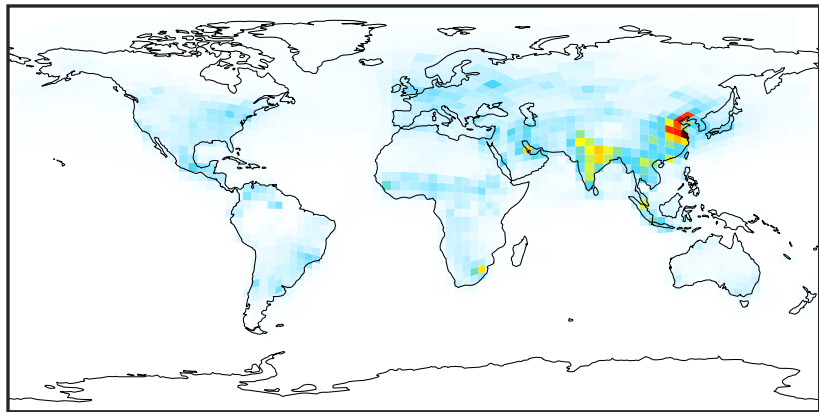


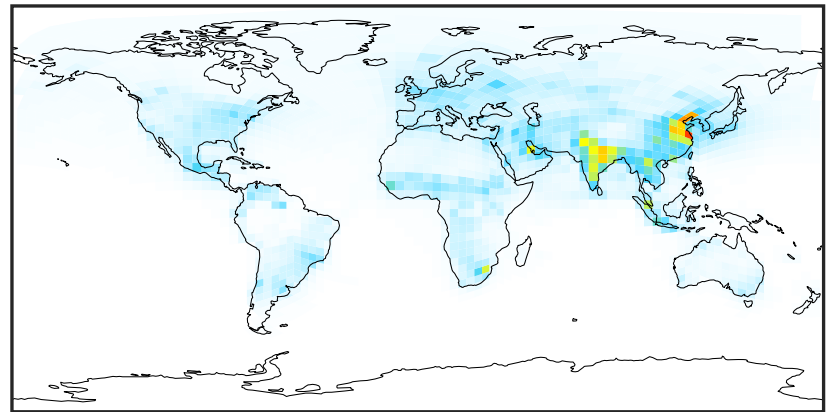
SpeciesConcVV_NOy (Apr2019)

GCHP_14.0.0 (Ref)
c24



0.01 5.11 10.23 15.34 20.47
ppb

GCHP_14.2.0 (Dev)
c24



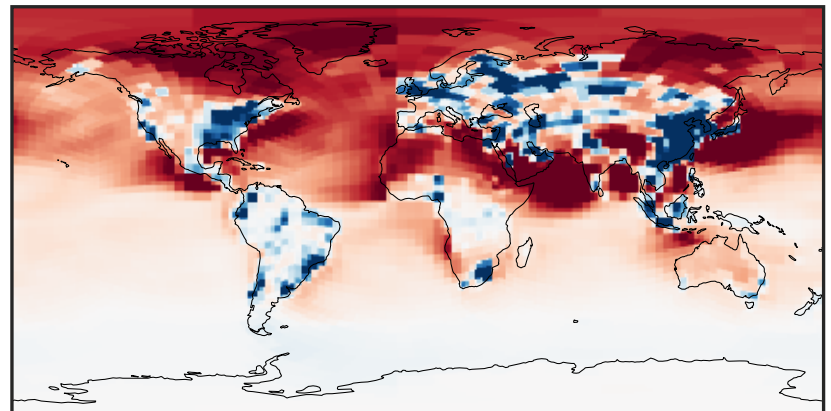
0.01 5.11 10.23 15.34 20.47
ppb

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



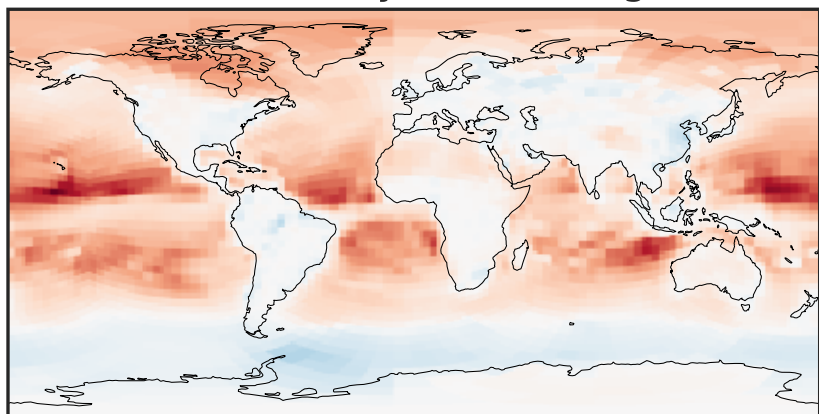
-6.33 -3.16 0.00 3.16 6.33
ppb

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



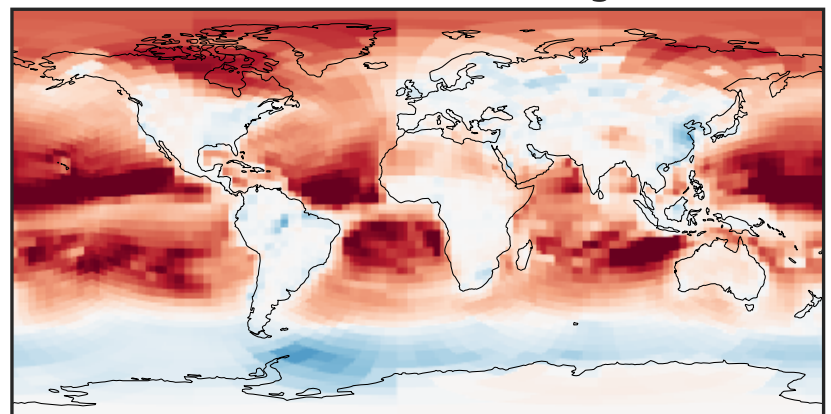
-0.1242 -0.0621 0.0000 0.0621 0.1242
ppb

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



0.265 0.632 1.000 2.389 3.778
unitless

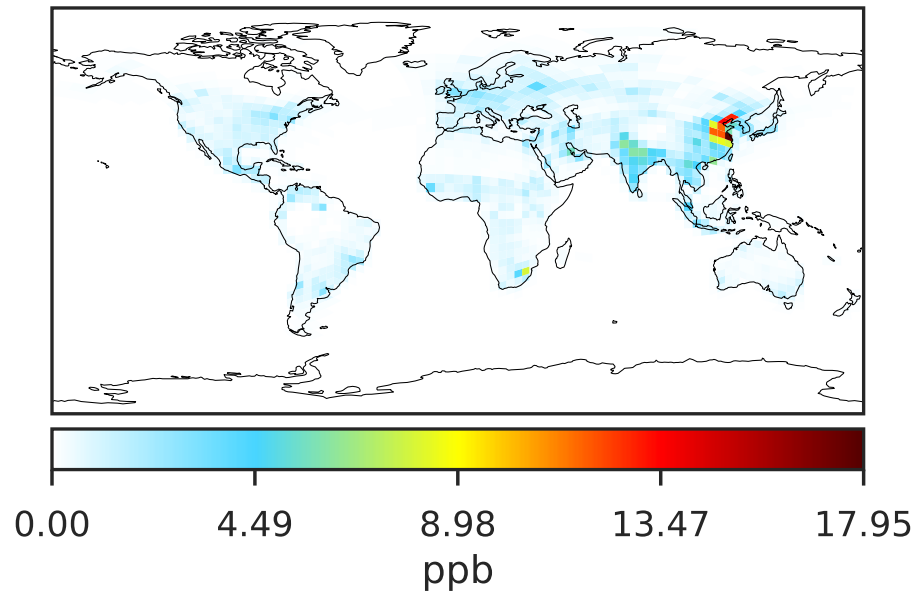
Ratio (1x1.25)
Dev/Ref, Fixed Range



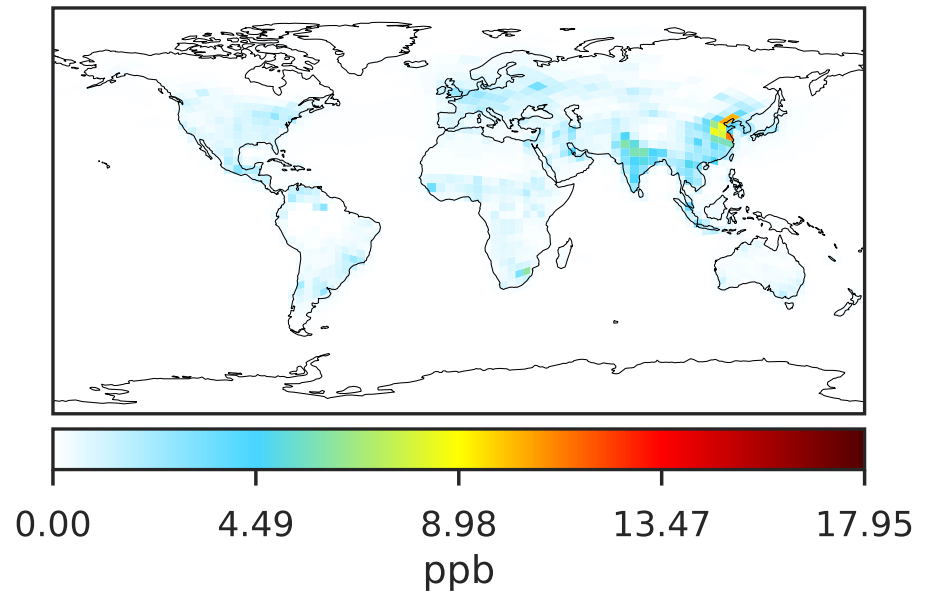
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_NOx (Apr2019)

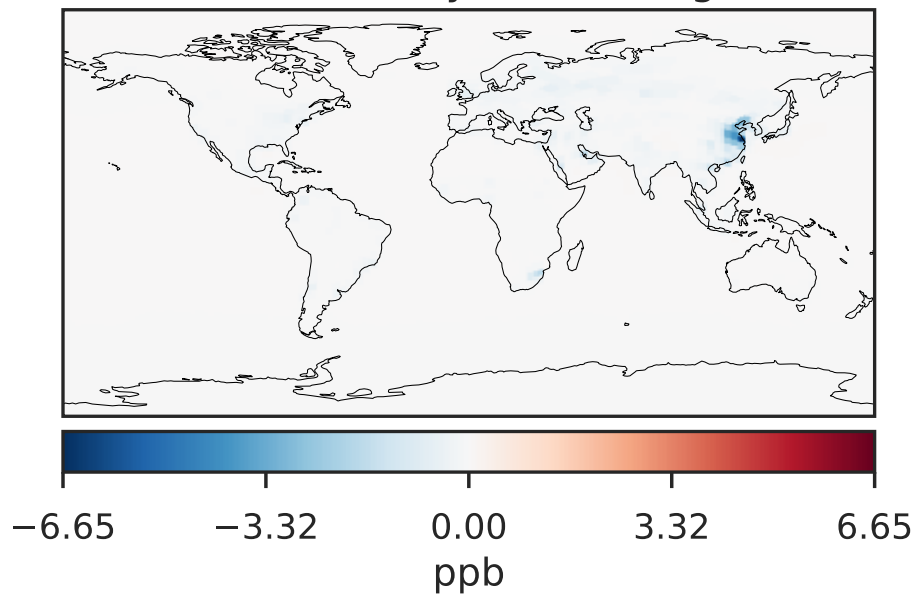
GCHP_14.0.0 (Ref)
c24



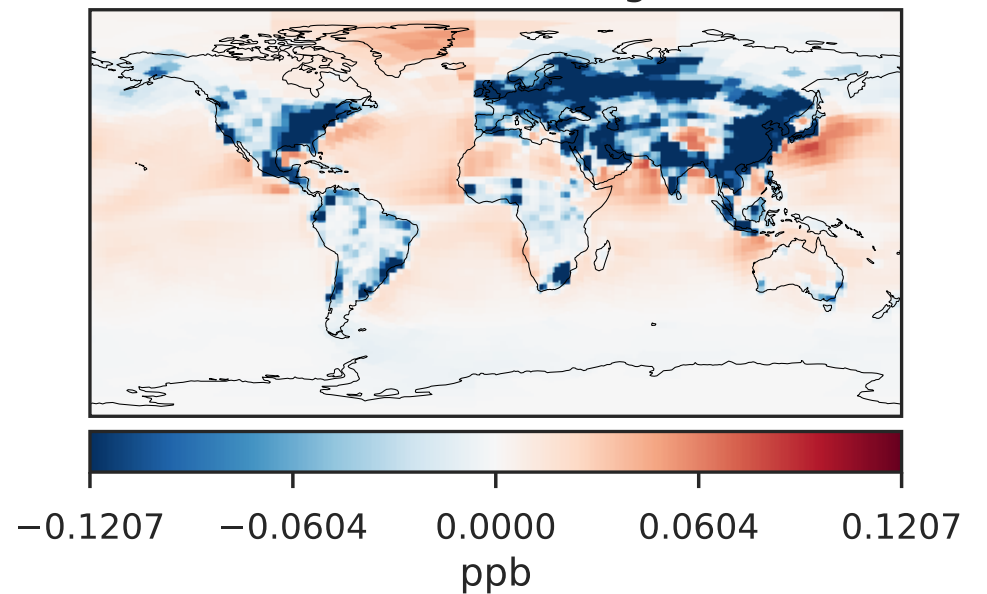
GCHP_14.2.0 (Dev)
c24



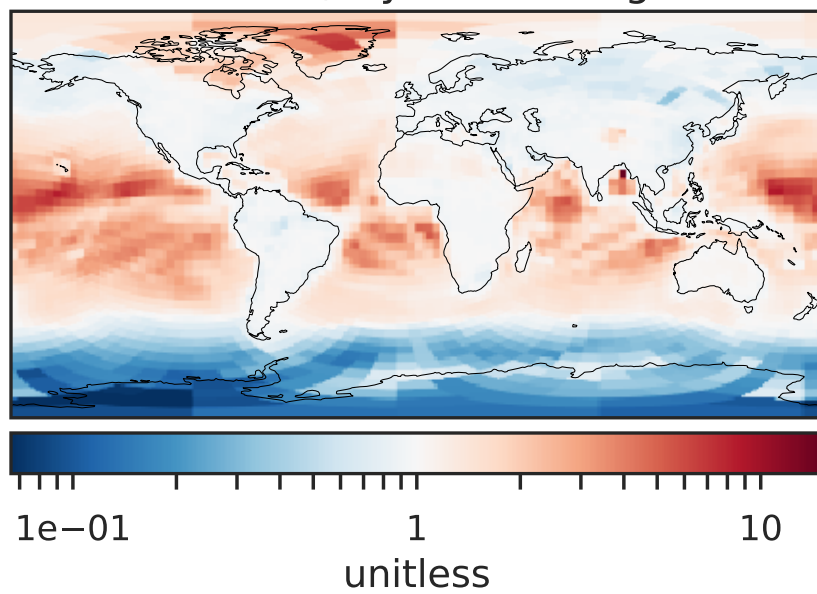
Difference (1x1.25)
Dev - Ref, Dynamic Range



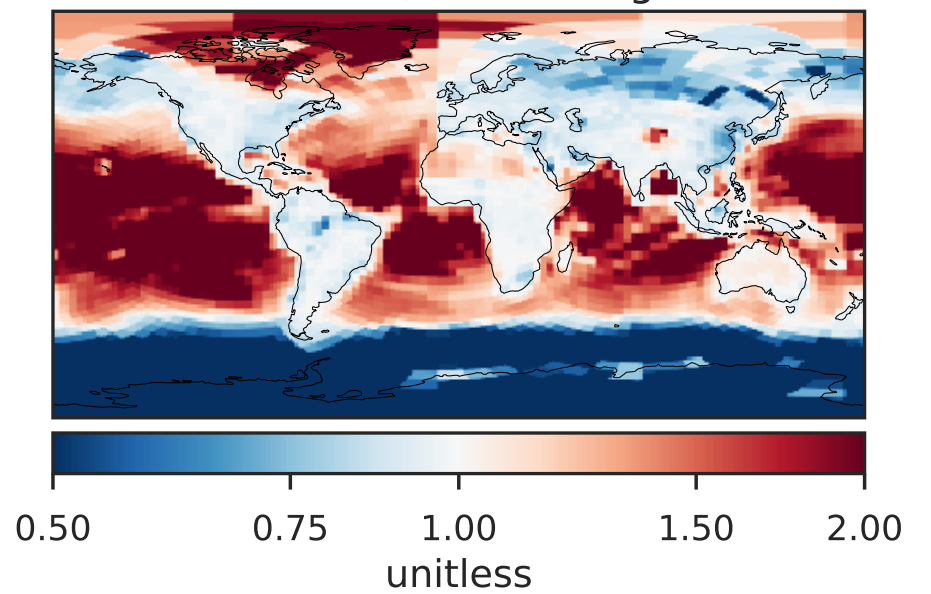
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

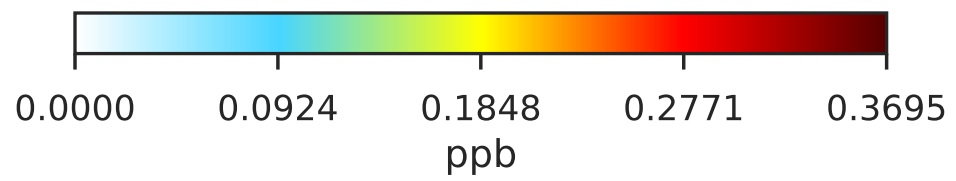
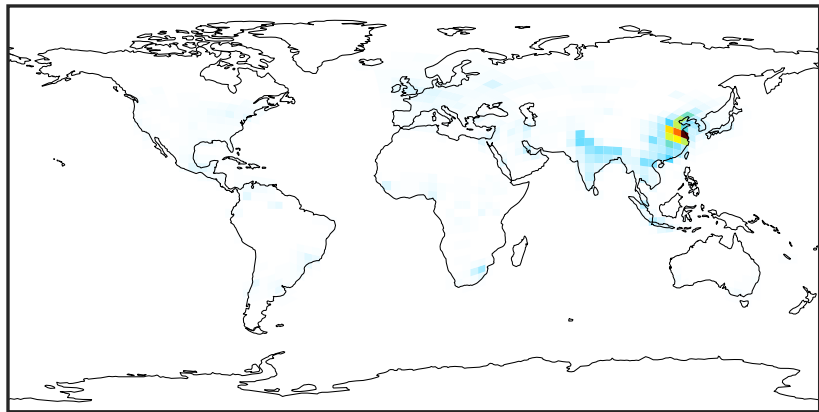


Ratio (1x1.25)
Dev/Ref, Fixed Range

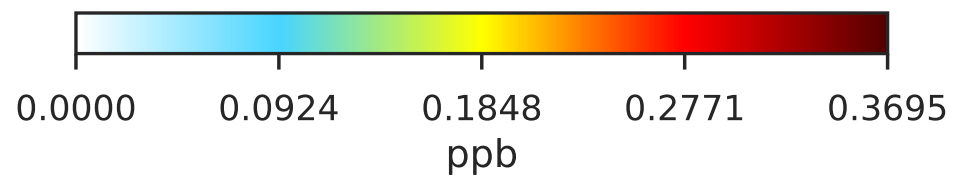
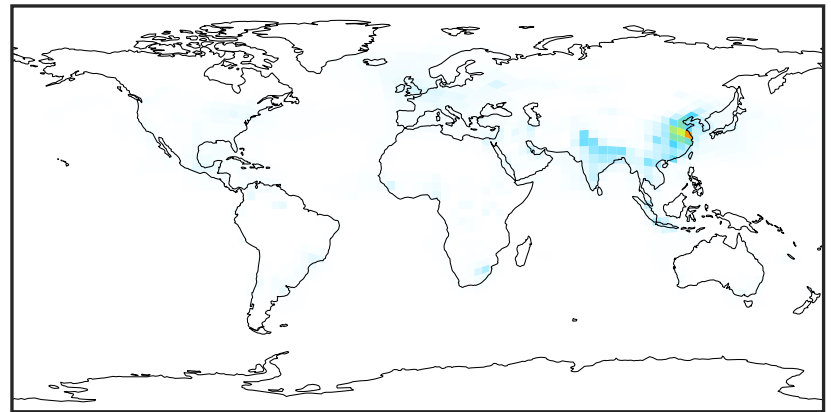


SpeciesConcVV_HNO2 (Apr2019)

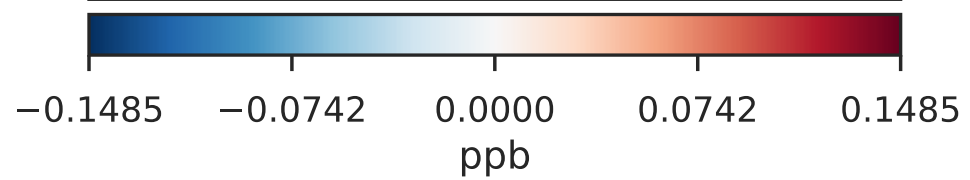
GCHP_14.0.0 (Ref)
c24



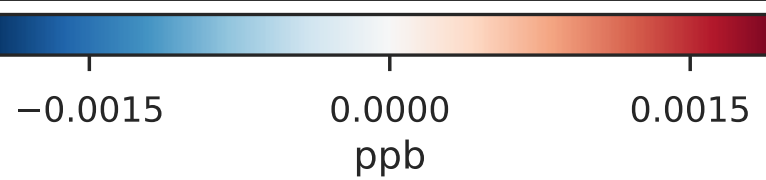
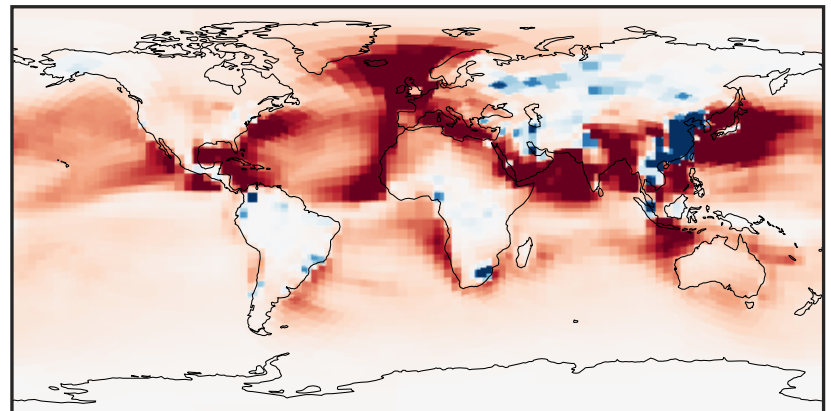
GCHP_14.2.0 (Dev)
c24



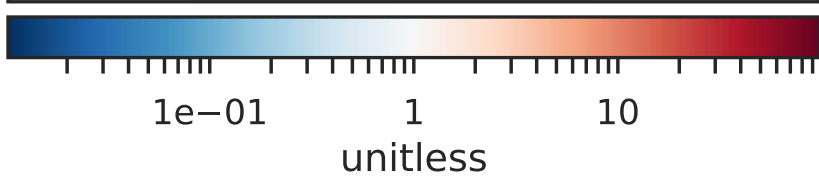
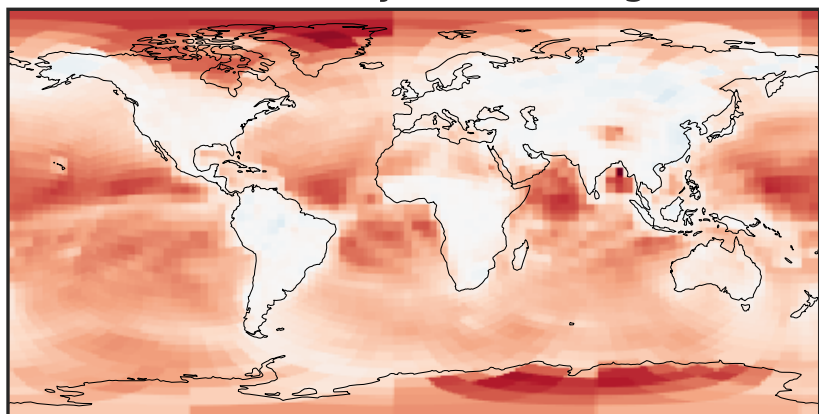
Difference (1x1.25)
Dev - Ref, Dynamic Range



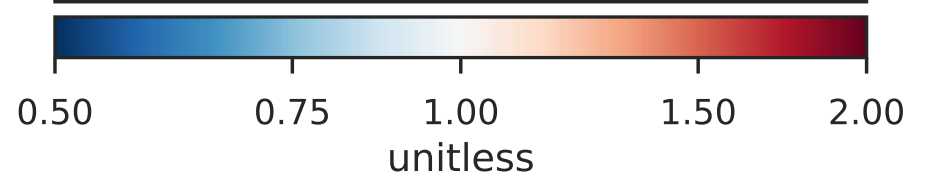
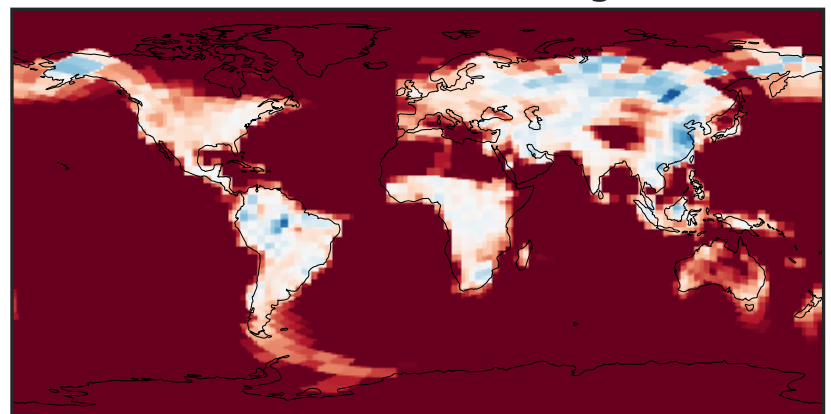
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

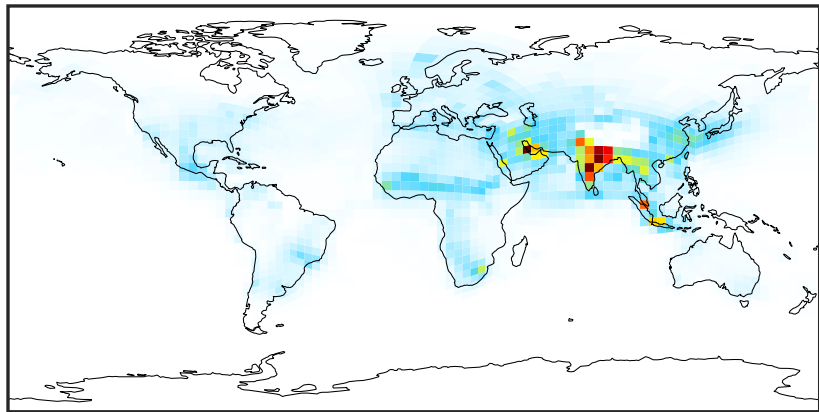


Ratio (1x1.25)
Dev/Ref, Fixed Range



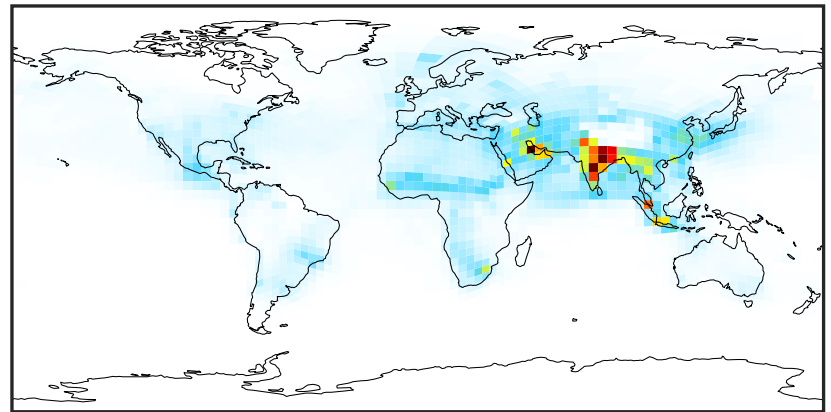
SpeciesConcVV_HNO3 (Apr2019)

GCHP_14.0.0 (Ref)
c24



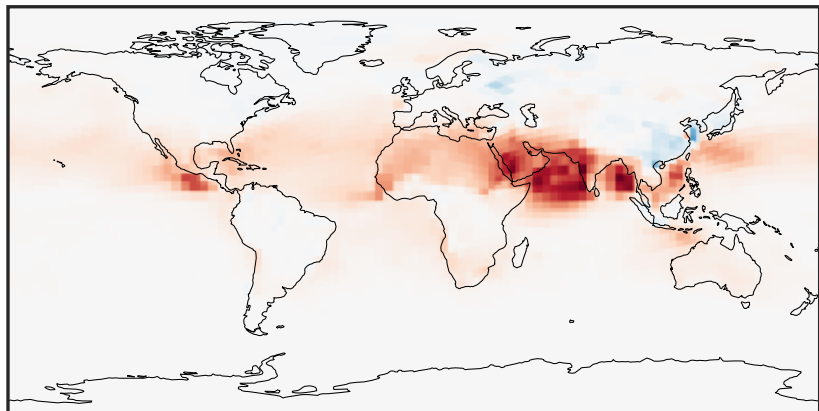
0.000 1.232 2.464 3.696 4.928
ppb

GCHP_14.2.0 (Dev)
c24



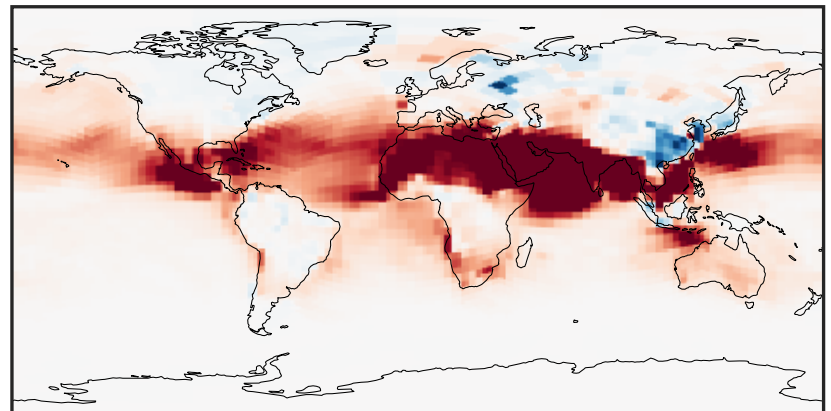
0.000 1.232 2.464 3.696 4.928
ppb

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



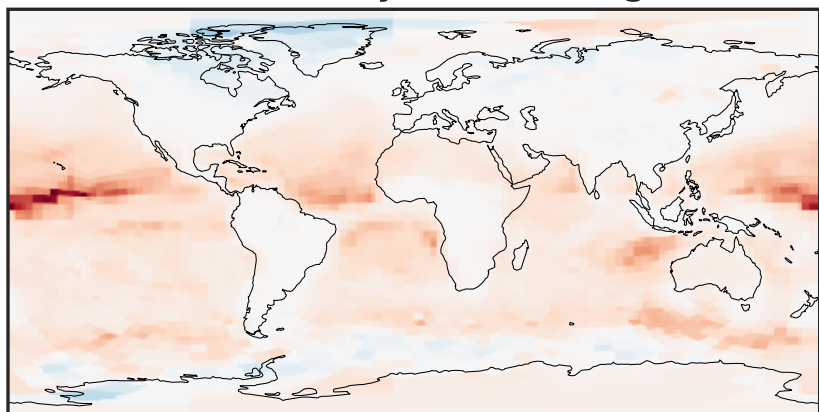
-0.2168 -0.1084 0.0000 0.1084 0.2168
ppb

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



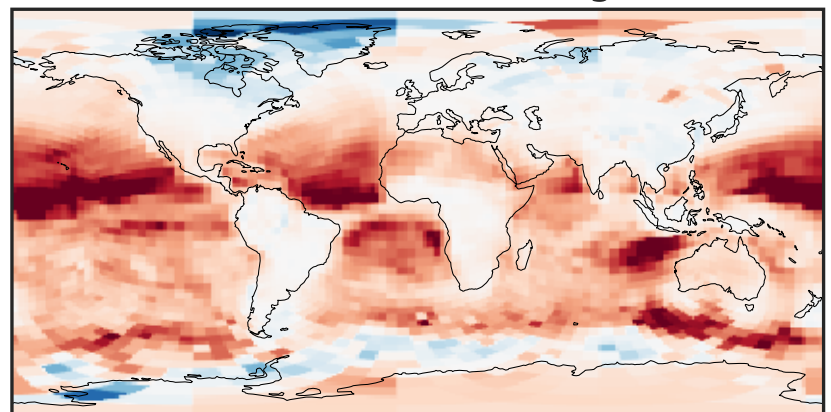
-0.0567 -0.0284 0.0000 0.0284 0.0567
ppb

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



0.121 0.560 1.000 4.641 8.282
unitless

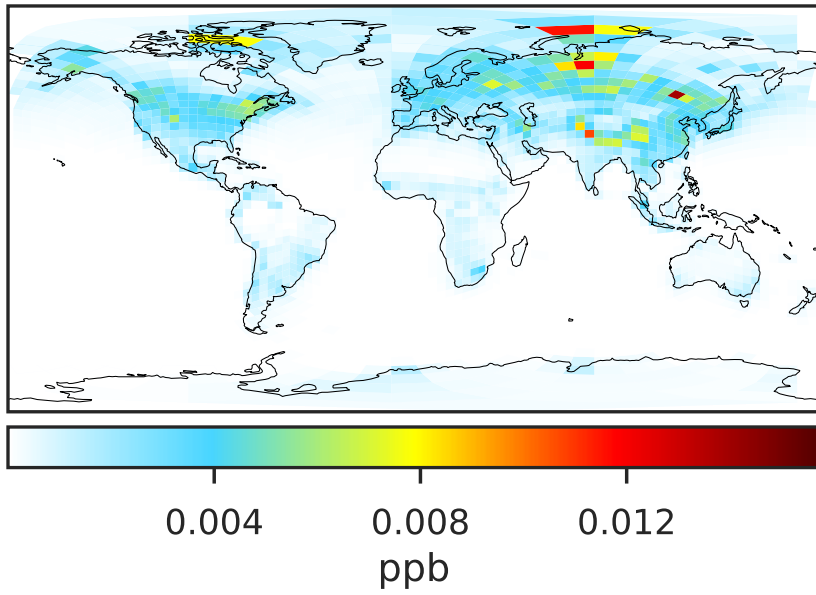
Ratio (1x1.25)
Dev/Ref, Fixed Range



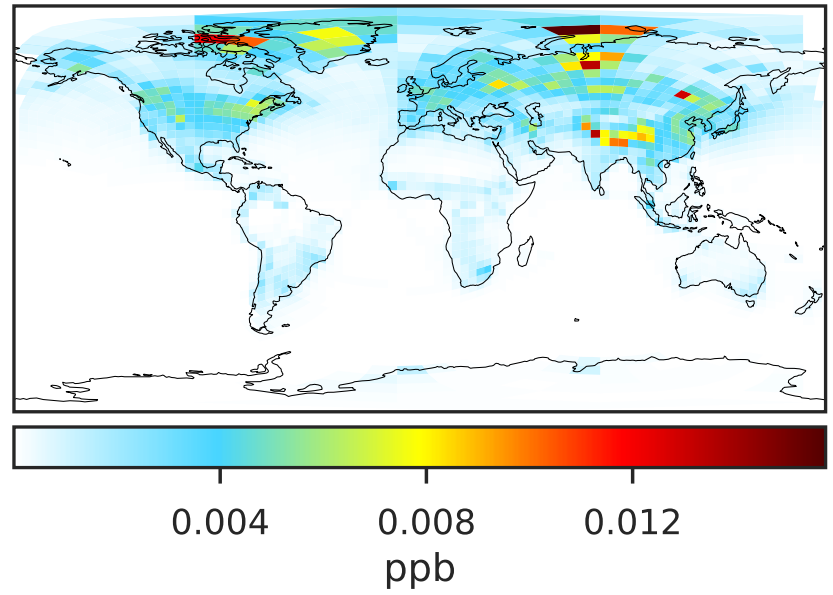
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_HNO4 (Apr2019)

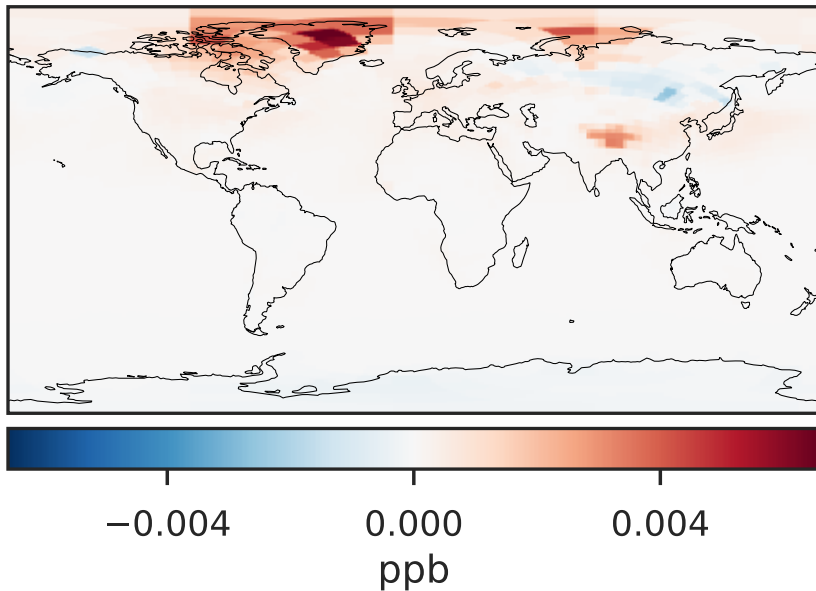
GCHP_14.0.0 (Ref)
c24



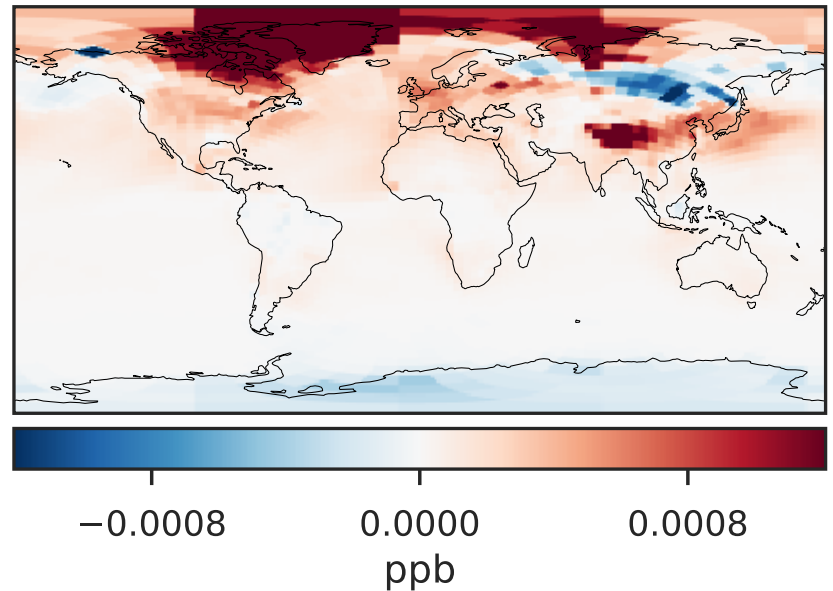
GCHP_14.2.0 (Dev)
c24



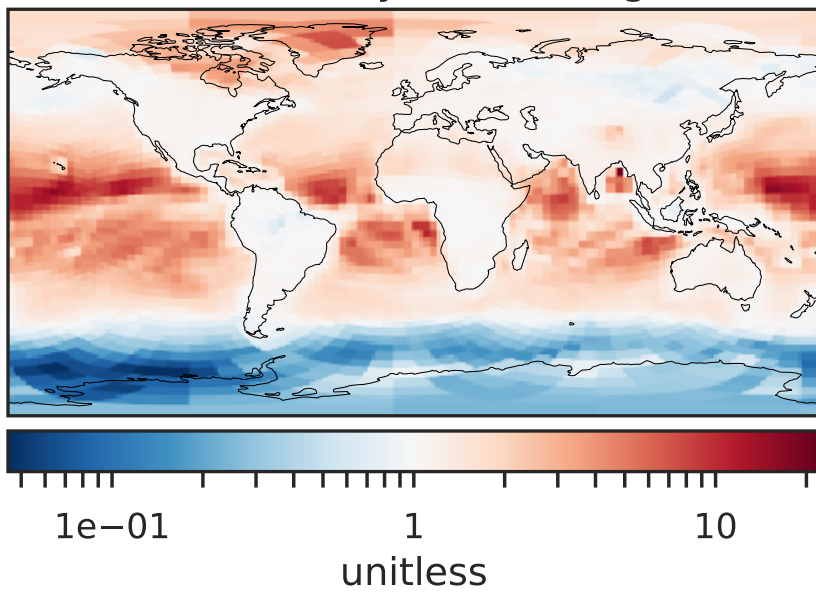
Difference (1x1.25)
Dev - Ref, Dynamic Range



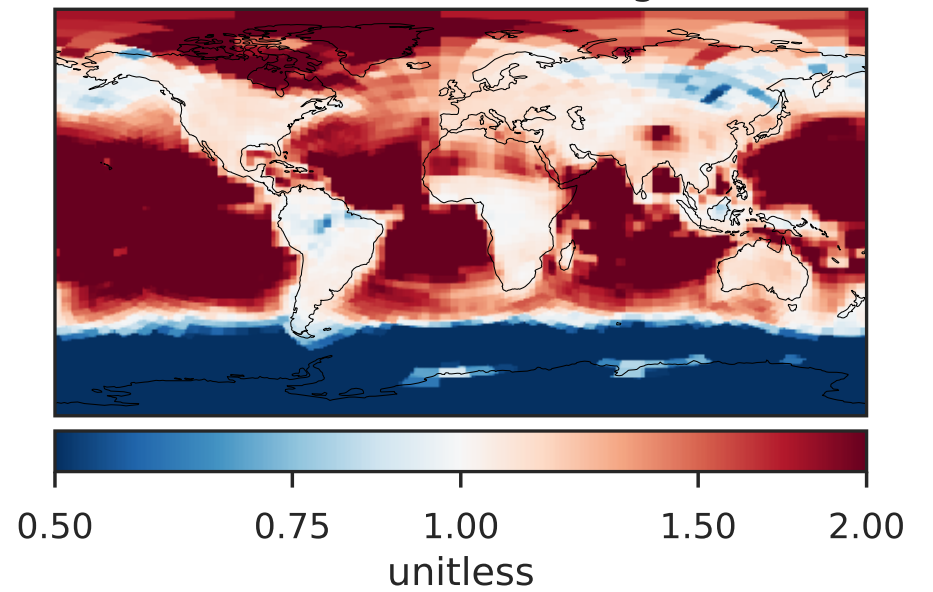
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

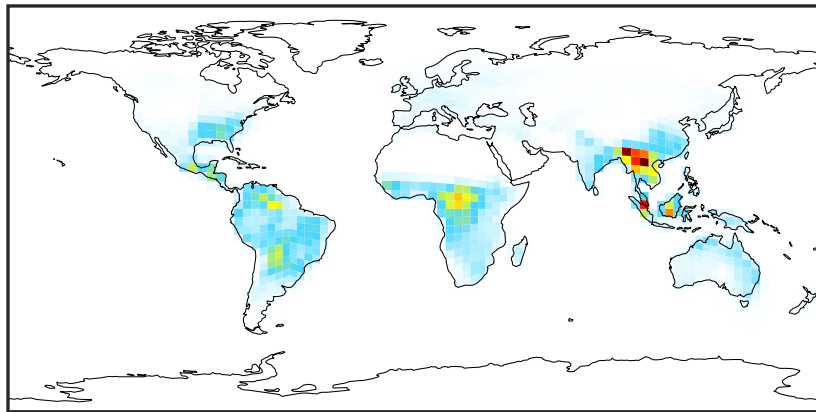


Ratio (1x1.25)
Dev/Ref, Fixed Range



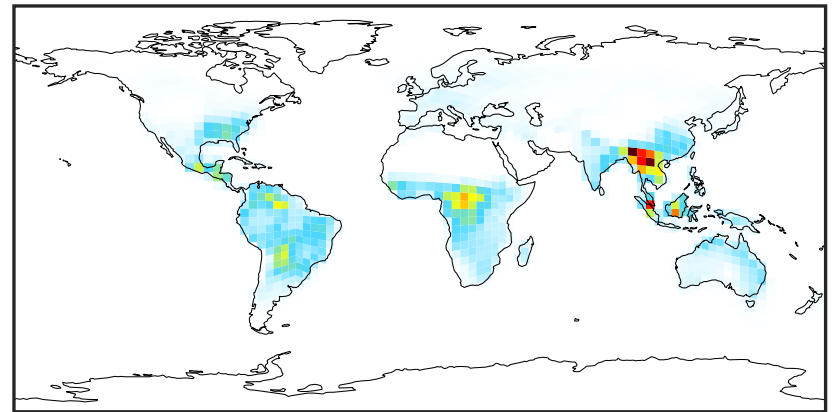
SpeciesConcVV_MPAN (Apr2019)

GCHP_14.0.0 (Ref)
c24



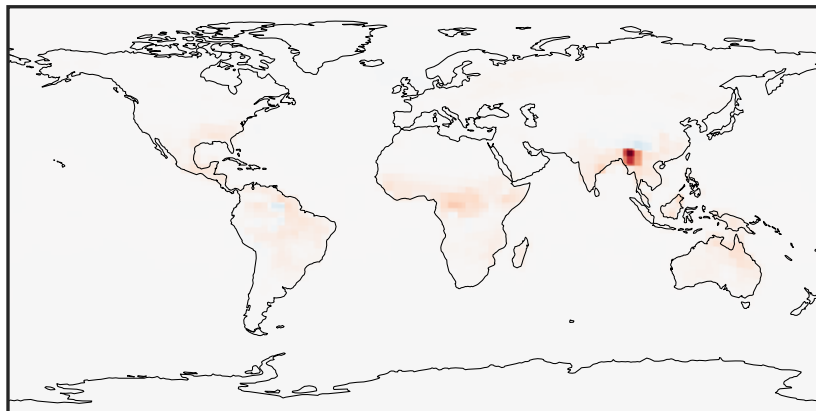
0.000 0.015 0.030 0.045
ppb

GCHP_14.2.0 (Dev)
c24



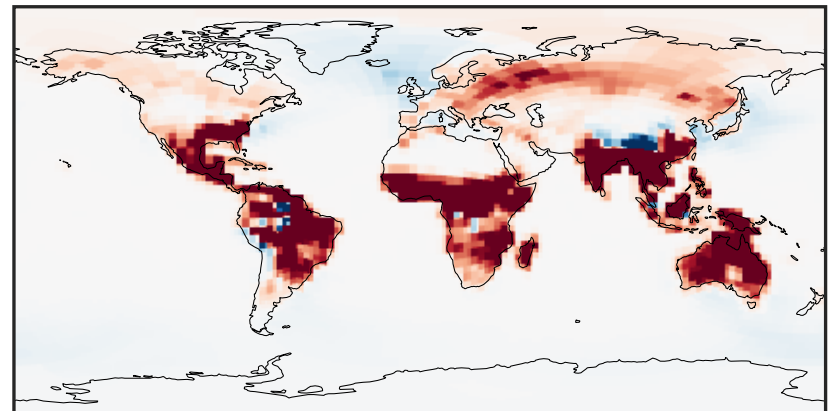
0.000 0.015 0.030 0.045
ppb

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



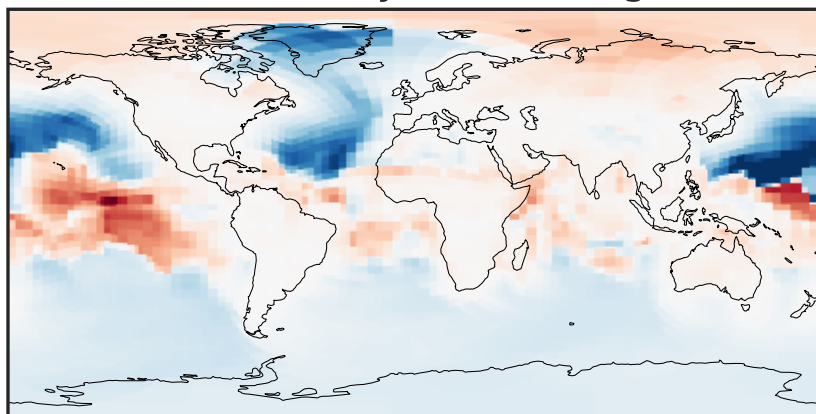
-0.0025 0.0000 0.0025
ppb

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



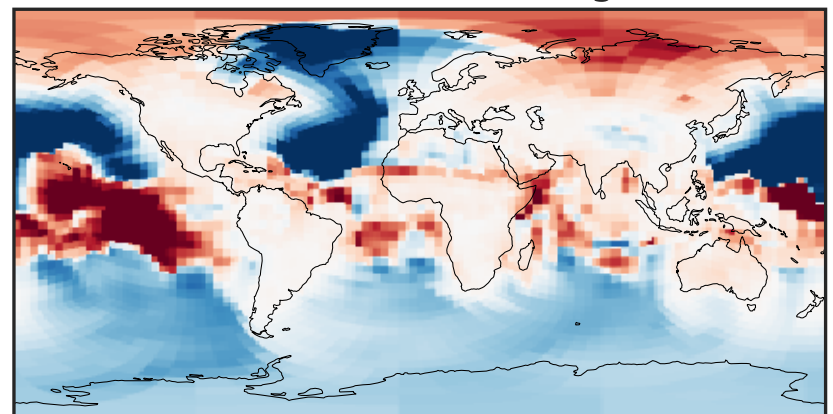
-8 0 8
ppb 1e-5

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



0.155 0.577 1.000 3.730 6.461
unitless

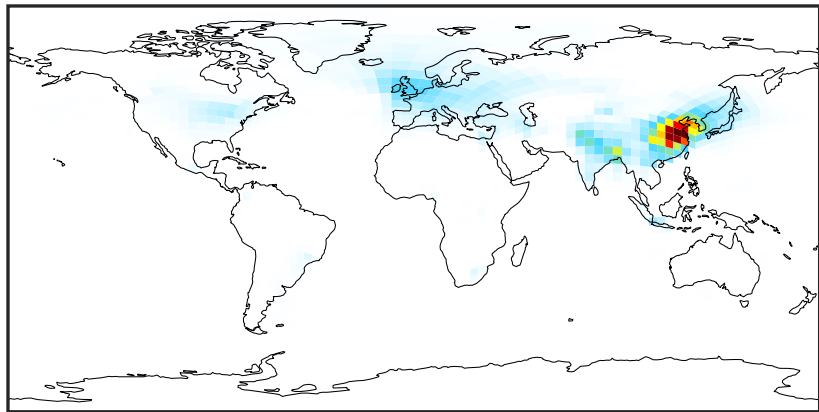
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

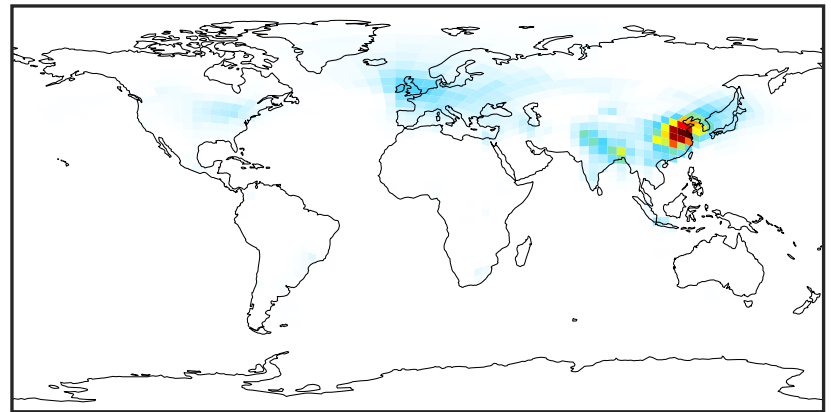
SpeciesConcVV_NIT (Apr2019)

GCHP_14.0.0 (Ref)
c24



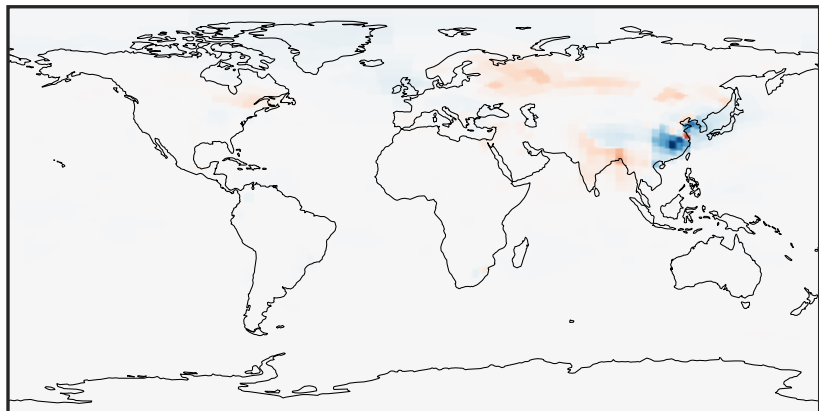
0.00 3.01 6.01 9.02 12.02
ppb

GCHP_14.2.0 (Dev)
c24



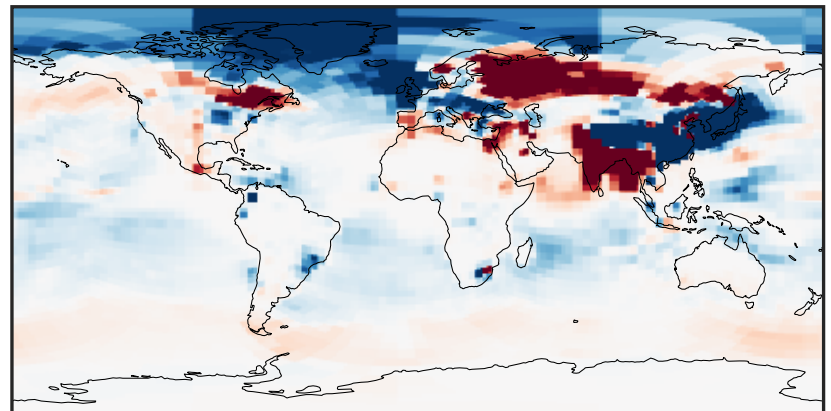
0.00 3.01 6.01 9.02 12.02
ppb

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



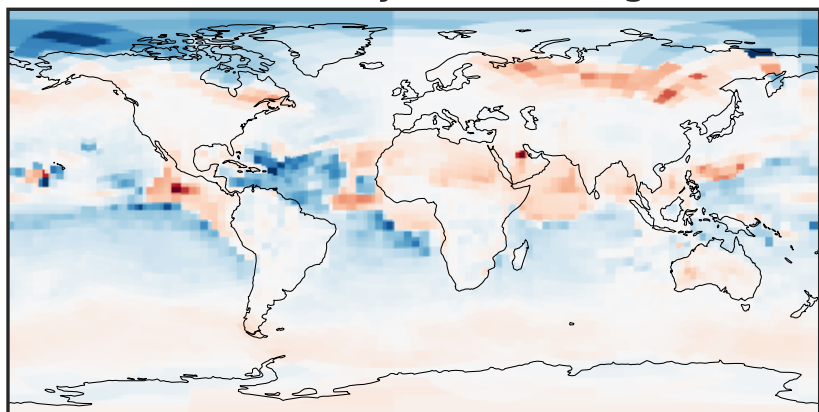
-0.6 -0.3 0.0 0.3 0.6
ppb

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



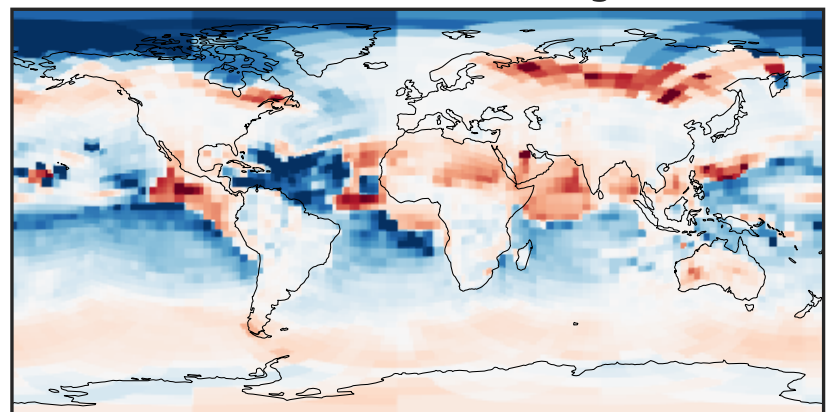
-0.015 0.000 0.015
ppb

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



0.246 0.623 1.000 2.534 4.068
unitless

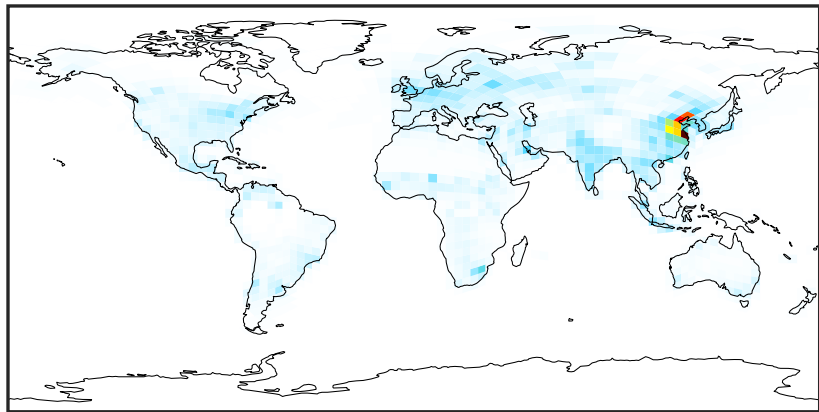
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

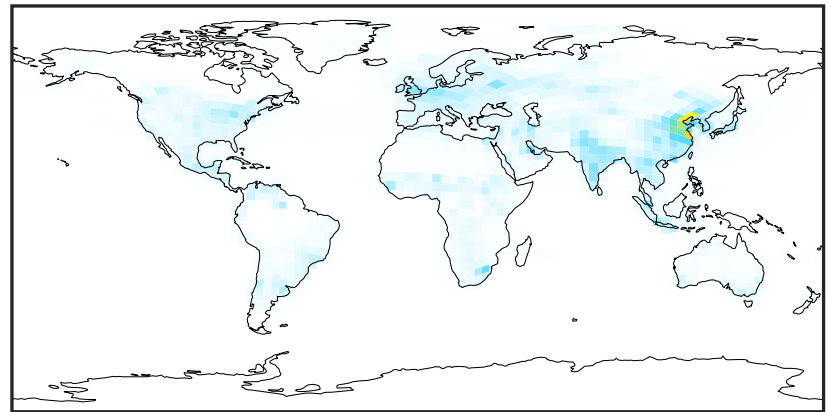
SpeciesConcVV_NO (Apr2019)

GCHP_14.0.0 (Ref)
c24



0.000 0.474 0.948 1.423 1.897
ppb

GCHP_14.2.0 (Dev)
c24



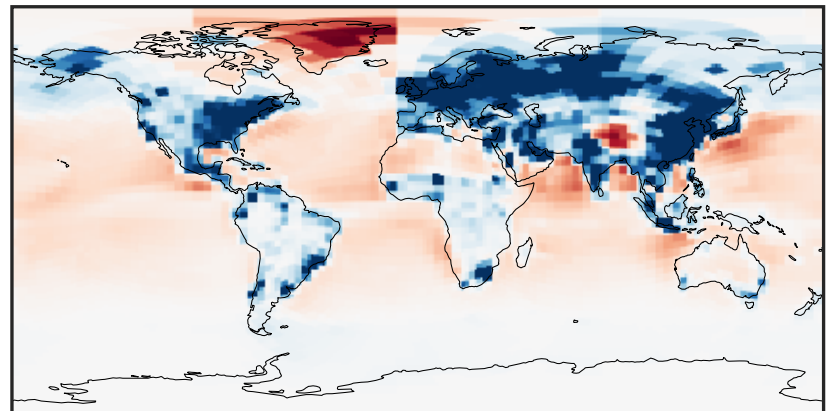
0.000 0.474 0.948 1.423 1.897
ppb

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



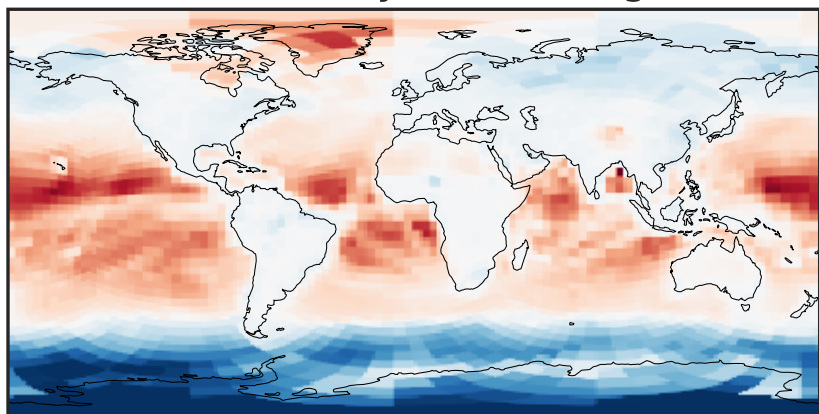
-0.871 -0.435 0.000 0.435 0.871
ppb

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



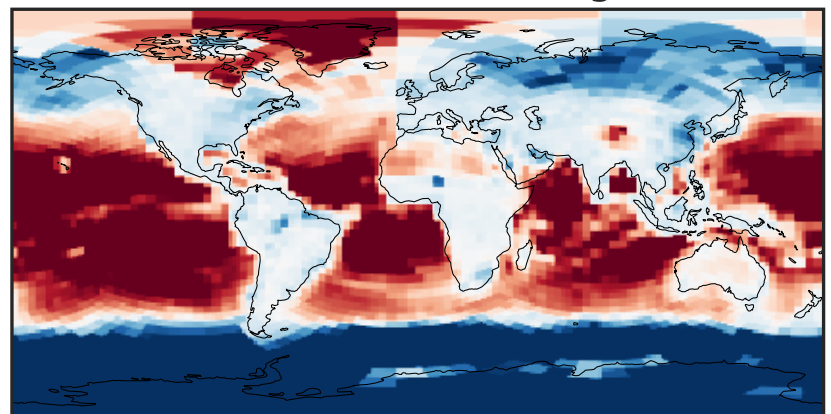
-0.008 0.000 0.008
ppb

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



1e-01 1 10
unitless

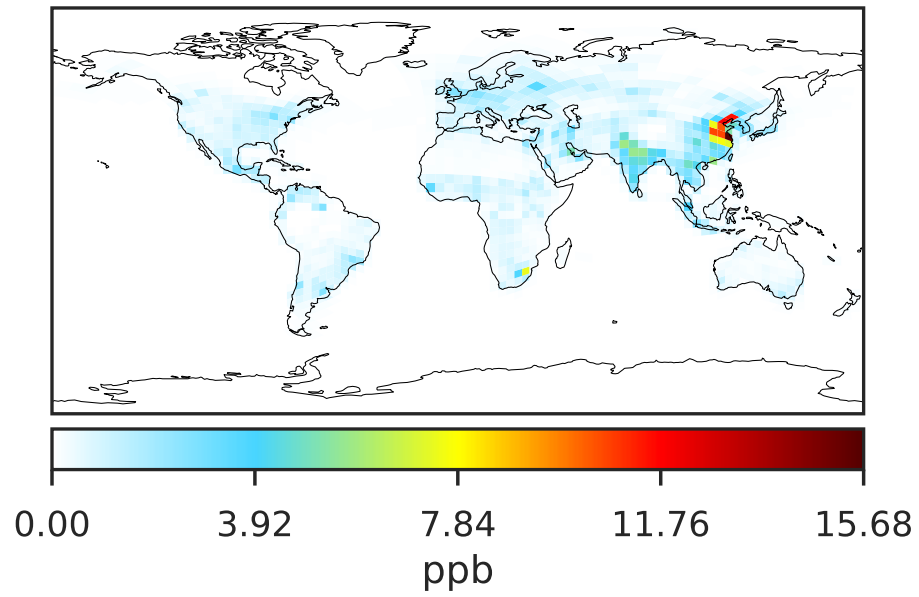
Ratio (1x1.25)
Dev/Ref, Fixed Range



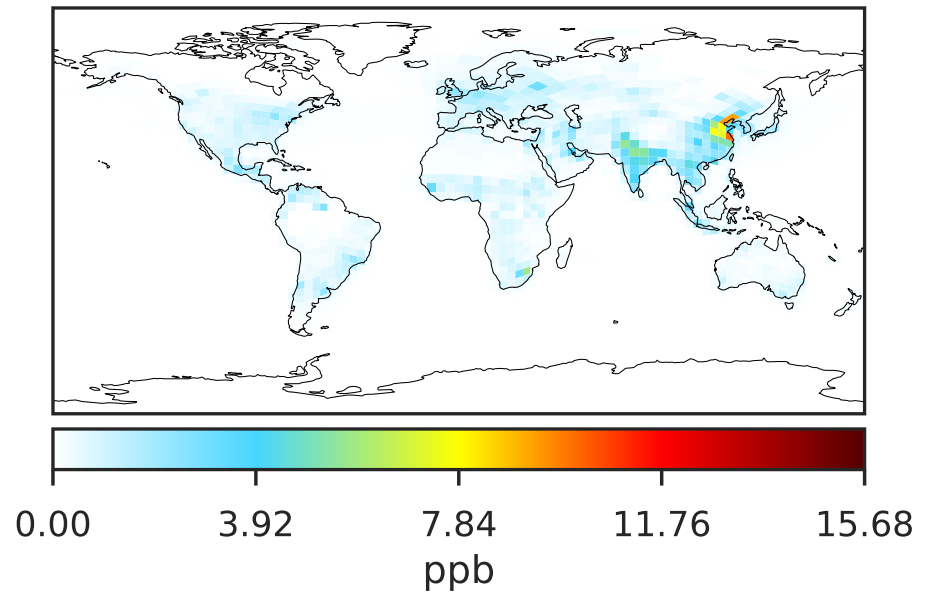
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVW_NO2 (Apr2019)

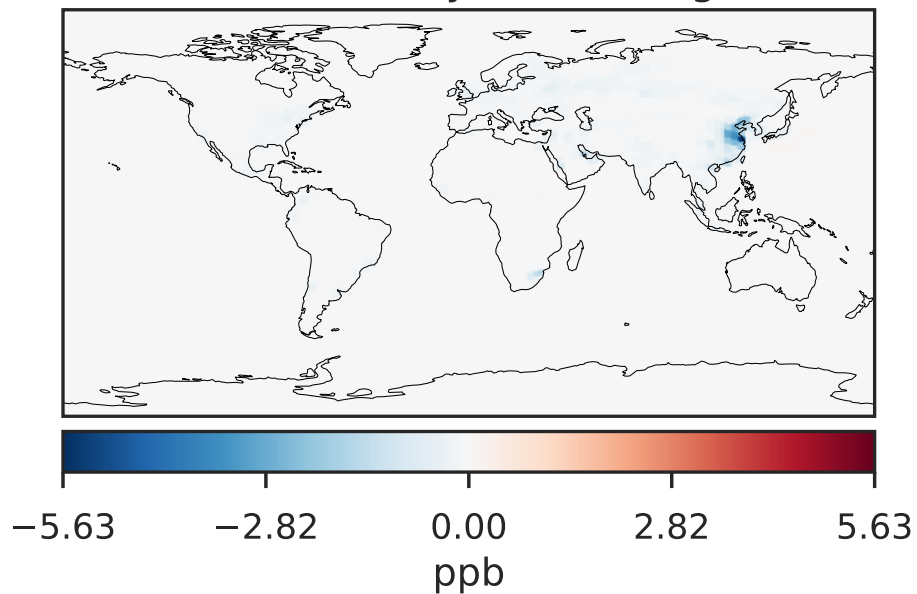
GCHP_14.0.0 (Ref)
c24



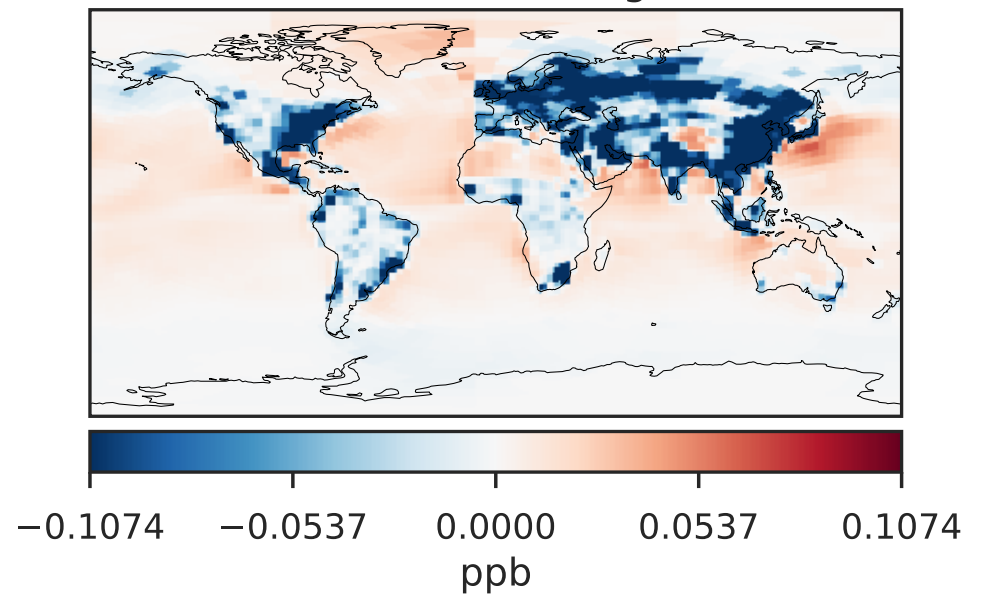
GCHP_14.2.0 (Dev)
c24



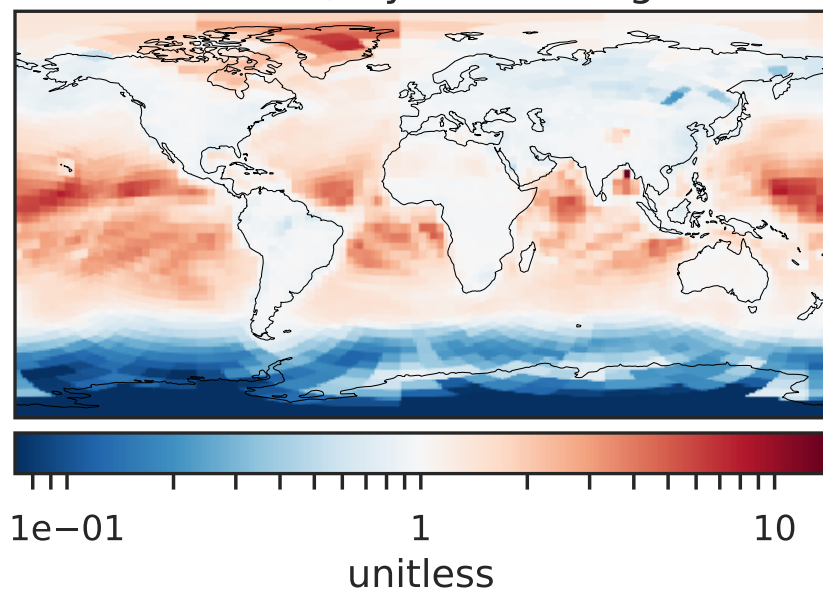
Difference (1x1.25)
Dev - Ref, Dynamic Range



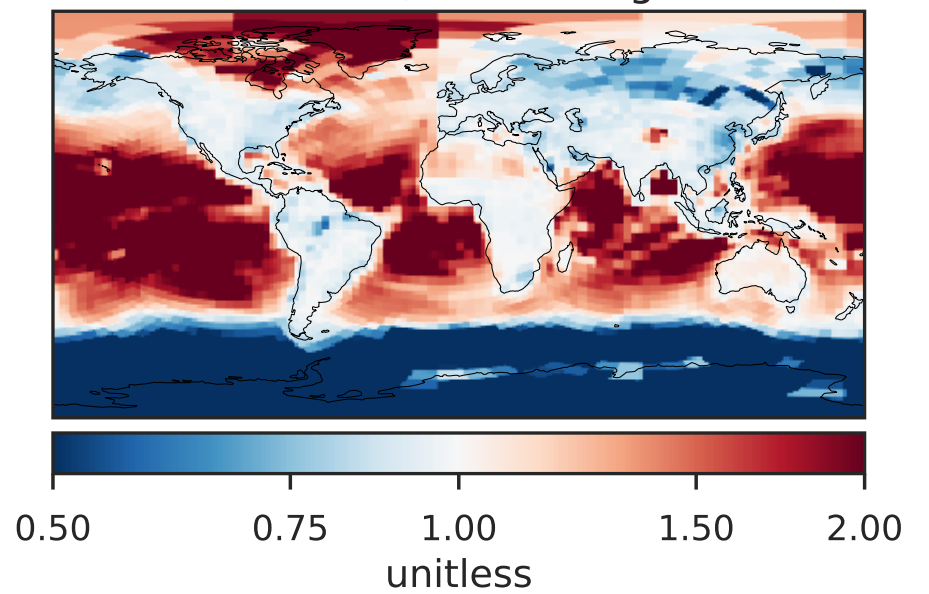
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

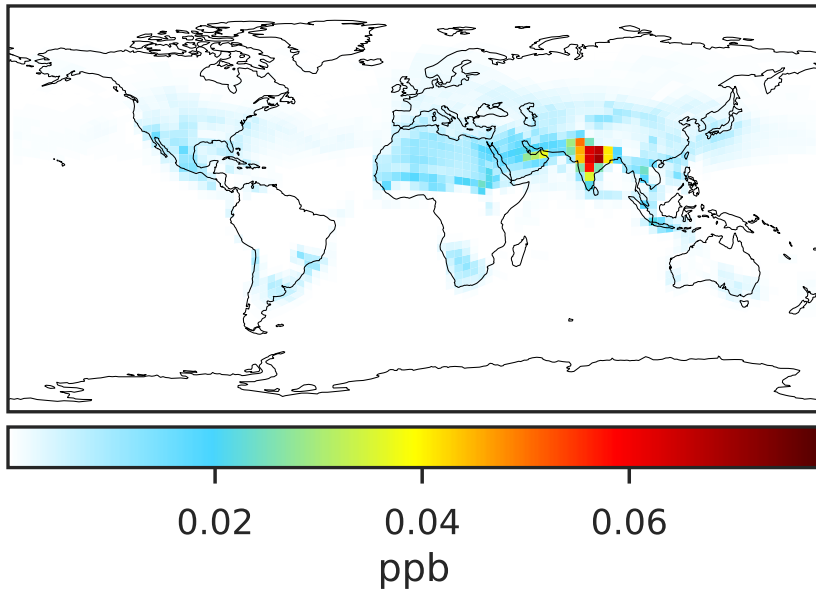


Ratio (1x1.25)
Dev/Ref, Fixed Range

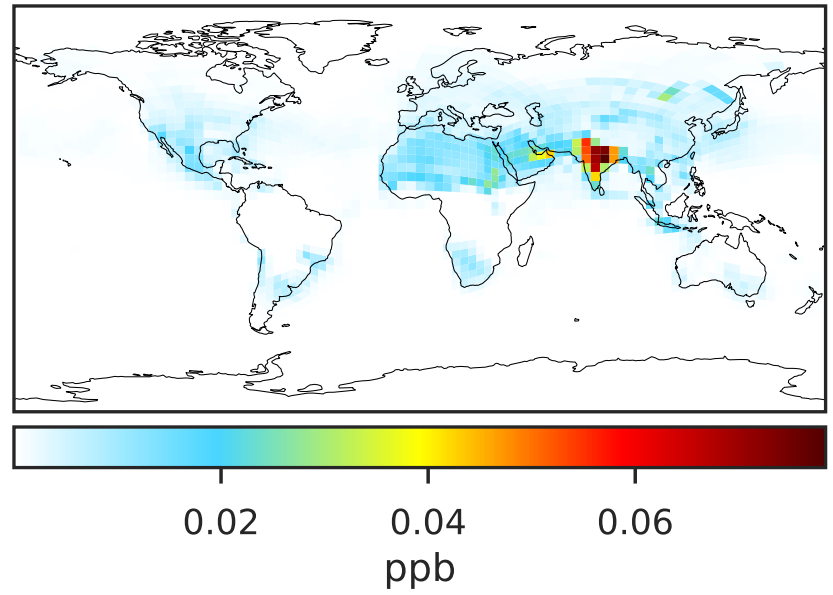


SpeciesConcVW_NO3 (Apr2019)

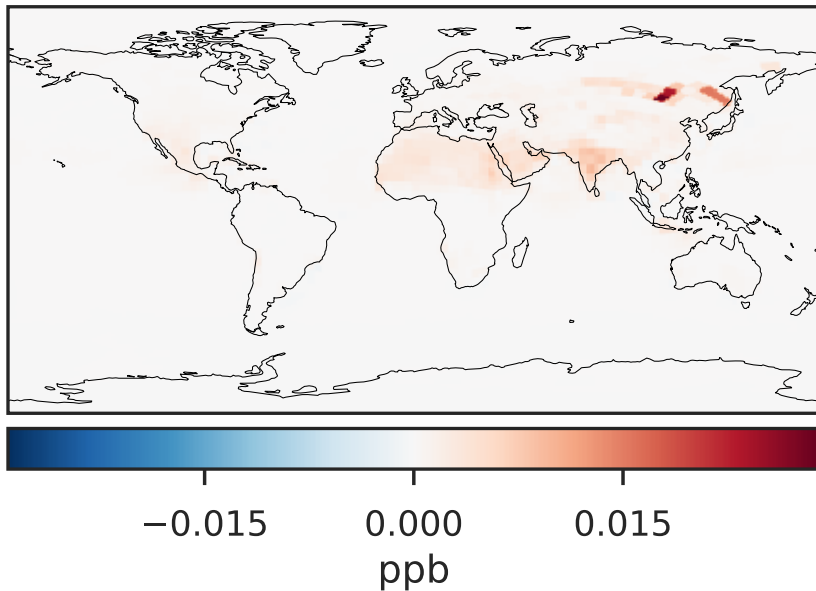
GCHP_14.0.0 (Ref)
c24



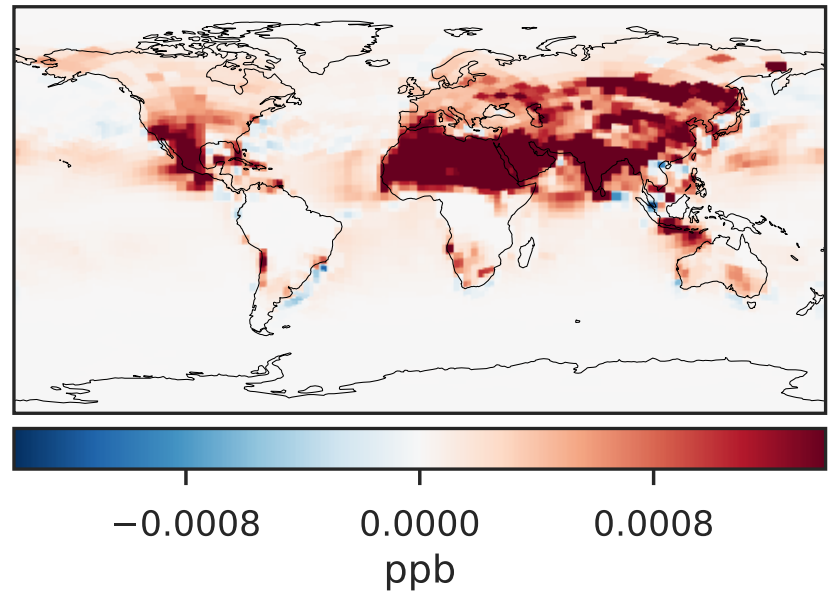
GCHP_14.2.0 (Dev)
c24



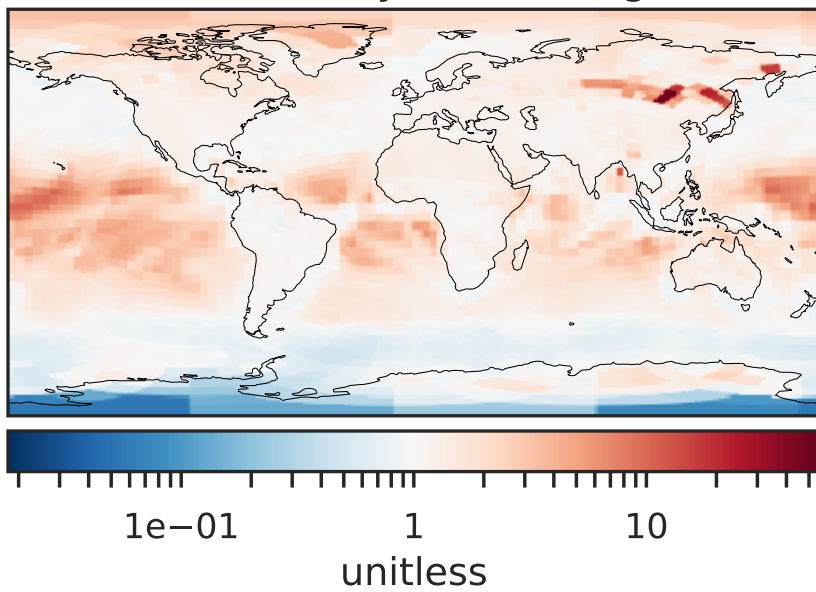
Difference (1x1.25)
Dev - Ref, Dynamic Range



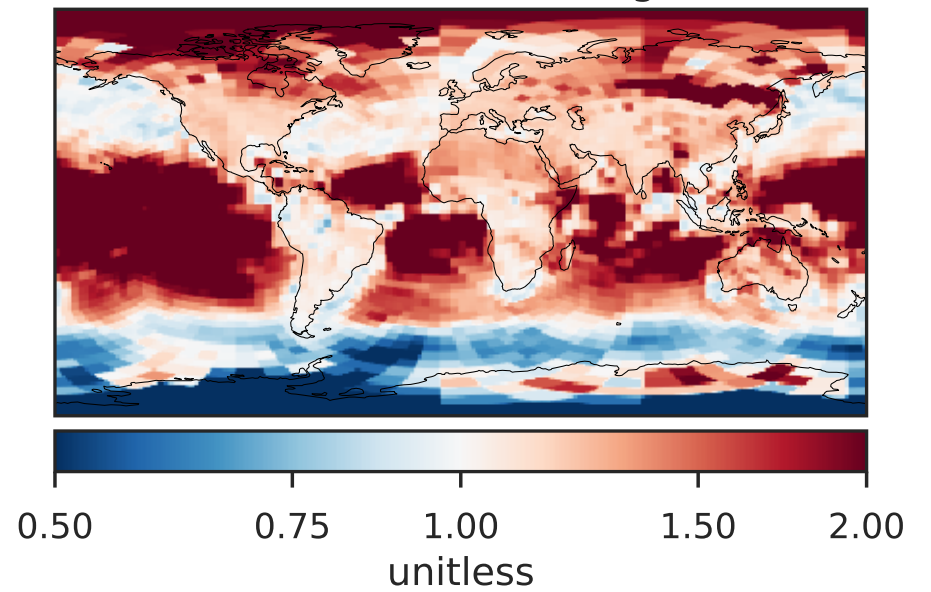
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

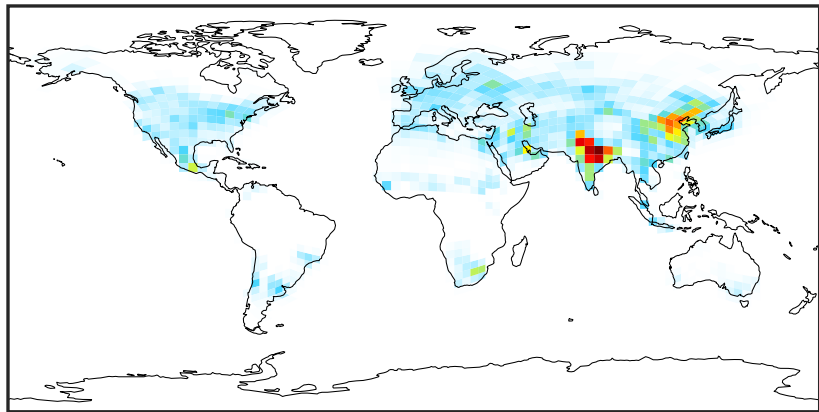


Ratio (1x1.25)
Dev/Ref, Fixed Range



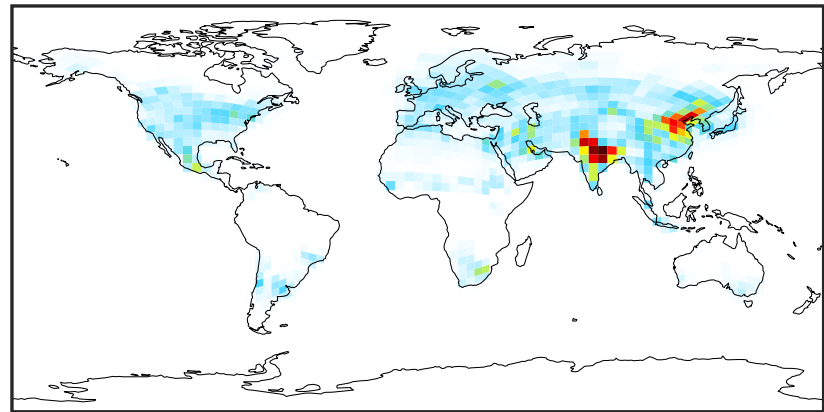
SpeciesConcVV_N2O5 (Apr2019)

GCHP_14.0.0 (Ref)
c24



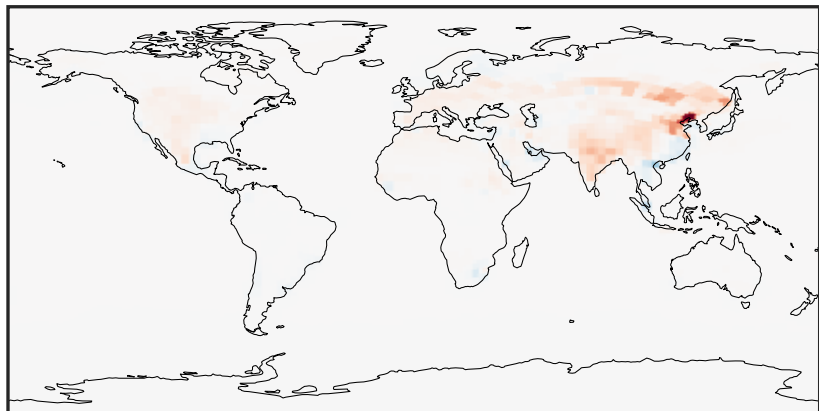
0.0000 0.0654 0.1308 0.1962 0.2616
ppb

GCHP_14.2.0 (Dev)
c24



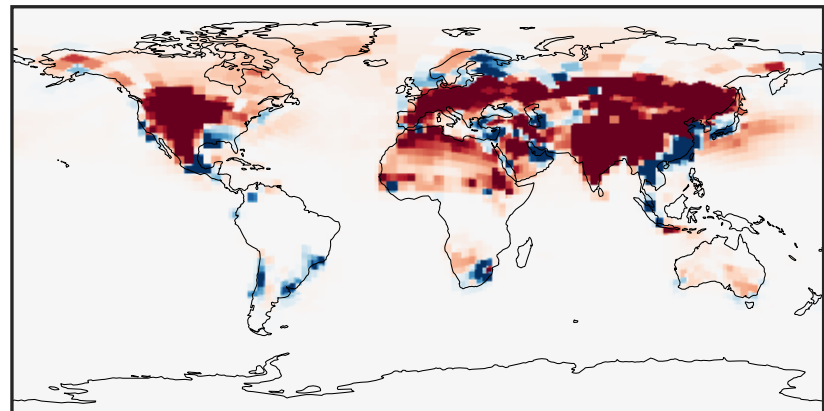
0.0000 0.0654 0.1308 0.1962 0.2616
ppb

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



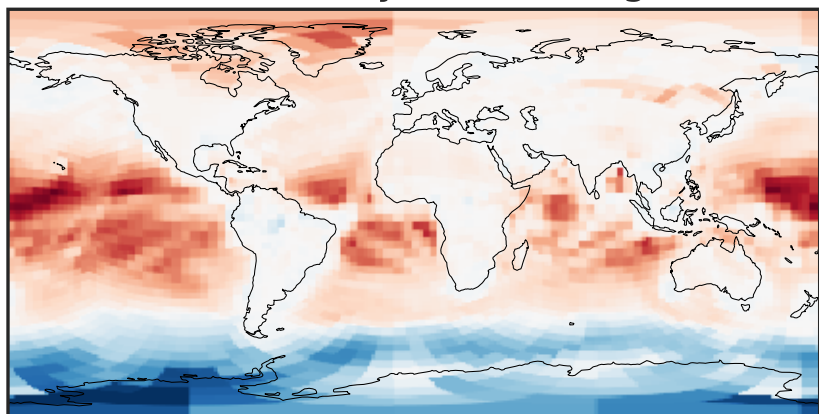
-0.0598 -0.0299 0.0000 0.0299 0.0598
ppb

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



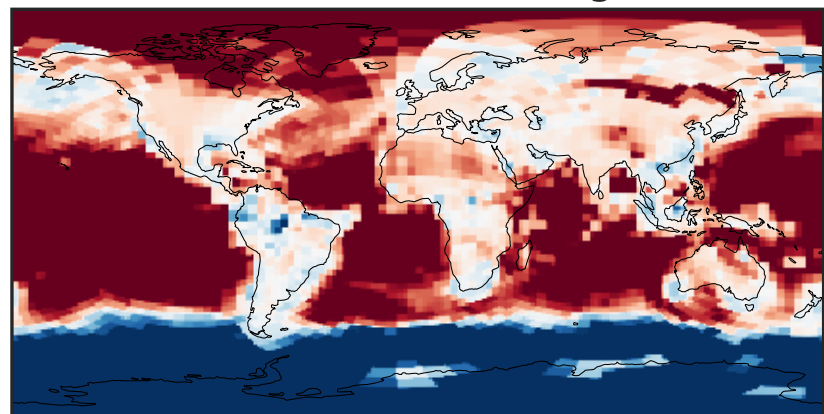
-0.001 0.000 0.001
ppb

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



1e-01 1 10
unitless

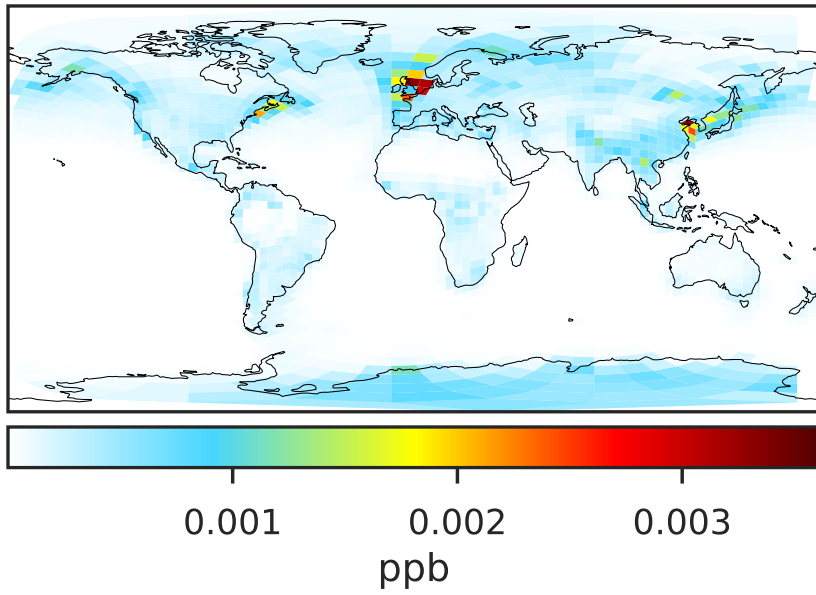
Ratio (1x1.25)
Dev/Ref, Fixed Range



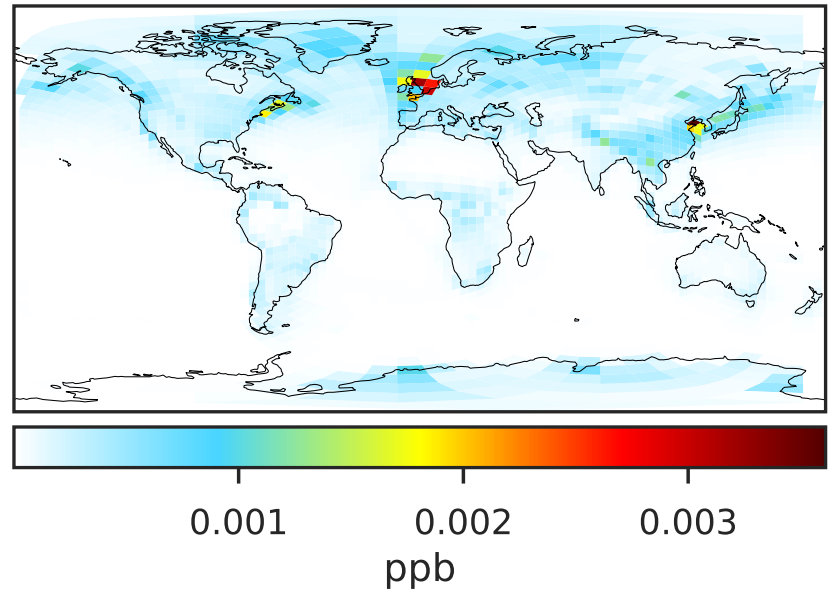
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_MPN (Apr2019)

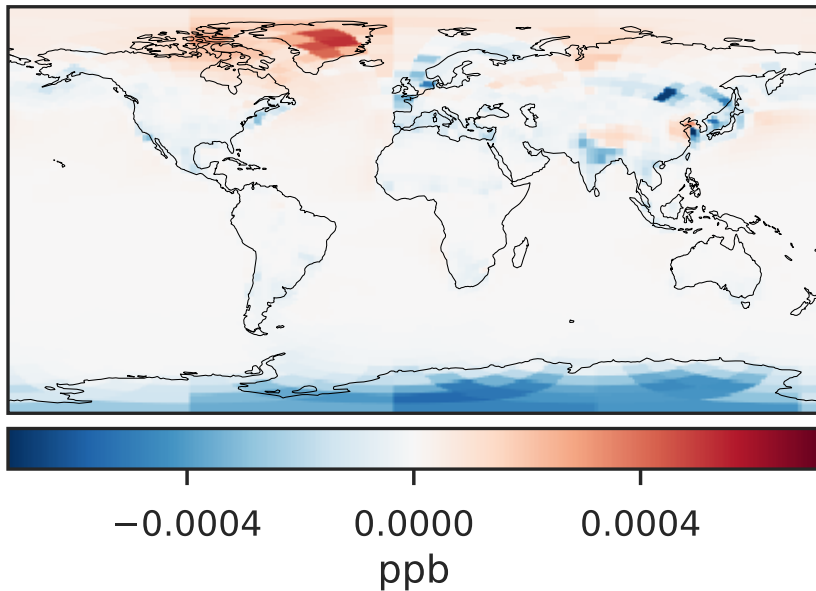
GCHP_14.0.0 (Ref)
c24



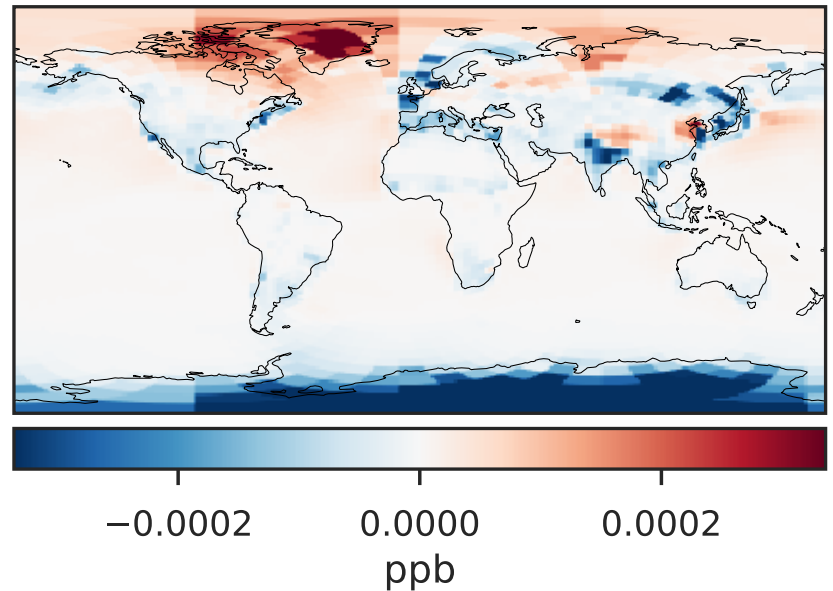
GCHP_14.2.0 (Dev)
c24



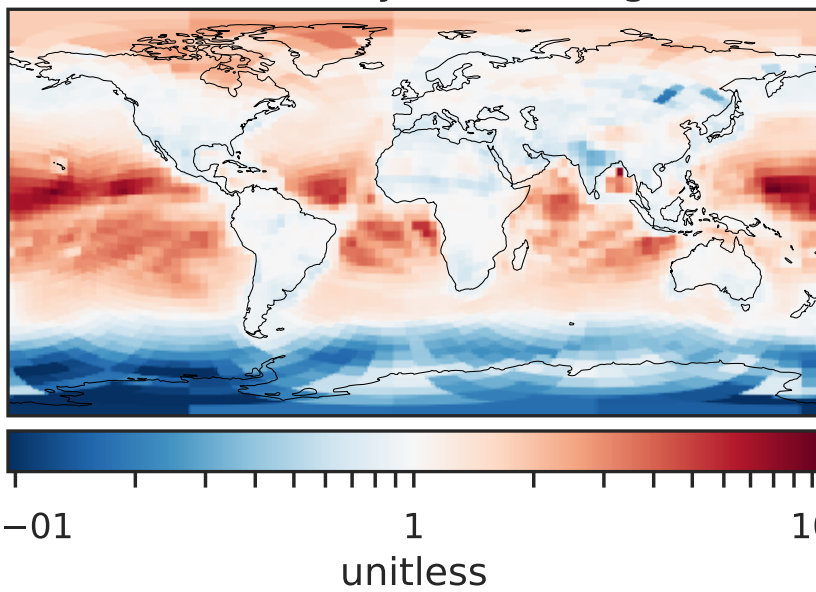
Difference (1x1.25)
Dev - Ref, Dynamic Range



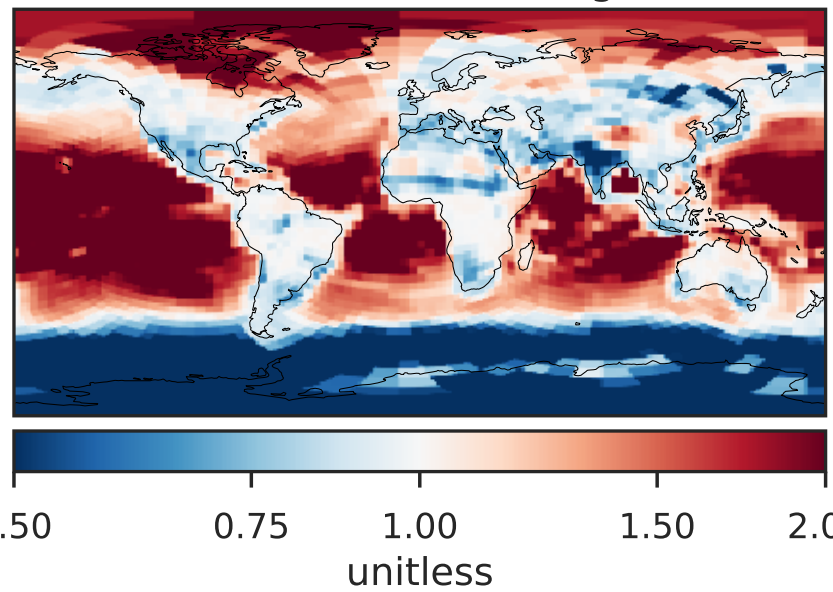
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

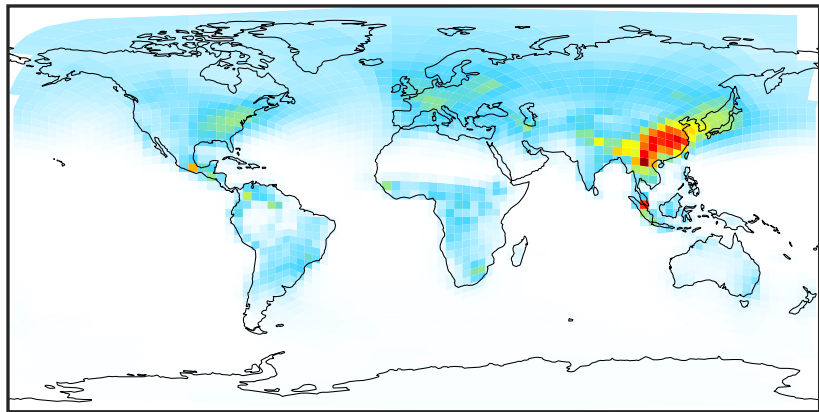


Ratio (1x1.25)
Dev/Ref, Fixed Range



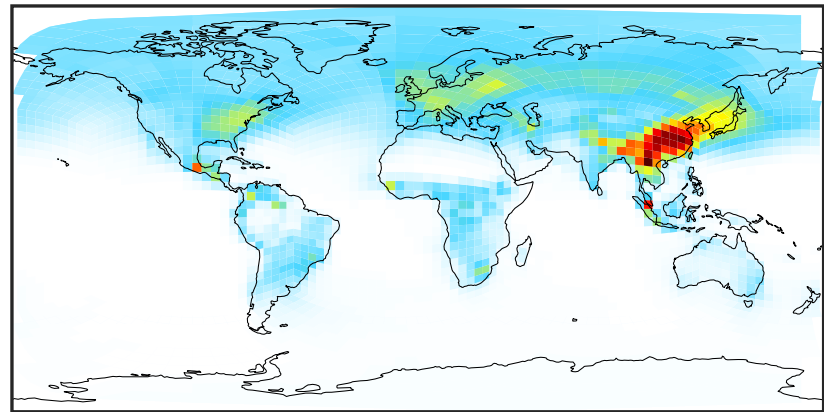
SpeciesConcVV_PAN (Apr2019)

GCHP_14.0.0 (Ref)
c24



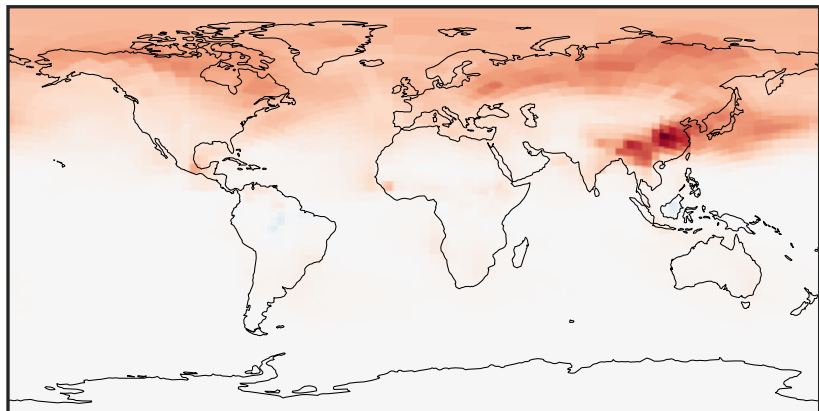
0.000 0.271 0.543 0.814 1.086
ppb

GCHP_14.2.0 (Dev)
c24



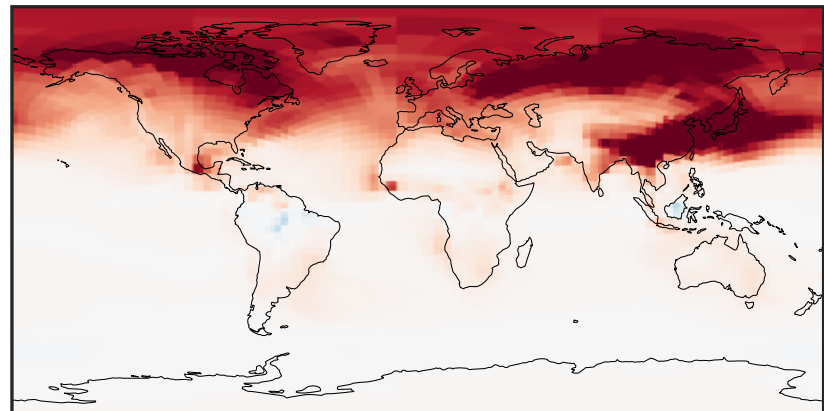
0.000 0.271 0.543 0.814 1.086
ppb

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



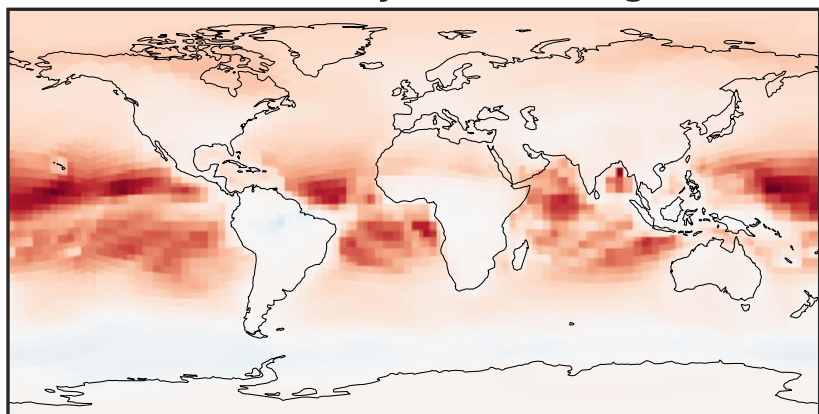
-0.2195 -0.1098 0.0000 0.1098 0.2195
ppb

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



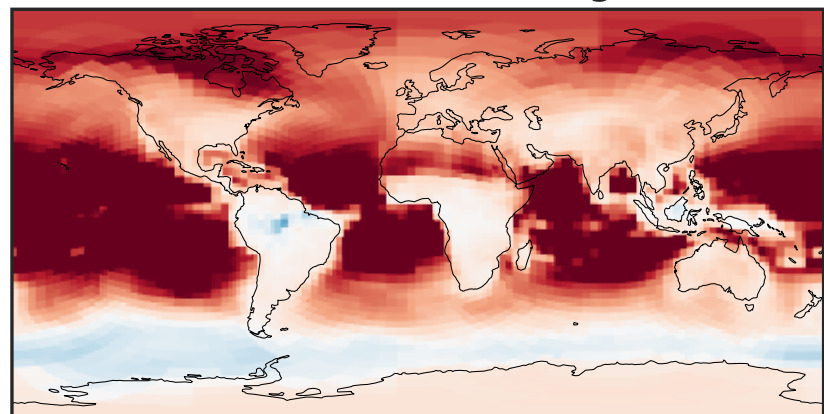
-0.0891 -0.0446 0.0000 0.0446 0.0891
ppb

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



1e-01 1 10
unitless

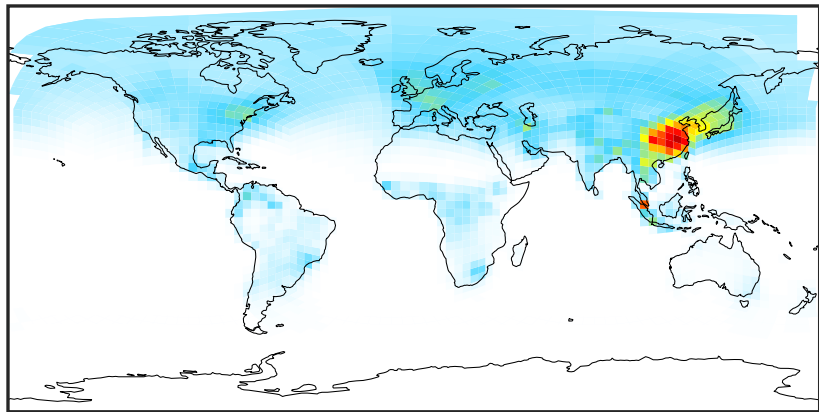
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

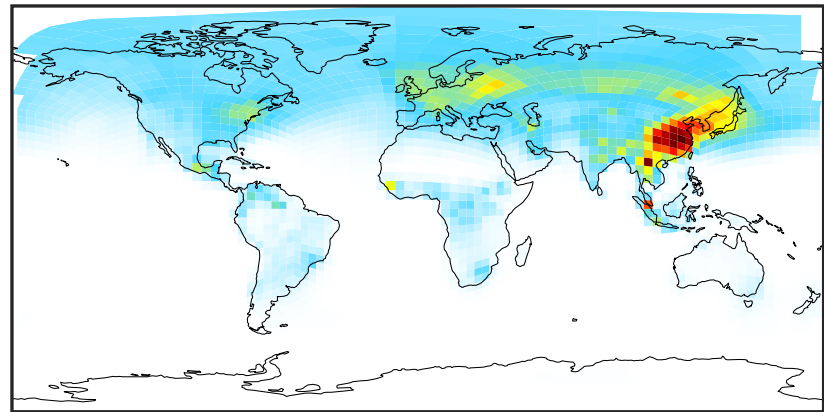
SpeciesConcVV_PPN (Apr2019)

GCHP_14.0.0 (Ref)
c24



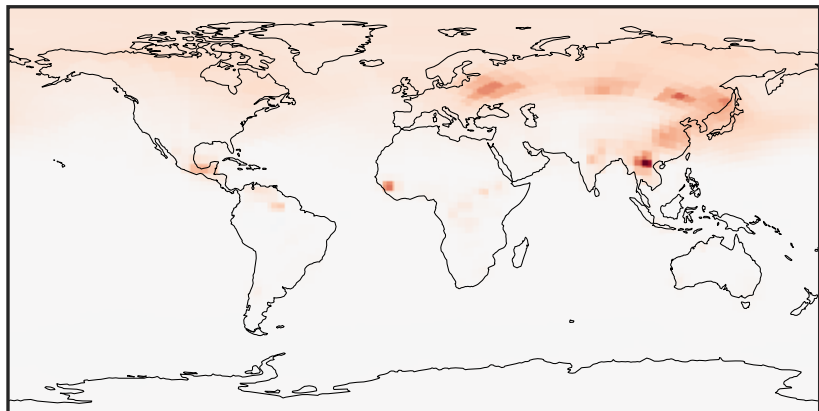
0.0000 0.0608 0.1217 0.1825 0.2433
ppb

GCHP_14.2.0 (Dev)
c24



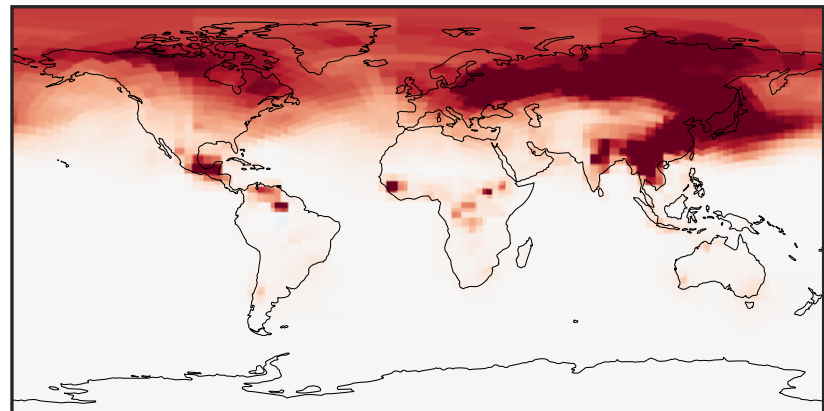
0.0000 0.0608 0.1217 0.1825 0.2433
ppb

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



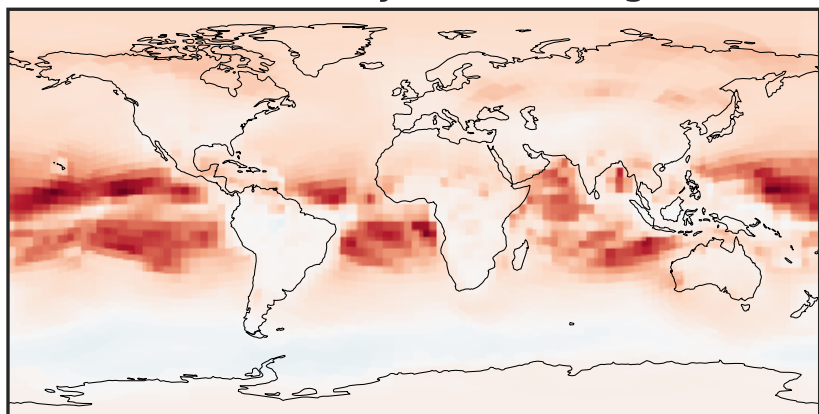
-0.1185 -0.0592 0.0000 0.0592 0.1185
ppb

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



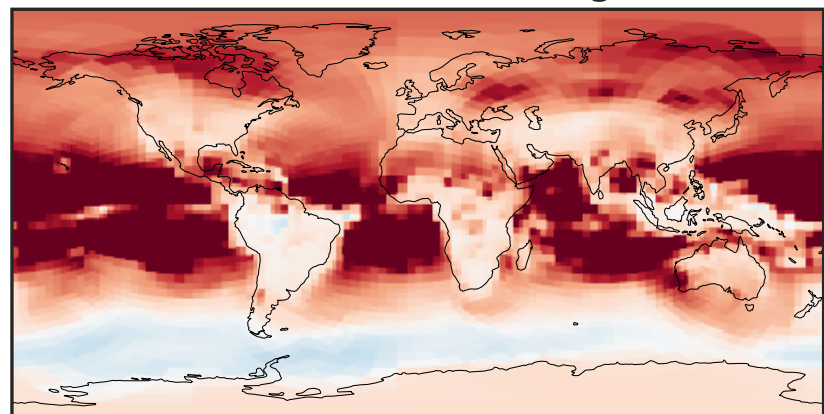
-0.015 0.000 0.015
ppb

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



0.119 0.559 1.000 4.709 8.417
unitless

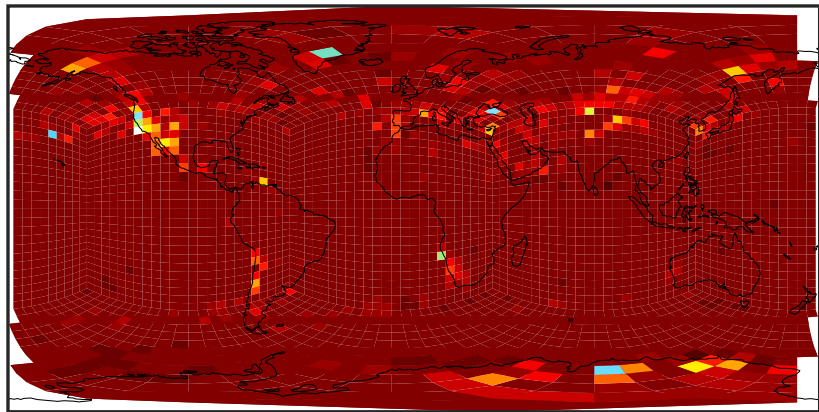
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

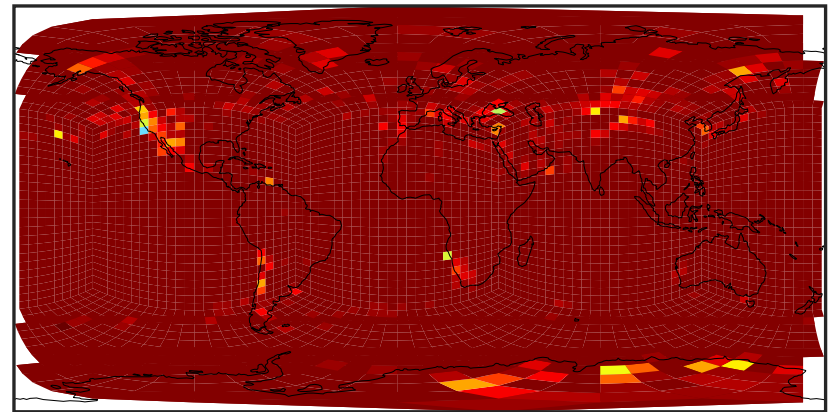
SpeciesConcVW_N2O (Apr2019)

GCHP_14.0.0 (Ref)
c24



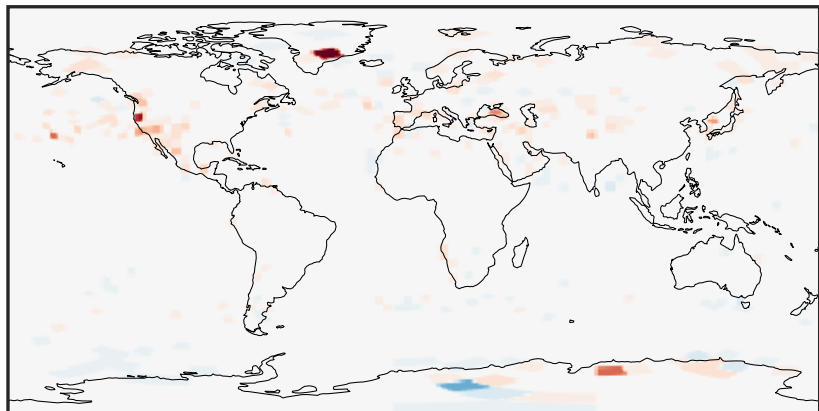
0.00275 0.00300 0.00325
ppb +3.3015e2

GCHP_14.2.0 (Dev)
c24



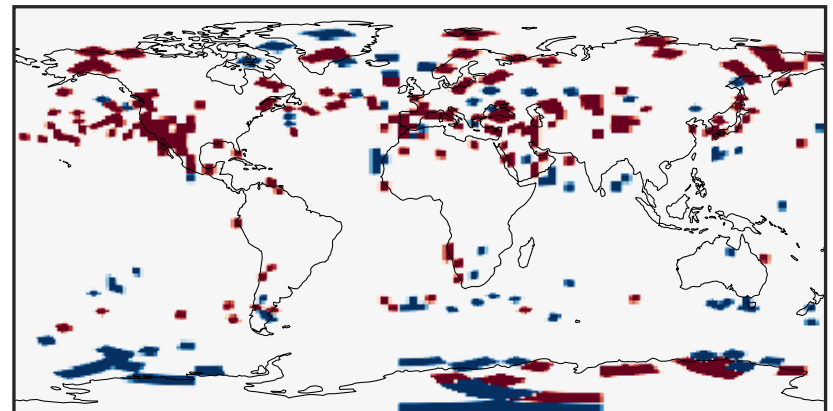
0.00275 0.00300 0.00325
ppb +3.3015e2

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



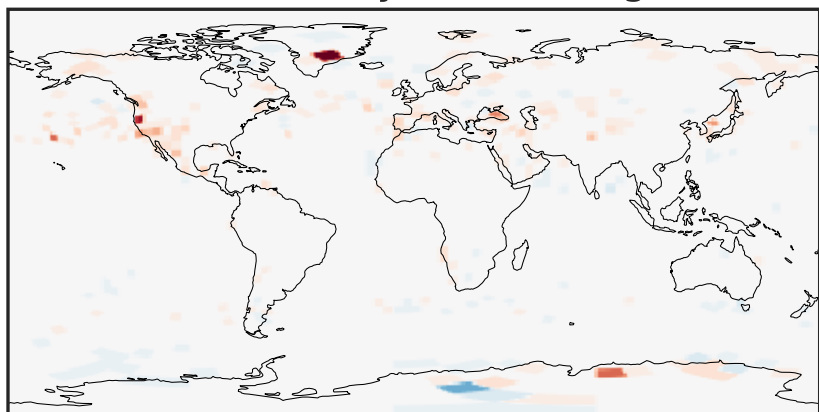
-0.00025 0.00000 0.00025
ppb

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



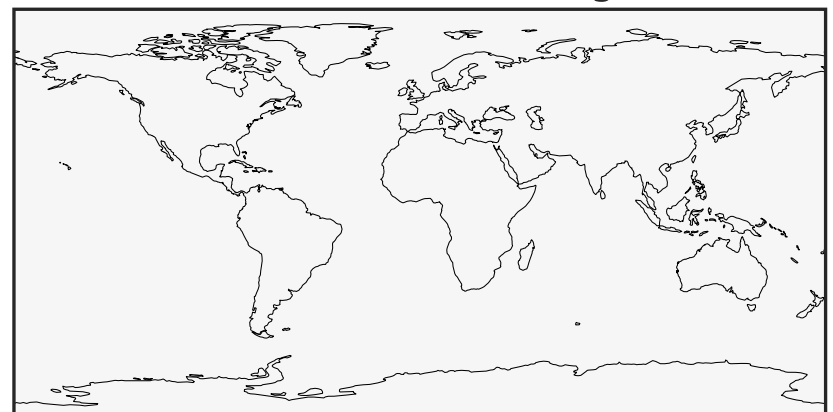
-1.5 0.0 1.5
ppb 1e-5

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



0.999998706 1.000000000 1.000001294
unitless

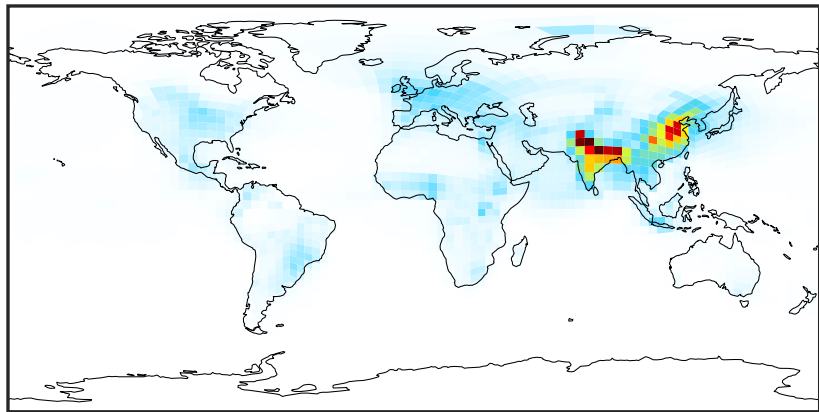
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

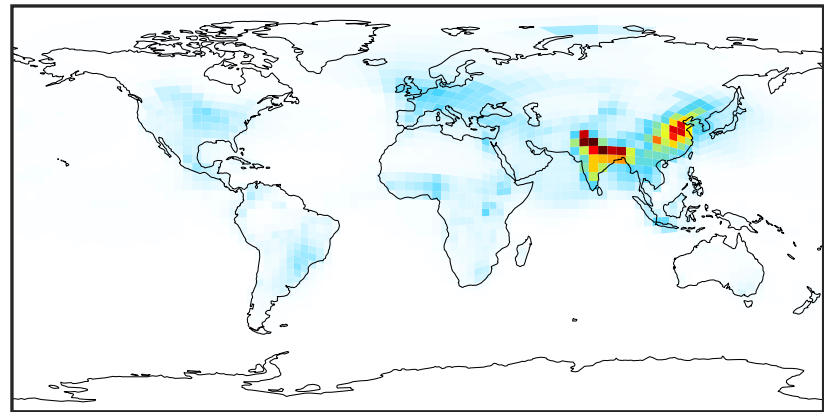
SpeciesConcVV_NHx (Apr2019)

GCHP_14.0.0 (Ref)
c24



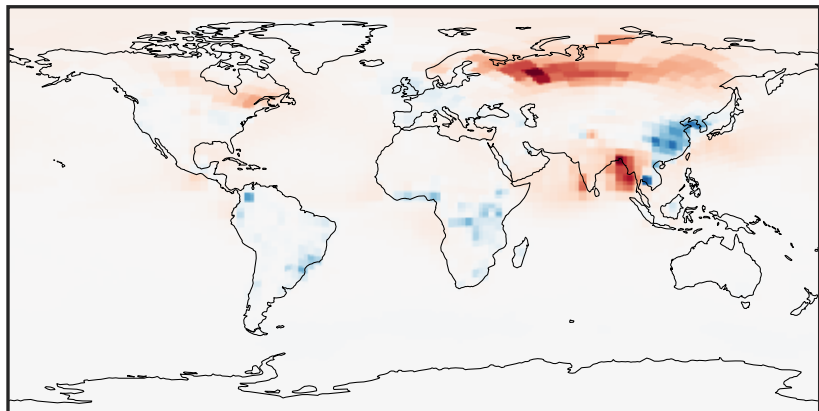
0.00 11.43 22.86 34.29 45.72
ppb

GCHP_14.2.0 (Dev)
c24



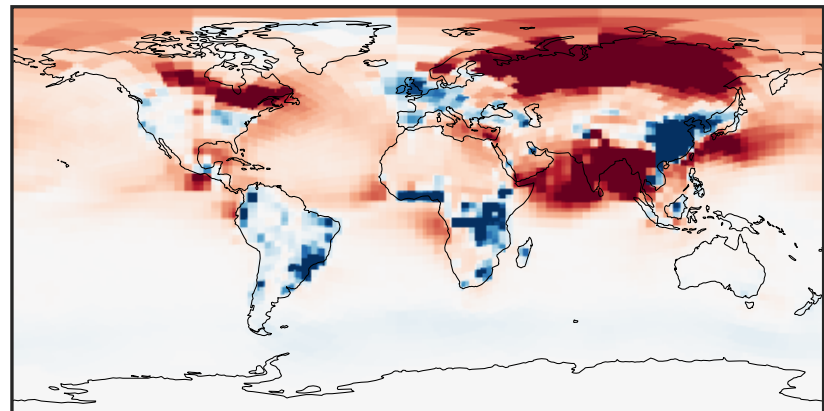
0.00 11.43 22.86 34.29 45.72
ppb

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



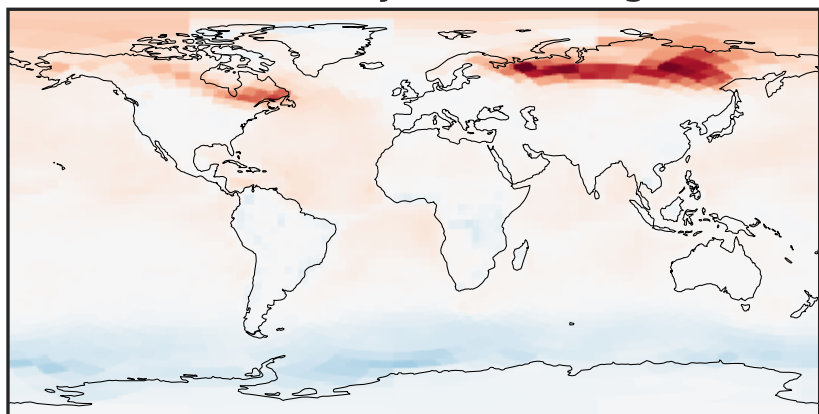
-0.4909 -0.2455 0.0000 0.2455 0.4909
ppb

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



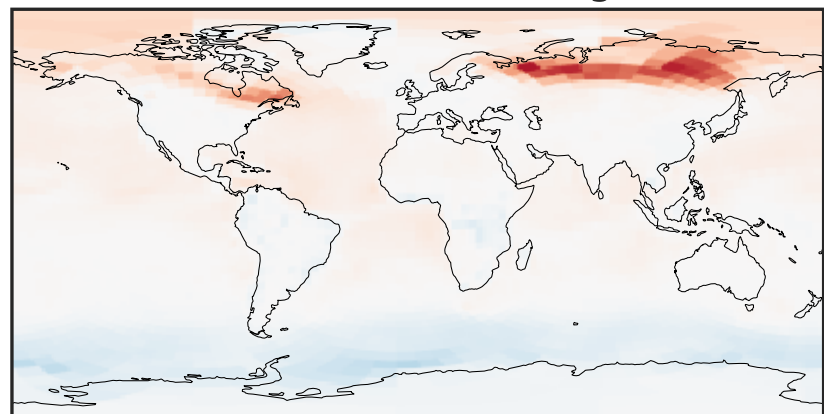
-0.0681 -0.0341 0.0000 0.0341 0.0681
ppb

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



0.570 0.785 1.000 1.377 1.754
unitless

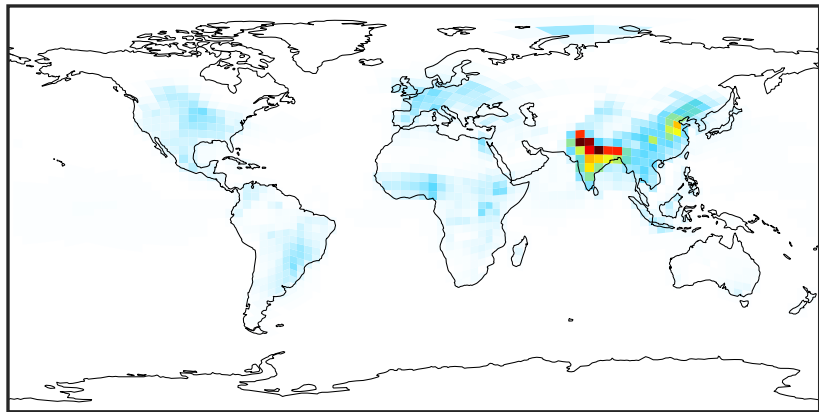
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

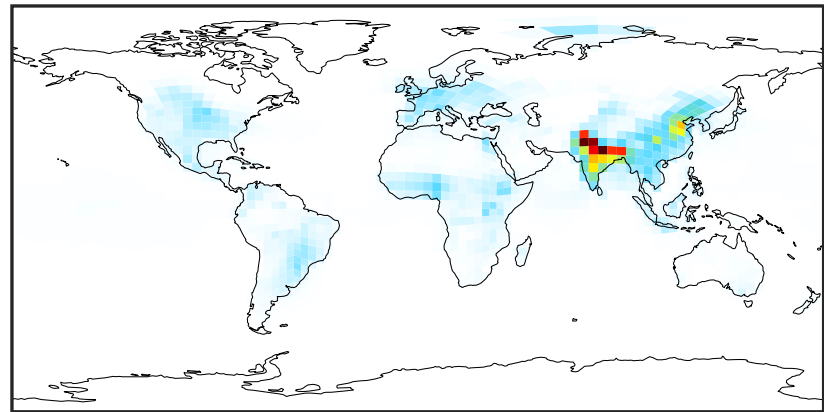
SpeciesConcVV_NH3 (Apr2019)

GCHP_14.0.0 (Ref)
c24



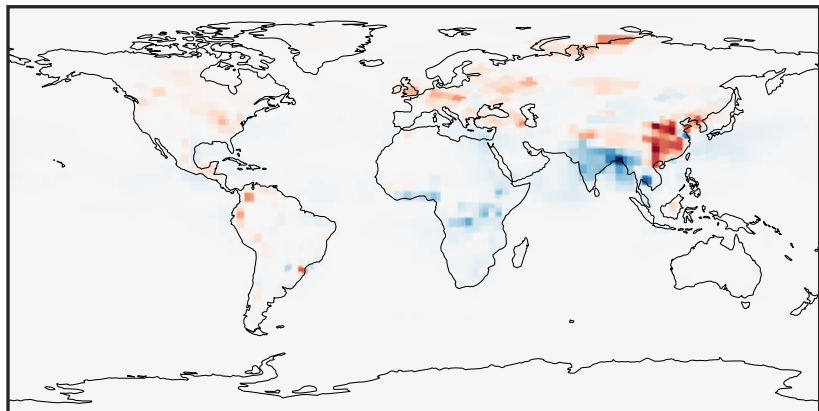
0.00 9.31 18.61 27.92 37.23
ppb

GCHP_14.2.0 (Dev)
c24



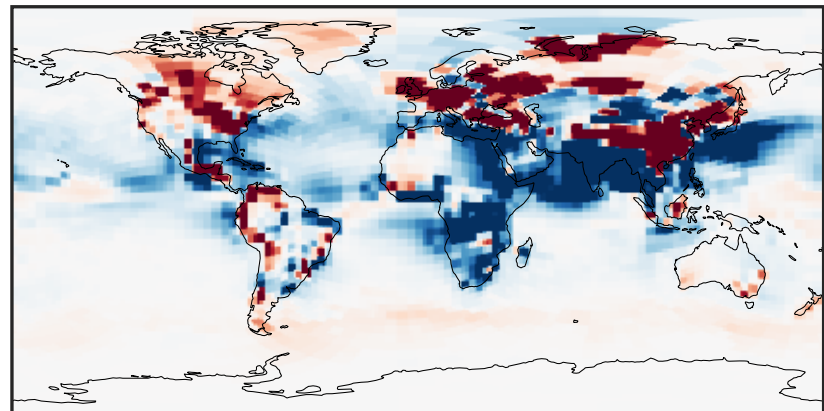
0.00 9.31 18.61 27.92 37.23
ppb

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



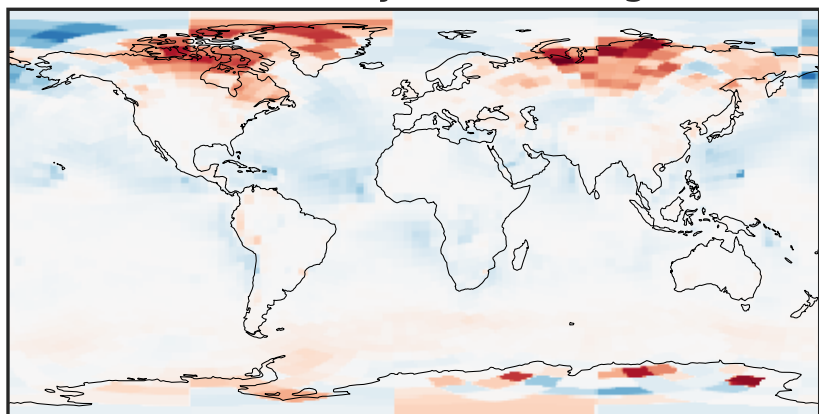
-0.4378 -0.2189 0.0000 0.2189 0.4378
ppb

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



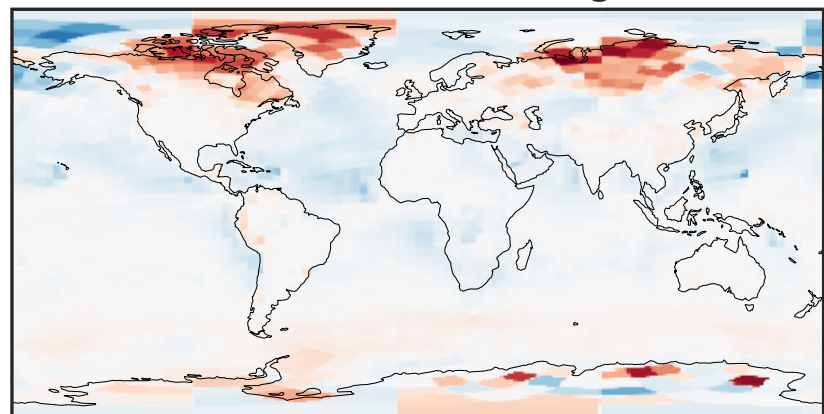
-0.015 0.000 0.015
ppb

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



0.499 0.750 1.000 1.502 2.003
unitless

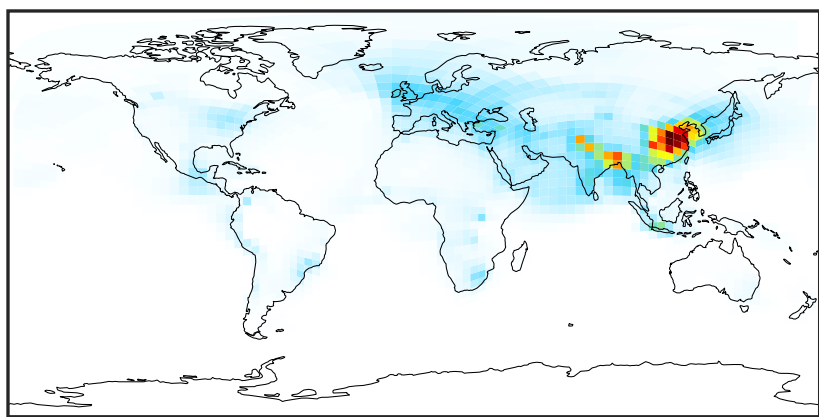
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

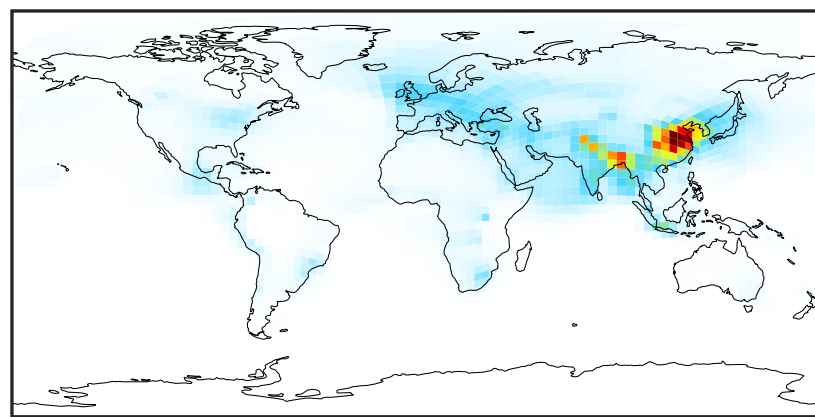
SpeciesConcVV_NH4 (Apr2019)

GCHP_14.0.0 (Ref)
c24



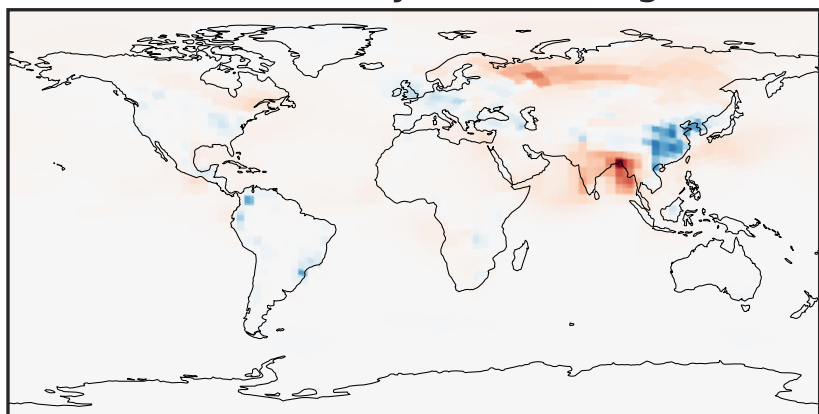
0.00 5.12 10.25 15.37 20.50
ppb

GCHP_14.2.0 (Dev)
c24



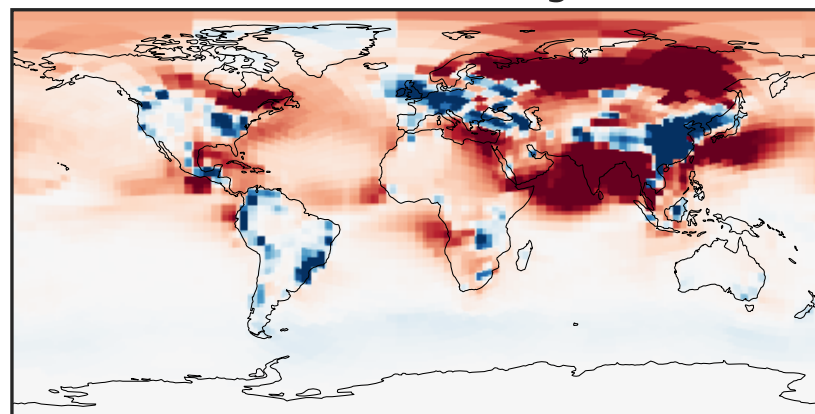
0.00 5.12 10.25 15.37 20.50
ppb

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



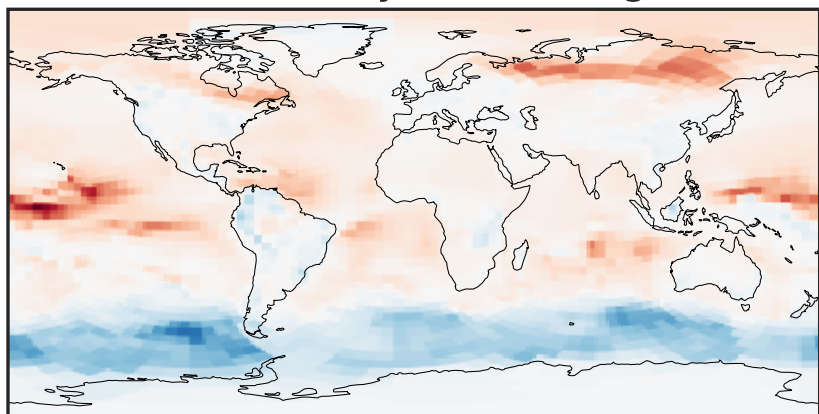
-0.926 -0.463 0.000 0.463 0.926
ppb

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



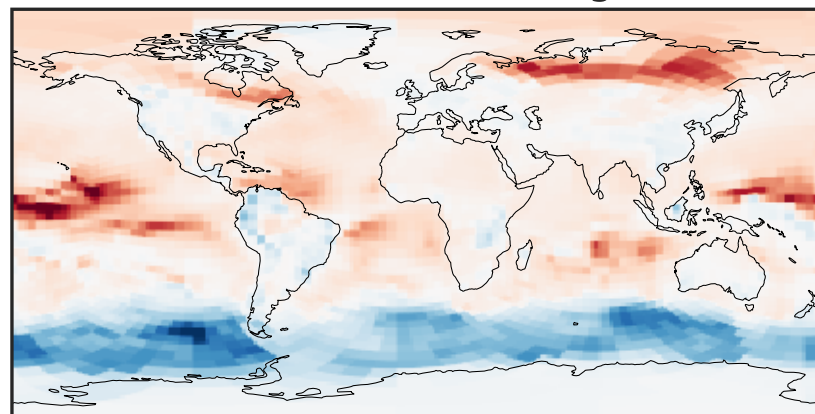
-0.0745 -0.0372 0.0000 0.0372 0.0745
ppb

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



0.382 0.691 1.000 1.810 2.619
unitless

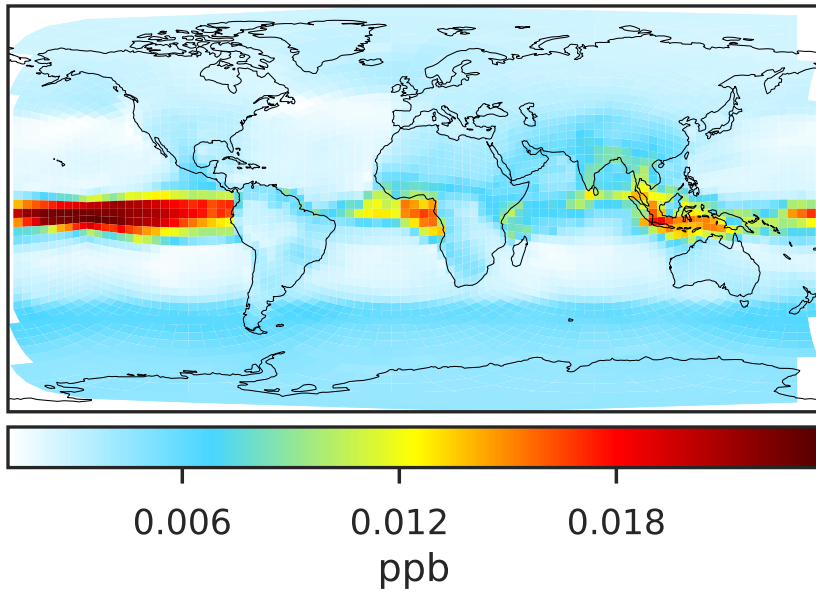
Ratio (1x1.25)
Dev/Ref, Fixed Range



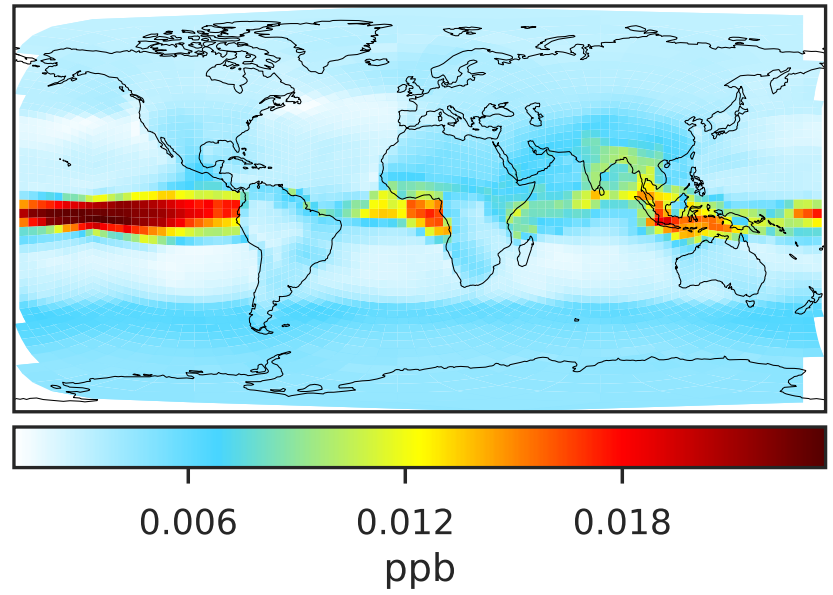
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_MENO3 (Apr2019)

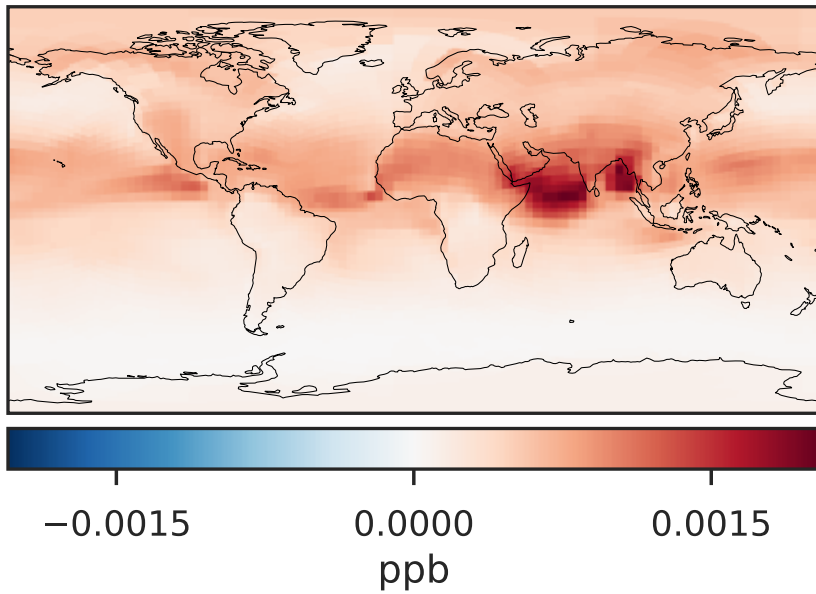
GCHP_14.0.0 (Ref)
c24



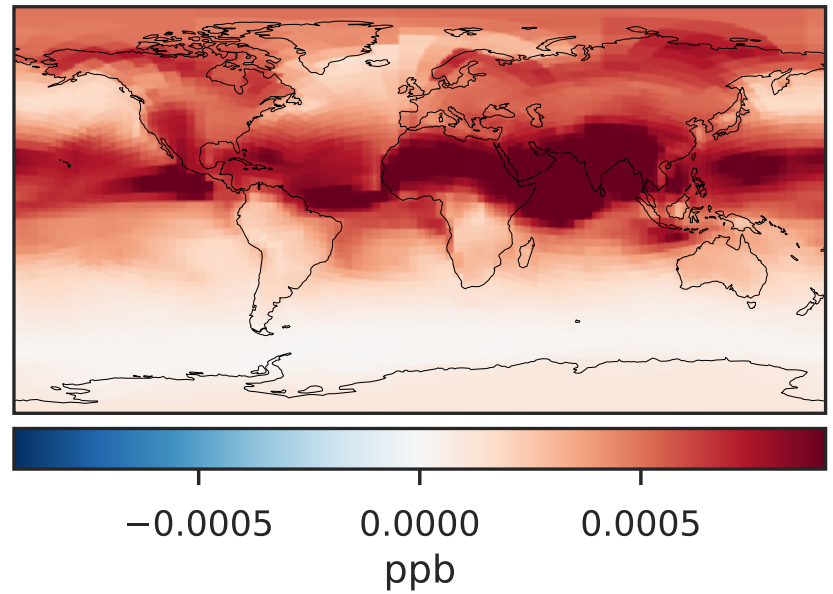
GCHP_14.2.0 (Dev)
c24



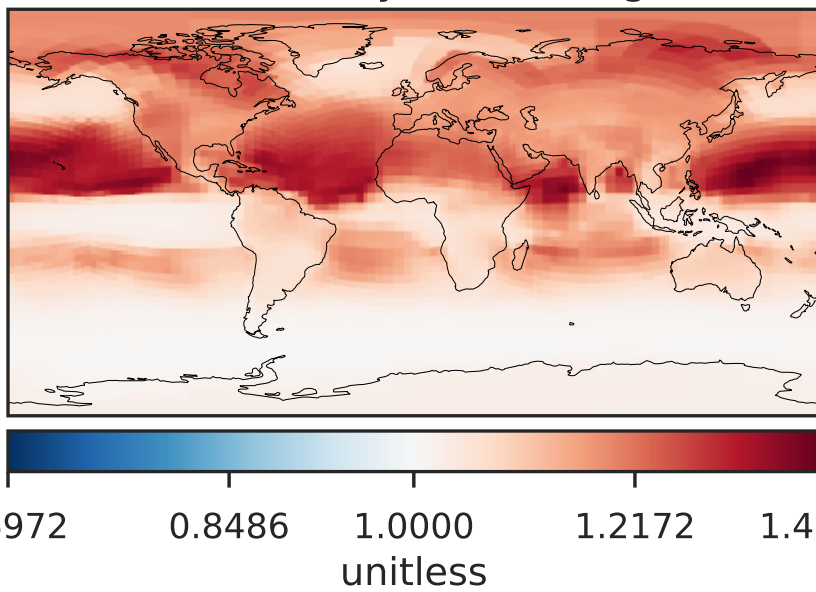
Difference (1x1.25)
Dev - Ref, Dynamic Range



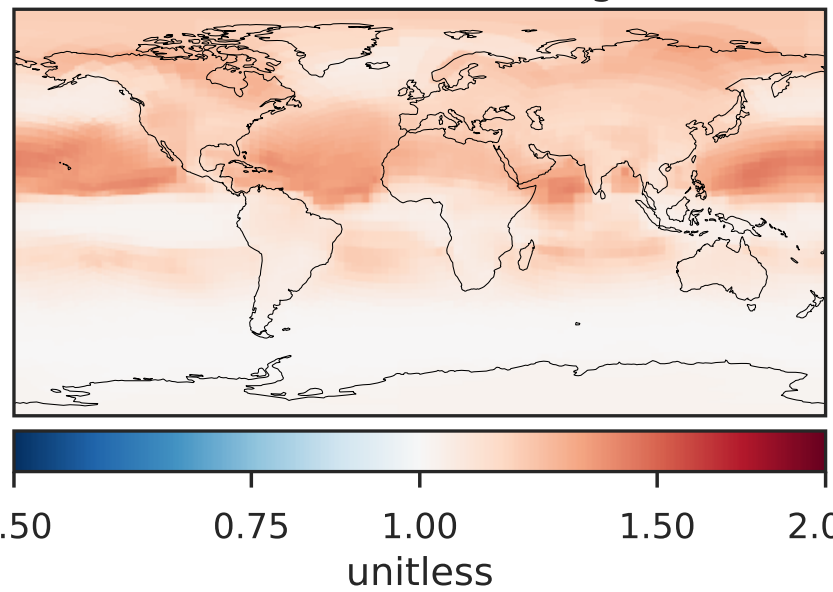
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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



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

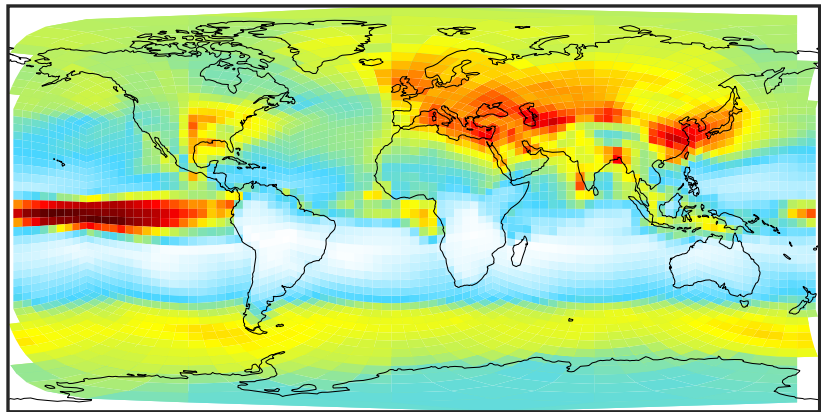


0.6972 0.8486 1.0000 1.2172 1.4344
unitless

0.50 0.75 1.00 1.50 2.00
unitless

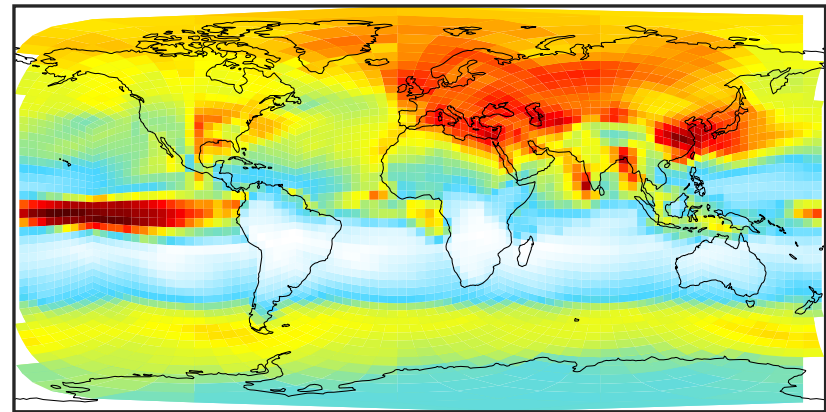
SpeciesConcVV_ETNO3 (Apr2019)

GCHP_14.0.0 (Ref)
c24



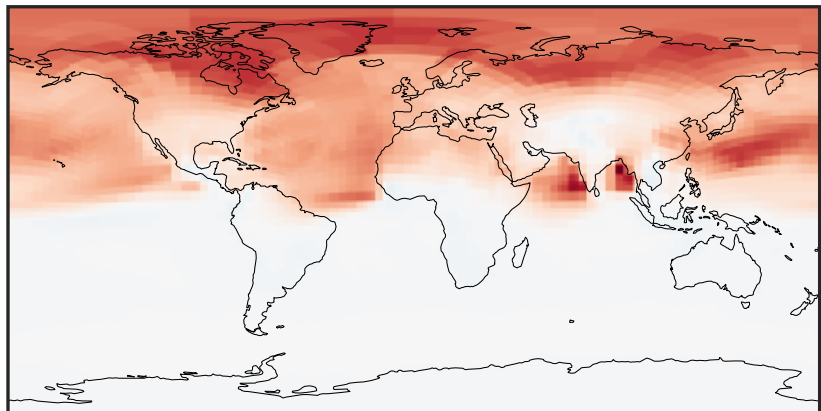
0.002 0.004 0.006 0.008
ppb

GCHP_14.2.0 (Dev)
c24



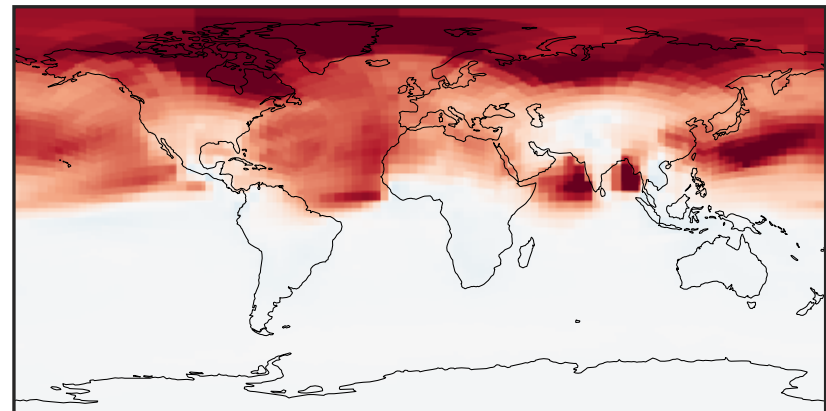
0.002 0.004 0.006 0.008
ppb

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



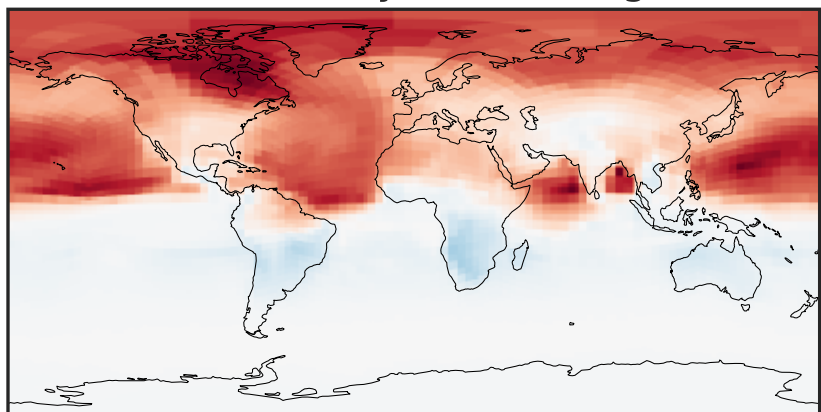
-0.001 0.000 0.001
ppb

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



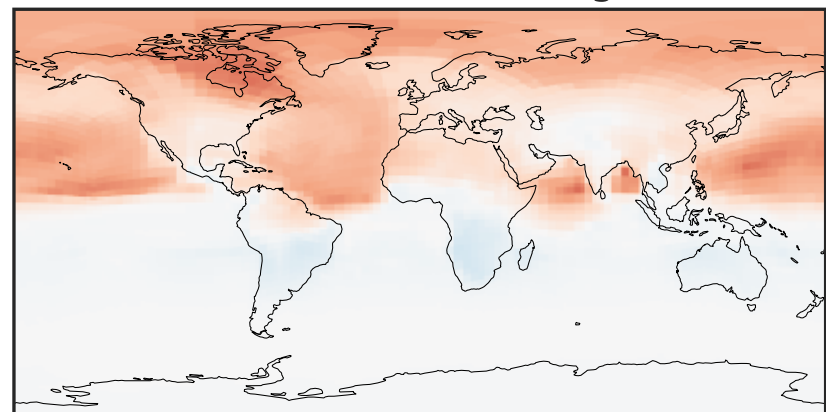
-0.0006 0.0000 0.0006
ppb

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



0.6806 0.8403 1.000 1.2346 1.4692
unitless

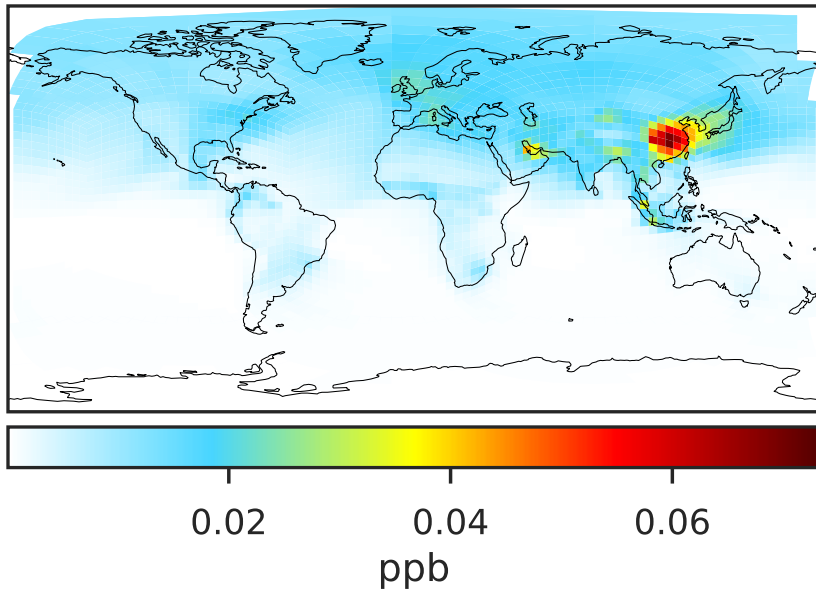
Ratio (1x1.25)
Dev/Ref, Fixed Range



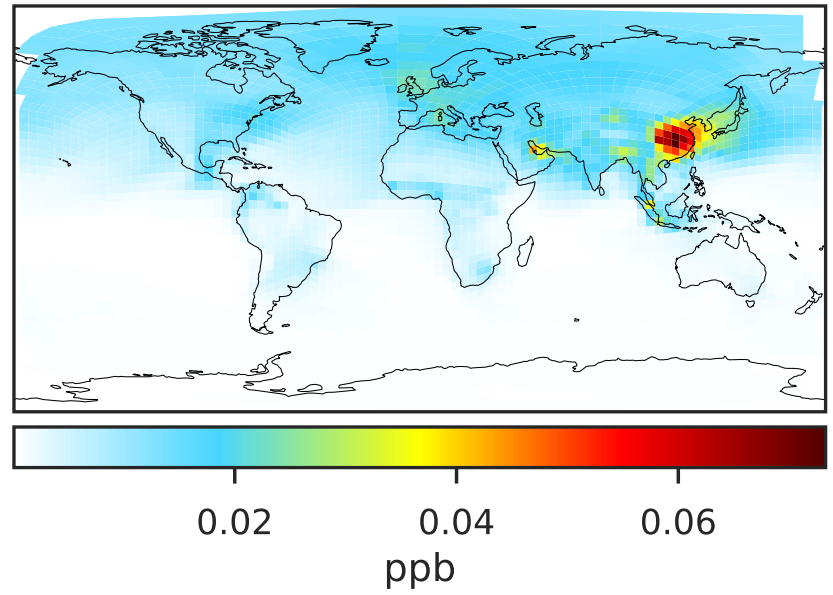
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_IPRNO3 (Apr2019)

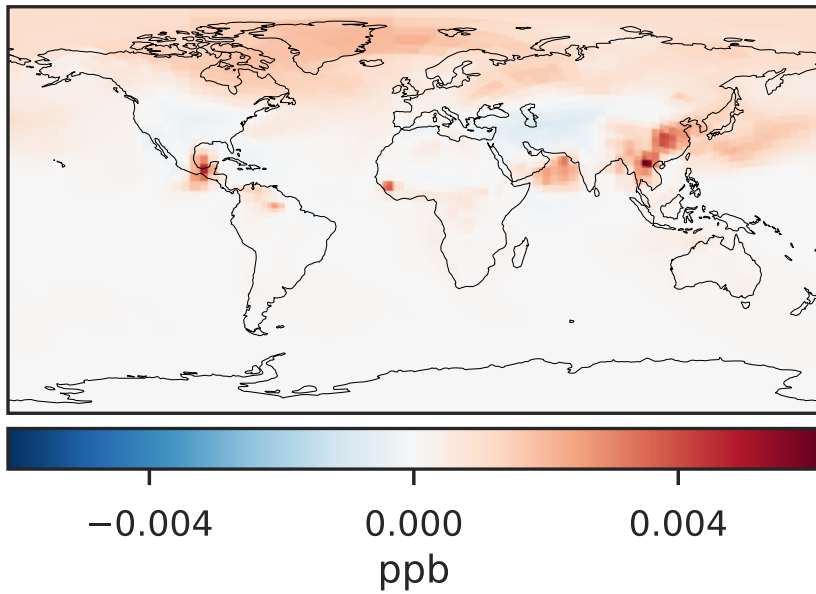
GCHP_14.0.0 (Ref)
c24



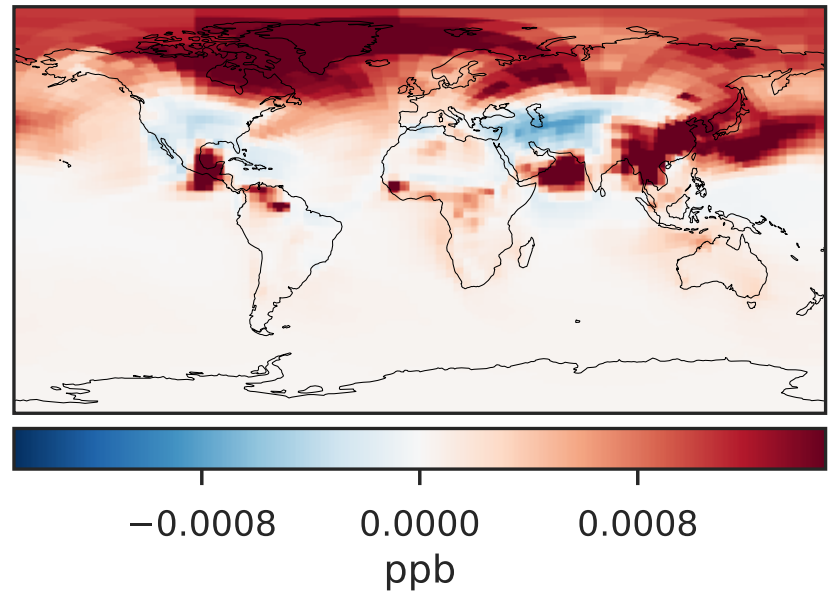
GCHP_14.2.0 (Dev)
c24



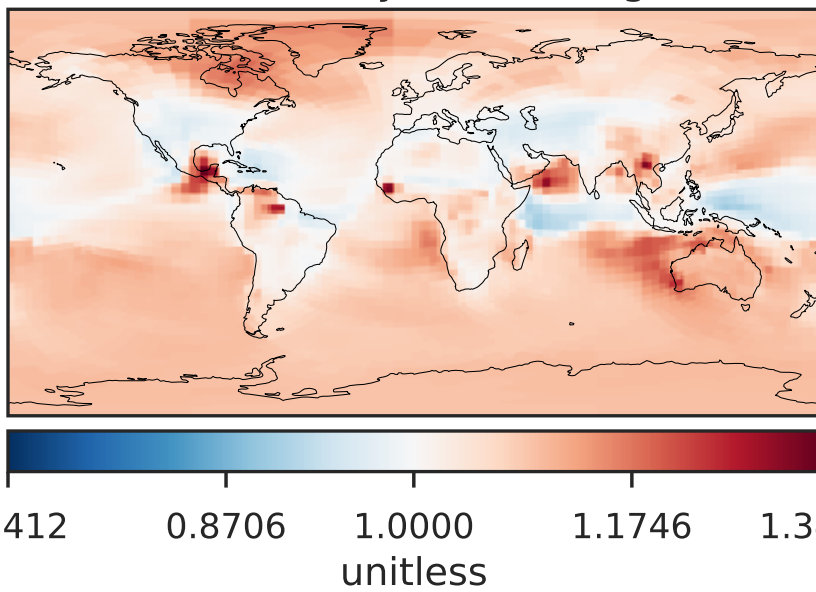
Difference (1x1.25)
Dev - Ref, Dynamic Range



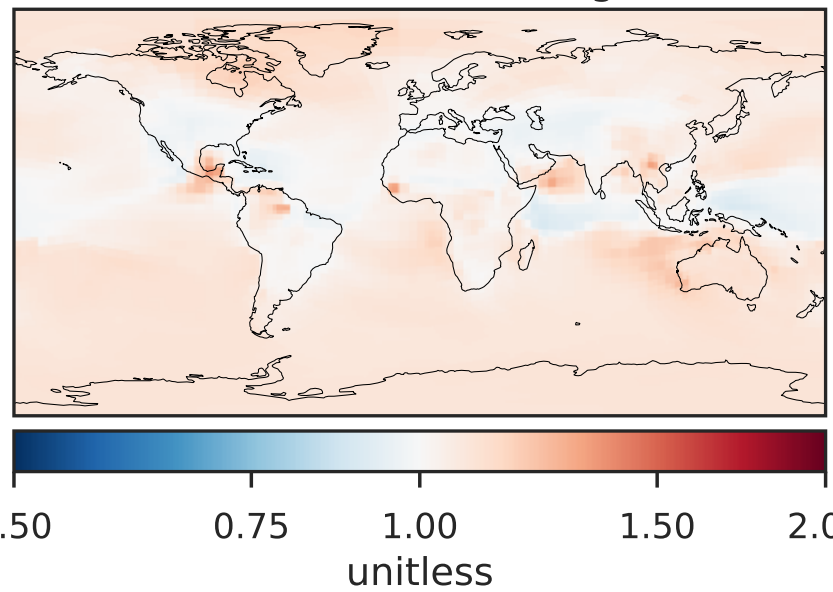
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

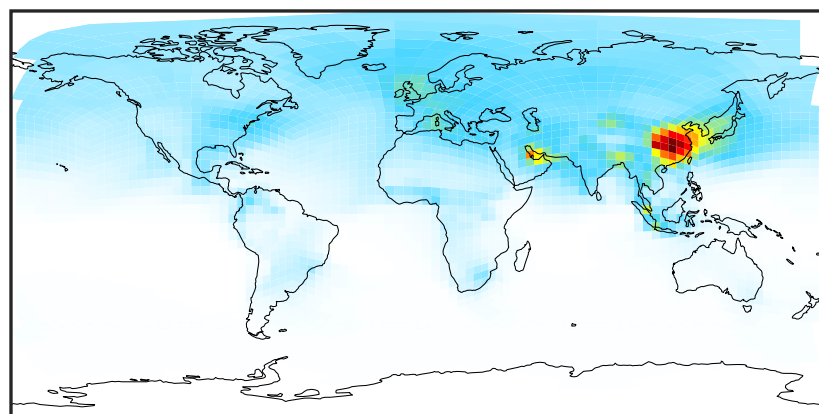


Ratio (1x1.25)
Dev/Ref, Fixed Range



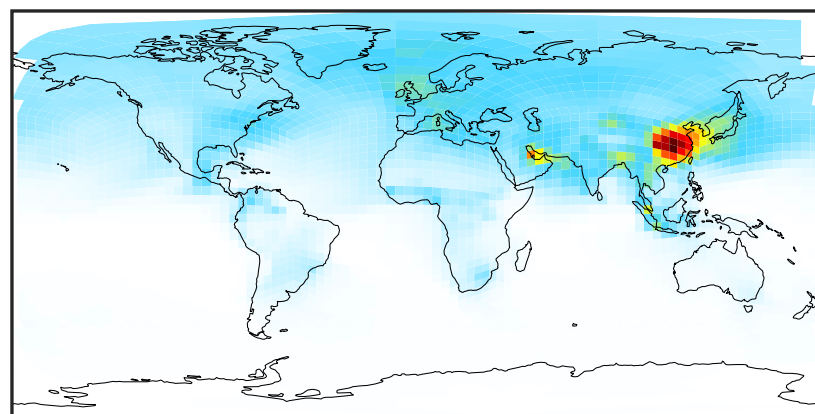
SpeciesConcVV_NPRNO3 (Apr2019)

GCHP_14.0.0 (Ref)
c24



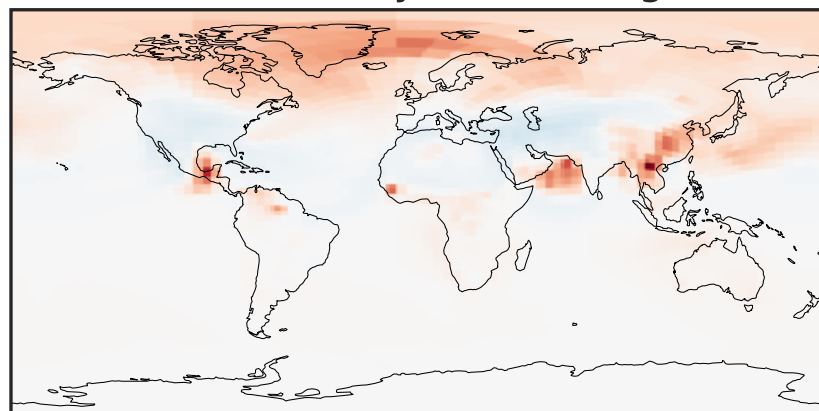
0.006 0.012 0.018
ppb

GCHP_14.2.0 (Dev)
c24



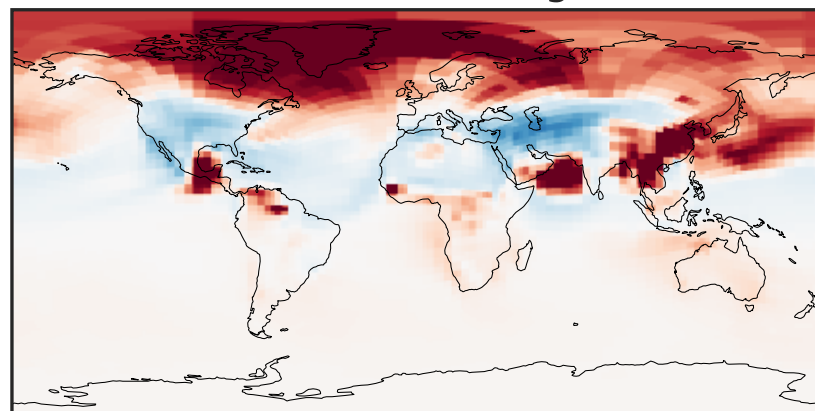
0.006 0.012 0.018
ppb

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



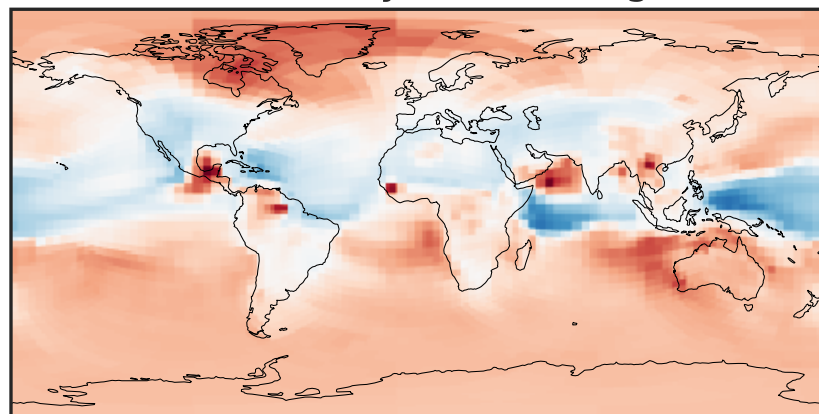
-0.0008 0.0000 0.0008
ppb

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



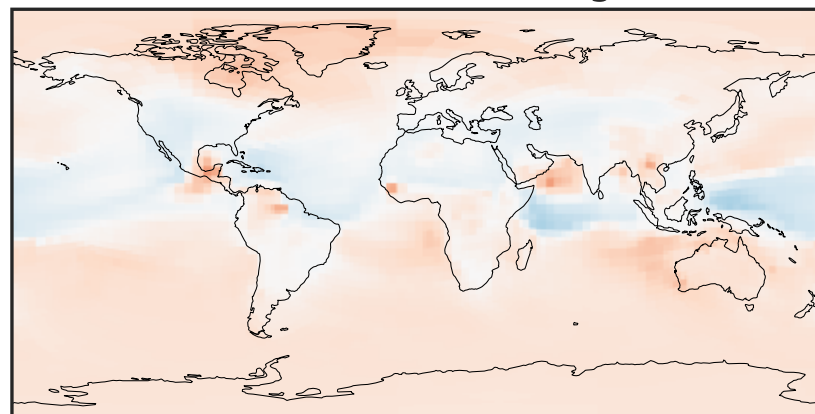
-0.00025 0.00000 0.00025
ppb

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



0.7430 0.8715 1.0000 1.1729 1.3459
unitless

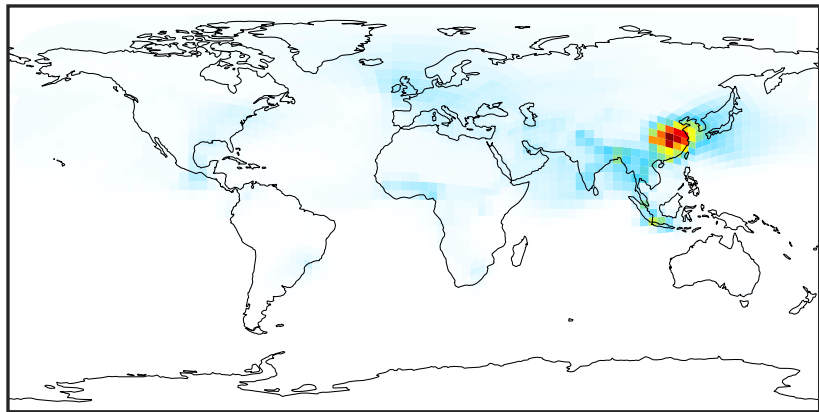
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

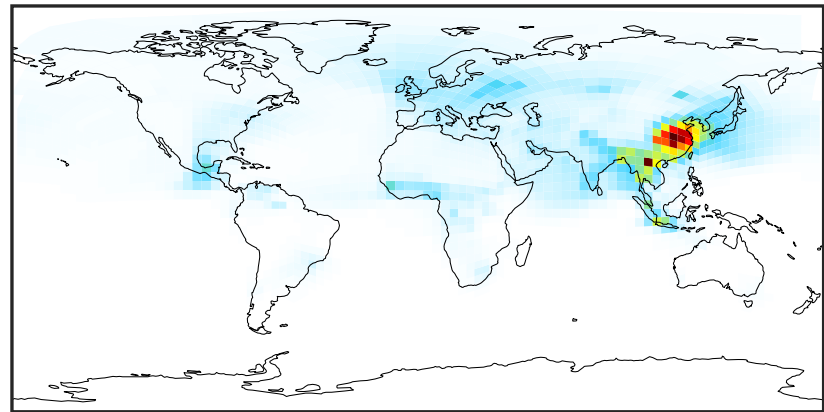
SpeciesConcVV_AONITA (Apr2019)

GCHP_14.0.0 (Ref)
c24



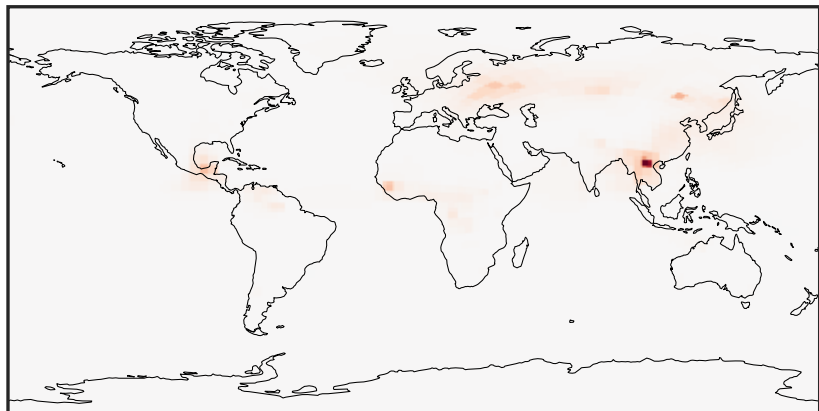
0.0000 0.0504 0.1009 0.1513 0.2018
ppb

GCHP_14.2.0 (Dev)
c24



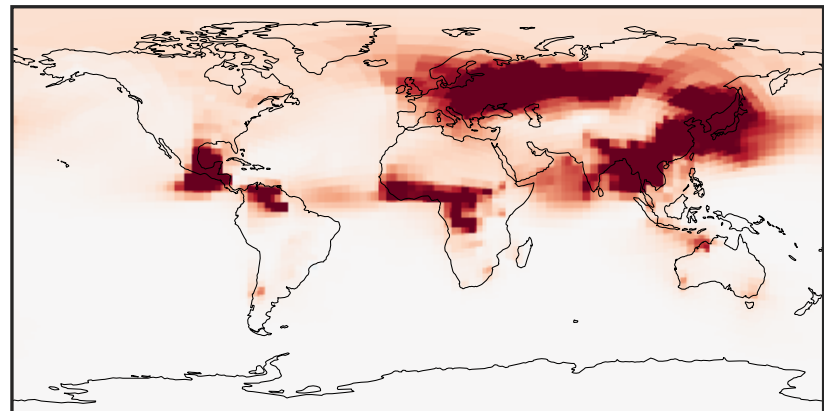
0.0000 0.0504 0.1009 0.1513 0.2018
ppb

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



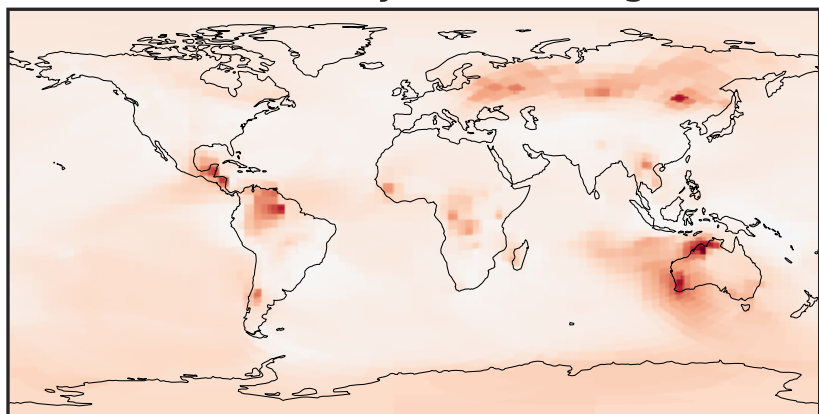
-0.1487 -0.0744 0.0000 0.0744 0.1487
ppb

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



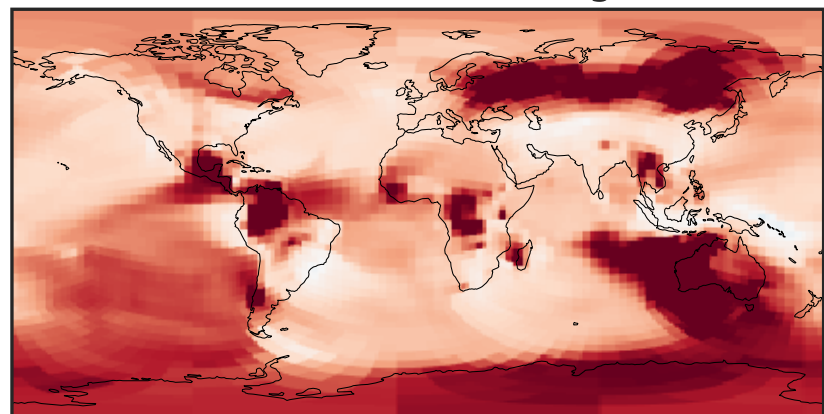
-0.003 0.000 0.003
ppb

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



1e-01 1 10
unitless

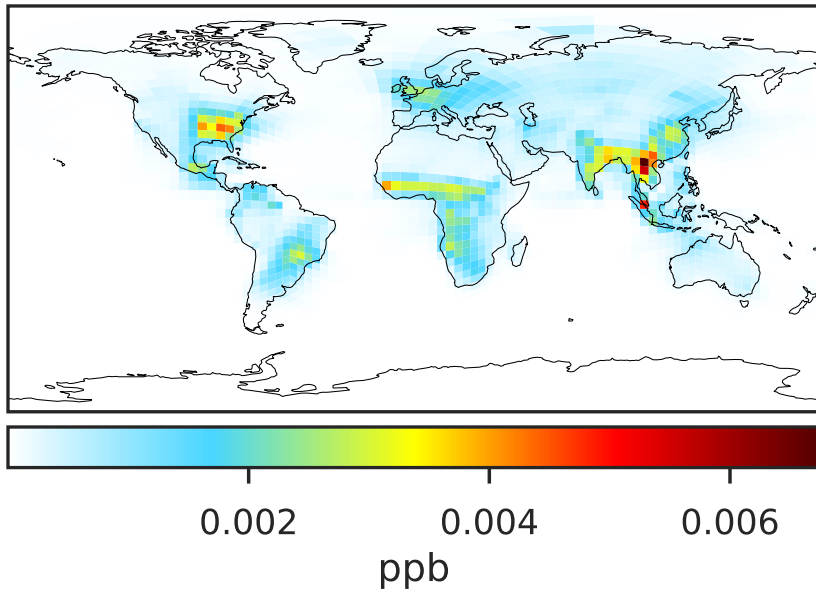
Ratio (1x1.25)
Dev/Ref, Fixed Range



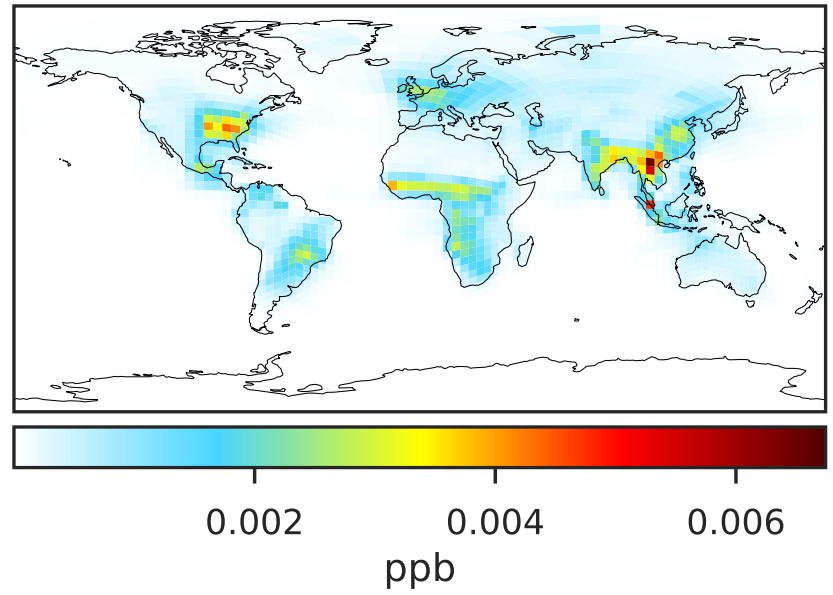
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_ETHN (Apr2019)

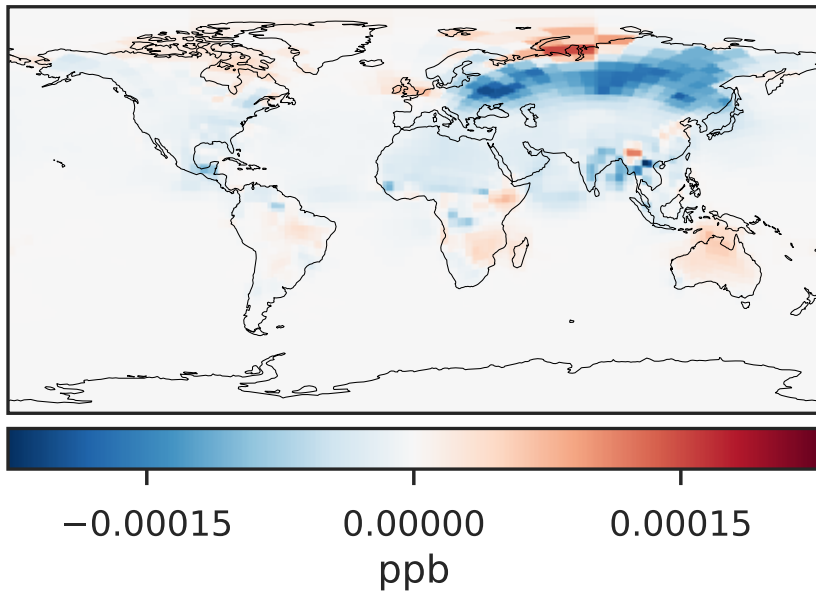
GCHP_14.0.0 (Ref)
c24



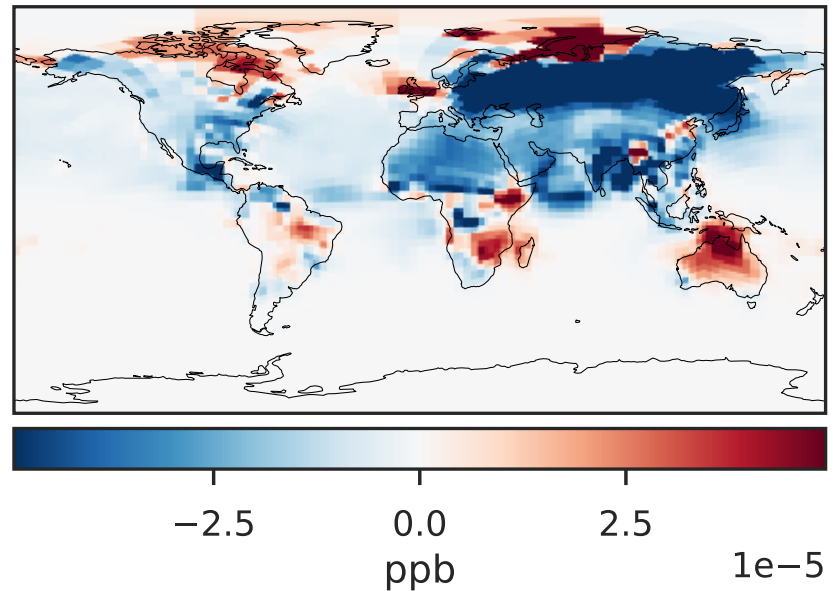
GCHP_14.2.0 (Dev)
c24



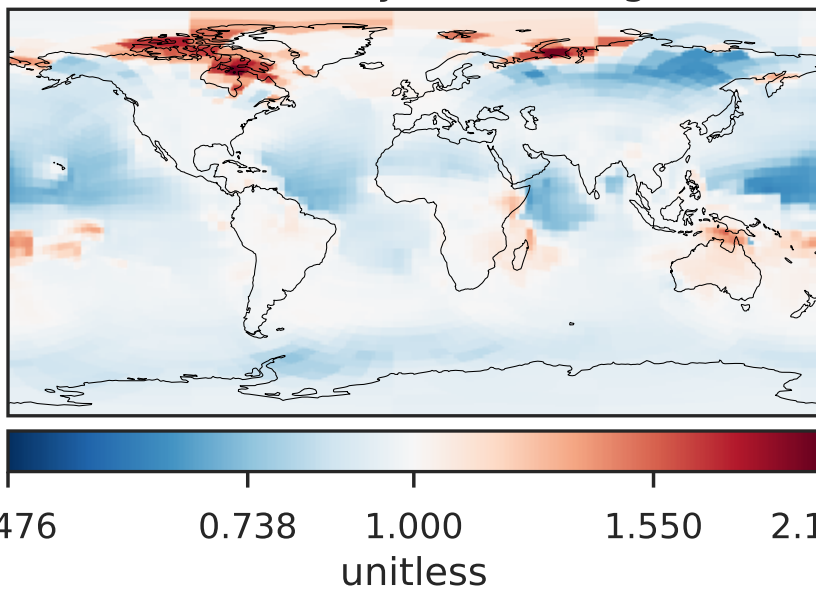
Difference (1x1.25)
Dev - Ref, Dynamic Range



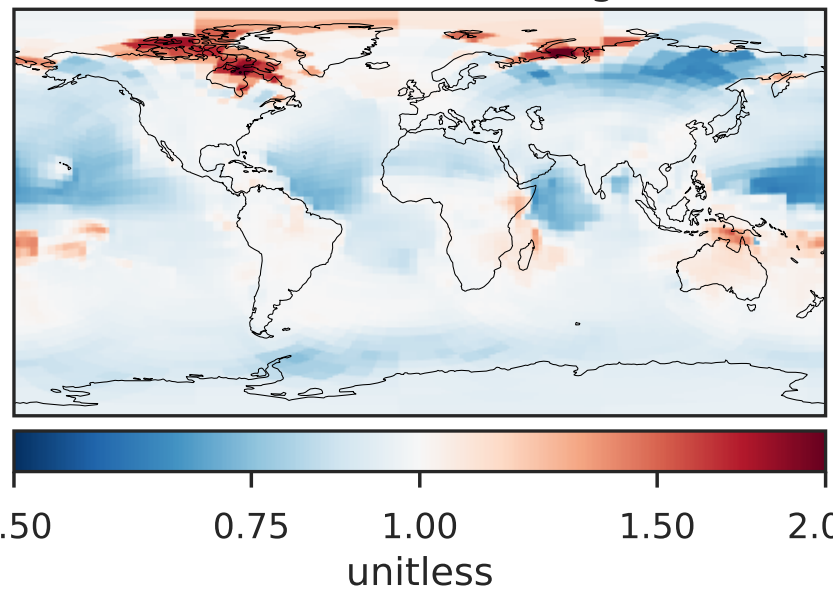
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

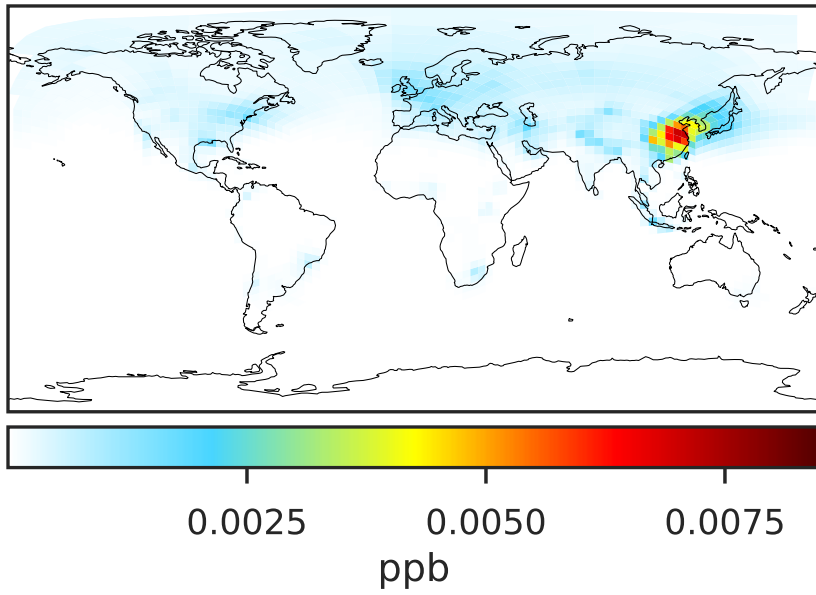


Ratio (1x1.25)
Dev/Ref, Fixed Range

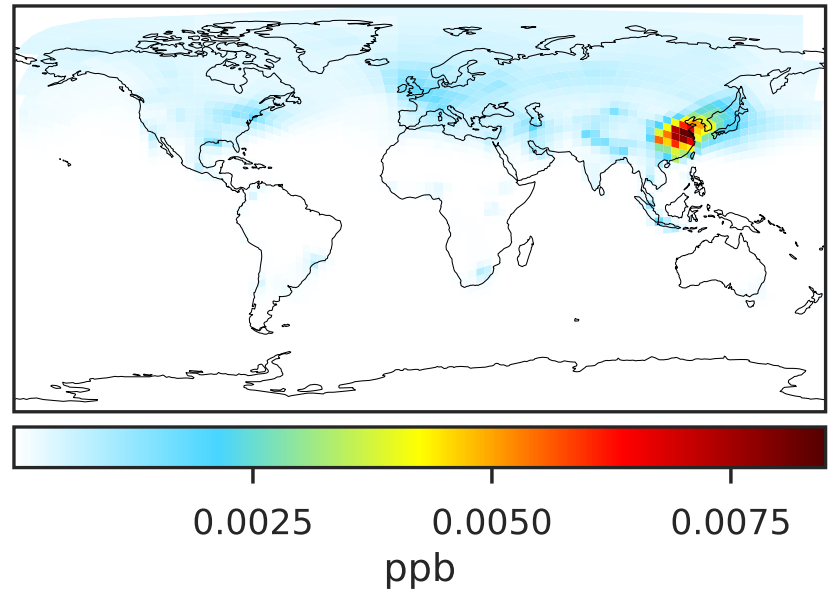


SpeciesConcVV_BZPAN (Apr2019)

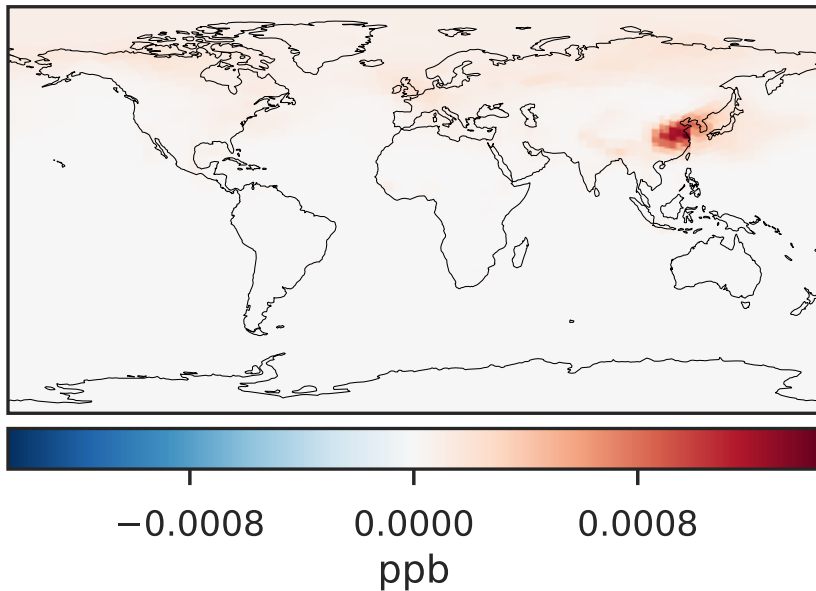
GCHP_14.0.0 (Ref)
c24



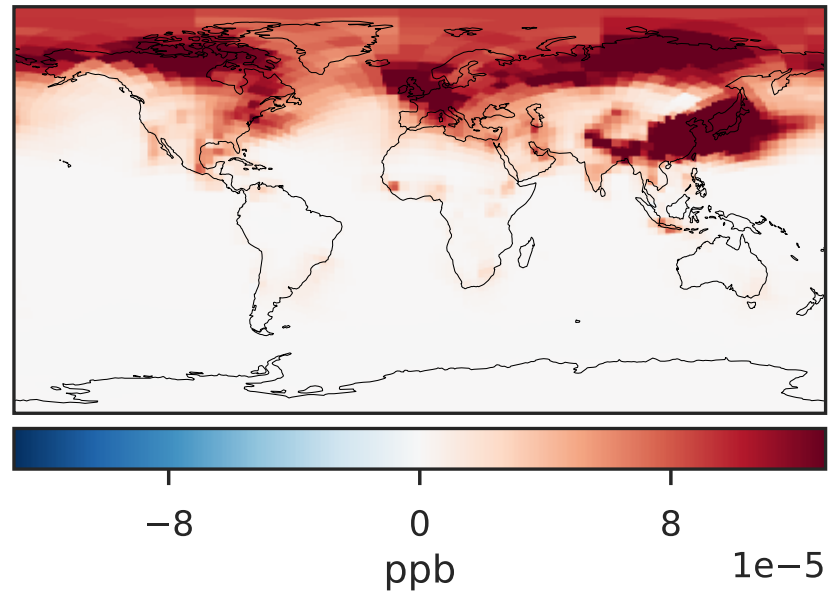
GCHP_14.2.0 (Dev)
c24



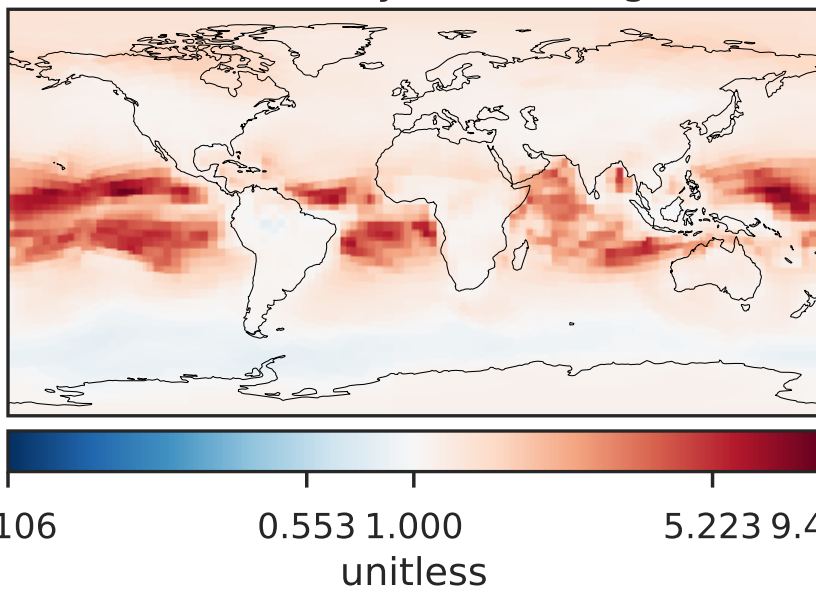
Difference (1x1.25)
Dev - Ref, Dynamic Range



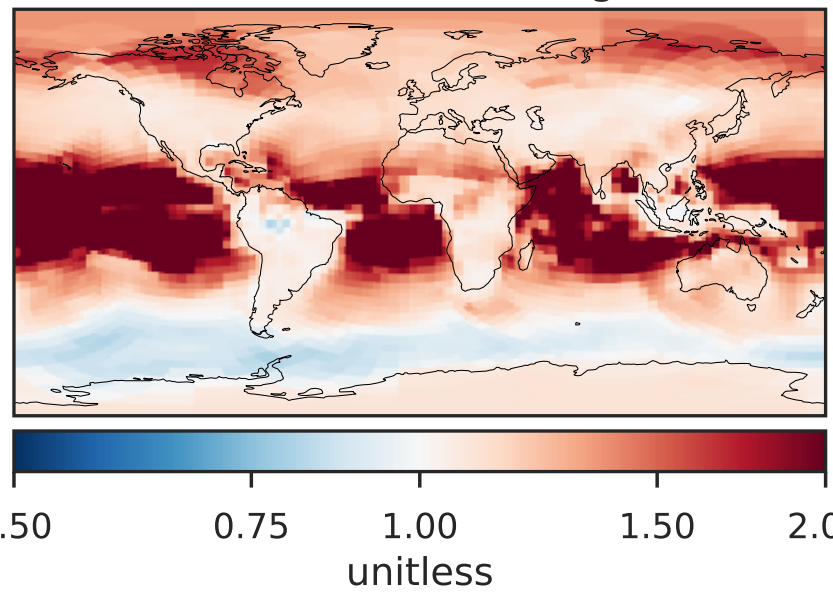
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

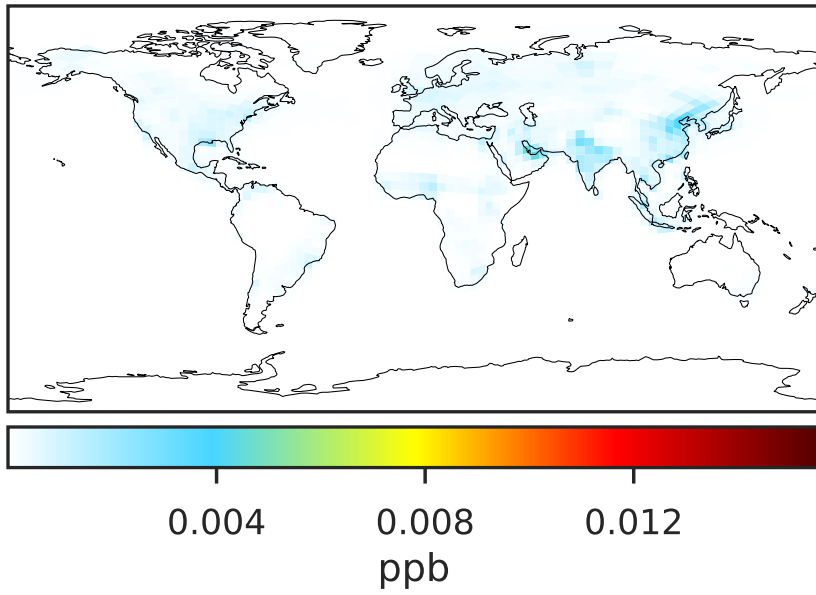


Ratio (1x1.25)
Dev/Ref, Fixed Range

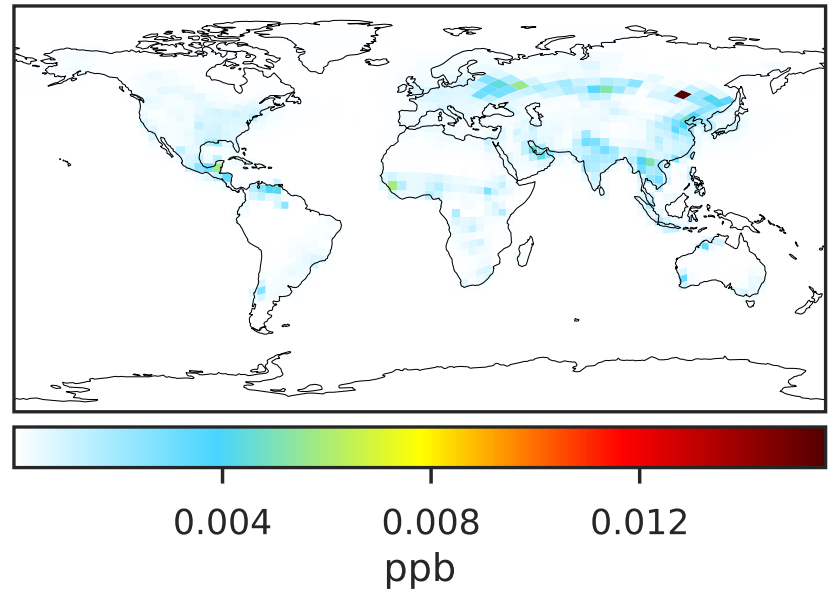


SpeciesConcVV_NPHEN (Apr2019)

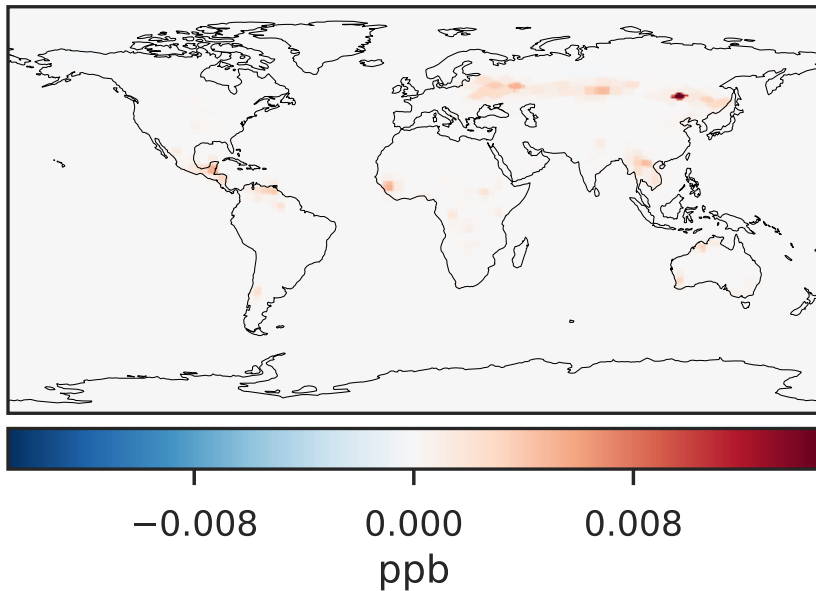
GCHP_14.0.0 (Ref)
c24



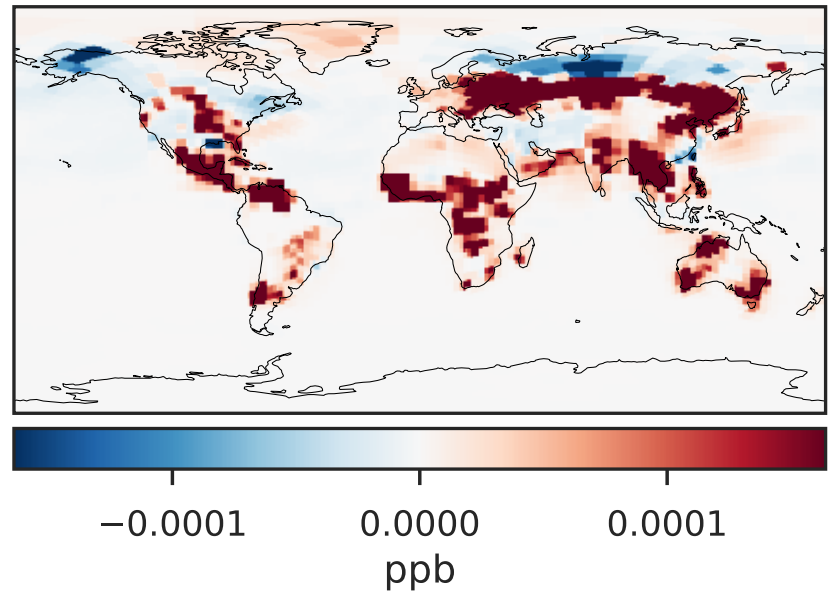
GCHP_14.2.0 (Dev)
c24



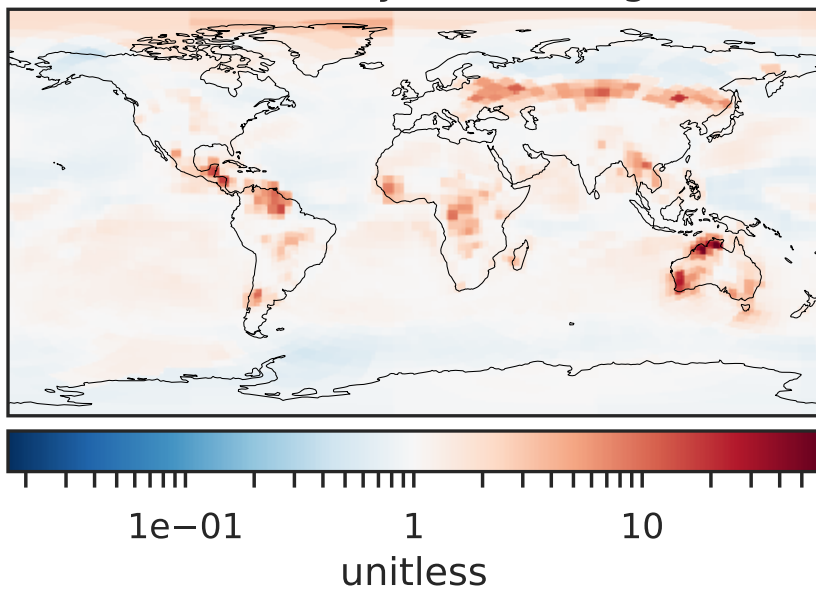
Difference (1x1.25)
Dev - Ref, Dynamic Range



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



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



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

