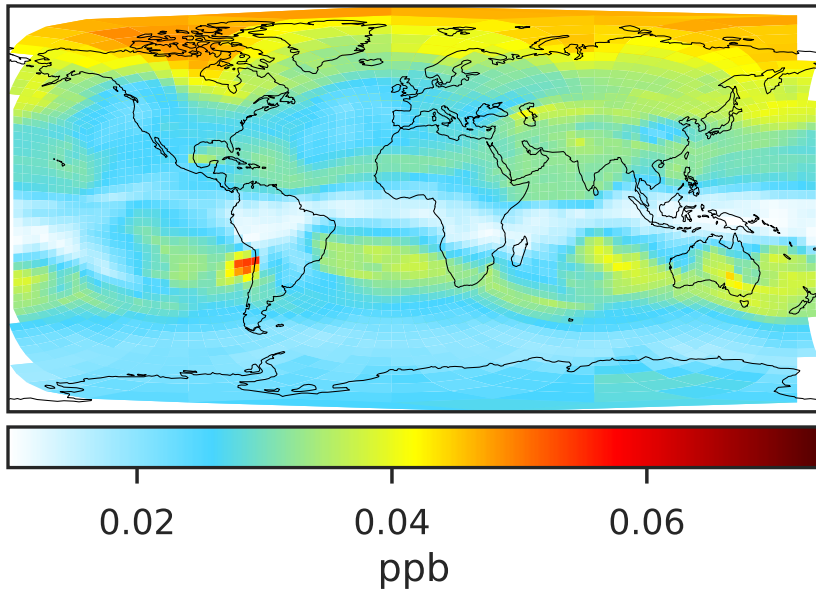
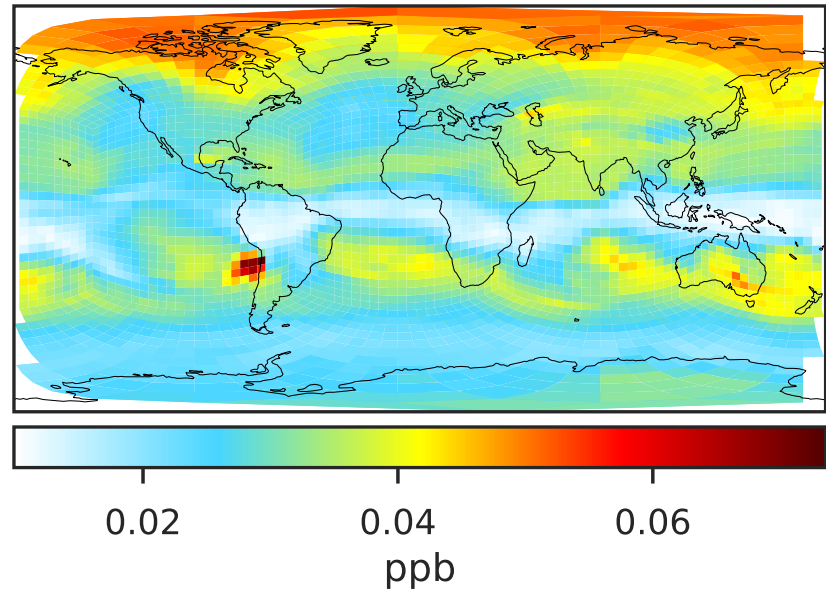


# SpeciesConcVV\_Cly (Jan2019)

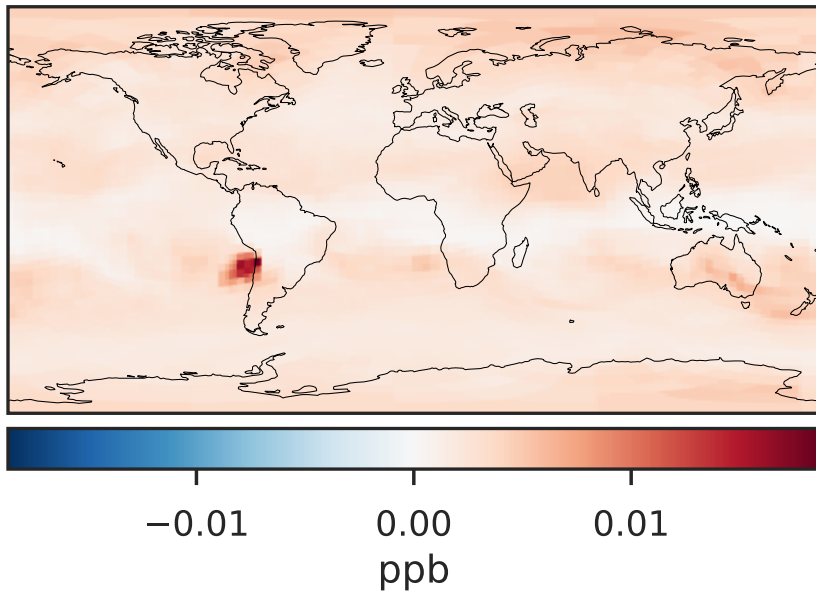
GCHP\_14.0.0 (Ref)  
c24



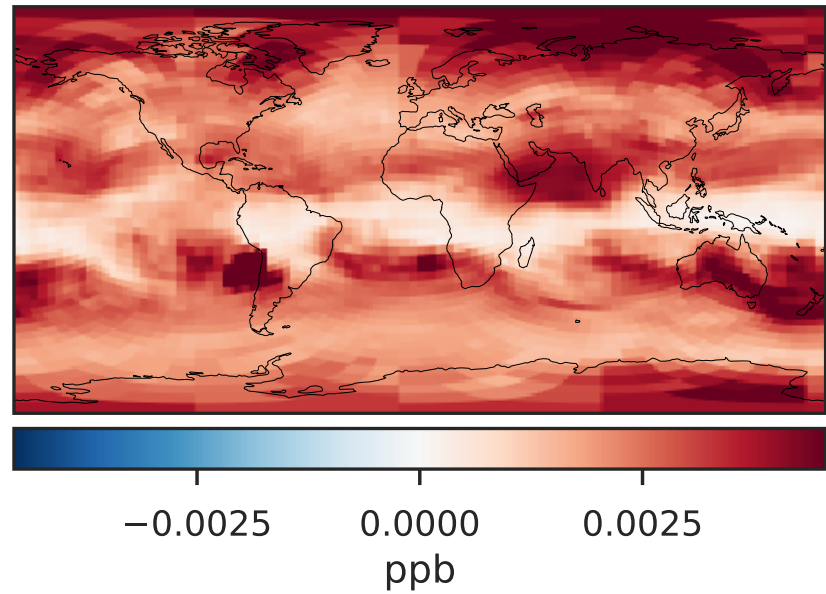
GCHP\_14.2.0 (Dev)  
c24



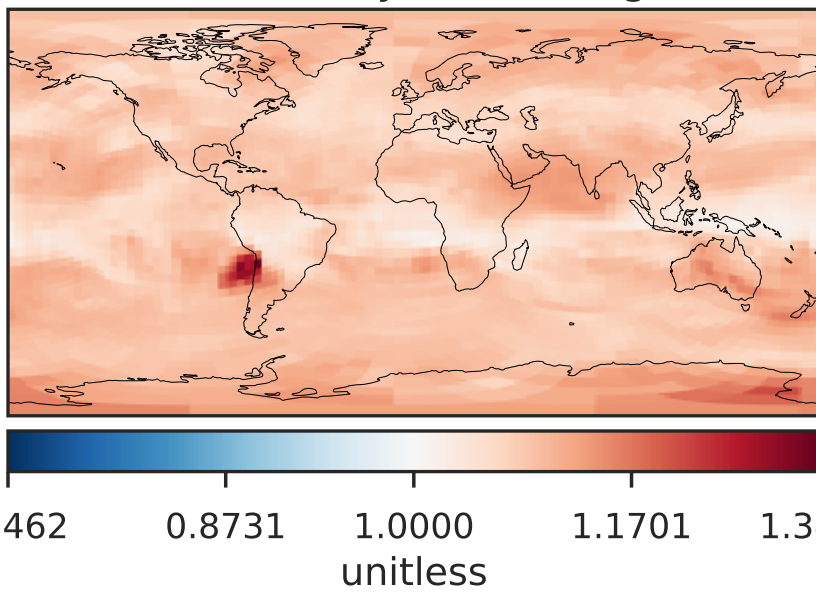
Difference (1x1.25)  
Dev - Ref, Dynamic Range



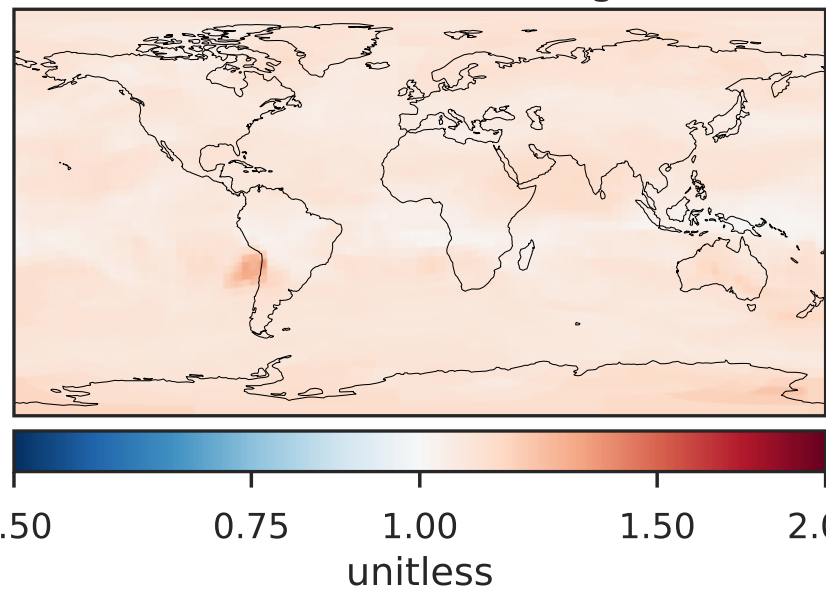
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

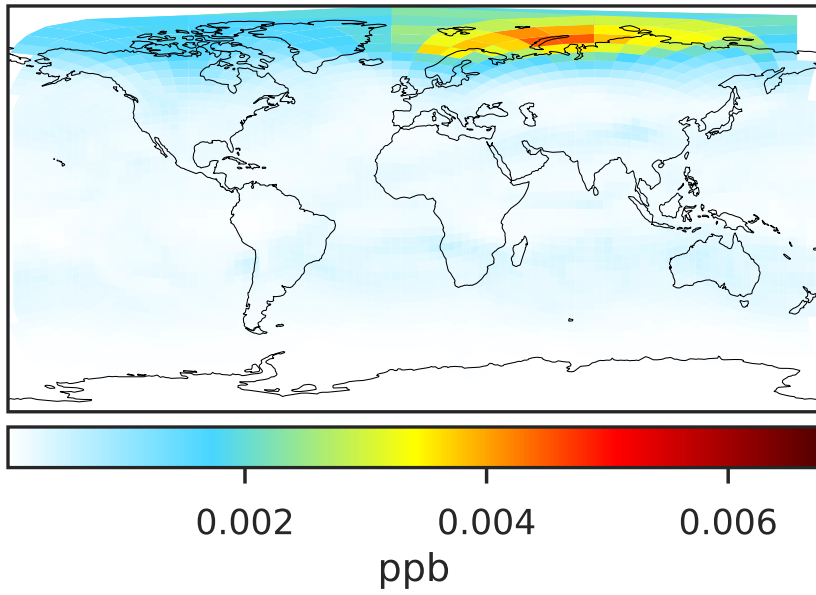


Ratio (1x1.25)  
Dev/Ref, Fixed Range

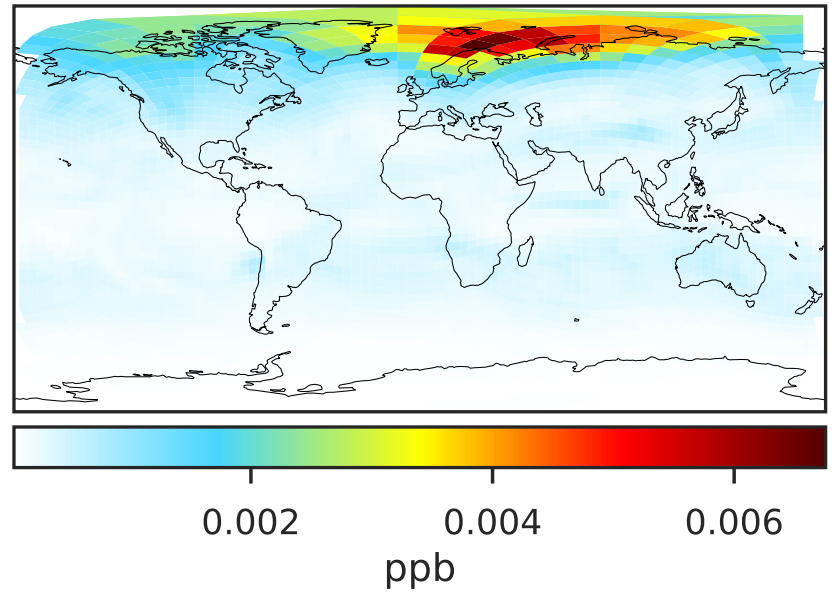


# SpeciesConcVV\_ClOx (Jan2019)

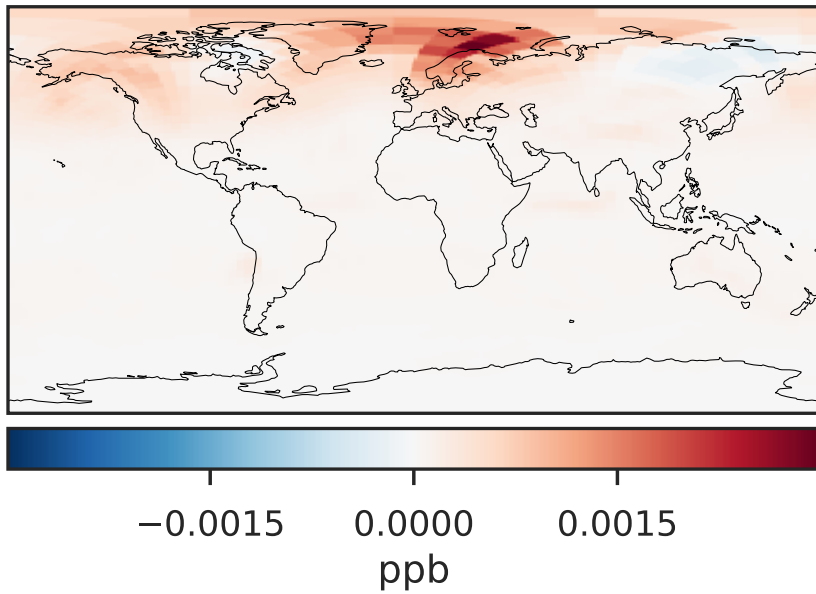
GCHP\_14.0.0 (Ref)  
c24



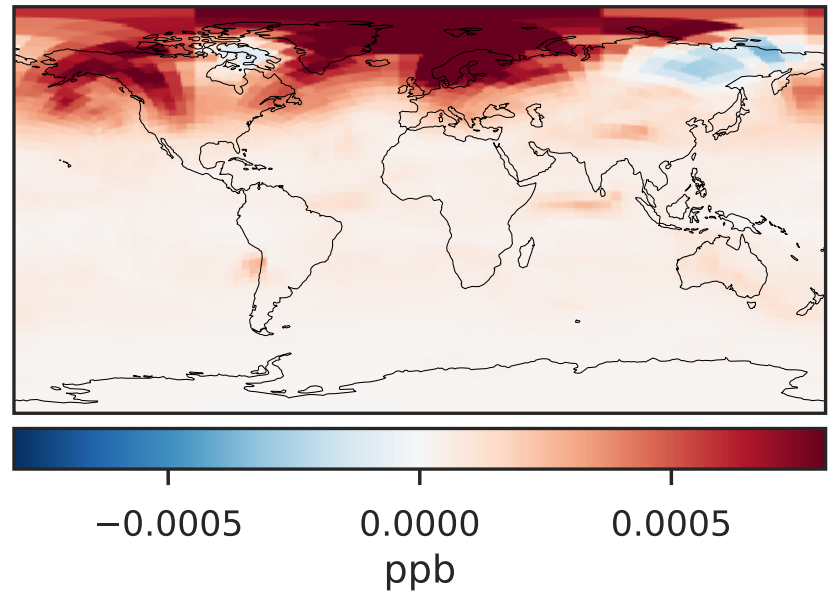
GCHP\_14.2.0 (Dev)  
c24



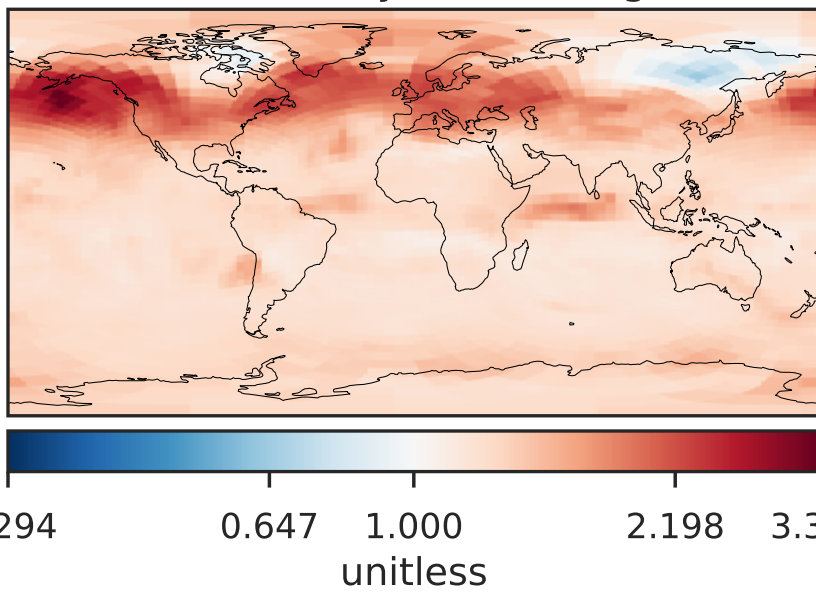
Difference (1x1.25)  
Dev - Ref, Dynamic Range



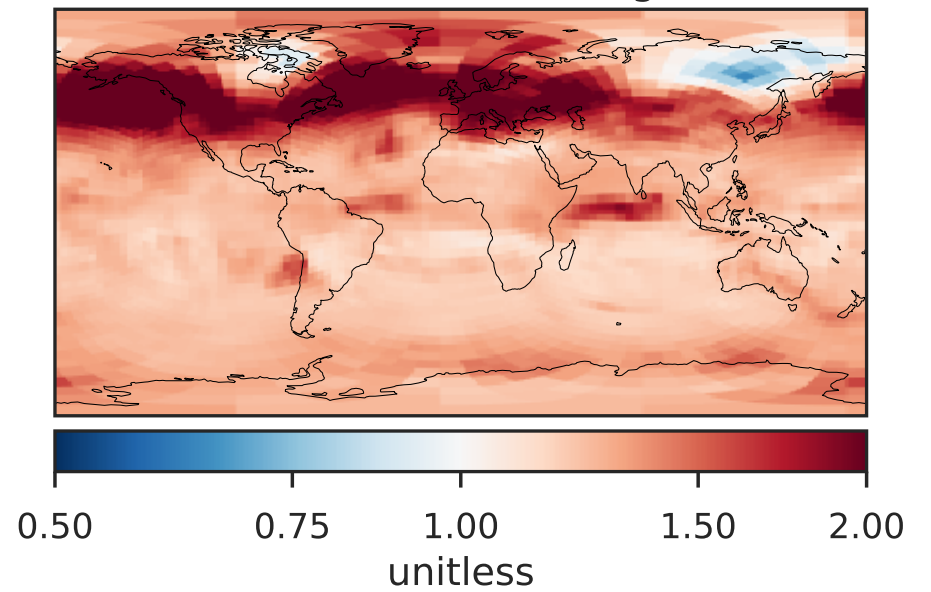
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

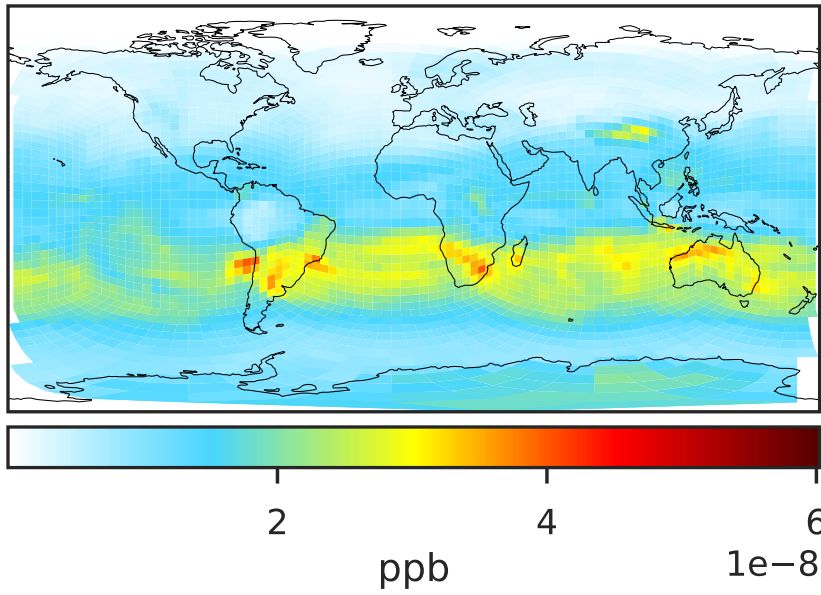


Ratio (1x1.25)  
Dev/Ref, Fixed Range

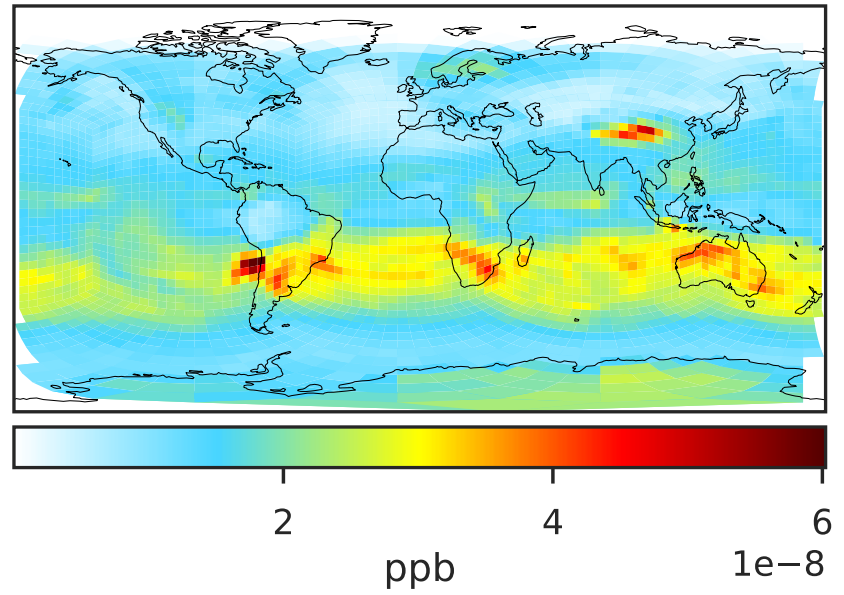


# SpeciesConcVV\_CI (Jan2019)

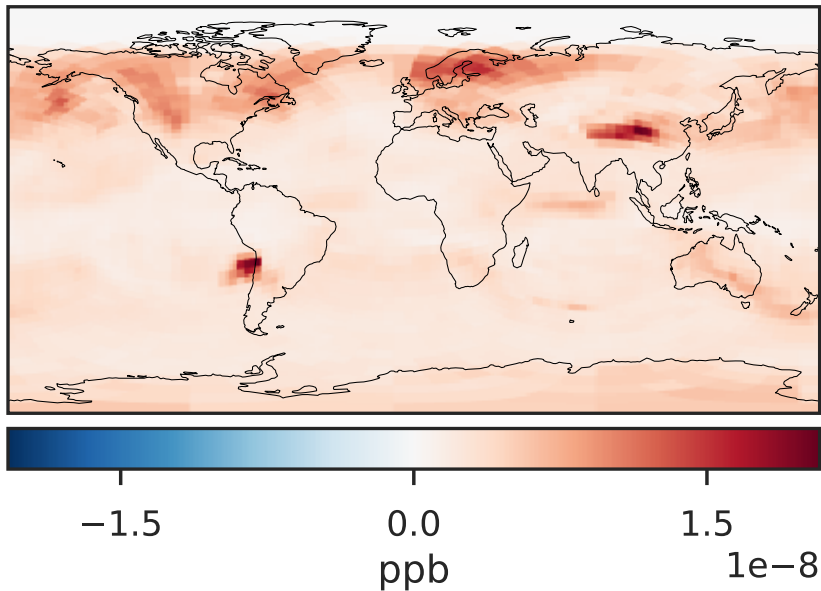
GCHP\_14.0.0 (Ref)  
c24



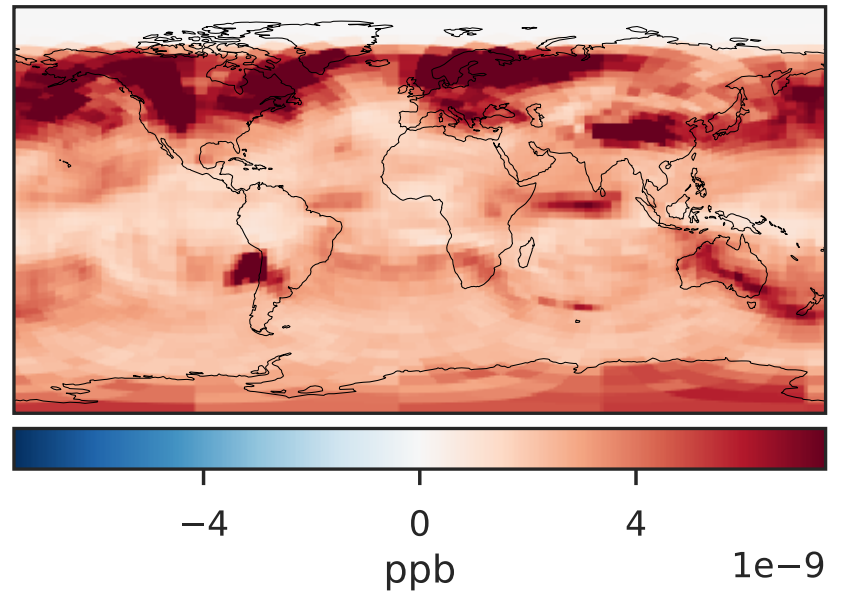
GCHP\_14.2.0 (Dev)  
c24



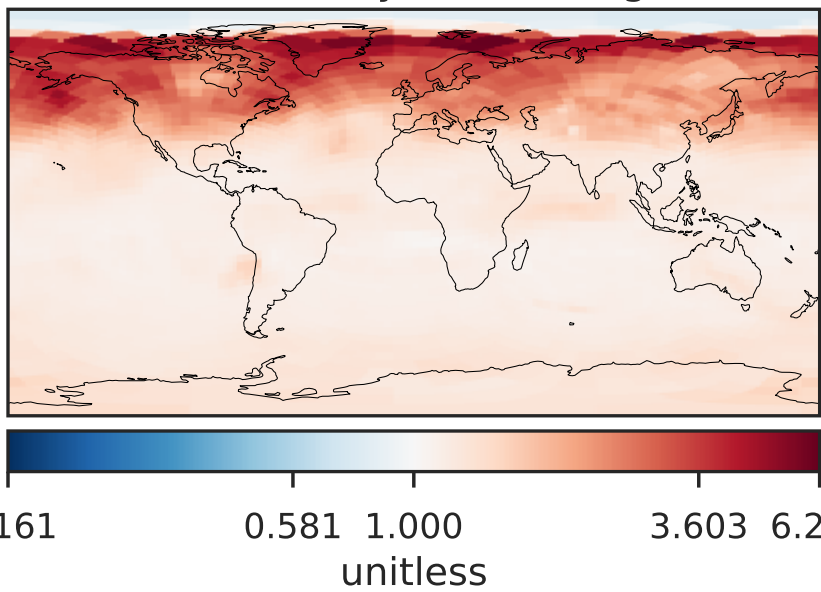
Difference (1x1.25)  
Dev - Ref, Dynamic Range



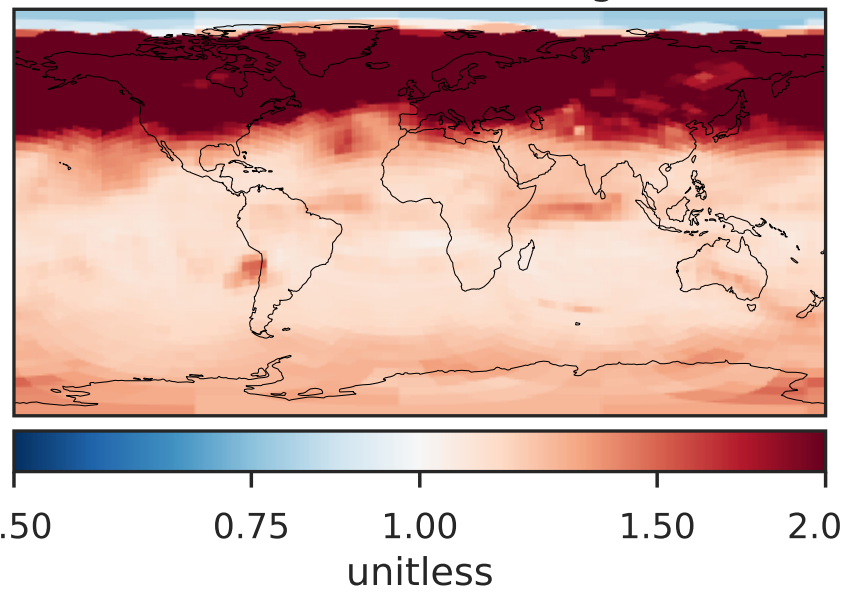
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

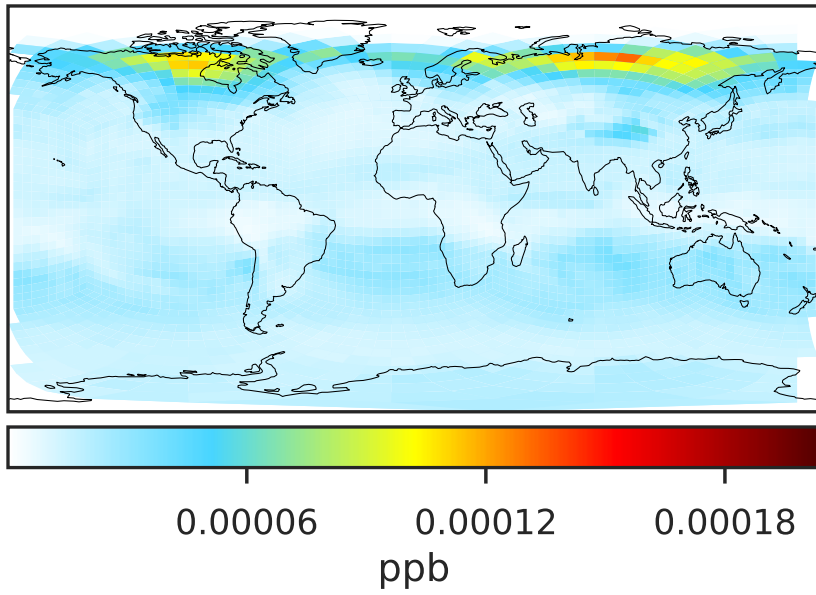


Ratio (1x1.25)  
Dev/Ref, Fixed Range

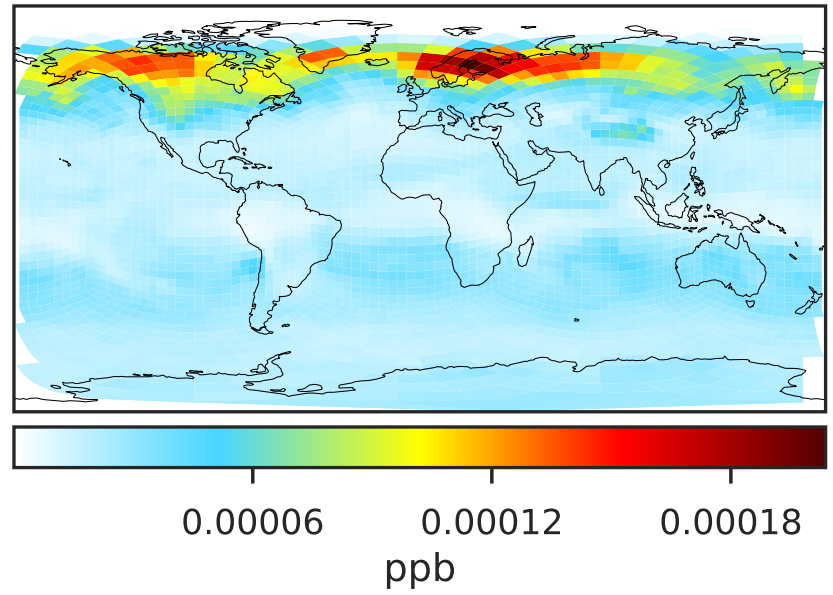


# SpeciesConcVV\_CIO (Jan2019)

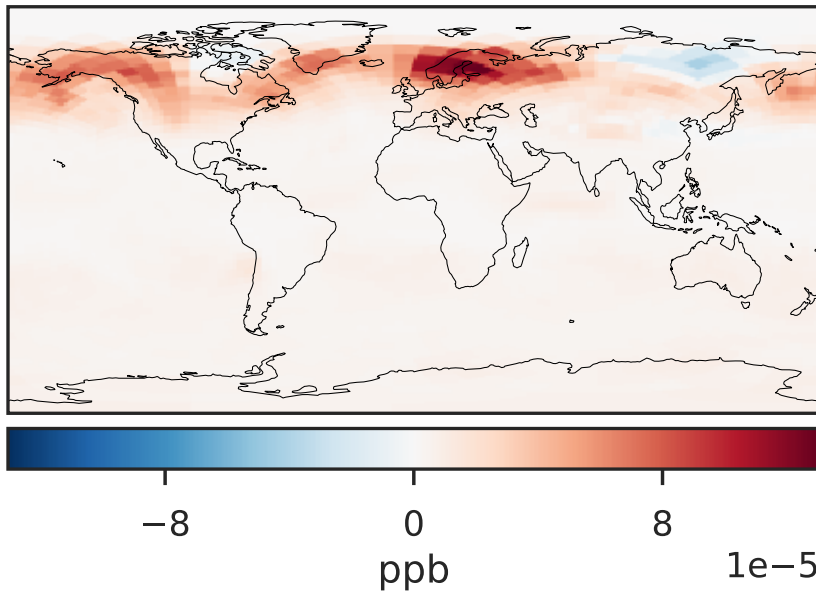
GCHP\_14.0.0 (Ref)  
c24



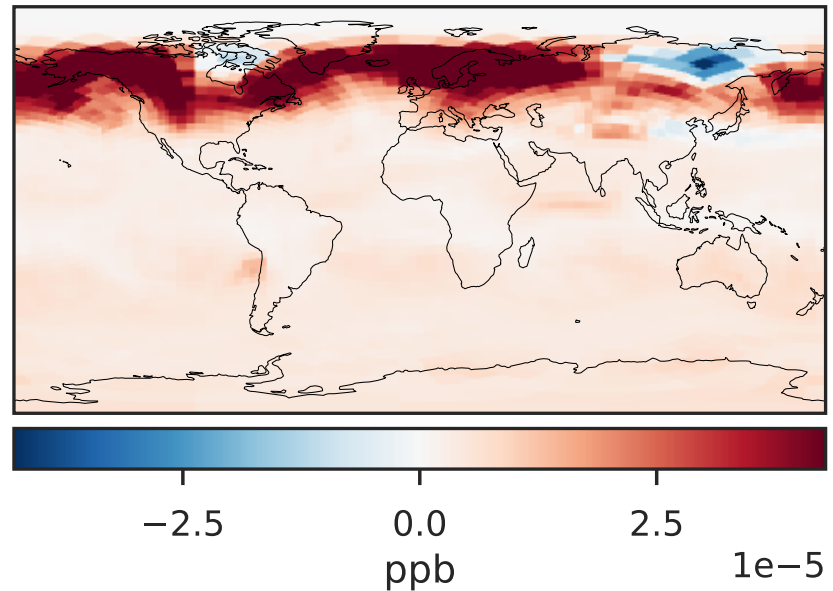
GCHP\_14.2.0 (Dev)  
c24



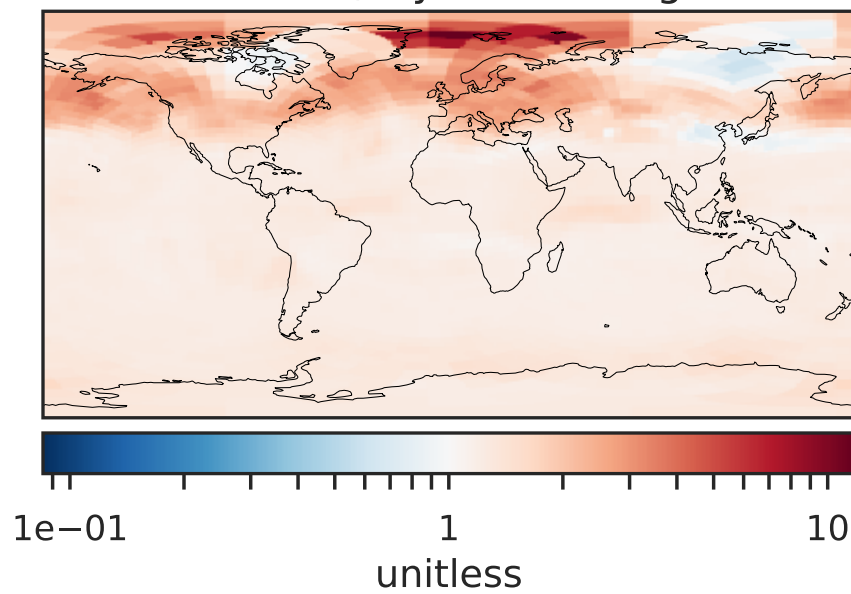
Difference (1x1.25)  
Dev - Ref, Dynamic Range



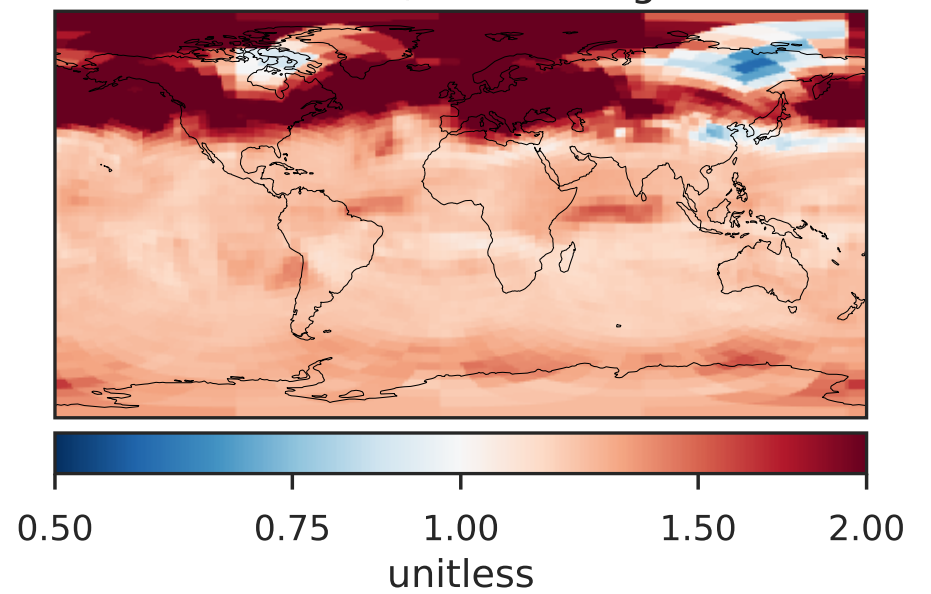
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

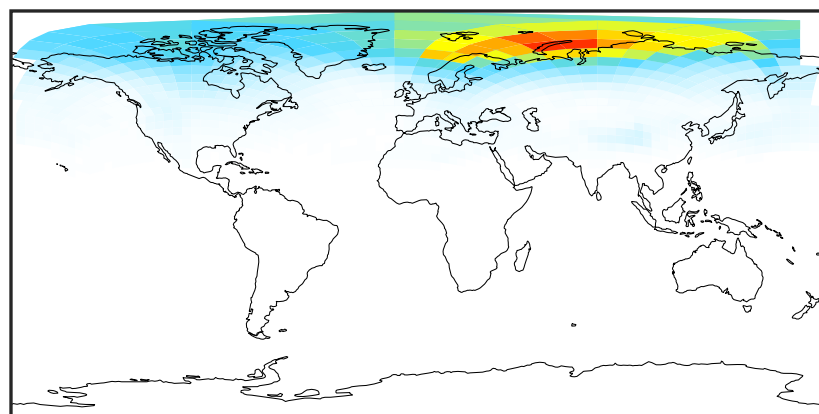


Ratio (1x1.25)  
Dev/Ref, Fixed Range



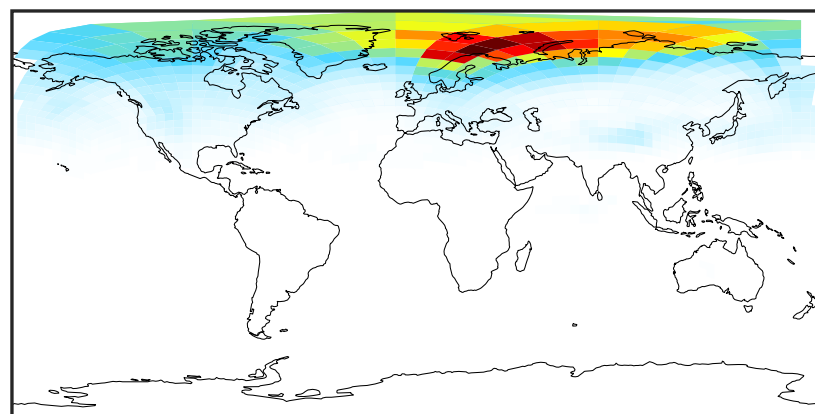
# SpeciesConcVV\_Cl2 (Jan2019)

GCHP\_14.0.0 (Ref)  
c24



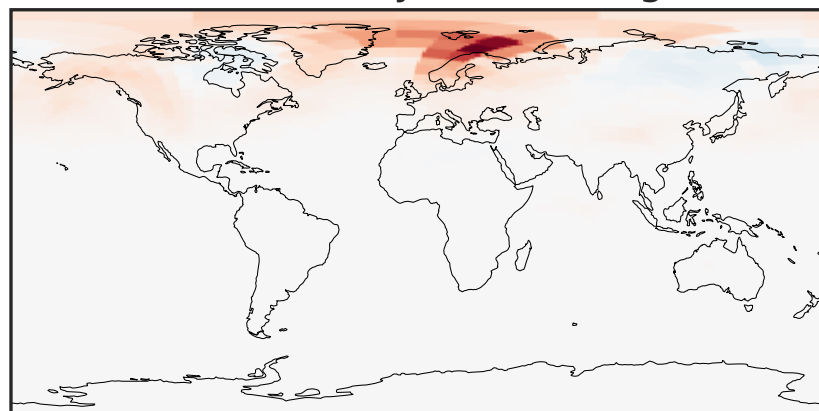
0.0008 0.0016 0.0024  
ppb

GCHP\_14.2.0 (Dev)  
c24



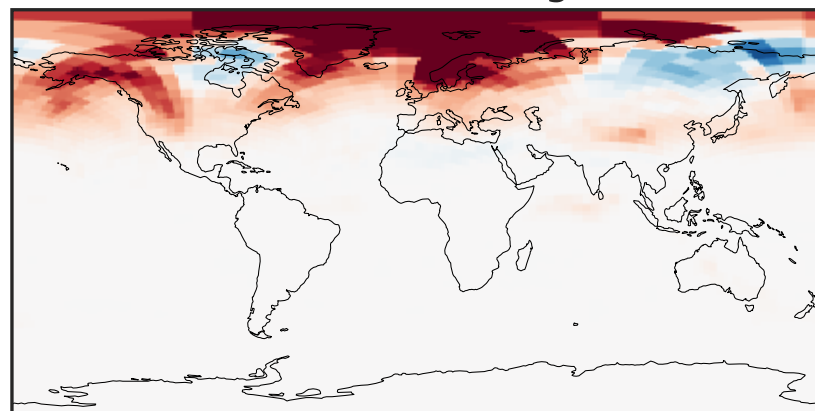
0.0008 0.0016 0.0024  
ppb

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



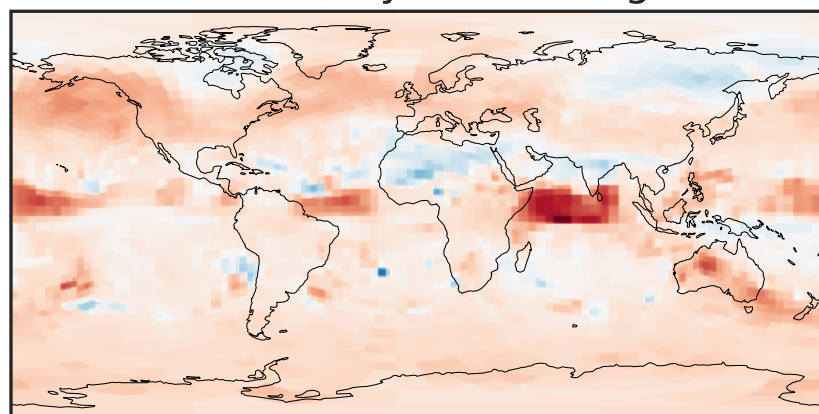
-0.0008 0.0000 0.0008  
ppb

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



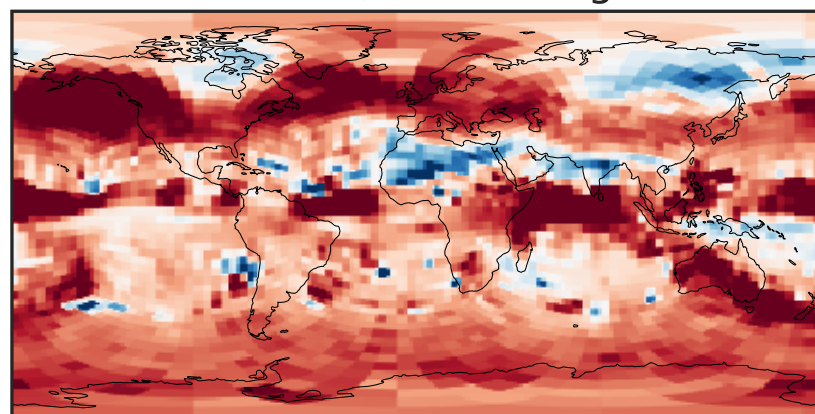
-0.00015 0.00000 0.00015  
ppb

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



1e-01 1 10  
unitless

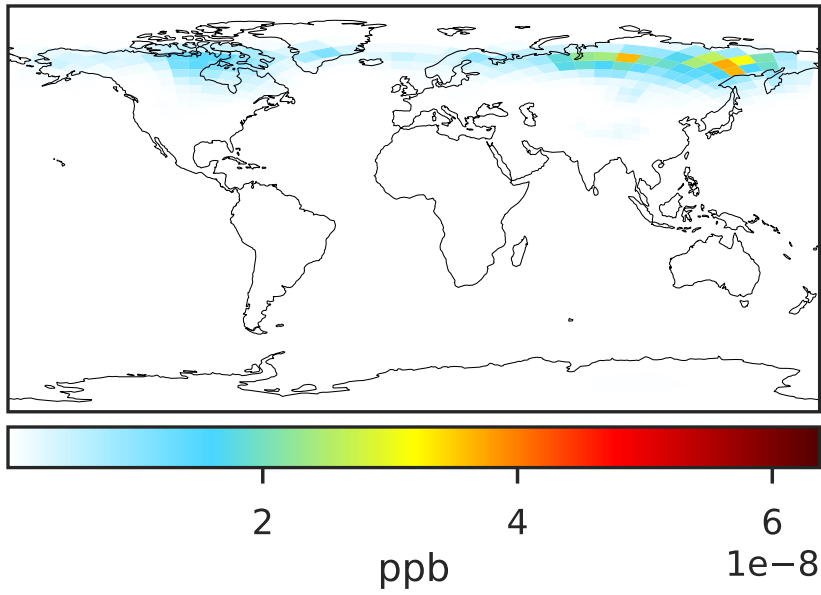
Ratio (1x1.25)  
Dev/Ref, Fixed Range



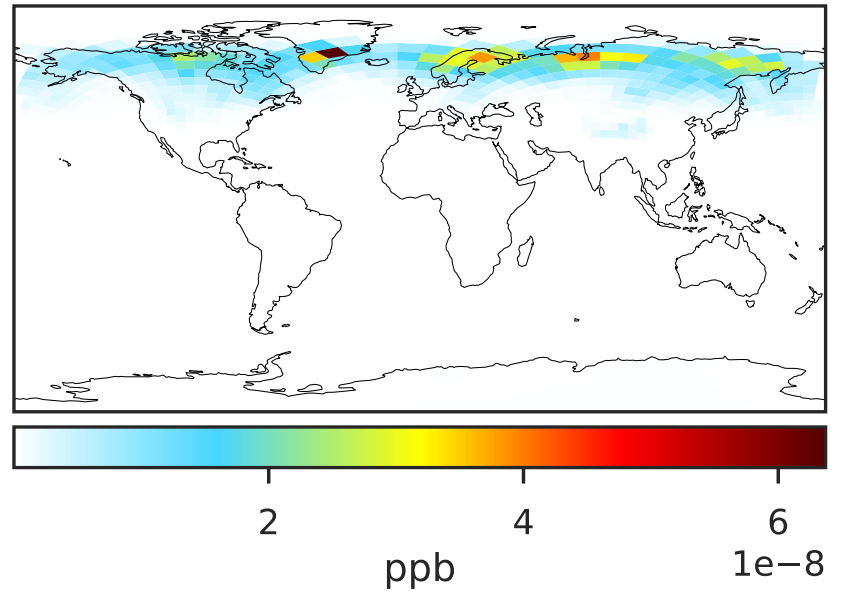
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_Cl2O2 (Jan2019)

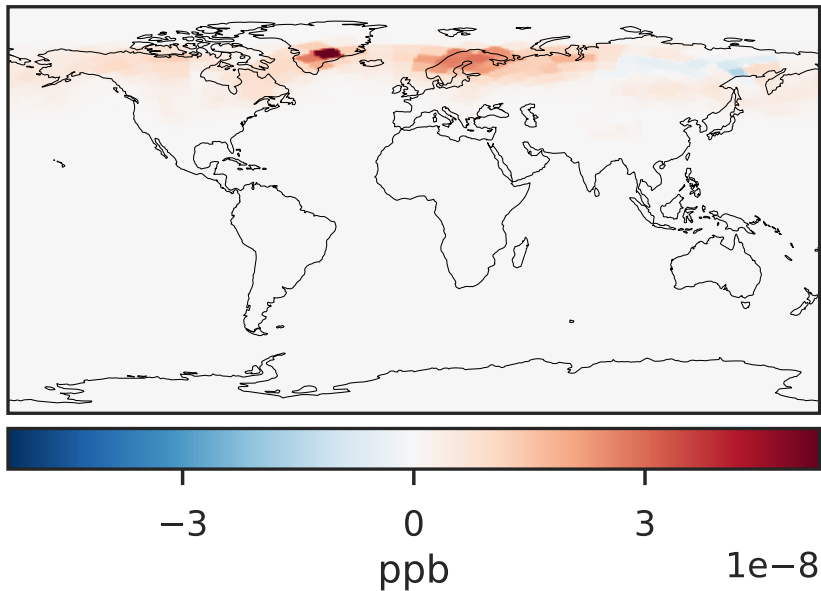
GCHP\_14.0.0 (Ref)  
c24



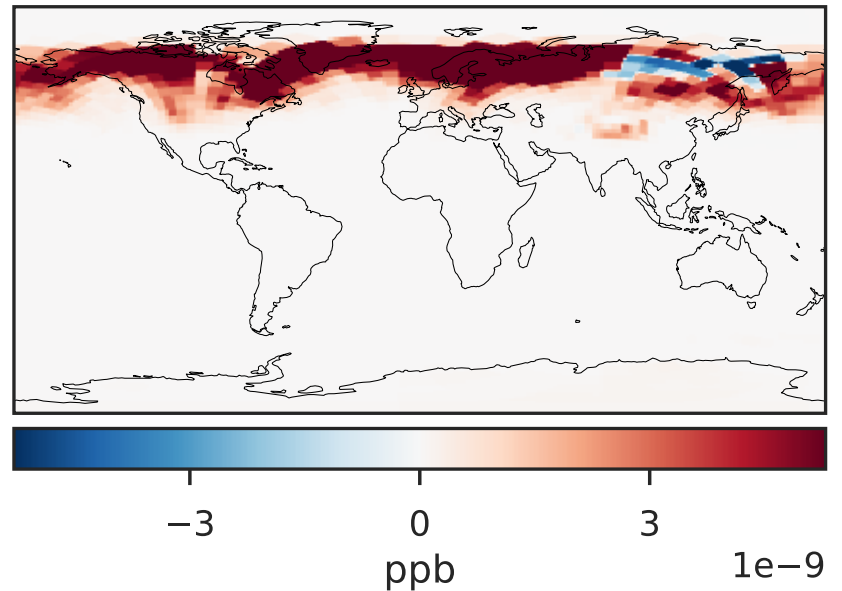
GCHP\_14.2.0 (Dev)  
c24



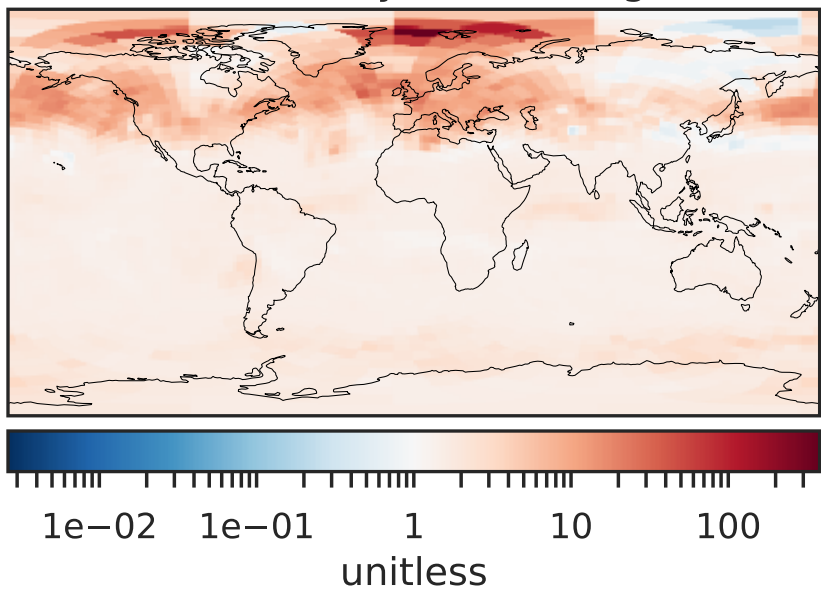
Difference (1x1.25)  
Dev - Ref, Dynamic Range



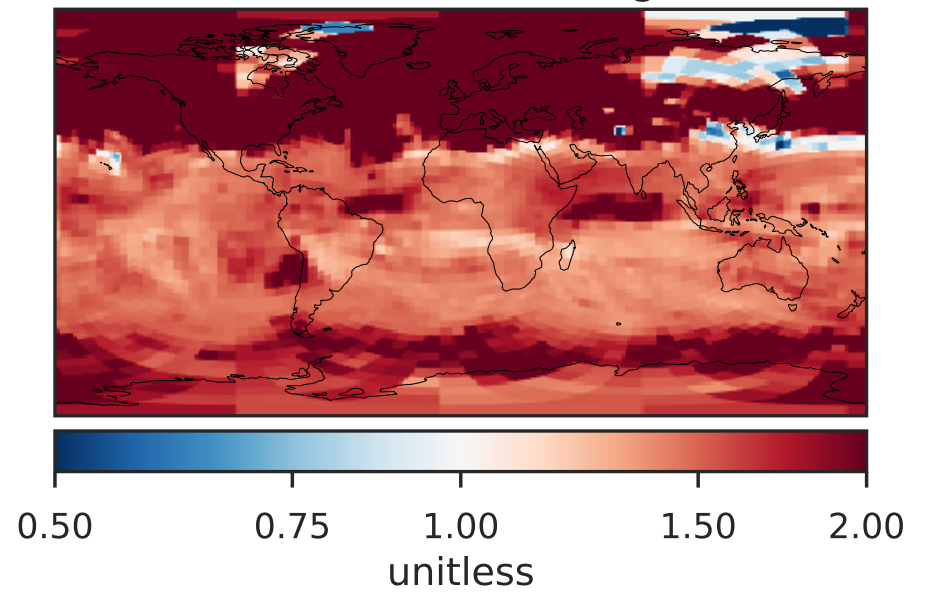
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

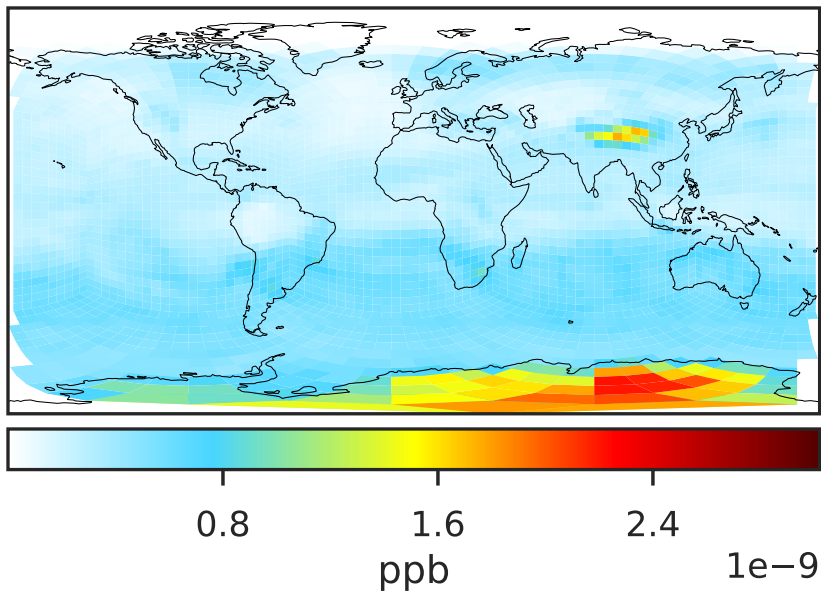


Ratio (1x1.25)  
Dev/Ref, Fixed Range

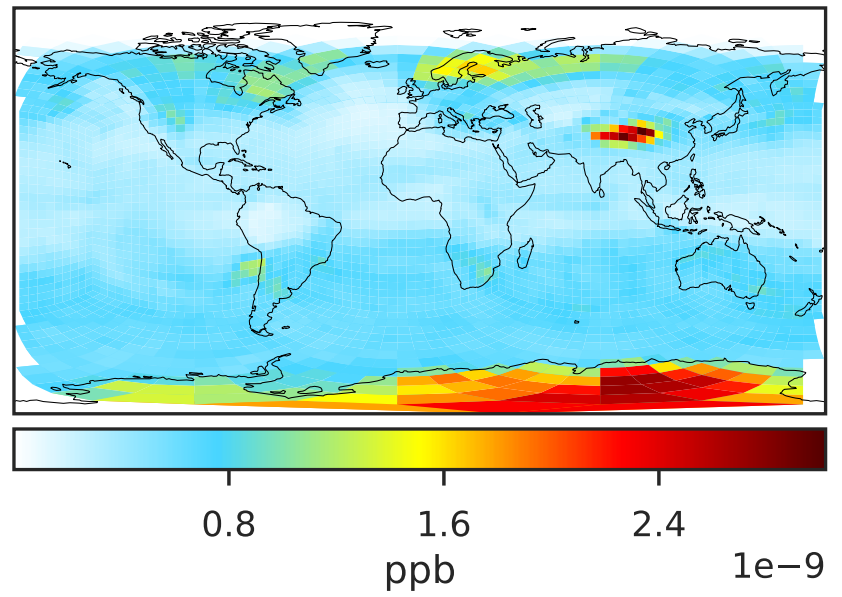


# SpeciesConcVV\_C100 (Jan2019)

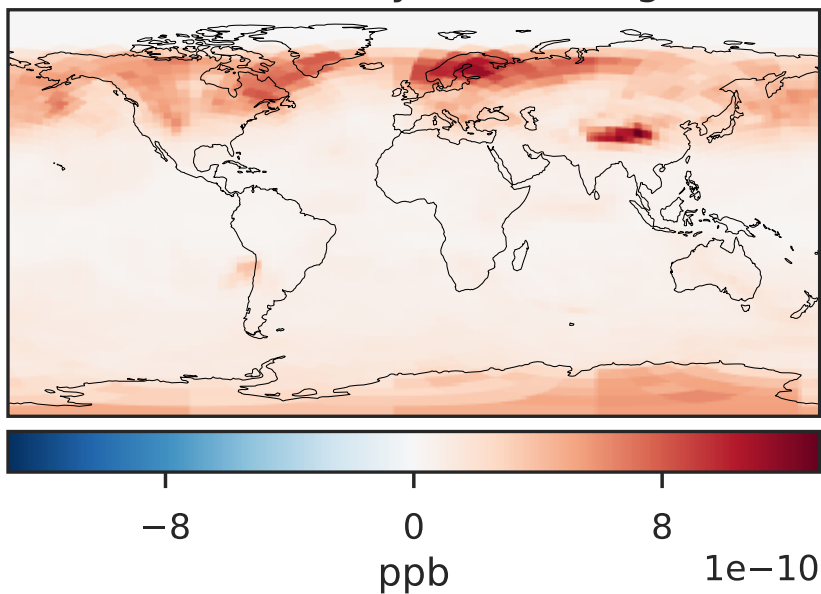
GCHP\_14.0.0 (Ref)  
c24



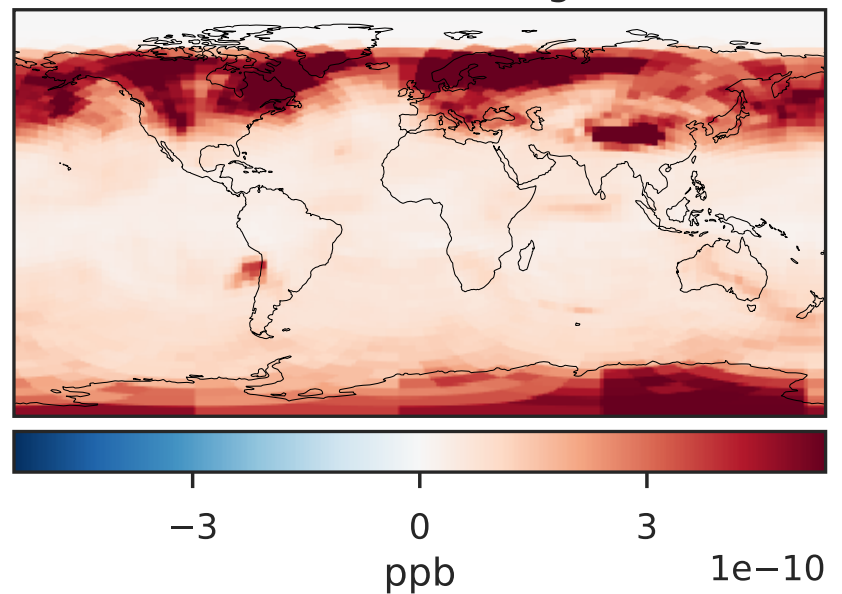
GCHP\_14.2.0 (Dev)  
c24



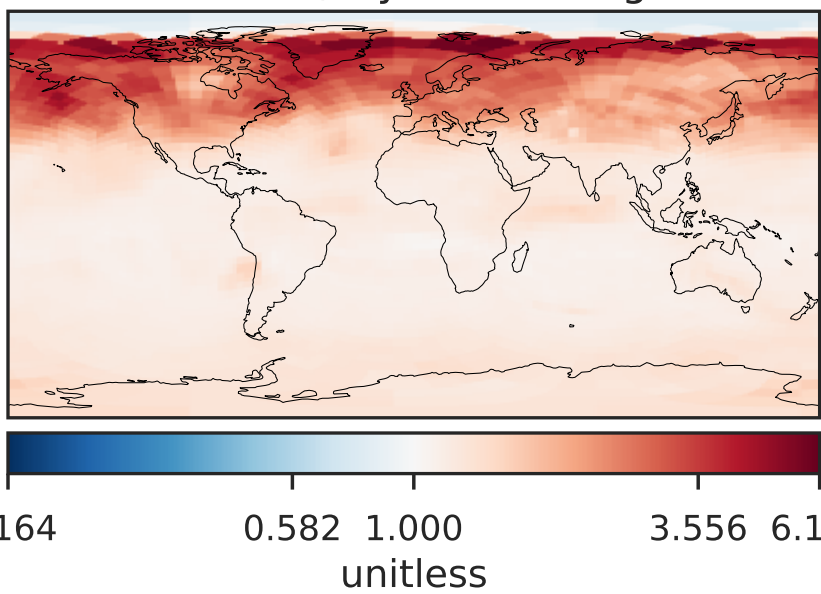
Difference (1x1.25)  
Dev - Ref, Dynamic Range



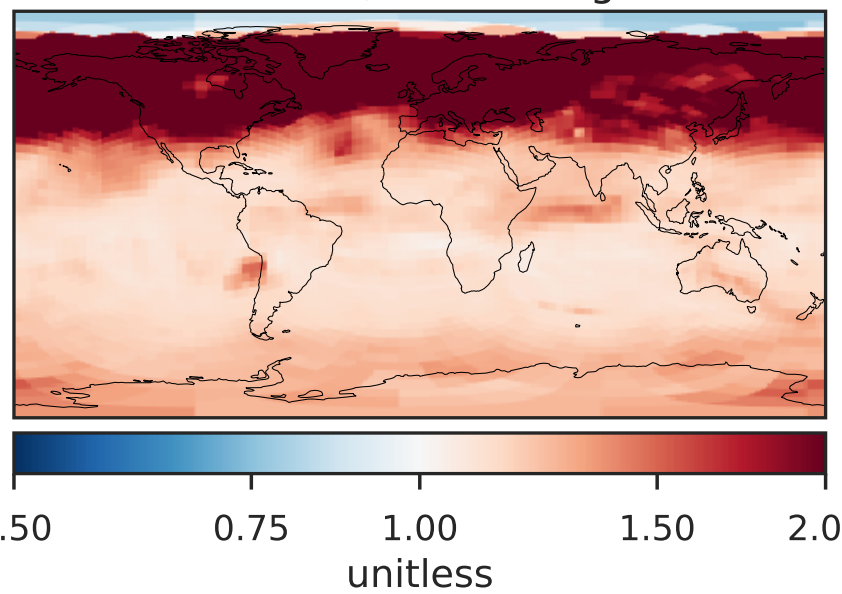
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

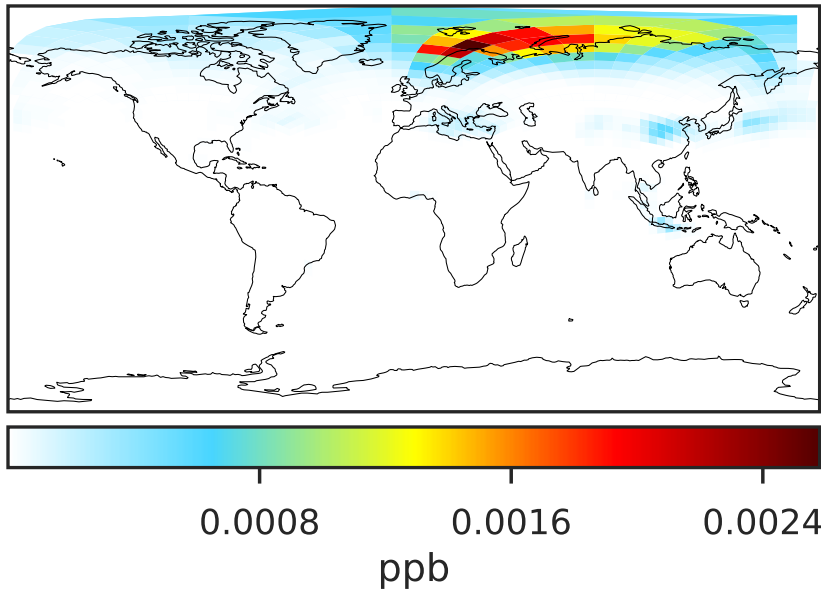


Ratio (1x1.25)  
Dev/Ref, Fixed Range

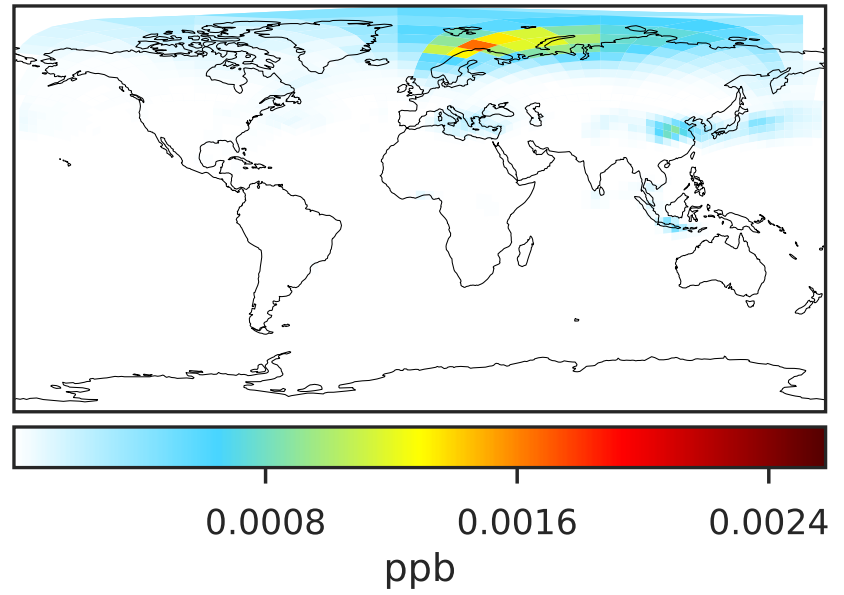


# SpeciesConcVV\_CLNO2 (Jan2019)

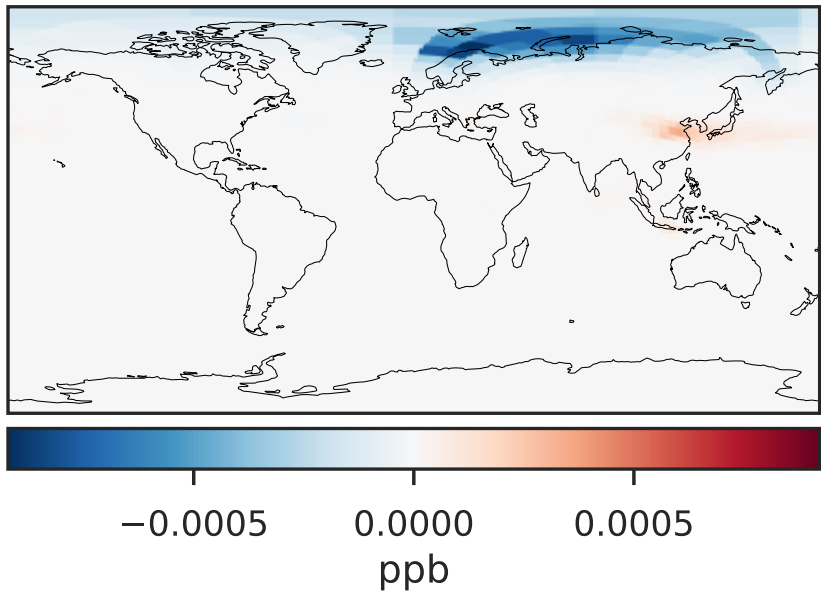
GCHP\_14.0.0 (Ref)  
c24



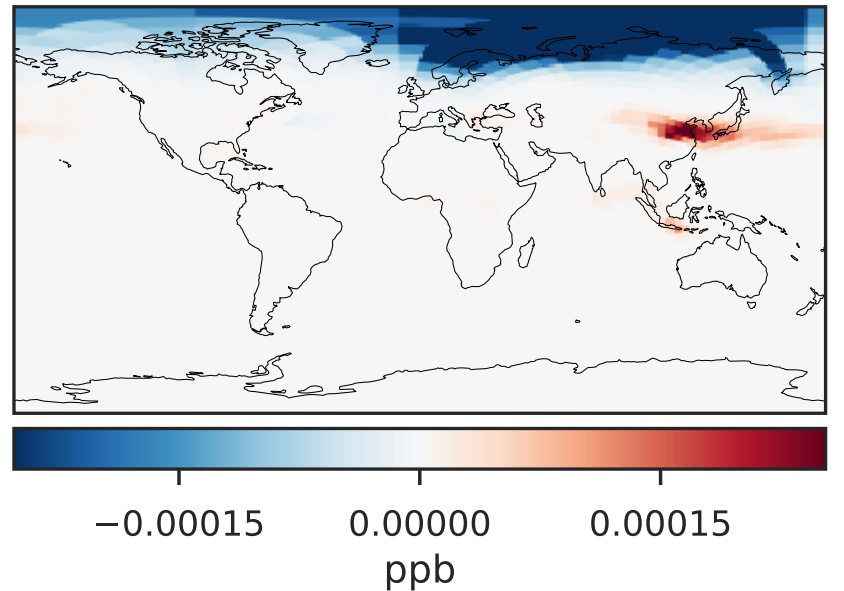
GCHP\_14.2.0 (Dev)  
c24



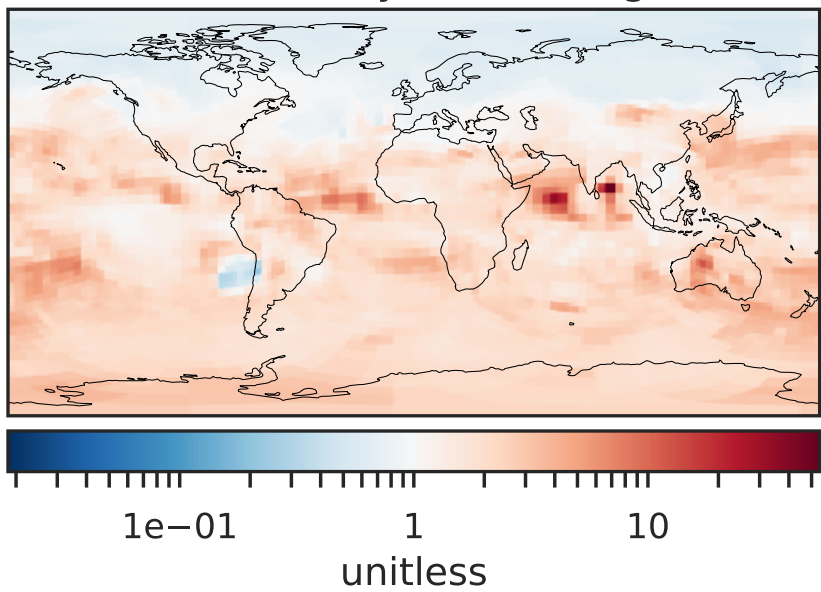
Difference (1x1.25)  
Dev - Ref, Dynamic Range



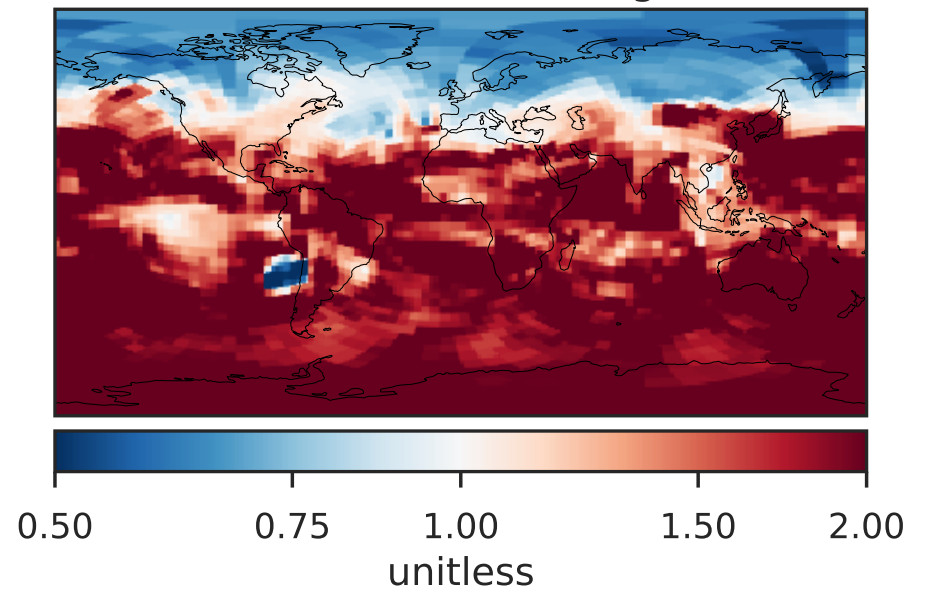
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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



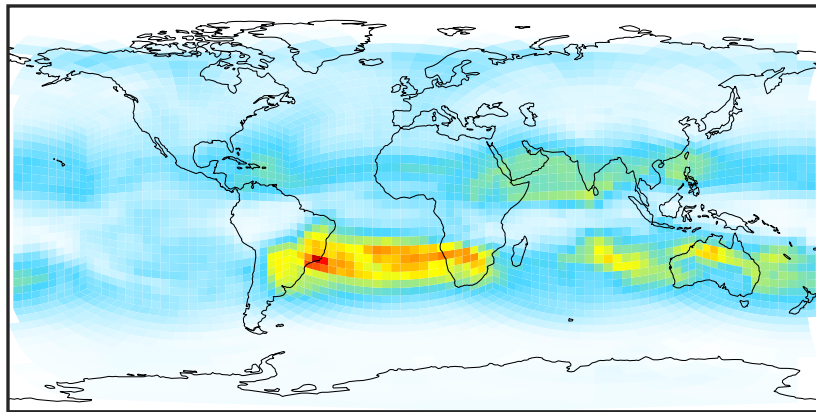
Ratio (1x1.25)  
Dev/Ref, Fixed Range





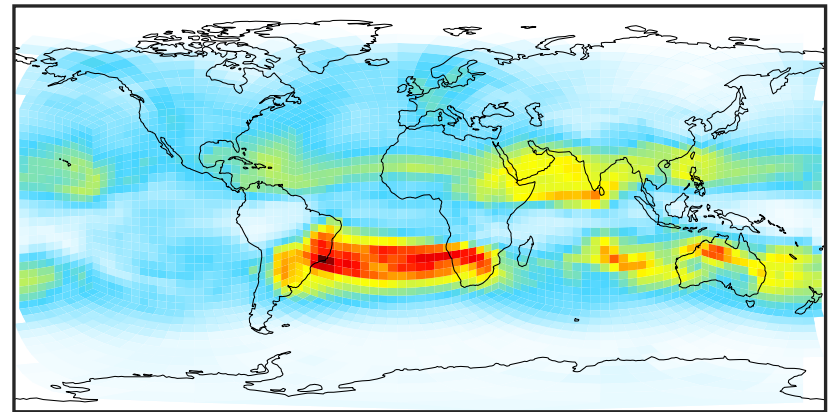
# SpeciesConcVV\_CLNO3 (Jan2019)

GCHP\_14.0.0 (Ref)  
c24



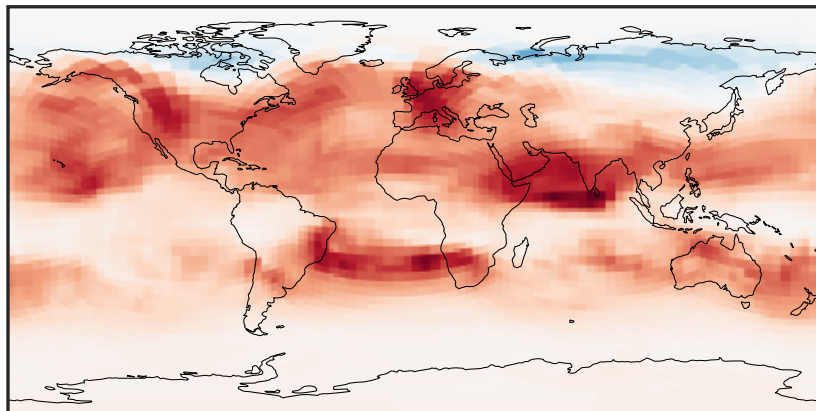
0.00025 0.00050 0.00075  
ppb

GCHP\_14.2.0 (Dev)  
c24



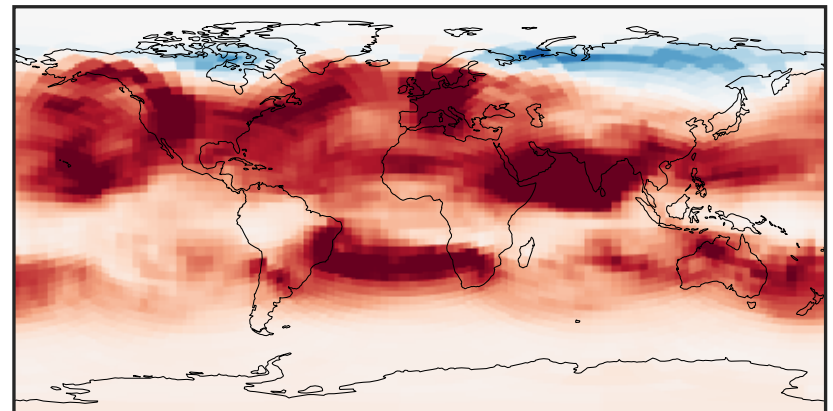
0.00025 0.00050 0.00075  
ppb

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



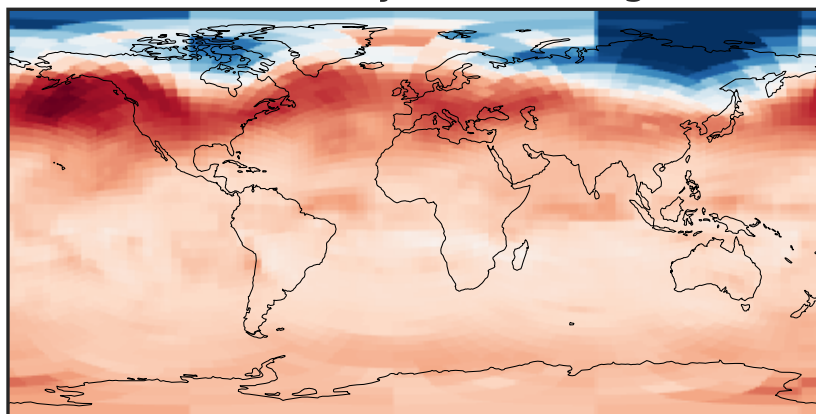
-0.0001 0.0000 0.0001  
ppb

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



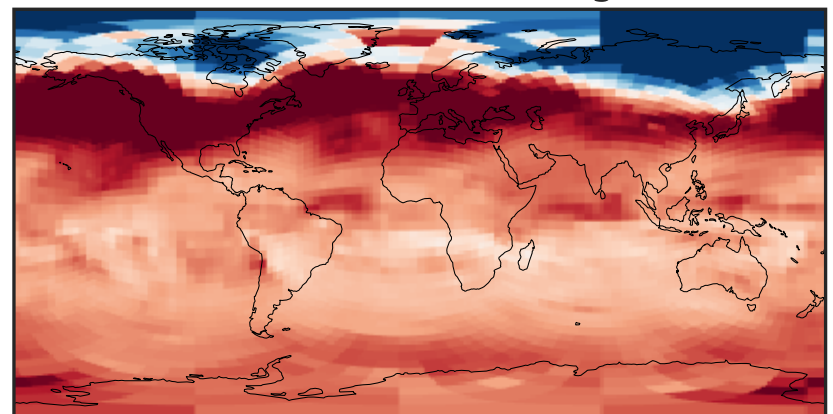
-8 0 8  
ppb 1e-5

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



0.275 0.638 1.000 2.318 3.635  
unitless

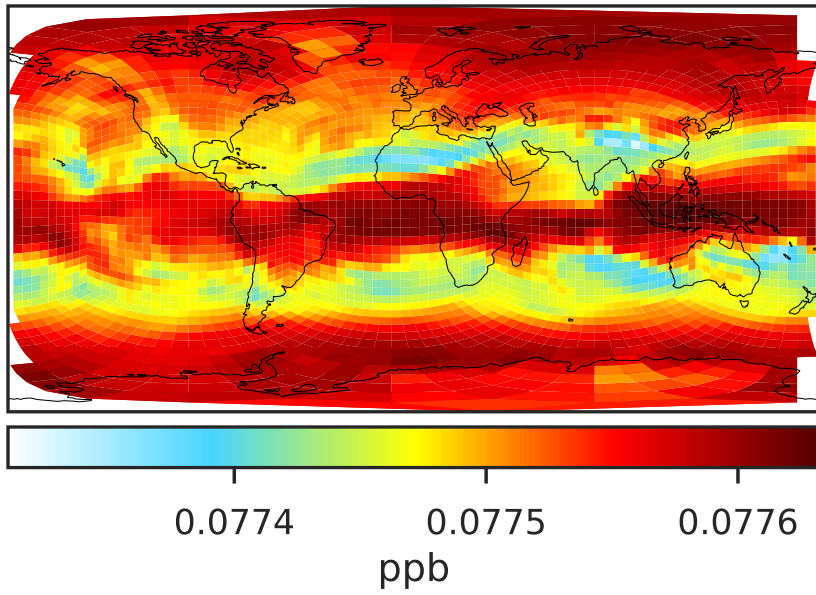
Ratio (1x1.25)  
Dev/Ref, Fixed Range



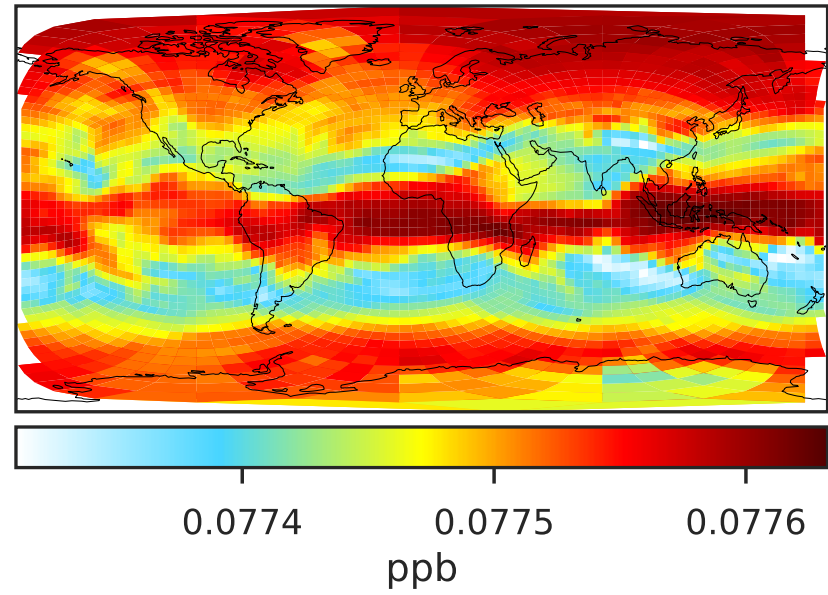
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_CCl4 (Jan2019)

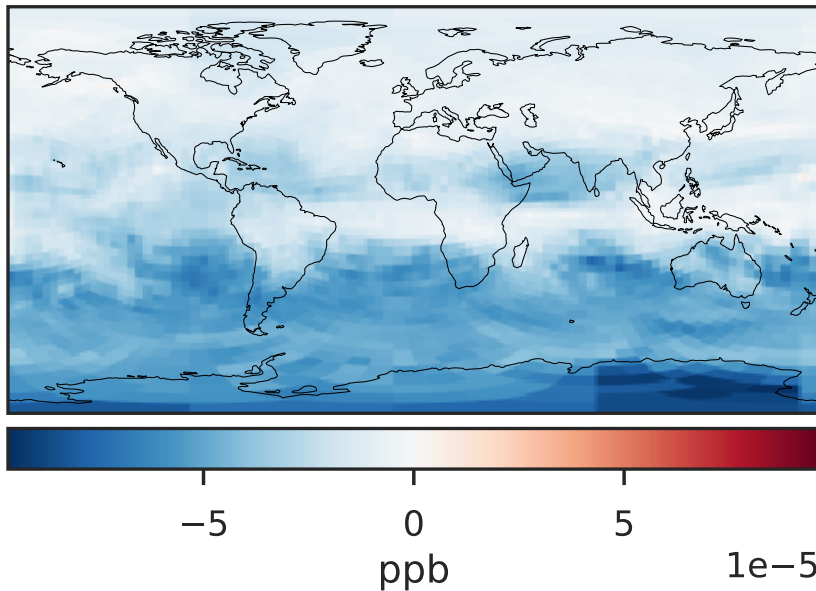
GCHP\_14.0.0 (Ref)  
c24



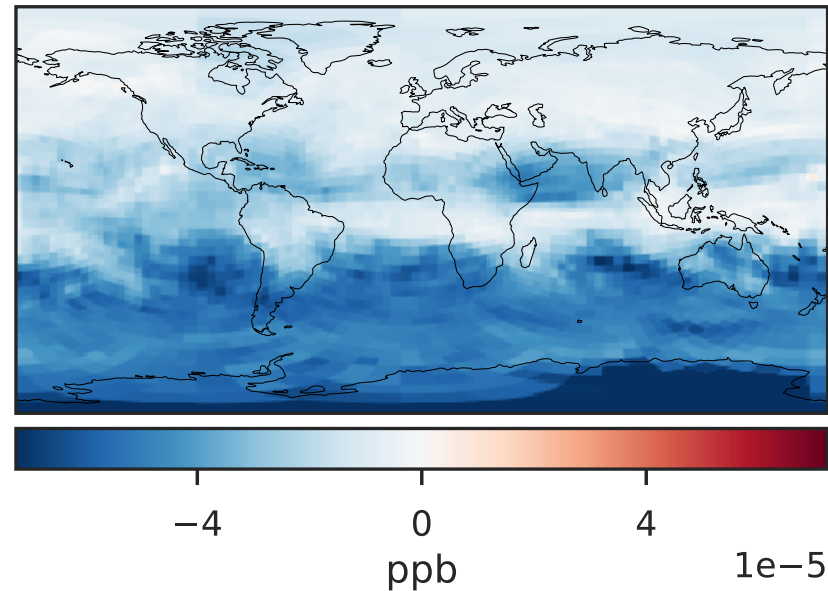
GCHP\_14.2.0 (Dev)  
c24



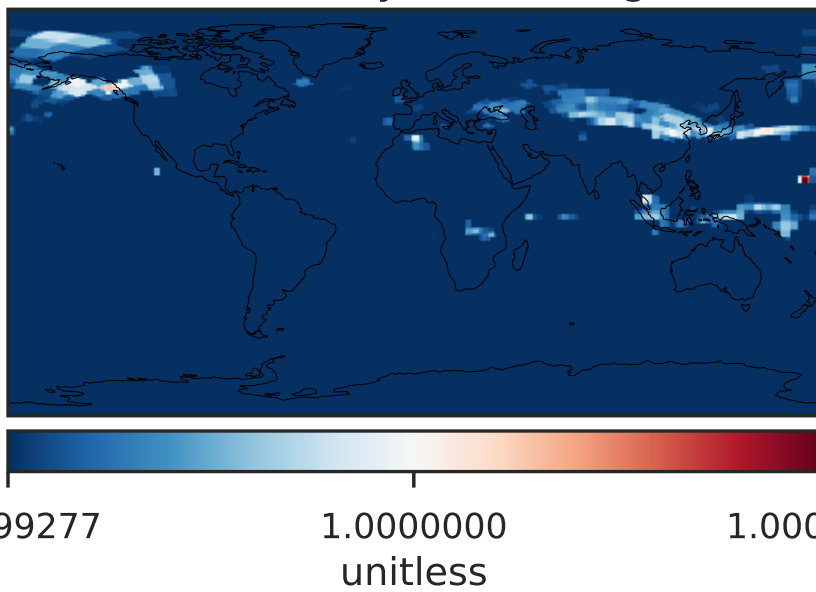
Difference (1x1.25)  
Dev - Ref, Dynamic Range



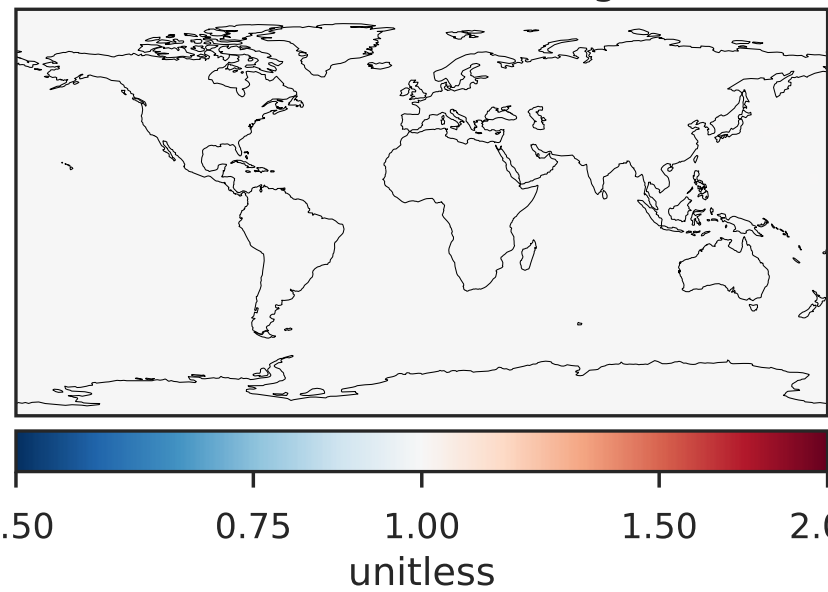
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

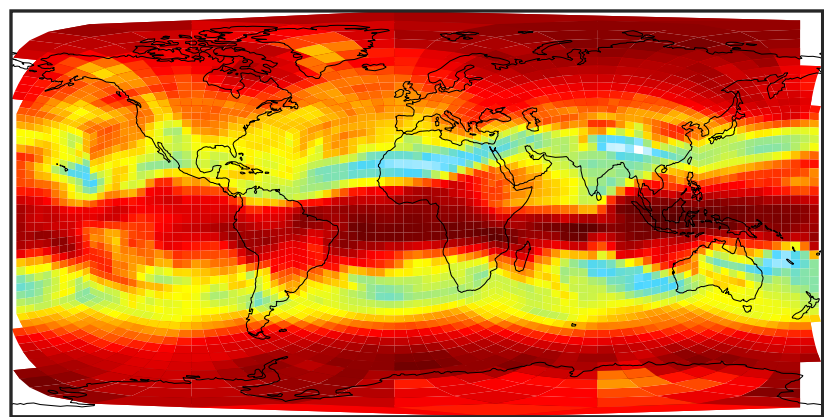


Ratio (1x1.25)  
Dev/Ref, Fixed Range



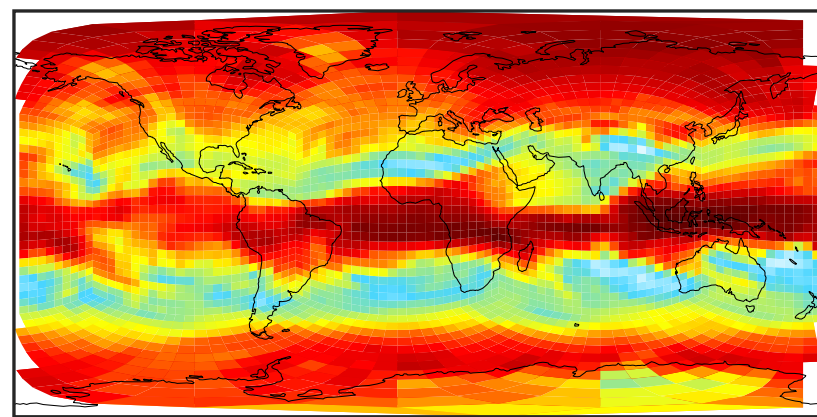
# SpeciesConcVV\_CFCs (Jan2019)

GCHP\_14.0.0 (Ref)  
c24



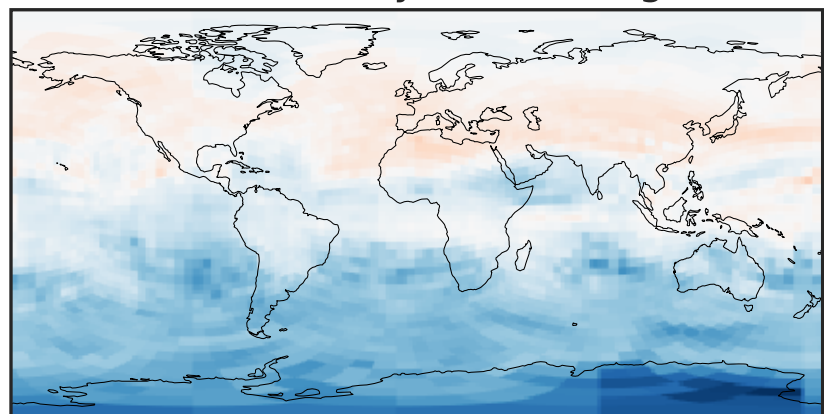
0.8195 0.8200 0.8205 0.8210  
ppb

GCHP\_14.2.0 (Dev)  
c24



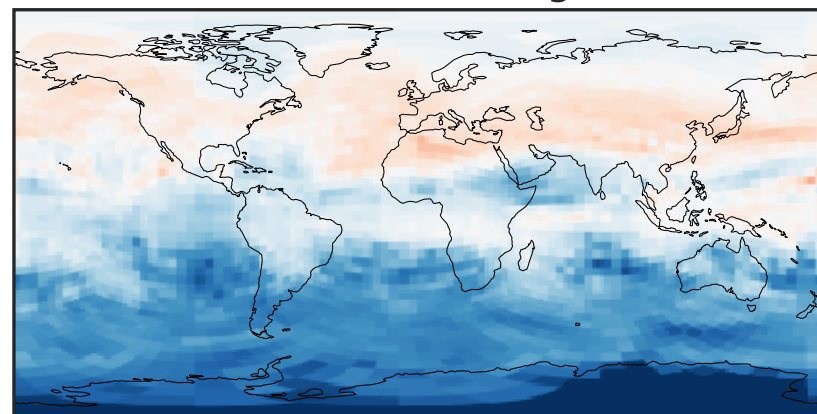
0.8195 0.8200 0.8205 0.8210  
ppb

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



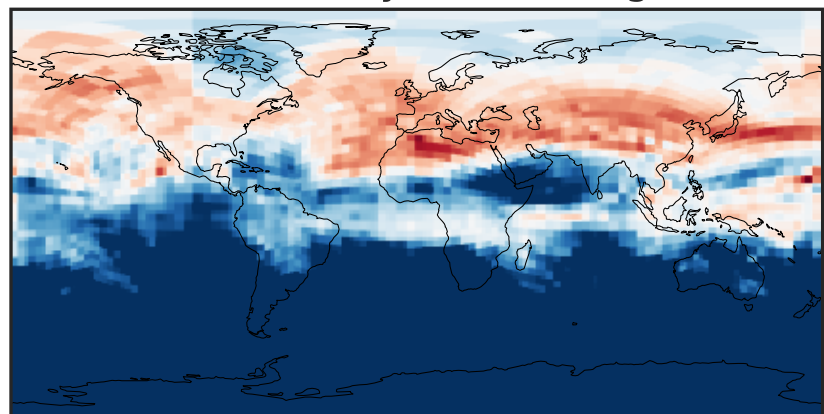
-0.0003 0.0000 0.0003  
ppb

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



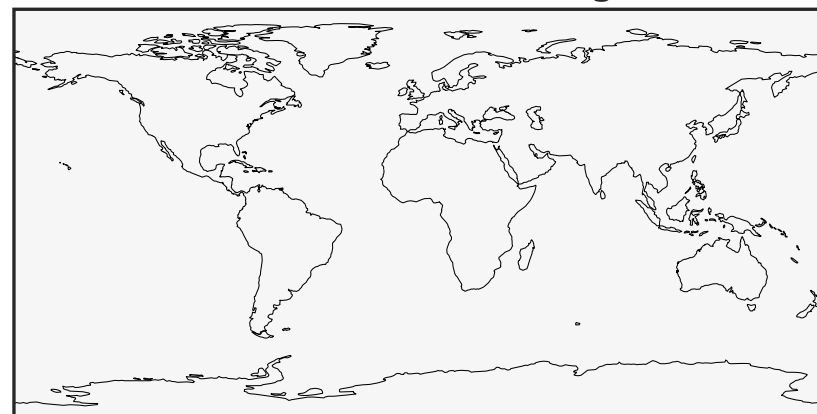
-0.0002 0.0000 0.0002  
ppb

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



0.9998388 1.000000 1.0001612  
unitless

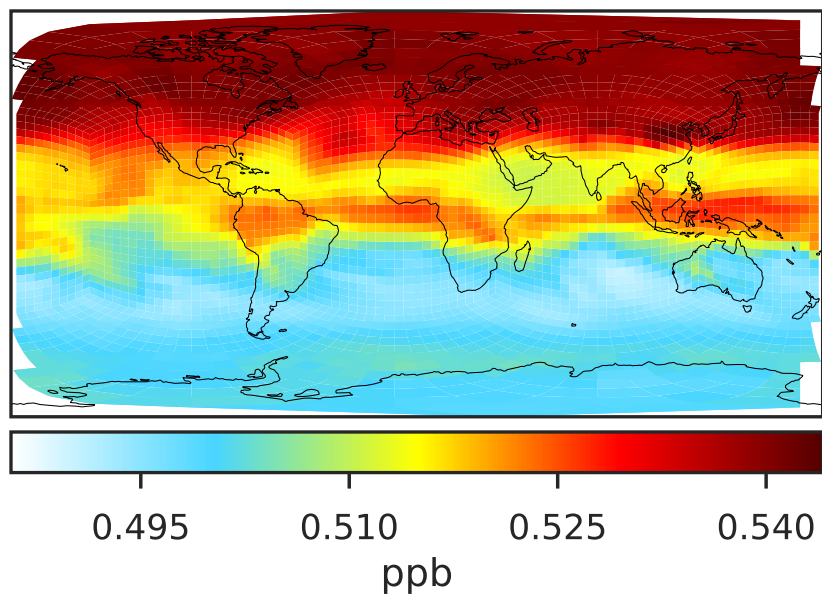
Ratio (1x1.25)  
Dev/Ref, Fixed Range



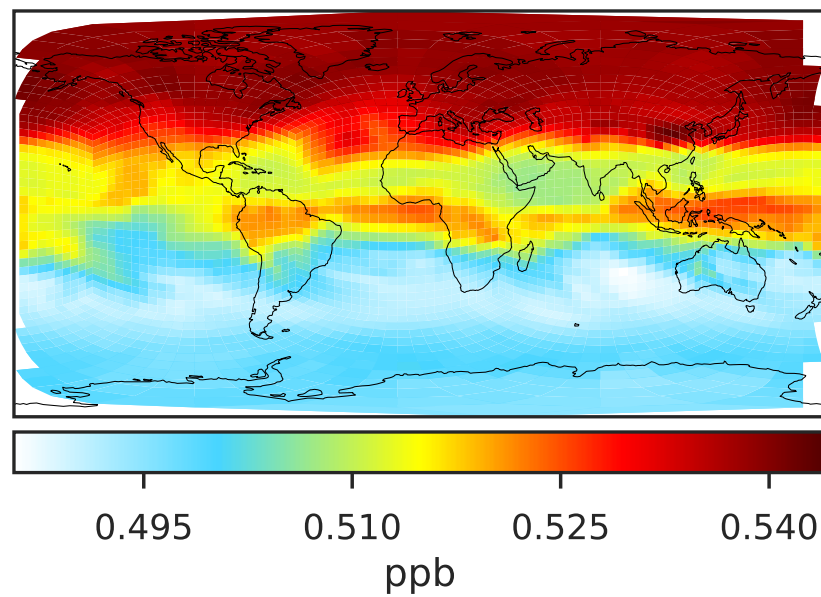
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_CH3Cl (Jan2019)

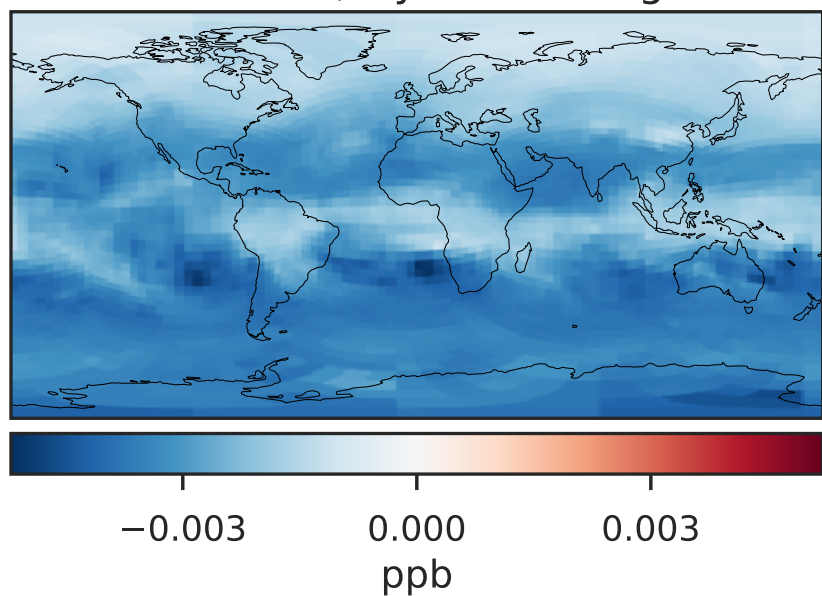
GCHP\_14.0.0 (Ref)  
c24



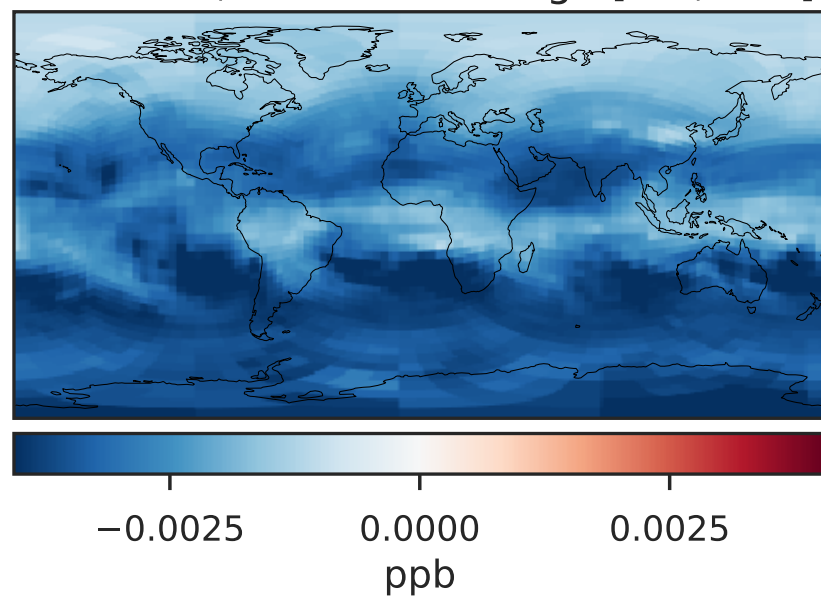
GCHP\_14.2.0 (Dev)  
c24



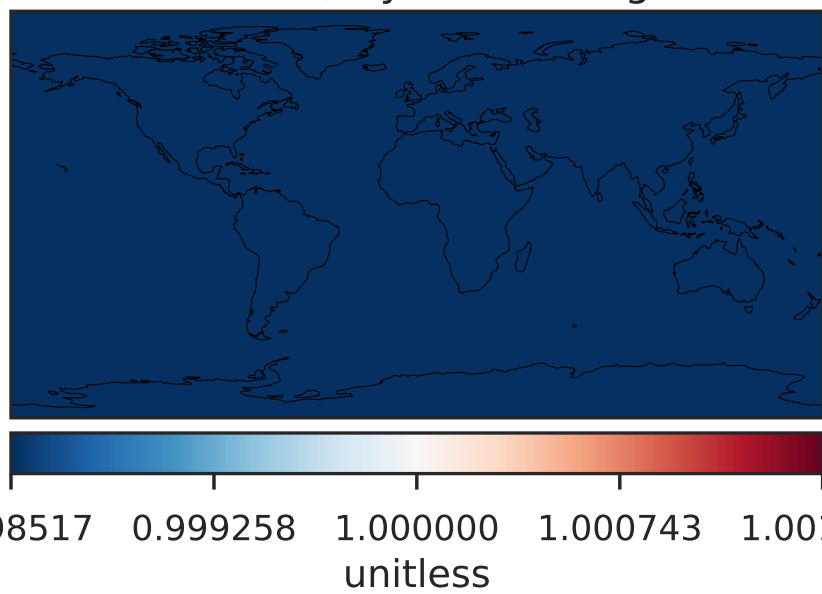
Difference (1x1.25)  
Dev - Ref, Dynamic Range



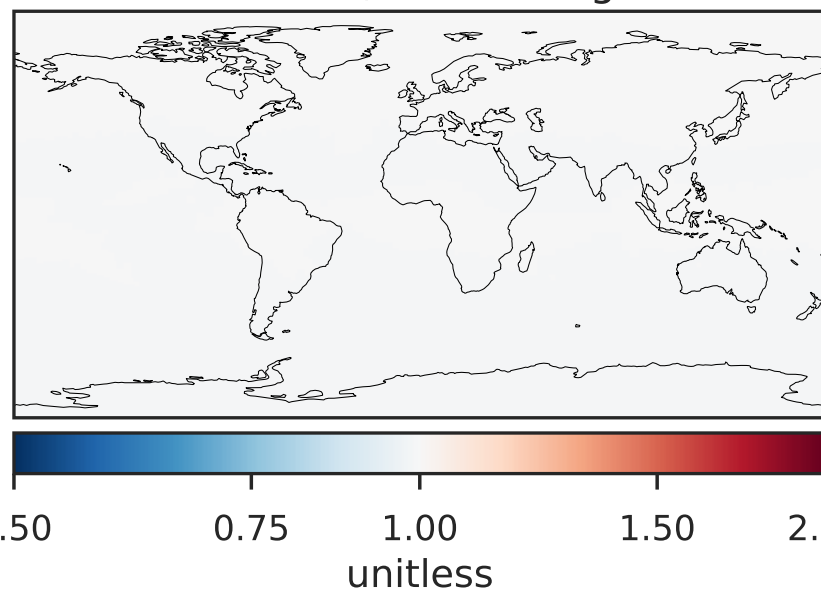
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

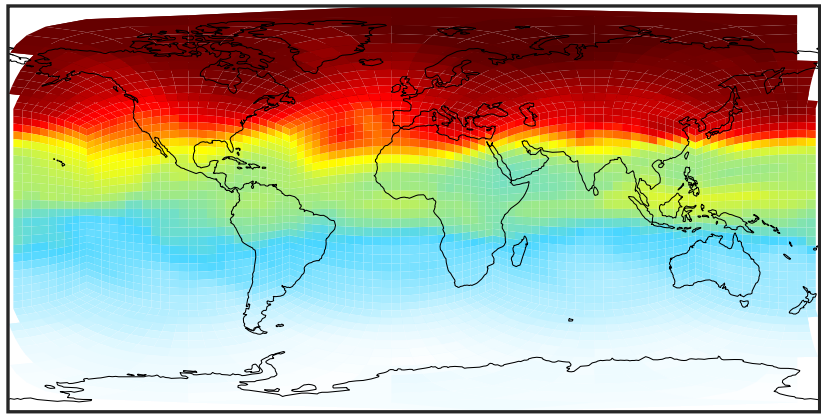


Ratio (1x1.25)  
Dev/Ref, Fixed Range



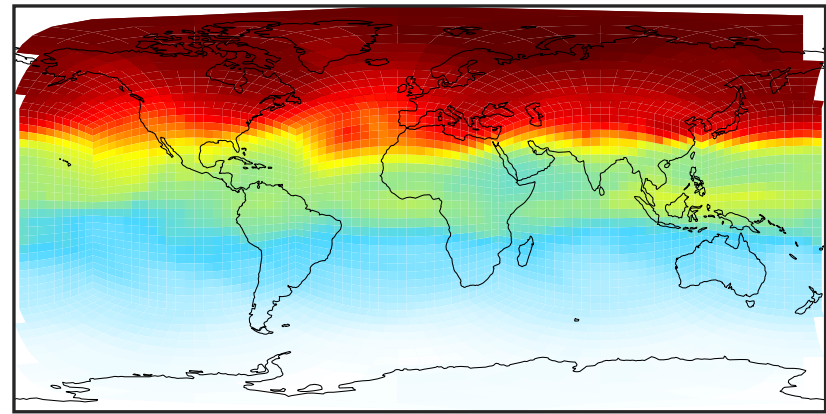
# SpeciesConcVV\_CH2Cl2 (Jan2019)

GCHP\_14.0.0 (Ref)  
c24



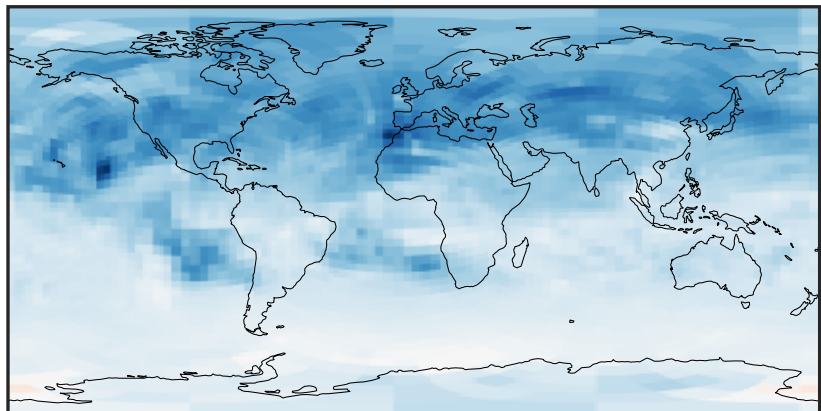
0.015 0.030 0.045 0.060  
ppb

GCHP\_14.2.0 (Dev)  
c24



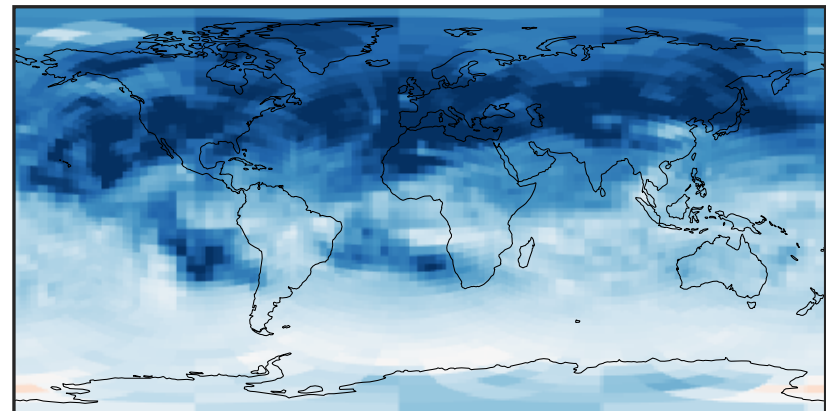
0.015 0.030 0.045 0.060  
ppb

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



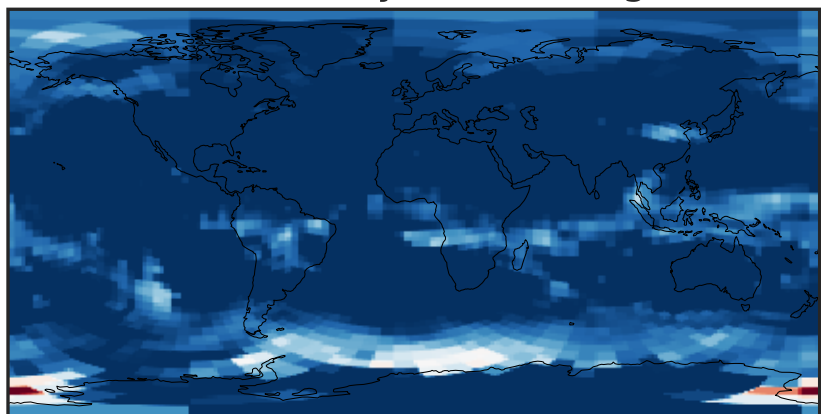
-0.0006 0.0000 0.0006  
ppb

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



-0.0004 0.0000 0.0004  
ppb

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



0.98940 0.99470 1.00000 1.00536 1.01071  
unitless

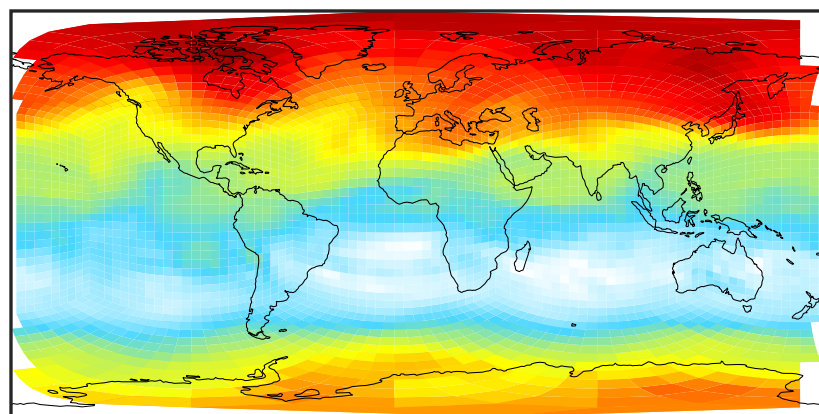
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

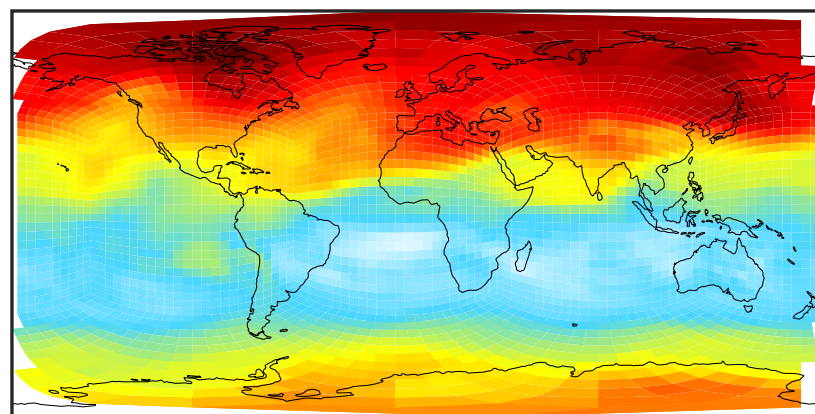
# SpeciesConcVV\_CH3CCl3 (Jan2019)

GCHP\_14.0.0 (Ref)  
c24



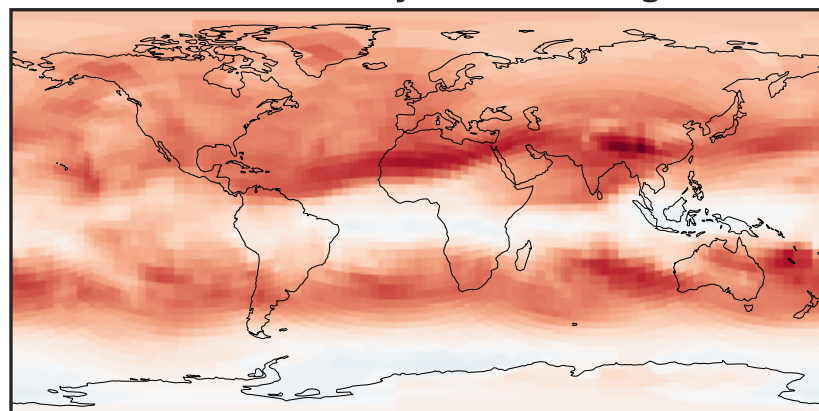
0.001496 0.001504 0.001512  
ppb

GCHP\_14.2.0 (Dev)  
c24



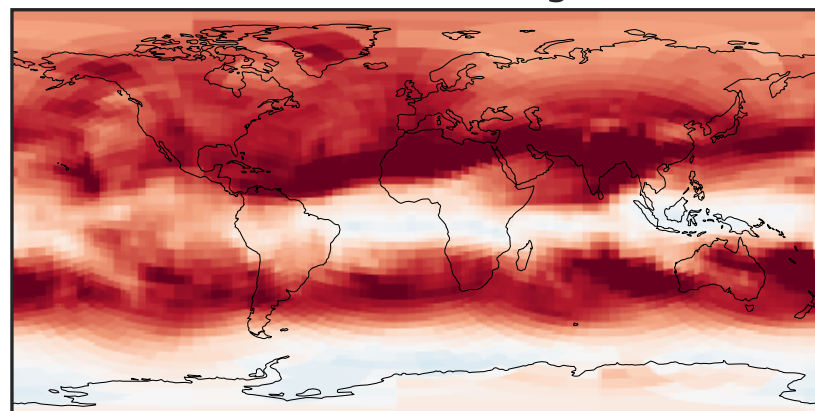
0.001496 0.001504 0.001512  
ppb

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



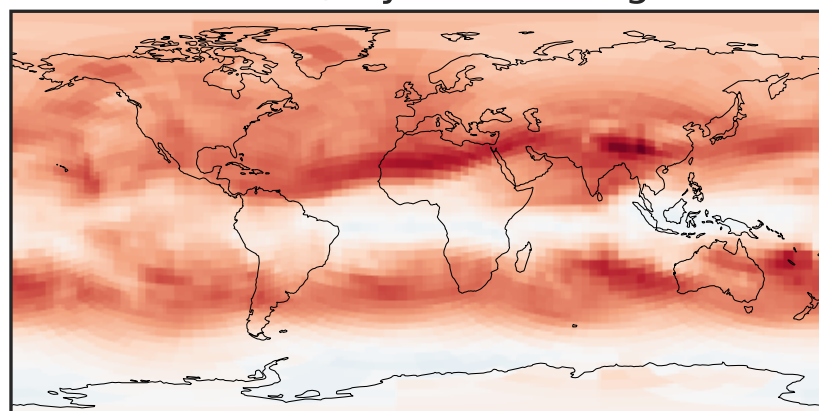
-3 0 3  
ppb  $1e-6$

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



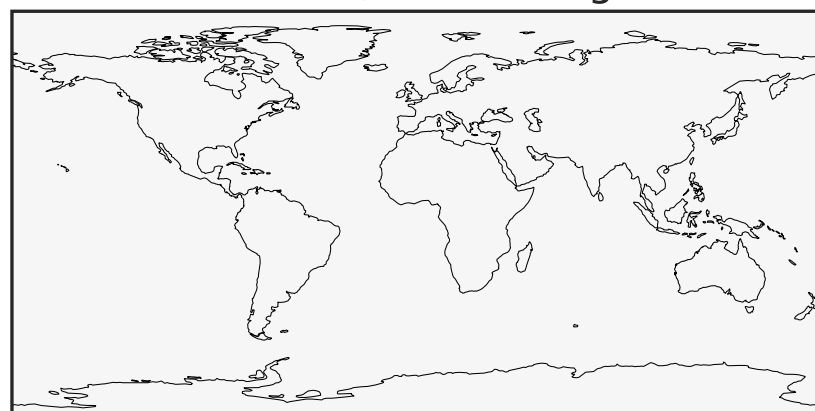
-2 0 2  
ppb  $1e-6$

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



0.996503 0.998252 1.000000 1.001755 1.003509  
unitless

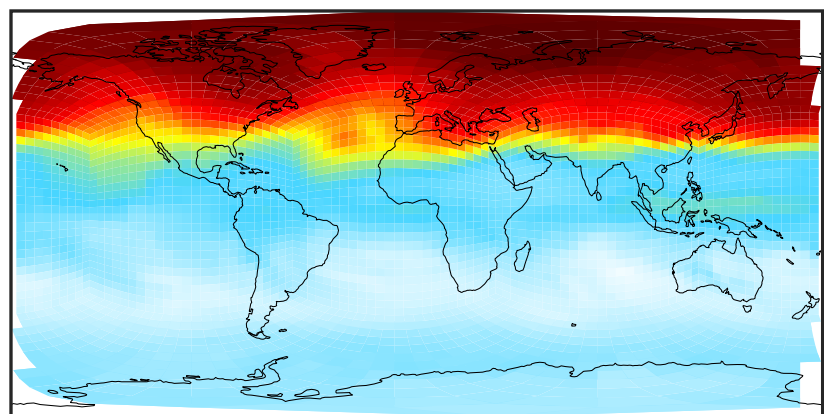
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

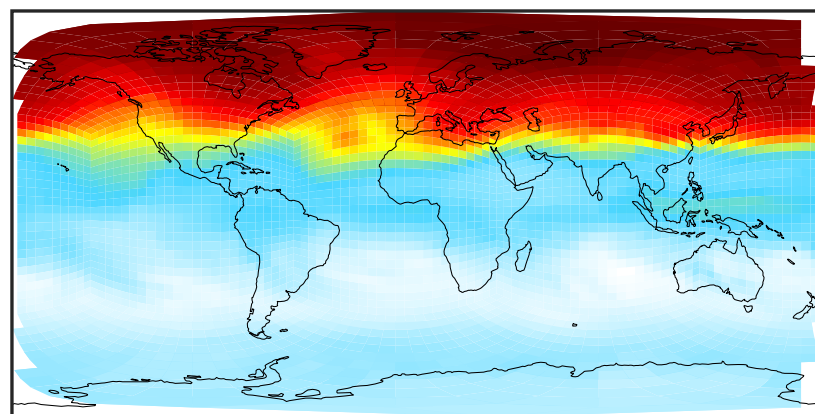
# SpeciesConcVV\_CHCl3 (Jan2019)

GCHP\_14.0.0 (Ref)  
c24



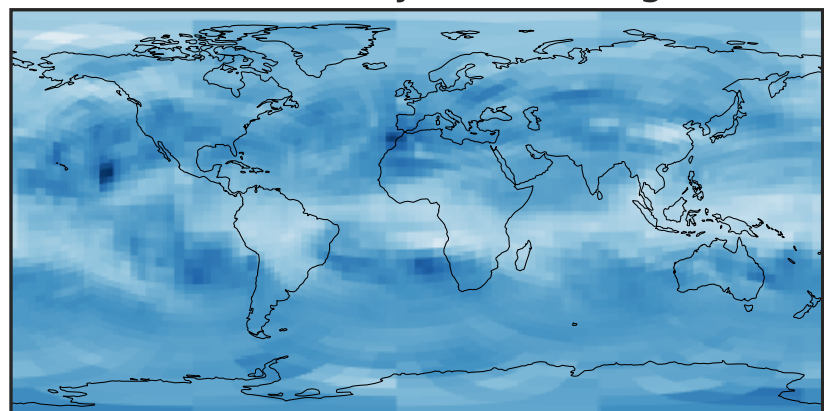
0.0075 0.0090 0.0105 0.0120  
ppb

GCHP\_14.2.0 (Dev)  
c24



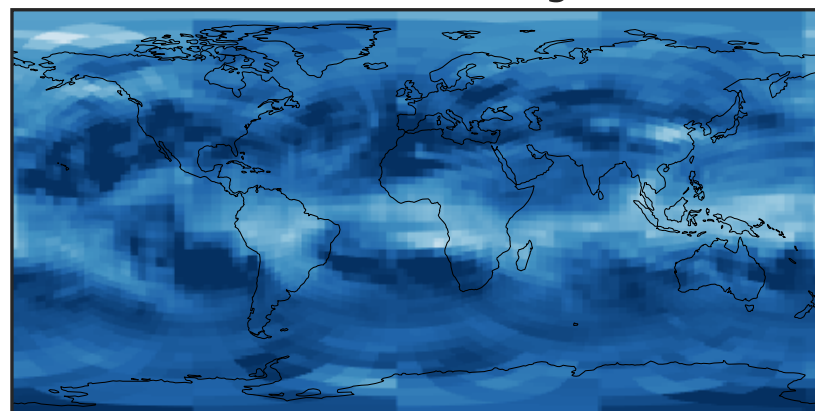
0.0075 0.0090 0.0105 0.0120  
ppb

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



-0.00015 0.00000 0.00015  
ppb

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



-8 0 8  
ppb 1e-5

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



0.997643 0.998822 1.000000 1.001181 1.002362  
unitless

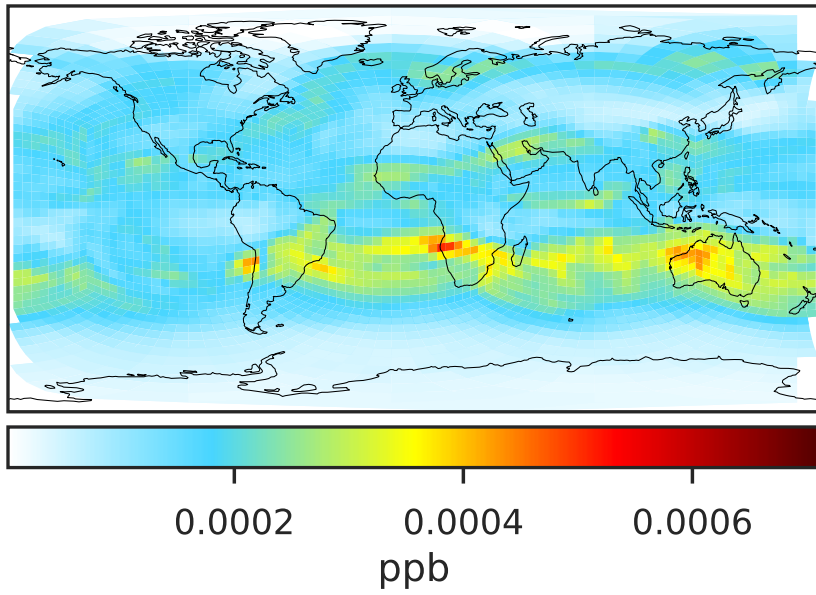
Ratio (1x1.25)  
Dev/Ref, Fixed Range



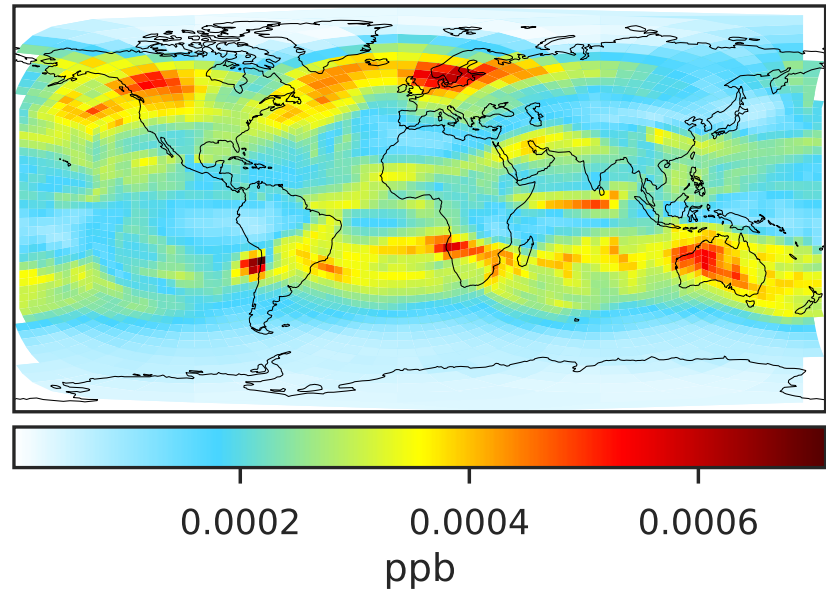
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_HOCl (Jan2019)

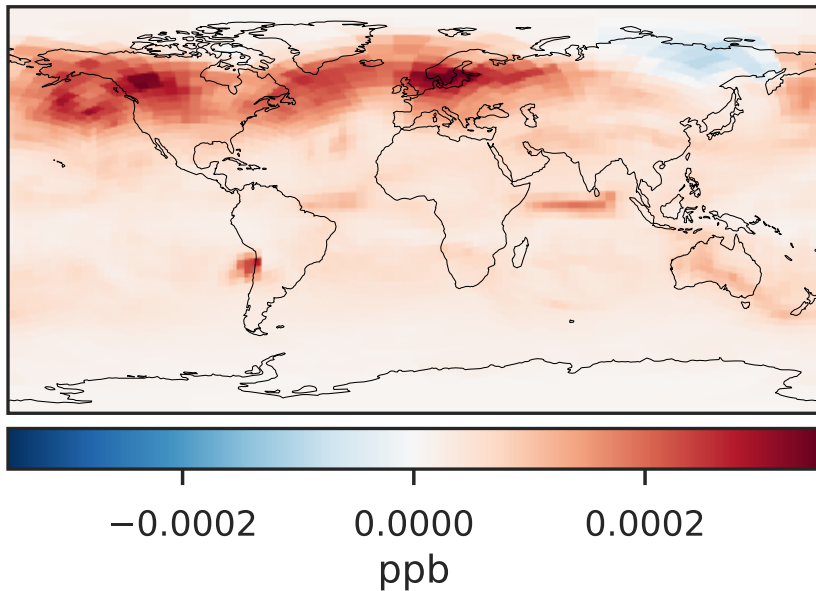
GCHP\_14.0.0 (Ref)  
c24



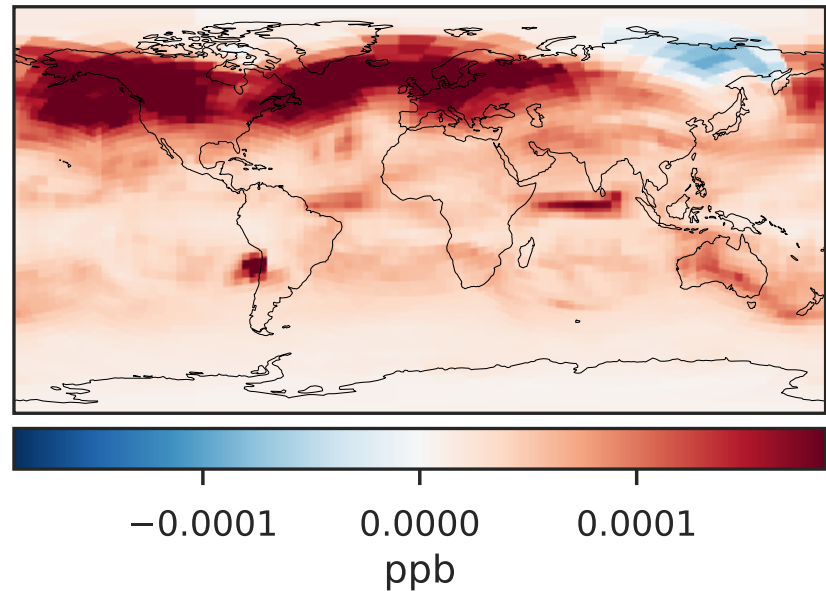
GCHP\_14.2.0 (Dev)  
c24



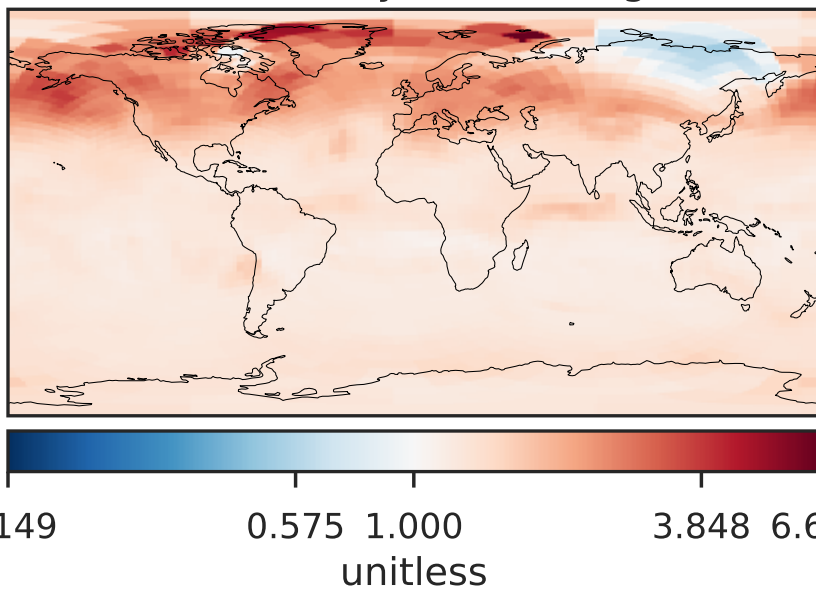
Difference (1x1.25)  
Dev - Ref, Dynamic Range



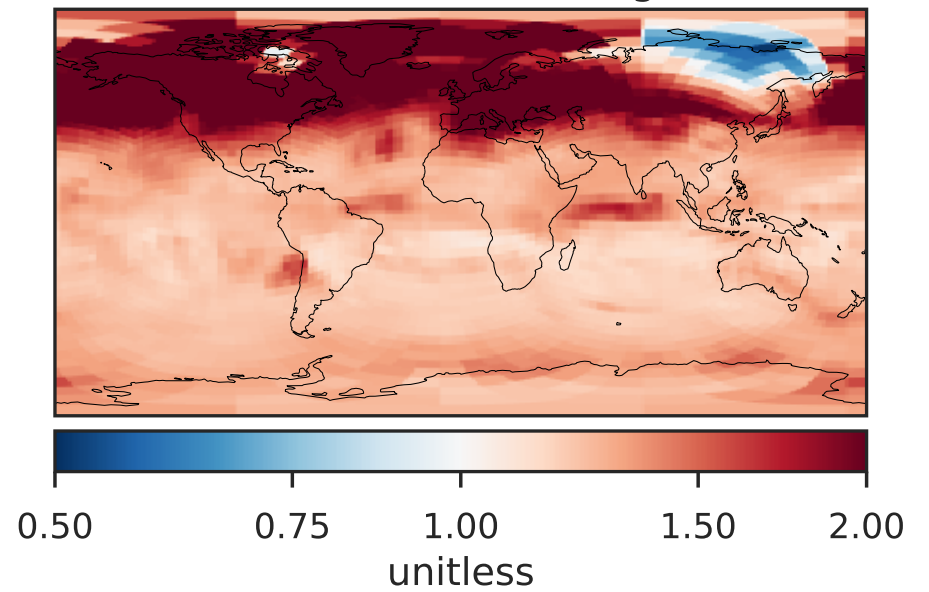
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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



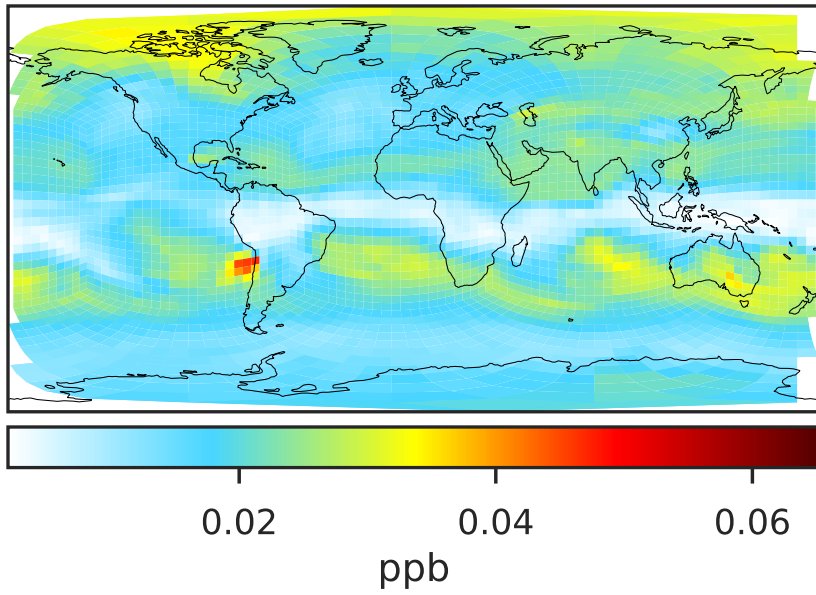
Ratio (1x1.25)  
Dev/Ref, Fixed Range



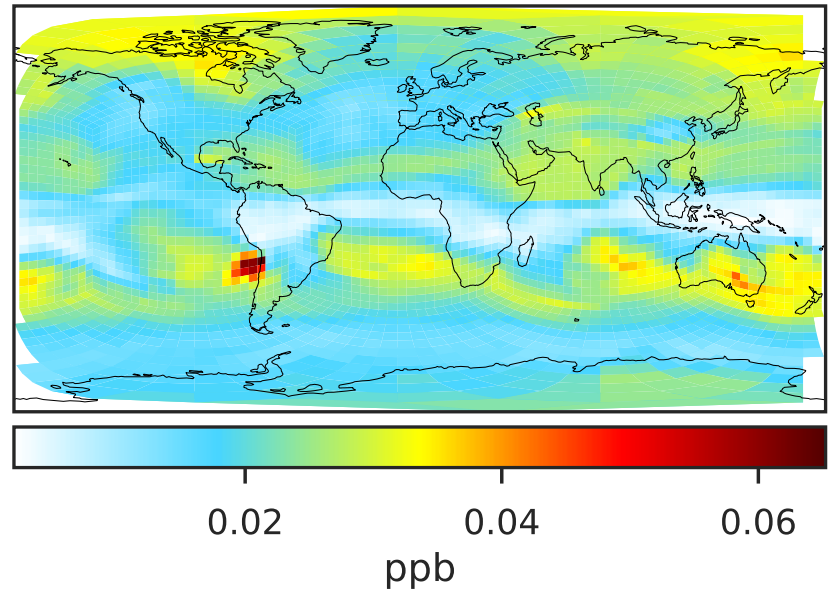


# SpeciesConcVV\_HCl (Jan2019)

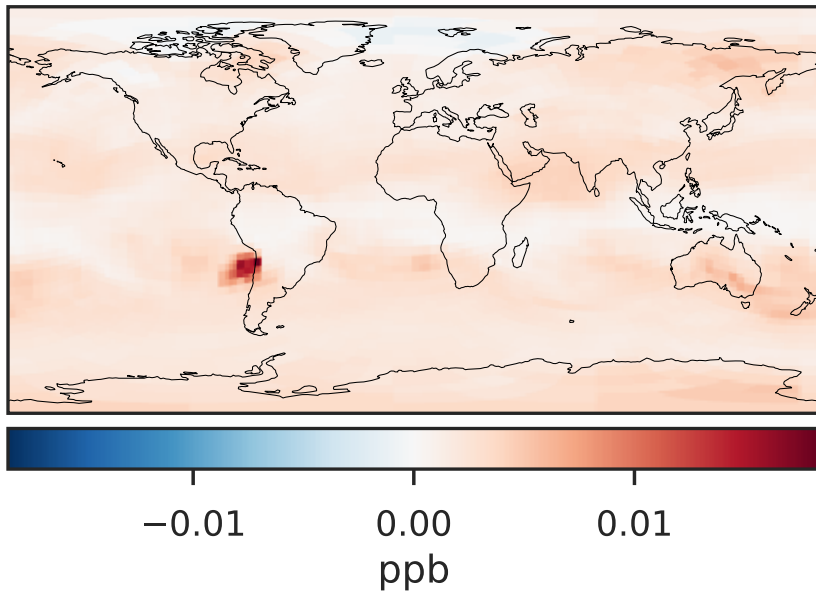
GCHP\_14.0.0 (Ref)  
c24



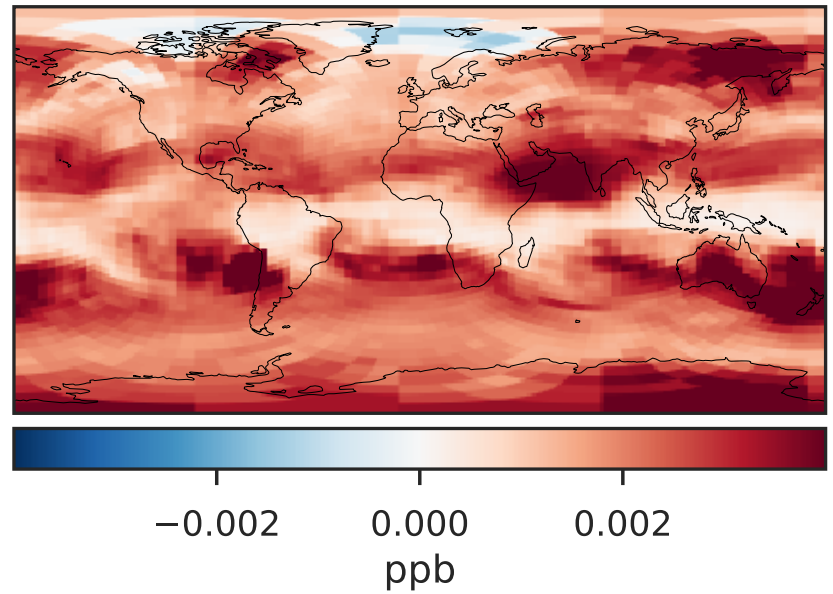
GCHP\_14.2.0 (Dev)  
c24



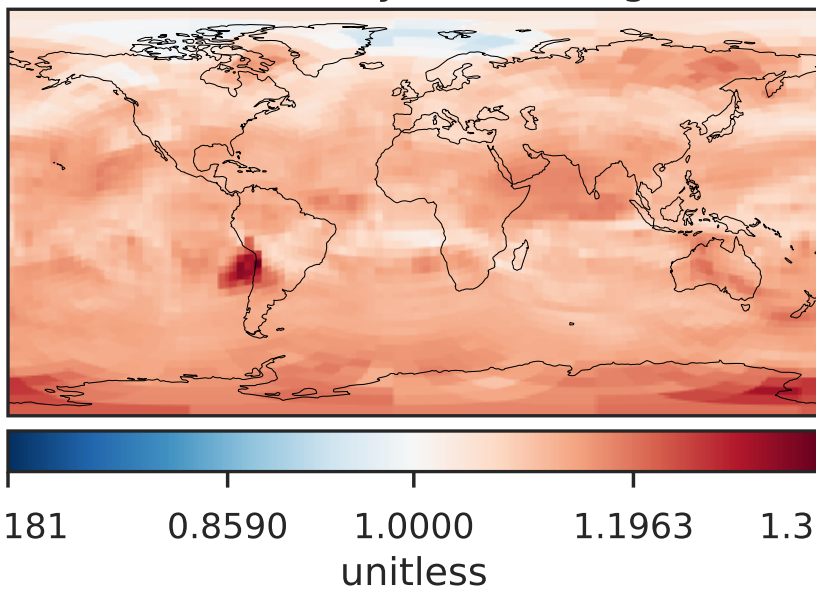
Difference (1x1.25)  
Dev - Ref, Dynamic Range



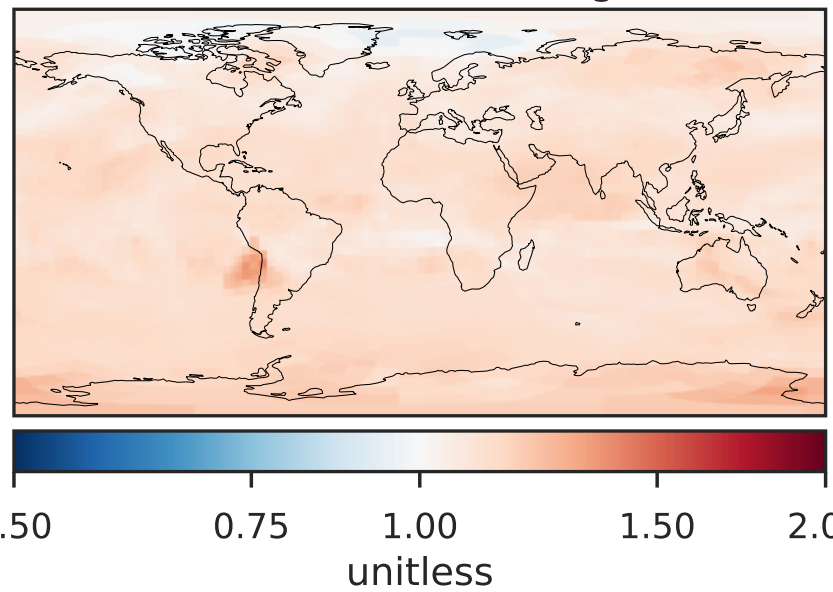
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

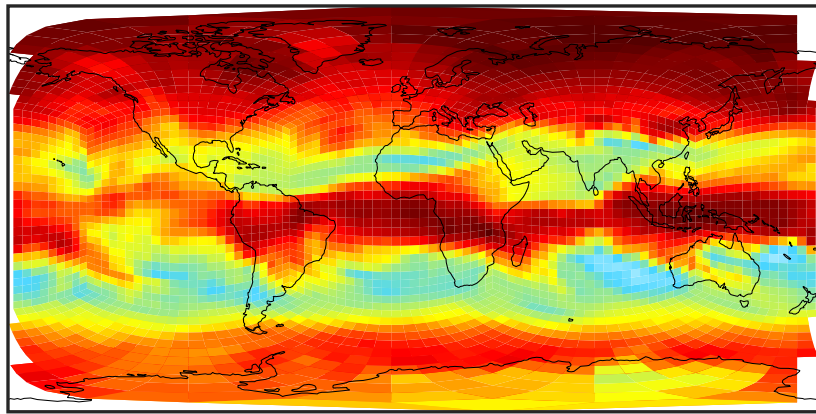


Ratio (1x1.25)  
Dev/Ref, Fixed Range



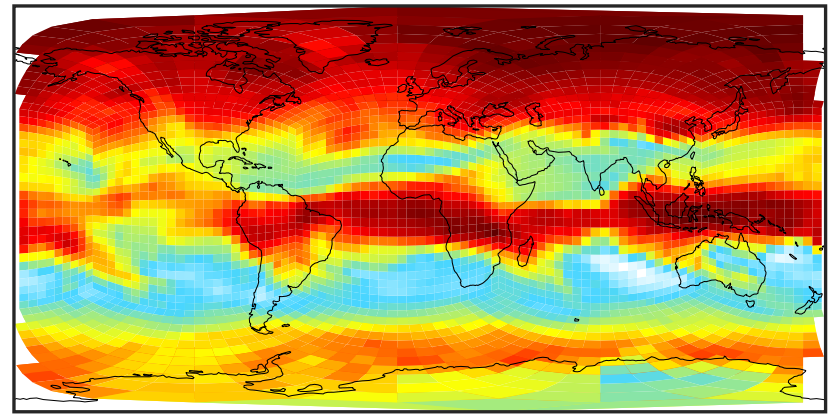
# SpeciesConcVV\_Halons (Jan2019)

GCHP\_14.0.0 (Ref)  
c24



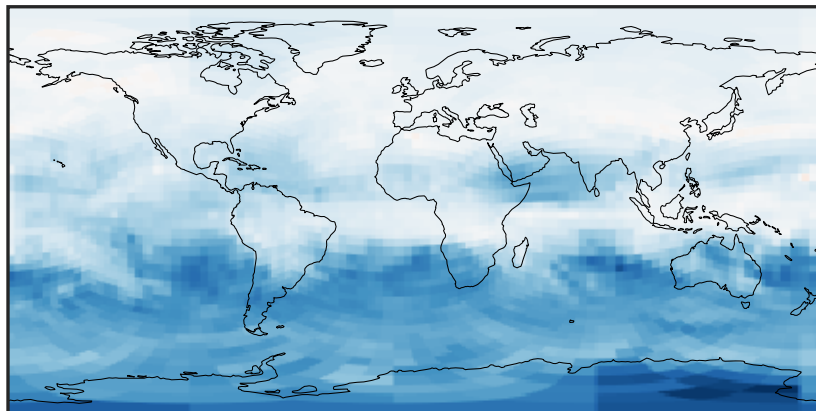
0.006955 0.006970 0.006985 0.007000  
ppb

GCHP\_14.2.0 (Dev)  
c24



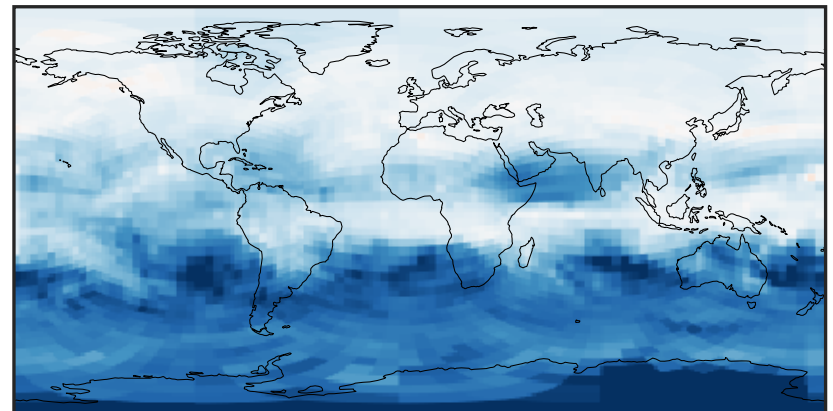
0.006955 0.006970 0.006985 0.007000  
ppb

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



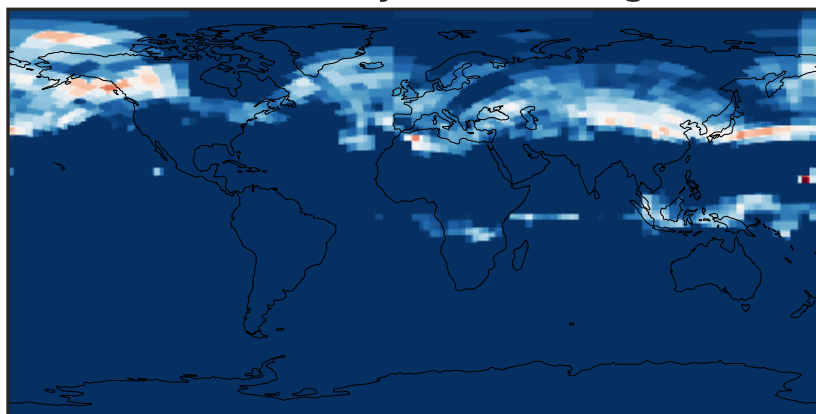
-5 0 5  
ppb  $1e-6$

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



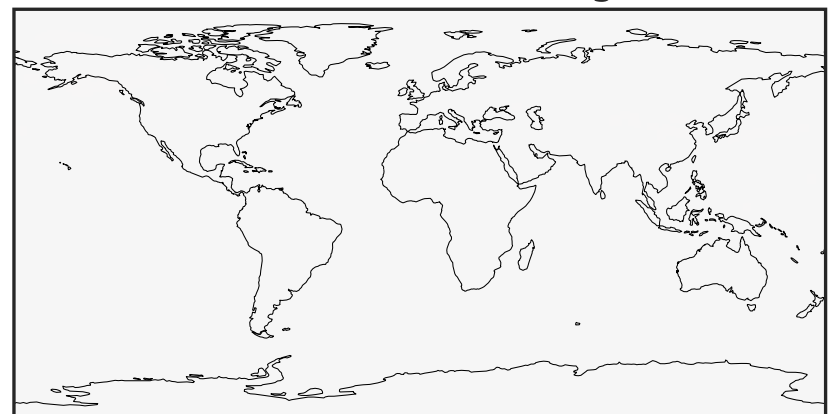
-4 0 4  
ppb  $1e-6$

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



0.9998949 1.000000 1.0001051  
unitless

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



0.50 0.75 1.00 1.50 2.00  
unitless

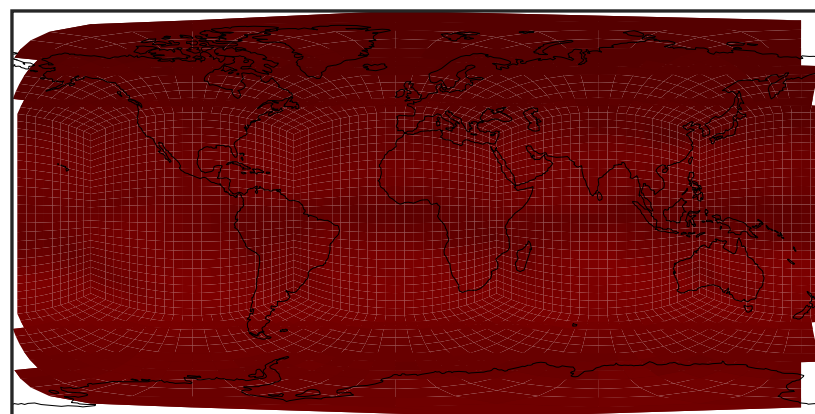
# SpeciesConcVV\_HCFCs (Jan2019)

GCHP\_14.0.0 (Ref)  
c24



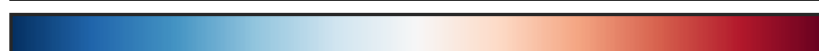
0.255 0.270 0.285  
ppb

GCHP\_14.2.0 (Dev)  
c24



0.255 0.270 0.285  
ppb

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



-0.025 0.000 0.025  
ppb

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



-0.025 0.000 0.025  
ppb

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



0.8370 0.9185 1.0000 1.0974 1.1947  
unitless

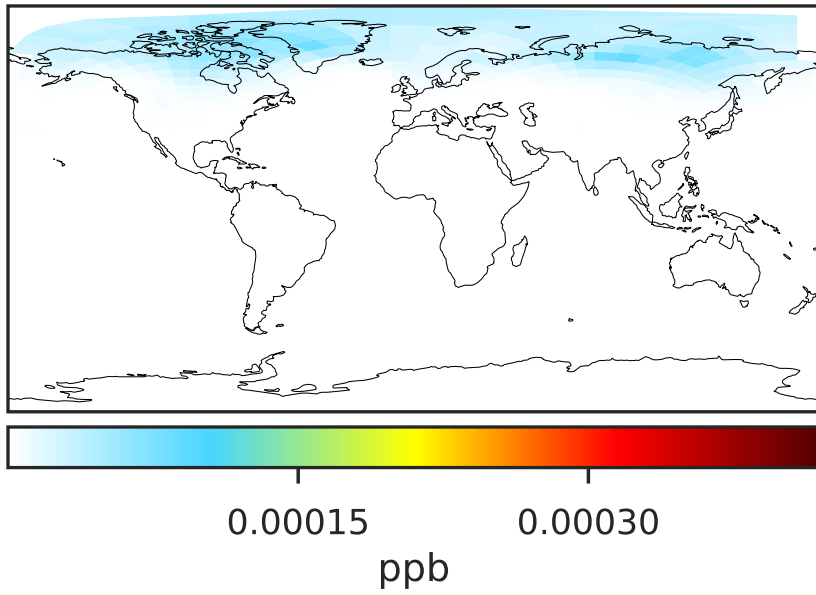
Ratio (1x1.25)  
Dev/Ref, Fixed Range



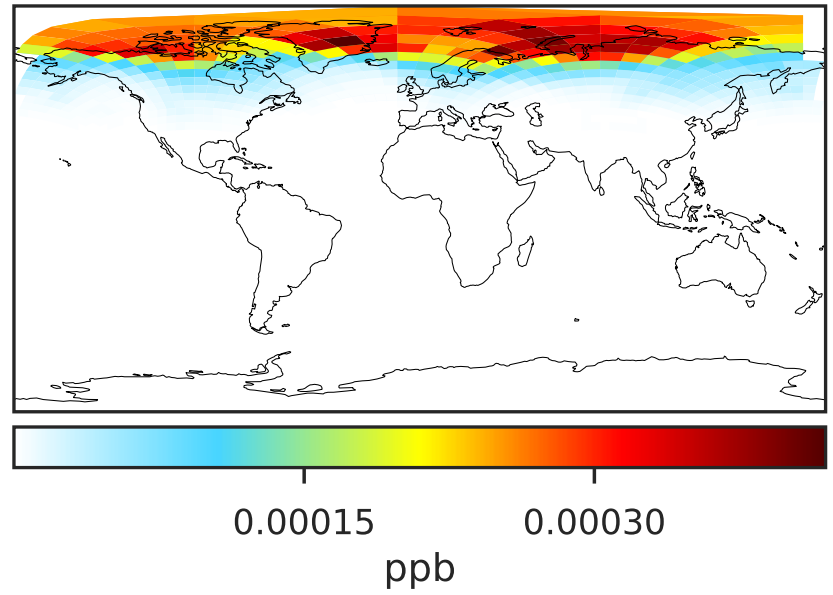
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_OCIO (Jan2019)

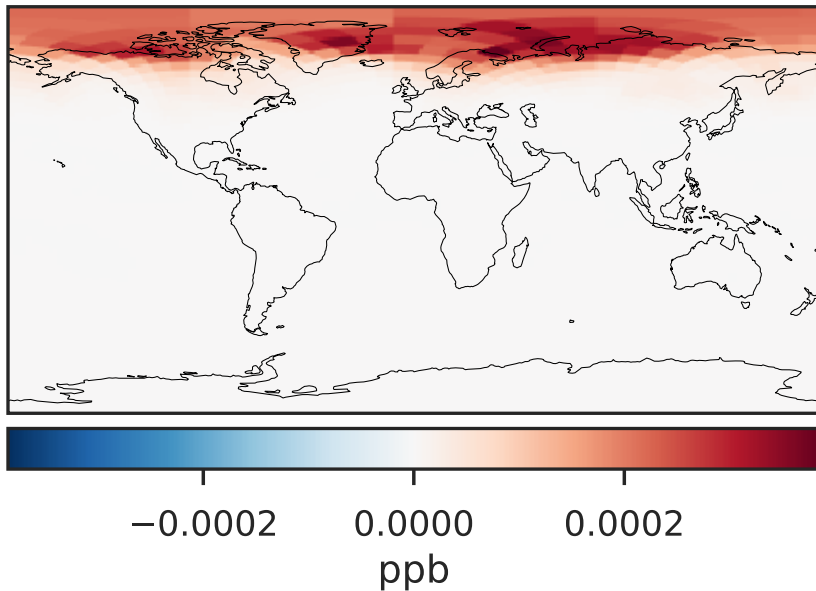
GCHP\_14.0.0 (Ref)  
c24



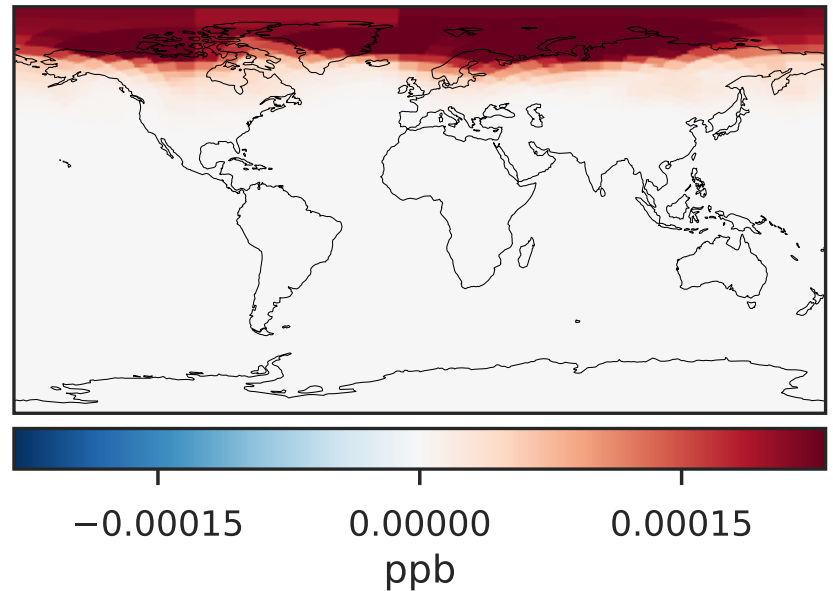
GCHP\_14.2.0 (Dev)  
c24



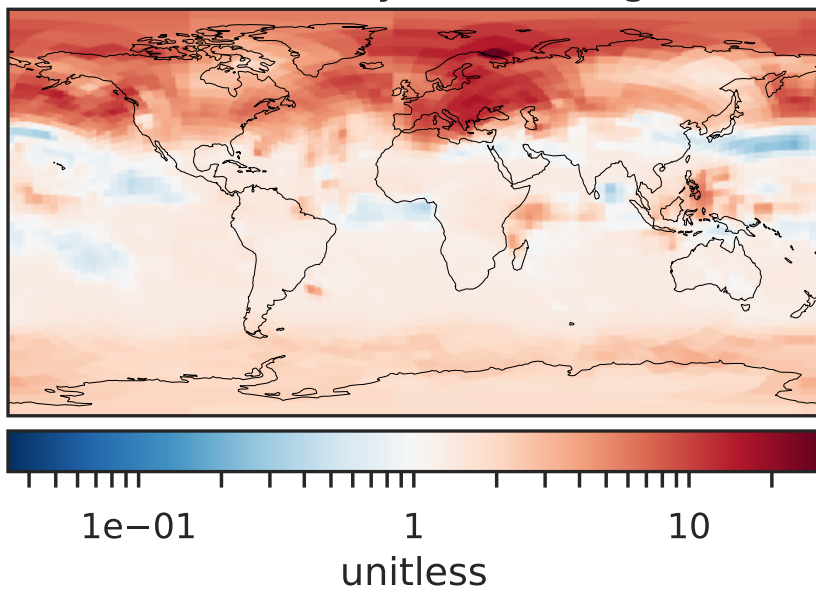
Difference (1x1.25)  
Dev - Ref, Dynamic Range



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



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



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

