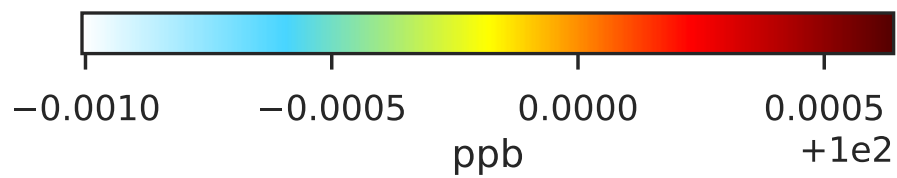
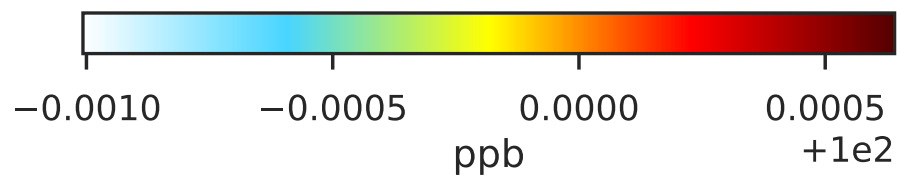
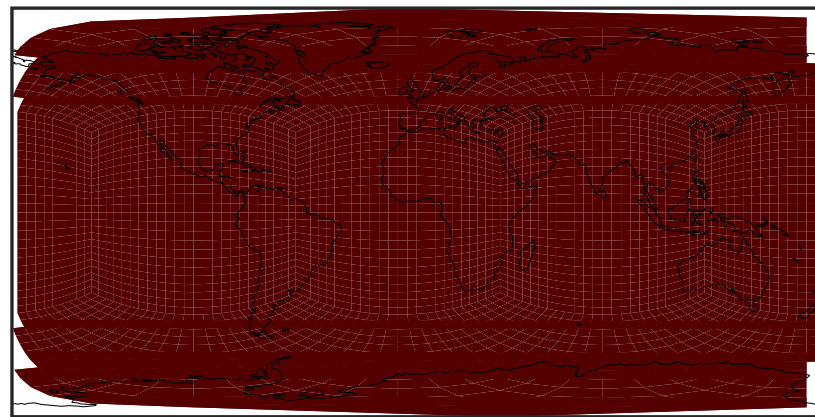


# SpeciesConcVV\_PassiveTracer (Jul2019)

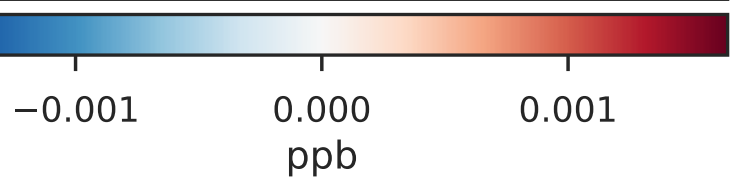
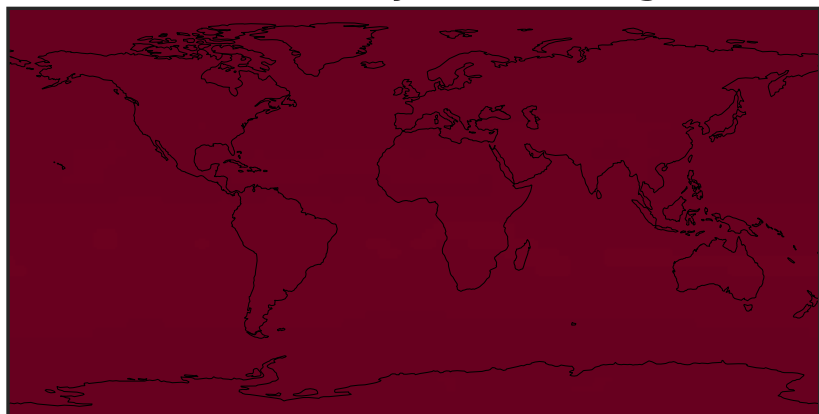
GCC\_14.2.0 (Ref)  
4.0x5.0



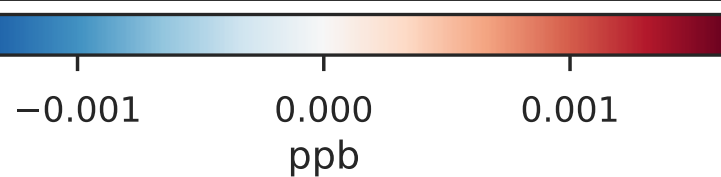
GCHP\_14.2.0 (Dev)  
c24



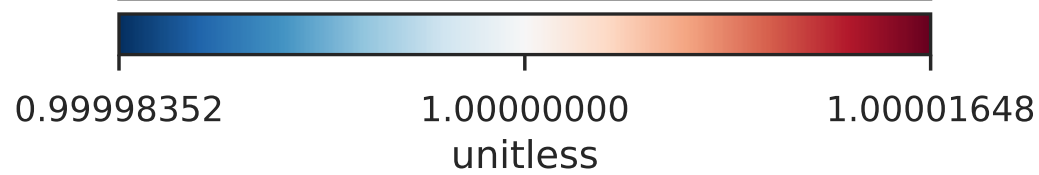
Difference (1x1.25)  
Dev - Ref, Dynamic Range



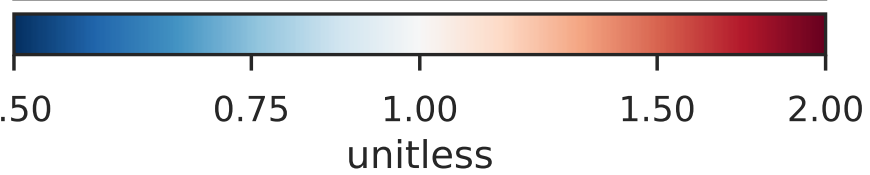
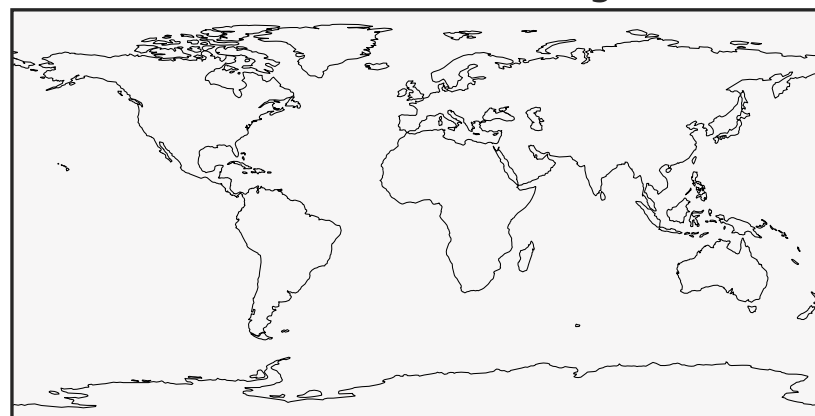
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

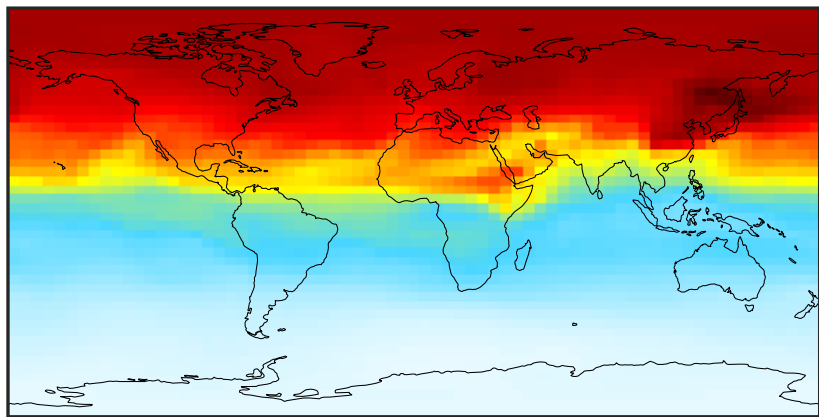


Ratio (1x1.25)  
Dev/Ref, Fixed Range



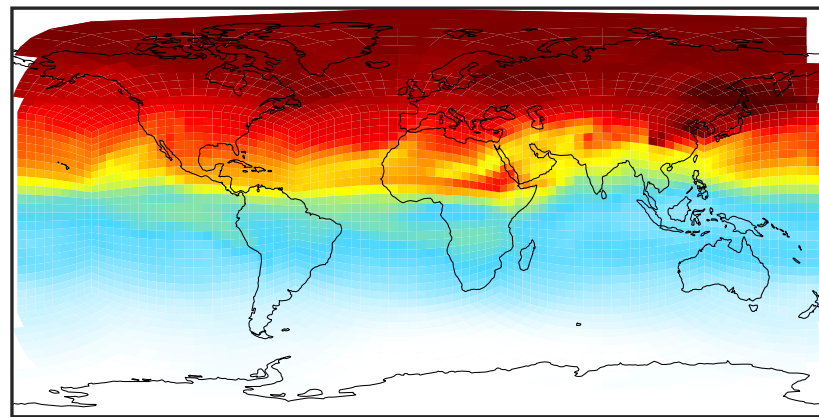
# SpeciesConcVV\_SF6 (Jul2019)

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



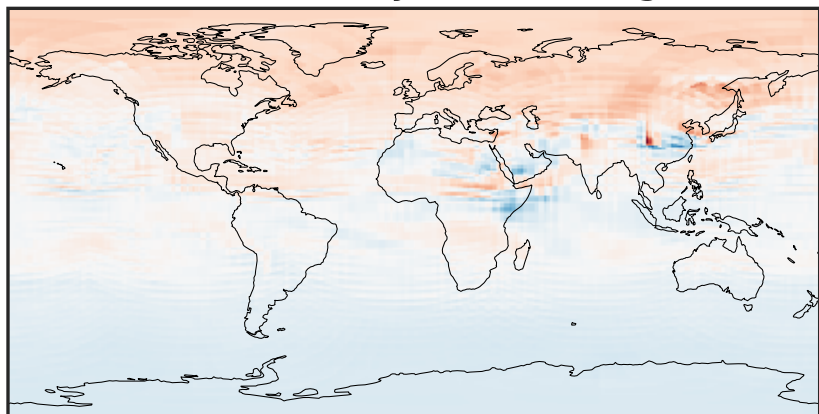
0.00255 0.00270 0.00285  
ppb

GCHP\_14.2.0 (Dev)  
c24



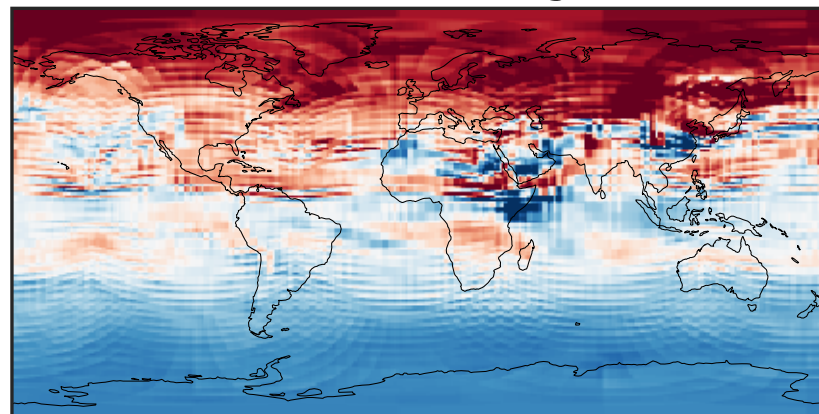
0.00255 0.00270 0.00285  
ppb

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



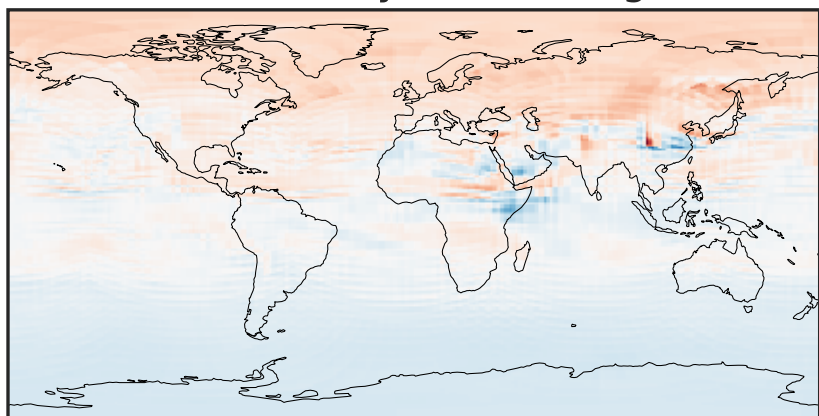
-6 0 6  
ppb 1e-5

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



0.95989 0.97994 1.00000 1.02090 1.04179  
unitless

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

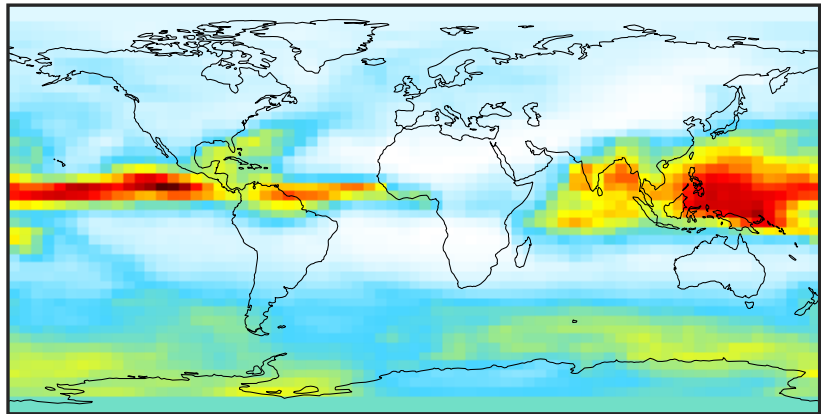


0.50 0.75 1.00 1.50 2.00  
unitless



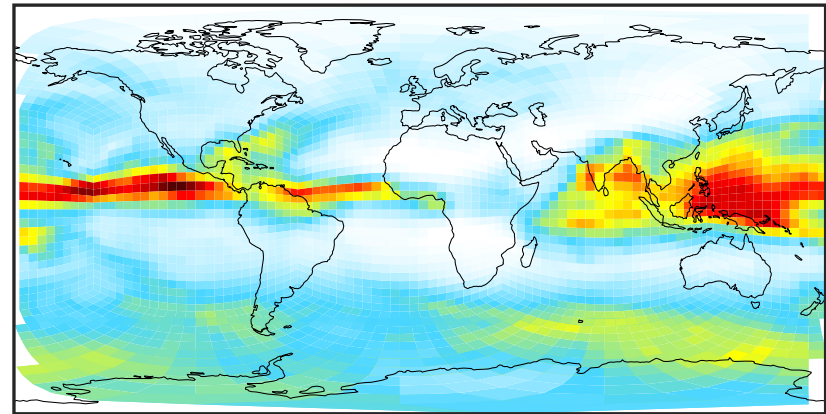
# SpeciesConcVV\_CH3I (Jul2019)

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



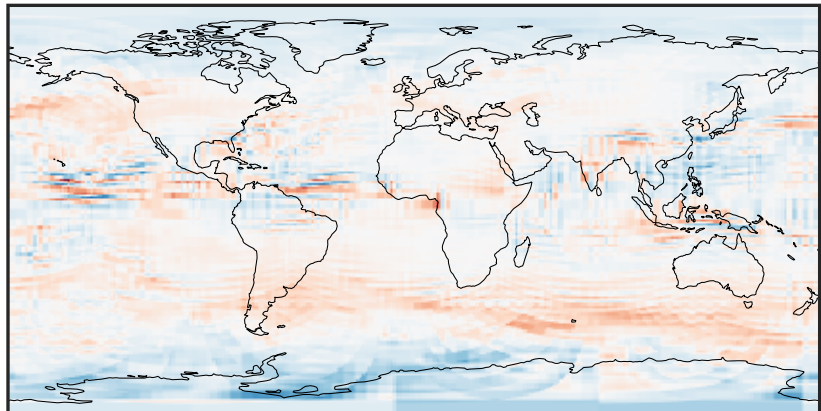
0.8 1.6 2.4 3.2  
ppb  $1e-11$

GCHP\_14.2.0 (Dev)  
c24



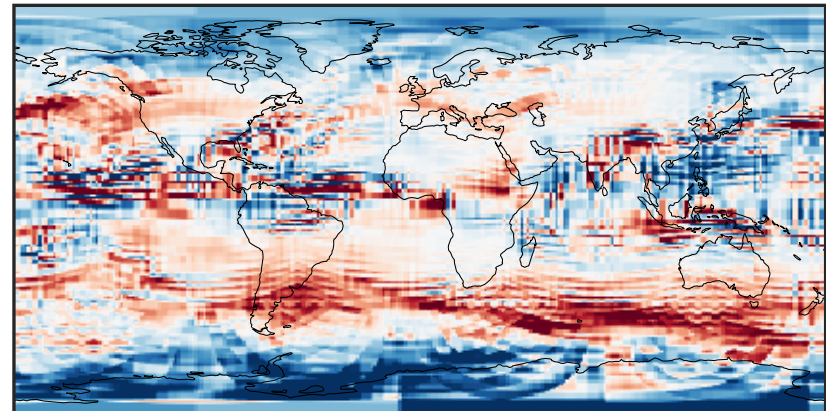
0.8 1.6 2.4 3.2  
ppb  $1e-11$

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



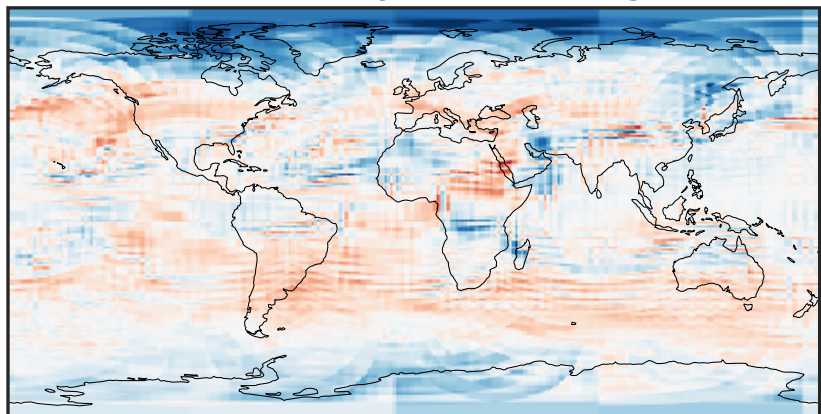
-4 0 4  
ppb  $1e-12$

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



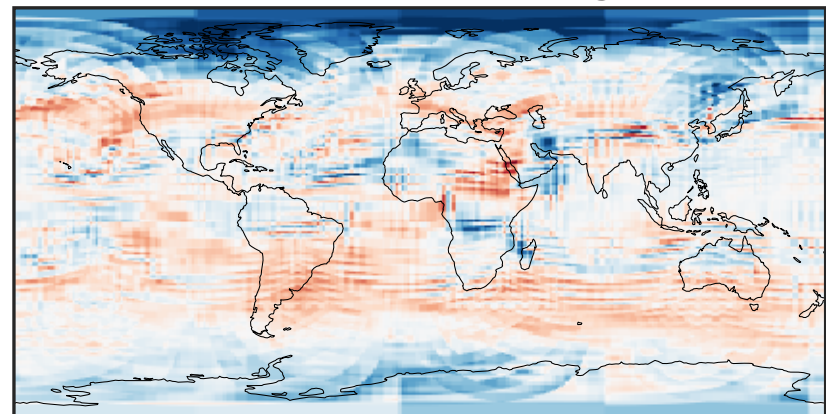
-1.5 0.0 1.5  
ppb  $1e-12$

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



0.443 0.721 1.000 1.630 2.259  
unitless

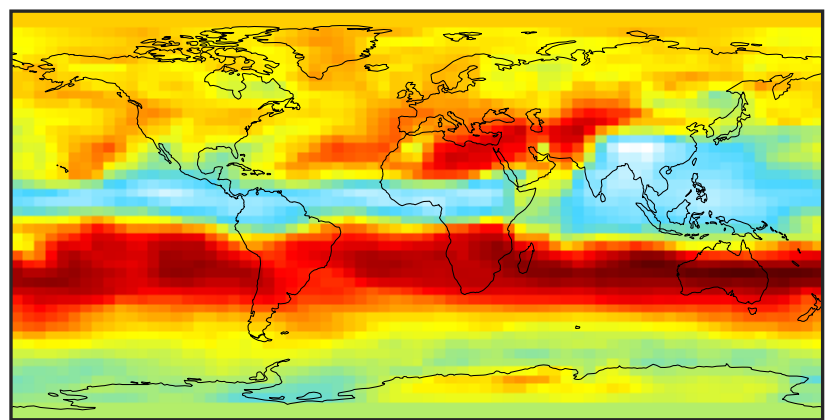
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

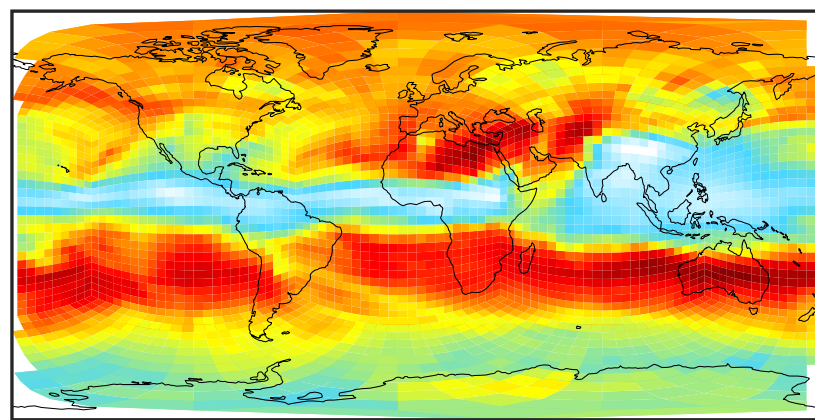
# SpeciesConcVV\_aoa (Jul2019)

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



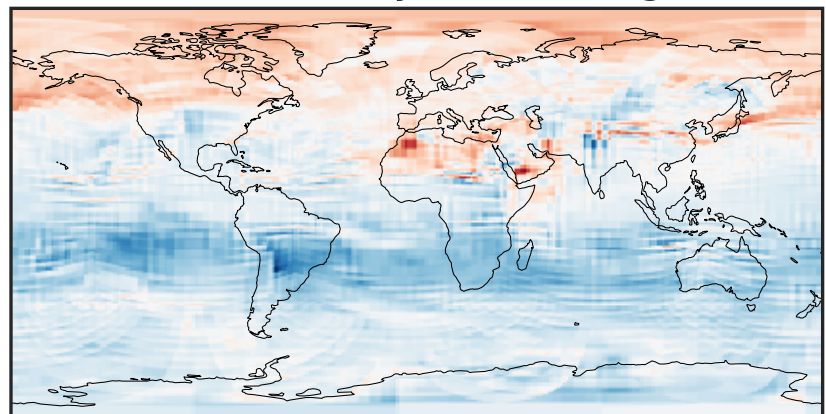
1.5 3.0 4.5 6.0  
ppb 1e10

GCHP\_14.2.0 (Dev)  
c24



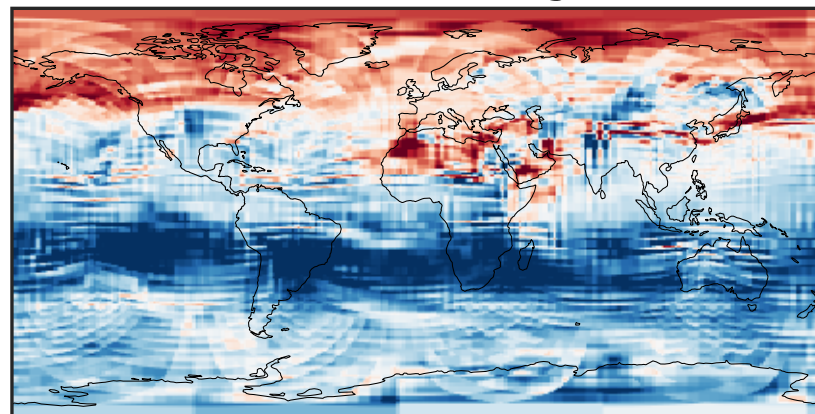
1.5 3.0 4.5 6.0  
ppb 1e10

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



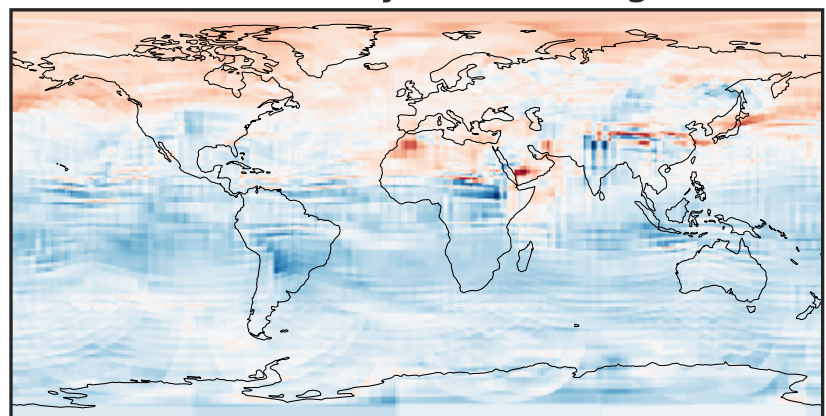
-8 0 8  
ppb 1e9

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



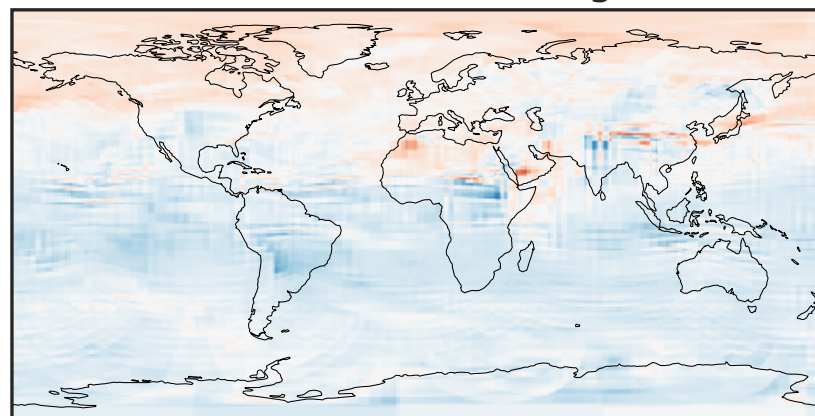
-4 0 4  
ppb 1e9

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



0.6446 0.8223 1.0000 1.2757 1.5514  
unitless

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

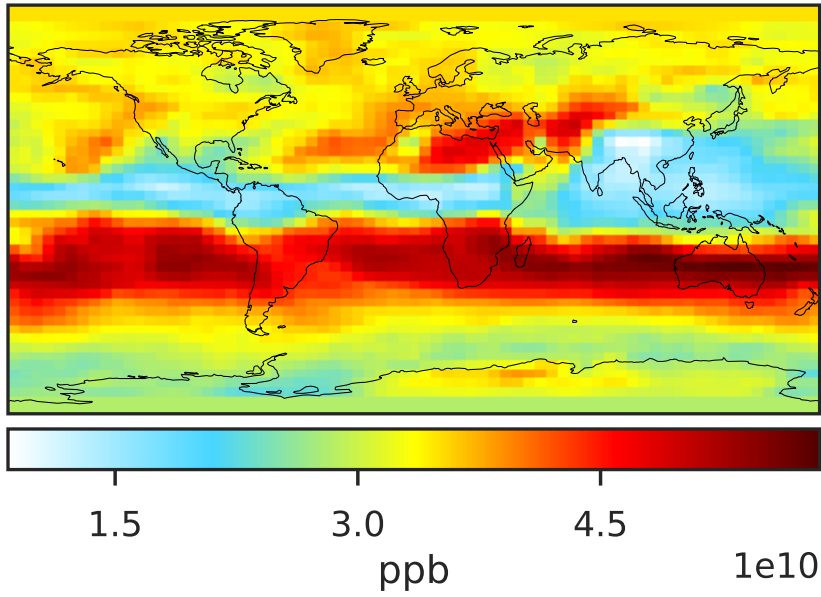


0.50 0.75 1.00 1.50 2.00  
unitless

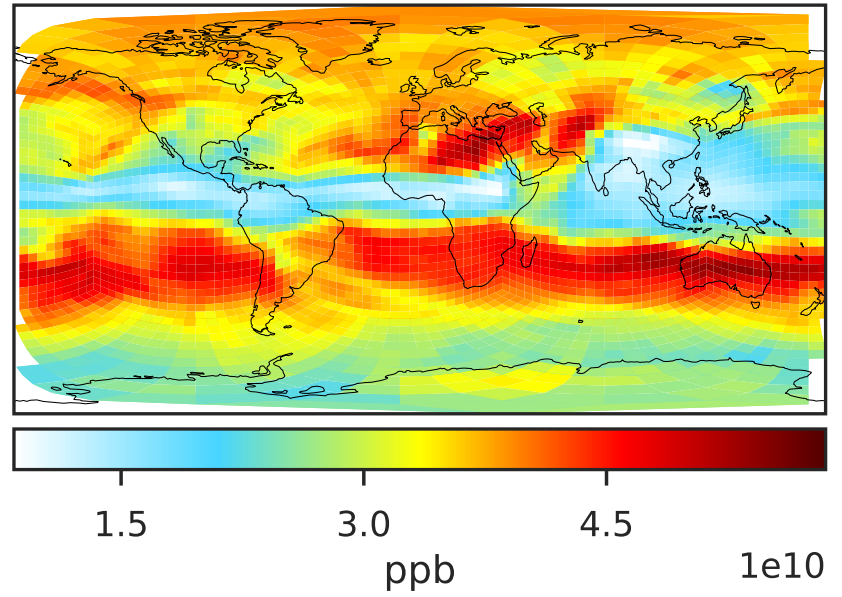


# SpeciesConcVV\_aoa\_bl (Jul2019)

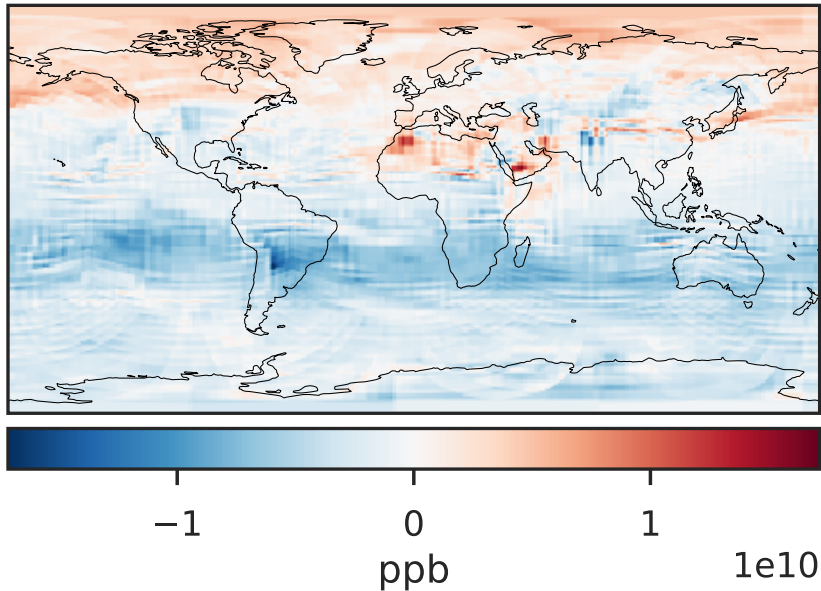
GCC\_14.2.0 (Ref)  
4.0x5.0



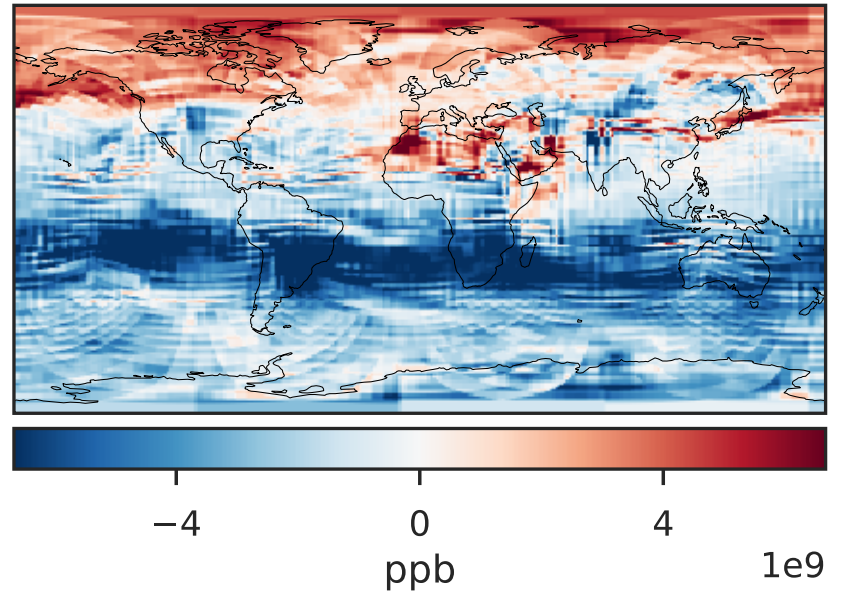
GCHP\_14.2.0 (Dev)  
c24



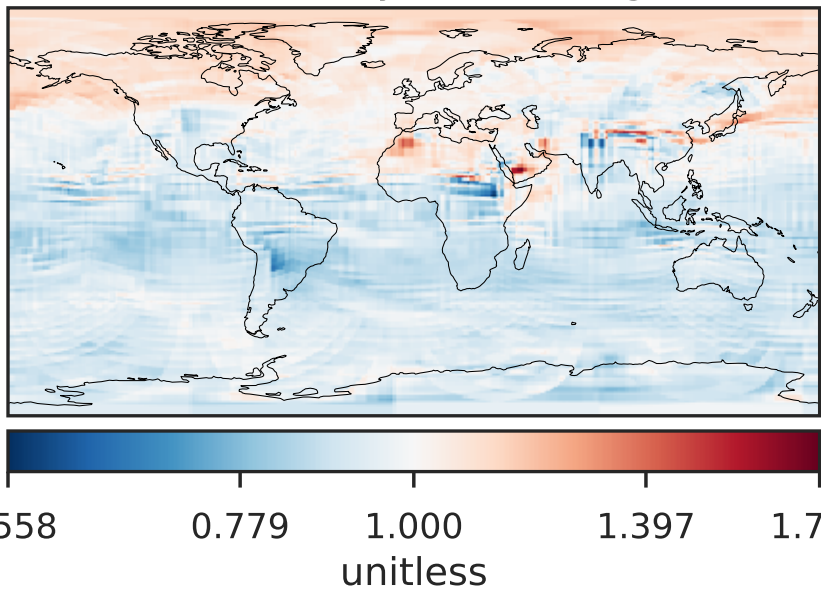
Difference (1x1.25)  
Dev - Ref, Dynamic Range



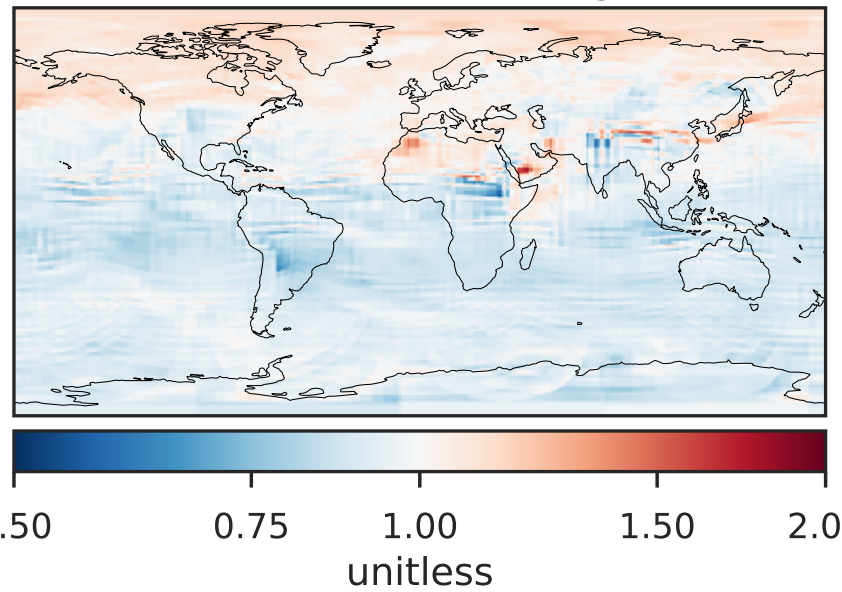
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

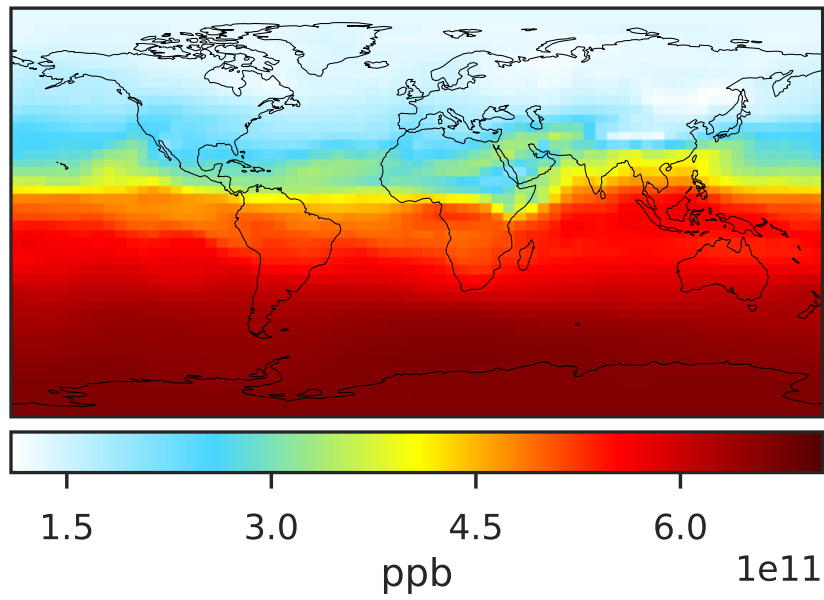


Ratio (1x1.25)  
Dev/Ref, Fixed Range

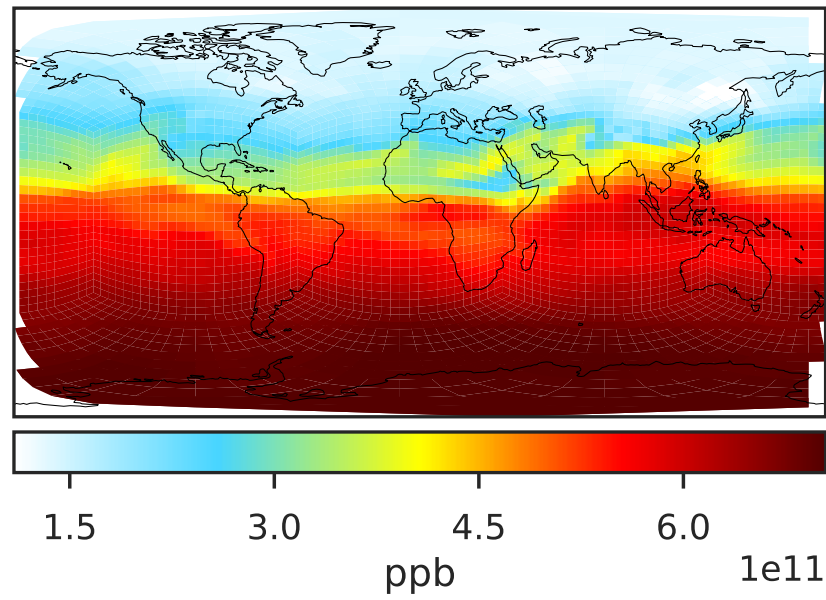


# SpeciesConcVV\_aoa\_nh (Jul2019)

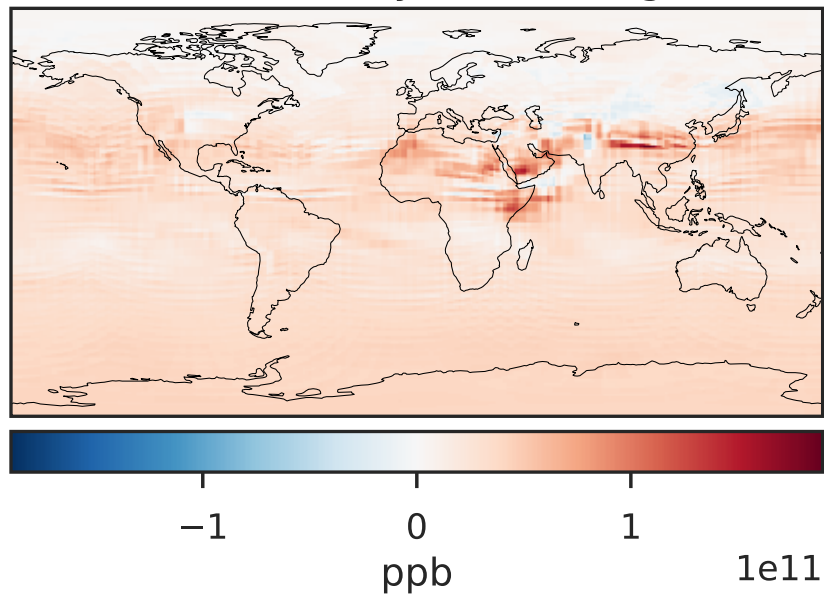
GCC\_14.2.0 (Ref)  
4.0x5.0



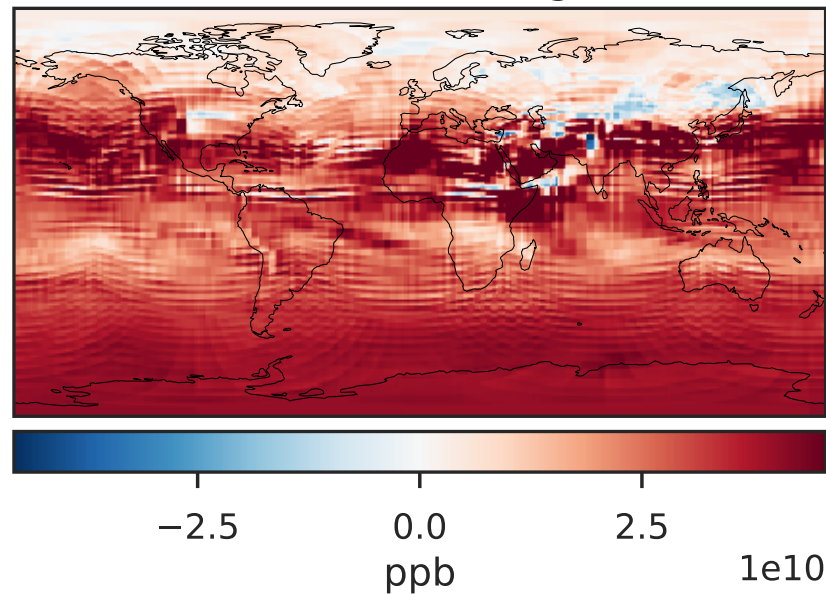
GCHP\_14.2.0 (Dev)  
c24



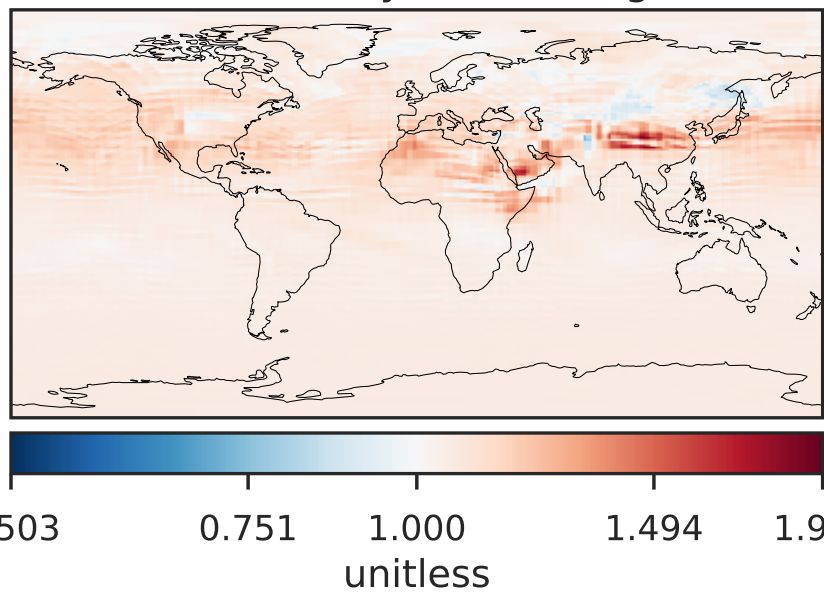
Difference (1x1.25)  
Dev - Ref, Dynamic Range



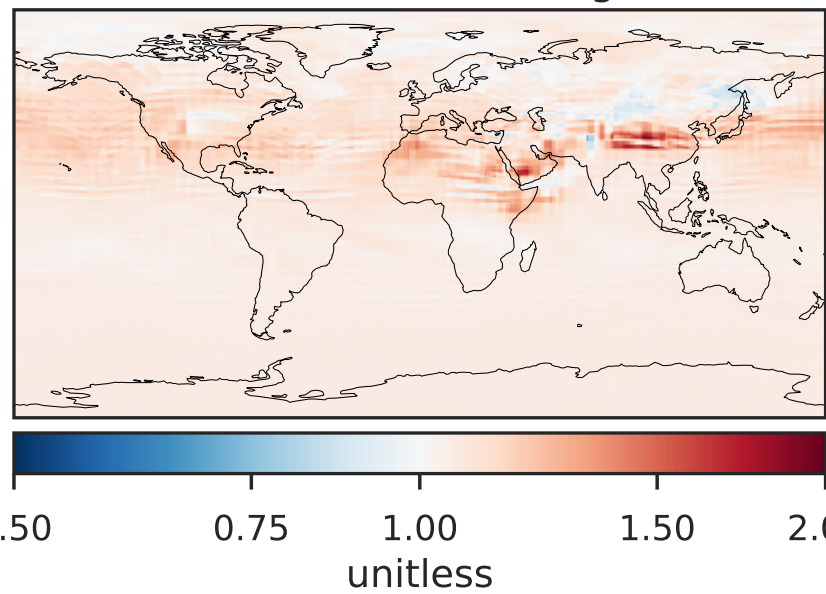
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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



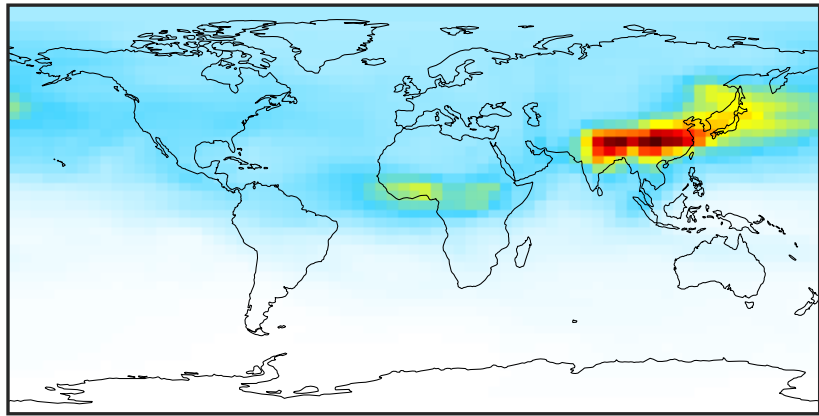
Ratio (1x1.25)  
Dev/Ref, Fixed Range





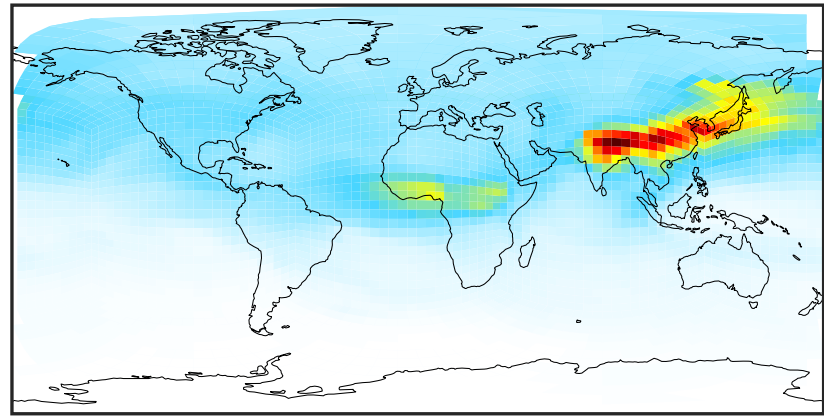
# SpeciesConcVV\_CO\_25 (Jul2019)

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



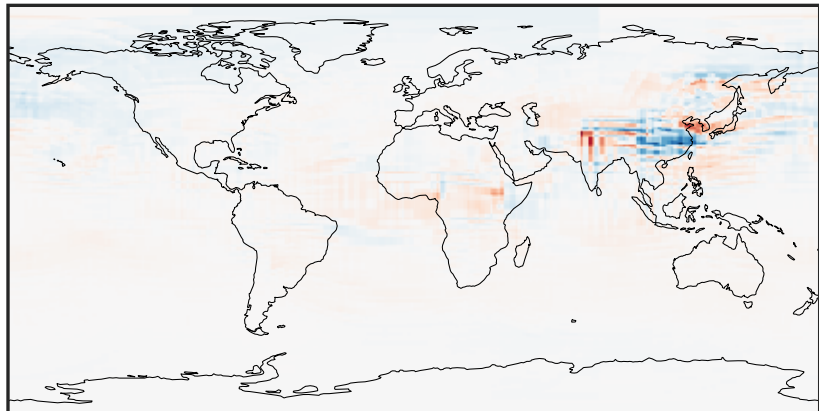
1.1 13.1 26.2 39.3 53.5  
ppb

GCHP\_14.2.0 (Dev)  
c24



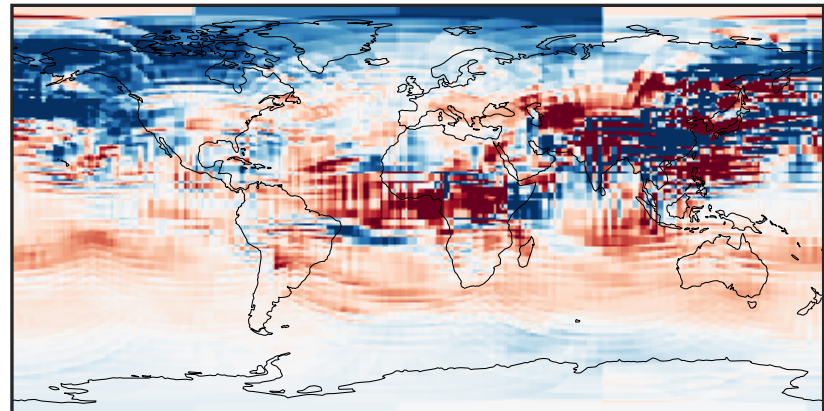
1.1 13.1 26.2 39.3 53.5  
ppb

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



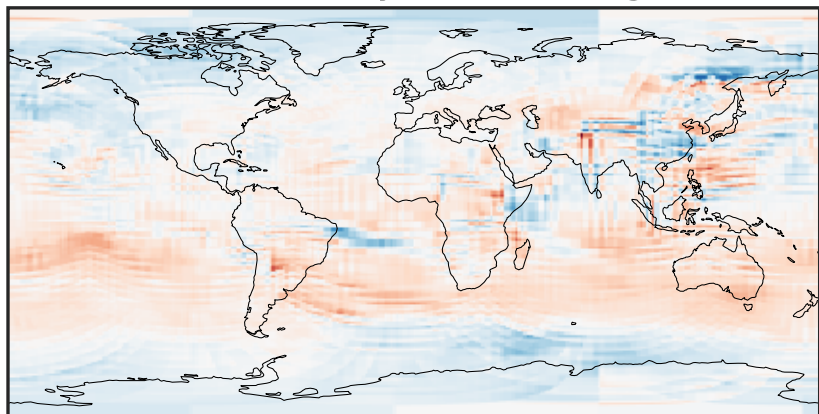
-15.75 -7.87 0.00 7.87 15.75  
ppb

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



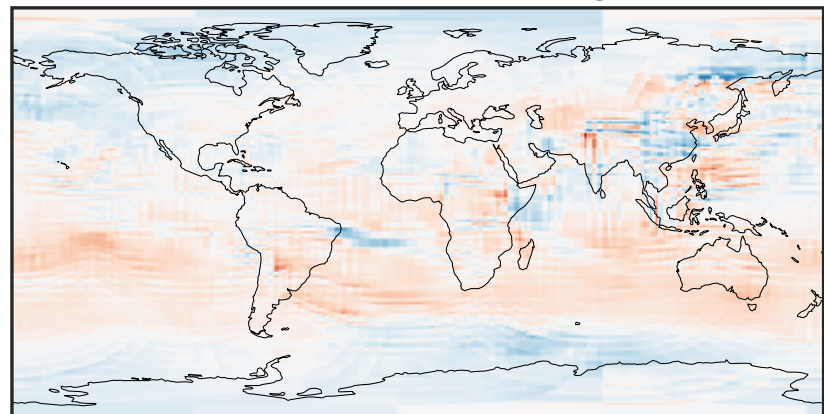
-1.108 -0.554 0.000 0.554 1.108  
ppb

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



0.553 0.776 1.000 1.404 1.809  
unitless

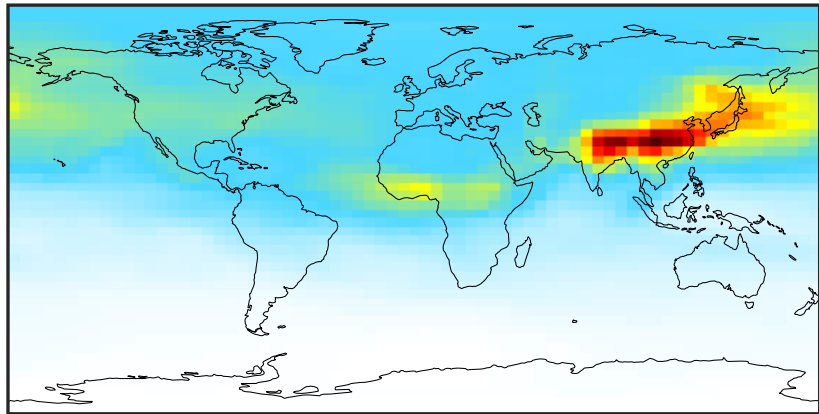
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

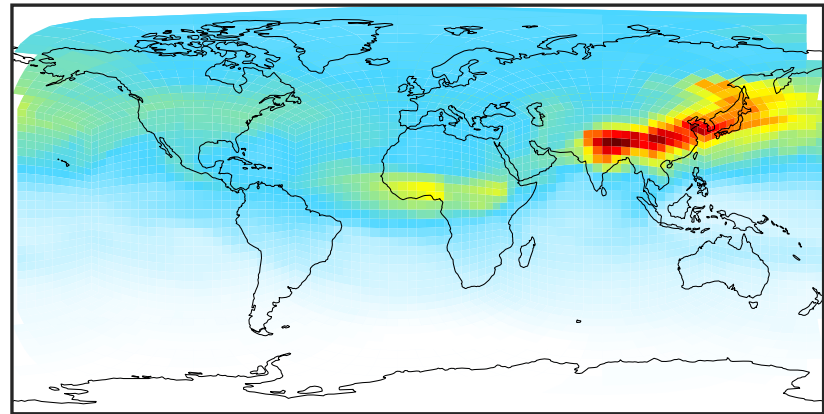
# SpeciesConcVV\_CO\_50 (Jul2019)

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



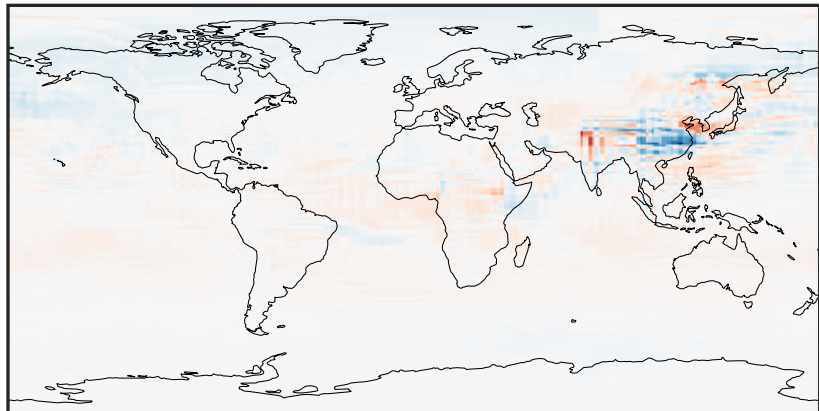
3.73 16.39 32.78 49.17 69.29  
ppb

GCHP\_14.2.0 (Dev)  
c24



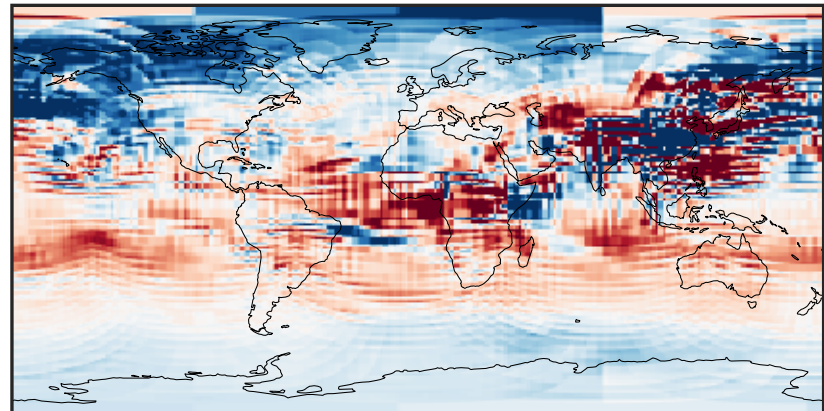
3.73 16.39 32.78 49.17 69.29  
ppb

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



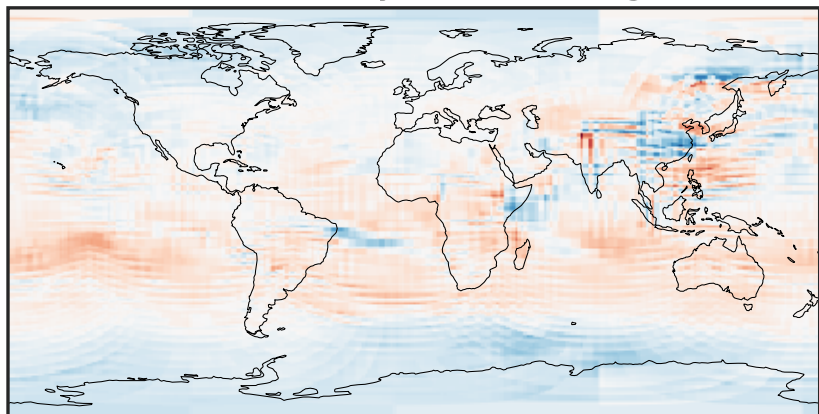
-19.12 -9.56 0.00 9.56 19.12  
ppb

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



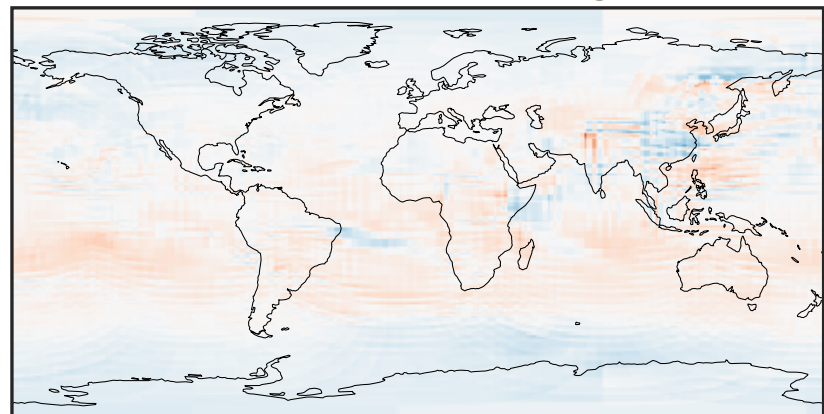
-1.607 -0.804 0.000 0.804 1.607  
ppb

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



0.6615 0.8307 1.0000 1.2559 1.5117  
unitless

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

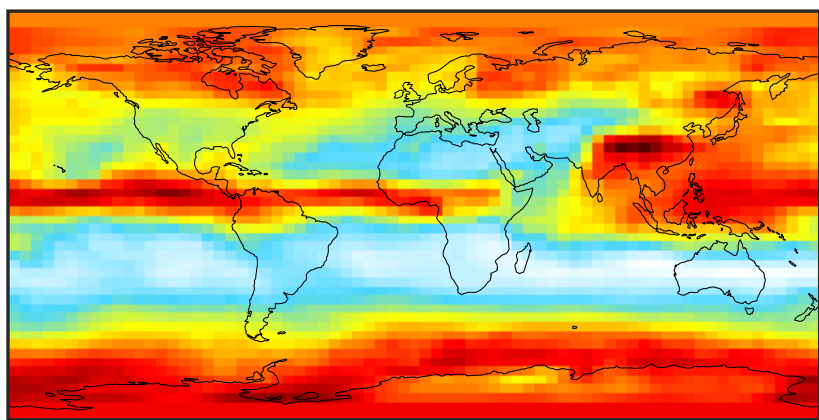


0.50 0.75 1.00 1.50 2.00  
unitless



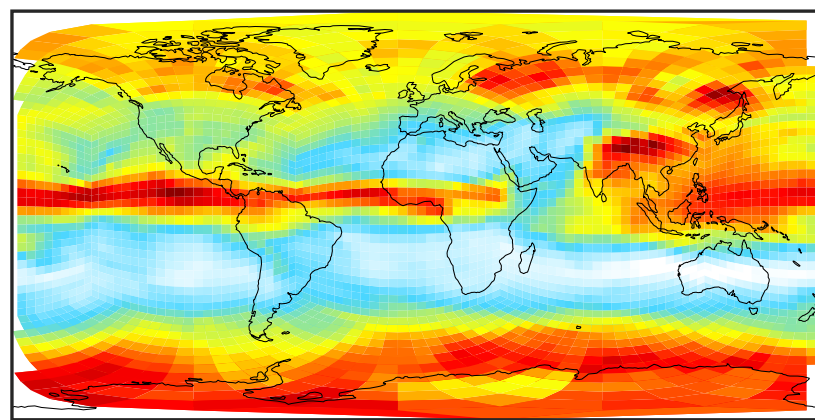
# SpeciesConcVV\_e90 (Jul2019)

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



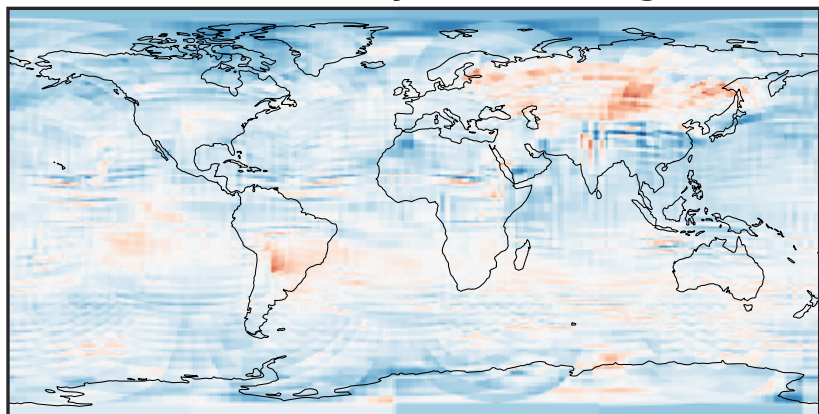
6.83 13.67 20.48 55.42 82.73  
ppb

GCHP\_14.2.0 (Dev)  
c24



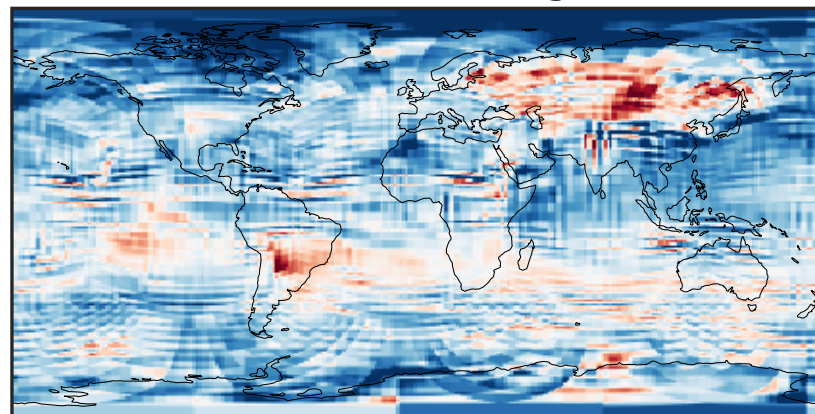
6.83 13.67 20.48 55.42 82.73  
ppb

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



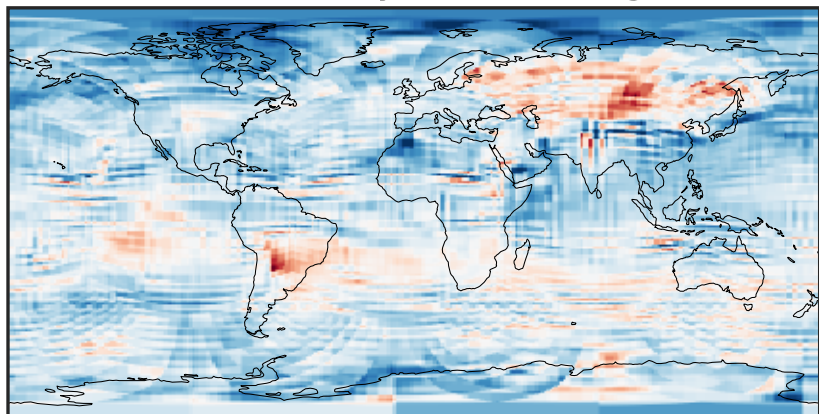
-8.03 -4.01 0.00 4.01 8.03  
ppb

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



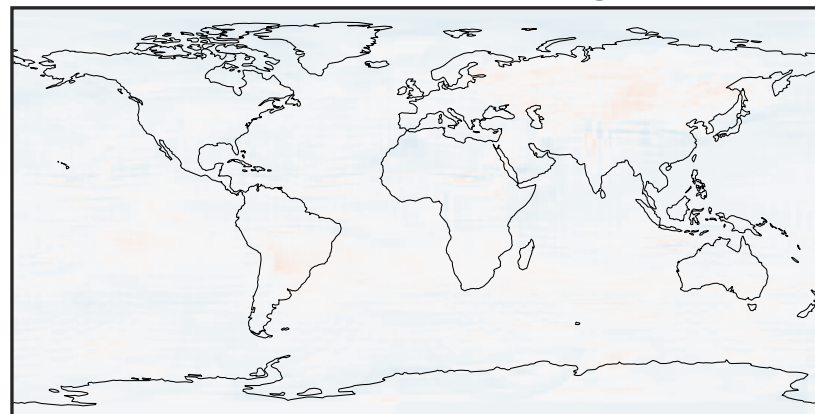
-3.462 -1.731 0.000 1.731 3.462  
ppb

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



0.9292 0.9646 1.0000 1.0381 1.0762  
unitless

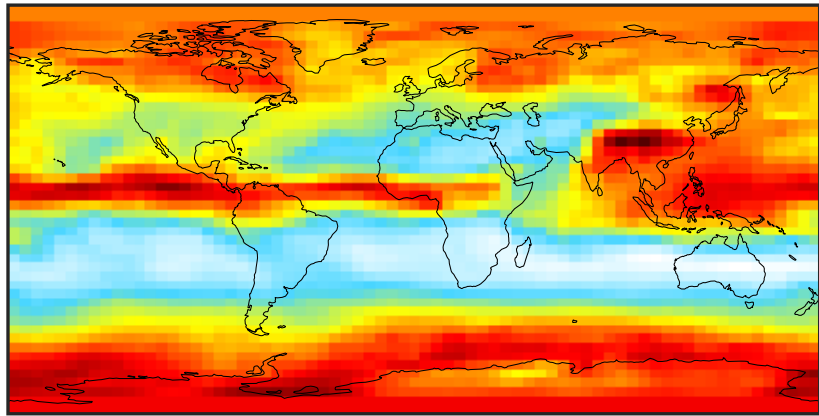
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

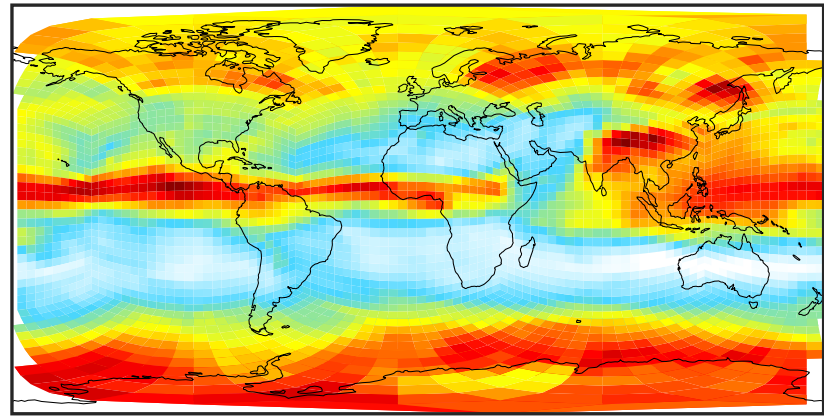
# SpeciesConcVV\_e90\_n (Jul2019)

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



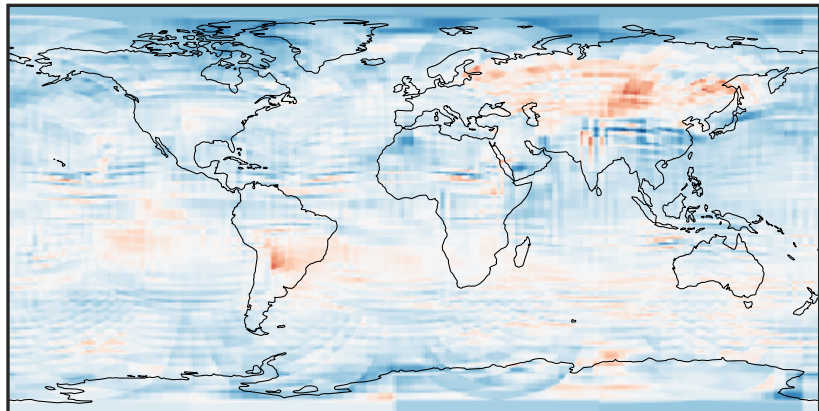
6.83 13.67 20.48 55.42 82.73  
ppb

GCHP\_14.2.0 (Dev)  
c24



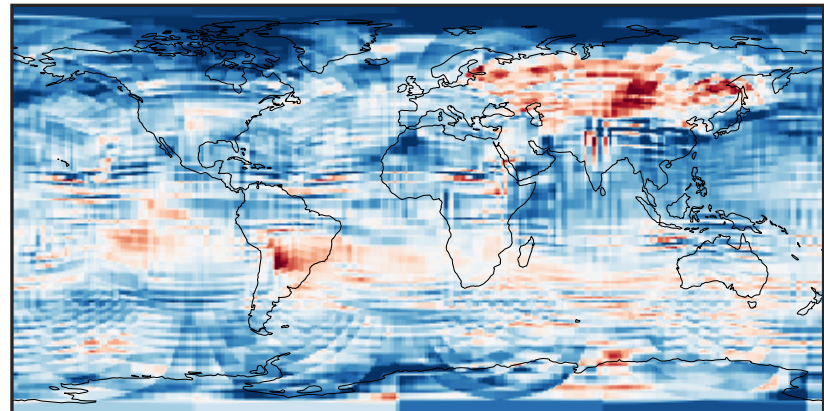
6.83 13.67 20.48 55.42 82.73  
ppb

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



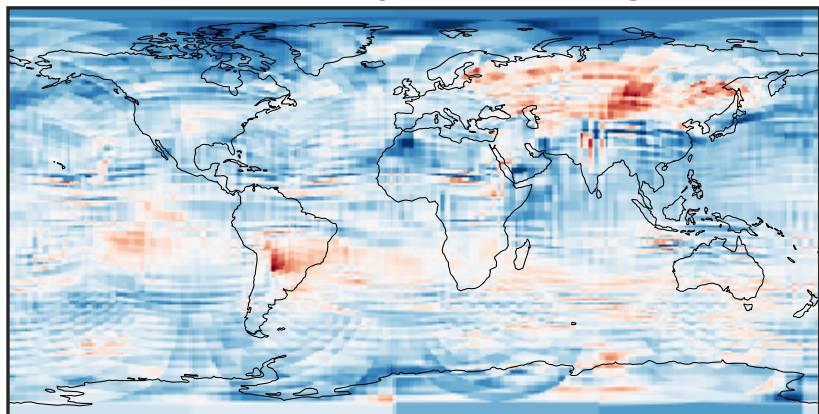
-8.03 -4.01 0.00 4.01 8.03  
ppb

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



-3.462 -1.731 0.000 1.731 3.462  
ppb

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



0.9292 0.9646 1.0000 1.0381 1.0762  
unitless

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

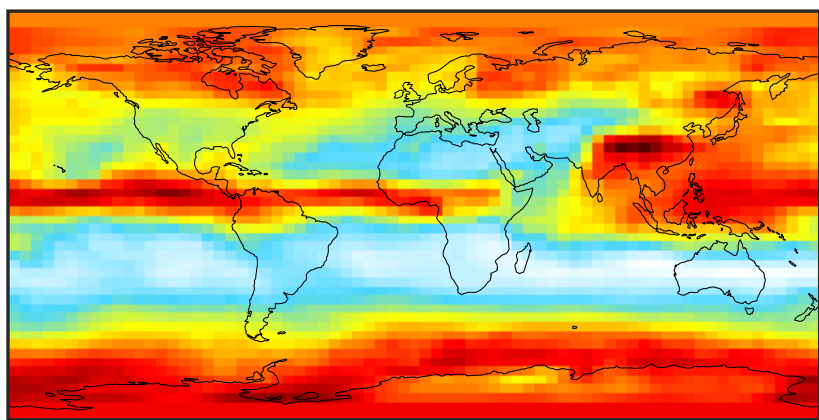


0.50 0.75 1.00 1.50 2.00  
unitless



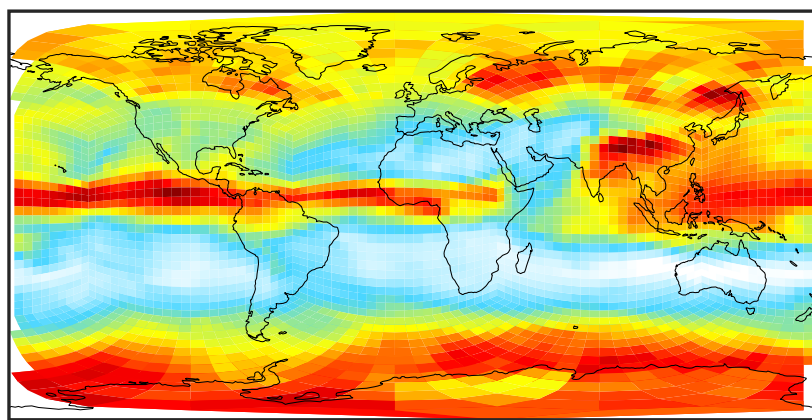
# SpeciesConcVV\_e90\_s (Jul2019)

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



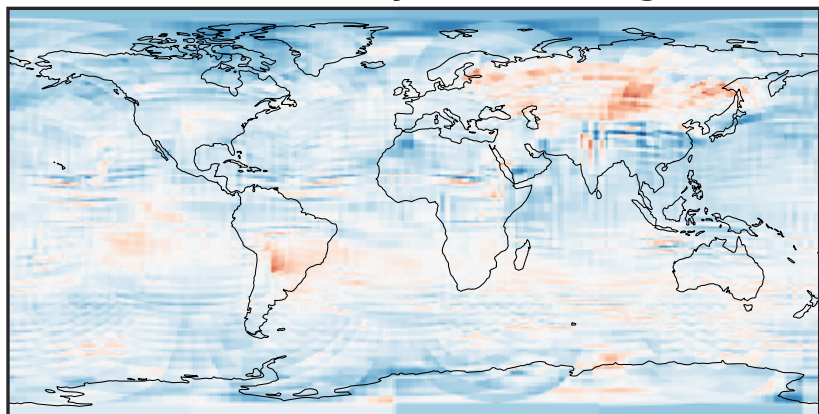
6.83 13.67 20.48 55.42 82.73  
ppb

GCHP\_14.2.0 (Dev)  
c24



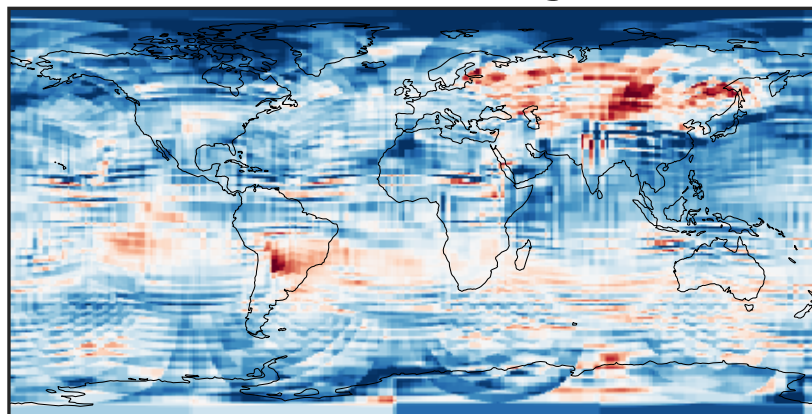
6.83 13.67 20.48 55.42 82.73  
ppb

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



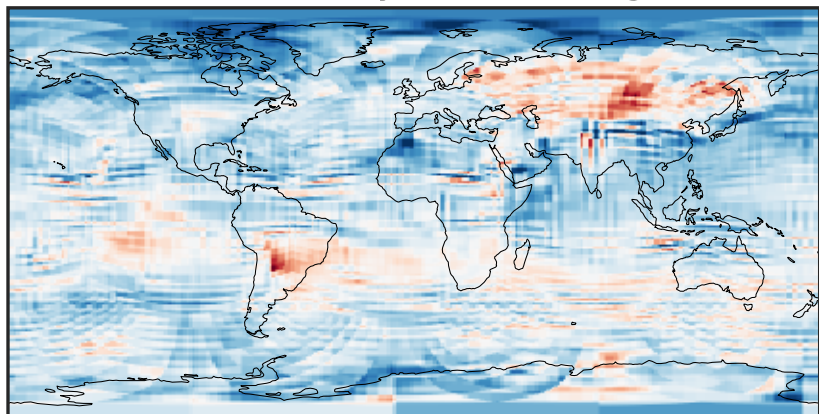
-8.03 -4.01 0.00 4.01 8.03  
ppb

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



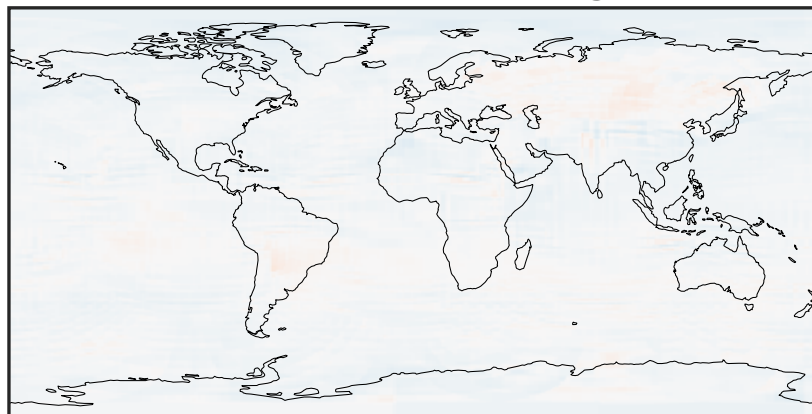
-3.462 -1.731 0.000 1.731 3.462  
ppb

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



0.9292 0.9646 1.0000 1.0381 1.0762  
unitless

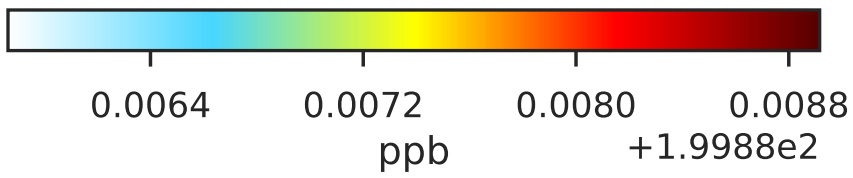
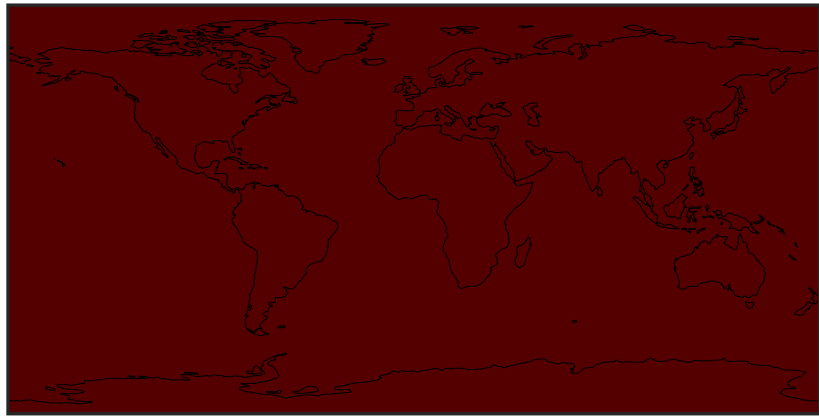
Ratio (1x1.25)  
Dev/Ref, Fixed Range



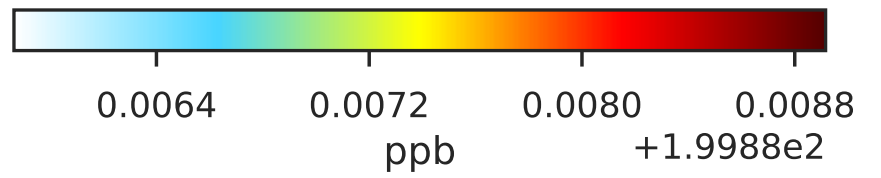
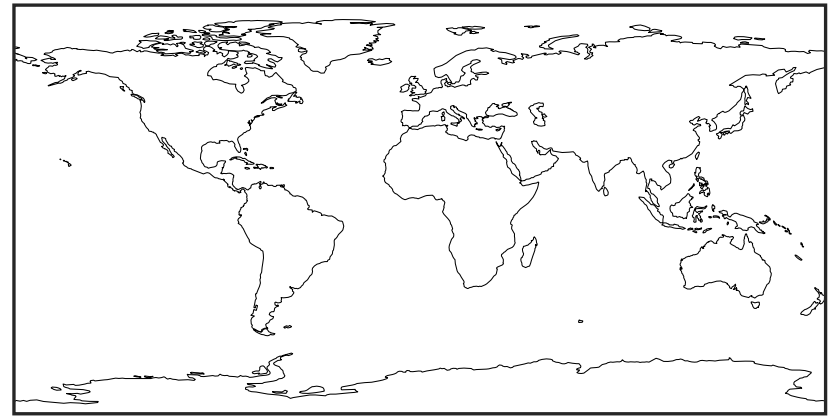
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_st80\_25 (Jul2019)

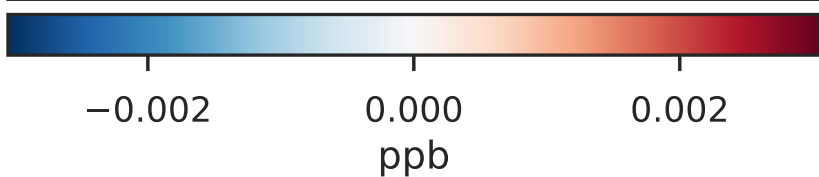
GCC\_14.2.0 (Ref)  
4.0x5.0



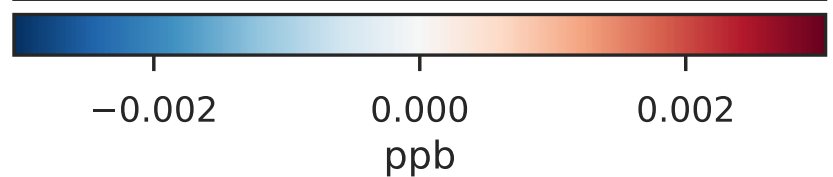
GCHP\_14.2.0 (Dev)  
c24



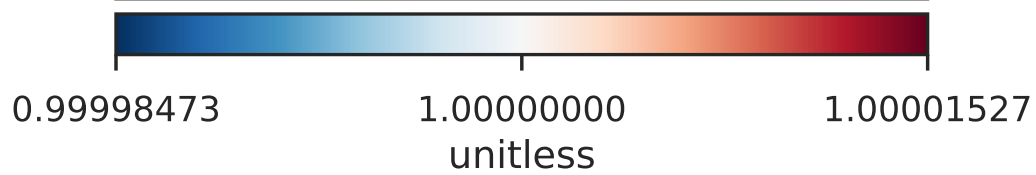
Difference (1x1.25)  
Dev - Ref, Dynamic Range



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



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



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

