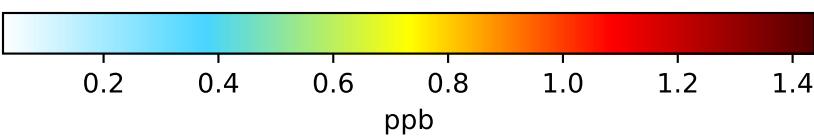
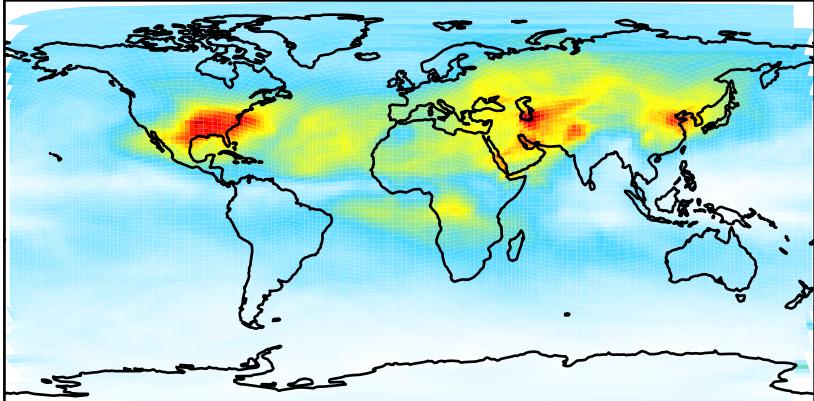
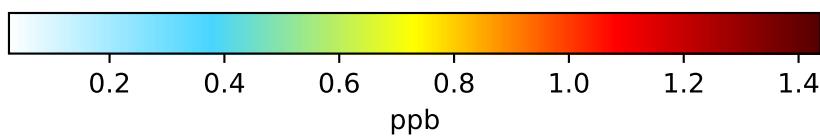
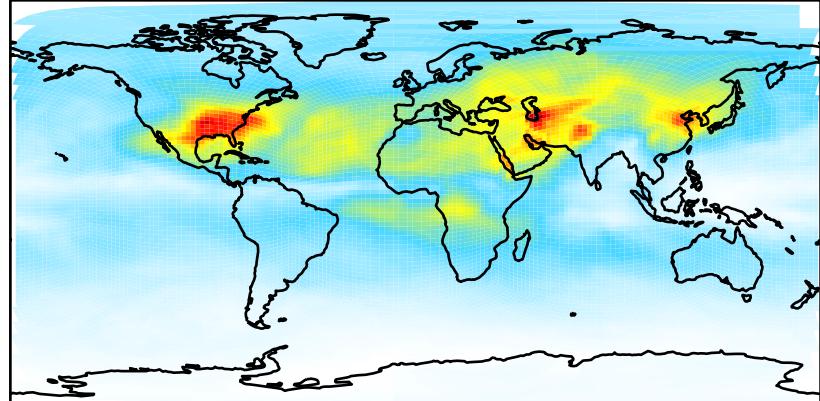


SpeciesConc_NOy

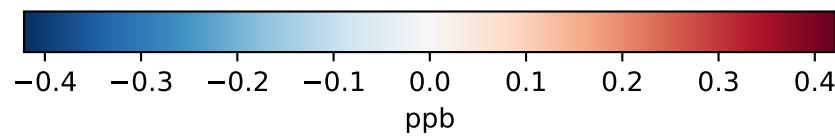
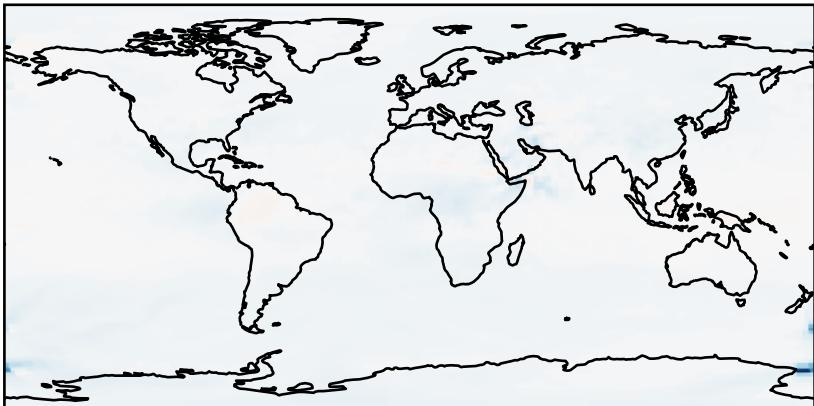
GCHP_12.7.0 (Ref)
c48



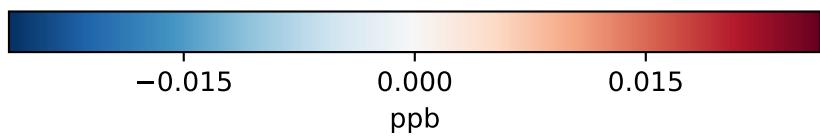
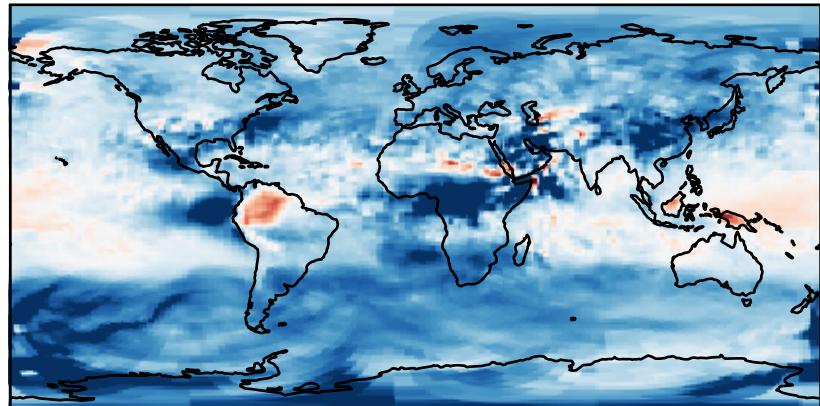
GCHP_12.8.0 (Dev)
c48



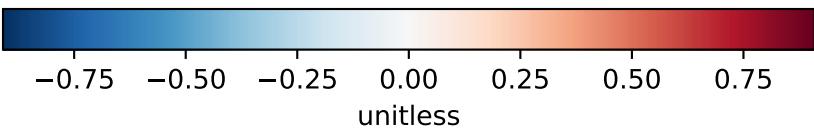
Difference (1x1.25)
Dev - Ref, Dynamic Range



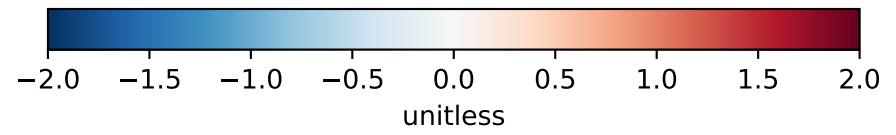
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

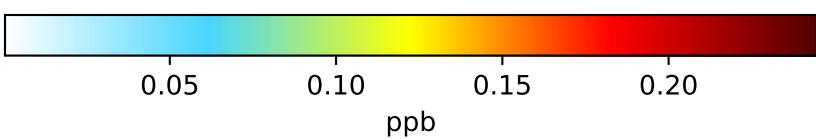
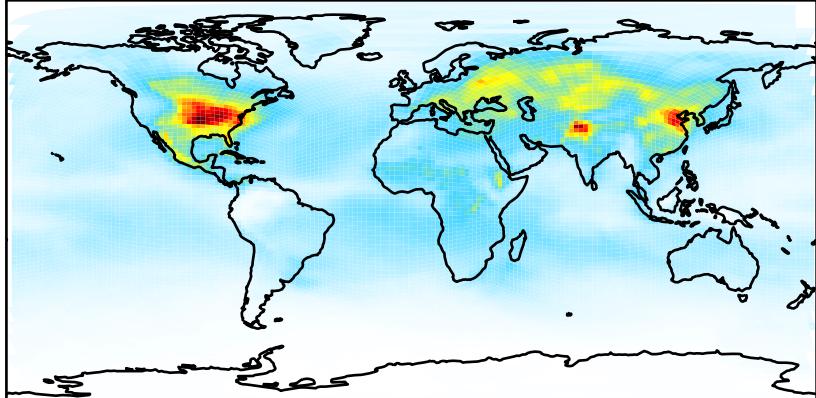


Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

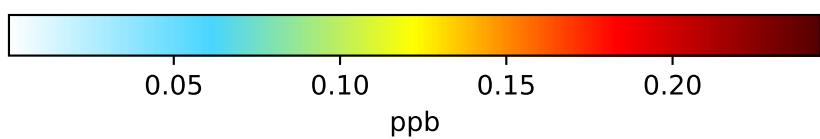
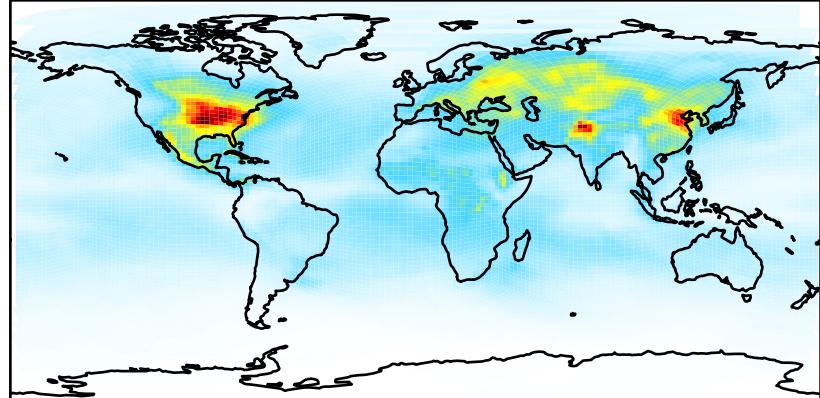


SpeciesConc_NOx

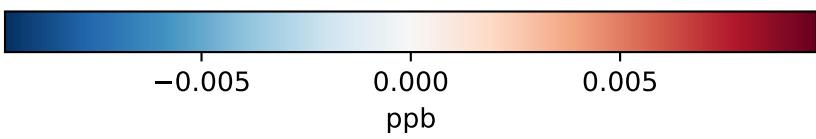
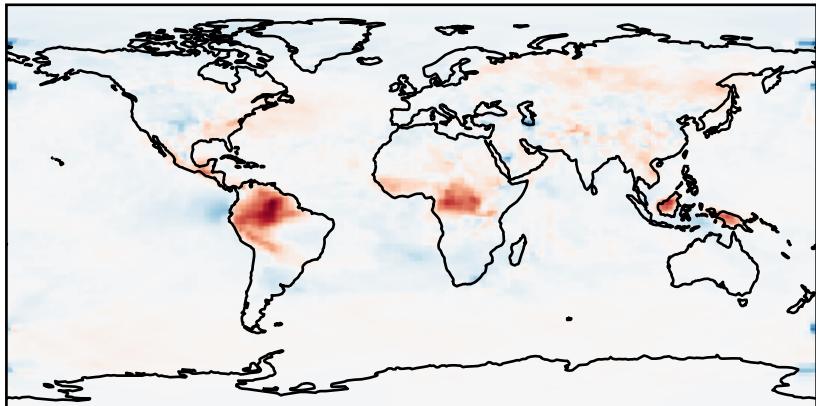
GCHP_12.7.0 (Ref)
c48



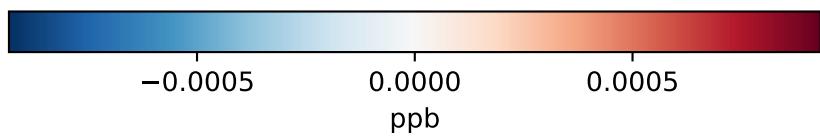
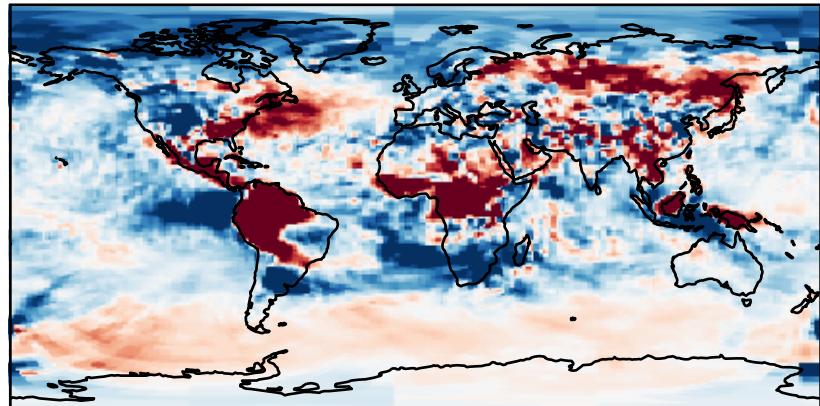
GCHP_12.8.0 (Dev)
c48



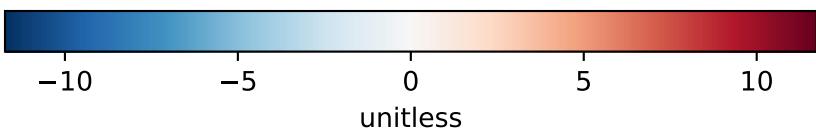
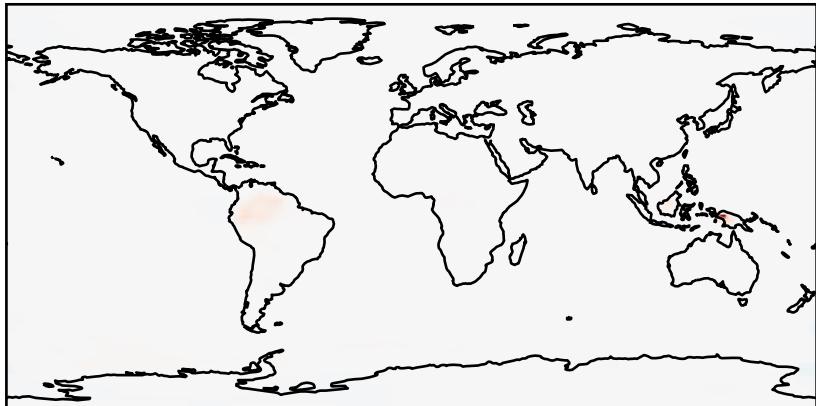
Difference (1x1.25)
Dev - Ref, Dynamic Range



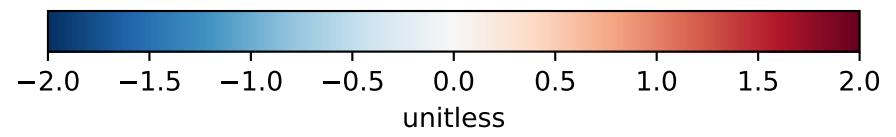
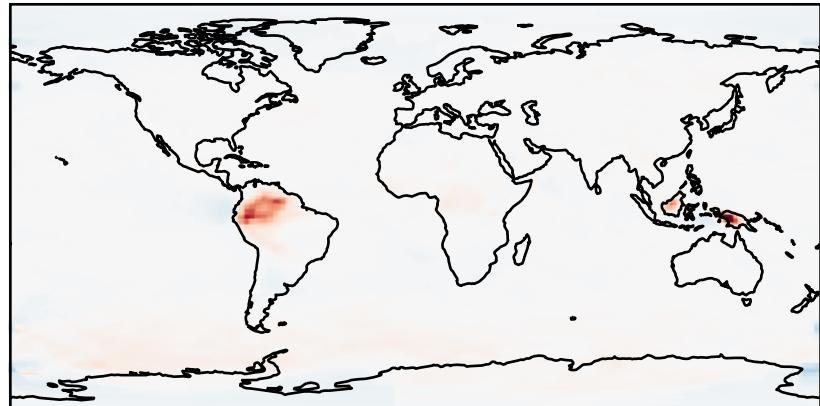
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

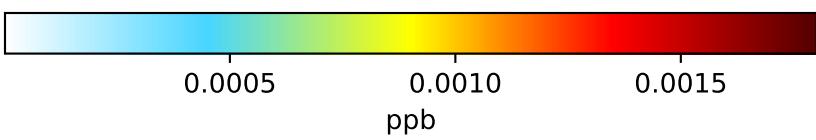
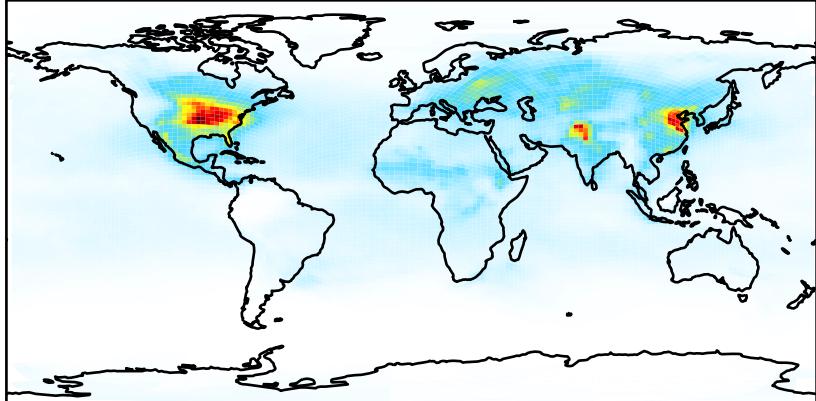


Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

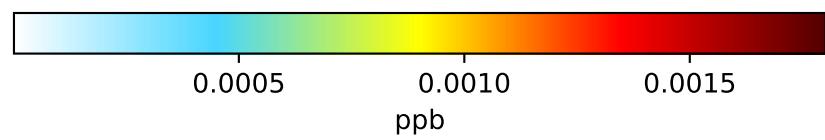
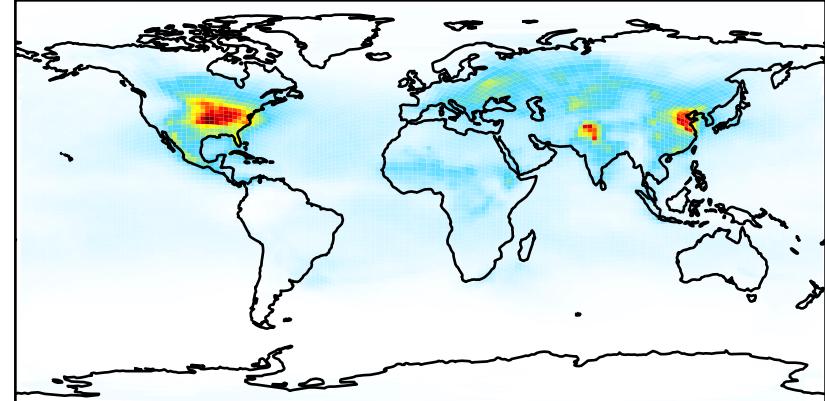


SpeciesConc_HNO2

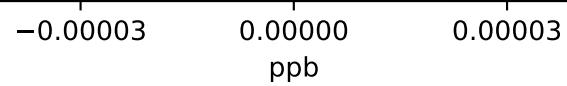
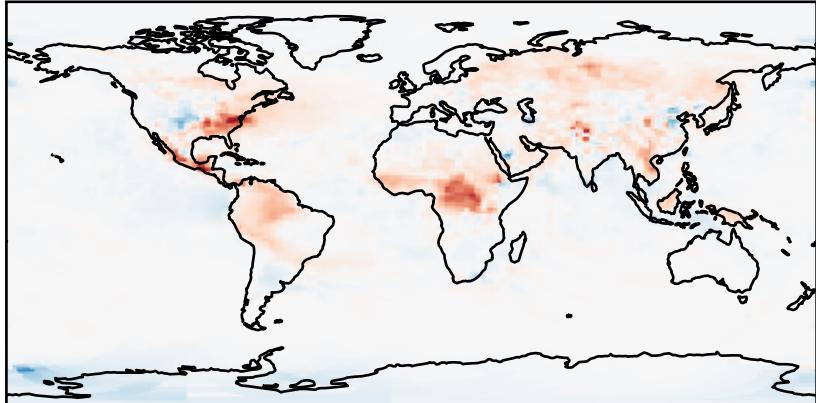
GCHP_12.7.0 (Ref)
c48



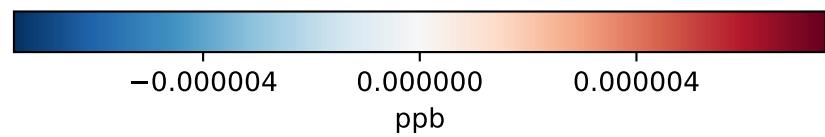
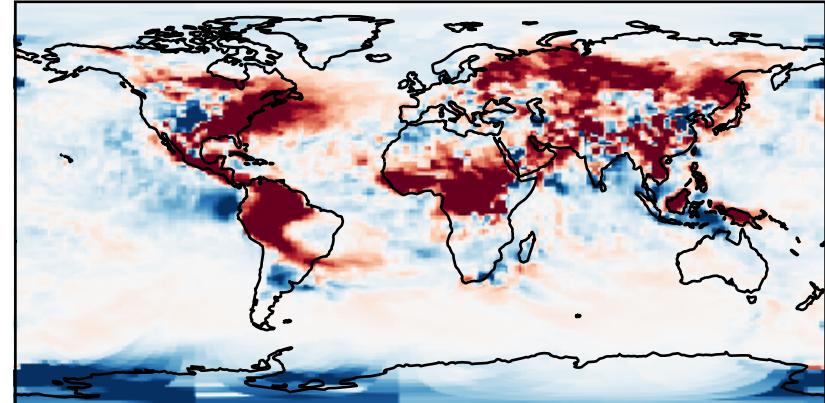
GCHP_12.8.0 (Dev)
c48



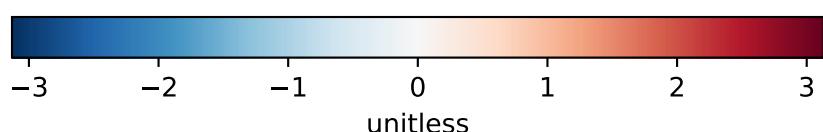
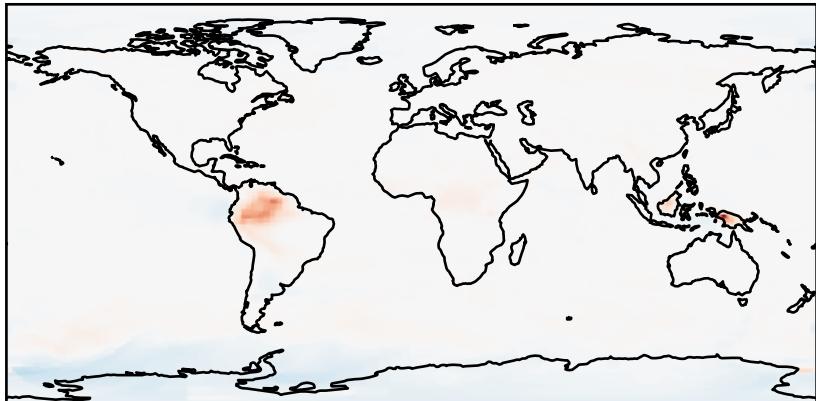
Difference (1x1.25)
Dev - Ref, Dynamic Range



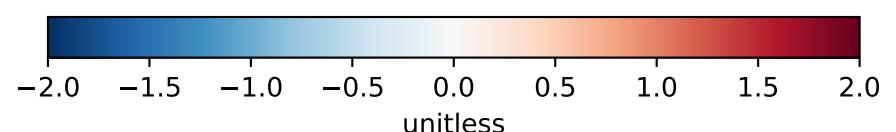
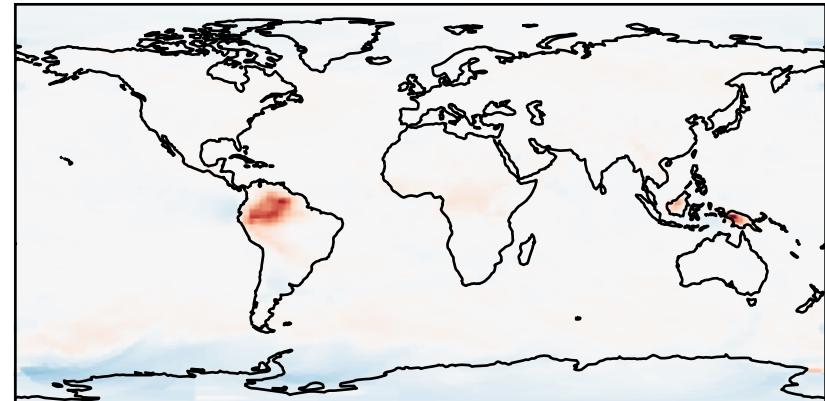
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

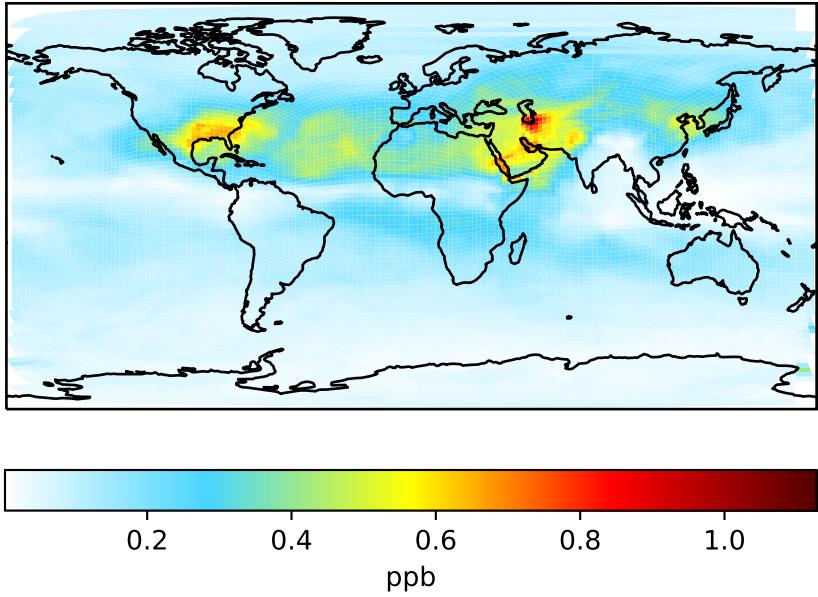


Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

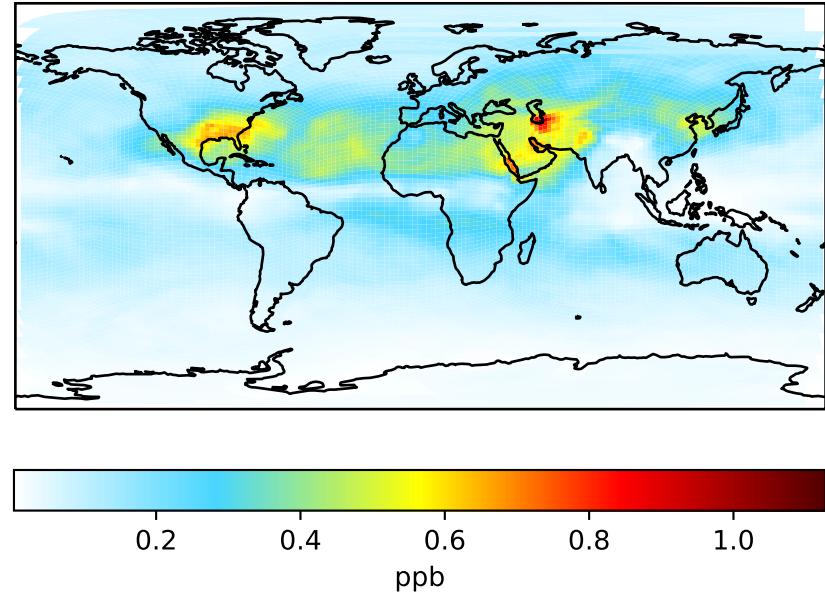


SpeciesConc_HNO3

GCHP_12.7.0 (Ref)
c48



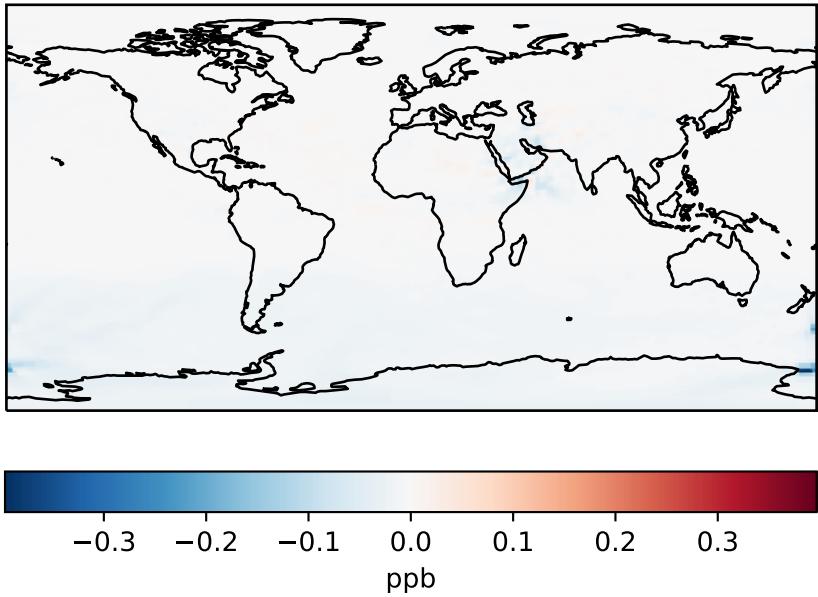
GCHP_12.8.0 (Dev)
c48



0.2 0.4 0.6 0.8 1.0
ppb

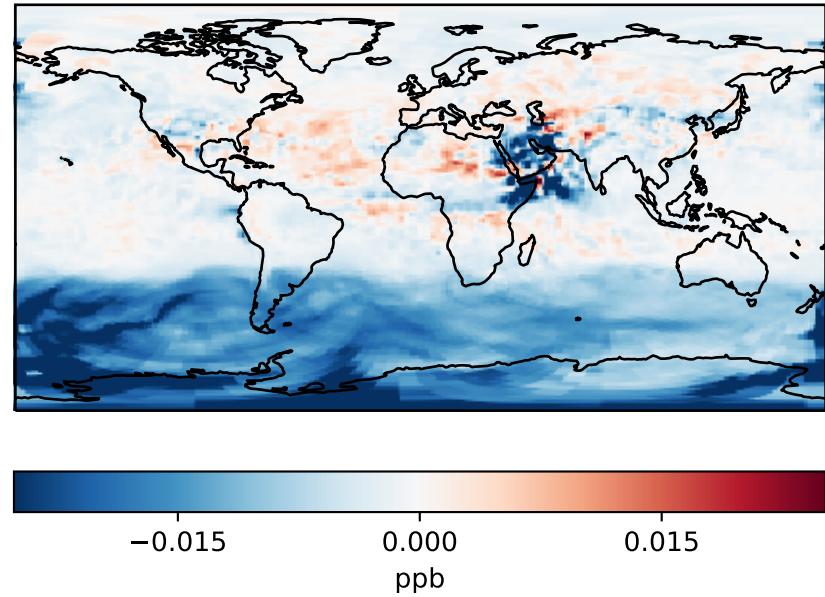
0.2 0.4 0.6 0.8 1.0
ppb

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



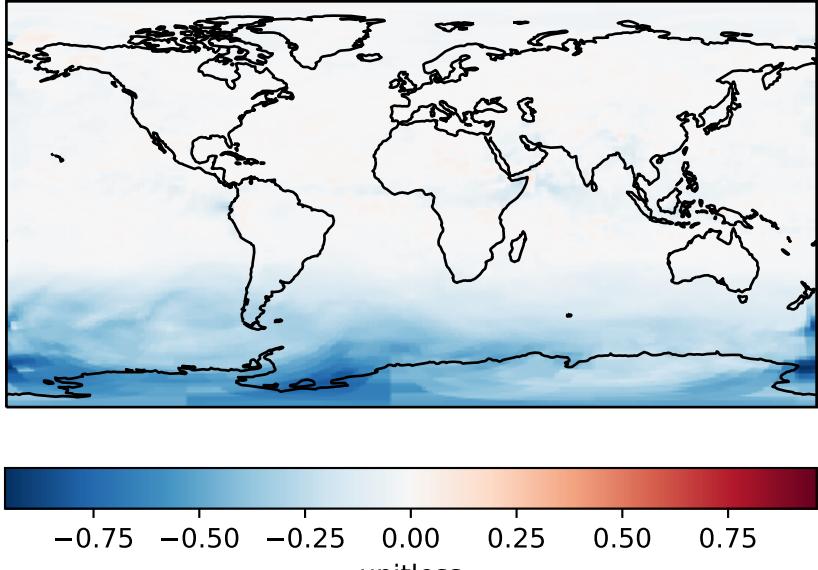
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ppb

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



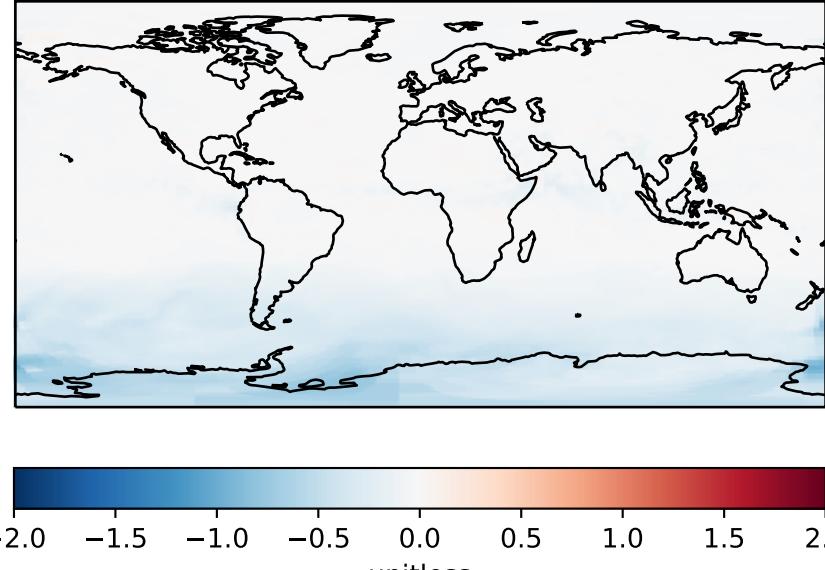
-0.015 0.000 0.015
ppb

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



-0.75 -0.50 -0.25 0.00 0.25 0.50 0.75
unitless

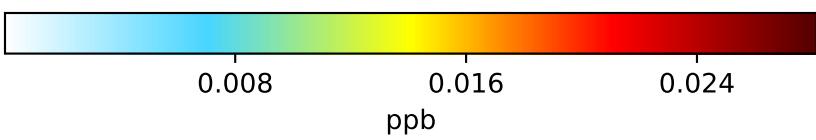
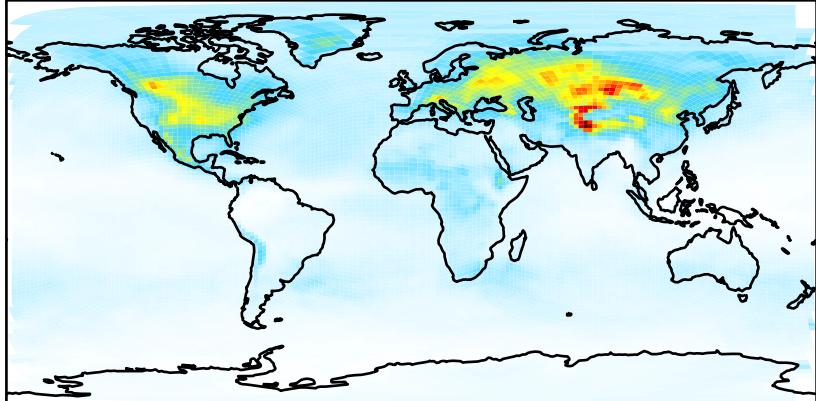
Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



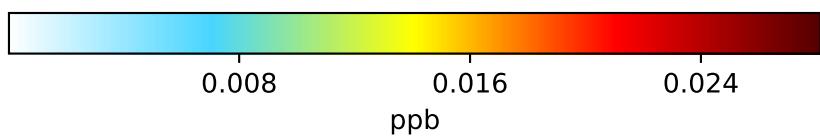
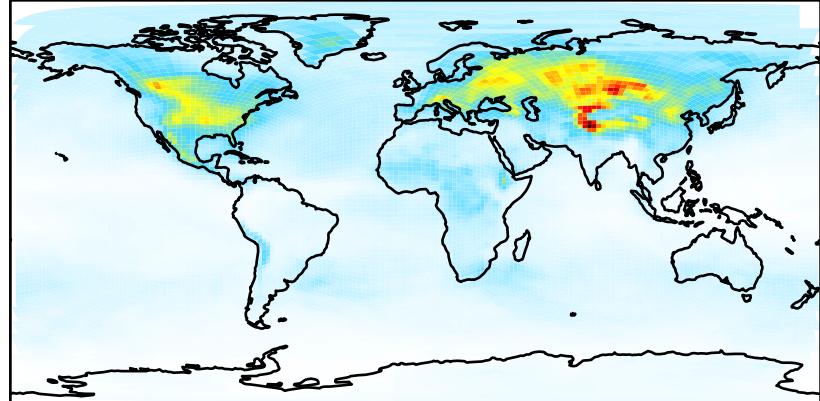
-2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0
unitless

SpeciesConc_HNO4

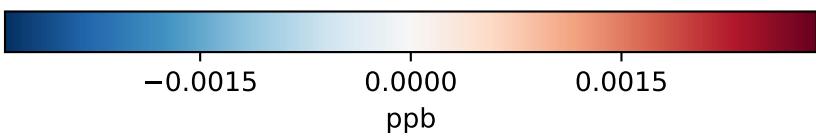
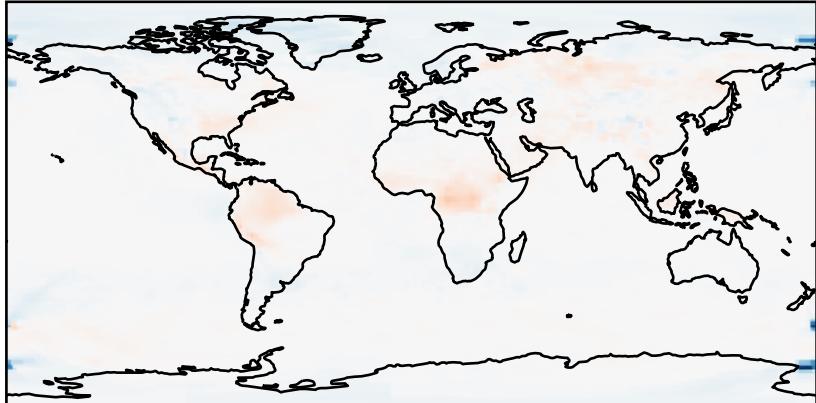
GCHP_12.7.0 (Ref)
c48



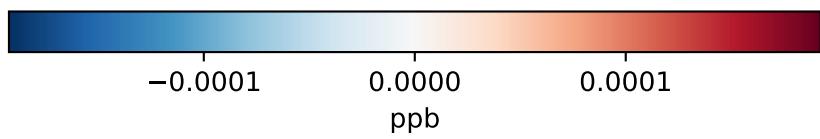
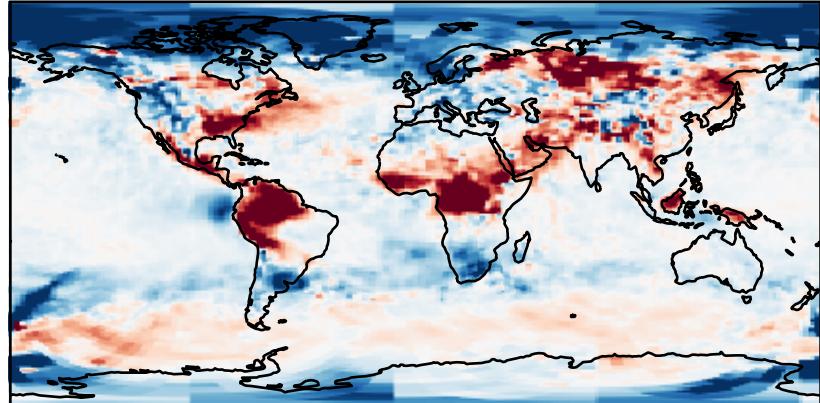
GCHP_12.8.0 (Dev)
c48



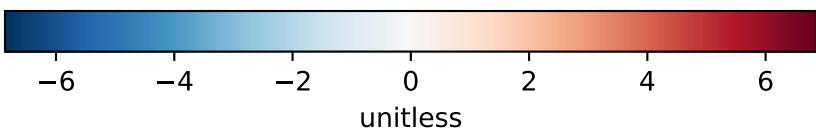
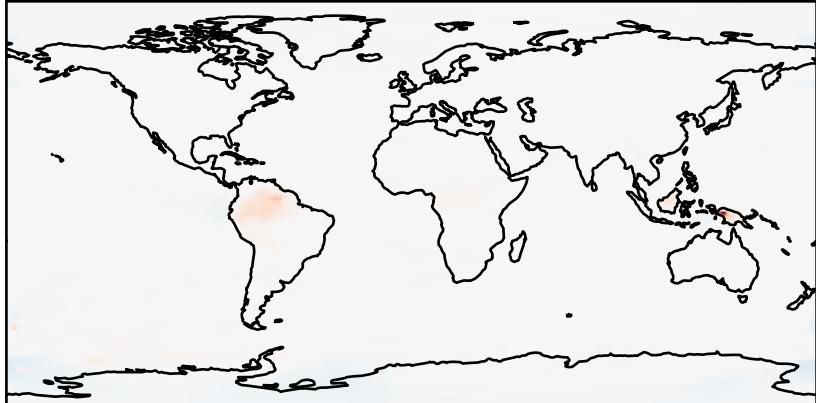
Difference (1x1.25)
Dev - Ref, Dynamic Range



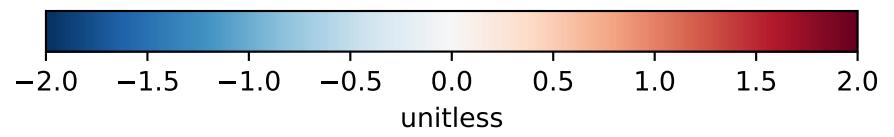
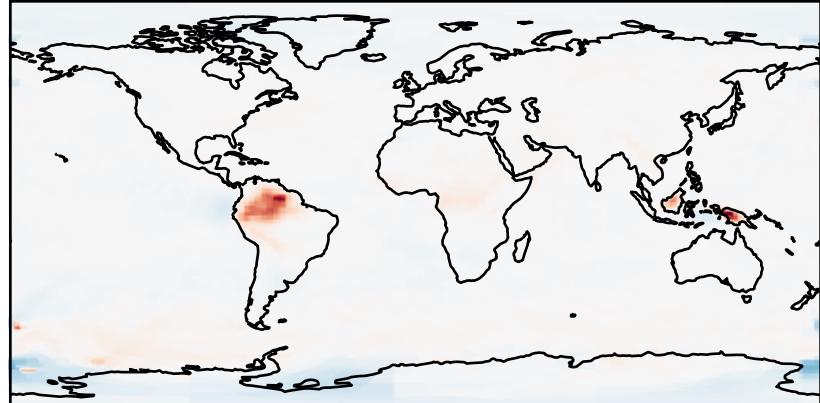
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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



Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



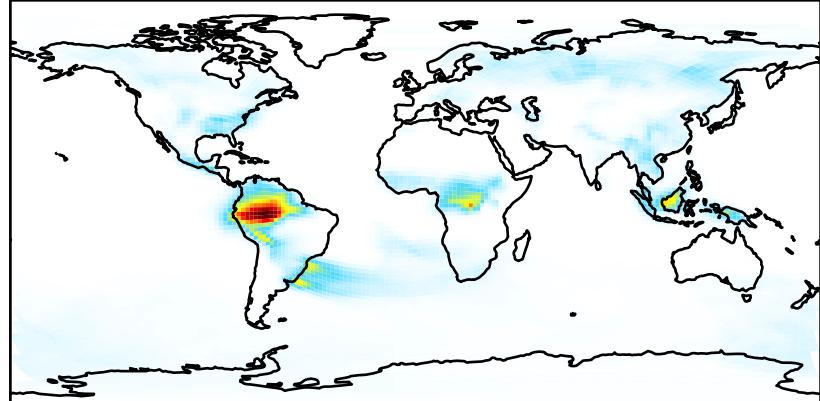
SpeciesConc_MPAN

GCHP_12.7.0 (Ref)
c48



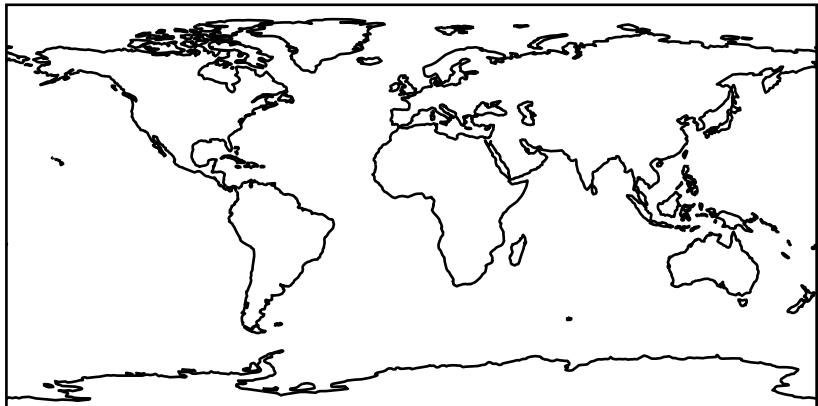
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ppb

GCHP_12.8.0 (Dev)
c48



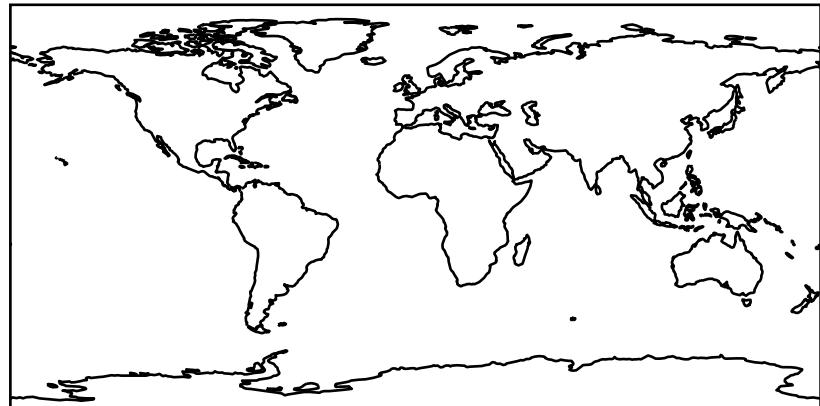
0.000 0.001 0.002 0.003
ppb

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



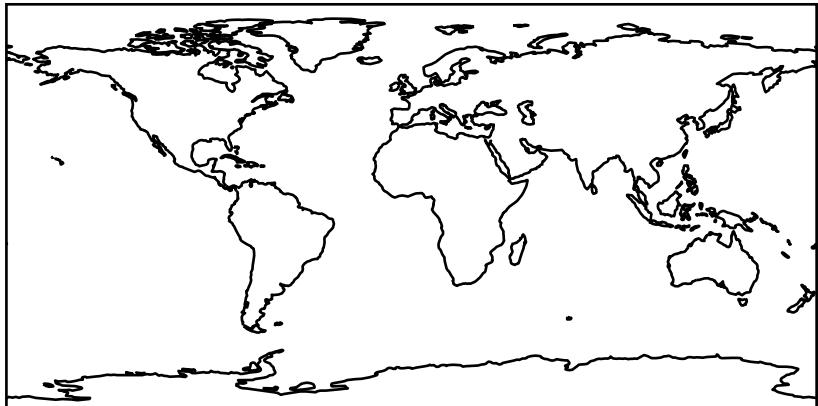
Undefined throughout domain
ppb

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



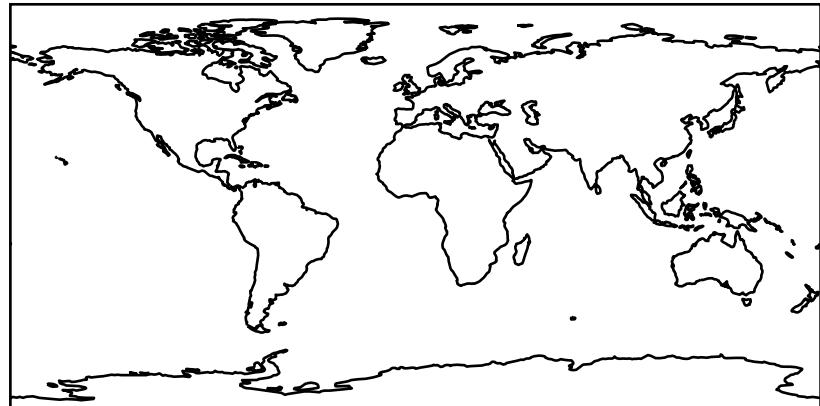
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Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range



Undefined throughout domain
unitless

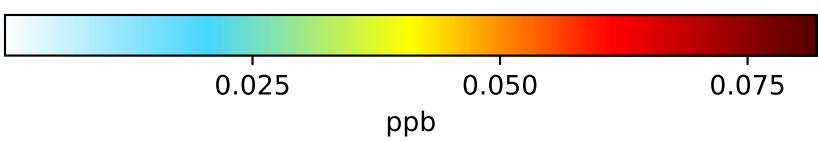
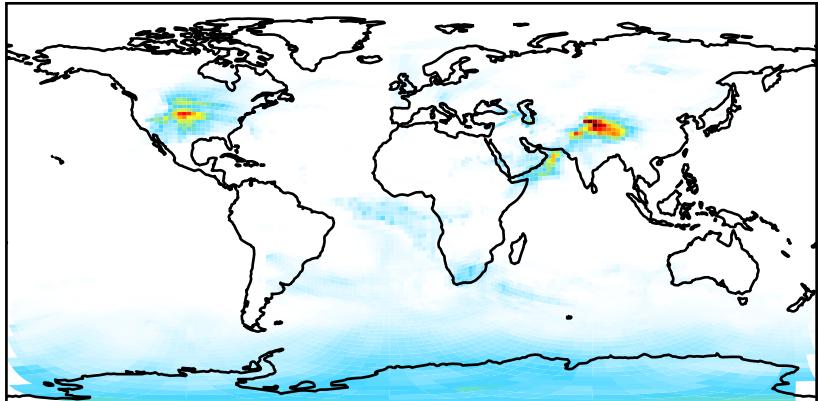
Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



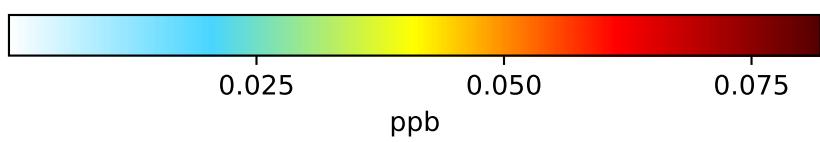
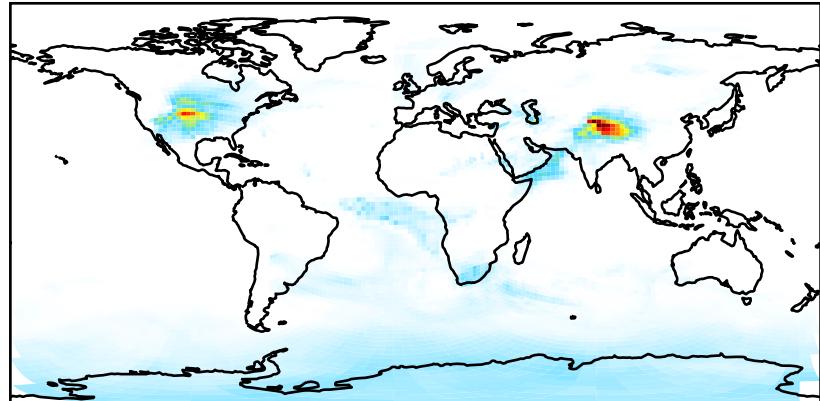
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SpeciesConc_NIT

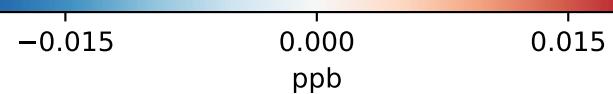
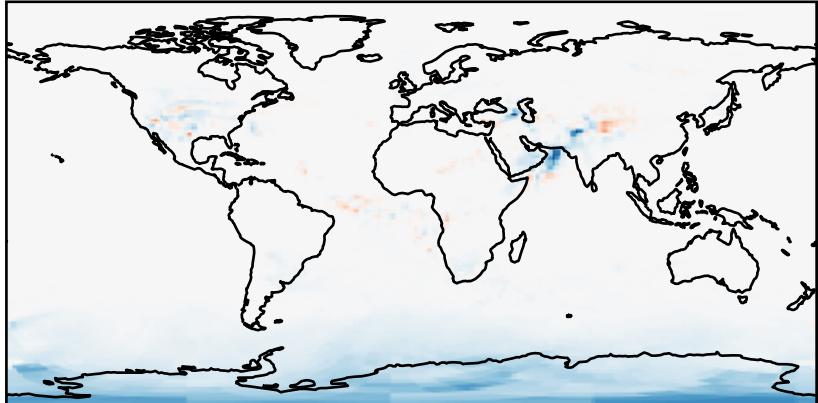
GCHP_12.7.0 (Ref)
c48



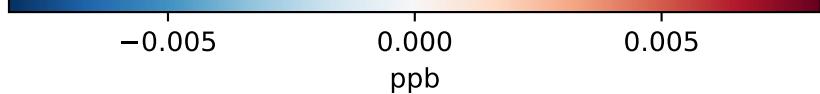
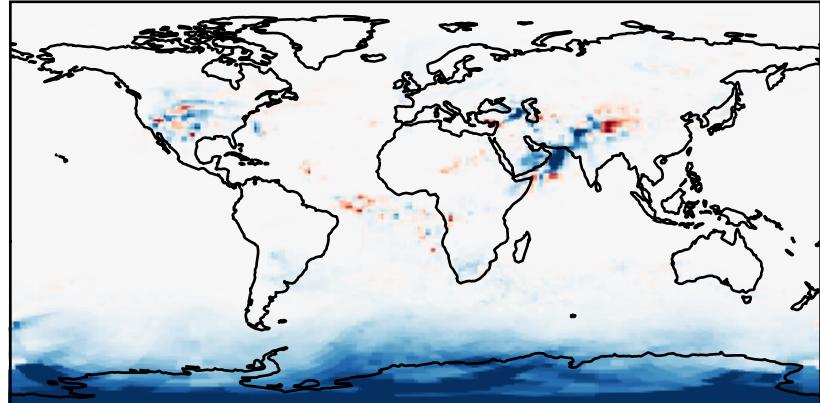
GCHP_12.8.0 (Dev)
c48



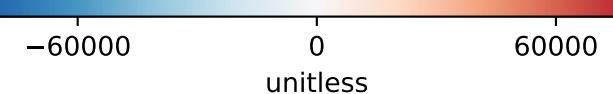
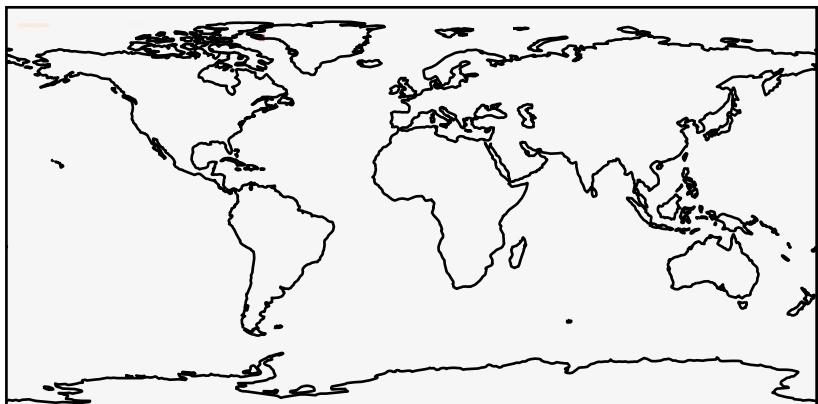
Difference (1x1.25)
Dev - Ref, Dynamic Range



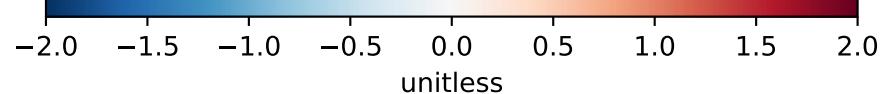
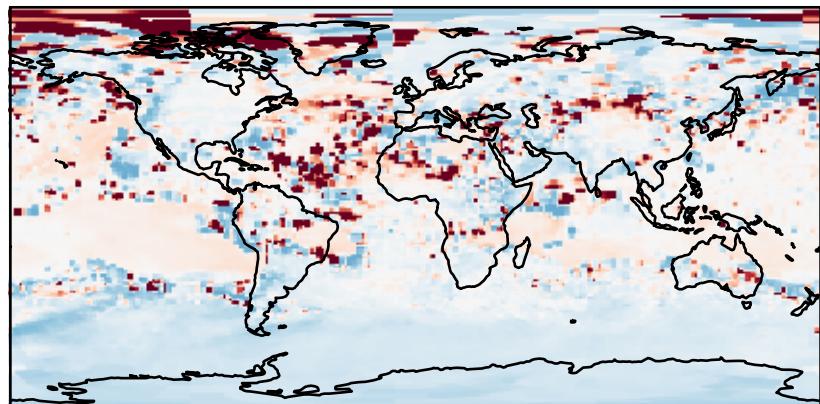
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

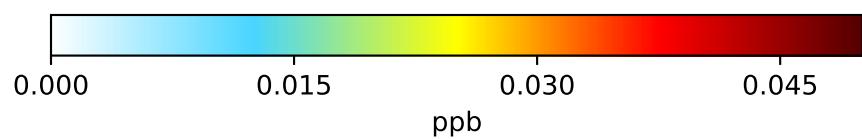
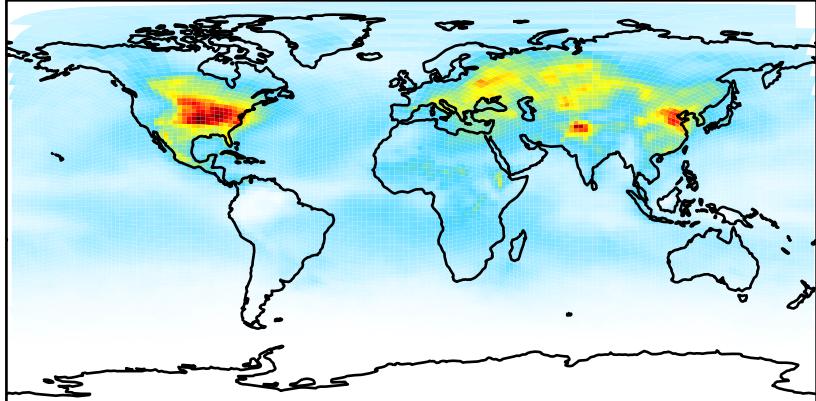


Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

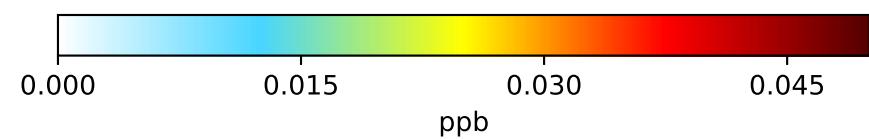
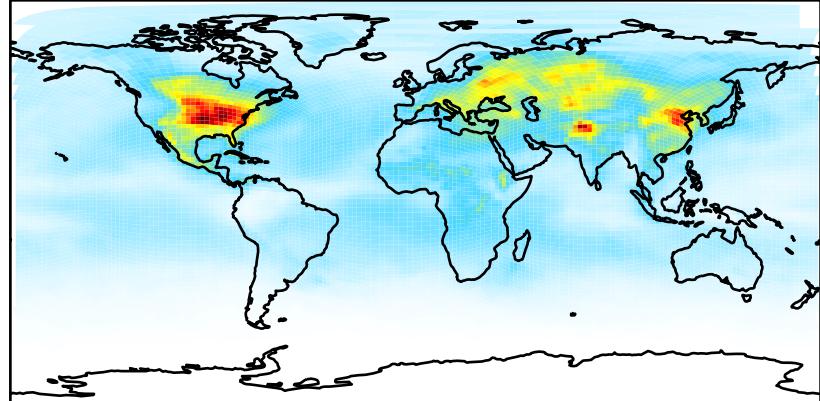


SpeciesConc_NO

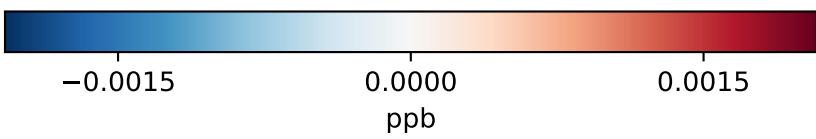
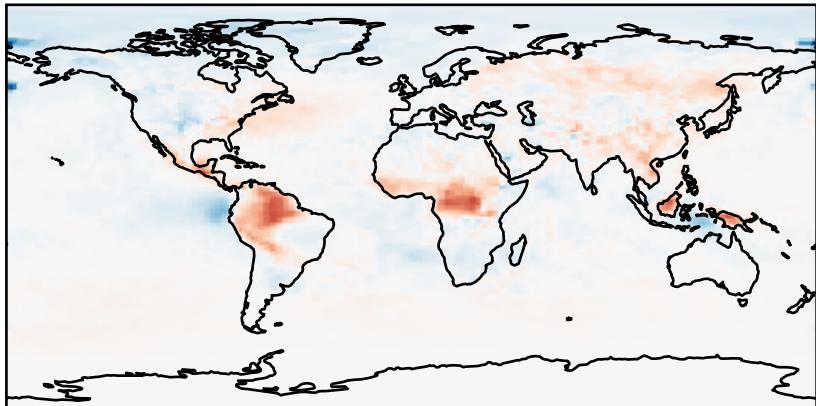
GCHP_12.7.0 (Ref)
c48



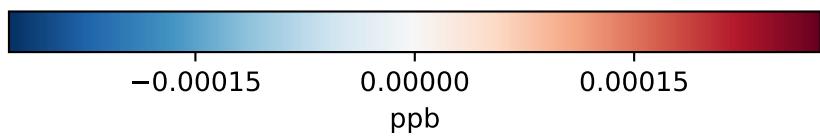
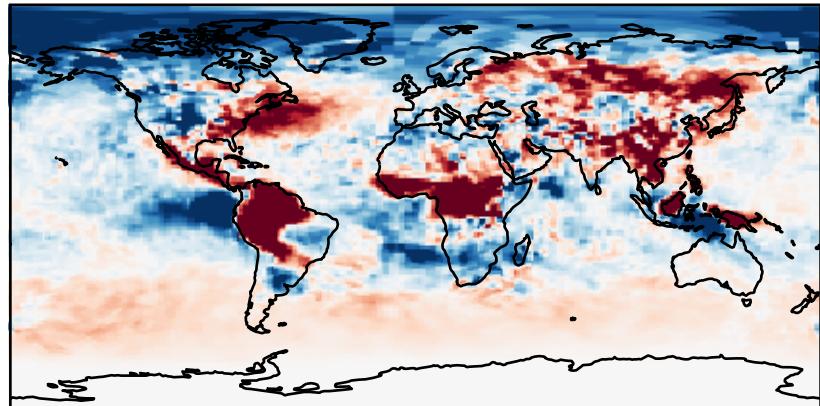
GCHP_12.8.0 (Dev)
c48



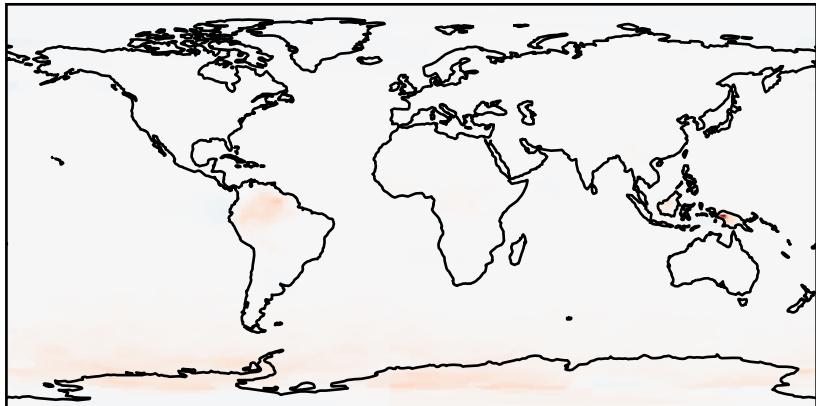
Difference (1x1.25)
Dev - Ref, Dynamic Range



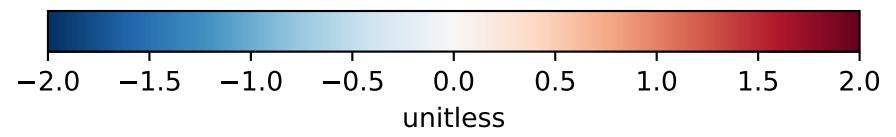
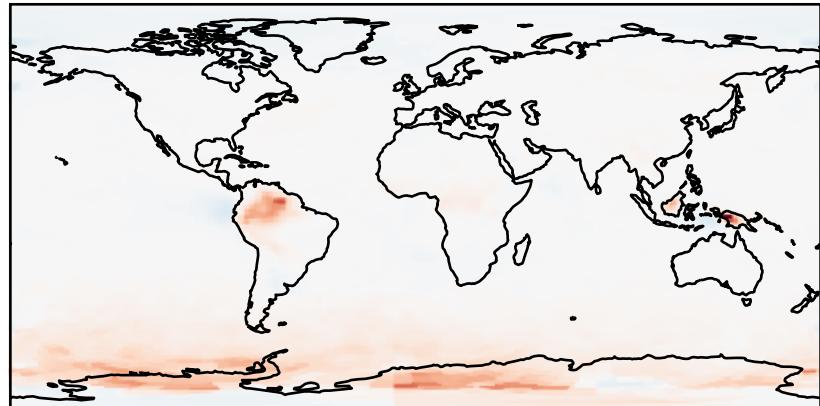
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

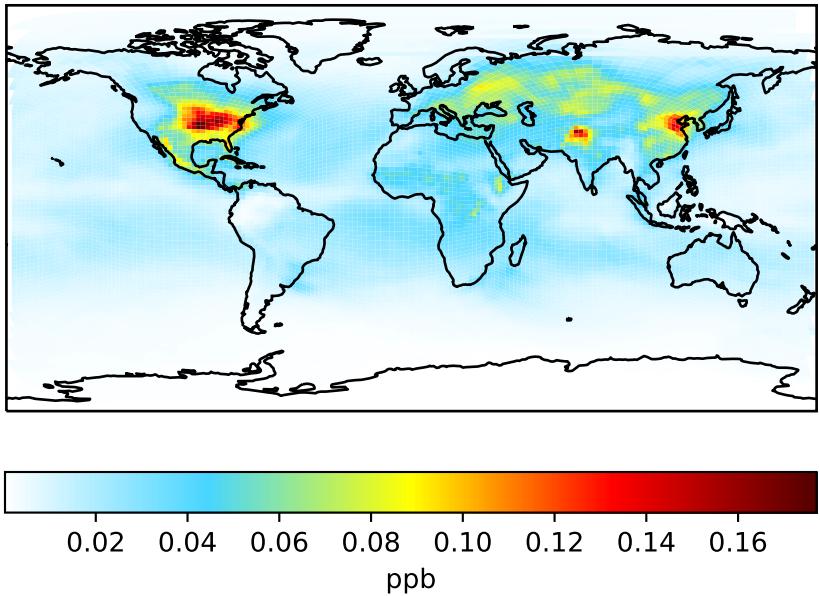


Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

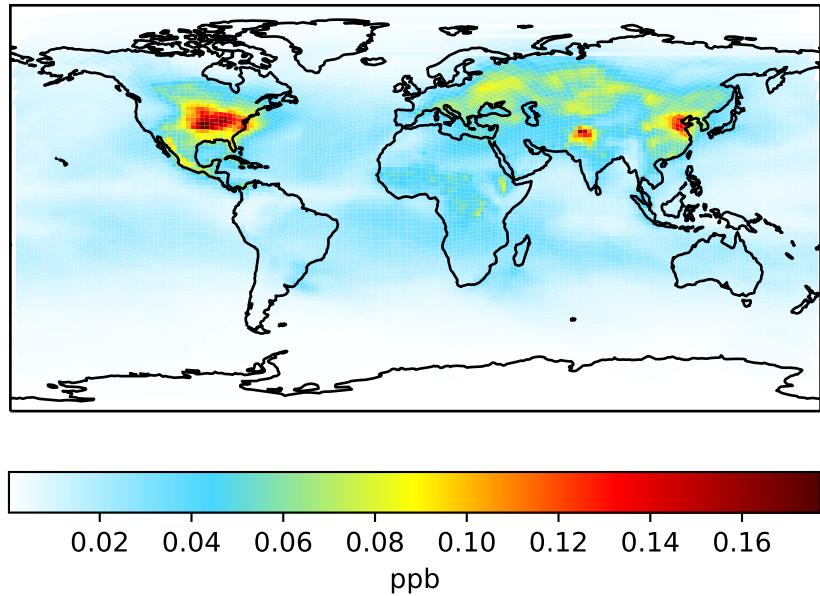


SpeciesConc_NO2

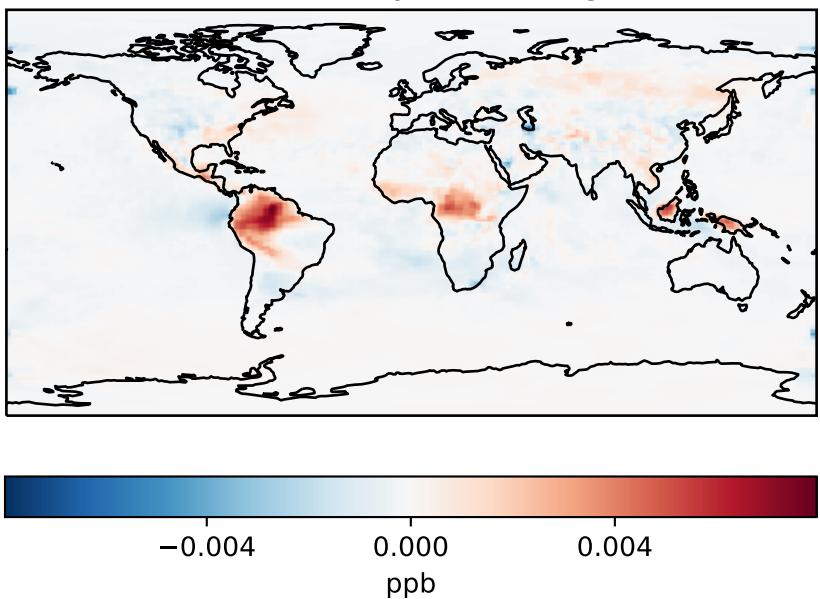
GCHP_12.7.0 (Ref)
c48



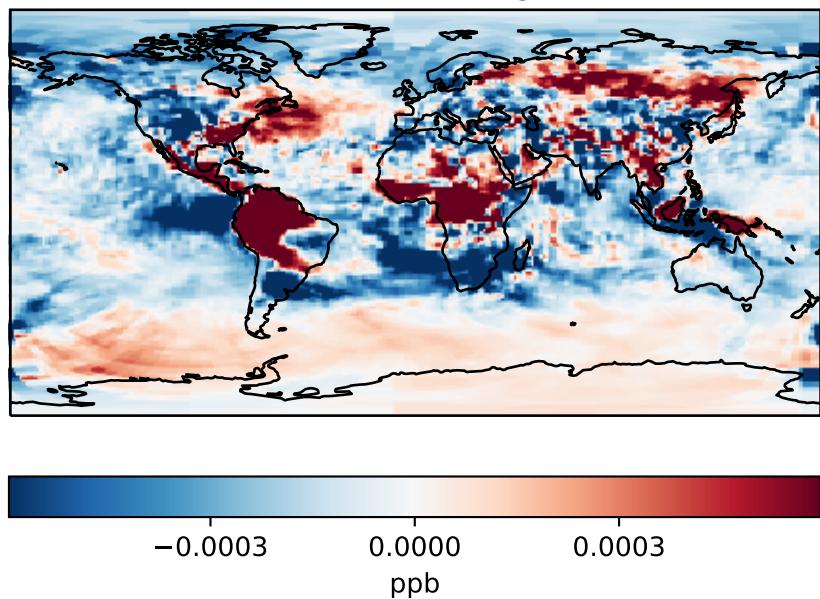
GCHP_12.8.0 (Dev)
c48



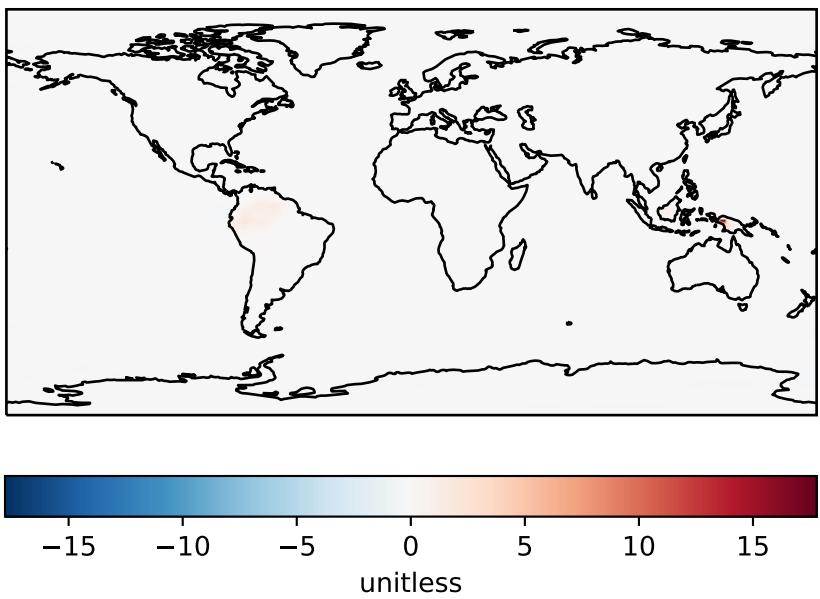
Difference (1x1.25)
Dev - Ref, Dynamic Range



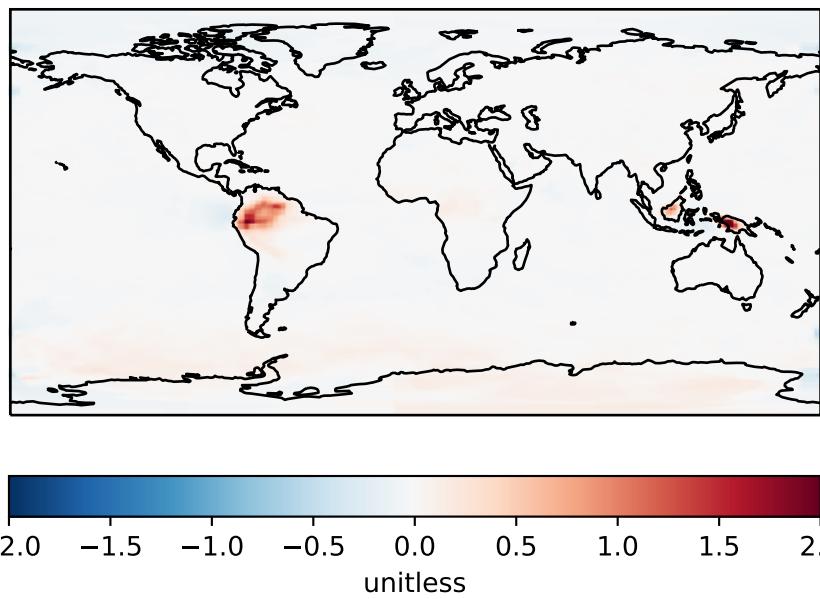
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

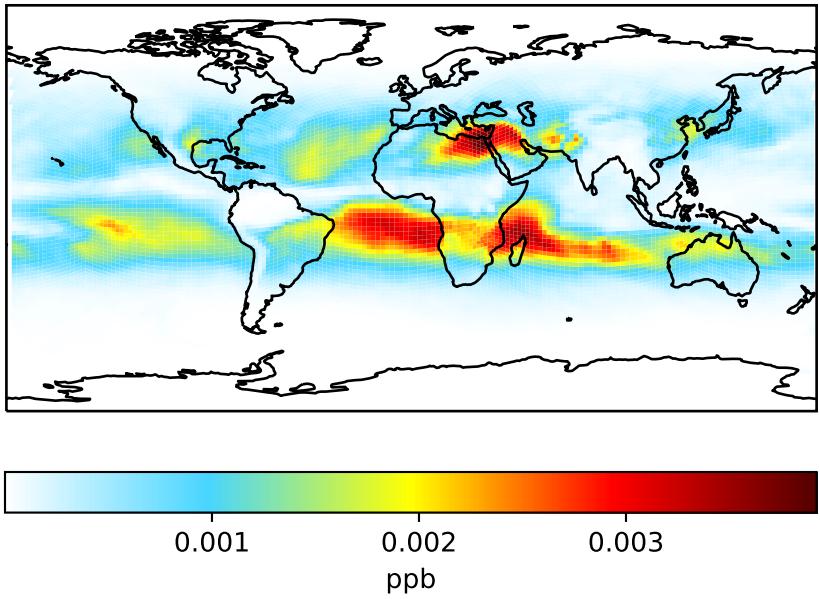


Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

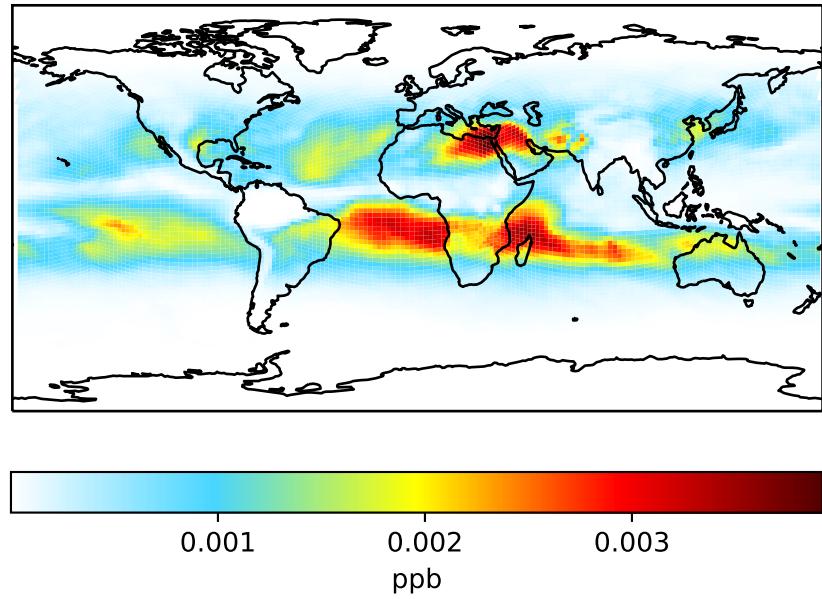


SpeciesConc_NO3

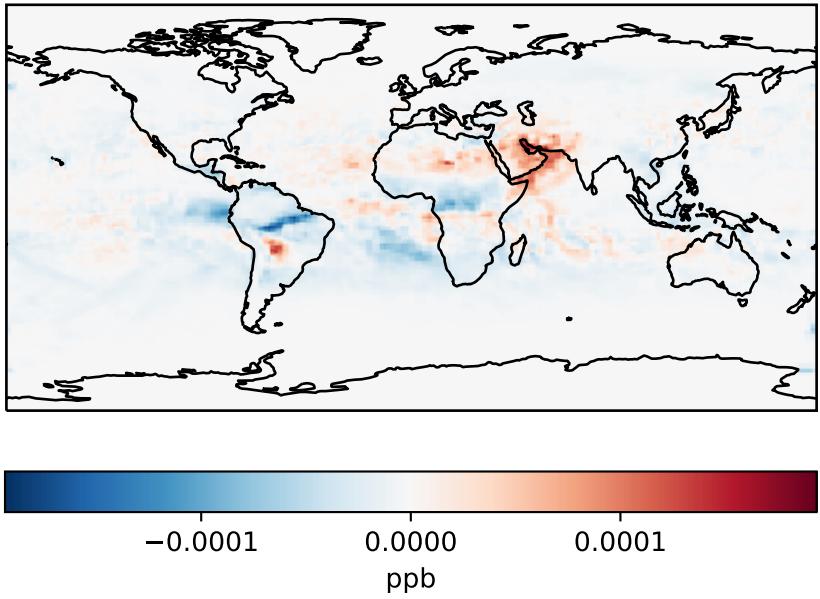
GCHP_12.7.0 (Ref)
c48



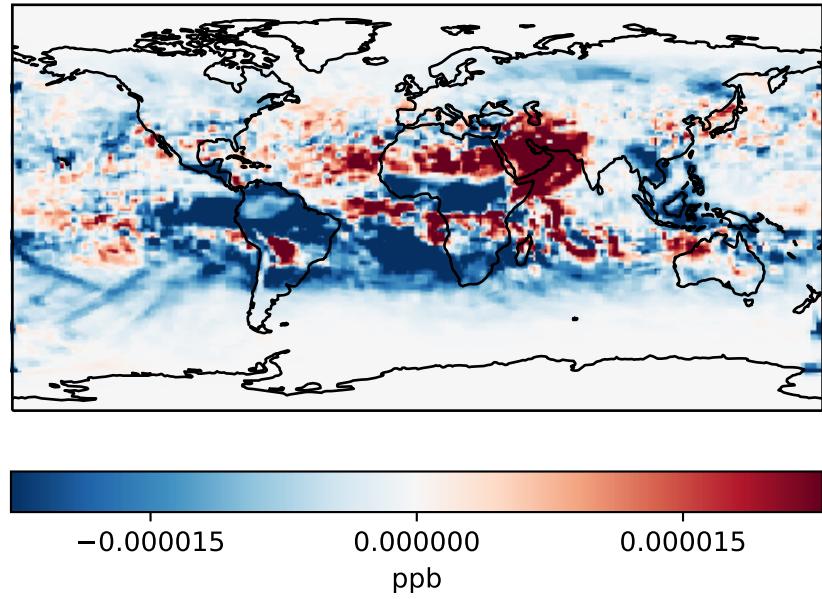
GCHP_12.8.0 (Dev)
c48



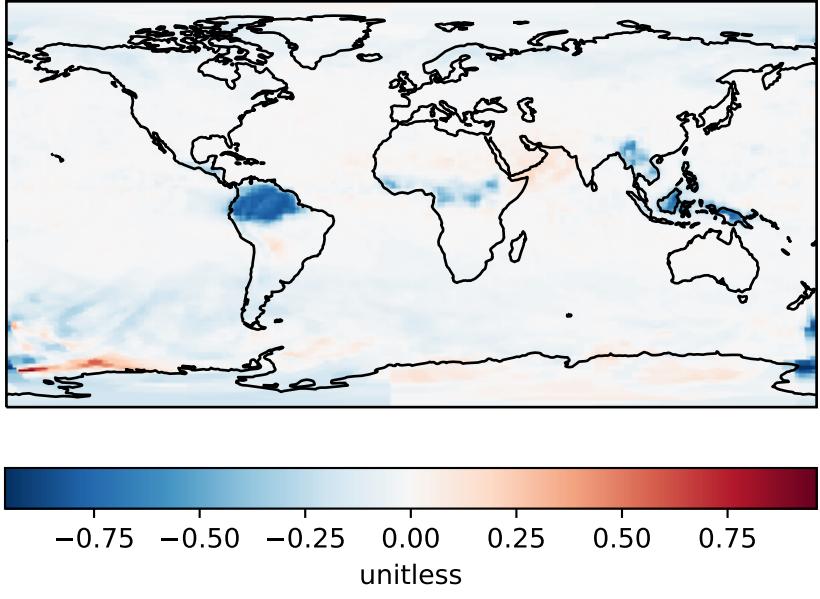
Difference (1x1.25)
Dev - Ref, Dynamic Range



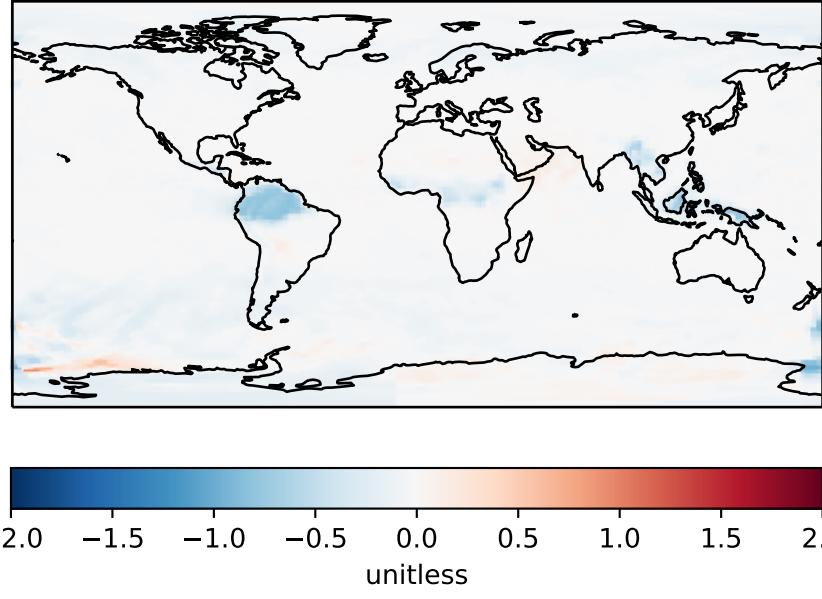
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

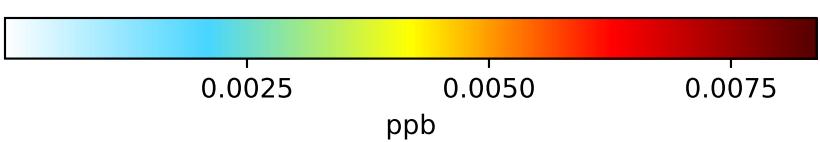
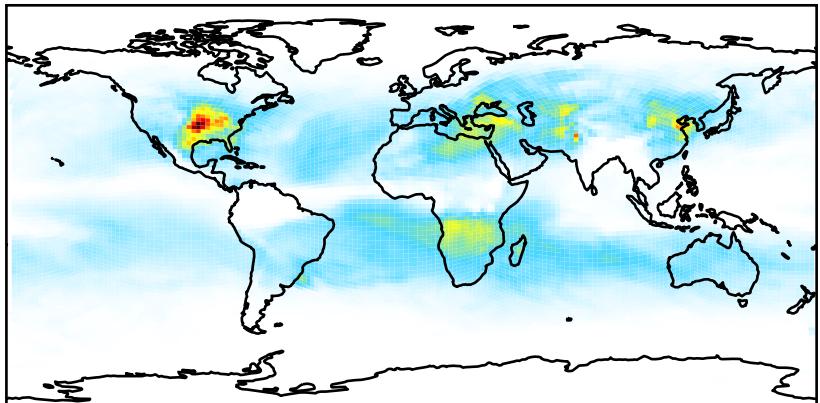


Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

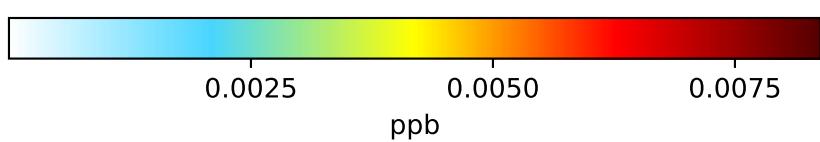
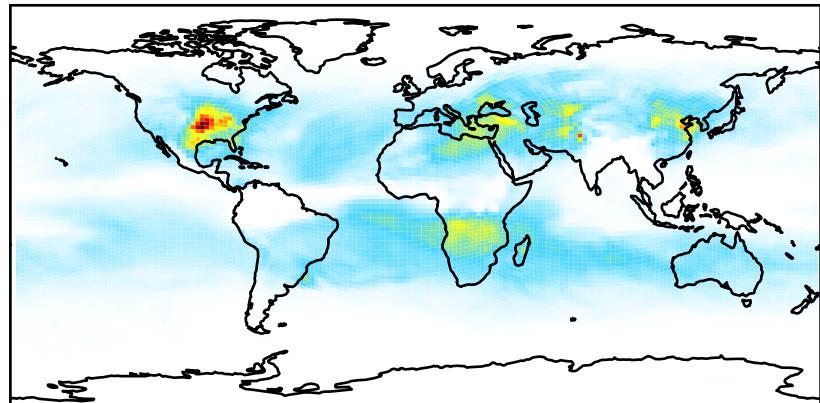


SpeciesConc_N2O5

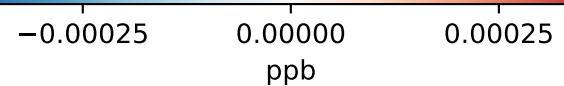
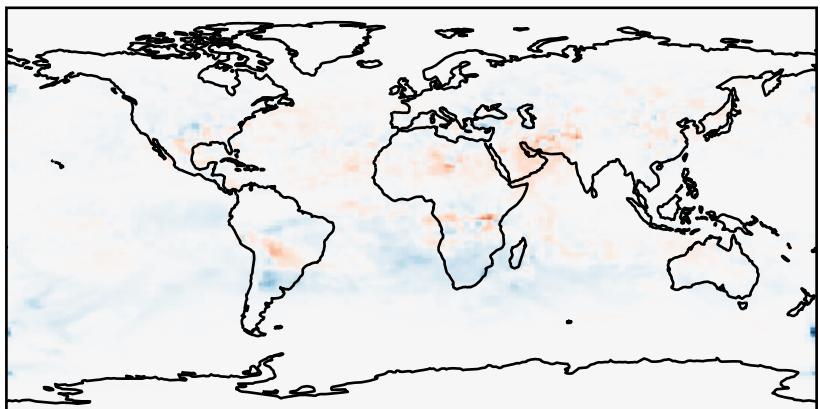
GCHP_12.7.0 (Ref)
c48



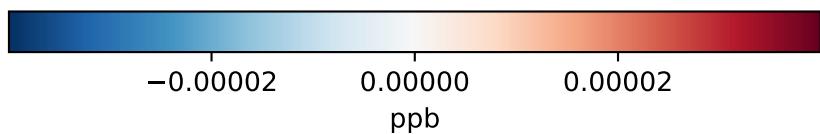
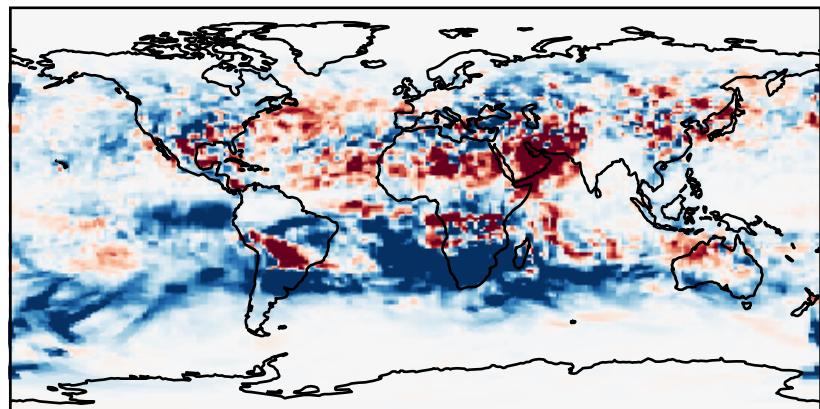
GCHP_12.8.0 (Dev)
c48



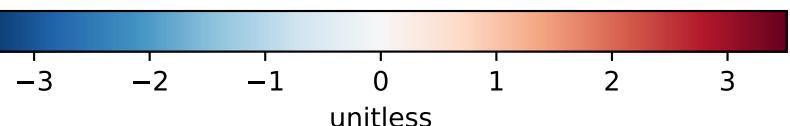
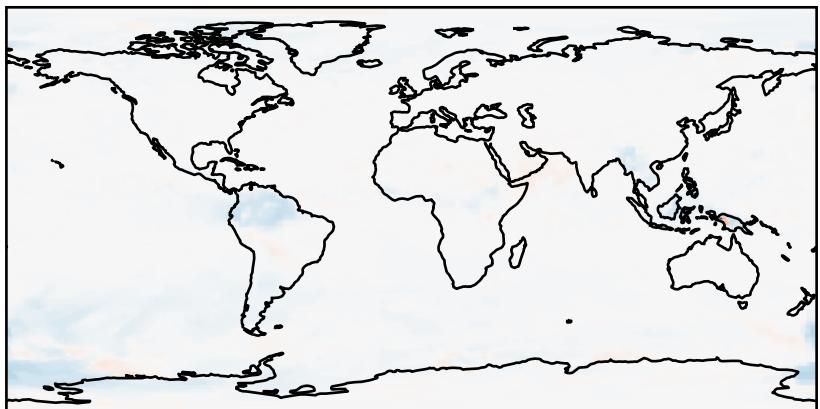
Difference (1x1.25)
Dev - Ref, Dynamic Range



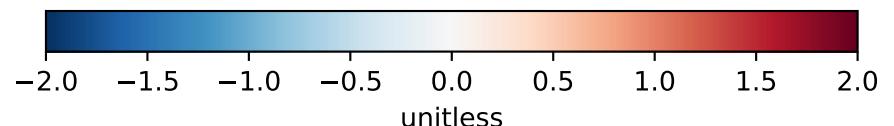
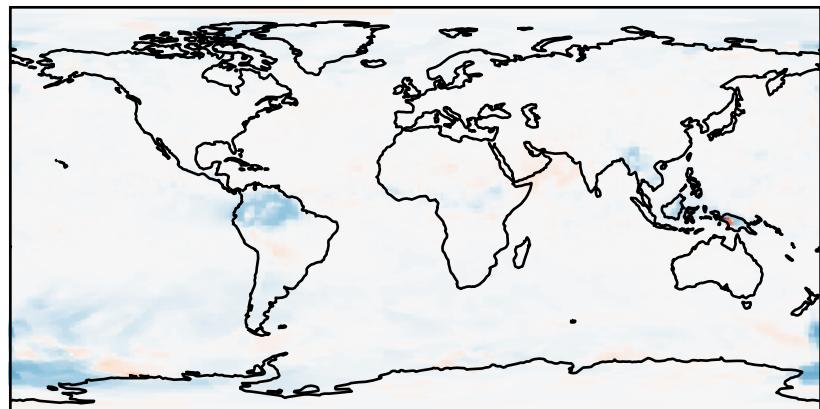
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

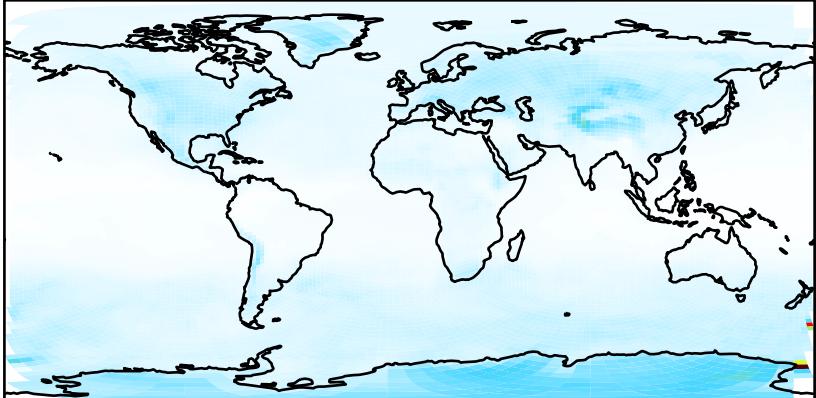


Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



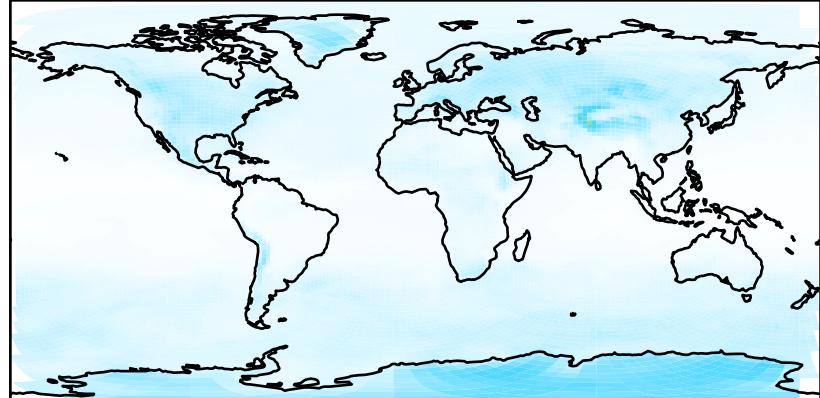
SpeciesConc_MPNN

GCHP_12.7.0 (Ref)
c48



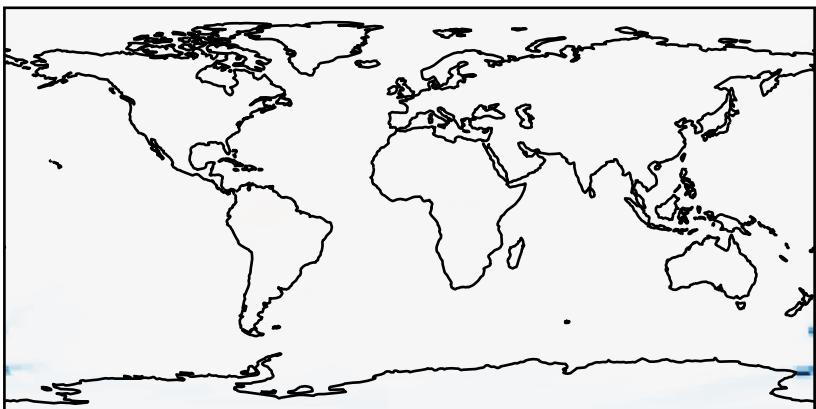
0.0025 0.0050 0.0075
ppb

GCHP_12.8.0 (Dev)
c48



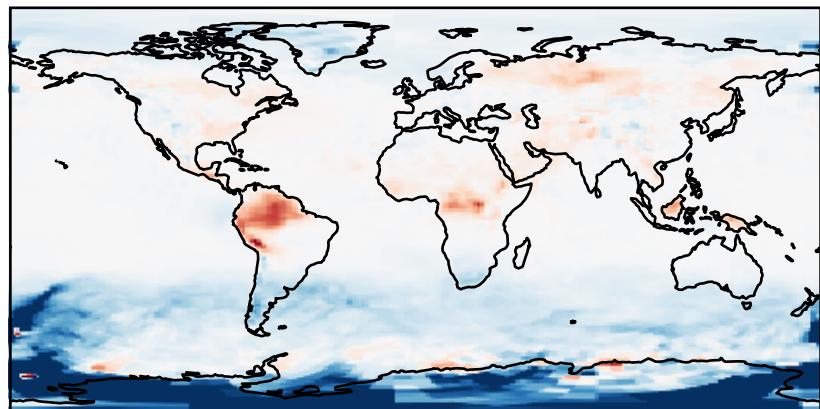
0.0025 0.0050 0.0075
ppb

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



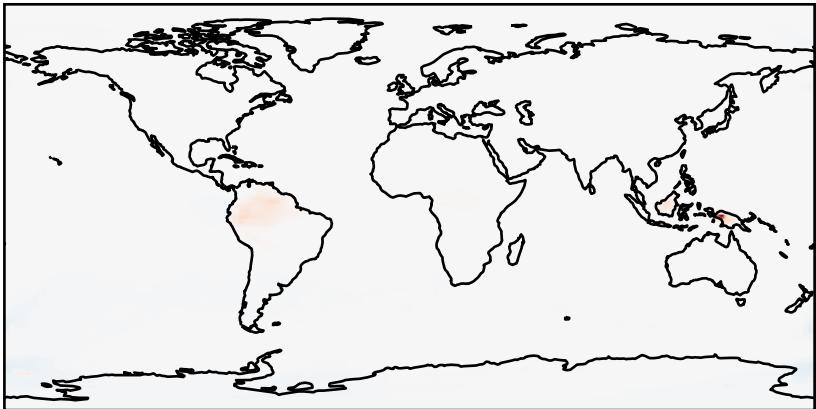
-0.005 0.000 0.005
ppb

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



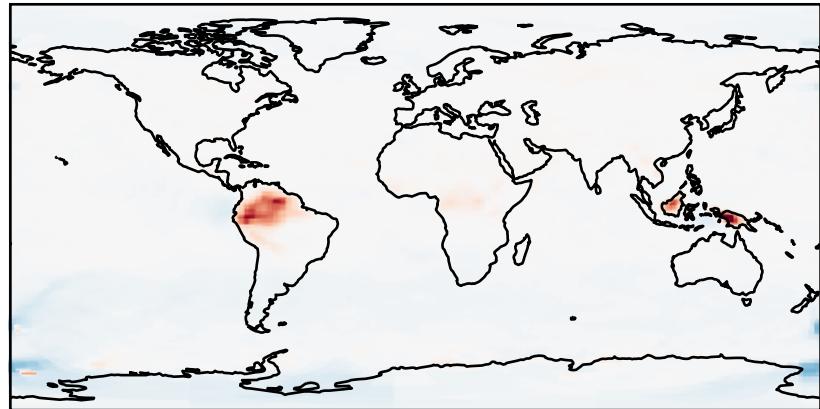
-0.0001 0.0000 0.0001
ppb

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



-10.0 -7.5 -5.0 -2.5 0.0 2.5 5.0 7.5 10.0
unitless

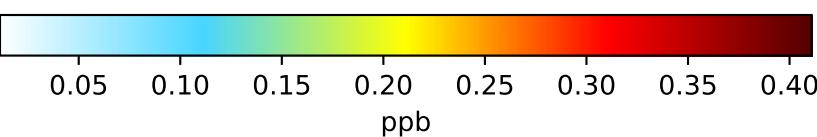
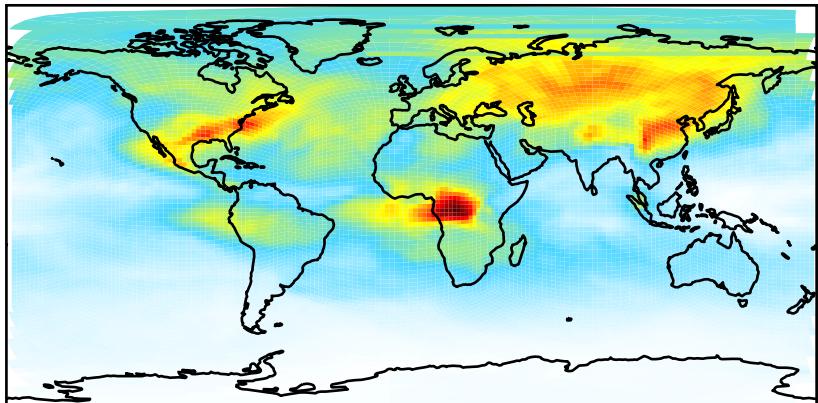
Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



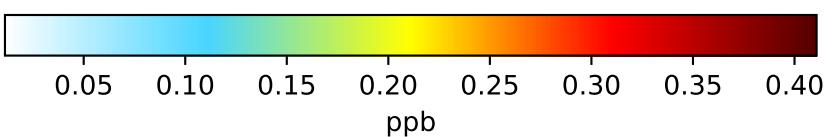
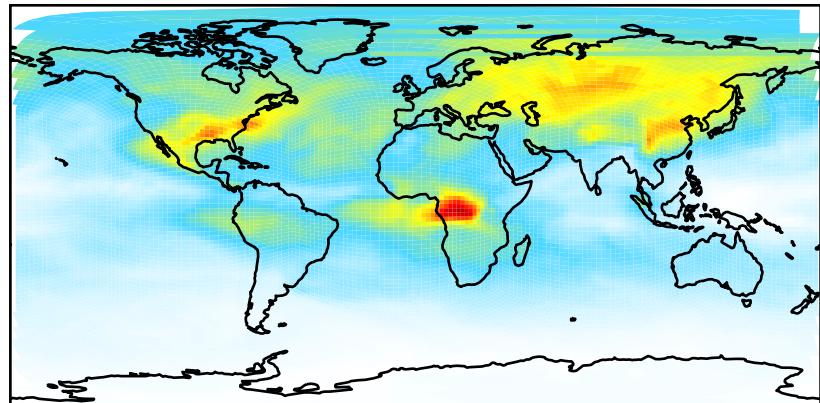
-2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0
unitless

SpeciesConc_PAN

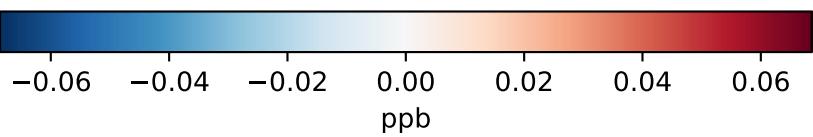
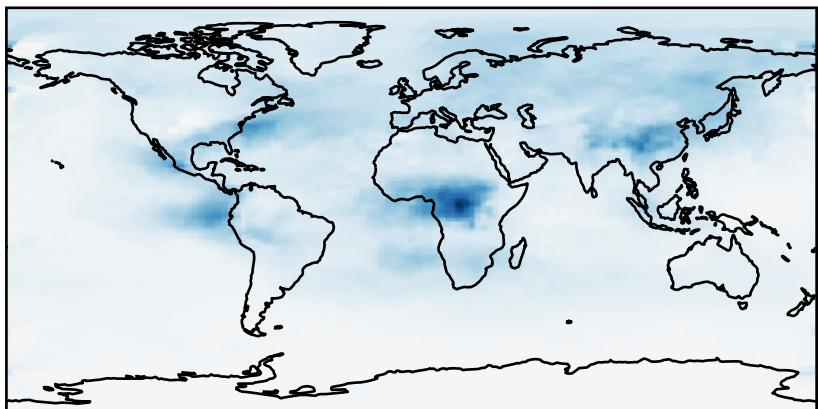
GCHP_12.7.0 (Ref)
c48



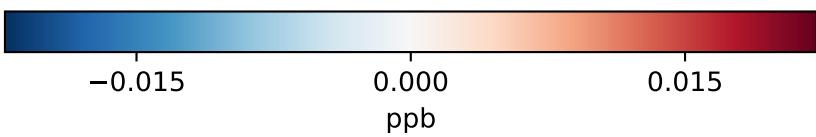
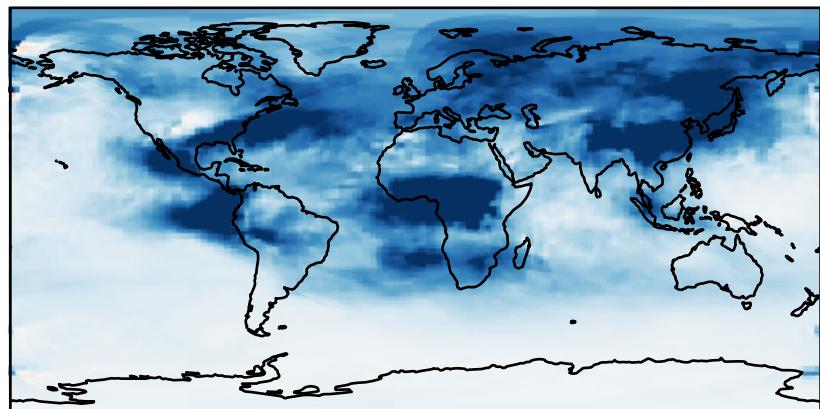
GCHP_12.8.0 (Dev)
c48



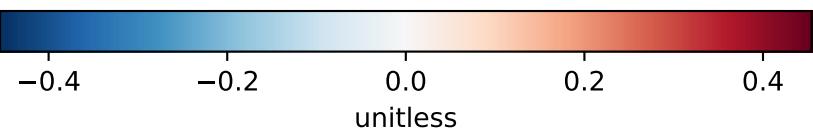
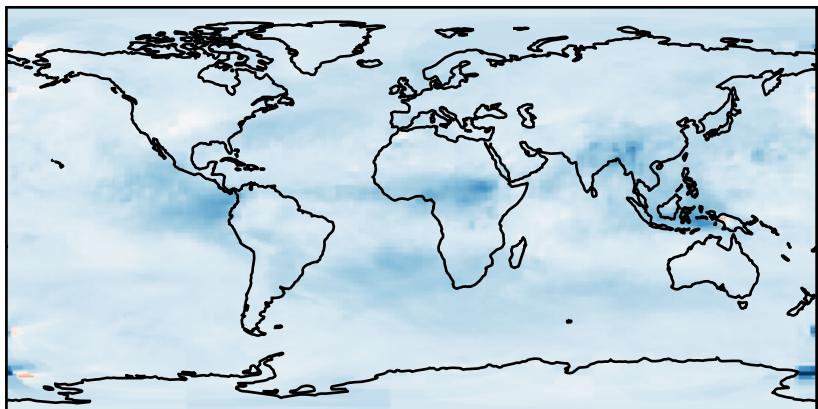
Difference (1x1.25)
Dev - Ref, Dynamic Range



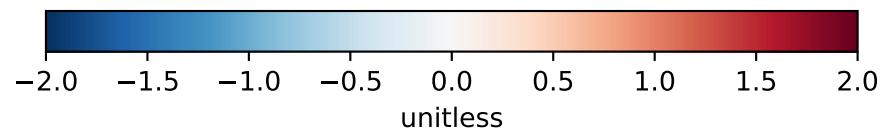
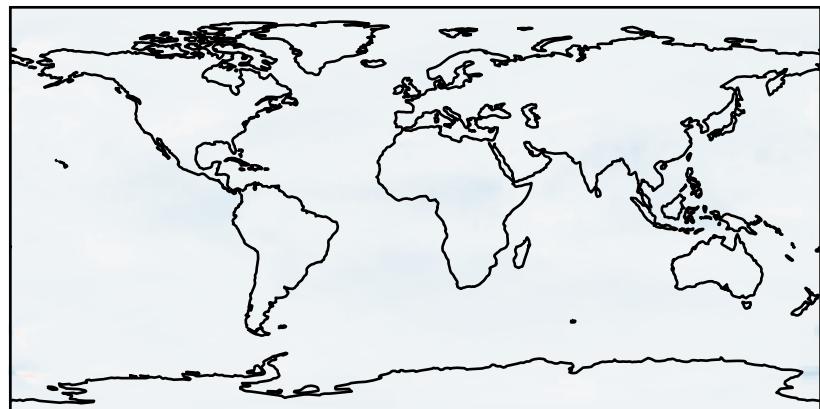
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

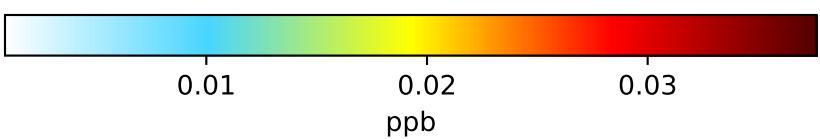
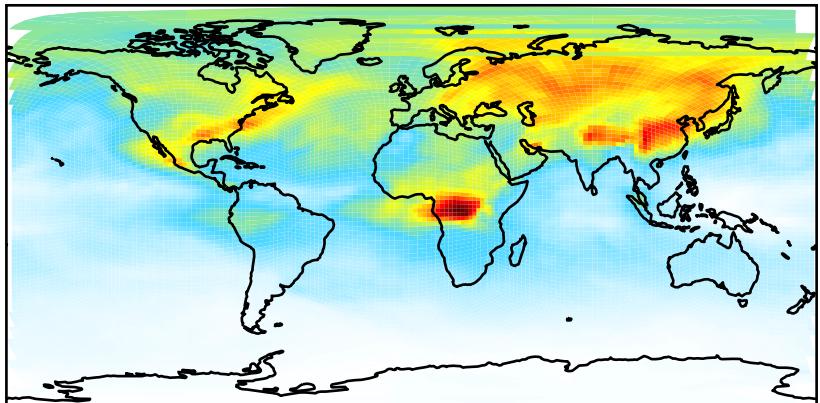


Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

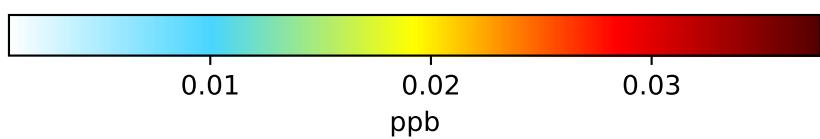
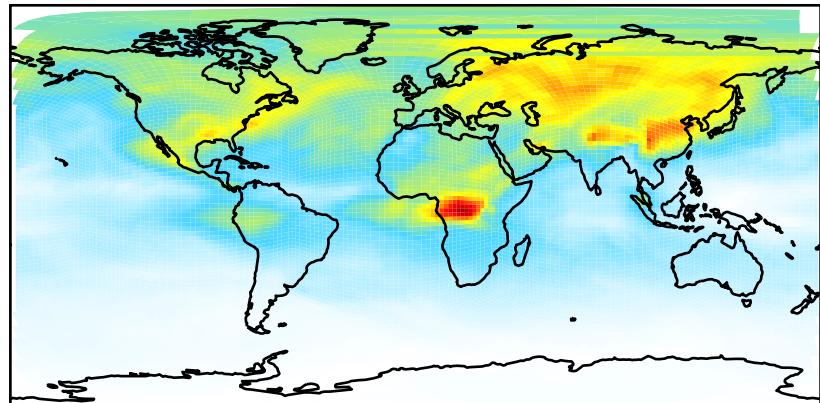


SpeciesConc_PPN

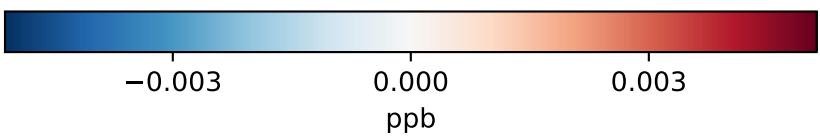
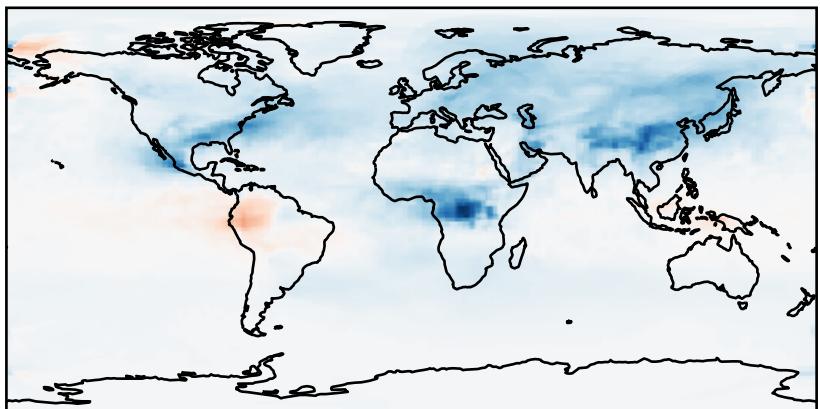
GCHP_12.7.0 (Ref)
c48



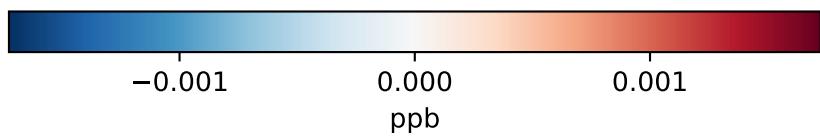
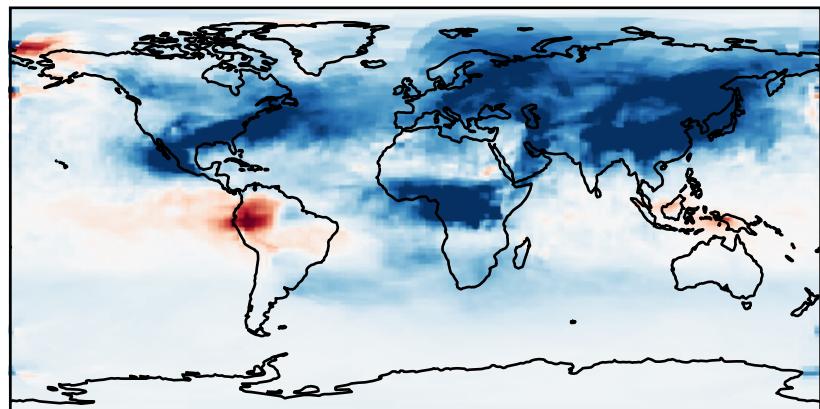
GCHP_12.8.0 (Dev)
c48



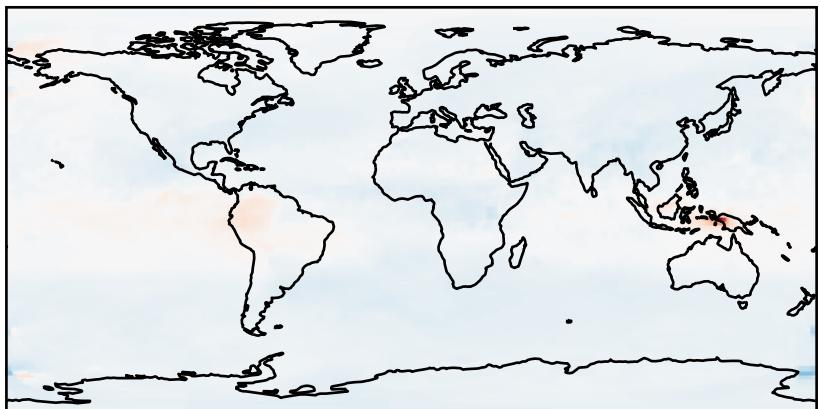
Difference (1x1.25)
Dev - Ref, Dynamic Range



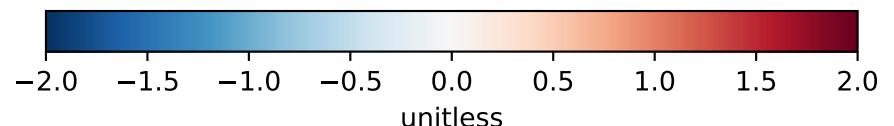
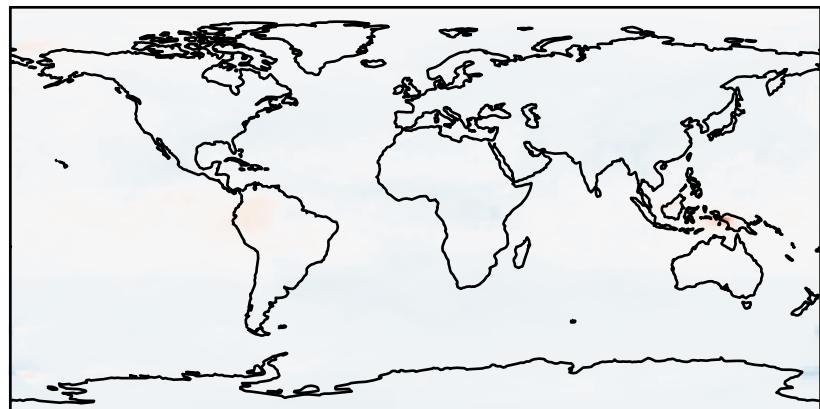
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

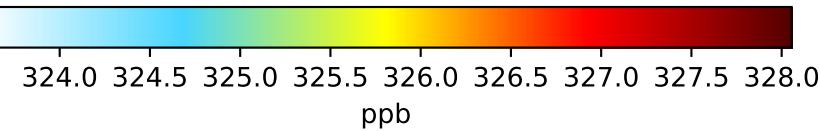


Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

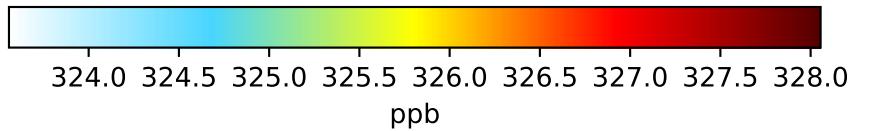
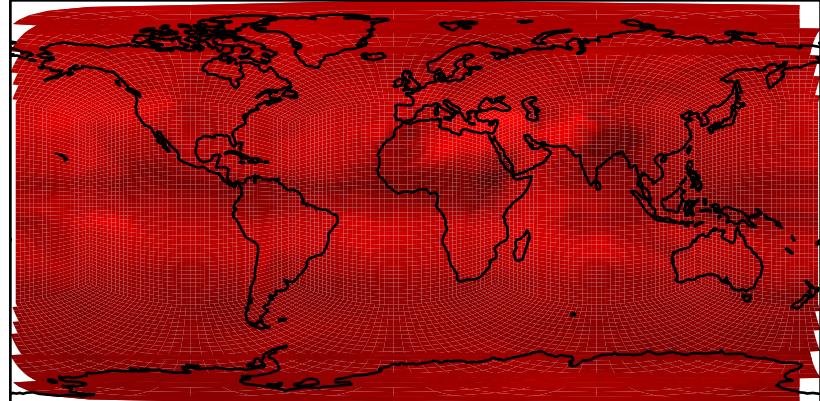


SpeciesConc_N2O

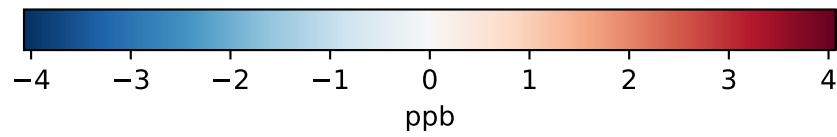
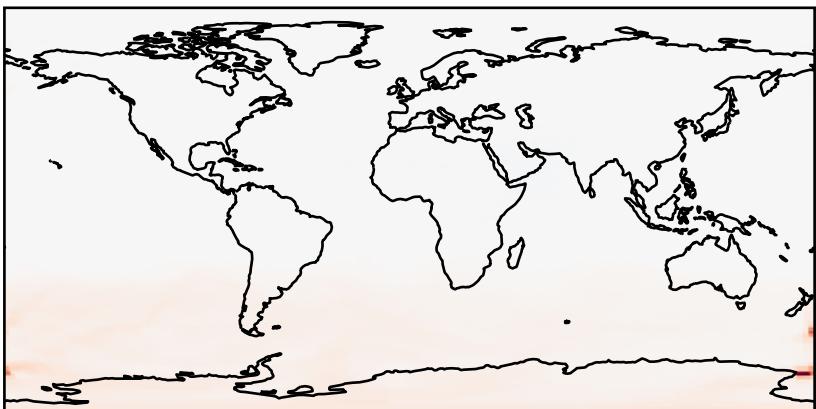
GCHP_12.7.0 (Ref)
c48



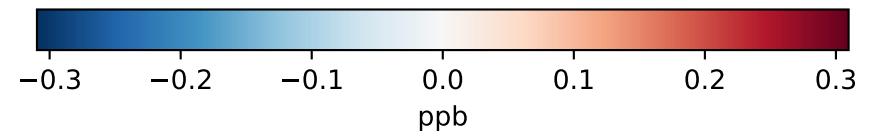
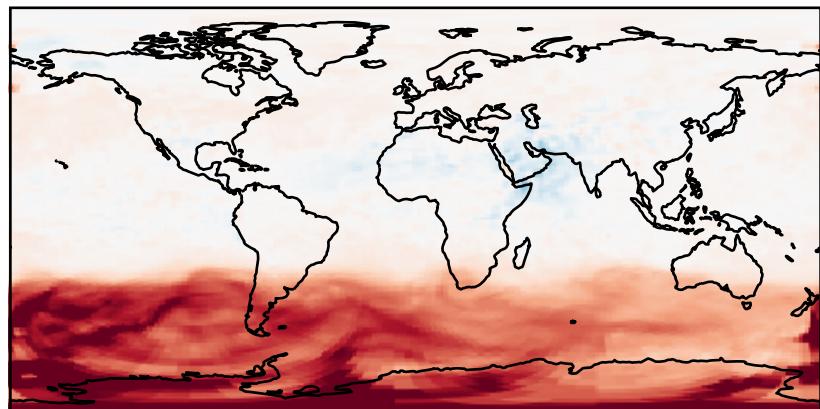
GCHP_12.8.0 (Dev)
c48



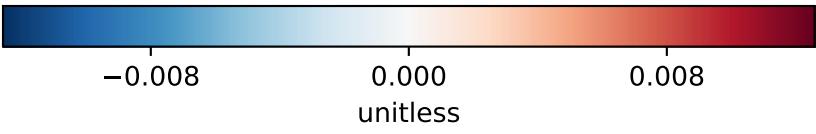
Difference (1x1.25)
Dev - Ref, Dynamic Range



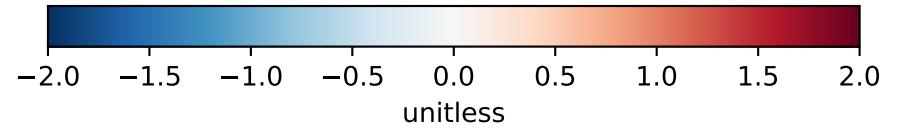
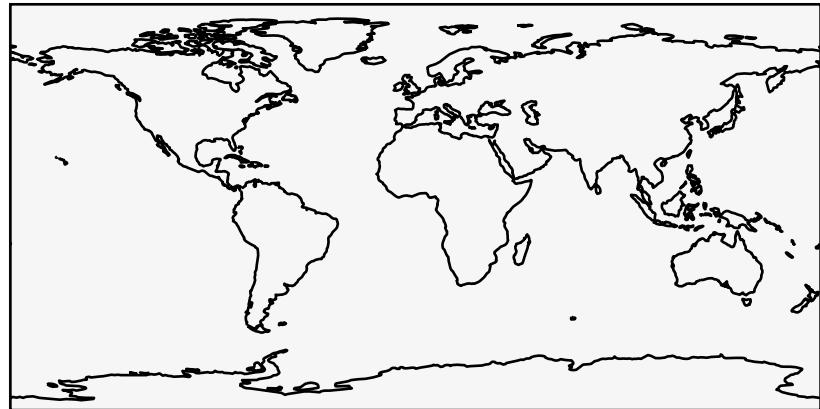
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

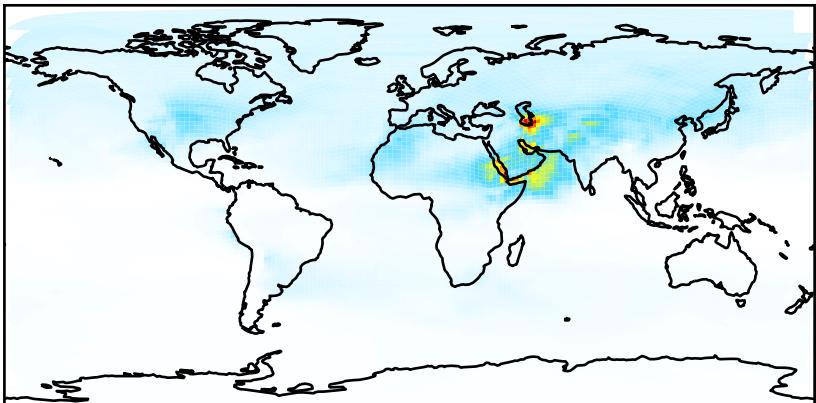


Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

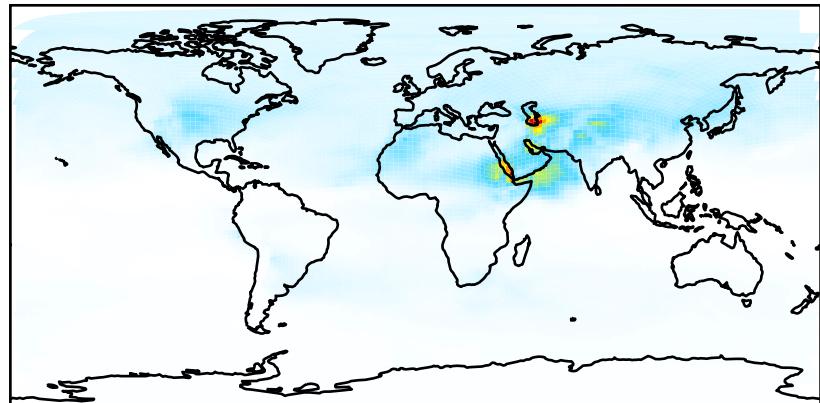


SpeciesConc_NHx

GCHP_12.7.0 (Ref)
c48



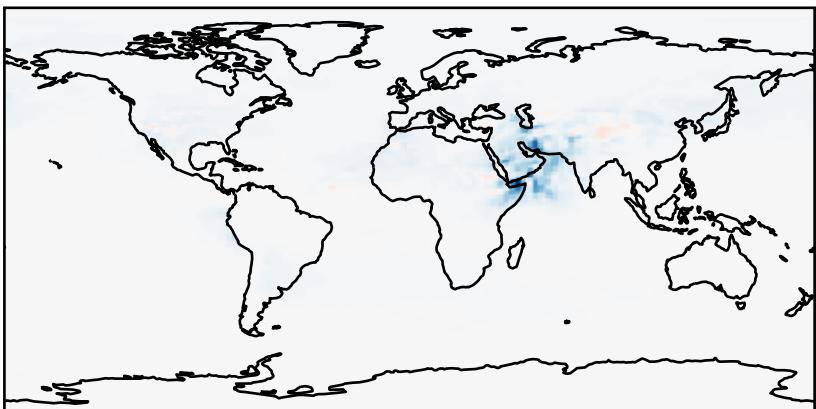
GCHP_12.8.0 (Dev)
c48



0.2 0.4 0.6 0.8
ppb

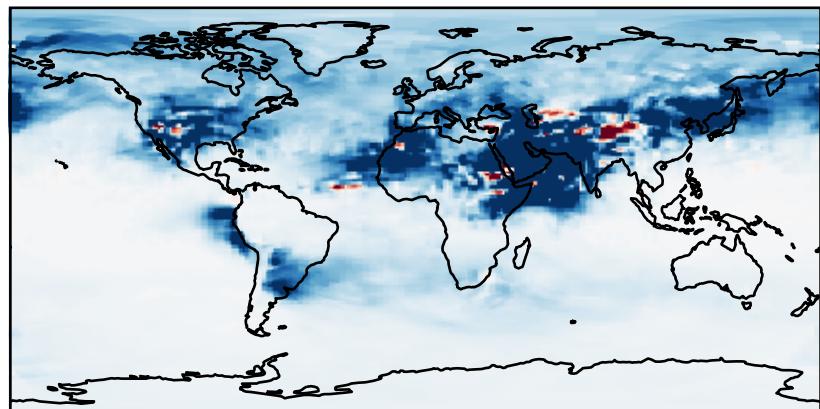
0.2 0.4 0.6 0.8
ppb

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



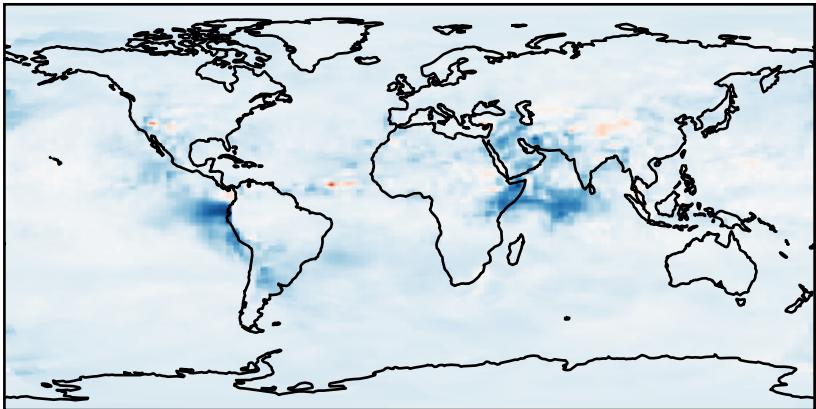
-0.15 -0.10 -0.05 0.00 0.05 0.10 0.15
ppb

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



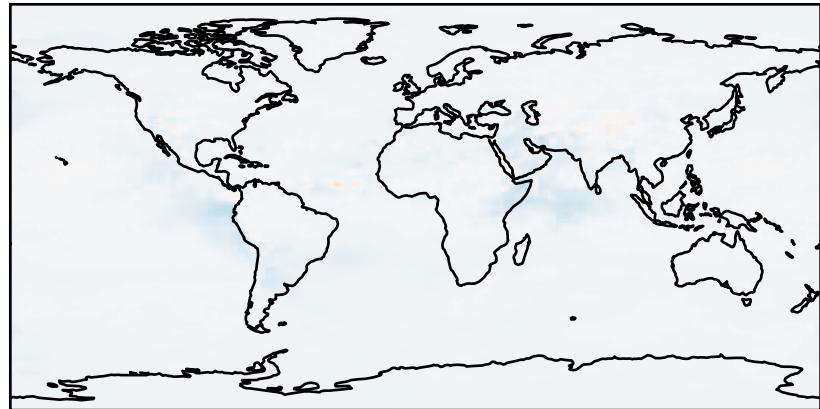
-0.005 0.000 0.005
ppb

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



-0.4 -0.2 0.0 0.2 0.4
unitless

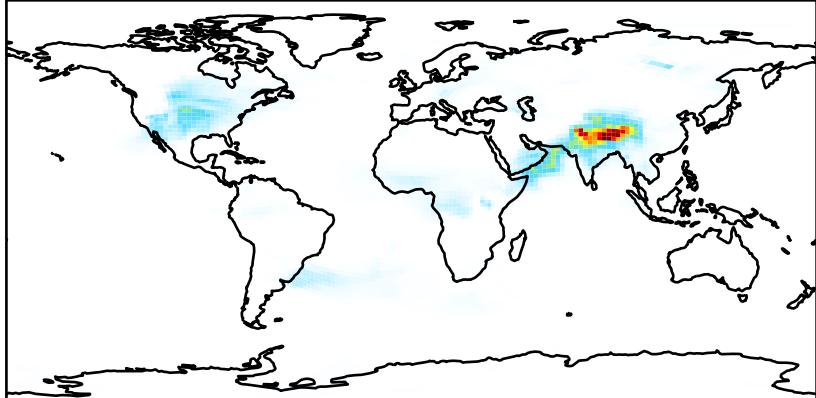
Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



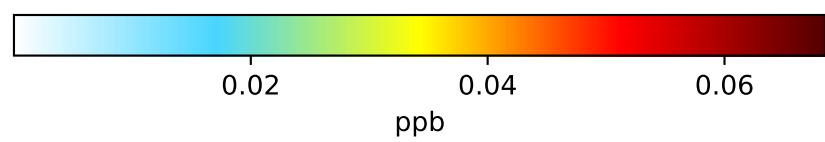
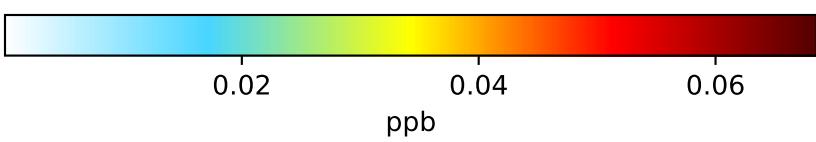
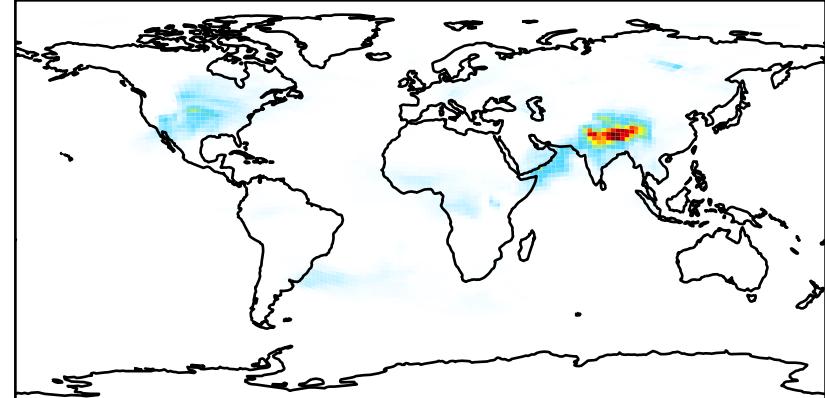
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SpeciesConc_NH3

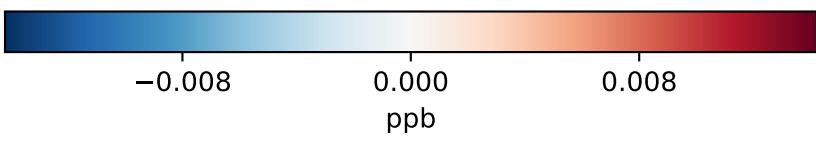
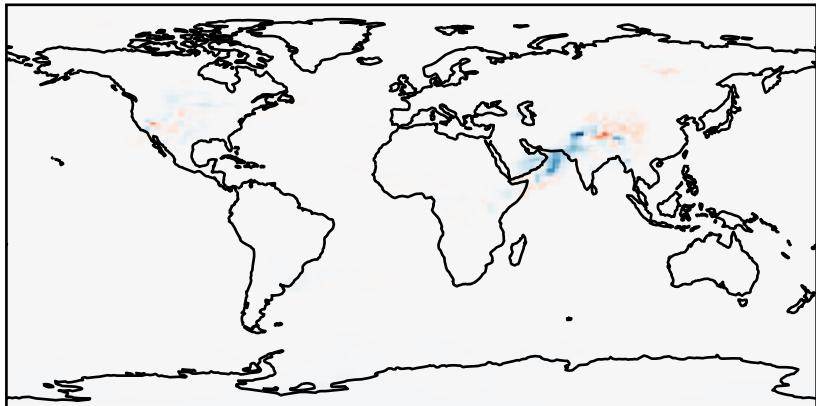
GCHP_12.7.0 (Ref)
c48



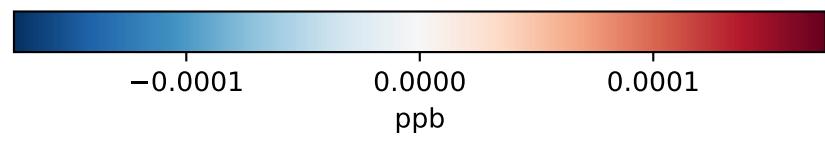
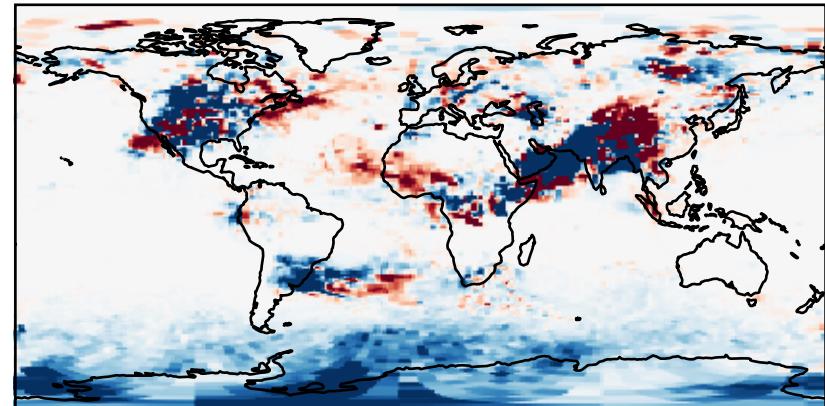
GCHP_12.8.0 (Dev)
c48



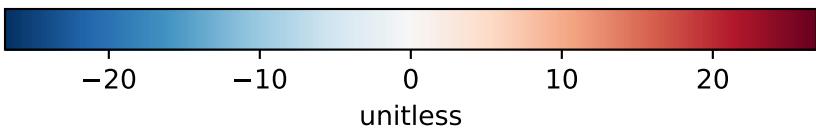
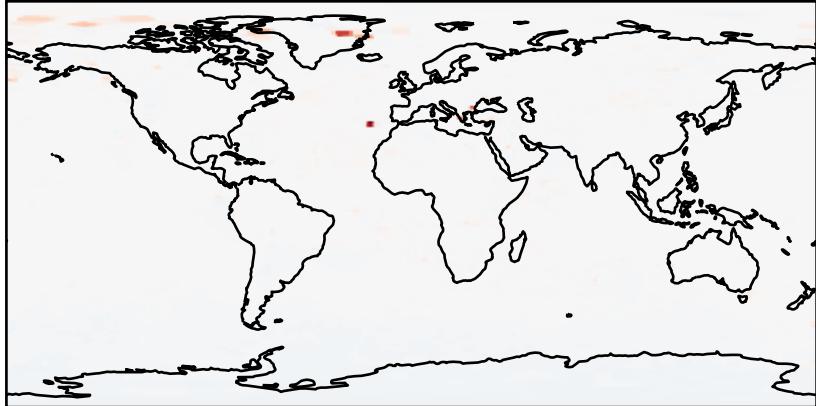
Difference (1x1.25)
Dev - Ref, Dynamic Range



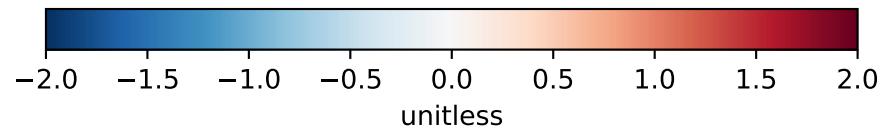
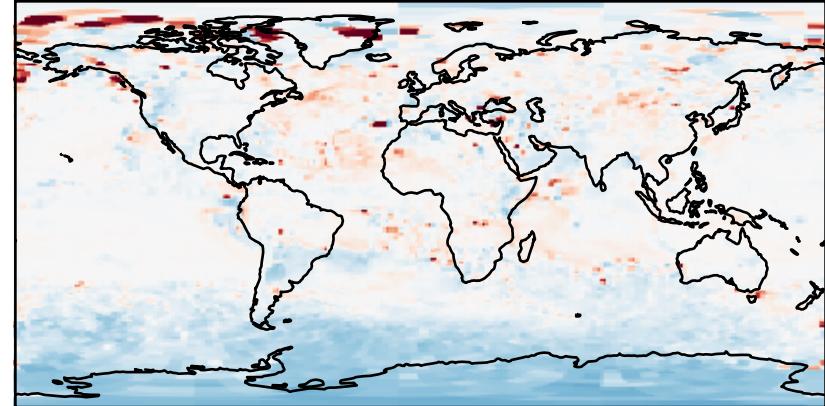
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

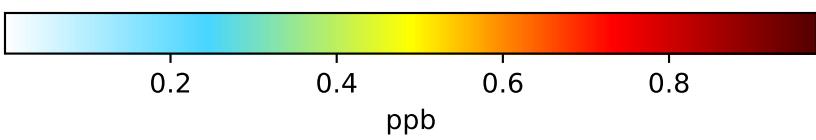
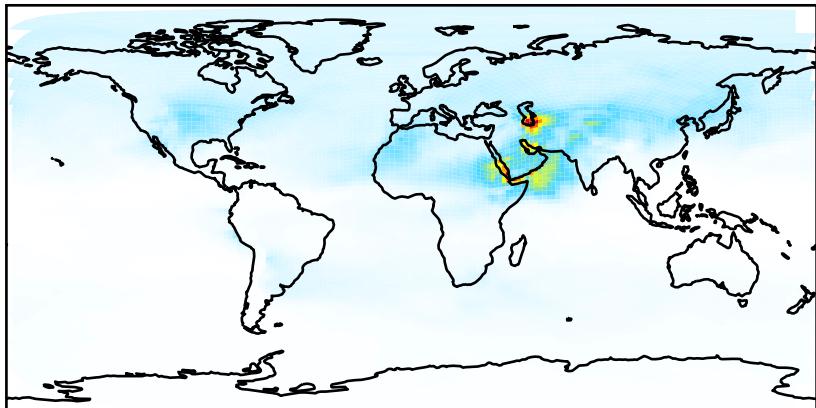


Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

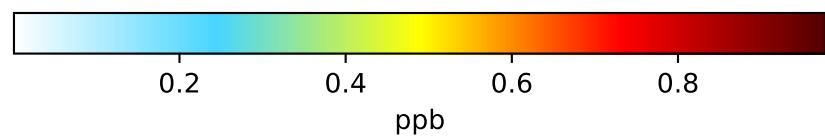
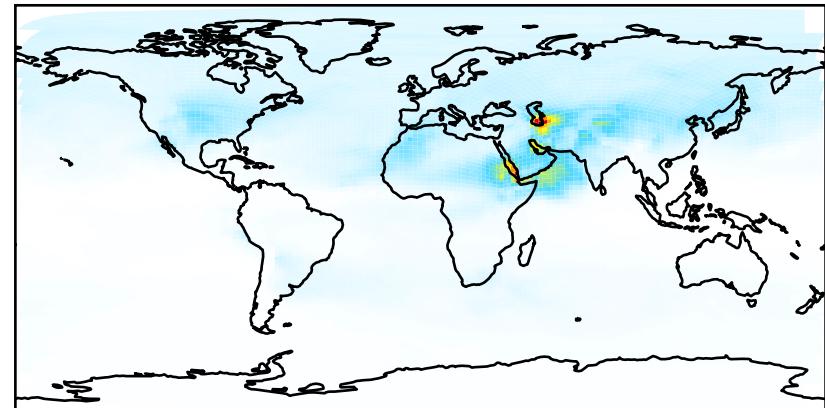


SpeciesConc_NH4

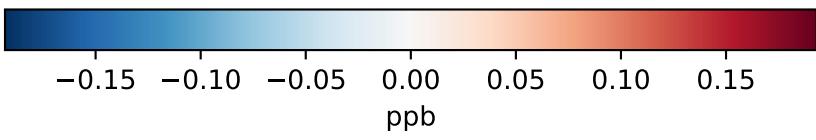
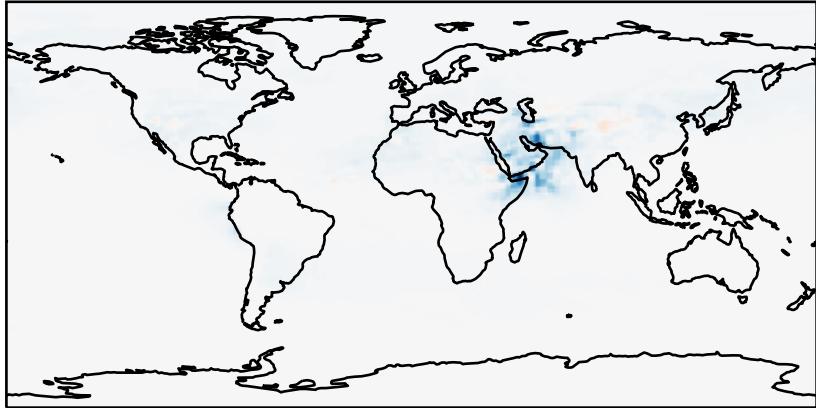
GCHP_12.7.0 (Ref)
c48



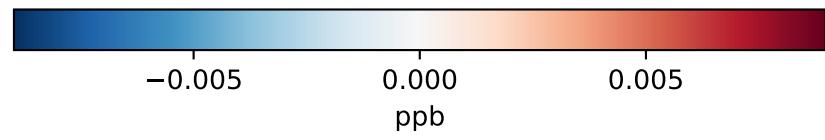
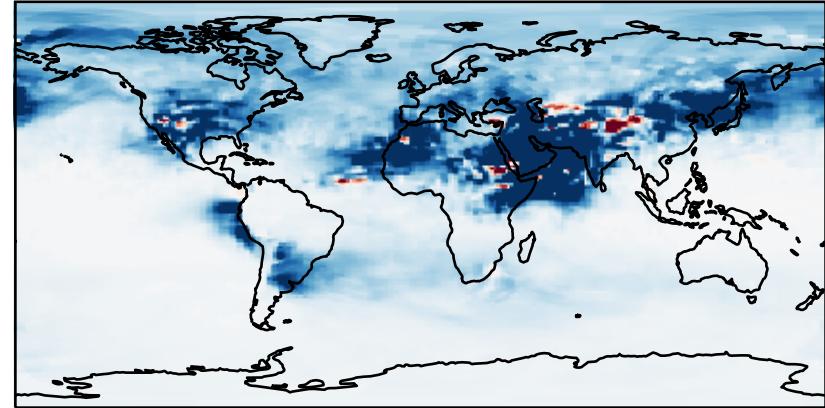
GCHP_12.8.0 (Dev)
c48



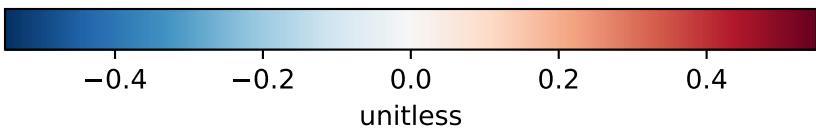
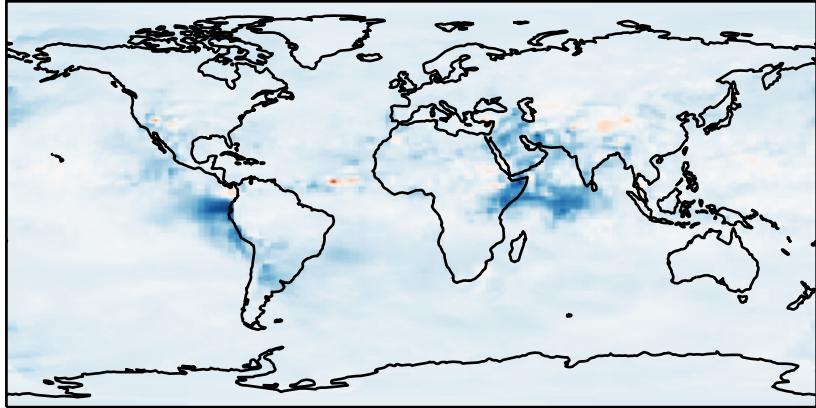
Difference (1x1.25)
Dev - Ref, Dynamic Range



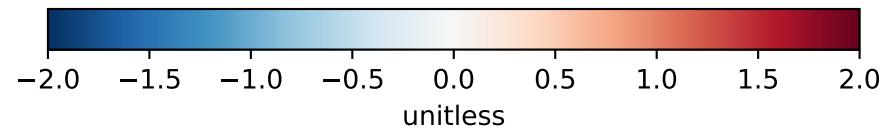
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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



Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



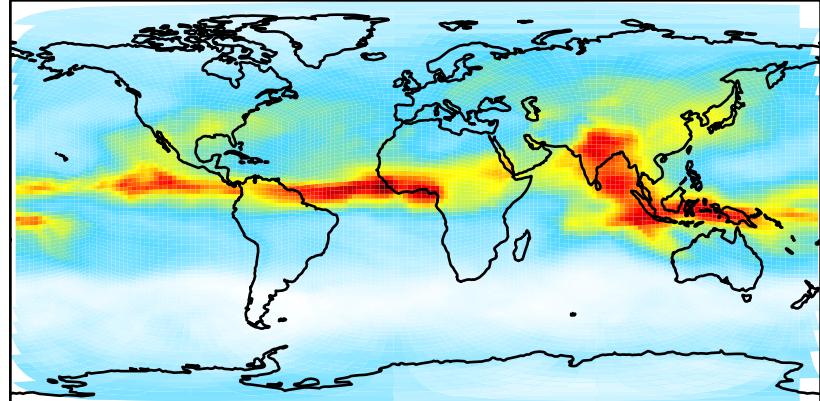
SpeciesConc_MENO3

GCHP_12.7.0 (Ref)
c48



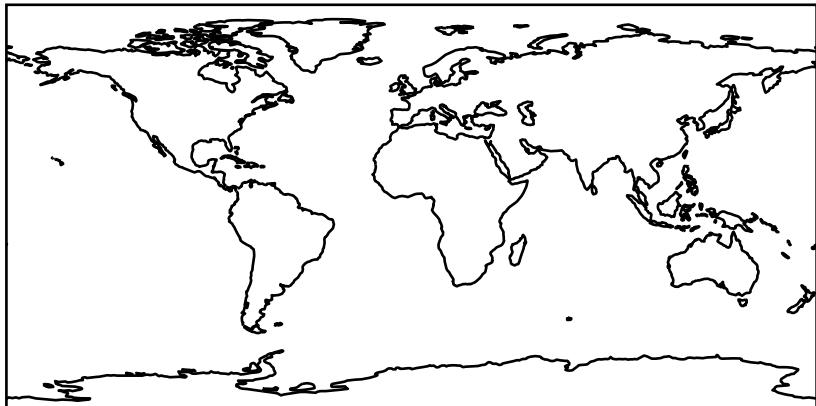
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GCHP_12.8.0 (Dev)
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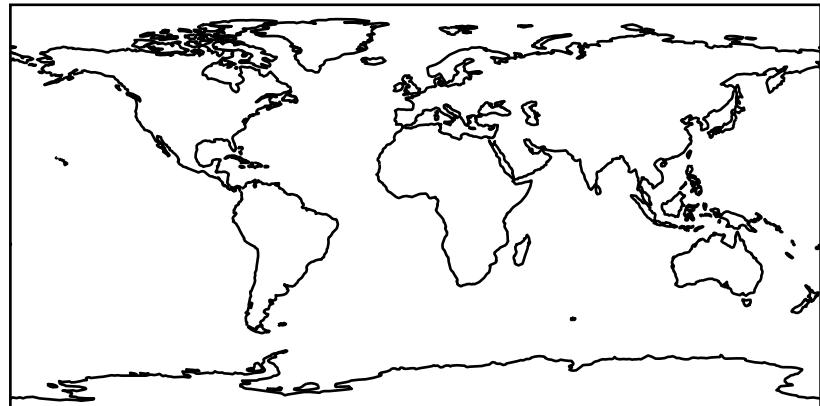
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Difference (1x1.25)
Dev - Ref, Dynamic Range



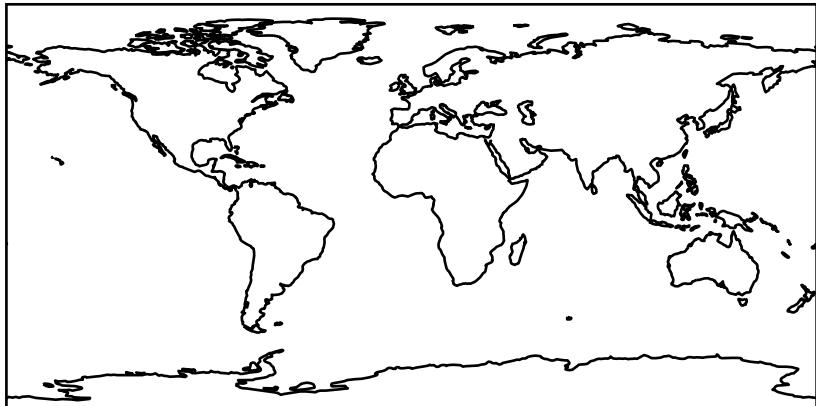
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Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



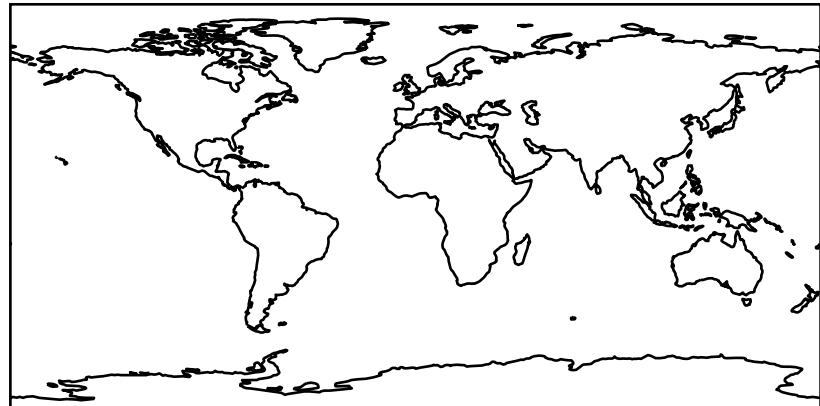
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Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range



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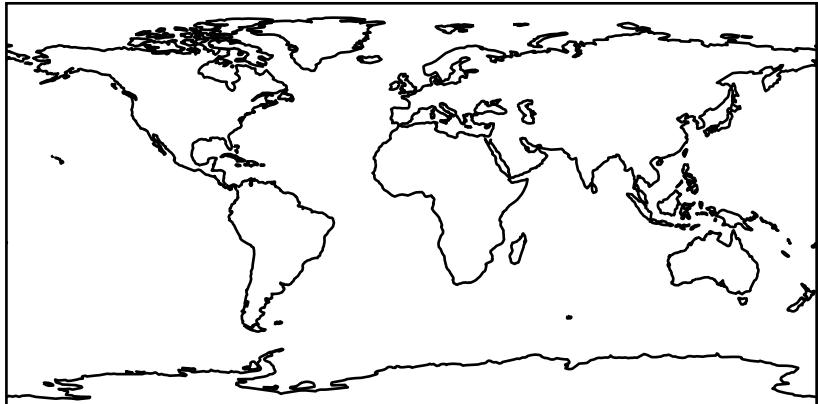
Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



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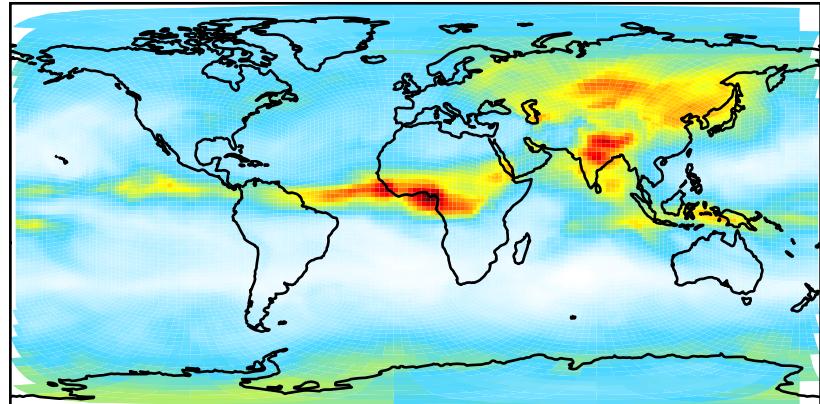
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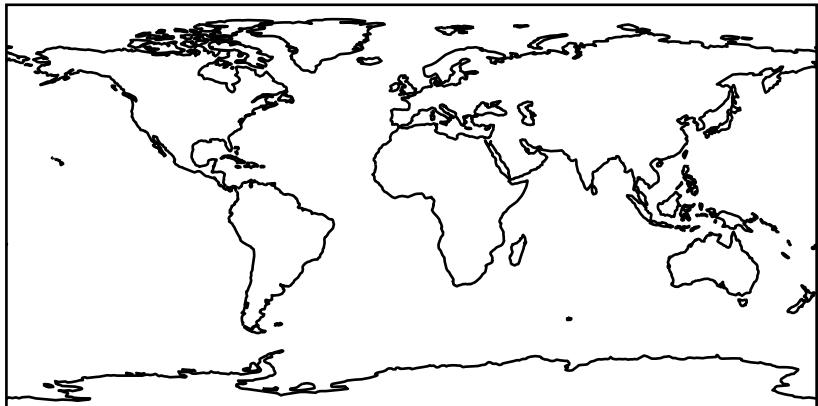
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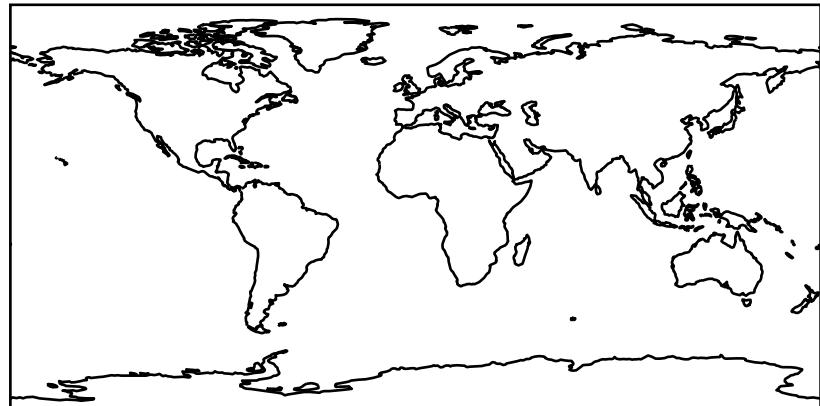
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Difference (1x1.25)
Dev - Ref, Dynamic Range



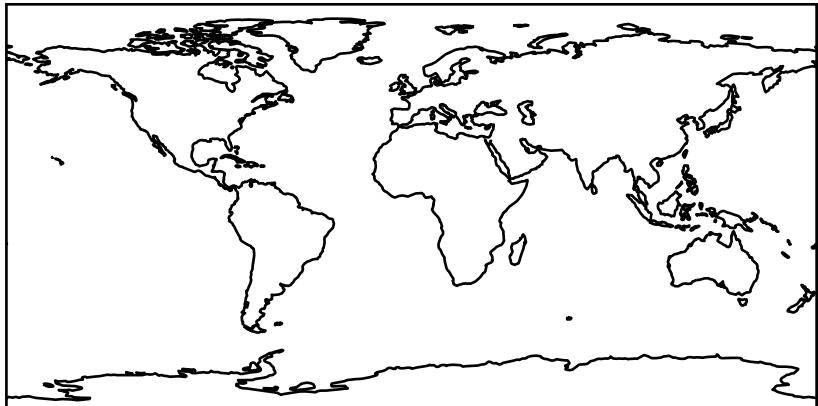
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Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



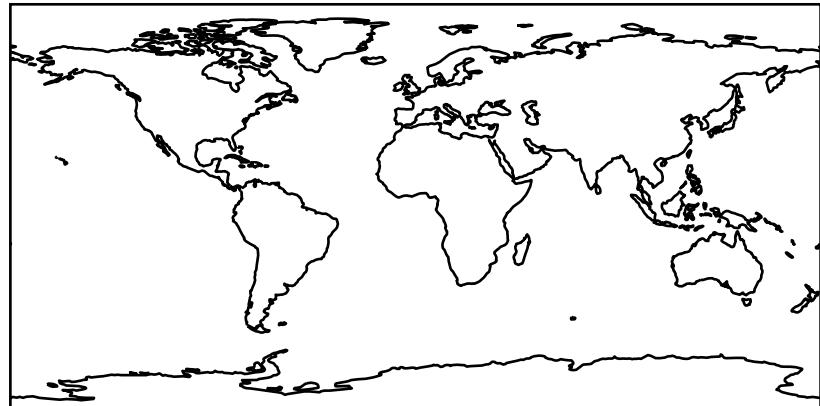
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Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range



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Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



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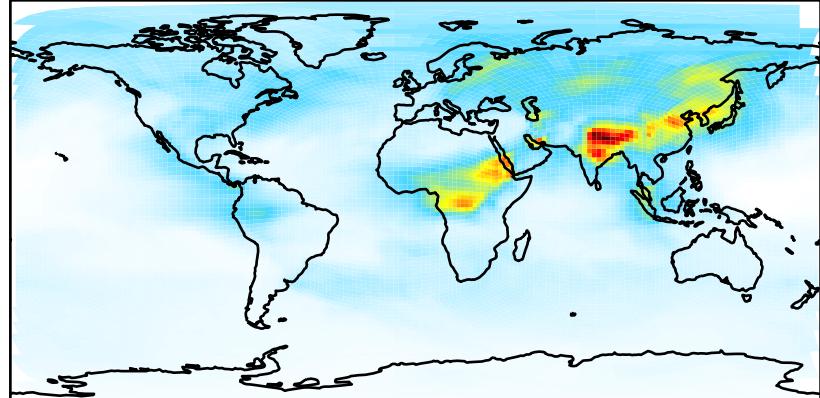
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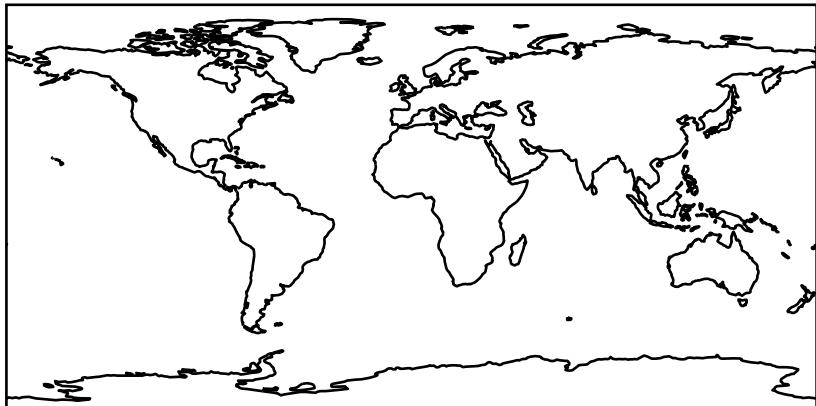
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c48



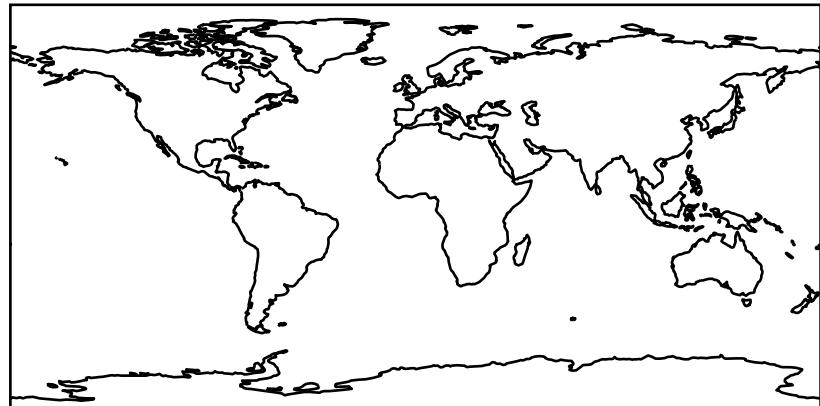
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Difference (1x1.25)
Dev - Ref, Dynamic Range



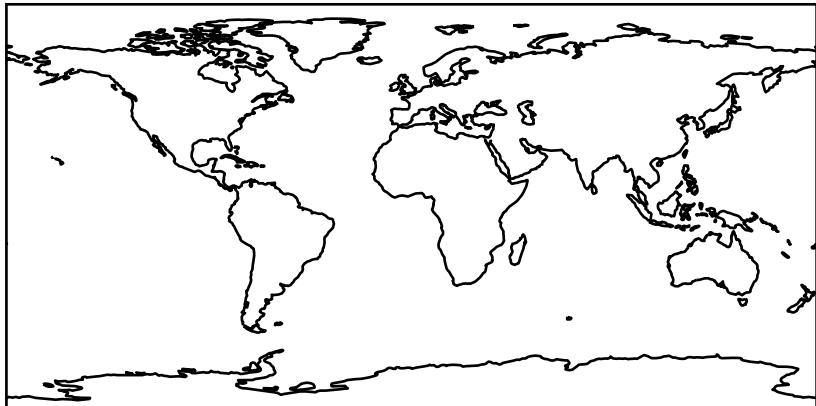
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Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



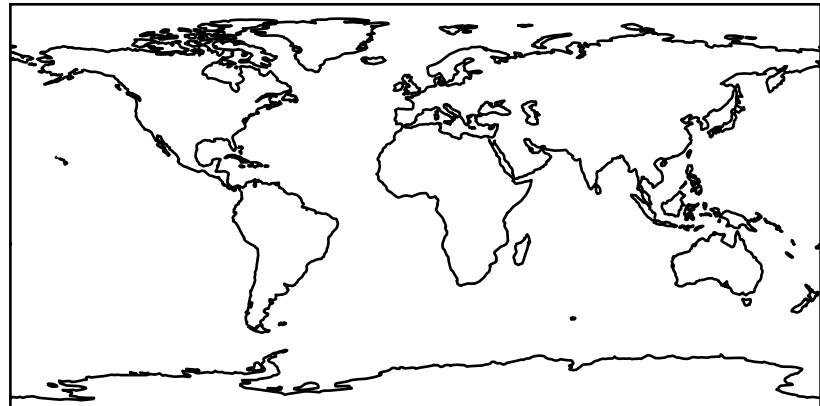
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Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range



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Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



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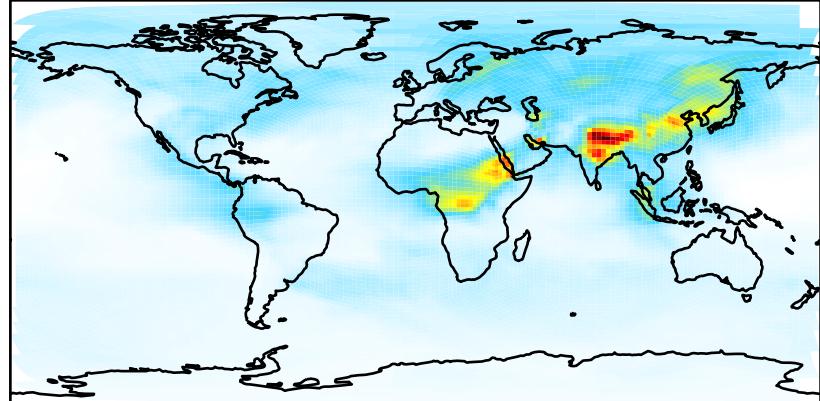
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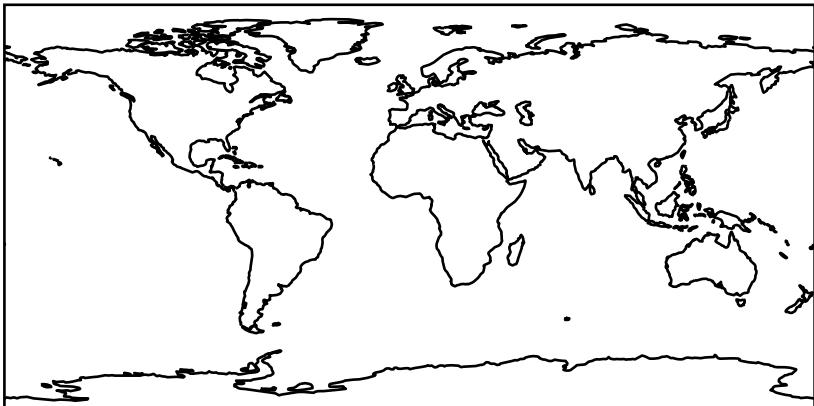
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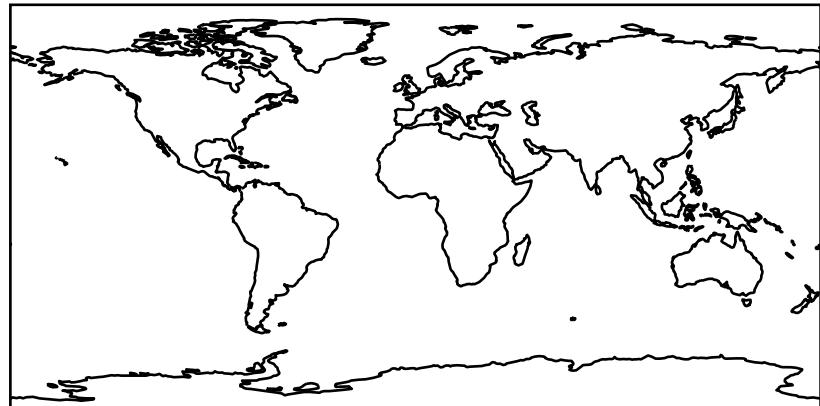
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Difference (1x1.25)
Dev - Ref, Dynamic Range



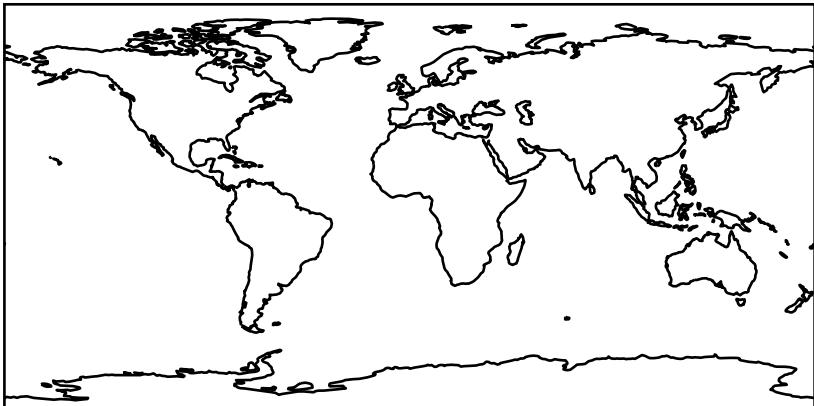
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Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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ppb

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



Undefined throughout domain
unitless

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



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