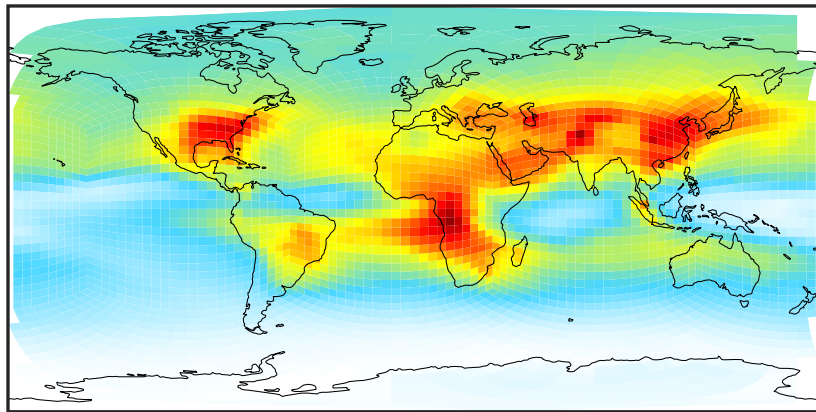


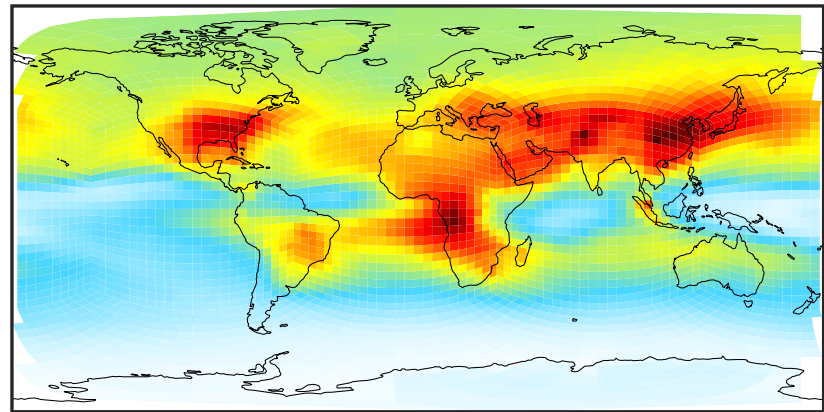
SpeciesConcVV_NOy (AnnualMean)

GCHP_14.0.0 (Ref)
c24



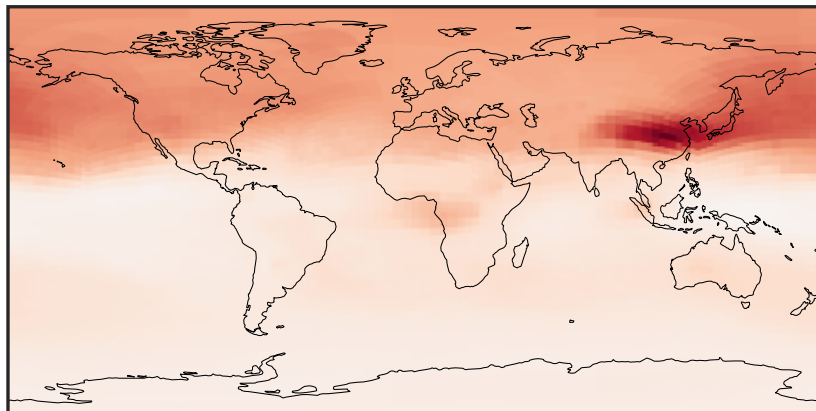
0.0400 0.1779 0.3558 0.5338 0.7517
ppb

GCHP_14.2.0 (Dev)
c24



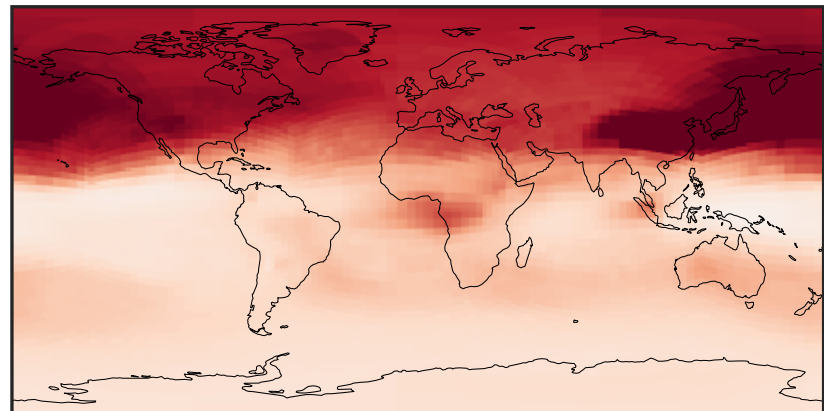
0.0400 0.1779 0.3558 0.5338 0.7517
ppb

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



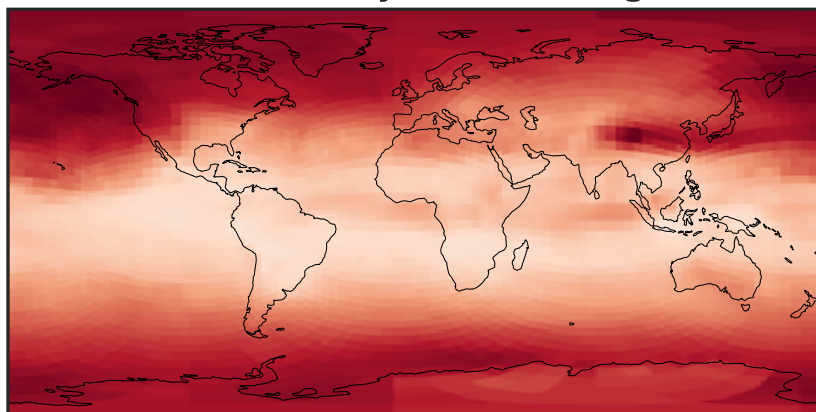
-0.1361 -0.0681 0.0000 0.0681 0.1361
ppb

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



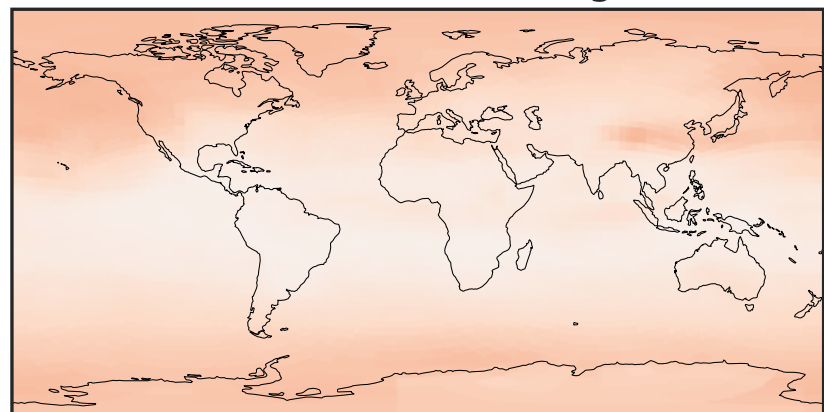
-0.0689 -0.0345 0.0000 0.0345 0.0689
ppb

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



0.7978 0.8989 1.0000 1.1267 1.2535
unitless

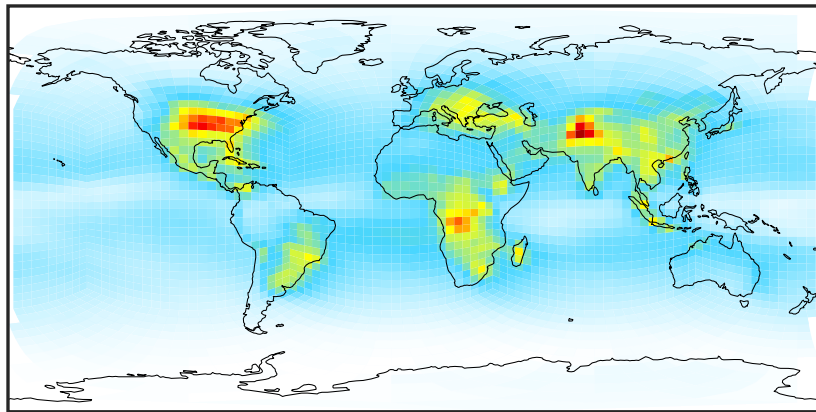
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

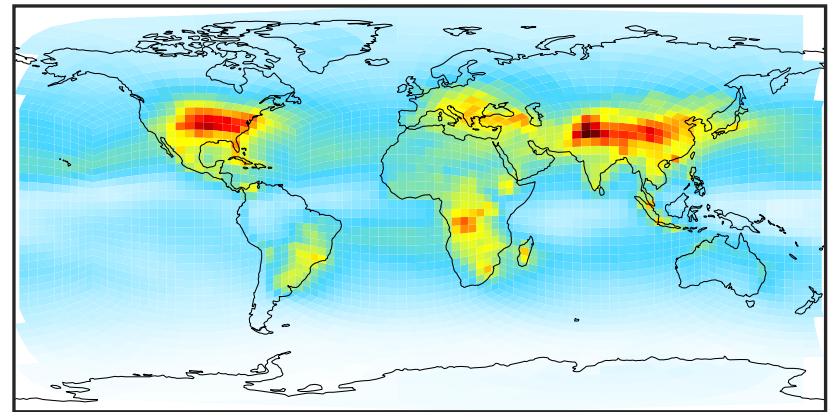
SpeciesConcVV_NOx (AnnualMean)

GCHP_14.0.0 (Ref)
c24



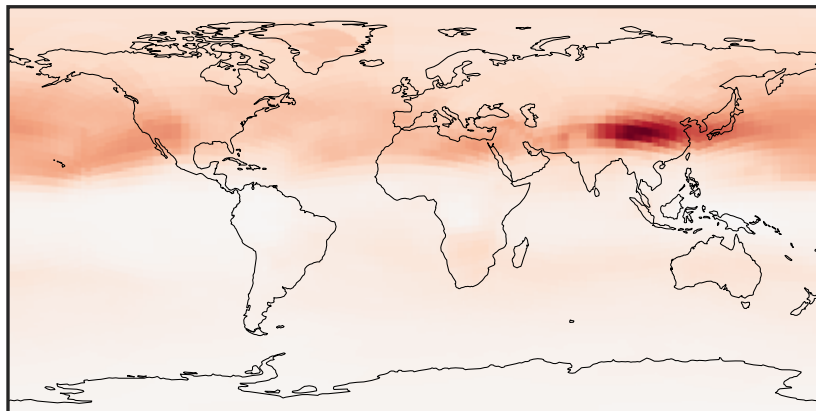
0.0045 0.0384 0.0768 0.1152 0.1581
ppb

GCHP_14.2.0 (Dev)
c24



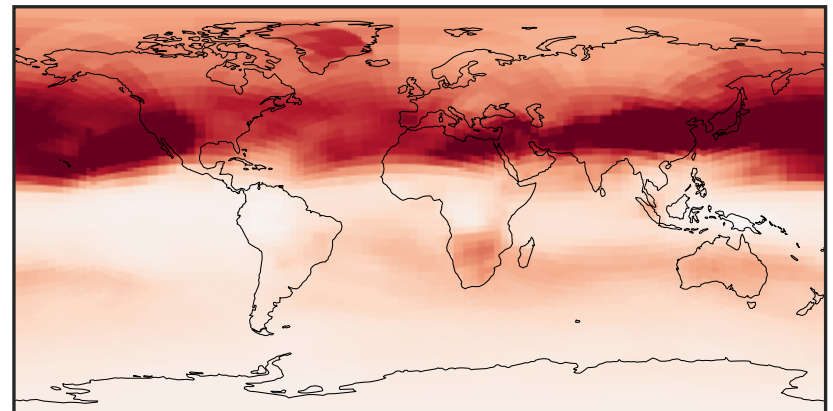
0.0045 0.0384 0.0768 0.1152 0.1581
ppb

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



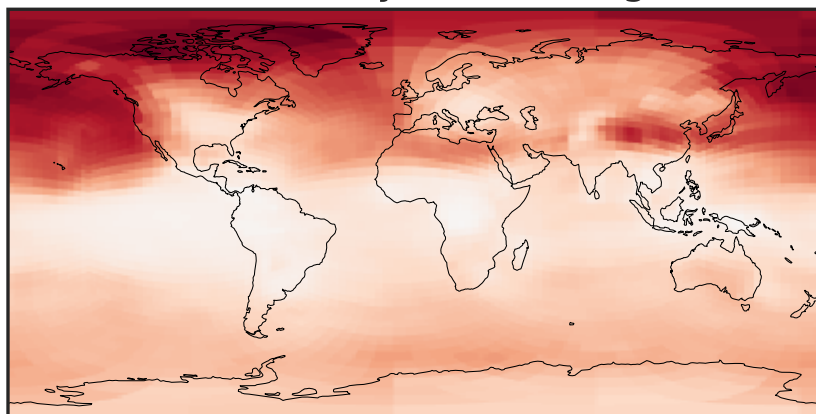
-0.025 0.000 0.025
ppb

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



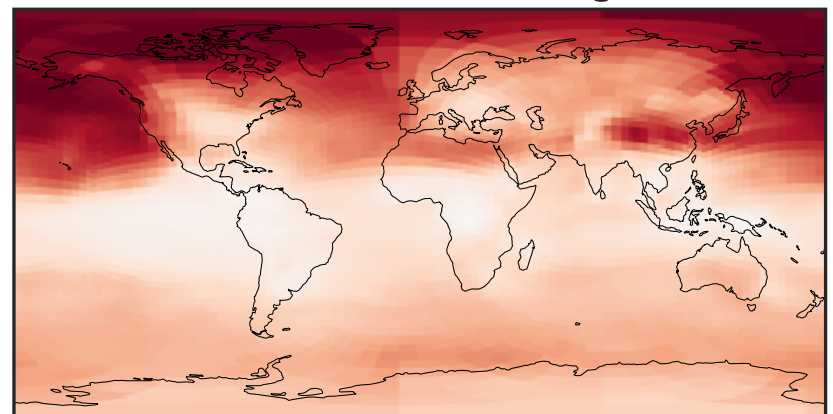
-0.01 0.00 0.01
ppb

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



0.465 0.732 1.000 1.576 2.152
unitless

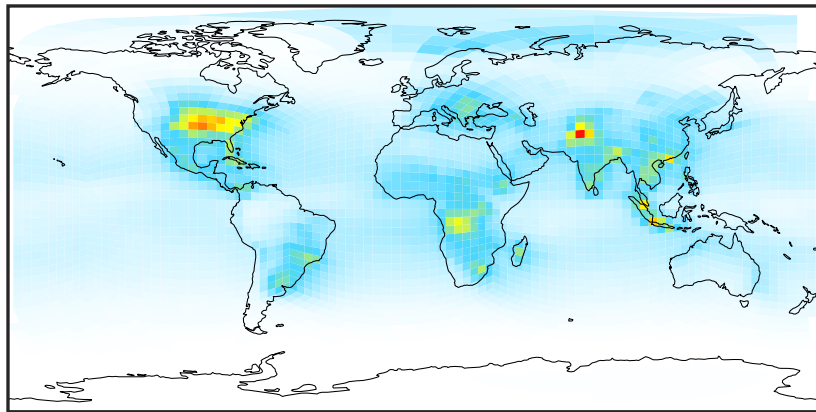
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

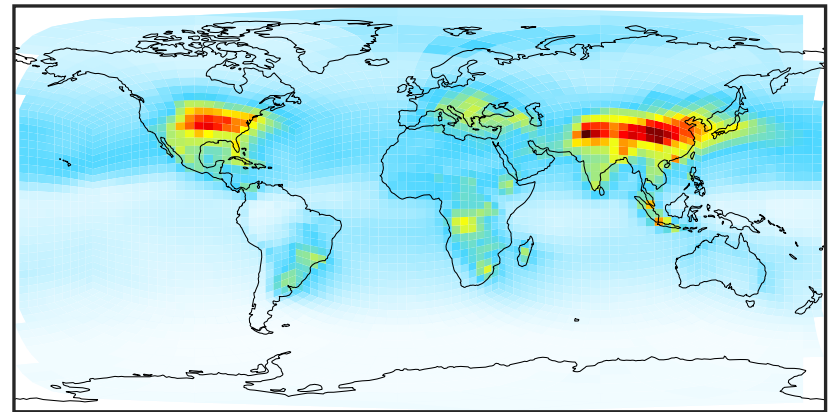
SpeciesConcVV_HNO2 (AnnualMean)

GCHP_14.0.0 (Ref)
c24



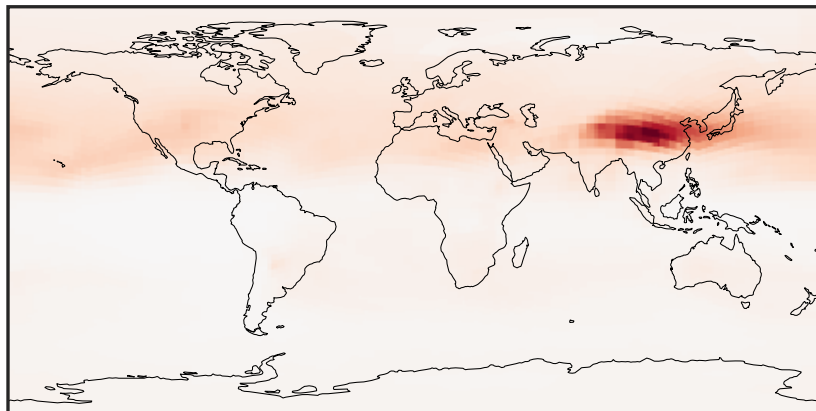
0.0003 0.0006 0.0009
ppb

GCHP_14.2.0 (Dev)
c24



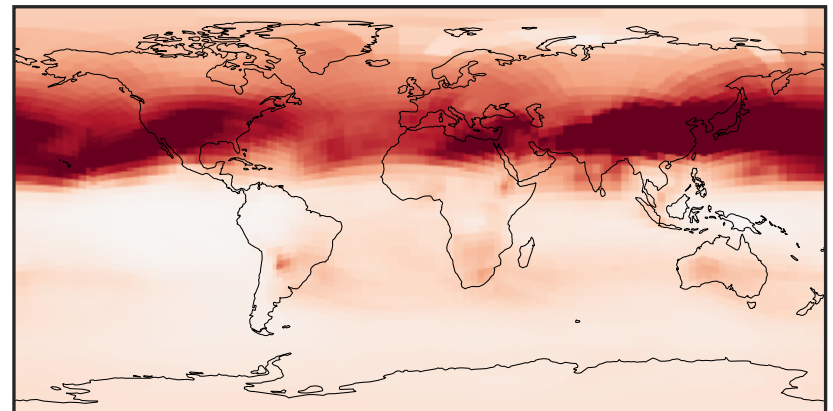
0.0003 0.0006 0.0009
ppb

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



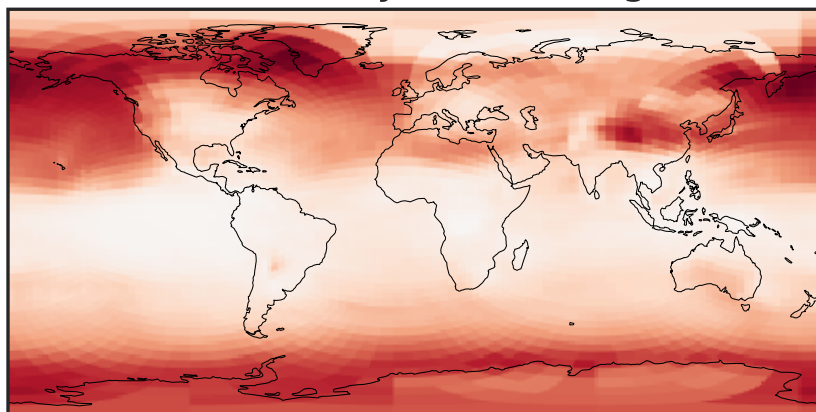
-0.0004 0.0000 0.0004
ppb

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



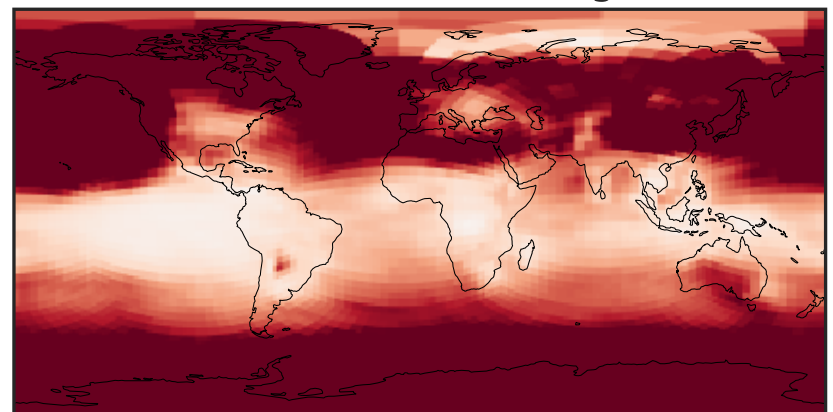
-0.0001 0.0000 0.0001
ppb

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



0.150 0.575 1.000 3.833 6.667
unitless

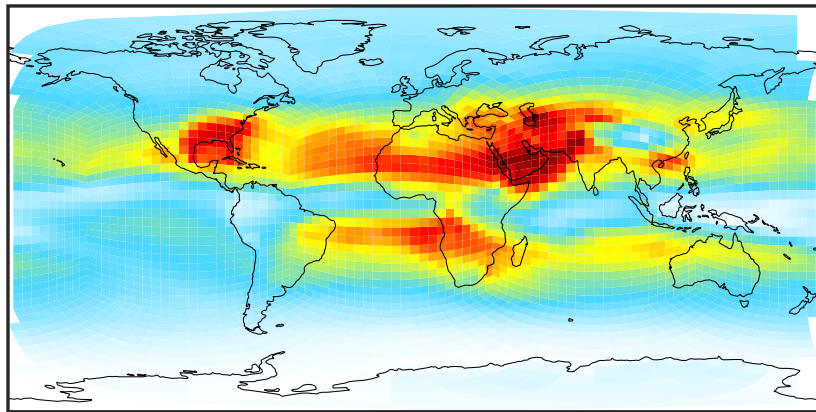
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

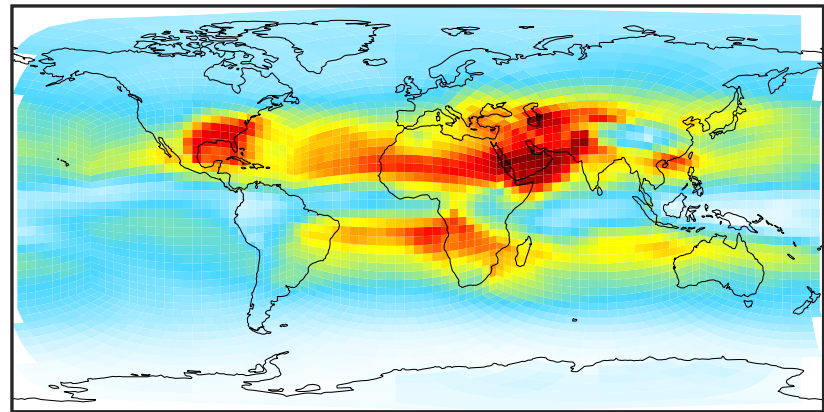
SpeciesConcVV_HNO3 (AnnualMean)

GCHP_14.0.0 (Ref)
c24



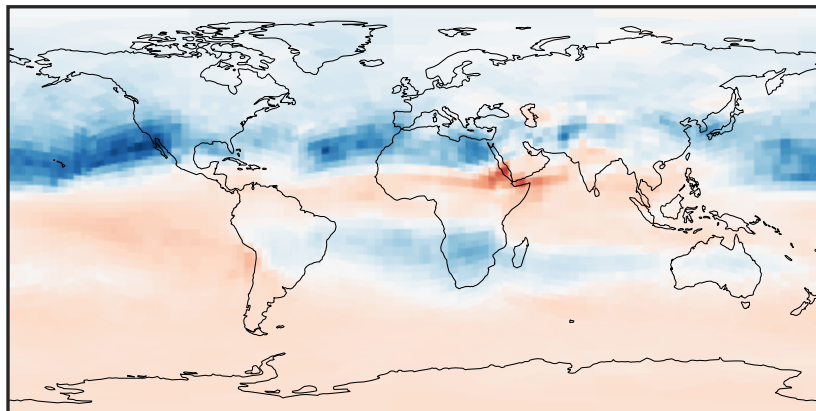
0.0102 0.0751 0.1501 0.2252 0.3104
ppb

GCHP_14.2.0 (Dev)
c24



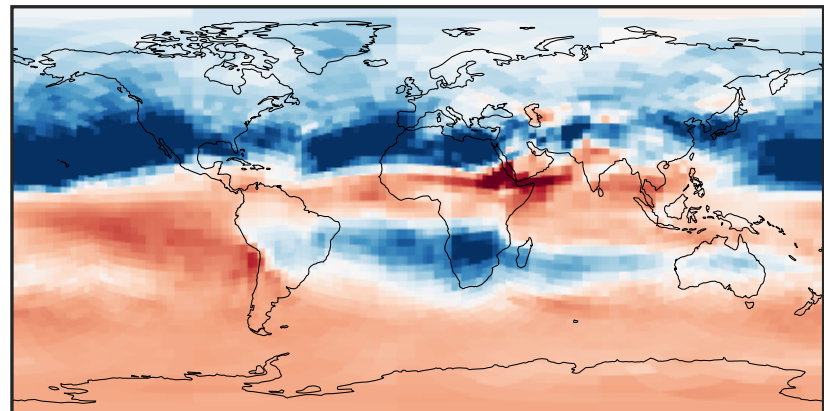
0.0102 0.0751 0.1501 0.2252 0.3104
ppb

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



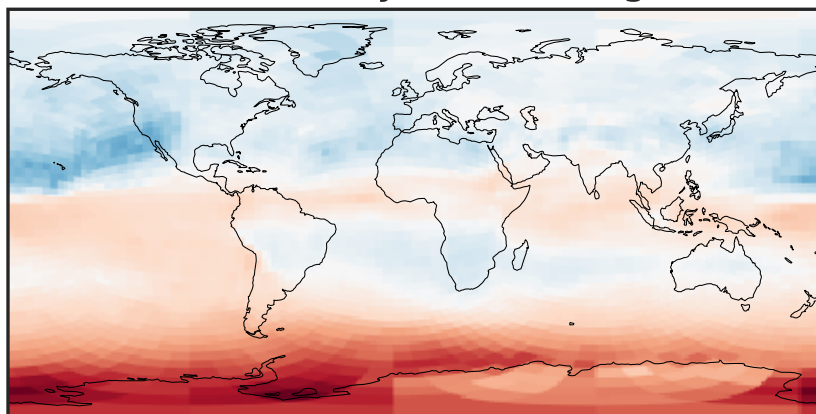
-0.01 0.00 0.01
ppb

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



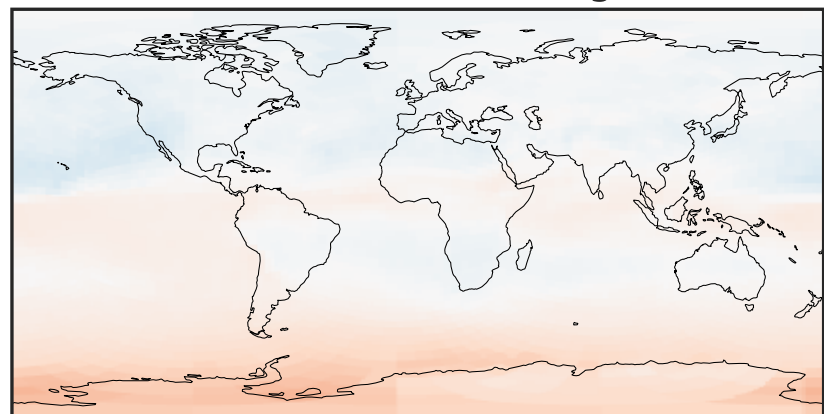
-0.004 0.000 0.004
ppb

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



0.7929 0.8964 1.0000 1.1306 1.2613
unitless

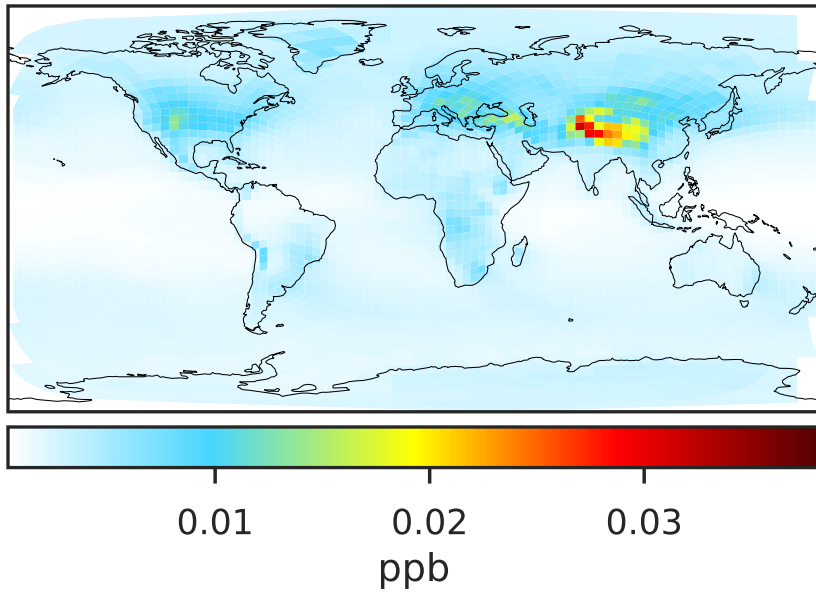
Ratio (1x1.25)
Dev/Ref, Fixed Range



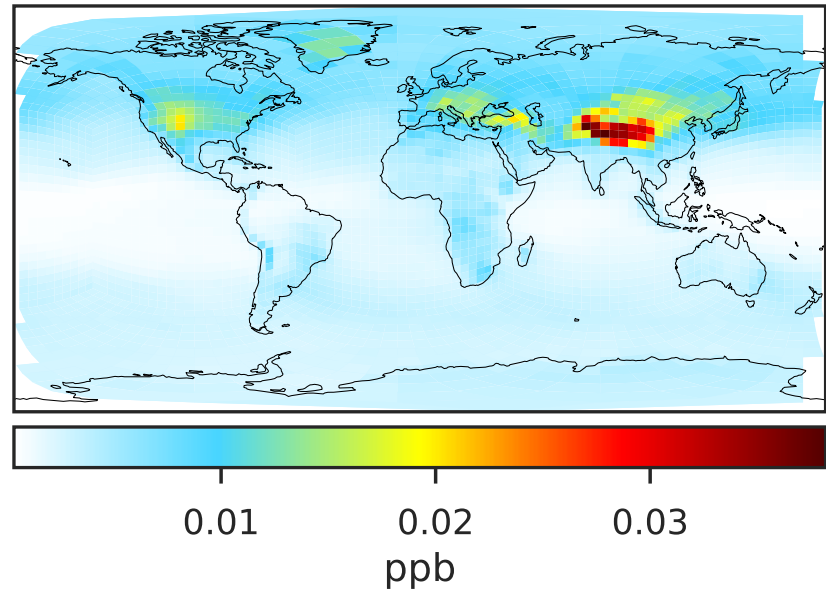
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_HNO4 (AnnualMean)

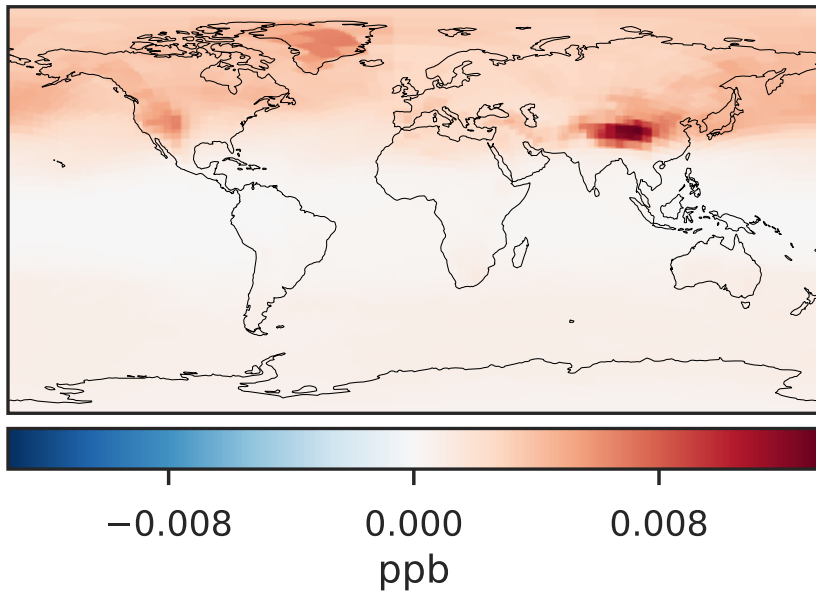
GCHP_14.0.0 (Ref)
c24



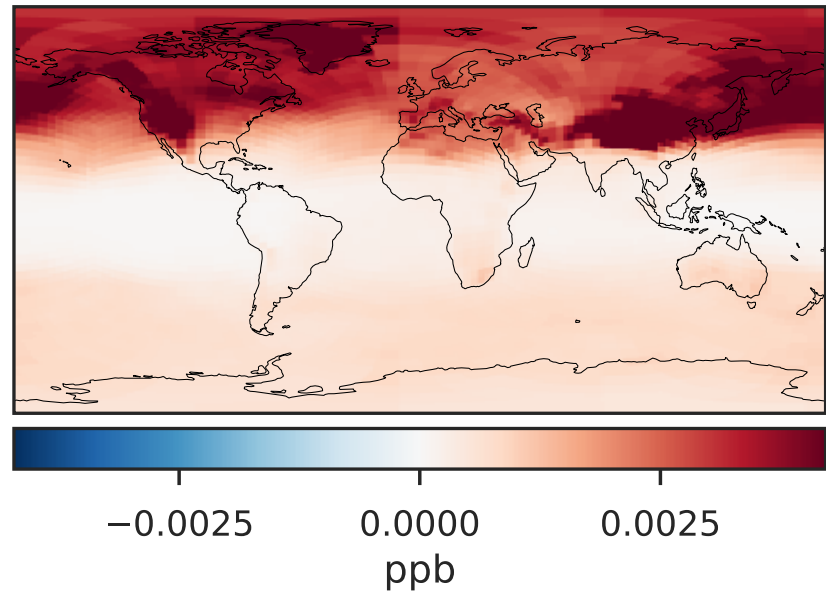
GCHP_14.2.0 (Dev)
c24



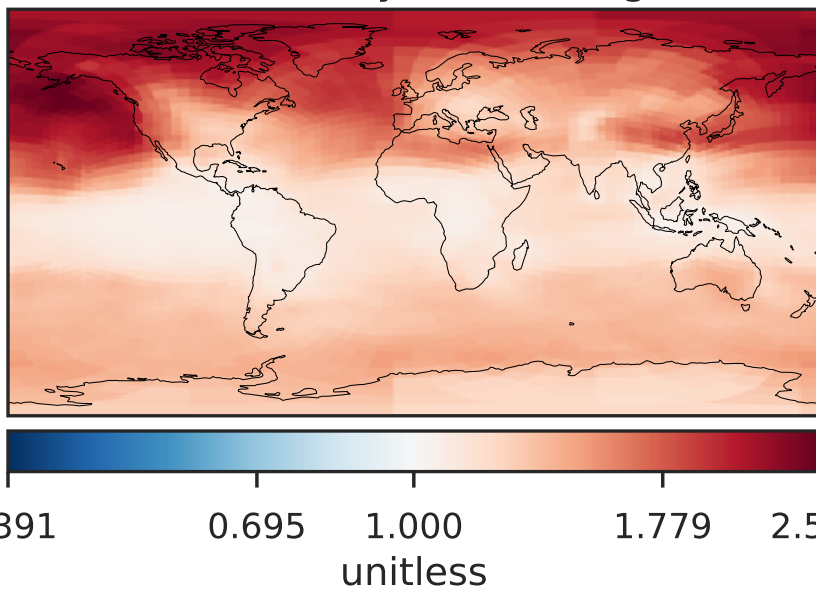
Difference (1x1.25)
Dev - Ref, Dynamic Range



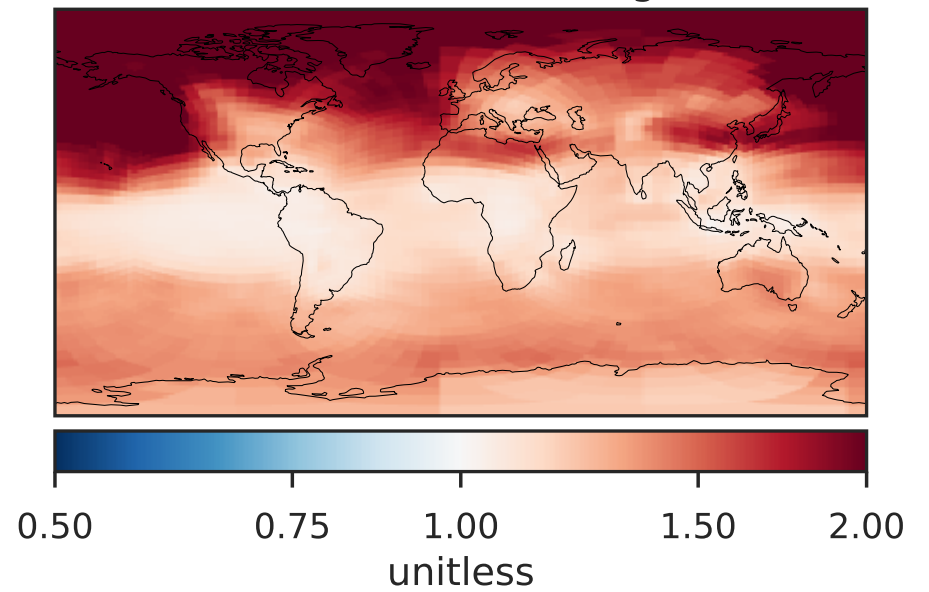
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

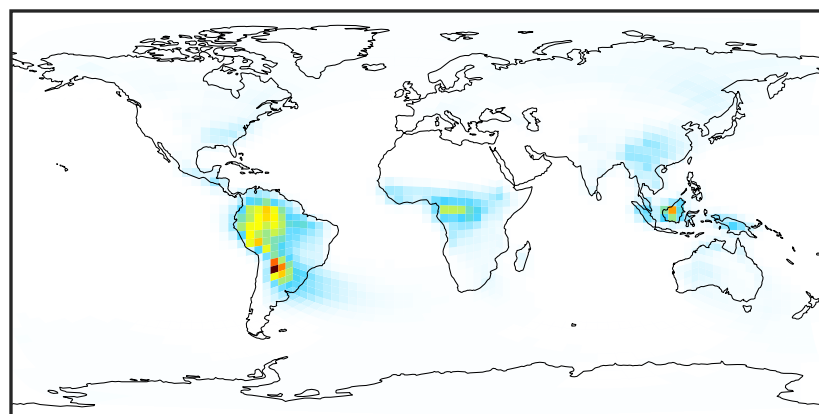


Ratio (1x1.25)
Dev/Ref, Fixed Range



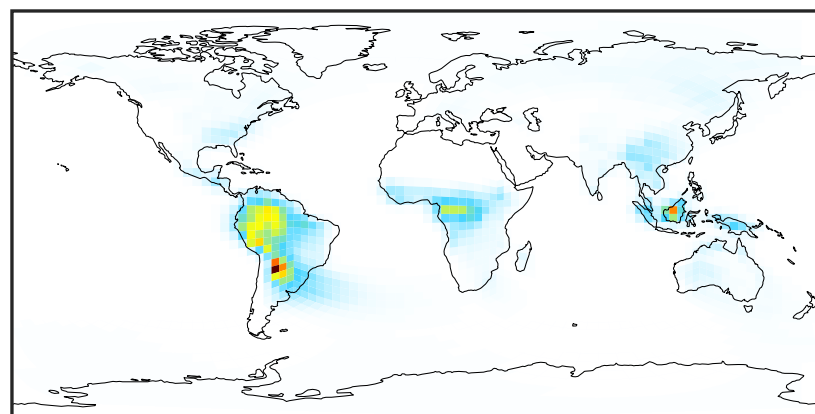
SpeciesConcVV_MPAN (AnnualMean)

GCHP_14.0.0 (Ref)
c24



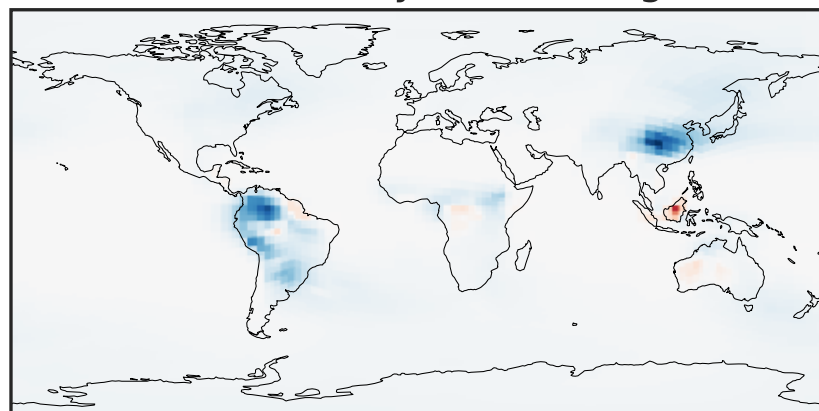
0.0008 0.0016 0.0024
ppb

GCHP_14.2.0 (Dev)
c24



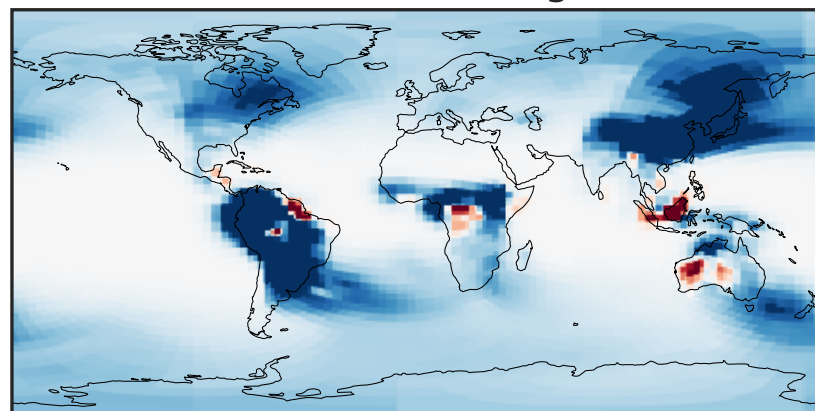
0.0008 0.0016 0.0024
ppb

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



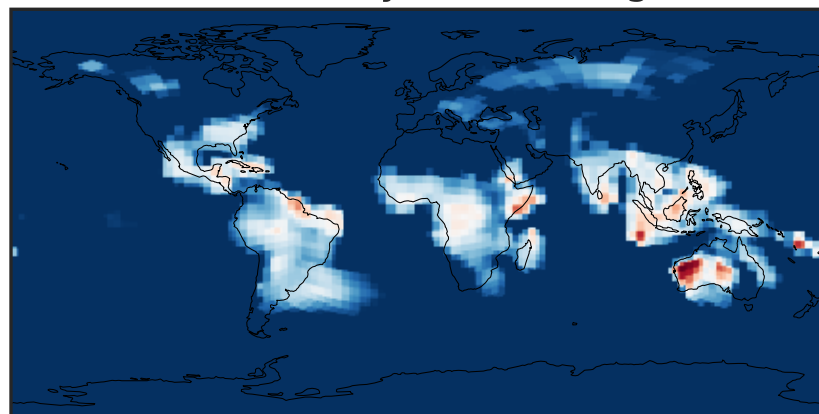
-5 0 5
ppb $1e-5$

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



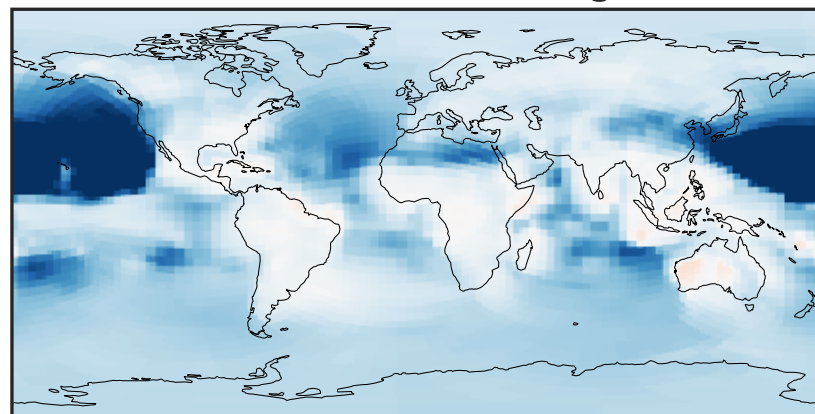
-5 0 5
ppb $1e-6$

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



0.9065 0.9532 1.0000 1.0516 1.1032
unitless

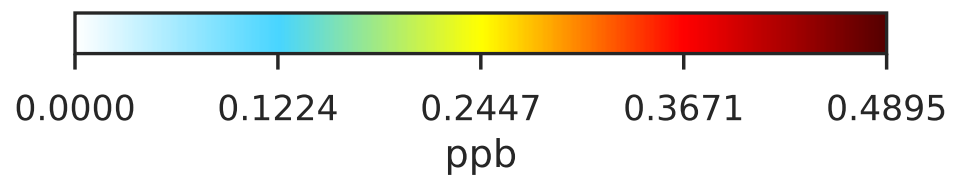
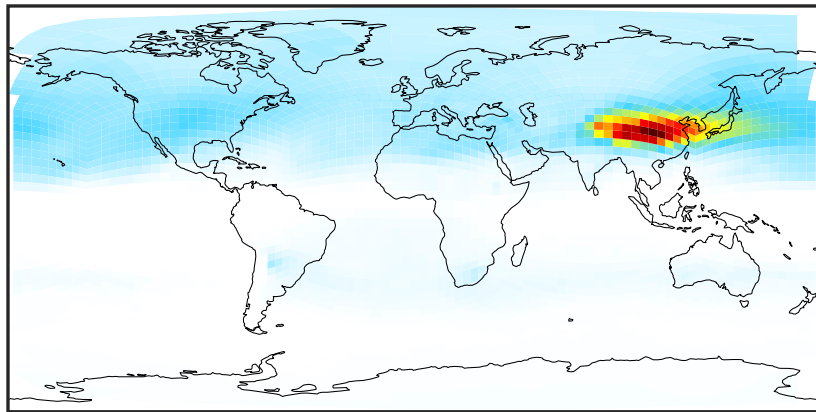
Ratio (1x1.25)
Dev/Ref, Fixed Range



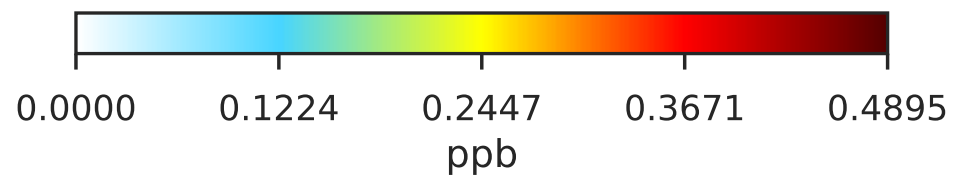
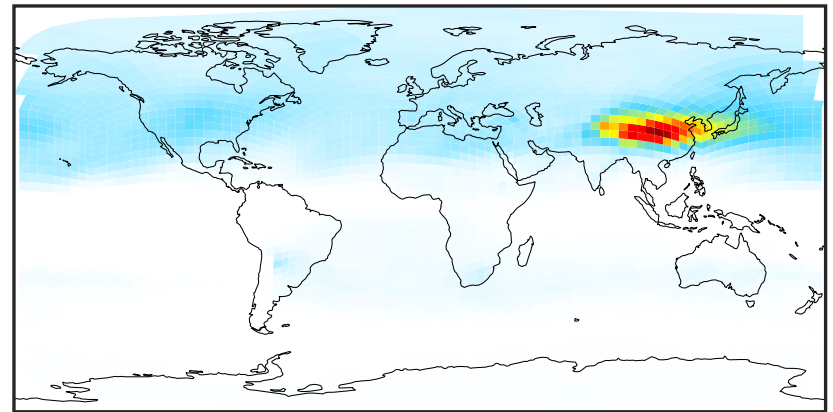
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_NIT (AnnualMean)

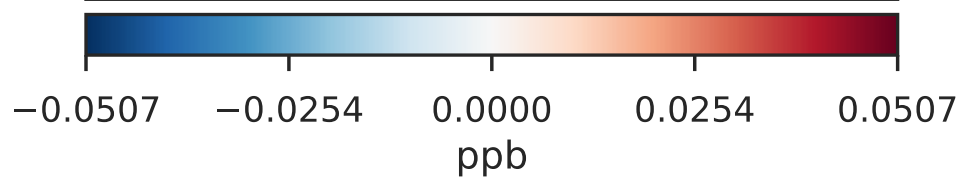
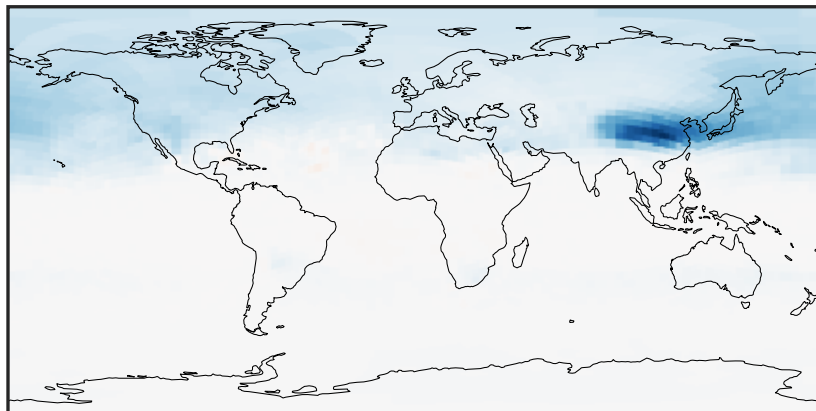
GCHP_14.0.0 (Ref)
c24



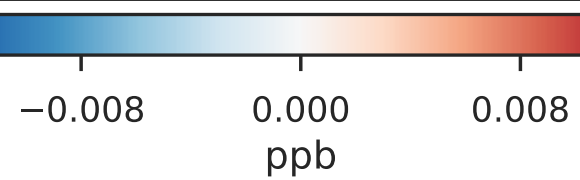
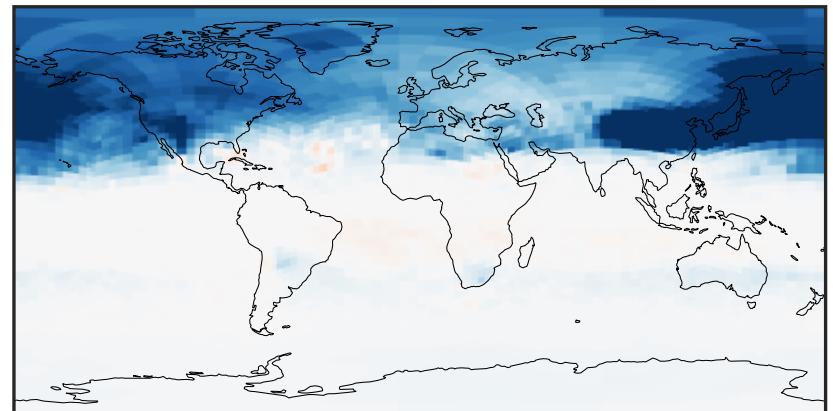
GCHP_14.2.0 (Dev)
c24



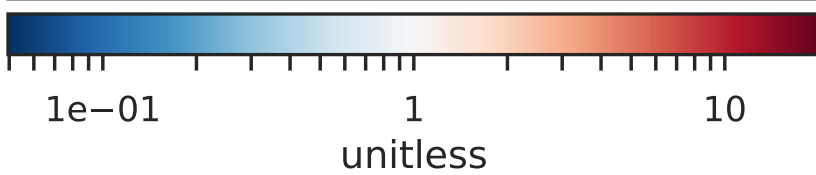
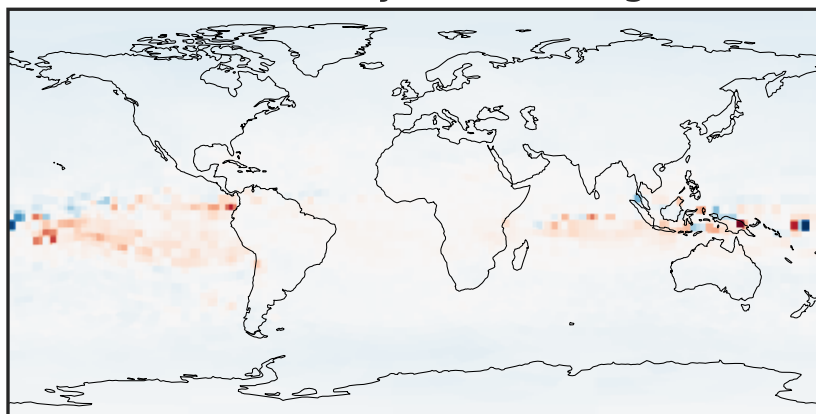
Difference (1x1.25)
Dev - Ref, Dynamic Range



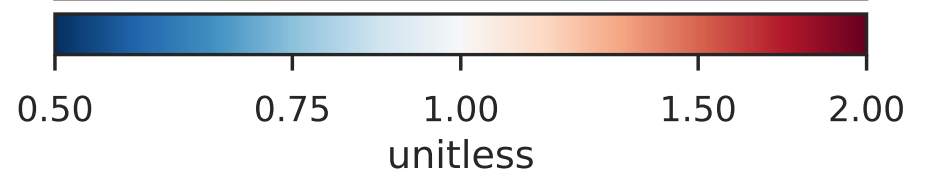
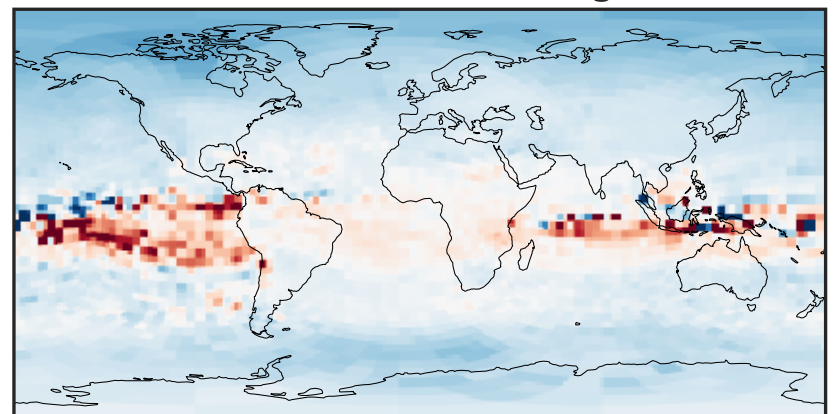
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

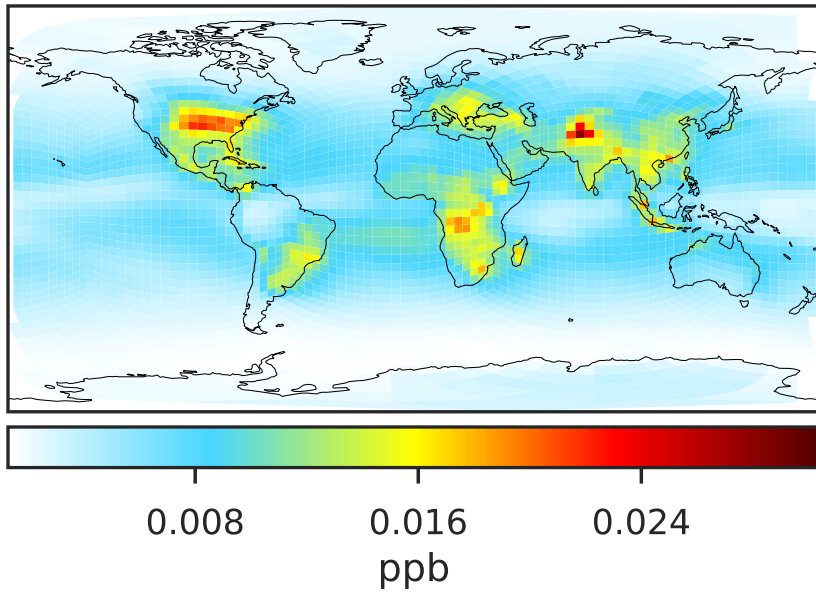


Ratio (1x1.25)
Dev/Ref, Fixed Range

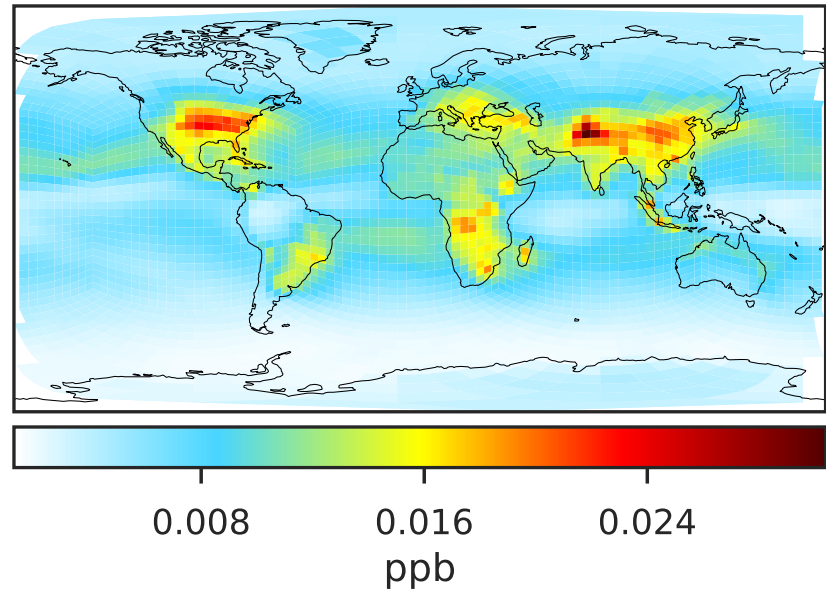


SpeciesConcVV_NO (AnnualMean)

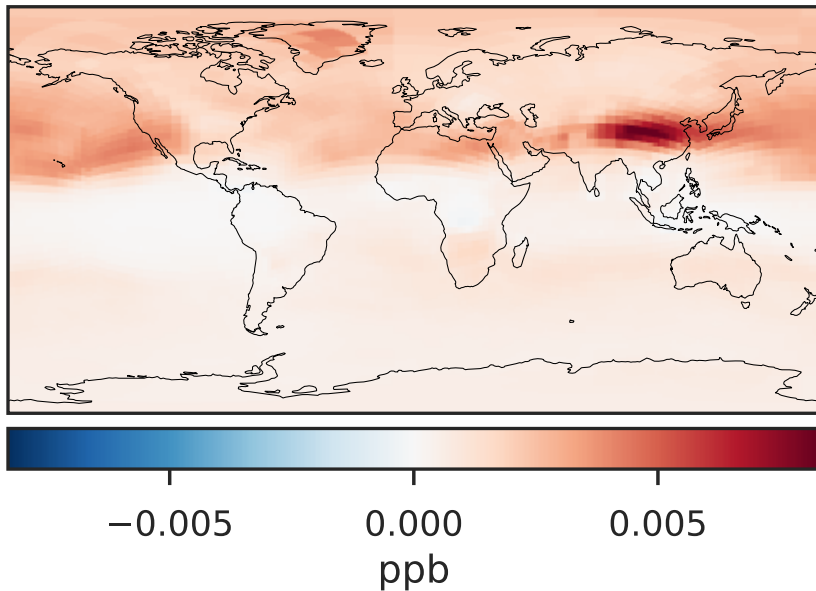
GCHP_14.0.0 (Ref)
c24



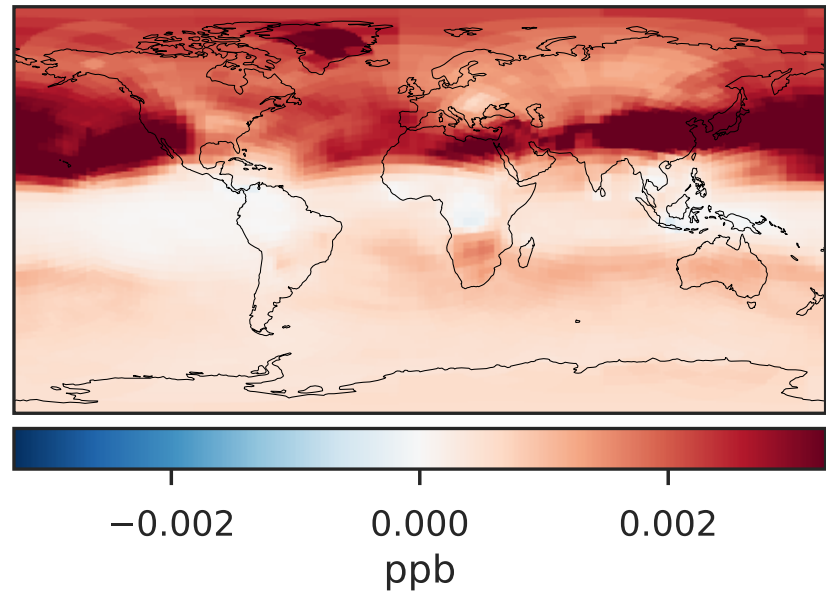
GCHP_14.2.0 (Dev)
c24



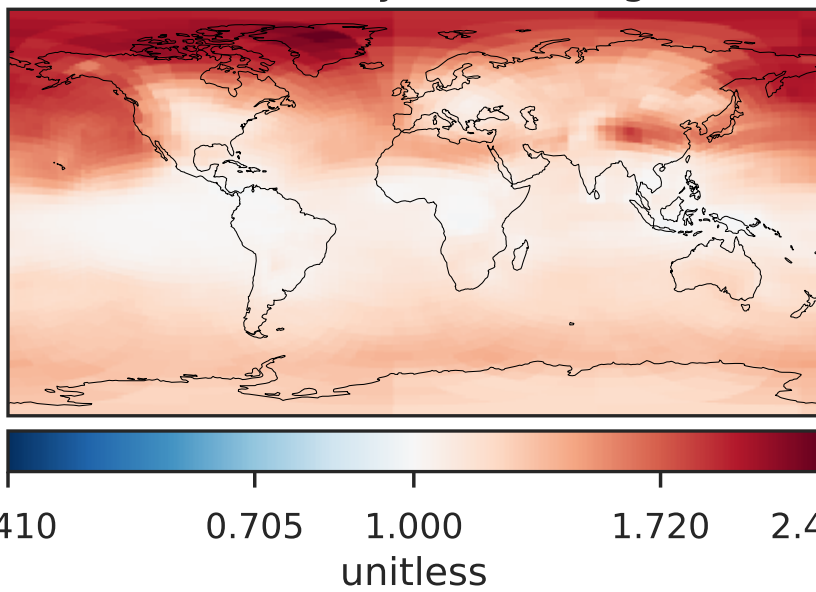
Difference (1x1.25)
Dev - Ref, Dynamic Range



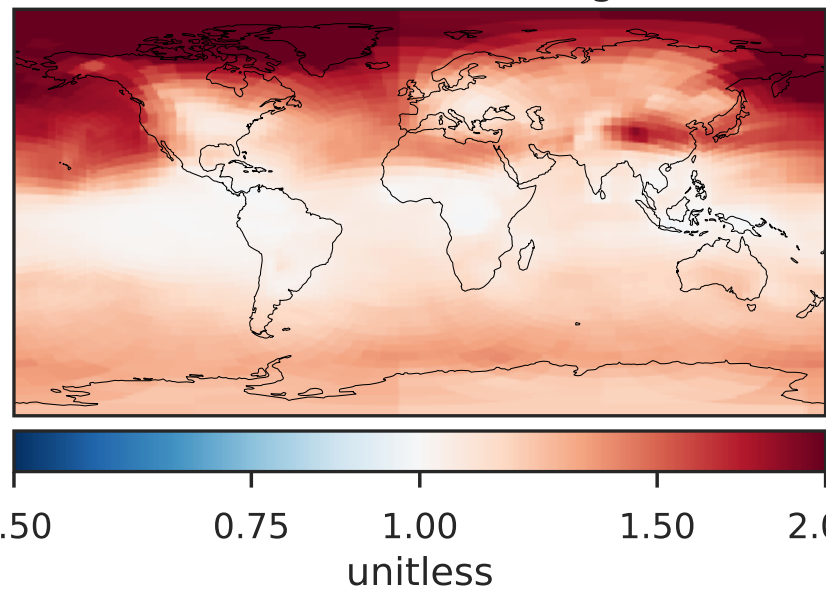
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

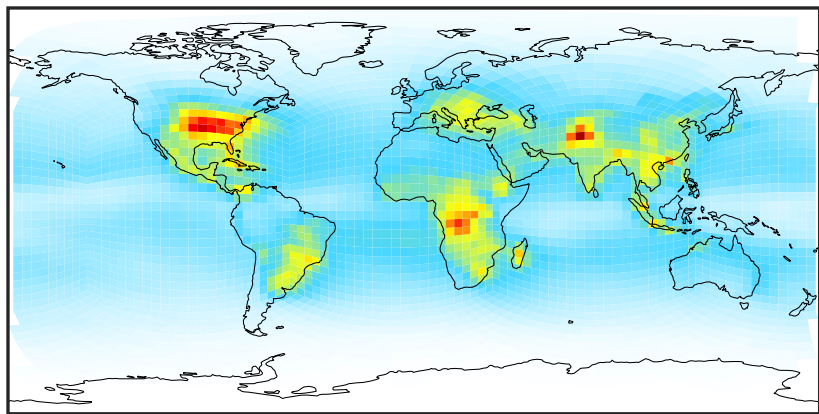


Ratio (1x1.25)
Dev/Ref, Fixed Range



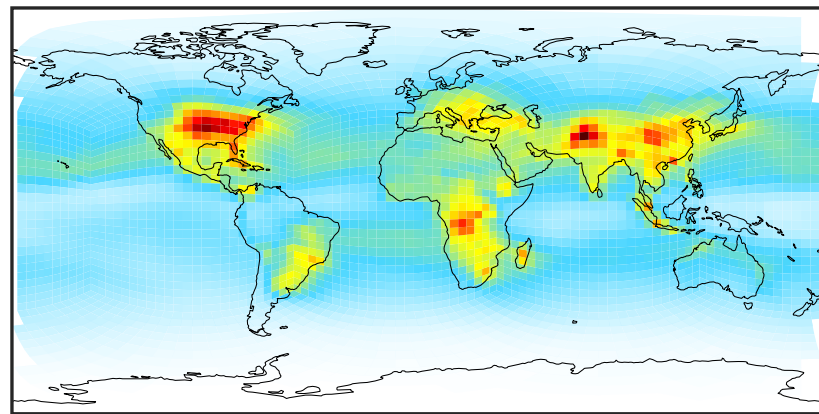
SpeciesConcVW_NO2 (AnnualMean)

GCHP_14.0.0 (Ref)
c24



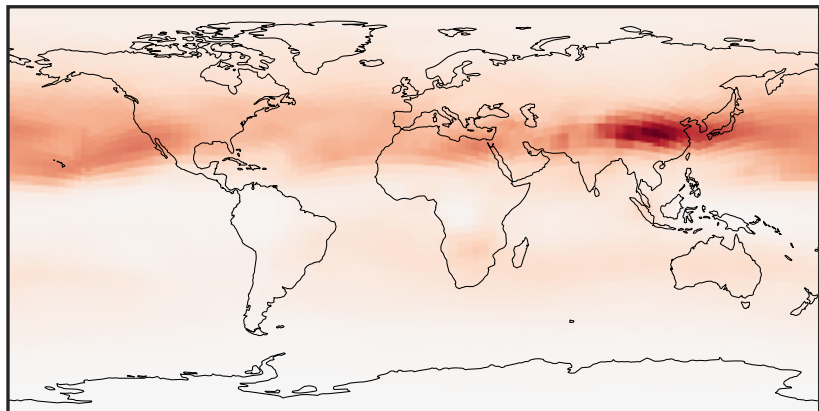
0.0010 0.0265 0.0531 0.0796 0.1072
ppb

GCHP_14.2.0 (Dev)
c24



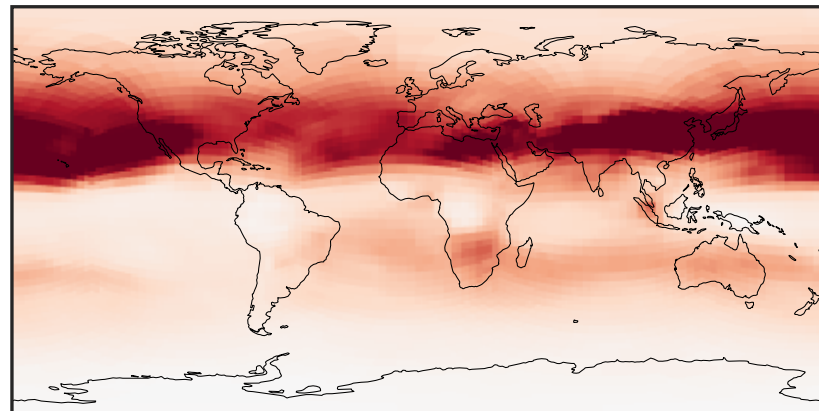
0.0010 0.0265 0.0531 0.0796 0.1072
ppb

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



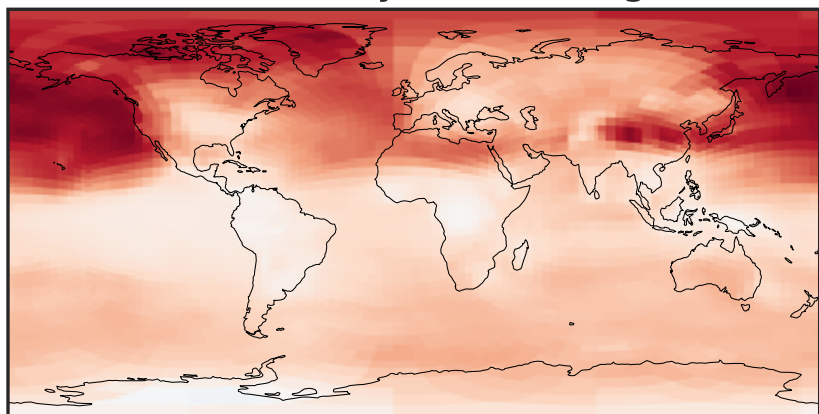
-0.02 0.00 0.02
ppb

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



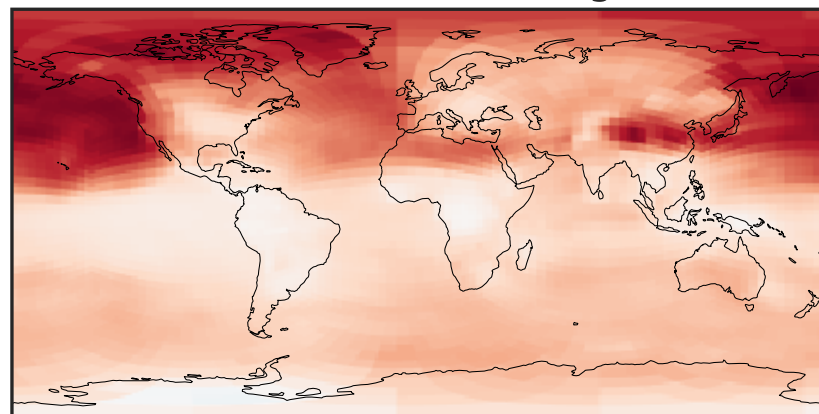
-0.008 0.000 0.008
ppb

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



0.499 0.749 1.000 1.503 2.006
unitless

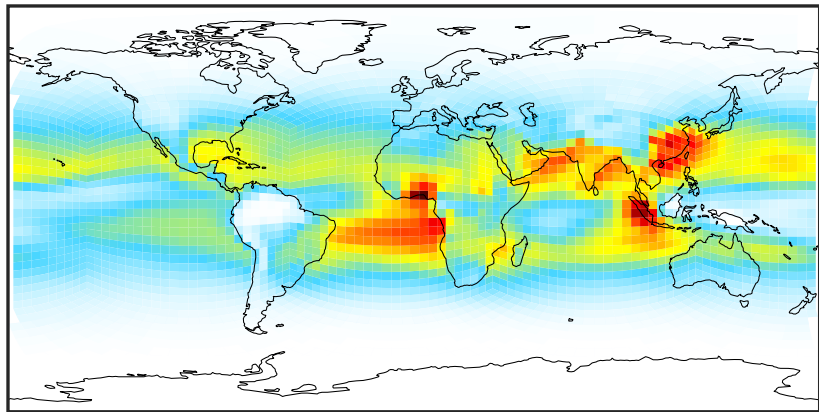
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

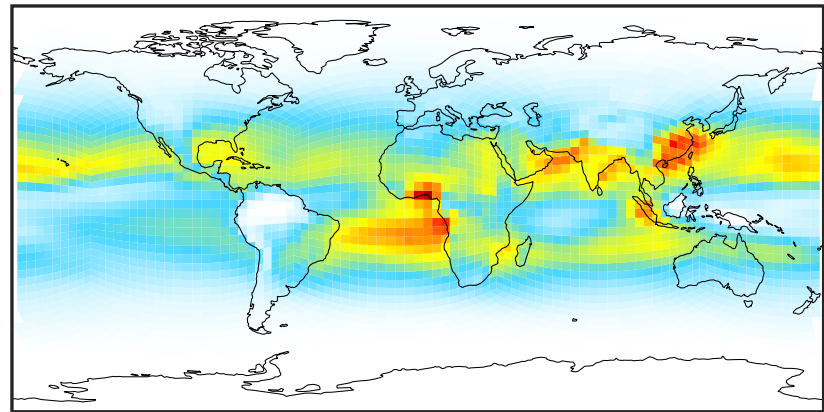
SpeciesConcVW_NO3 (AnnualMean)

GCHP_14.0.0 (Ref)
c24



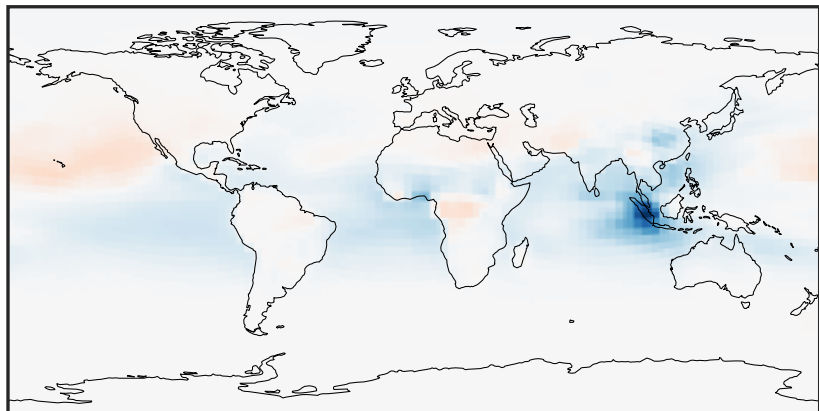
0.0015 0.0030
ppb

GCHP_14.2.0 (Dev)
c24



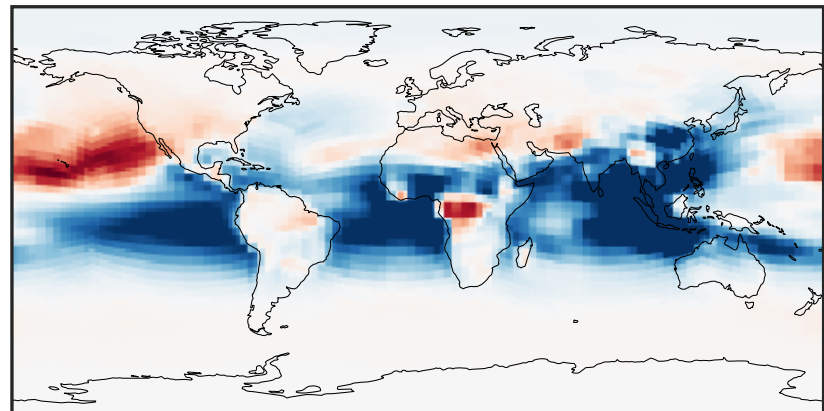
0.0015 0.0030
ppb

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



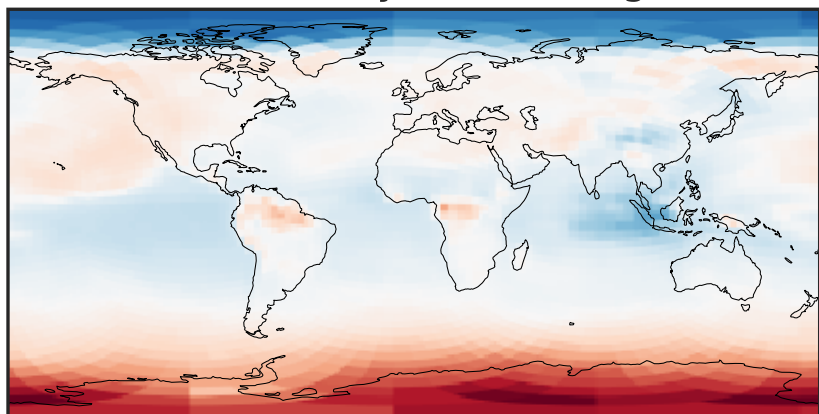
-0.0008 0.0000 0.0008
ppb

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



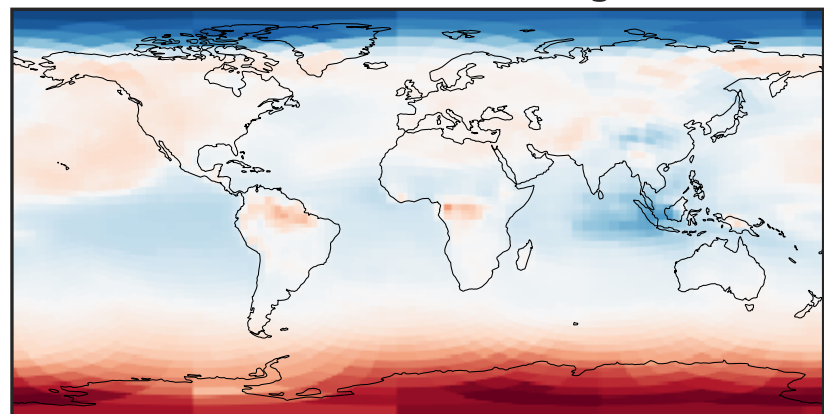
-0.00015 0.00000 0.00015
ppb

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



0.470 0.735 1.000 1.565 2.130
unitless

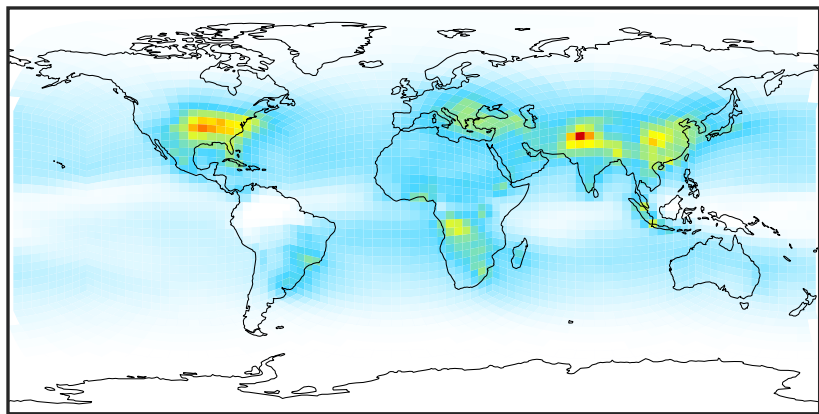
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

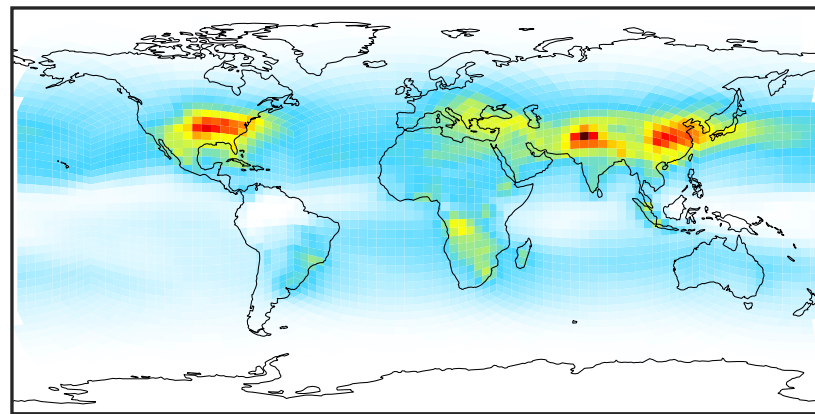
SpeciesConcVV_N2O5 (AnnualMean)

GCHP_14.0.0 (Ref)
c24



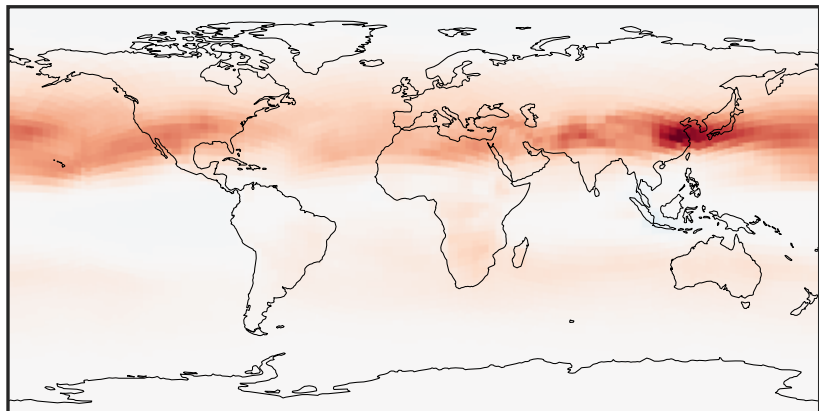
0.004 0.008 0.012
ppb

GCHP_14.2.0 (Dev)
c24



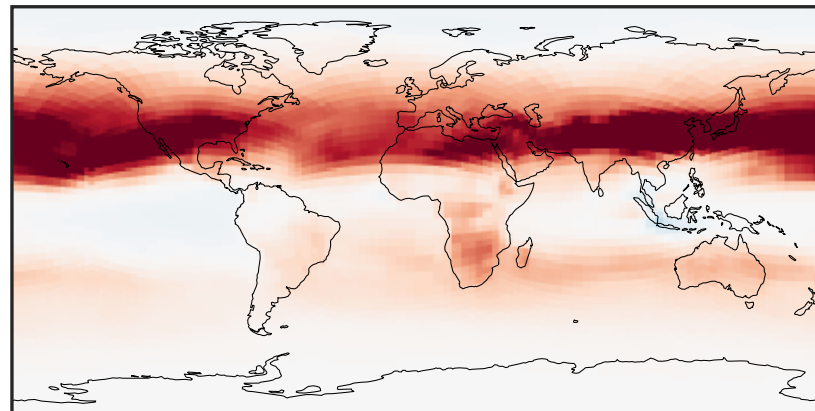
0.004 0.008 0.012
ppb

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



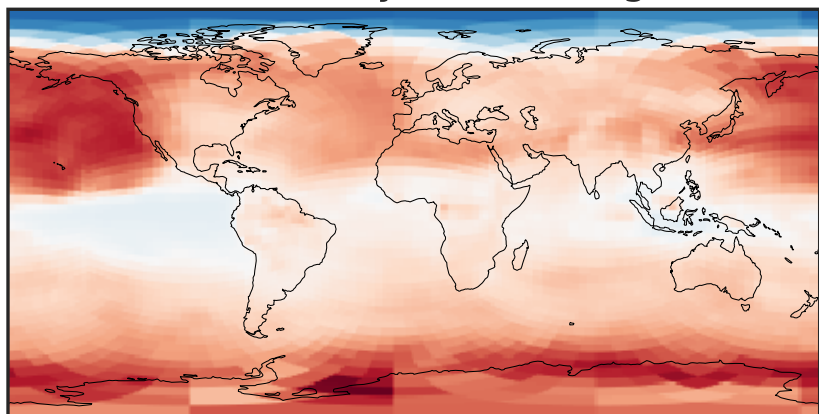
-0.002 0.000 0.002
ppb

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



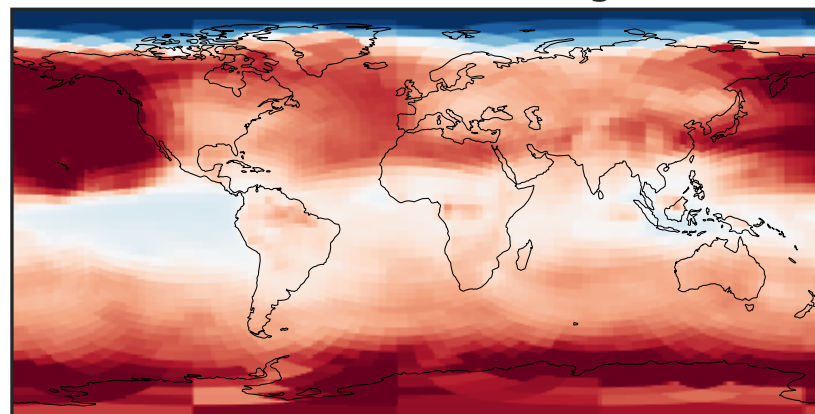
-0.0008 0.0000 0.0008
ppb

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



0.350 0.675 1.000 1.927 2.853
unitless

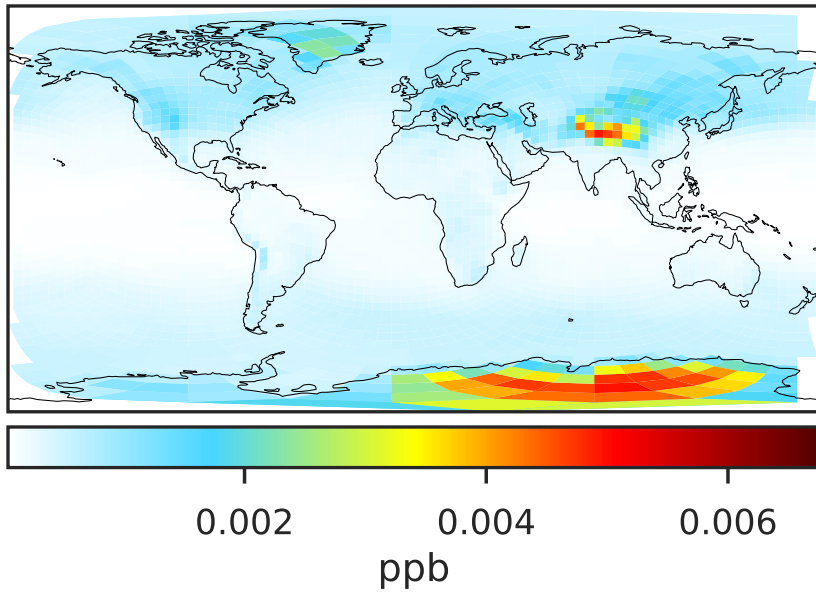
Ratio (1x1.25)
Dev/Ref, Fixed Range



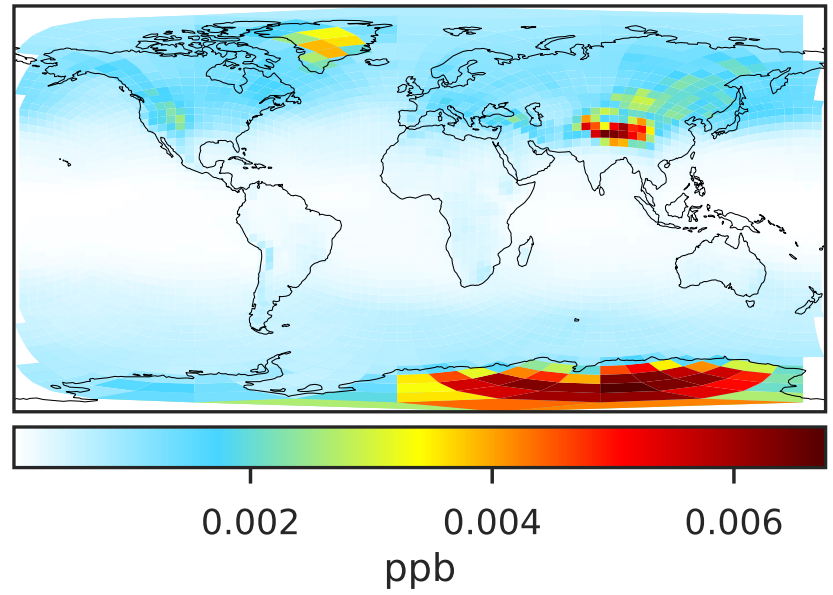
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_MPN (AnnualMean)

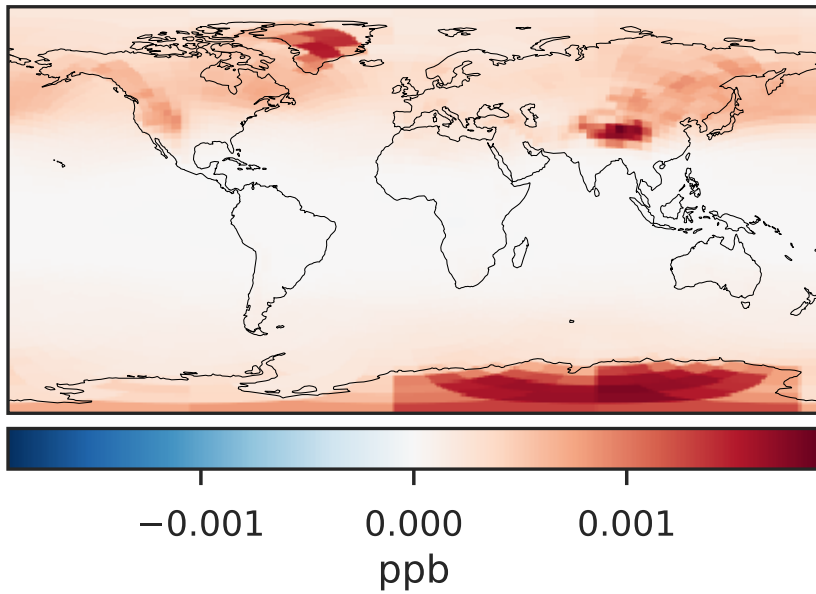
GCHP_14.0.0 (Ref)
c24



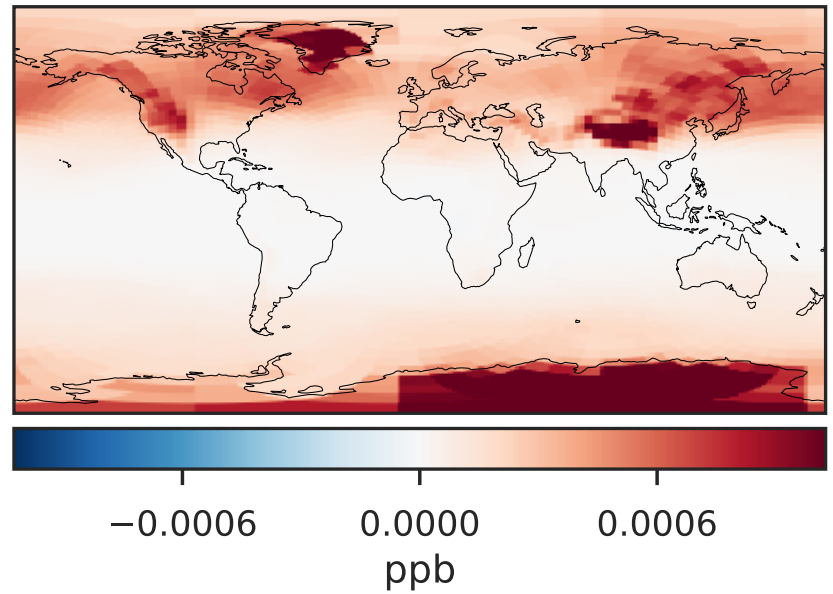
GCHP_14.2.0 (Dev)
c24



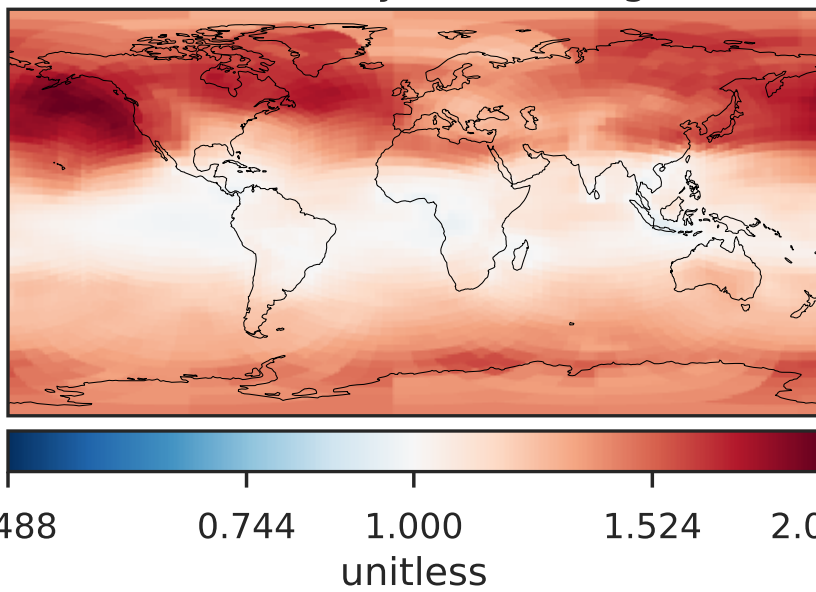
Difference (1x1.25)
Dev - Ref, Dynamic Range



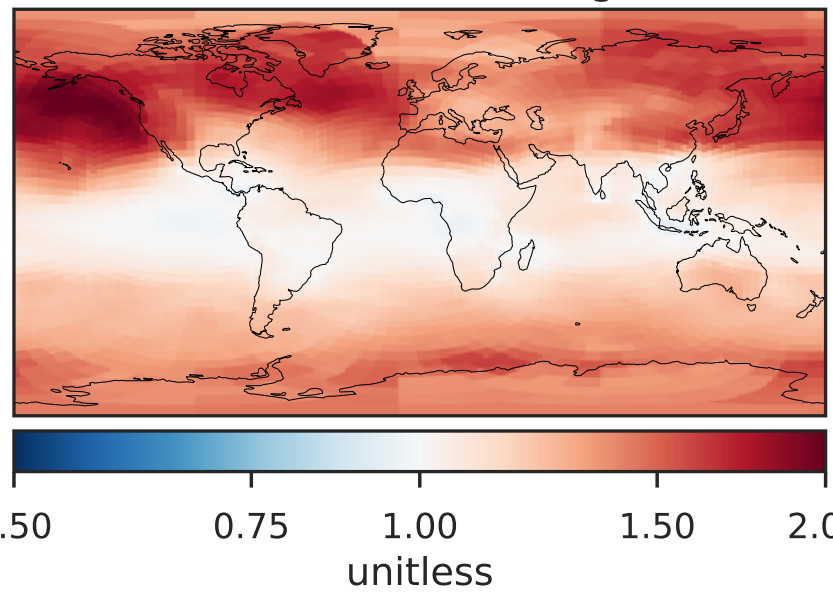
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

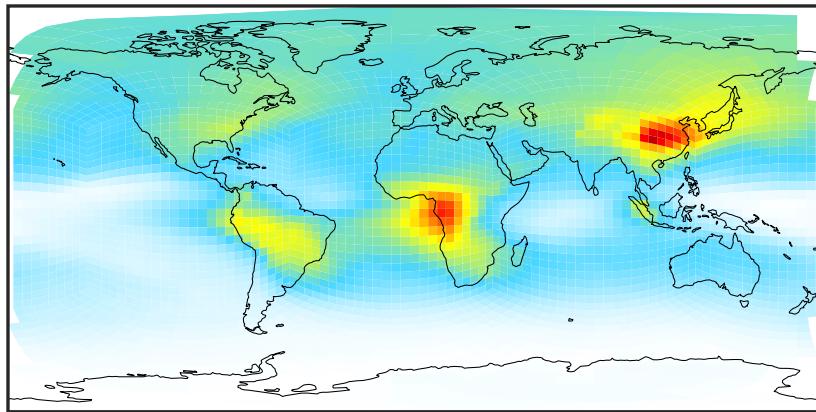


Ratio (1x1.25)
Dev/Ref, Fixed Range



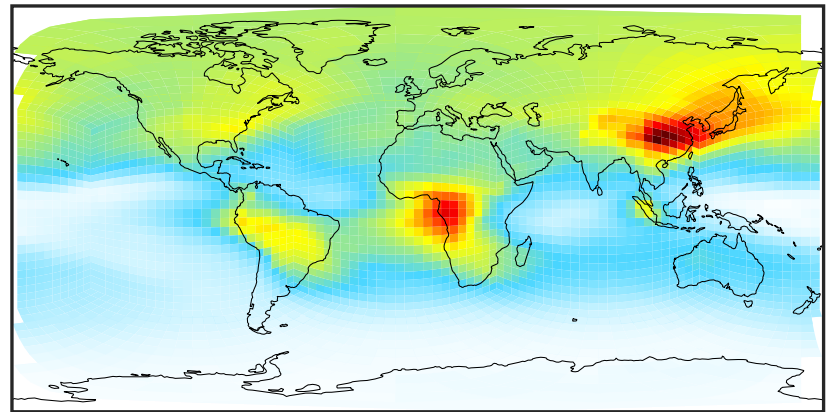
SpeciesConcVV_PAN (AnnualMean)

GCHP_14.0.0 (Ref)
c24



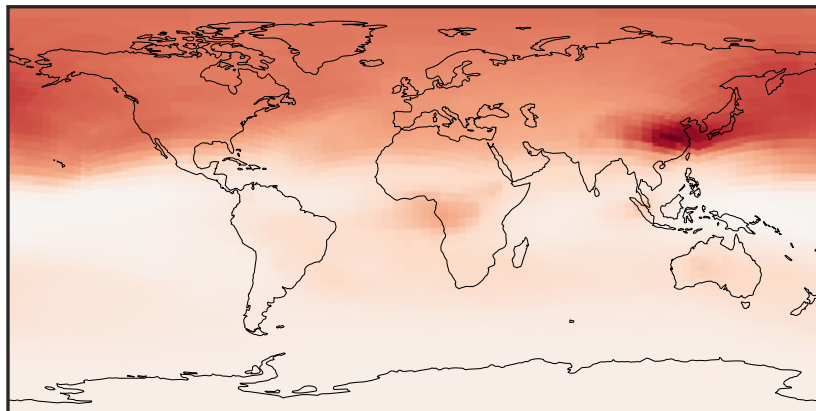
0.0163 0.1069 0.2137 0.3206 0.4438
ppb

GCHP_14.2.0 (Dev)
c24



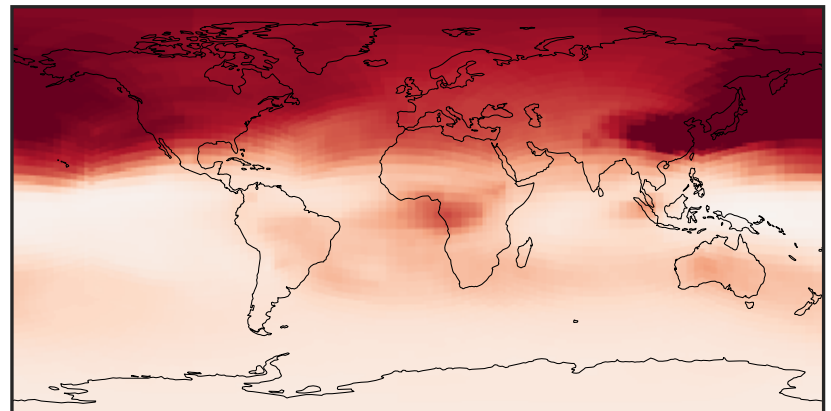
0.0163 0.1069 0.2137 0.3206 0.4438
ppb

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



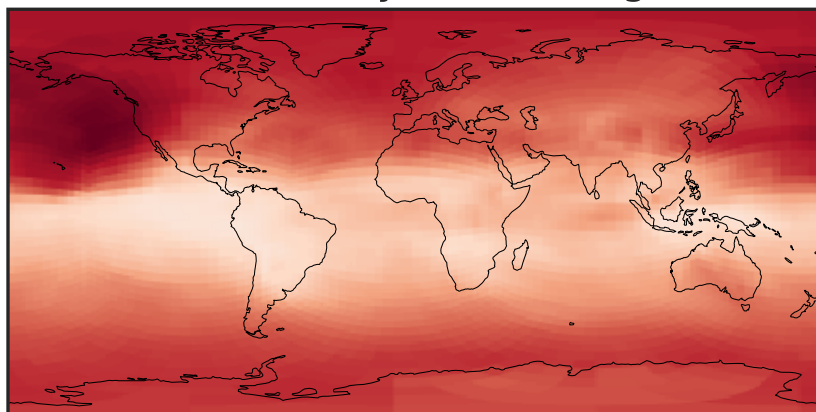
-0.0772 -0.0386 0.0000 0.0386 0.0772
ppb

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



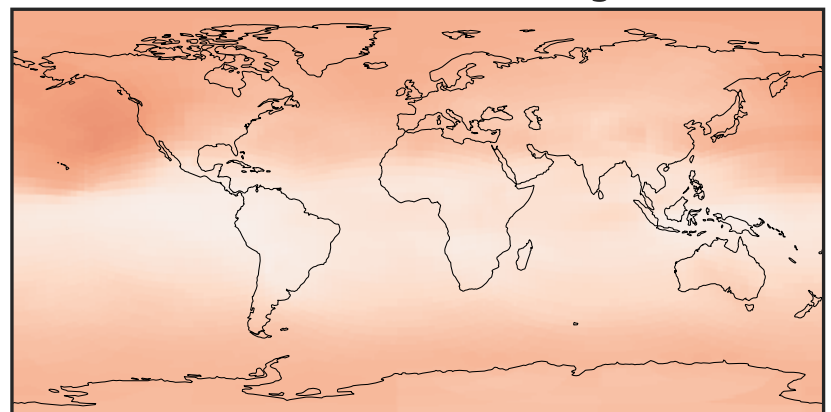
-0.025 0.000 0.025
ppb

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



0.7323 0.8662 1.0000 1.1827 1.3655
unitless

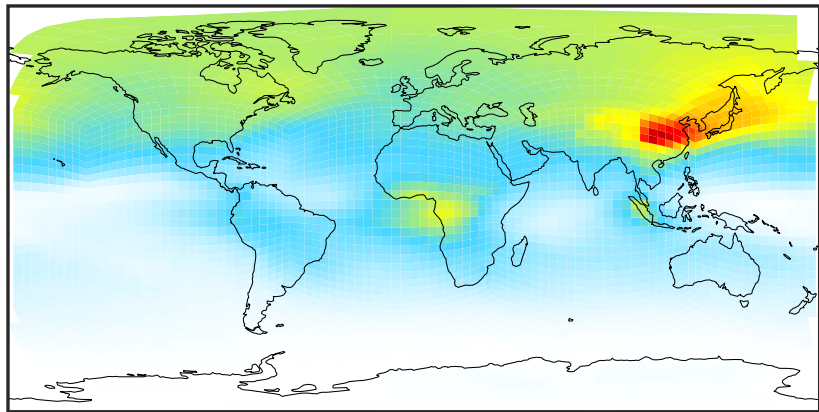
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

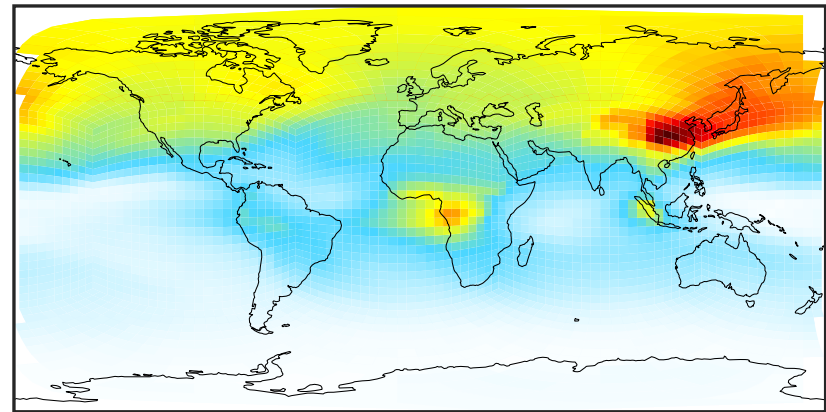
SpeciesConcVV_PPN (AnnualMean)

GCHP_14.0.0 (Ref)
c24



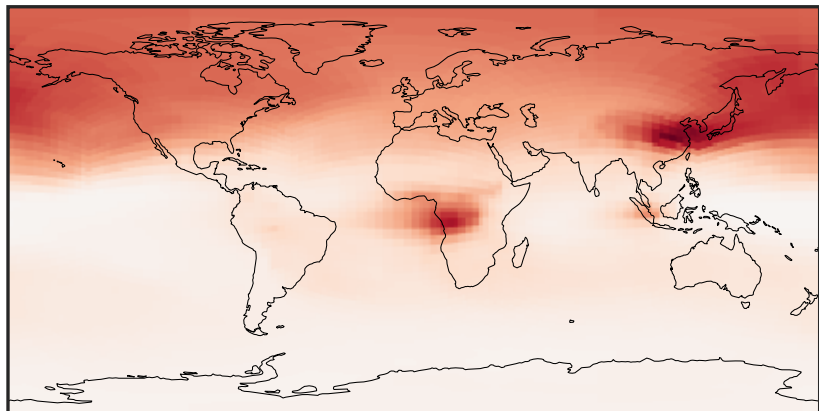
0.02 0.04 0.06 0.08
ppb

GCHP_14.2.0 (Dev)
c24



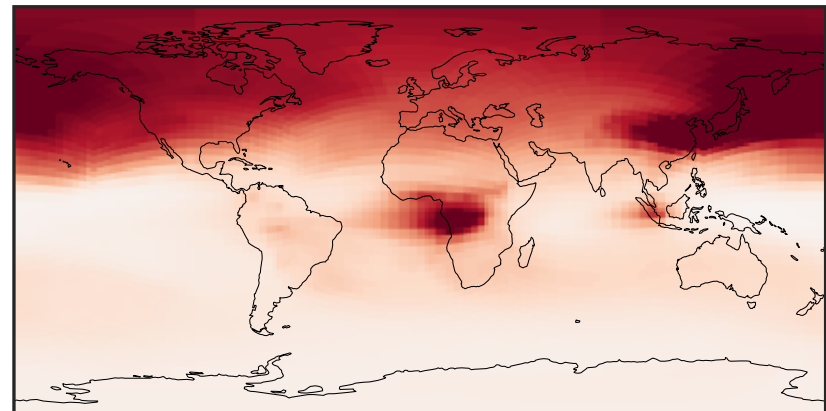
0.02 0.04 0.06 0.08
ppb

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



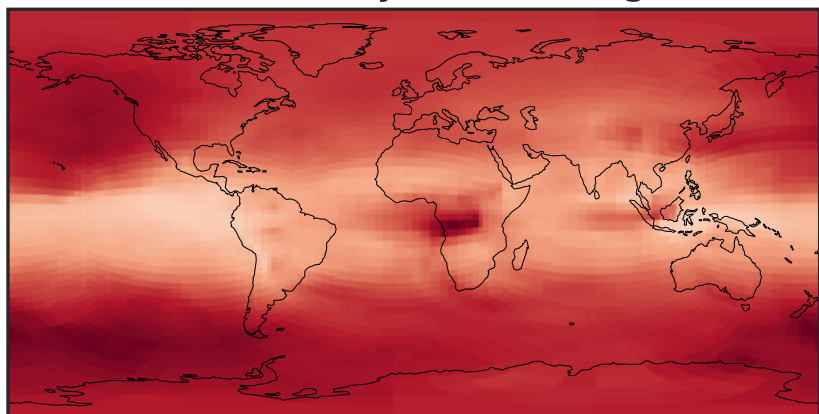
-0.008 0.000 0.008
ppb

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



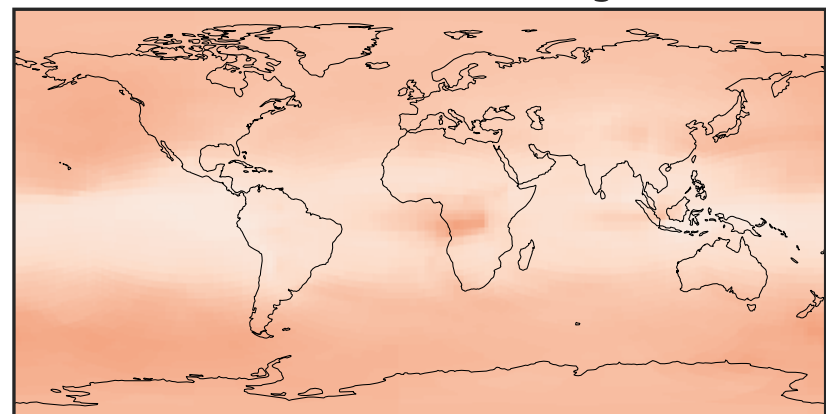
-0.005 0.000 0.005
ppb

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



0.7562 0.8781 1.000 1.1612 1.3224
unitless

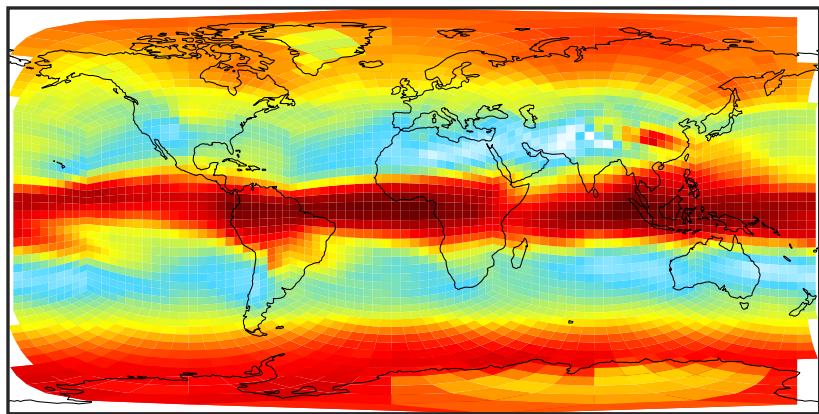
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVW_N2O (AnnualMean)

GCHP_14.0.0 (Ref)
c24

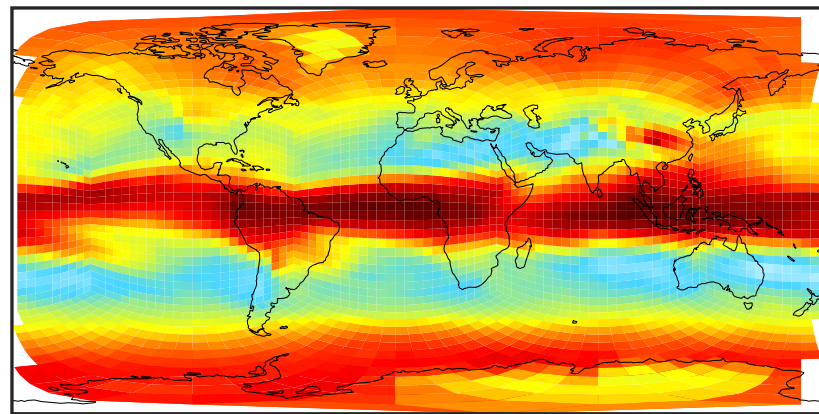


0.8

320.0

ppb

GCHP_14.2.0 (Dev)
c24

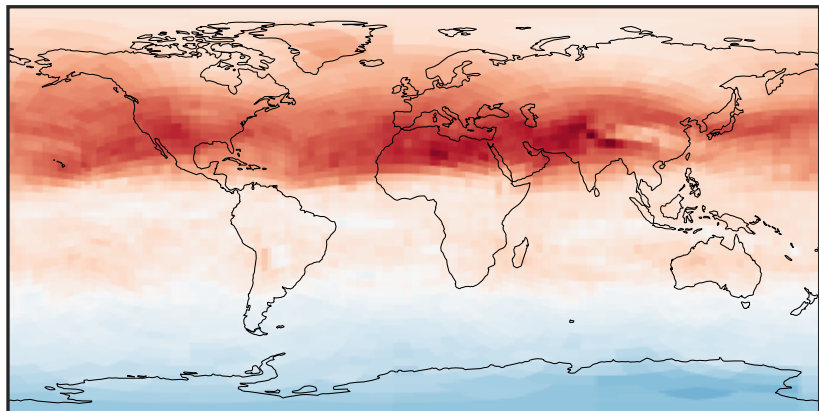


0.8

320.0

ppb

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



-0.0784

-0.0392

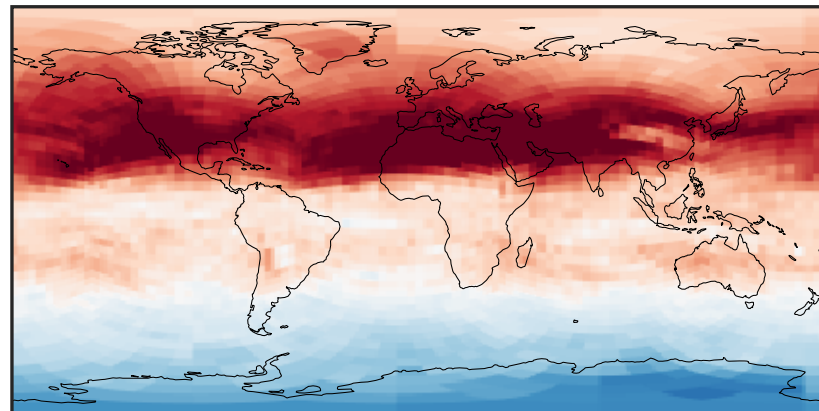
0.0000

0.0392

0.0784

ppb

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



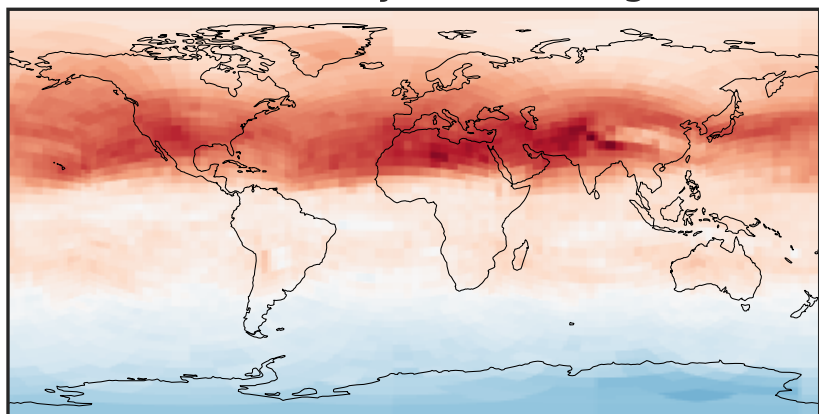
-0.025

0.000

0.025

ppb

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



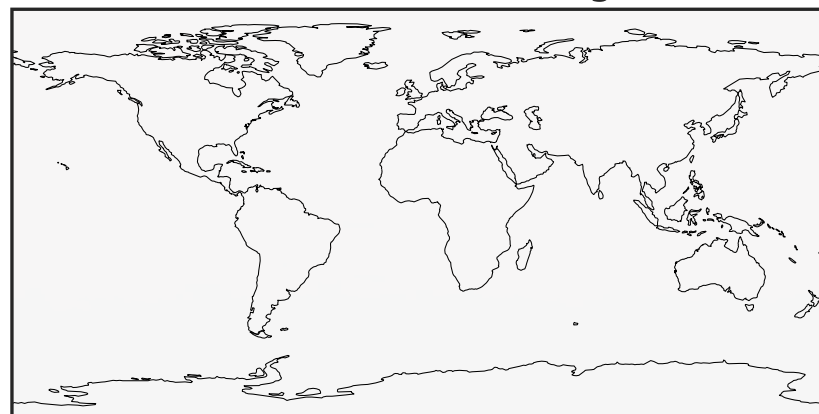
0.999762

1.000000

1.000238

unitless

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



0.50

0.75

1.00

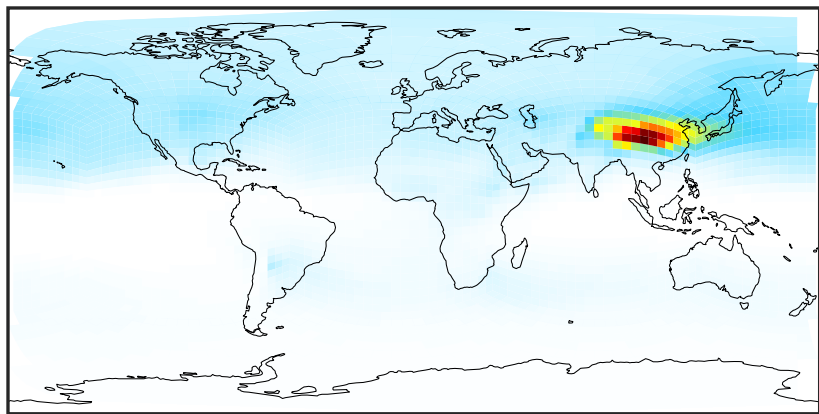
1.50

2.00

unitless

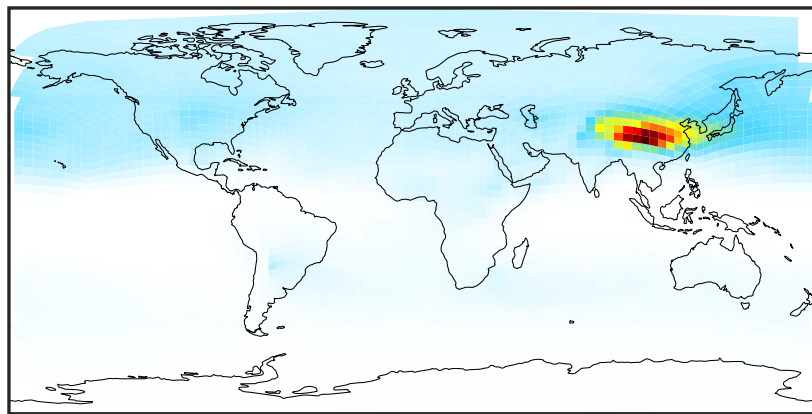
SpeciesConcVV_NHx (AnnualMean)

GCHP_14.0.0 (Ref)
c24



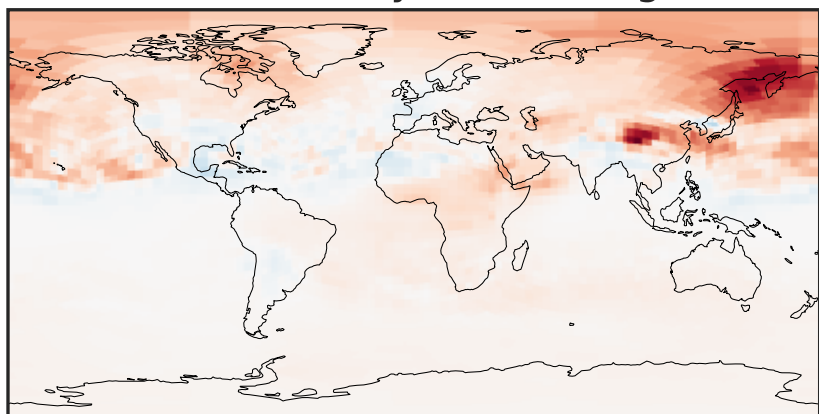
0.001 0.414 0.828 1.242 1.657
ppb

GCHP_14.2.0 (Dev)
c24



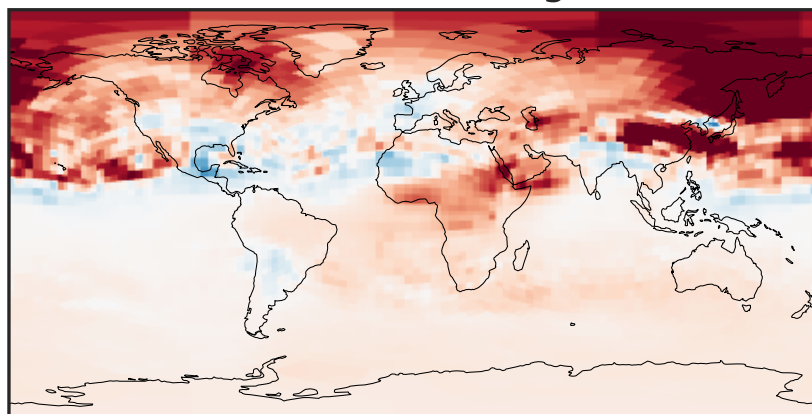
0.001 0.414 0.828 1.242 1.657
ppb

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



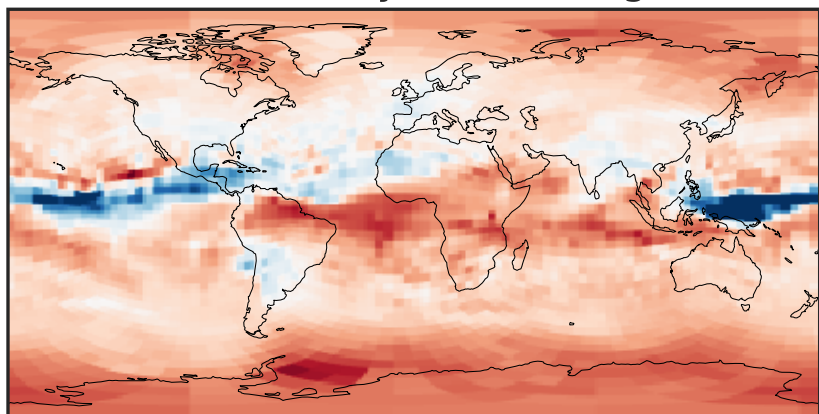
-0.004 0.000 0.004
ppb

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



-0.0015 0.0000 0.0015
ppb

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



0.96598 0.98299 1.00000 1.01761 1.03521
unitless

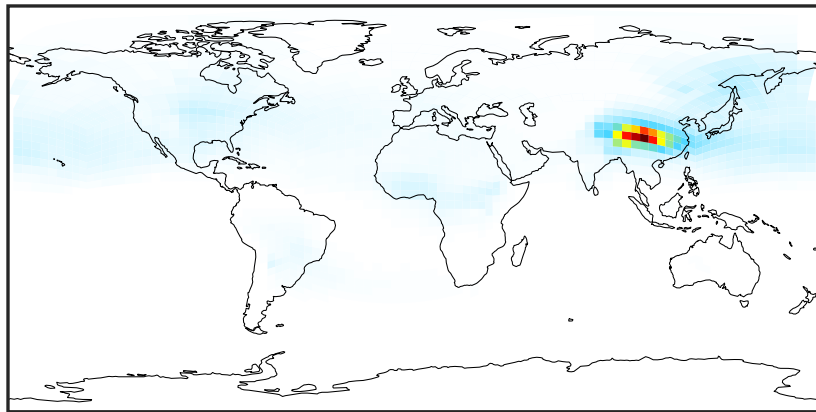
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

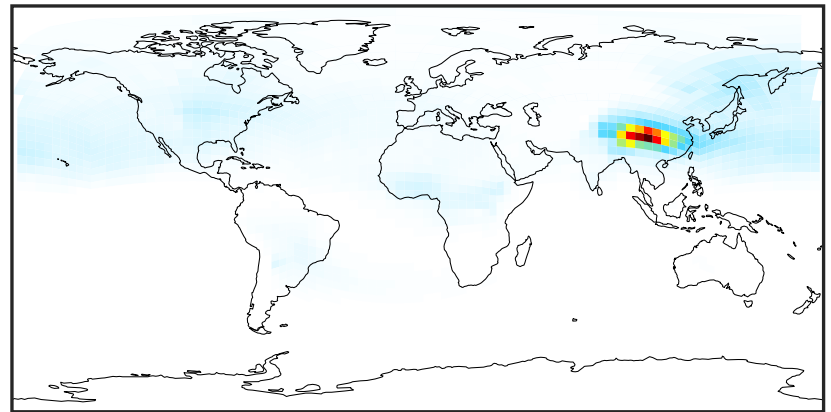
SpeciesConcVV_NH3 (AnnualMean)

GCHP_14.0.0 (Ref)
c24



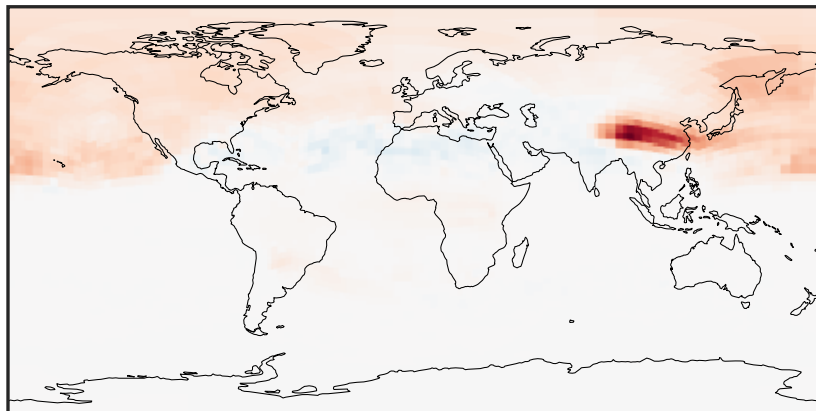
0.0000 0.2333 0.4665 0.6998 0.9330
ppb

GCHP_14.2.0 (Dev)
c24



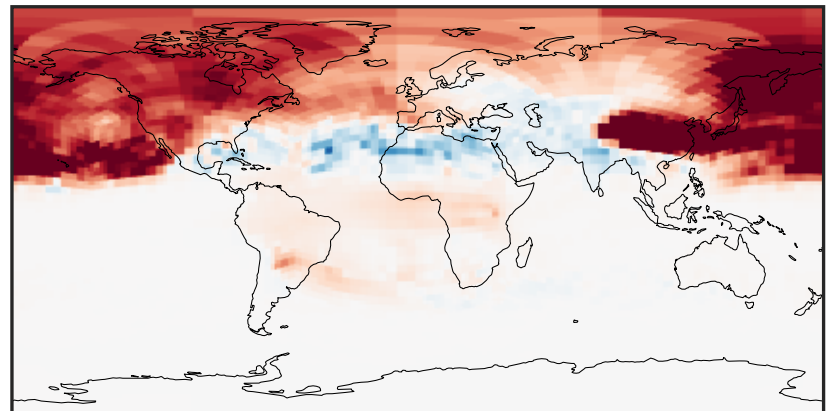
0.0000 0.2333 0.4665 0.6998 0.9330
ppb

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



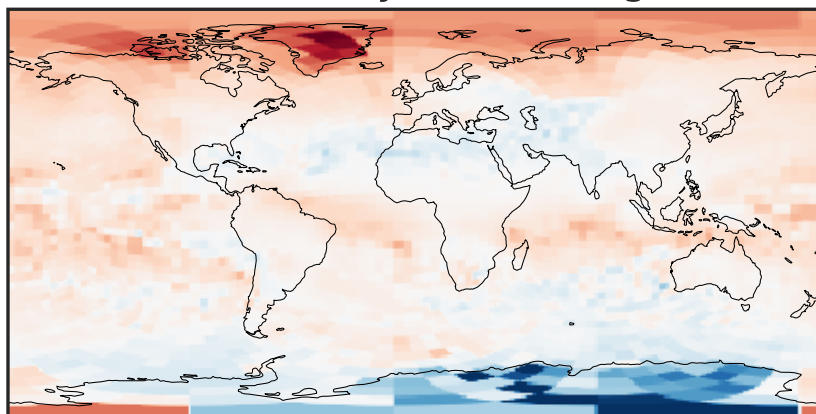
-0.015 0.000 0.015
ppb

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



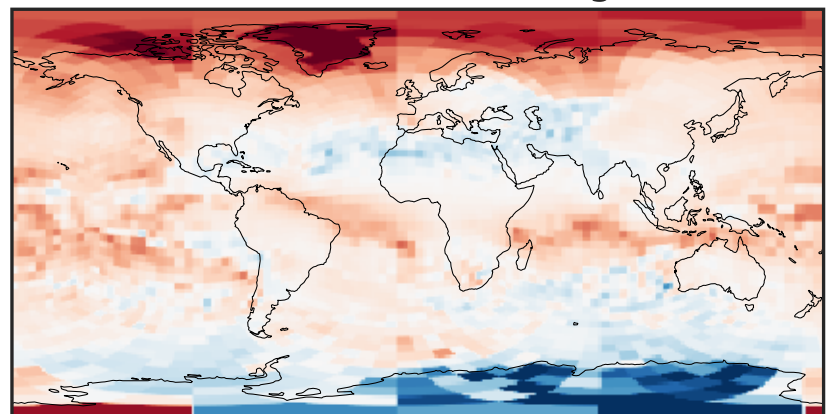
-0.003 0.000 0.003
ppb

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



0.326 0.663 1.000 2.034 3.069
unitless

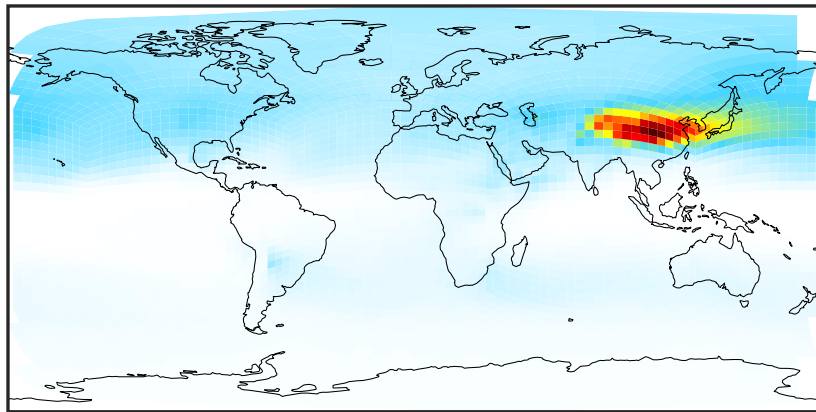
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

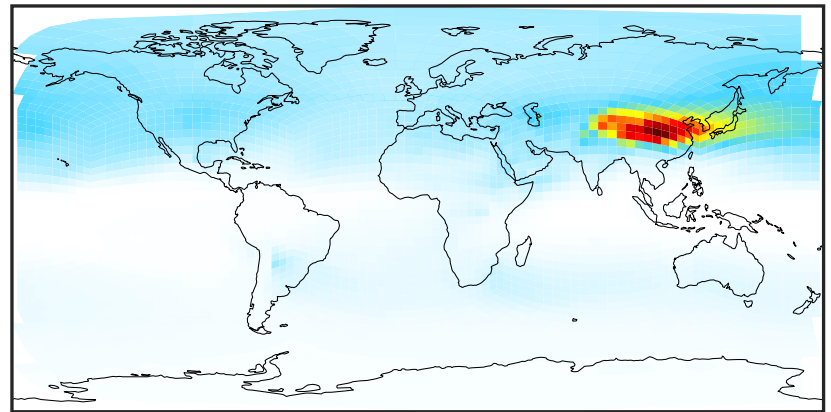
SpeciesConcVV_NH4 (AnnualMean)

GCHP_14.0.0 (Ref)
c24



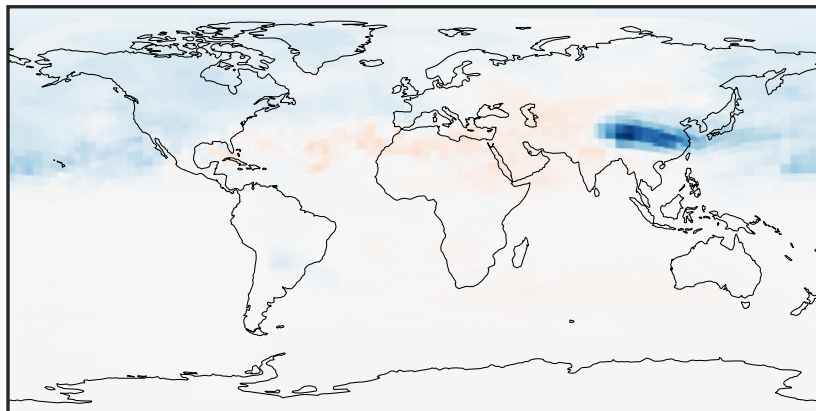
0.0010 0.2392 0.4785 0.7177 0.9580
ppb

GCHP_14.2.0 (Dev)
c24



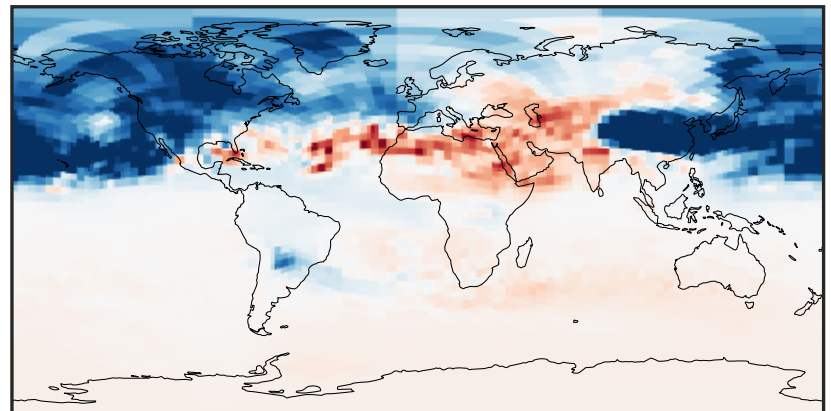
0.0010 0.2392 0.4785 0.7177 0.9580
ppb

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



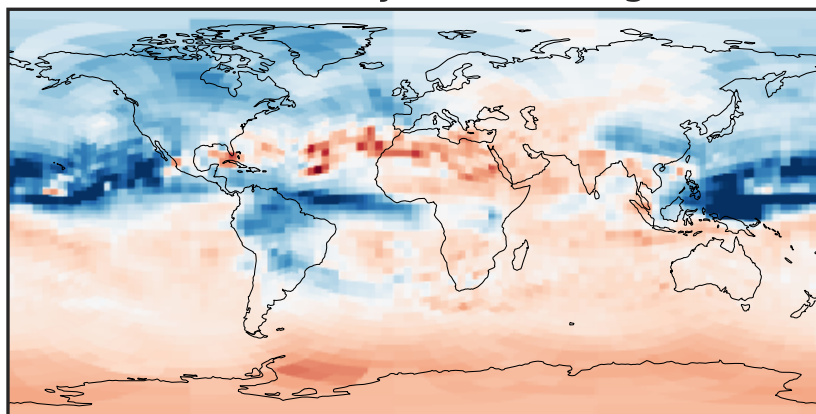
-0.015 0.000 0.015
ppb

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



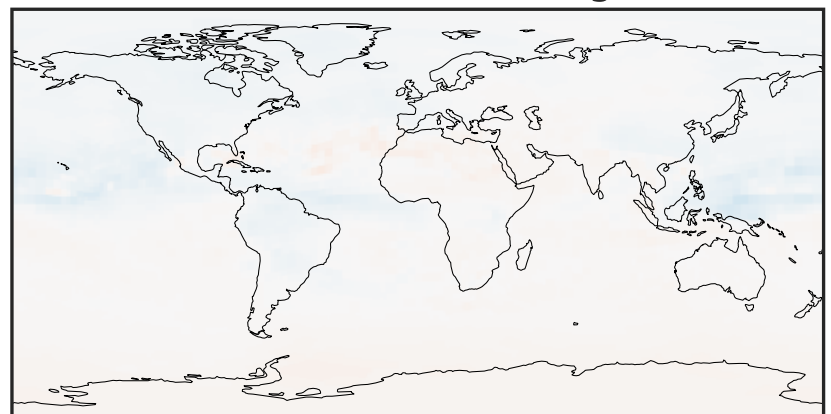
-0.0025 0.0000 0.0025
ppb

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



0.9429 0.9714 1.0000 1.0303 1.0606
unitless

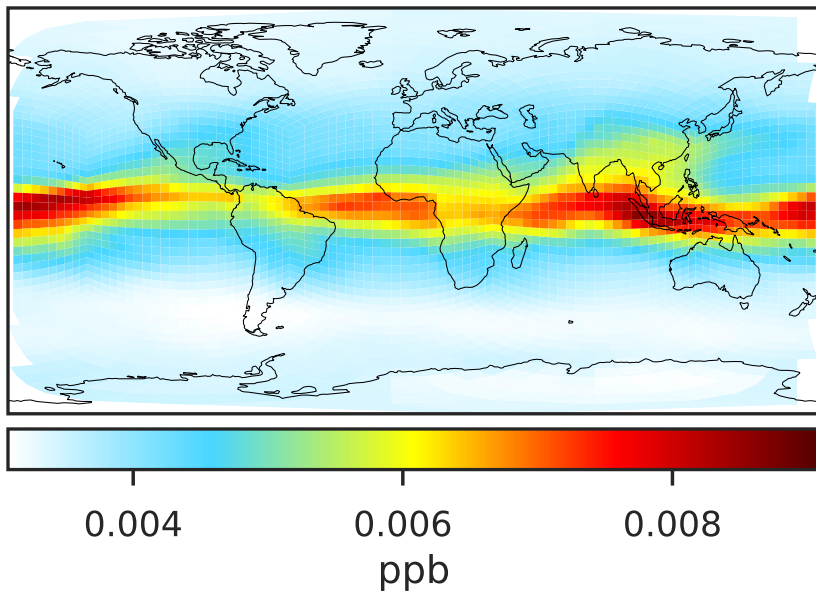
Ratio (1x1.25)
Dev/Ref, Fixed Range



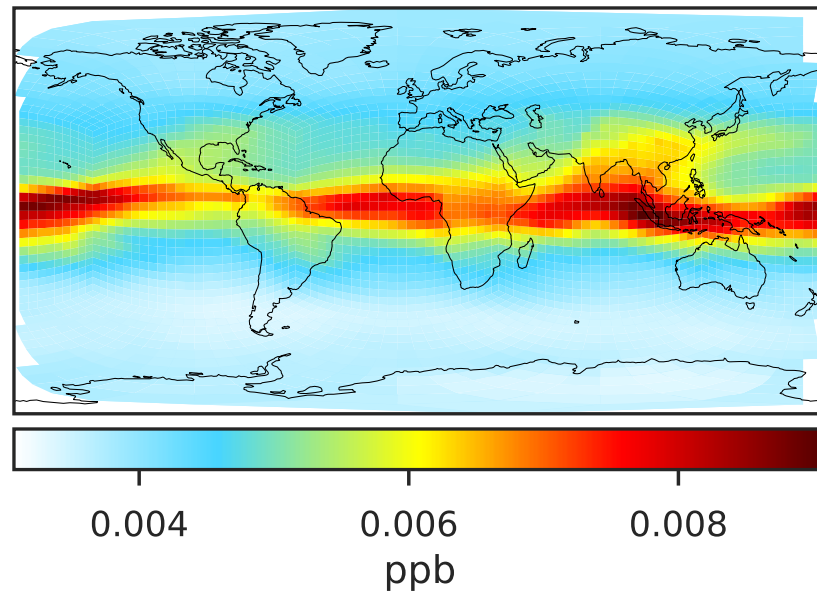
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_MENO3 (AnnualMean)

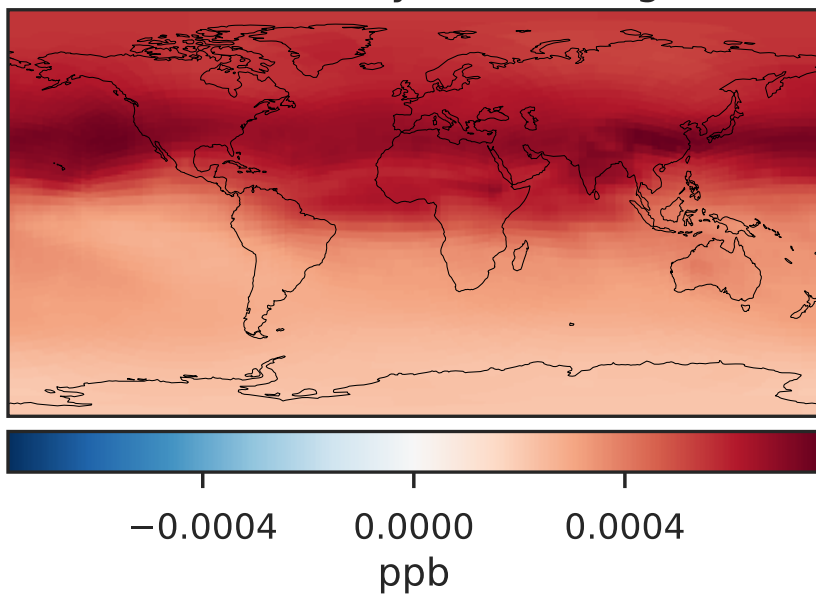
GCHP_14.0.0 (Ref)
c24



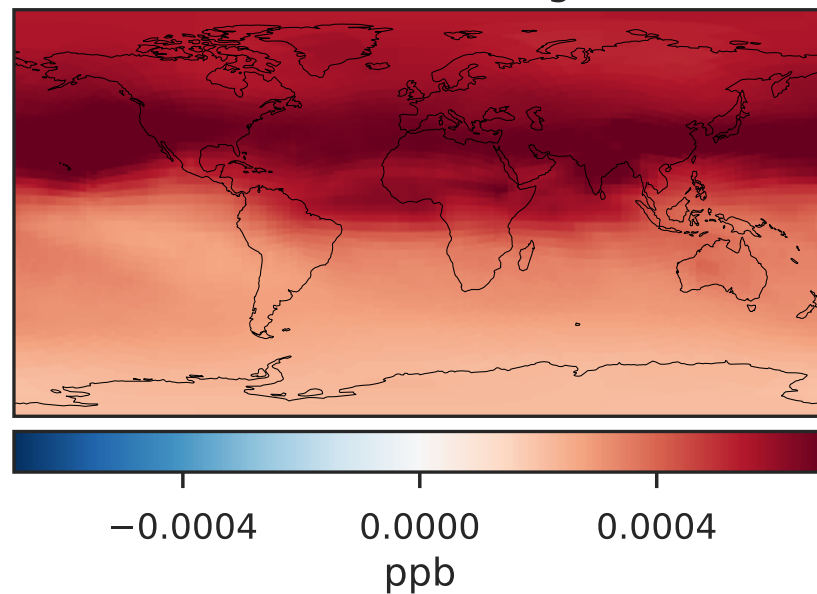
GCHP_14.2.0 (Dev)
c24



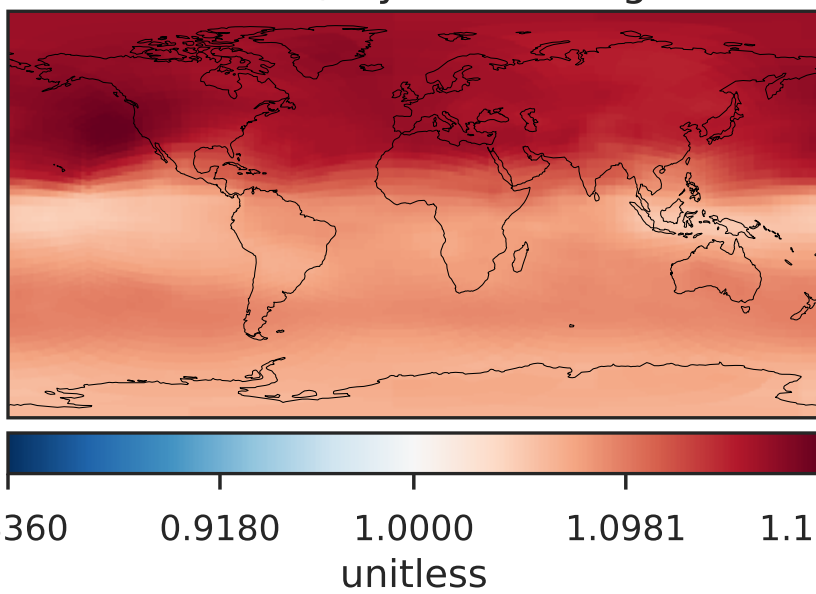
Difference (1x1.25)
Dev - Ref, Dynamic Range



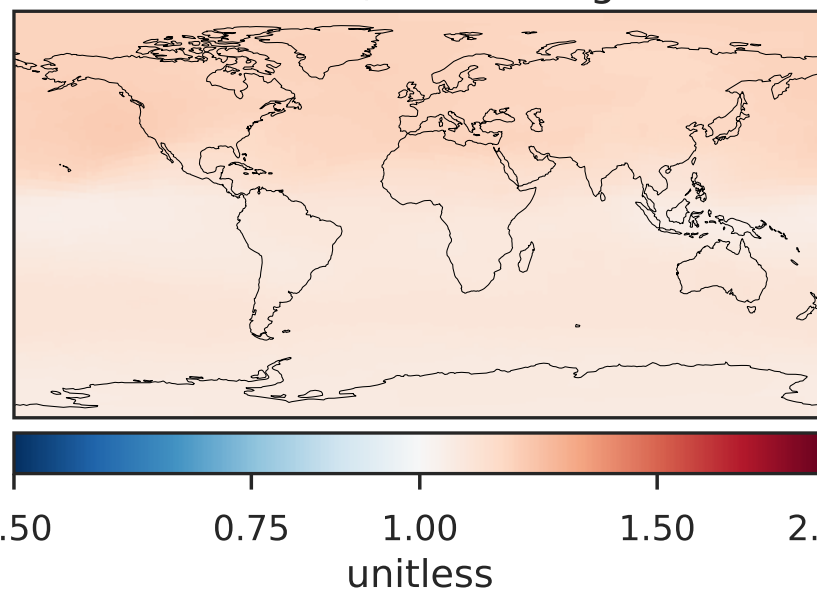
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

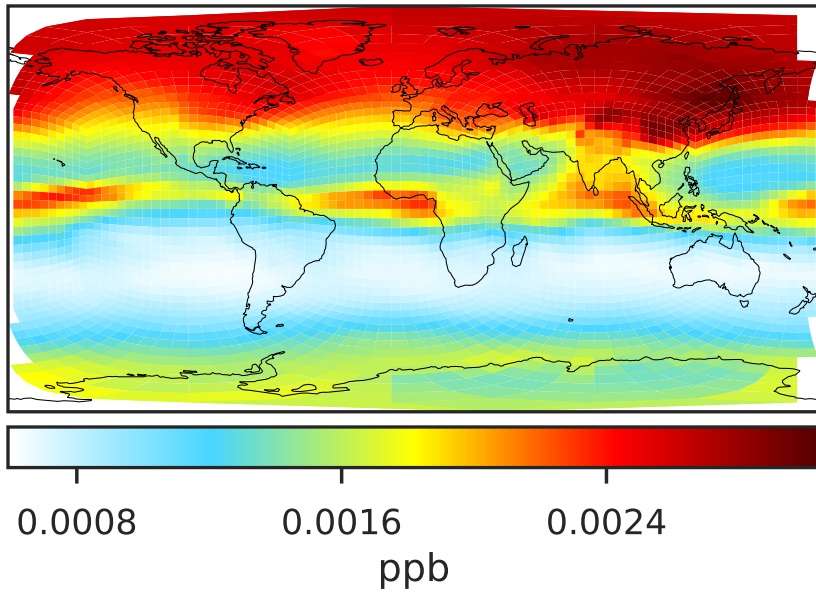


Ratio (1x1.25)
Dev/Ref, Fixed Range

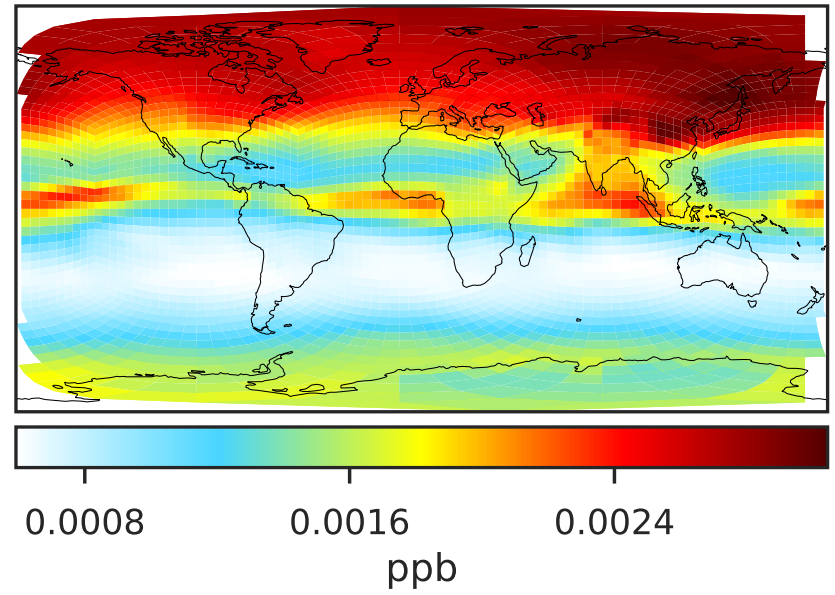


SpeciesConcVV_ETNO3 (AnnualMean)

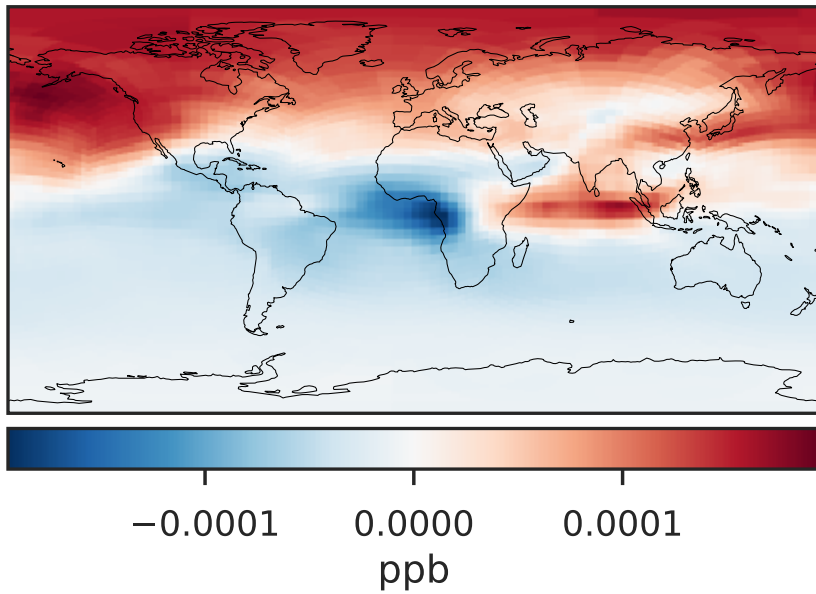
GCHP_14.0.0 (Ref)
c24



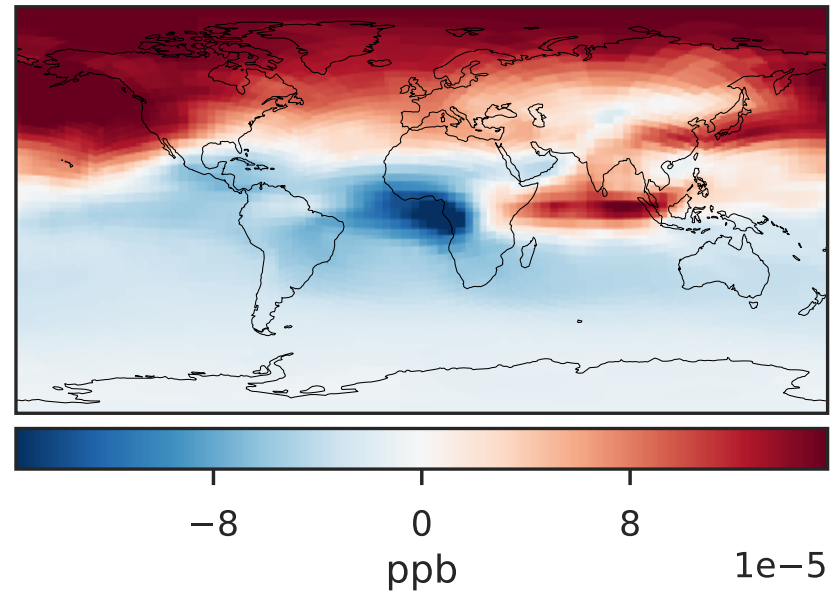
GCHP_14.2.0 (Dev)
c24



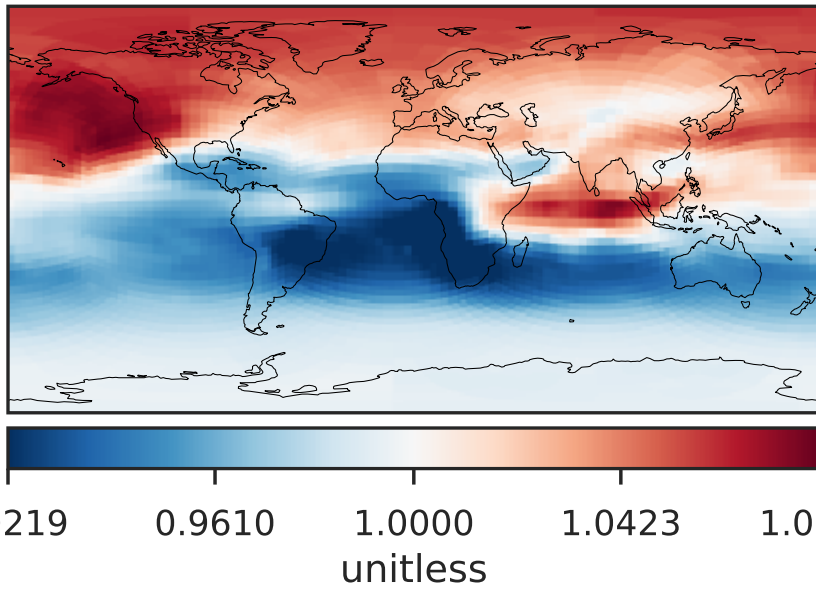
Difference (1x1.25)
Dev - Ref, Dynamic Range



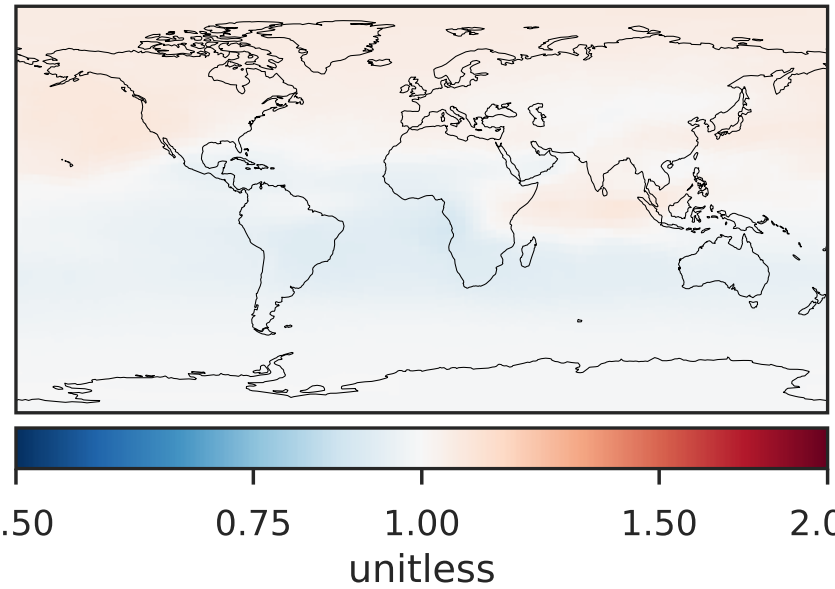
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

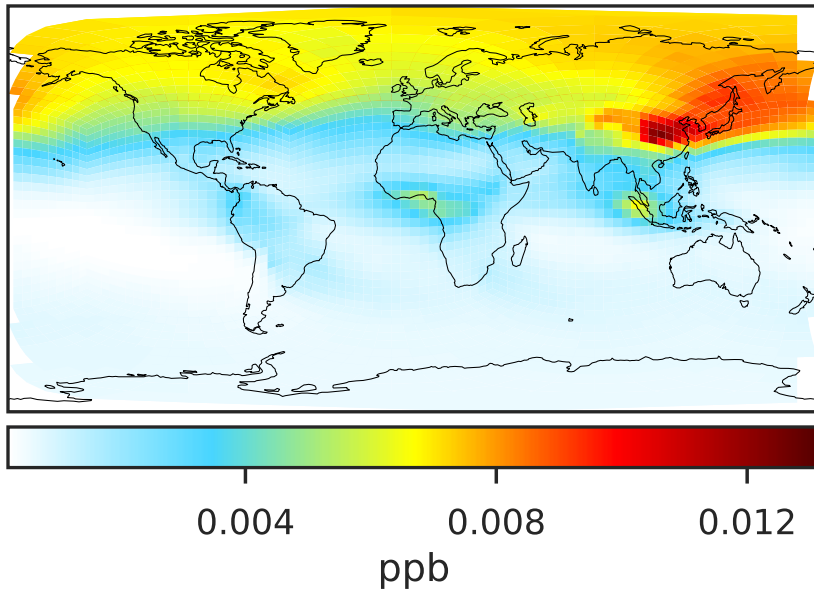


Ratio (1x1.25)
Dev/Ref, Fixed Range

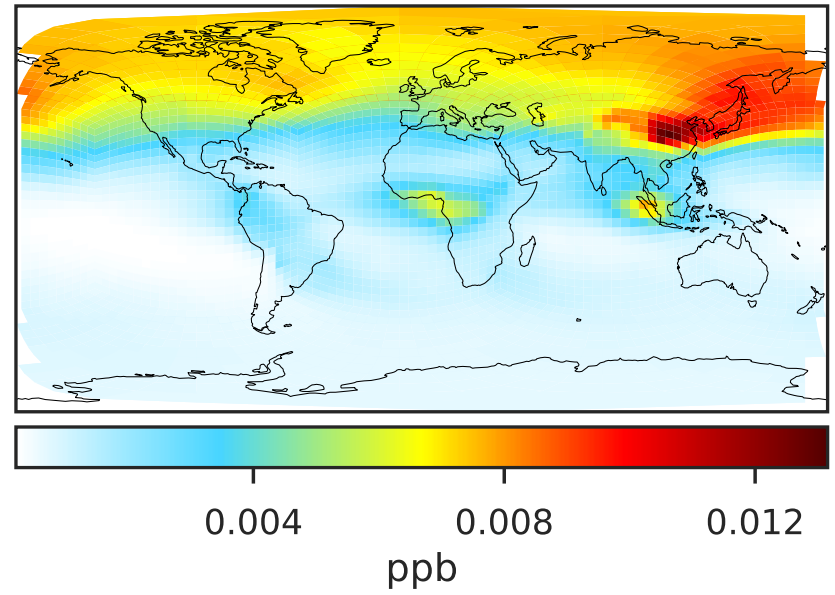


SpeciesConcVV_IPRNO3 (AnnualMean)

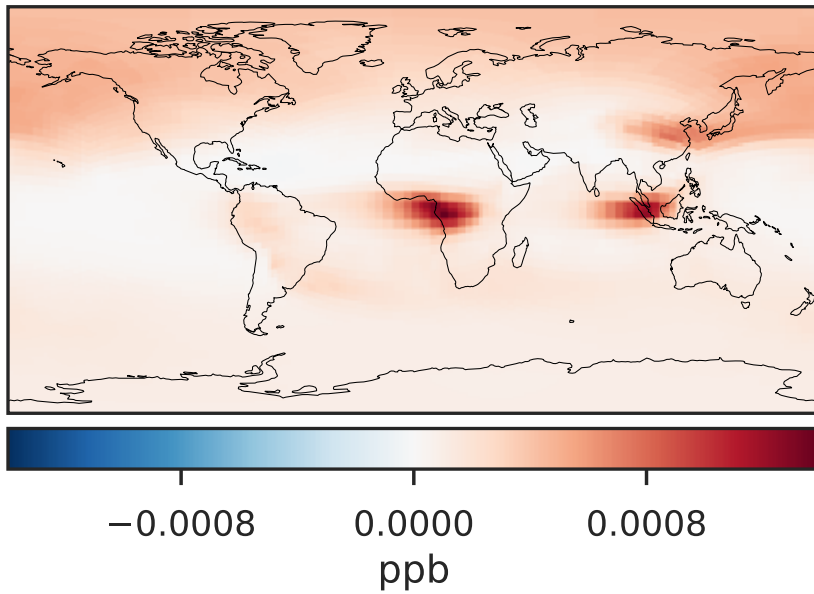
GCHP_14.0.0 (Ref)
c24



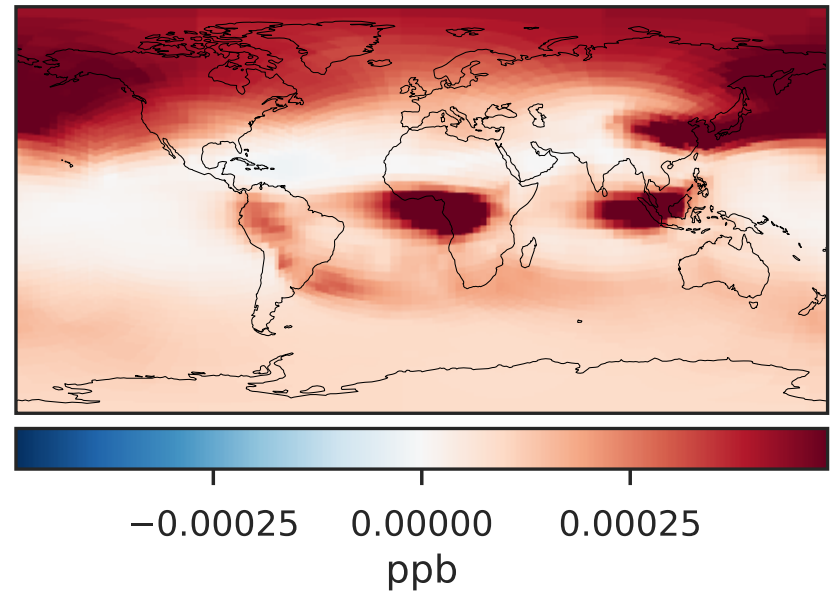
GCHP_14.2.0 (Dev)
c24



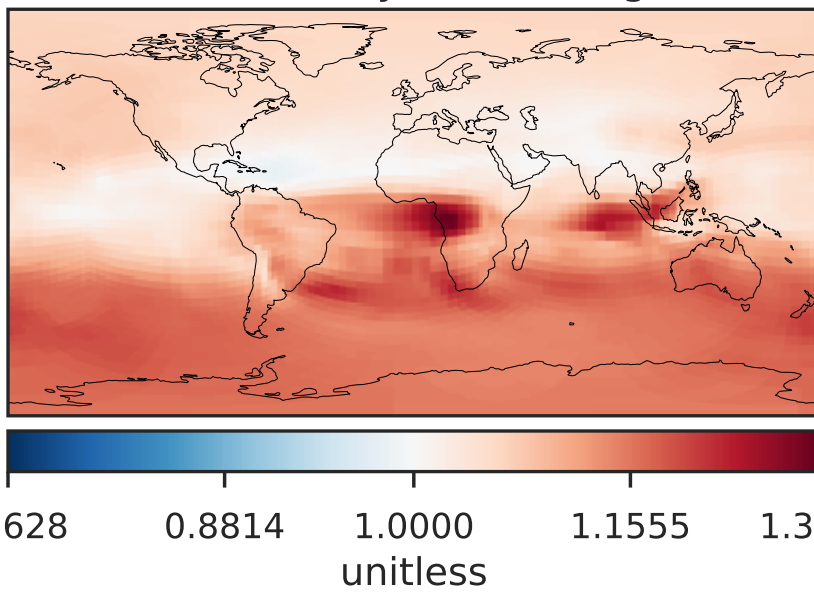
Difference (1x1.25)
Dev - Ref, Dynamic Range



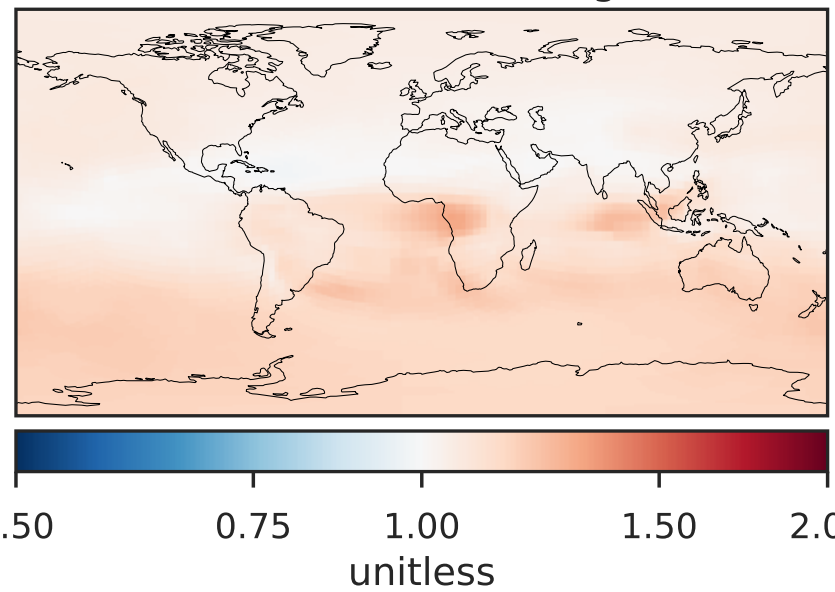
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

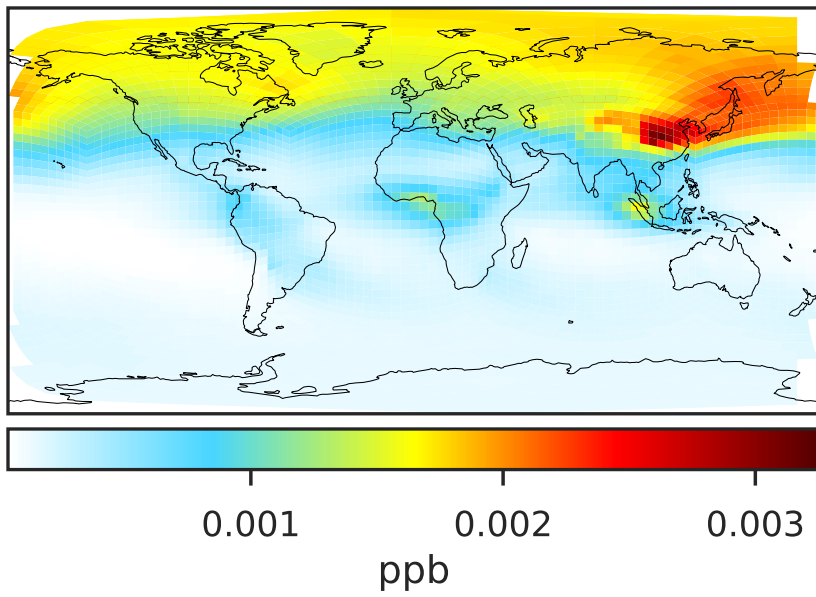


Ratio (1x1.25)
Dev/Ref, Fixed Range

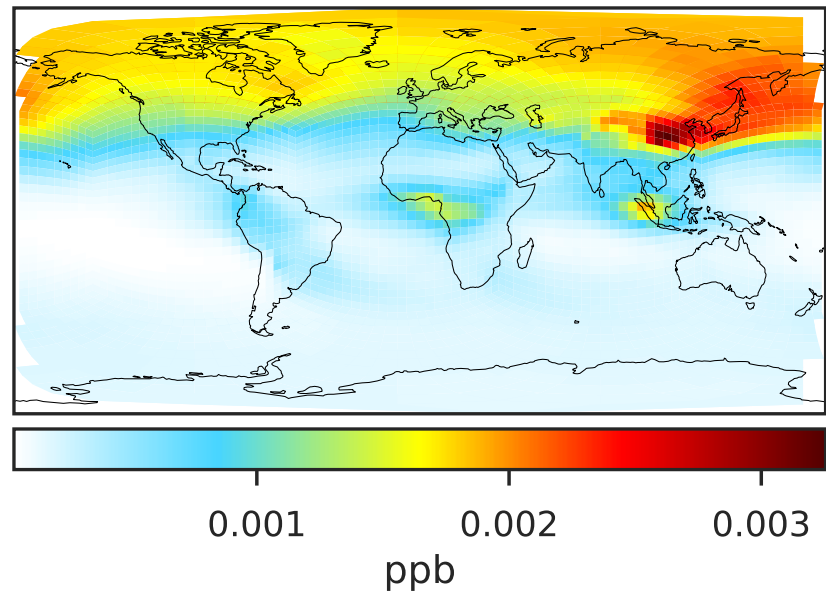


SpeciesConcVV_NPRNO3 (AnnualMean)

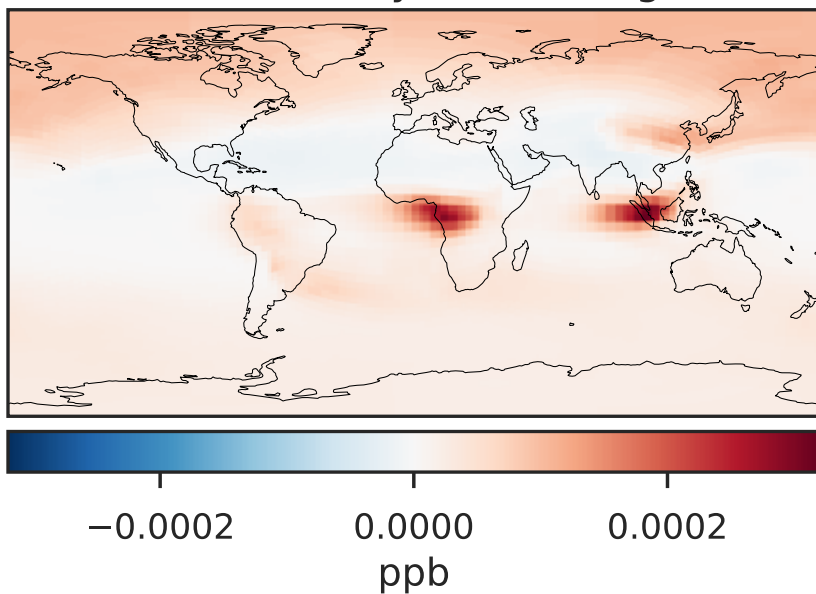
GCHP_14.0.0 (Ref)
c24



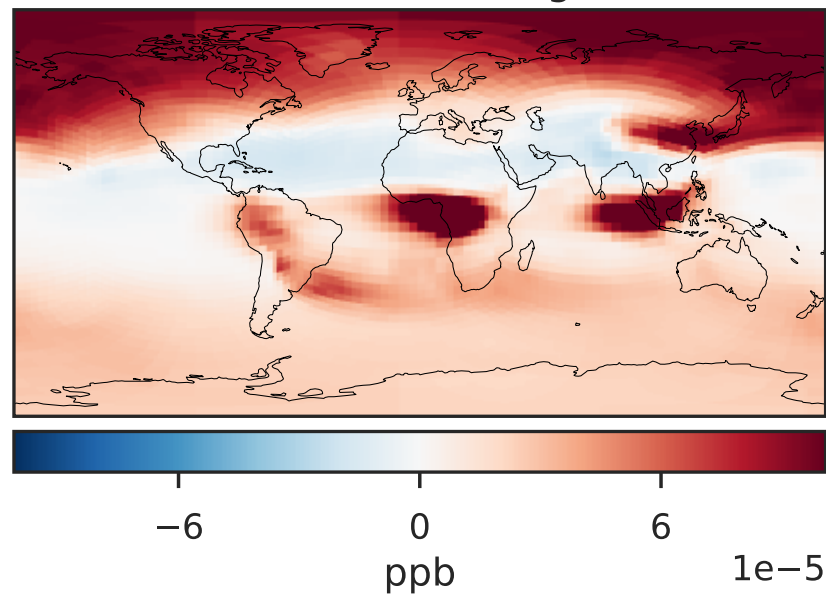
GCHP_14.2.0 (Dev)
c24



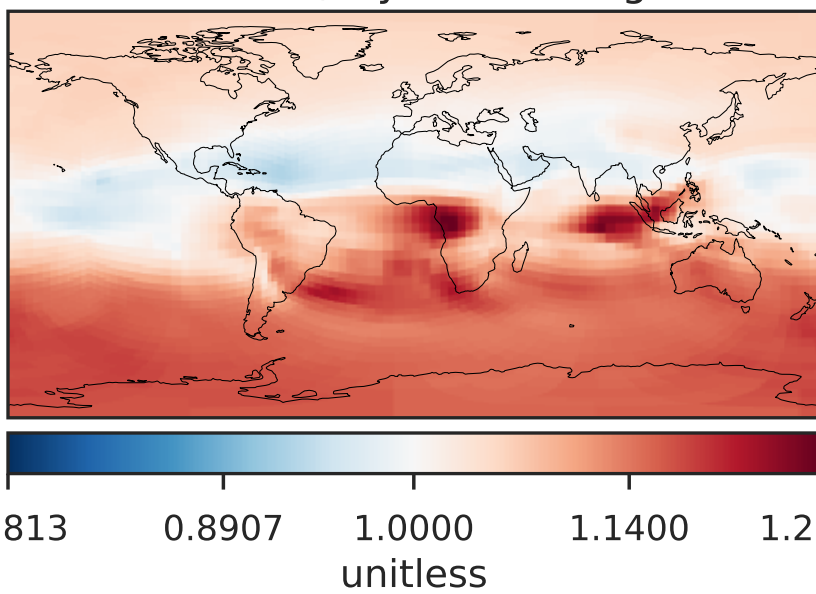
Difference (1x1.25)
Dev - Ref, Dynamic Range



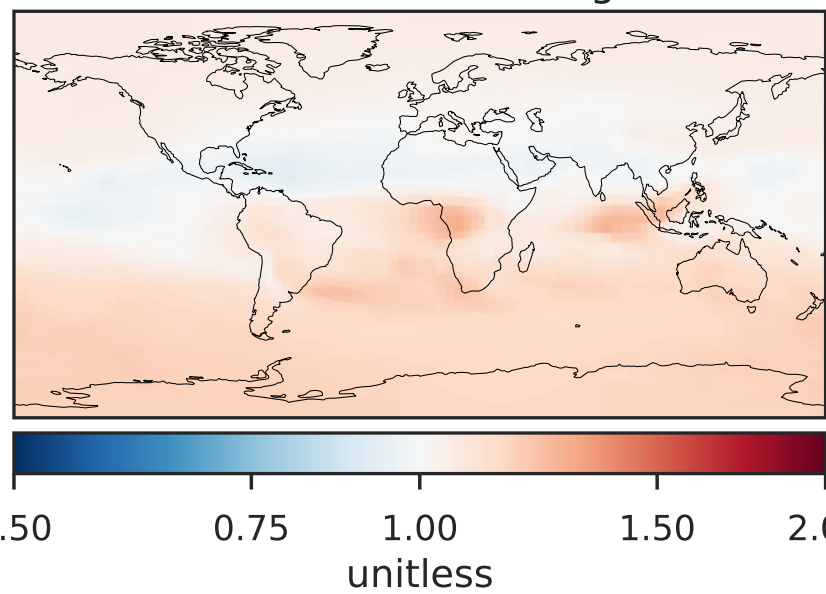
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

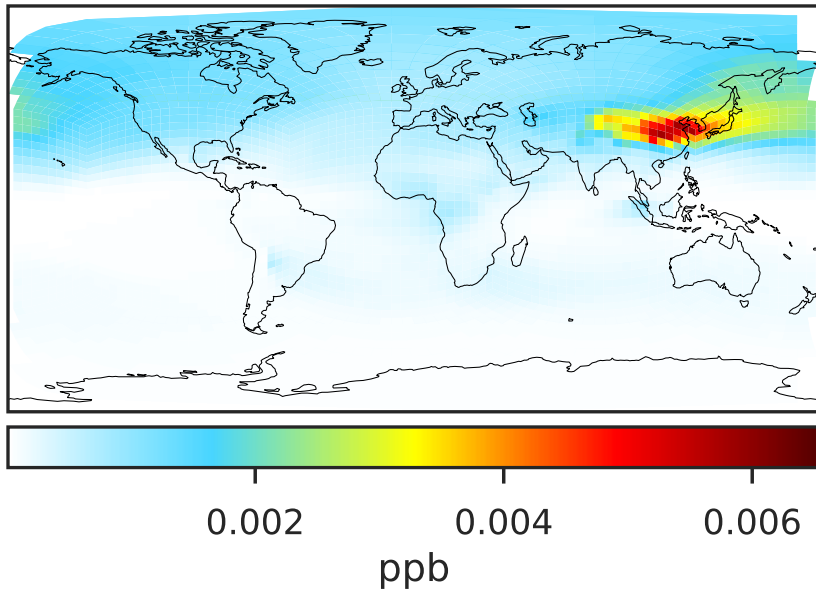


Ratio (1x1.25)
Dev/Ref, Fixed Range

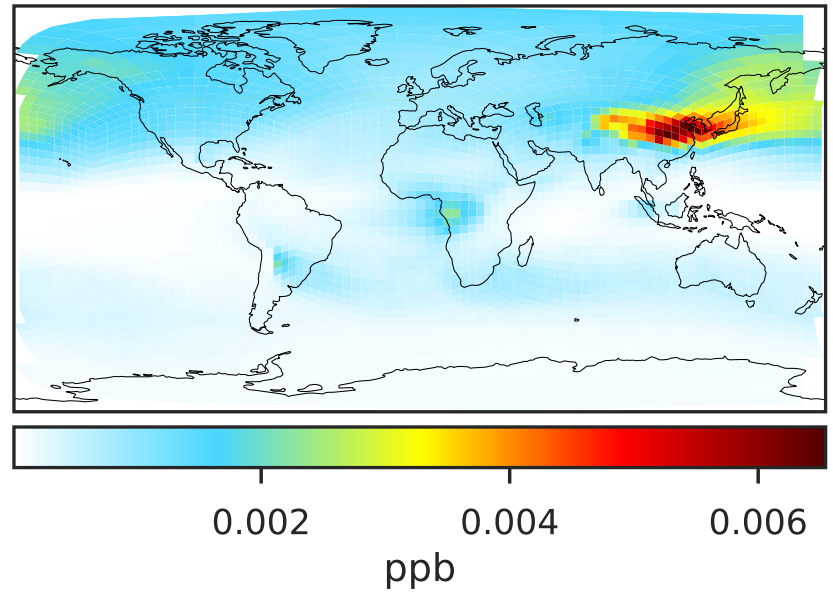


SpeciesConcVV_AONITA (AnnualMean)

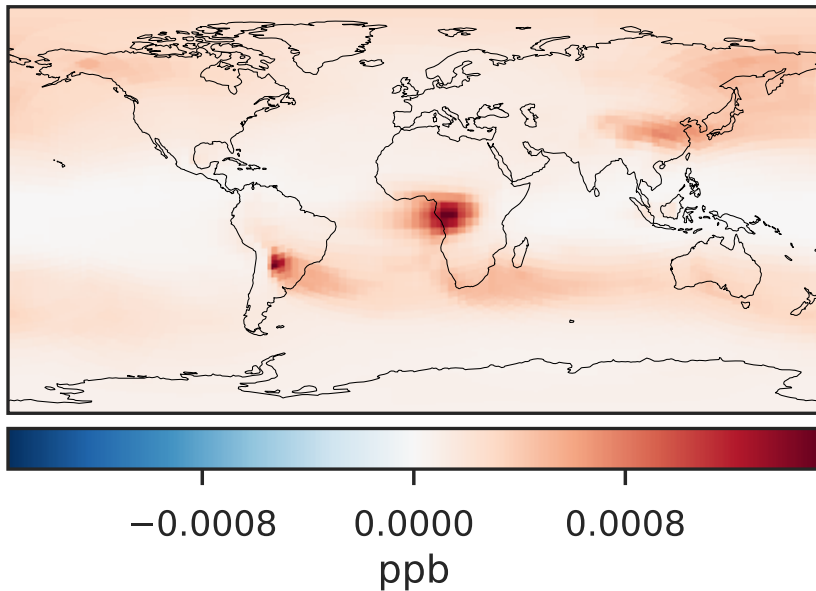
GCHP_14.0.0 (Ref)
c24



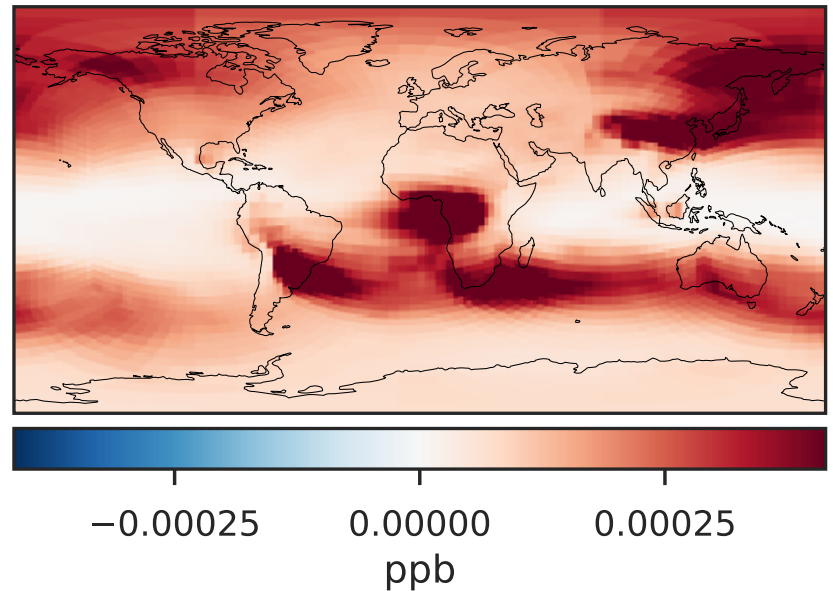
GCHP_14.2.0 (Dev)
c24



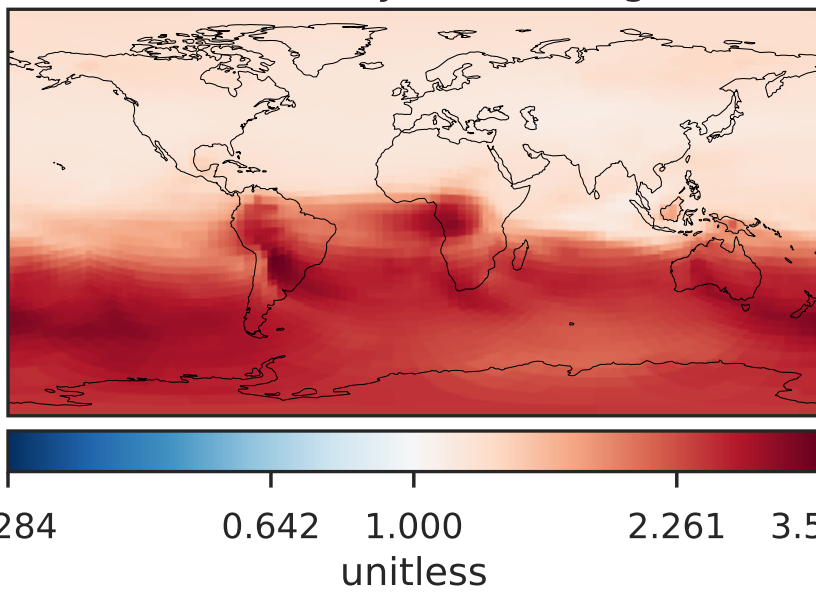
Difference (1x1.25)
Dev - Ref, Dynamic Range



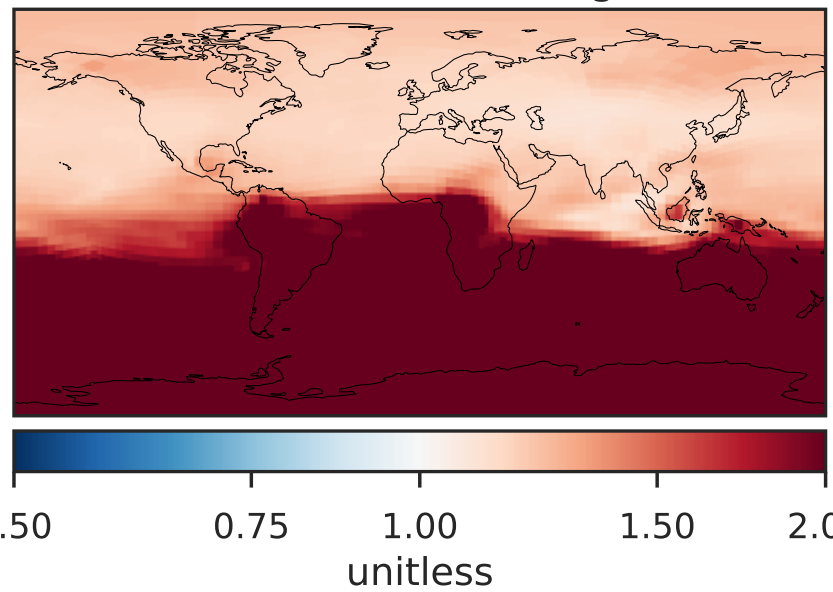
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

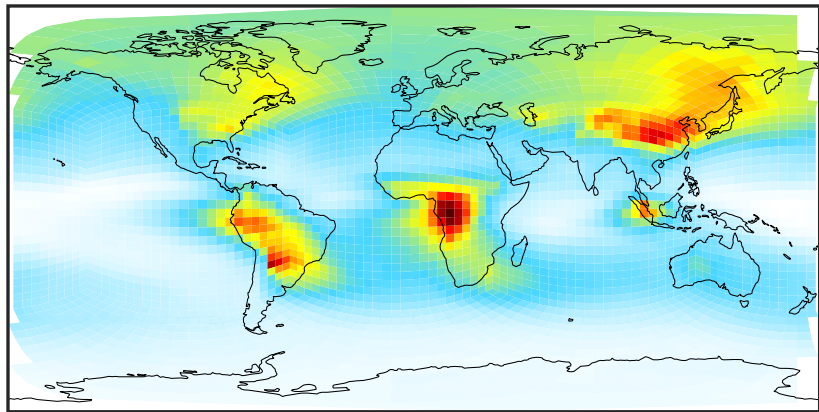


Ratio (1x1.25)
Dev/Ref, Fixed Range



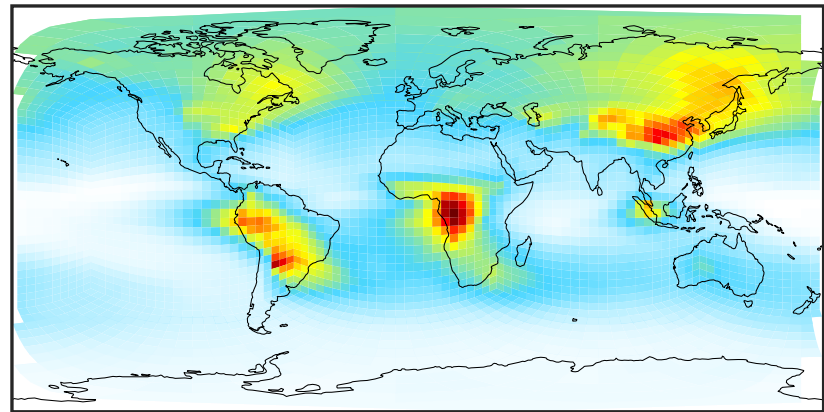
SpeciesConcVV_ETHN (AnnualMean)

GCHP_14.0.0 (Ref)
c24



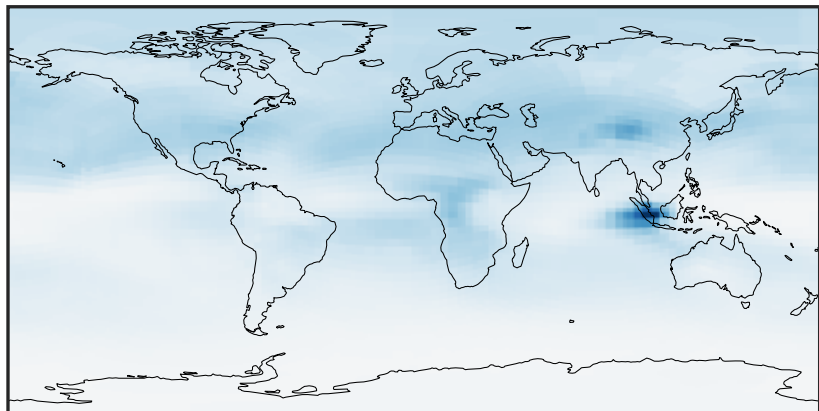
0.00015 0.00030 0.00045
ppb

GCHP_14.2.0 (Dev)
c24



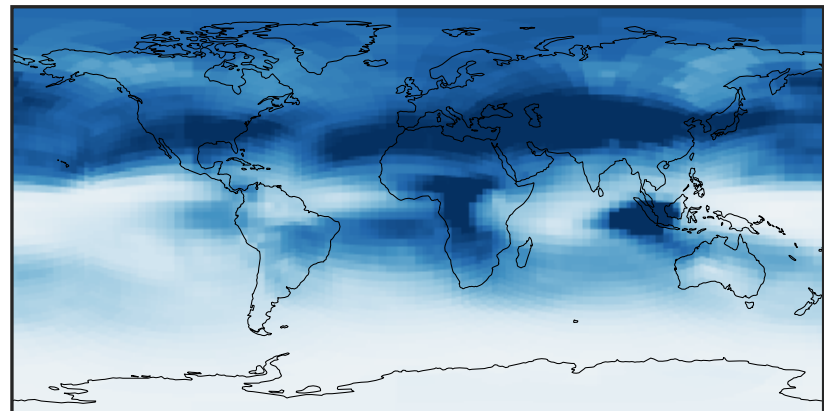
0.00015 0.00030 0.00045
ppb

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



-2.5 0.0 2.5
ppb $1e-5$

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



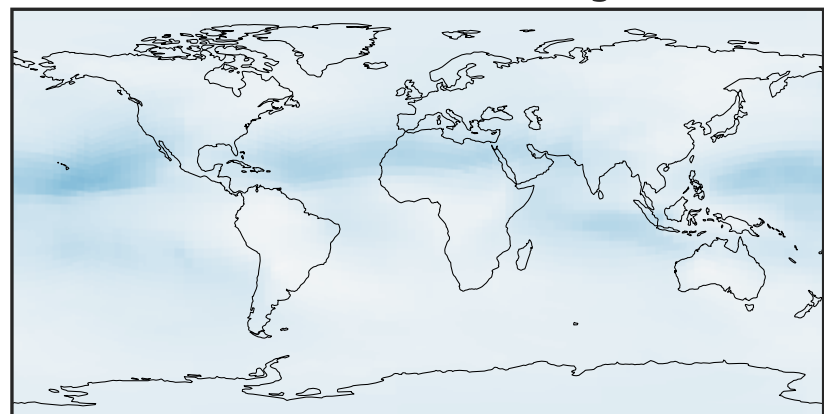
-8 0 8
ppb $1e-6$

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



0.98592 0.99296 1.00000 1.00714 1.01428
unitless

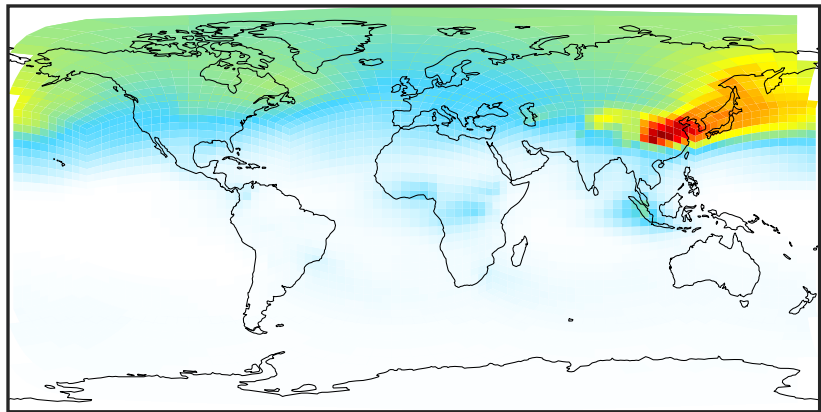
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

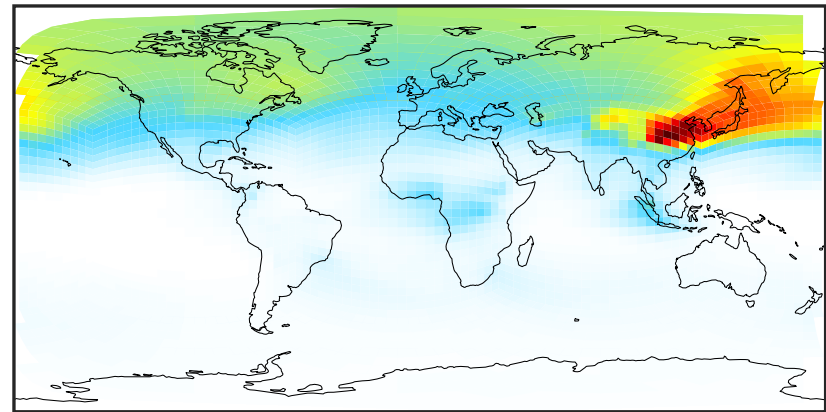
SpeciesConcVV_BZPAN (AnnualMean)

GCHP_14.0.0 (Ref)
c24



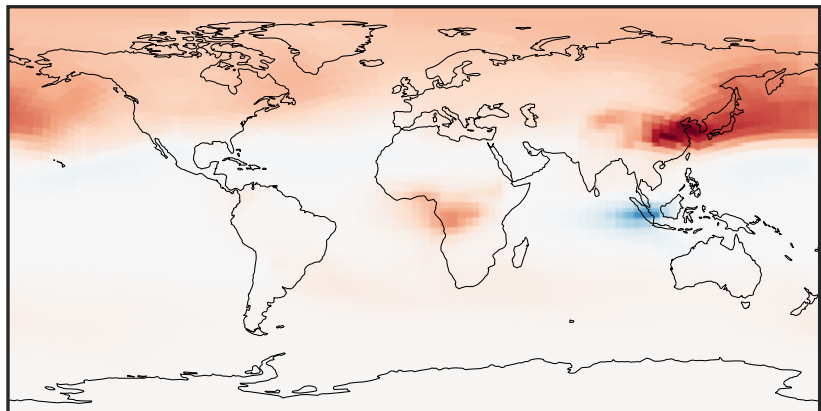
0.00025 0.00050 0.00075
ppb

GCHP_14.2.0 (Dev)
c24



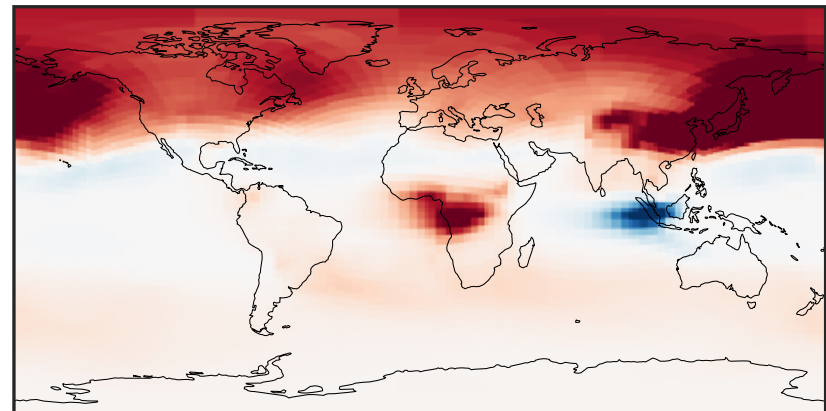
0.00025 0.00050 0.00075
ppb

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



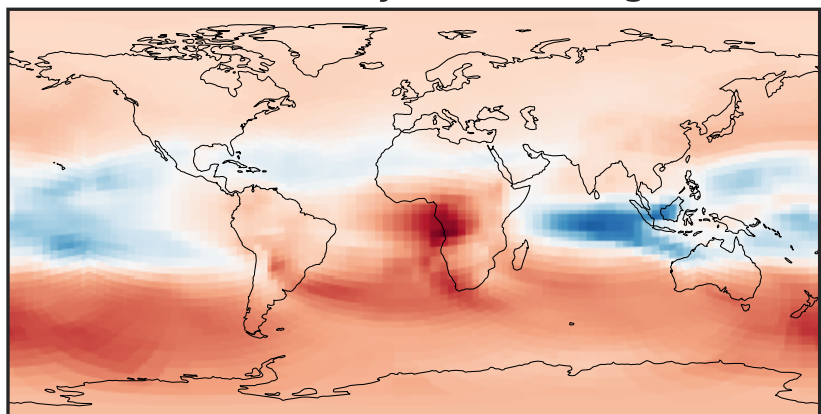
-5 0 5
ppb $1e-5$

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



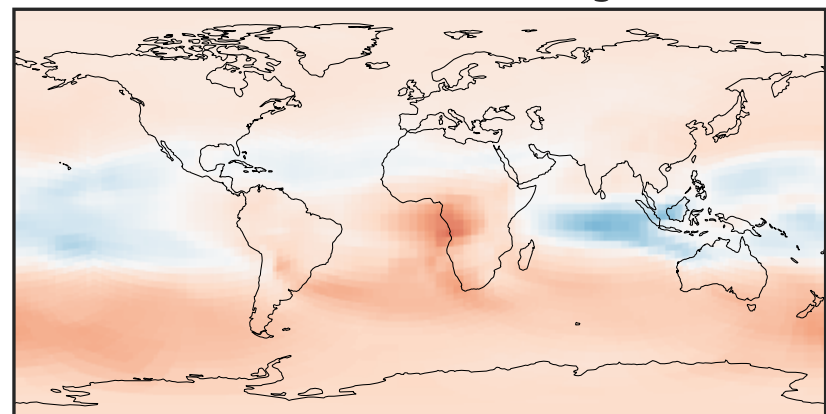
-1.5 0.0 1.5
ppb $1e-5$

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



0.6849 0.8425 1.0000 1.2300 1.4601
unitless

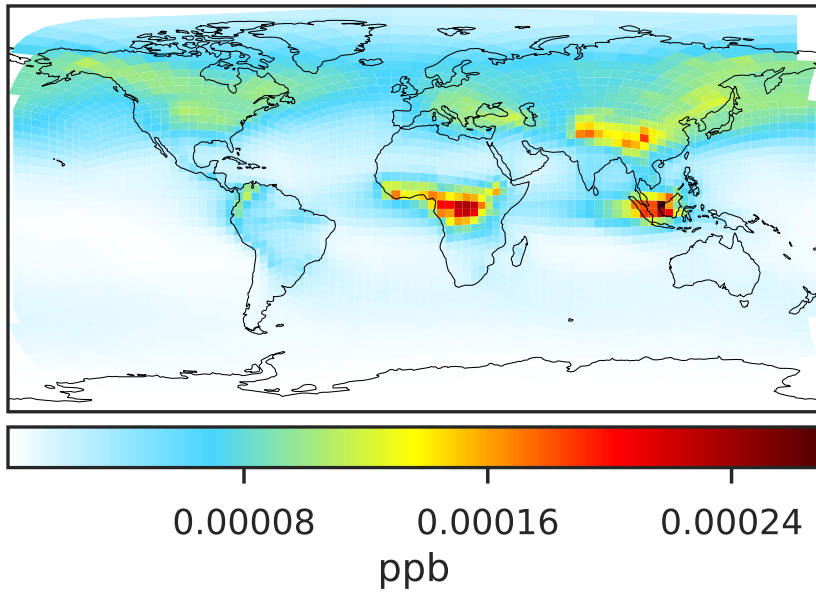
Ratio (1x1.25)
Dev/Ref, Fixed Range



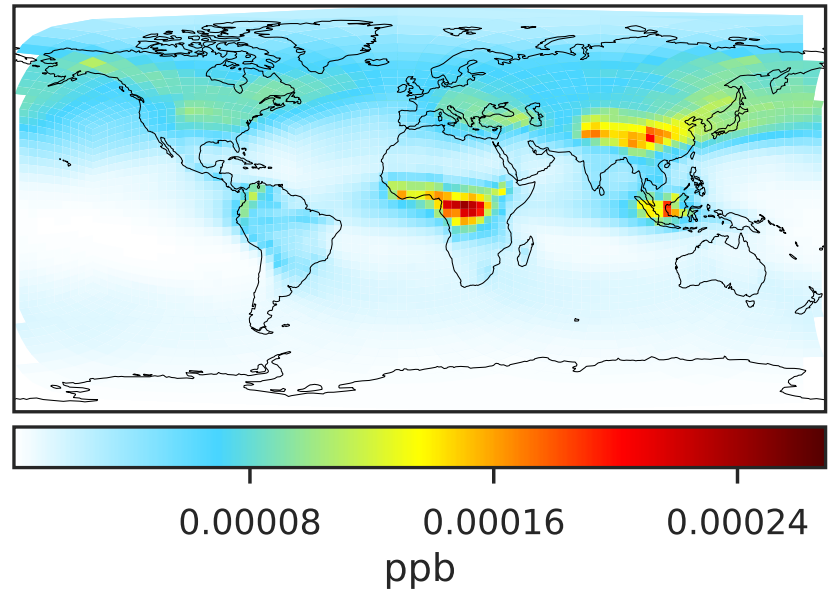
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_NPHEN (AnnualMean)

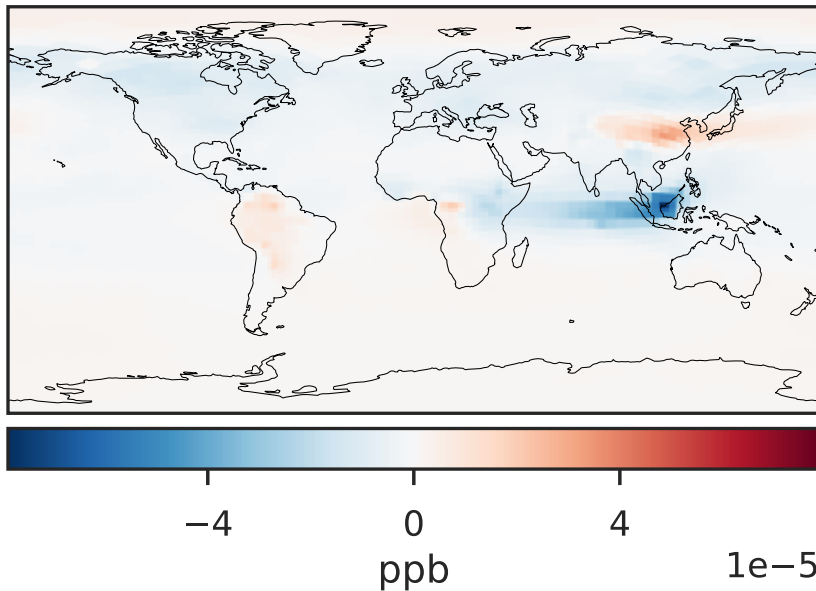
GCHP_14.0.0 (Ref)
c24



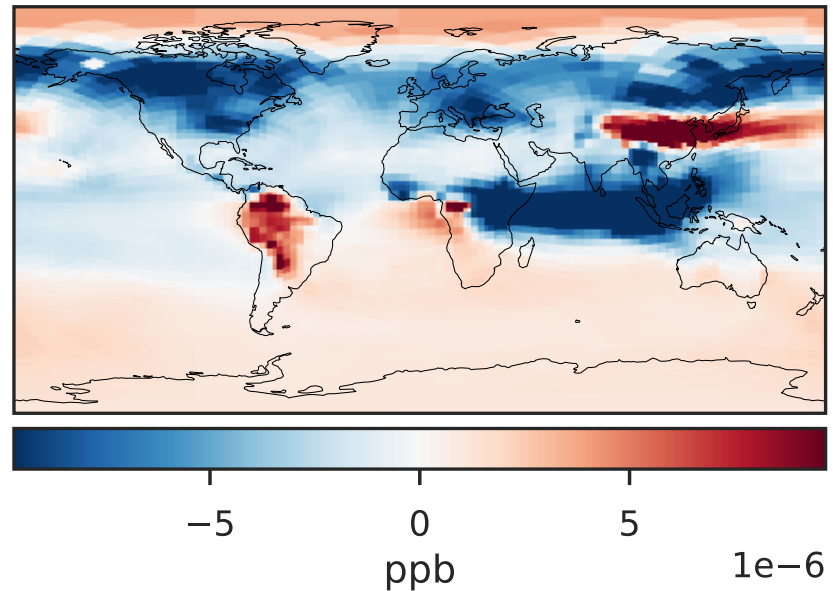
GCHP_14.2.0 (Dev)
c24



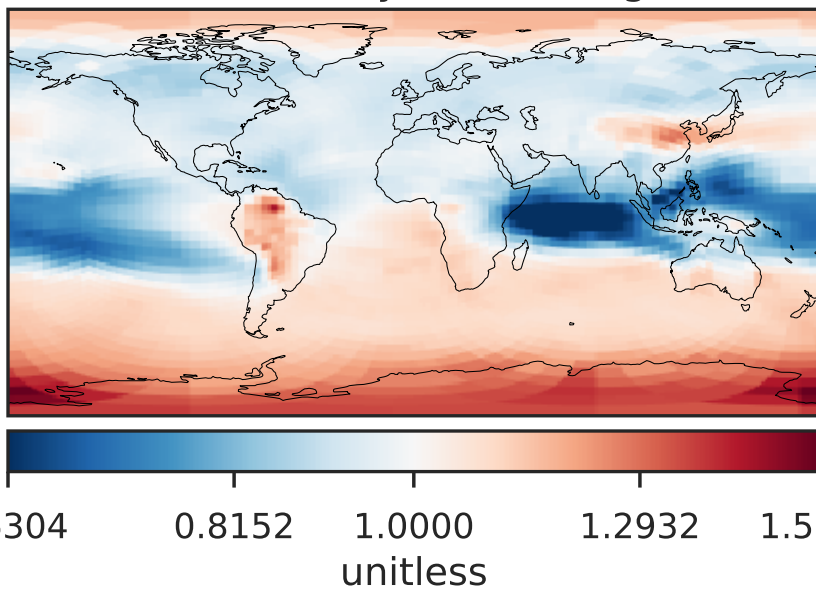
Difference (1x1.25)
Dev - Ref, Dynamic Range



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



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



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

