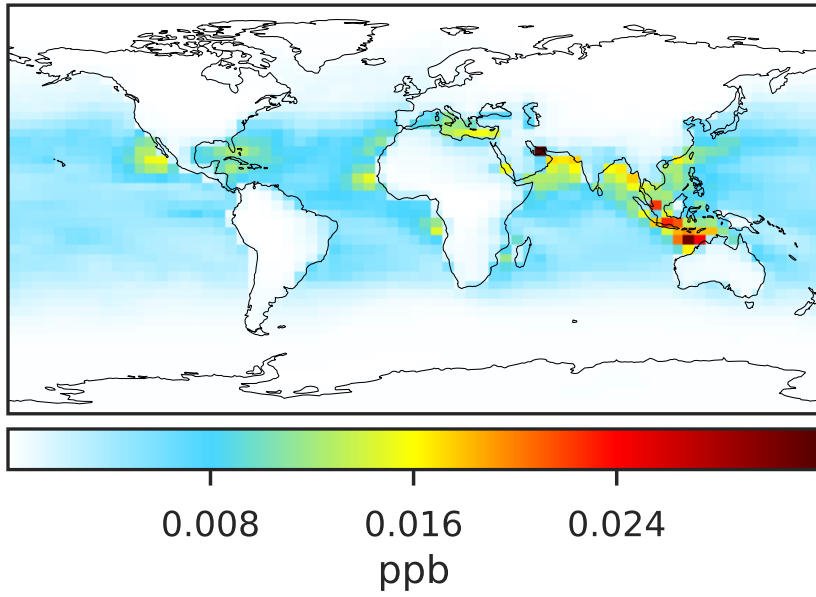
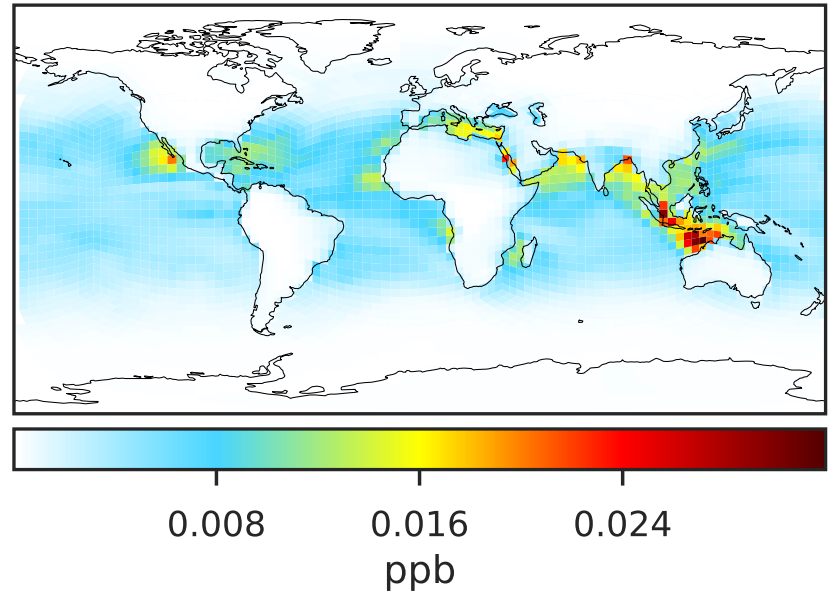


# SpeciesConcVV\_Iy (Oct2019)

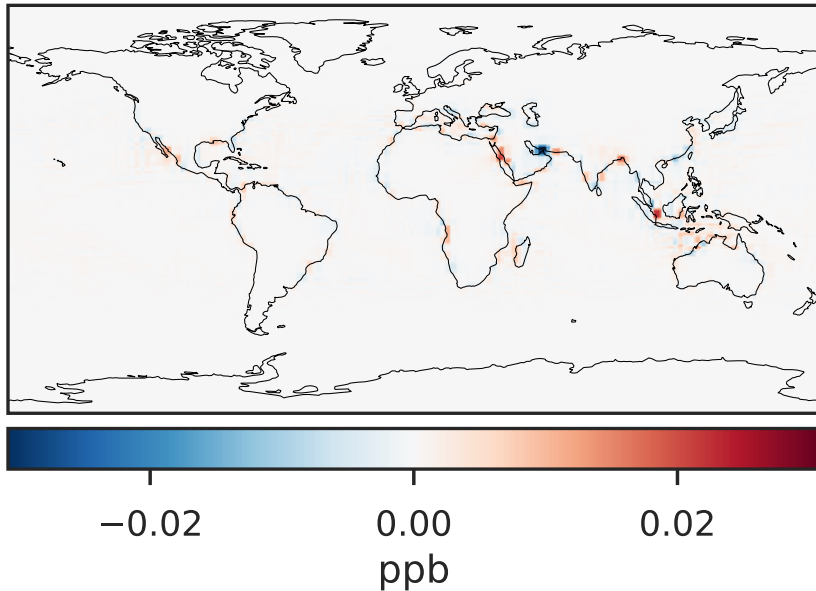
GCC\_14.2.0 (Ref)  
4.0x5.0



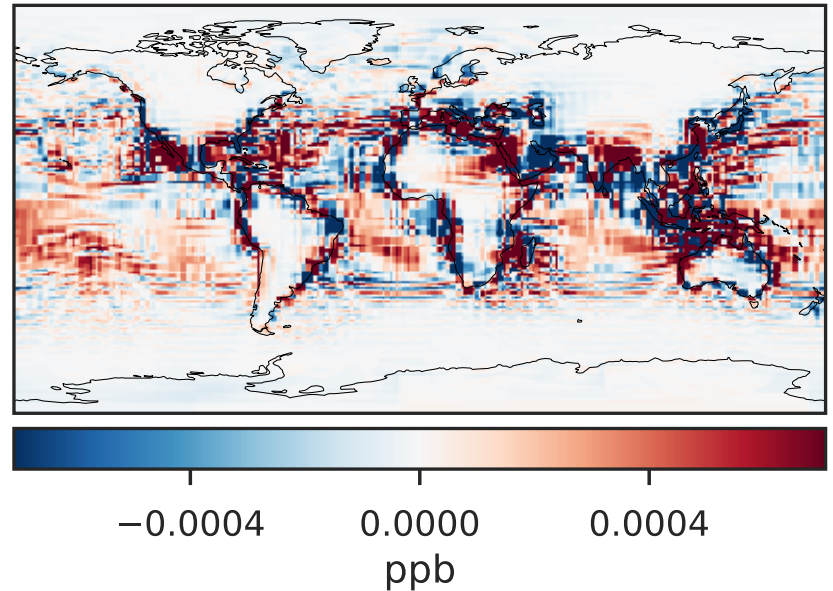
GCHP\_14.2.0 (Dev)  
c24



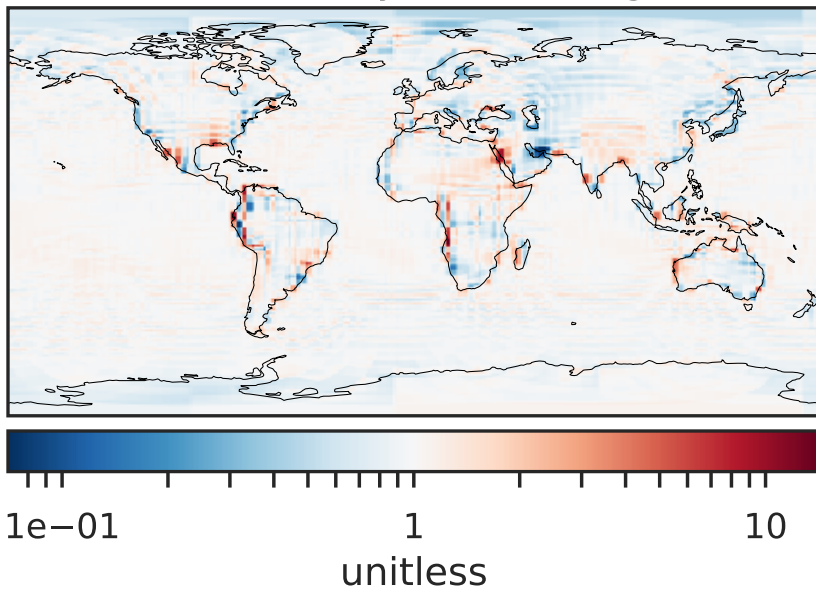
Difference (1x1.25)  
Dev - Ref, Dynamic Range



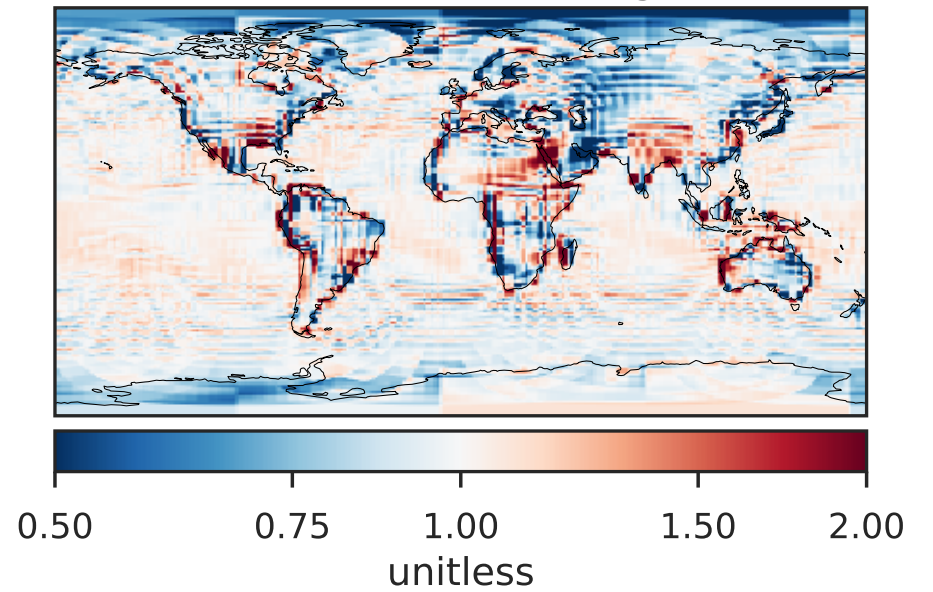
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

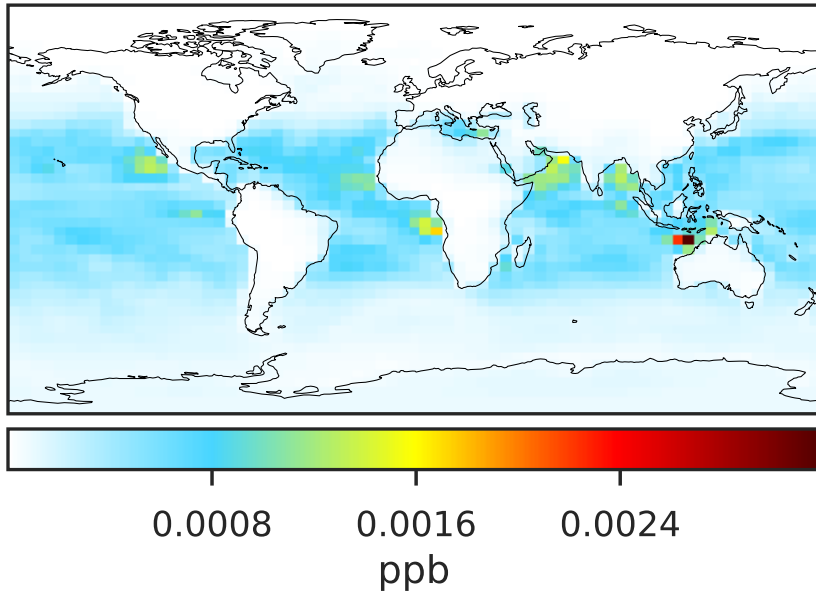


Ratio (1x1.25)  
Dev/Ref, Fixed Range

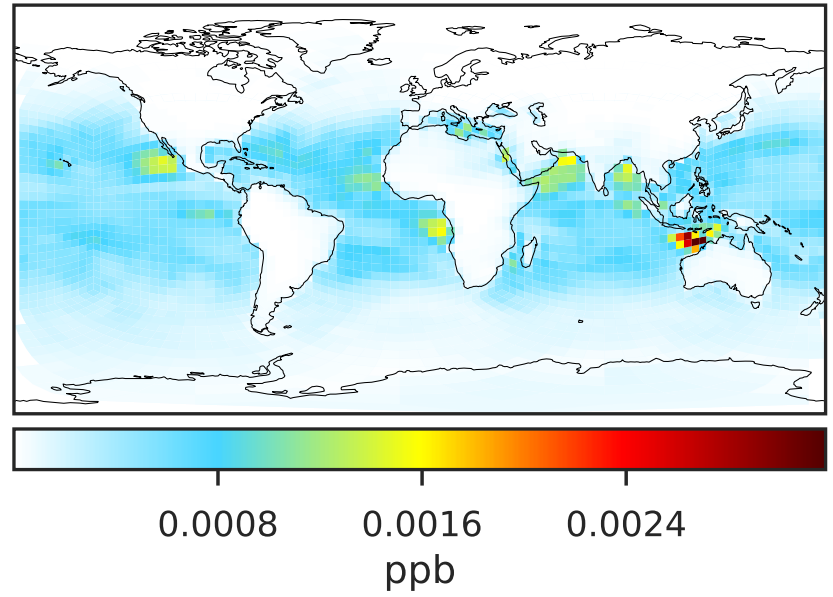


# SpeciesConcVV\_IxOy (Oct2019)

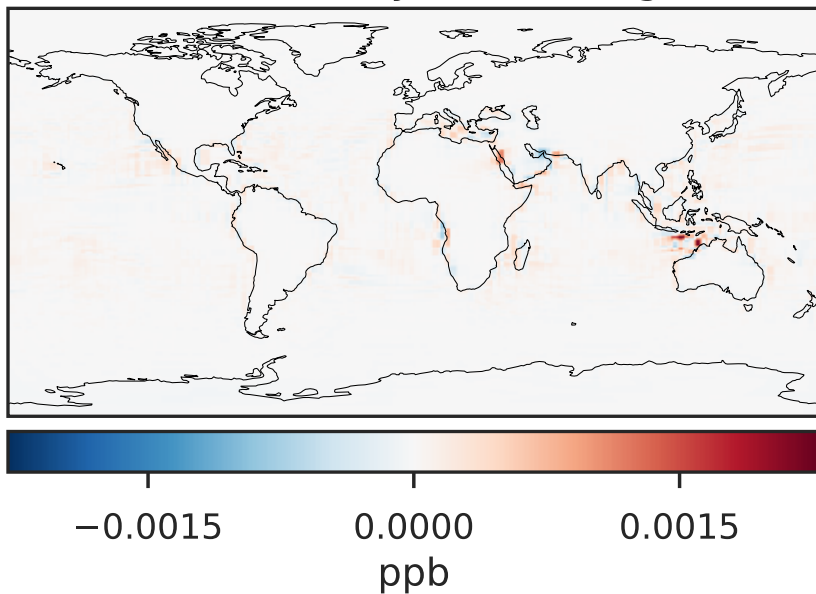
GCC\_14.2.0 (Ref)  
4.0x5.0



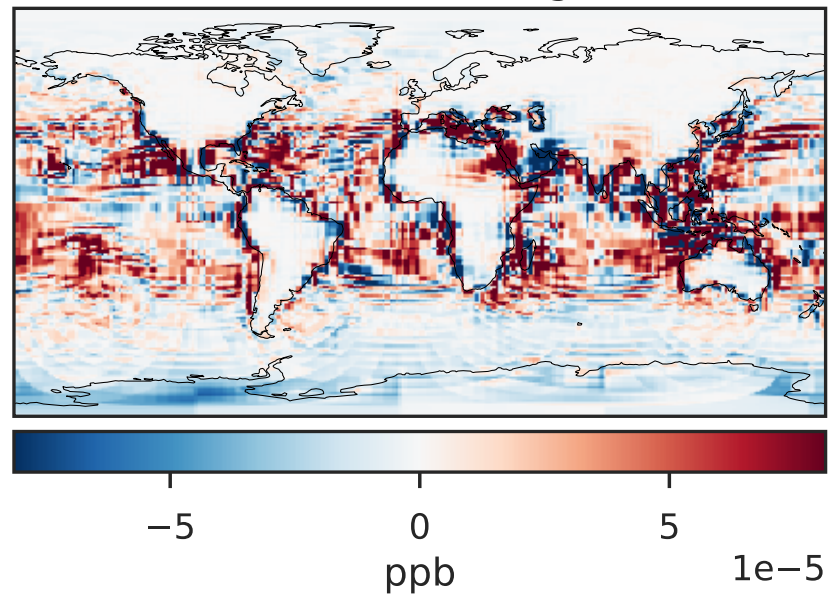
GCHP\_14.2.0 (Dev)  
c24



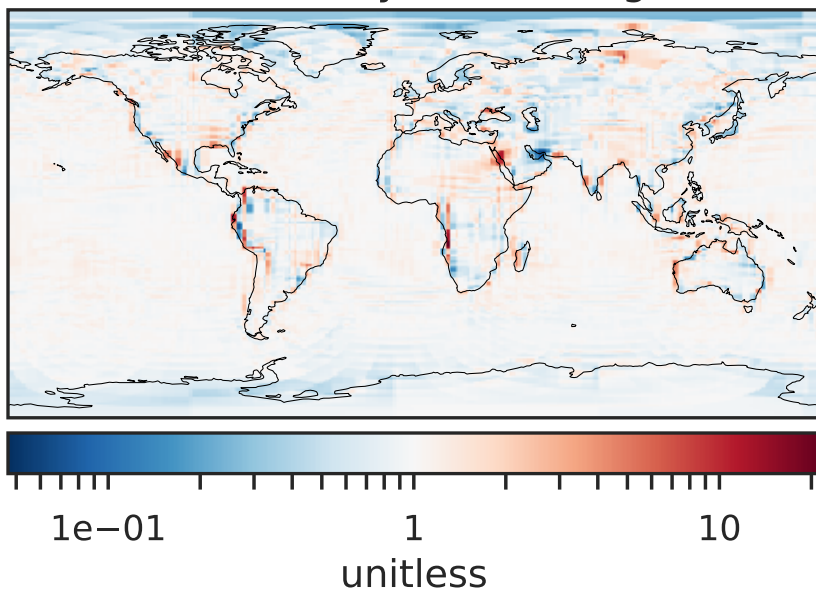
Difference (1x1.25)  
Dev - Ref, Dynamic Range



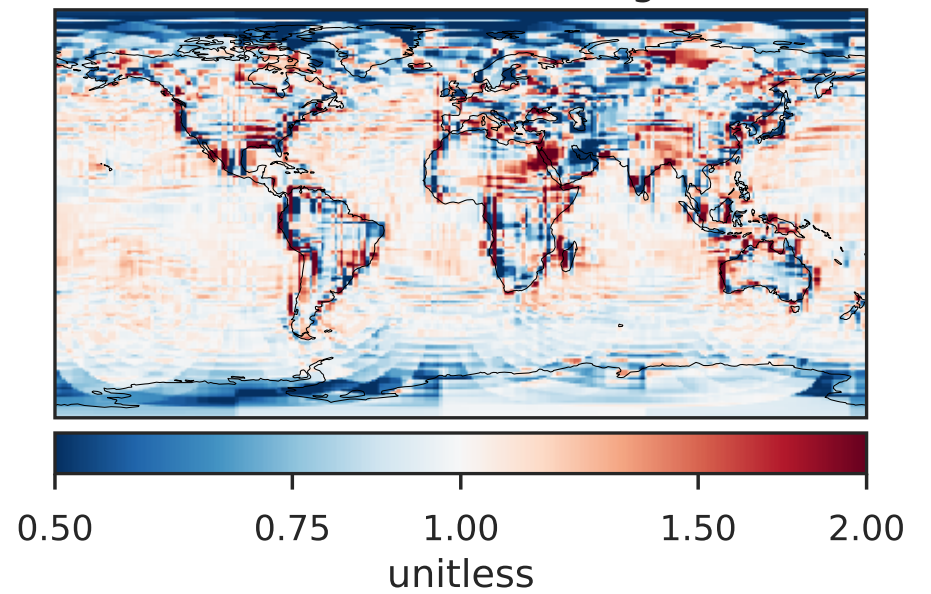
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

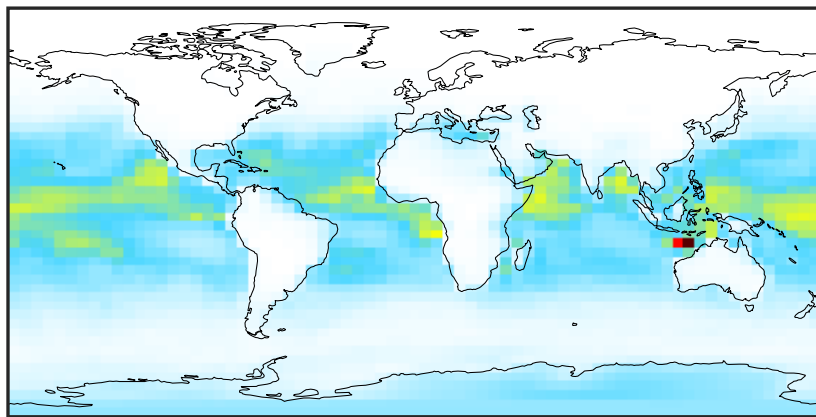


Ratio (1x1.25)  
Dev/Ref, Fixed Range



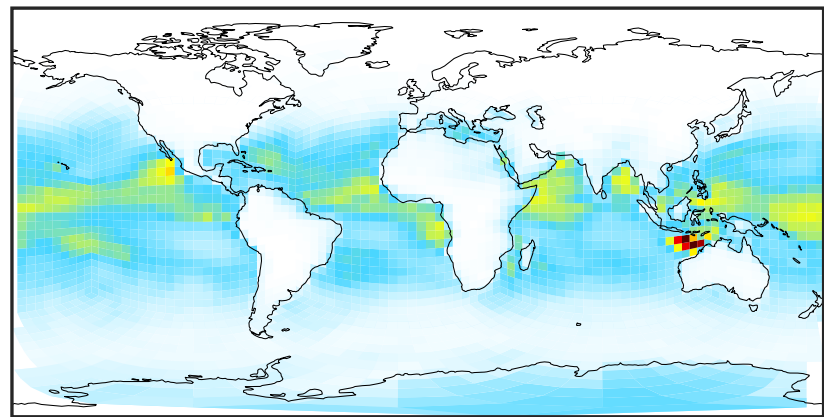
# SpeciesConcVW\_I (Oct2019)

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



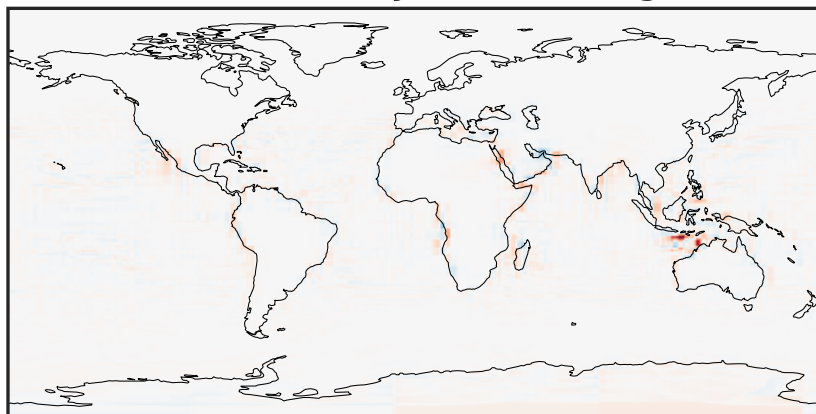
0.00015 0.00030 0.00045  
ppb

GCHP\_14.2.0 (Dev)  
c24



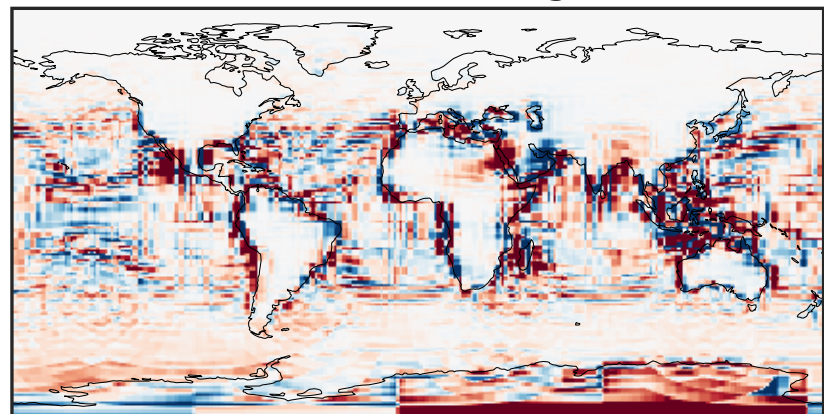
0.00015 0.00030 0.00045  
ppb

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



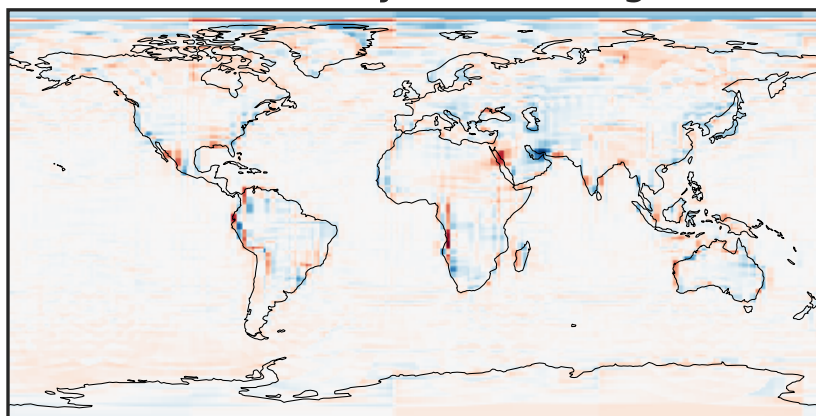
-0.00025 0.00000 0.00025  
ppb

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



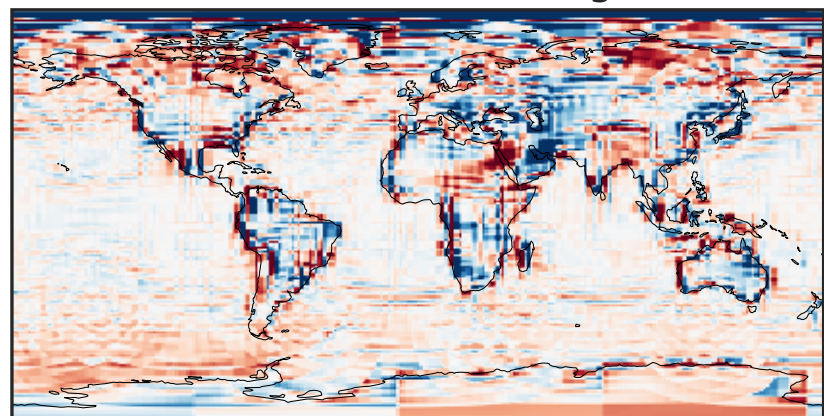
-1.5 0.0 1.5  
ppb  $1e-5$

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



$1e-01$  1 10  
unitless

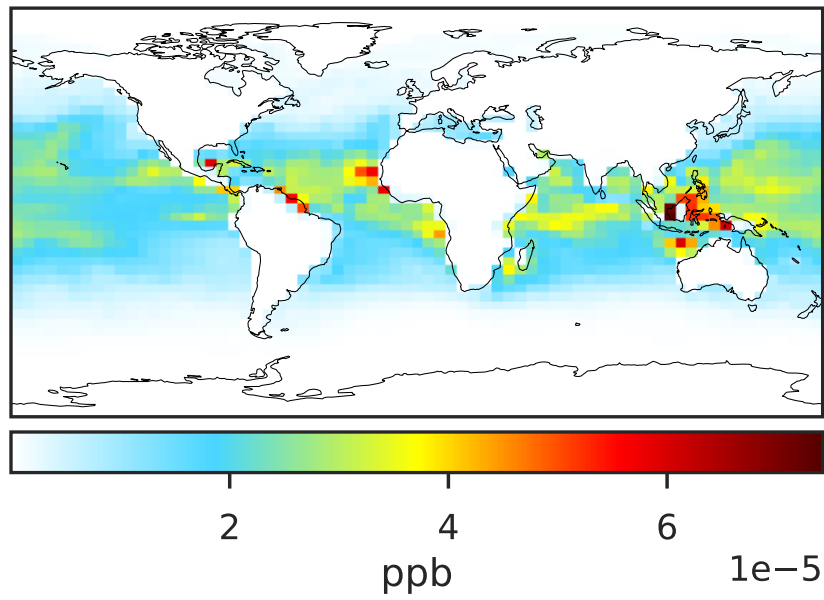
Ratio (1x1.25)  
Dev/Ref, Fixed Range



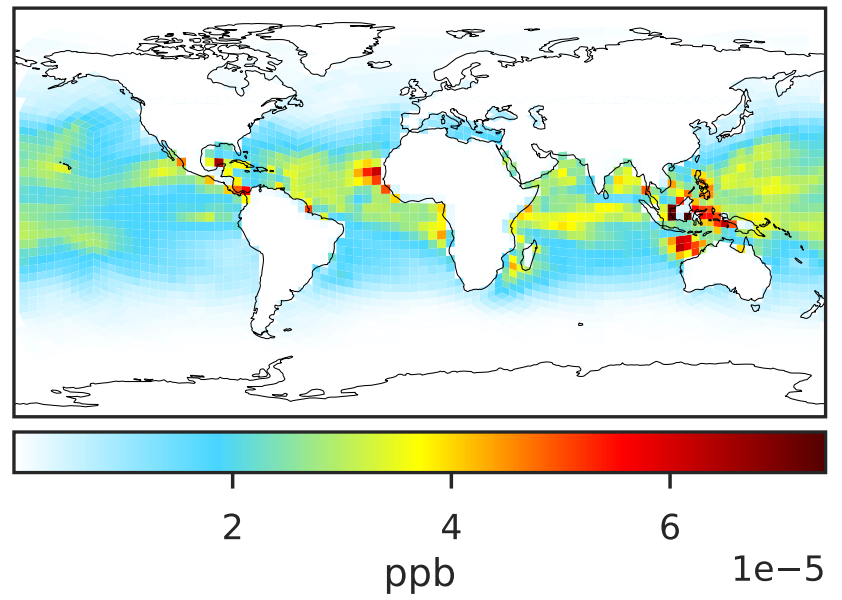
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_I2 (Oct2019)

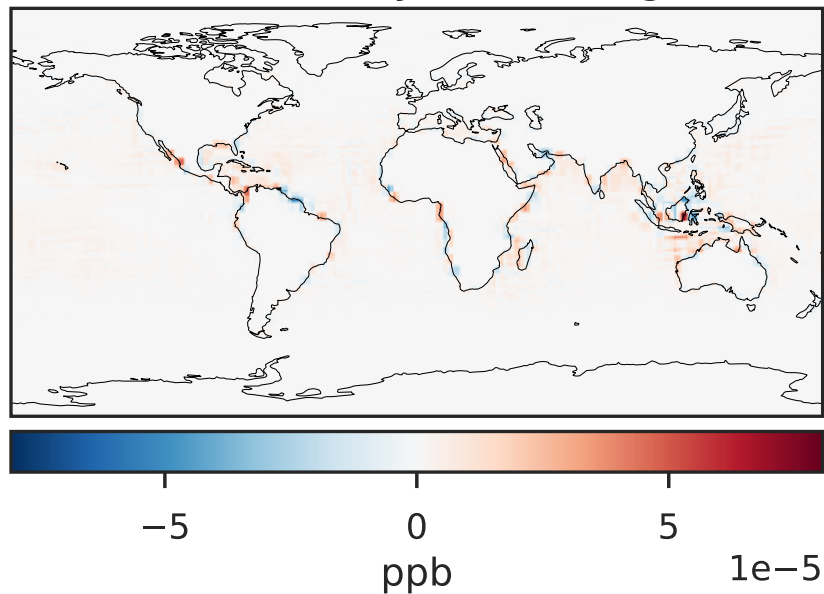
GCC\_14.2.0 (Ref)  
4.0x5.0



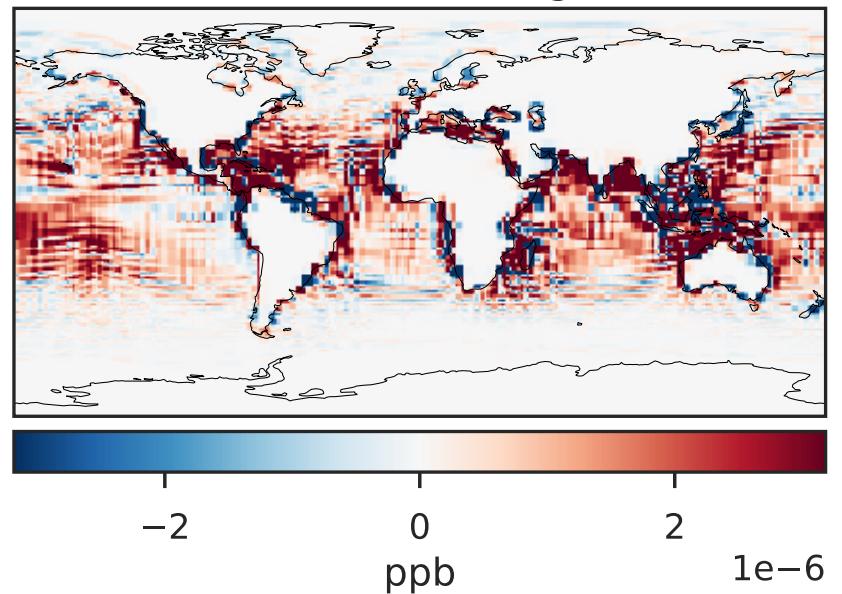
GCHP\_14.2.0 (Dev)  
c24



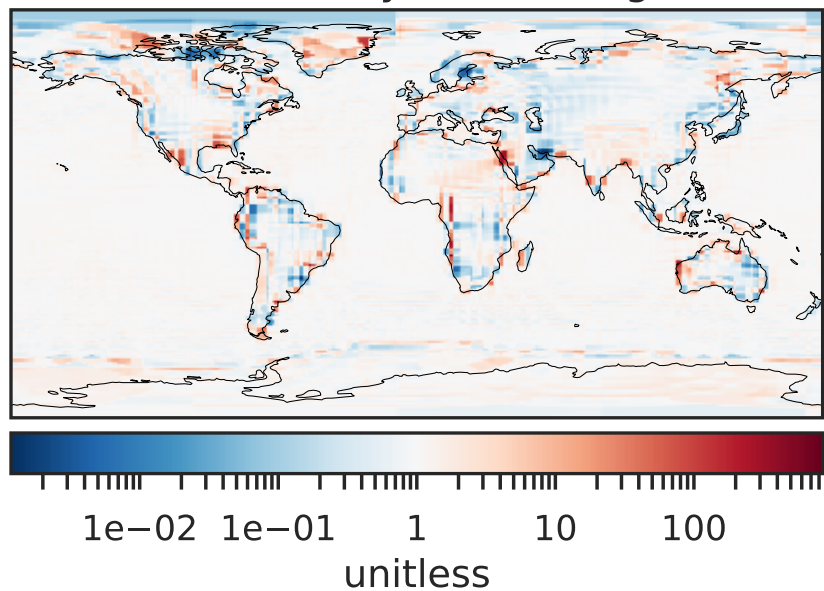
Difference (1x1.25)  
Dev - Ref, Dynamic Range



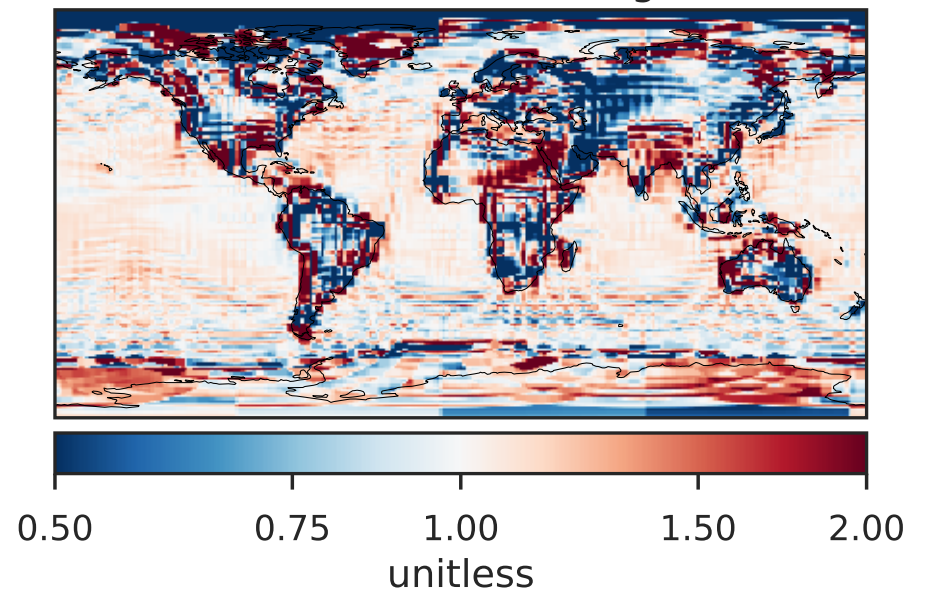
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

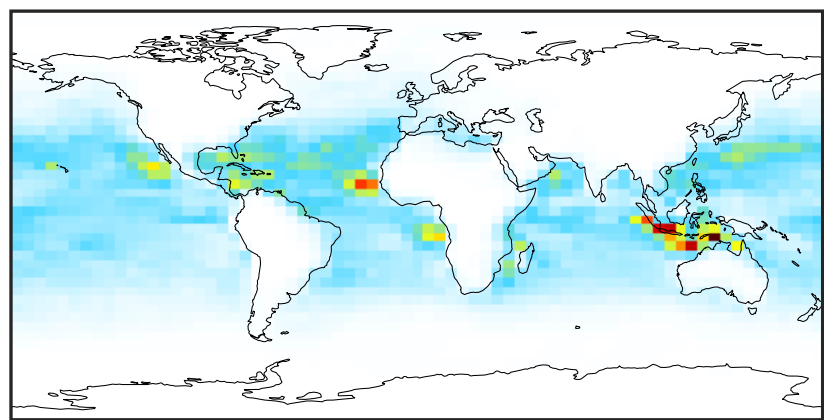


Ratio (1x1.25)  
Dev/Ref, Fixed Range



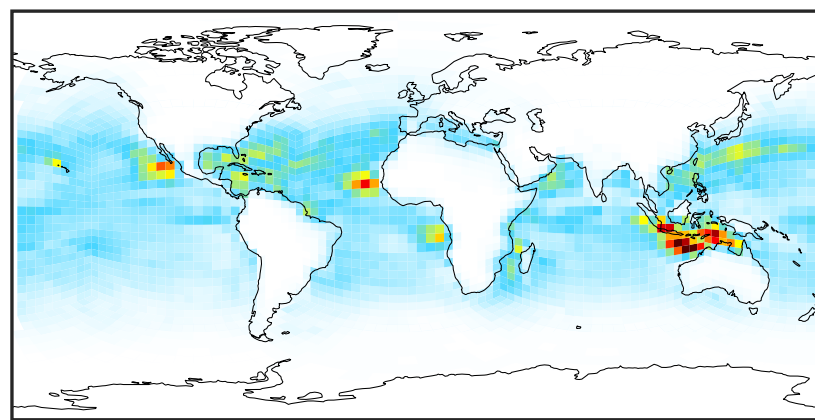
# SpeciesConcVV\_IBr (Oct2019)

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



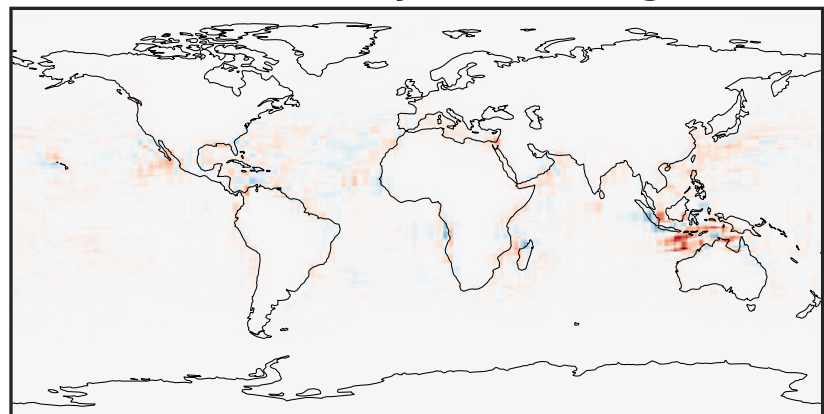
0.00008 0.00016 0.00024  
ppb

GCHP\_14.2.0 (Dev)  
c24



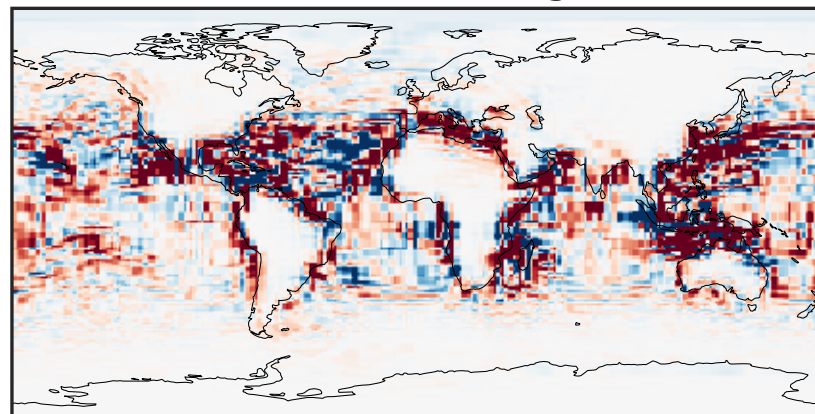
0.00008 0.00016 0.00024  
ppb

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



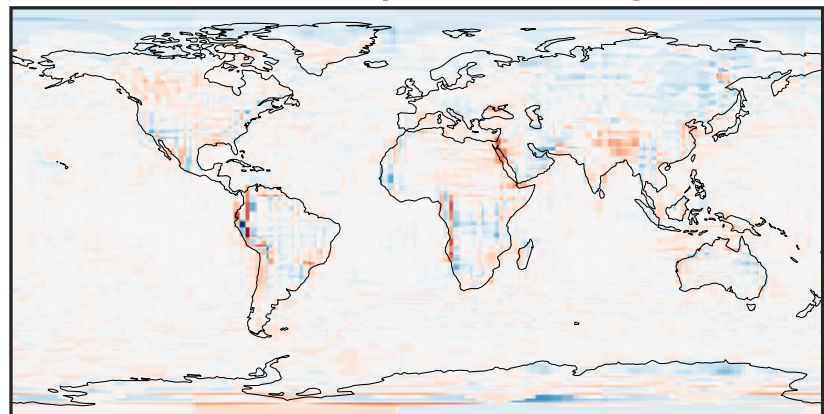
-0.0001 0.0000 0.0001  
ppb

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



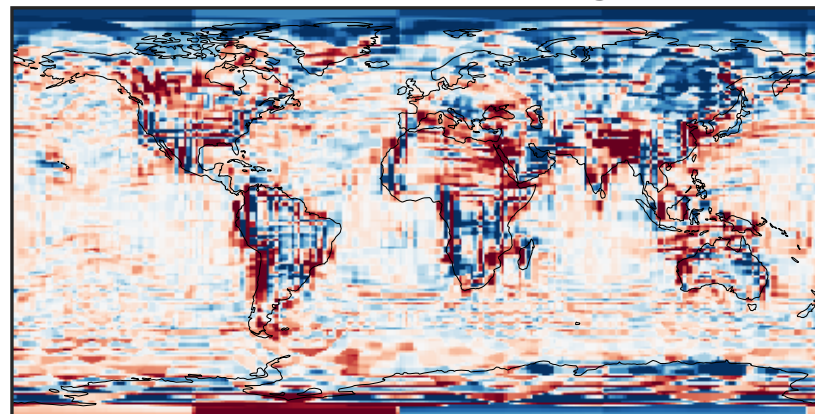
-5 0 5  
ppb  $1e-6$

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



$1e-01$  1 10  
unitless

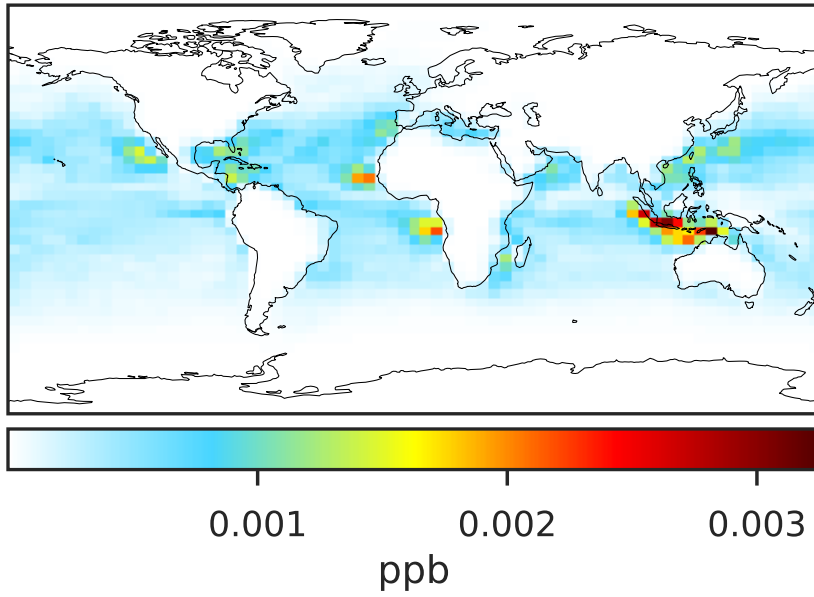
Ratio (1x1.25)  
Dev/Ref, Fixed Range



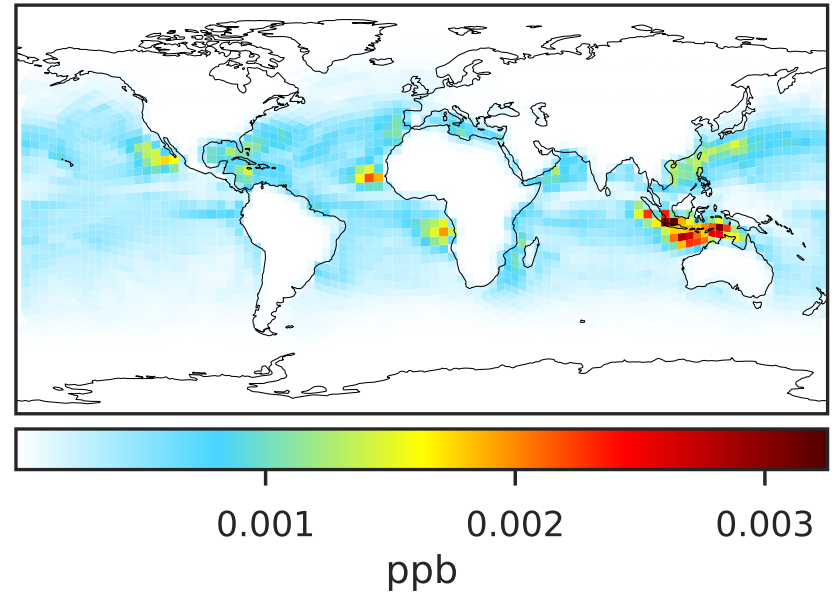
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVW\_ICI (Oct2019)

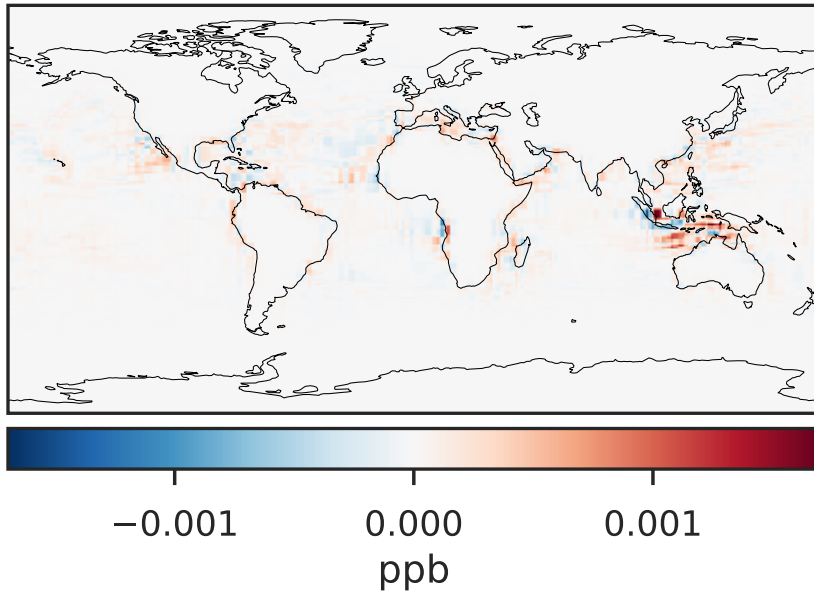
GCC\_14.2.0 (Ref)  
4.0x5.0



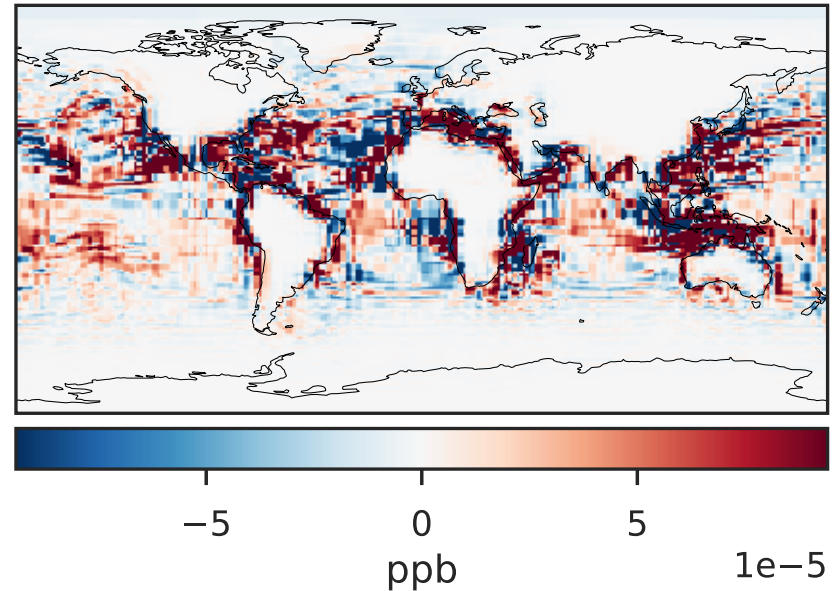
GCHP\_14.2.0 (Dev)  
c24



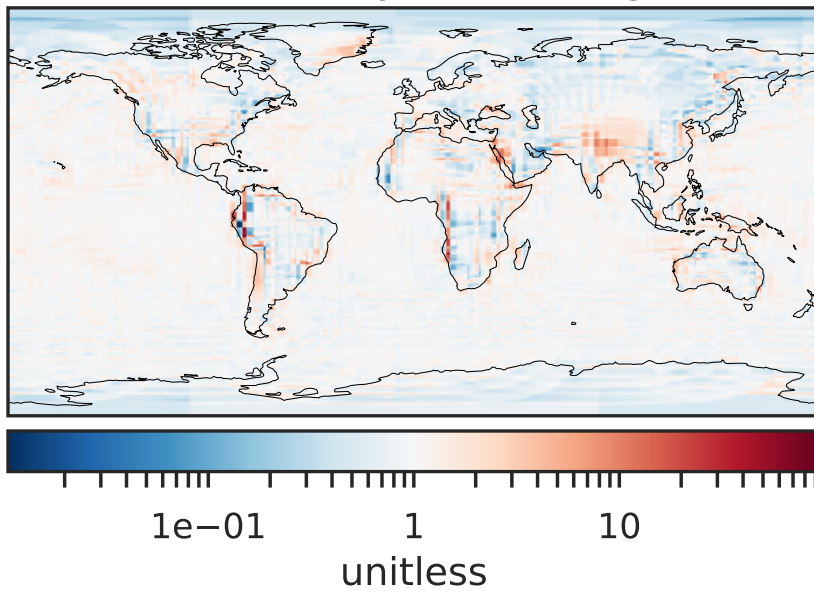
Difference (1x1.25)  
Dev - Ref, Dynamic Range



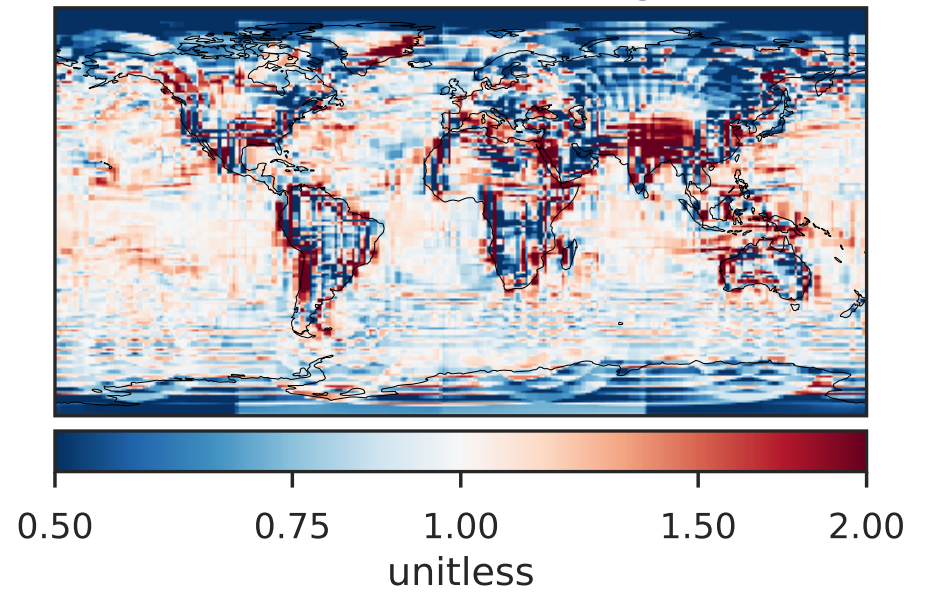
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

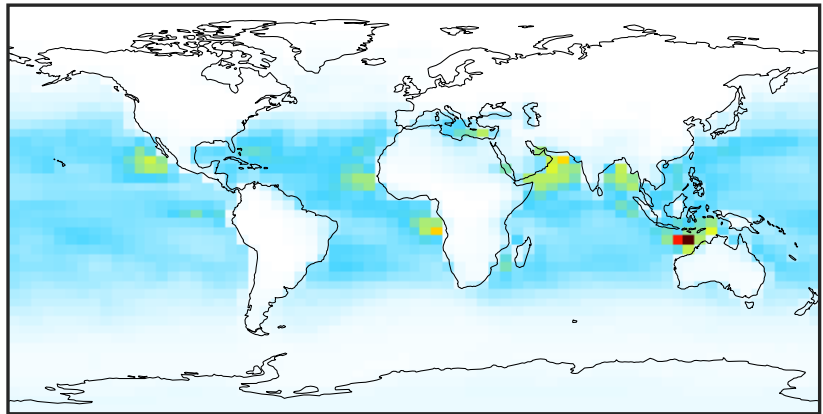


Ratio (1x1.25)  
Dev/Ref, Fixed Range



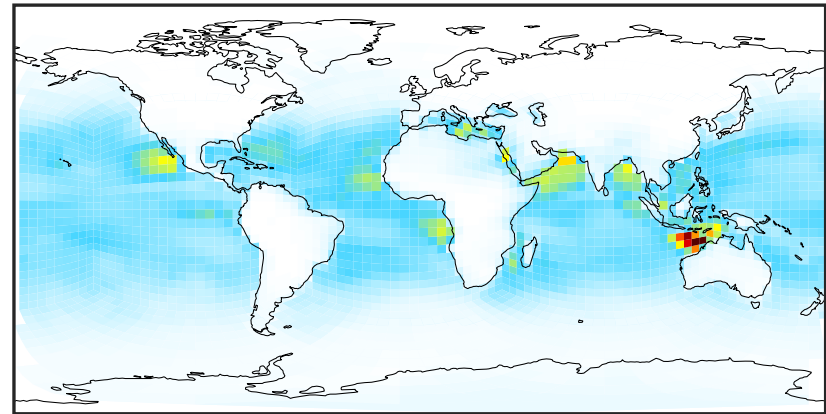
# SpeciesConcVV\_IO (Oct2019)

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



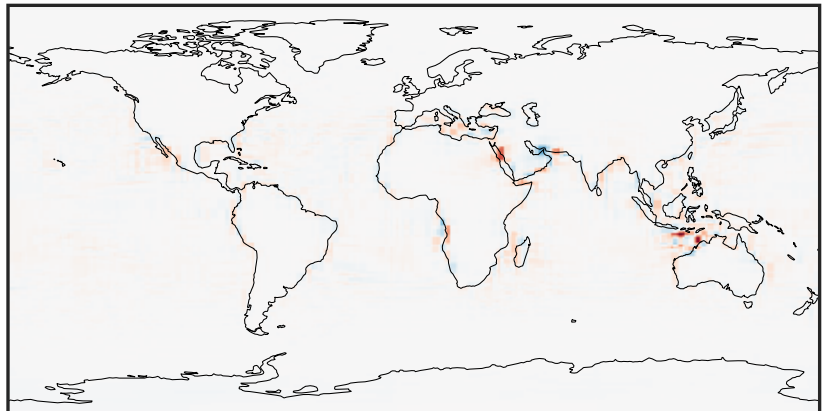
0.0008 0.0016 0.0024  
ppb

GCHP\_14.2.0 (Dev)  
c24



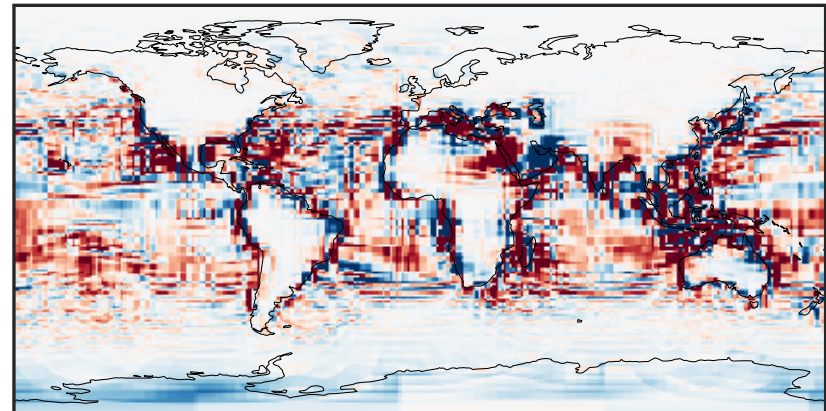
0.0008 0.0016 0.0024  
ppb

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



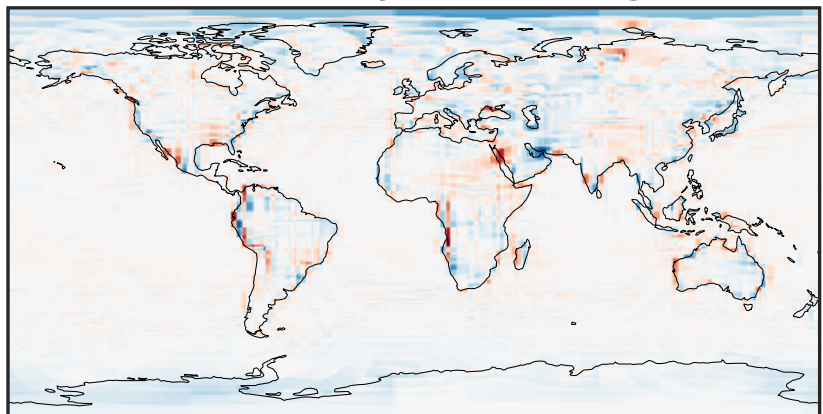
-0.001 0.000 0.001  
ppb

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



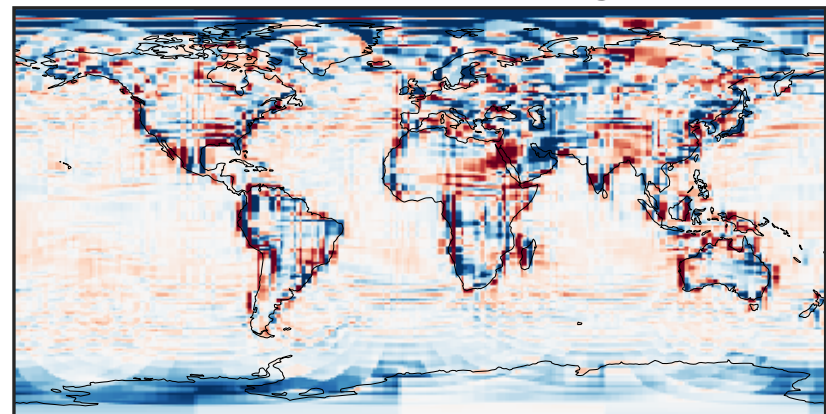
-3 0 3  
ppb  $1e-5$

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



$1e-01$  1 10  
unitless

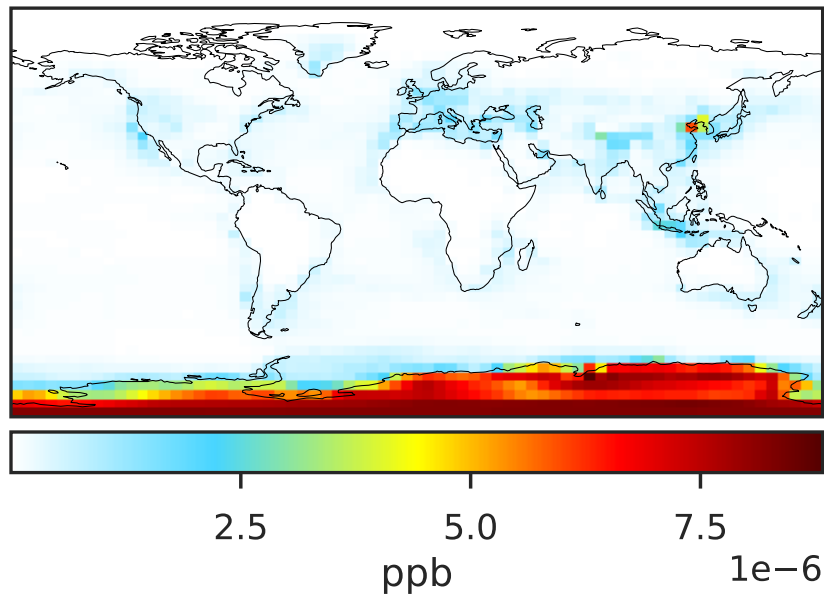
Ratio (1x1.25)  
Dev/Ref, Fixed Range



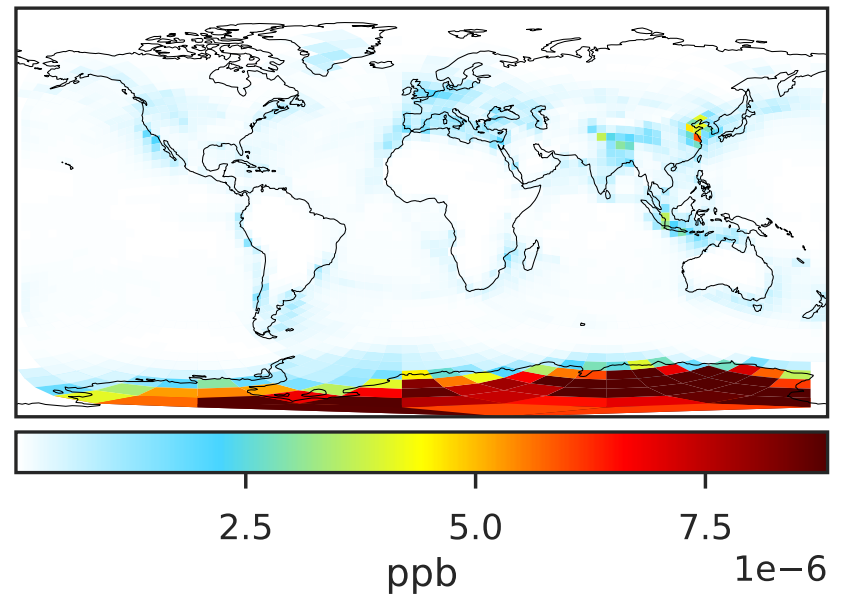
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_IONO (Oct2019)

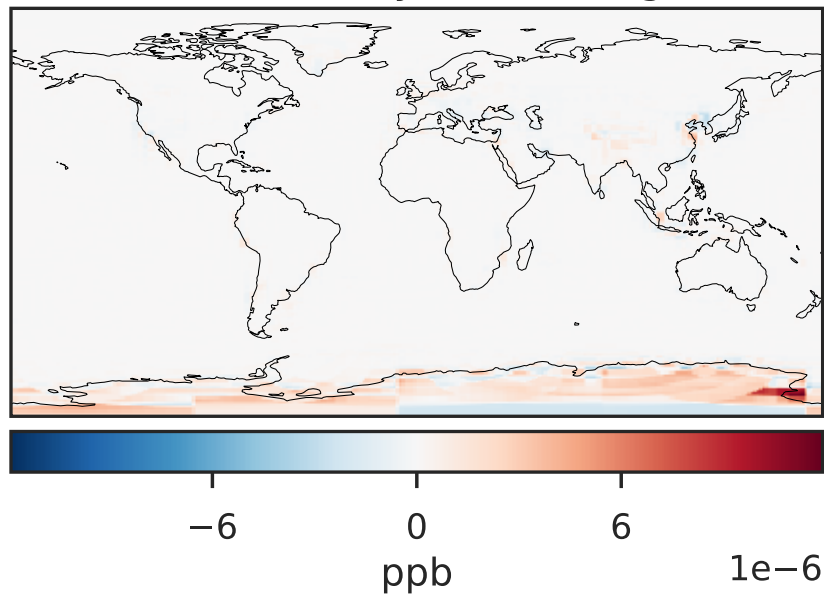
GCC\_14.2.0 (Ref)  
4.0x5.0



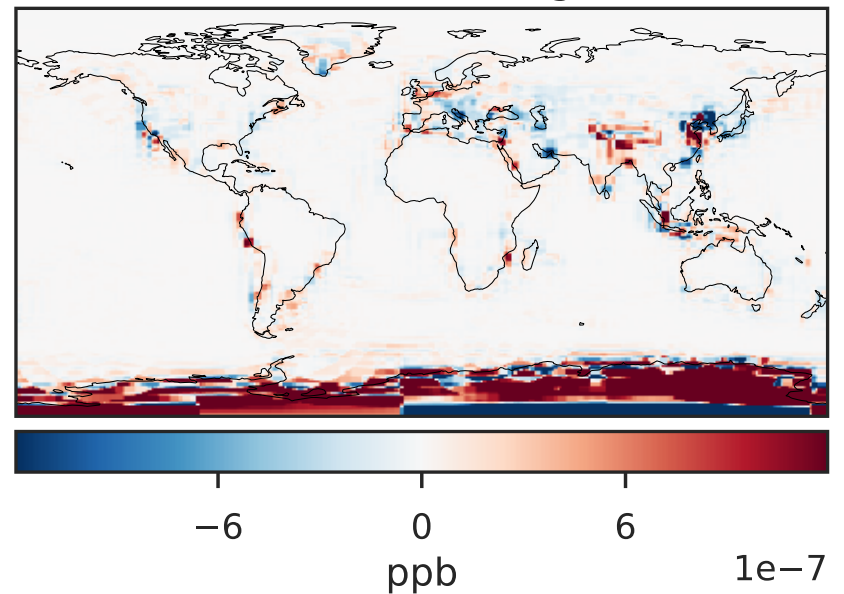
GCHP\_14.2.0 (Dev)  
c24



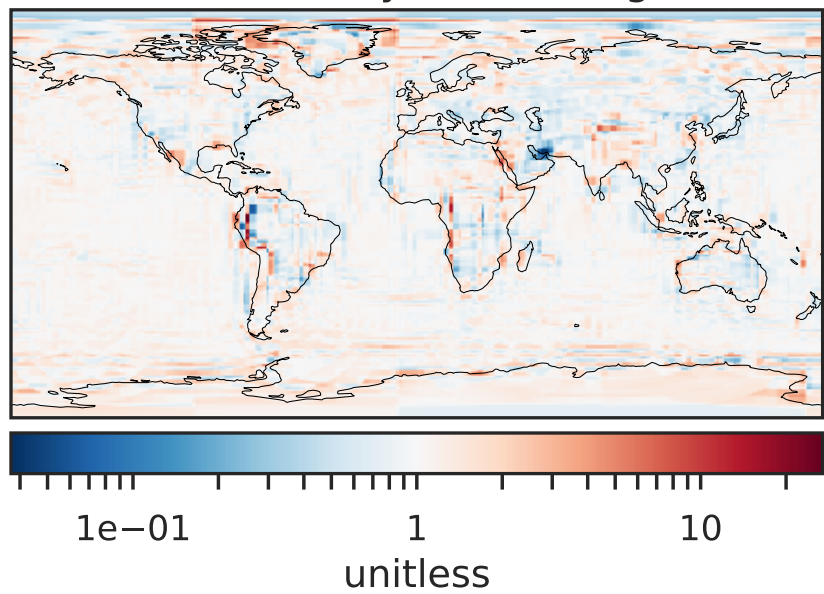
Difference (1x1.25)  
Dev - Ref, Dynamic Range



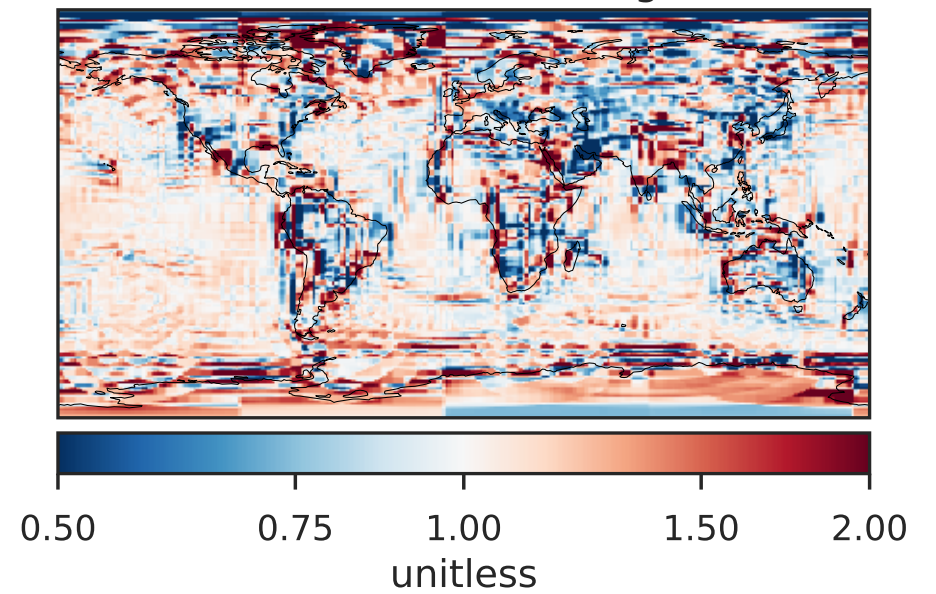
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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



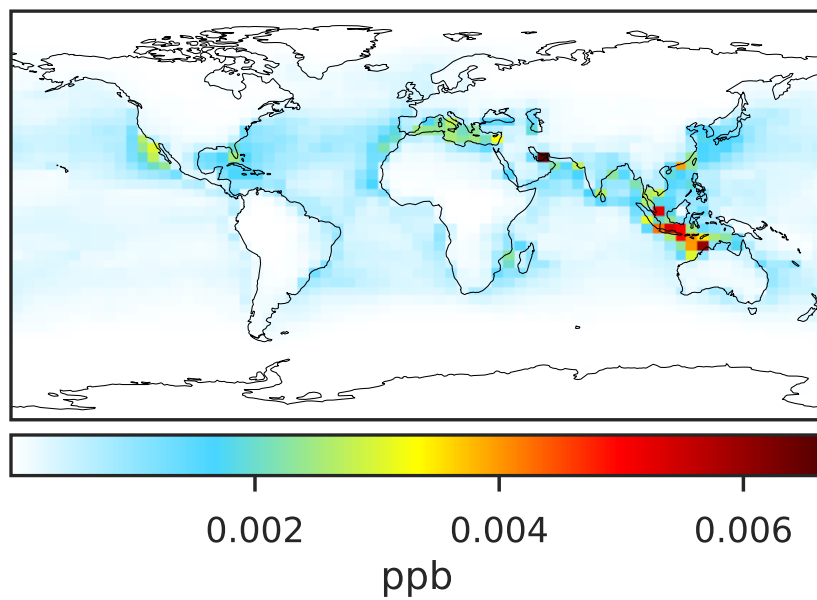
Ratio (1x1.25)  
Dev/Ref, Fixed Range



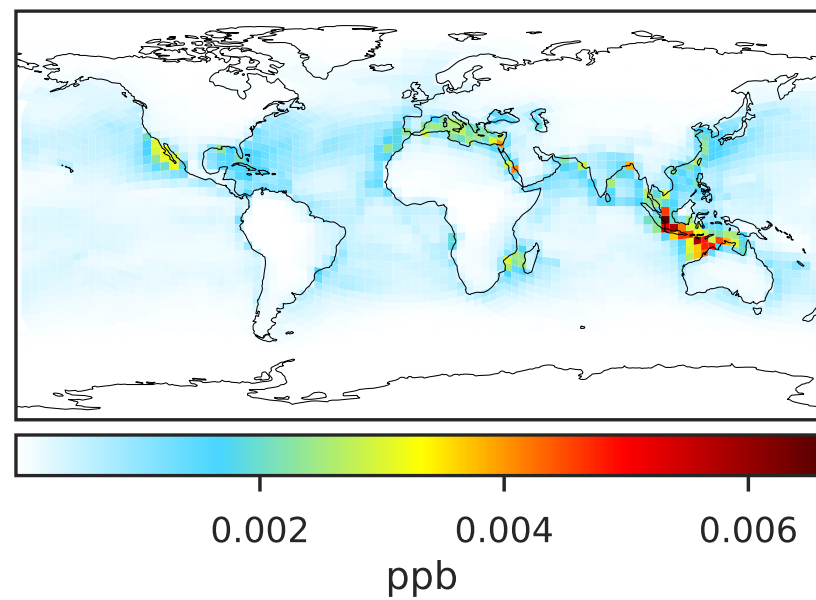


# SpeciesConcVV\_IONO2 (Oct2019)

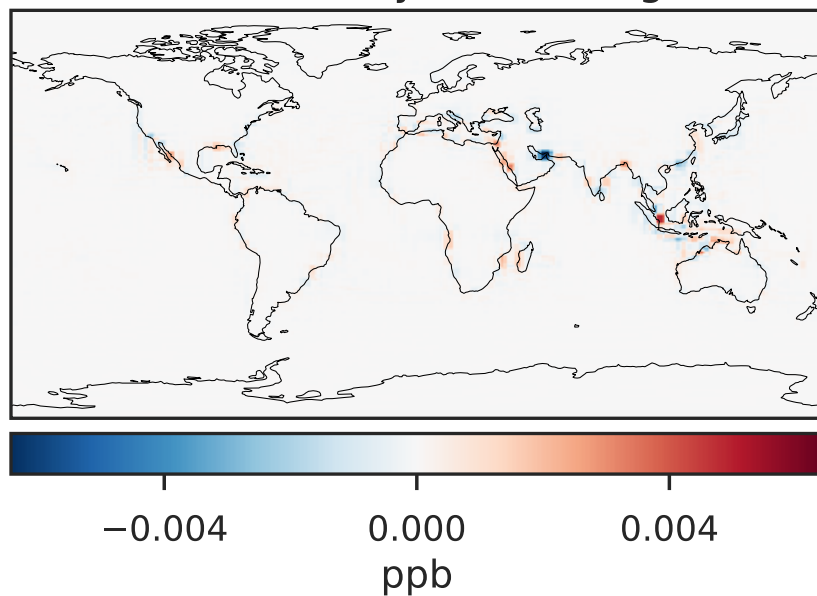
GCC\_14.2.0 (Ref)  
4.0x5.0



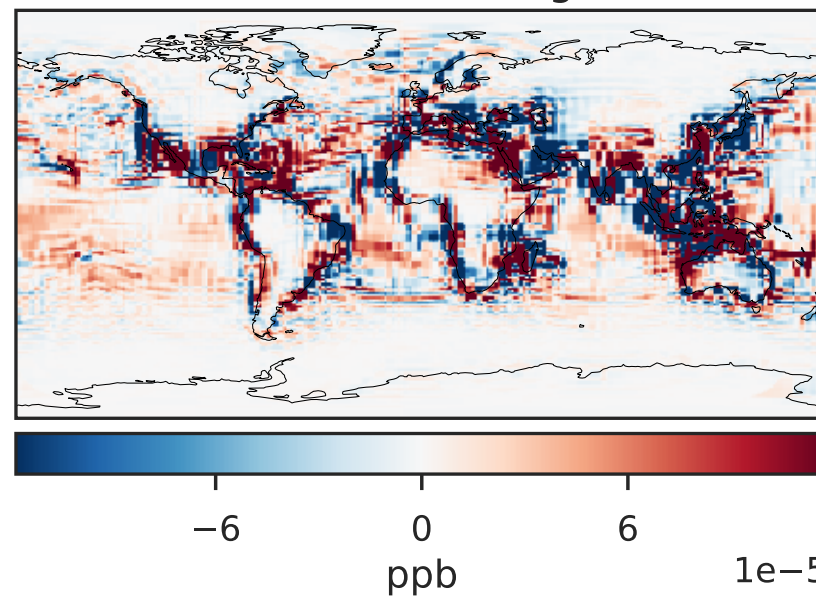
GCHP\_14.2.0 (Dev)  
c24



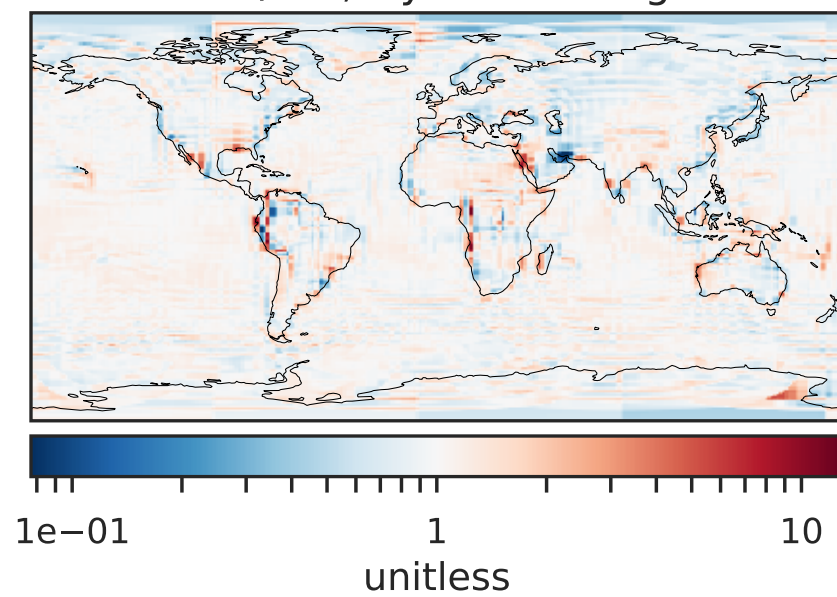
Difference (1x1.25)  
Dev - Ref, Dynamic Range



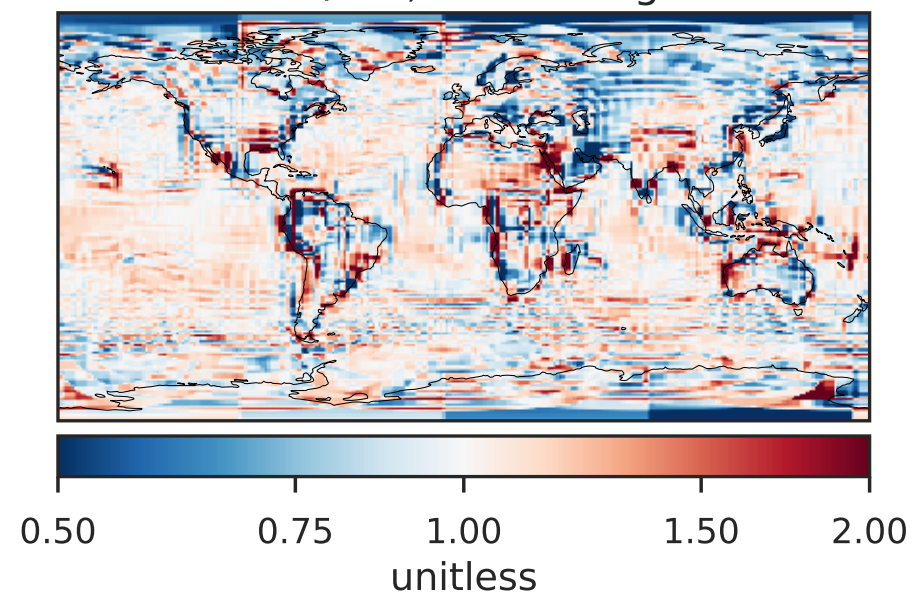
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

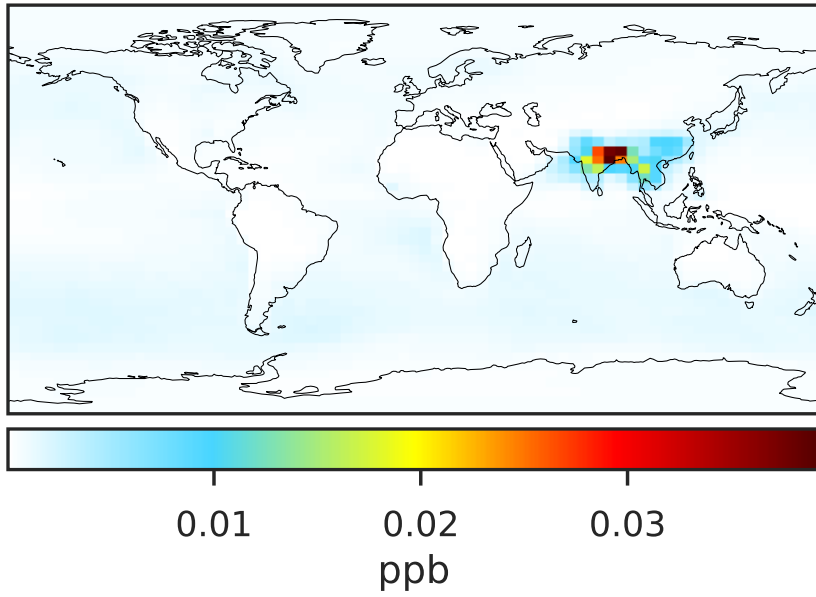


Ratio (1x1.25)  
Dev/Ref, Fixed Range

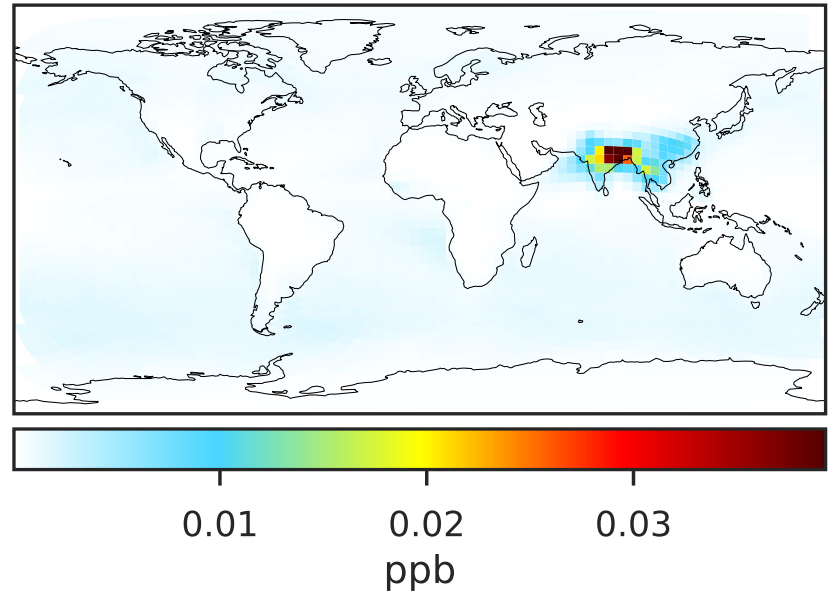


# SpeciesConcVV\_CH3I (Oct2019)

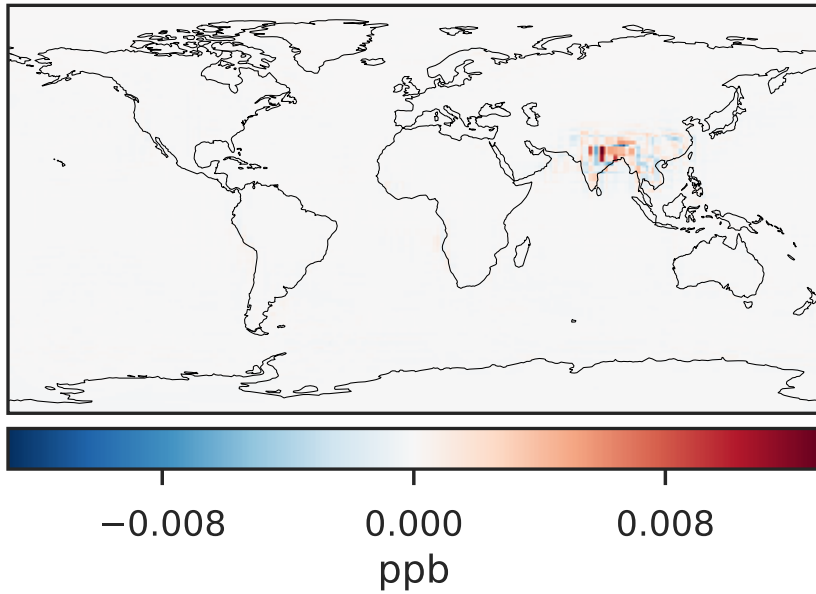
GCC\_14.2.0 (Ref)  
4.0x5.0



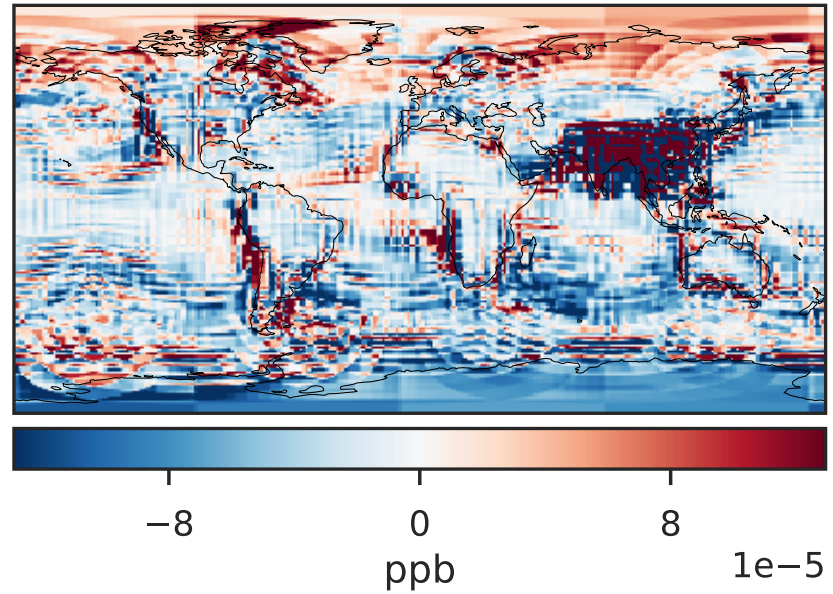
GCHP\_14.2.0 (Dev)  
c24



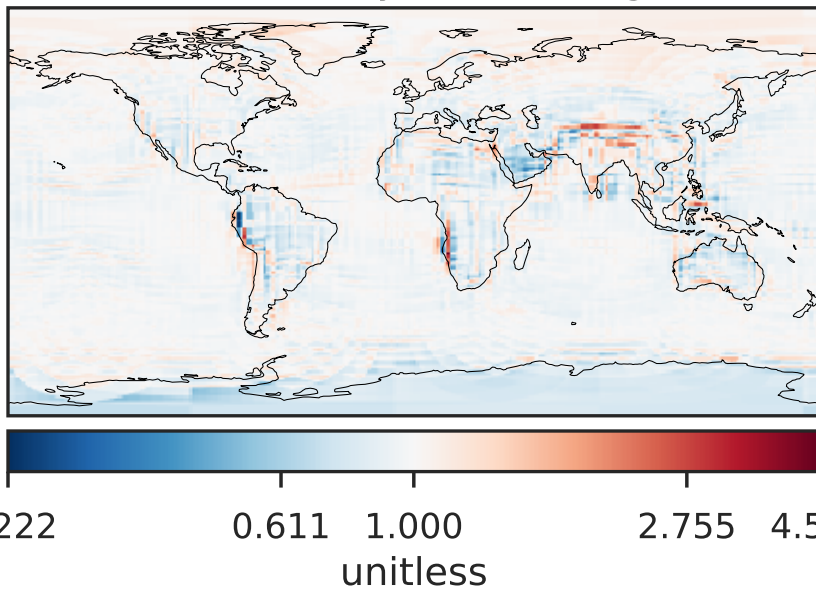
Difference (1x1.25)  
Dev - Ref, Dynamic Range



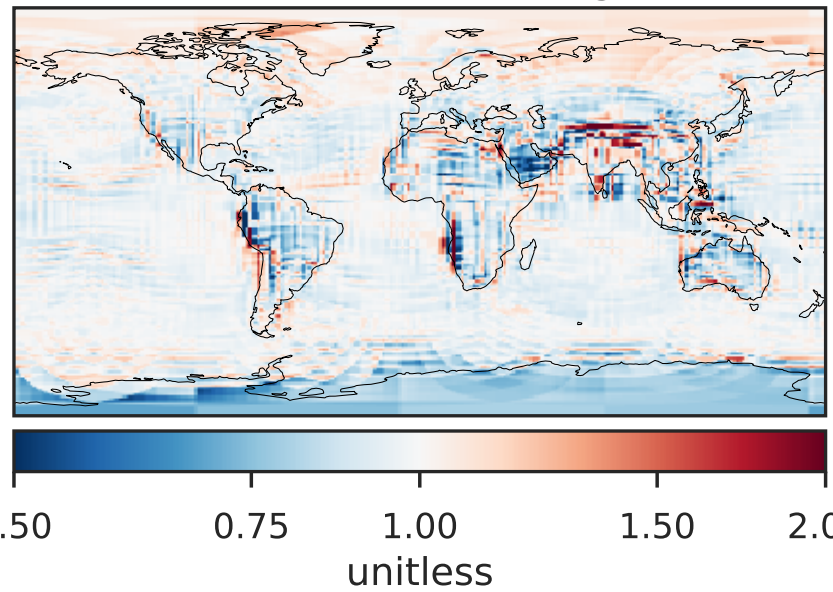
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

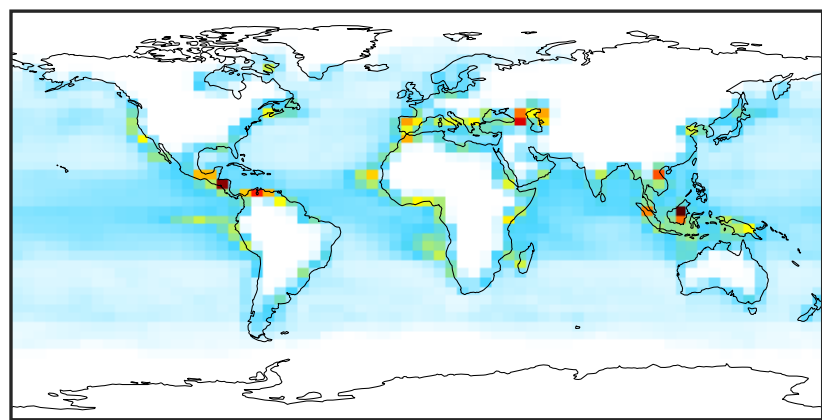


Ratio (1x1.25)  
Dev/Ref, Fixed Range



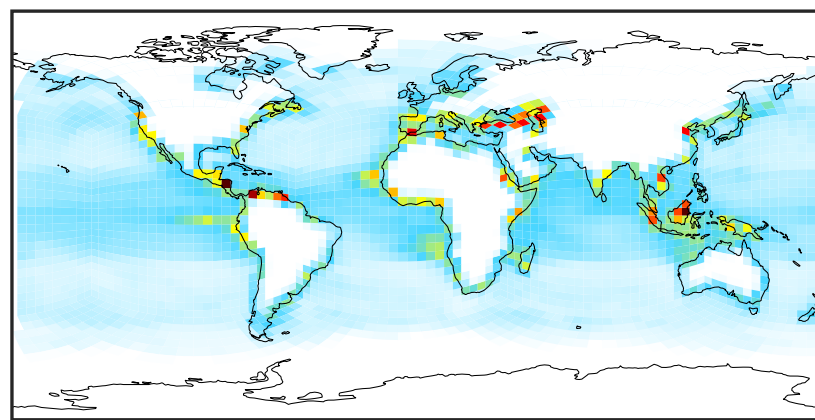
# SpeciesConcVV\_CH2I2 (Oct2019)

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



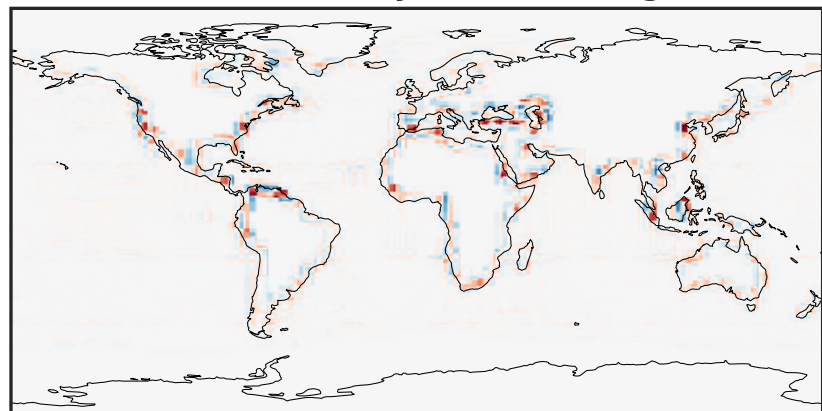
0.00000 0.00004 0.00008 0.00012  
ppb

GCHP\_14.2.0 (Dev)  
c24



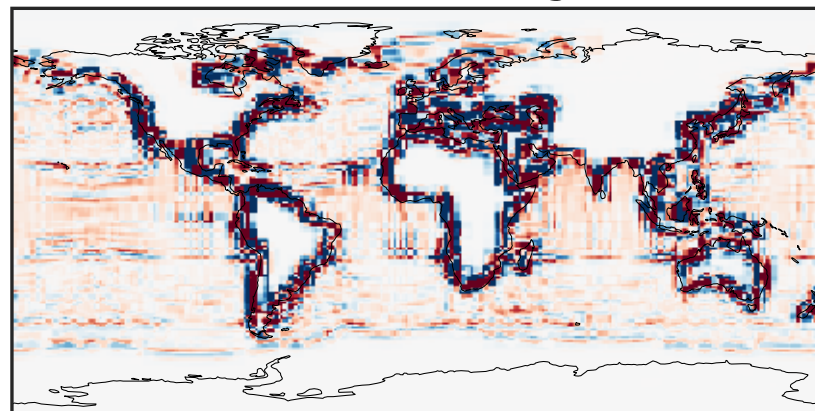
0.00000 0.00004 0.00008 0.00012  
ppb

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



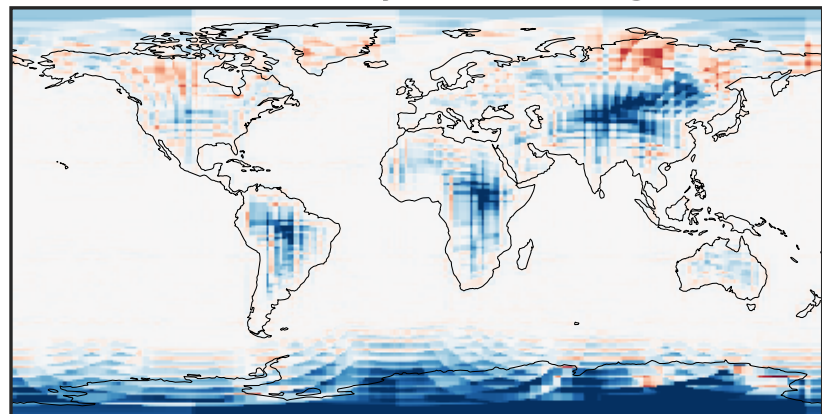
-4 0 4  
ppb  $1e-5$

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



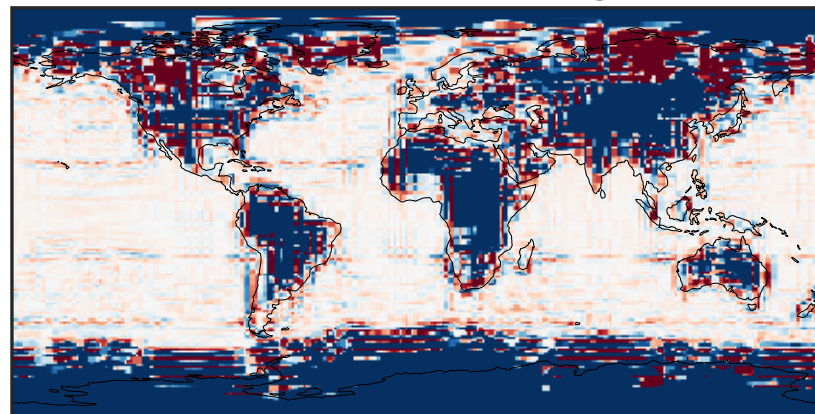
-2.5 0.0 2.5  
ppb  $1e-6$

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



unitless

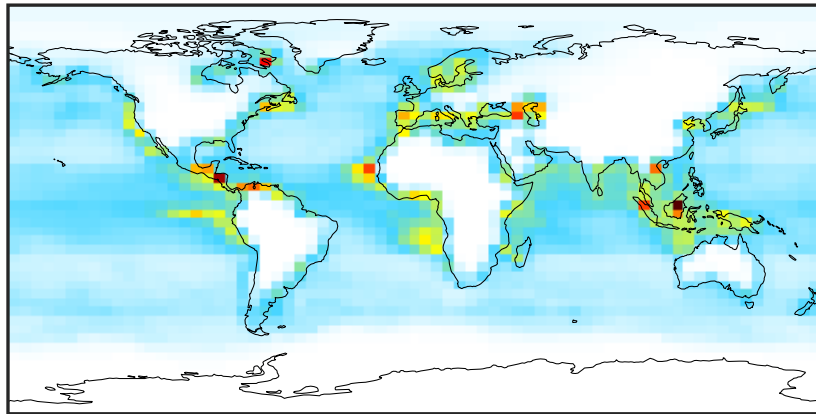
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

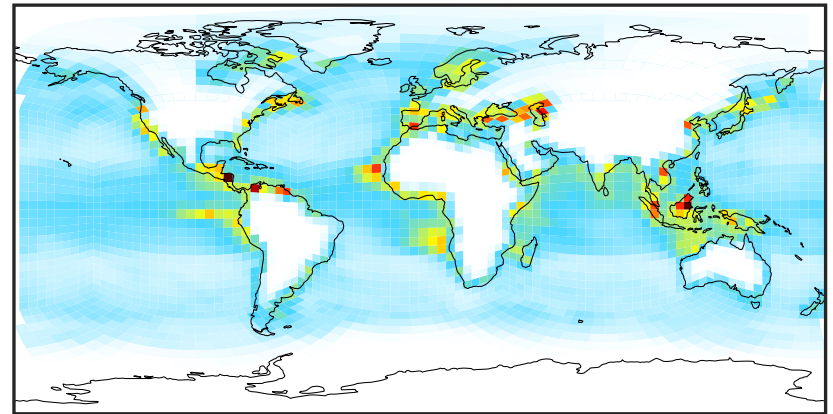
# SpeciesConcVV\_CH2ICl (Oct2019)

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



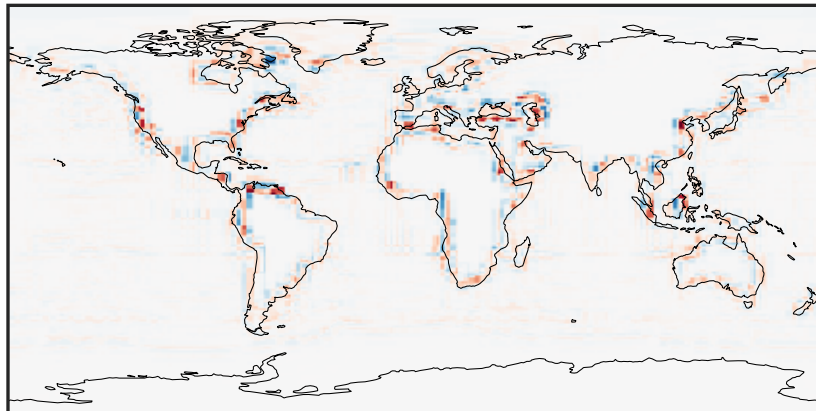
0.00015 0.00030 0.00045  
ppb

GCHP\_14.2.0 (Dev)  
c24



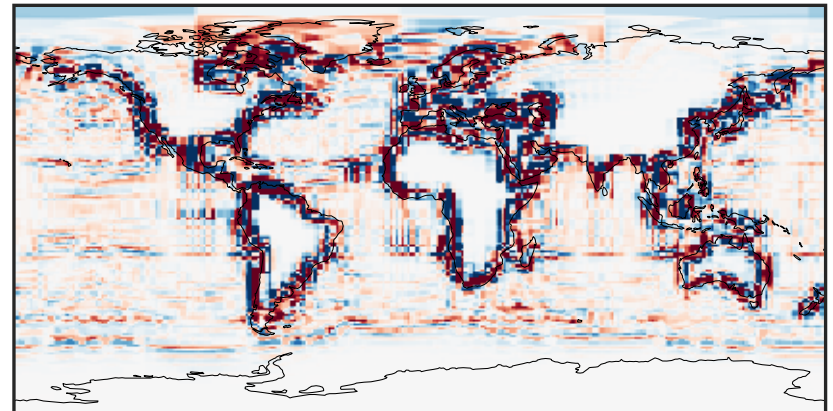
0.00015 0.00030 0.00045  
ppb

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



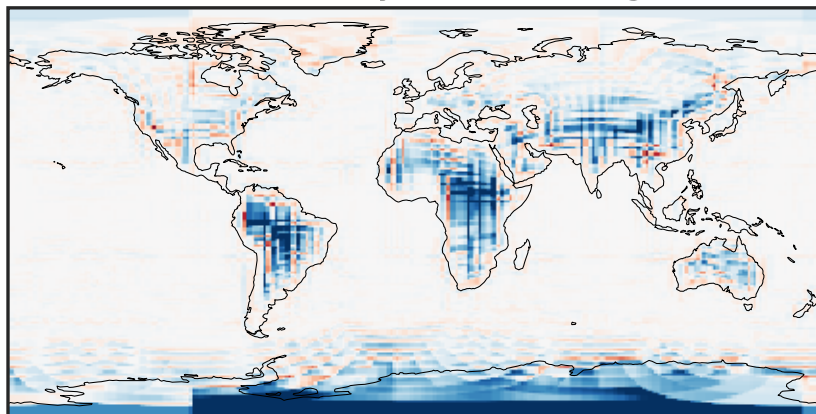
-0.00015 0.00000 0.00015  
ppb

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



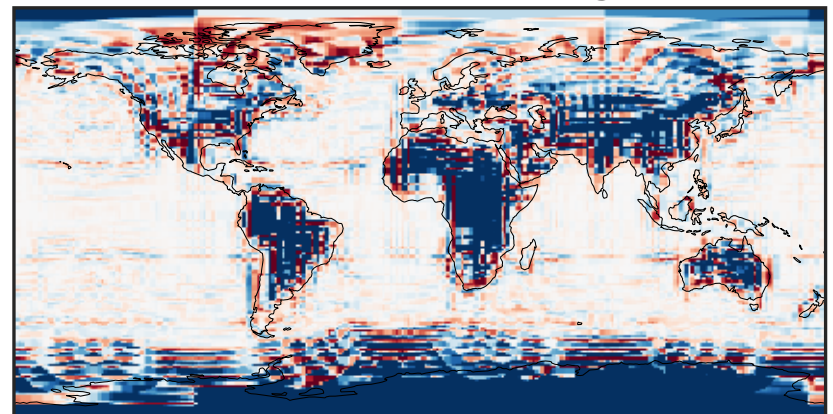
-1.5 0.0 1.5  
ppb  $1e-5$

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



$1e-01$  1 10  
unitless

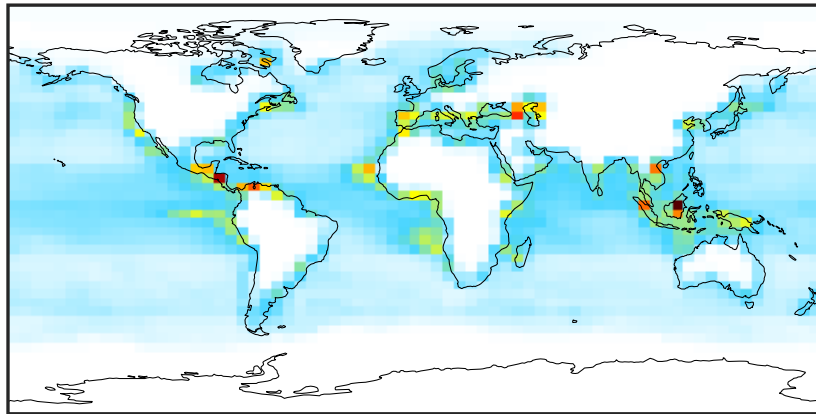
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

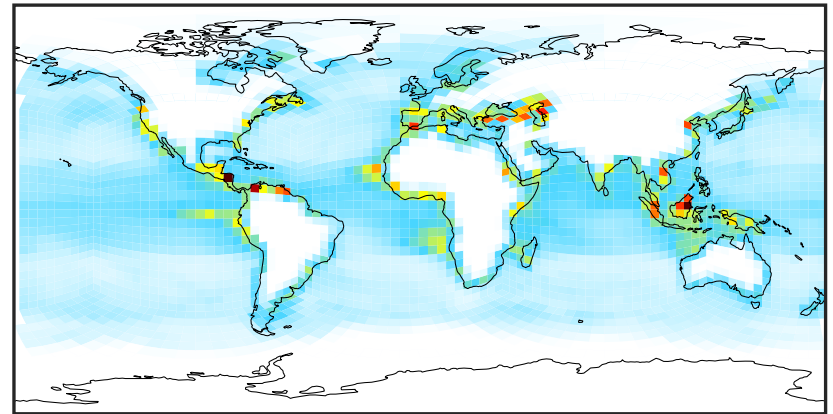
# SpeciesConcVV\_CH2IBr (Oct2019)

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



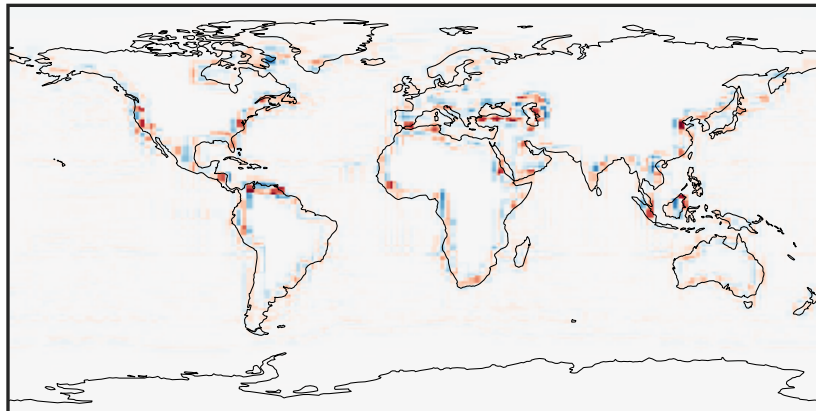
0.00000 0.00004 0.00008 0.00012  
ppb

GCHP\_14.2.0 (Dev)  
c24



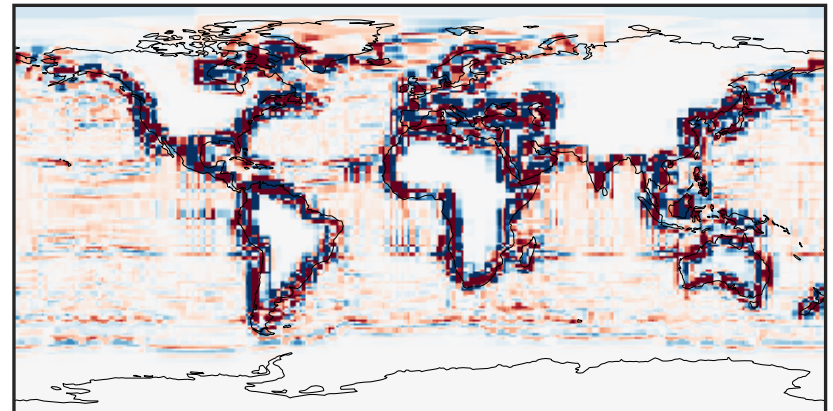
0.00000 0.00004 0.00008 0.00012  
ppb

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



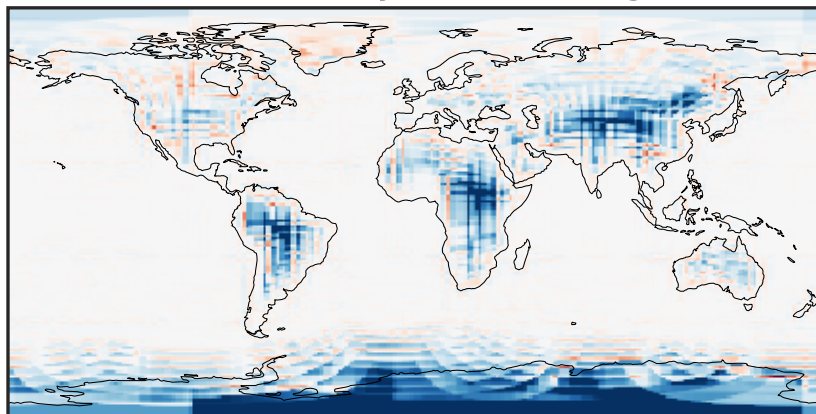
-4 0 4  
ppb  $1e-5$

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



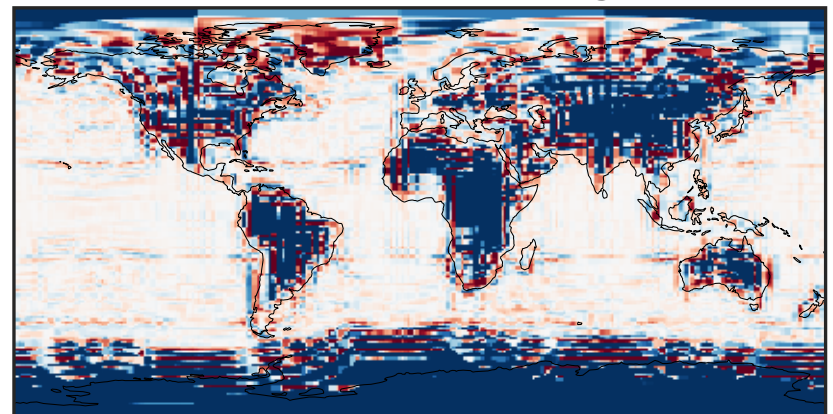
-4 0 4  
ppb  $1e-6$

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



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

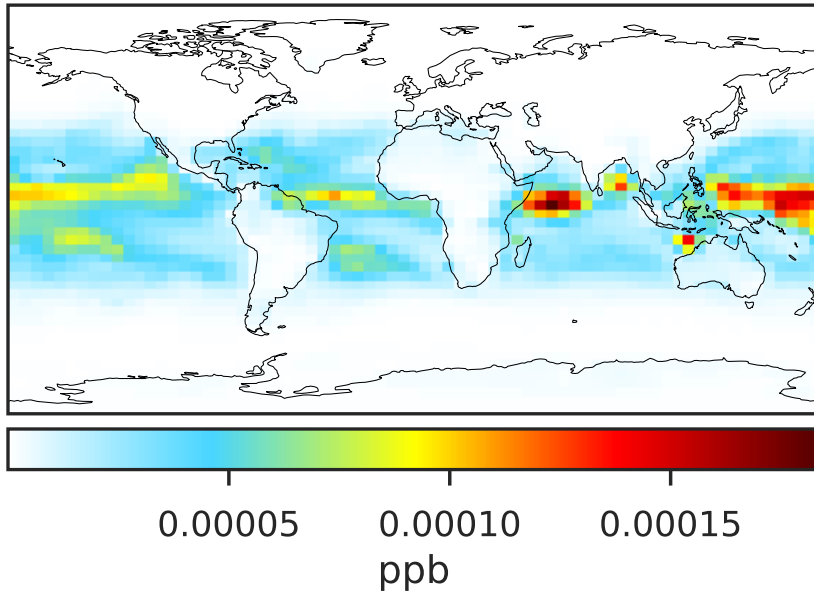
Ratio (1x1.25)  
Dev/Ref, Fixed Range



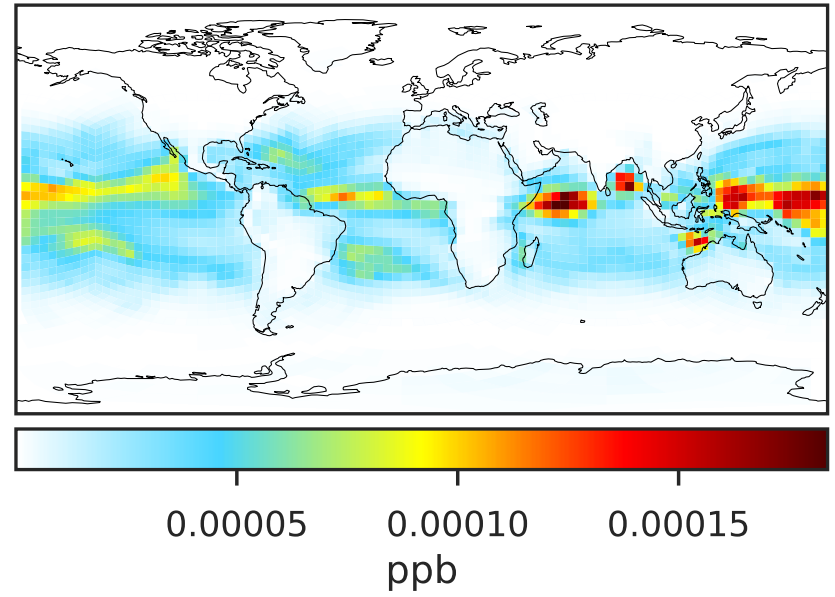
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_HI (Oct2019)

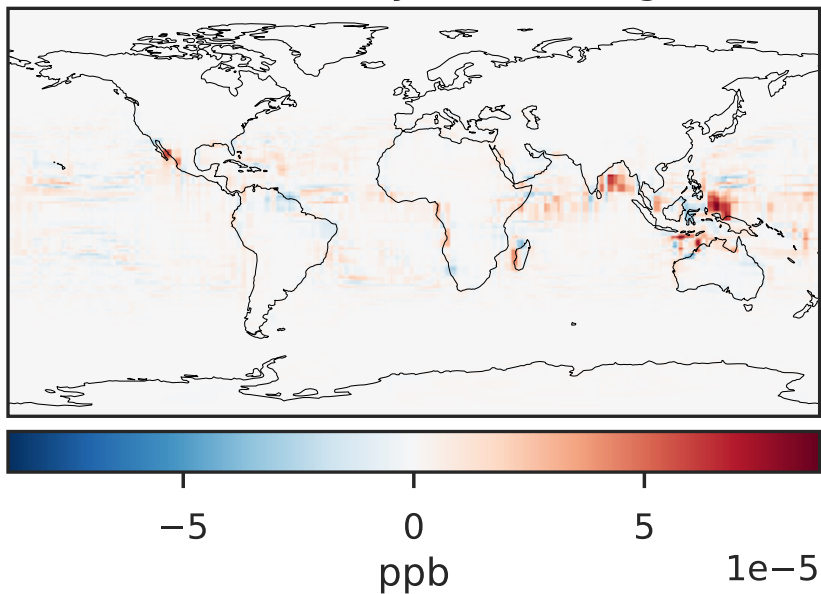
GCC\_14.2.0 (Ref)  
4.0x5.0



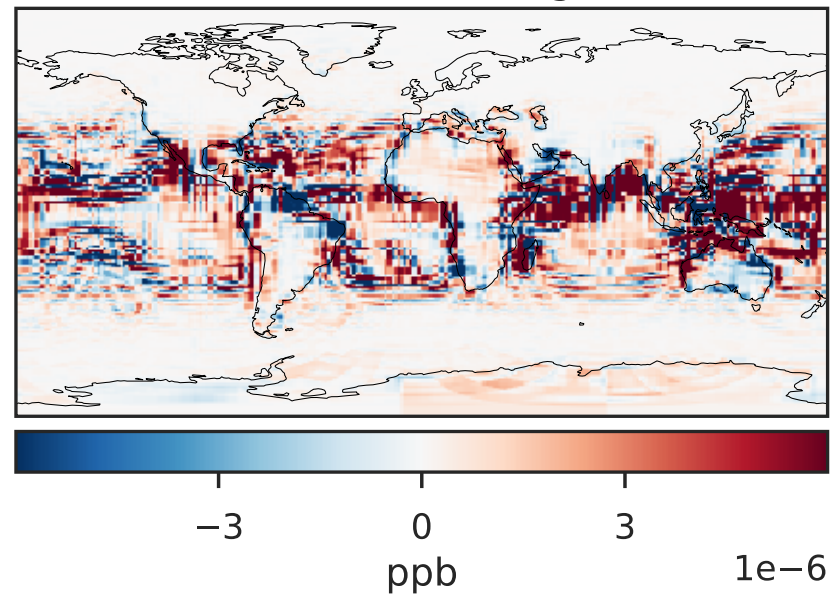
GCHP\_14.2.0 (Dev)  
c24



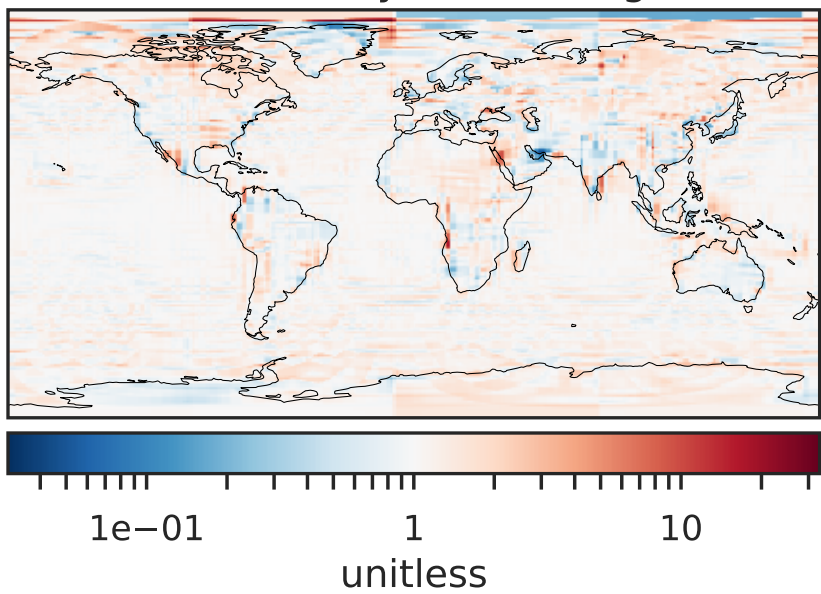
Difference (1x1.25)  
Dev - Ref, Dynamic Range



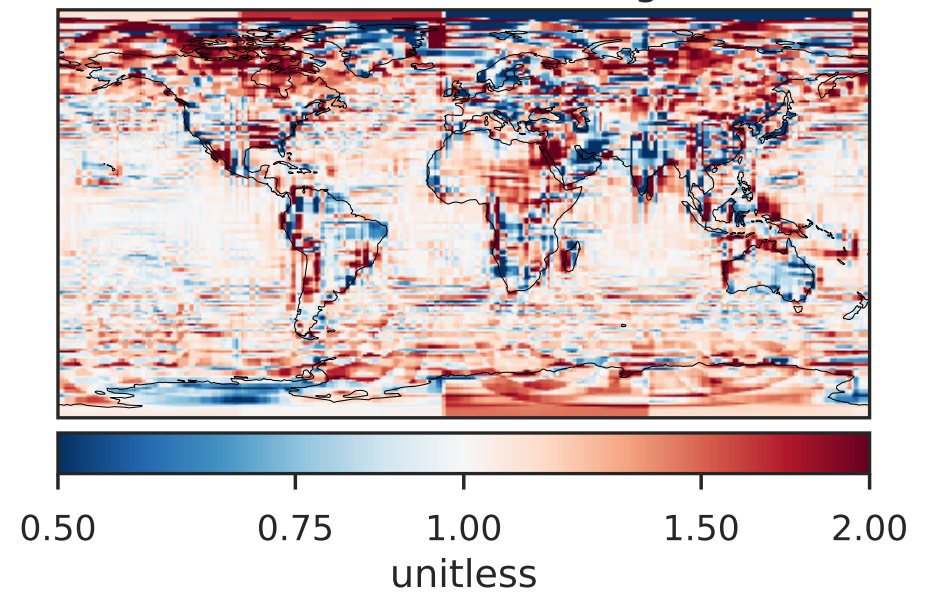
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

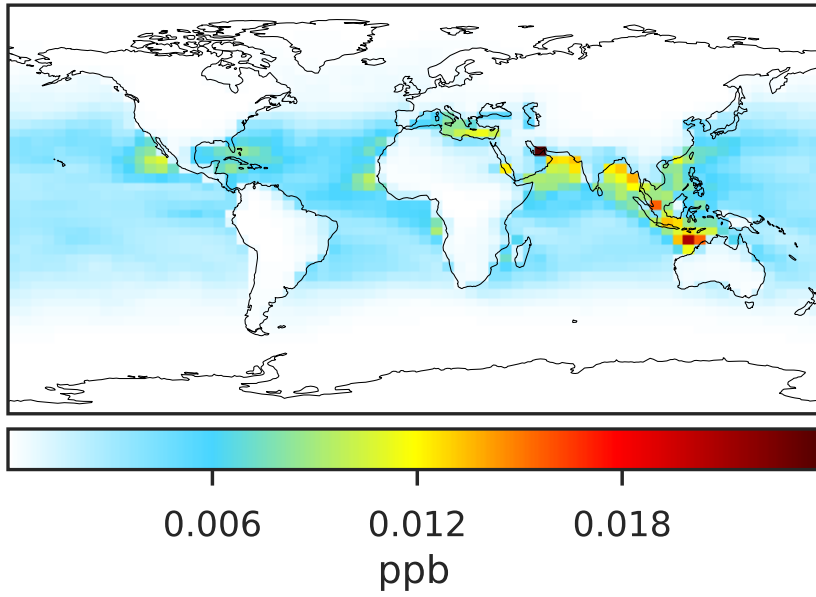


Ratio (1x1.25)  
Dev/Ref, Fixed Range

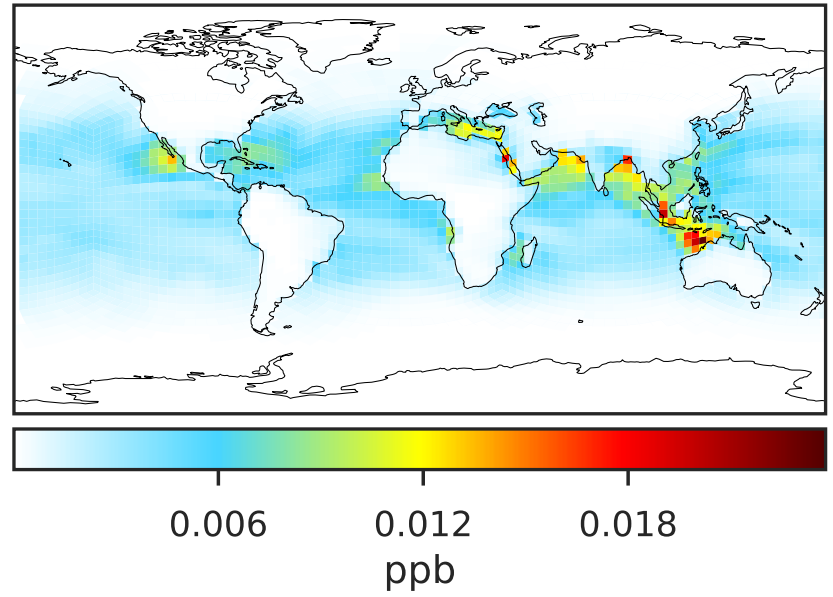


# SpeciesConcVV\_HOI (Oct2019)

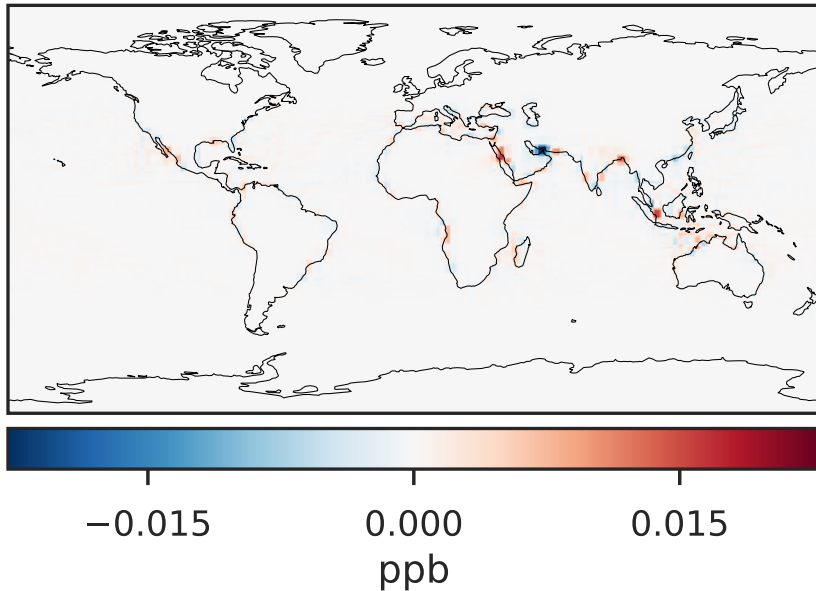
GCC\_14.2.0 (Ref)  
4.0x5.0



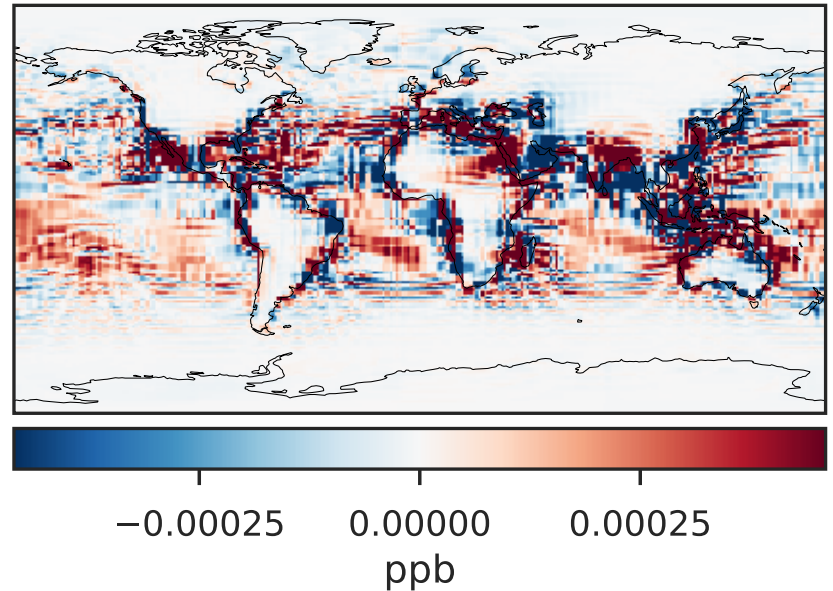
GCHP\_14.2.0 (Dev)  
c24



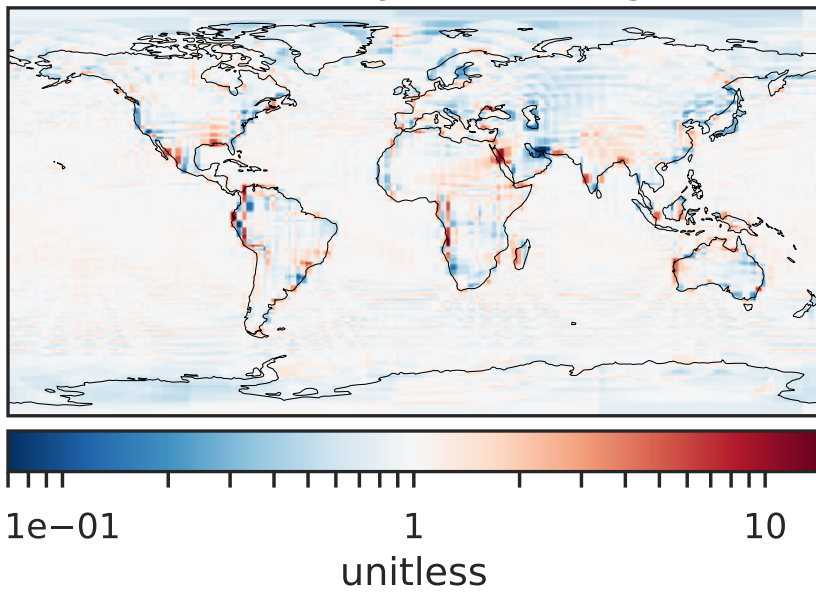
Difference (1x1.25)  
Dev - Ref, Dynamic Range



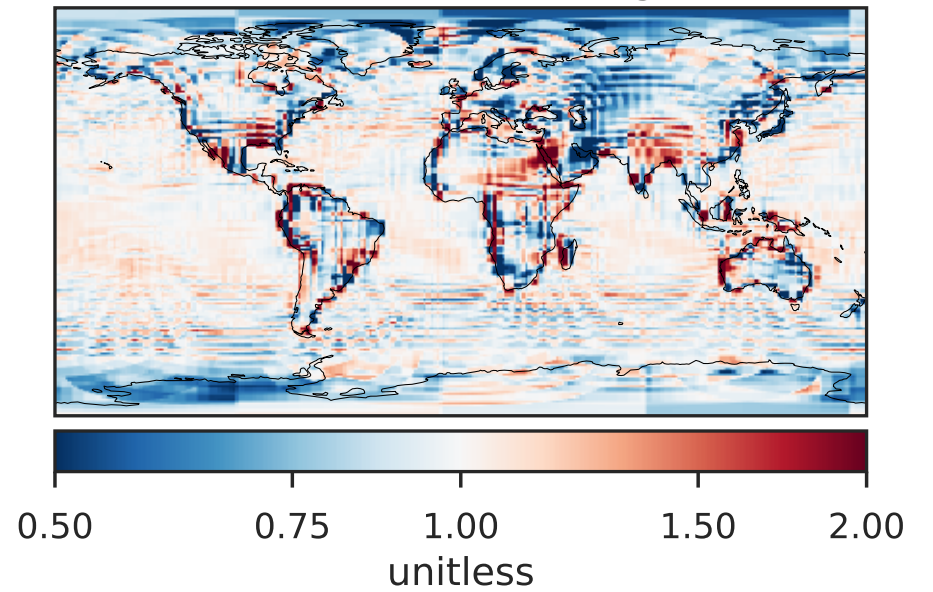
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

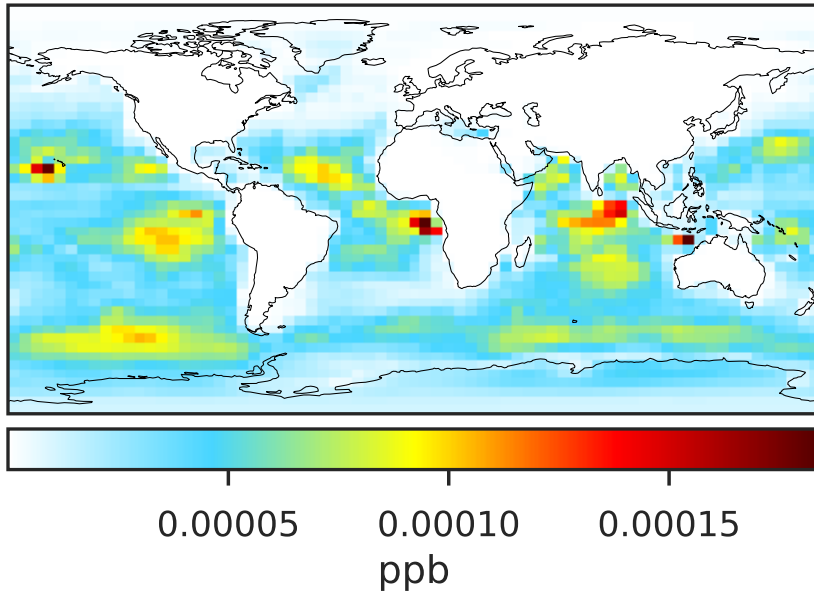


Ratio (1x1.25)  
Dev/Ref, Fixed Range

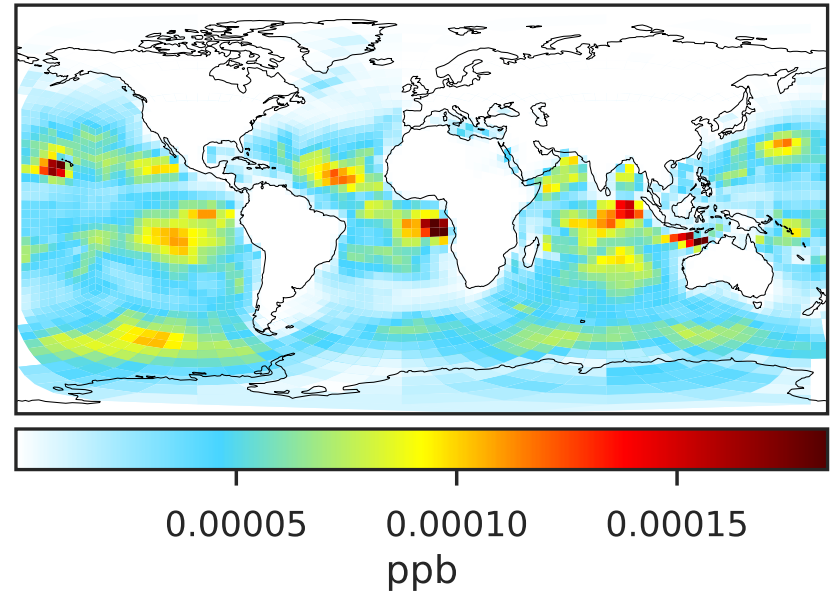


# SpeciesConcVV\_OIO (Oct2019)

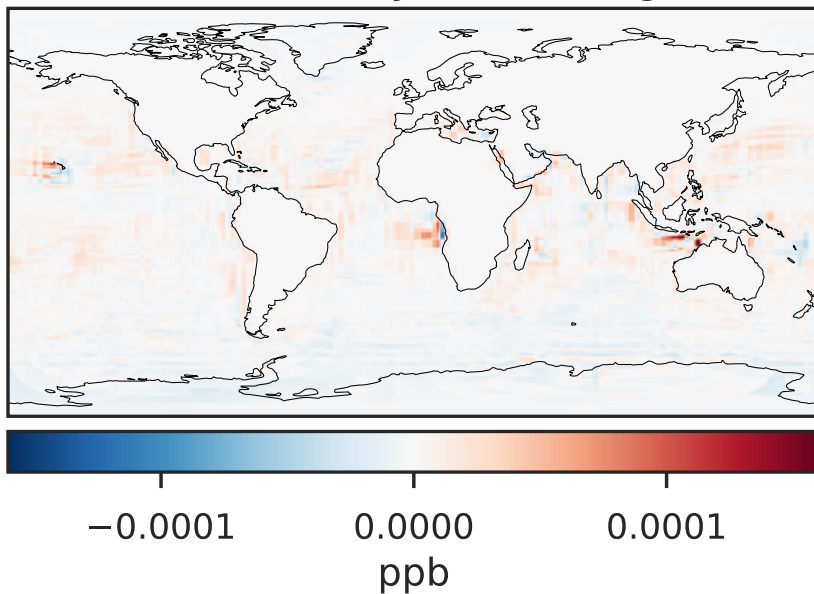
GCC\_14.2.0 (Ref)  
4.0x5.0



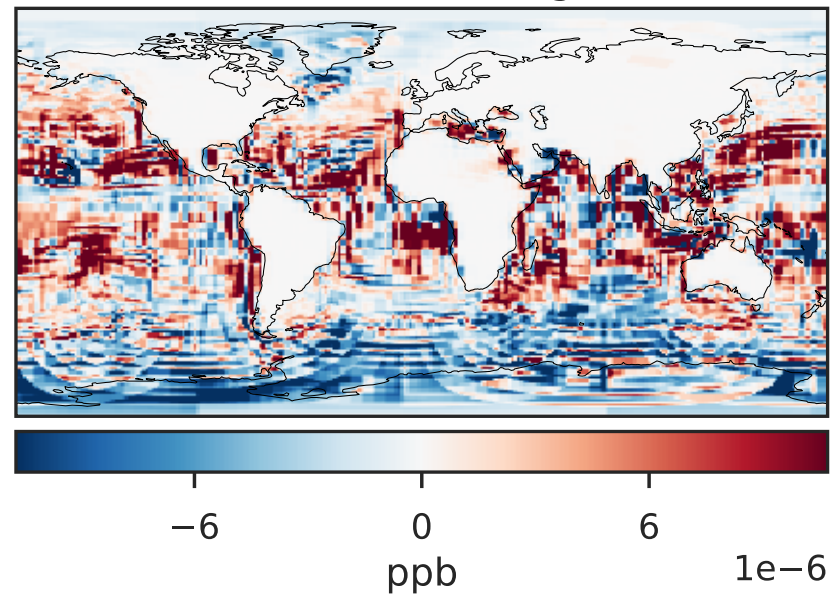
GCHP\_14.2.0 (Dev)  
c24



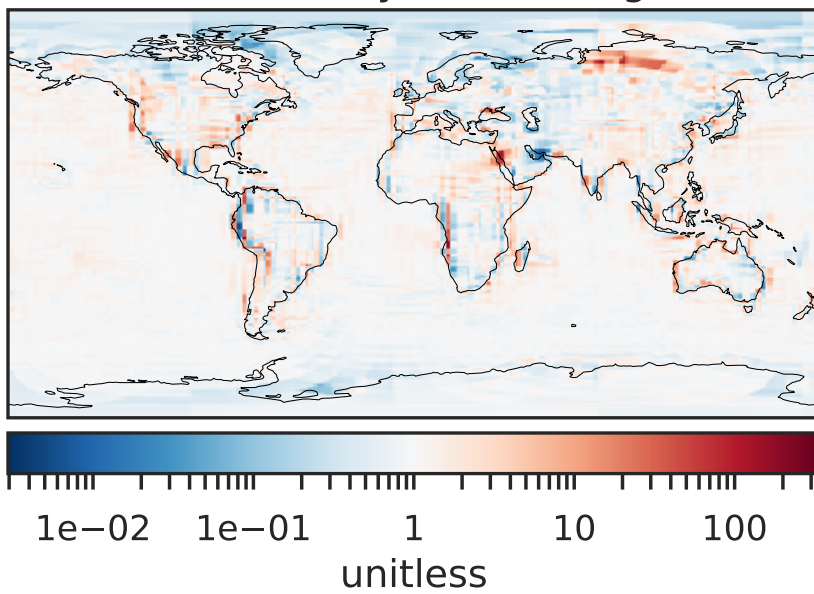
Difference (1x1.25)  
Dev - Ref, Dynamic Range



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



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



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

