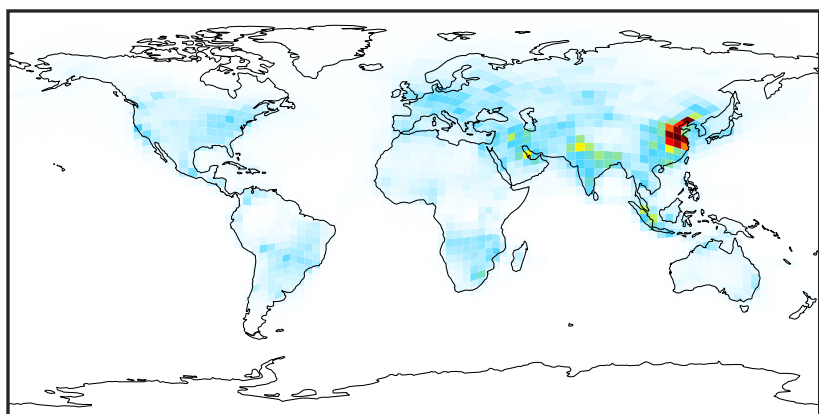


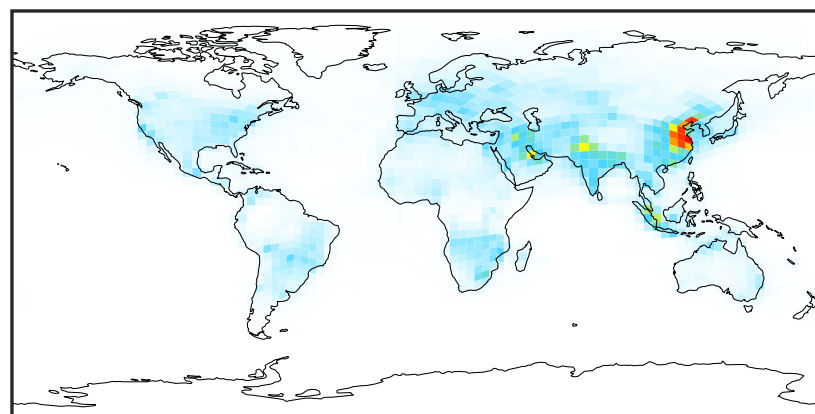
SpeciesConcVV_NOy (Oct2019)

GCHP_14.0.0 (Ref)
c24



0.01 5.66 11.32 16.98 22.65
ppb

GCHP_14.2.0 (Dev)
c24



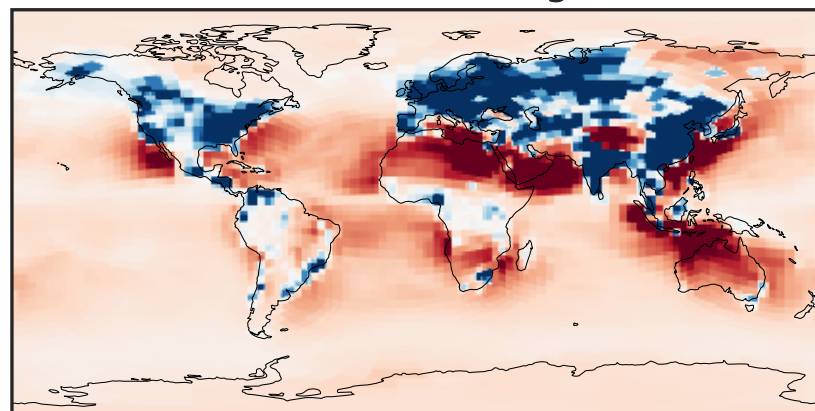
0.01 5.66 11.32 16.98 22.65
ppb

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



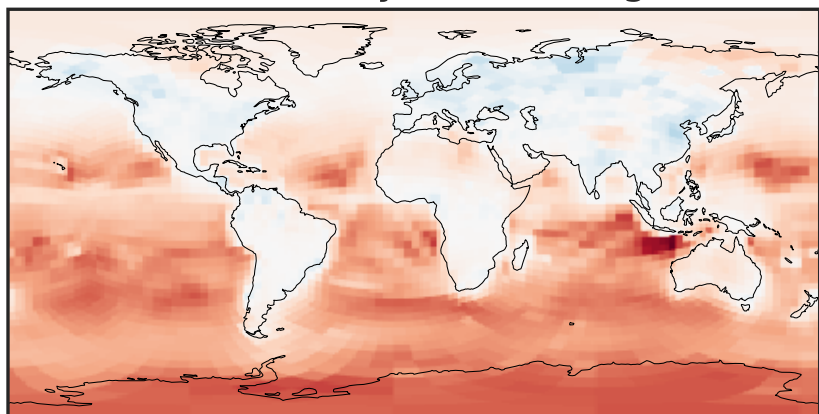
-6.74 -3.37 0.00 3.37 6.74
ppb

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



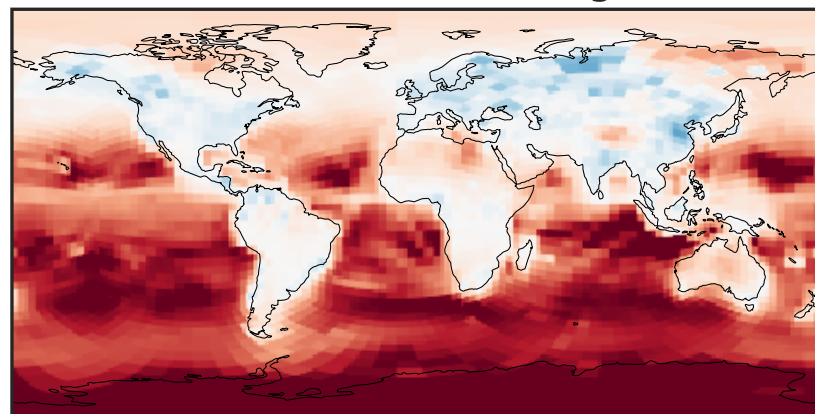
-0.1203 -0.0601 0.0000 0.0601 0.1203
ppb

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



0.272 0.636 1.000 2.342 3.683
unitless

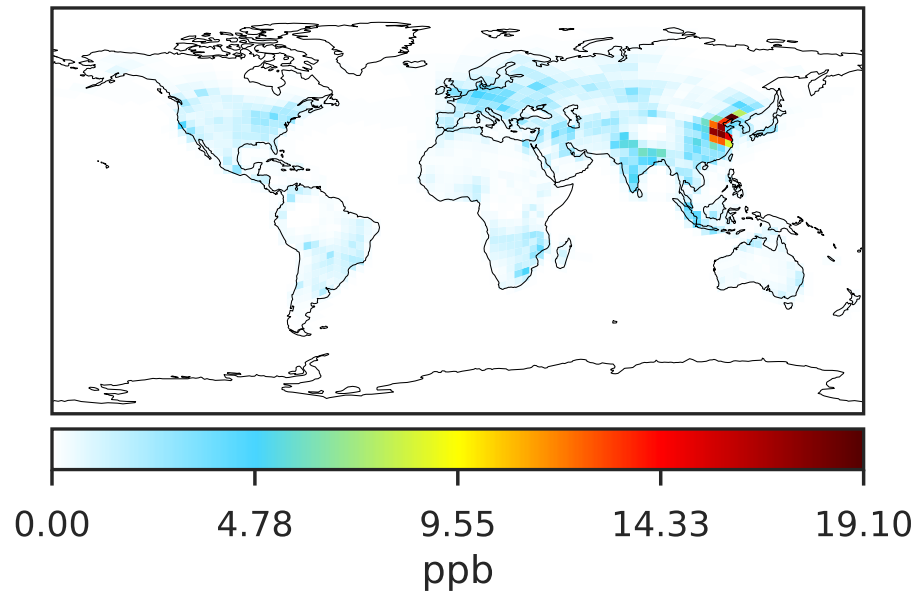
Ratio (1x1.25)
Dev/Ref, Fixed Range



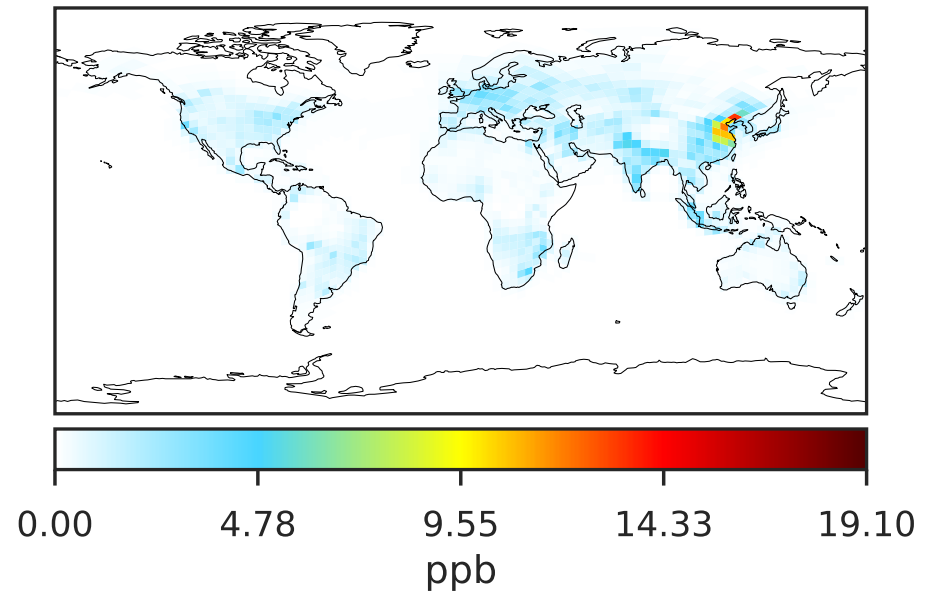
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_NOx (Oct2019)

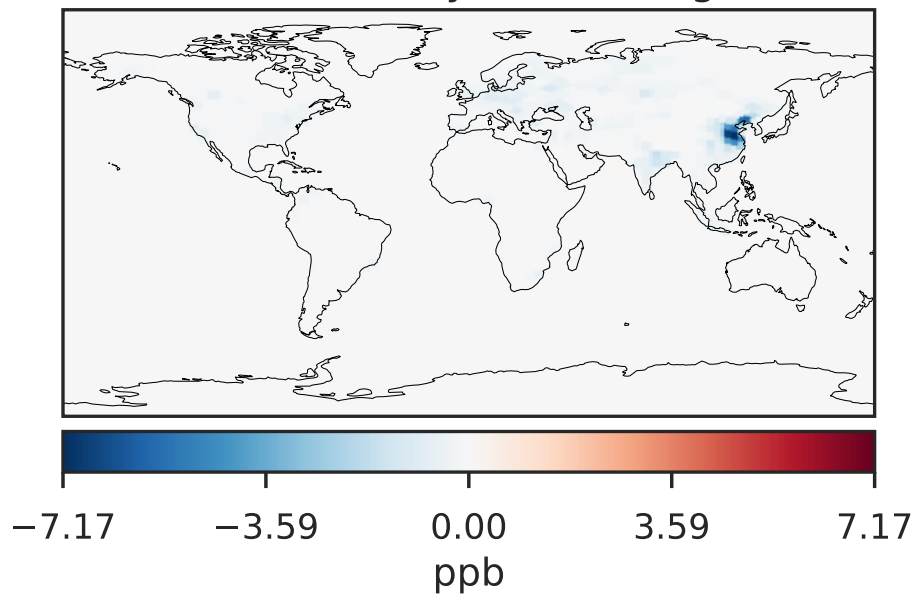
GCHP_14.0.0 (Ref)
c24



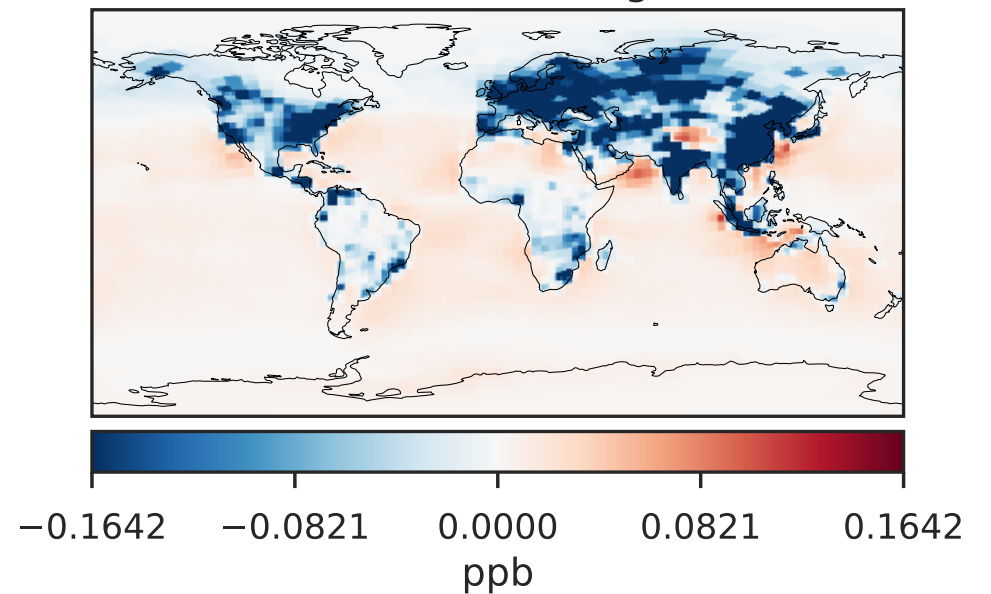
GCHP_14.2.0 (Dev)
c24



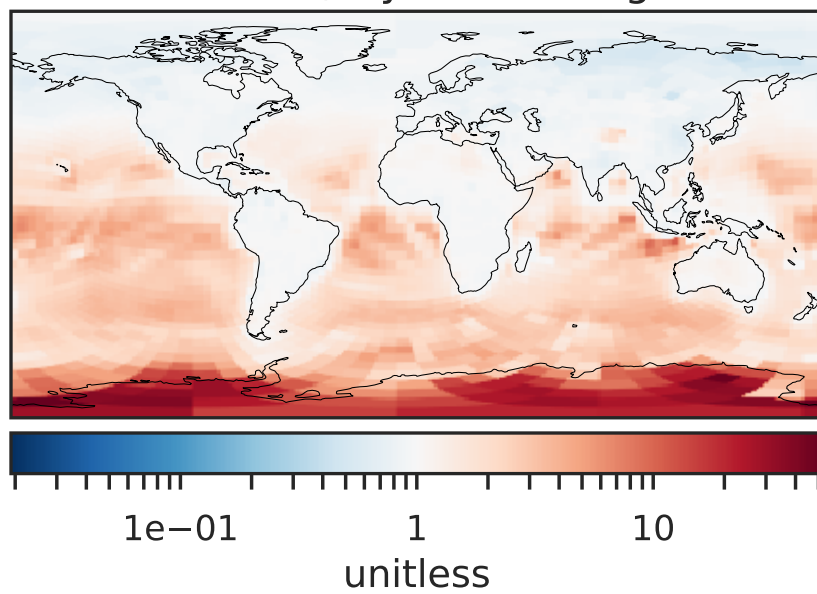
Difference (1x1.25)
Dev - Ref, Dynamic Range



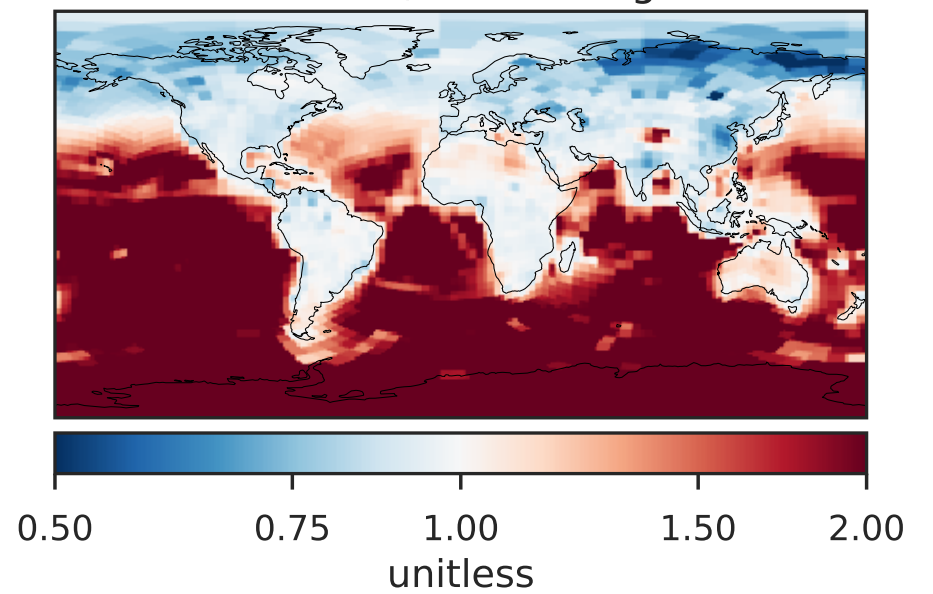
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

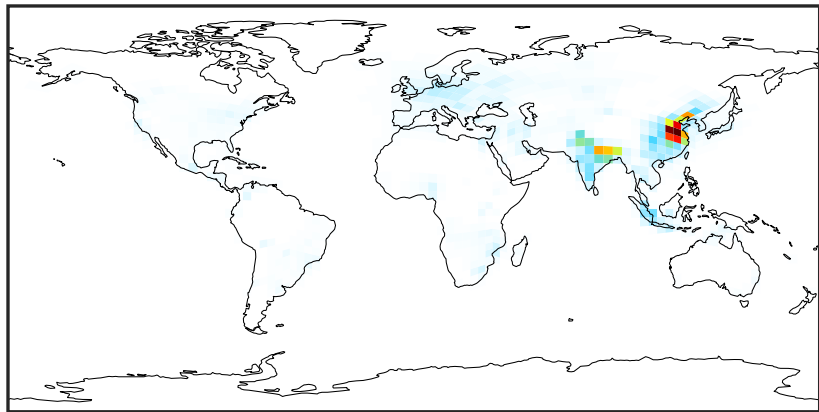


Ratio (1x1.25)
Dev/Ref, Fixed Range



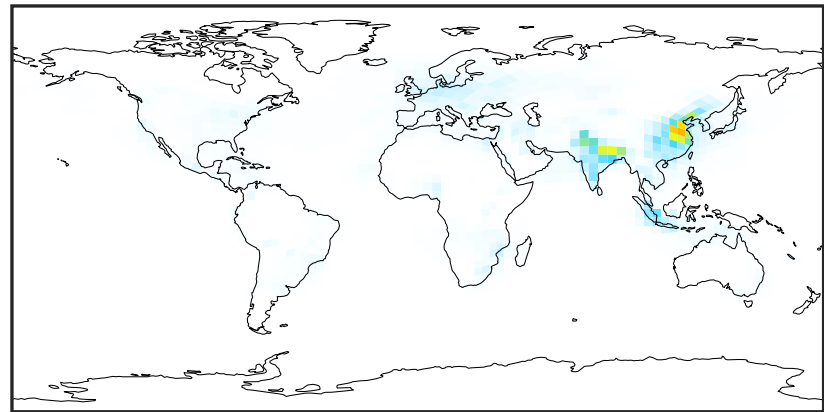
SpeciesConcVV_HNO2 (Oct2019)

GCHP_14.0.0 (Ref)
c24



0.0000 0.0924 0.1848 0.2771 0.3695
ppb

GCHP_14.2.0 (Dev)
c24



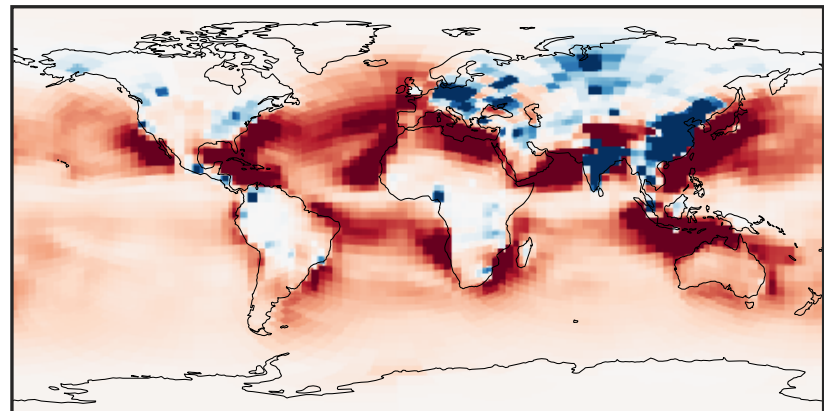
0.0000 0.0924 0.1848 0.2771 0.3695
ppb

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



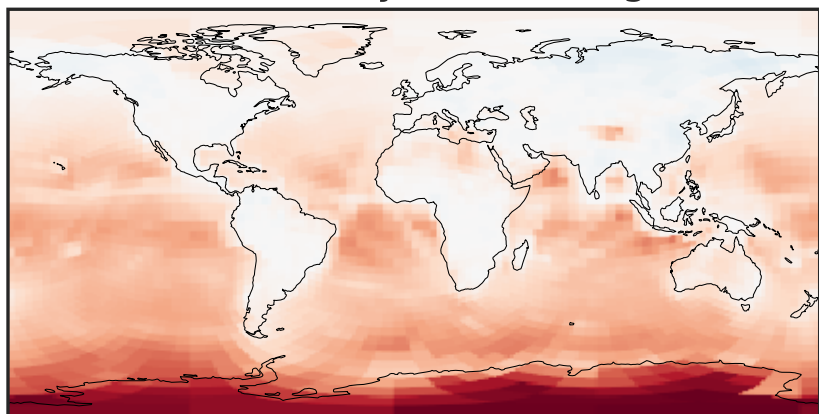
-0.1566 -0.0783 0.0000 0.0783 0.1566
ppb

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



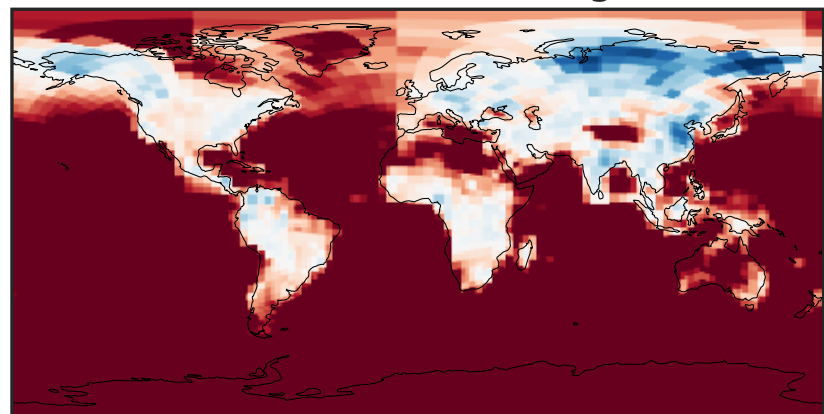
-0.0008 0.0000 0.0008
ppb

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



unitless

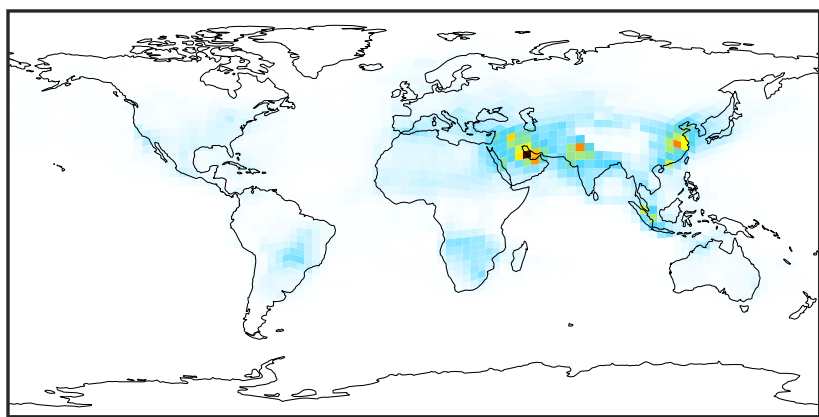
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

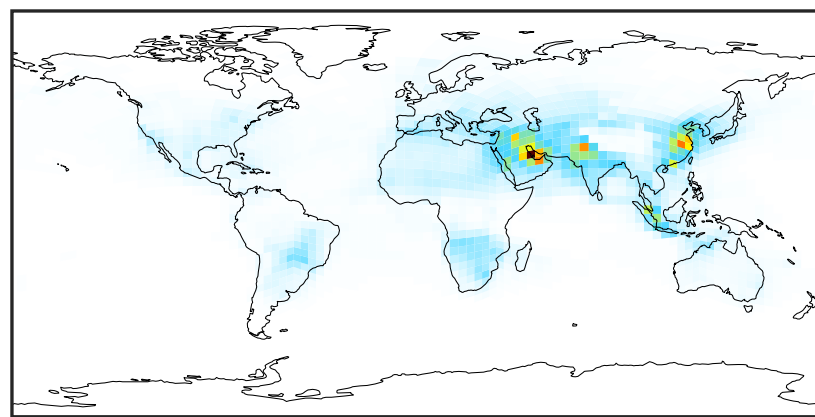
SpeciesConcVV_HNO3 (Oct2019)

GCHP_14.0.0 (Ref)
c24



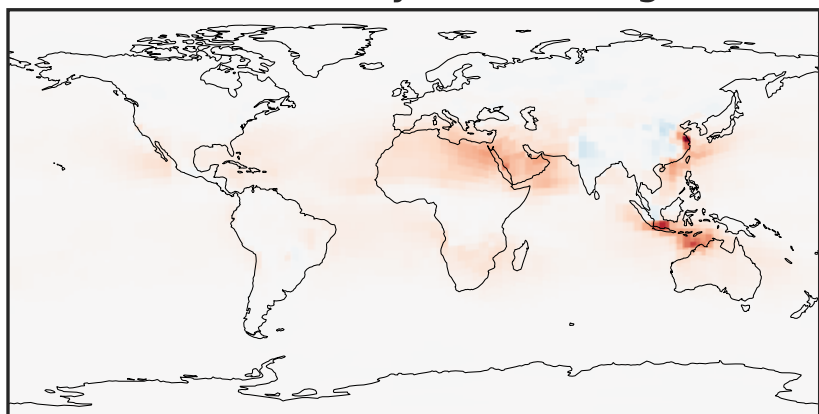
0.000 2.159 4.318 6.477 8.637
ppb

GCHP_14.2.0 (Dev)
c24



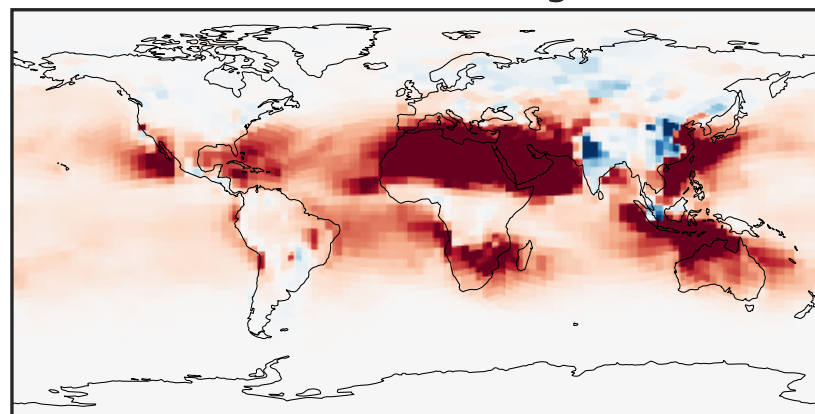
0.000 2.159 4.318 6.477 8.637
ppb

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



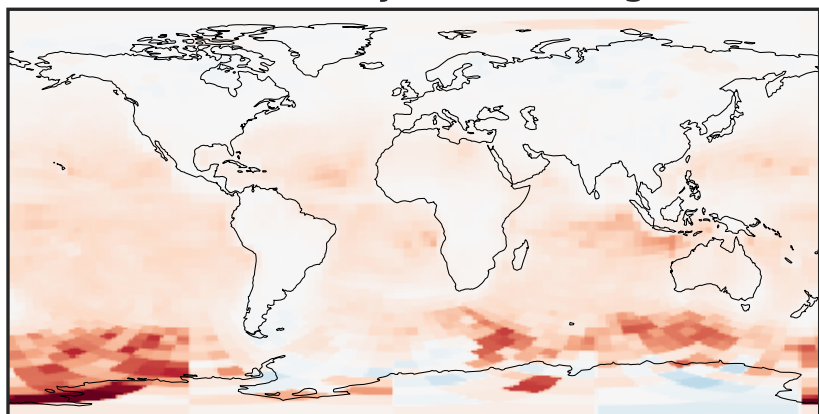
-0.4576 -0.2288 0.0000 0.2288 0.4576
ppb

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



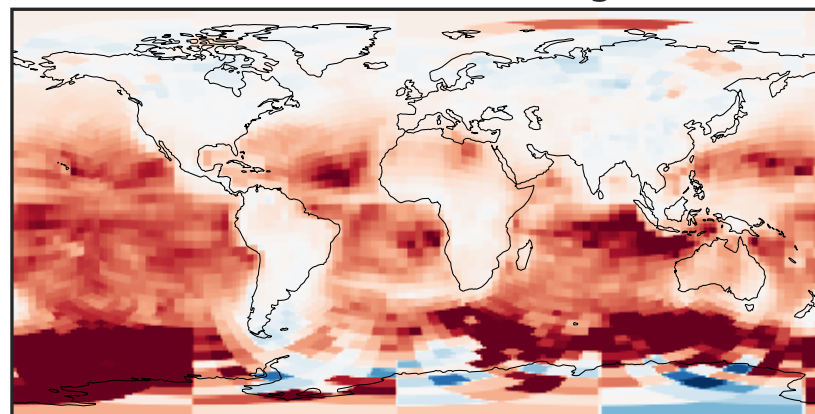
-0.0517 -0.0259 0.0000 0.0259 0.0517
ppb

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



1e-01 1 10
unitless

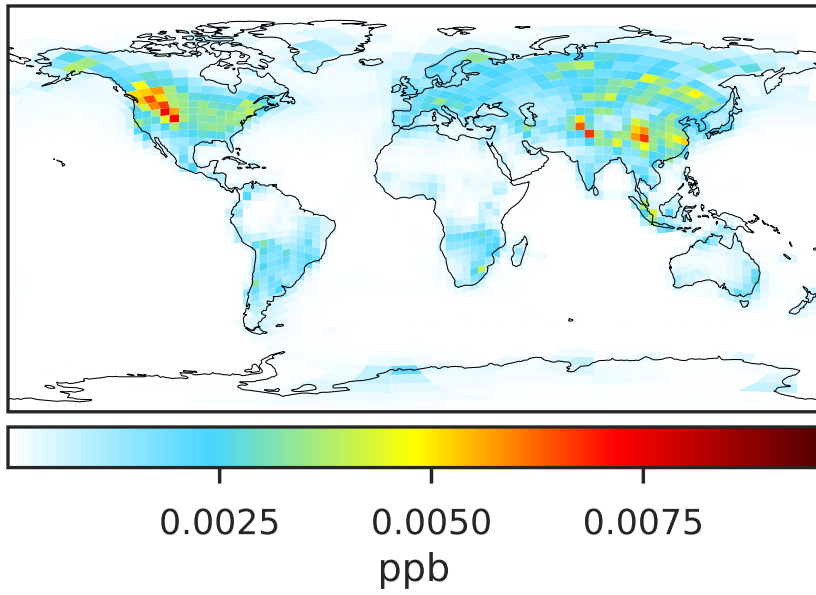
Ratio (1x1.25)
Dev/Ref, Fixed Range



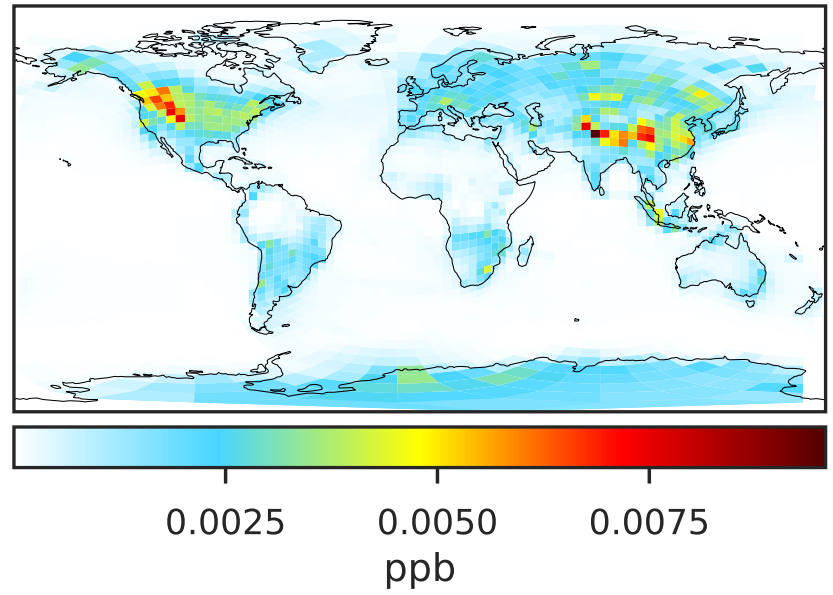
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_HNO4 (Oct2019)

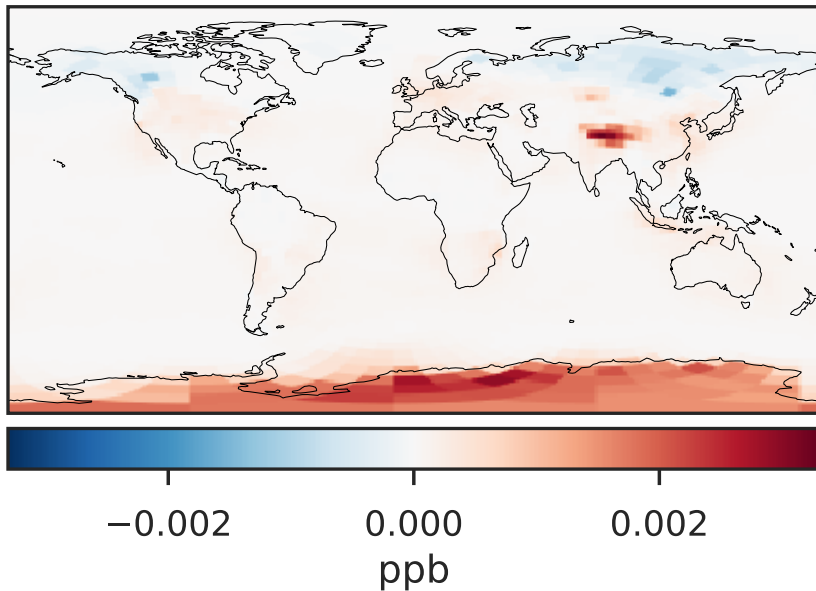
GCHP_14.0.0 (Ref)
c24



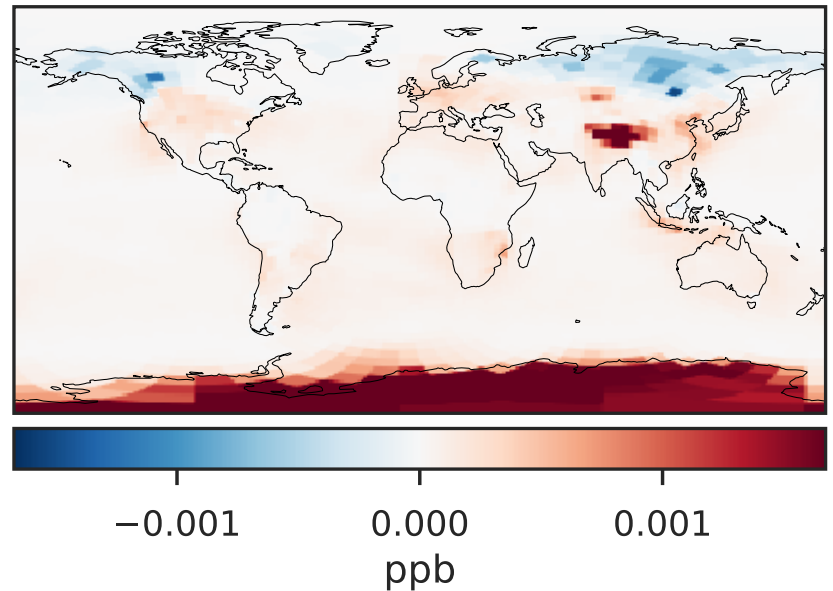
GCHP_14.2.0 (Dev)
c24



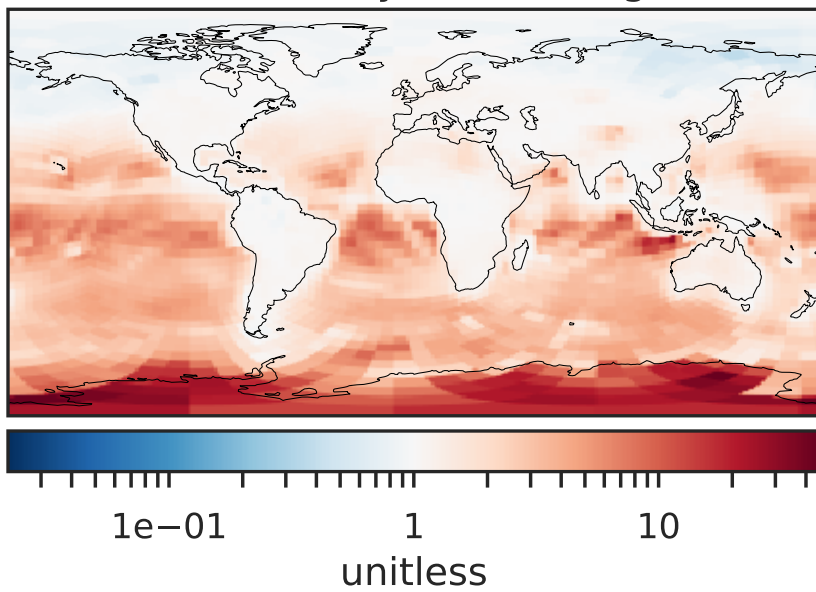
Difference (1x1.25)
Dev - Ref, Dynamic Range



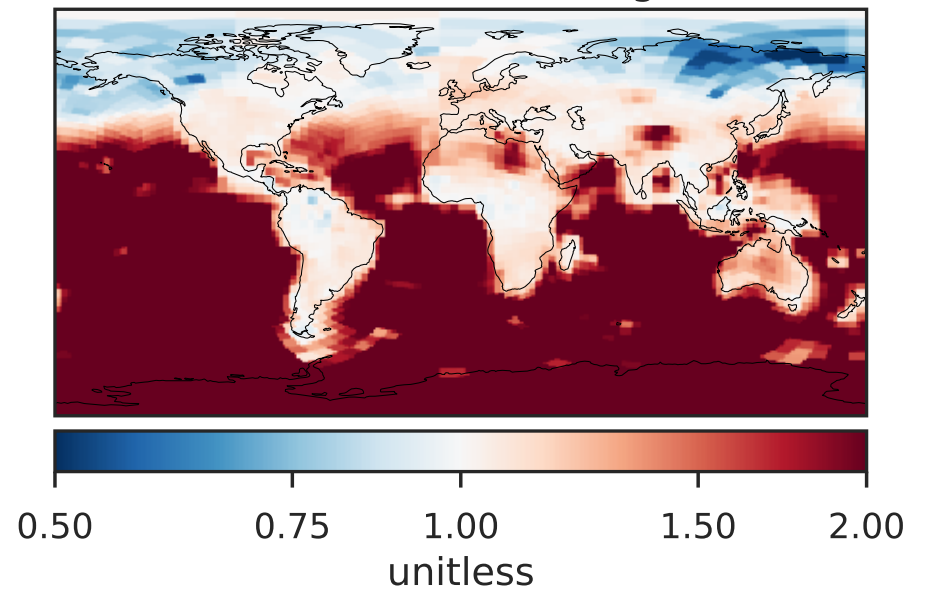
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

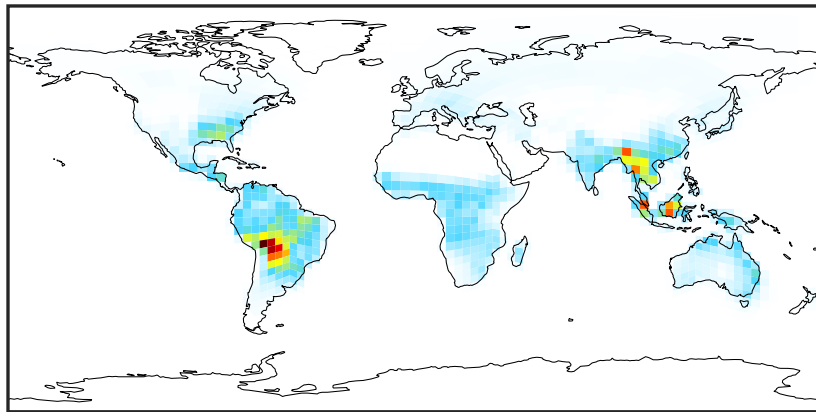


Ratio (1x1.25)
Dev/Ref, Fixed Range



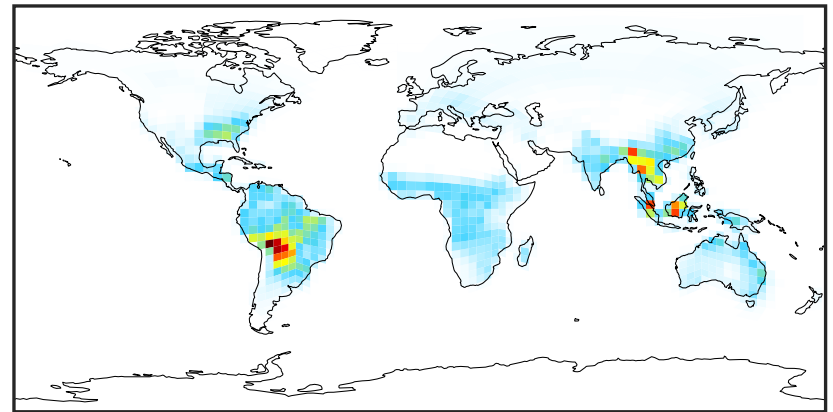
SpeciesConcVV_MPAN (Oct2019)

GCHP_14.0.0 (Ref)
c24



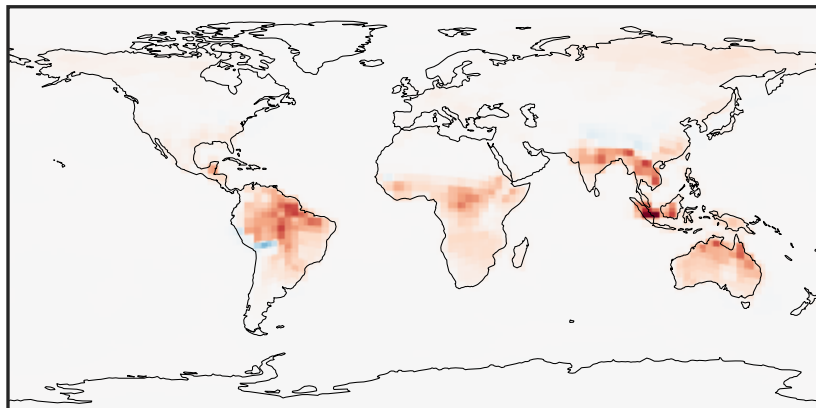
0.000 0.015 0.030 0.045
ppb

GCHP_14.2.0 (Dev)
c24



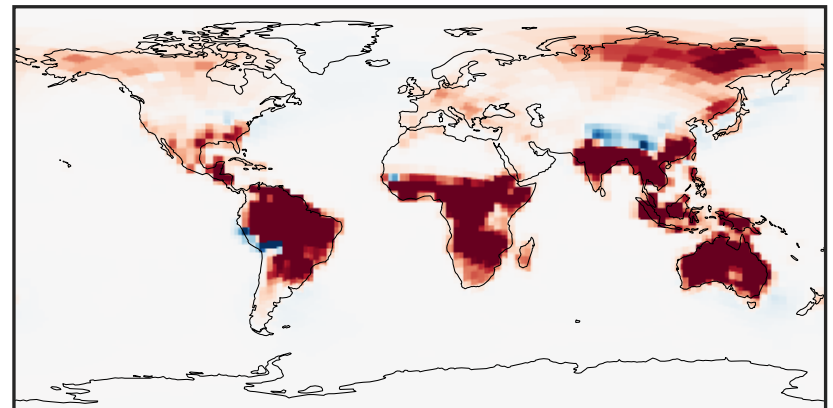
0.000 0.015 0.030 0.045
ppb

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



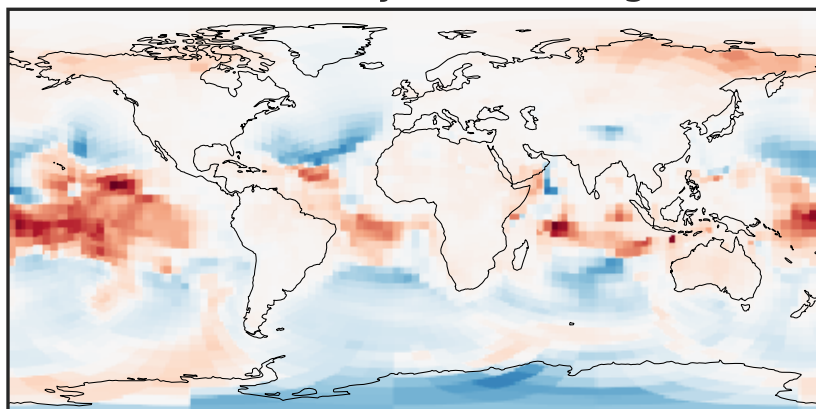
-0.001 0.000 0.001
ppb

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



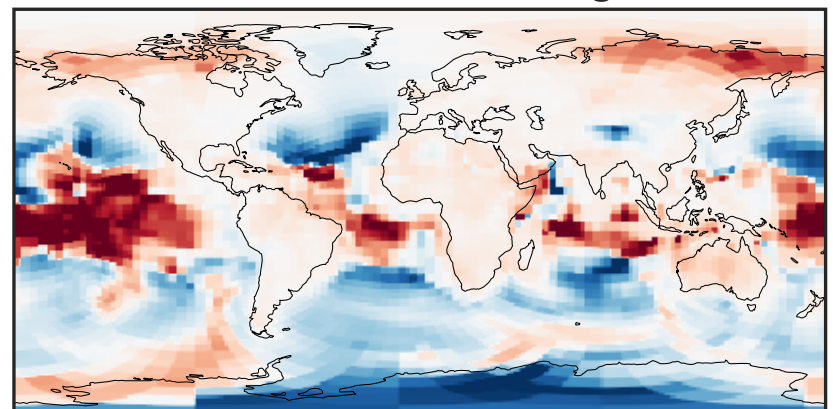
-0.00015 0.00000 0.00015
ppb

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



0.264 0.632 1.000 2.395 3.790
unitless

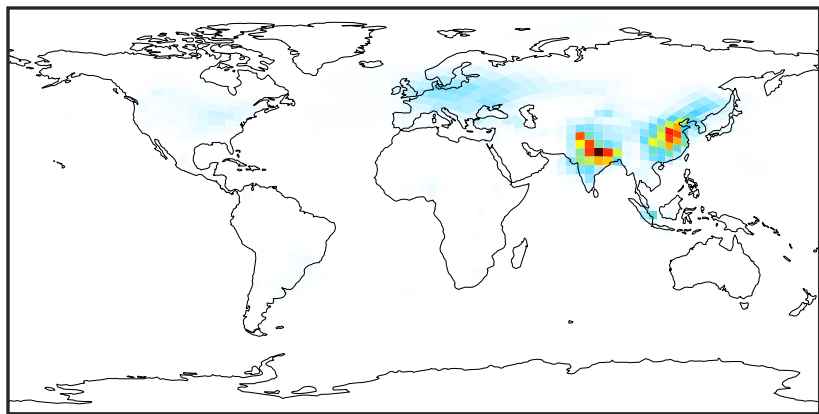
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

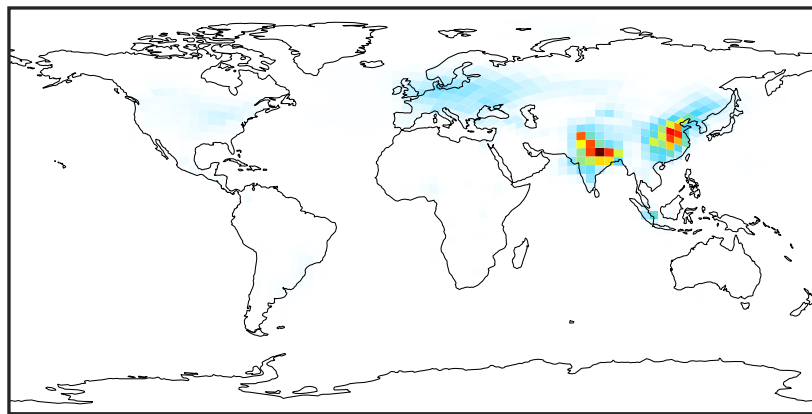
SpeciesConcVV_NIT (Oct2019)

GCHP_14.0.0 (Ref)
c24



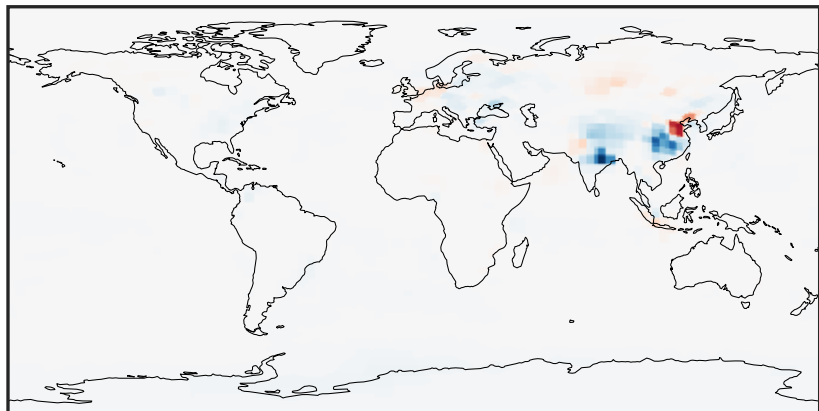
0.00 3.09 6.17 9.26 12.34
ppb

GCHP_14.2.0 (Dev)
c24



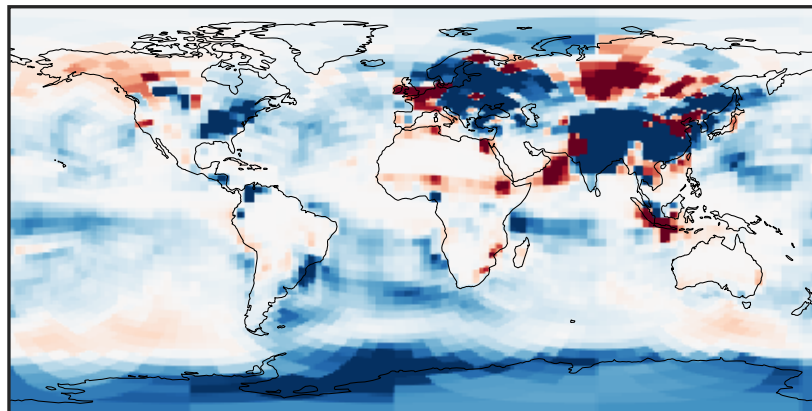
0.00 3.09 6.17 9.26 12.34
ppb

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



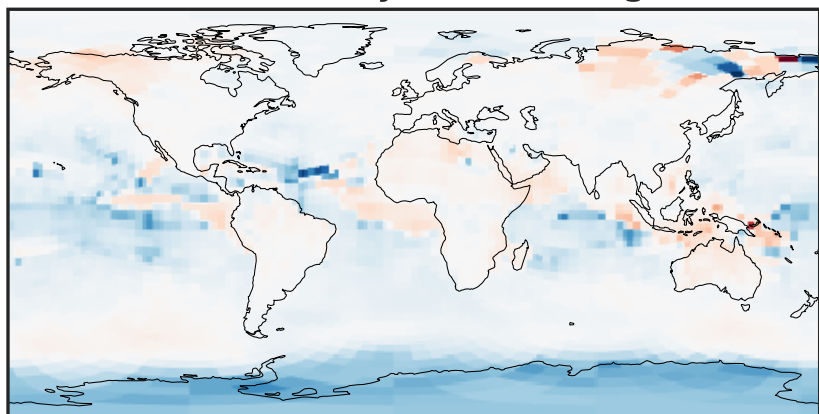
-0.4362 -0.2181 0.0000 0.2181 0.4362
ppb

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



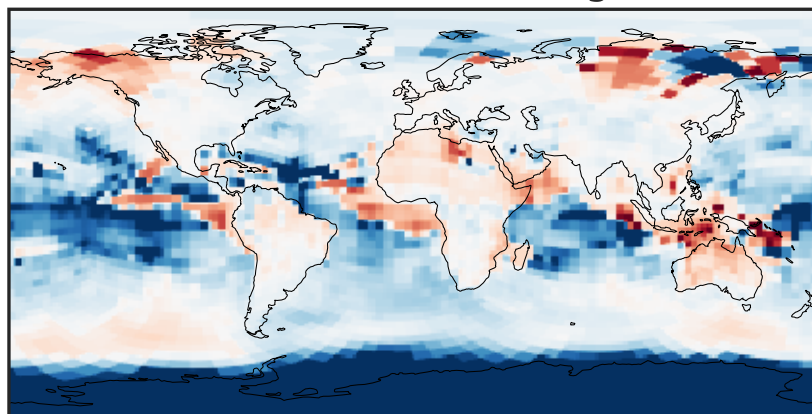
-0.006 0.000 0.006
ppb

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



1e-01 1 10
unitless

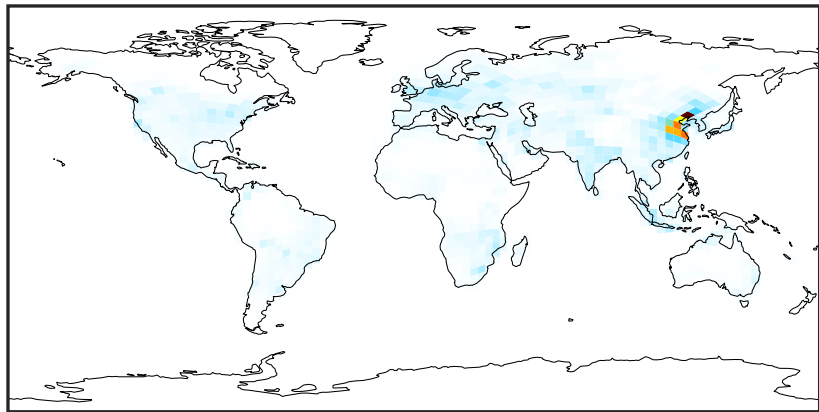
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

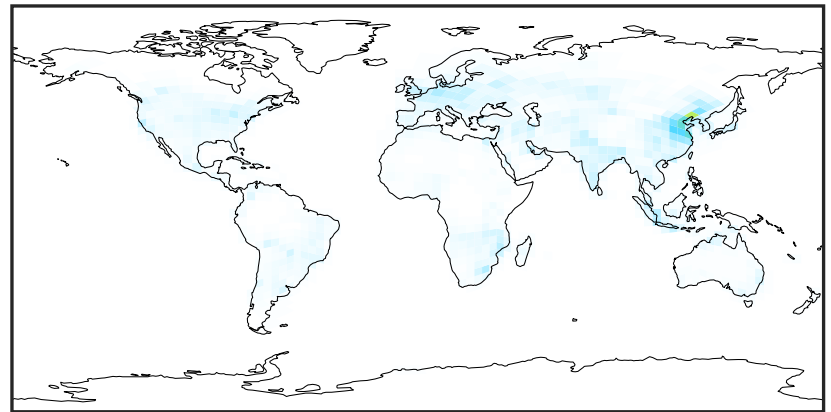
SpeciesConcVV_NO (Oct2019)

GCHP_14.0.0 (Ref)
c24



0.000 0.832 1.663 2.495 3.327
ppb

GCHP_14.2.0 (Dev)
c24



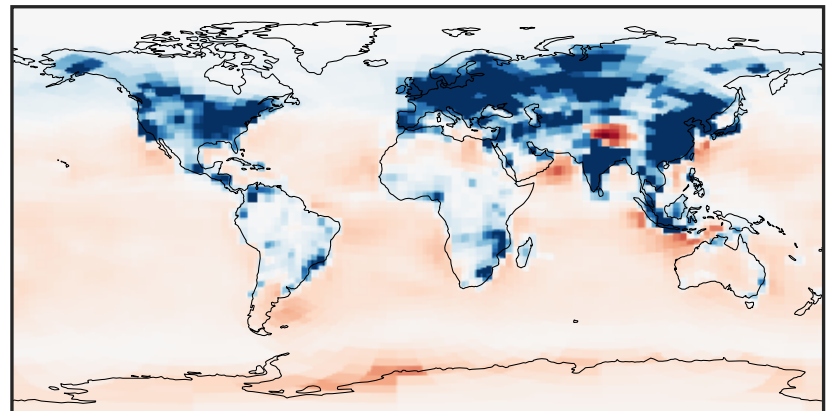
0.000 0.832 1.663 2.495 3.327
ppb

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



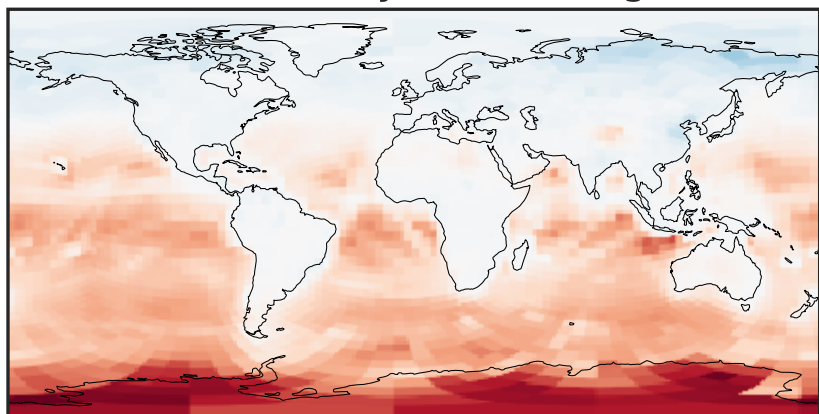
-1.985 -0.993 0.000 0.993 1.985
ppb

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



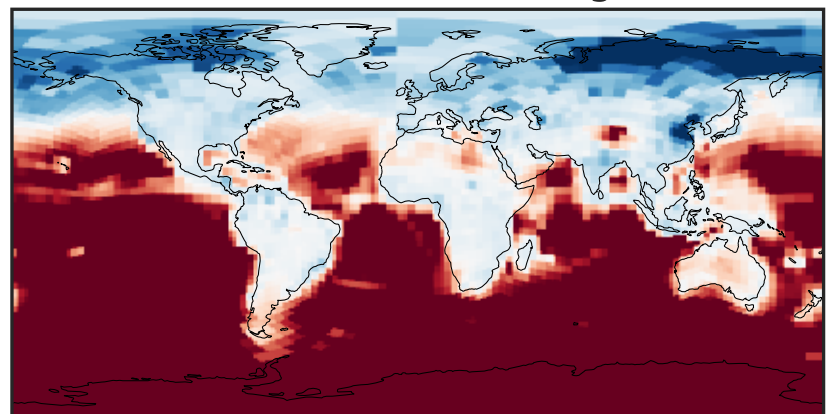
-0.008 0.000 0.008
ppb

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



1e-01 1 10
unitless

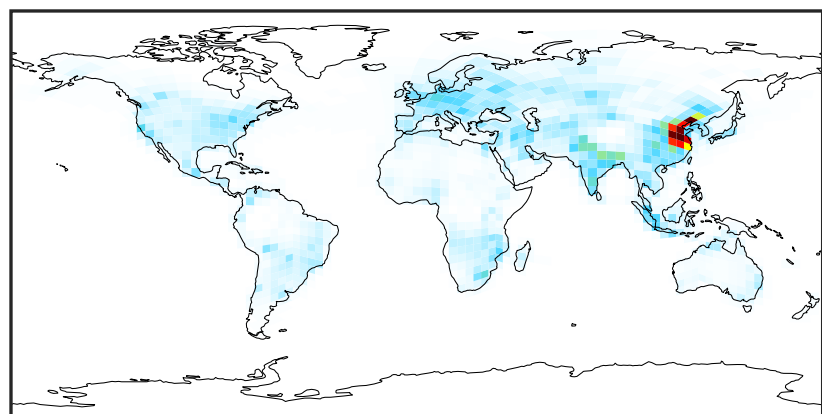
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

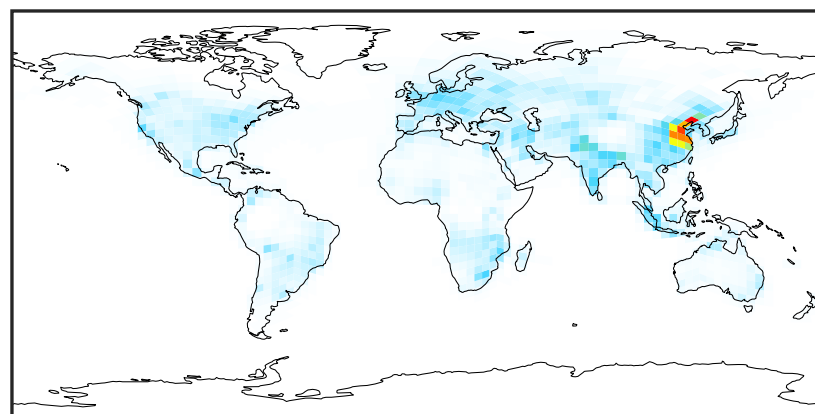
SpeciesConcVW_NO2 (Oct2019)

GCHP_14.0.0 (Ref)
c24



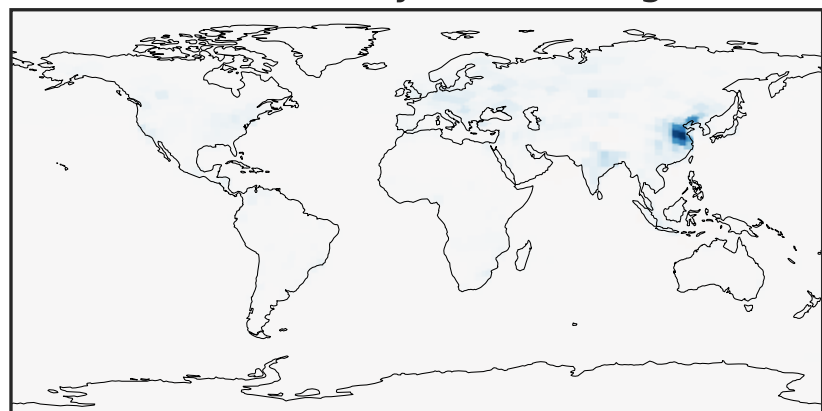
0.00 3.91 7.81 11.72 15.62
ppb

GCHP_14.2.0 (Dev)
c24



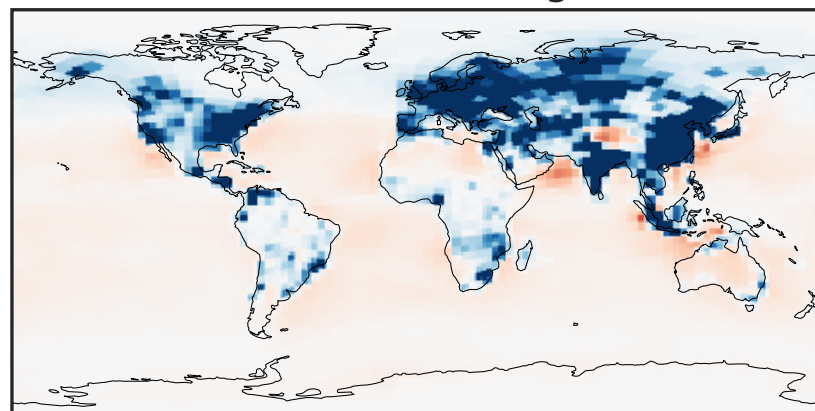
0.00 3.91 7.81 11.72 15.62
ppb

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



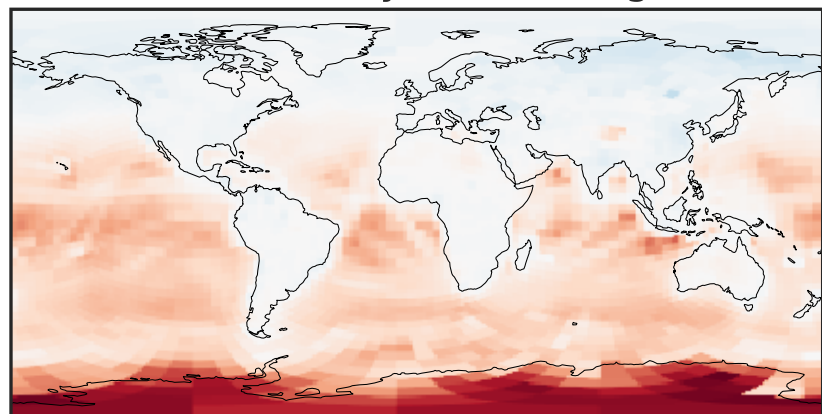
-5.87 -2.93 0.00 2.93 5.87
ppb

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



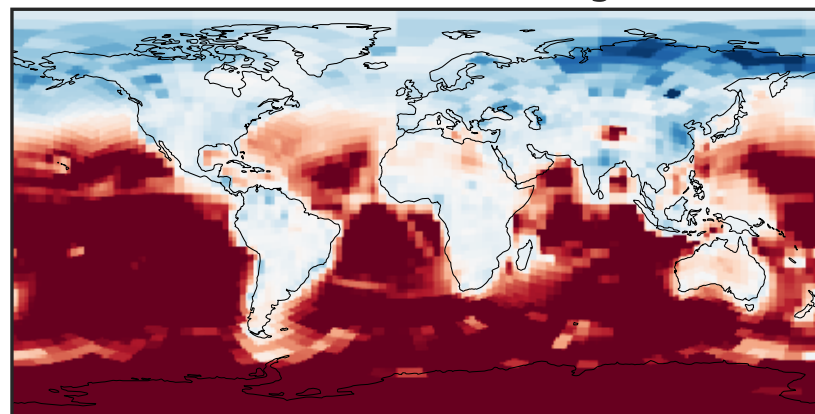
-0.1513 -0.0756 0.0000 0.0756 0.1513
ppb

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



1e-01 1 10
unitless

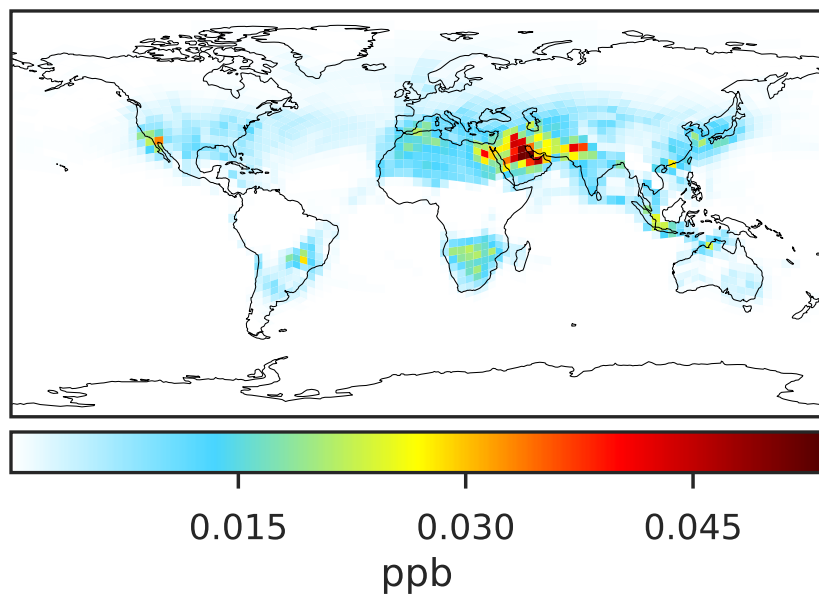
Ratio (1x1.25)
Dev/Ref, Fixed Range



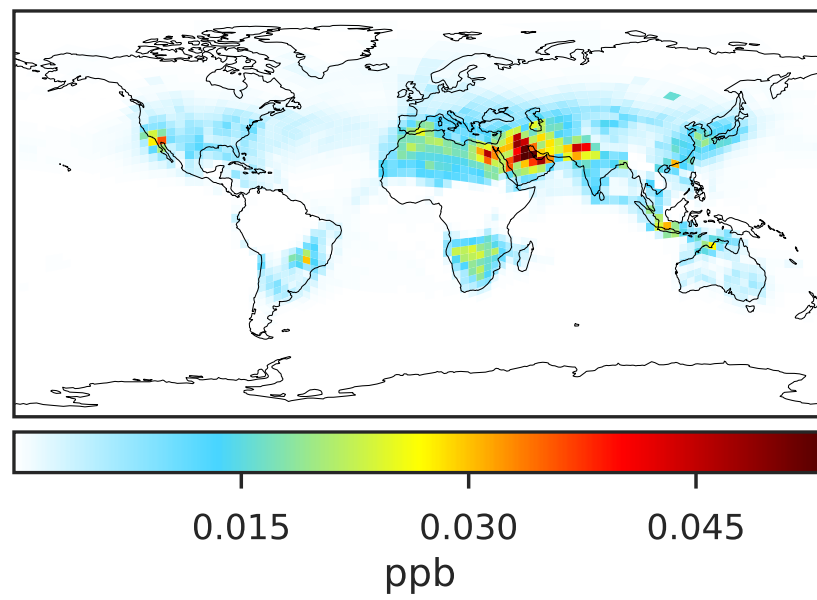
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVW_NO3 (Oct2019)

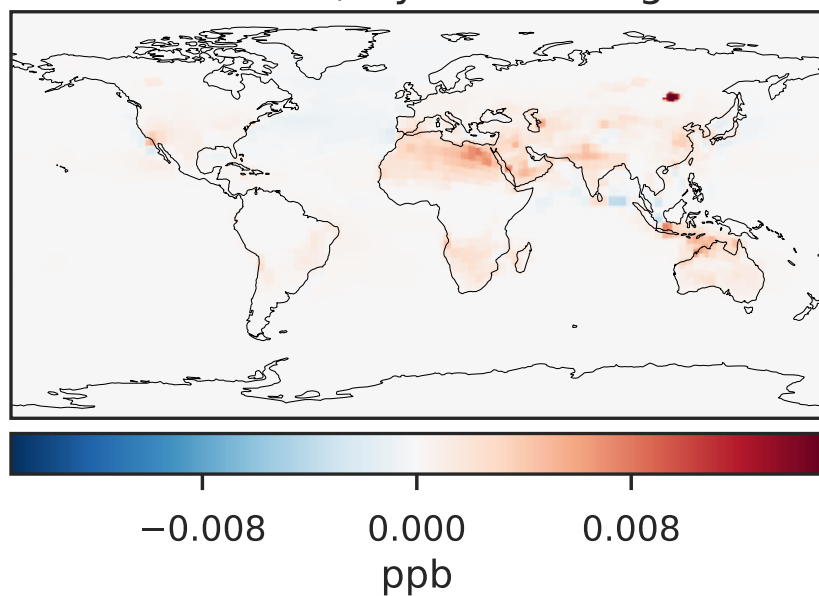
GCHP_14.0.0 (Ref)
c24



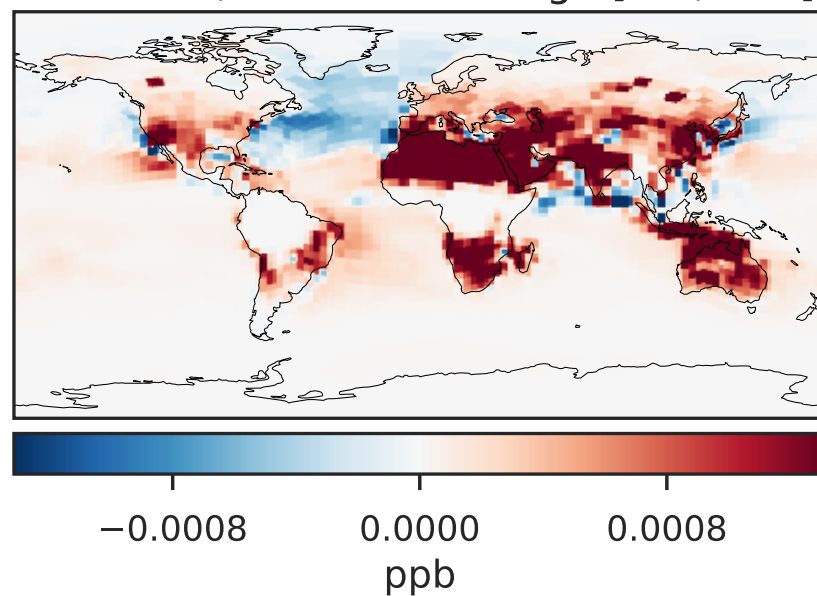
GCHP_14.2.0 (Dev)
c24



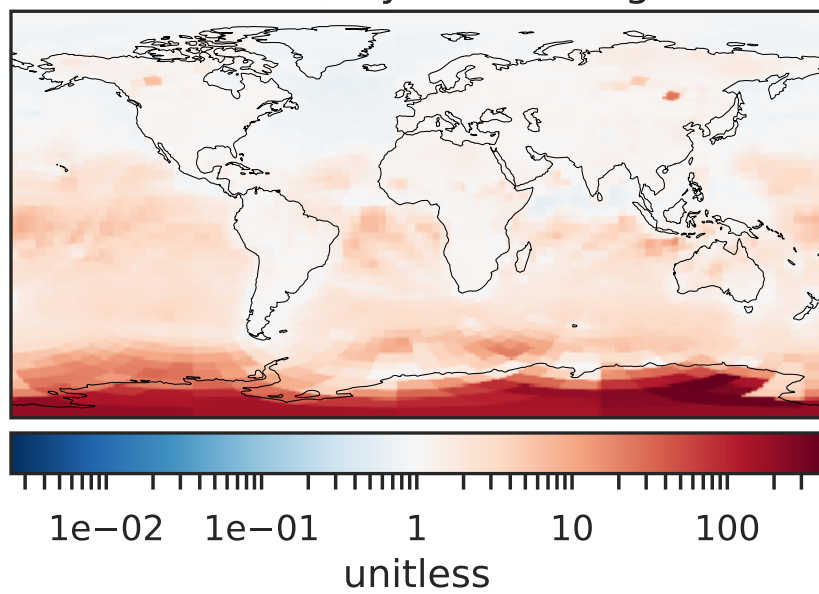
Difference (1x1.25)
Dev - Ref, Dynamic Range



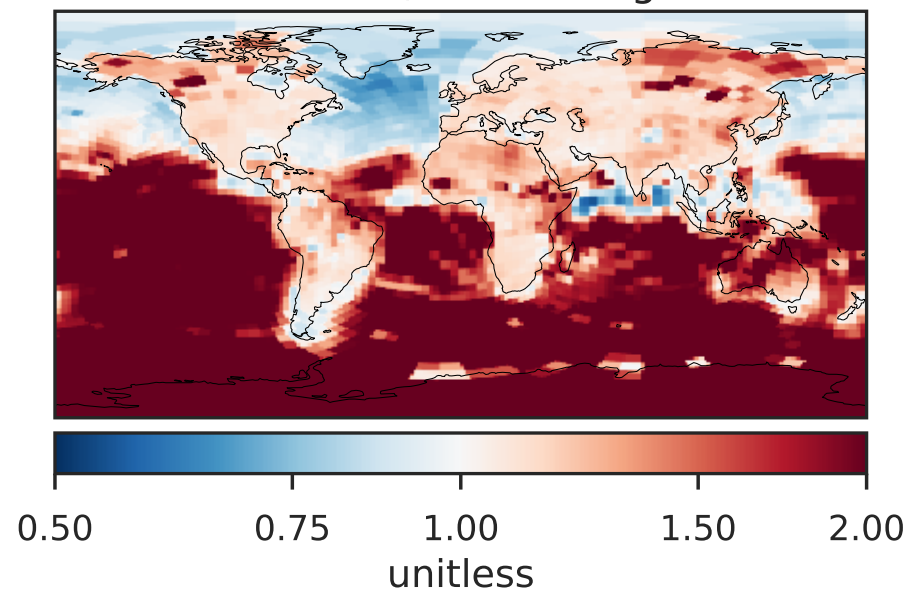
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

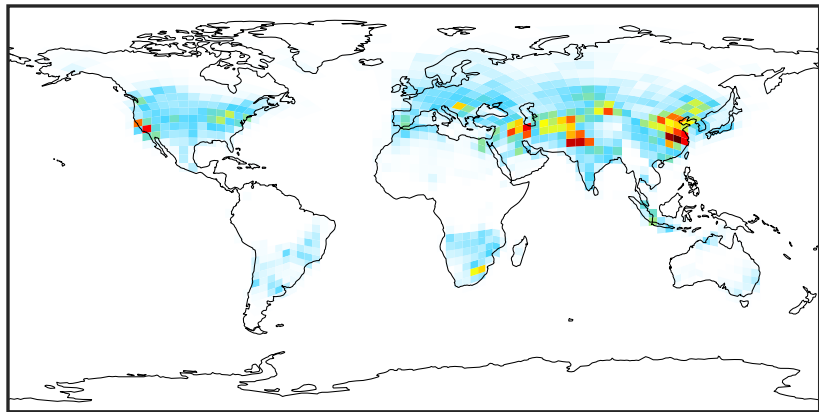


Ratio (1x1.25)
Dev/Ref, Fixed Range



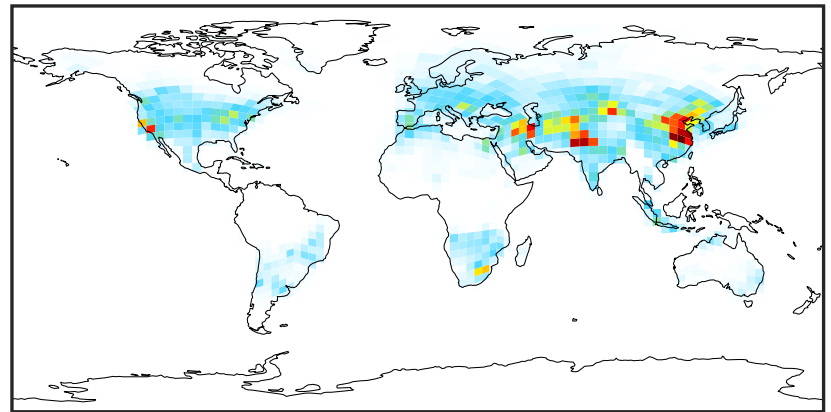
SpeciesConcVV_N2O5 (Oct2019)

GCHP_14.0.0 (Ref)
c24



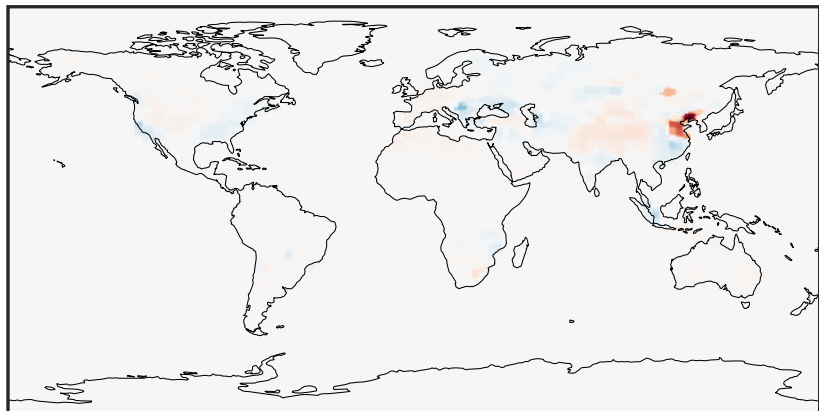
0.0000 0.0607 0.1213 0.1820 0.2427
ppb

GCHP_14.2.0 (Dev)
c24



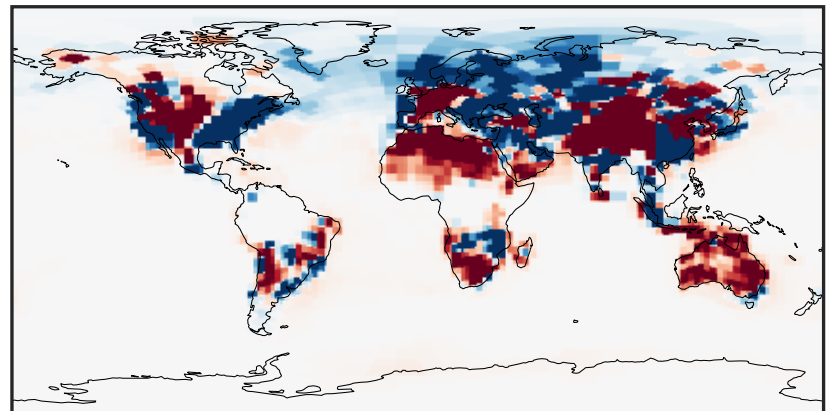
0.0000 0.0607 0.1213 0.1820 0.2427
ppb

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



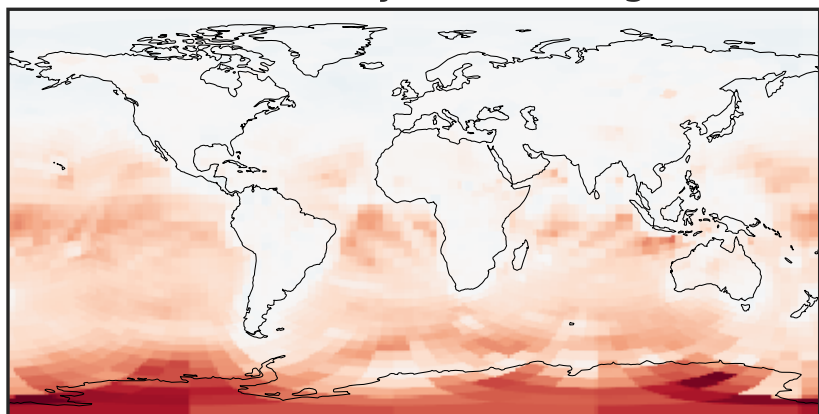
-0.0672 -0.0336 0.0000 0.0336 0.0672
ppb

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



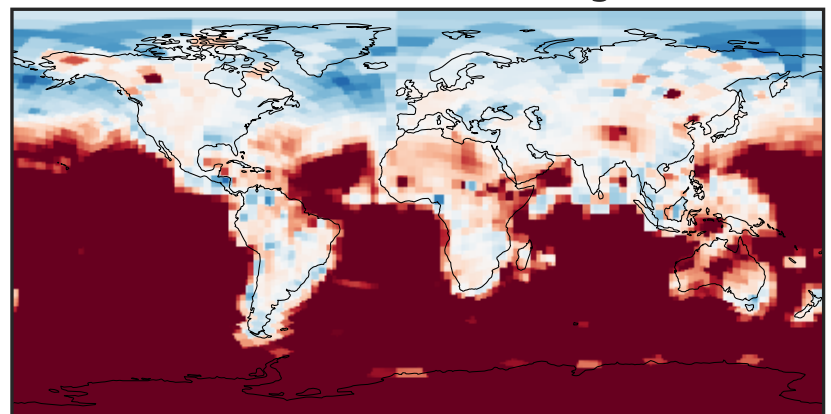
-0.0004 0.0000 0.0004
ppb

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



unitless

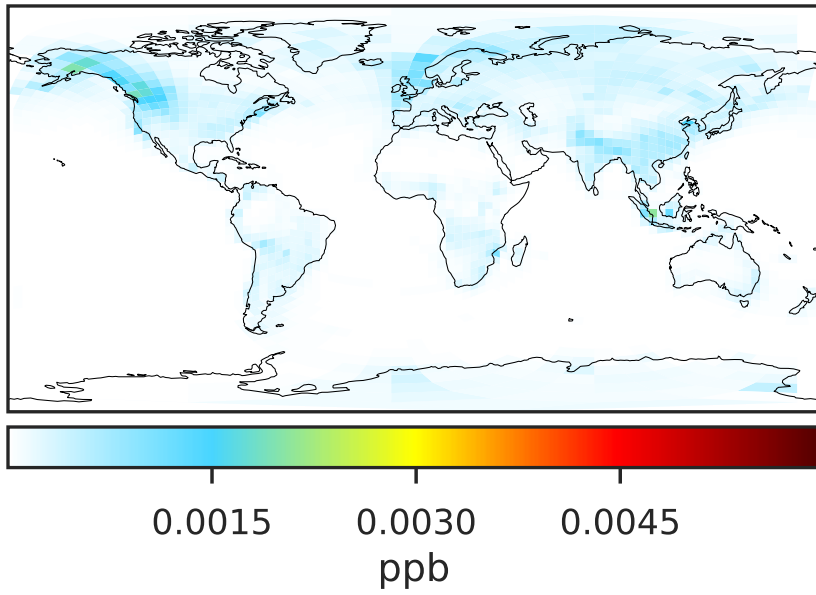
Ratio (1x1.25)
Dev/Ref, Fixed Range



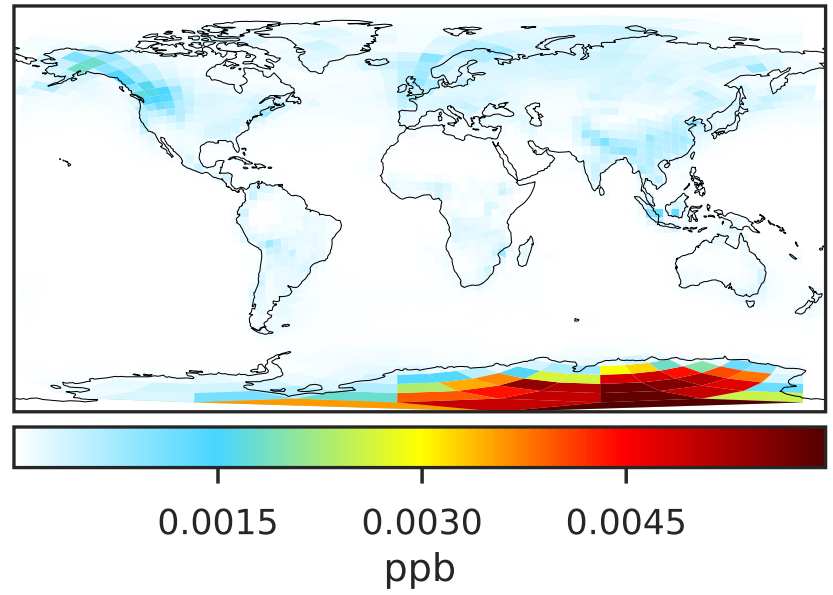
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_MPN (Oct2019)

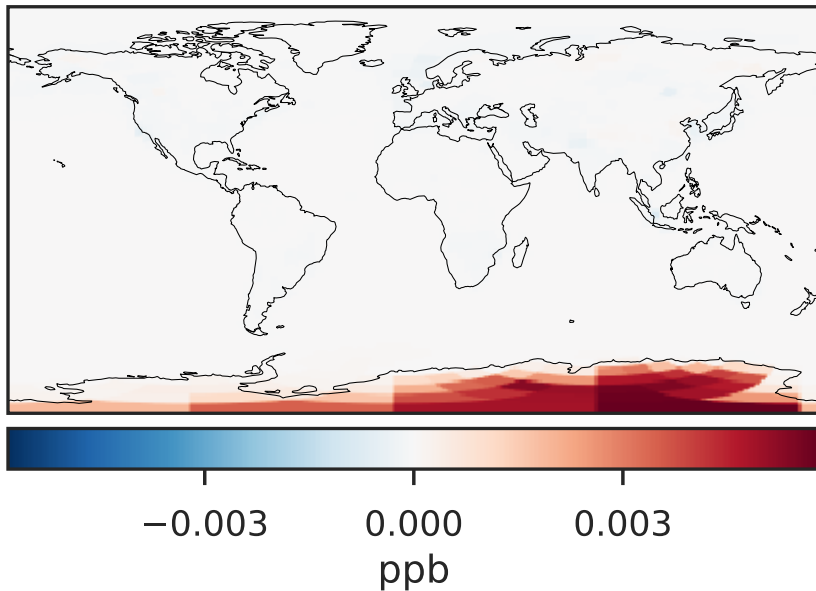
GCHP_14.0.0 (Ref)
c24



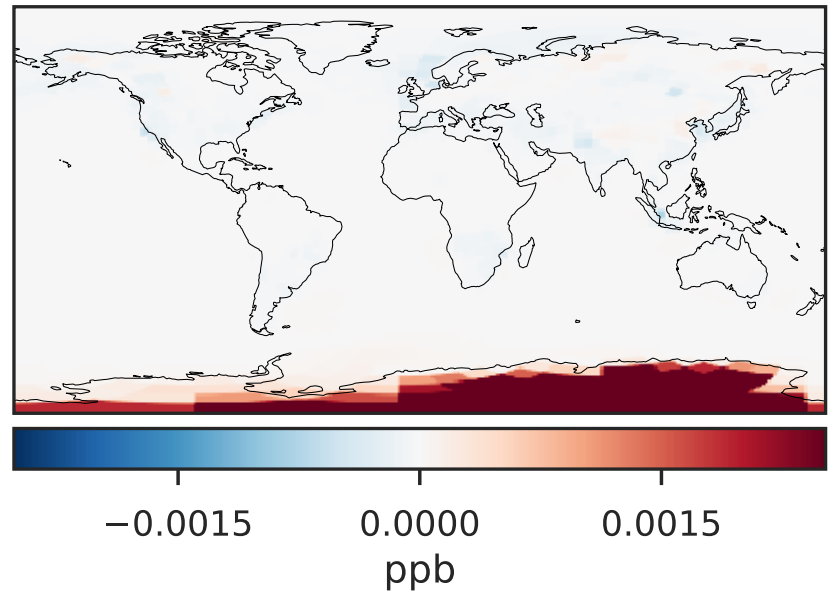
GCHP_14.2.0 (Dev)
c24



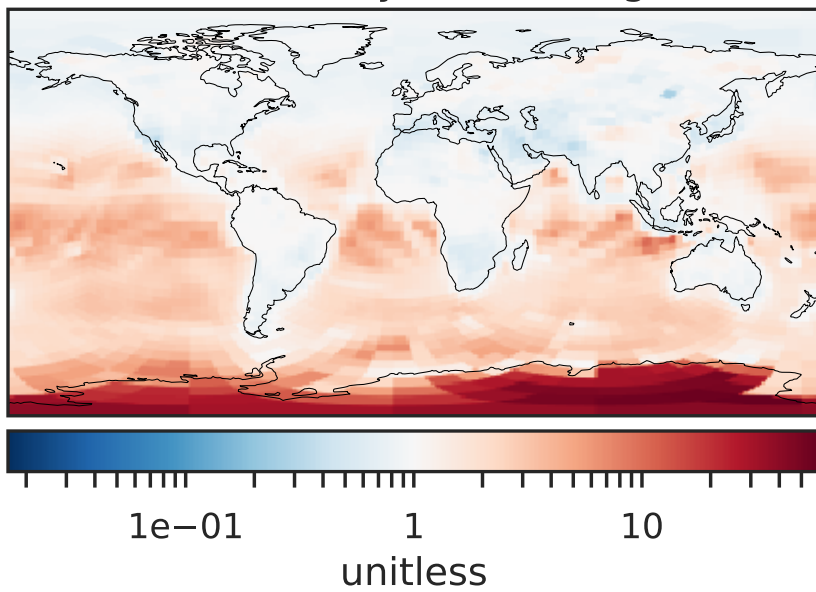
Difference (1x1.25)
Dev - Ref, Dynamic Range



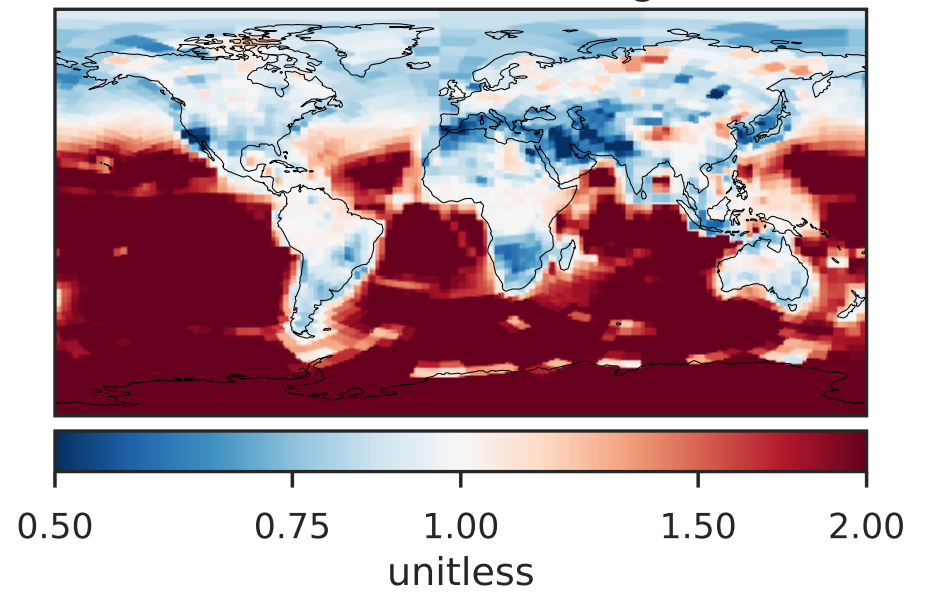
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

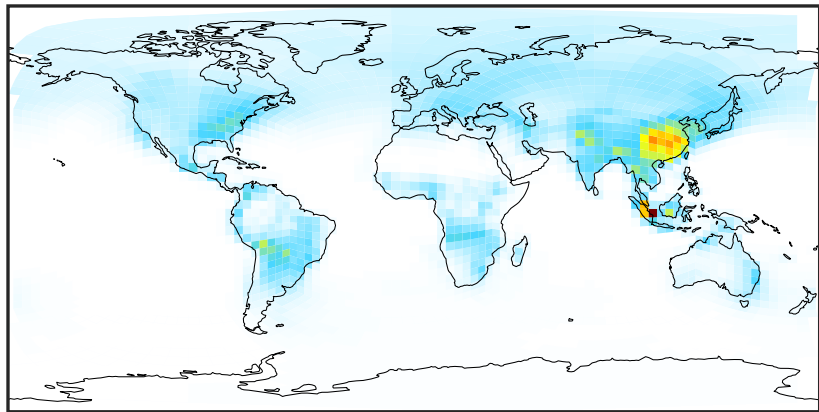


Ratio (1x1.25)
Dev/Ref, Fixed Range



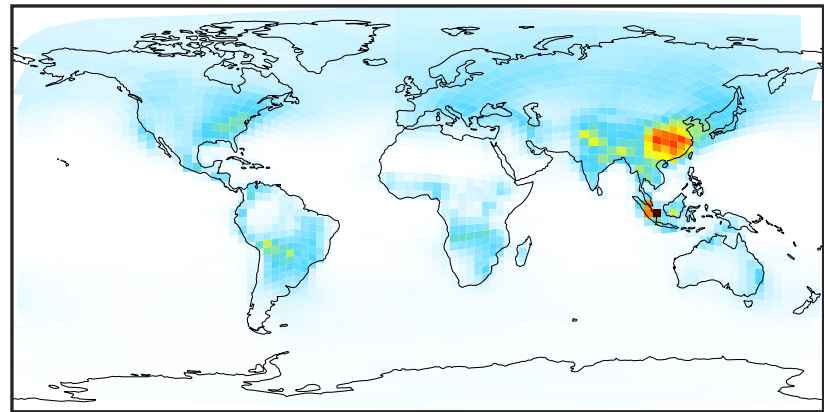
SpeciesConcVV_PAN (Oct2019)

GCHP_14.0.0 (Ref)
c24



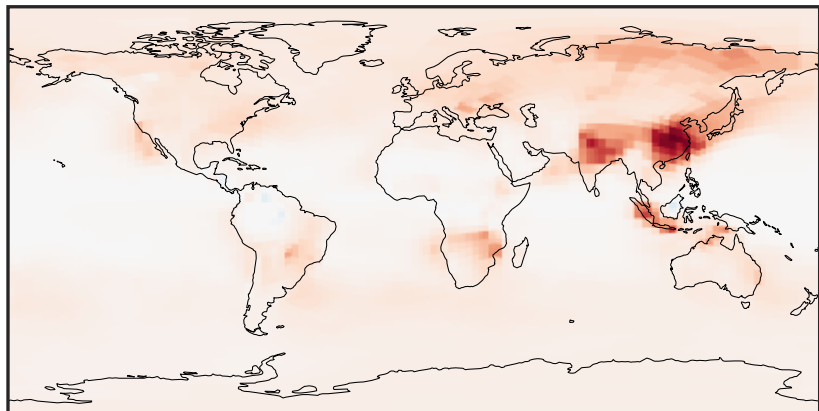
0.000 0.346 0.693 1.039 1.386
ppb

GCHP_14.2.0 (Dev)
c24



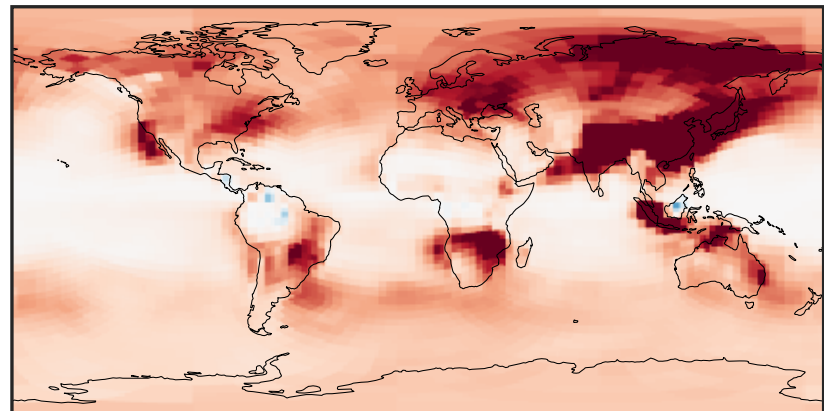
0.000 0.346 0.693 1.039 1.386
ppb

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



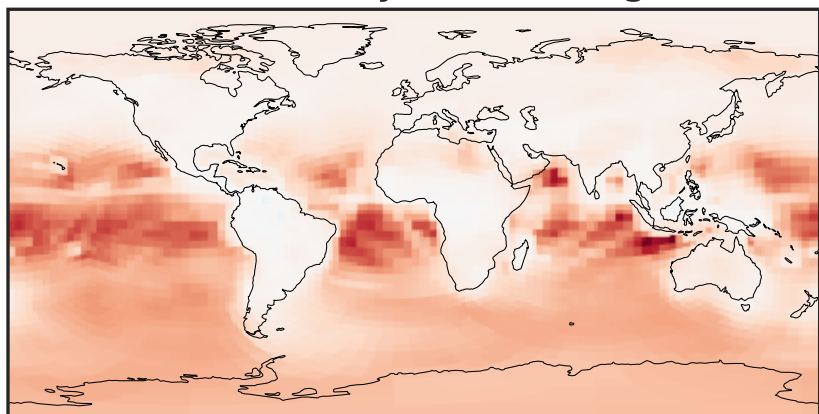
-0.1434 -0.0717 0.0000 0.0717 0.1434
ppb

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



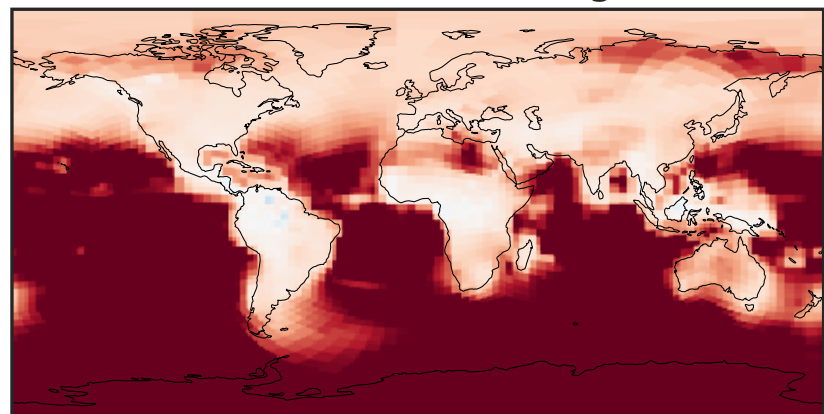
-0.02 0.00 0.02
ppb

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



1e-01 1 10
unitless

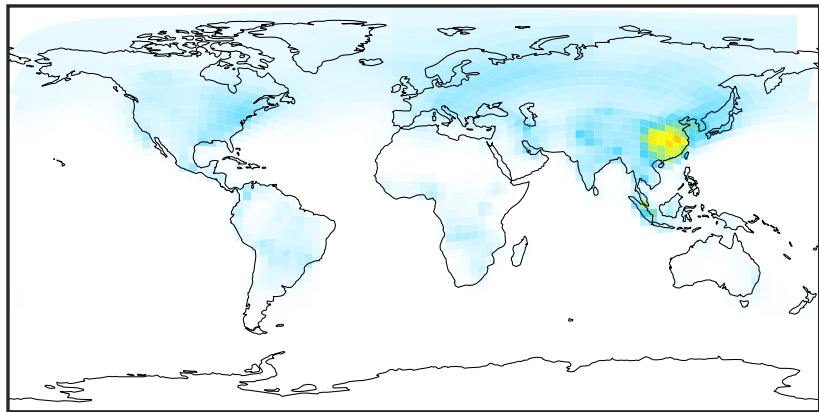
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

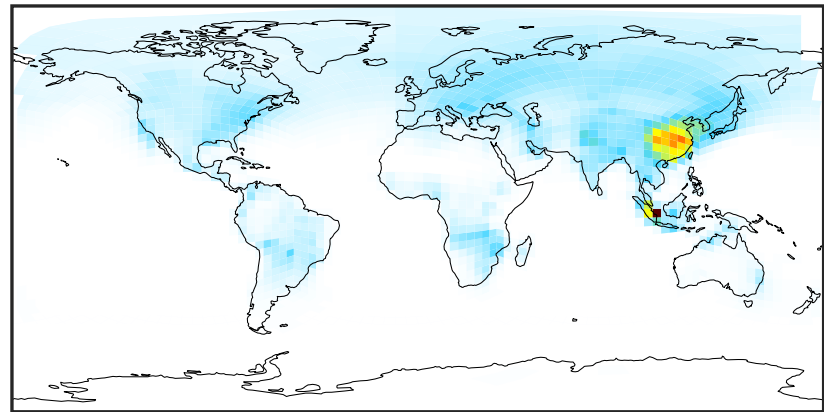
SpeciesConcVV_PPN (Oct2019)

GCHP_14.0.0 (Ref)
c24



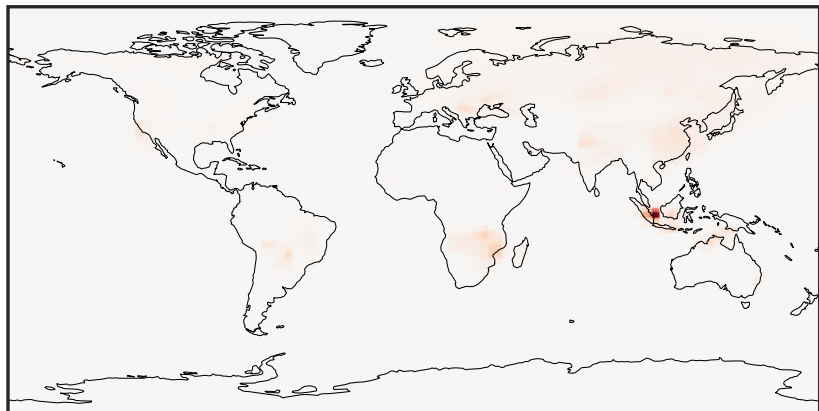
0.0000 0.1053 0.2107 0.3160 0.4214
ppb

GCHP_14.2.0 (Dev)
c24



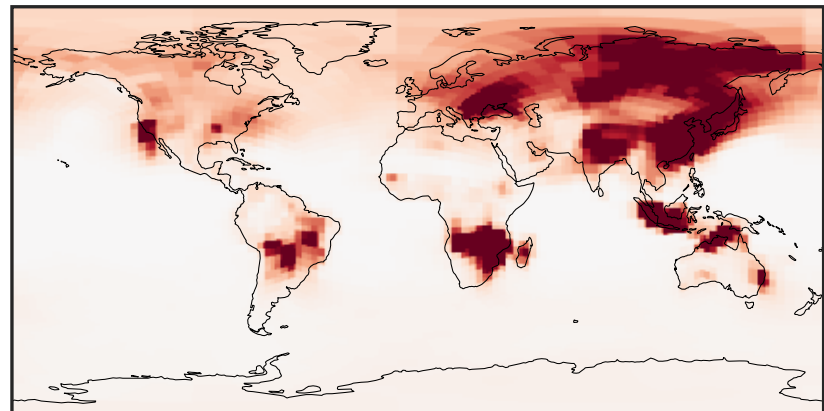
0.0000 0.1053 0.2107 0.3160 0.4214
ppb

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



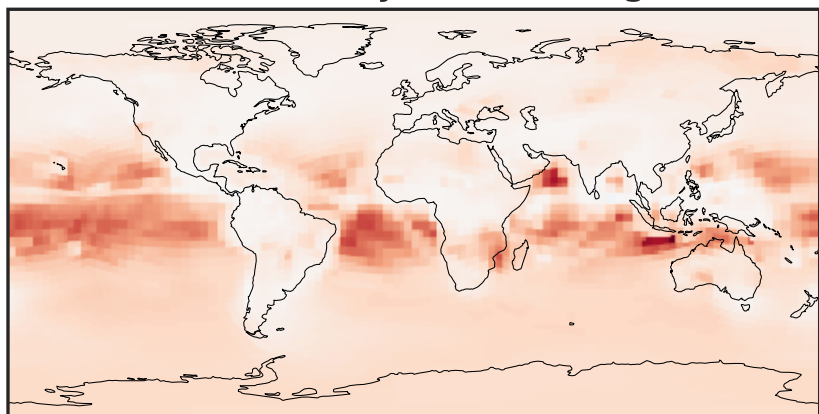
-0.2873 -0.1437 0.0000 0.1437 0.2873
ppb

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



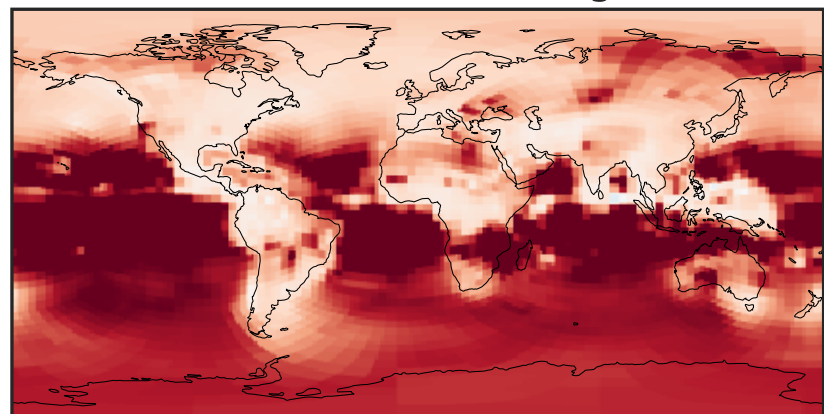
-0.008 0.000 0.008
ppb

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



1e-01 1 10
unitless

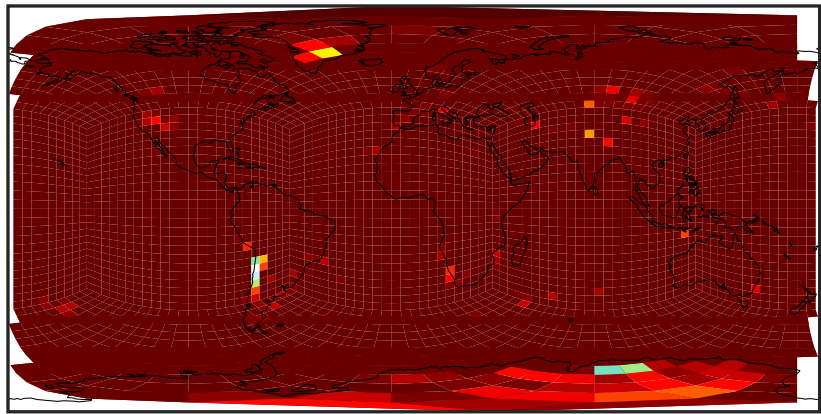
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

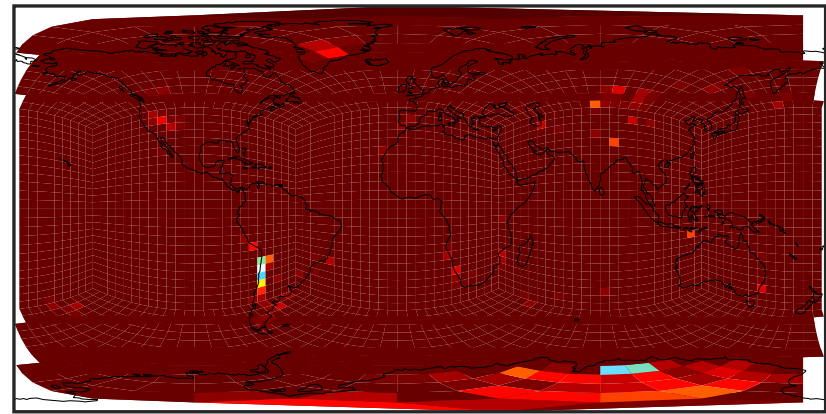
SpeciesConcVW_N2O (Oct2019)

GCHP_14.0.0 (Ref)
c24



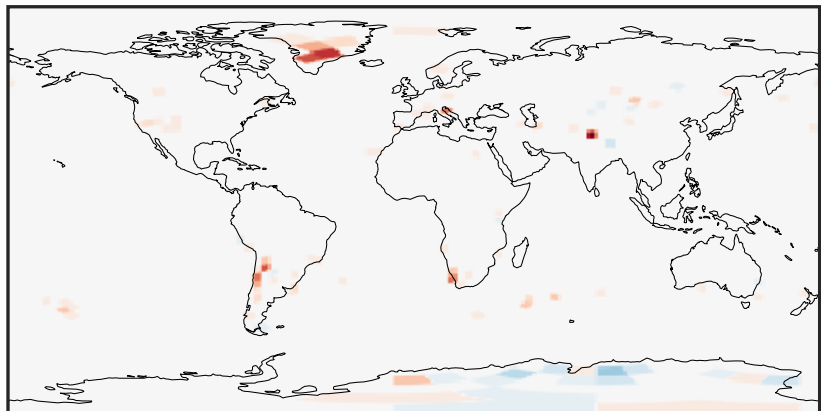
0.0000 0.0003 0.0006 0.0009
ppb +3.30502e2

GCHP_14.2.0 (Dev)
c24



0.0000 0.0003 0.0006 0.0009
ppb +3.30502e2

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



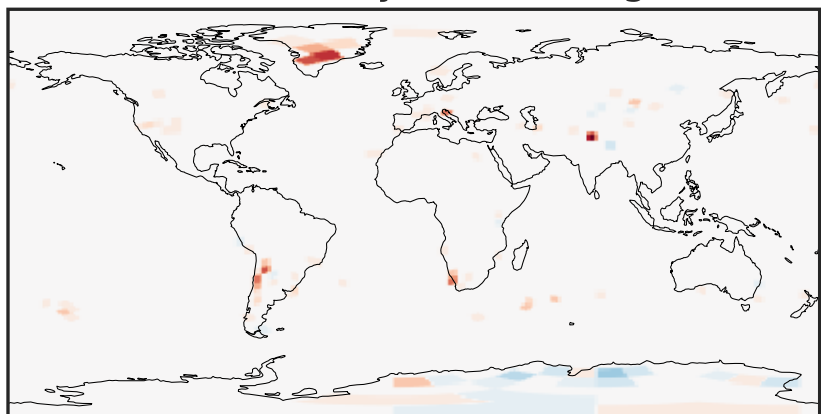
-0.0002 0.0000 0.0002
ppb

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



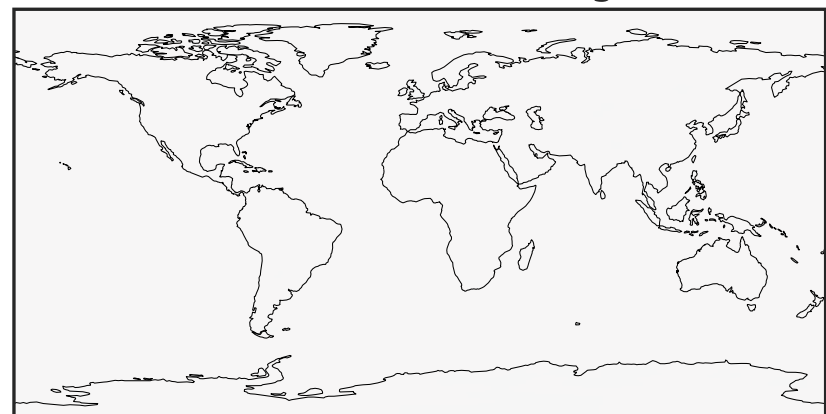
-1.0 -0.5 0.0 0.5 1.0
ppb

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



0.999998984 1.000000000 1.000001016
unitless

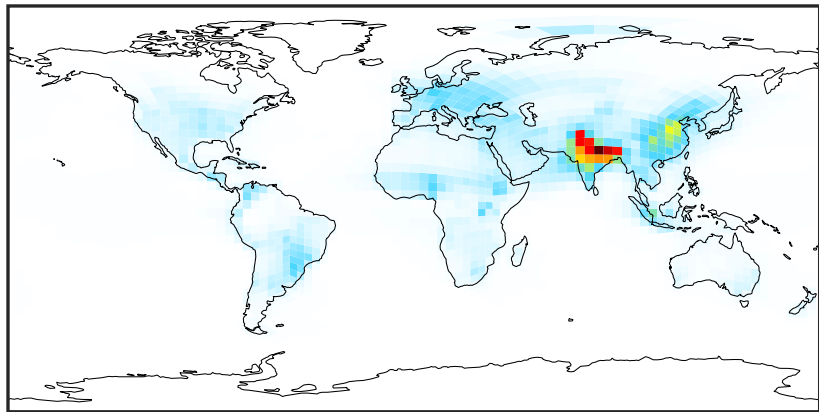
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

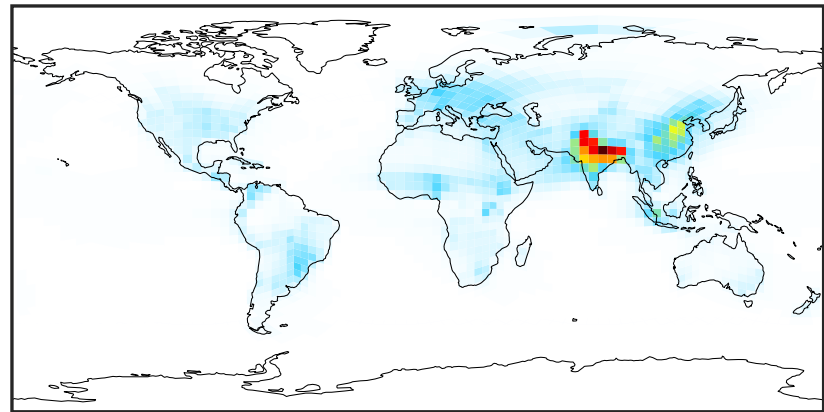
SpeciesConcVV_NHx (Oct2019)

GCHP_14.0.0 (Ref)
c24



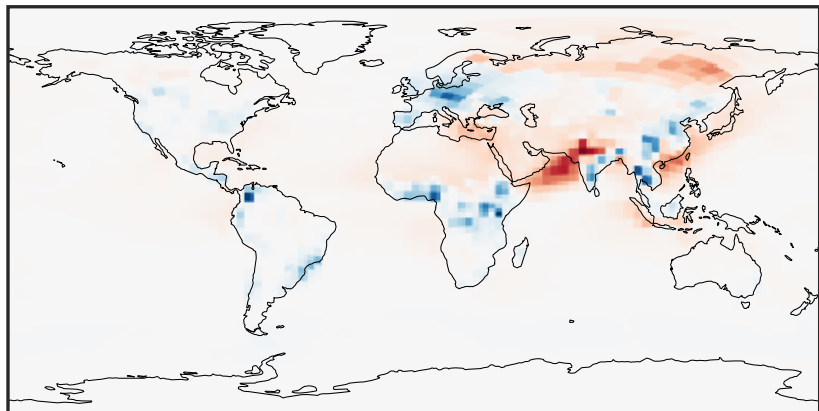
0.01 10.57 21.15 31.72 42.31
ppb

GCHP_14.2.0 (Dev)
c24



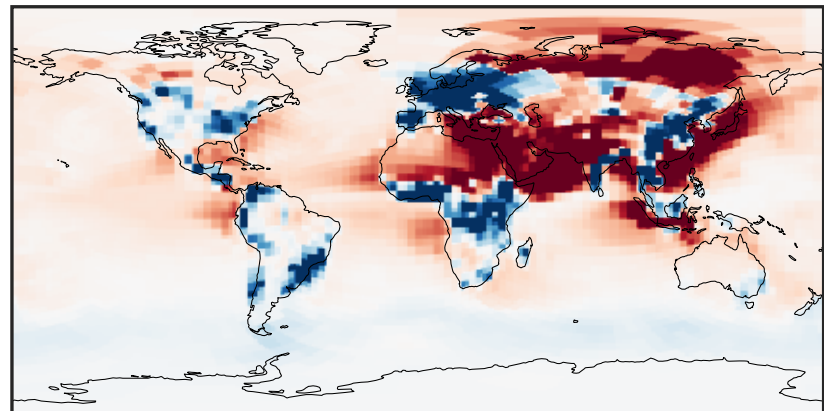
0.01 10.57 21.15 31.72 42.31
ppb

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



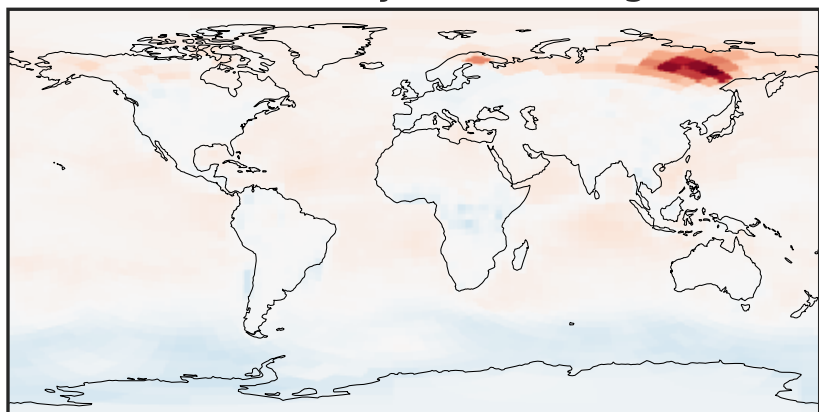
-0.3395 -0.1698 0.0000 0.1698 0.3395
ppb

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



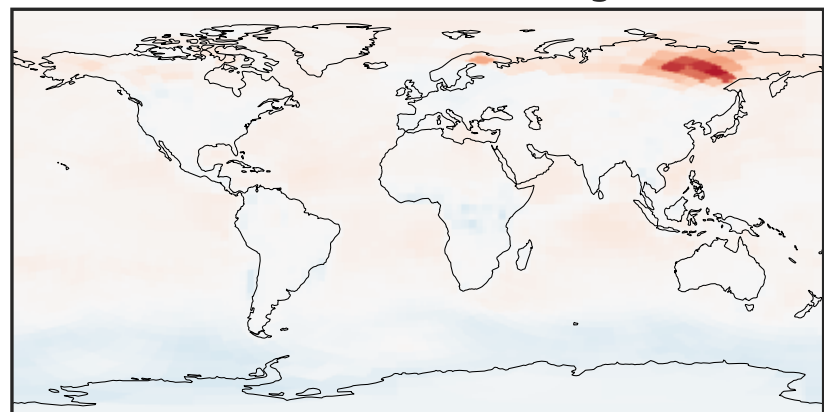
-0.02 0.00 0.02
ppb

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



0.578 0.789 1.000 1.365 1.730
unitless

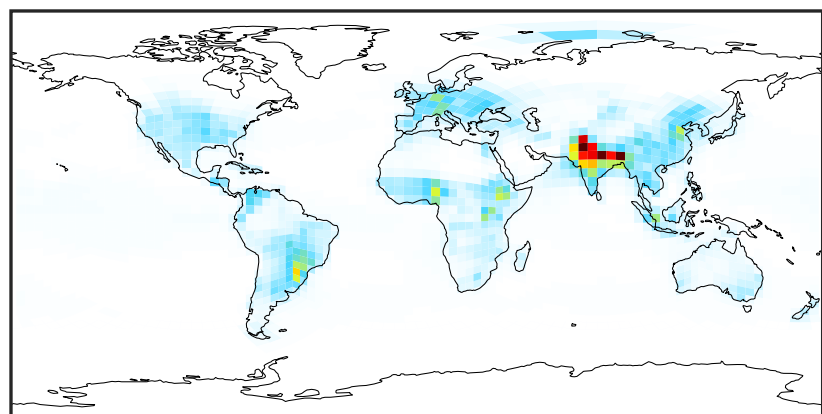
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

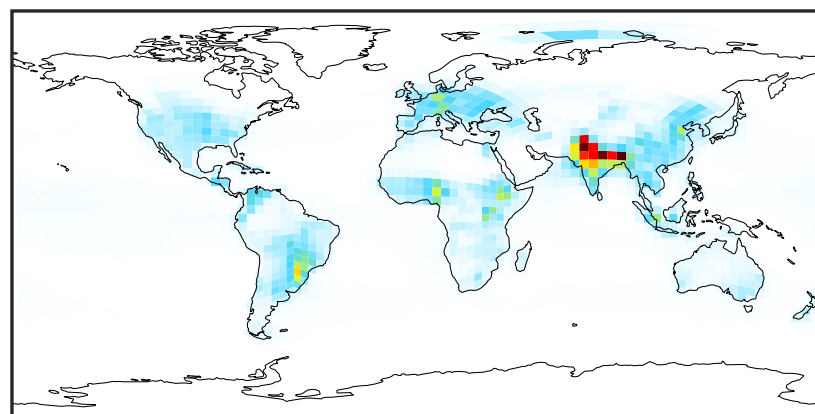
SpeciesConcVV_NH3 (Oct2019)

GCHP_14.0.0 (Ref)
c24



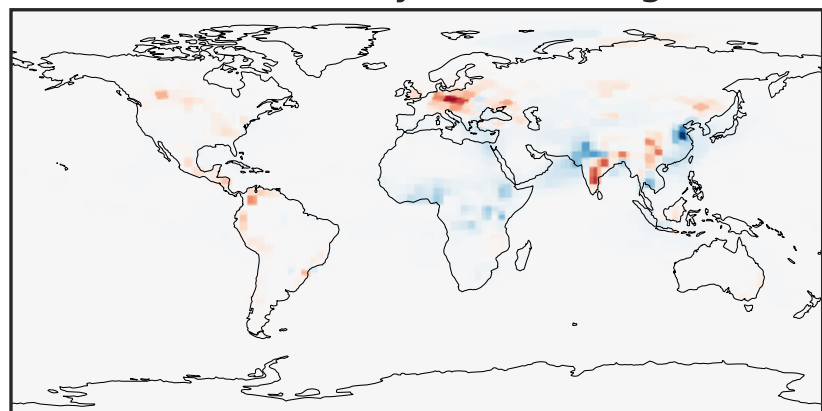
0.00 4.58 9.15 13.73 18.30
ppb

GCHP_14.2.0 (Dev)
c24



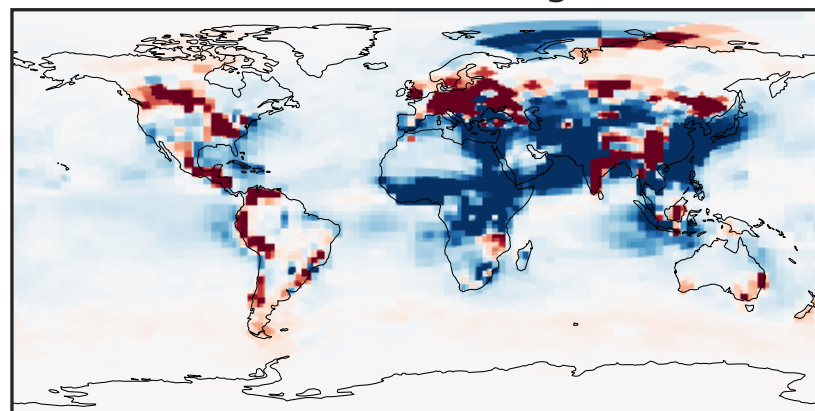
0.00 4.58 9.15 13.73 18.30
ppb

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



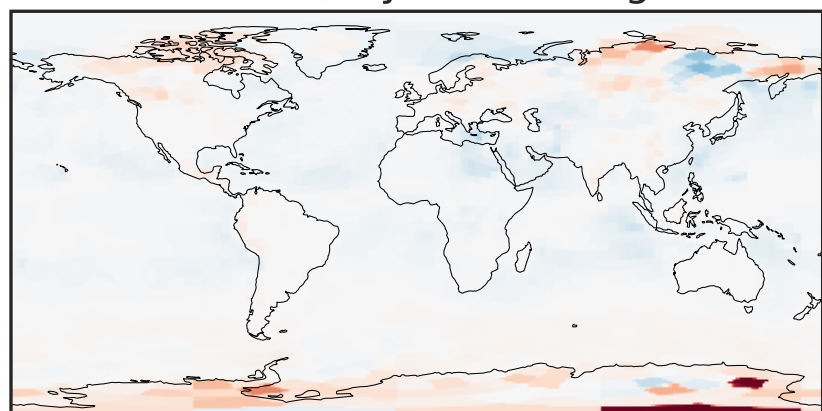
-0.636 -0.318 0.000 0.318 0.636
ppb

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



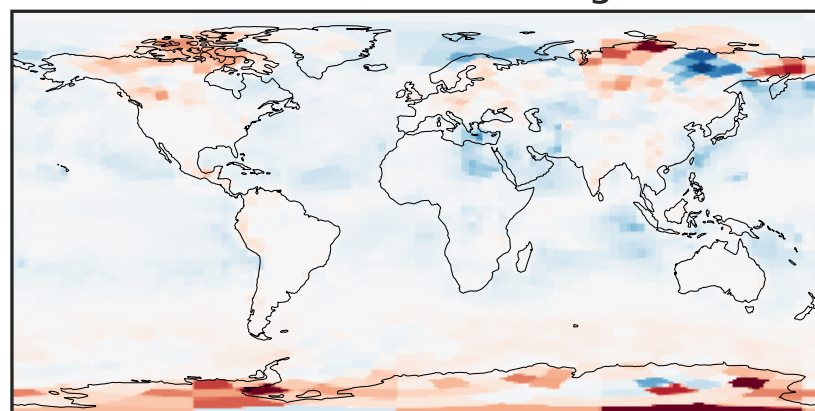
-0.015 0.000 0.015
ppb

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



0.222 0.611 1.000 2.747 4.495
unitless

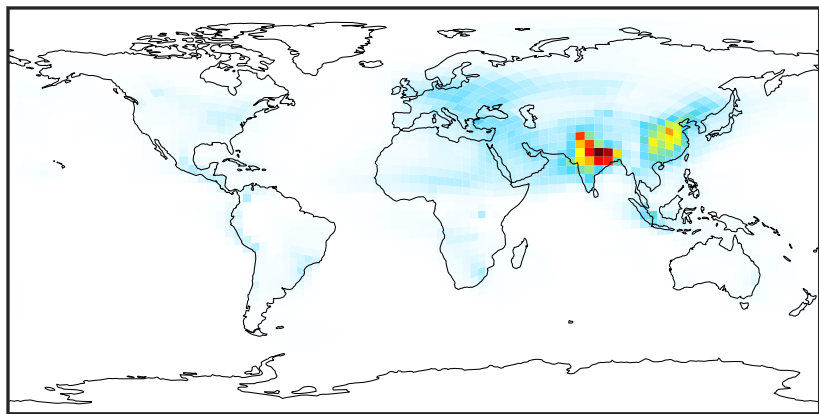
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

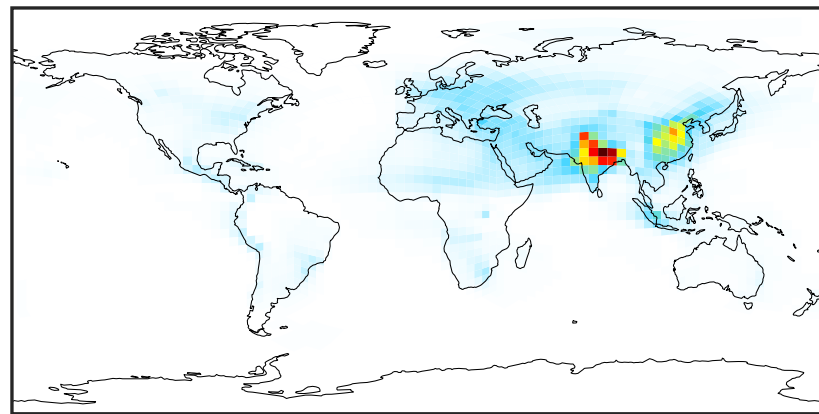
SpeciesConcVV_NH4 (Oct2019)

GCHP_14.0.0 (Ref)
c24



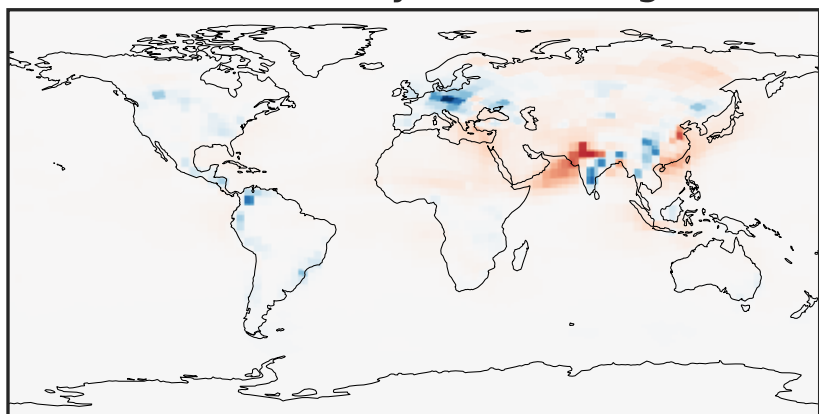
0.00 6.16 12.32 18.48 24.65
ppb

GCHP_14.2.0 (Dev)
c24



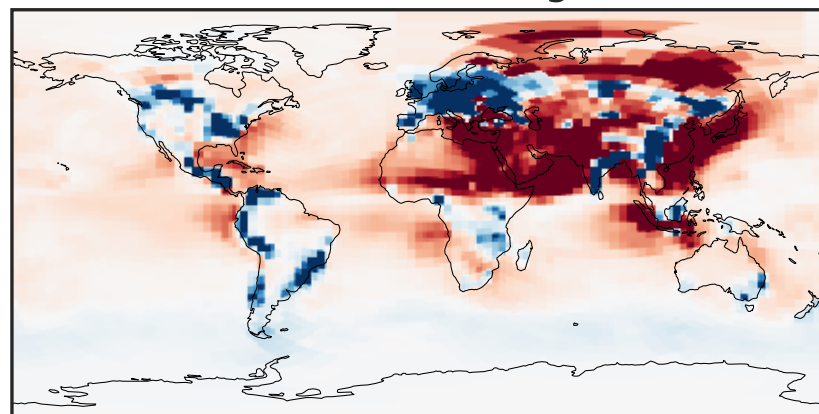
0.00 6.16 12.32 18.48 24.65
ppb

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



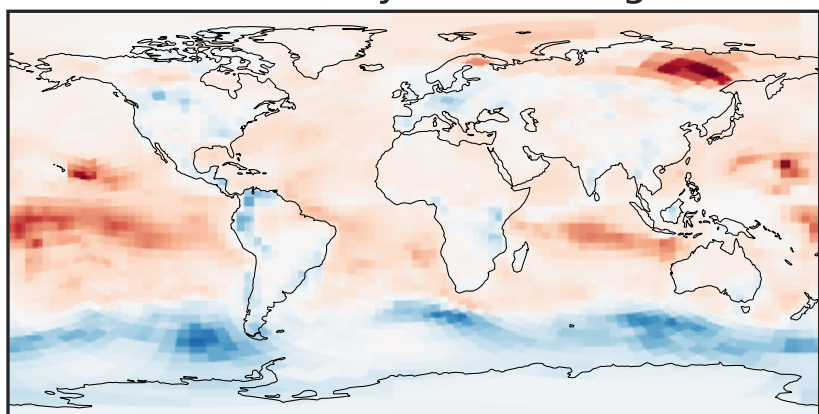
-0.84 -0.42 0.00 0.42 0.84
ppb

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



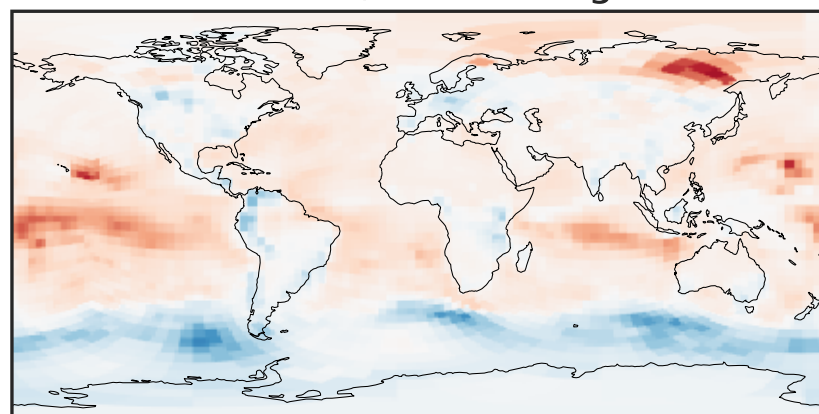
-0.0585 -0.0293 0.0000 0.0293 0.0585
ppb

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



0.566 0.783 1.000 1.384 1.768
unitless

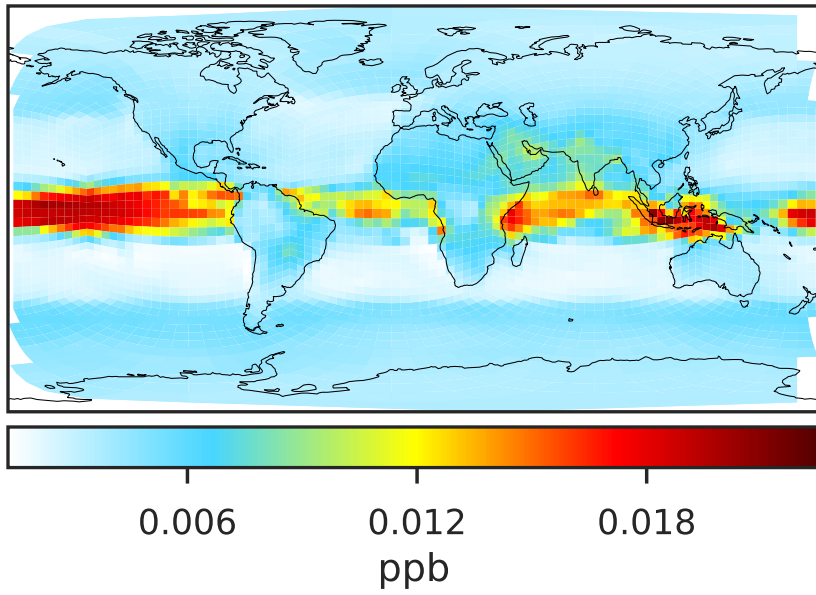
Ratio (1x1.25)
Dev/Ref, Fixed Range



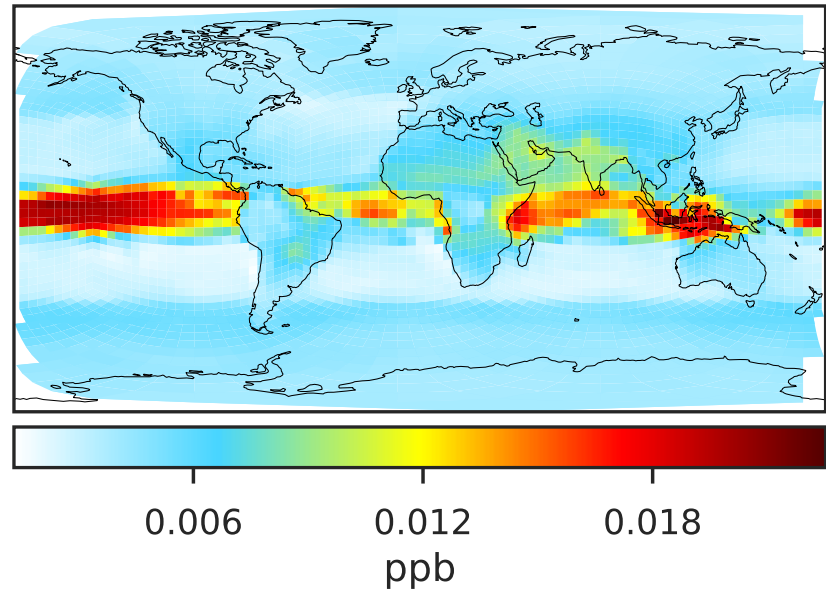
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_MENO3 (Oct2019)

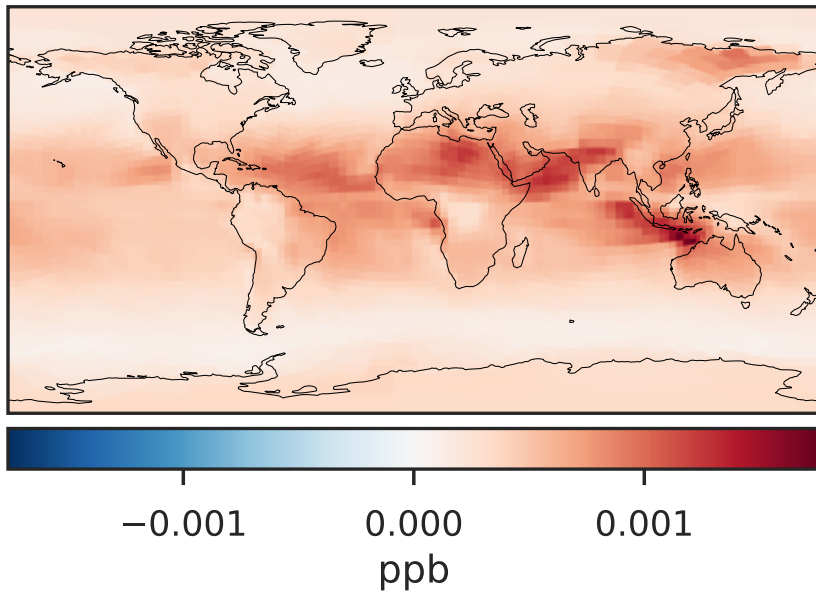
GCHP_14.0.0 (Ref)
c24



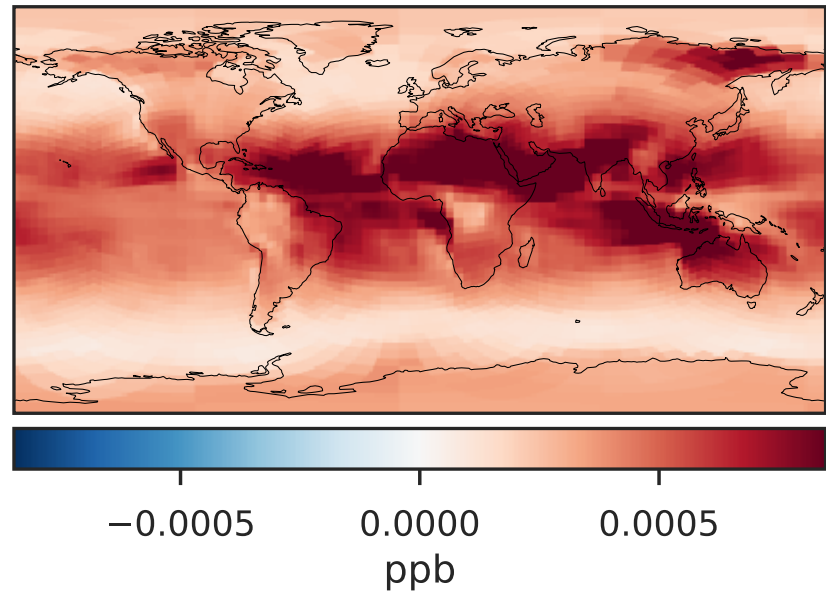
GCHP_14.2.0 (Dev)
c24



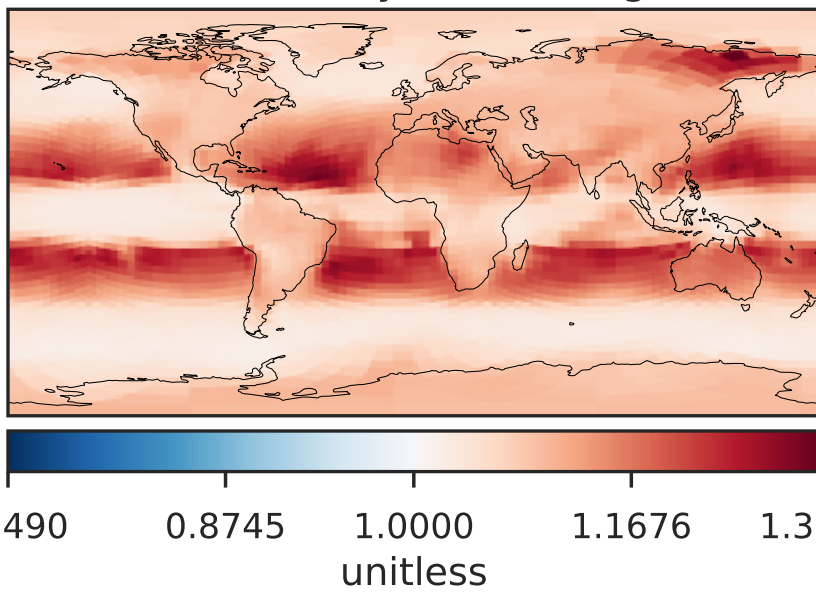
Difference (1x1.25)
Dev - Ref, Dynamic Range



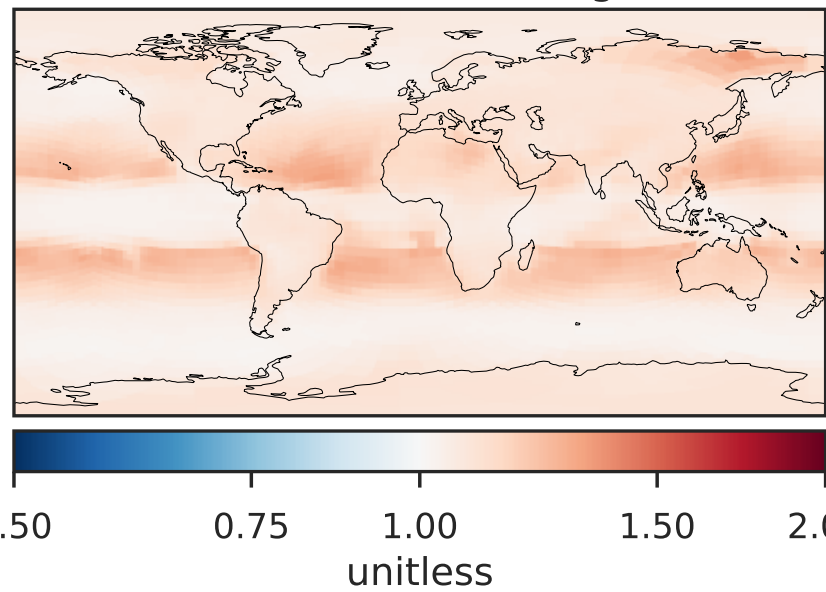
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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



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

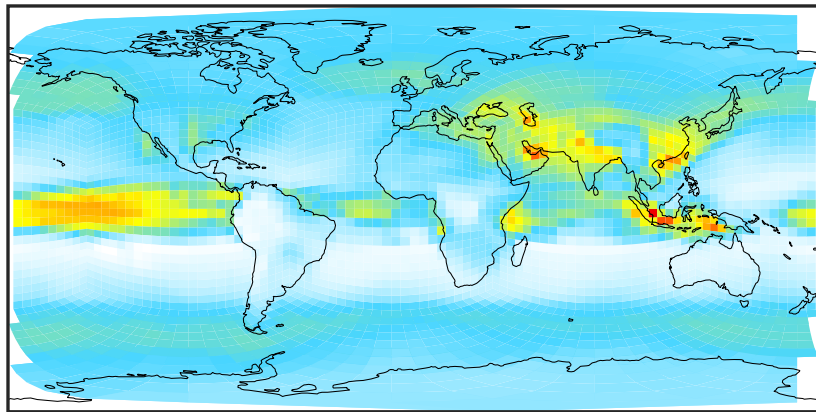


0.7490 0.8745 1.0000 1.1676 1.3352
unitless

0.50 0.75 1.00 1.50 2.00
unitless

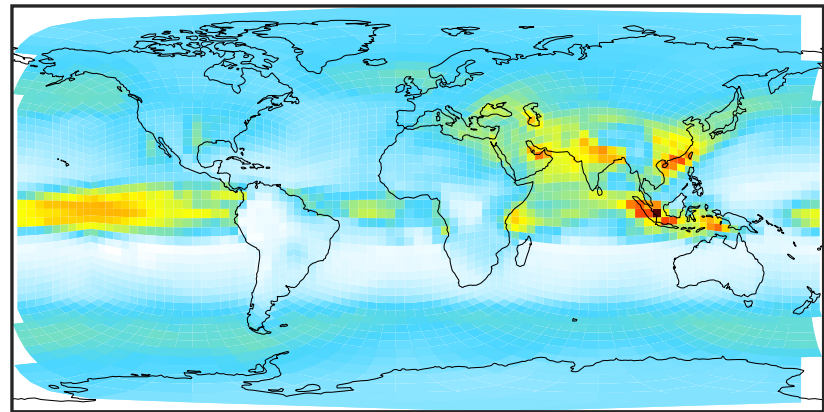
SpeciesConcVV_ETNO3 (Oct2019)

GCHP_14.0.0 (Ref)
c24



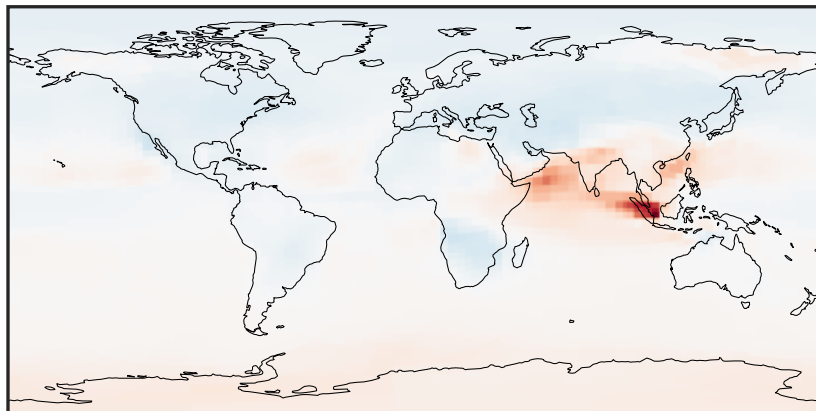
0.003 0.006 0.009
ppb

GCHP_14.2.0 (Dev)
c24



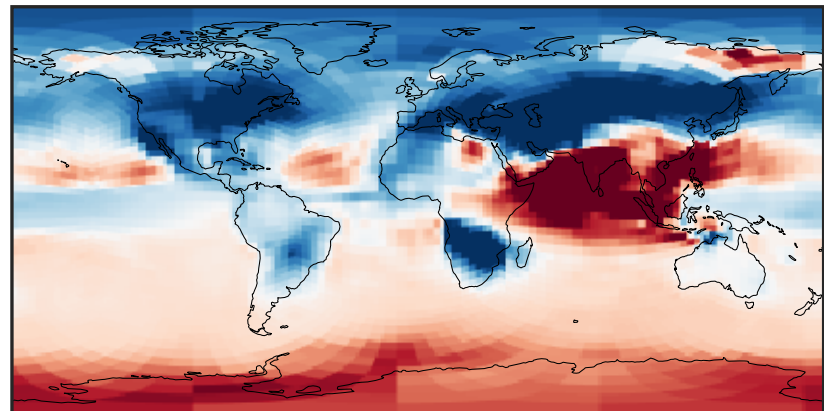
0.003 0.006 0.009
ppb

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



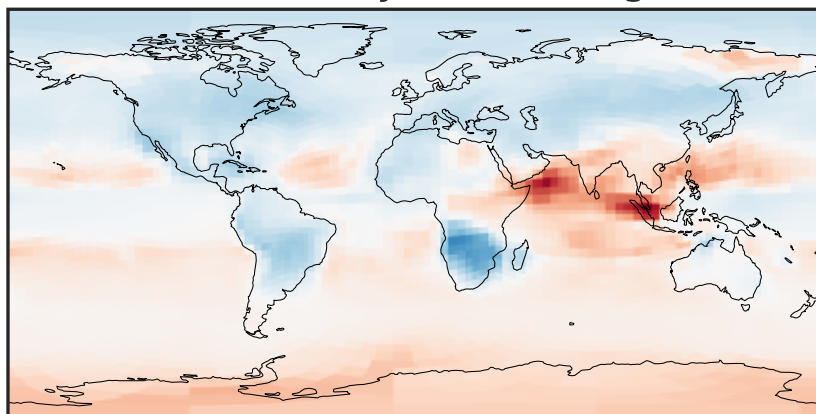
-0.0015 0.0000 0.0015
ppb

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



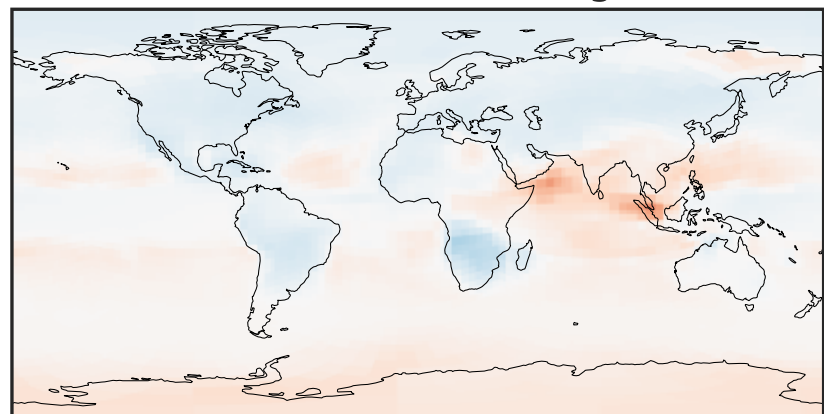
-0.00015 0.00000 0.00015
ppb

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



0.7169 0.8585 1.0000 1.1974 1.3948
unitless

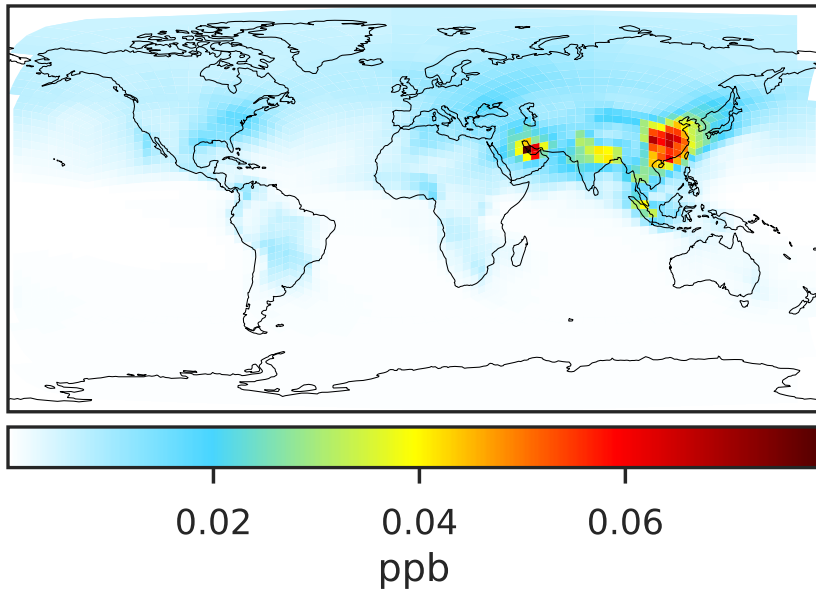
Ratio (1x1.25)
Dev/Ref, Fixed Range



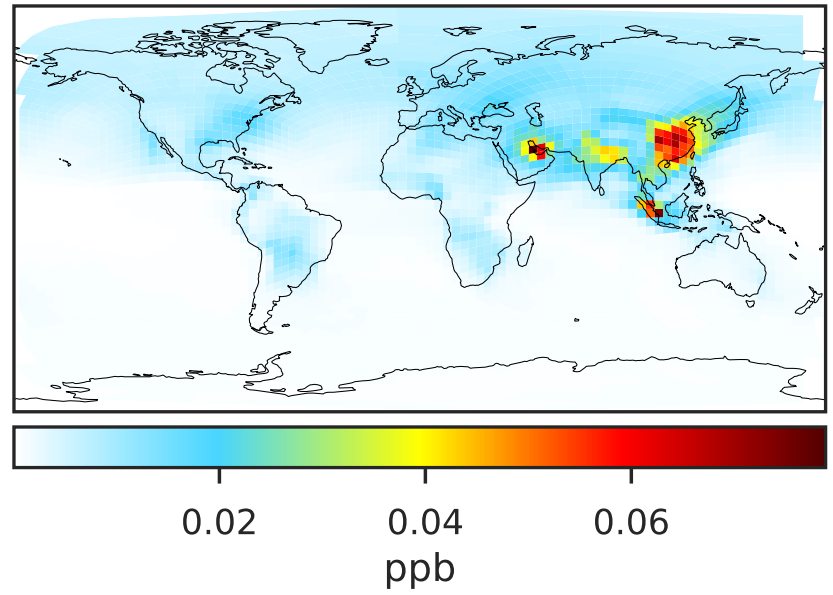
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_IPRNO3 (Oct2019)

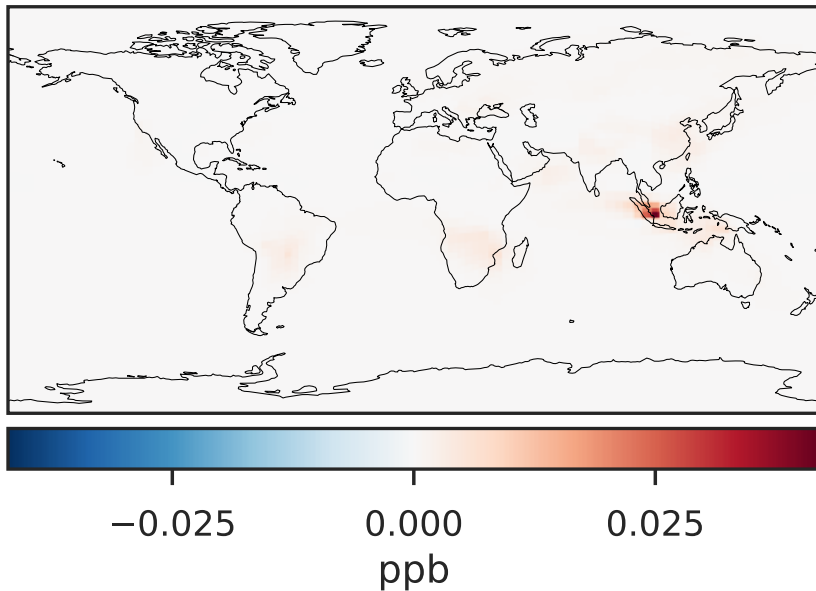
GCHP_14.0.0 (Ref)
c24



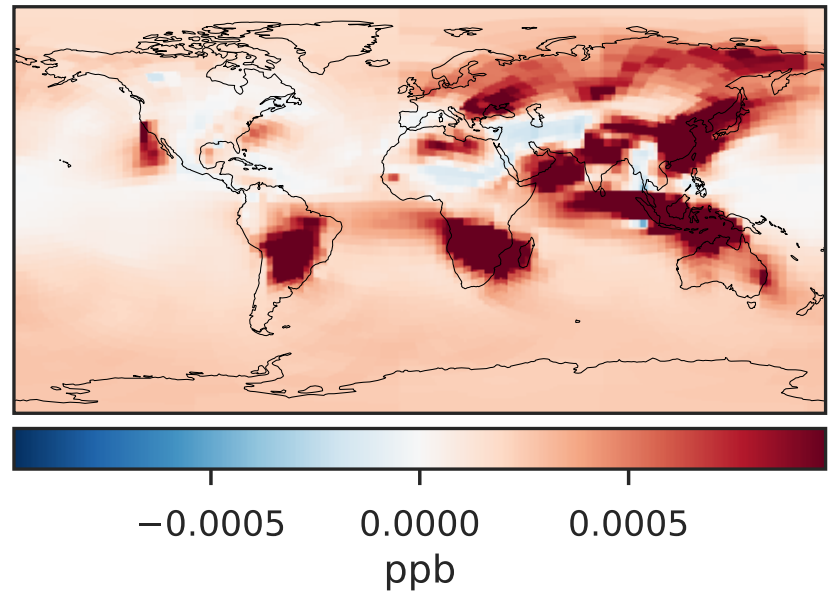
GCHP_14.2.0 (Dev)
c24



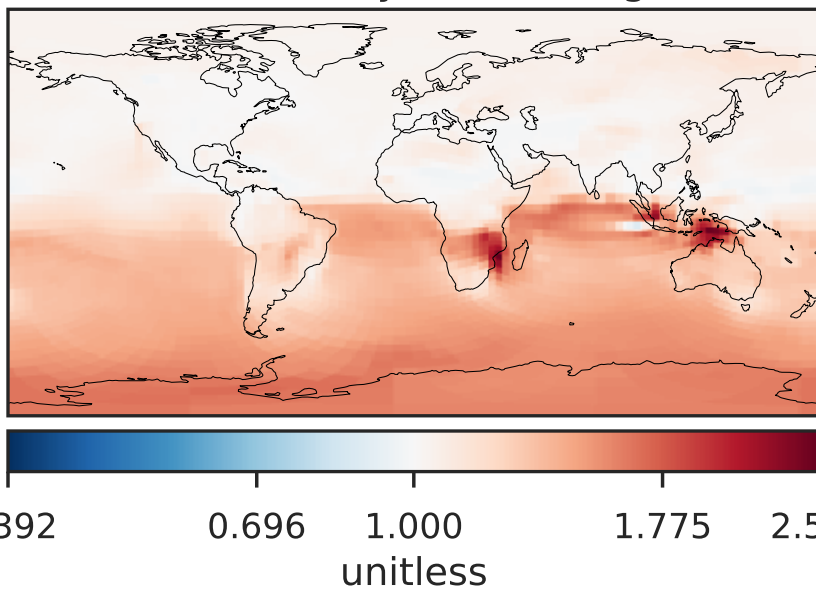
Difference (1x1.25)
Dev - Ref, Dynamic Range



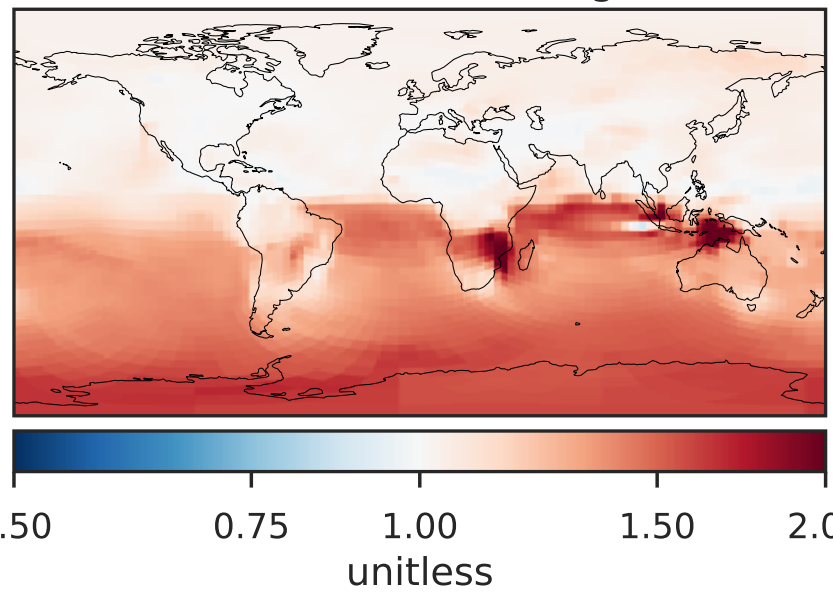
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

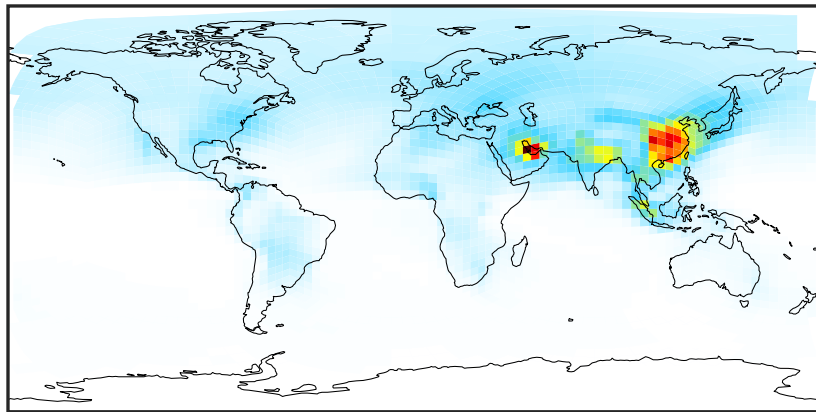


Ratio (1x1.25)
Dev/Ref, Fixed Range



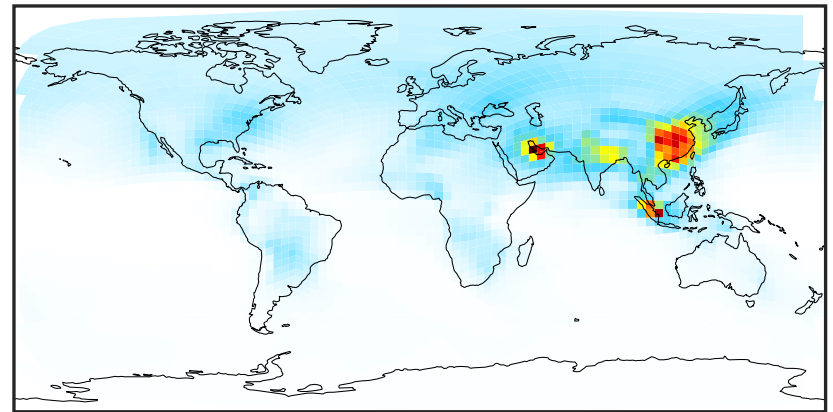
SpeciesConcVV_NPRNO3 (Oct2019)

GCHP_14.0.0 (Ref)
c24



0.006 0.012 0.018
ppb

GCHP_14.2.0 (Dev)
c24



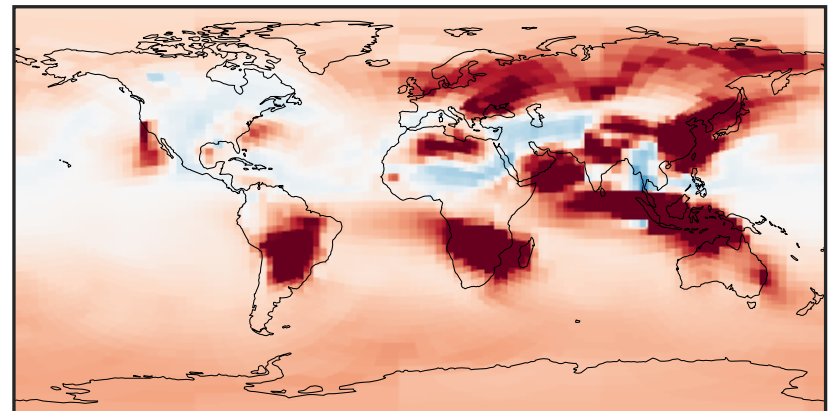
0.006 0.012 0.018
ppb

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



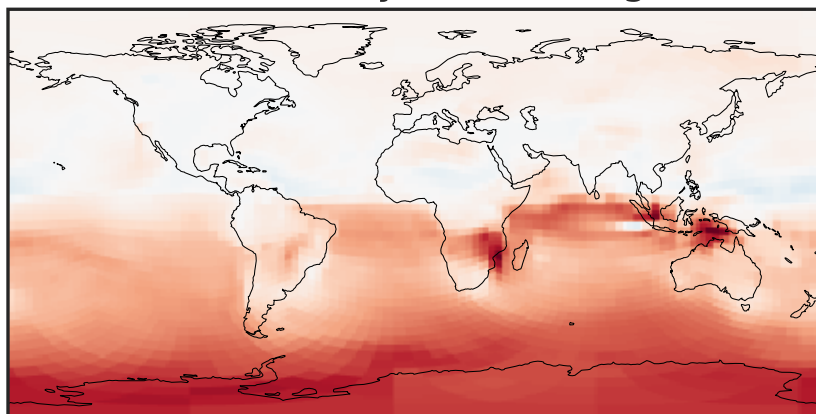
-0.006 0.000 0.006
ppb

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



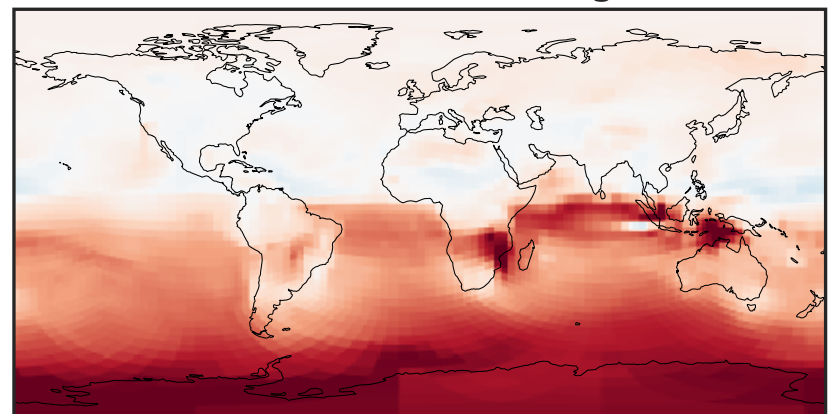
-0.00015 0.00000 0.00015
ppb

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



0.410 0.705 1.000 1.721 2.442
unitless

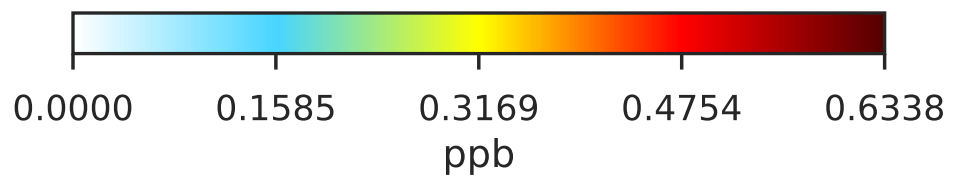
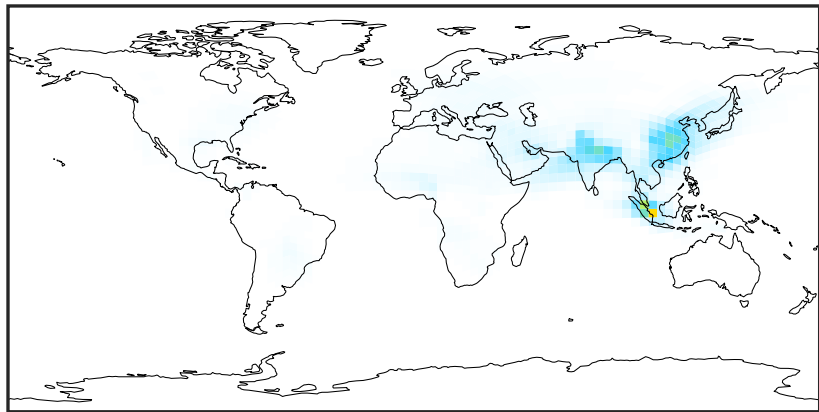
Ratio (1x1.25)
Dev/Ref, Fixed Range



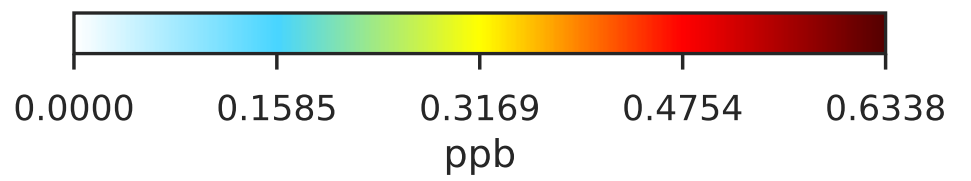
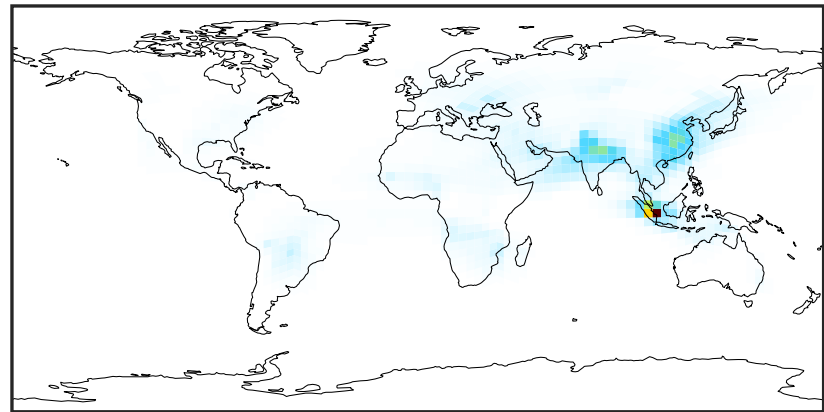
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_AONITA (Oct2019)

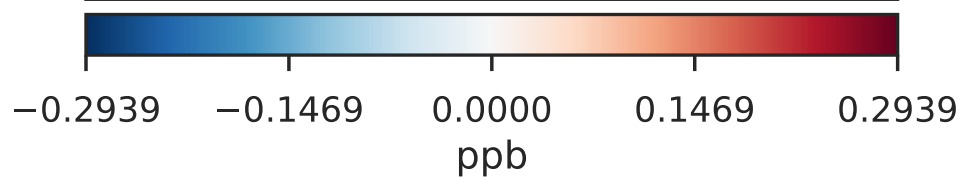
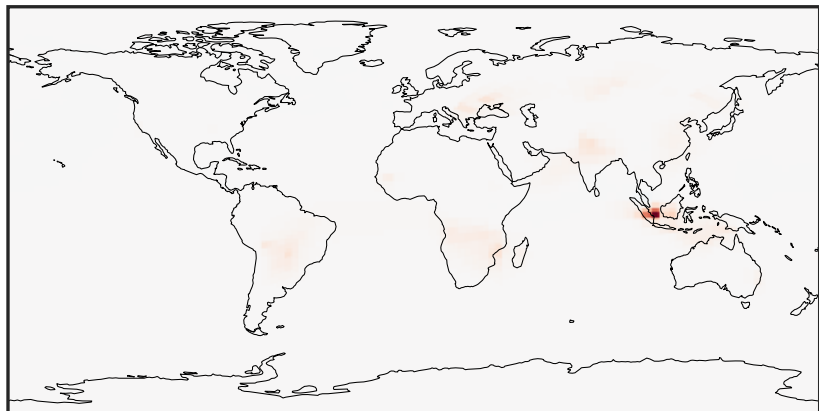
GCHP_14.0.0 (Ref)
c24



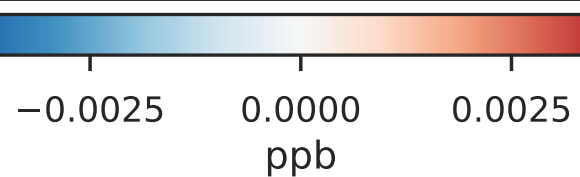
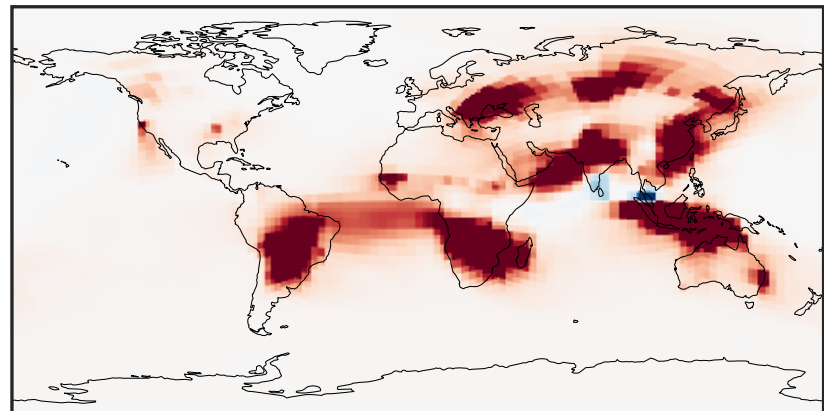
GCHP_14.2.0 (Dev)
c24



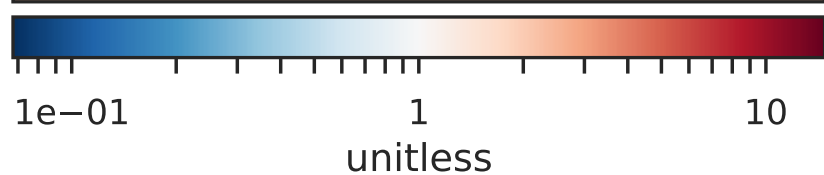
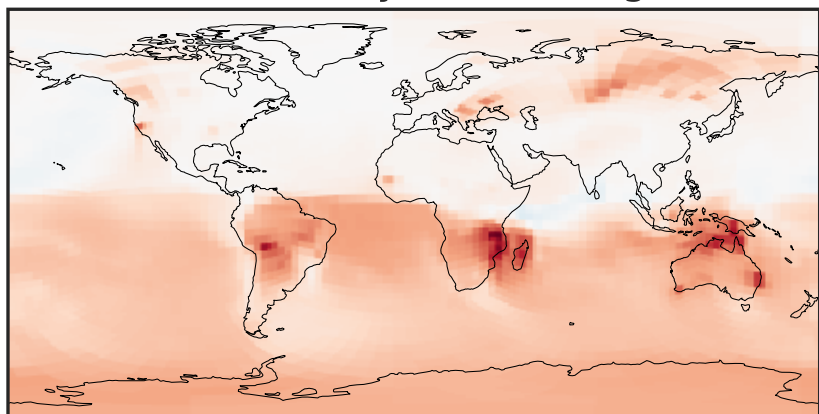
Difference (1x1.25)
Dev - Ref, Dynamic Range



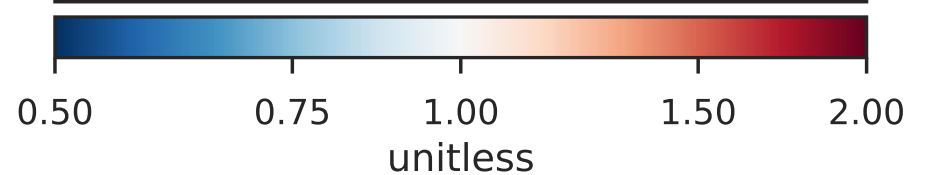
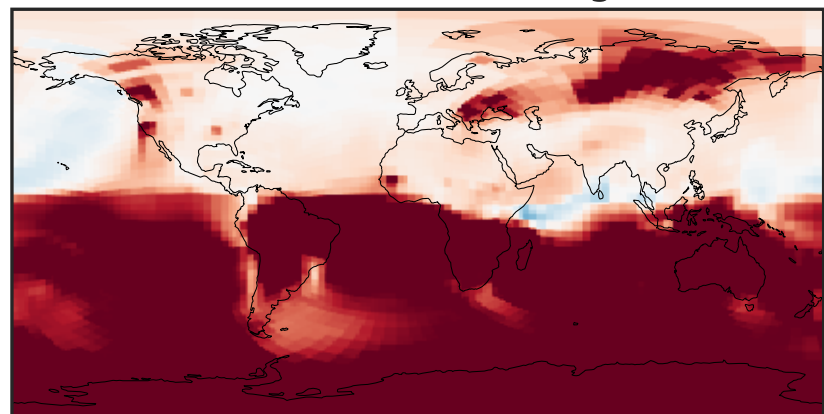
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

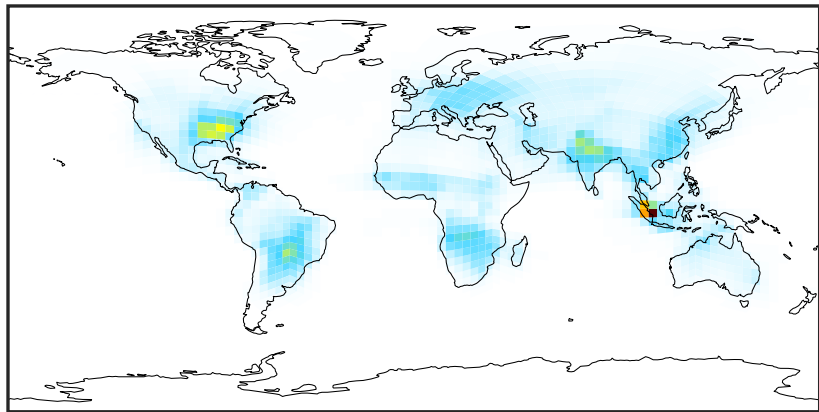


Ratio (1x1.25)
Dev/Ref, Fixed Range



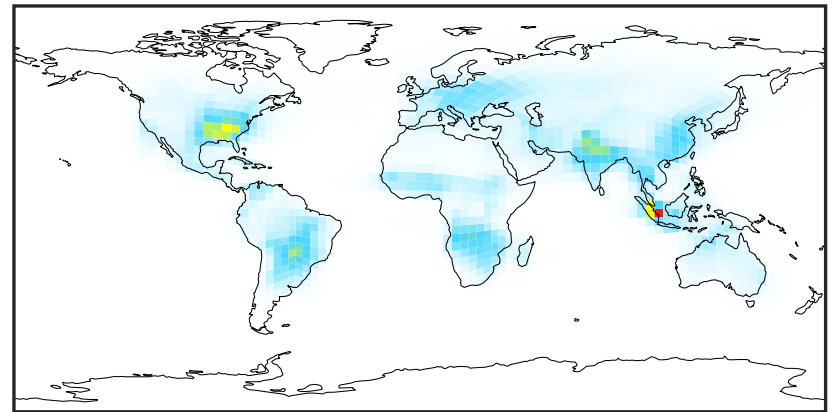
SpeciesConcVV_ETHN (Oct2019)

GCHP_14.0.0 (Ref)
c24



0.004 0.008 0.012
ppb

GCHP_14.2.0 (Dev)
c24



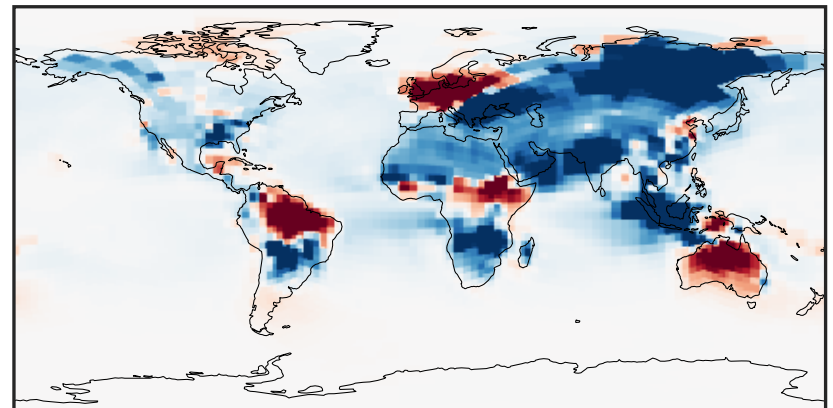
0.004 0.008 0.012
ppb

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



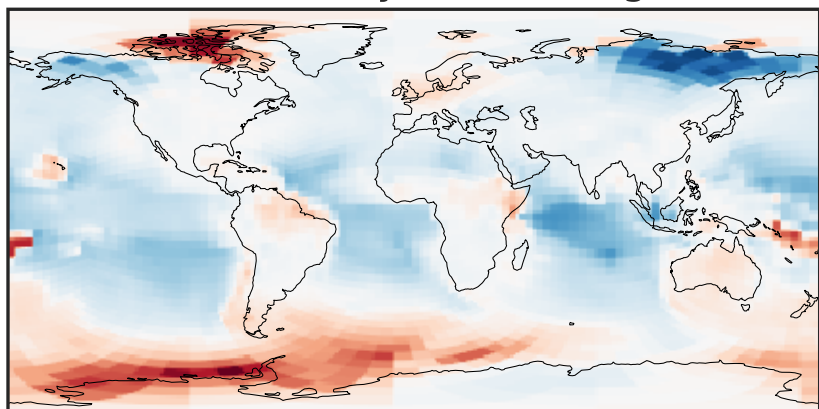
-0.002 0.000 0.002
ppb

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



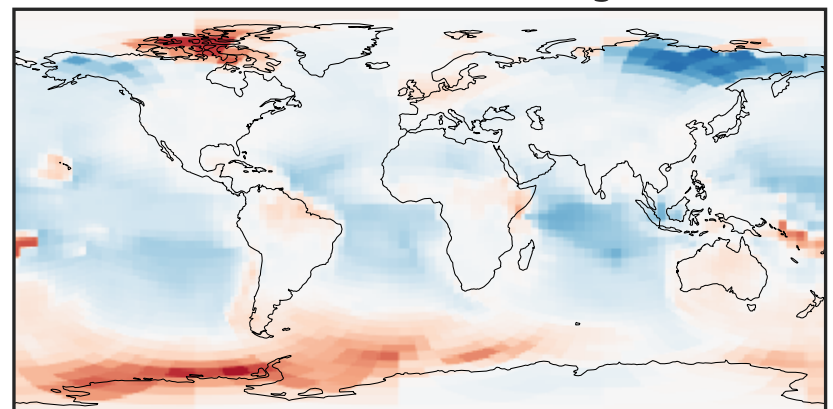
-2 0 2
ppb $1e-5$

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



0.567 0.783 1.000 1.382 1.764
unitless

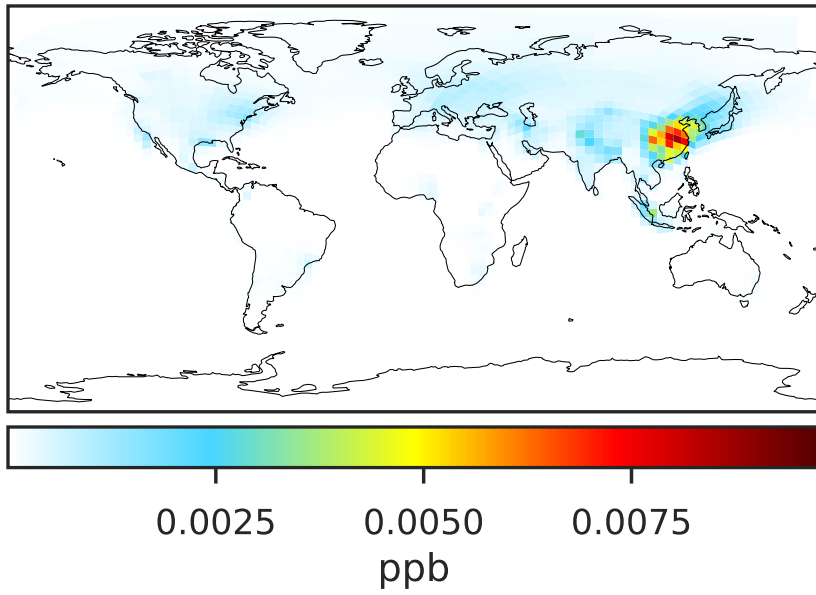
Ratio (1x1.25)
Dev/Ref, Fixed Range



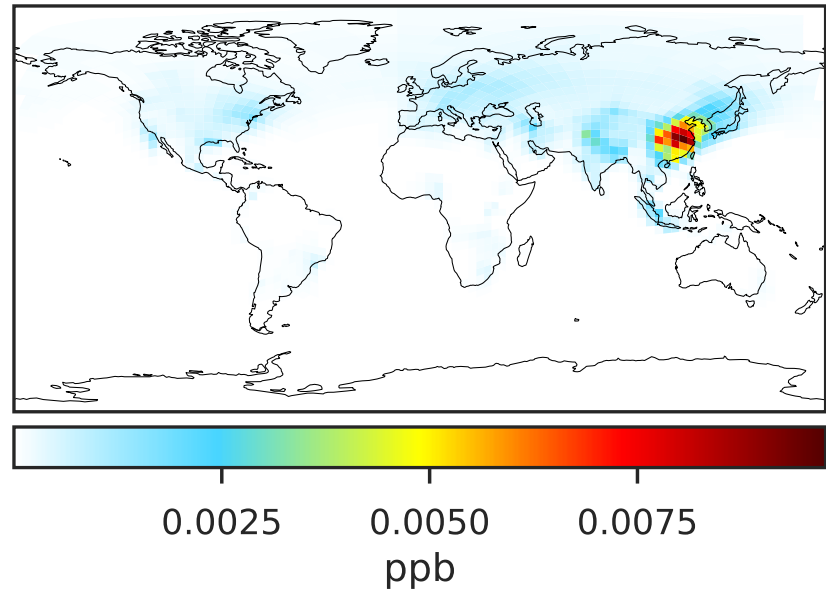
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_BZPAN (Oct2019)

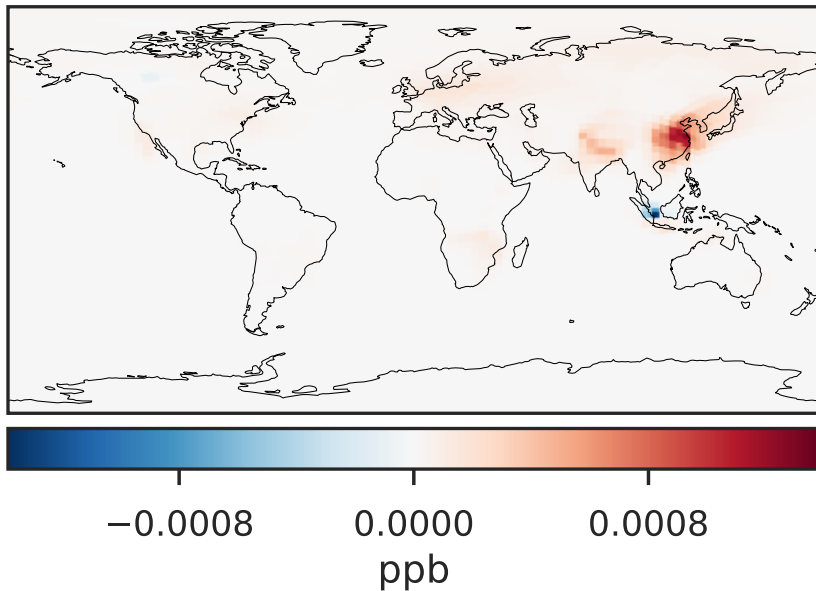
GCHP_14.0.0 (Ref)
c24



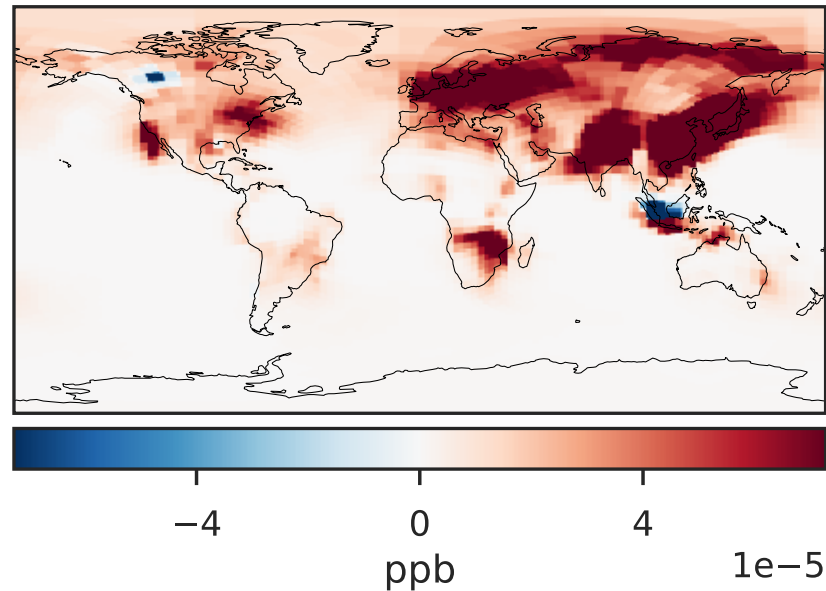
GCHP_14.2.0 (Dev)
c24



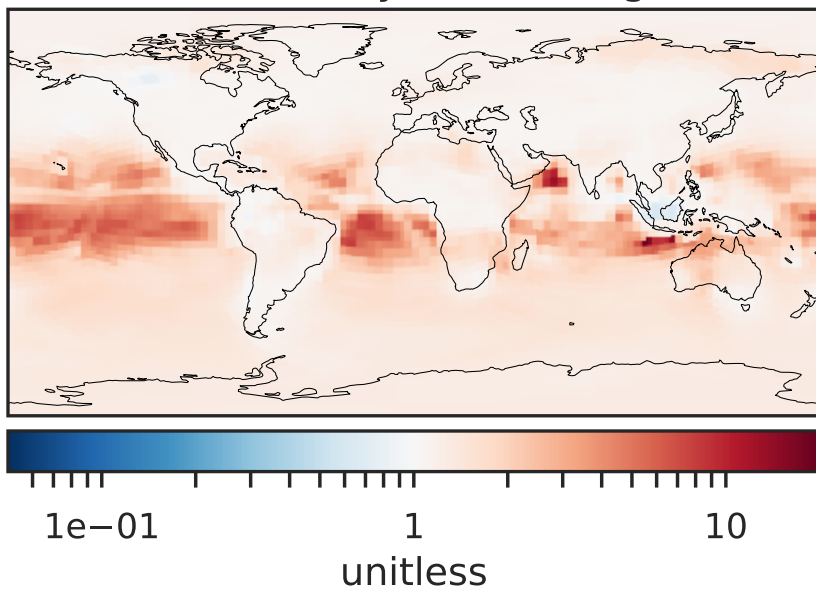
Difference (1x1.25)
Dev - Ref, Dynamic Range



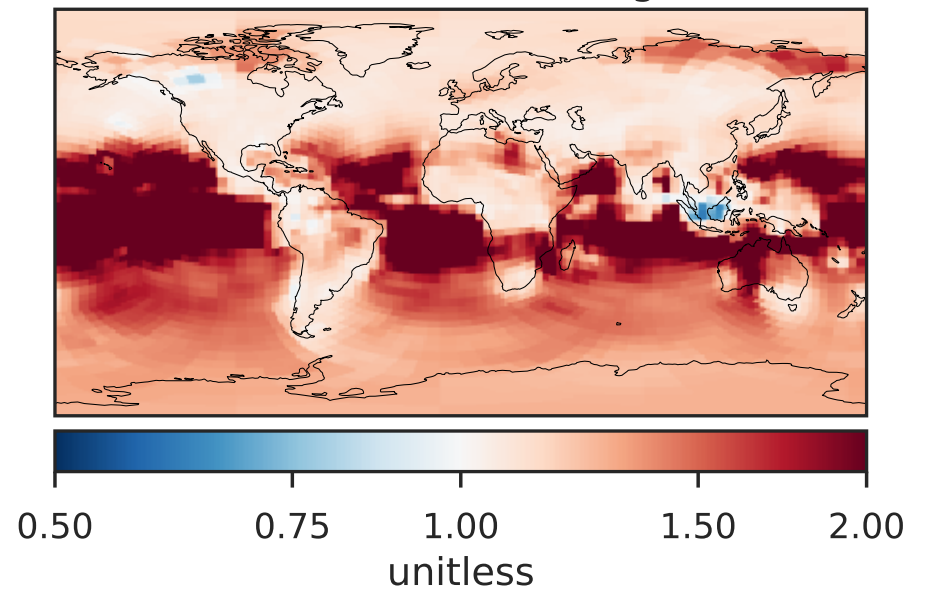
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

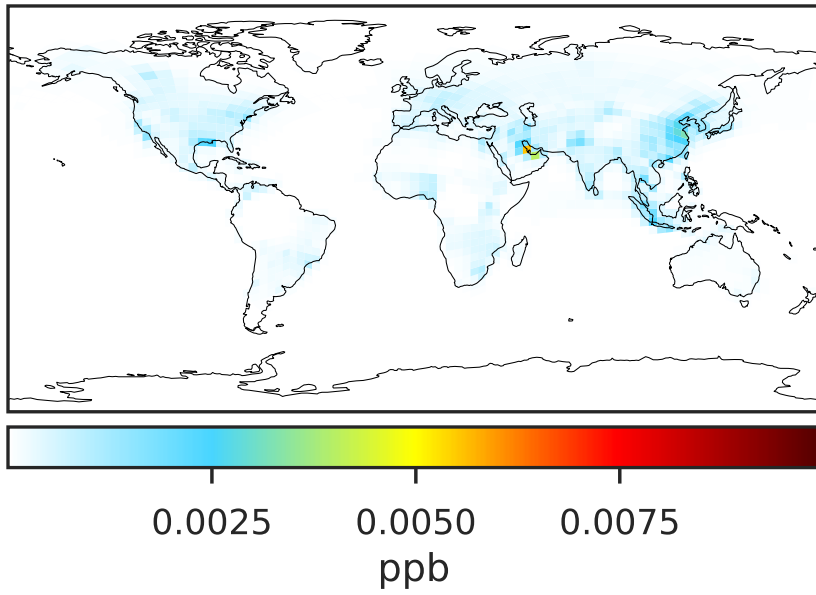


Ratio (1x1.25)
Dev/Ref, Fixed Range

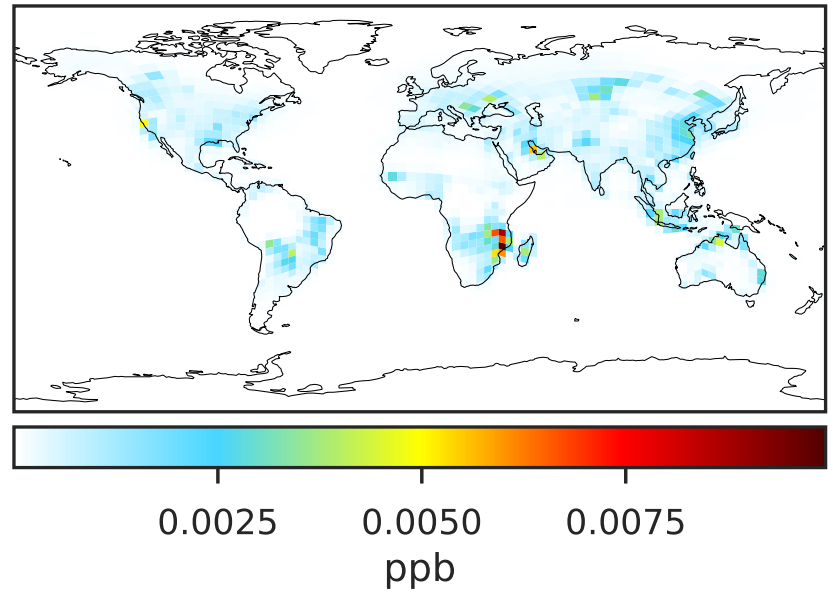


SpeciesConcVV_NPHEN (Oct2019)

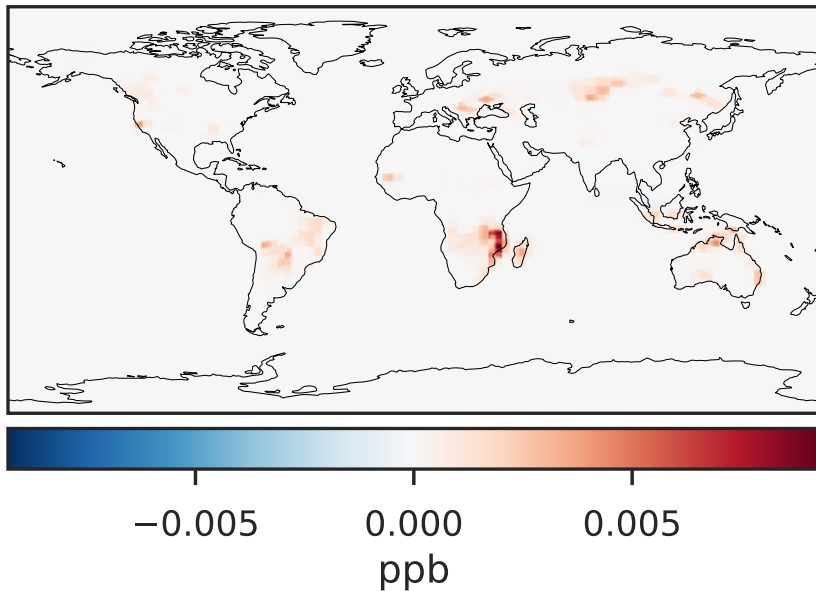
GCHP_14.0.0 (Ref)
c24



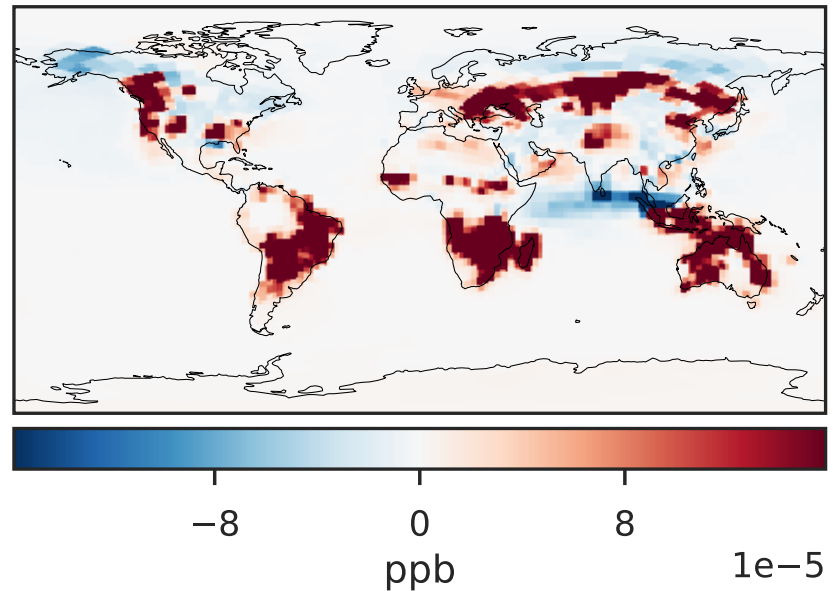
GCHP_14.2.0 (Dev)
c24



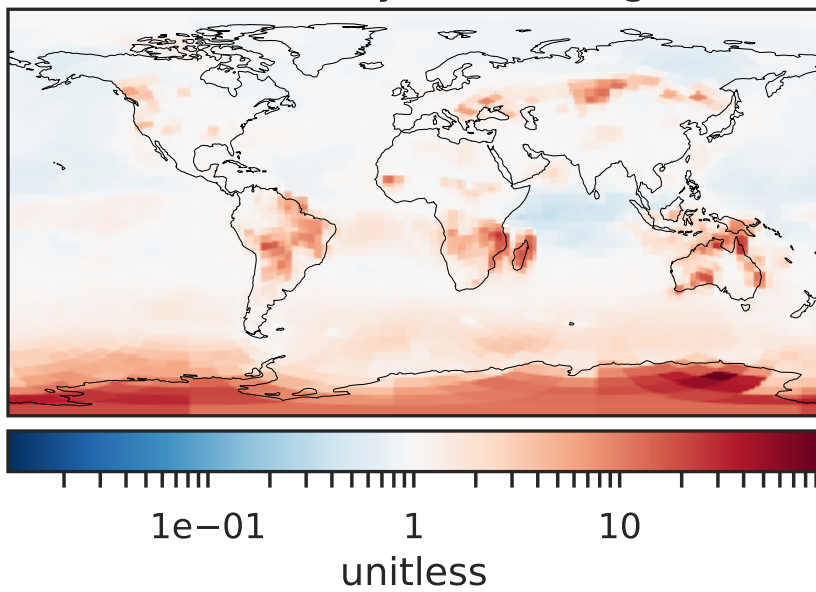
Difference (1x1.25)
Dev - Ref, Dynamic Range



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



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



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

