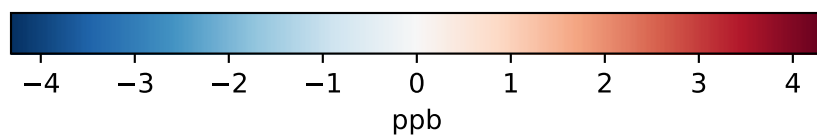
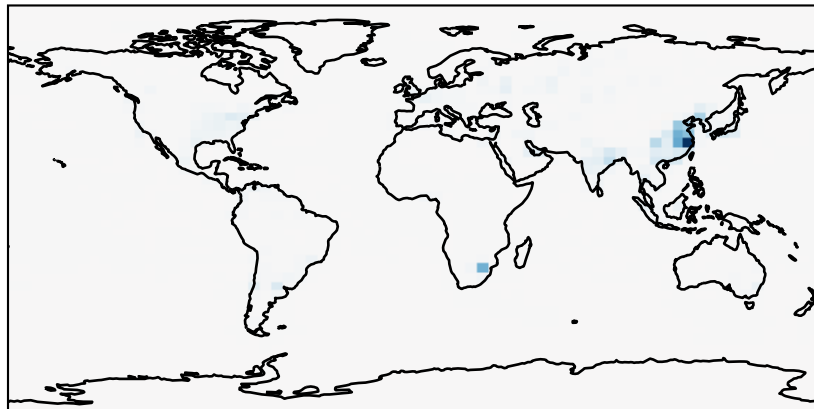
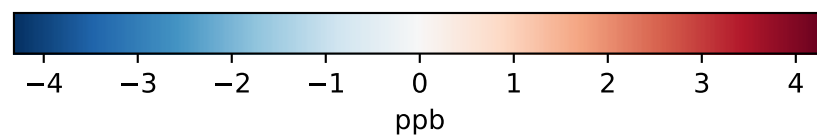


SpeciesConc_NOy

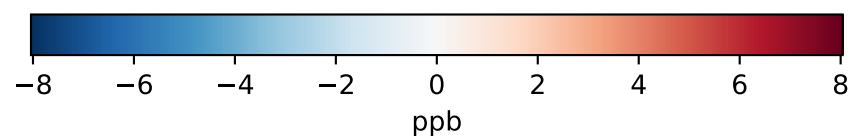
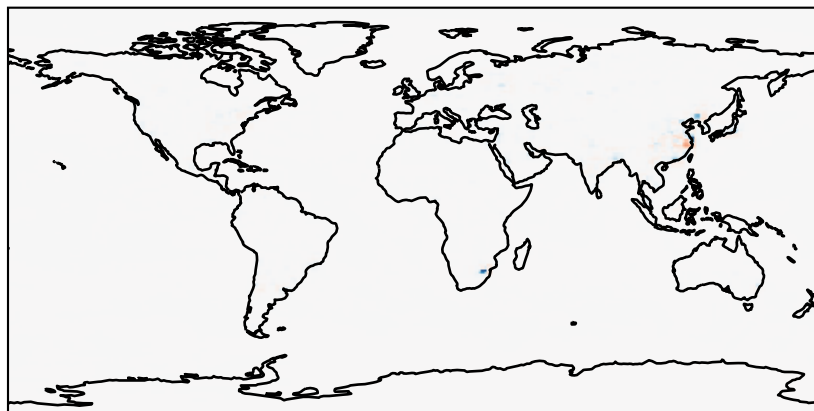
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



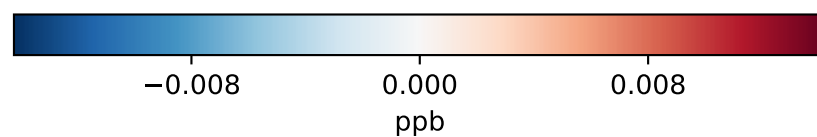
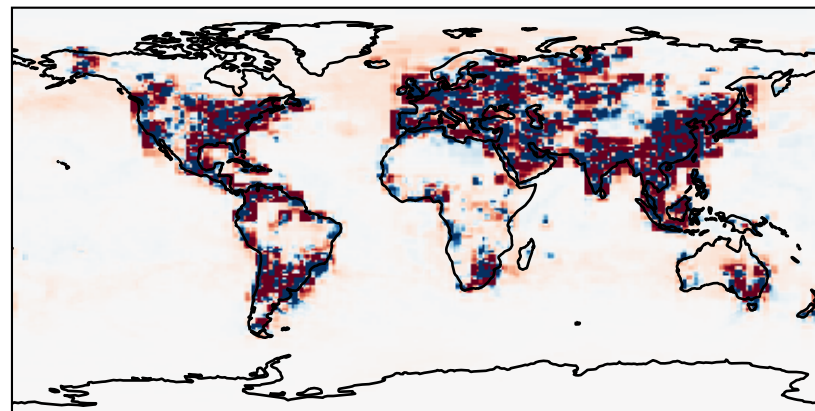
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



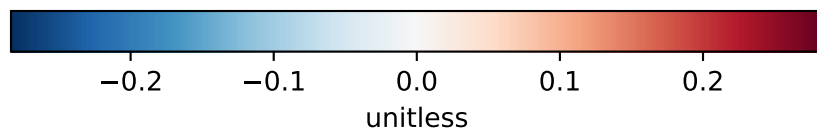
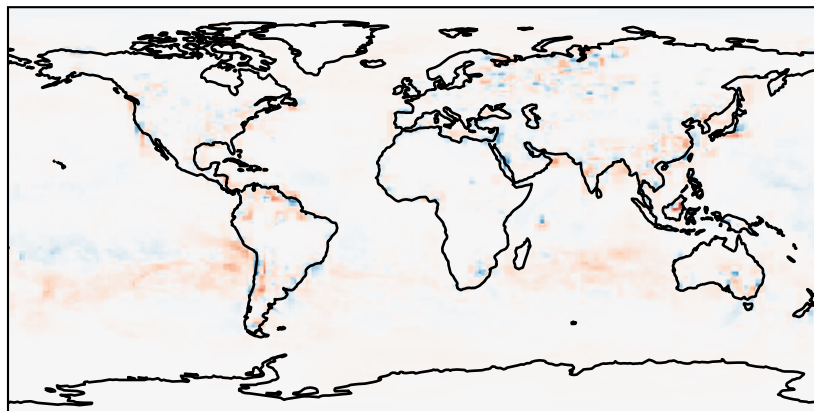
Difference (1x1.25)
Dev - Ref, Dynamic Range



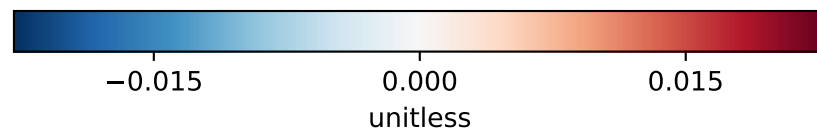
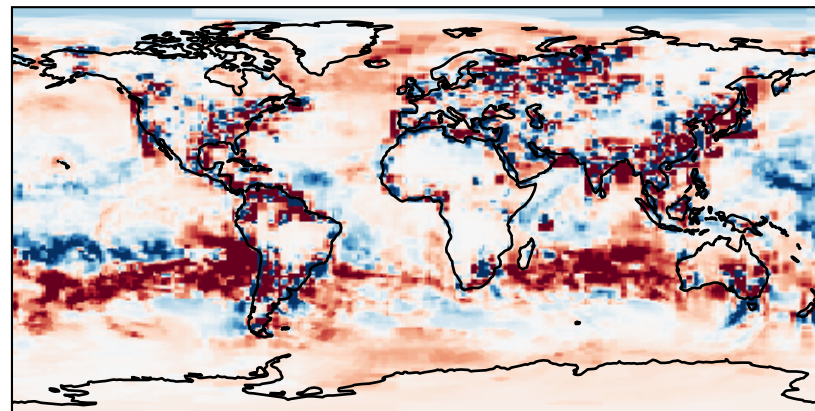
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

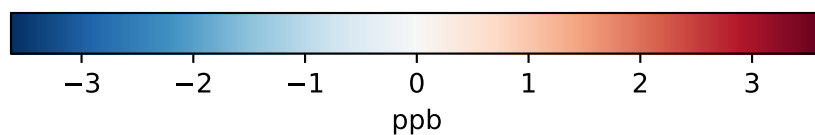
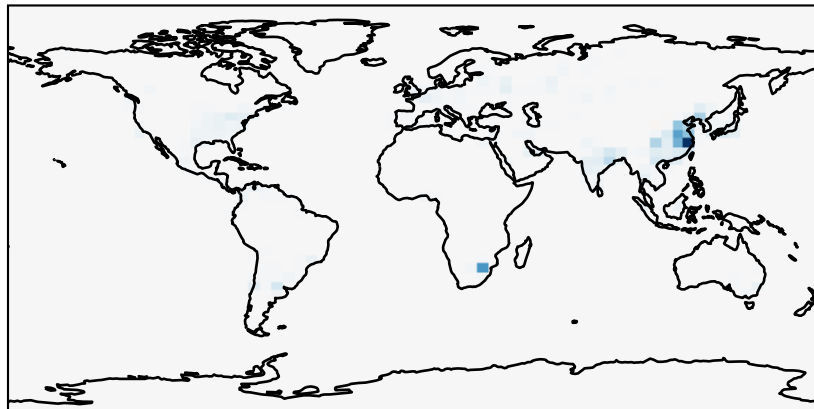


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

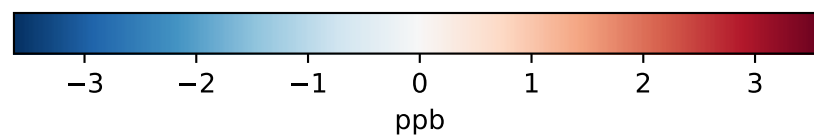


SpeciesConc_NOx

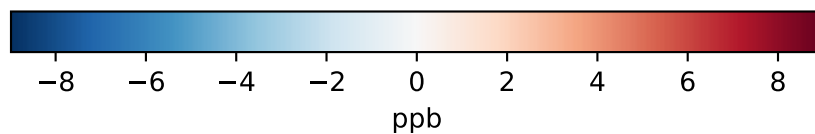
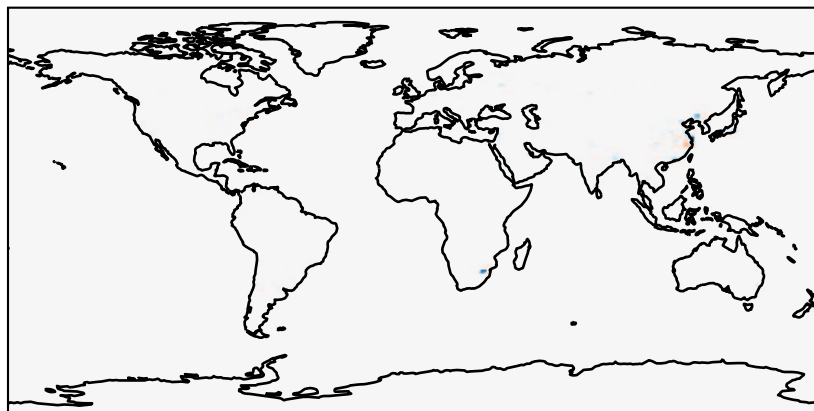
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



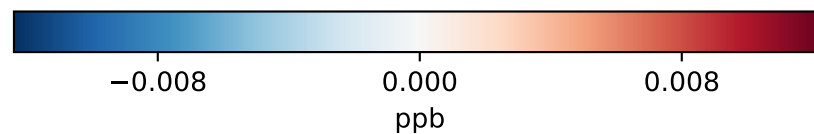
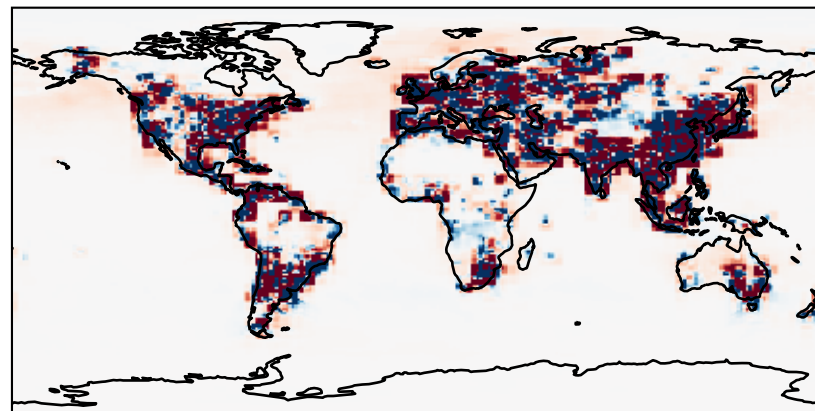
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



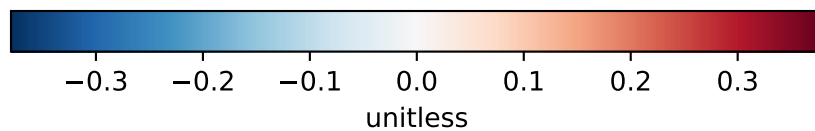
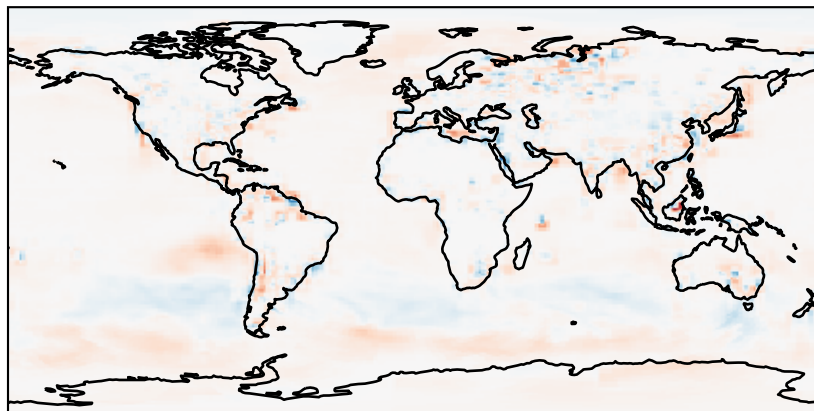
Difference (1x1.25)
Dev - Ref, Dynamic Range



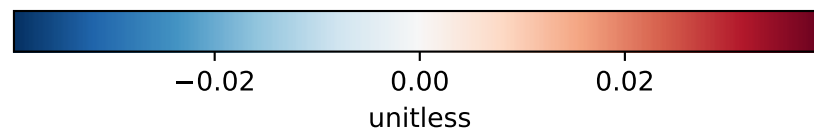
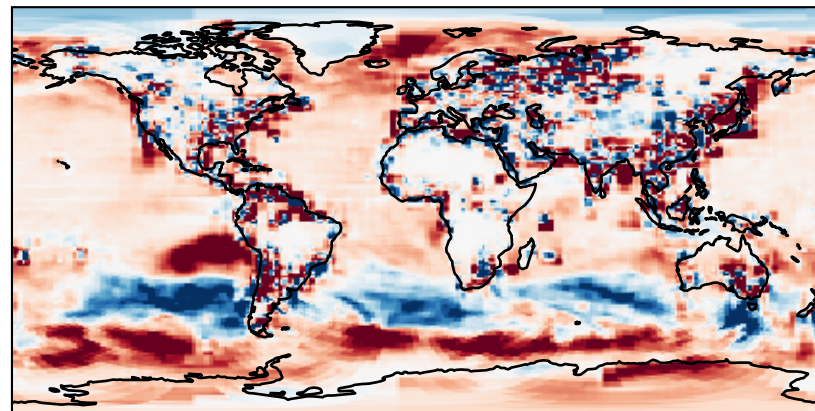
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

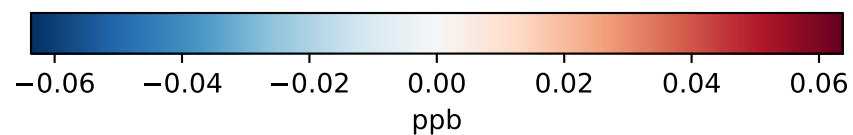


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

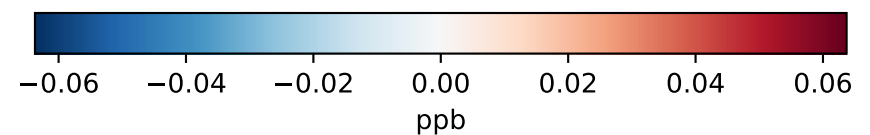


SpeciesConc_HNO2

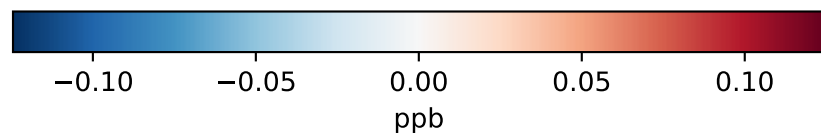
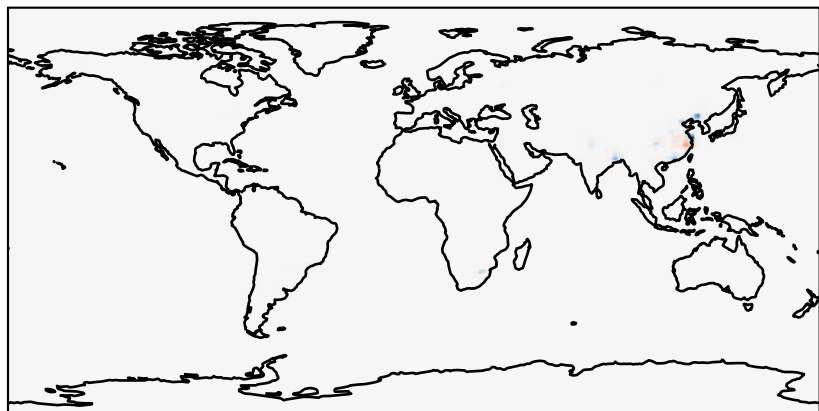
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



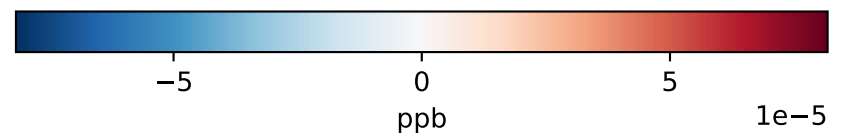
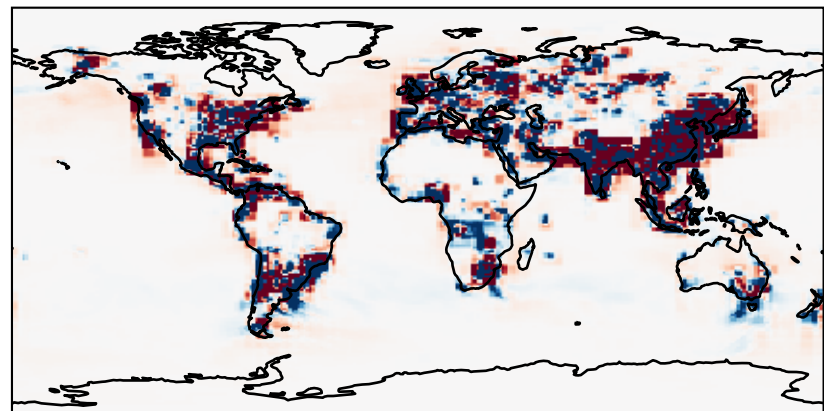
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



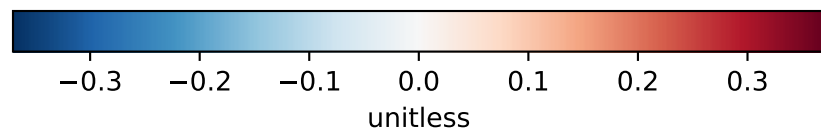
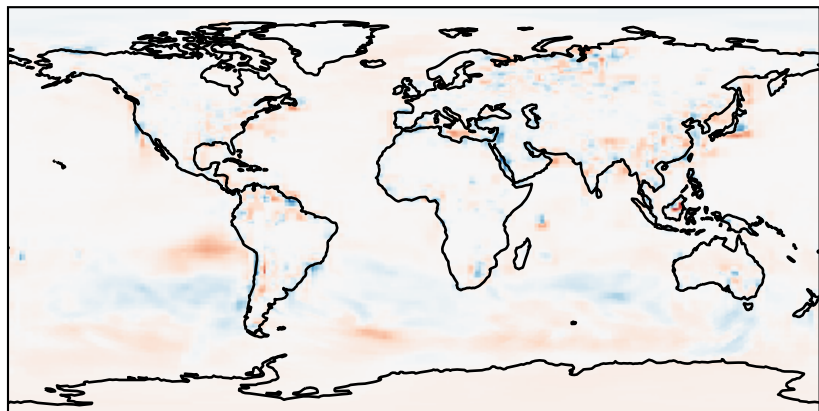
Difference (1x1.25)
Dev - Ref, Dynamic Range



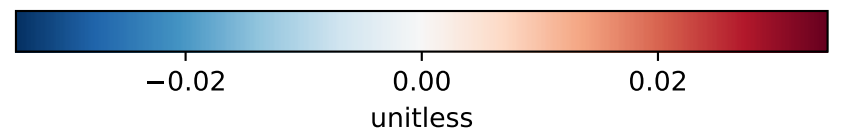
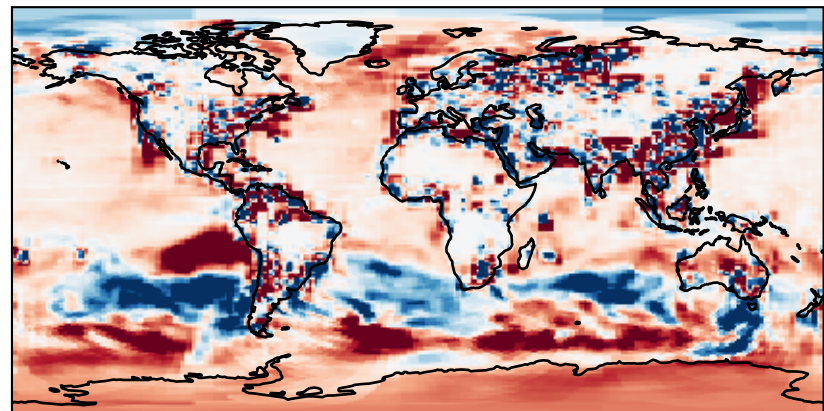
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

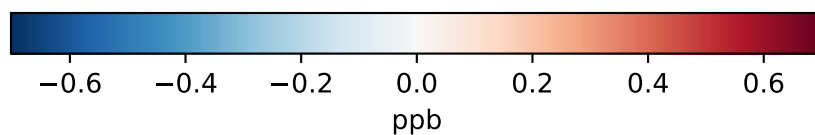
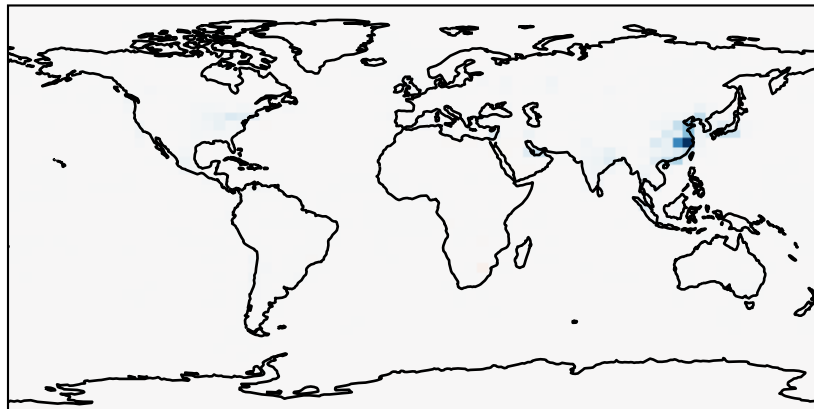


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

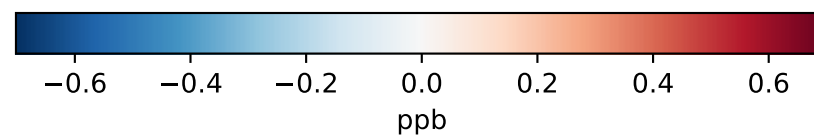
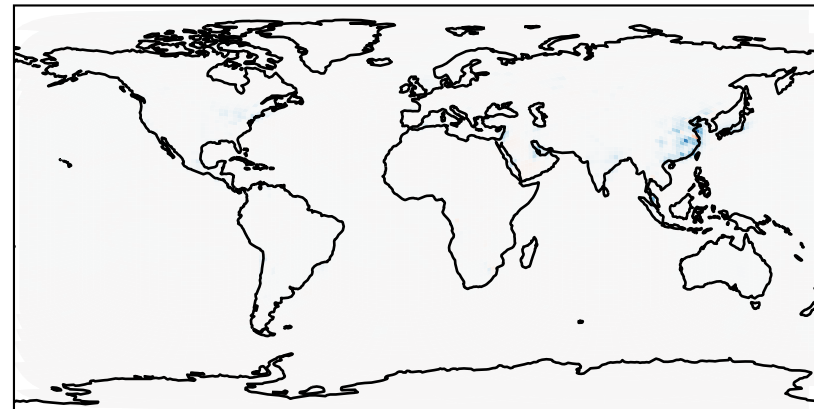


SpeciesConc_HNO3

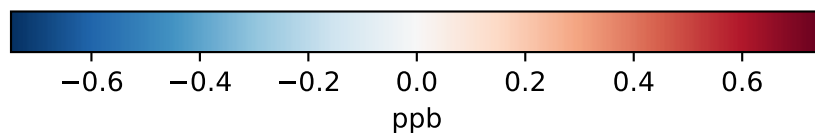
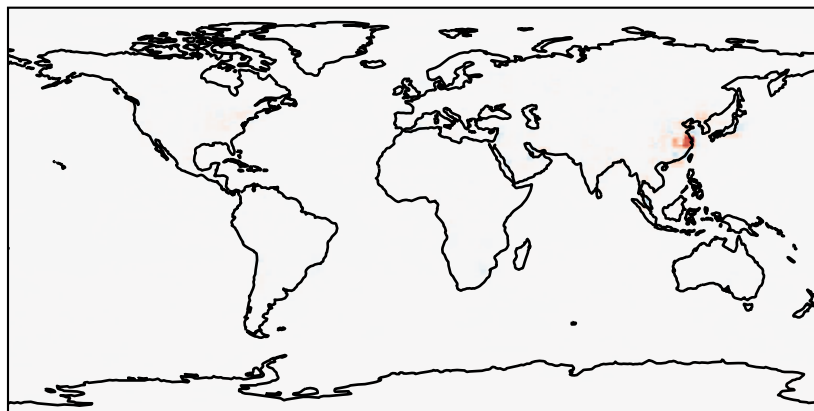
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



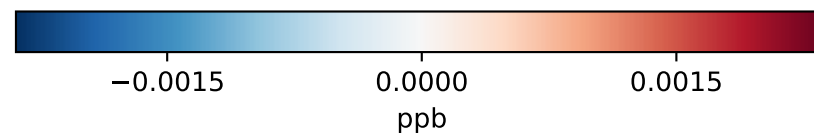
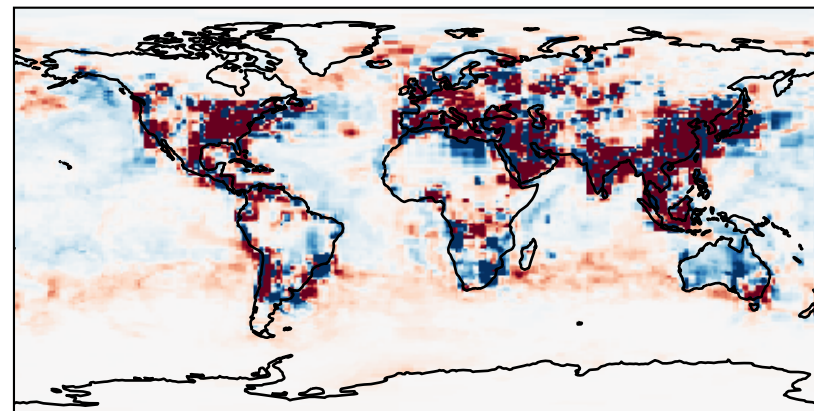
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



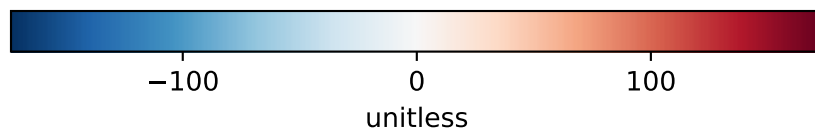
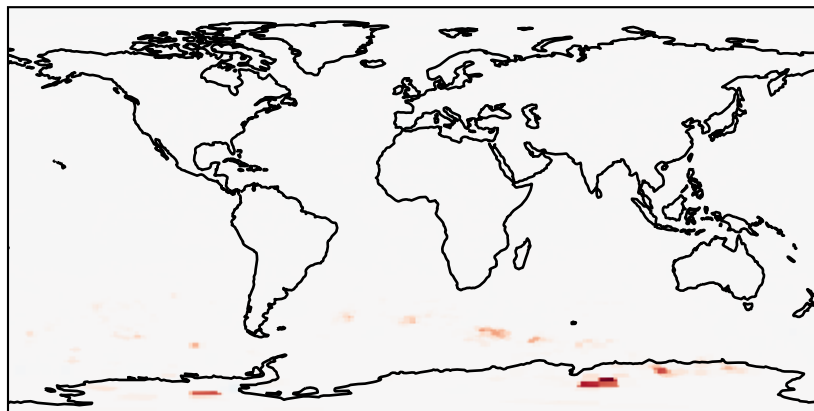
Difference (1x1.25)
Dev - Ref, Dynamic Range



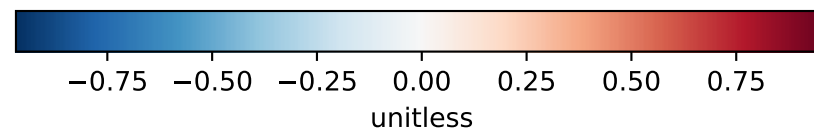
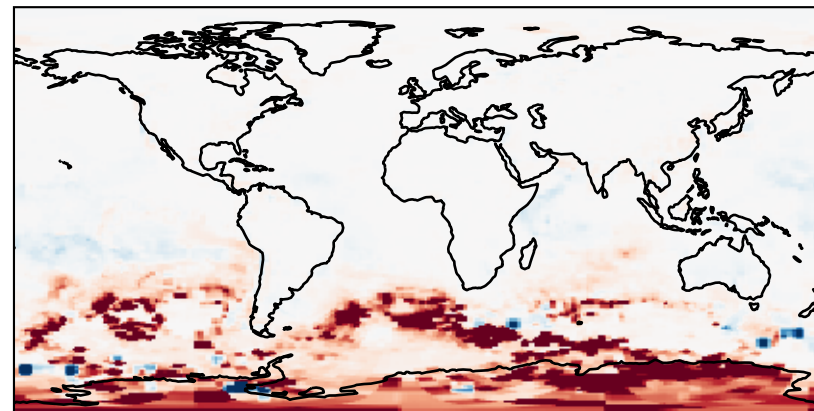
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

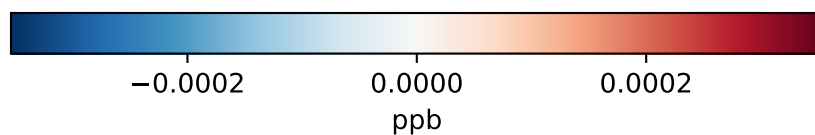
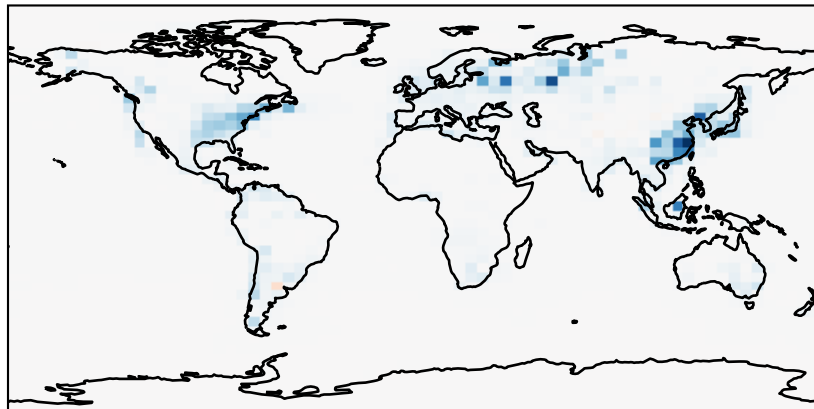


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

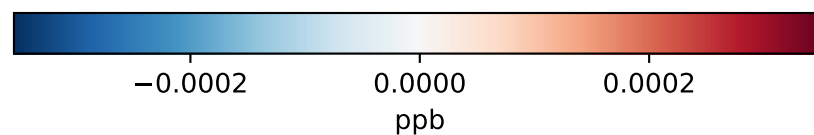
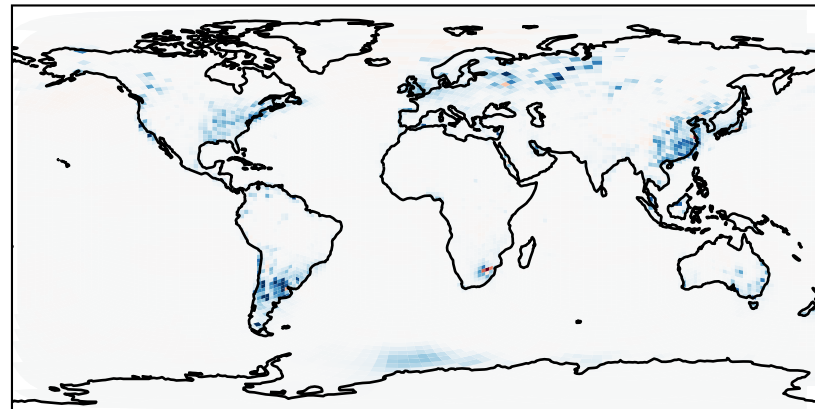


SpeciesConc_HNO4

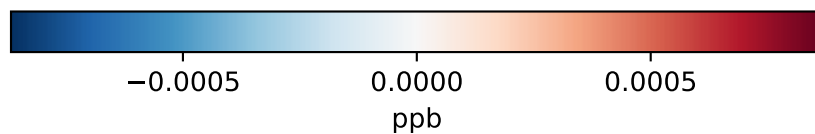
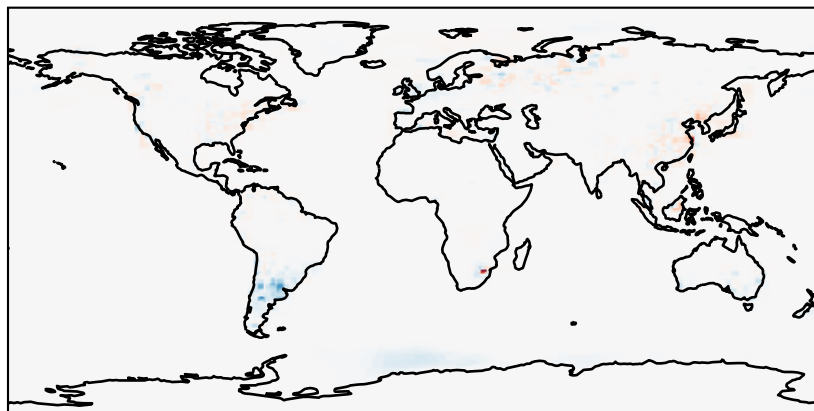
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



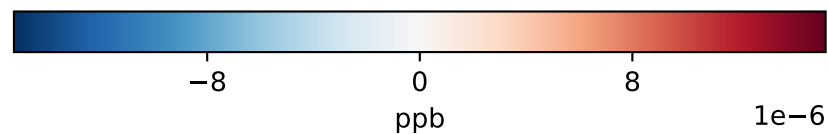
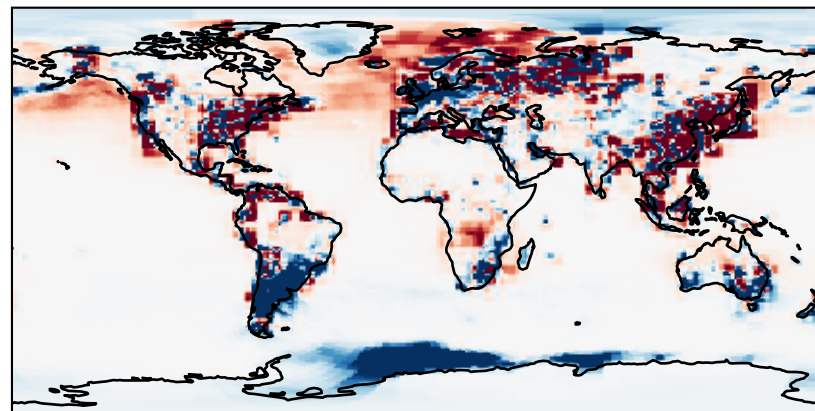
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



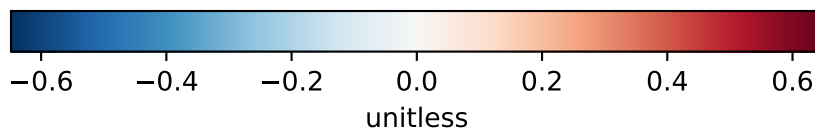
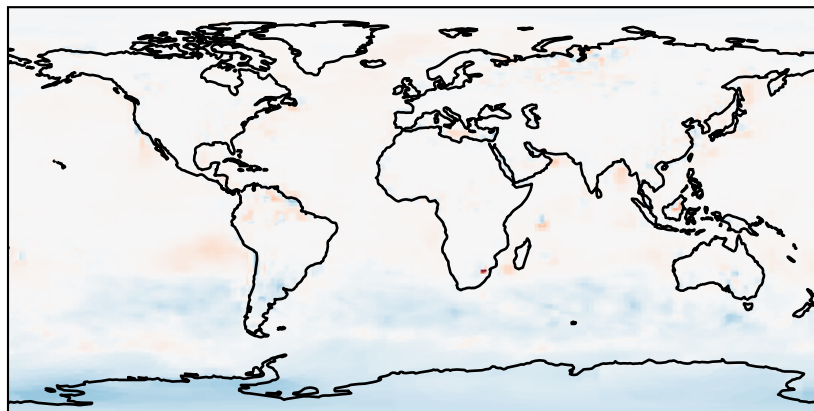
Difference (1x1.25)
Dev - Ref, Dynamic Range



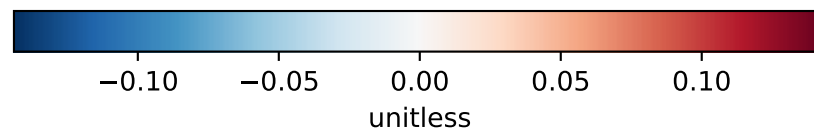
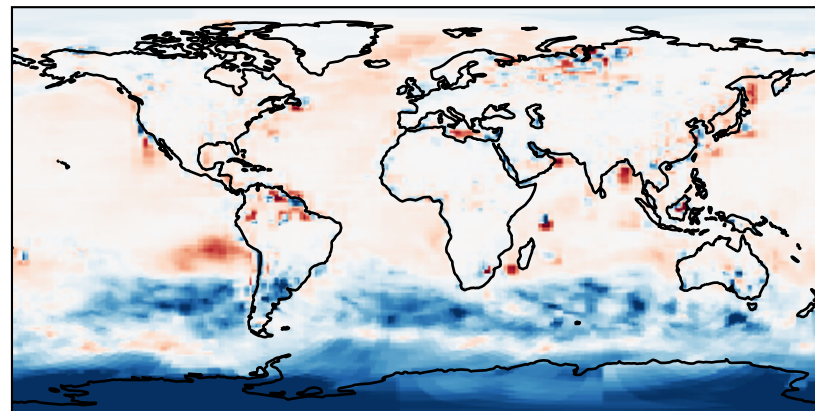
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

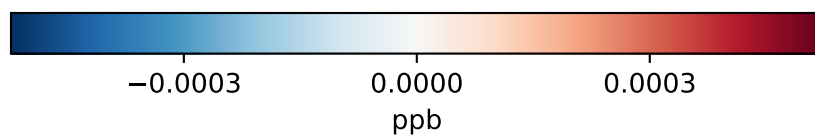
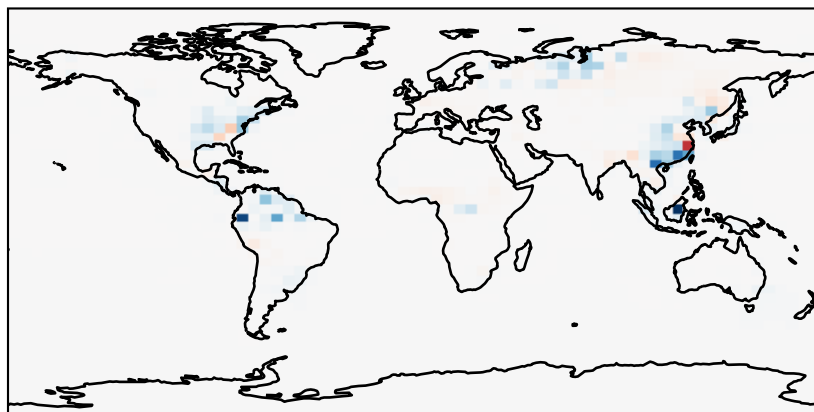


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

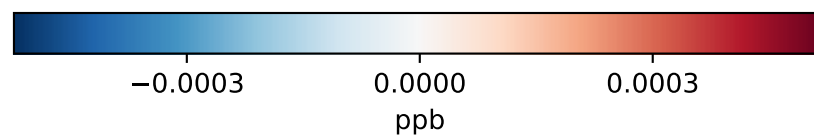
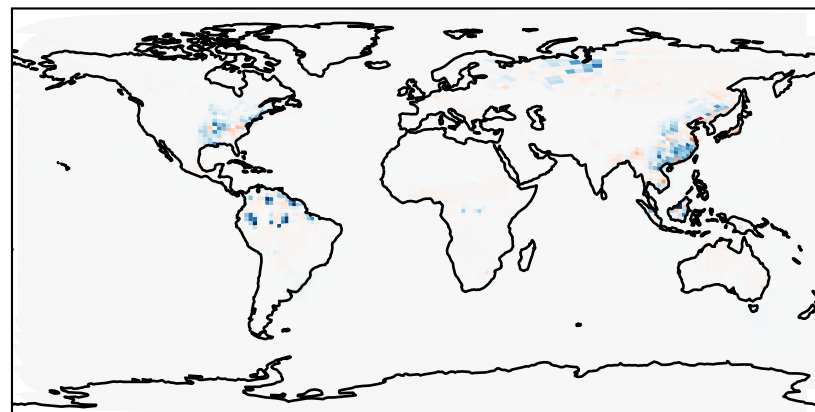


SpeciesConc_MPAN

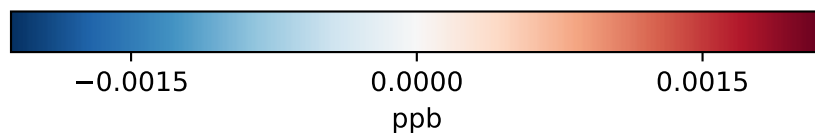
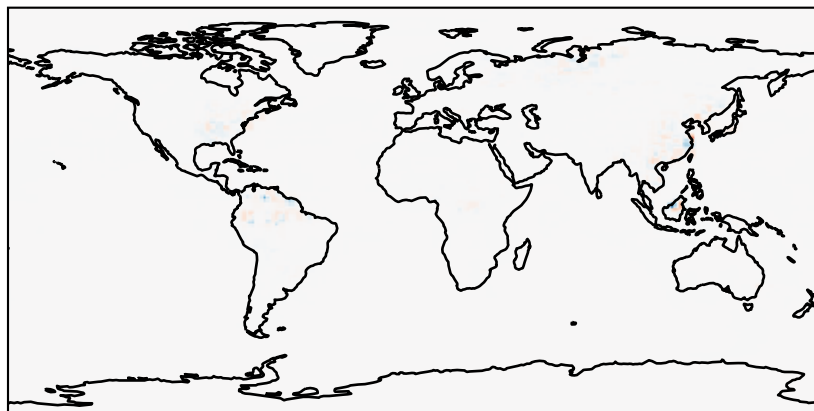
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



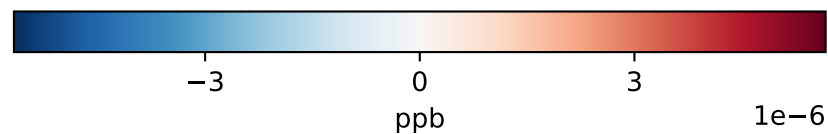
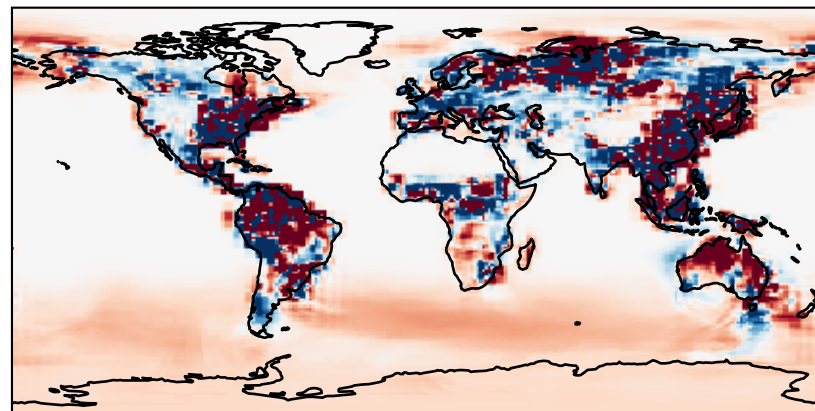
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



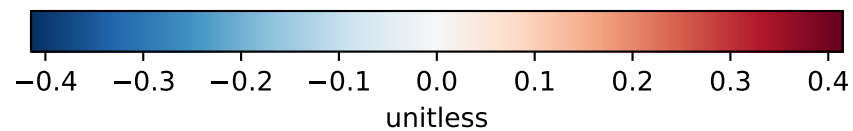
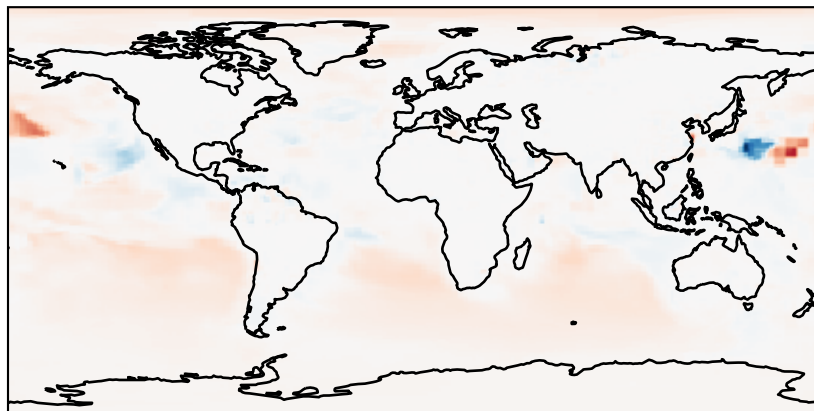
Difference (1x1.25)
Dev - Ref, Dynamic Range



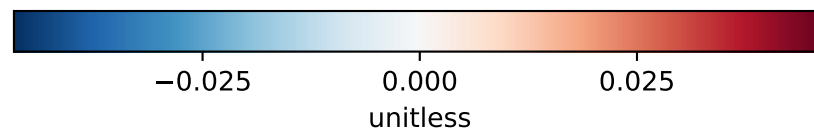
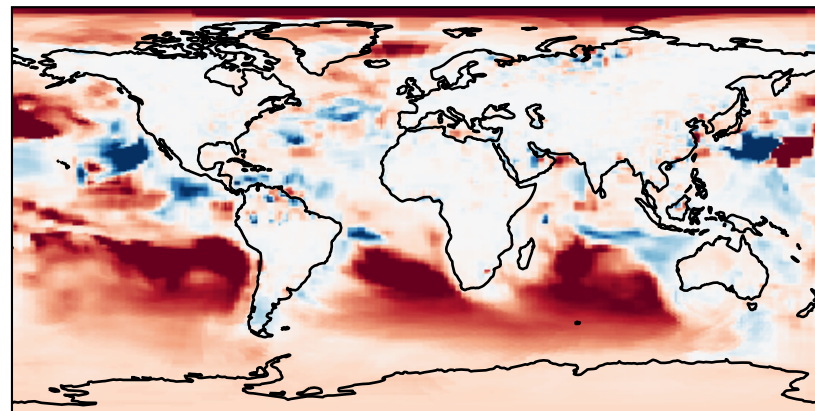
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

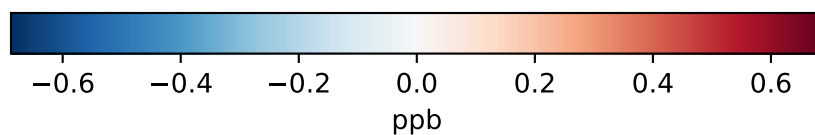
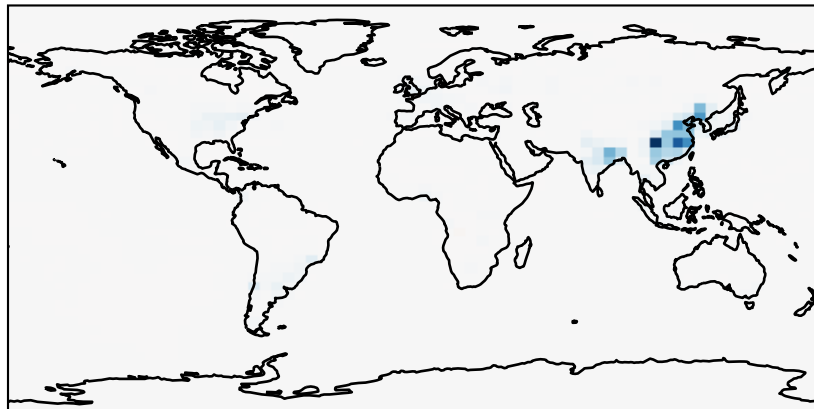


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

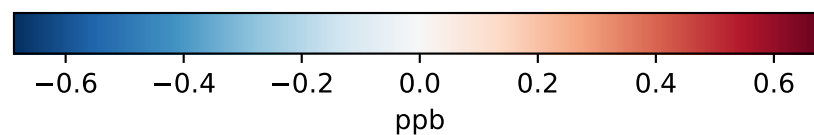


SpeciesConc_NIT

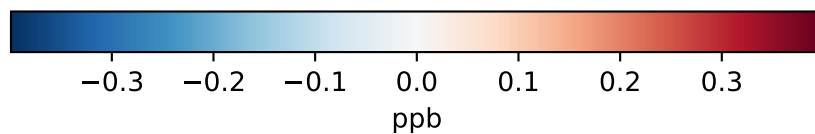
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



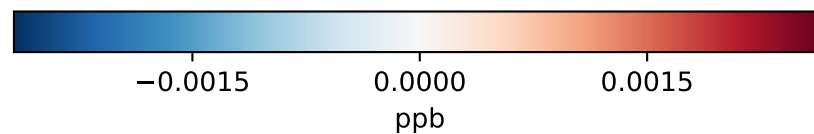
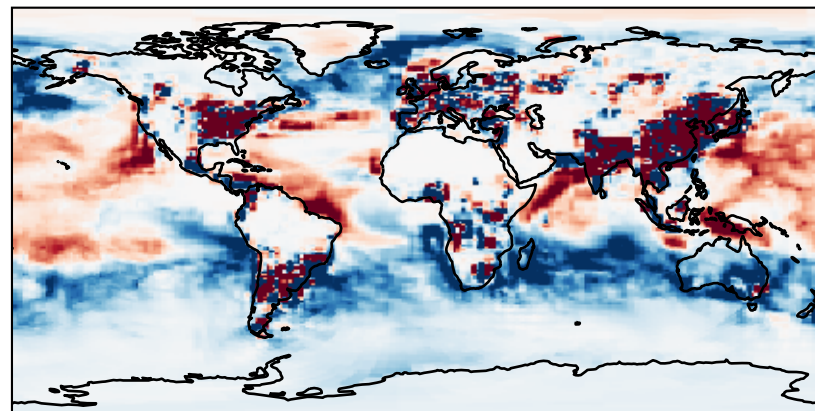
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



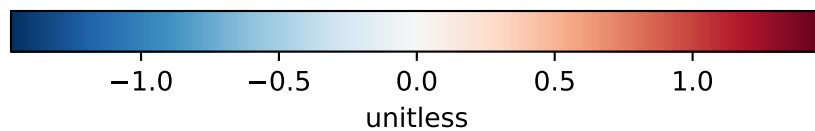
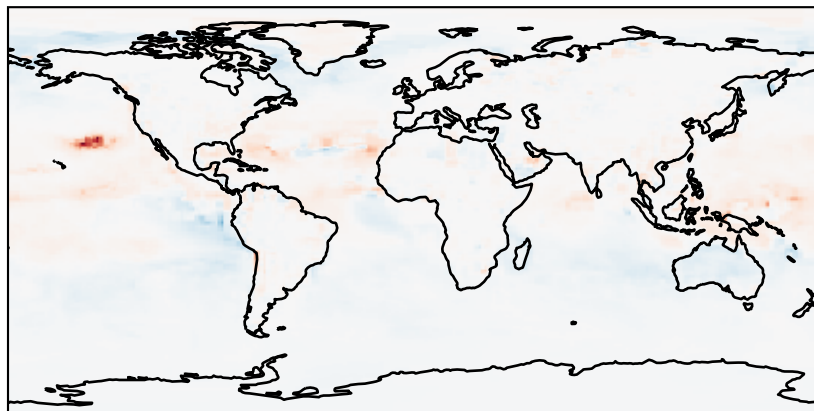
Difference (1x1.25)
Dev - Ref, Dynamic Range



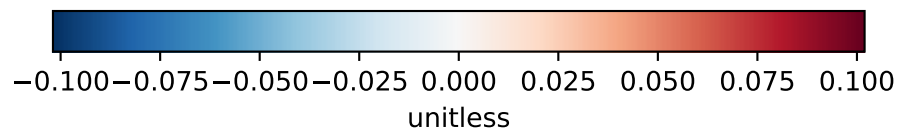
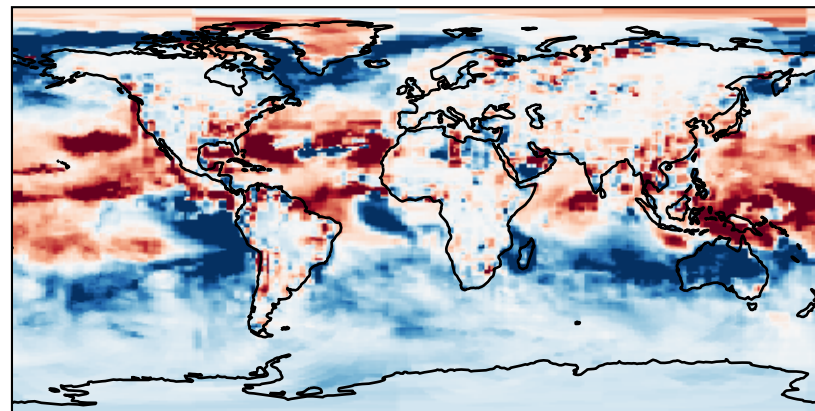
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

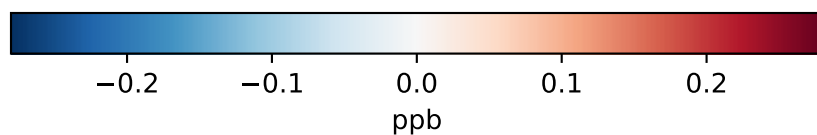
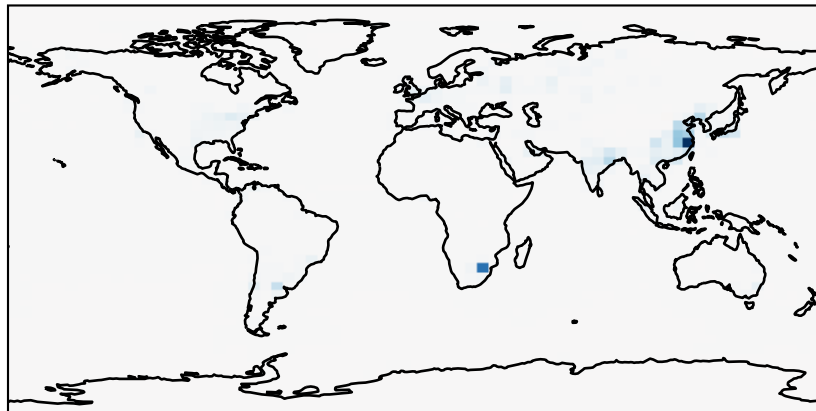


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

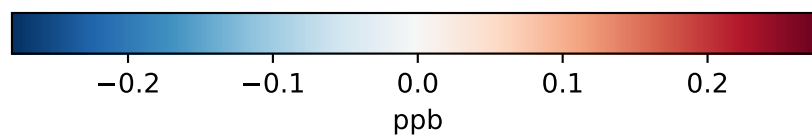


SpeciesConc_NO

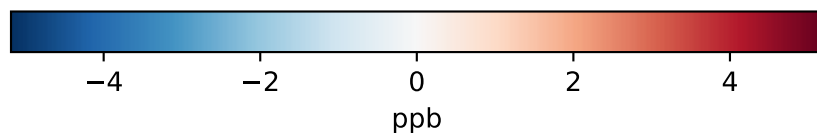
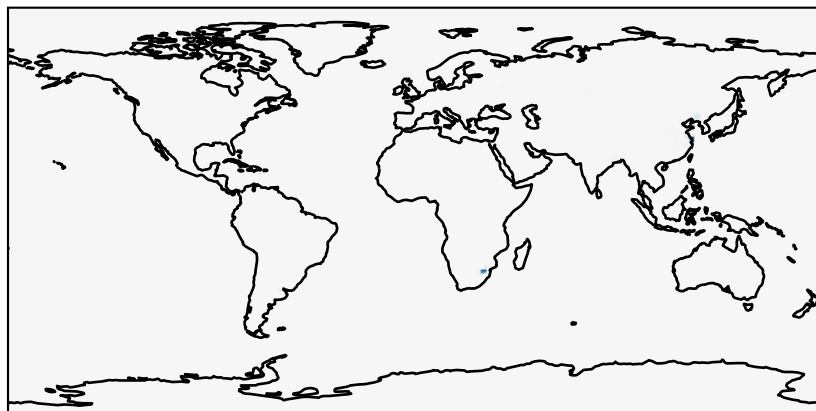
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



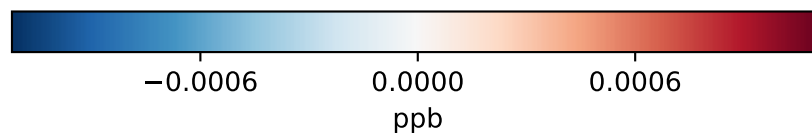
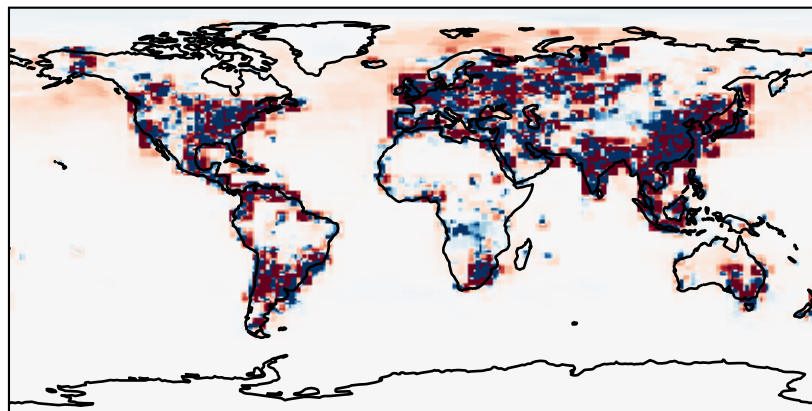
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



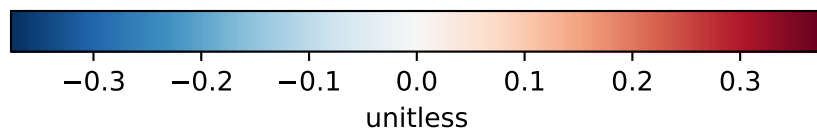
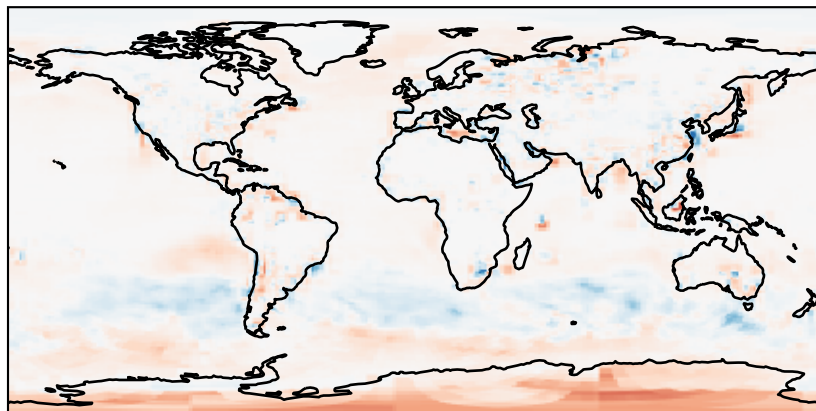
Difference (1x1.25)
Dev - Ref, Dynamic Range



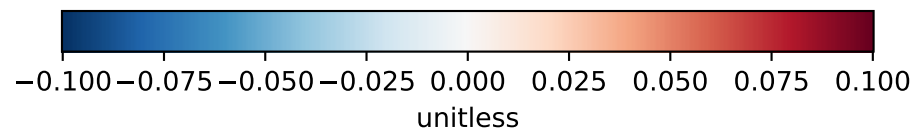
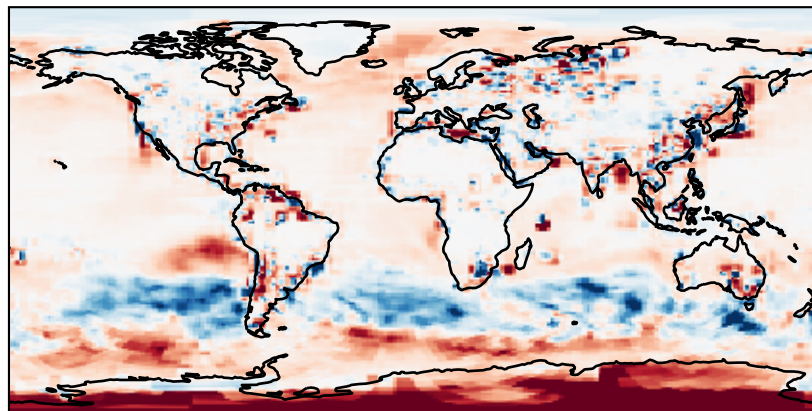
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

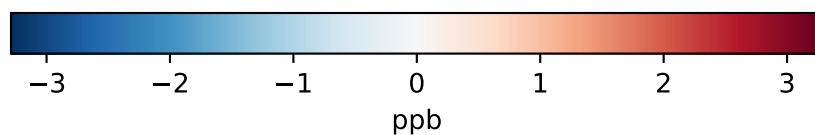
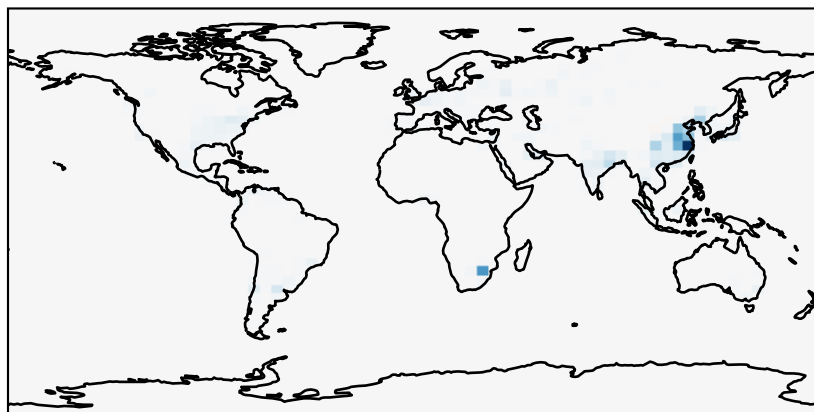


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

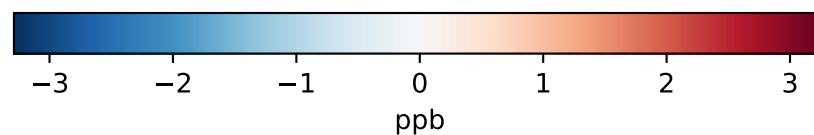
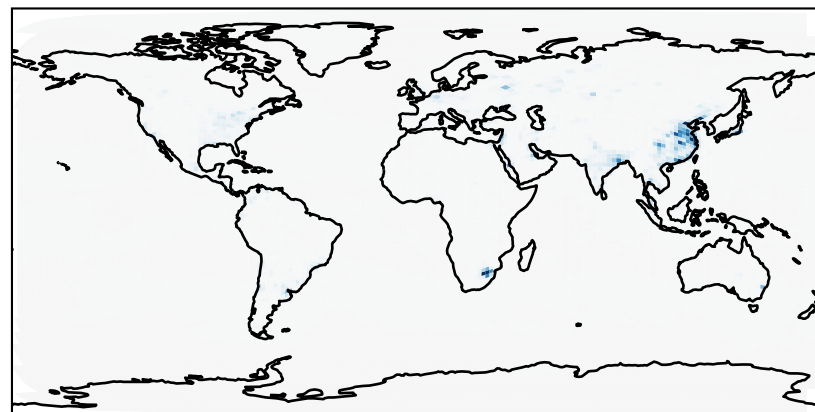


SpeciesConc_NO2

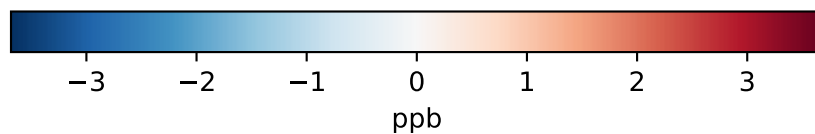
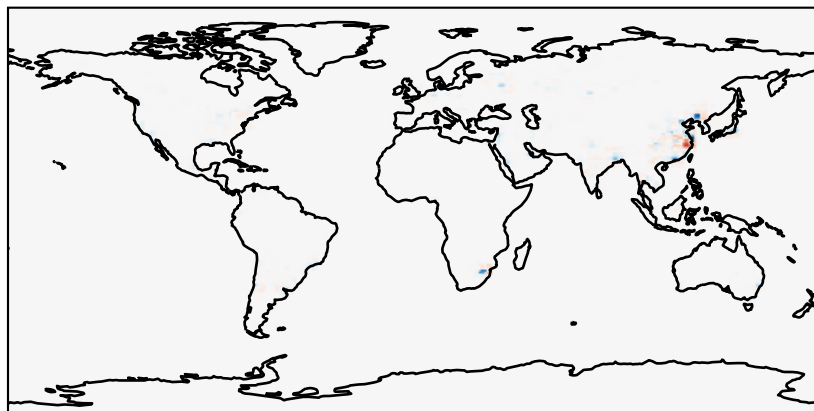
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



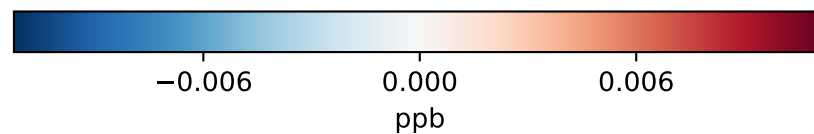
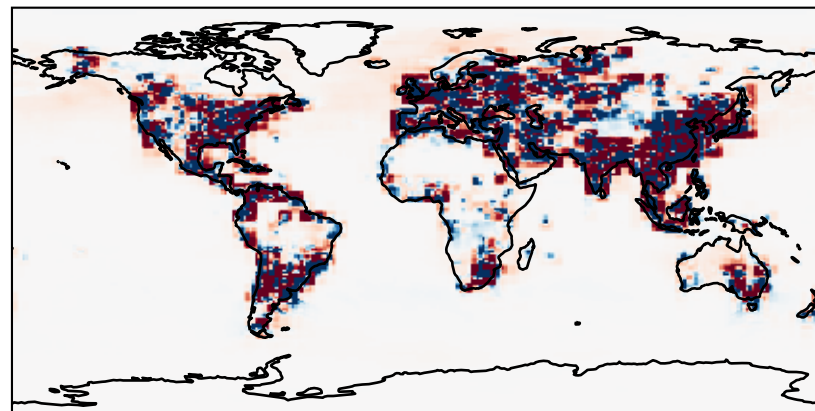
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



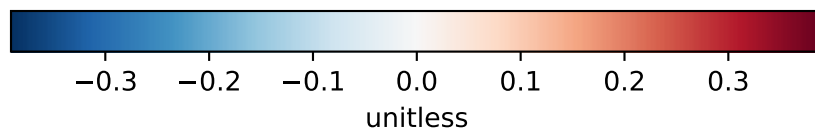
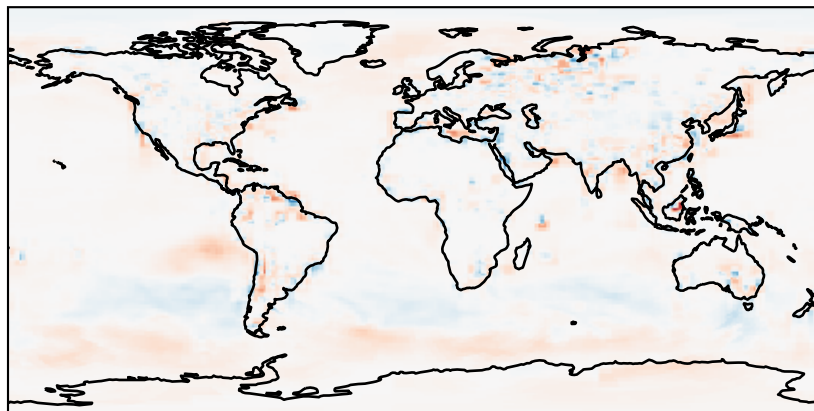
Difference (1x1.25)
Dev - Ref, Dynamic Range



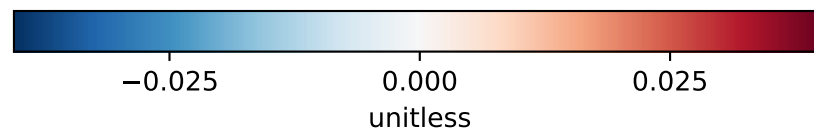
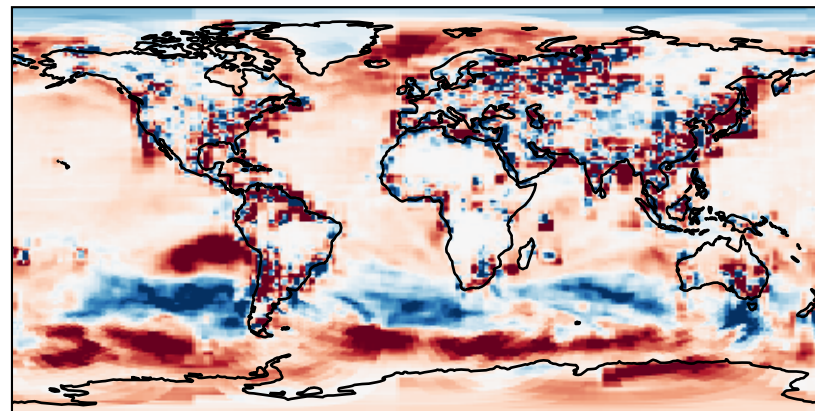
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

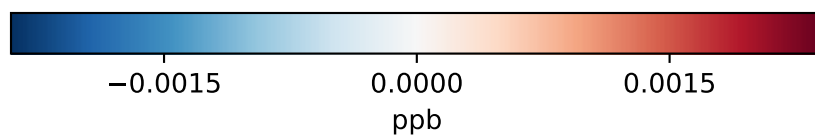
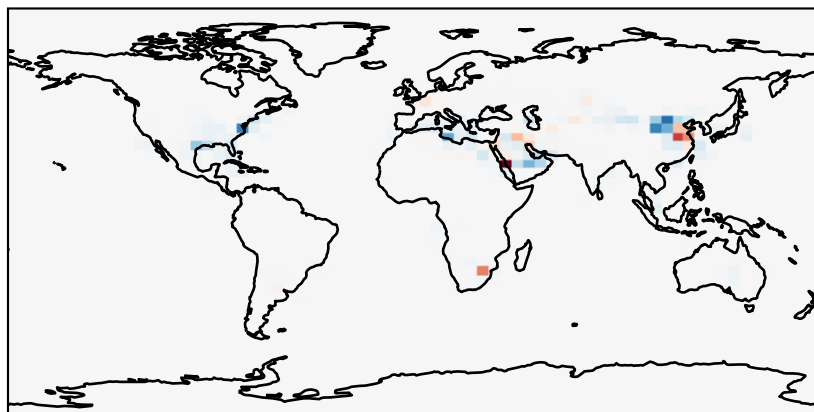


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

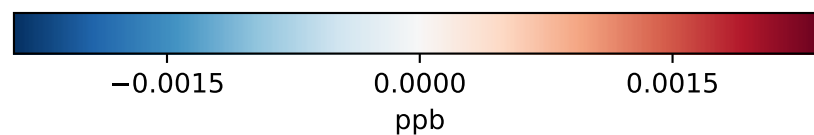
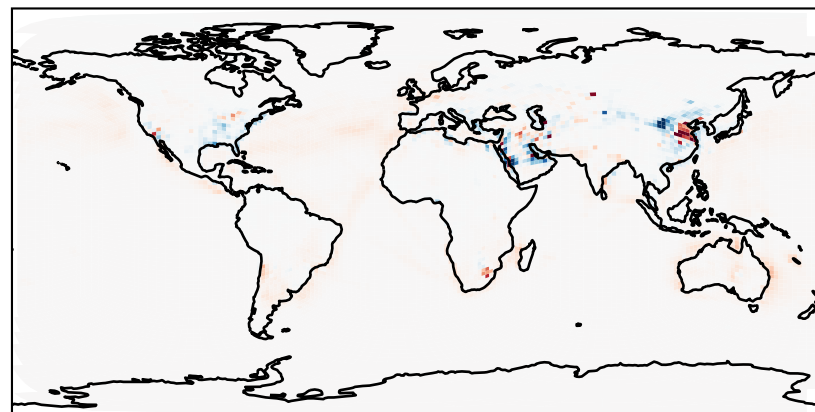


SpeciesConc_NO3

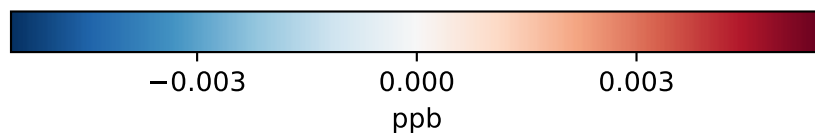
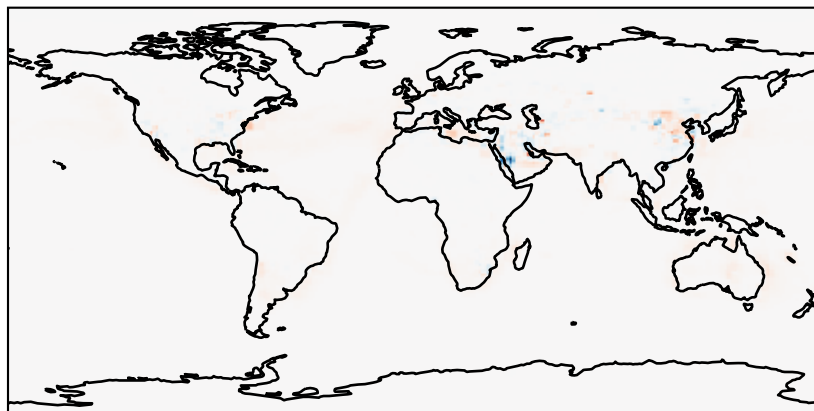
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



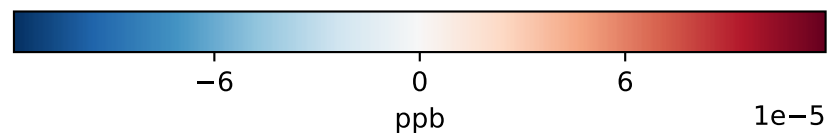
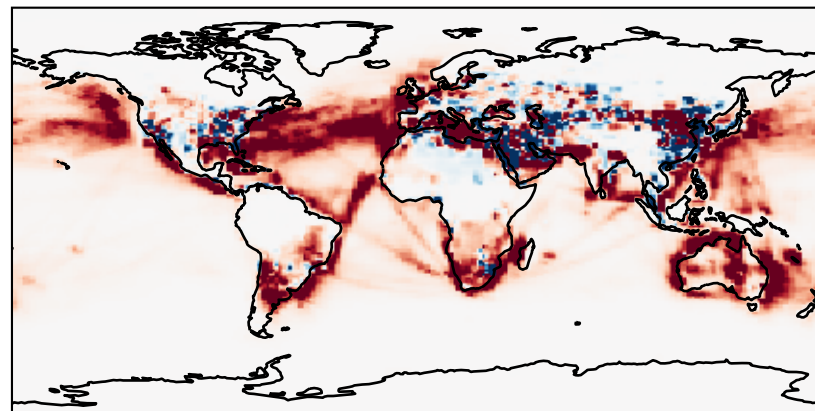
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



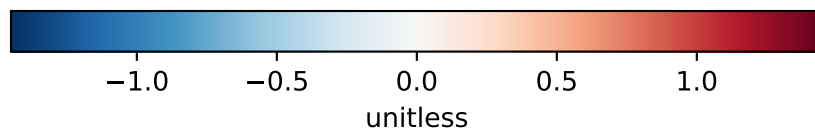
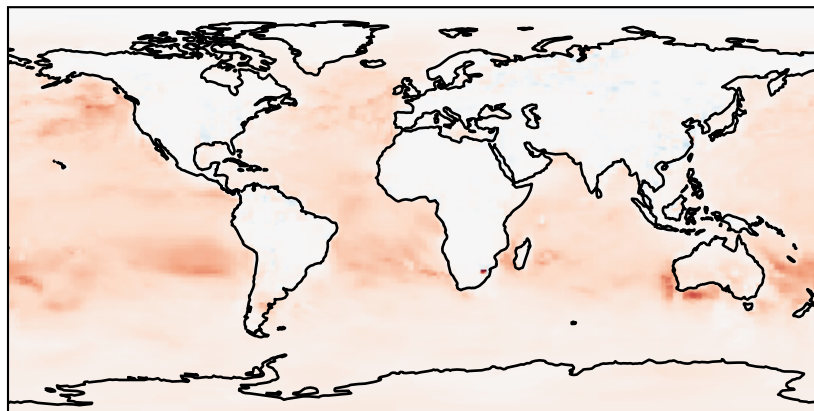
Difference (1x1.25)
Dev - Ref, Dynamic Range



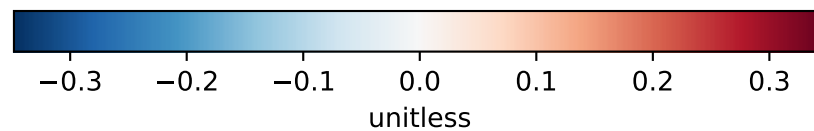
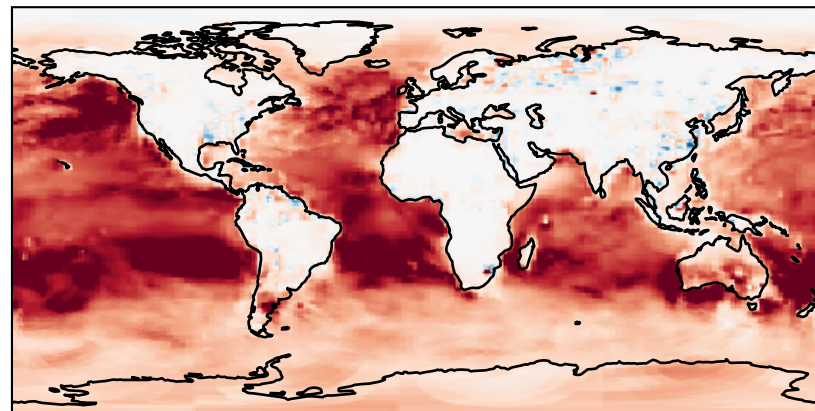
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

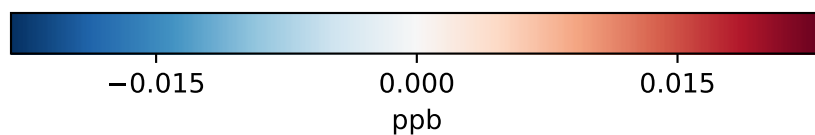
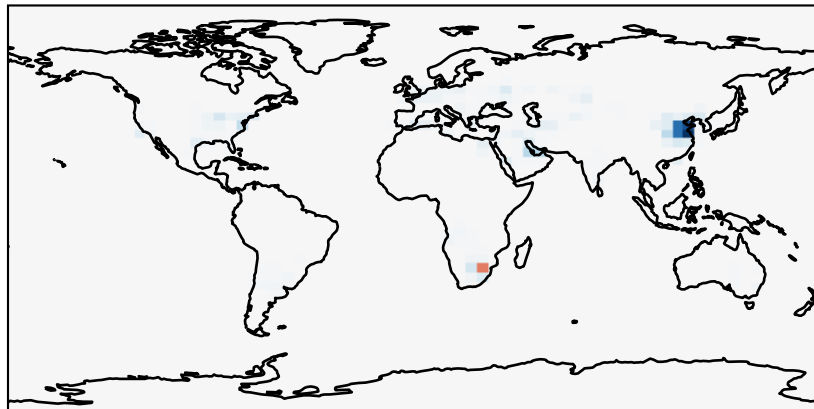


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

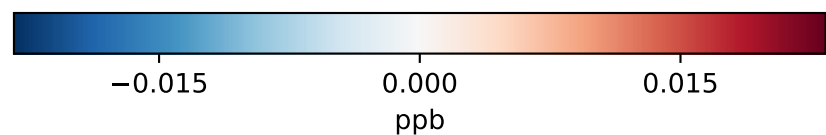
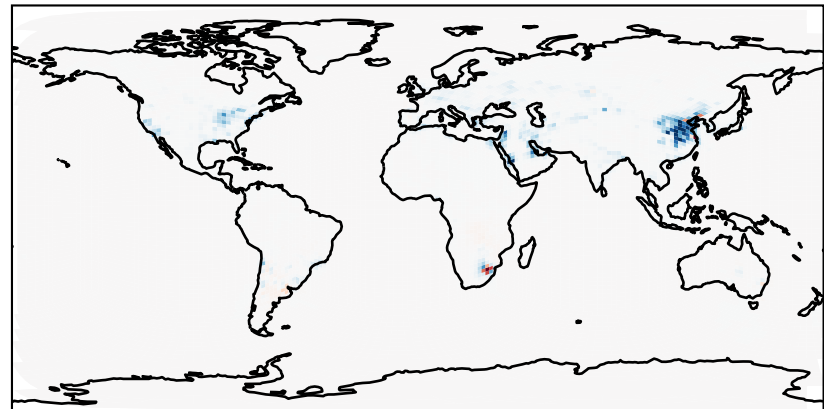


SpeciesConc_N2O5

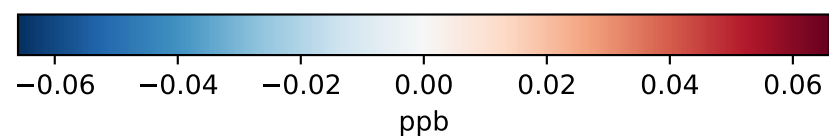
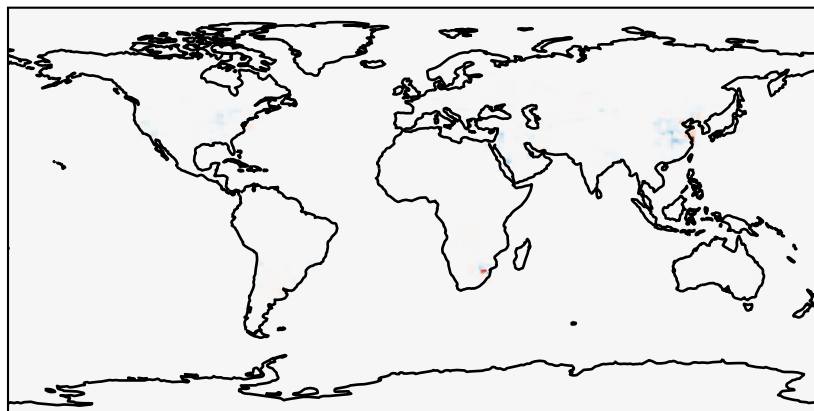
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



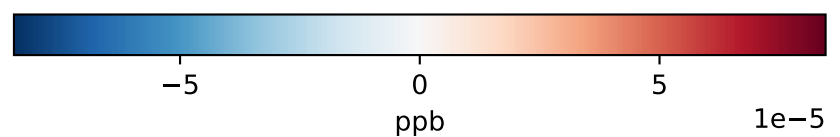
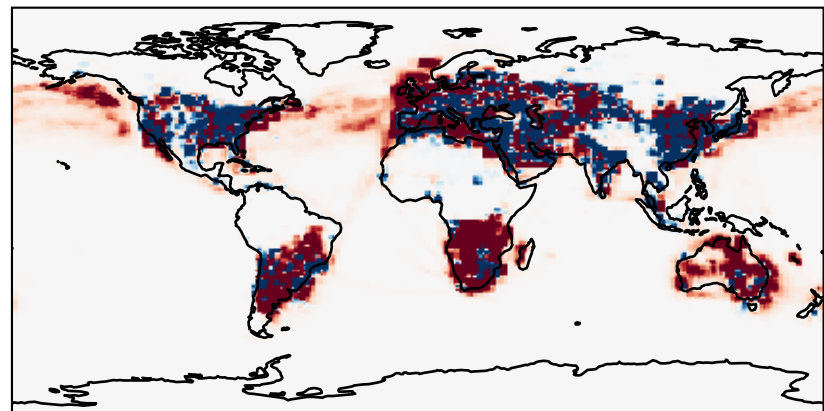
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



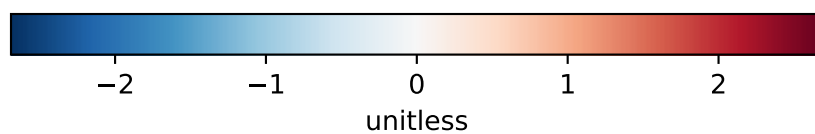
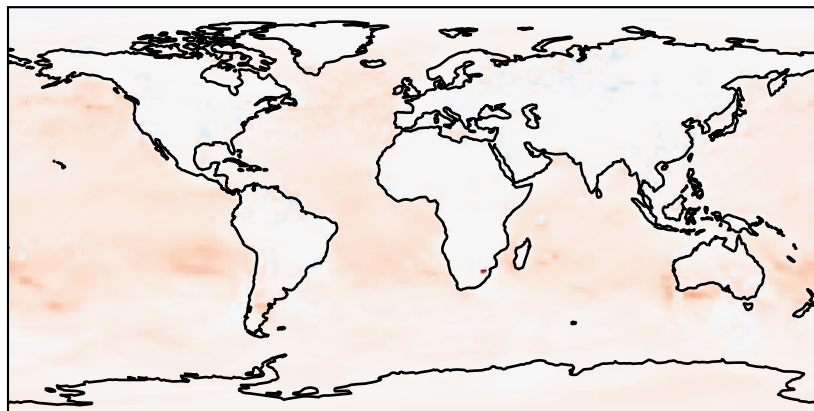
Difference (1x1.25)
Dev - Ref, Dynamic Range



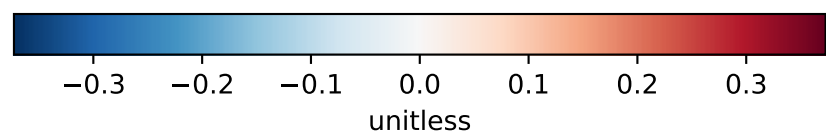
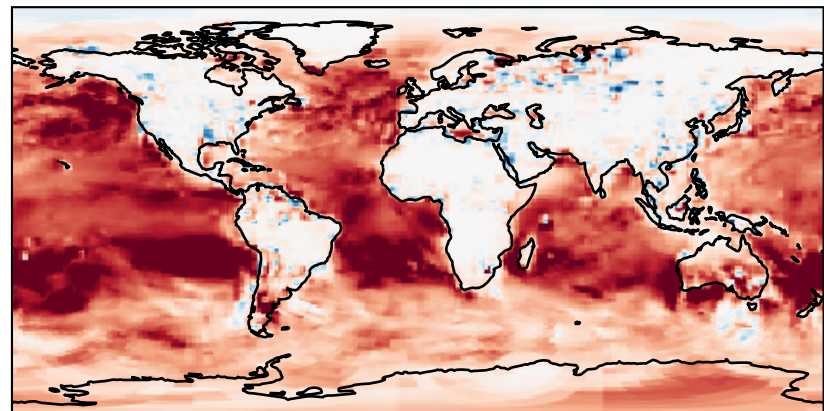
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
 $\text{GCHP_dev} / \text{GCHP_ref} - \text{GCC_dev} / \text{GCC_ref}$

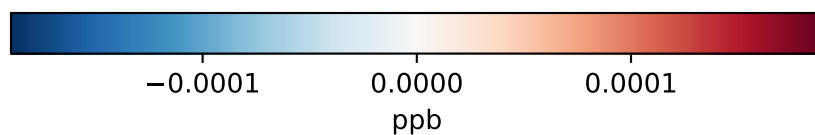
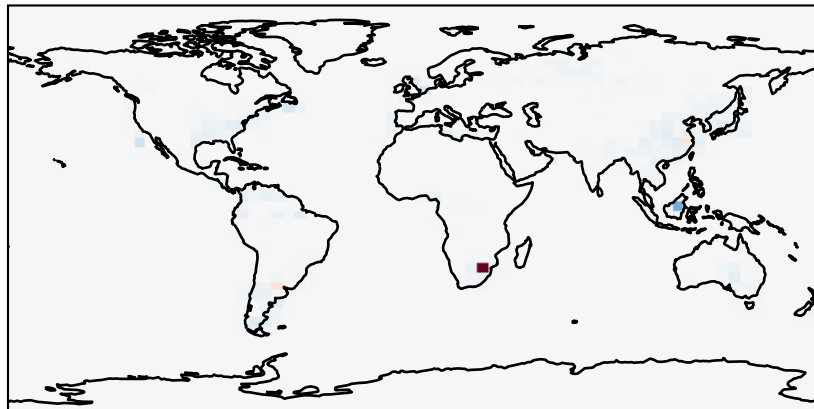


Difference (1x1.25), Restricted Range [5%,95%]
 $\text{GCHP_dev} / \text{GCHP_ref} - \text{GCC_dev} / \text{GCC_ref}$

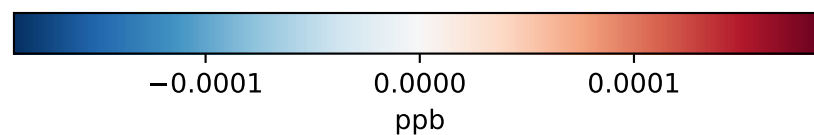
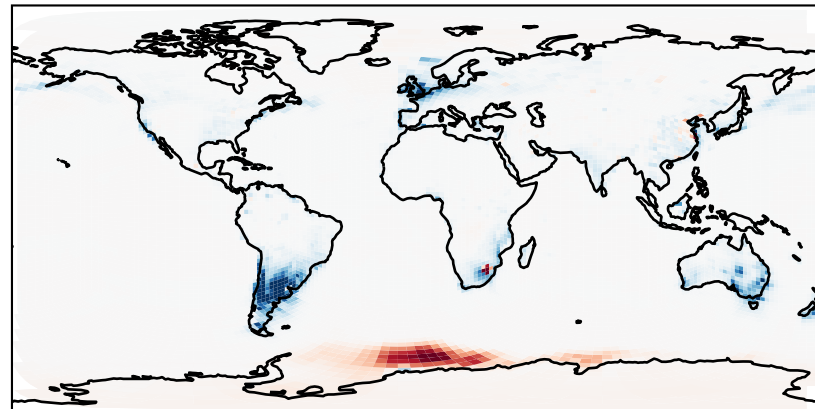


SpeciesConc_MPN

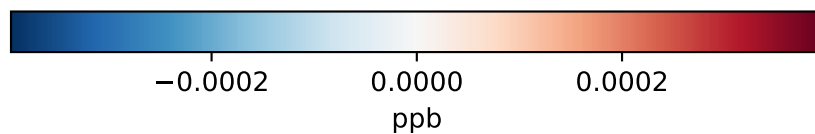
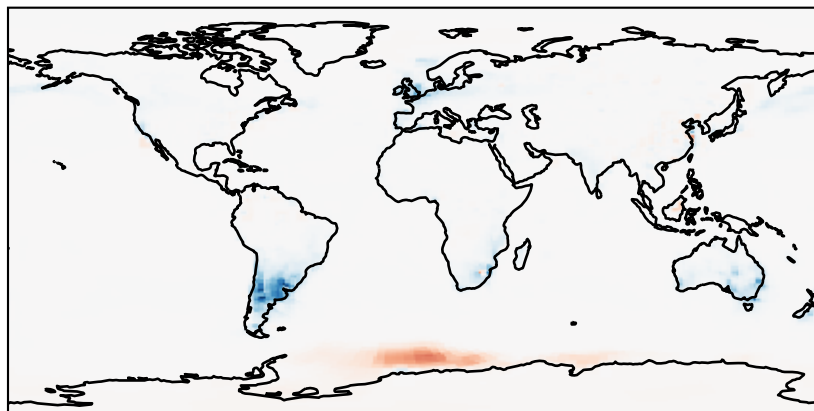
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



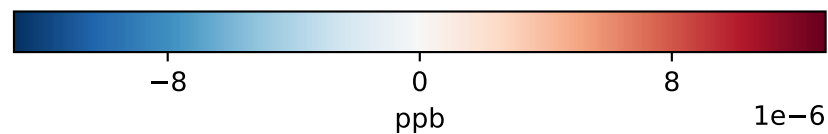
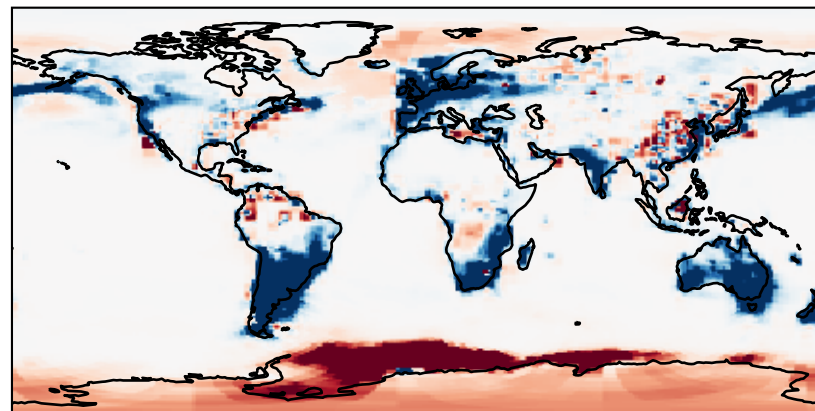
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



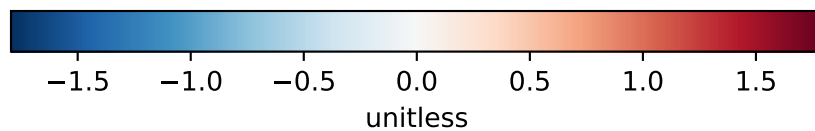
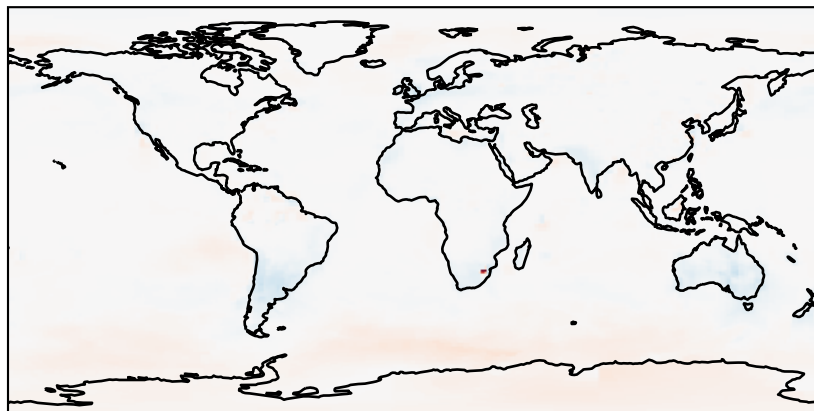
Difference (1x1.25)
Dev - Ref, Dynamic Range



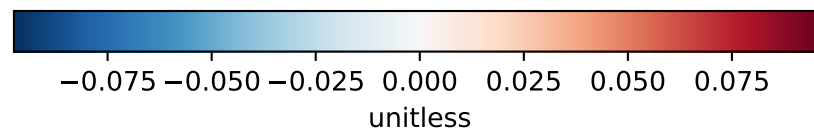
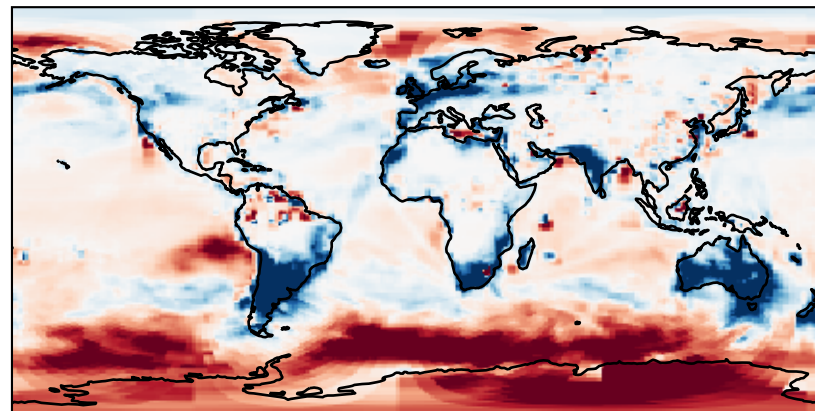
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

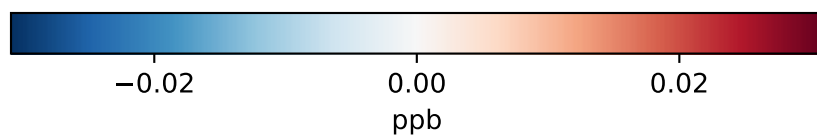
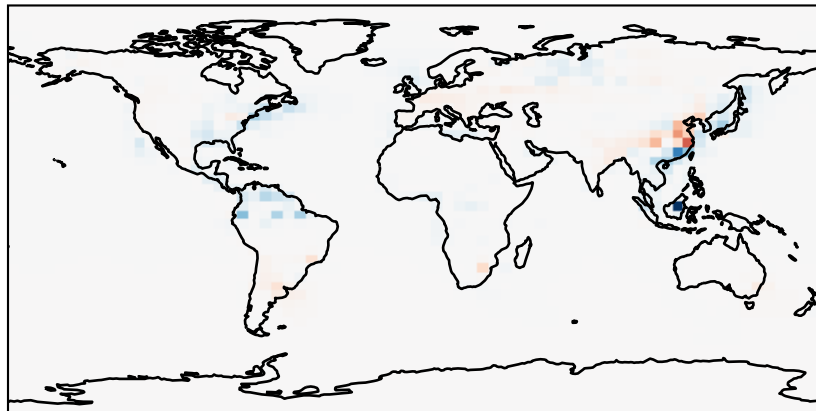


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

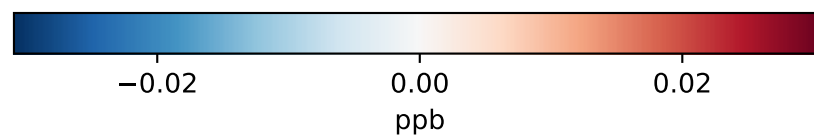
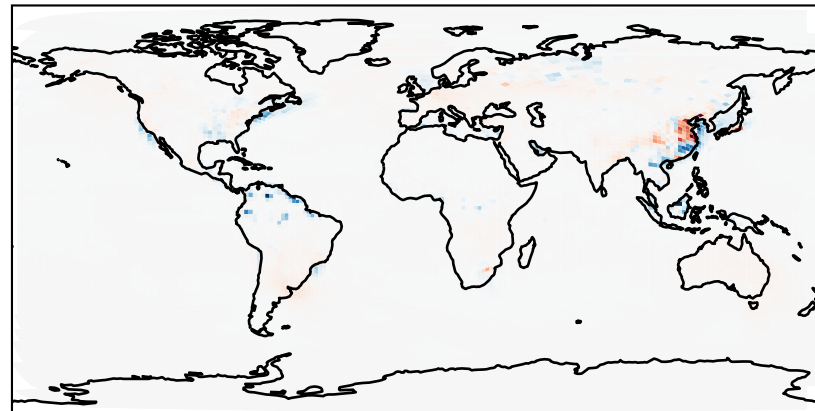


SpeciesConc_PAN

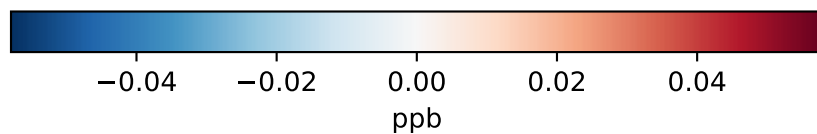
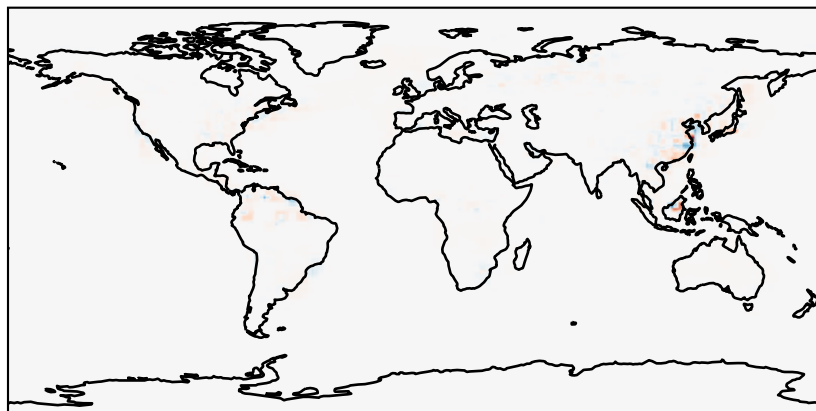
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



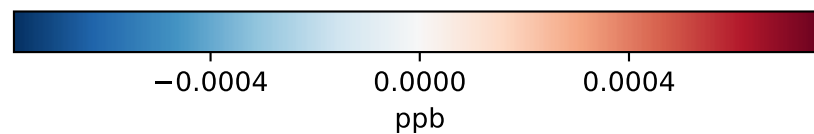
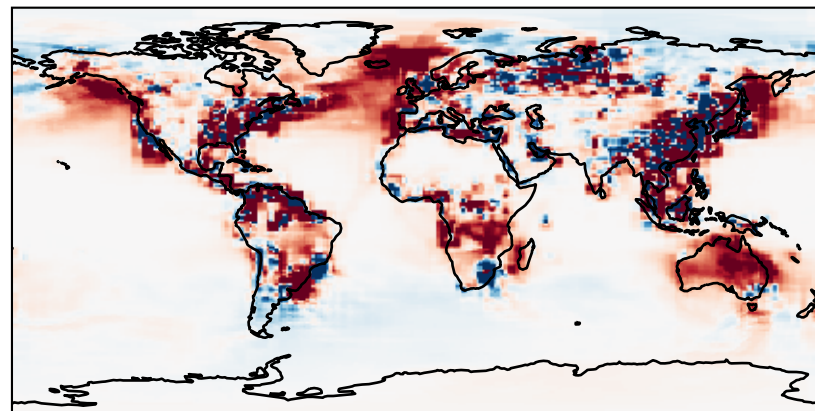
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



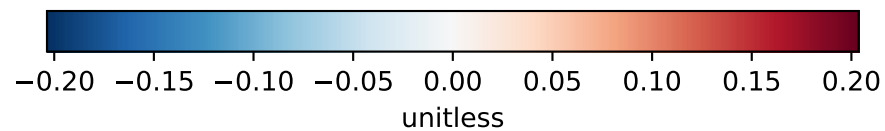
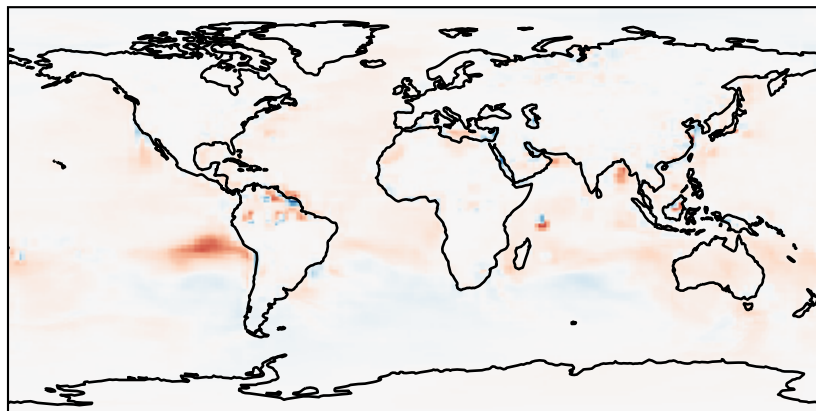
Difference (1x1.25)
Dev - Ref, Dynamic Range



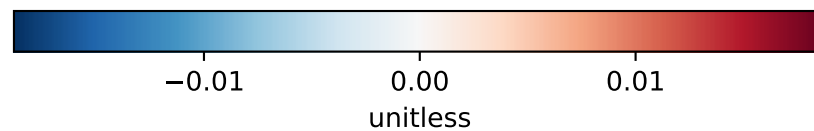
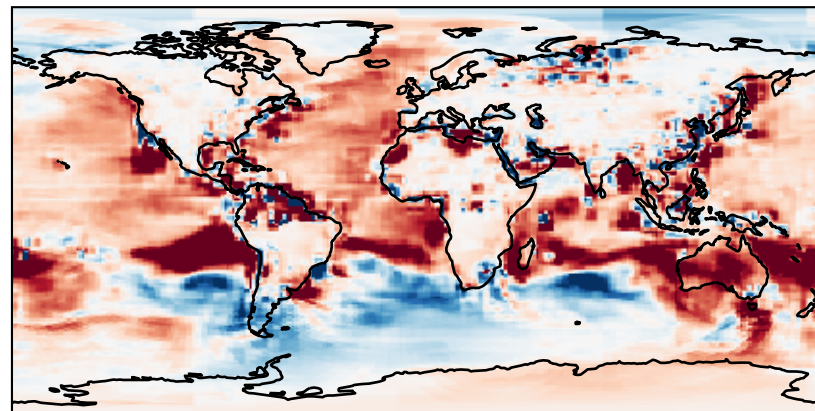
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

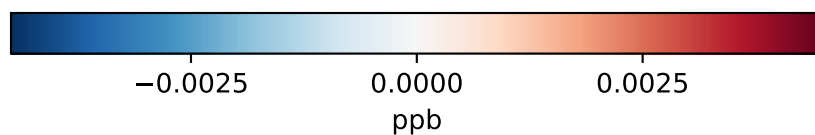
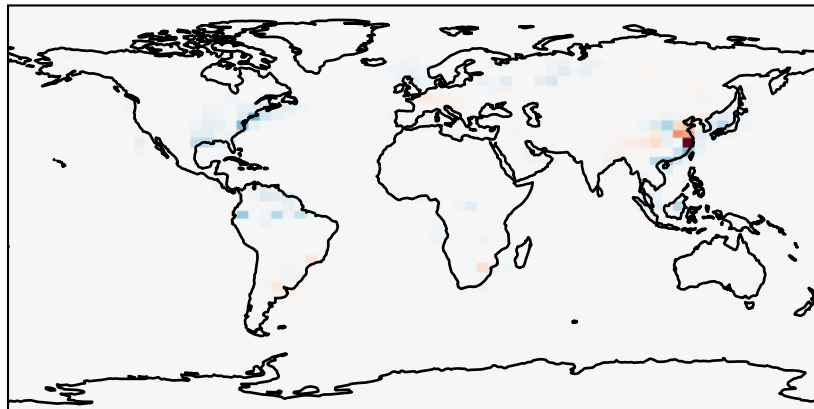


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

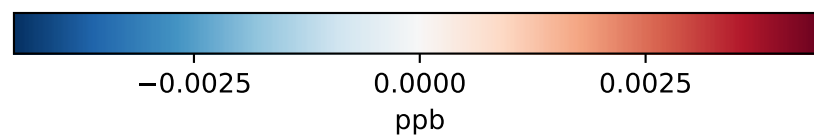


SpeciesConc_PPN

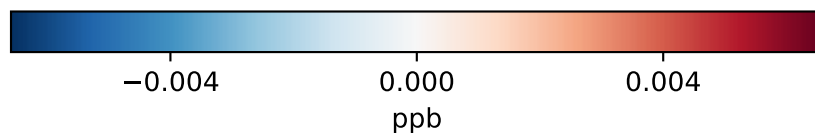
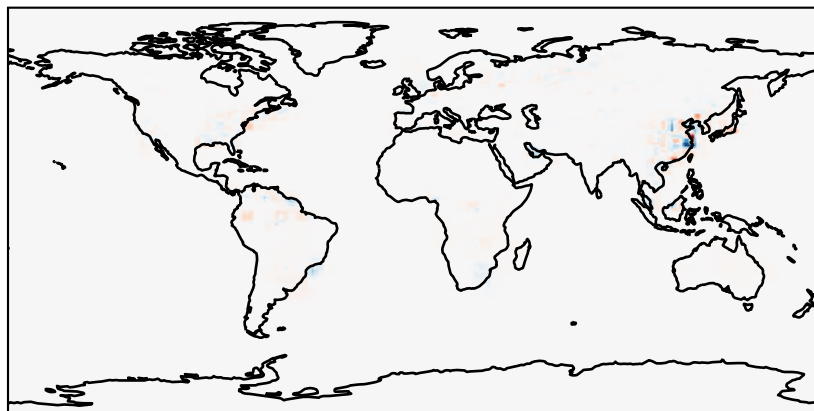
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



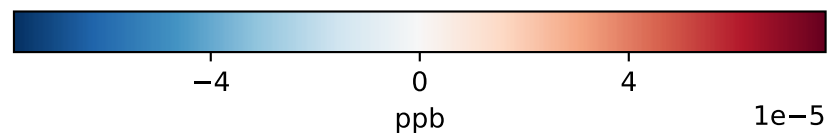
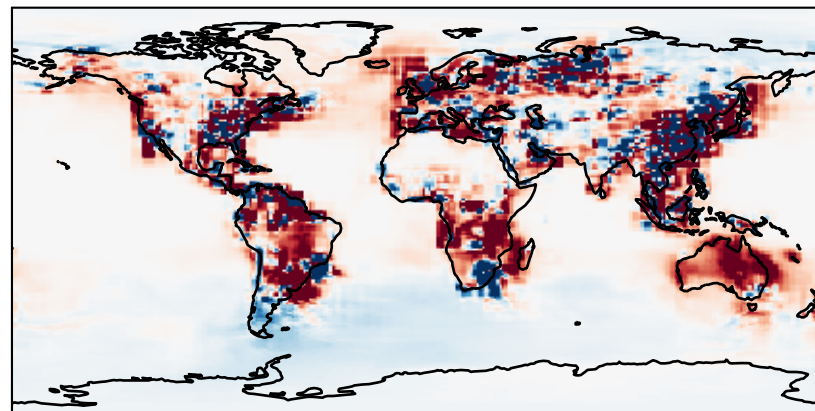
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



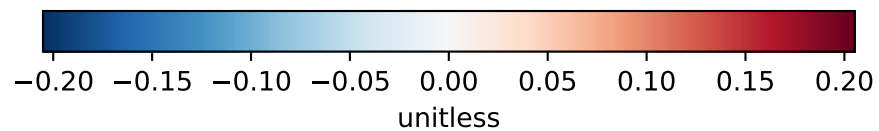
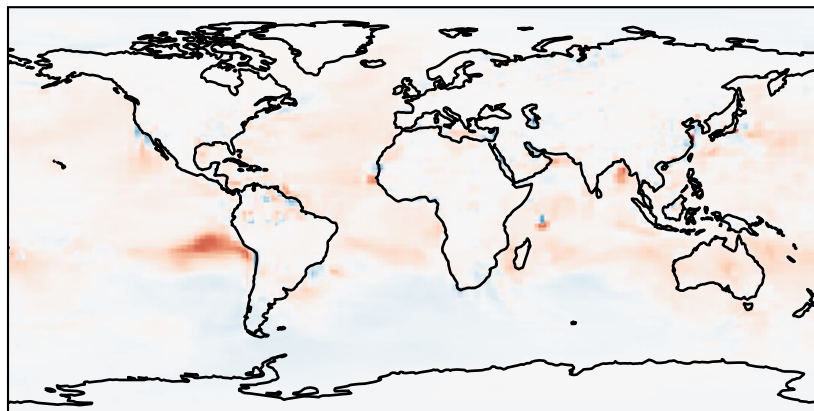
Difference (1x1.25)
Dev - Ref, Dynamic Range



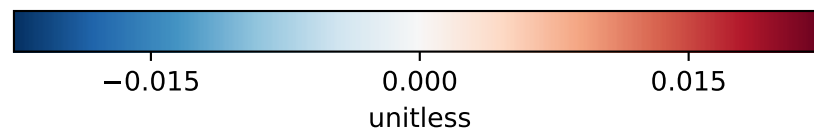
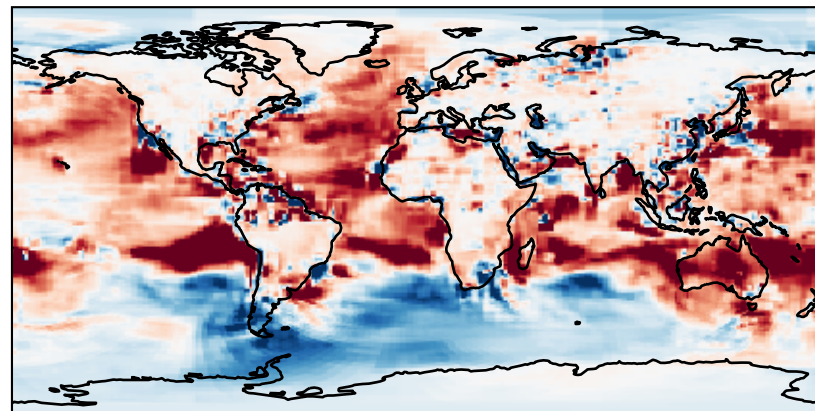
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

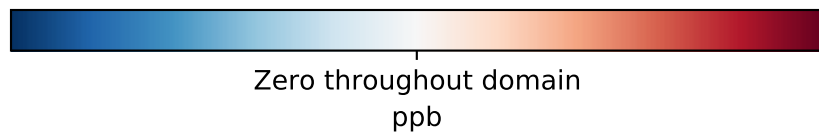
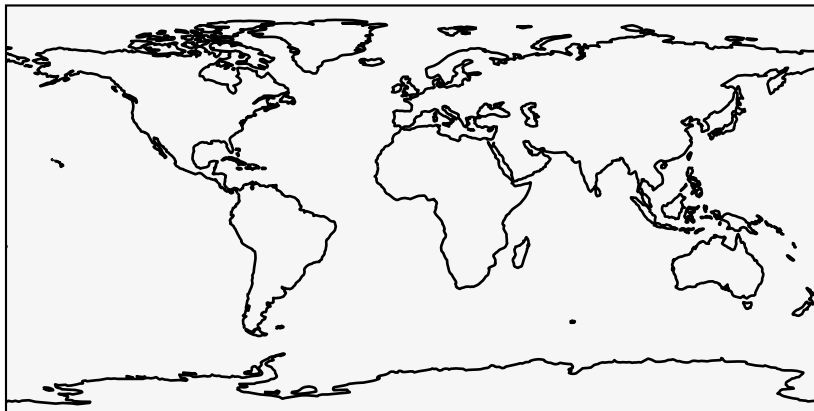


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

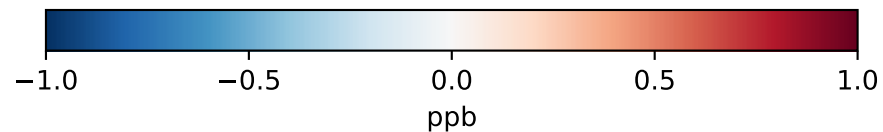
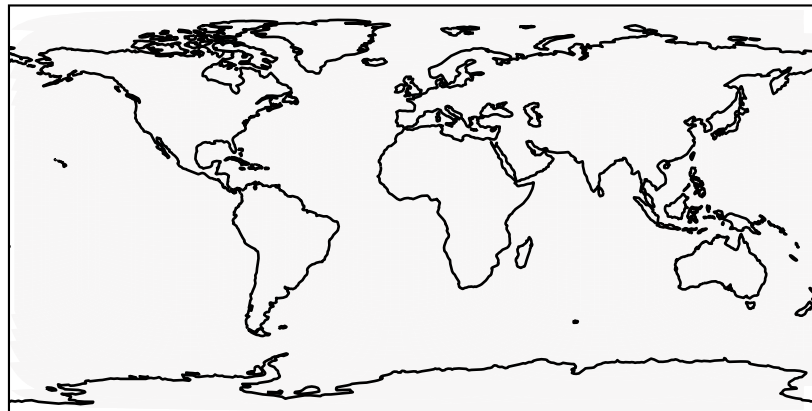


SpeciesConc_N2O

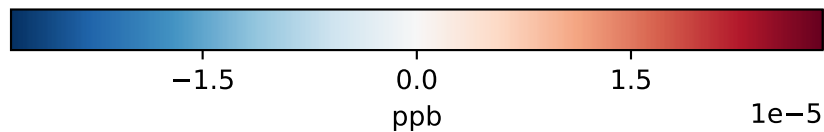
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



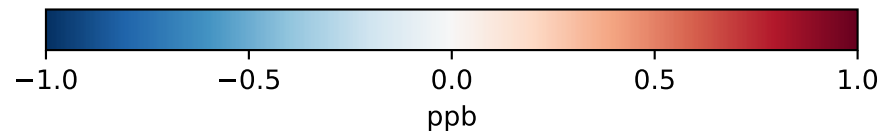
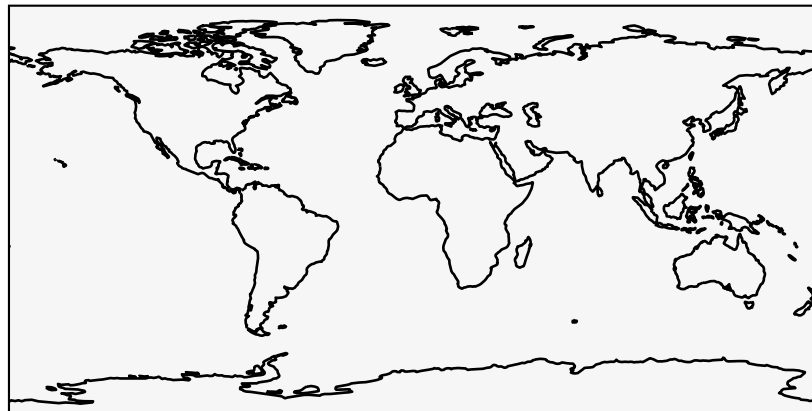
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



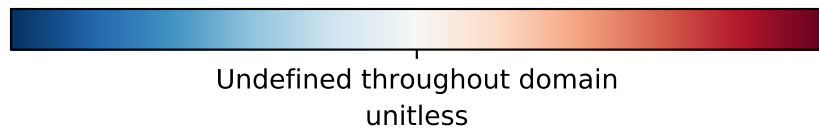
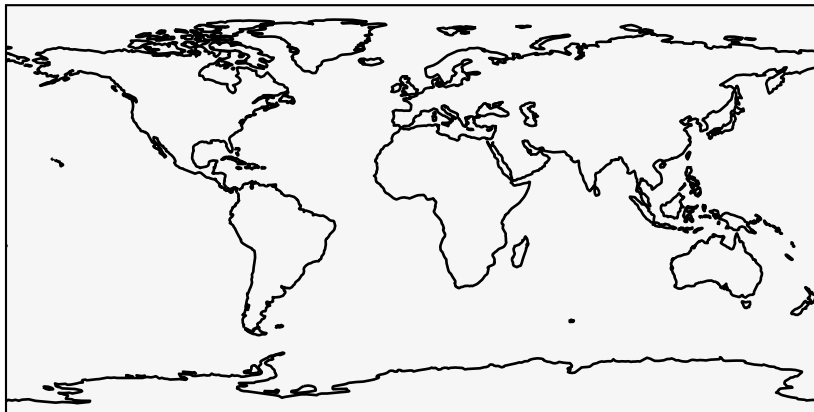
Difference (1x1.25)
Dev - Ref, Dynamic Range



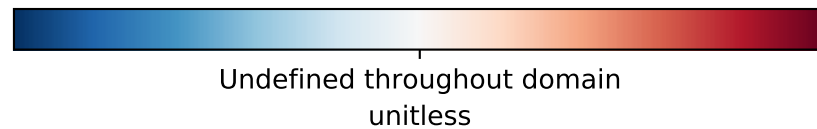
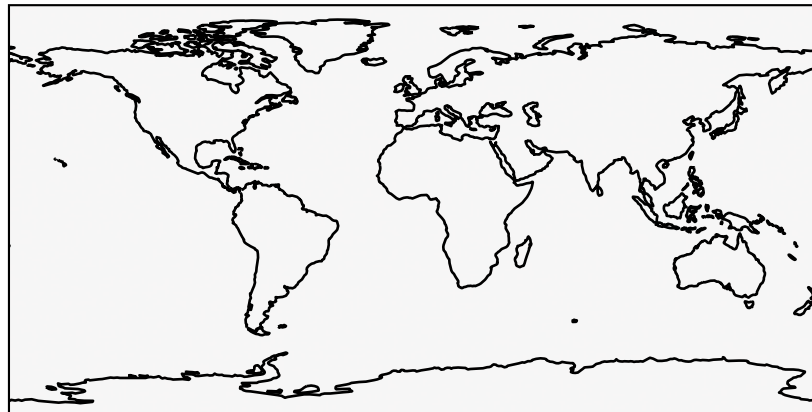
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

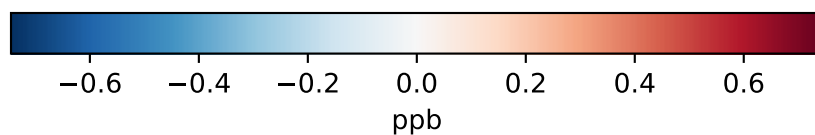
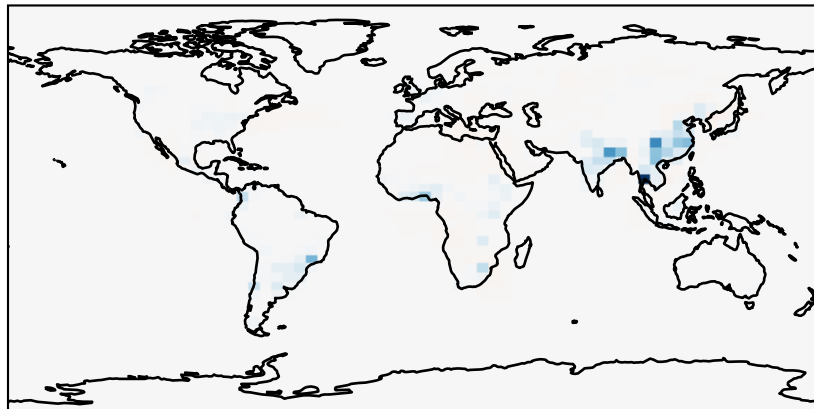


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

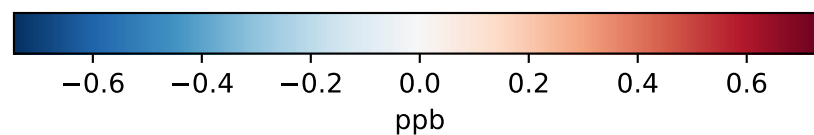
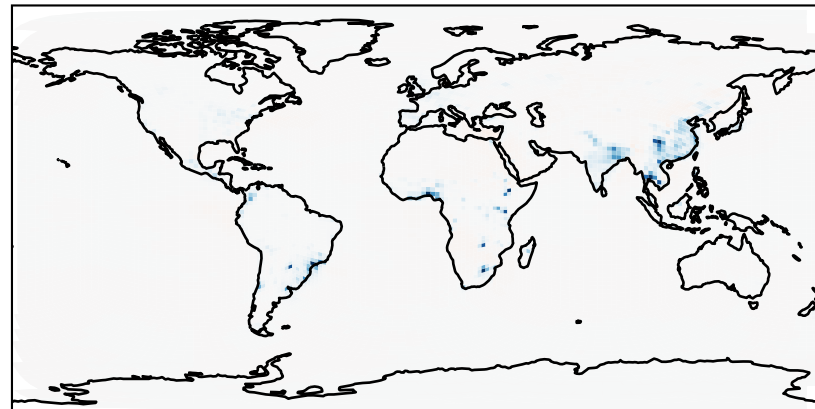


SpeciesConc_NHx

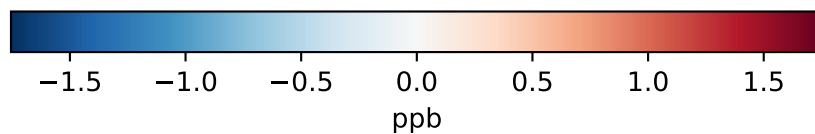
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



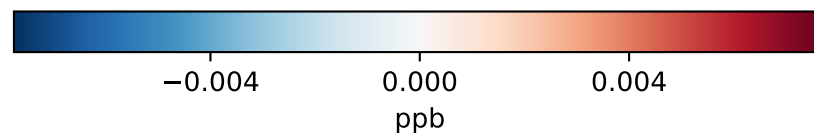
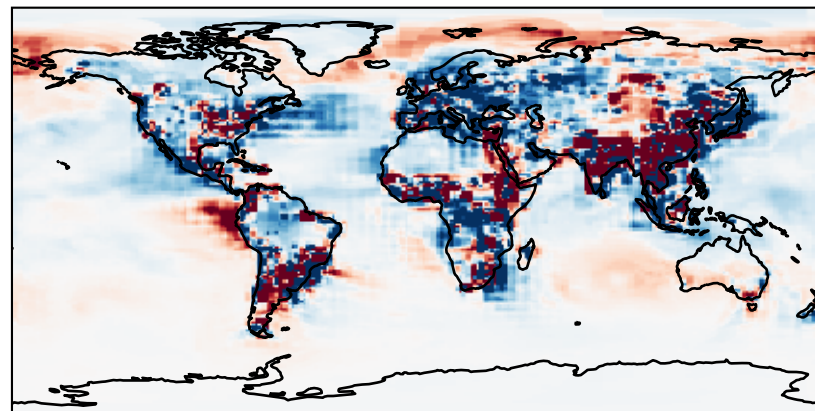
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



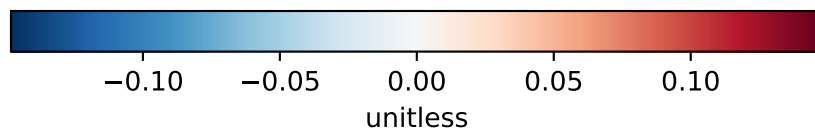
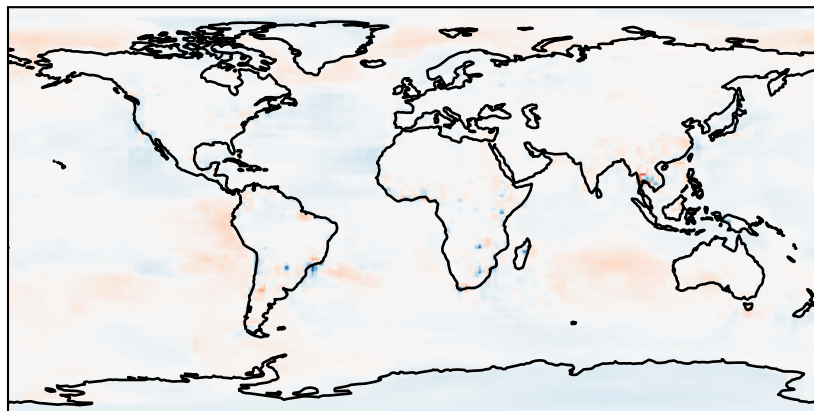
Difference (1x1.25)
Dev - Ref, Dynamic Range



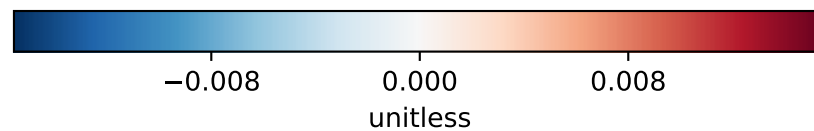
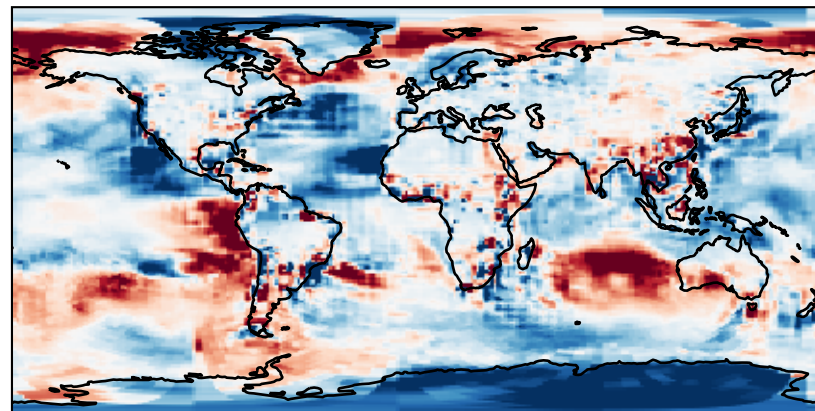
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

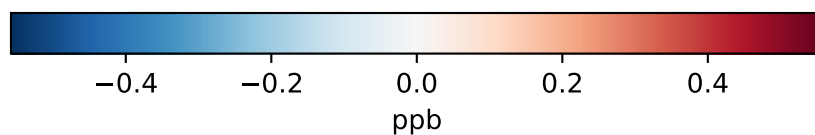
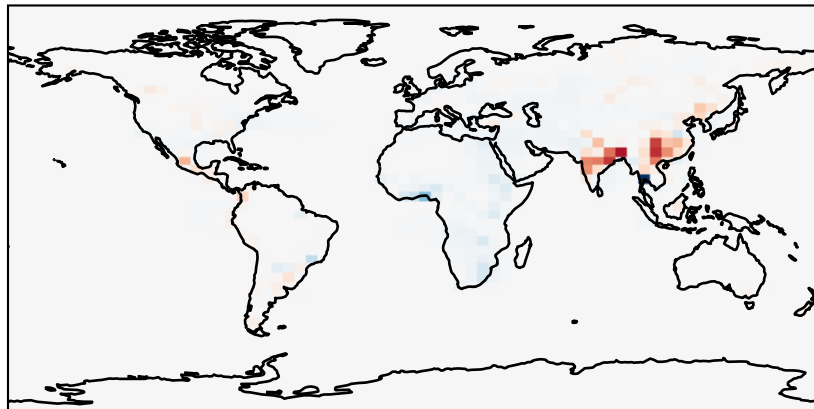


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

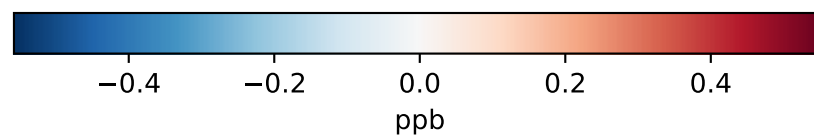
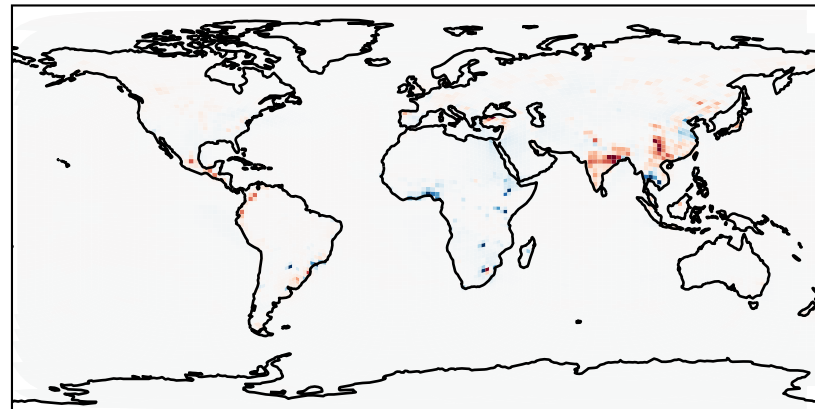


SpeciesConc_NH3

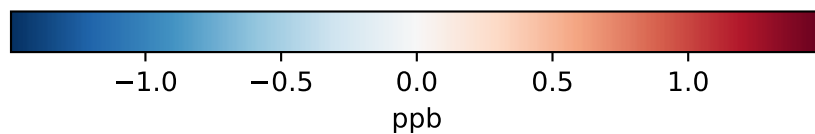
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



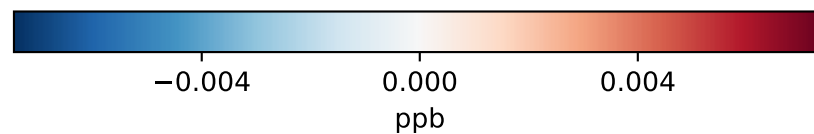
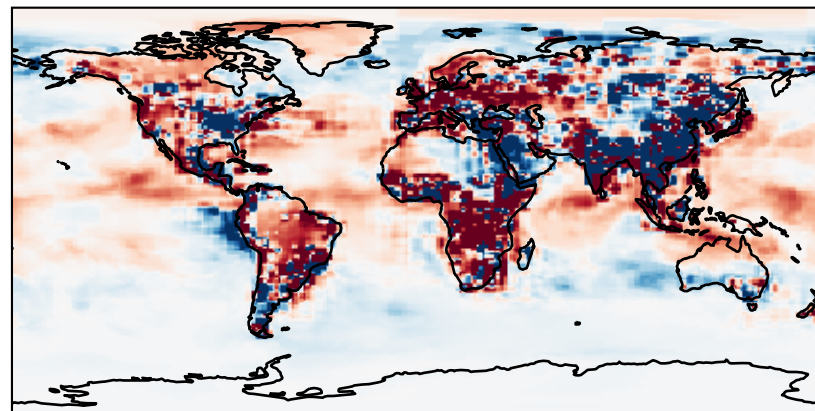
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



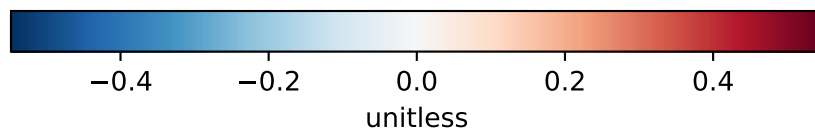
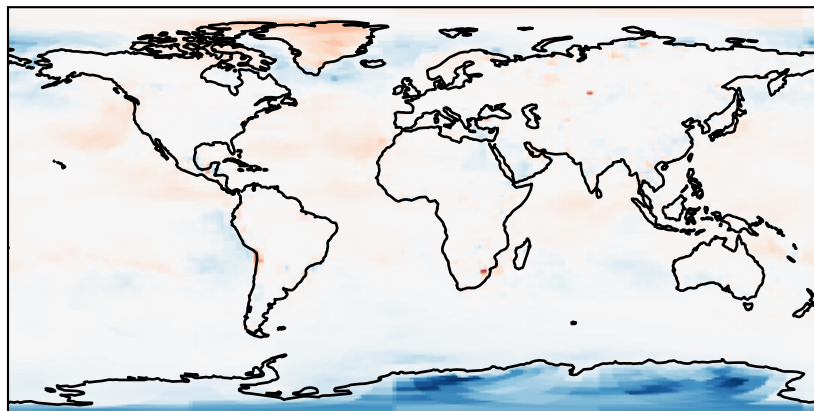
Difference (1x1.25)
Dev - Ref, Dynamic Range



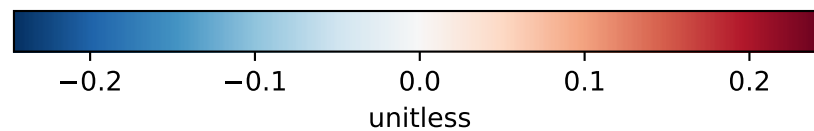
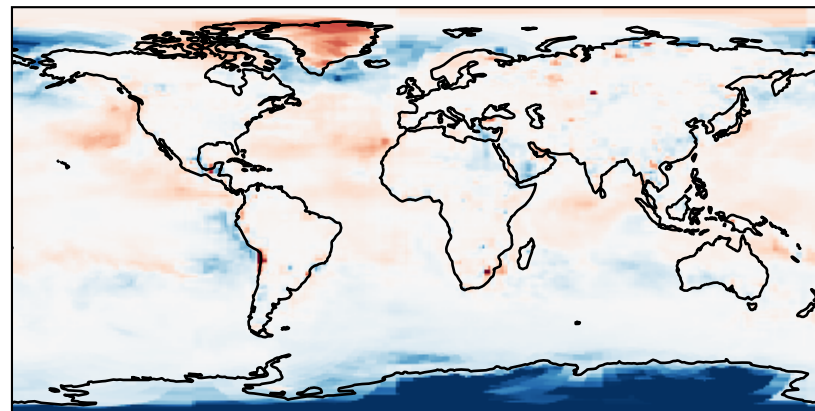
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
 $\text{GCHP_dev} / \text{GCHP_ref} - \text{GCC_dev} / \text{GCC_ref}$

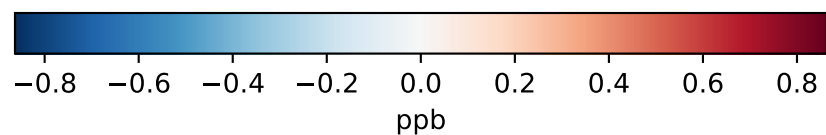
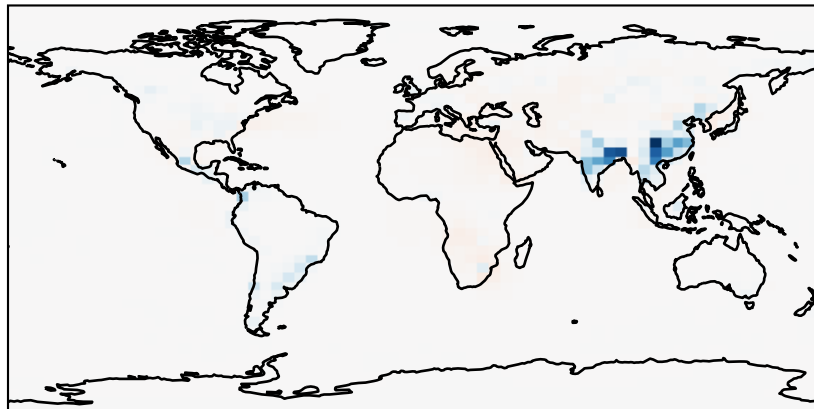


Difference (1x1.25), Restricted Range [5%,95%]
 $\text{GCHP_dev} / \text{GCHP_ref} - \text{GCC_dev} / \text{GCC_ref}$

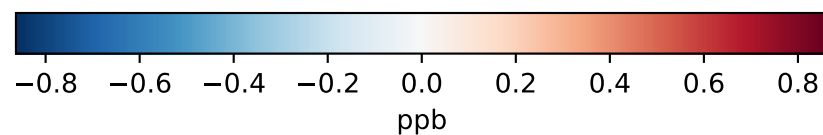
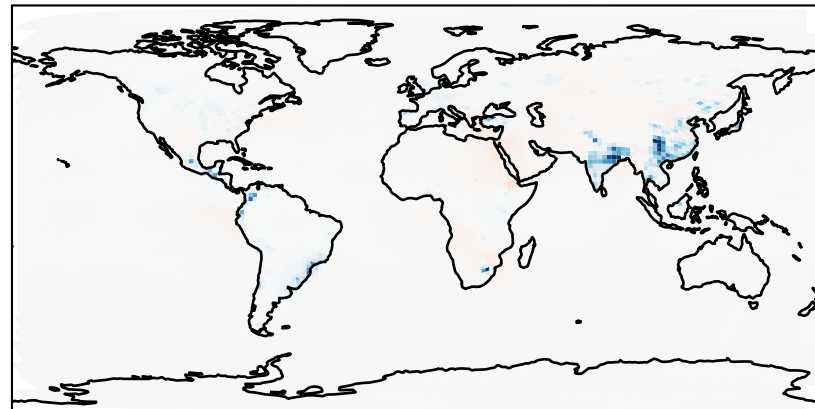


SpeciesConc_NH4

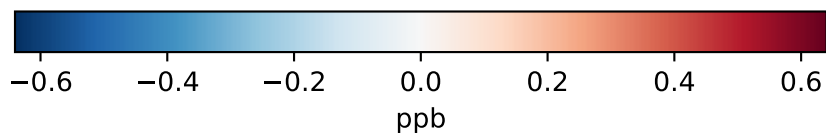
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



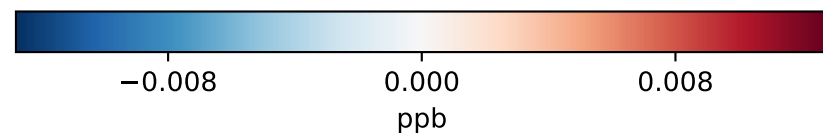
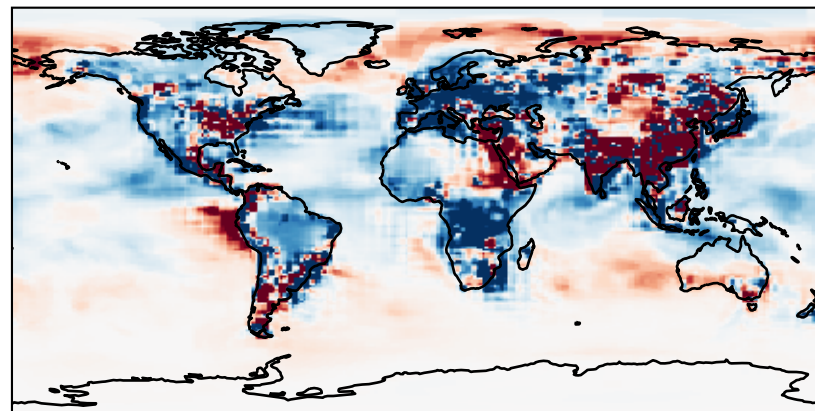
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



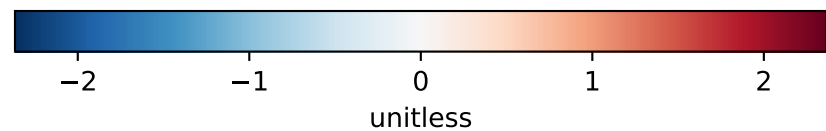
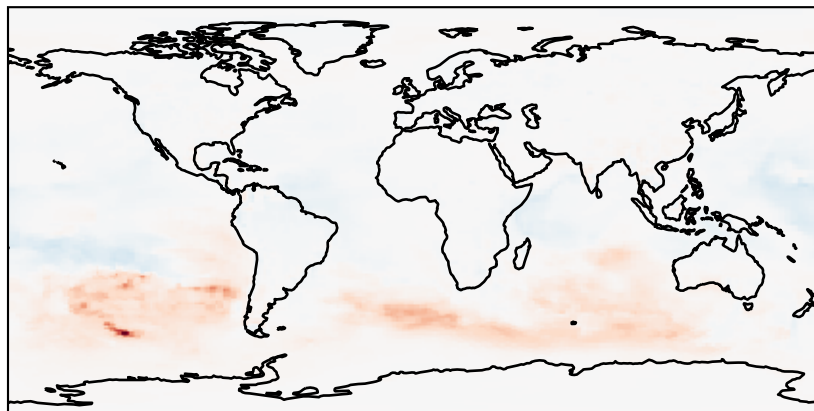
Difference (1x1.25)
Dev - Ref, Dynamic Range



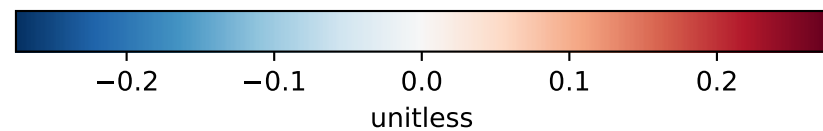
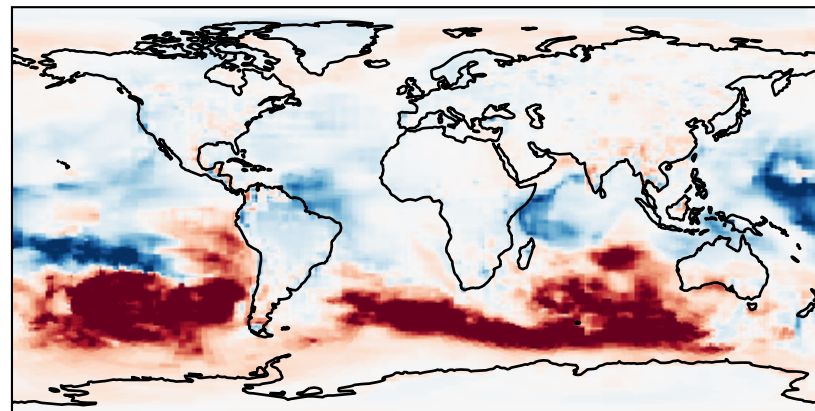
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

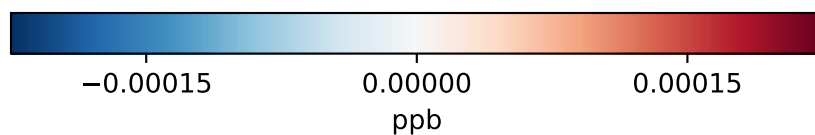
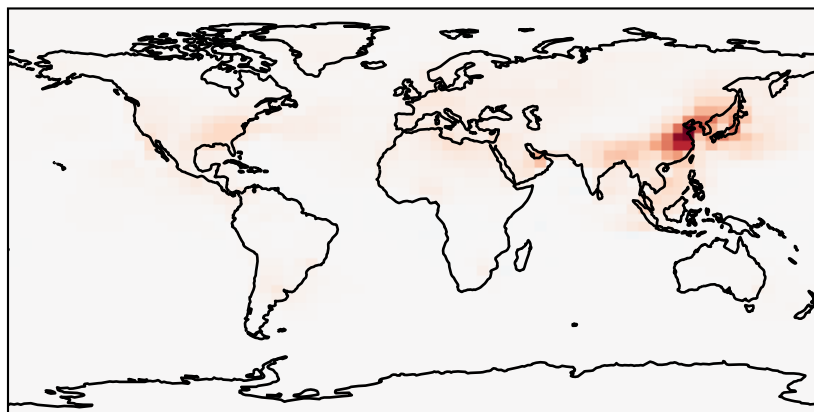


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

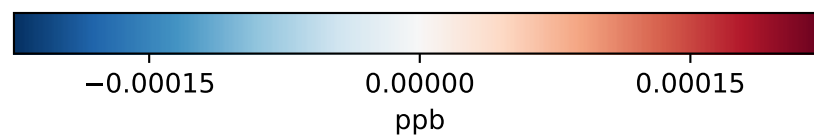
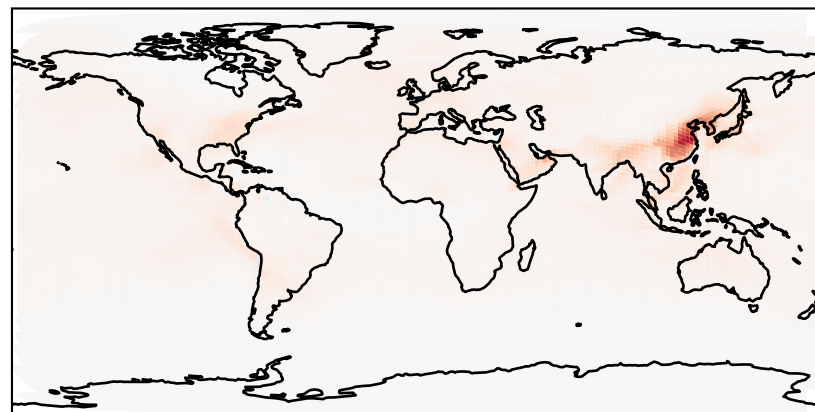


SpeciesConc_MENO3

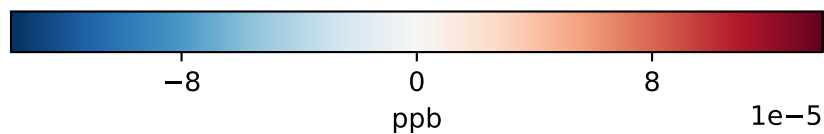
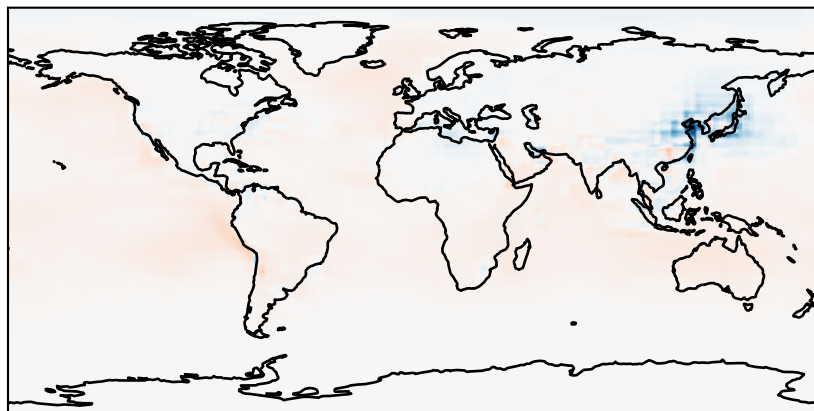
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



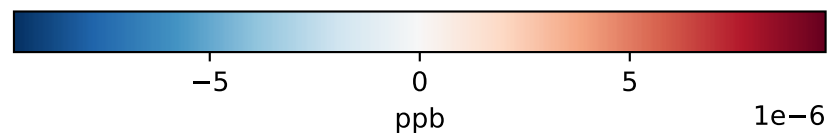
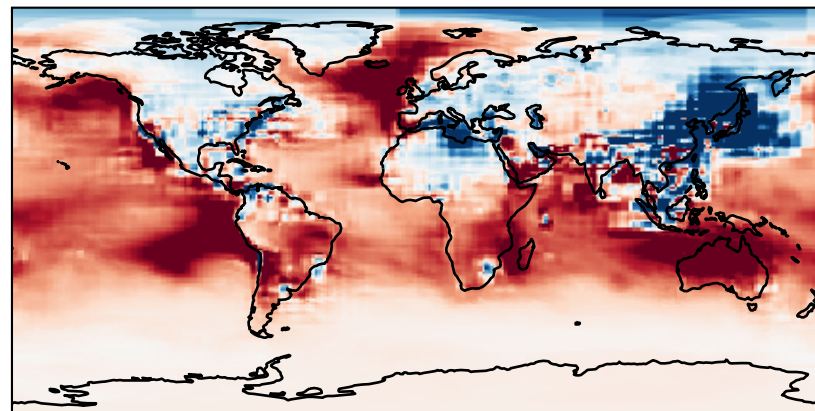
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



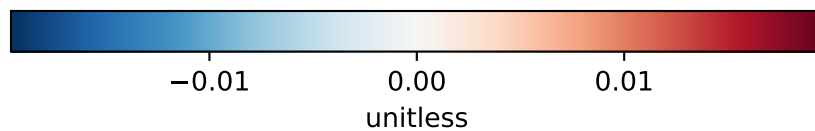
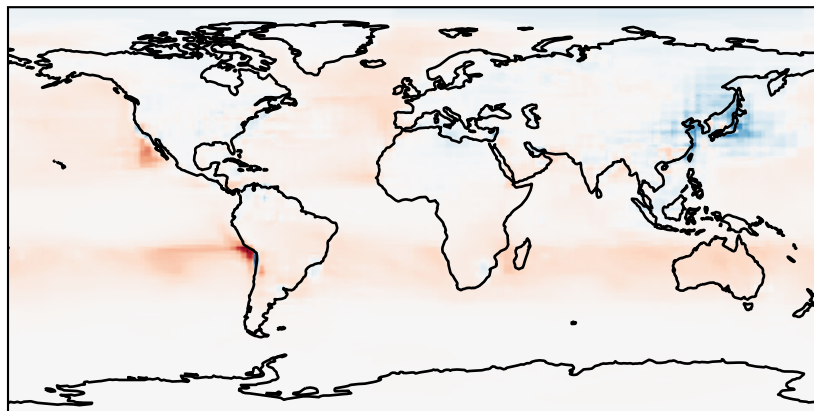
Difference (1x1.25)
Dev - Ref, Dynamic Range



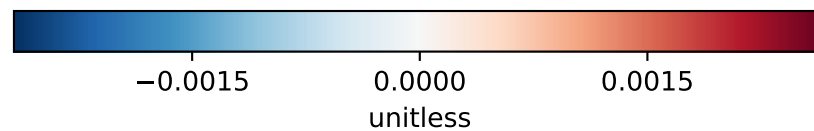
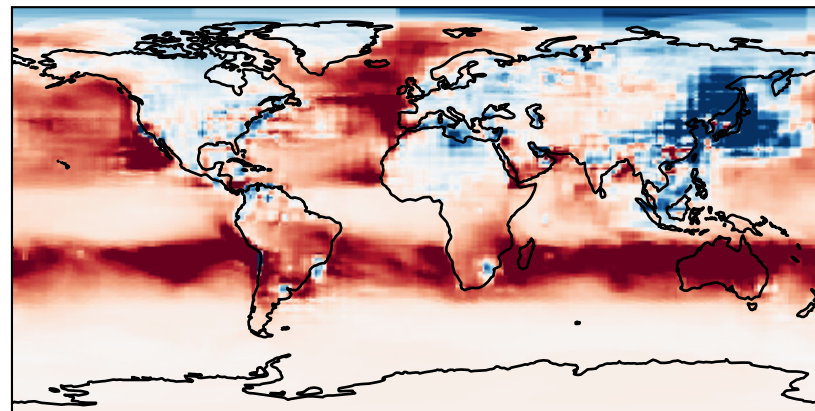
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

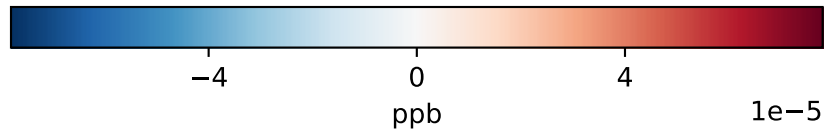
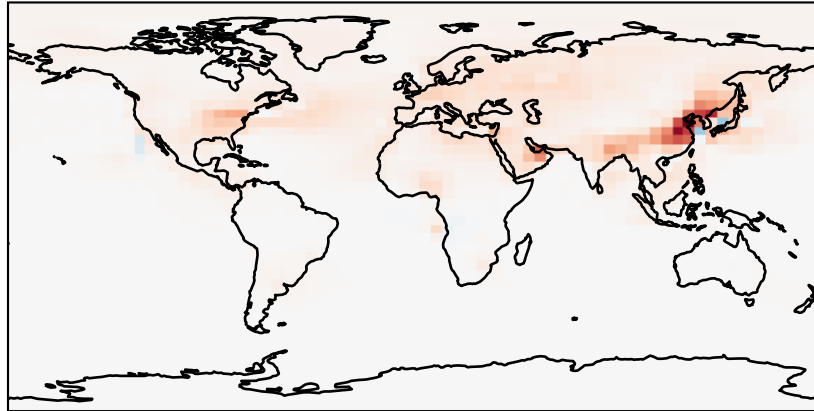


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

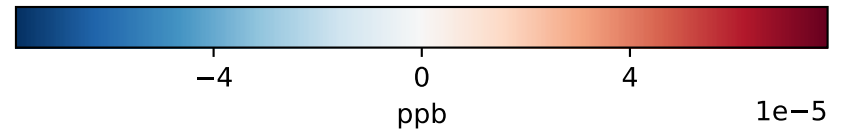
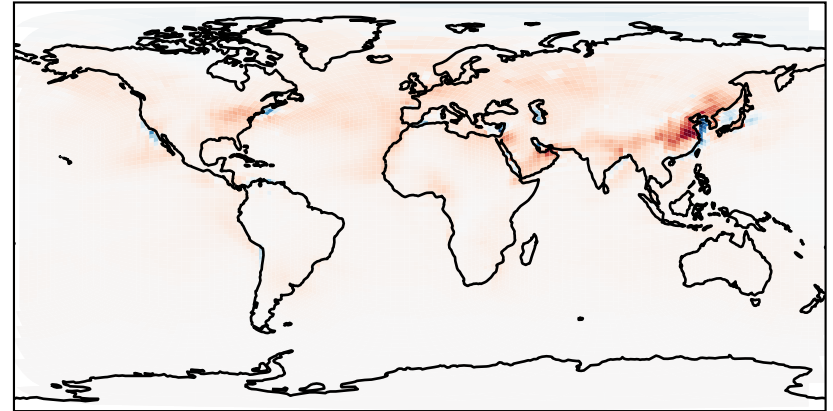


SpeciesConc_ETNO3

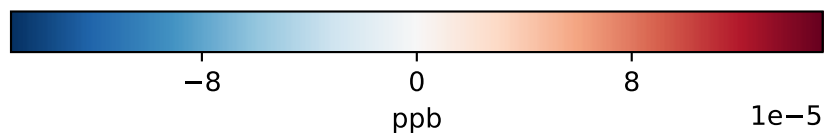
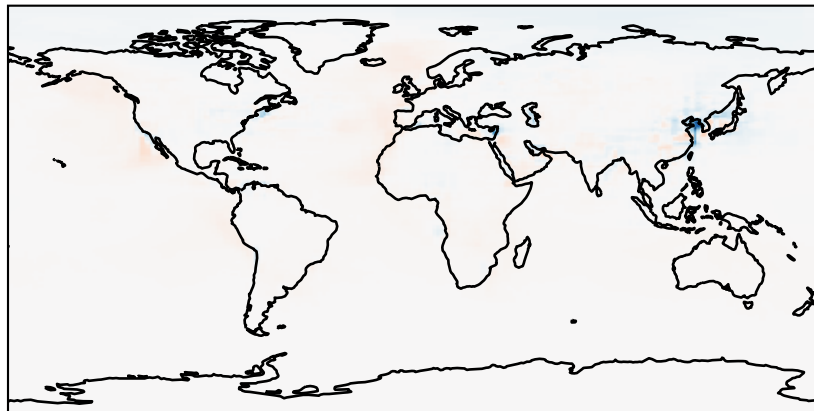
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



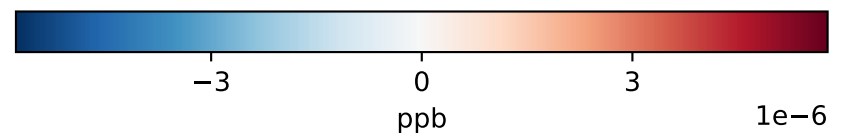
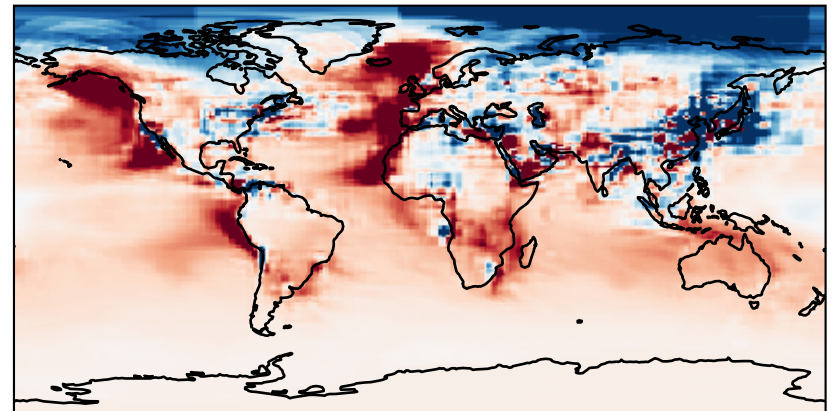
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



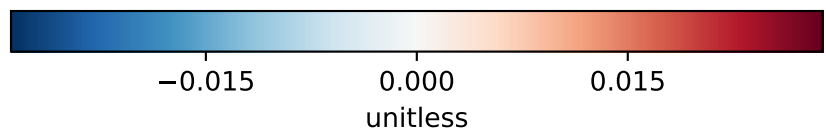
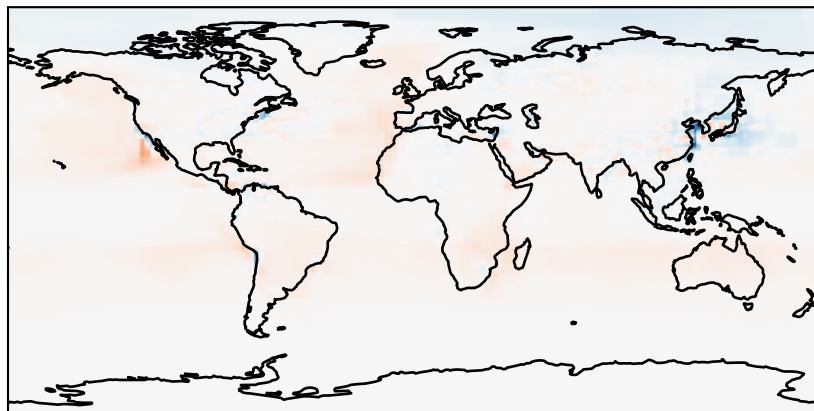
Difference (1x1.25)
Dev - Ref, Dynamic Range



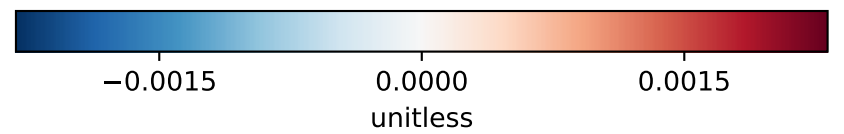
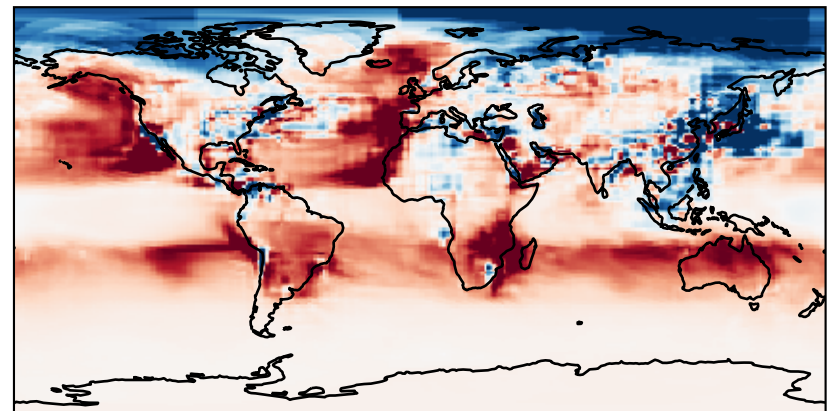
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

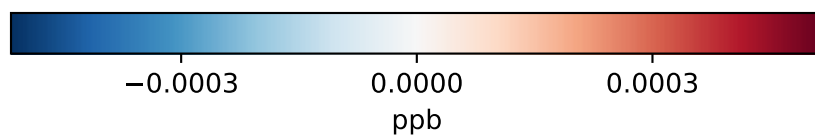
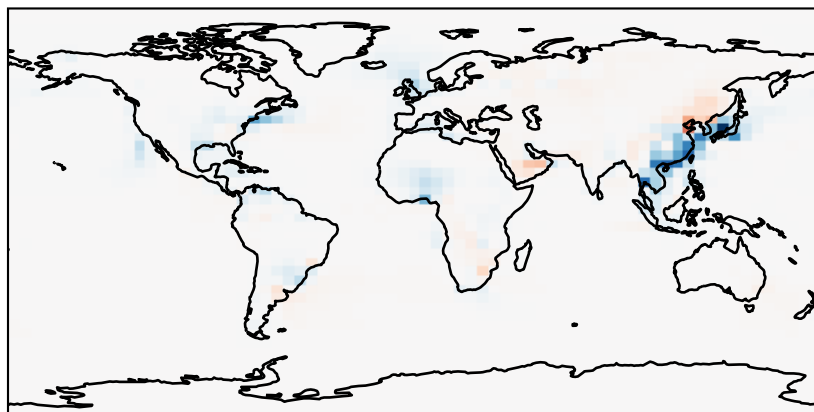


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

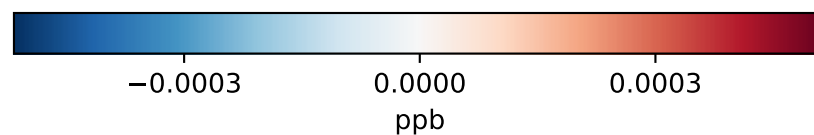
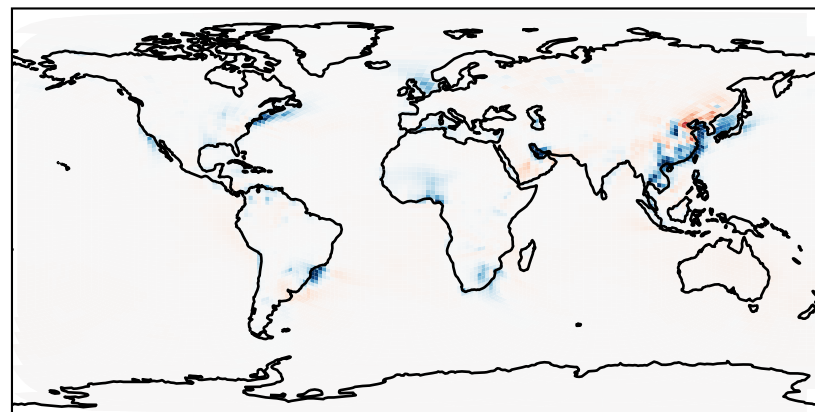


SpeciesConc_IPRNO3

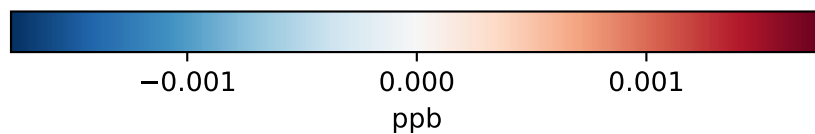
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



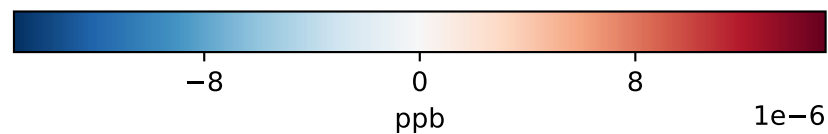
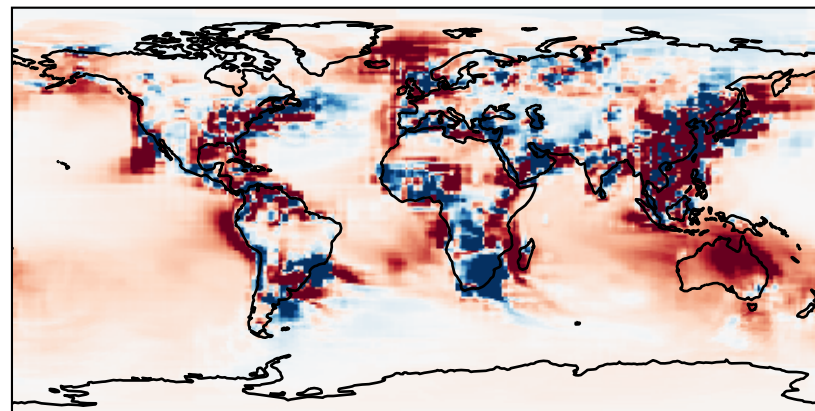
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



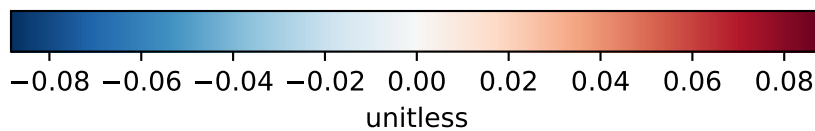
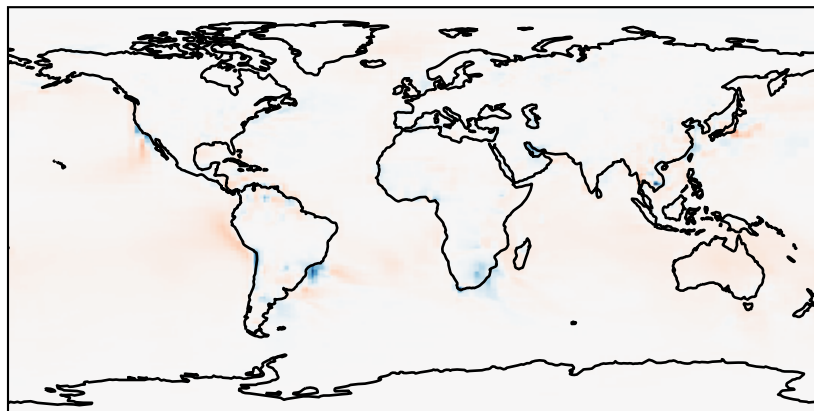
Difference (1x1.25)
Dev - Ref, Dynamic Range



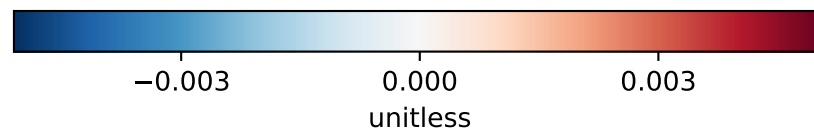
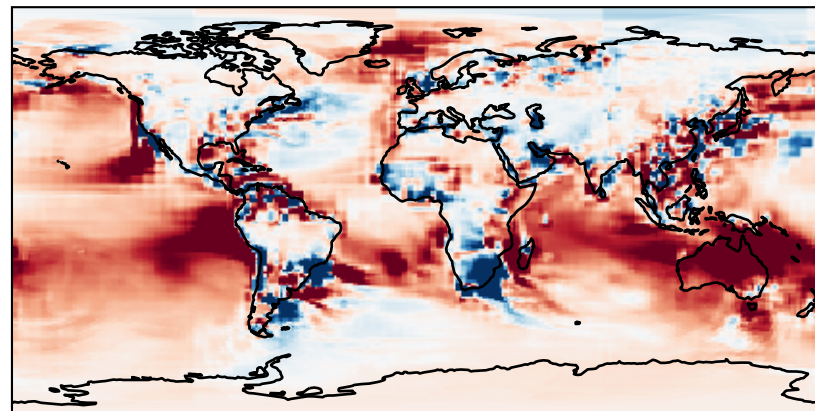
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

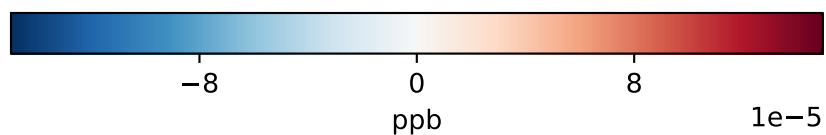
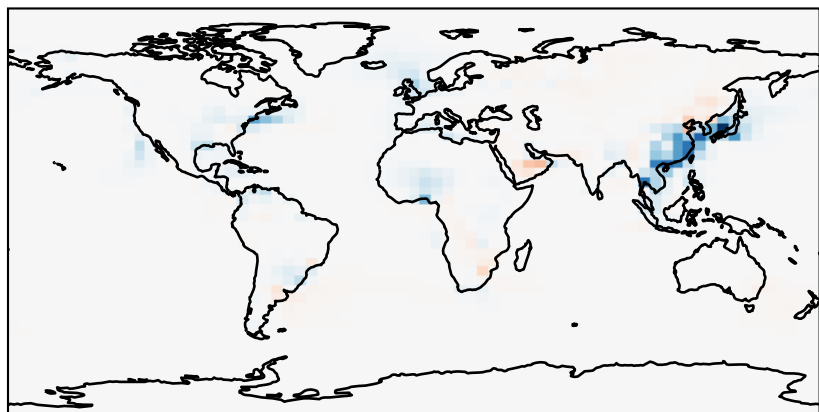


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

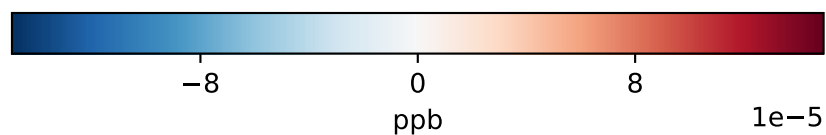
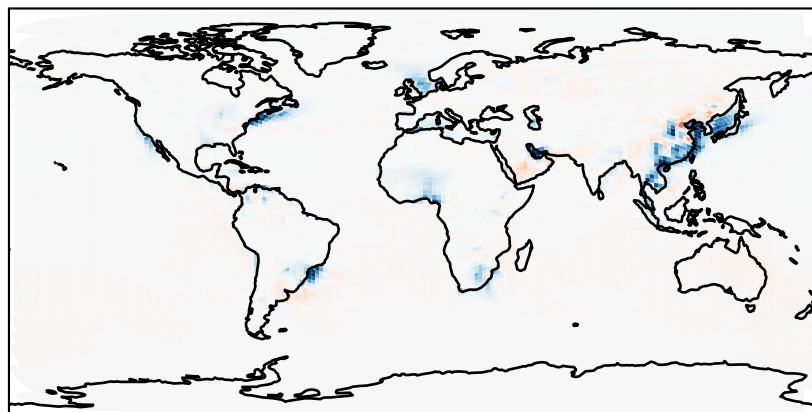


SpeciesConc_NPRNO3

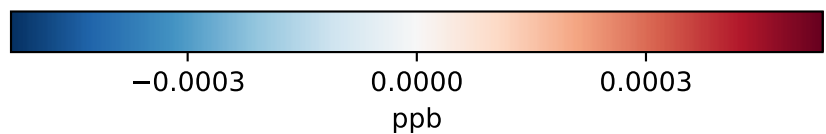
GCC_13.1.0-beta.1 - GCC_13.0.0-rc.2 (Ref)
4.0x5.0



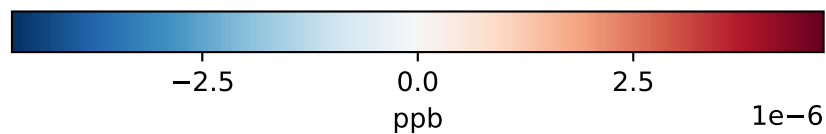
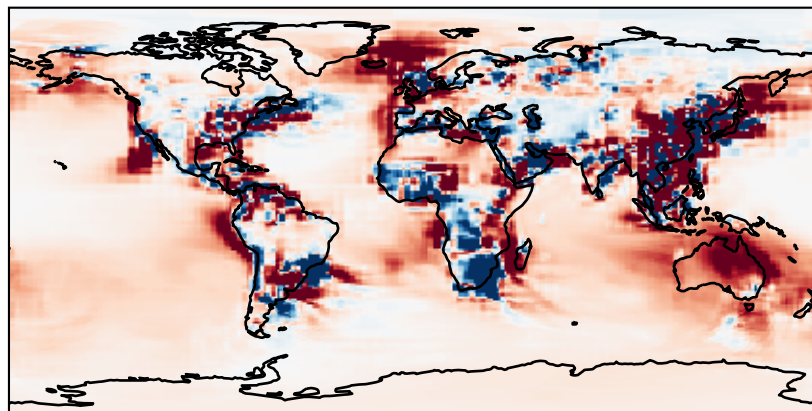
GCHP_13.1.0-beta.1 - GCHP_13.0.0-rc.2 (Dev)
c48



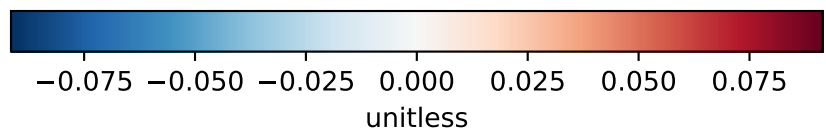
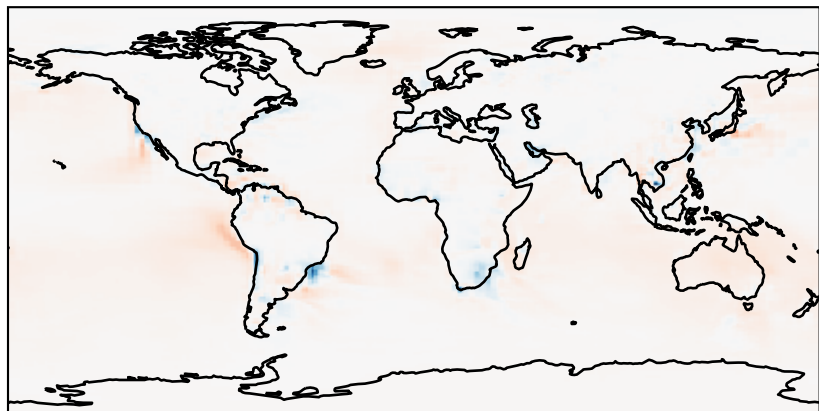
Difference (1x1.25)
Dev - Ref, Dynamic Range



Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref



Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

