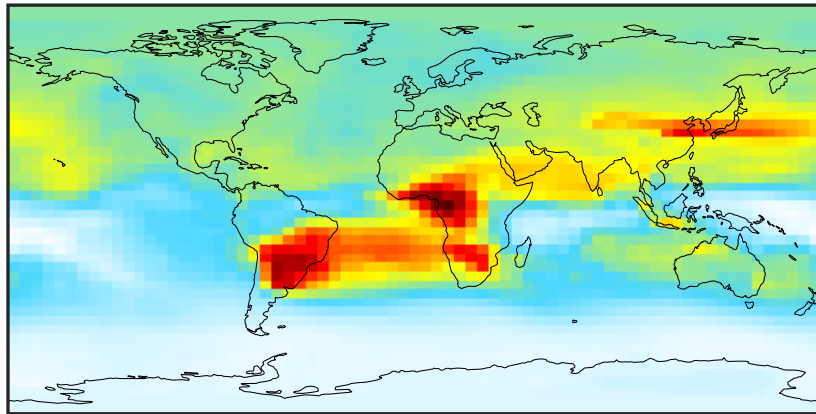


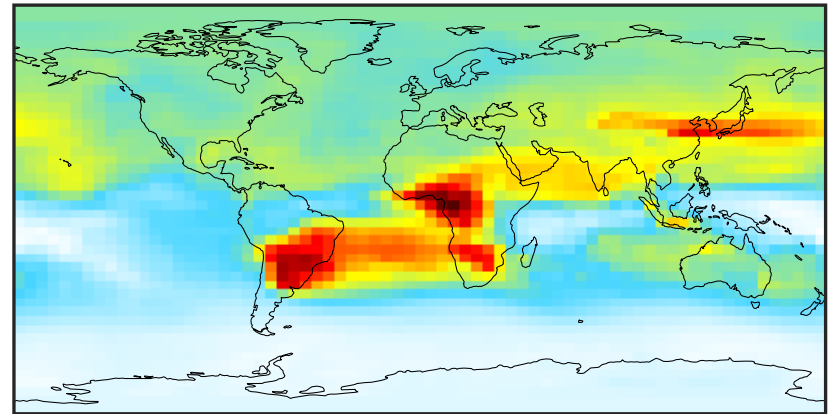
# SpeciesConcVV\_NOy (Jan2019)

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



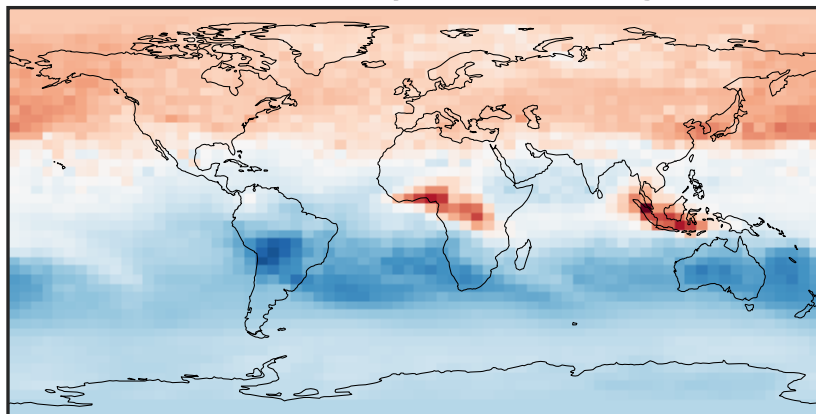
0.0337 0.2041 0.3745 0.5448 0.7152  
ppb

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



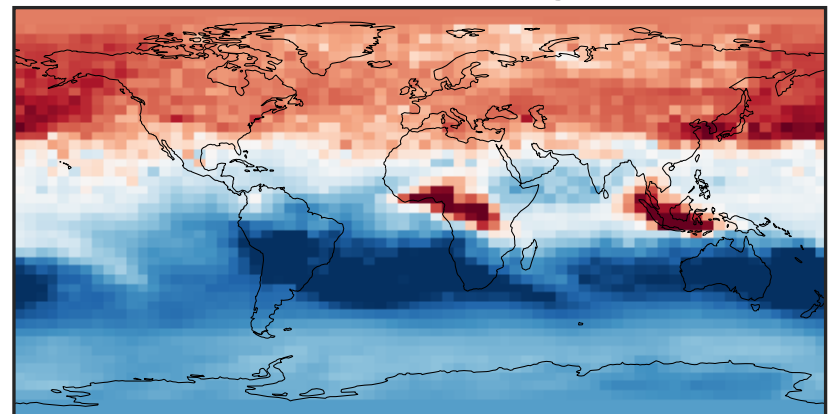
0.0337 0.2041 0.3745 0.5448 0.7152  
ppb

Difference  
Dev - Ref, Dynamic Range



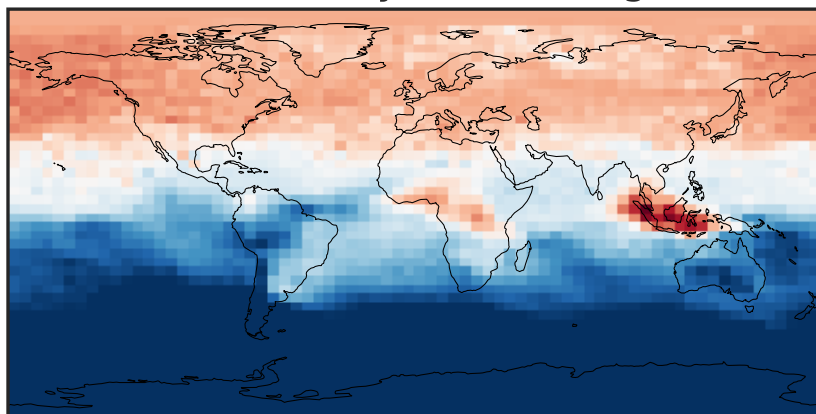
-0.005 0.000 0.005  
ppb

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



-0.0025 0.0000 0.0025  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.97823 0.98911 1.00000 1.01113 1.02225  
unitless

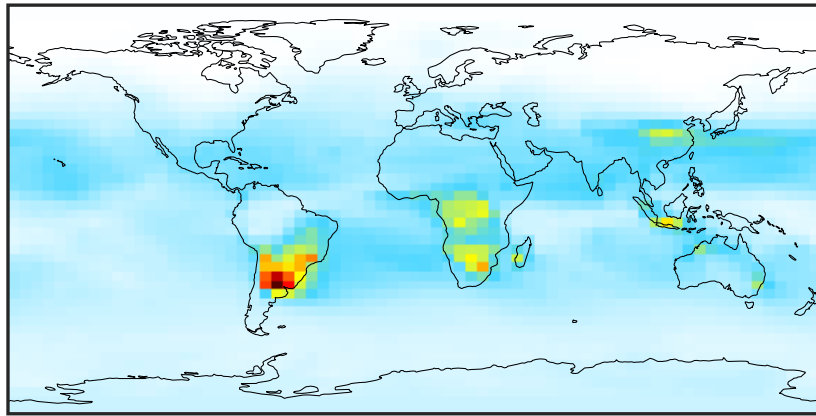
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

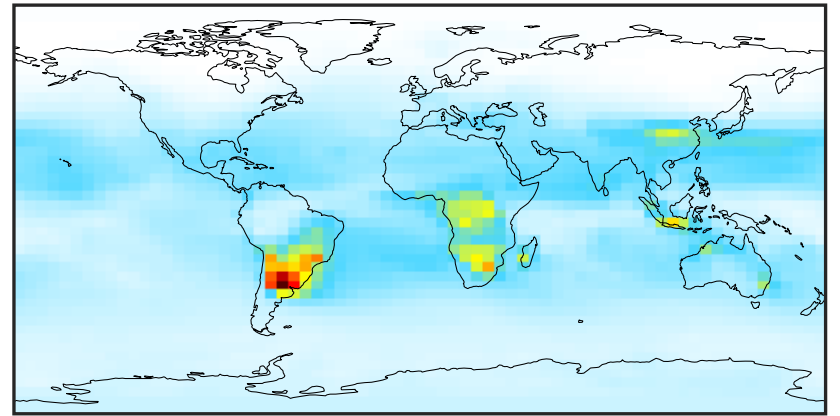
# SpeciesConcVV\_NOx (Jan2019)

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



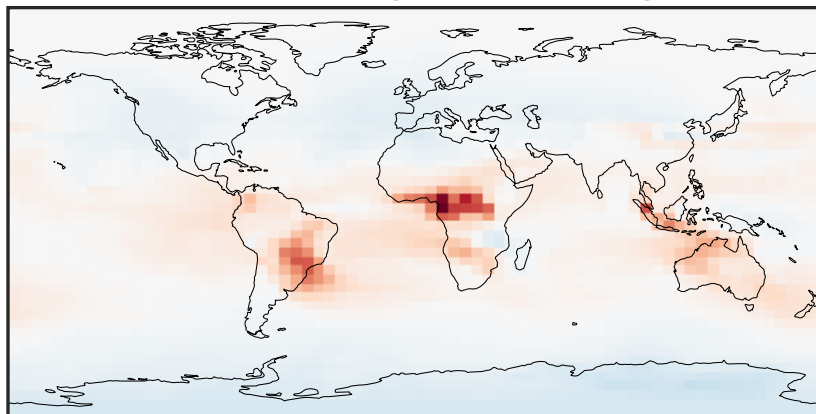
0.0009 0.0530 0.1051 0.1571 0.2092  
ppb

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



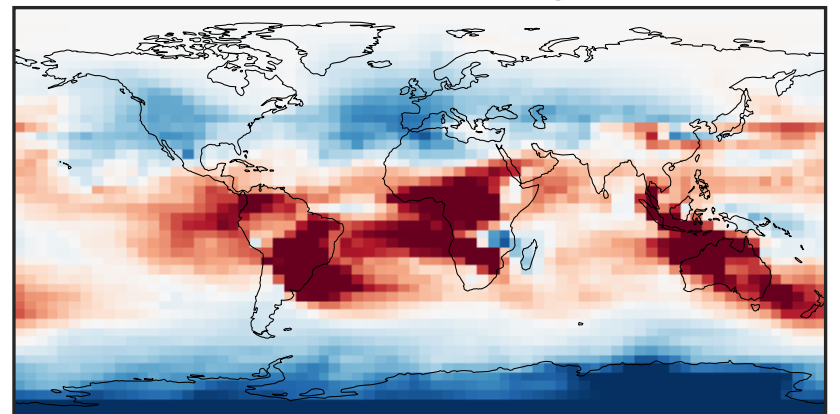
0.0009 0.0530 0.1051 0.1571 0.2092  
ppb

Difference  
Dev - Ref, Dynamic Range



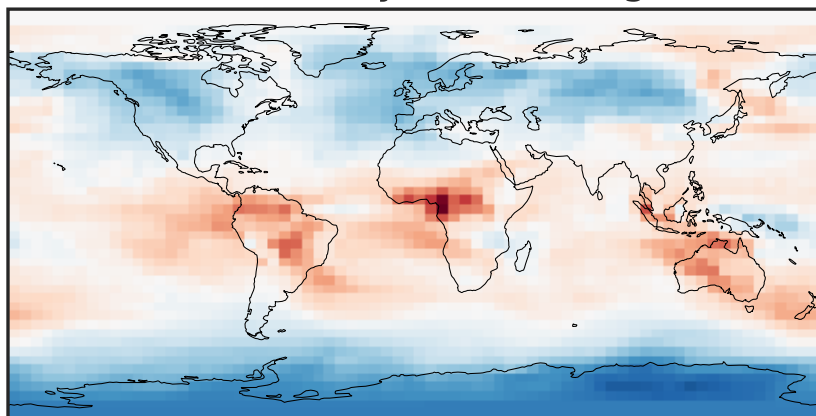
-0.002 0.000 0.002  
ppb

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



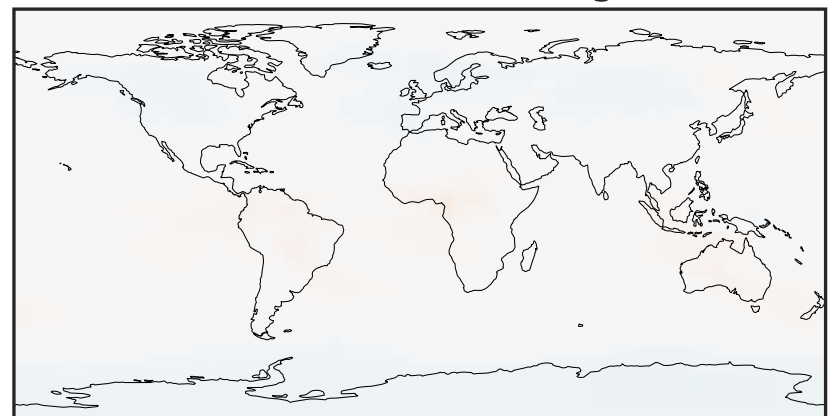
-0.0003 0.0000 0.0003  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.9499 0.9749 1.0000 1.0264 1.0528  
unitless

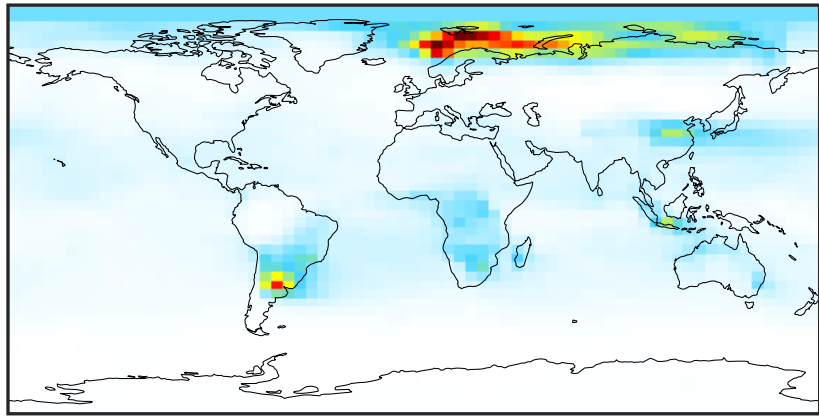
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

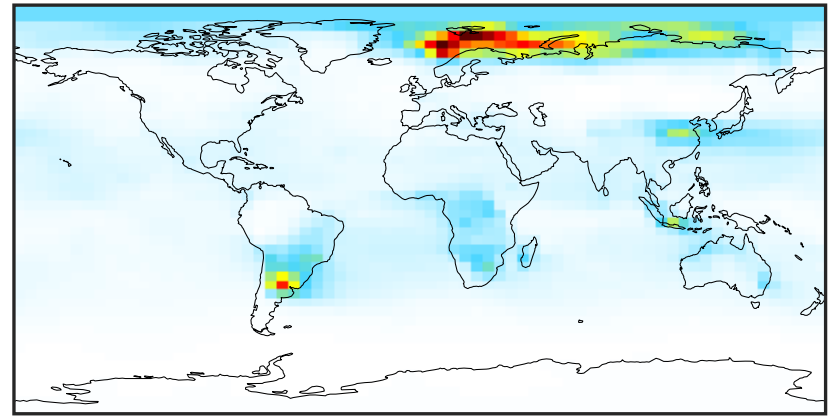
# SpeciesConcVV\_HNO2 (Jan2019)

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



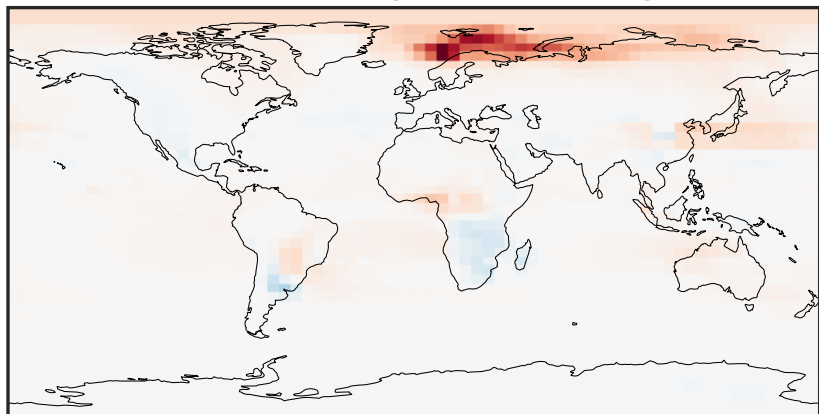
0.0008 0.0016 0.0024  
ppb

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



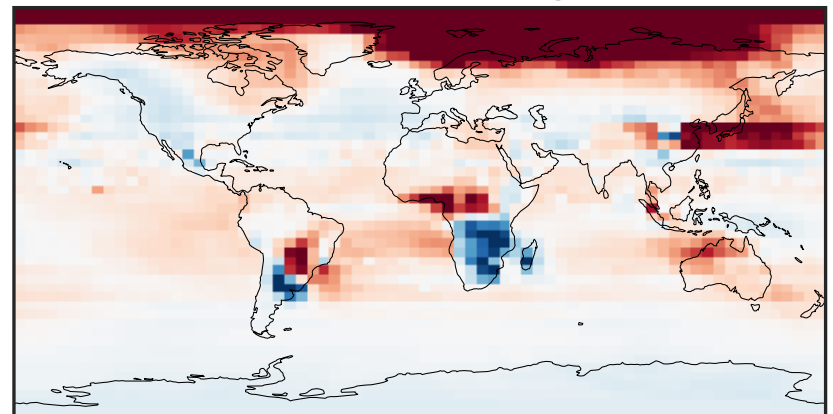
0.0008 0.0016 0.0024  
ppb

Difference  
Dev - Ref, Dynamic Range



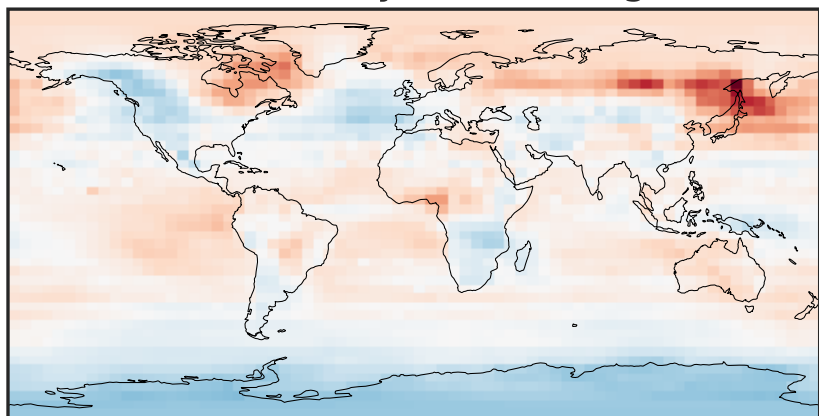
-4 0 4  
ppb  $1e-5$

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



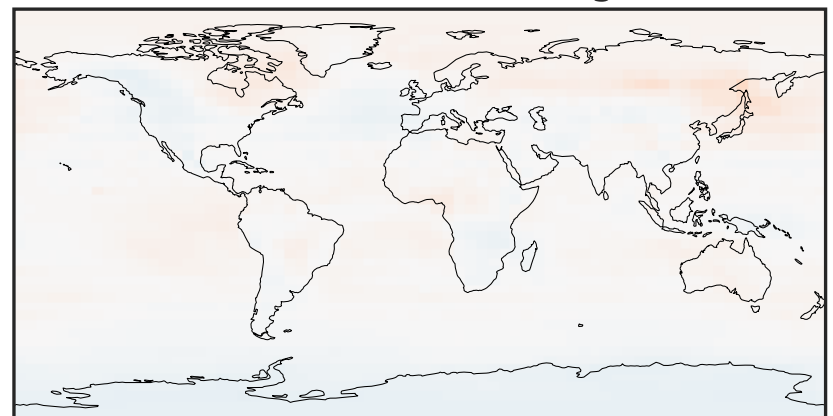
-6 0 6  
ppb  $1e-6$

Ratio  
Dev/Ref, Dynamic Range



0.8713 0.9356 1.0000 1.0739 1.1478  
unitless

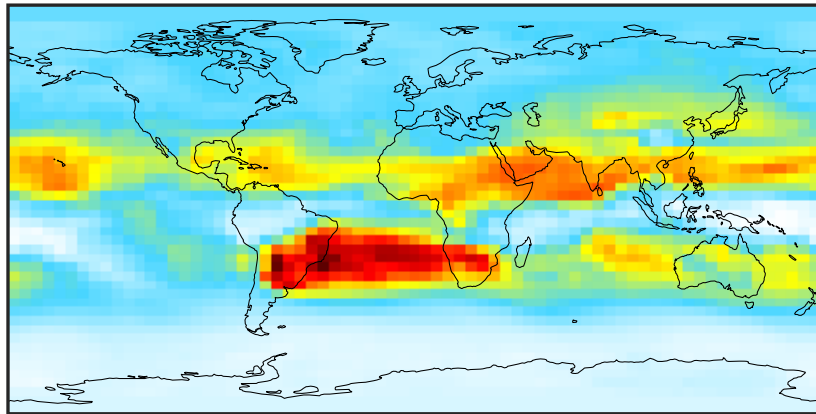
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

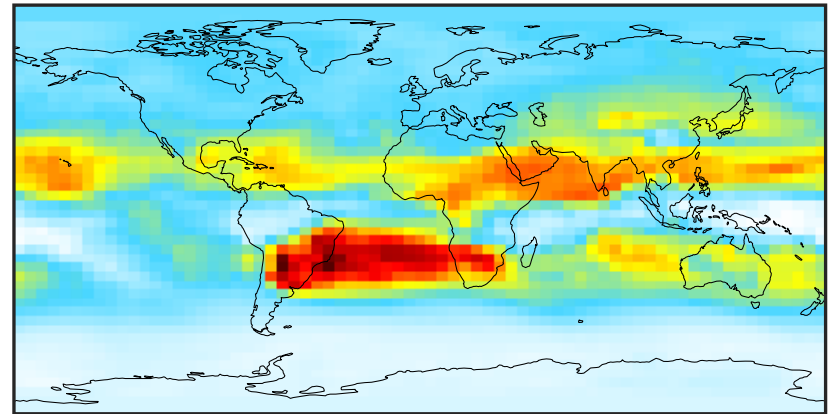
# SpeciesConcVV\_HNO3 (Jan2019)

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



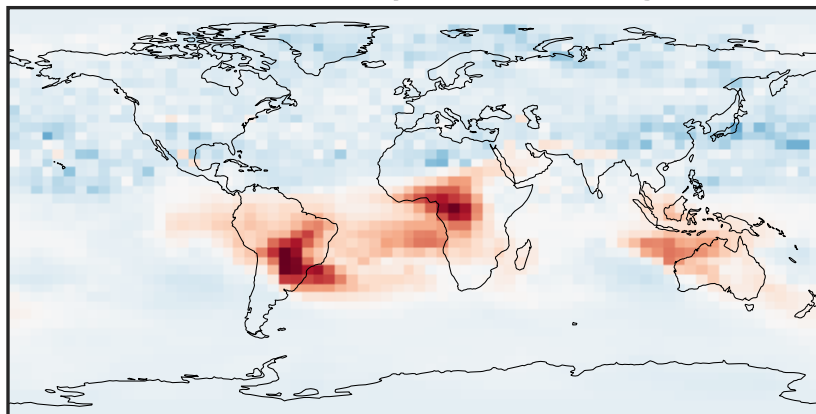
0.0068 0.0762 0.1456 0.2150 0.2844  
ppb

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



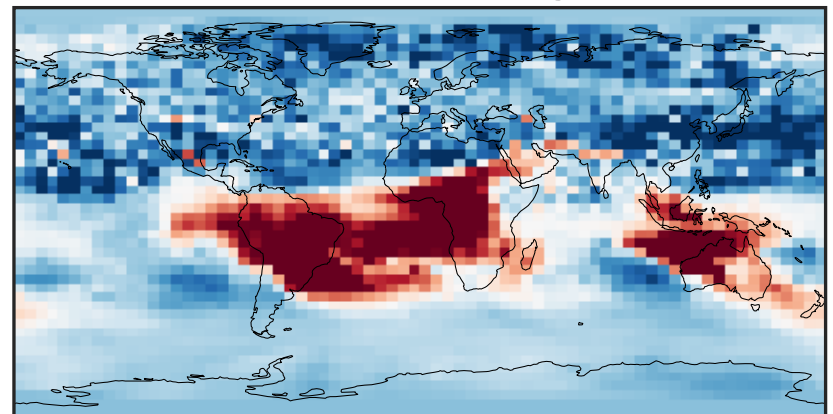
0.0068 0.0762 0.1456 0.2150 0.2844  
ppb

Difference  
Dev - Ref, Dynamic Range



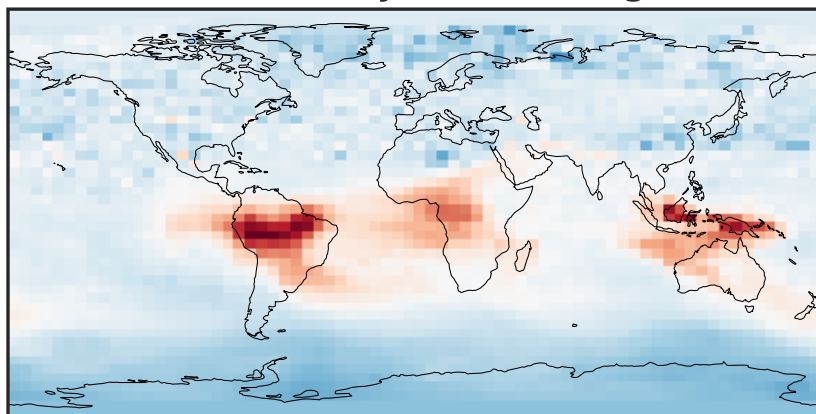
-0.003 0.000 0.003  
ppb

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



-0.0008 0.0000 0.0008  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.9447 0.9724 1.0000 1.0292 1.0585  
unitless

Ratio  
Dev/Ref, Fixed Range

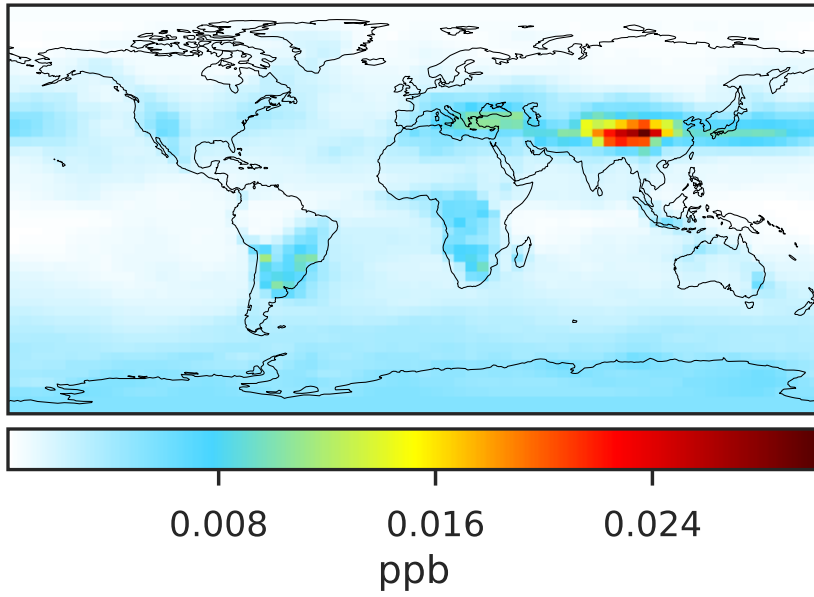


0.50 0.75 1.00 1.50 2.00  
unitless

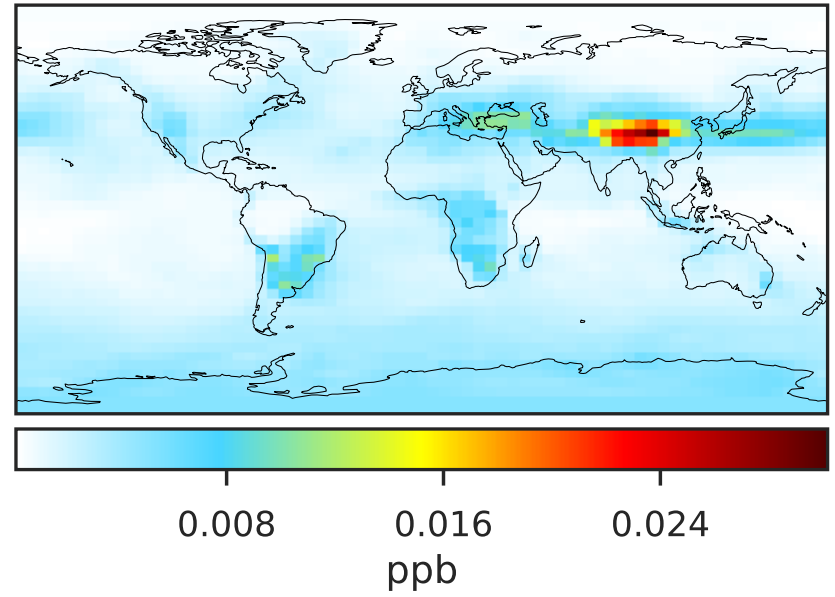


# SpeciesConcVV\_HNO4 (Jan2019)

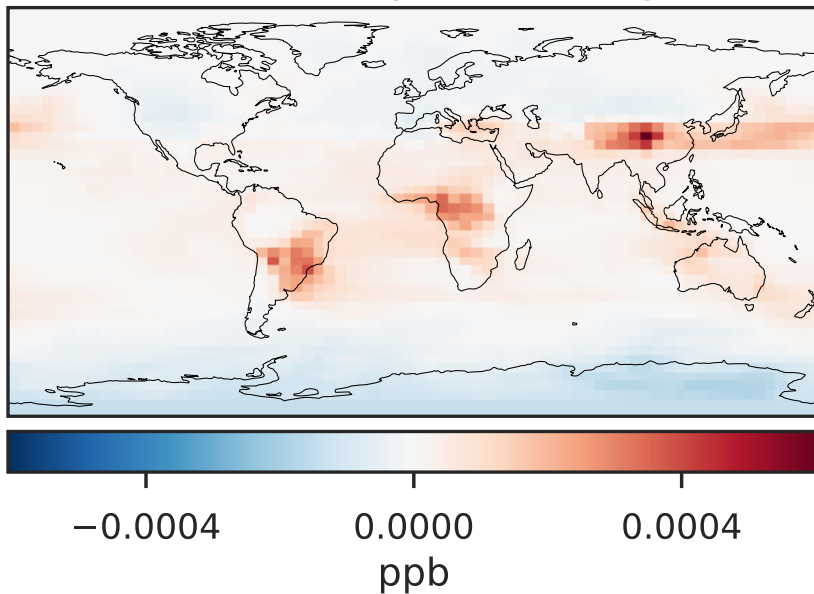
14.2.0-rc.2 (Ref)  
4.0x5.0



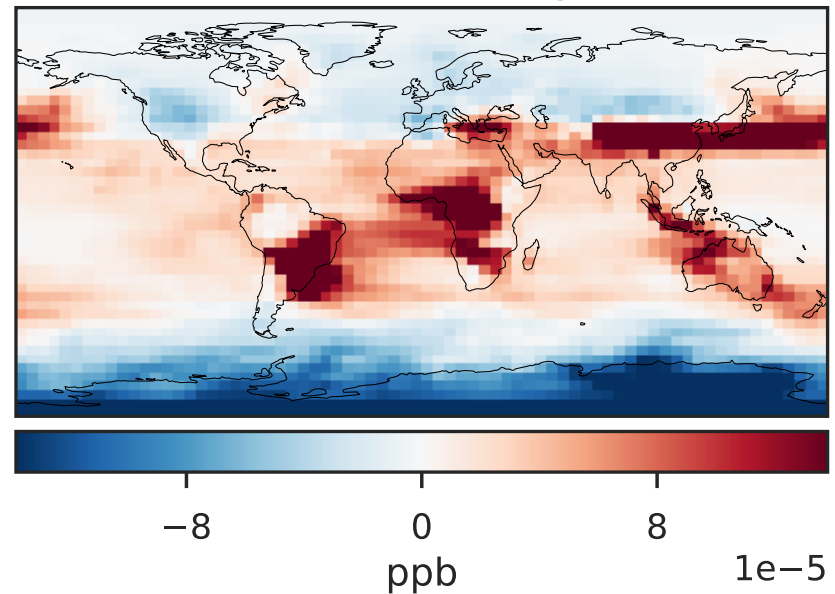
14.3.0-rc.0 (Dev)  
4.0x5.0



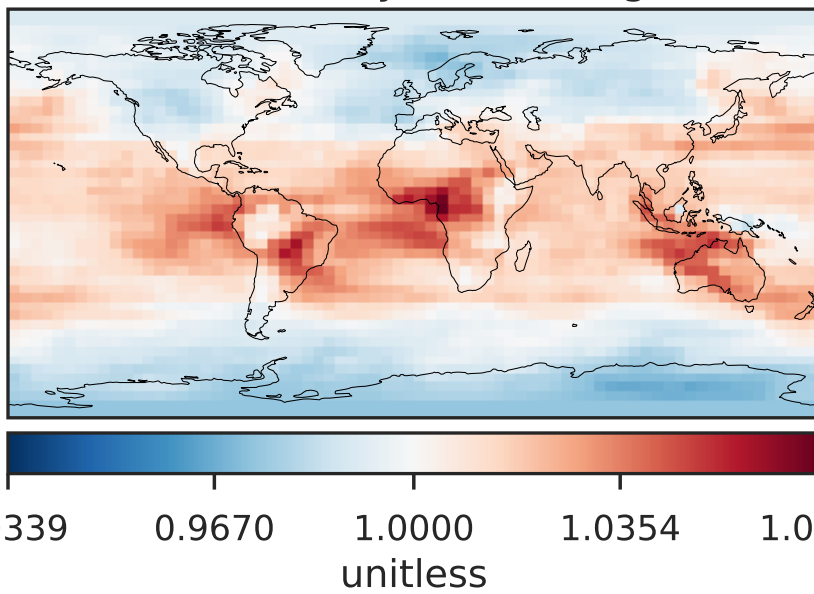
Difference  
Dev - Ref, Dynamic Range



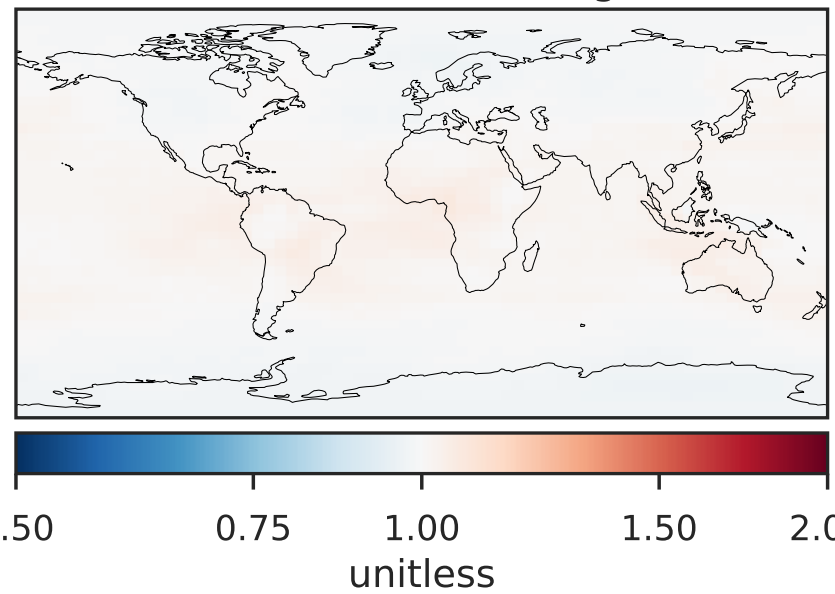
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

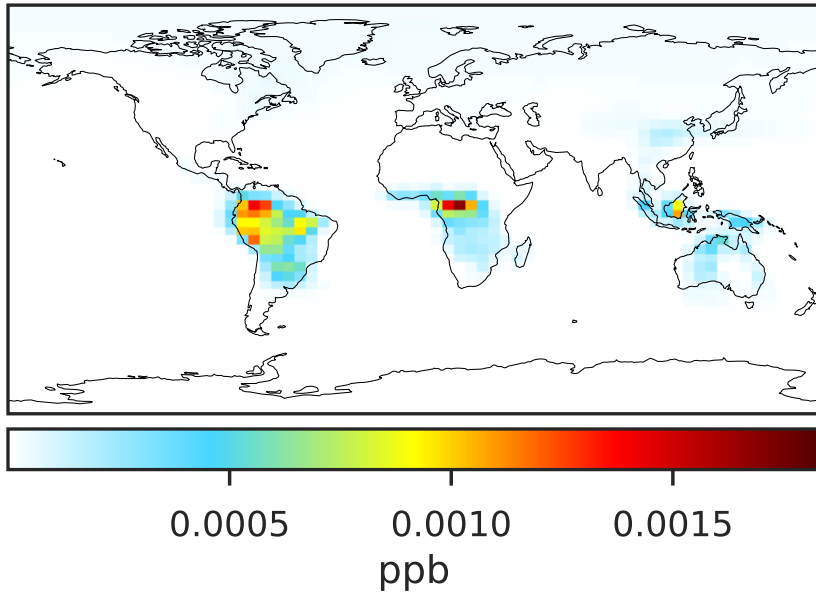


Ratio  
Dev/Ref, Fixed Range

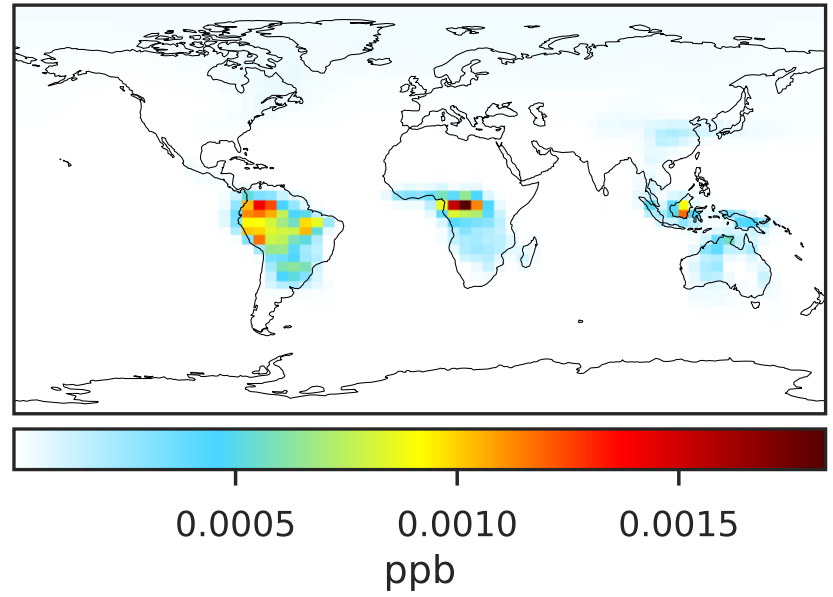


# SpeciesConcVV\_MPAN (Jan2019)

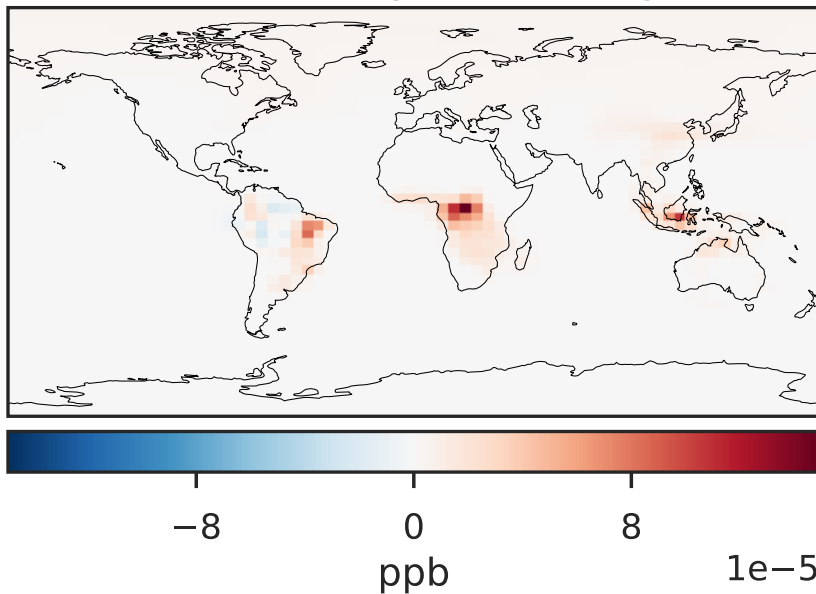
14.2.0-rc.2 (Ref)  
4.0x5.0



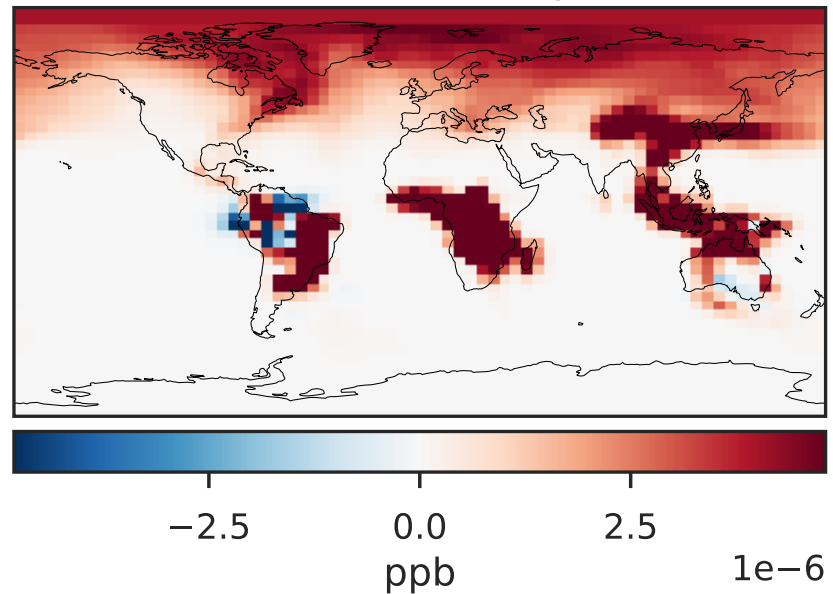
14.3.0-rc.0 (Dev)  
4.0x5.0



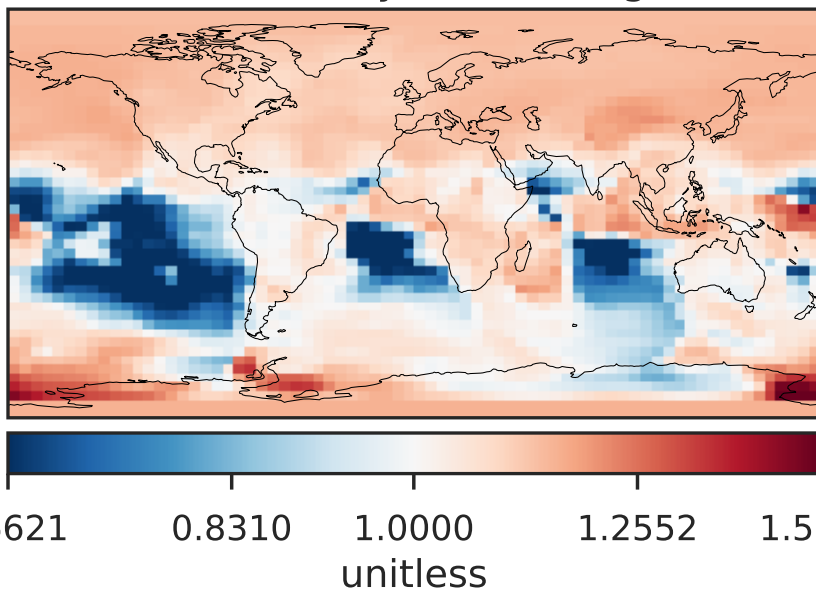
Difference  
Dev - Ref, Dynamic Range



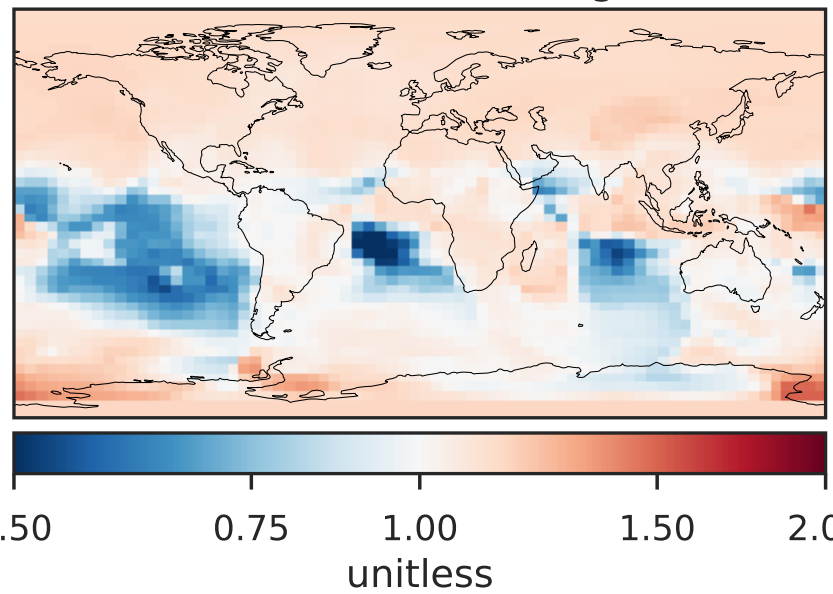
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

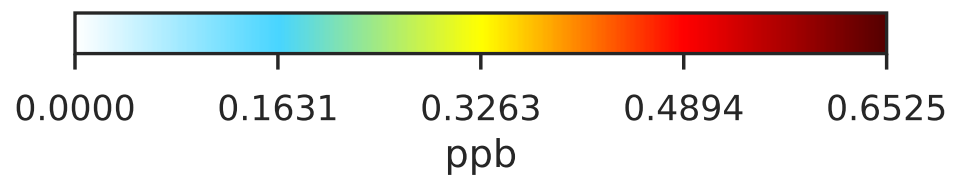
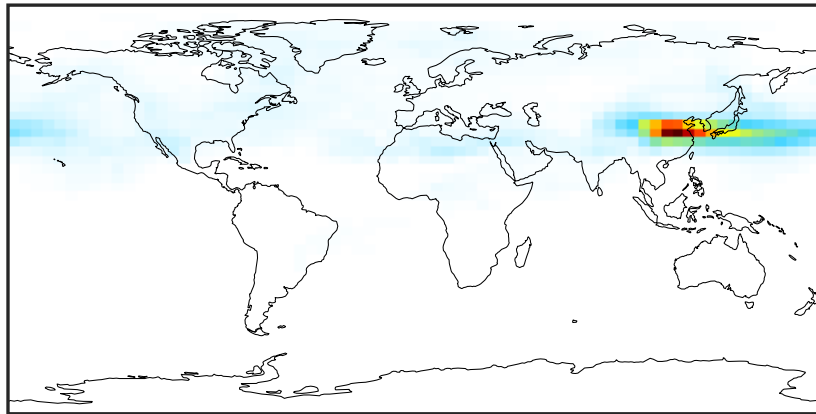


Ratio  
Dev/Ref, Fixed Range

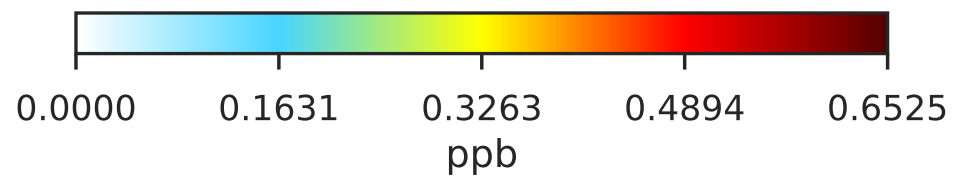
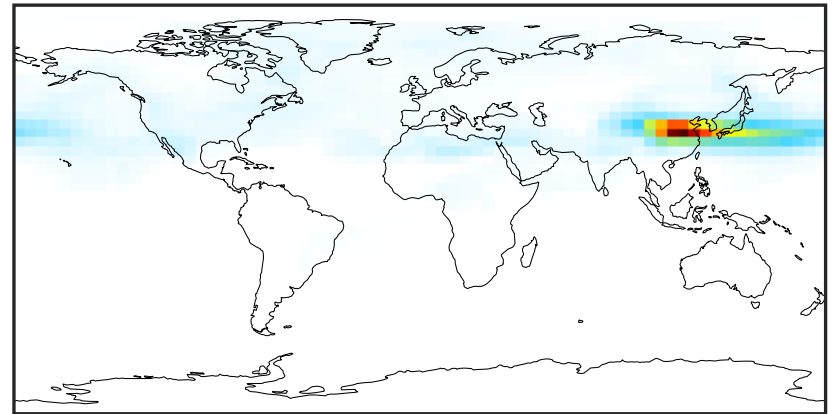


# SpeciesConcVV\_NIT (Jan2019)

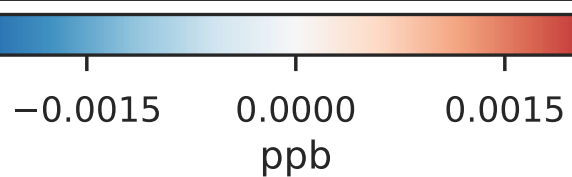
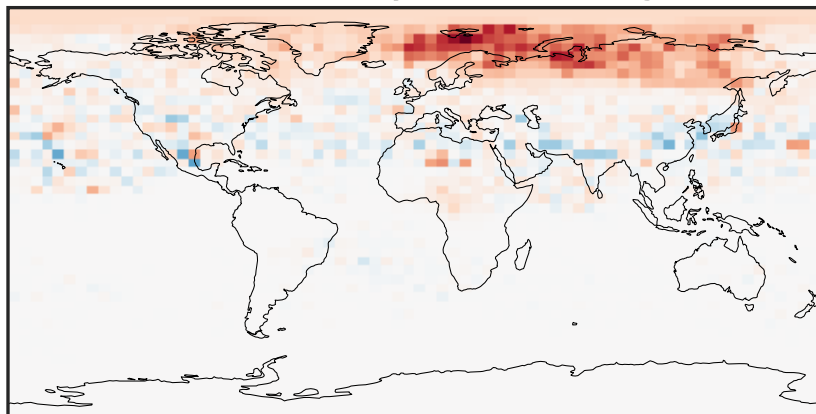
14.2.0-rc.2 (Ref)  
4.0x5.0



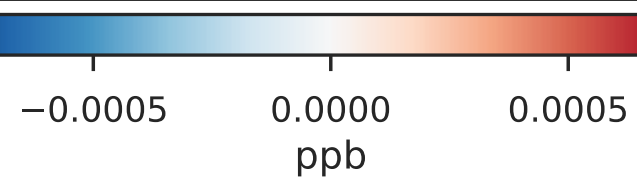
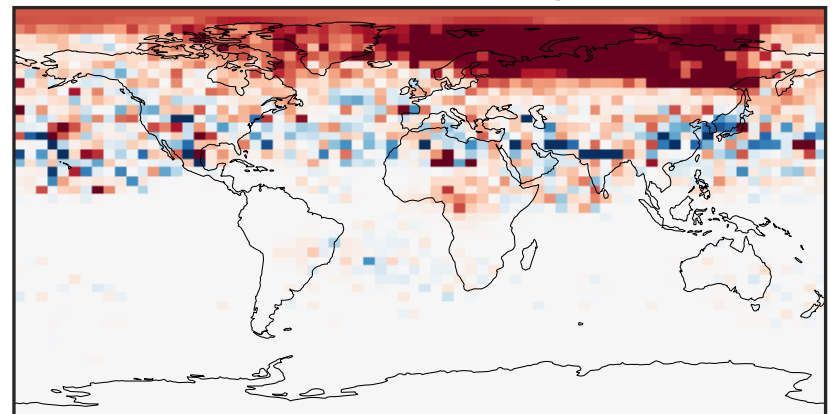
14.3.0-rc.0 (Dev)  
4.0x5.0



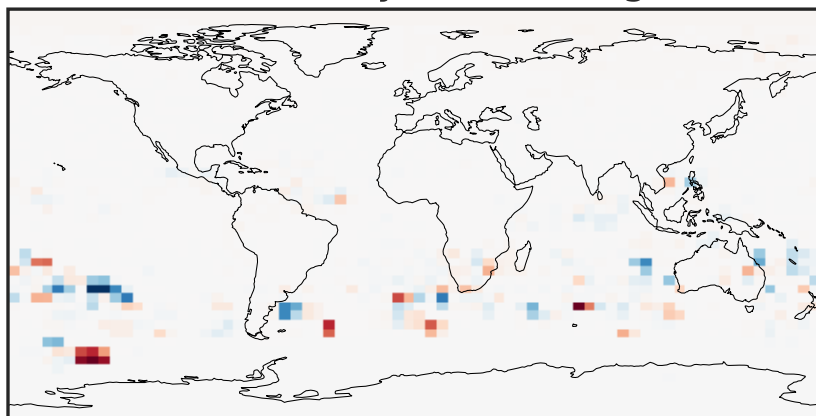
Difference  
Dev - Ref, Dynamic Range



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

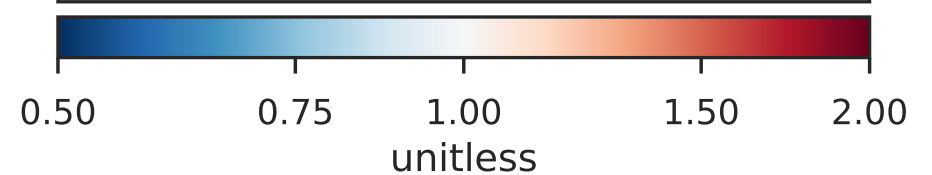
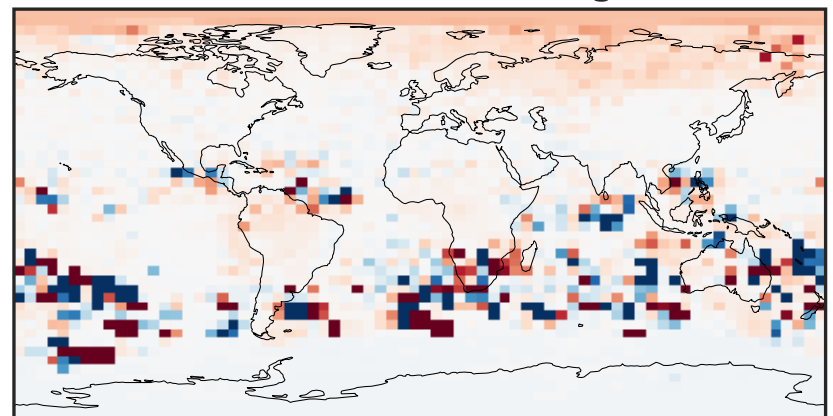


Ratio  
Dev/Ref, Dynamic Range



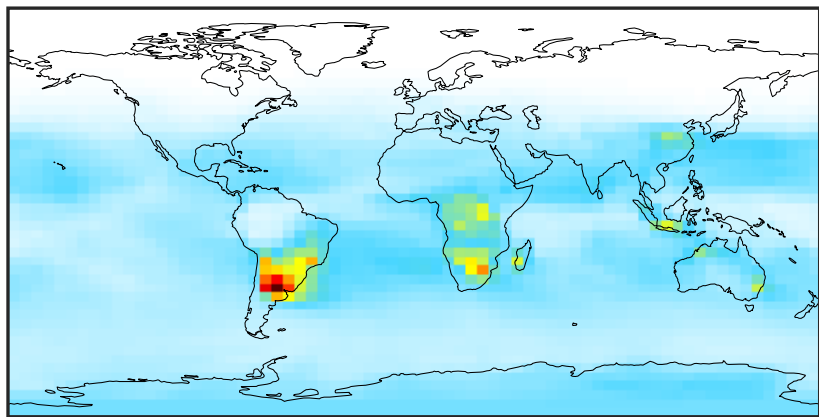
unitless

Ratio  
Dev/Ref, Fixed Range



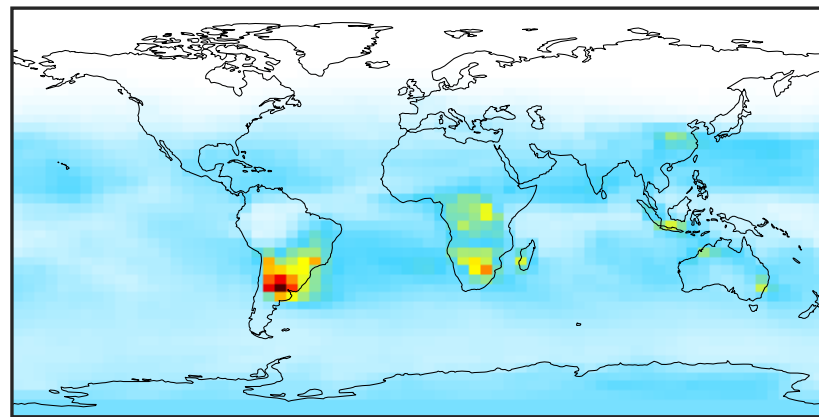
# SpeciesConcVV\_NO (Jan2019)

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



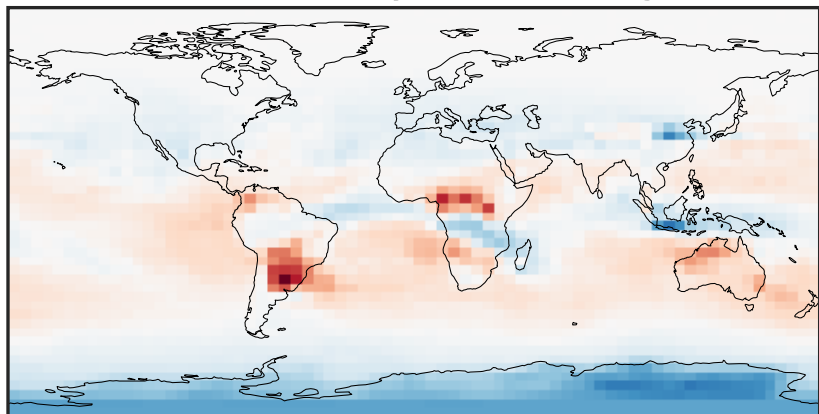
0.000 0.015 0.030 0.045  
ppb

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



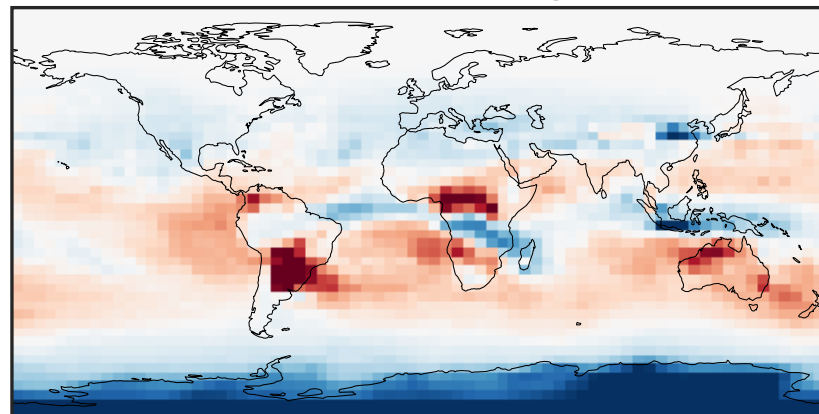
0.000 0.015 0.030 0.045  
ppb

Difference  
Dev - Ref, Dynamic Range



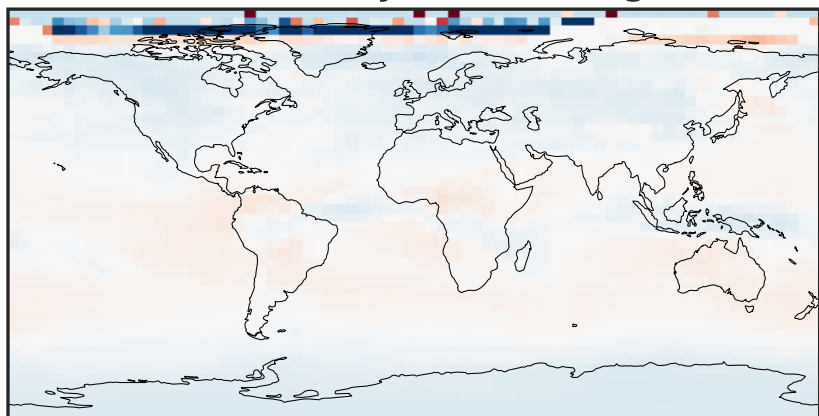
-0.0004 0.0000 0.0004  
ppb

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



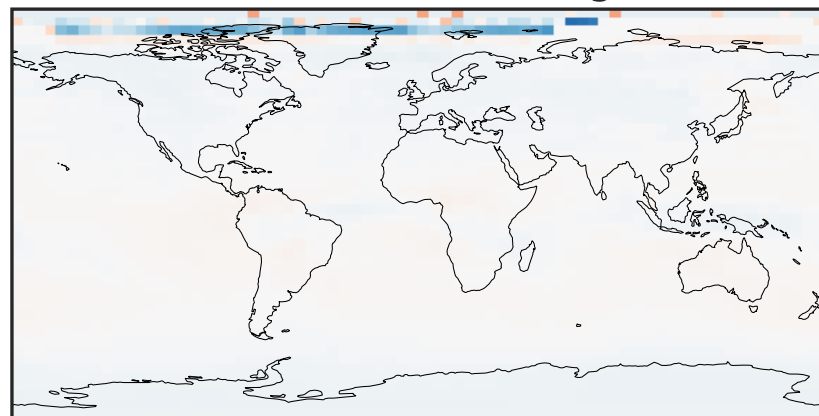
-0.0002 0.0000 0.0002  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.7561 0.8781 1.0000 1.1613 1.3225  
unitless

Ratio  
Dev/Ref, Fixed Range

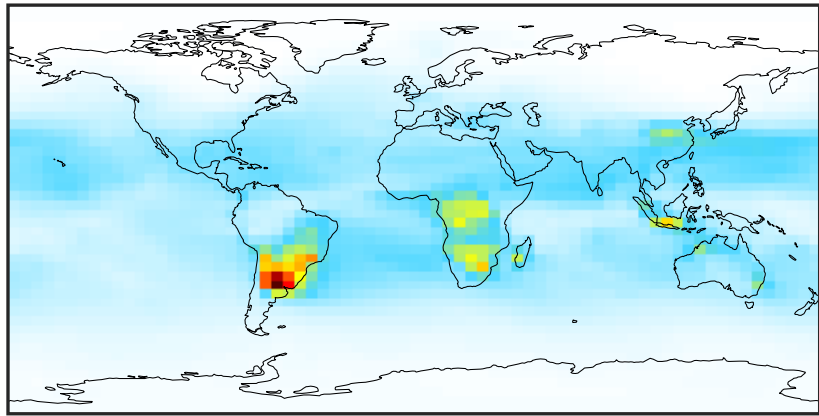


0.50 0.75 1.00 1.50 2.00  
unitless



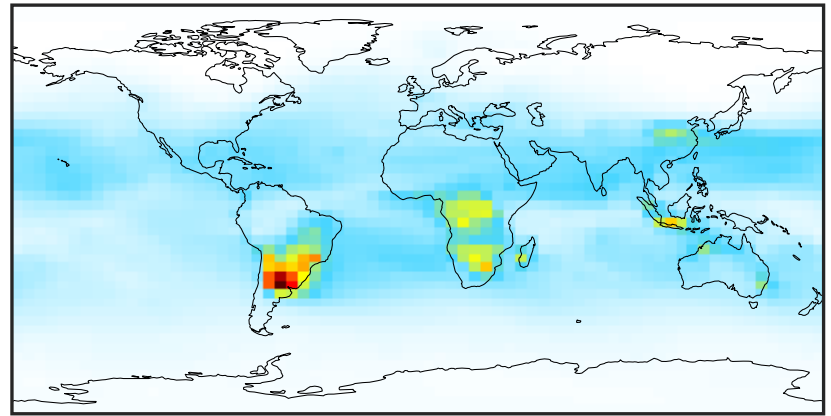
# SpeciesConcVV\_NO2 (Jan2019)

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



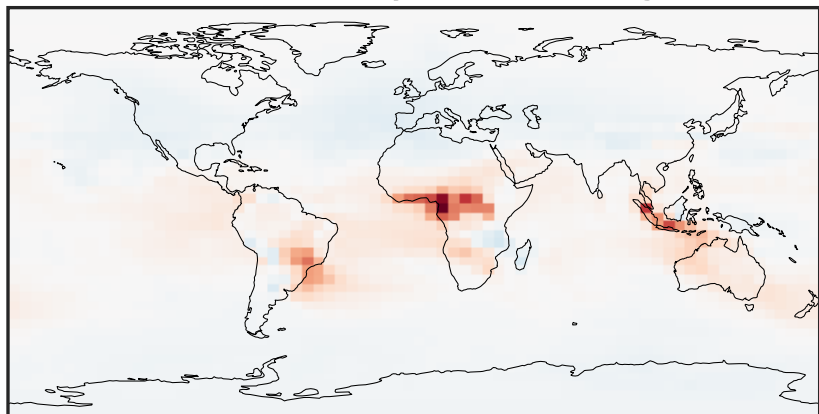
0.0002 0.0376 0.0751 0.1125 0.1500  
ppb

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



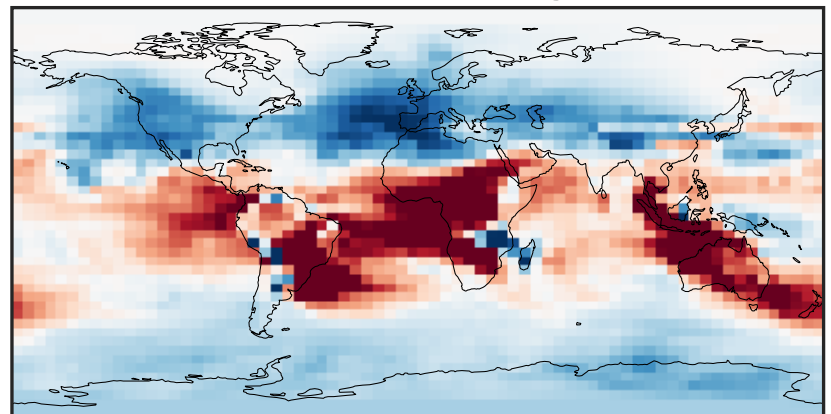
0.0002 0.0376 0.0751 0.1125 0.1500  
ppb

Difference  
Dev - Ref, Dynamic Range



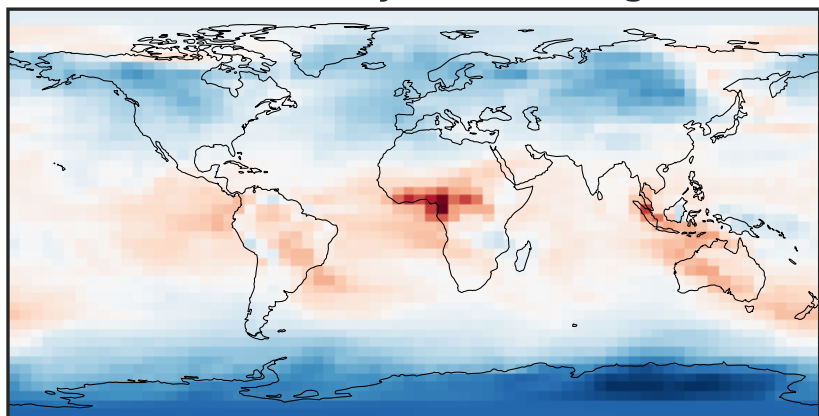
-0.0015 0.0000 0.0015  
ppb

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



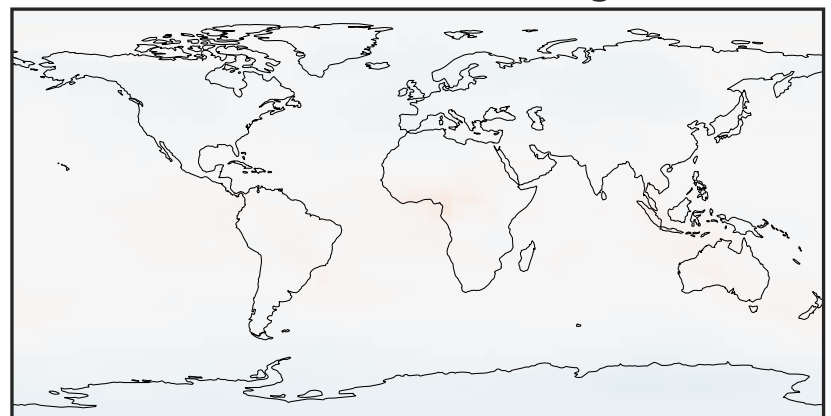
-0.00015 0.00000 0.00015  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.9411 0.9705 1.0000 1.0313 1.0626  
unitless

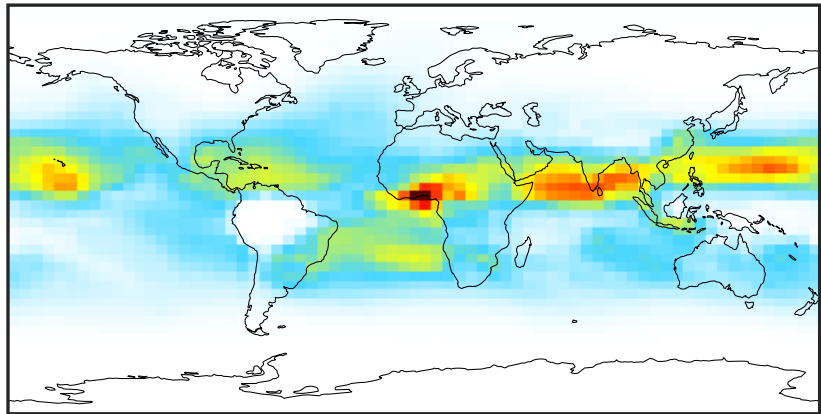
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

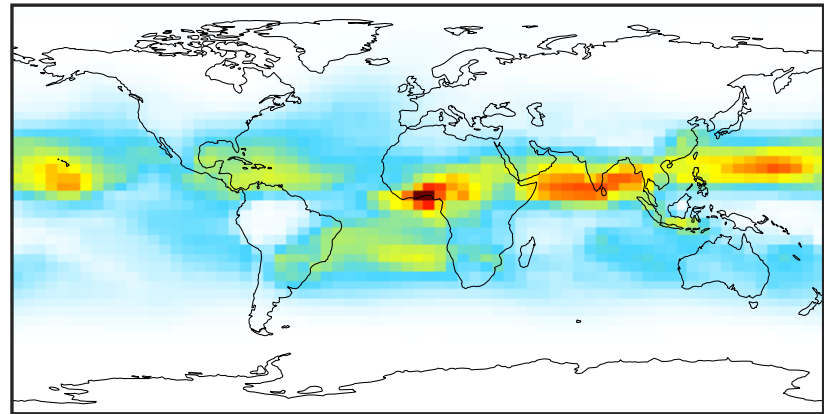
# SpeciesConcVV\_NO3 (Jan2019)

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



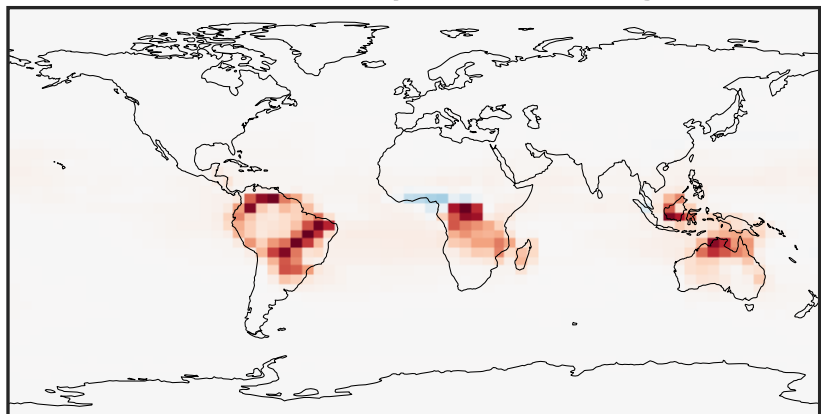
0.0015 0.0030 0.0045  
ppb

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



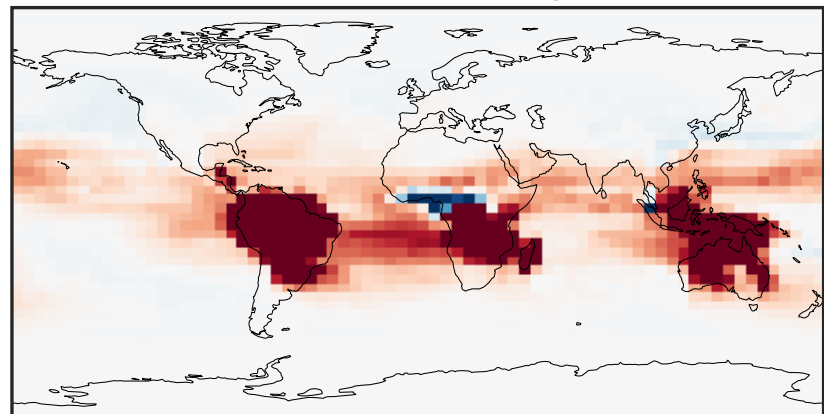
0.0015 0.0030 0.0045  
ppb

Difference  
Dev - Ref, Dynamic Range



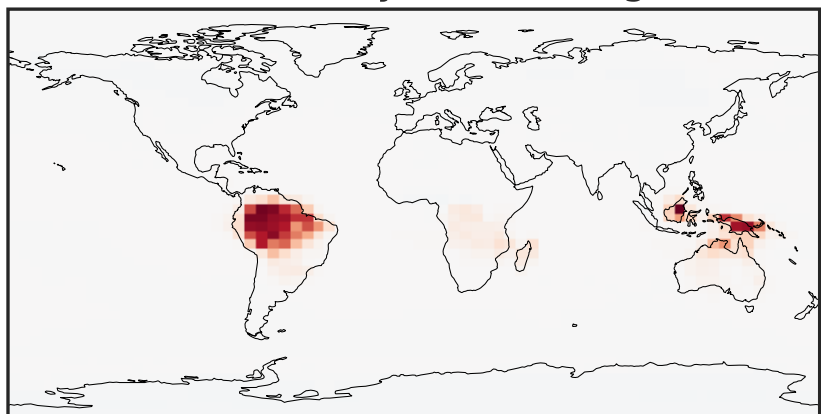
-0.00025 0.00000 0.00025  
ppb

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



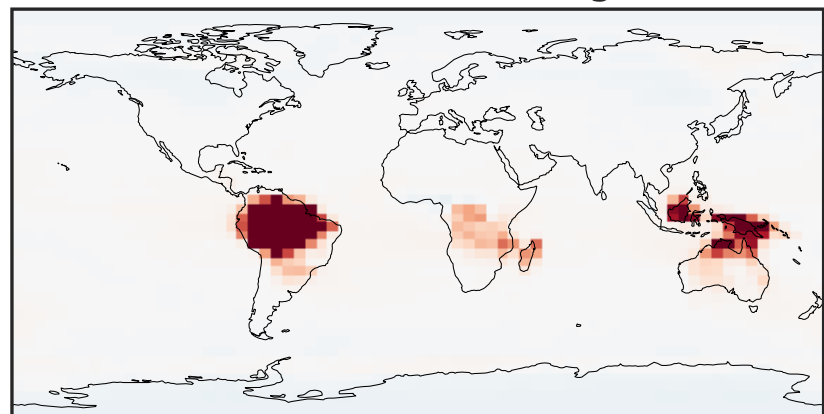
-2.5 0.0 2.5  
ppb  $1e-5$

Ratio  
Dev/Ref, Dynamic Range



1e-01 1 10  
unitless

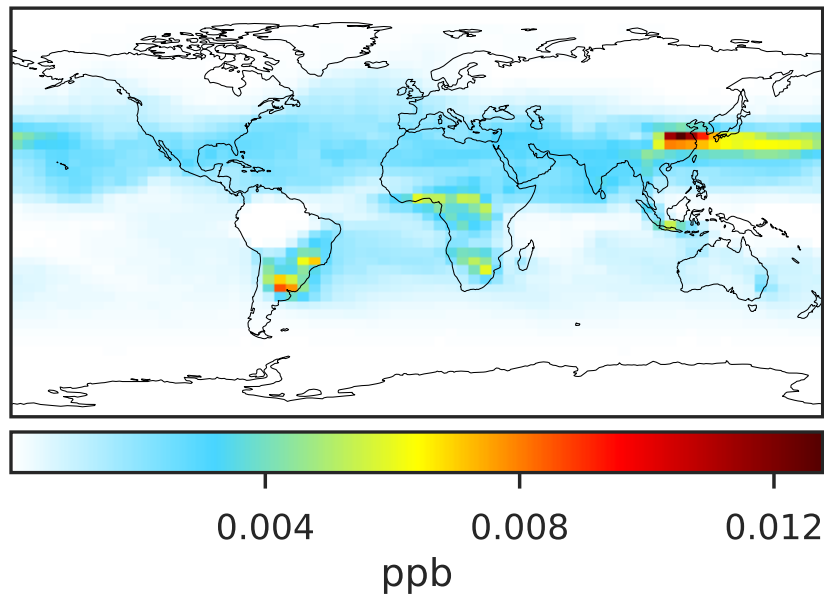
Ratio  
Dev/Ref, Fixed Range



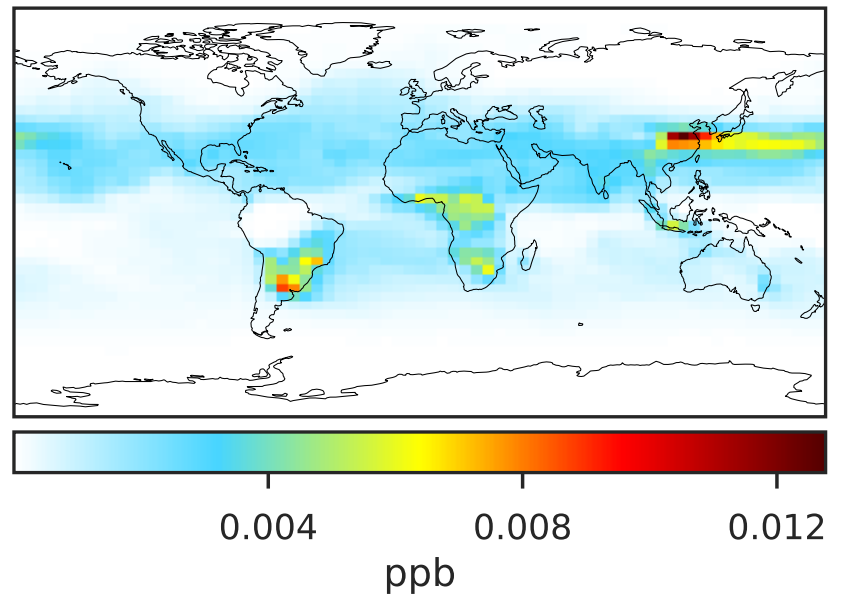
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_N2O5 (Jan2019)

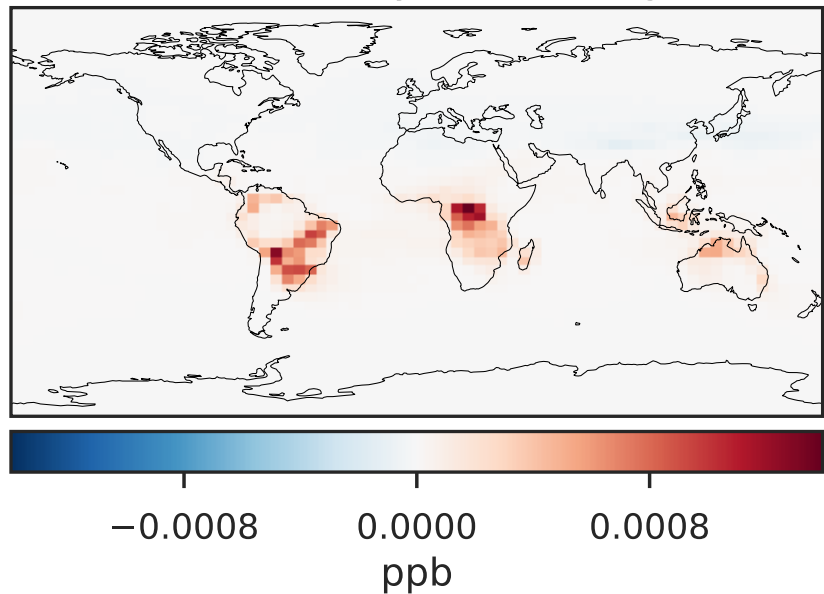
14.2.0-rc.2 (Ref)  
4.0x5.0



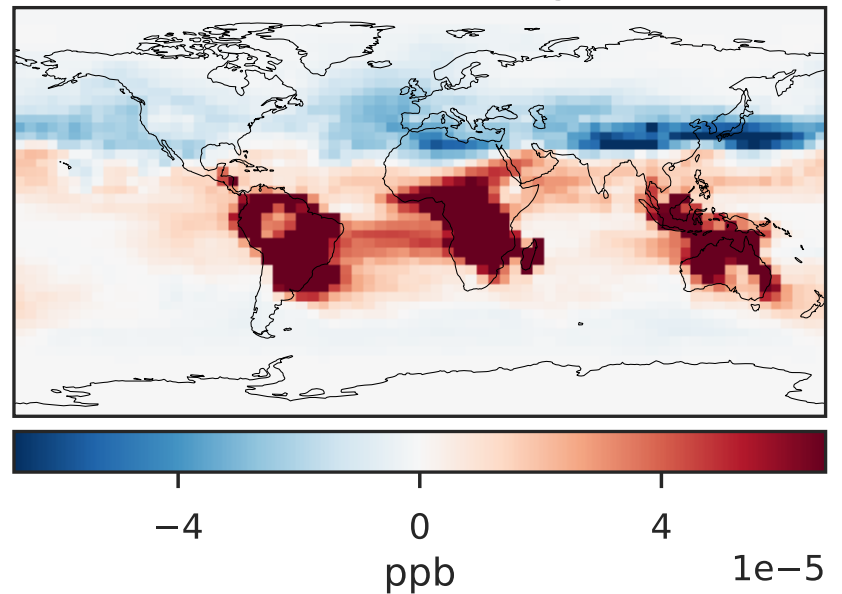
14.3.0-rc.0 (Dev)  
4.0x5.0



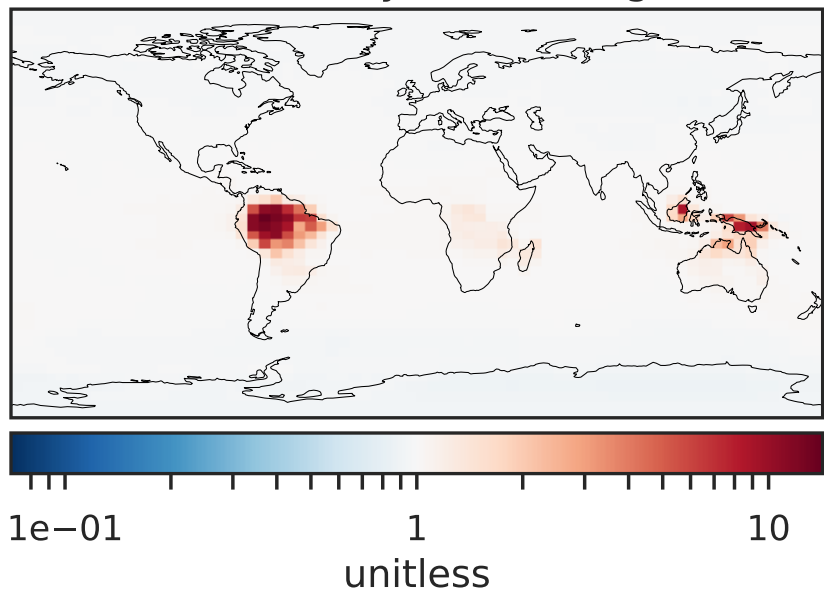
Difference  
Dev - Ref, Dynamic Range



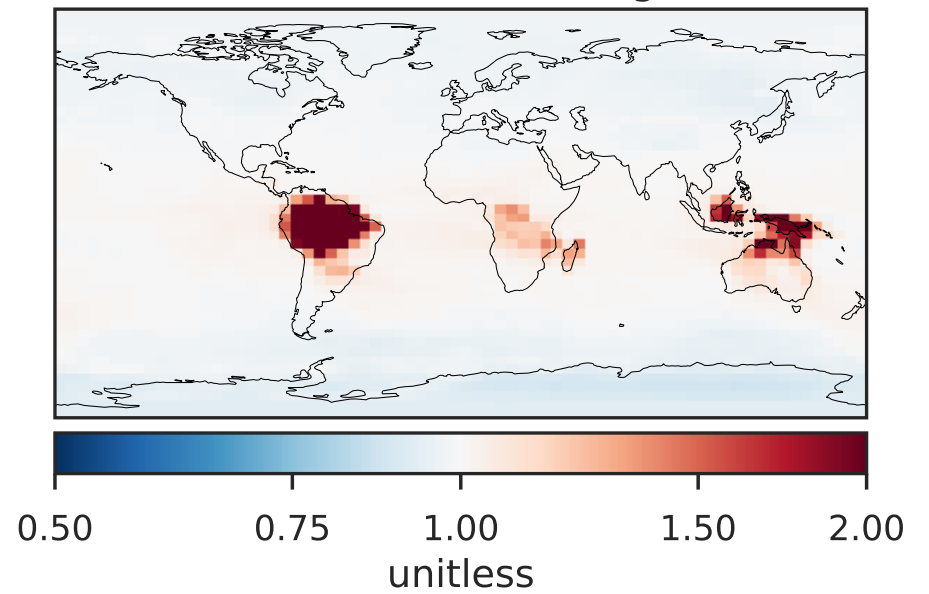
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

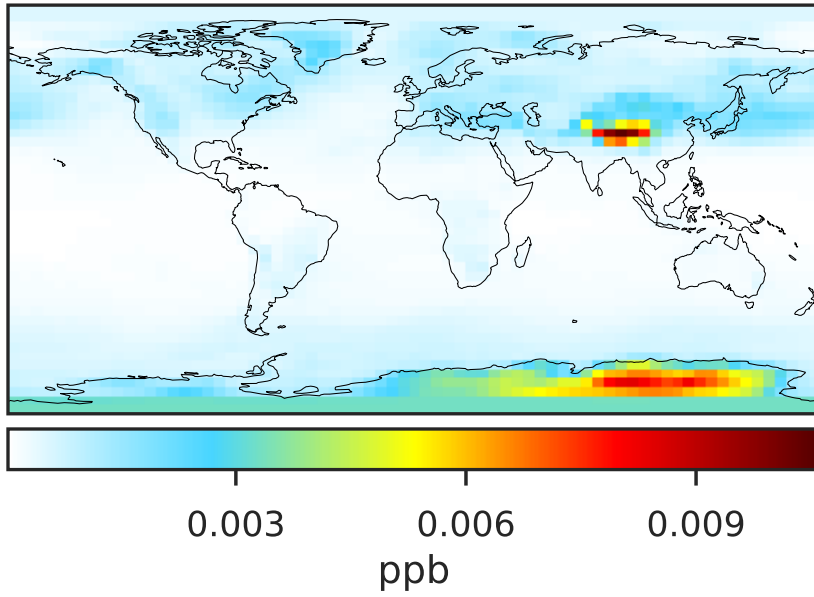


Ratio  
Dev/Ref, Fixed Range

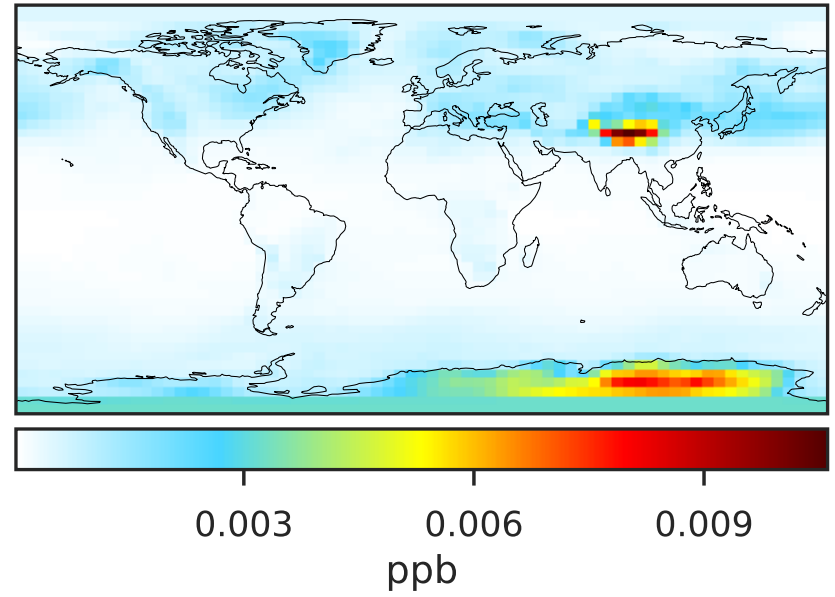


# SpeciesConcVV\_MPN (Jan2019)

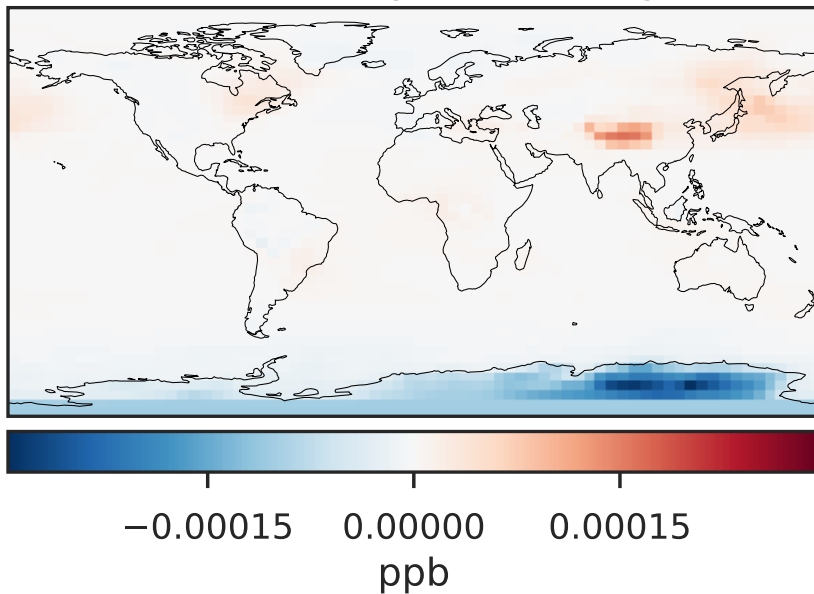
14.2.0-rc.2 (Ref)  
4.0x5.0



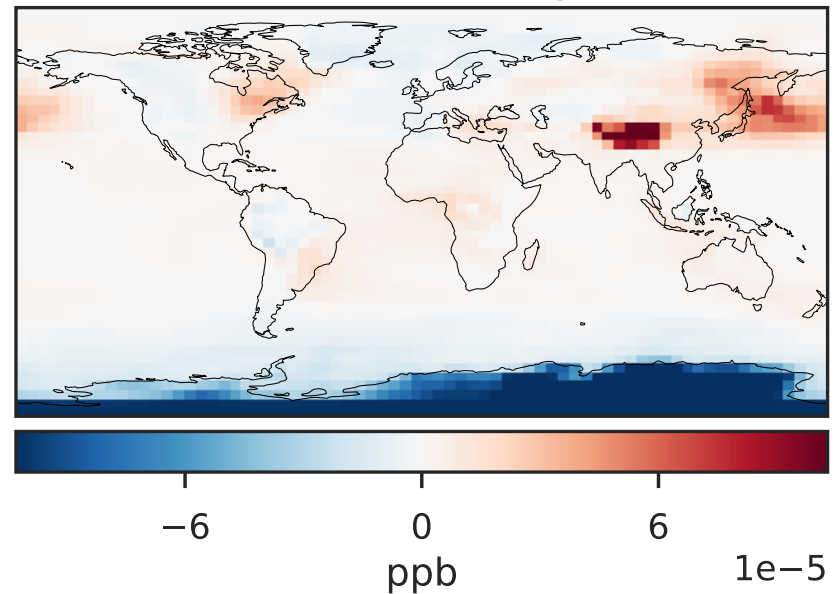
14.3.0-rc.0 (Dev)  
4.0x5.0



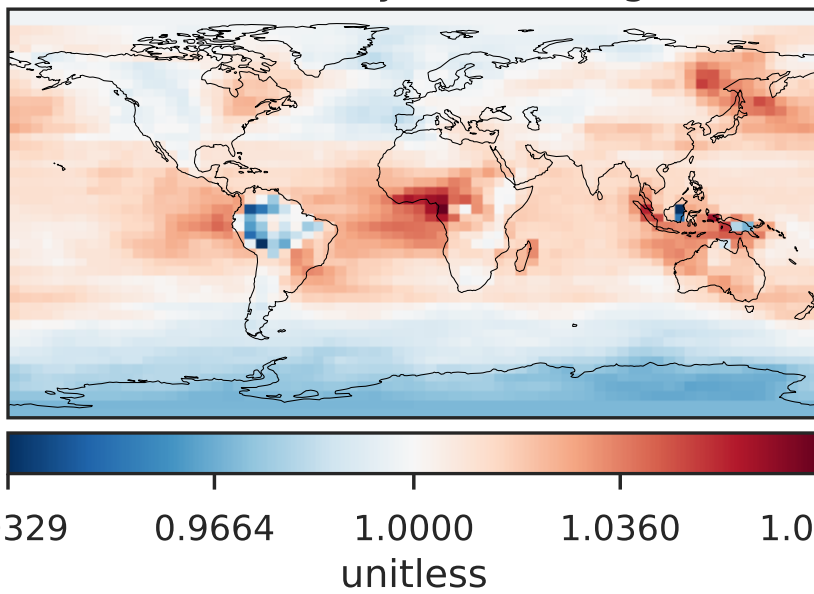
Difference  
Dev - Ref, Dynamic Range



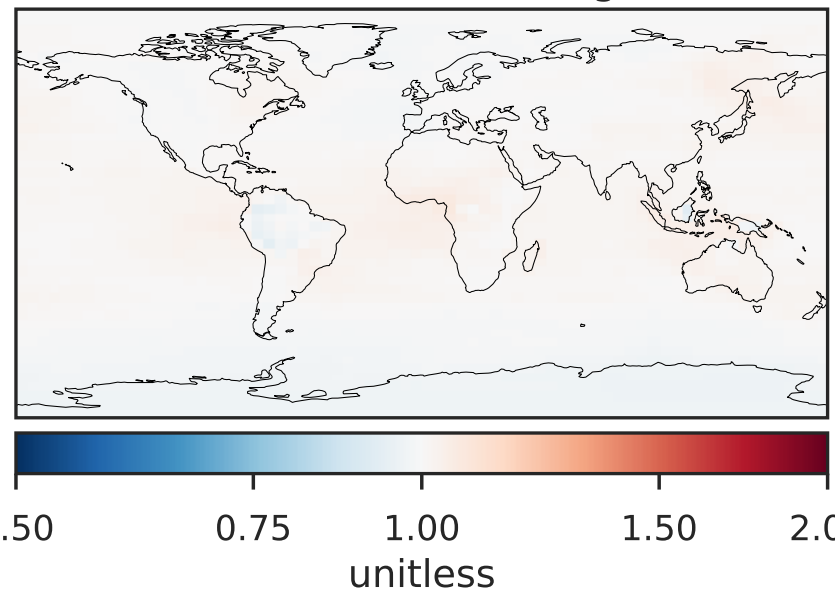
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



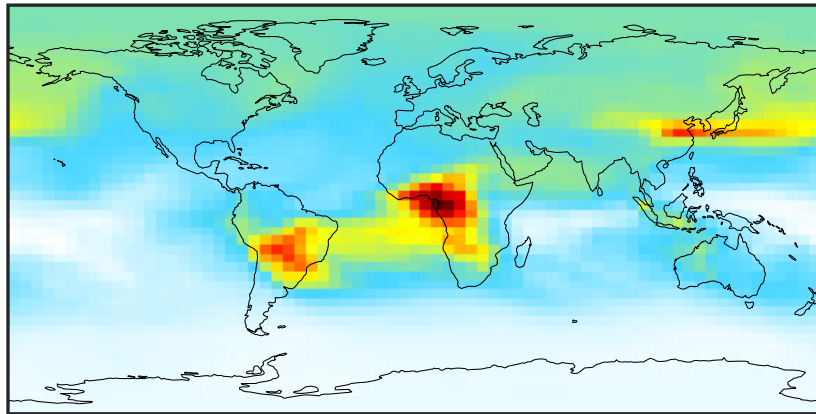
Ratio  
Dev/Ref, Fixed Range





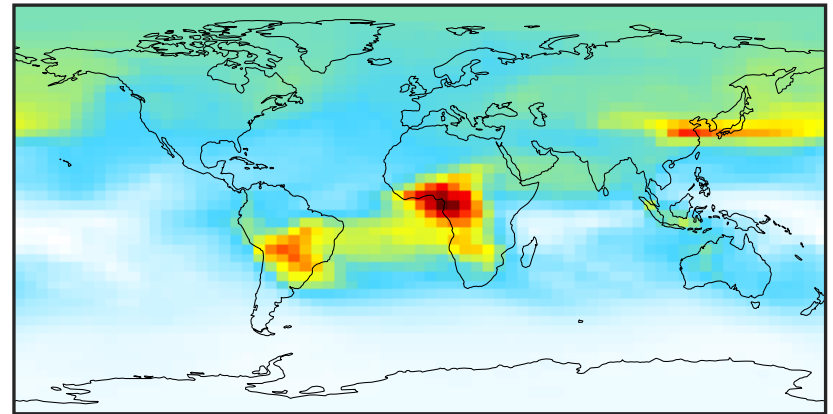
# SpeciesConcVV\_PAN (Jan2019)

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



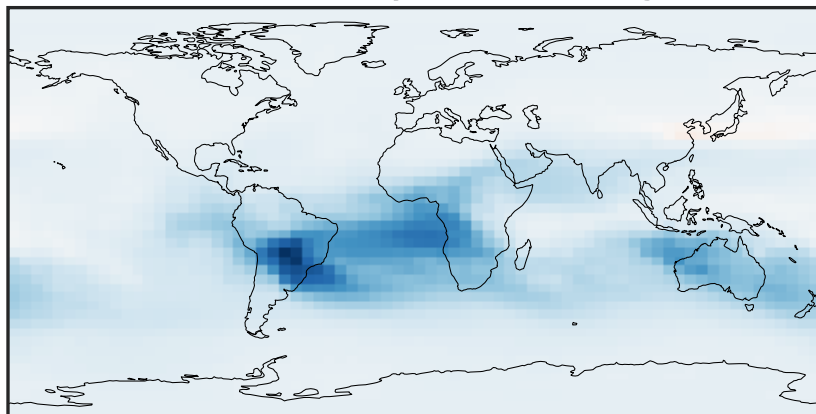
0.0088 0.1027 0.1965 0.2904 0.3843  
ppb

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



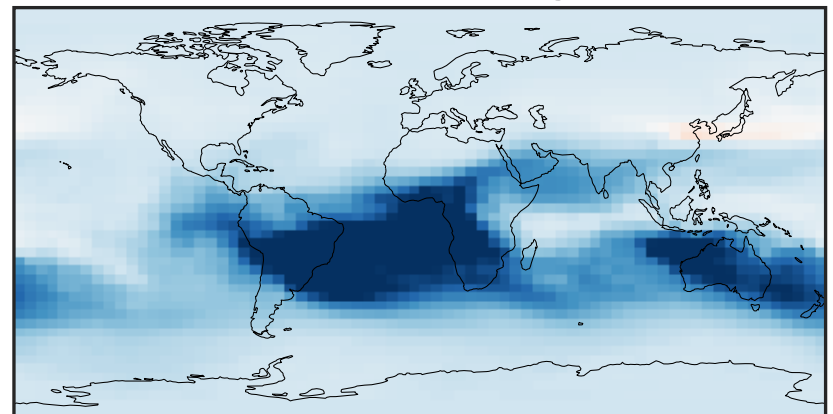
0.0088 0.1027 0.1965 0.2904 0.3843  
ppb

Difference  
Dev - Ref, Dynamic Range



-0.008 0.000 0.008  
ppb

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



-0.004 0.000 0.004  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.996367 0.998183 1.000000 1.001823 1.003646  
unitless

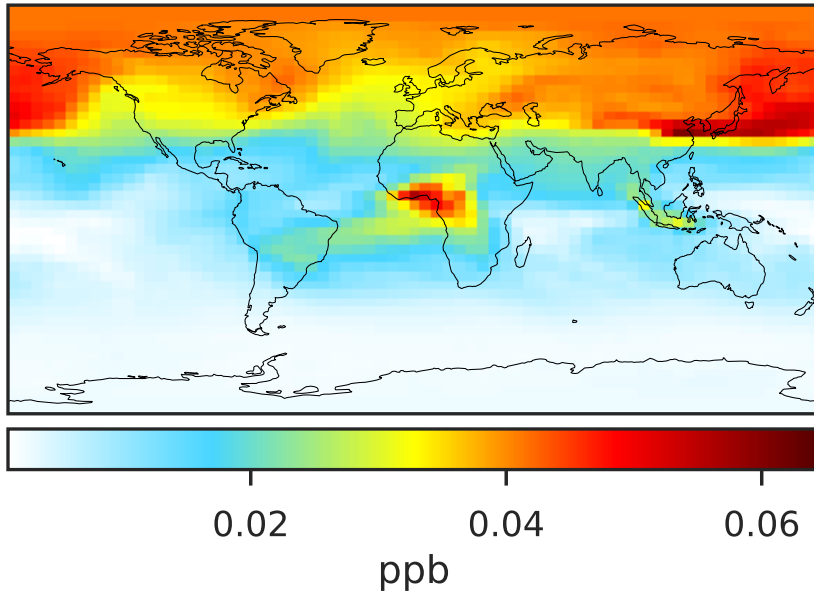
Ratio  
Dev/Ref, Fixed Range



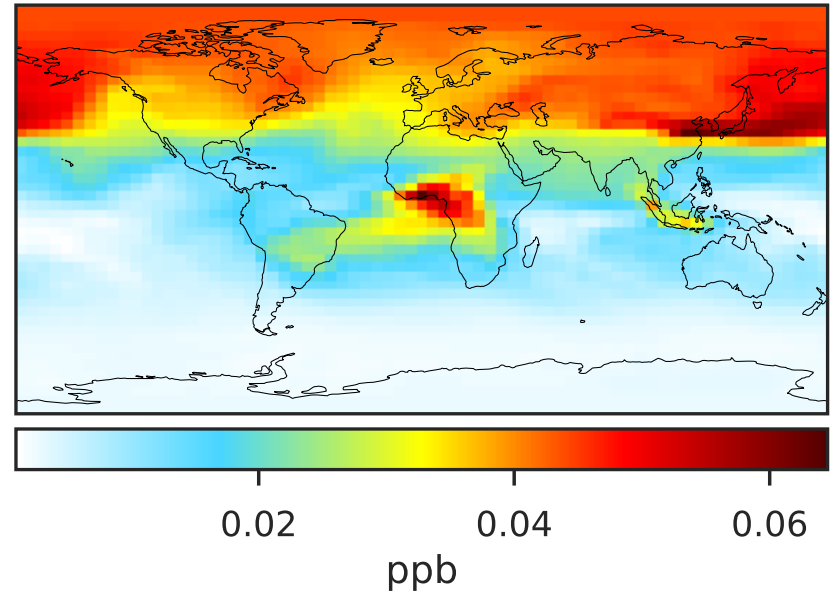
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_PPN (Jan2019)

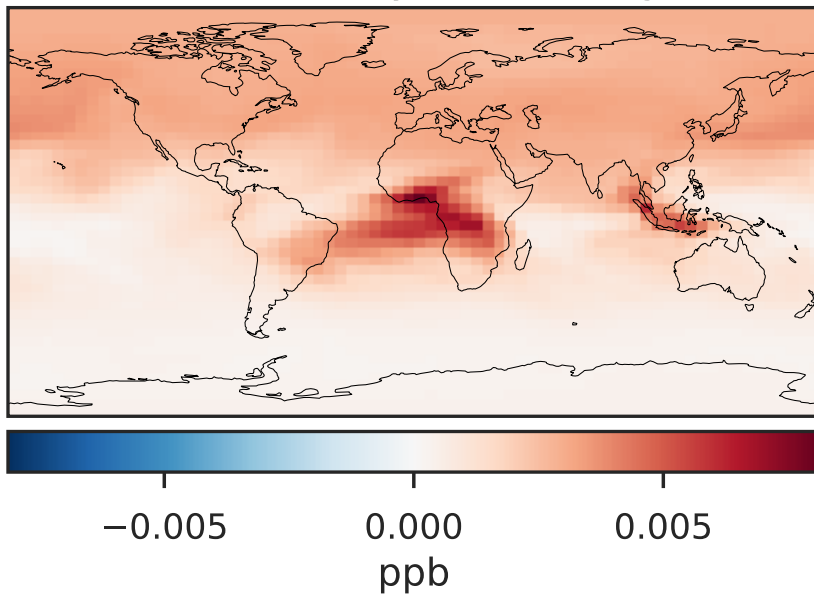
14.2.0-rc.2 (Ref)  
4.0x5.0



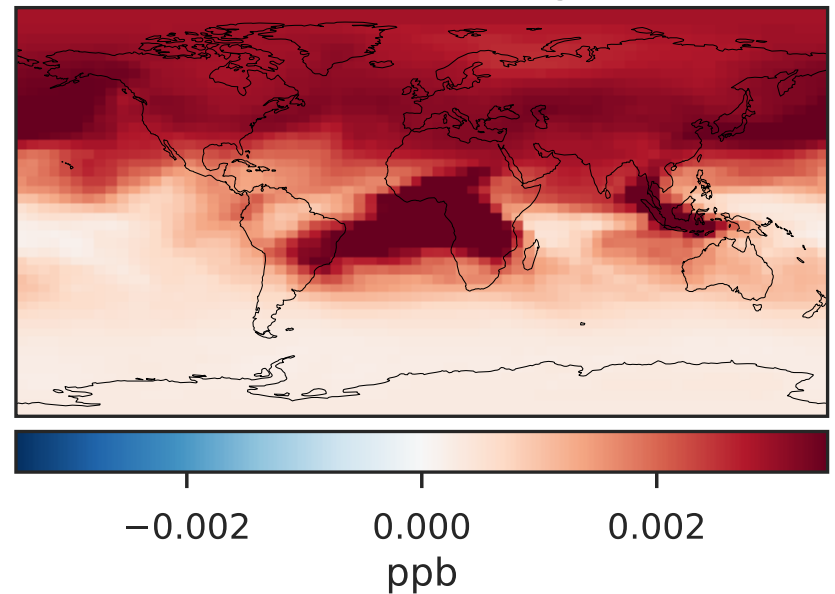
14.3.0-rc.0 (Dev)  
4.0x5.0



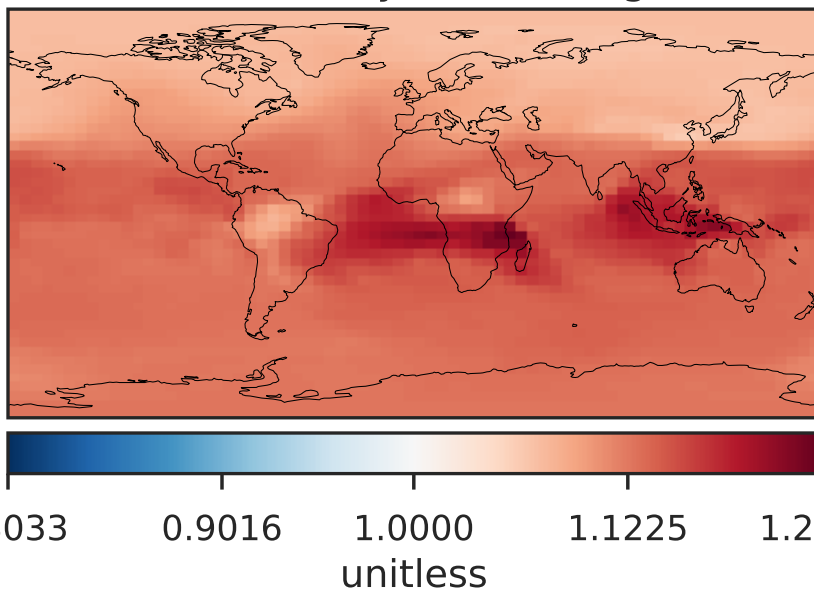
Difference  
Dev - Ref, Dynamic Range



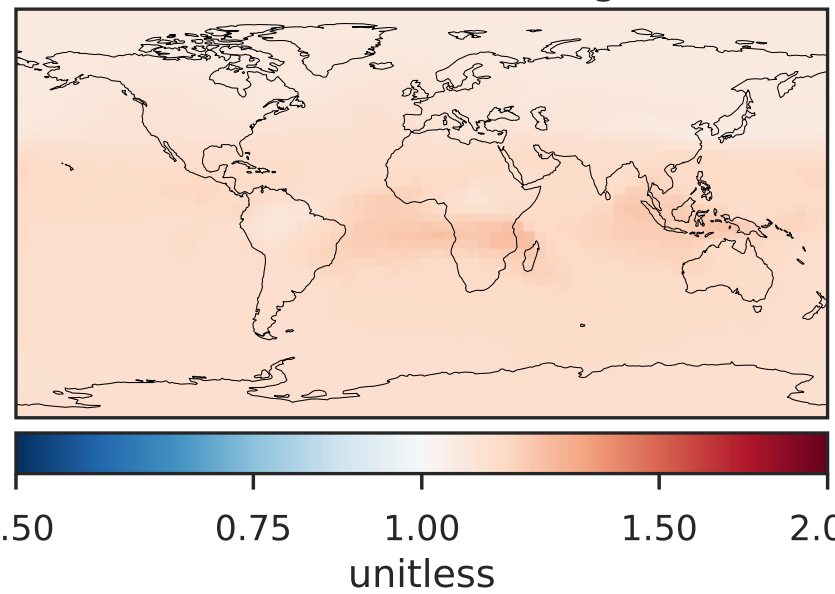
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

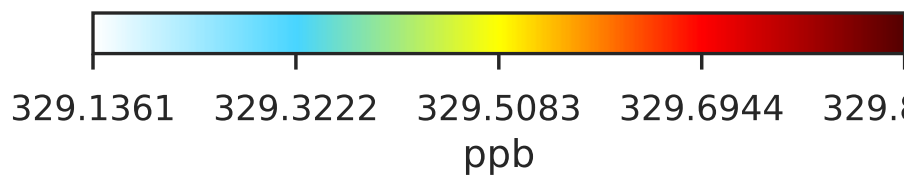
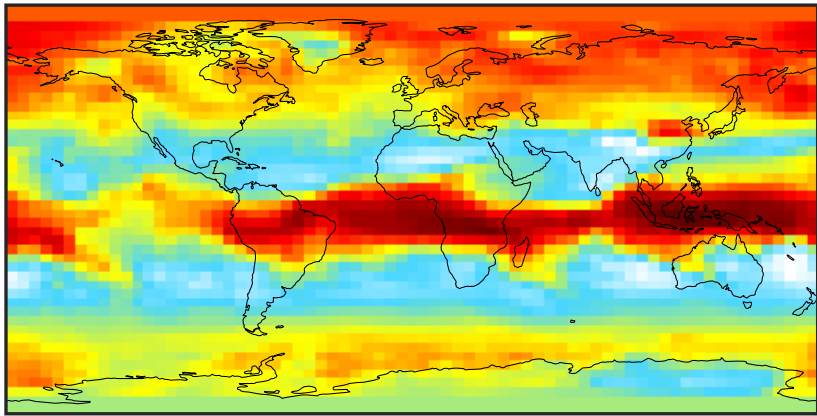


Ratio  
Dev/Ref, Fixed Range

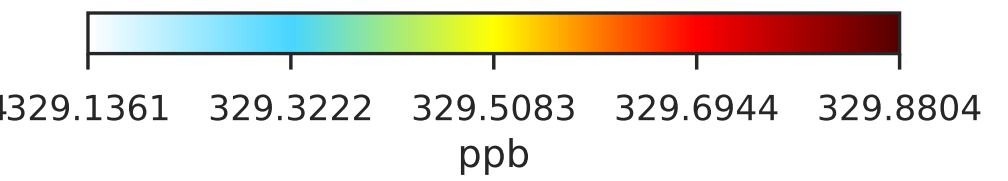
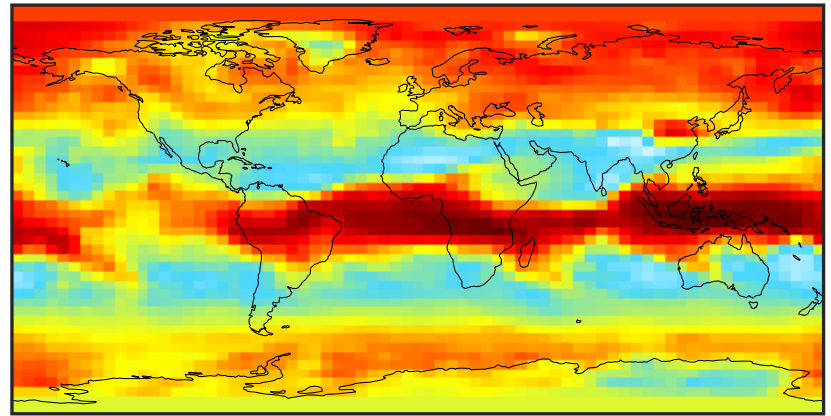


# SpeciesConcVV\_N2O (Jan2019)

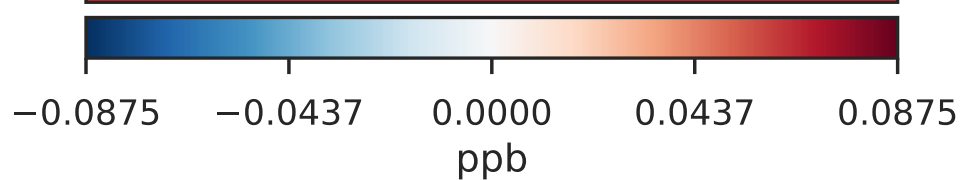
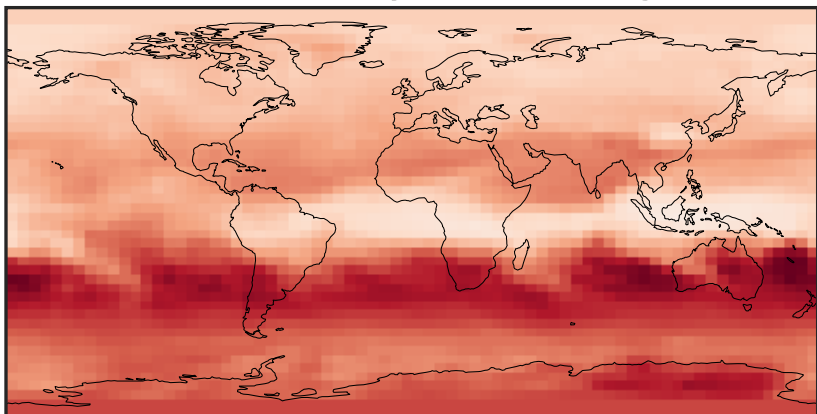
14.2.0-rc.2 (Ref)  
4.0x5.0



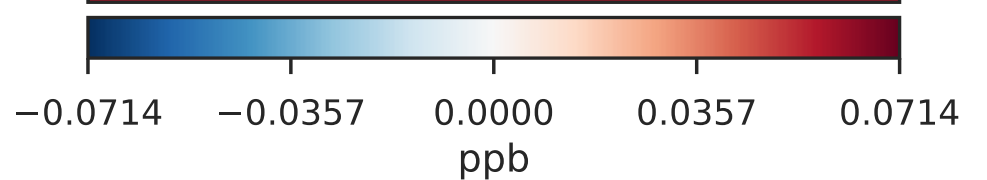
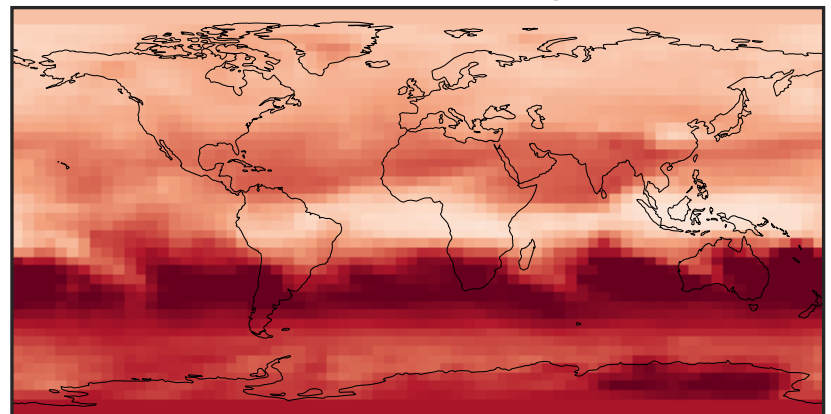
14.3.0-rc.0 (Dev)  
4.0x5.0



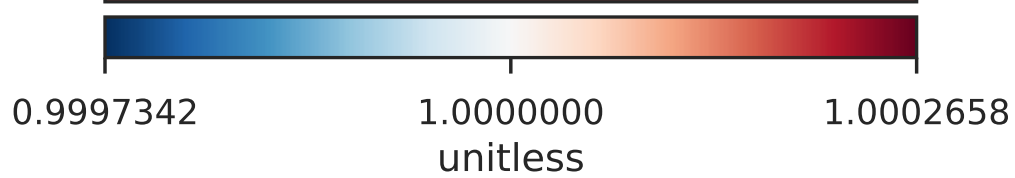
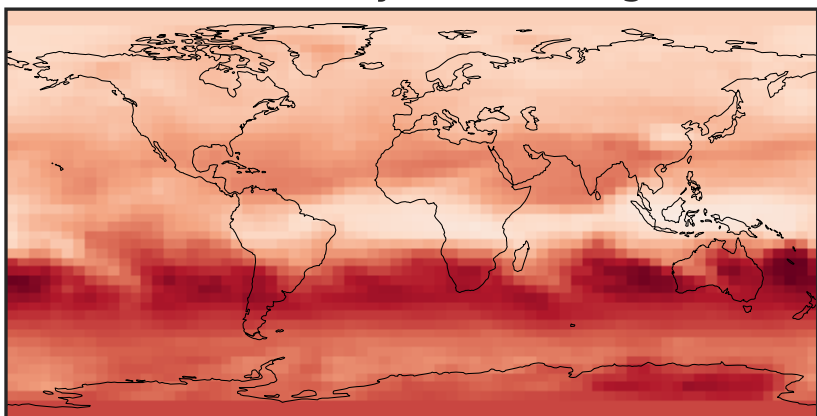
Difference  
Dev - Ref, Dynamic Range



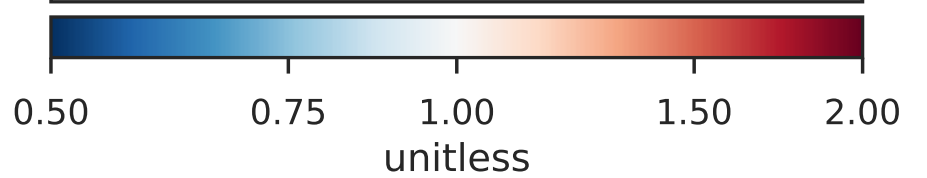
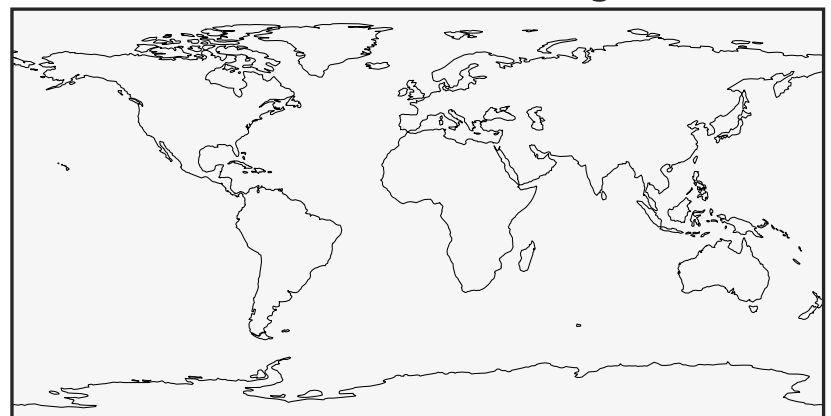
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

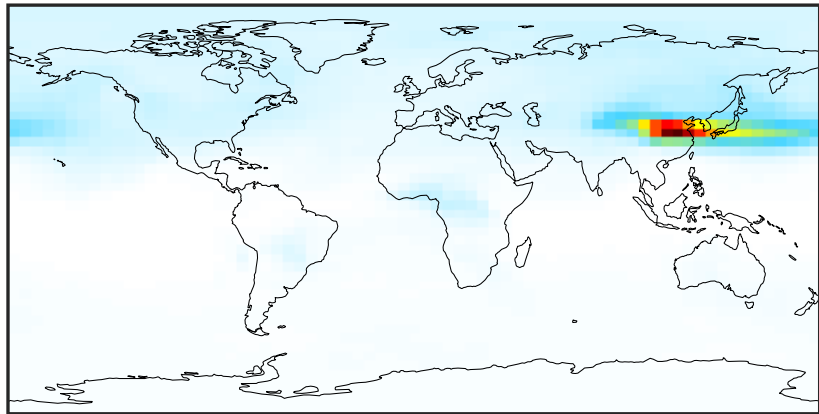


Ratio  
Dev/Ref, Fixed Range



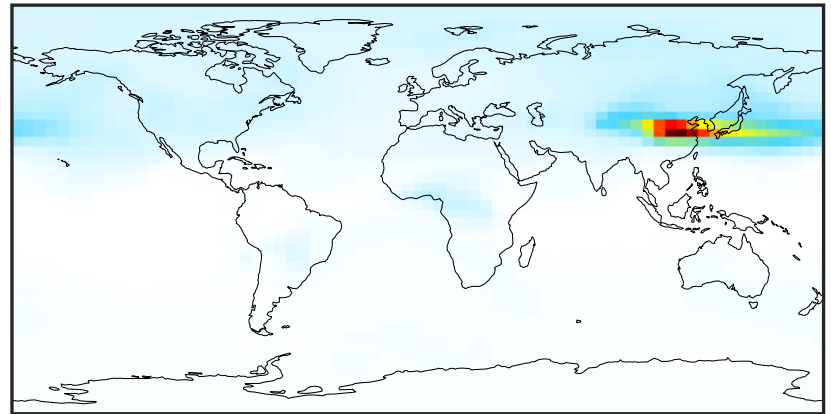
# SpeciesConcVV\_NHx (Jan2019)

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



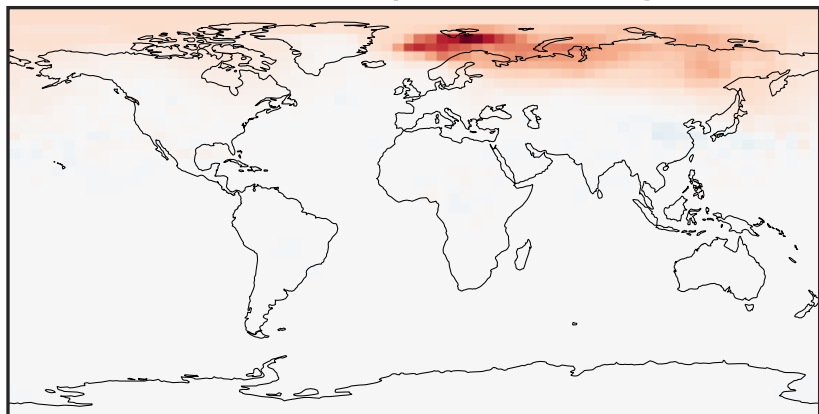
0.000 0.354 0.708 1.061 1.415  
ppb

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



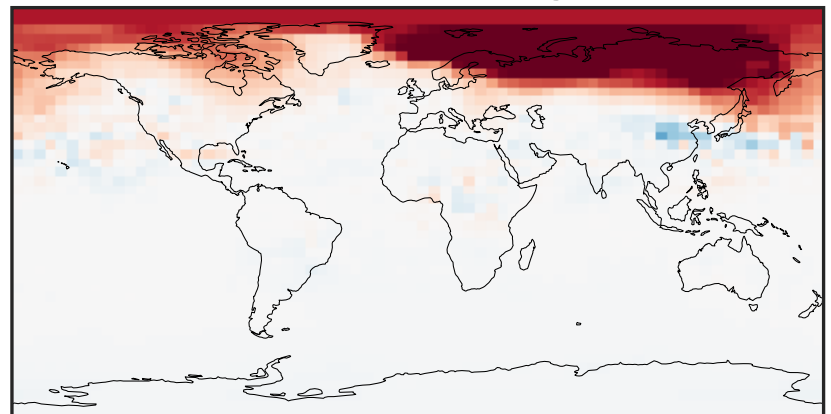
0.000 0.354 0.708 1.061 1.415  
ppb

Difference  
Dev - Ref, Dynamic Range



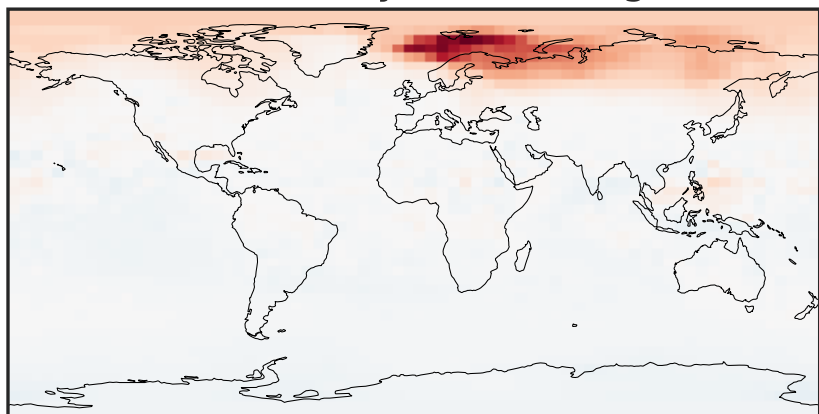
-0.004 0.000 0.004  
ppb

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



-0.0008 0.0000 0.0008  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.9373 0.9687 1.0000 1.0334 1.0669  
unitless

Ratio  
Dev/Ref, Fixed Range

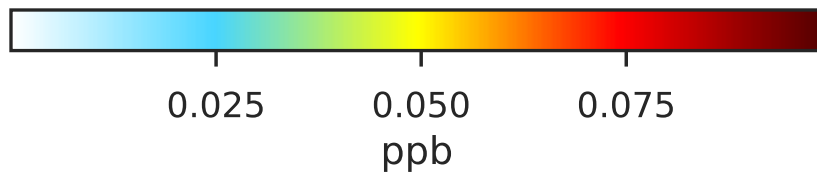
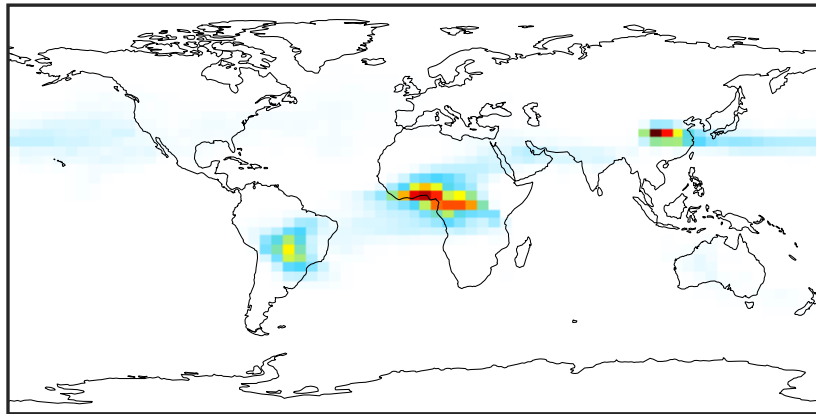


0.50 0.75 1.00 1.50 2.00  
unitless

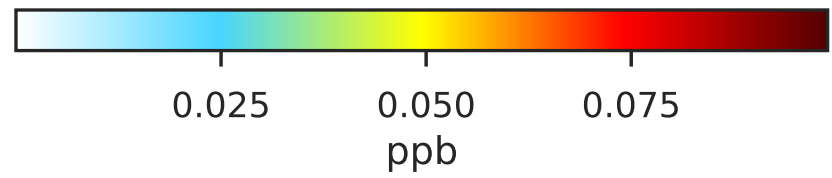
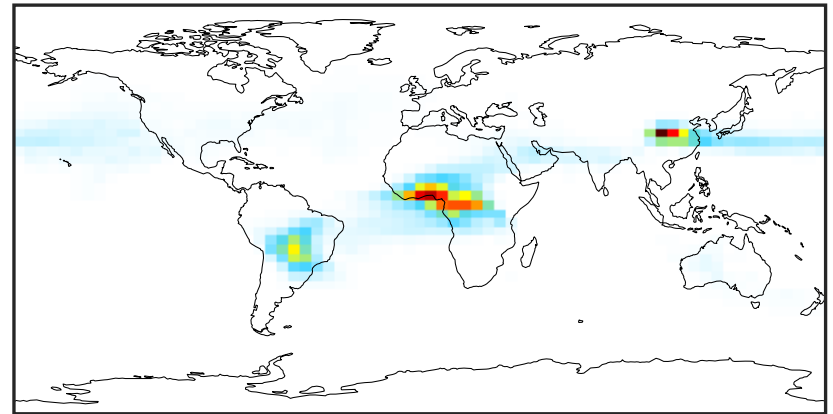


# SpeciesConcVV\_NH3 (Jan2019)

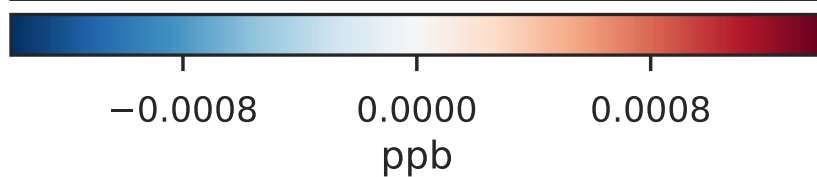
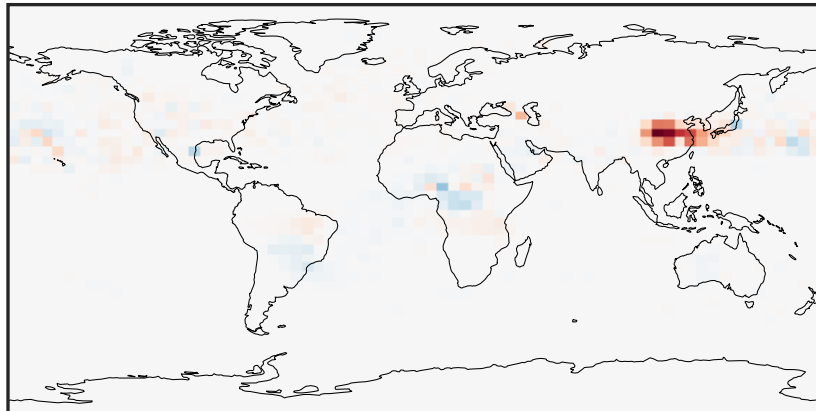
14.2.0-rc.2 (Ref)  
4.0x5.0



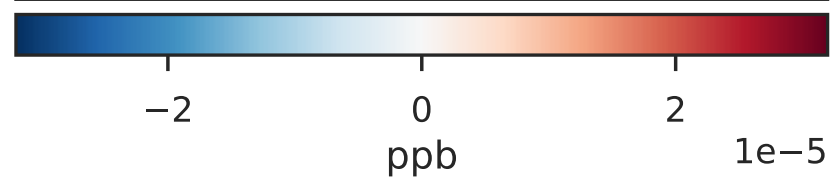
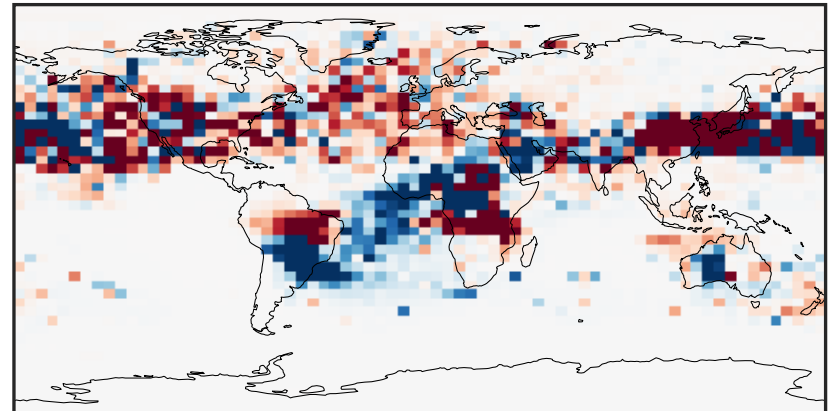
14.3.0-rc.0 (Dev)  
4.0x5.0



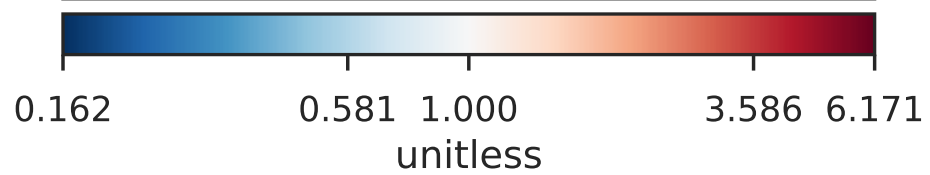
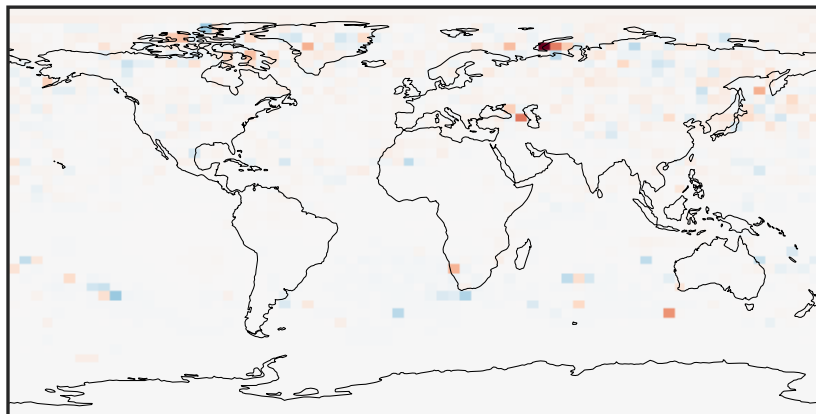
Difference  
Dev - Ref, Dynamic Range



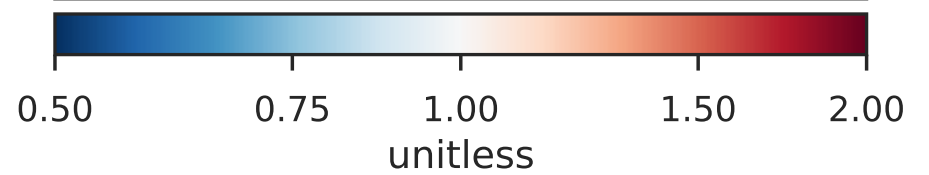
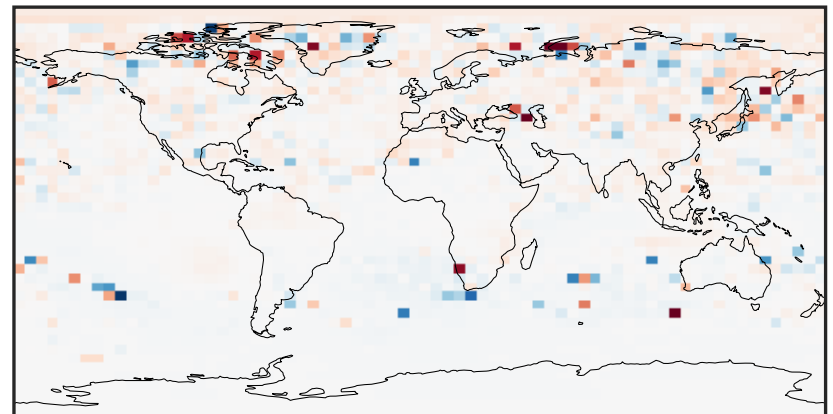
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

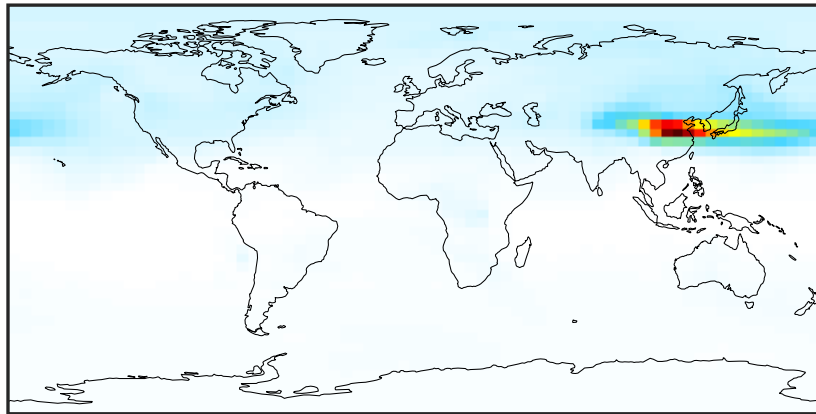


Ratio  
Dev/Ref, Fixed Range



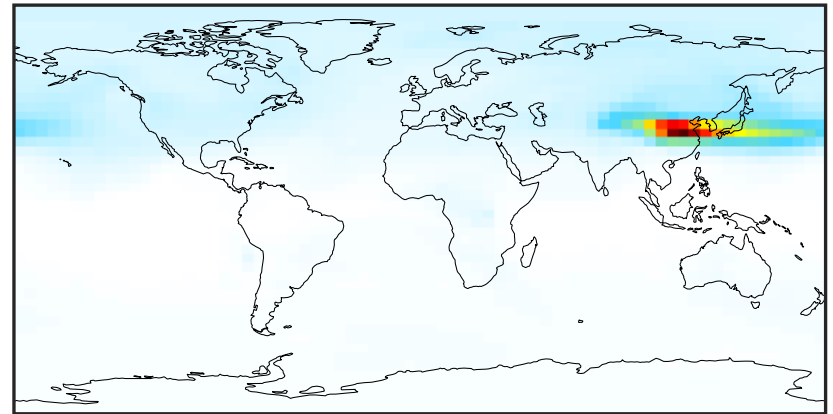
# SpeciesConcVV\_NH4 (Jan2019)

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



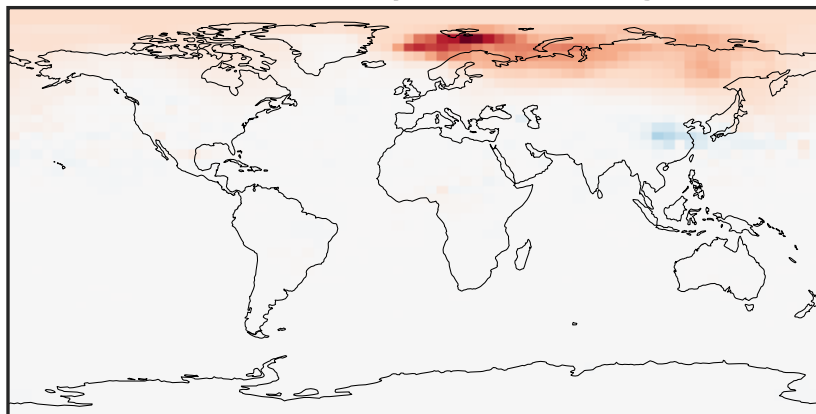
0.000 0.342 0.684 1.026 1.367  
ppb

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



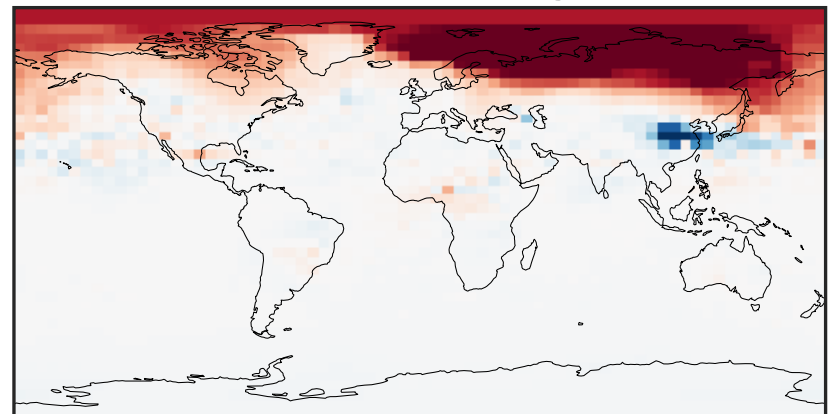
0.000 0.342 0.684 1.026 1.367  
ppb

Difference  
Dev - Ref, Dynamic Range



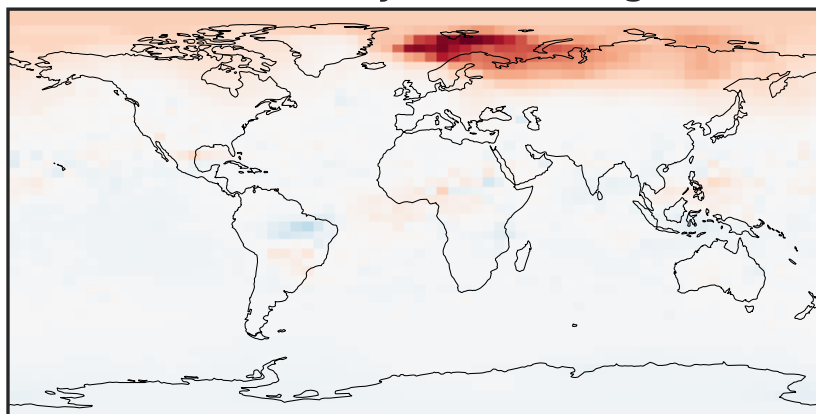
-0.004 0.000 0.004  
ppb

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



-0.0008 0.0000 0.0008  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.9373 0.9686 1.0000 1.0335 1.0669  
unitless

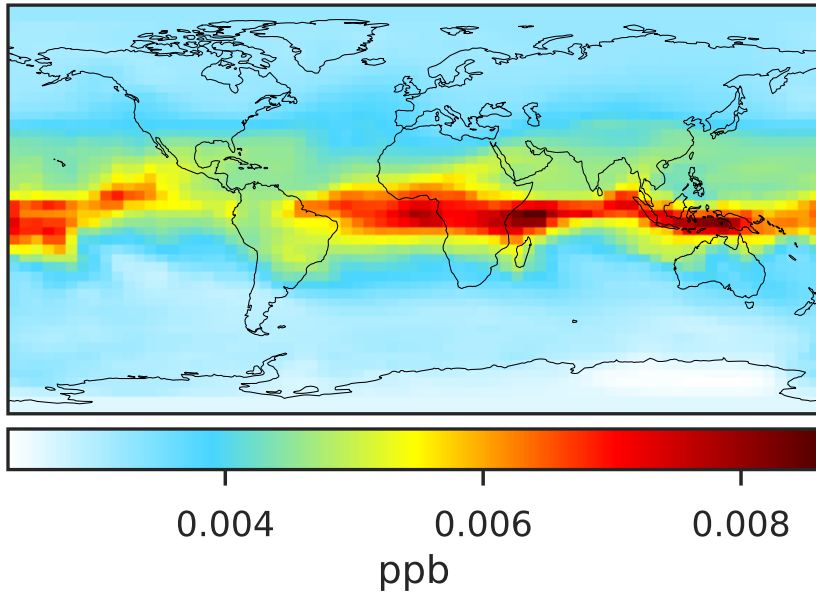
Ratio  
Dev/Ref, Fixed Range



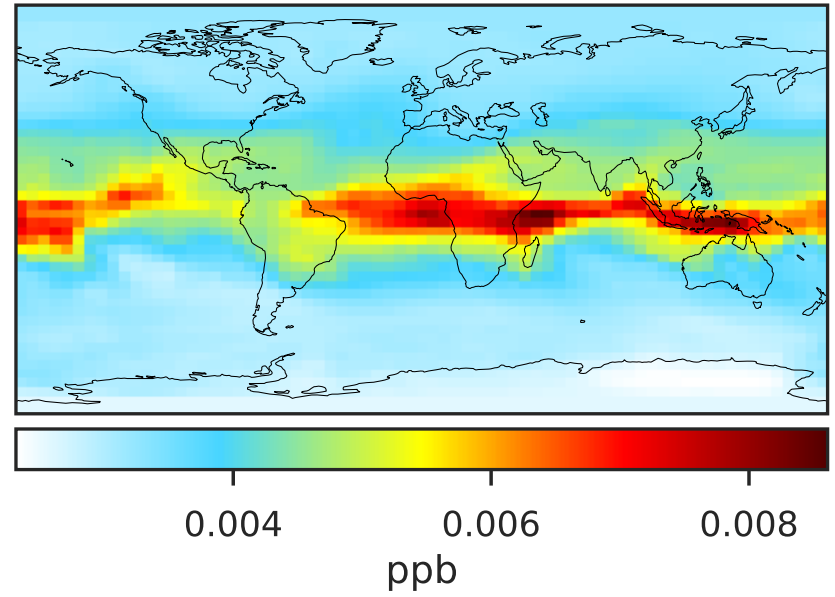
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_MENO3 (Jan2019)

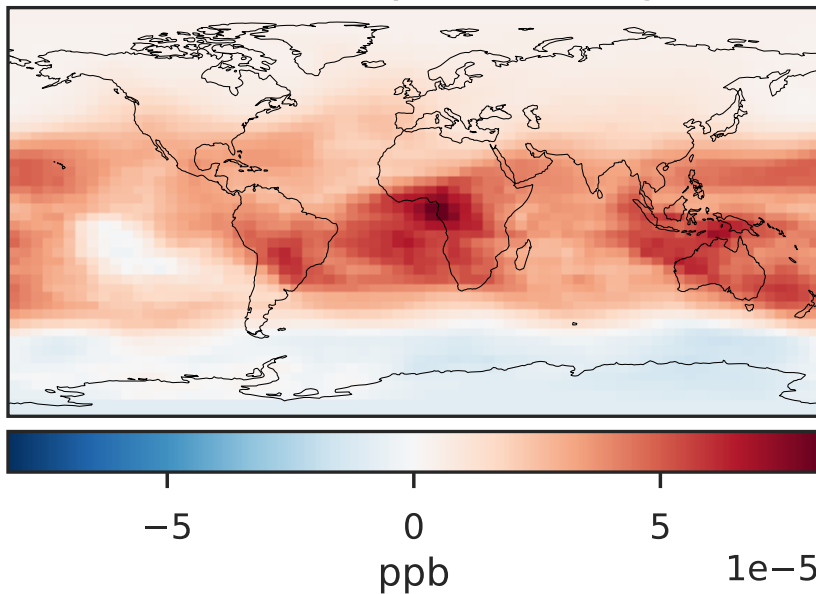
14.2.0-rc.2 (Ref)  
4.0x5.0



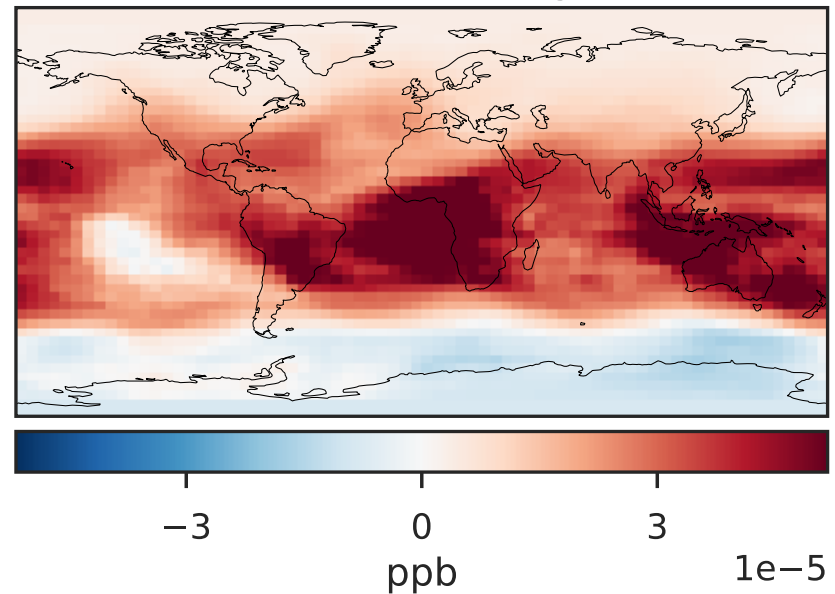
14.3.0-rc.0 (Dev)  
4.0x5.0



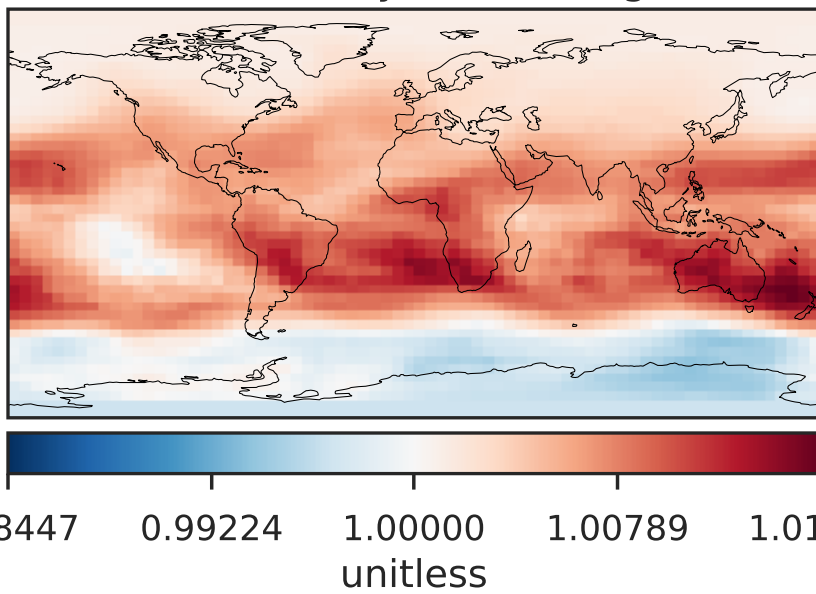
Difference  
Dev - Ref, Dynamic Range



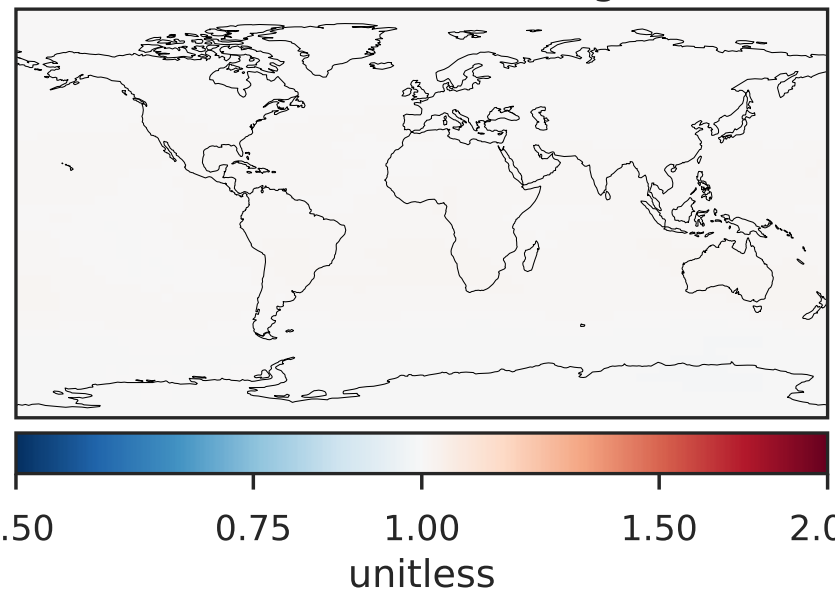
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

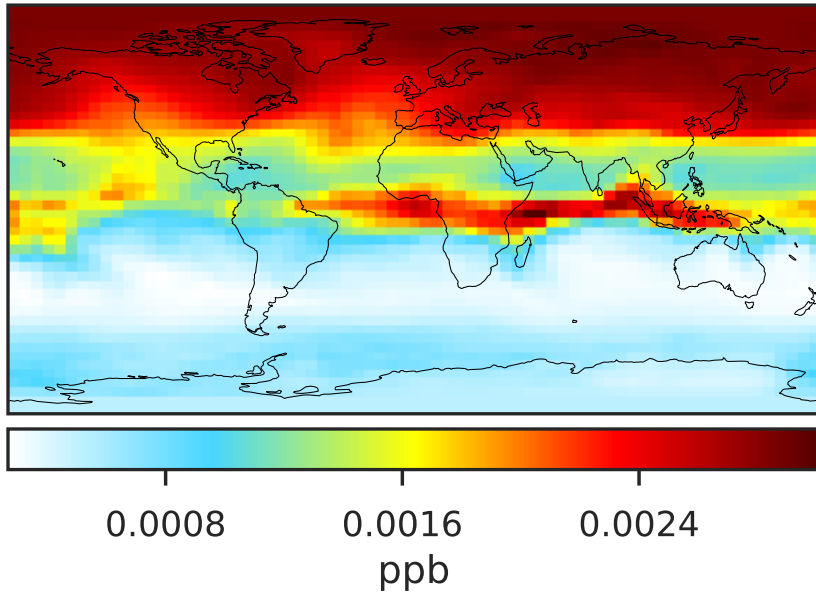


Ratio  
Dev/Ref, Fixed Range

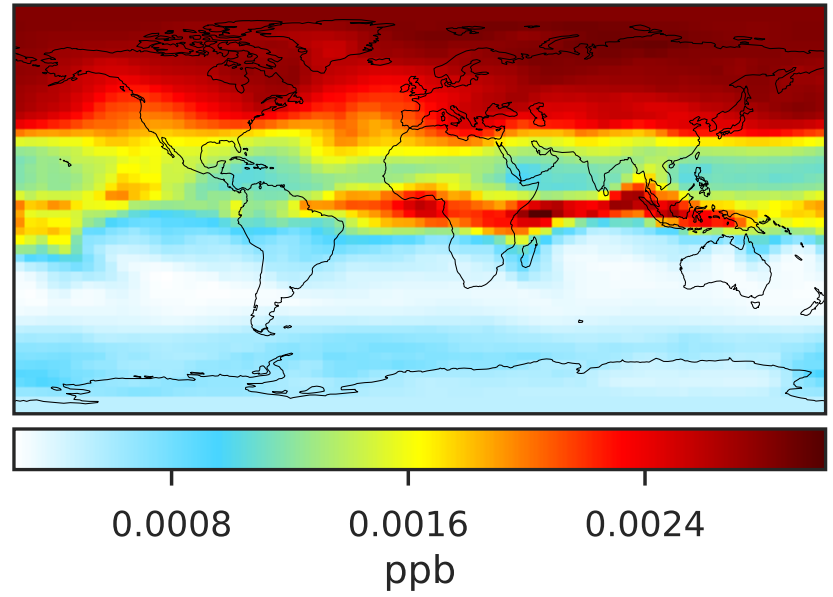


# SpeciesConcVV\_ETNO3 (Jan2019)

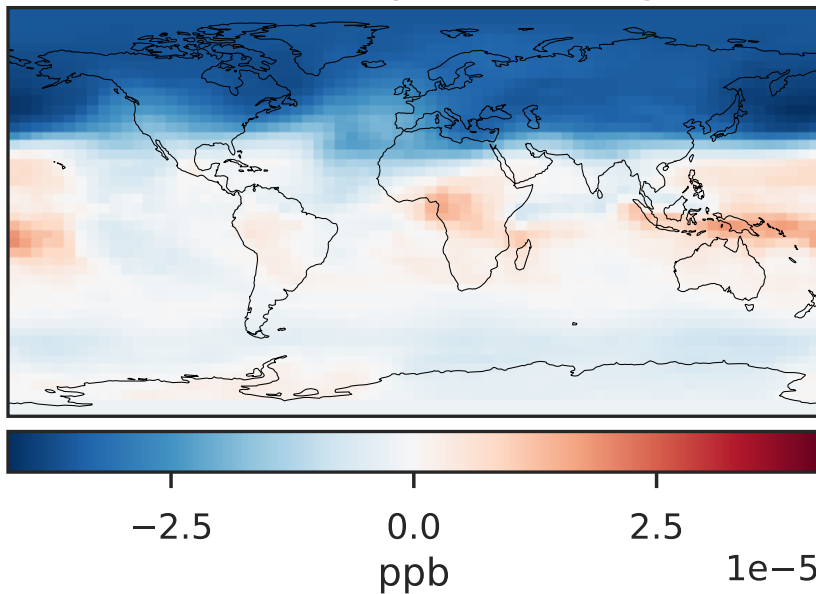
14.2.0-rc.2 (Ref)  
4.0x5.0



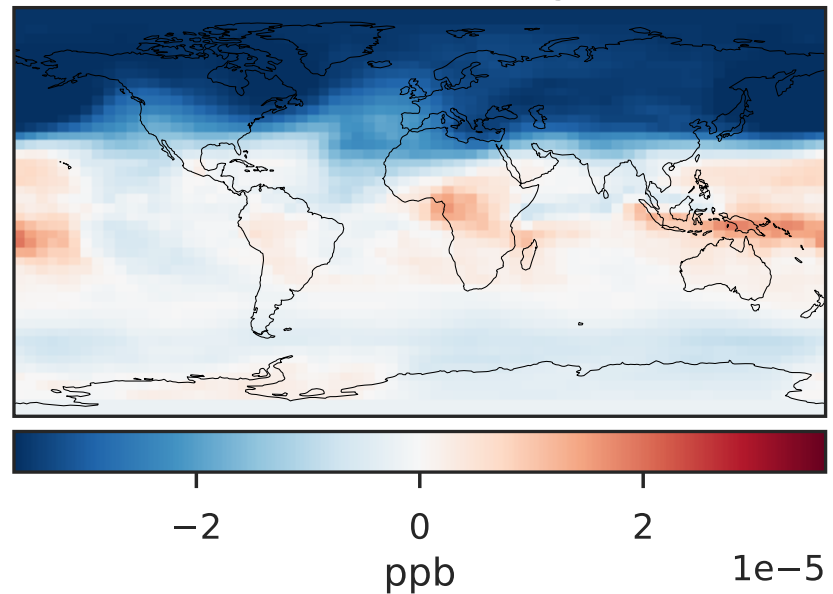
14.3.0-rc.0 (Dev)  
4.0x5.0



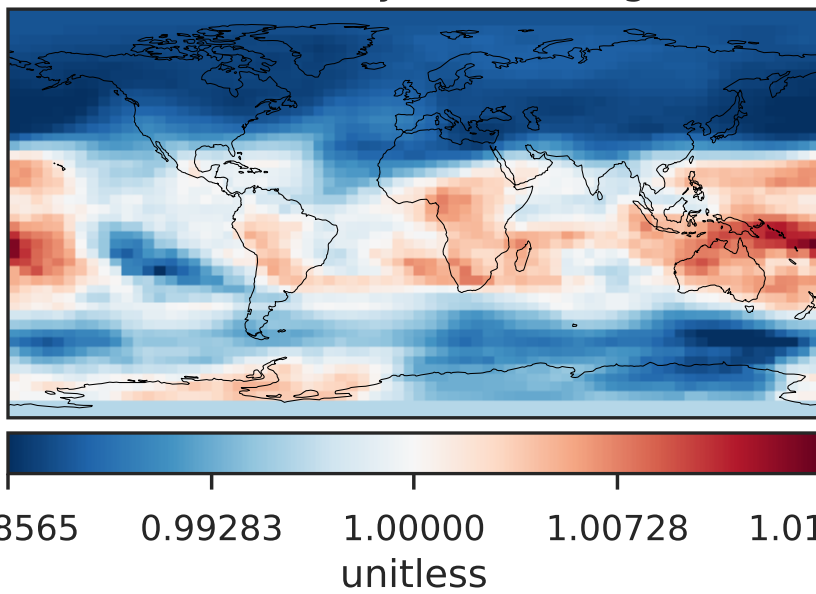
Difference  
Dev - Ref, Dynamic Range



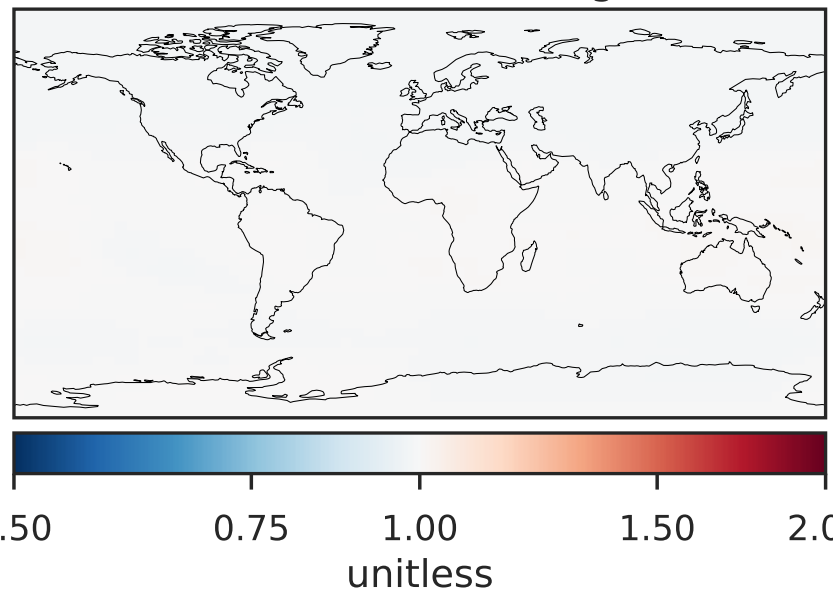
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



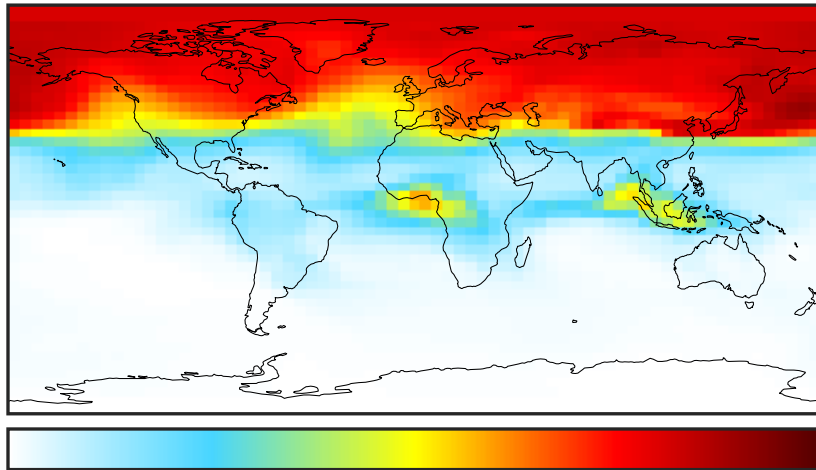
Ratio  
Dev/Ref, Fixed Range





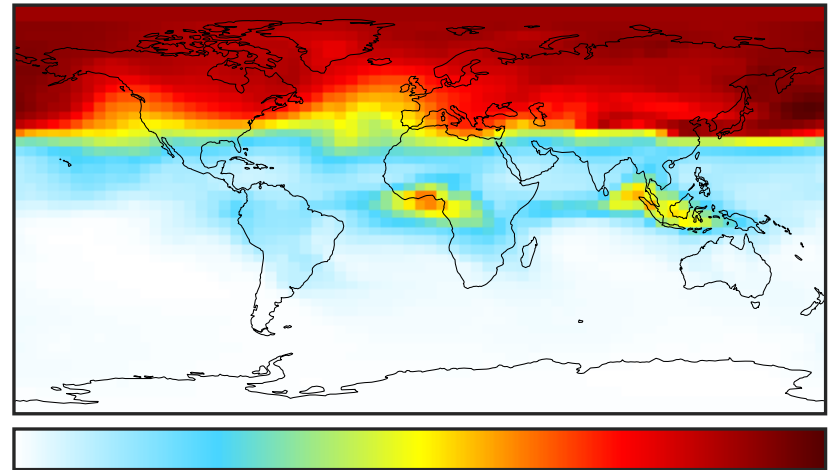
# SpeciesConcVV\_IPRNO3 (Jan2019)

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



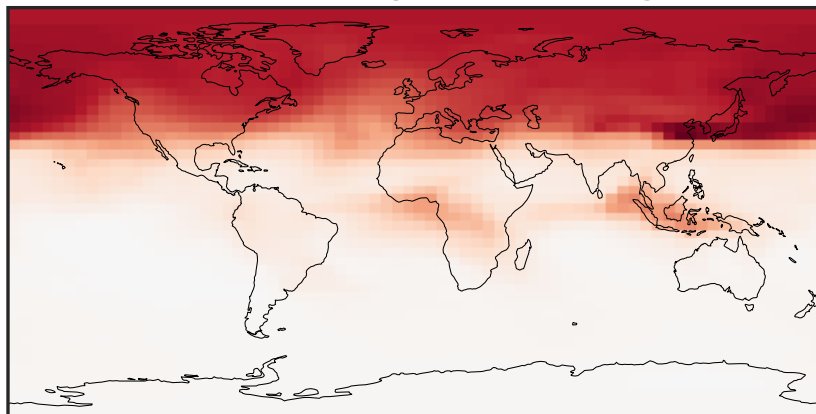
0.004 0.008 0.012  
ppb

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



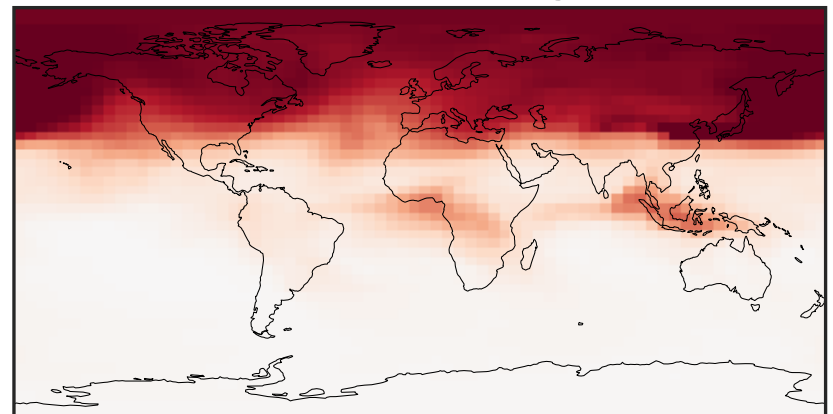
0.004 0.008 0.012  
ppb

Difference  
Dev - Ref, Dynamic Range



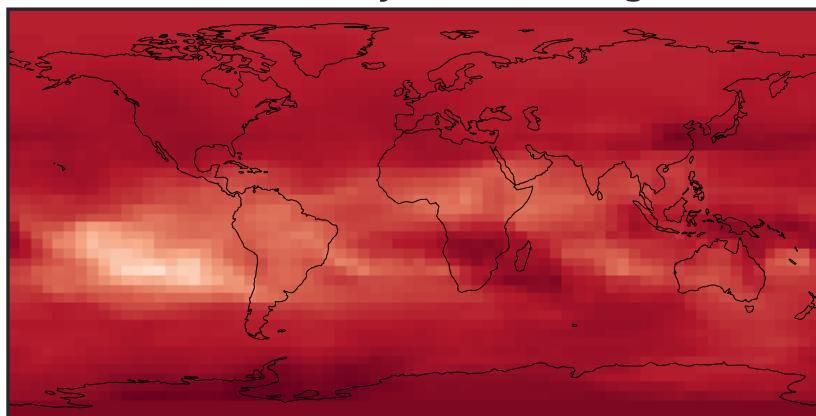
-0.0008 0.0000 0.0008  
ppb

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



-0.0008 0.0000 0.0008  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.8820 0.9410 1.0000 1.0669 1.1337  
unitless

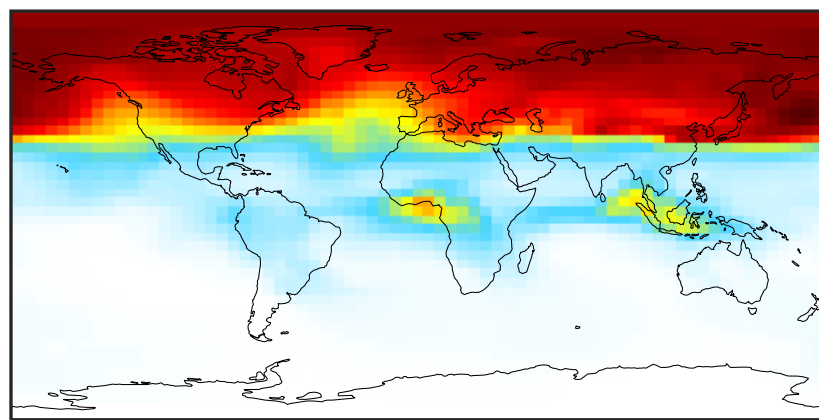
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

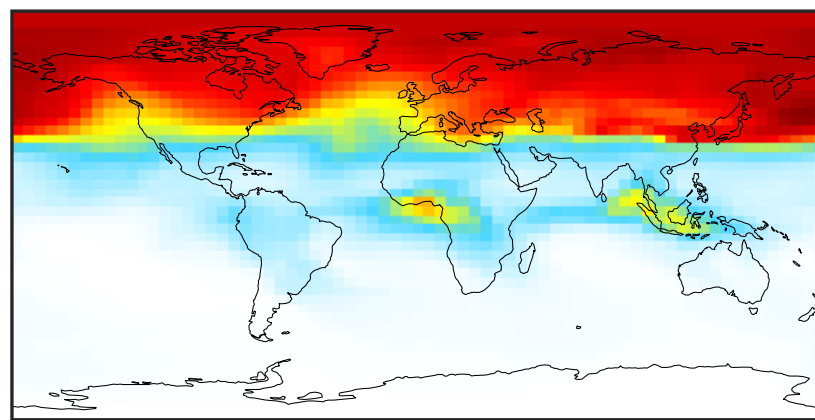
# SpeciesConcVV\_NPRNO3 (Jan2019)

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



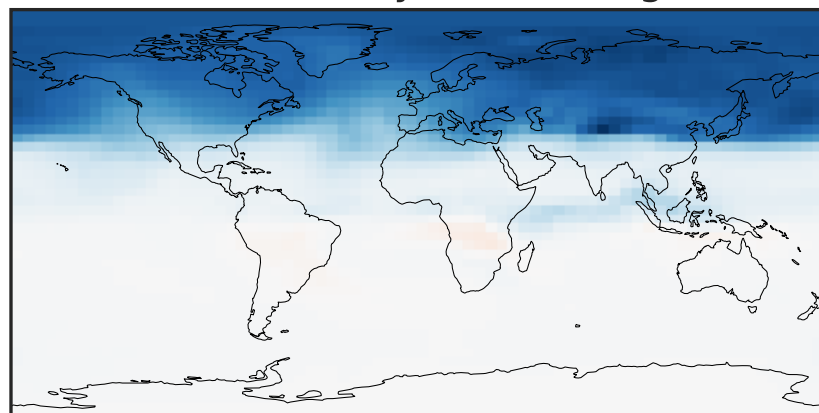
0.001 0.002 0.003  
ppb

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



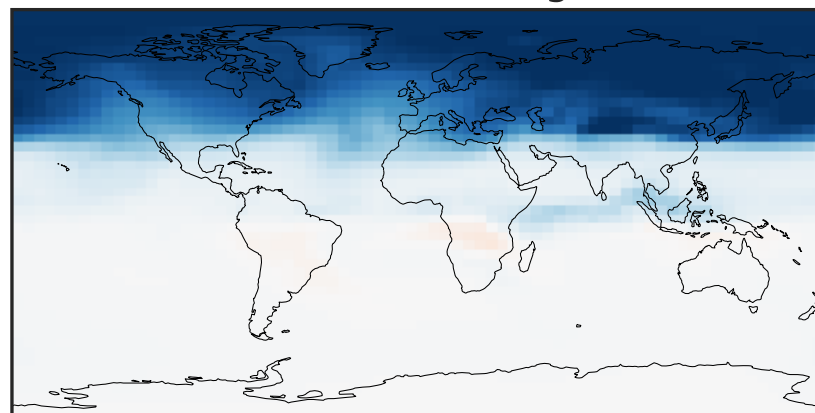
0.001 0.002 0.003  
ppb

Difference  
Dev - Ref, Dynamic Range



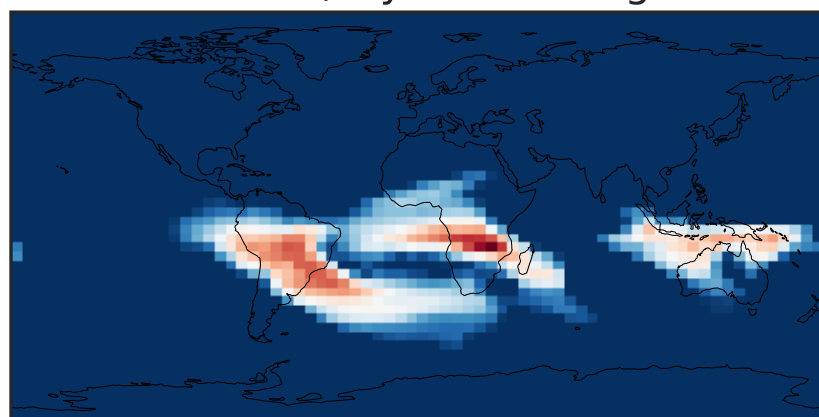
-0.0002 0.0000 0.0002  
ppb

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



-0.00015 0.00000 0.00015  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.95812 0.97906 1.00000 1.02186 1.04371  
unitless

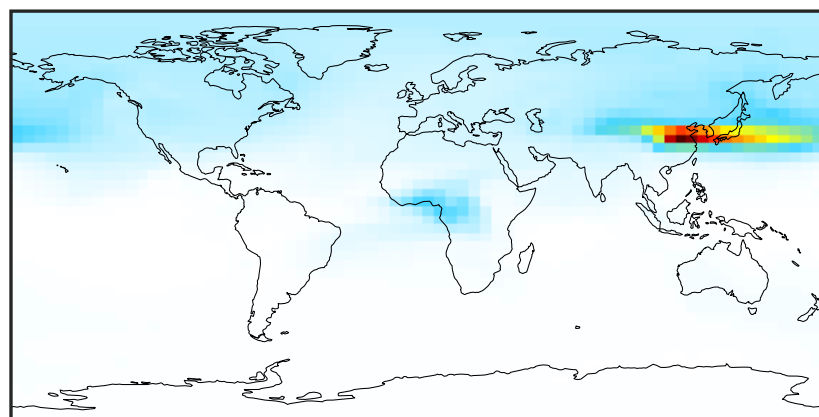
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

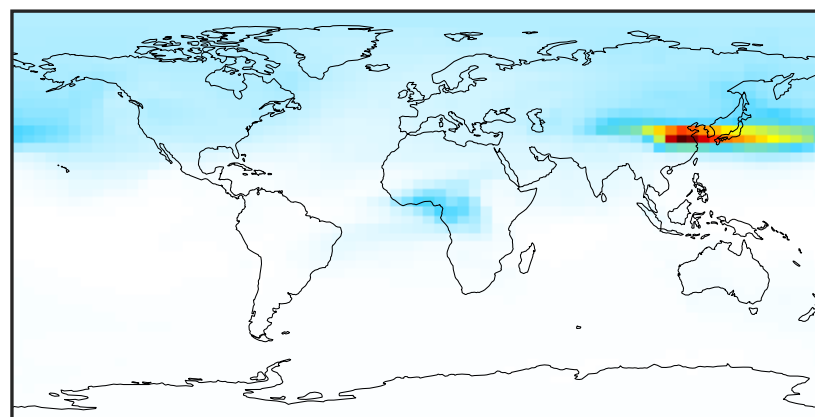
# SpeciesConcVV\_AONITA (Jan2019)

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



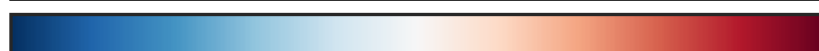
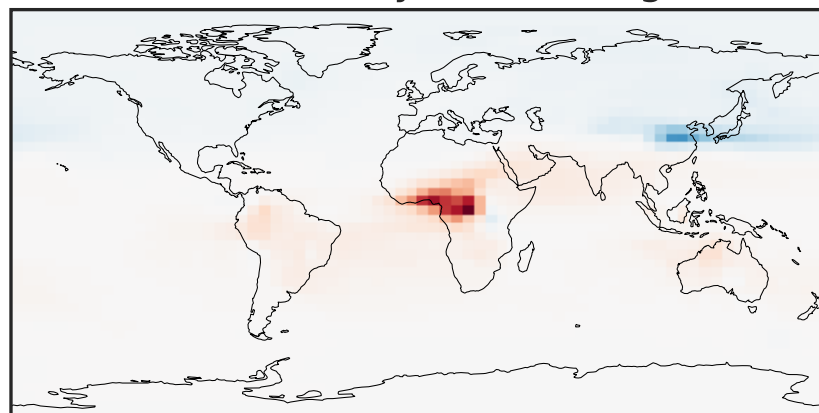
0.003 0.006 0.009  
ppb

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



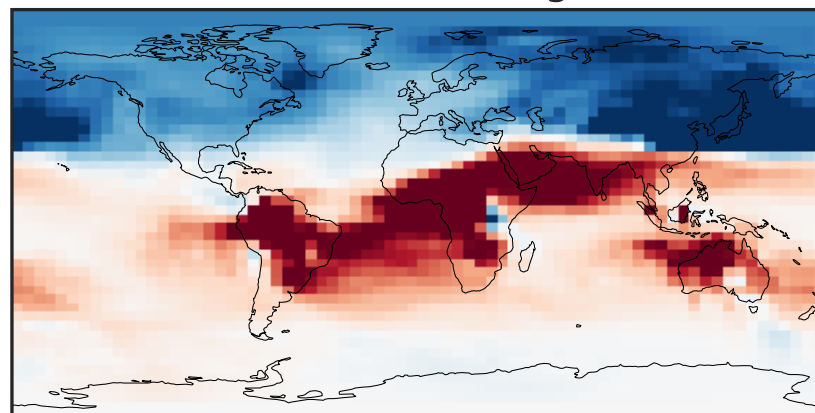
0.003 0.006 0.009  
ppb

Difference  
Dev - Ref, Dynamic Range



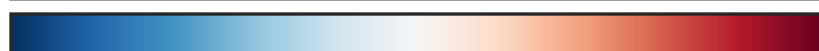
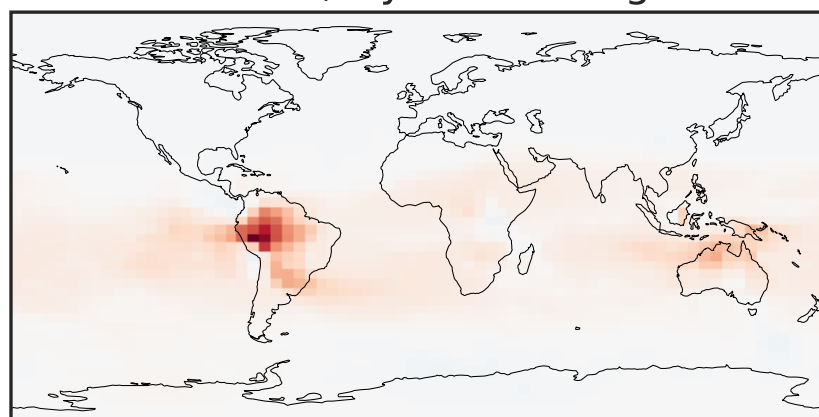
-6 0 6  
ppb  $1e-5$

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



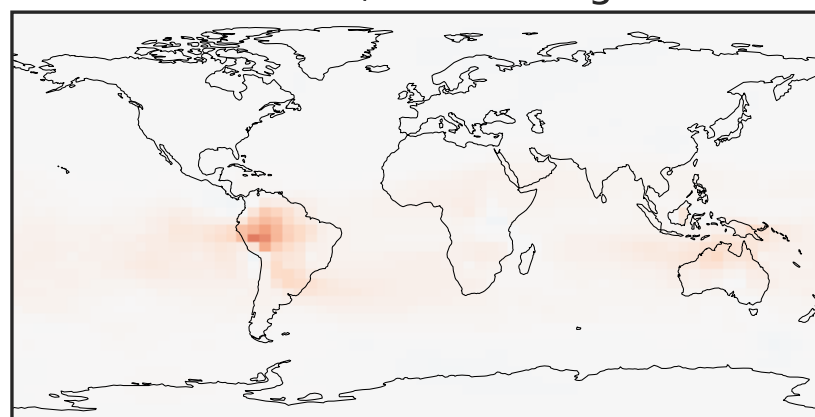
-4 0 4  
ppb  $1e-6$

Ratio  
Dev/Ref, Dynamic Range



0.6973 0.8487 1.000 1.2170 1.4341  
unitless

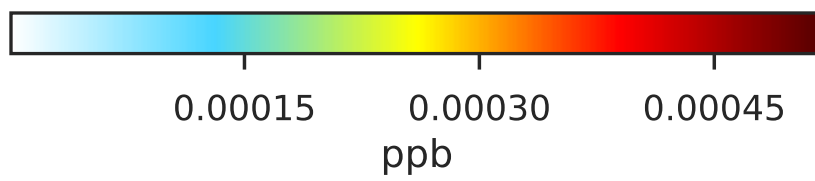
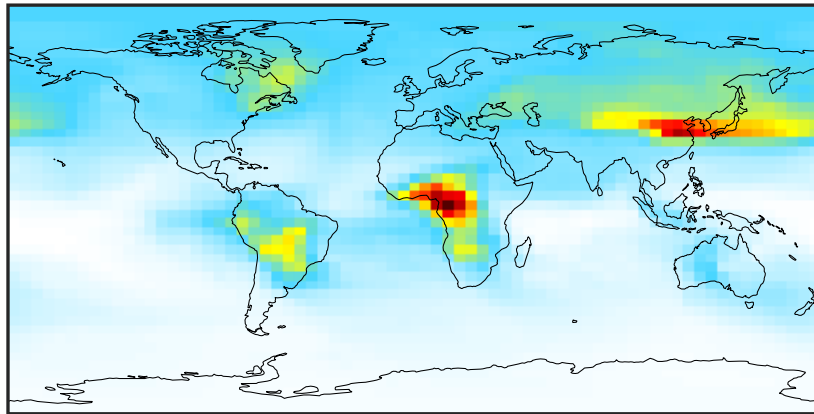
Ratio  
Dev/Ref, Fixed Range



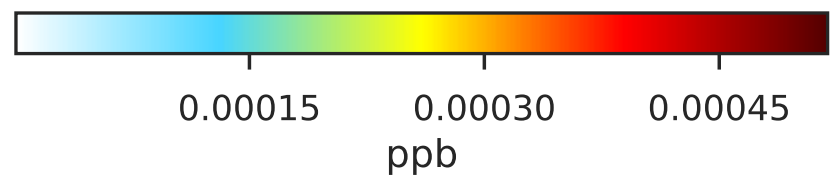
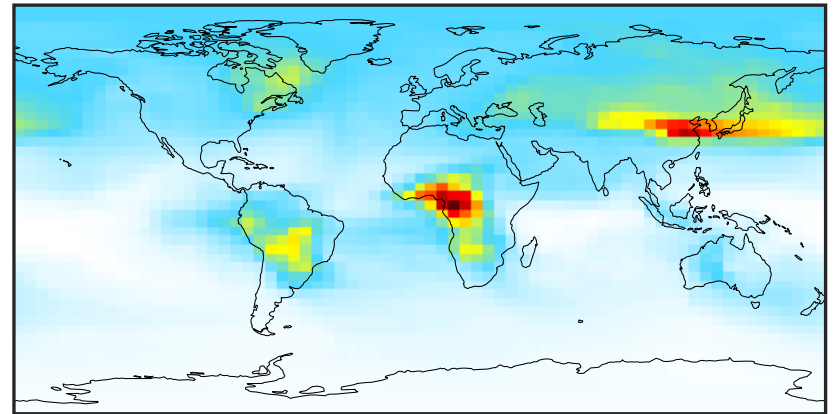
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_ETHN (Jan2019)

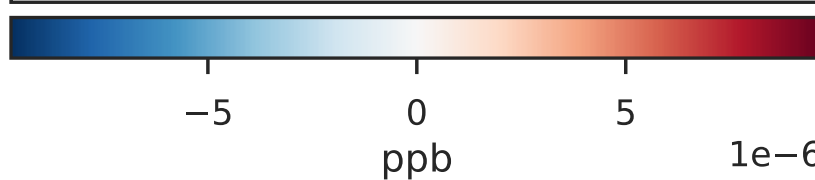
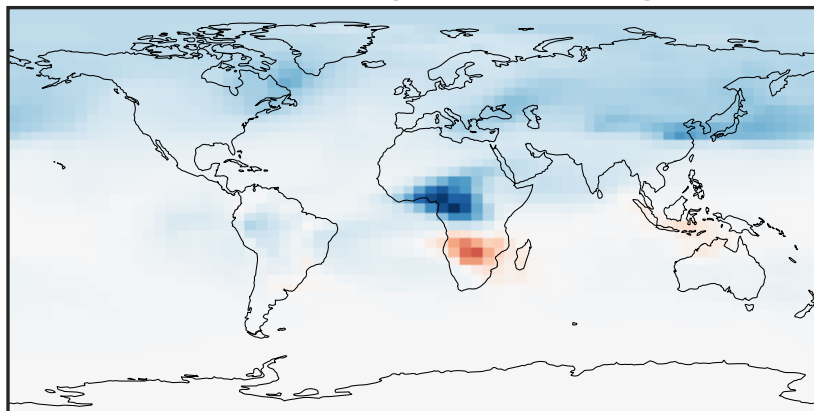
14.2.0-rc.2 (Ref)  
4.0x5.0



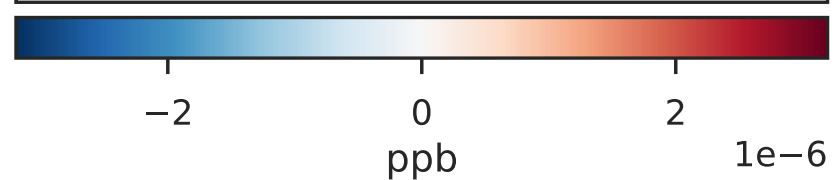
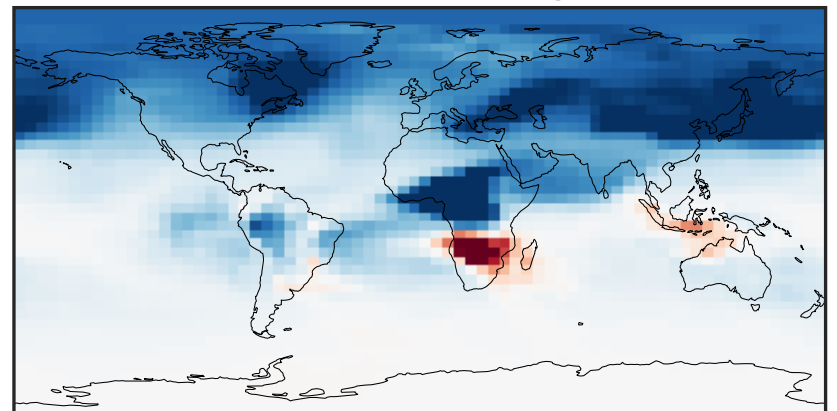
14.3.0-rc.0 (Dev)  
4.0x5.0



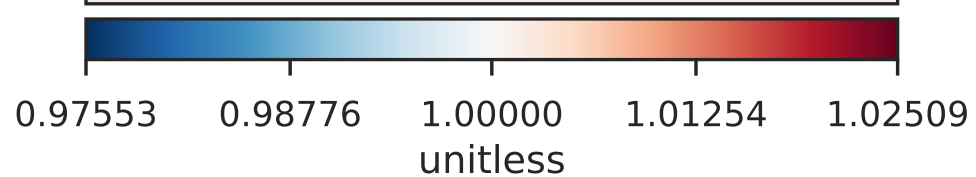
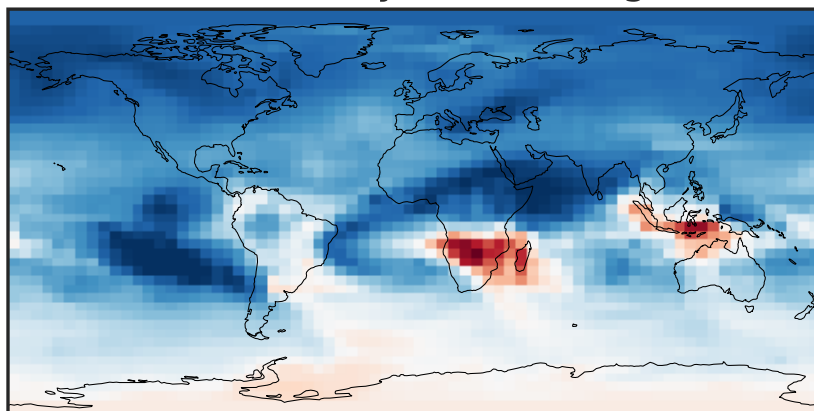
Difference  
Dev - Ref, Dynamic Range



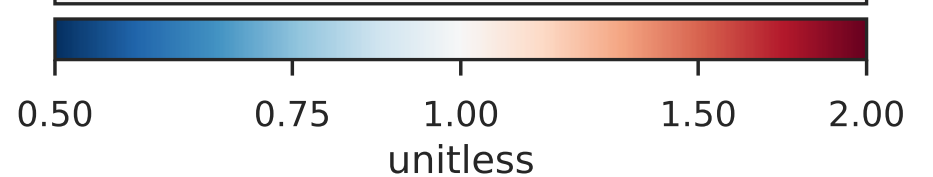
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range



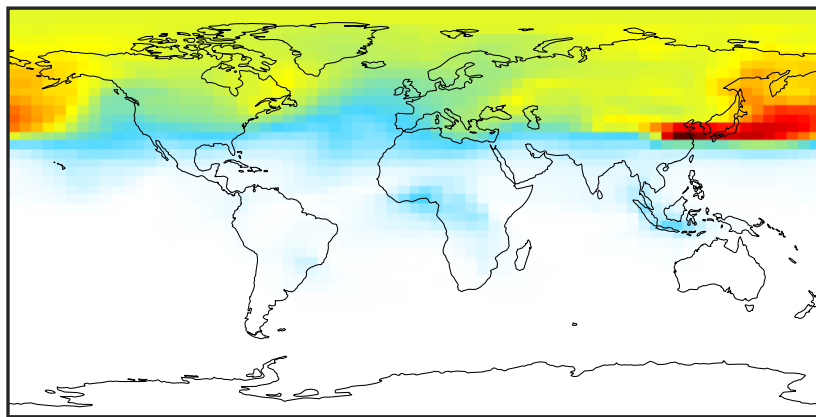
Ratio  
Dev/Ref, Fixed Range





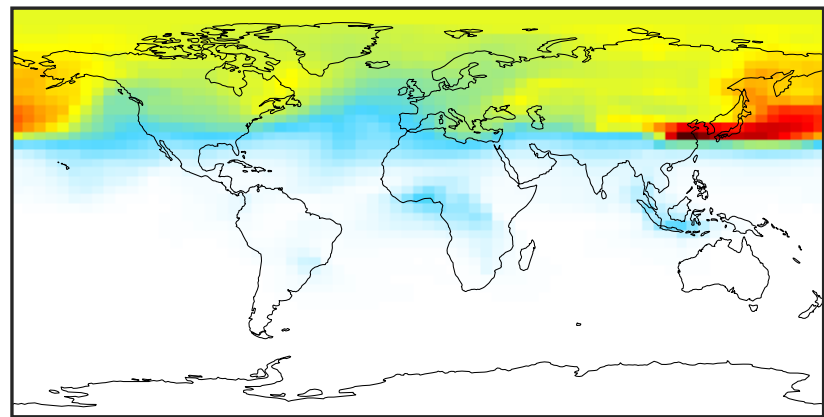
# SpeciesConcVW\_BZPAN (Jan2019)

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



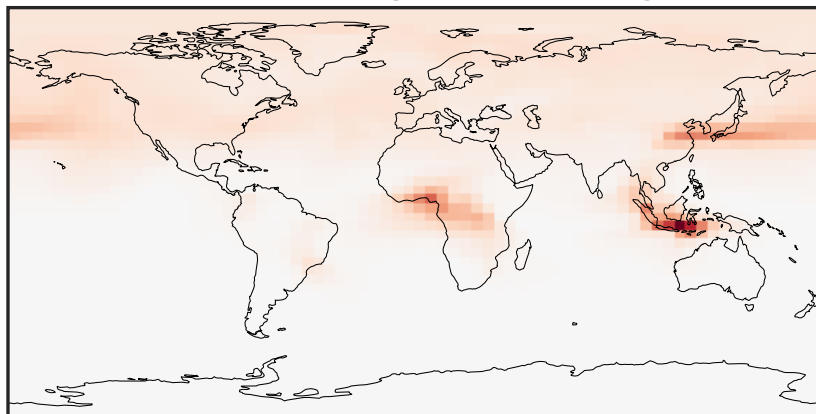
0.0003 0.0006 0.0009  
ppb

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



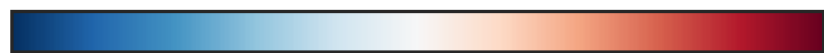
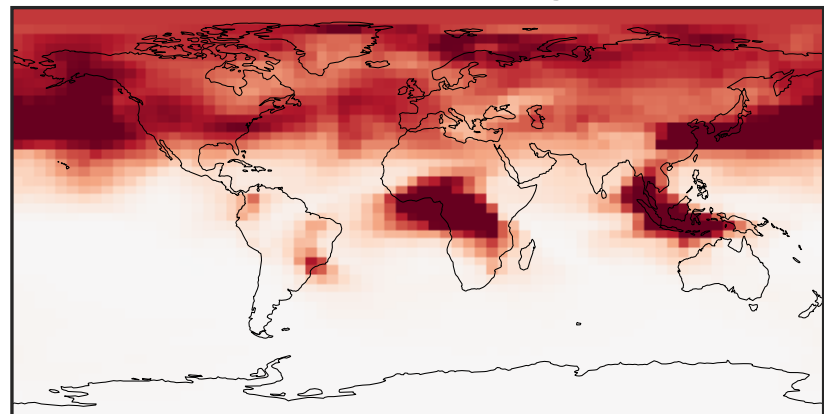
0.0003 0.0006 0.0009  
ppb

Difference  
Dev - Ref, Dynamic Range



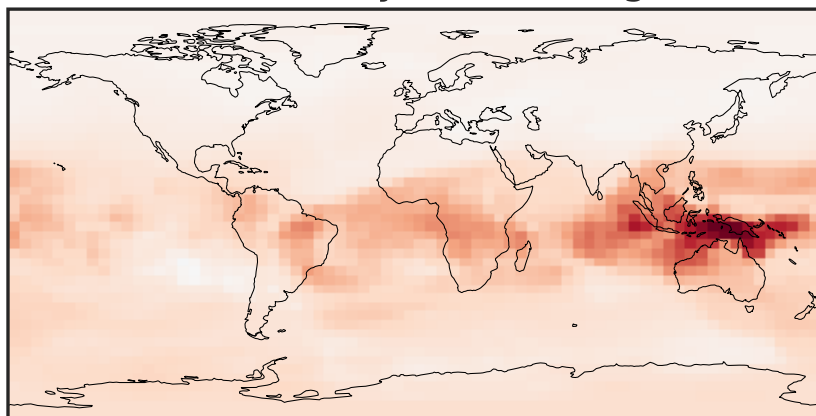
-1 0 1  
ppb  $1e-5$

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



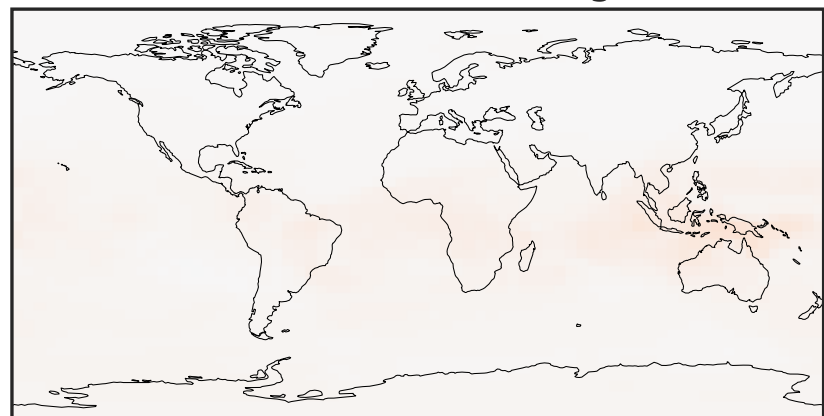
-1.5 0.0 1.5  
ppb  $1e-6$

Ratio  
Dev/Ref, Dynamic Range



0.9053 0.9526 1.0000 1.0523 1.1046  
unitless

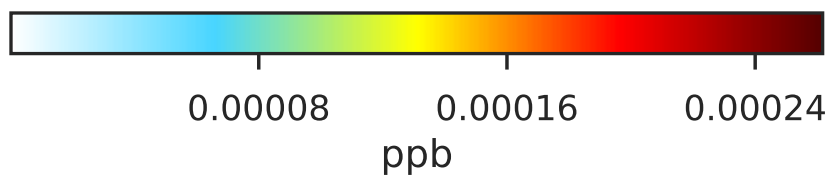
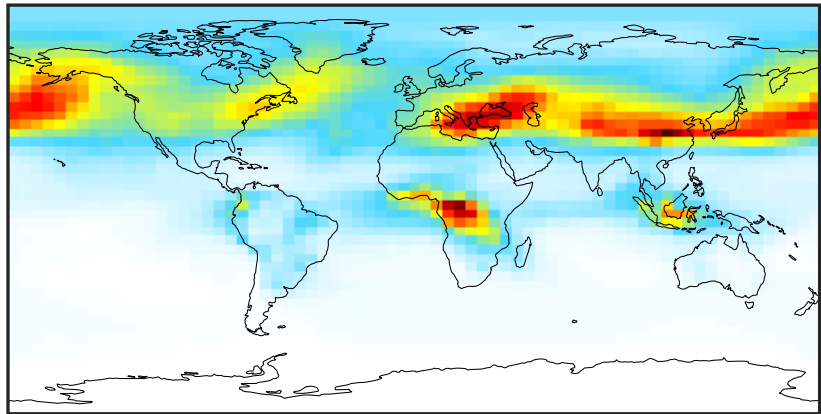
Ratio  
Dev/Ref, Fixed Range



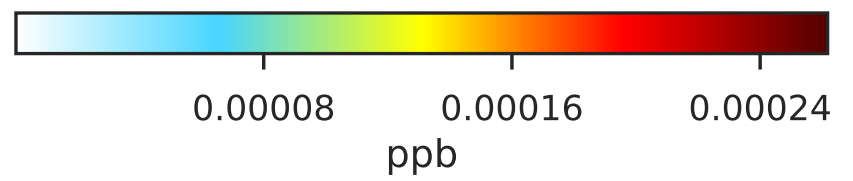
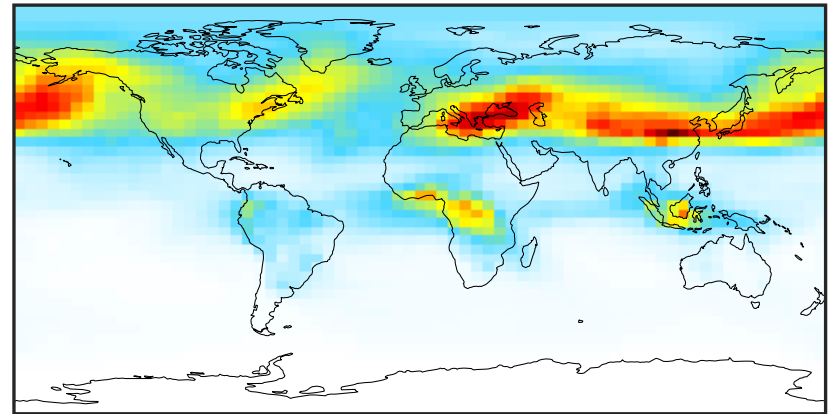
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_NPHEN (Jan2019)

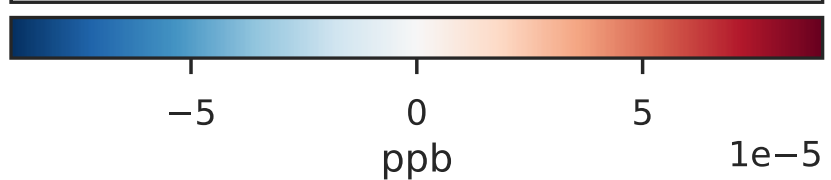
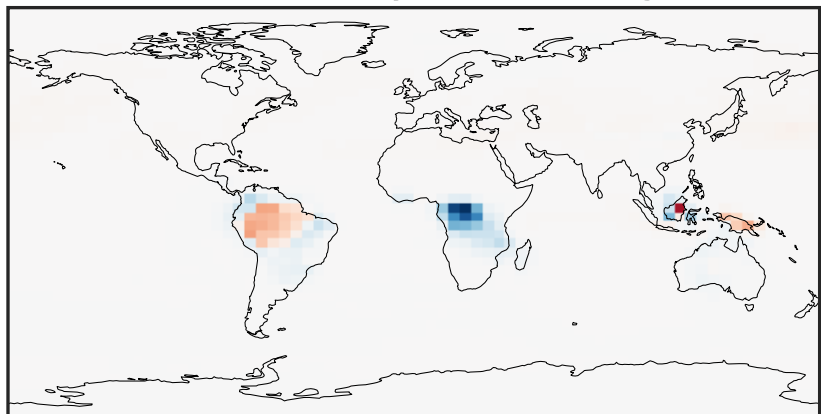
14.2.0-rc.2 (Ref)  
4.0x5.0



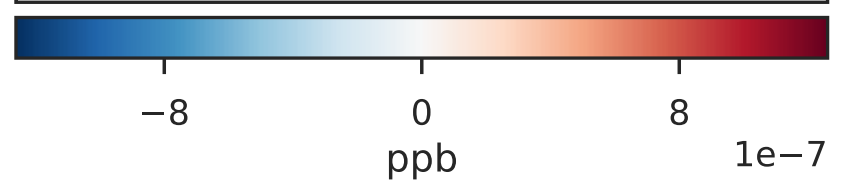
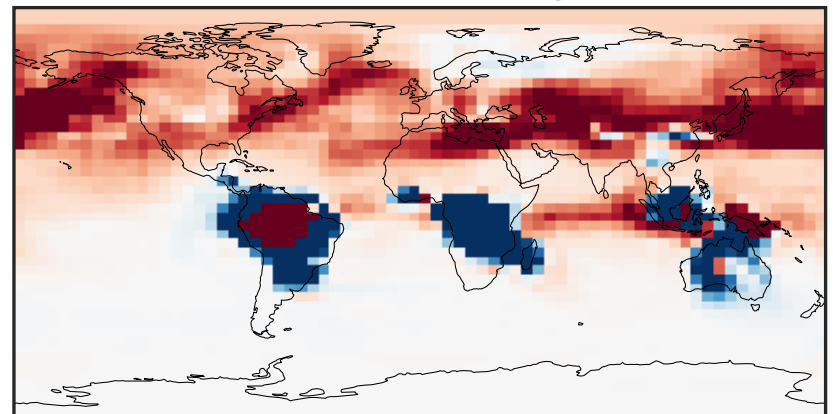
14.3.0-rc.0 (Dev)  
4.0x5.0



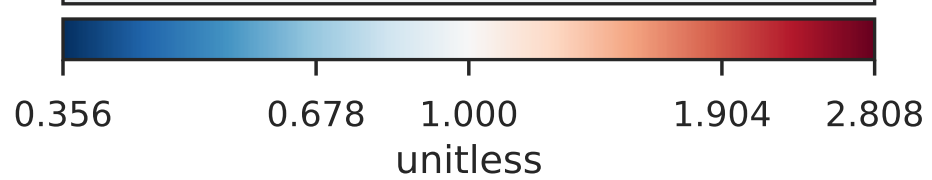
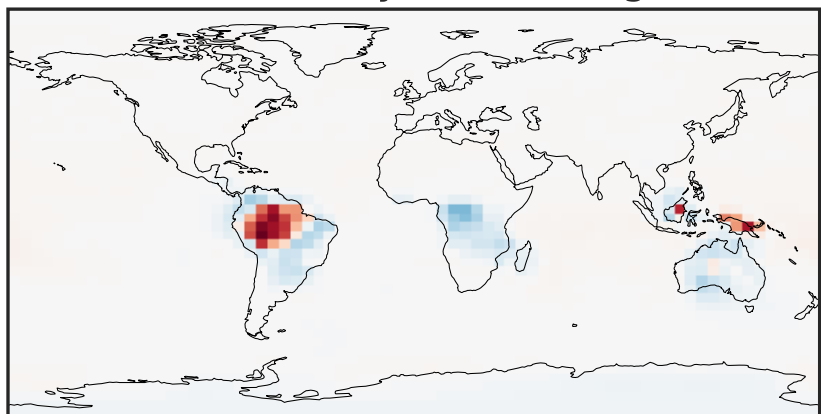
Difference  
Dev - Ref, Dynamic Range



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



Ratio  
Dev/Ref, Dynamic Range



Ratio  
Dev/Ref, Fixed Range

