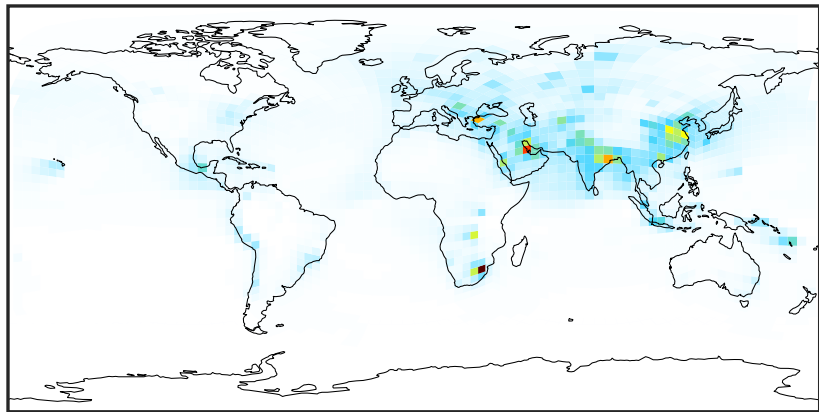


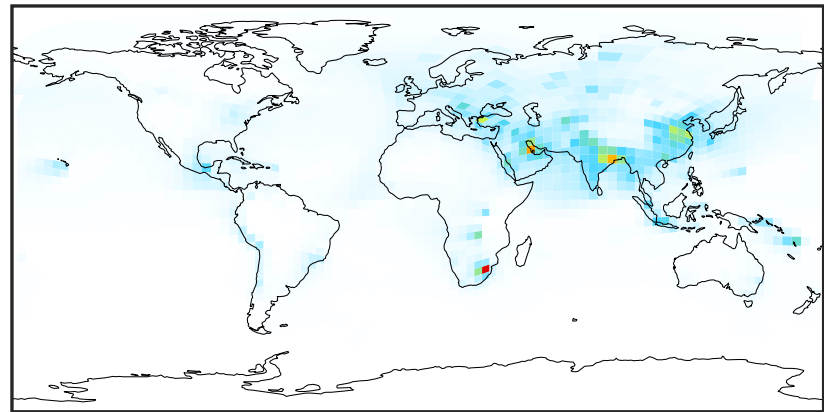
# SpeciesConcVV\_SOx (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



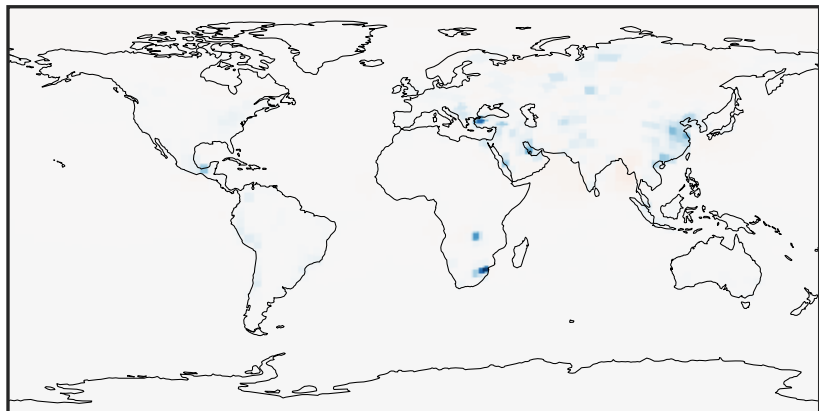
0.02 4.55 9.10 13.65 18.22  
ppb

GCHP\_14.2.0 (Dev)  
c24



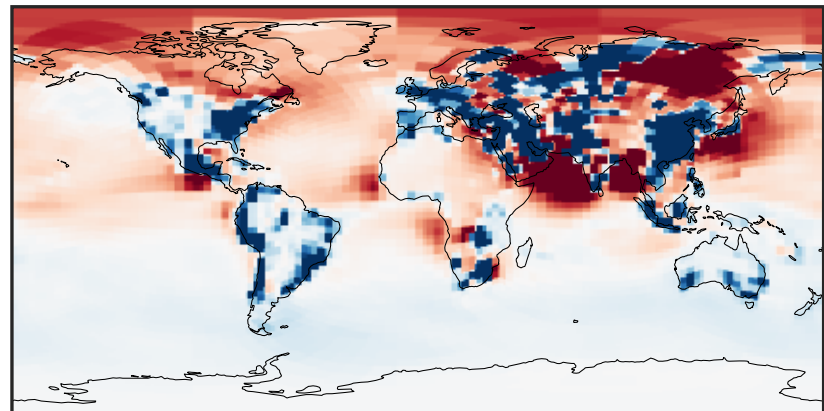
0.02 4.55 9.10 13.65 18.22  
ppb

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



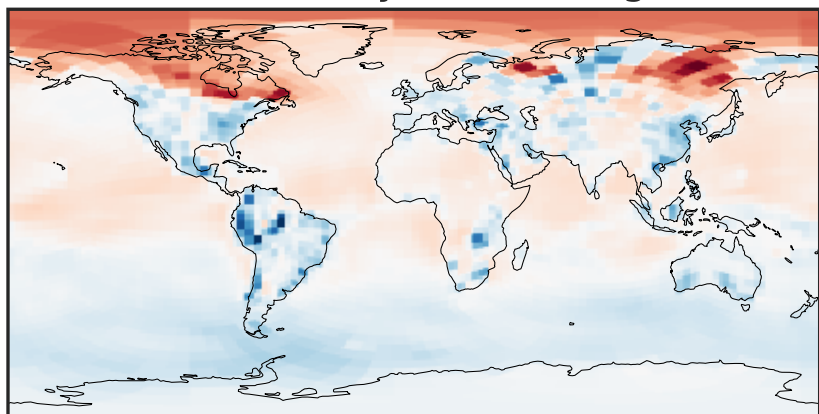
-3.508 -1.754 0.000 1.754 3.508  
ppb

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



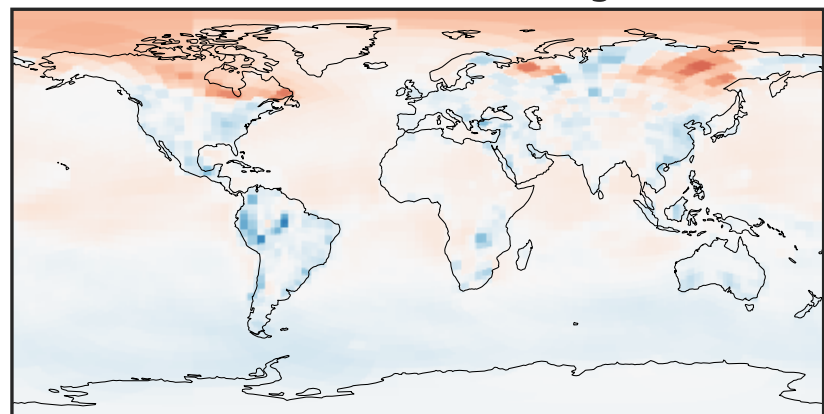
-0.025 0.000 0.025  
ppb

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



0.6706 0.8353 1.000 1.2456 1.4912  
unitless

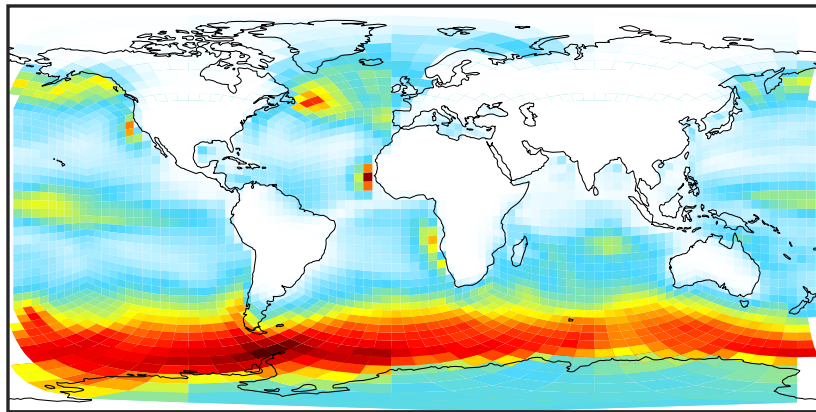
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

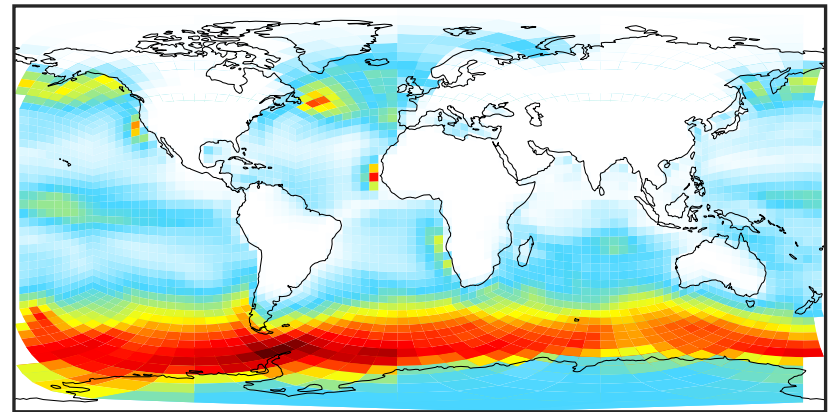
# SpeciesConcVV\_DMS (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



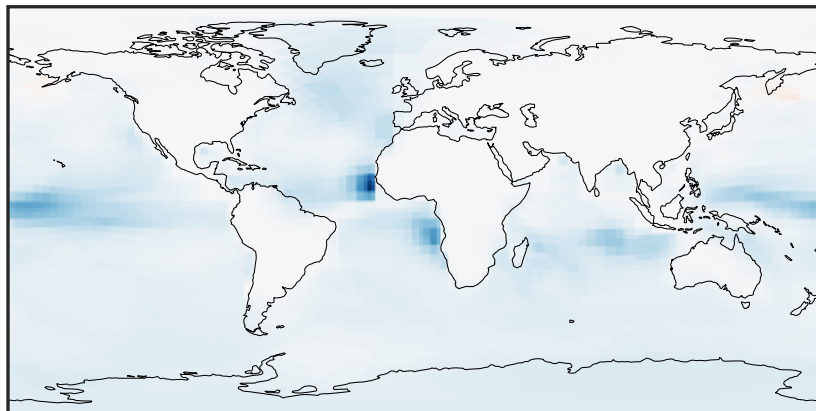
0.0000 0.1001 0.2001 0.3002 0.4003  
ppb

GCHP\_14.2.0 (Dev)  
c24



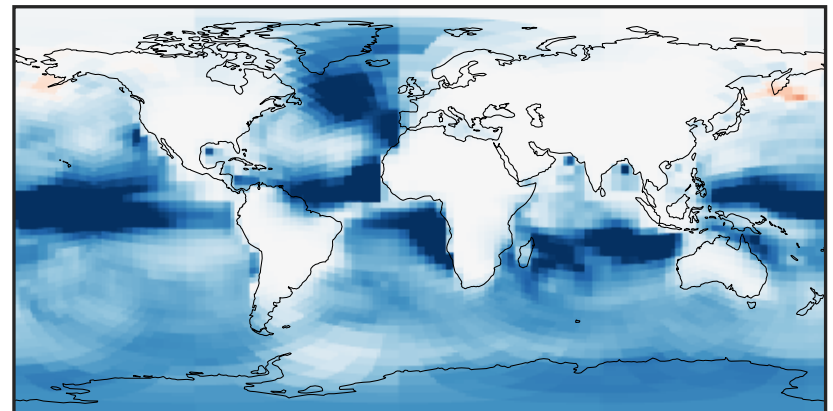
0.0000 0.1001 0.2001 0.3002 0.4003  
ppb

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



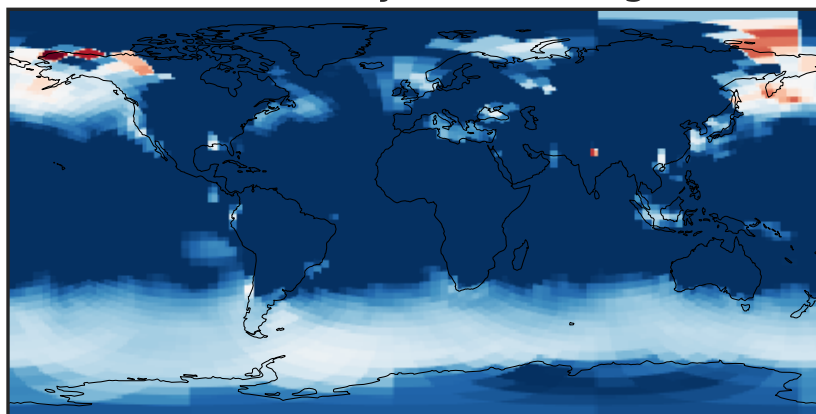
-0.0863 -0.0431 0.0000 0.0431 0.0863  
ppb

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



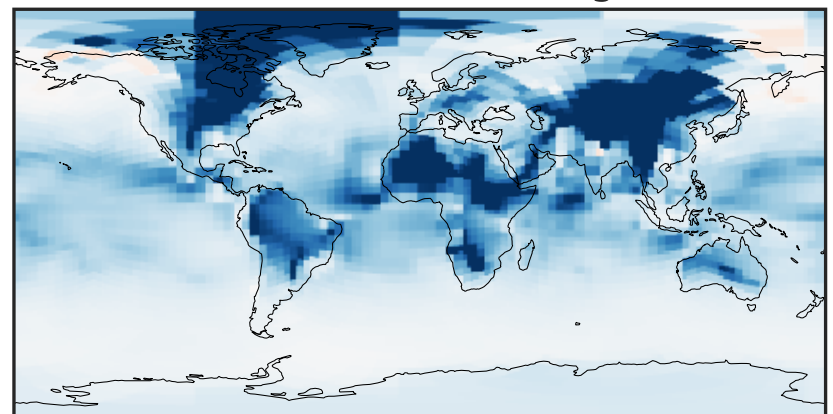
-0.01 0.00 0.01  
ppb

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



0.8874 0.9437 1.0000 1.0635 1.1269  
unitless

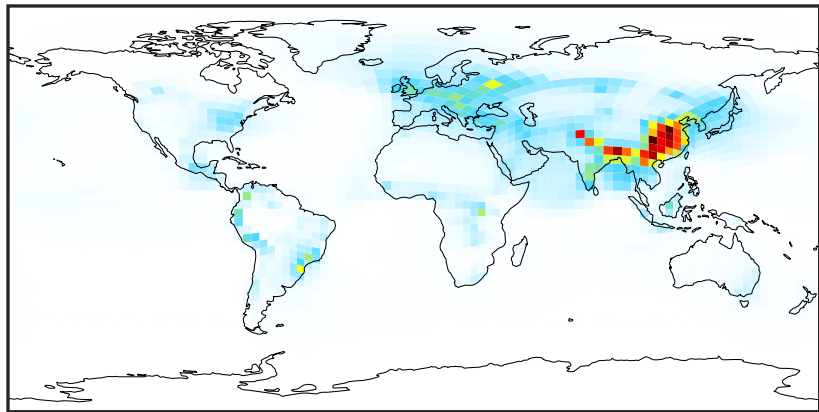
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

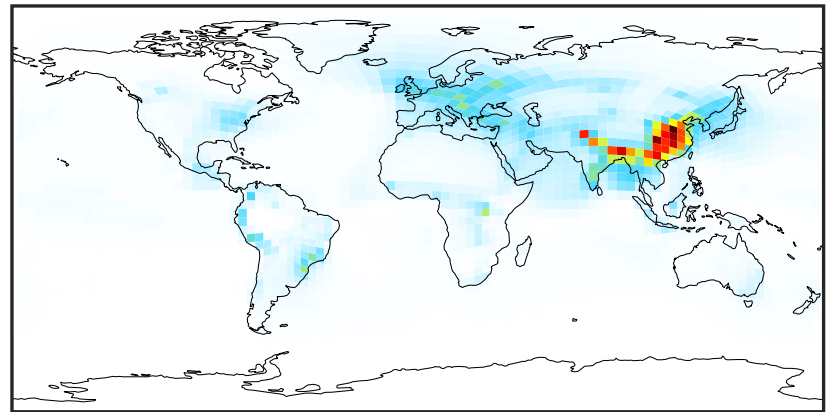
# SpeciesConcVV\_HMS (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



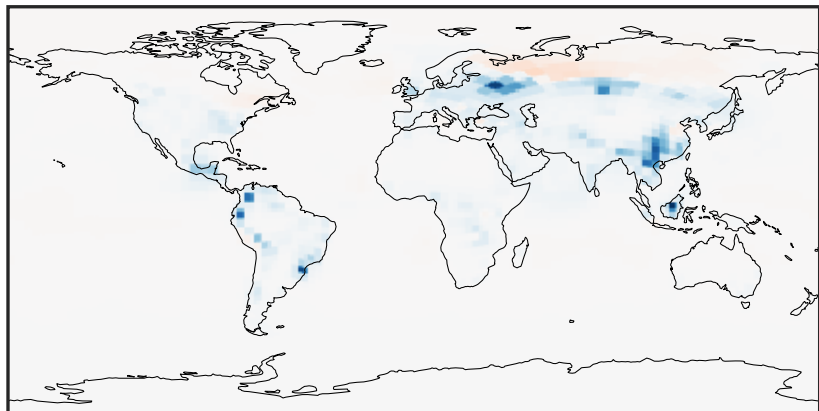
0.0005 0.1625 0.3249 0.4874 0.6504  
ppb

GCHP\_14.2.0 (Dev)  
c24



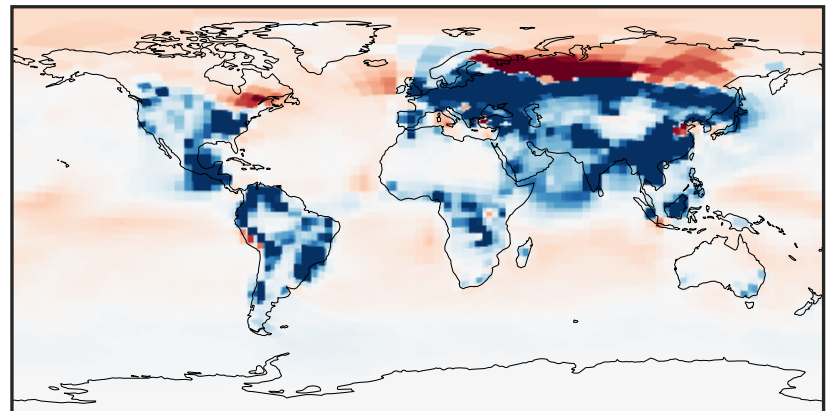
0.0005 0.1625 0.3249 0.4874 0.6504  
ppb

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



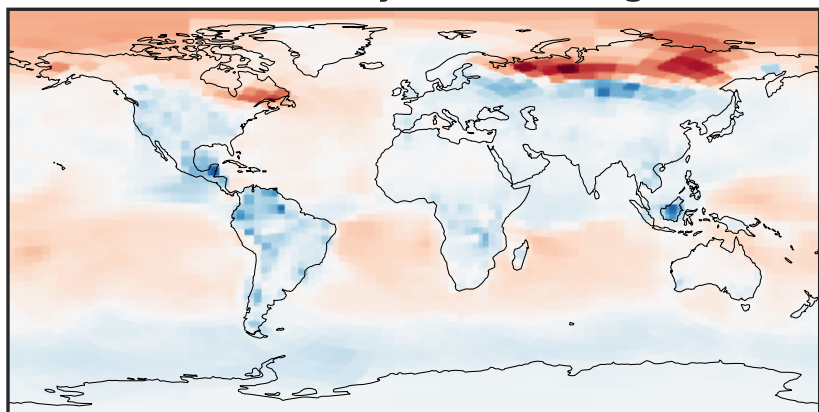
-0.0891 -0.0445 0.0000 0.0445 0.0891  
ppb

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



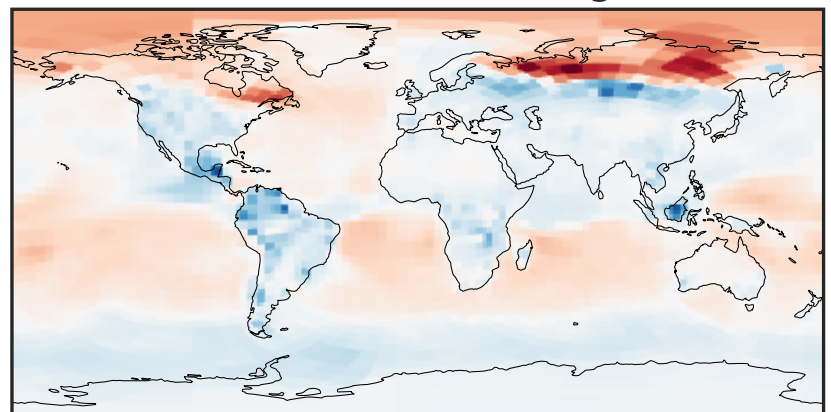
-0.003 0.000 0.003  
ppb

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



0.485 0.743 1.000 1.531 2.061  
unitless

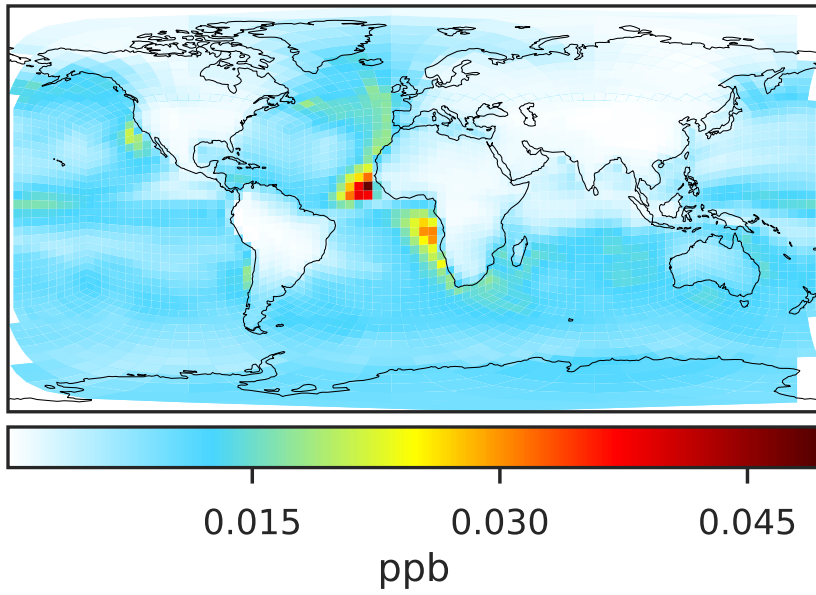
Ratio (1x1.25)  
Dev/Ref, Fixed Range



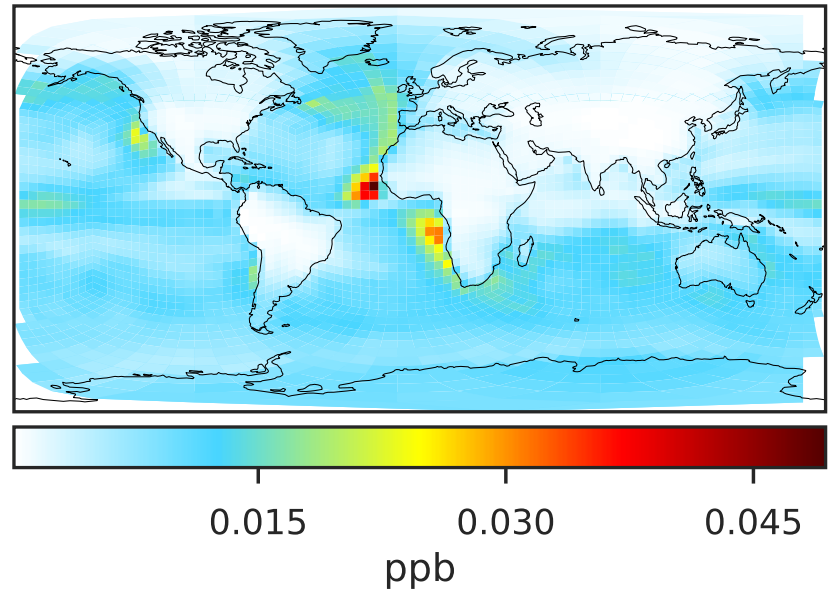
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVW\_MSA (Apr2019)

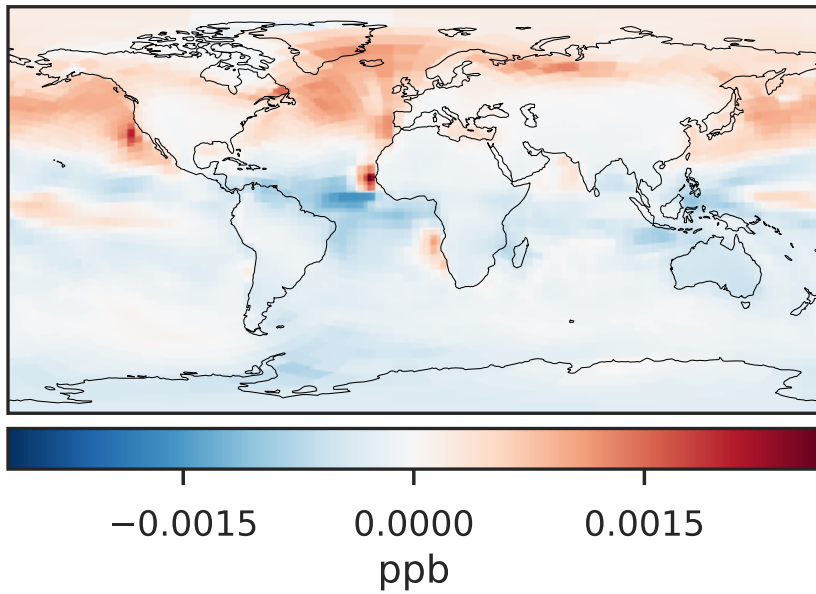
GCHP\_14.0.0 (Ref)  
c24



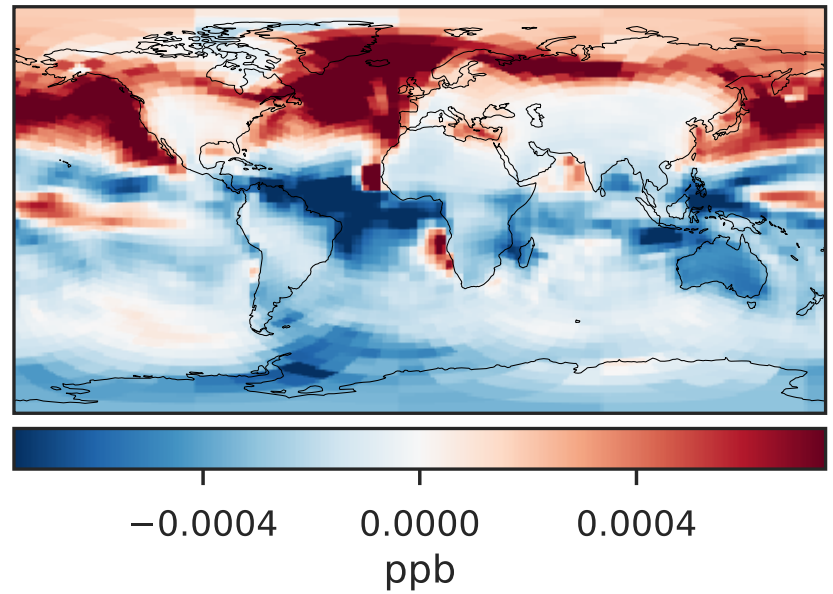
GCHP\_14.2.0 (Dev)  
c24



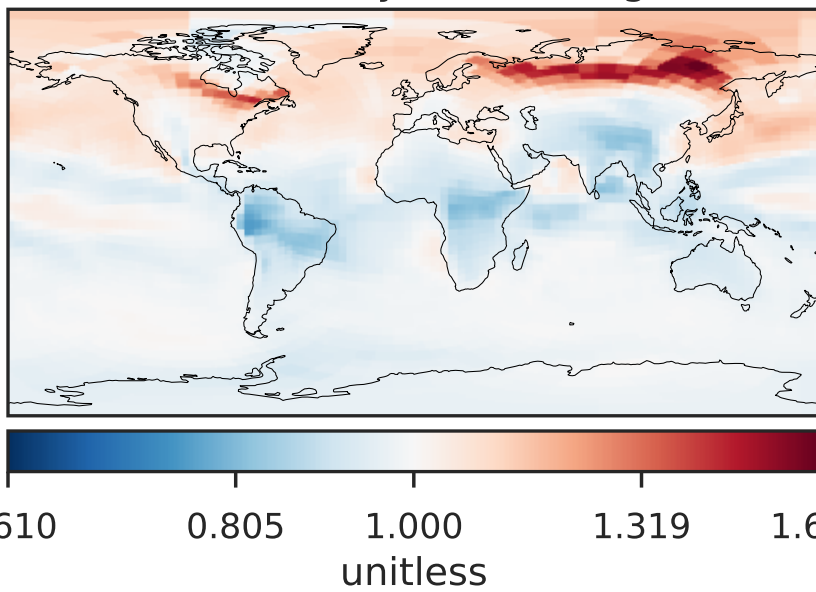
Difference (1x1.25)  
Dev - Ref, Dynamic Range



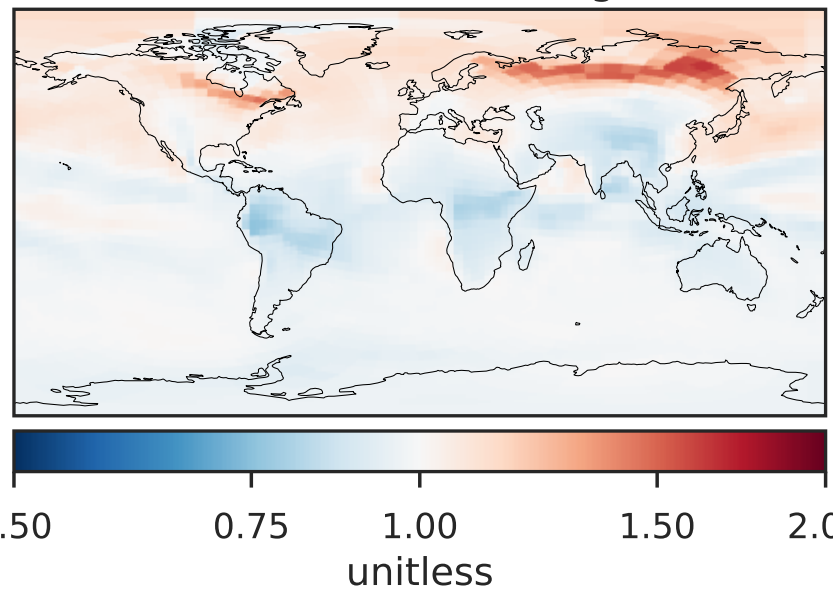
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

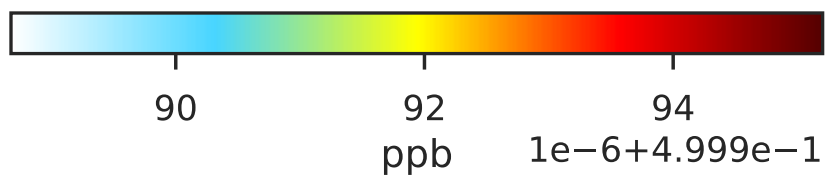
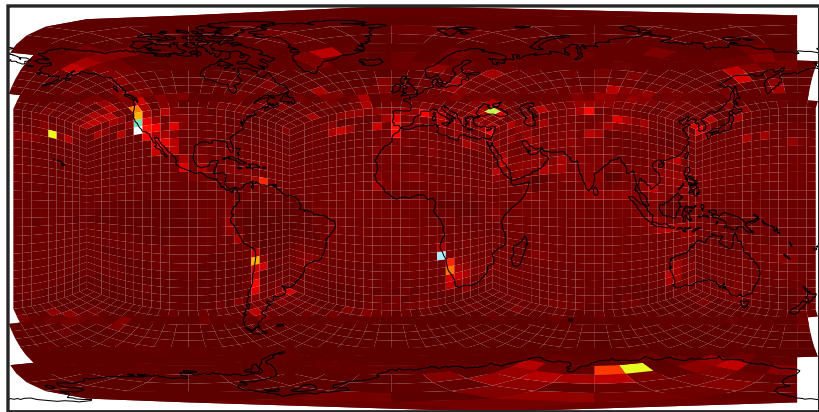


Ratio (1x1.25)  
Dev/Ref, Fixed Range

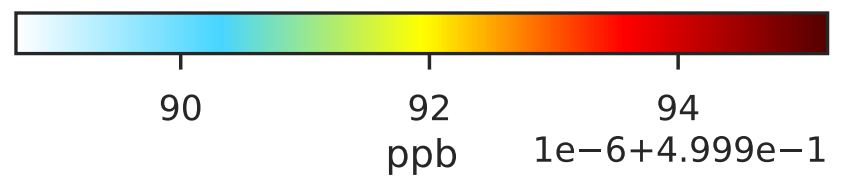
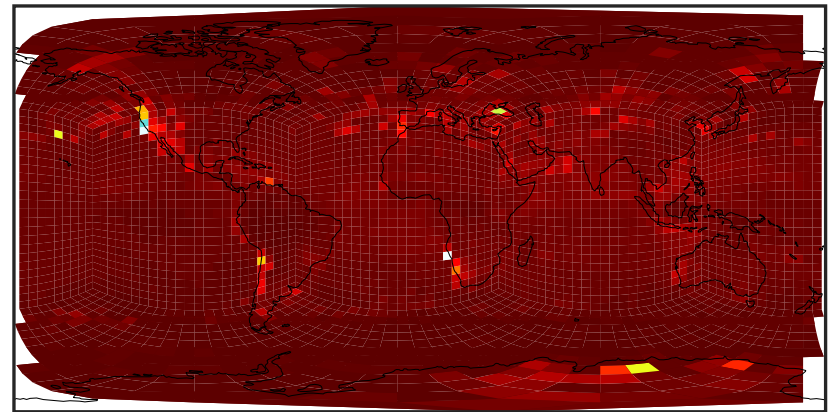


# SpeciesConcVV\_OCS (Apr2019)

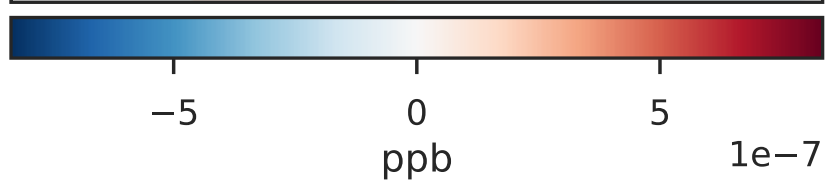
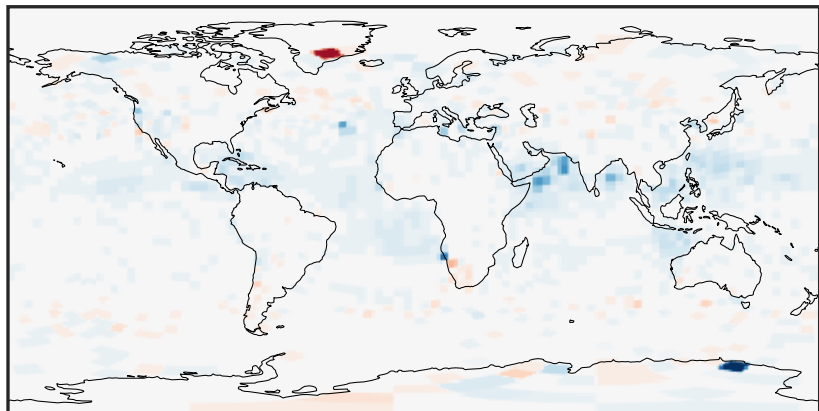
GCHP\_14.0.0 (Ref)  
c24



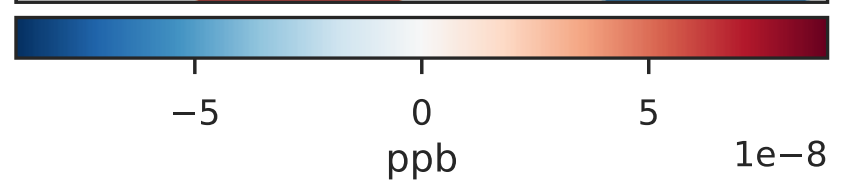
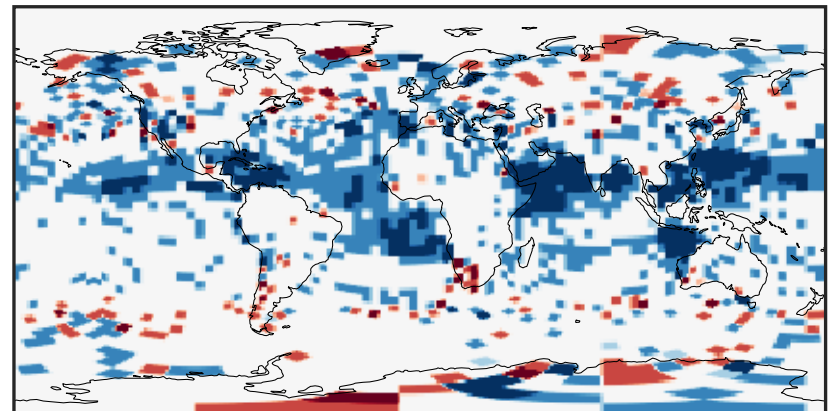
GCHP\_14.2.0 (Dev)  
c24



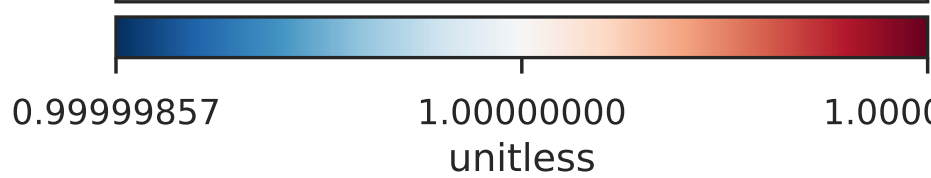
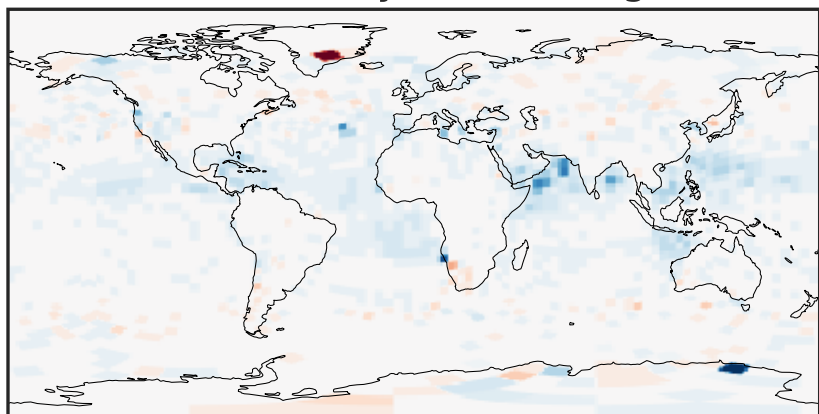
Difference (1x1.25)  
Dev - Ref, Dynamic Range



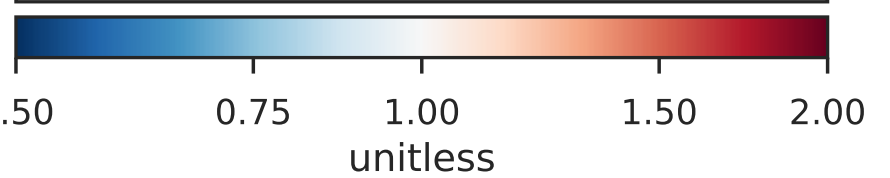
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

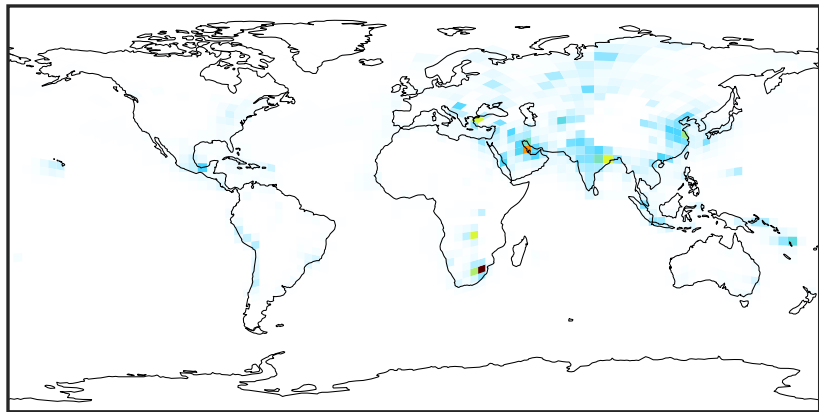


Ratio (1x1.25)  
Dev/Ref, Fixed Range



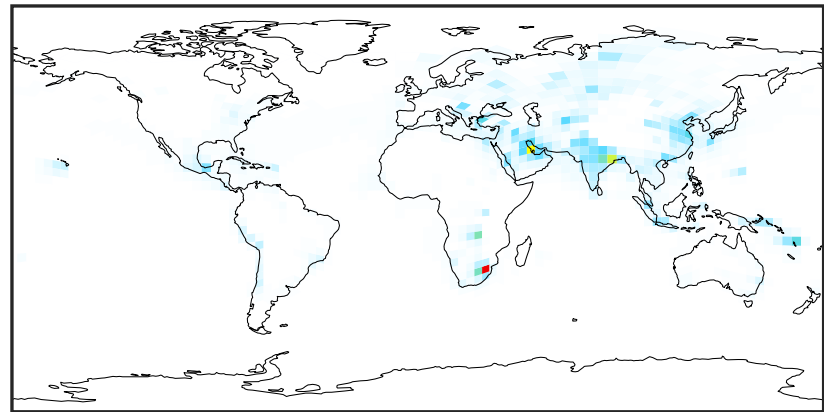
# SpeciesConcVV\_SO2 (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



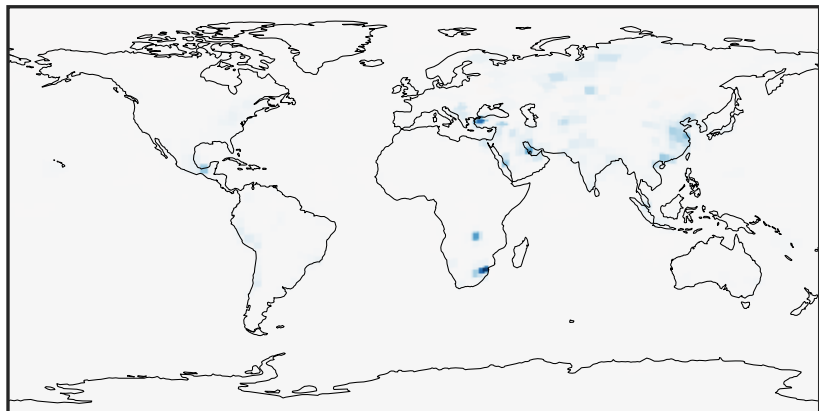
0.00 3.99 7.97 11.96 15.94  
ppb

GCHP\_14.2.0 (Dev)  
c24



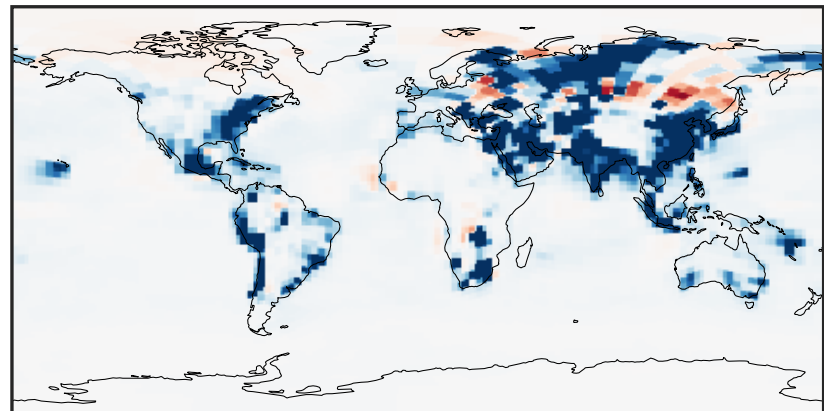
0.00 3.99 7.97 11.96 15.94  
ppb

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



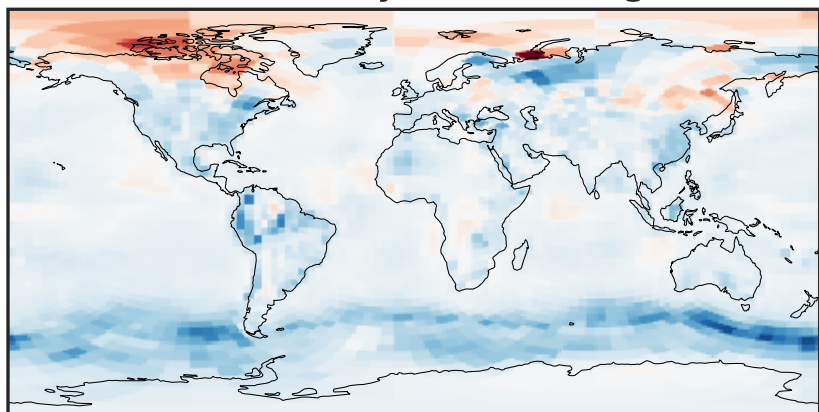
-3.512 -1.756 0.000 1.756 3.512  
ppb

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



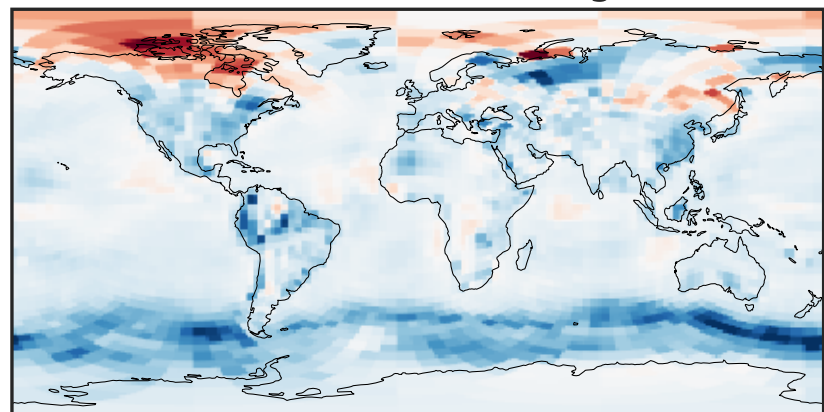
-0.0613 -0.0307 0.0000 0.0307 0.0613  
ppb

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



0.385 0.692 1.000 1.799 2.598  
unitless

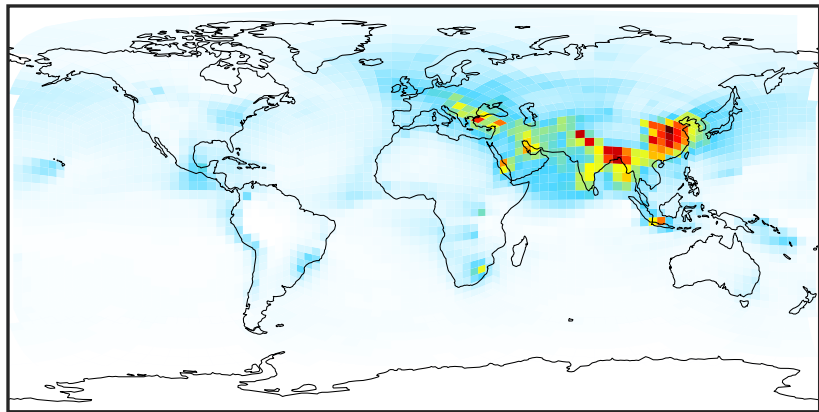
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

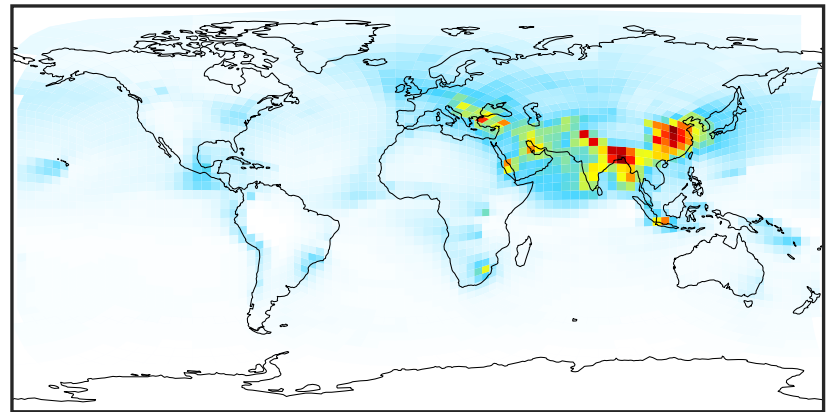
# SpeciesConcVV\_SO4 (Apr2019)

GCHP\_14.0.0 (Ref)  
c24



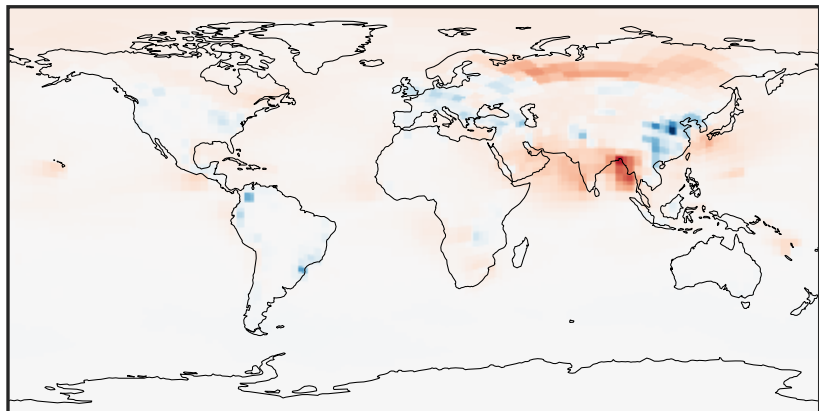
0.018 1.214 2.428 3.643 4.875  
ppb

GCHP\_14.2.0 (Dev)  
c24



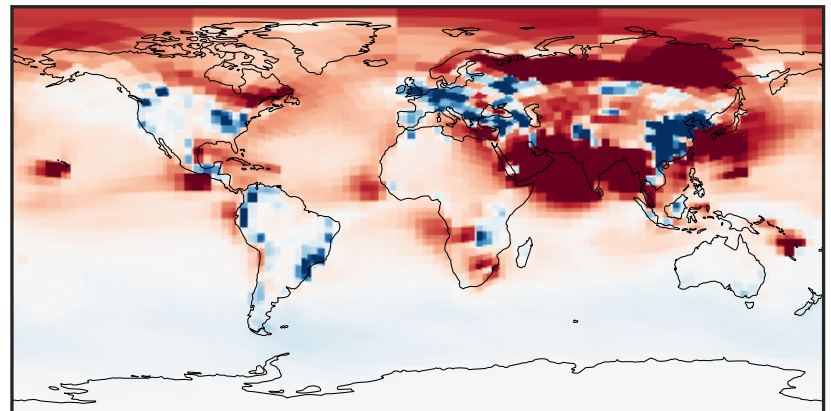
0.018 1.214 2.428 3.643 4.875  
ppb

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



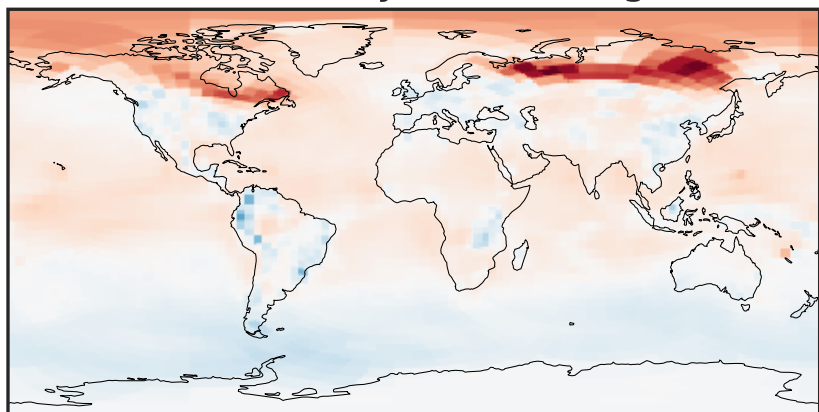
-0.4079 -0.2039 0.0000 0.2039 0.4079  
ppb

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



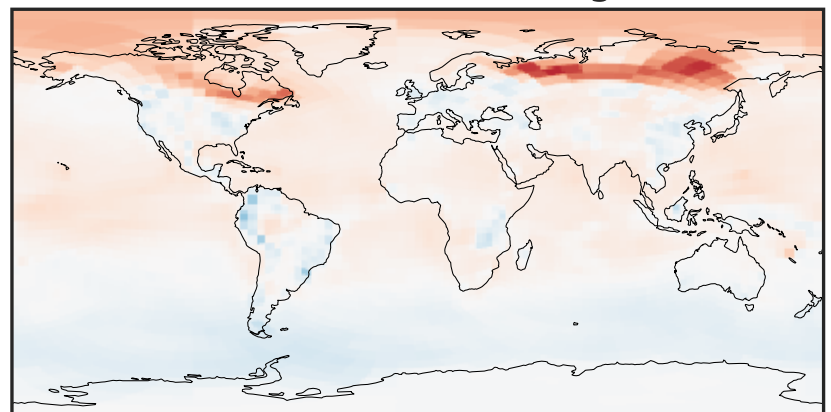
-0.025 0.000 0.025  
ppb

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



0.593 0.796 1.000 1.344 1.687  
unitless

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



0.50 0.75 1.00 1.50 2.00  
unitless