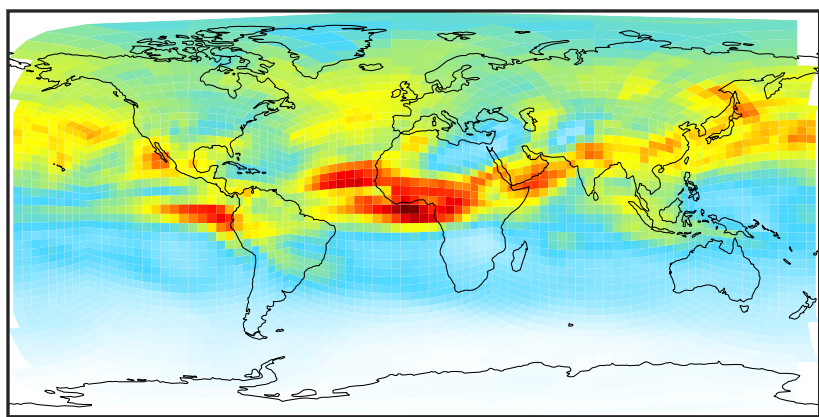


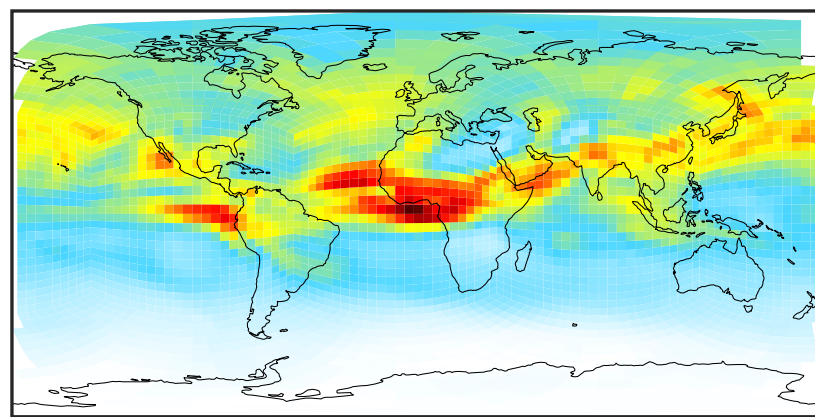
# SpeciesConcVV\_H2O2 (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



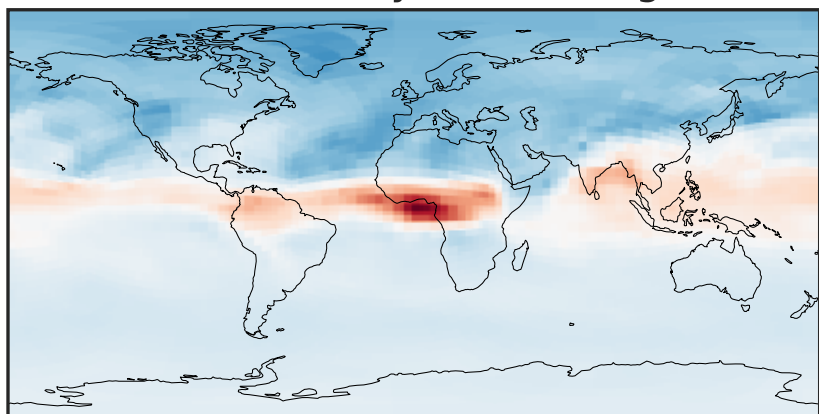
0.045 0.430 0.860 1.290 1.765  
ppb

GCHP\_14.2.0 (Dev)  
c24



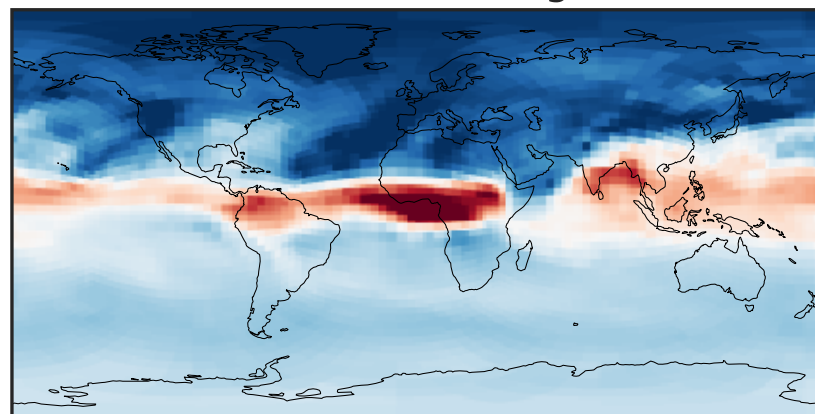
0.045 0.430 0.860 1.290 1.765  
ppb

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



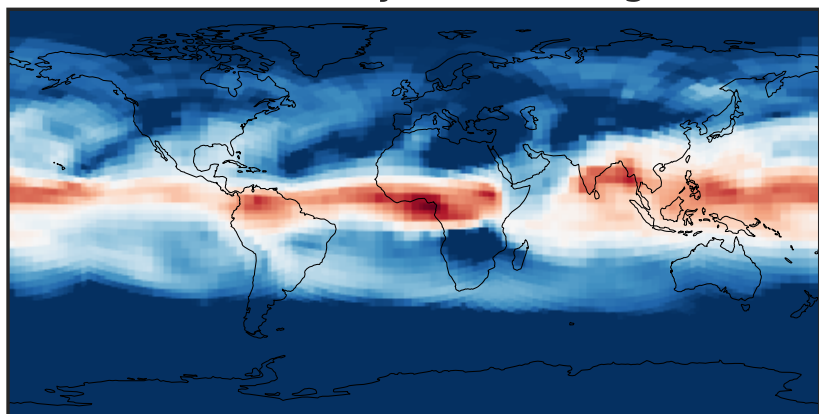
-0.0863 -0.0431 0.0000 0.0431 0.0863  
ppb

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



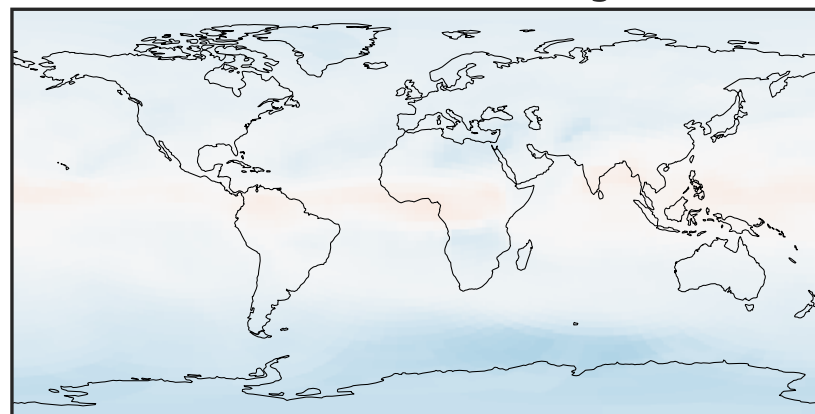
-0.025 0.000 0.025  
ppb

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



0.9435 0.9717 1.0000 1.0300 1.0599  
unitless

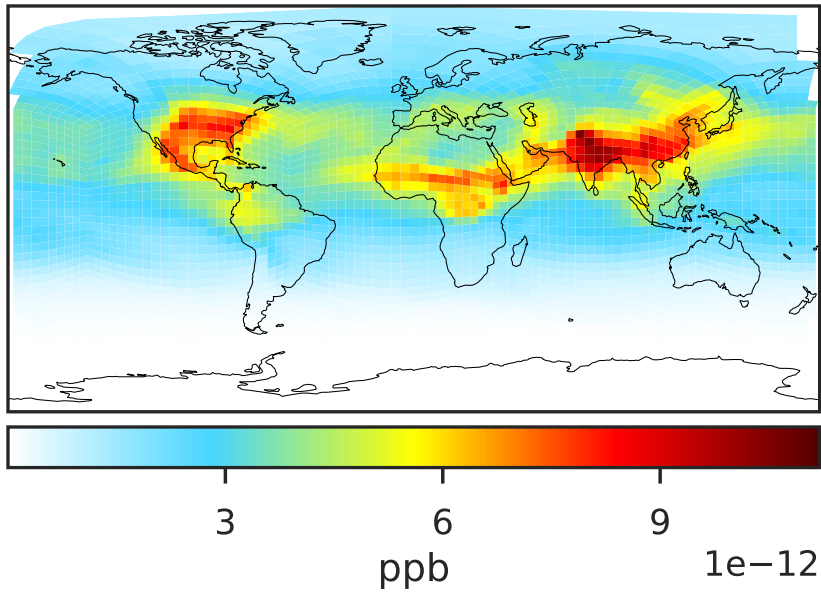
Ratio (1x1.25)  
Dev/Ref, Fixed Range



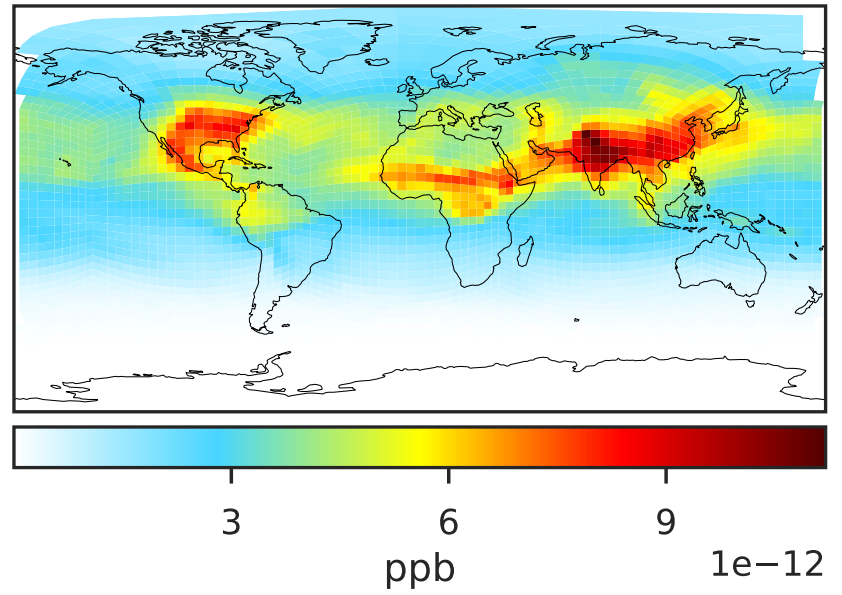
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_H (Jul2019)

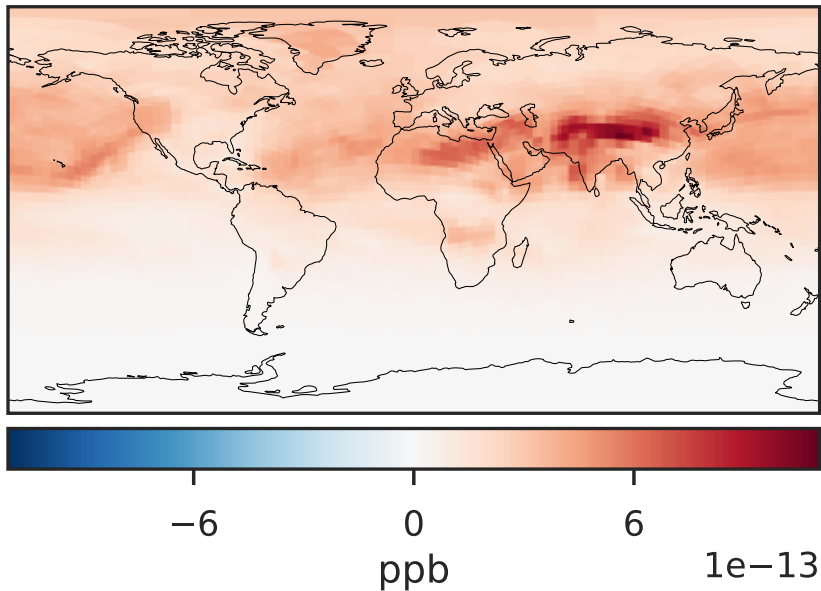
GCHP\_14.0.0 (Ref)  
c24



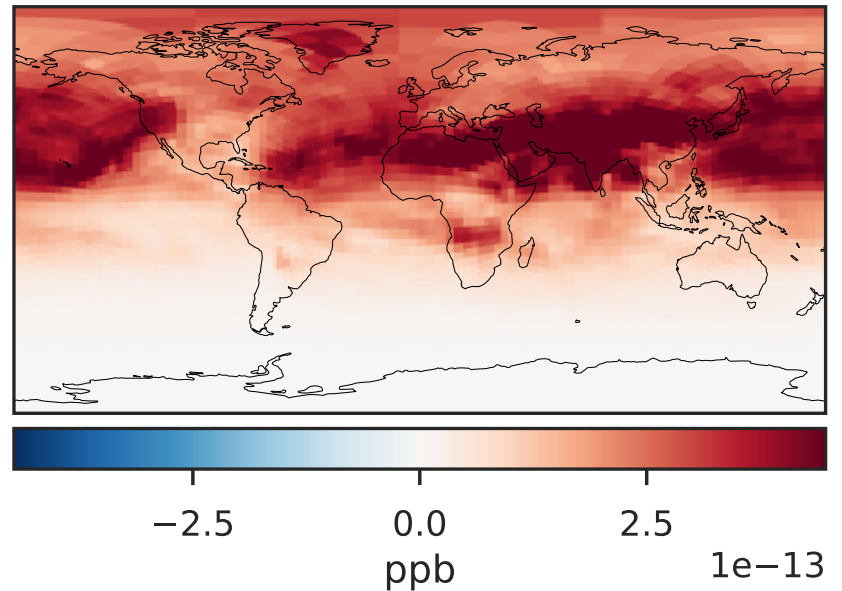
GCHP\_14.2.0 (Dev)  
c24



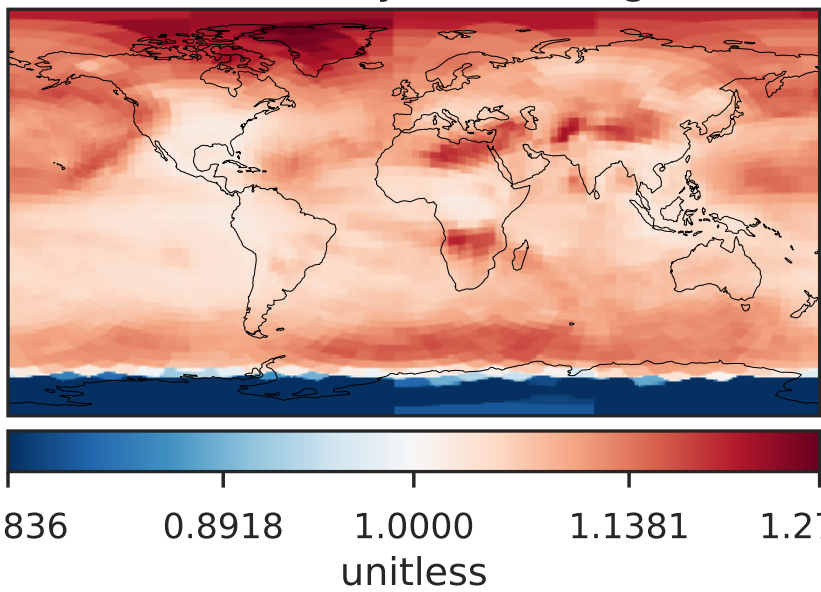
Difference (1x1.25)  
Dev - Ref, Dynamic Range



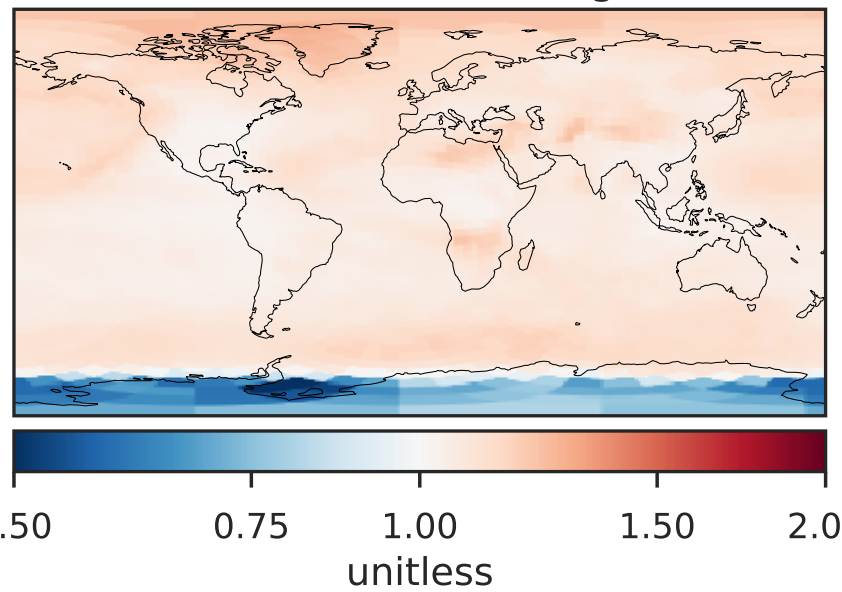
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

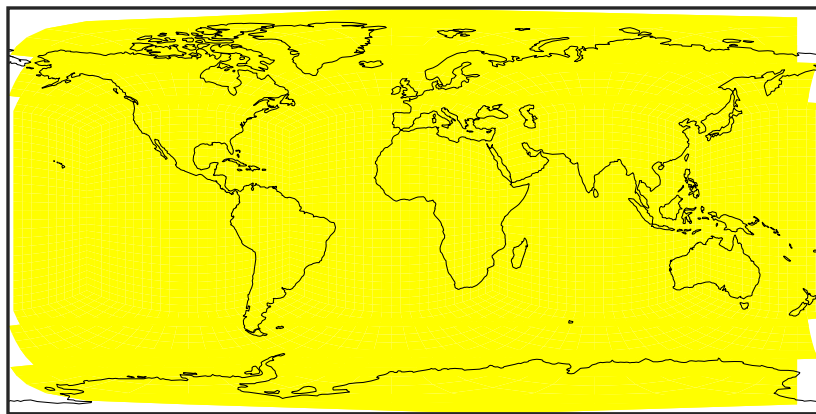


Ratio (1x1.25)  
Dev/Ref, Fixed Range



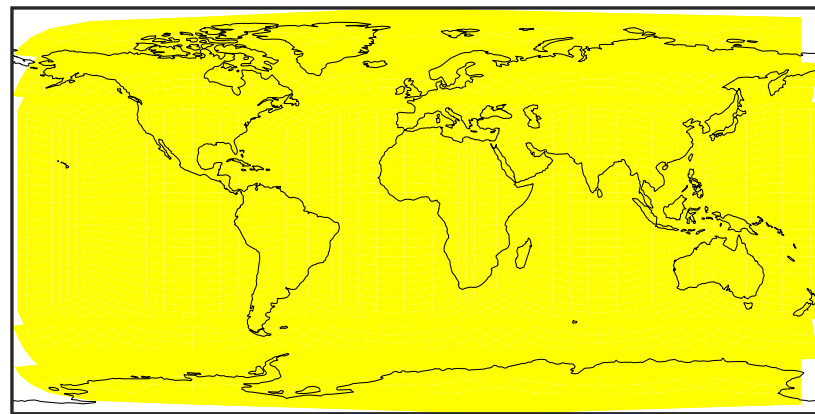
# SpeciesConcVV\_H2 (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



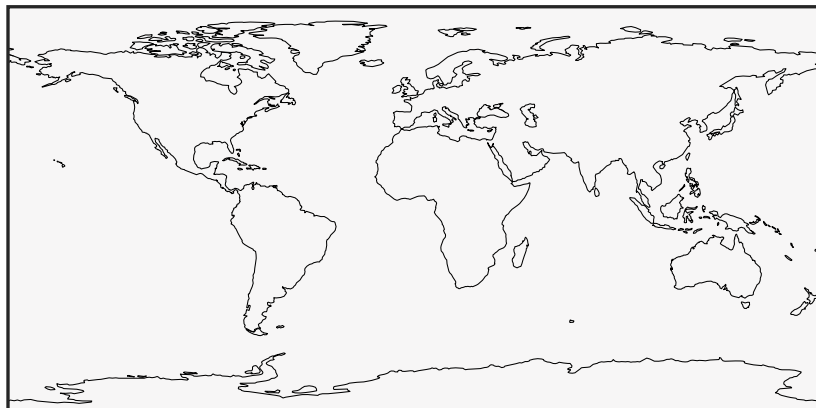
450 475 500 525  
ppb

GCHP\_14.2.0 (Dev)  
c24



450 475 500 525  
ppb

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



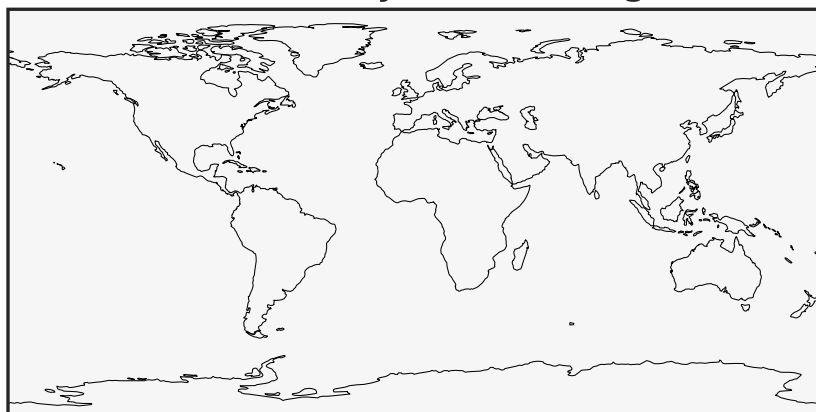
Zero throughout domain  
ppb

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



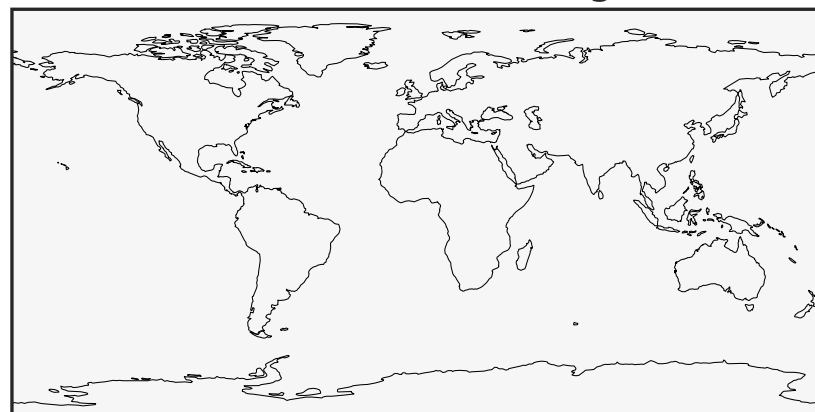
Zero throughout domain  
ppb

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



Ref and Dev equal throughout domain  
unitless

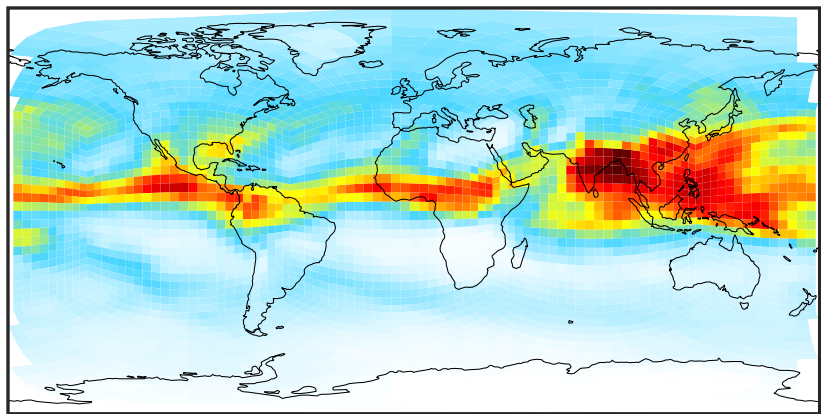
Ratio (1x1.25)  
Dev/Ref, Fixed Range



Ref and Dev equal throughout domain  
unitless

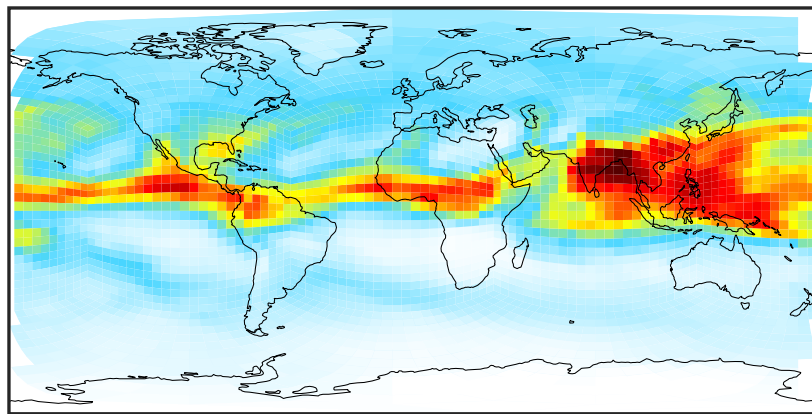
# SpeciesConcVV\_H2O (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



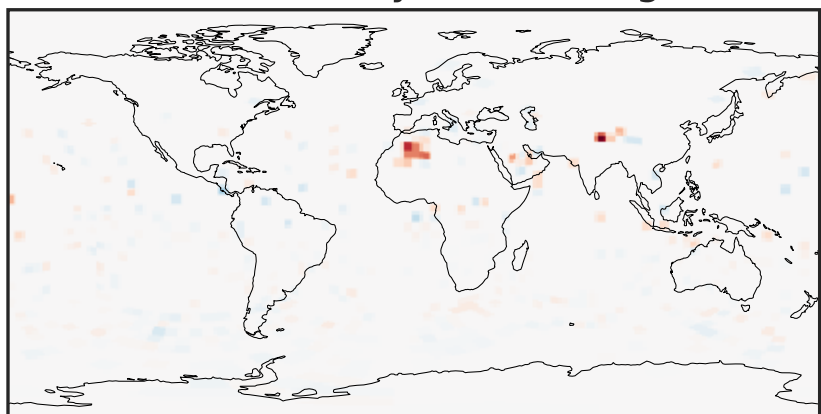
2.5 5.0 7.5  
ppb 1e6

GCHP\_14.2.0 (Dev)  
c24



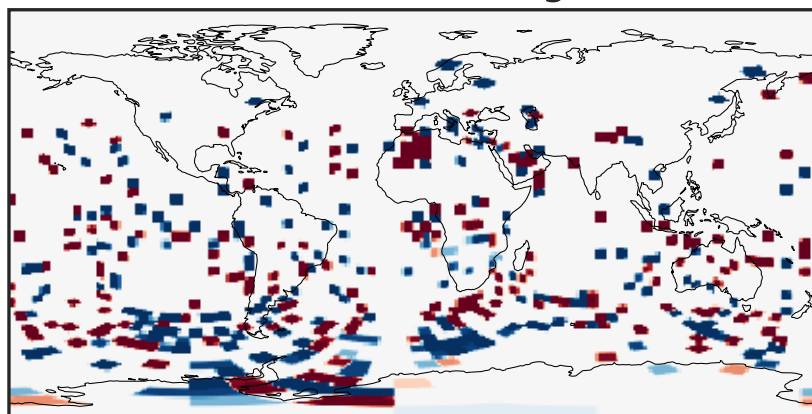
2.5 5.0 7.5  
ppb 1e6

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



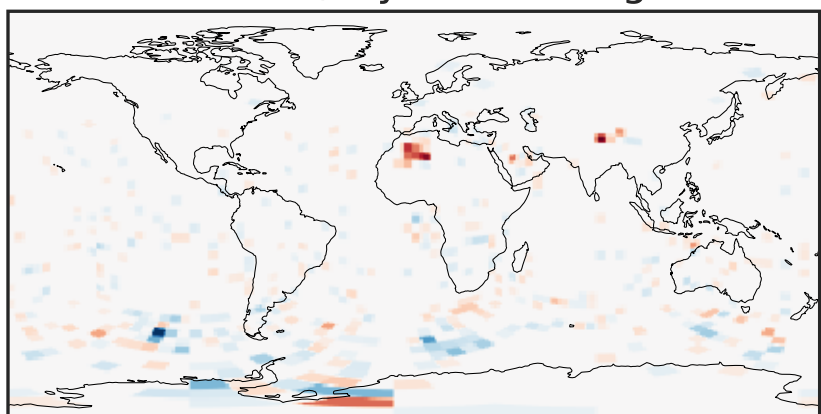
-3.0 -1.5 0.0 1.5 3.0  
ppb

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



-0.02 0.00 0.02  
ppb

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



0.999999025 1.000000000  
unitless

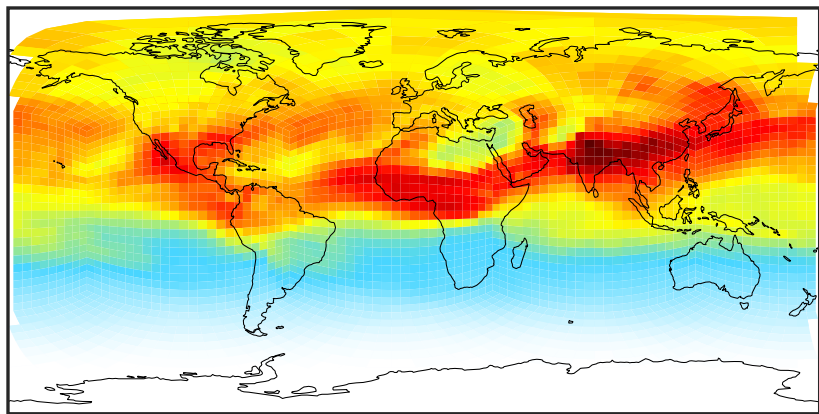
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

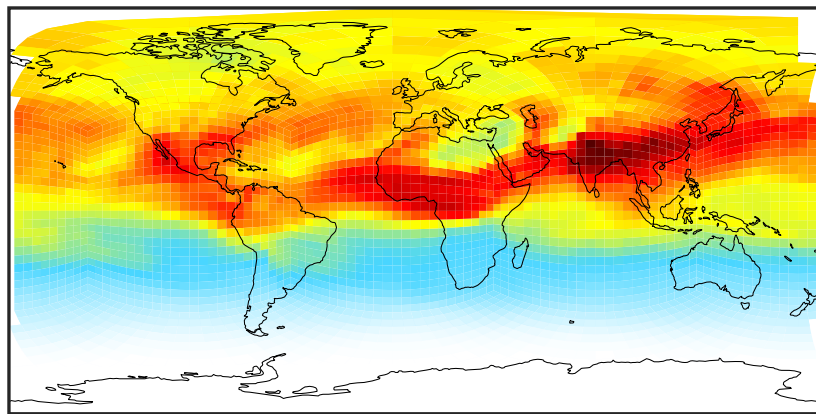
# SpeciesConcVV\_HO2 (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



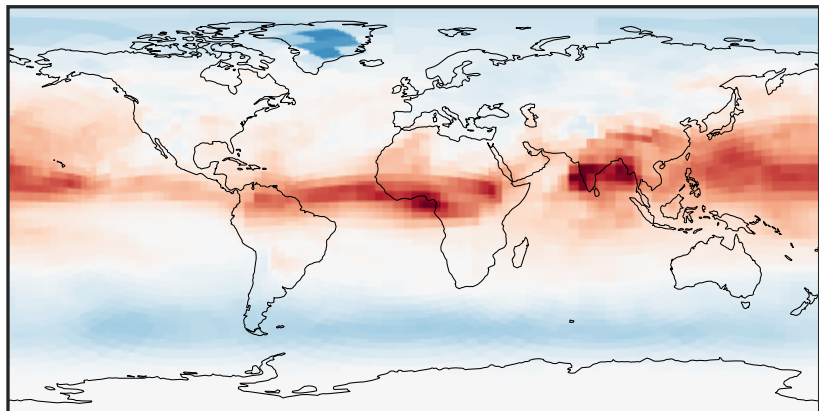
0.004 0.008 0.012  
ppb

GCHP\_14.2.0 (Dev)  
c24



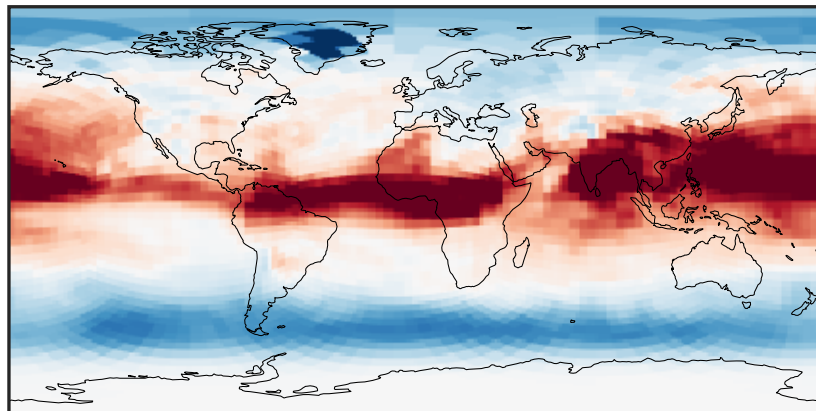
0.004 0.008 0.012  
ppb

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



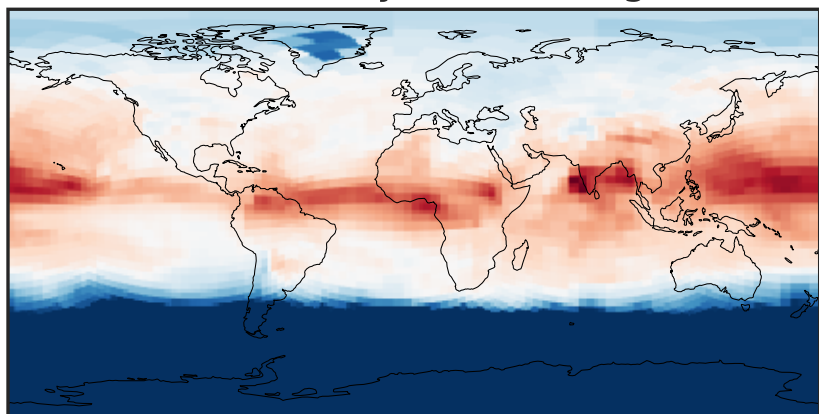
-0.00025 0.00000 0.00025  
ppb

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



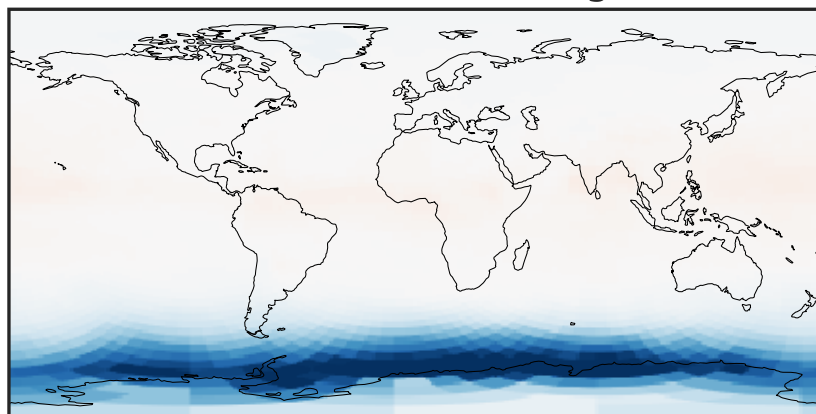
-0.00015 0.00000 0.00015  
ppb

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



0.95510 0.97755 1.00000 1.02351 1.04701  
unitless

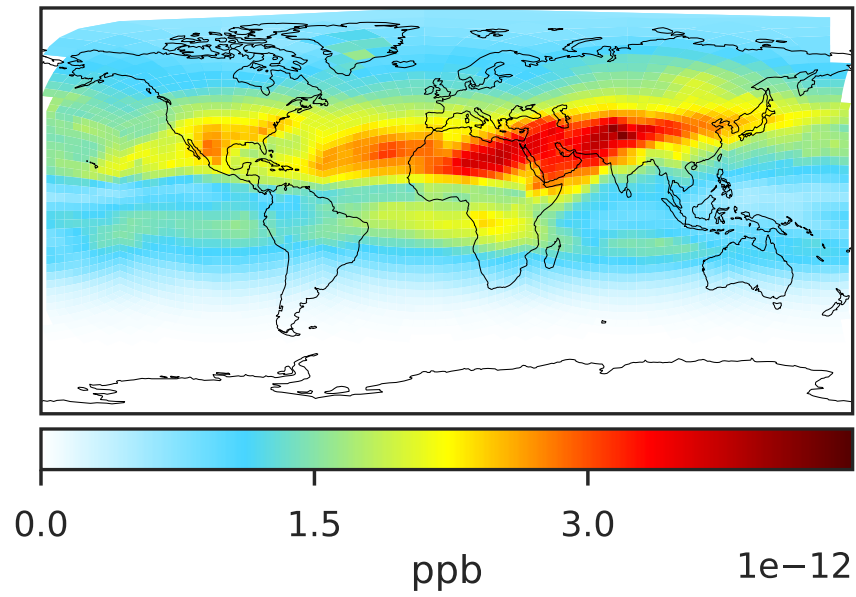
Ratio (1x1.25)  
Dev/Ref, Fixed Range



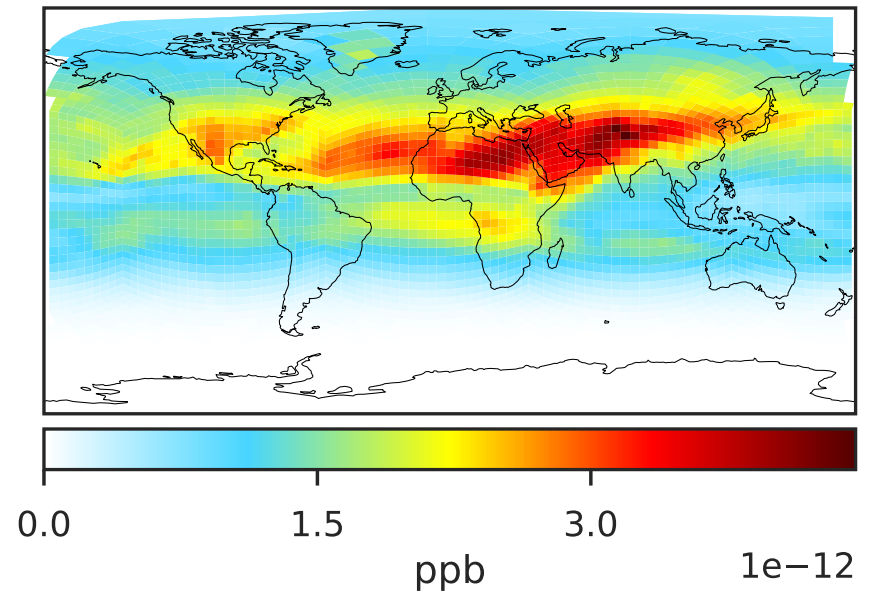
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_01D (Jul2019)

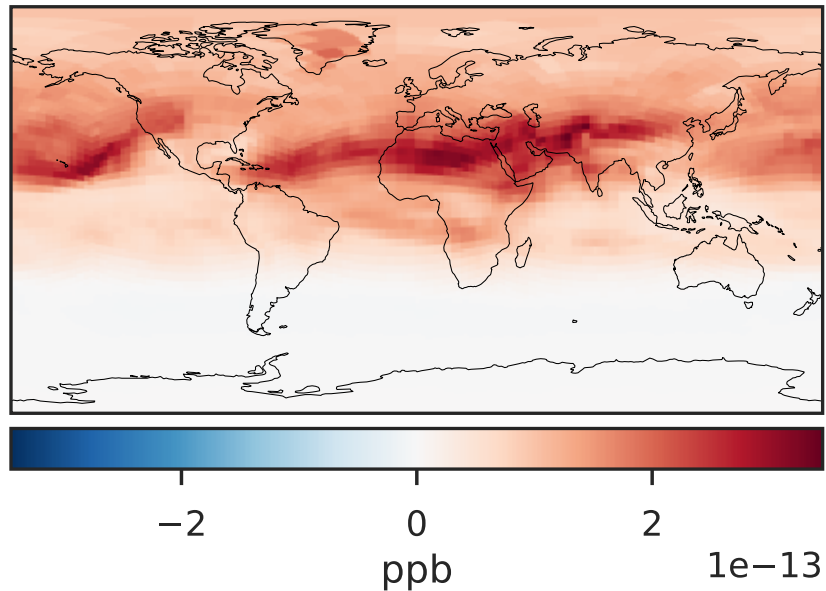
GCHP\_14.0.0 (Ref)  
c24



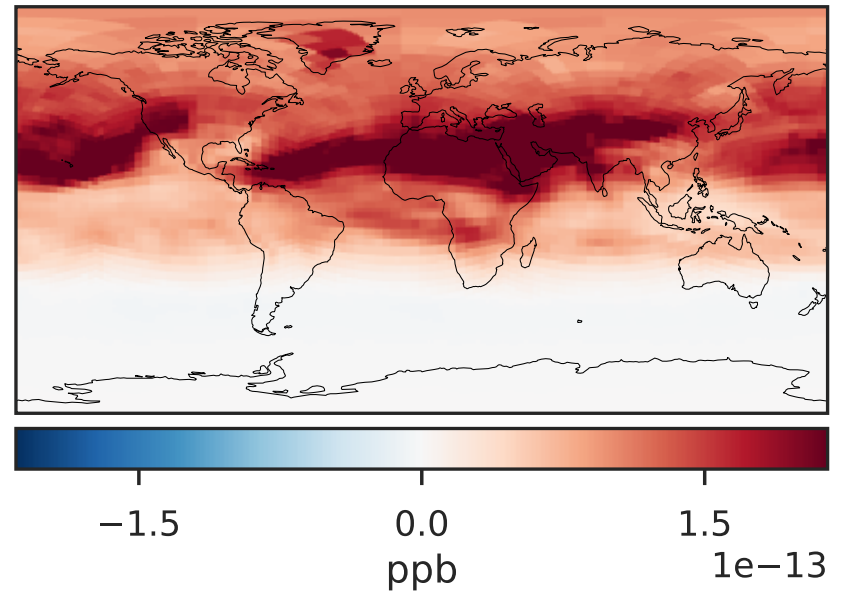
GCHP\_14.2.0 (Dev)  
c24



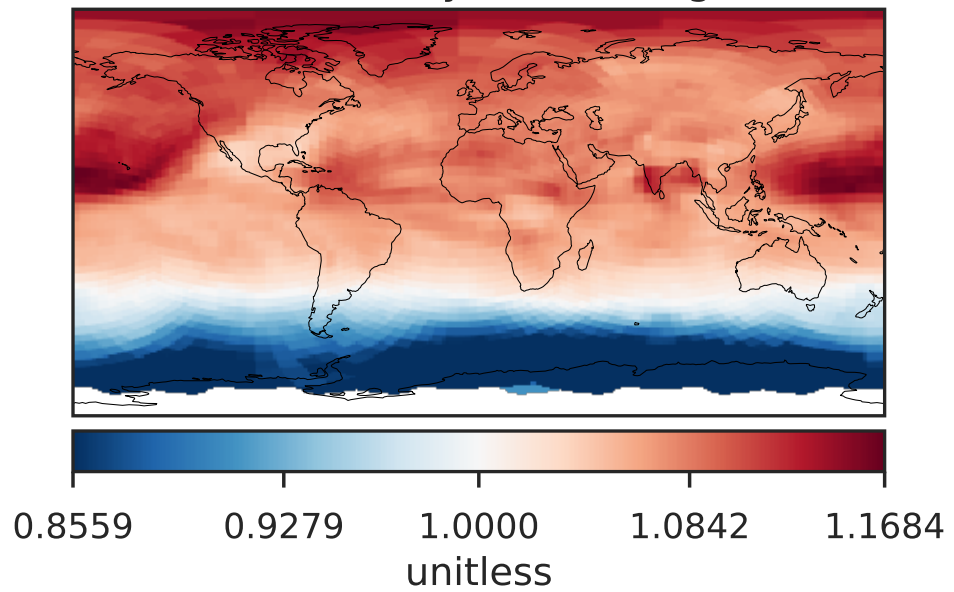
Difference (1x1.25)  
Dev - Ref, Dynamic Range



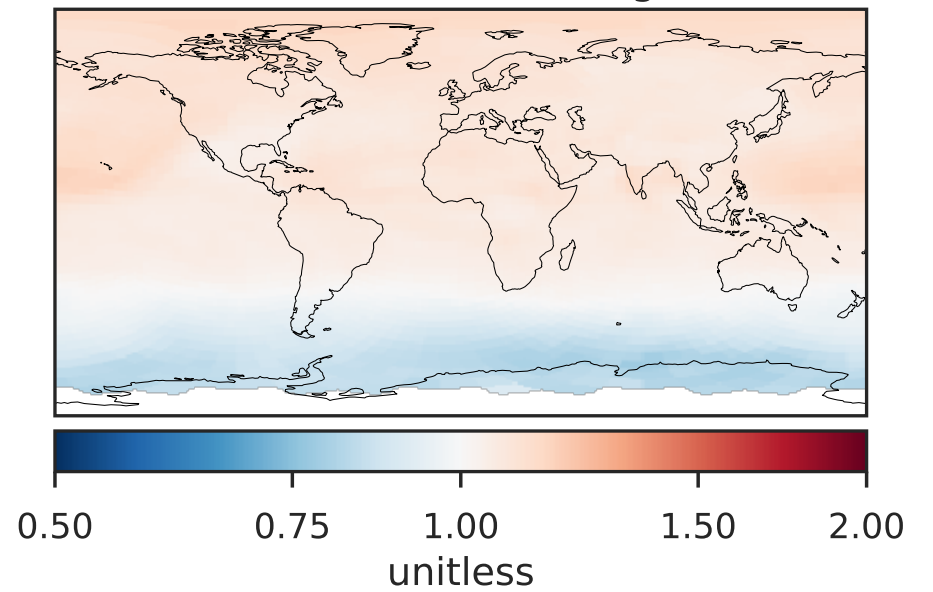
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

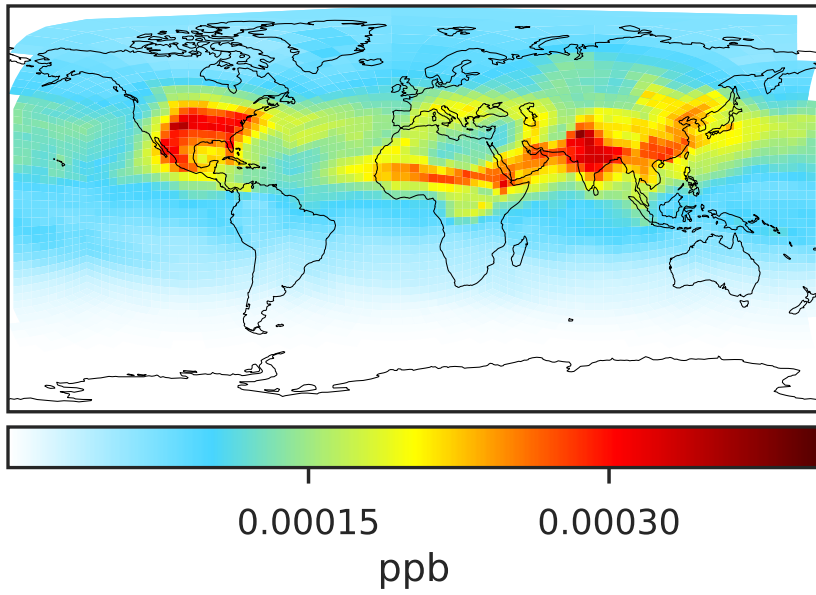


Ratio (1x1.25)  
Dev/Ref, Fixed Range

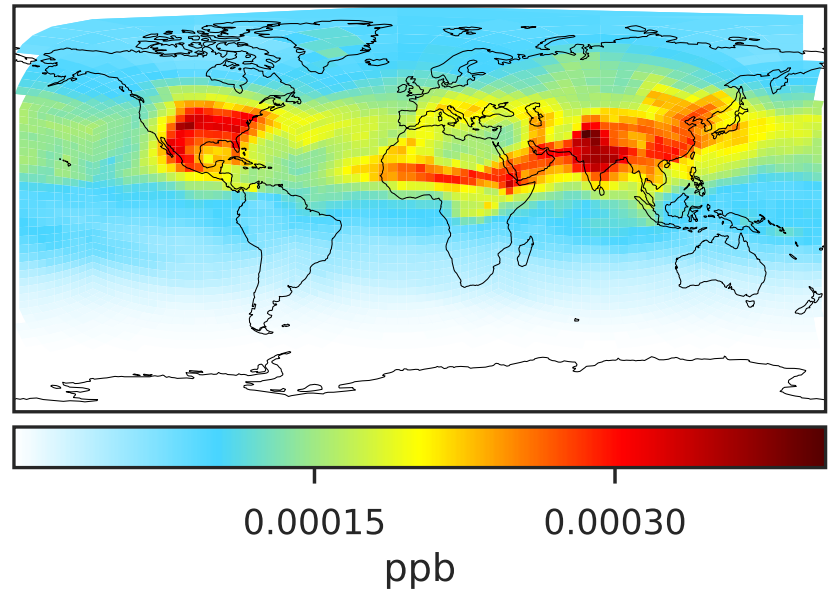


# SpeciesConcVV\_OH (Jul2019)

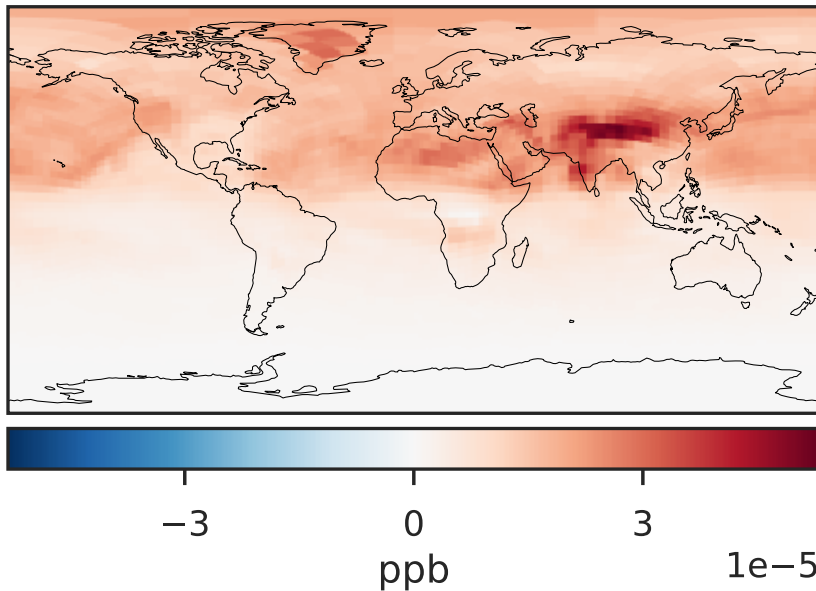
GCHP\_14.0.0 (Ref)  
c24



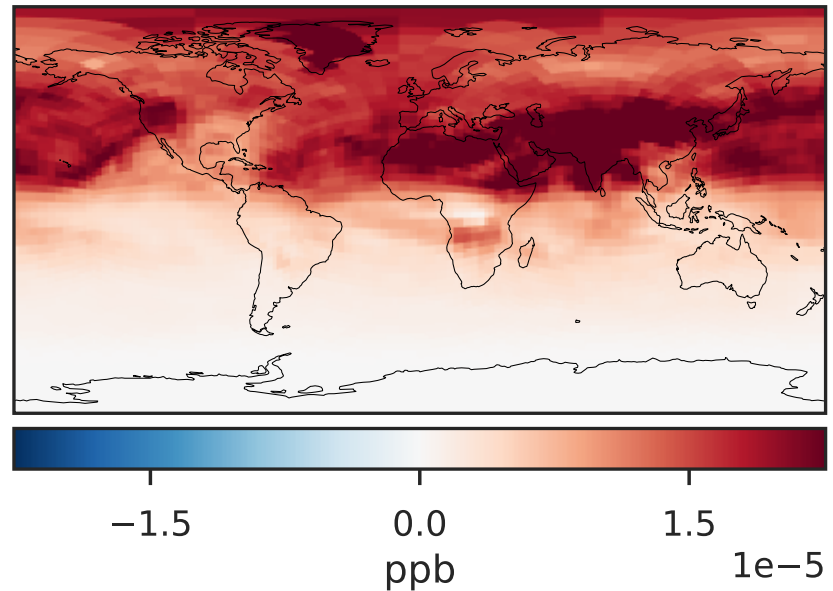
GCHP\_14.2.0 (Dev)  
c24



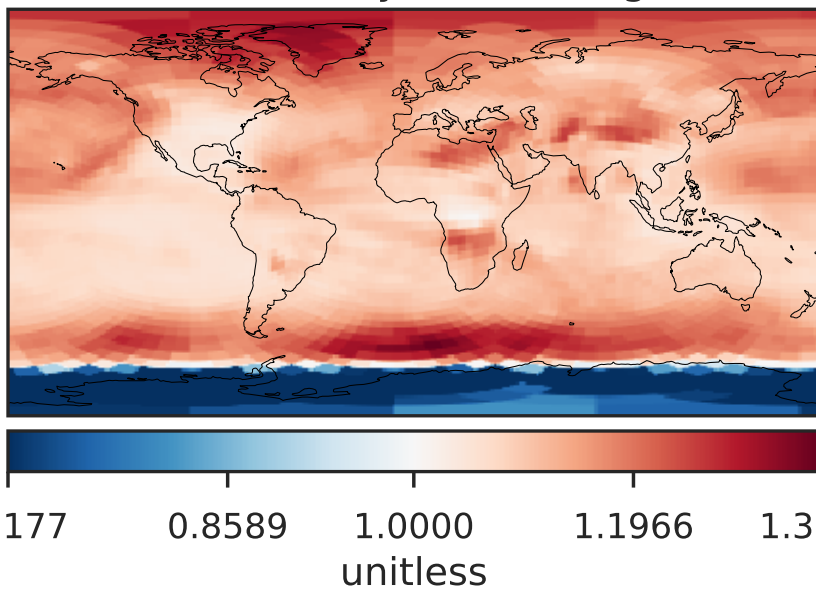
Difference (1x1.25)  
Dev - Ref, Dynamic Range



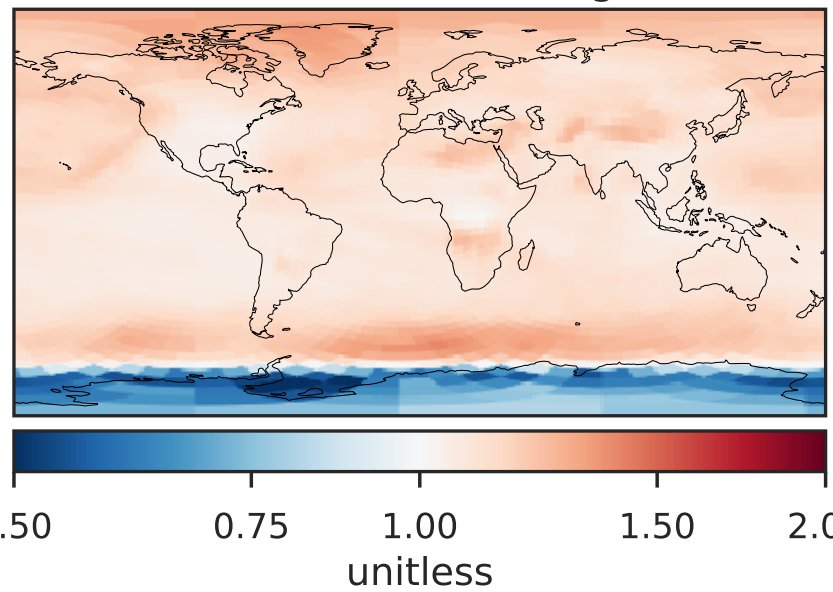
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

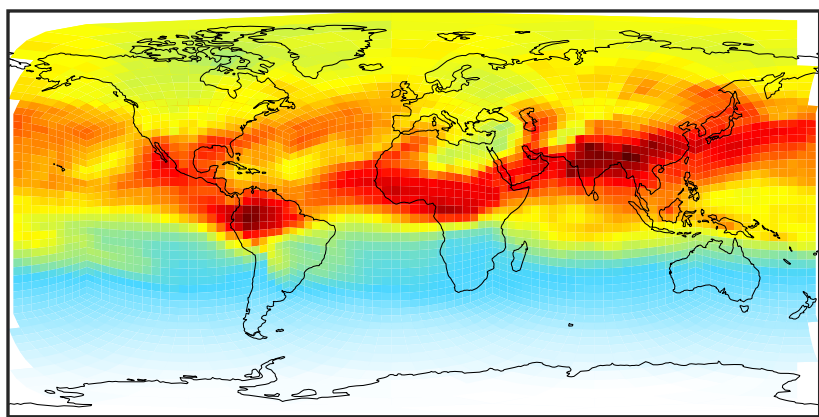


Ratio (1x1.25)  
Dev/Ref, Fixed Range



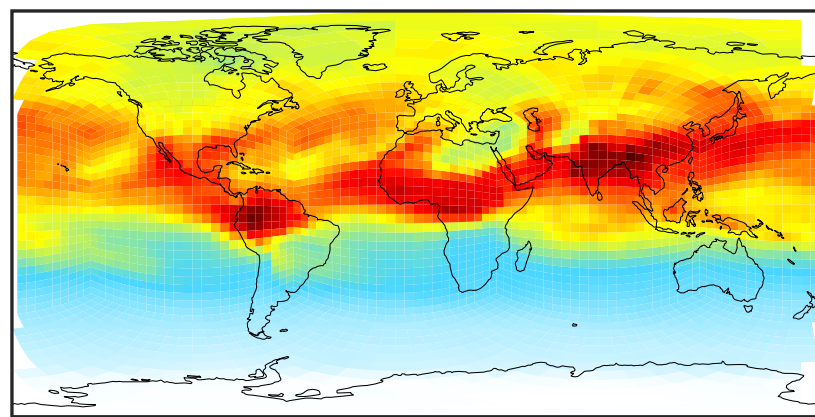
# SpeciesConcVV\_RO2 (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



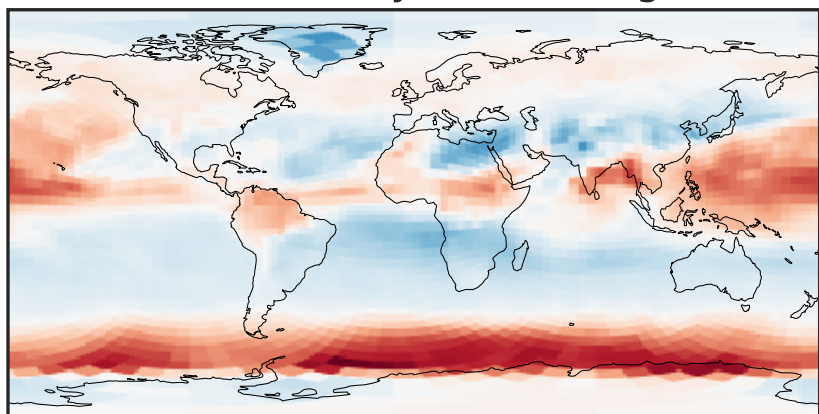
0.006 0.012 0.018  
ppb

GCHP\_14.2.0 (Dev)  
c24



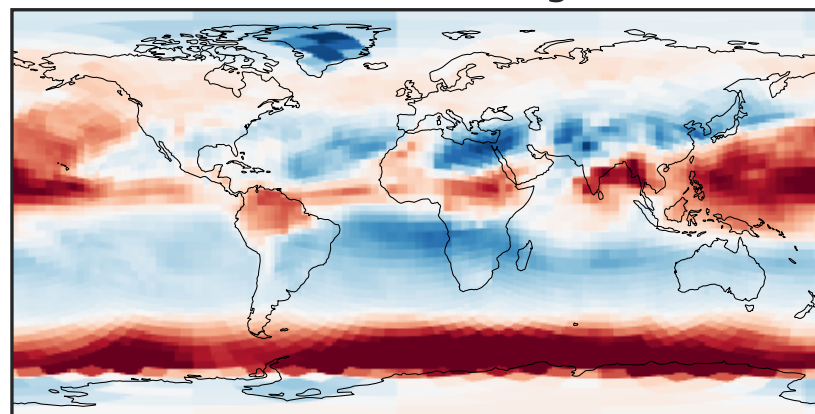
0.006 0.012 0.018  
ppb

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



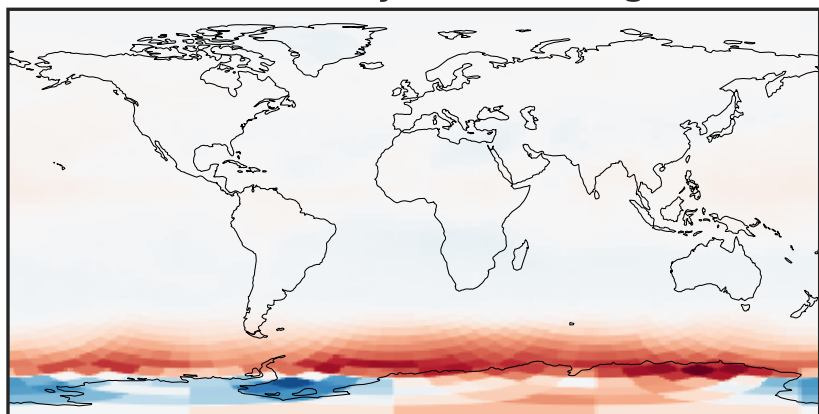
-0.0005 0.0000 0.0005  
ppb

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



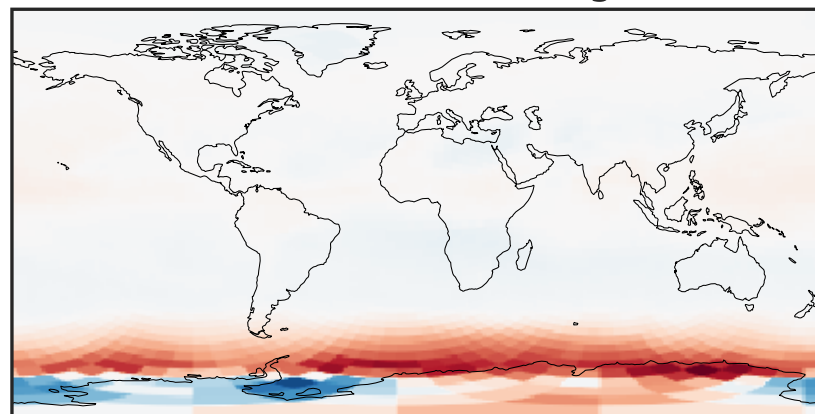
-0.00025 0.00000 0.00025  
ppb

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



0.495 0.747 1.000 1.511 2.021  
unitless

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



0.50 0.75 1.00 1.50 2.00  
unitless