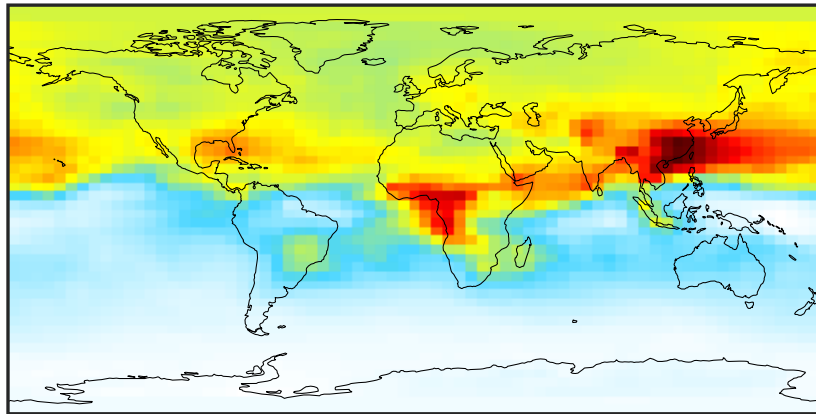


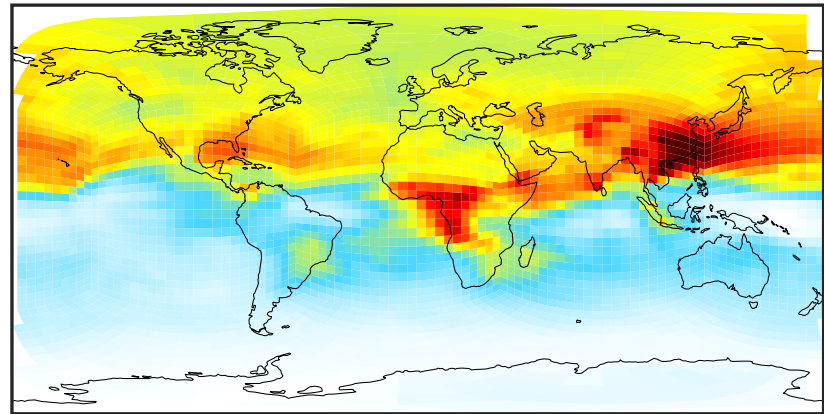
SpeciesConcVV_NOy (Apr2019)

GCC_14.2.0 (Ref)
4.0x5.0



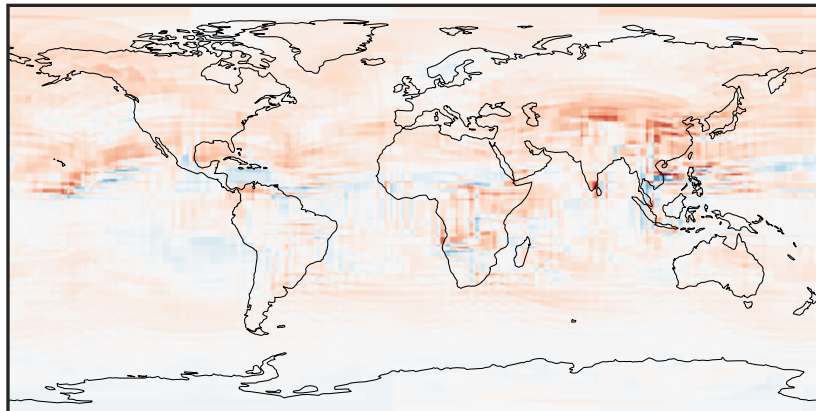
0.0308 0.2102 0.4204 0.6307 0.8717
ppb

GCHP_14.2.0 (Dev)
c24



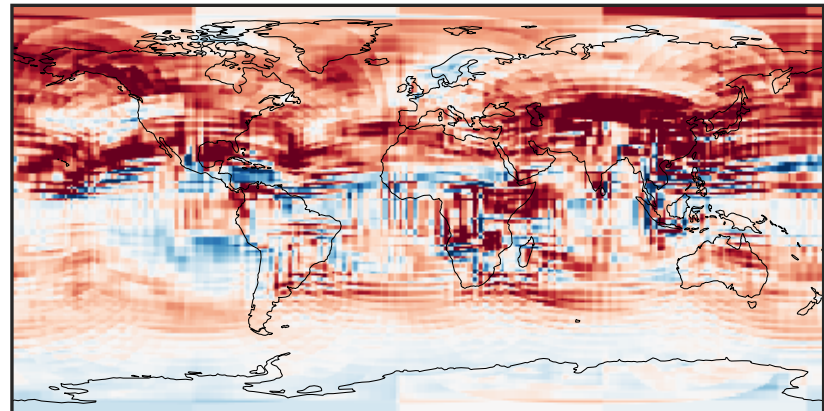
0.0308 0.2102 0.4204 0.6307 0.8717
ppb

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



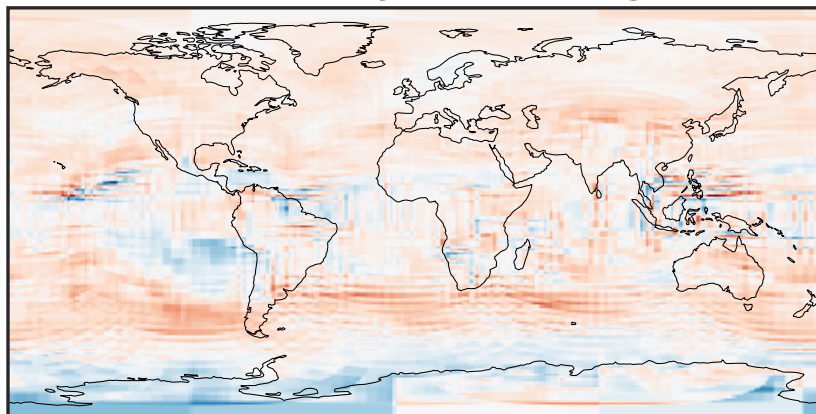
-0.224 -0.112 0.000 0.112 0.224
ppb

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



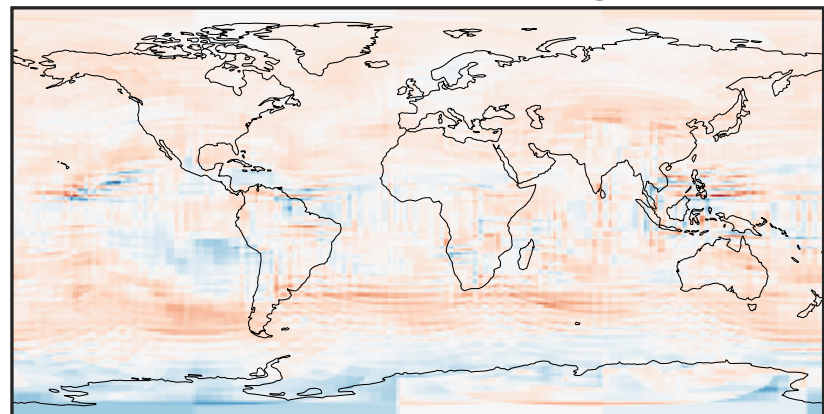
-0.025 0.000 0.025
ppb

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



0.562 0.781 1.000 1.389 1.778
unitless

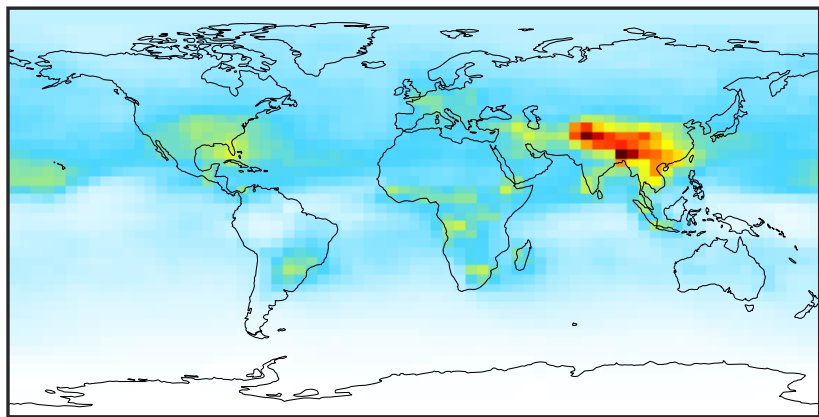
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

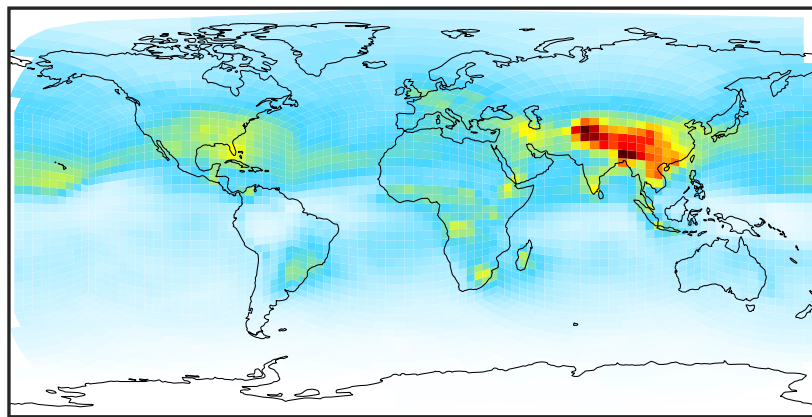
SpeciesConcVV_NOx (Apr2019)

GCC_14.2.0 (Ref)
4.0x5.0



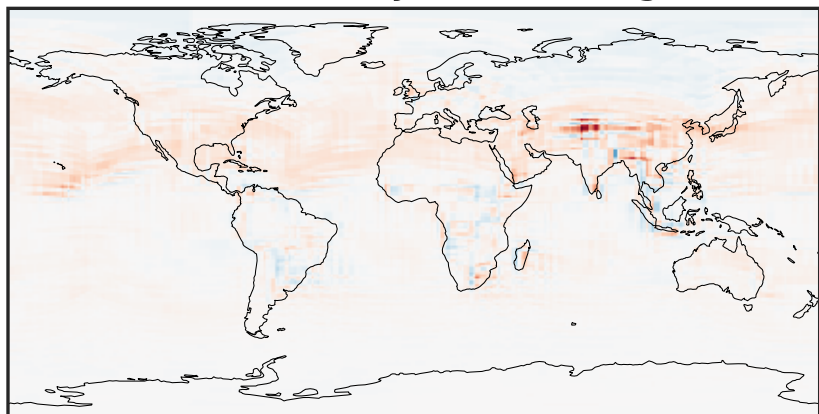
0.0010 0.0591 0.1182 0.1773 0.2374
ppb

GCHP_14.2.0 (Dev)
c24



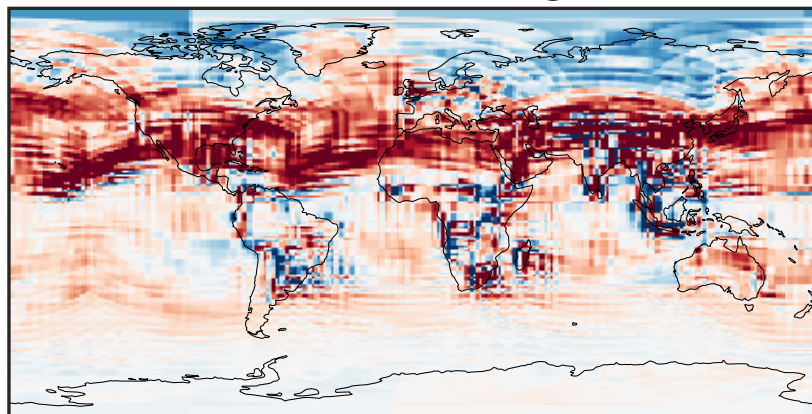
0.0010 0.0591 0.1182 0.1773 0.2374
ppb

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



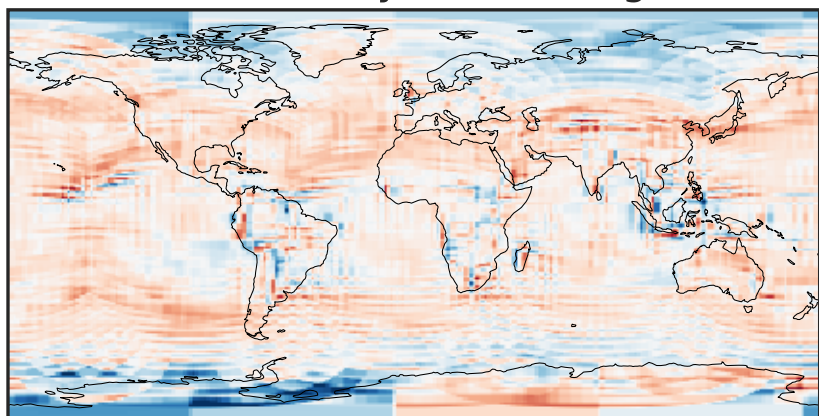
-0.0857 -0.0428 0.0000 0.0428 0.0857
ppb

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



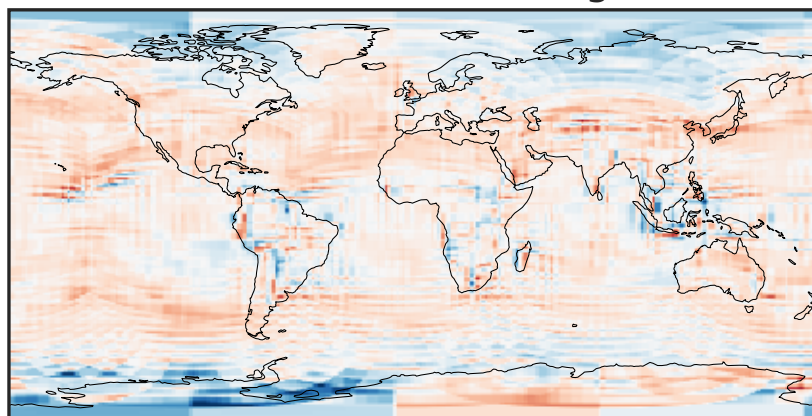
-0.005 0.000 0.005
ppb

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



0.554 0.777 1.000 1.403 1.806
unitless

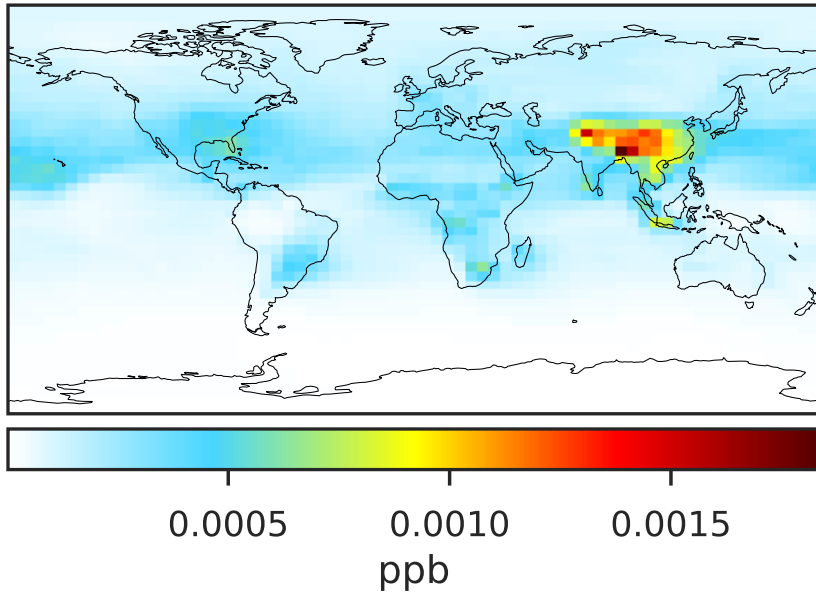
Ratio (1x1.25)
Dev/Ref, Fixed Range



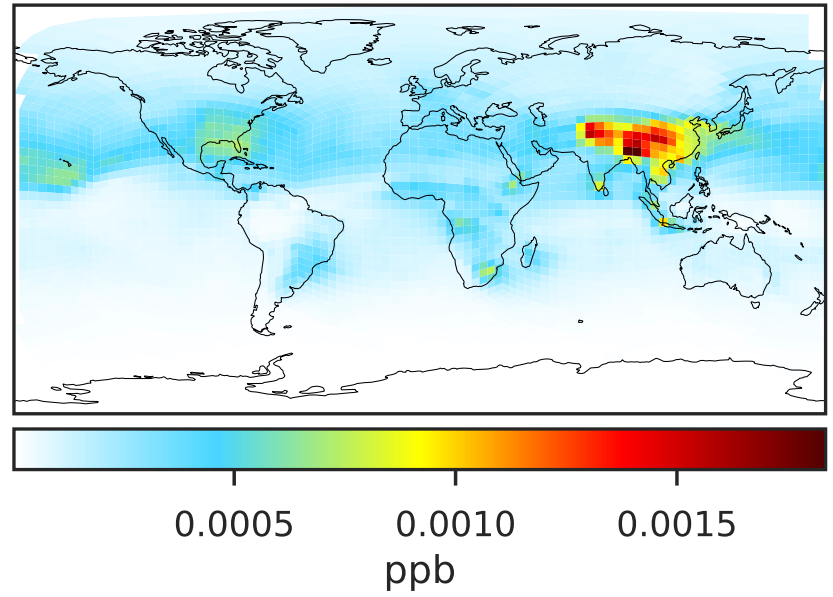
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_HNO2 (Apr2019)

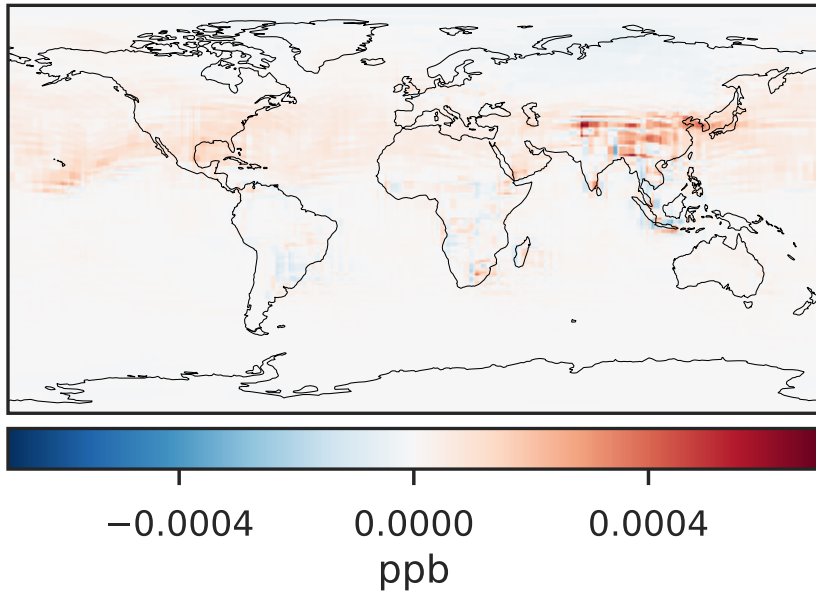
GCC_14.2.0 (Ref)
4.0x5.0



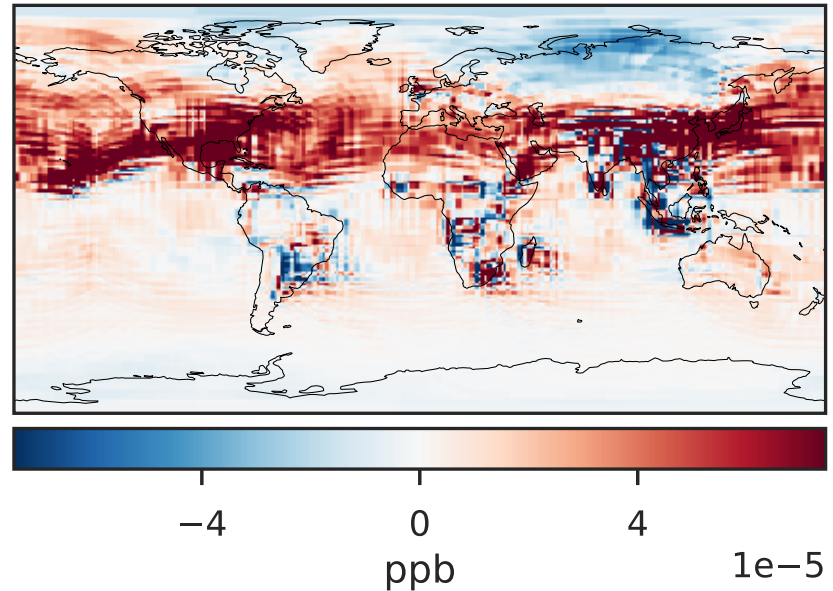
GCHP_14.2.0 (Dev)
c24



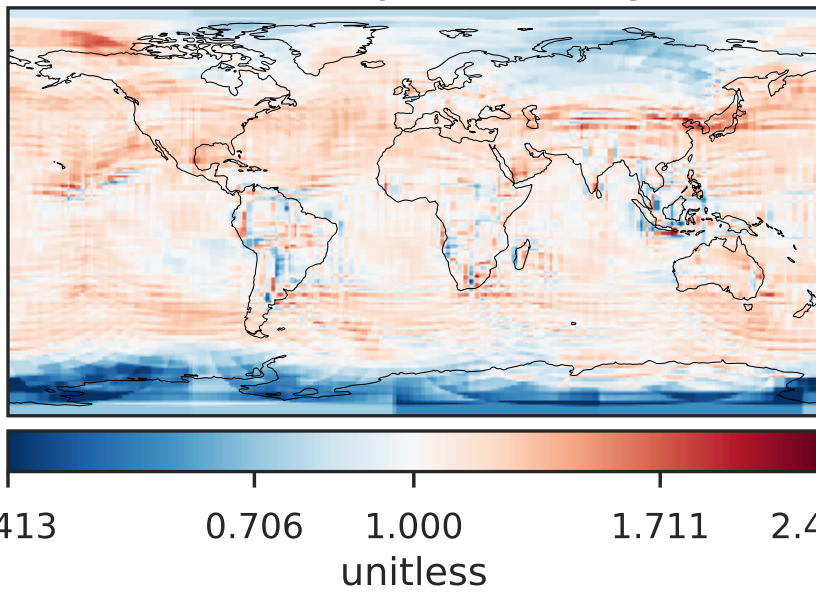
Difference (1x1.25)
Dev - Ref, Dynamic Range



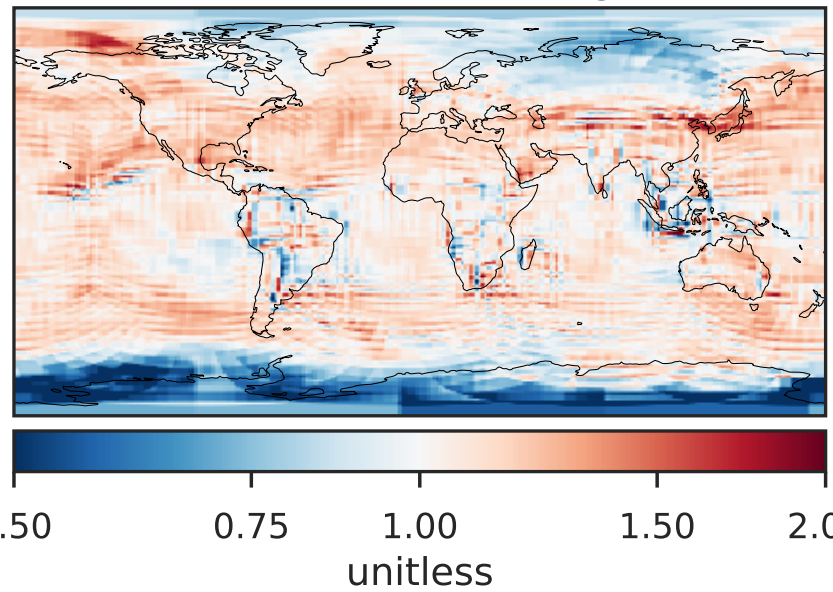
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

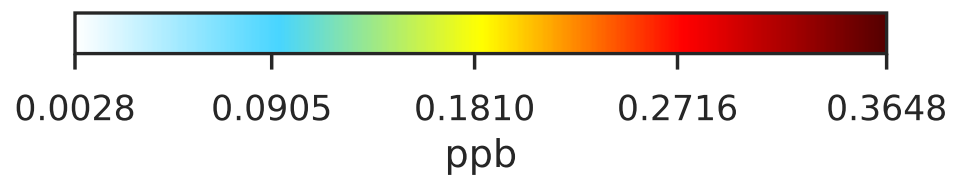
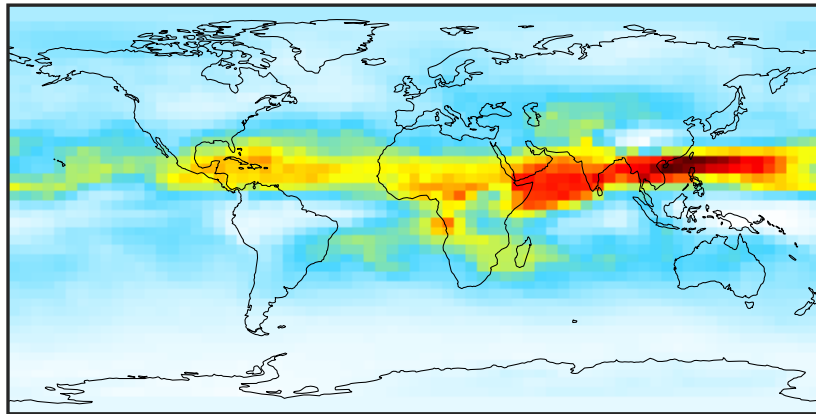


Ratio (1x1.25)
Dev/Ref, Fixed Range

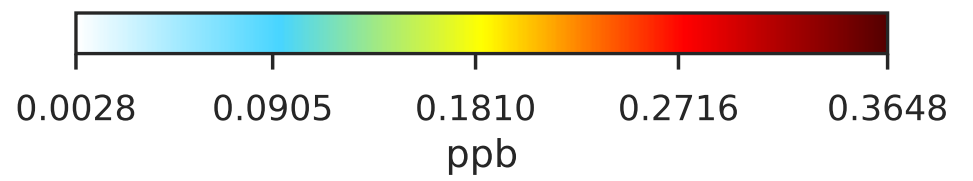
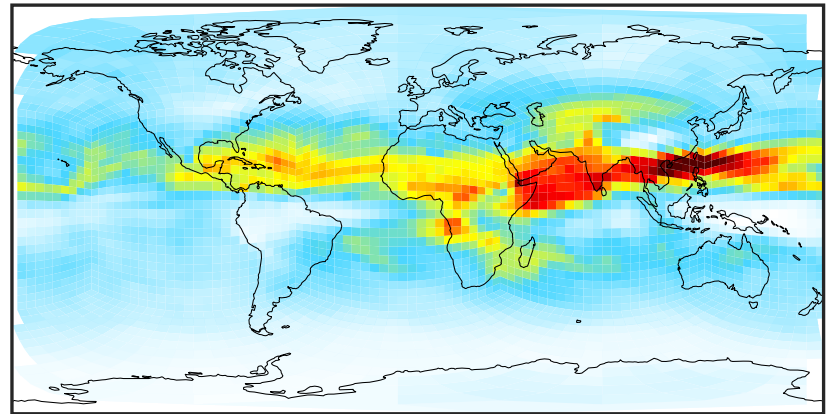


SpeciesConcVV_HNO3 (Apr2019)

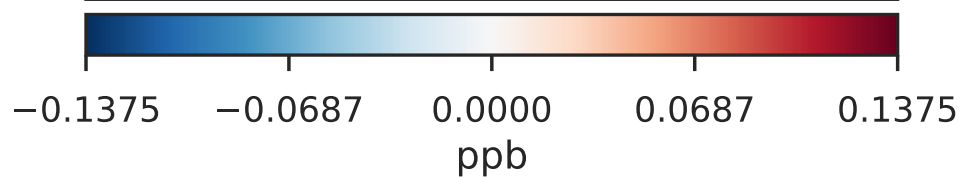
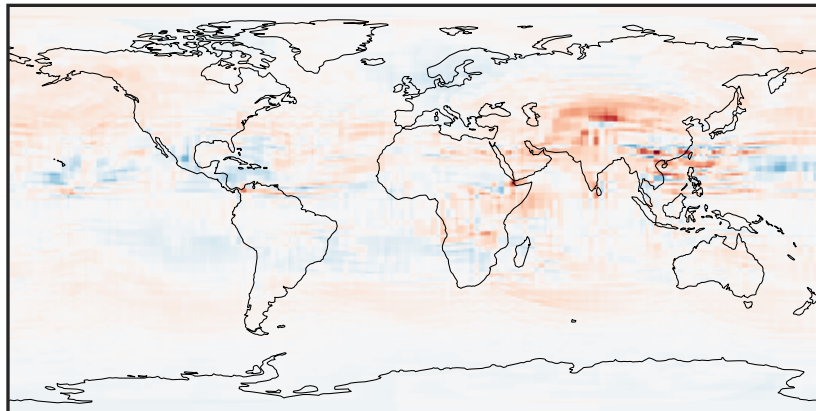
GCC_14.2.0 (Ref)
4.0x5.0



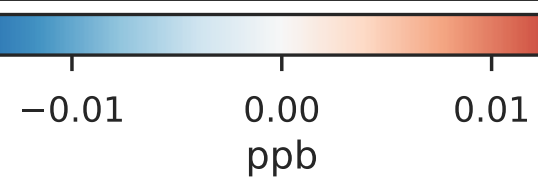
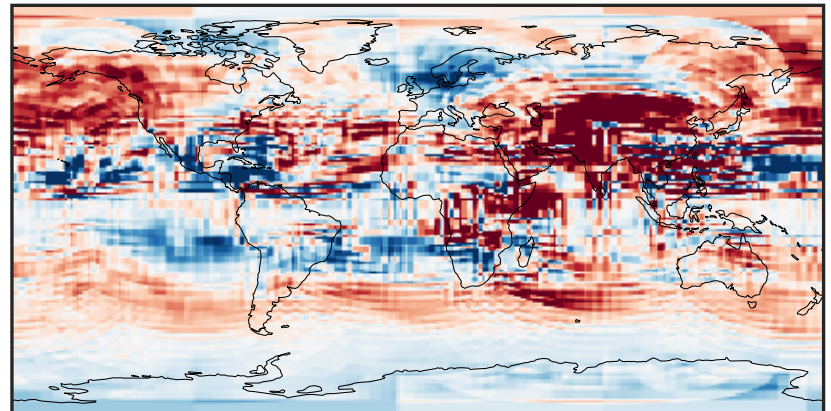
GCHP_14.2.0 (Dev)
c24



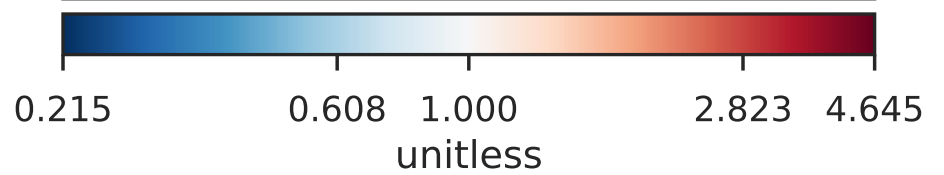
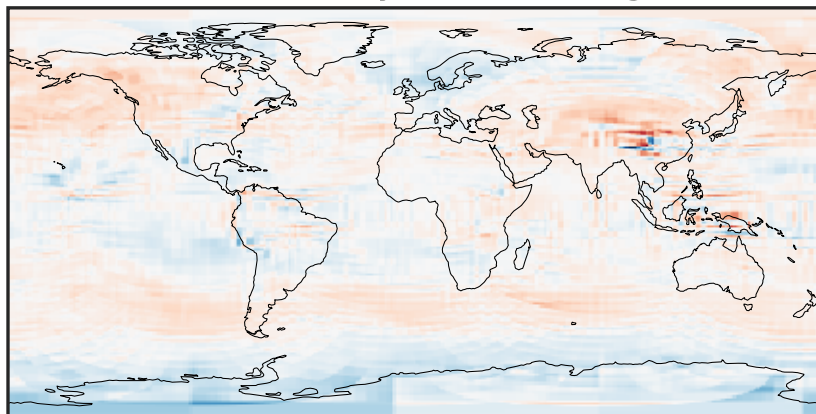
Difference (1x1.25)
Dev - Ref, Dynamic Range



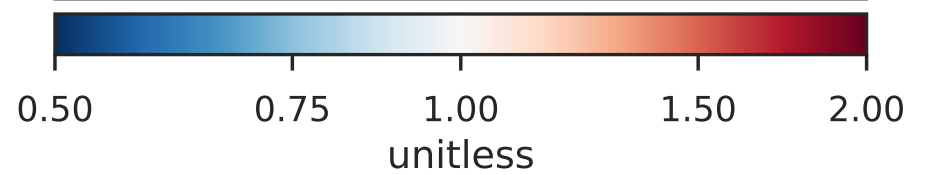
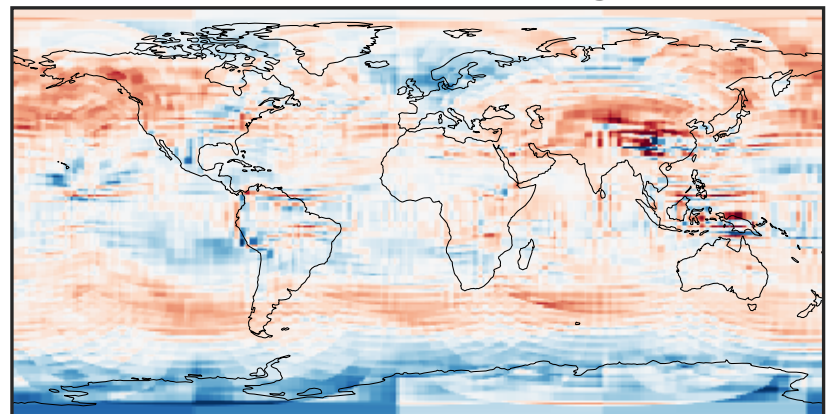
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

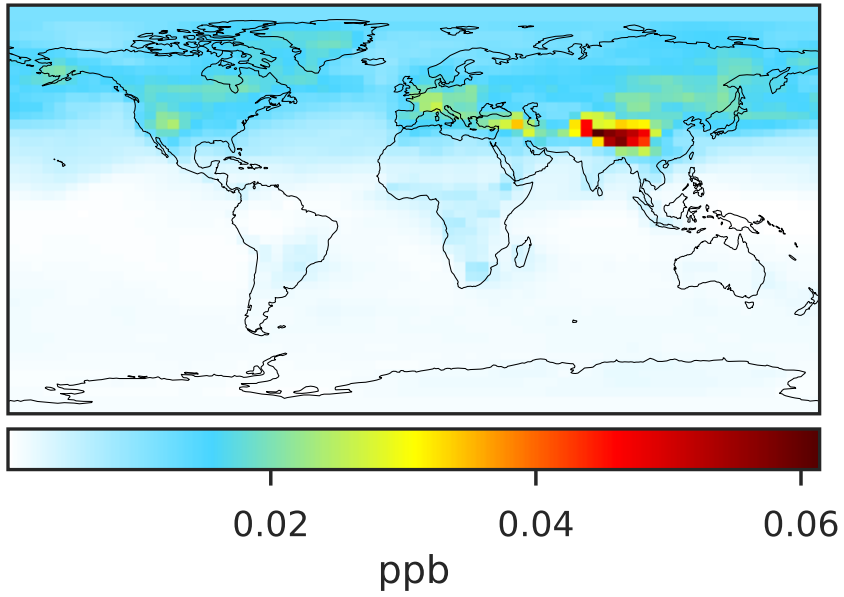


Ratio (1x1.25)
Dev/Ref, Fixed Range

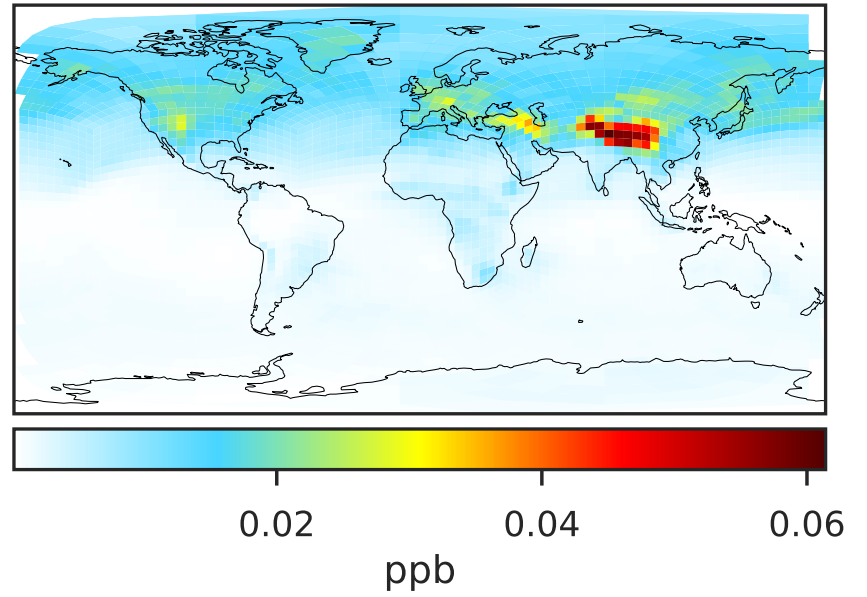


SpeciesConcVV_HNO4 (Apr2019)

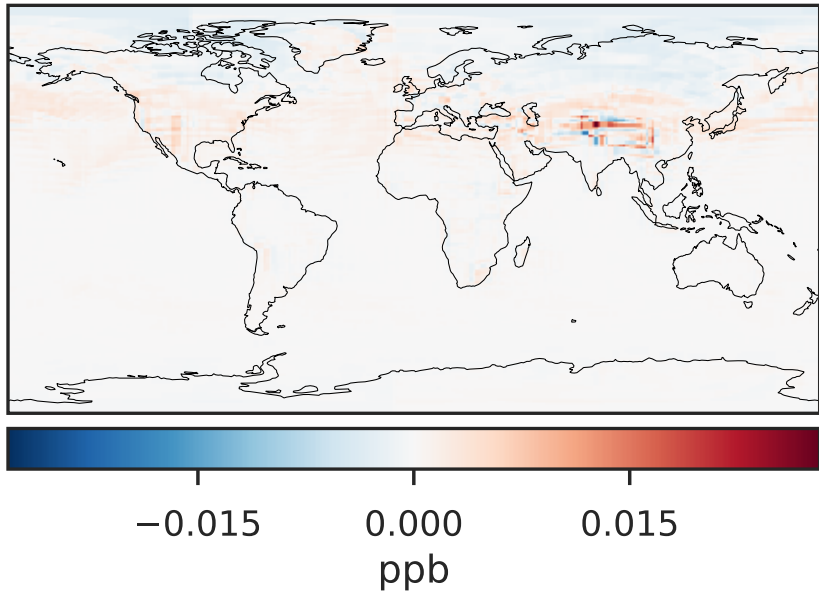
GCC_14.2.0 (Ref)
4.0x5.0



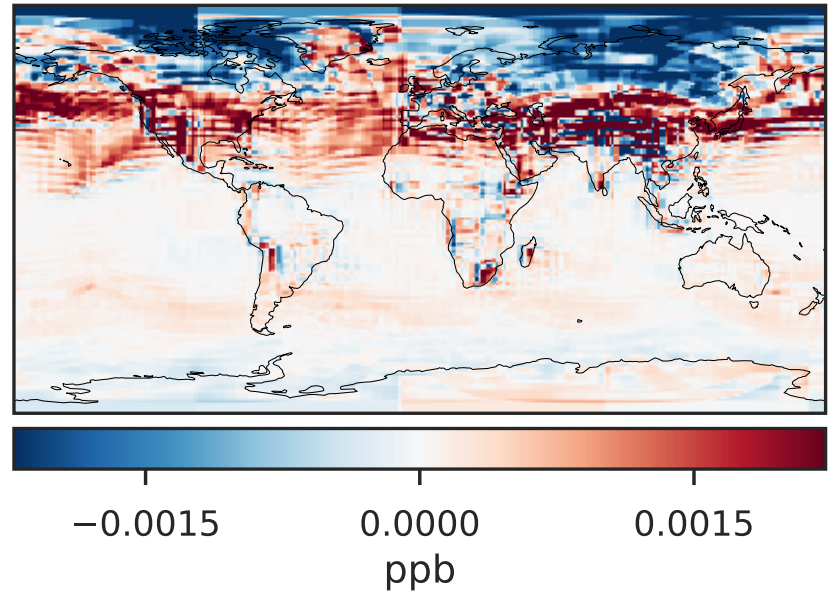
GCHP_14.2.0 (Dev)
c24



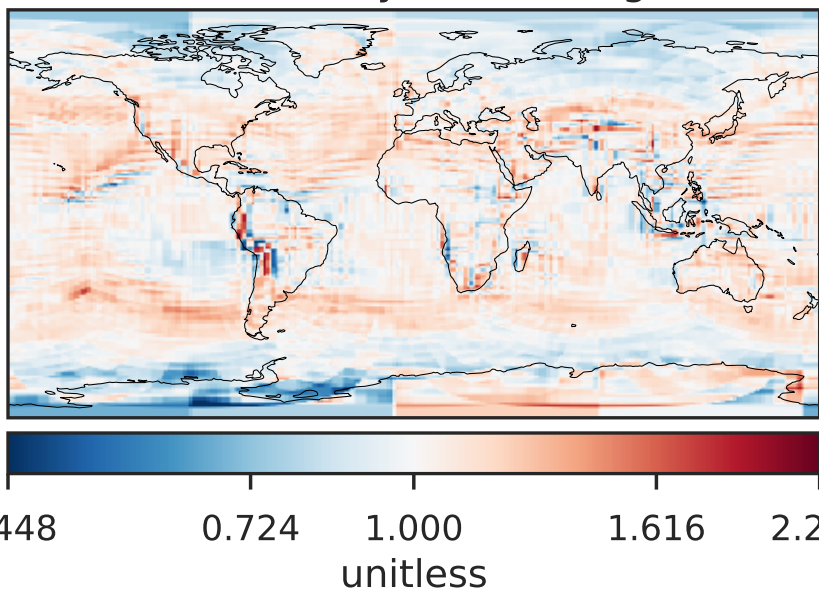
Difference (1x1.25)
Dev - Ref, Dynamic Range



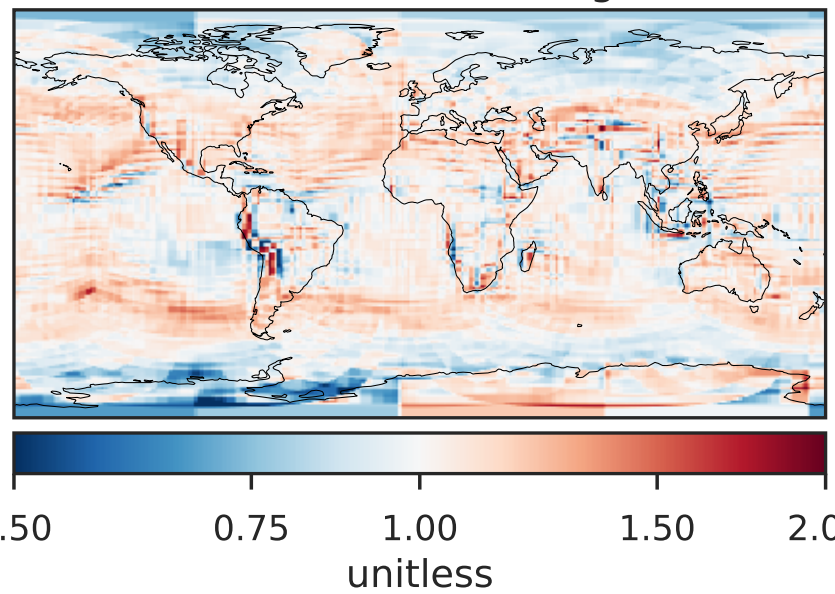
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

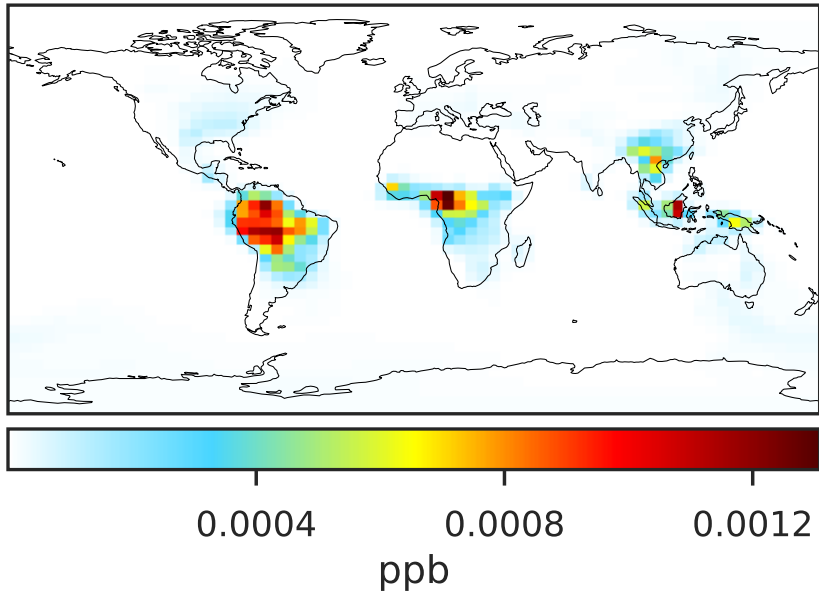


Ratio (1x1.25)
Dev/Ref, Fixed Range

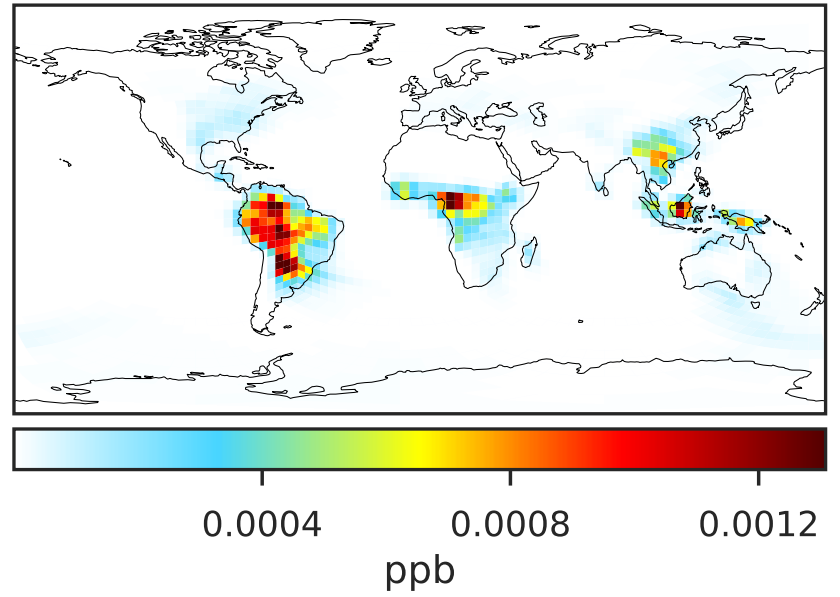


SpeciesConcVV_MPAN (Apr2019)

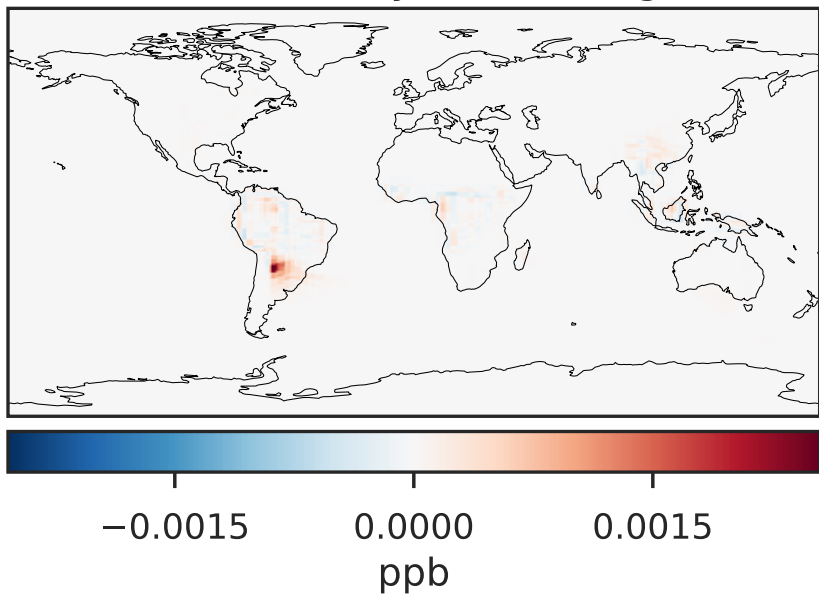
GCC_14.2.0 (Ref)
4.0x5.0



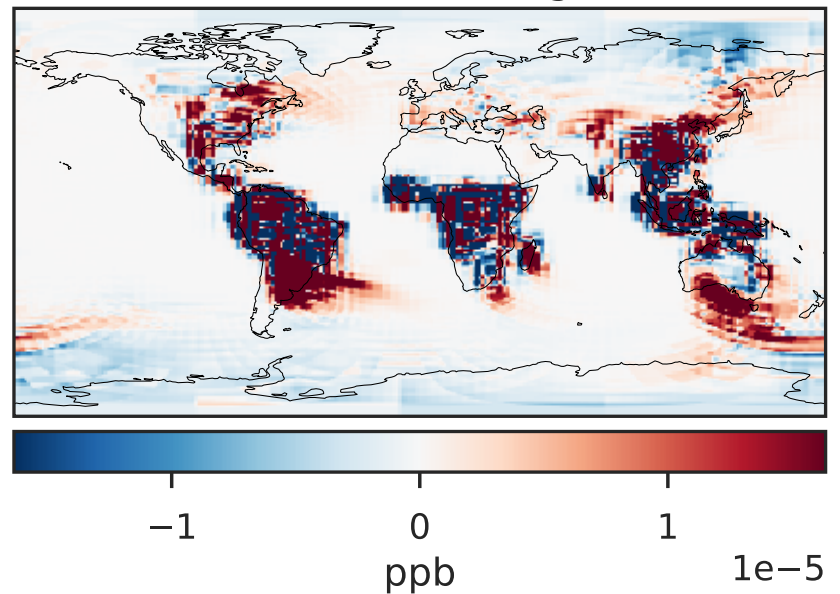
GCHP_14.2.0 (Dev)
c24



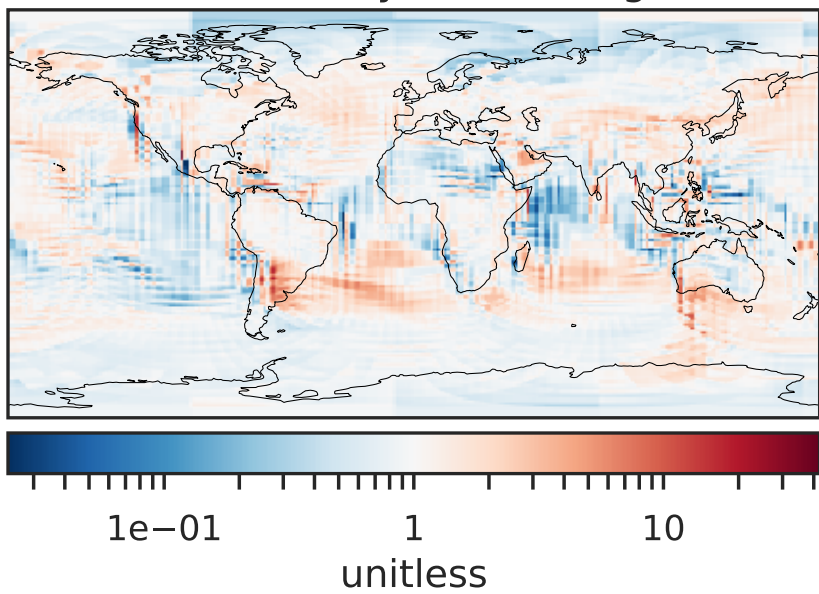
Difference (1x1.25)
Dev - Ref, Dynamic Range



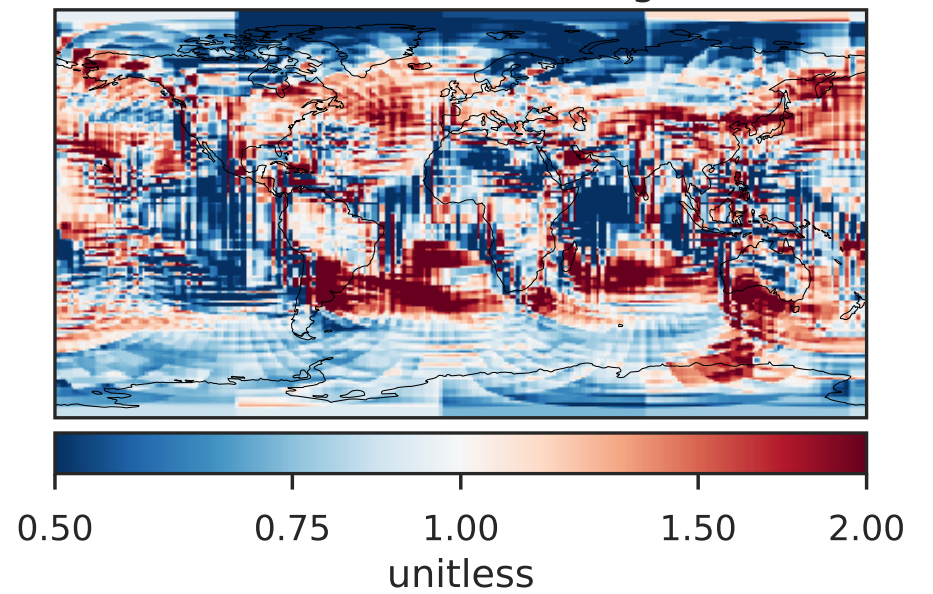
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

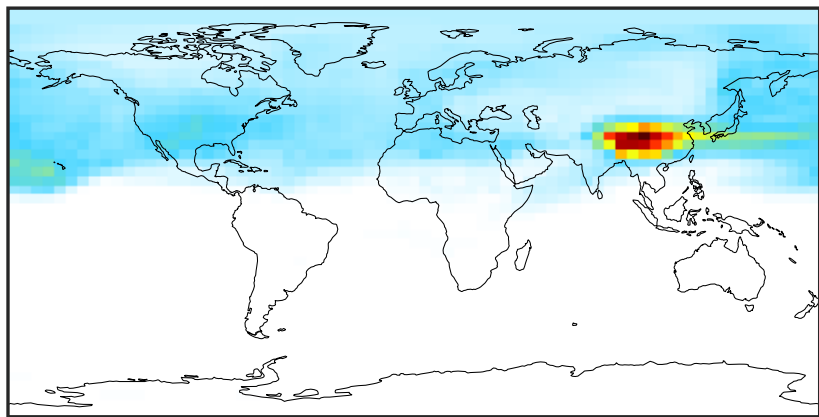


Ratio (1x1.25)
Dev/Ref, Fixed Range



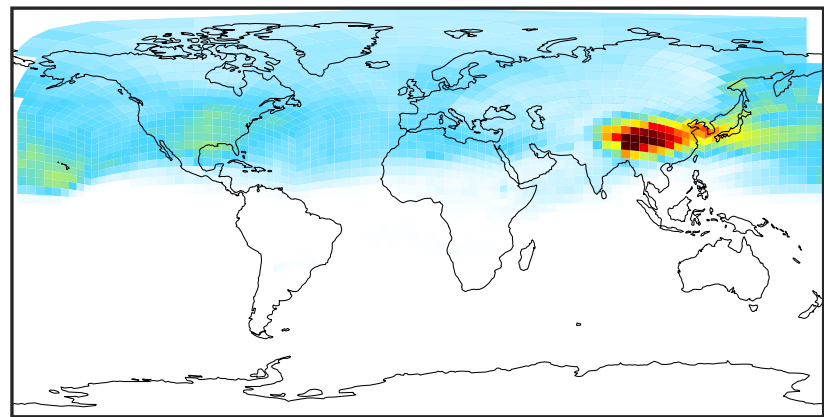
SpeciesConcVV_NIT (Apr2019)

GCC_14.2.0 (Ref)
4.0x5.0



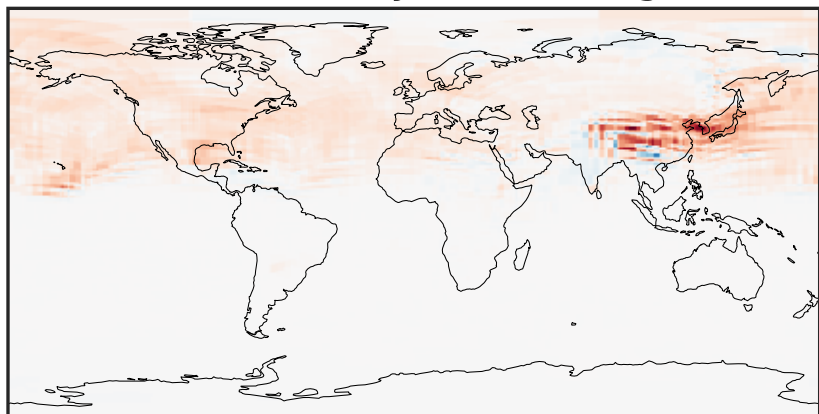
0.0000 0.1319 0.2638 0.3956 0.5275
ppb

GCHP_14.2.0 (Dev)
c24



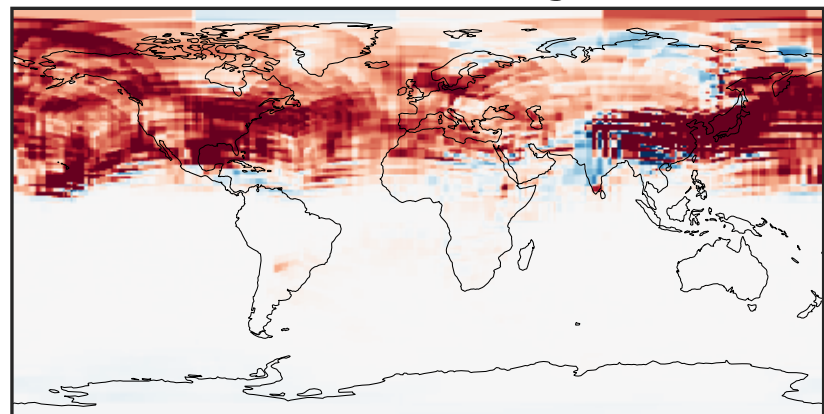
0.0000 0.1319 0.2638 0.3956 0.5275
ppb

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



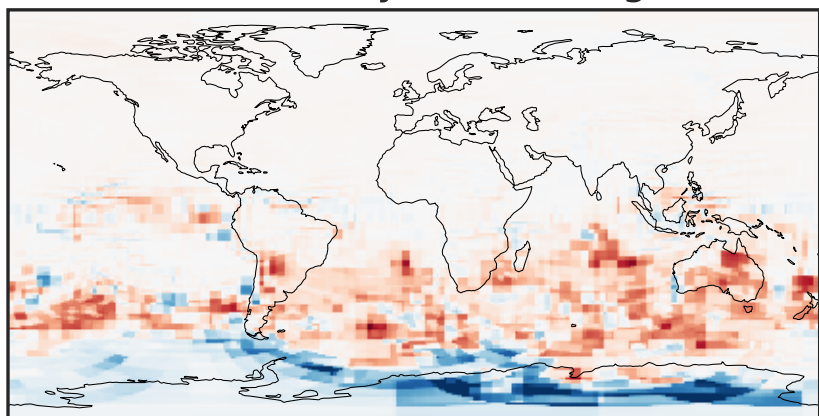
-0.2002 -0.1001 0.0000 0.1001 0.2002
ppb

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



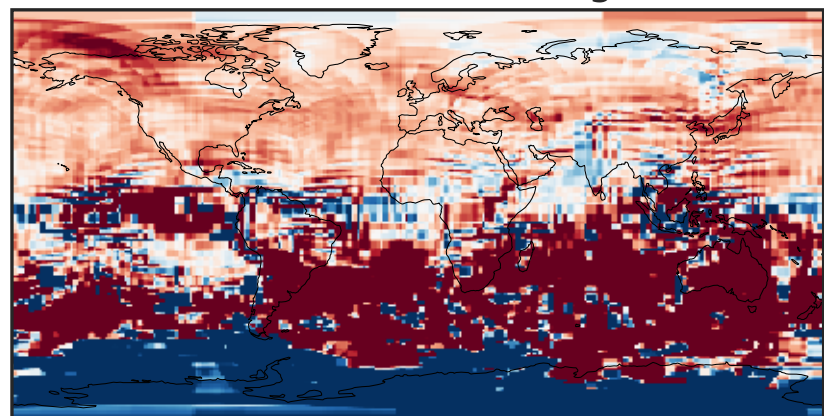
-0.02 0.00 0.02
ppb

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



1e-05 1e-03 1e-01 10 1000 1e+05
unitless

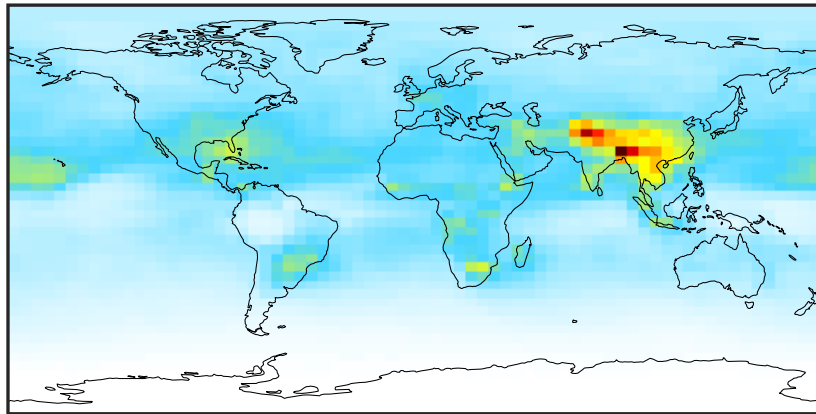
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

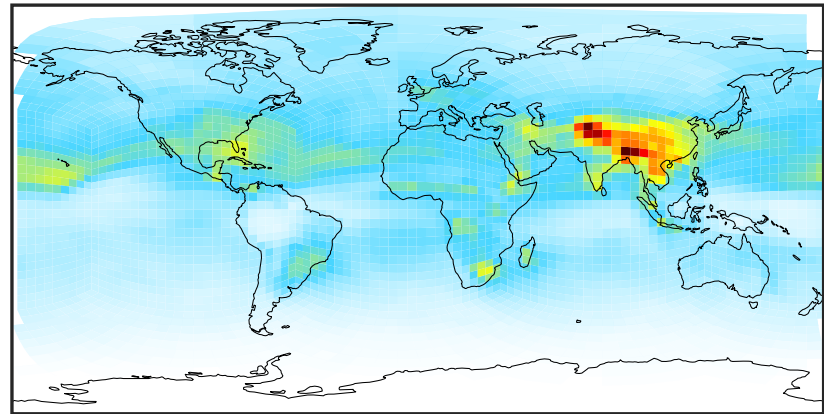
SpeciesConcVV_NO (Apr2019)

GCC_14.2.0 (Ref)
4.0x5.0



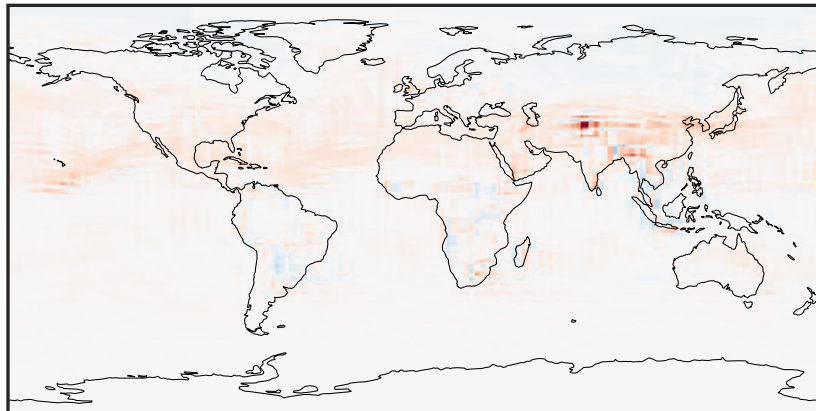
0.015 0.030 0.045
ppb

GCHP_14.2.0 (Dev)
c24



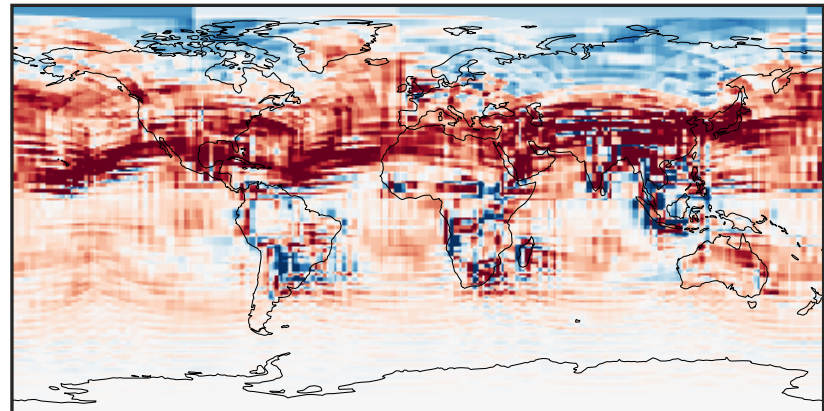
0.015 0.030 0.045
ppb

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



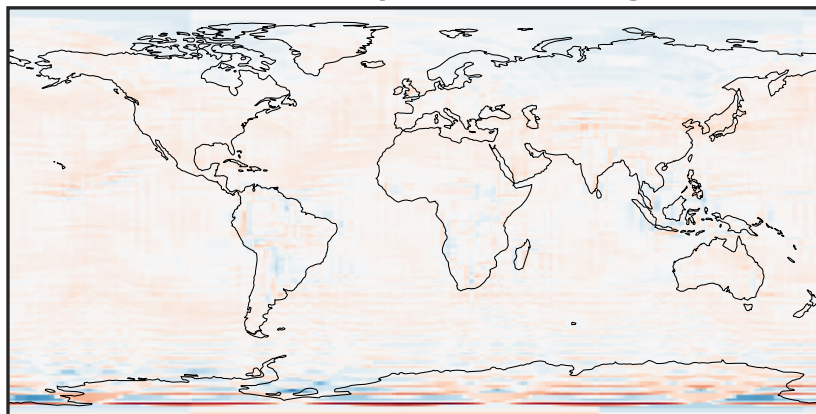
-0.015 0.000 0.015
ppb

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



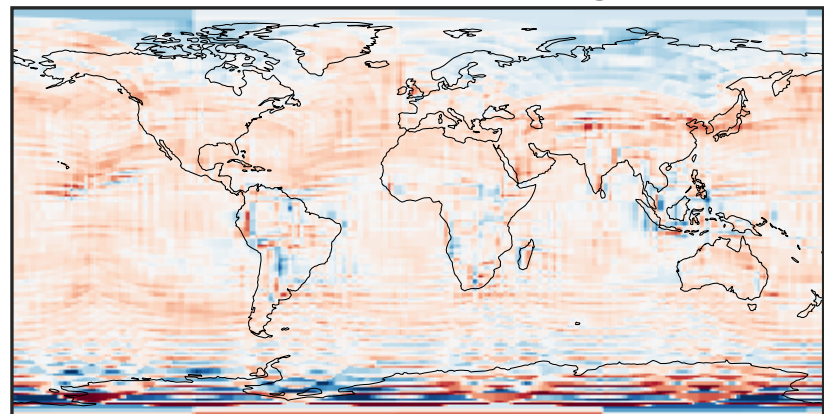
-0.001 0.000 0.001
ppb

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



0.130 0.565 1.000 4.353 7.706
unitless

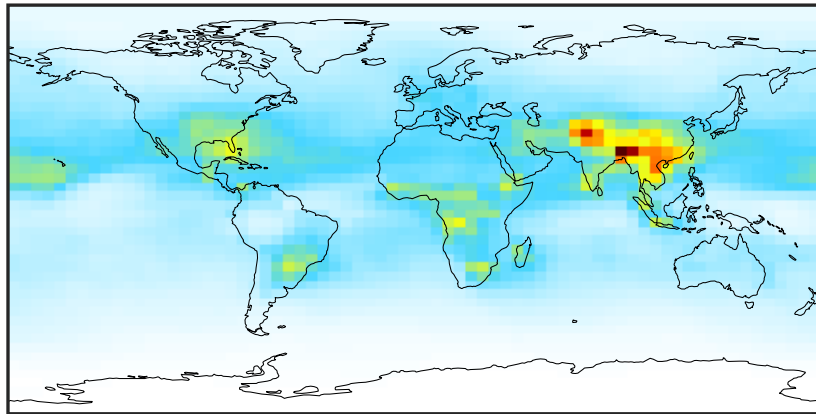
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

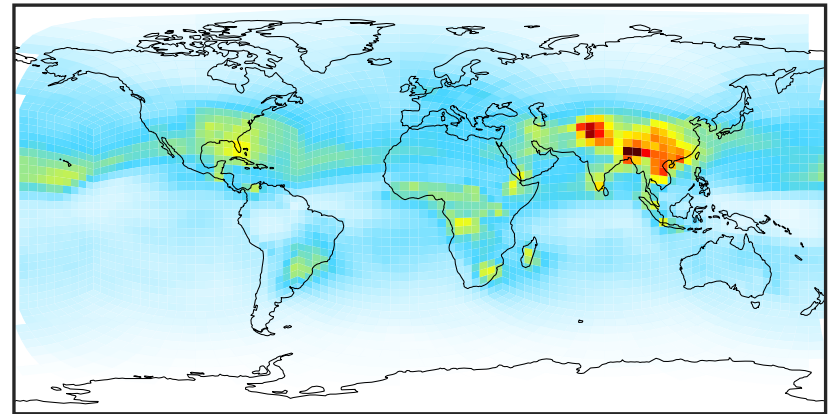
SpeciesConcVW_NO2 (Apr2019)

GCC_14.2.0 (Ref)
4.0x5.0



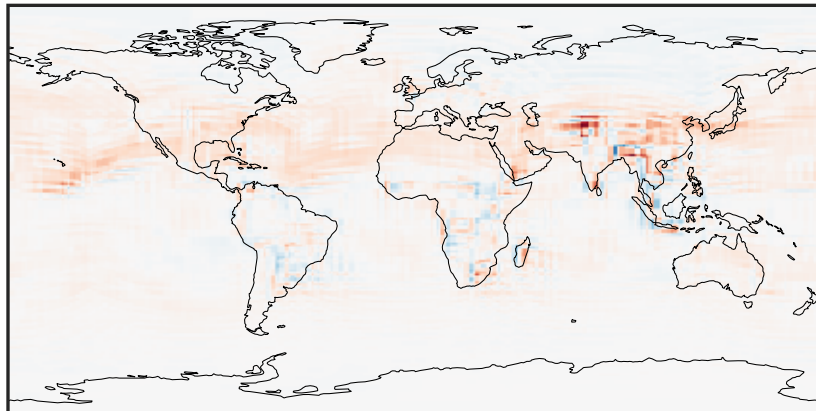
0.0002 0.0403 0.0805 0.1208 0.1613
ppb

GCHP_14.2.0 (Dev)
c24



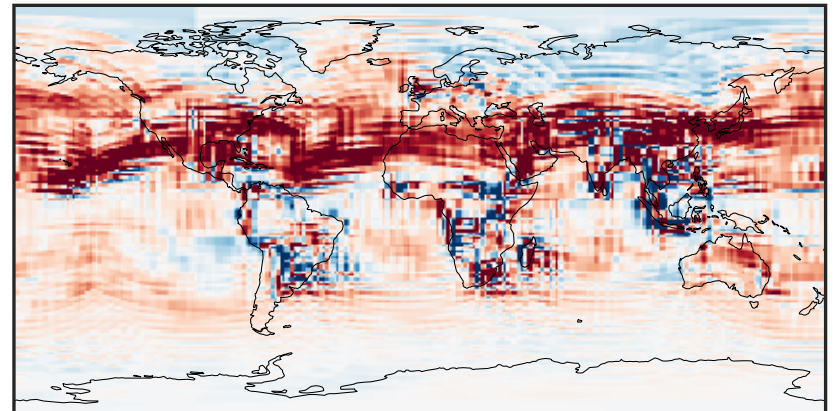
0.0002 0.0403 0.0805 0.1208 0.1613
ppb

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



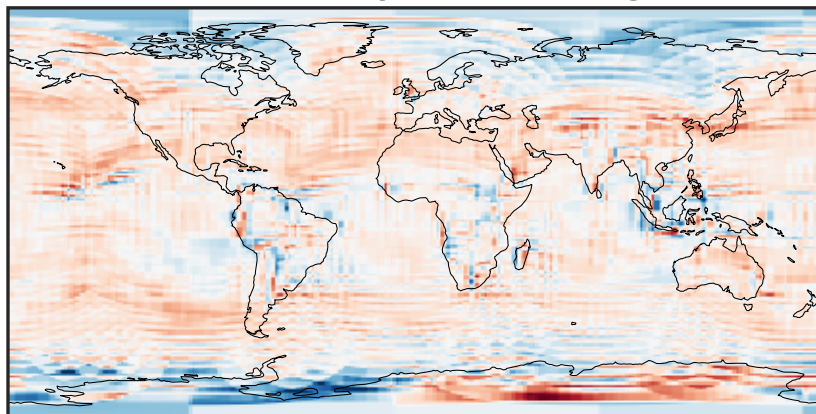
-0.025 0.000 0.025
ppb

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



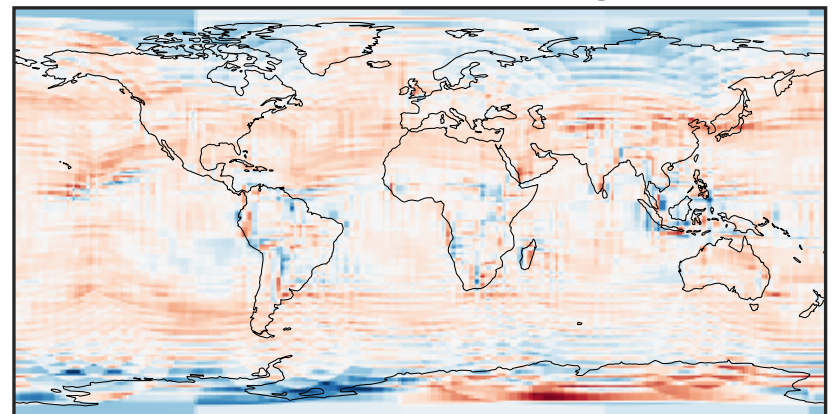
-0.004 0.000 0.004
ppb

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



0.521 0.761 1.000 1.459 1.919
unitless

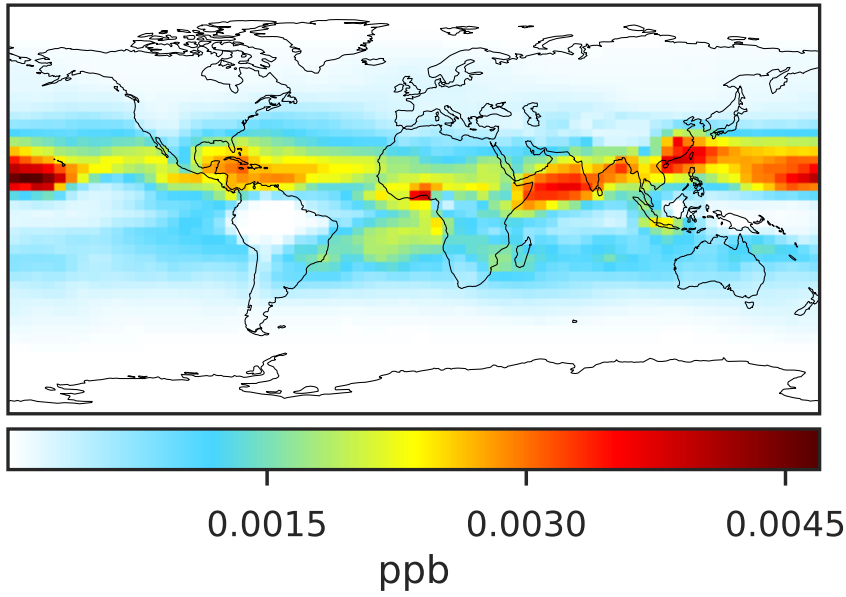
Ratio (1x1.25)
Dev/Ref, Fixed Range



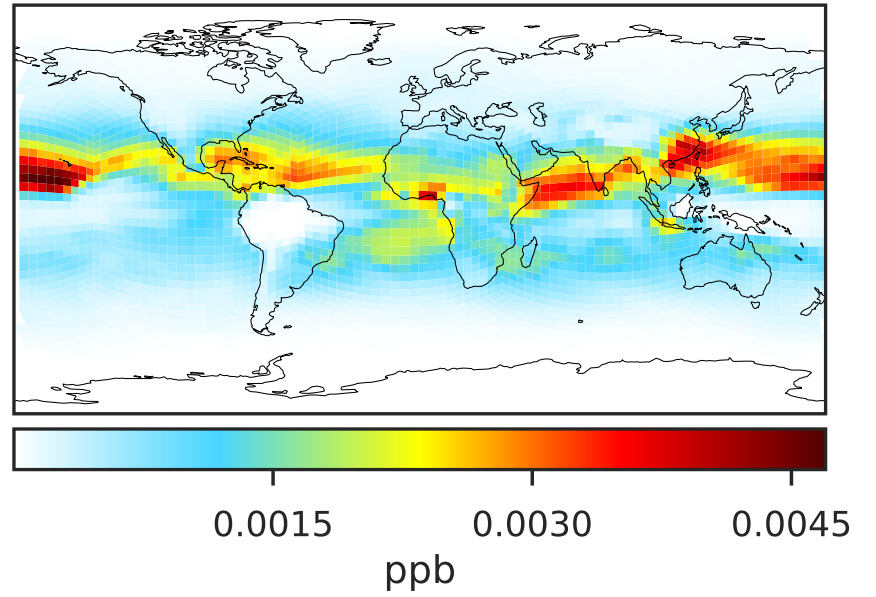
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVW_NO3 (Apr2019)

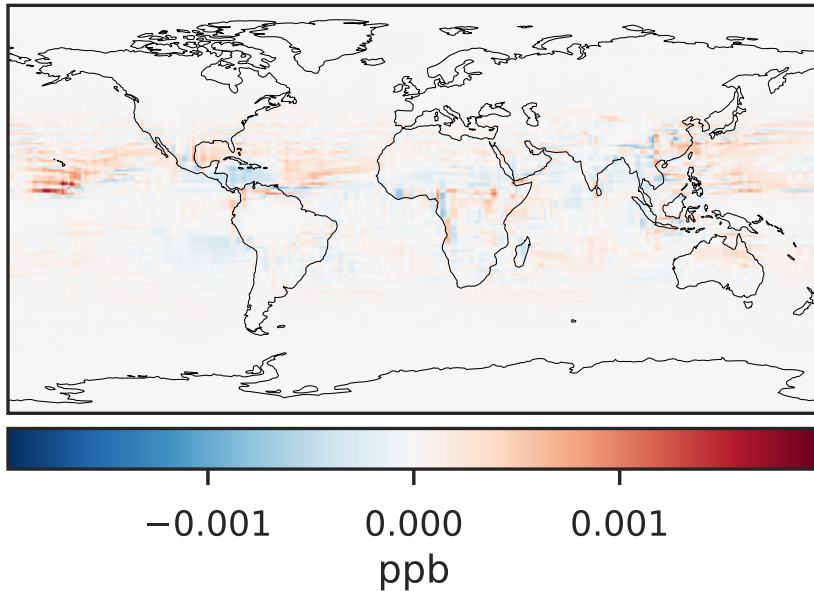
GCC_14.2.0 (Ref)
4.0x5.0



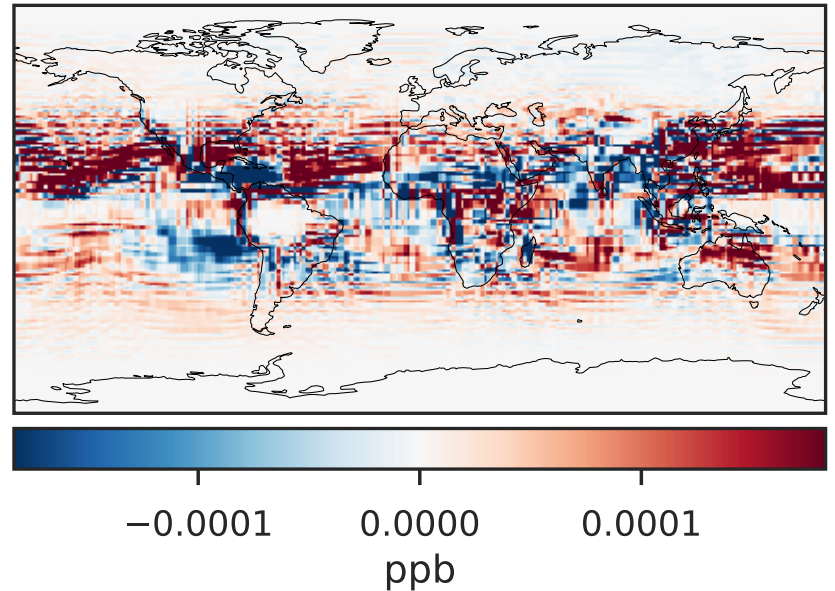
GCHP_14.2.0 (Dev)
c24



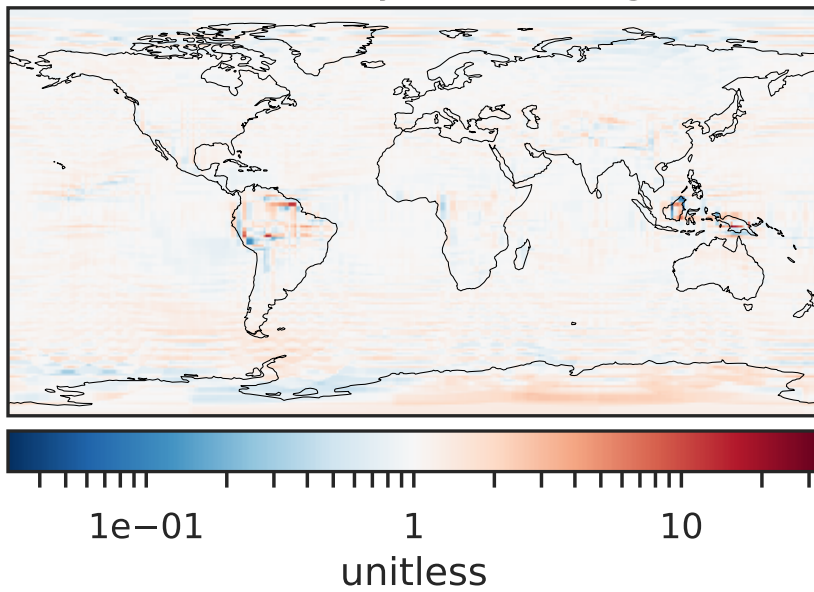
Difference (1x1.25)
Dev - Ref, Dynamic Range



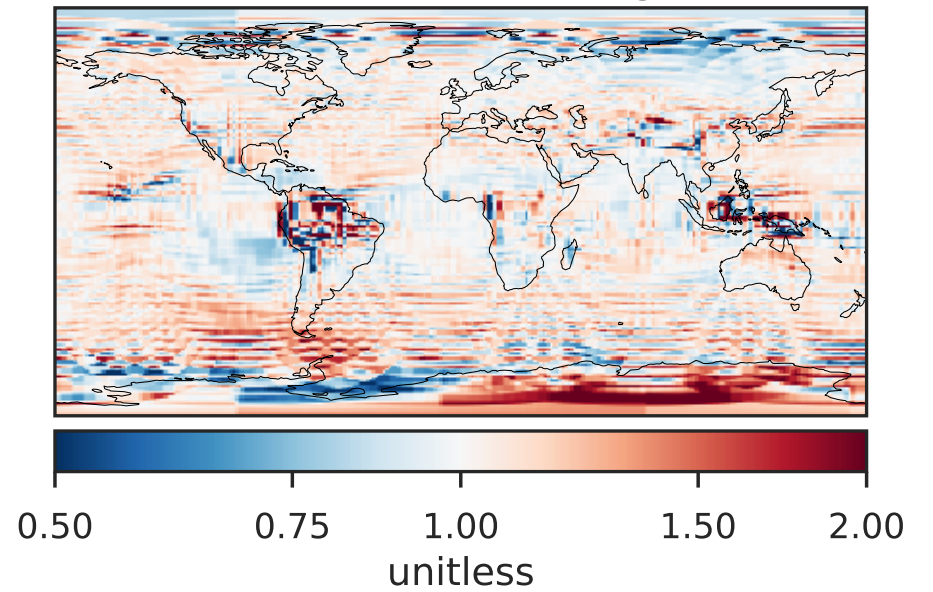
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

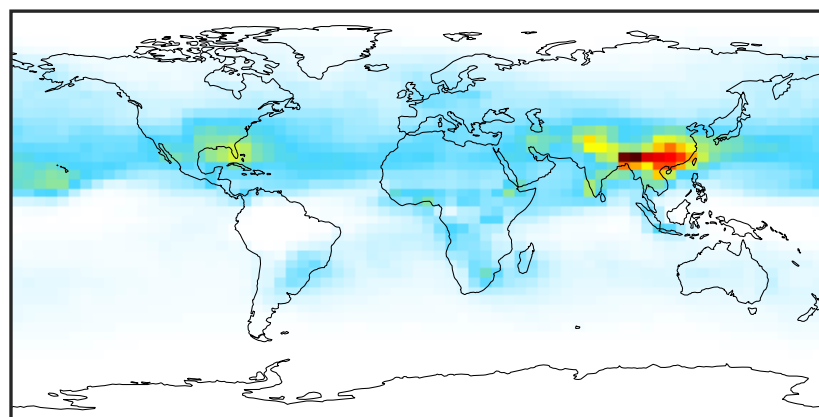


Ratio (1x1.25)
Dev/Ref, Fixed Range



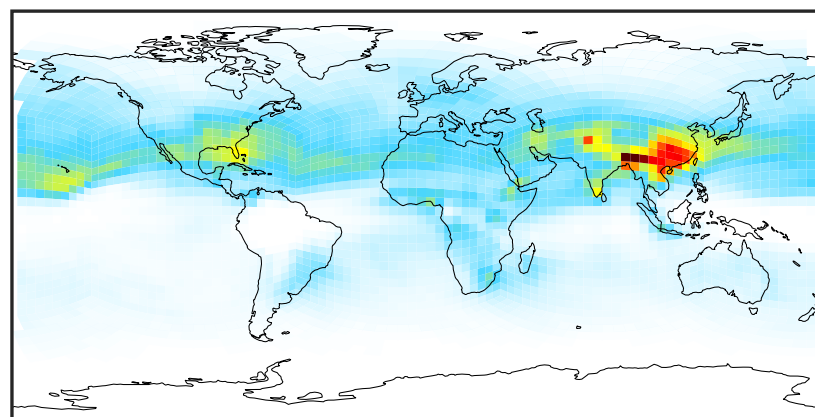
SpeciesConcVV_N2O5 (Apr2019)

GCC_14.2.0 (Ref)
4.0x5.0



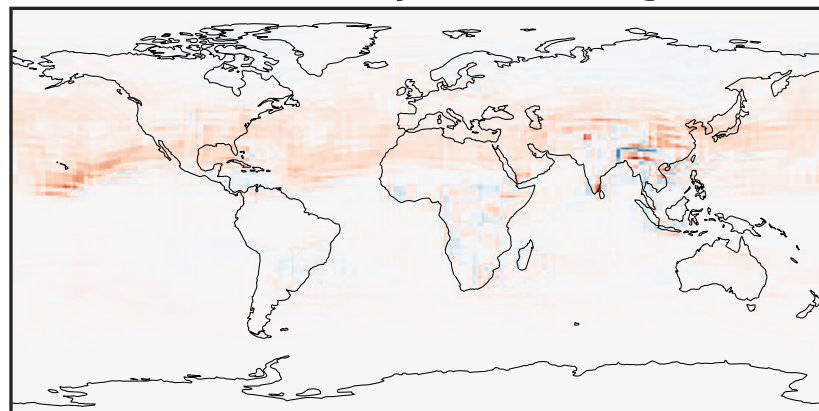
0.005 0.010 0.015
ppb

GCHP_14.2.0 (Dev)
c24



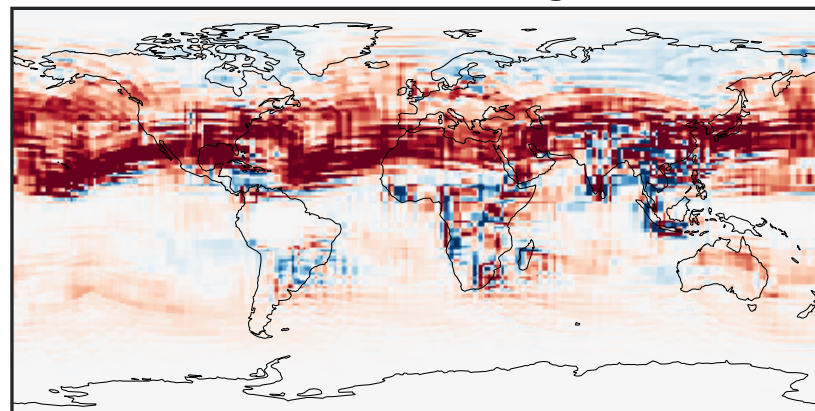
0.005 0.010 0.015
ppb

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



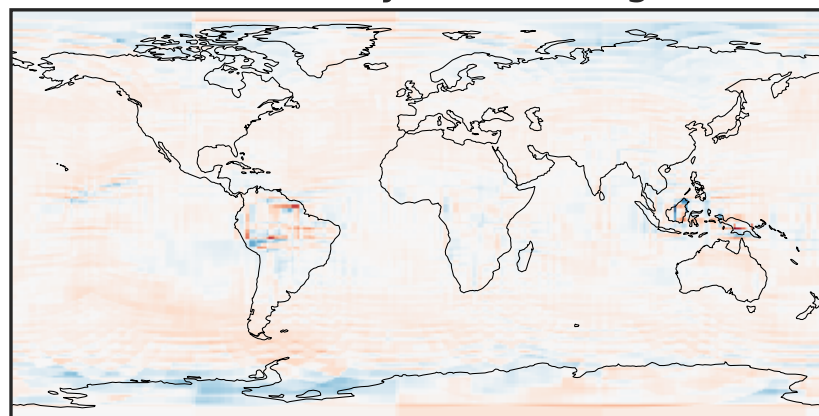
-0.004 0.000 0.004
ppb

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



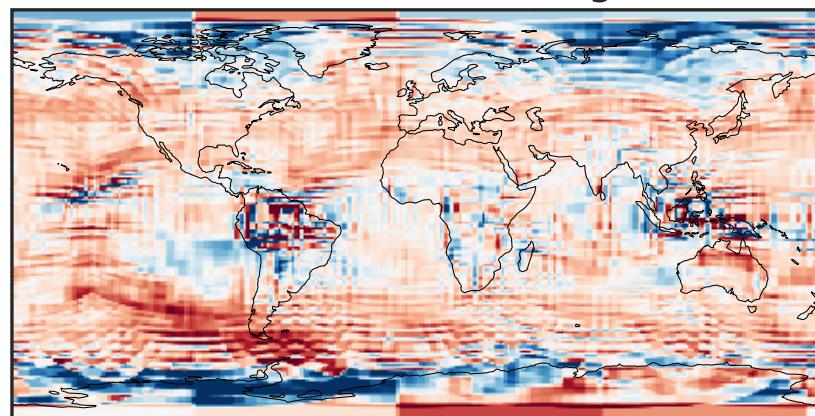
-0.0005 0.0000 0.0005
ppb

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



1e-01 1 10
unitless

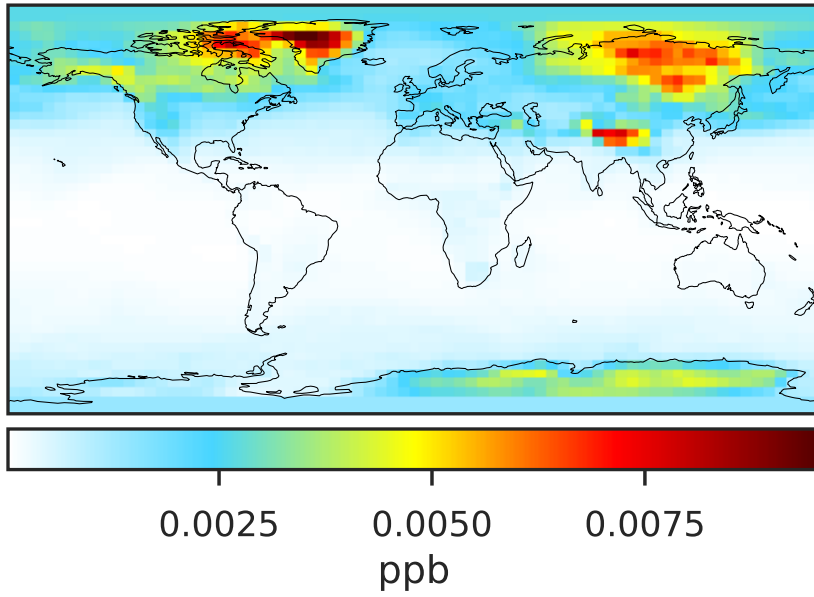
Ratio (1x1.25)
Dev/Ref, Fixed Range



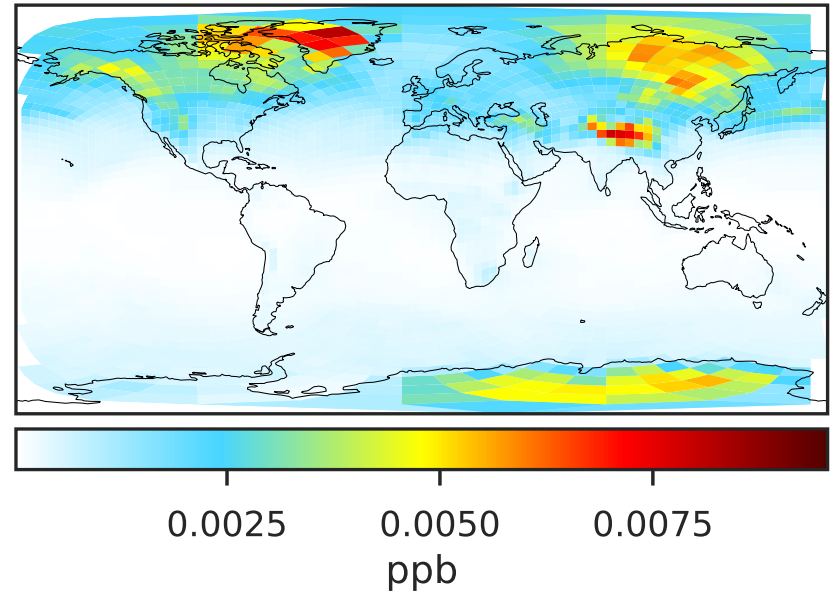
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVW_MPN (Apr2019)

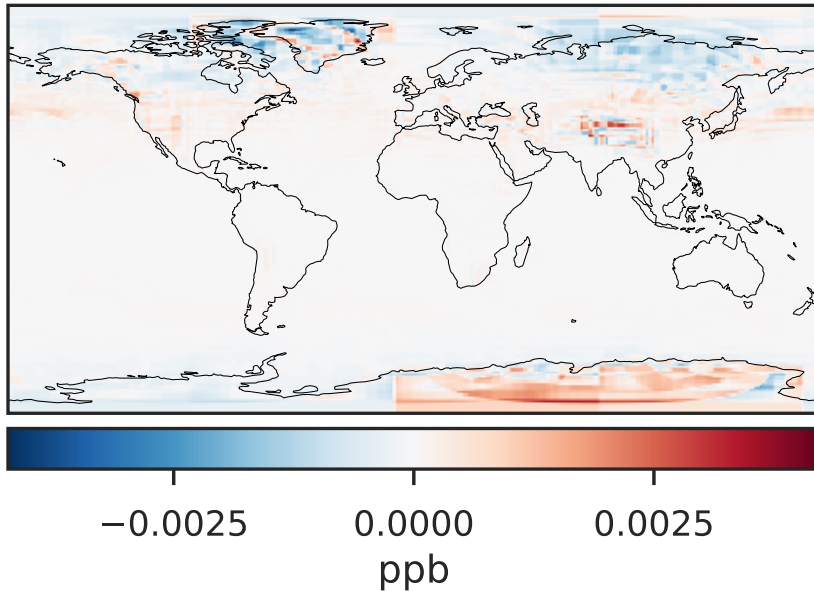
GCC_14.2.0 (Ref)
4.0x5.0



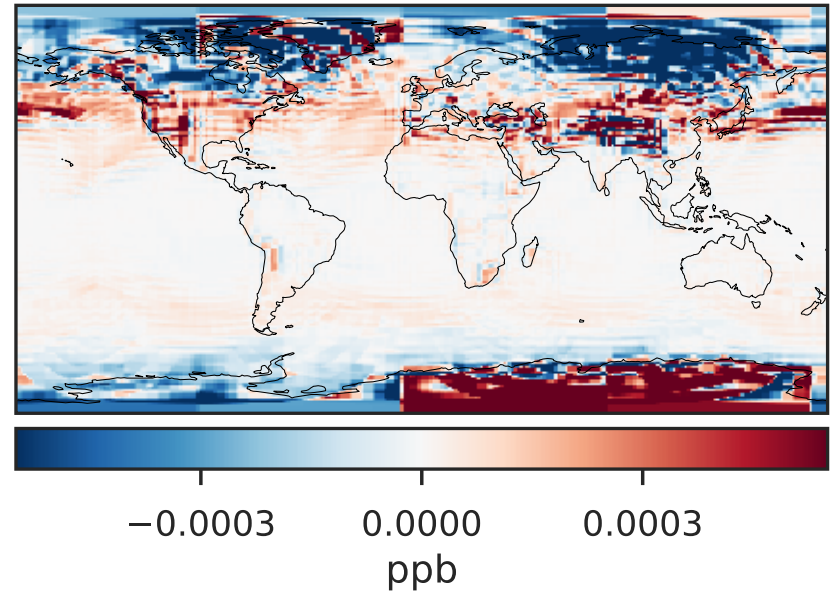
GCHP_14.2.0 (Dev)
c24



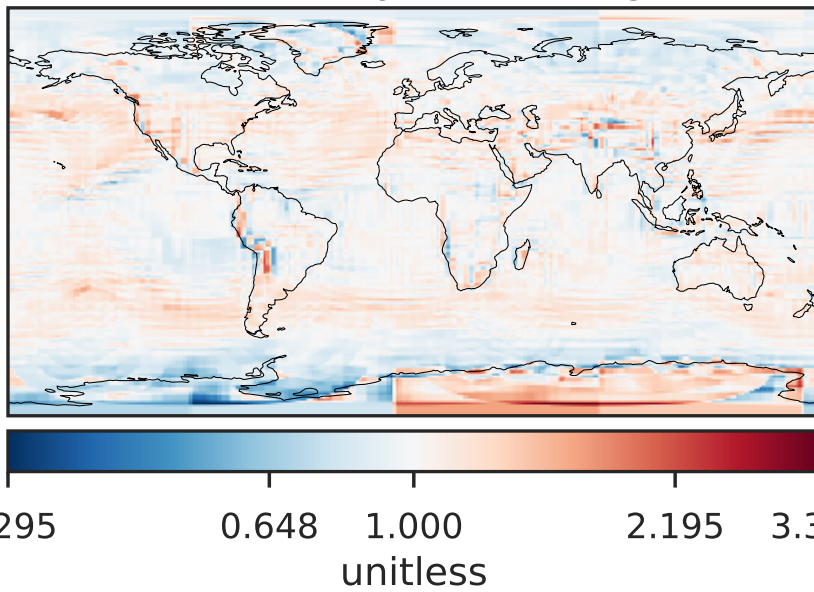
Difference (1x1.25)
Dev - Ref, Dynamic Range



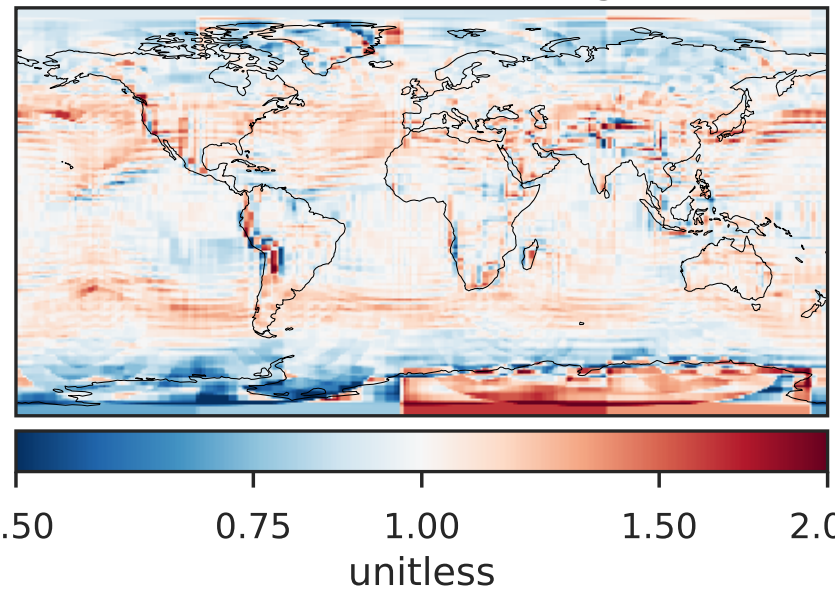
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

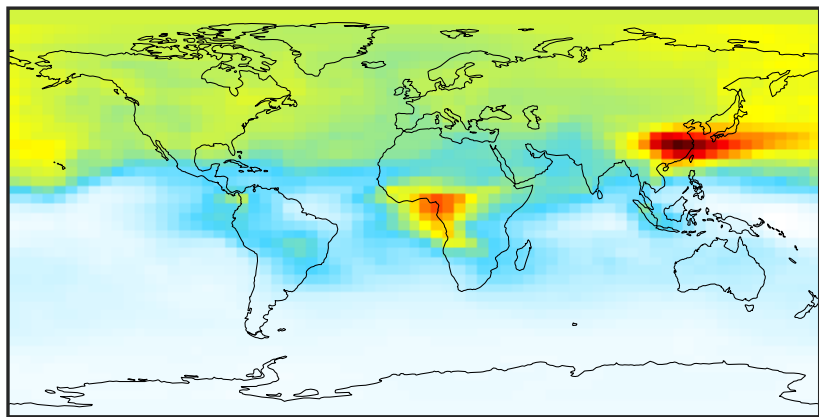


Ratio (1x1.25)
Dev/Ref, Fixed Range



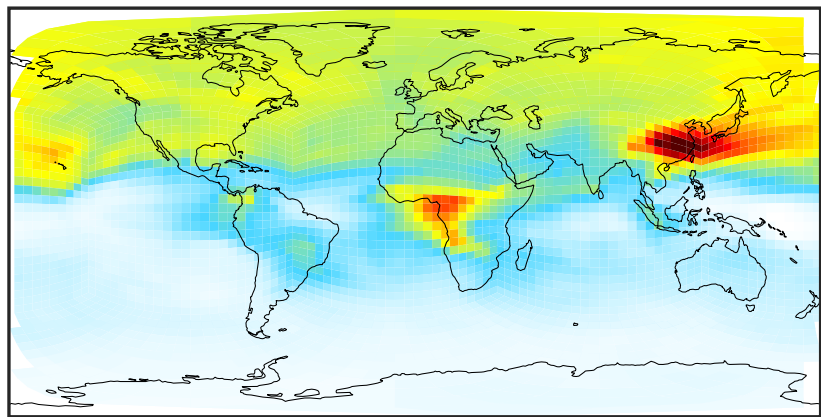
SpeciesConcVV_PAN (Apr2019)

GCC_14.2.0 (Ref)
4.0x5.0



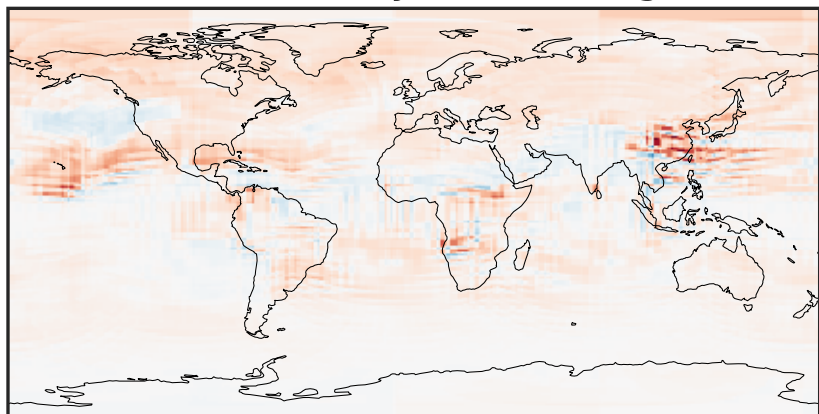
0.0059 0.1390 0.2780 0.4170 0.5619
ppb

GCHP_14.2.0 (Dev)
c24



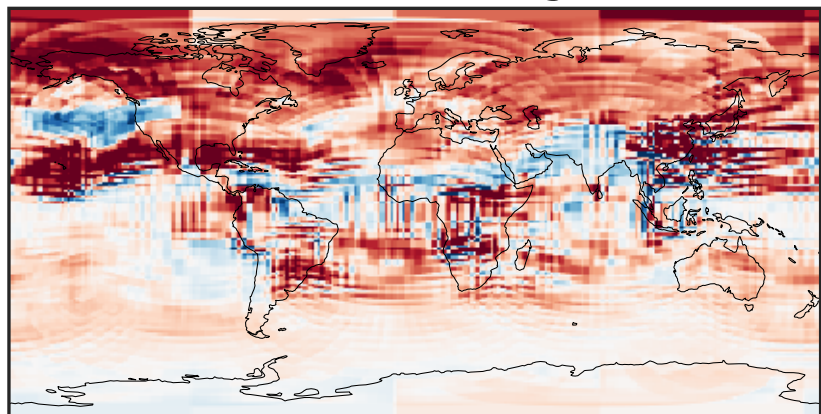
0.0059 0.1390 0.2780 0.4170 0.5619
ppb

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



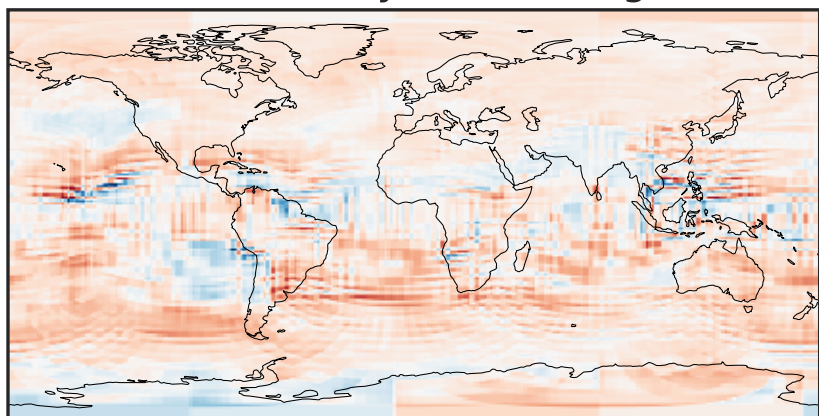
-0.1270 -0.0635 0.0000 0.0635 0.1270
ppb

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



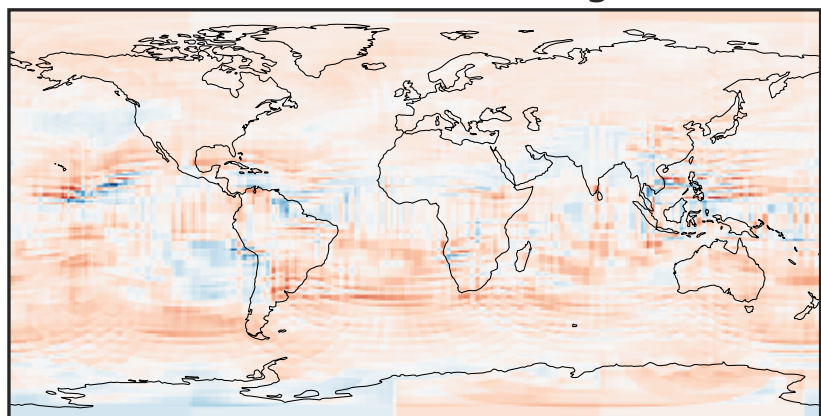
-0.015 0.000 0.015
ppb

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



0.577 0.788 1.000 1.367 1.733
unitless

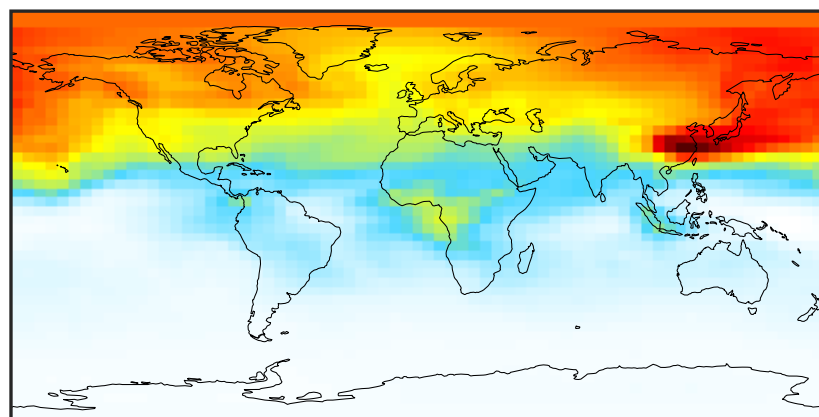
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

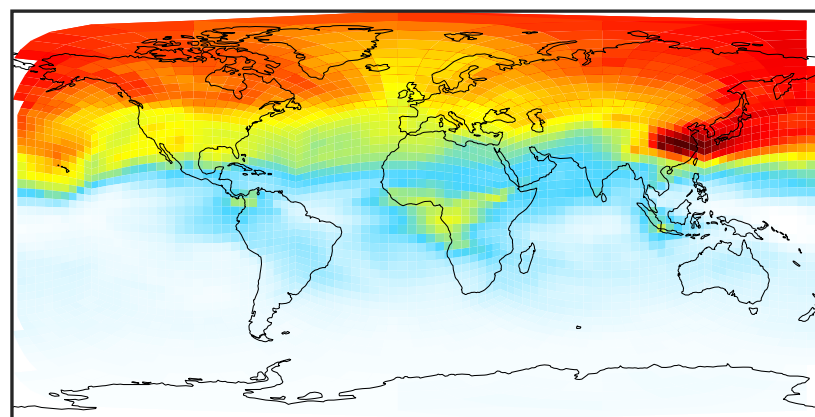
SpeciesConcVV_PPN (Apr2019)

GCC_14.2.0 (Ref)
4.0x5.0



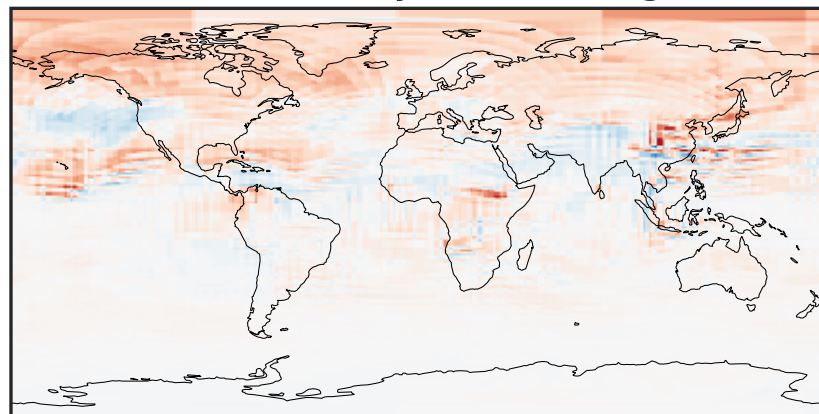
0.025 0.050 0.075
ppb

GCHP_14.2.0 (Dev)
c24



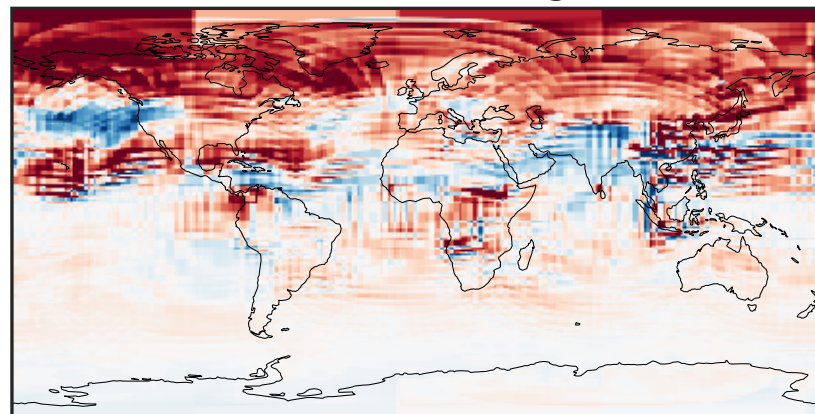
0.025 0.050 0.075
ppb

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



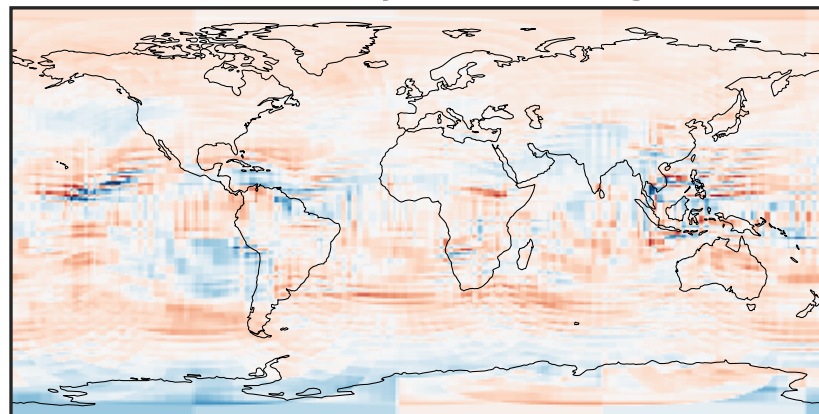
-0.01 0.00 0.01
ppb

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



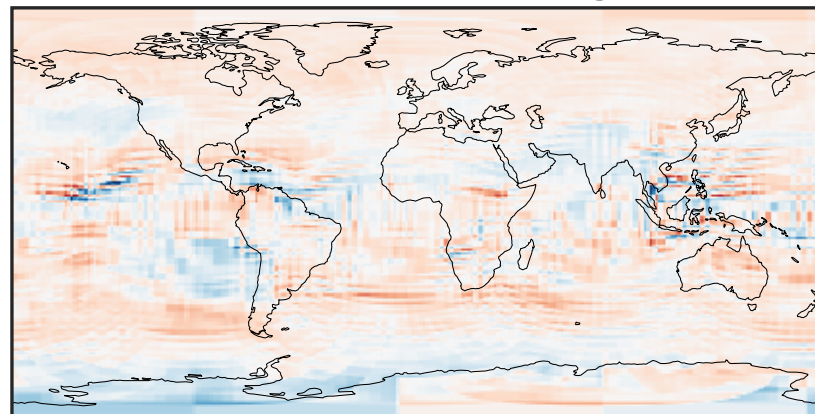
-0.003 0.000 0.003
ppb

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



0.544 0.772 1.000 1.420 1.840
unitless

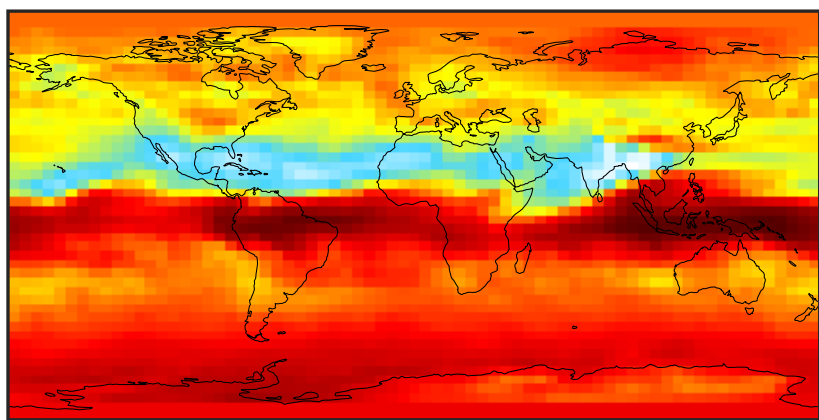
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVW_N2O (Apr2019)

GCC_14.2.0 (Ref)
4.0x5.0

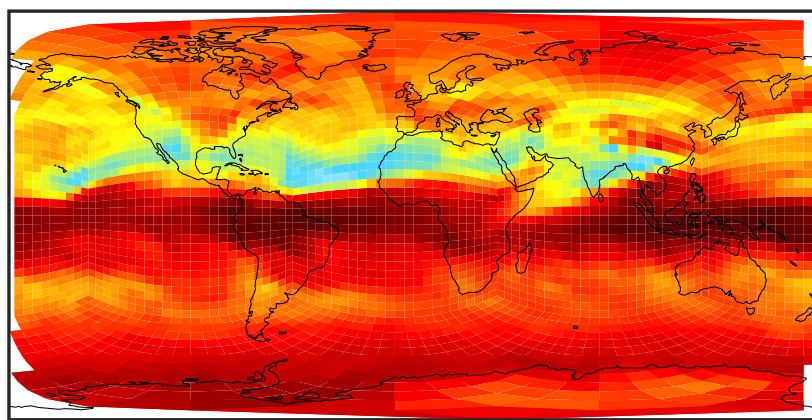


0.8

339.0

ppb

GCHP_14.2.0 (Dev)
c24

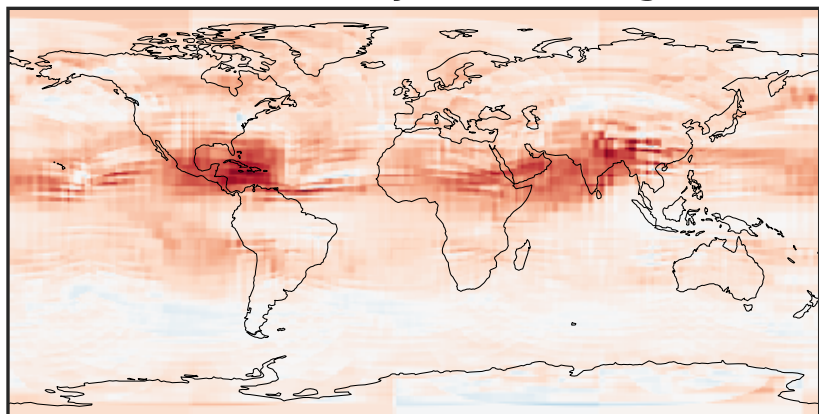


0.8

339.0

ppb

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



-0.4211

-0.2106

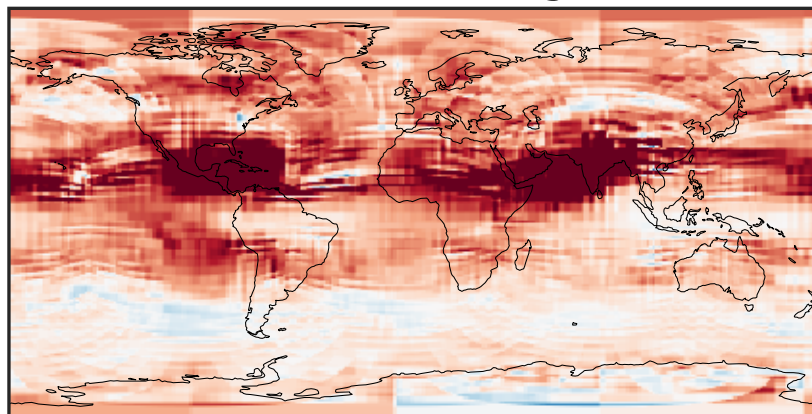
0.0000

0.2106

0.4211

ppb

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



-0.1805

-0.0903

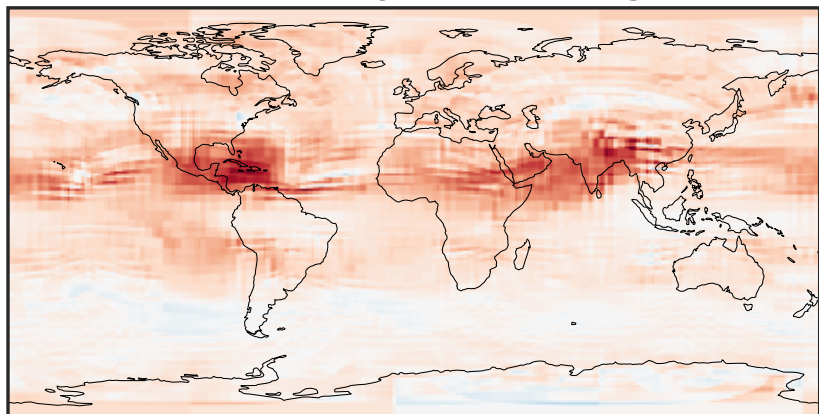
0.0000

0.0903

0.1805

ppb

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



0.998723

0.999362

1.000000

1.000639

1.001278

unitless

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



0.50

0.75

1.00

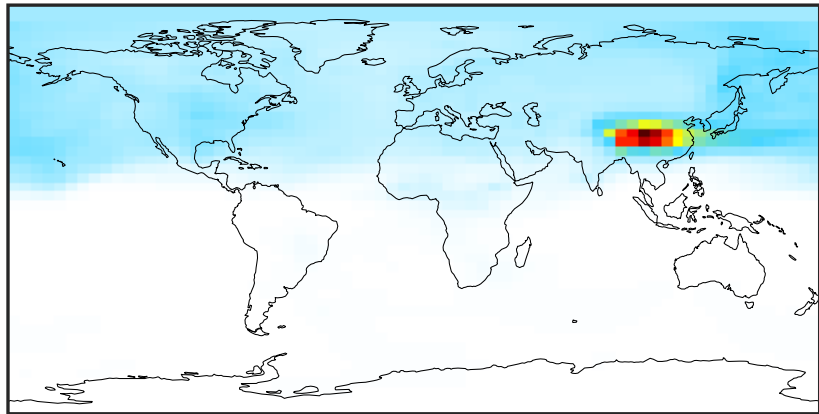
1.50

2.00

unitless

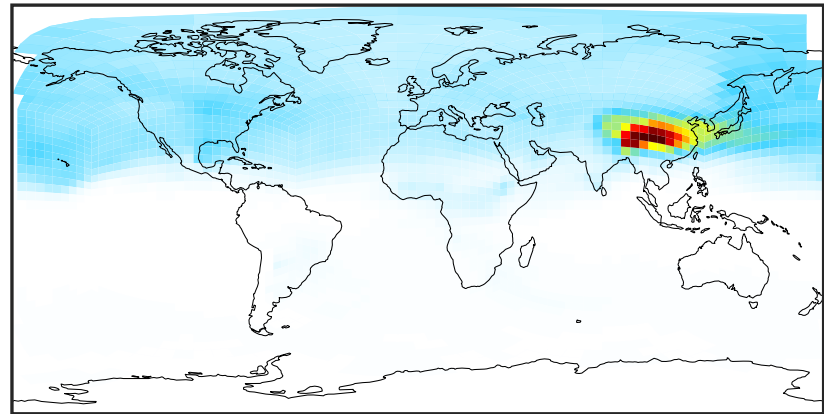
SpeciesConcVV_NHx (Apr2019)

GCC_14.2.0 (Ref)
4.0x5.0



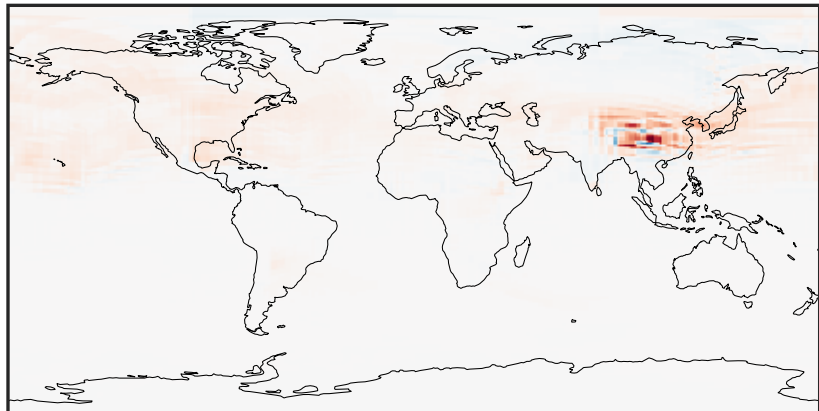
0.000 0.509 1.018 1.526 2.035
ppb

GCHP_14.2.0 (Dev)
c24



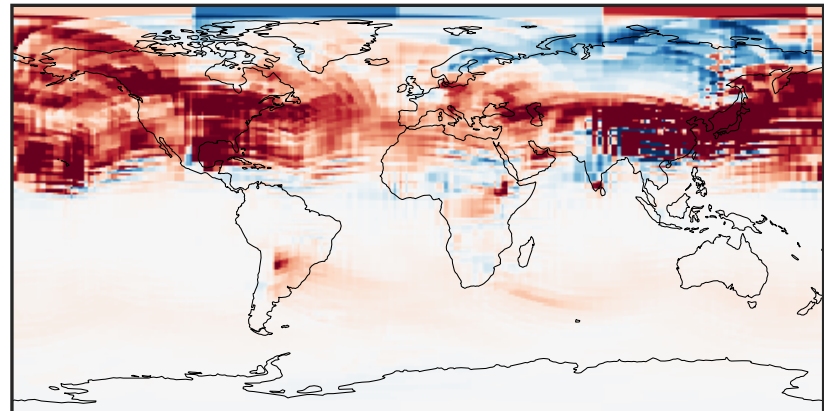
0.000 0.509 1.018 1.526 2.035
ppb

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



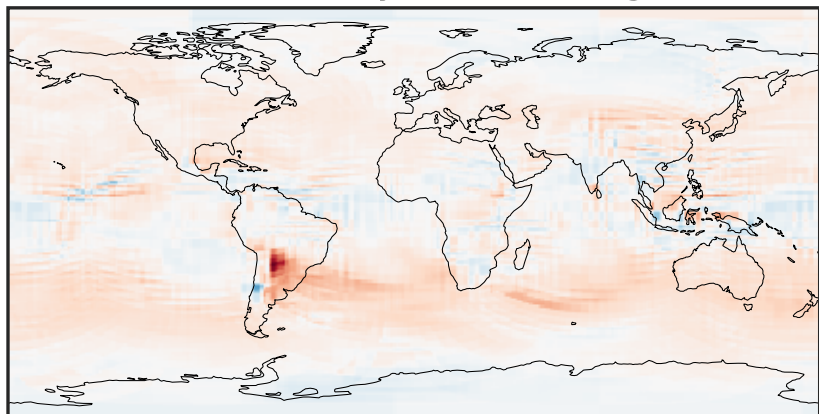
-0.944 -0.472 0.000 0.472 0.944
ppb

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



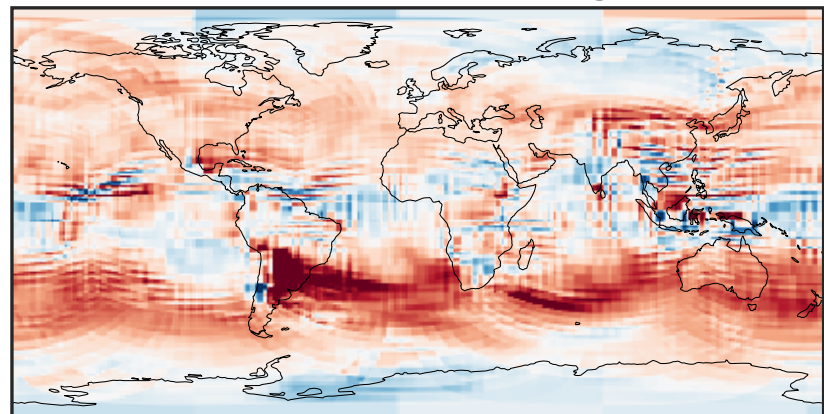
-0.0644 -0.0322 0.0000 0.0322 0.0644
ppb

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



1e-01 1 10
unitless

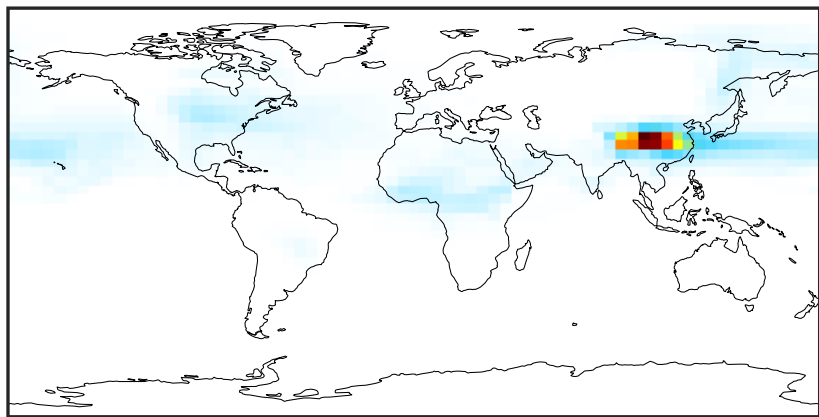
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

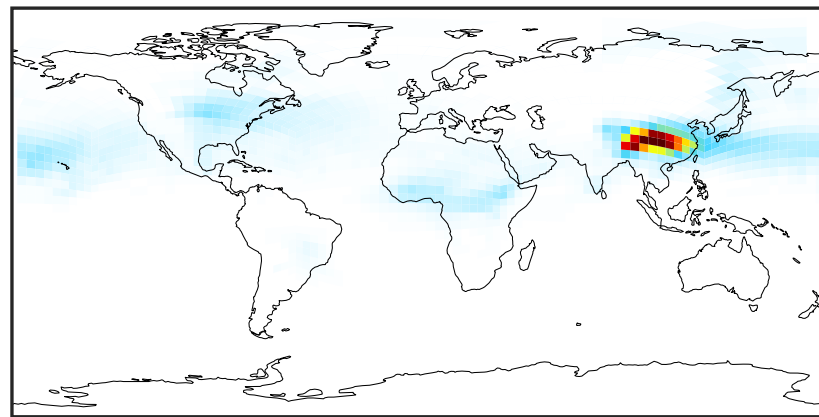
SpeciesConcVV_NH3 (Apr2019)

GCC_14.2.0 (Ref)
4.0x5.0



0.000 0.243 0.486 0.729 0.972
ppb

GCHP_14.2.0 (Dev)
c24



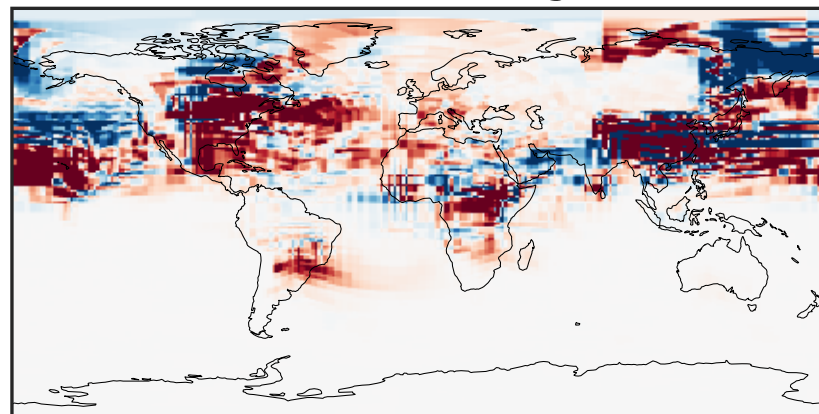
0.000 0.243 0.486 0.729 0.972
ppb

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



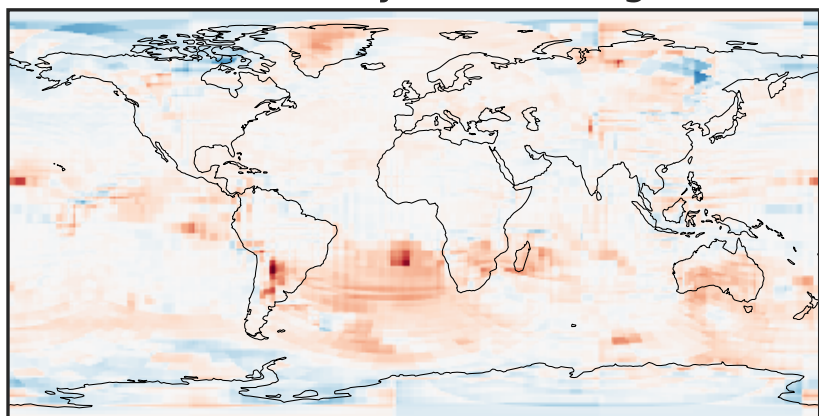
-0.650 -0.325 0.000 0.325 0.650
ppb

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



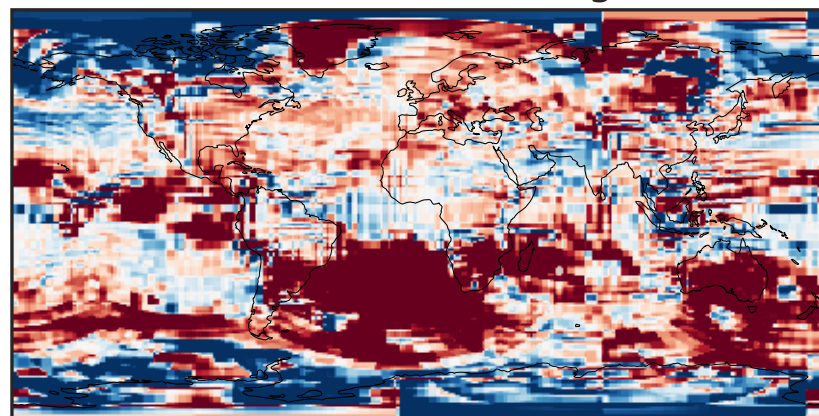
-0.005 0.000 0.005
ppb

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



1e-02 1e-01 1 10 100
unitless

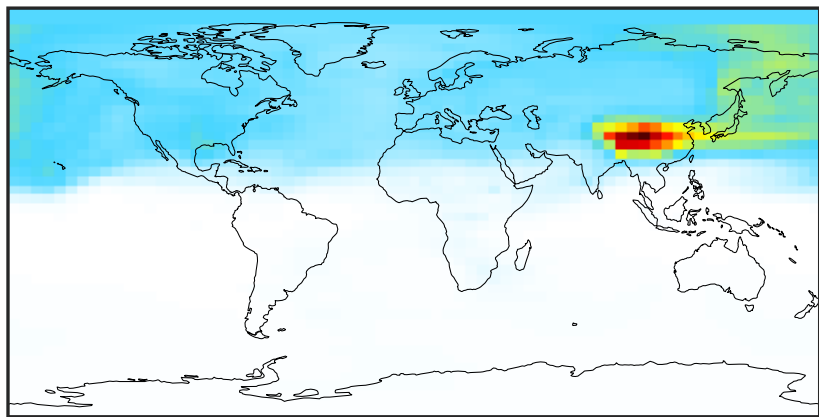
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

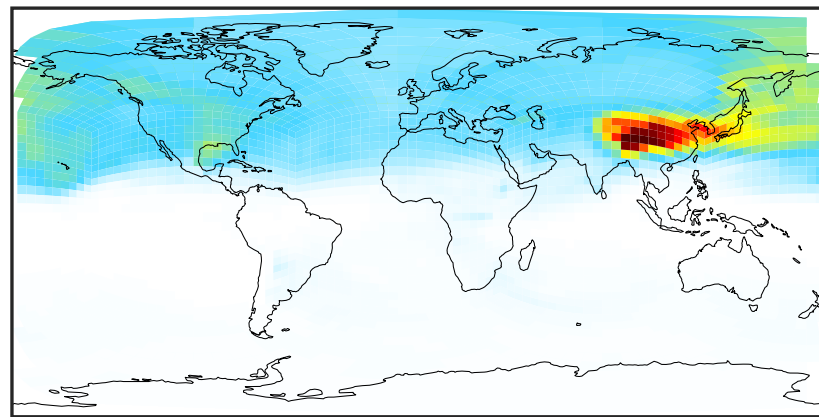
SpeciesConcVV_NH4 (Apr2019)

GCC_14.2.0 (Ref)
4.0x5.0



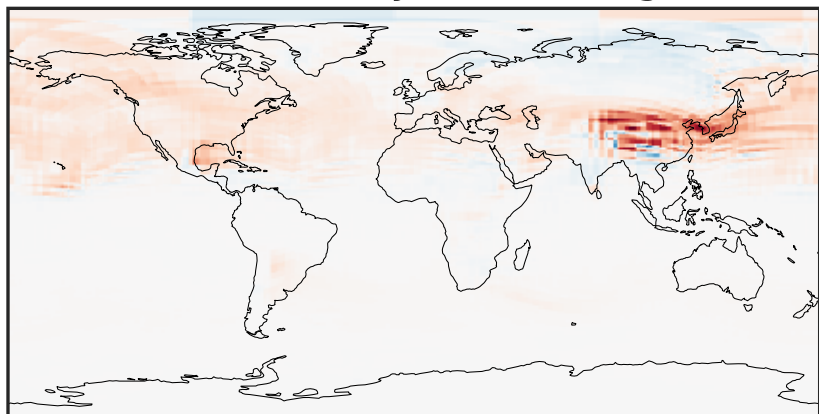
0.000 0.266 0.531 0.797 1.063
ppb

GCHP_14.2.0 (Dev)
c24



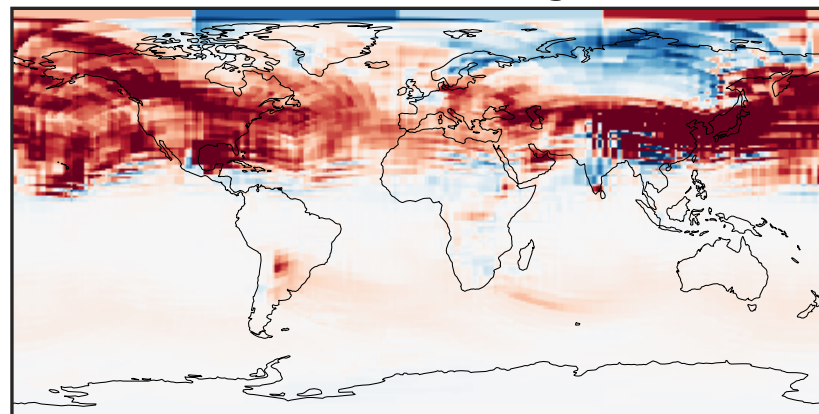
0.000 0.266 0.531 0.797 1.063
ppb

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



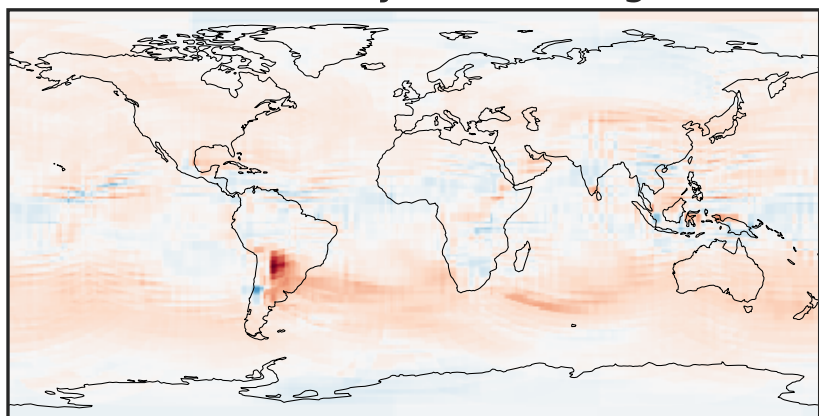
-0.3713 -0.1856 0.0000 0.1856 0.3713
ppb

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



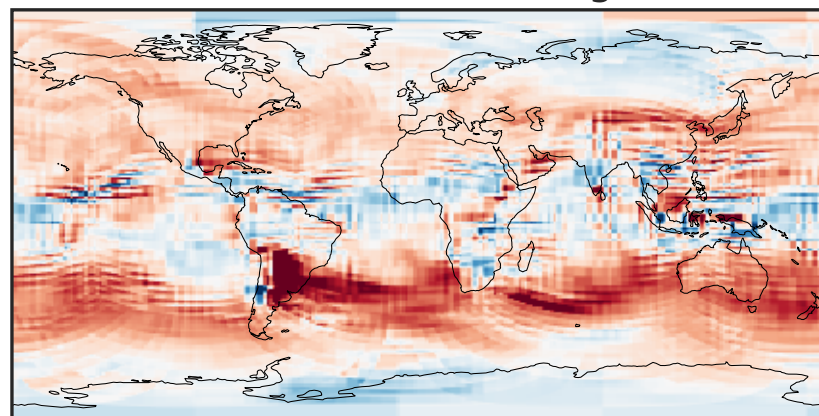
-0.0590 -0.0295 0.0000 0.0295 0.0590
ppb

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



0.104 0.552 1.000 5.323 9.646
unitless

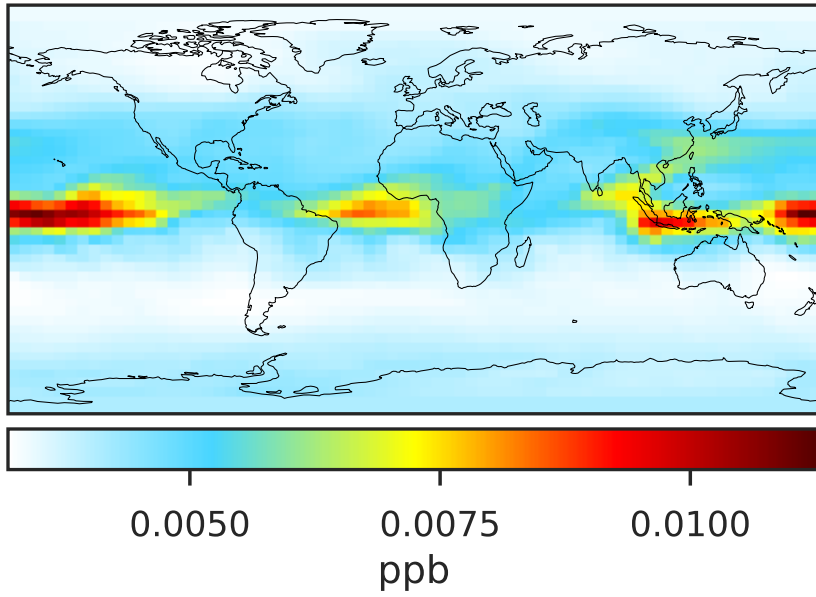
Ratio (1x1.25)
Dev/Ref, Fixed Range



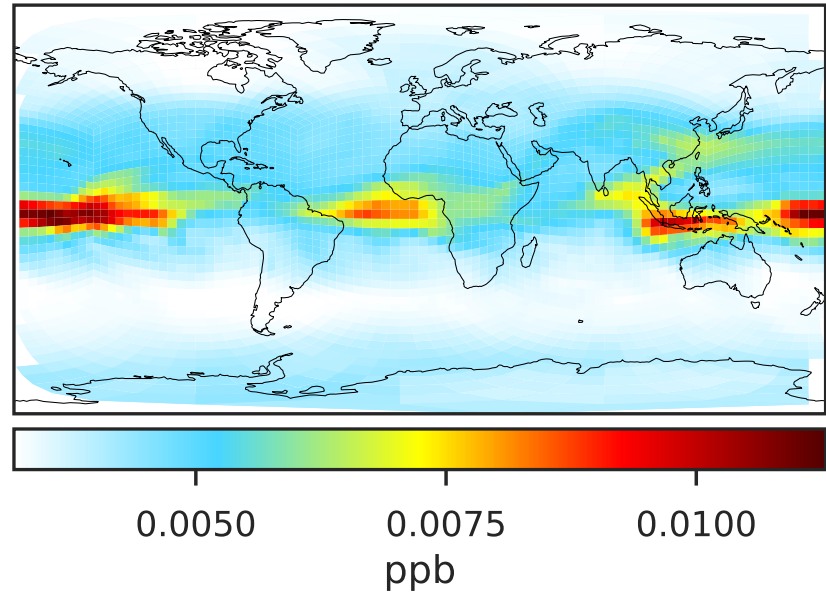
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_MENO3 (Apr2019)

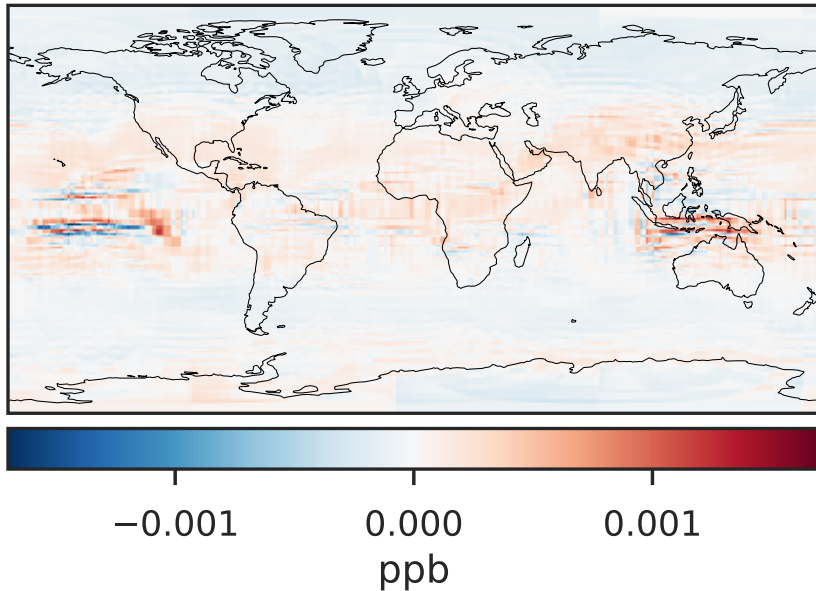
GCC_14.2.0 (Ref)
4.0x5.0



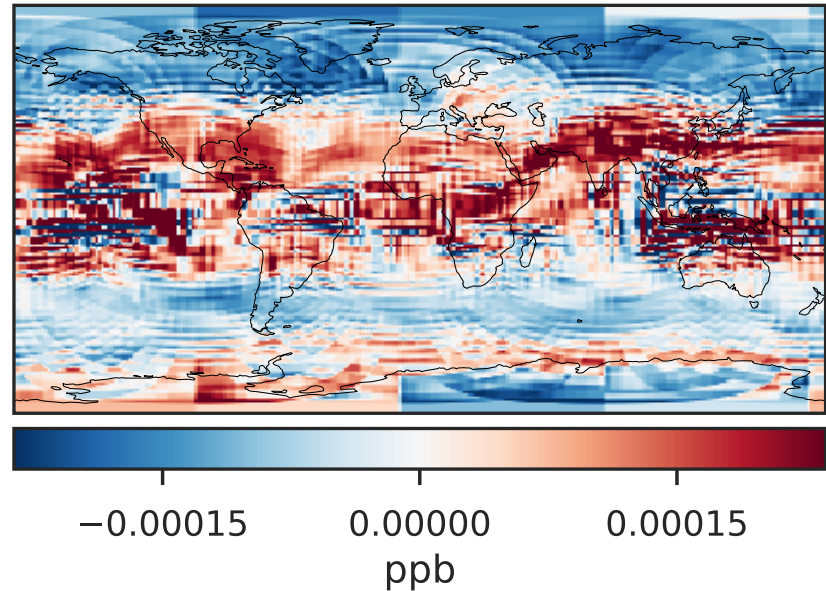
GCHP_14.2.0 (Dev)
c24



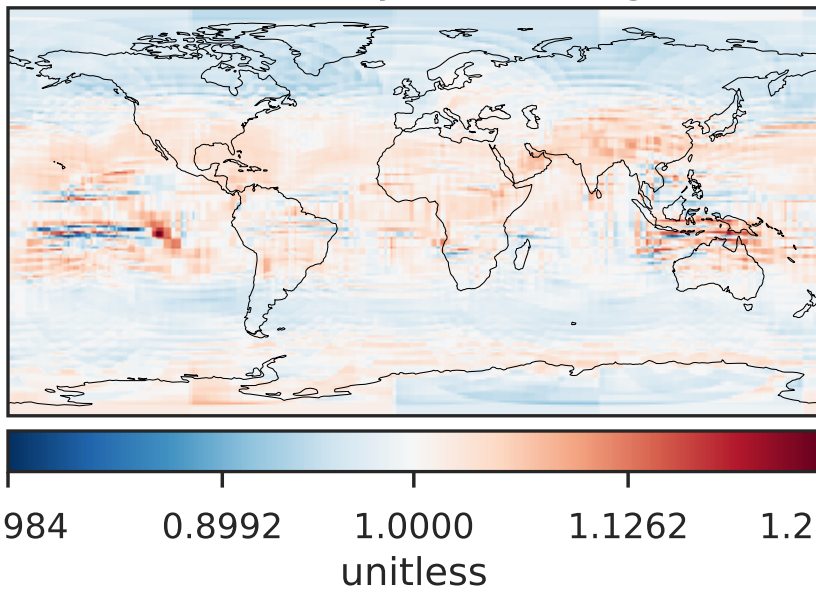
Difference (1x1.25)
Dev - Ref, Dynamic Range



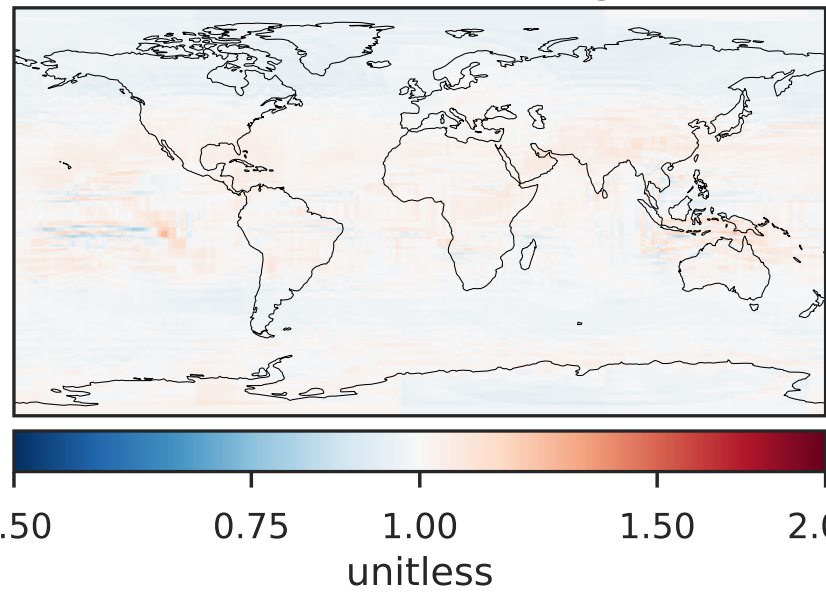
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

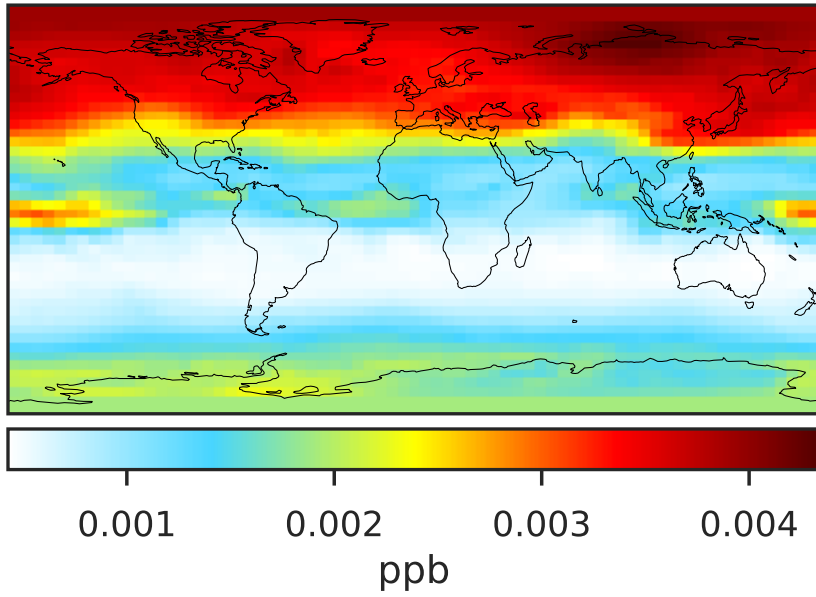


Ratio (1x1.25)
Dev/Ref, Fixed Range

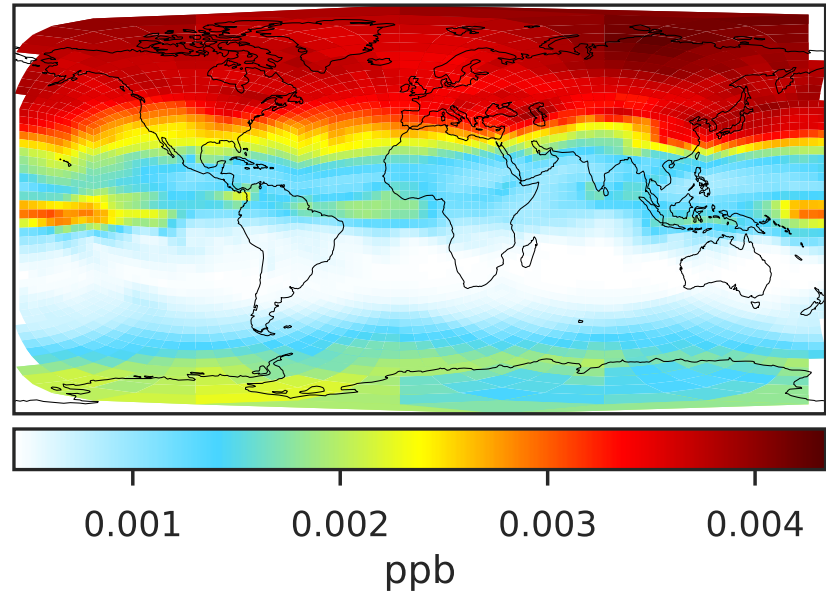


SpeciesConcVV_ETNO3 (Apr2019)

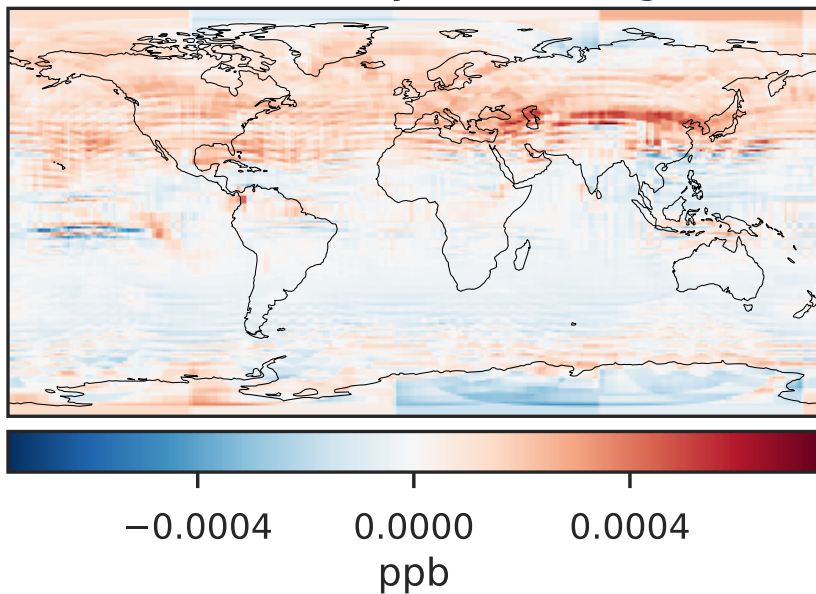
GCC_14.2.0 (Ref)
4.0x5.0



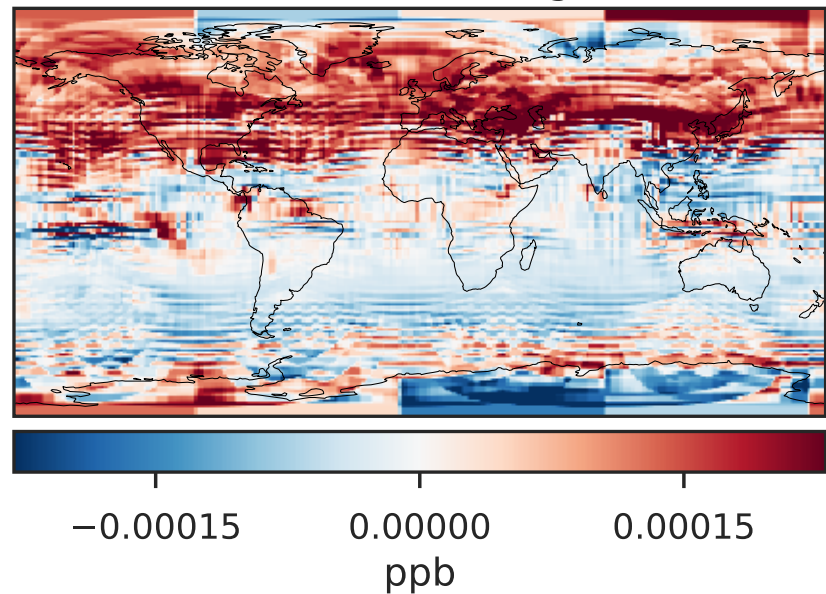
GCHP_14.2.0 (Dev)
c24



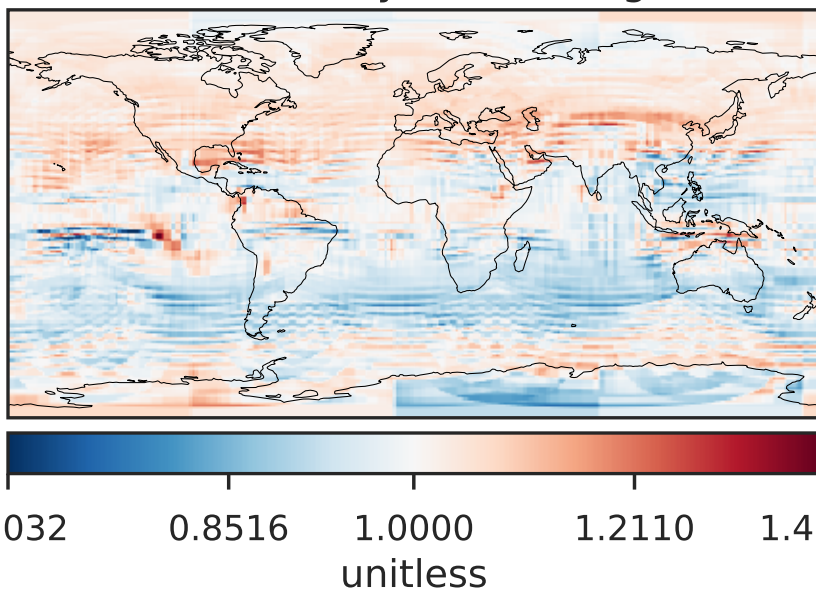
Difference (1x1.25)
Dev - Ref, Dynamic Range



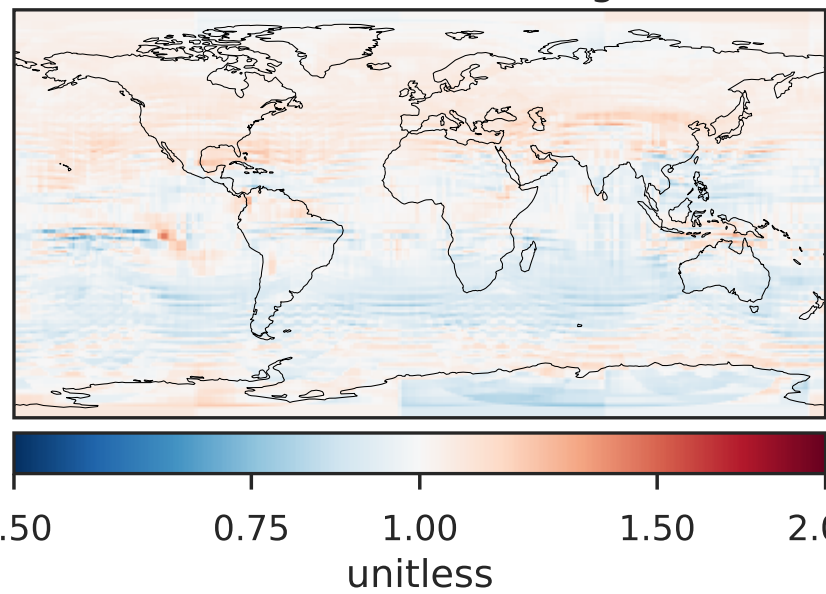
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

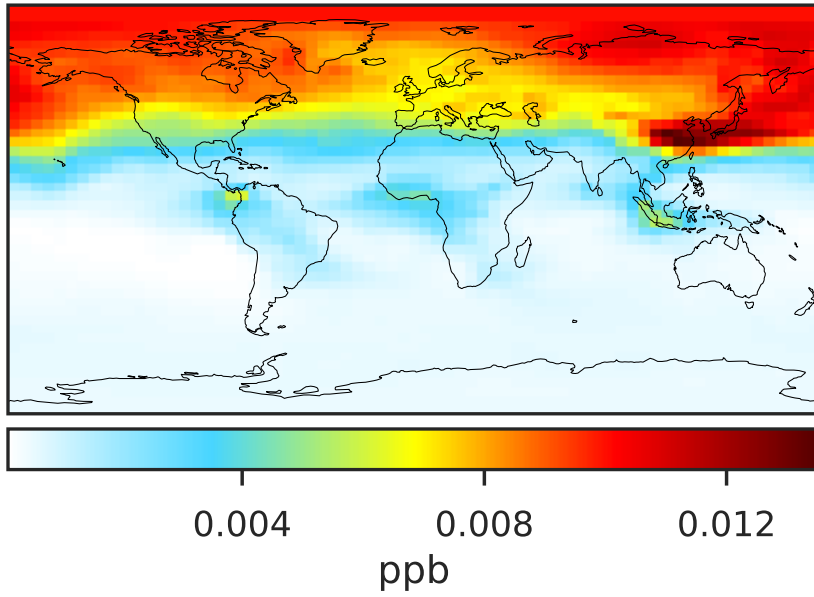


Ratio (1x1.25)
Dev/Ref, Fixed Range

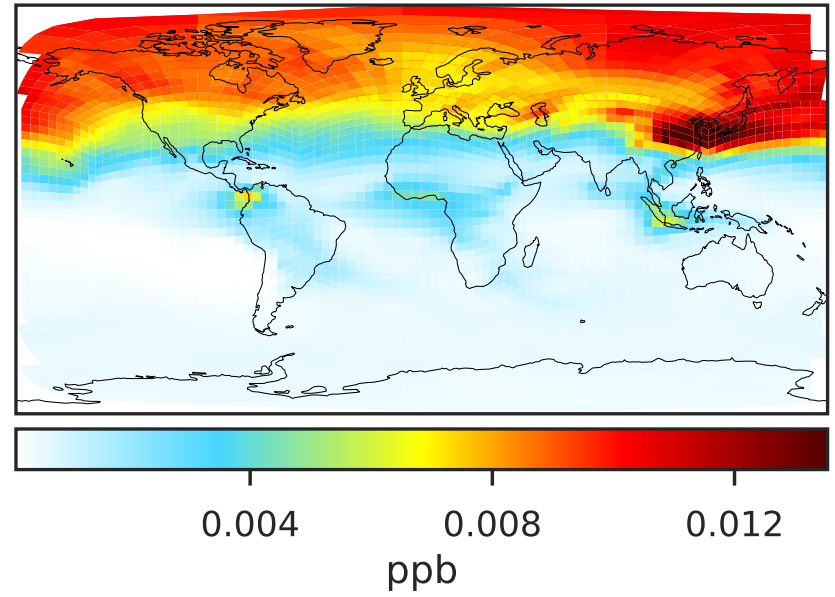


SpeciesConcVV_IPRNO3 (Apr2019)

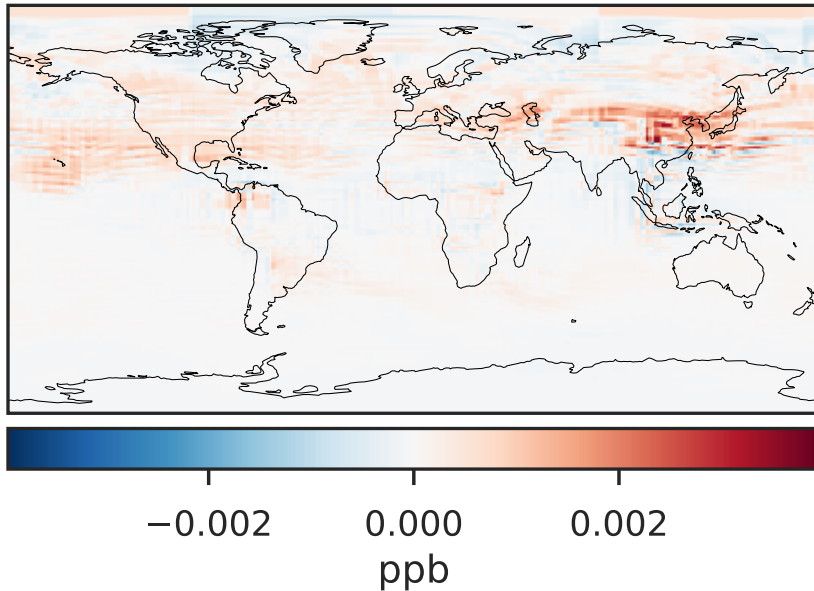
GCC_14.2.0 (Ref)
4.0x5.0



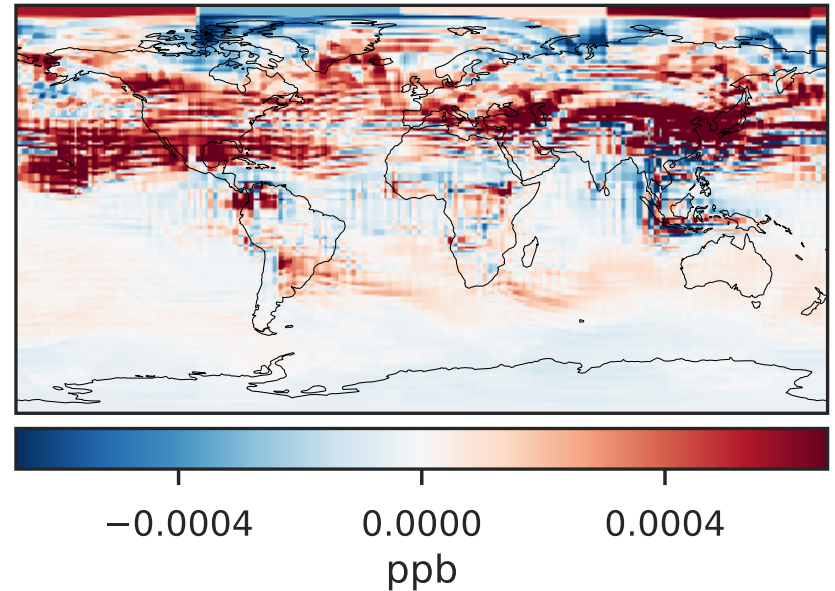
GCHP_14.2.0 (Dev)
c24



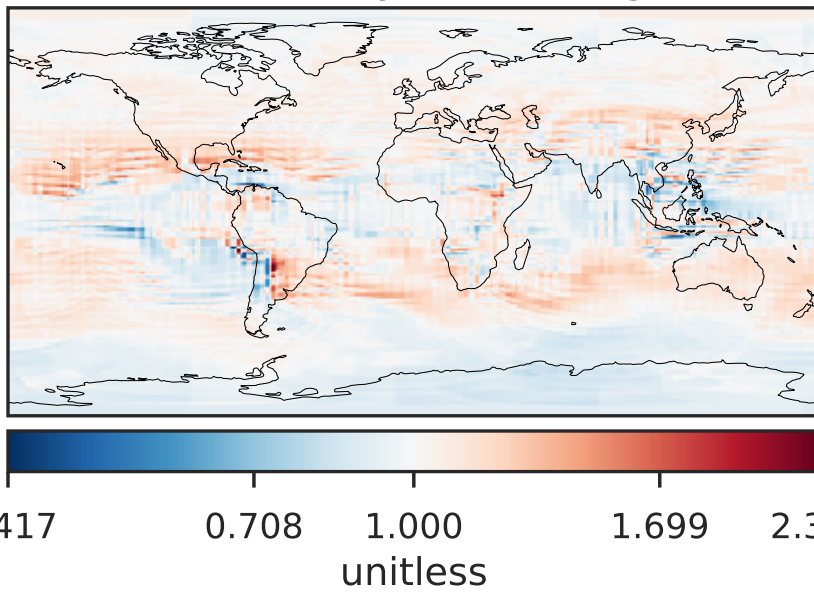
Difference (1x1.25)
Dev - Ref, Dynamic Range



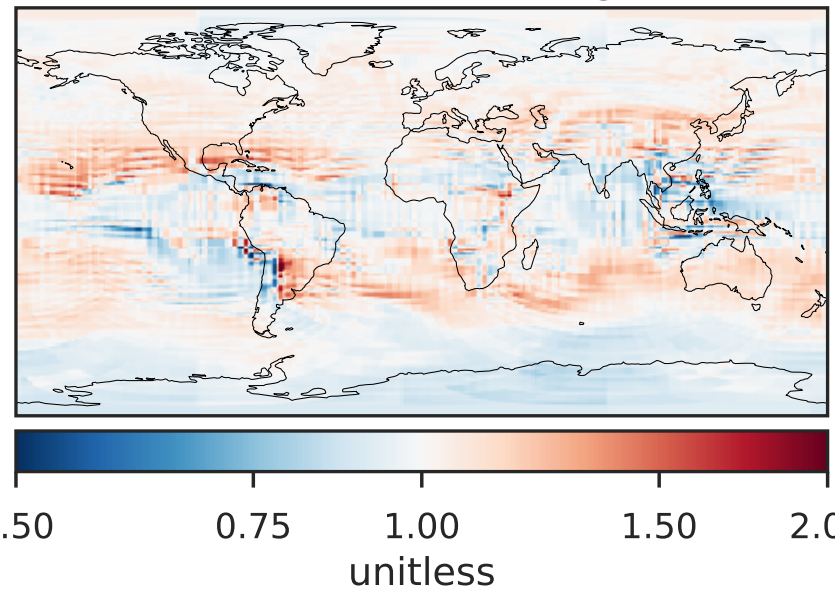
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

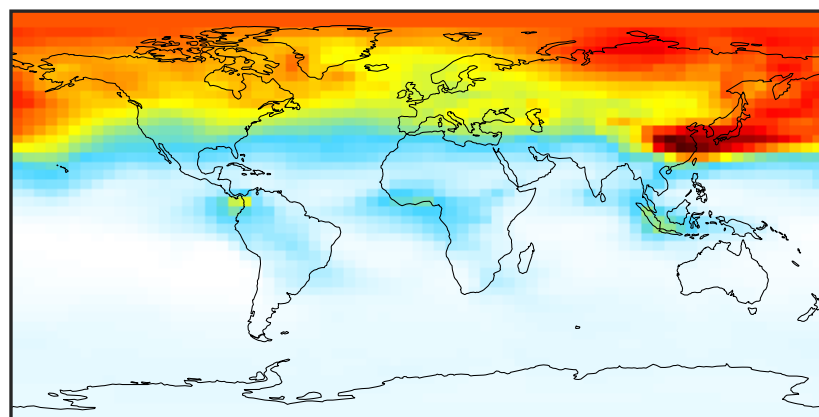


Ratio (1x1.25)
Dev/Ref, Fixed Range



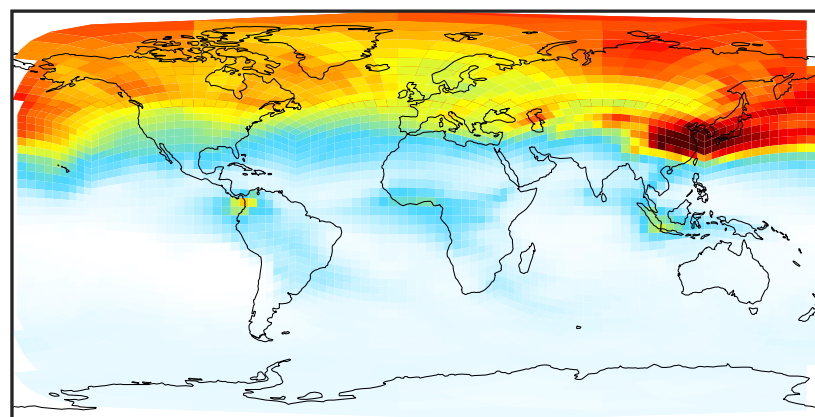
SpeciesConcVV_NPRNO3 (Apr2019)

GCC_14.2.0 (Ref)
4.0x5.0



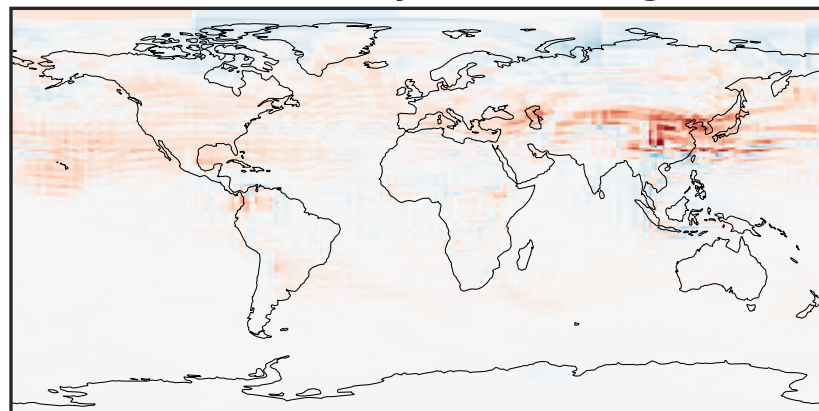
0.001 0.002 0.003
ppb

GCHP_14.2.0 (Dev)
c24



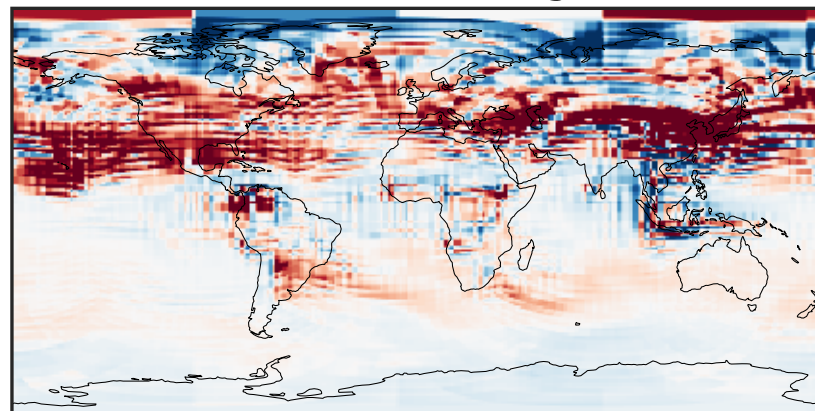
0.001 0.002 0.003
ppb

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



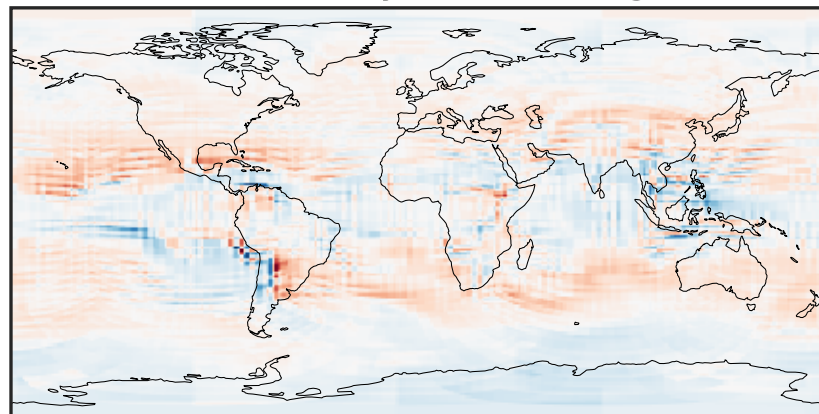
-0.0006 0.0000 0.0006
ppb

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



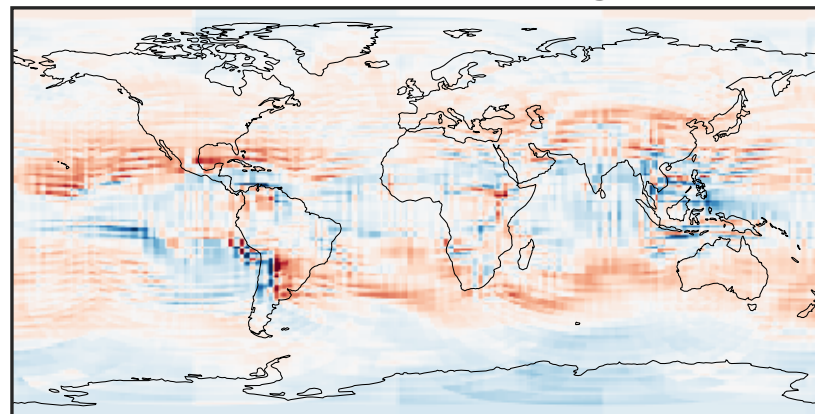
-8 0 8
ppb $1e-5$

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



0.367 0.684 1.000 1.862 2.723
unitless

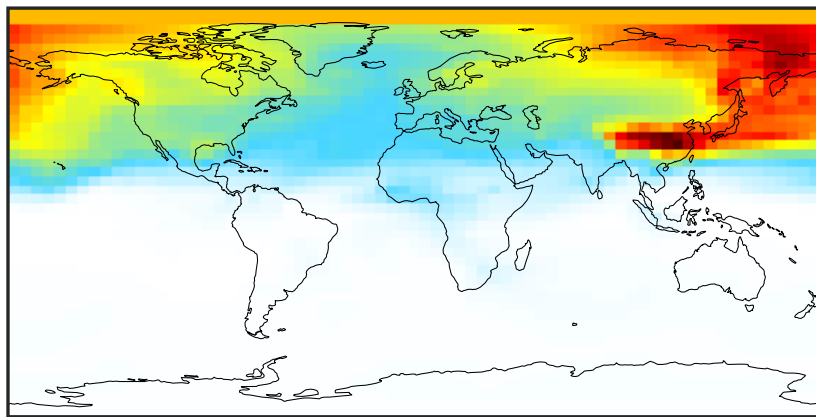
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

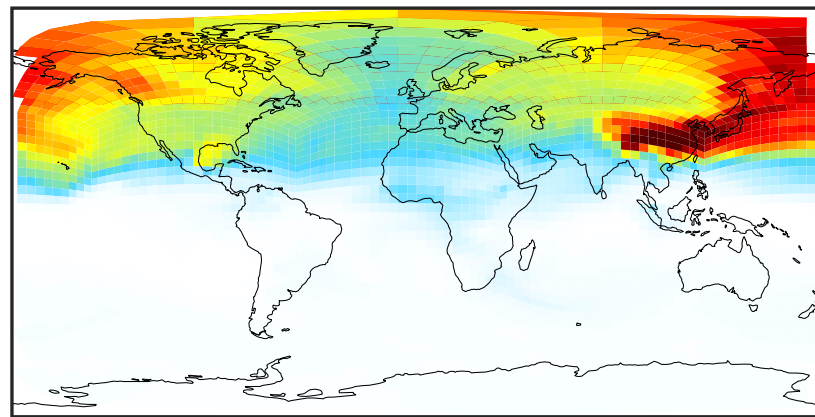
SpeciesConcVV_AONITA (Apr2019)

GCC_14.2.0 (Ref)
4.0x5.0



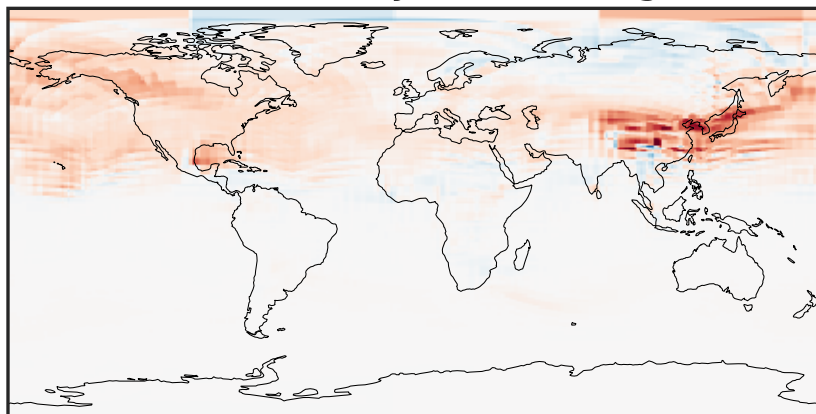
0.0015 0.0030 0.0045
ppb

GCHP_14.2.0 (Dev)
c24



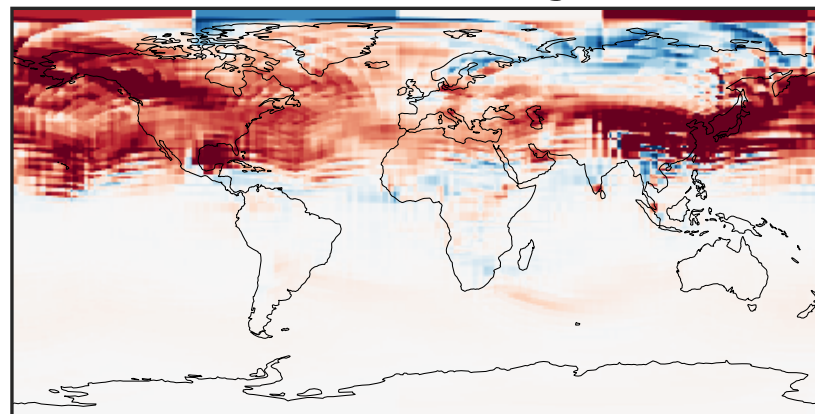
0.0015 0.0030 0.0045
ppb

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



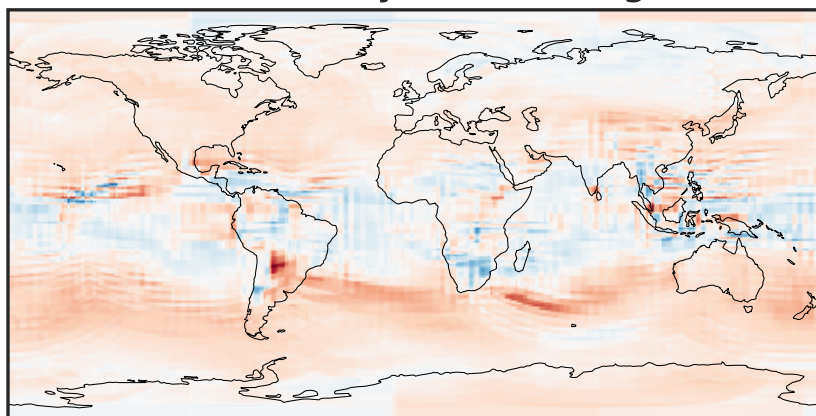
-0.0015 0.0000 0.0015
ppb

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



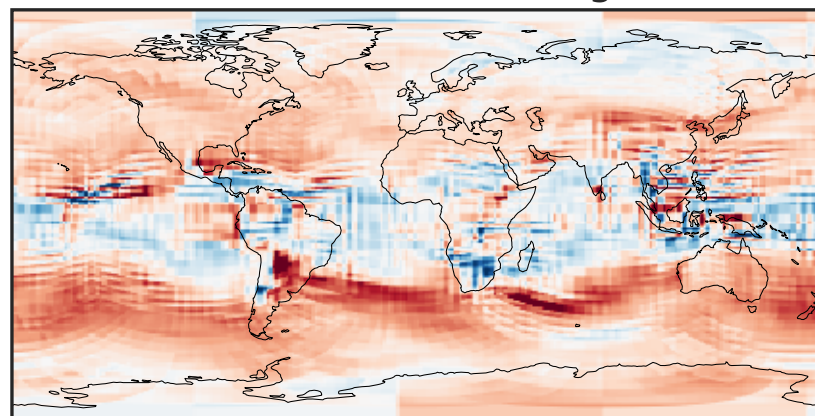
-0.0003 0.0000 0.0003
ppb

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



0.242 0.621 1.000 2.563 4.126
unitless

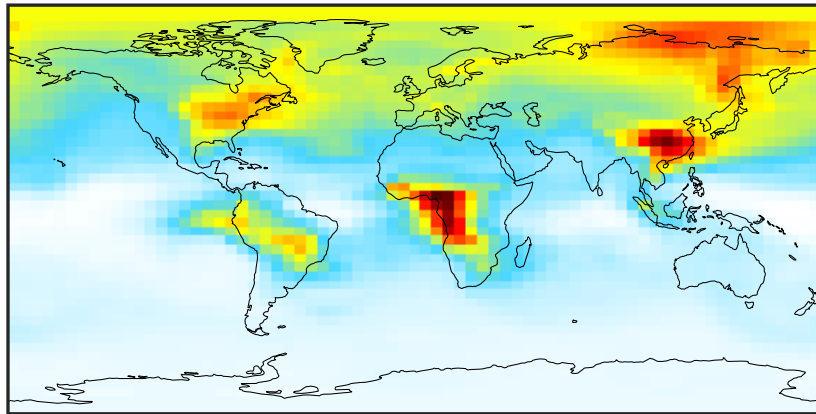
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

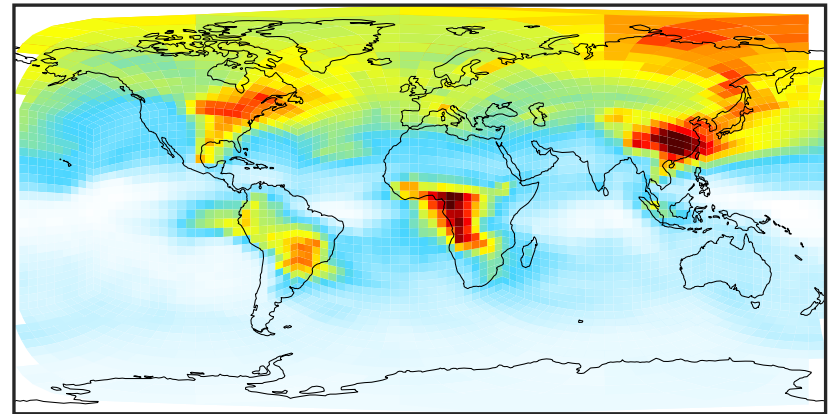
SpeciesConcVV_ETHN (Apr2019)

GCC_14.2.0 (Ref)
4.0x5.0



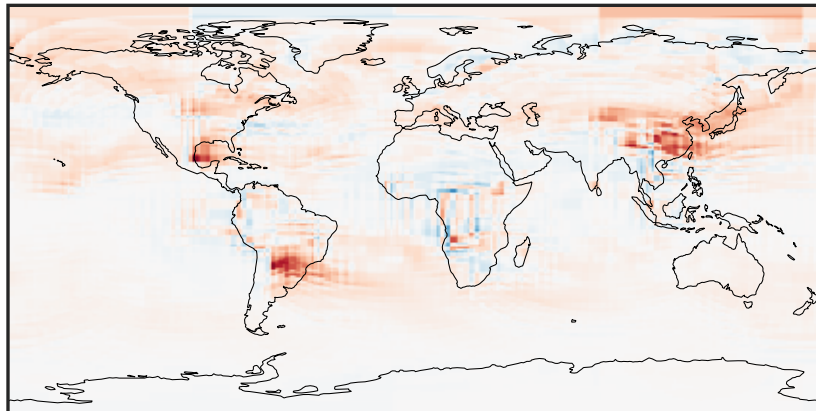
0.00015 0.00030
ppb

GCHP_14.2.0 (Dev)
c24



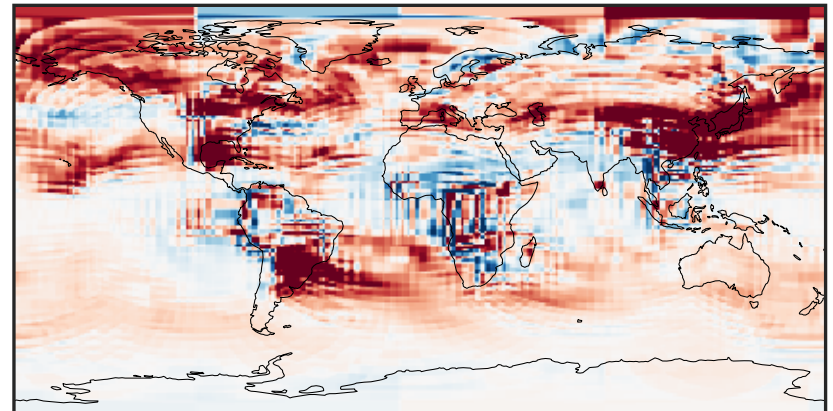
0.00015 0.00030
ppb

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



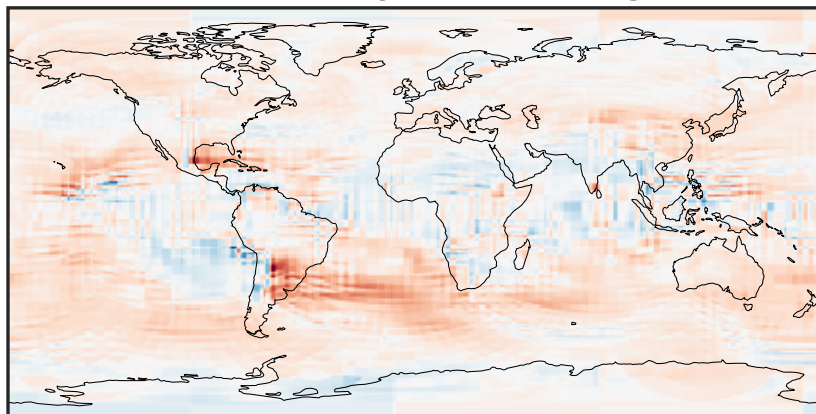
-8 0 8
ppb $1e-5$

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



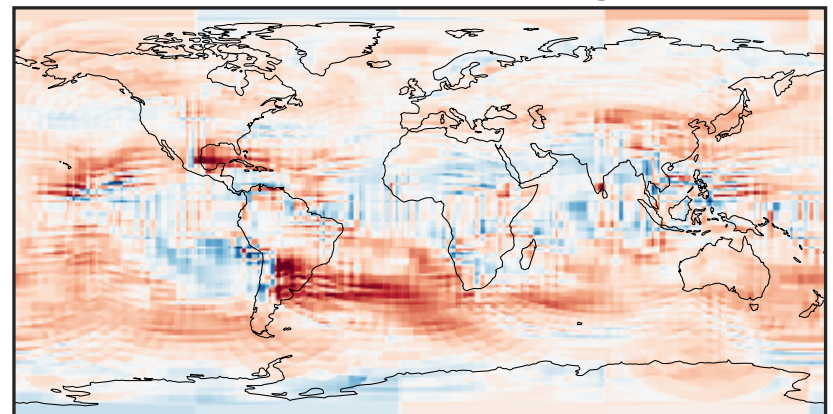
-2 0 2
ppb $1e-5$

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



0.300 0.650 1.000 2.167 3.334
unitless

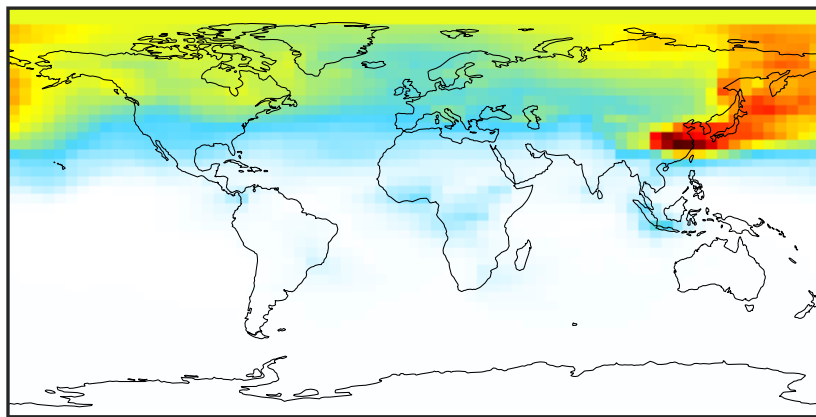
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

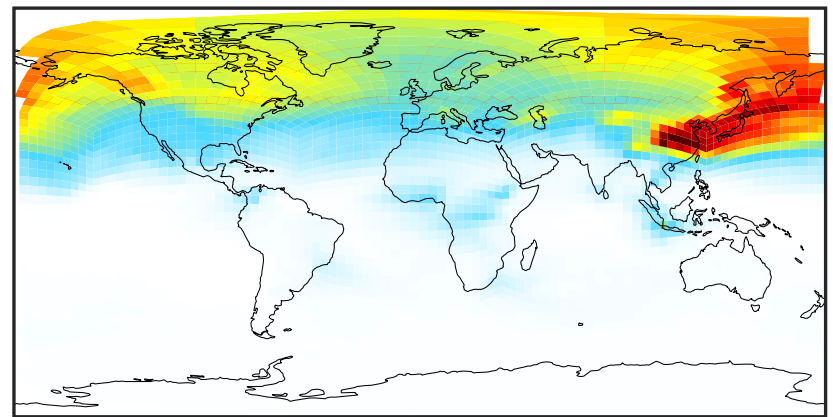
SpeciesConcVV_BZPAN (Apr2019)

GCC_14.2.0 (Ref)
4.0x5.0



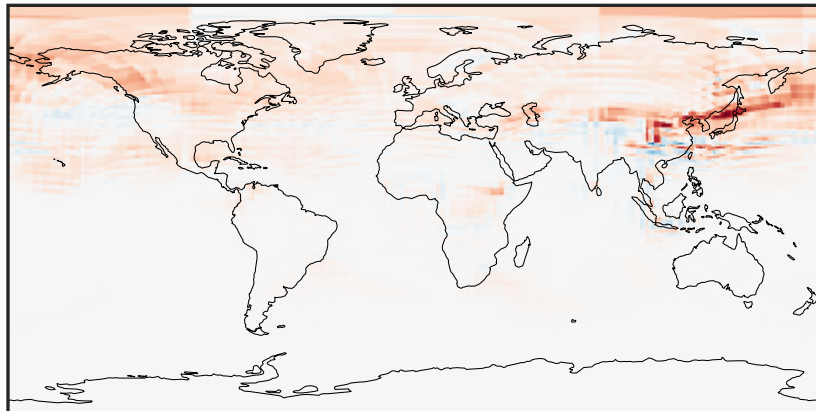
0.00025 0.00050 0.00075
ppb

GCHP_14.2.0 (Dev)
c24



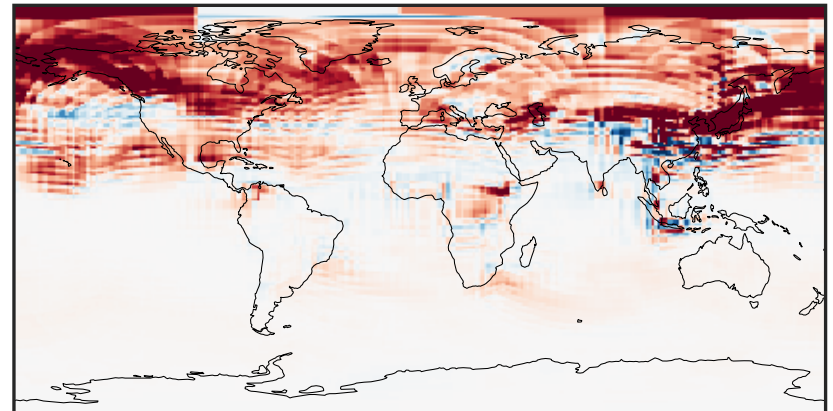
0.00025 0.00050 0.00075
ppb

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



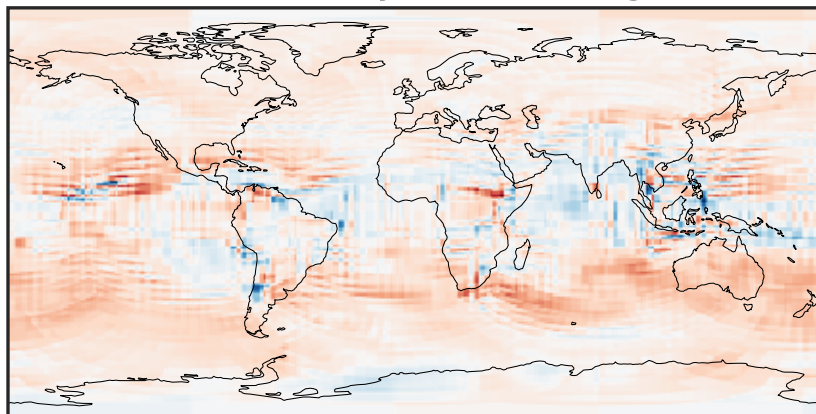
-0.00015 0.00000 0.00015
ppb

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



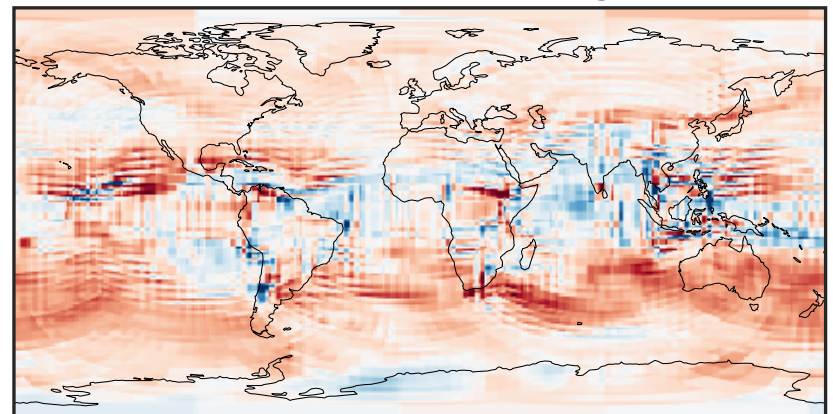
-4 0 4
ppb $1e-5$

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



0.304 0.652 1.000 2.147 3.294
unitless

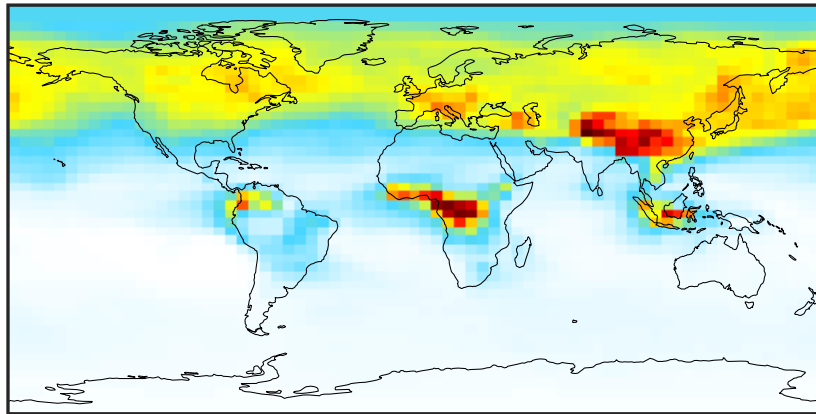
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

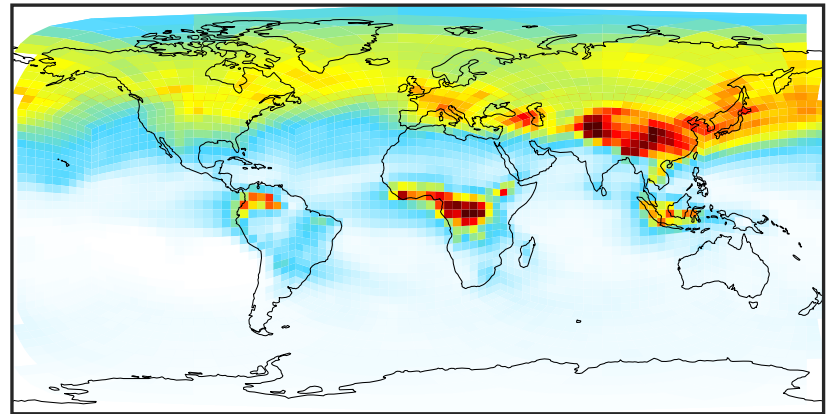
SpeciesConcVV_NPHEN (Apr2019)

GCC_14.2.0 (Ref)
4.0x5.0



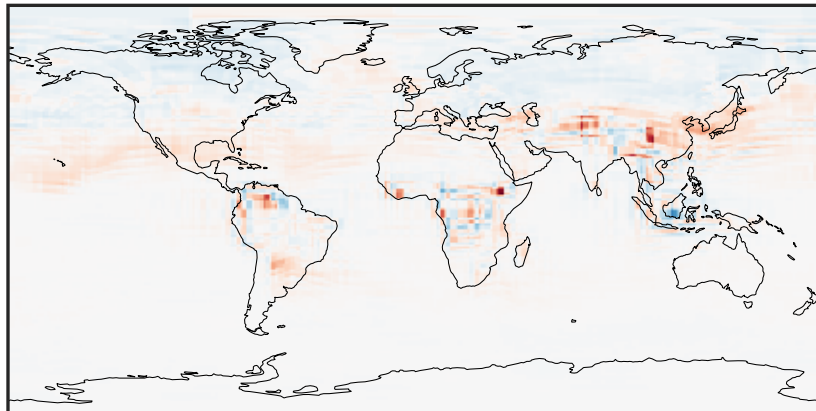
0.00005 0.00010 0.00015
ppb

GCHP_14.2.0 (Dev)
c24



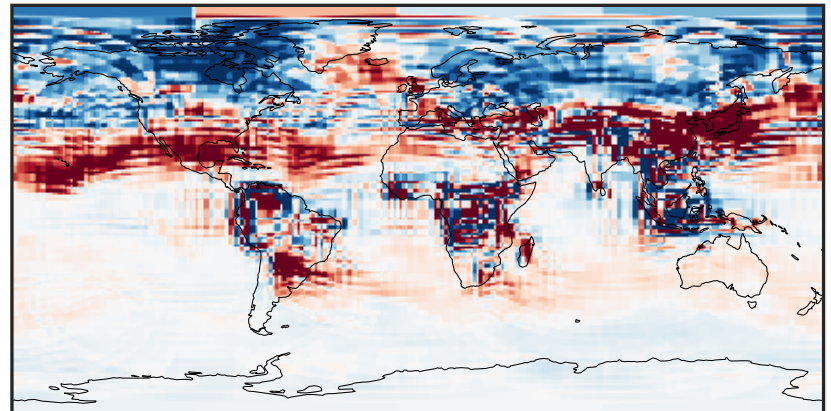
0.00005 0.00010 0.00015
ppb

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



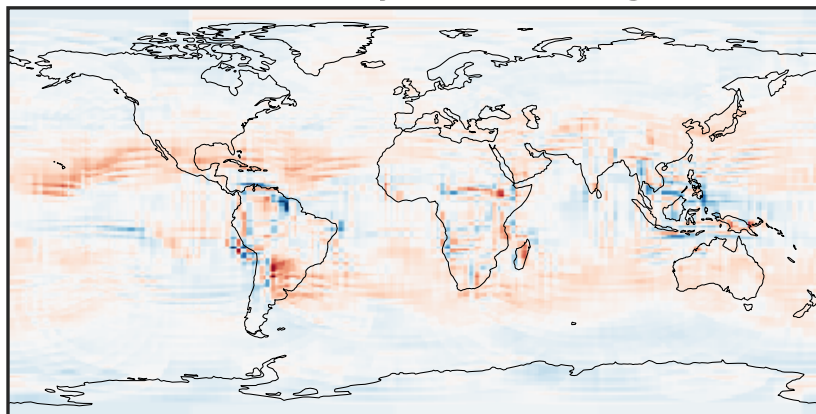
-5 0 5
ppb $1e-5$

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



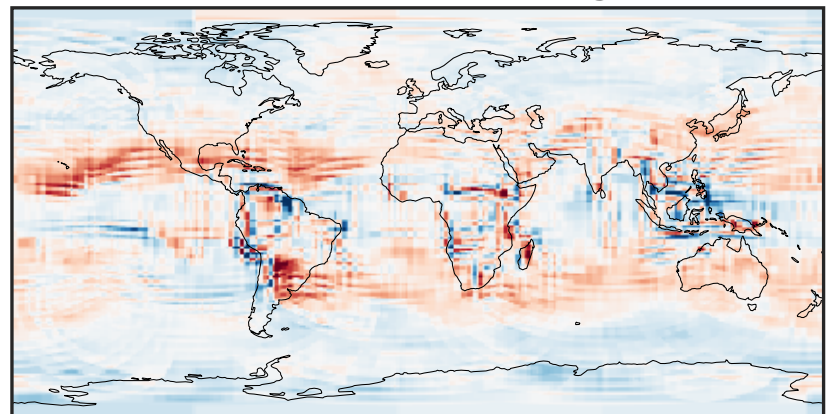
-5 0 5
ppb $1e-6$

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



0.301 0.651 1.000 2.159 3.318
unitless

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



0.50 0.75 1.00 1.50 2.00
unitless