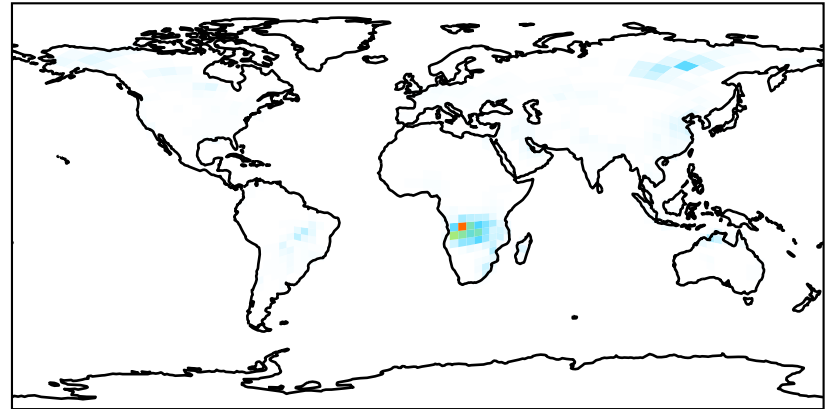


# SpeciesConcVV\_NPHEN

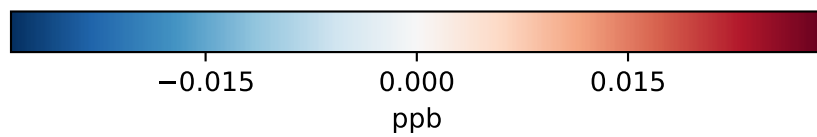
GCHP\_14.2.0\_MERRA2 (Ref)  
c24



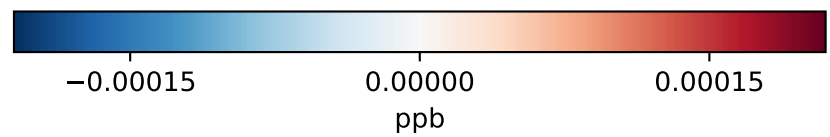
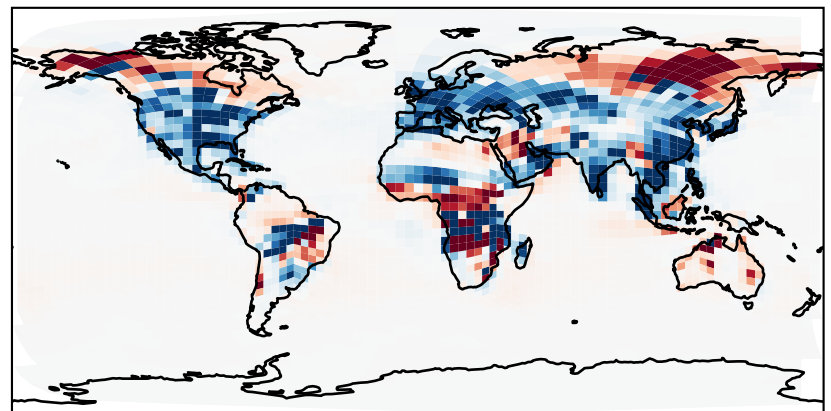
GCHP\_14.2.0\_GEOS-IT (Dev)  
c24



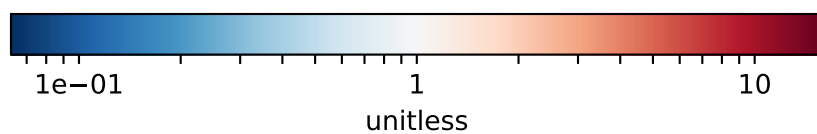
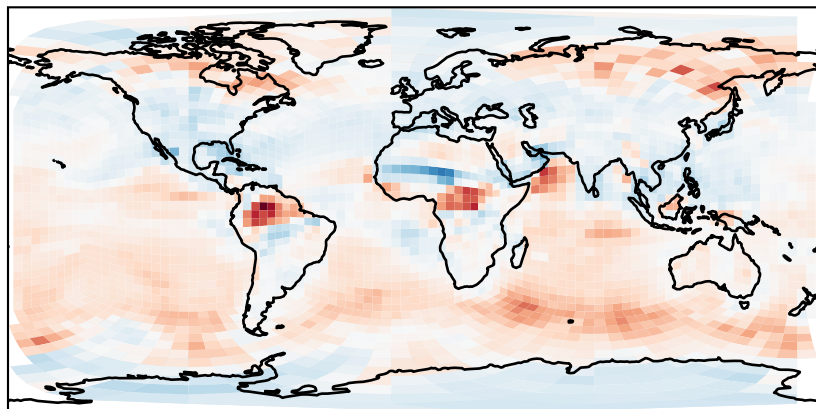
Difference  
Dev - Ref, Dynamic Range



Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



Ratio  
Dev/Ref, Fixed Range

