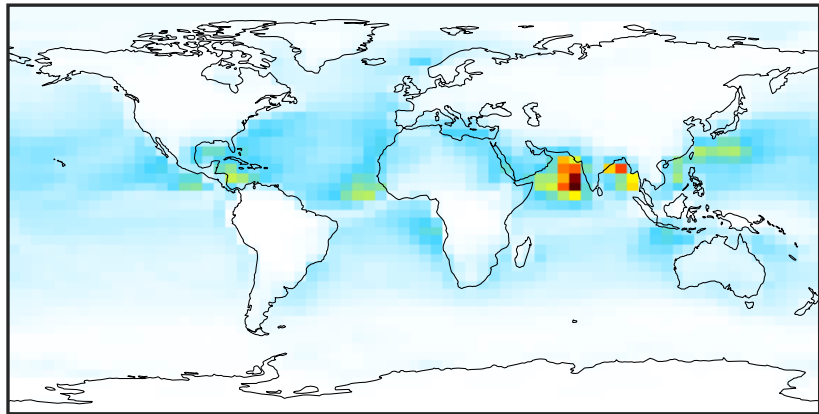


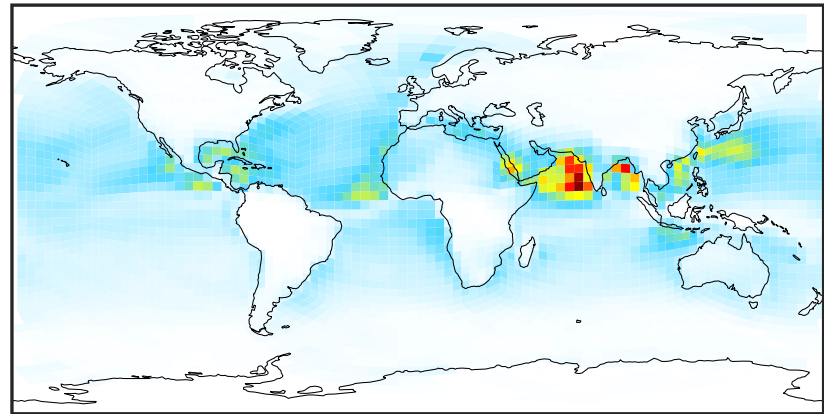
# SpeciesConcVV\_Cly (Apr2019)

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



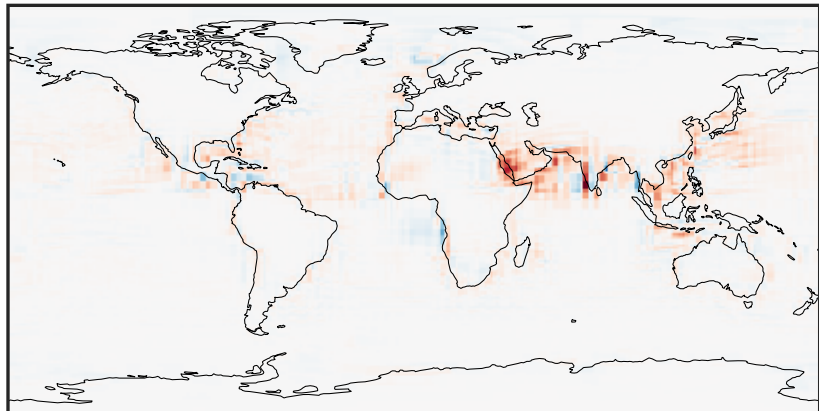
0.009 0.417 0.834 1.250 1.677  
ppb

GCHP\_14.2.0 (Dev)  
c24



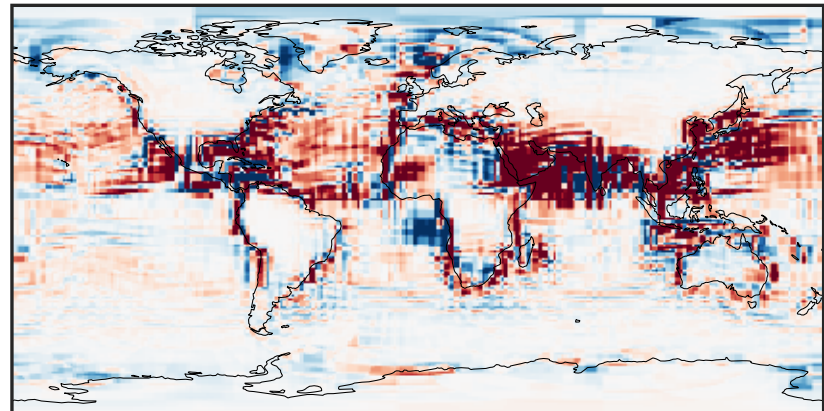
0.009 0.417 0.834 1.250 1.677  
ppb

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



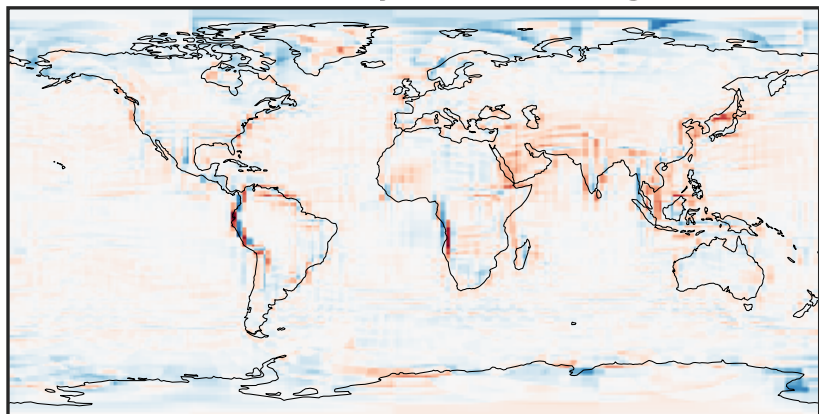
-0.626 -0.313 0.000 0.313 0.626  
ppb

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



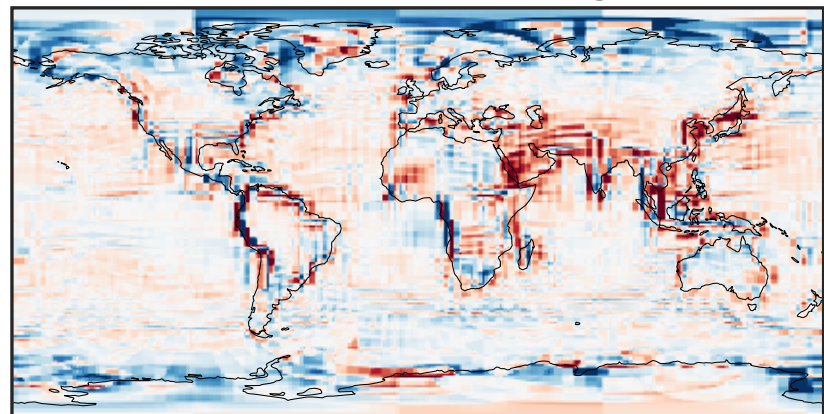
-0.050 -0.025 0.000 0.025 0.050  
ppb

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



0.158 0.579 1.000 3.669 6.338  
unitless

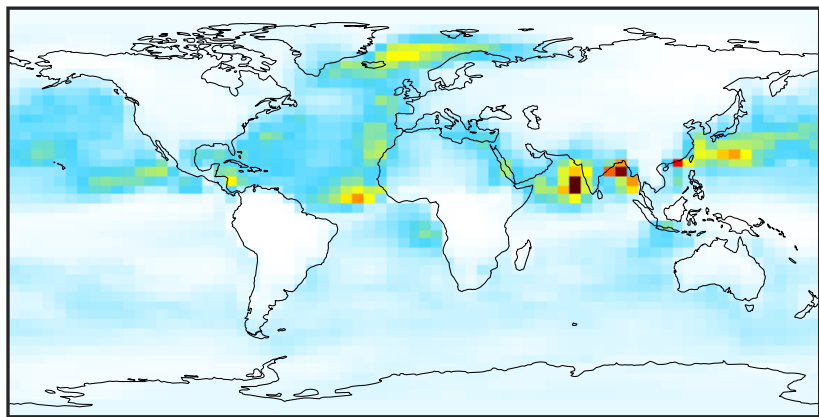
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

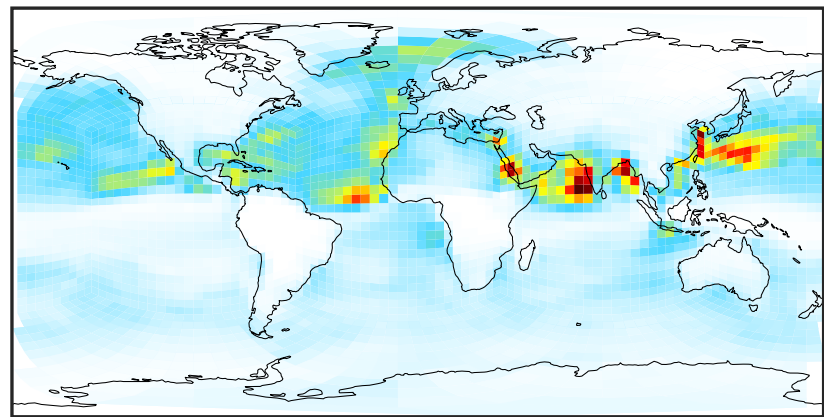
# SpeciesConcVV\_ClOx (Apr2019)

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



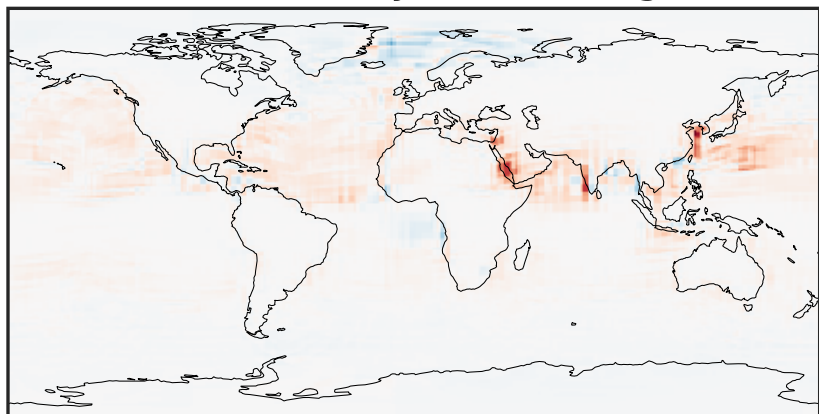
0.006      0.012      0.018  
ppb

GCHP\_14.2.0 (Dev)  
c24



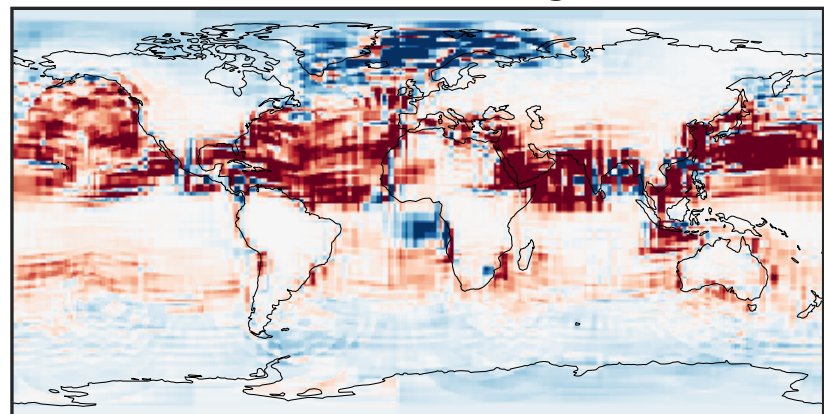
0.006      0.012      0.018  
ppb

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



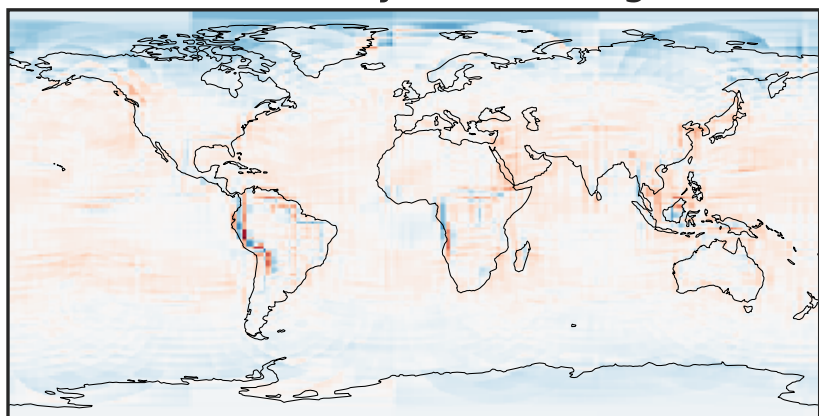
-0.008      0.000      0.008  
ppb

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



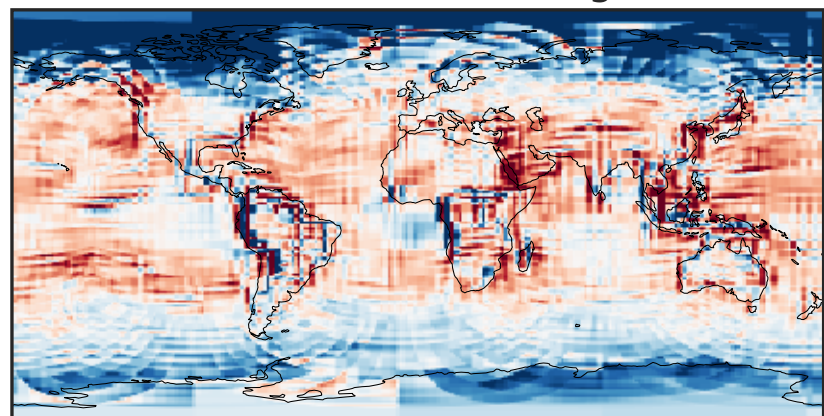
-0.0008      0.0000      0.0008  
ppb

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



1e-01      1      10  
unitless

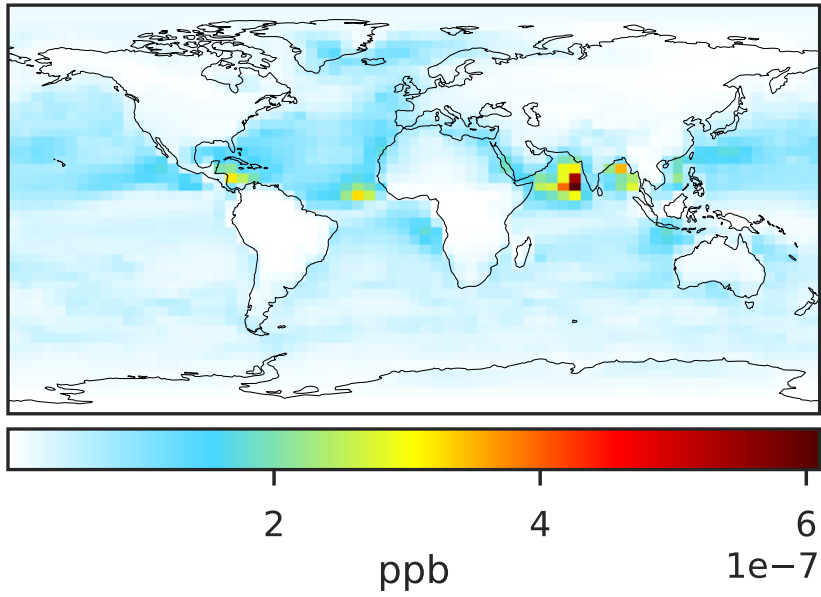
Ratio (1x1.25)  
Dev/Ref, Fixed Range



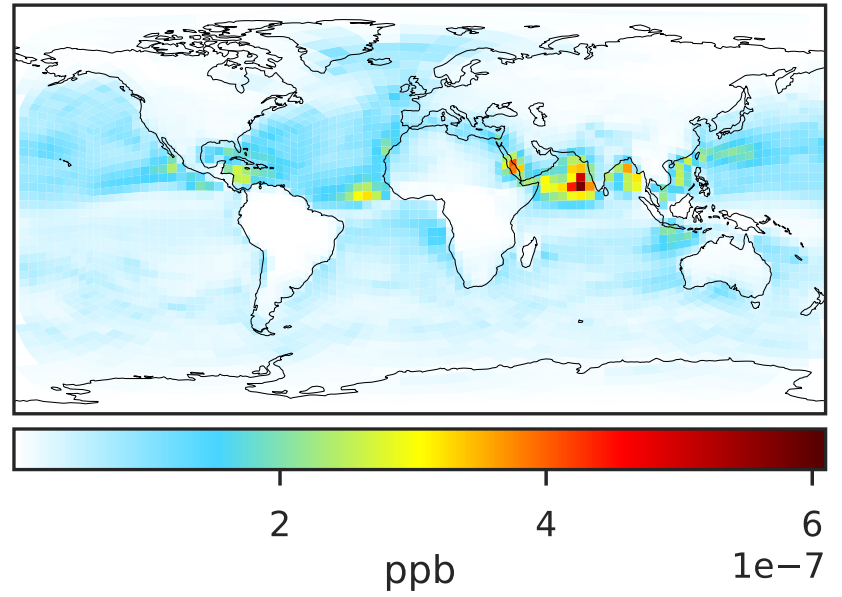
0.50      0.75      1.00      1.50      2.00  
unitless

# SpeciesConcVV\_CI (Apr2019)

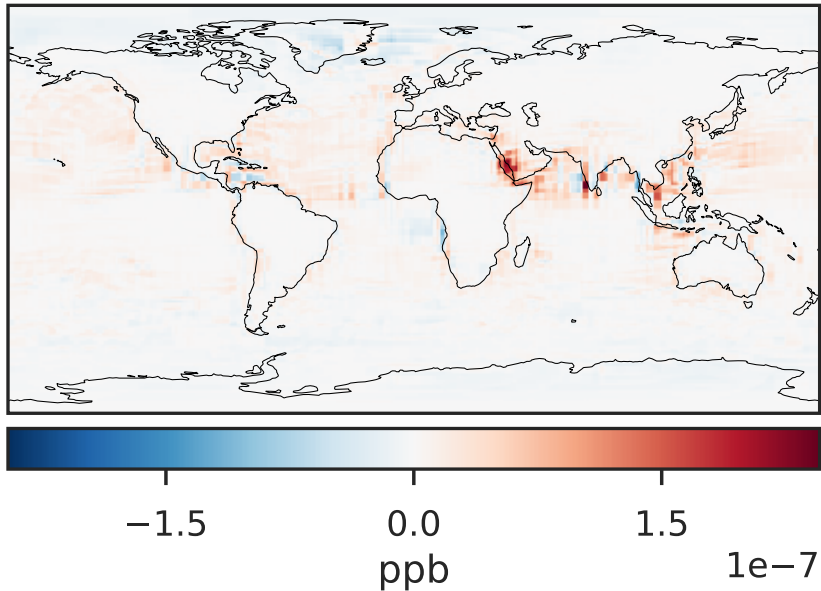
GCC\_14.2.0 (Ref)  
4.0x5.0



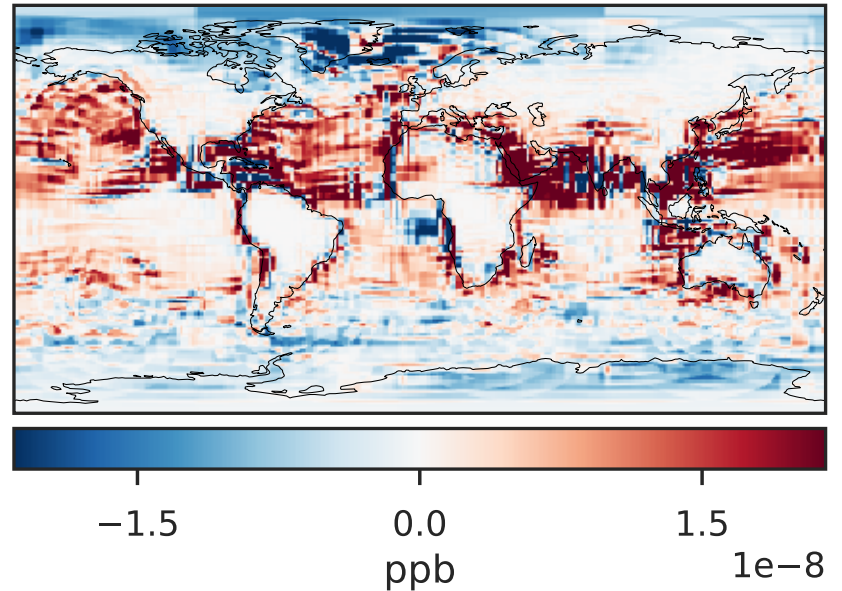
GCHP\_14.2.0 (Dev)  
c24



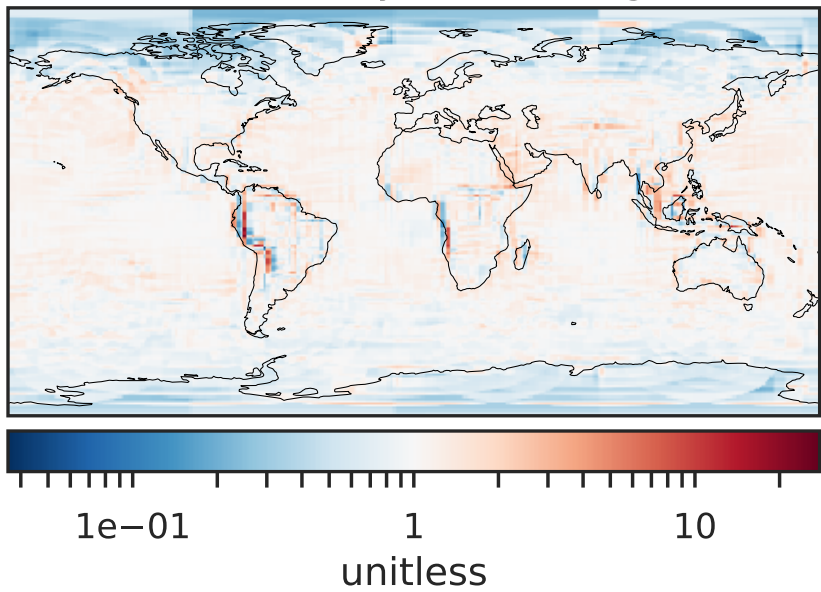
Difference (1x1.25)  
Dev - Ref, Dynamic Range



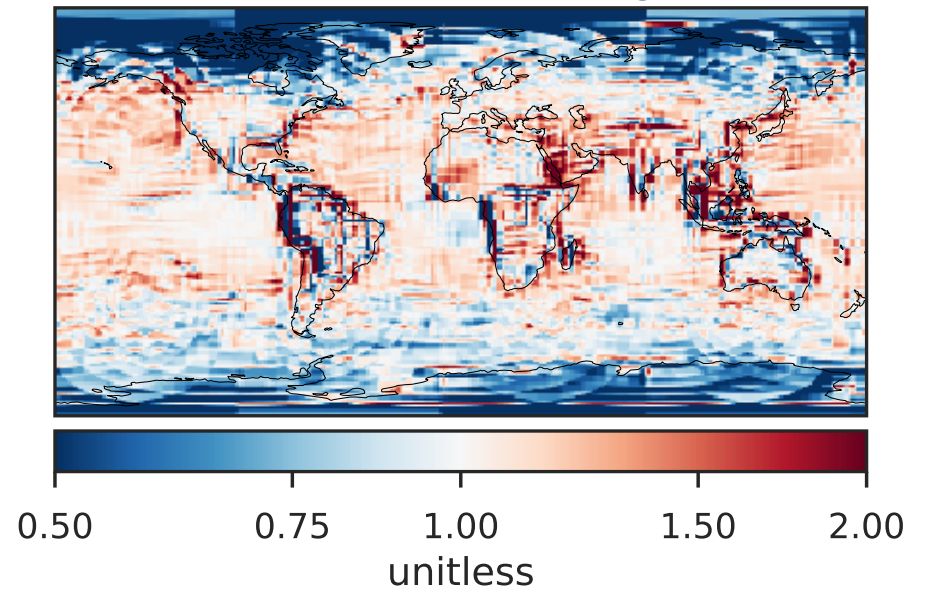
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

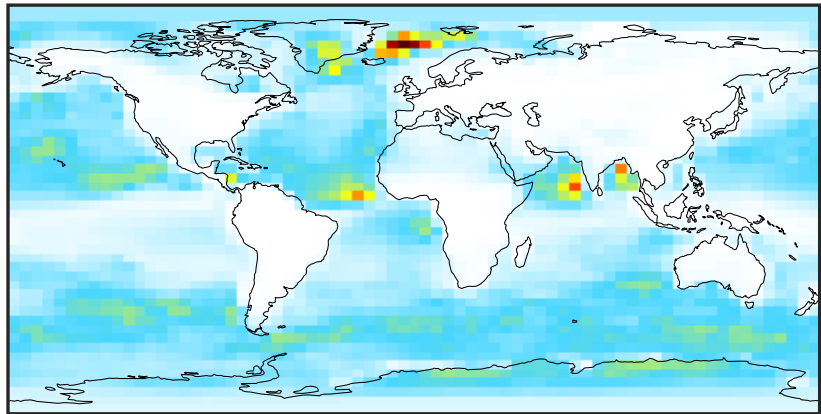


Ratio (1x1.25)  
Dev/Ref, Fixed Range



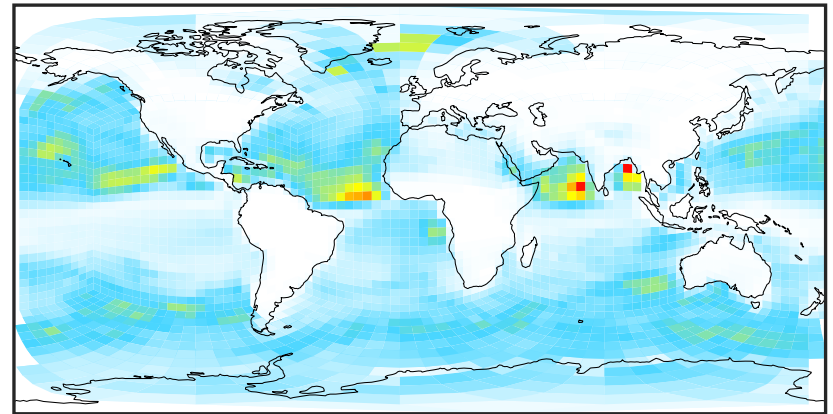
# SpeciesConcVV\_CIO (Apr2019)

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



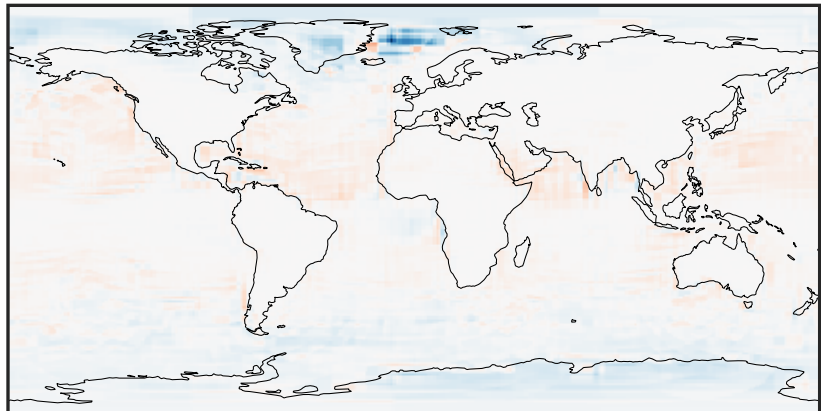
0.00015 0.00030 0.00045  
ppb

GCHP\_14.2.0 (Dev)  
c24



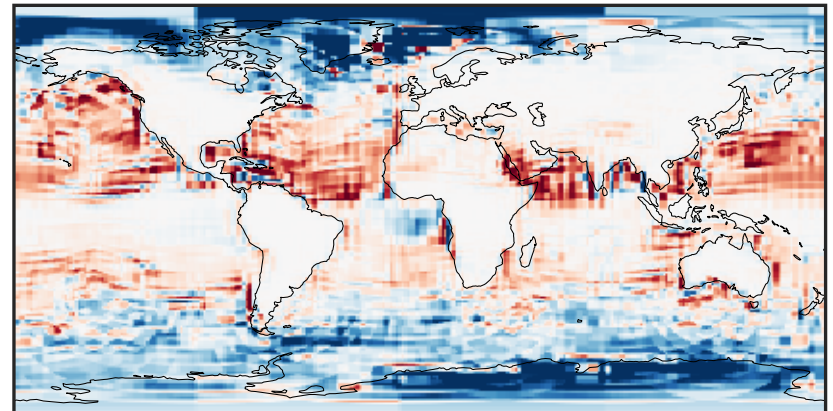
0.00015 0.00030 0.00045  
ppb

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



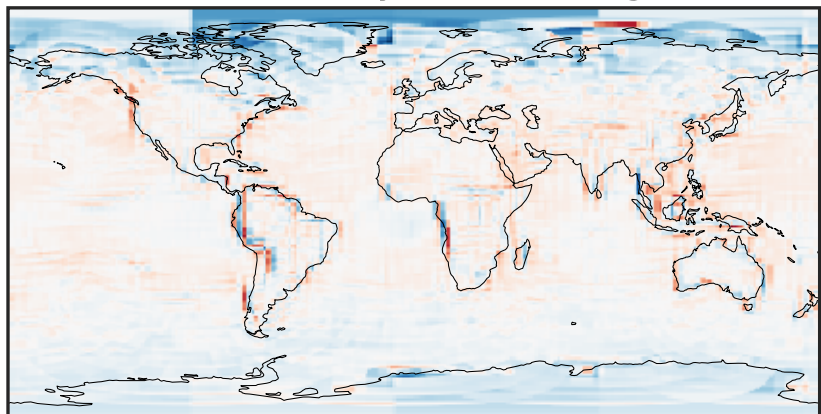
-0.00025 0.00000 0.00025  
ppb

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



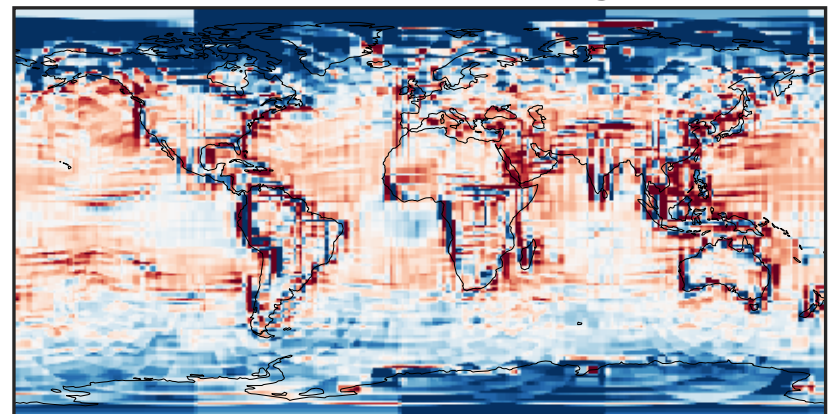
-3 0 3  
ppb  $1e-5$

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



$1e-01$  1 10  
unitless

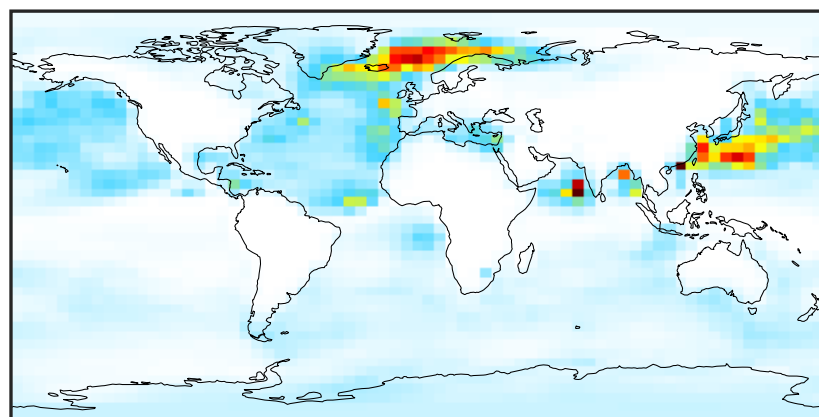
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

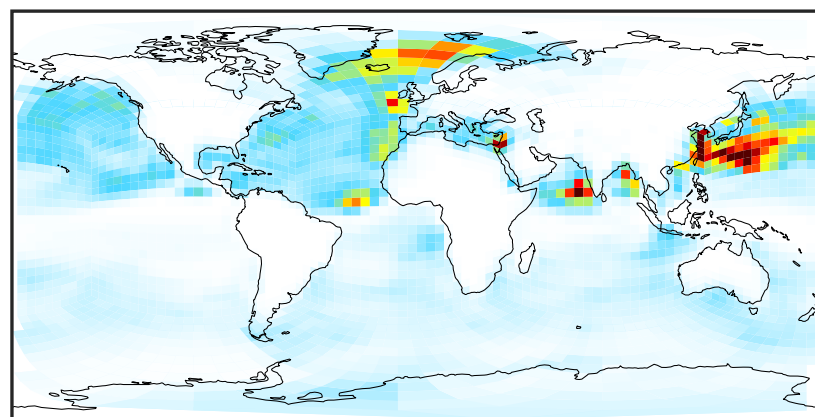
# SpeciesConcVV\_Cl2 (Apr2019)

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



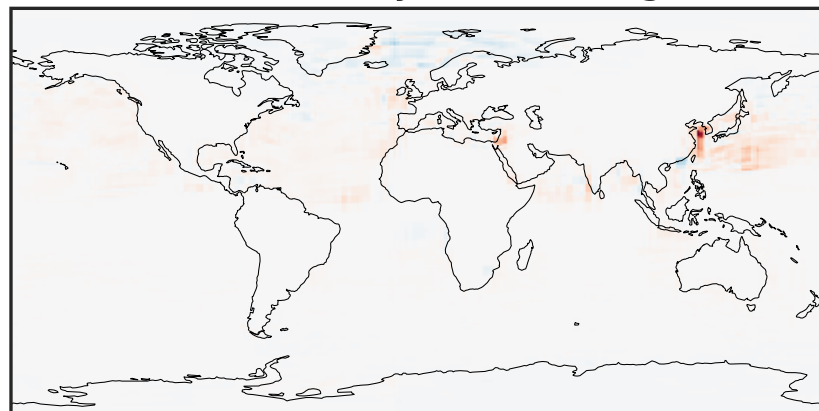
0.001 0.002 0.003  
ppb

GCHP\_14.2.0 (Dev)  
c24



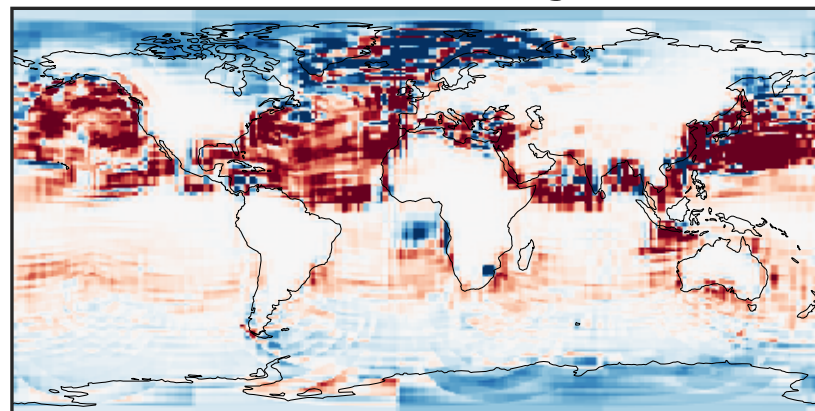
0.001 0.002 0.003  
ppb

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



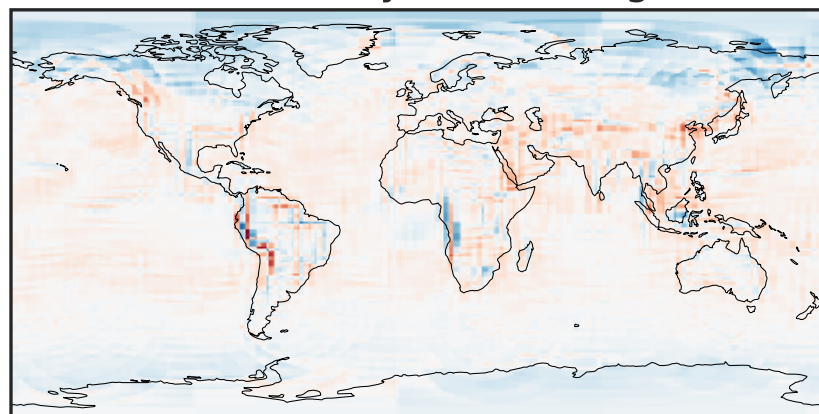
-0.004 0.000 0.004  
ppb

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



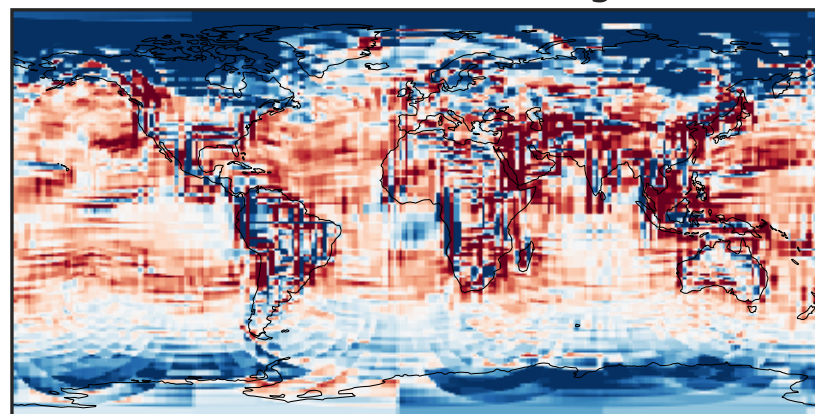
-0.00015 0.00000 0.00015  
ppb

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



1e-02 1e-01 1 10 100  
unitless

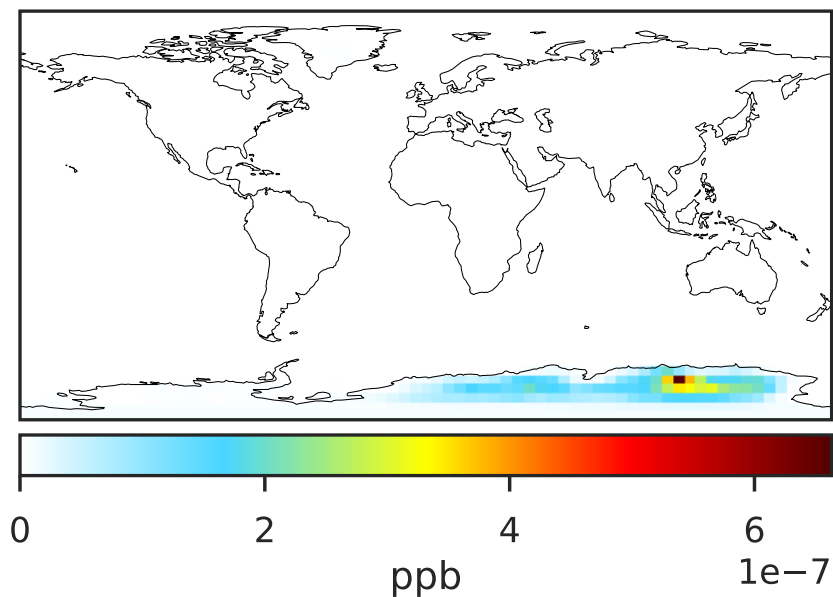
Ratio (1x1.25)  
Dev/Ref, Fixed Range



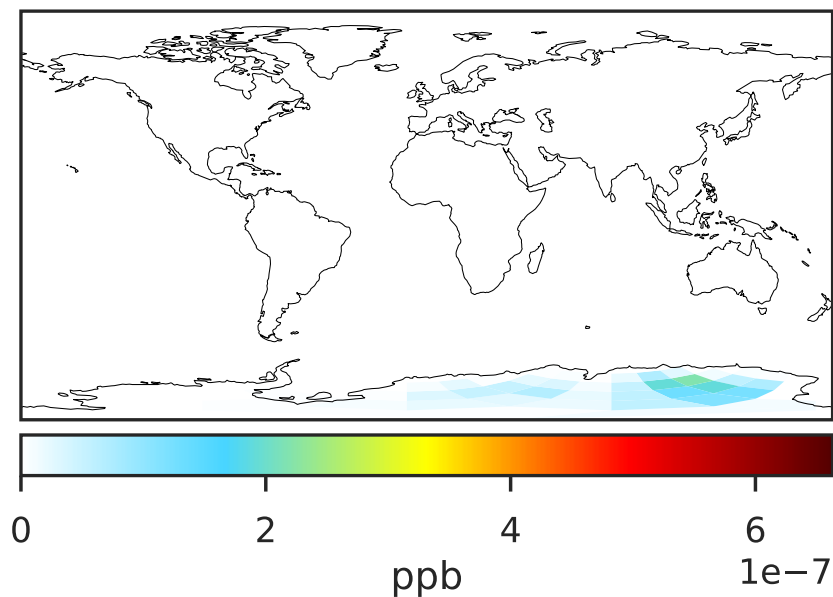
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_Cl2O2 (Apr2019)

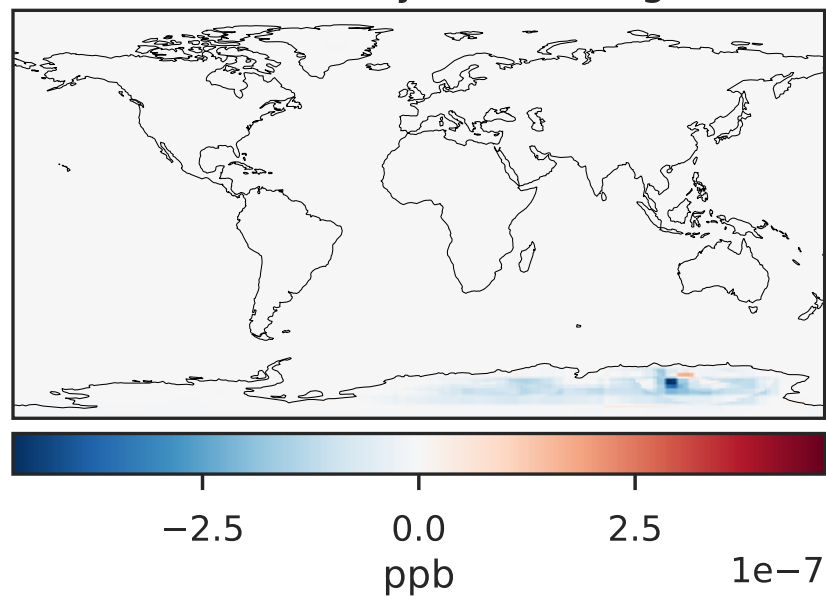
GCC\_14.2.0 (Ref)  
4.0x5.0



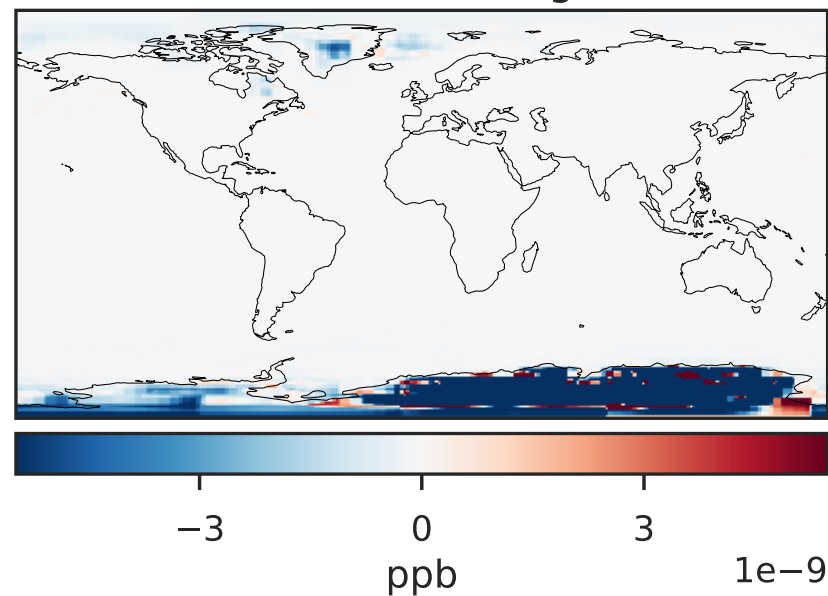
GCHP\_14.2.0 (Dev)  
c24



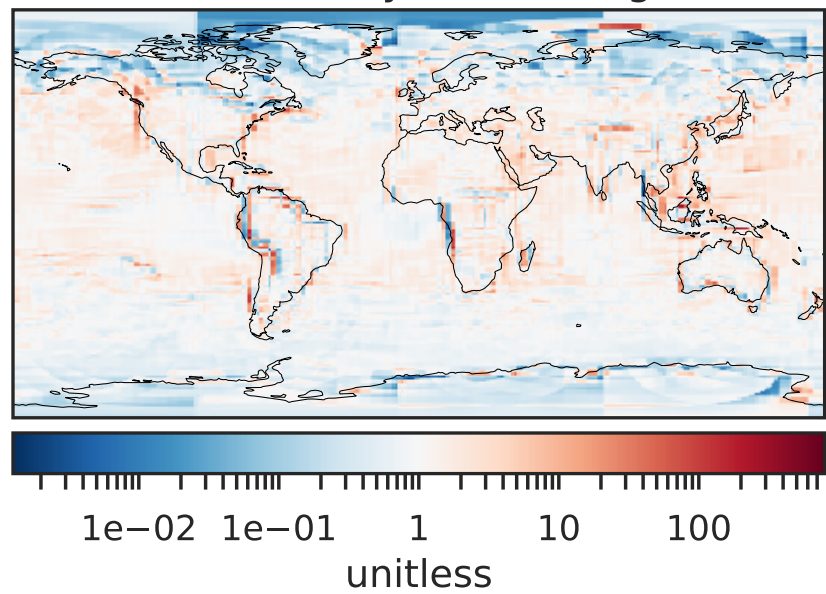
Difference (1x1.25)  
Dev - Ref, Dynamic Range



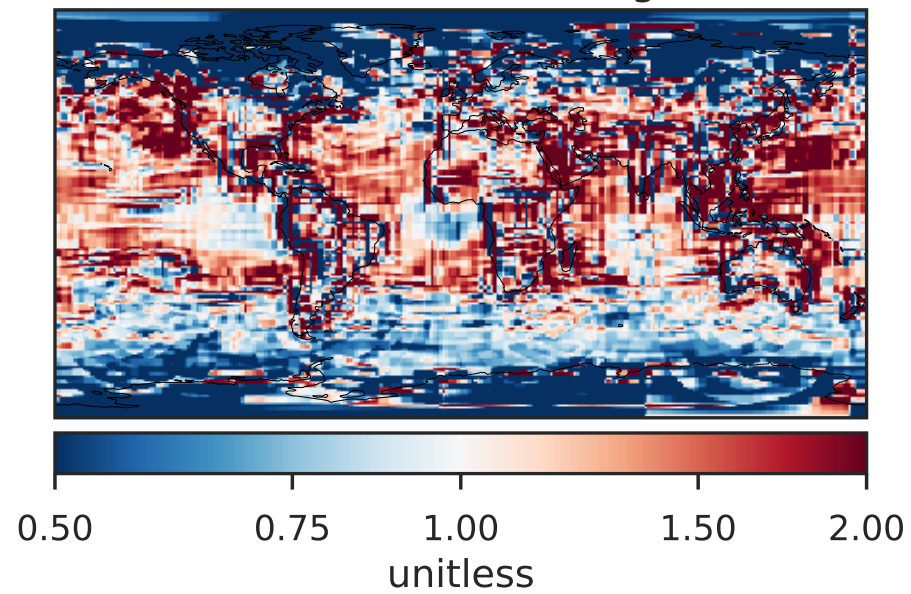
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

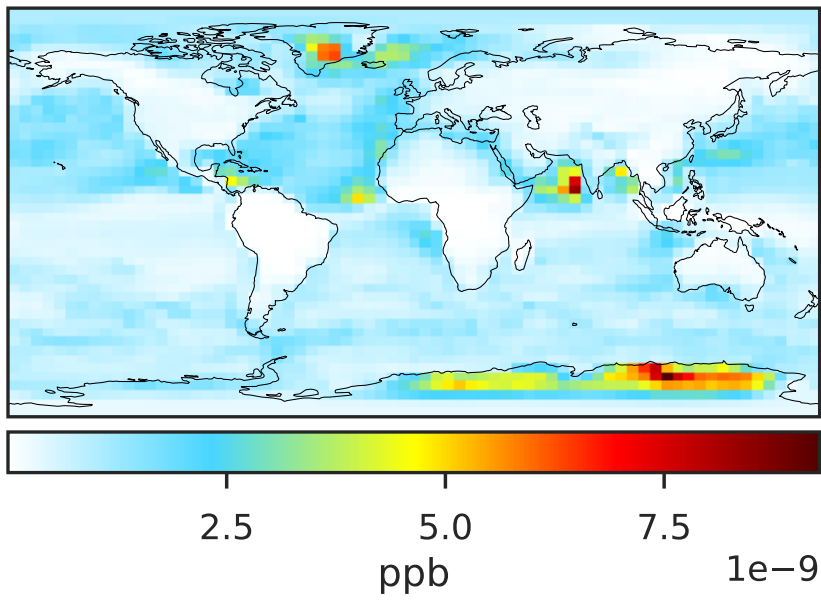


Ratio (1x1.25)  
Dev/Ref, Fixed Range

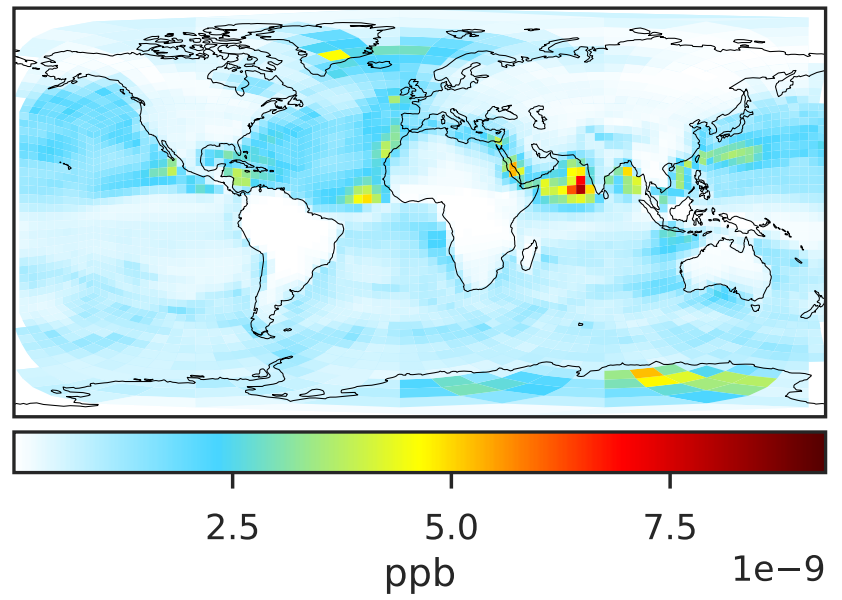


# SpeciesConcVV\_C100 (Apr2019)

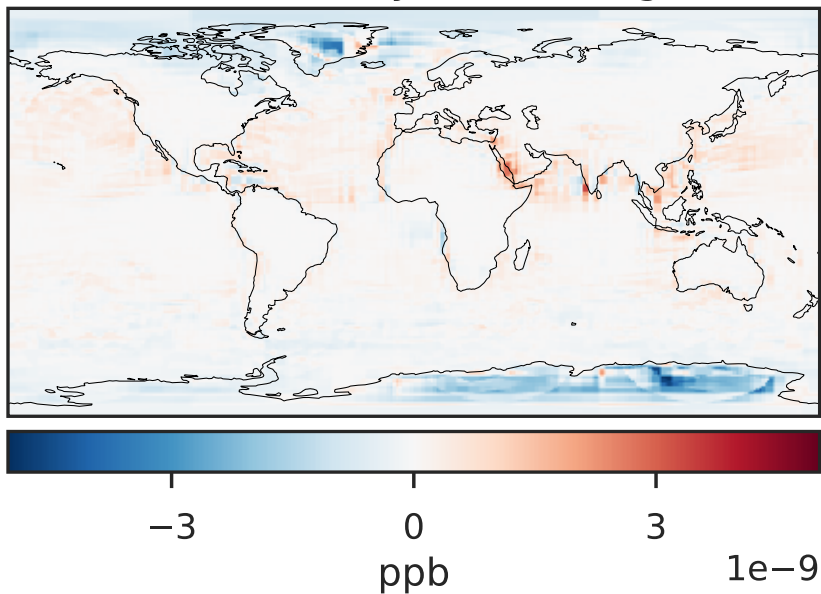
GCC\_14.2.0 (Ref)  
4.0x5.0



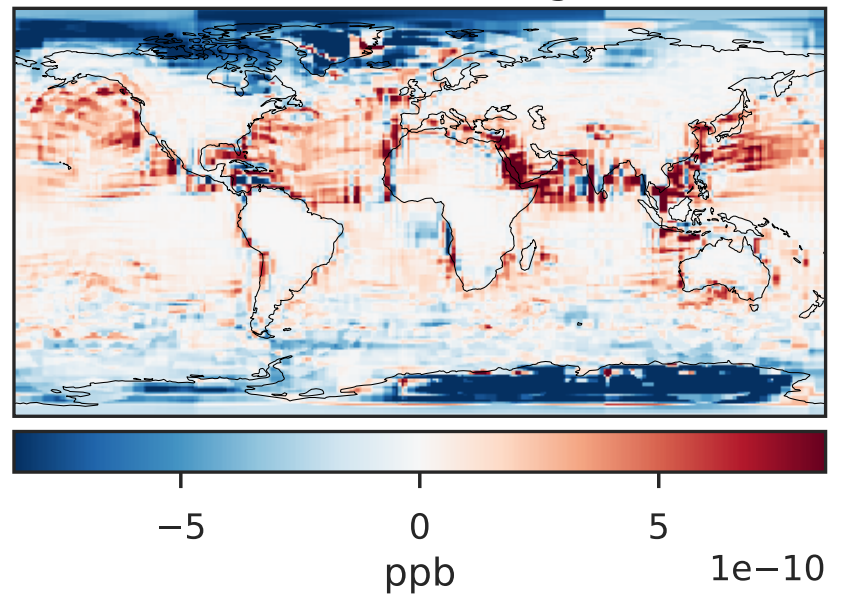
GCHP\_14.2.0 (Dev)  
c24



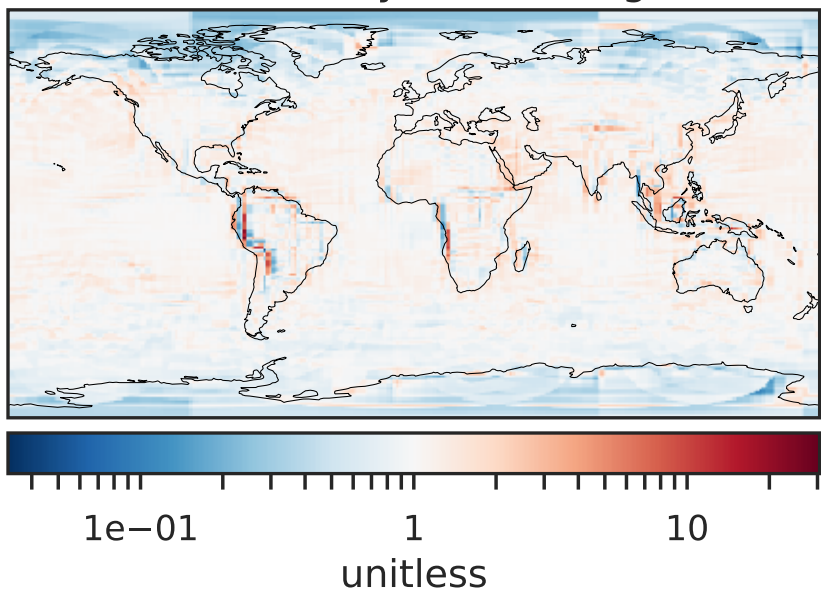
Difference (1x1.25)  
Dev - Ref, Dynamic Range



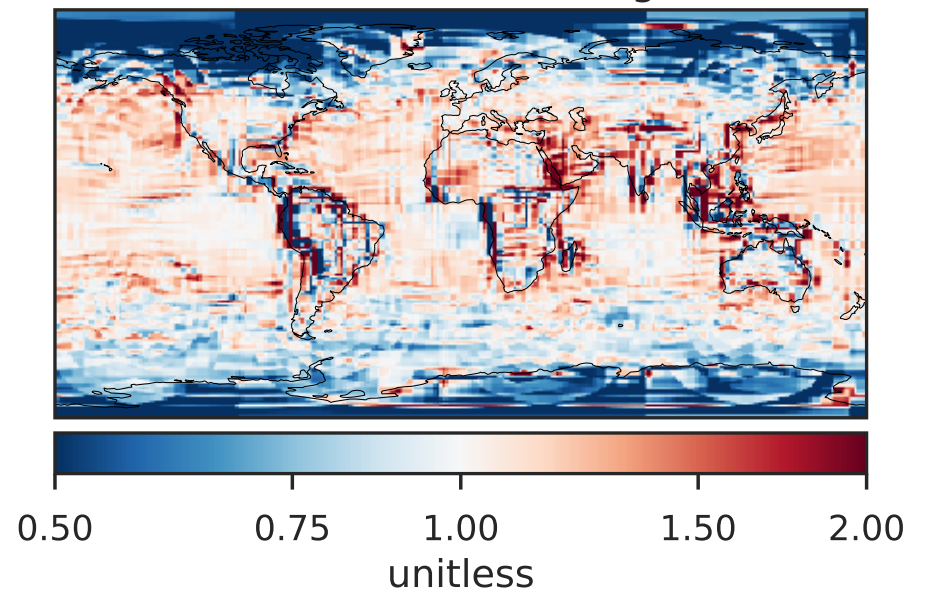
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

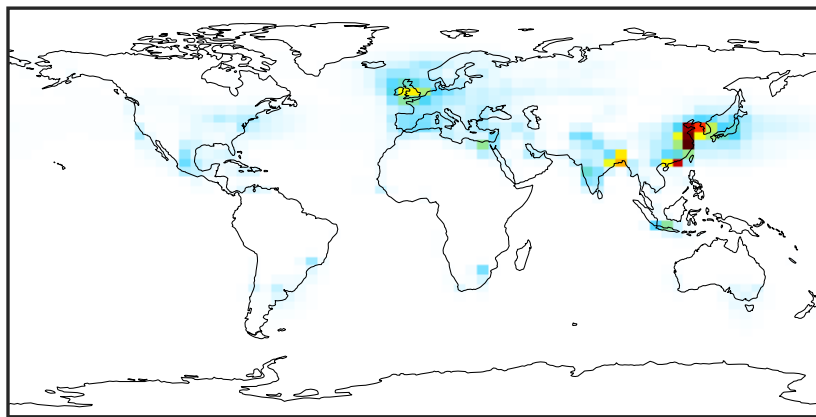


Ratio (1x1.25)  
Dev/Ref, Fixed Range



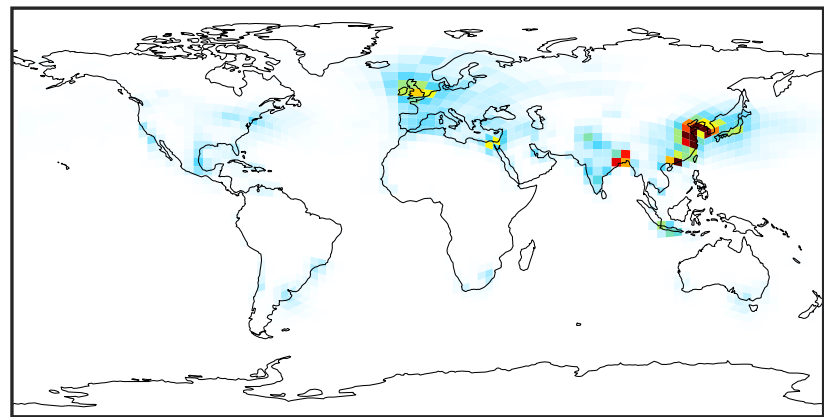
# SpeciesConcVW\_CINO2 (Apr2019)

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



0.02 0.04 0.06  
ppb

GCHP\_14.2.0 (Dev)  
c24



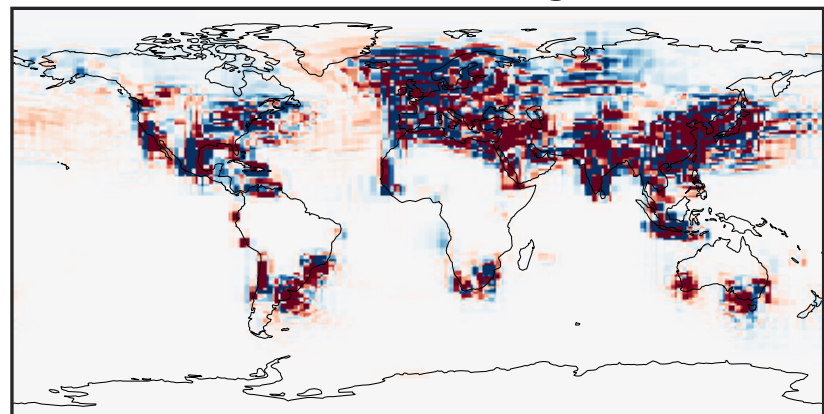
0.02 0.04 0.06  
ppb

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



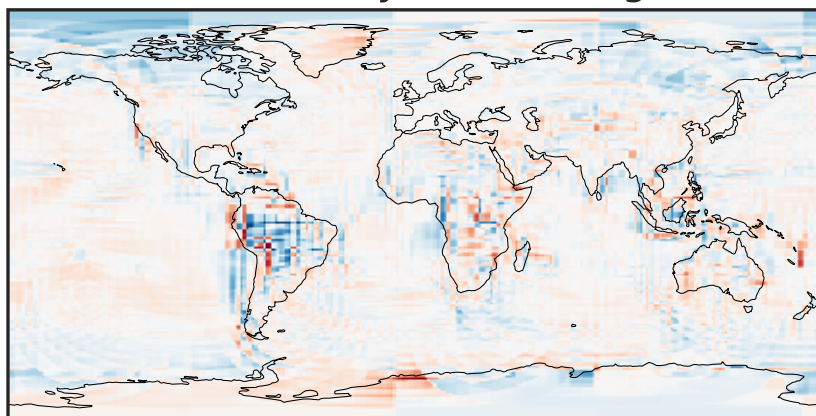
-0.0630 -0.0315 0.0000 0.0315 0.0630  
ppb

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



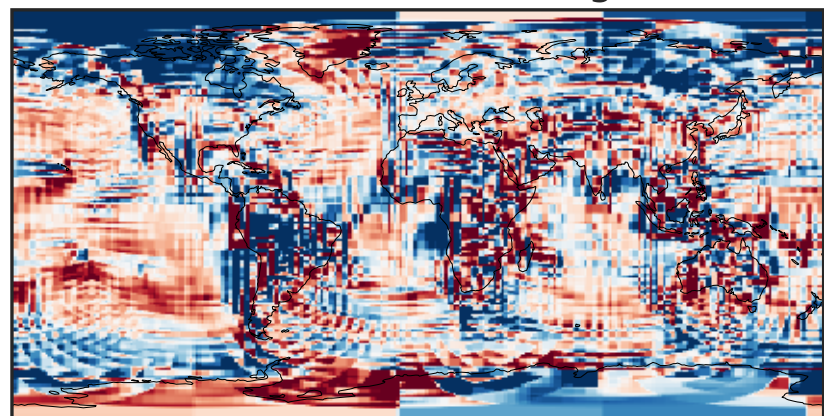
-0.0004 0.0000 0.0004  
ppb

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



1e-02 1e-01 1 10 100  
unitless

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

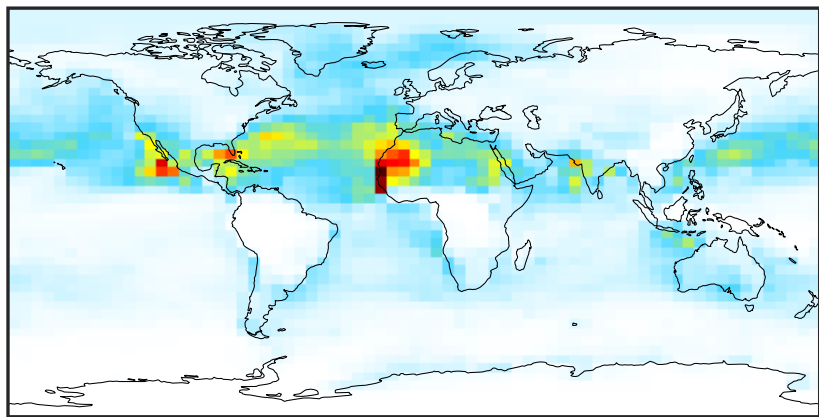


0.50 0.75 1.00 1.50 2.00  
unitless



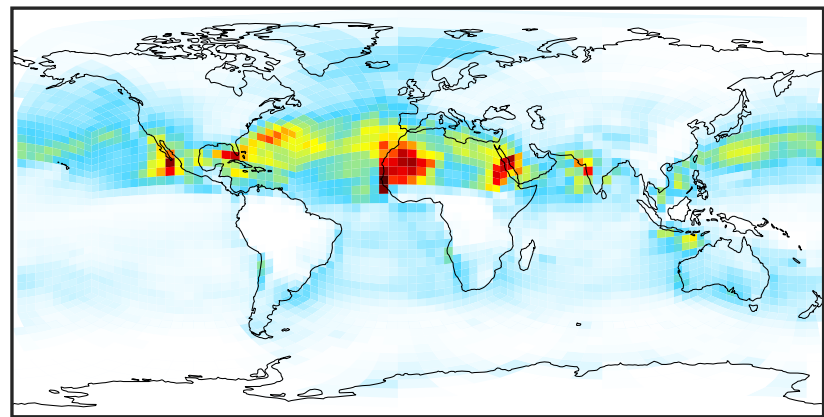
# SpeciesConcVW\_CINO3 (Apr2019)

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



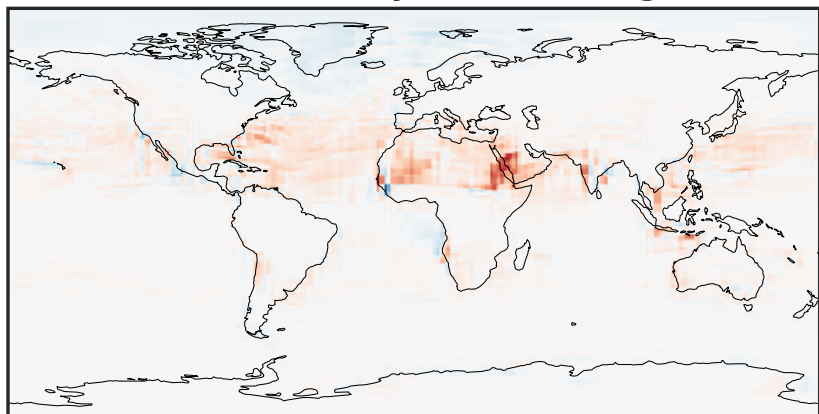
0.0004 0.0008 0.0012 0.0016  
ppb

GCHP\_14.2.0 (Dev)  
c24



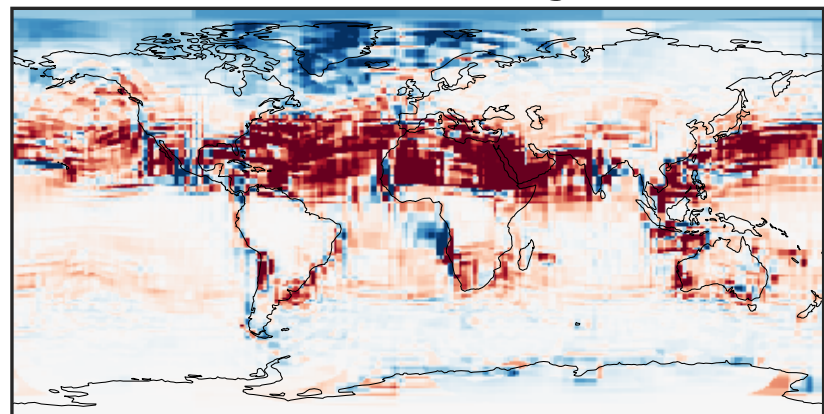
0.0004 0.0008 0.0012 0.0016  
ppb

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



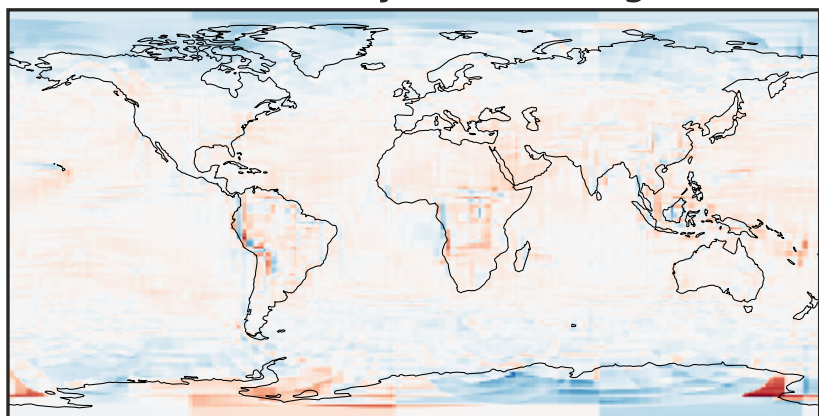
-0.0005 0.0000 0.0005  
ppb

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



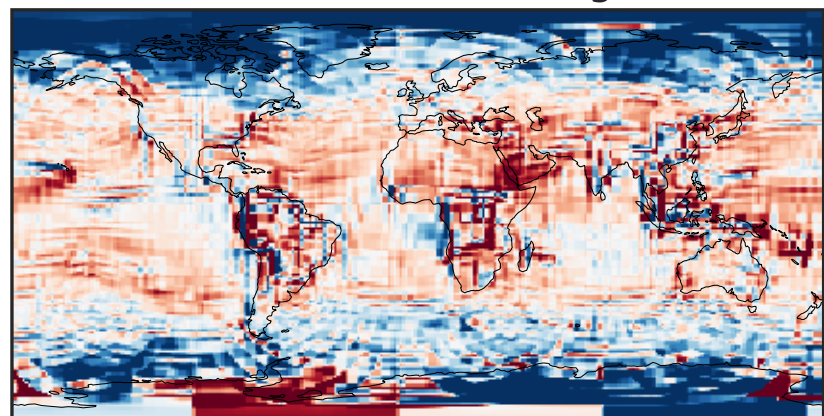
-6 0 6  
ppb  $1e-5$

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



$1e-01$  1 10  
unitless

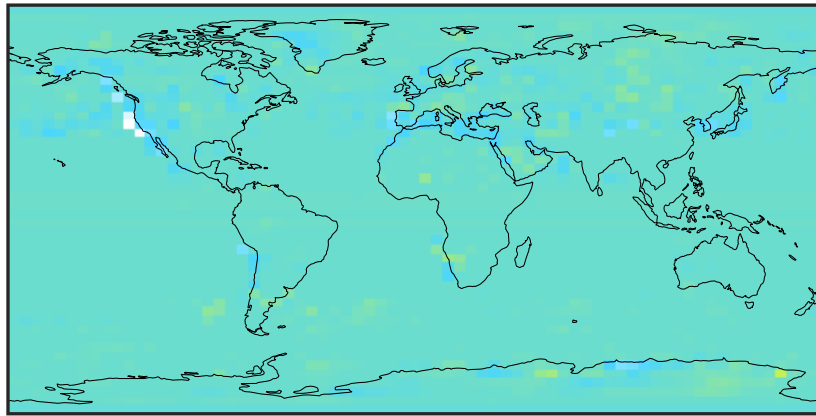
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

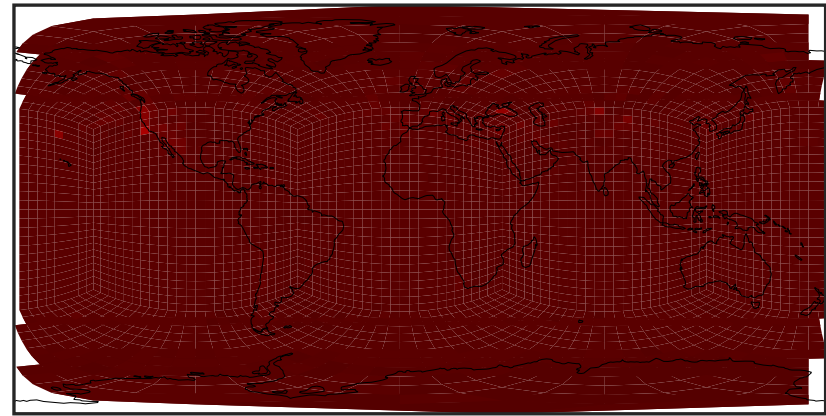
# SpeciesConcVV\_CCl4 (Apr2019)

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



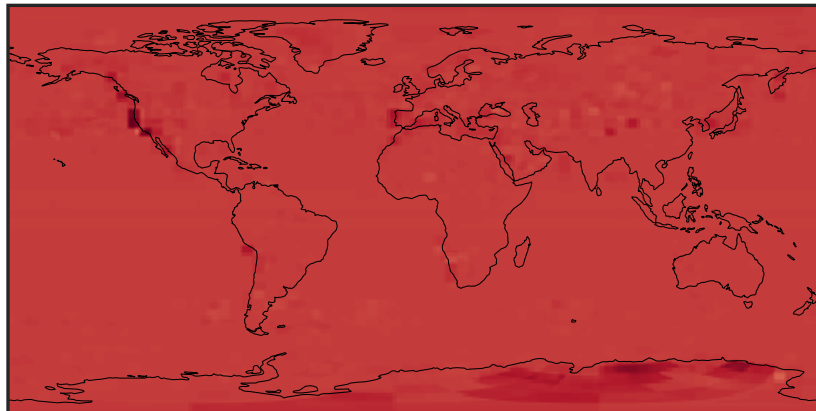
0.0773592 0.0773600 0.0773608 0.0773616  
ppb

GCHP\_14.2.0 (Dev)  
c24



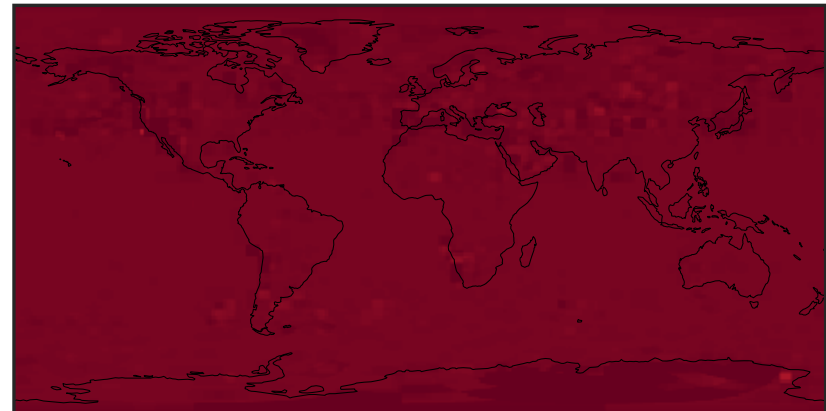
0.0773592 0.0773600 0.0773608 0.0773616  
ppb

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



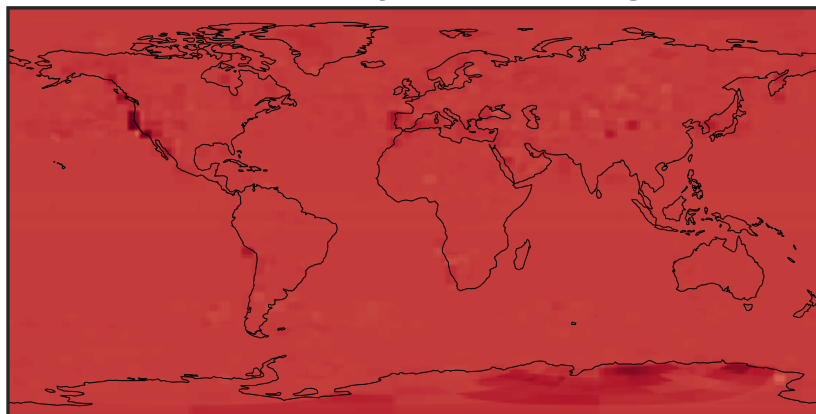
-1.5 0.0 1.5  
ppb  $1e-6$

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



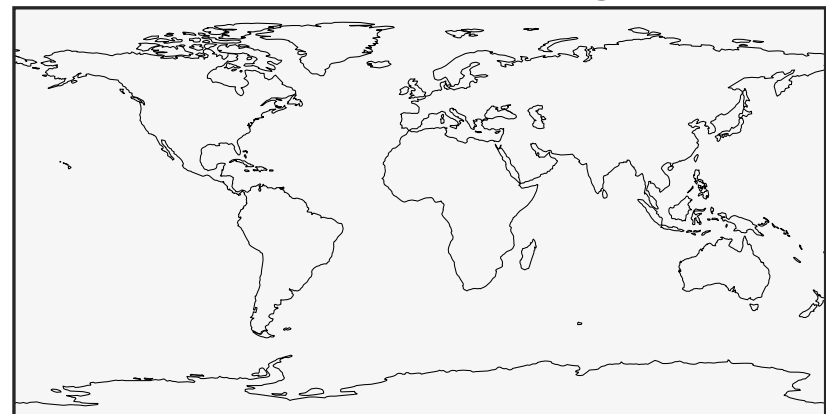
-1.5 0.0 1.5  
ppb  $1e-6$

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



0.99996319 1.0000000 1.00003681  
unitless

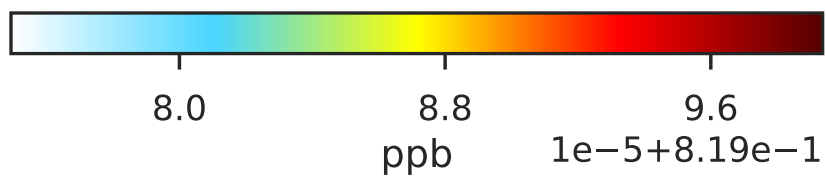
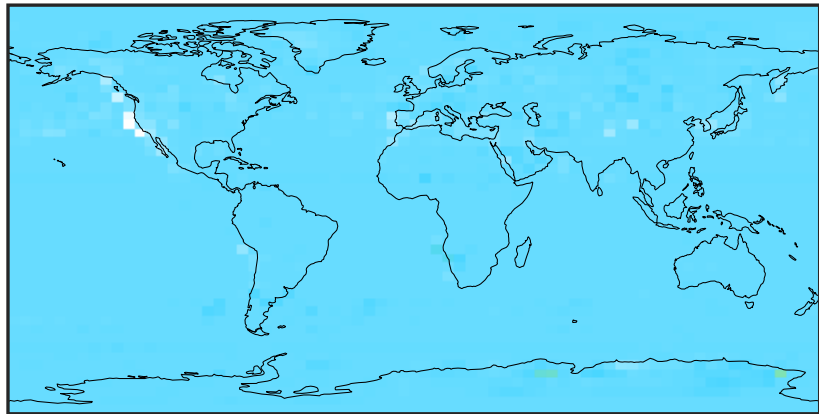
Ratio (1x1.25)  
Dev/Ref, Fixed Range



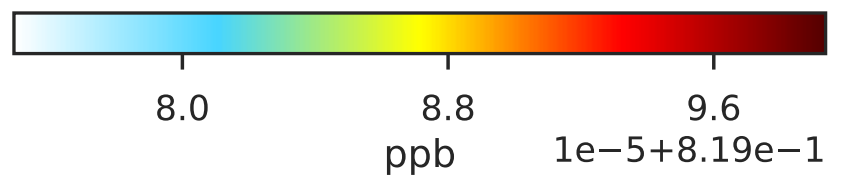
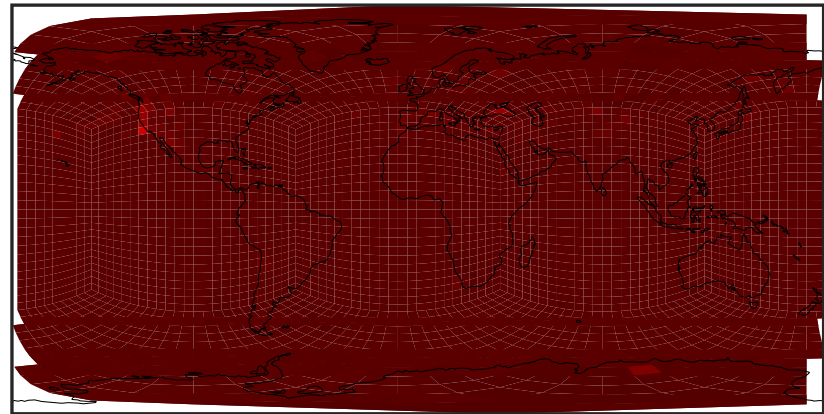
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_CFCs (Apr2019)

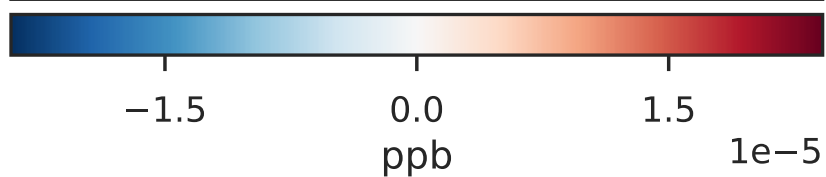
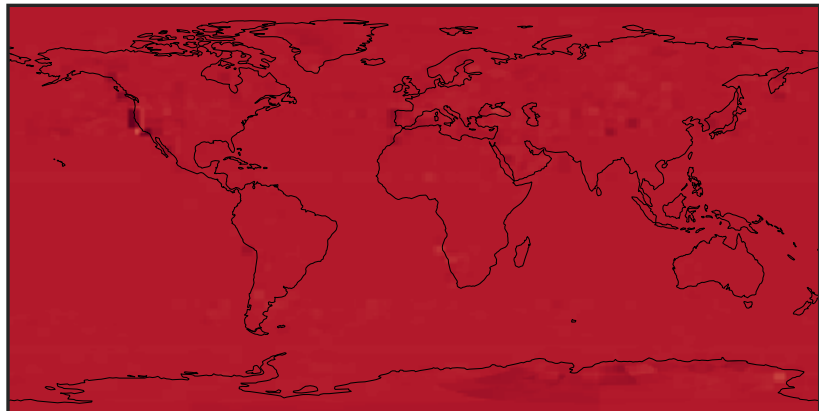
GCC\_14.2.0 (Ref)  
4.0x5.0



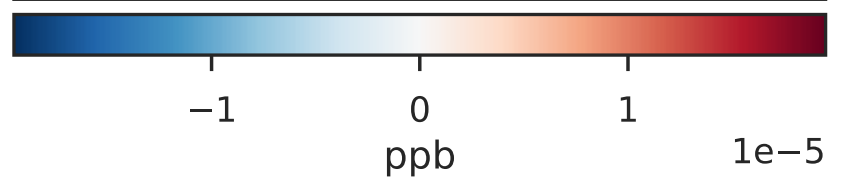
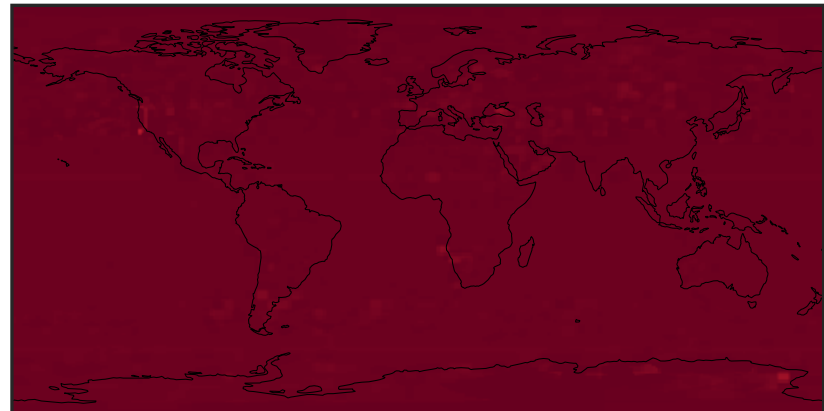
GCHP\_14.2.0 (Dev)  
c24



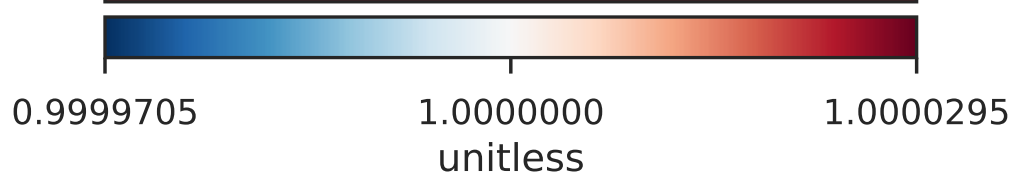
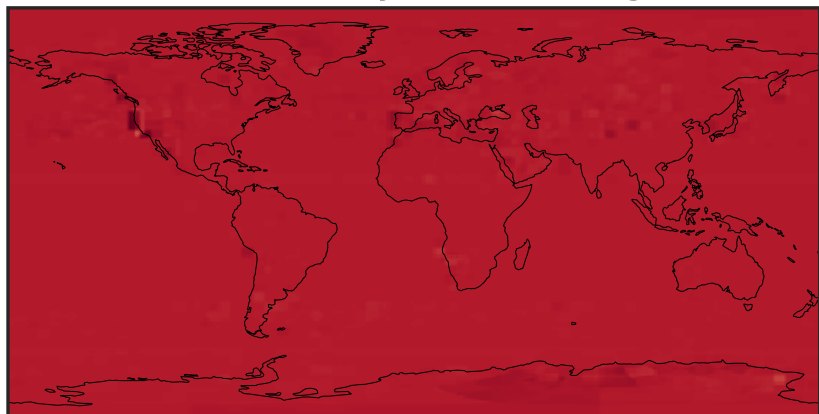
Difference (1x1.25)  
Dev - Ref, Dynamic Range



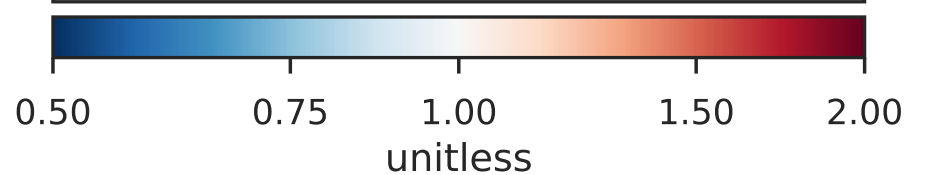
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

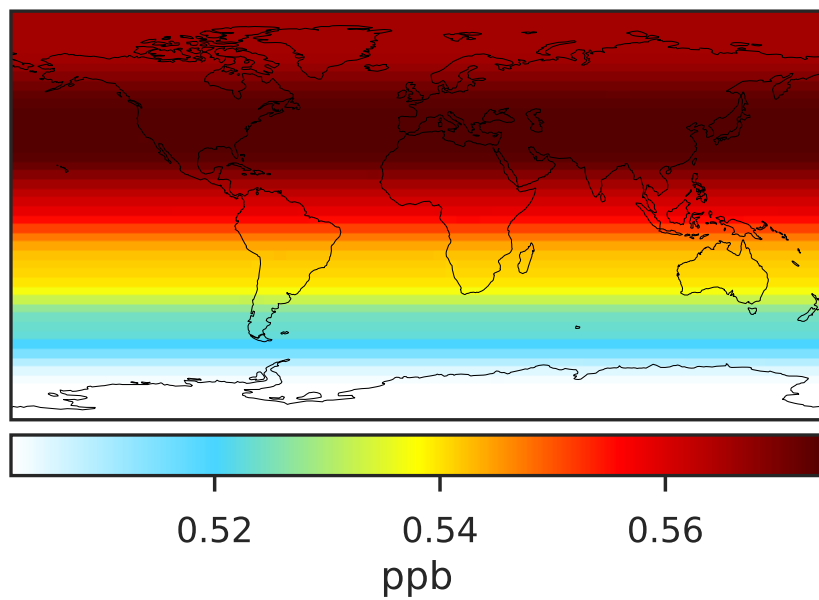


Ratio (1x1.25)  
Dev/Ref, Fixed Range

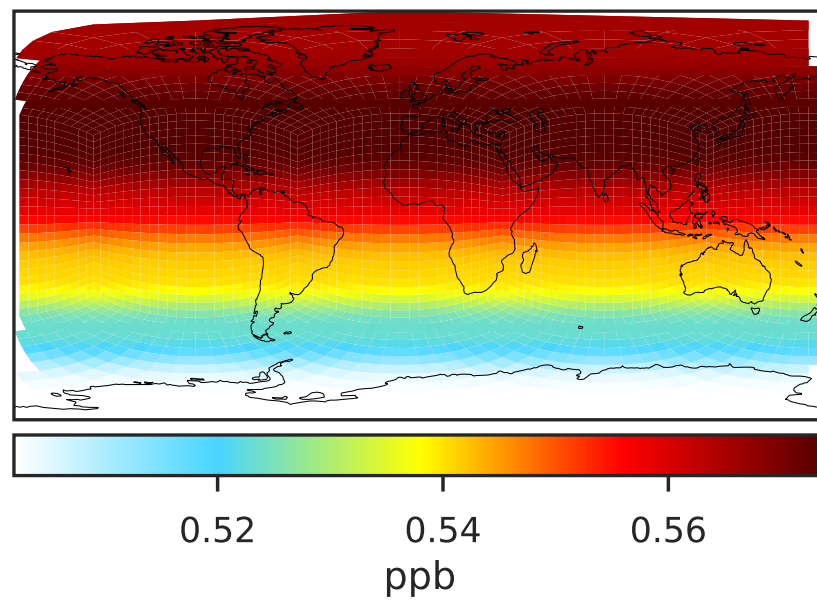


# SpeciesConcVV\_CH3Cl (Apr2019)

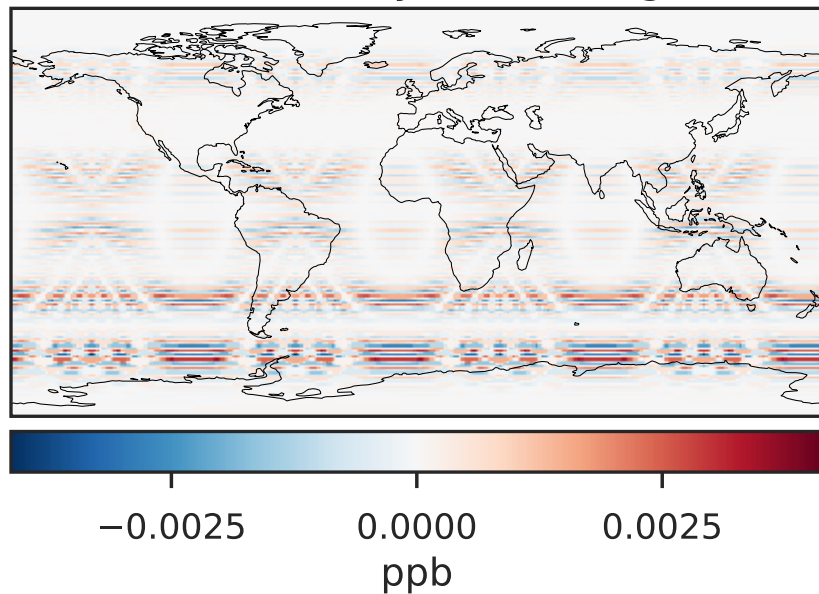
GCC\_14.2.0 (Ref)  
4.0x5.0



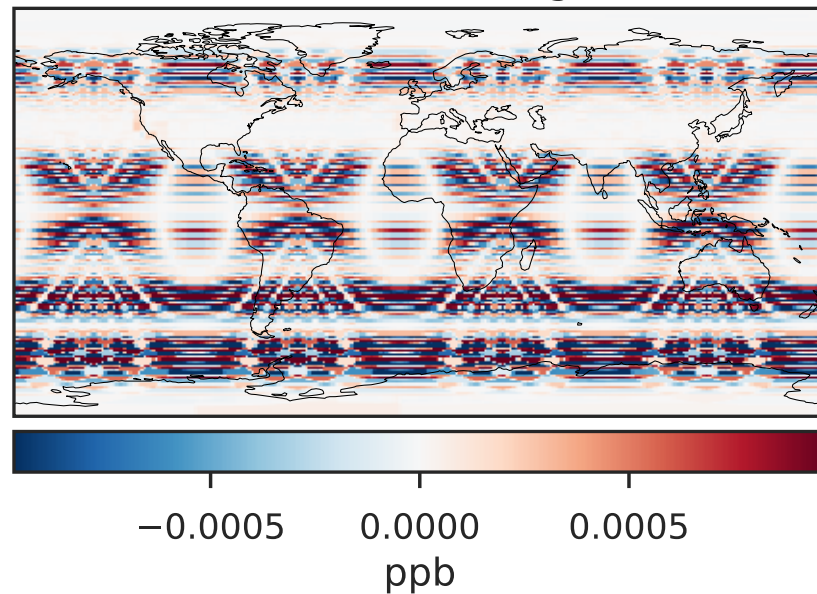
GCHP\_14.2.0 (Dev)  
c24



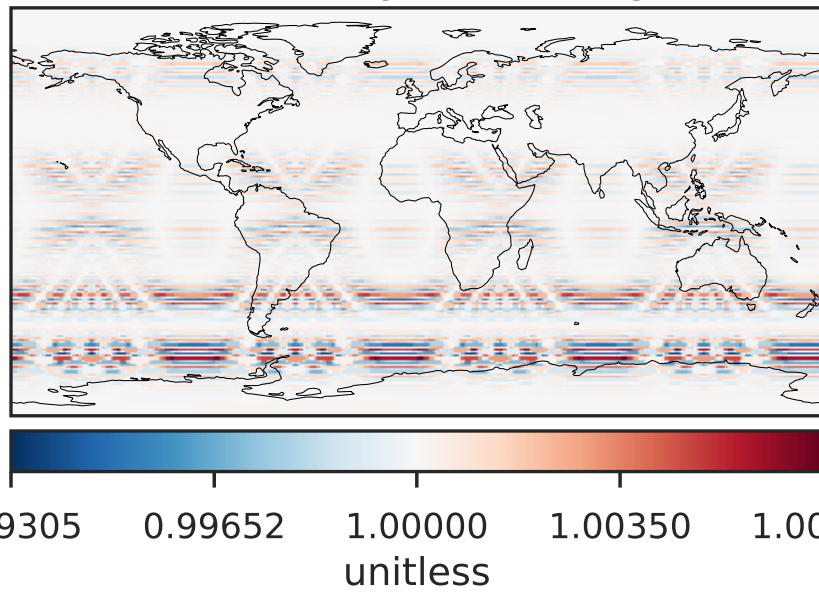
Difference (1x1.25)  
Dev - Ref, Dynamic Range



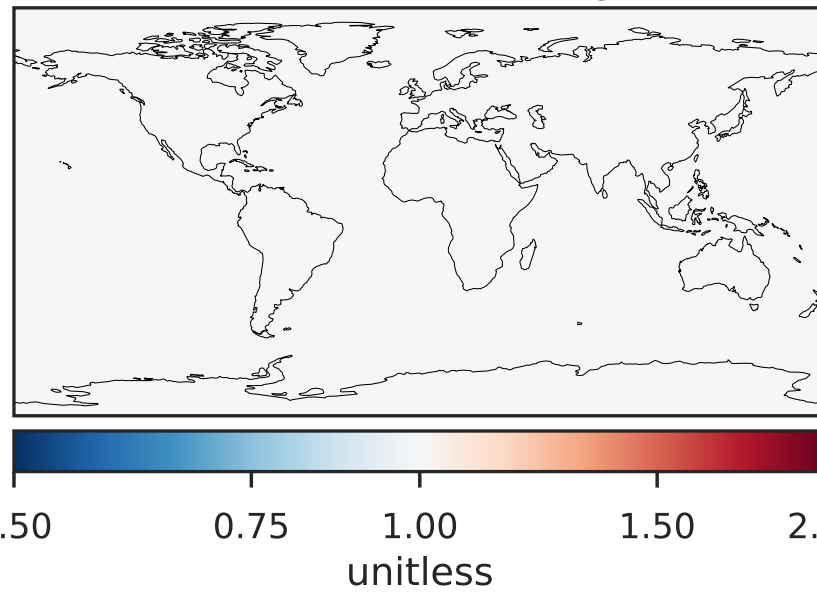
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

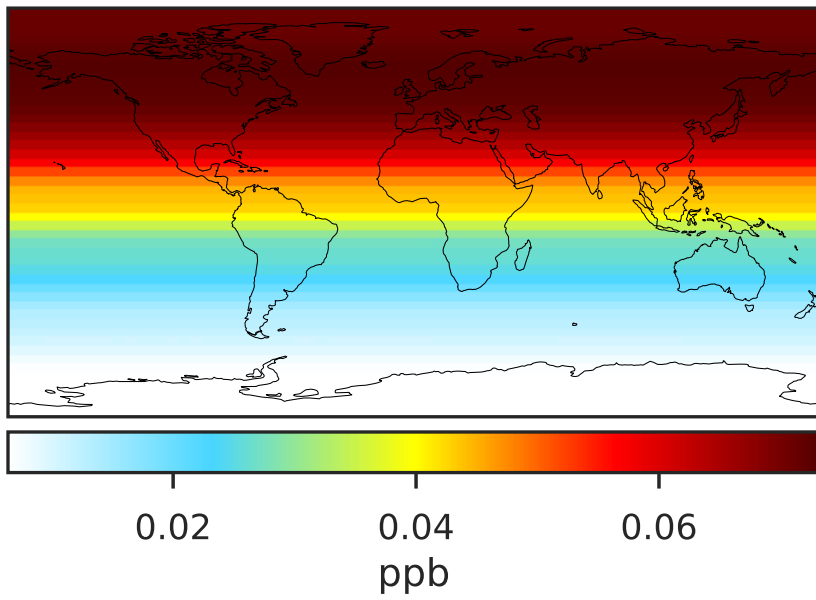


Ratio (1x1.25)  
Dev/Ref, Fixed Range

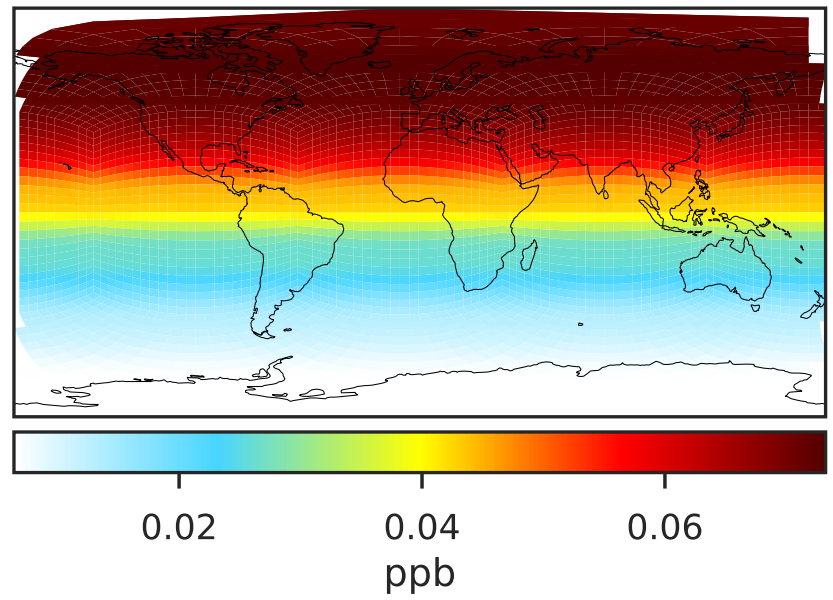


# SpeciesConcVV\_CH2Cl2 (Apr2019)

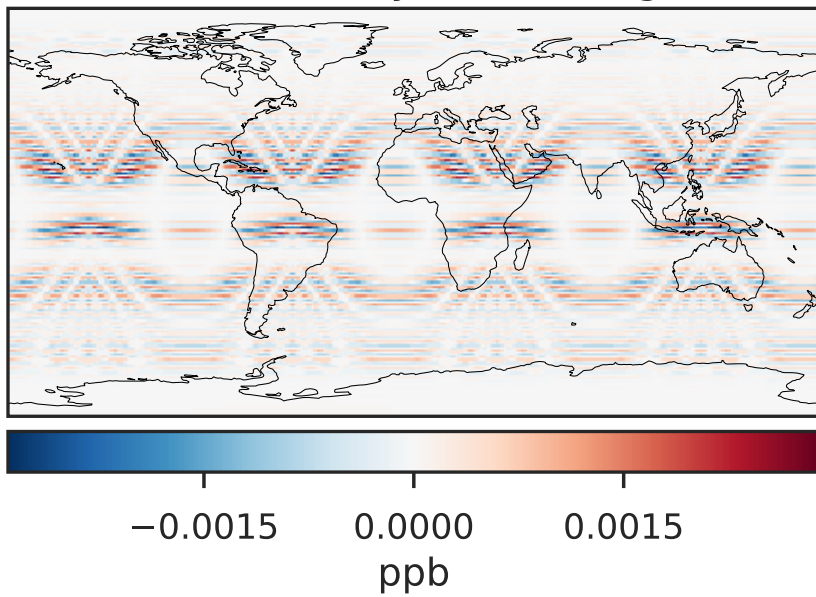
GCC\_14.2.0 (Ref)  
4.0x5.0



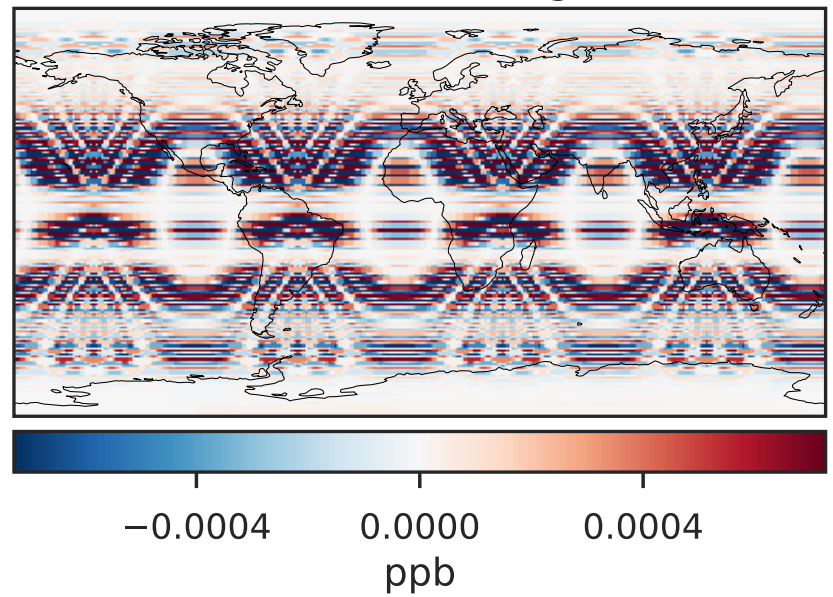
GCHP\_14.2.0 (Dev)  
c24



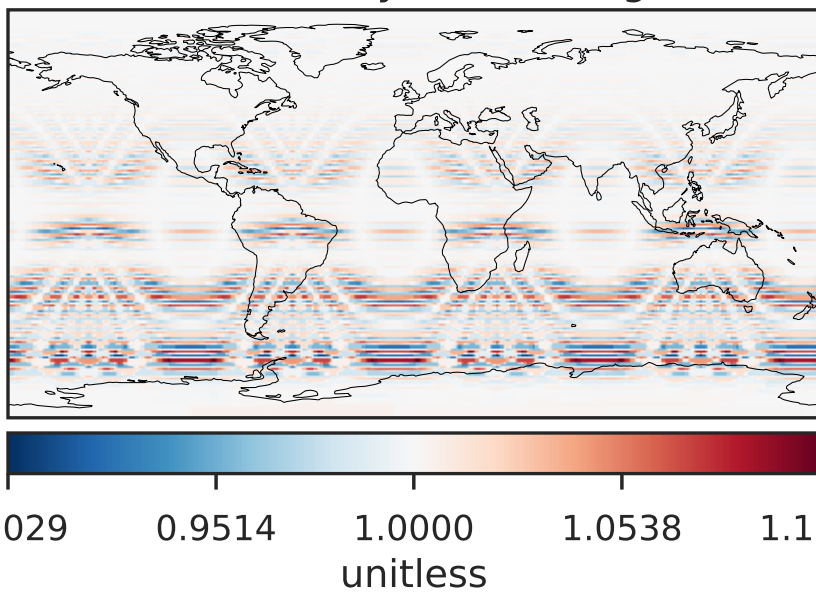
Difference (1x1.25)  
Dev - Ref, Dynamic Range



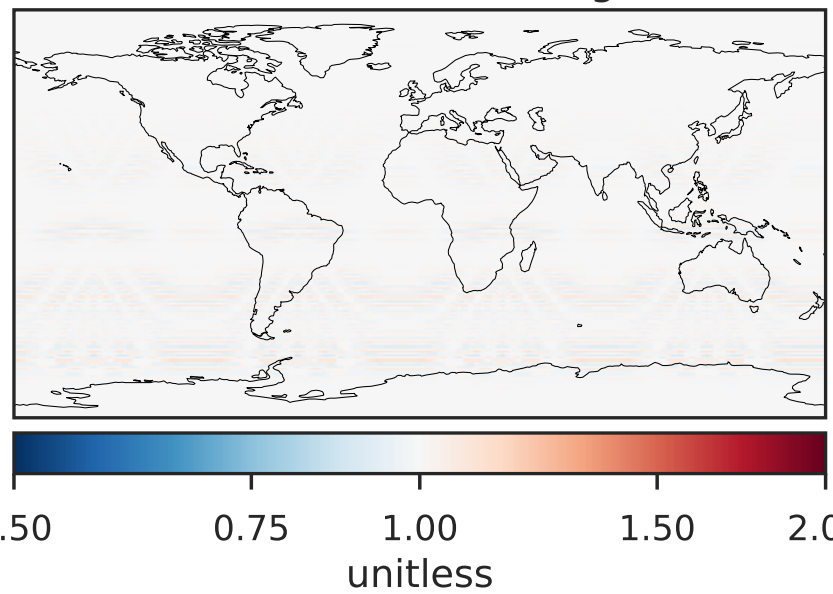
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

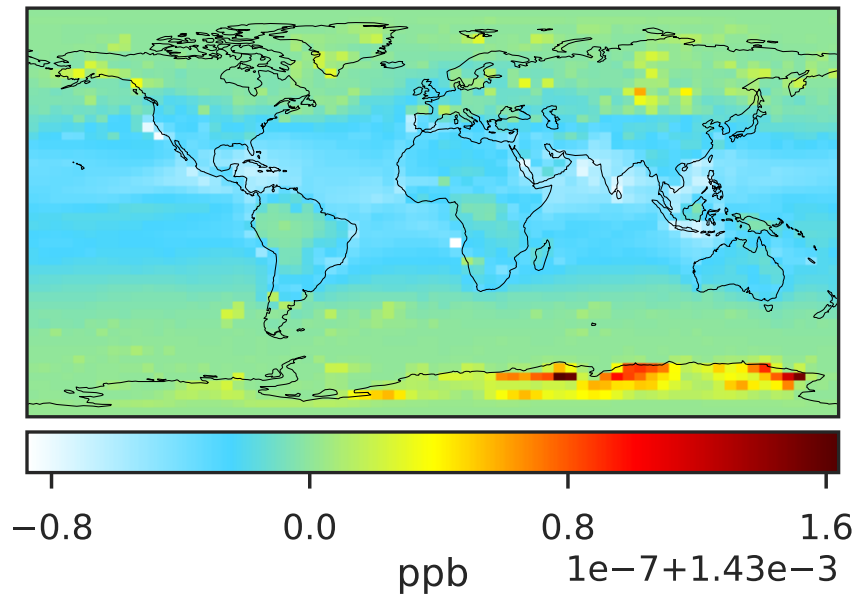


Ratio (1x1.25)  
Dev/Ref, Fixed Range

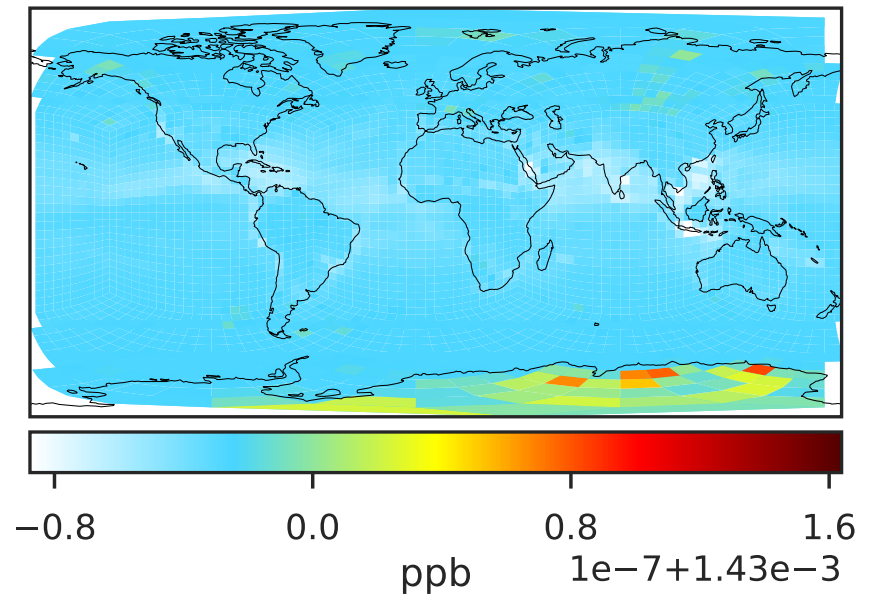


# SpeciesConcVV\_CH3CCI3 (Apr2019)

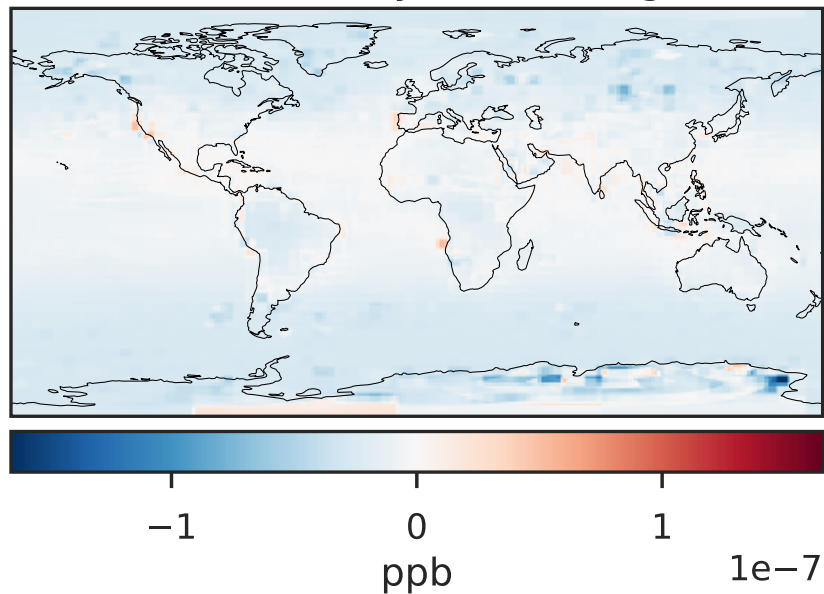
GCC\_14.2.0 (Ref)  
4.0x5.0



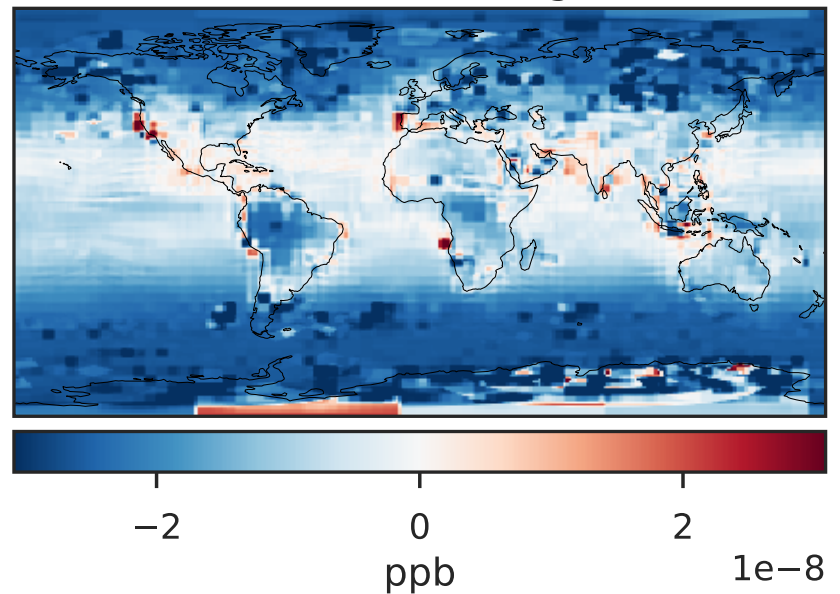
GCHP\_14.2.0 (Dev)  
c24



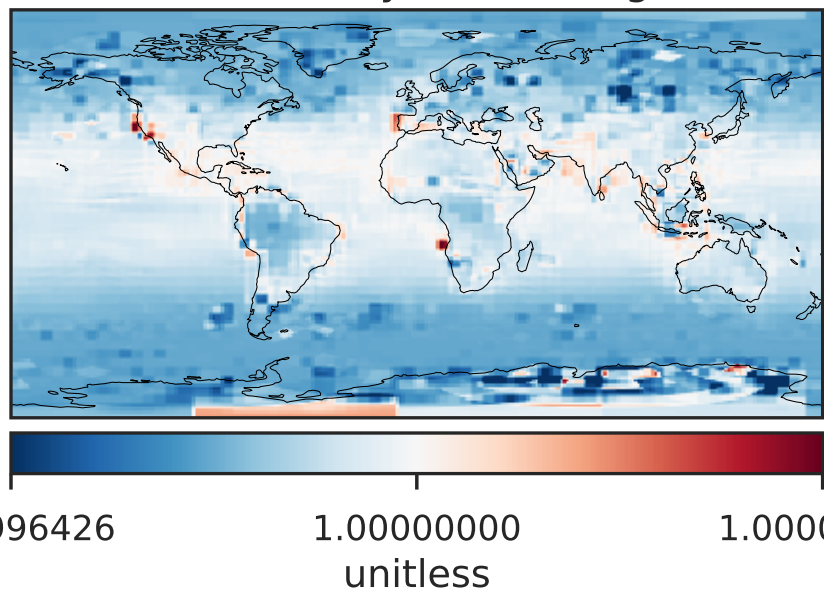
Difference (1x1.25)  
Dev - Ref, Dynamic Range



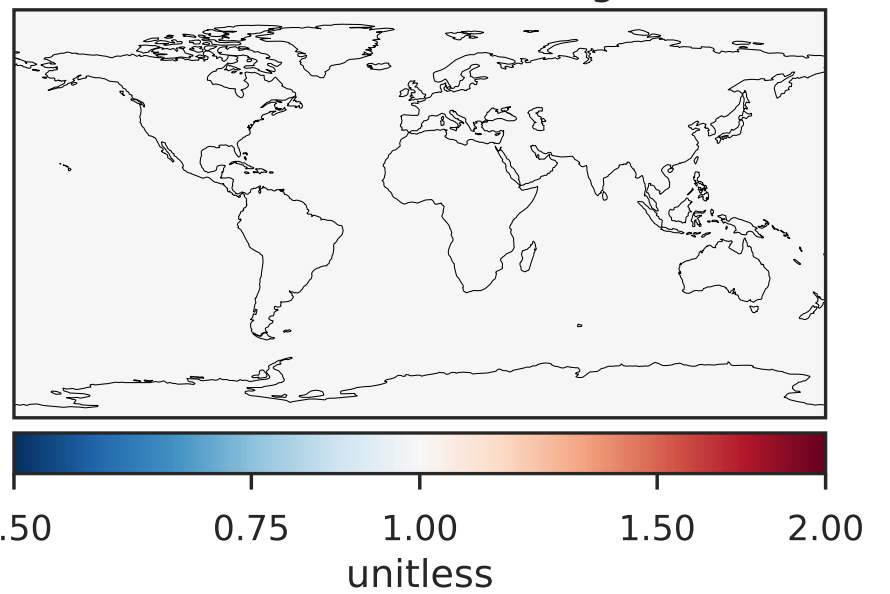
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

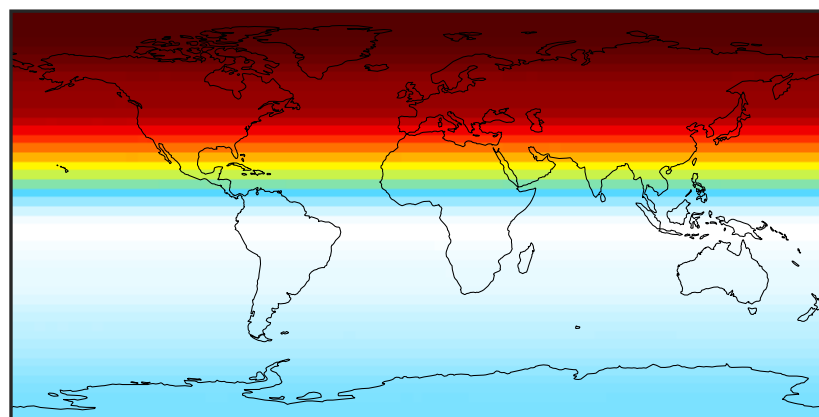


Ratio (1x1.25)  
Dev/Ref, Fixed Range



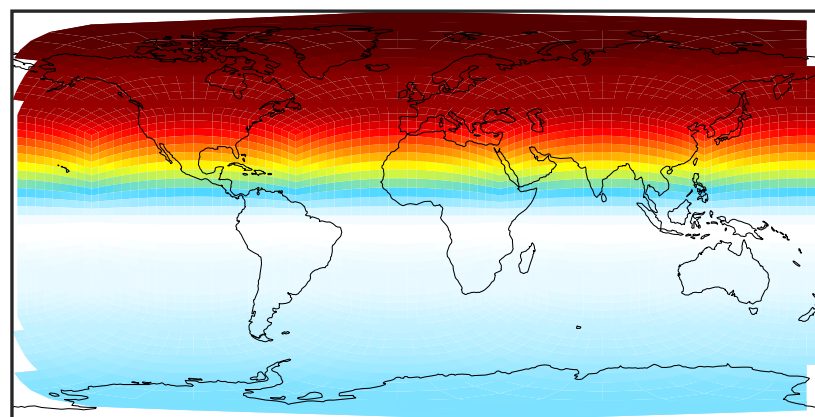
# SpeciesConcVV\_CHCl3 (Apr2019)

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



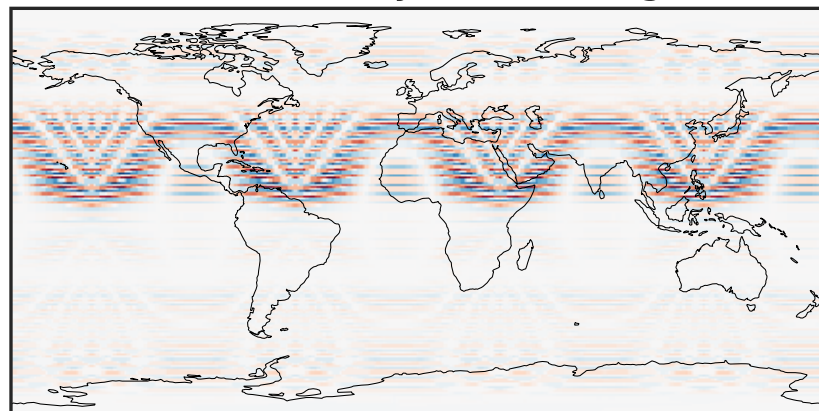
0.0090 0.0105 0.0120  
ppb

GCHP\_14.2.0 (Dev)  
c24



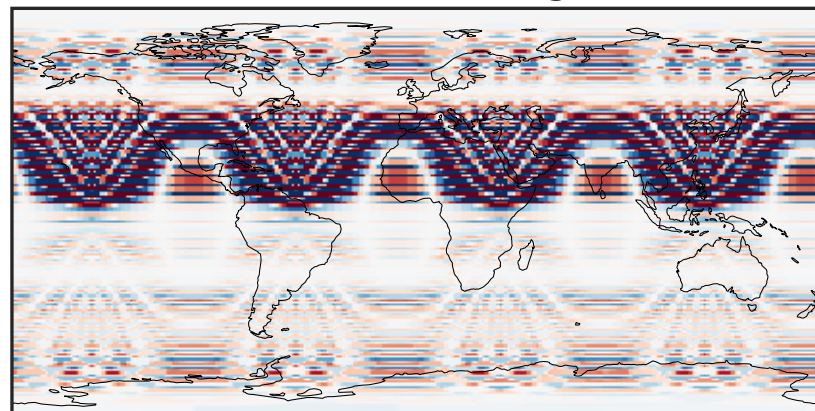
0.0090 0.0105 0.0120  
ppb

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



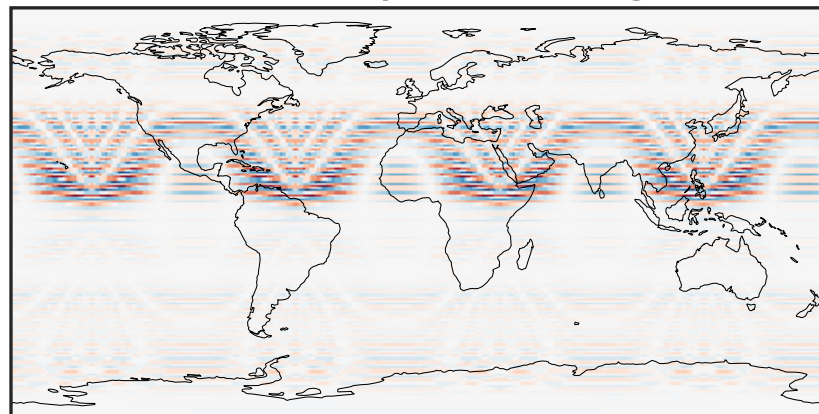
-0.00015 0.00000 0.00015  
ppb

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



-4 0 4  
ppb 1e-5

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



0.97325 0.98662 1.00000 1.01374 1.02749  
unitless

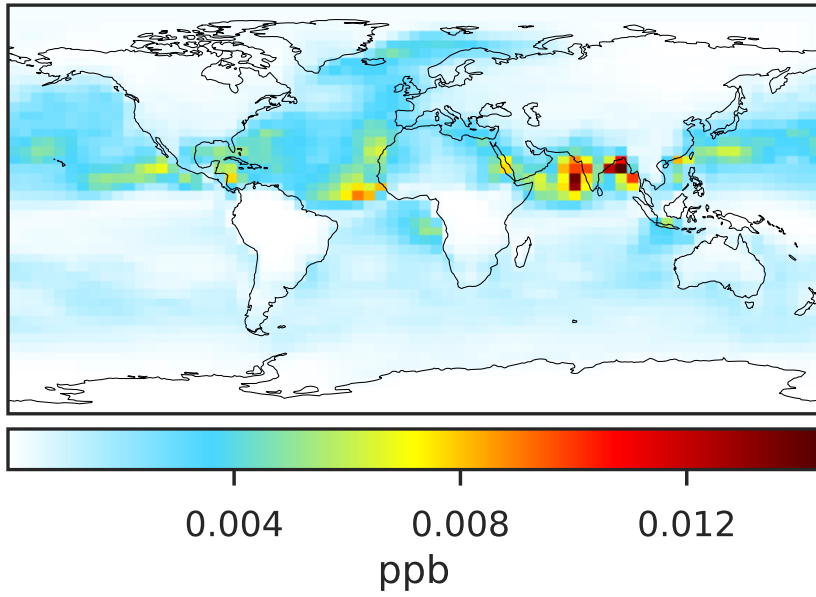
Ratio (1x1.25)  
Dev/Ref, Fixed Range



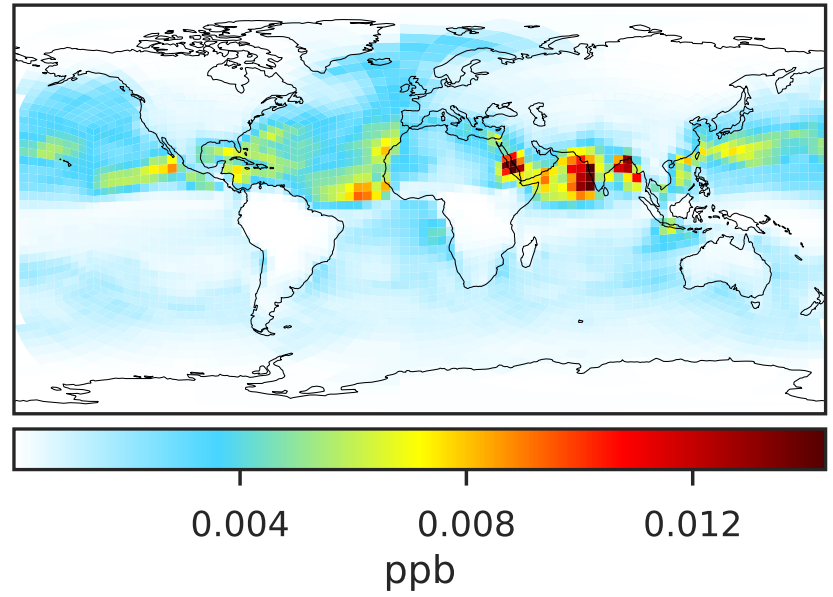
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_HOCl (Apr2019)

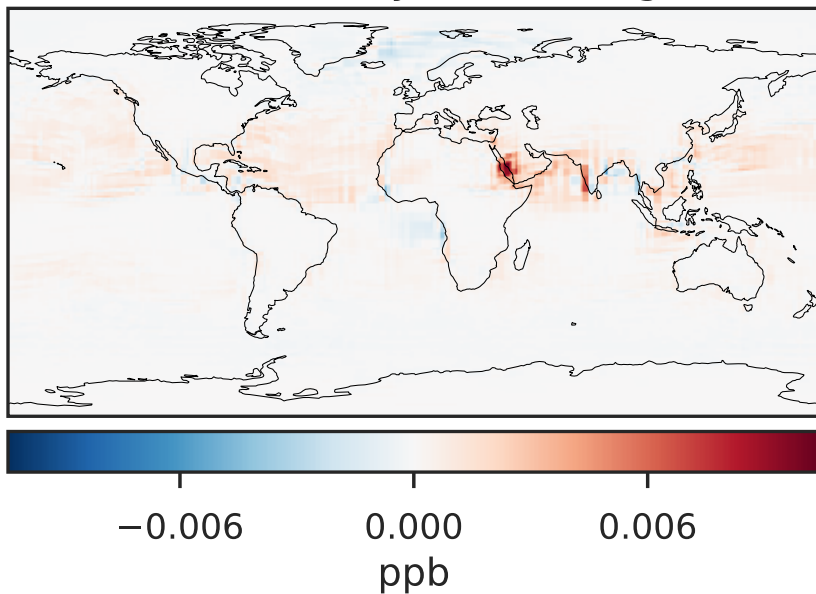
GCC\_14.2.0 (Ref)  
4.0x5.0



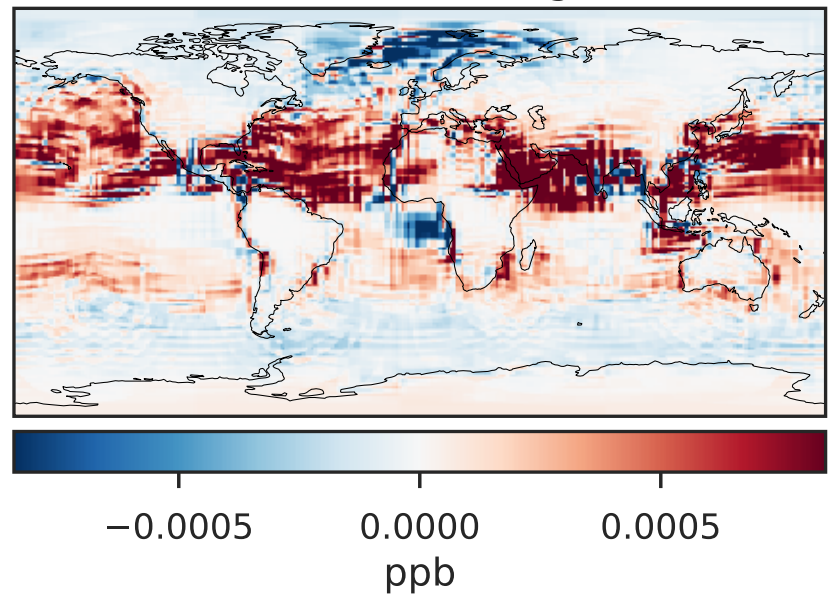
GCHP\_14.2.0 (Dev)  
c24



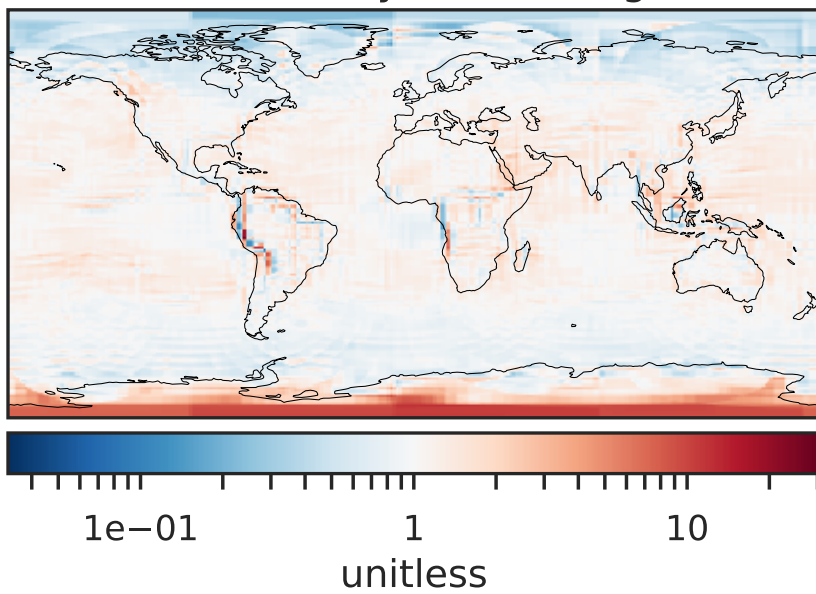
Difference (1x1.25)  
Dev - Ref, Dynamic Range



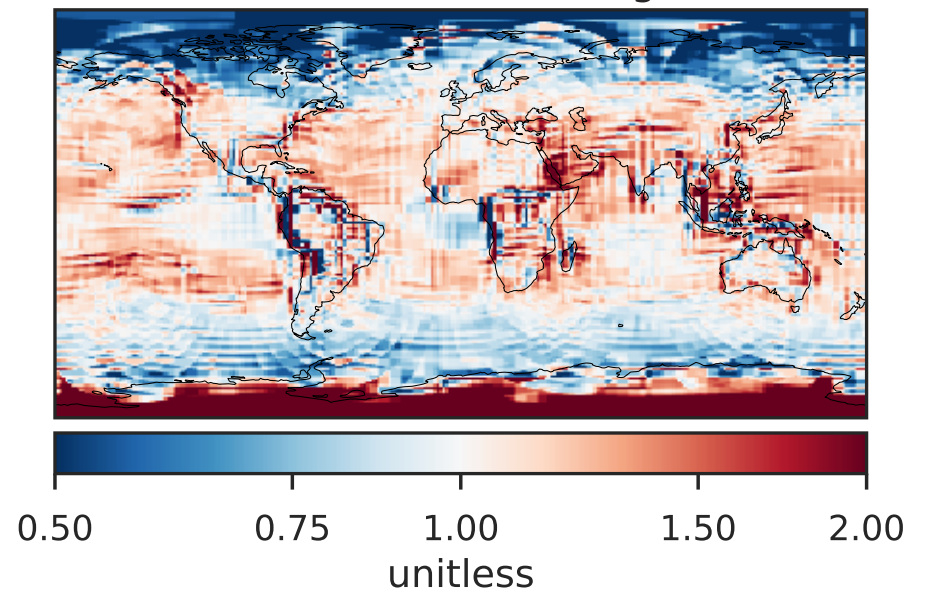
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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



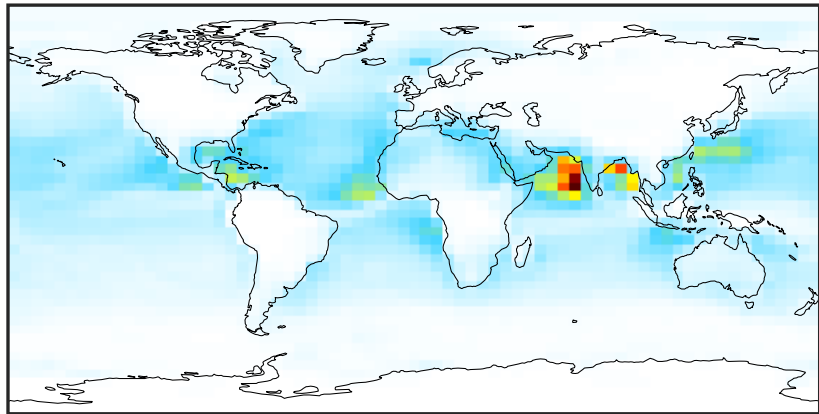
Ratio (1x1.25)  
Dev/Ref, Fixed Range





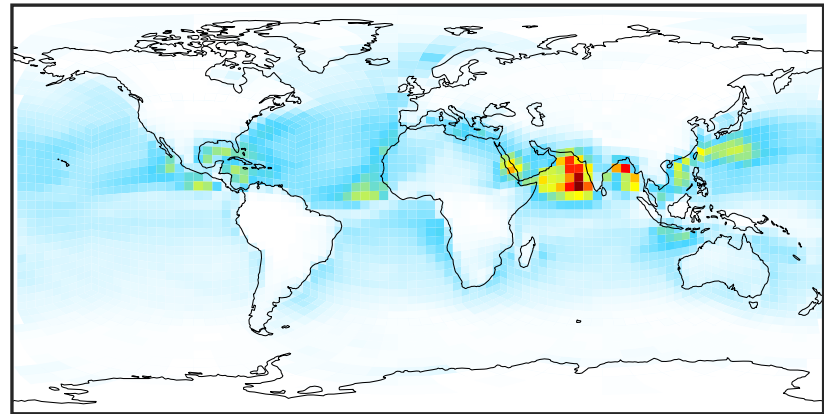
# SpeciesConcVW\_HCl (Apr2019)

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



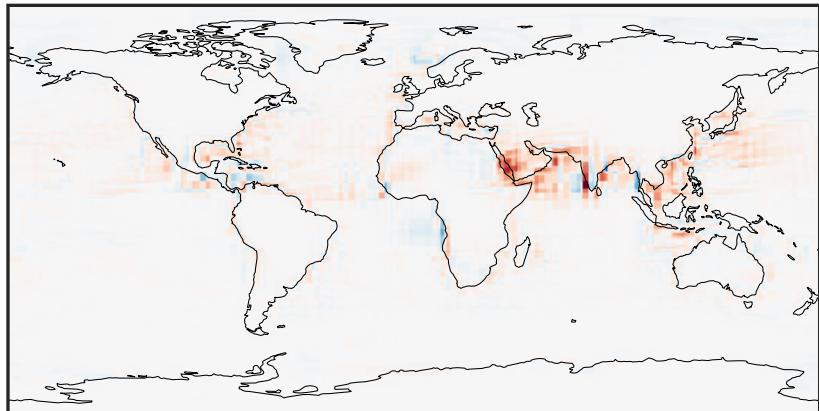
0.00 0.41 0.82 1.23 1.64  
ppb

GCHP\_14.2.0 (Dev)  
c24



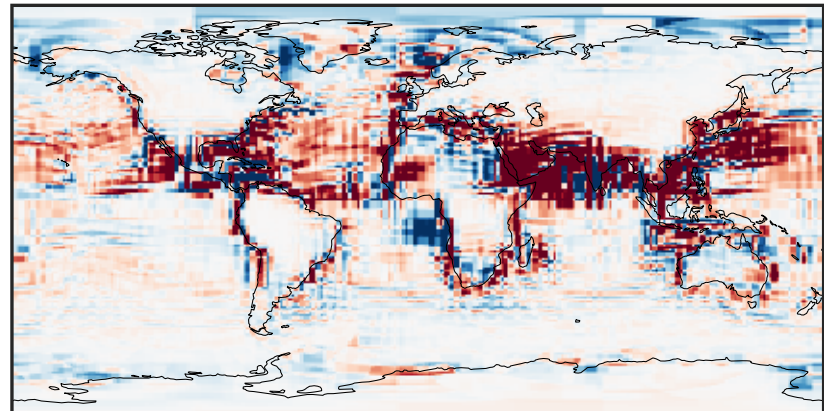
0.00 0.41 0.82 1.23 1.64  
ppb

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



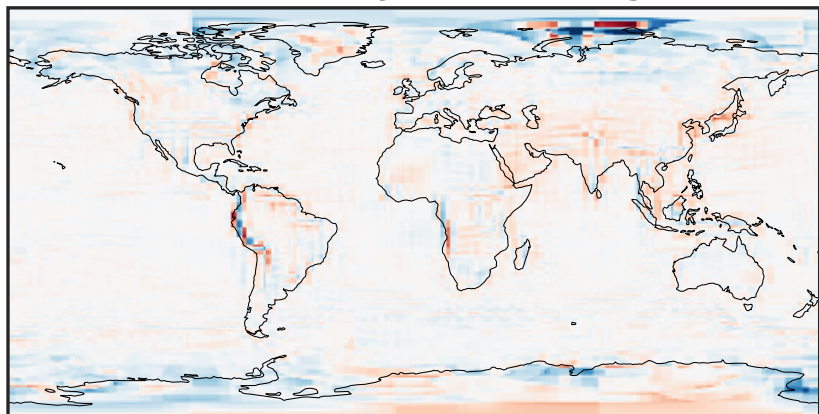
-0.618 -0.309 0.000 0.309 0.618  
ppb

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



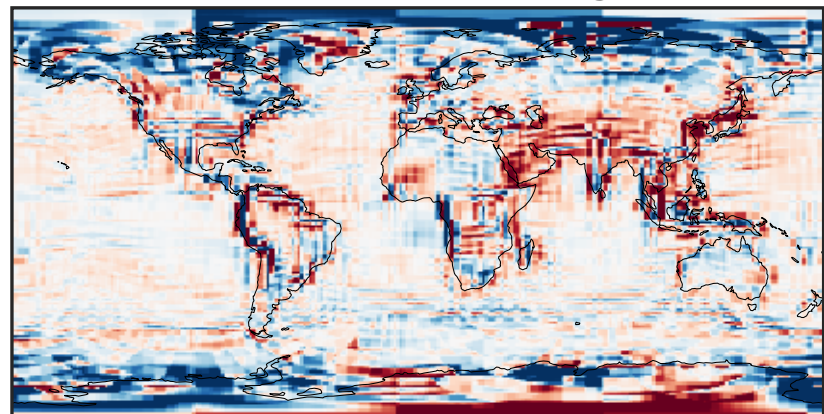
-0.025 0.000 0.025  
ppb

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



1e-01 1 10  
unitless

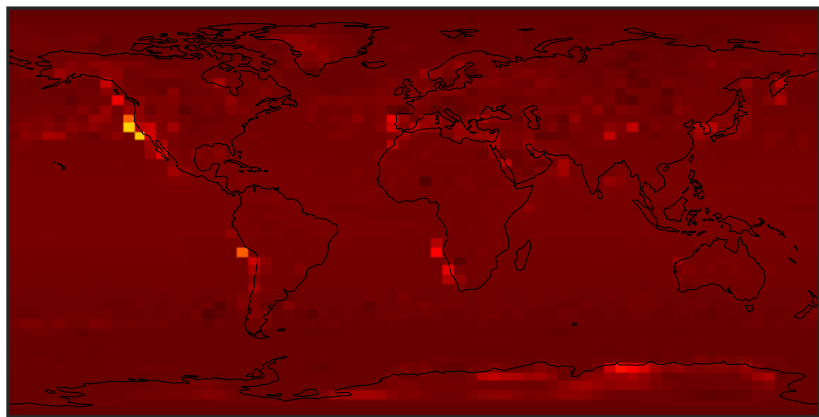
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_Halons (Apr2019)

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



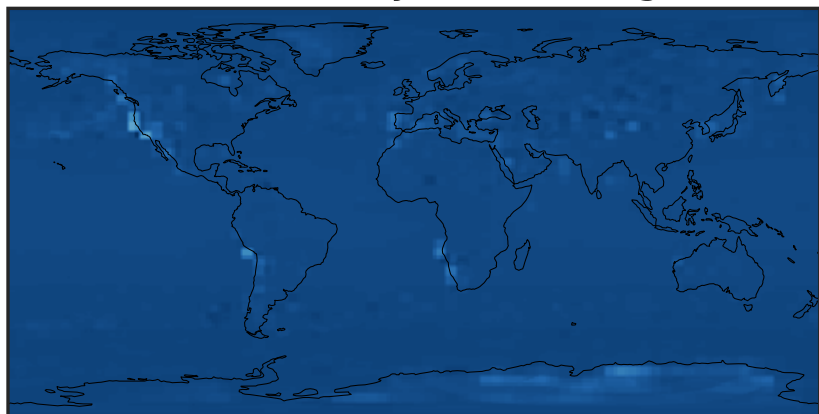
0.006979760 0.006979840 0.006979920 0.006980000  
ppb

GCHP\_14.2.0 (Dev)  
c24



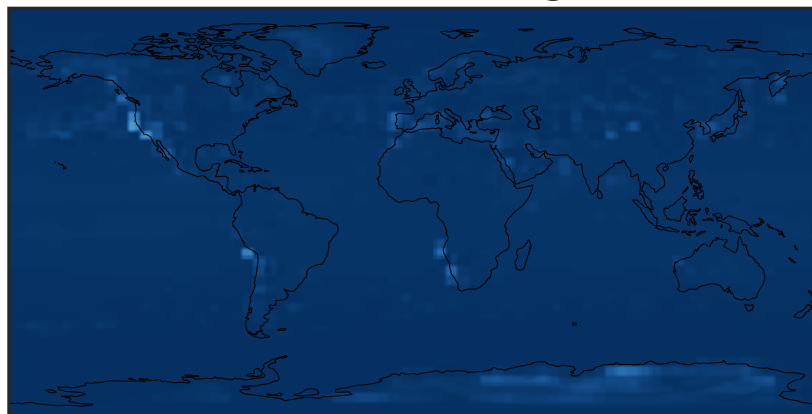
0.006979760 0.006979840 0.006979920 0.006980000  
ppb

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



-2 0 2  
ppb  $1e-7$

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



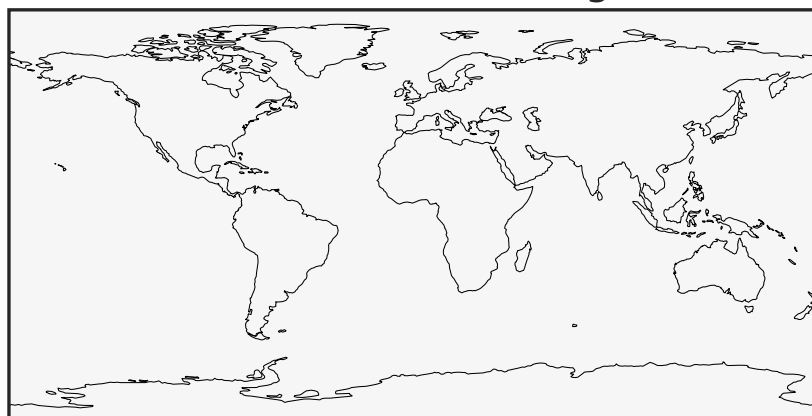
-2 0 2  
ppb  $1e-7$

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



0.99997508 1.0000000 1.00002492  
unitless

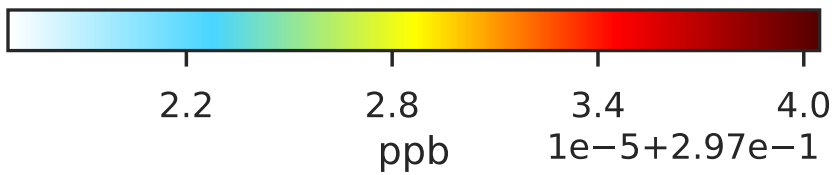
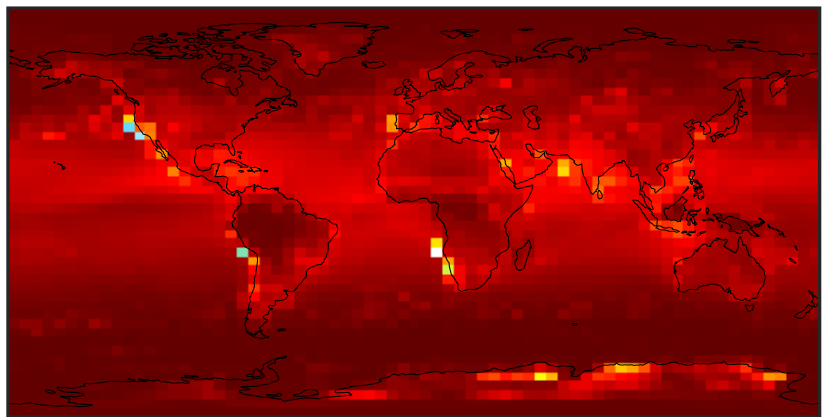
Ratio (1x1.25)  
Dev/Ref, Fixed Range



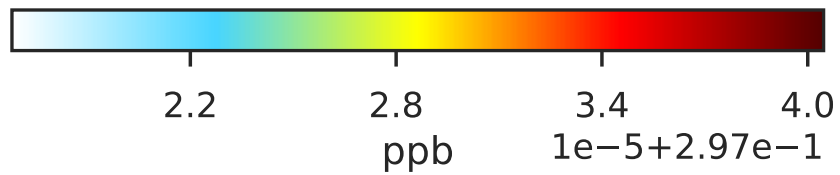
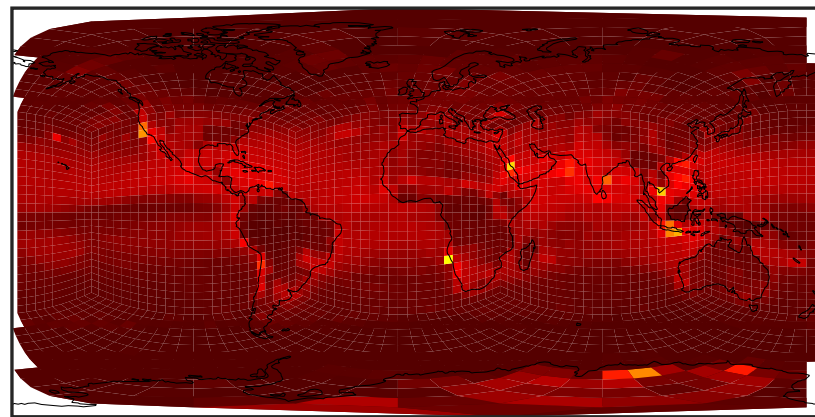
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_HCFCs (Apr2019)

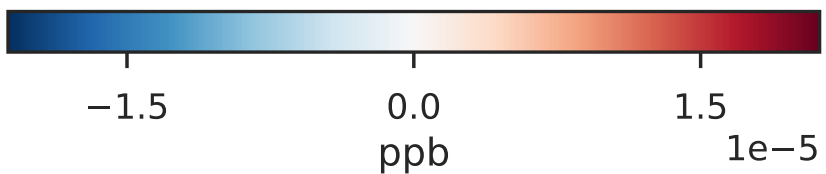
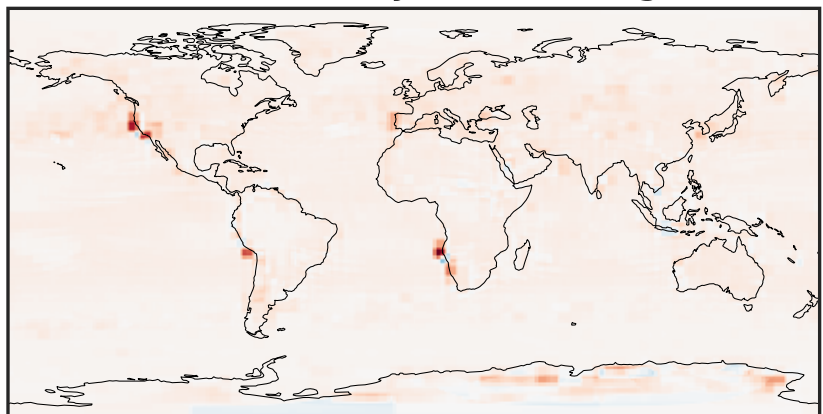
GCC\_14.2.0 (Ref)  
4.0x5.0



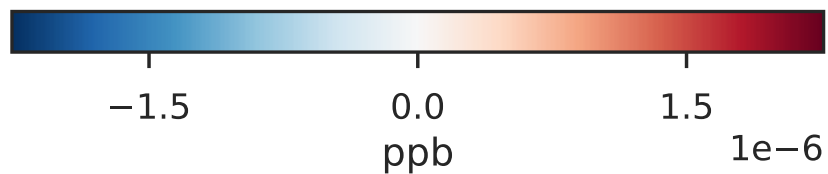
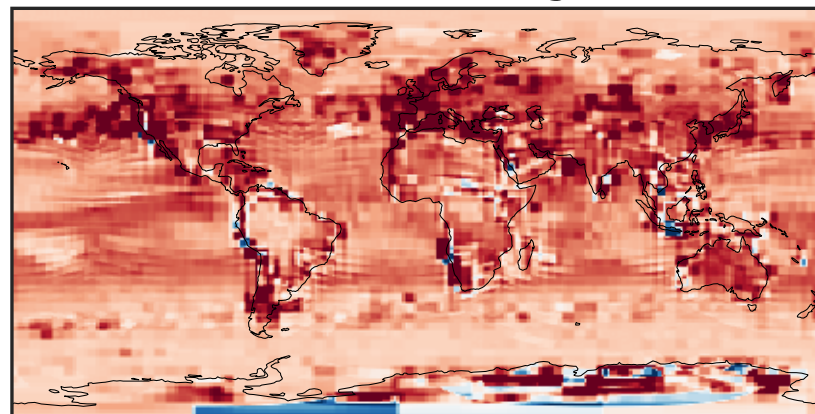
GCHP\_14.2.0 (Dev)  
c24



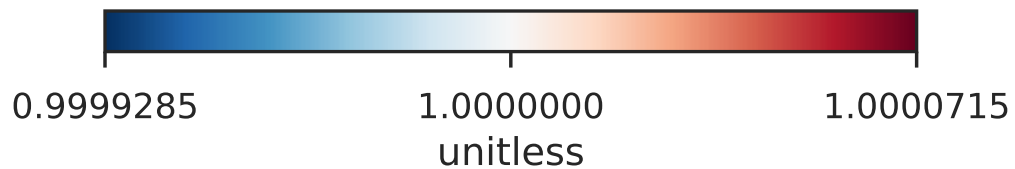
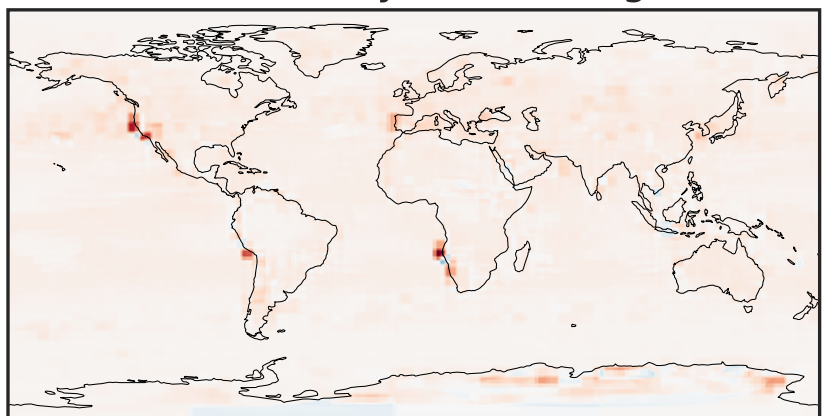
Difference (1x1.25)  
Dev - Ref, Dynamic Range



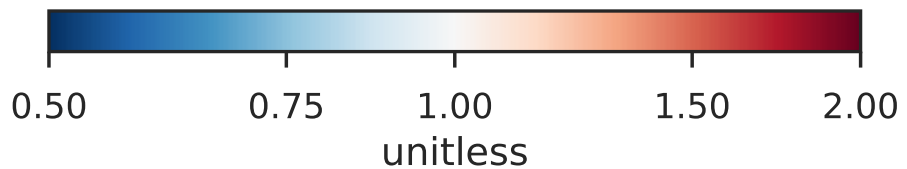
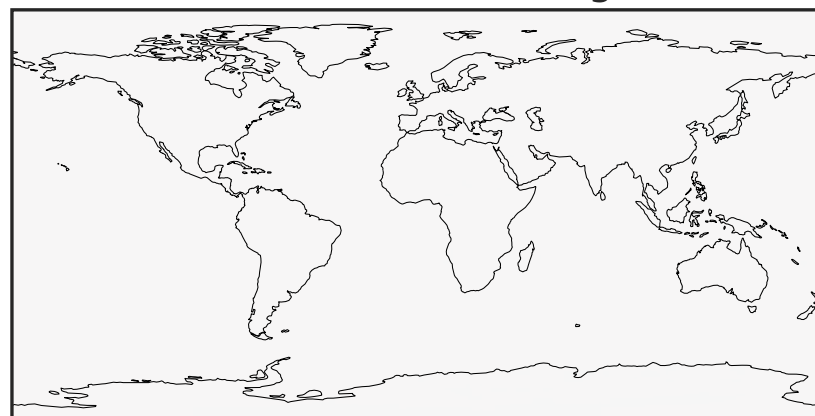
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

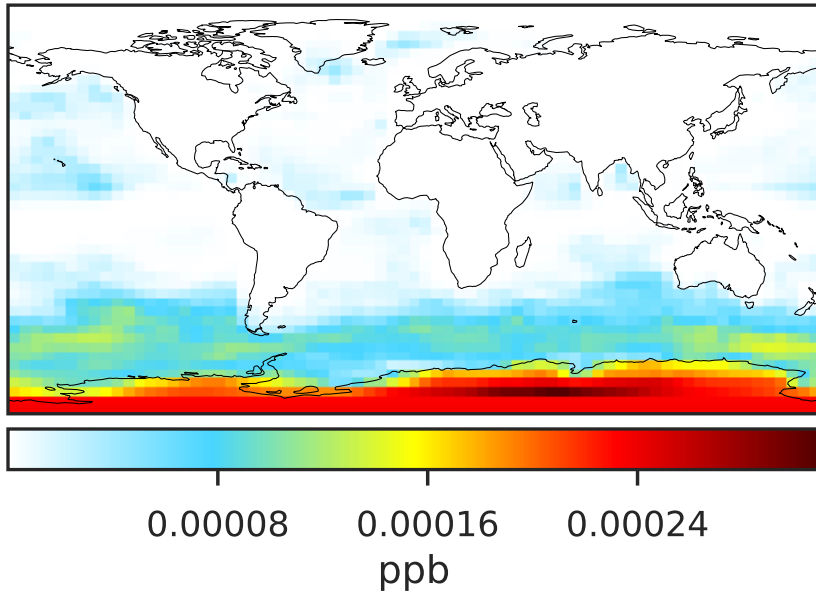


Ratio (1x1.25)  
Dev/Ref, Fixed Range

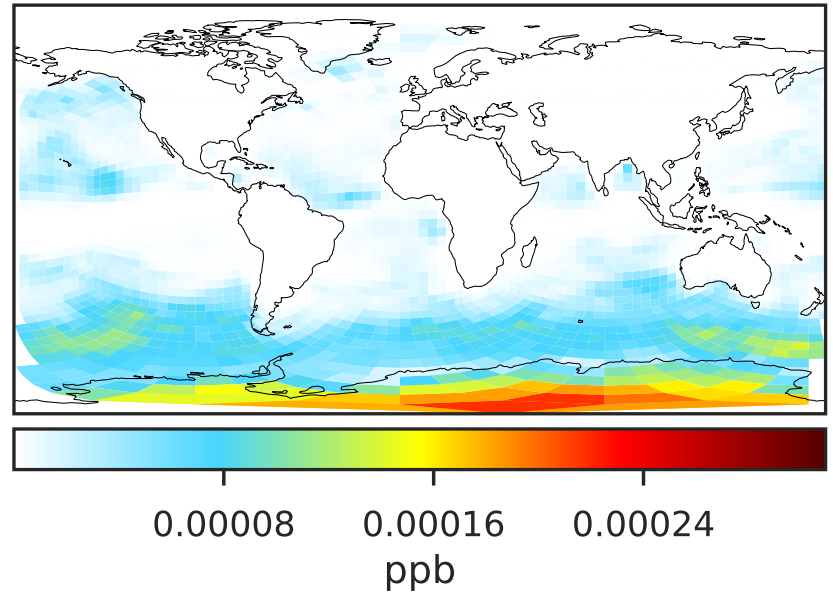


# SpeciesConcVV\_OCIO (Apr2019)

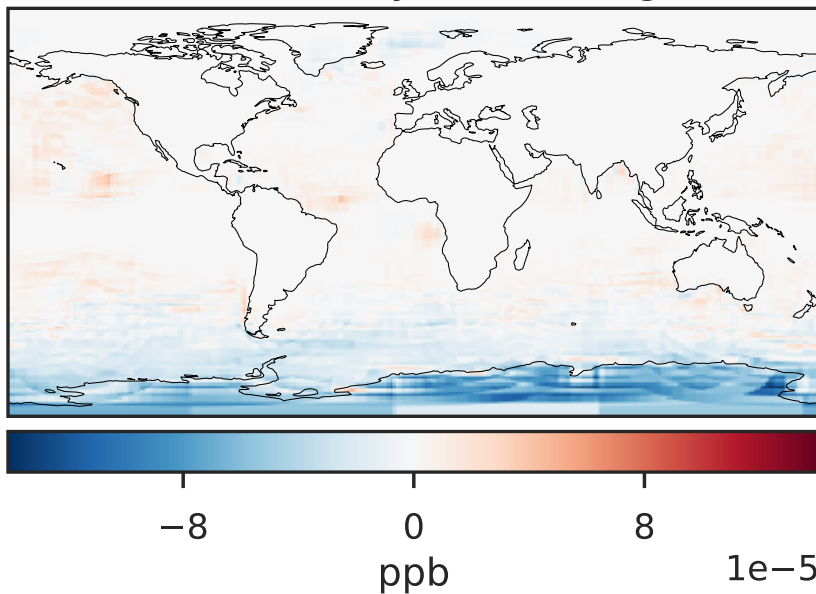
GCC\_14.2.0 (Ref)  
4.0x5.0



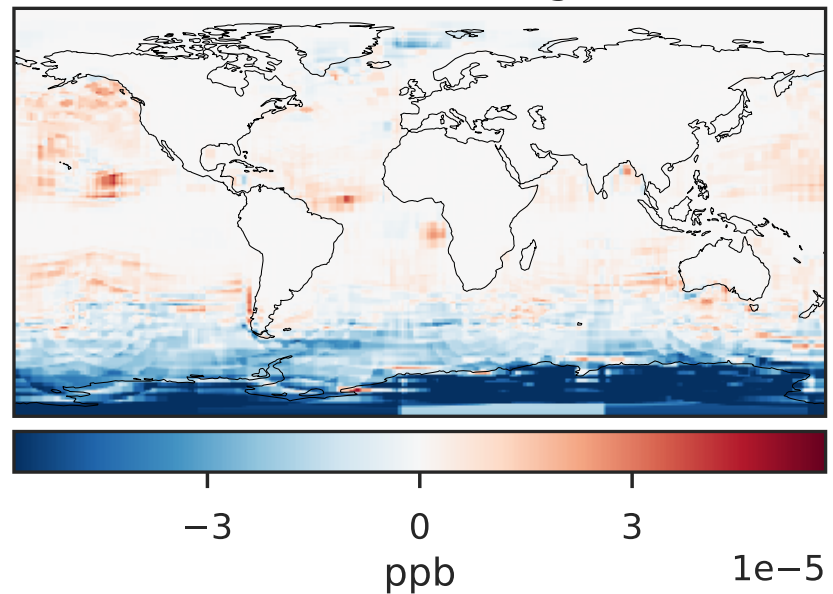
GCHP\_14.2.0 (Dev)  
c24



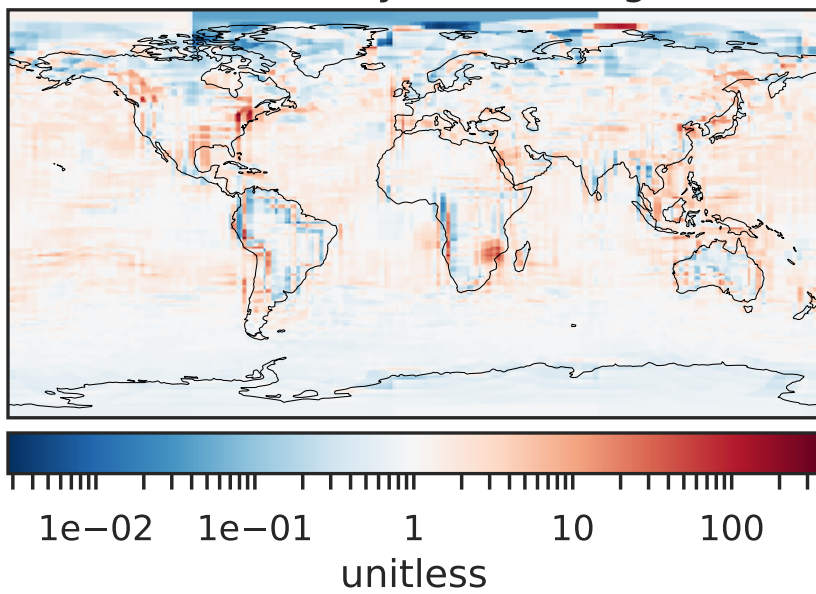
Difference (1x1.25)  
Dev - Ref, Dynamic Range



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



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



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

