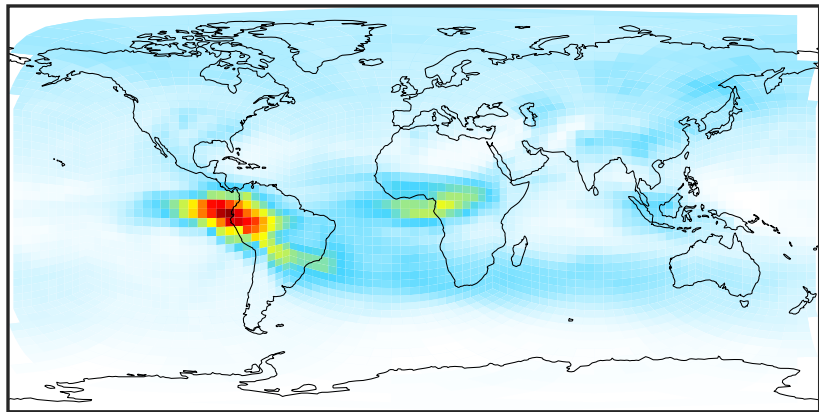


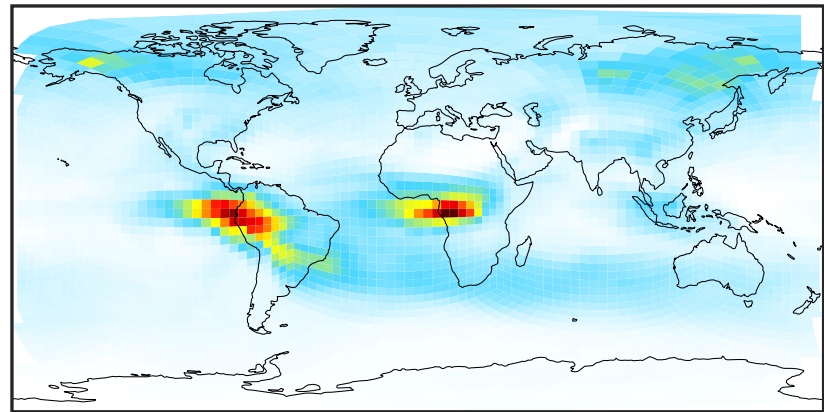
# SpeciesConcVV\_ACTA (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



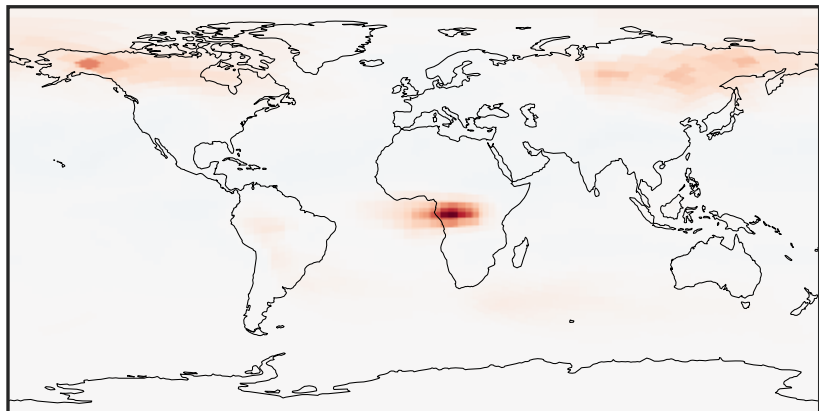
0.0064 0.0775 0.1549 0.2324 0.3162  
ppb

GCHP\_14.2.0 (Dev)  
c24



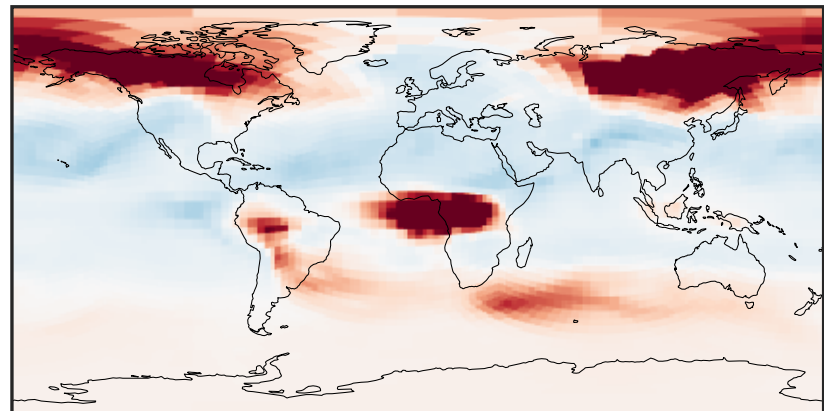
0.0064 0.0775 0.1549 0.2324 0.3162  
ppb

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



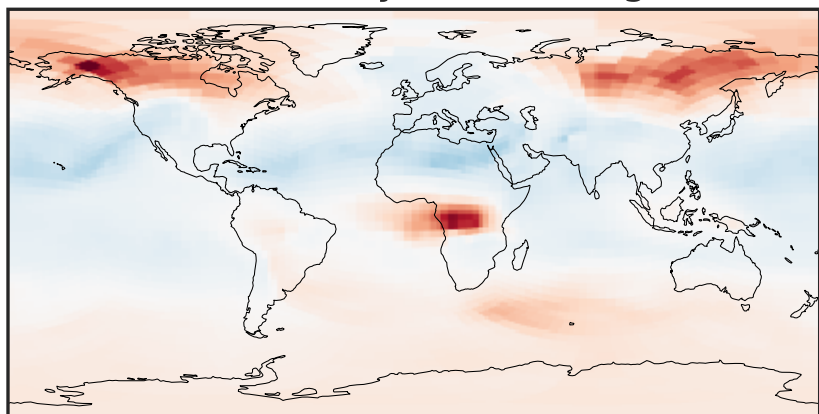
-0.2046 -0.1023 0.0000 0.1023 0.2046  
ppb

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



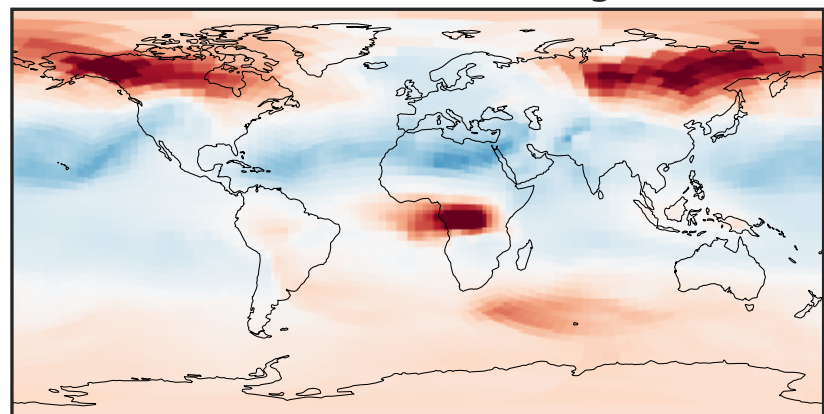
-0.01 0.00 0.01  
ppb

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



0.310 0.655 1.000 2.114 3.227  
unitless

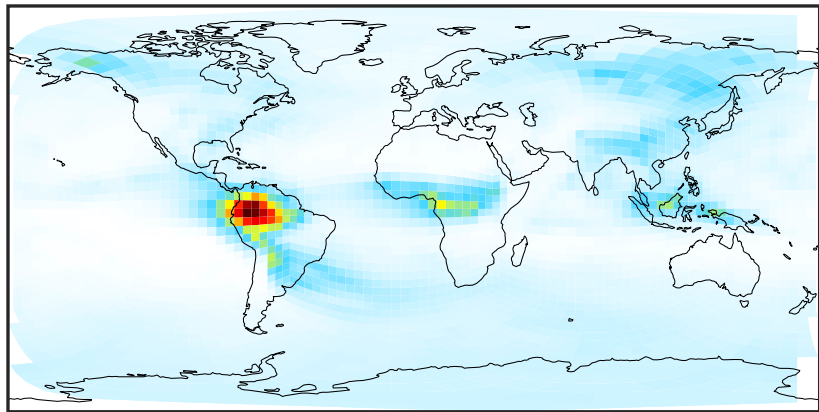
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

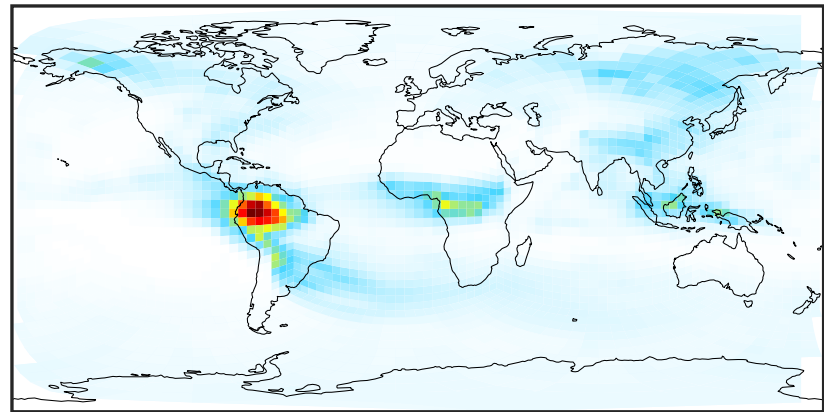
# SpeciesConcVV\_ALD2 (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



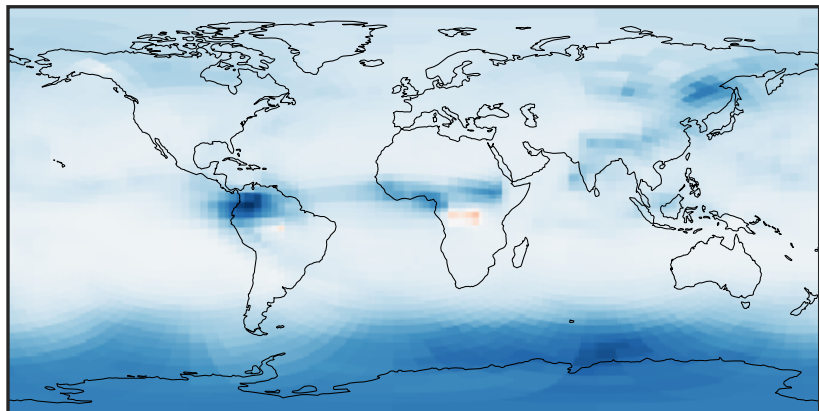
0.0014 0.0561 0.1121 0.1682 0.2257  
ppb

GCHP\_14.2.0 (Dev)  
c24



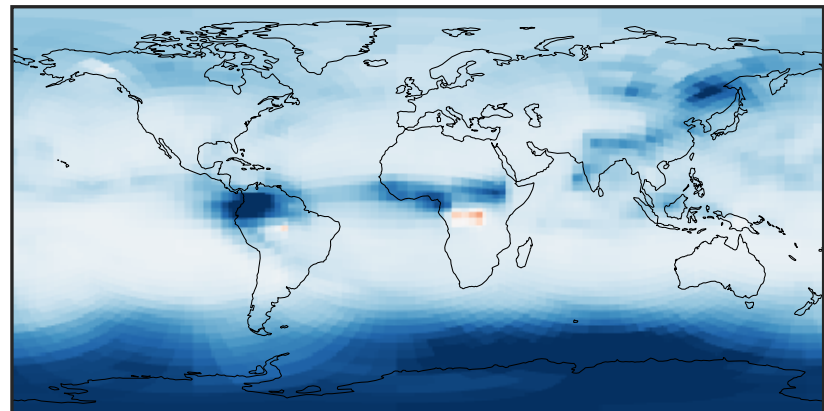
0.0014 0.0561 0.1121 0.1682 0.2257  
ppb

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



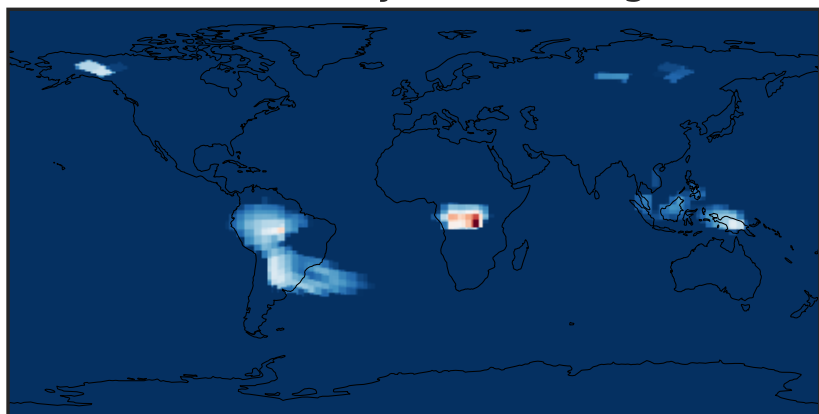
-0.008 0.000 0.008  
ppb

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



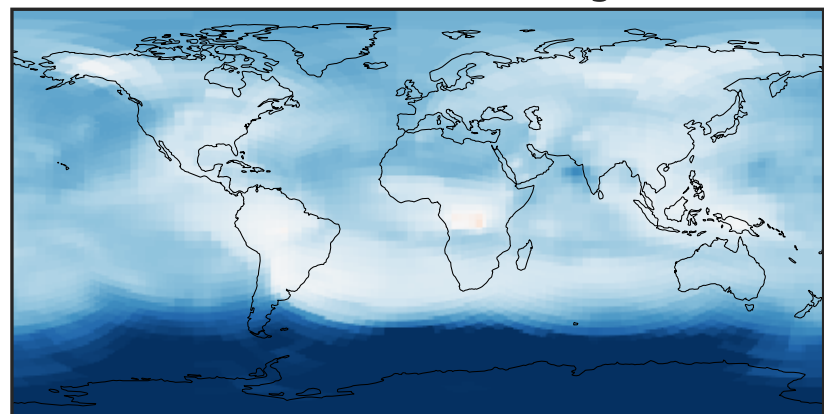
-0.005 0.000 0.005  
ppb

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



0.9238 0.9619 1.0000 1.0412 1.0825  
unitless

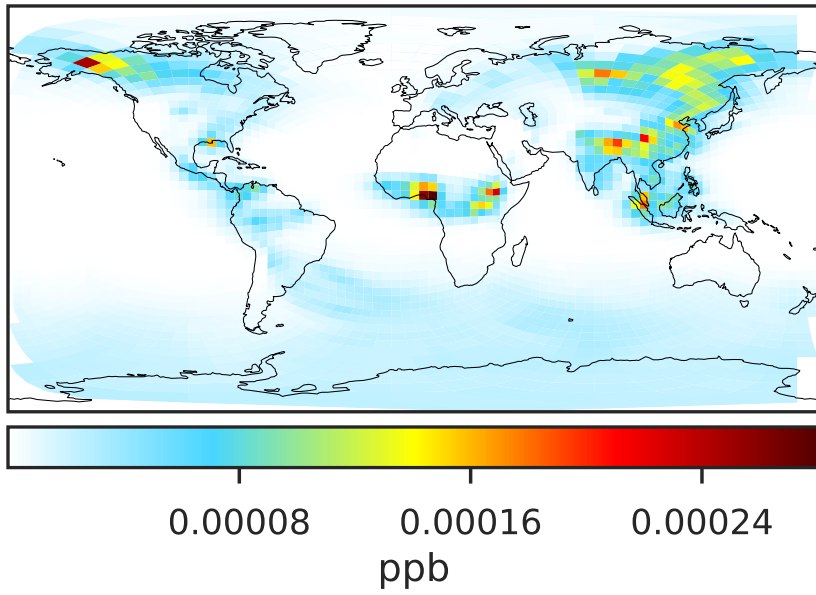
Ratio (1x1.25)  
Dev/Ref, Fixed Range



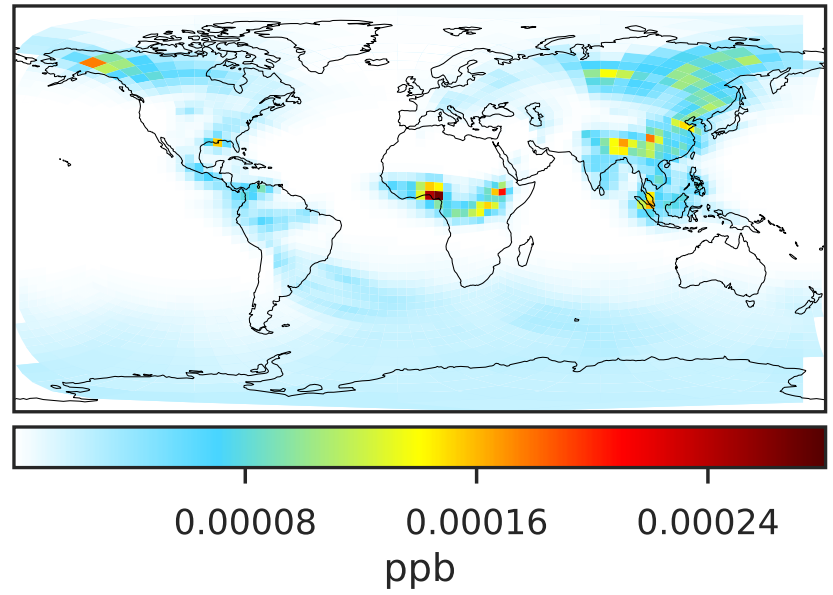
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_BALD (Jul2019)

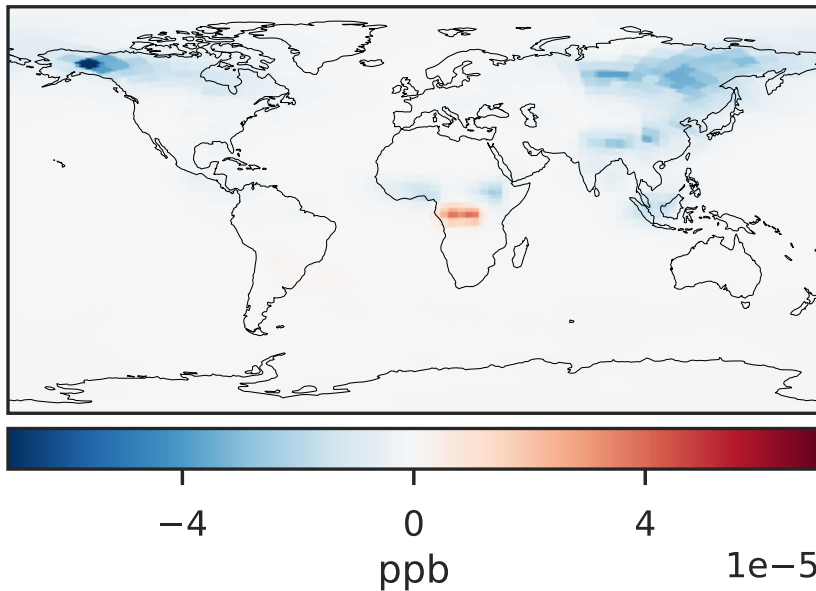
GCHP\_14.0.0 (Ref)  
c24



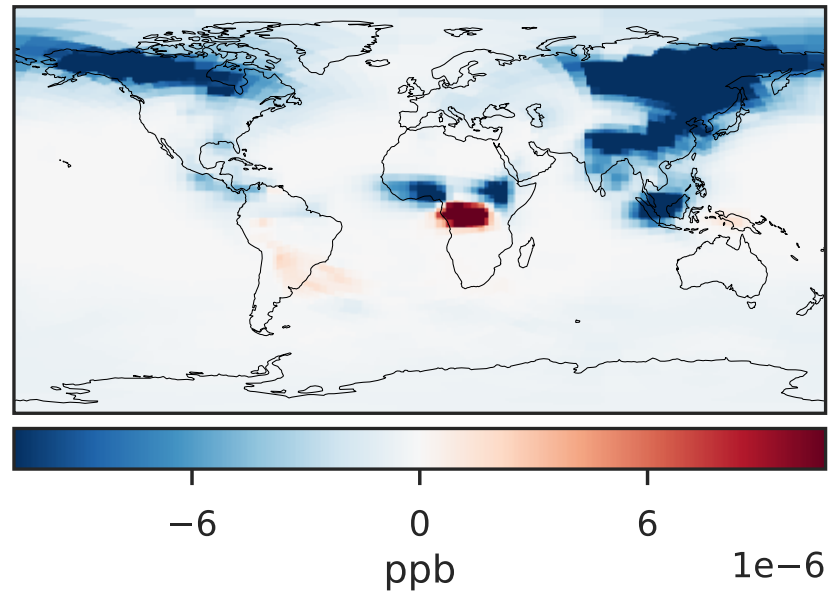
GCHP\_14.2.0 (Dev)  
c24



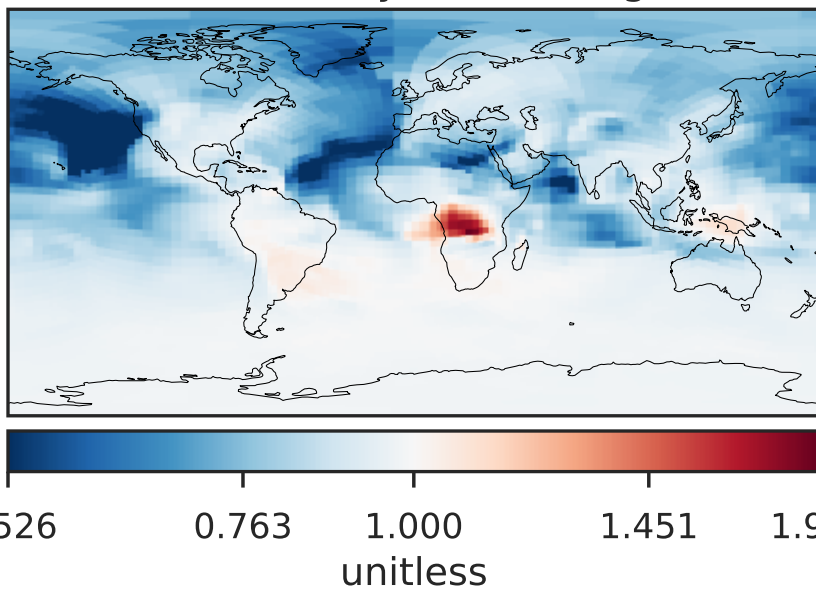
Difference (1x1.25)  
Dev - Ref, Dynamic Range



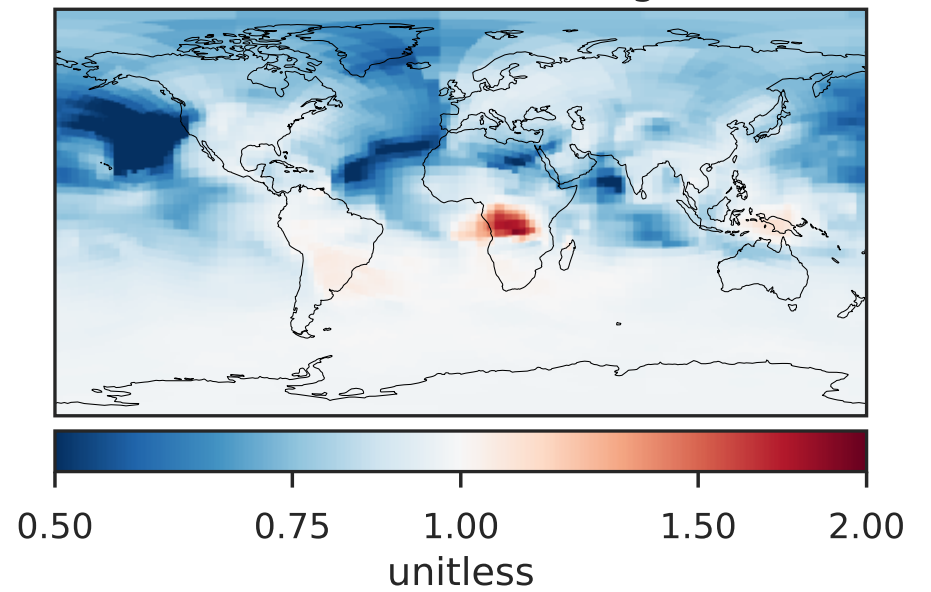
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

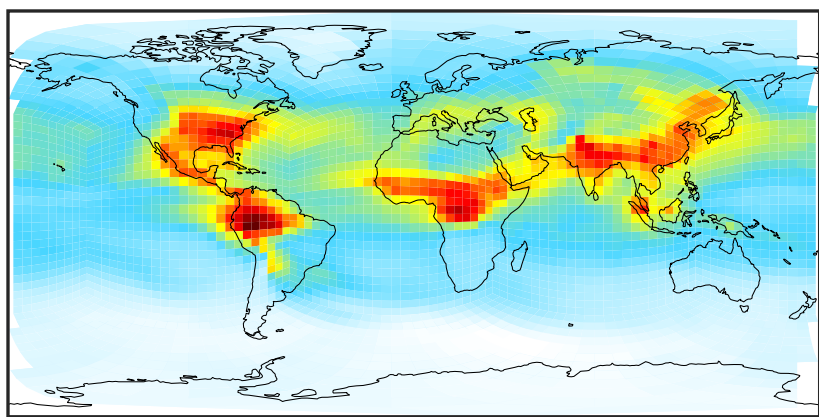


Ratio (1x1.25)  
Dev/Ref, Fixed Range



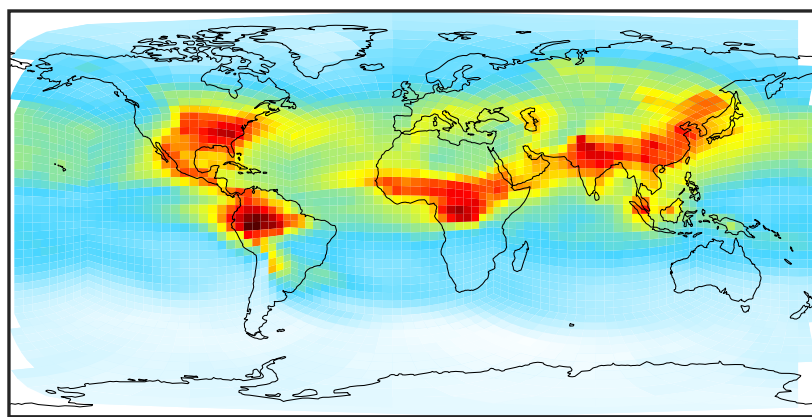
# SpeciesConcVV\_CH2O (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



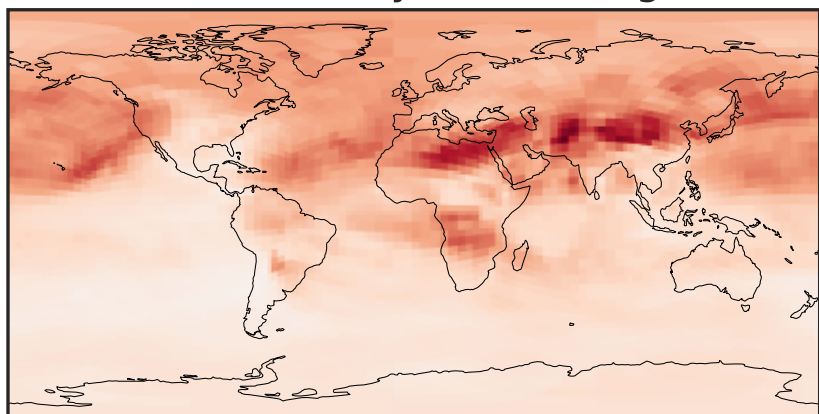
0.0368 0.0987 0.1974 0.2961 0.4317  
ppb

GCHP\_14.2.0 (Dev)  
c24



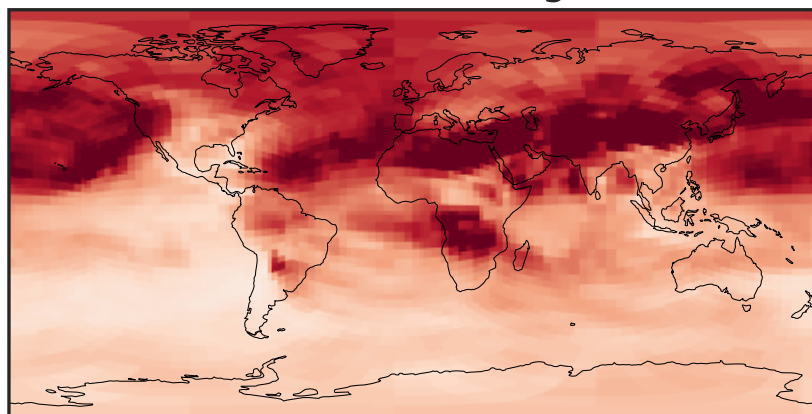
0.0368 0.0987 0.1974 0.2961 0.4317  
ppb

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



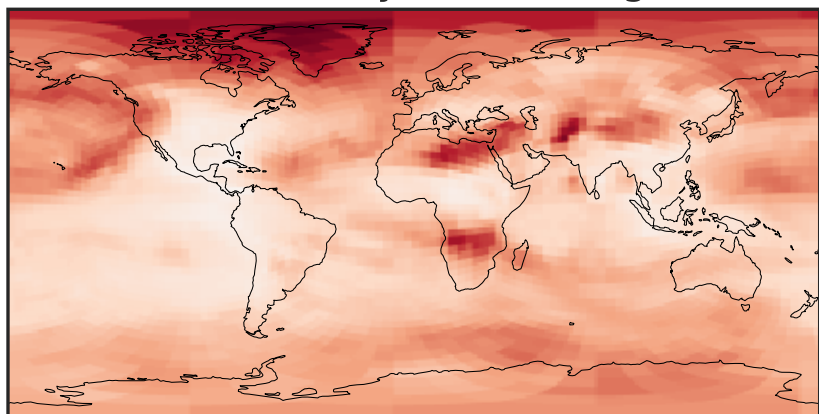
-0.02 0.00 0.02  
ppb

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



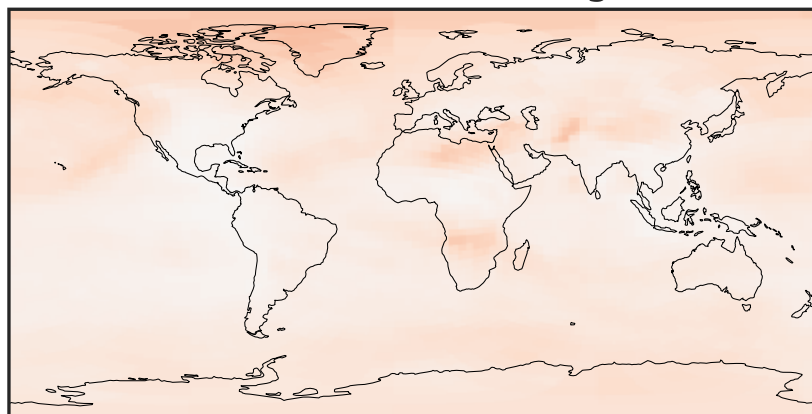
-0.01 0.00 0.01  
ppb

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



0.8075 0.9038 1.0000 1.1192 1.2384  
unitless

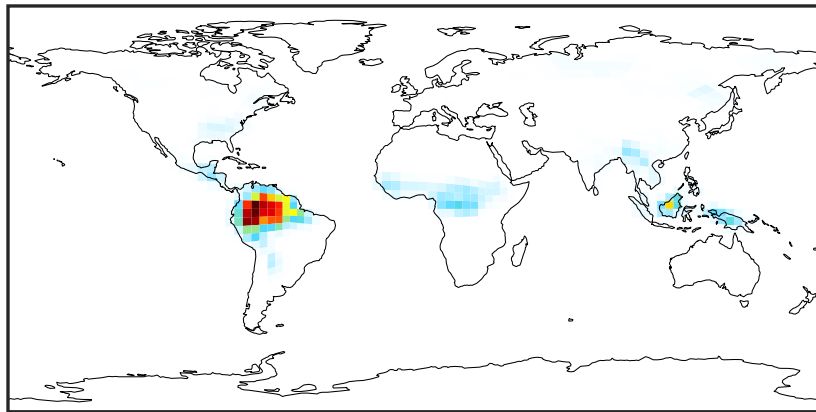
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

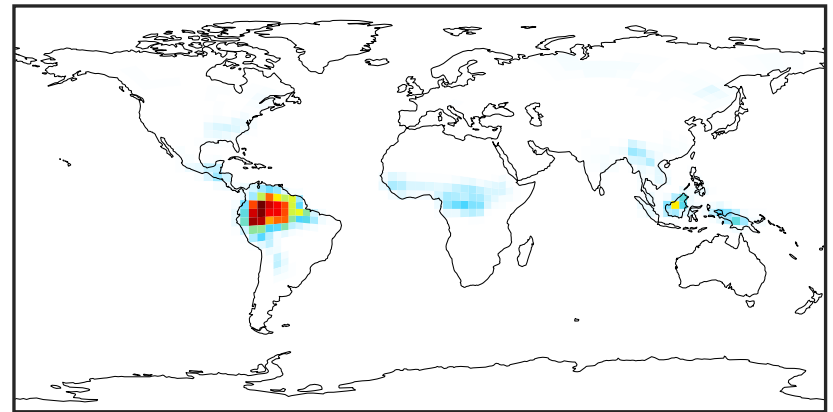
# SpeciesConcVV\_HPALDs (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



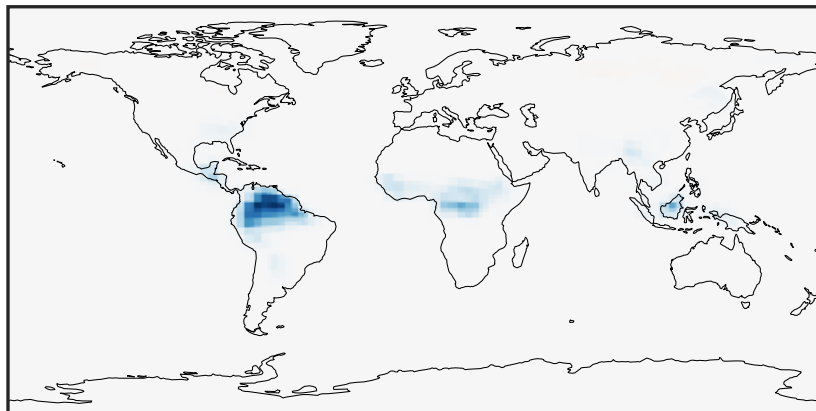
0.000 0.002 0.004 0.006  
ppb

GCHP\_14.2.0 (Dev)  
c24



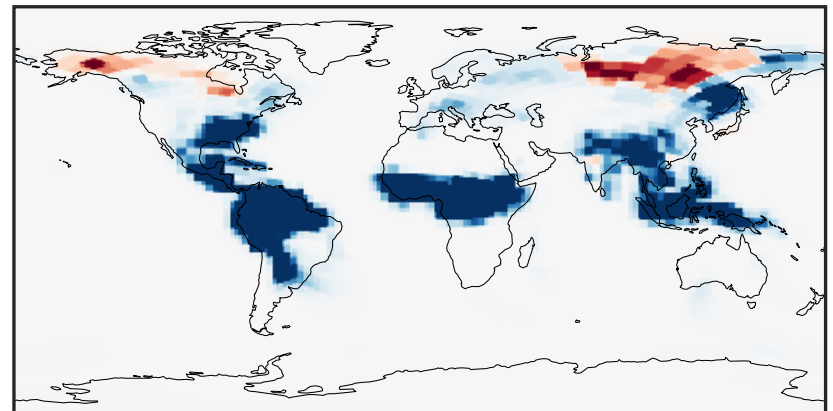
0.000 0.002 0.004 0.006  
ppb

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



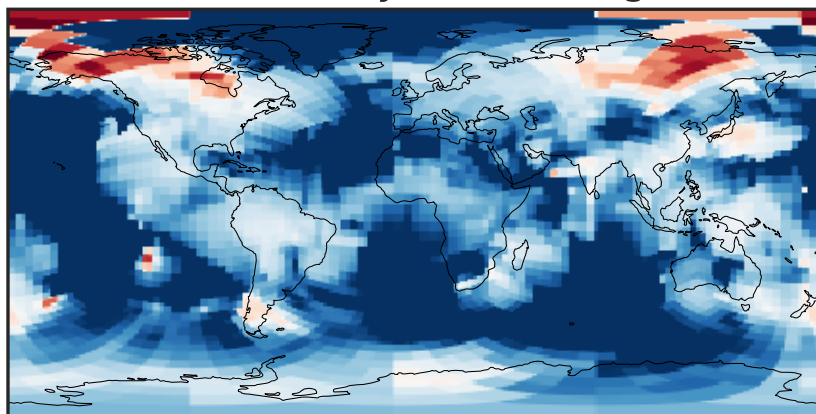
-0.00015 0.00000 0.00015  
ppb

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



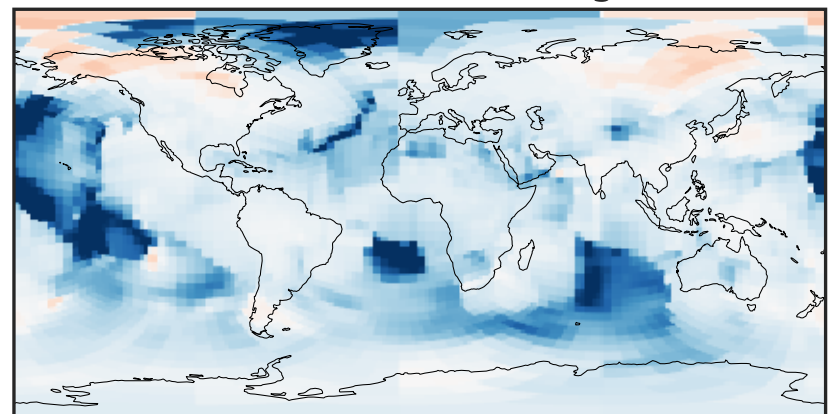
-2 0 2  
ppb 1e-6

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



0.8254 0.9127 1.0000 1.1057 1.2115  
unitless

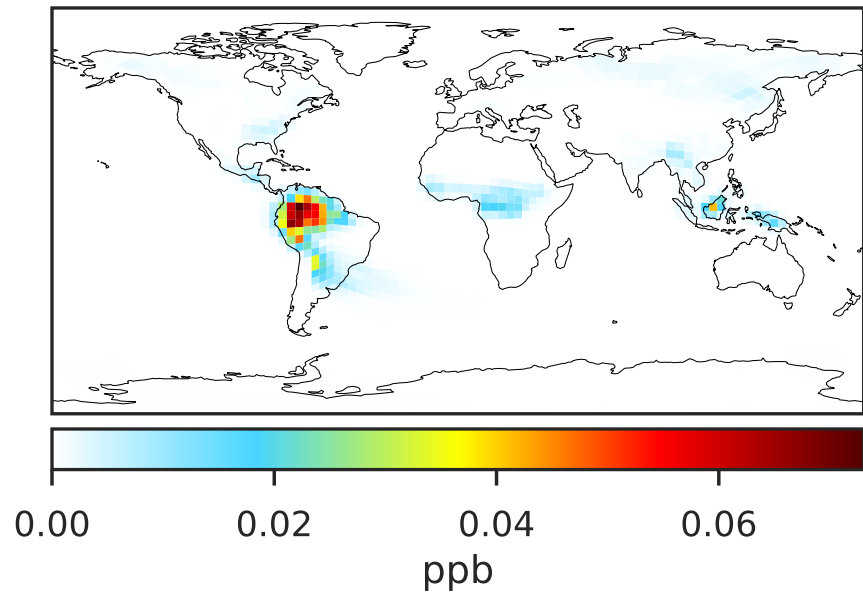
Ratio (1x1.25)  
Dev/Ref, Fixed Range



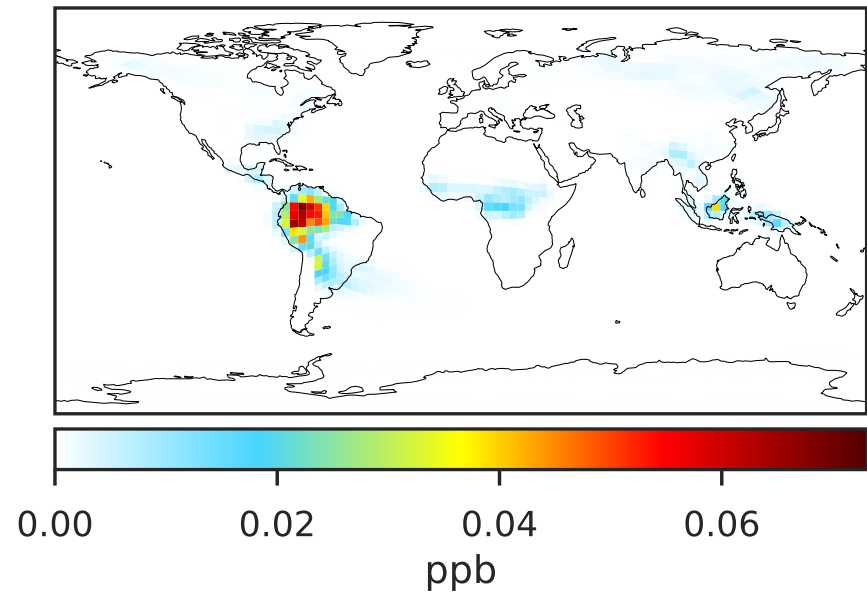
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_MACR (Jul2019)

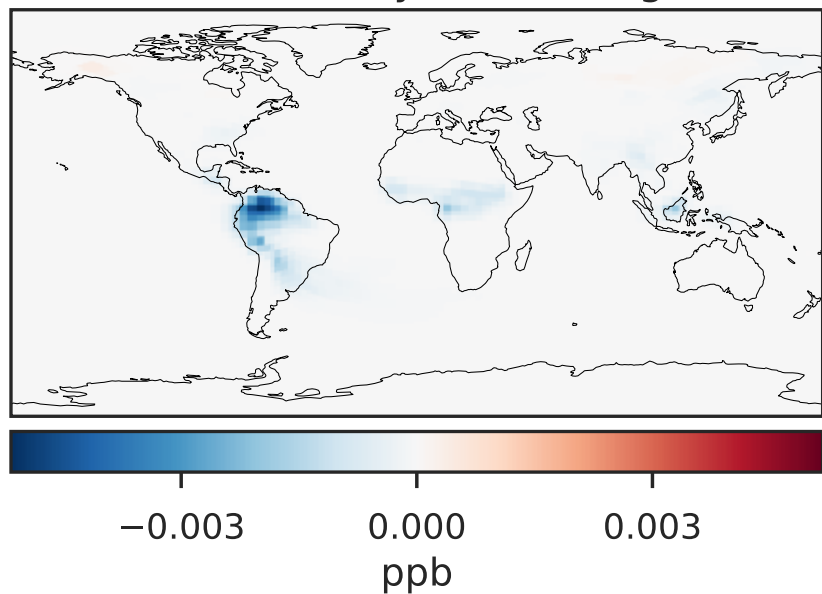
GCHP\_14.0.0 (Ref)  
c24



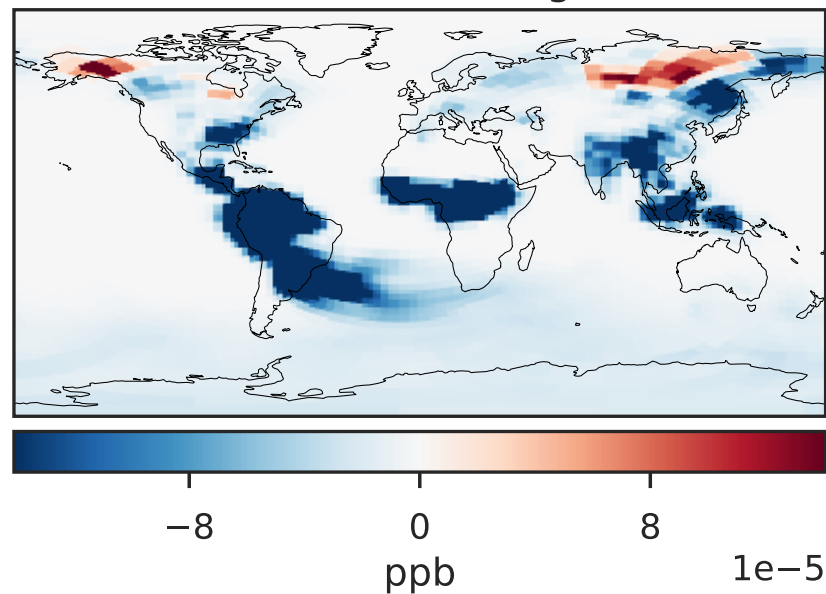
GCHP\_14.2.0 (Dev)  
c24



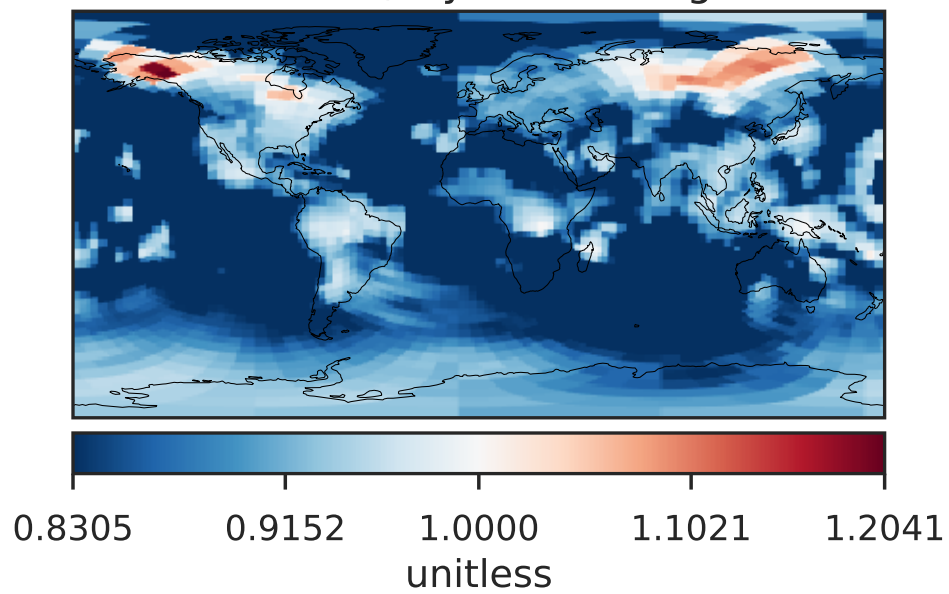
Difference (1x1.25)  
Dev - Ref, Dynamic Range



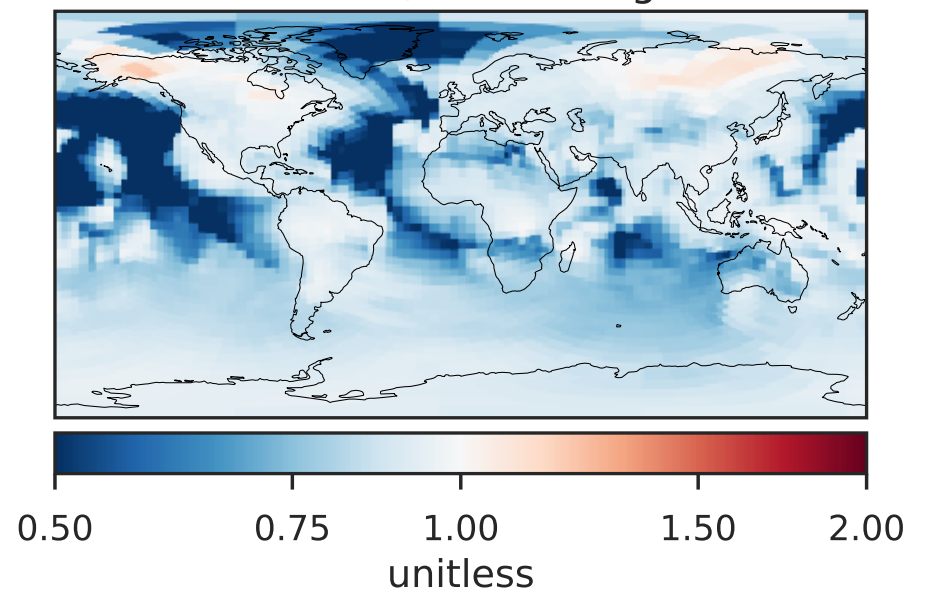
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

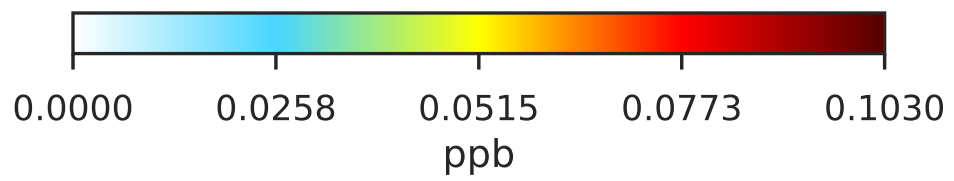
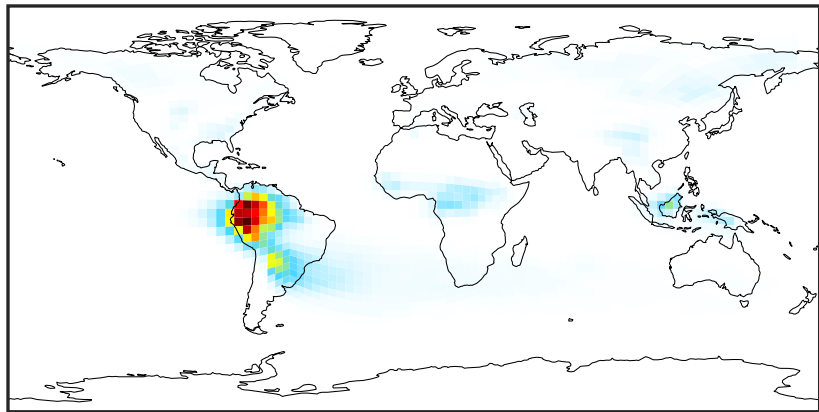


Ratio (1x1.25)  
Dev/Ref, Fixed Range

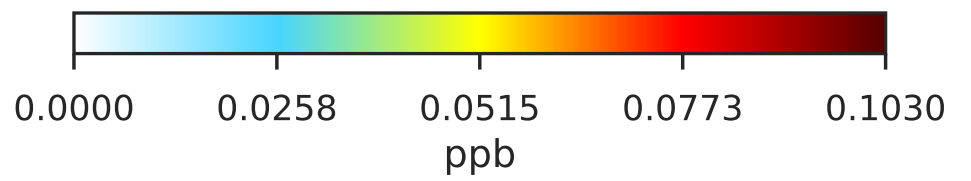
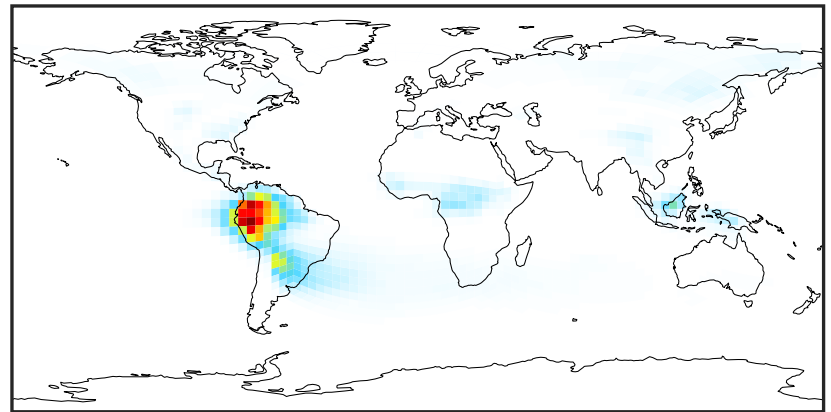


# SpeciesConcVV\_IEPOX (Jul2019)

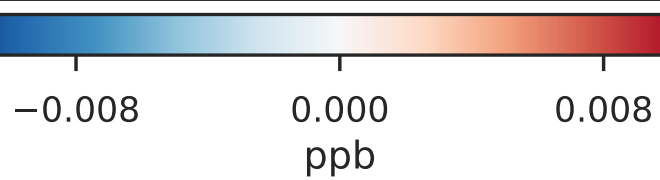
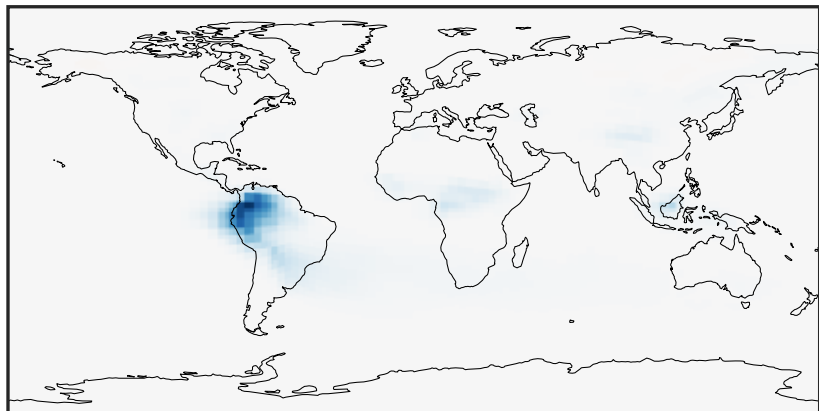
GCHP\_14.0.0 (Ref)  
c24



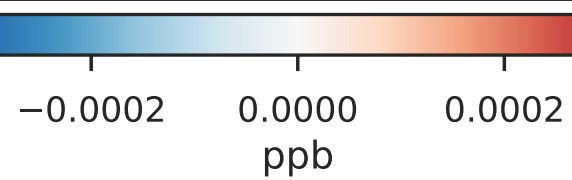
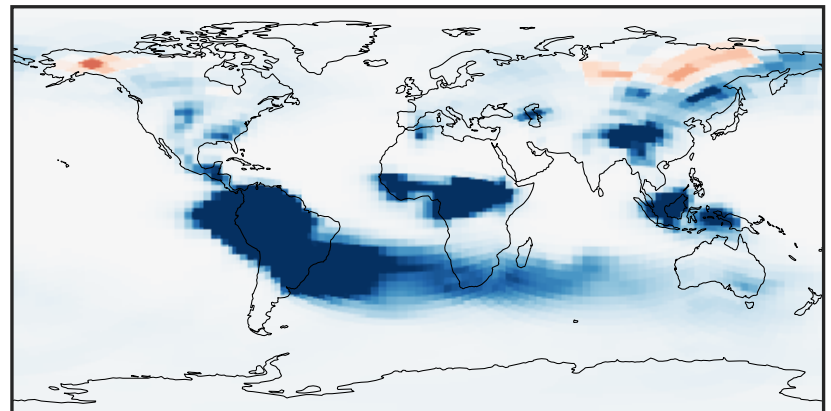
GCHP\_14.2.0 (Dev)  
c24



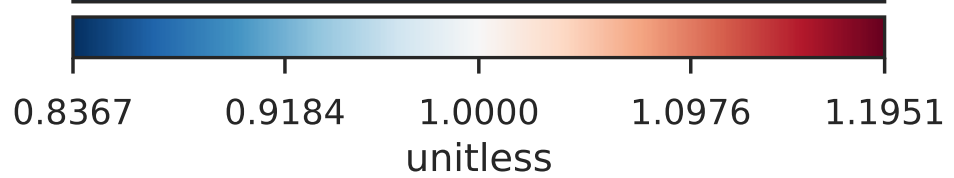
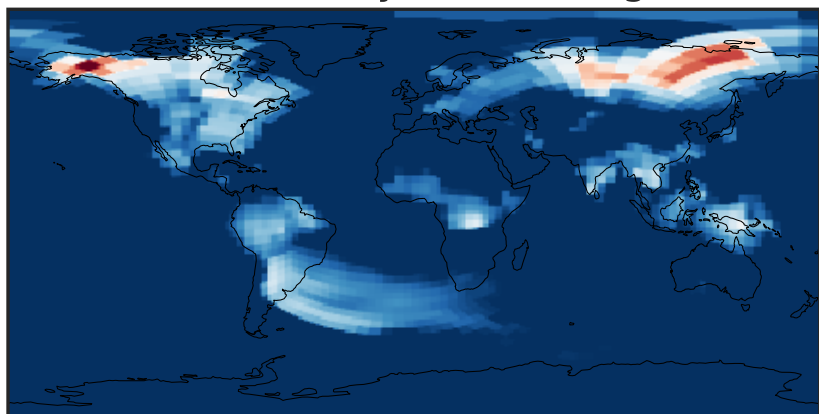
Difference (1x1.25)  
Dev - Ref, Dynamic Range



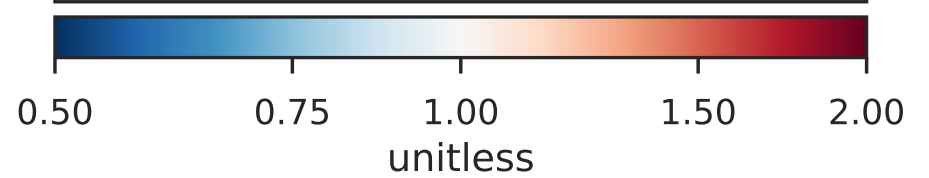
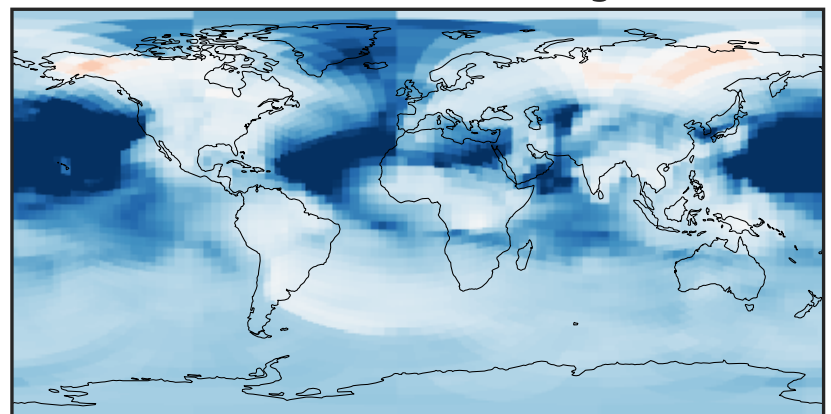
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

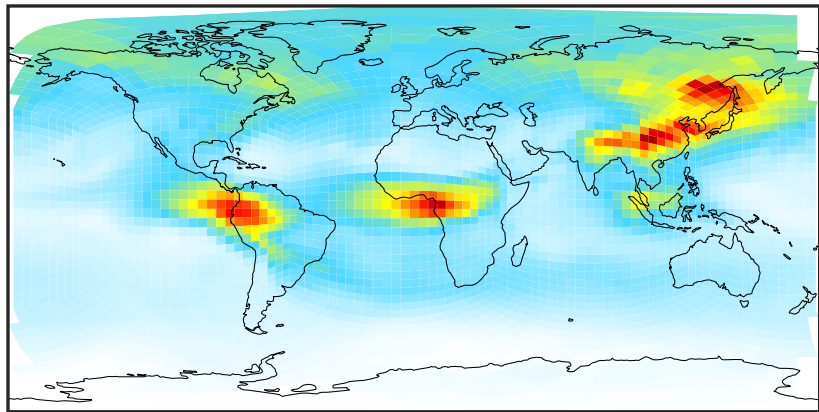


Ratio (1x1.25)  
Dev/Ref, Fixed Range



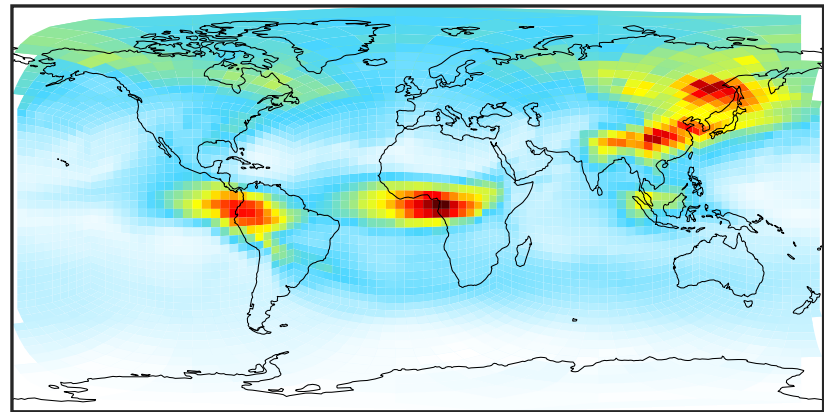
# SpeciesConcVV\_ACET (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



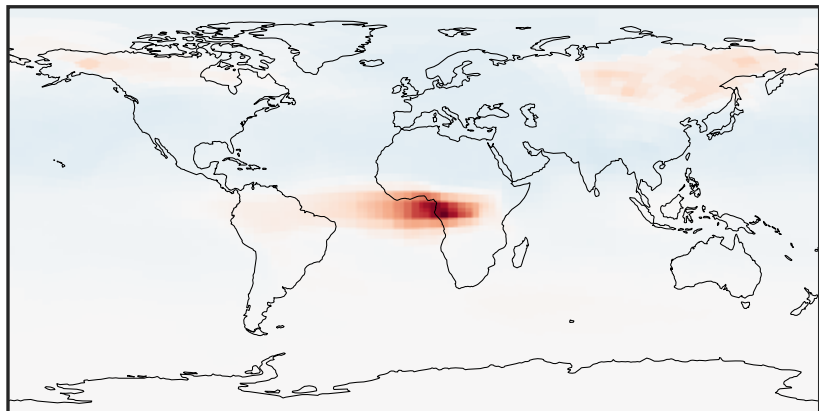
0.310468 0.937 1.405 2.184  
ppb

GCHP\_14.2.0 (Dev)  
c24



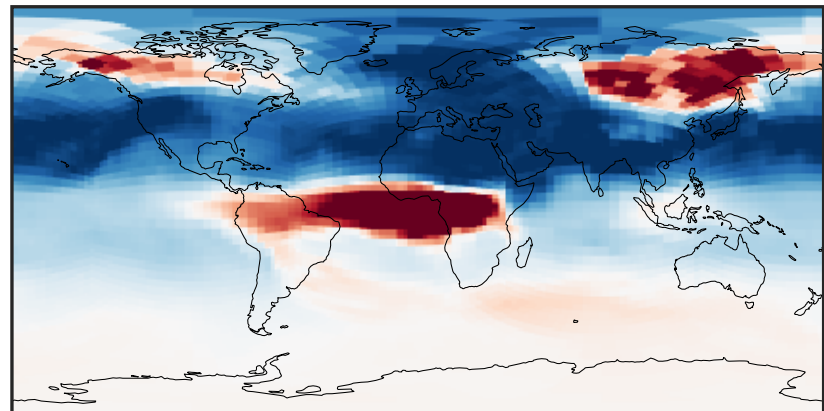
0.310468 0.937 1.405 2.184  
ppb

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



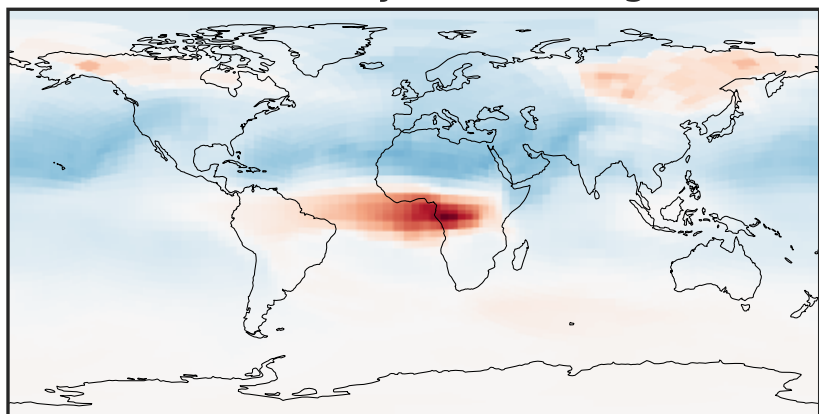
-0.3643 -0.1821 0.0000 0.1821 0.3643  
ppb

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



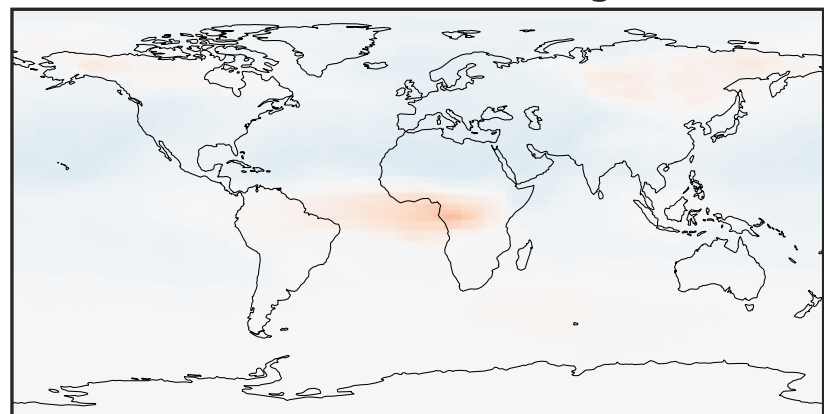
-0.02 0.00 0.02  
ppb

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



0.8113 0.9057 1.0000 1.1163 1.2325  
unitless

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

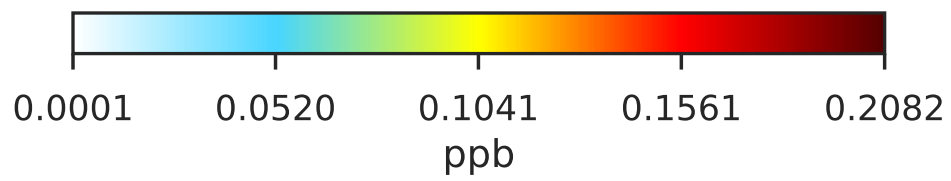
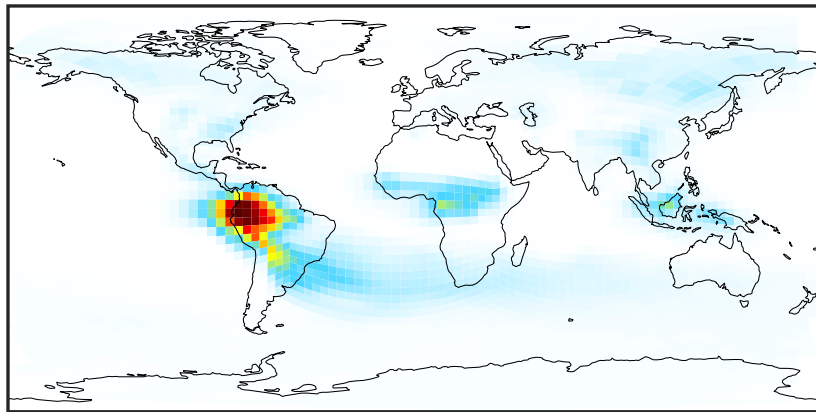


0.50 0.75 1.00 1.50 2.00  
unitless

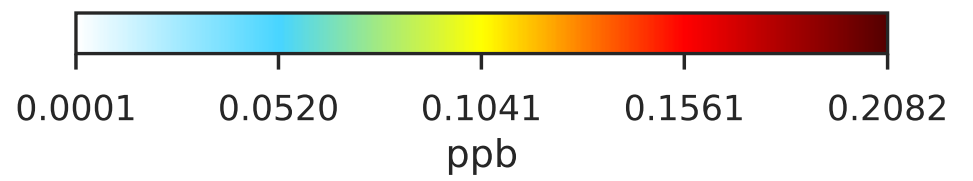
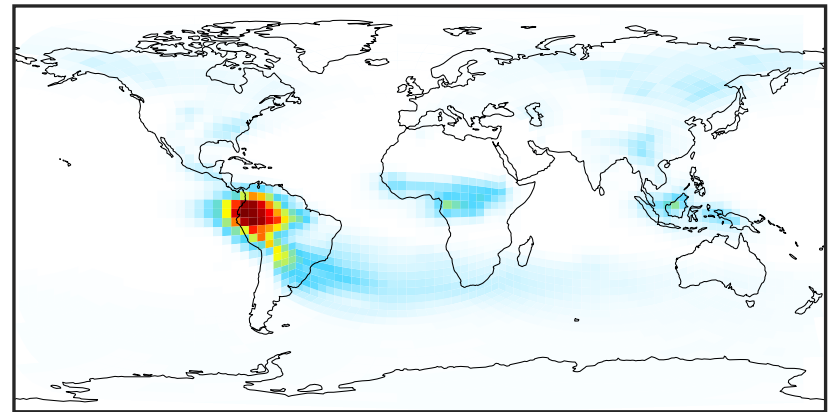


# SpeciesConcVV\_HAC (Jul2019)

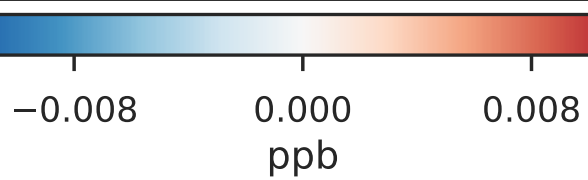
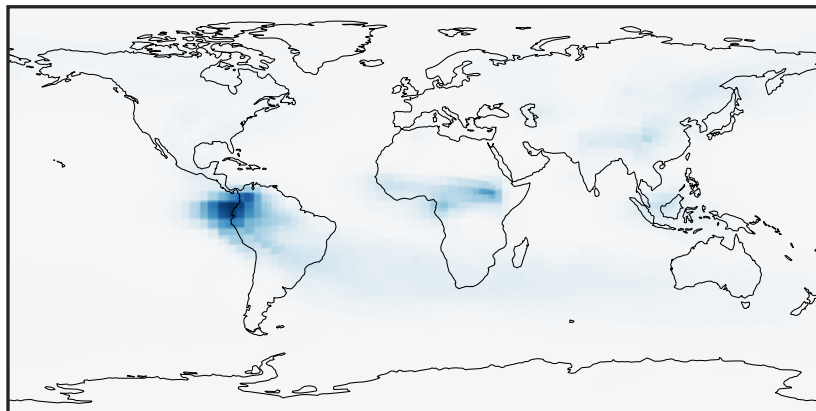
GCHP\_14.0.0 (Ref)  
c24



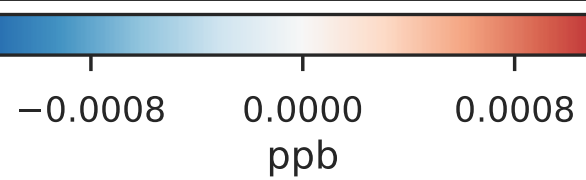
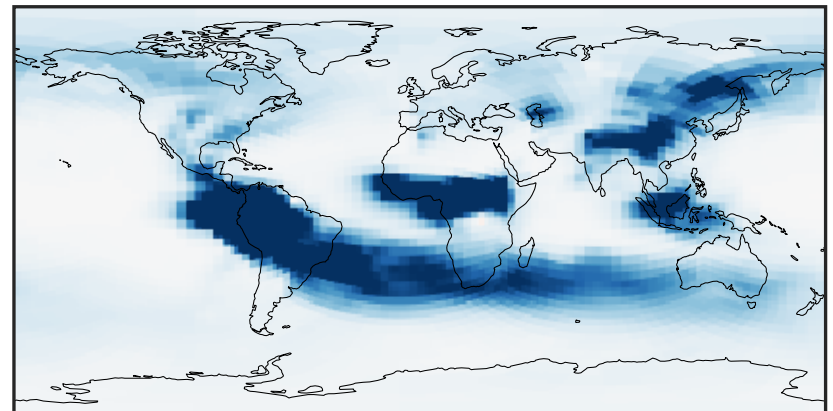
GCHP\_14.2.0 (Dev)  
c24



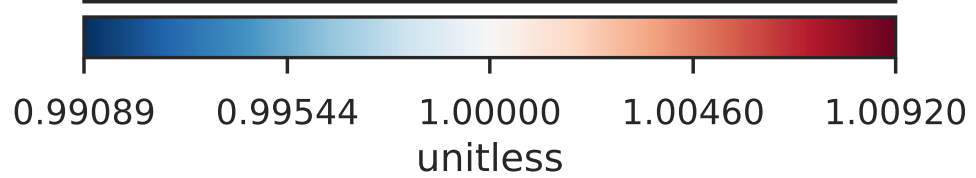
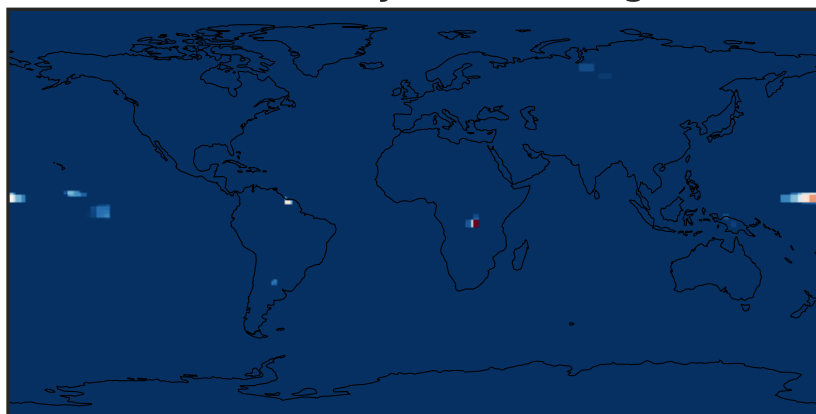
Difference (1x1.25)  
Dev - Ref, Dynamic Range



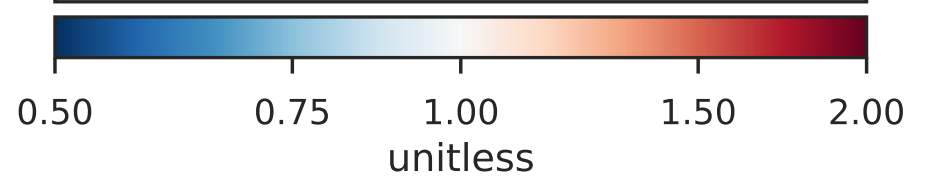
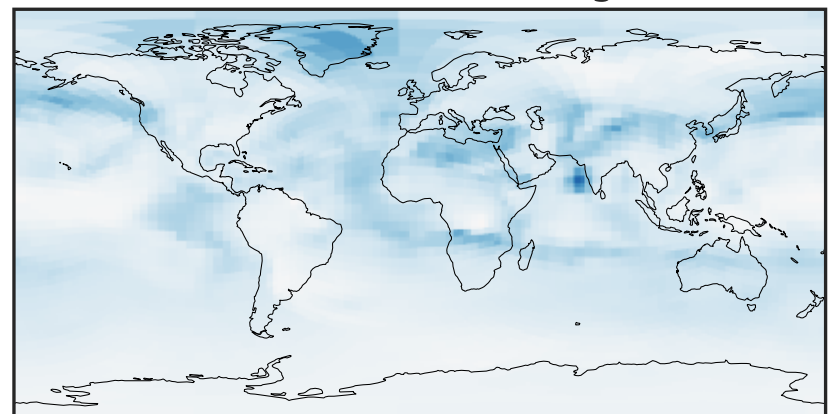
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

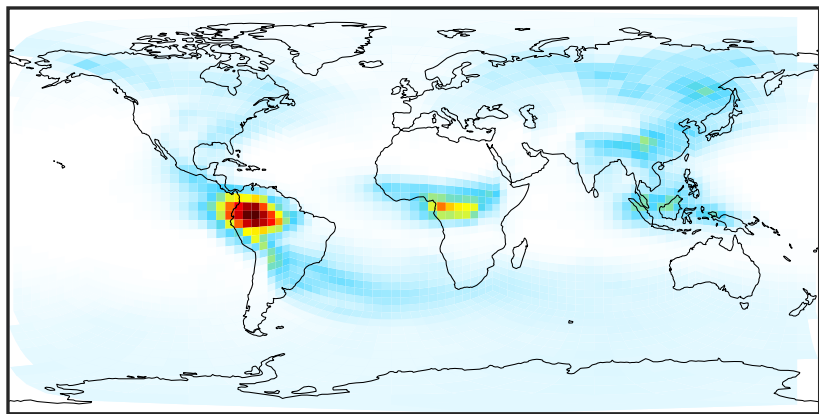


Ratio (1x1.25)  
Dev/Ref, Fixed Range



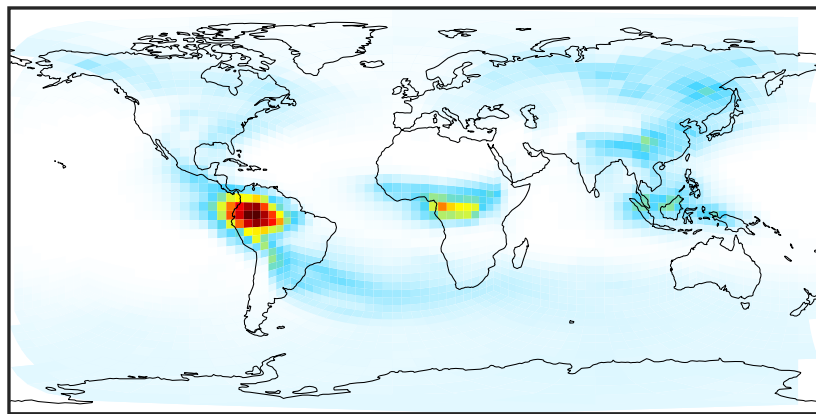
# SpeciesConcVV\_MEK (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



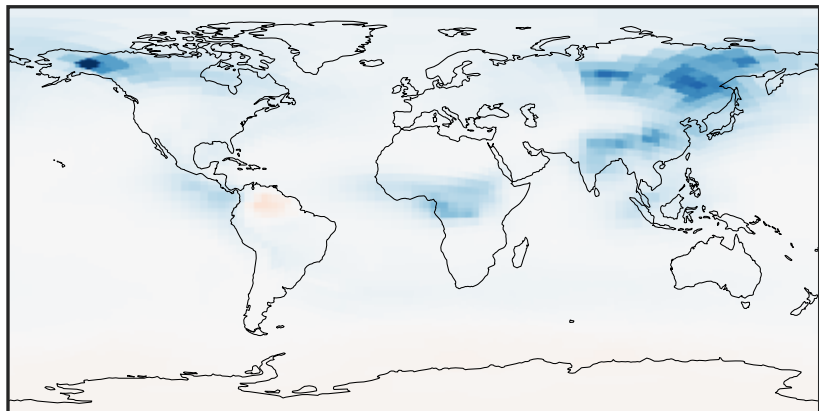
0.0001 0.0736 0.1472 0.2207 0.2944  
ppb

GCHP\_14.2.0 (Dev)  
c24



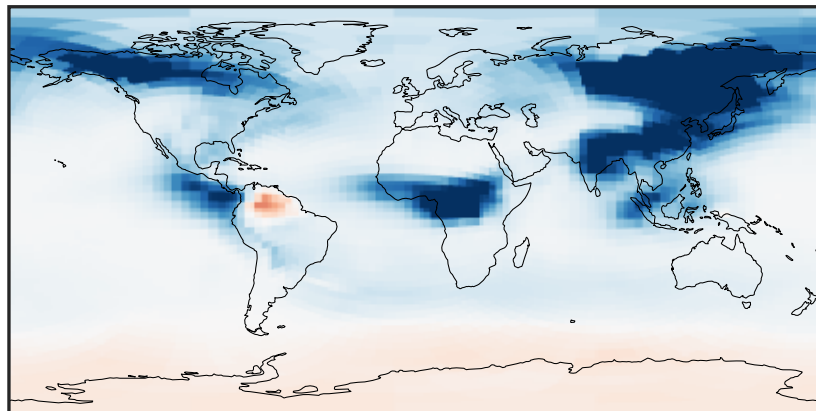
0.0001 0.0736 0.1472 0.2207 0.2944  
ppb

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



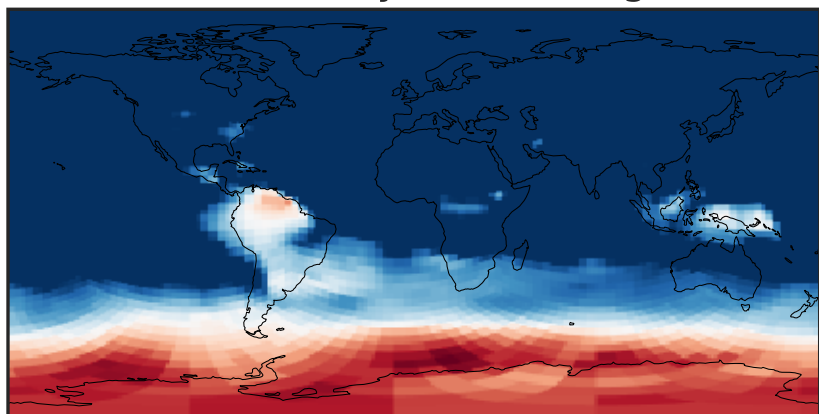
-0.005 0.000 0.005  
ppb

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



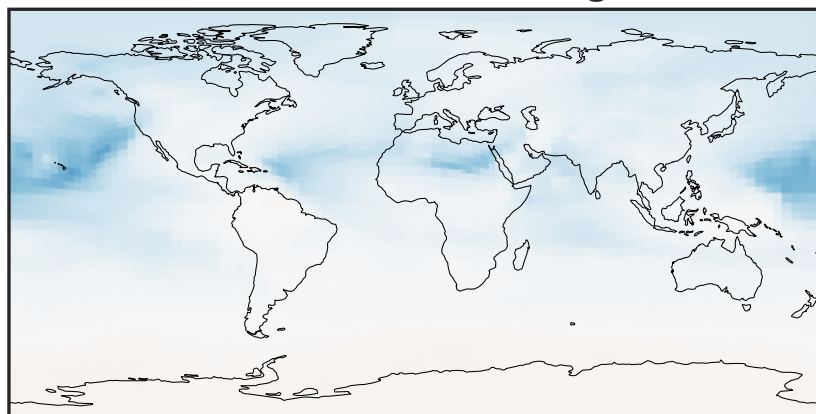
-0.0015 0.0000 0.0015  
ppb

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



0.97484 0.98742 1.00000 1.01291 1.02581  
unitless

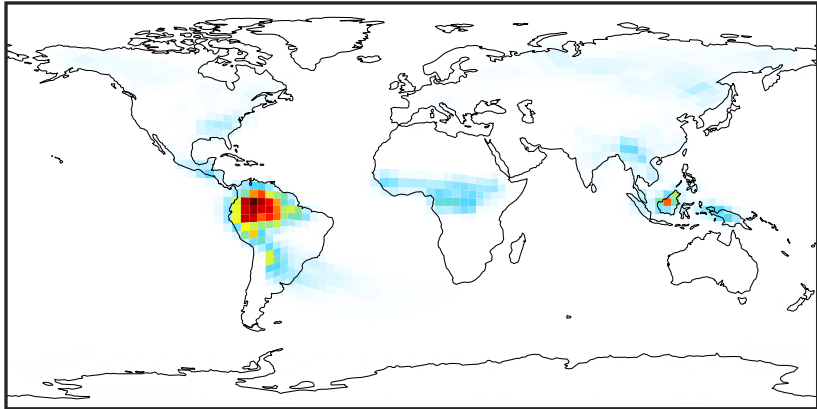
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

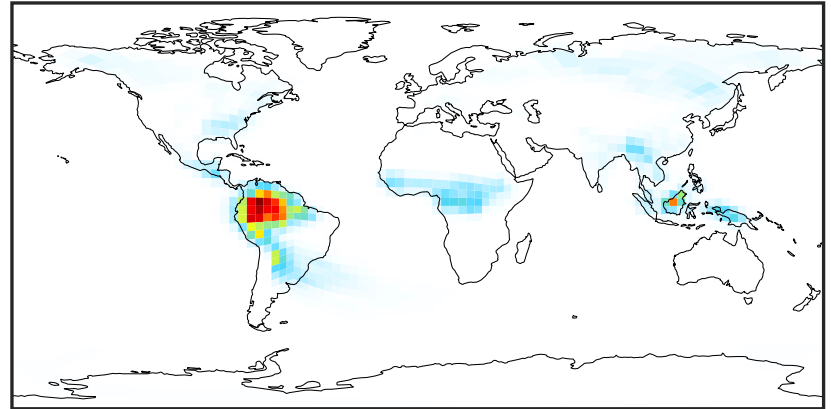
# SpeciesConcVV\_MVK (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



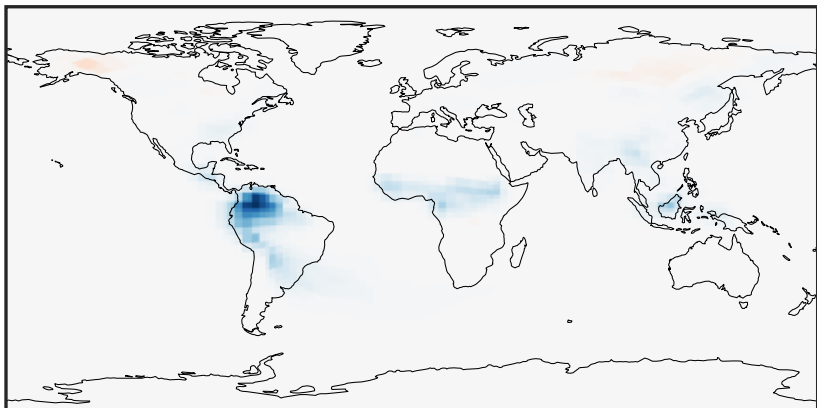
0.0000 0.0277 0.0555 0.0832 0.1110  
ppb

GCHP\_14.2.0 (Dev)  
c24



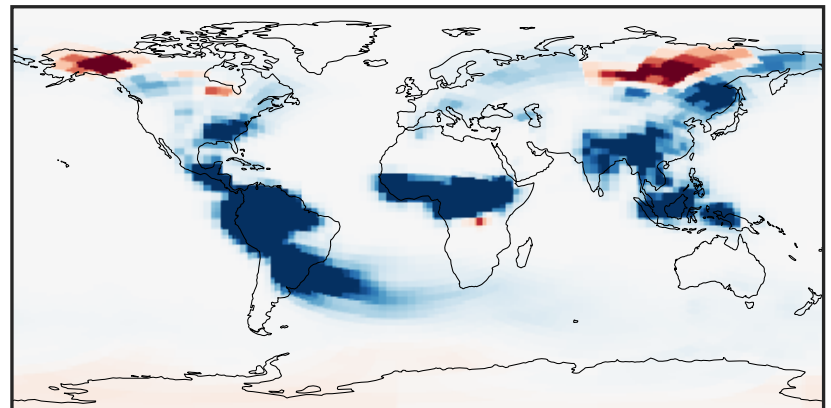
0.0000 0.0277 0.0555 0.0832 0.1110  
ppb

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



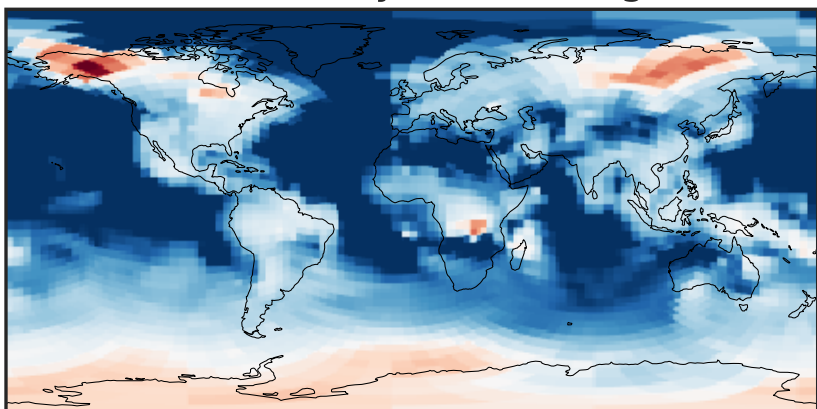
-0.005 0.000 0.005  
ppb

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



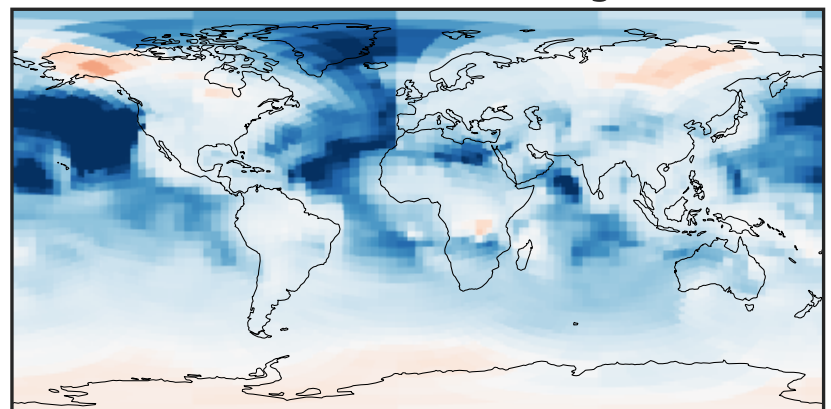
-0.0002 0.0000 0.0002  
ppb

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



0.7562 0.8781 1.0000 1.1612 1.3223  
unitless

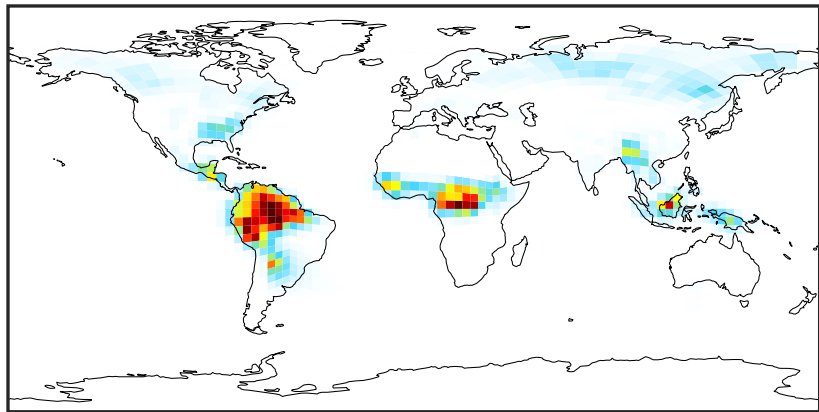
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

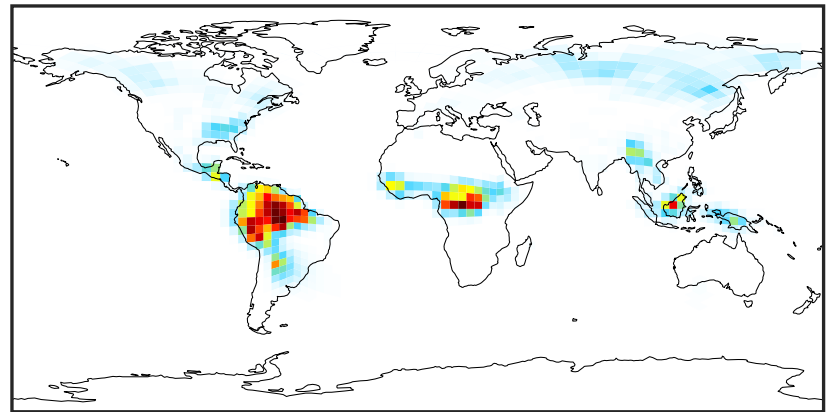
# SpeciesConcVV\_ISOPN (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



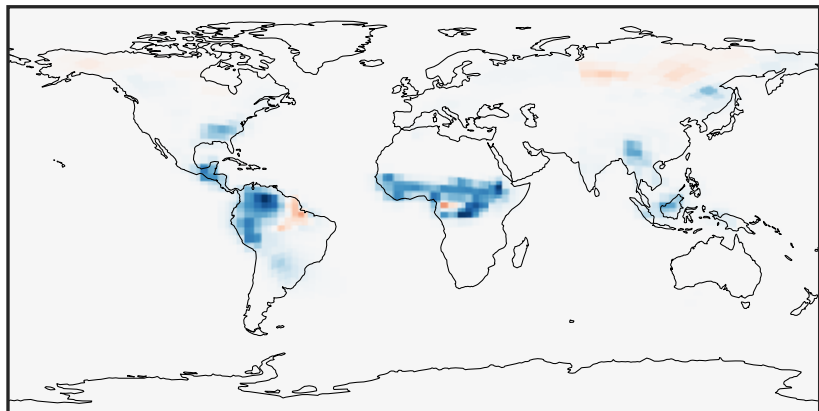
0.00000 0.00025 0.00050 0.00075  
ppb

GCHP\_14.2.0 (Dev)  
c24



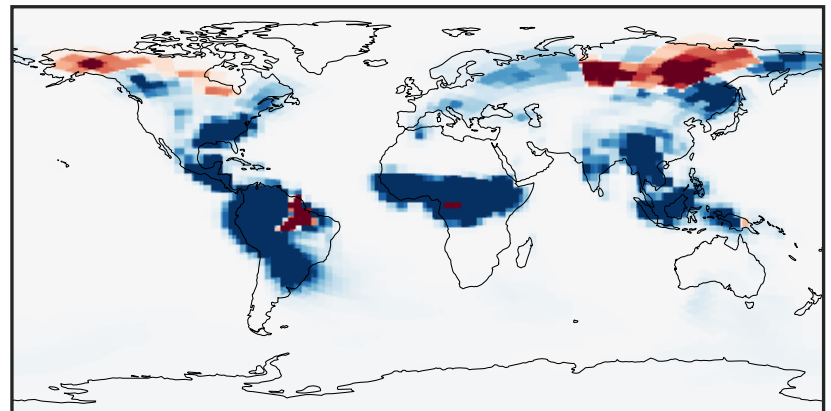
0.00000 0.00025 0.00050 0.00075  
ppb

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



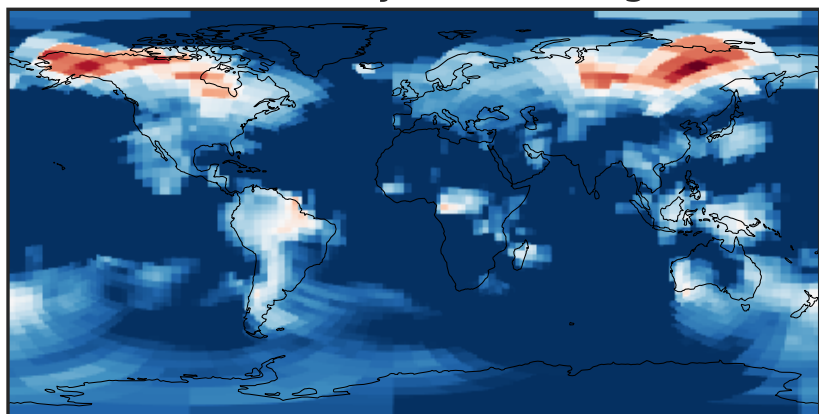
-5 0 5  
ppb  $1e-5$

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



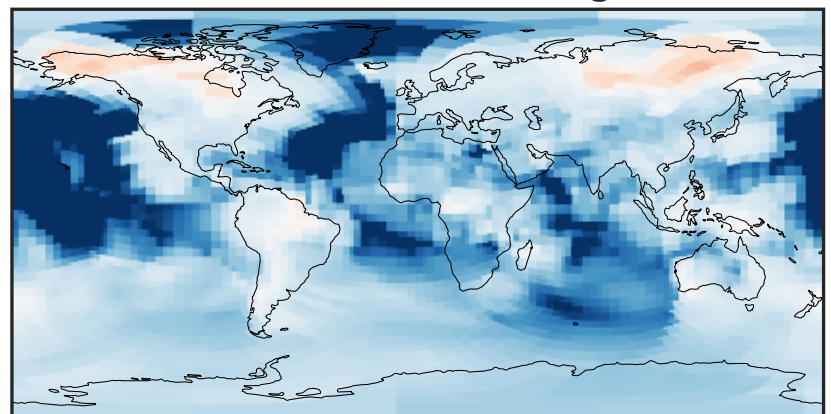
-2.5 0.0 2.5  
ppb  $1e-6$

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



0.8029 0.9014 1.0000 1.1228 1.2455  
unitless

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



0.50 0.75 1.00 1.50 2.00  
unitless

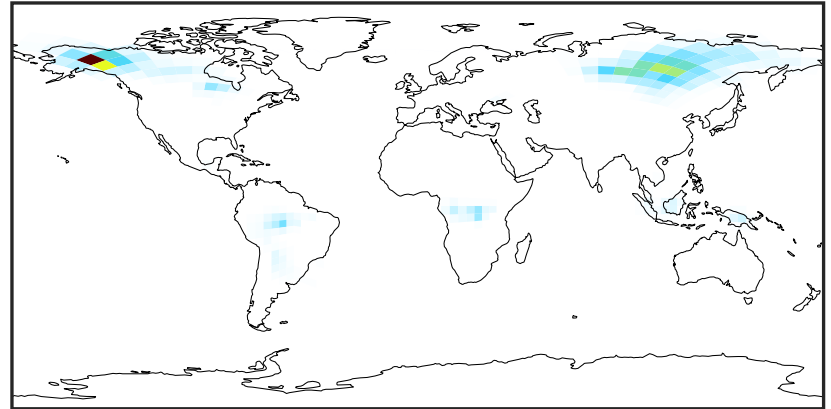
# SpeciesConcVV\_FURA (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



Undefined throughout domain  
ppb

GCHP\_14.2.0 (Dev)  
c24



0.000 0.001 0.002 0.003  
ppb

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



Undefined throughout domain  
ppb

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



Undefined throughout domain  
ppb

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



Undefined throughout domain  
unitless

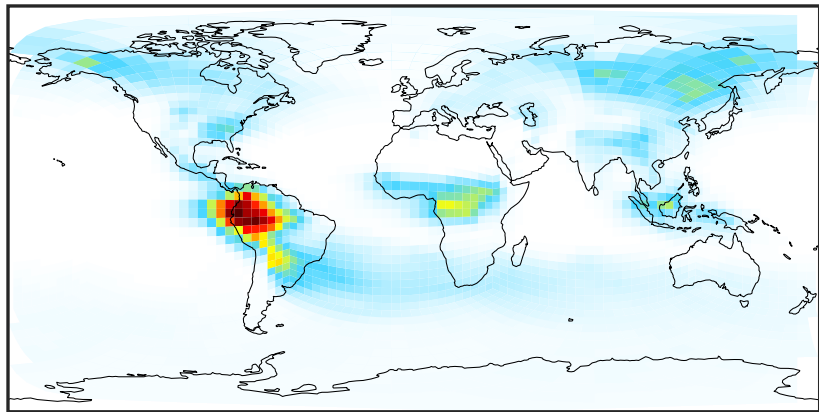
Ratio (1x1.25)  
Dev/Ref, Fixed Range



Undefined throughout domain  
unitless

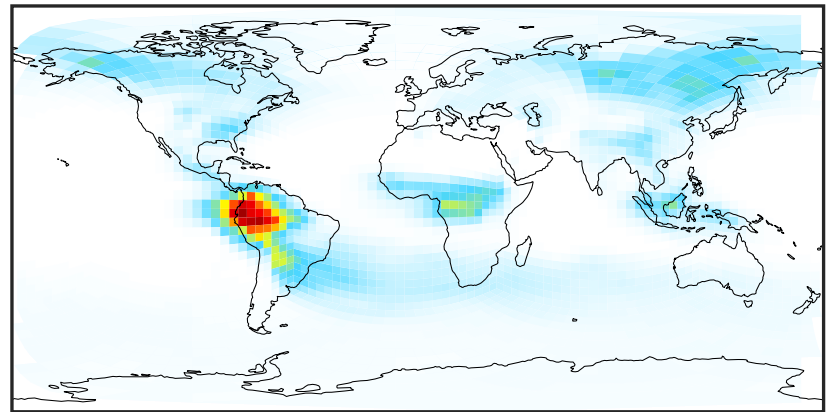
# SpeciesConcVV\_GLYC (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



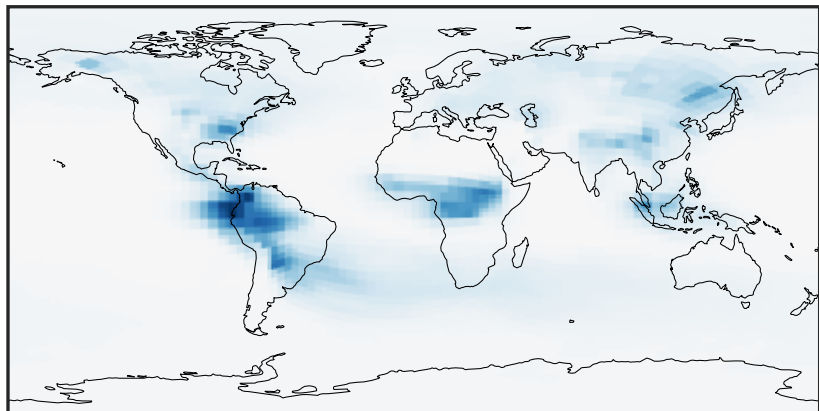
0.0000 0.0299 0.0598 0.0897 0.1196  
ppb

GCHP\_14.2.0 (Dev)  
c24



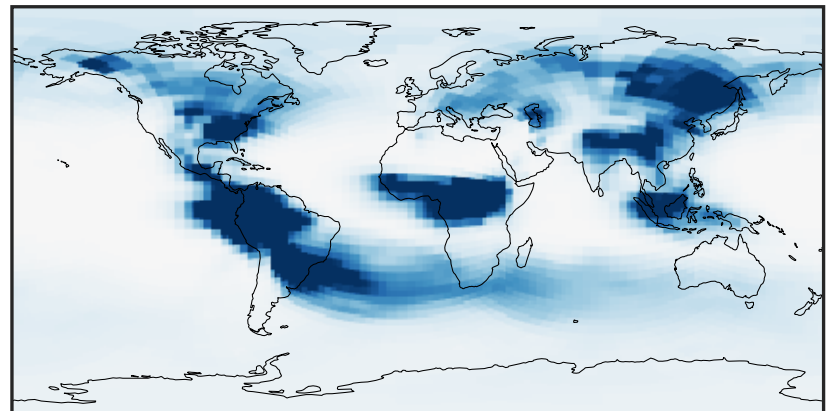
0.0000 0.0299 0.0598 0.0897 0.1196  
ppb

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



-0.008 0.000 0.008  
ppb

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



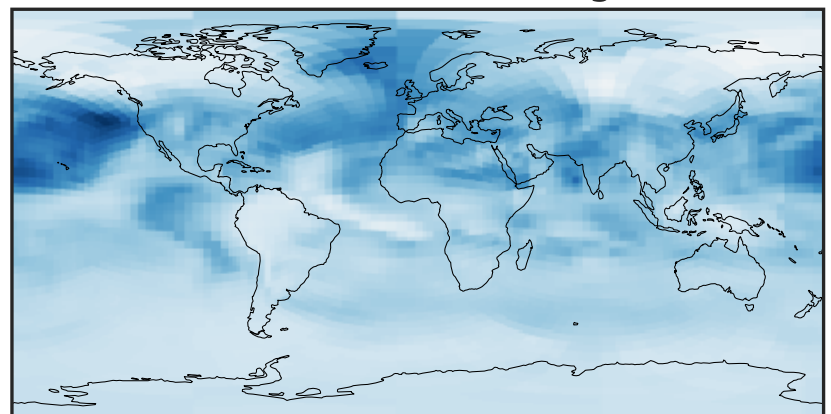
-0.002 0.000 0.002  
ppb

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



0.97387 0.98693 1.00000 1.01342 1.02683  
unitless

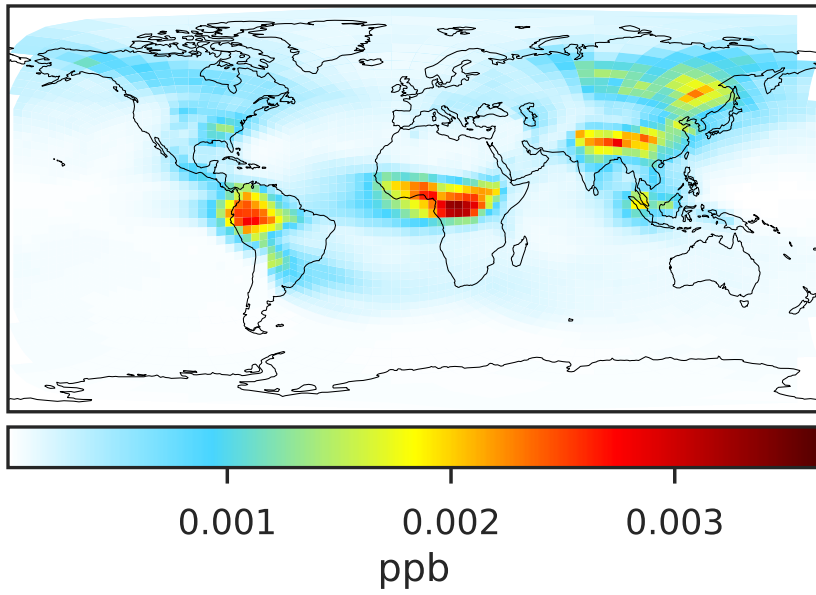
Ratio (1x1.25)  
Dev/Ref, Fixed Range



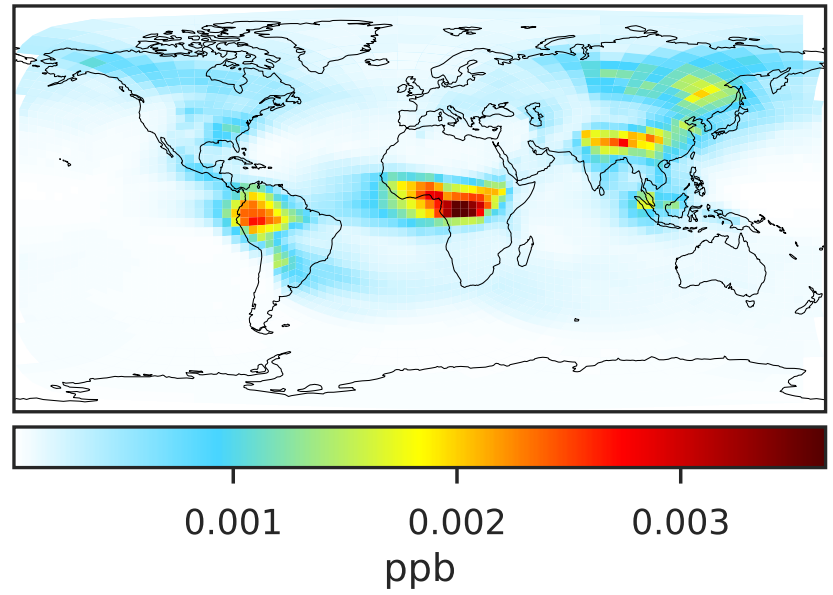
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_GLYX (Jul2019)

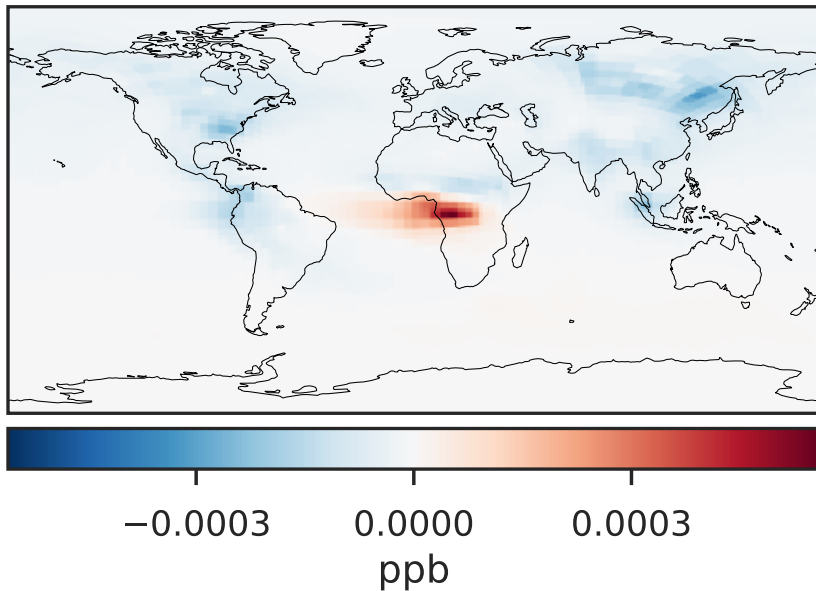
GCHP\_14.0.0 (Ref)  
c24



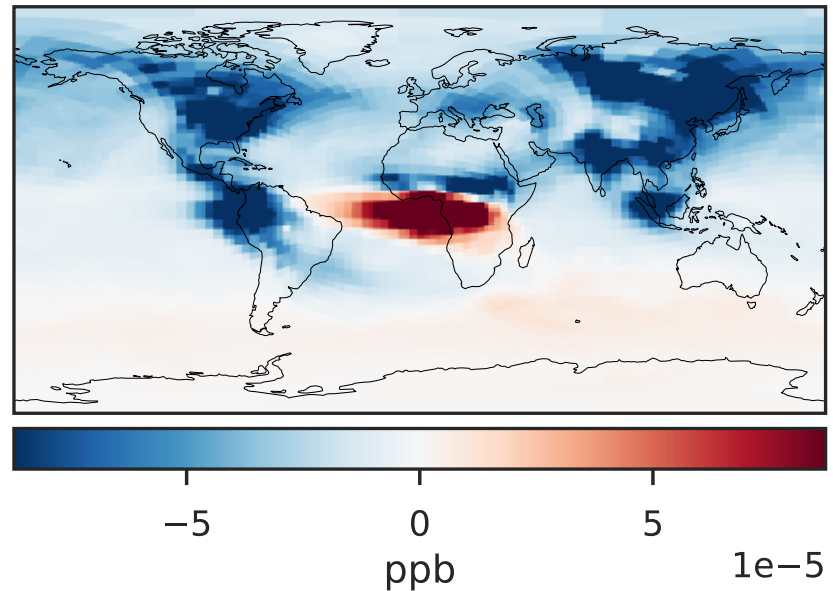
GCHP\_14.2.0 (Dev)  
c24



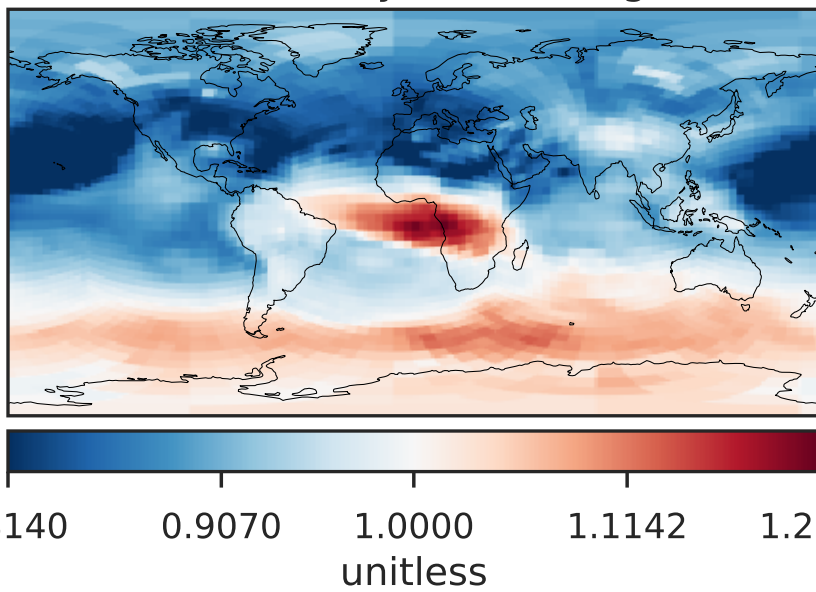
Difference (1x1.25)  
Dev - Ref, Dynamic Range



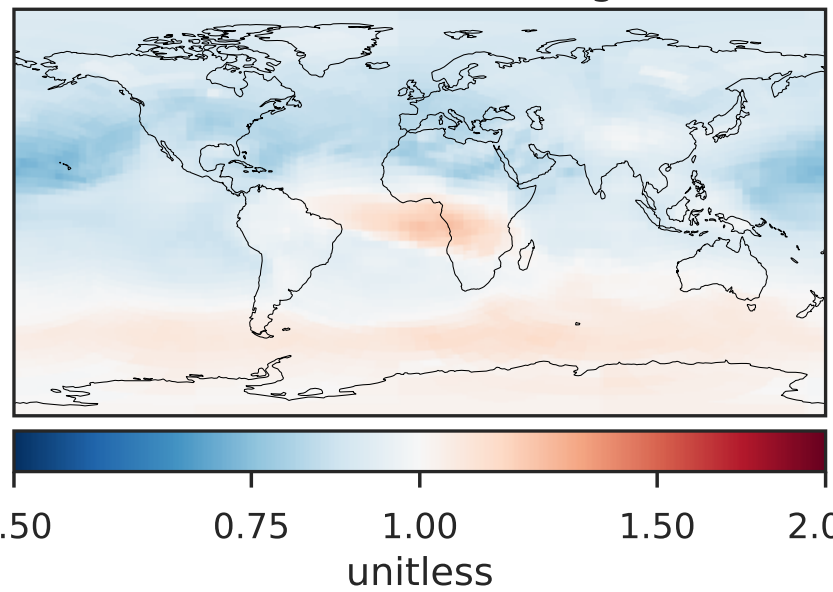
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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



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

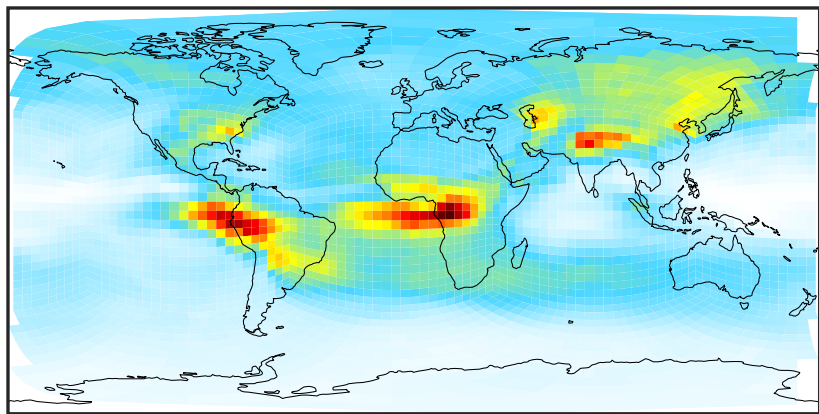


0.8140 0.9070 1.0000 1.1142 1.2285  
unitless

0.50 0.75 1.00 1.50 2.00  
unitless

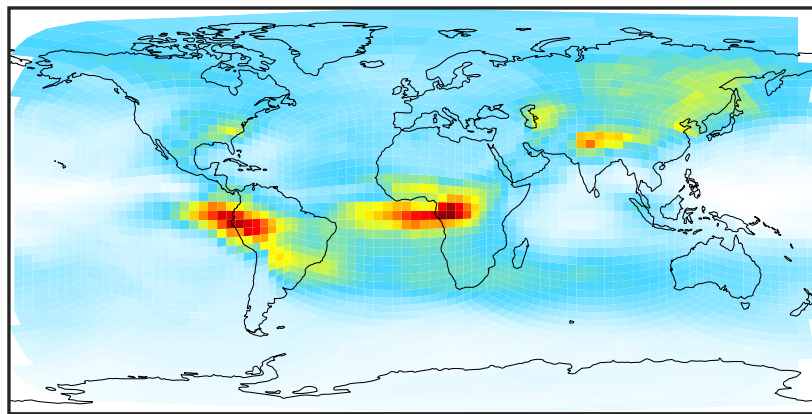
# SpeciesConcVV\_HCOOH (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



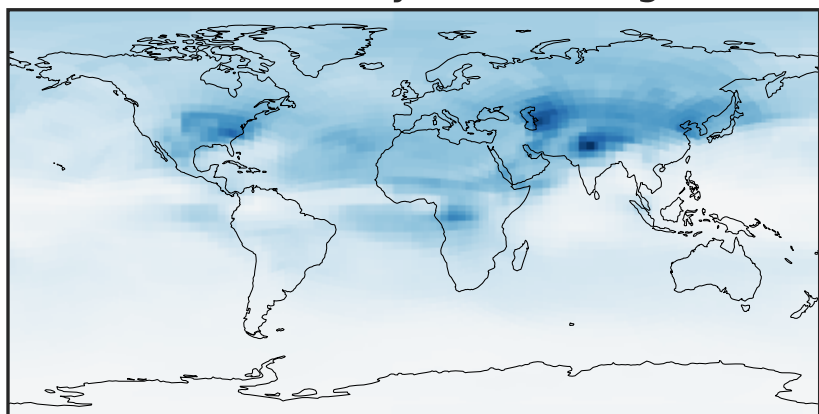
0.0017 0.0753 0.1507 0.2260 0.3030  
ppb

GCHP\_14.2.0 (Dev)  
c24



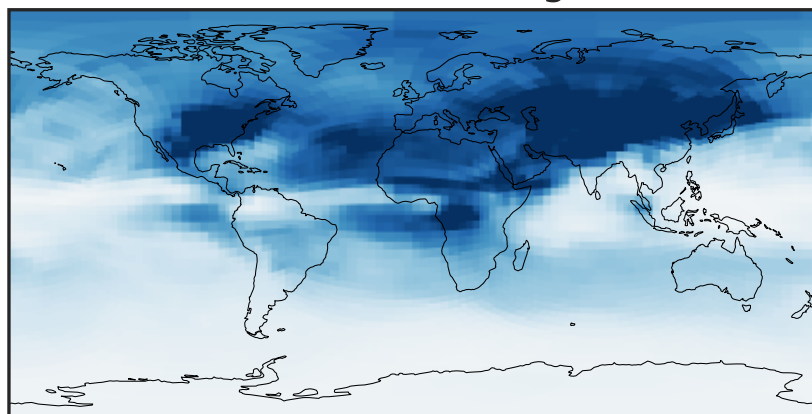
0.0017 0.0753 0.1507 0.2260 0.3030  
ppb

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



-0.02 0.00 0.02  
ppb

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



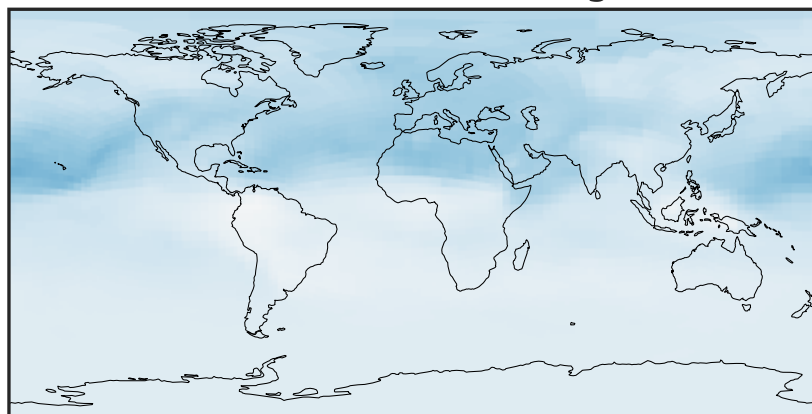
-0.01 0.00 0.01  
ppb

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



0.98894 0.99447 1.00000 1.00559 1.01118  
unitless

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

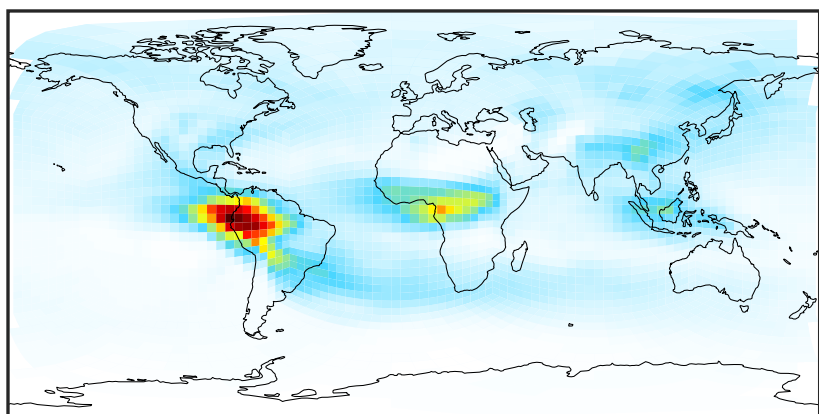


0.50 0.75 1.00 1.50 2.00  
unitless



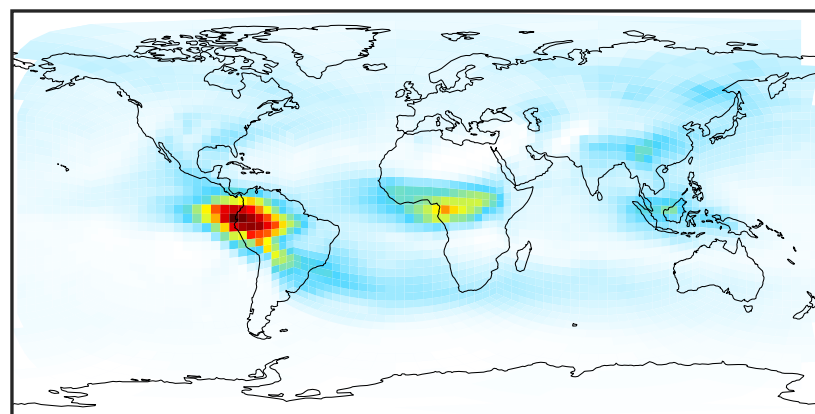
# SpeciesConcVV\_MAP (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



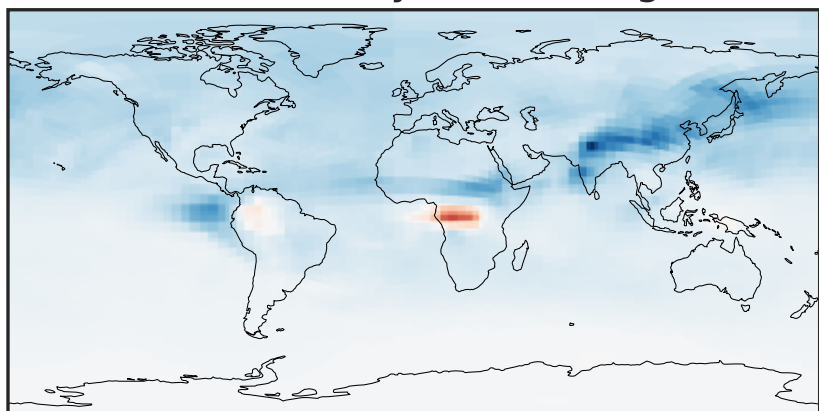
0.0056 0.0920 0.1839 0.2759 0.3734  
ppb

GCHP\_14.2.0 (Dev)  
c24



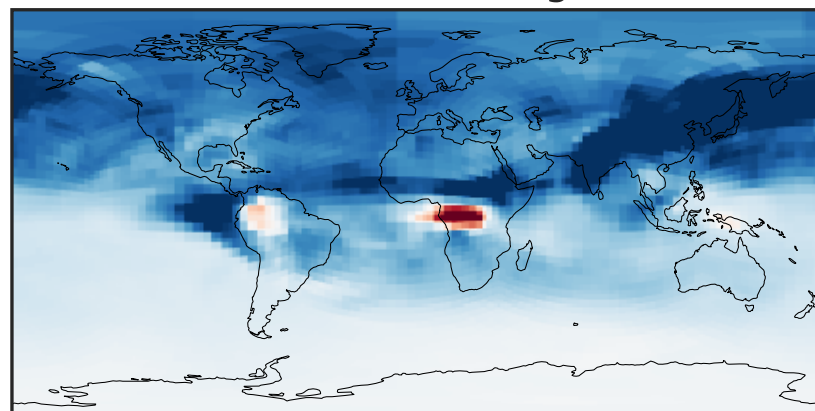
0.0056 0.0920 0.1839 0.2759 0.3734  
ppb

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



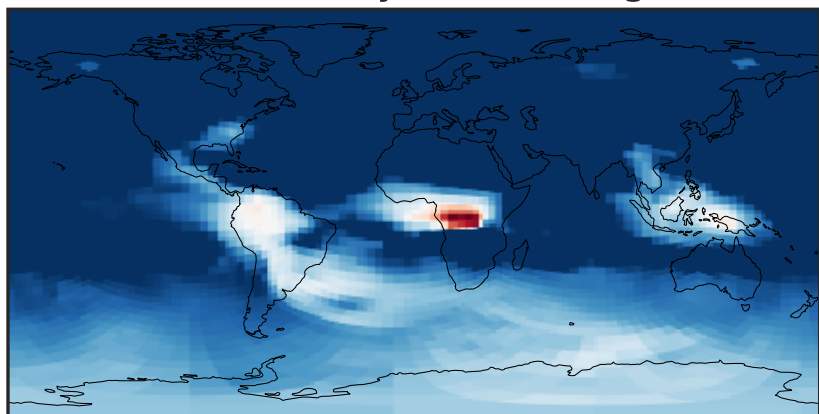
-0.008 0.000 0.008  
ppb

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



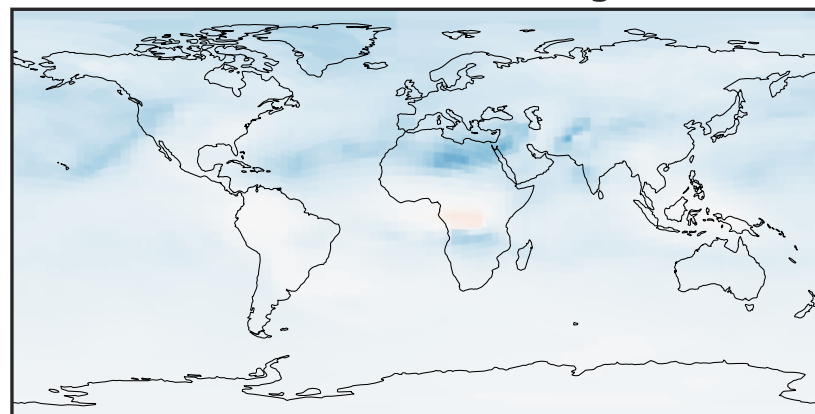
-0.0025 0.0000 0.0025  
ppb

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



0.9419 0.9710 1.0000 1.0308 1.0616  
unitless

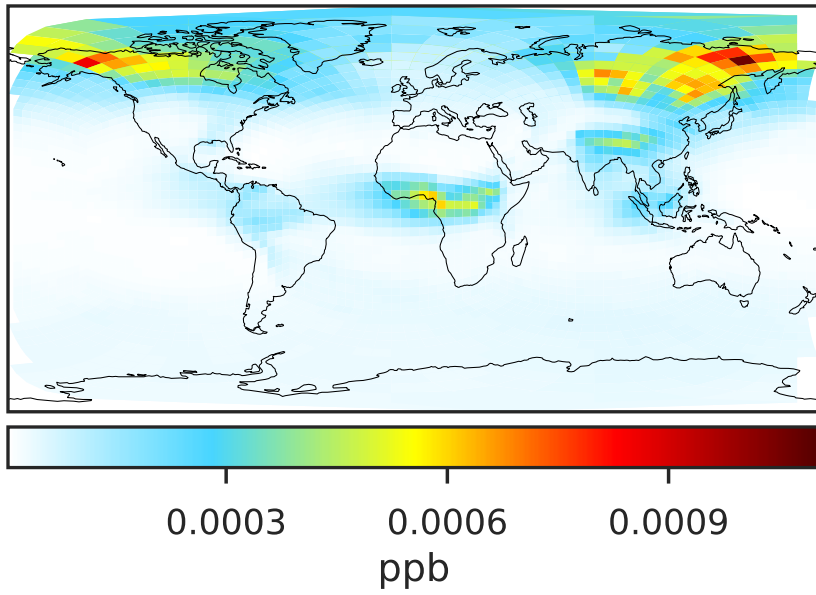
Ratio (1x1.25)  
Dev/Ref, Fixed Range



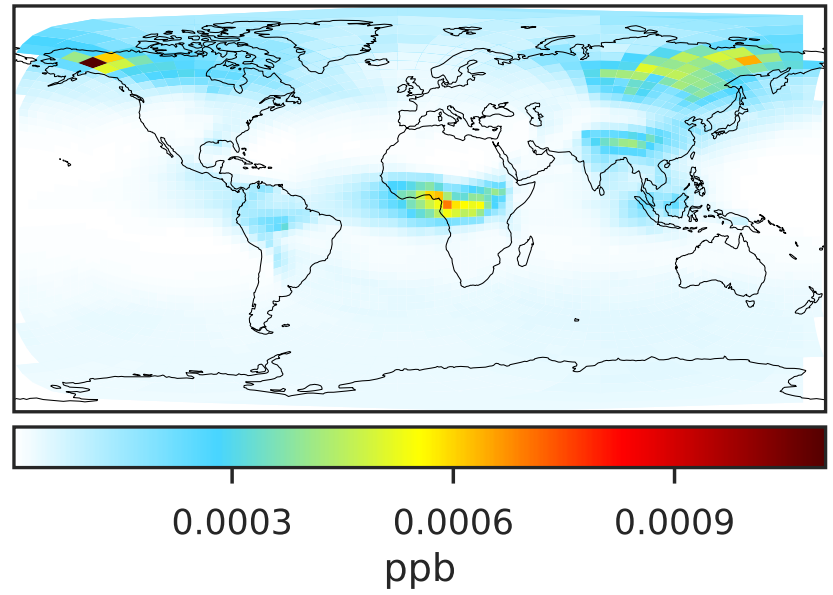
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_PHEN (Jul2019)

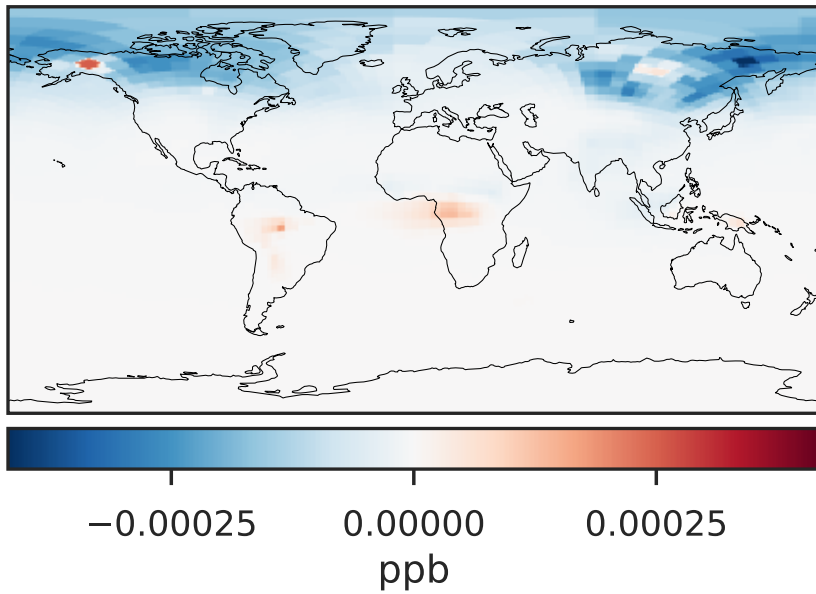
GCHP\_14.0.0 (Ref)  
c24



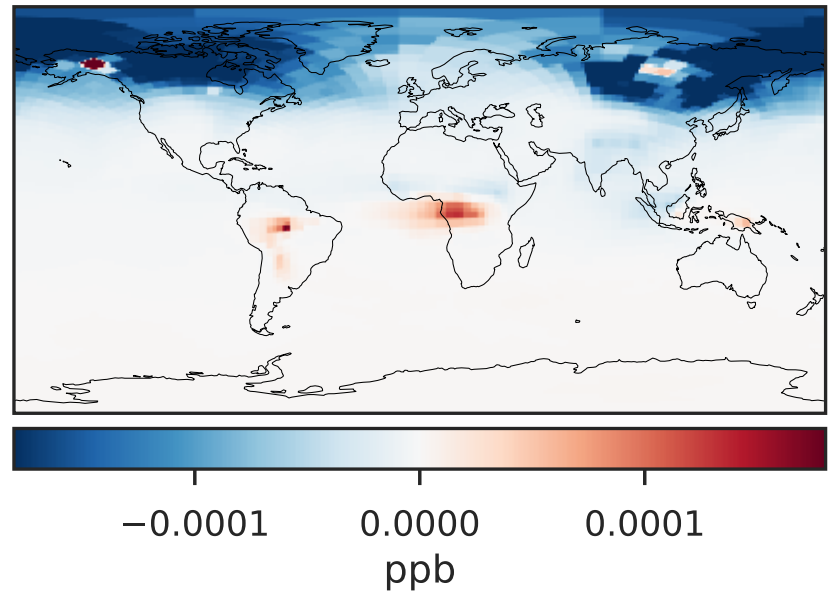
GCHP\_14.2.0 (Dev)  
c24



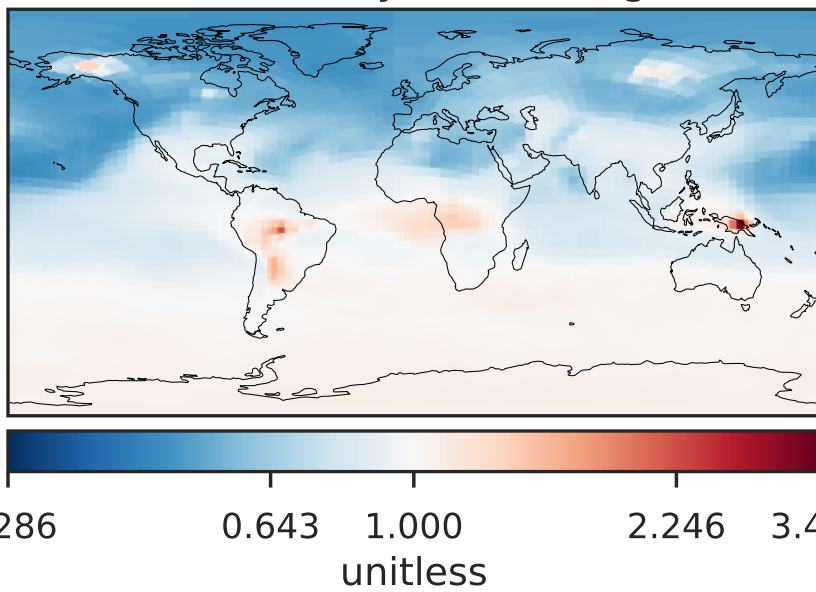
Difference (1x1.25)  
Dev - Ref, Dynamic Range



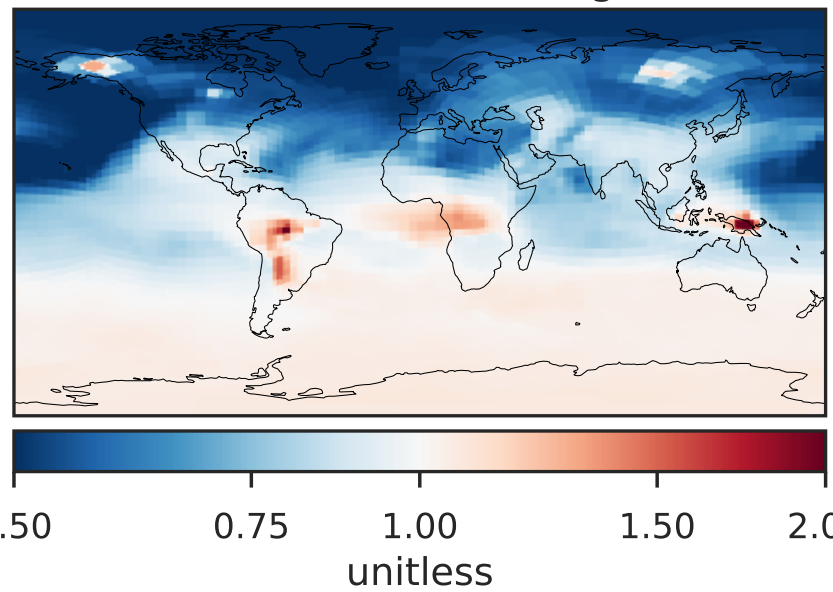
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

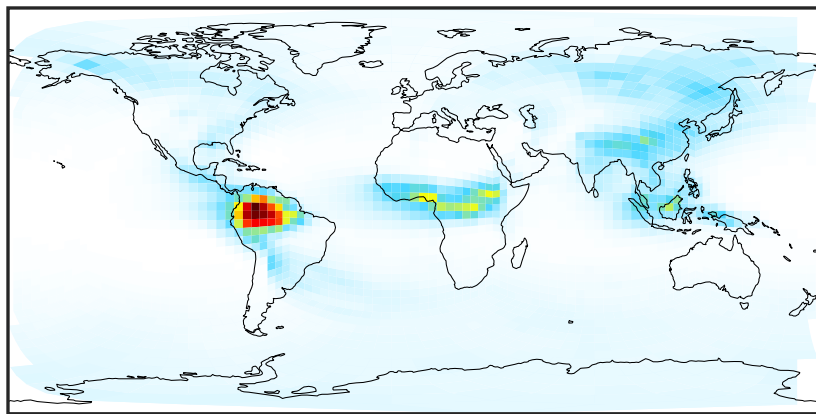


Ratio (1x1.25)  
Dev/Ref, Fixed Range



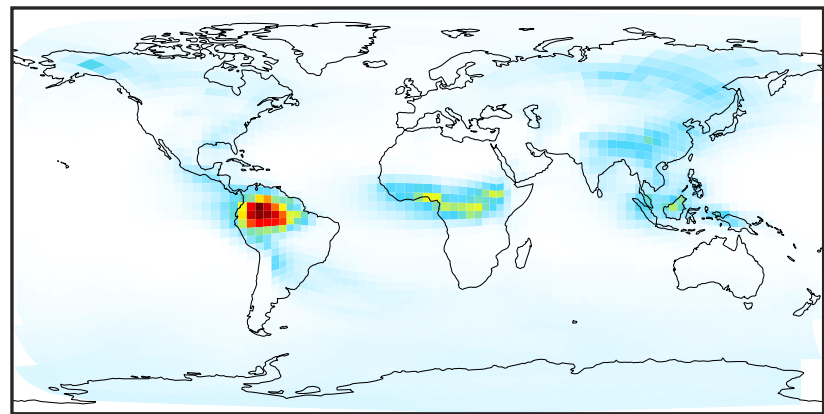
# SpeciesConcVV\_RCHO (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



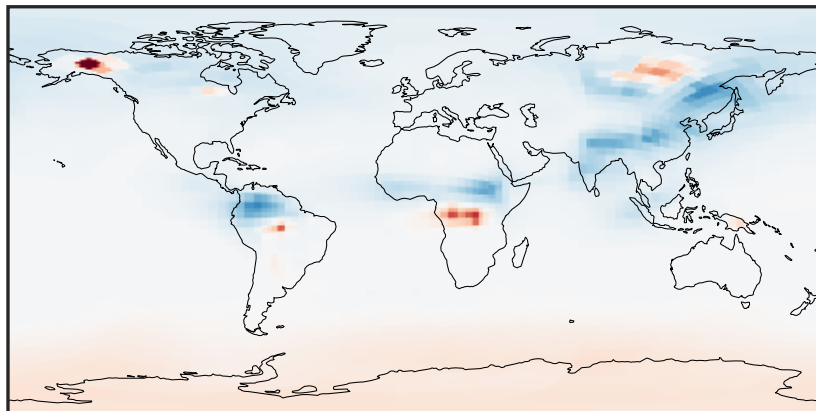
0.015 0.030  
ppb

GCHP\_14.2.0 (Dev)  
c24



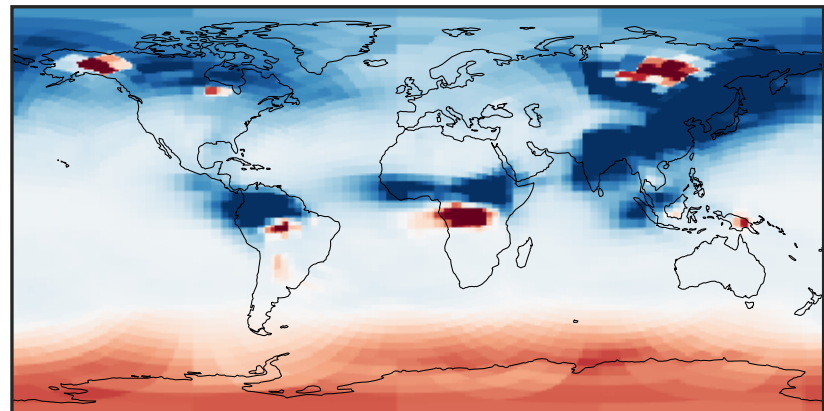
0.015 0.030  
ppb

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



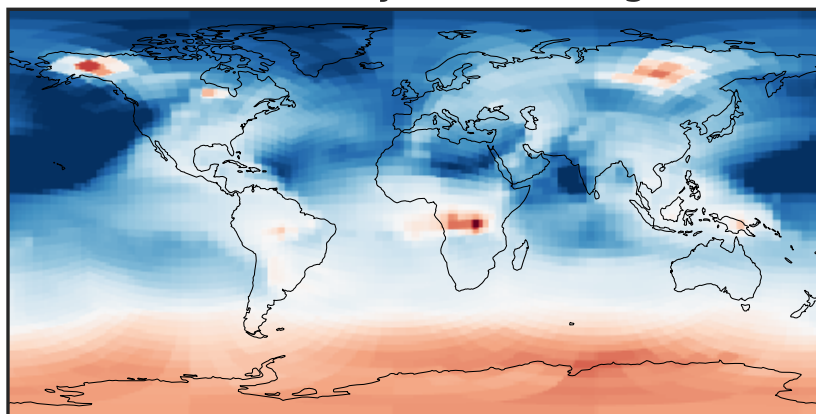
-0.002 0.000 0.002  
ppb

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



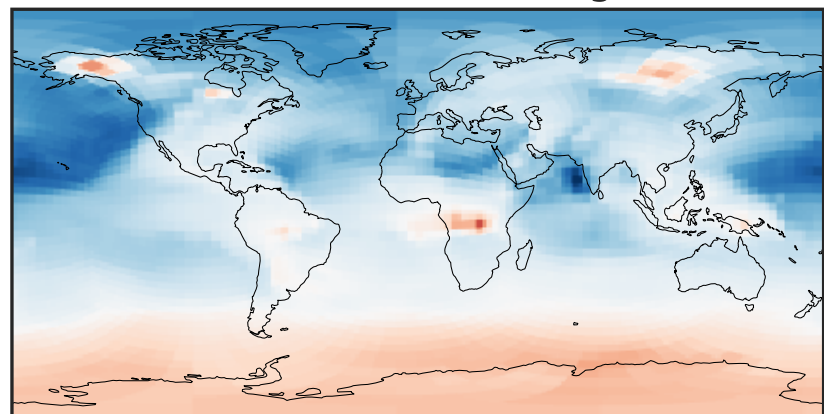
-0.0004 0.0000 0.0004  
ppb

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



0.6374 0.8187 1.0000 1.2844 1.5689  
unitless

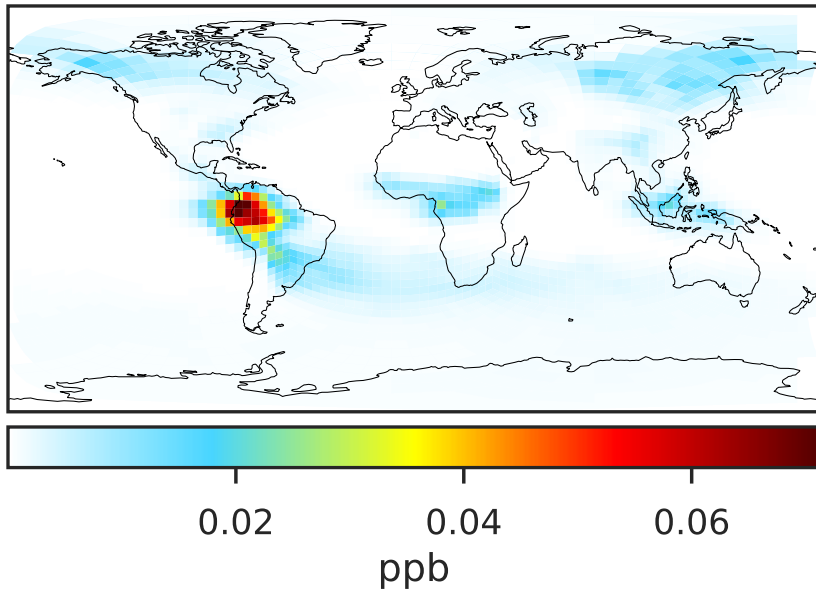
Ratio (1x1.25)  
Dev/Ref, Fixed Range



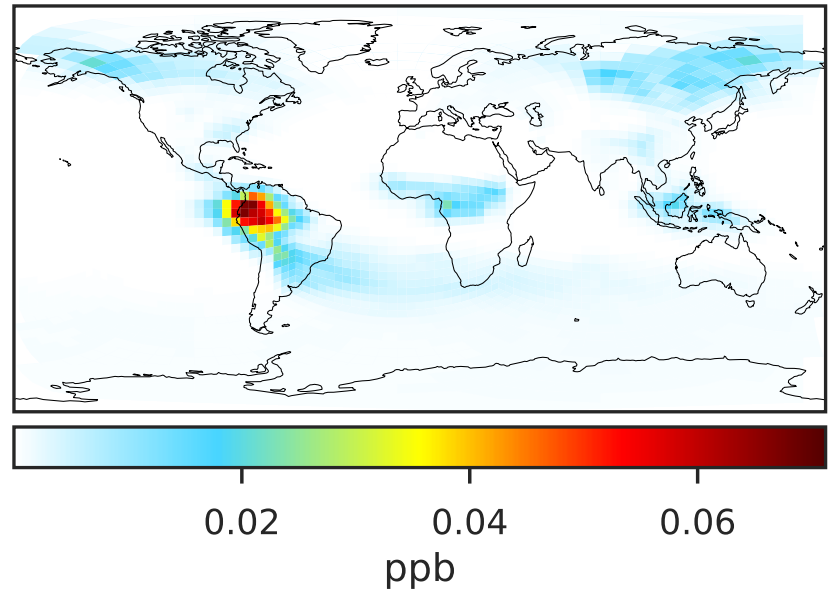
0.50 0.75 1.00 1.50 2.00  
unitless

# SpeciesConcVV\_ETHP (Jul2019)

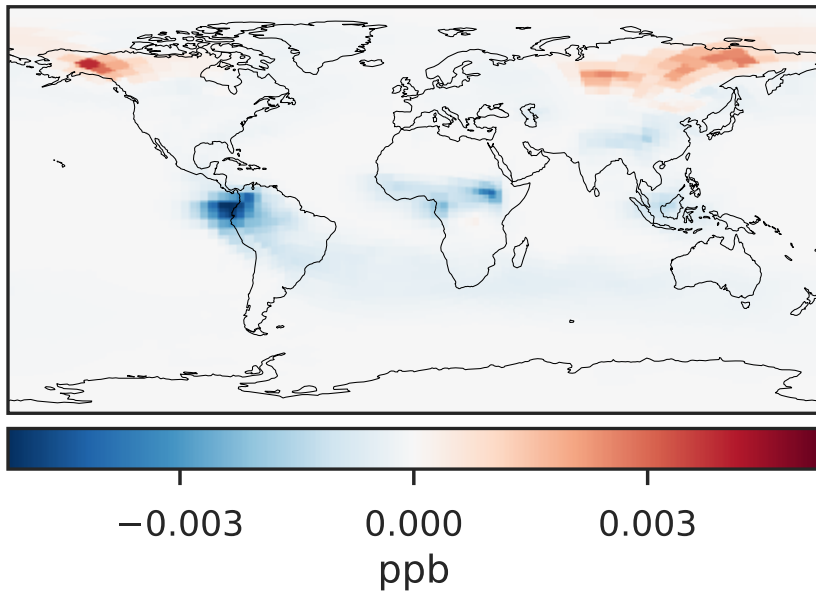
GCHP\_14.0.0 (Ref)  
c24



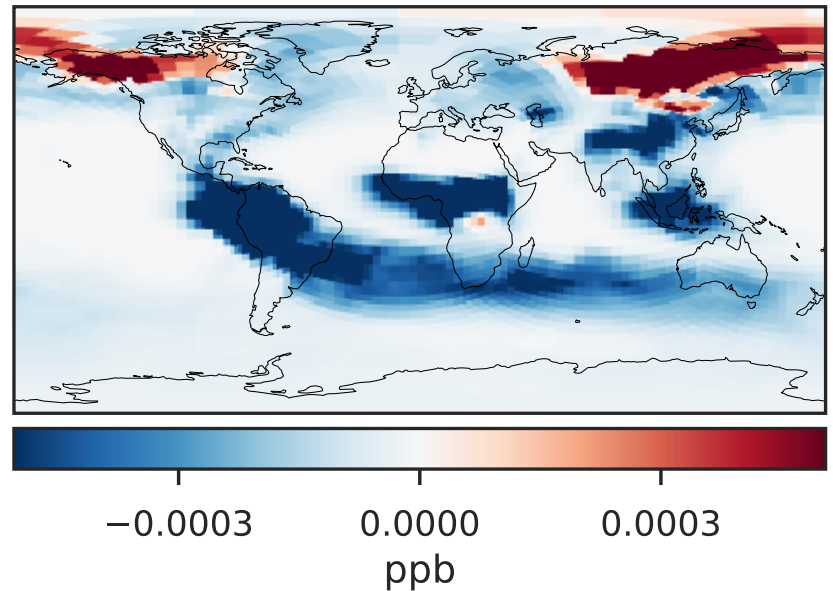
GCHP\_14.2.0 (Dev)  
c24



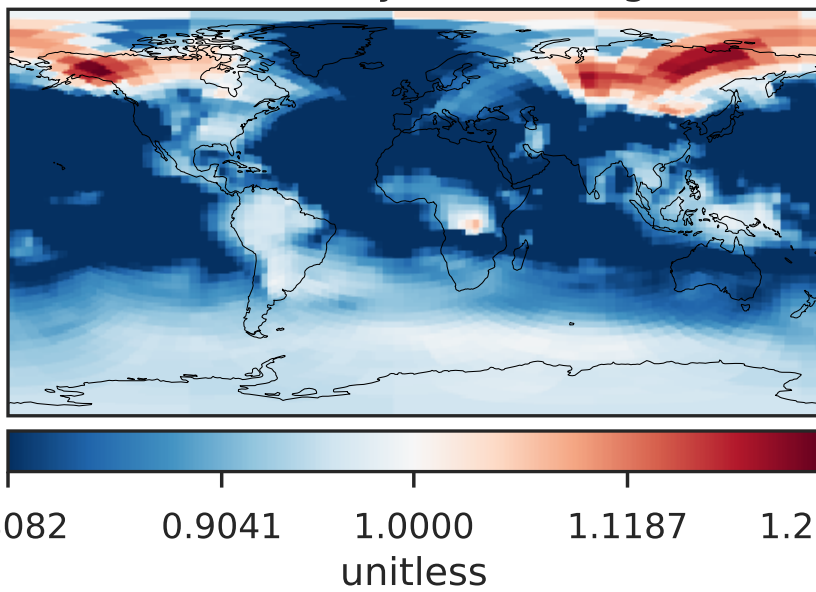
Difference (1x1.25)  
Dev - Ref, Dynamic Range



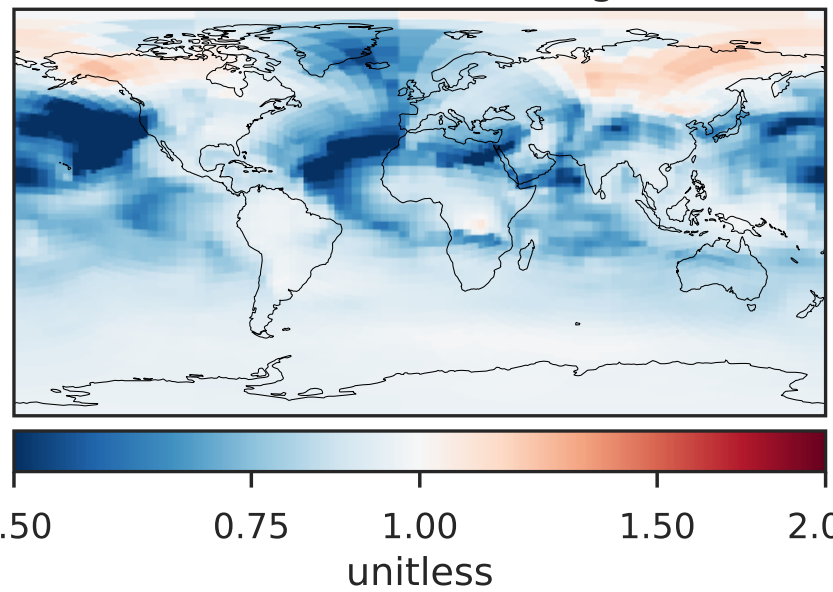
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

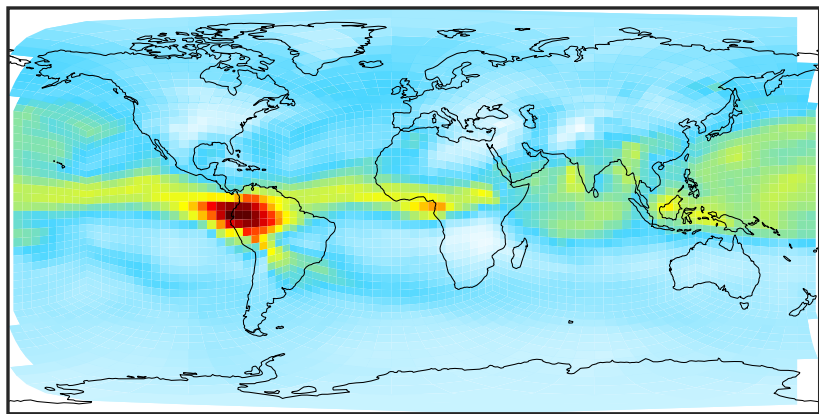


Ratio (1x1.25)  
Dev/Ref, Fixed Range



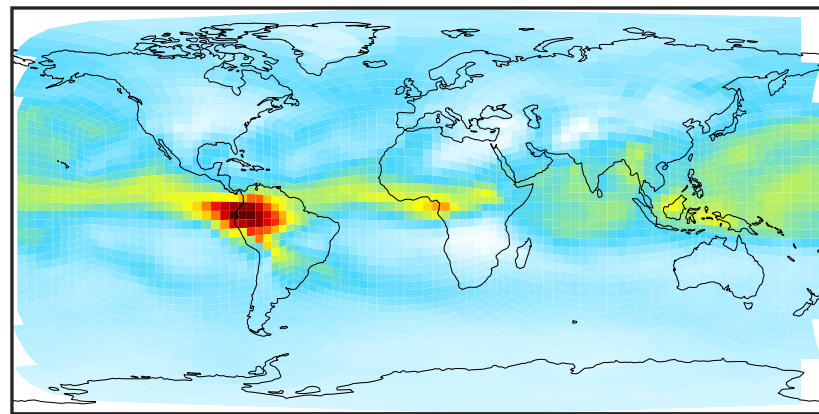
# SpeciesConcVV\_MP (Jul2019)

GCHP\_14.0.0 (Ref)  
c24



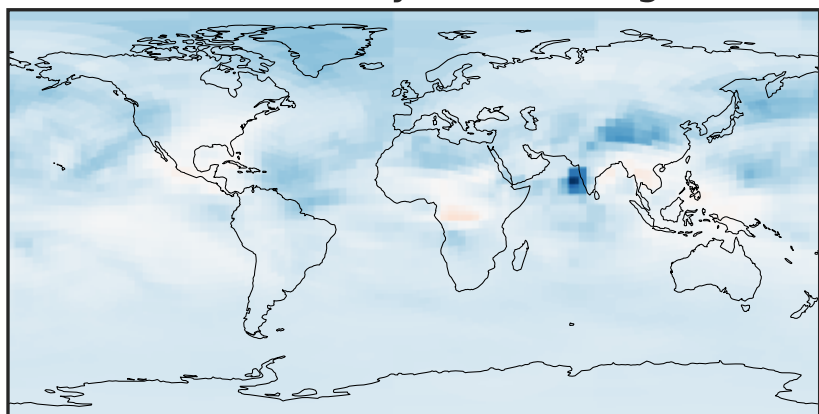
0.073 0.256 0.512 0.768 1.097  
ppb

GCHP\_14.2.0 (Dev)  
c24



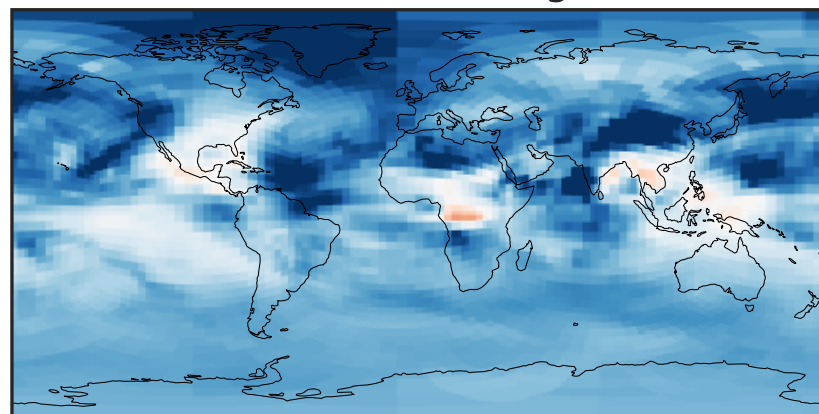
0.073 0.256 0.512 0.768 1.097  
ppb

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



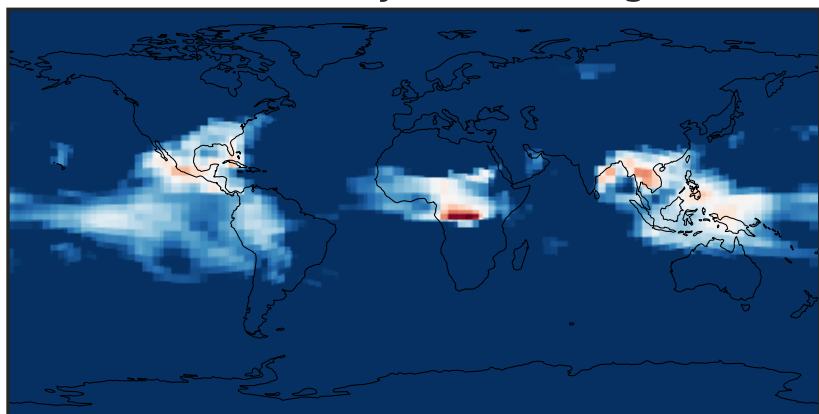
-0.0885 -0.0443 0.0000 0.0443 0.0885  
ppb

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



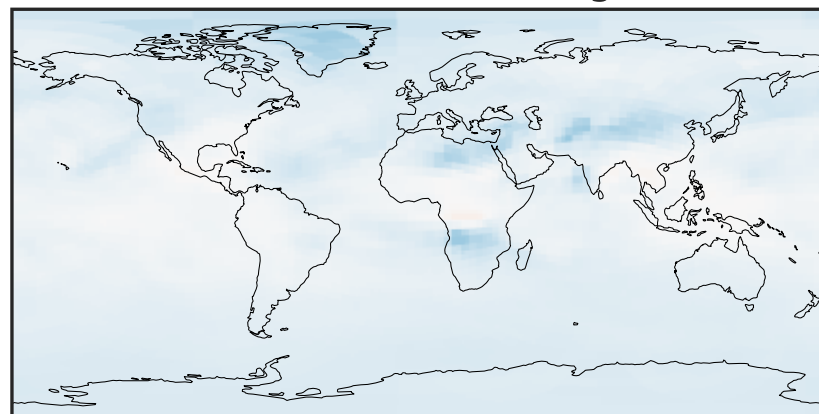
-0.02 0.00 0.02  
ppb

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



0.96438 0.98219 1.00000 1.01847 1.03694  
unitless

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



0.50 0.75 1.00 1.50 2.00  
unitless