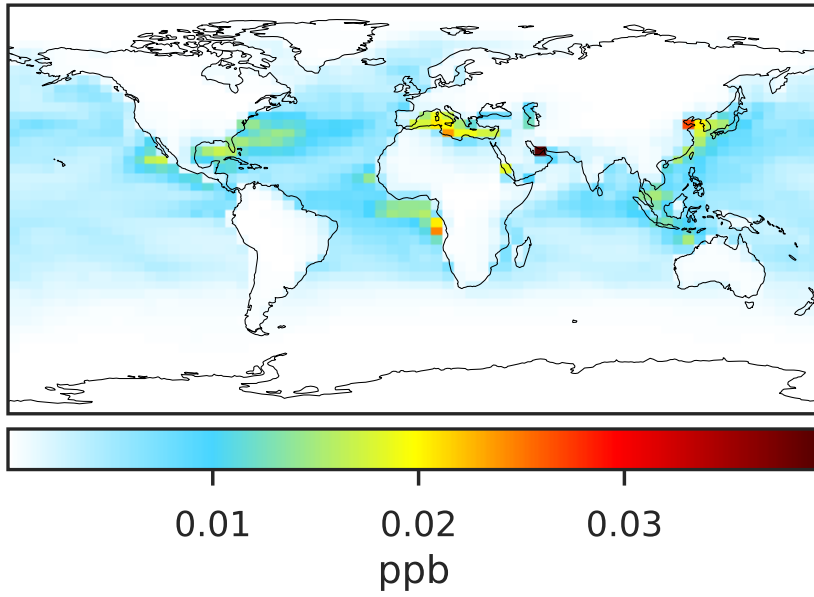
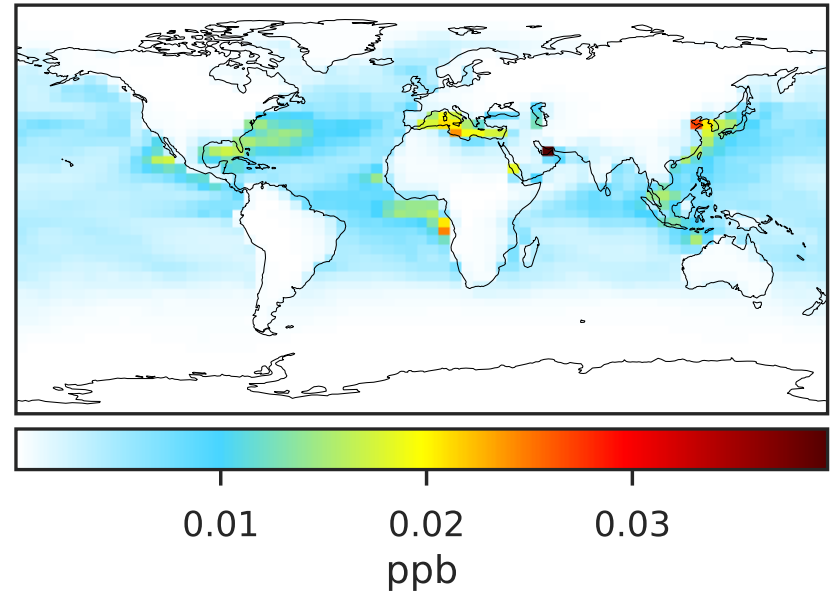


# SpeciesConcVV\_Iy (Jul2019)

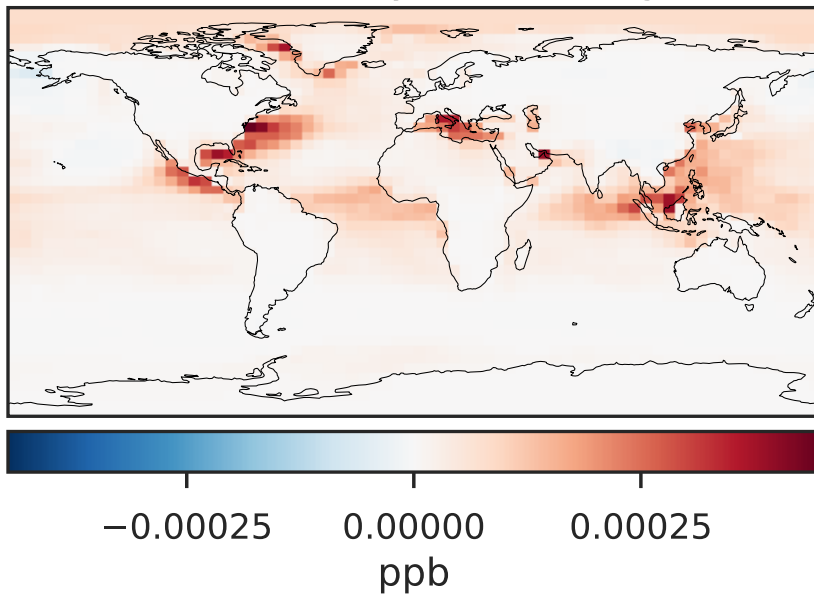
14.2.0-rc.2 (Ref)  
4.0x5.0



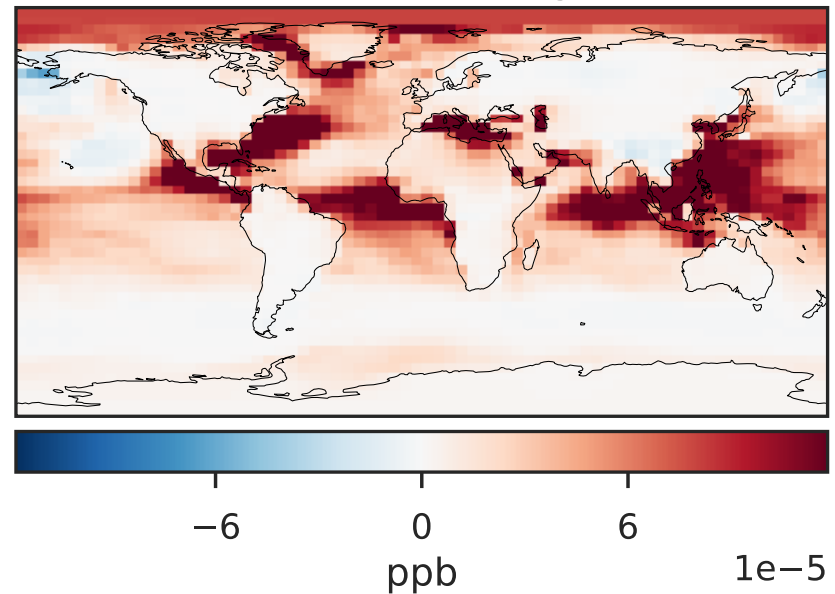
14.3.0-rc.0 (Dev)  
4.0x5.0



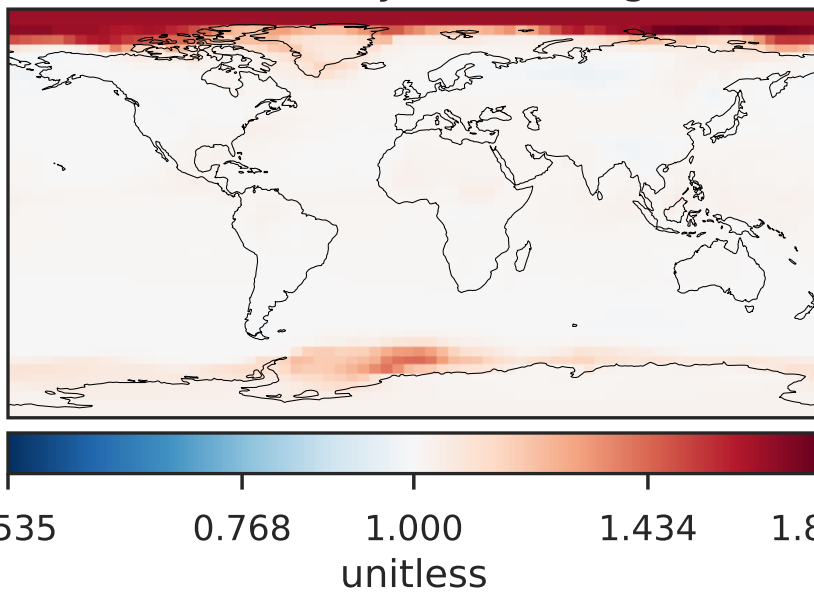
Difference  
Dev - Ref, Dynamic Range



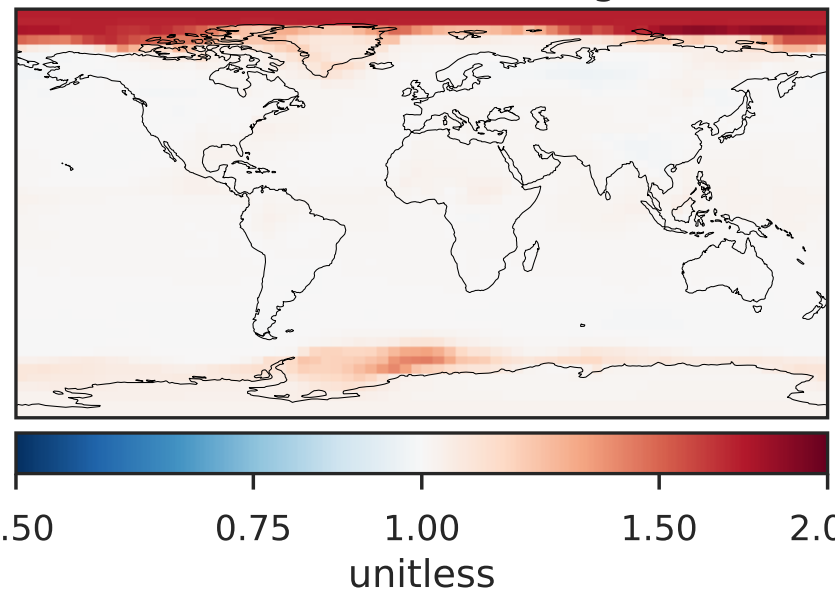
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

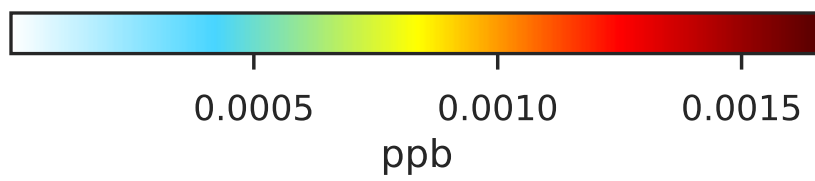
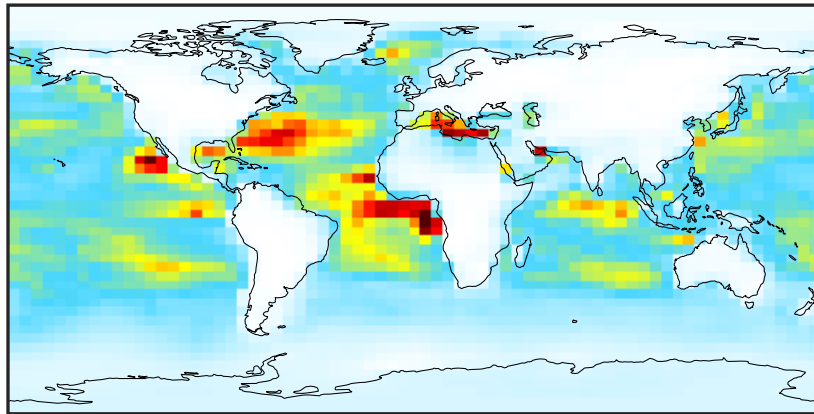


Ratio  
Dev/Ref, Fixed Range

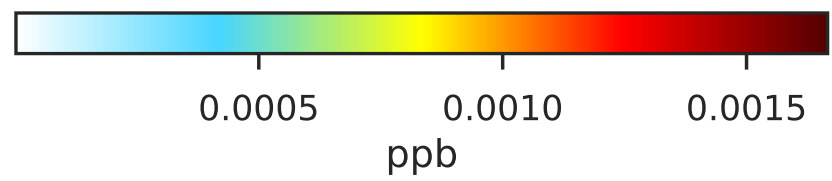
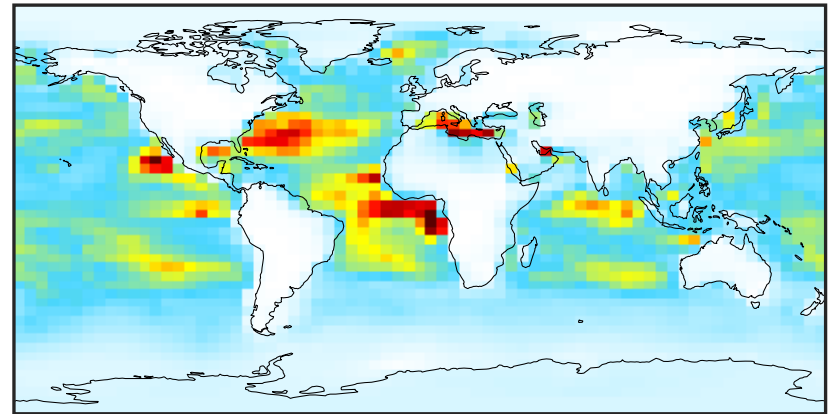


# SpeciesConcVW\_IxOy (Jul2019)

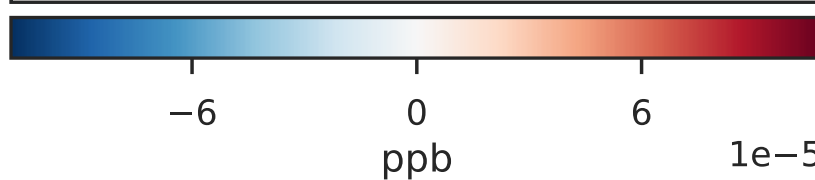
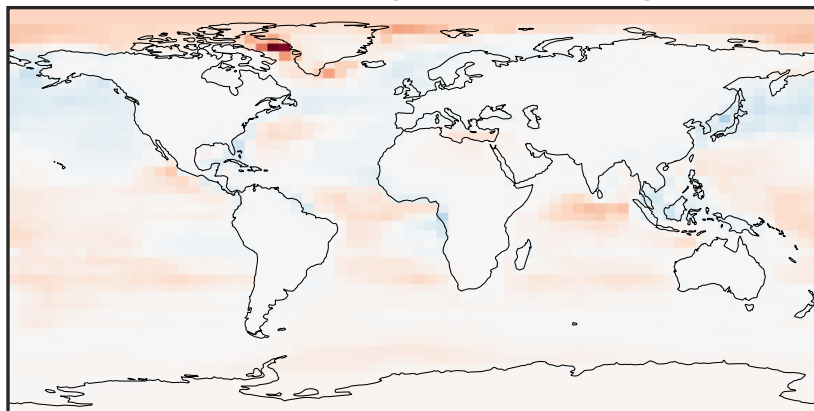
14.2.0-rc.2 (Ref)  
4.0x5.0



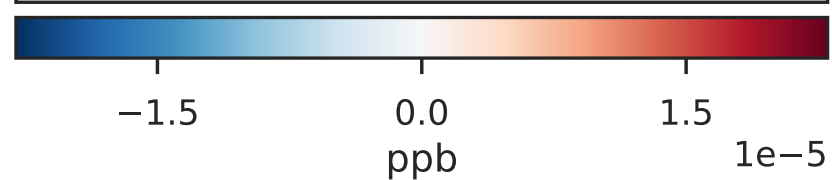
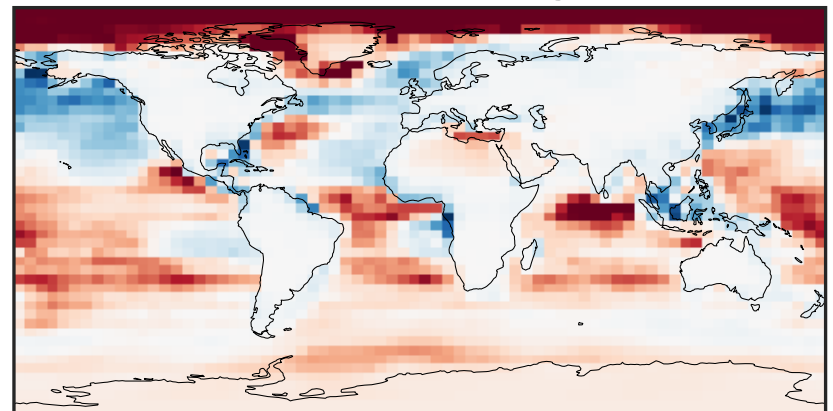
14.3.0-rc.0 (Dev)  
4.0x5.0



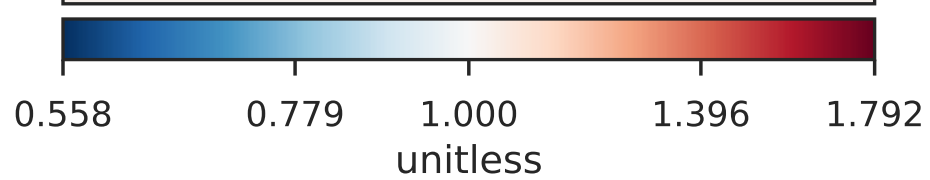
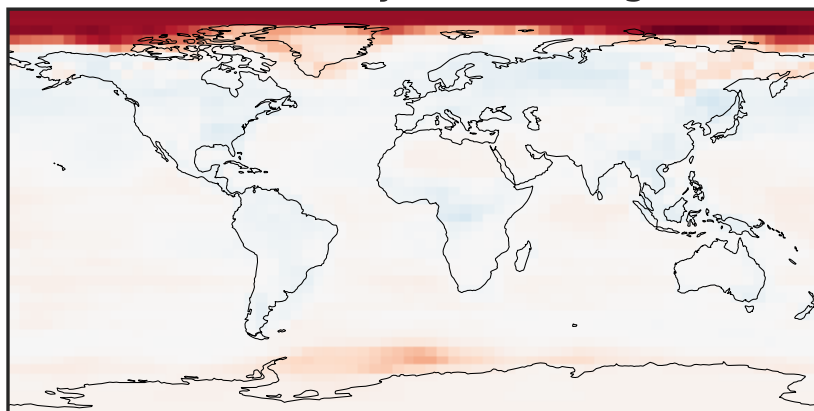
Difference  
Dev - Ref, Dynamic Range



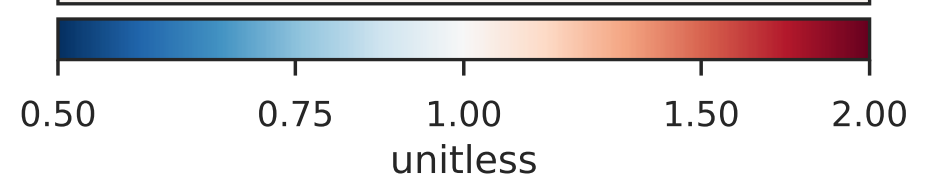
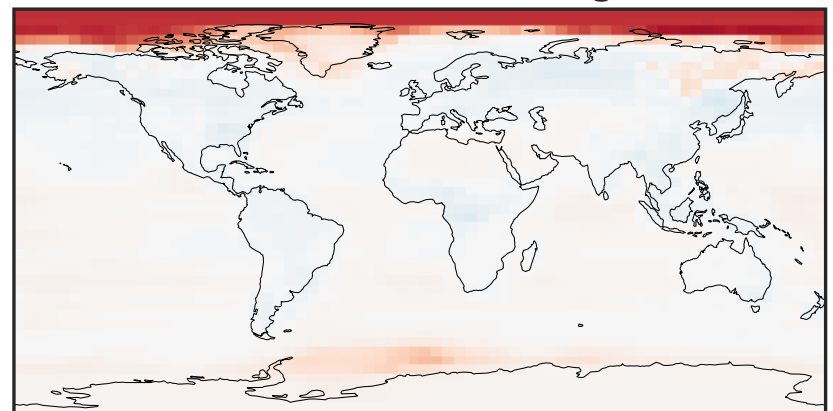
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

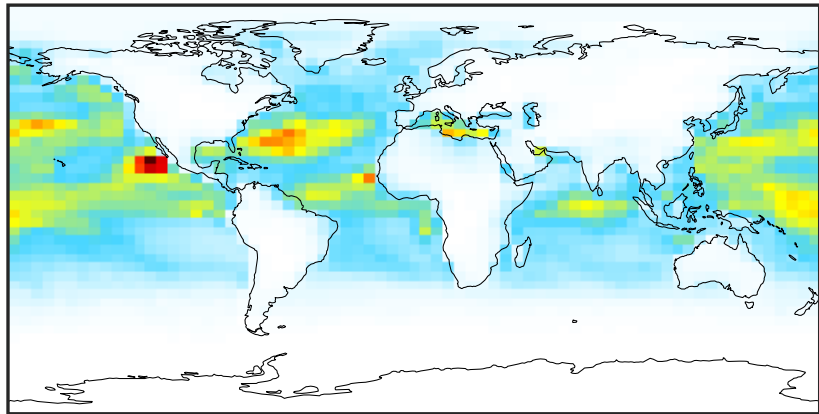


Ratio  
Dev/Ref, Fixed Range



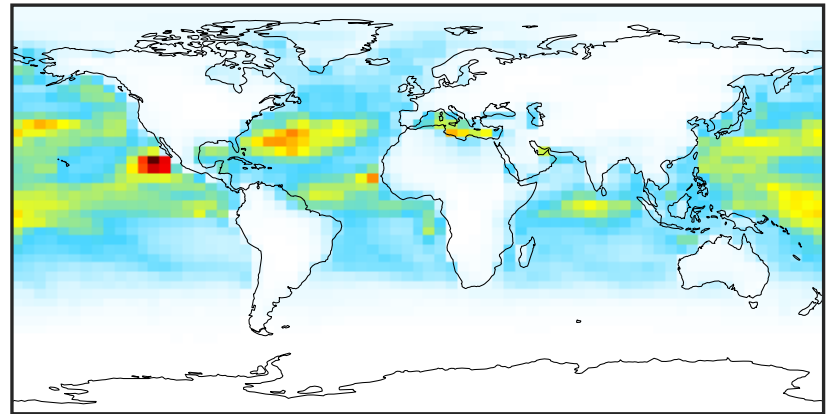
# SpeciesConcVW\_I (Jul2019)

14.2.0-rc.2 (Ref)  
4.0x5.0



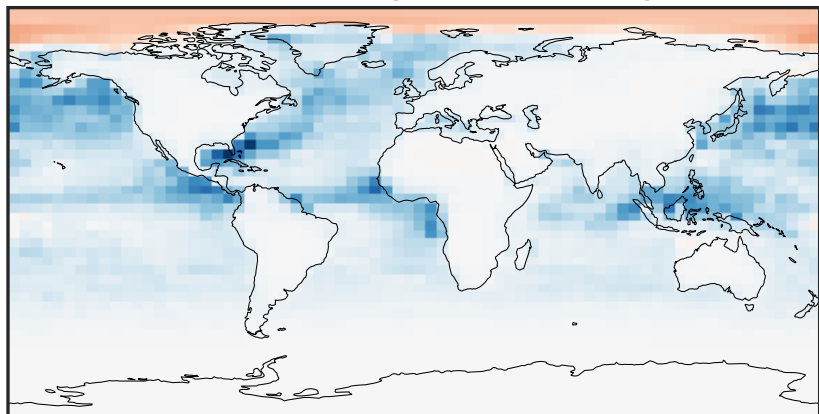
0.00000 0.00015 0.00030 0.00045  
ppb

14.3.0-rc.0 (Dev)  
4.0x5.0



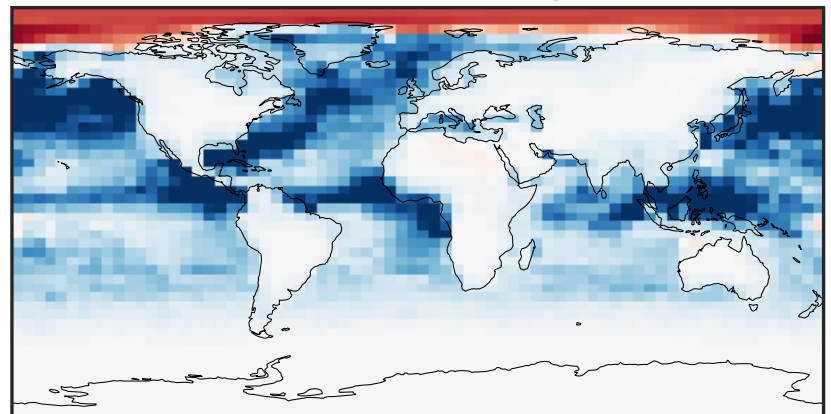
0.00000 0.00015 0.00030 0.00045  
ppb

Difference  
Dev - Ref, Dynamic Range



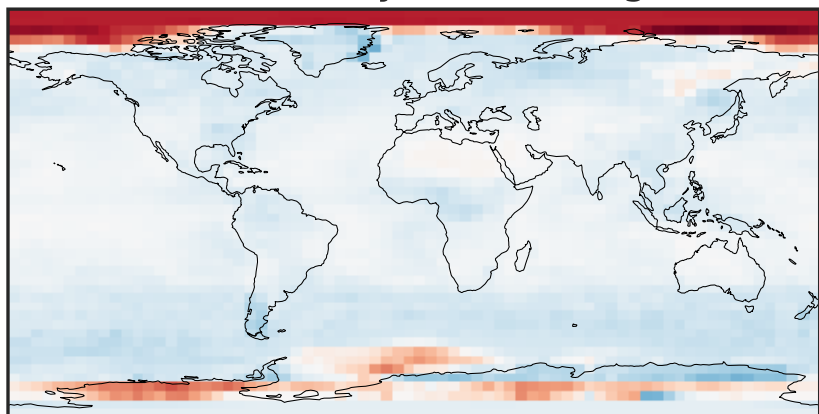
-8 0 8  
ppb  $1e-6$

Difference  
Dev - Ref, Restricted Range [5%,95%]



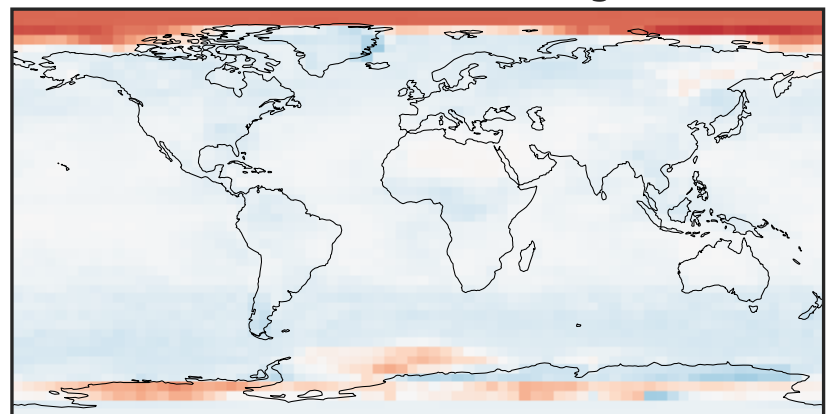
-4 0 4  
ppb  $1e-6$

Ratio  
Dev/Ref, Dynamic Range



0.602 0.801 1.000 1.330 1.660  
unitless

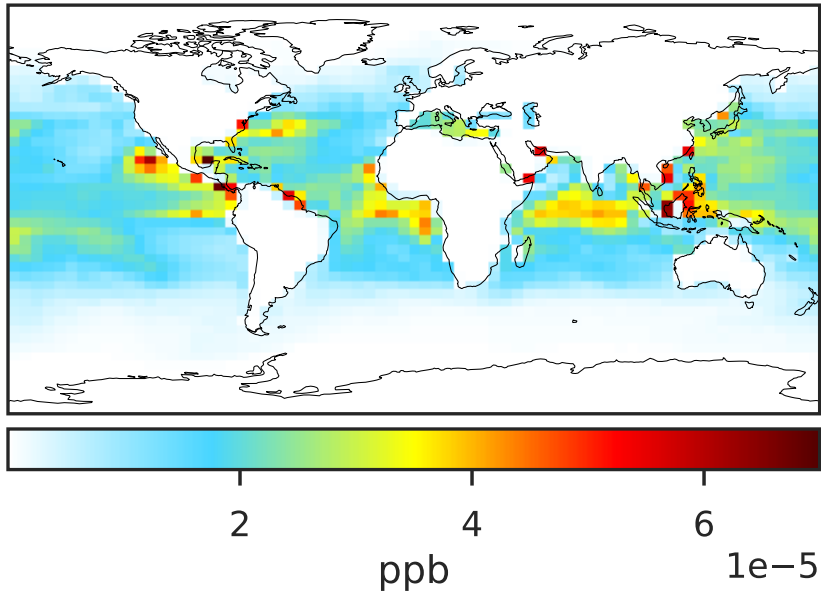
Ratio  
Dev/Ref, Fixed Range



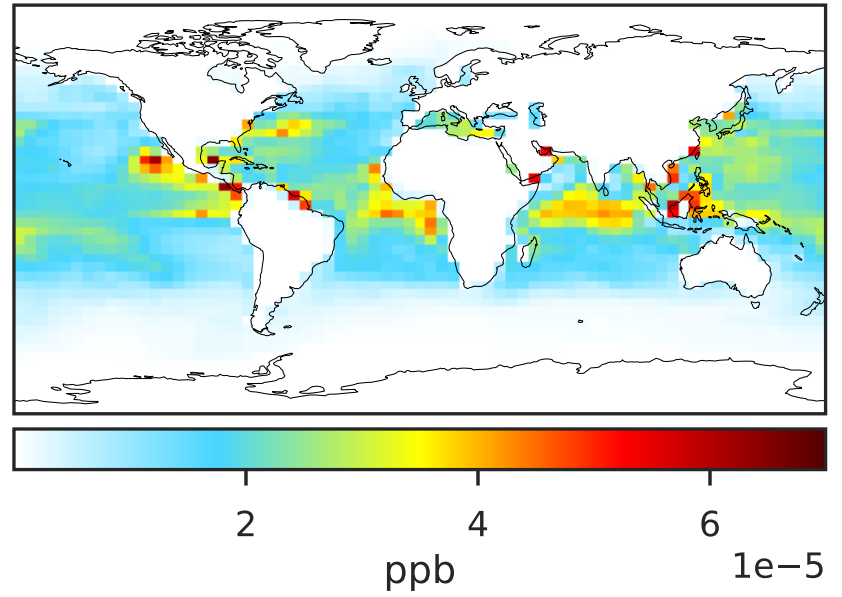
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_I2 (Jul2019)

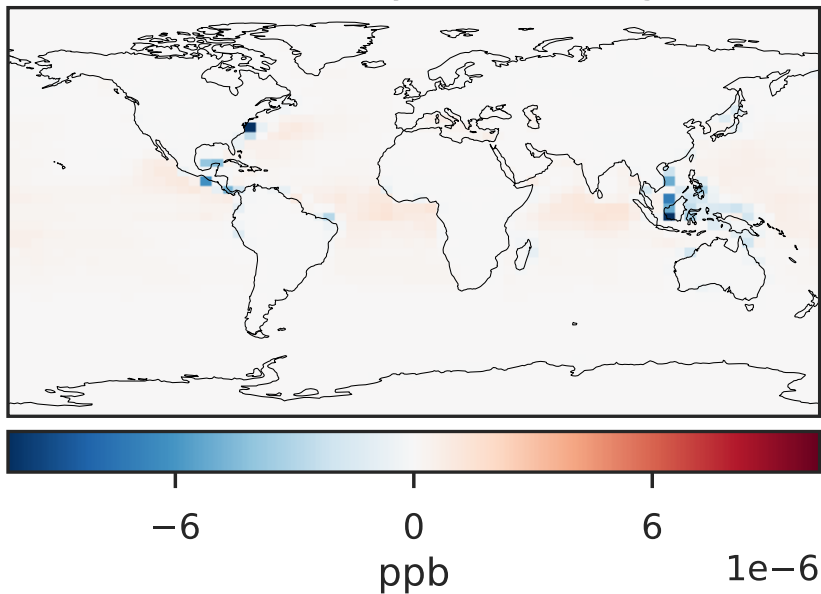
14.2.0-rc.2 (Ref)  
4.0x5.0



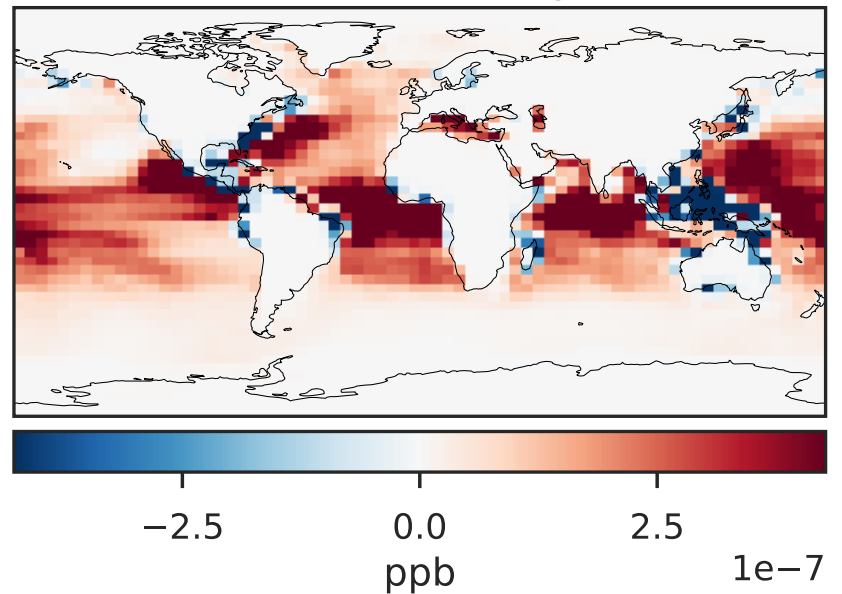
14.3.0-rc.0 (Dev)  
4.0x5.0



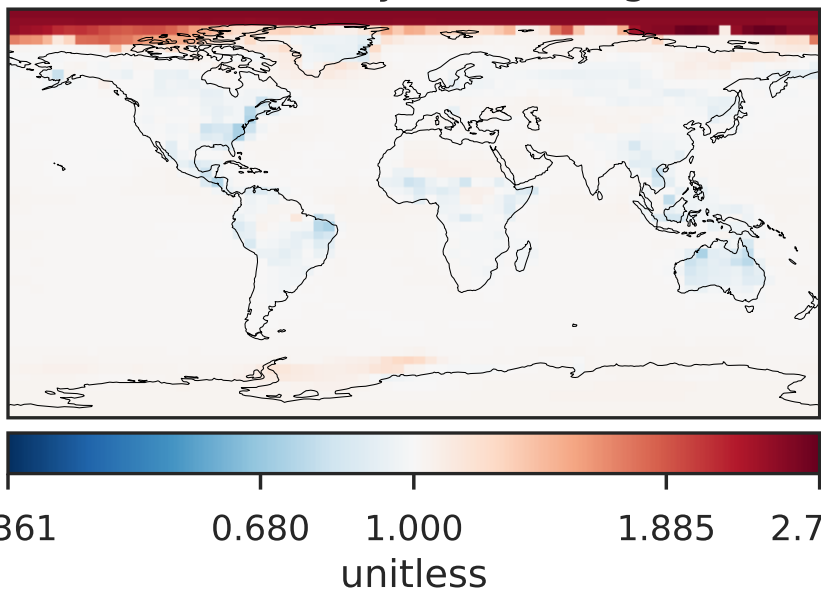
Difference  
Dev - Ref, Dynamic Range



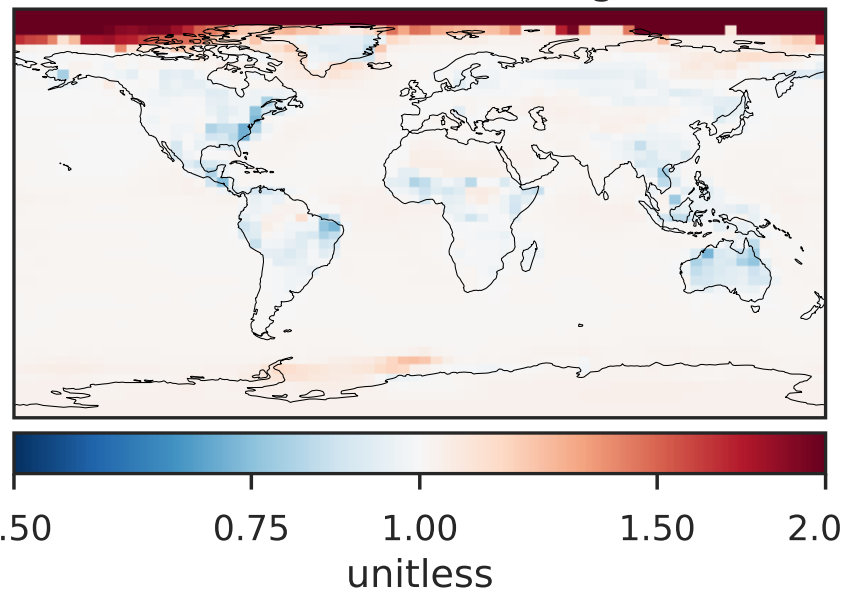
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

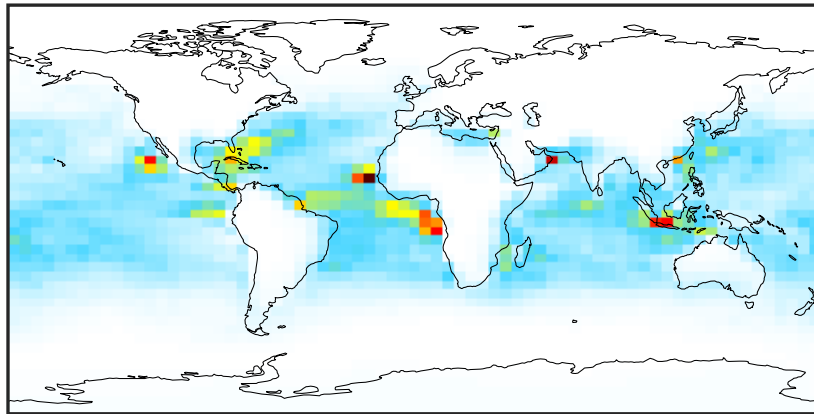


Ratio  
Dev/Ref, Fixed Range



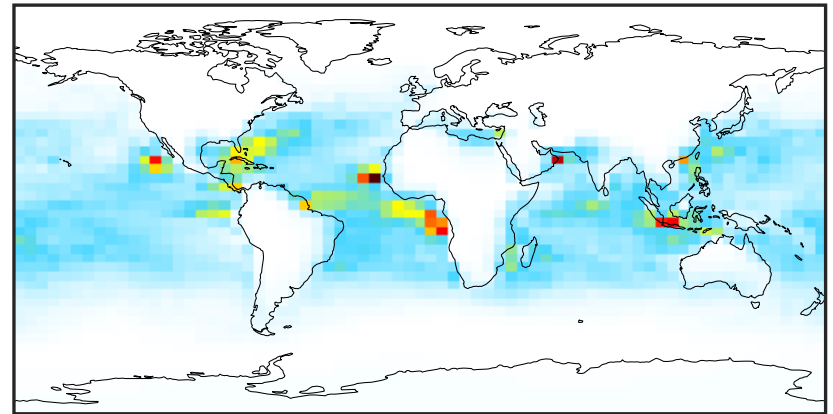
# SpeciesConcVV\_IBr (Jul2019)

14.2.0-rc.2 (Ref)  
4.0x5.0



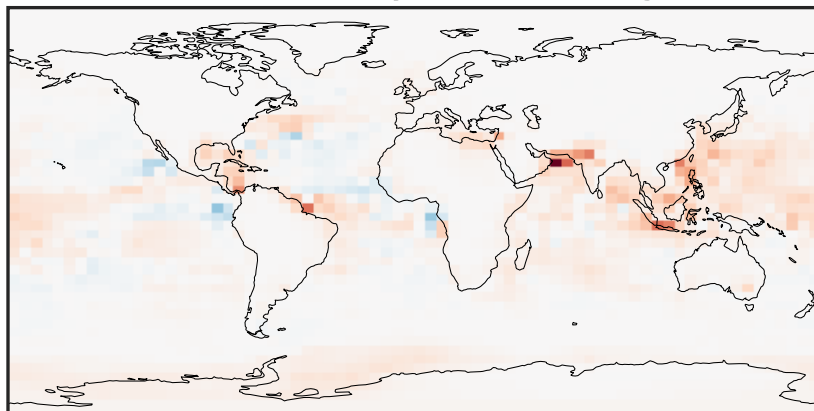
0.00006 0.00012 0.00018  
ppb

14.3.0-rc.0 (Dev)  
4.0x5.0



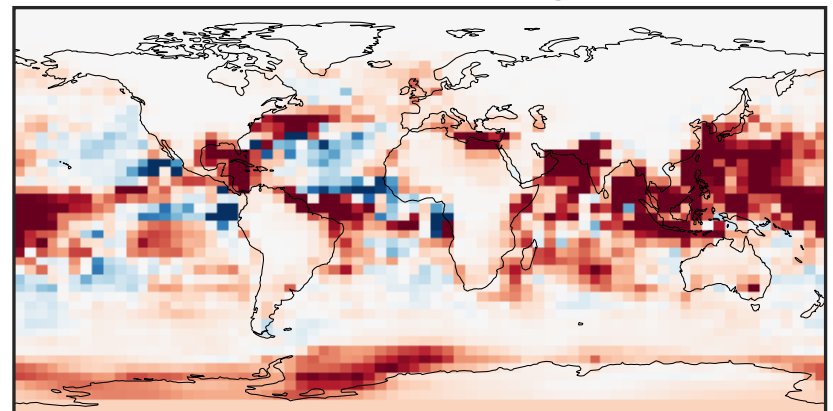
0.00006 0.00012 0.00018  
ppb

Difference  
Dev - Ref, Dynamic Range



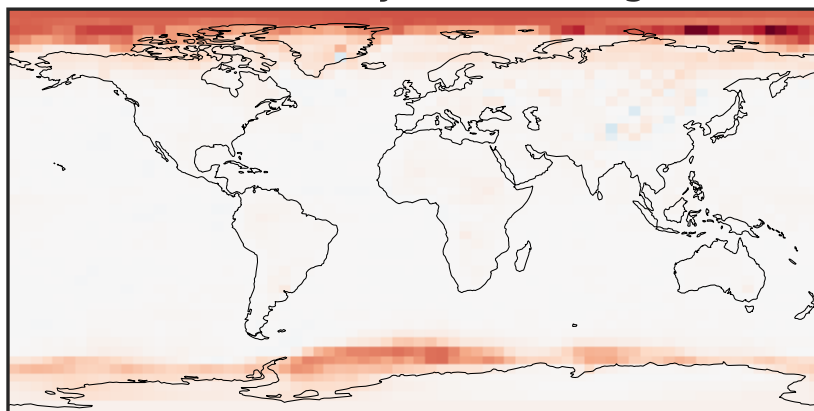
-1.5 0.0 1.5  
ppb  $1e-6$

Difference  
Dev - Ref, Restricted Range [5%,95%]



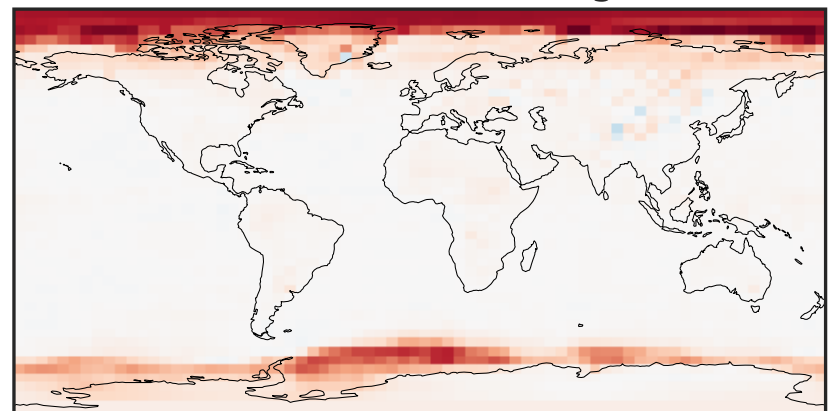
-2 0 2  
ppb  $1e-7$

Ratio  
Dev/Ref, Dynamic Range



0.385 0.692 1.000 1.800 2.600  
unitless

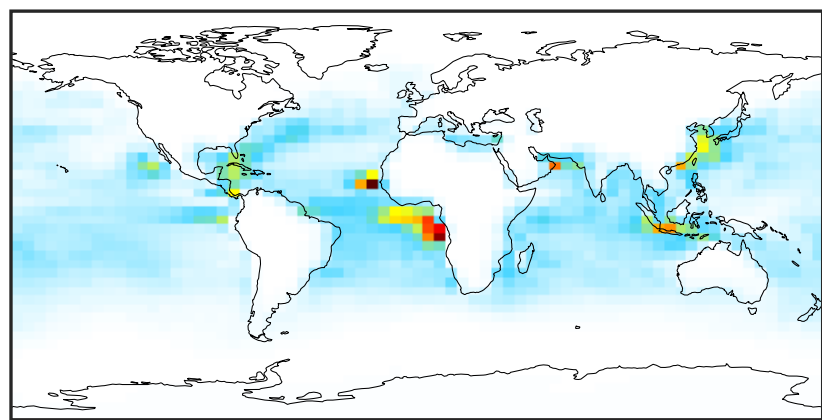
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

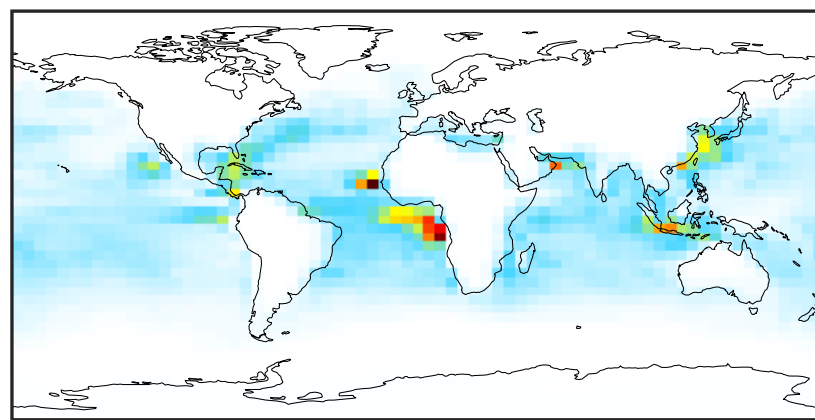
# SpeciesConcVW\_ICI (Jul2019)

14.2.0-rc.2 (Ref)  
4.0x5.0



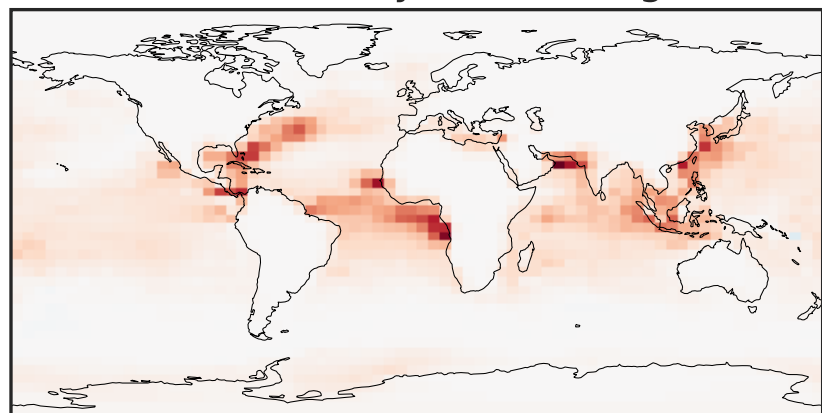
0.001 0.002 0.003  
ppb

14.3.0-rc.0 (Dev)  
4.0x5.0



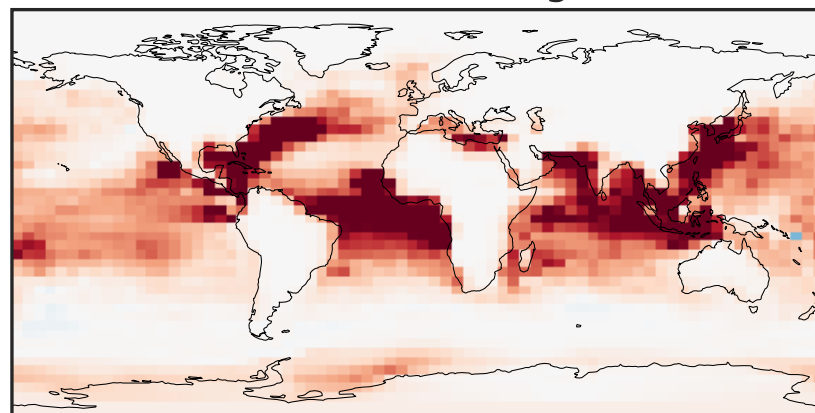
0.001 0.002 0.003  
ppb

Difference  
Dev - Ref, Dynamic Range



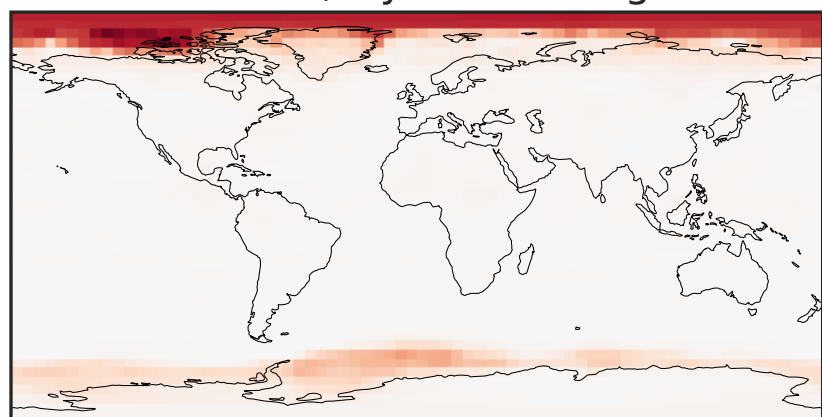
-2 0 2  
ppb  $1e-5$

Difference  
Dev - Ref, Restricted Range [5%,95%]



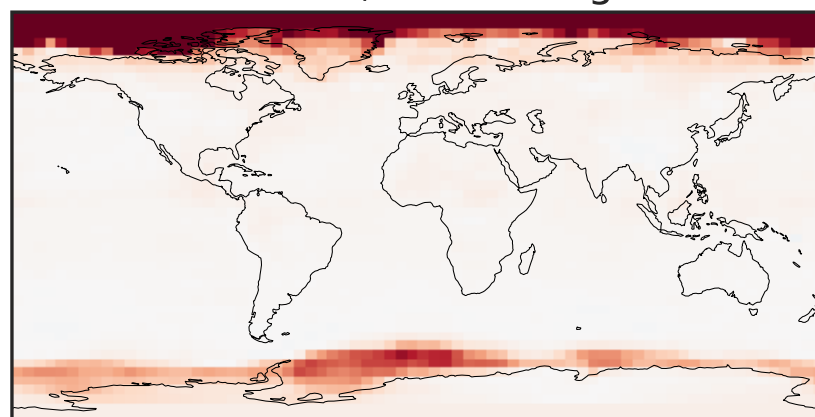
-6 0 6  
ppb  $1e-6$

Ratio  
Dev/Ref, Dynamic Range



0.243 0.622 1.000 2.554 4.108  
unitless

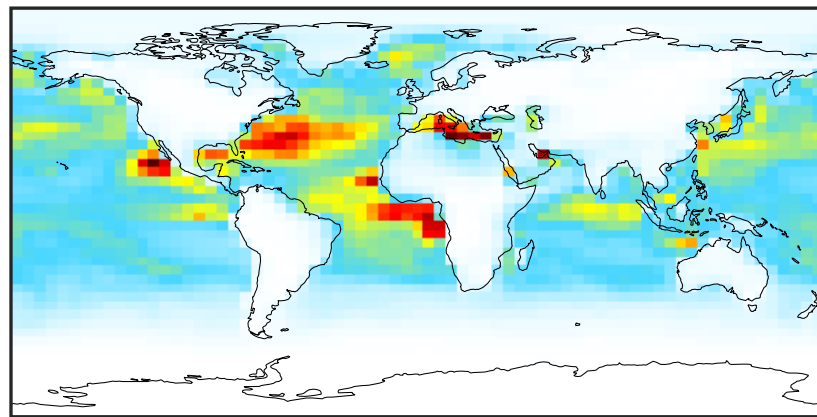
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

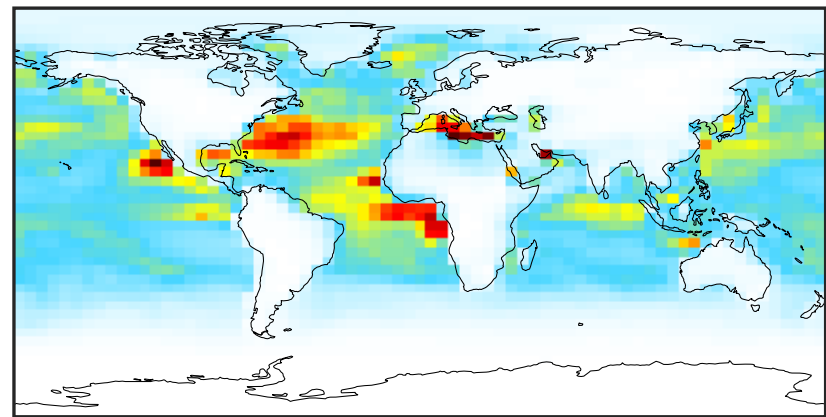
# SpeciesConcVV\_IO (Jul2019)

14.2.0-rc.2 (Ref)  
4.0x5.0



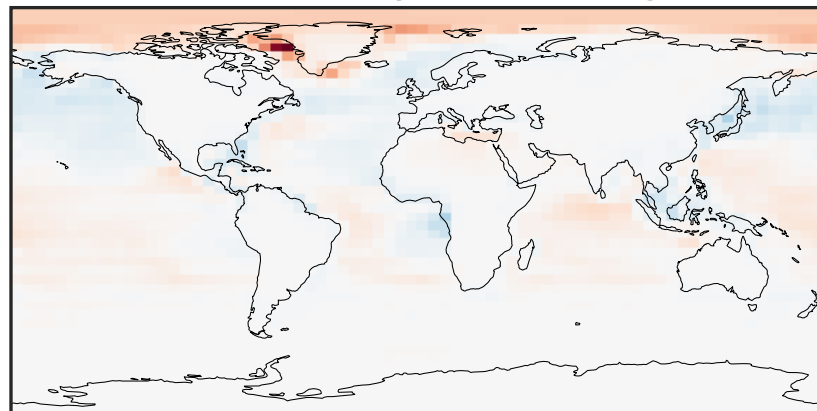
0.0004 0.0008 0.0012  
ppb

14.3.0-rc.0 (Dev)  
4.0x5.0



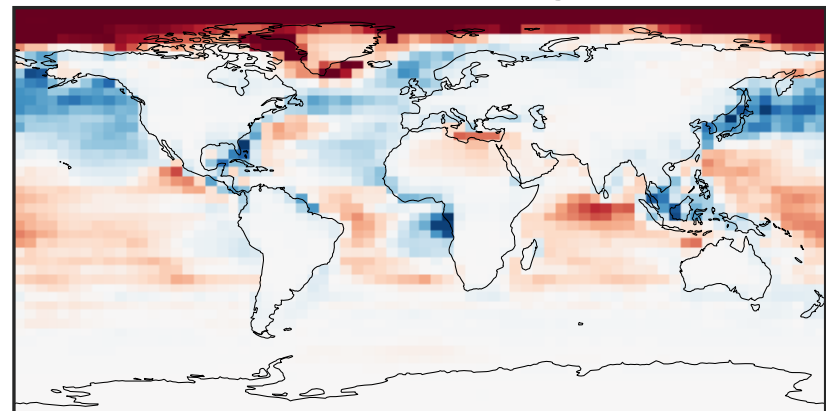
0.0004 0.0008 0.0012  
ppb

Difference  
Dev - Ref, Dynamic Range



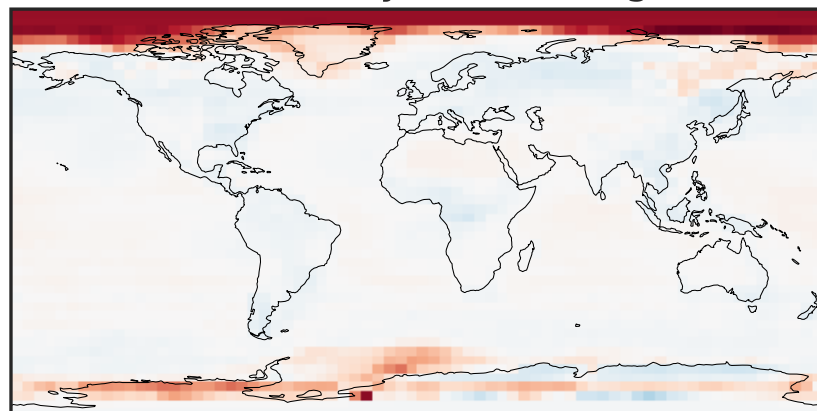
-5 0 5  
ppb  $1e-5$

Difference  
Dev - Ref, Restricted Range [5%,95%]



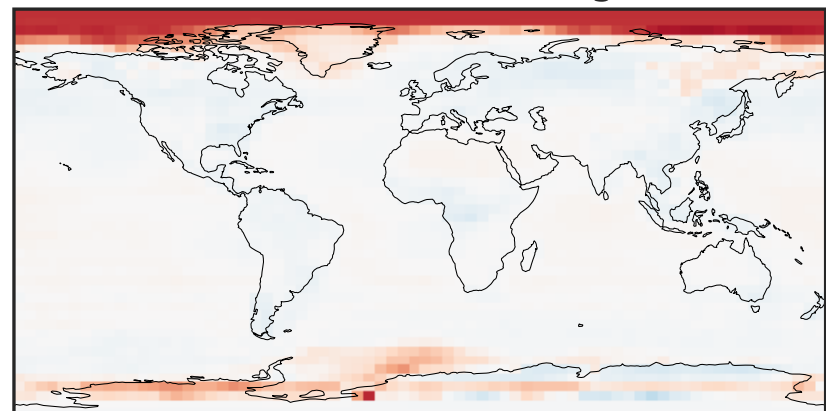
-1.5 0.0 1.5  
ppb  $1e-5$

Ratio  
Dev/Ref, Dynamic Range



0.561 0.780 1.000 1.391 1.783  
unitless

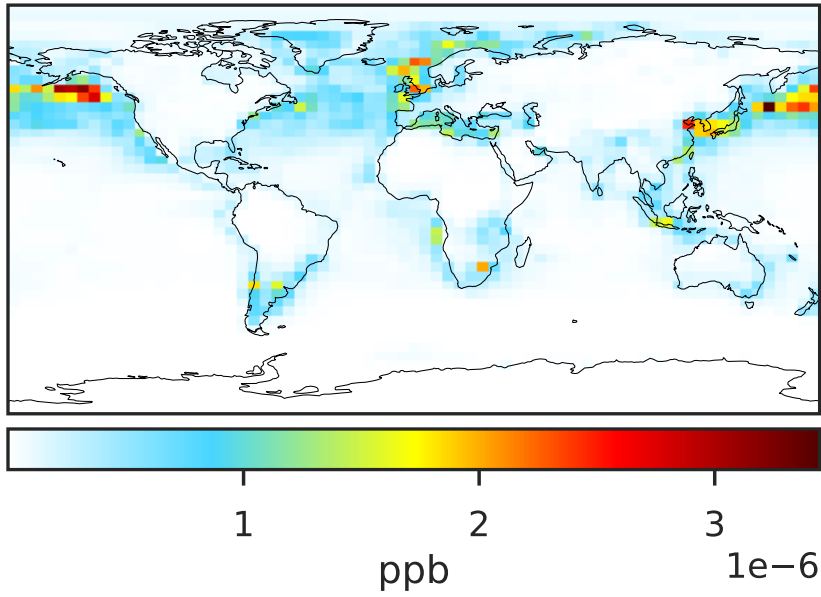
Ratio  
Dev/Ref, Fixed Range



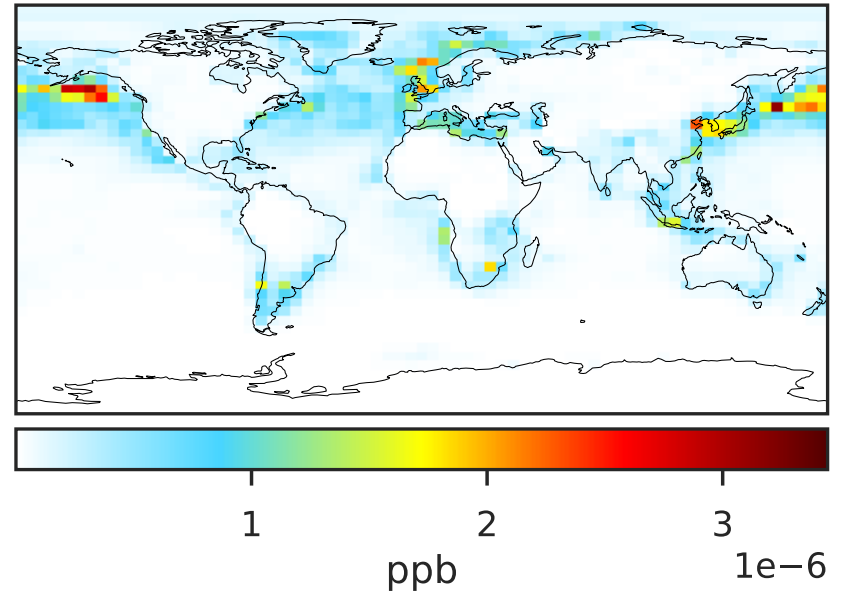
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_IONO (Jul2019)

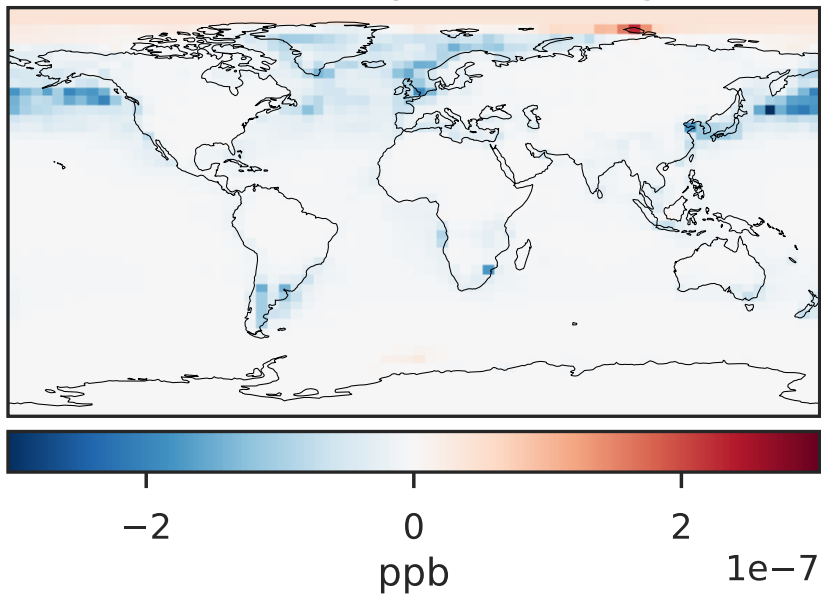
14.2.0-rc.2 (Ref)  
4.0x5.0



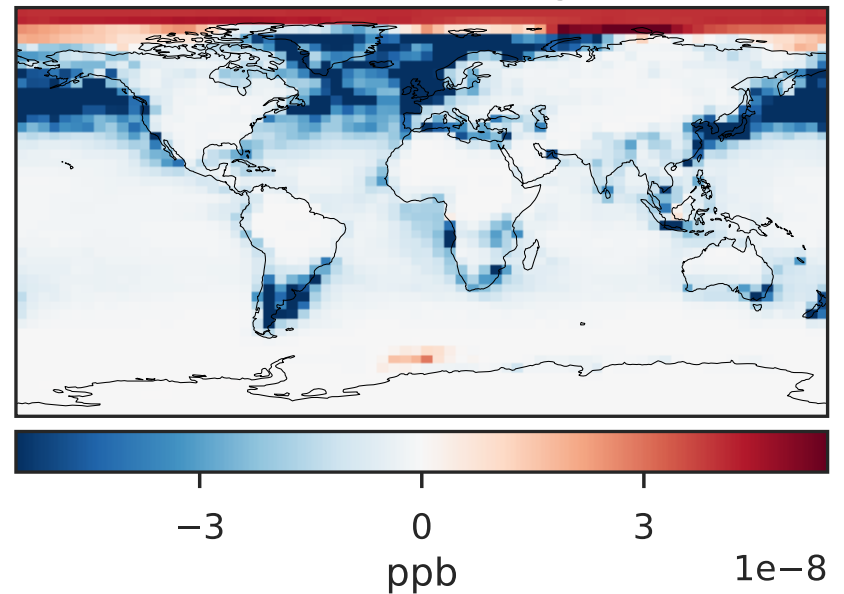
14.3.0-rc.0 (Dev)  
4.0x5.0



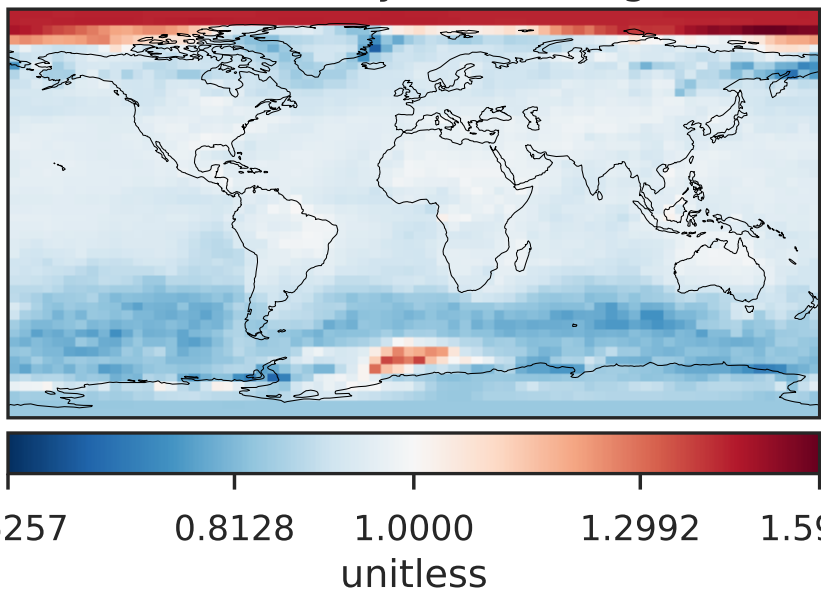
Difference  
Dev - Ref, Dynamic Range



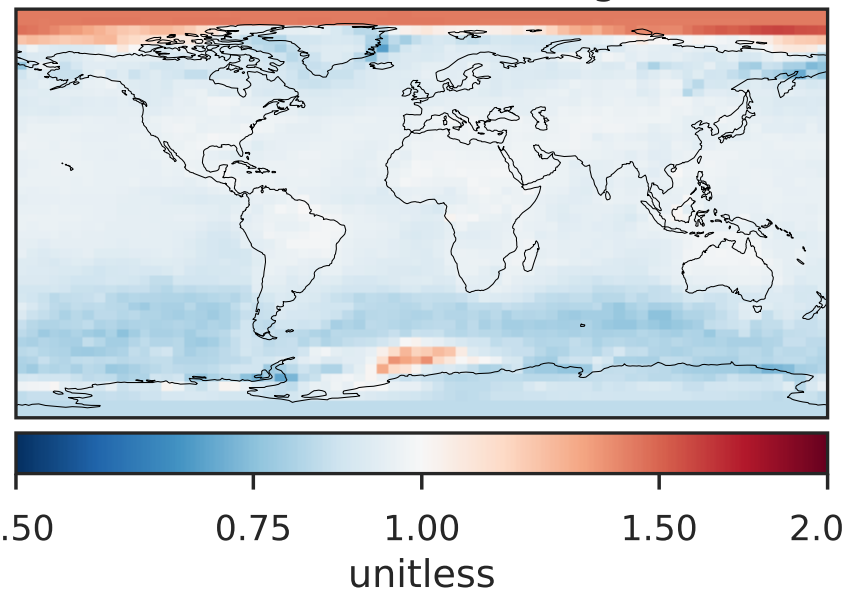
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



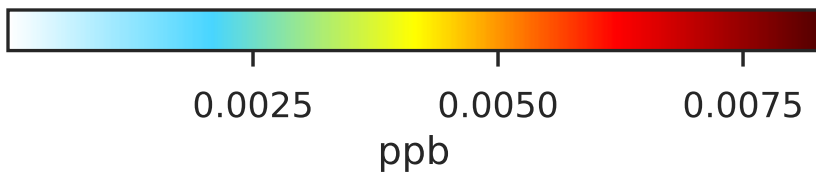
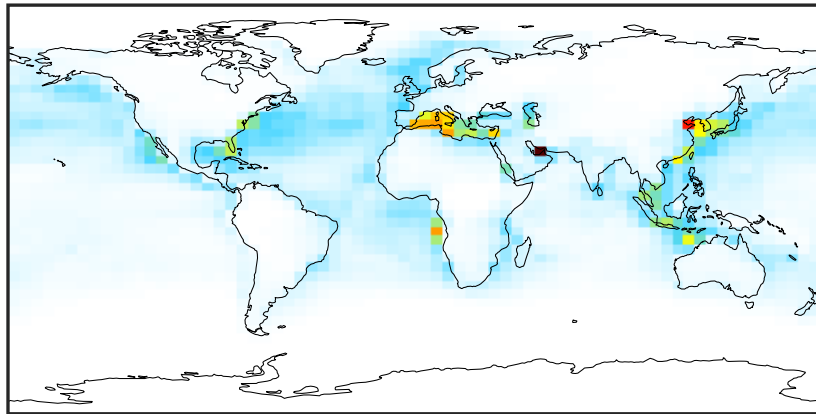
Ratio  
Dev/Ref, Fixed Range



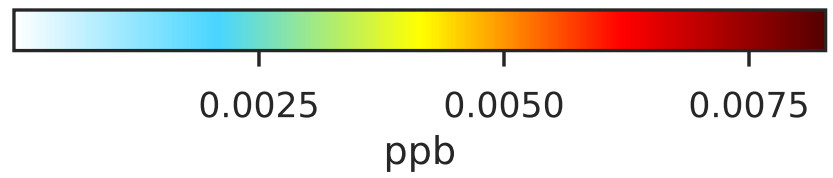
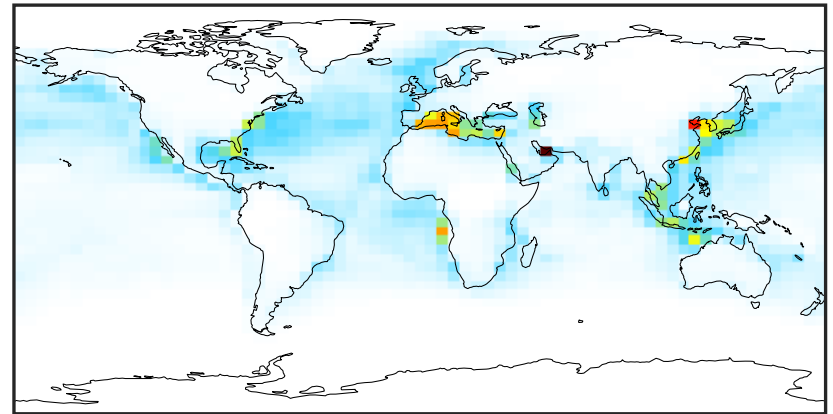


# SpeciesConcVV\_IONO2 (Jul2019)

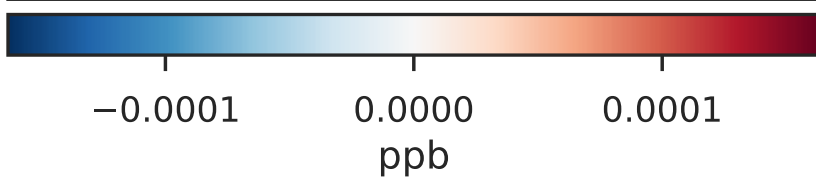
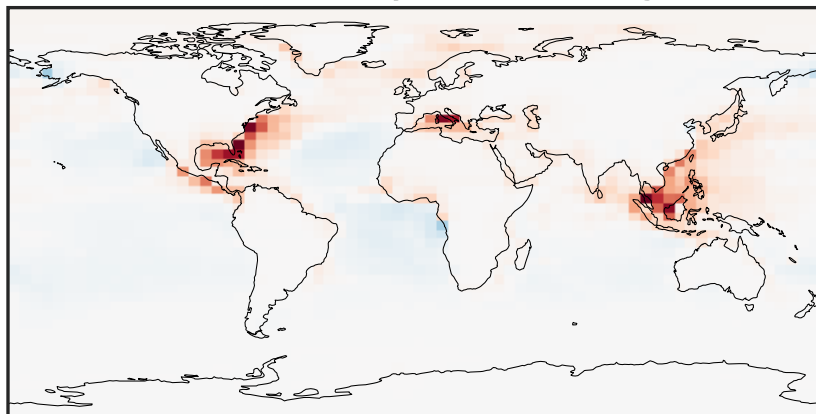
14.2.0-rc.2 (Ref)  
4.0x5.0



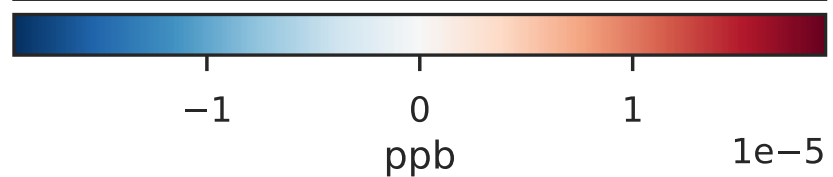
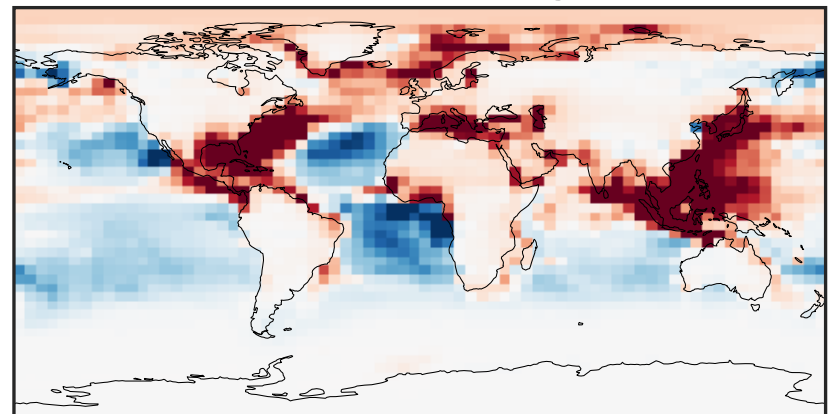
14.3.0-rc.0 (Dev)  
4.0x5.0



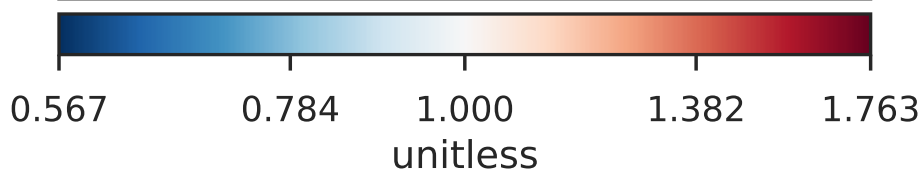
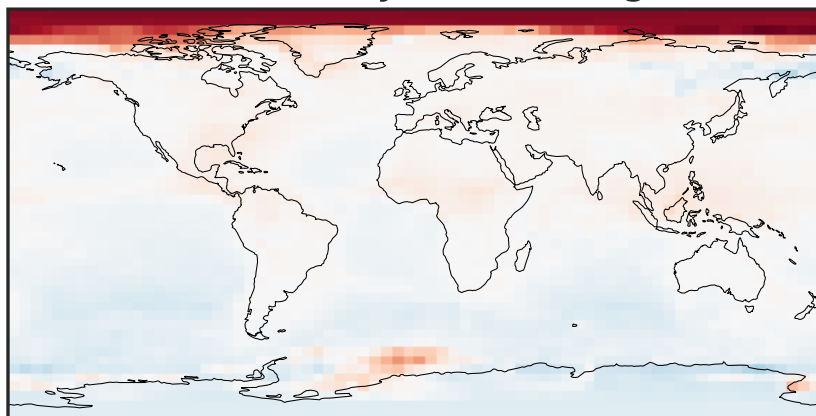
Difference  
Dev - Ref, Dynamic Range



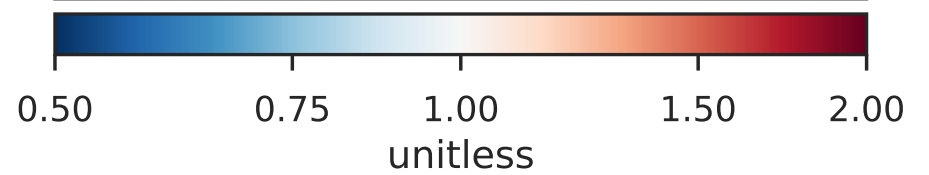
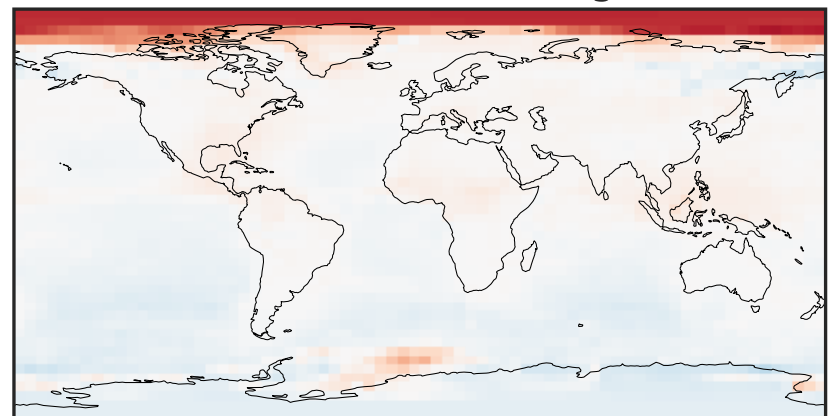
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

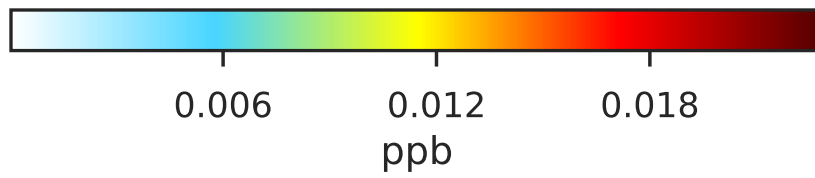
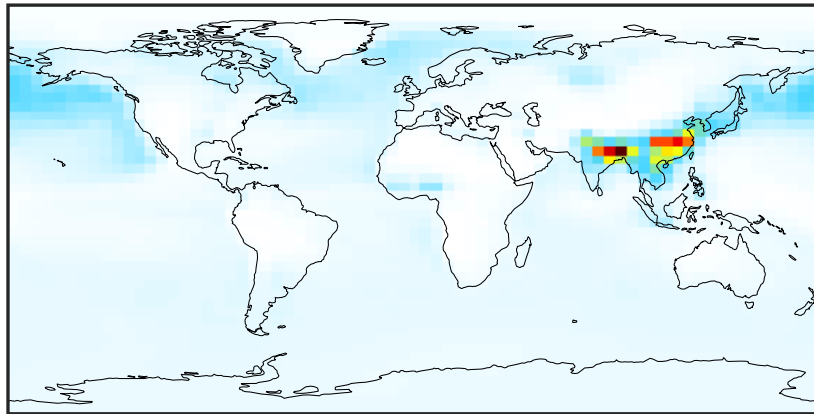


Ratio  
Dev/Ref, Fixed Range

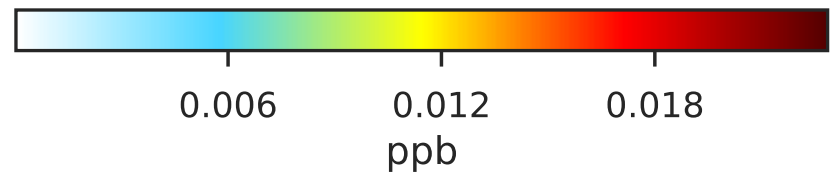
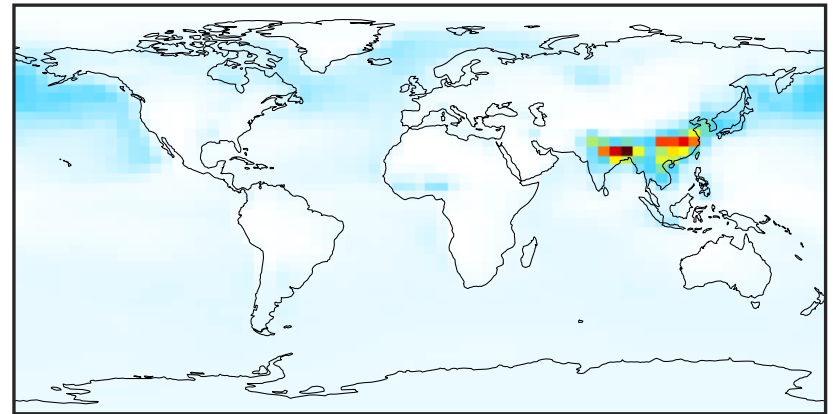


# SpeciesConcVV\_CH3I (Jul2019)

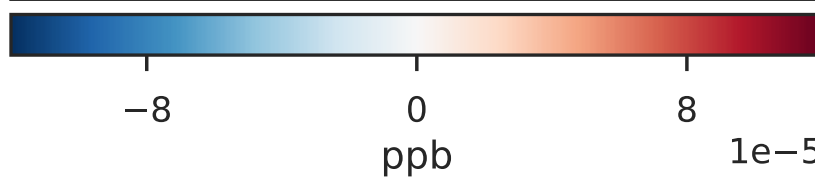
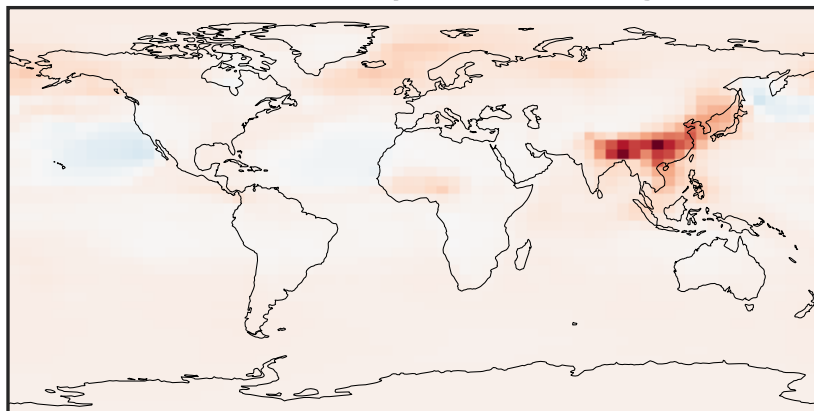
14.2.0-rc.2 (Ref)  
4.0x5.0



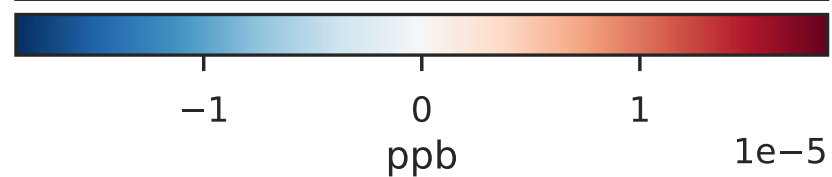
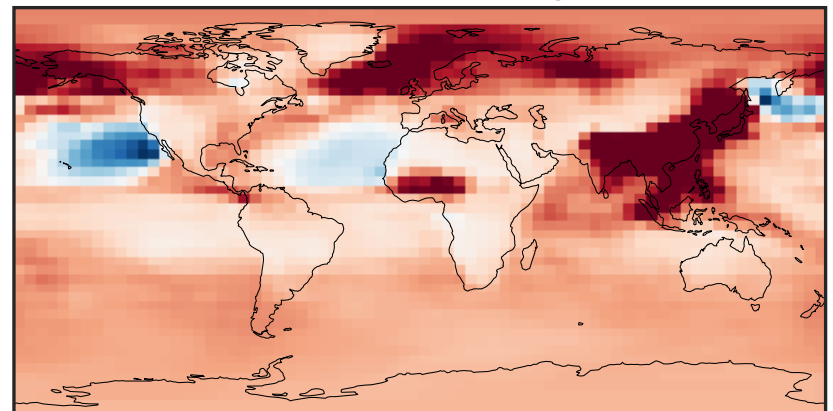
14.3.0-rc.0 (Dev)  
4.0x5.0



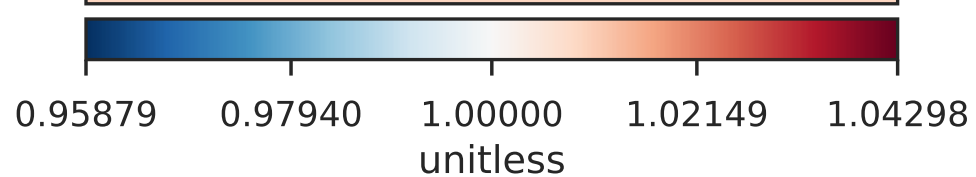
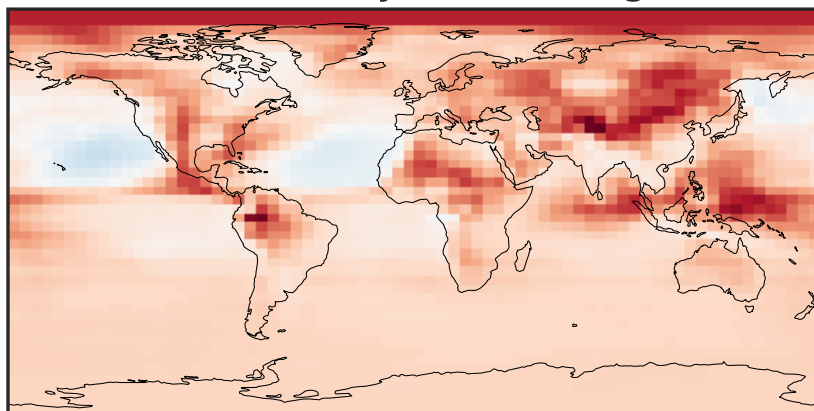
Difference  
Dev - Ref, Dynamic Range



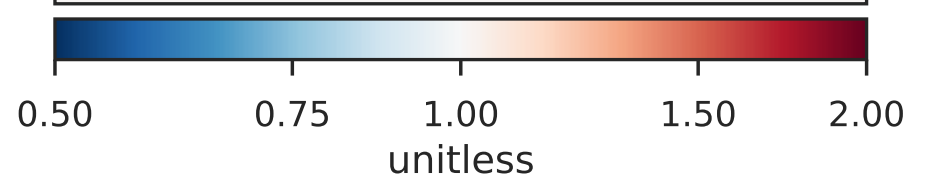
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

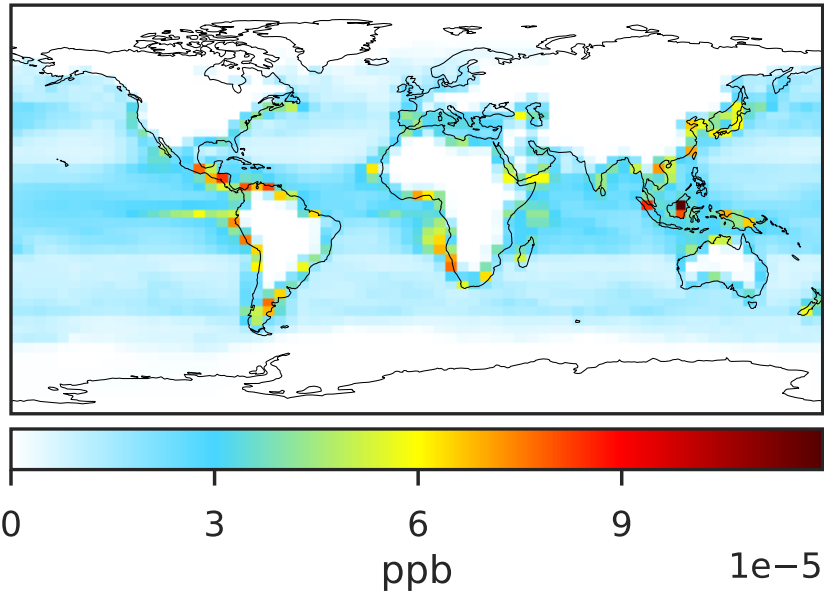


Ratio  
Dev/Ref, Fixed Range

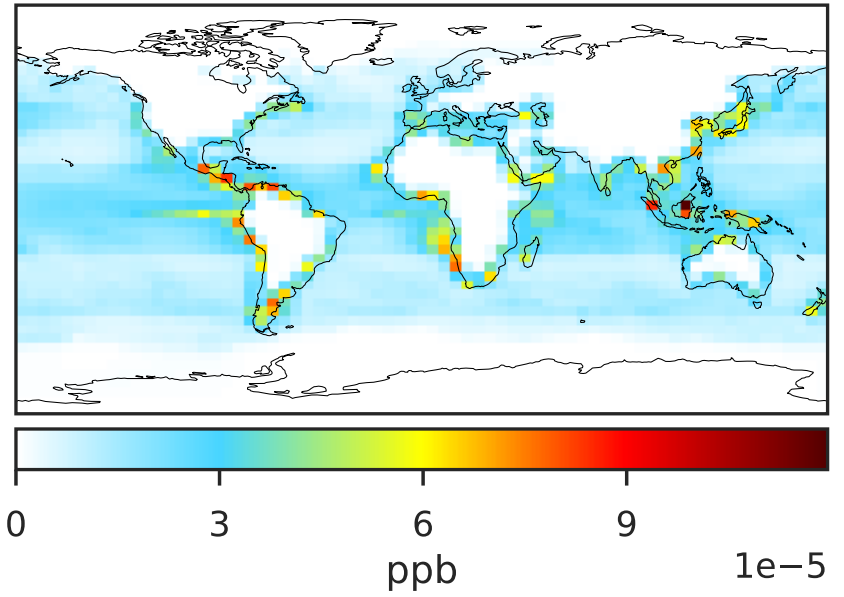


# SpeciesConcVV\_CH2I2 (Jul2019)

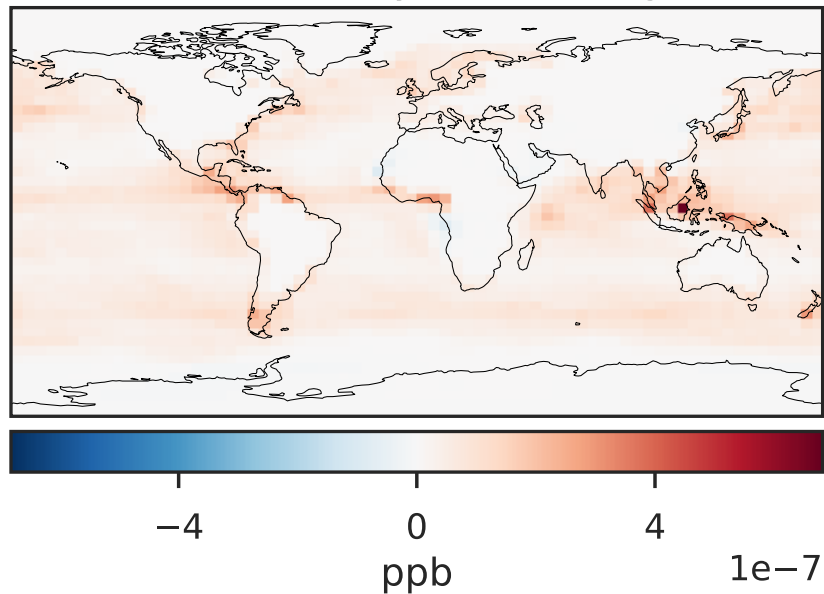
14.2.0-rc.2 (Ref)  
4.0x5.0



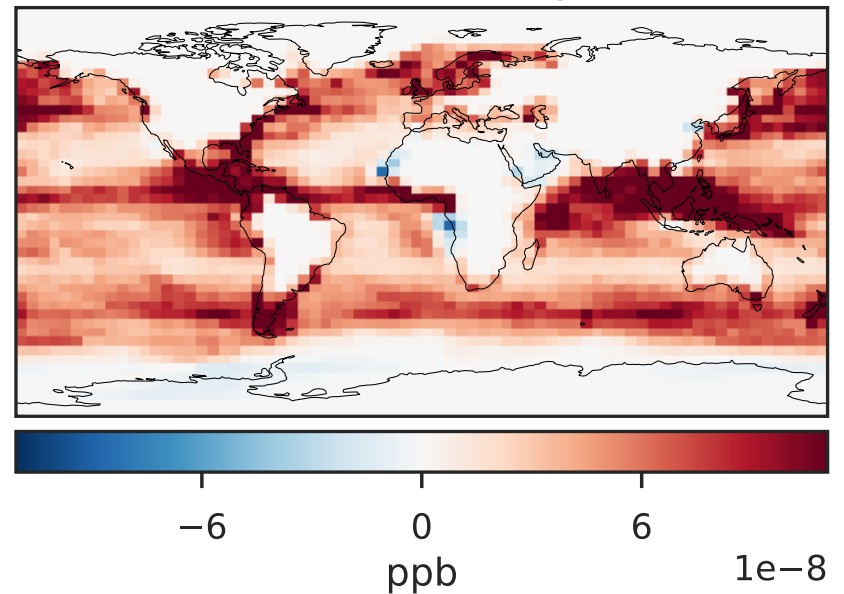
14.3.0-rc.0 (Dev)  
4.0x5.0



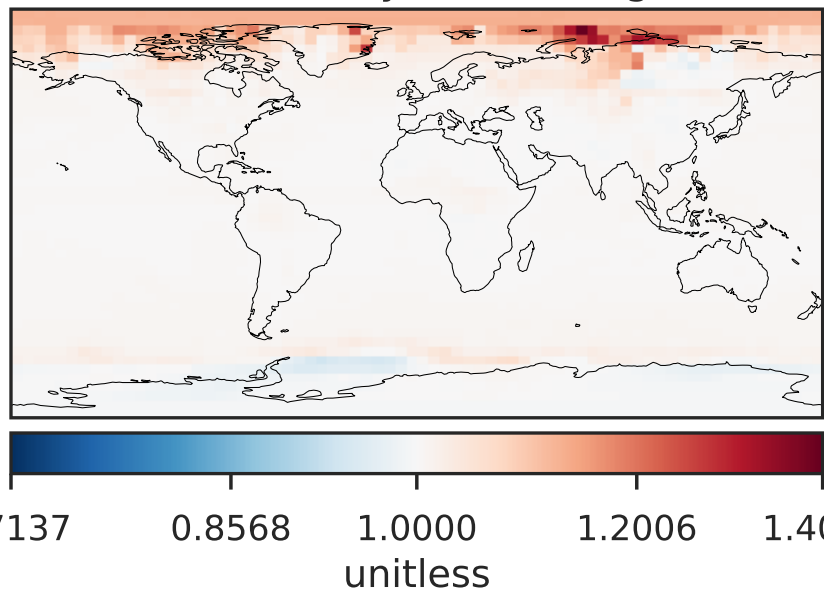
Difference  
Dev - Ref, Dynamic Range



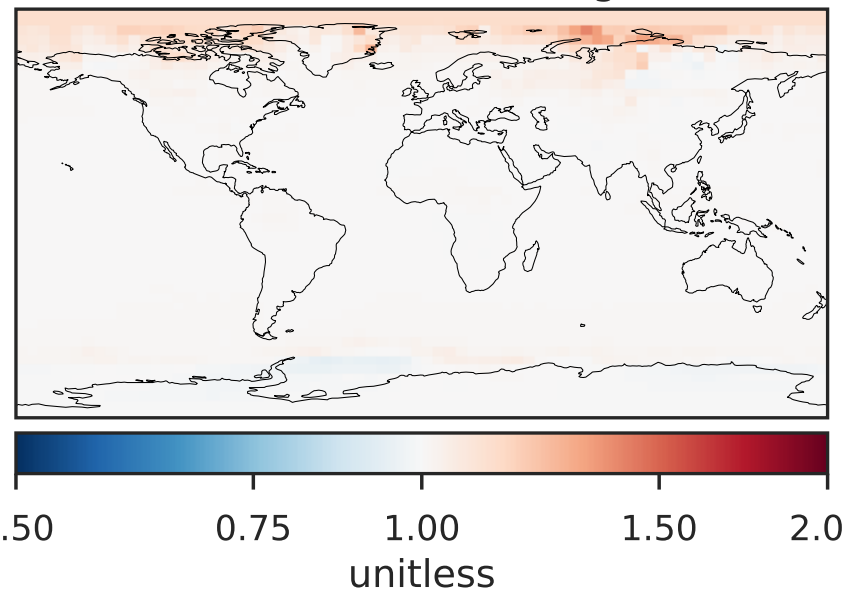
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

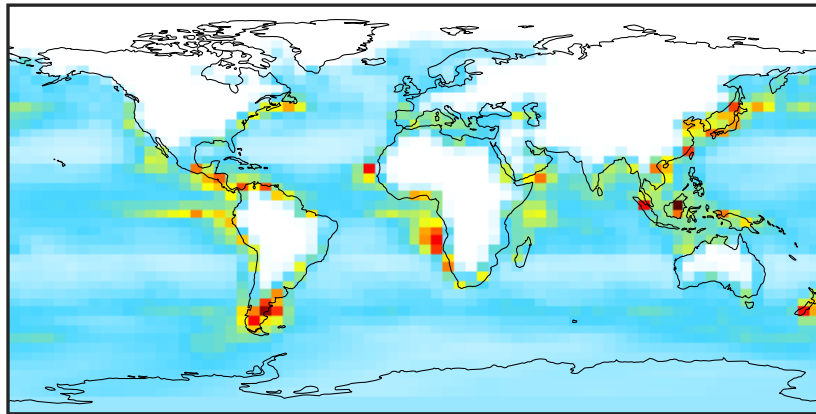


Ratio  
Dev/Ref, Fixed Range



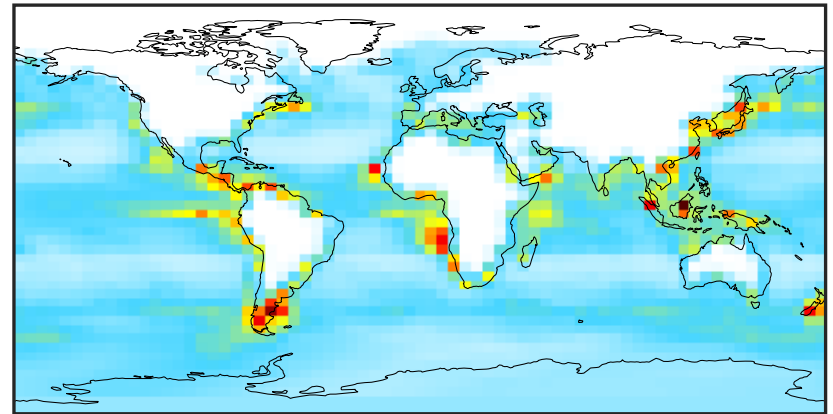
# SpeciesConcVV\_CH2ICI (Jul2019)

14.2.0-rc.2 (Ref)  
4.0x5.0



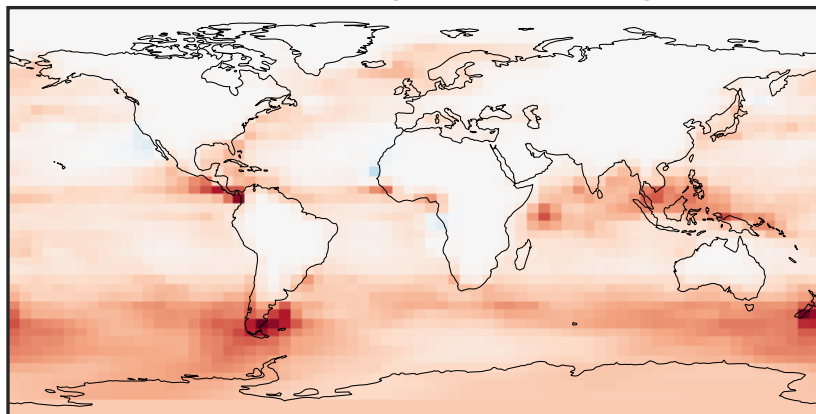
0.00015 0.00030 0.00045  
ppb

14.3.0-rc.0 (Dev)  
4.0x5.0



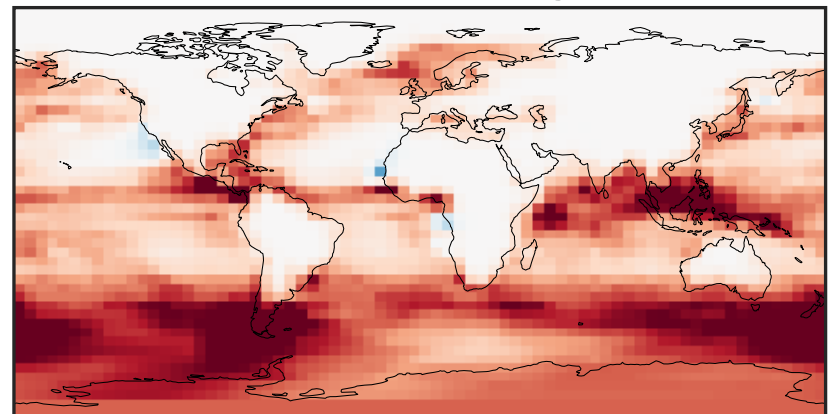
0.00015 0.00030 0.00045  
ppb

Difference  
Dev - Ref, Dynamic Range



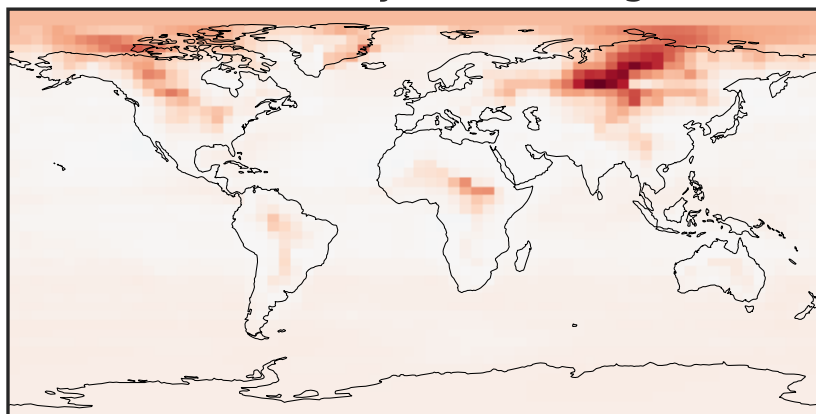
-5 0 5  
ppb  $1e-6$

Difference  
Dev - Ref, Restricted Range [5%,95%]



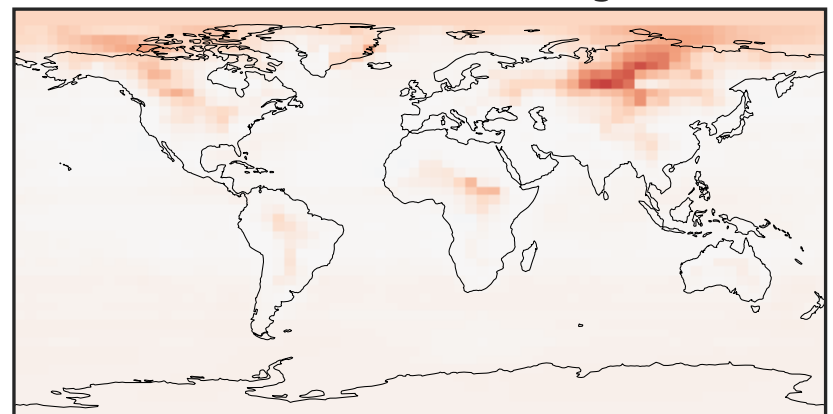
-2.5 0.0 2.5  
ppb  $1e-6$

Ratio  
Dev/Ref, Dynamic Range



0.6236 0.8118 1.0000 1.3018 1.6037  
unitless

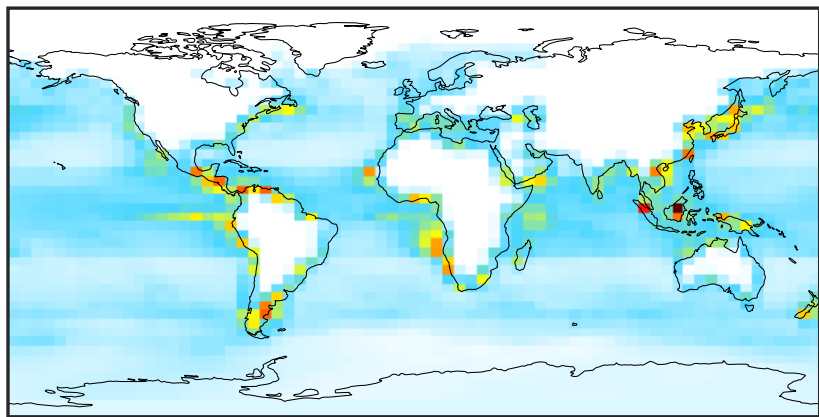
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

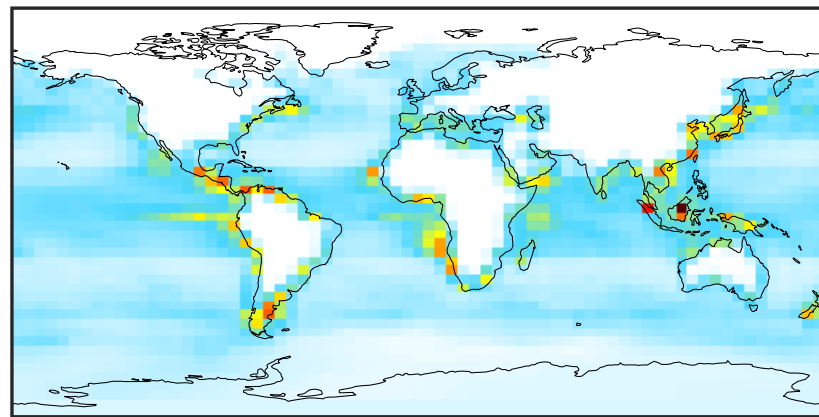
# SpeciesConcVV\_CH2IBr (Jul2019)

14.2.0-rc.2 (Ref)  
4.0x5.0



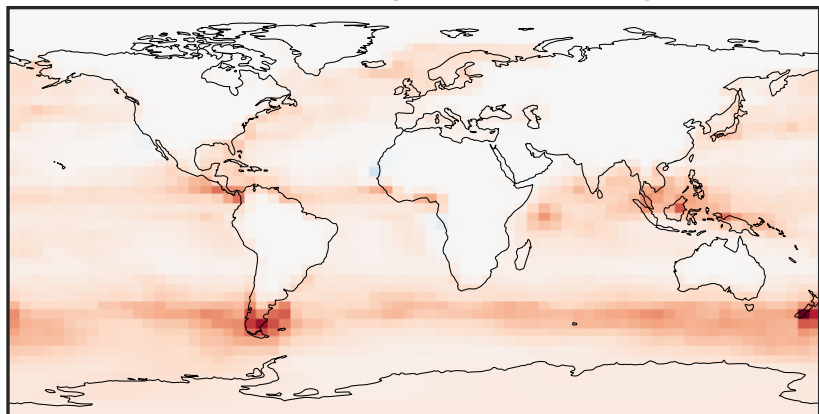
0.00000 0.00004 0.00008 0.00012  
ppb

14.3.0-rc.0 (Dev)  
4.0x5.0



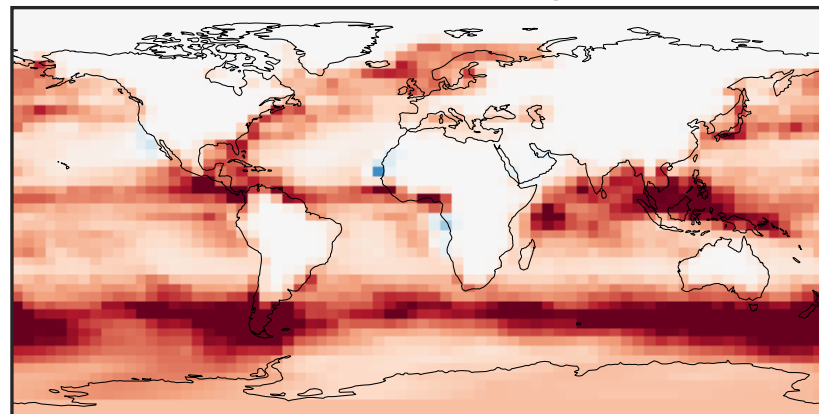
0.00000 0.00004 0.00008 0.00012  
ppb

Difference  
Dev - Ref, Dynamic Range



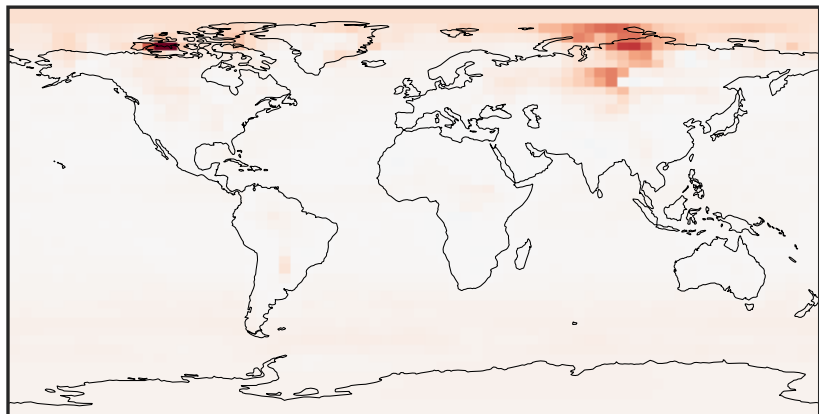
-1 0 1  
ppb  $1e-6$

Difference  
Dev - Ref, Restricted Range [5%,95%]



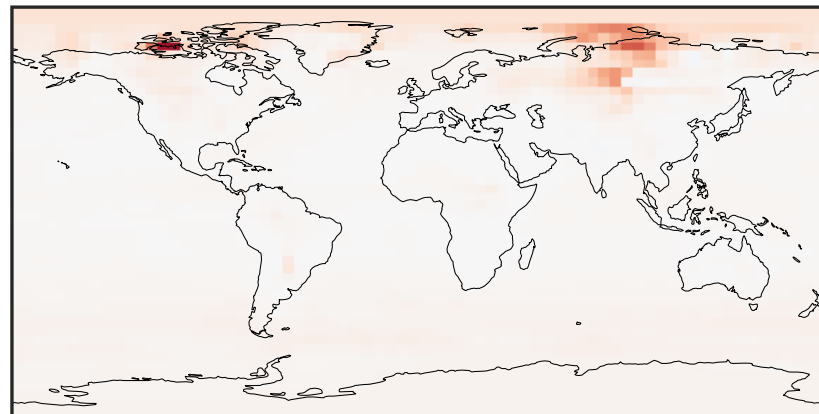
-3 0 3  
ppb  $1e-7$

Ratio  
Dev/Ref, Dynamic Range



0.553 0.776 1.000 1.405 1.810  
unitless

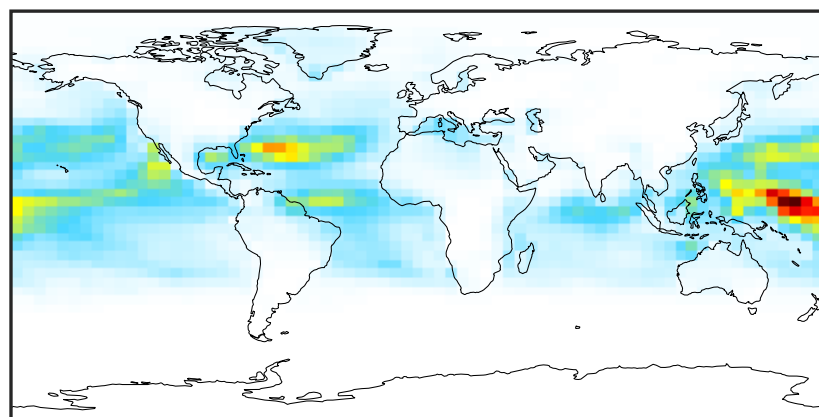
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

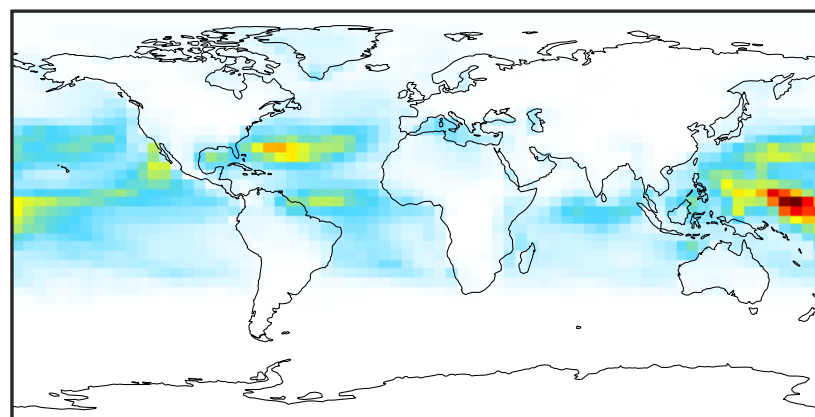
# SpeciesConcVV\_HI (Jul2019)

14.2.0-rc.2 (Ref)  
4.0x5.0



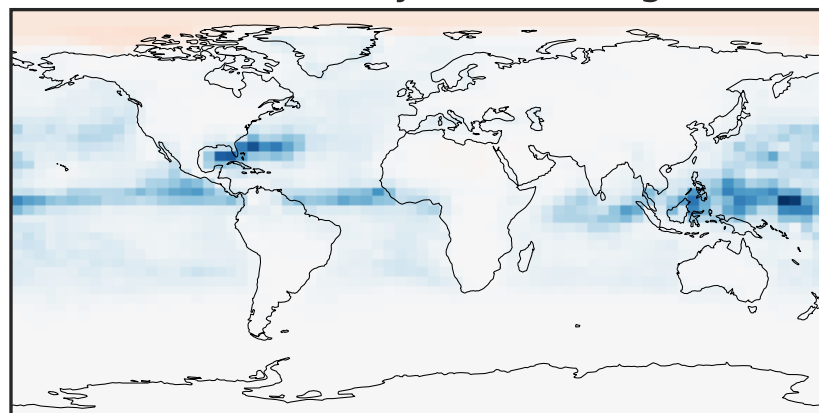
0.00005 0.00010 0.00015  
ppb

14.3.0-rc.0 (Dev)  
4.0x5.0



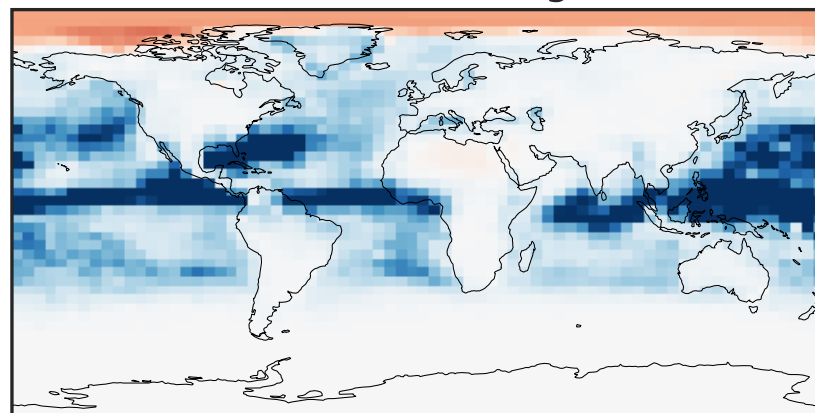
0.00005 0.00010 0.00015  
ppb

Difference  
Dev - Ref, Dynamic Range



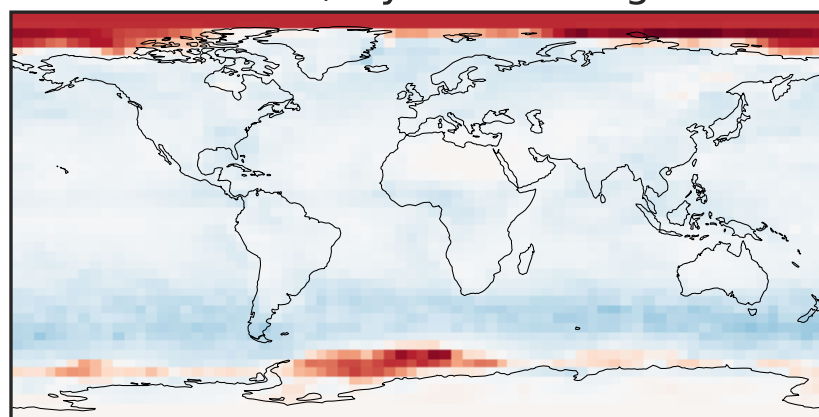
-3 0 3  
ppb  $1e-6$

Difference  
Dev - Ref, Restricted Range [5%,95%]



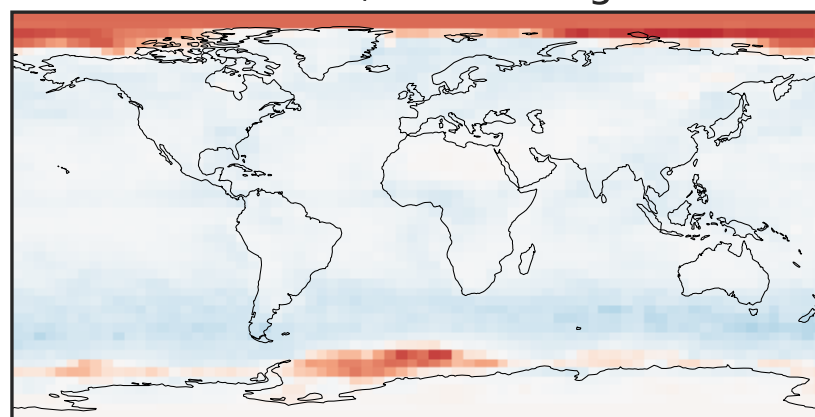
-8 0 8  
ppb  $1e-7$

Ratio  
Dev/Ref, Dynamic Range



0.592 0.796 1.000 1.345 1.690  
unitless

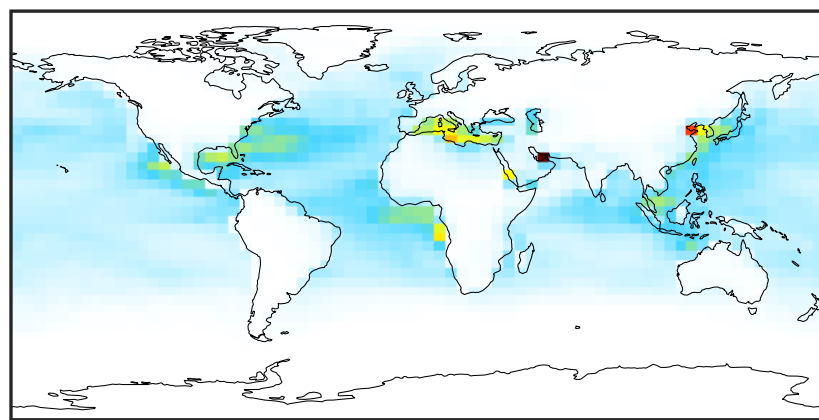
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

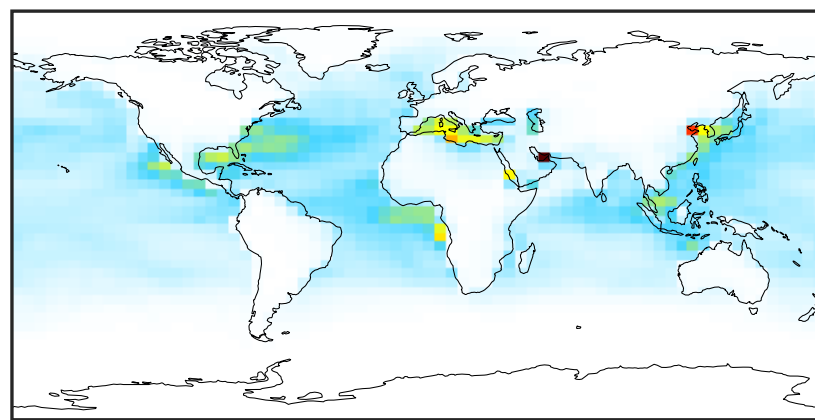
# SpeciesConcVV\_HOI (Jul2019)

14.2.0-rc.2 (Ref)  
4.0x5.0



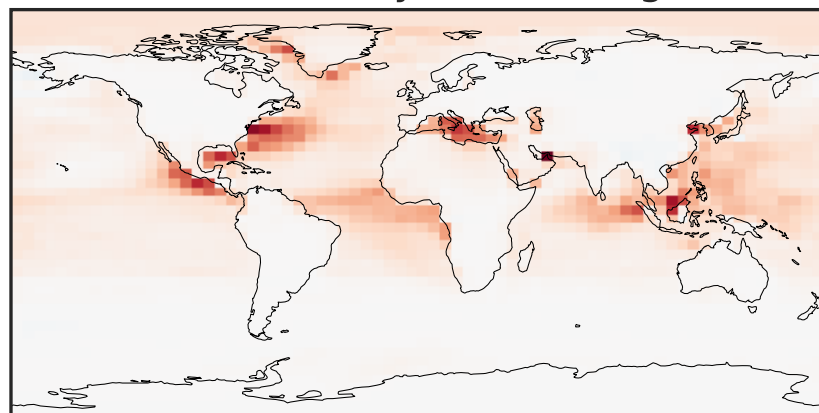
0.008 0.016 0.024  
ppb

14.3.0-rc.0 (Dev)  
4.0x5.0



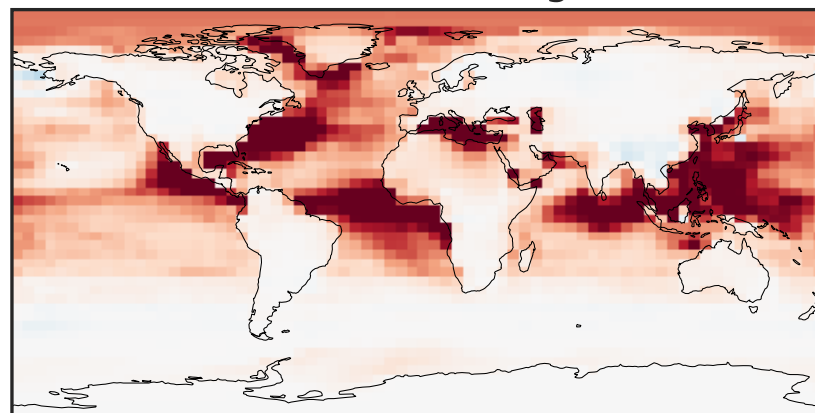
0.008 0.016 0.024  
ppb

Difference  
Dev - Ref, Dynamic Range



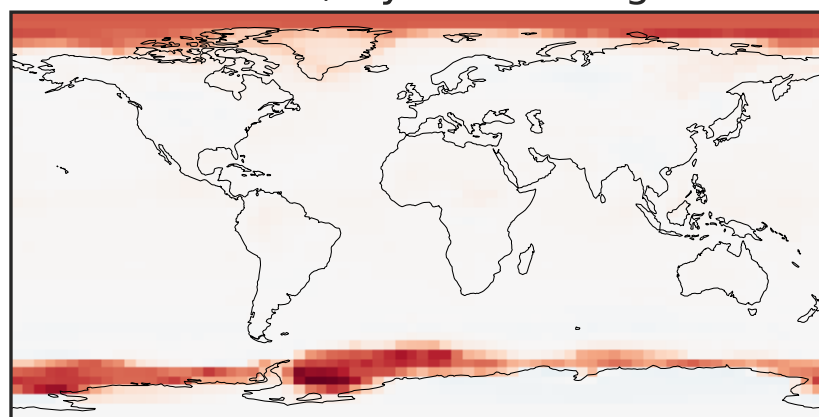
-0.0002 0.0000 0.0002  
ppb

Difference  
Dev - Ref, Restricted Range [5%,95%]



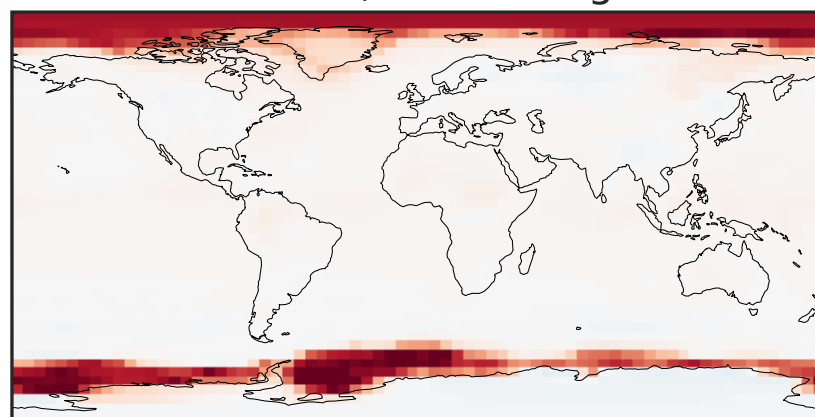
-5 0 5  
ppb  $1e-5$

Ratio  
Dev/Ref, Dynamic Range



0.385 0.693 1.000 1.797 2.594  
unitless

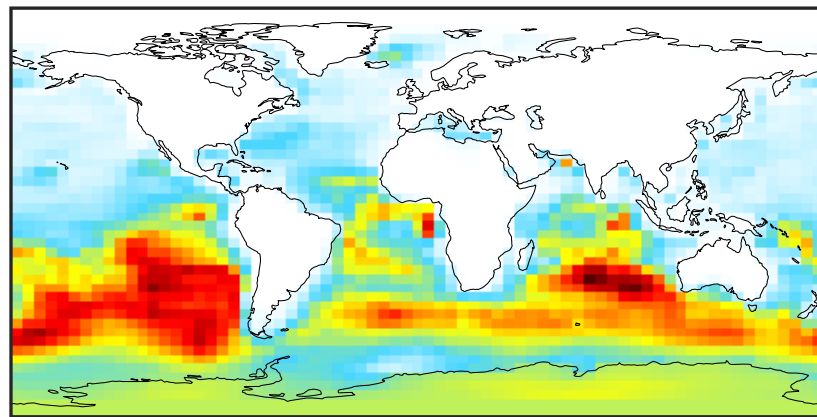
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

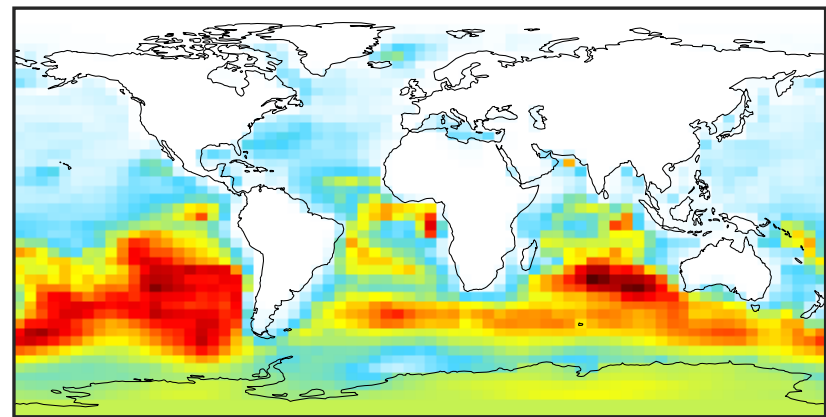
# SpeciesConcVV\_OIO (Jul2019)

14.2.0-rc.2 (Ref)  
4.0x5.0



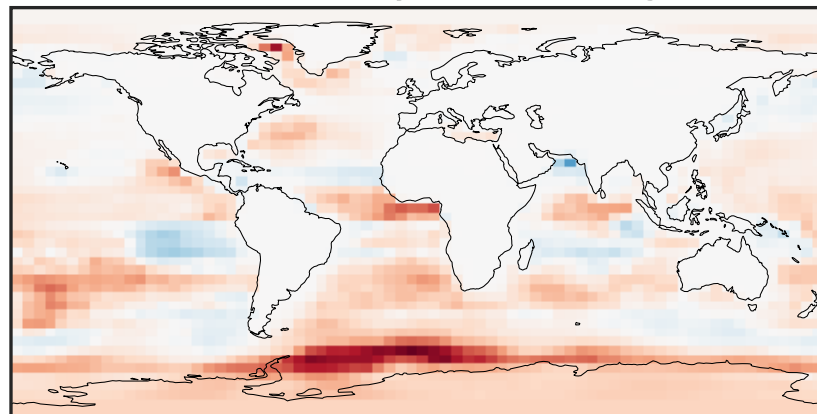
0.00006 0.00012 0.00018  
ppb

14.3.0-rc.0 (Dev)  
4.0x5.0



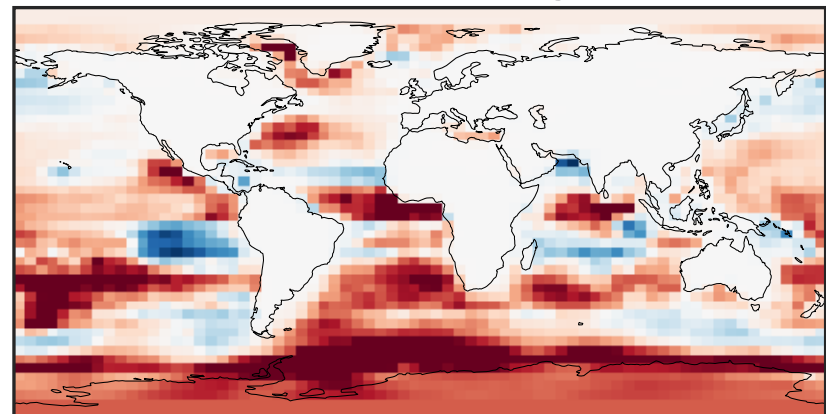
0.00006 0.00012 0.00018  
ppb

Difference  
Dev - Ref, Dynamic Range



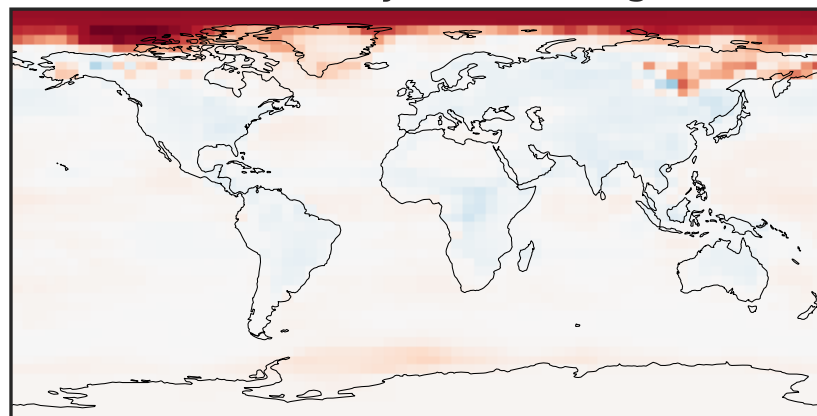
-5 0 5  
ppb  $1e-6$

Difference  
Dev - Ref, Restricted Range [5%,95%]



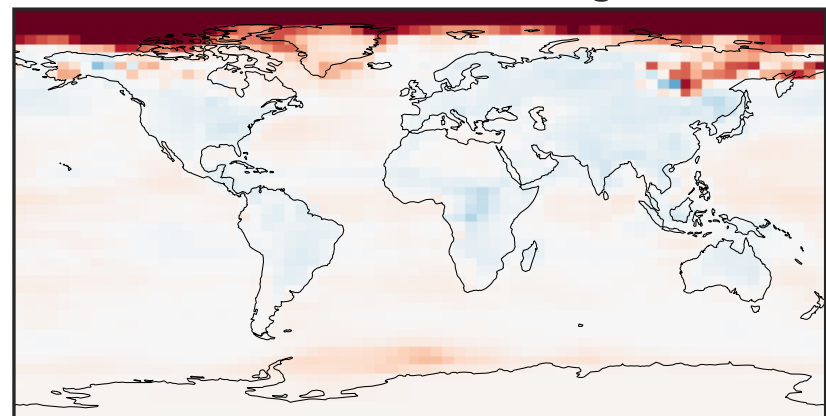
-2 0 2  
ppb  $1e-6$

Ratio  
Dev/Ref, Dynamic Range



0.367 0.683 1.000 1.863 2.725  
unitless

Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless