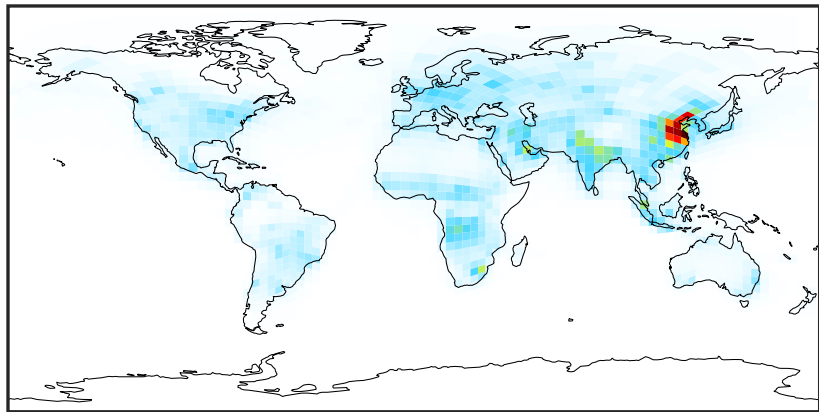


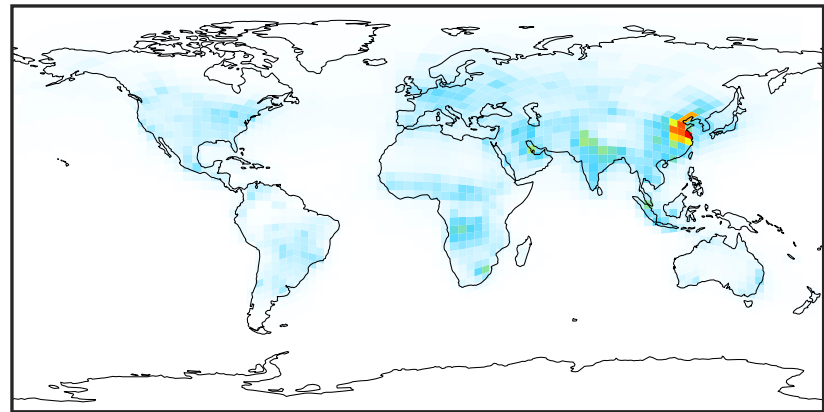
# SpeciesConcVV\_NOy (AnnualMean)

GCHP\_14.0.0 (Ref)  
c24



0.01 6.12 12.25 18.37 24.51  
ppb

GCHP\_14.2.0 (Dev)  
c24



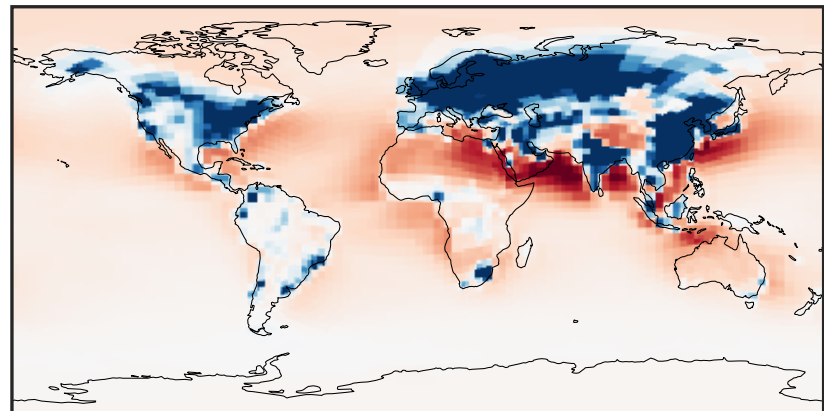
0.01 6.12 12.25 18.37 24.51  
ppb

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



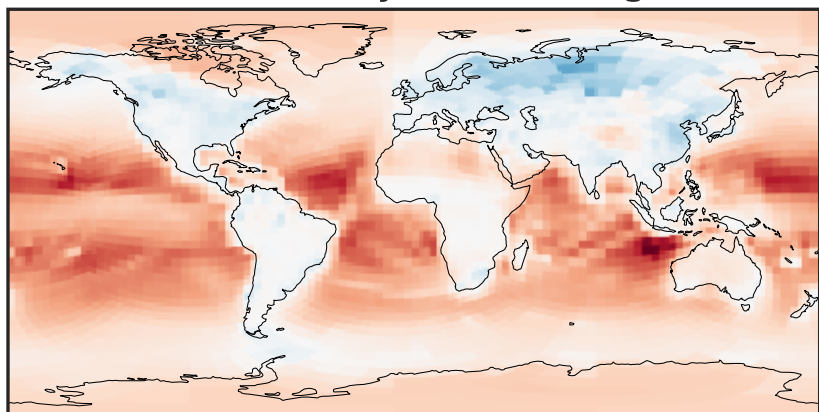
-5.98 -2.99 0.00 2.99 5.98  
ppb

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



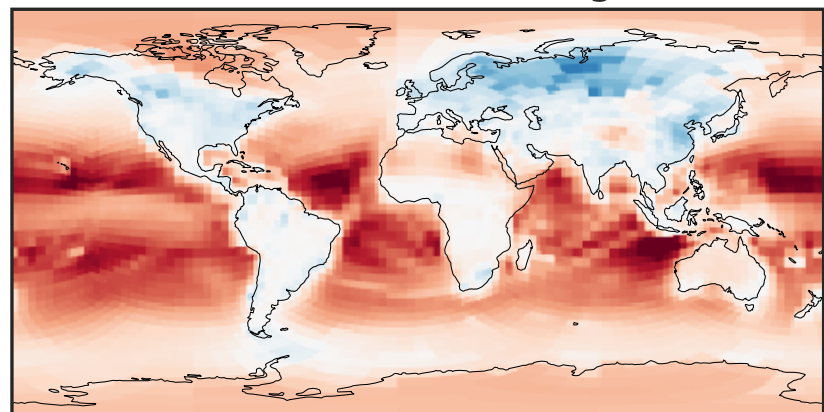
-0.2106 -0.1053 0.0000 0.1053 0.2106  
ppb

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



0.391 0.696 1.000 1.778 2.555  
unitless

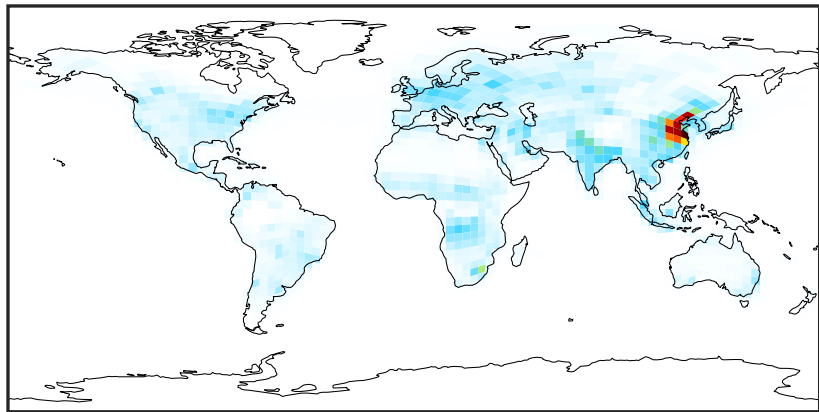
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

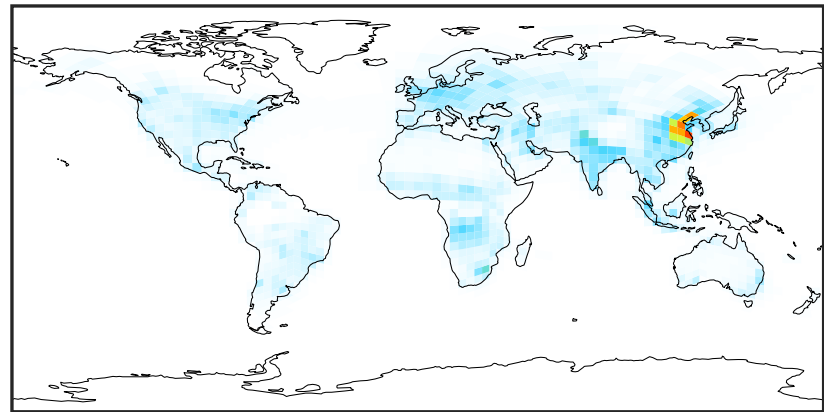
# SpeciesConcVV\_NOx (AnnualMean)

GCHP\_14.0.0 (Ref)  
c24



0.00 5.05 10.10 15.15 20.20  
ppb

GCHP\_14.2.0 (Dev)  
c24



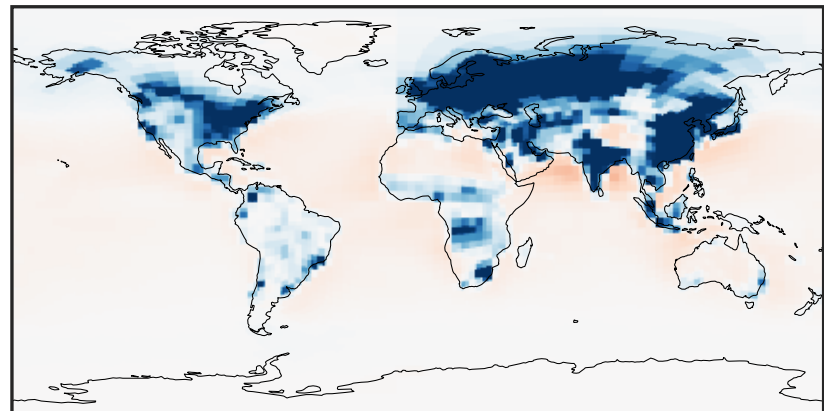
0.00 5.05 10.10 15.15 20.20  
ppb

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



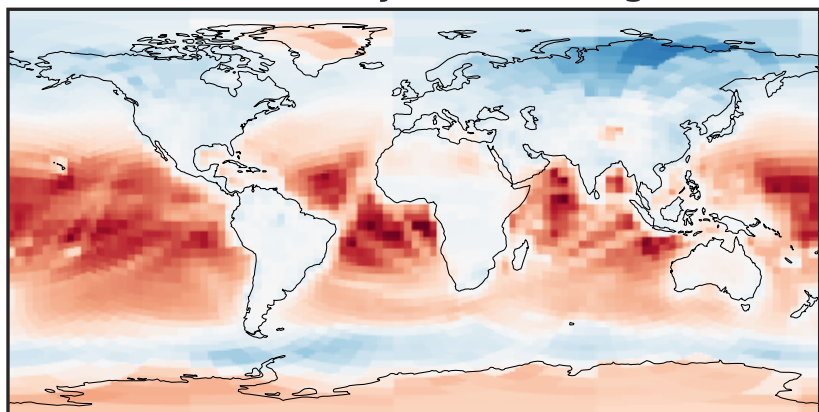
-6.32 -3.16 0.00 3.16 6.32  
ppb

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



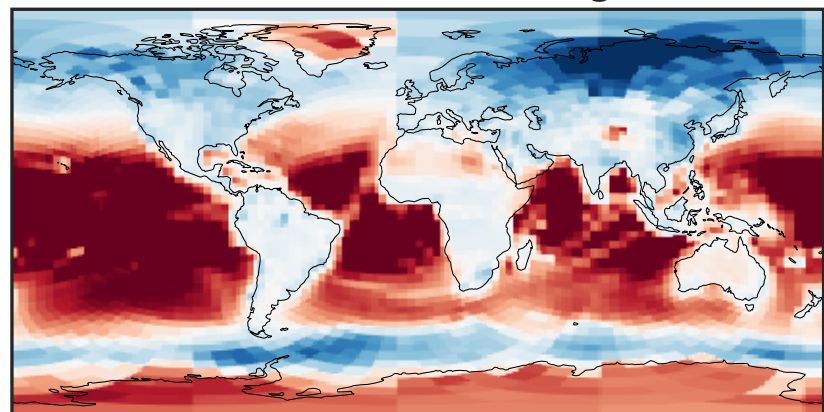
-0.2672 -0.1336 0.0000 0.1336 0.2672  
ppb

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



0.212 0.606 1.000 2.864 4.727  
unitless

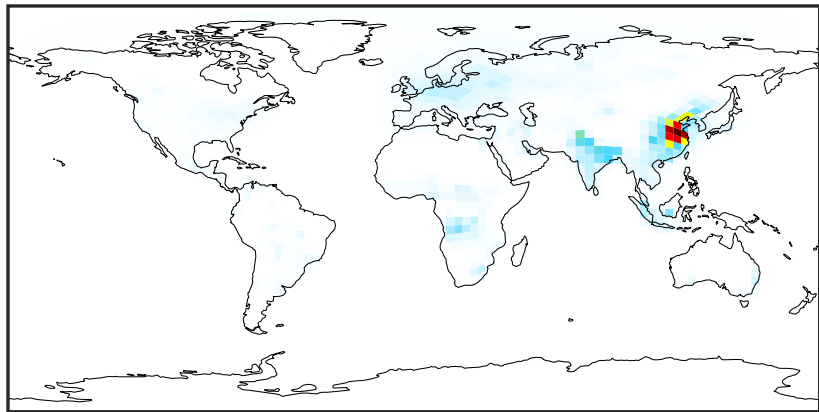
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

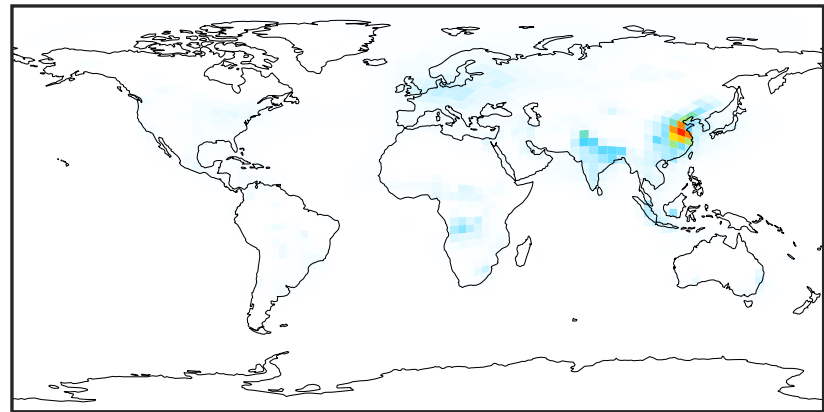
# SpeciesConcVV\_HNO2 (AnnualMean)

GCHP\_14.0.0 (Ref)  
c24



0.000 0.116 0.232 0.348 0.464  
ppb

GCHP\_14.2.0 (Dev)  
c24



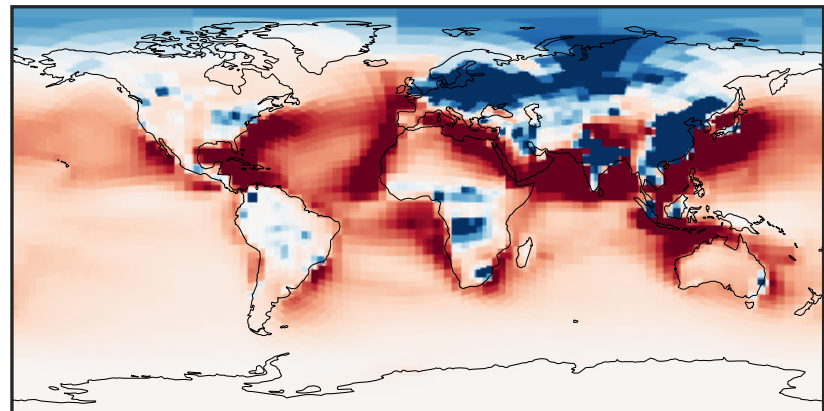
0.000 0.116 0.232 0.348 0.464  
ppb

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



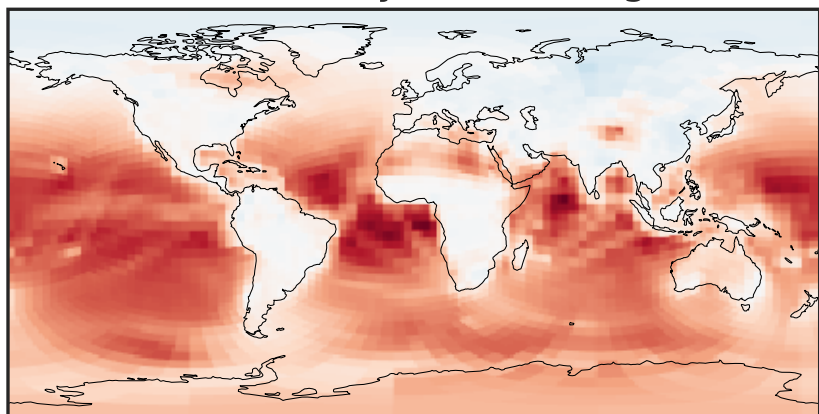
-0.1350 -0.0675 0.0000 0.0675 0.1350  
ppb

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



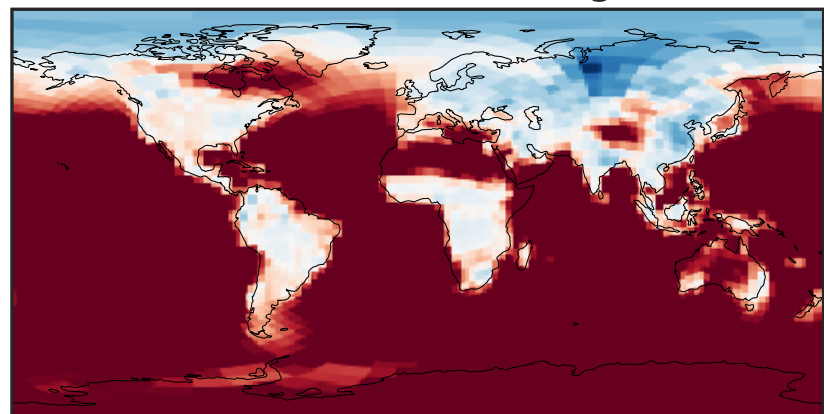
-0.001 0.000 0.001  
ppb

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



1e-01 1 10  
unitless

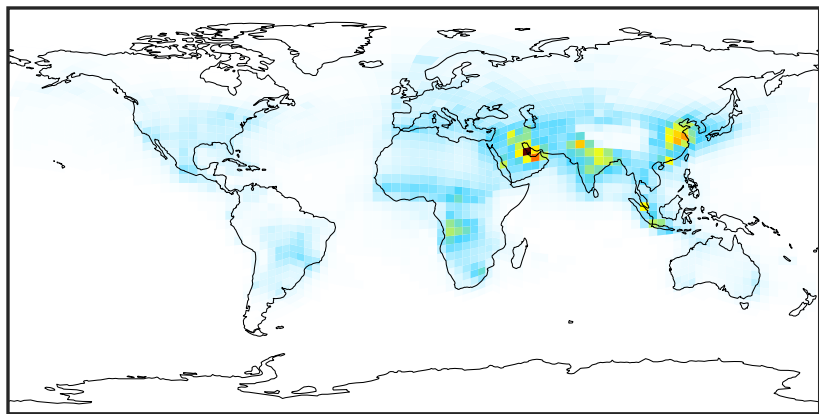
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

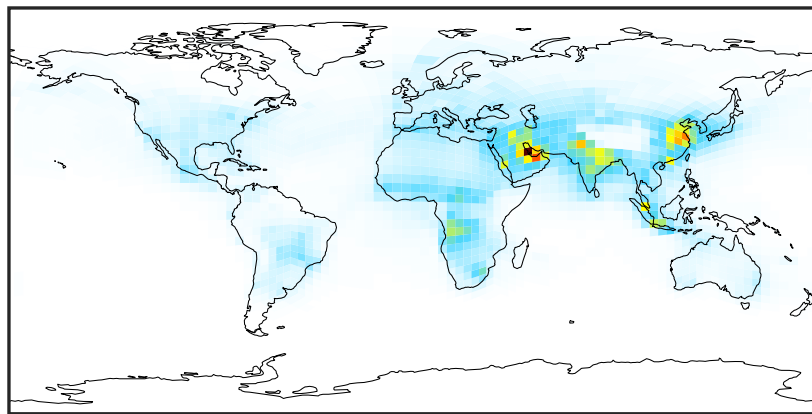
# SpeciesConcVV\_HNO3 (AnnualMean)

GCHP\_14.0.0 (Ref)  
c24



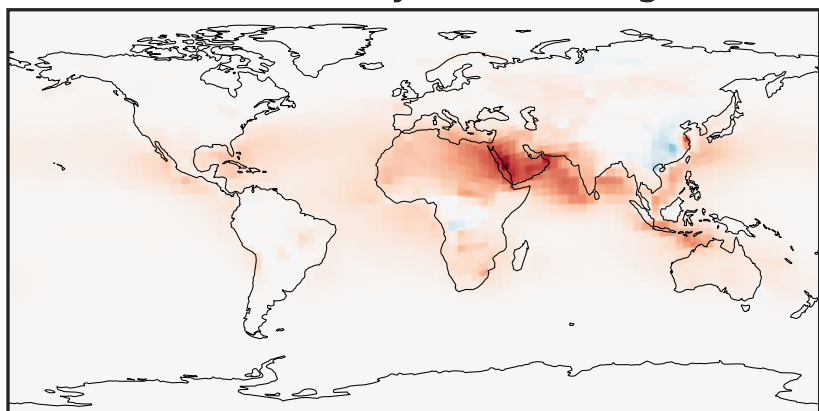
0.000 1.355 2.710 4.066 5.421  
ppb

GCHP\_14.2.0 (Dev)  
c24



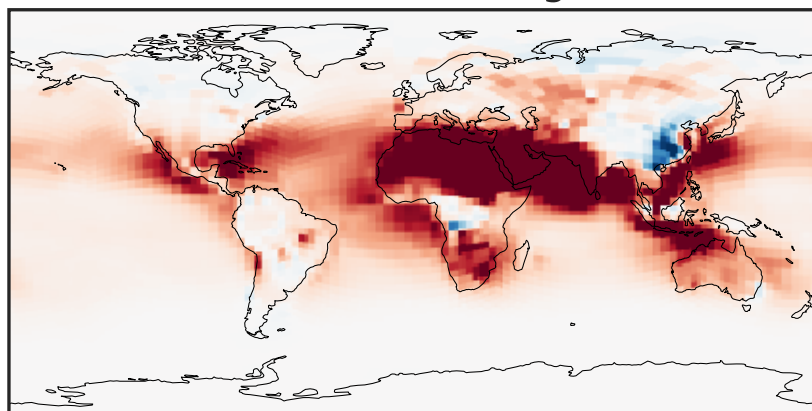
0.000 1.355 2.710 4.066 5.421  
ppb

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



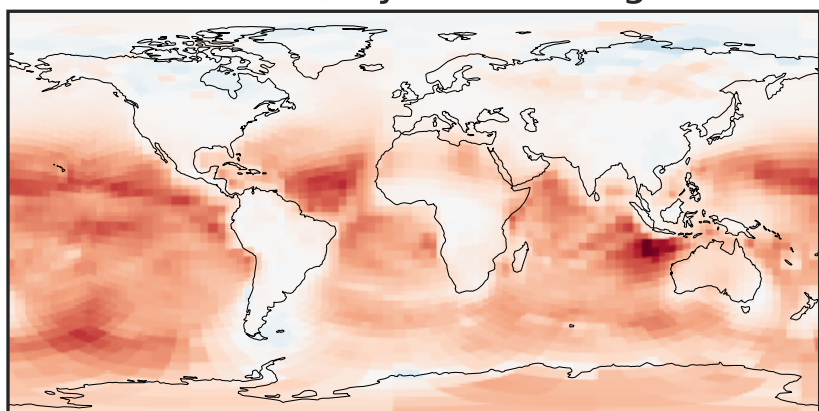
-0.2128 -0.1064 0.0000 0.1064 0.2128  
ppb

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



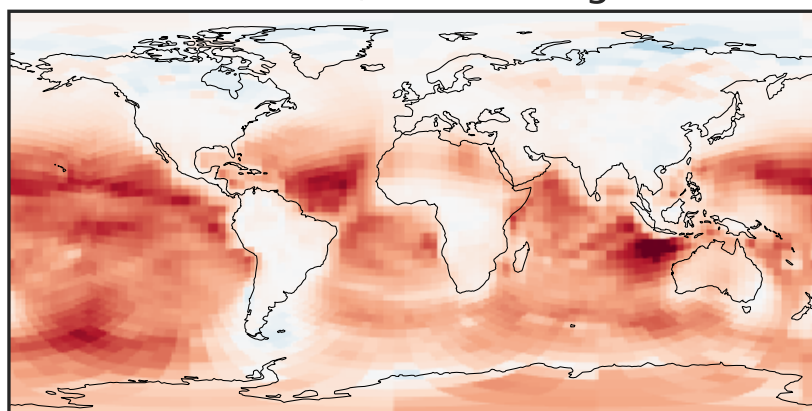
-0.025 0.000 0.025  
ppb

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



0.435 0.717 1.000 1.650 2.300  
unitless

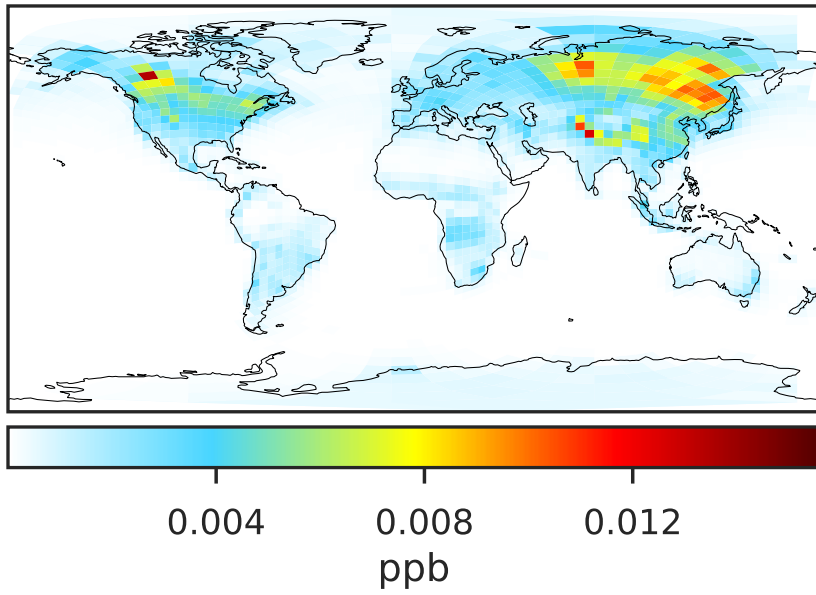
Ratio (1x1.25)  
Dev/Ref, Fixed Range



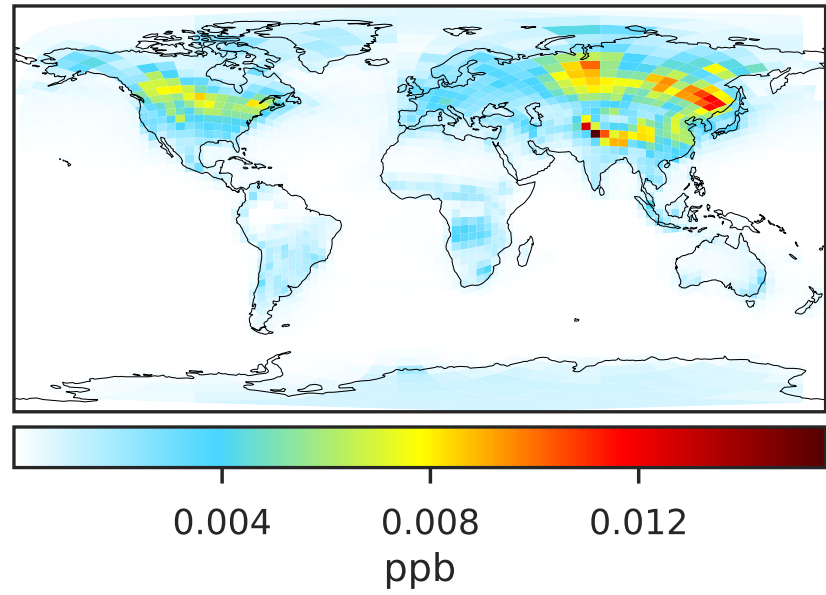
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_HNO4 (AnnualMean)

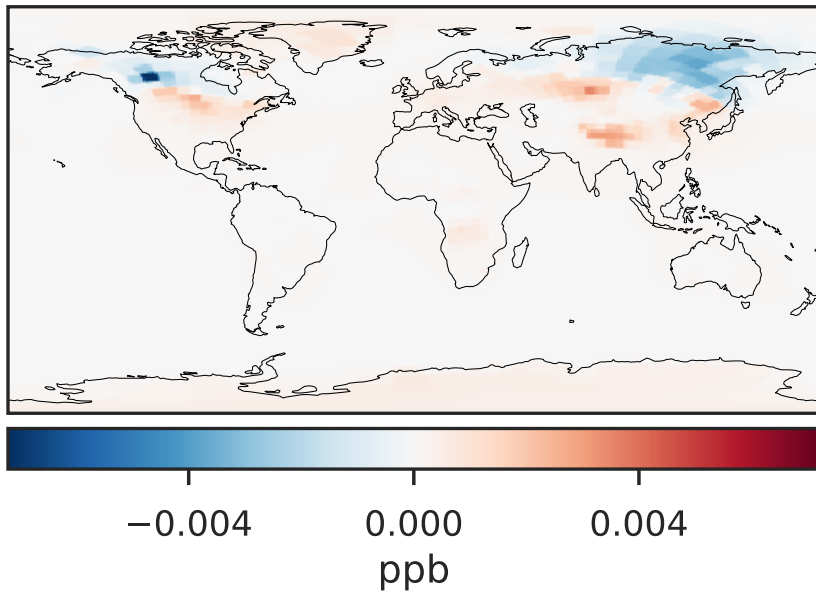
GCHP\_14.0.0 (Ref)  
c24



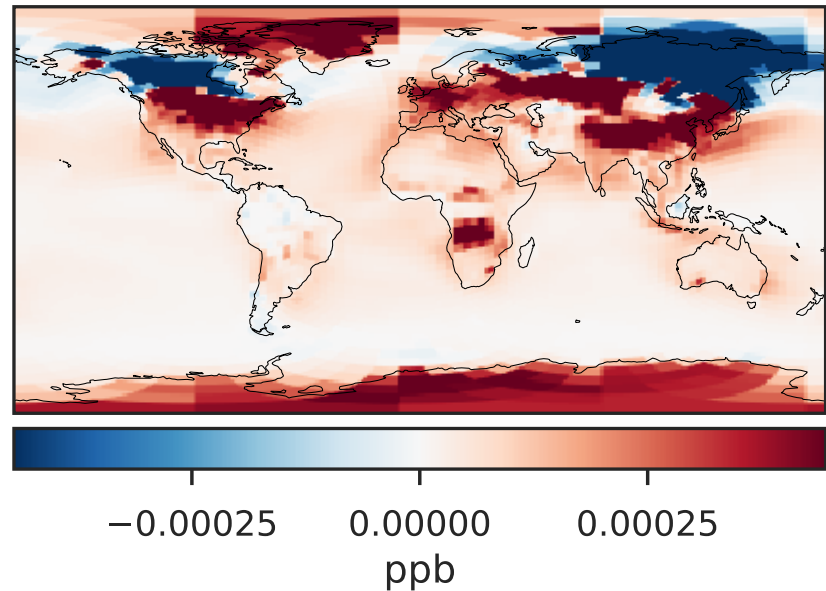
GCHP\_14.2.0 (Dev)  
c24



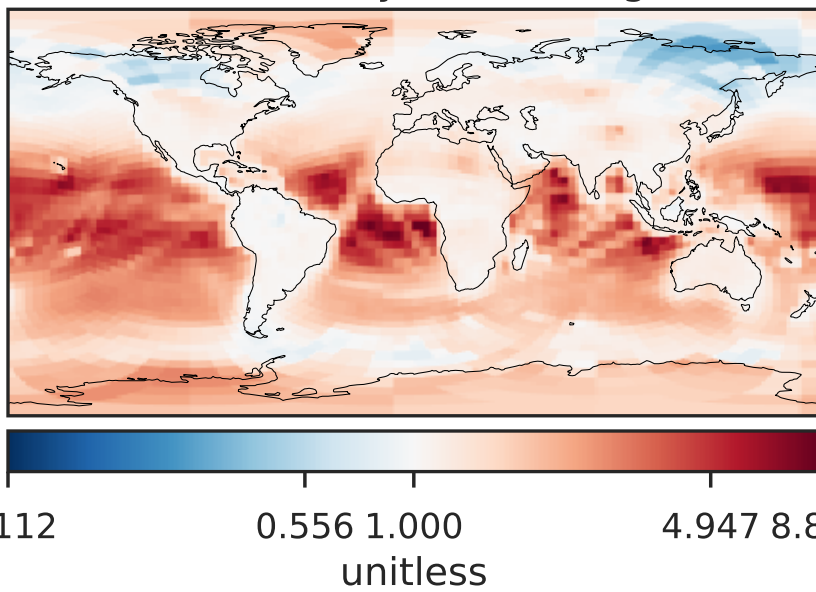
Difference (1x1.25)  
Dev - Ref, Dynamic Range



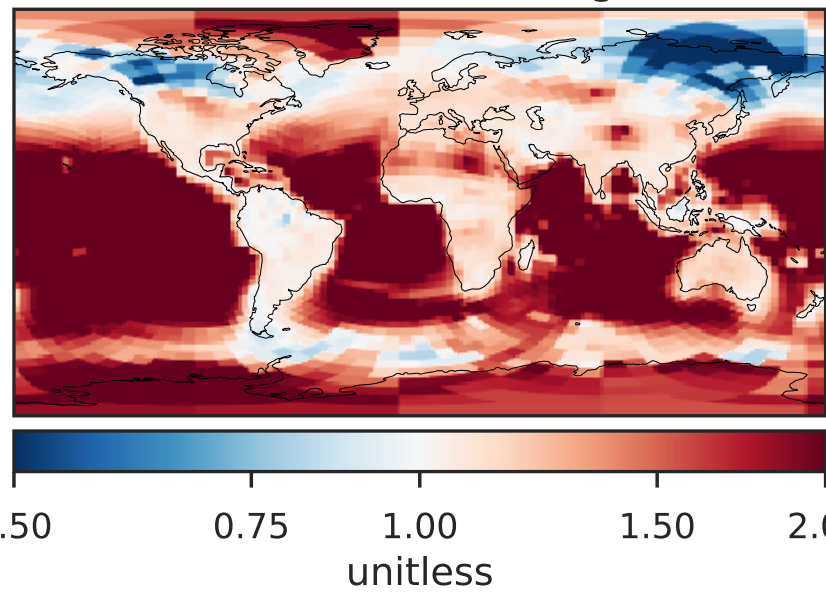
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

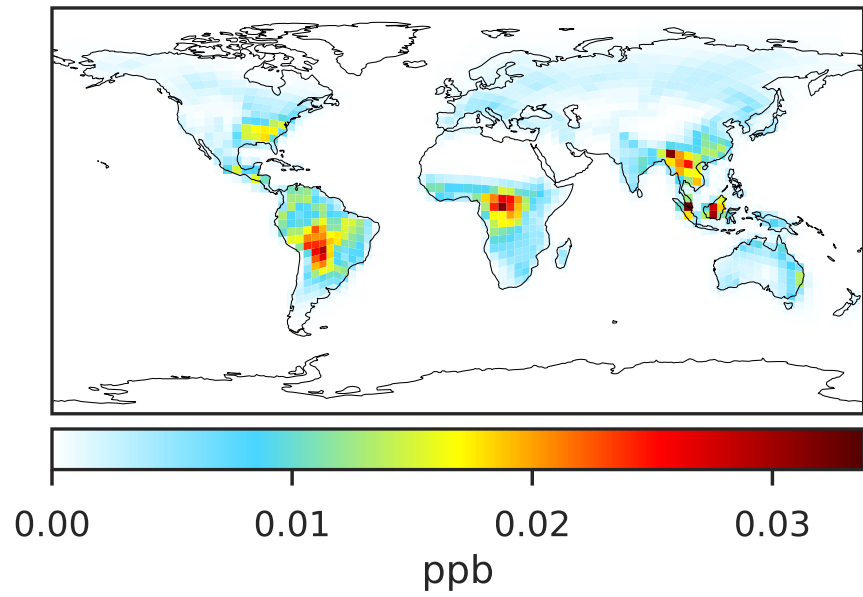


Ratio (1x1.25)  
Dev/Ref, Fixed Range

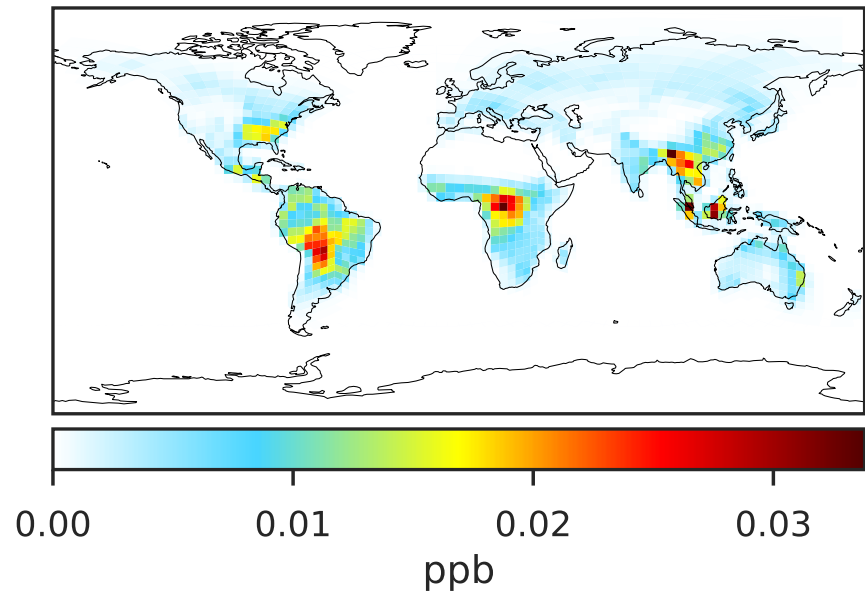


# SpeciesConcVV\_MPAN (AnnualMean)

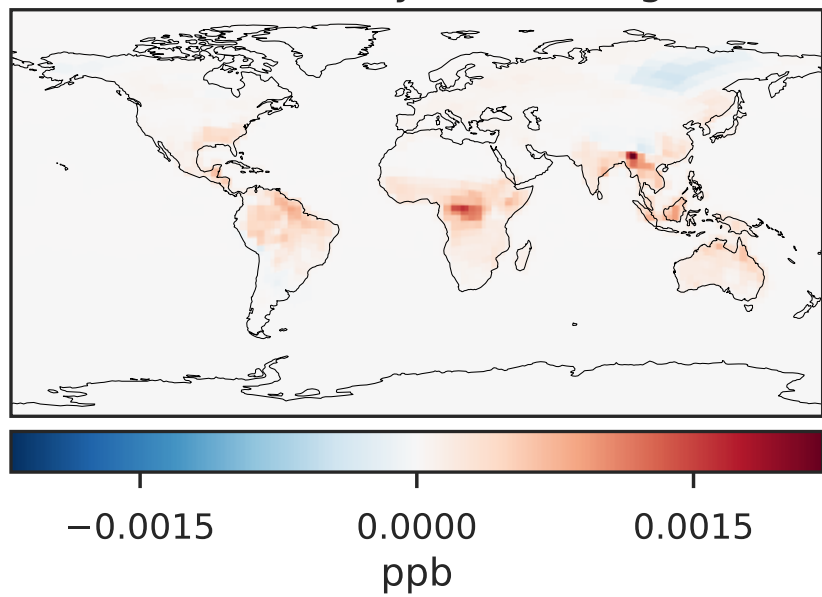
GCHP\_14.0.0 (Ref)  
c24



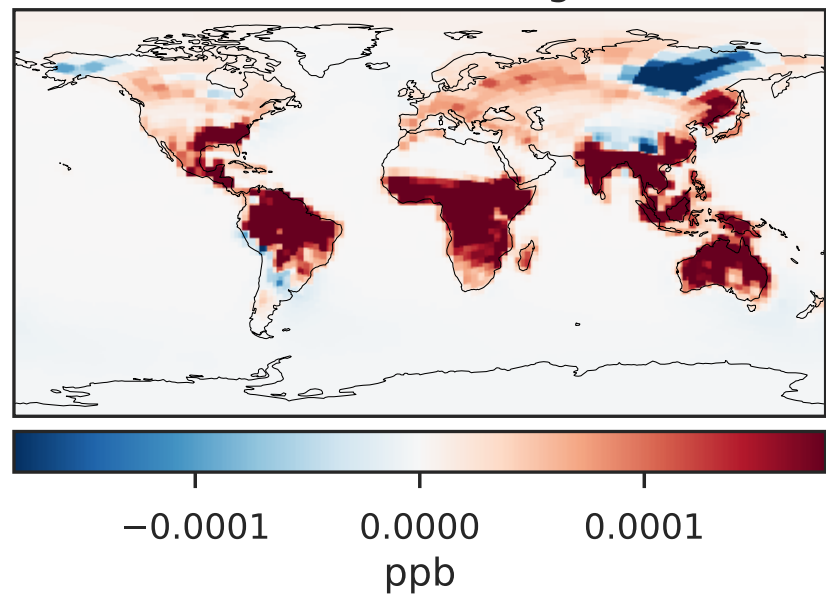
GCHP\_14.2.0 (Dev)  
c24



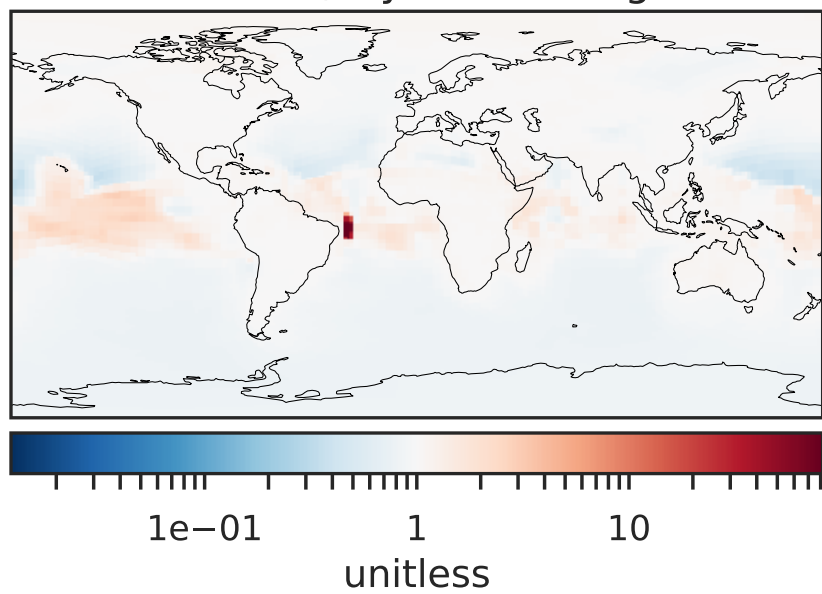
Difference (1x1.25)  
Dev - Ref, Dynamic Range



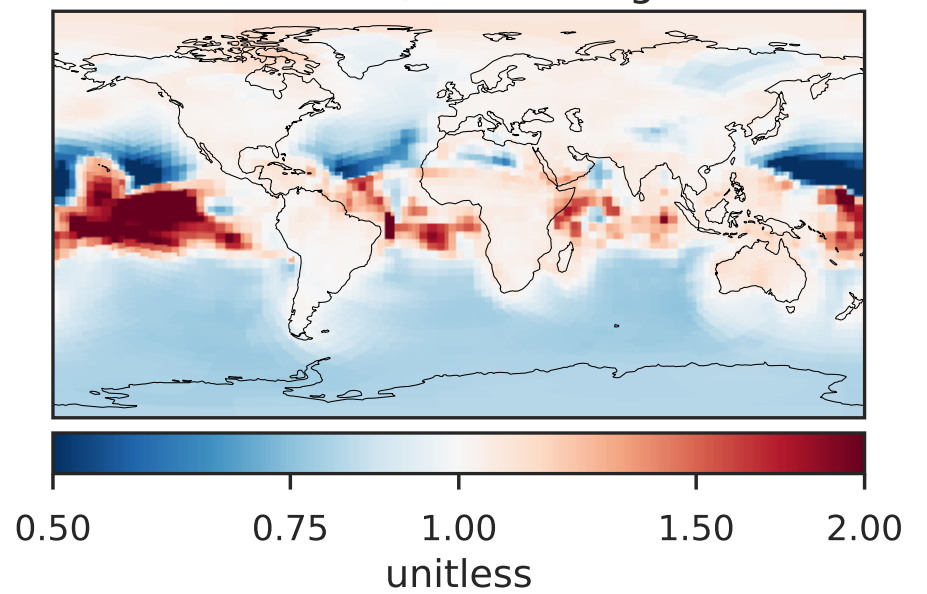
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

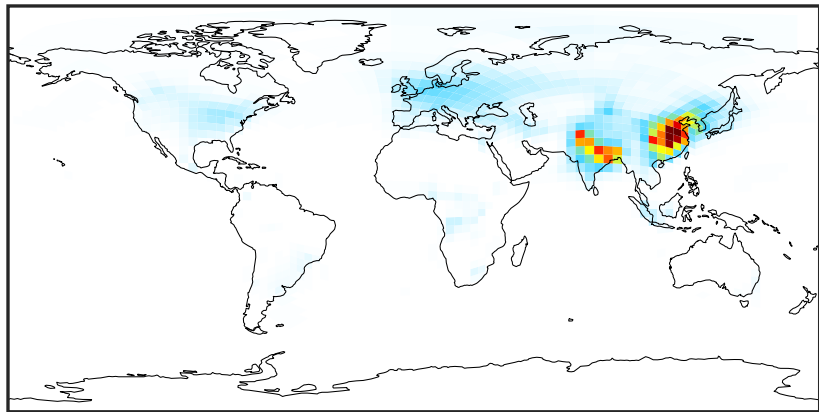


Ratio (1x1.25)  
Dev/Ref, Fixed Range



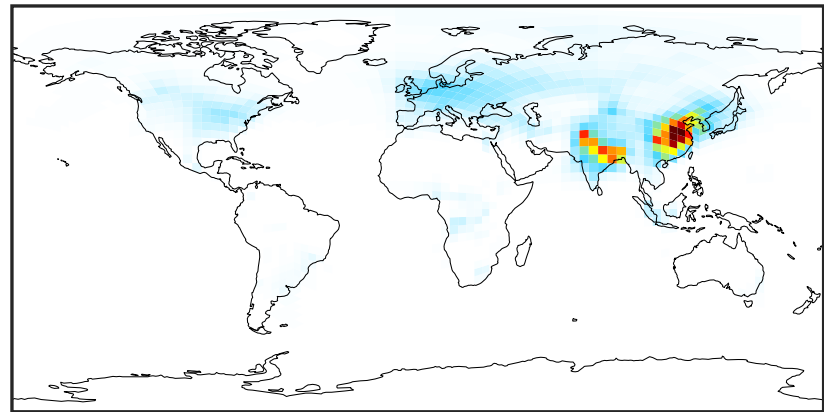
# SpeciesConcVV\_NIT (AnnualMean)

GCHP\_14.0.0 (Ref)  
c24



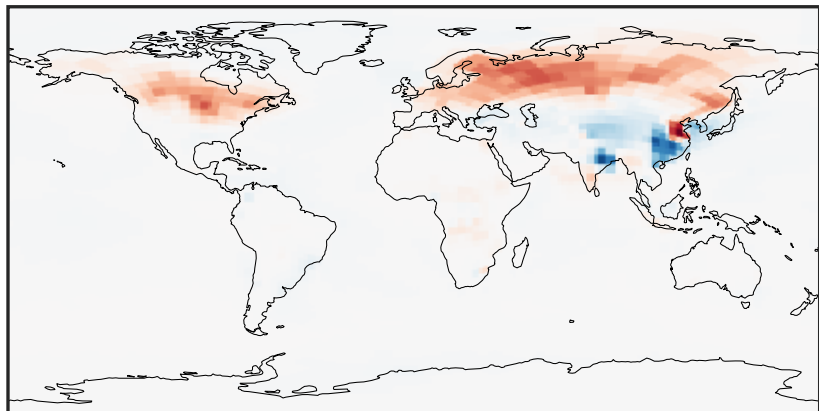
0.000 2.139 4.278 6.418 8.557  
ppb

GCHP\_14.2.0 (Dev)  
c24



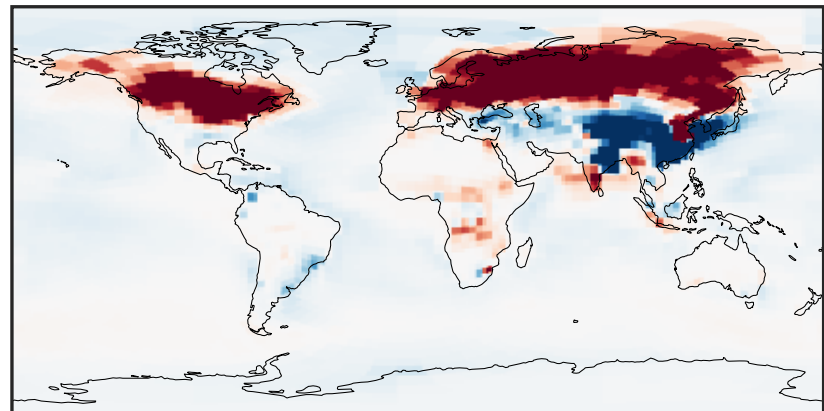
0.000 2.139 4.278 6.418 8.557  
ppb

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



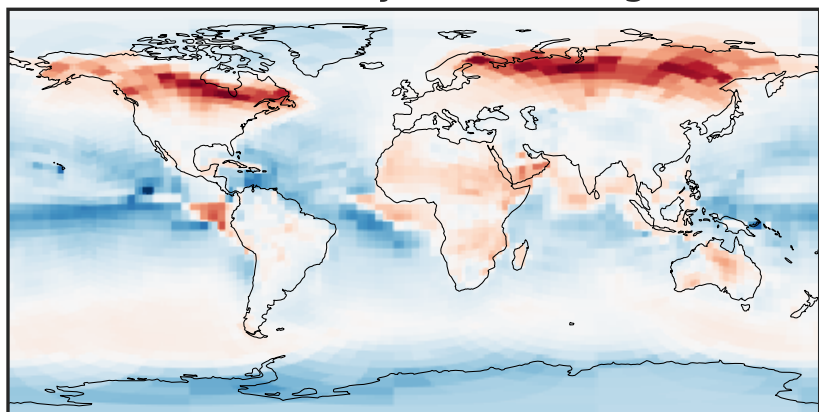
-0.28 -0.14 0.00 0.14 0.28  
ppb

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



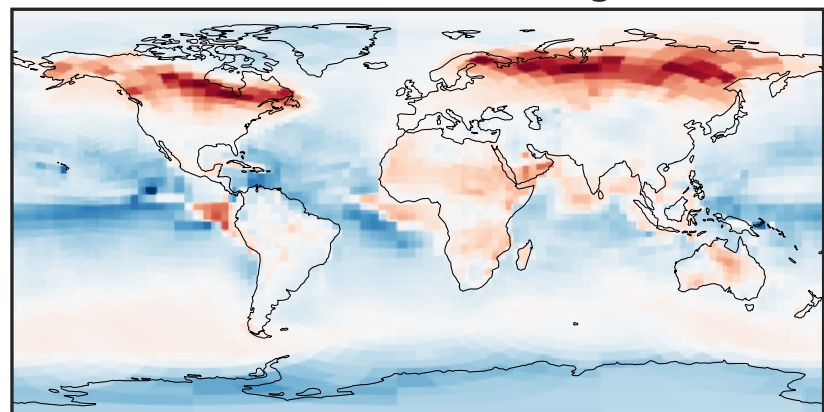
-0.025 0.000 0.025  
ppb

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



0.491 0.746 1.000 1.518 2.036  
unitless

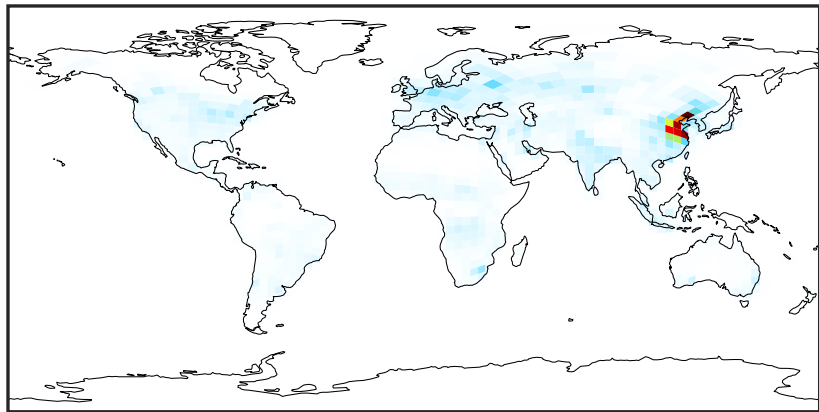
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

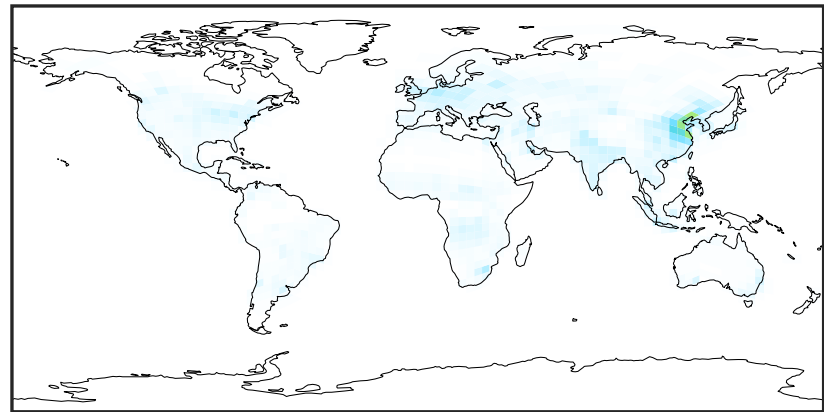
# SpeciesConcVV\_NO (AnnualMean)

GCHP\_14.0.0 (Ref)  
c24



0.000 1.052 2.104 3.156 4.208  
ppb

GCHP\_14.2.0 (Dev)  
c24



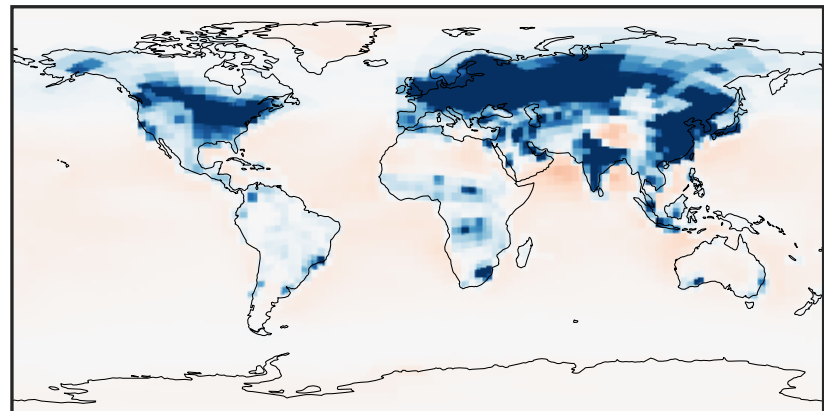
0.000 1.052 2.104 3.156 4.208  
ppb

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



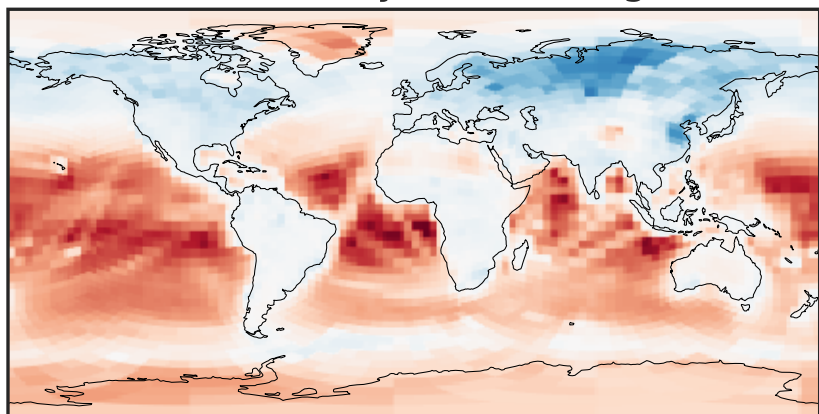
-2.628 -1.314 0.000 1.314 2.628  
ppb

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



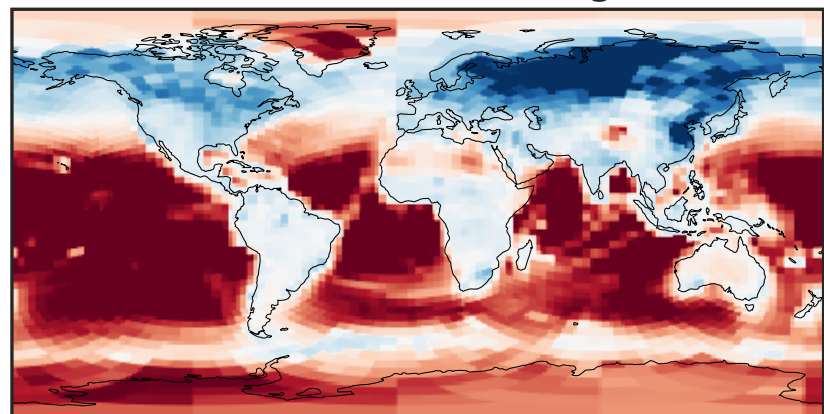
-0.015 0.000 0.015  
ppb

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



0.178 0.589 1.000 3.316 5.633  
unitless

Ratio (1x1.25)  
Dev/Ref, Fixed Range

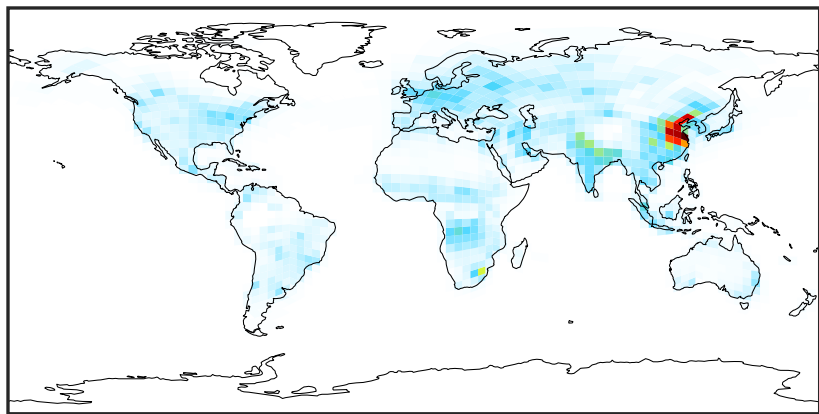


0.50 0.75 1.00 1.50 2.00  
unitless



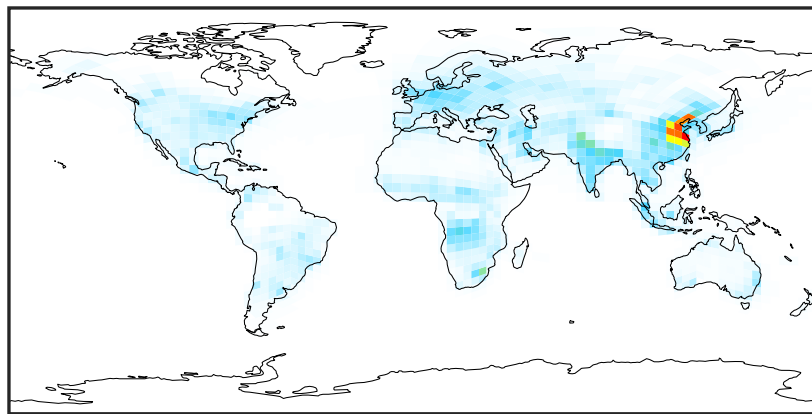
# SpeciesConcVW\_NO2 (AnnualMean)

GCHP\_14.0.0 (Ref)  
c24



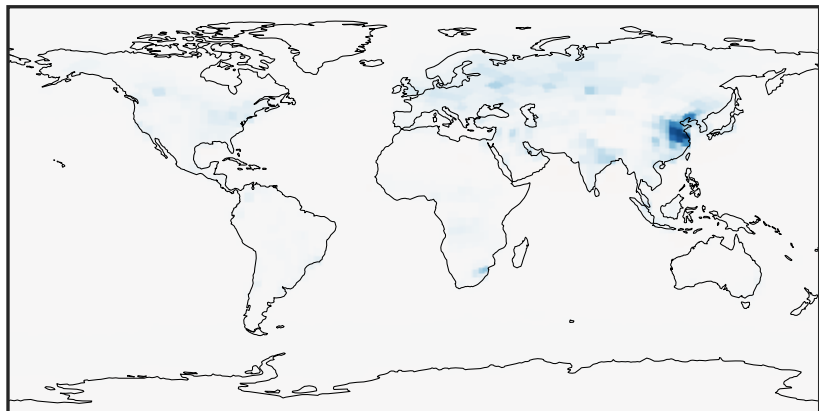
0.00 4.00 7.99 11.99 15.98  
ppb

GCHP\_14.2.0 (Dev)  
c24



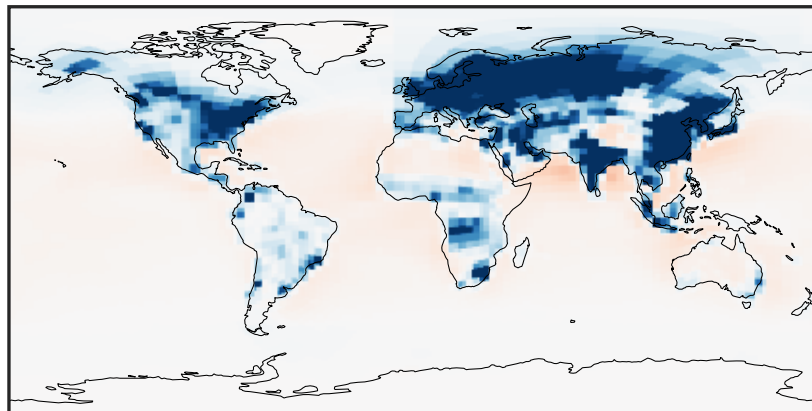
0.00 4.00 7.99 11.99 15.98  
ppb

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



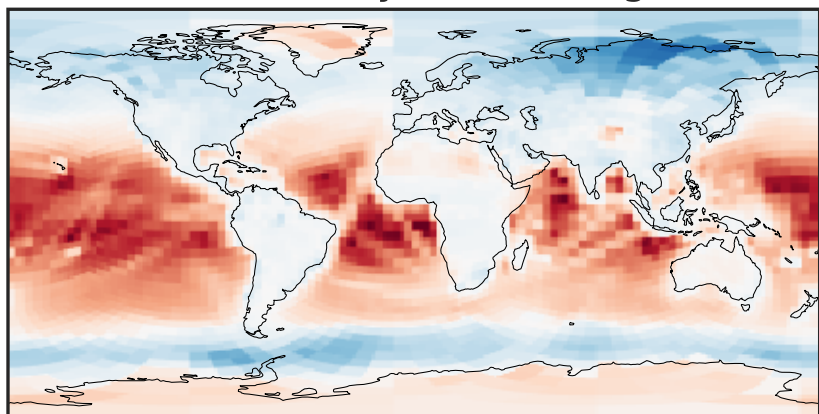
-3.971 -1.986 0.000 1.986 3.971  
ppb

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



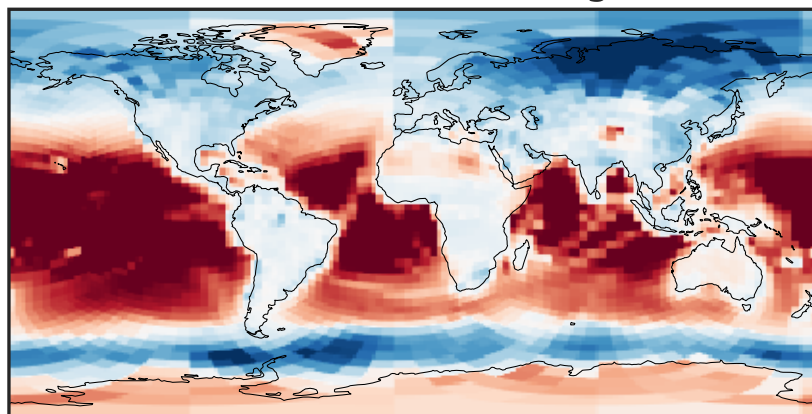
-0.2366 -0.1183 0.0000 0.1183 0.2366  
ppb

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



0.224 0.612 1.000 2.730 4.460  
unitless

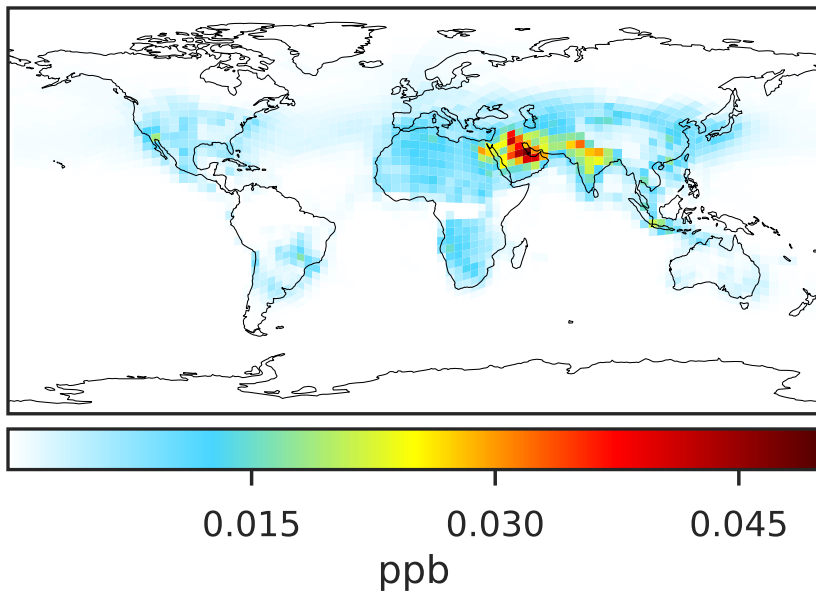
Ratio (1x1.25)  
Dev/Ref, Fixed Range



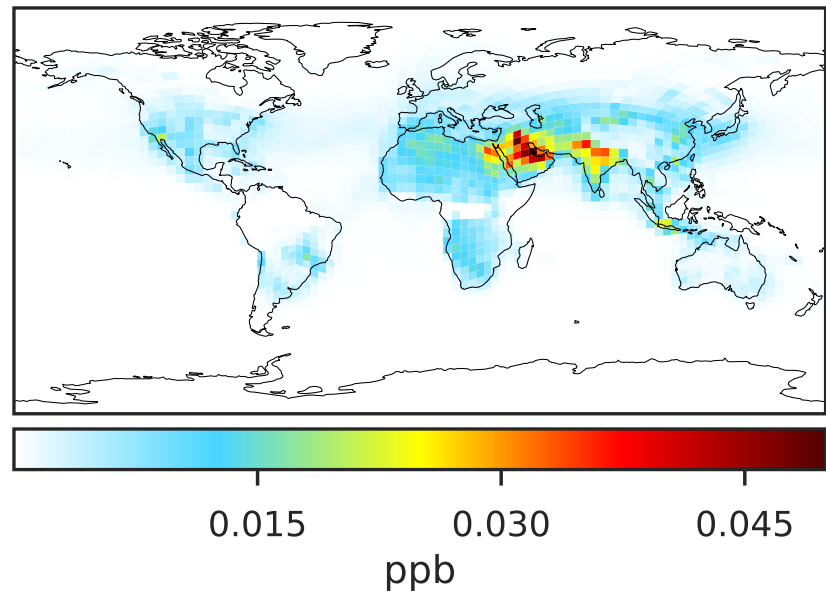
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVW\_NO3 (AnnualMean)

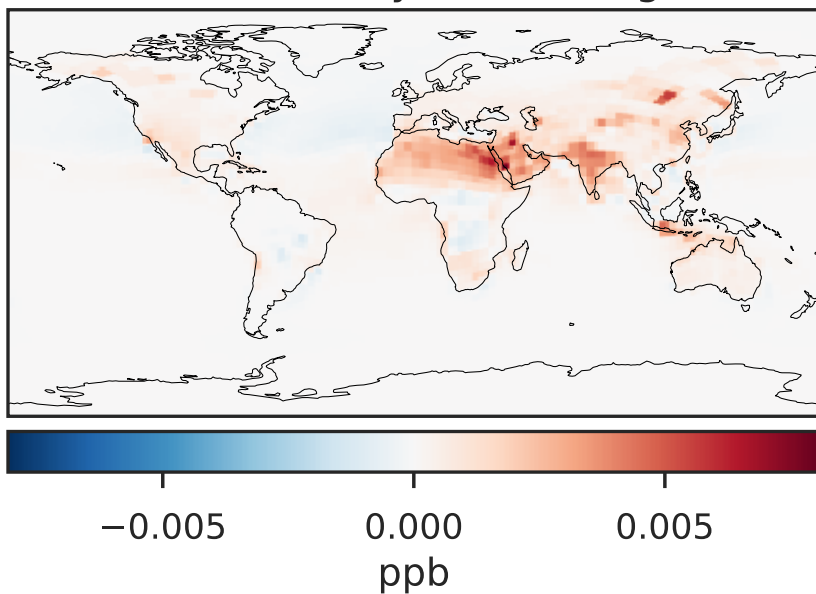
GCHP\_14.0.0 (Ref)  
c24



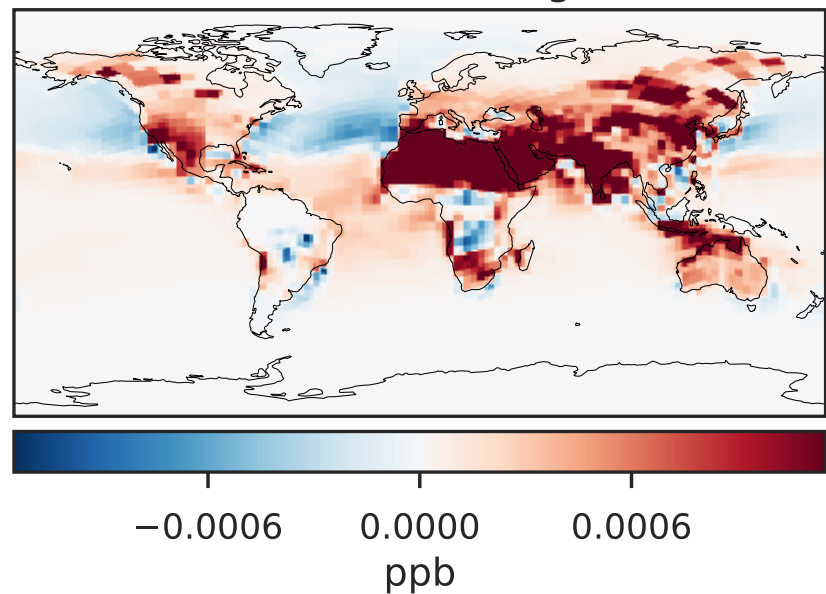
GCHP\_14.2.0 (Dev)  
c24



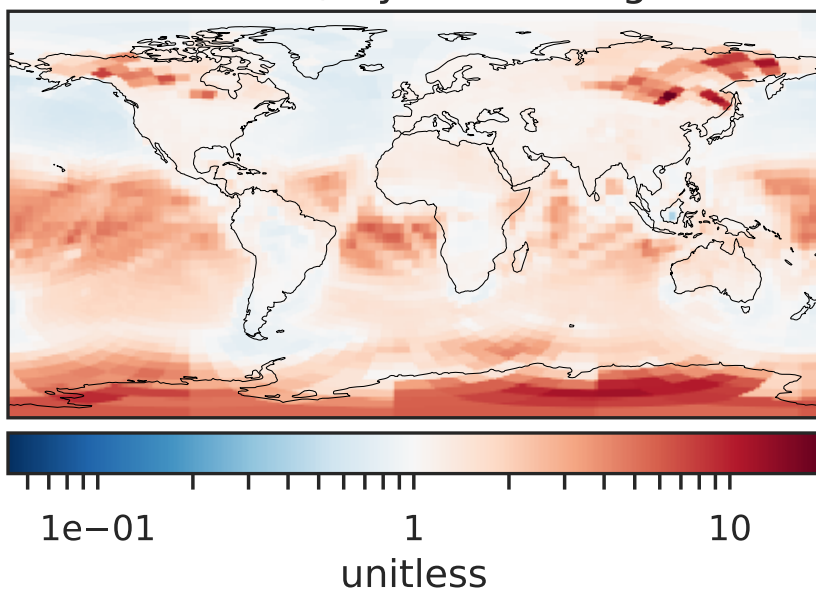
Difference (1x1.25)  
Dev - Ref, Dynamic Range



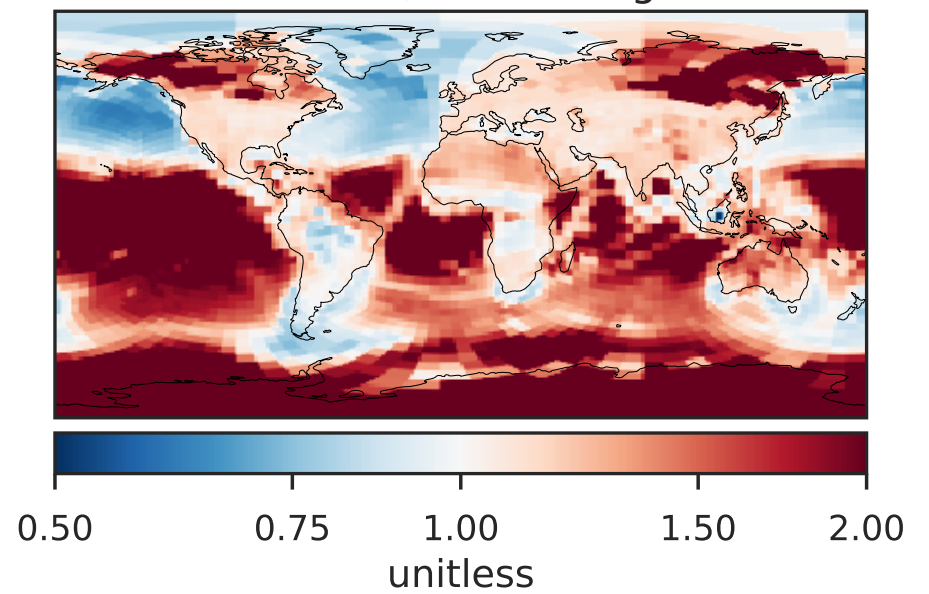
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

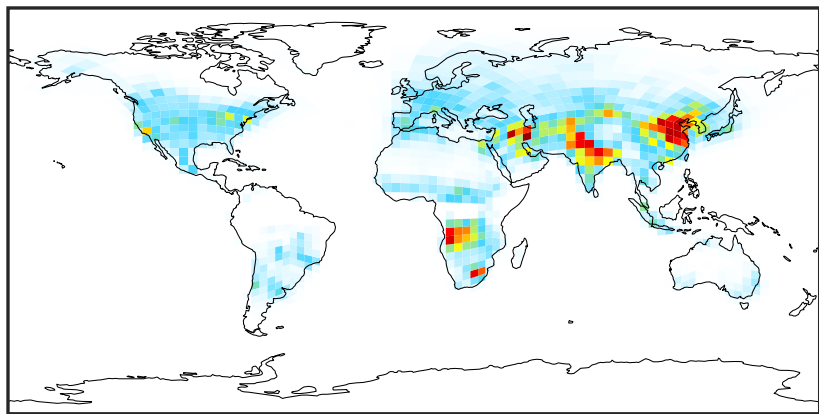


Ratio (1x1.25)  
Dev/Ref, Fixed Range



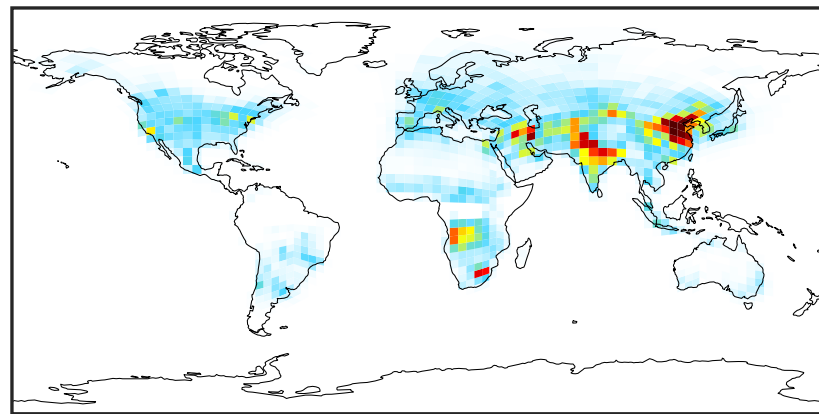
# SpeciesConcVV\_N2O5 (AnnualMean)

GCHP\_14.0.0 (Ref)  
c24



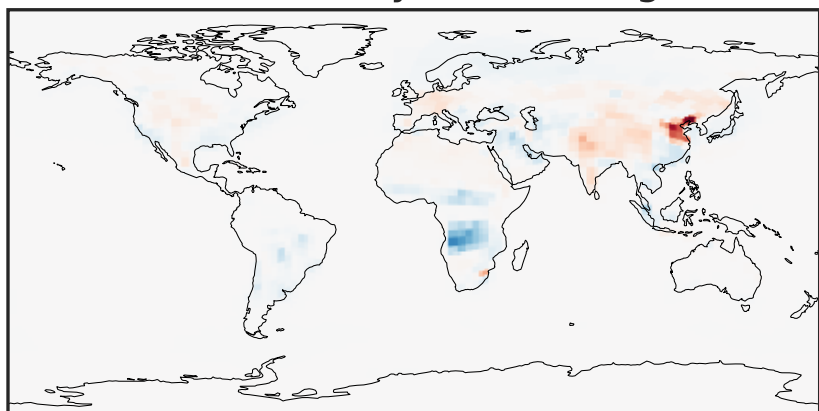
0.0000 0.0472 0.0944 0.1417 0.1889  
ppb

GCHP\_14.2.0 (Dev)  
c24



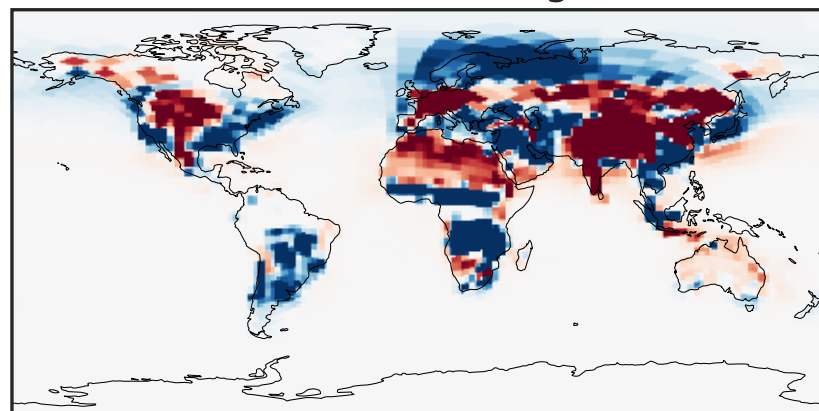
0.0000 0.0472 0.0944 0.1417 0.1889  
ppb

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



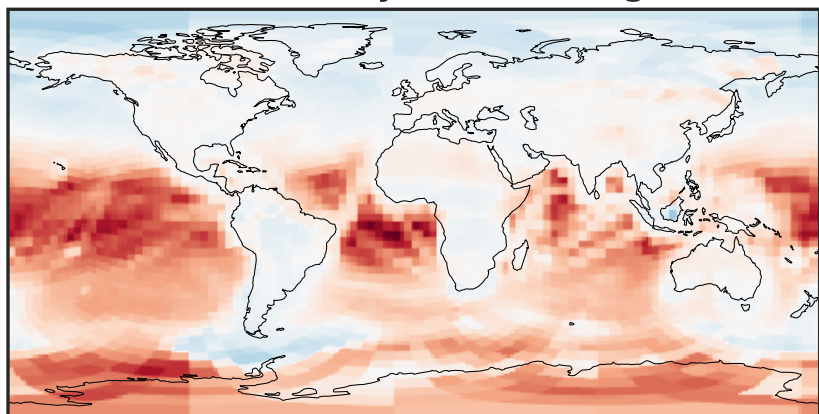
-0.025 0.000 0.025  
ppb

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



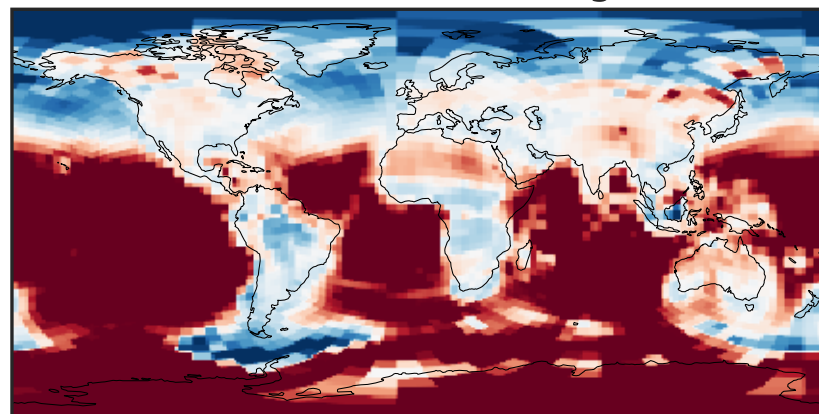
-0.0008 0.0000 0.0008  
ppb

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



1e-01 1 10  
unitless

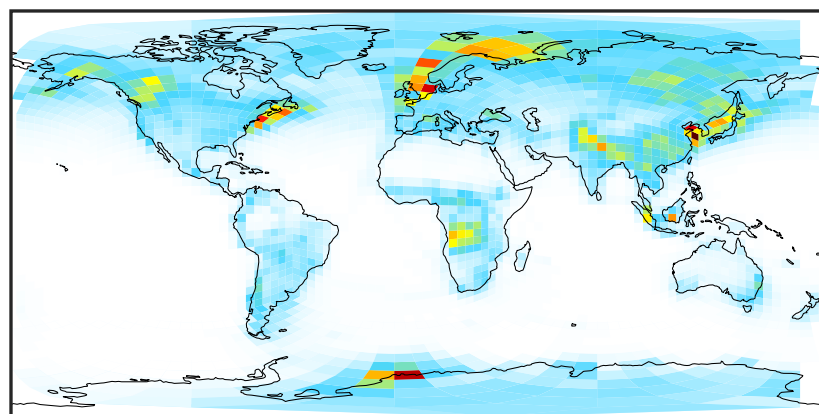
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

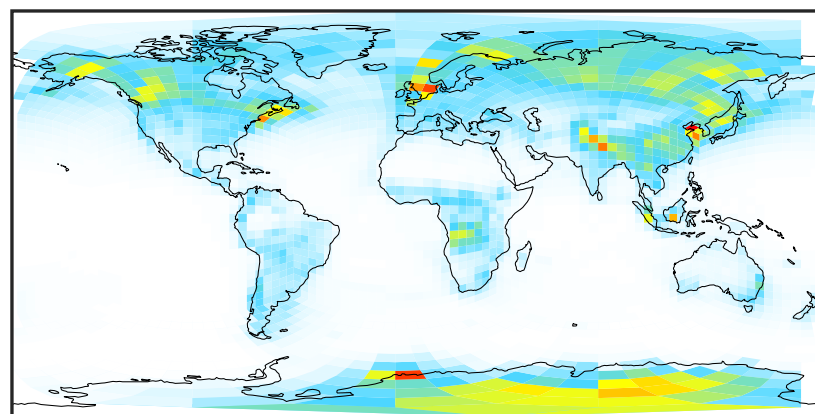
# SpeciesConcVV\_MPN (AnnualMean)

GCHP\_14.0.0 (Ref)  
c24



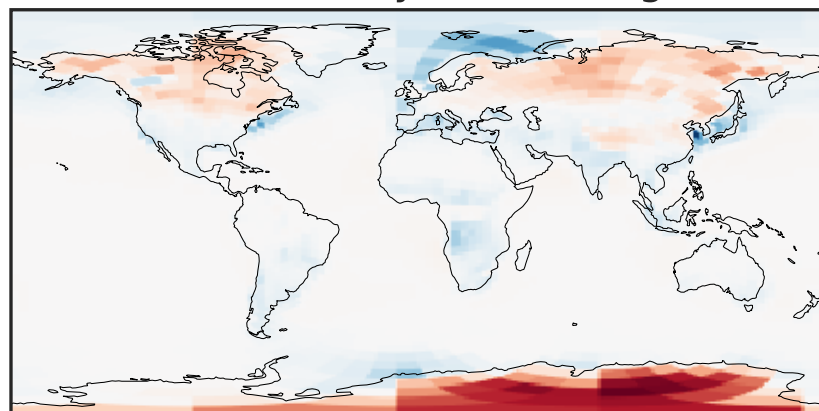
0.0006 0.0012 0.0018  
ppb

GCHP\_14.2.0 (Dev)  
c24



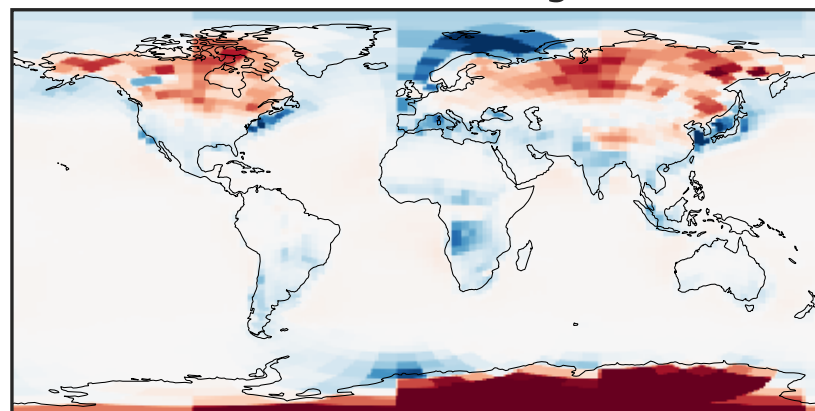
0.0006 0.0012 0.0018  
ppb

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



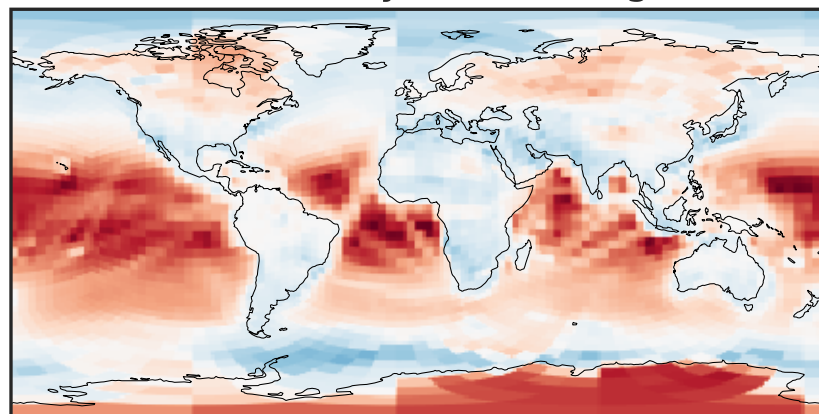
-0.0004 0.0000 0.0004  
ppb

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



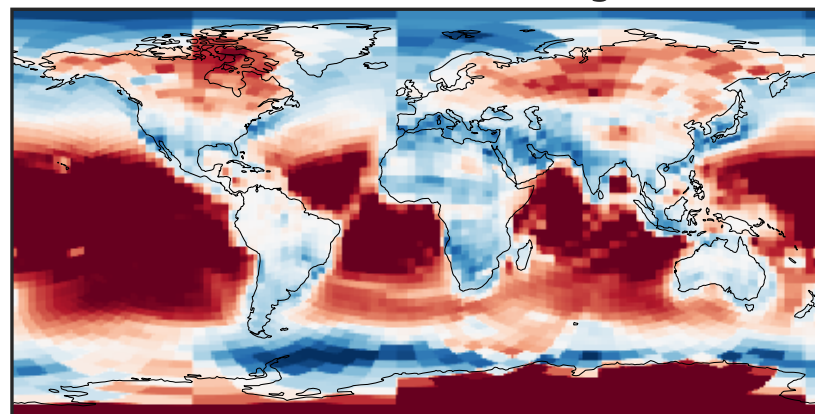
-0.0002 0.0000 0.0002  
ppb

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



0.189 0.595 1.000 3.139 5.278  
unitless

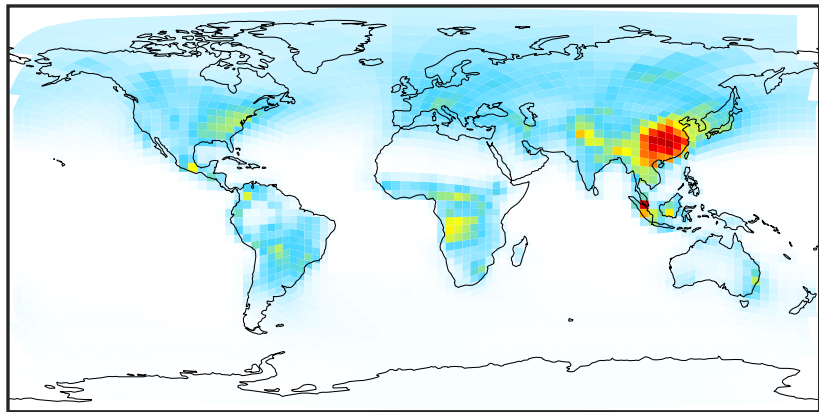
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

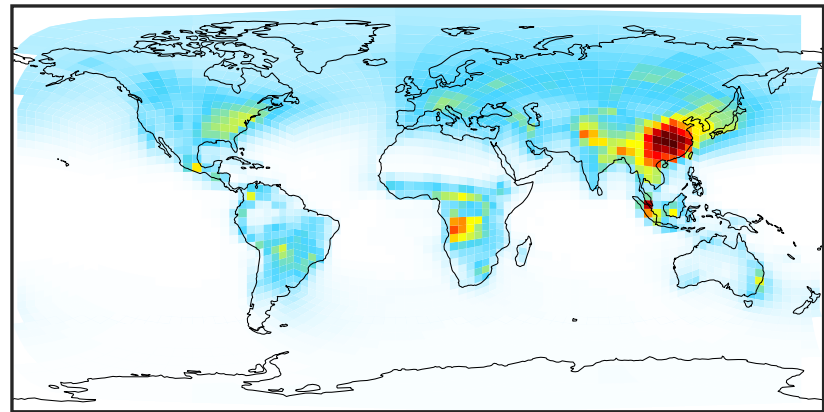
# SpeciesConcVV\_PAN (AnnualMean)

GCHP\_14.0.0 (Ref)  
c24



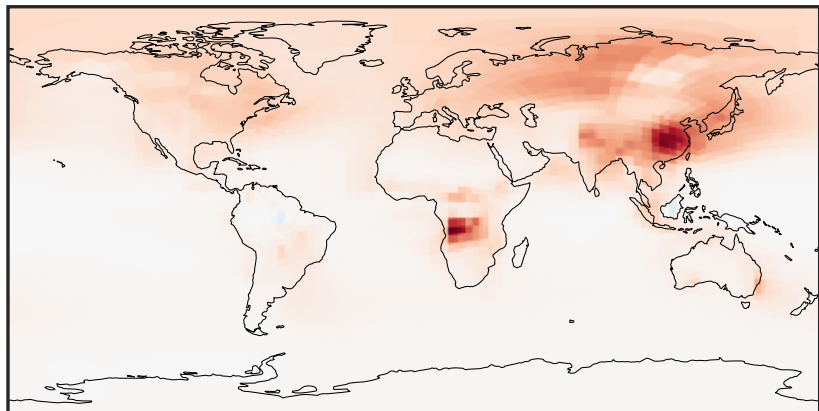
0.0001 0.2324 0.4647 0.6971 0.9295  
ppb

GCHP\_14.2.0 (Dev)  
c24



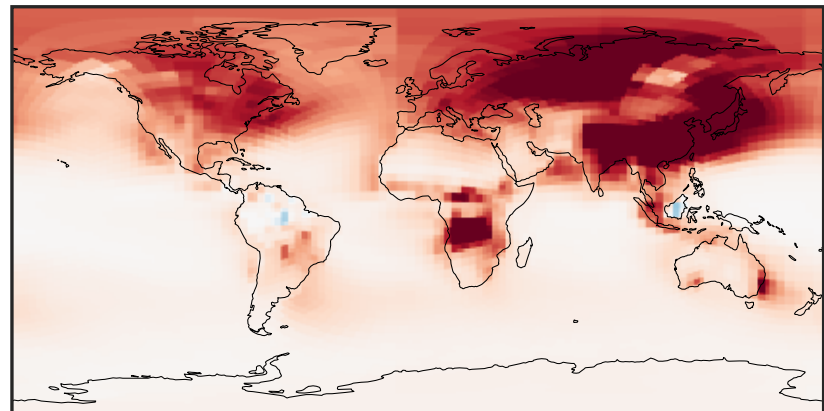
0.0001 0.2324 0.4647 0.6971 0.9295  
ppb

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



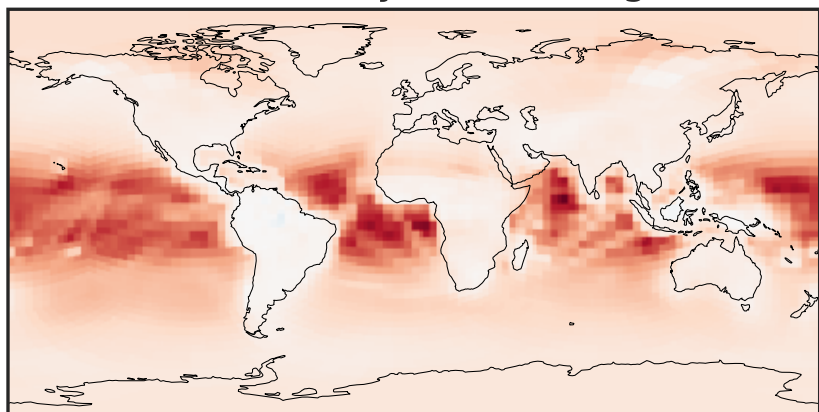
-0.1535 -0.0767 0.0000 0.0767 0.1535  
ppb

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



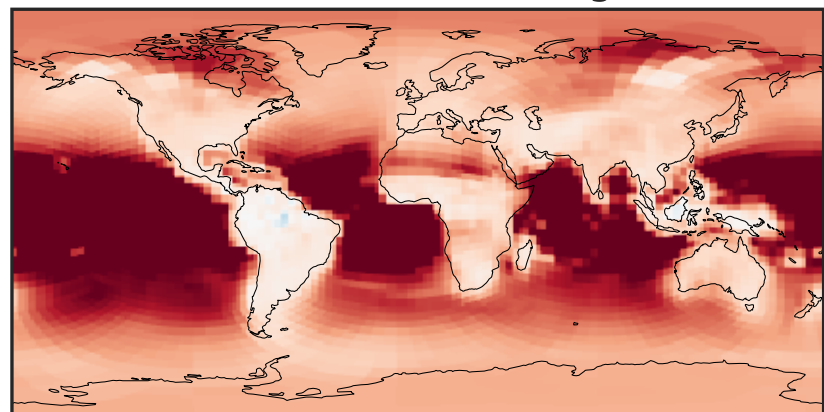
-0.025 0.000 0.025  
ppb

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



0.115 0.558 1.000 4.831 8.661  
unitless

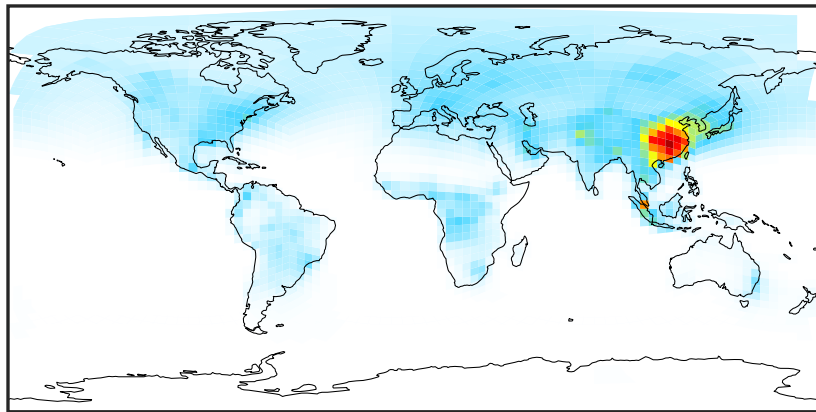
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

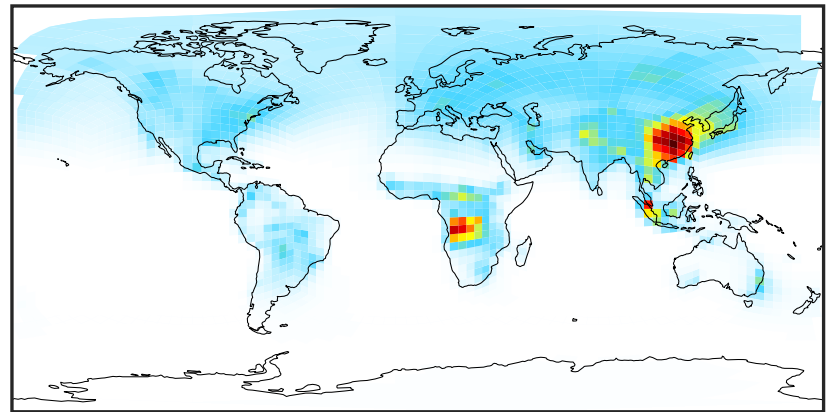
# SpeciesConcVV\_PPN (AnnualMean)

GCHP\_14.0.0 (Ref)  
c24



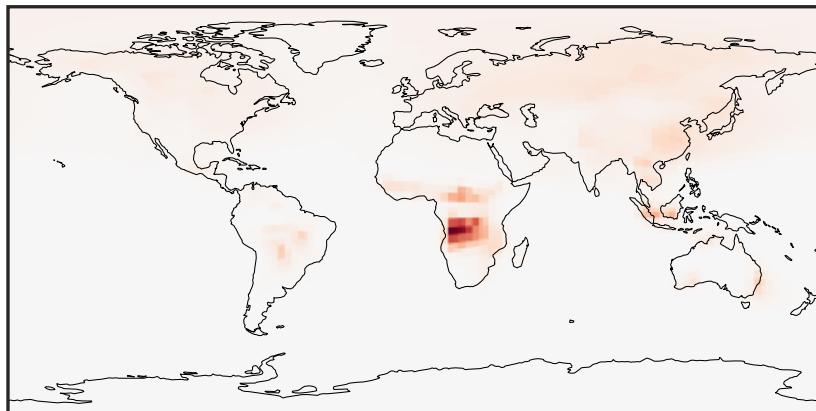
0.0000 0.0625 0.1251 0.1876 0.2502  
ppb

GCHP\_14.2.0 (Dev)  
c24



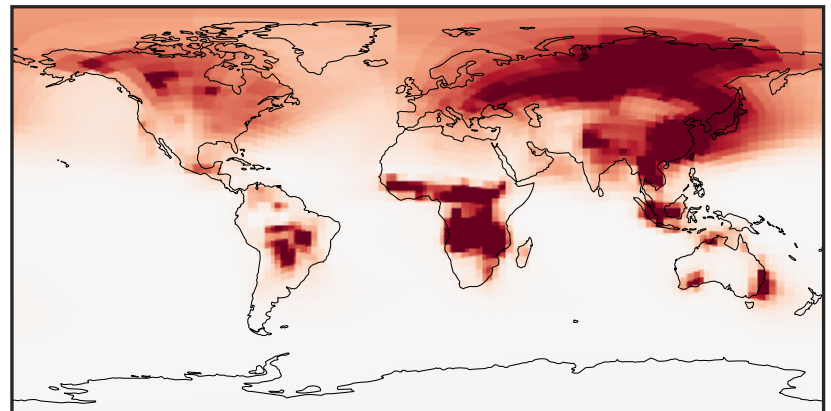
0.0000 0.0625 0.1251 0.1876 0.2502  
ppb

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



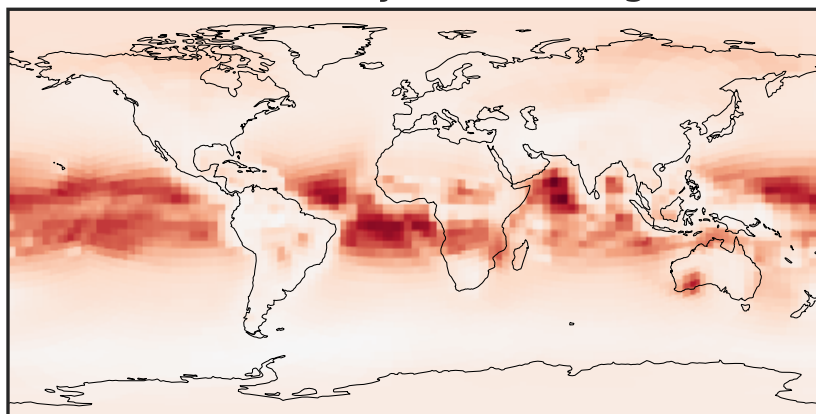
-0.1631 -0.0816 0.0000 0.0816 0.1631  
ppb

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



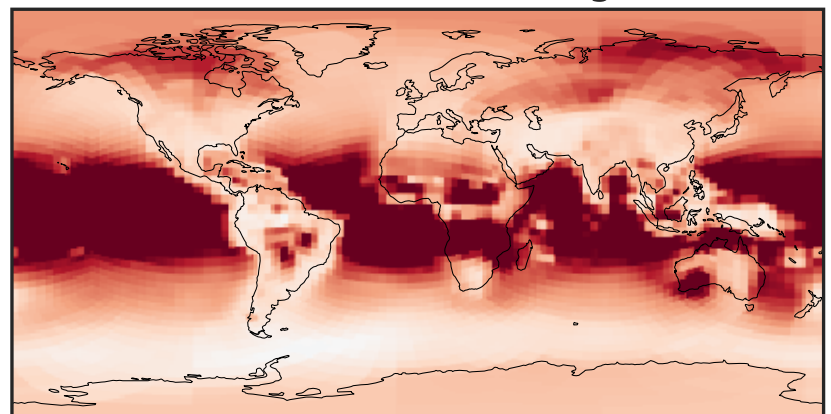
-0.008 0.000 0.008  
ppb

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



0.101 0.551 1.000 5.444 9.887  
unitless

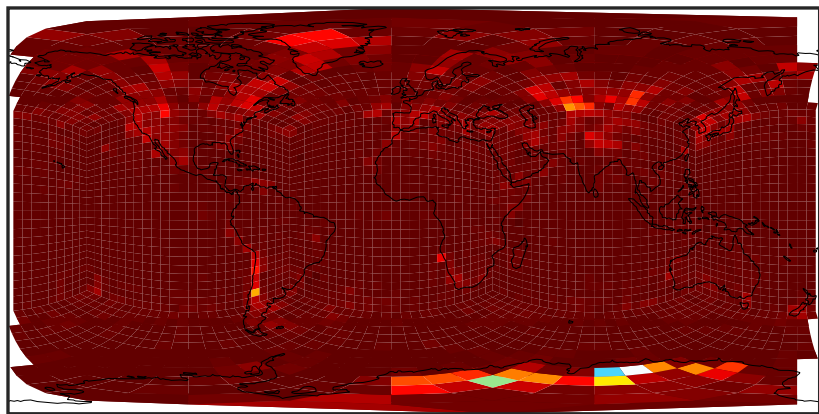
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

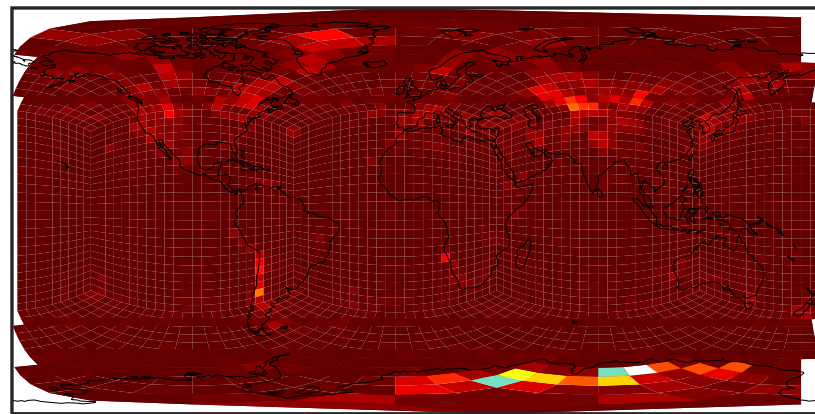
# SpeciesConcVW\_N2O (AnnualMean)

GCHP\_14.0.0 (Ref)  
c24



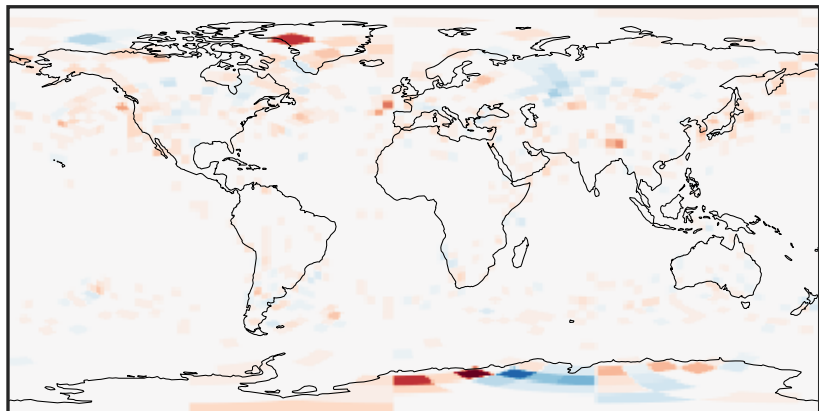
0.0008 0.0016 0.0024  
ppb +3.303e2

GCHP\_14.2.0 (Dev)  
c24



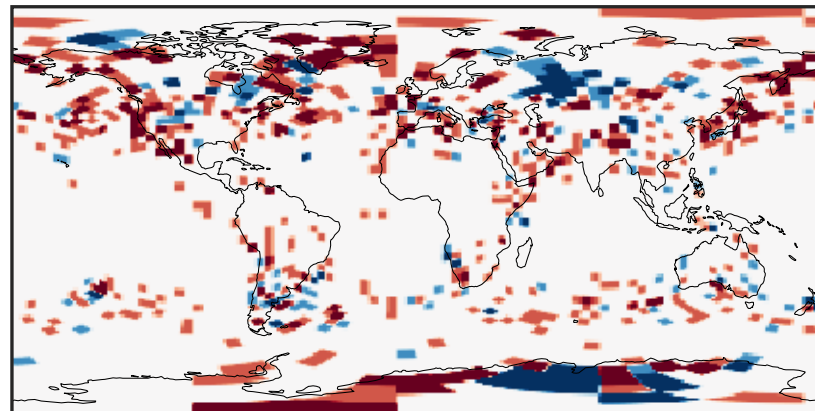
0.0008 0.0016 0.0024  
ppb +3.303e2

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



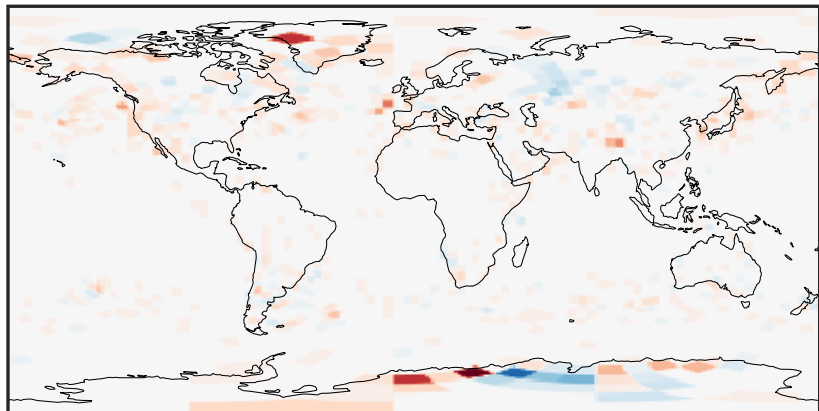
-0.00025 0.00000 0.00025  
ppb

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



-2.5 0.0 2.5  
ppb 1e-5

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



0.999998614 1.000000000 1.000001386  
unitless

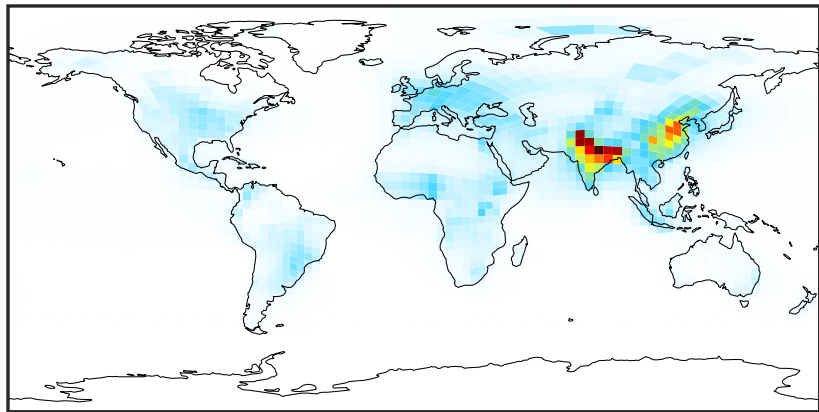
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

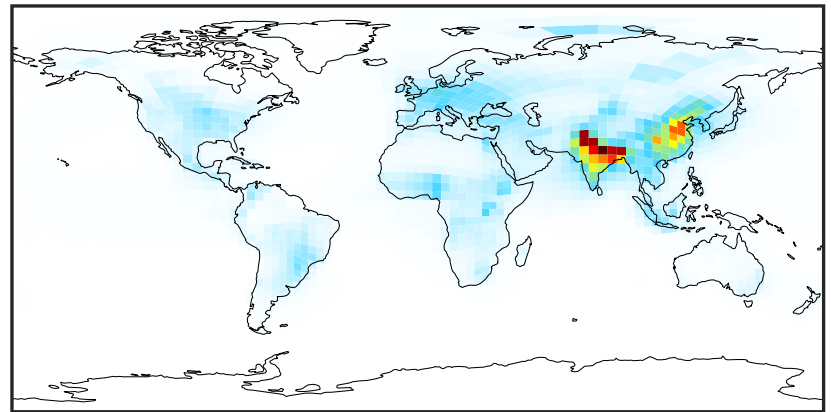
# SpeciesConcVV\_NHx (AnnualMean)

GCHP\_14.0.0 (Ref)  
c24



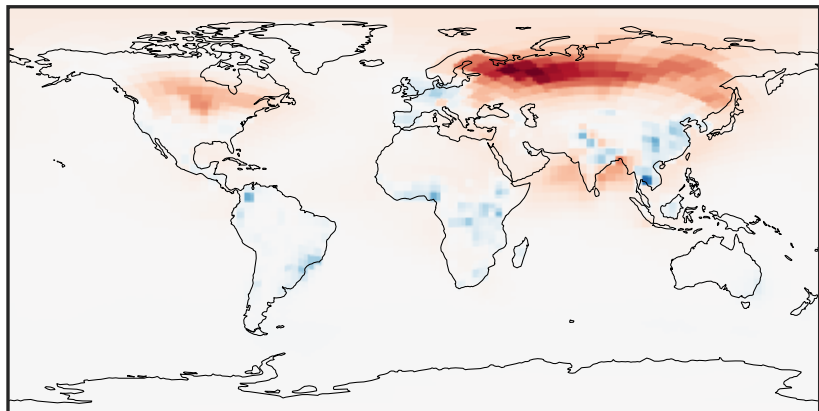
0.01 9.43 18.85 28.28 37.72  
ppb

GCHP\_14.2.0 (Dev)  
c24



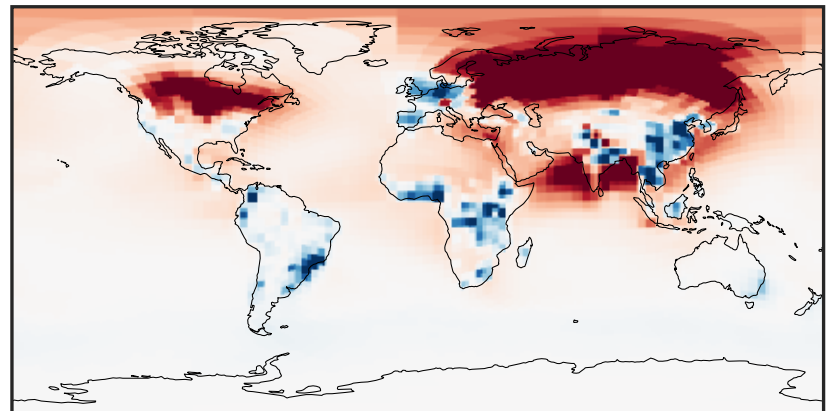
0.01 9.43 18.85 28.28 37.72  
ppb

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



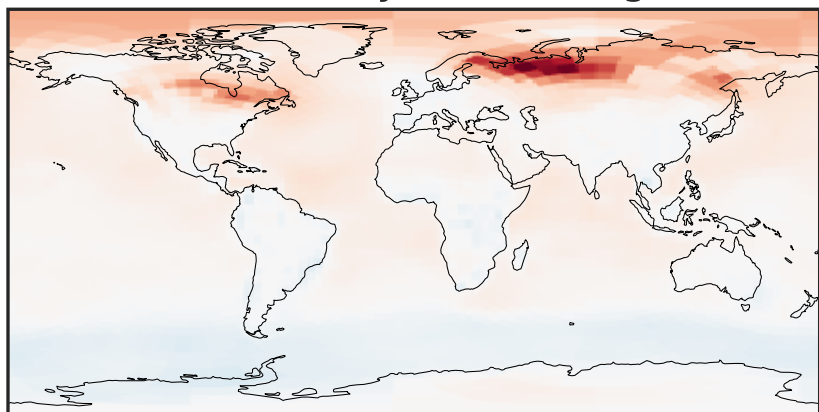
-0.4914 -0.2457 0.0000 0.2457 0.4914  
ppb

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



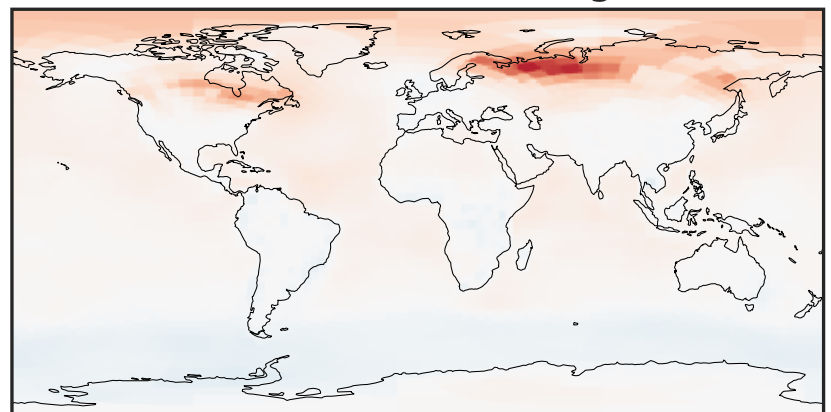
-0.1146 -0.0573 0.0000 0.0573 0.1146  
ppb

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



0.587 0.794 1.000 1.352 1.703  
unitless

Ratio (1x1.25)  
Dev/Ref, Fixed Range

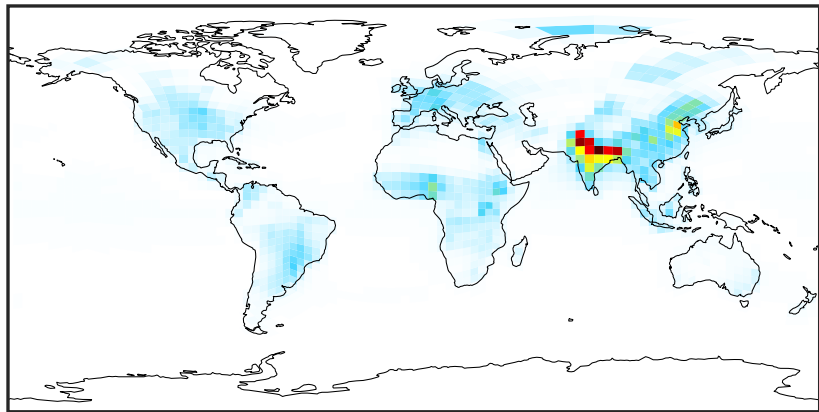


0.50 0.75 1.00 1.50 2.00  
unitless



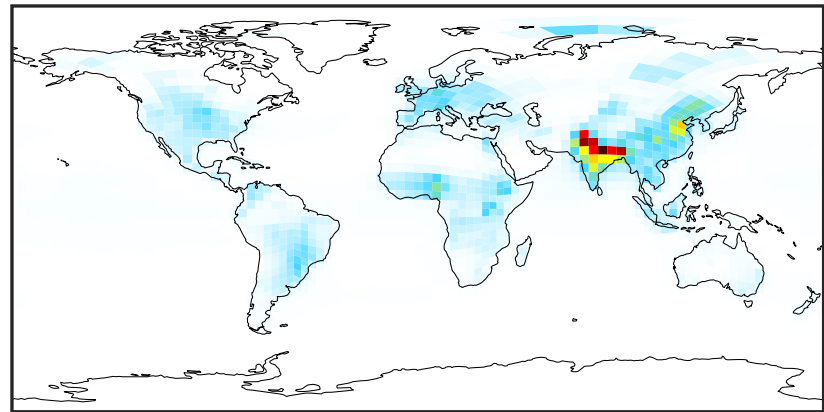
# SpeciesConcVV\_NH3 (AnnualMean)

GCHP\_14.0.0 (Ref)  
c24



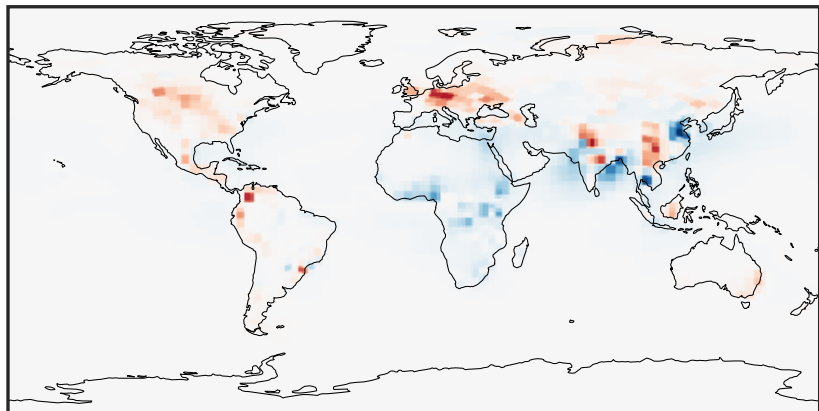
0.00 6.12 12.25 18.37 24.49  
ppb

GCHP\_14.2.0 (Dev)  
c24



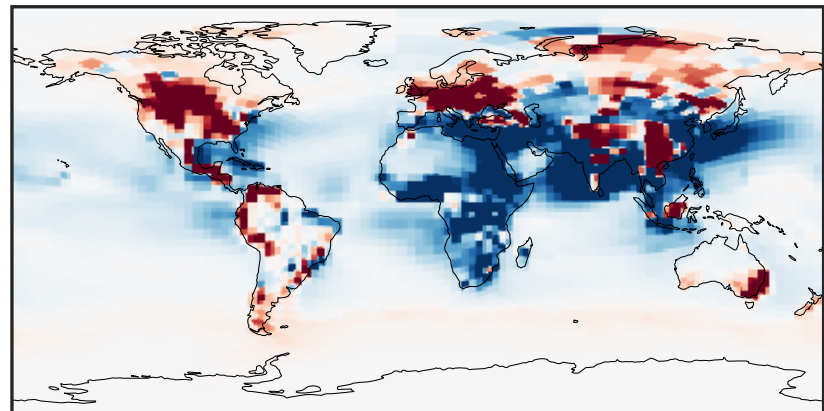
0.00 6.12 12.25 18.37 24.49  
ppb

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



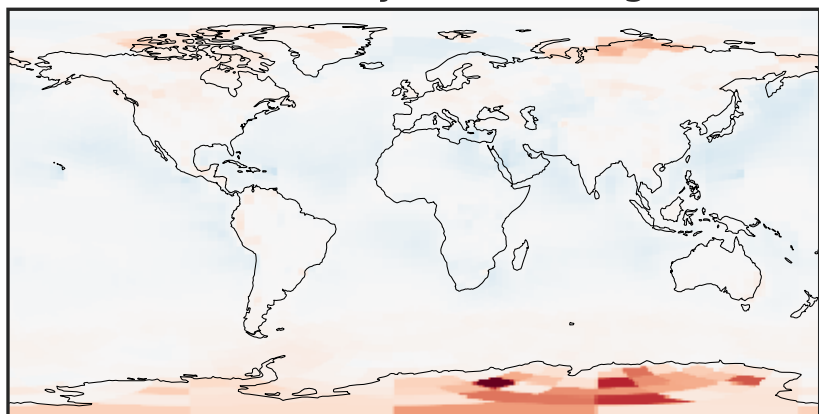
-0.3393 -0.1696 0.0000 0.1696 0.3393  
ppb

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



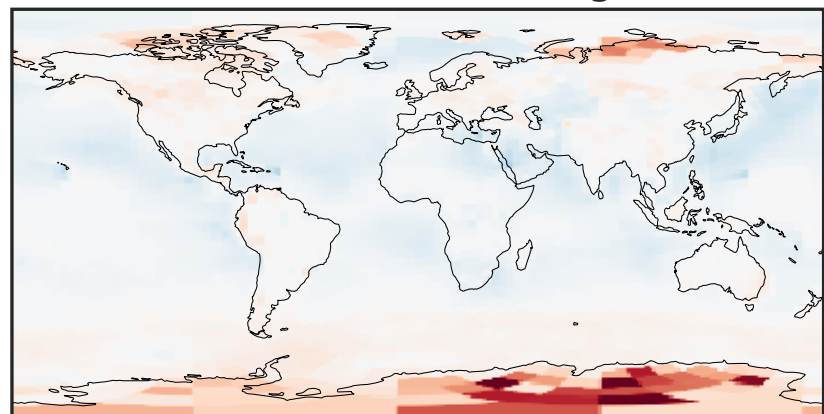
-0.015 0.000 0.015  
ppb

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



0.360 0.680 1.000 1.889 2.778  
unitless

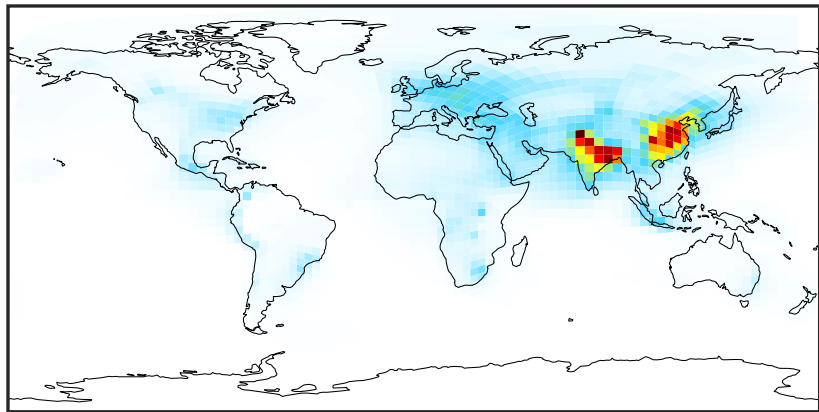
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

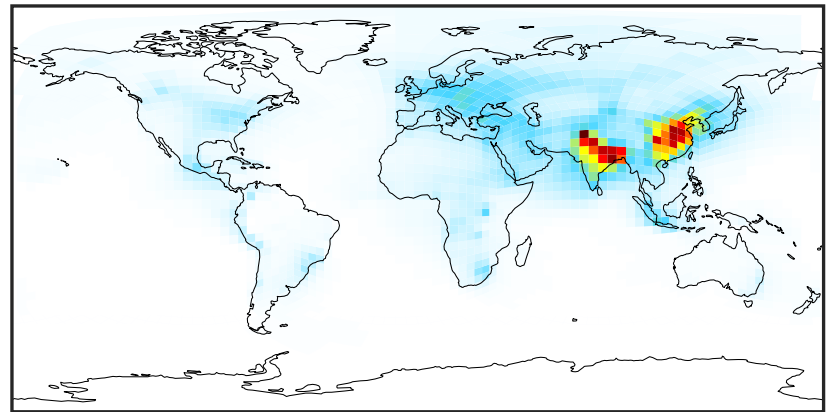
# SpeciesConcVV\_NH4 (AnnualMean)

GCHP\_14.0.0 (Ref)  
c24



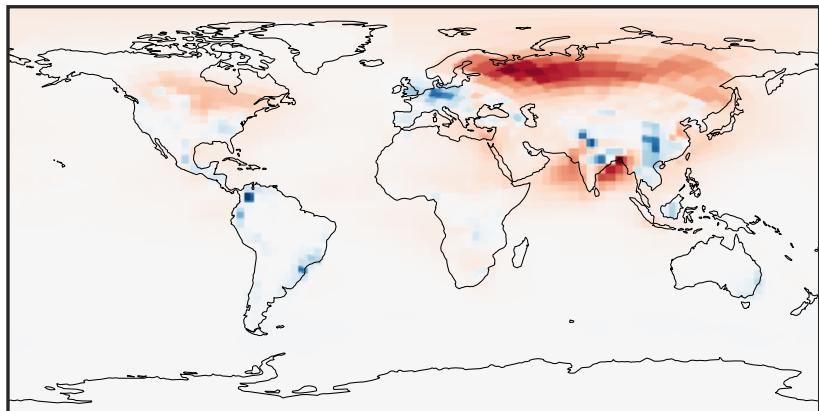
0.01 3.94 7.87 11.81 15.75  
ppb

GCHP\_14.2.0 (Dev)  
c24



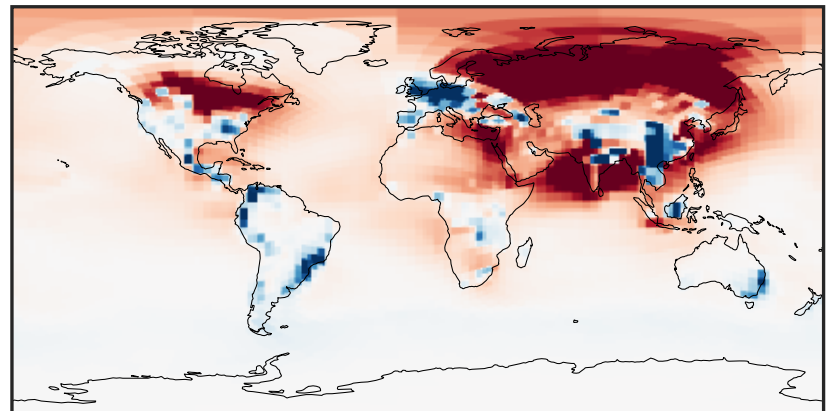
0.01 3.94 7.87 11.81 15.75  
ppb

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



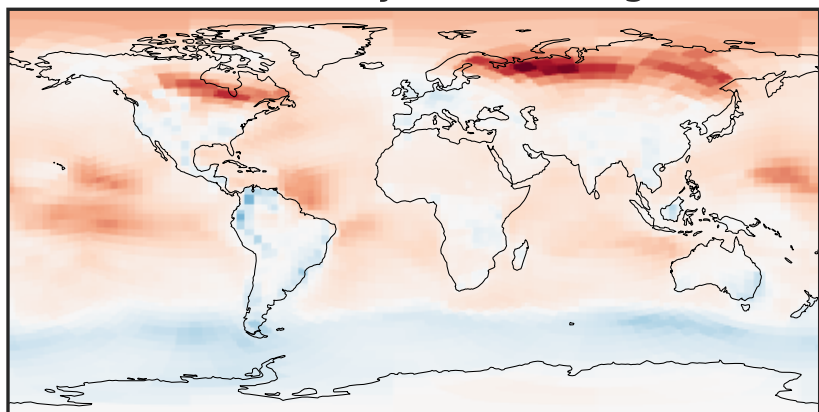
-0.528 -0.264 0.000 0.264 0.528  
ppb

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



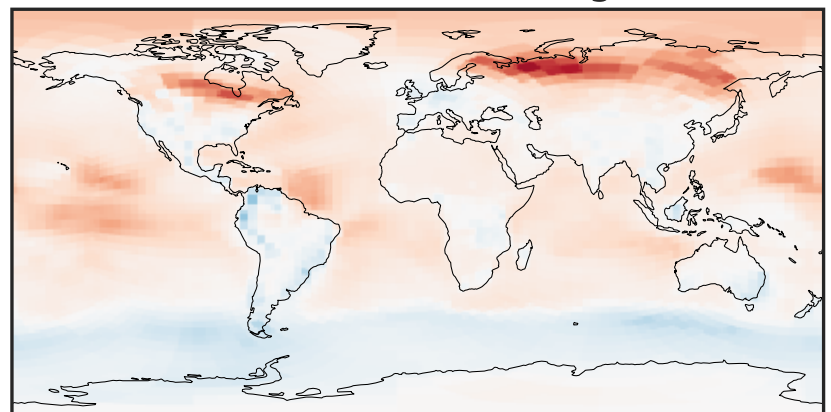
-0.1169 -0.0585 0.0000 0.0585 0.1169  
ppb

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



0.558 0.779 1.000 1.396 1.791  
unitless

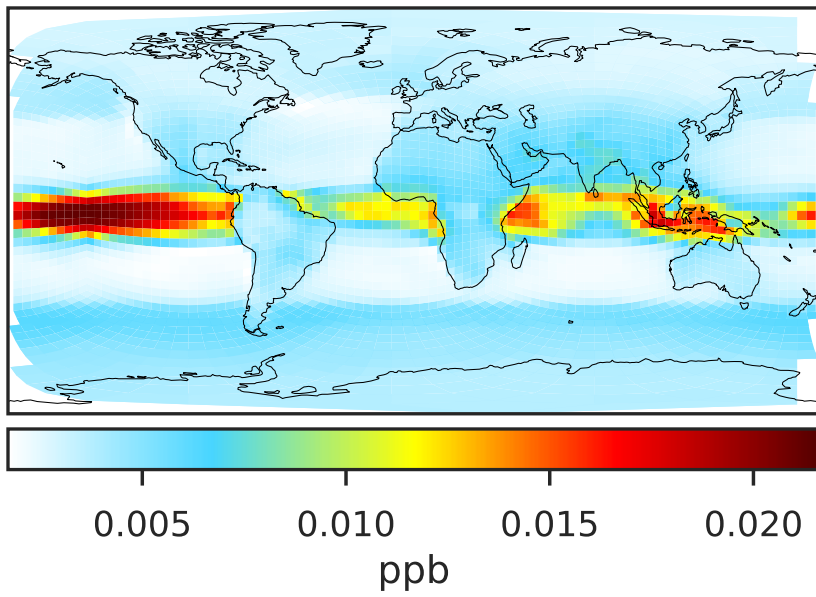
Ratio (1x1.25)  
Dev/Ref, Fixed Range



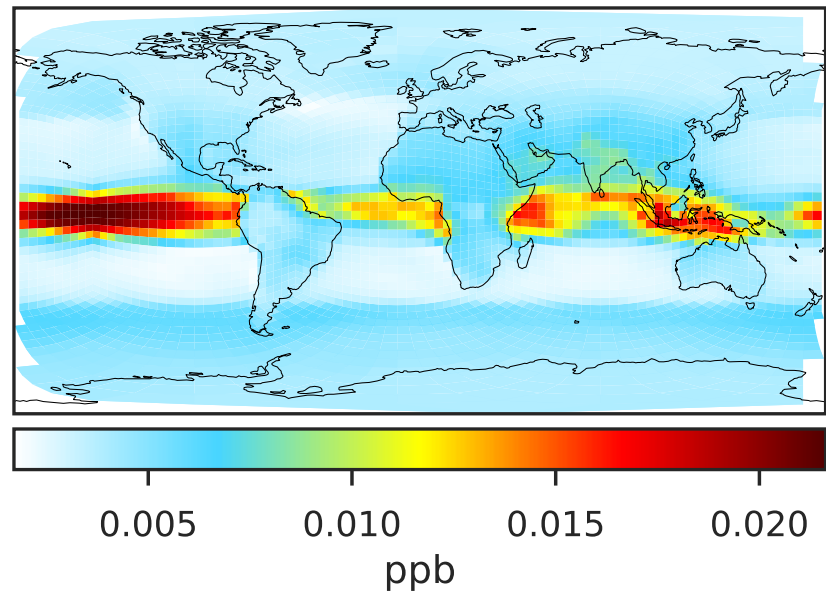
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_MENO3 (AnnualMean)

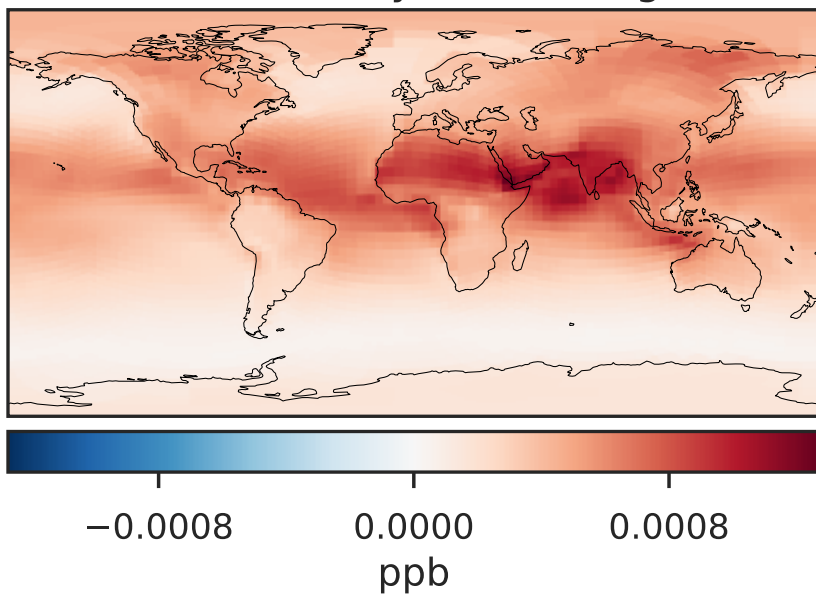
GCHP\_14.0.0 (Ref)  
c24



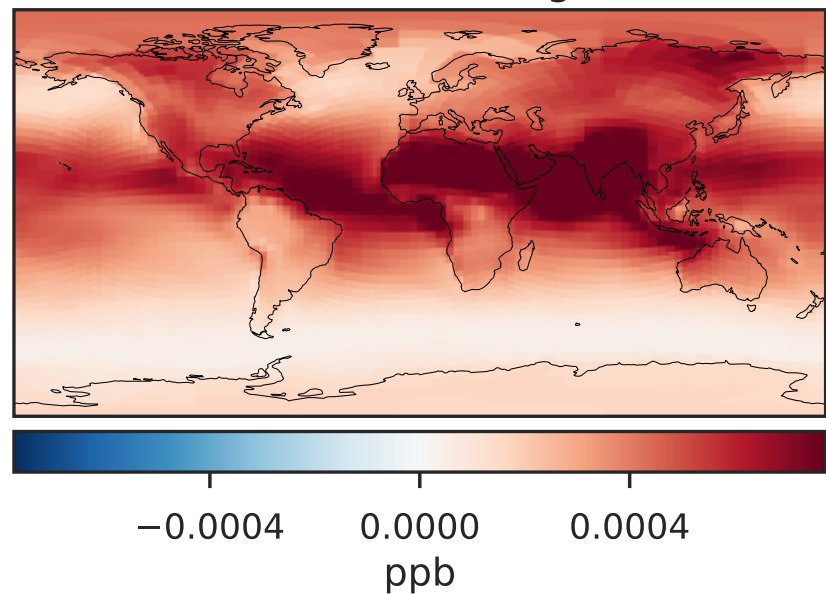
GCHP\_14.2.0 (Dev)  
c24



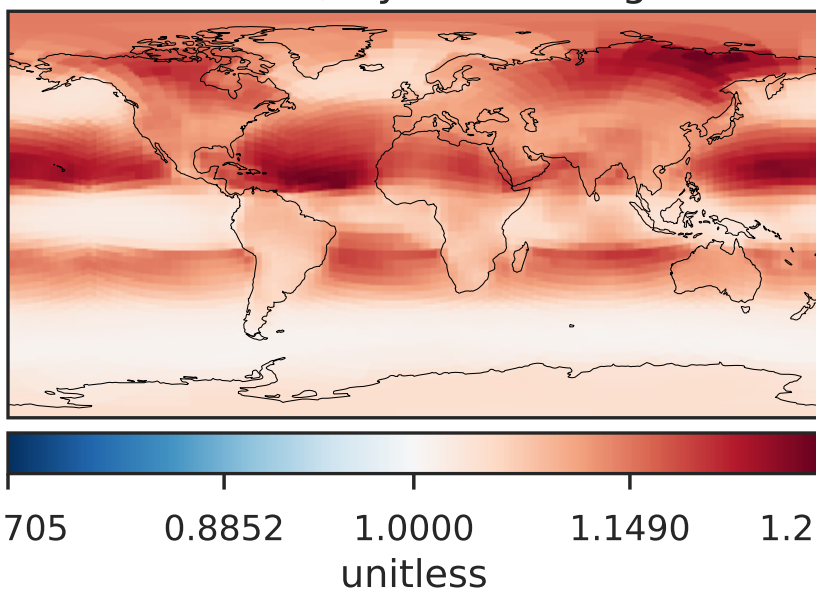
Difference (1x1.25)  
Dev - Ref, Dynamic Range



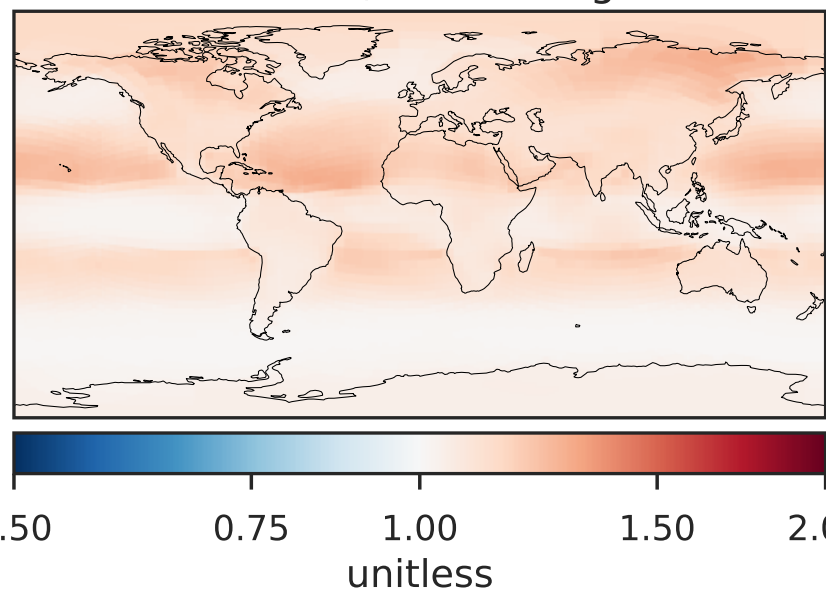
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

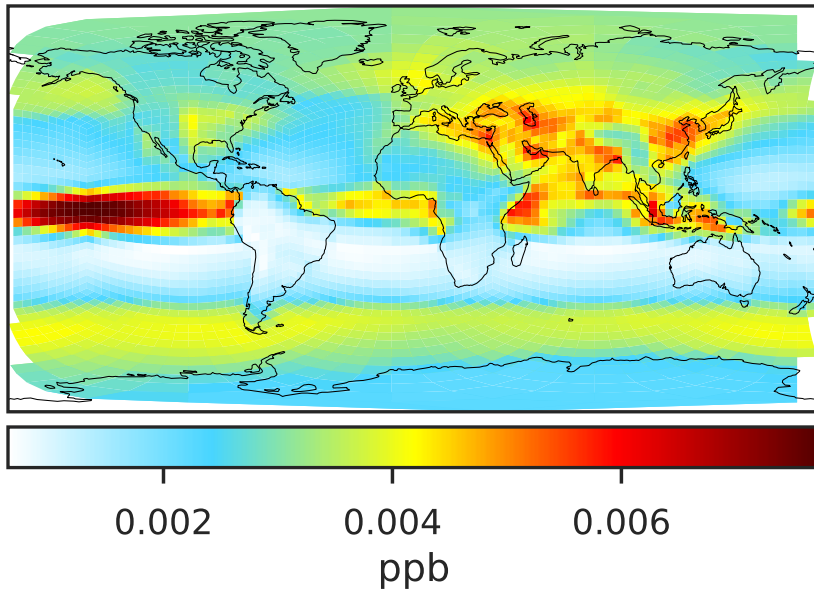


Ratio (1x1.25)  
Dev/Ref, Fixed Range

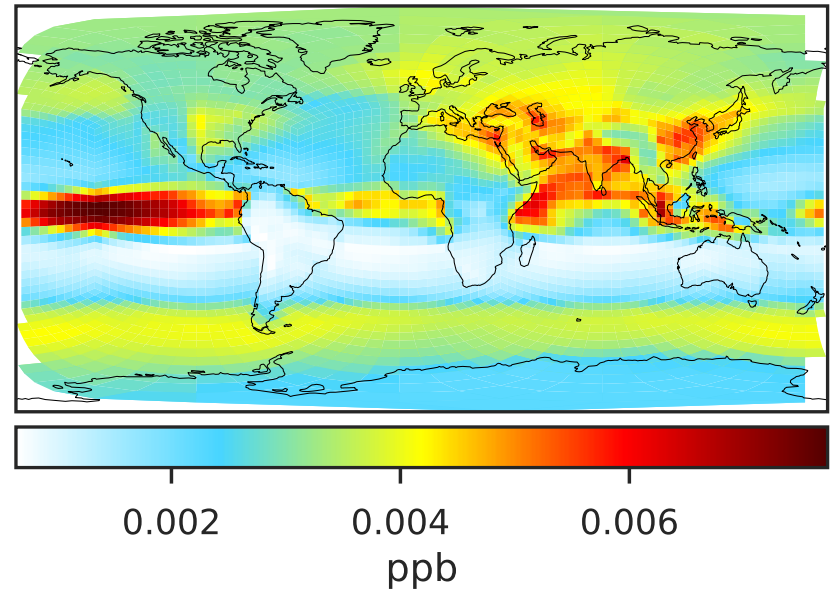


# SpeciesConcVV\_ETNO3 (AnnualMean)

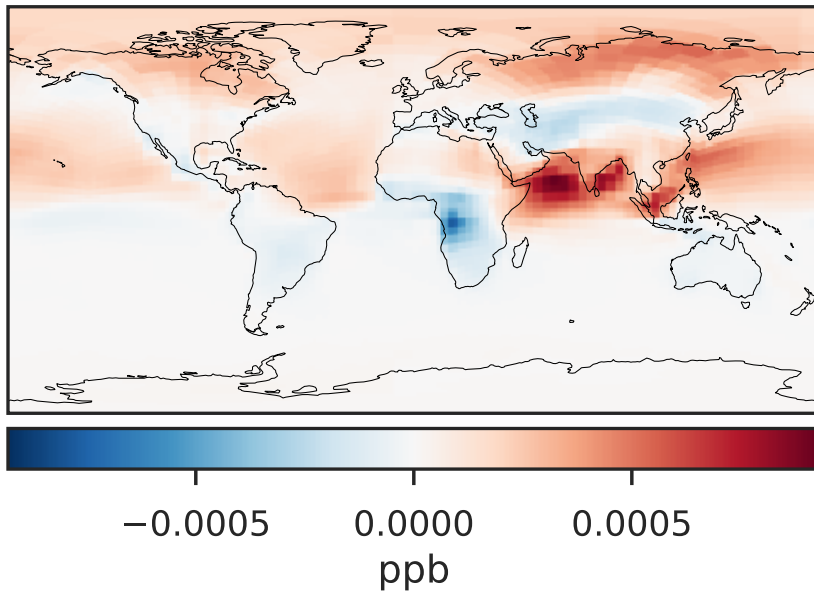
GCHP\_14.0.0 (Ref)  
c24



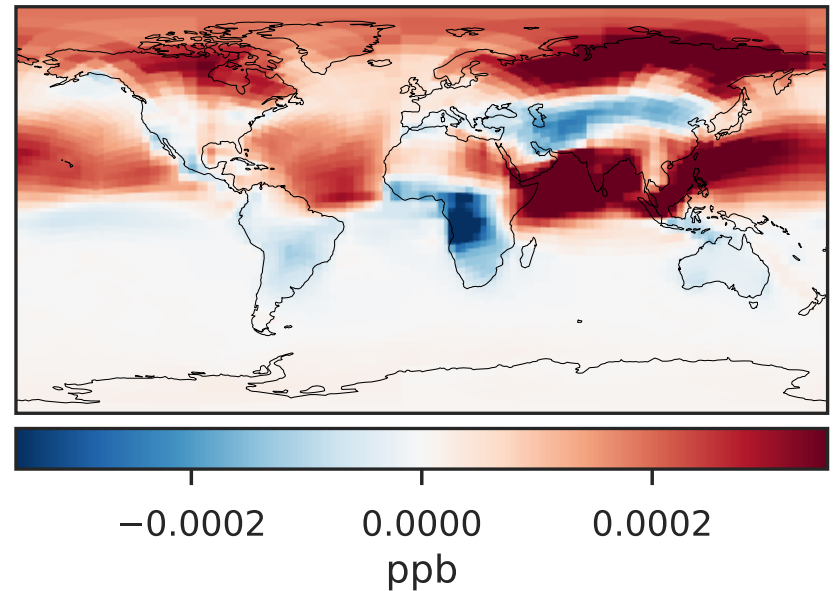
GCHP\_14.2.0 (Dev)  
c24



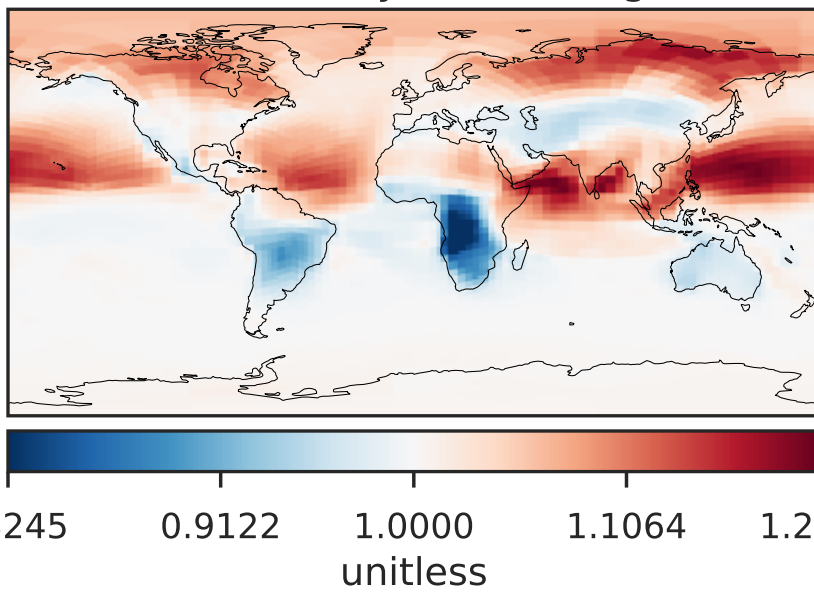
Difference (1x1.25)  
Dev - Ref, Dynamic Range



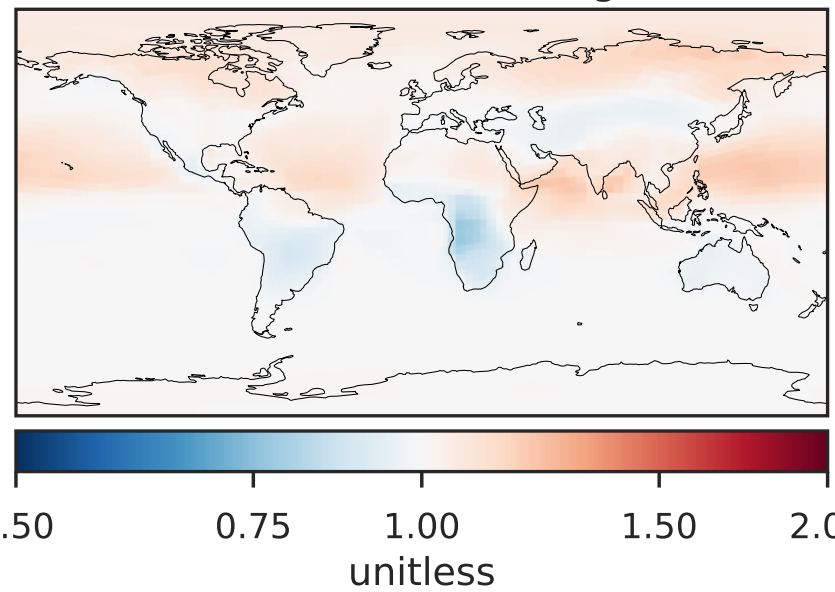
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

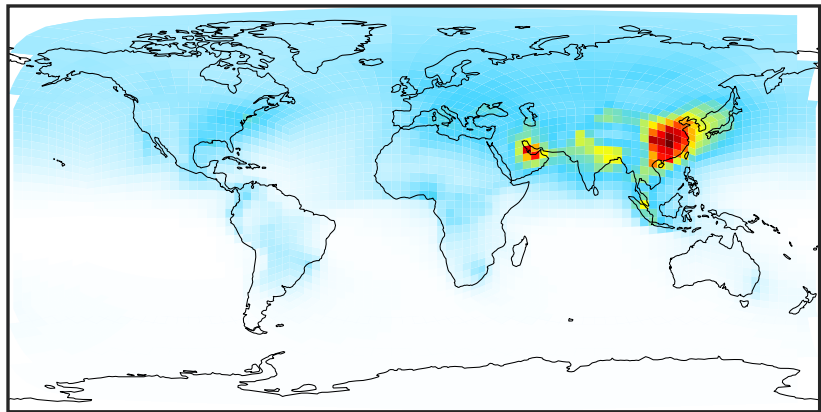


Ratio (1x1.25)  
Dev/Ref, Fixed Range



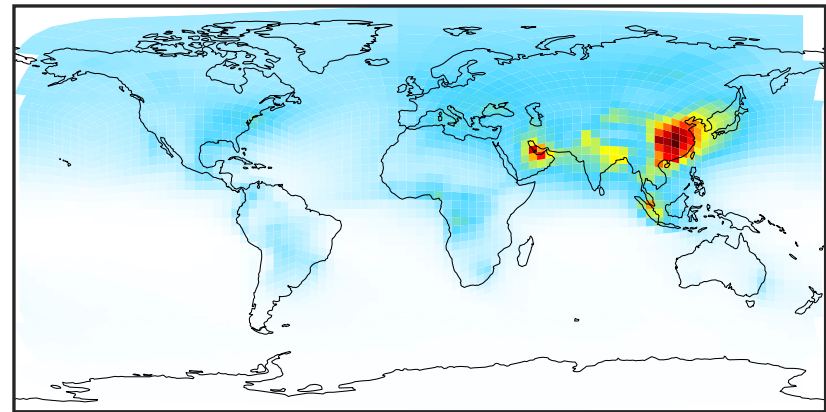
# SpeciesConcVV\_IPRNO3 (AnnualMean)

GCHP\_14.0.0 (Ref)  
c24



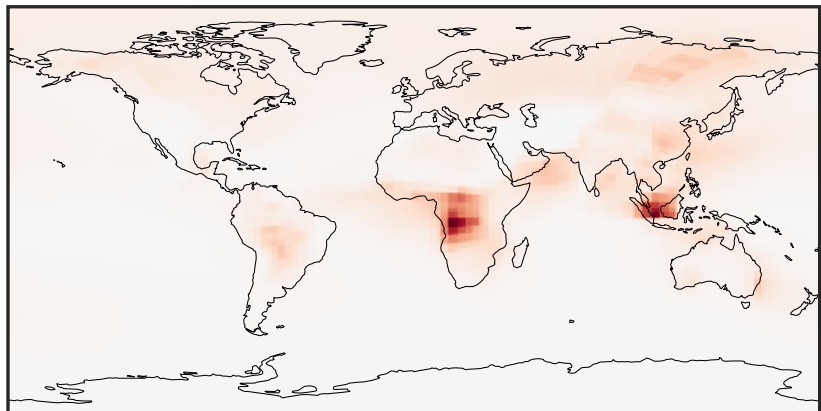
0.02 0.04 0.06  
ppb

GCHP\_14.2.0 (Dev)  
c24



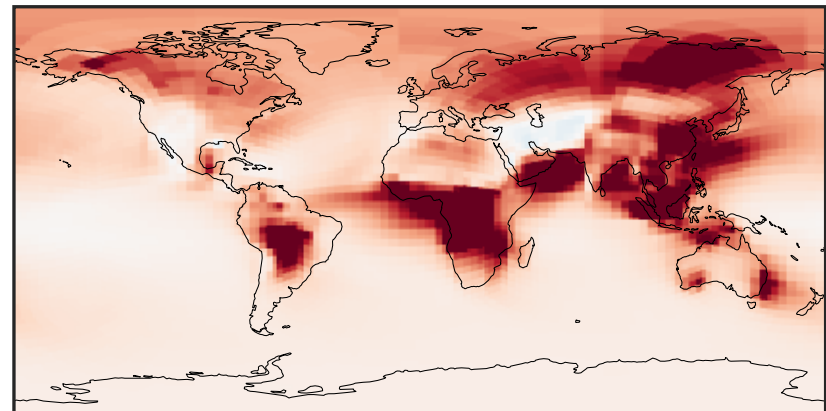
0.02 0.04 0.06  
ppb

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



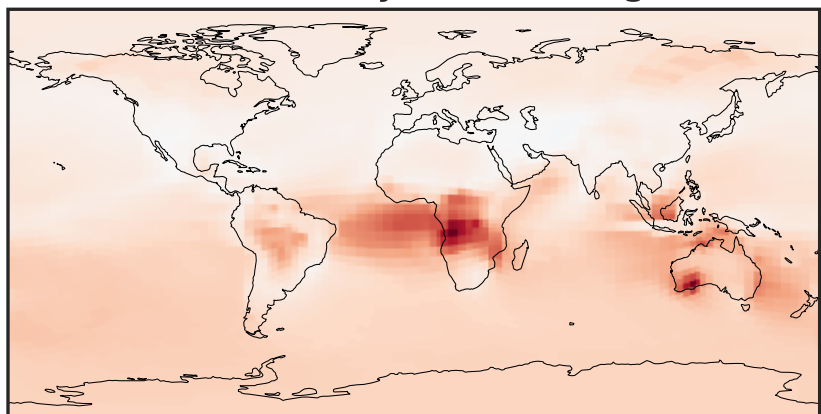
-0.005 0.000 0.005  
ppb

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



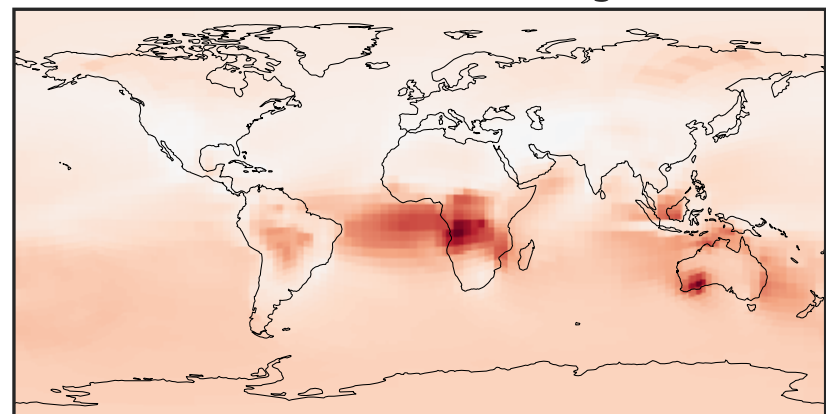
-0.0008 0.0000 0.0008  
ppb

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



0.484 0.742 1.000 1.534 2.067  
unitless

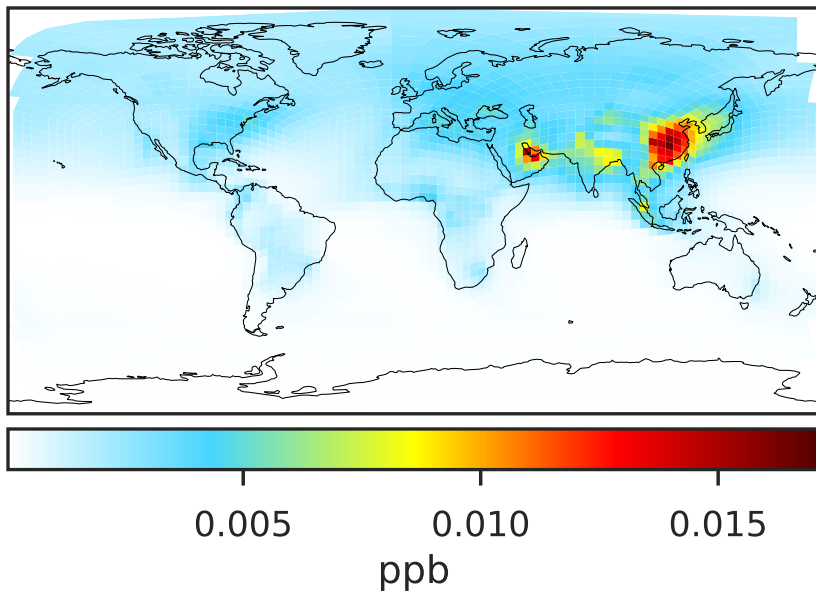
Ratio (1x1.25)  
Dev/Ref, Fixed Range



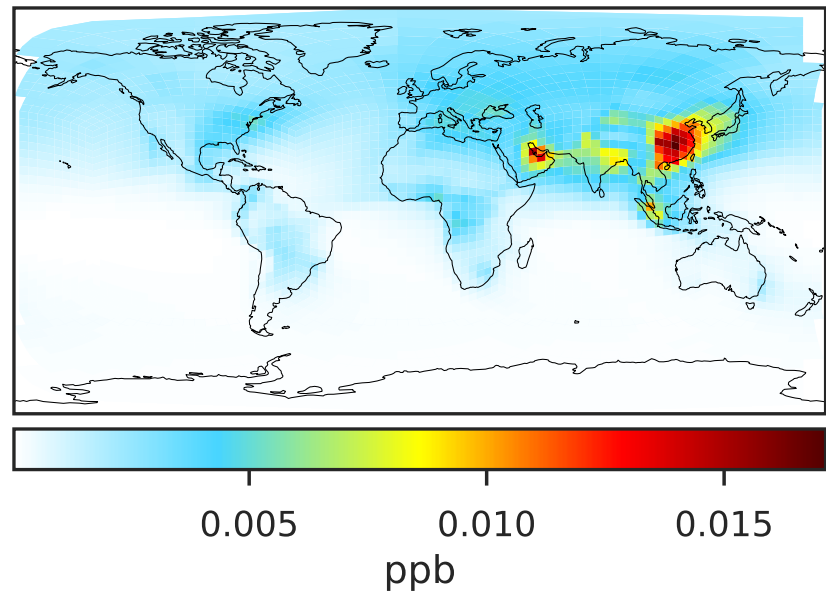
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_NPRNO3 (AnnualMean)

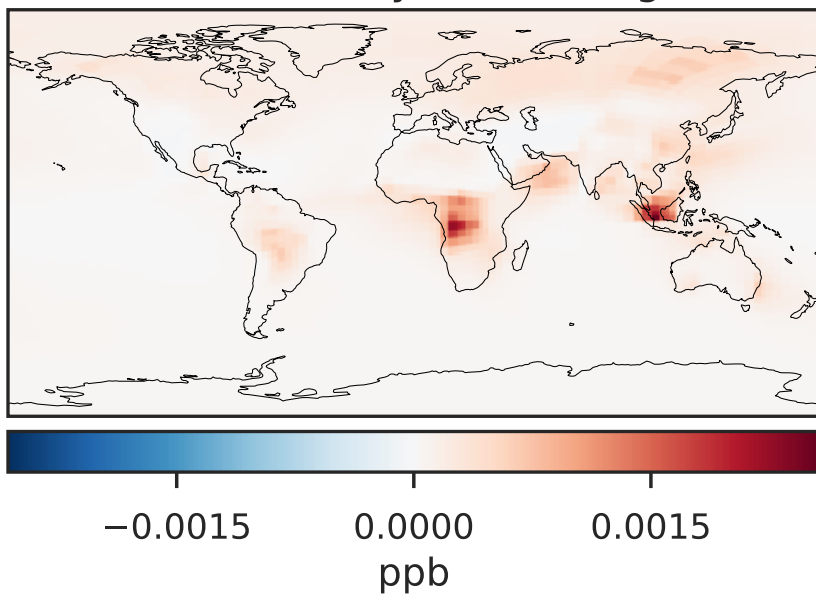
GCHP\_14.0.0 (Ref)  
c24



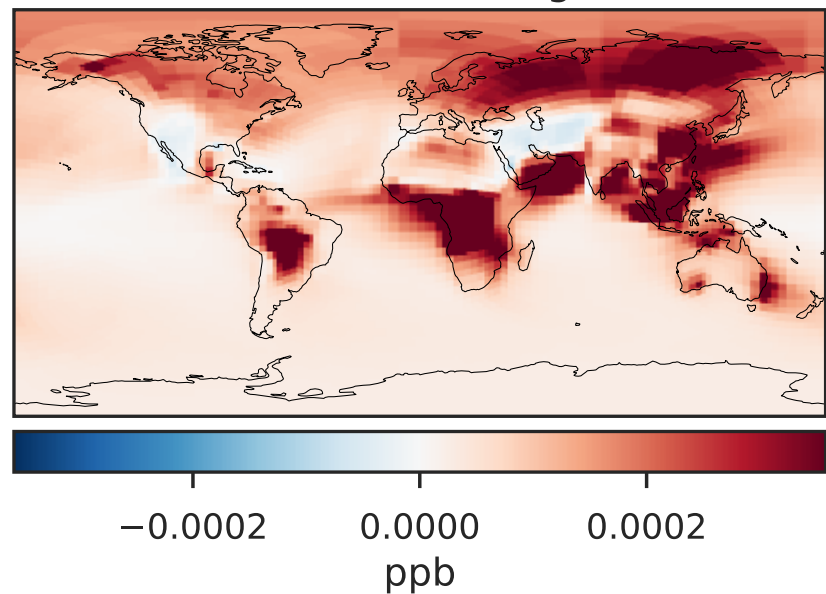
GCHP\_14.2.0 (Dev)  
c24



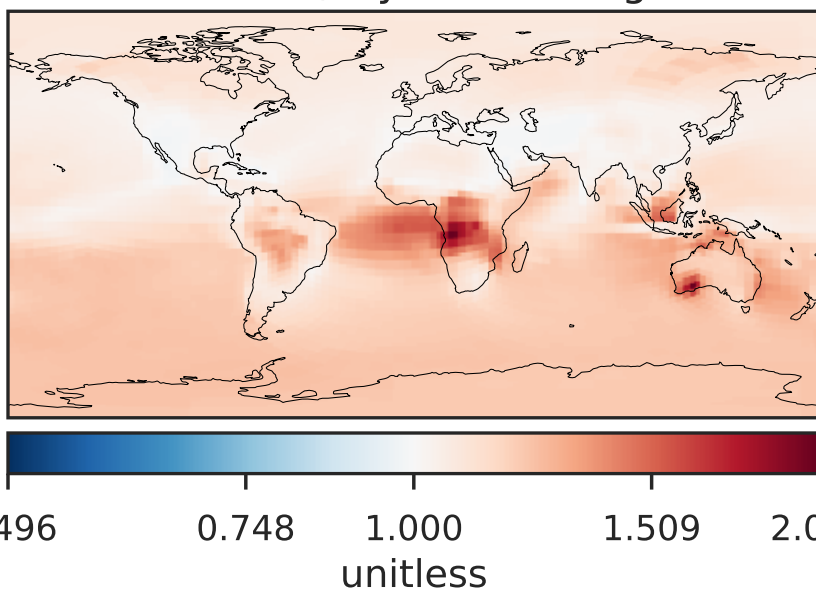
Difference (1x1.25)  
Dev - Ref, Dynamic Range



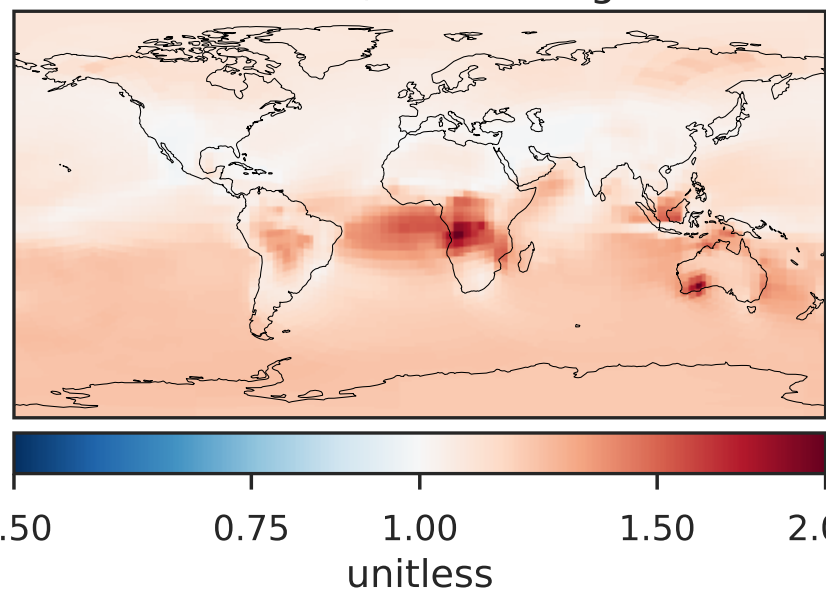
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

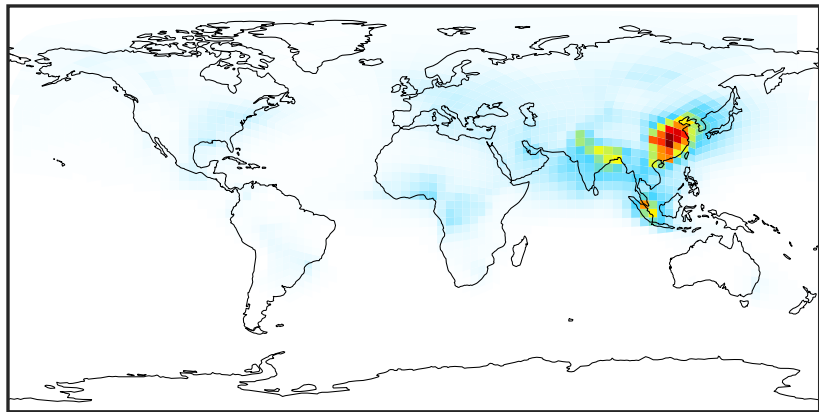


Ratio (1x1.25)  
Dev/Ref, Fixed Range



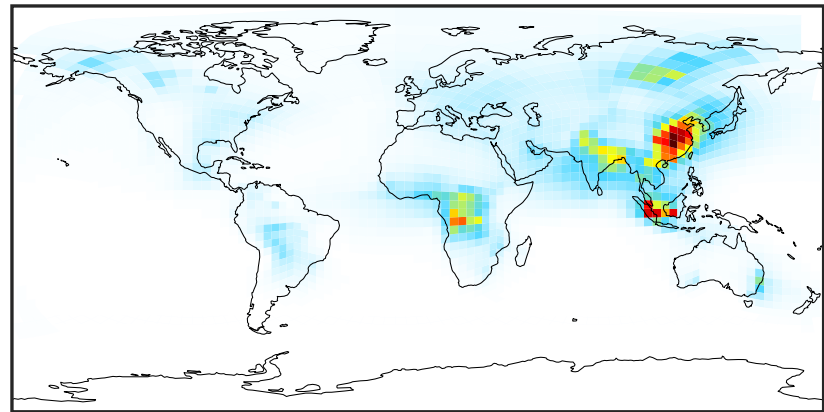
# SpeciesConcVV\_AONITA (AnnualMean)

GCHP\_14.0.0 (Ref)  
c24



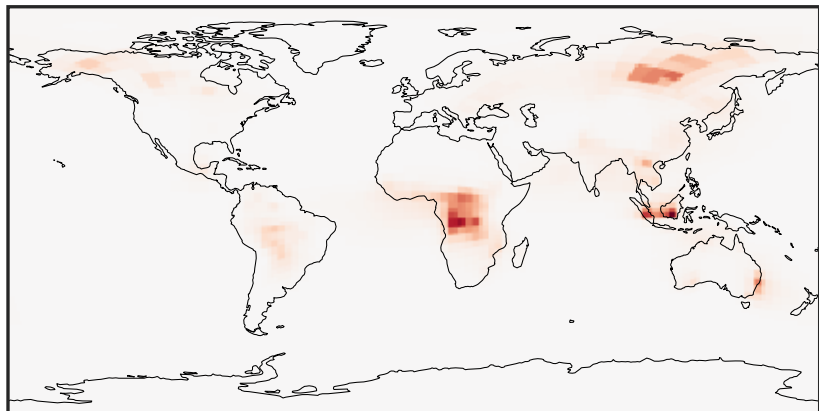
0.000 0.045 0.090 0.135 0.180  
ppb

GCHP\_14.2.0 (Dev)  
c24



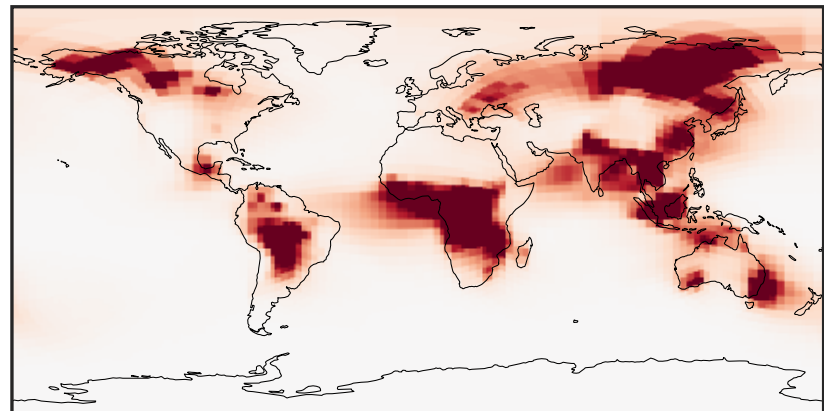
0.000 0.045 0.090 0.135 0.180  
ppb

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



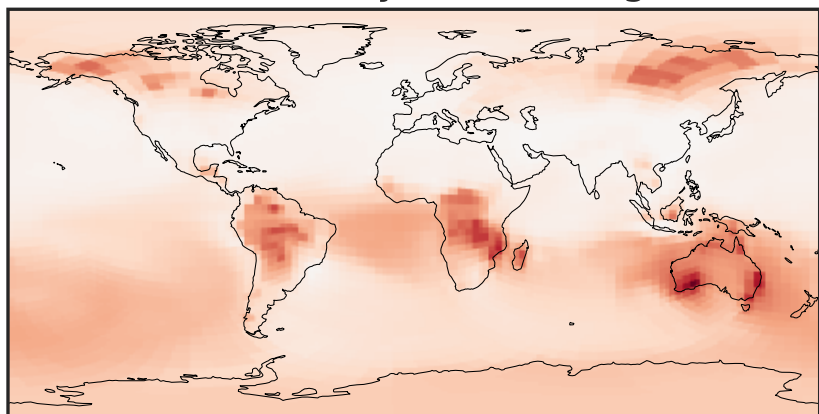
-0.1135 -0.0568 0.0000 0.0568 0.1135  
ppb

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



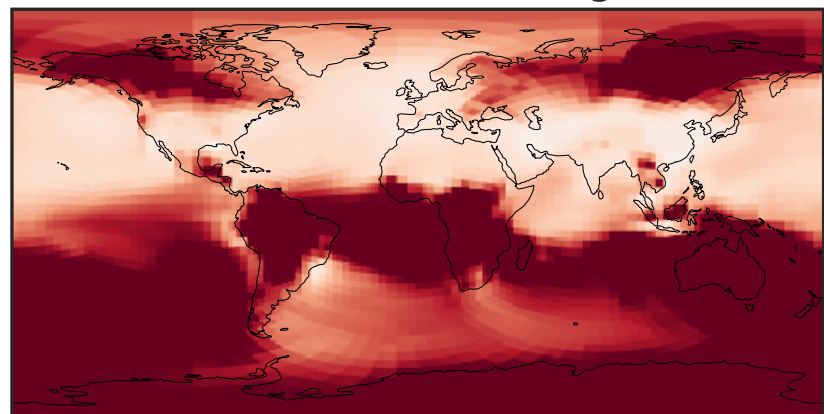
-0.004 0.000 0.004  
ppb

Ratio (1x1.25)  
Dev/Ref, Dynamic Range



1e-01 1 10  
unitless

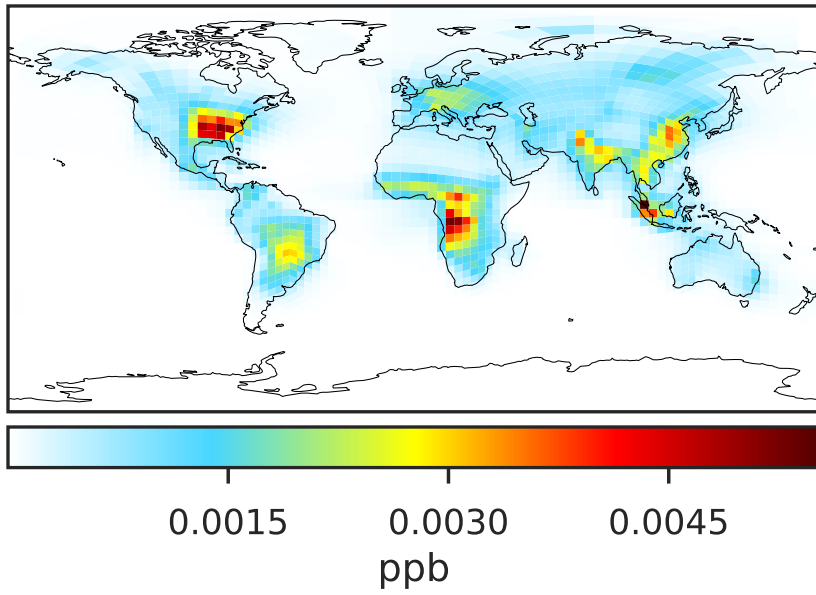
Ratio (1x1.25)  
Dev/Ref, Fixed Range



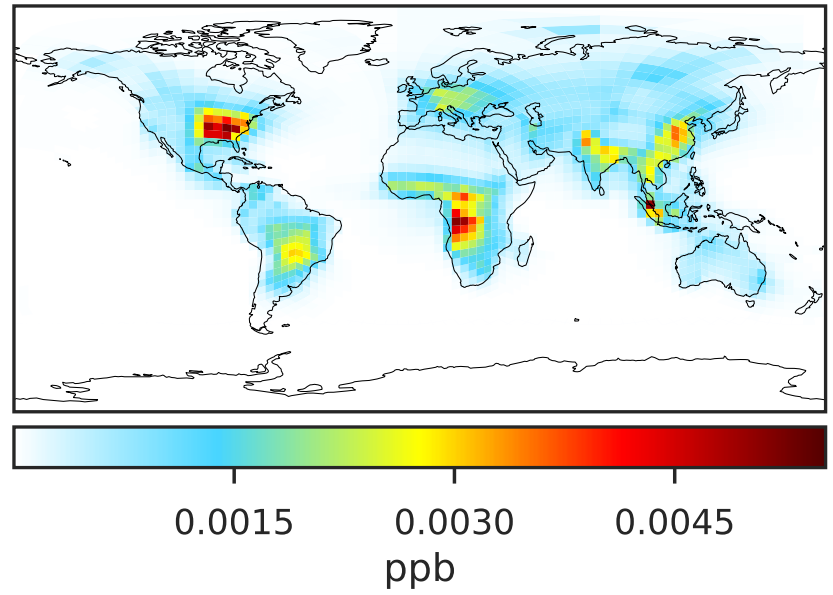
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_ETHN (AnnualMean)

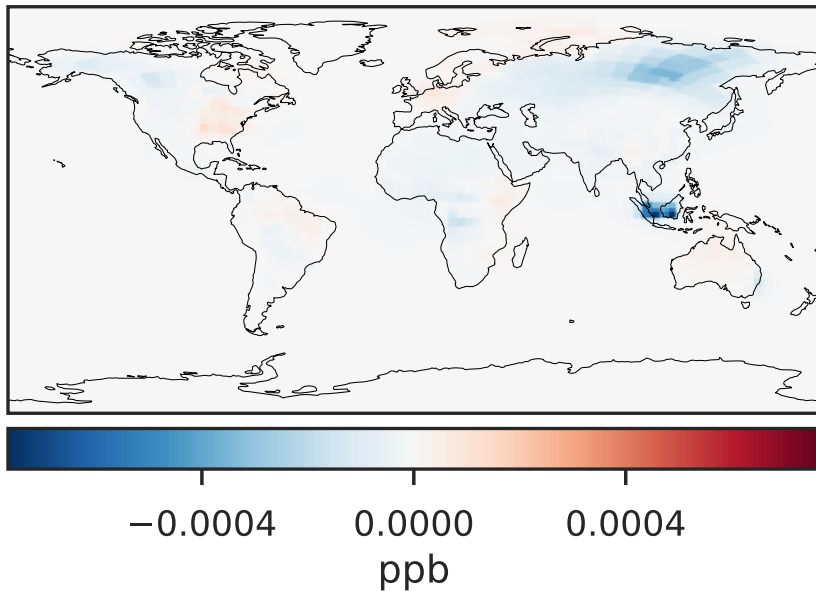
GCHP\_14.0.0 (Ref)  
c24



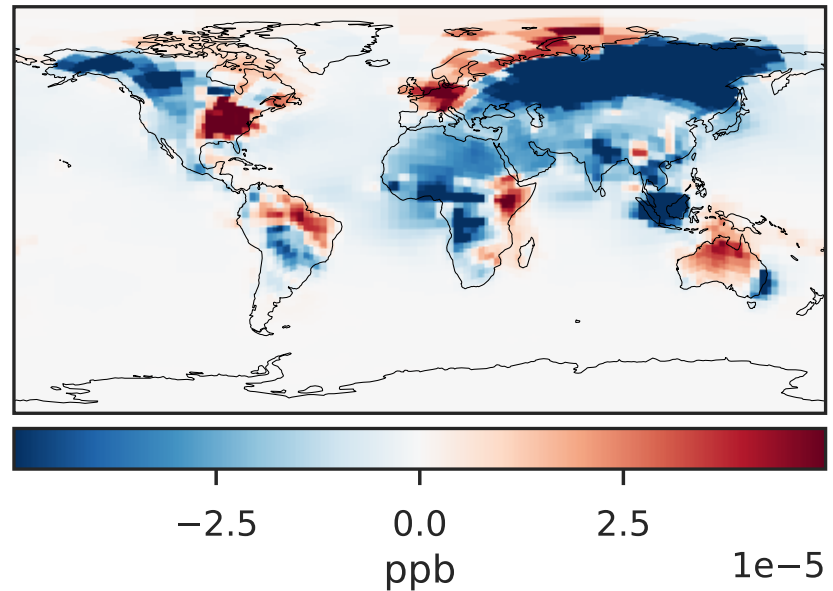
GCHP\_14.2.0 (Dev)  
c24



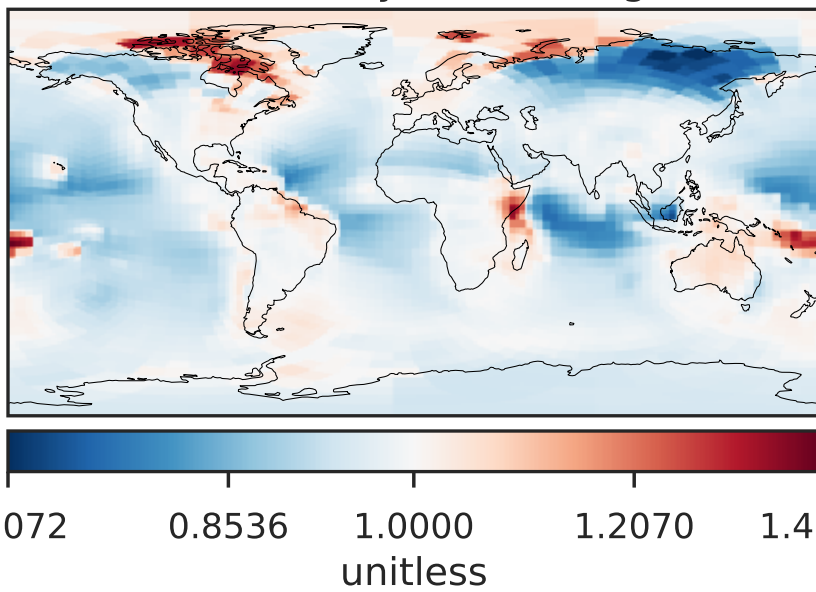
Difference (1x1.25)  
Dev - Ref, Dynamic Range



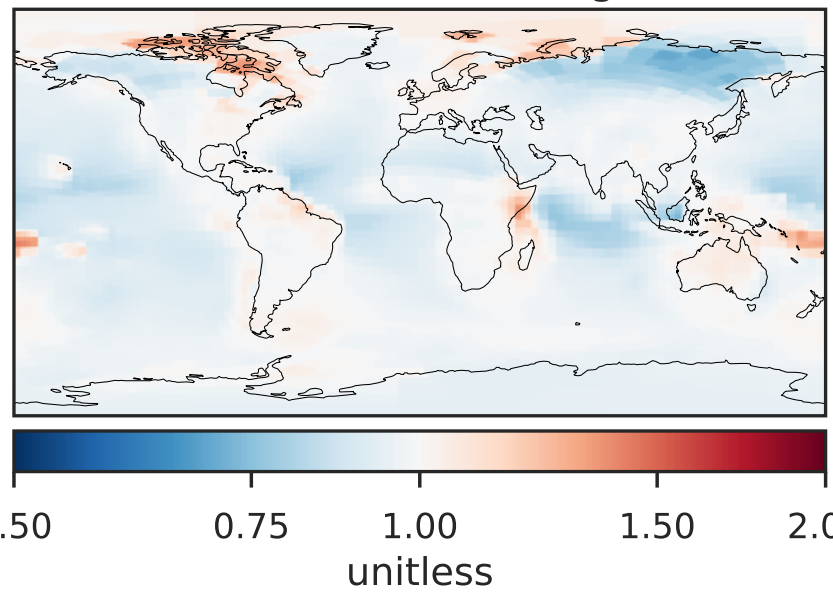
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range



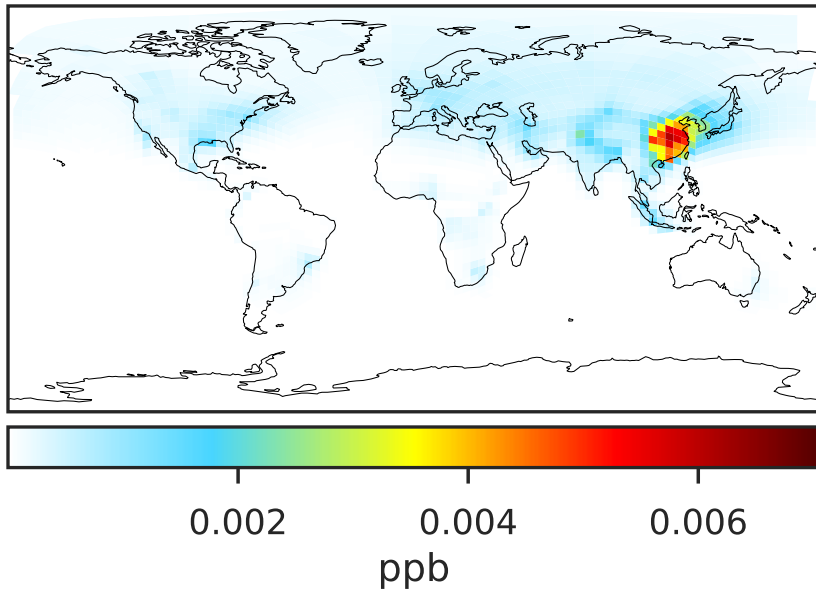
Ratio (1x1.25)  
Dev/Ref, Fixed Range



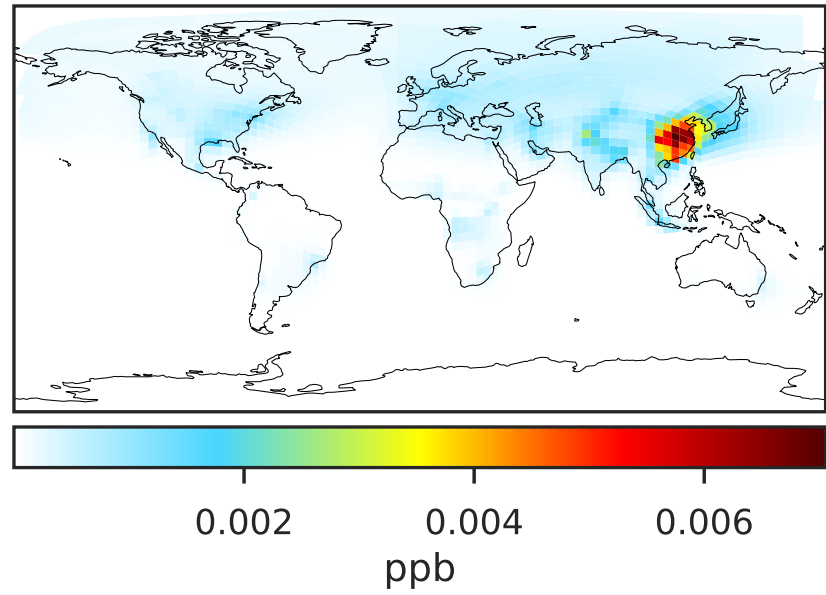


# SpeciesConcVV\_BZPAN (AnnualMean)

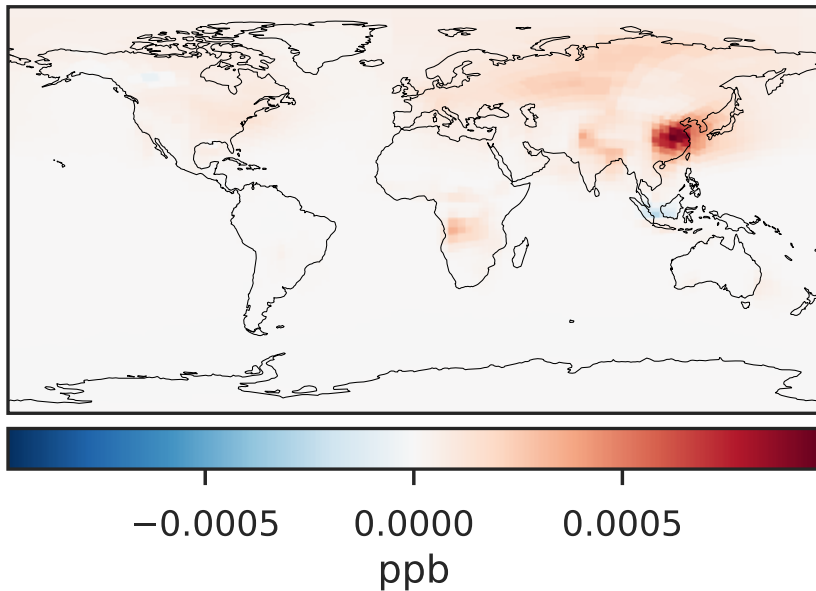
GCHP\_14.0.0 (Ref)  
c24



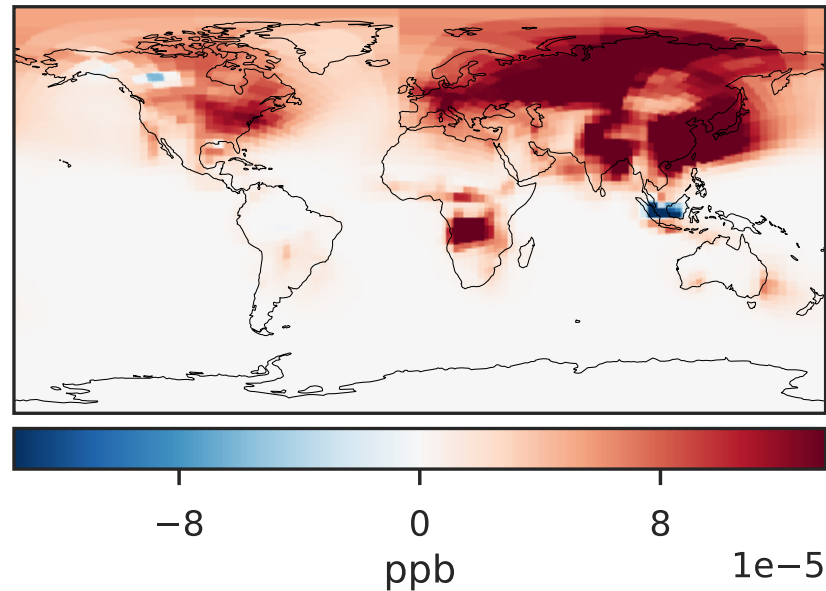
GCHP\_14.2.0 (Dev)  
c24



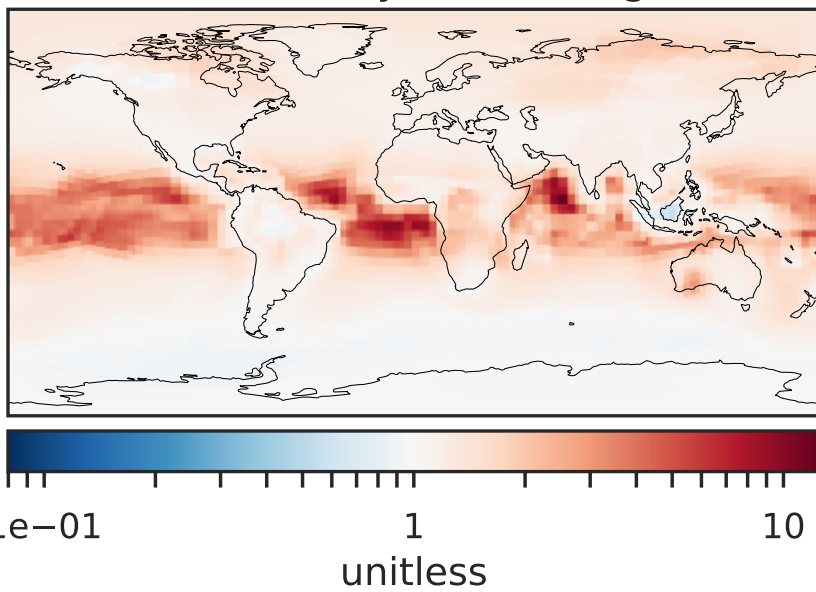
Difference (1x1.25)  
Dev - Ref, Dynamic Range



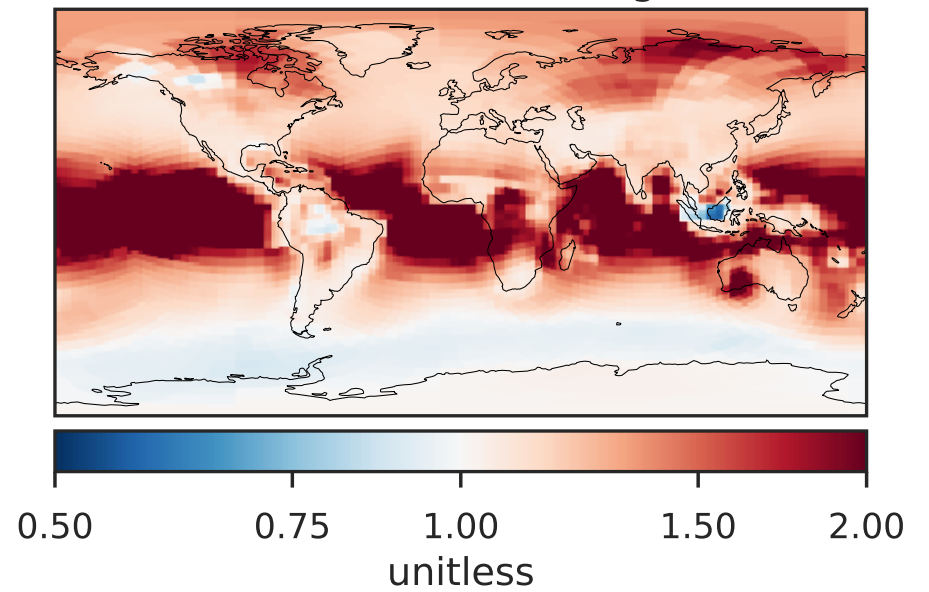
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)  
Dev/Ref, Dynamic Range

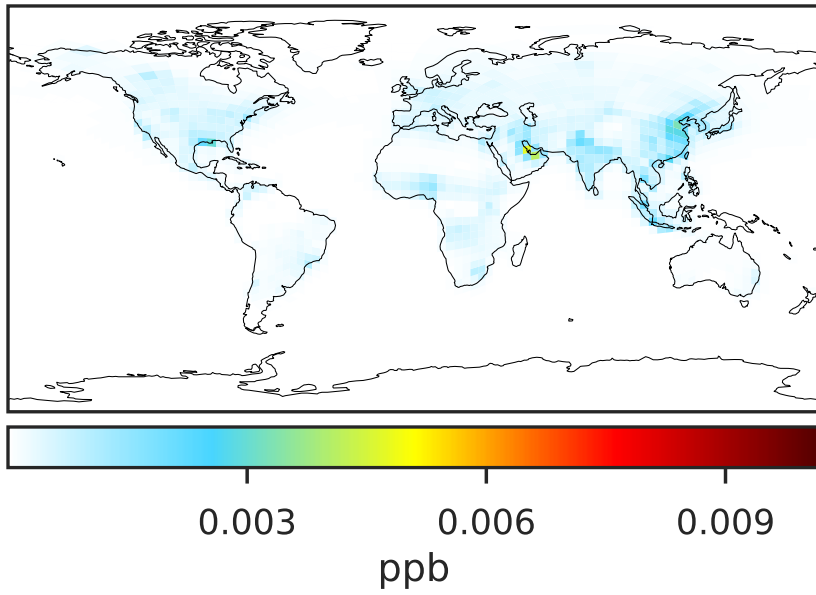


Ratio (1x1.25)  
Dev/Ref, Fixed Range

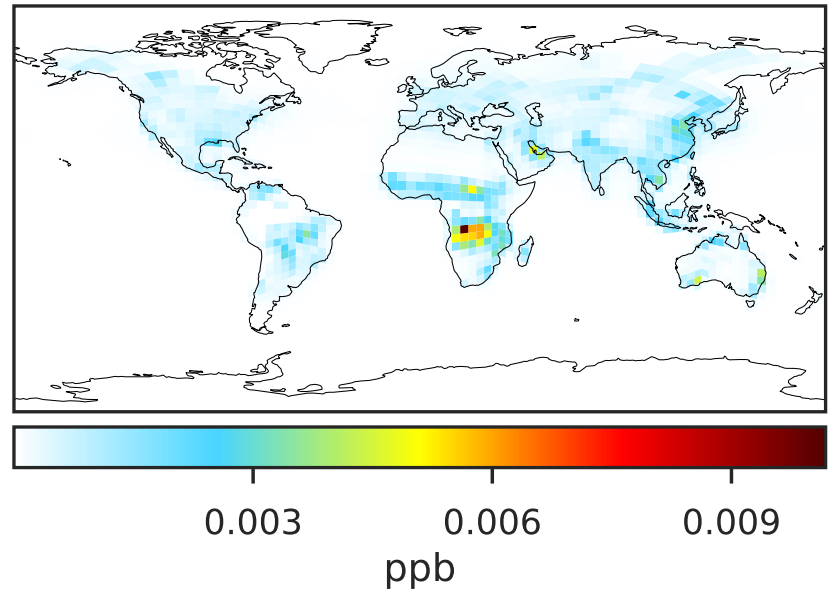


# SpeciesConcVV\_NPHEN (AnnualMean)

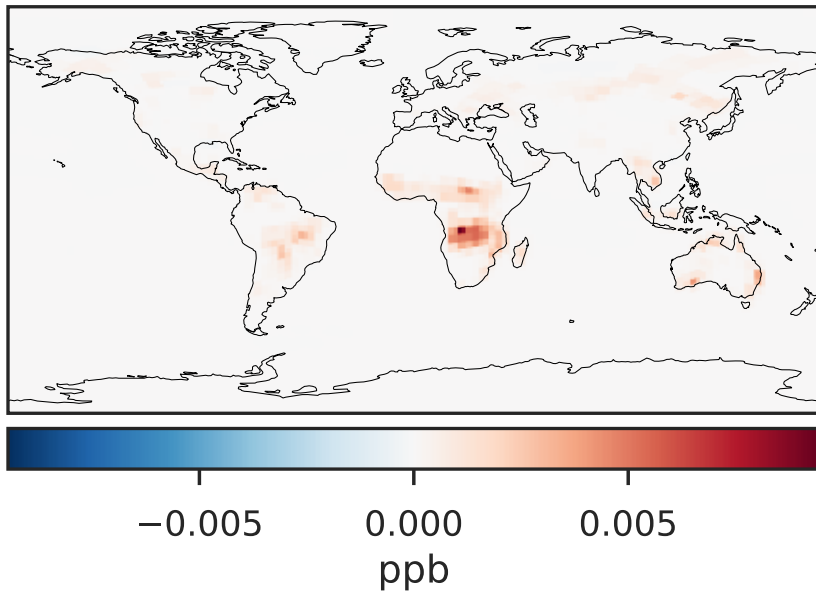
GCHP\_14.0.0 (Ref)  
c24



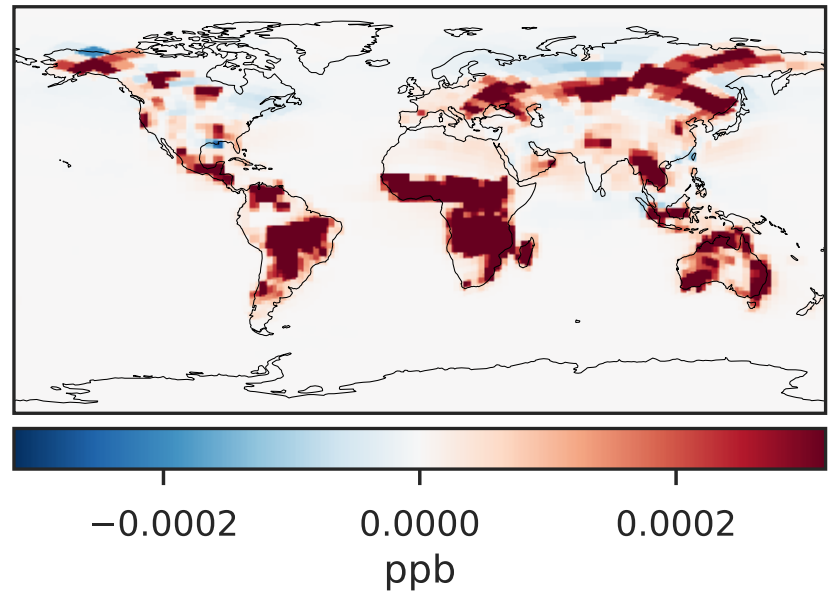
GCHP\_14.2.0 (Dev)  
c24



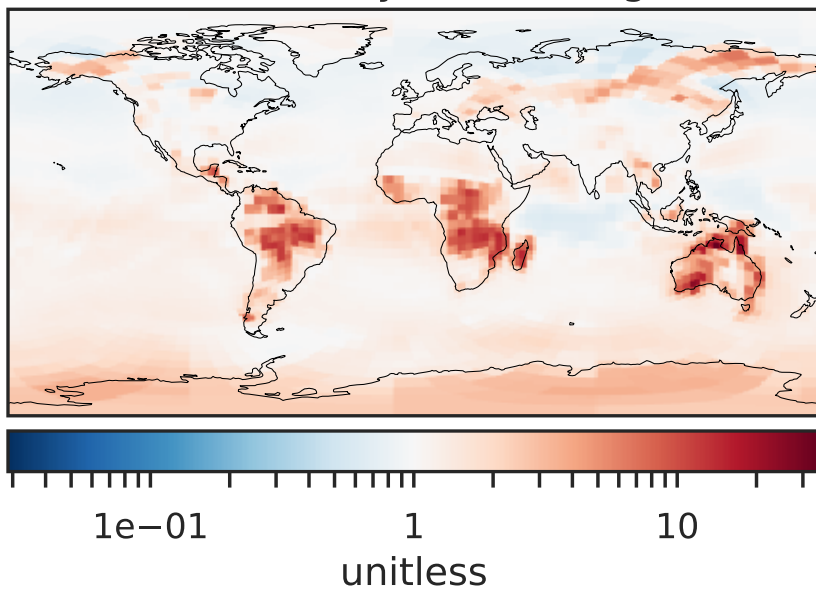
Difference (1x1.25)  
Dev - Ref, Dynamic Range



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



Ratio (1x1.25)  
Dev/Ref, Dynamic Range



Ratio (1x1.25)  
Dev/Ref, Fixed Range

