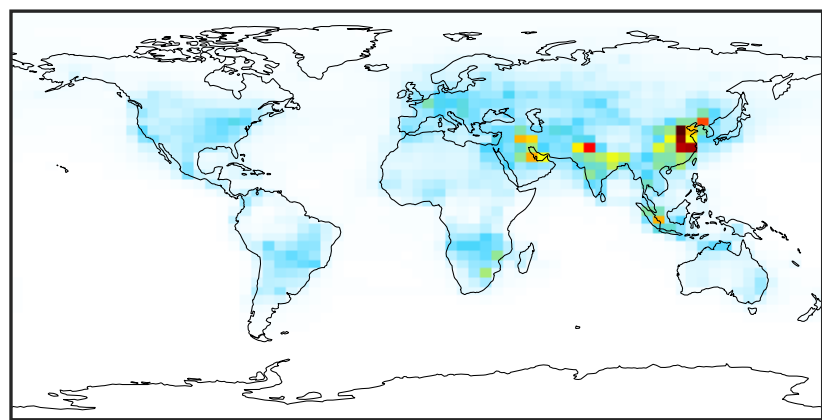


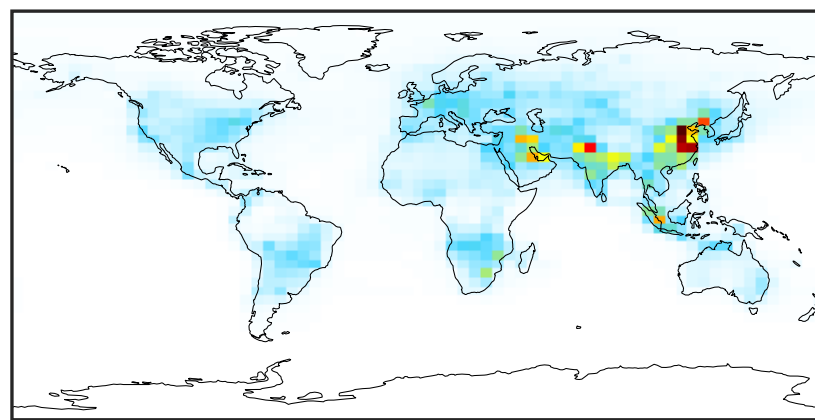
# SpeciesConcVV\_NOy (Oct2019)

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



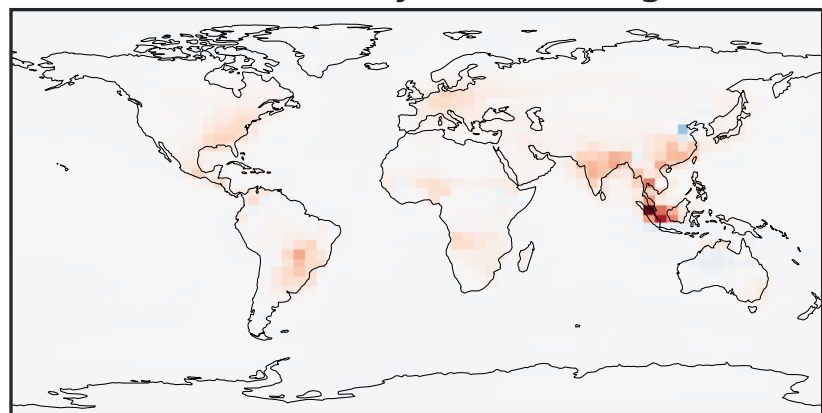
0.02 3.78 7.55 11.31 15.07  
ppb

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



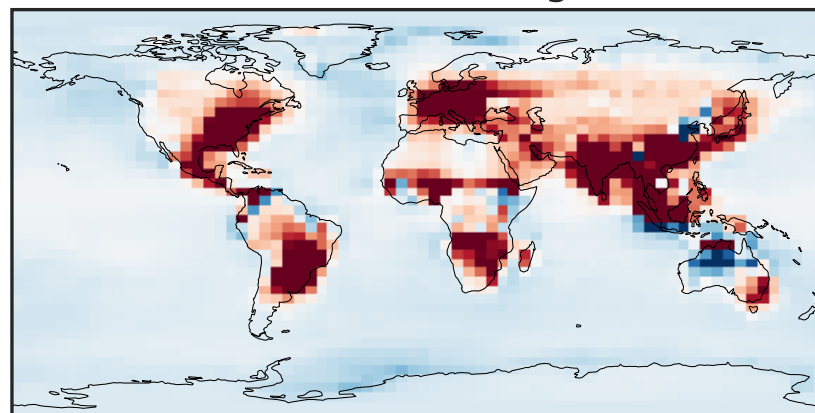
0.02 3.78 7.55 11.31 15.07  
ppb

Difference  
Dev - Ref, Dynamic Range



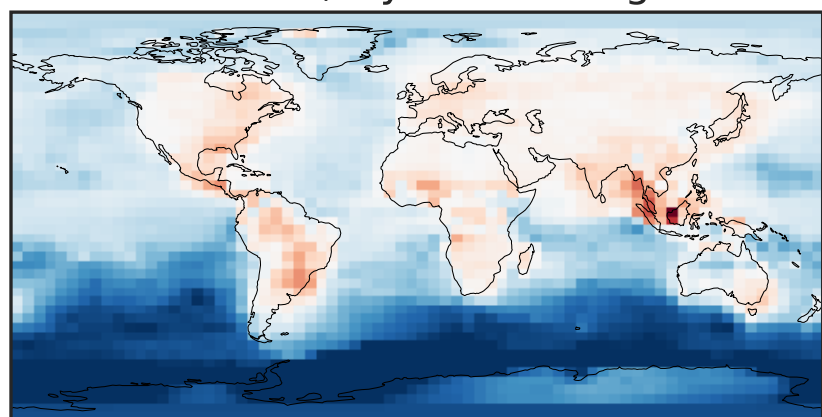
-0.1455 -0.0727 0.0000 0.0727 0.1455  
ppb

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



-0.005 0.000 0.005  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.95617 0.97809 1.00000 1.02292 1.04584  
unitless

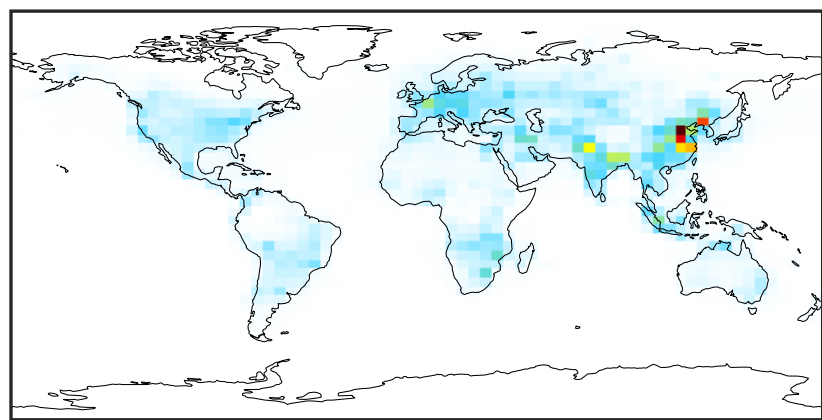
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

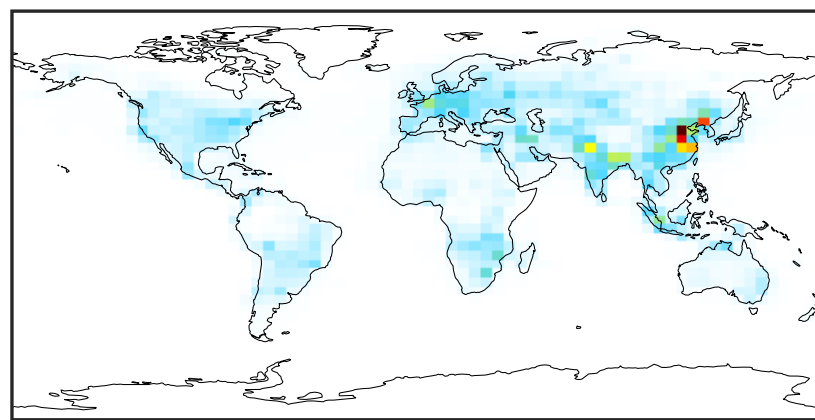
# SpeciesConcVV\_NOx (Oct2019)

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



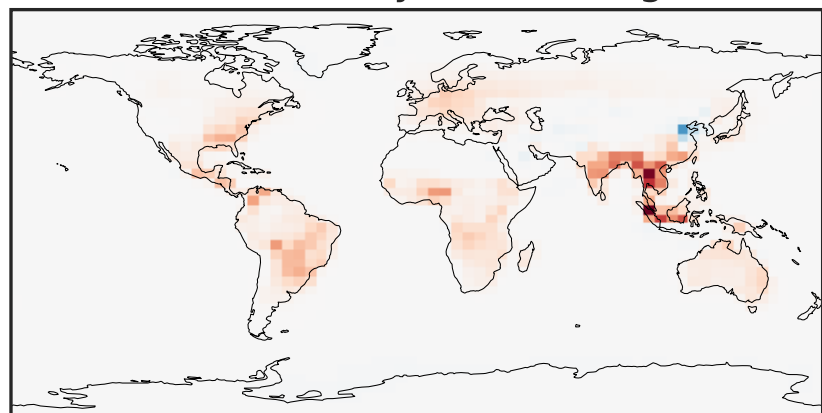
0.00 2.97 5.93 8.90 11.86  
ppb

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



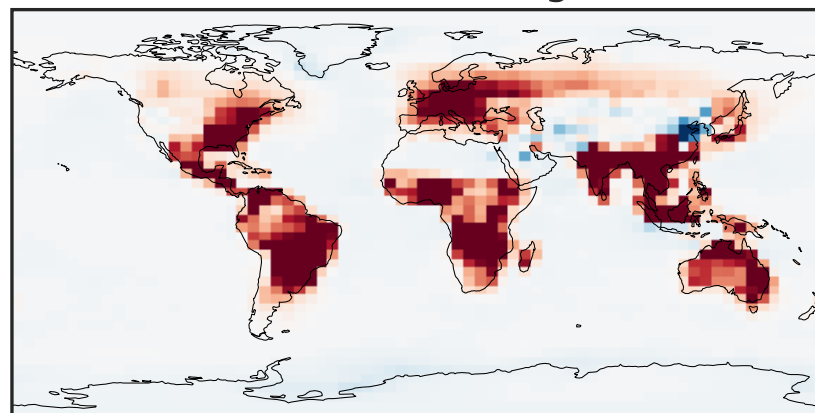
0.00 2.97 5.93 8.90 11.86  
ppb

Difference  
Dev - Ref, Dynamic Range



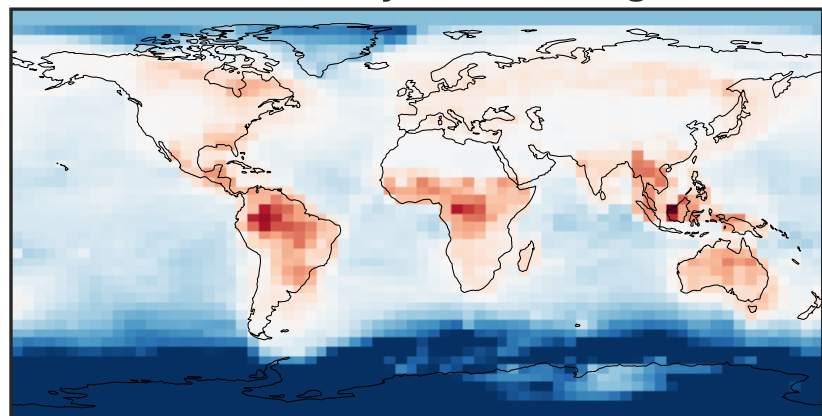
-0.1528 -0.0764 0.0000 0.0764 0.1528  
ppb

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



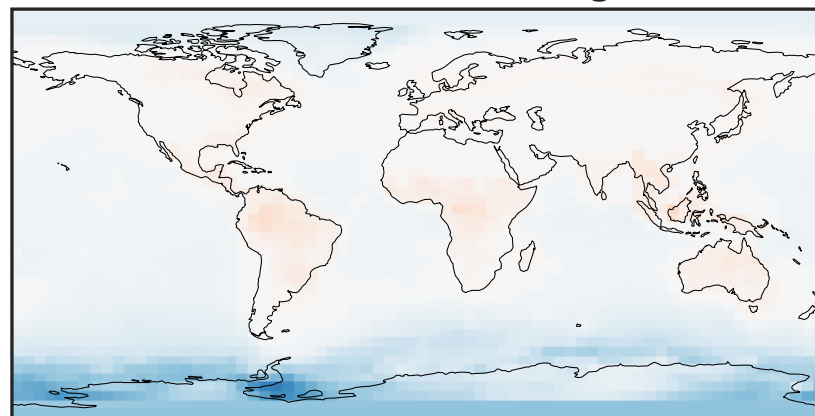
-0.01 0.00 0.01  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.8771 0.9386 1.0000 1.0701 1.1401  
unitless

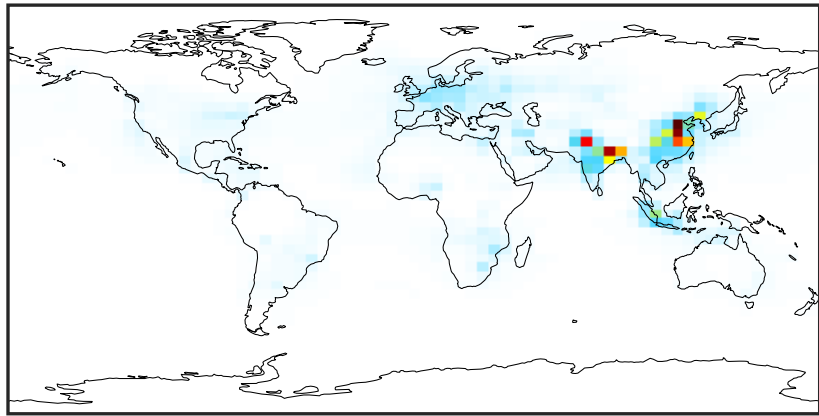
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

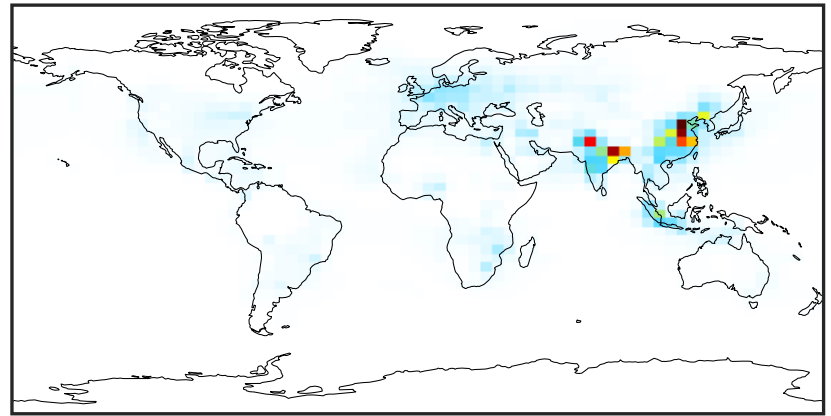
# SpeciesConcVV\_HNO2 (Oct2019)

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



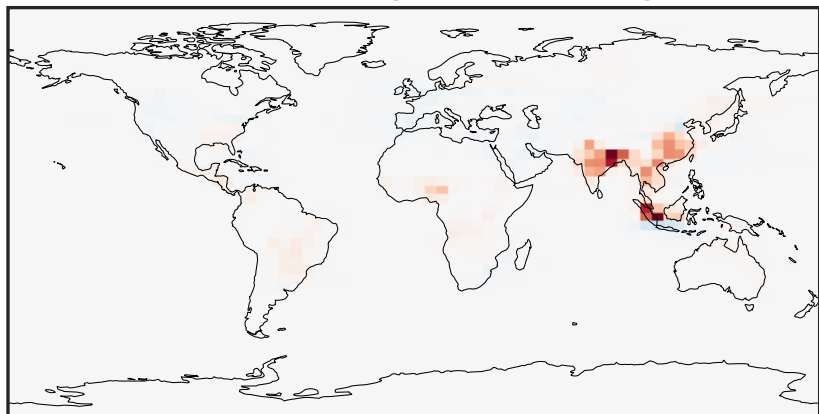
0.000 0.045 0.090 0.135 0.180  
ppb

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



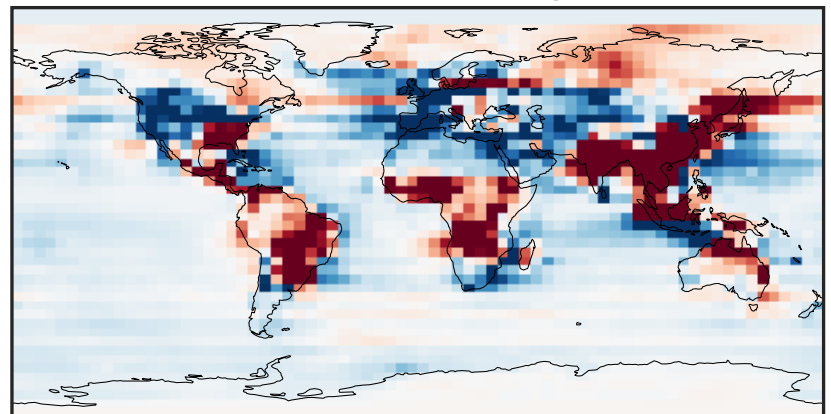
0.000 0.045 0.090 0.135 0.180  
ppb

Difference  
Dev - Ref, Dynamic Range



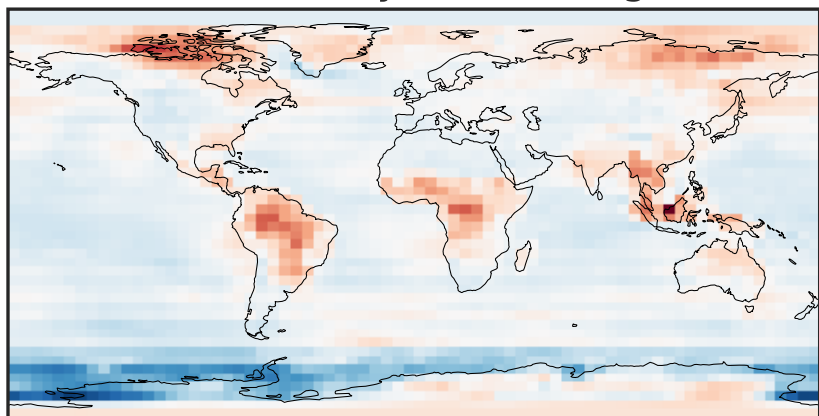
-0.0015 0.0000 0.0015  
ppb

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



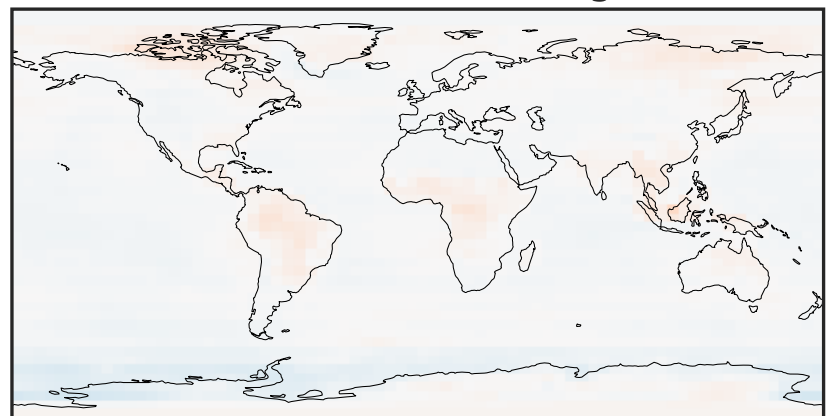
-2.5 0.0 2.5  
ppb 1e-5

Ratio  
Dev/Ref, Dynamic Range



0.8733 0.9367 1.0000 1.0725 1.1450  
unitless

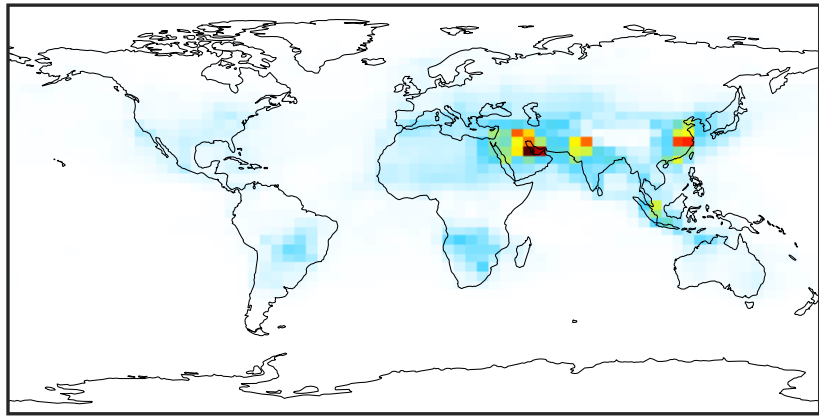
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

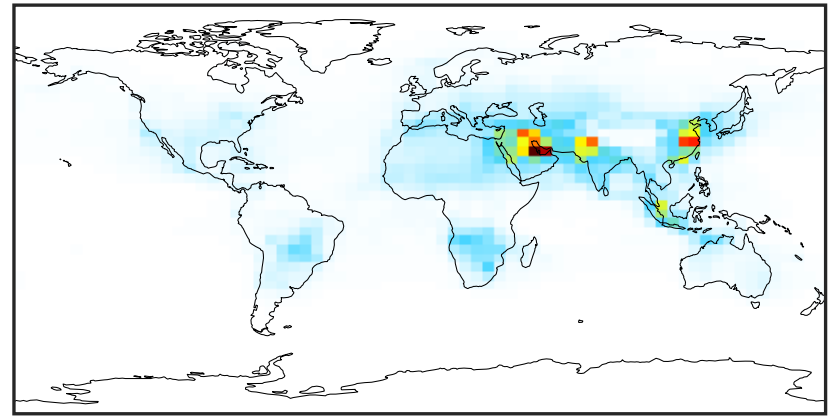
# SpeciesConcVV\_HNO3 (Oct2019)

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



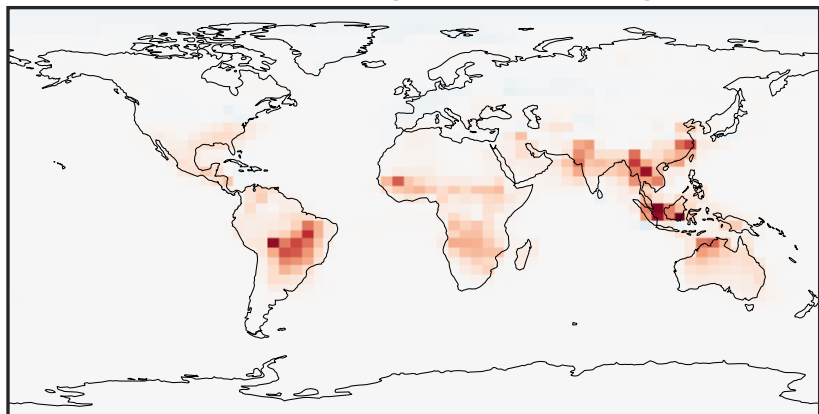
0.000 1.684 3.367 5.051 6.735  
ppb

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



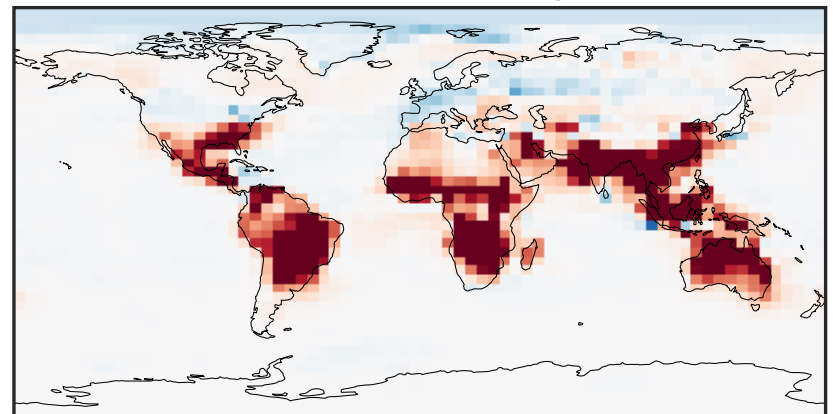
0.000 1.684 3.367 5.051 6.735  
ppb

Difference  
Dev - Ref, Dynamic Range



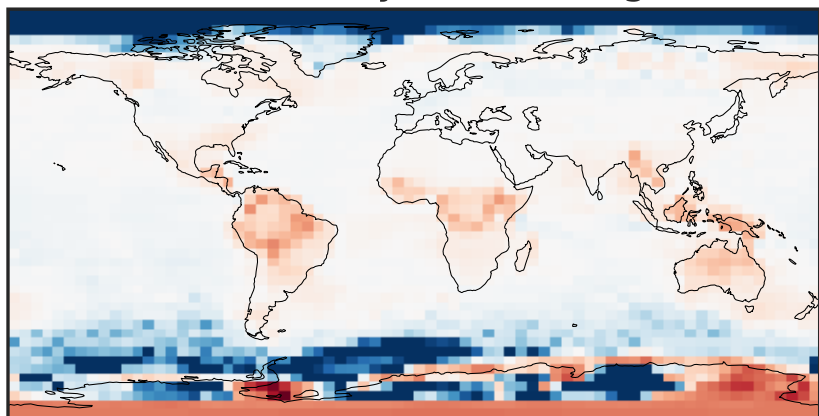
-0.025 0.000 0.025  
ppb

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



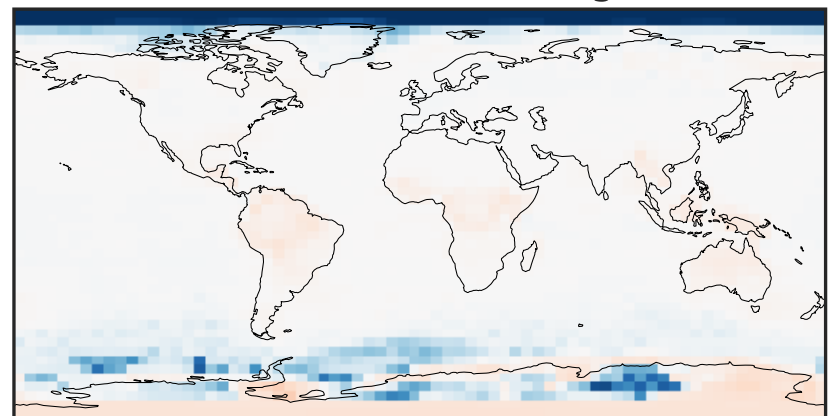
-0.004 0.000 0.004  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.8416 0.9208 1.0000 1.0941 1.1882  
unitless

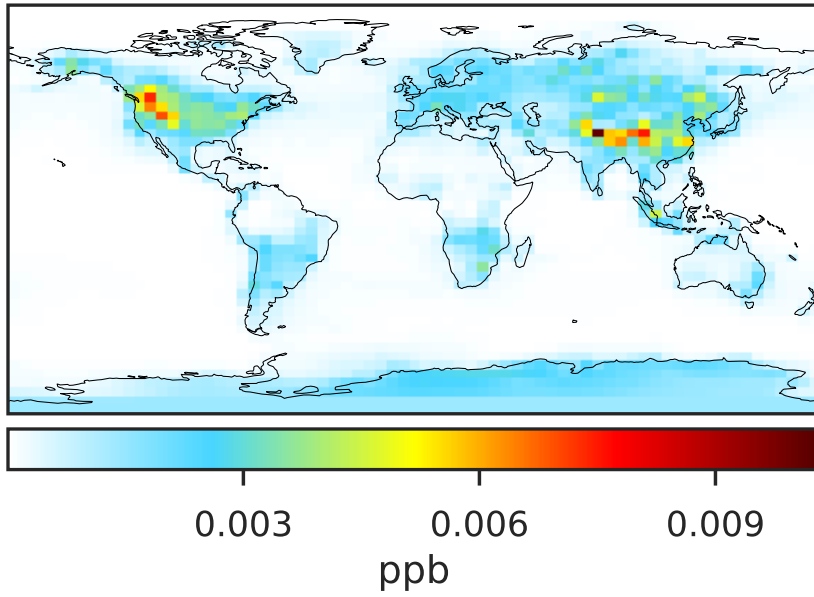
Ratio  
Dev/Ref, Fixed Range



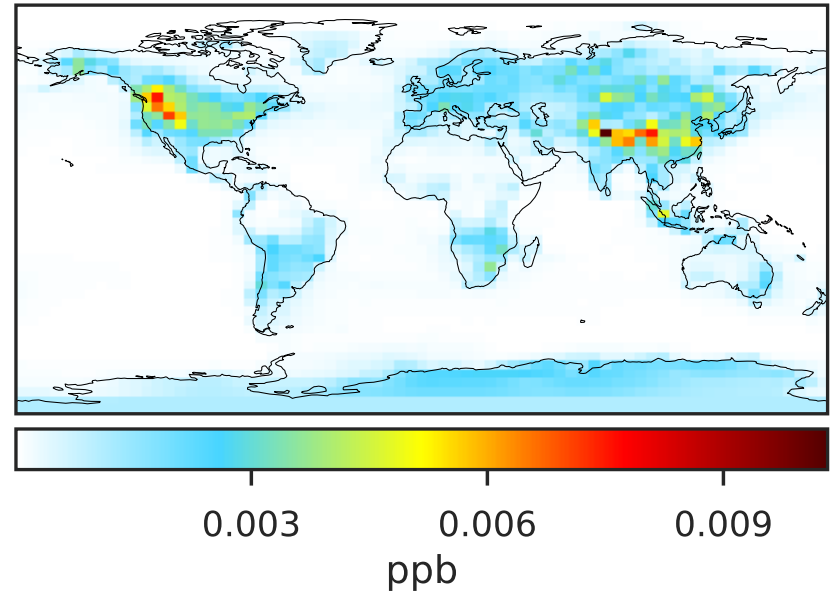
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_HNO4 (Oct2019)

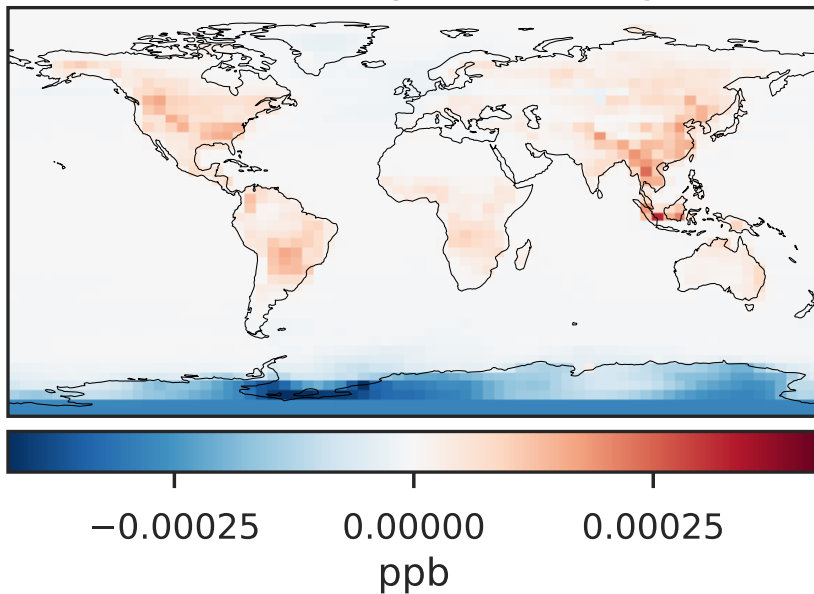
14.2.0-rc.2 (Ref)  
4.0x5.0



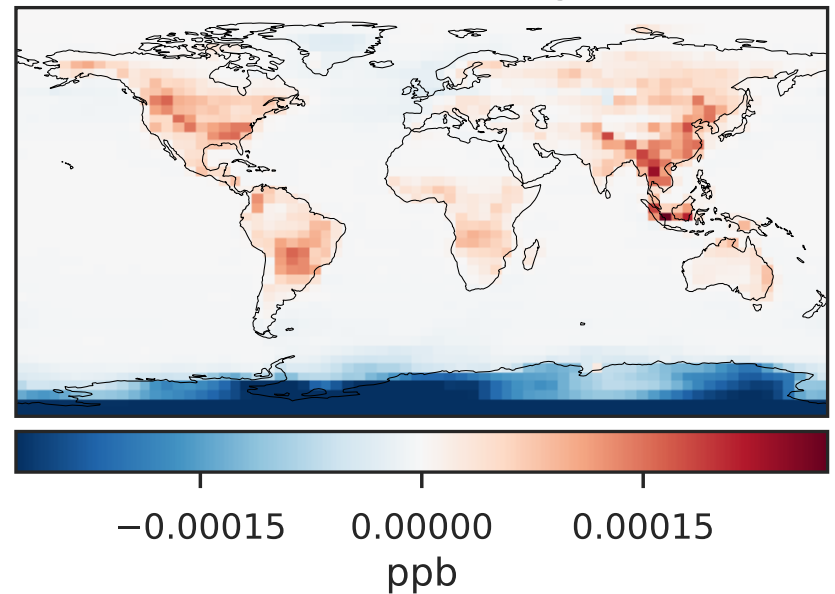
14.3.0-rc.0 (Dev)  
4.0x5.0



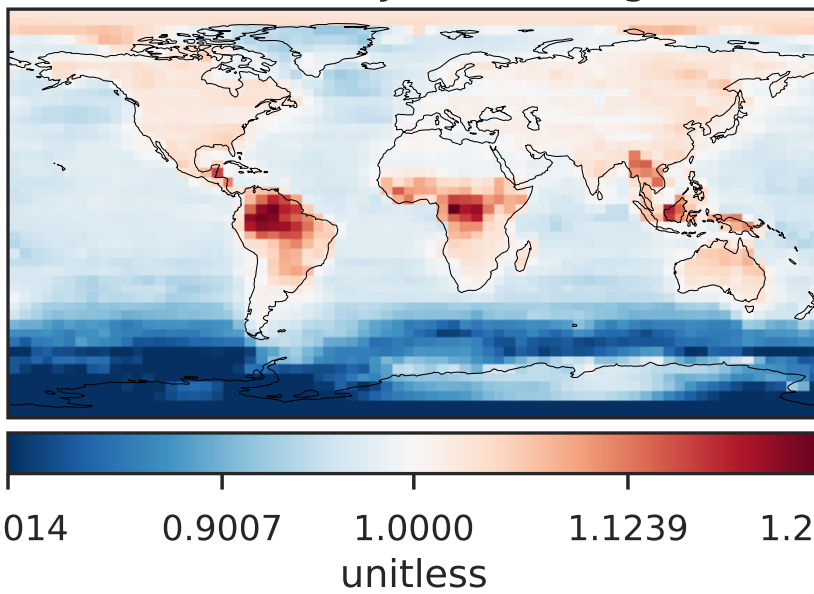
Difference  
Dev - Ref, Dynamic Range



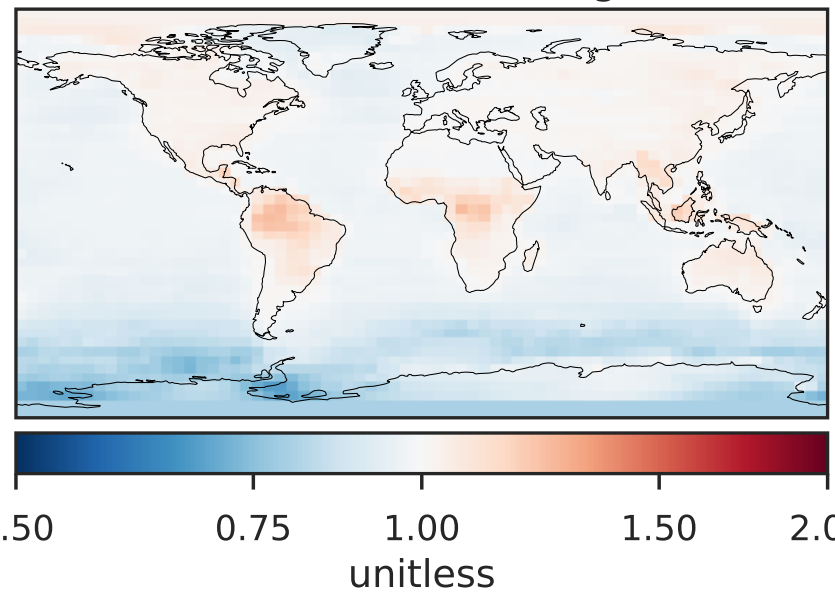
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

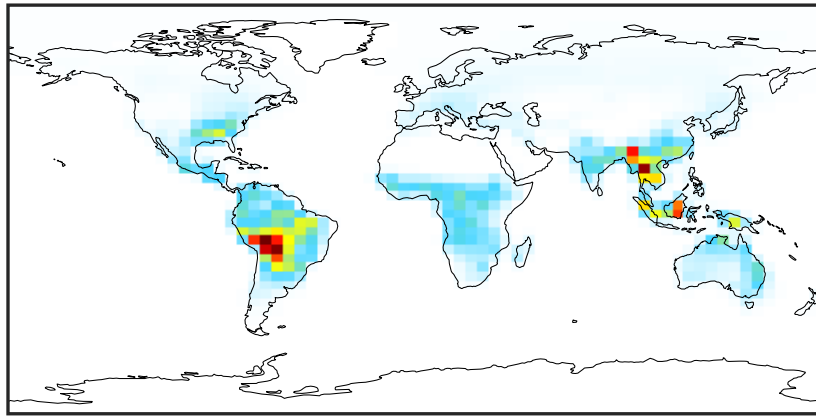


Ratio  
Dev/Ref, Fixed Range



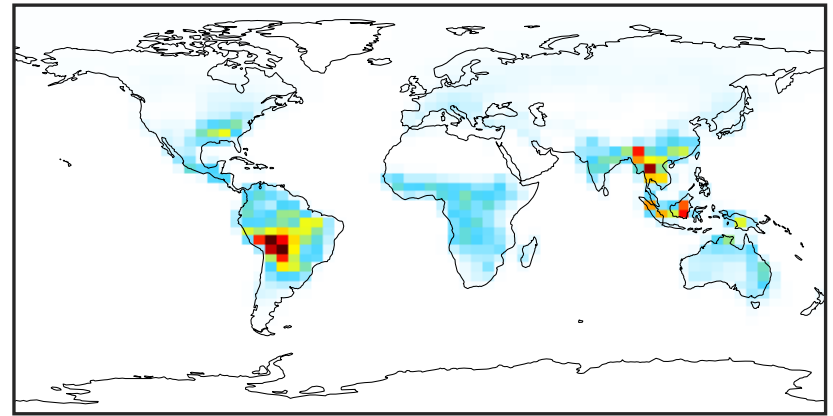
# SpeciesConcVV\_MPAN (Oct2019)

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



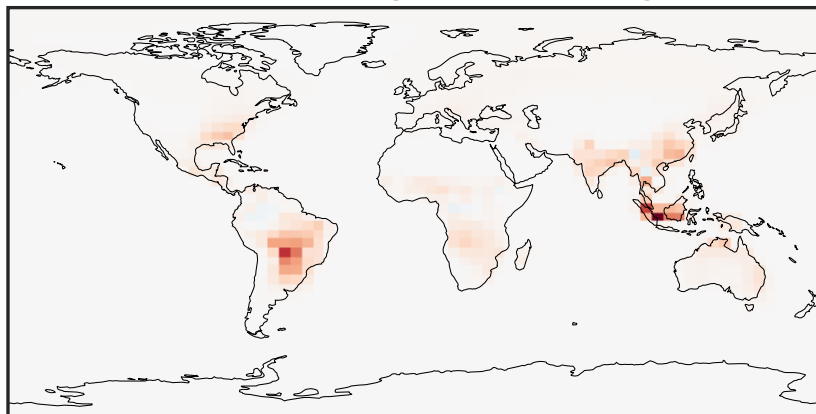
0.000 0.015 0.030  
ppb

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



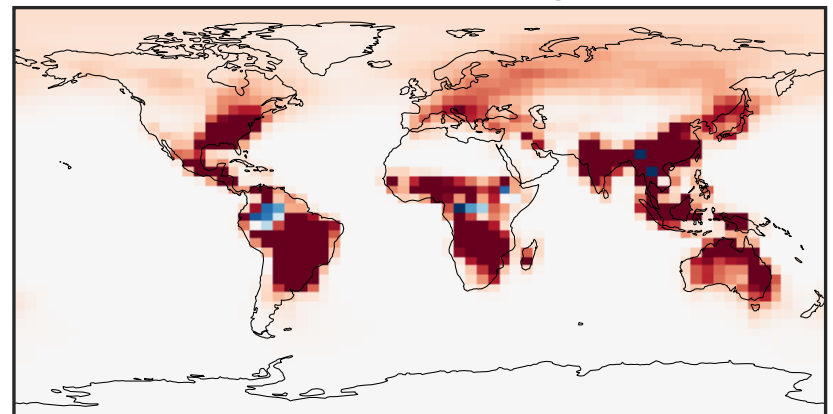
0.000 0.015 0.030  
ppb

Difference  
Dev - Ref, Dynamic Range



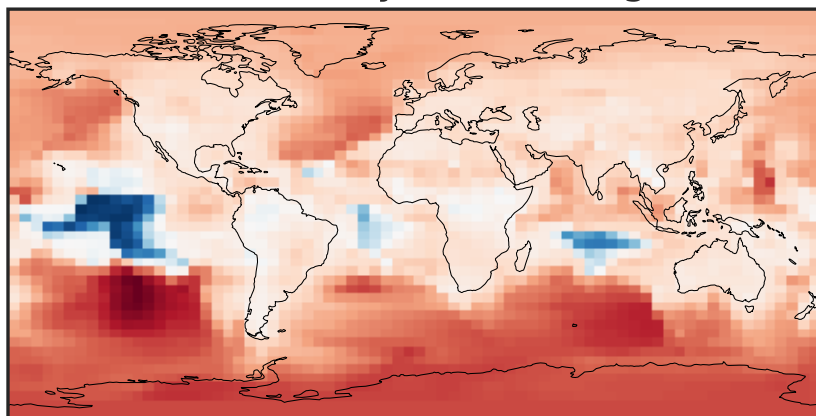
-0.002 0.000 0.002  
ppb

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



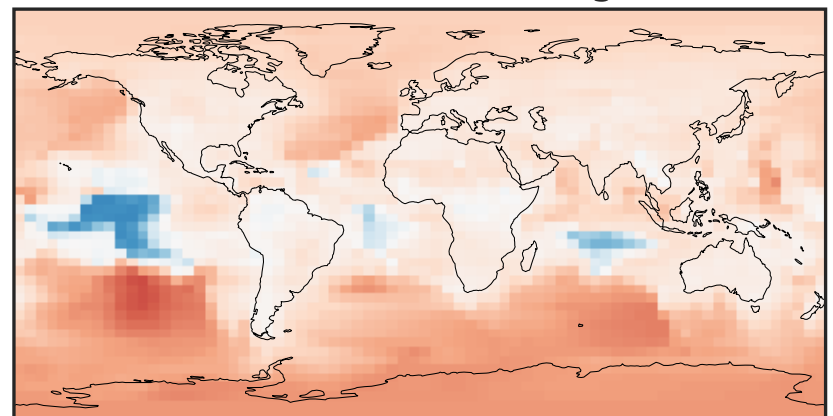
-0.00015 0.00000 0.00015  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.6359 0.8180 1.0000 1.2862 1.5725  
unitless

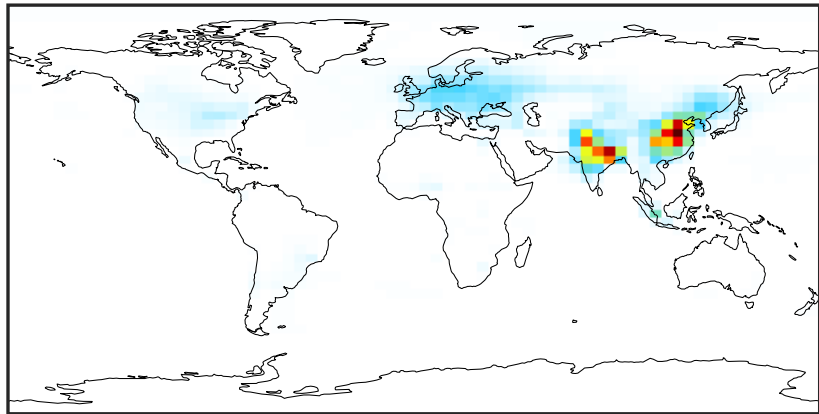
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

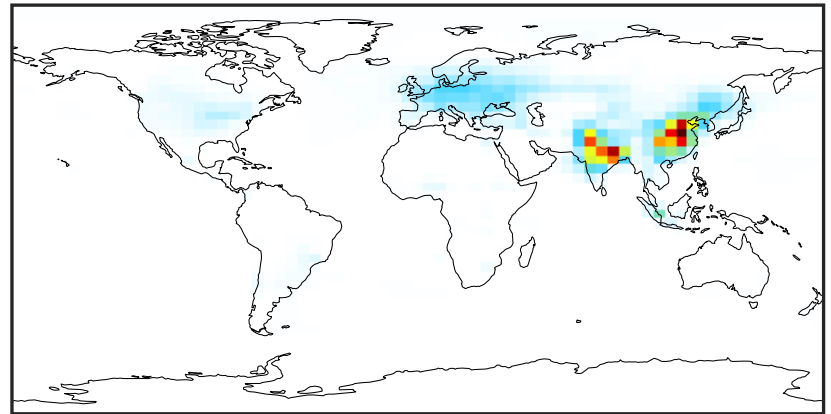
# SpeciesConcVV\_NIT (Oct2019)

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



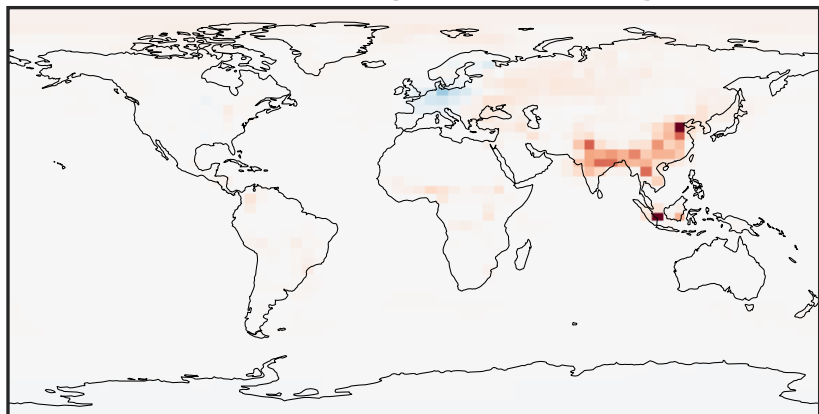
0.000 2.025 4.049 6.074 8.098  
ppb

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



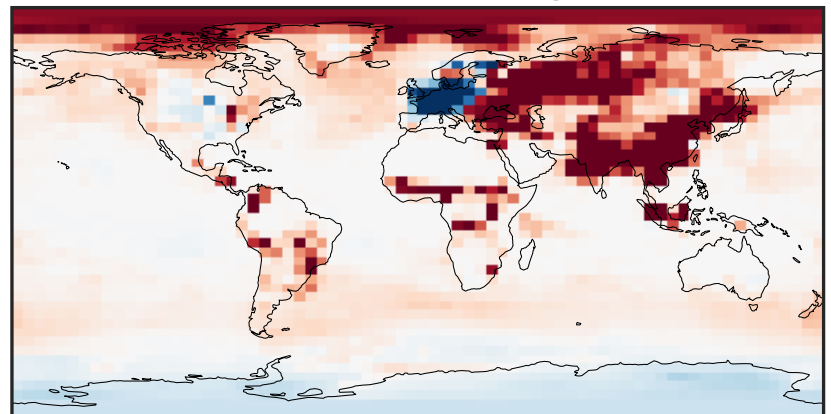
0.000 2.025 4.049 6.074 8.098  
ppb

Difference  
Dev - Ref, Dynamic Range



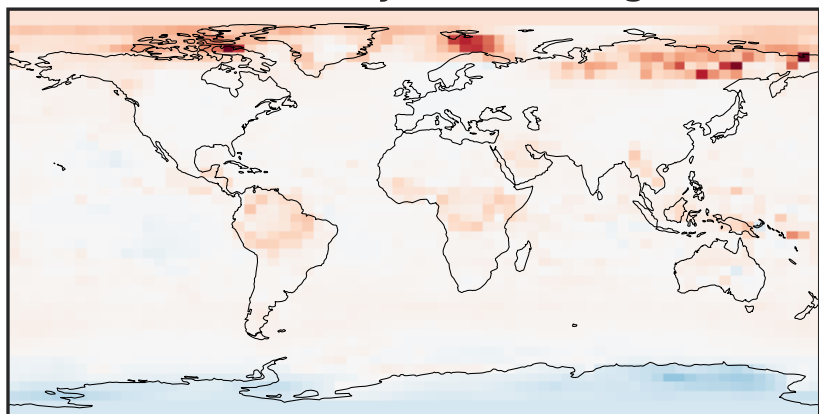
-0.0610 -0.0305 0.0000 0.0305 0.0610  
ppb

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



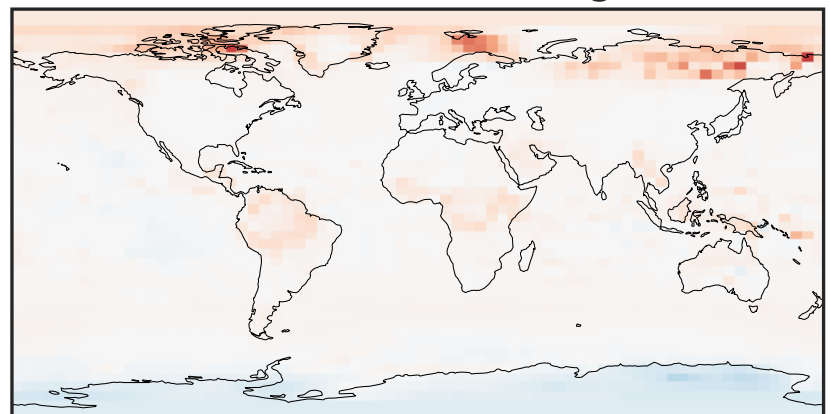
-0.002 0.000 0.002  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.616 0.808 1.000 1.312 1.624  
unitless

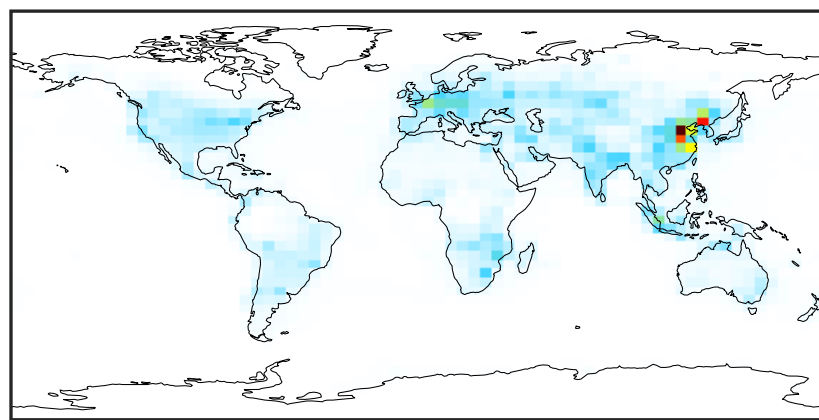
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

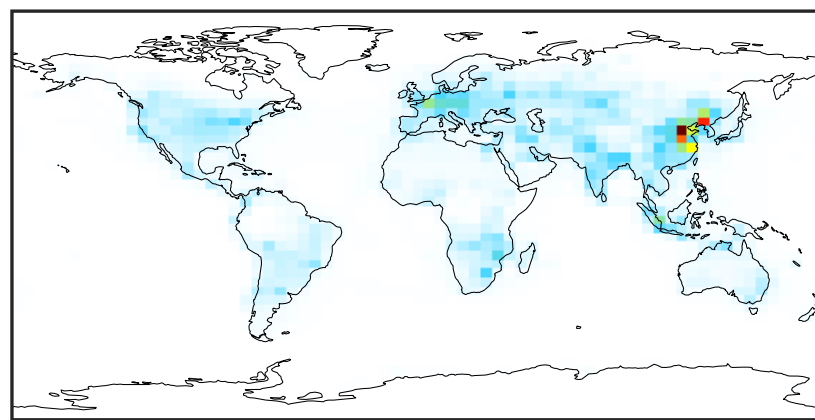
# SpeciesConcVV\_NO (Oct2019)

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



0.0000 0.2285 0.4569 0.6853 0.9138  
ppb

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



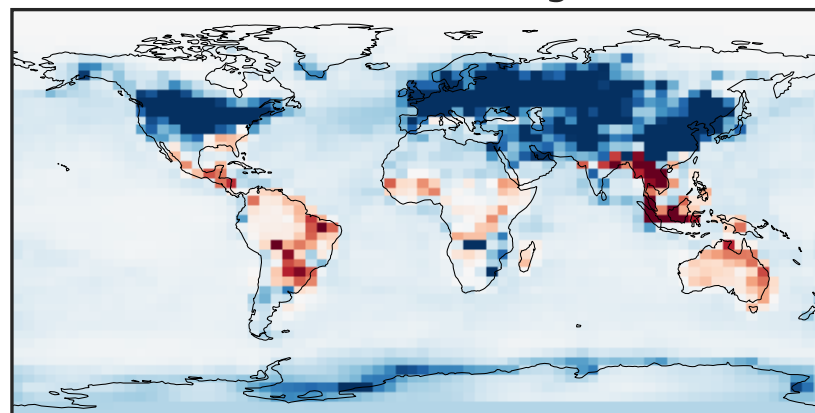
0.0000 0.2285 0.4569 0.6853 0.9138  
ppb

Difference  
Dev - Ref, Dynamic Range



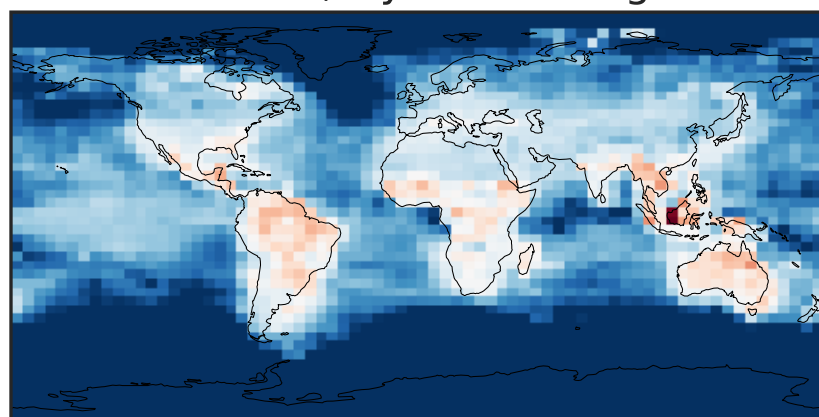
-0.015 0.000 0.015  
ppb

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



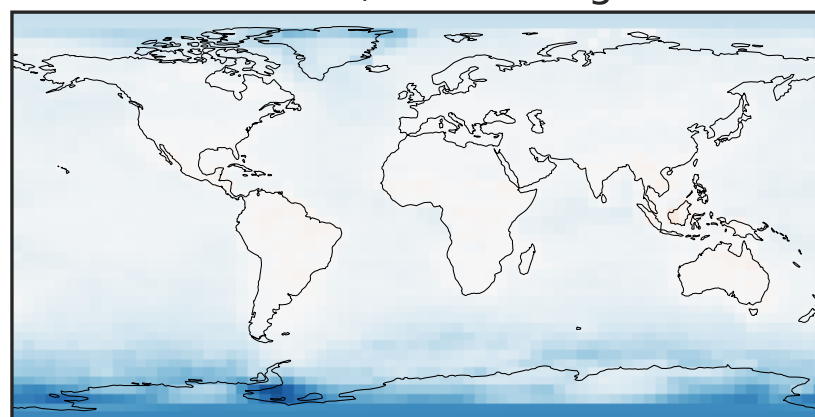
-0.0006 0.0000 0.0006  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.9364 0.9682 1.0000 1.0340 1.0679  
unitless

Ratio  
Dev/Ref, Fixed Range

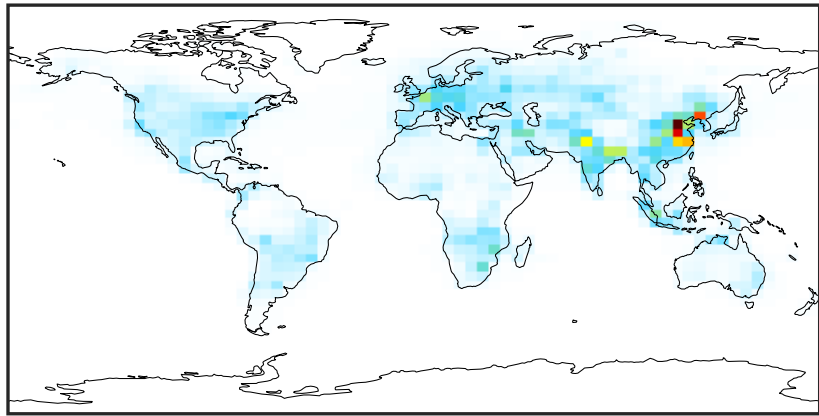


0.50 0.75 1.00 1.50 2.00  
unitless



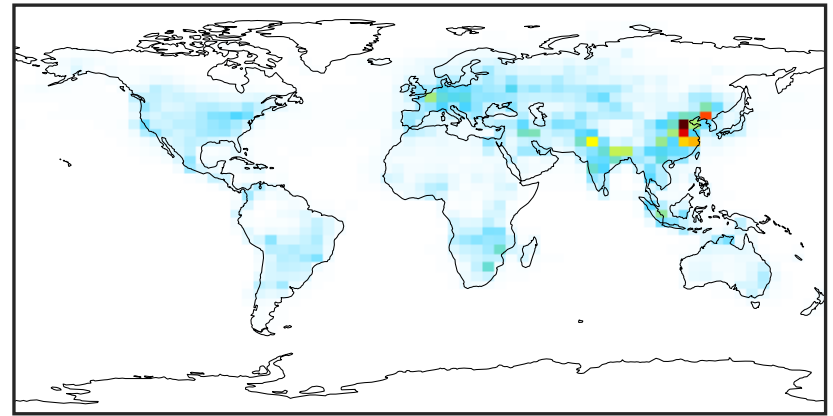
# SpeciesConcVW\_NO2 (Oct2019)

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



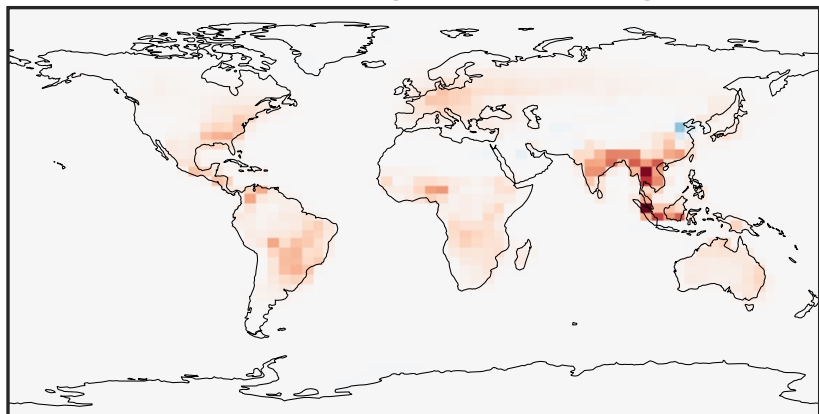
0.00 2.69 5.38 8.07 10.76  
ppb

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



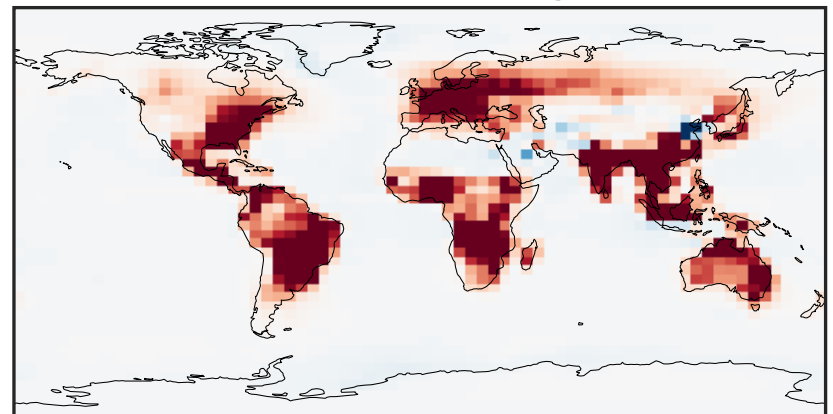
0.00 2.69 5.38 8.07 10.76  
ppb

Difference  
Dev - Ref, Dynamic Range



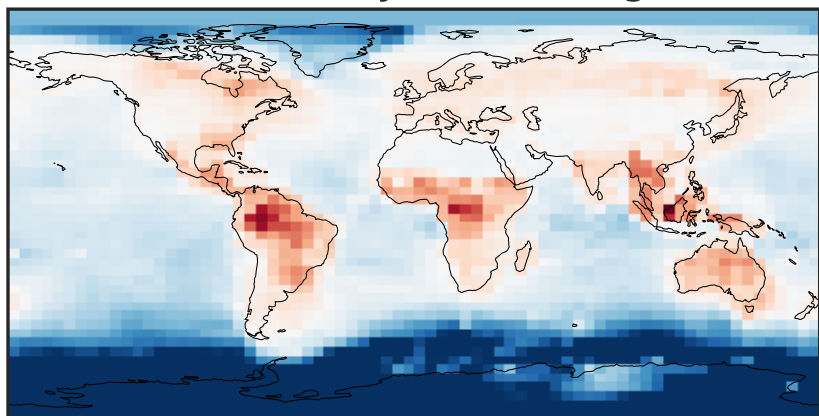
-0.1478 -0.0739 0.0000 0.0739 0.1478  
ppb

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



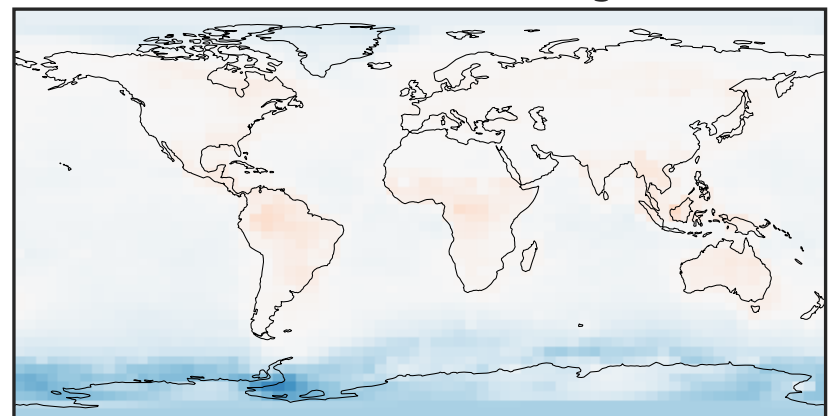
-0.01 0.00 0.01  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.8774 0.9387 1.0000 1.0698 1.1397  
unitless

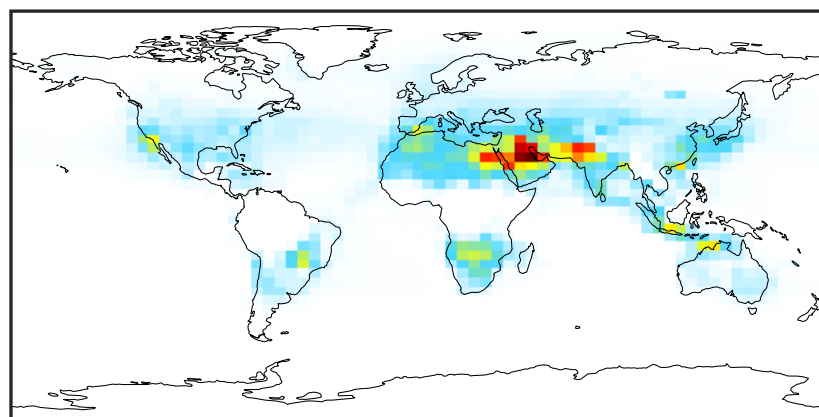
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

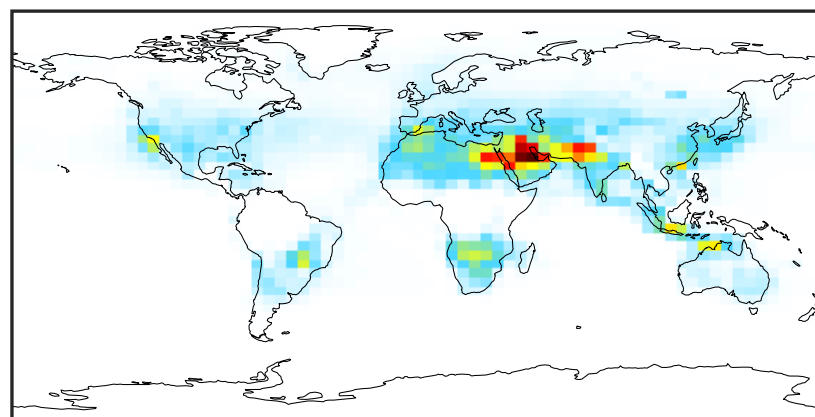
# SpeciesConcVW\_NO3 (Oct2019)

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



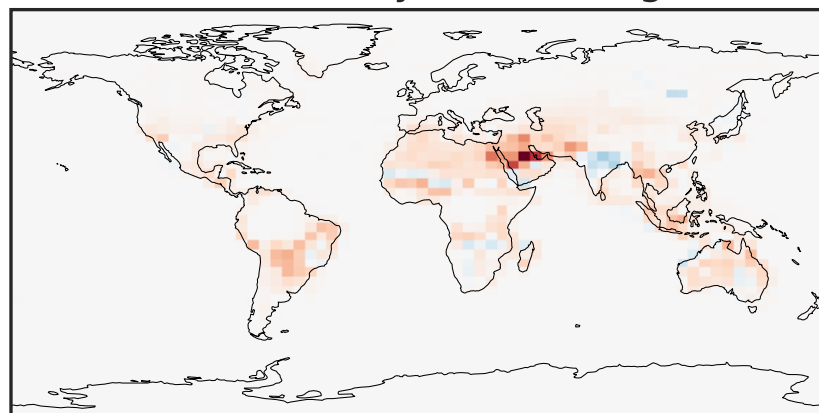
0.015 0.030 0.045  
ppb

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



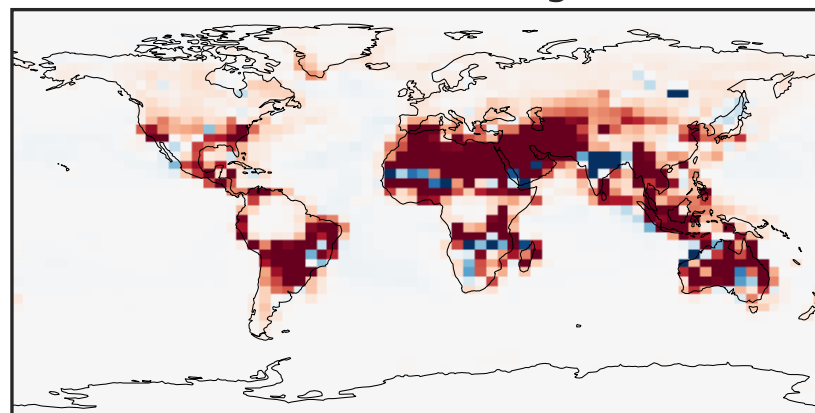
0.015 0.030 0.045  
ppb

Difference  
Dev - Ref, Dynamic Range



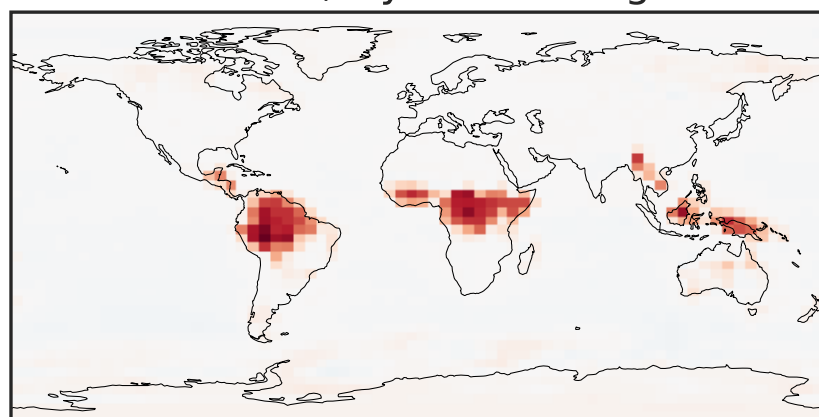
-0.001 0.000 0.001  
ppb

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



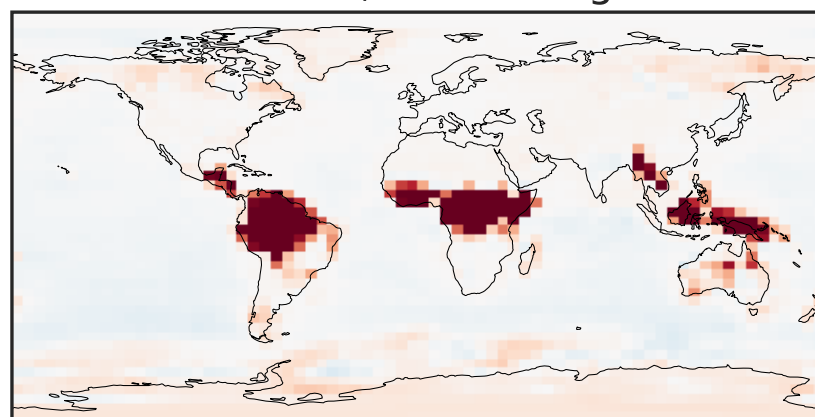
-0.00015 0.00000 0.00015  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.104 0.552 1.000 5.309 9.619  
unitless

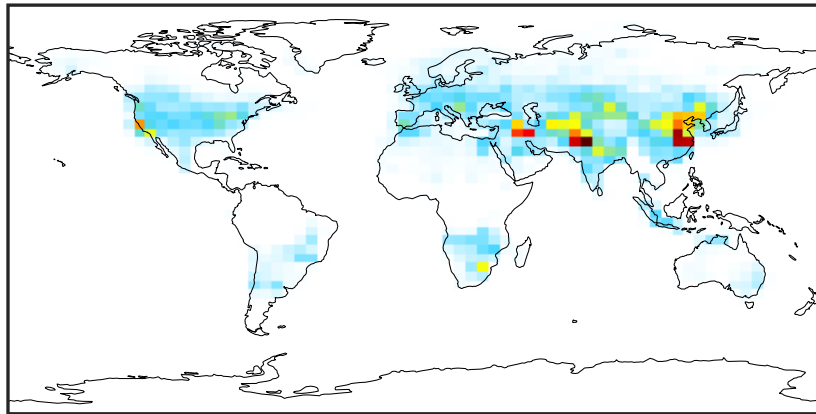
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

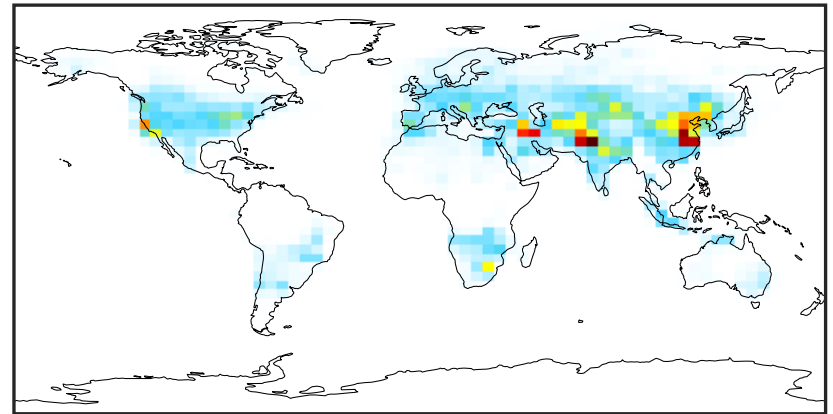
# SpeciesConcVV\_N2O5 (Oct2019)

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



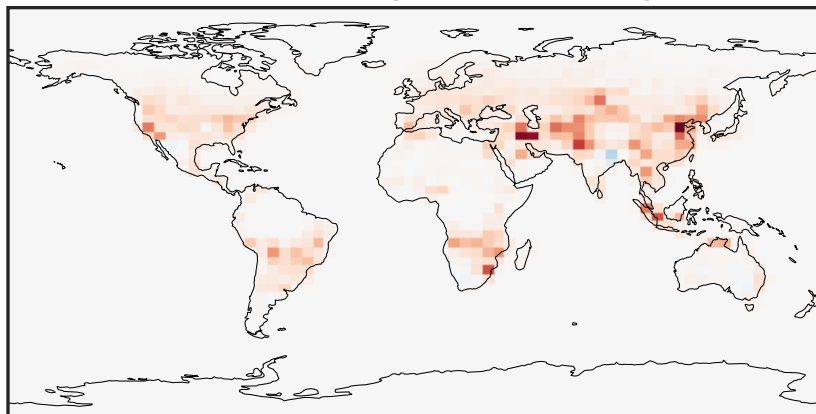
0.0000 0.0588 0.1175 0.1763 0.2351  
ppb

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



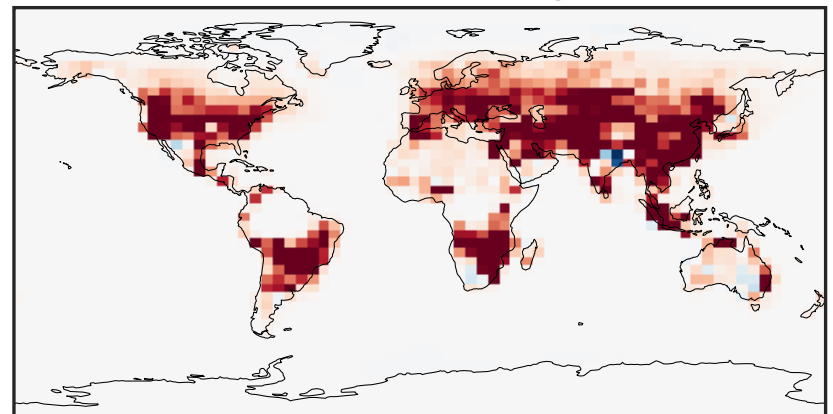
0.0000 0.0588 0.1175 0.1763 0.2351  
ppb

Difference  
Dev - Ref, Dynamic Range



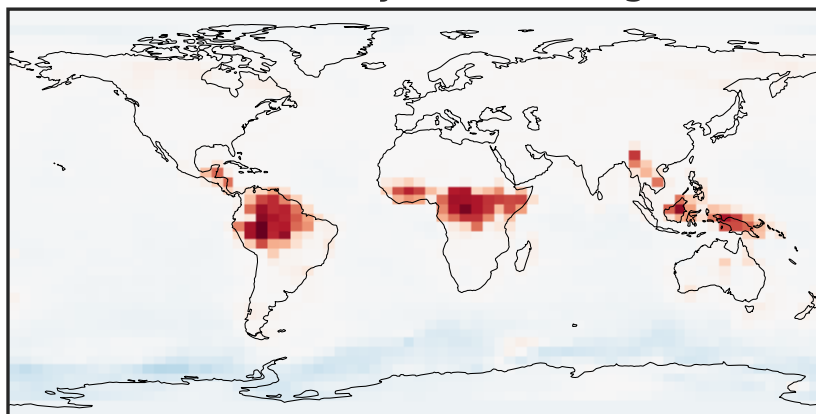
-0.0025 0.0000 0.0025  
ppb

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



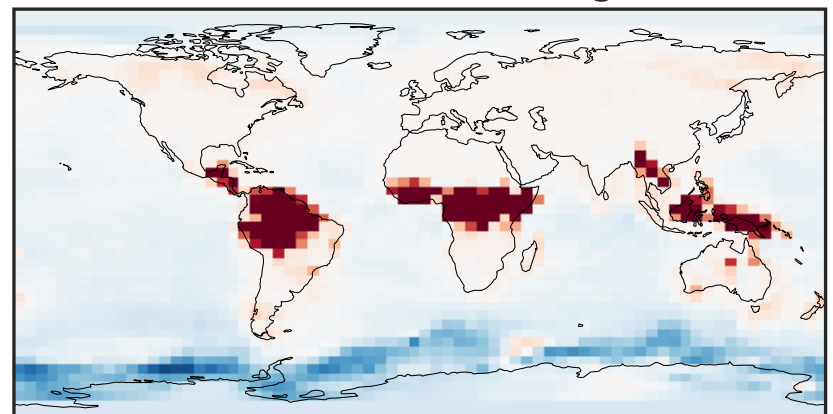
-0.0003 0.0000 0.0003  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.106 0.553 1.000 5.236 9.471  
unitless

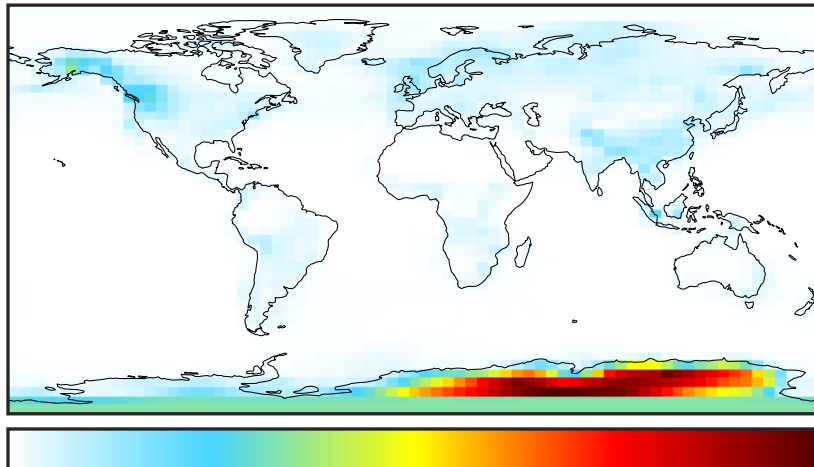
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

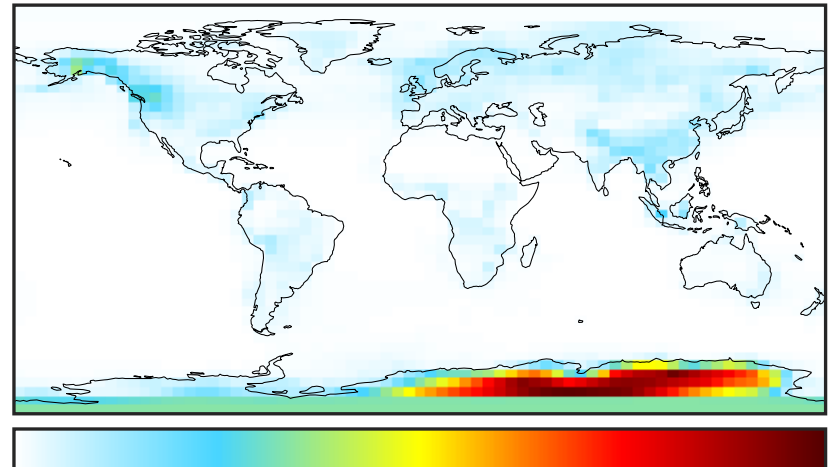
# SpeciesConcVW\_MPN (Oct2019)

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



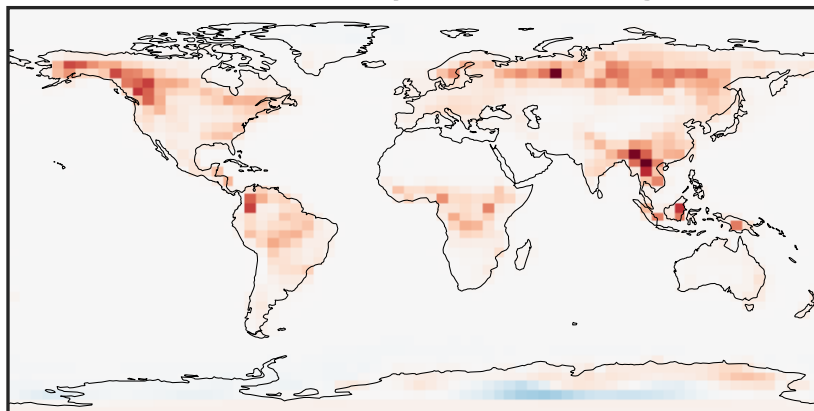
0.0015 0.0030 0.0045  
ppb

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



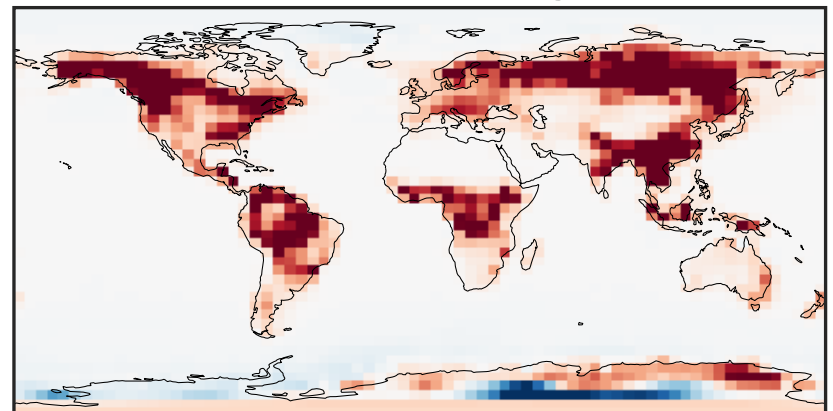
0.0015 0.0030 0.0045  
ppb

Difference  
Dev - Ref, Dynamic Range



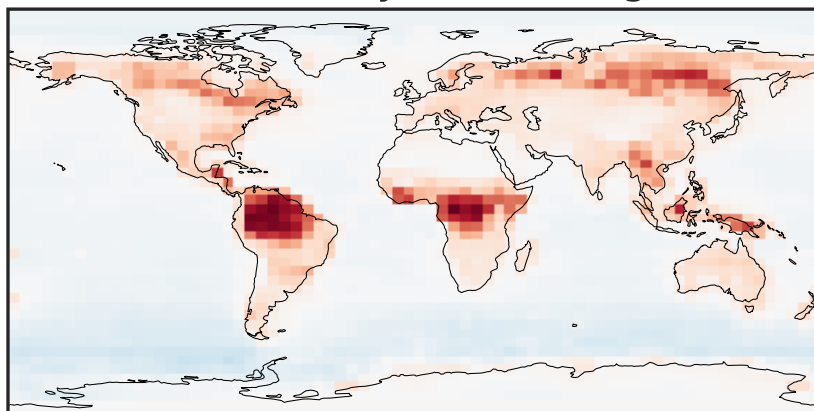
-0.00015 0.00000 0.00015  
ppb

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



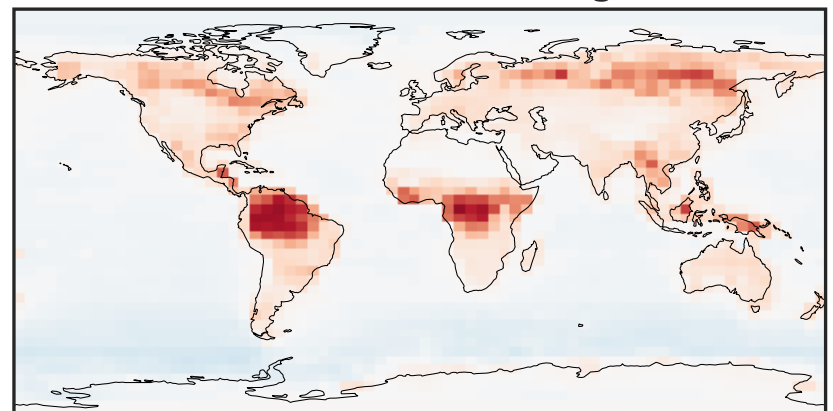
-4 0 4  
ppb  $1e-5$

Ratio  
Dev/Ref, Dynamic Range



0.543 0.771 1.000 1.421 1.842  
unitless

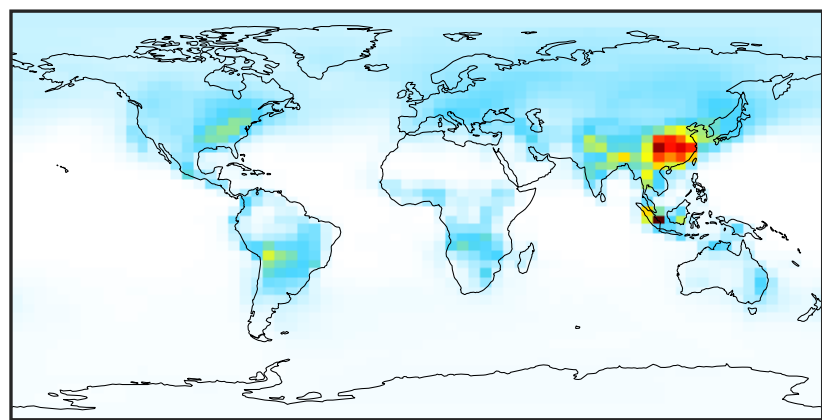
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

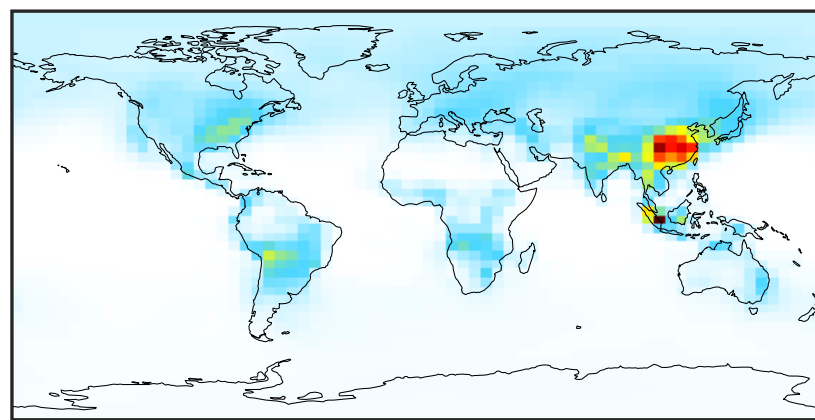
# SpeciesConcVV\_PAN (Oct2019)

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



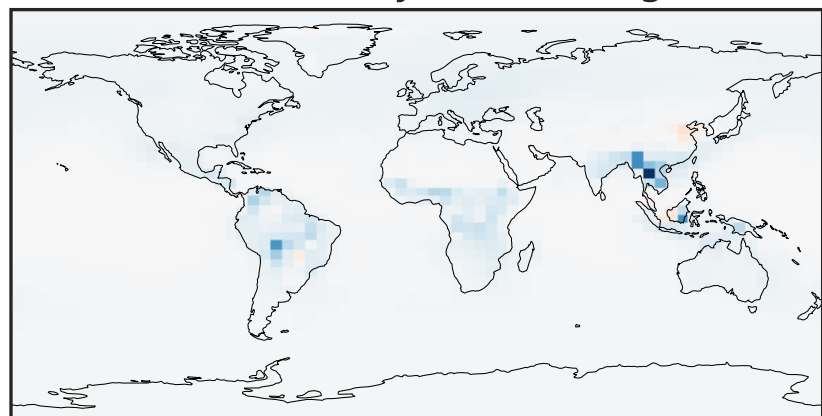
0.000 0.306 0.611 0.916 1.222  
ppb

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



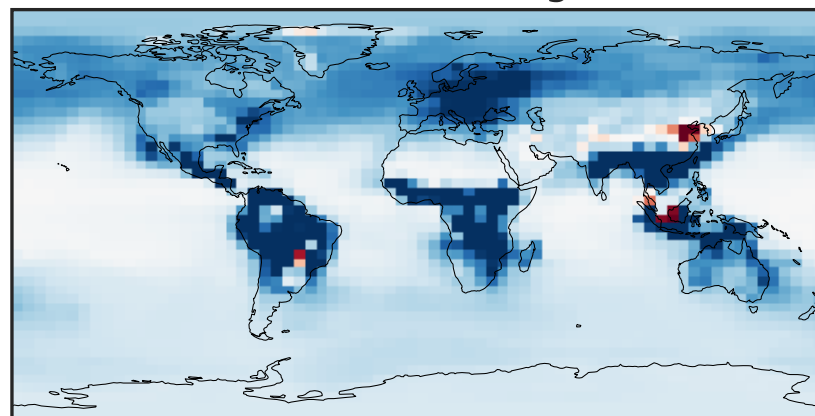
0.000 0.306 0.611 0.916 1.222  
ppb

Difference  
Dev - Ref, Dynamic Range



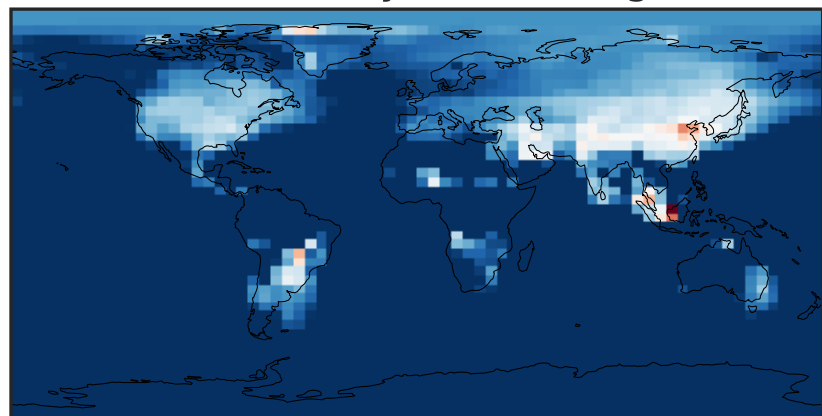
-0.062 -0.031 0.000 0.031 0.062  
ppb

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



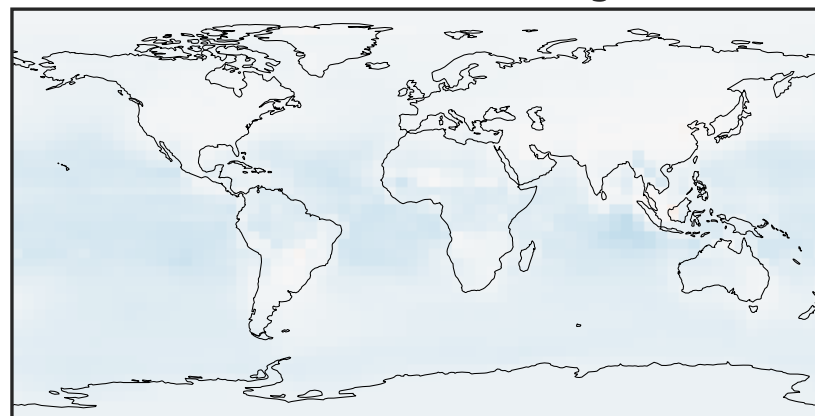
-0.003 0.000 0.003  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.96706 0.98353 1.00000 1.01703 1.03407  
unitless

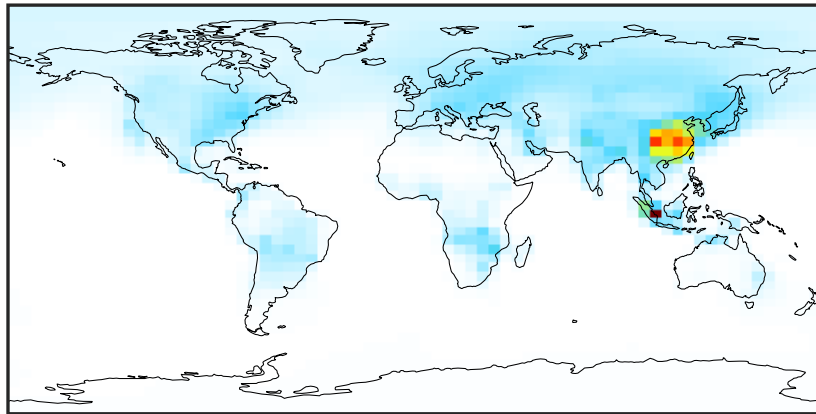
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

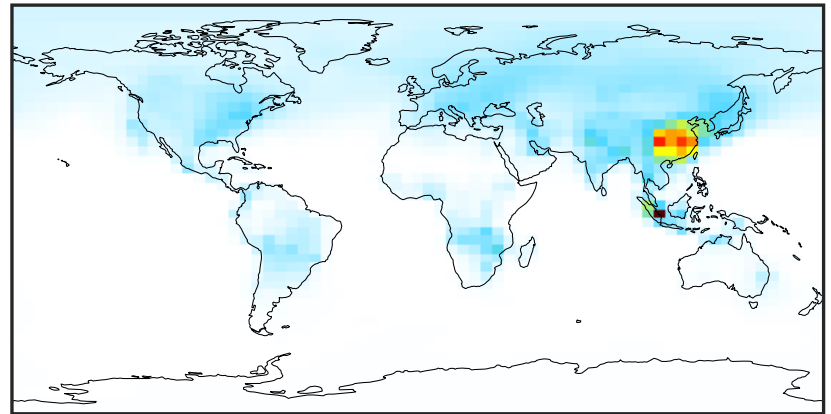
# SpeciesConcVV\_PPN (Oct2019)

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



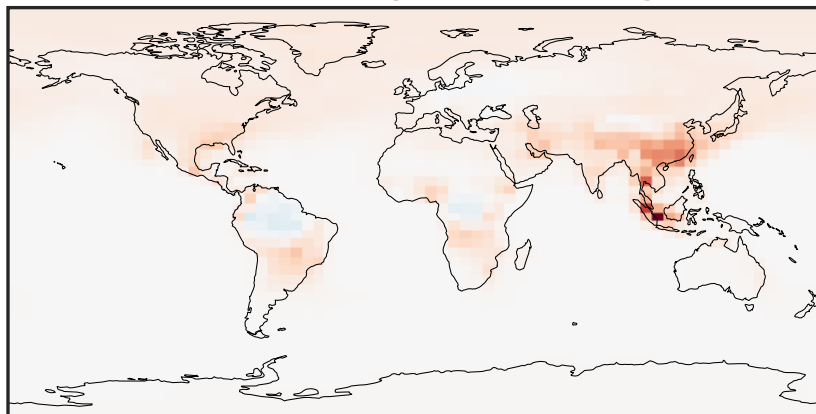
0.0000 0.0985 0.1969 0.2954 0.3939  
ppb

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



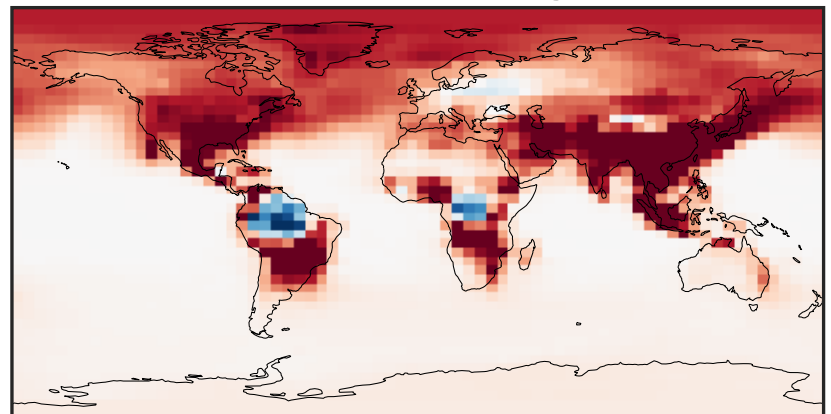
0.0000 0.0985 0.1969 0.2954 0.3939  
ppb

Difference  
Dev - Ref, Dynamic Range



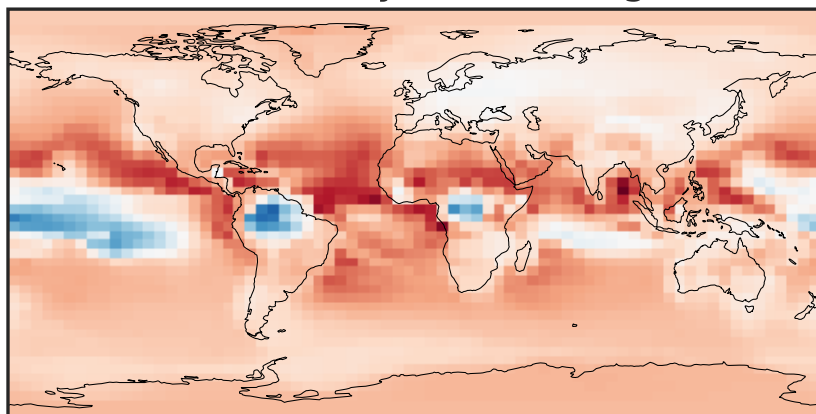
-0.01 0.00 0.01  
ppb

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



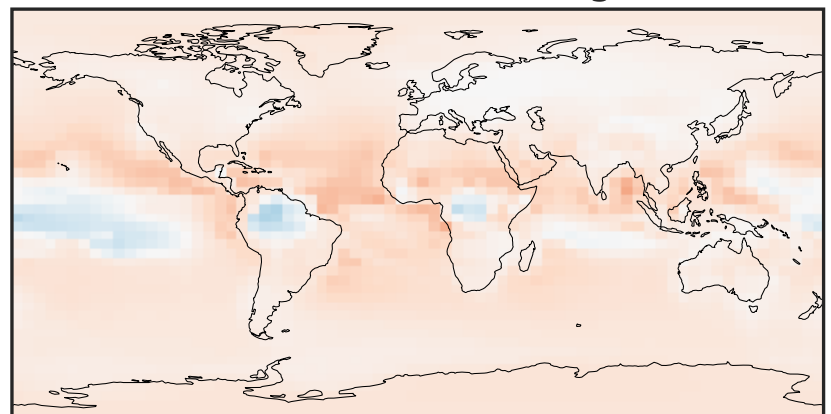
-0.001 0.000 0.001  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.7649 0.8825 1.0000 1.1536 1.3073  
unitless

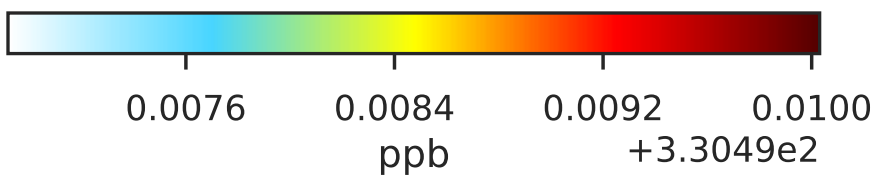
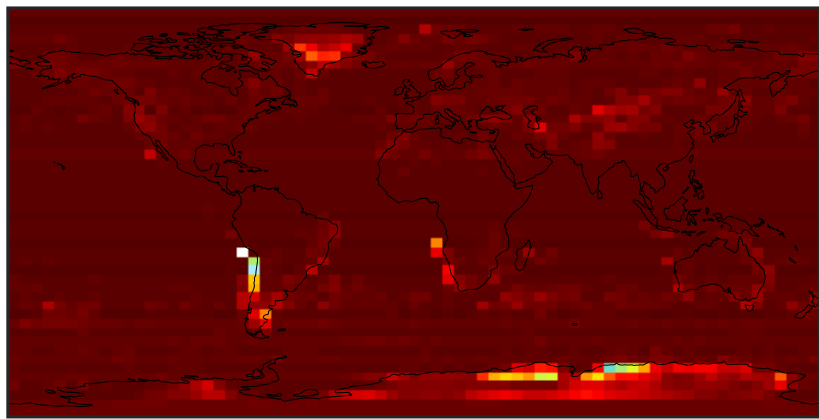
Ratio  
Dev/Ref, Fixed Range



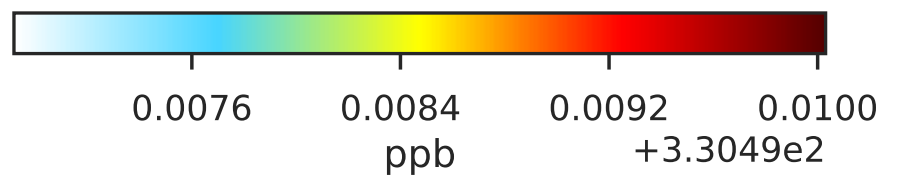
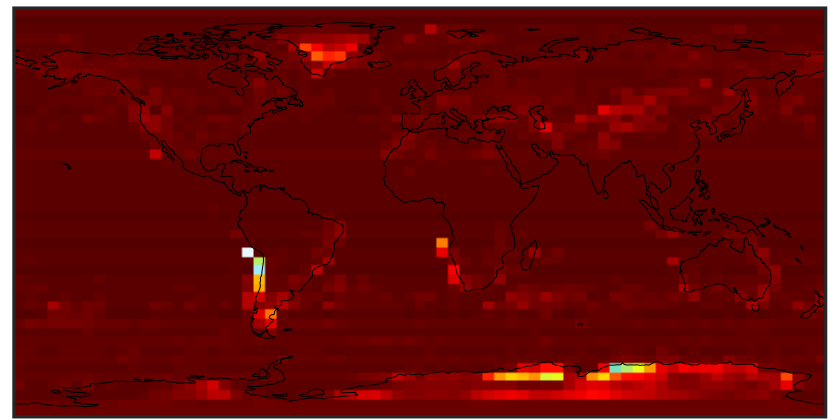
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVW\_N2O (Oct2019)

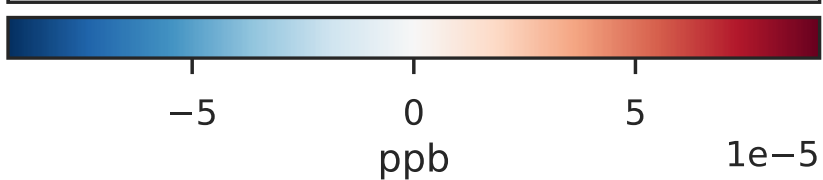
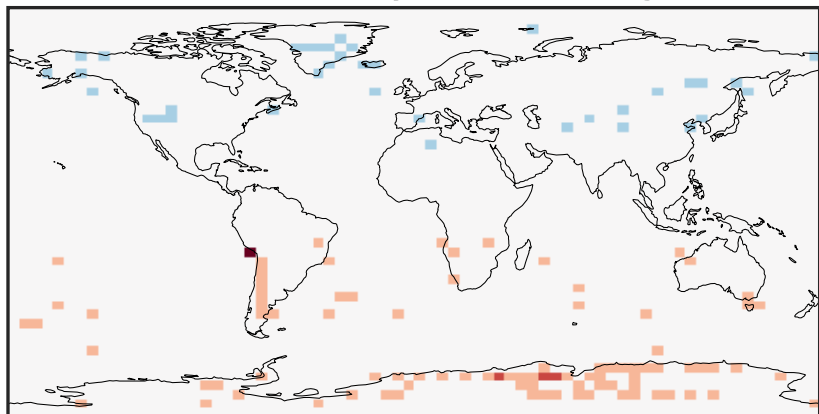
14.2.0-rc.2 (Ref)  
4.0x5.0



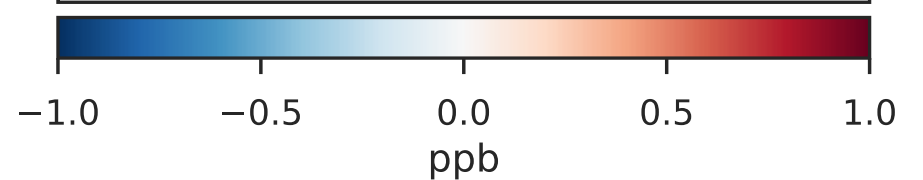
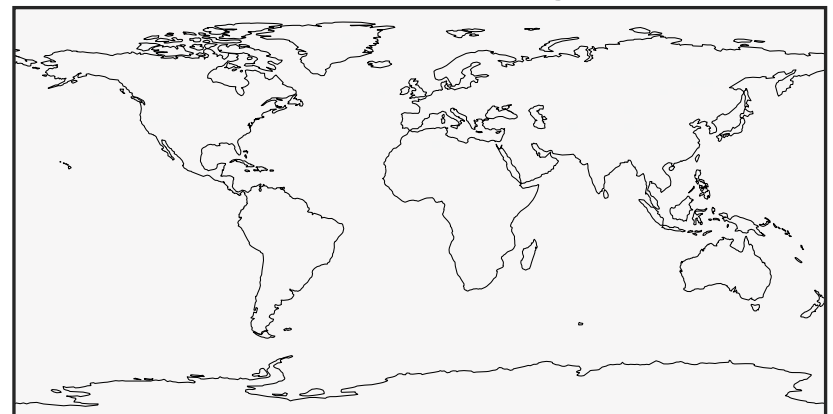
14.3.0-rc.0 (Dev)  
4.0x5.0



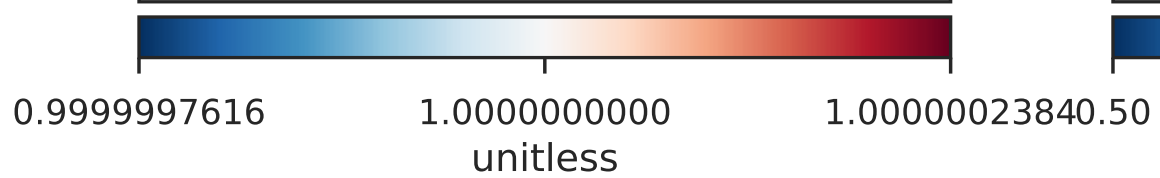
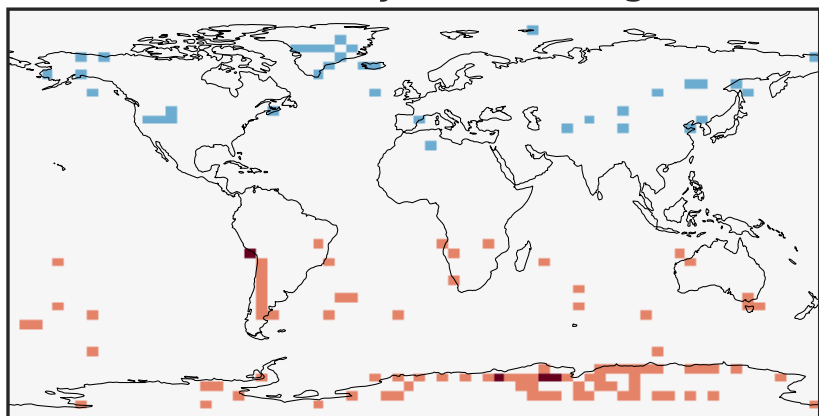
Difference  
Dev - Ref, Dynamic Range



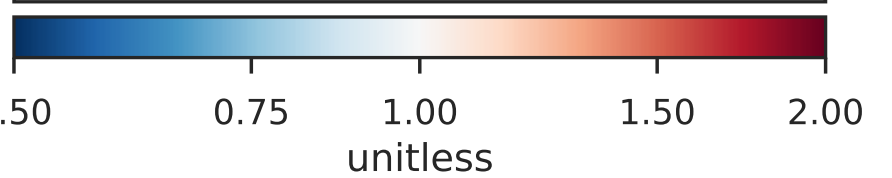
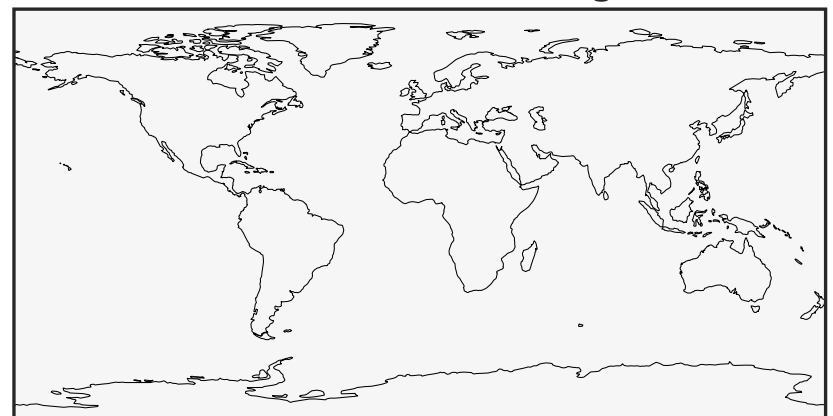
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

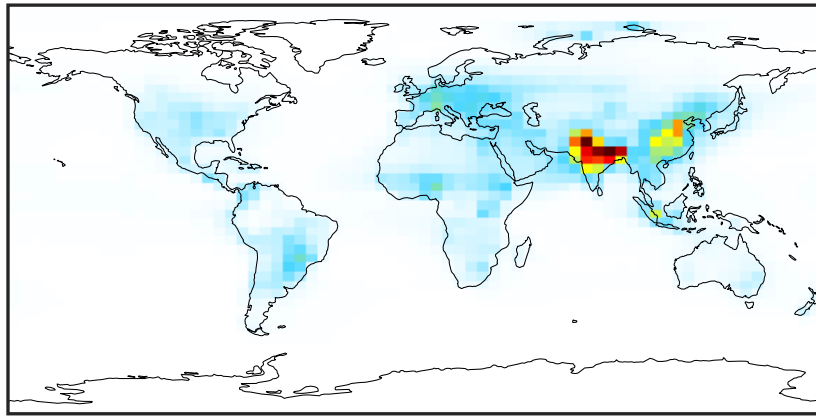


Ratio  
Dev/Ref, Fixed Range



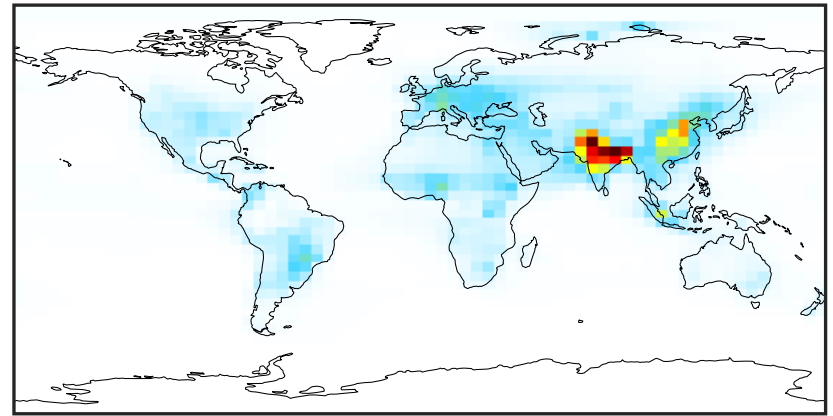
# SpeciesConcVV\_NHx (Oct2019)

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



0.01 7.44 14.87 22.30 29.74  
ppb

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



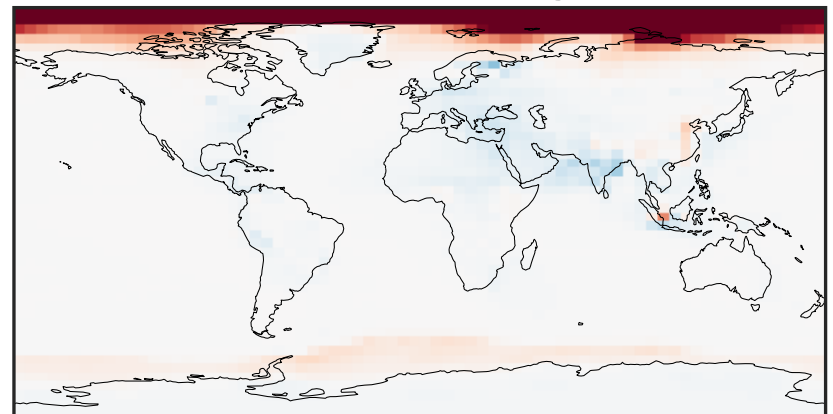
0.01 7.44 14.87 22.30 29.74  
ppb

Difference  
Dev - Ref, Dynamic Range



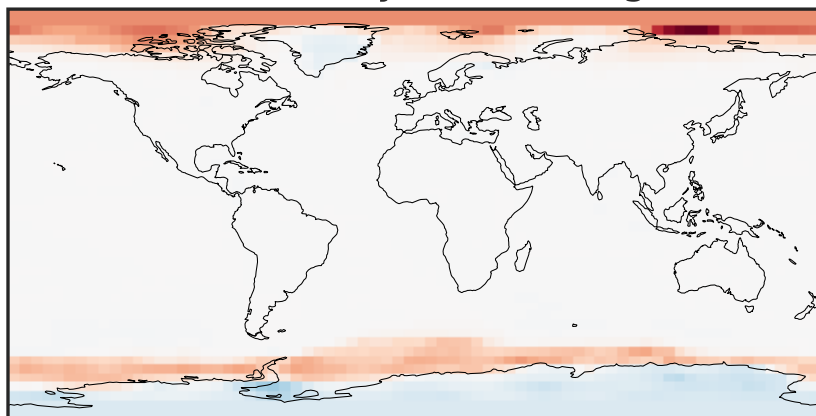
-0.995 -0.497 0.000 0.497 0.995  
ppb

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



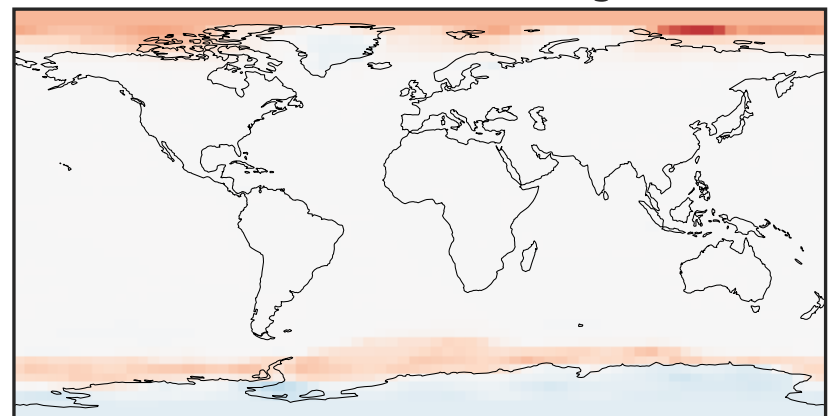
-0.0604 -0.0302 0.0000 0.0302 0.0604  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.608 0.804 1.000 1.322 1.644  
unitless

Ratio  
Dev/Ref, Fixed Range

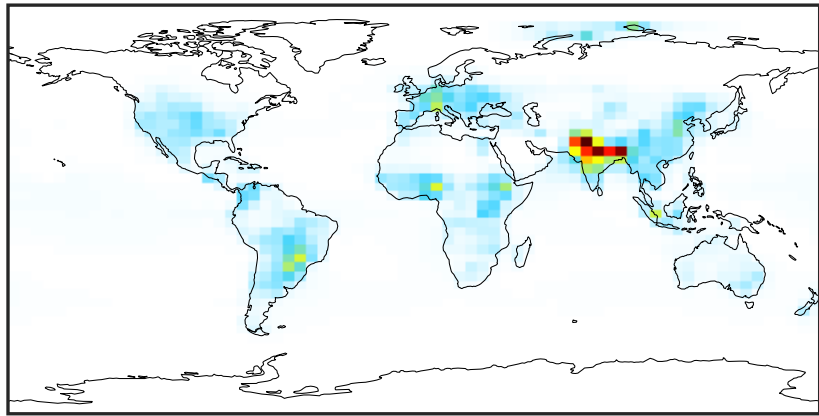


0.50 0.75 1.00 1.50 2.00  
unitless



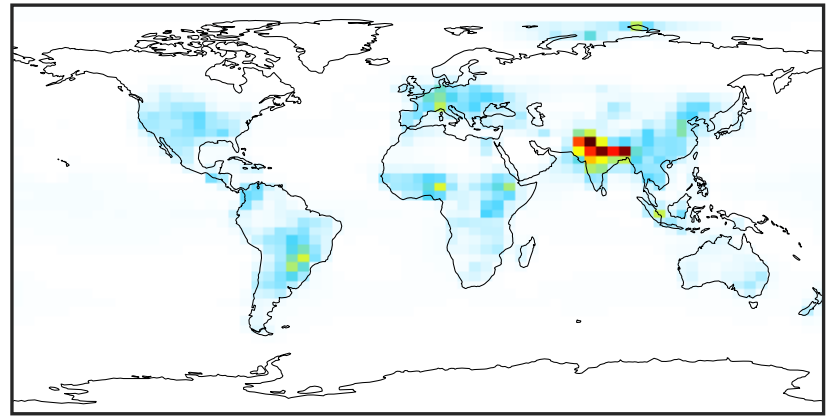
# SpeciesConcVV\_NH3 (Oct2019)

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



0.0 4.3 8.6 12.9 17.2  
ppb

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



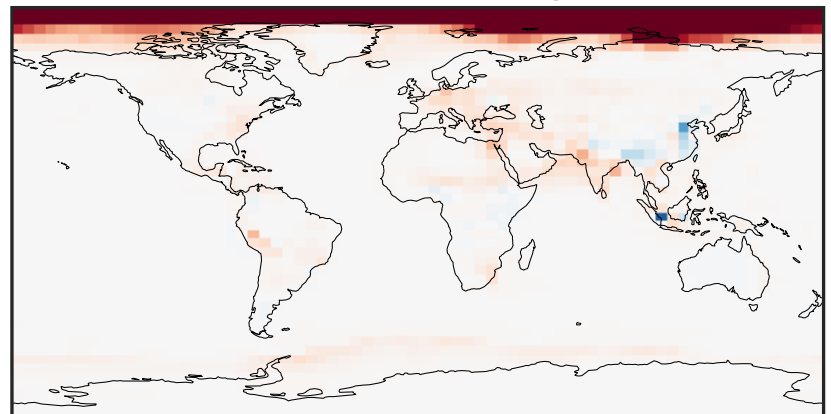
0.0 4.3 8.6 12.9 17.2  
ppb

Difference  
Dev - Ref, Dynamic Range



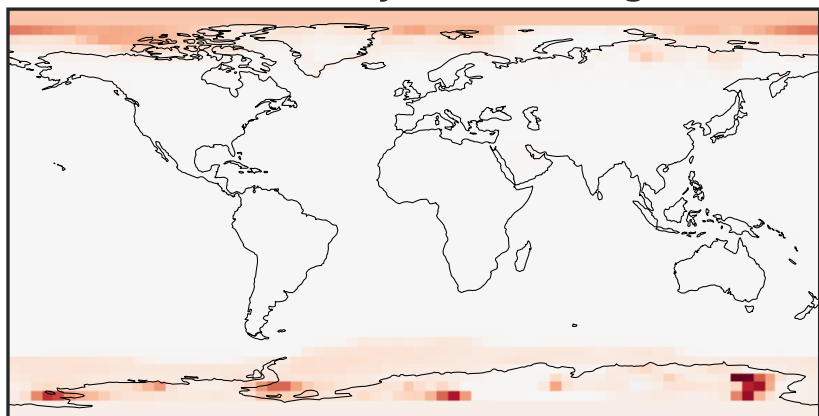
-0.983 -0.492 0.000 0.492 0.983  
ppb

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



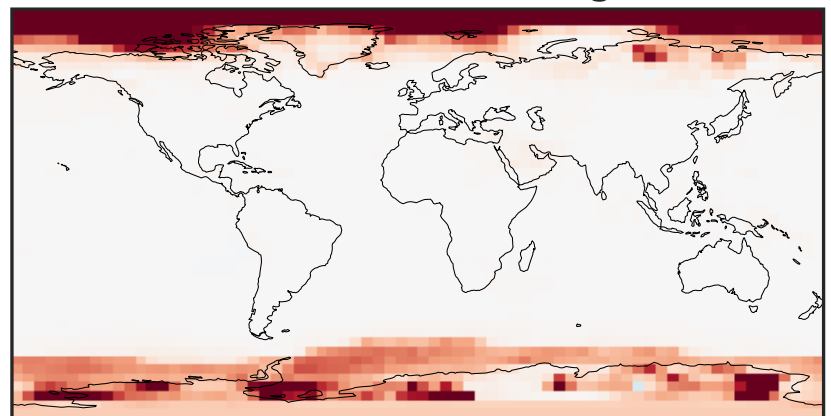
-0.0507 -0.0254 0.0000 0.0254 0.0507  
ppb

Ratio  
Dev/Ref, Dynamic Range



1e-01 1 10  
unitless

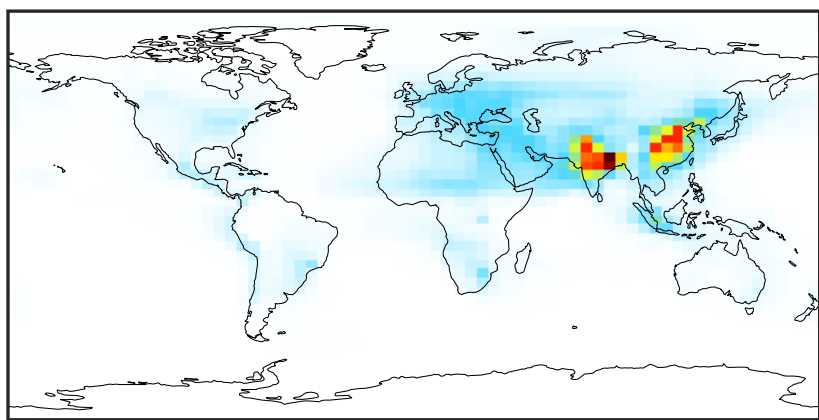
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

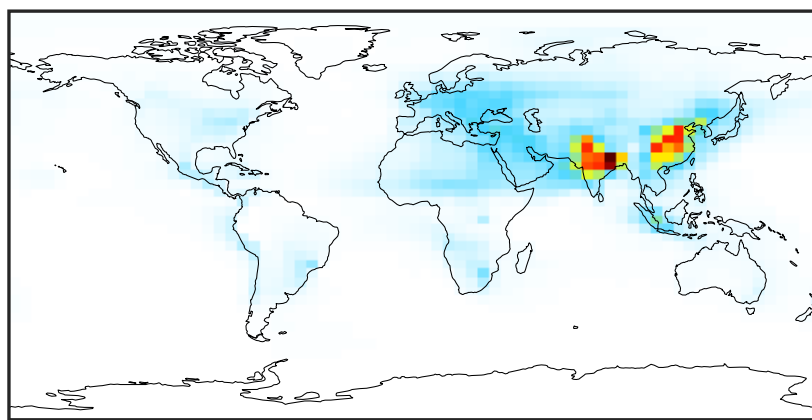
# SpeciesConcVV\_NH4 (Oct2019)

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



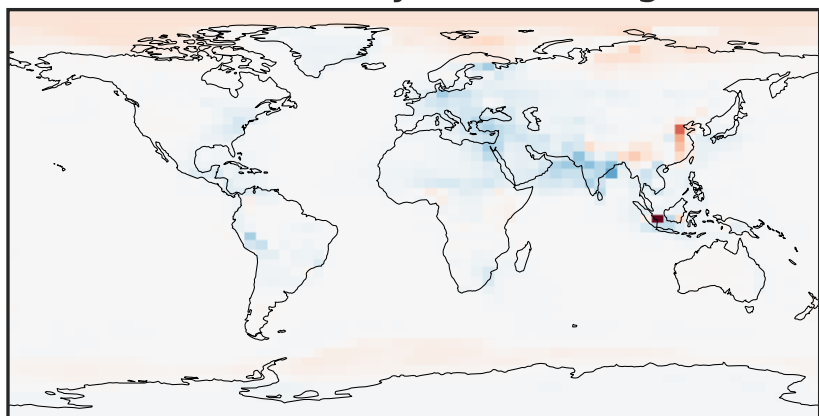
0.00 4.28 8.57 12.85 17.13  
ppb

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



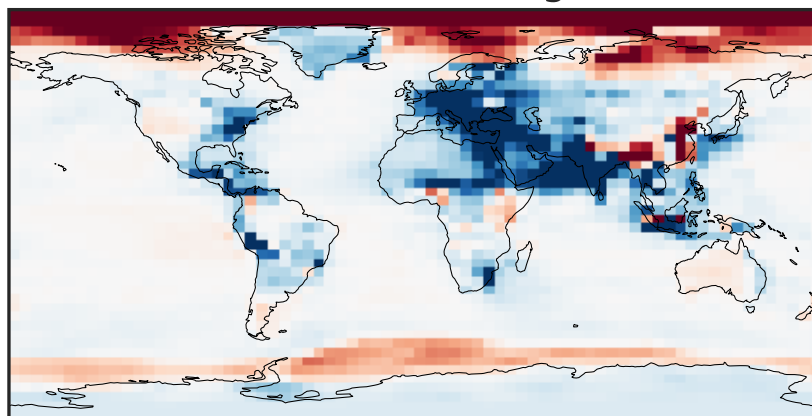
0.00 4.28 8.57 12.85 17.13  
ppb

Difference  
Dev - Ref, Dynamic Range



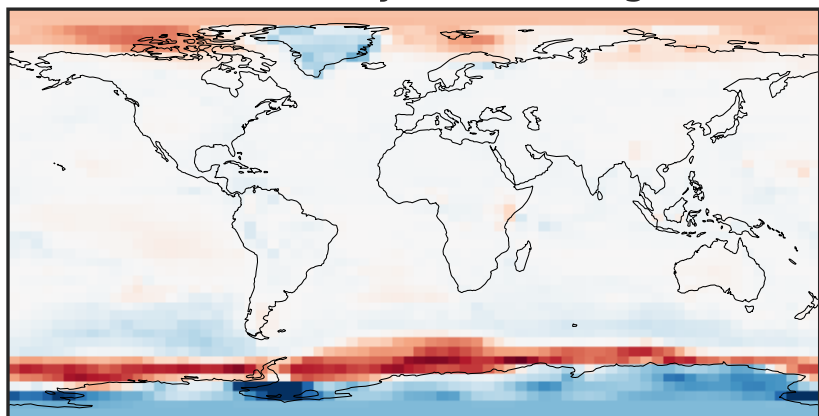
-0.0715 -0.0358 0.0000 0.0358 0.0715  
ppb

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



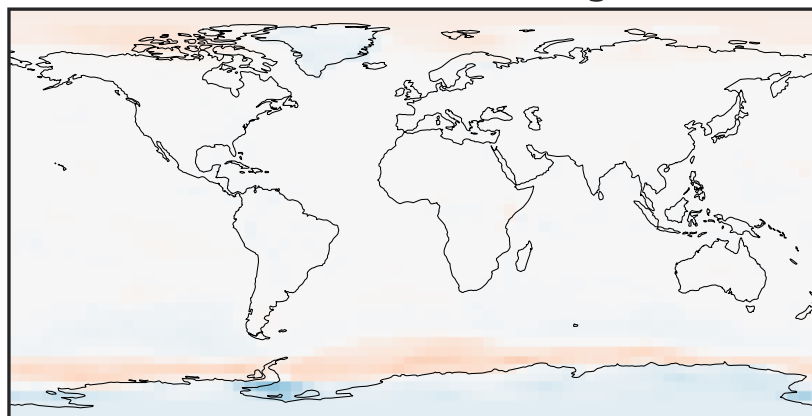
-0.005 0.000 0.005  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.8457 0.9229 1.0000 1.0912 1.1824  
unitless

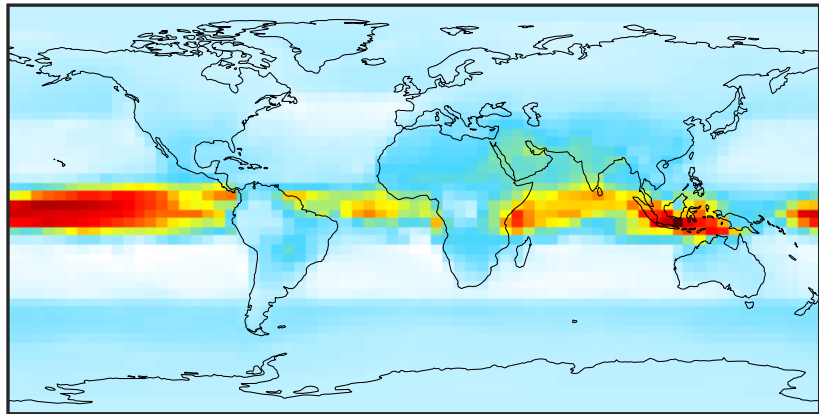
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

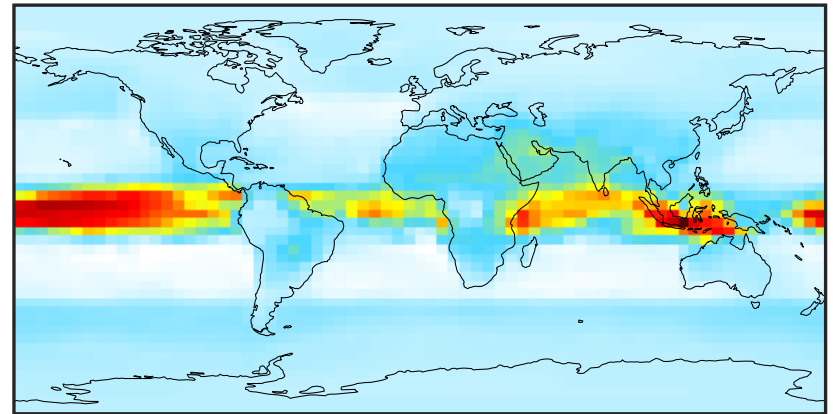
# SpeciesConcVV\_MENO3 (Oct2019)

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



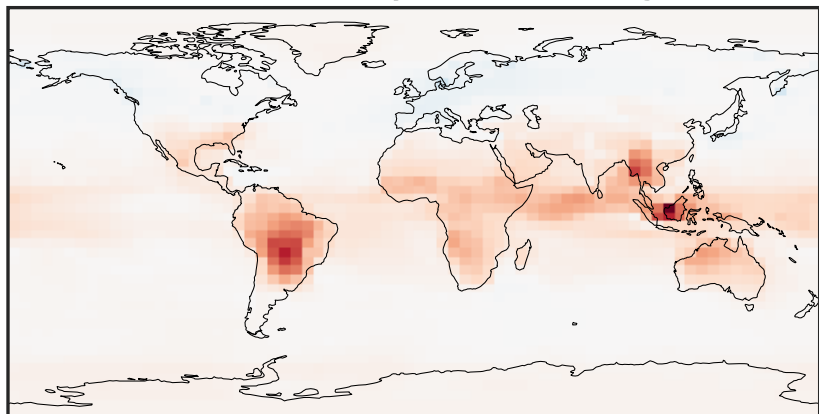
0.006 0.012 0.018 0.024  
ppb

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



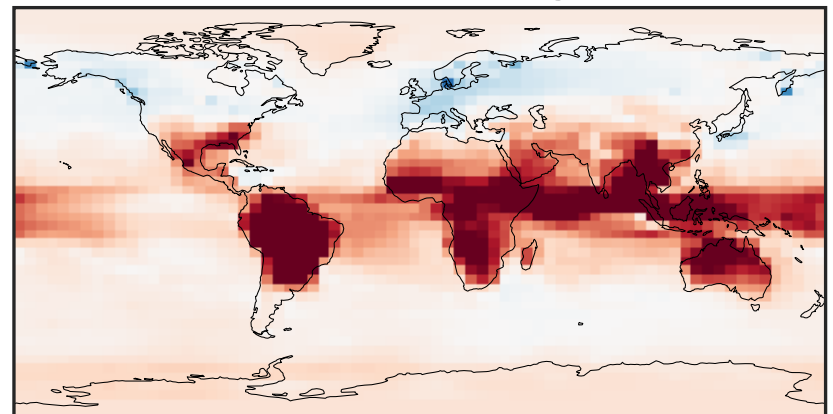
0.006 0.012 0.018 0.024  
ppb

Difference  
Dev - Ref, Dynamic Range



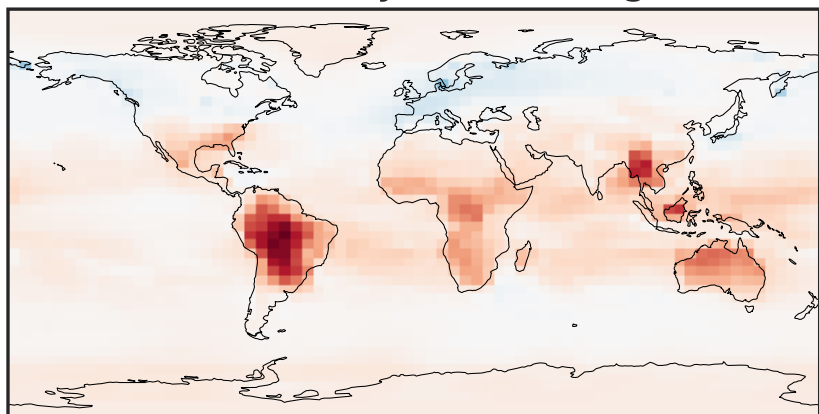
-0.00015 0.00000 0.00015  
ppb

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



-4 0 4  
ppb  $1e-5$

Ratio  
Dev/Ref, Dynamic Range



0.97303 0.98651 1.00000 1.01386 1.02772  
unitless

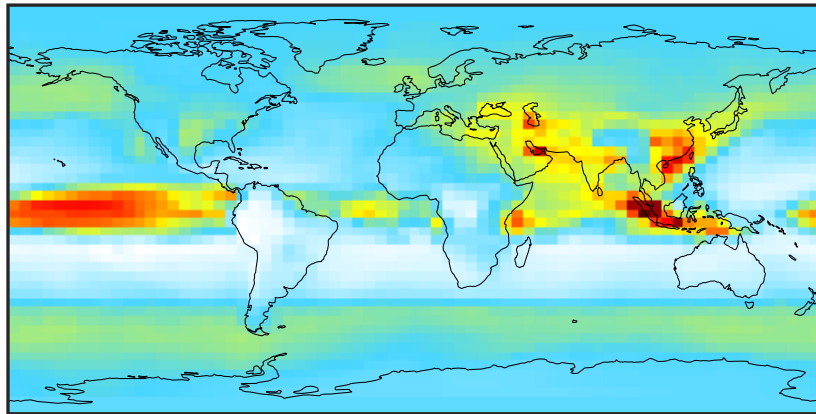
Ratio  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

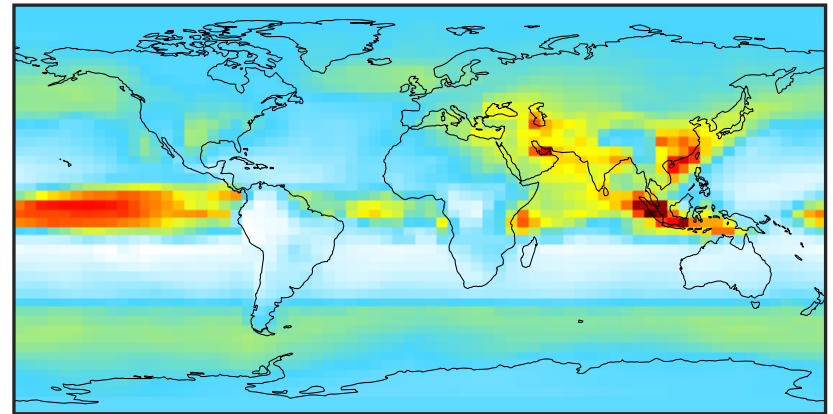
# SpeciesConcVV\_ETNO3 (Oct2019)

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



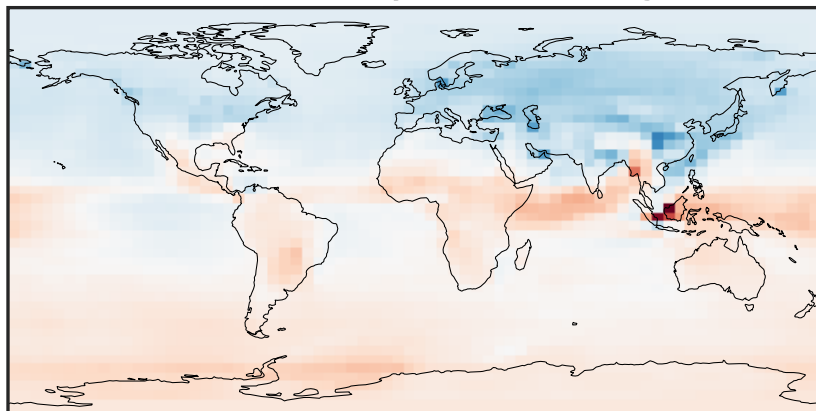
0.0025 0.0050 0.0075  
ppb

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



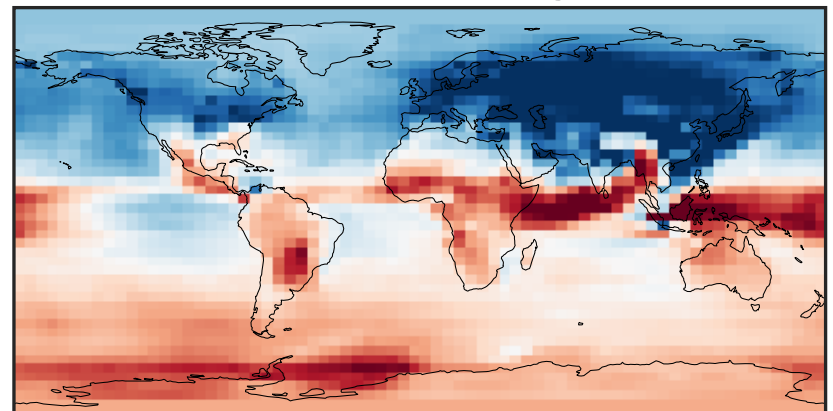
0.0025 0.0050 0.0075  
ppb

Difference  
Dev - Ref, Dynamic Range



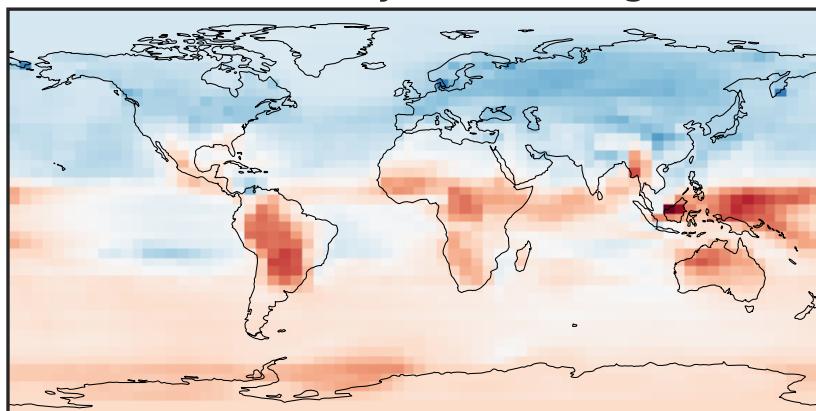
-6 0 6  
ppb  $1e-5$

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



-1.5 0.0 1.5  
ppb  $1e-5$

Ratio  
Dev/Ref, Dynamic Range



0.97654 0.98827 1.00000 1.01201 1.02403  
unitless

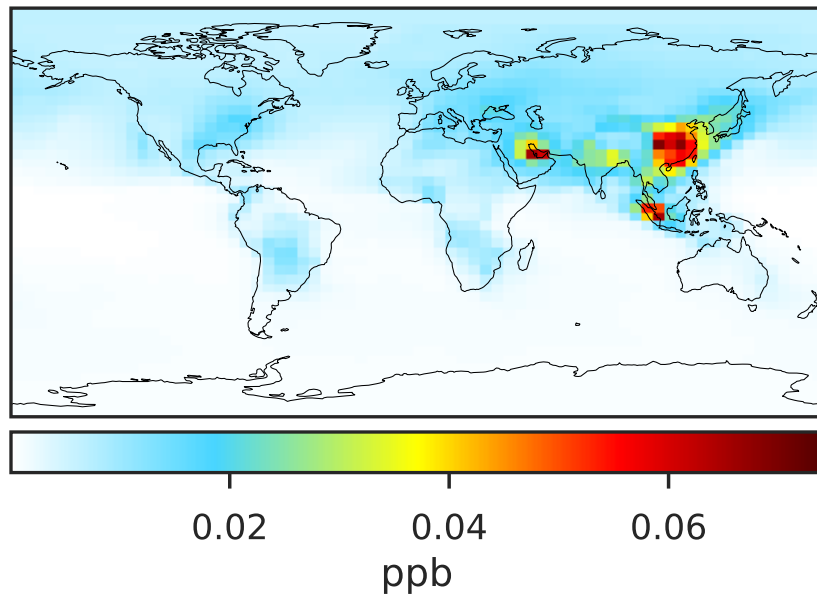
Ratio  
Dev/Ref, Fixed Range



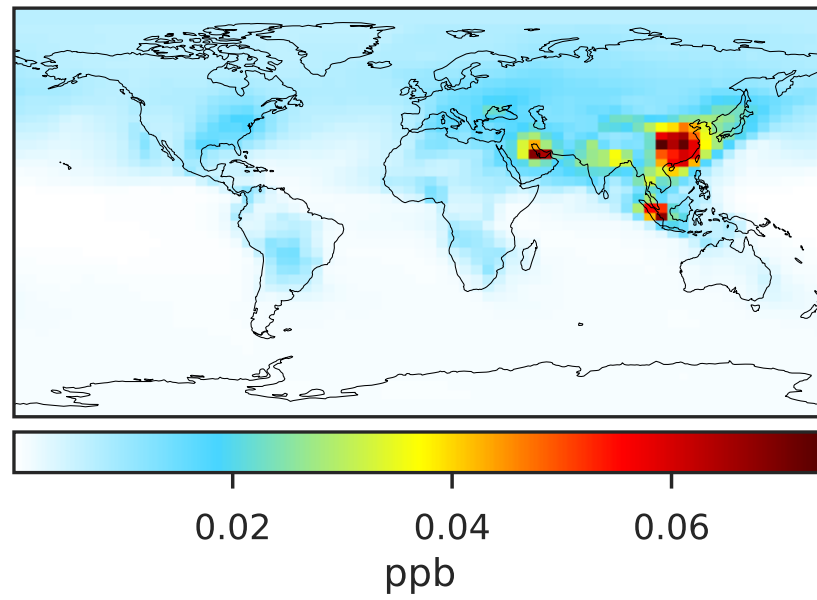
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_IPRNO3 (Oct2019)

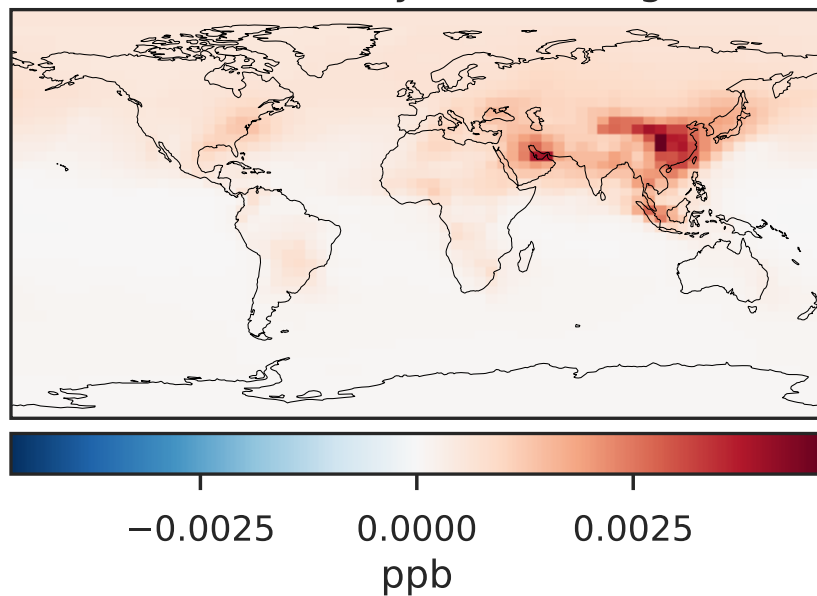
14.2.0-rc.2 (Ref)  
4.0x5.0



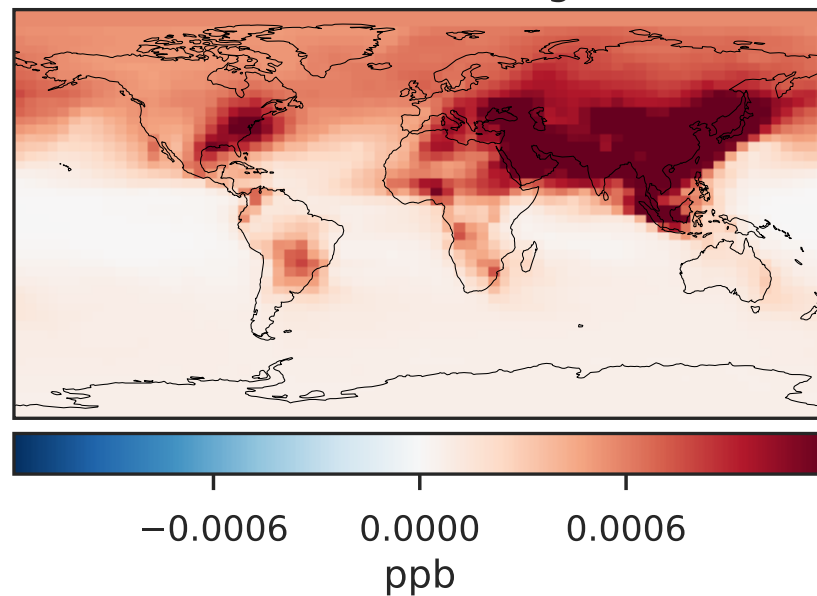
14.3.0-rc.0 (Dev)  
4.0x5.0



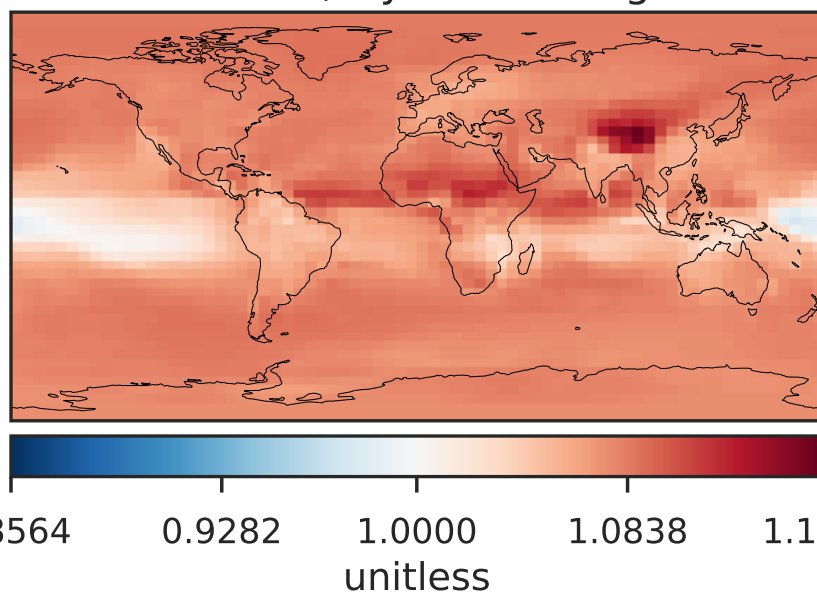
Difference  
Dev - Ref, Dynamic Range



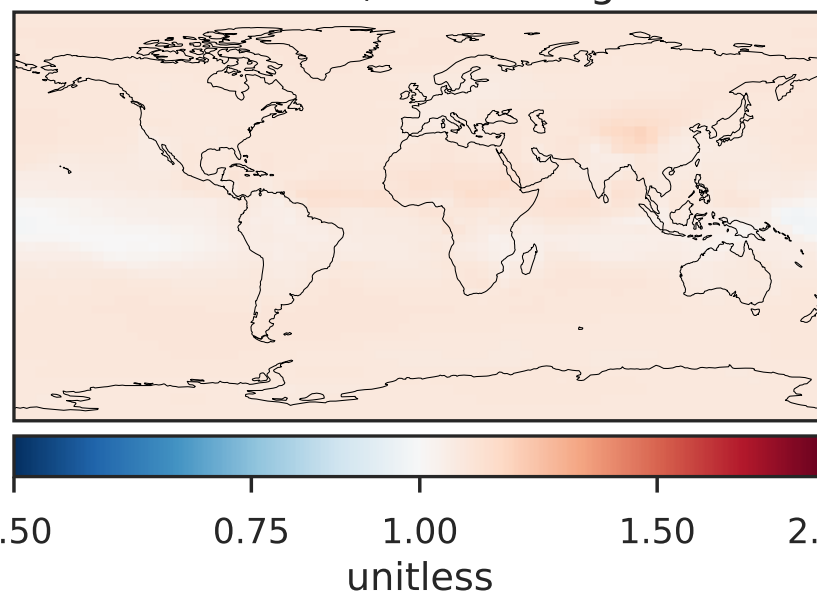
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

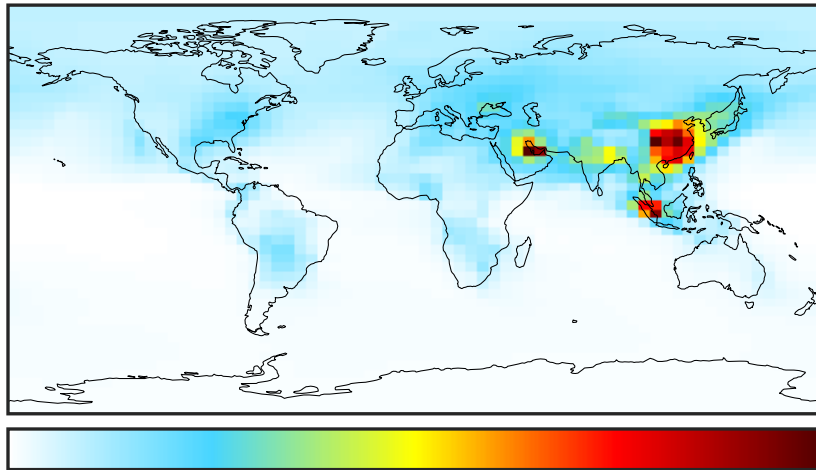


Ratio  
Dev/Ref, Fixed Range



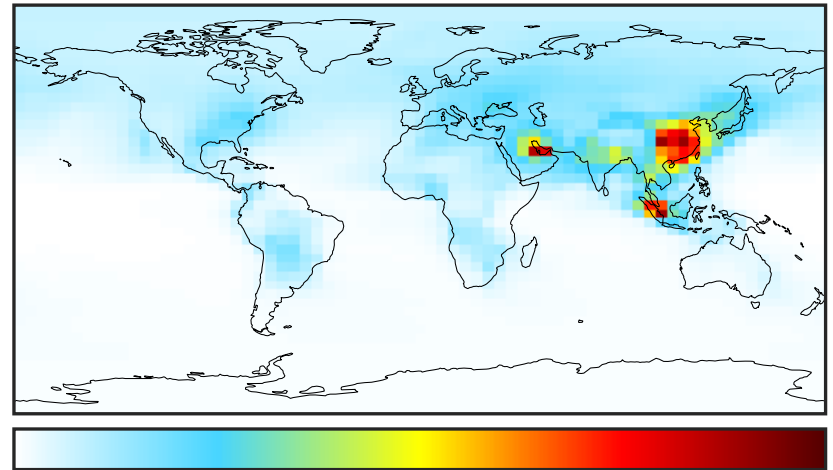
# SpeciesConcVV\_NPRNO3 (Oct2019)

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



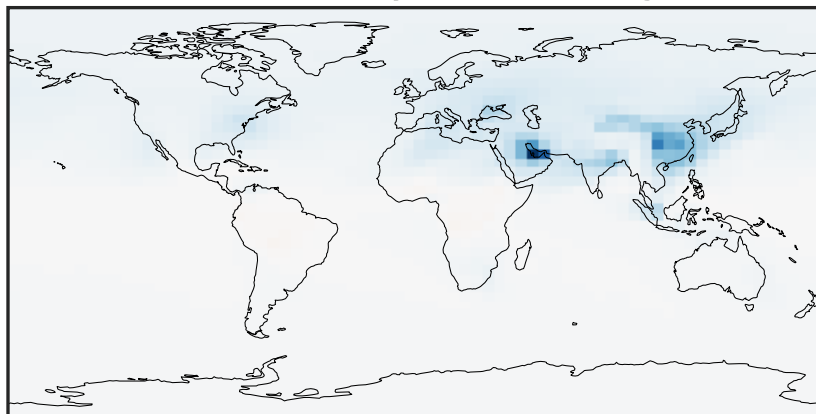
0.005 0.010 0.015  
ppb

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



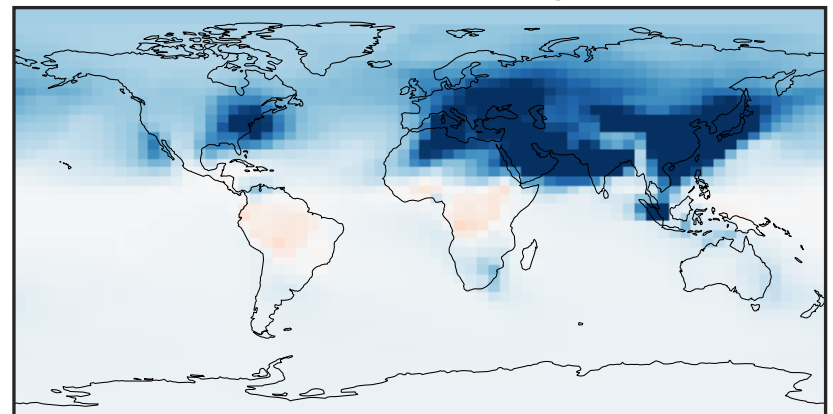
0.005 0.010 0.015  
ppb

Difference  
Dev - Ref, Dynamic Range



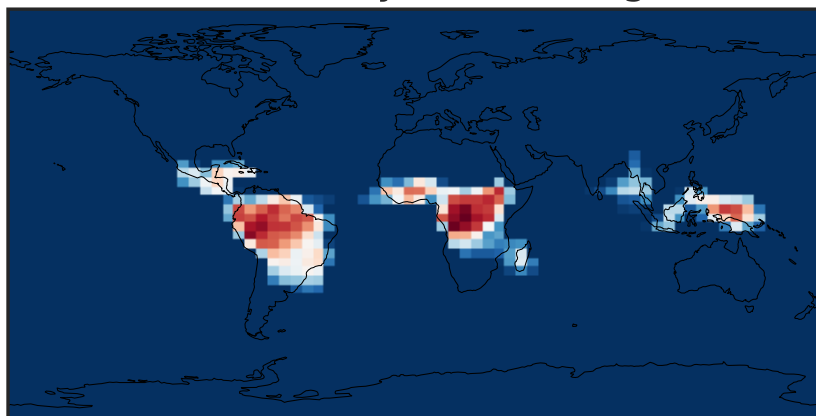
-0.0015 0.0000 0.0015  
ppb

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



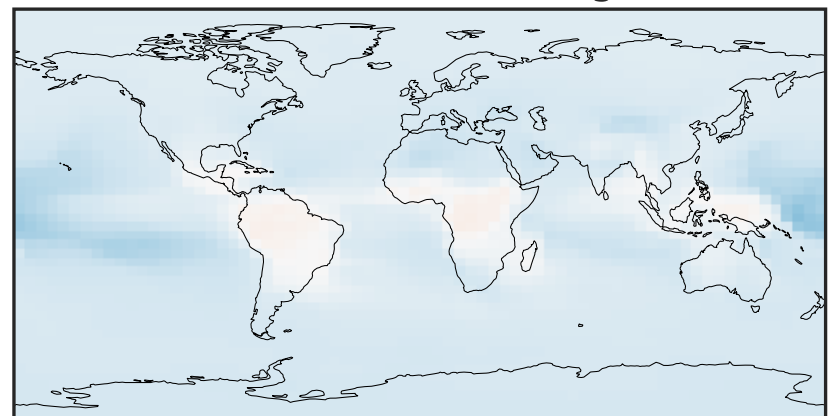
-0.00025 0.00000 0.00025  
ppb

Ratio  
Dev/Ref, Dynamic Range



0.96198 0.98099 1.00000 1.01976 1.03953  
unitless

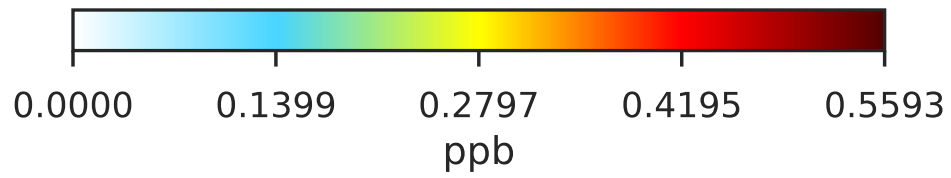
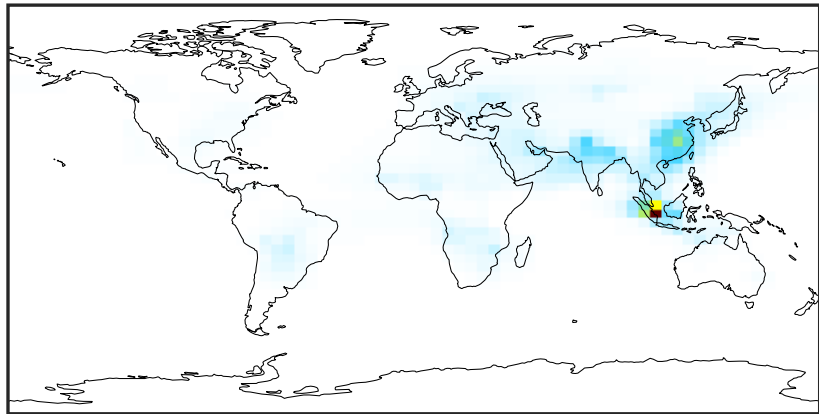
Ratio  
Dev/Ref, Fixed Range



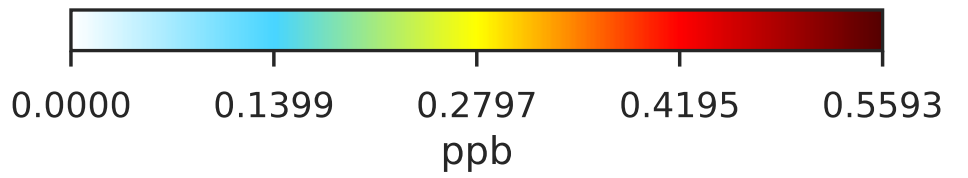
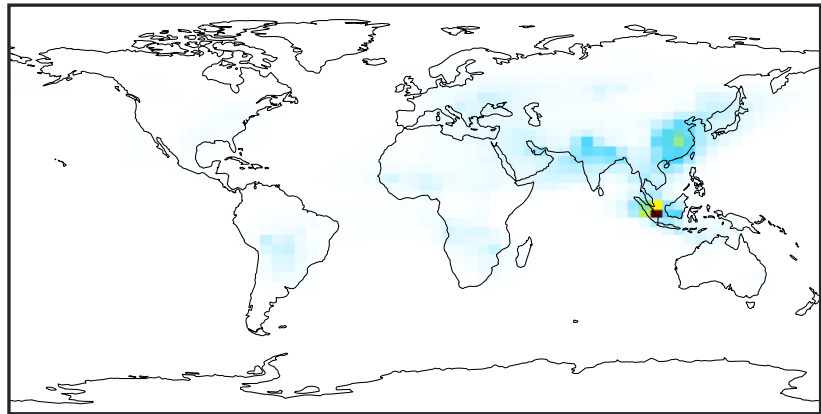
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_AONITA (Oct2019)

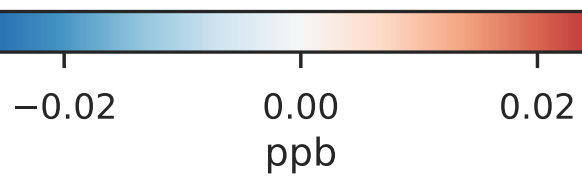
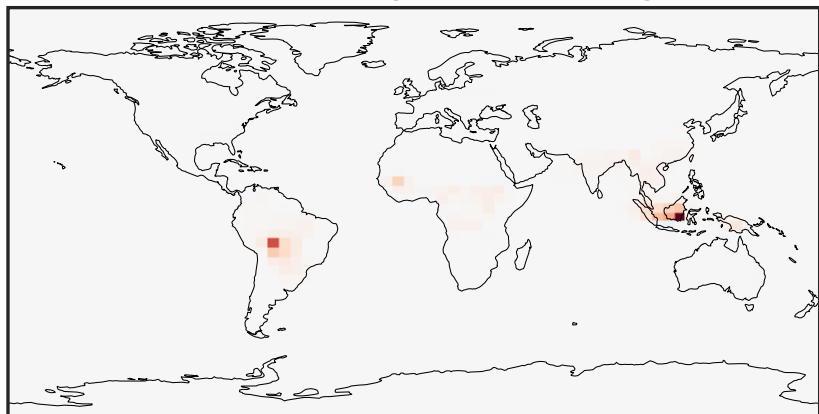
14.2.0-rc.2 (Ref)  
4.0x5.0



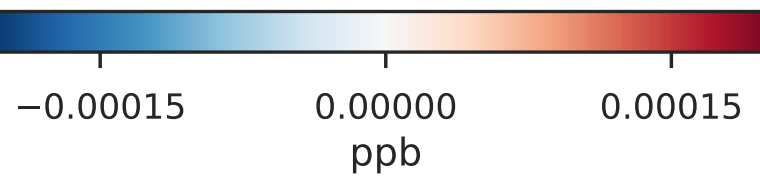
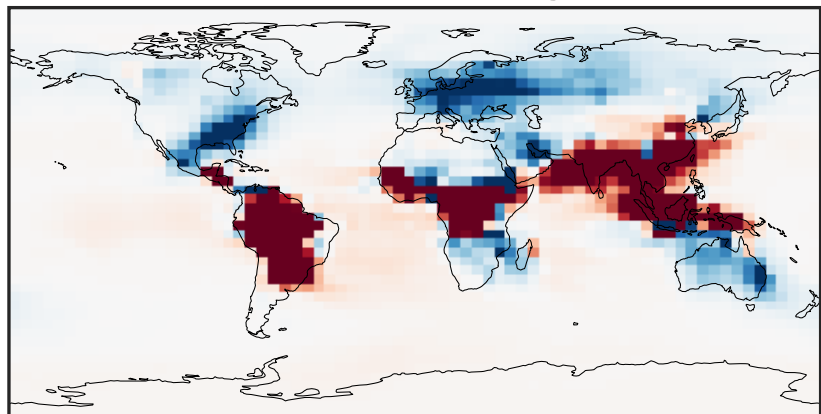
14.3.0-rc.0 (Dev)  
4.0x5.0



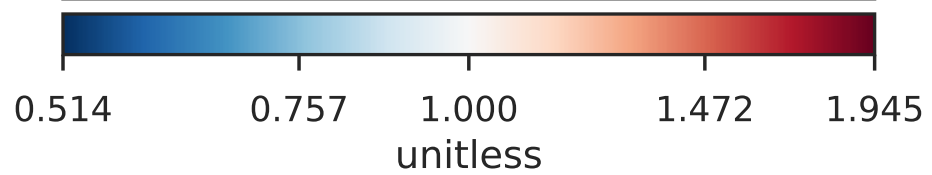
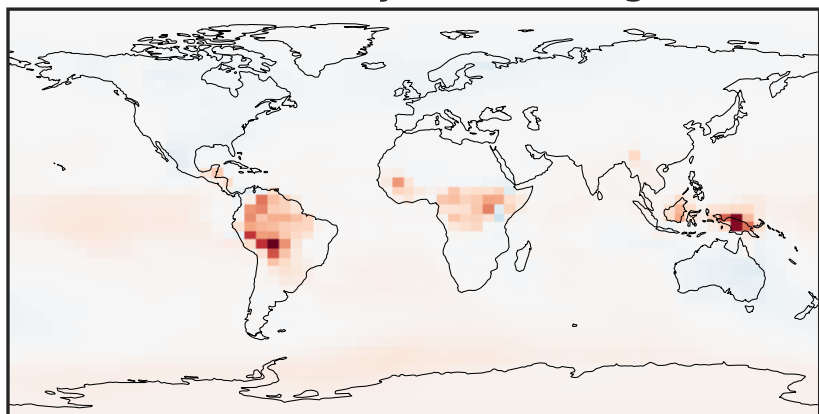
Difference  
Dev - Ref, Dynamic Range



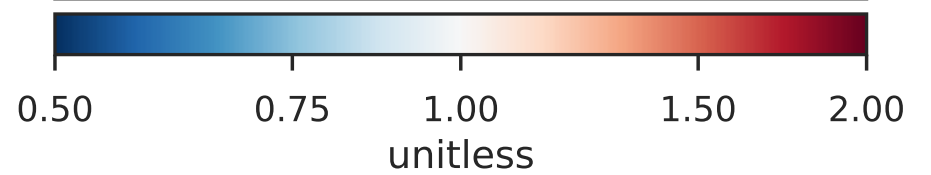
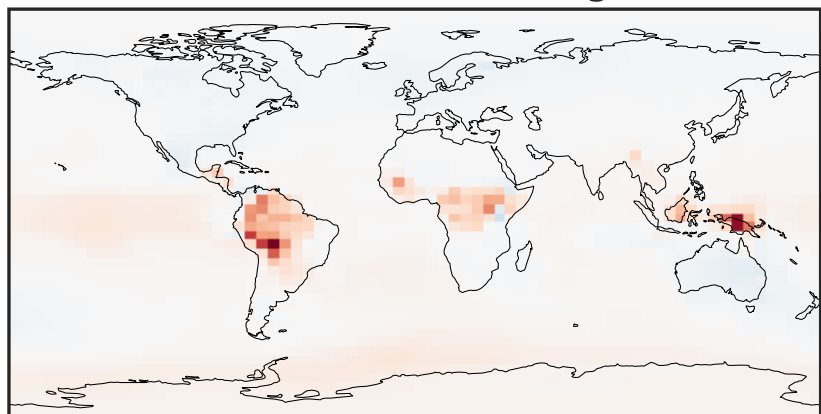
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

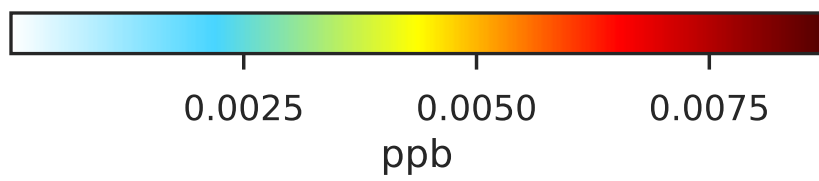
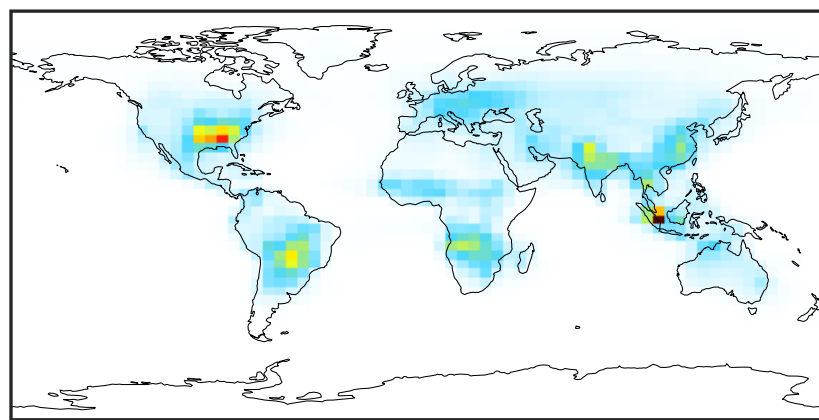


Ratio  
Dev/Ref, Fixed Range



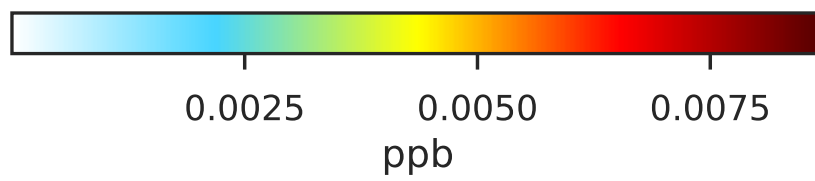
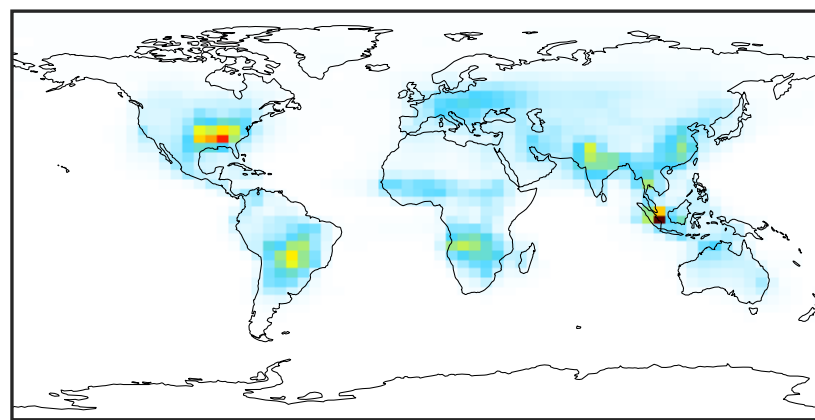
# SpeciesConcVV\_ETHN (Oct2019)

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



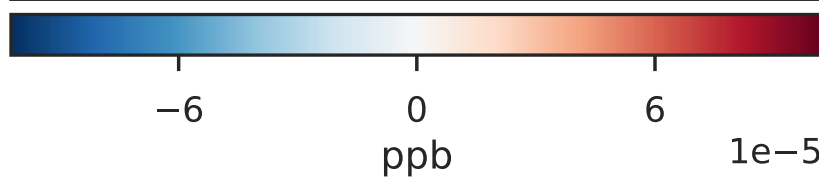
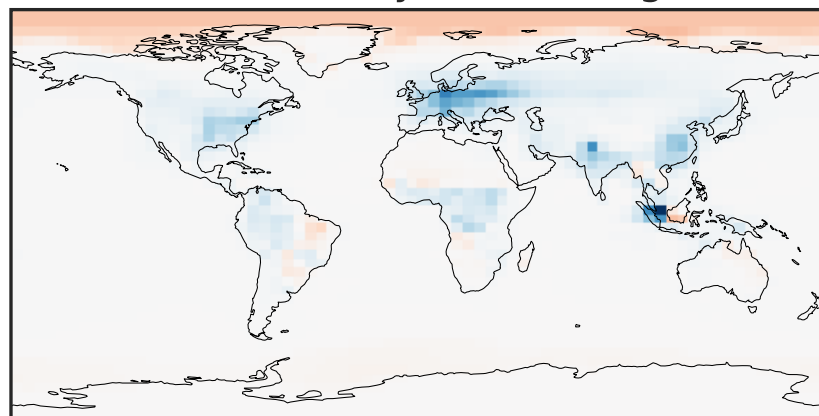
0.0025 0.0050 0.0075  
ppb

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



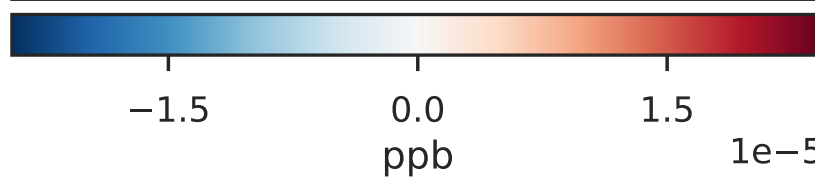
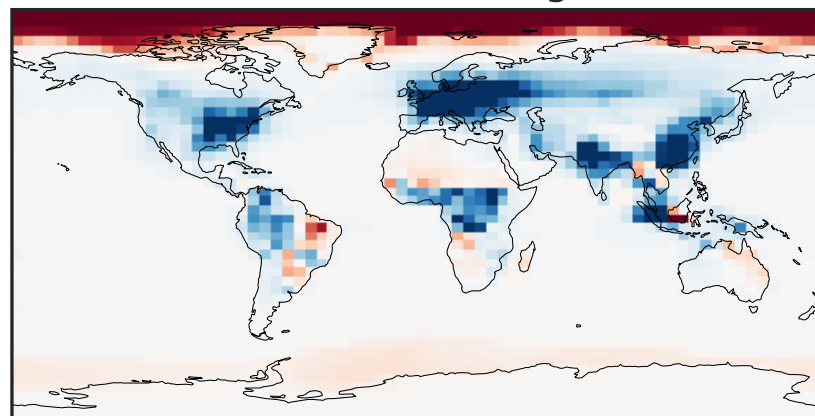
0.0025 0.0050 0.0075  
ppb

Difference  
Dev - Ref, Dynamic Range



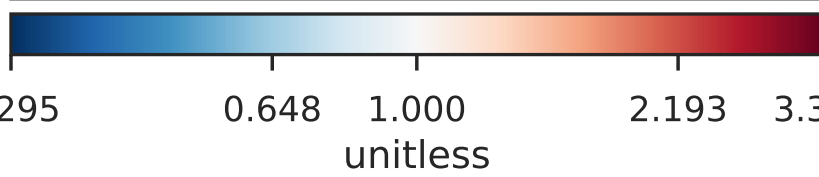
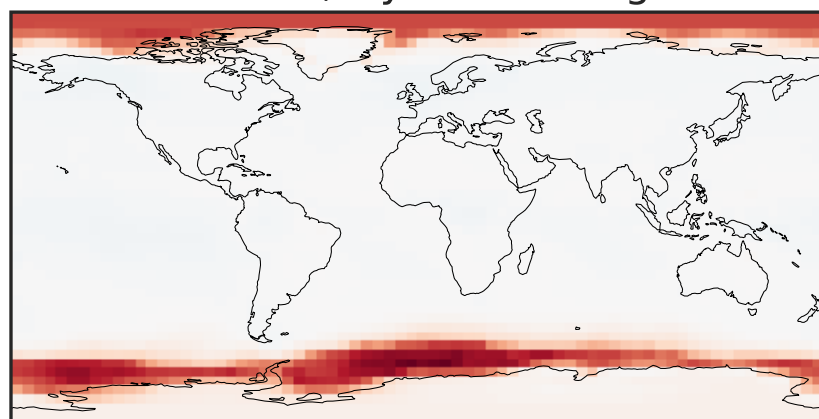
-6 0 6  
ppb  $1e-5$

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



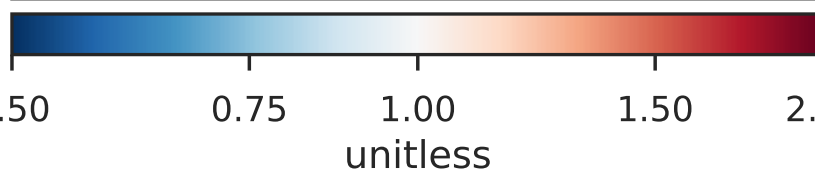
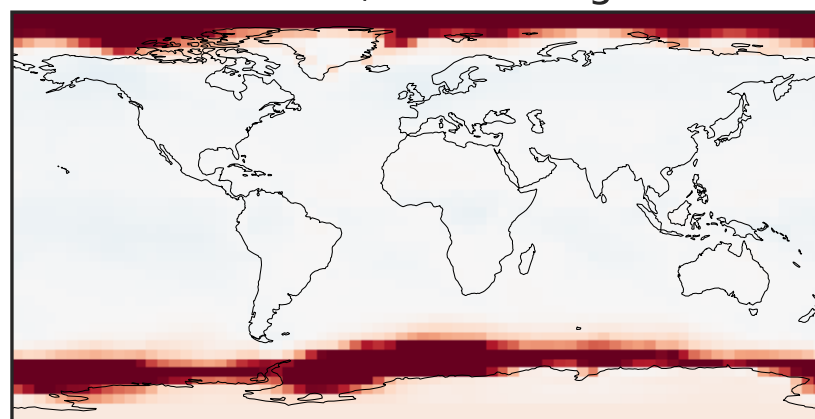
-1.5 0.0 1.5  
ppb  $1e-5$

Ratio  
Dev/Ref, Dynamic Range



0.295 0.648 1.000 2.193 3.385  
unitless

Ratio  
Dev/Ref, Fixed Range

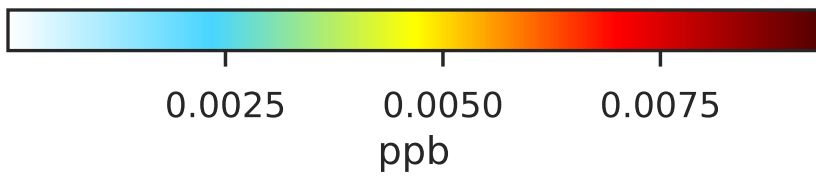
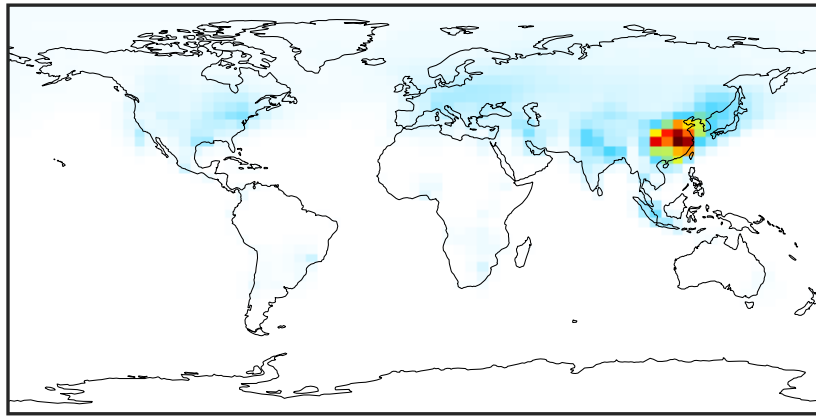


0.50 0.75 1.00 1.50 2.00  
unitless

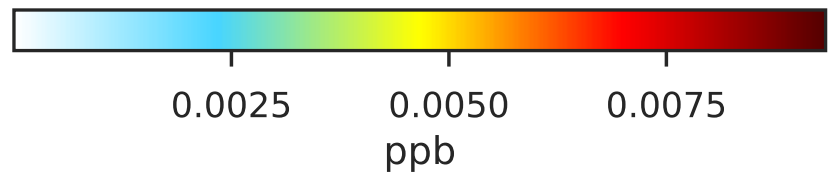
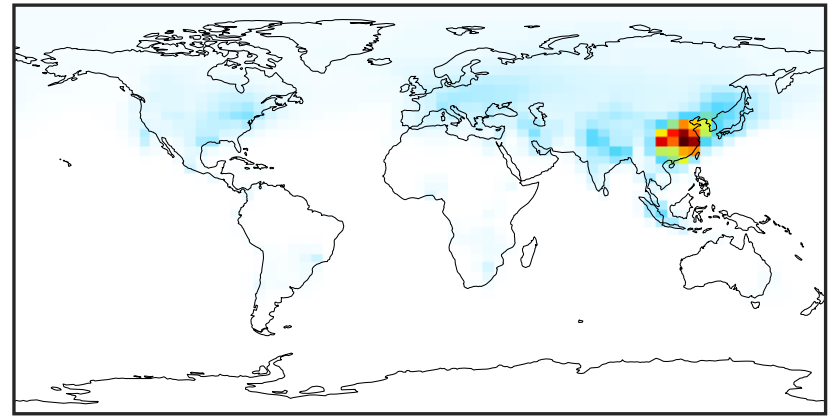


# SpeciesConcVV\_BZPAN (Oct2019)

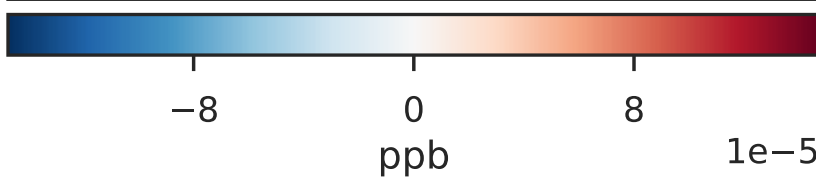
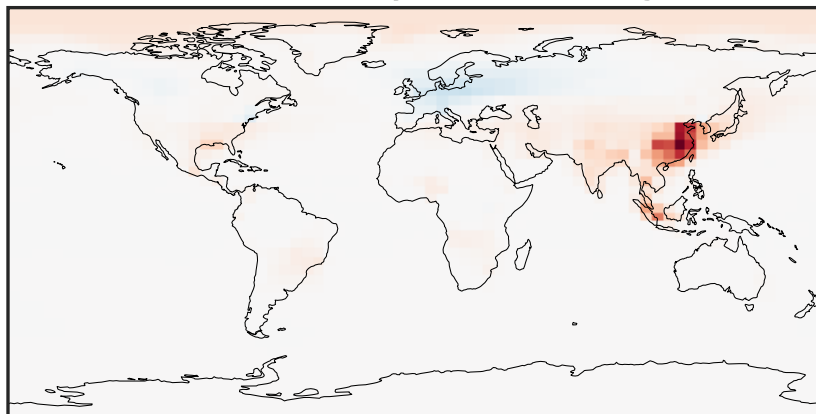
14.2.0-rc.2 (Ref)  
4.0x5.0



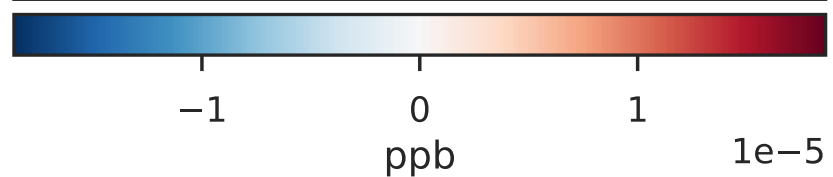
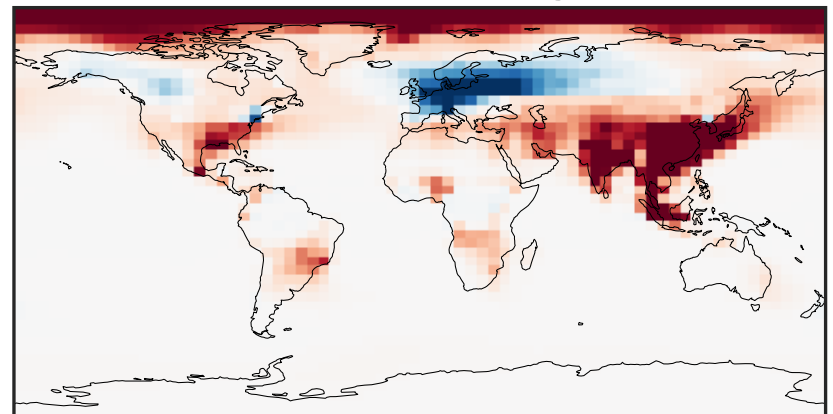
14.3.0-rc.0 (Dev)  
4.0x5.0



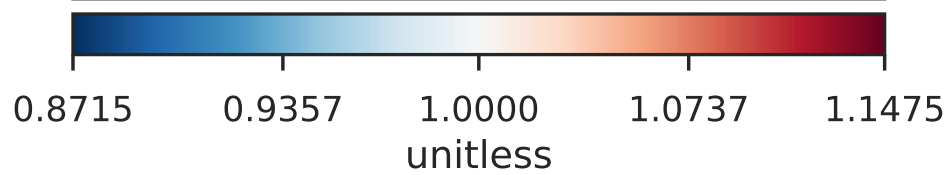
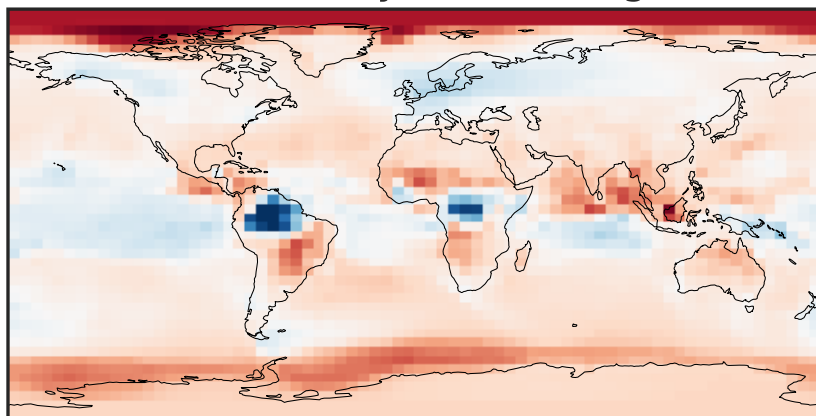
Difference  
Dev - Ref, Dynamic Range



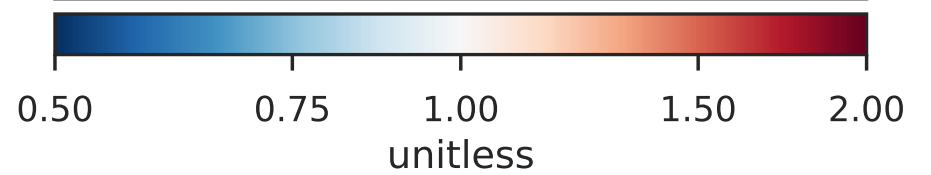
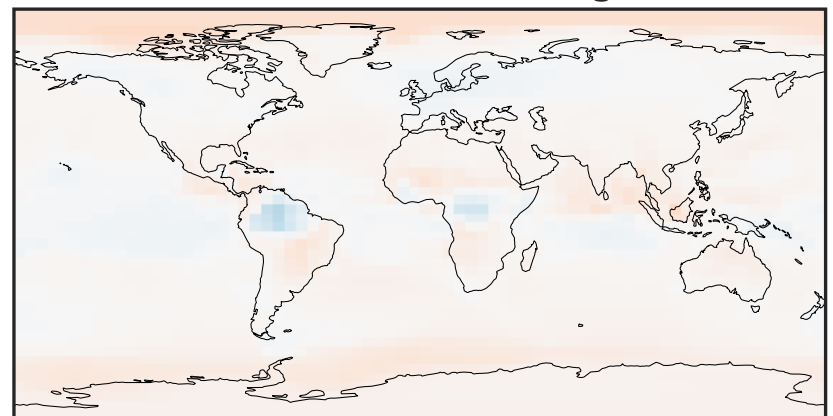
Difference  
Dev - Ref, Restricted Range [5%,95%]



Ratio  
Dev/Ref, Dynamic Range

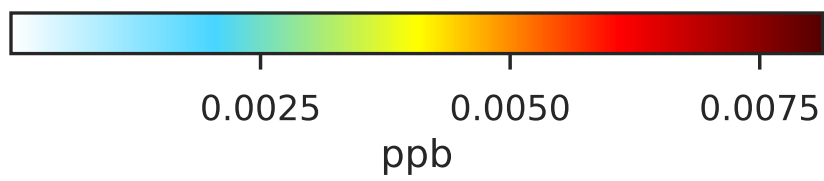
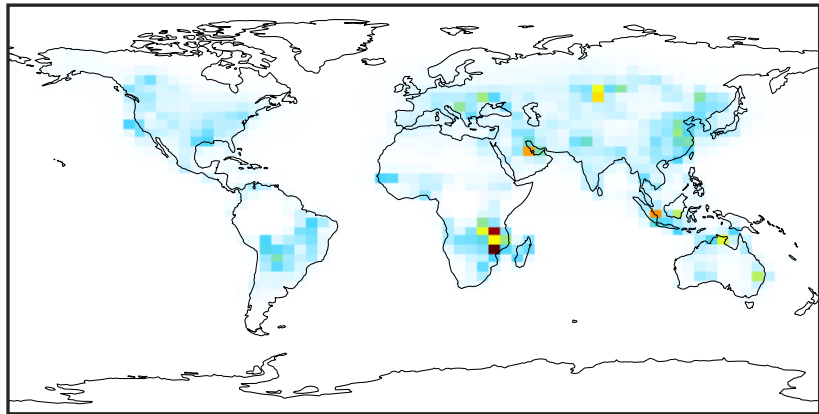


Ratio  
Dev/Ref, Fixed Range

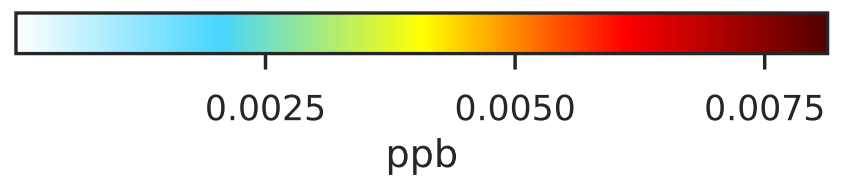
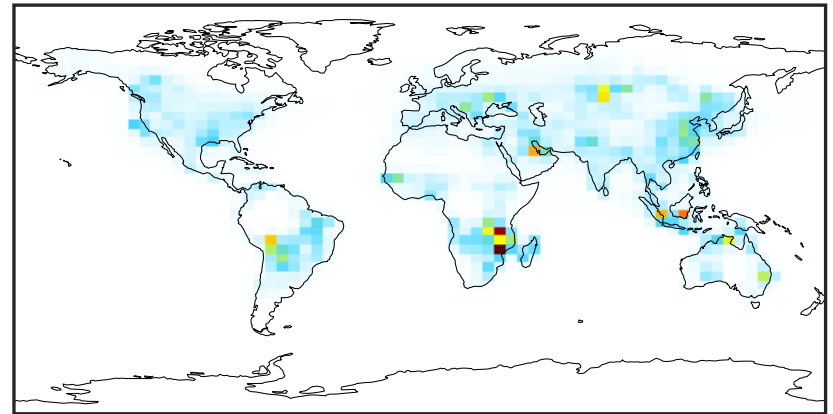


# SpeciesConcVV\_NPHEN (Oct2019)

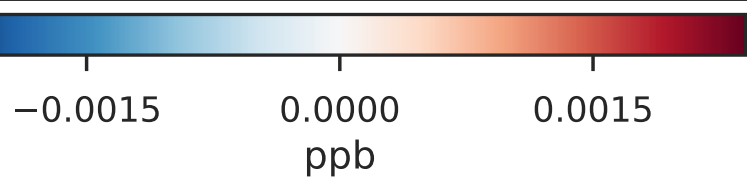
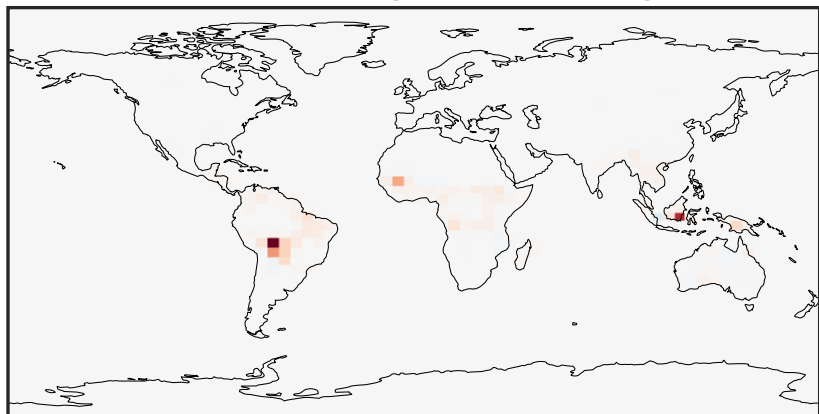
14.2.0-rc.2 (Ref)  
4.0x5.0



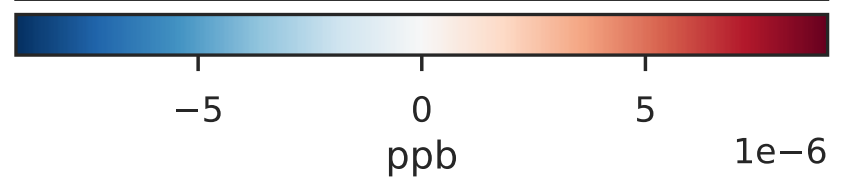
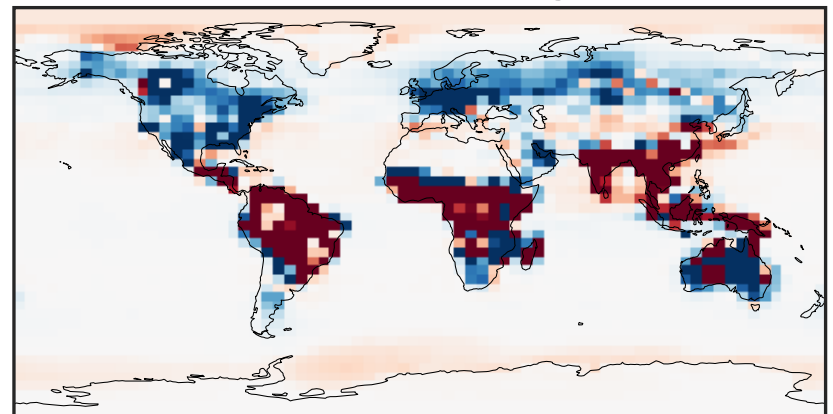
14.3.0-rc.0 (Dev)  
4.0x5.0



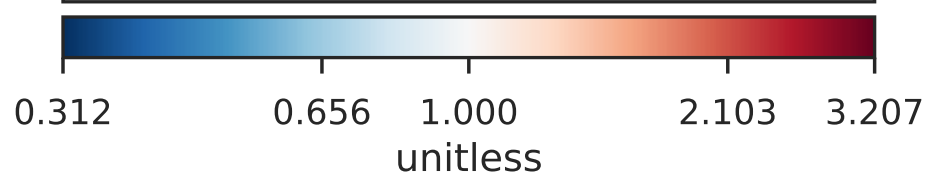
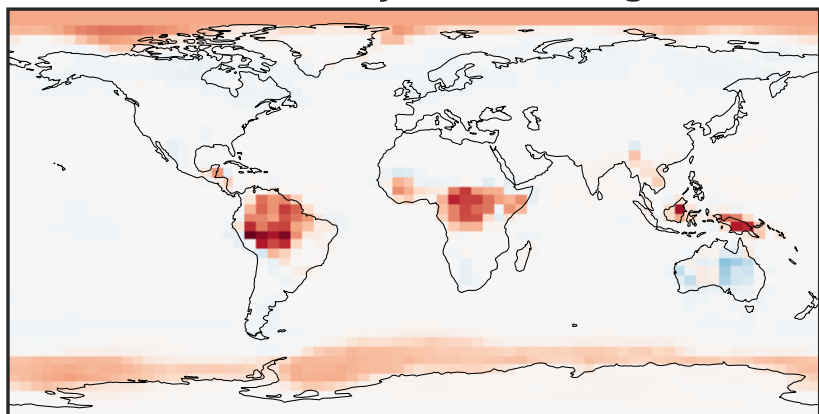
Difference  
Dev - Ref, Dynamic Range



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



Ratio  
Dev/Ref, Dynamic Range



Ratio  
Dev/Ref, Fixed Range

