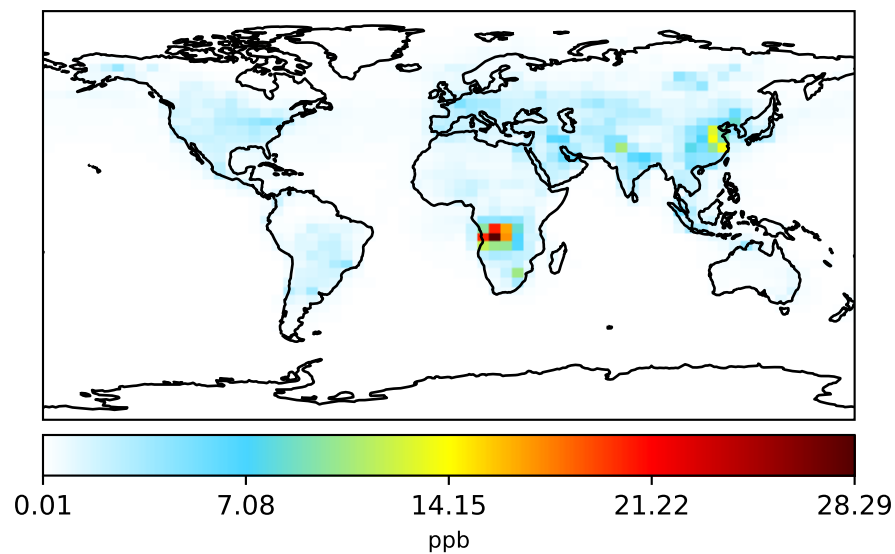
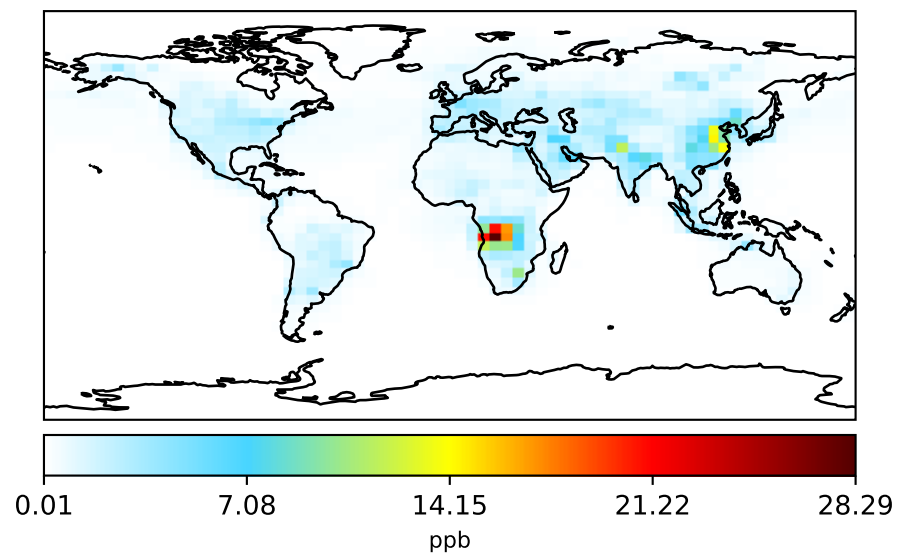


SpeciesConcVV_NOy (Jul2019)

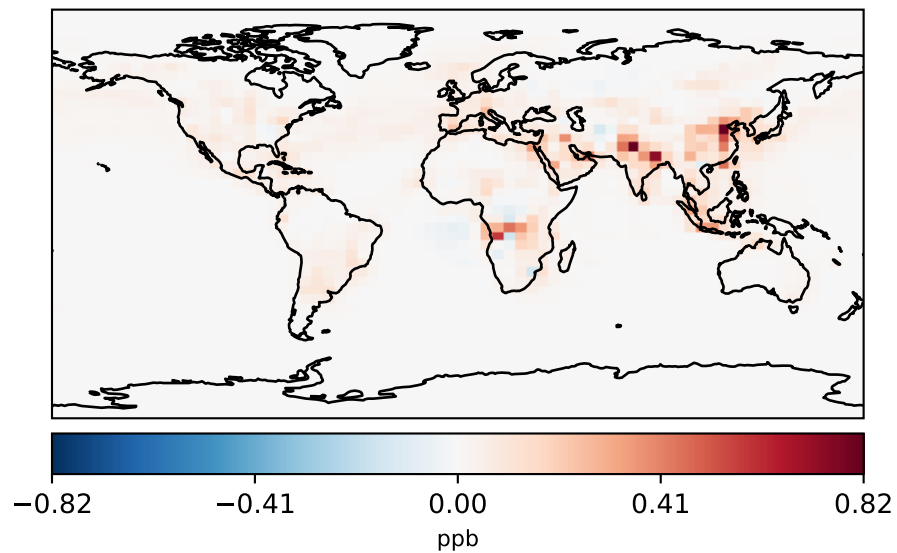
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



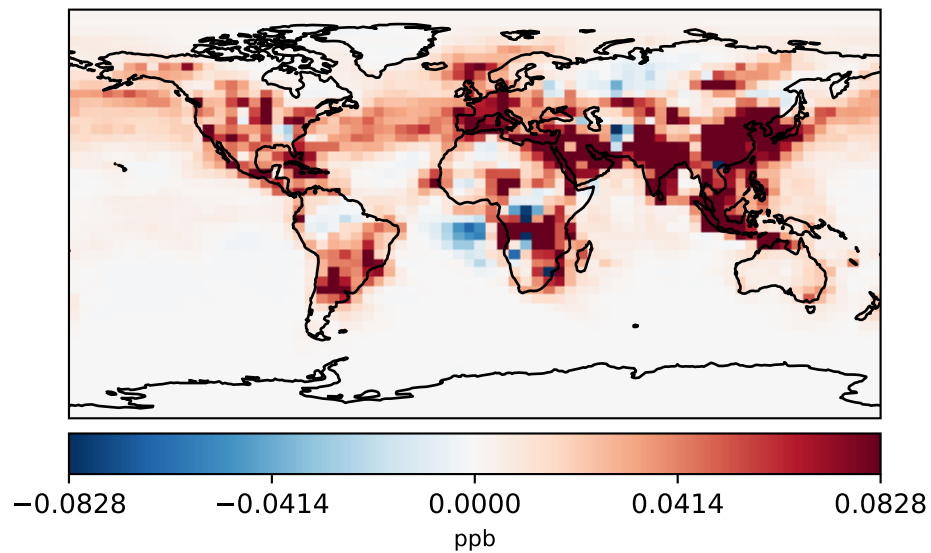
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



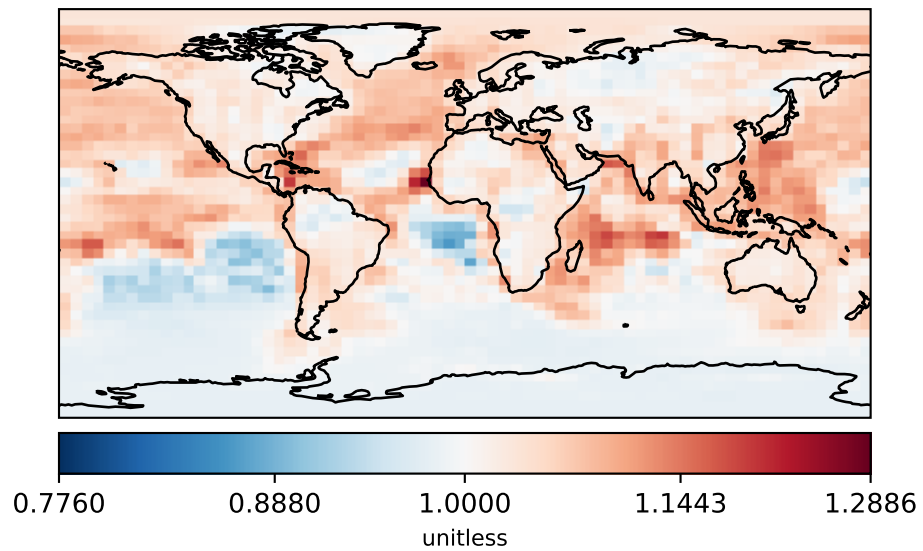
Difference
Dev - Ref, Dynamic Range



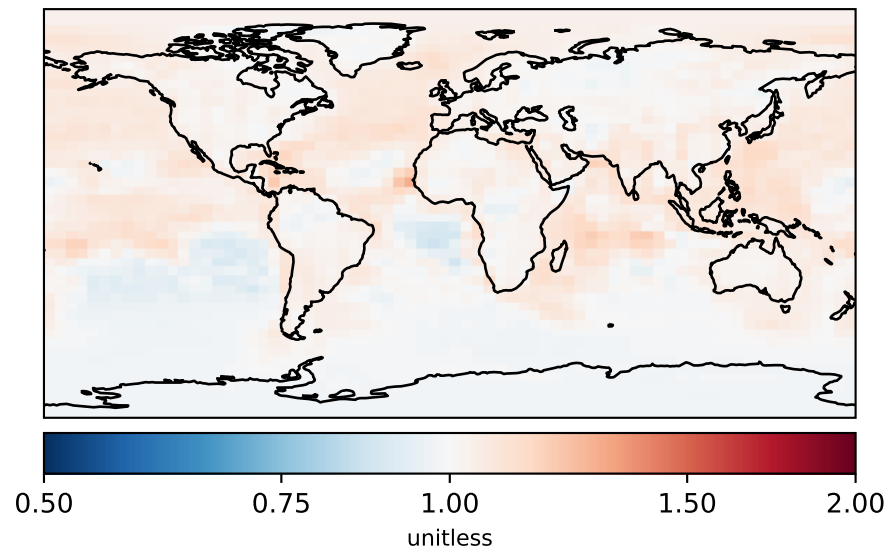
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

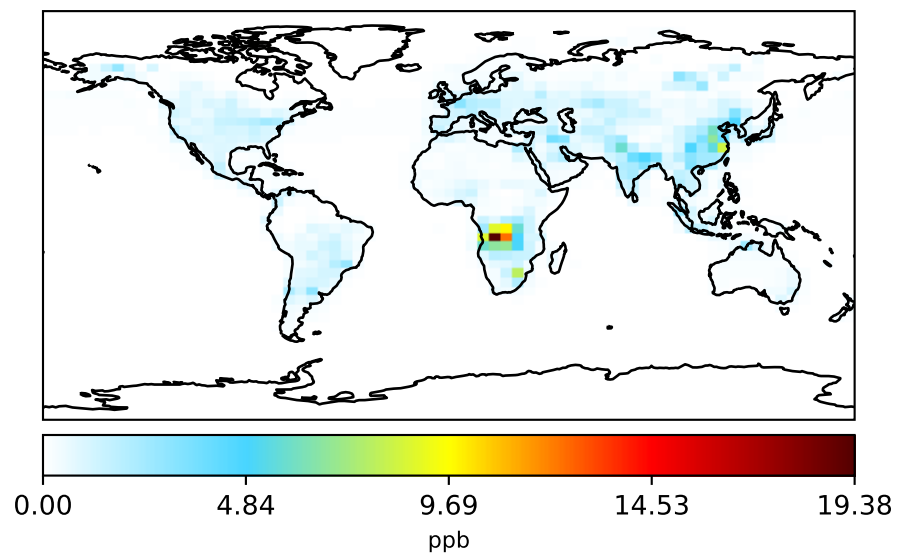


Ratio
Dev/Ref, Fixed Range

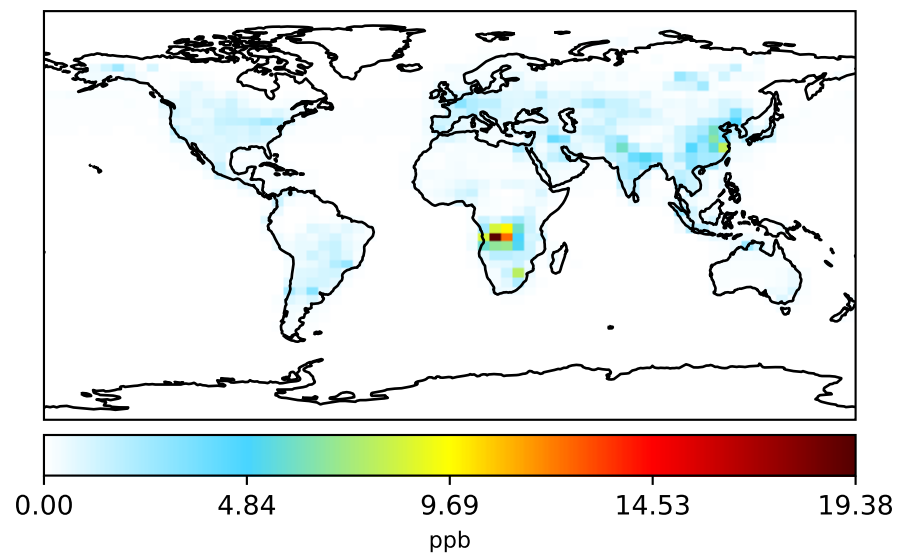


SpeciesConcVV_NOx (Jul2019)

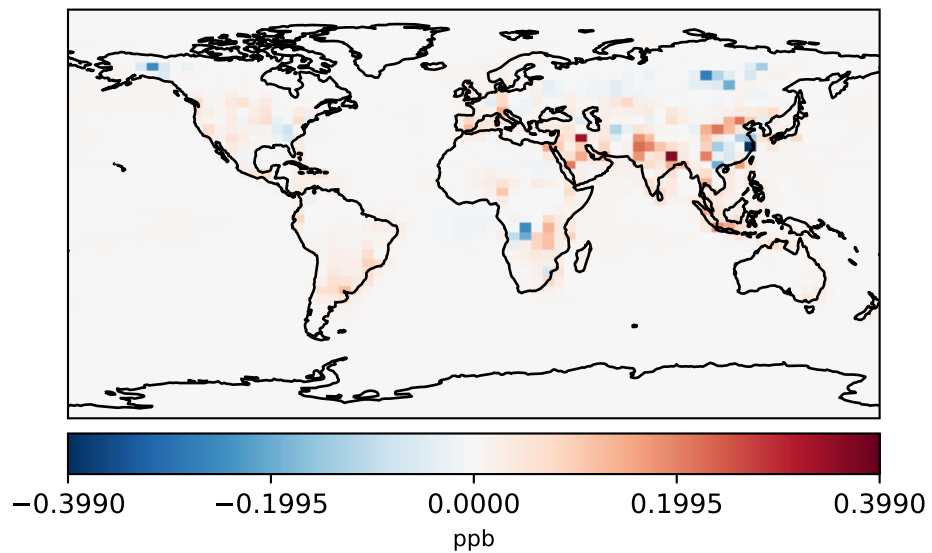
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



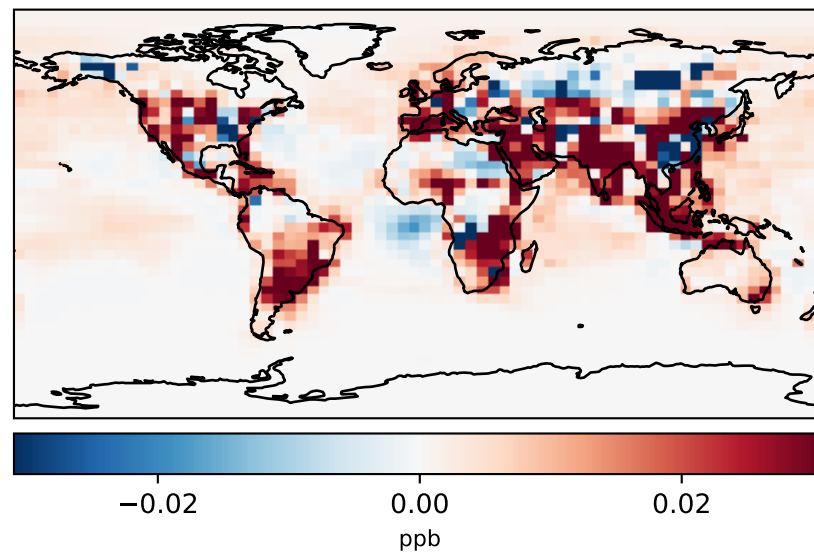
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



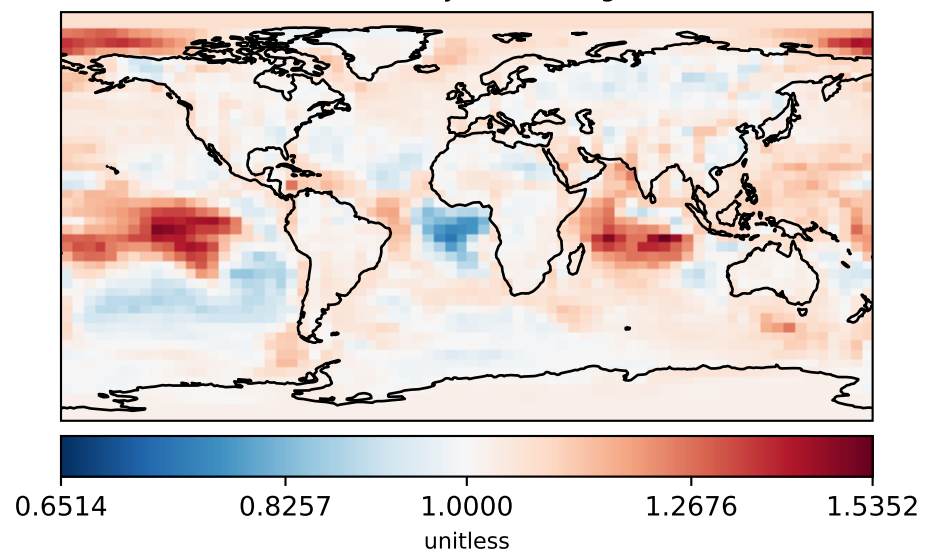
Difference
Dev - Ref, Dynamic Range



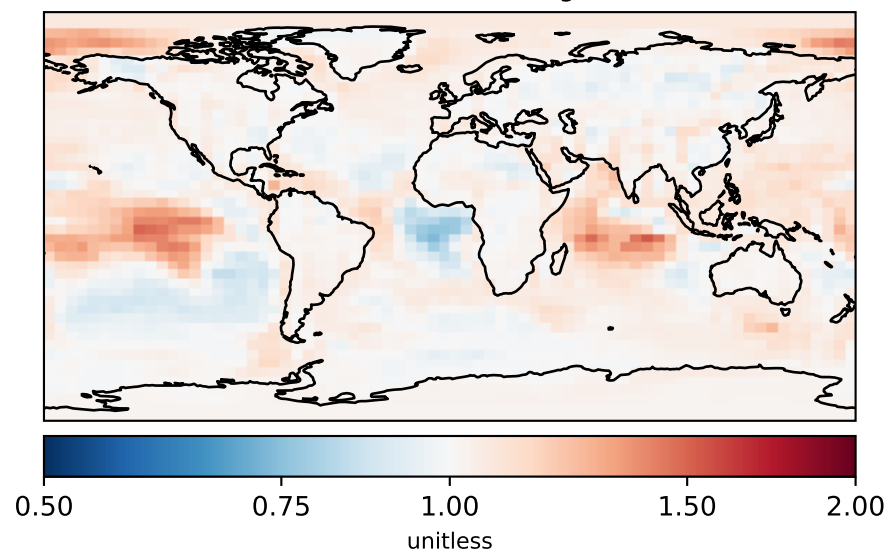
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

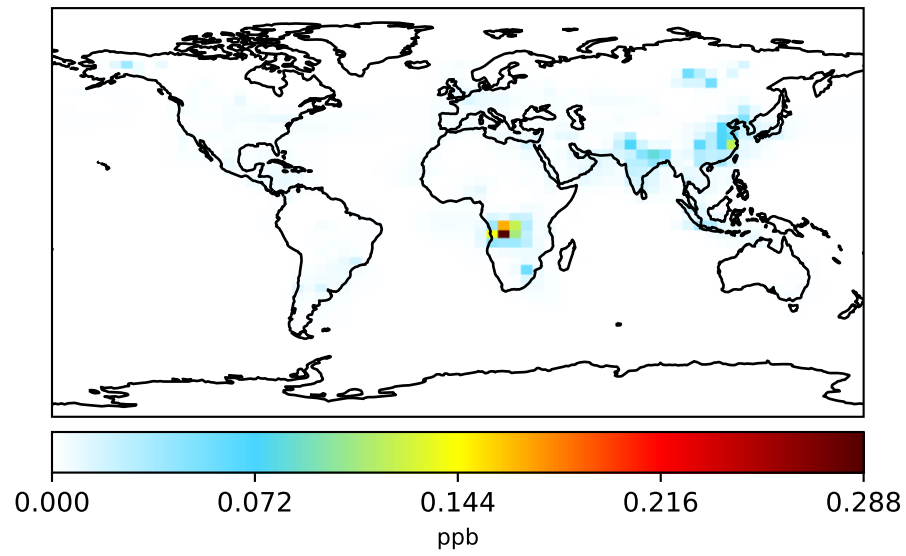


Ratio
Dev/Ref, Fixed Range

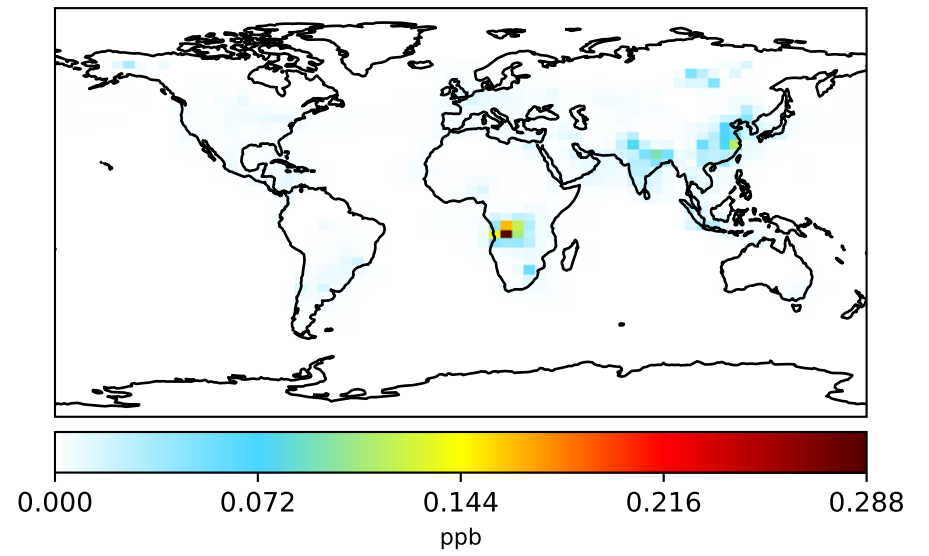


SpeciesConcVV_HNO2 (Jul2019)

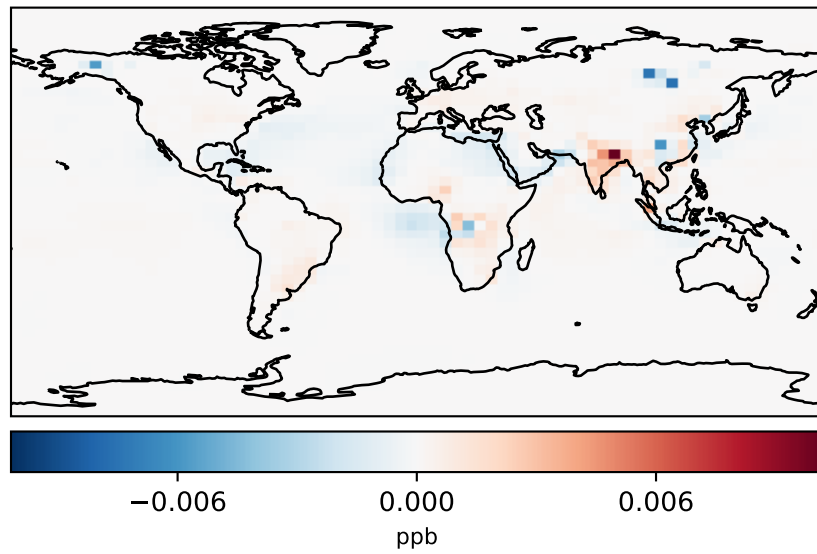
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



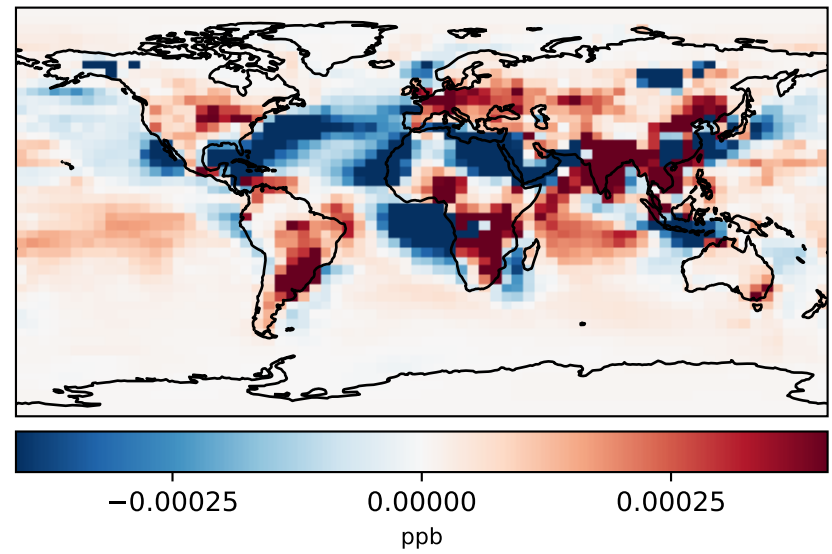
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



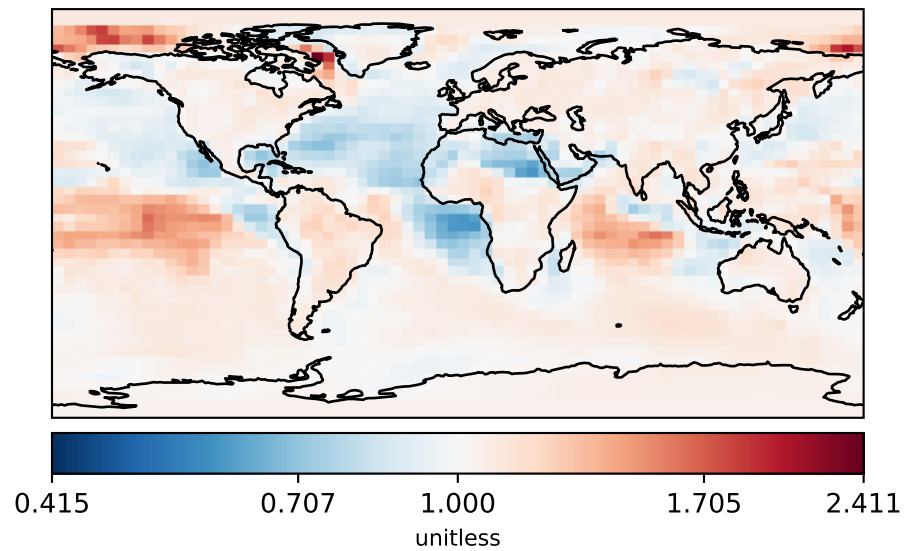
Difference
Dev - Ref, Dynamic Range



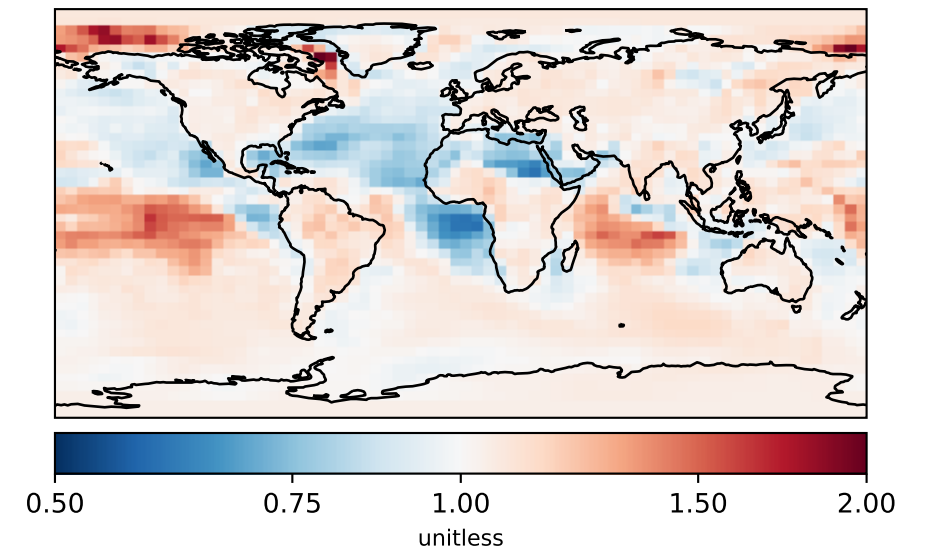
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

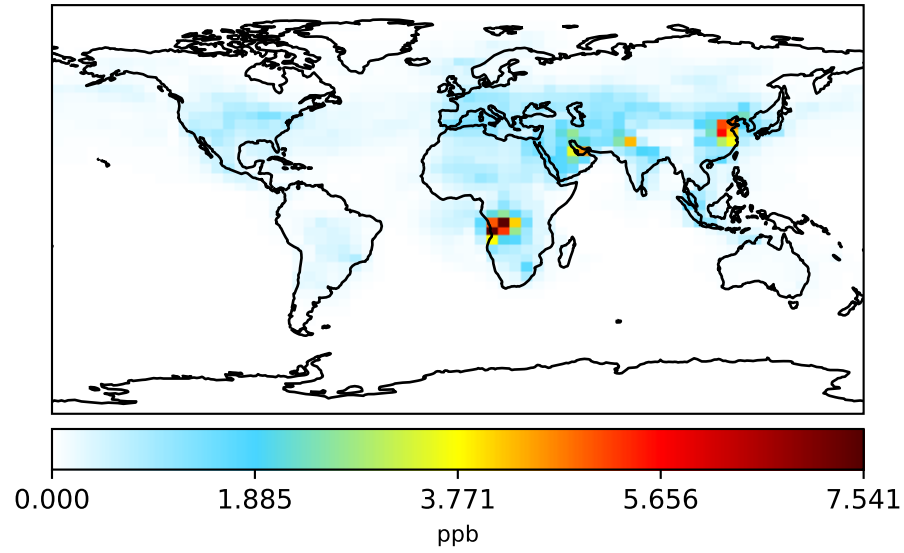


Ratio
Dev/Ref, Fixed Range

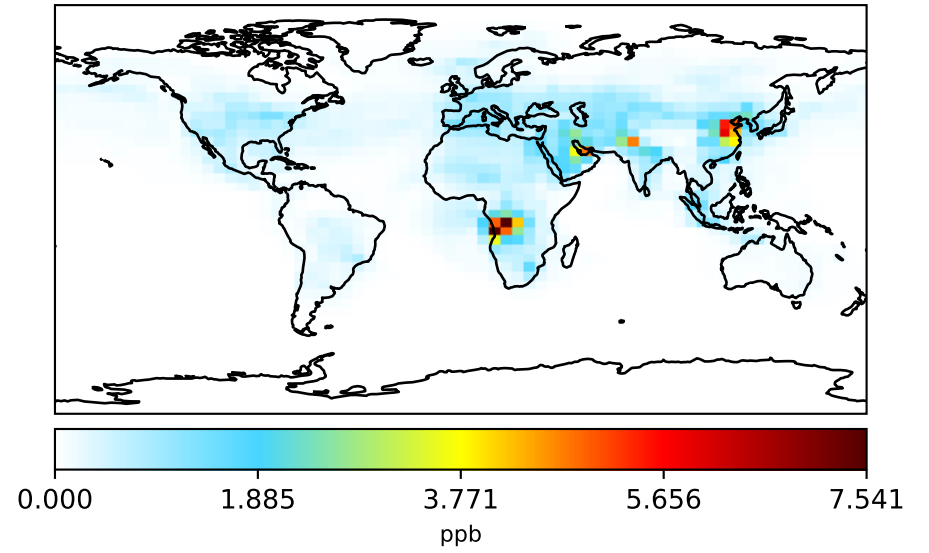


SpeciesConcVV_HNO3 (Jul2019)

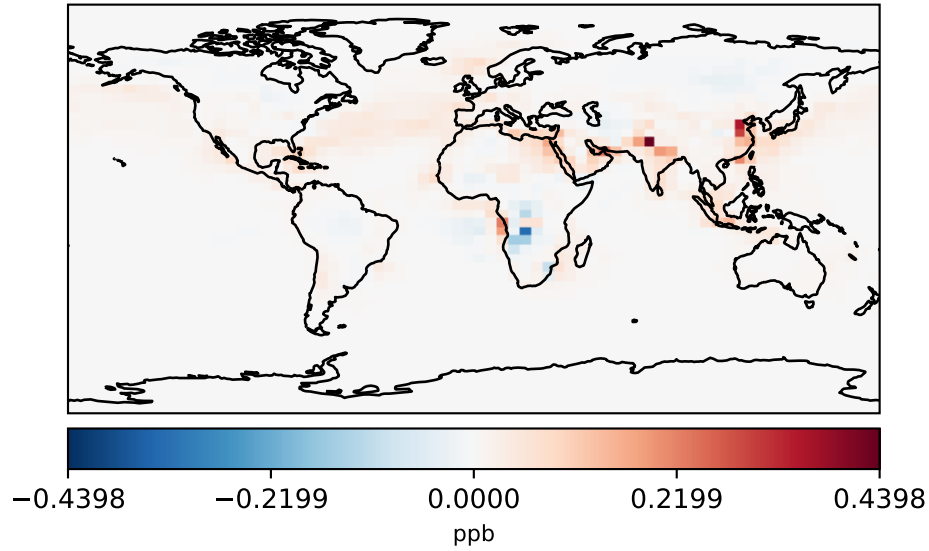
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



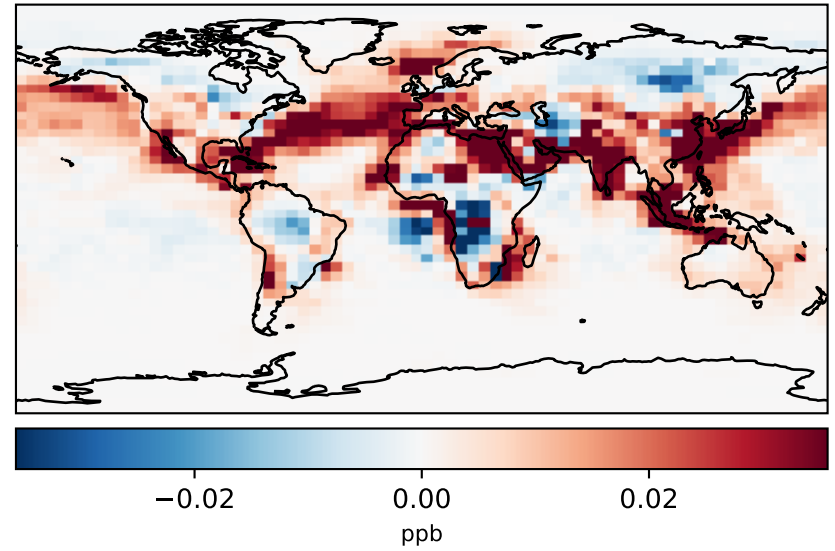
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



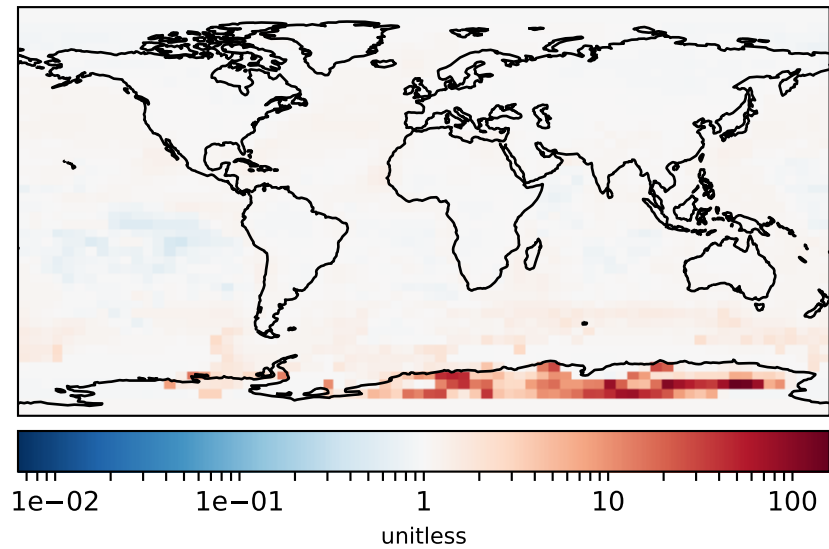
Difference
Dev - Ref, Dynamic Range



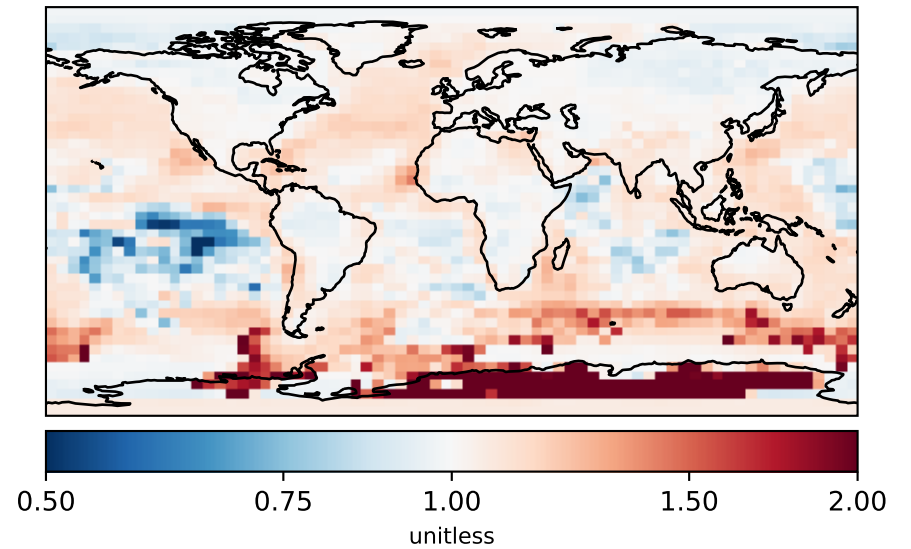
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

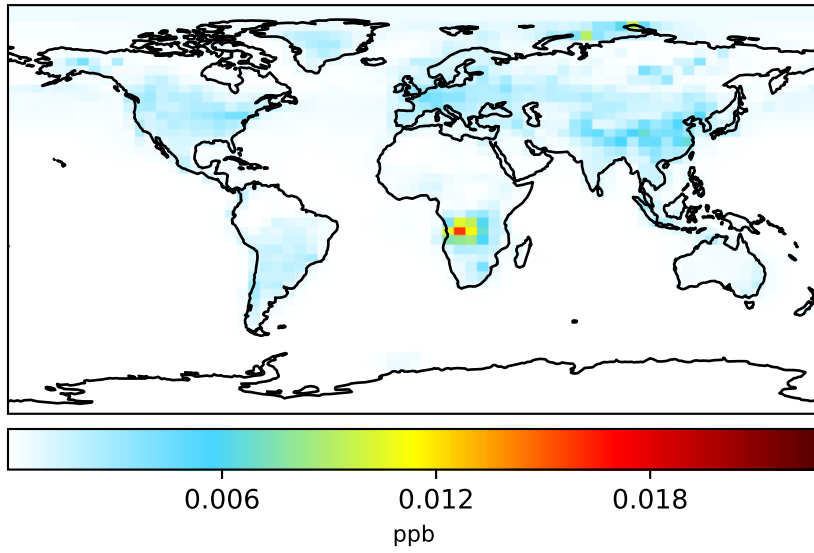


Ratio
Dev/Ref, Fixed Range

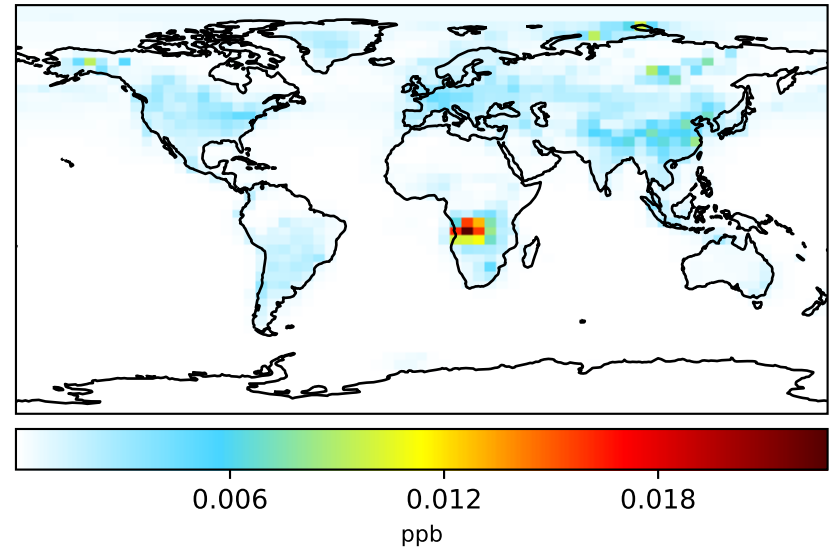


SpeciesConcVV_HNO4 (Jul2019)

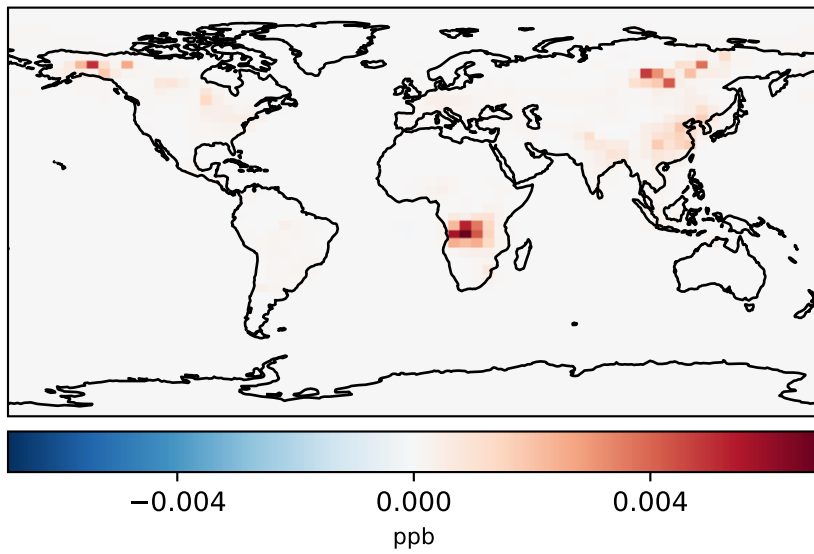
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



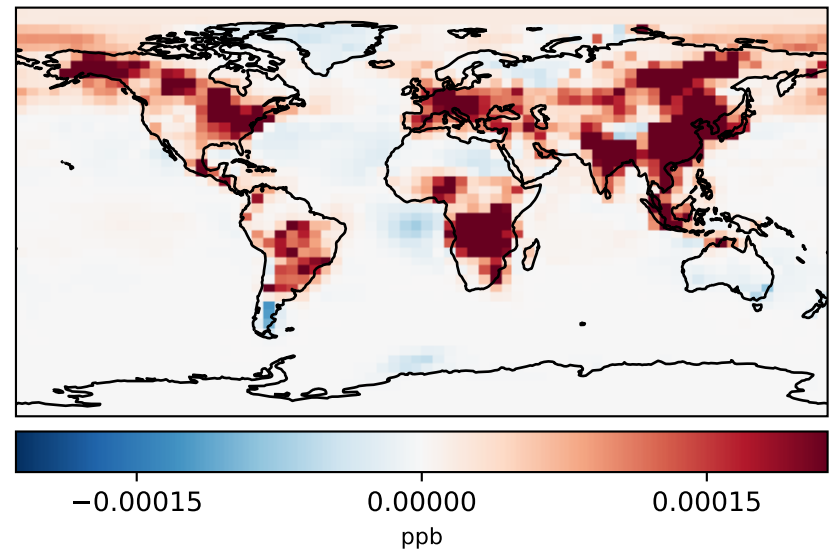
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



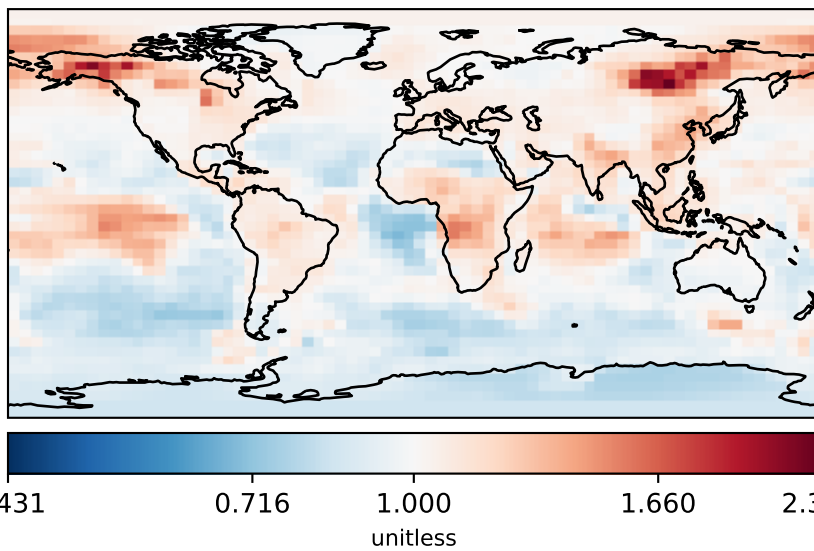
Difference
Dev - Ref, Dynamic Range



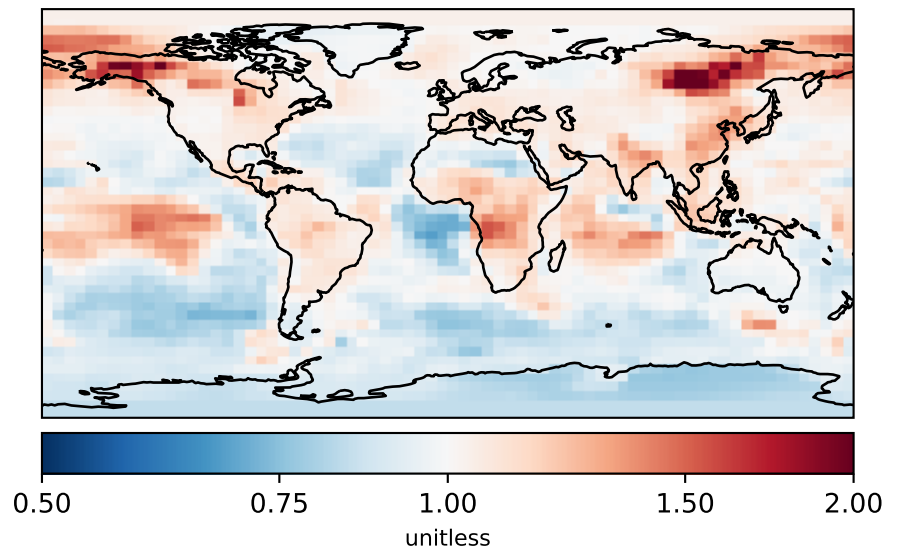
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

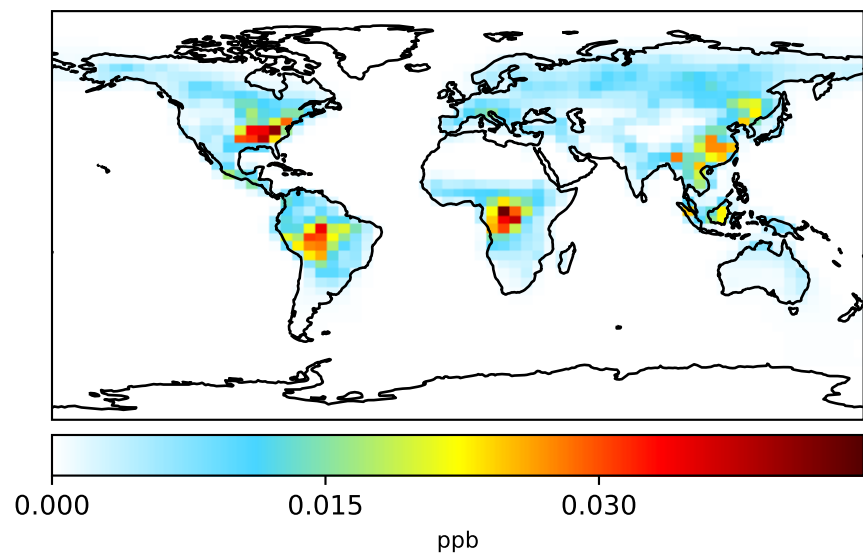


Ratio
Dev/Ref, Fixed Range

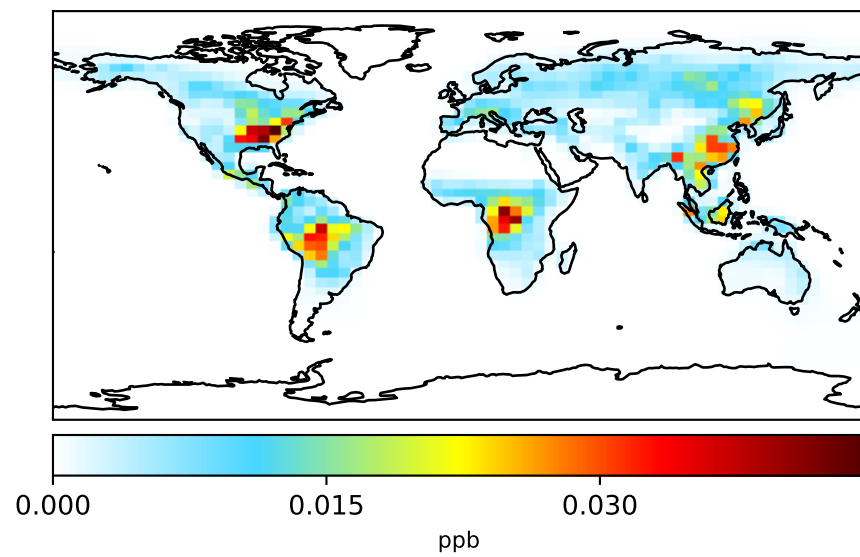


SpeciesConcVV_MPAN (Jul2019)

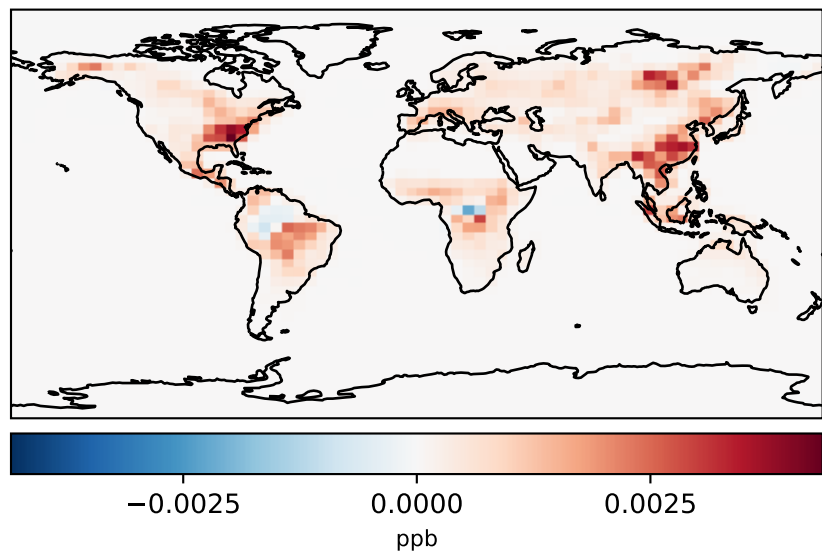
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



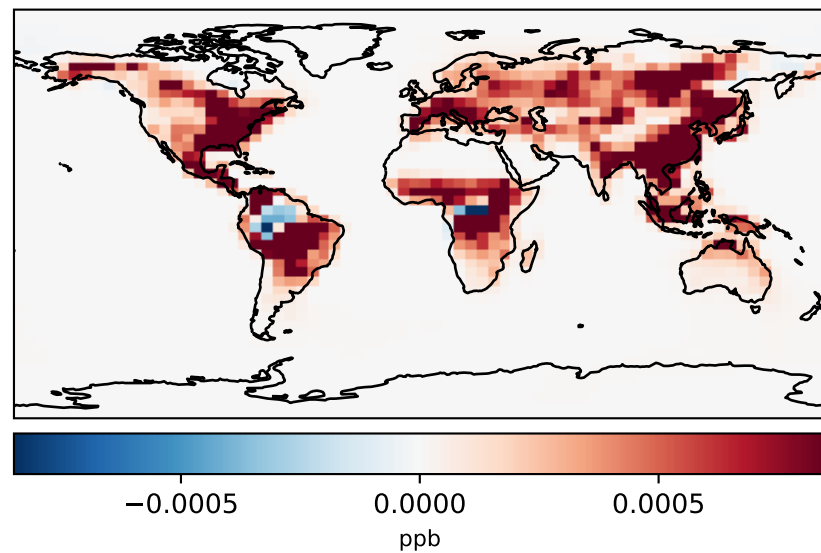
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



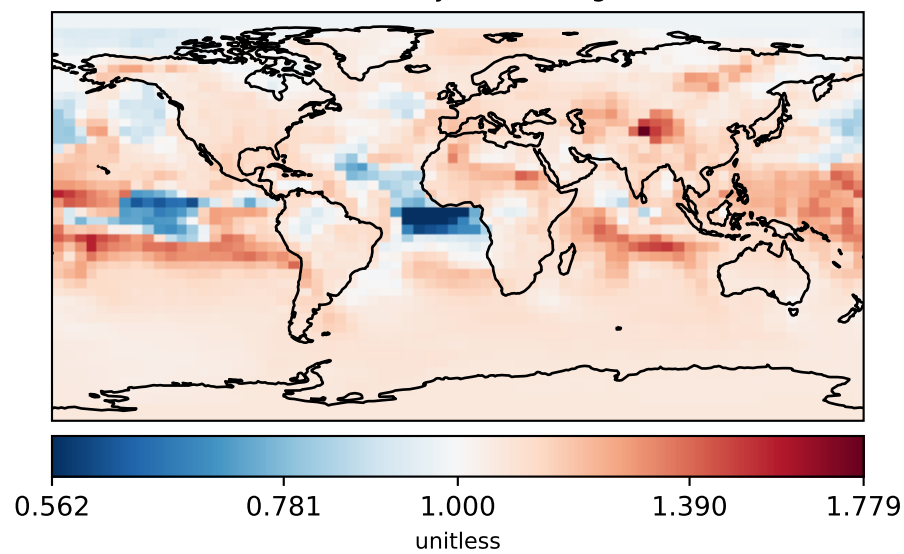
Difference
Dev - Ref, Dynamic Range



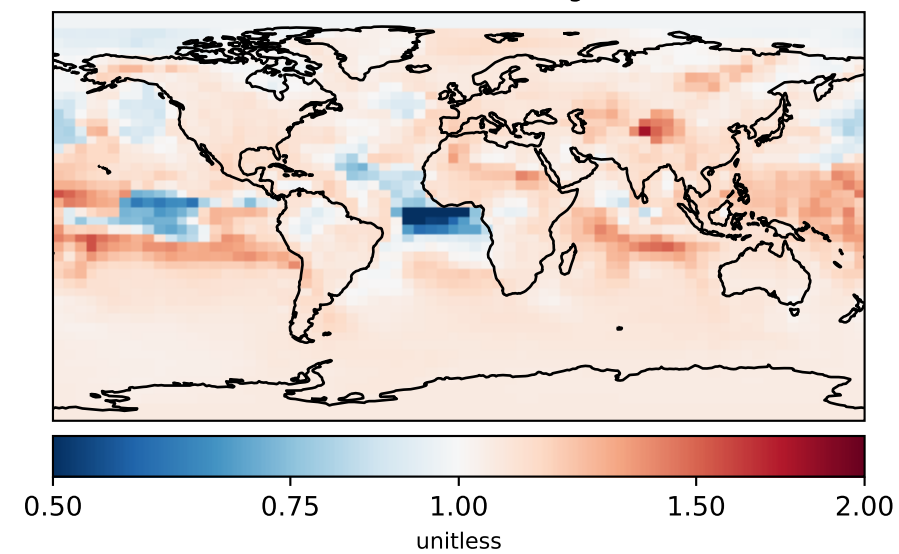
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

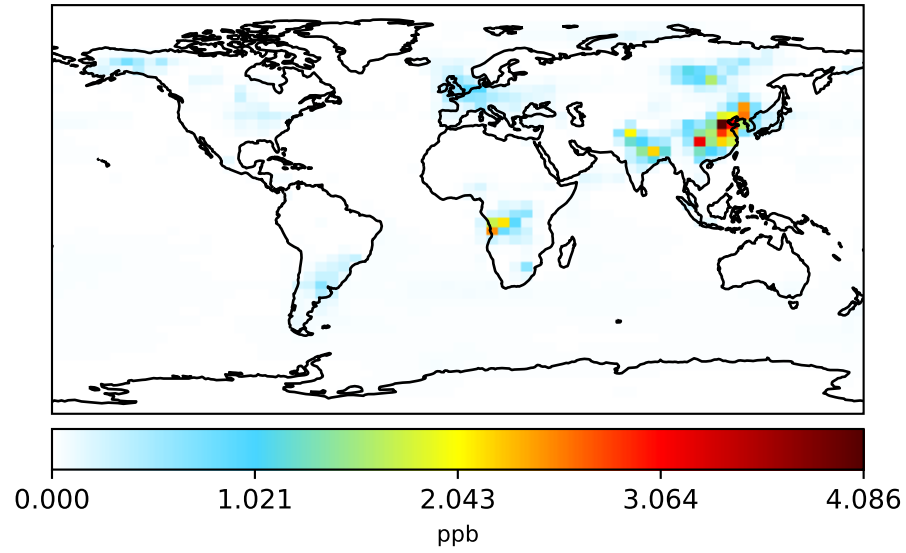


Ratio
Dev/Ref, Fixed Range

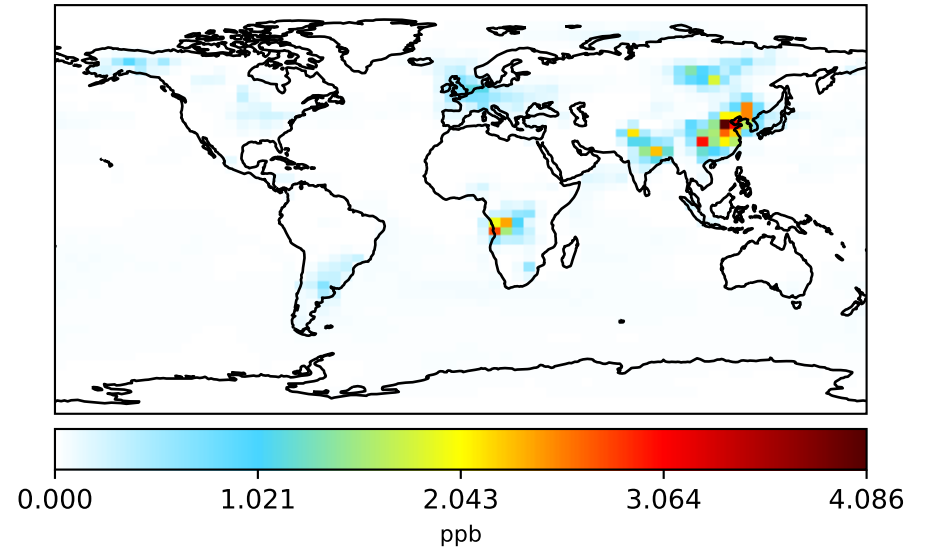


SpeciesConcVV_NIT (Jul2019)

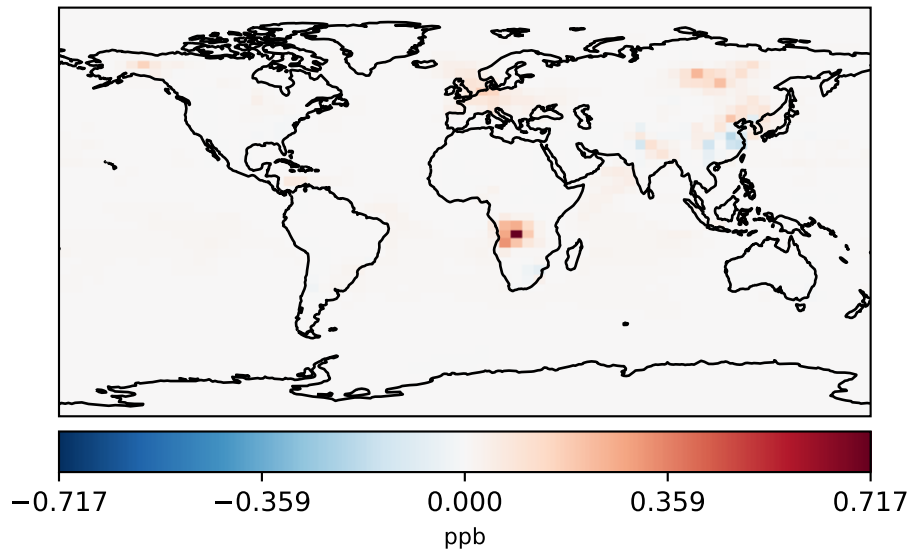
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



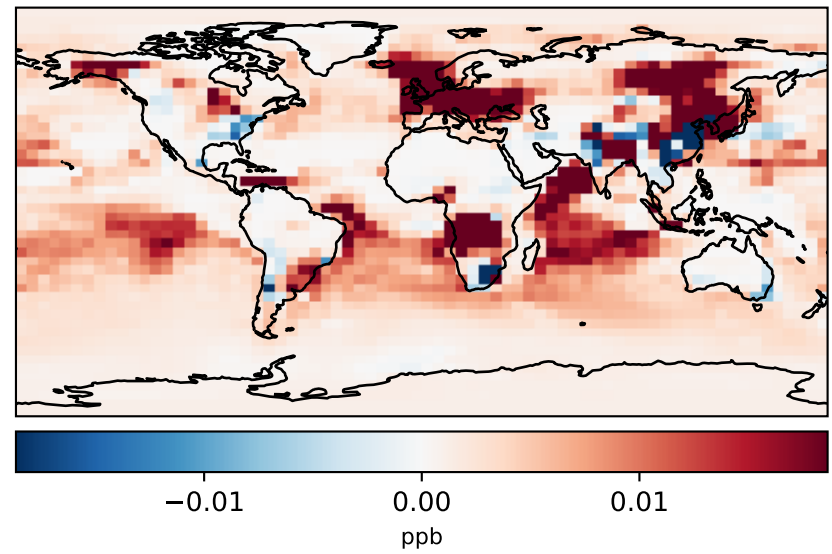
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



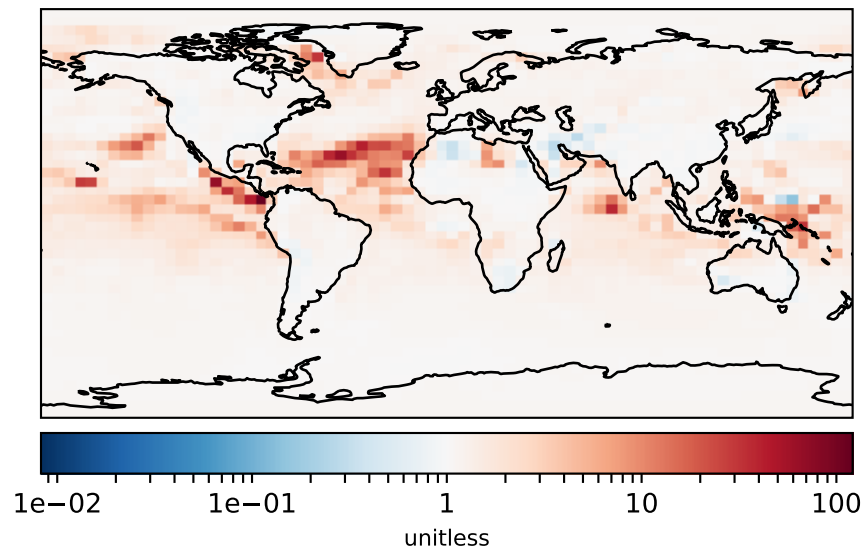
Difference
Dev - Ref, Dynamic Range



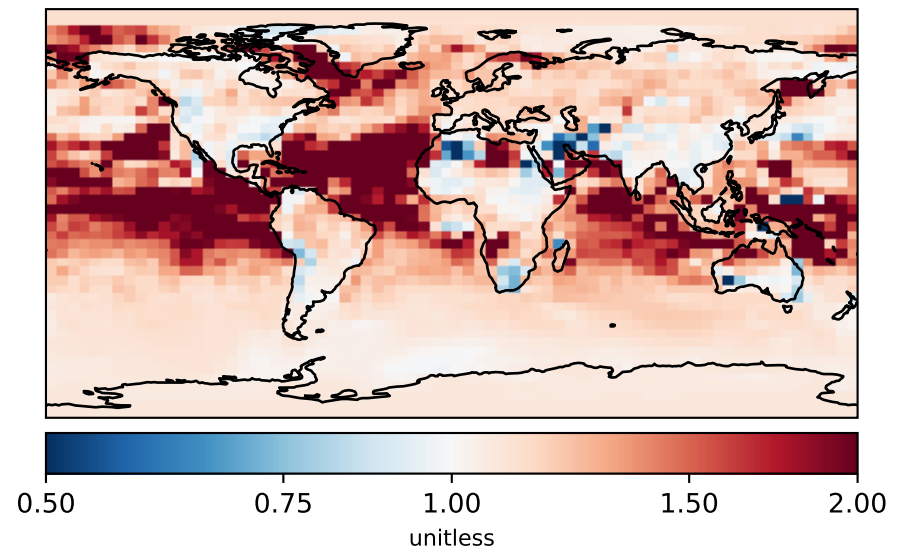
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

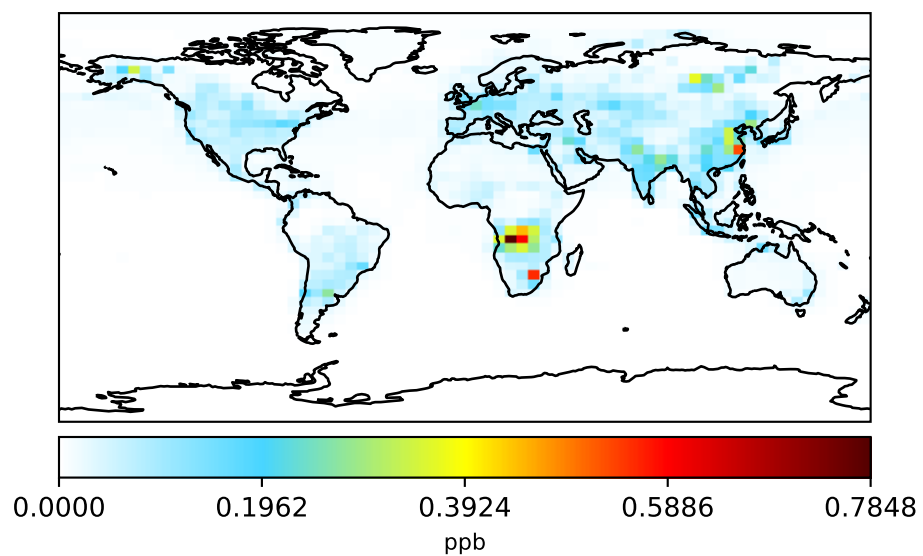


Ratio
Dev/Ref, Fixed Range

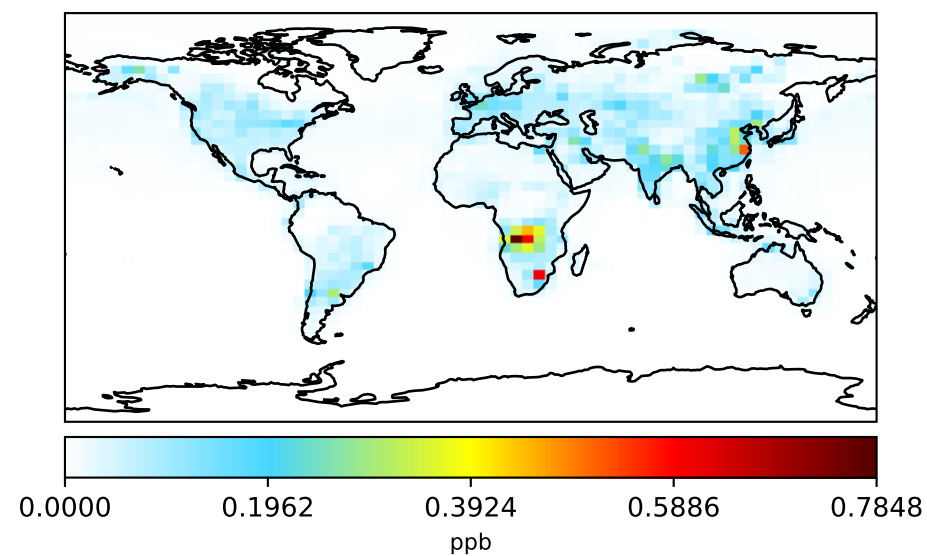


SpeciesConcVV_NO (Jul2019)

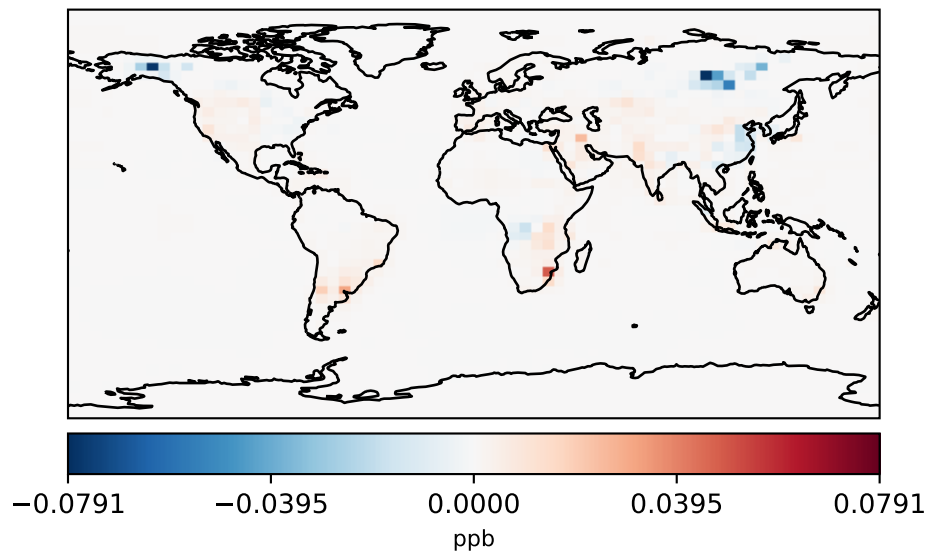
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



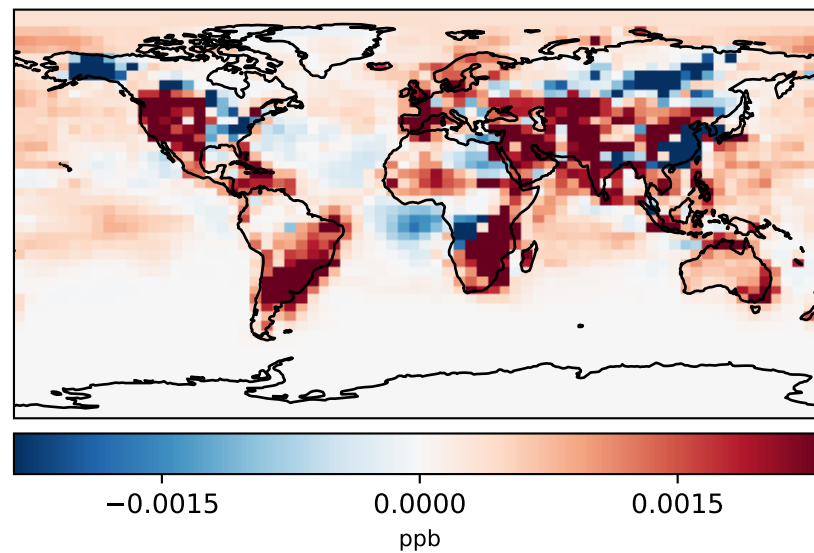
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



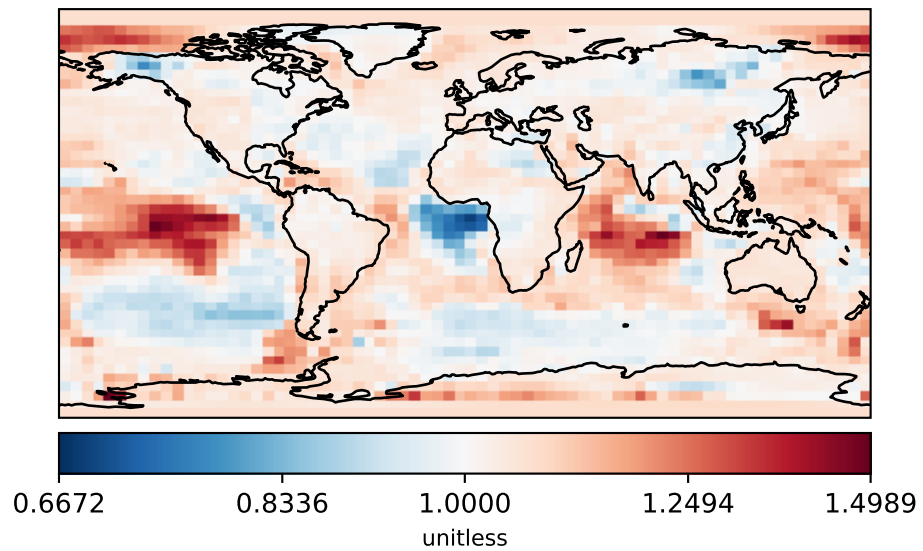
Difference
Dev - Ref, Dynamic Range



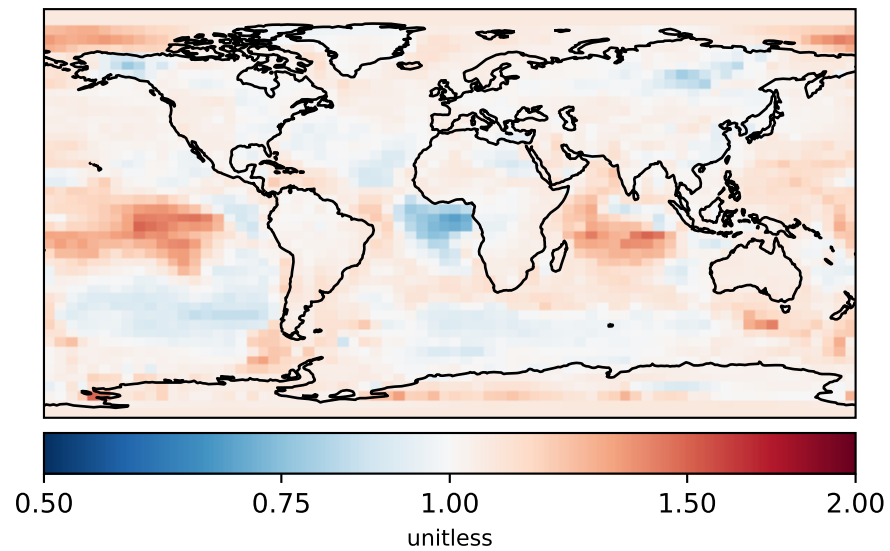
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

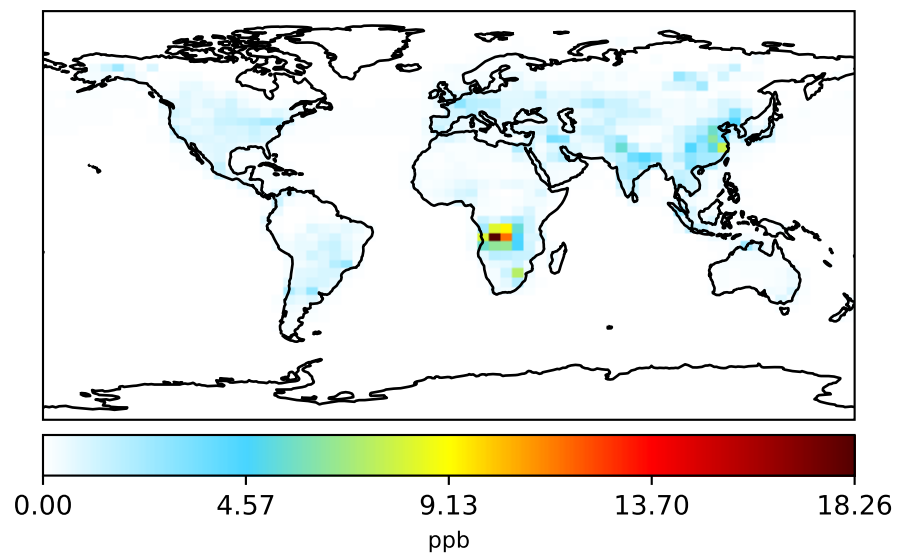


Ratio
Dev/Ref, Fixed Range

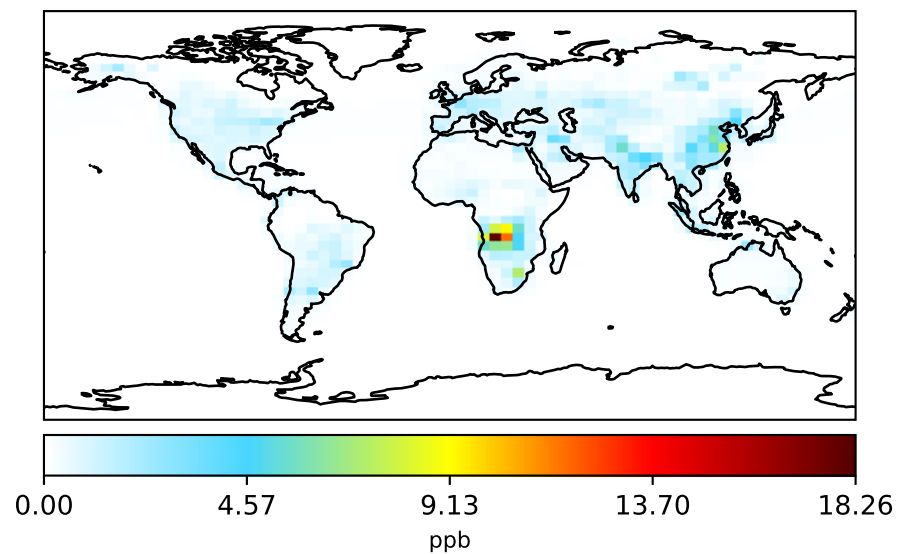


SpeciesConcVV_NO2 (Jul2019)

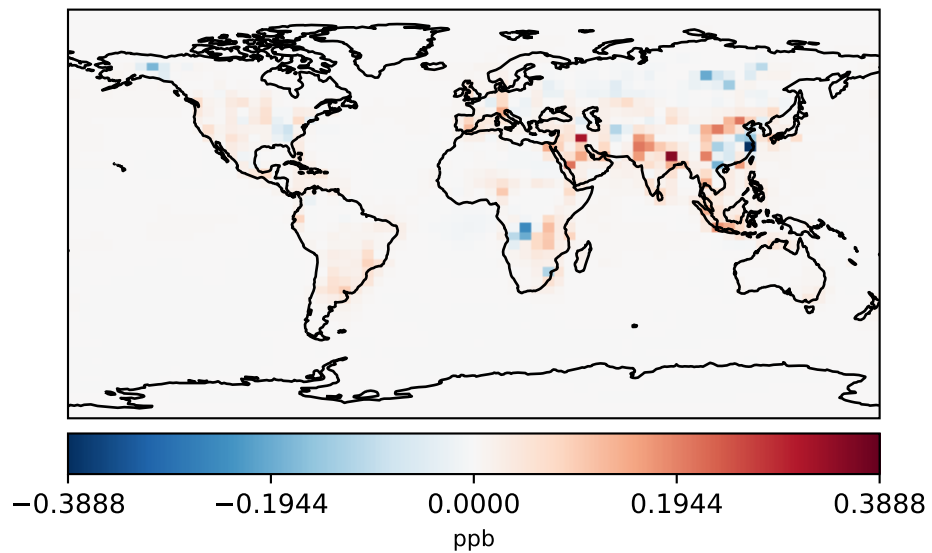
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



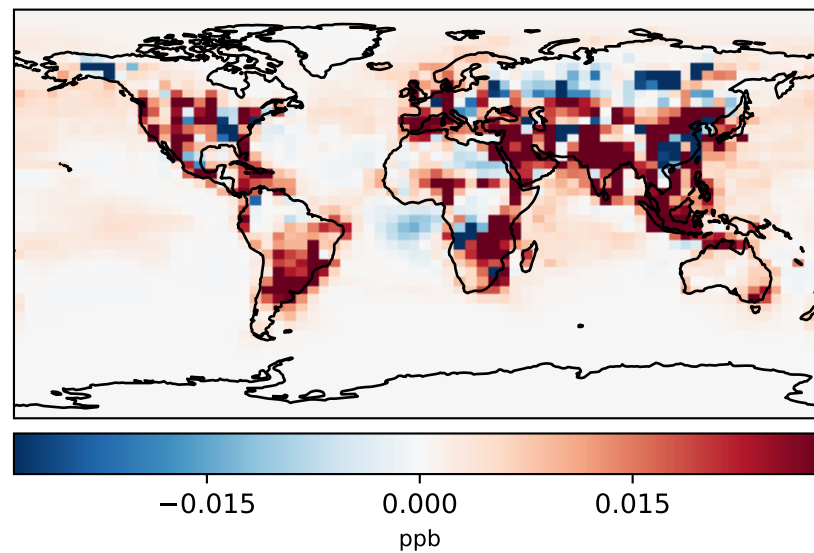
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



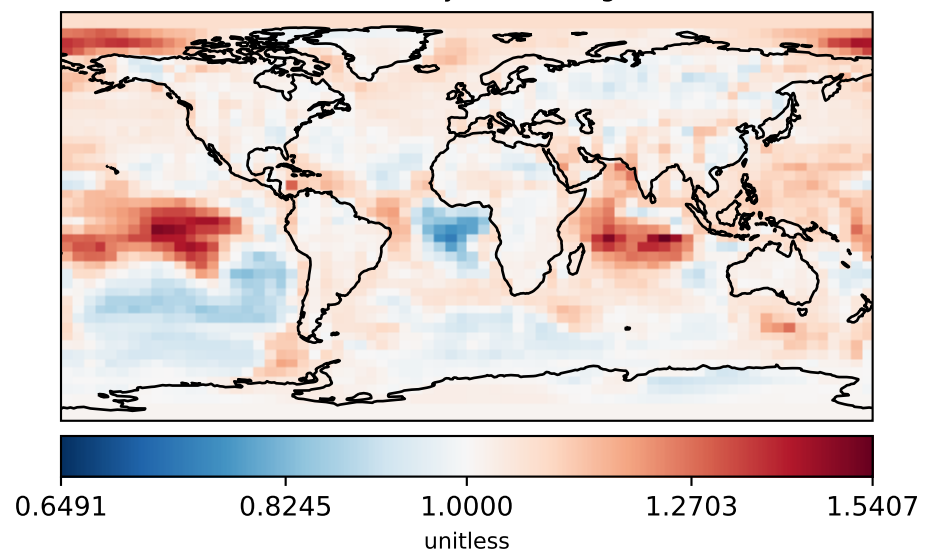
Difference
Dev - Ref, Dynamic Range



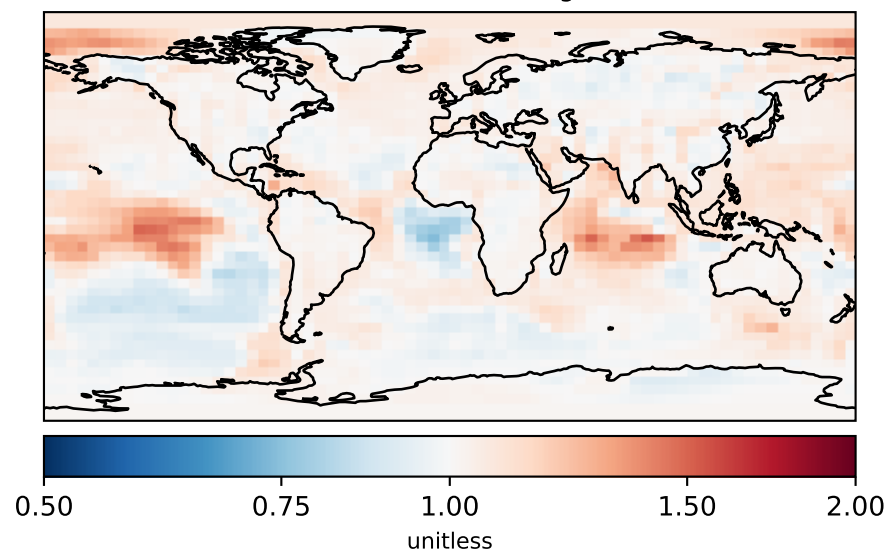
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

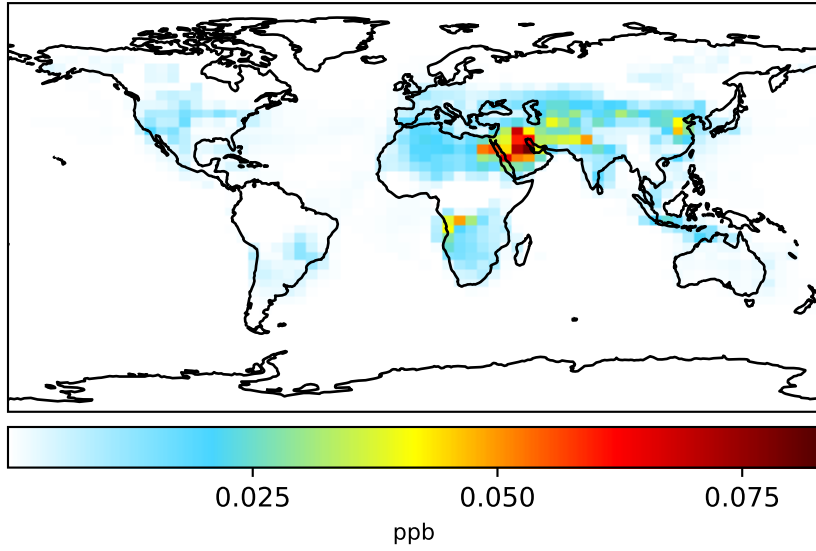


Ratio
Dev/Ref, Fixed Range

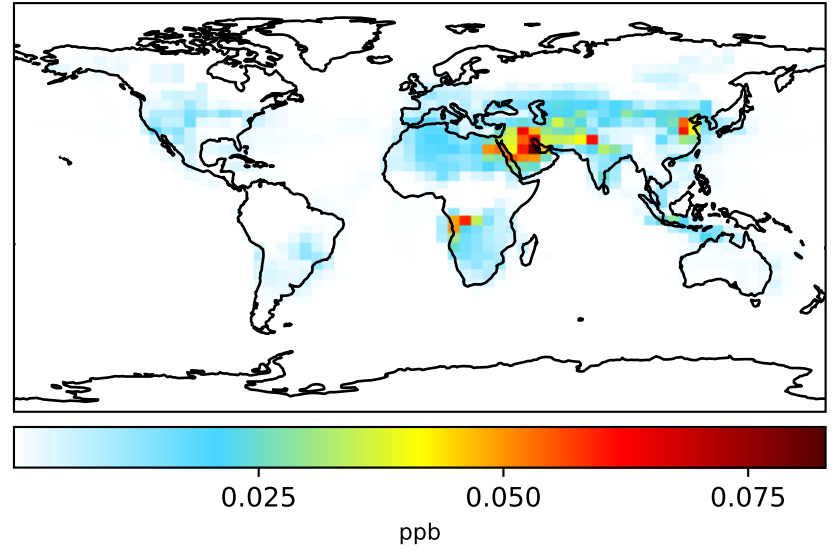


SpeciesConcVV_NO3 (Jul2019)

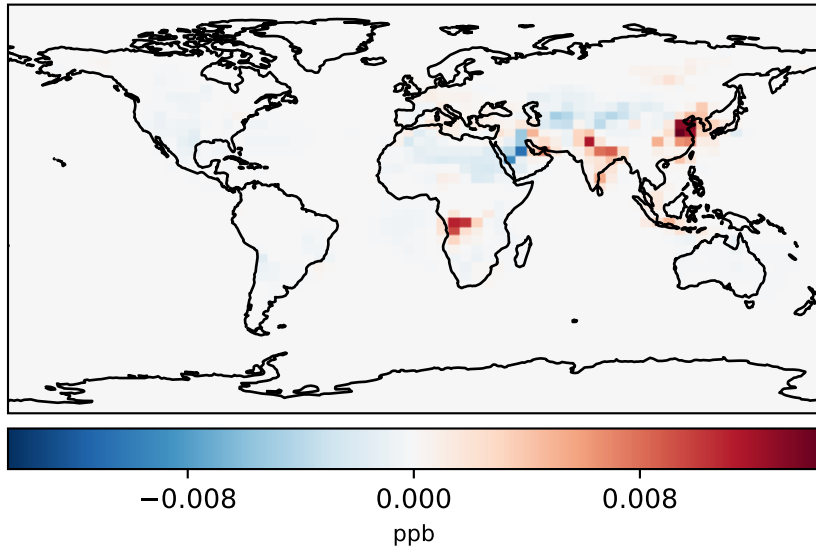
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



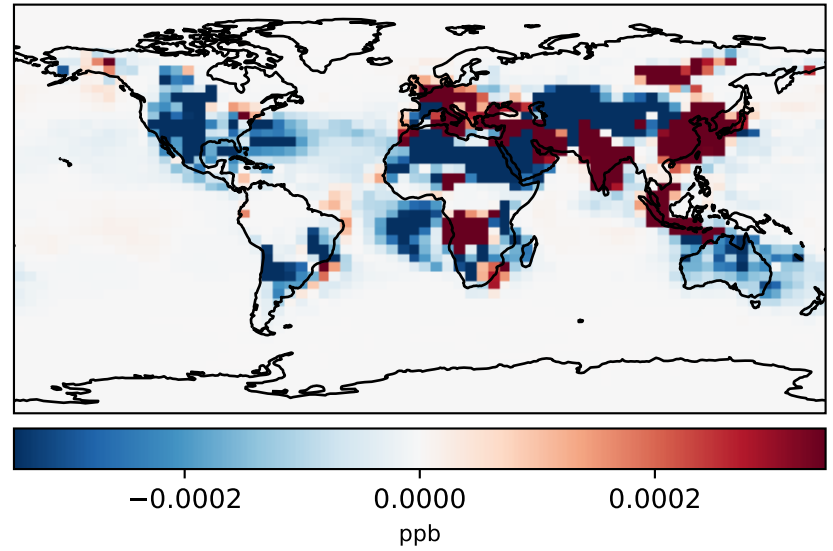
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



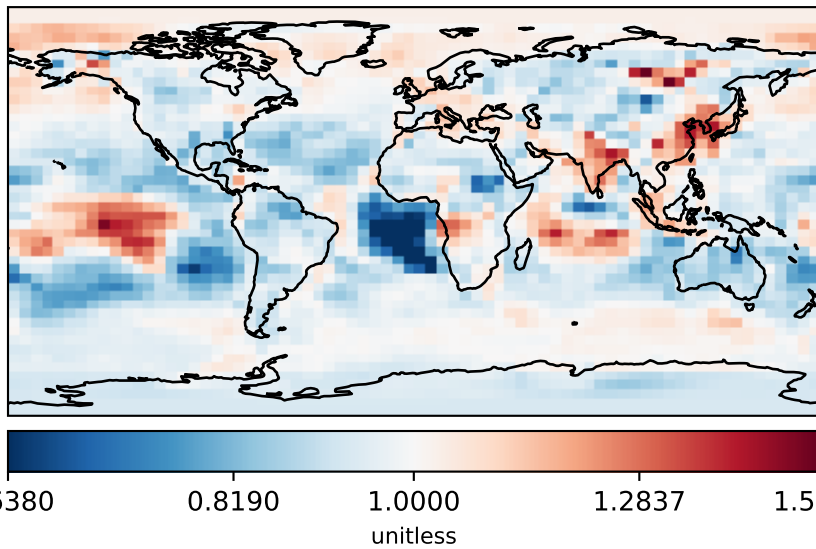
Difference
Dev - Ref, Dynamic Range



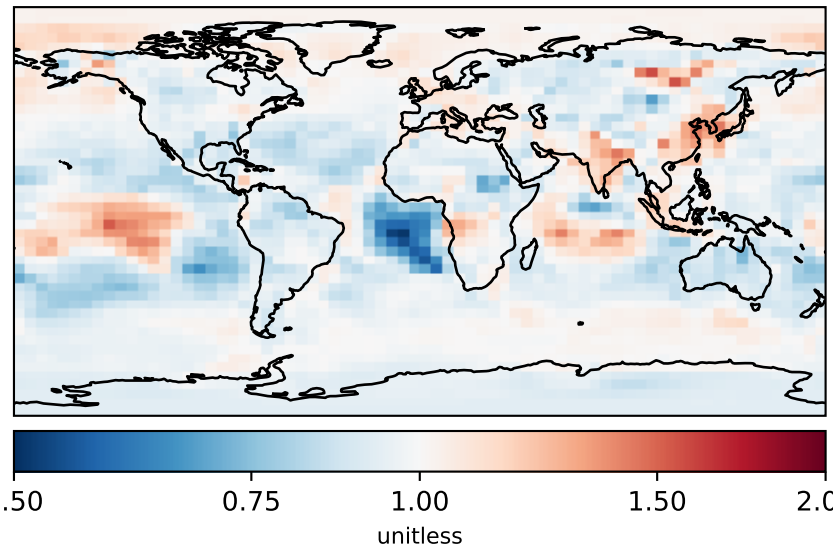
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

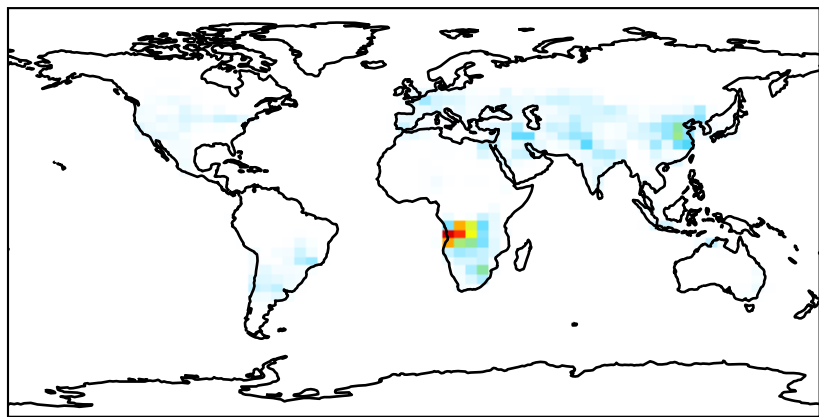


Ratio
Dev/Ref, Fixed Range



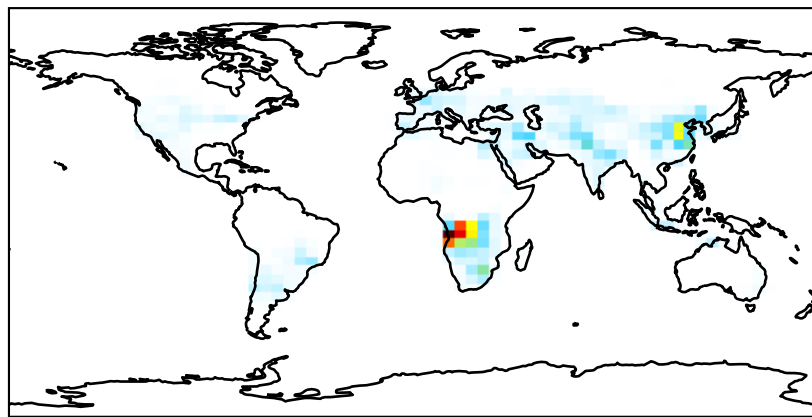
SpeciesConcVV_N2O5 (Jul2019)

gcc-14.3.0-rc.0 (Ref)
4.0x5.0



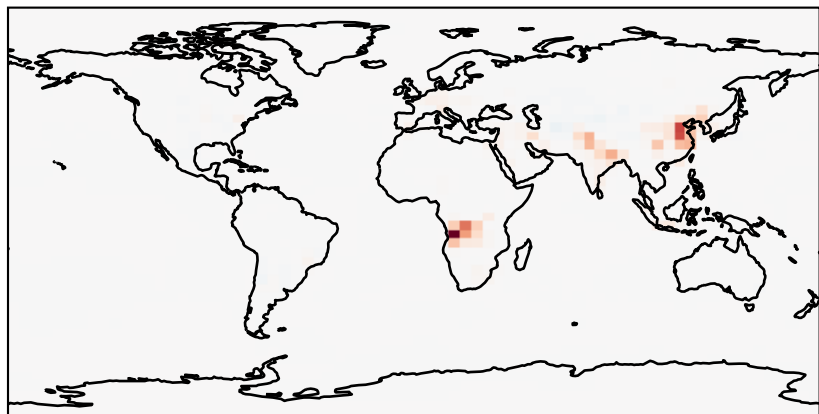
0.0000 0.1697 0.3394 0.5091 0.6788
ppb

gcc-14.4.0-rc.0 (Dev)
4.0x5.0



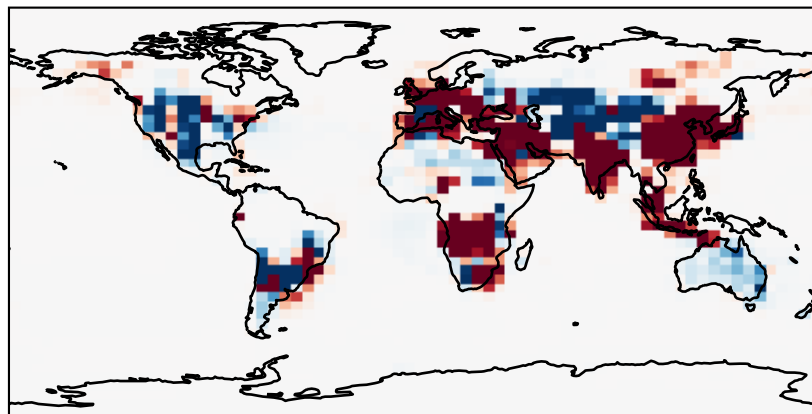
0.0000 0.1697 0.3394 0.5091 0.6788
ppb

Difference
Dev - Ref, Dynamic Range



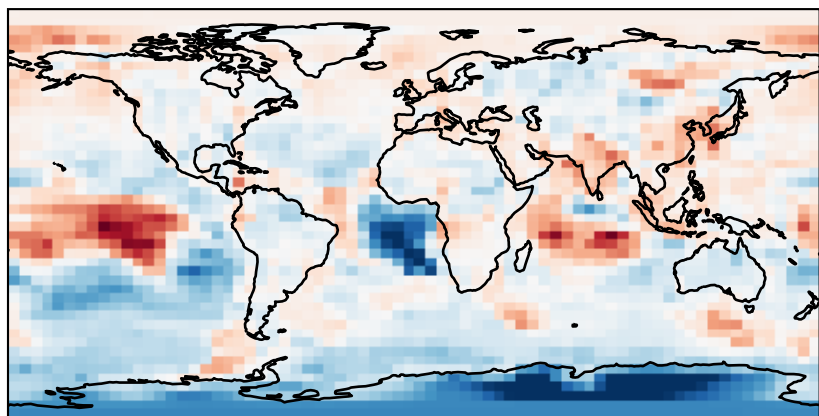
-0.1281 -0.0641 0.0000 0.0641 0.1281
ppb

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



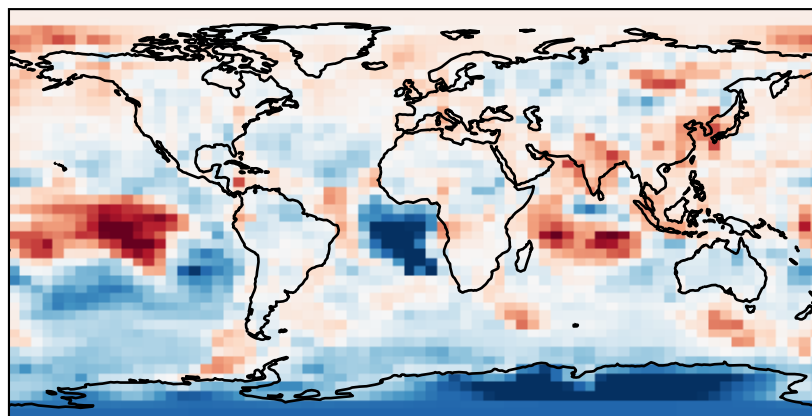
-0.0004 0.0000 0.0004
ppb

Ratio
Dev/Ref, Dynamic Range



0.432 0.716 1.000 1.658 2.316
unitless

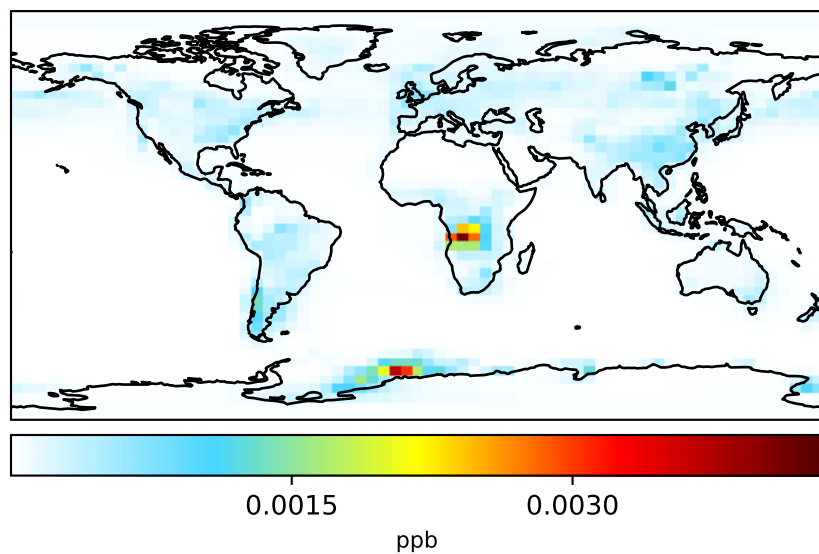
Ratio
Dev/Ref, Fixed Range



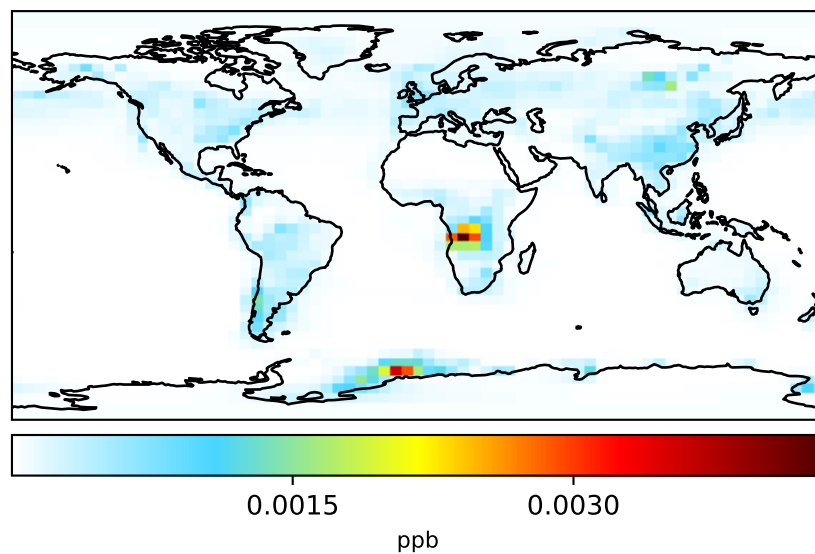
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_MPN (Jul2019)

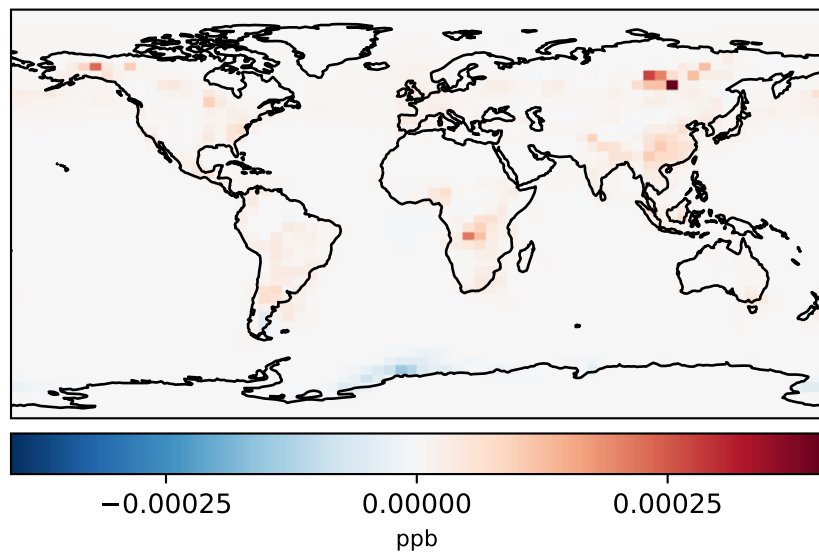
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



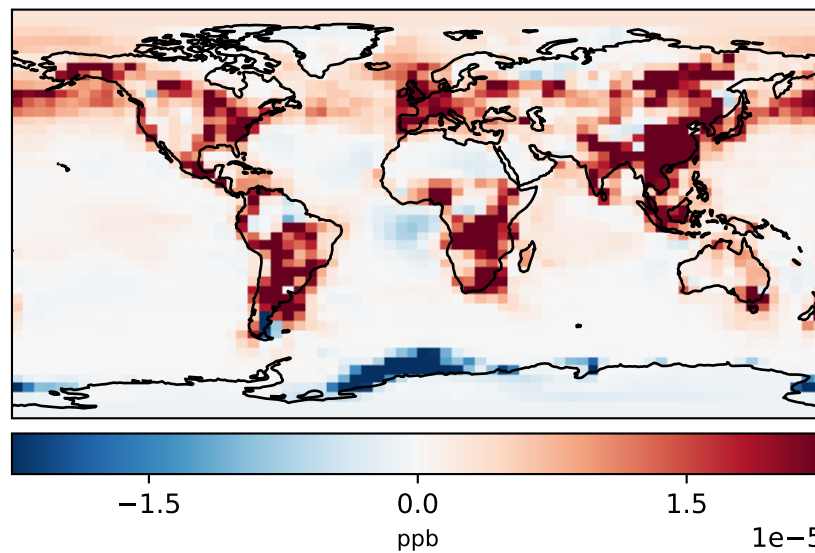
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



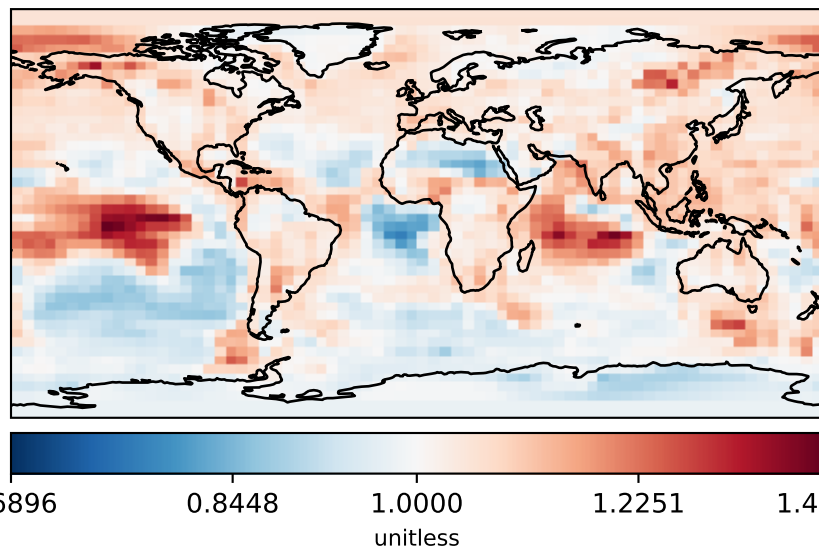
Difference
Dev - Ref, Dynamic Range



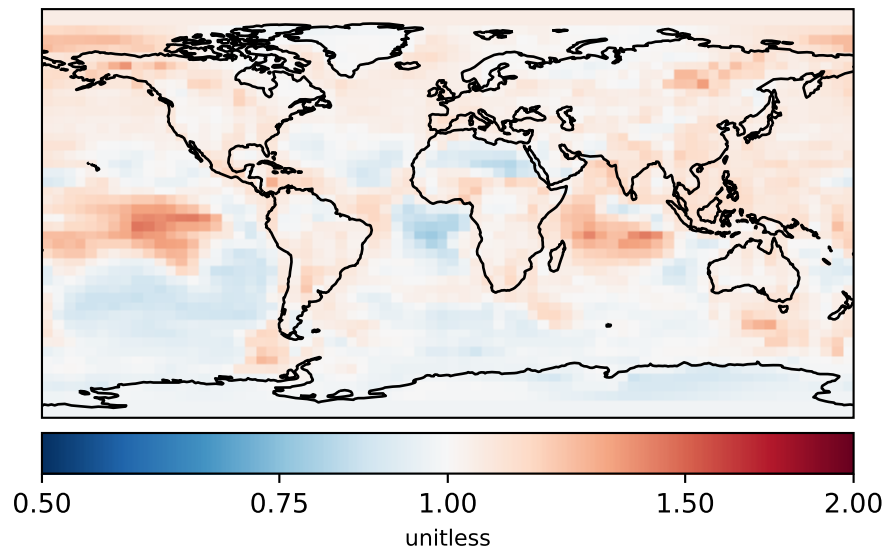
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

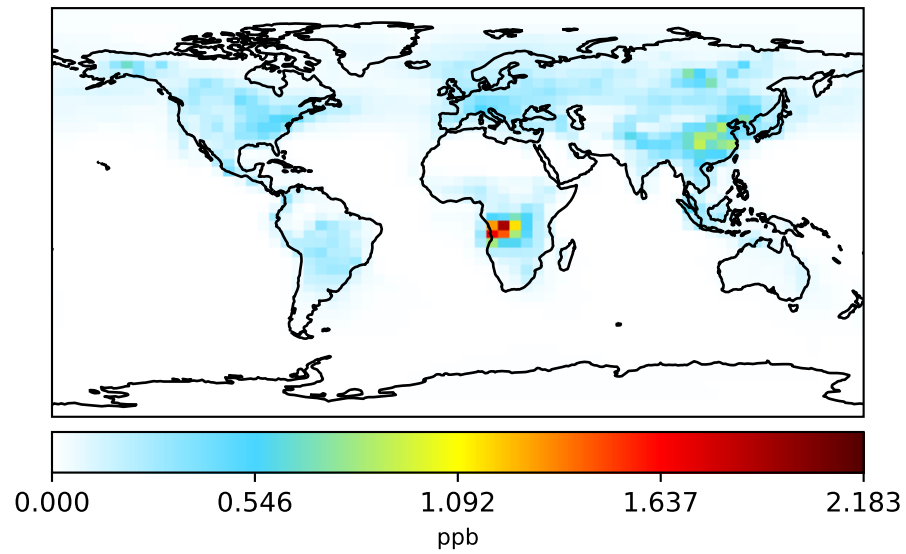


Ratio
Dev/Ref, Fixed Range

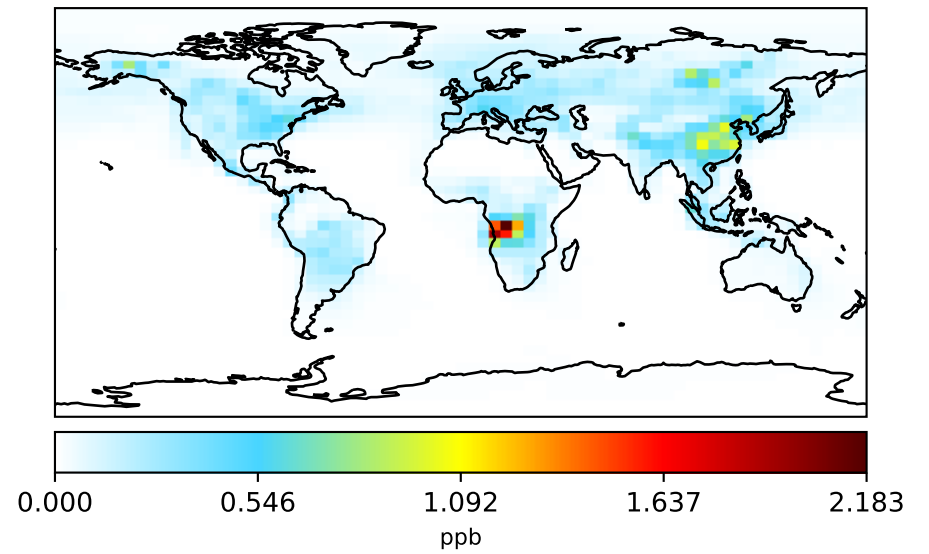


SpeciesConcVV_PAN (Jul2019)

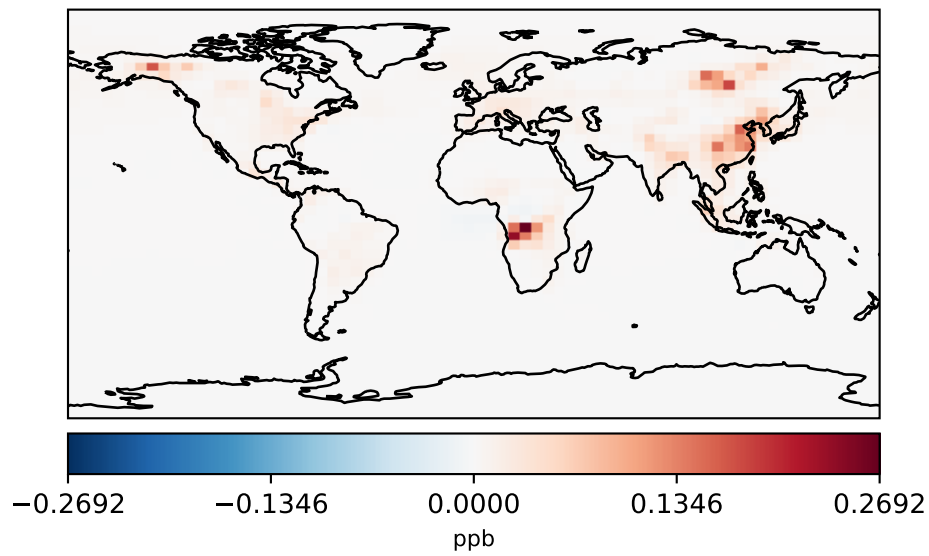
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



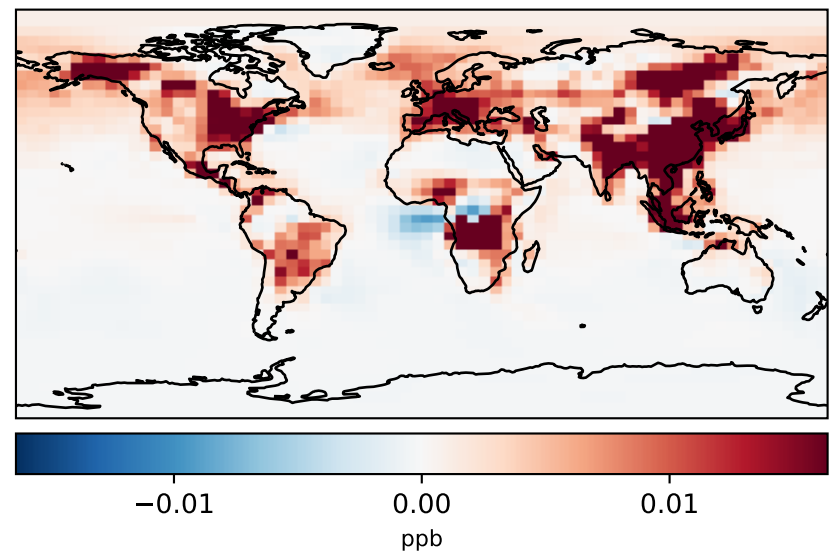
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



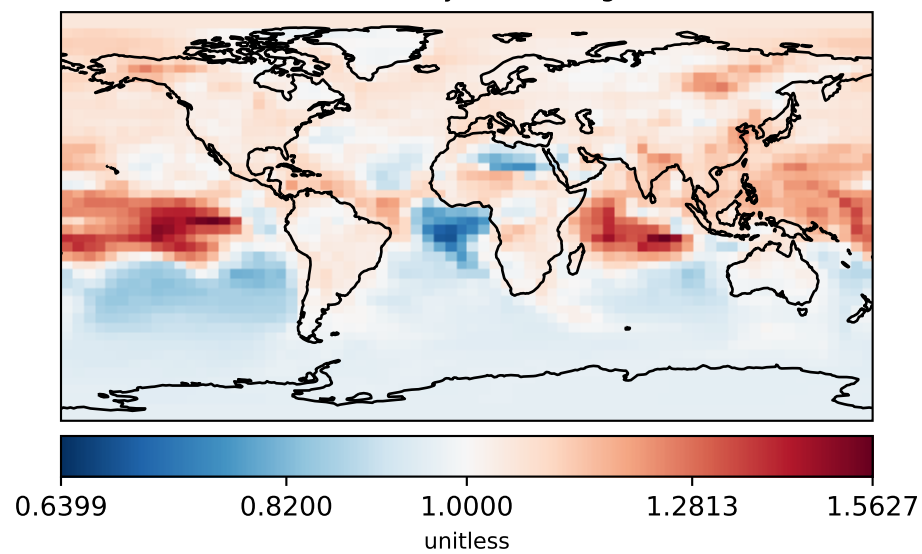
Difference
Dev - Ref, Dynamic Range



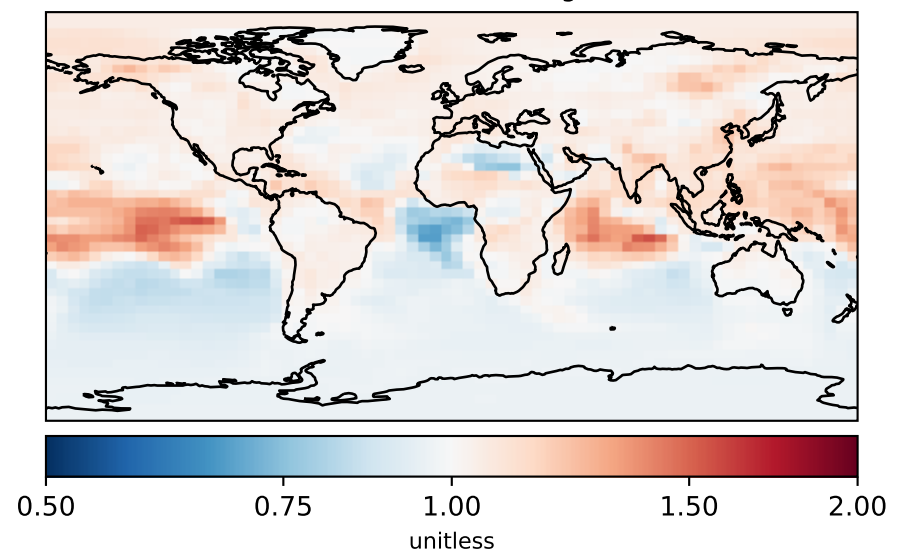
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

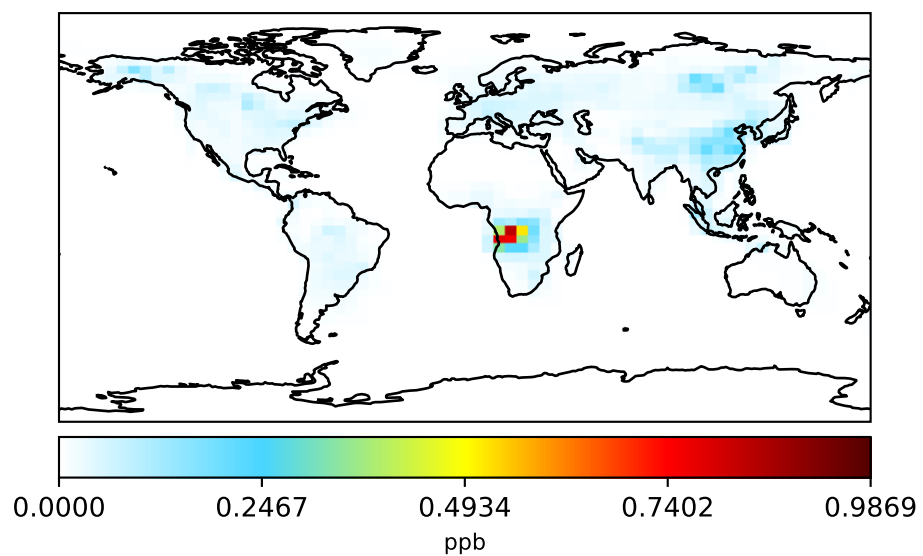


Ratio
Dev/Ref, Fixed Range

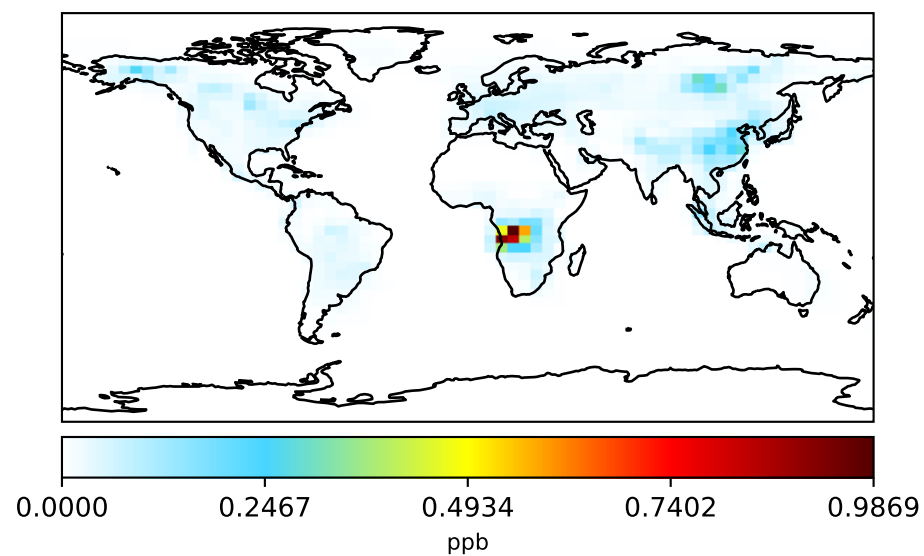


SpeciesConcVV_PPN (Jul2019)

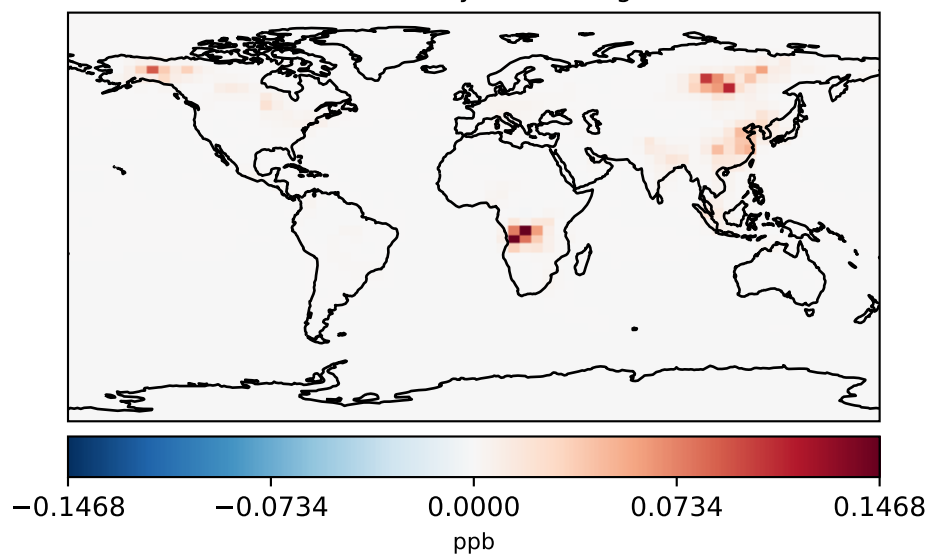
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



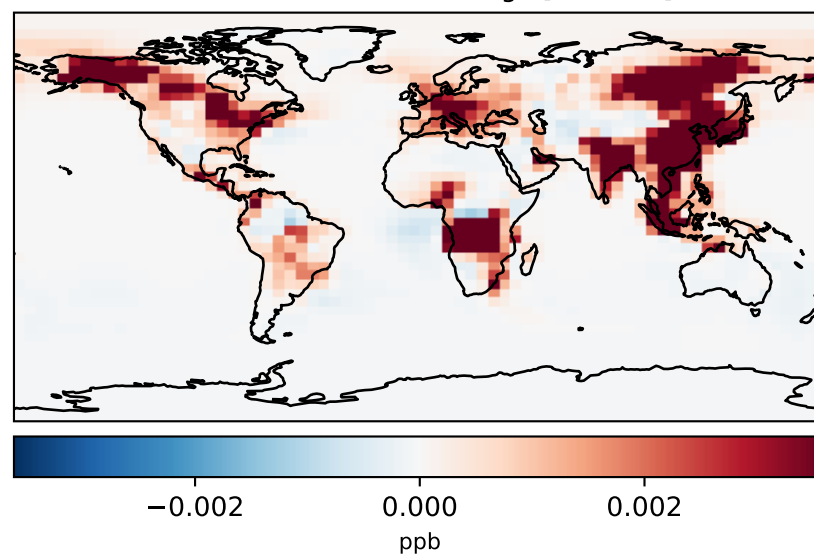
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



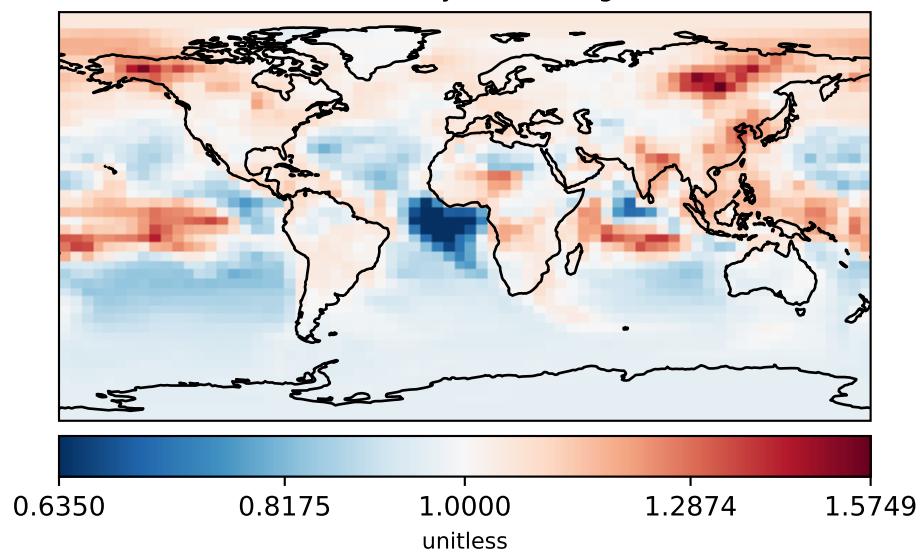
Difference
Dev - Ref, Dynamic Range



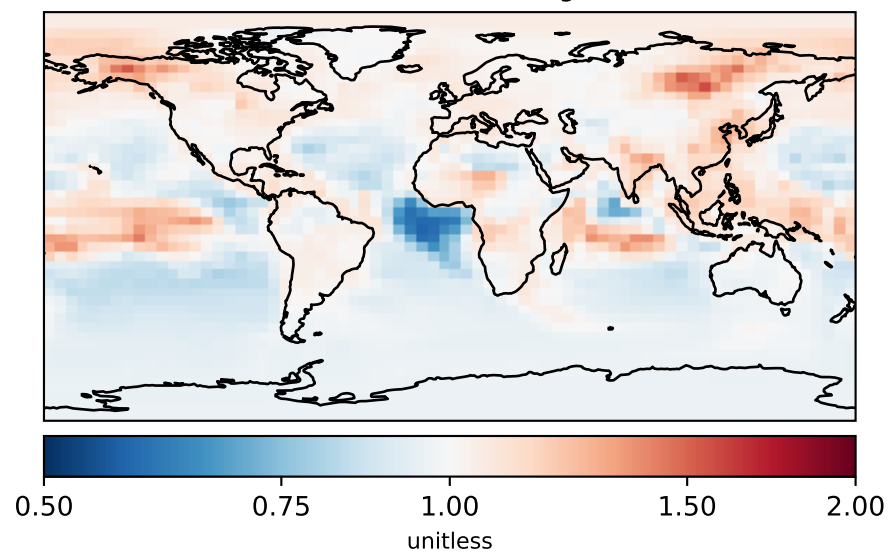
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

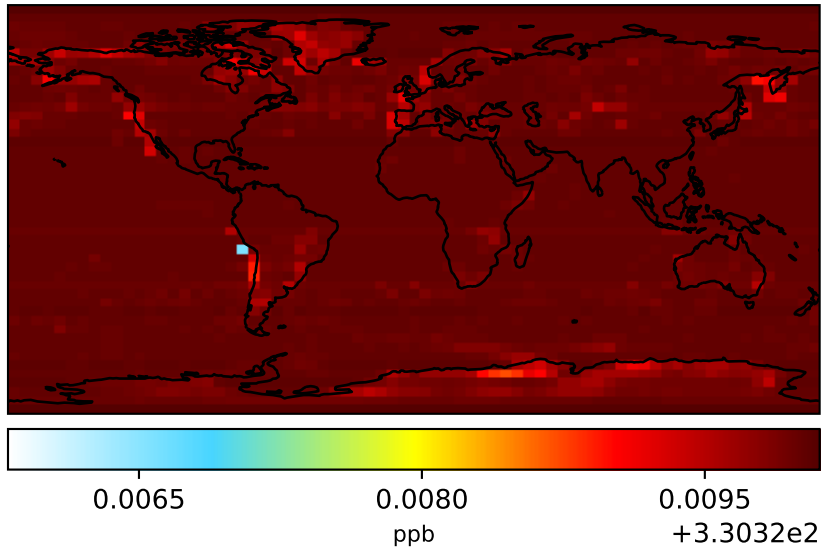


Ratio
Dev/Ref, Fixed Range

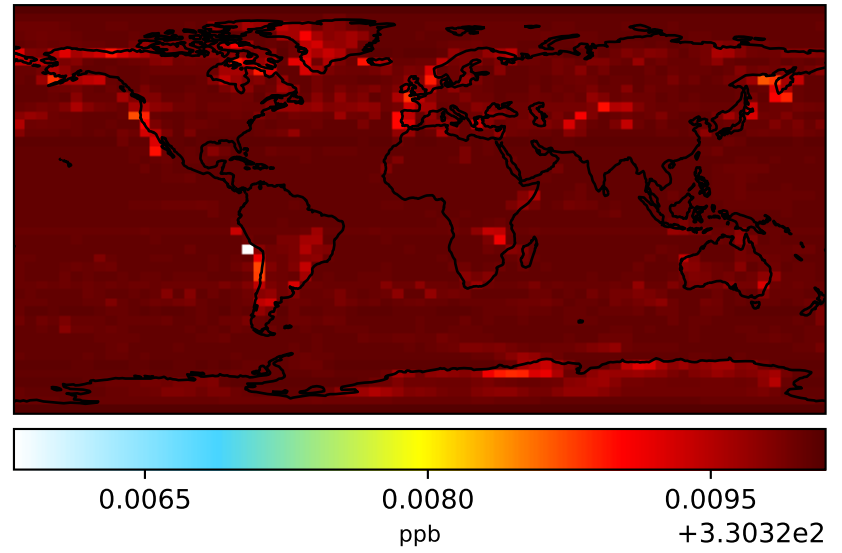


SpeciesConcVV_N2O (Jul2019)

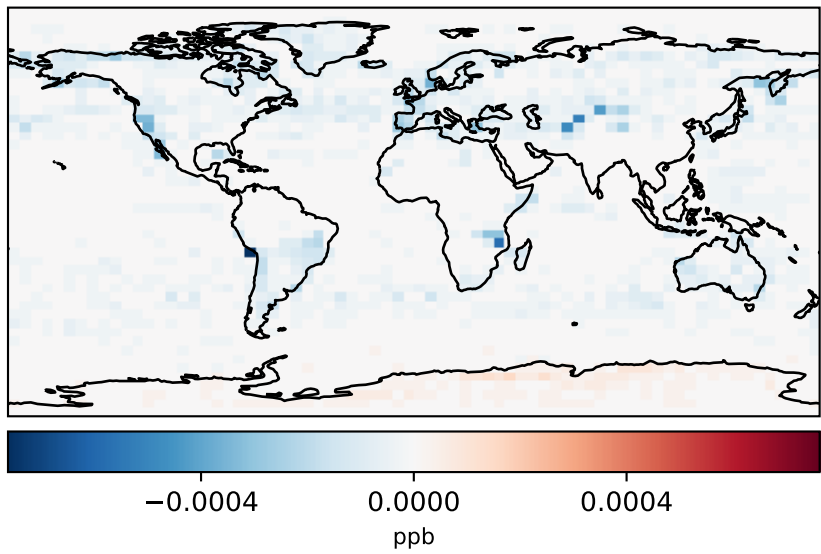
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



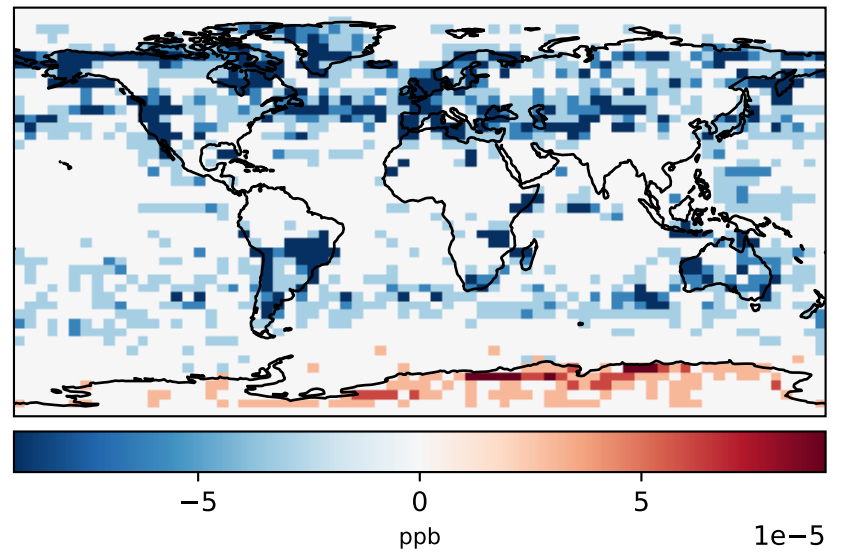
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



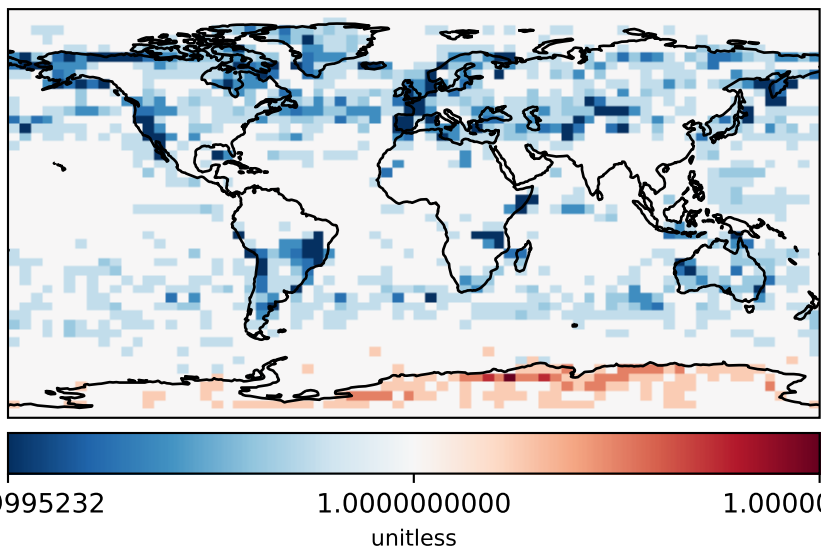
Difference
Dev - Ref, Dynamic Range



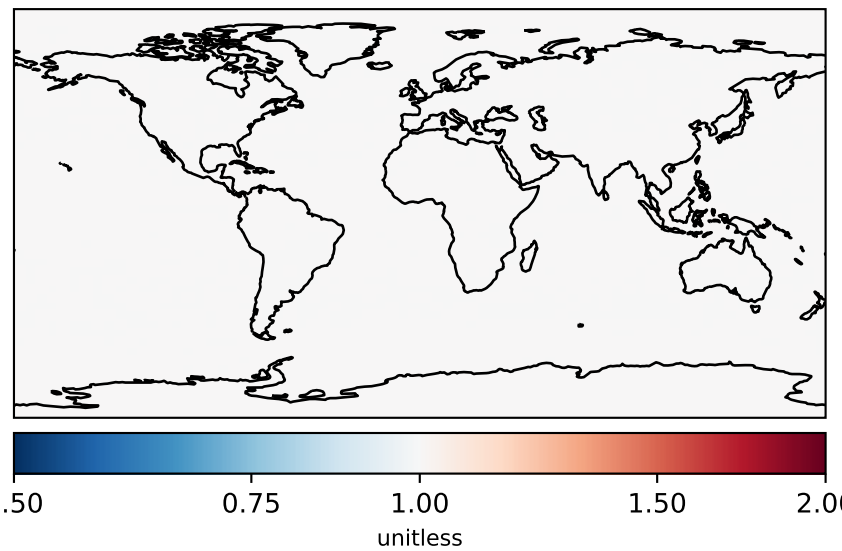
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

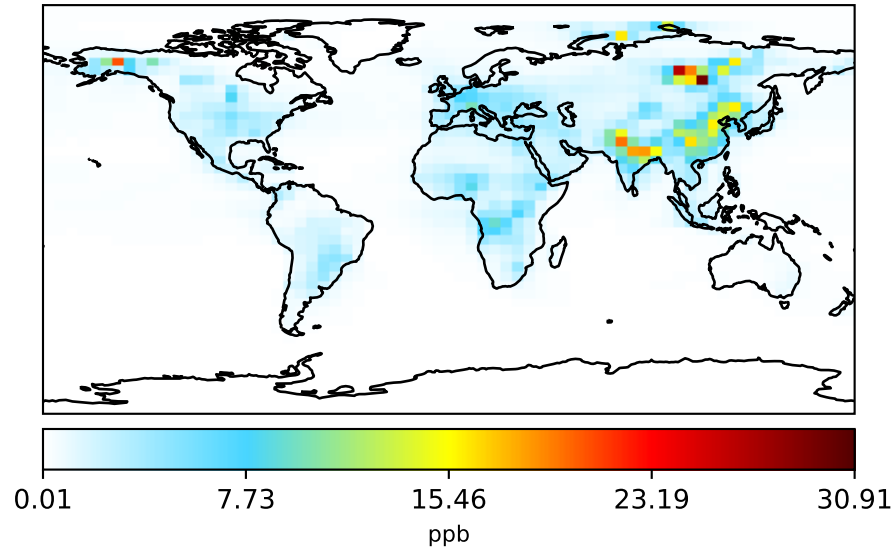


Ratio
Dev/Ref, Fixed Range

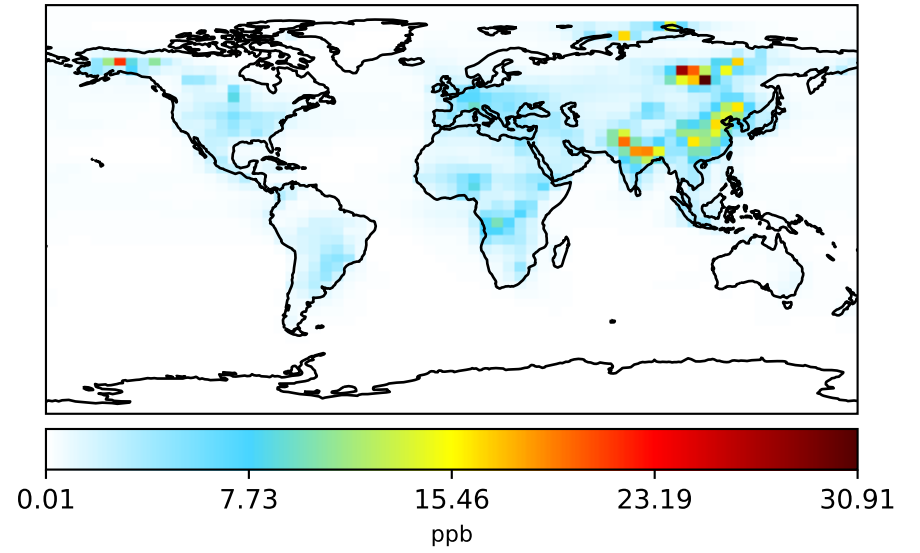


SpeciesConcVV_NHx (Jul2019)

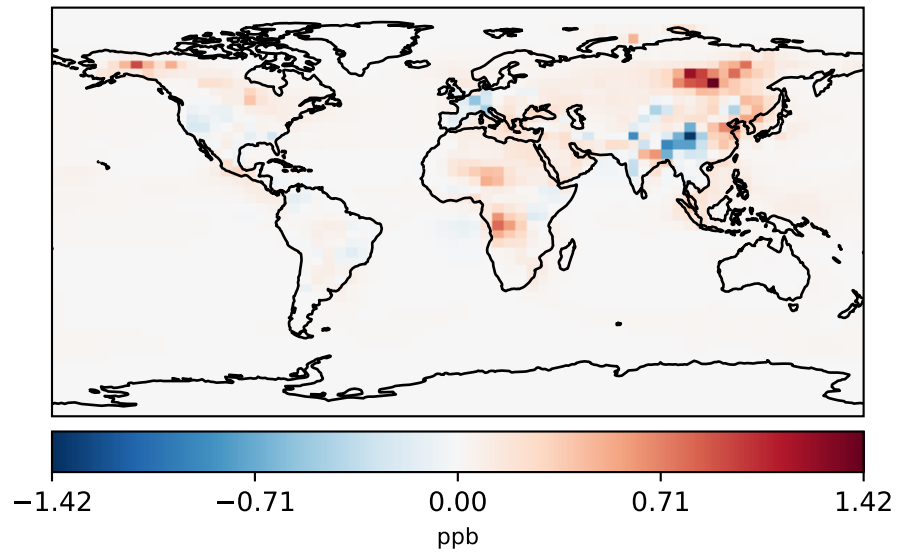
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



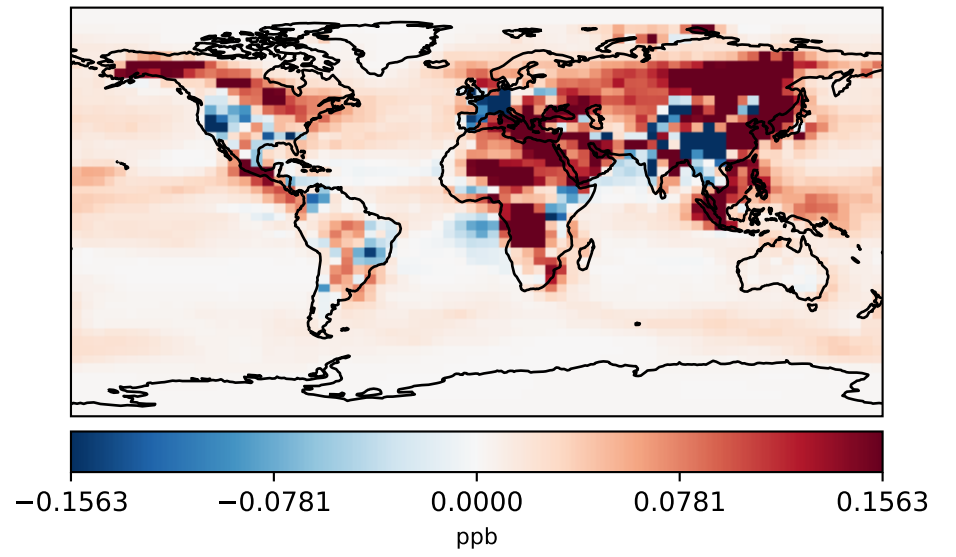
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



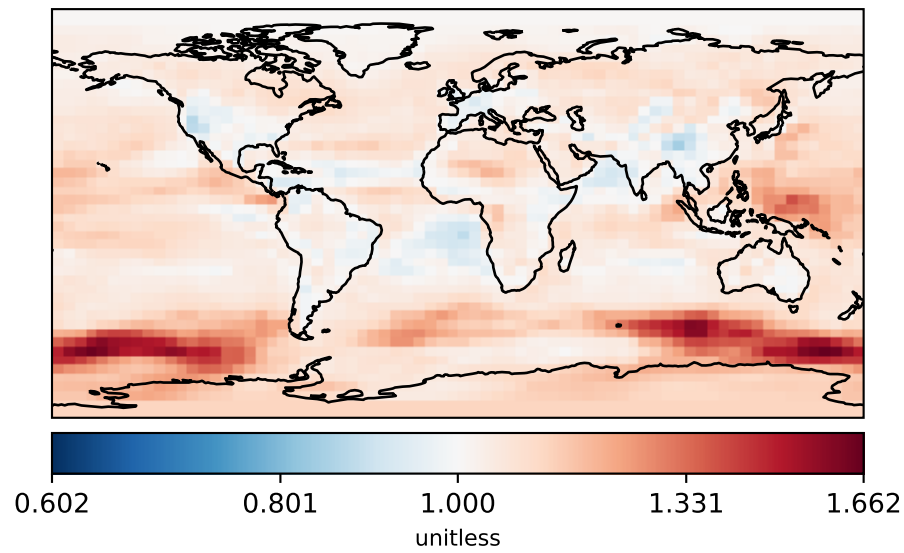
Difference
Dev - Ref, Dynamic Range



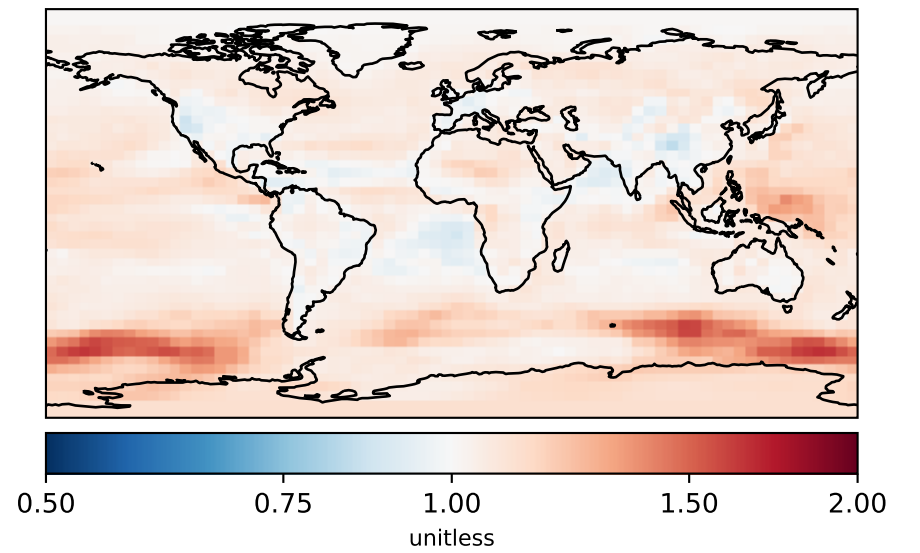
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

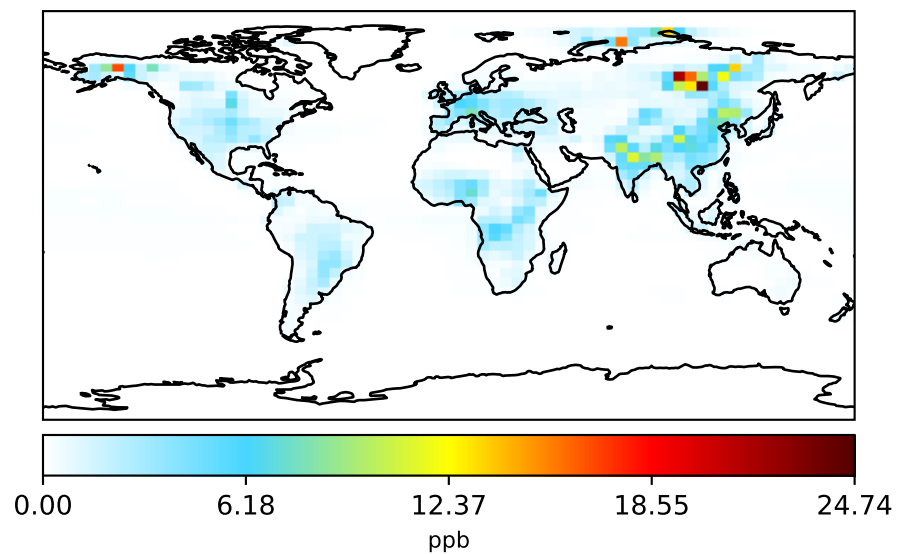


Ratio
Dev/Ref, Fixed Range

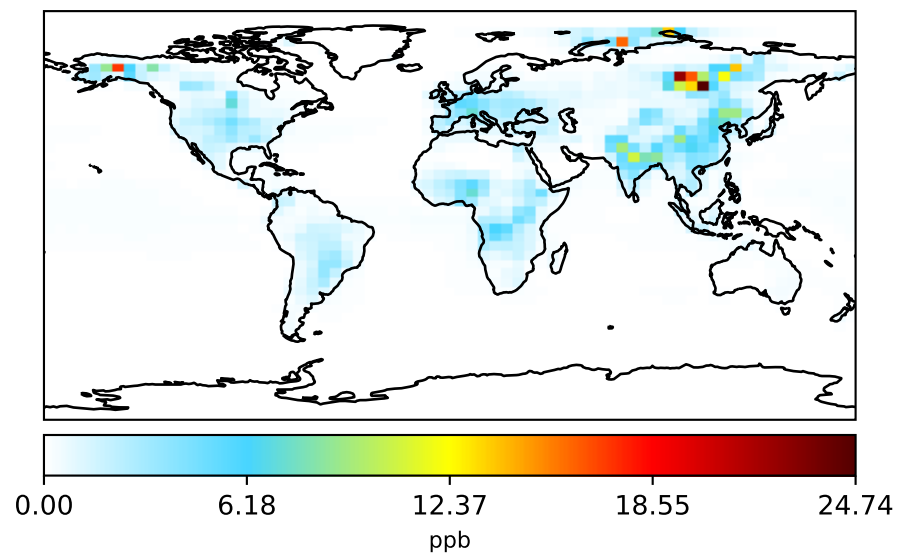


SpeciesConcVV_NH3 (Jul2019)

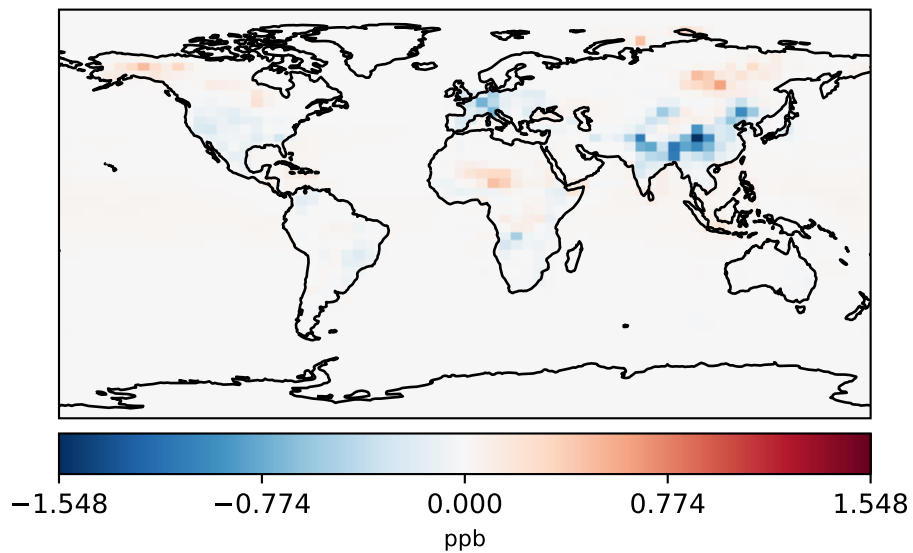
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



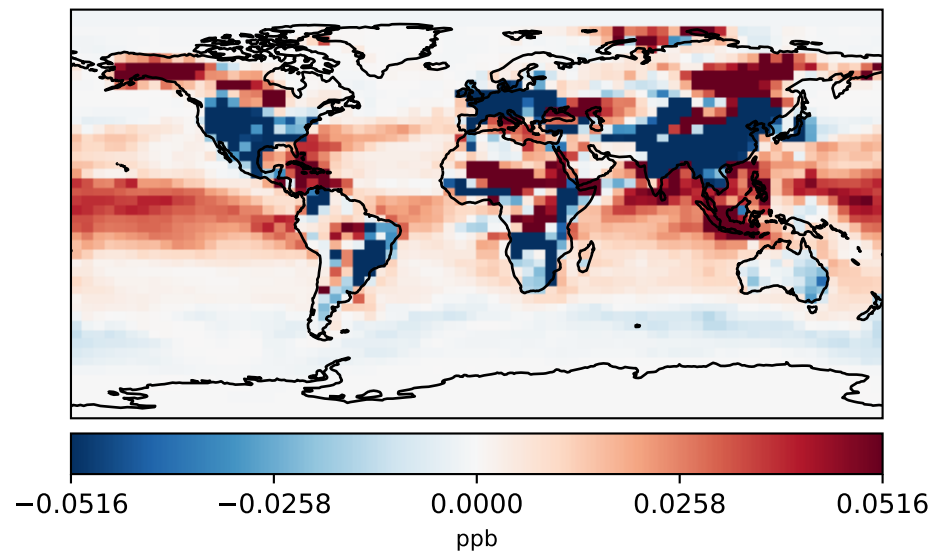
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



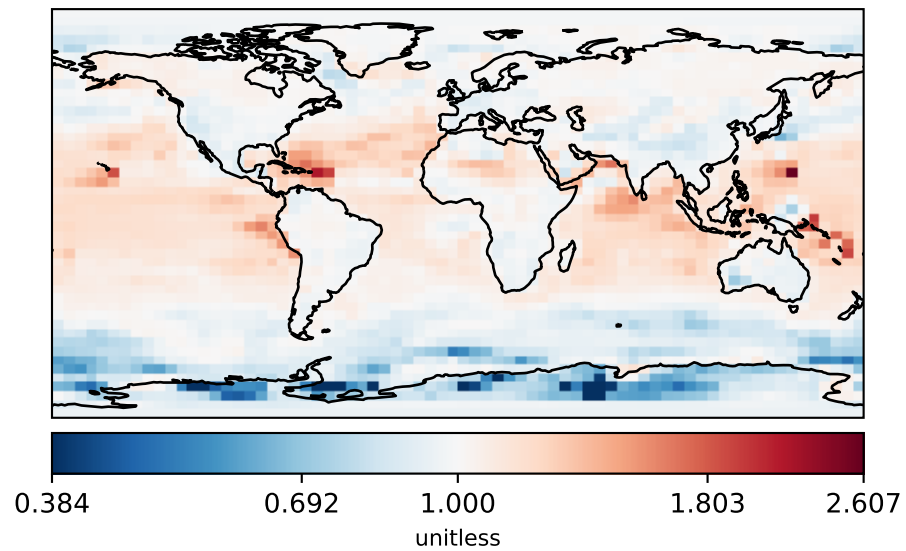
Difference
Dev - Ref, Dynamic Range



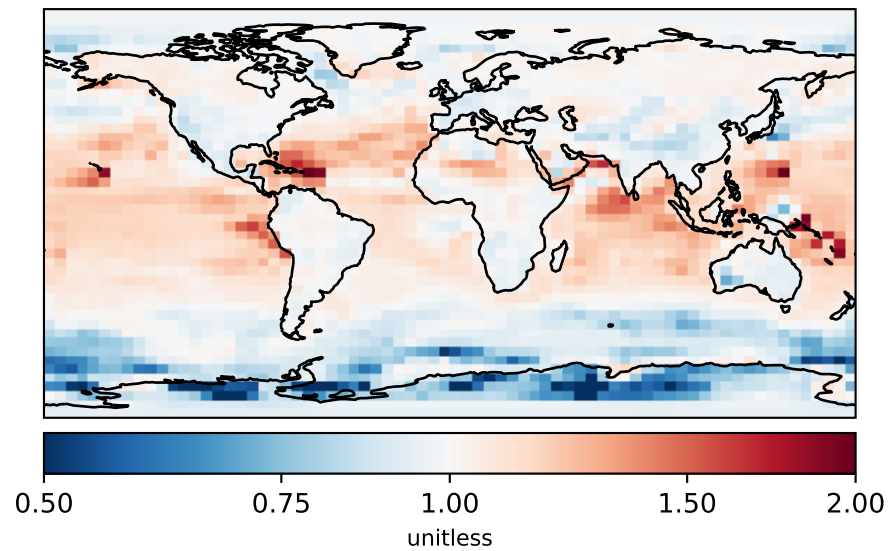
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

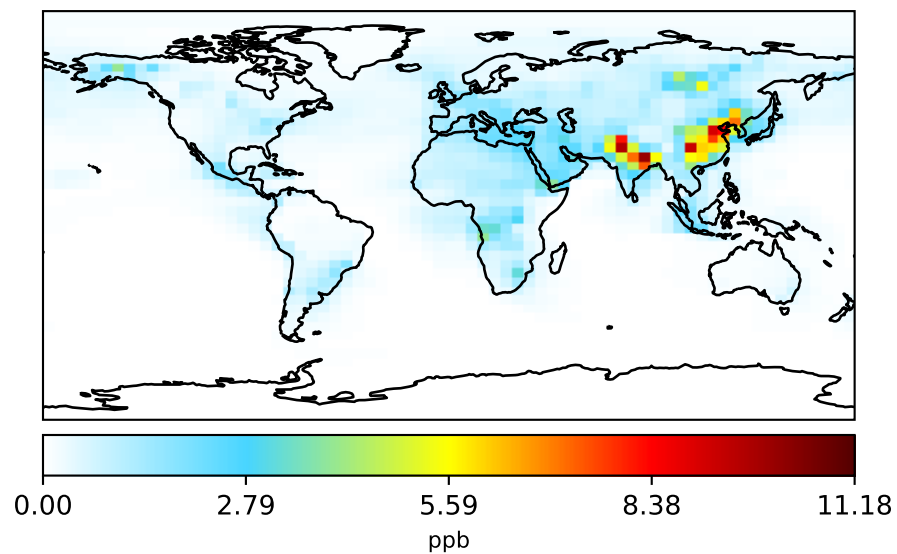


Ratio
Dev/Ref, Fixed Range

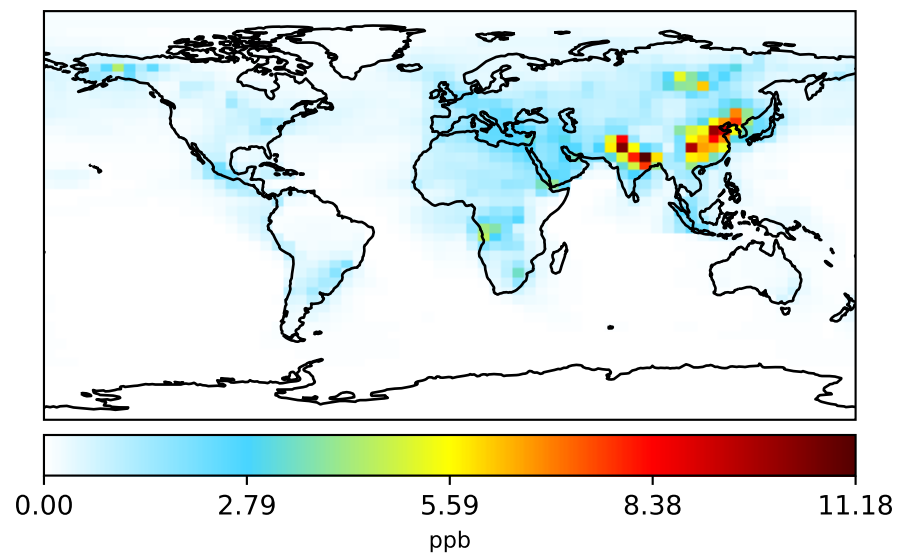


SpeciesConcVV_NH4 (Jul2019)

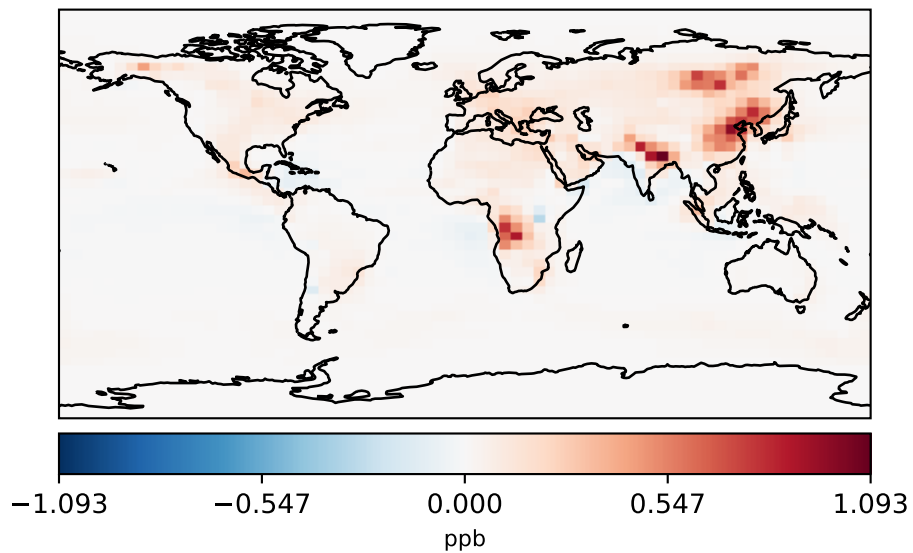
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



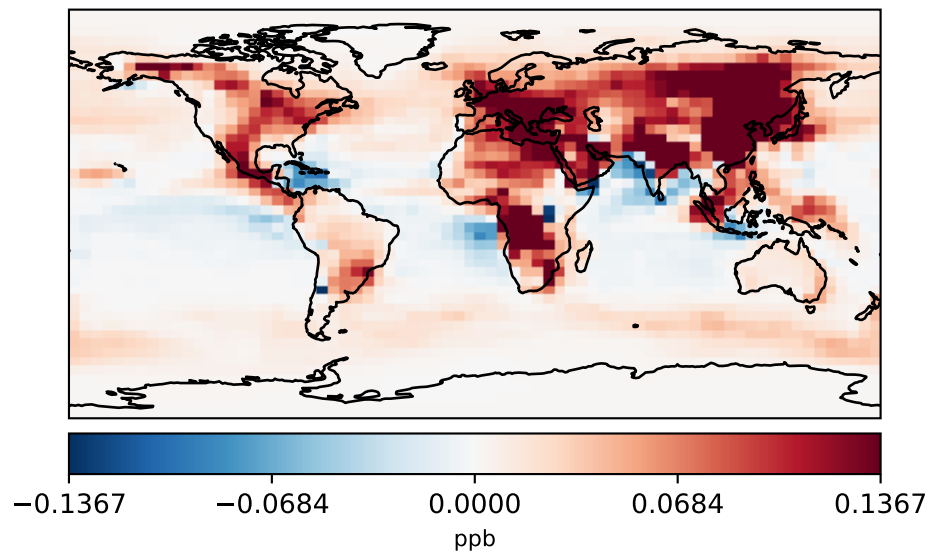
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



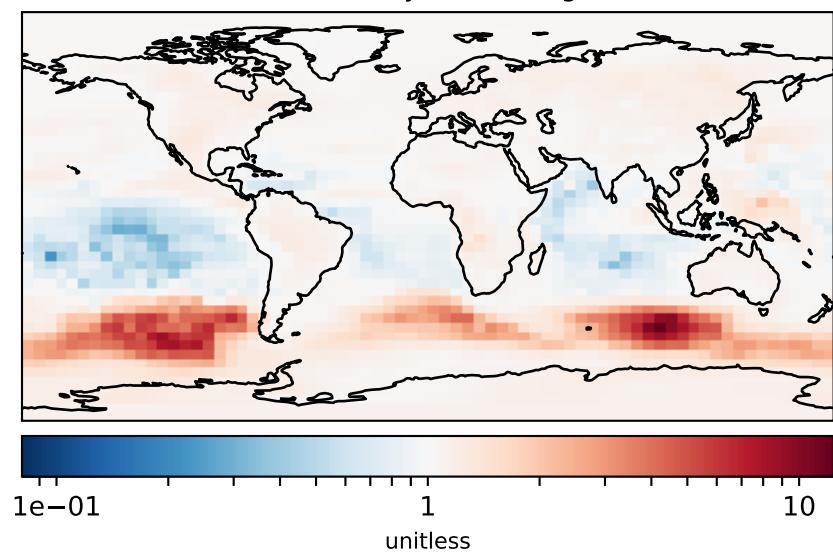
Difference
Dev - Ref, Dynamic Range



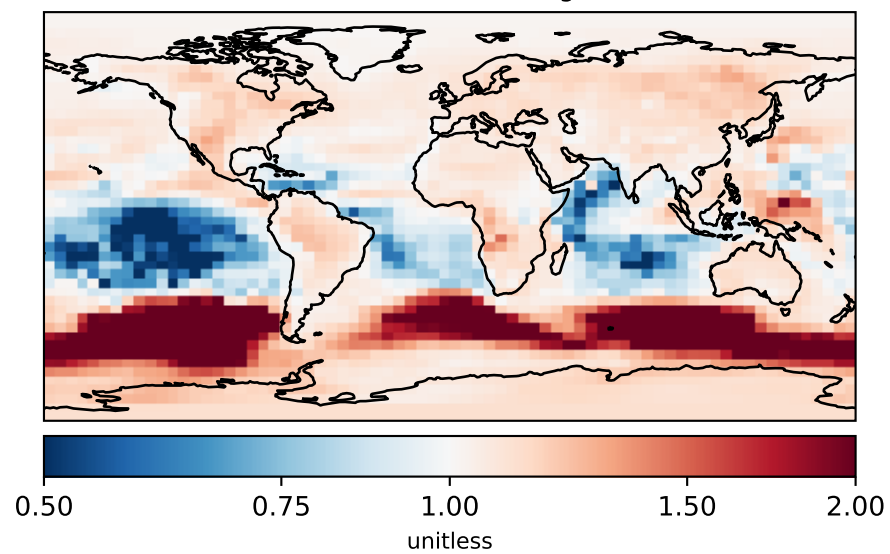
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

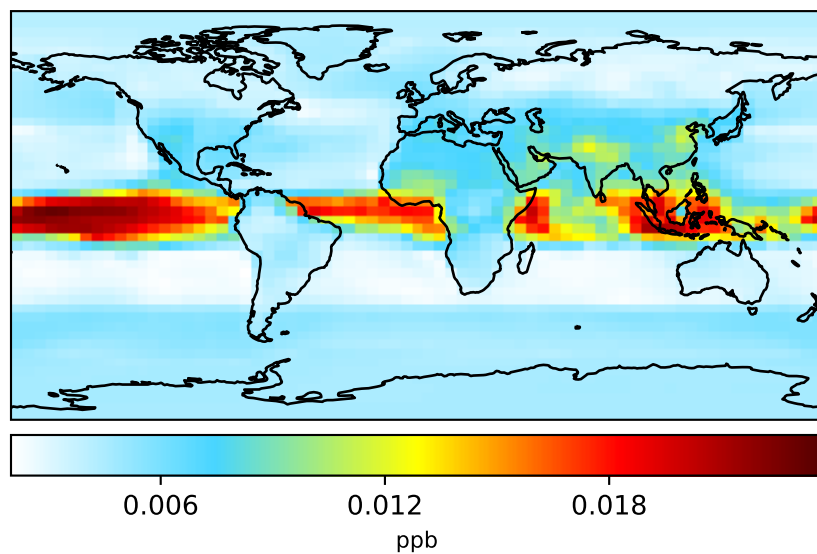


Ratio
Dev/Ref, Fixed Range

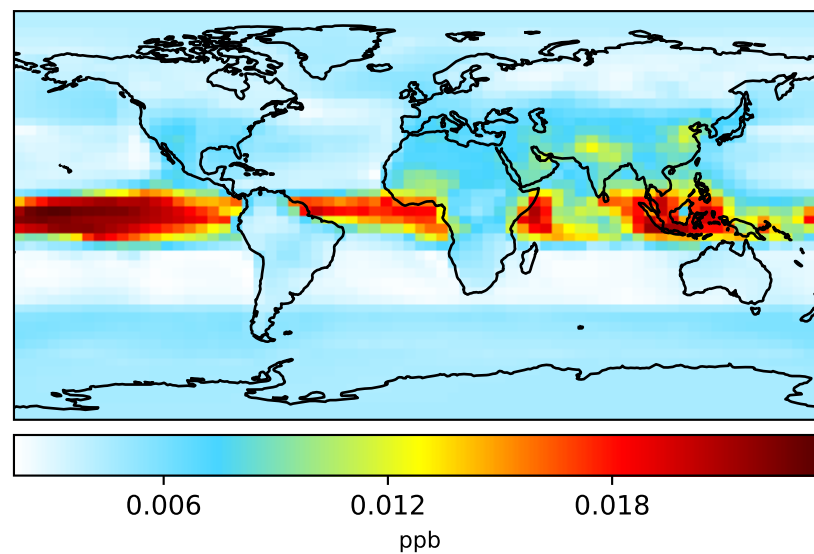


SpeciesConcVW_MENO3 (Jul2019)

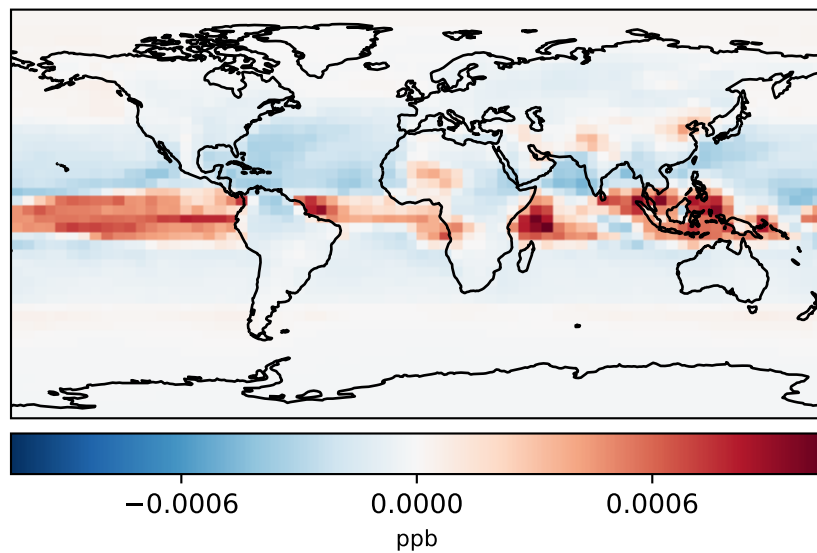
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



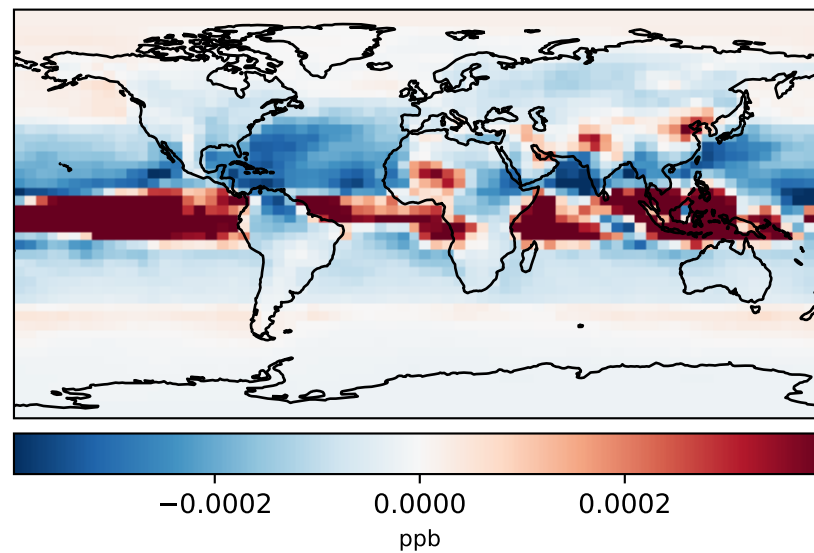
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



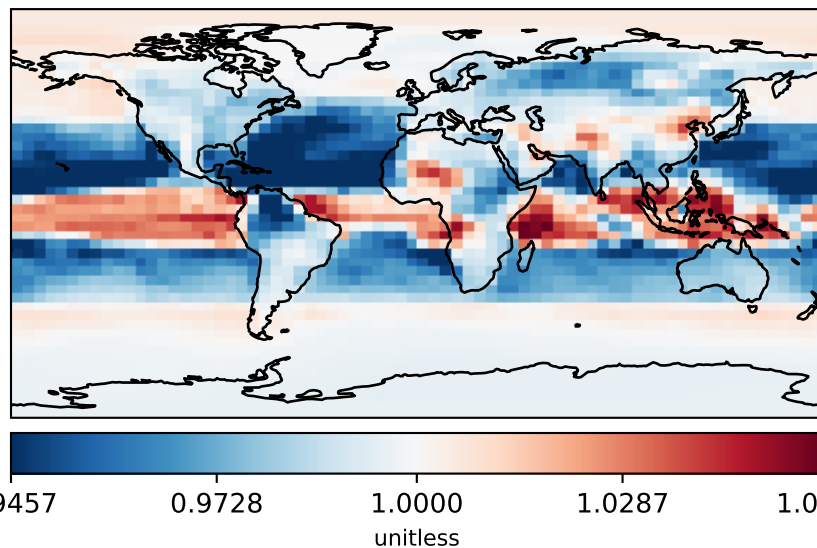
Difference
Dev - Ref, Dynamic Range



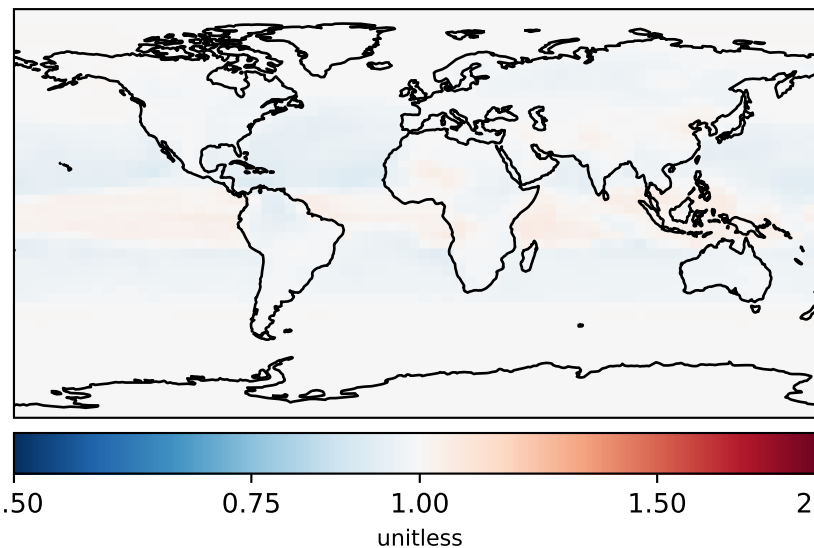
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

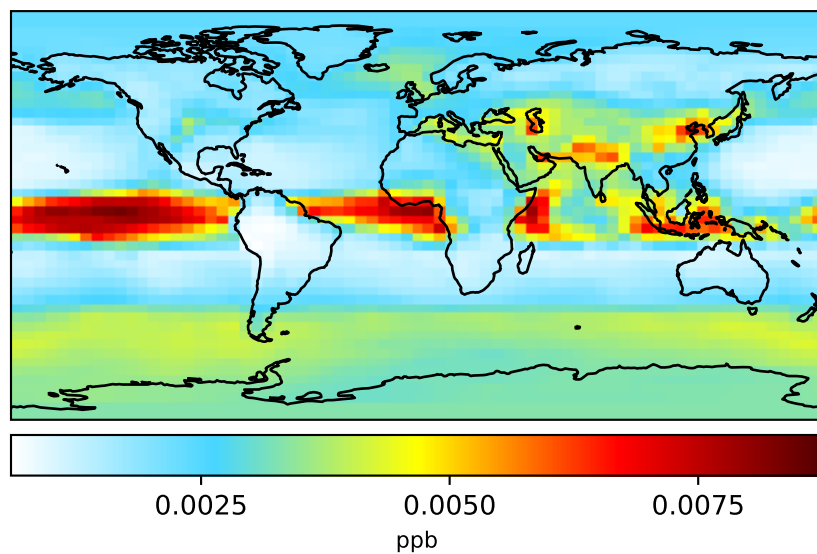


Ratio
Dev/Ref, Fixed Range

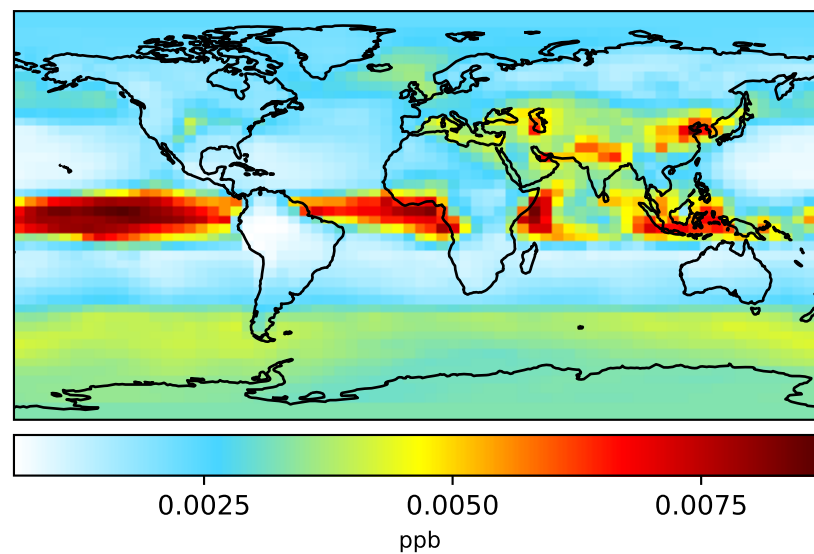


SpeciesConcVV_ETNO3 (Jul2019)

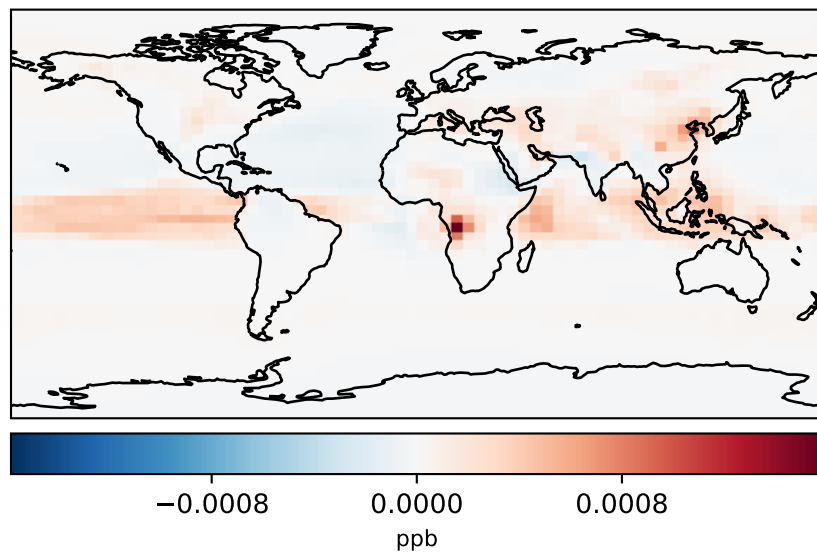
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



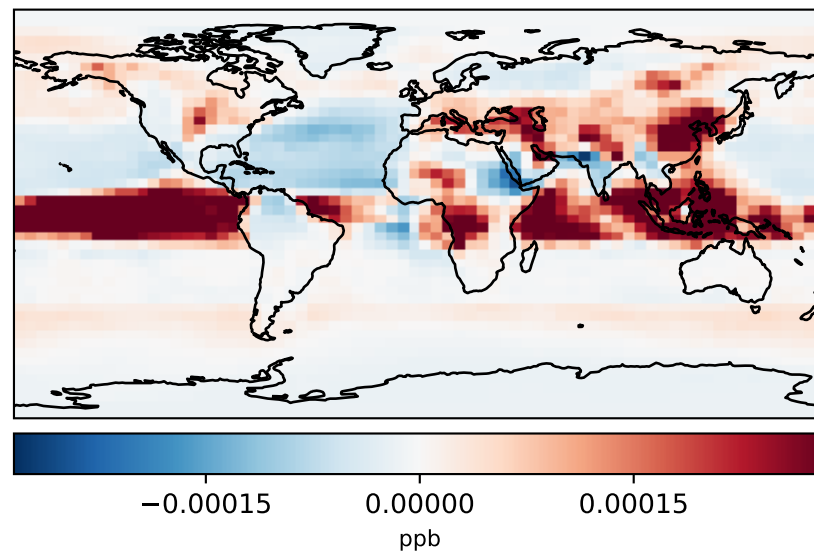
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



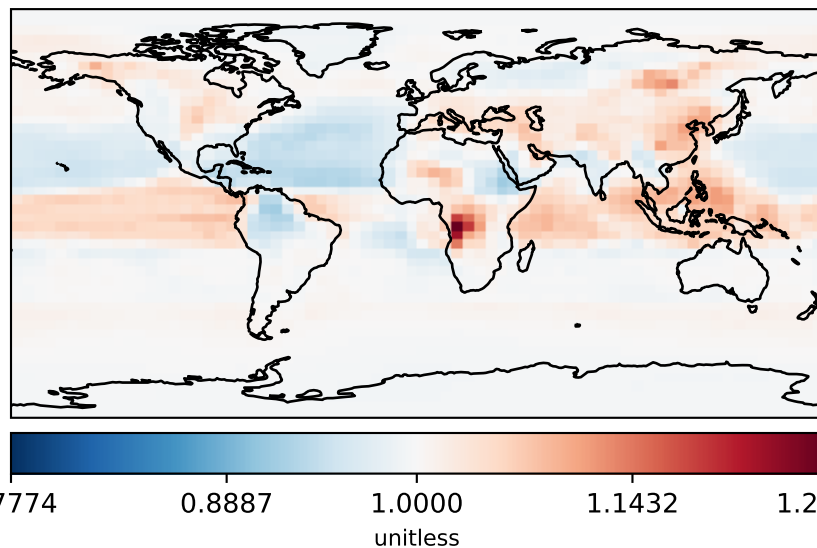
Difference
Dev - Ref, Dynamic Range



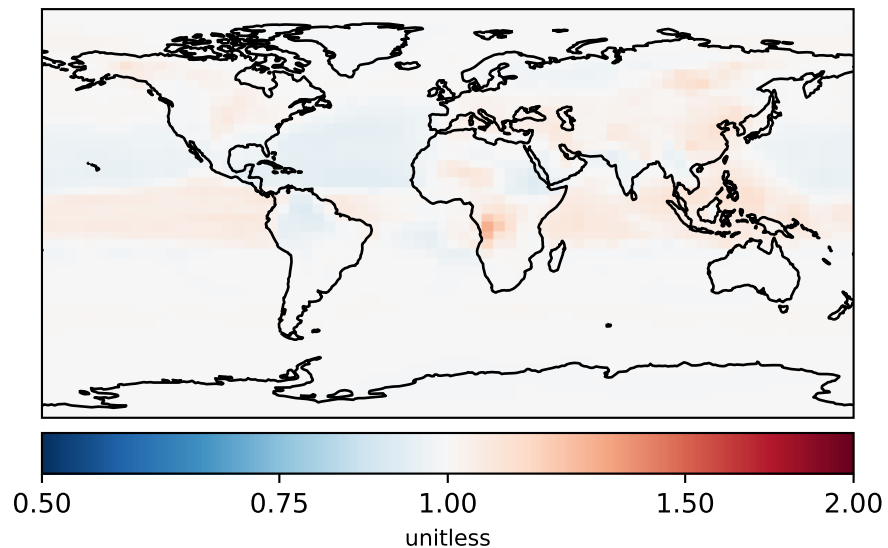
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

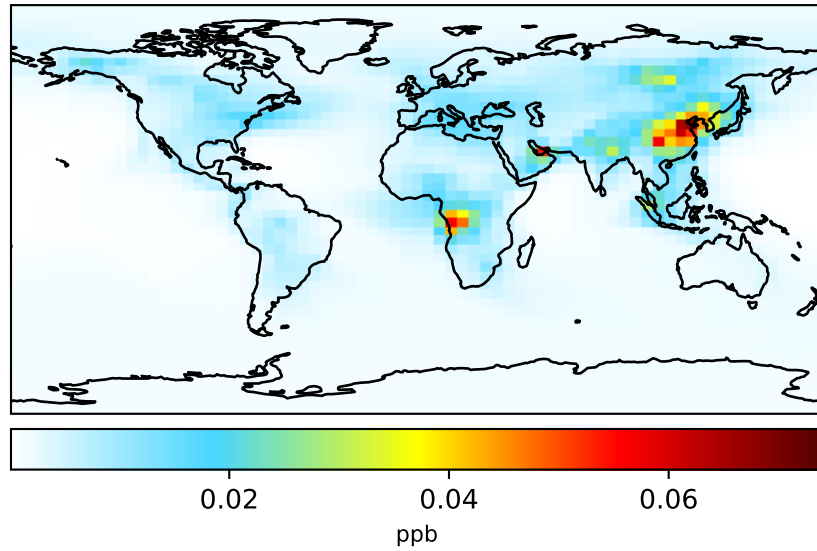


Ratio
Dev/Ref, Fixed Range

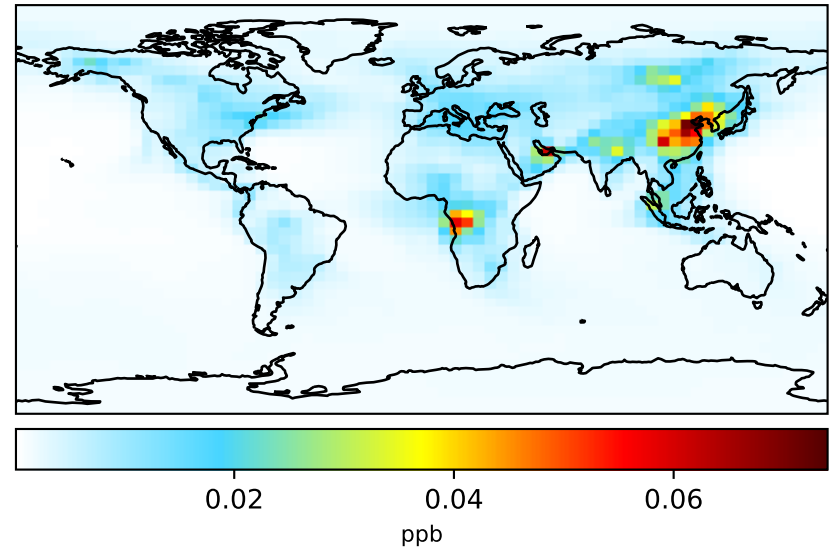


SpeciesConcVV_IPRNO3 (Jul2019)

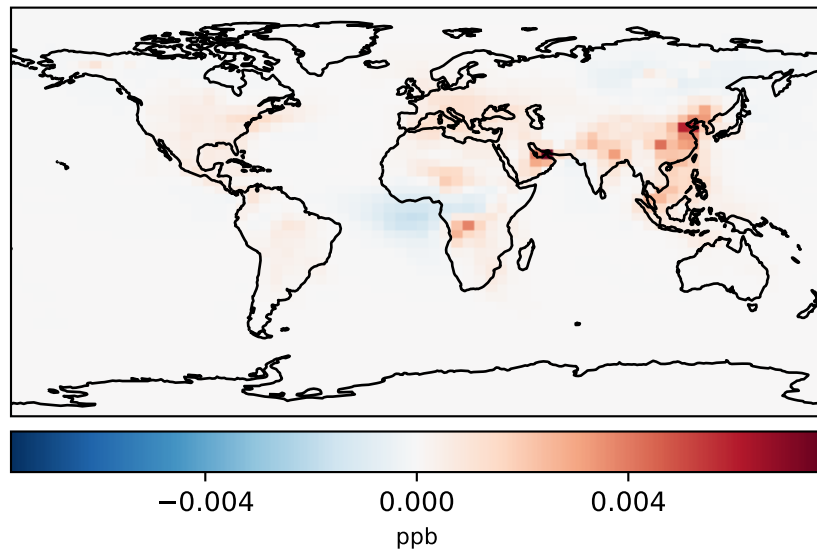
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



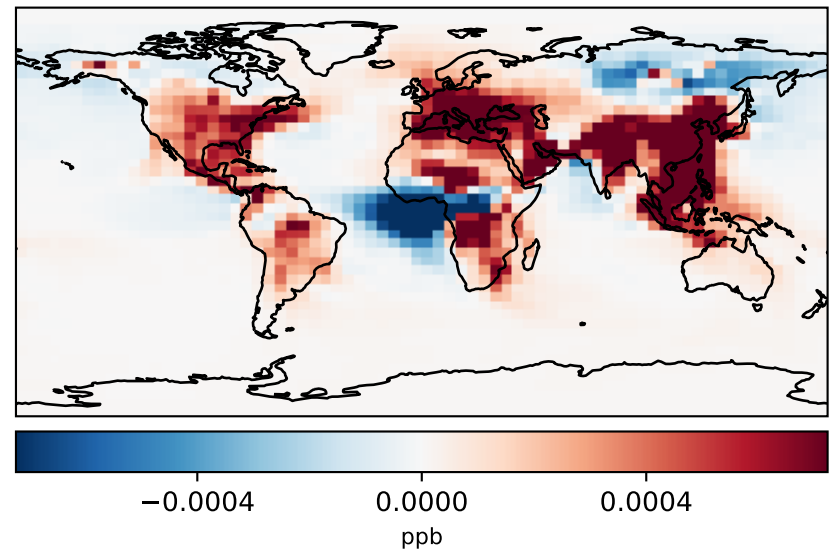
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



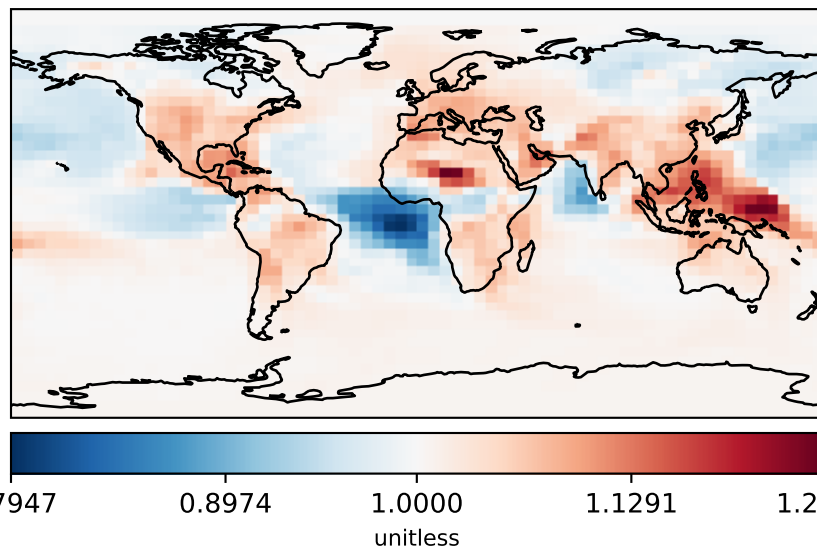
Difference
Dev - Ref, Dynamic Range



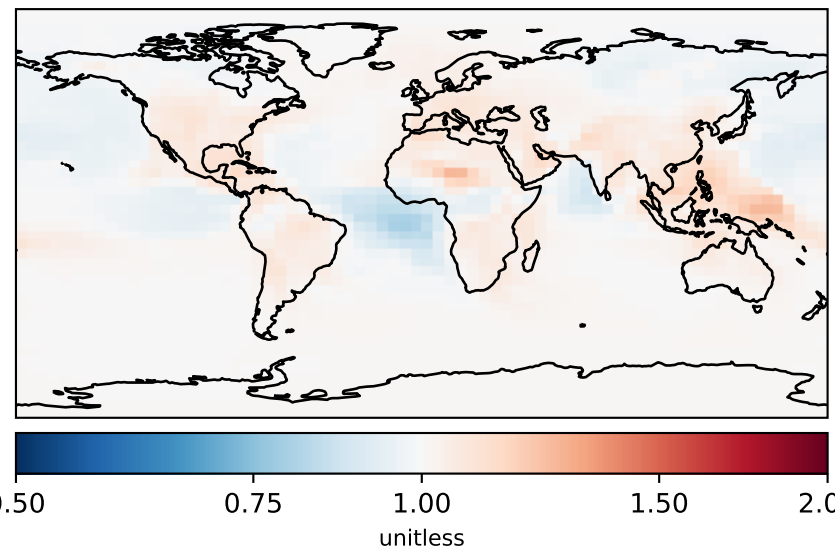
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

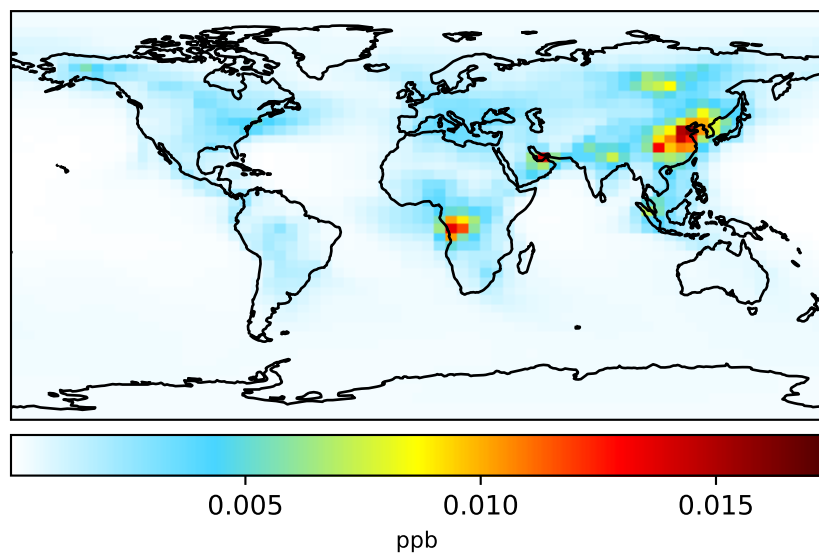


Ratio
Dev/Ref, Fixed Range

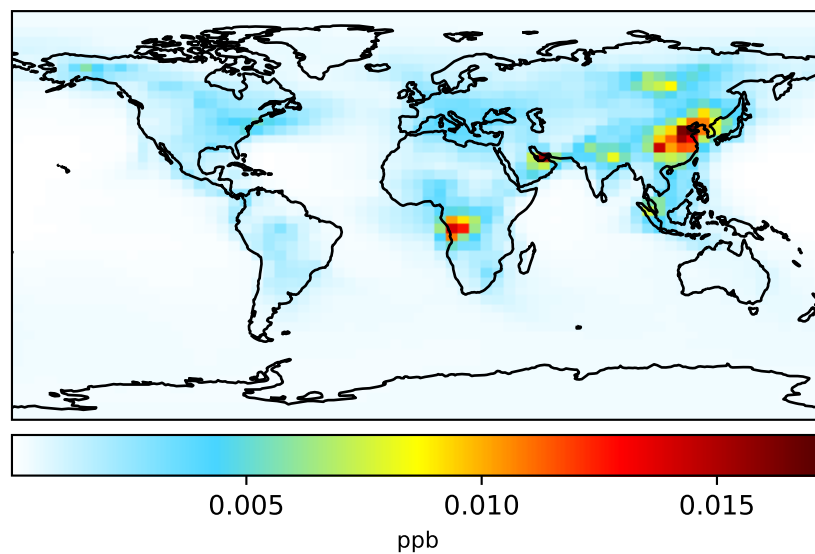


SpeciesConcVV_NPRNO3 (Jul2019)

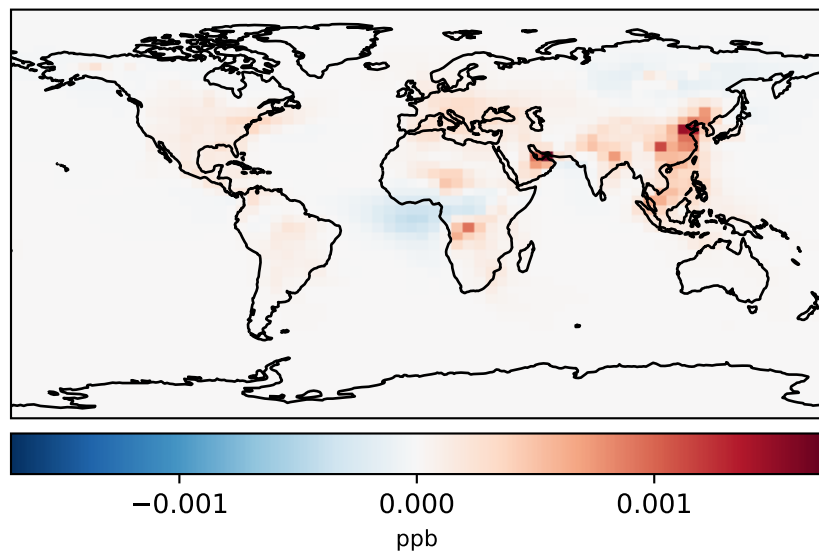
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



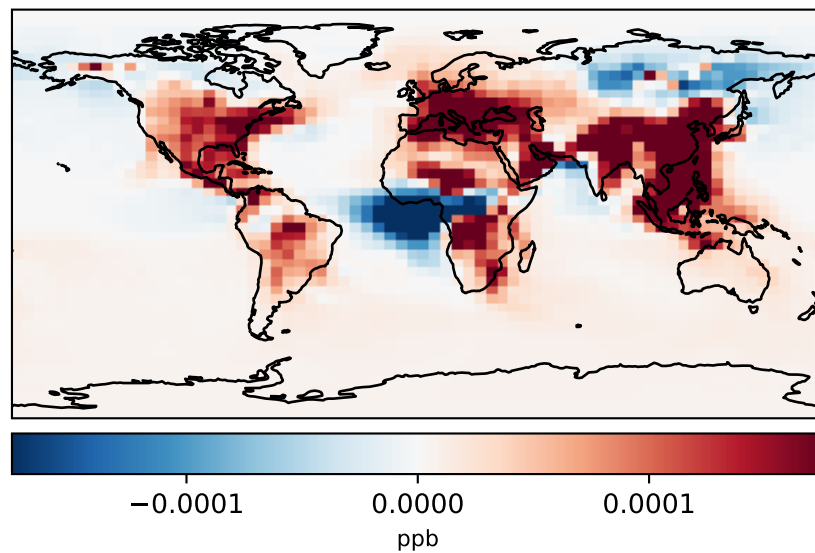
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



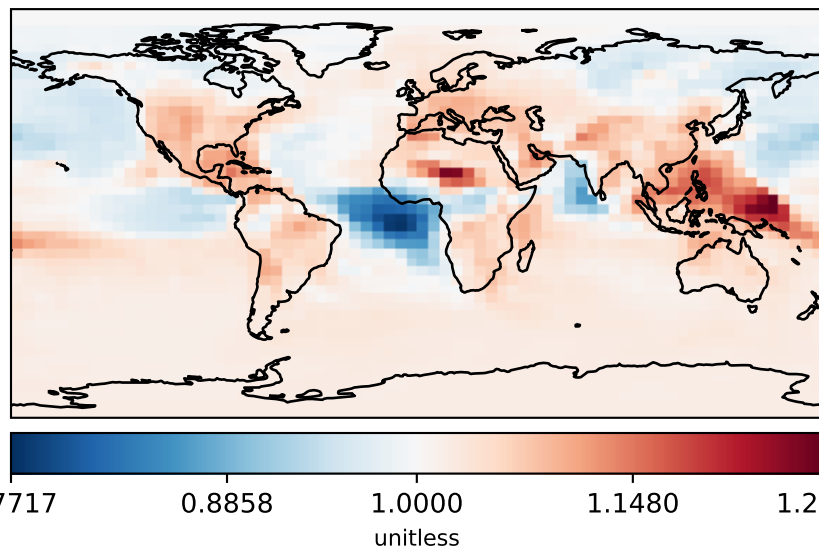
Difference
Dev - Ref, Dynamic Range



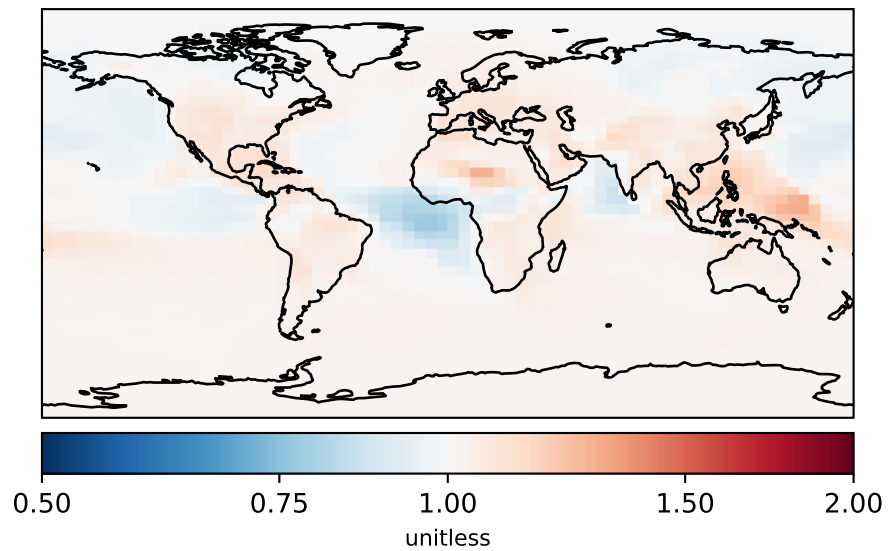
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

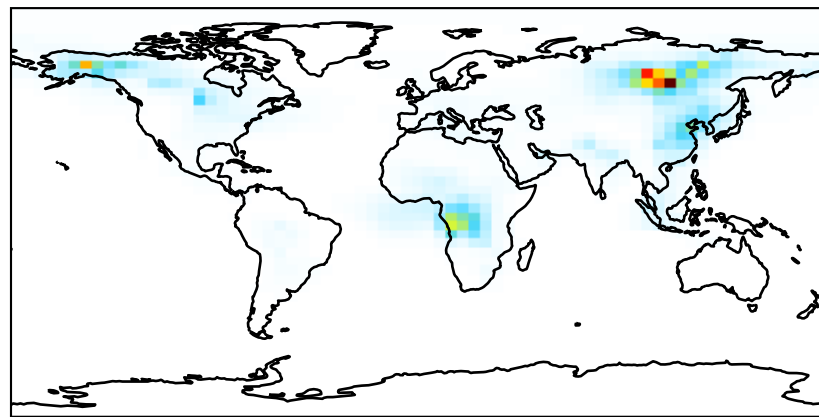


Ratio
Dev/Ref, Fixed Range



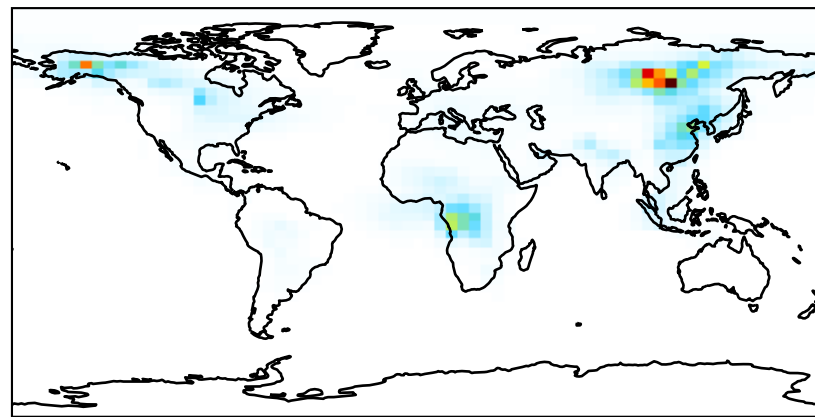
SpeciesConcVV_AONITA (Jul2019)

gcc-14.3.0-rc.0 (Ref)
4.0x5.0



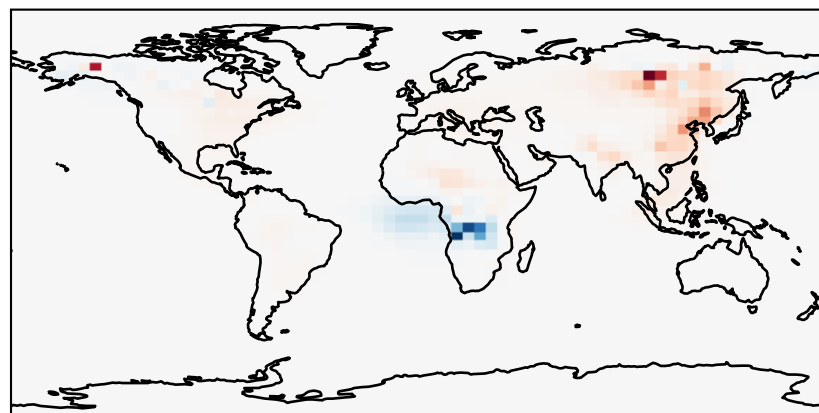
0.0000 0.1812 0.3623 0.5435 0.7246
ppb

gcc-14.4.0-rc.0 (Dev)
4.0x5.0



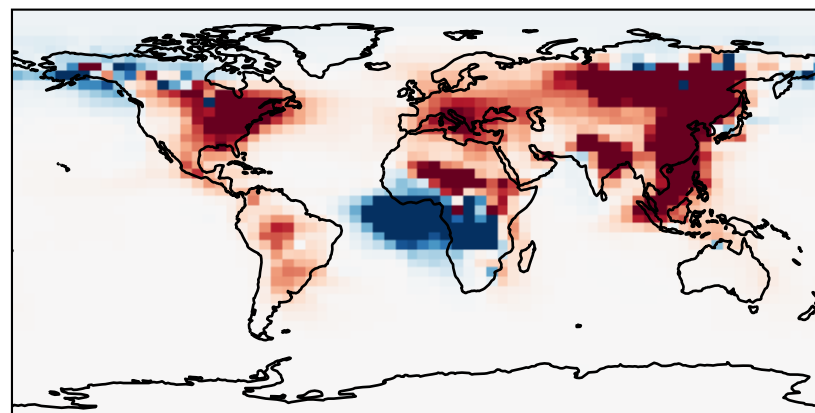
0.0000 0.1812 0.3623 0.5435 0.7246
ppb

Difference
Dev - Ref, Dynamic Range



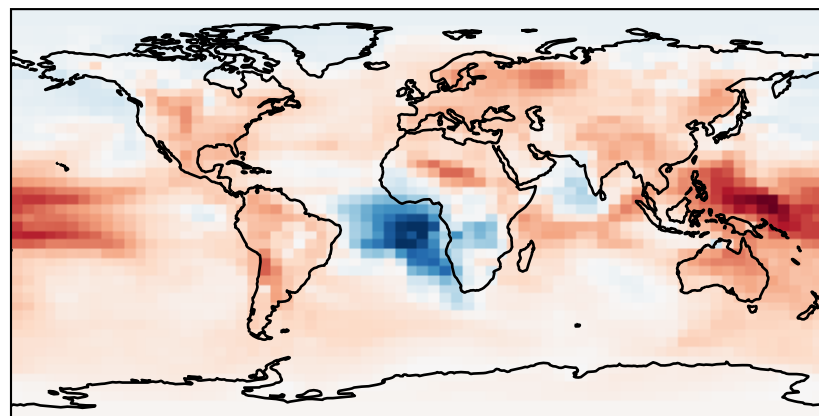
-0.0533 -0.0266 0.0000 0.0266 0.0533
ppb

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



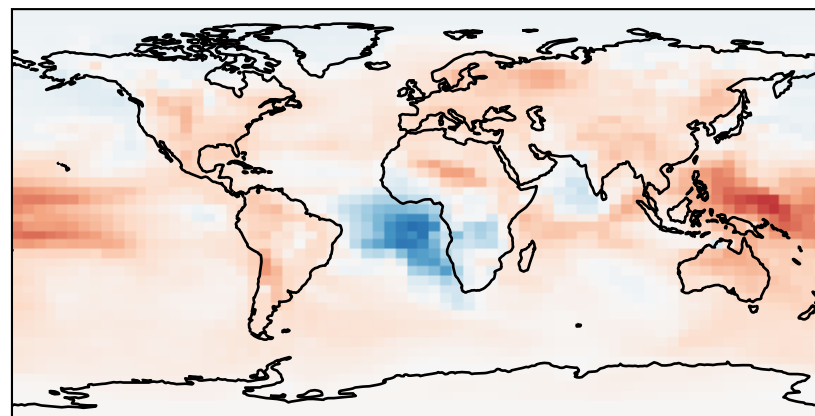
-0.0015 0.0000 0.0015
ppb

Ratio
Dev/Ref, Dynamic Range



0.610 0.805 1.000 1.320 1.639
unitless

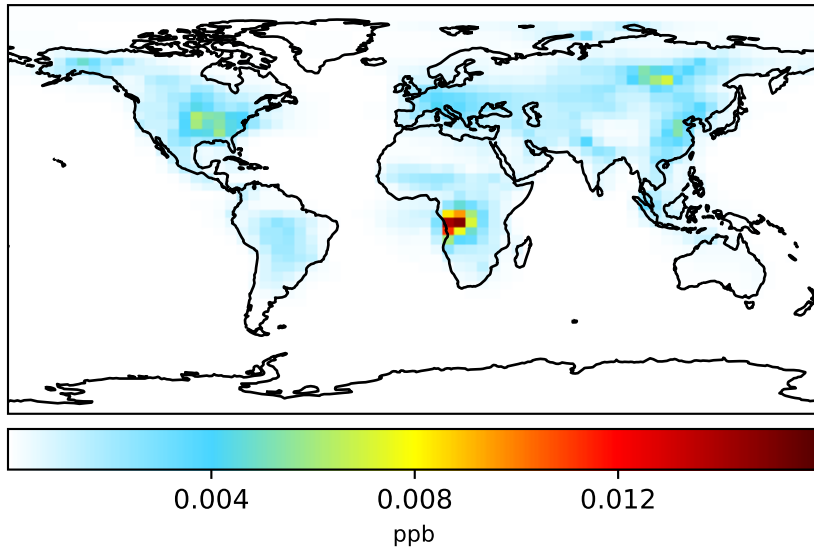
Ratio
Dev/Ref, Fixed Range



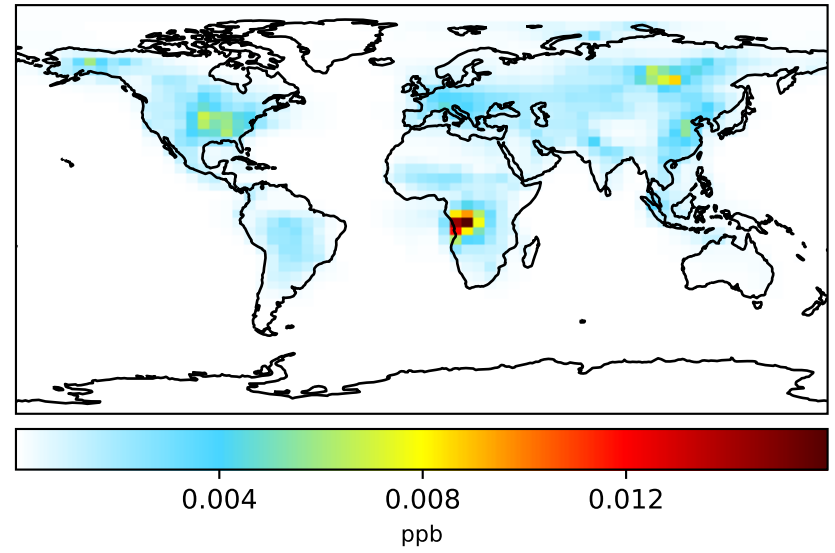
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVW_ETHN (Jul2019)

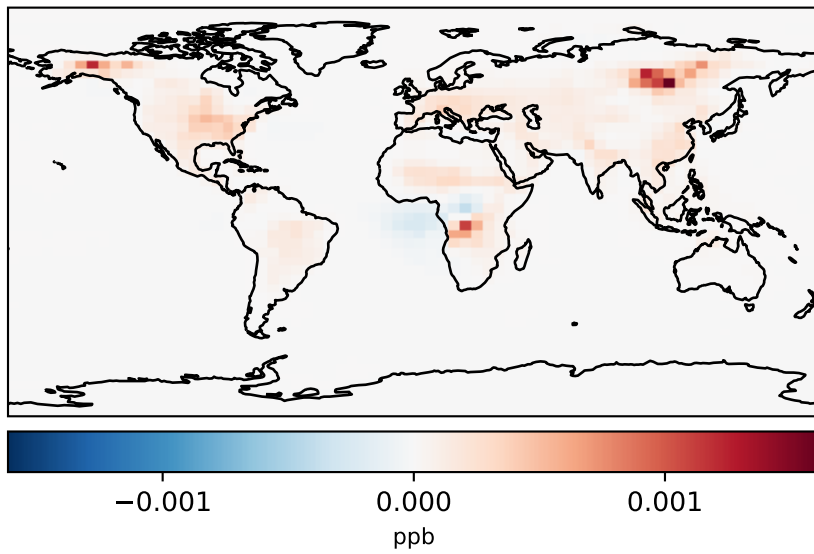
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



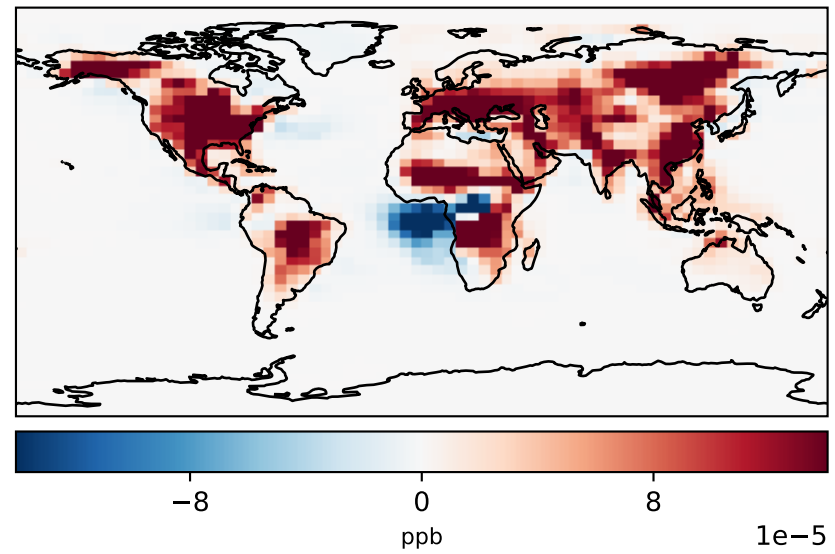
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



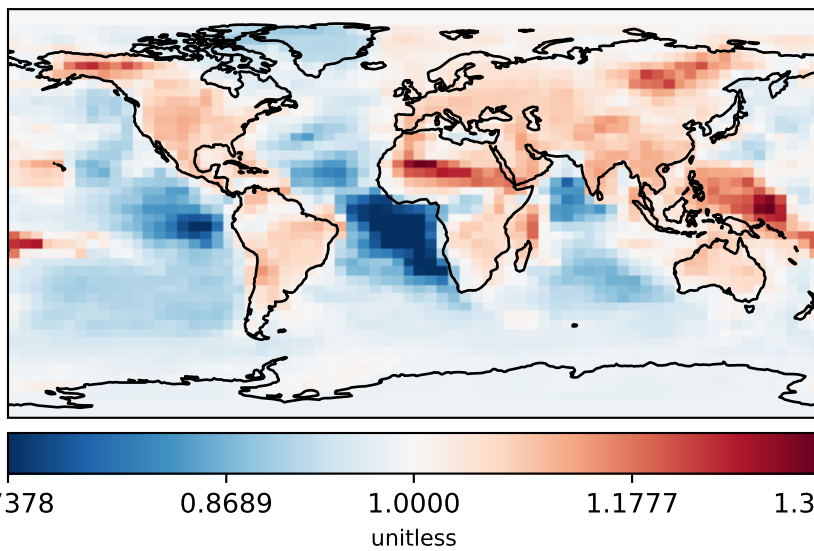
Difference
Dev - Ref, Dynamic Range



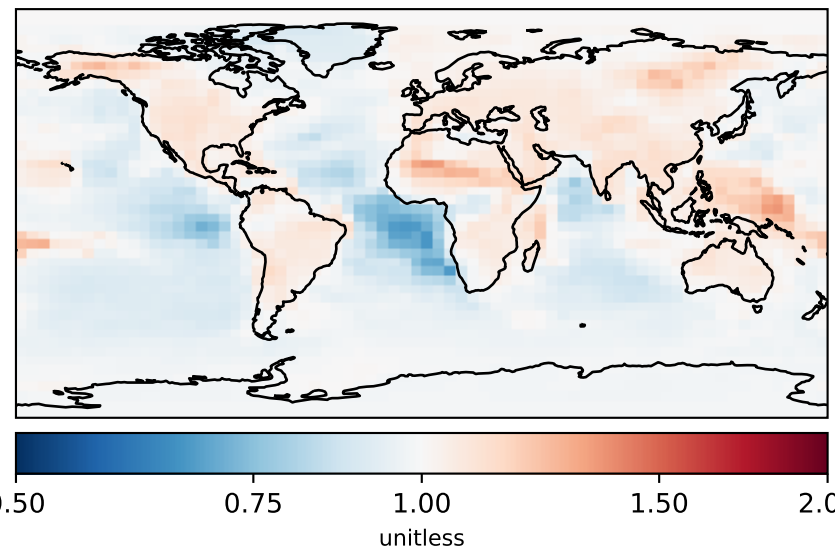
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

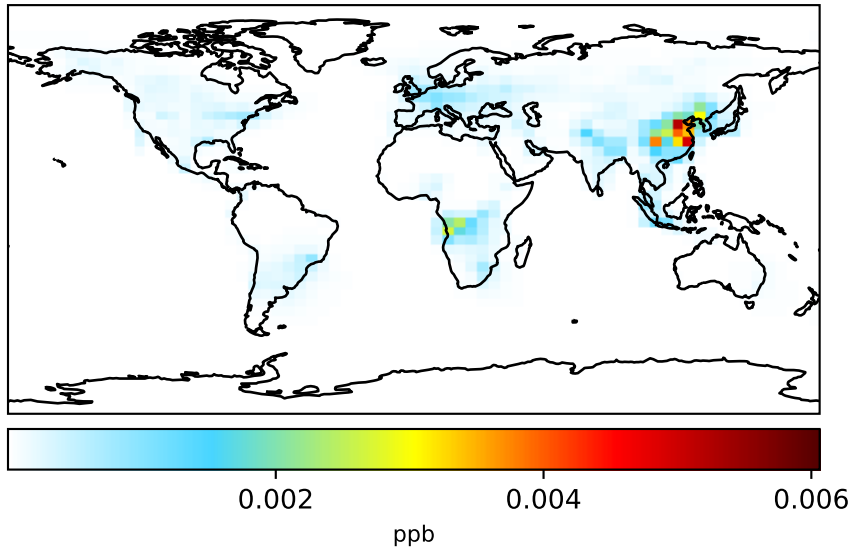


Ratio
Dev/Ref, Fixed Range

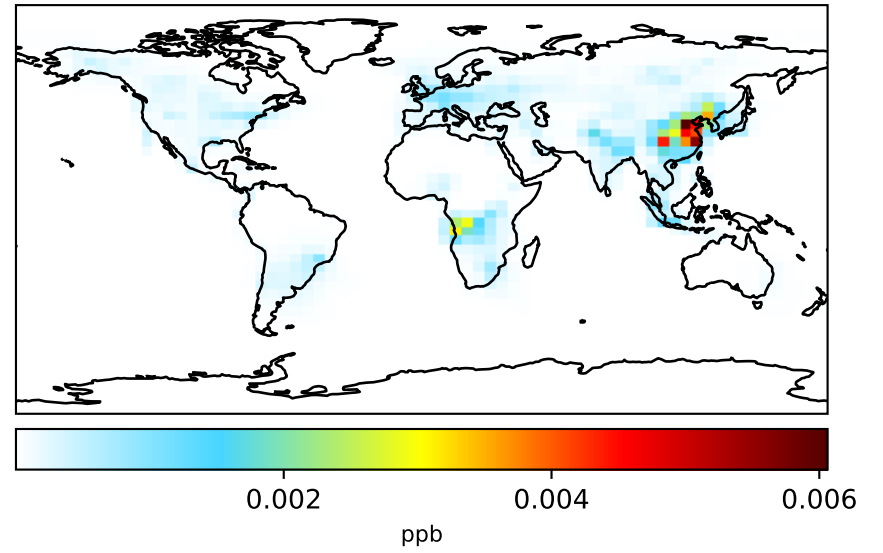


SpeciesConcVV_BZPAN (Jul2019)

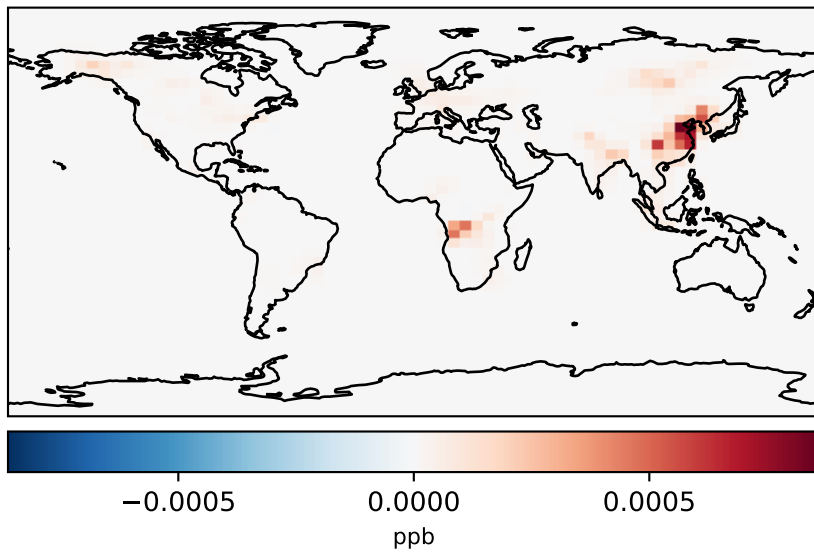
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



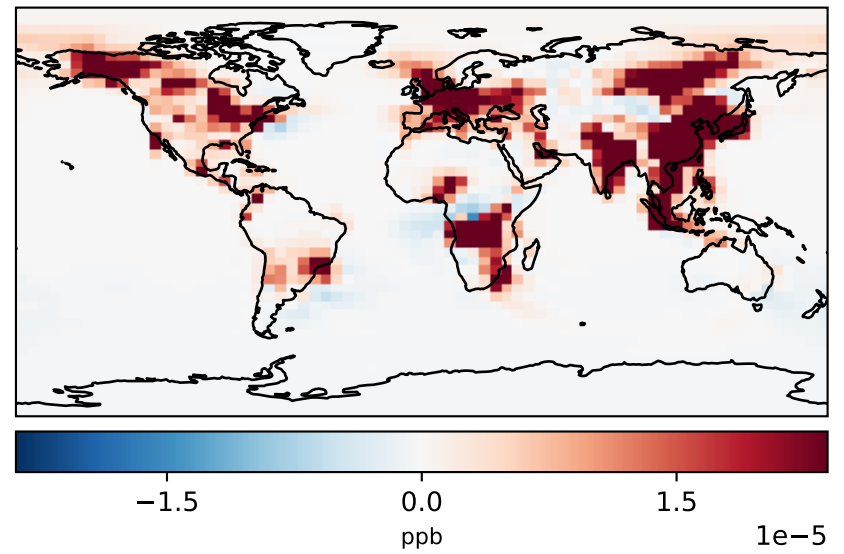
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



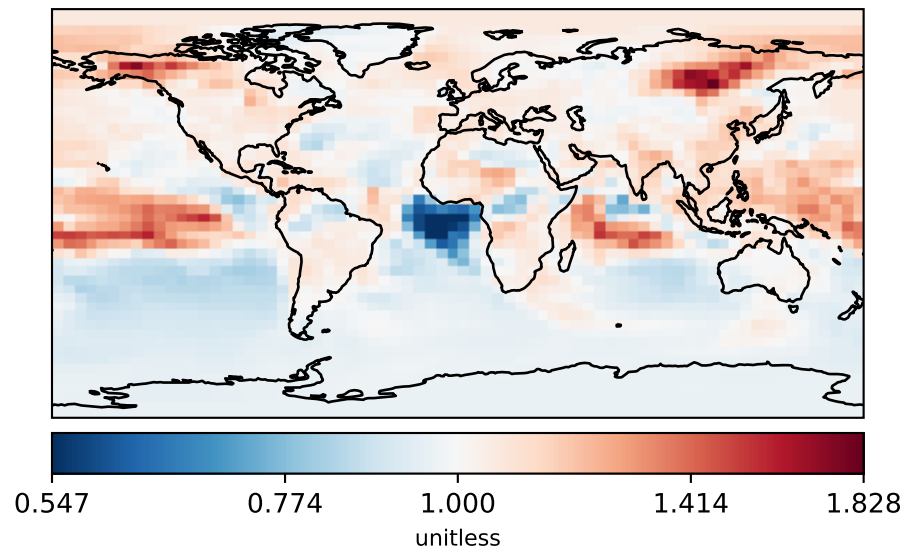
Difference
Dev - Ref, Dynamic Range



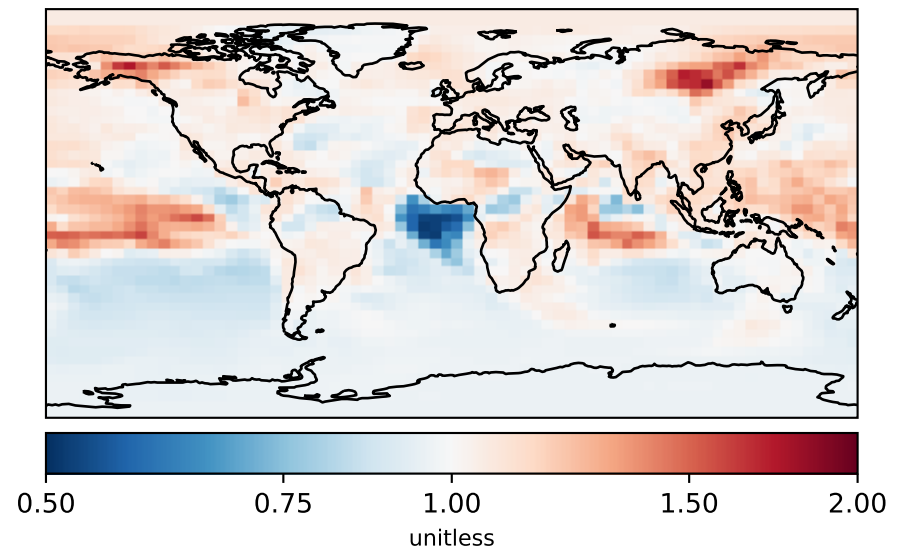
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

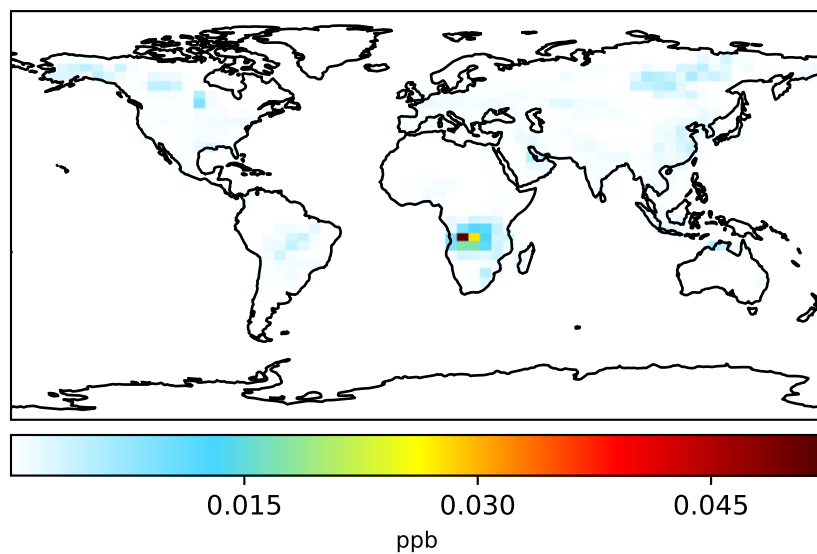


Ratio
Dev/Ref, Fixed Range

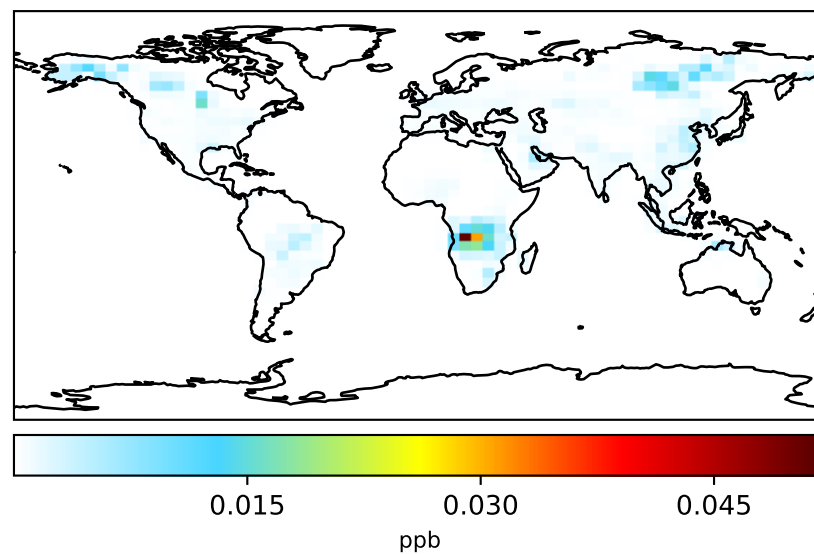


SpeciesConcVV_NPHEN (Jul2019)

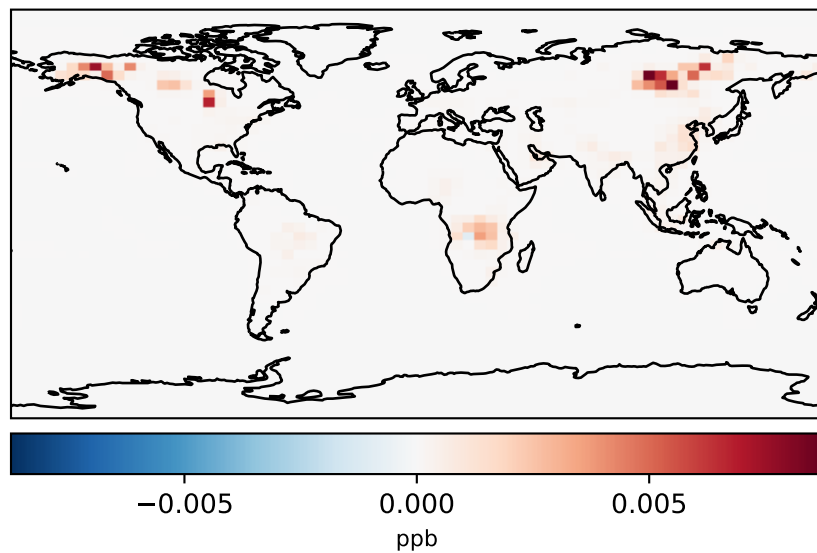
gcc-14.3.0-rc.0 (Ref)
4.0x5.0



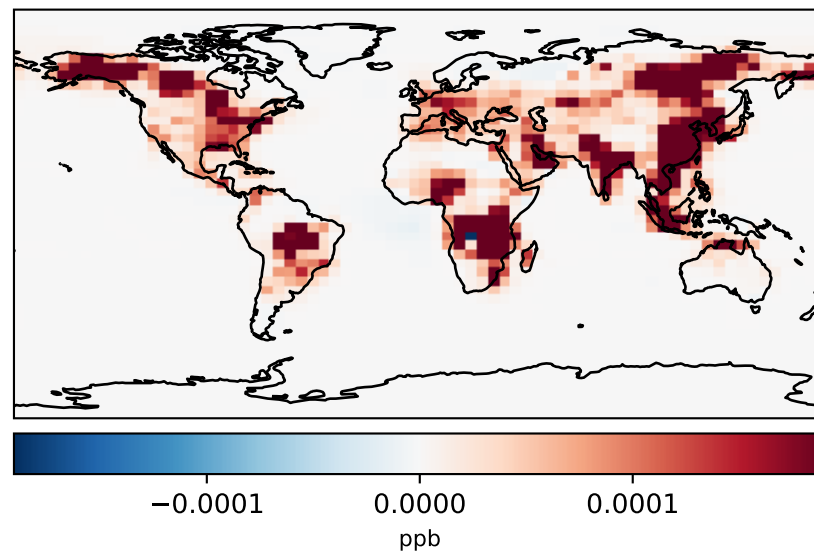
gcc-14.4.0-rc.0 (Dev)
4.0x5.0



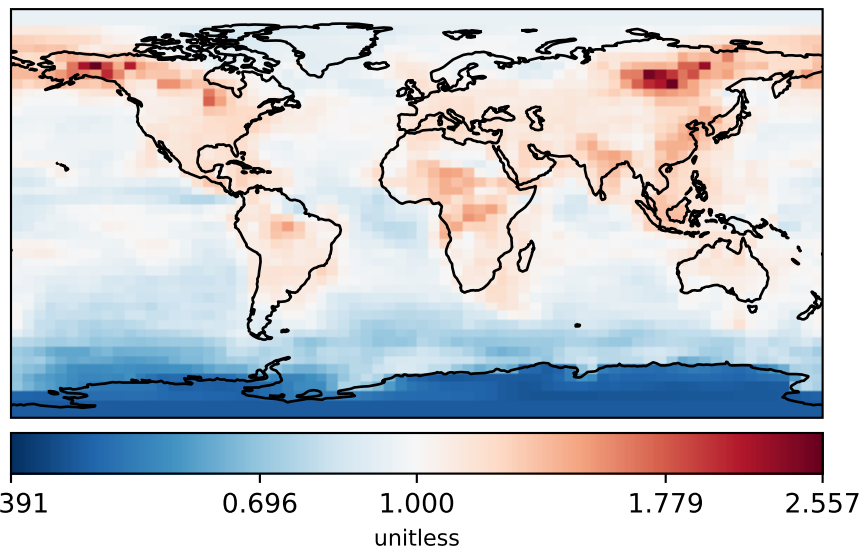
Difference
Dev - Ref, Dynamic Range



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



Ratio
Dev/Ref, Dynamic Range



Ratio
Dev/Ref, Fixed Range

