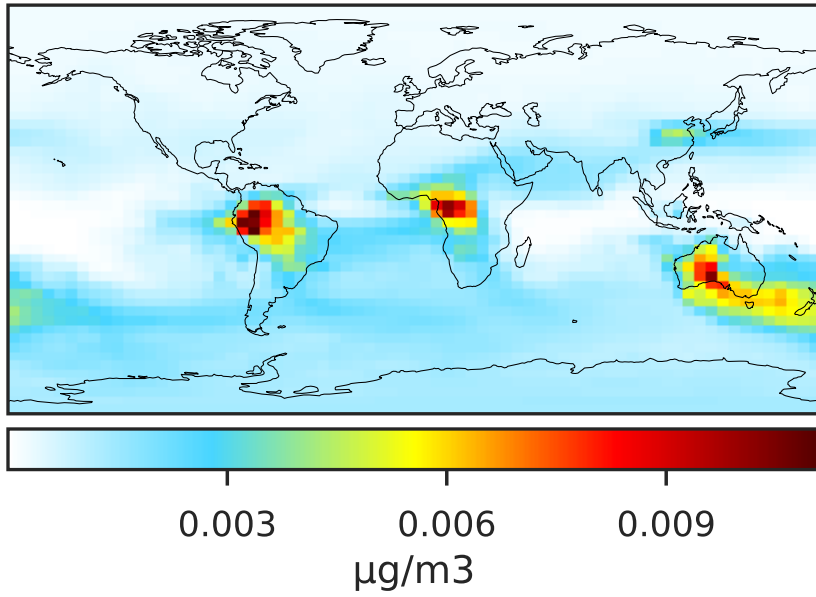
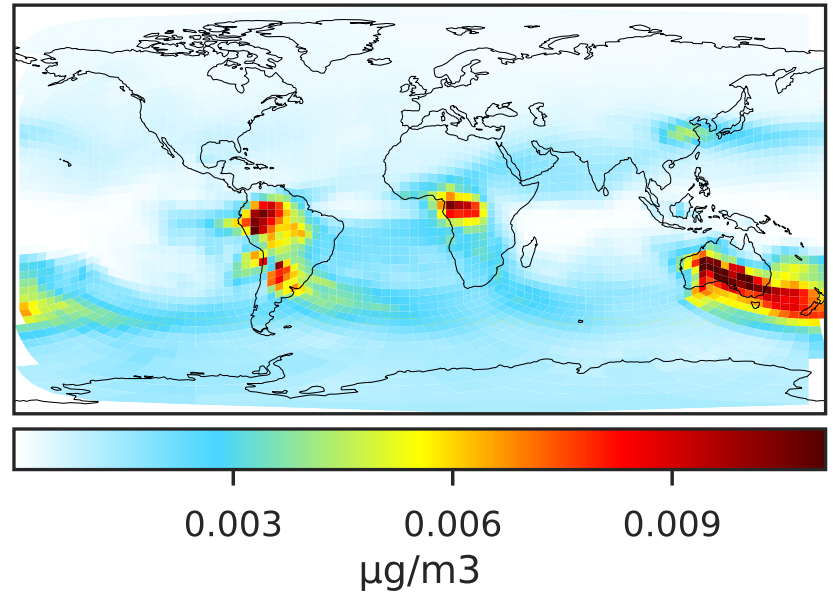


# SpeciesConcVW\_TSOA0 (Jan2019)

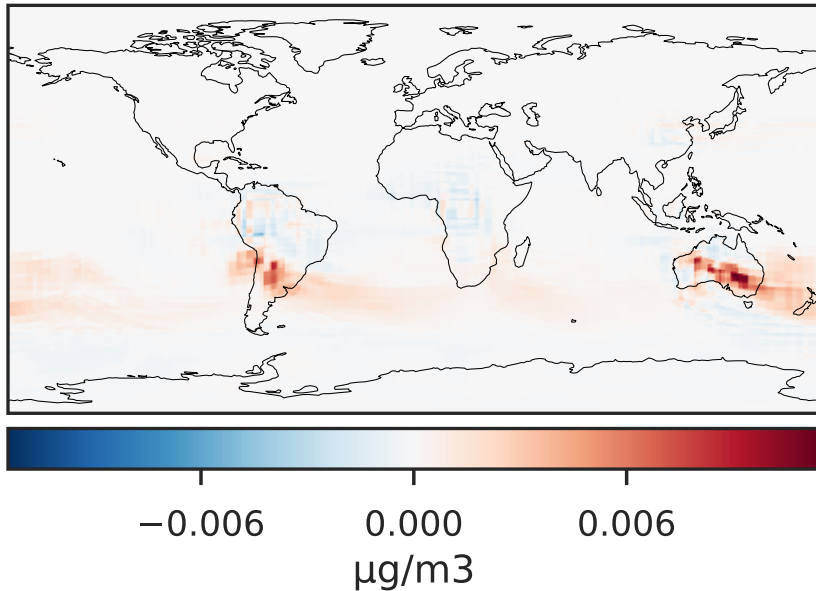
GCC\_14.2.0 (Ref)  
4.0x5.0



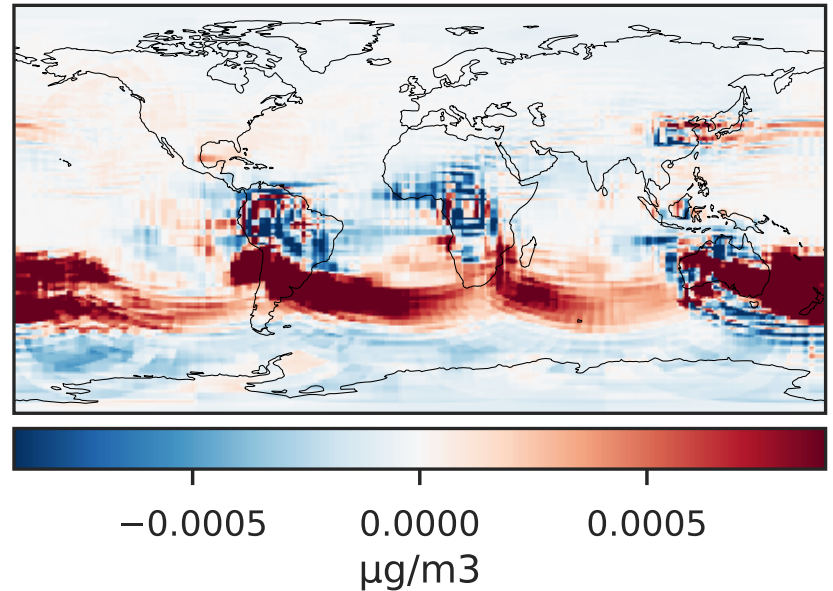
GCHP\_14.2.0 (Dev)  
c24



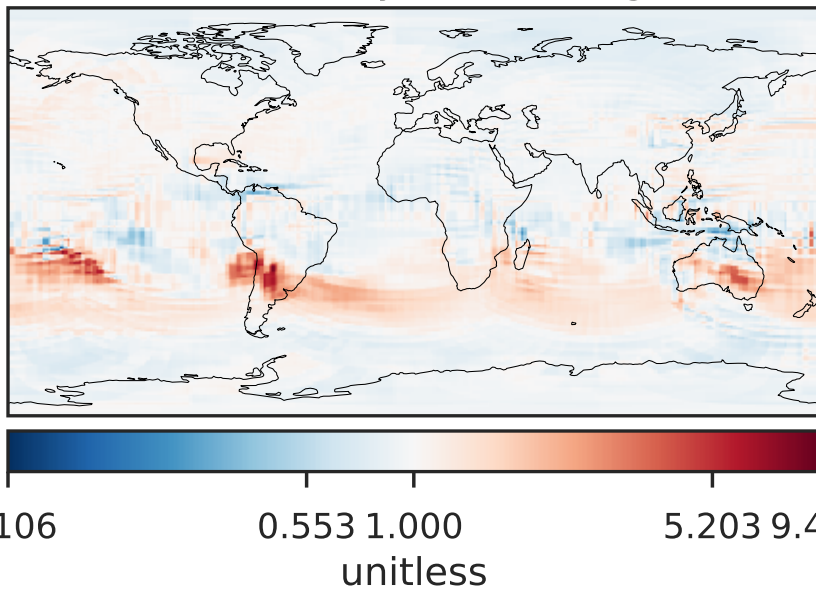
Difference (1x1.25)  
Dev - Ref, Dynamic Range



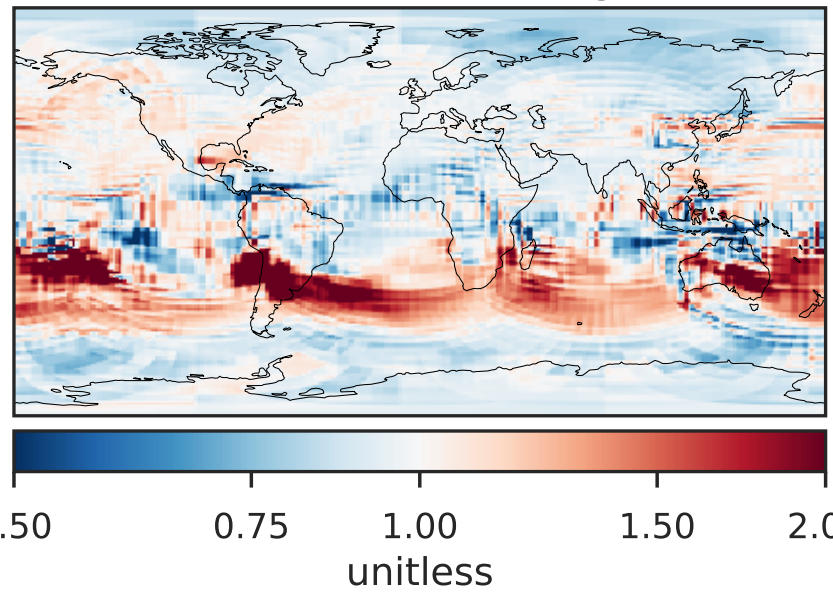
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

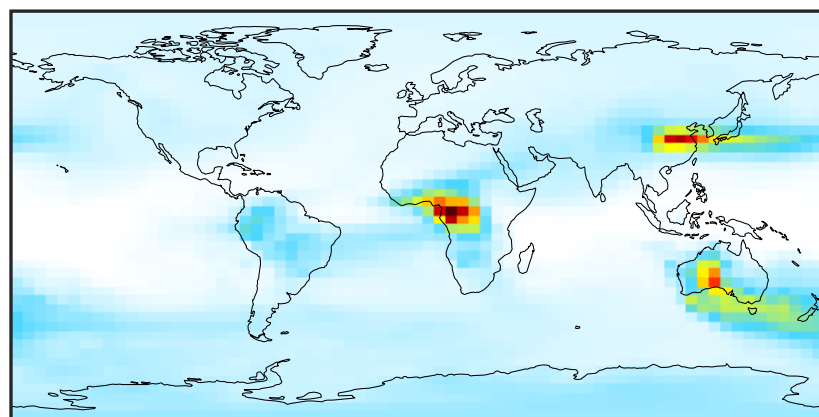


Ratio (1x1.25)  
Dev/Ref, Fixed Range



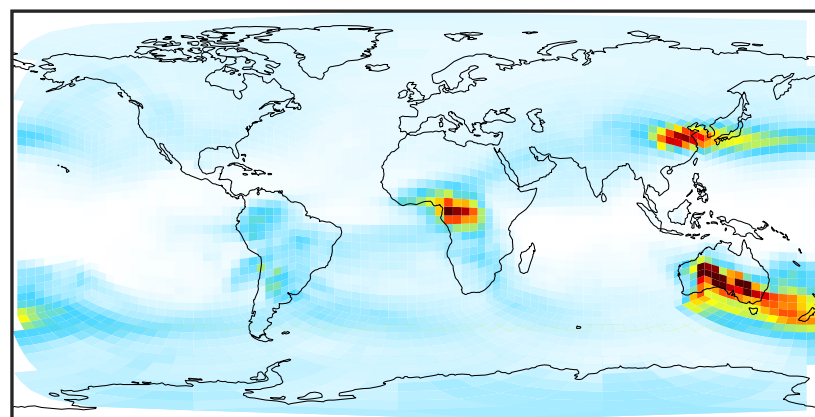
# SpeciesConcVW\_TSOA1 (Jan2019)

GCC\_14.2.0 (Ref)  
4.0x5.0



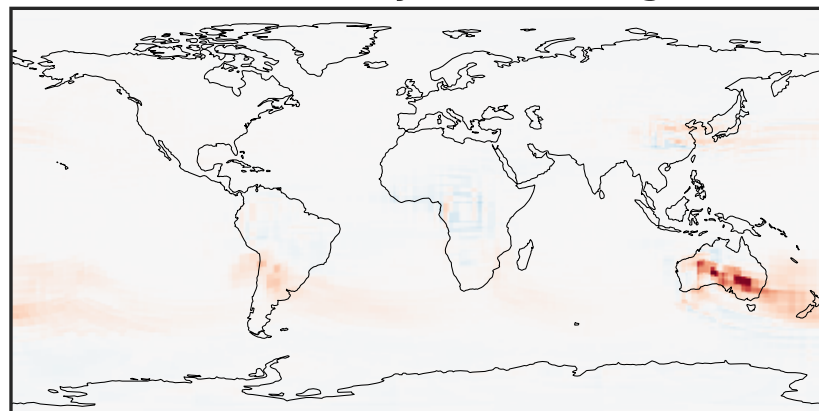
0.0008 0.0016 0.0024  
 $\mu\text{g}/\text{m}^3$

GCHP\_14.2.0 (Dev)  
c24



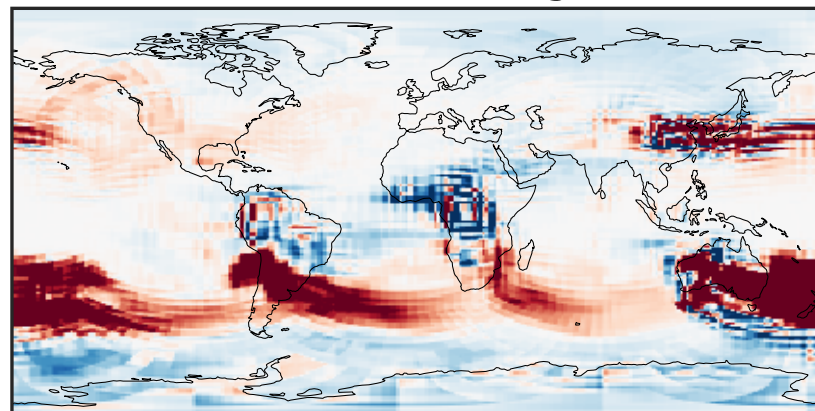
0.0008 0.0016 0.0024  
 $\mu\text{g}/\text{m}^3$

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



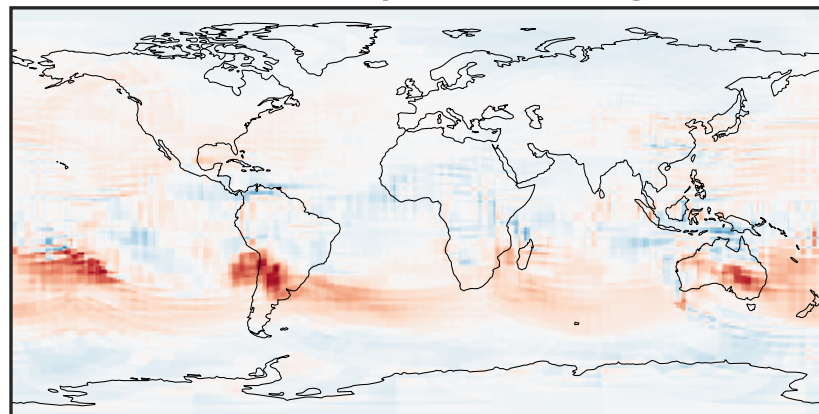
-0.002 0.000 0.002  
 $\mu\text{g}/\text{m}^3$

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



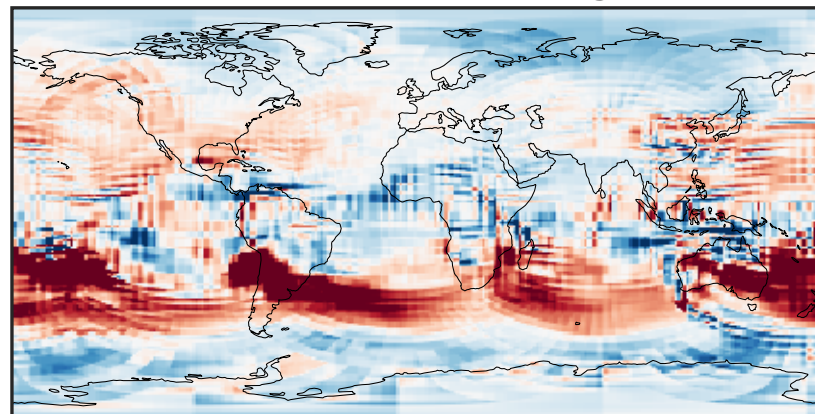
-0.0001 0.0000 0.0001  
 $\mu\text{g}/\text{m}^3$

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



1e-01 1 10  
unitless

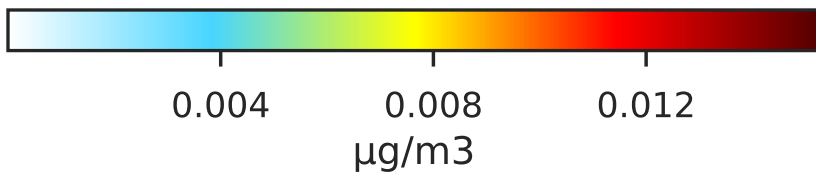
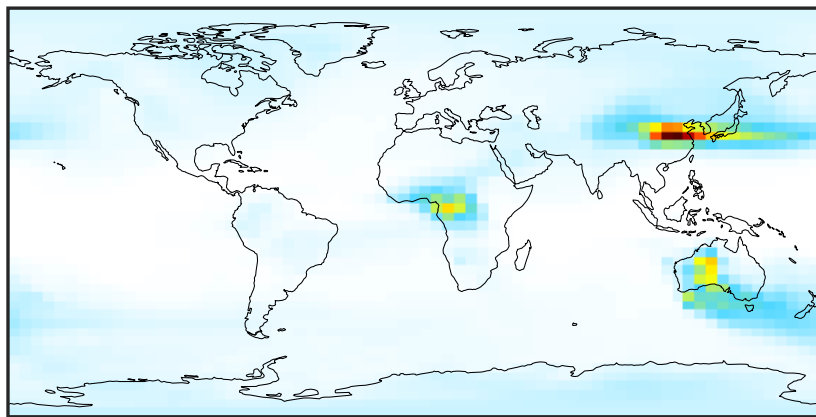
Ratio (1x1.25)  
Dev/Ref, Fixed Range



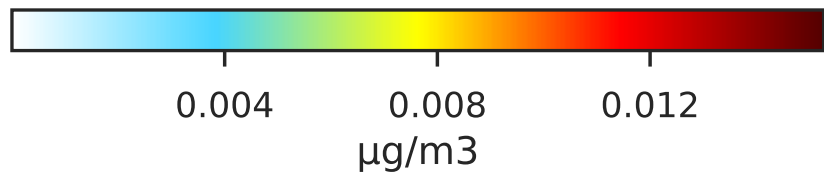
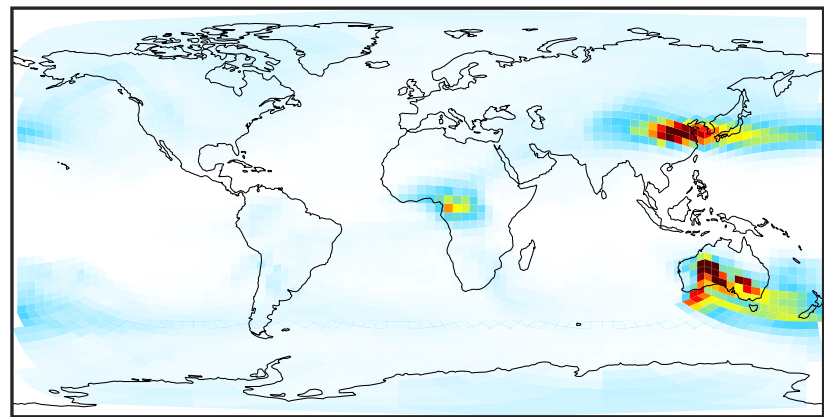
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVW\_TSOA2 (Jan2019)

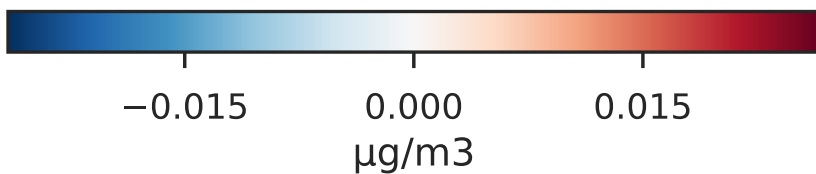
GCC\_14.2.0 (Ref)  
4.0x5.0



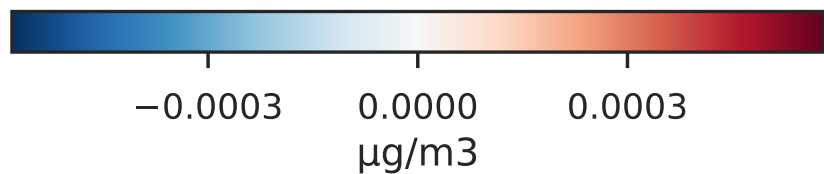
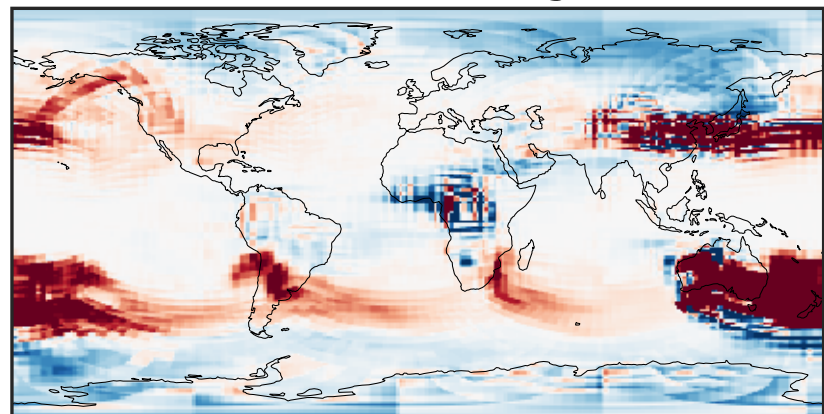
GCHP\_14.2.0 (Dev)  
c24



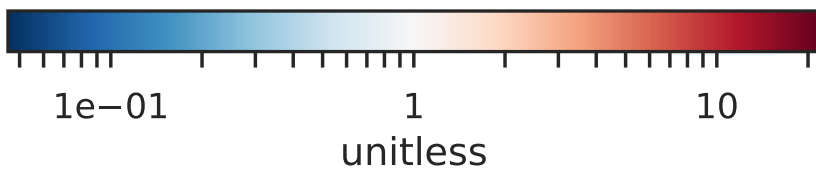
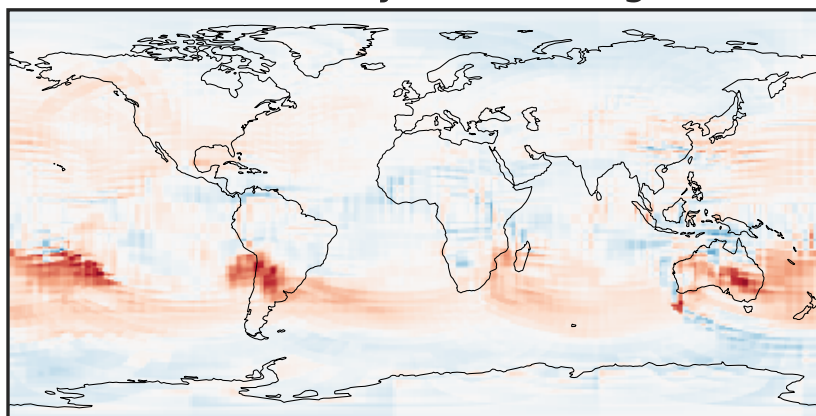
Difference (1x1.25)  
Dev - Ref, Dynamic Range



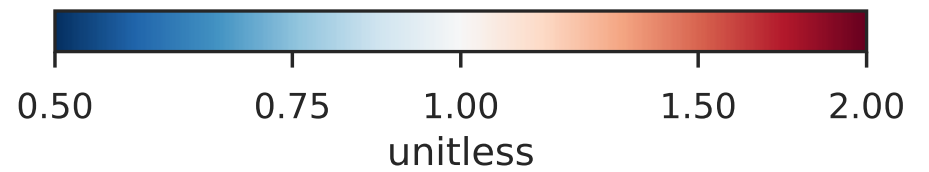
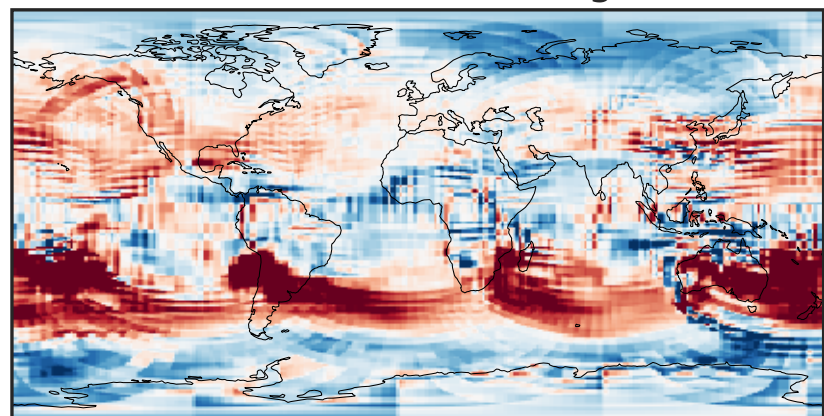
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

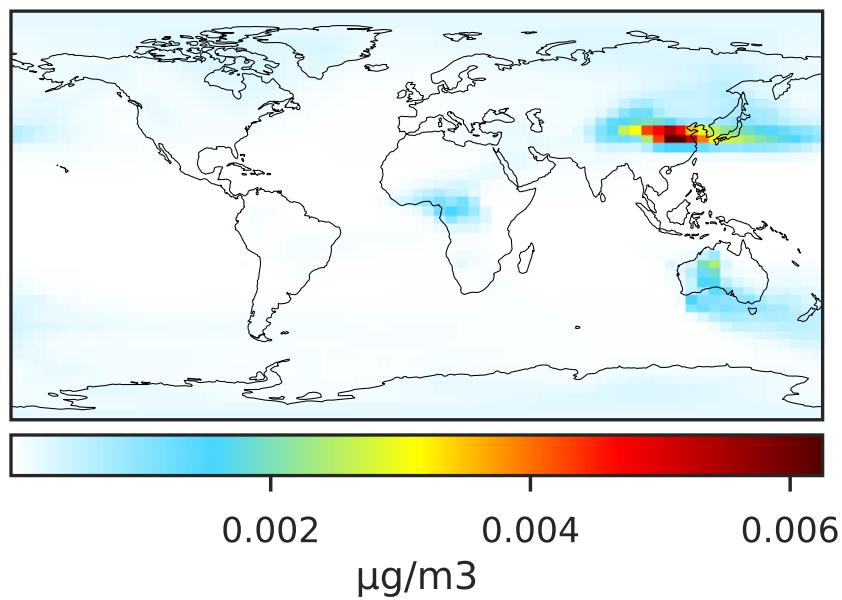


Ratio (1x1.25)  
Dev/Ref, Fixed Range

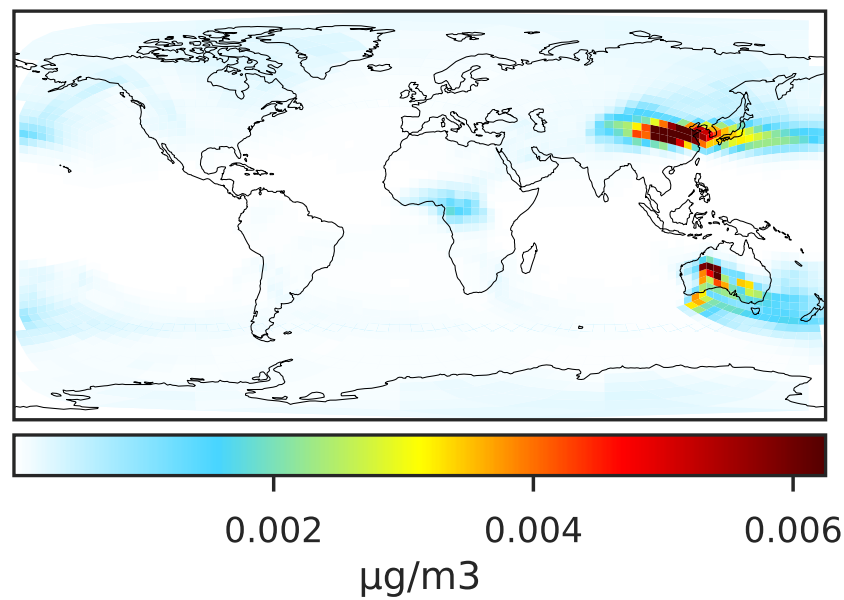


# SpeciesConcVW\_TSOA3 (Jan2019)

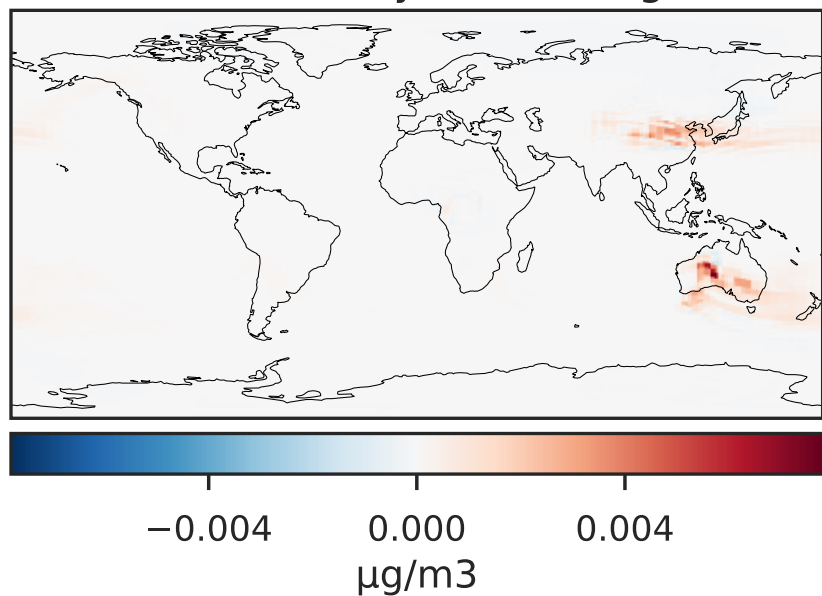
GCC\_14.2.0 (Ref)  
4.0x5.0



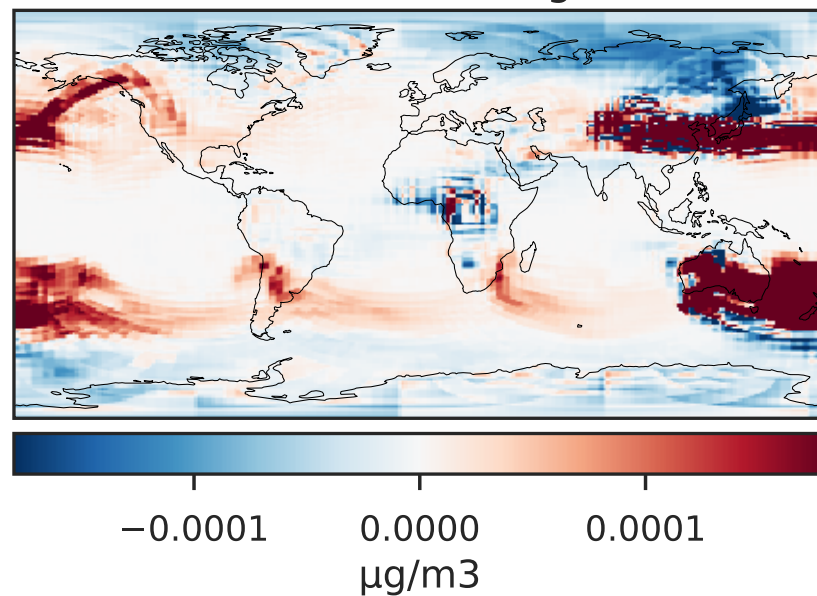
GCHP\_14.2.0 (Dev)  
c24



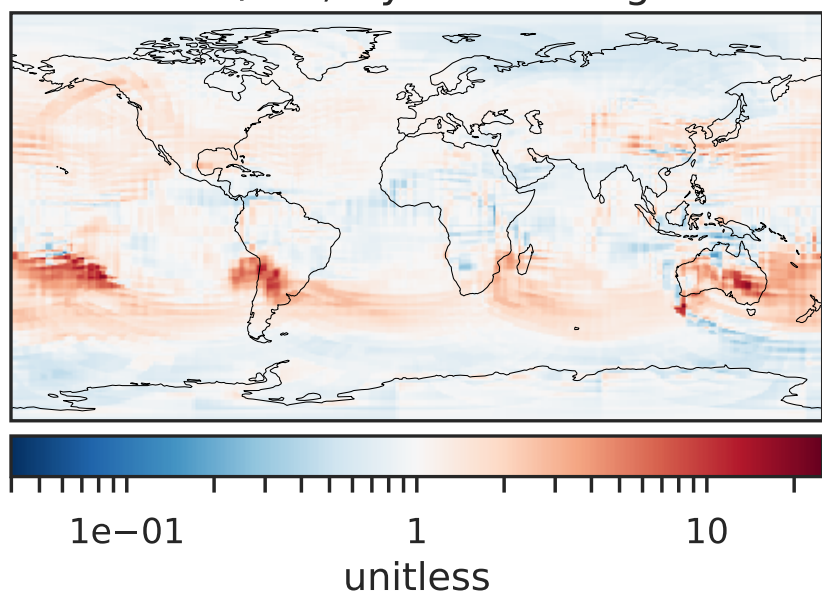
Difference (1x1.25)  
Dev - Ref, Dynamic Range



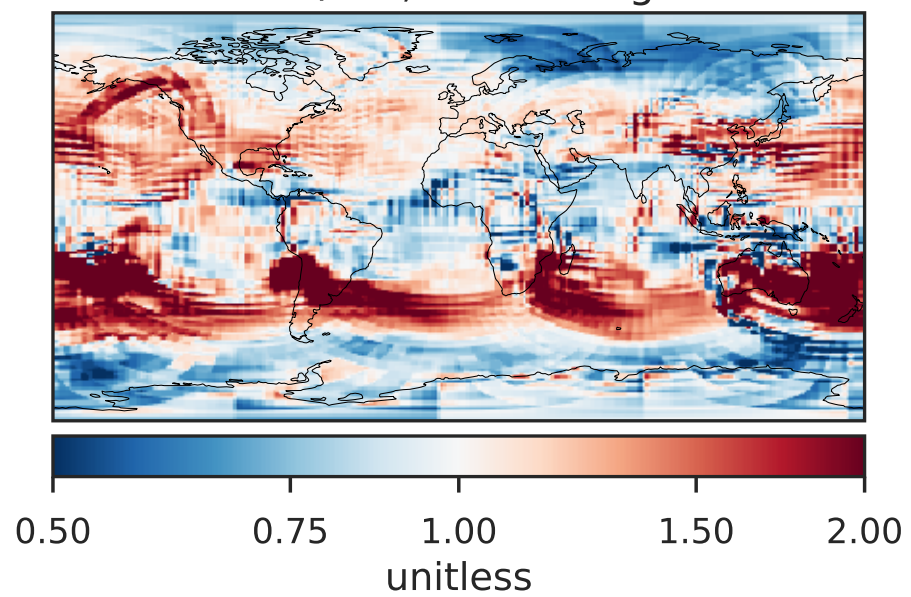
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

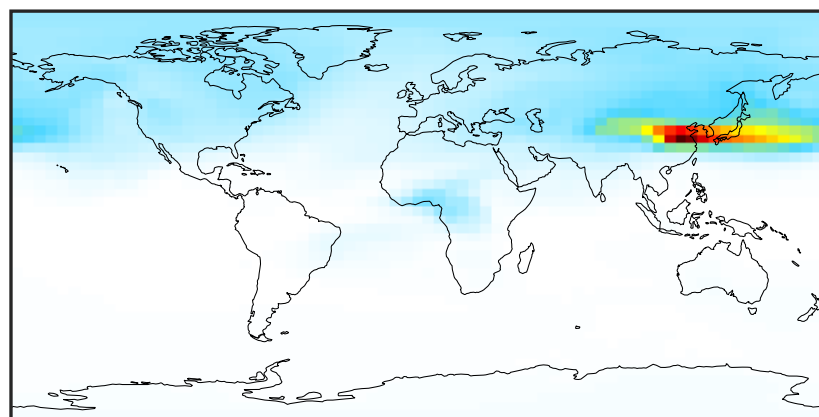


Ratio (1x1.25)  
Dev/Ref, Fixed Range



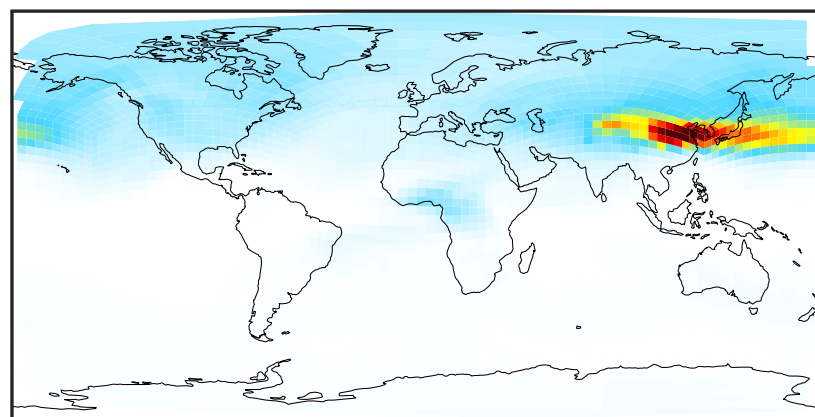
# SpeciesConcVV\_ASOA1 (Jan2019)

GCC\_14.2.0 (Ref)  
4.0x5.0



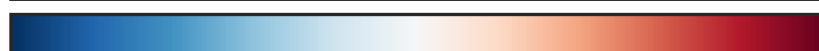
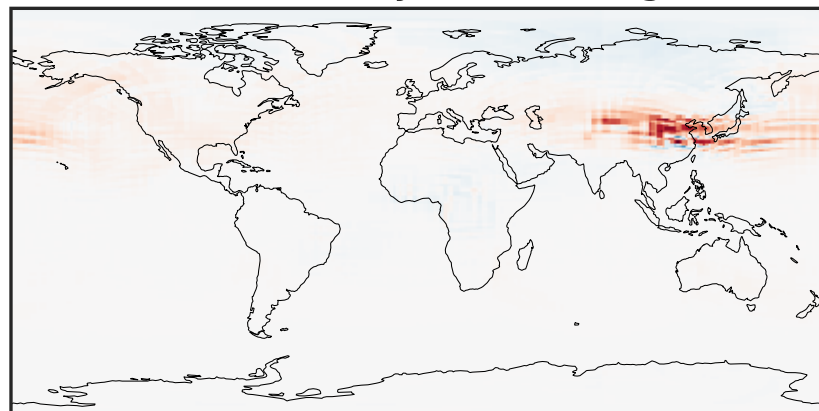
0.002 0.004 0.006  
μg/m3

GCHP\_14.2.0 (Dev)  
c24



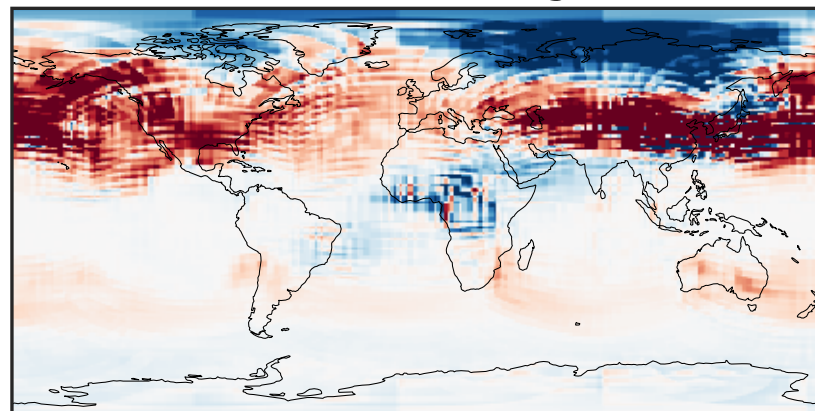
0.002 0.004 0.006  
μg/m3

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



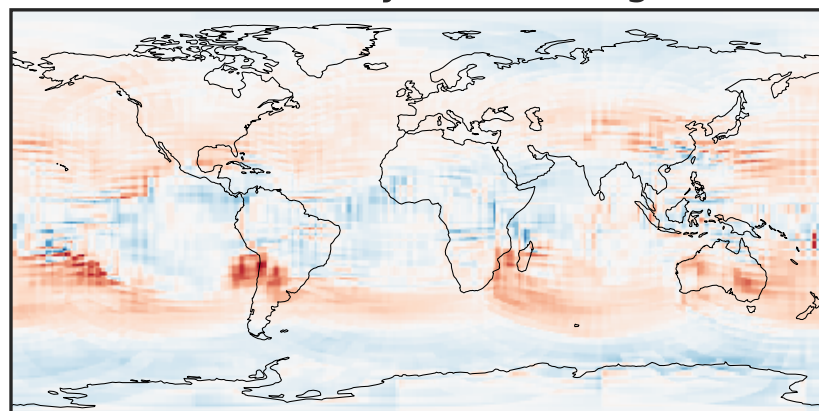
-0.002 0.000 0.002  
μg/m3

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



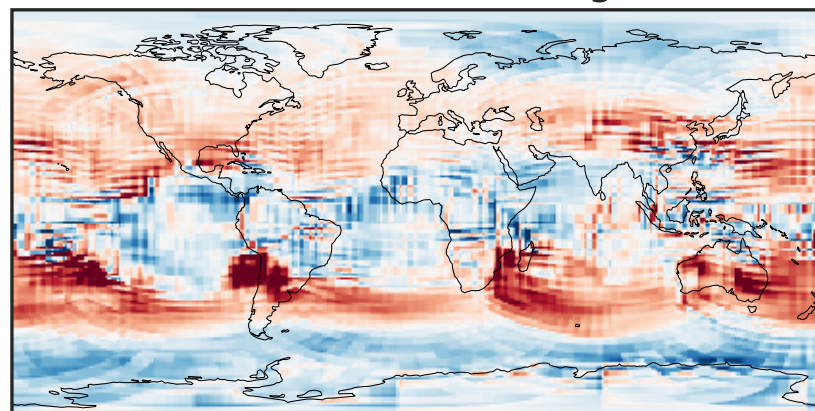
-0.0001 0.0000 0.0001  
μg/m3

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



0.178 0.589 1.000 3.316 5.632  
unitless

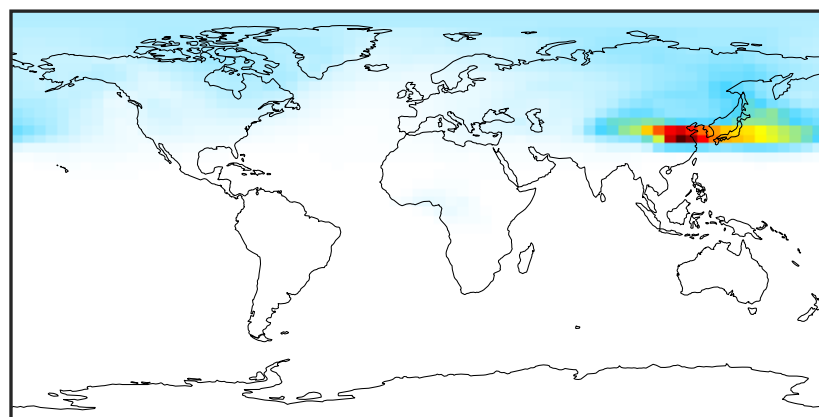
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

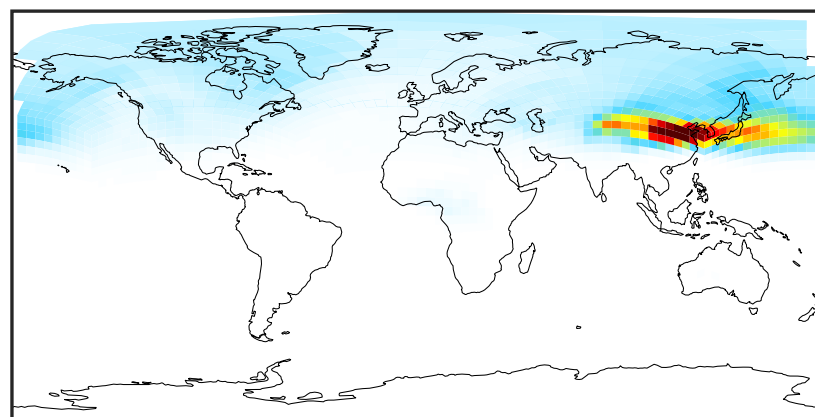
# SpeciesConcVV\_ASOA2 (Jan2019)

GCC\_14.2.0 (Ref)  
4.0x5.0



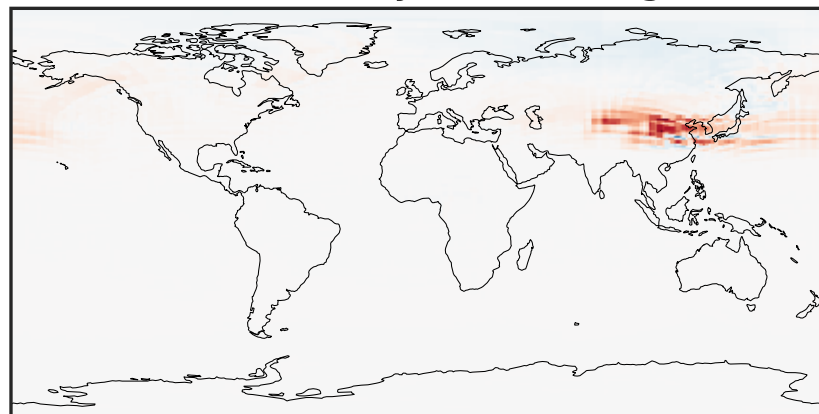
0.0015 0.0030 0.0045  
μg/m3

GCHP\_14.2.0 (Dev)  
c24



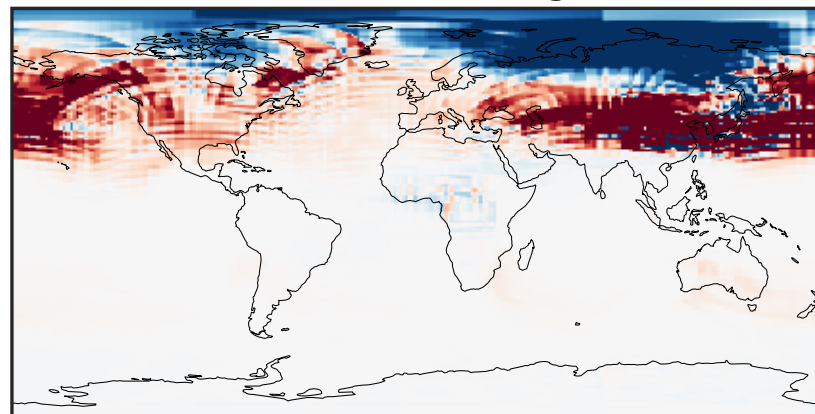
0.0015 0.0030 0.0045  
μg/m3

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



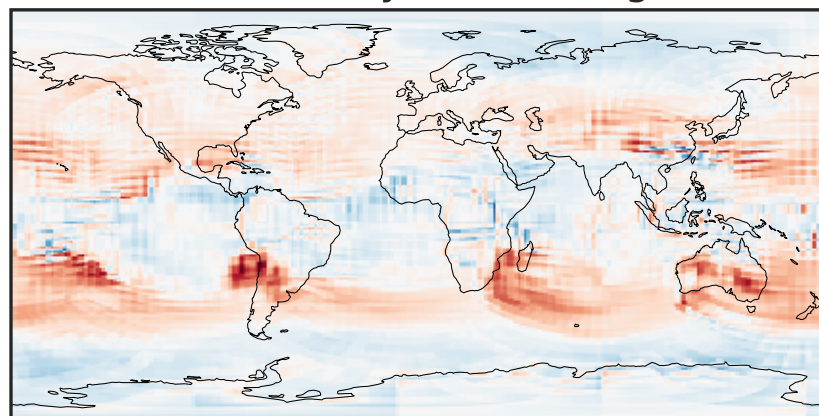
-0.002 0.000 0.002  
μg/m3

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



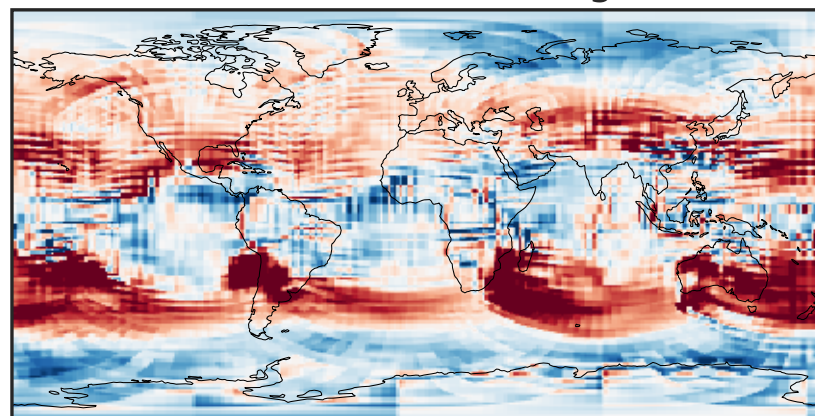
-8 0 8  
μg/m3 1e-5

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



0.126 0.563 1.000 4.466 7.933  
unitless

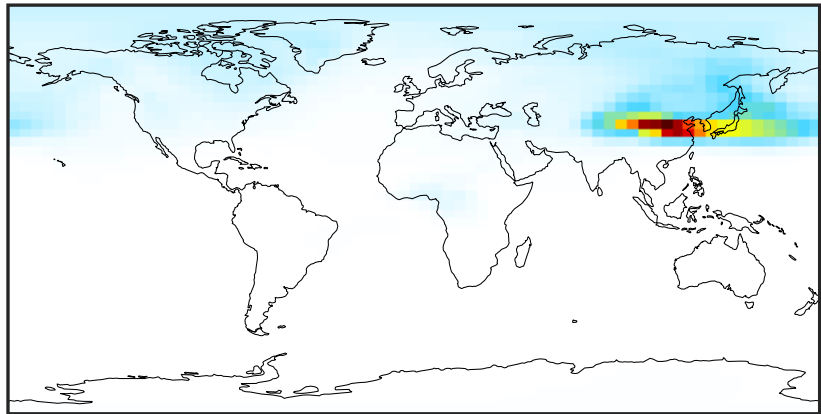
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

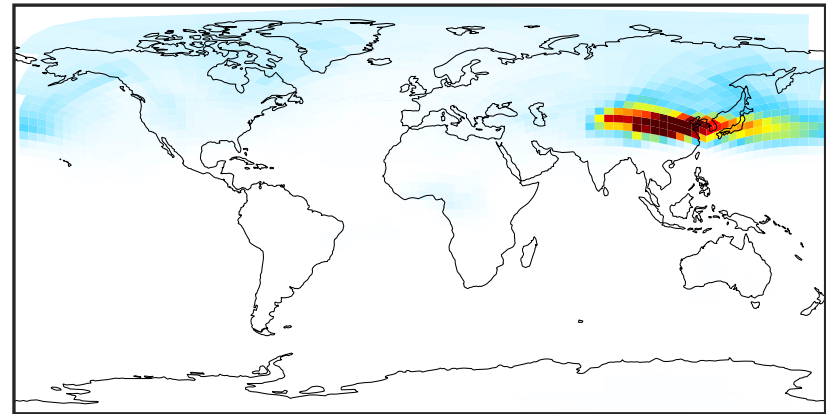
# SpeciesConcVV\_ASOA3 (Jan2019)

GCC\_14.2.0 (Ref)  
4.0x5.0



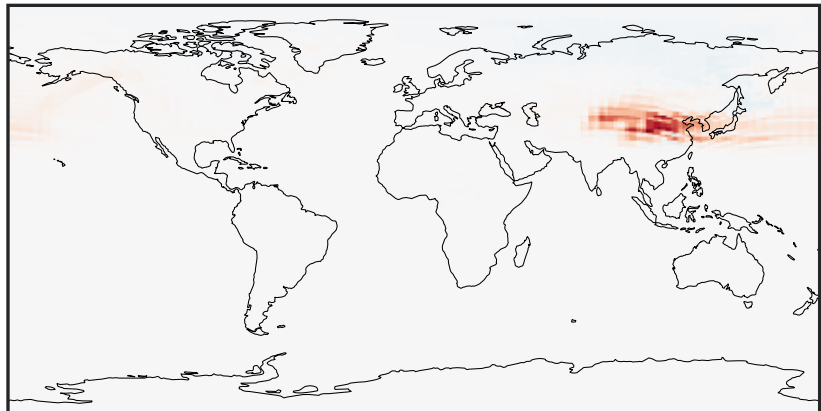
0.002 0.004 0.006  
 $\mu\text{g}/\text{m}^3$

GCHP\_14.2.0 (Dev)  
c24



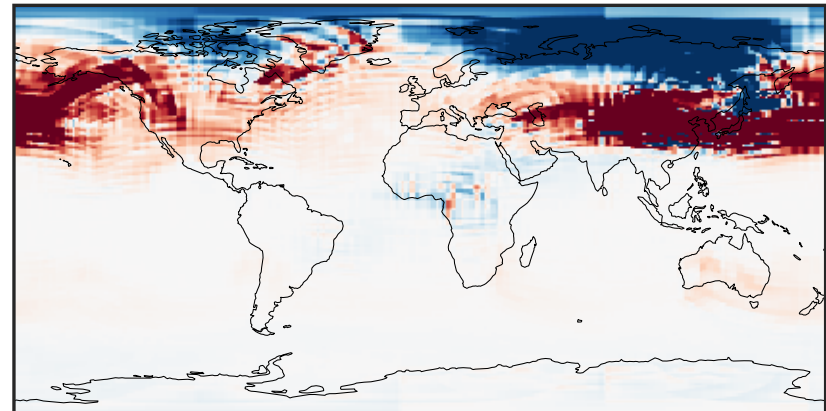
0.002 0.004 0.006  
 $\mu\text{g}/\text{m}^3$

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



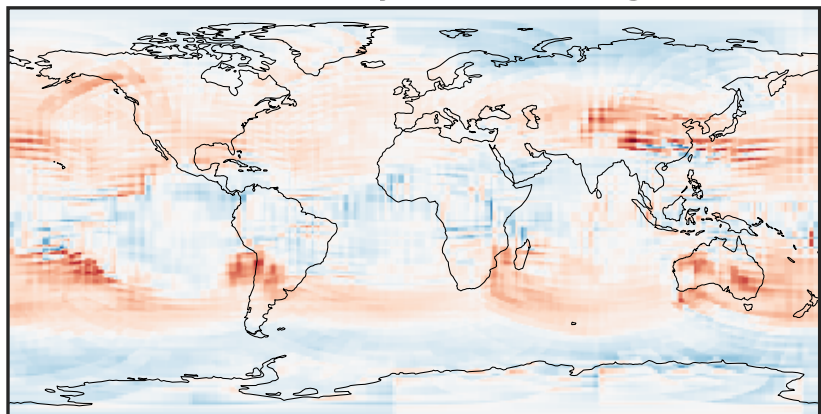
-0.003 0.000 0.003  
 $\mu\text{g}/\text{m}^3$

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



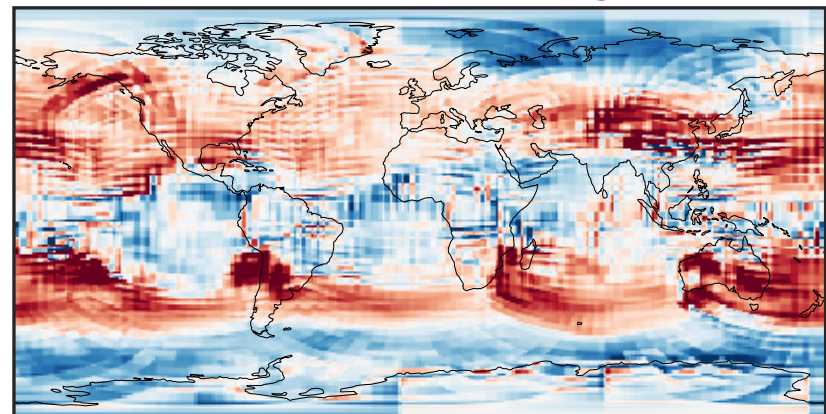
-6 0 6  
 $\mu\text{g}/\text{m}^3$   $1\text{e}-5$

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



0.133 0.567 1.000 4.251 7.501  
unitless

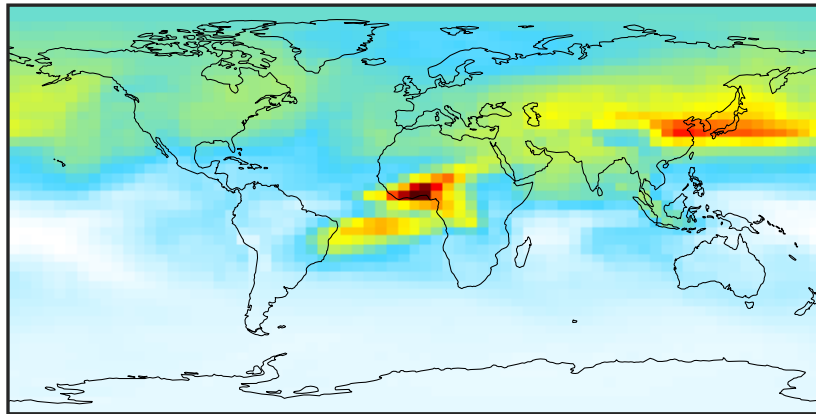
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

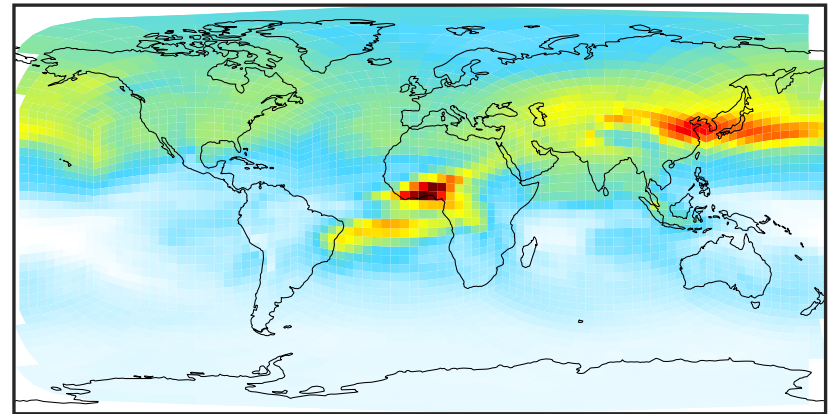
# SpeciesConcVV\_ASOAN (Jan2019)

GCC\_14.2.0 (Ref)  
4.0x5.0



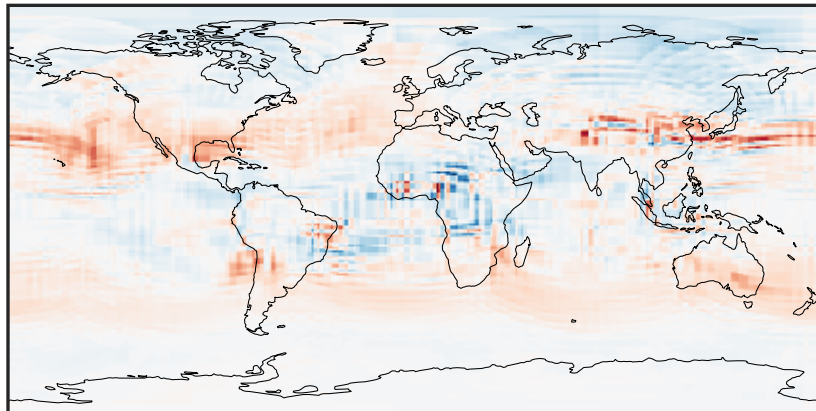
0.005 0.010 0.015  
 $\mu\text{g}/\text{m}^3$

GCHP\_14.2.0 (Dev)  
c24



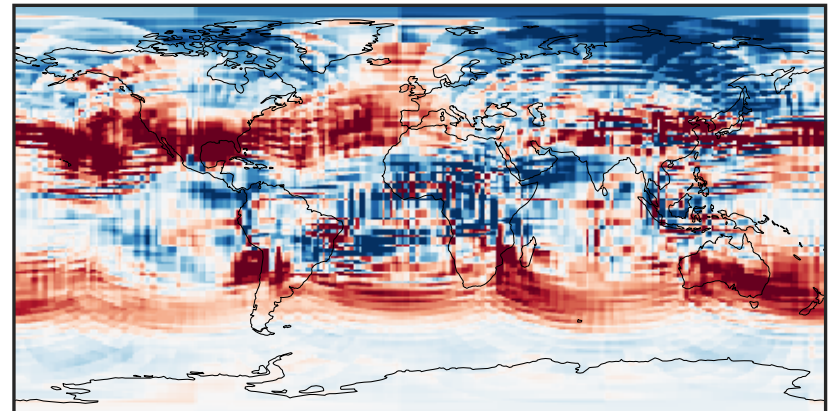
0.005 0.010 0.015  
 $\mu\text{g}/\text{m}^3$

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



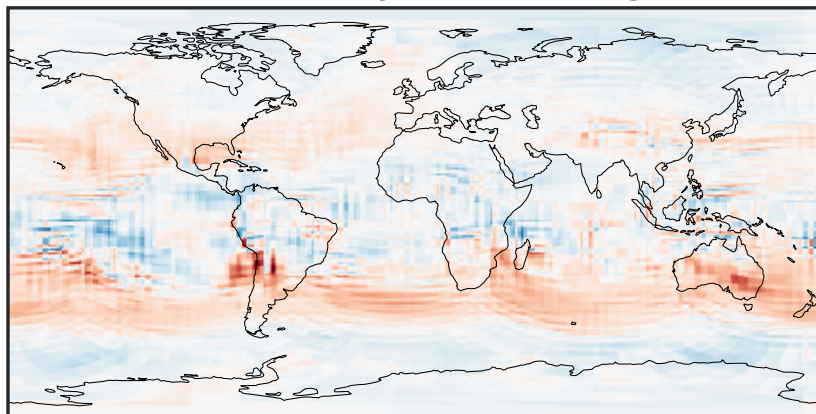
-0.0015 0.0000 0.0015  
 $\mu\text{g}/\text{m}^3$

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



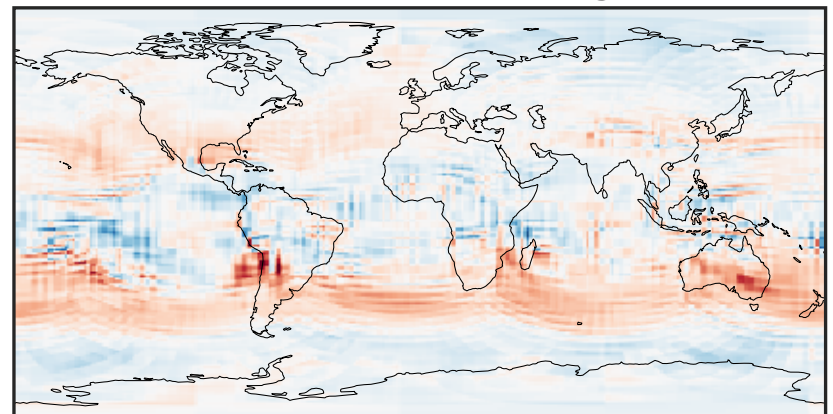
-0.0003 0.0000 0.0003  
 $\mu\text{g}/\text{m}^3$

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



0.462 0.731 1.000 1.582 2.163  
unitless

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

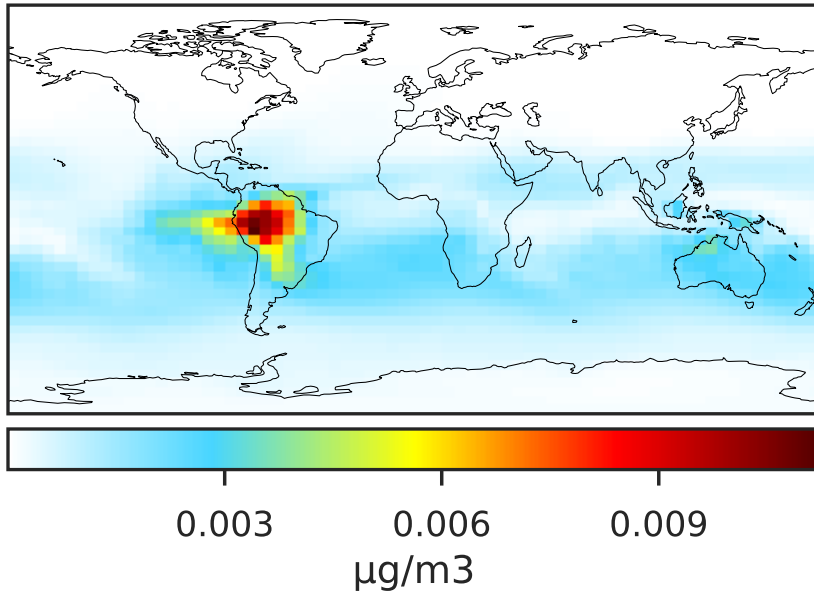


0.50 0.75 1.00 1.50 2.00  
unitless

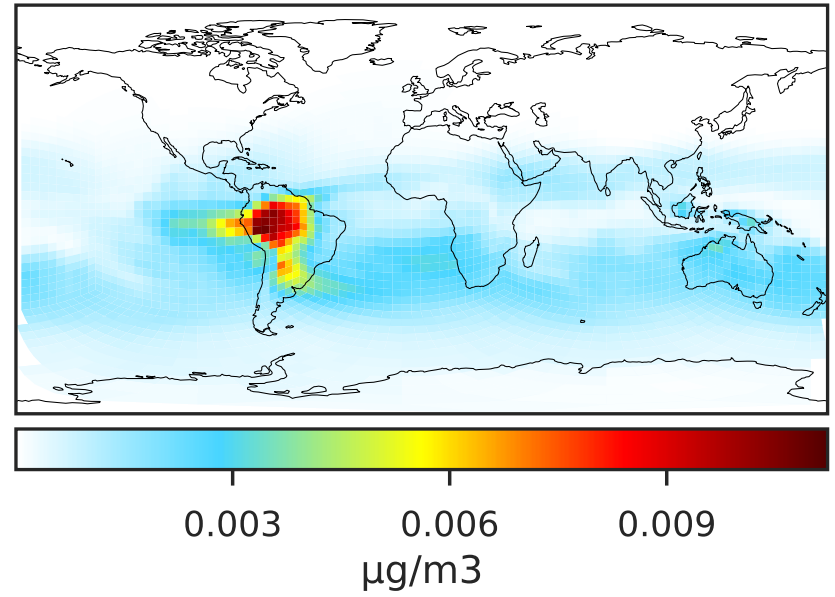


# SpeciesConcVV\_TSOG0 (Jan2019)

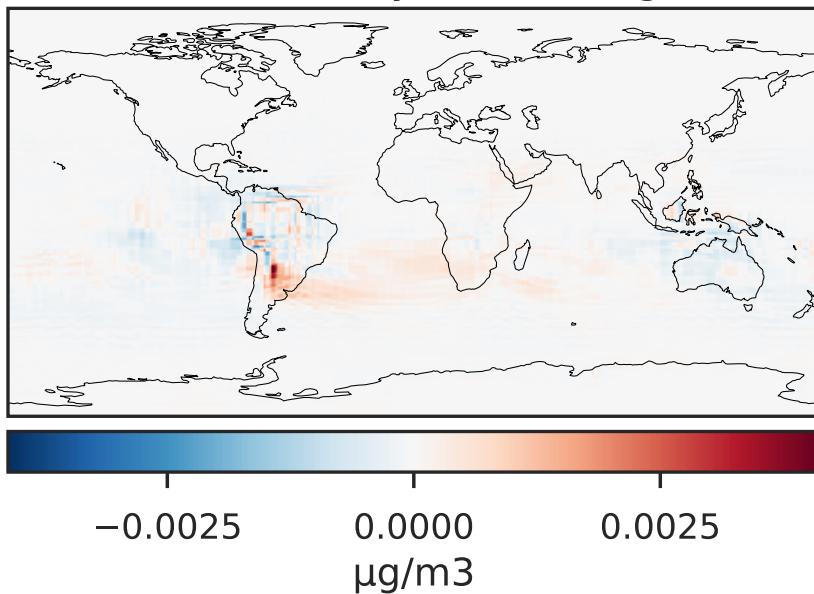
GCC\_14.2.0 (Ref)  
4.0x5.0



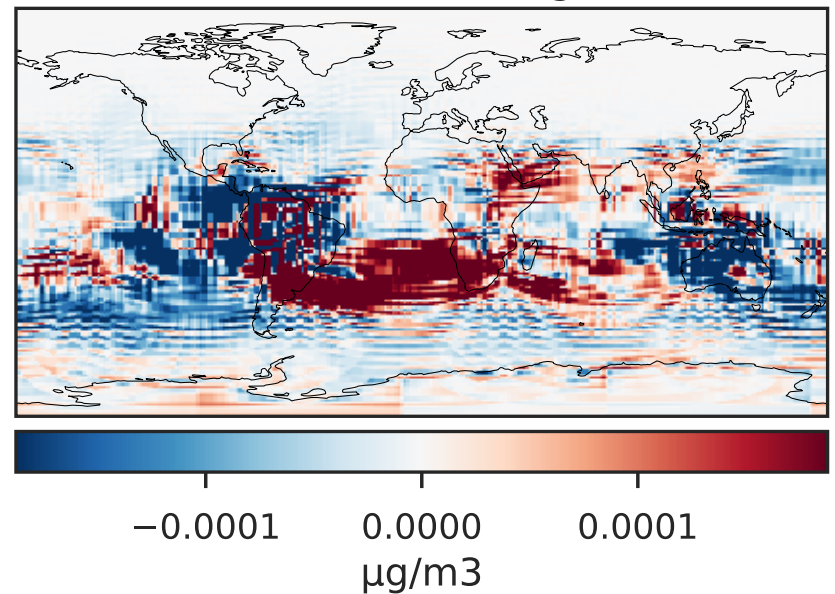
GCHP\_14.2.0 (Dev)  
c24



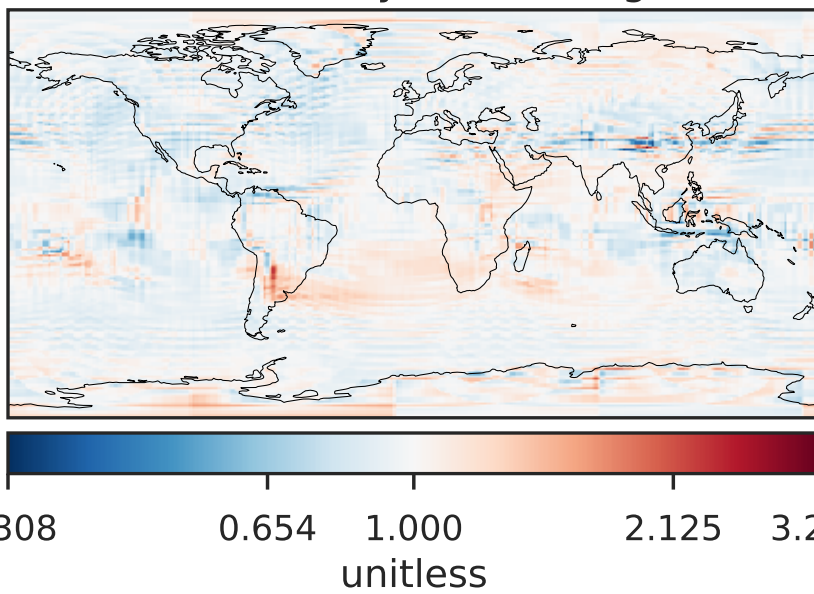
Difference (1x1.25)  
Dev - Ref, Dynamic Range



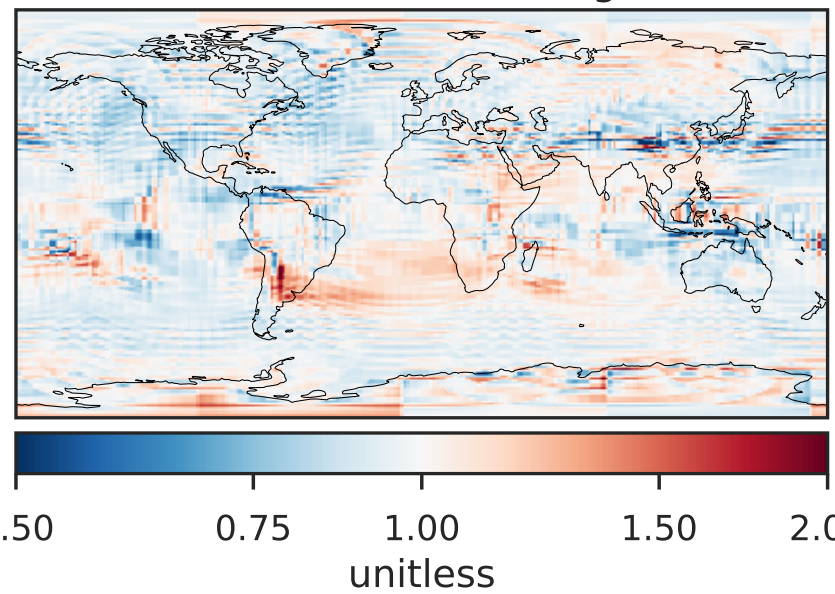
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

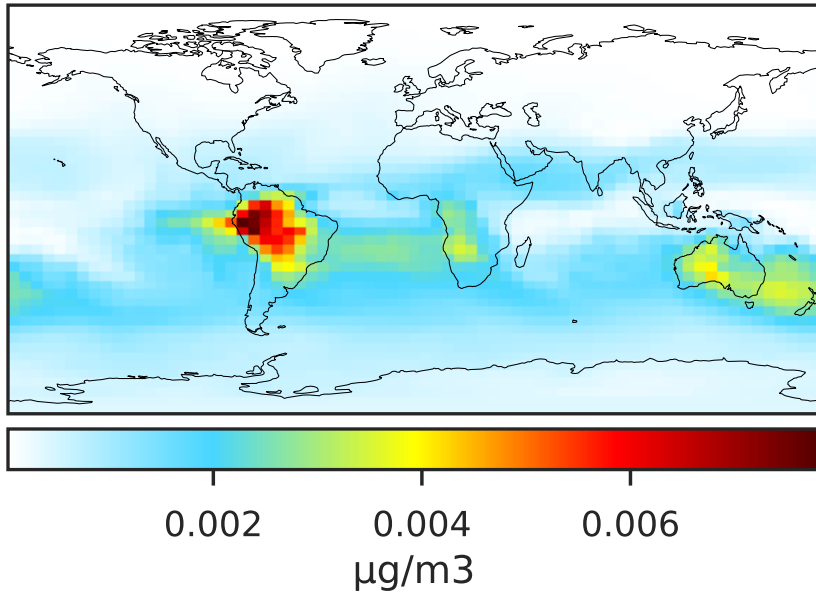


Ratio (1x1.25)  
Dev/Ref, Fixed Range

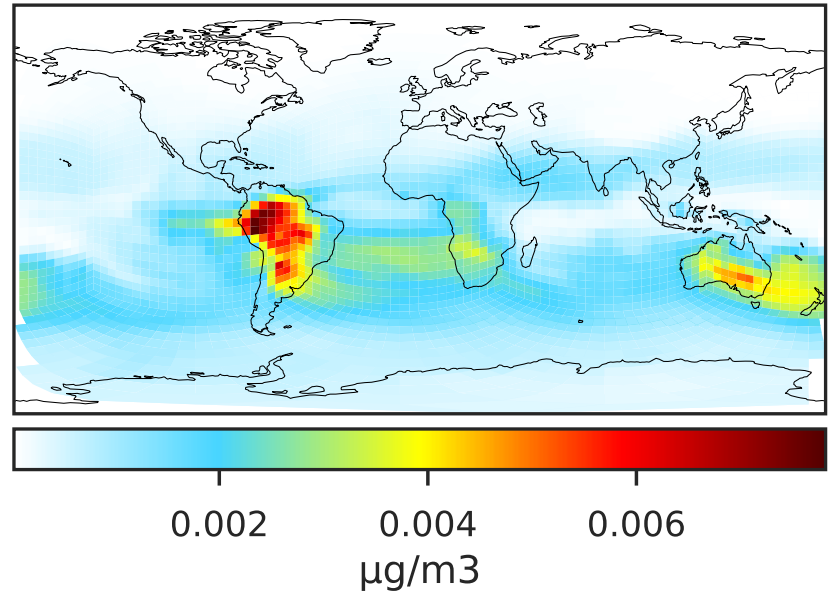


# SpeciesConcVV\_TSOG1 (Jan2019)

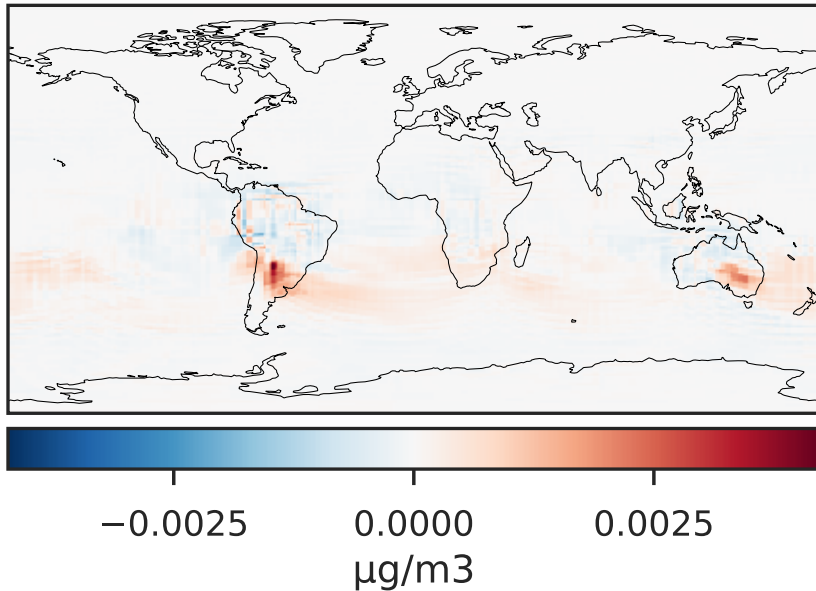
GCC\_14.2.0 (Ref)  
4.0x5.0



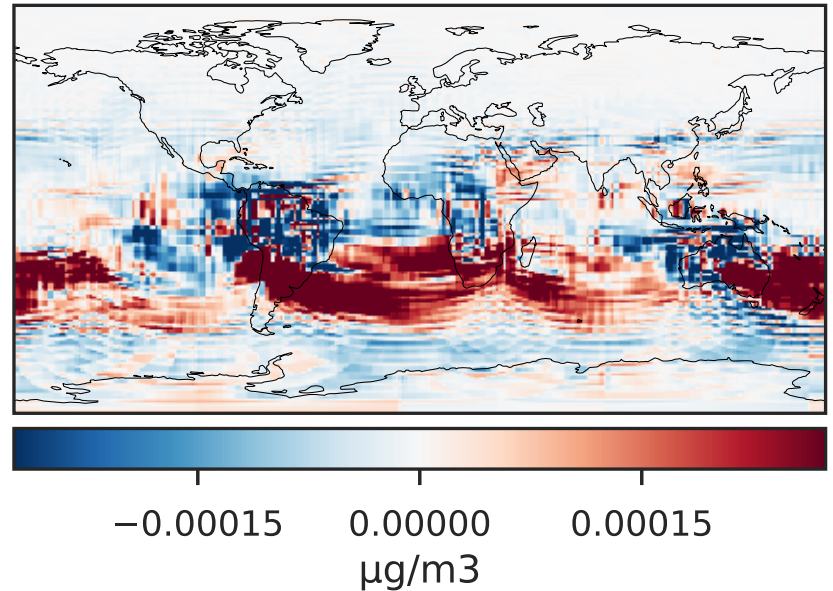
GCHP\_14.2.0 (Dev)  
c24



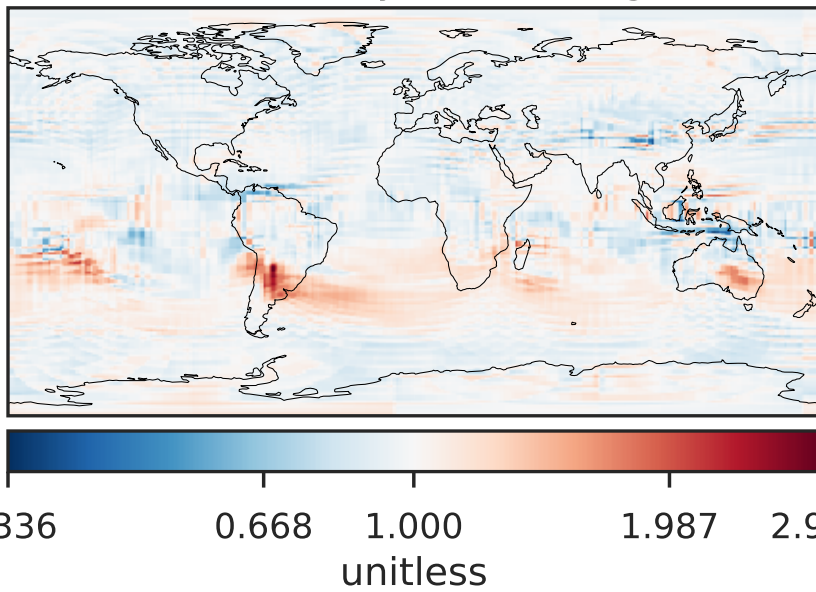
Difference (1x1.25)  
Dev - Ref, Dynamic Range



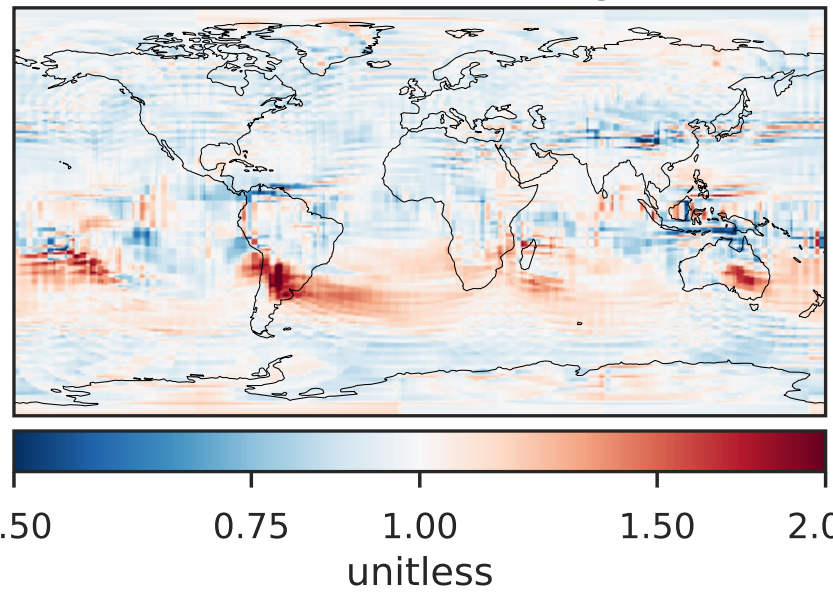
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

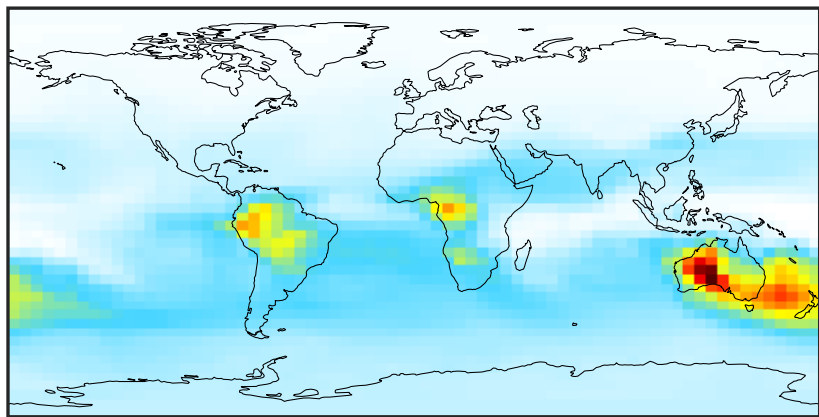


Ratio (1x1.25)  
Dev/Ref, Fixed Range



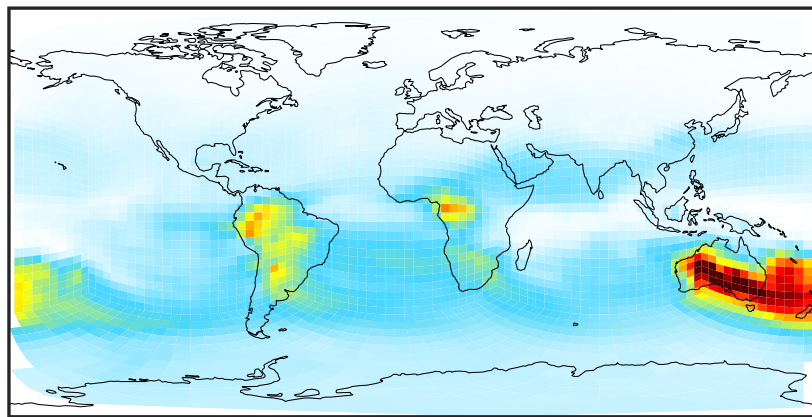
# SpeciesConcVV\_TSOG2 (Jan2019)

GCC\_14.2.0 (Ref)  
4.0x5.0



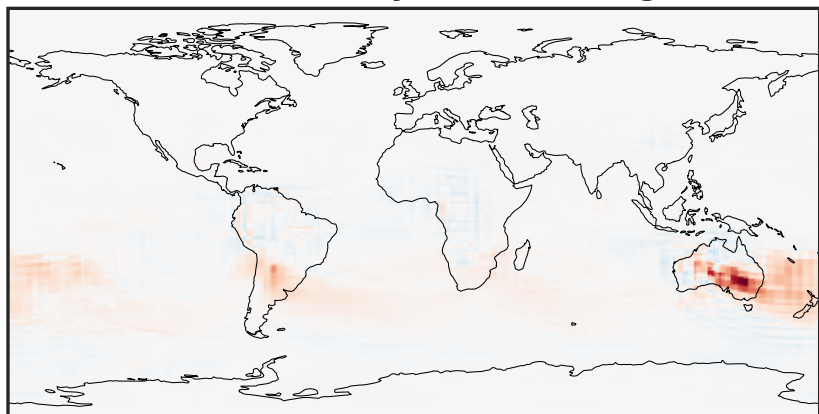
0.0007 0.0268 0.0537 0.0805 0.1081  
 $\mu\text{g}/\text{m}^3$

GCHP\_14.2.0 (Dev)  
c24



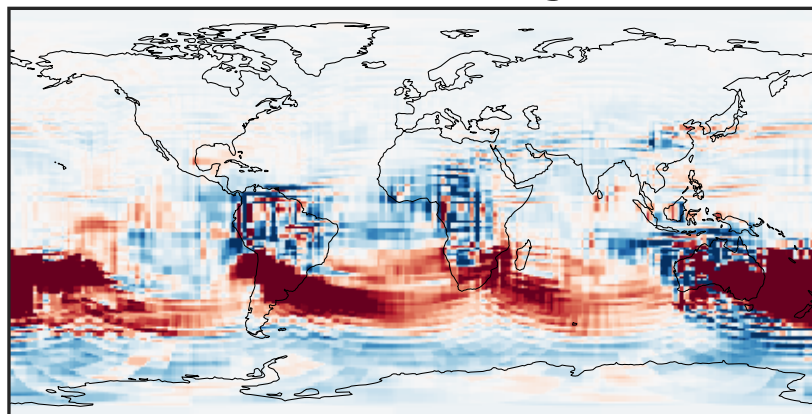
0.0007 0.0268 0.0537 0.0805 0.1081  
 $\mu\text{g}/\text{m}^3$

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



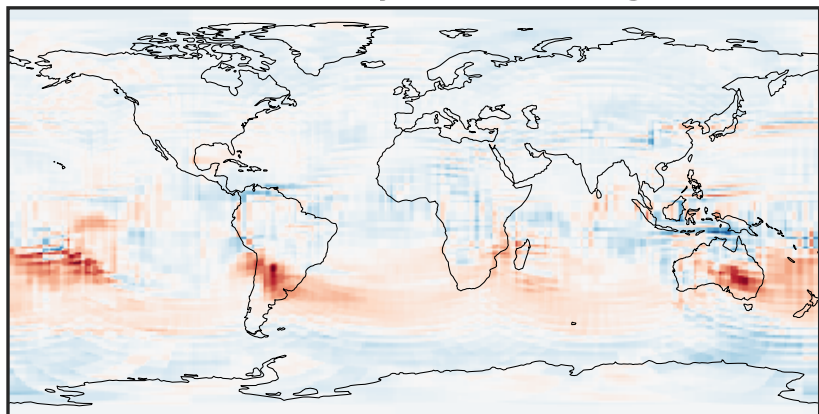
-0.0891 -0.0445 0.0000 0.0445 0.0891  
 $\mu\text{g}/\text{m}^3$

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



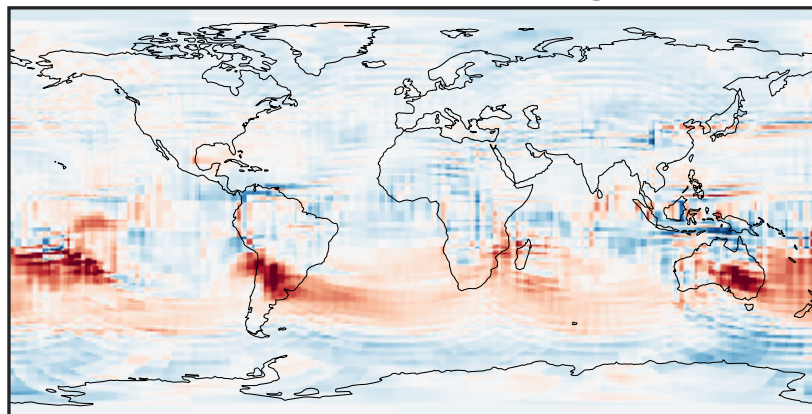
-0.003 0.000 0.003  
 $\mu\text{g}/\text{m}^3$

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



0.333 0.667 1.000 2.001 3.002  
unitless

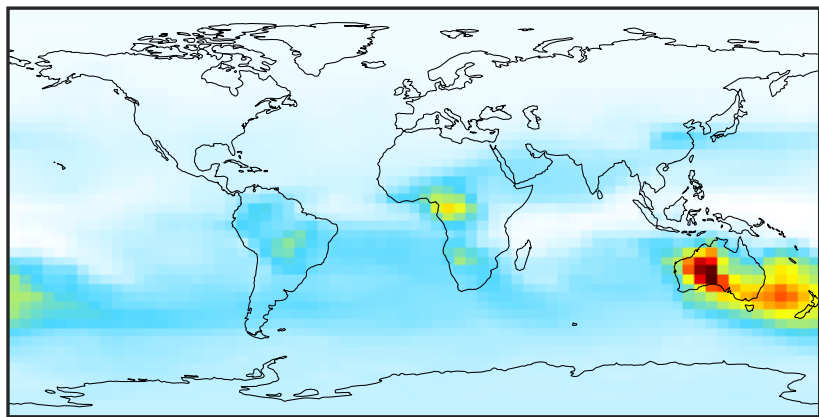
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

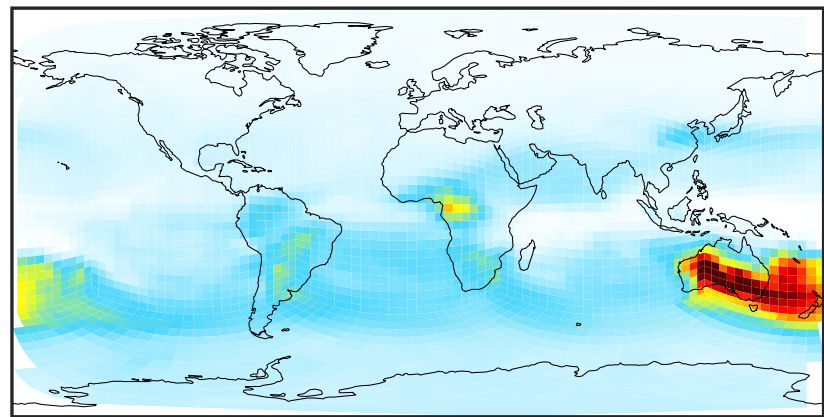
# SpeciesConcVV\_TSOG3 (Jan2019)

GCC\_14.2.0 (Ref)  
4.0x5.0



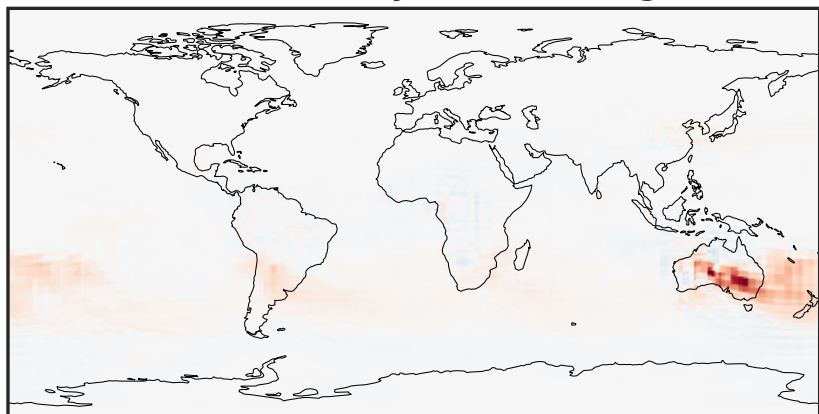
0.0010 0.0566 0.1132 0.1698 0.2274  
 $\mu\text{g}/\text{m}^3$

GCHP\_14.2.0 (Dev)  
c24



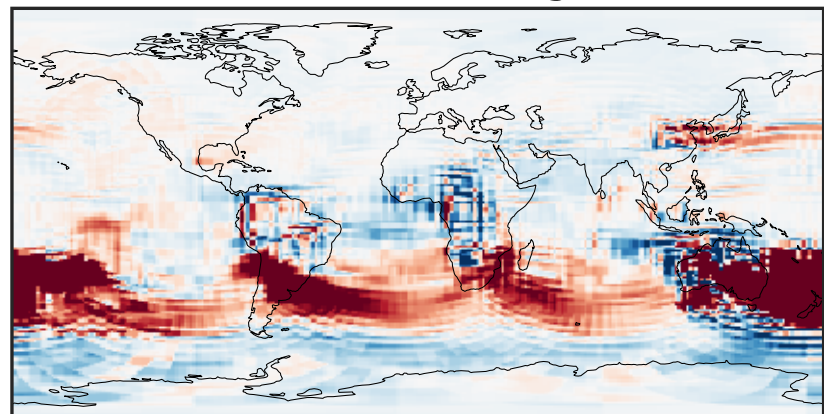
0.0010 0.0566 0.1132 0.1698 0.2274  
 $\mu\text{g}/\text{m}^3$

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



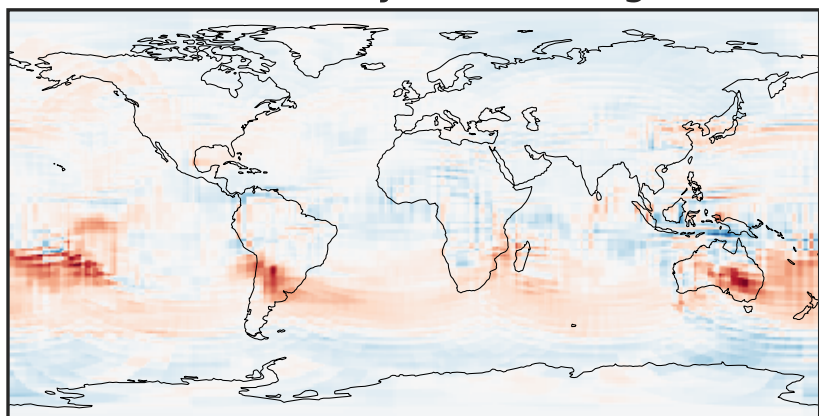
-0.2185 -0.1092 0.0000 0.1092 0.2185  
 $\mu\text{g}/\text{m}^3$

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



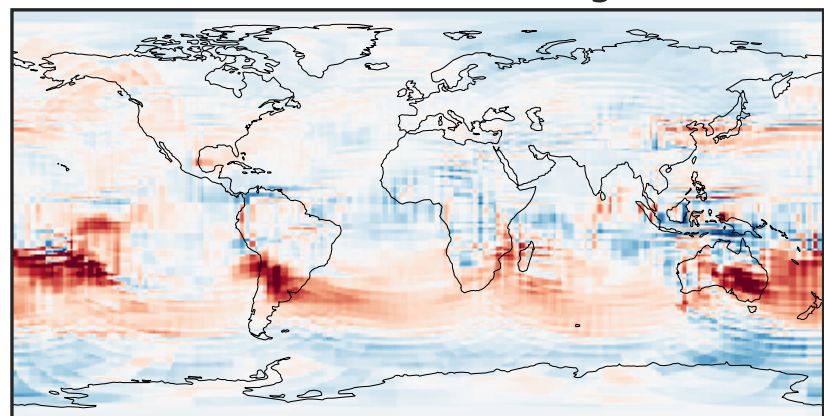
-0.006 0.000 0.006  
 $\mu\text{g}/\text{m}^3$

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



0.302 0.651 1.000 2.155 3.310  
unitless

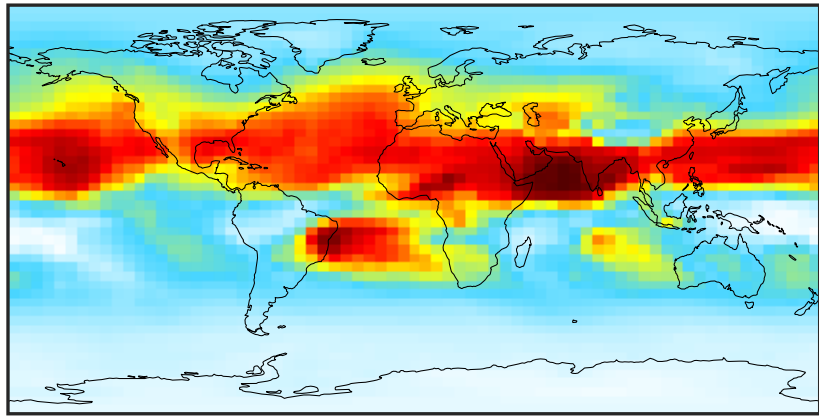
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

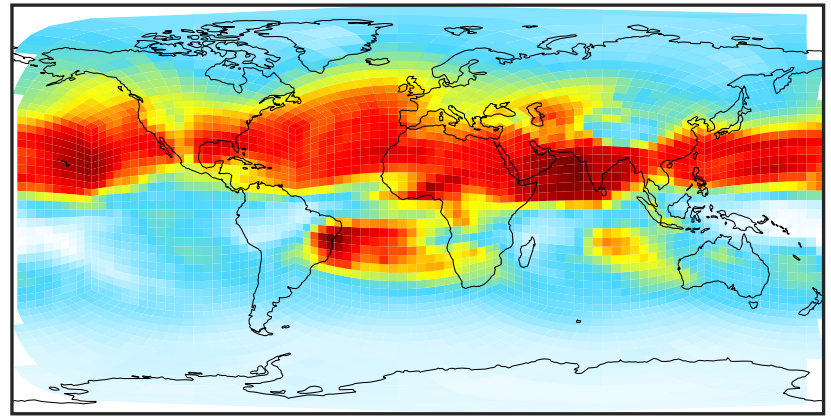
# SpeciesConcVV\_ASOG1 (Jan2019)

GCC\_14.2.0 (Ref)  
4.0x5.0



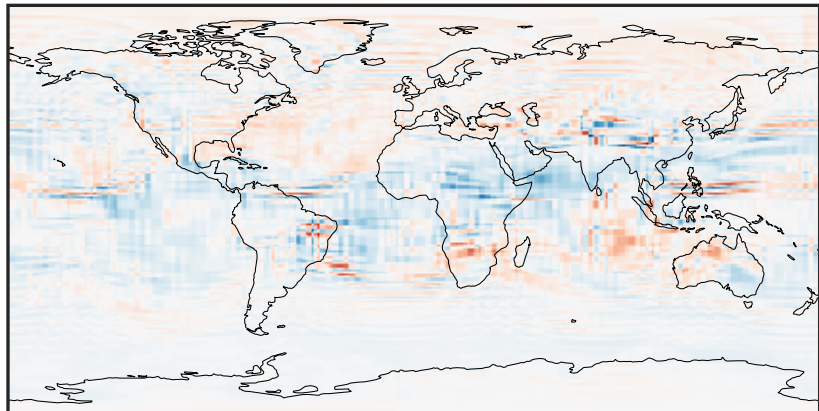
0.0004 0.0008 0.0012 0.0016  
μg/m3

GCHP\_14.2.0 (Dev)  
c24



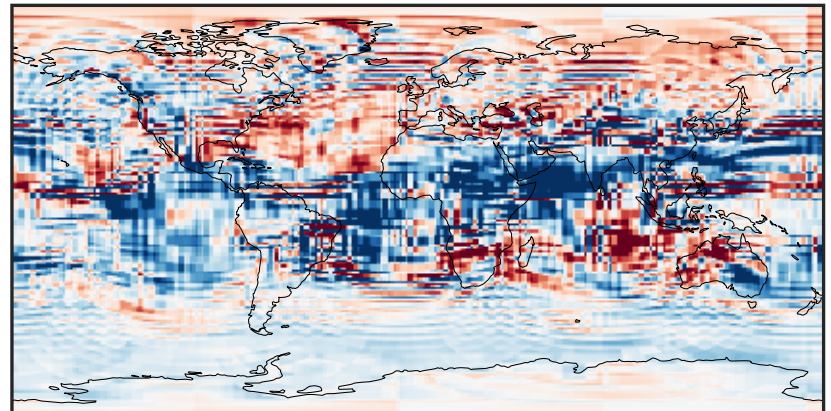
0.0004 0.0008 0.0012 0.0016  
μg/m3

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



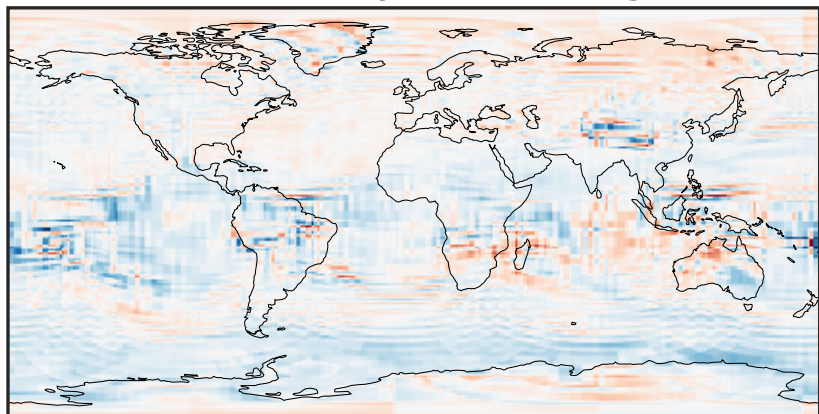
-0.0002 0.0000 0.0002  
μg/m3

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



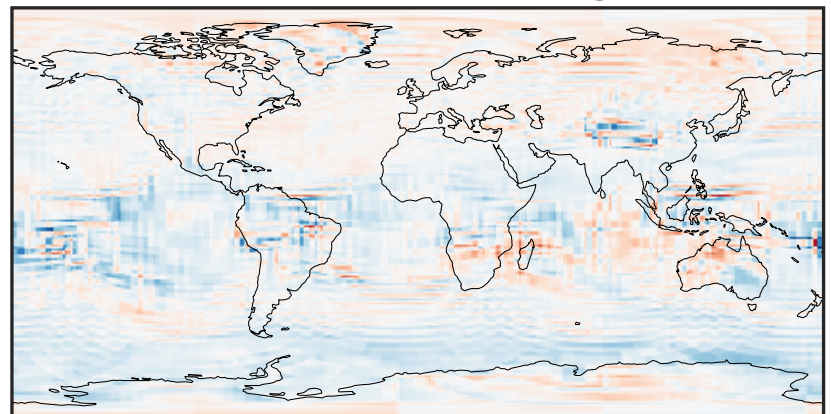
-4 0 4  
μg/m3 1e-5

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



0.539 0.770 1.000 1.427 1.854  
unitless

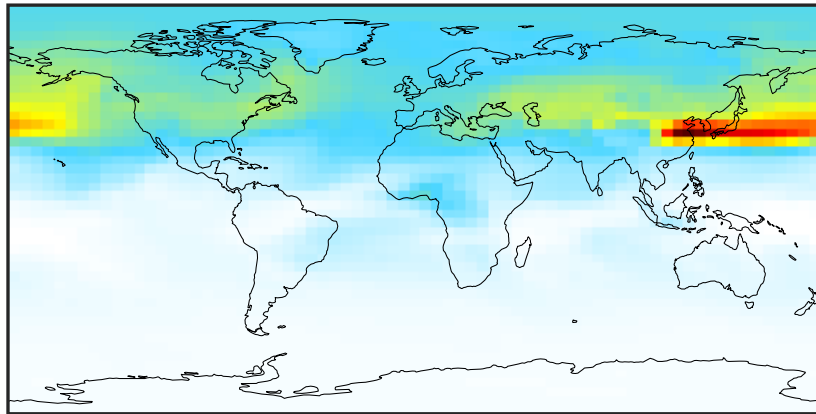
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

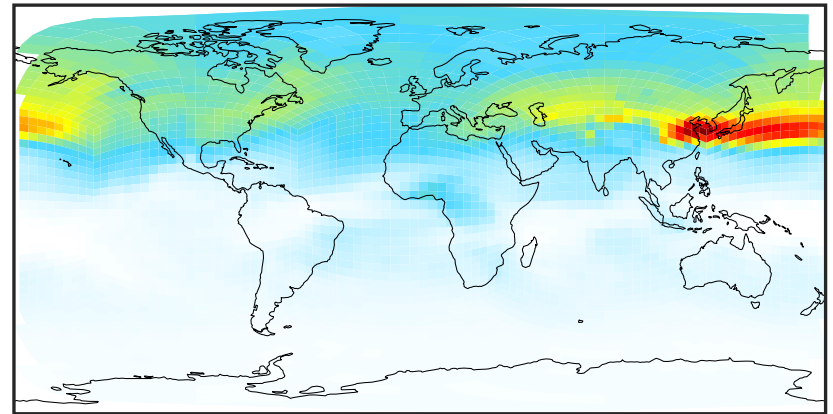
# SpeciesConcVV\_ASOG2 (Jan2019)

GCC\_14.2.0 (Ref)  
4.0x5.0



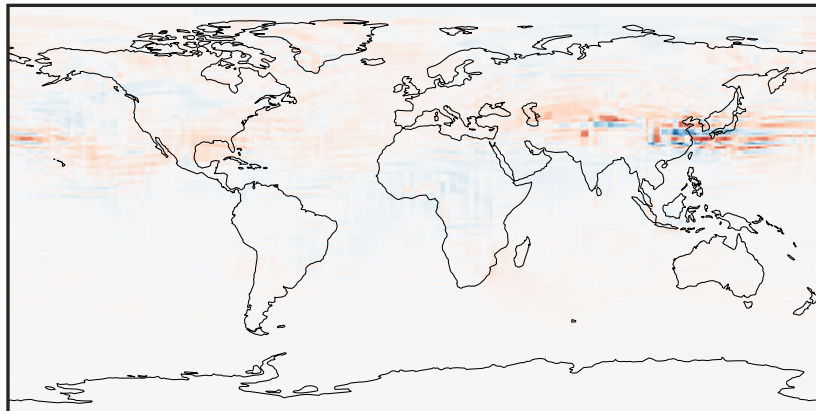
0.0015 0.0030 0.0045  
 $\mu\text{g}/\text{m}^3$

GCHP\_14.2.0 (Dev)  
c24



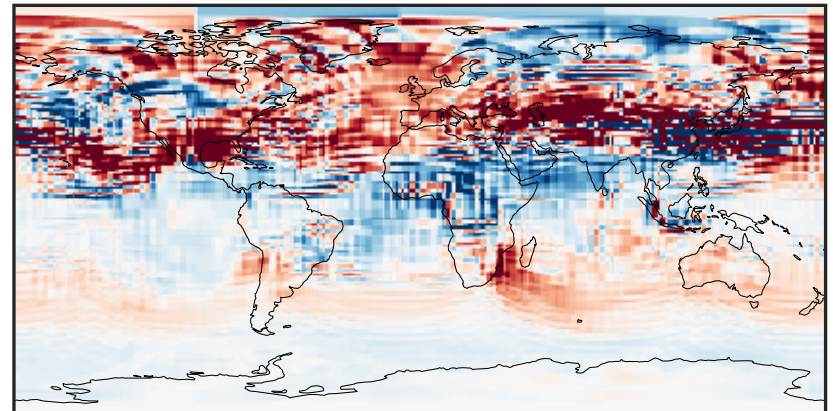
0.0015 0.0030 0.0045  
 $\mu\text{g}/\text{m}^3$

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



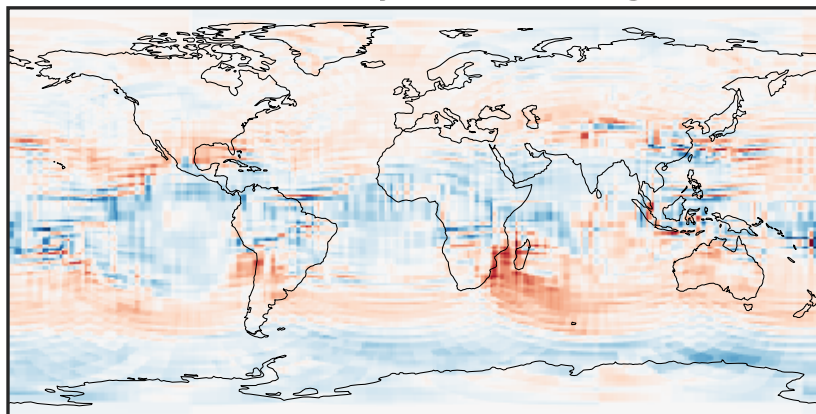
-0.001 0.000 0.001  
 $\mu\text{g}/\text{m}^3$

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



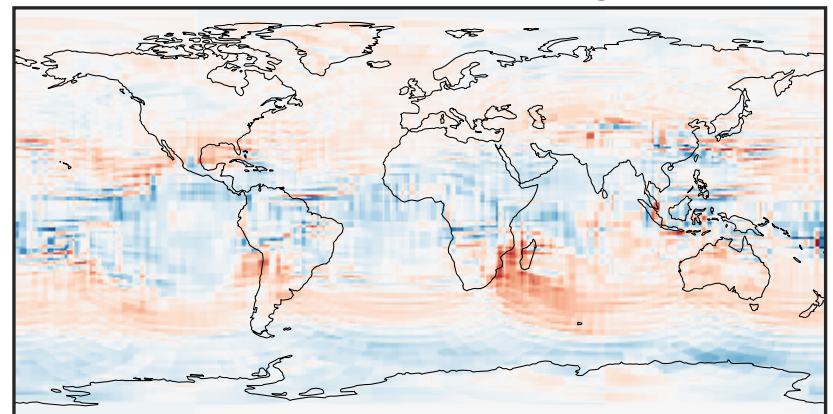
-8 0 8  
 $\mu\text{g}/\text{m}^3$   $1\text{e}-5$

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



0.532 0.766 1.000 1.439 1.879  
unitless

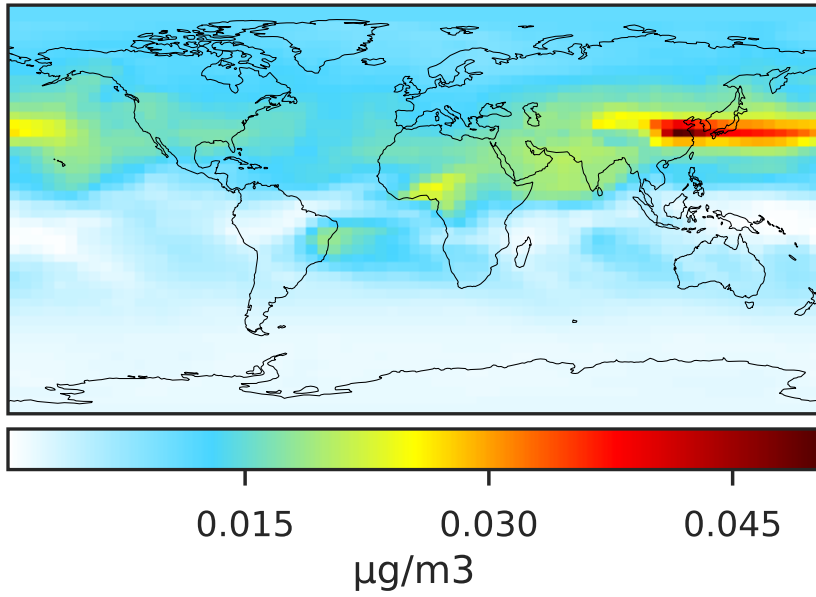
Ratio (1x1.25)  
Dev/Ref, Fixed Range



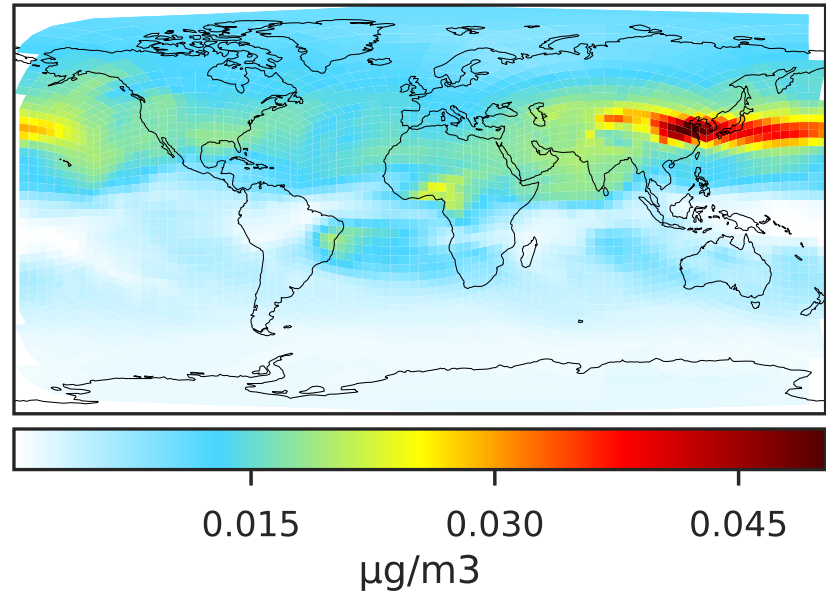
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_ASOG3 (Jan2019)

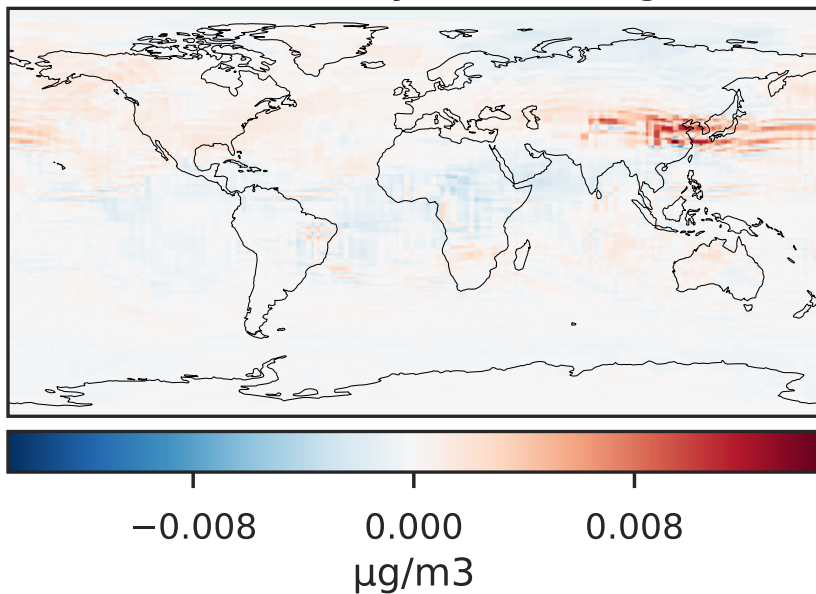
GCC\_14.2.0 (Ref)  
4.0x5.0



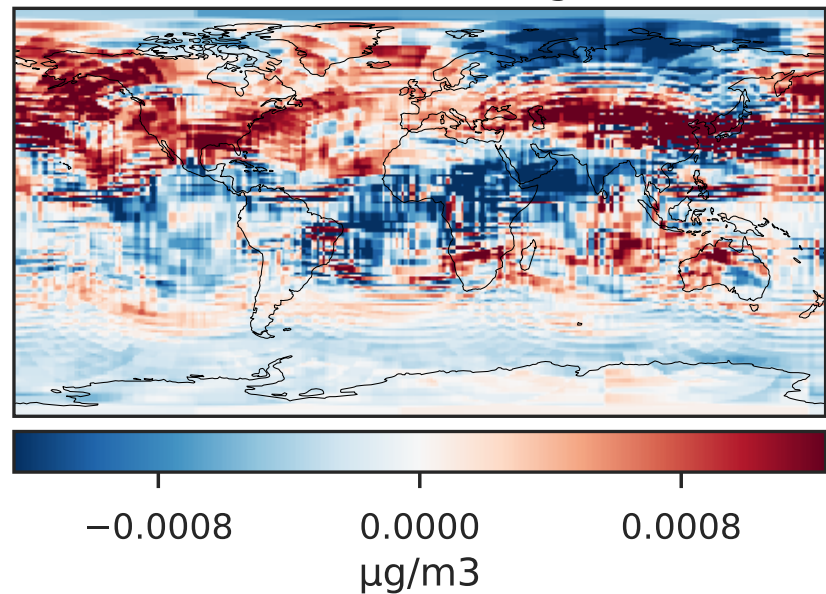
GCHP\_14.2.0 (Dev)  
c24



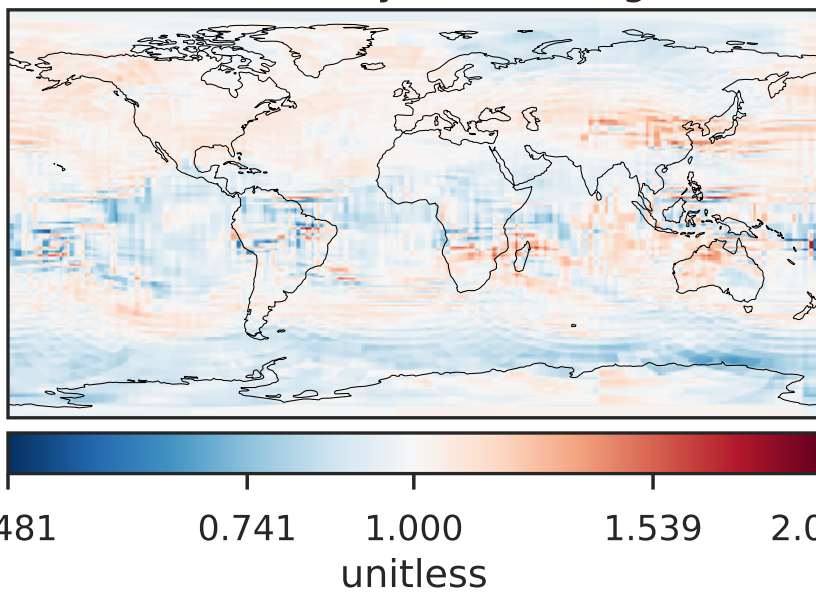
Difference (1x1.25)  
Dev - Ref, Dynamic Range



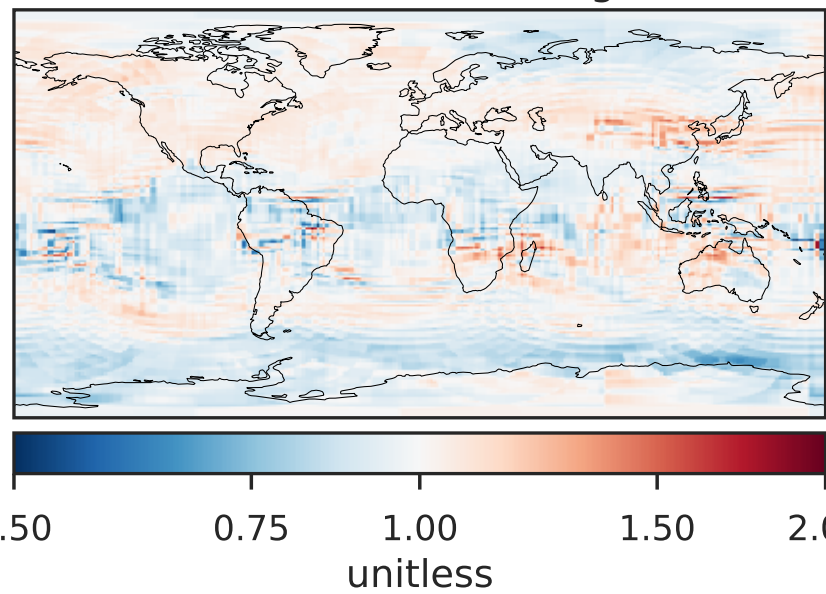
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

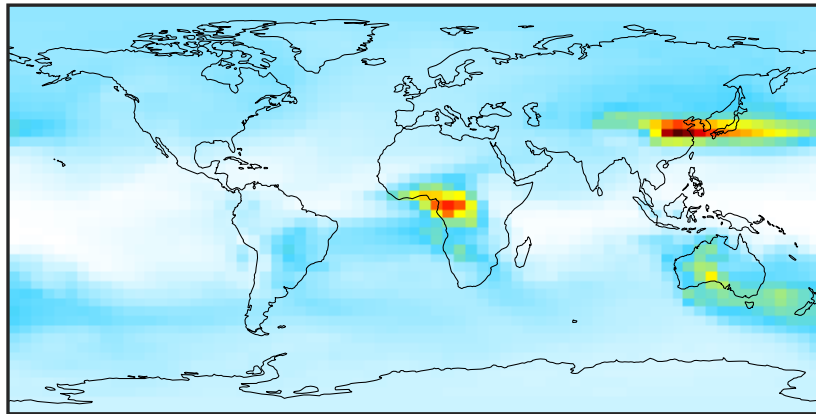


Ratio (1x1.25)  
Dev/Ref, Fixed Range



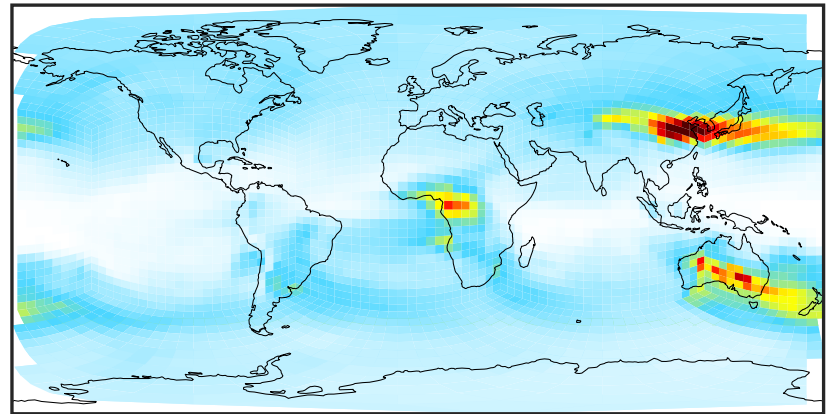
# SpeciesConcVV\_INDIOL (Jan2019)

GCC\_14.2.0 (Ref)  
4.0x5.0



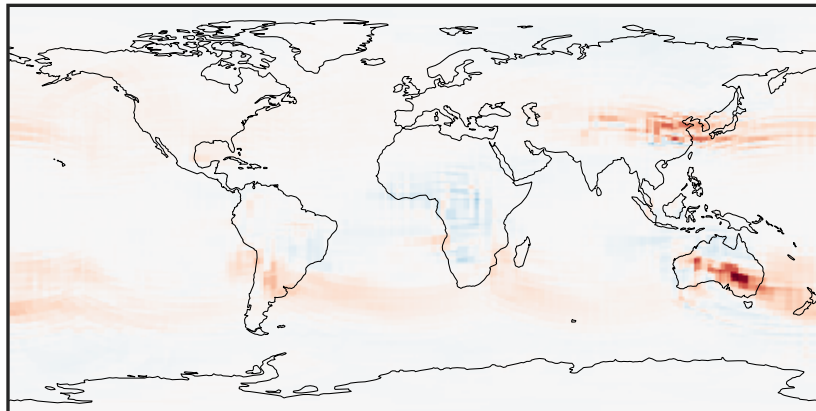
0.0002 0.0377 0.0754 0.1130 0.1510  
 $\mu\text{g}/\text{m}^3$

GCHP\_14.2.0 (Dev)  
c24



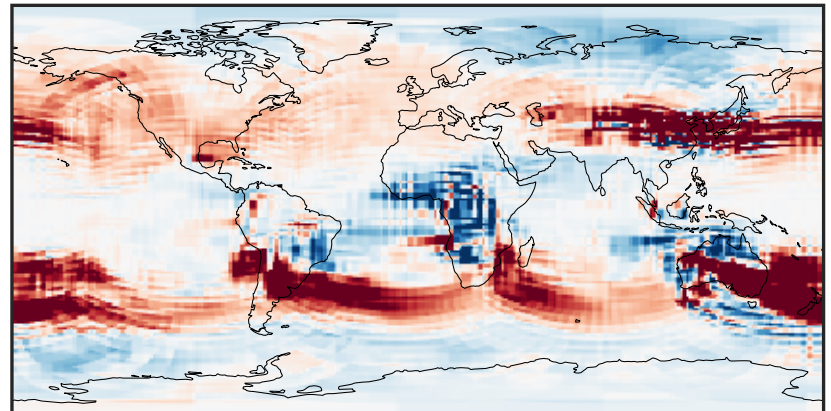
0.0002 0.0377 0.0754 0.1130 0.1510  
 $\mu\text{g}/\text{m}^3$

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



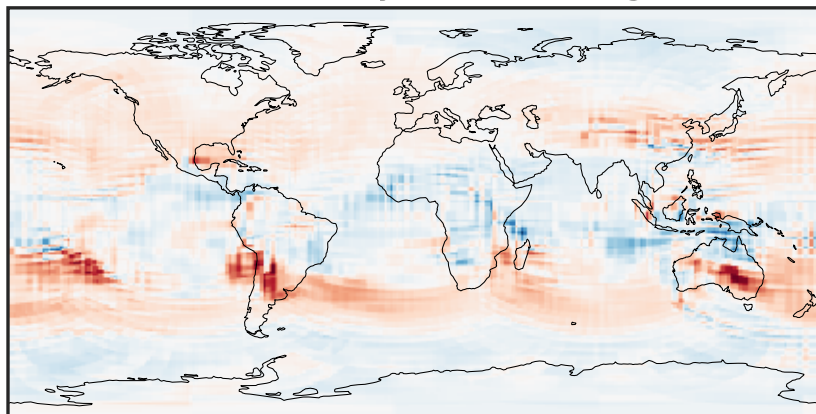
-0.0933 -0.0467 0.0000 0.0467 0.0933  
 $\mu\text{g}/\text{m}^3$

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



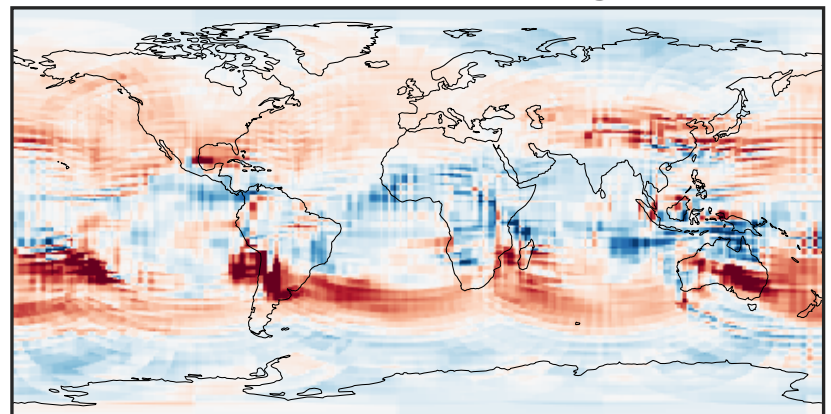
-0.005 0.000 0.005  
 $\mu\text{g}/\text{m}^3$

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



0.256 0.628 1.000 2.451 3.903  
unitless

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

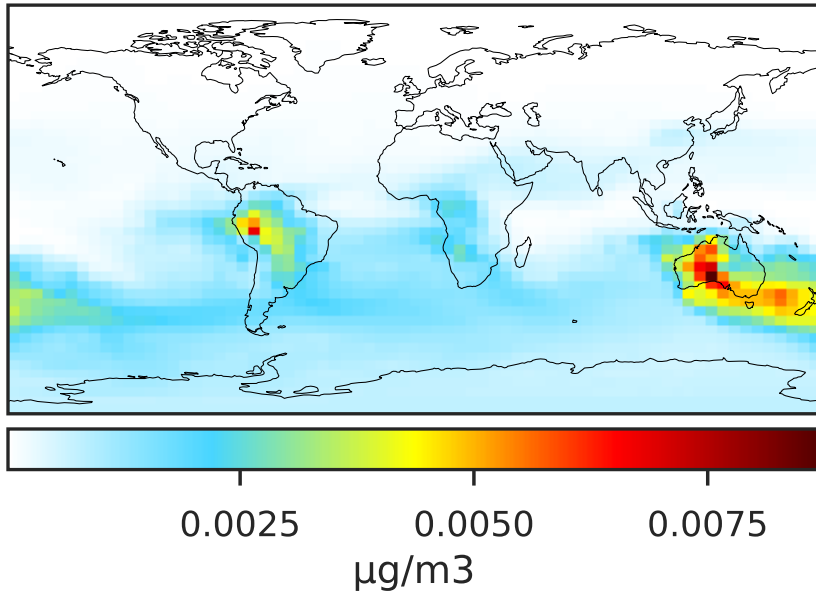


0.50 0.75 1.00 1.50 2.00  
unitless

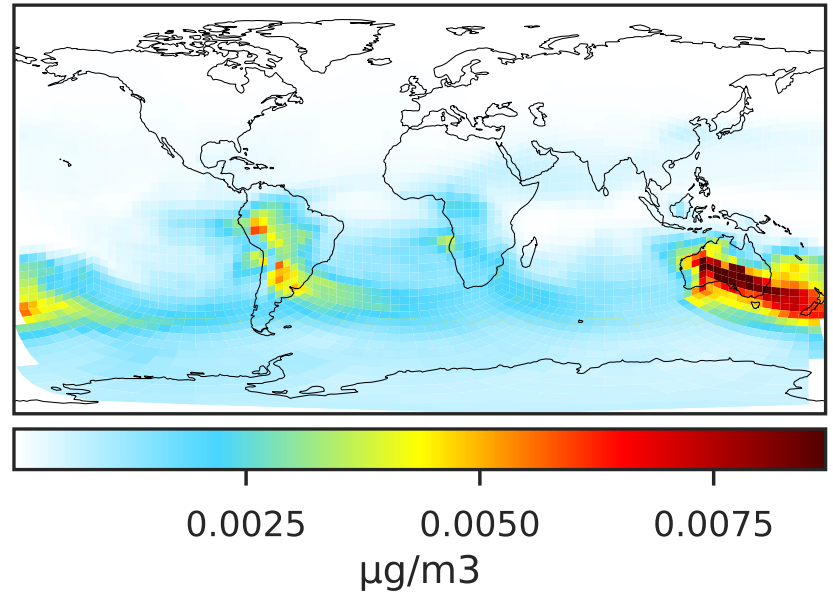


# SpeciesConcVV\_LVOCOA (Jan2019)

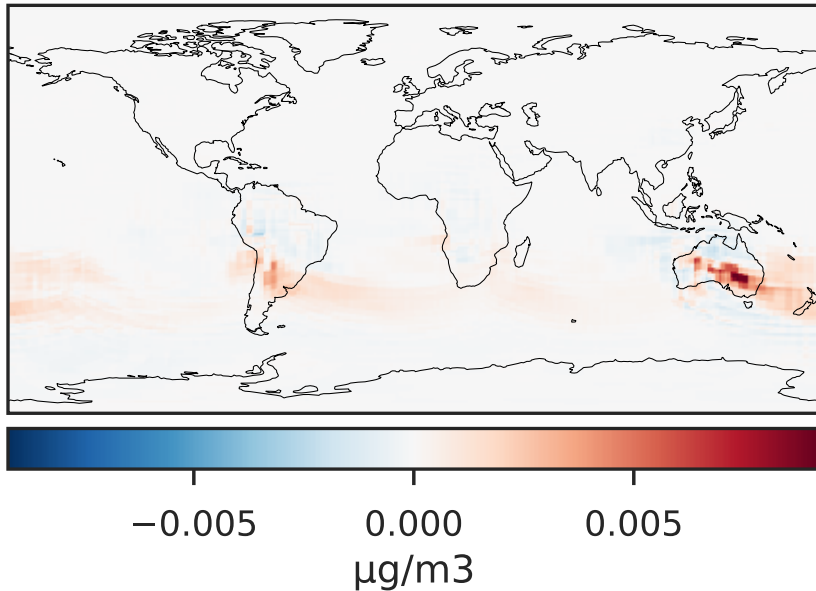
GCC\_14.2.0 (Ref)  
4.0x5.0



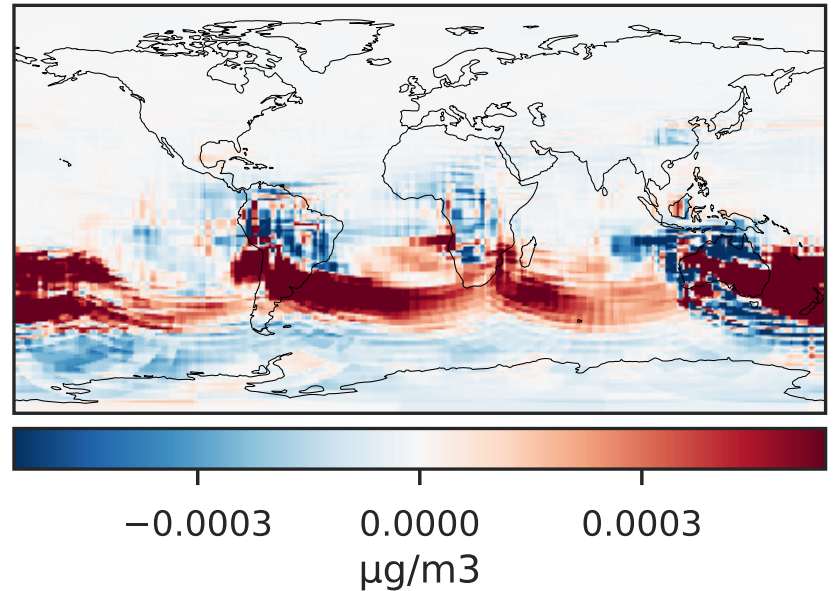
GCHP\_14.2.0 (Dev)  
c24



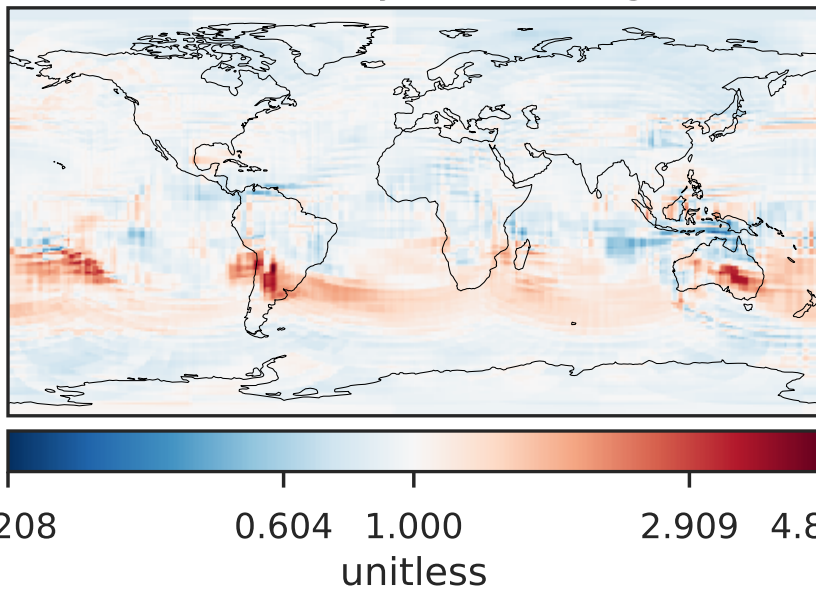
Difference (1x1.25)  
Dev - Ref, Dynamic Range



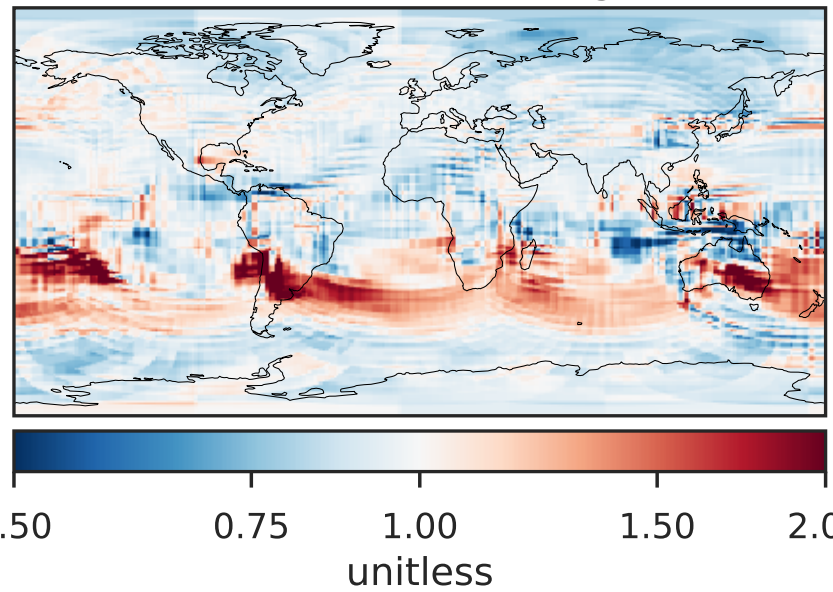
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

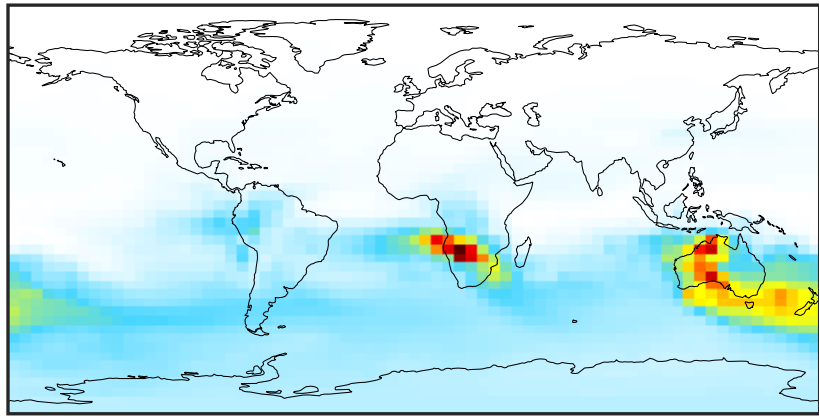


Ratio (1x1.25)  
Dev/Ref, Fixed Range



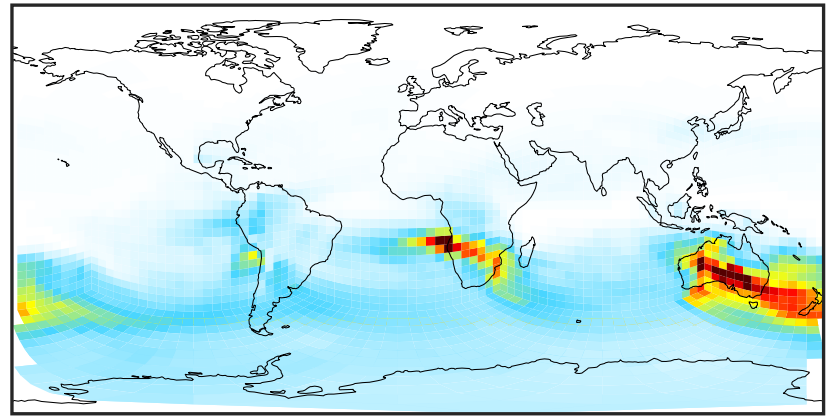
# SpeciesConcVV\_SOAIE (Jan2019)

GCC\_14.2.0 (Ref)  
4.0x5.0



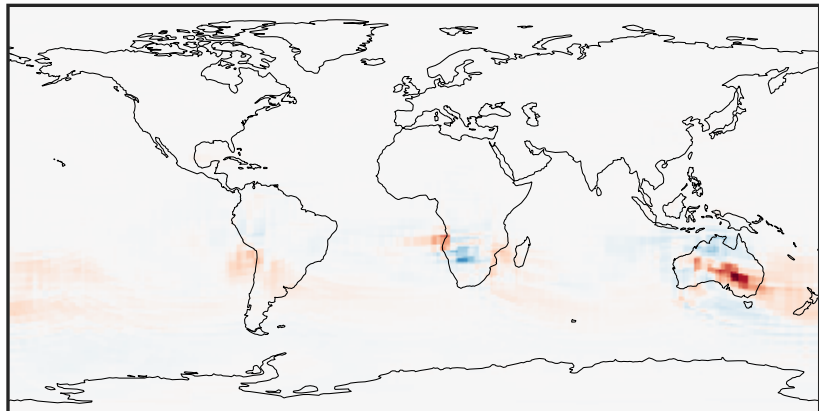
0.0003 0.0320 0.0641 0.0961 0.1284  
 $\mu\text{g}/\text{m}^3$

GCHP\_14.2.0 (Dev)  
c24



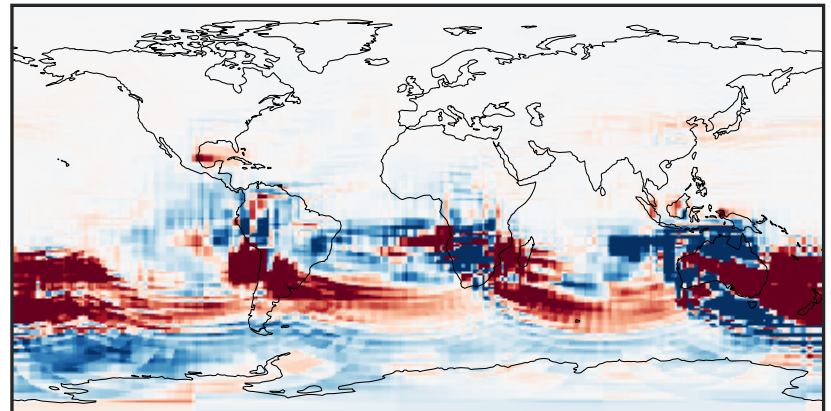
0.0003 0.0320 0.0641 0.0961 0.1284  
 $\mu\text{g}/\text{m}^3$

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



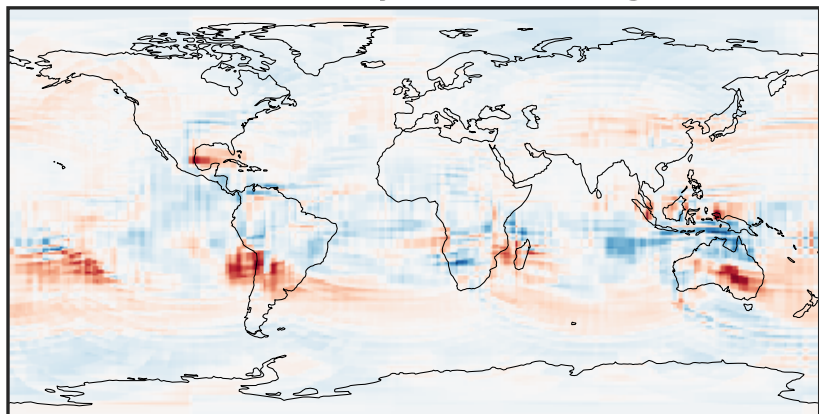
-0.1274 -0.0637 0.0000 0.0637 0.1274  
 $\mu\text{g}/\text{m}^3$

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



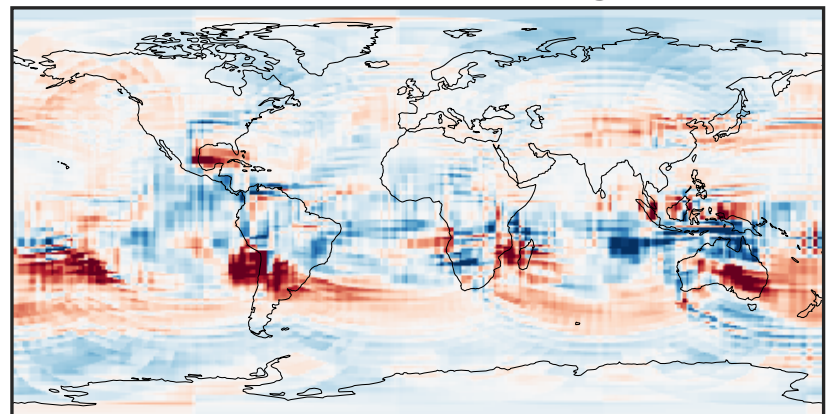
-0.003 0.000 0.003  
 $\mu\text{g}/\text{m}^3$

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



0.24 0.62 1.00 2.59 4.18  
unitless

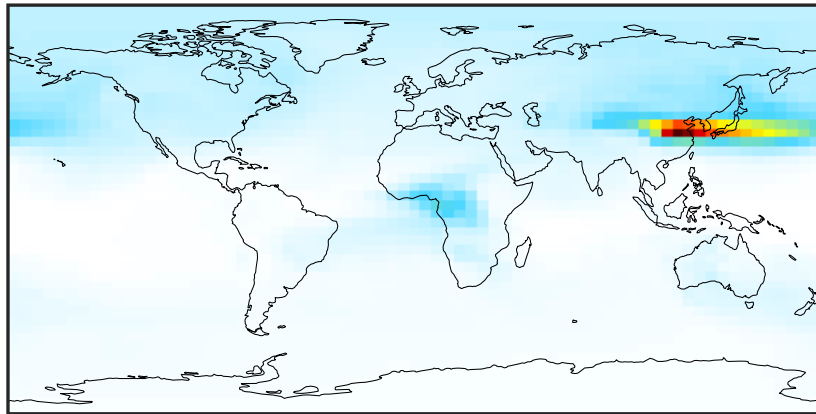
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

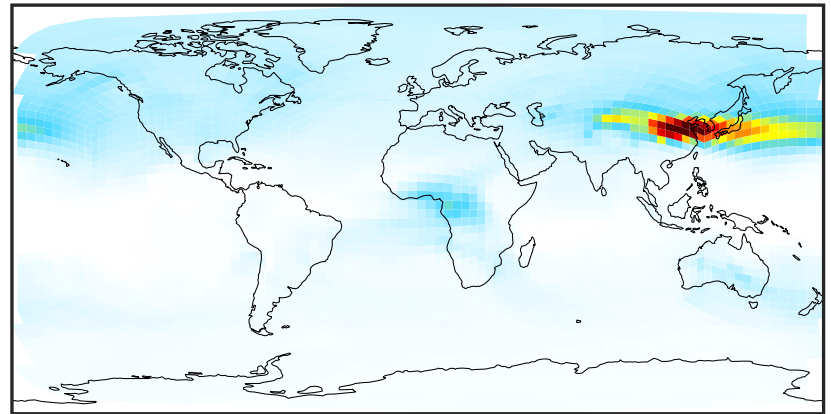
# SpeciesConcVV\_SOAGX (Jan2019)

GCC\_14.2.0 (Ref)  
4.0x5.0



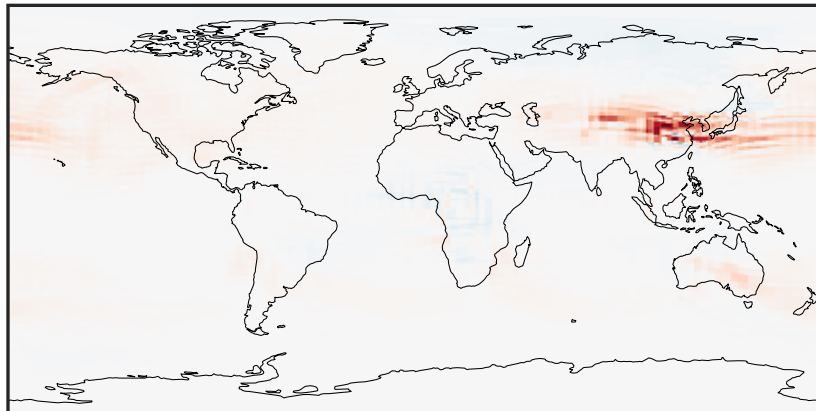
0.008 0.016 0.024  
 $\mu\text{g}/\text{m}^3$

GCHP\_14.2.0 (Dev)  
c24



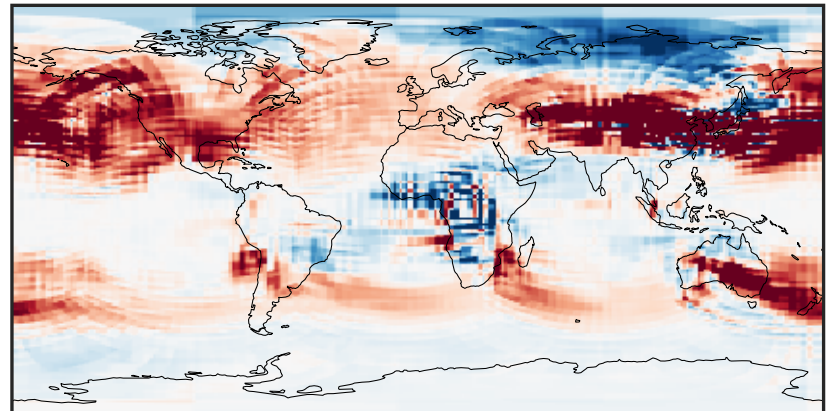
0.008 0.016 0.024  
 $\mu\text{g}/\text{m}^3$

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



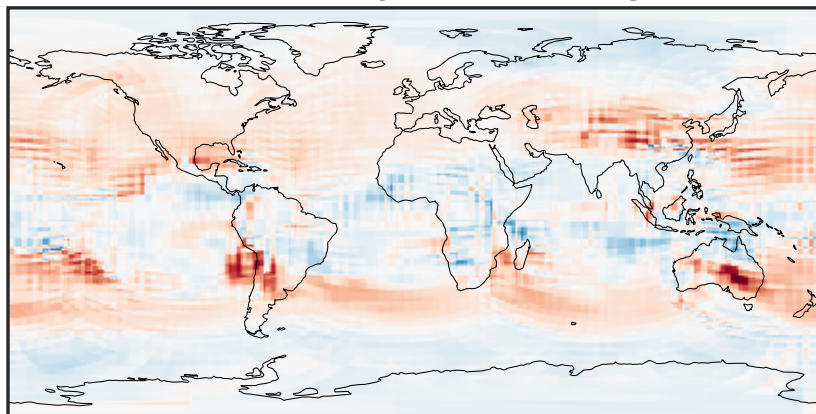
-0.008 0.000 0.008  
 $\mu\text{g}/\text{m}^3$

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



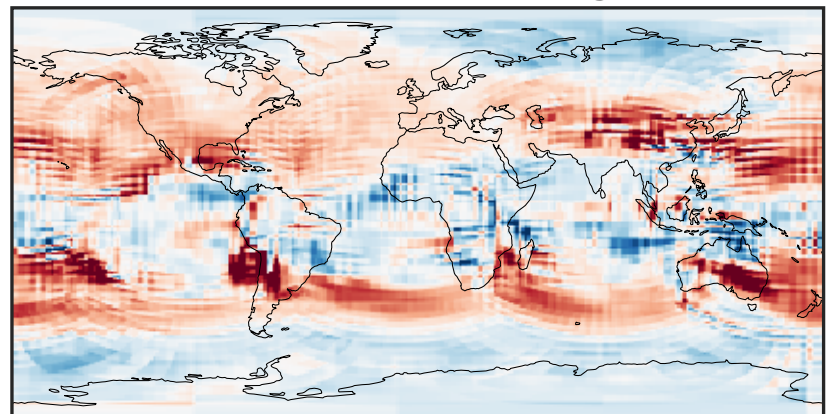
-0.0004 0.0000 0.0004  
 $\mu\text{g}/\text{m}^3$

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



0.233 0.616 1.000 2.649 4.297  
unitless

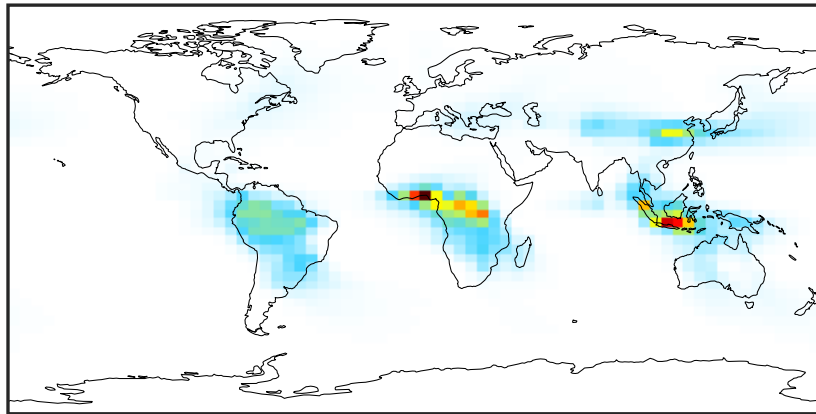
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

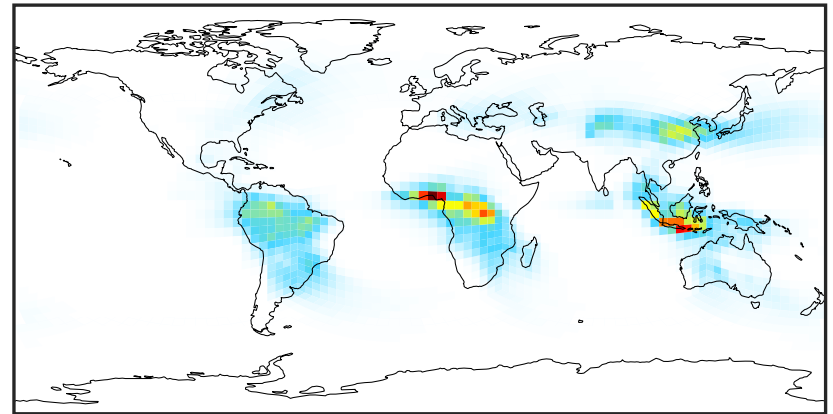
# SpeciesConcVV\_SOAP (Jan2019)

GCC\_14.2.0 (Ref)  
4.0x5.0



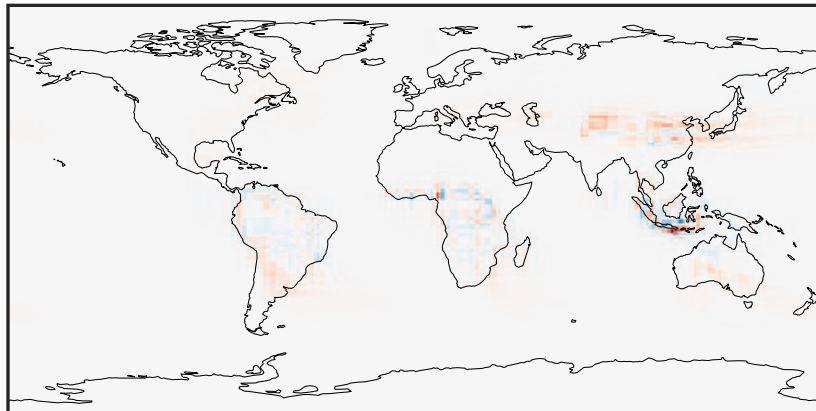
0.0000 0.0269 0.0538 0.0808 0.1077  
 $\mu\text{g}/\text{m}^3$

GCHP\_14.2.0 (Dev)  
c24



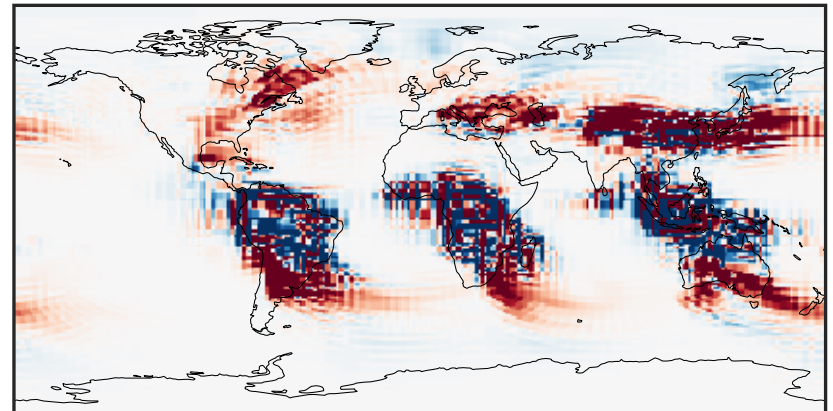
0.0000 0.0269 0.0538 0.0808 0.1077  
 $\mu\text{g}/\text{m}^3$

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



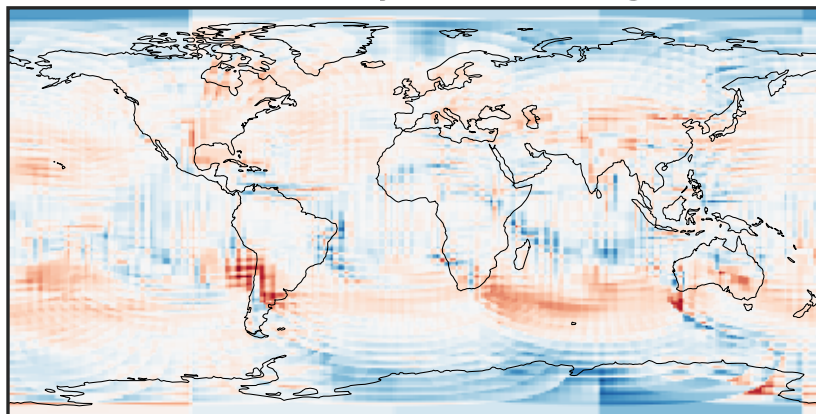
-0.052 -0.026 0.000 0.026 0.052  
 $\mu\text{g}/\text{m}^3$

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



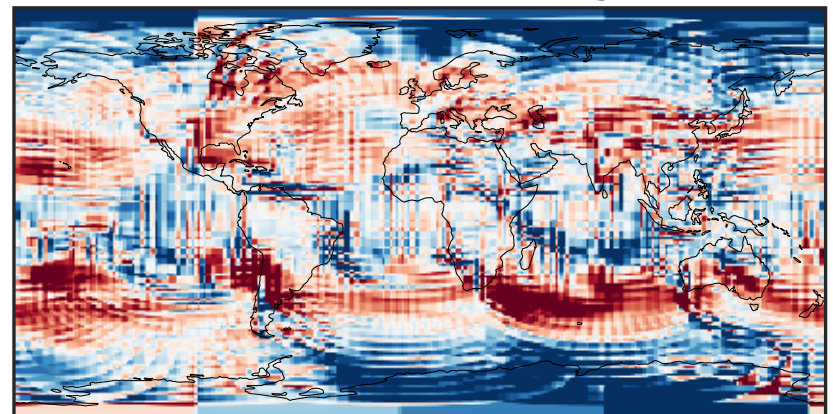
-0.0008 0.0000 0.0008  
 $\mu\text{g}/\text{m}^3$

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



1e-01 1 10  
unitless

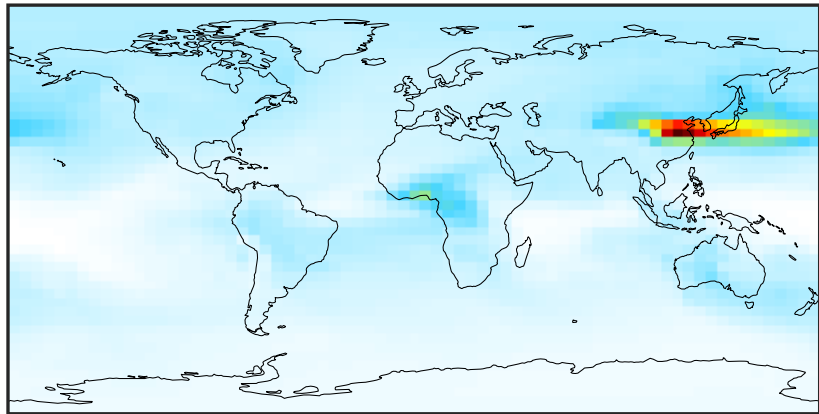
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

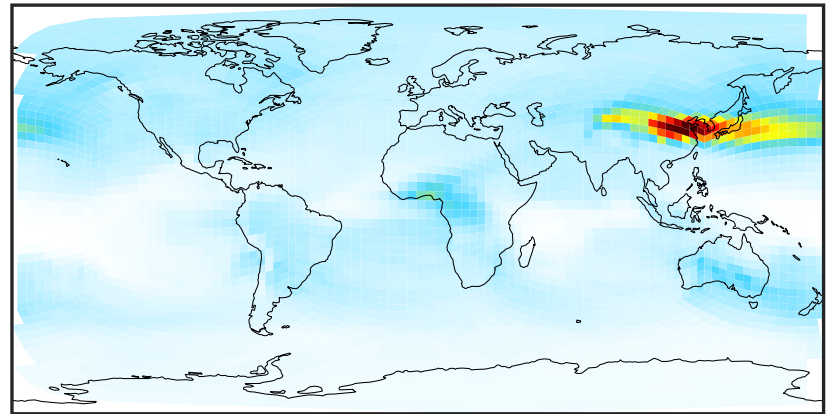
# SpeciesConcVV\_SOAS (Jan2019)

GCC\_14.2.0 (Ref)  
4.0x5.0



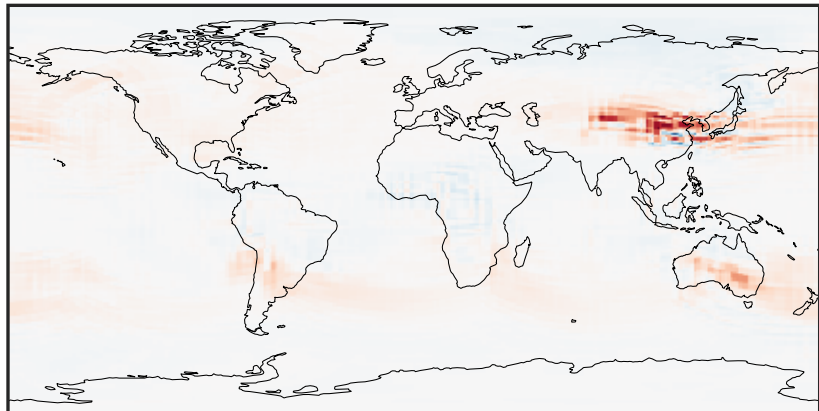
0.0011 0.1761 0.3522 0.5283 0.7056  
 $\mu\text{g}/\text{m}^3$

GCHP\_14.2.0 (Dev)  
c24



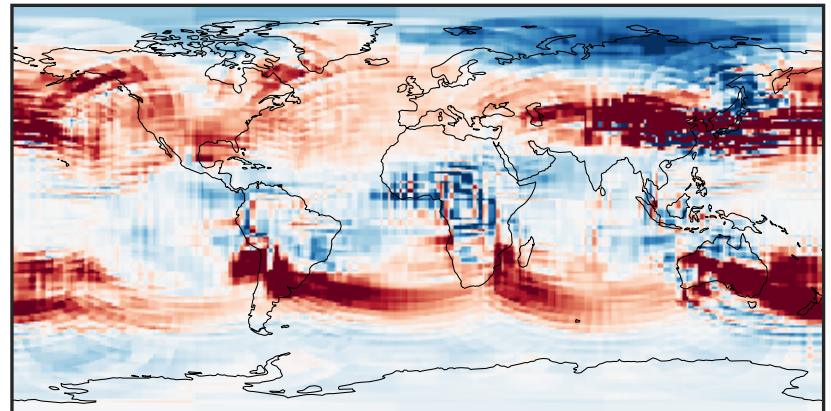
0.0011 0.1761 0.3522 0.5283 0.7056  
 $\mu\text{g}/\text{m}^3$

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



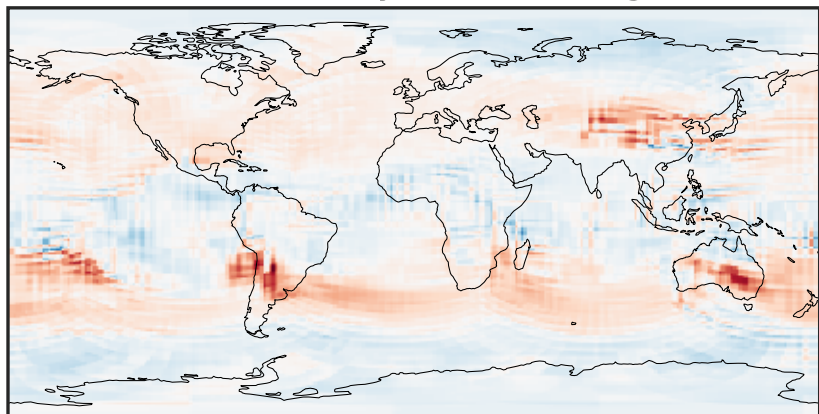
-0.2612 -0.1306 0.0000 0.1306 0.2612  
 $\mu\text{g}/\text{m}^3$

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



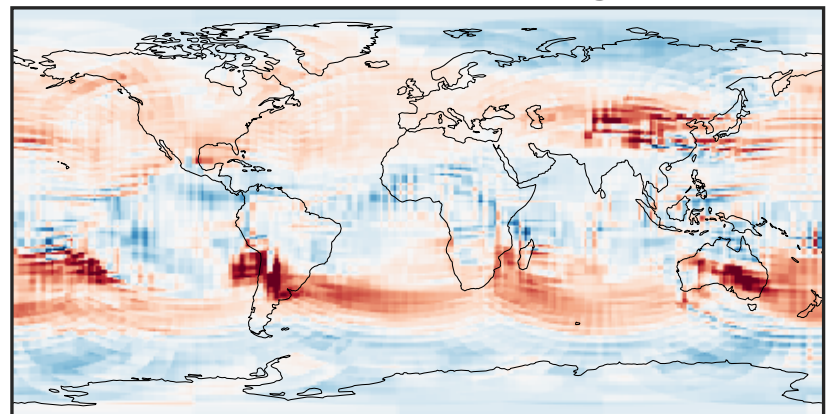
-0.01 0.00 0.01  
 $\mu\text{g}/\text{m}^3$

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



0.287 0.643 1.000 2.245 3.490  
unitless

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



0.50 0.75 1.00 1.50 2.00  
unitless