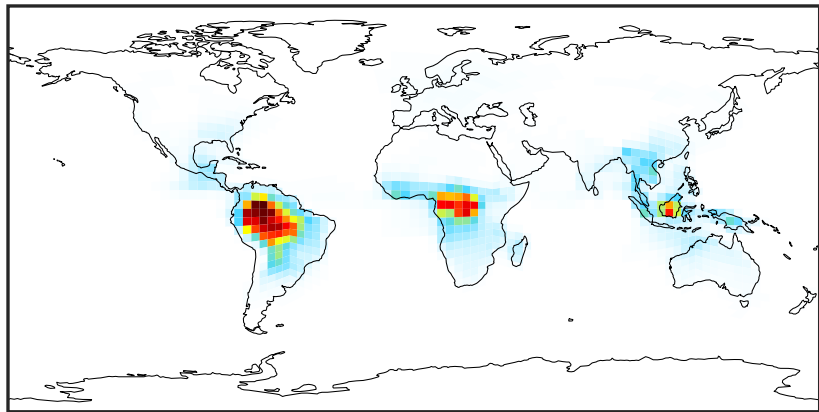


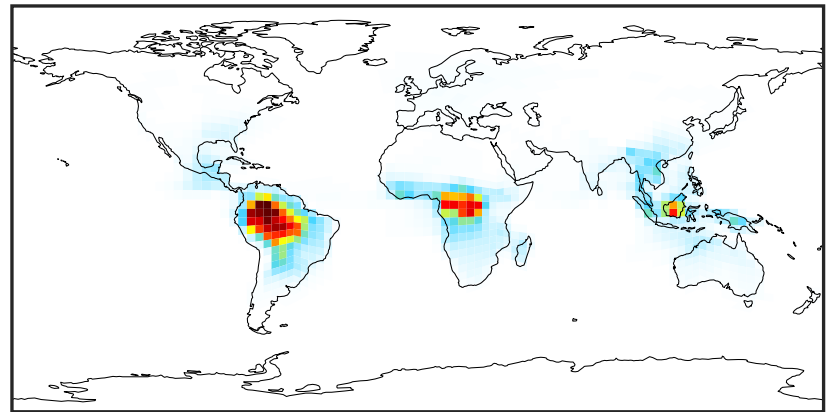
SpeciesConcVV_TSOA0 (Apr2019)

GCHP_14.0.0 (Ref)
c24



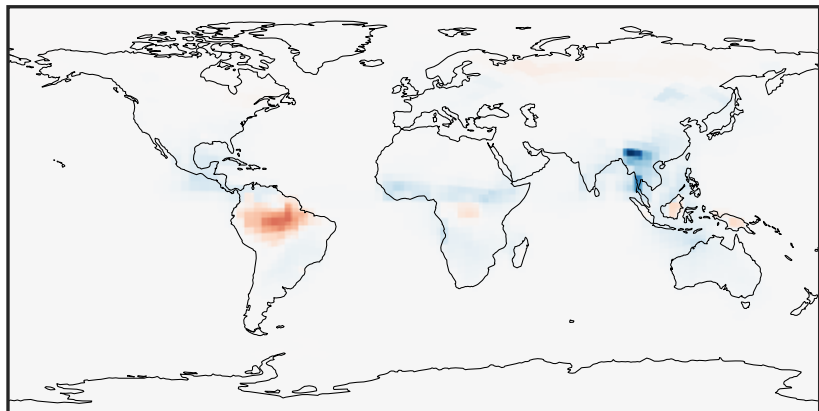
0.000 0.509 1.019 1.528 2.037
 $\mu\text{g}/\text{m}^3$

GCHP_14.2.0 (Dev)
c24



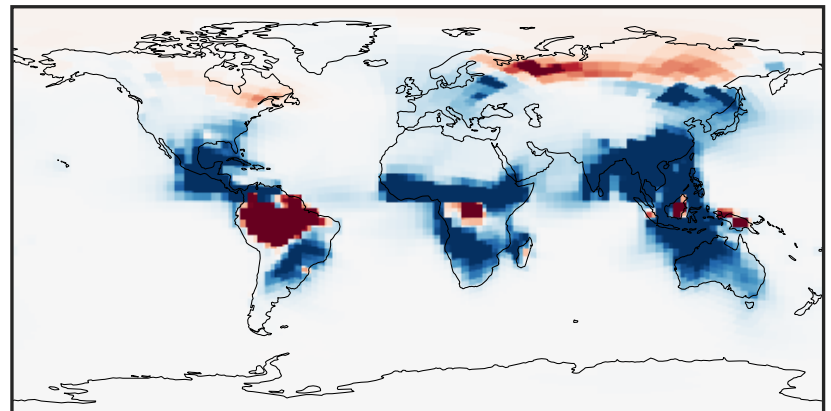
0.000 0.509 1.019 1.528 2.037
 $\mu\text{g}/\text{m}^3$

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



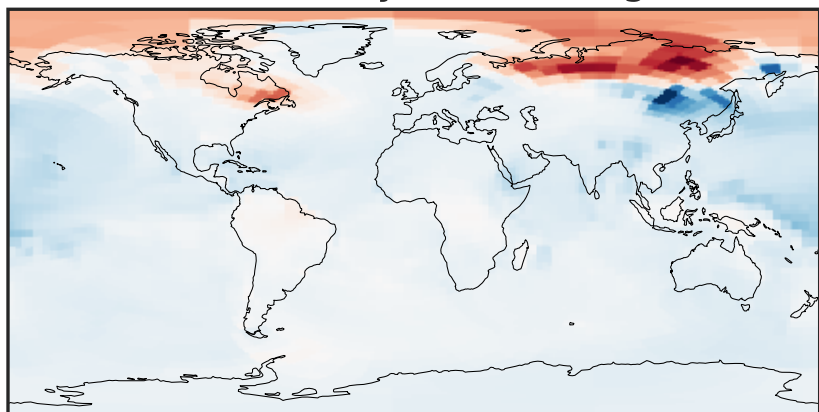
-0.056 -0.028 0.000 0.028 0.056
 $\mu\text{g}/\text{m}^3$

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



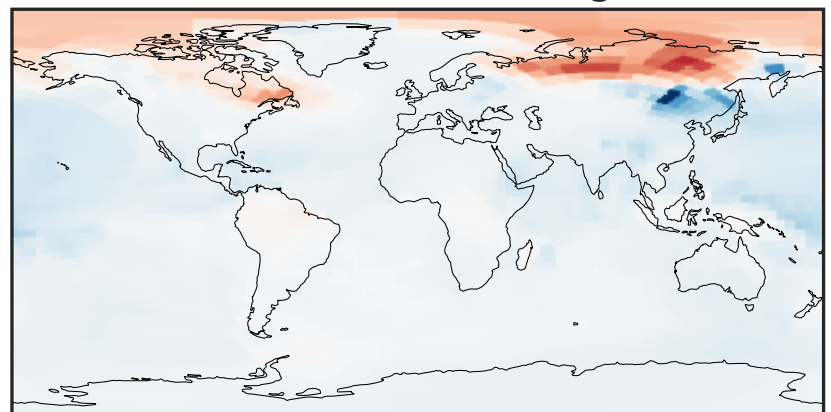
-0.002 0.000 0.002
 $\mu\text{g}/\text{m}^3$

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



0.592 0.796 1.000 1.345 1.690
unitless

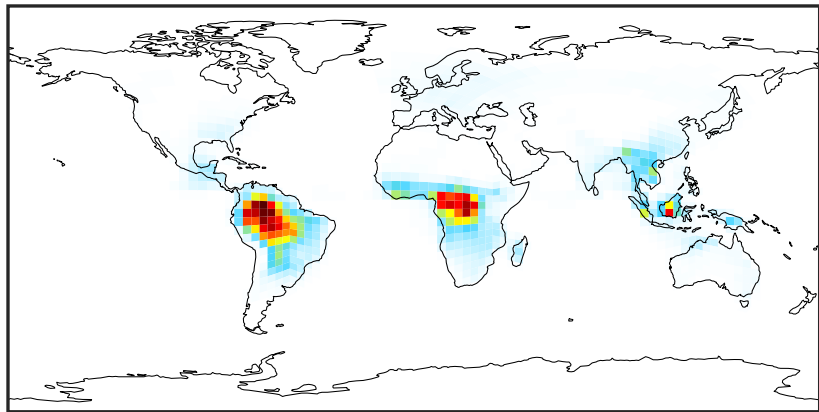
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

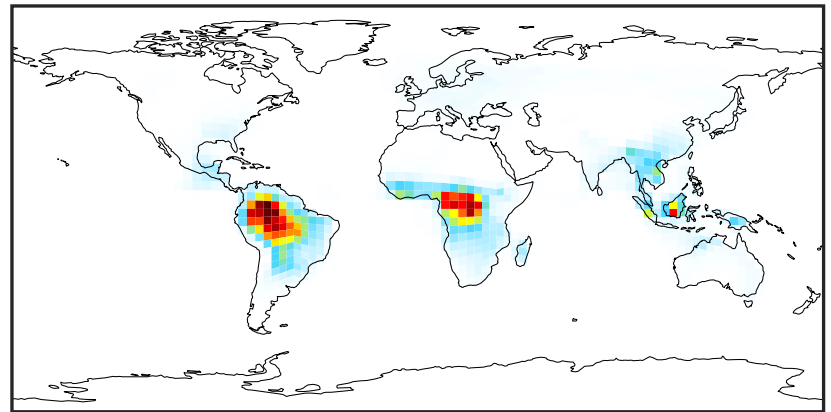
SpeciesConcVV_TSOA1 (Apr2019)

GCHP_14.0.0 (Ref)
c24



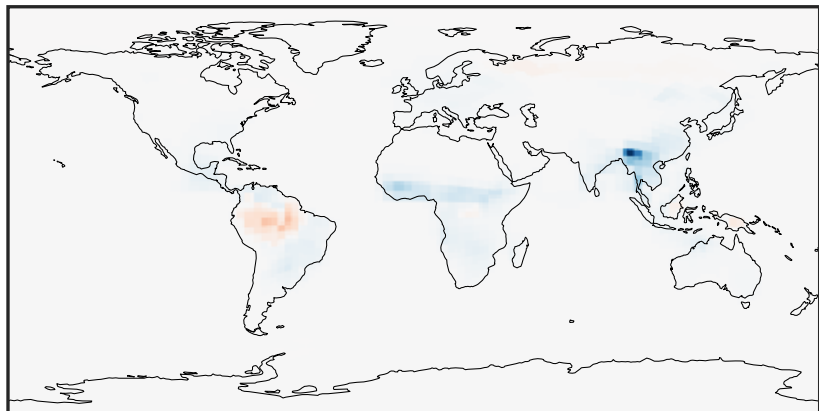
0.0000 0.1969 0.3937 0.5906 0.7874
µg/m3

GCHP_14.2.0 (Dev)
c24



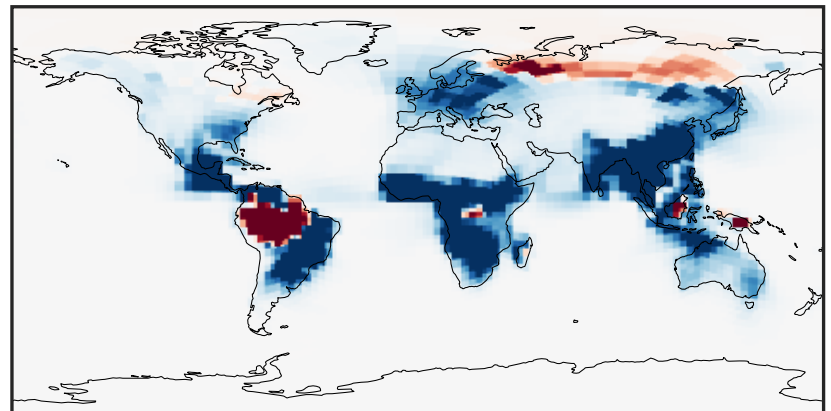
0.0000 0.1969 0.3937 0.5906 0.7874
µg/m3

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



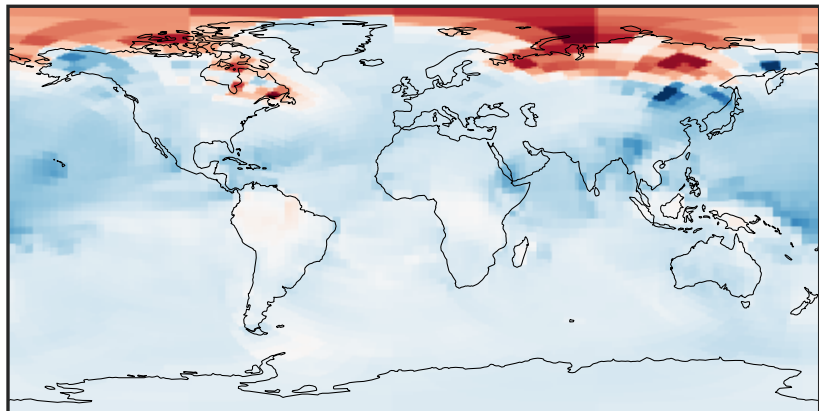
-0.025 0.000 0.025
µg/m3

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



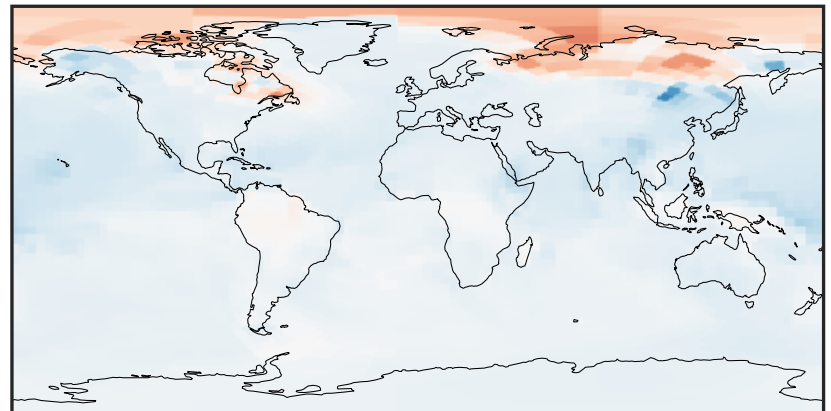
-0.0008 0.0000 0.0008
µg/m3

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



0.7108 0.8554 1.0000 1.2035 1.4070
unitless

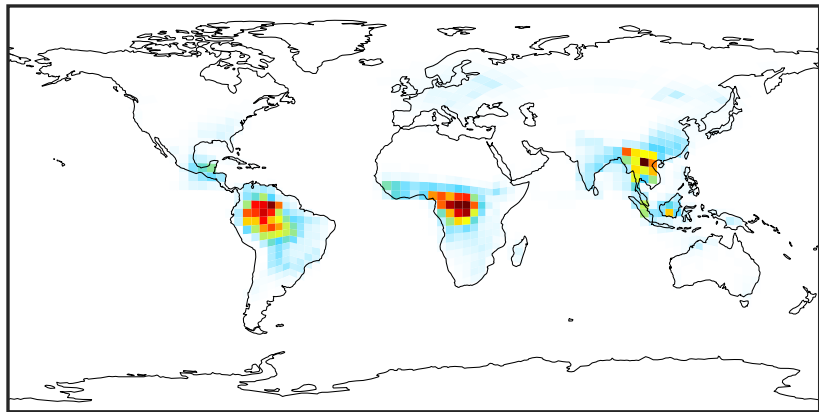
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

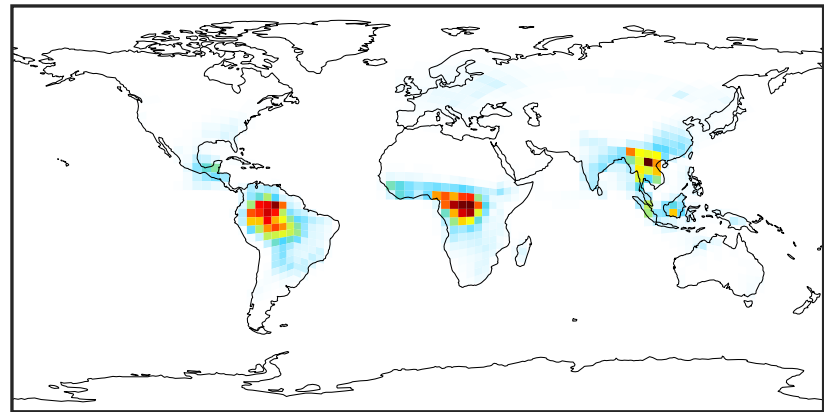
SpeciesConcVV_TSOA2 (Apr2019)

GCHP_14.0.0 (Ref)
c24



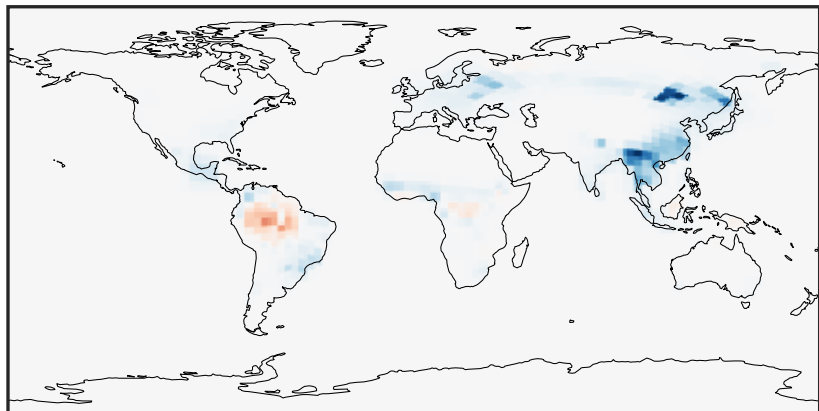
0.000 0.665 1.331 1.996 2.662
µg/m3

GCHP_14.2.0 (Dev)
c24



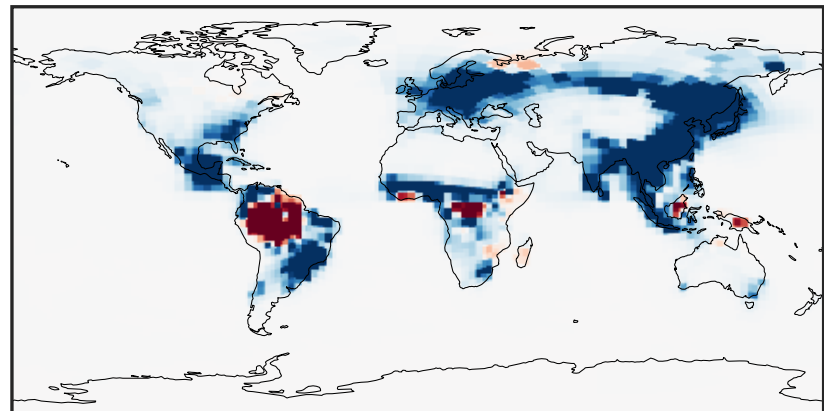
0.000 0.665 1.331 1.996 2.662
µg/m3

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



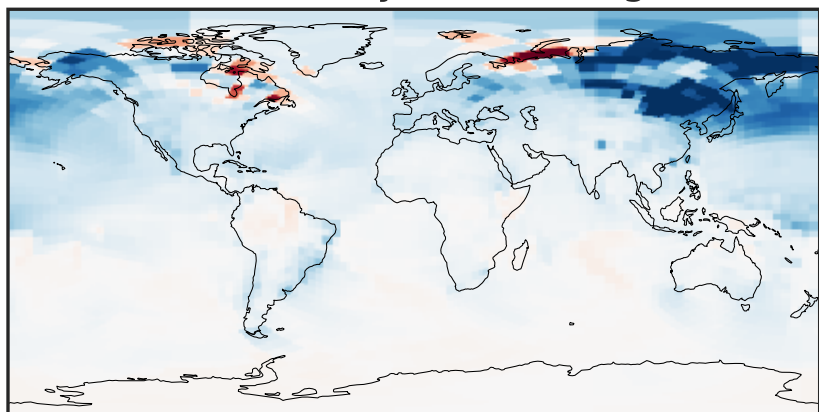
-0.0875 -0.0437 0.0000 0.0437 0.0875
µg/m3

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



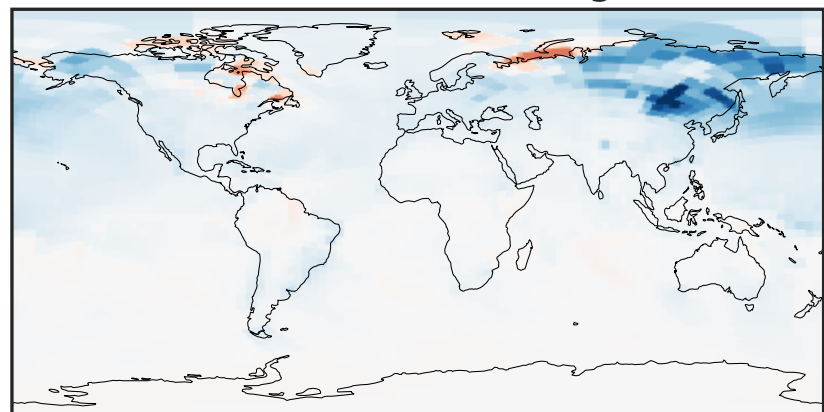
-0.0025 0.0000 0.0025
µg/m3

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



0.6937 0.8468 1.0000 1.2208 1.4416
unitless

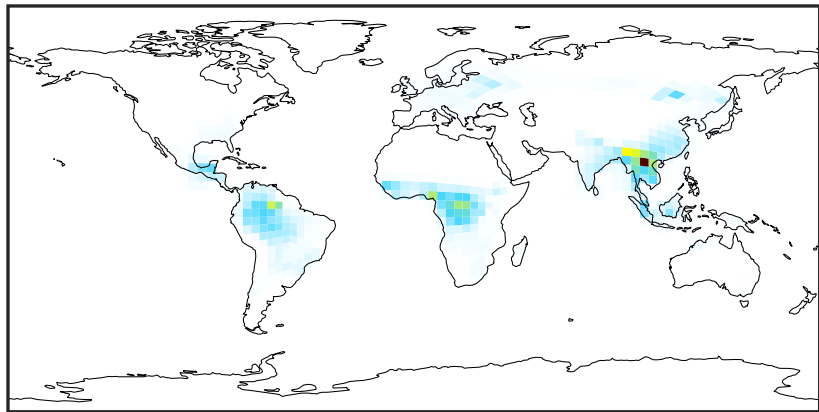
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

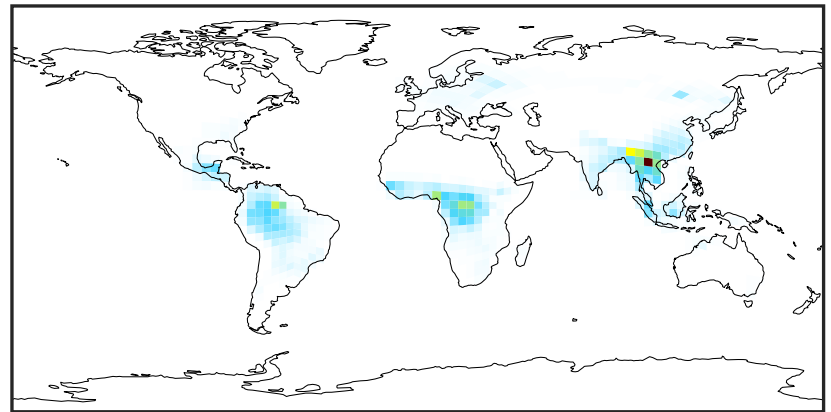
SpeciesConcVV_TSOA3 (Apr2019)

GCHP_14.0.0 (Ref)
c24



0.000 0.425 0.849 1.274 1.698
 $\mu\text{g}/\text{m}^3$

GCHP_14.2.0 (Dev)
c24



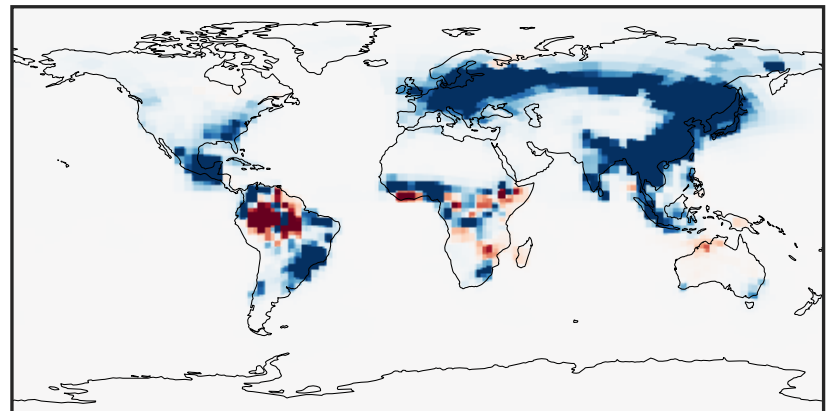
0.000 0.425 0.849 1.274 1.698
 $\mu\text{g}/\text{m}^3$

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



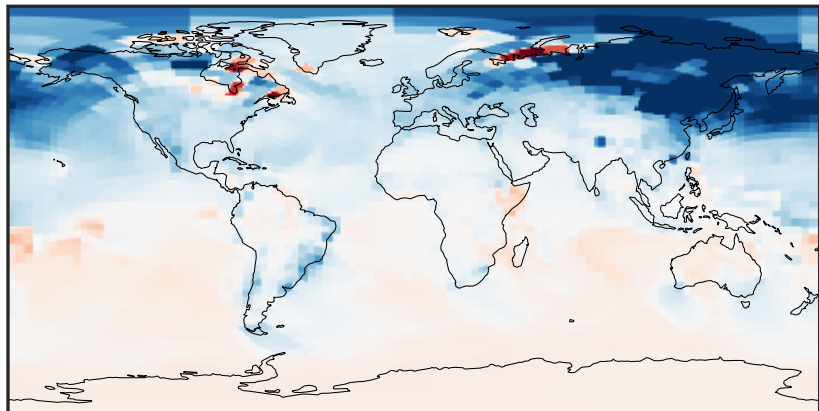
-0.1297 -0.0648 0.0000 0.0648 0.1297
 $\mu\text{g}/\text{m}^3$

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



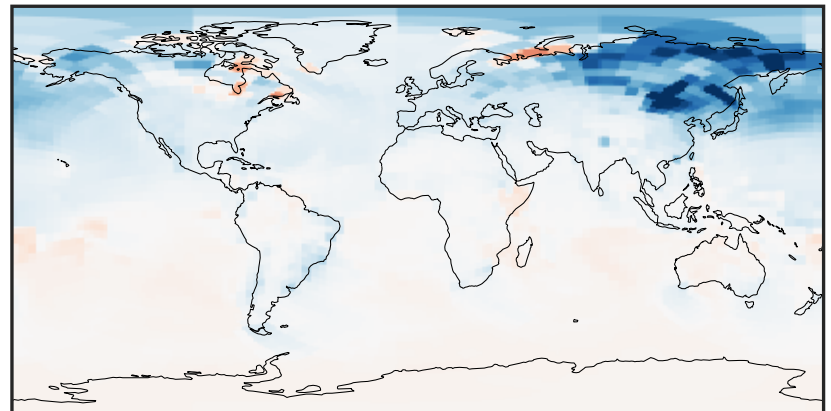
-0.001 0.000 0.001
 $\mu\text{g}/\text{m}^3$

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



0.7155 0.8577 1.0000 1.1988 1.3977
unitless

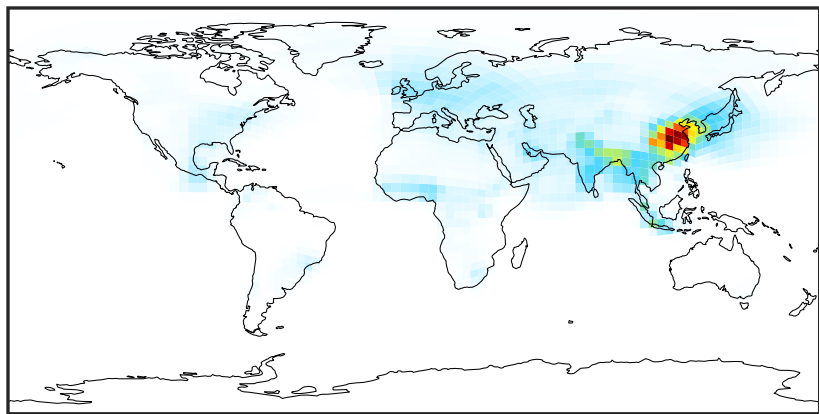
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

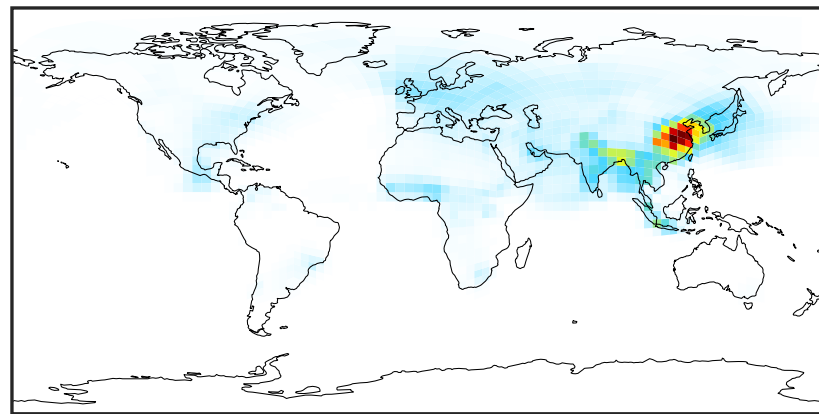
SpeciesConcVV_ASOA1 (Apr2019)

GCHP_14.0.0 (Ref)
c24



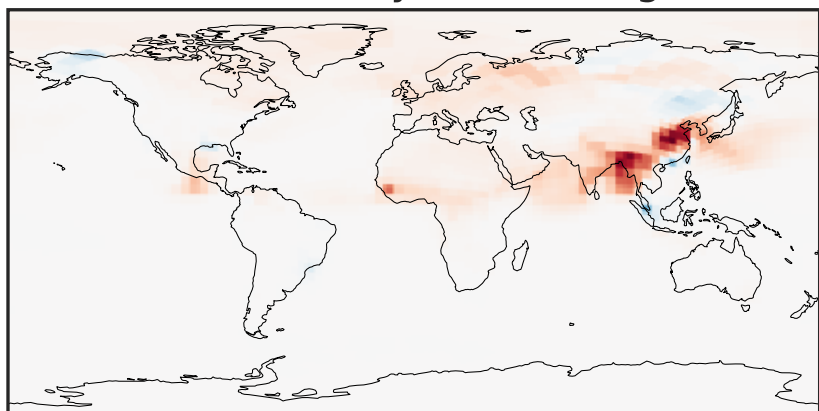
0.0000 0.0356 0.0712 0.1068 0.1424 $\mu\text{g}/\text{m}^3$

GCHP_14.2.0 (Dev)
c24



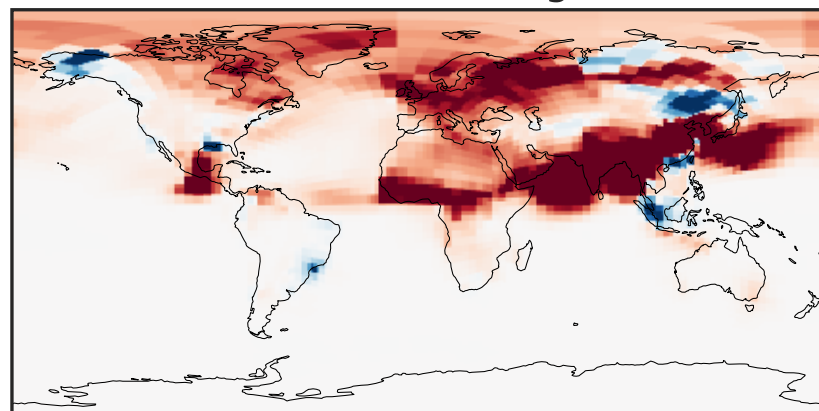
0.0000 0.0356 0.0712 0.1068 0.1424 $\mu\text{g}/\text{m}^3$

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



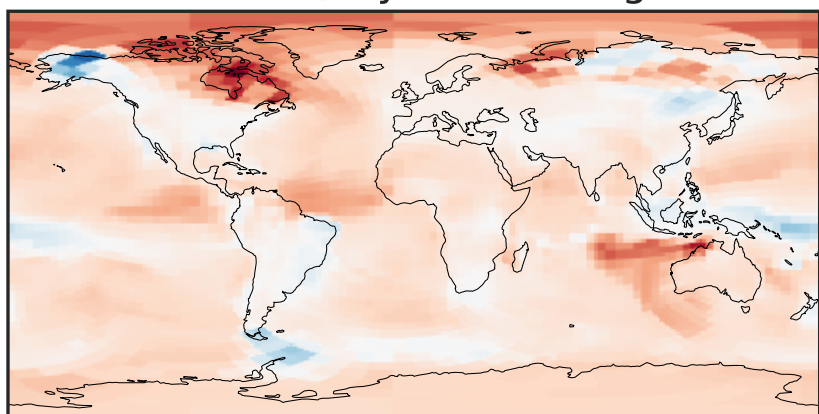
-0.003 0.000 0.003 $\mu\text{g}/\text{m}^3$

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



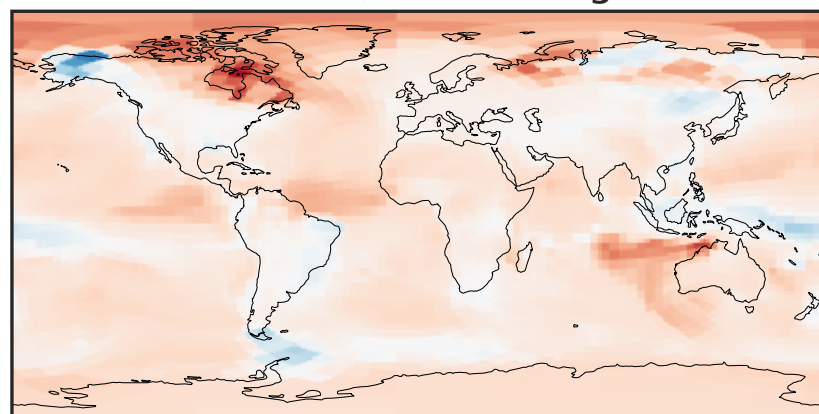
-0.0004 0.0000 0.0004 $\mu\text{g}/\text{m}^3$

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



0.558 0.779 1.000 1.396 1.791 unitless

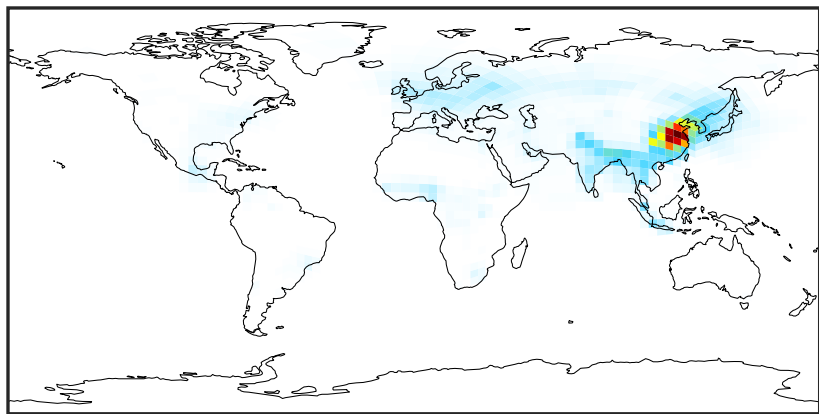
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00 unitless

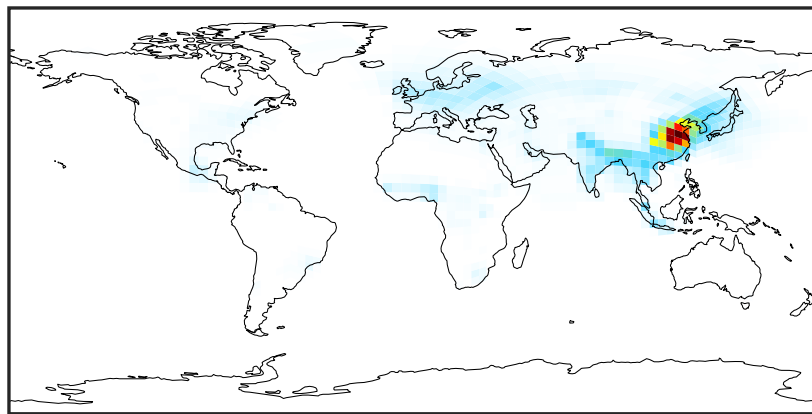
SpeciesConcVV_ASOA2 (Apr2019)

GCHP_14.0.0 (Ref)
c24



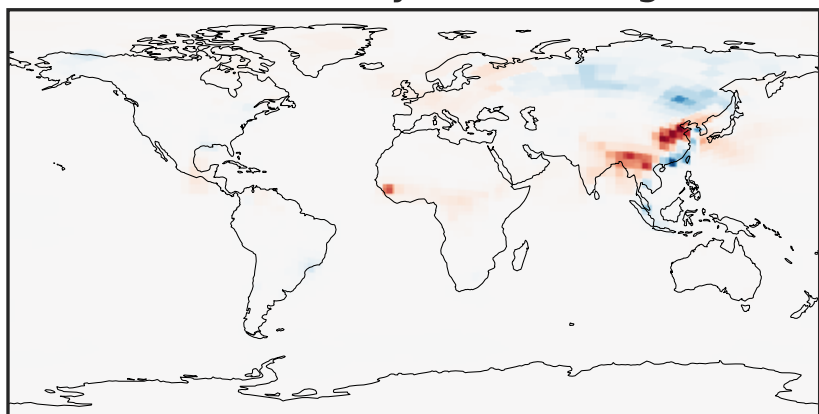
0.0000 0.0302 0.0604 0.0906 0.1208
 $\mu\text{g}/\text{m}^3$

GCHP_14.2.0 (Dev)
c24



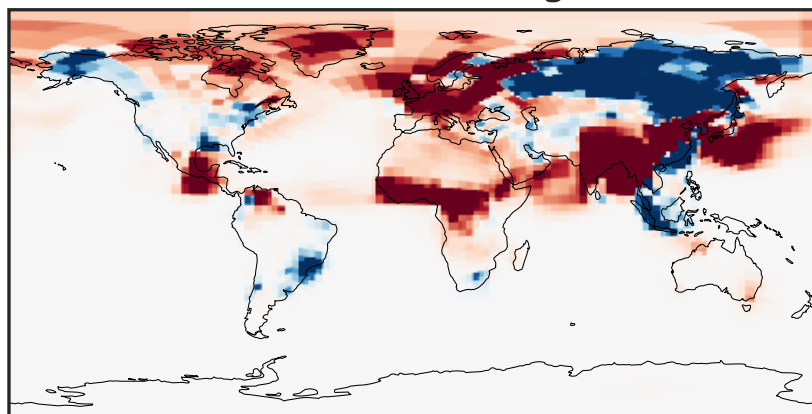
0.0000 0.0302 0.0604 0.0906 0.1208
 $\mu\text{g}/\text{m}^3$

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



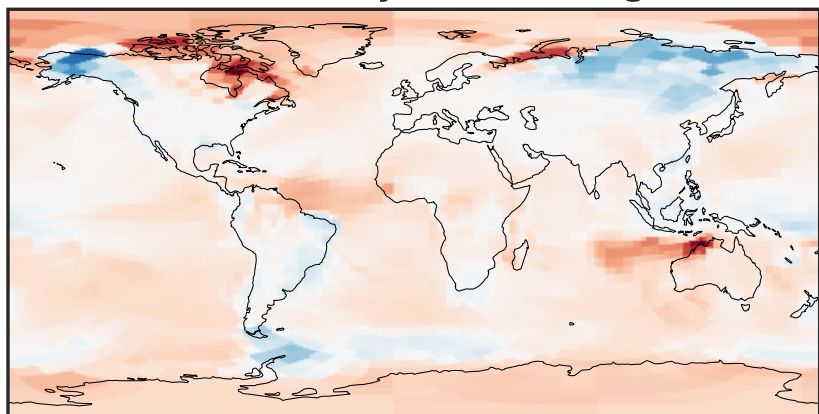
-0.0015 0.0000 0.0015
 $\mu\text{g}/\text{m}^3$

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



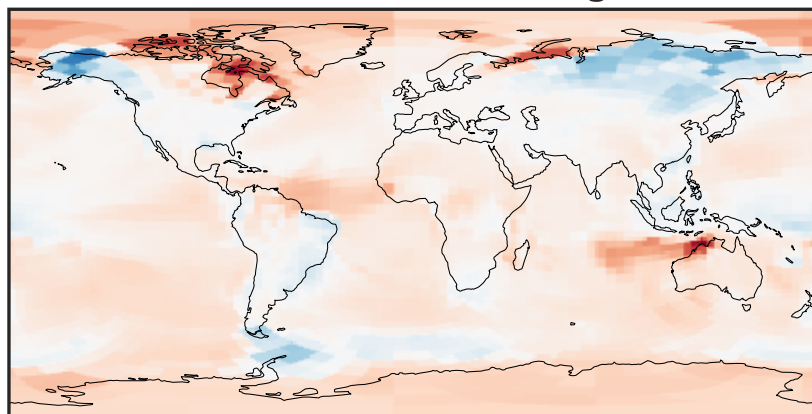
-5 0 5
 $\mu\text{g}/\text{m}^3$ $1\text{e}-5$

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



0.526 0.763 1.000 1.450 1.900
unitless

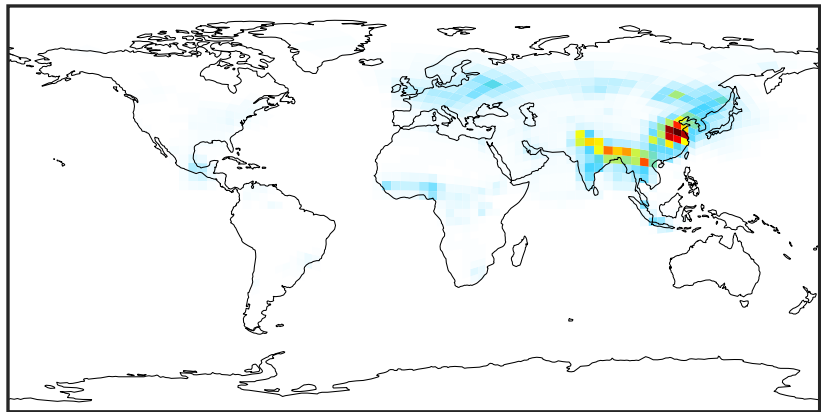
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

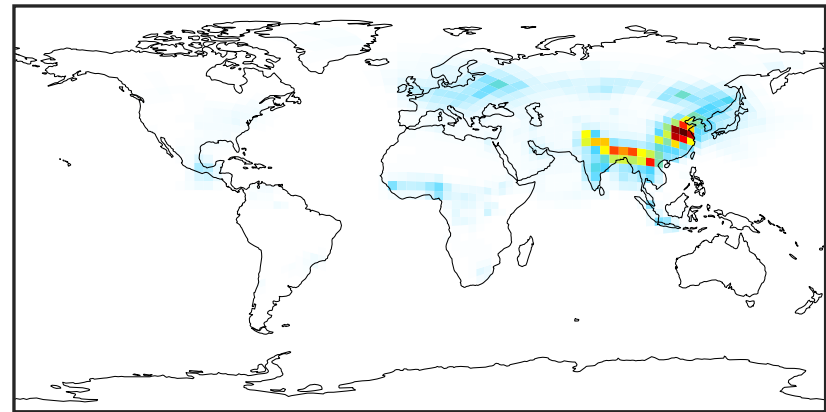
SpeciesConcVV_ASOA3 (Apr2019)

GCHP_14.0.0 (Ref)
c24



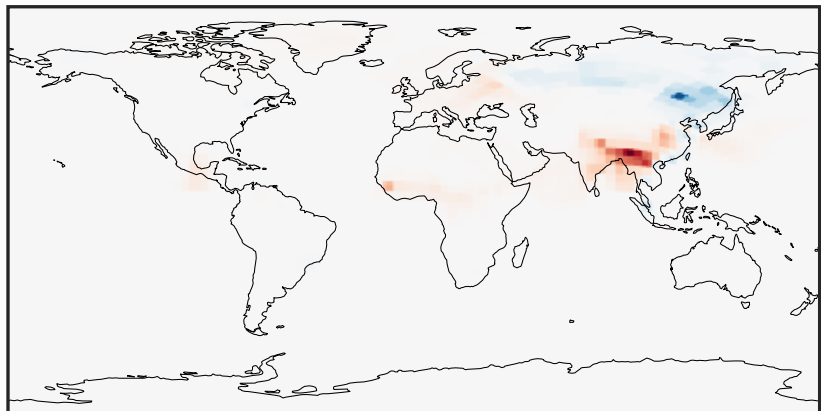
0.02 0.04 0.06
µg/m3

GCHP_14.2.0 (Dev)
c24



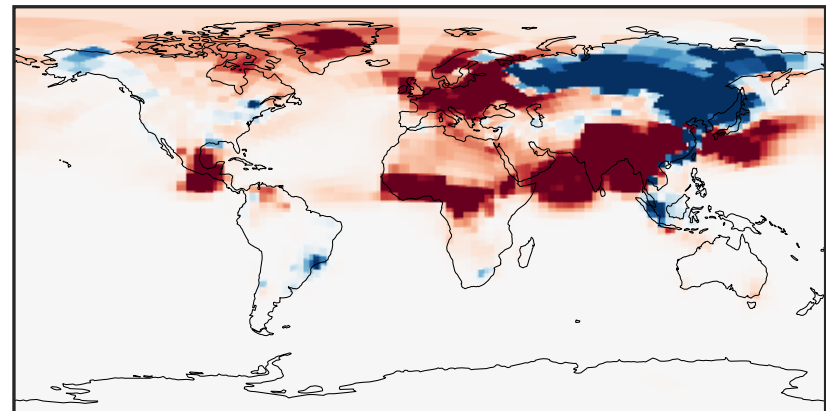
0.02 0.04 0.06
µg/m3

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



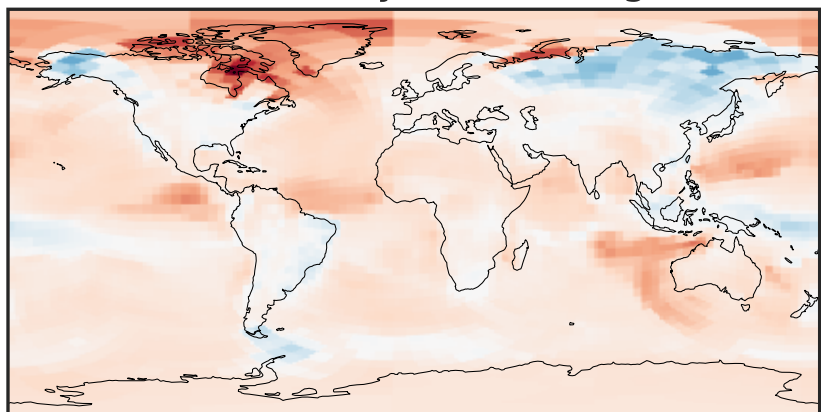
-0.003 0.000 0.003
µg/m3

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



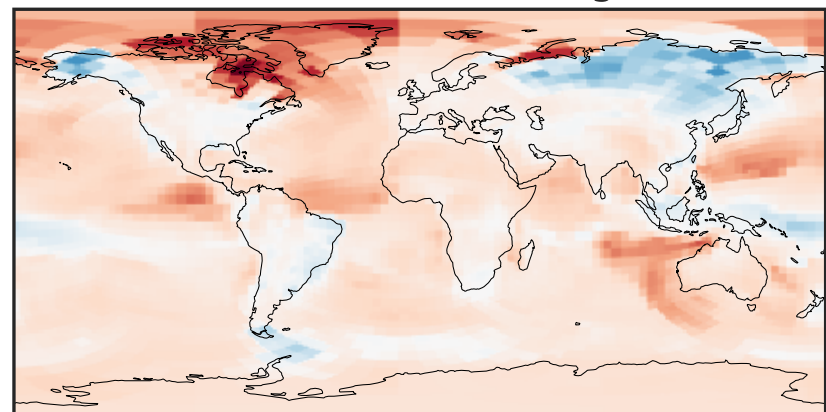
-6 0 6
µg/m3 1e-5

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



0.444 0.722 1.000 1.626 2.252
unitless

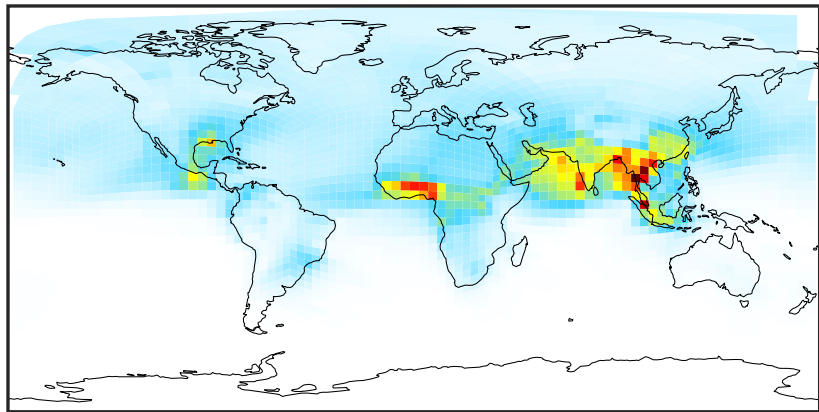
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

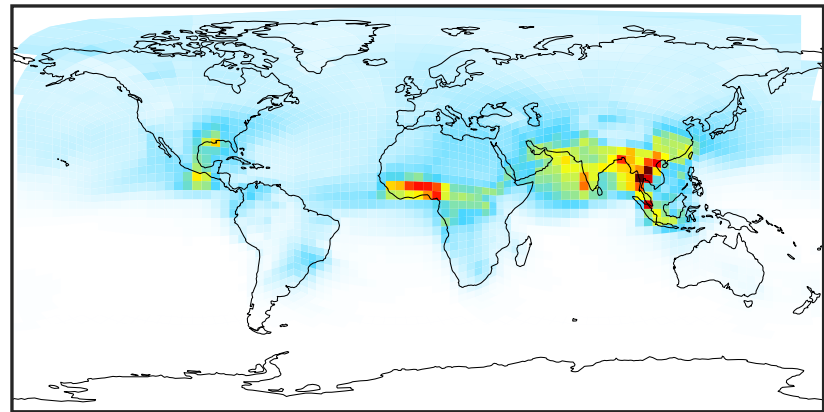
SpeciesConcVV_ASOAN (Apr2019)

GCHP_14.0.0 (Ref)
c24



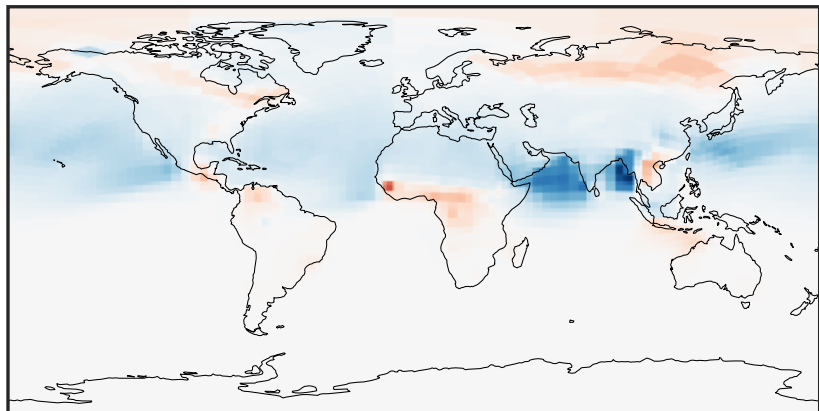
0.0002 0.0668 0.1336 0.2004 0.2674
µg/m3

GCHP_14.2.0 (Dev)
c24



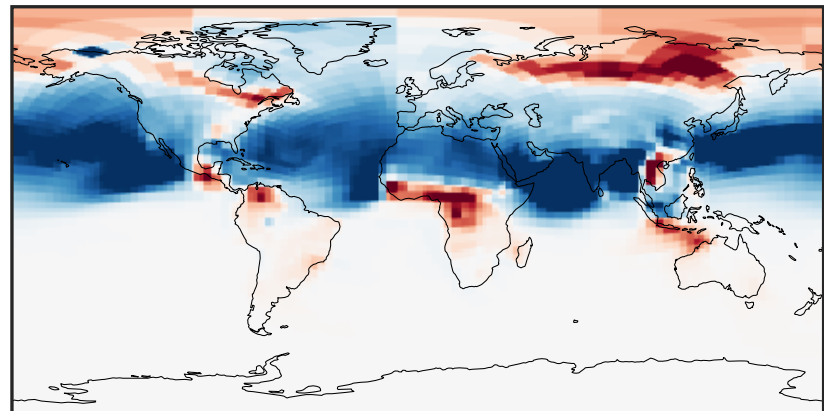
0.0002 0.0668 0.1336 0.2004 0.2674
µg/m3

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



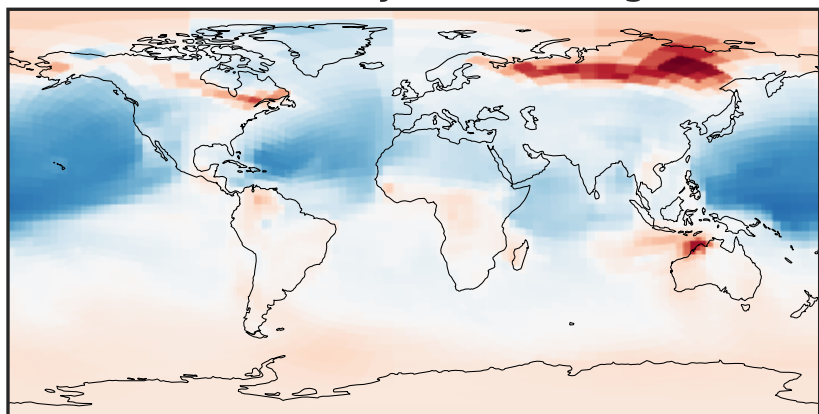
-0.015 0.000 0.015
µg/m3

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



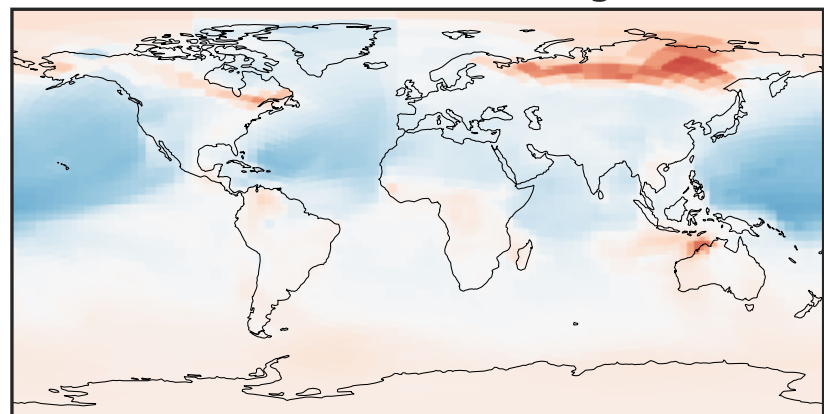
-0.003 0.000 0.003
µg/m3

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



0.6329 0.8165 1.0000 1.2900 1.5800
unitless

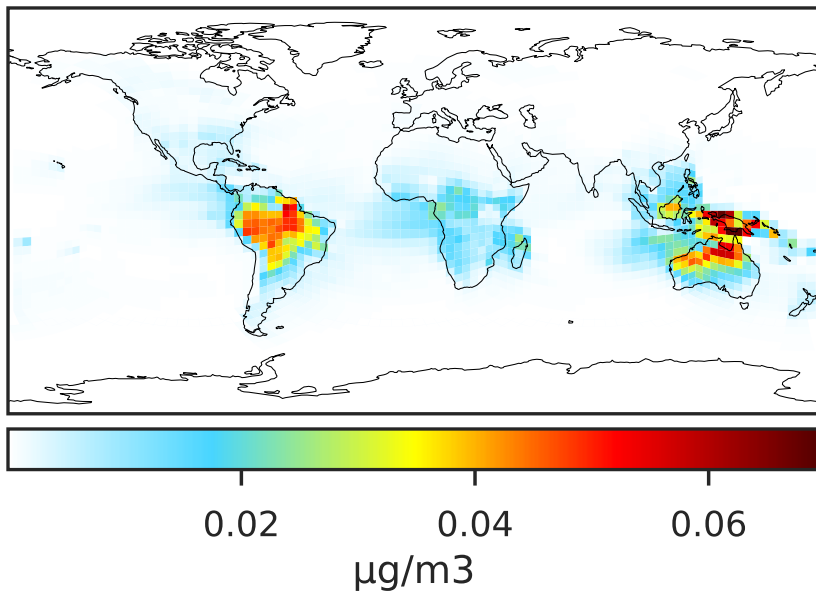
Ratio (1x1.25)
Dev/Ref, Fixed Range



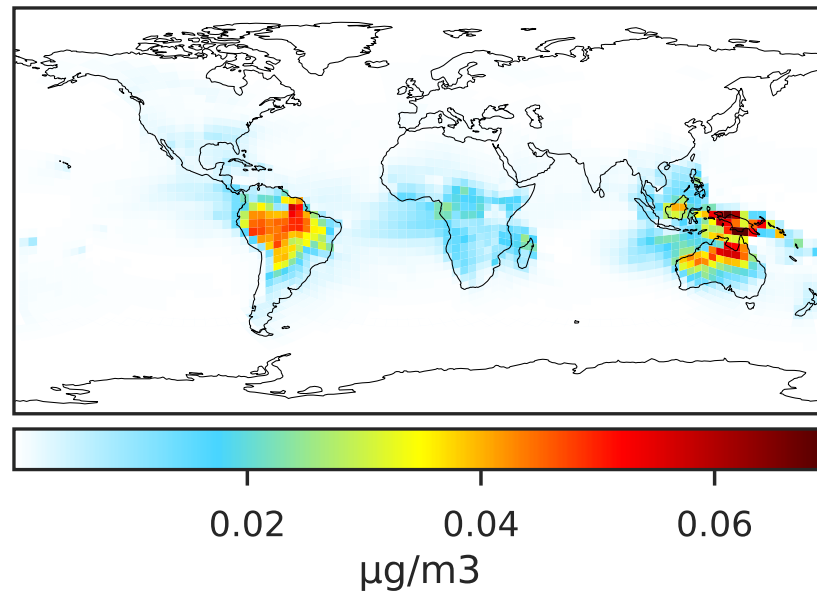
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_TSOG0 (Apr2019)

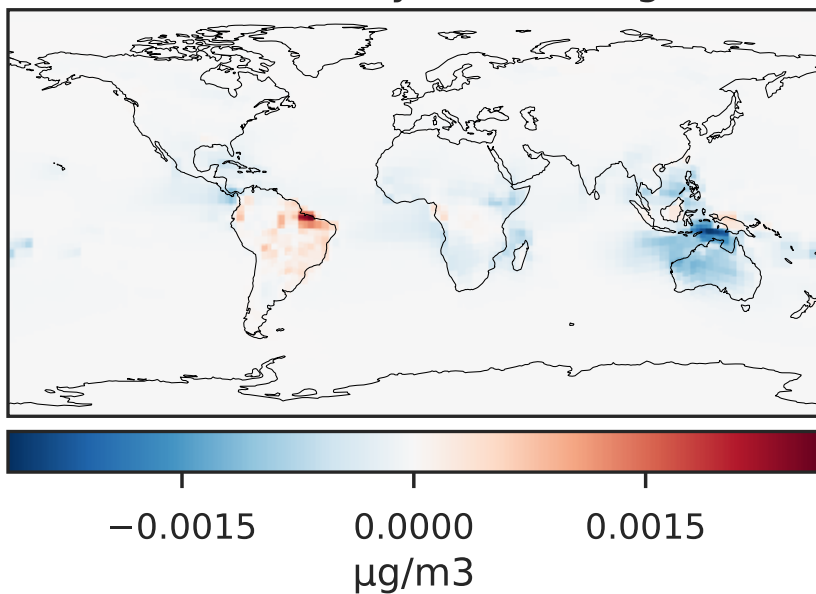
GCHP_14.0.0 (Ref)
c24



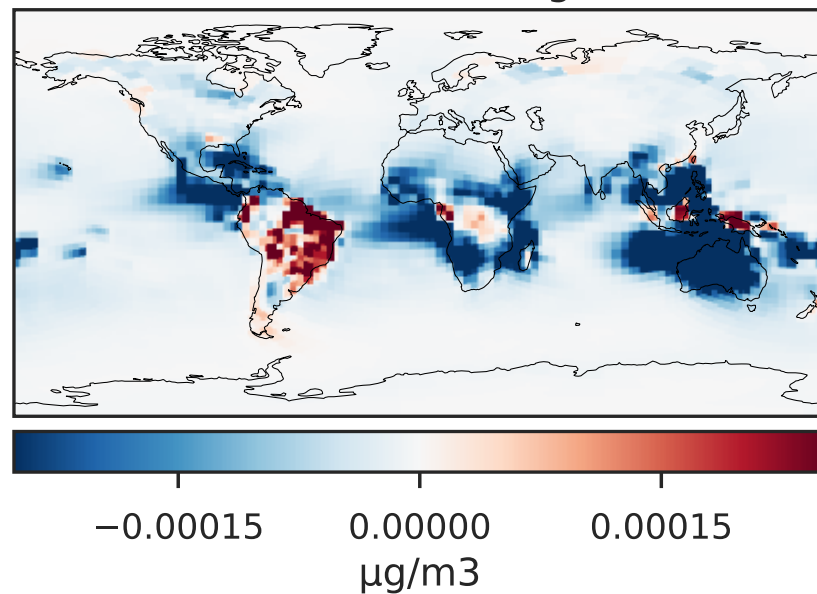
GCHP_14.2.0 (Dev)
c24



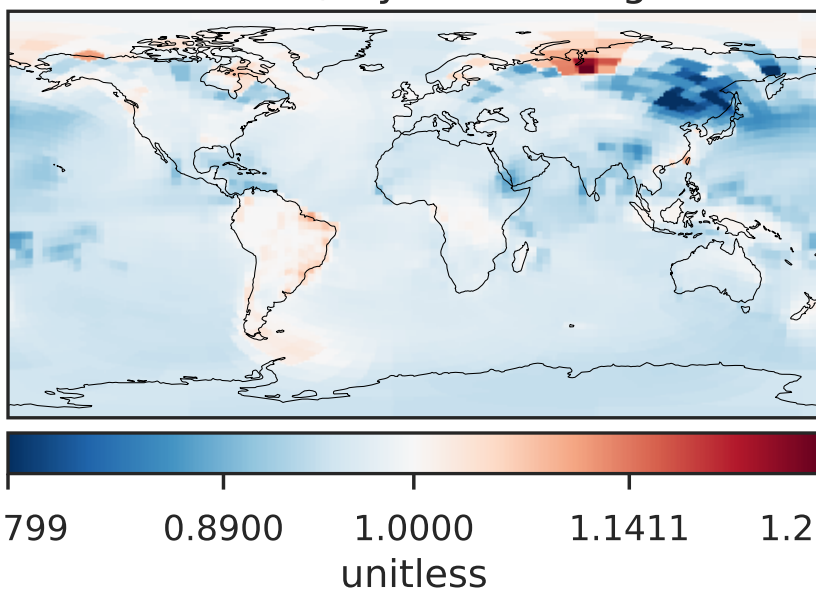
Difference (1x1.25)
Dev - Ref, Dynamic Range



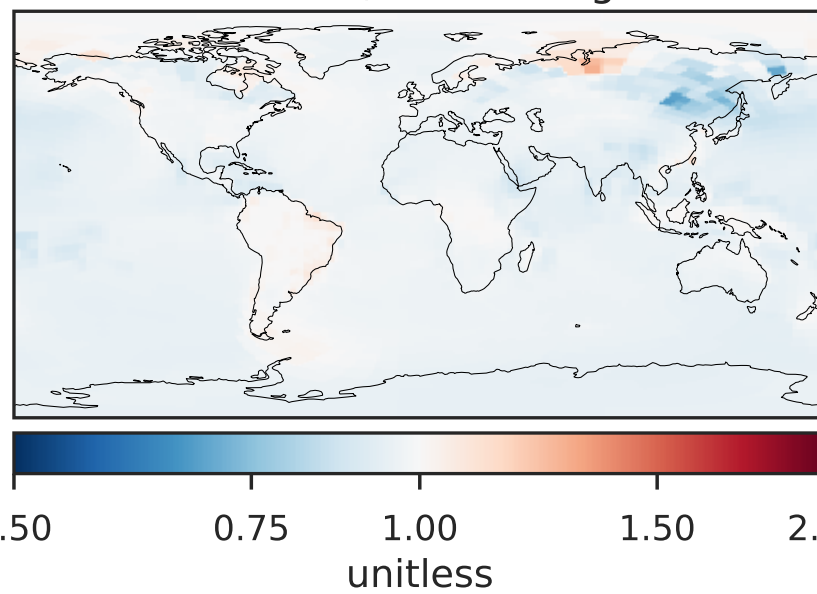
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

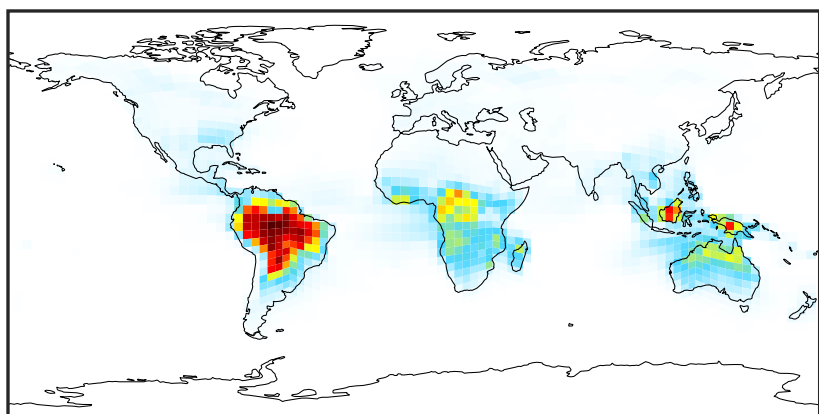


Ratio (1x1.25)
Dev/Ref, Fixed Range



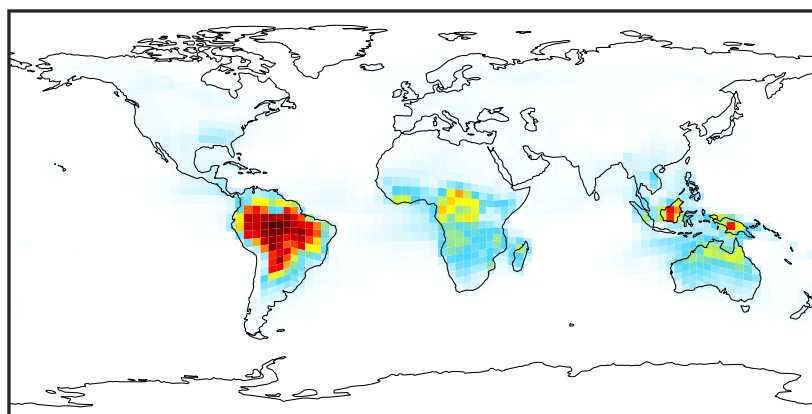
SpeciesConcVV_TSOG1 (Apr2019)

GCHP_14.0.0 (Ref)
c24



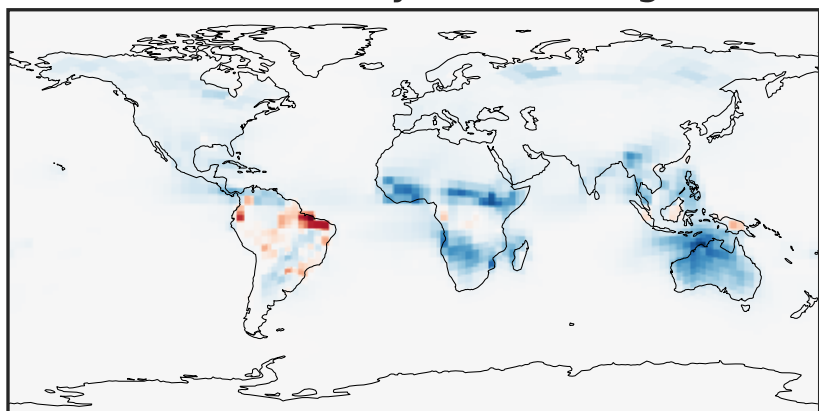
0.0000 0.0398 0.0797 0.1195 0.1594
µg/m3

GCHP_14.2.0 (Dev)
c24



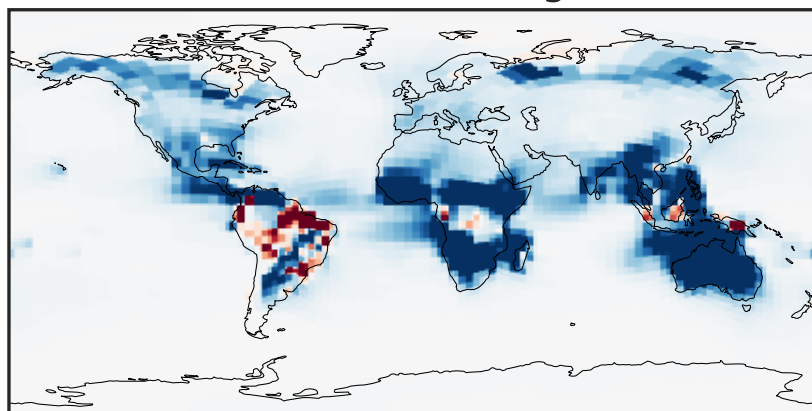
0.0000 0.0398 0.0797 0.1195 0.1594
µg/m3

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



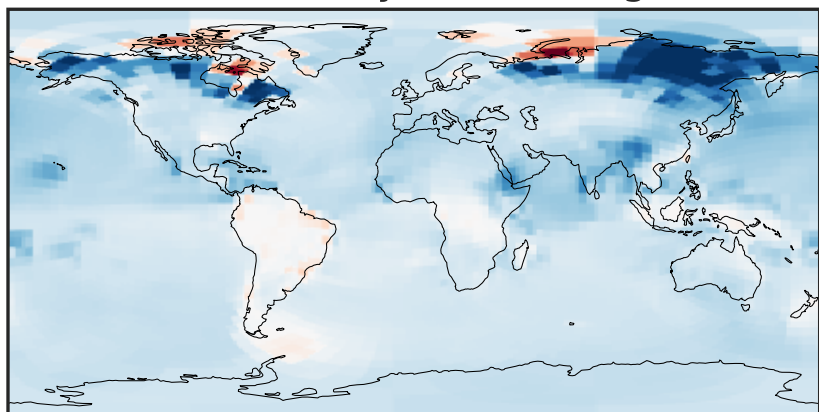
-0.002 0.000 0.002
µg/m3

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



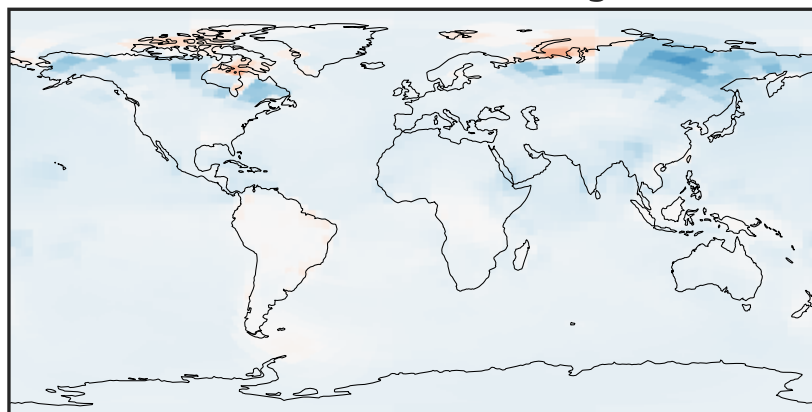
-0.0004 0.0000 0.0004
µg/m3

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



0.7719 0.8859 1.0000 1.1478 1.2956
unitless

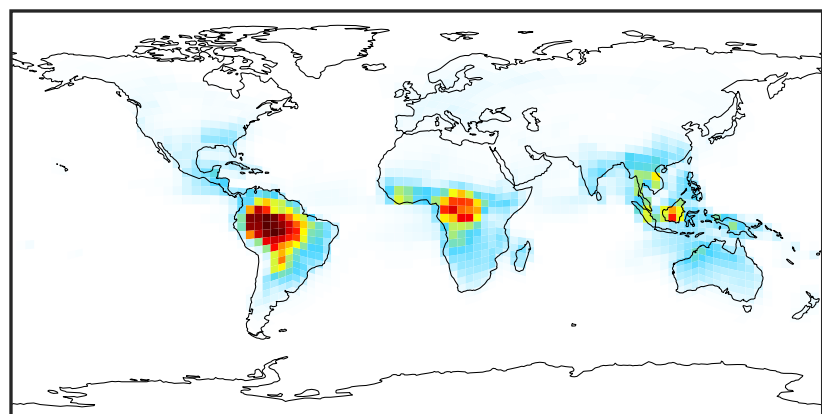
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

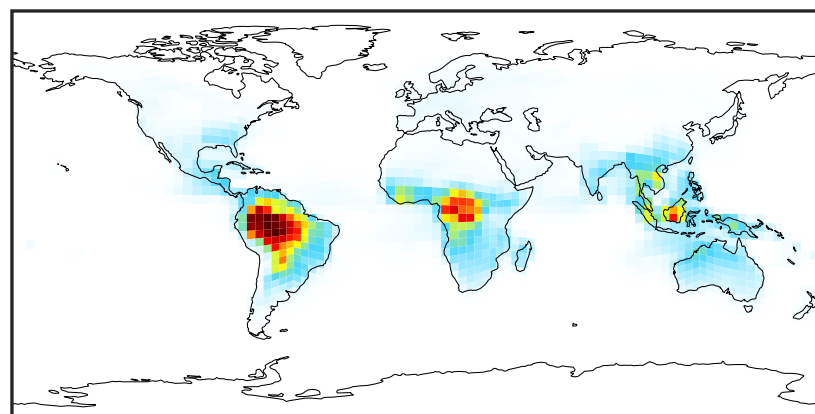
SpeciesConcVV_TSOG2 (Apr2019)

GCHP_14.0.0 (Ref)
c24



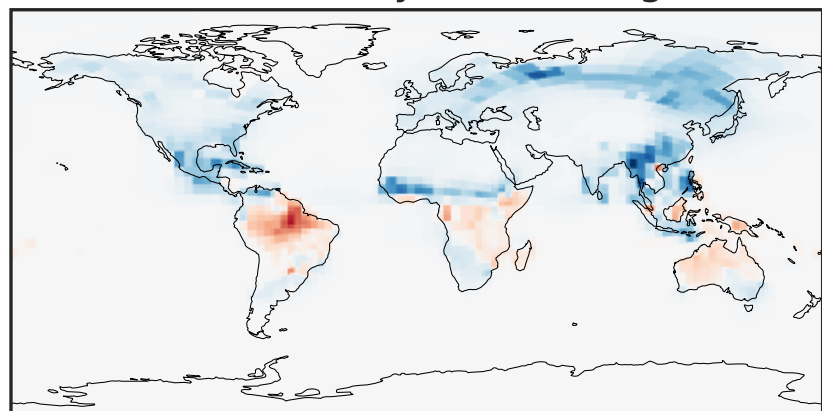
0.00 0.86 1.72 2.58 3.44
µg/m3

GCHP_14.2.0 (Dev)
c24



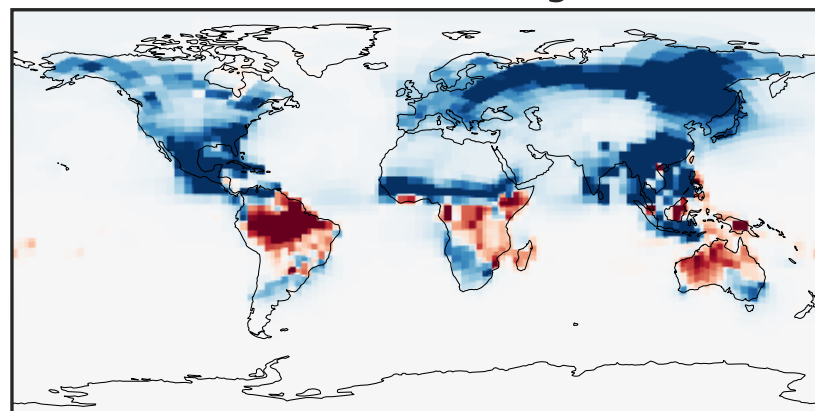
0.00 0.86 1.72 2.58 3.44
µg/m3

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



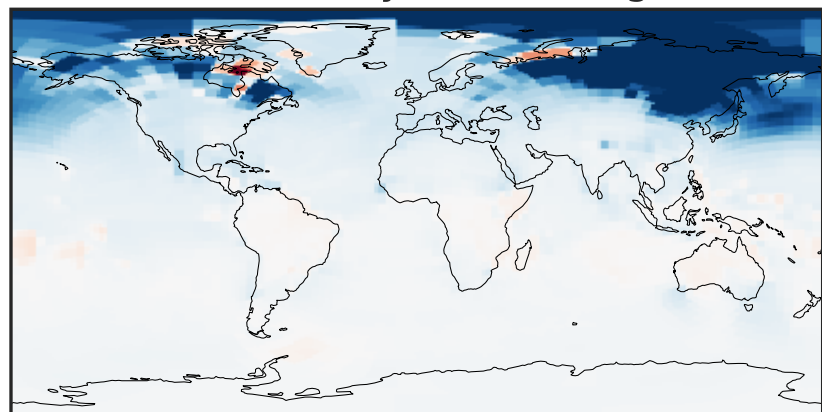
-0.02 0.00 0.02
µg/m3

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



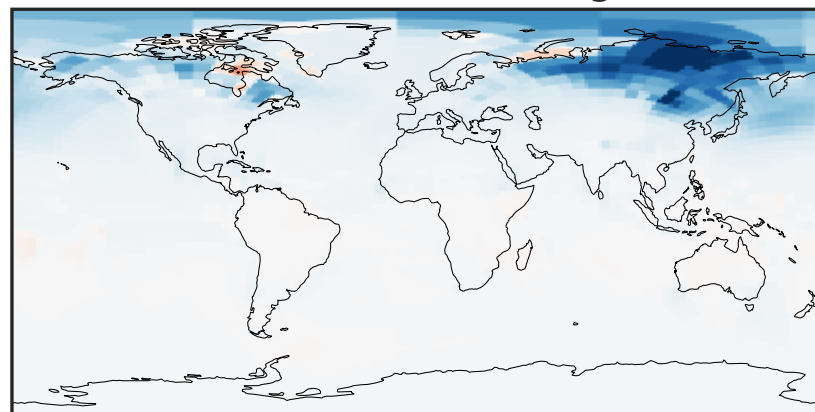
-0.005 0.000 0.005
µg/m3

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



0.7273 0.8637 1.0000 1.1874 1.3749
unitless

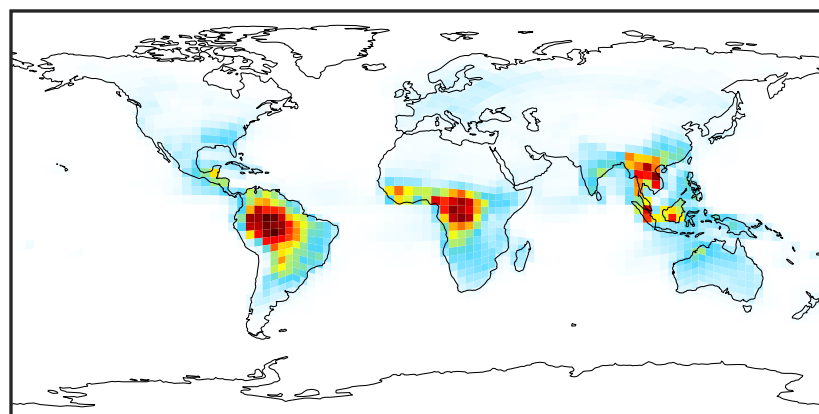
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

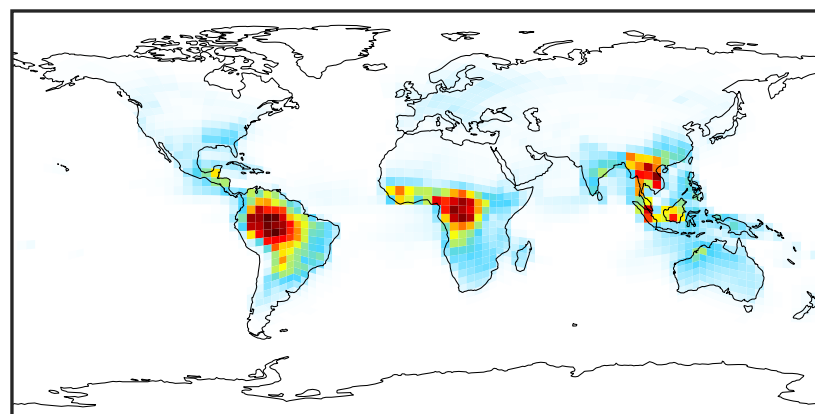
SpeciesConcVV_TSOG3 (Apr2019)

GCHP_14.0.0 (Ref)
c24



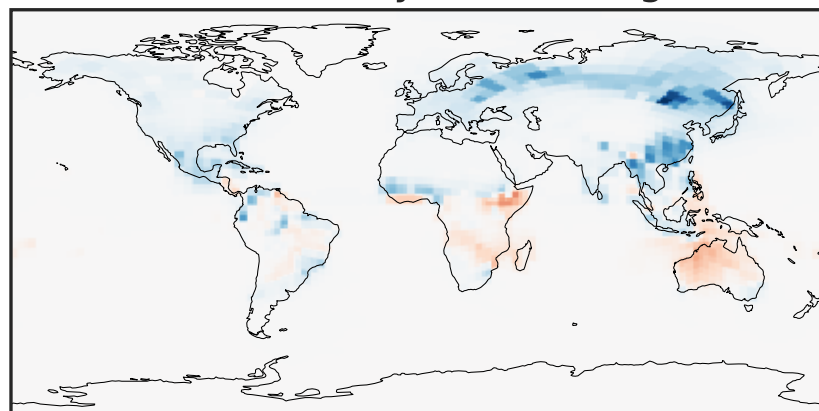
0.000 1.486 2.972 4.458 5.945
µg/m3

GCHP_14.2.0 (Dev)
c24



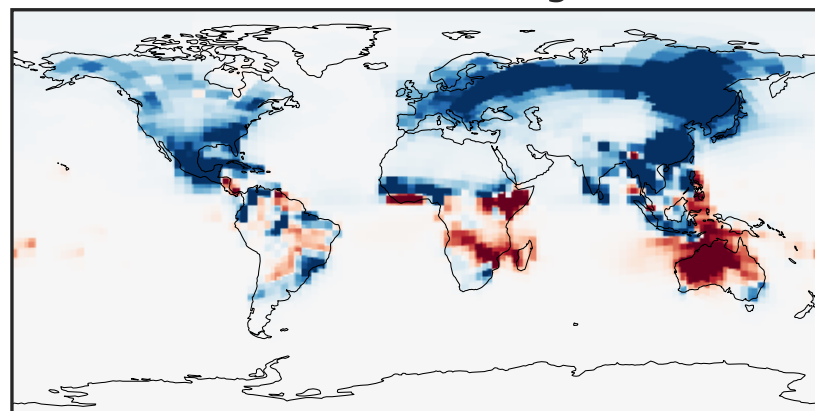
0.000 1.486 2.972 4.458 5.945
µg/m3

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



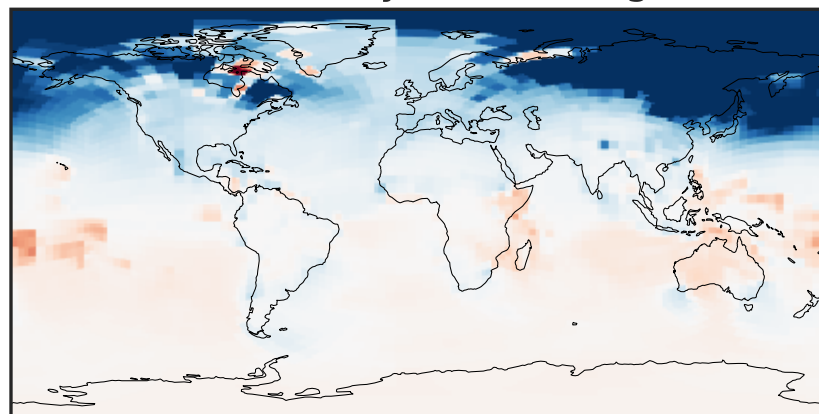
-0.1759 -0.0879 0.0000 0.0879 0.1759
µg/m3

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



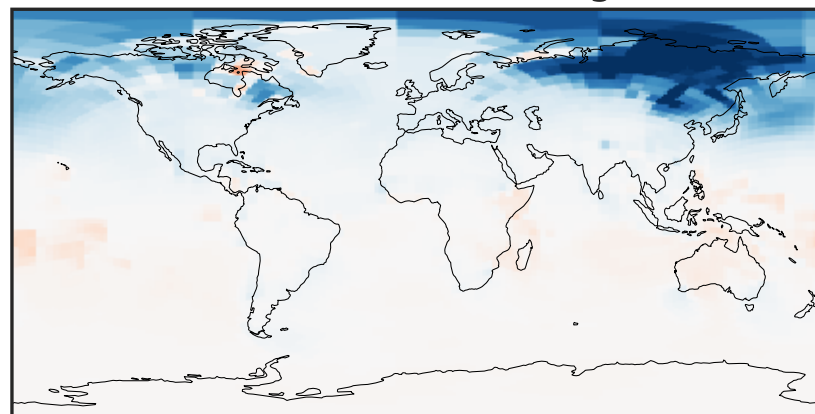
-0.015 0.000 0.015
µg/m3

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



0.7493 0.8746 1.0000 1.1673 1.3346
unitless

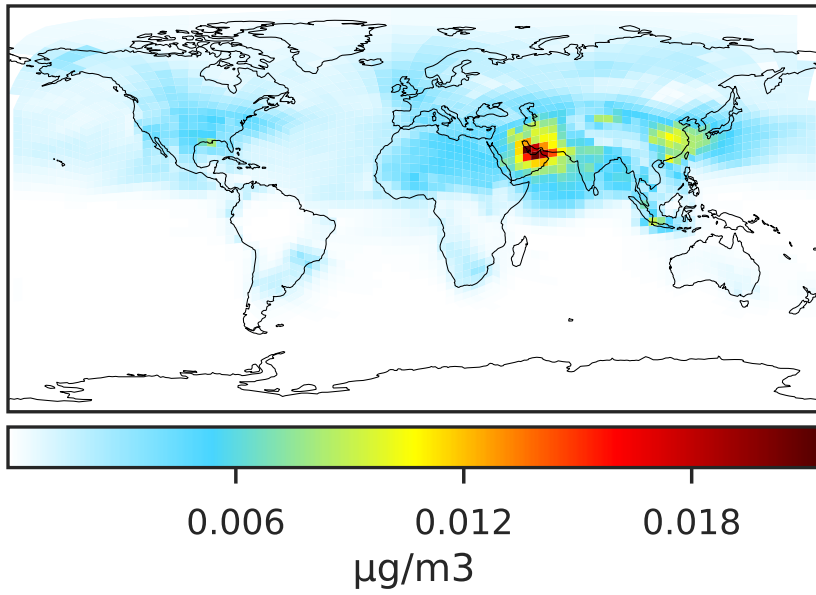
Ratio (1x1.25)
Dev/Ref, Fixed Range



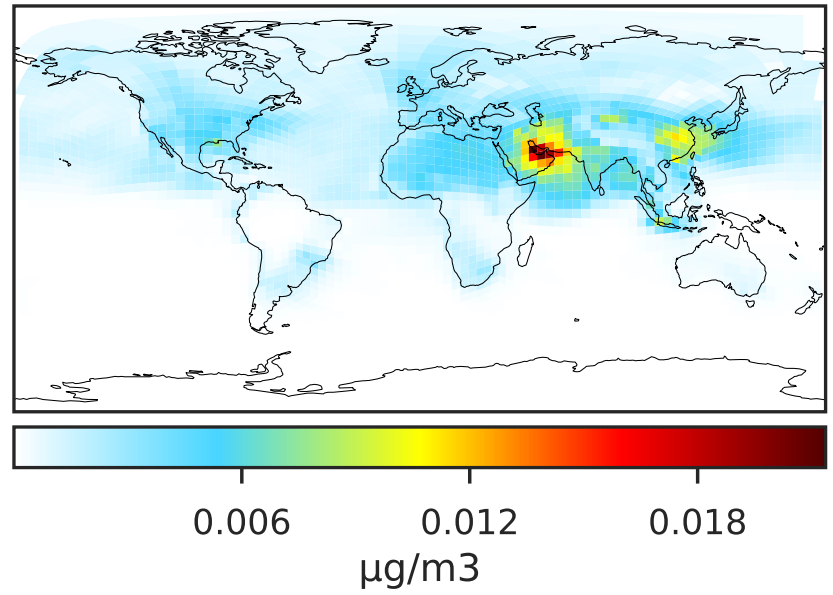
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_ASOG1 (Apr2019)

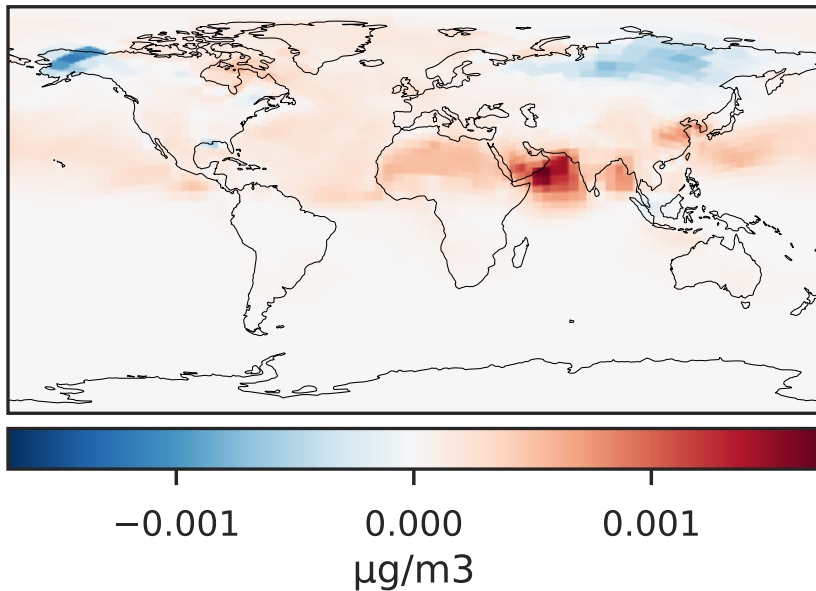
GCHP_14.0.0 (Ref)
c24



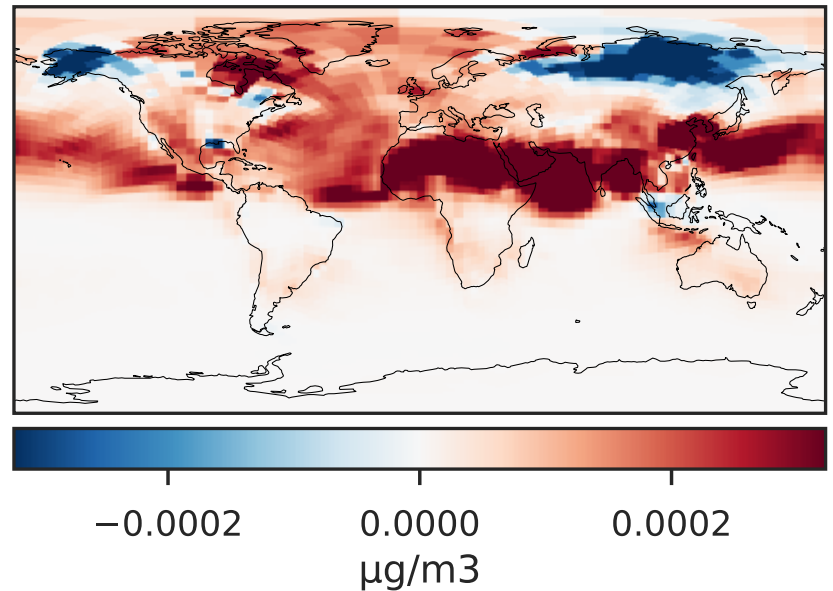
GCHP_14.2.0 (Dev)
c24



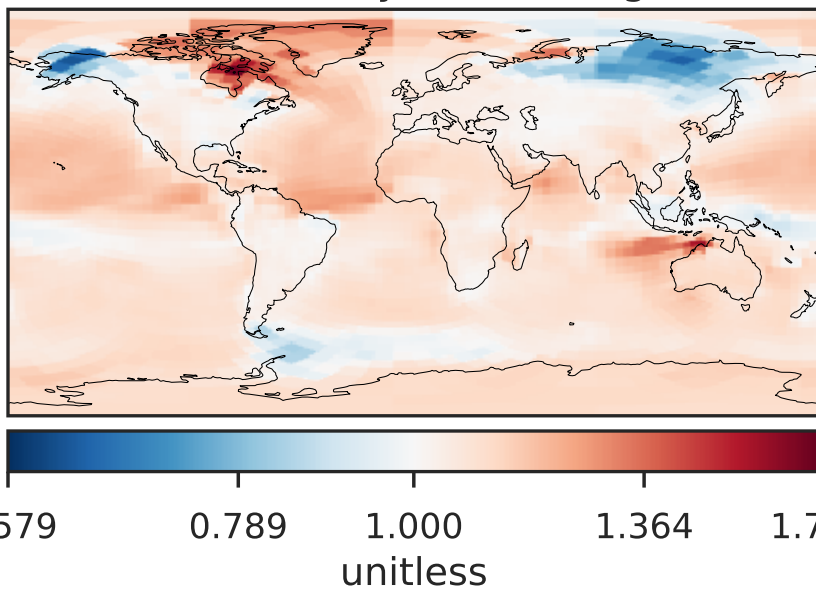
Difference (1x1.25)
Dev - Ref, Dynamic Range



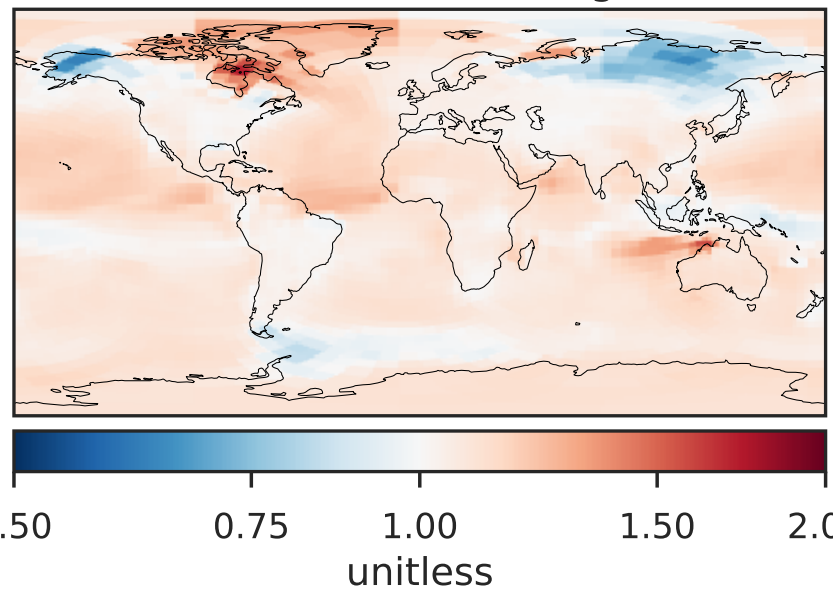
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

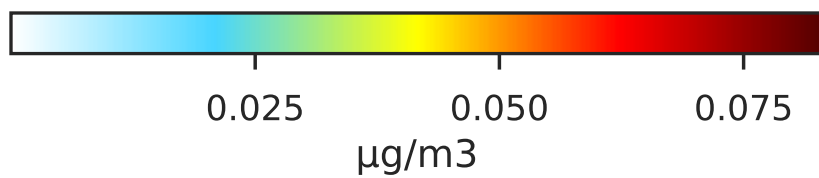
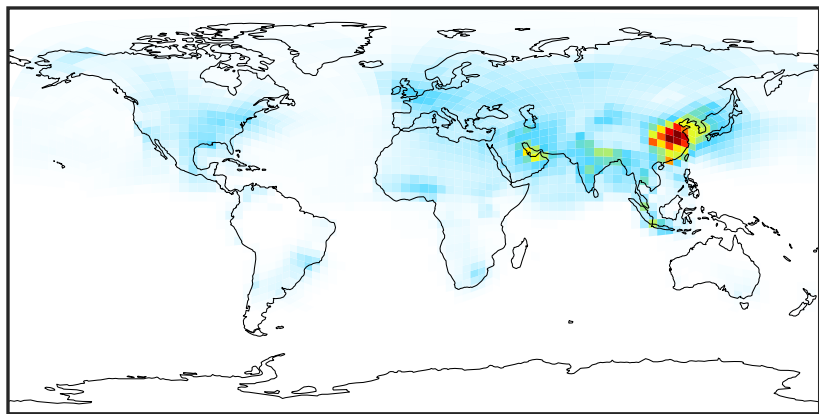


Ratio (1x1.25)
Dev/Ref, Fixed Range

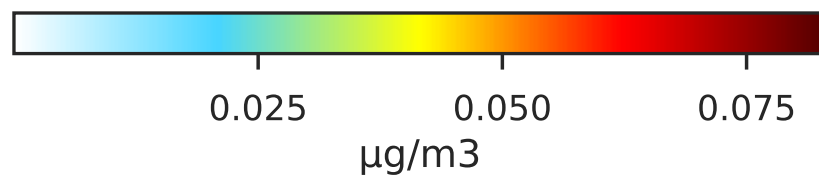
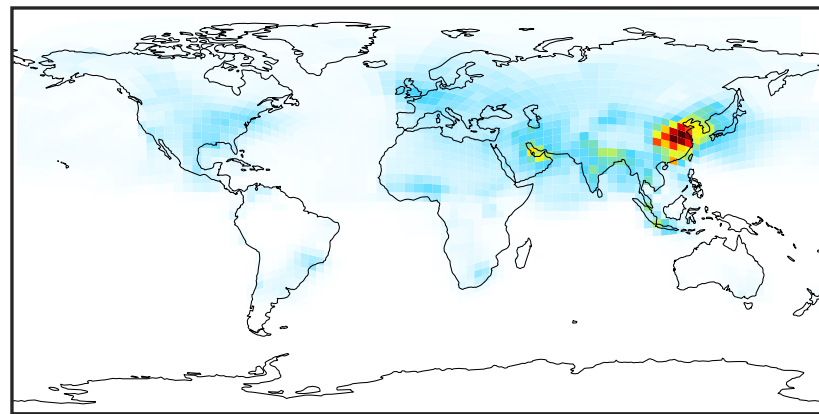


SpeciesConcVV_ASOG2 (Apr2019)

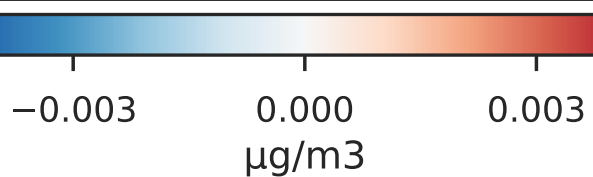
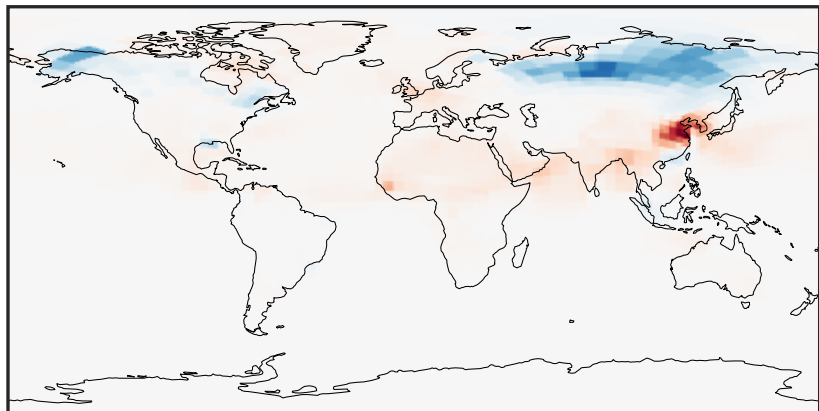
GCHP_14.0.0 (Ref)
c24



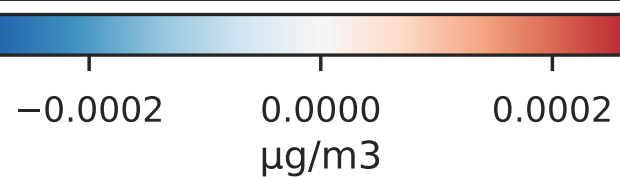
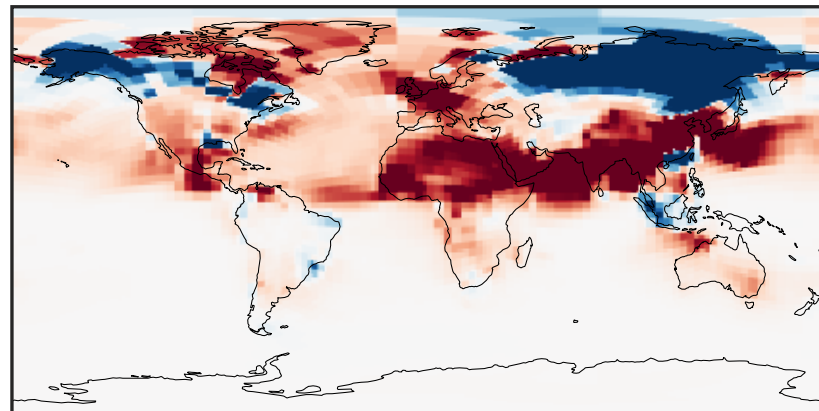
GCHP_14.2.0 (Dev)
c24



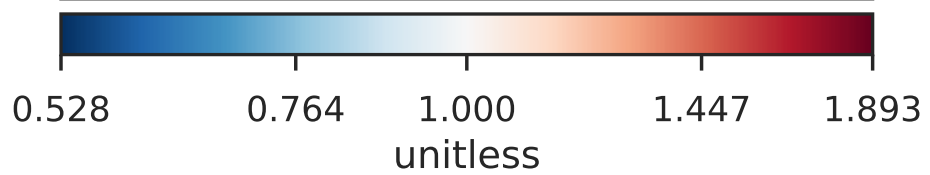
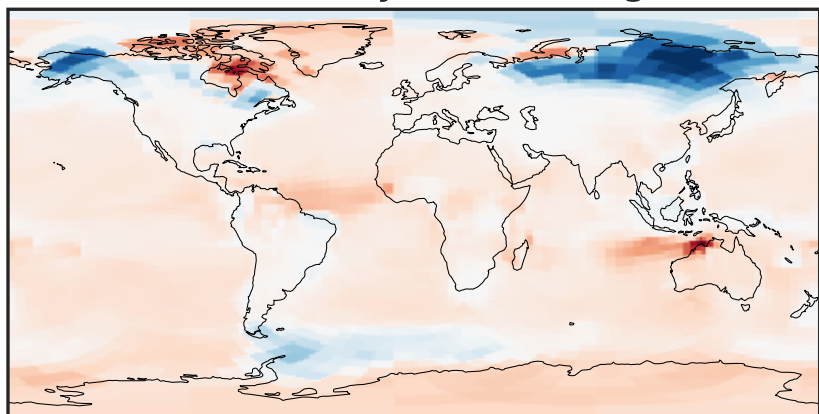
Difference (1x1.25)
Dev - Ref, Dynamic Range



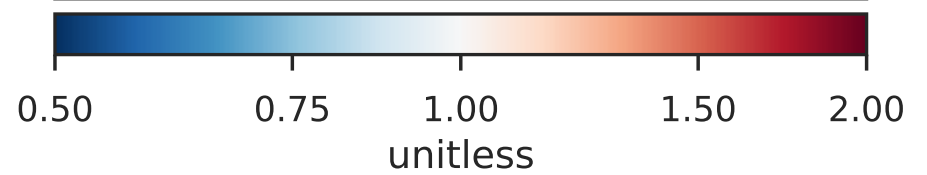
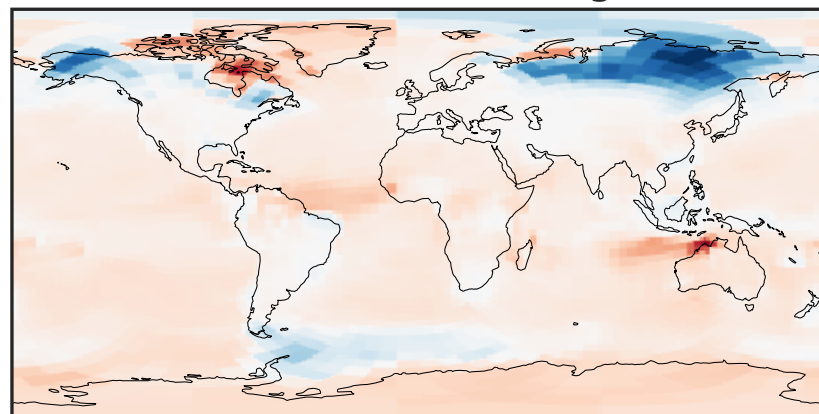
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

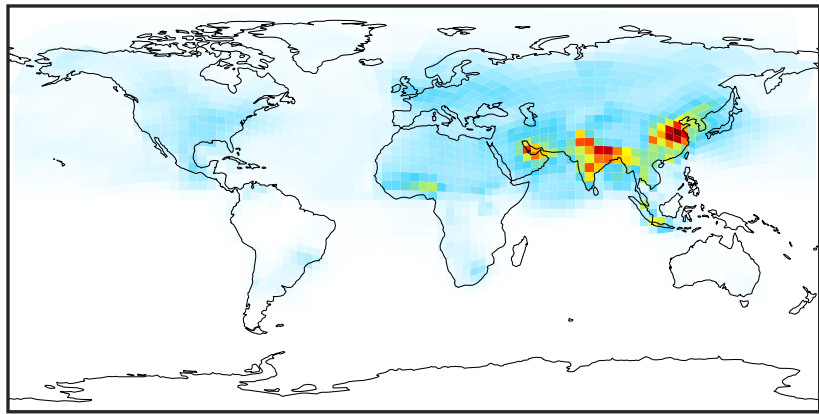


Ratio (1x1.25)
Dev/Ref, Fixed Range



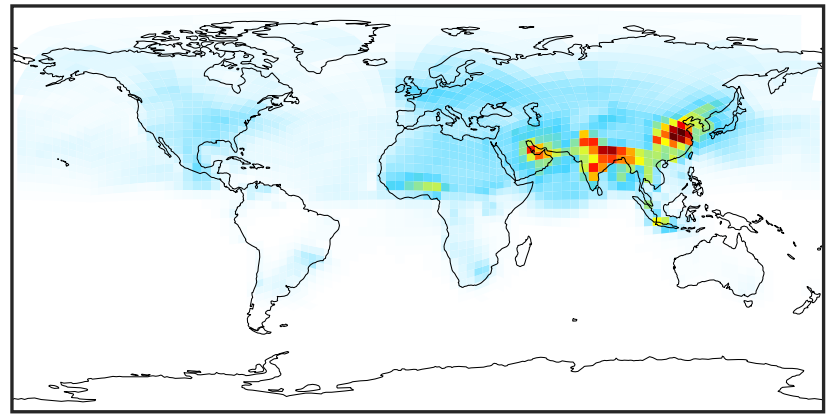
SpeciesConcVV_ASOG3 (Apr2019)

GCHP_14.0.0 (Ref)
c24



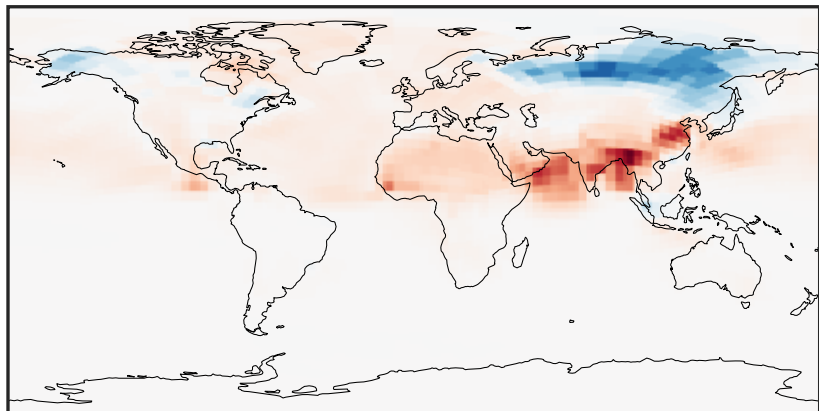
0.0000 0.0944 0.1888 0.2832 0.3776
µg/m3

GCHP_14.2.0 (Dev)
c24



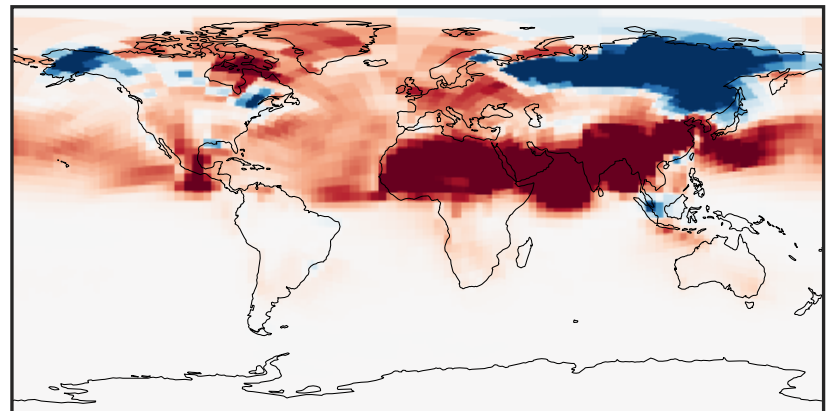
0.0000 0.0944 0.1888 0.2832 0.3776
µg/m3

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



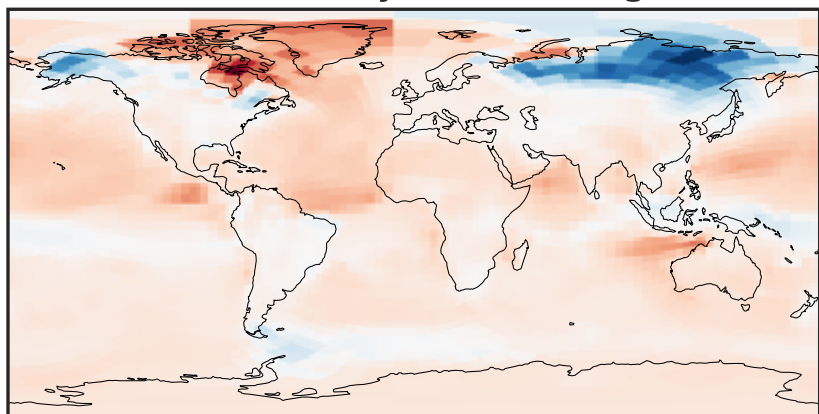
-0.015 0.000 0.015
µg/m3

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



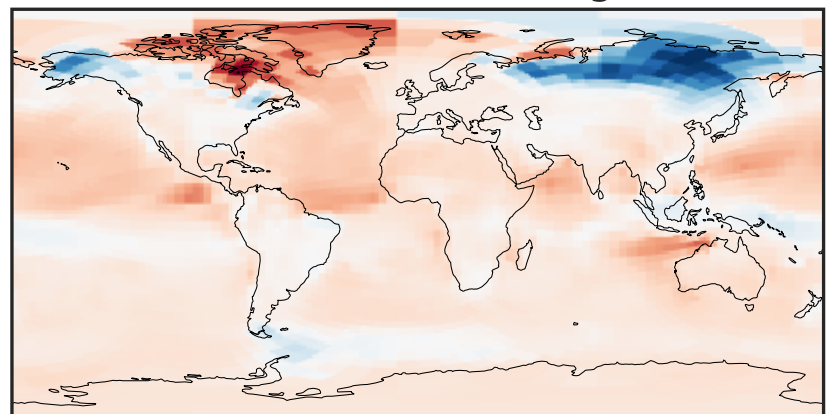
-0.003 0.000 0.003
µg/m3

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



0.470 0.735 1.000 1.564 2.128
unitless

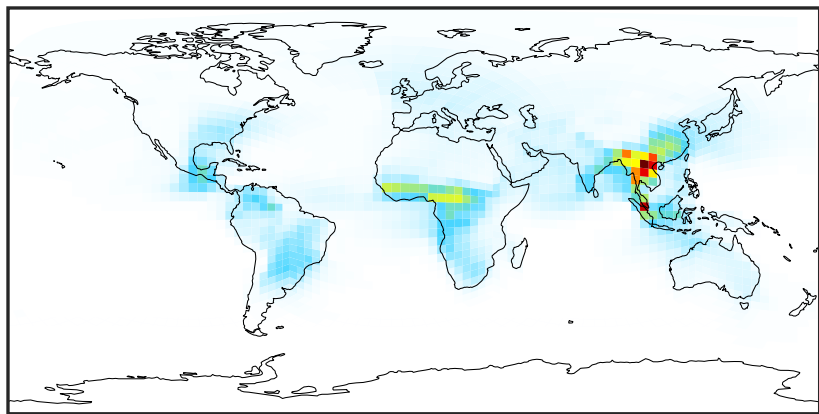
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

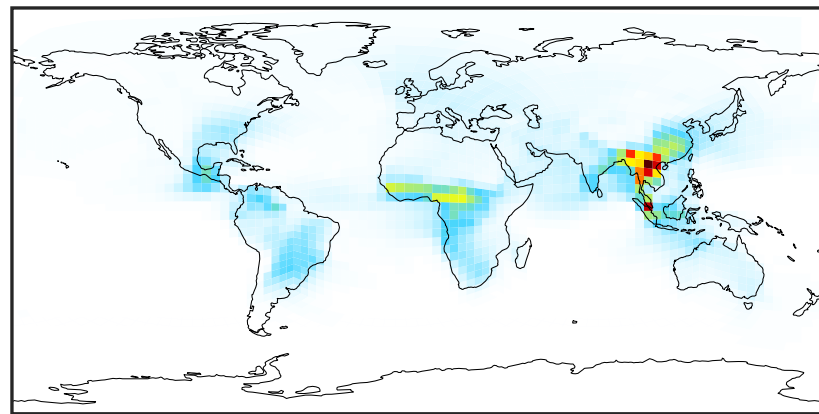
SpeciesConcVV_INDIOL (Apr2019)

GCHP_14.0.0 (Ref)
c24



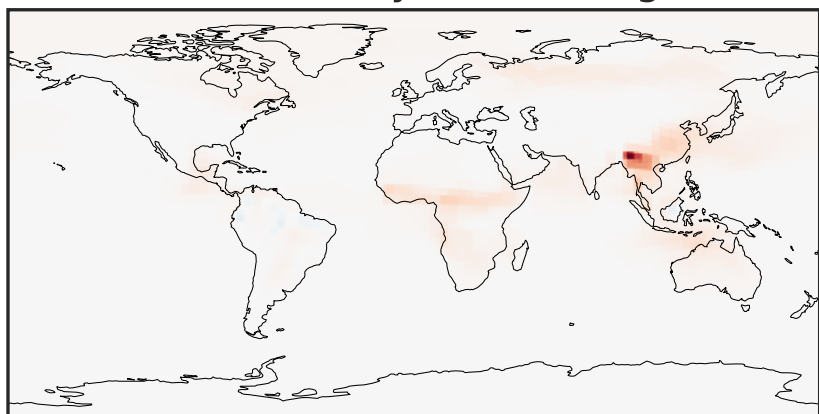
0.00 2.66 5.32 7.97 10.63
µg/m3

GCHP_14.2.0 (Dev)
c24



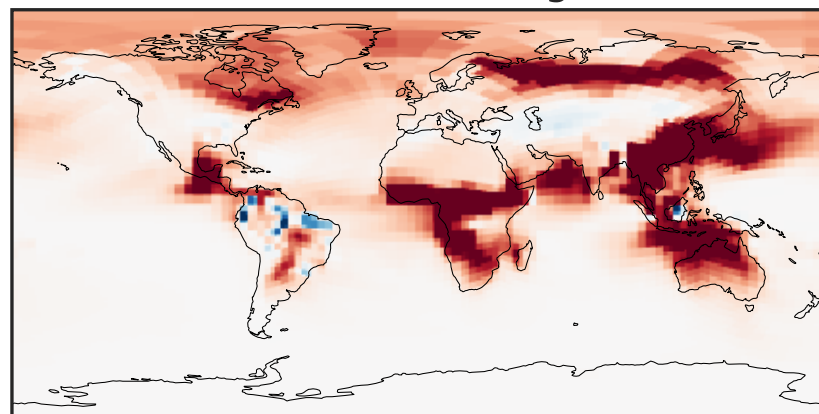
0.00 2.66 5.32 7.97 10.63
µg/m3

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



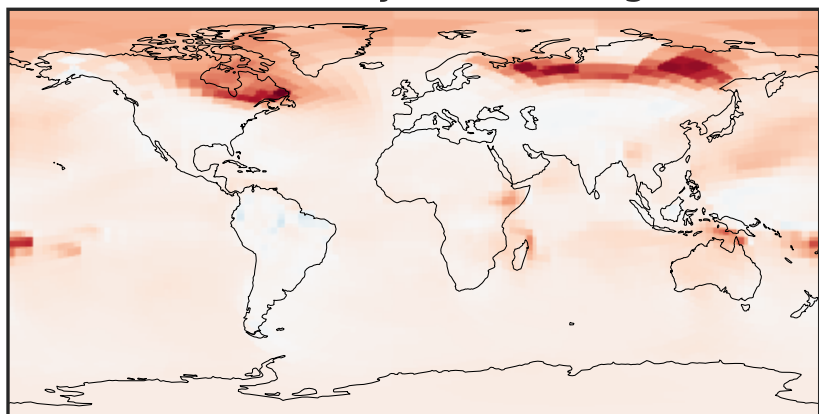
-0.825 -0.412 0.000 0.412 0.825
µg/m3

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



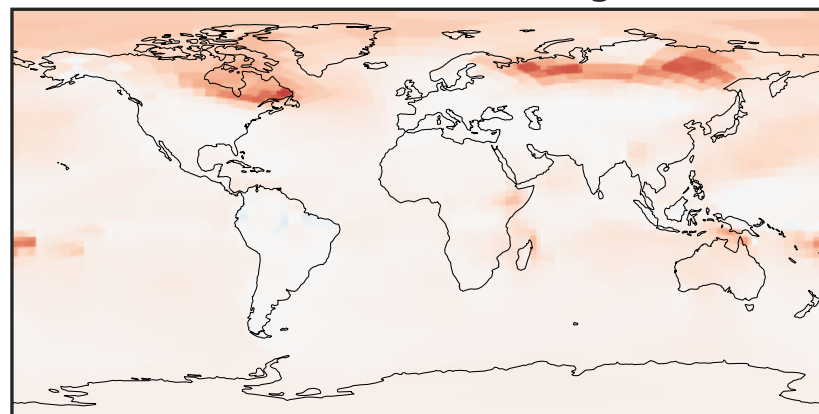
-0.025 0.000 0.025
µg/m3

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



0.6215 0.8107 1.0000 1.3045 1.6090
unitless

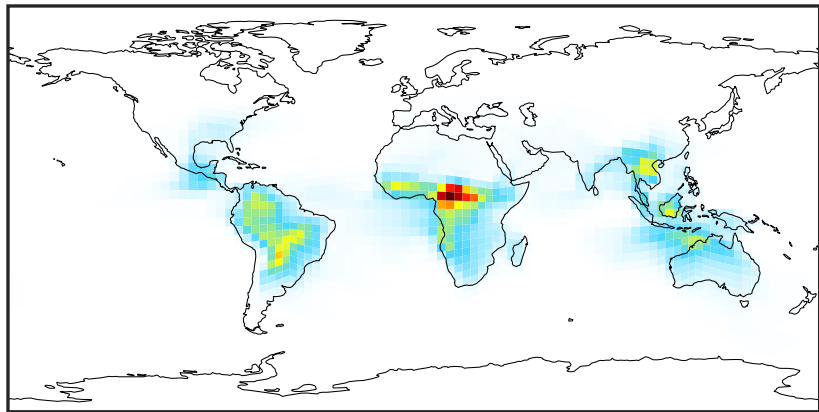
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

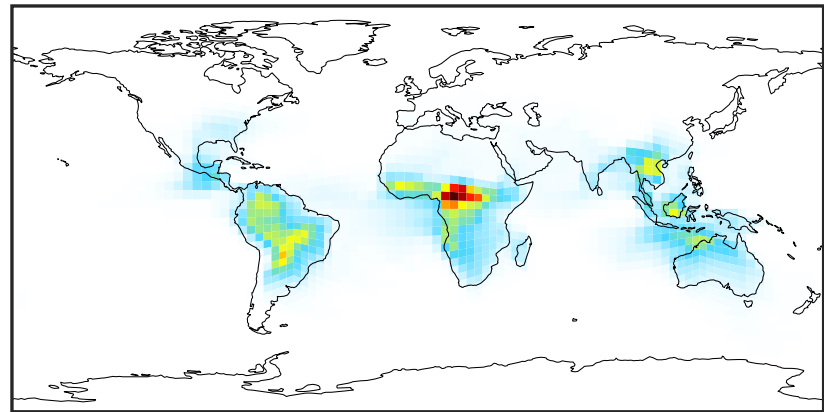
SpeciesConcVV_LVOCOA (Apr2019)

GCHP_14.0.0 (Ref)
c24



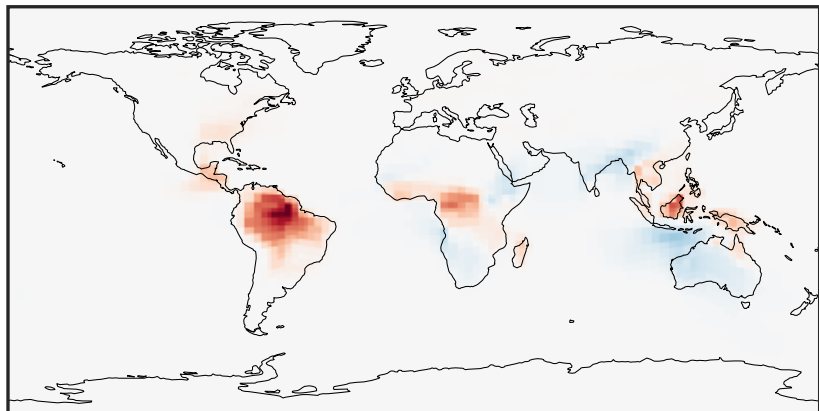
0.0000 0.0702 0.1404 0.2107 0.2809
µg/m3

GCHP_14.2.0 (Dev)
c24



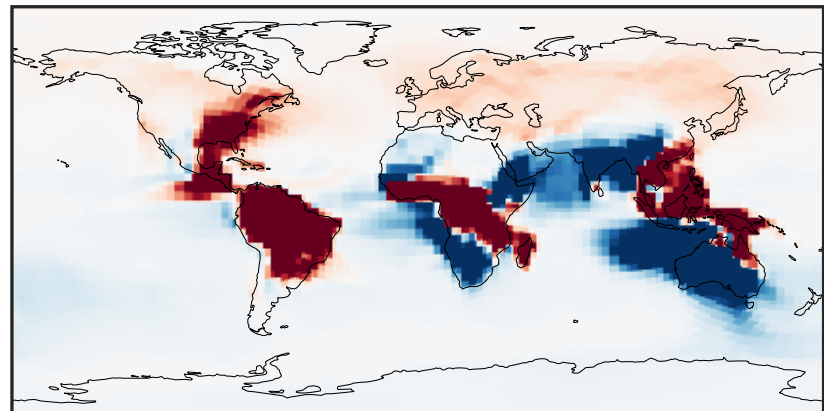
0.0000 0.0702 0.1404 0.2107 0.2809
µg/m3

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



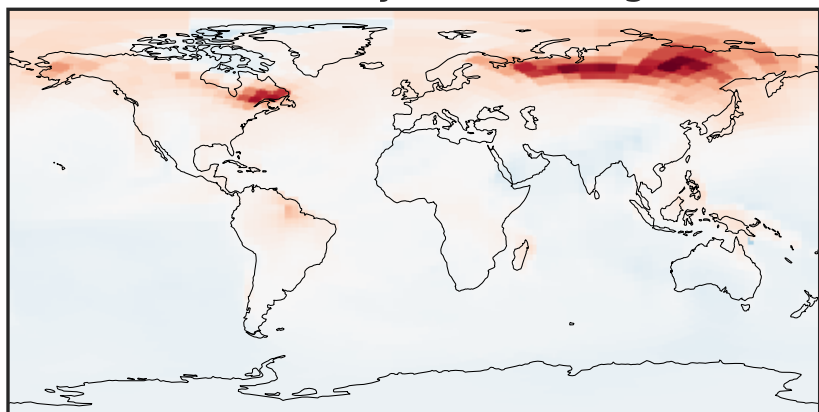
-0.003 0.000 0.003
µg/m3

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



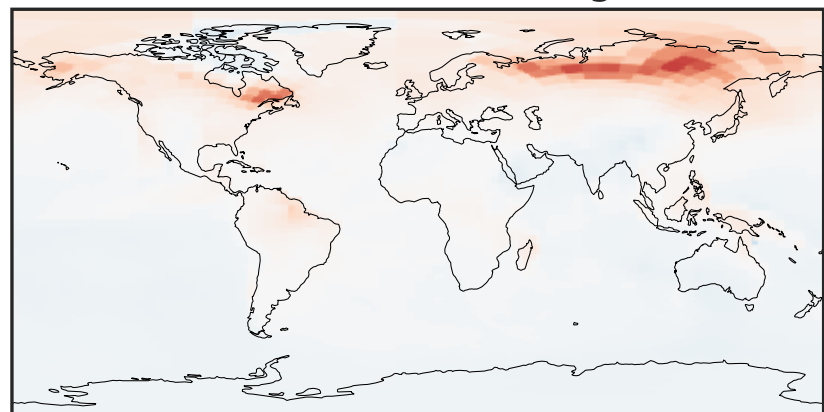
-0.00015 0.00000 0.00015
µg/m3

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



0.6218 0.8109 1.0000 1.3041 1.6082
unitless

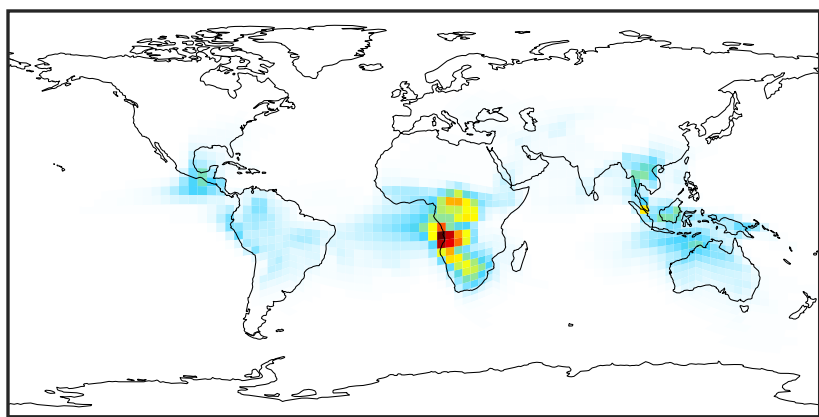
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

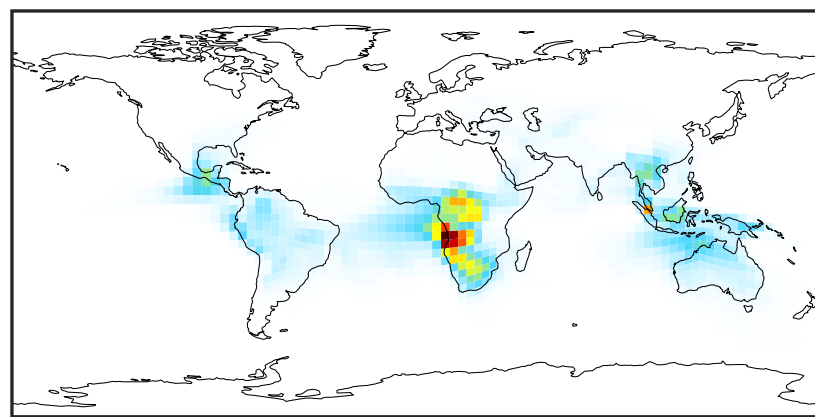
SpeciesConcVV_SOAIE (Apr2019)

GCHP_14.0.0 (Ref)
c24



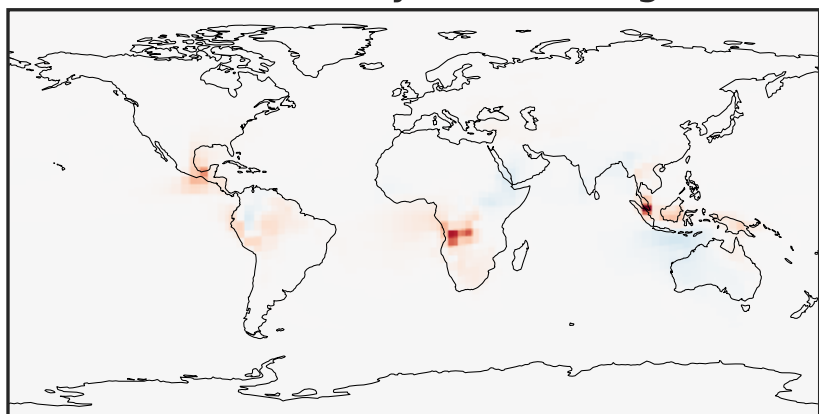
0.001 1.123 2.246 3.368 4.492
 $\mu\text{g}/\text{m}^3$

GCHP_14.2.0 (Dev)
c24



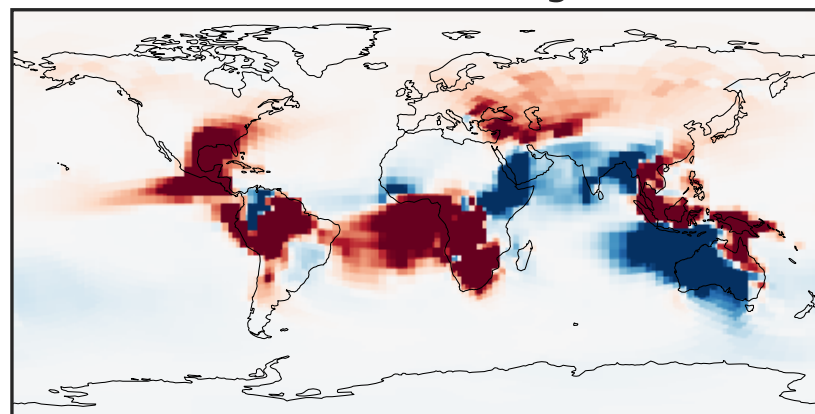
0.001 1.123 2.246 3.368 4.492
 $\mu\text{g}/\text{m}^3$

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



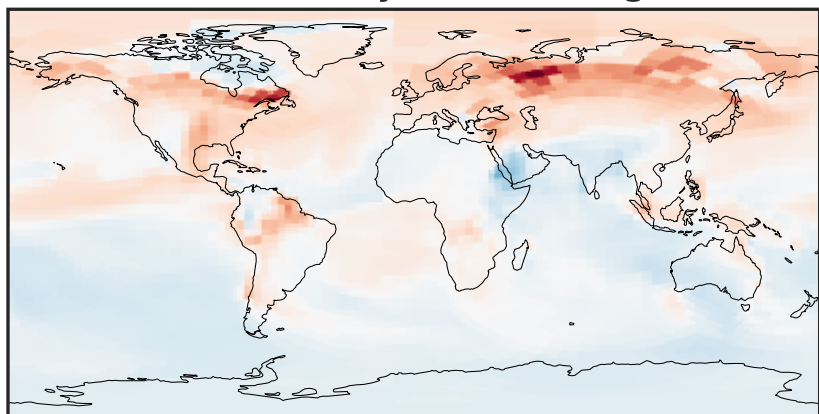
-0.3405 -0.1702 0.0000 0.1702 0.3405
 $\mu\text{g}/\text{m}^3$

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



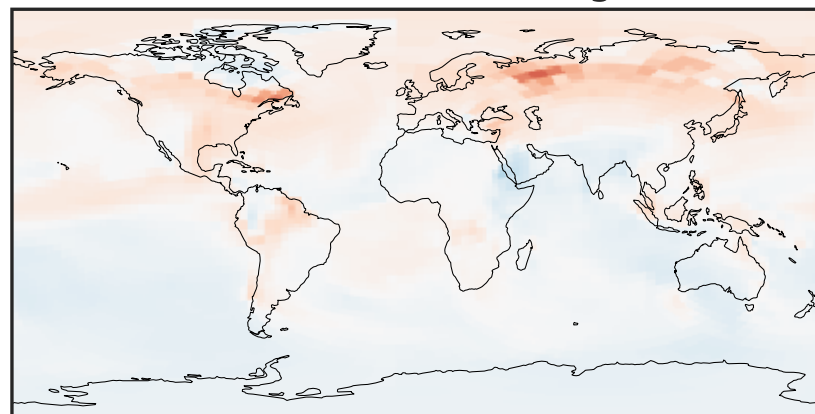
-0.004 0.000 0.004
 $\mu\text{g}/\text{m}^3$

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



0.6637 0.8318 1.0000 1.2534 1.5068
unitless

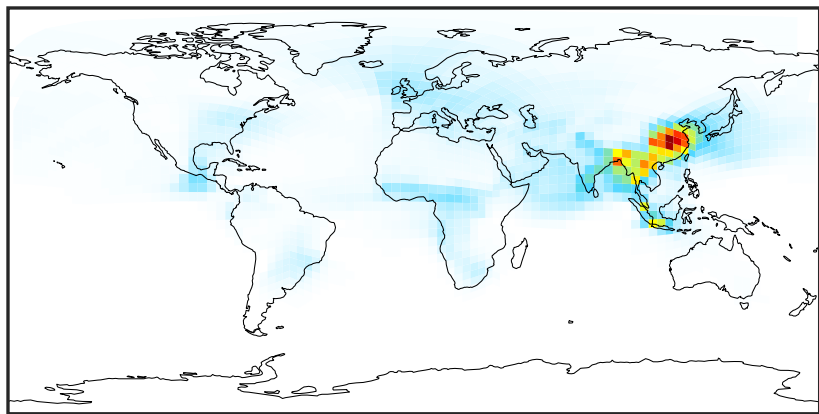
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

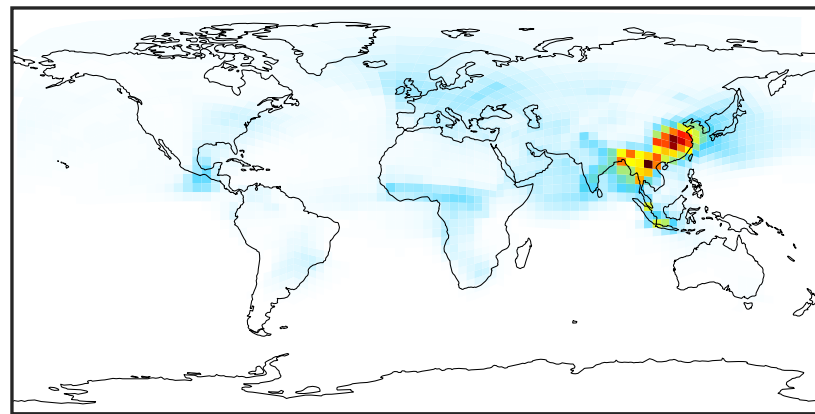
SpeciesConcVV_SOAGX (Apr2019)

GCHP_14.0.0 (Ref)
c24



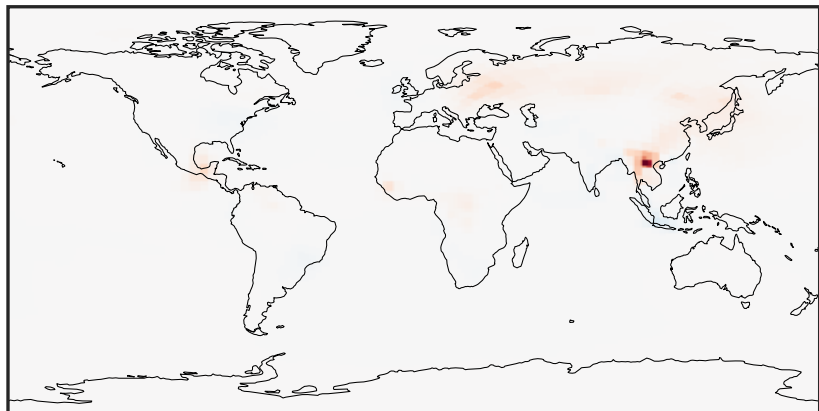
0.000 0.306 0.612 0.918 1.224
 $\mu\text{g}/\text{m}^3$

GCHP_14.2.0 (Dev)
c24



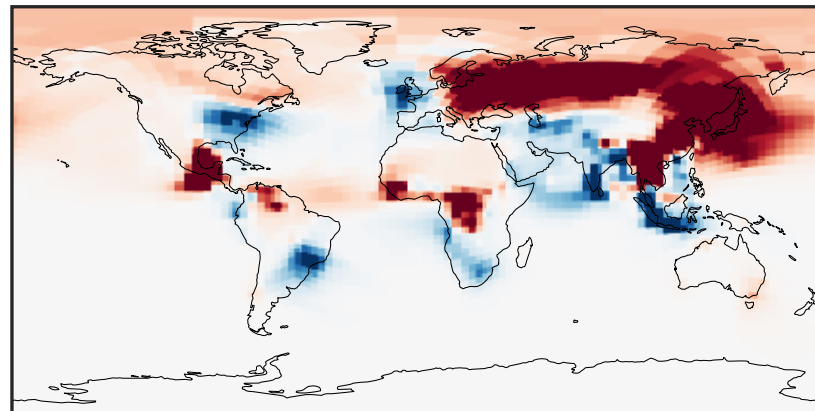
0.000 0.306 0.612 0.918 1.224
 $\mu\text{g}/\text{m}^3$

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



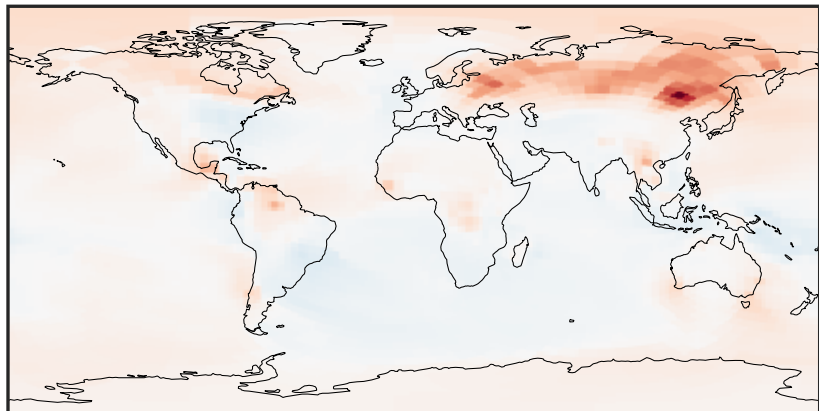
-0.4689 -0.2344 0.0000 0.2344 0.4689
 $\mu\text{g}/\text{m}^3$

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



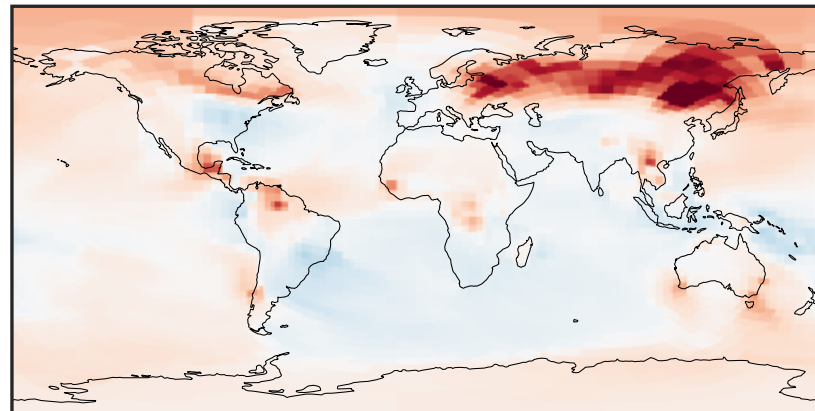
-0.006 0.000 0.006
 $\mu\text{g}/\text{m}^3$

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



0.248 0.624 1.000 2.514 4.028
unitless

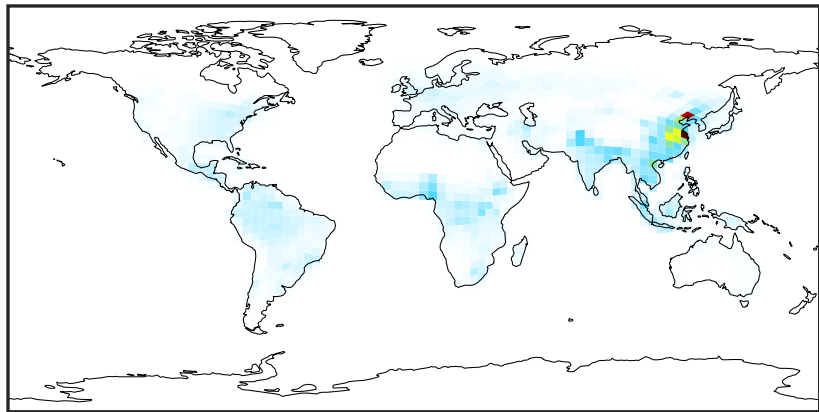
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

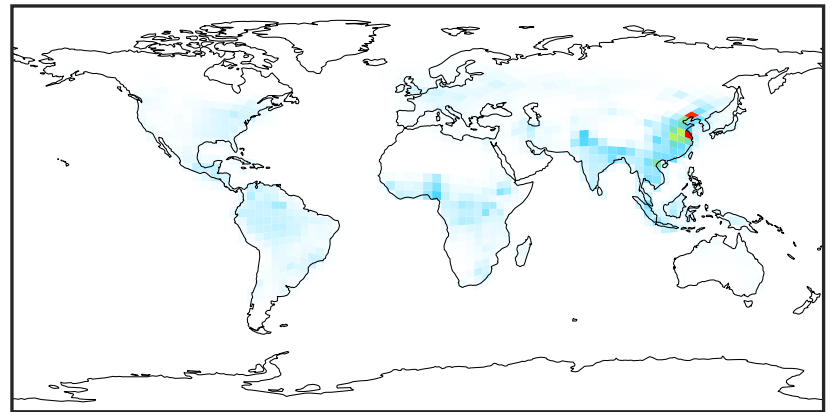
SpeciesConcVV_SOAP (Apr2019)

GCHP_14.0.0 (Ref)
c24



0.00 5.39 10.78 16.17 21.56
 $\mu\text{g}/\text{m}^3$

GCHP_14.2.0 (Dev)
c24



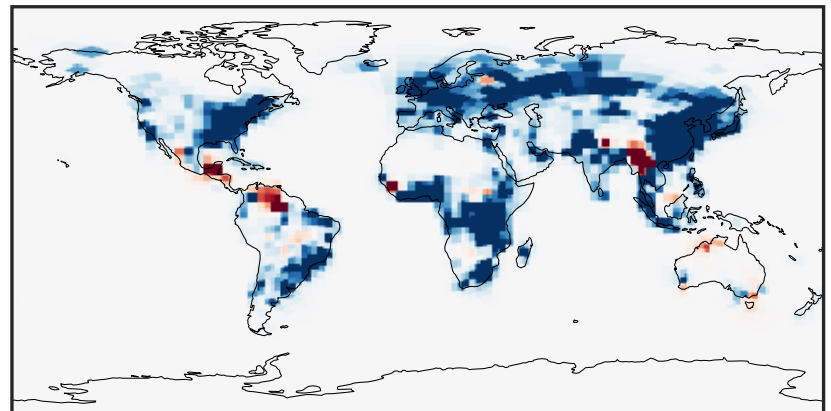
0.00 5.39 10.78 16.17 21.56
 $\mu\text{g}/\text{m}^3$

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



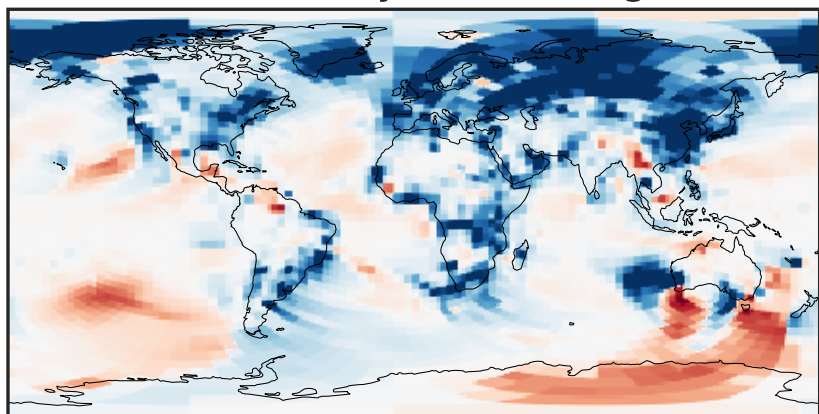
-5.17 -2.59 0.00 2.59 5.17
 $\mu\text{g}/\text{m}^3$

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



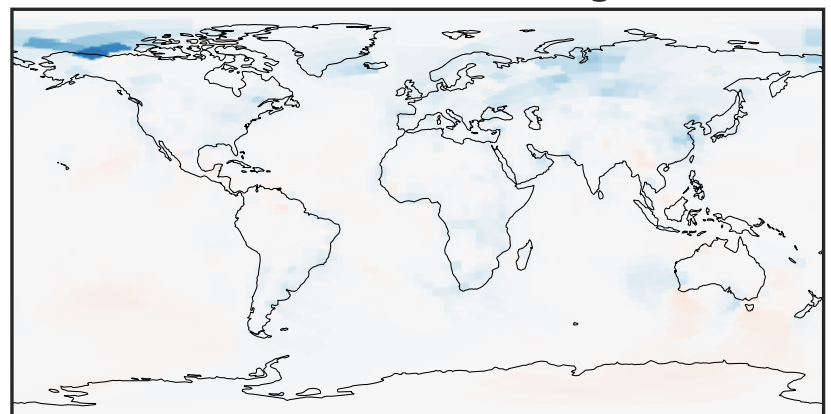
-0.015 0.000 0.015
 $\mu\text{g}/\text{m}^3$

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



0.9369 0.9684 1.0000 1.0337 1.0674
unitless

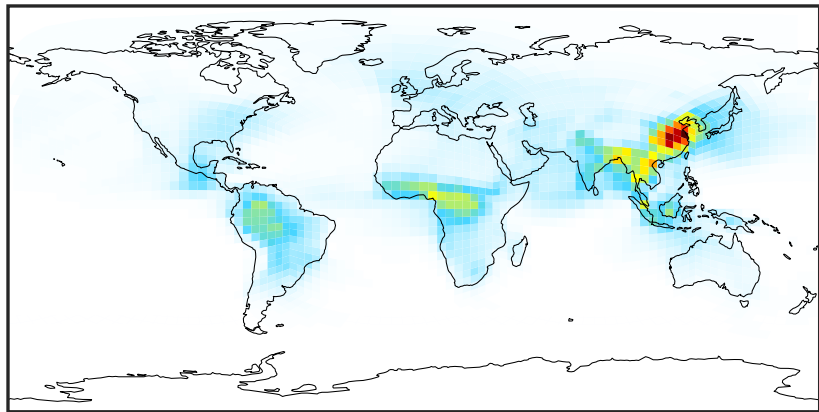
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

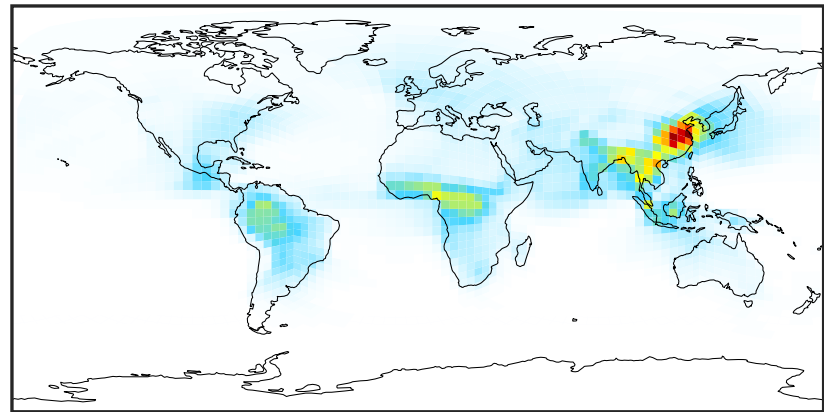
SpeciesConcVV_SOAS (Apr2019)

GCHP_14.0.0 (Ref)
c24



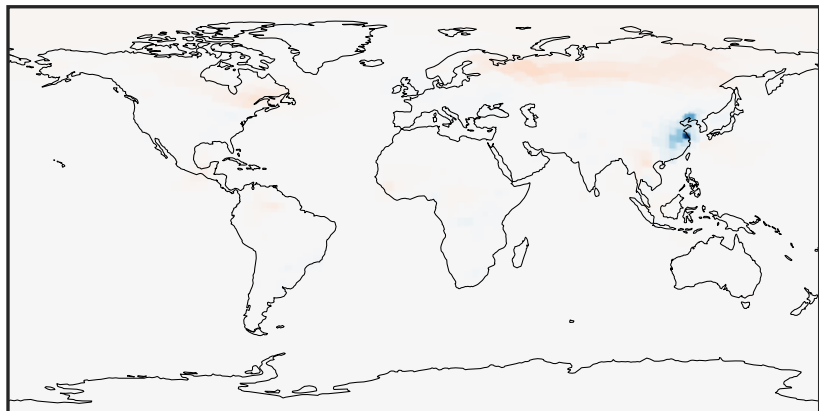
0.00 3.63 7.26 10.89 14.52
µg/m3

GCHP_14.2.0 (Dev)
c24



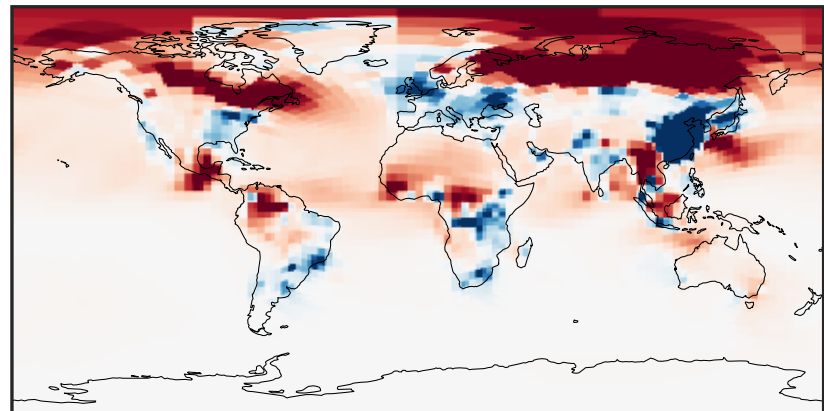
0.00 3.63 7.26 10.89 14.52
µg/m3

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



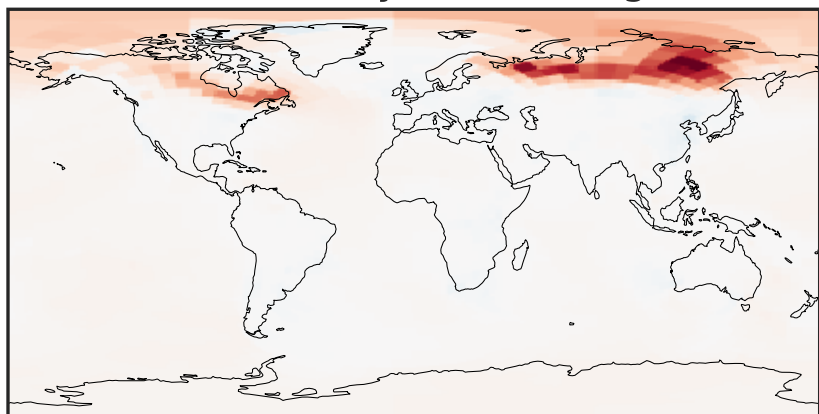
-0.973 -0.486 0.000 0.486 0.973
µg/m3

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



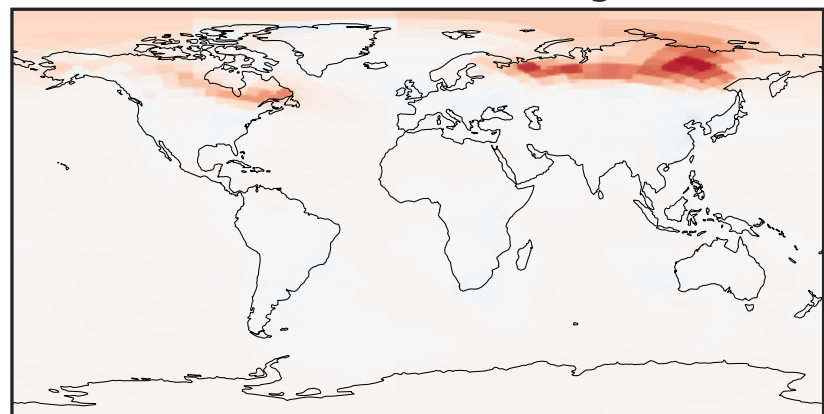
-0.015 0.000 0.015
µg/m3

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



0.576 0.788 1.000 1.368 1.736
unitless

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



0.50 0.75 1.00 1.50 2.00
unitless