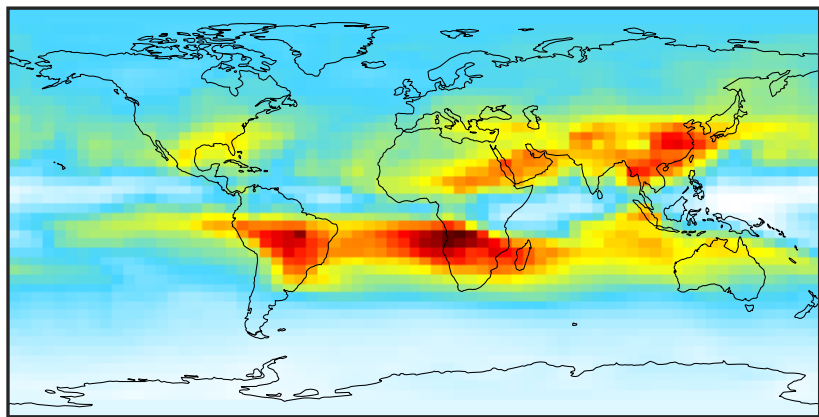


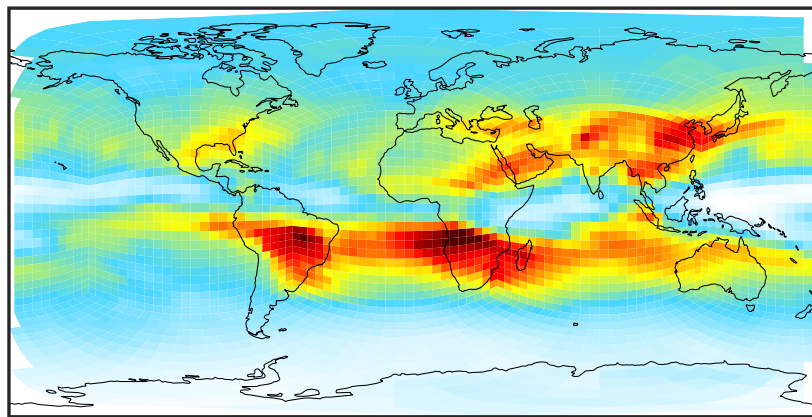
SpeciesConcVV_NOy (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



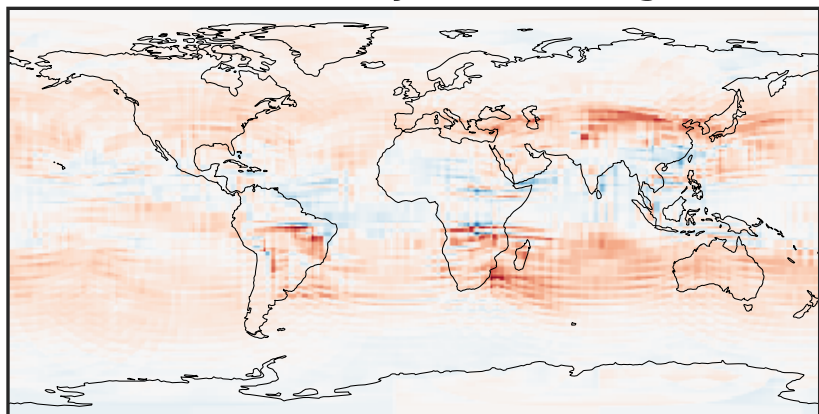
0.0408 0.2144 0.4288 0.6432 0.8985
ppb

GCHP_14.2.0 (Dev)
c24



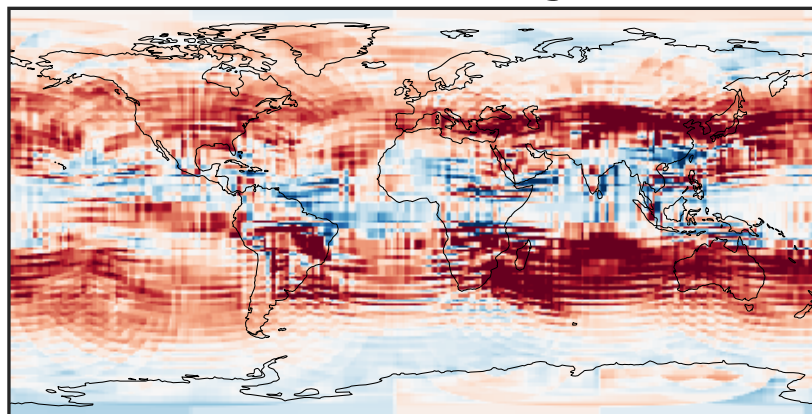
0.0408 0.2144 0.4288 0.6432 0.8985
ppb

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



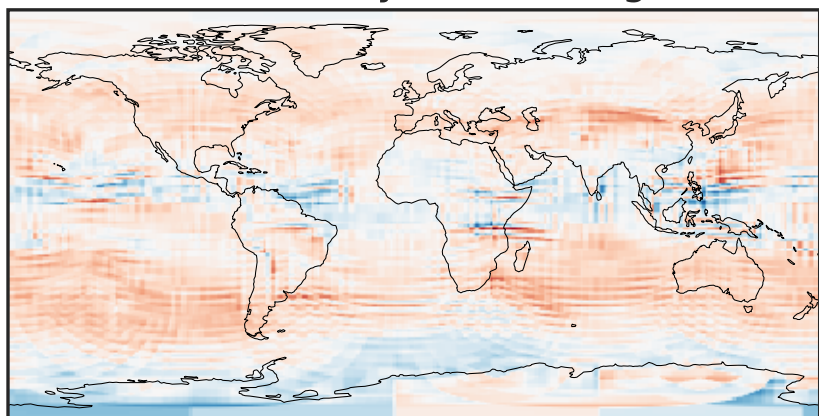
-0.2331 -0.1165 0.0000 0.1165 0.2331
ppb

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



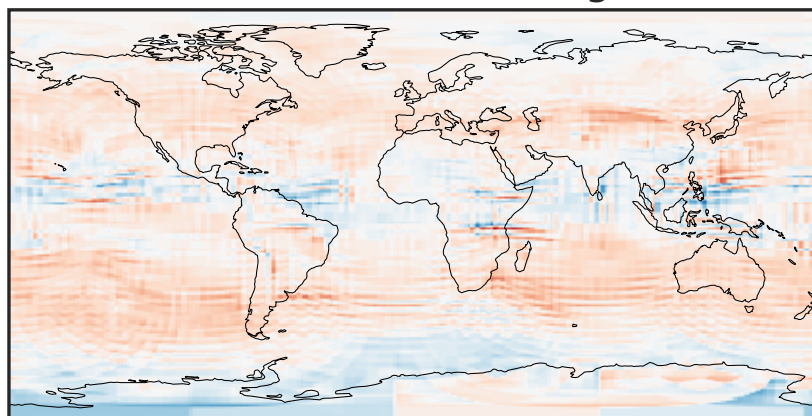
-0.0605 -0.0302 0.0000 0.0302 0.0605
ppb

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



0.551 0.775 1.000 1.408 1.816
unitless

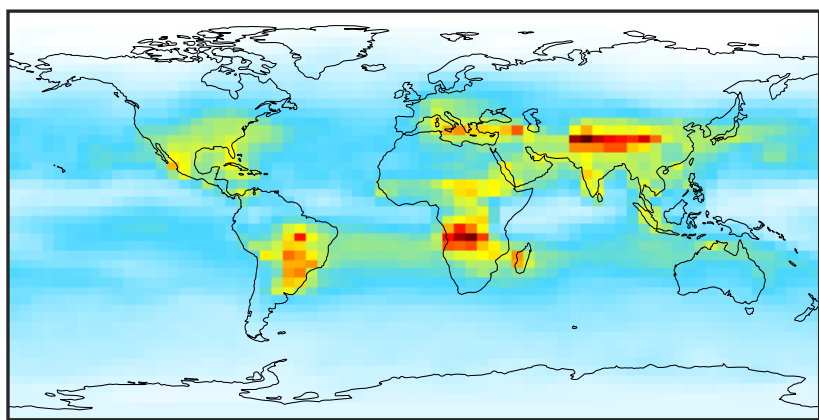
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

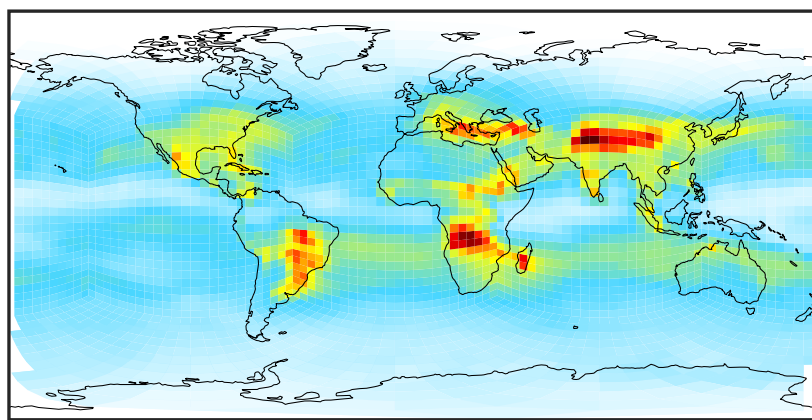
SpeciesConcVV_NOx (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



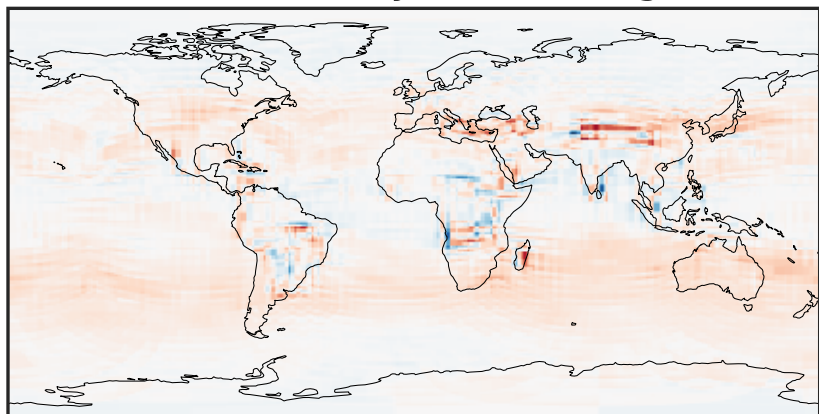
0.0022 0.0412 0.0823 0.1235 0.1668
ppb

GCHP_14.2.0 (Dev)
c24



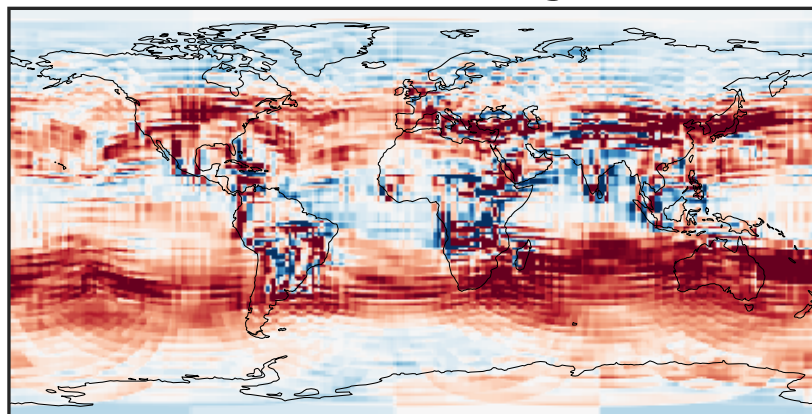
0.0022 0.0412 0.0823 0.1235 0.1668
ppb

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



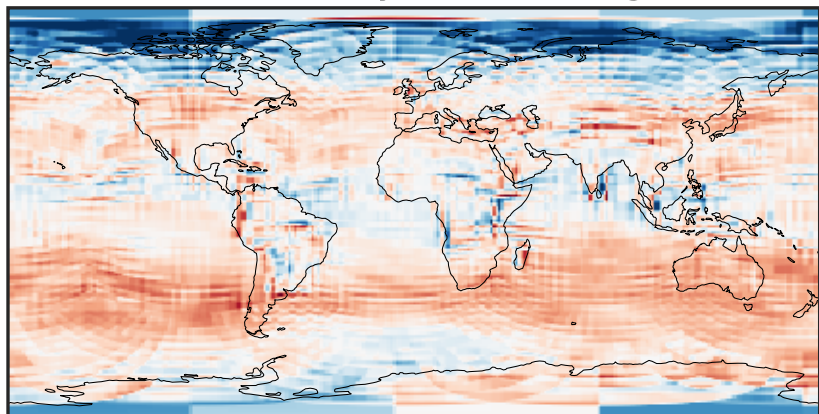
-0.056 -0.028 0.000 0.028 0.056
ppb

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



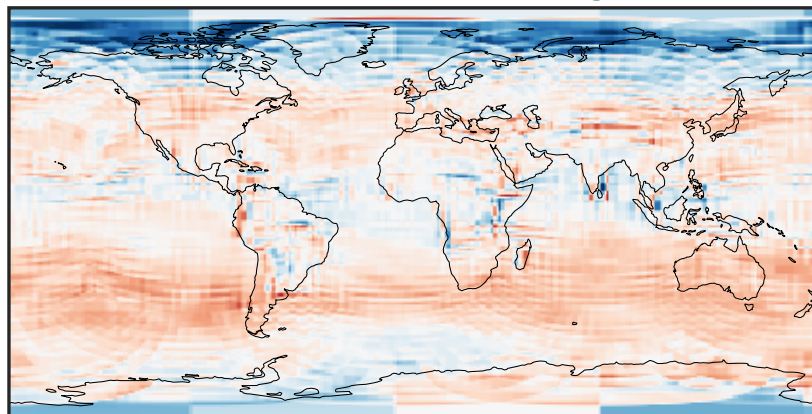
-0.005 0.000 0.005
ppb

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



0.579 0.789 1.000 1.364 1.728
unitless

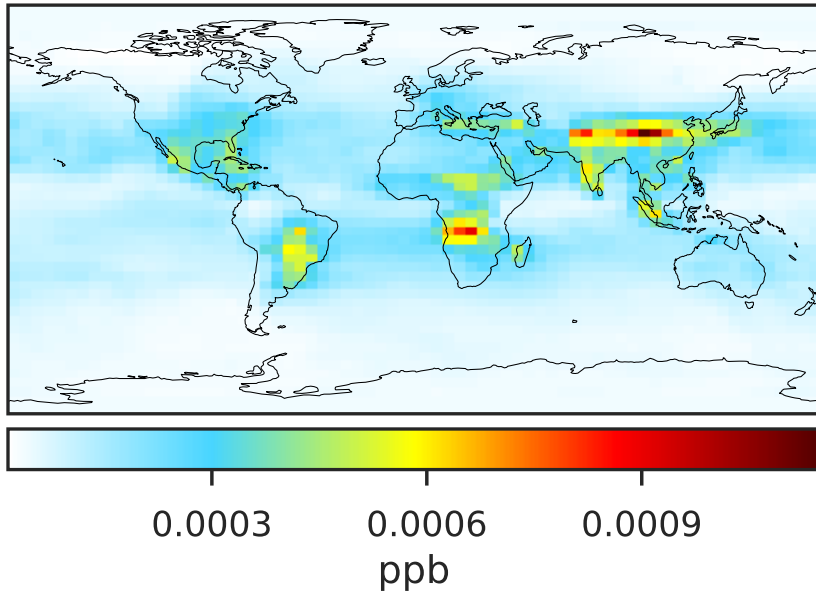
Ratio (1x1.25)
Dev/Ref, Fixed Range



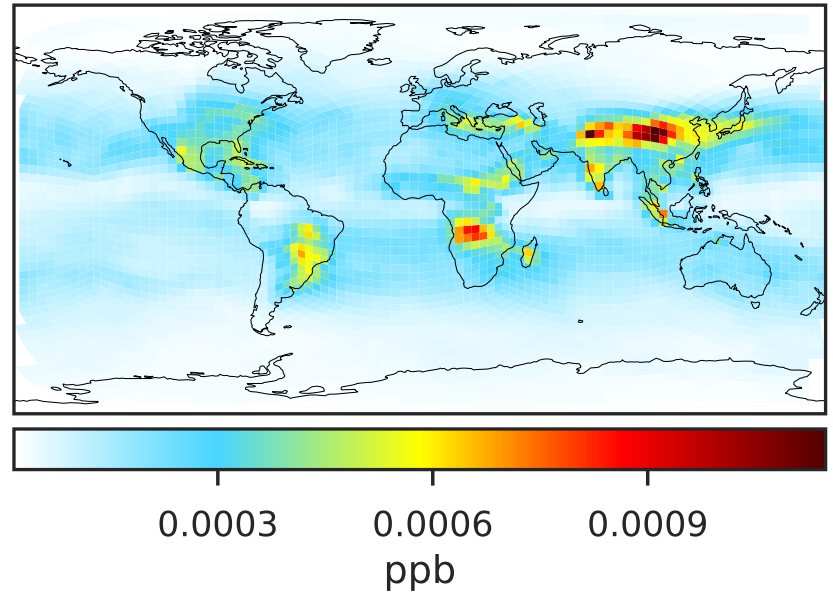
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_HNO2 (Oct2019)

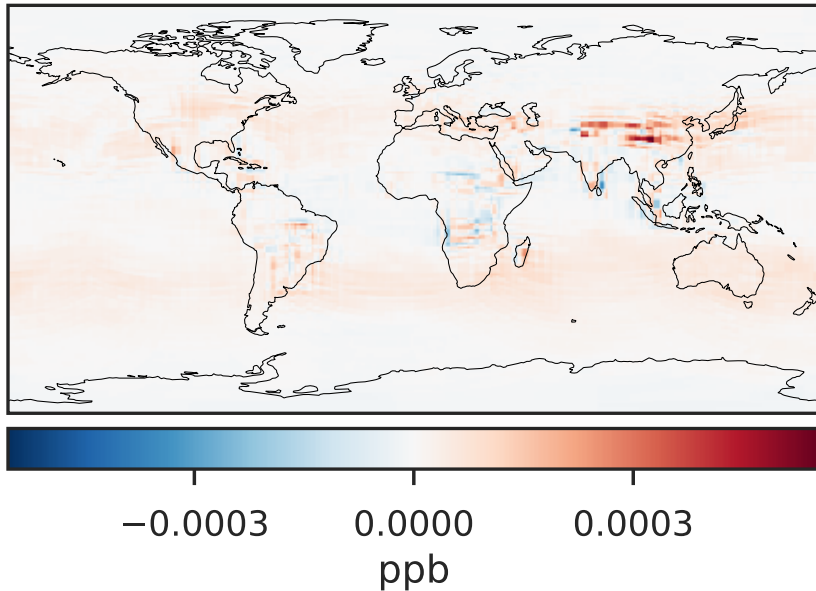
GCC_14.2.0 (Ref)
4.0x5.0



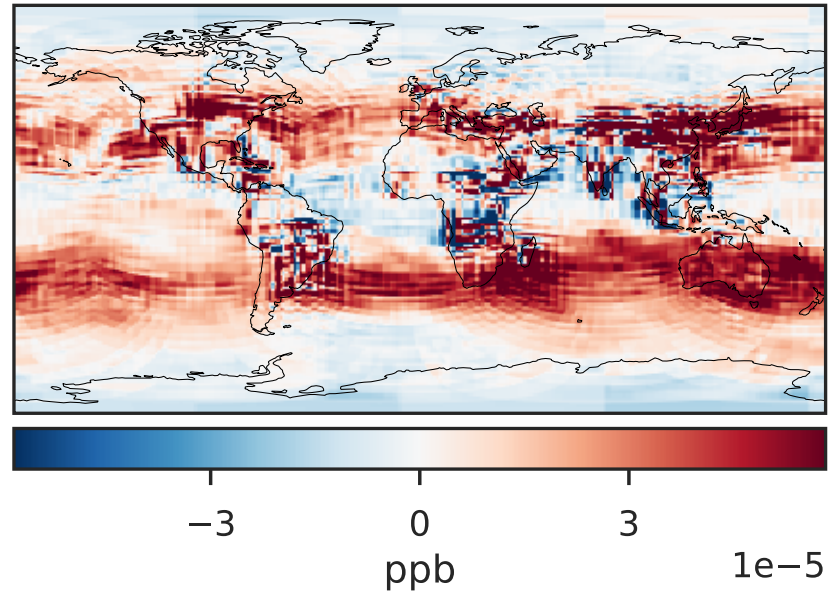
GCHP_14.2.0 (Dev)
c24



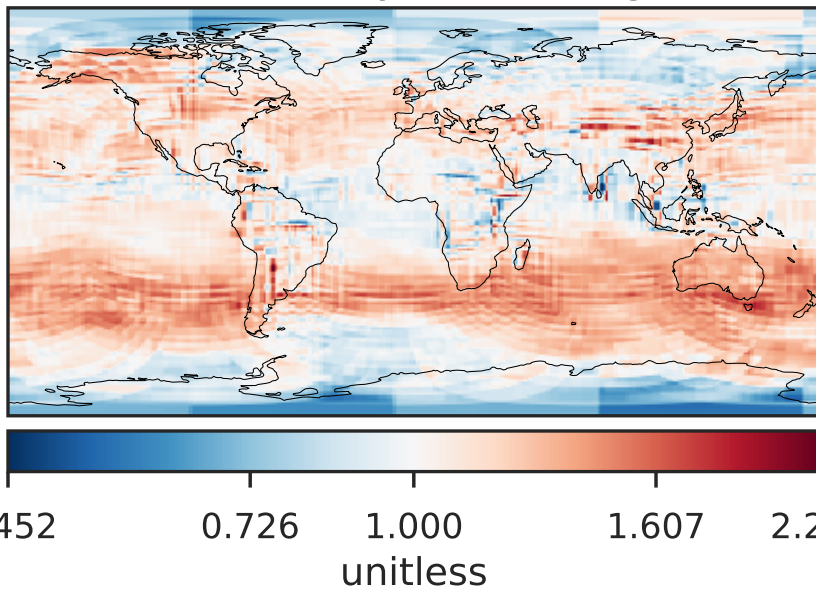
Difference (1x1.25)
Dev - Ref, Dynamic Range



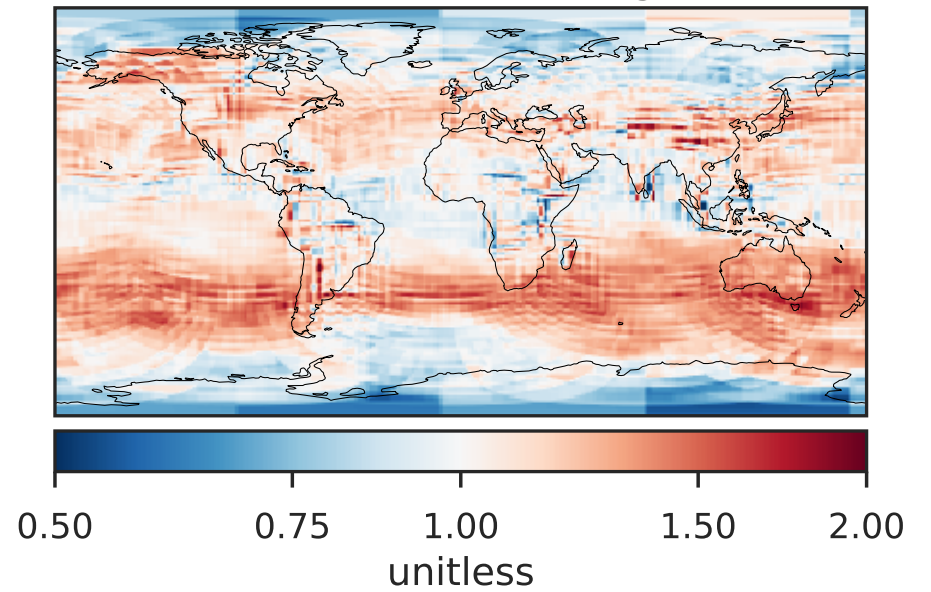
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

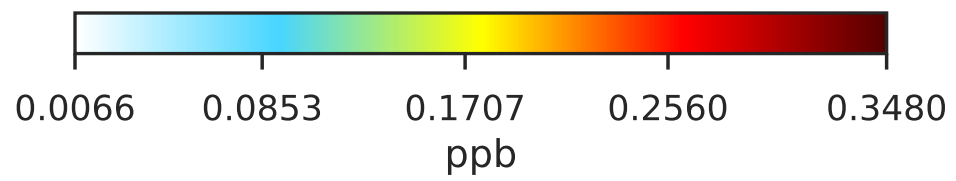
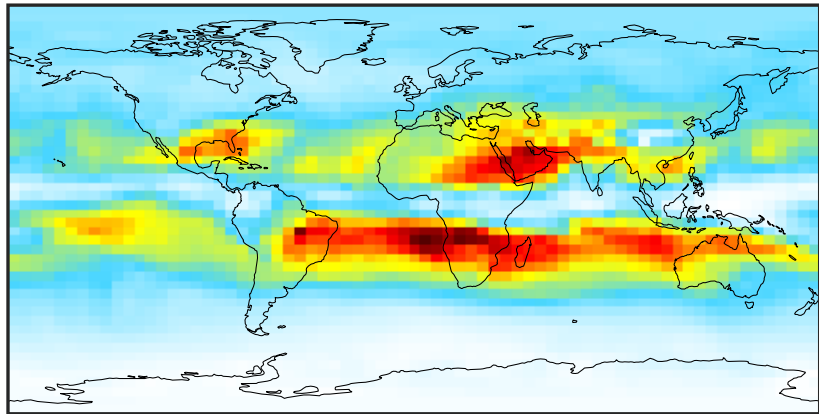


Ratio (1x1.25)
Dev/Ref, Fixed Range

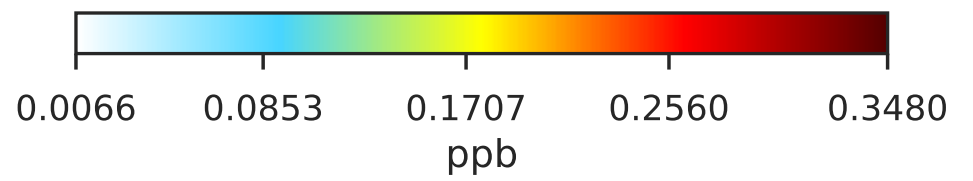
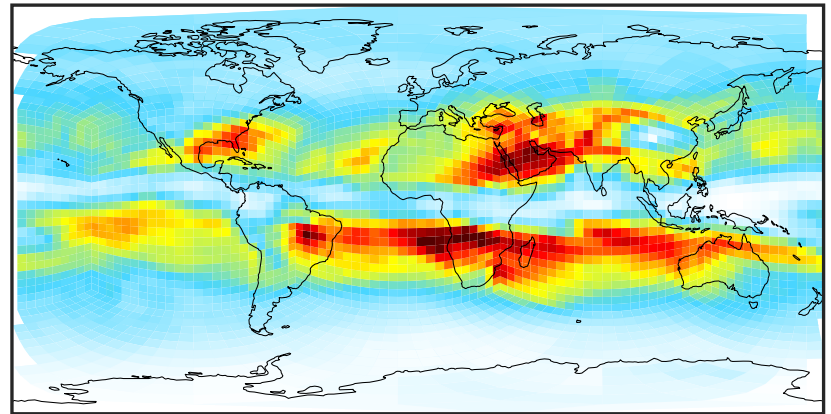


SpeciesConcVV_HNO3 (Oct2019)

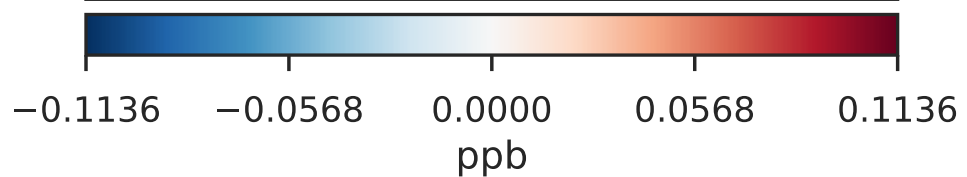
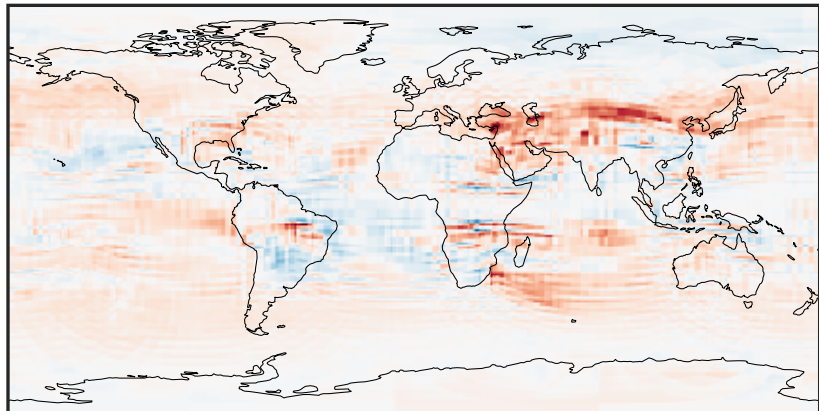
GCC_14.2.0 (Ref)
4.0x5.0



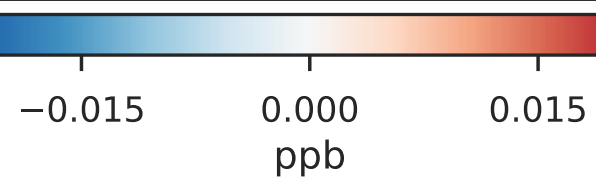
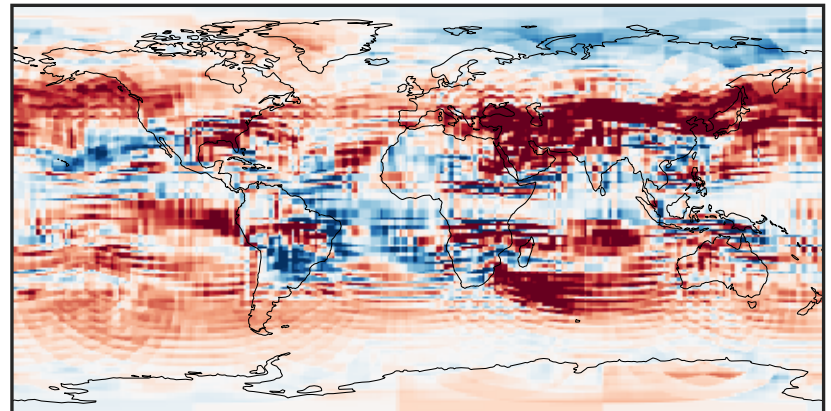
GCHP_14.2.0 (Dev)
c24



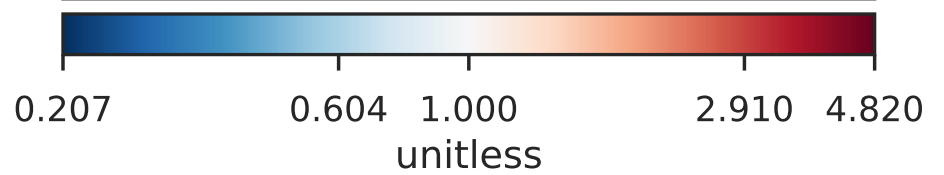
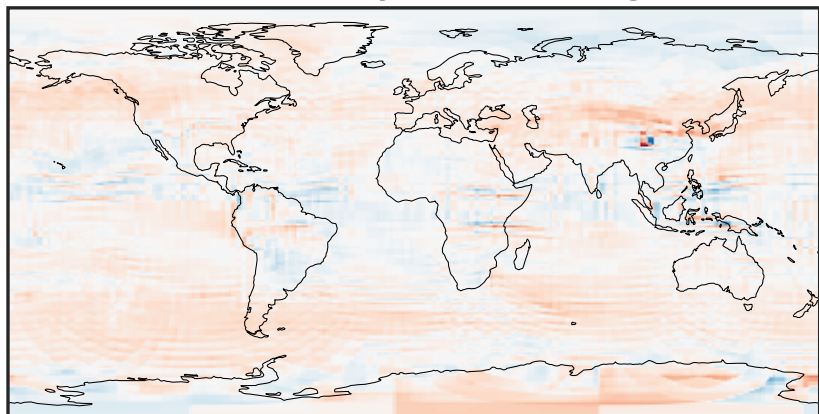
Difference (1x1.25)
Dev - Ref, Dynamic Range



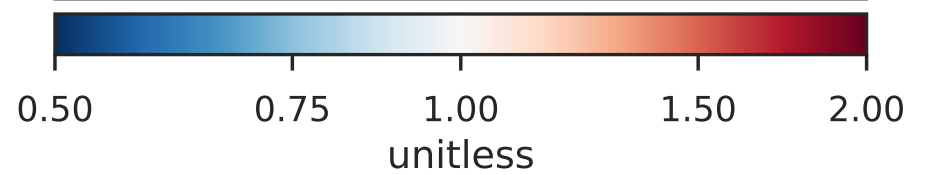
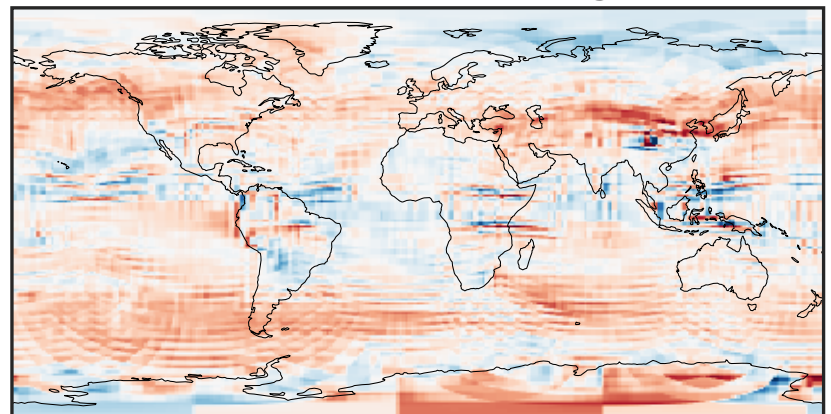
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

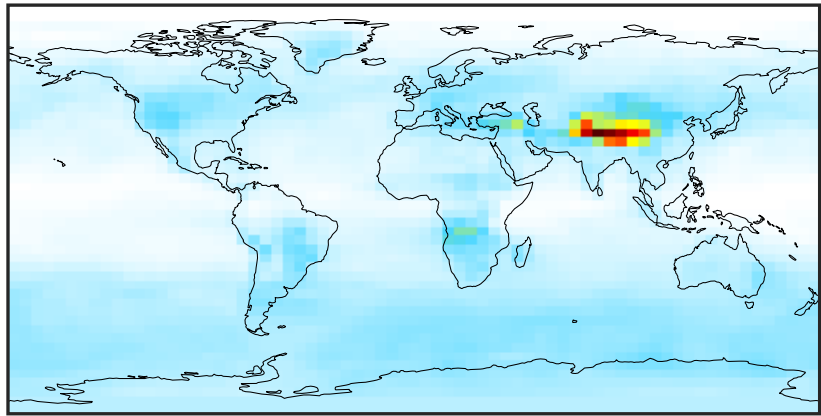


Ratio (1x1.25)
Dev/Ref, Fixed Range



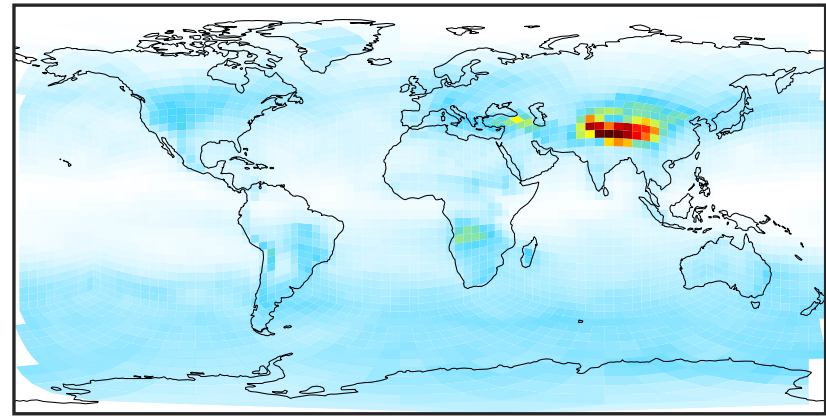
SpeciesConcVV_HNO4 (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



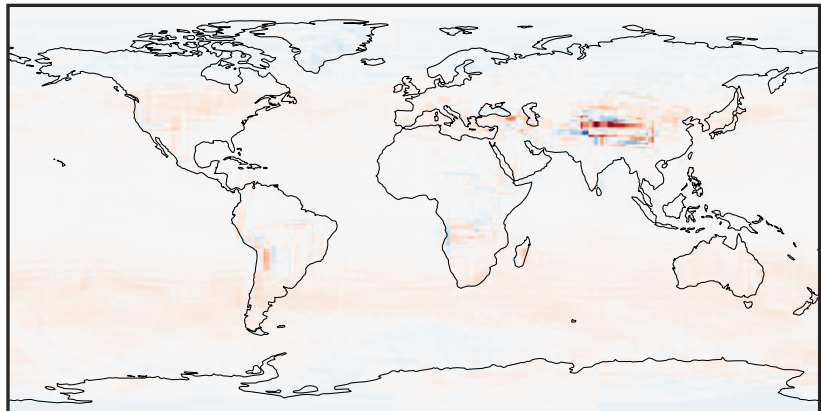
0.015 0.030 0.045
ppb

GCHP_14.2.0 (Dev)
c24



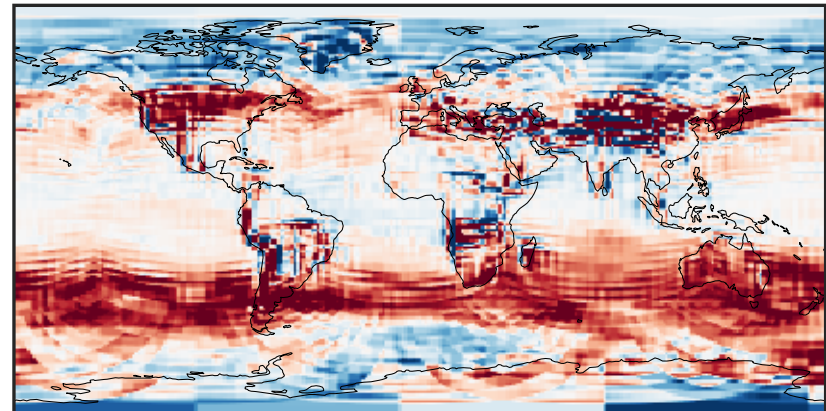
0.015 0.030 0.045
ppb

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



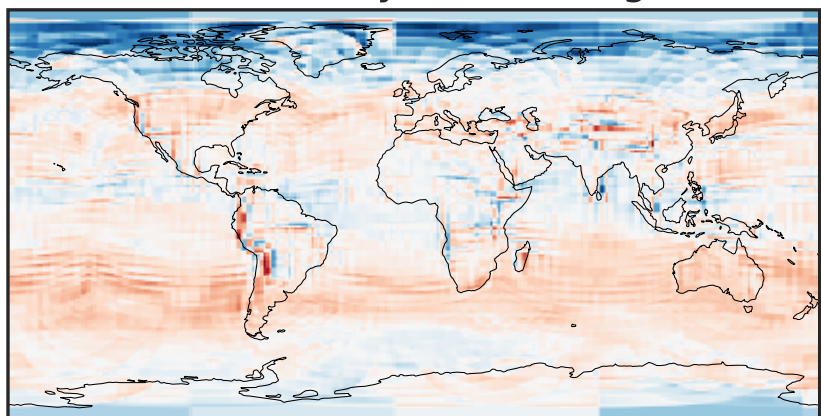
-0.01 0.00 0.01
ppb

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



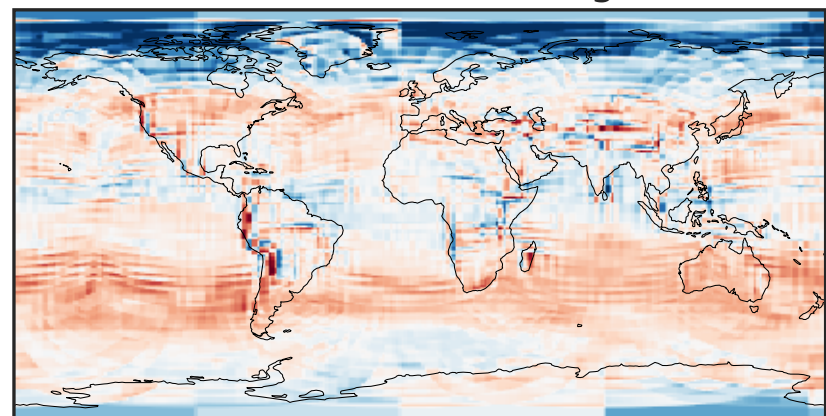
-0.0008 0.0000 0.0008
ppb

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



0.380 0.690 1.000 1.815 2.630
unitless

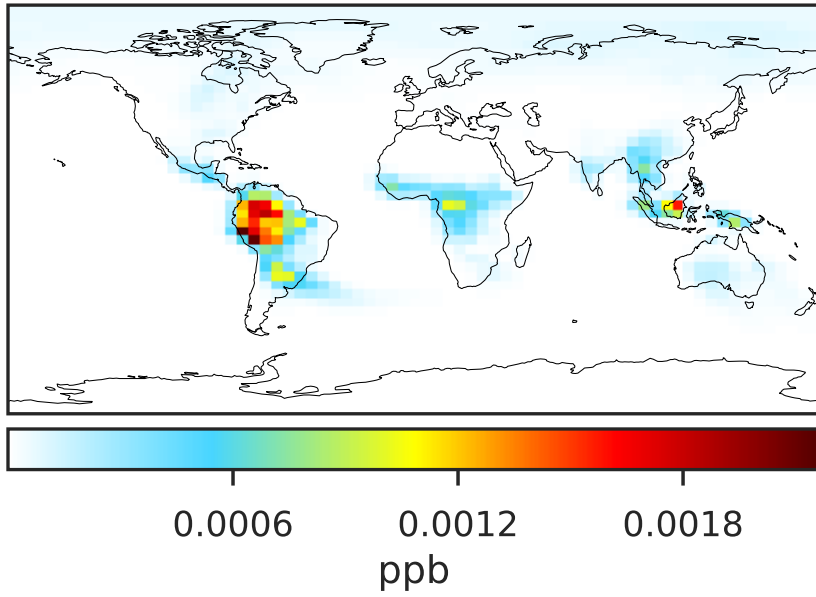
Ratio (1x1.25)
Dev/Ref, Fixed Range



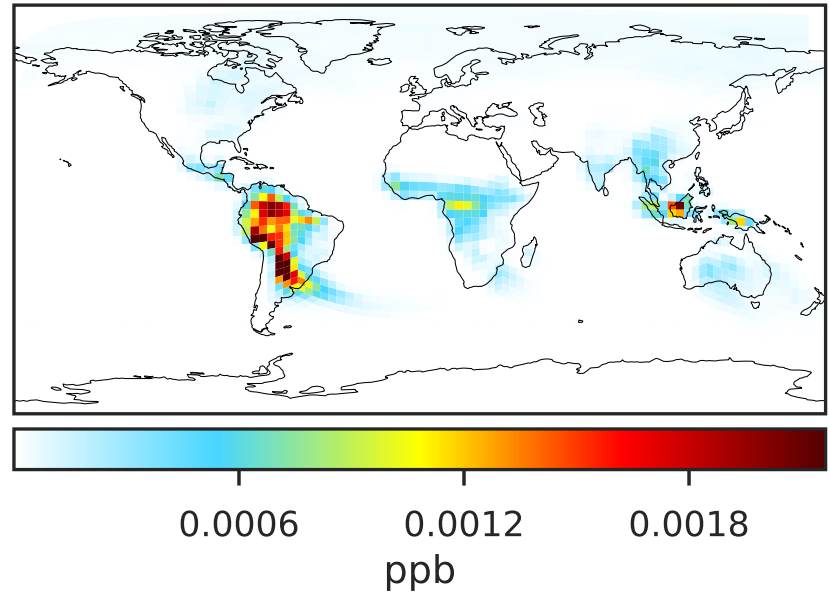
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_MPAN (Oct2019)

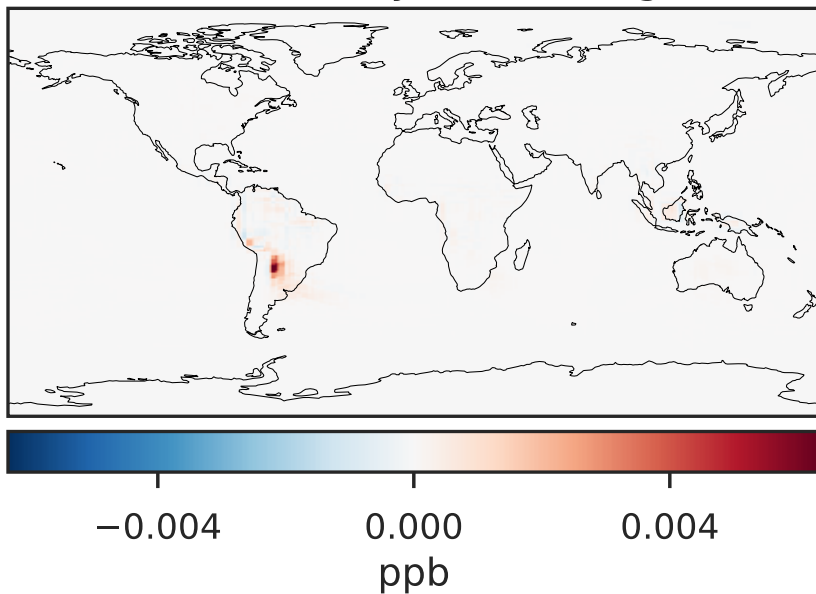
GCC_14.2.0 (Ref)
4.0x5.0



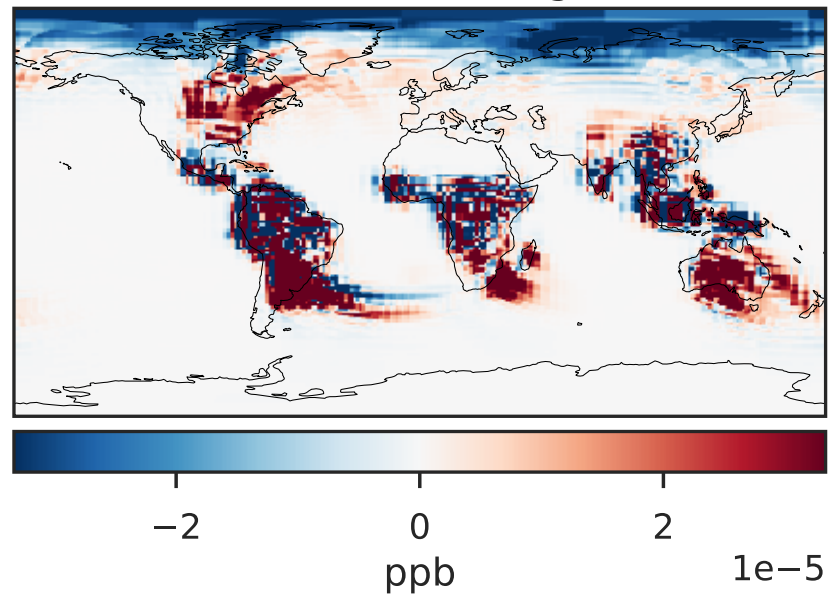
GCHP_14.2.0 (Dev)
c24



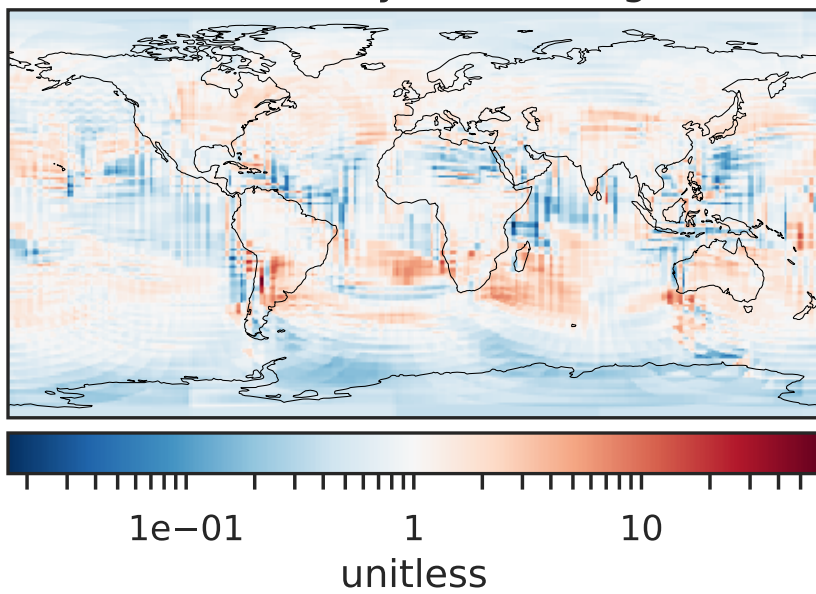
Difference (1x1.25)
Dev - Ref, Dynamic Range



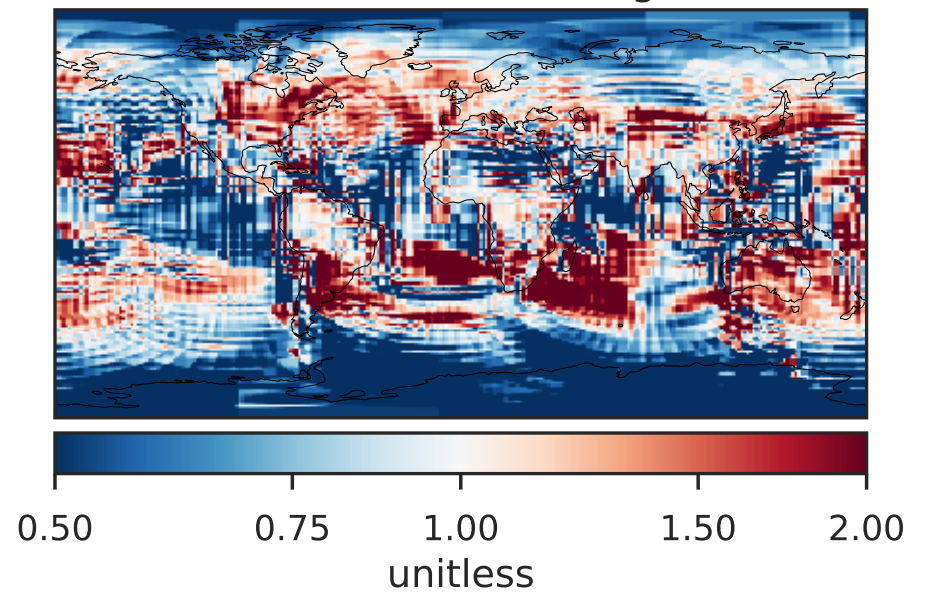
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

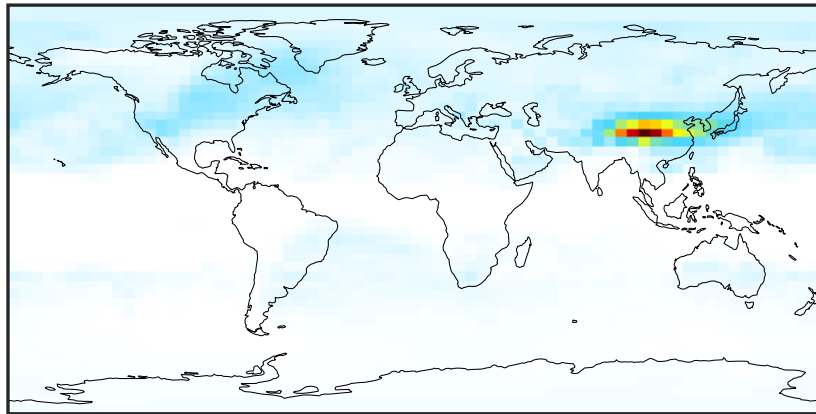


Ratio (1x1.25)
Dev/Ref, Fixed Range



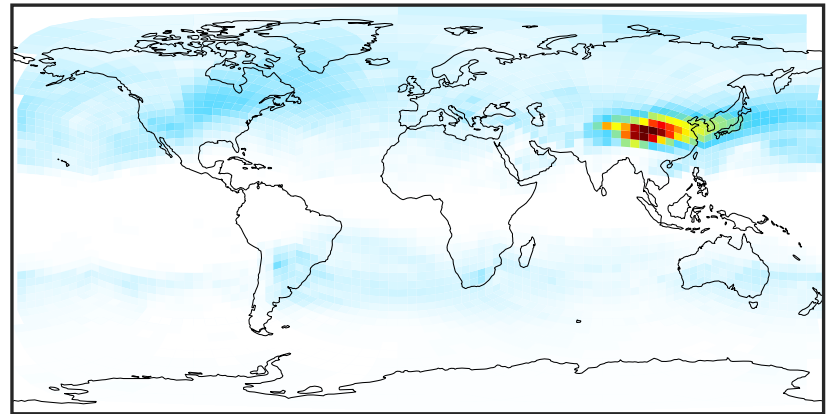
SpeciesConcVV_NIT (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



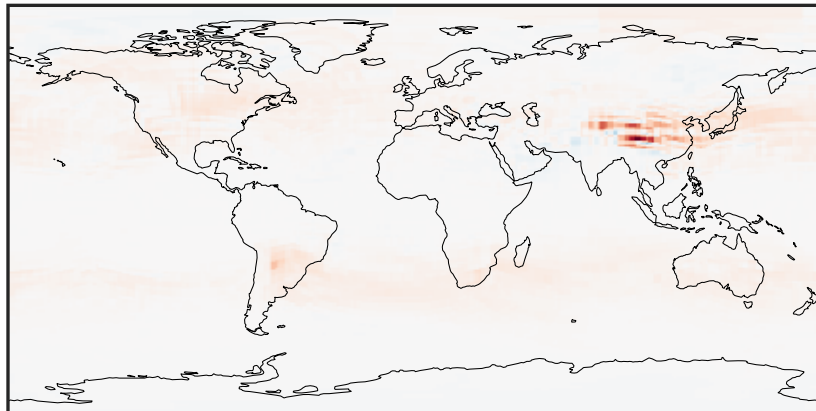
0.0000 0.1303 0.2607 0.3910 0.5213
ppb

GCHP_14.2.0 (Dev)
c24



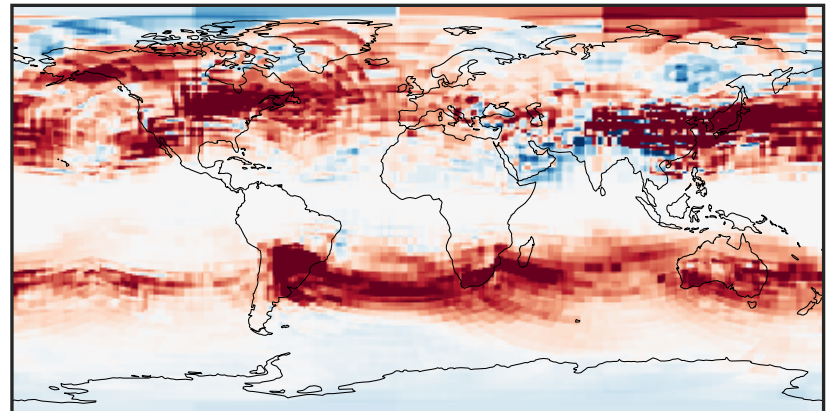
0.0000 0.1303 0.2607 0.3910 0.5213
ppb

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



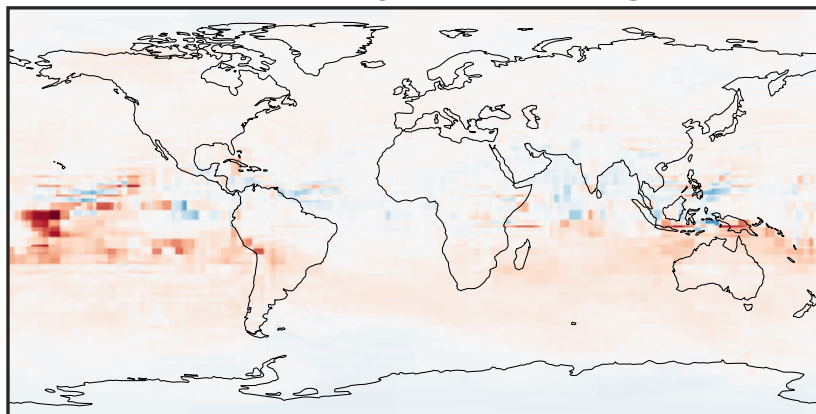
-0.3131 -0.1566 0.0000 0.1566 0.3131
ppb

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



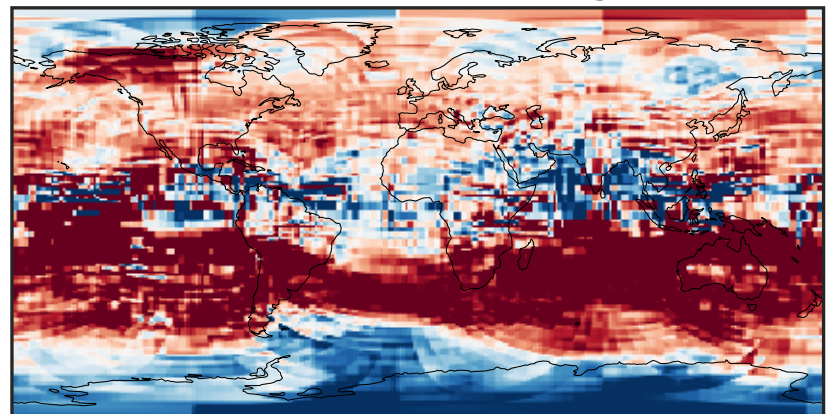
-0.01 0.00 0.01
ppb

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



unitless

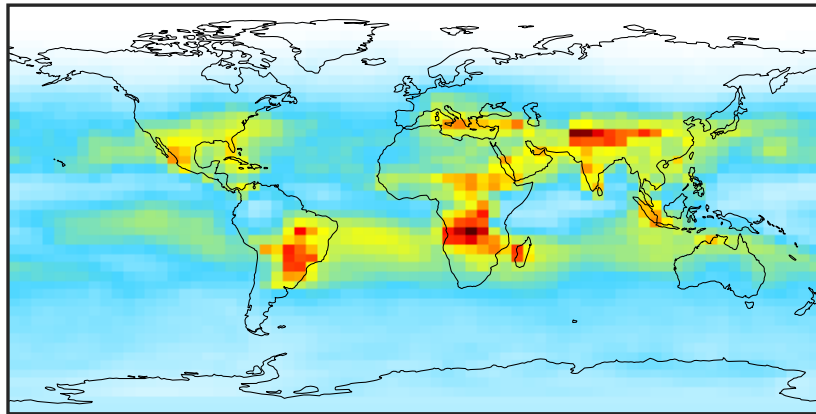
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

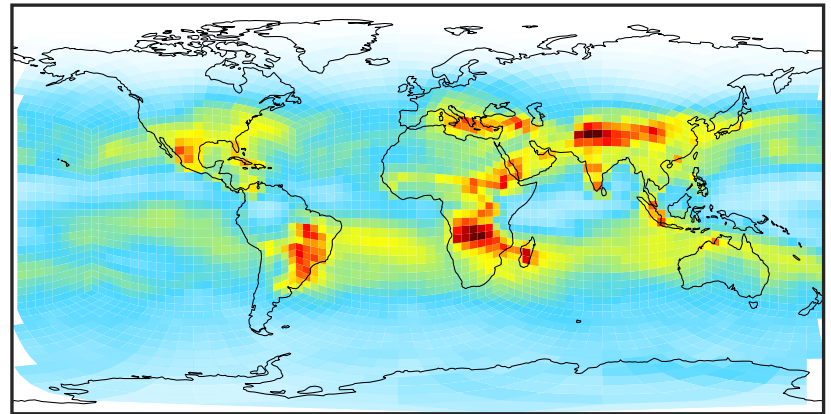
SpeciesConcVV_NO (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



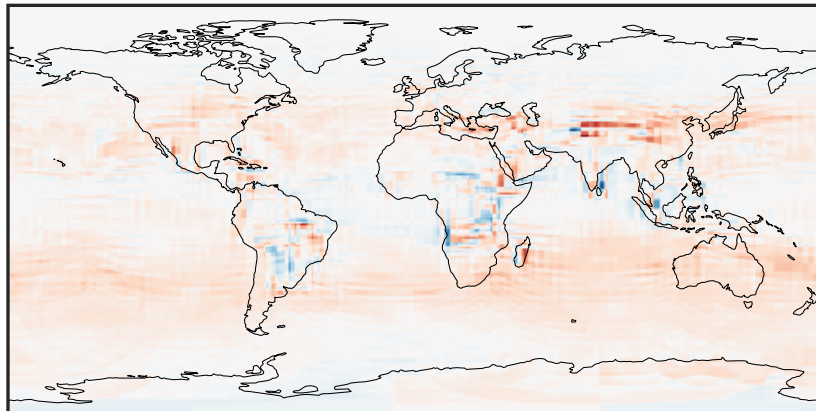
0.008 0.016 0.024
ppb

GCHP_14.2.0 (Dev)
c24



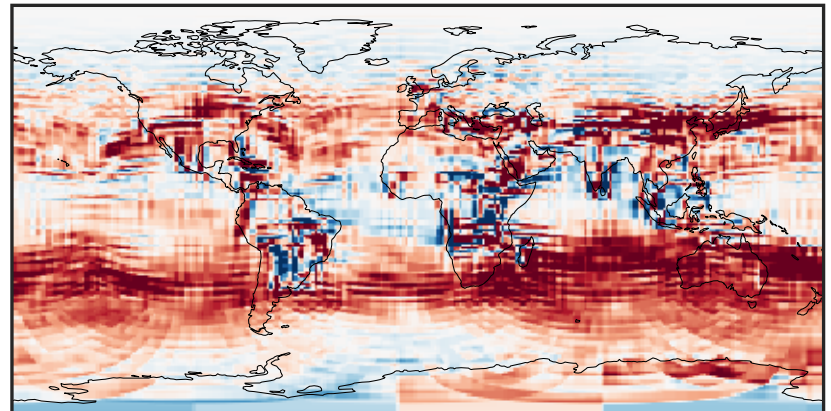
0.008 0.016 0.024
ppb

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



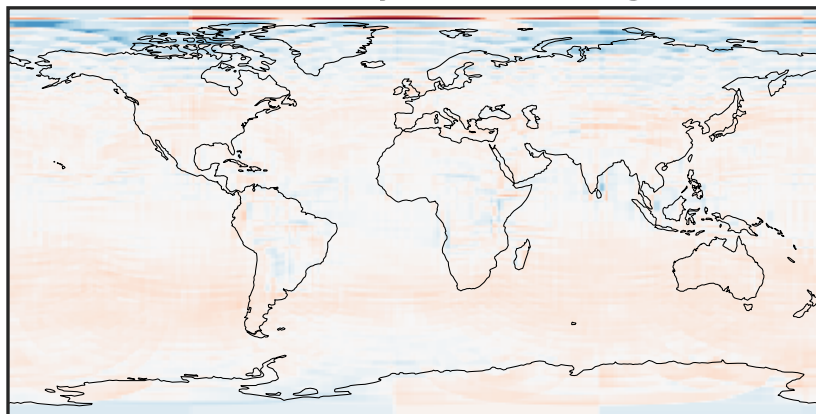
-0.006 0.000 0.006
ppb

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



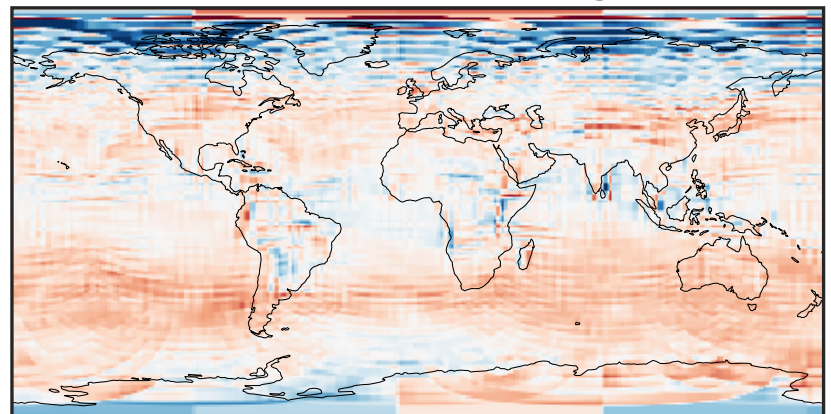
-0.001 0.000 0.001
ppb

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



0.117 0.558 1.000 4.778 8.555
unitless

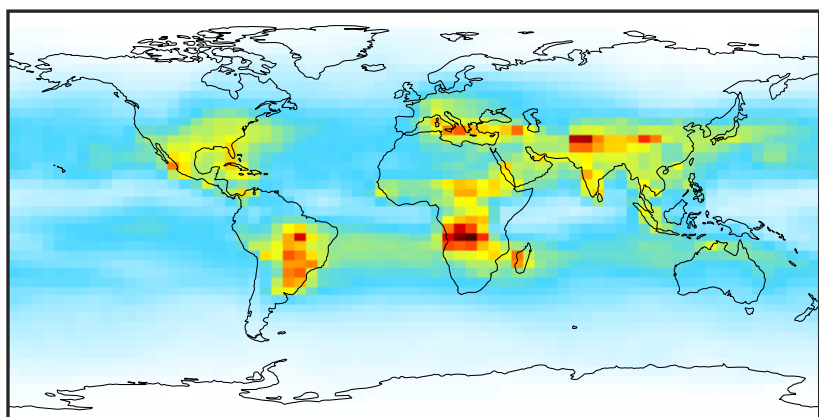
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

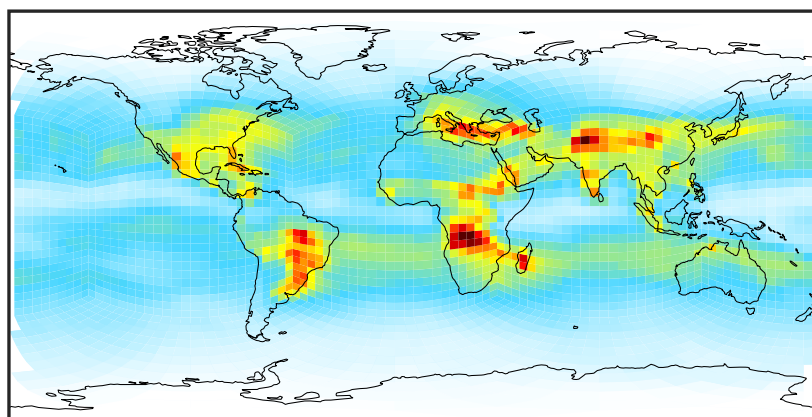
SpeciesConcVW_NO2 (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



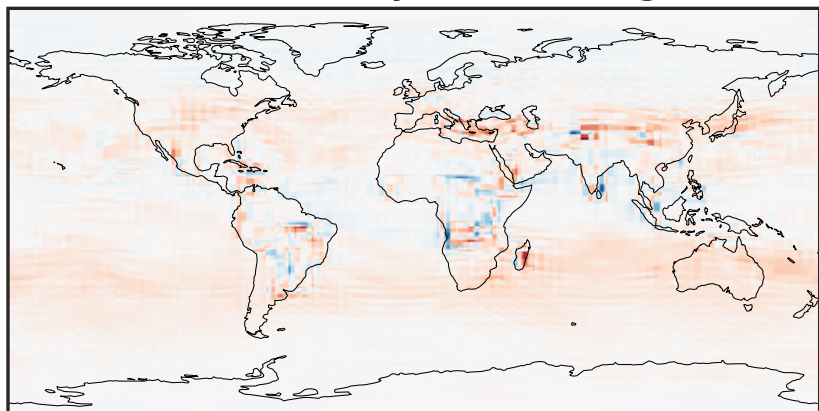
0.0012 0.0276 0.0552 0.0828 0.1116
ppb

GCHP_14.2.0 (Dev)
c24



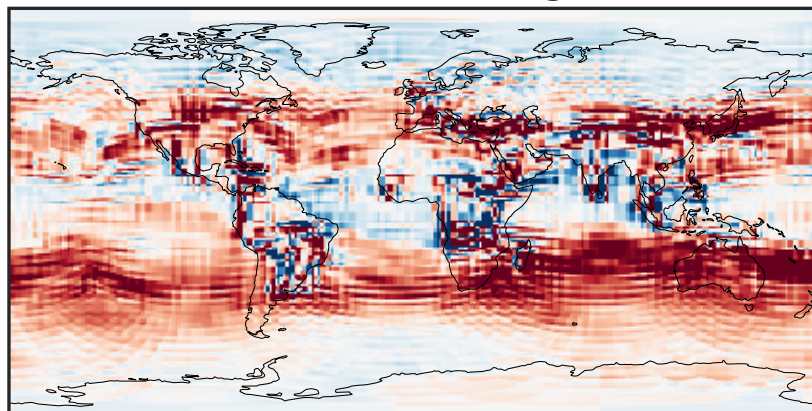
0.0012 0.0276 0.0552 0.0828 0.1116
ppb

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



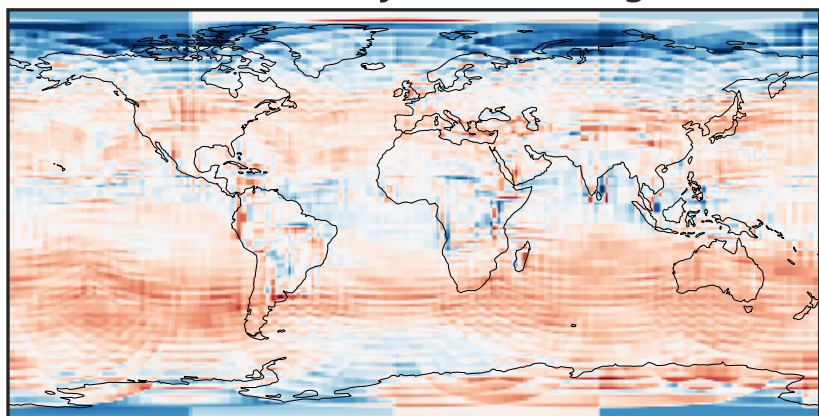
-0.025 0.000 0.025
ppb

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



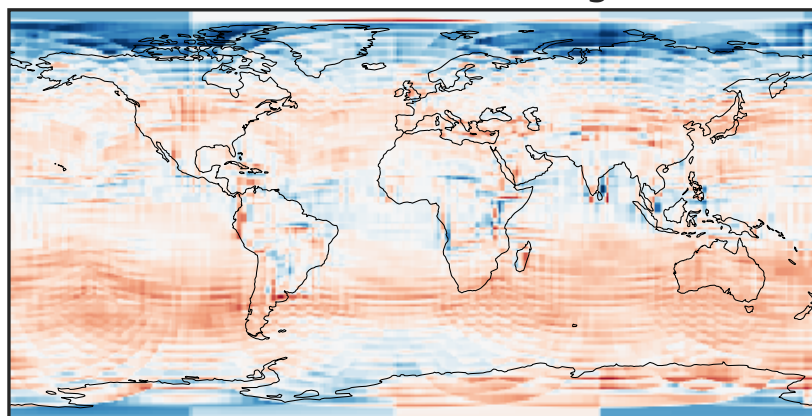
-0.004 0.000 0.004
ppb

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



0.538 0.769 1.000 1.430 1.860
unitless

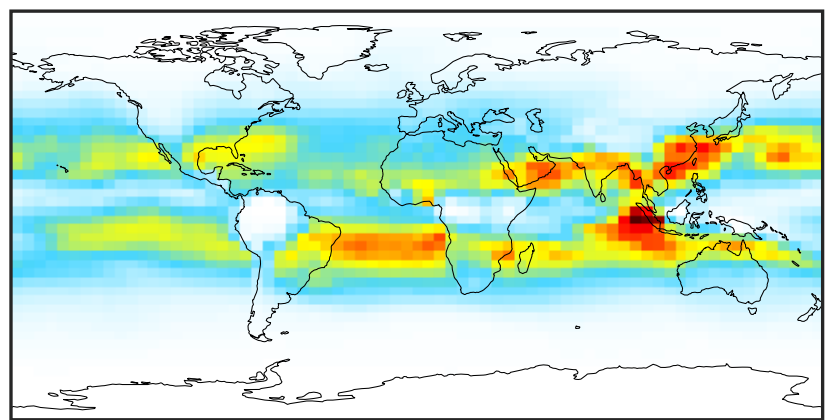
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

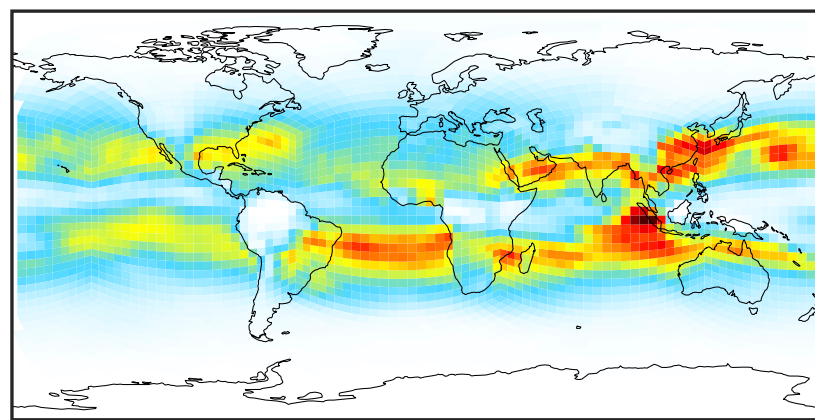
SpeciesConcVW_NO3 (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



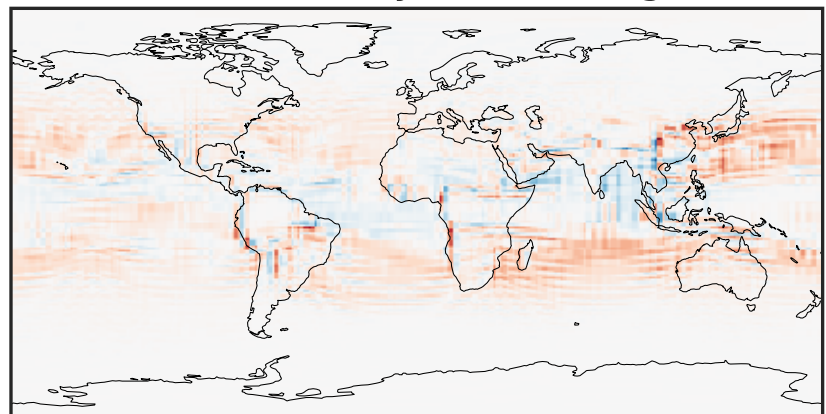
0.0015 0.0030 0.0045
ppb

GCHP_14.2.0 (Dev)
c24



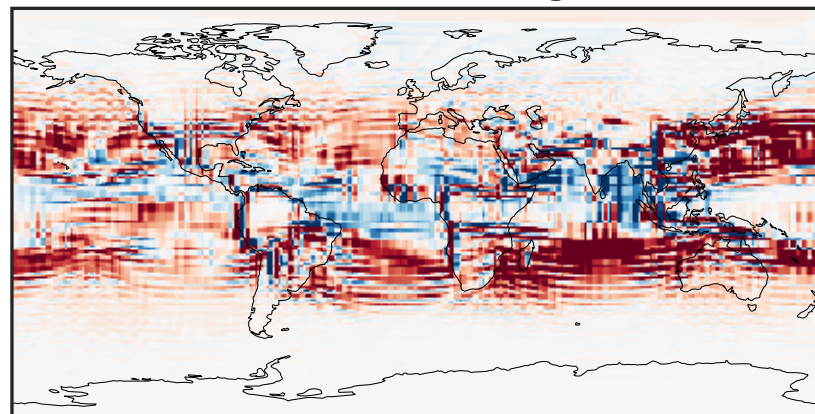
0.0015 0.0030 0.0045
ppb

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



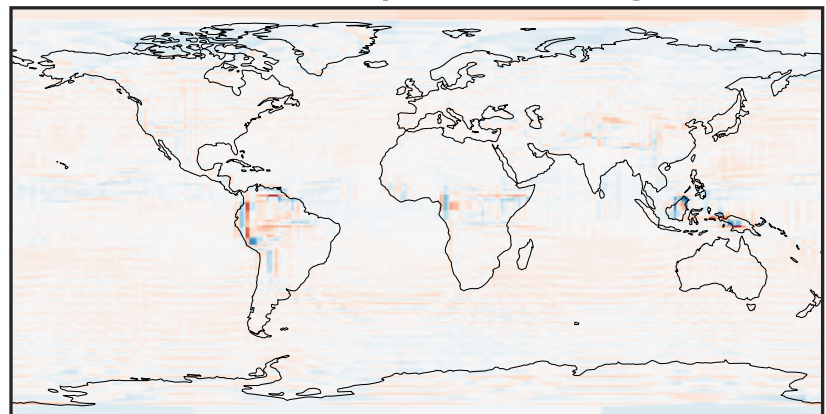
-0.0008 0.0000 0.0008
ppb

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



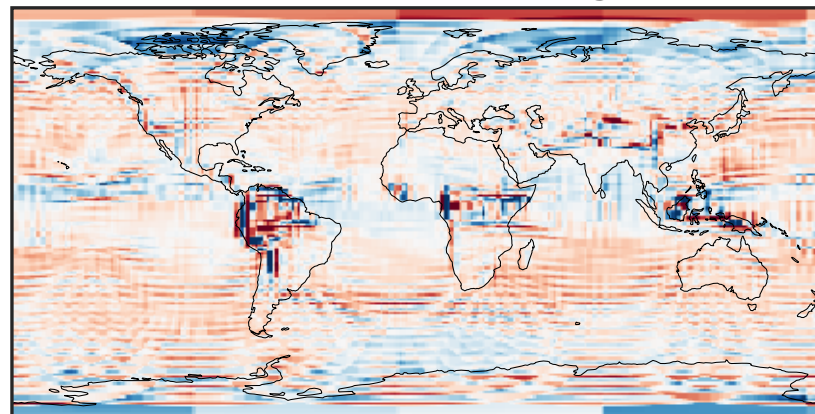
-0.00015 0.00000 0.00015
ppb

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



1e-01 1 10
unitless

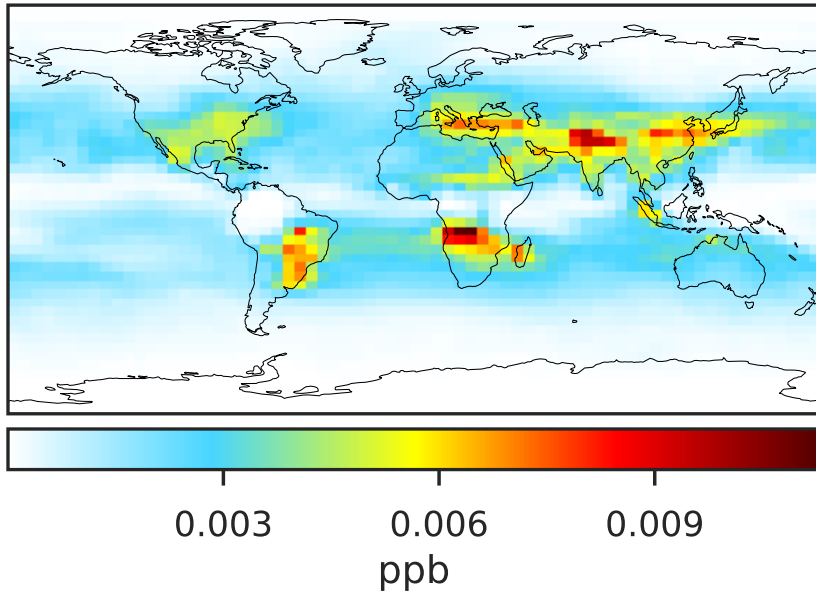
Ratio (1x1.25)
Dev/Ref, Fixed Range



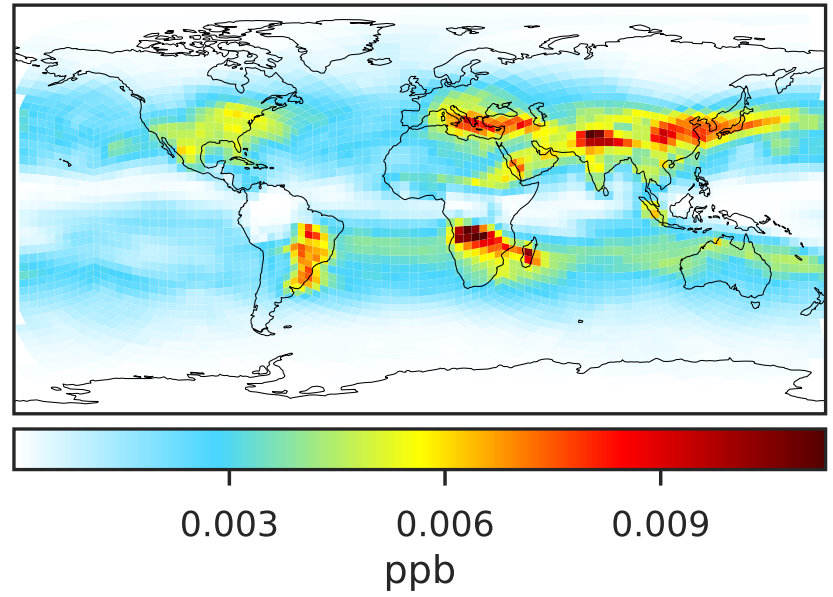
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_N2O5 (Oct2019)

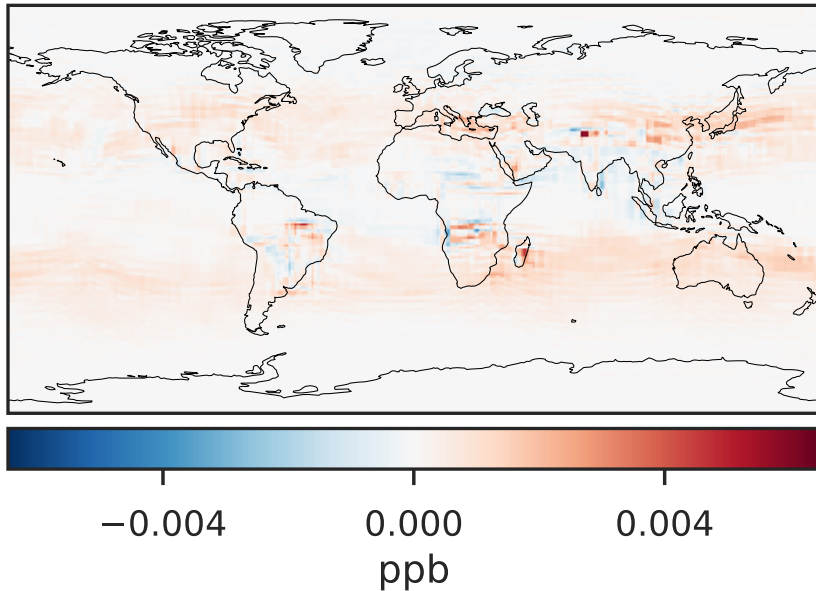
GCC_14.2.0 (Ref)
4.0x5.0



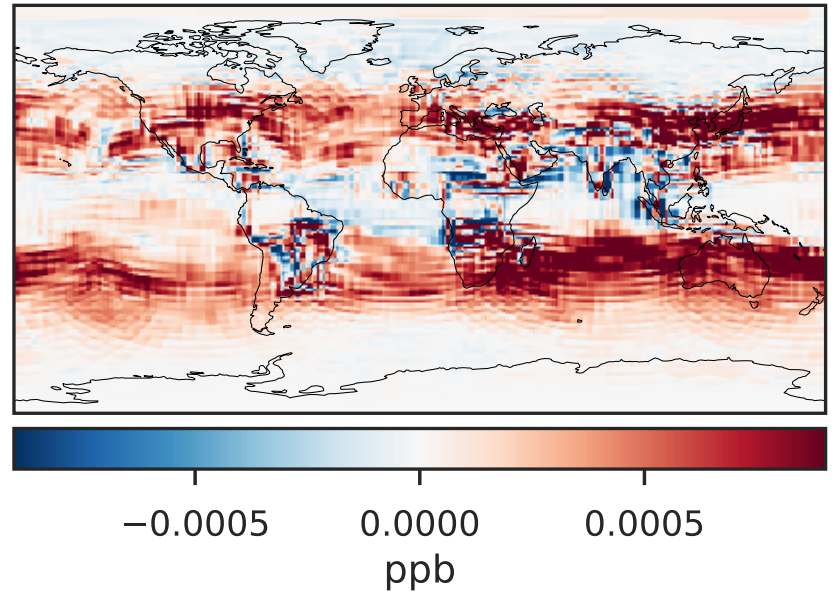
GCHP_14.2.0 (Dev)
c24



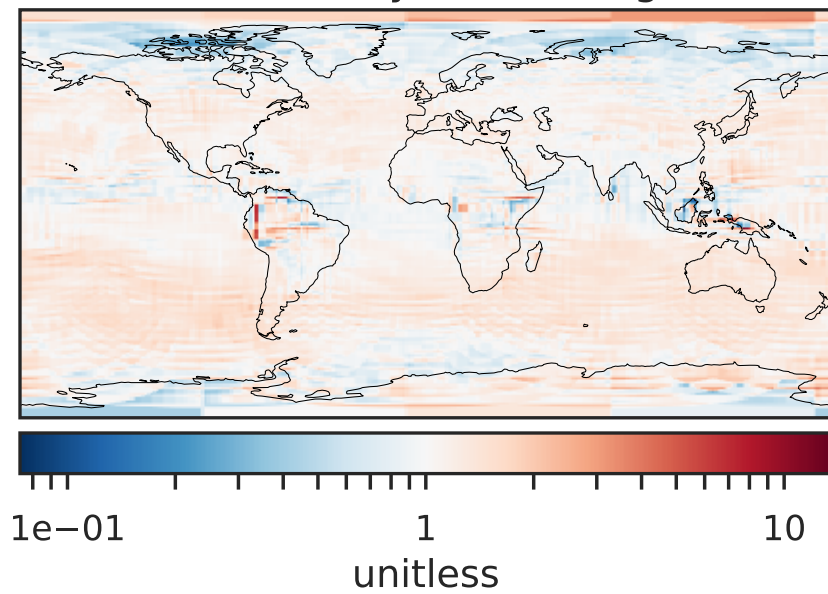
Difference (1x1.25)
Dev - Ref, Dynamic Range



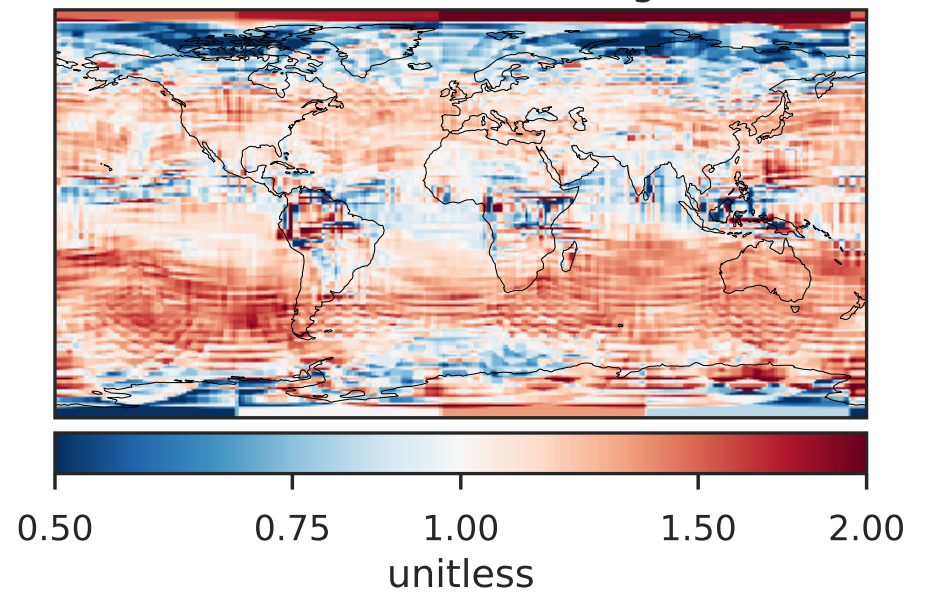
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

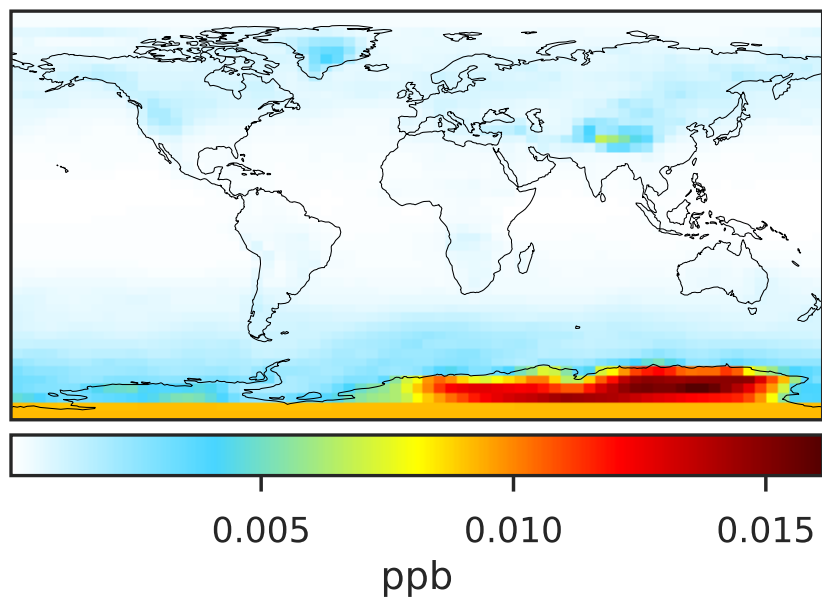


Ratio (1x1.25)
Dev/Ref, Fixed Range

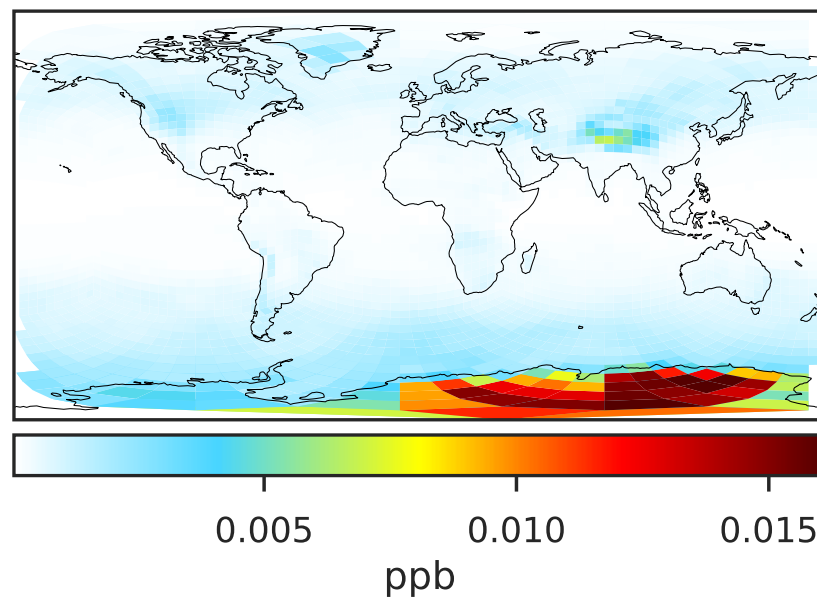


SpeciesConcVW_MPN (Oct2019)

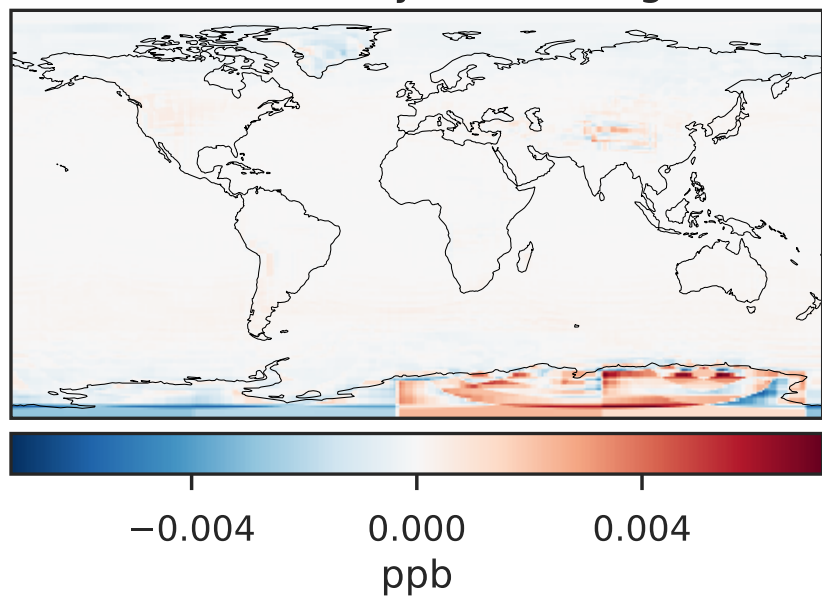
GCC_14.2.0 (Ref)
4.0x5.0



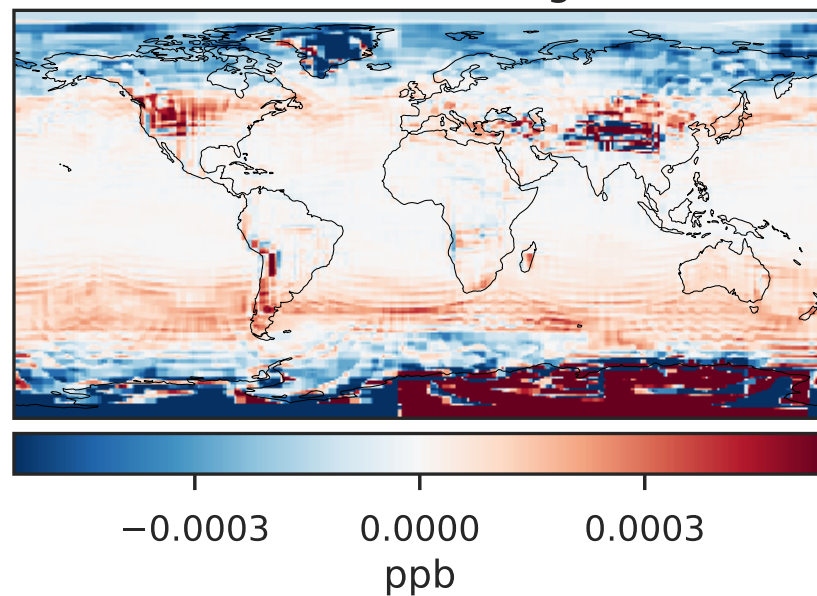
GCHP_14.2.0 (Dev)
c24



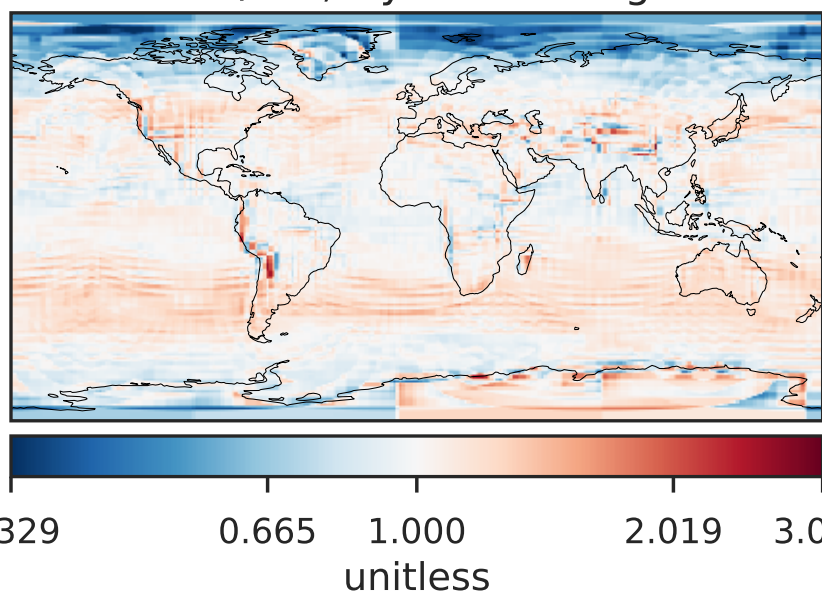
Difference (1x1.25)
Dev - Ref, Dynamic Range



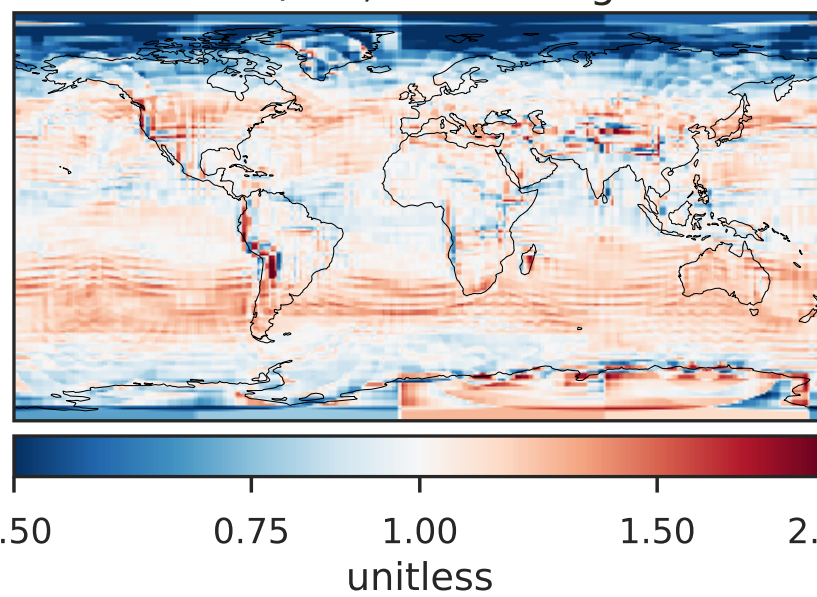
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

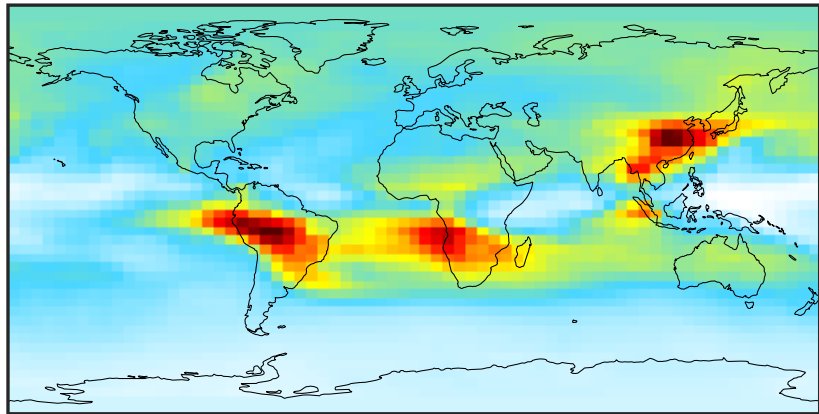


Ratio (1x1.25)
Dev/Ref, Fixed Range



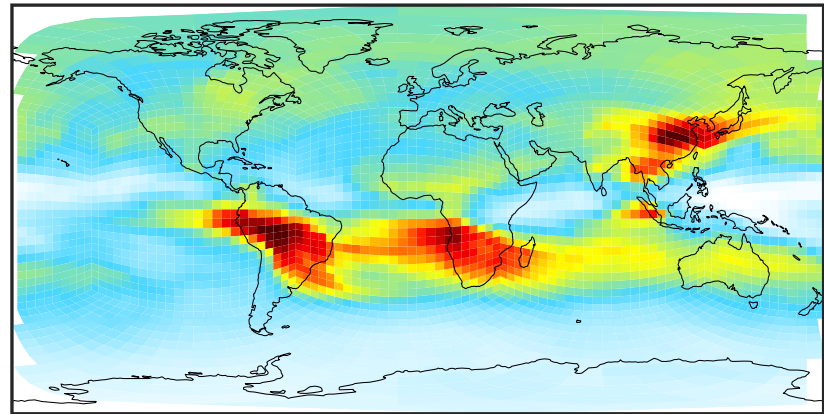
SpeciesConcVV_PAN (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



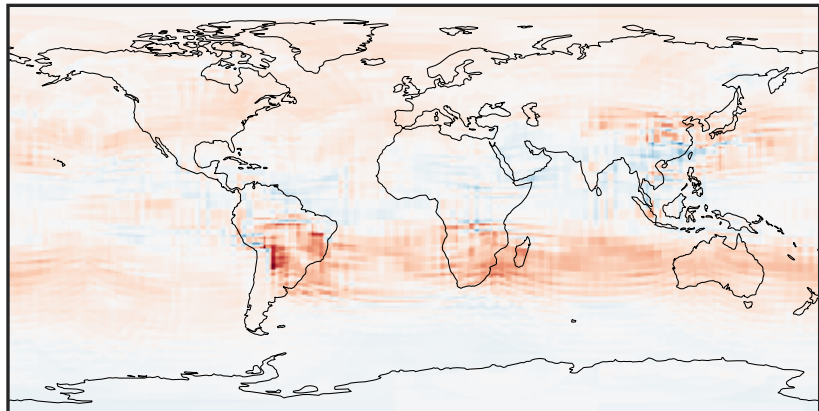
0.0107 0.1083 0.2166 0.3249 0.4439
ppb

GCHP_14.2.0 (Dev)
c24



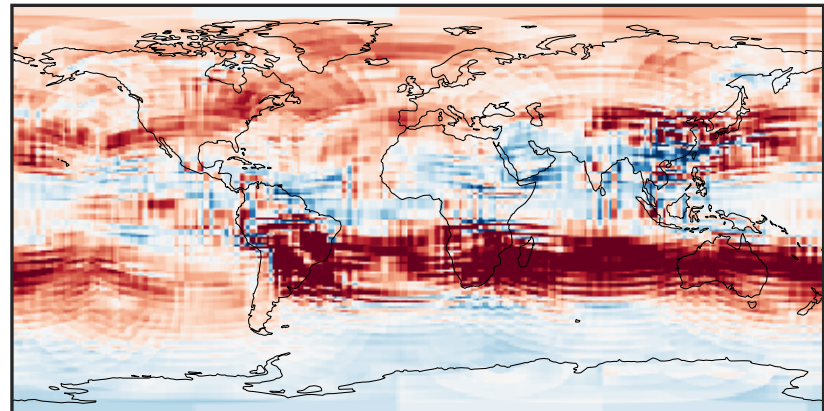
0.0107 0.1083 0.2166 0.3249 0.4439
ppb

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



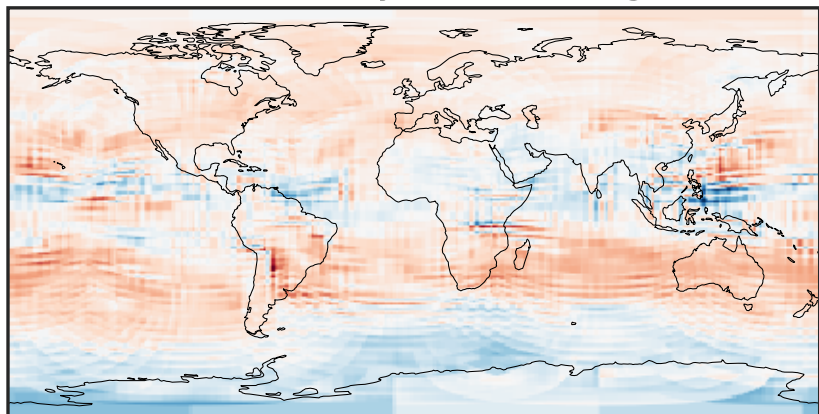
-0.1434 -0.0717 0.0000 0.0717 0.1434
ppb

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



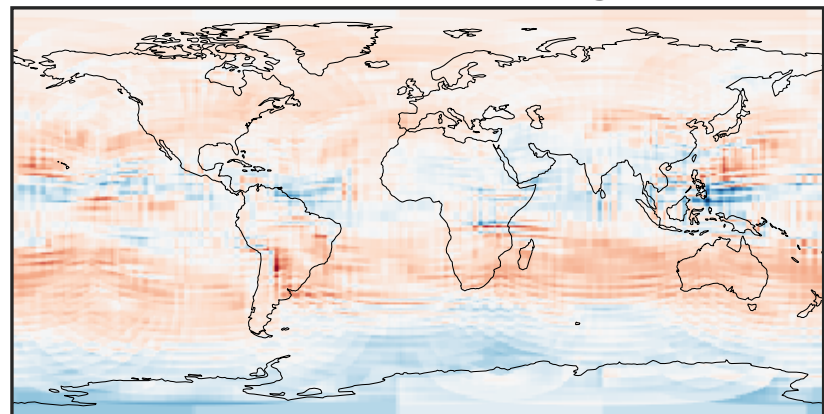
-0.02 0.00 0.02
ppb

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



0.531 0.765 1.000 1.442 1.884
unitless

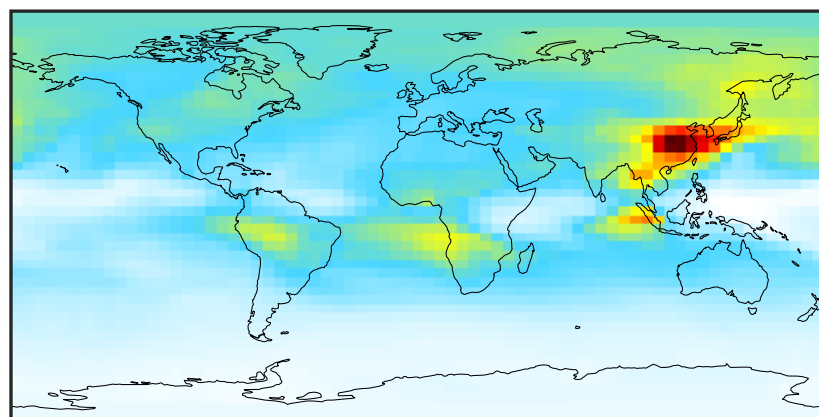
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

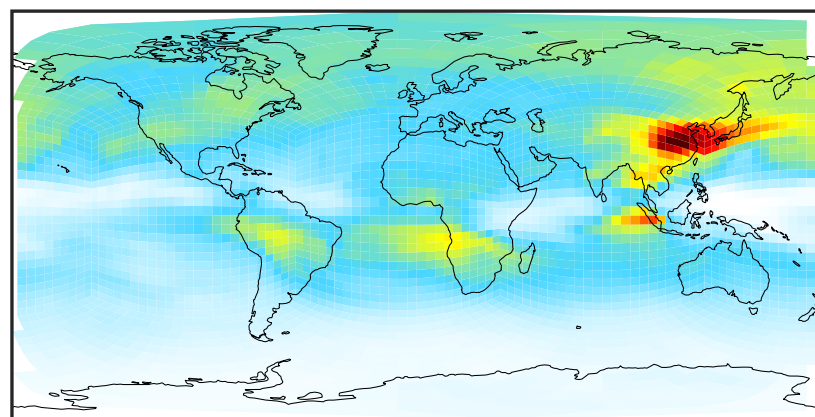
SpeciesConcVV_PPN (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



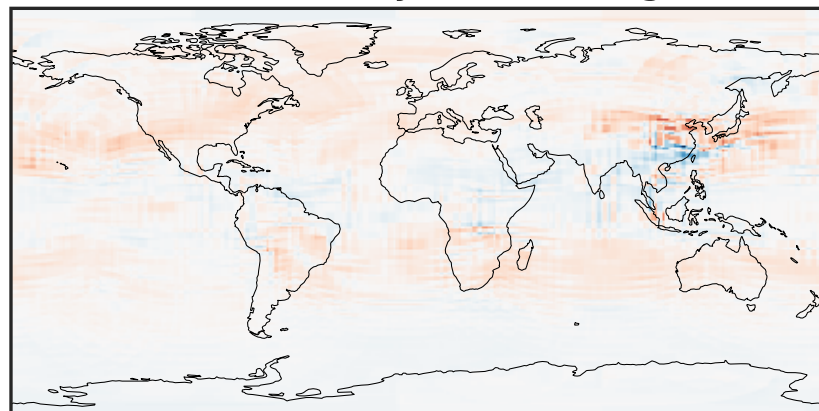
0.025 0.050 0.075
ppb

GCHP_14.2.0 (Dev)
c24



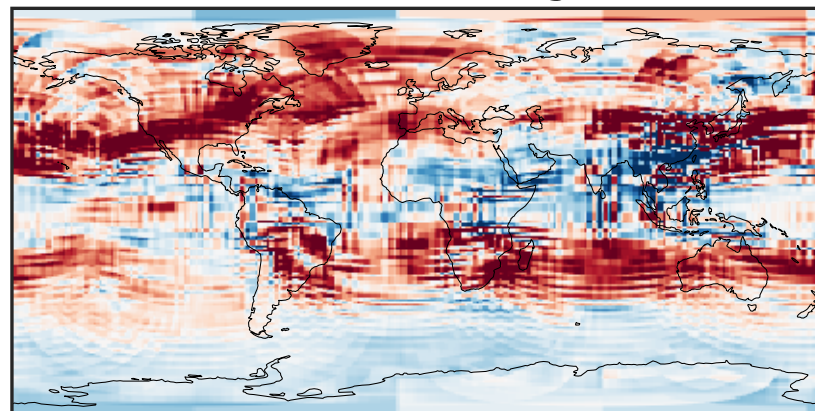
0.025 0.050 0.075
ppb

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



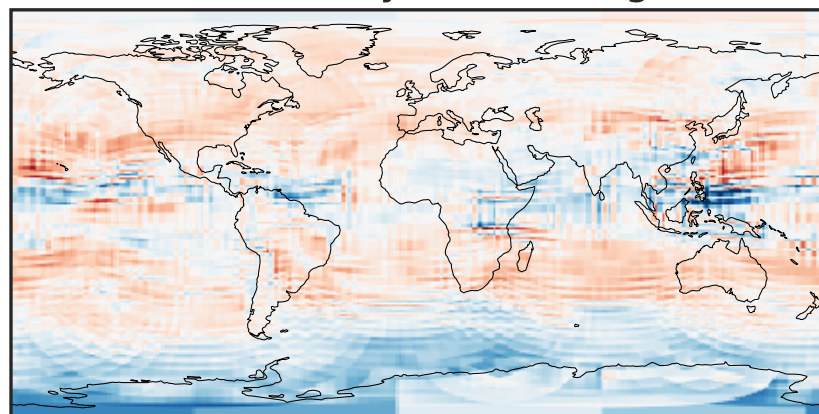
-0.015 0.000 0.015
ppb

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



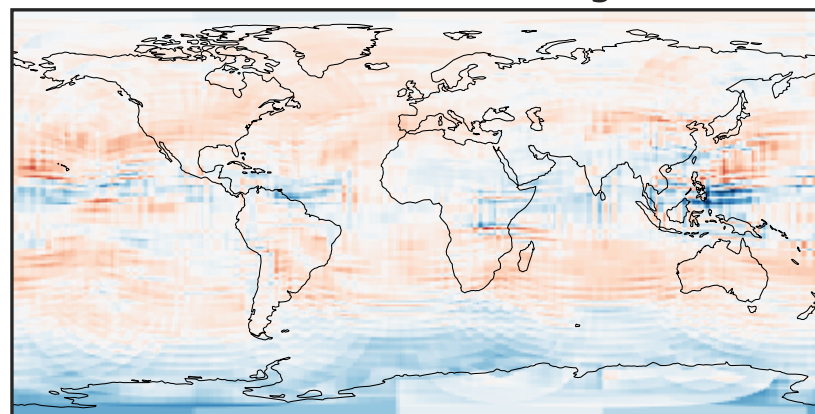
-0.002 0.000 0.002
ppb

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



0.585 0.792 1.000 1.355 1.710
unitless

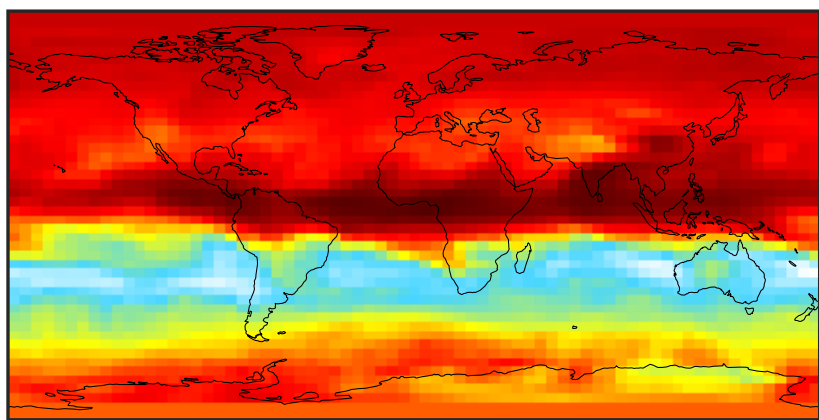
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

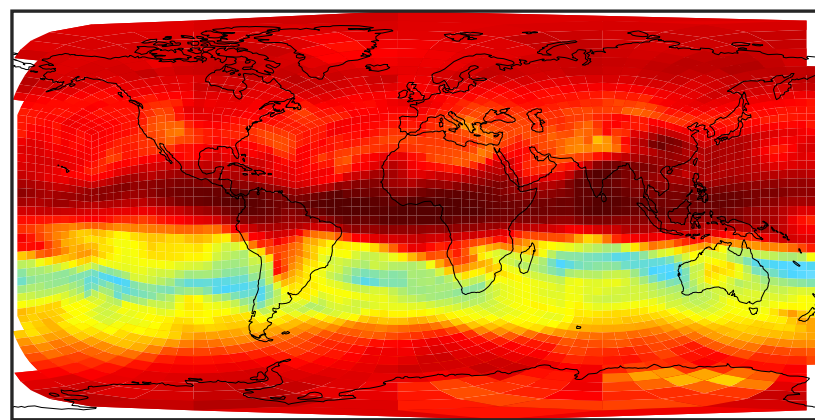
SpeciesConcVW_N2O (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



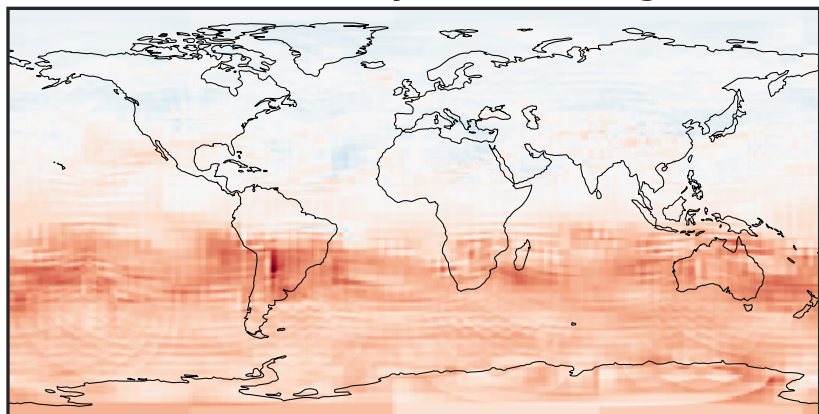
0.4 339.6
ppb

GCHP_14.2.0 (Dev)
c24



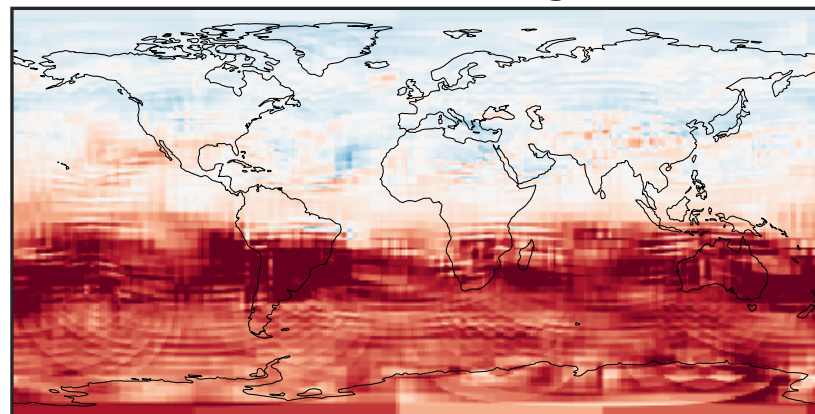
0.4 339.6
ppb

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



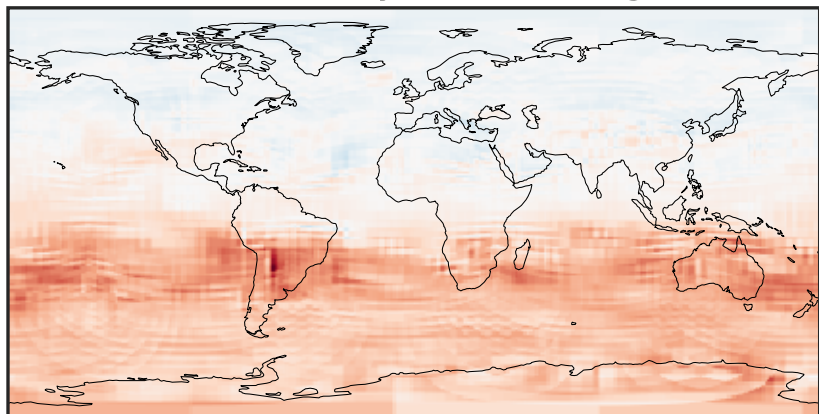
-0.422 -0.211 0.000 0.211 0.422
ppb

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



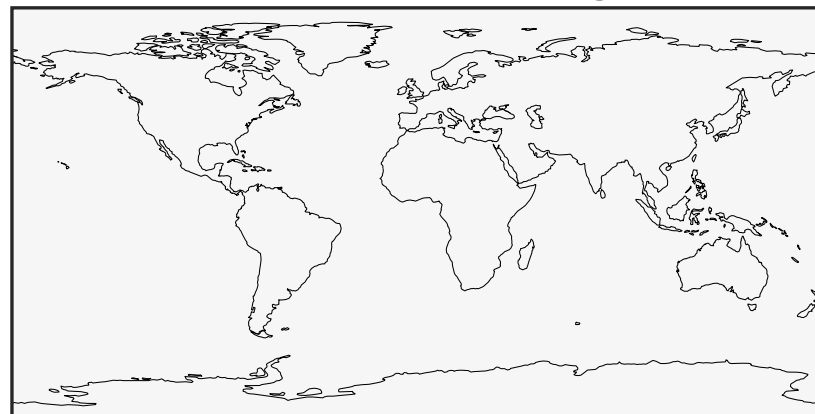
-0.1767 -0.0884 0.0000 0.0884 0.1767
ppb

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



0.998722 0.999361 1.000000 1.000640 1.001279
unitless

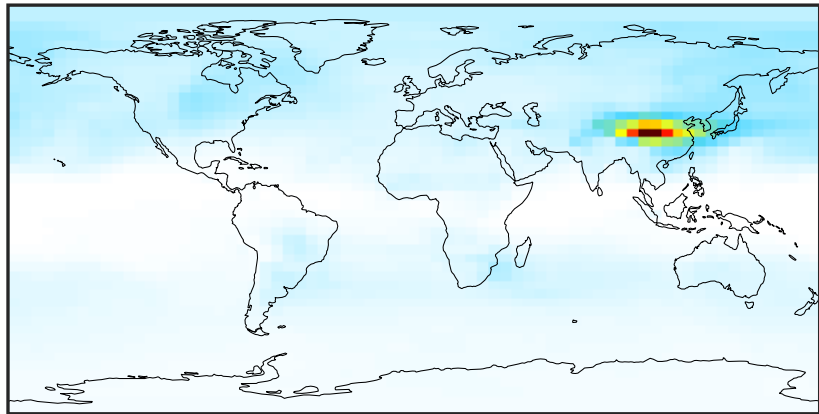
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

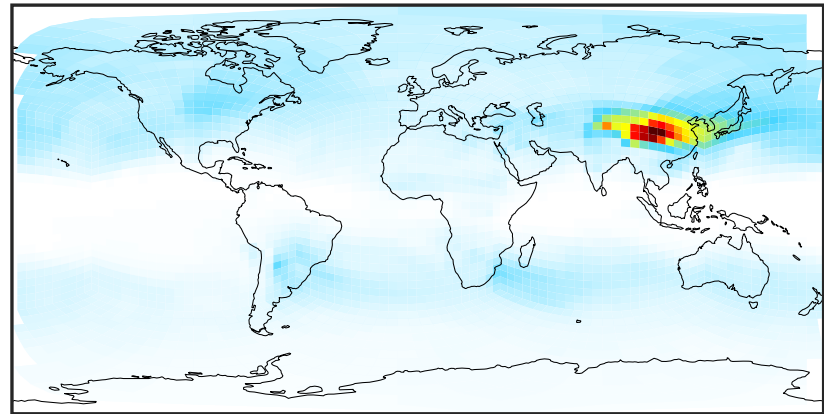
SpeciesConcVV_NHx (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



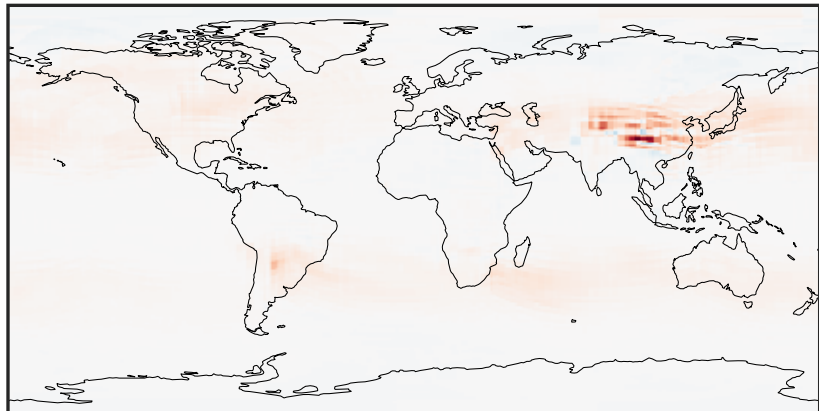
0.001 0.342 0.685 1.027 1.370
ppb

GCHP_14.2.0 (Dev)
c24



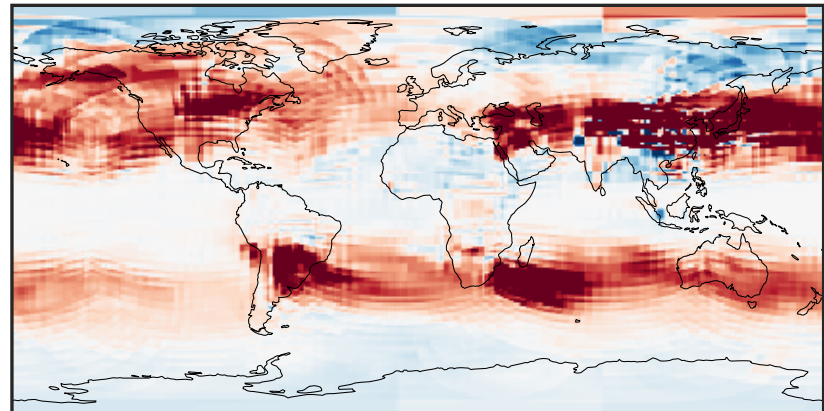
0.001 0.342 0.685 1.027 1.370
ppb

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



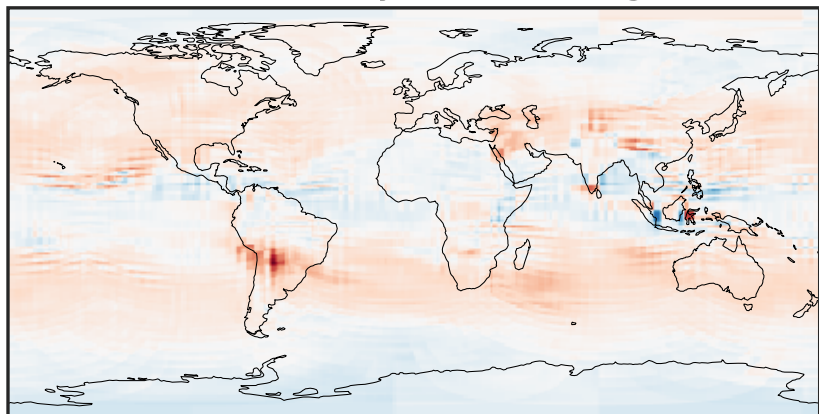
-0.763 -0.382 0.000 0.382 0.763
ppb

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



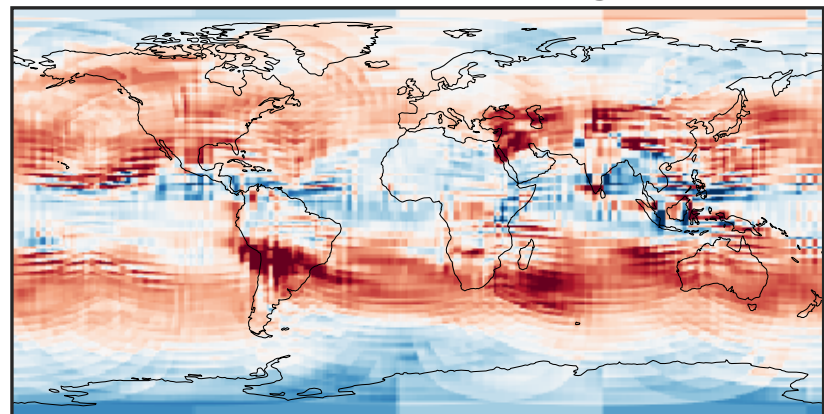
-0.025 0.000 0.025
ppb

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



1e-01 1 10
unitless

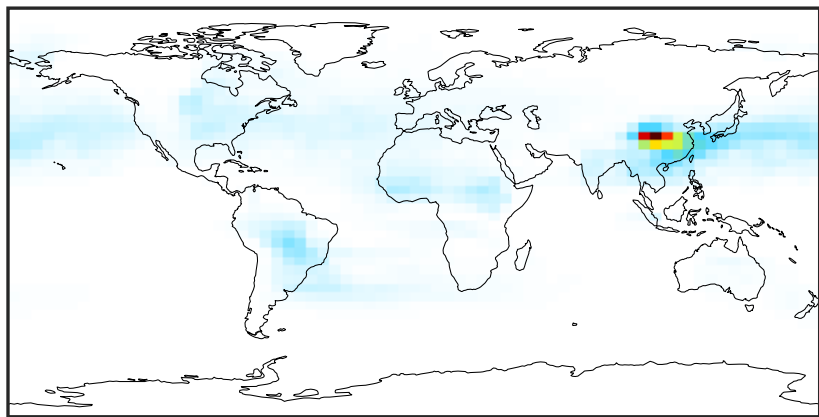
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

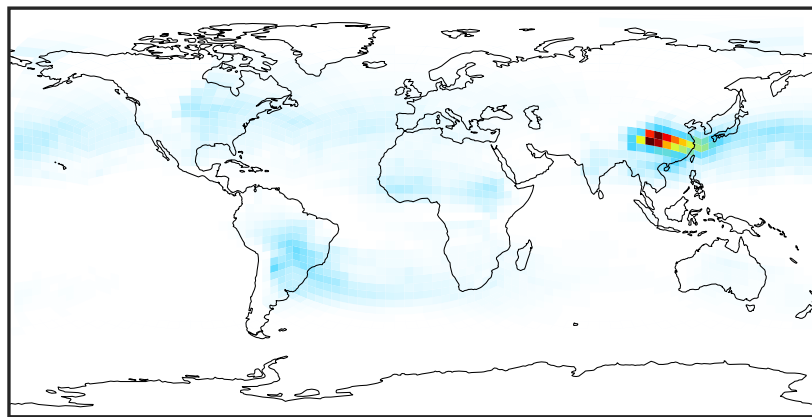
SpeciesConcVV_NH3 (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



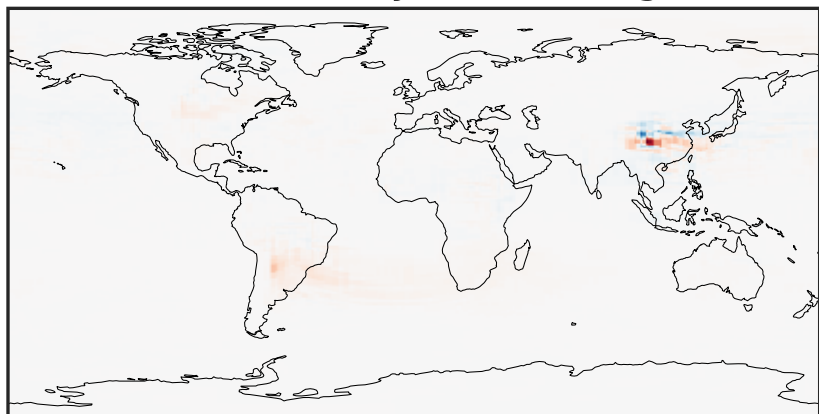
0.0000 0.1016 0.2033 0.3049 0.4066
ppb

GCHP_14.2.0 (Dev)
c24



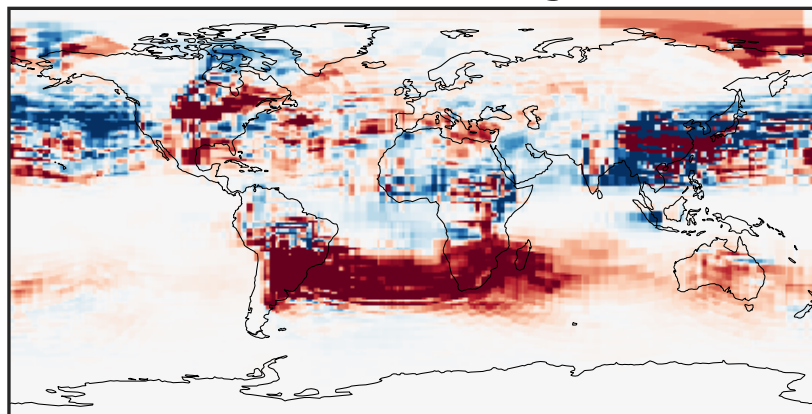
0.0000 0.1016 0.2033 0.3049 0.4066
ppb

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



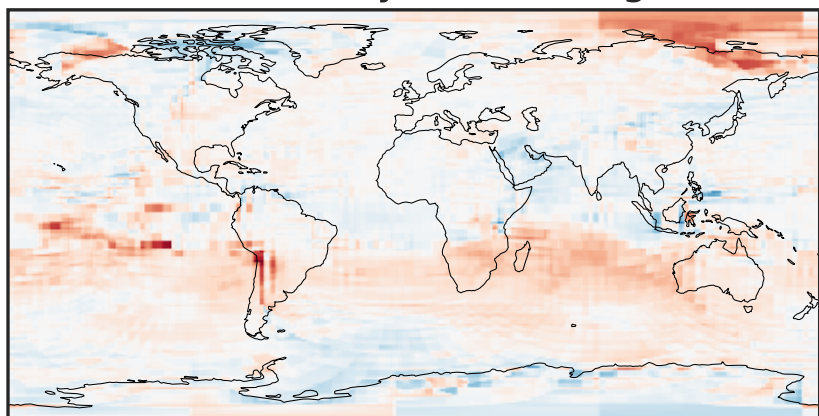
-0.2956 -0.1478 0.0000 0.1478 0.2956
ppb

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



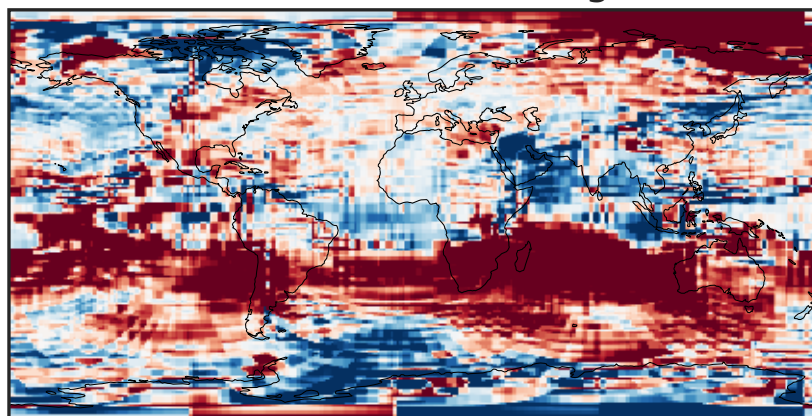
-0.003 0.000 0.003
ppb

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



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

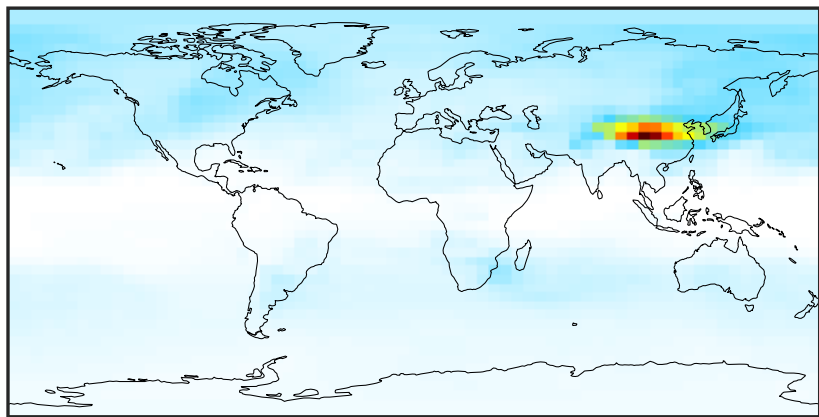
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

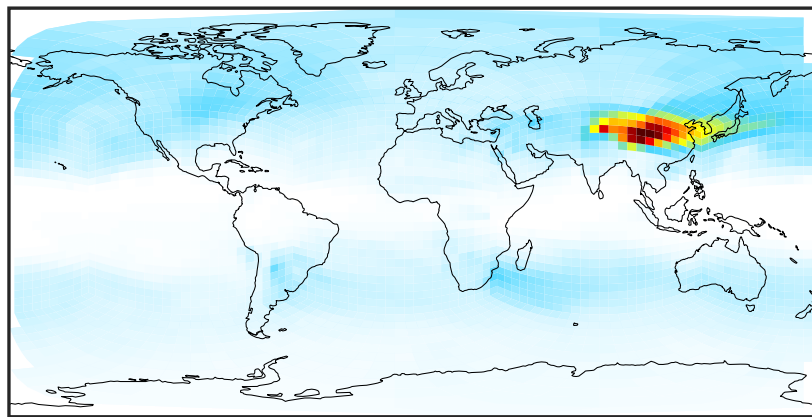
SpeciesConcVV_NH4 (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



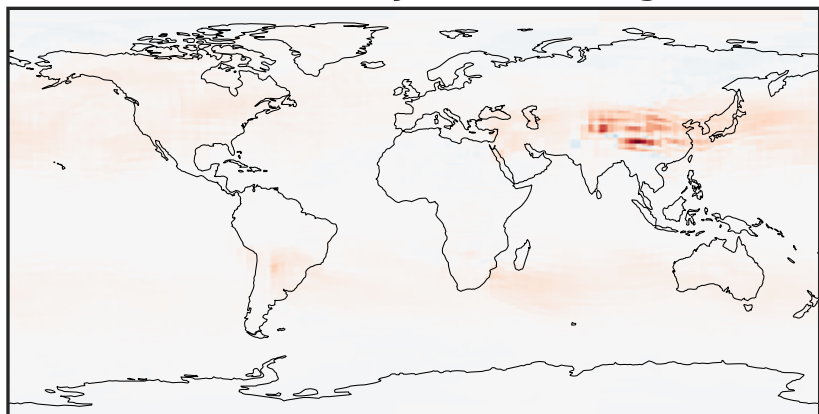
0.00 0.26 0.52 0.78 1.04
ppb

GCHP_14.2.0 (Dev)
c24



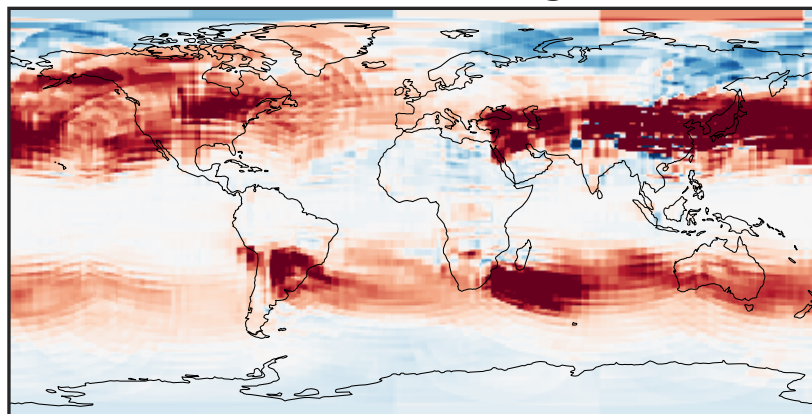
0.00 0.26 0.52 0.78 1.04
ppb

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



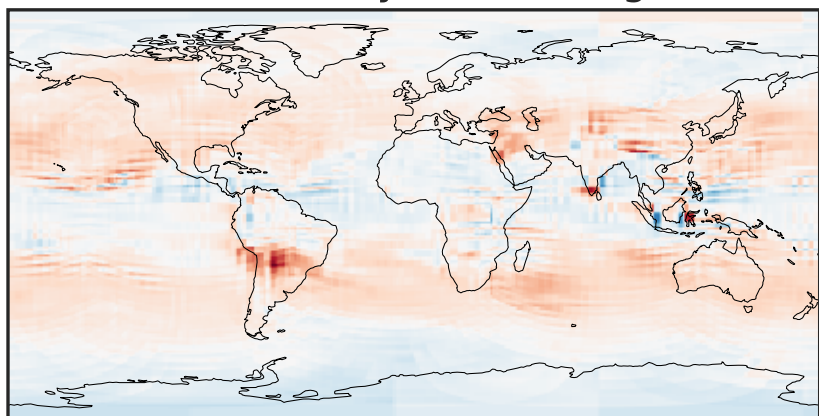
-0.669 -0.334 0.000 0.334 0.669
ppb

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



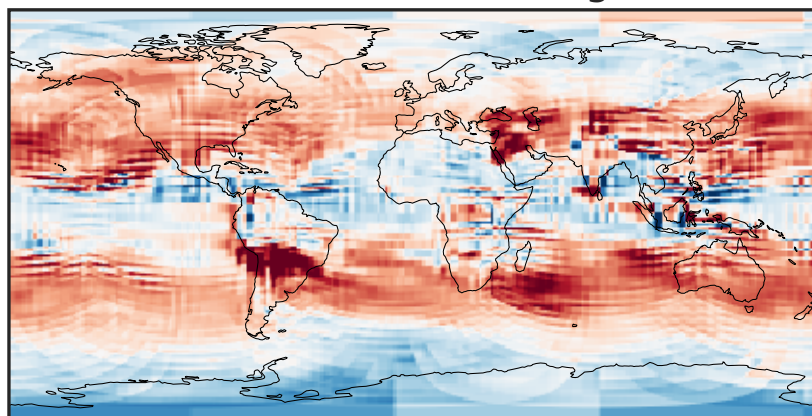
-0.025 0.000 0.025
ppb

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



0.127 0.564 1.000 4.425 7.851
unitless

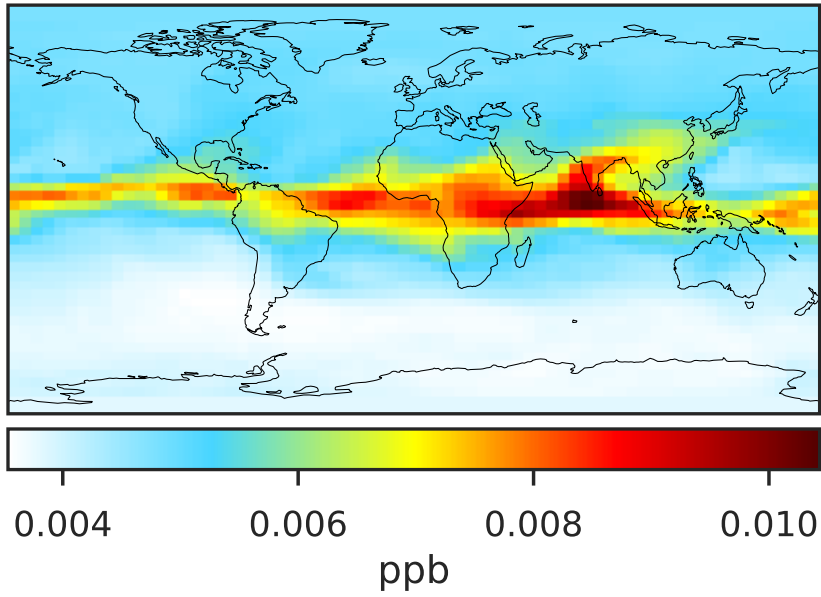
Ratio (1x1.25)
Dev/Ref, Fixed Range



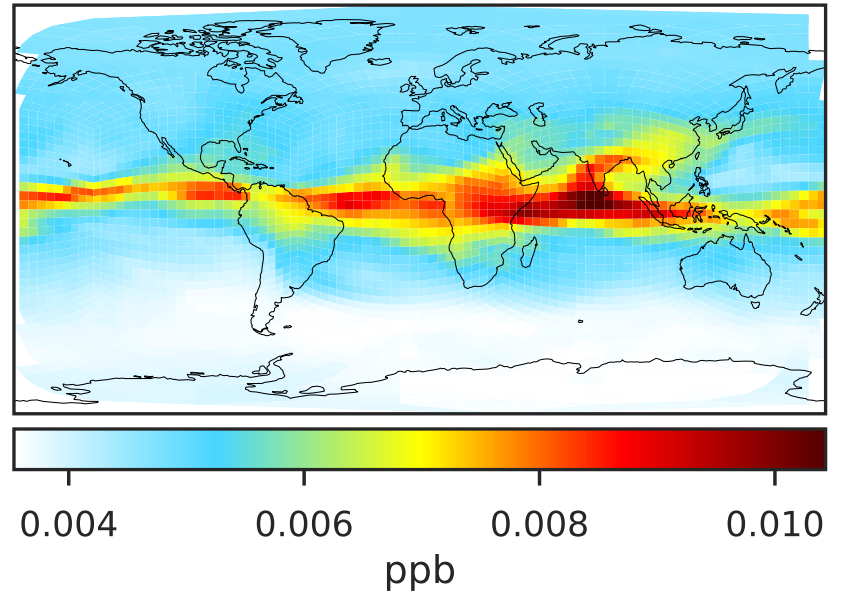
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_MENO3 (Oct2019)

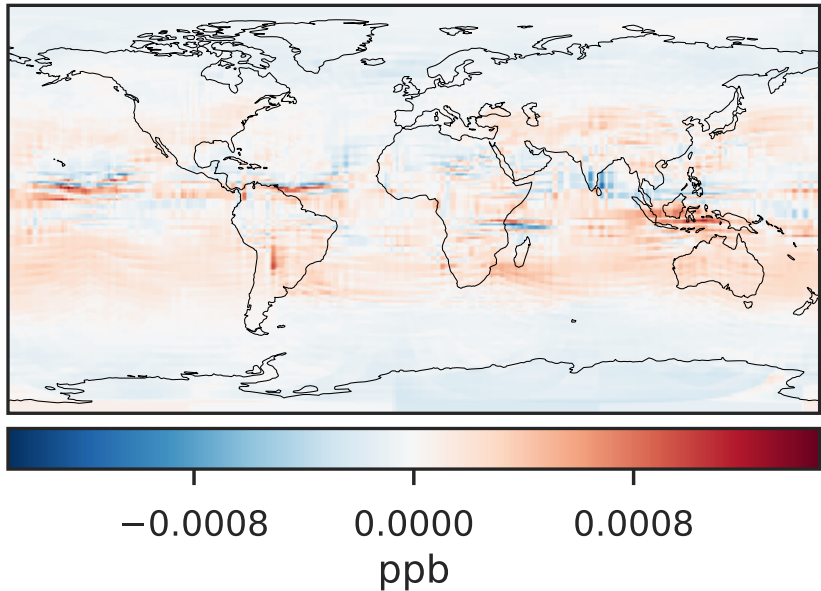
GCC_14.2.0 (Ref)
4.0x5.0



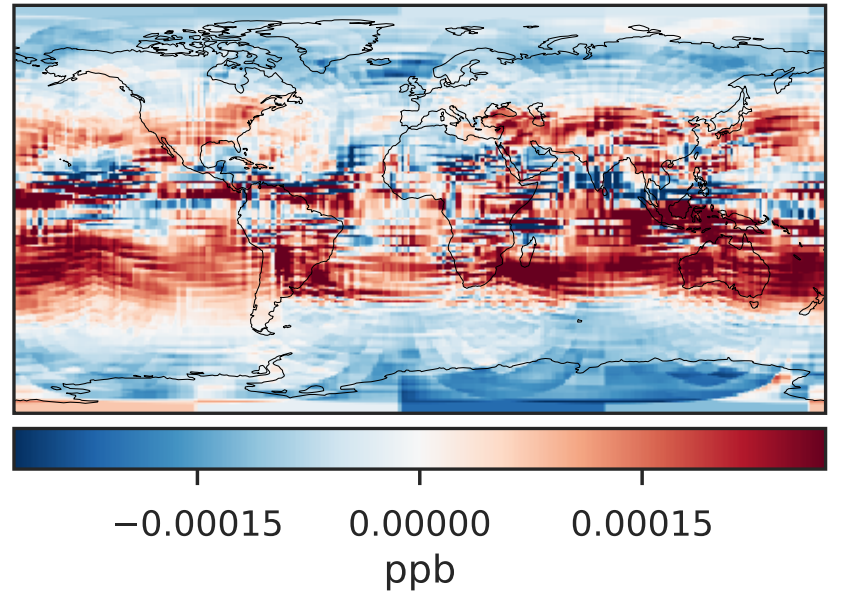
GCHP_14.2.0 (Dev)
c24



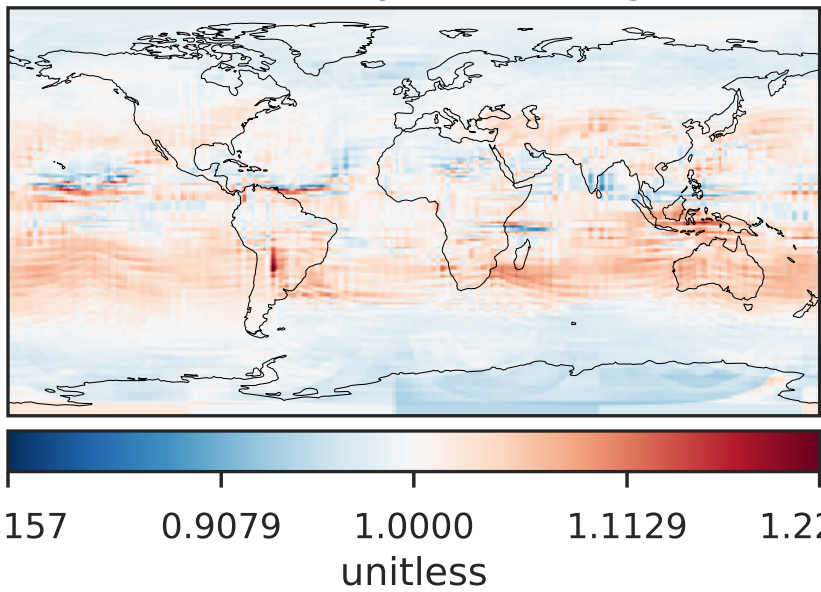
Difference (1x1.25)
Dev - Ref, Dynamic Range



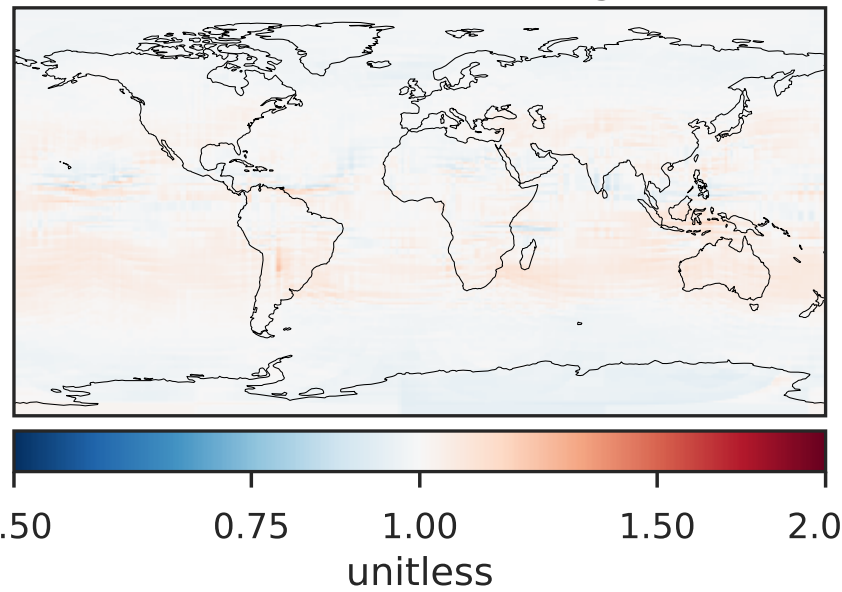
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

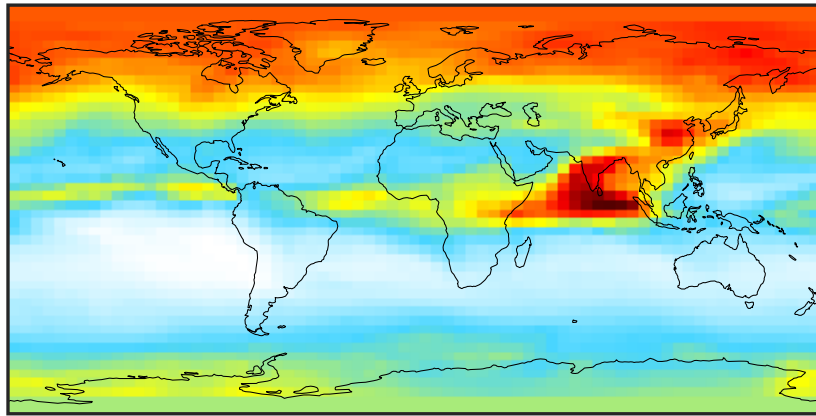


Ratio (1x1.25)
Dev/Ref, Fixed Range



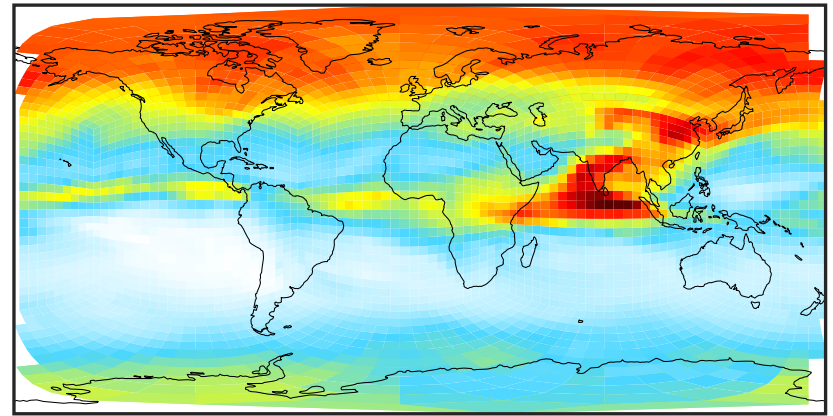
SpeciesConcVV_ETNO3 (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



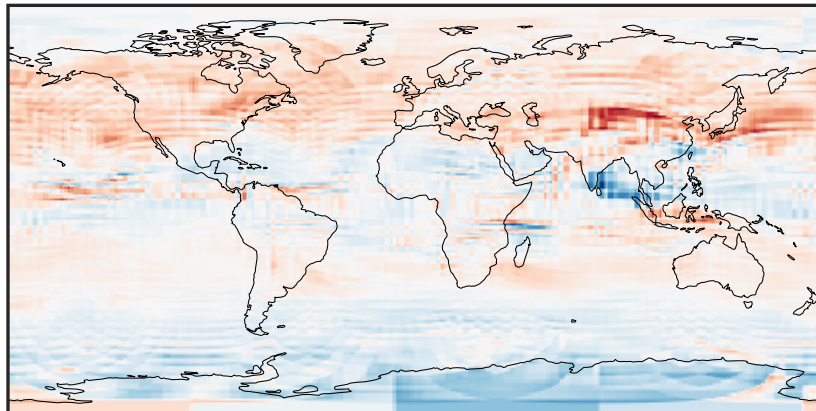
0.0008 0.0016 0.0024 0.0032
ppb

GCHP_14.2.0 (Dev)
c24



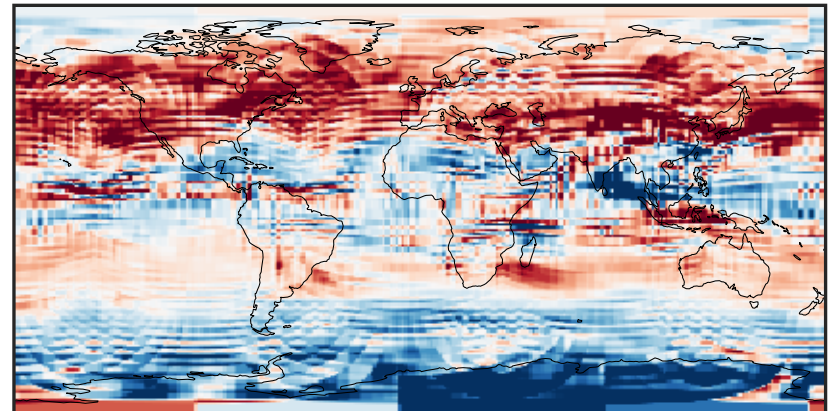
0.0008 0.0016 0.0024 0.0032
ppb

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



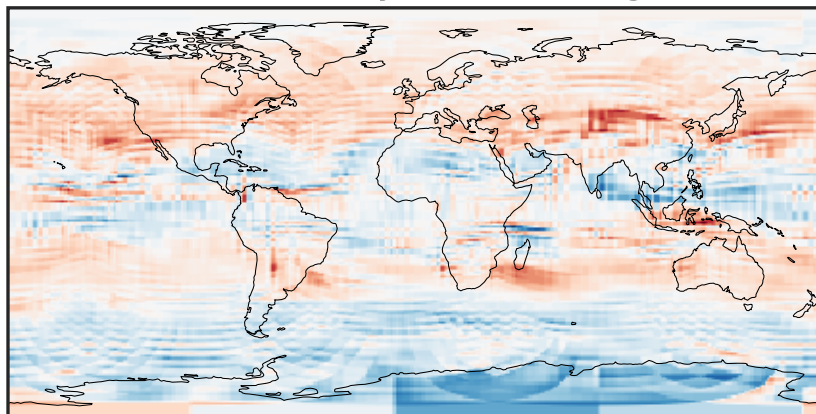
-0.0003 0.0000 0.0003
ppb

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



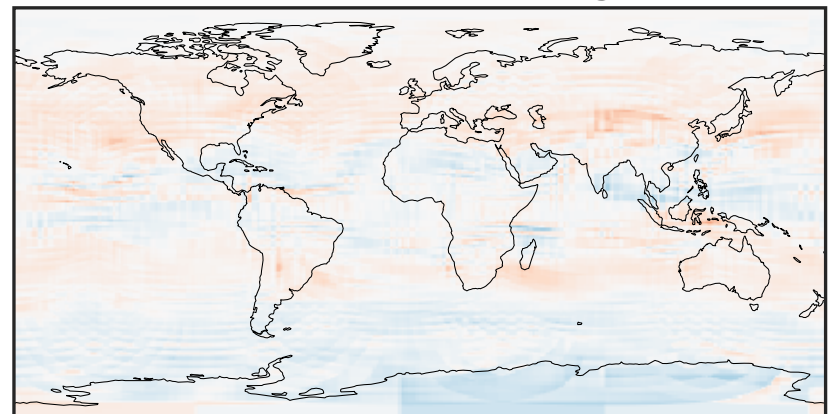
-0.0001 0.0000 0.0001
ppb

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



0.7622 0.8811 1.0000 1.1560 1.3121
unitless

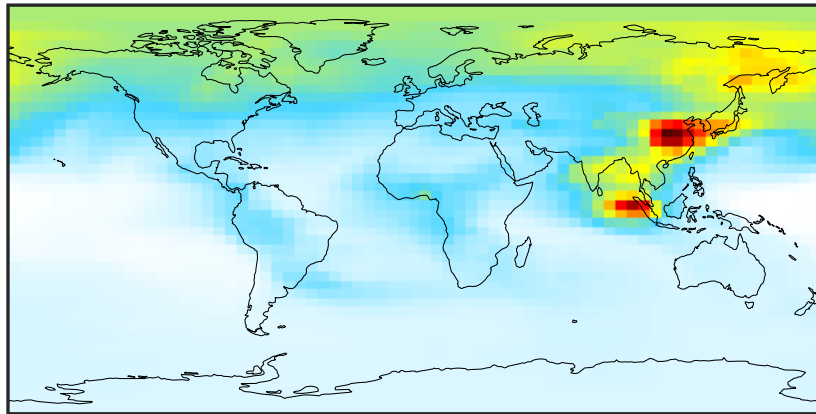
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

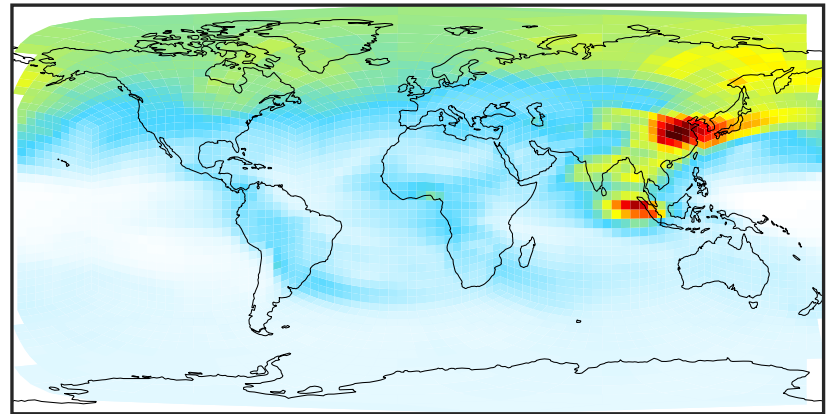
SpeciesConcVV_IPRNO3 (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



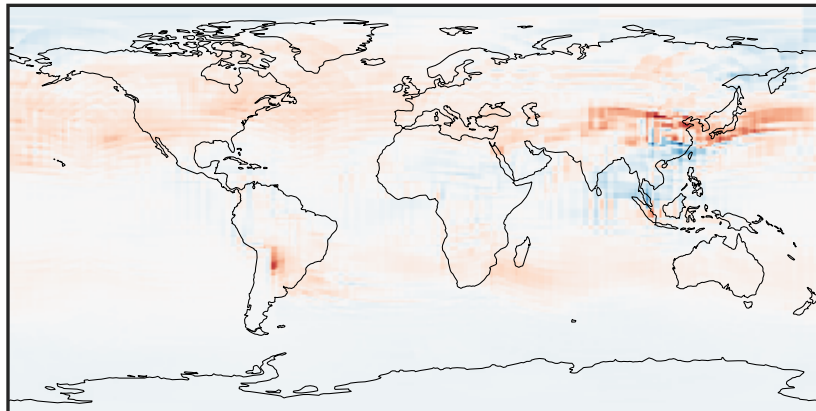
0.004 0.008 0.012
ppb

GCHP_14.2.0 (Dev)
c24



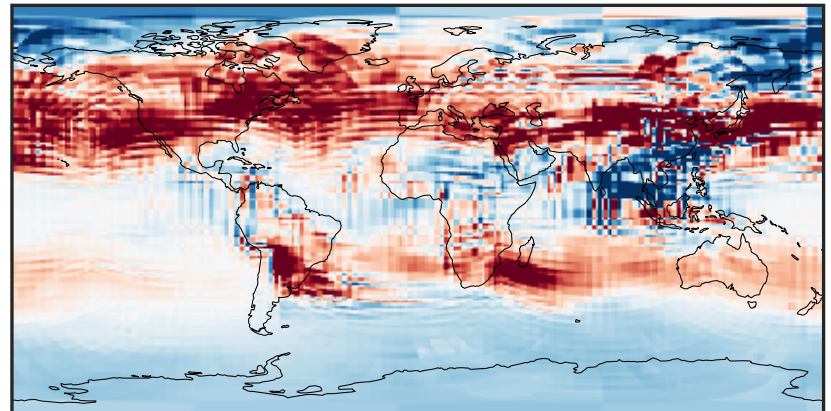
0.004 0.008 0.012
ppb

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



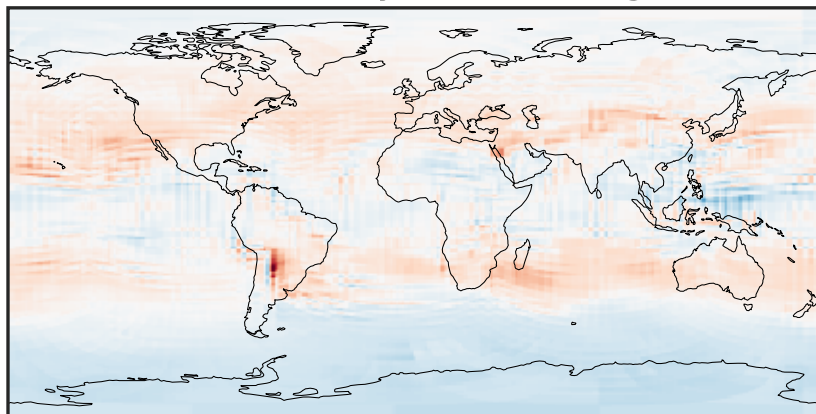
-0.0025 0.0000 0.0025
ppb

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



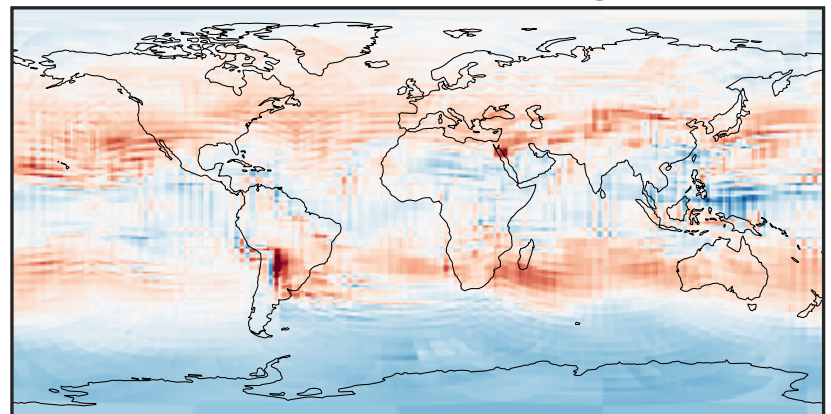
-0.0004 0.0000 0.0004
ppb

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



0.283 0.641 1.000 2.269 3.537
unitless

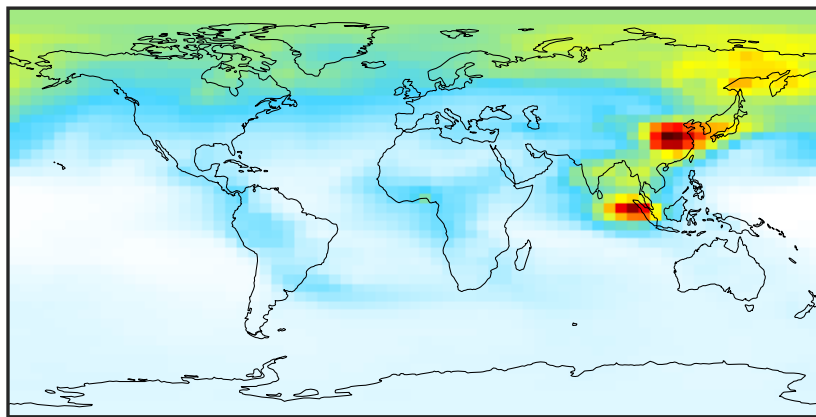
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

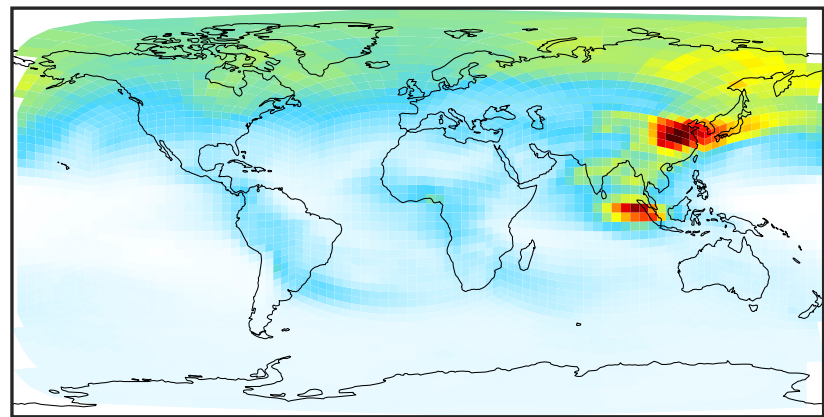
SpeciesConcVV_NPRNO3 (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



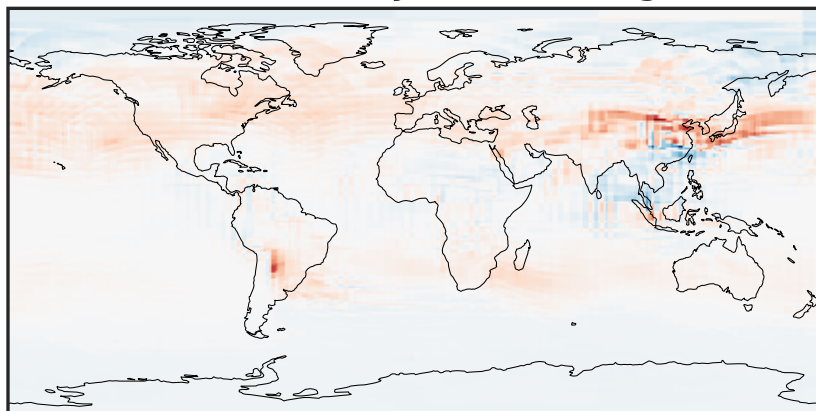
0.001 0.002 0.003
ppb

GCHP_14.2.0 (Dev)
c24



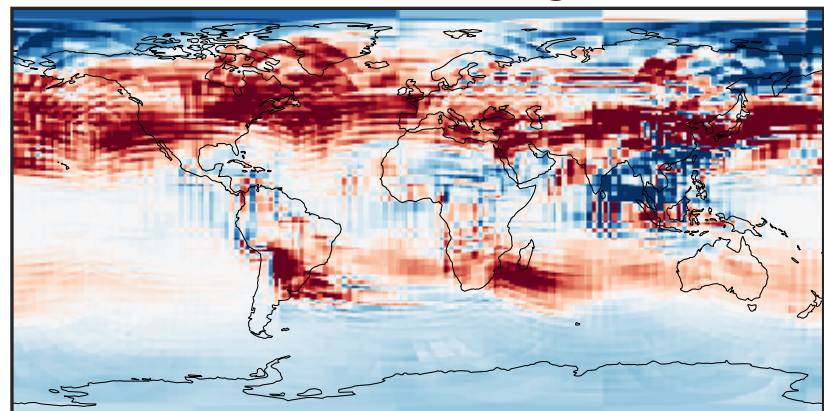
0.001 0.002 0.003
ppb

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



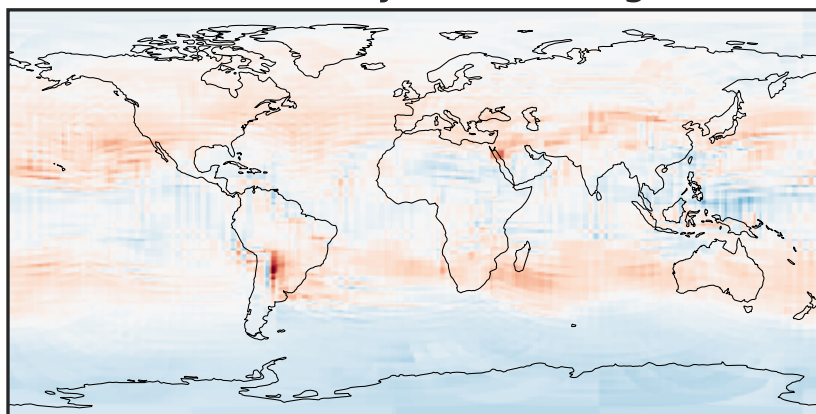
-0.0006 0.0000 0.0006
ppb

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



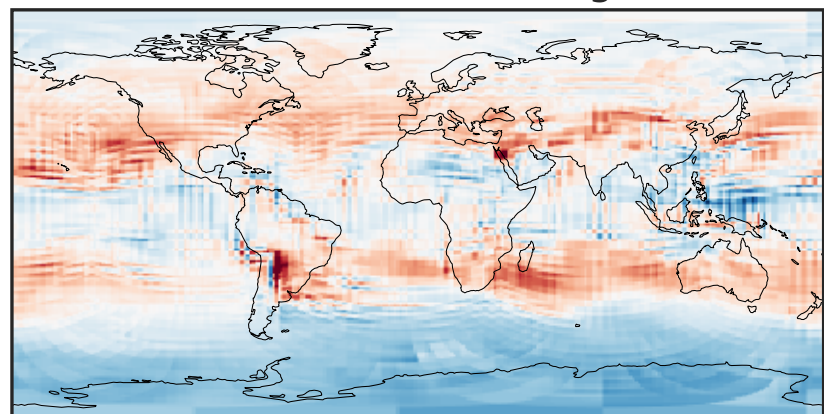
-8 0 8
ppb $1e-5$

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



0.253 0.627 1.000 2.476 3.951
unitless

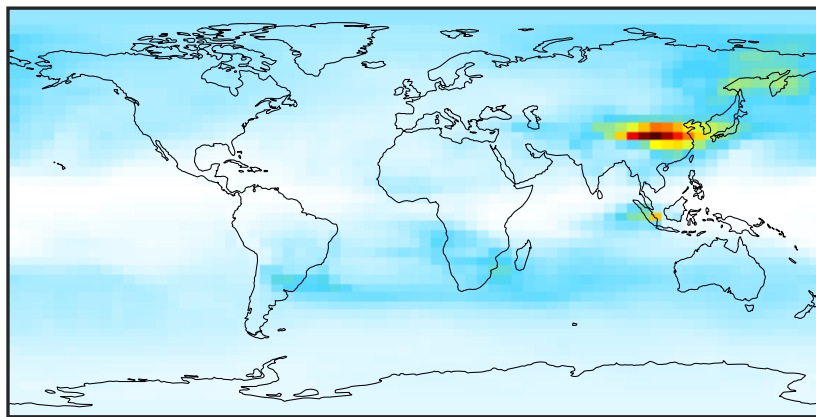
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

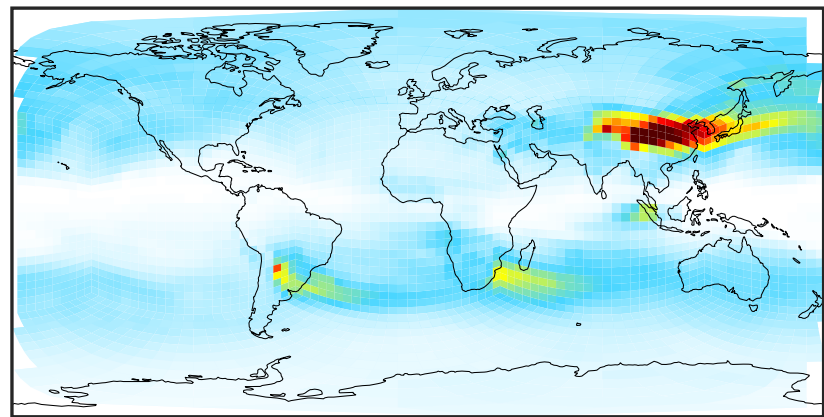
SpeciesConcVV_AONITA (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



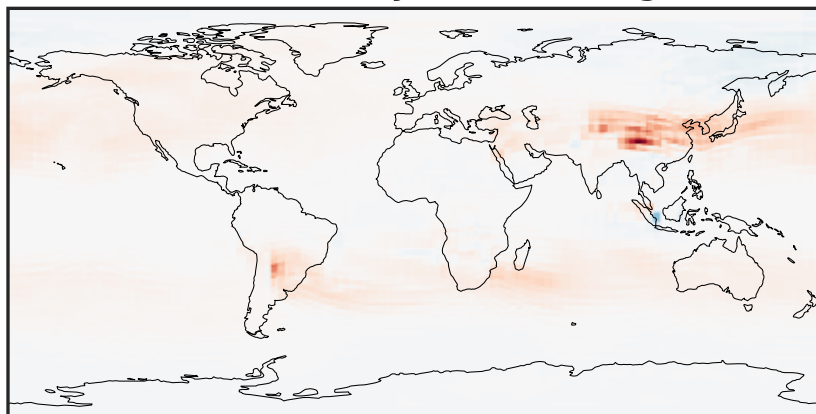
0.0015 0.0030 0.0045
ppb

GCHP_14.2.0 (Dev)
c24



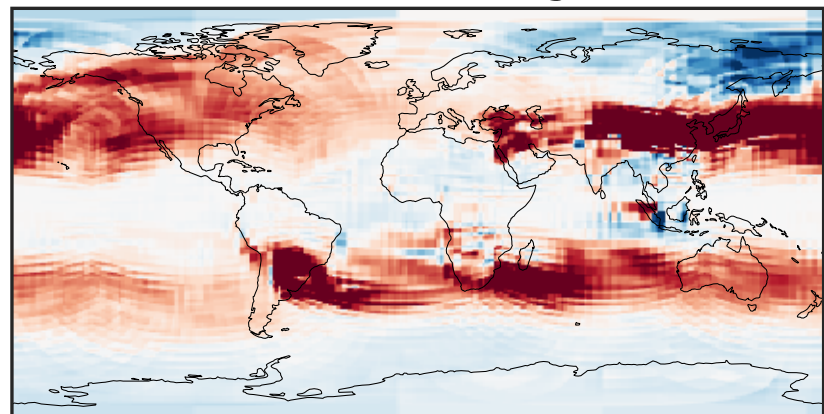
0.0015 0.0030 0.0045
ppb

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



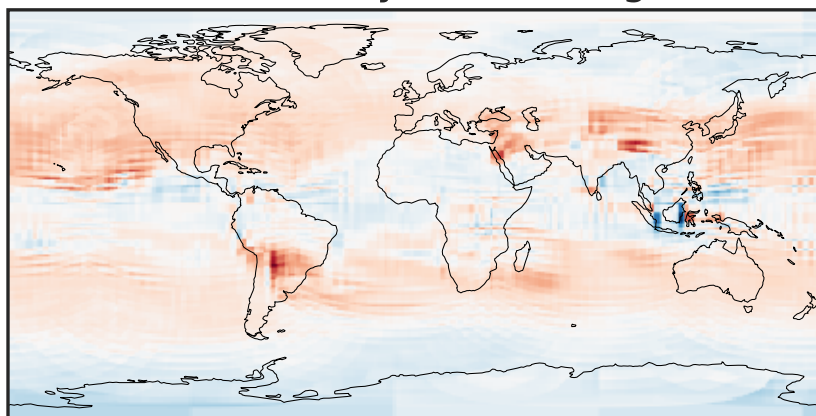
-0.004 0.000 0.004
ppb

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



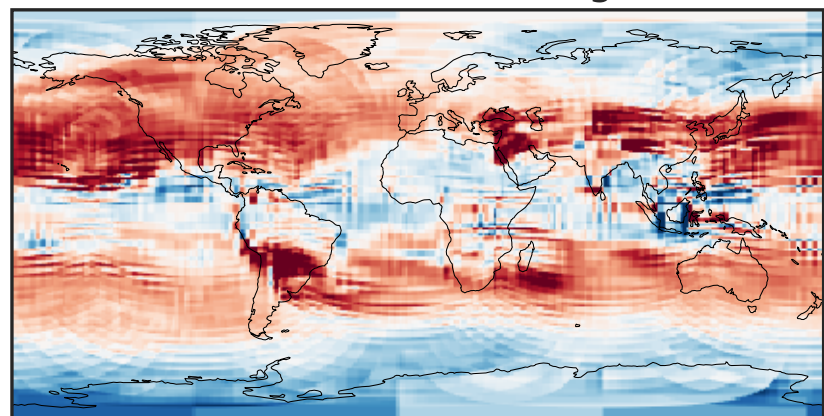
-0.0003 0.0000 0.0003
ppb

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



0.126 0.563 1.000 4.469 7.938
unitless

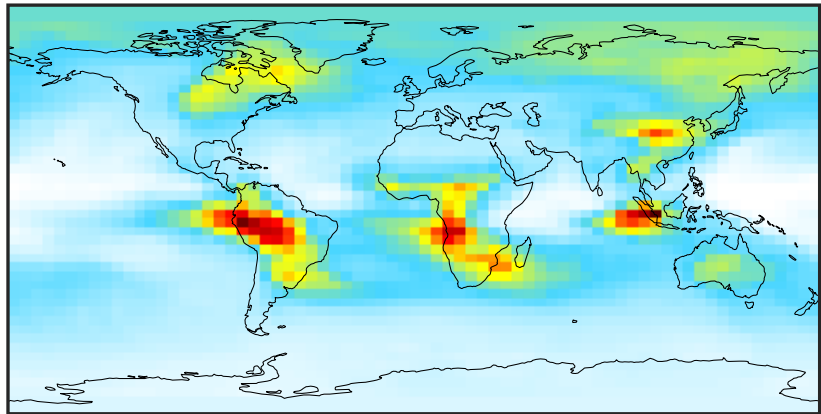
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

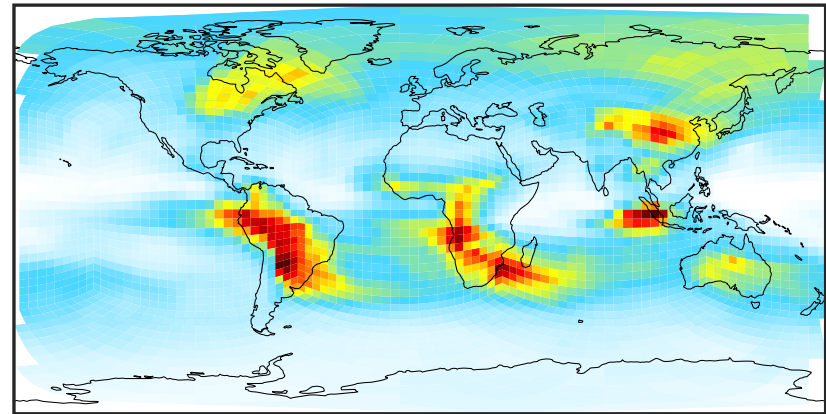
SpeciesConcVV_ETHN (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



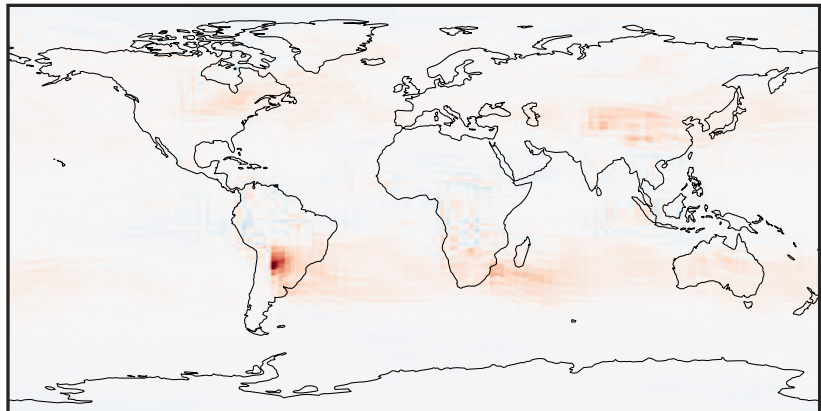
0.00015 0.00030 0.00045
ppb

GCHP_14.2.0 (Dev)
c24



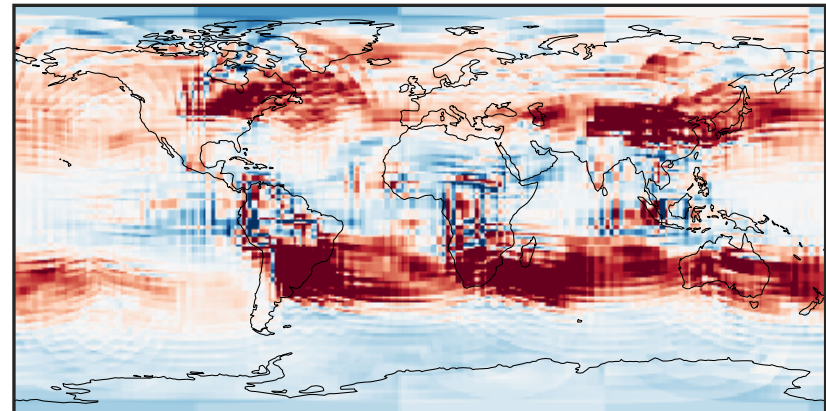
0.00015 0.00030 0.00045
ppb

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



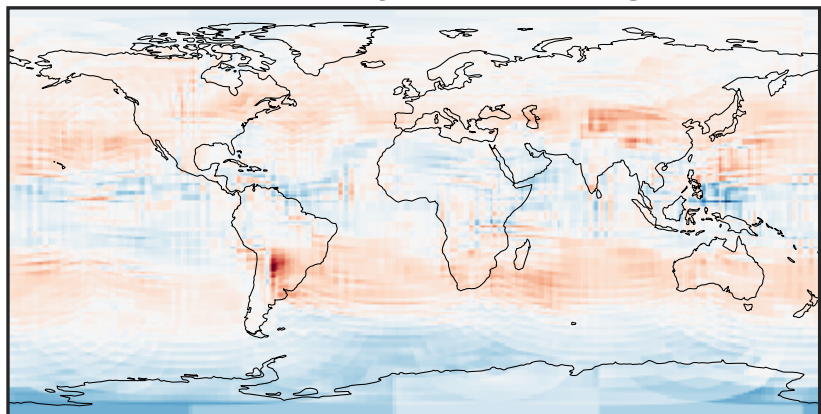
-0.00025 0.00000 0.00025
ppb

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



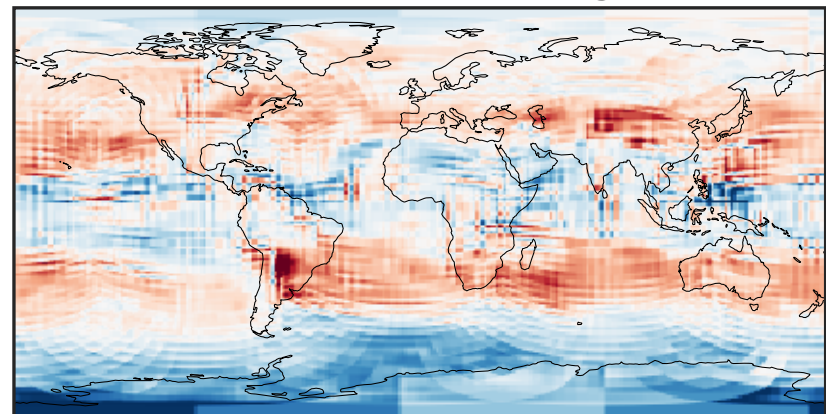
-2 0 2
ppb $1e-5$

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



0.238 0.619 1.000 2.603 4.206
unitless

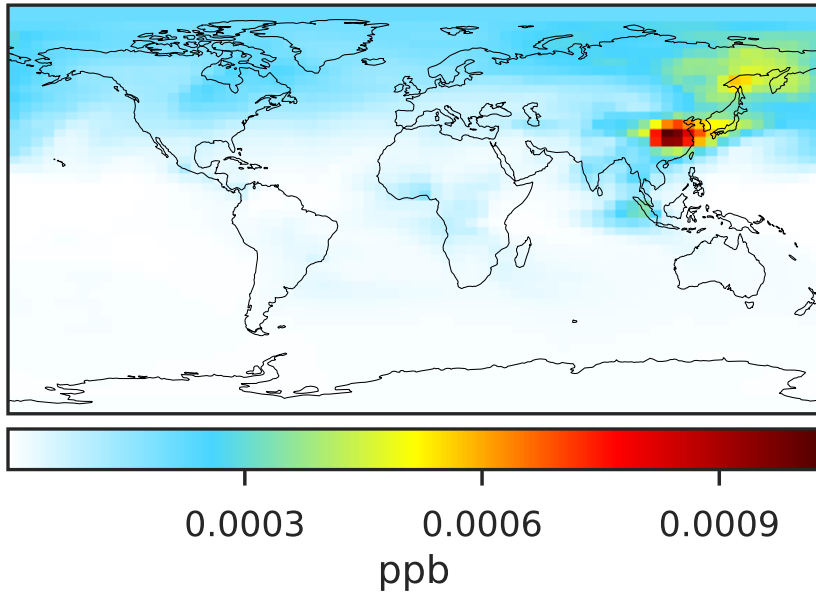
Ratio (1x1.25)
Dev/Ref, Fixed Range



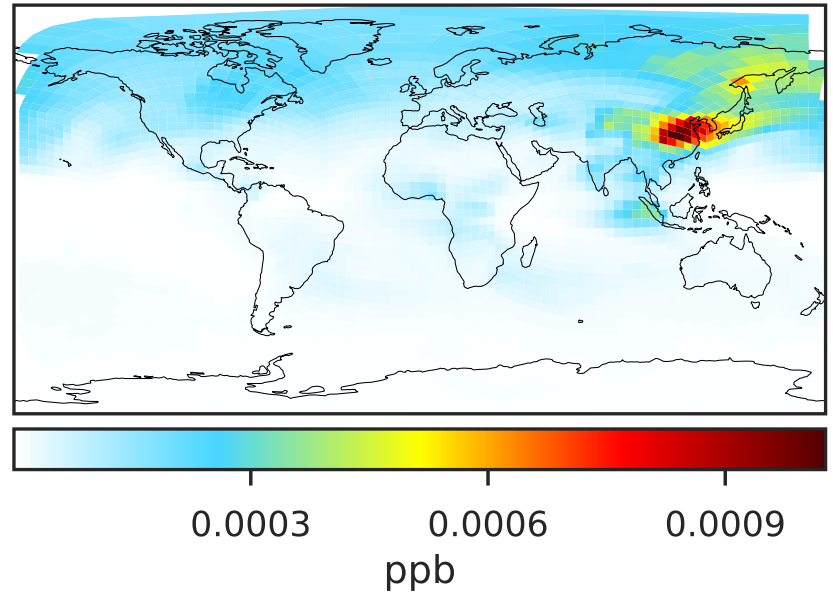
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_BZPAN (Oct2019)

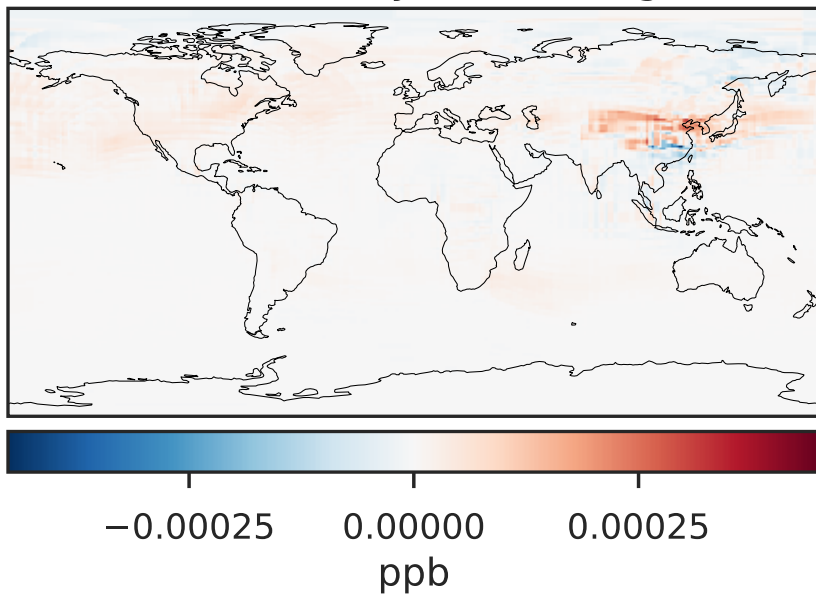
GCC_14.2.0 (Ref)
4.0x5.0



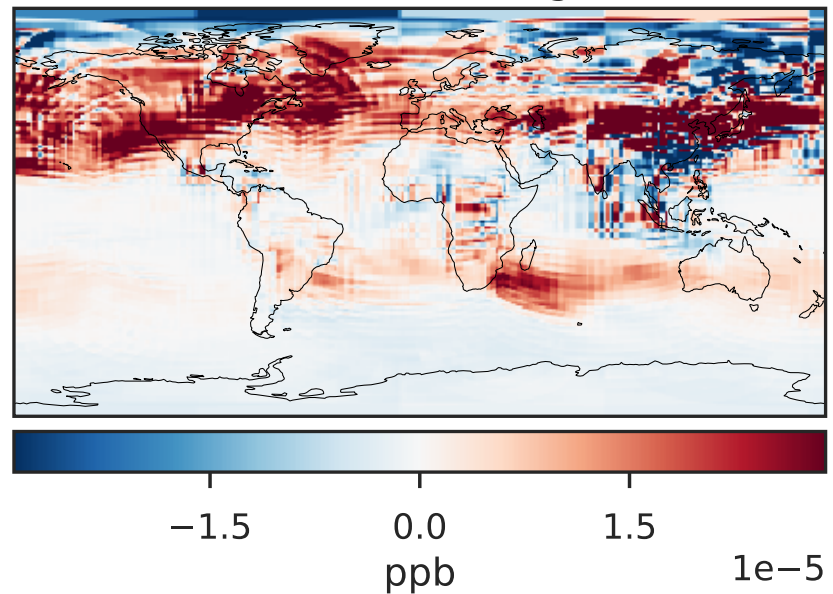
GCHP_14.2.0 (Dev)
c24



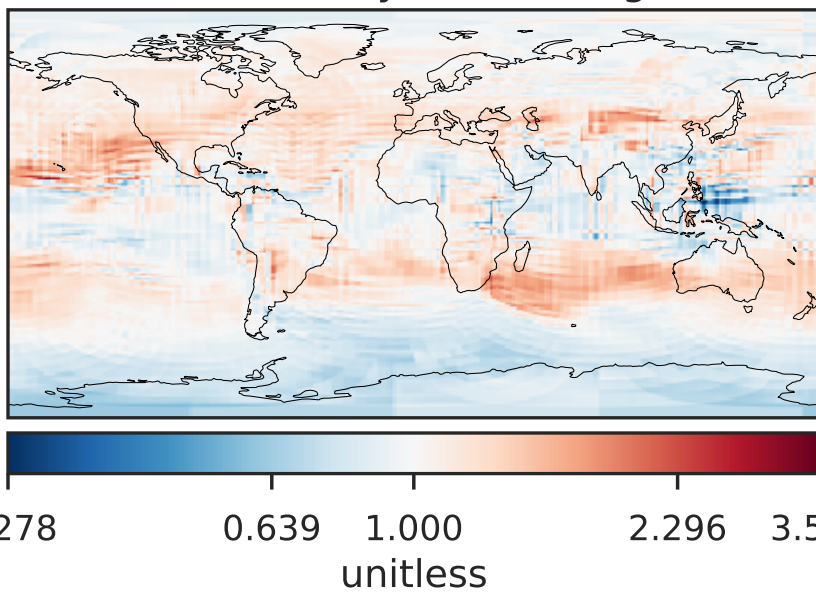
Difference (1x1.25)
Dev - Ref, Dynamic Range



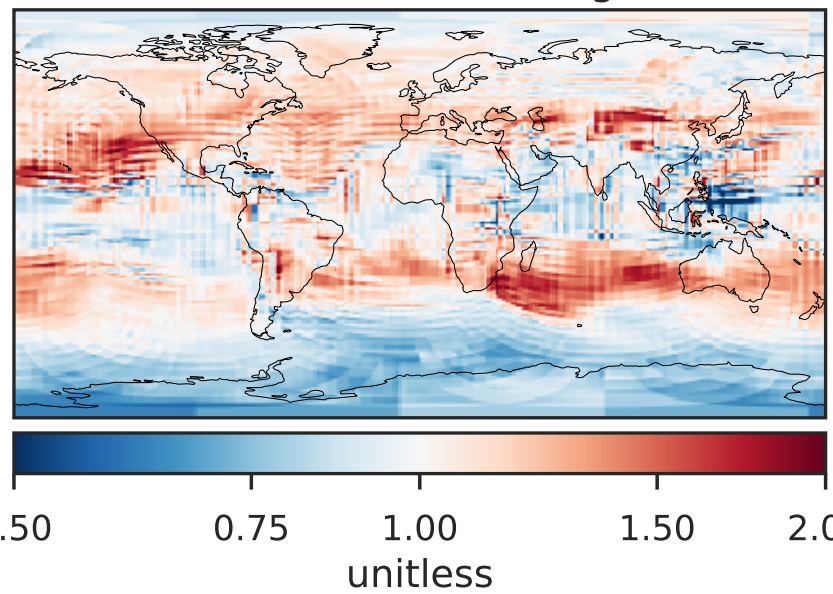
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

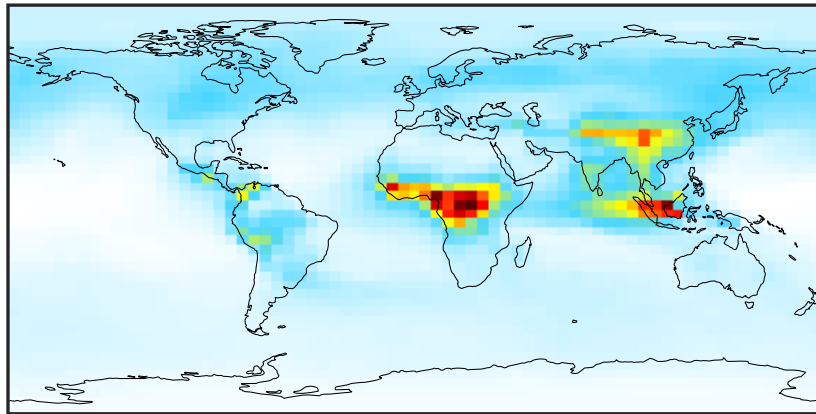


Ratio (1x1.25)
Dev/Ref, Fixed Range



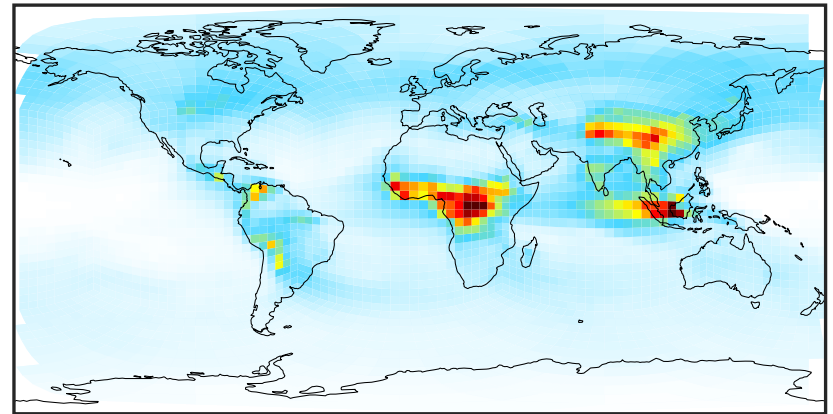
SpeciesConcVV_NPHEN (Oct2019)

GCC_14.2.0 (Ref)
4.0x5.0



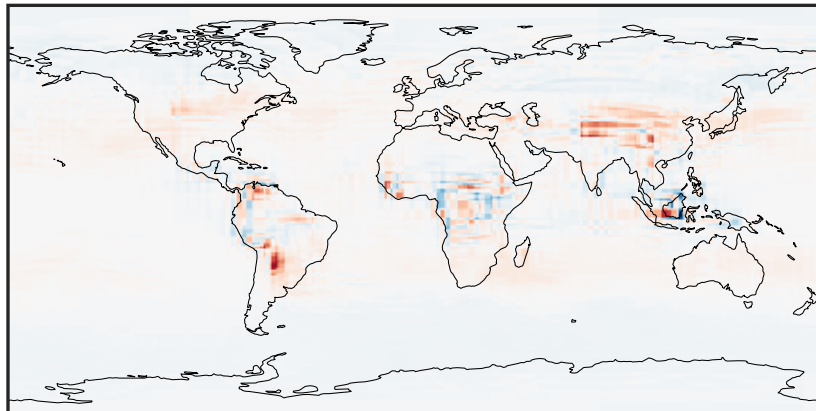
0.00008 0.00016 0.00024
ppb

GCHP_14.2.0 (Dev)
c24



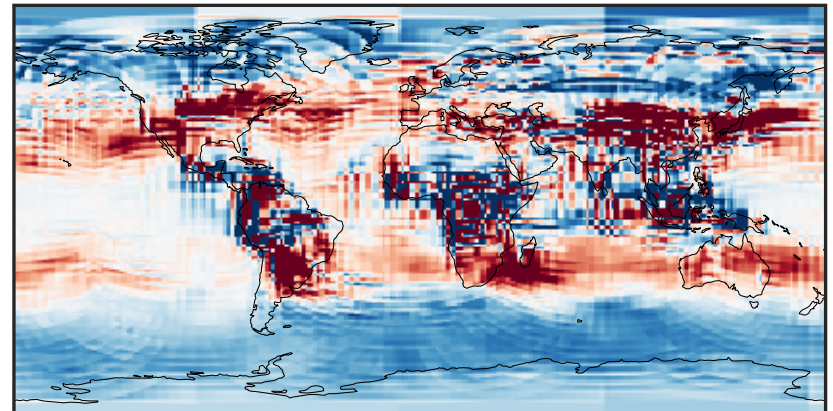
0.00008 0.00016 0.00024
ppb

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



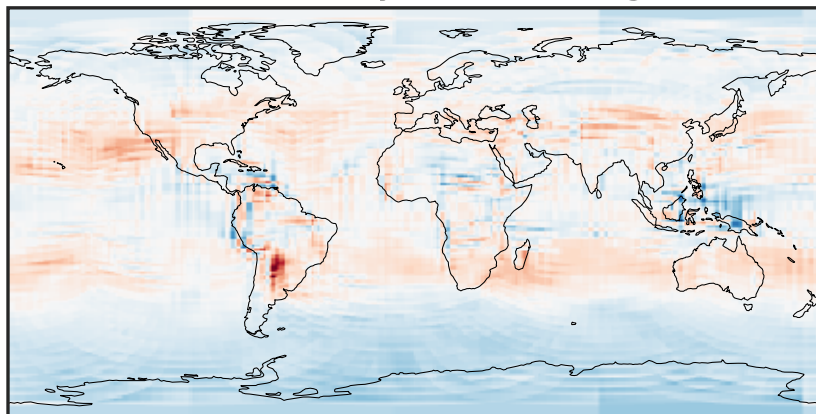
-6 0 6
ppb $1e-5$

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



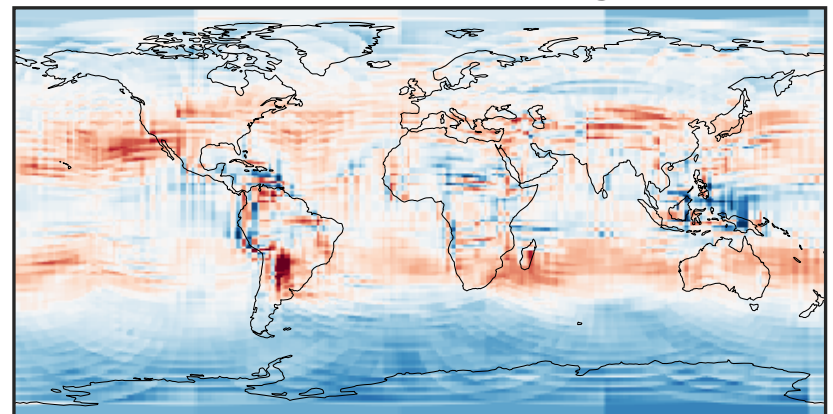
-4 0 4
ppb $1e-6$

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



0.288 0.644 1.000 2.233 3.466
unitless

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



0.50 0.75 1.00 1.50 2.00
unitless