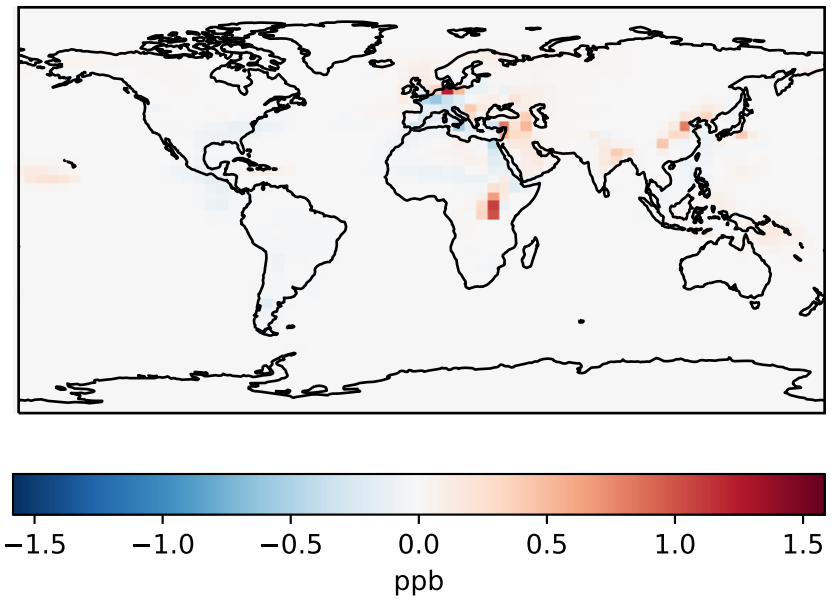
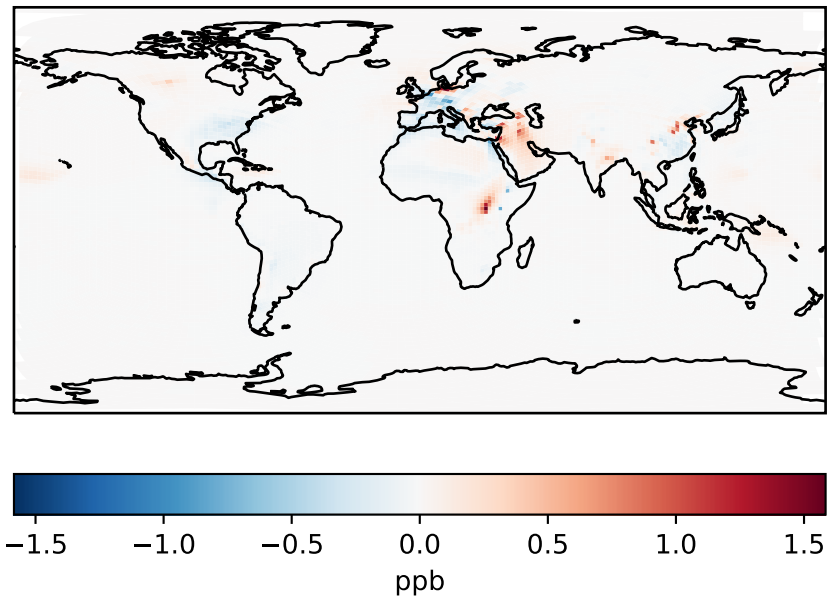
# SpeciesConc_NH4

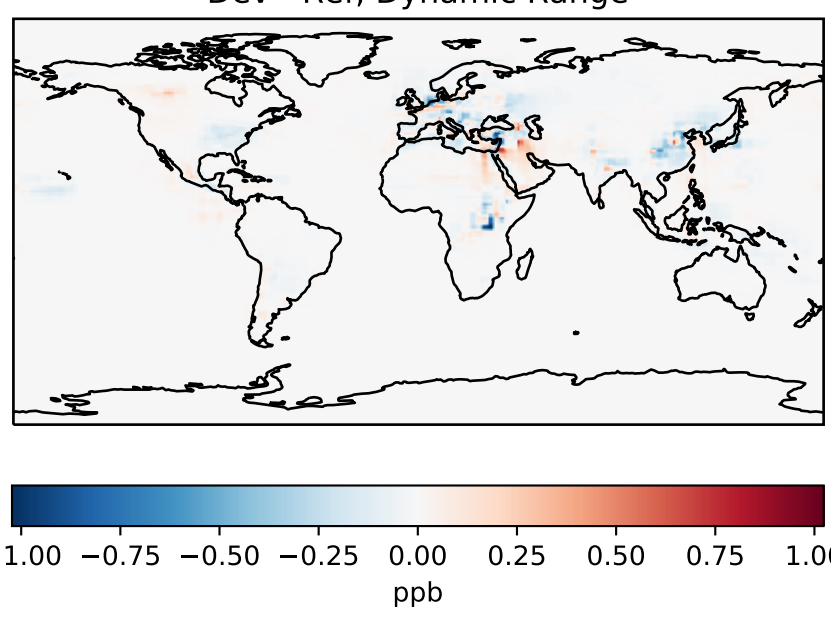
GC_12.5.0 - GC_12.4.0 (Ref)
4x5



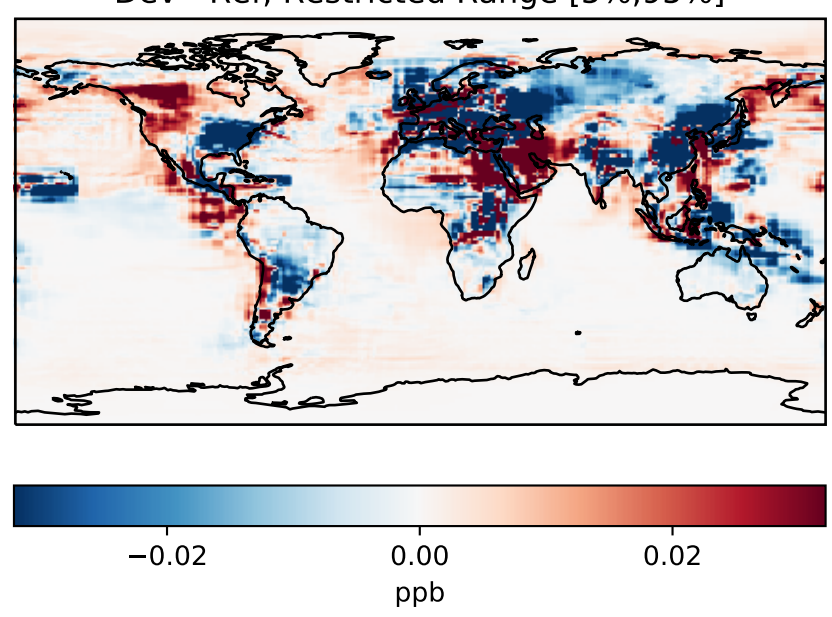

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



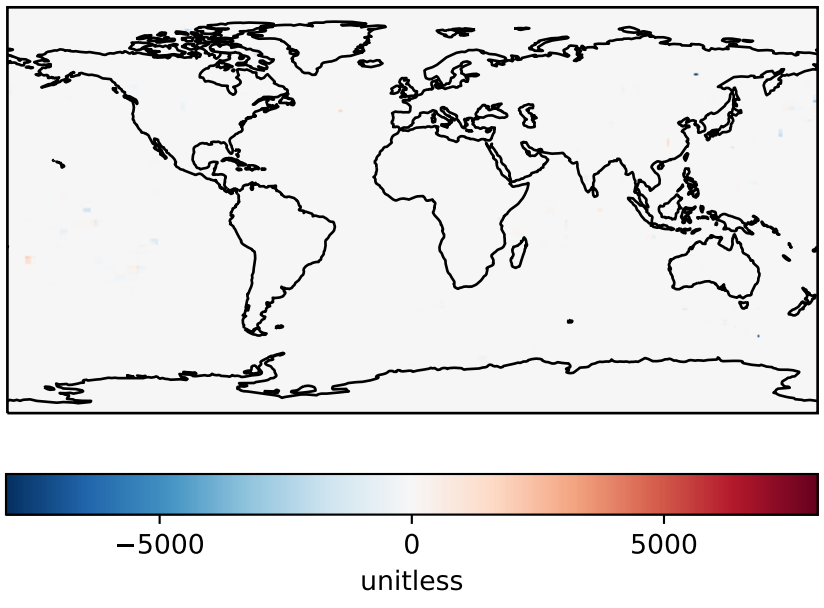

Difference (1x1.25)
Dev - Ref, Dynamic Range



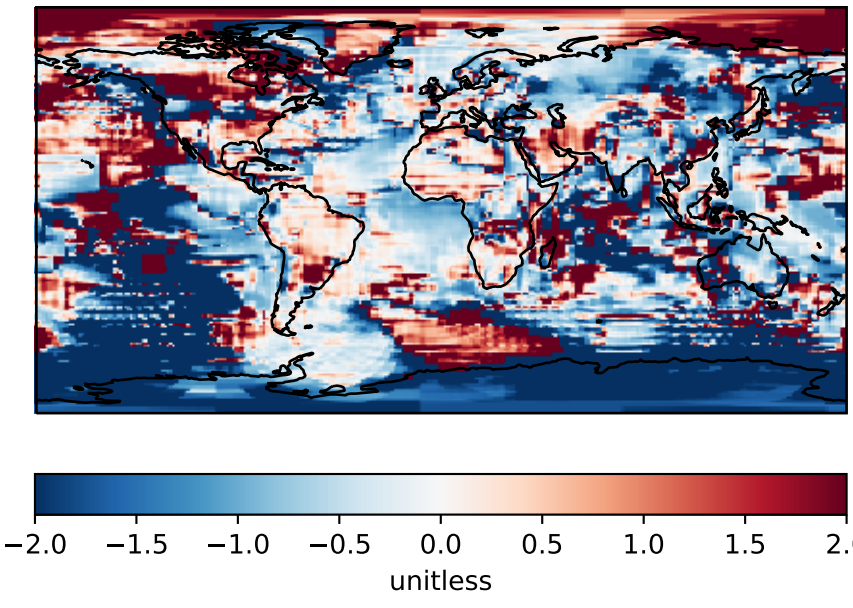

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]




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

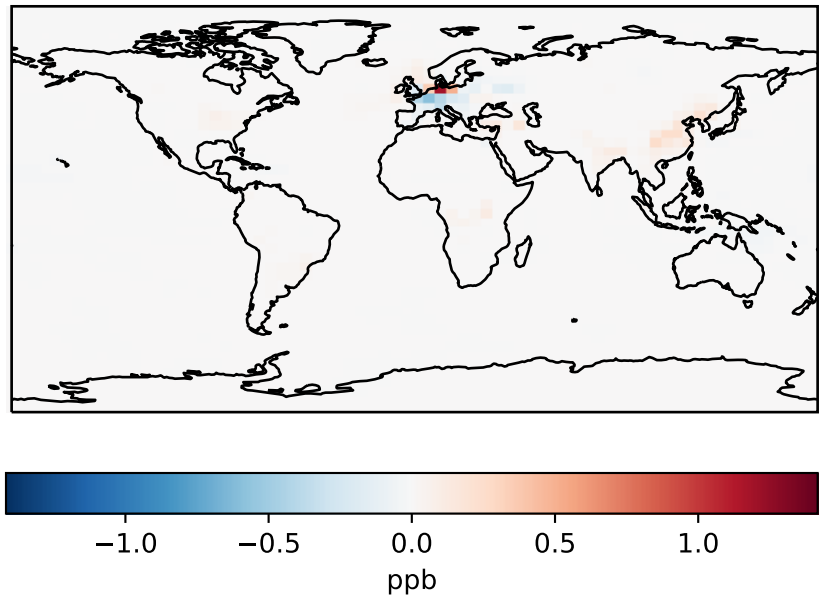



Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

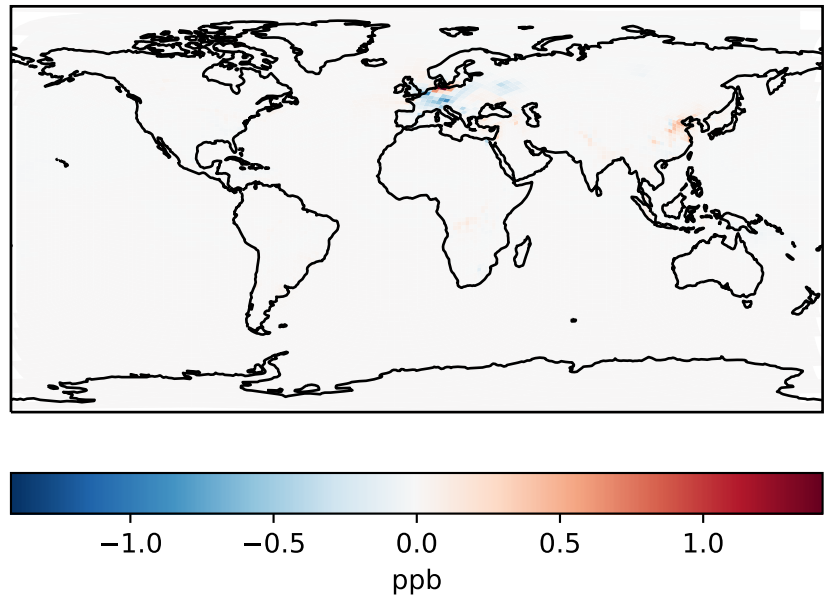


# SpeciesConc_NIT

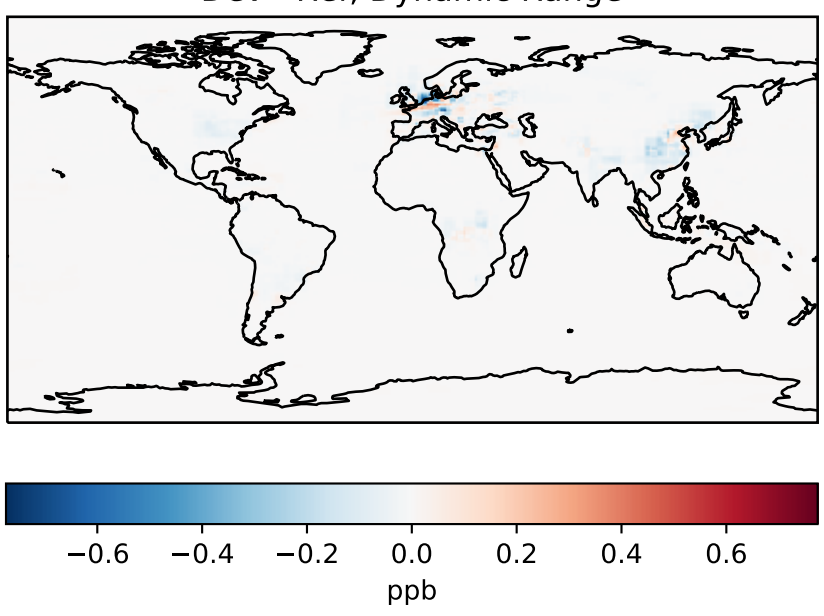
GC_12.5.0 - GC_12.4.0 (Ref)
4x5



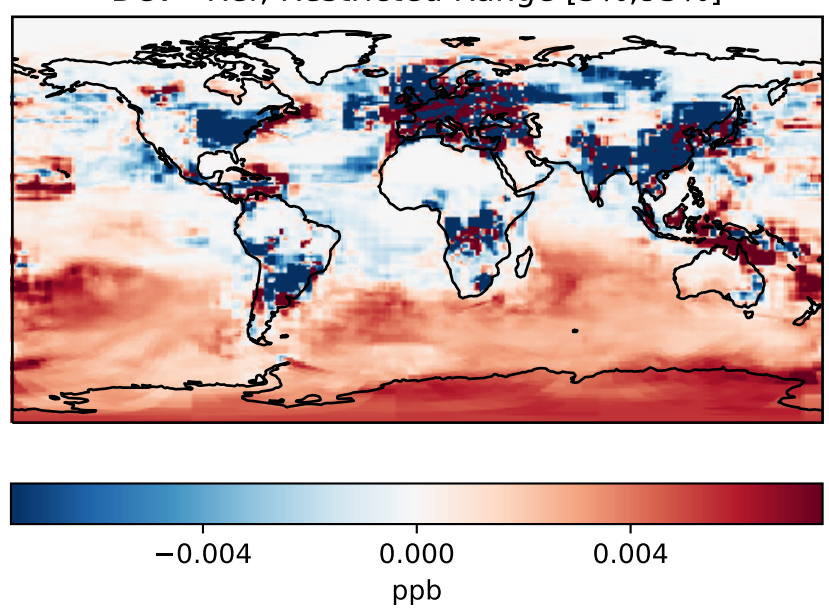

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



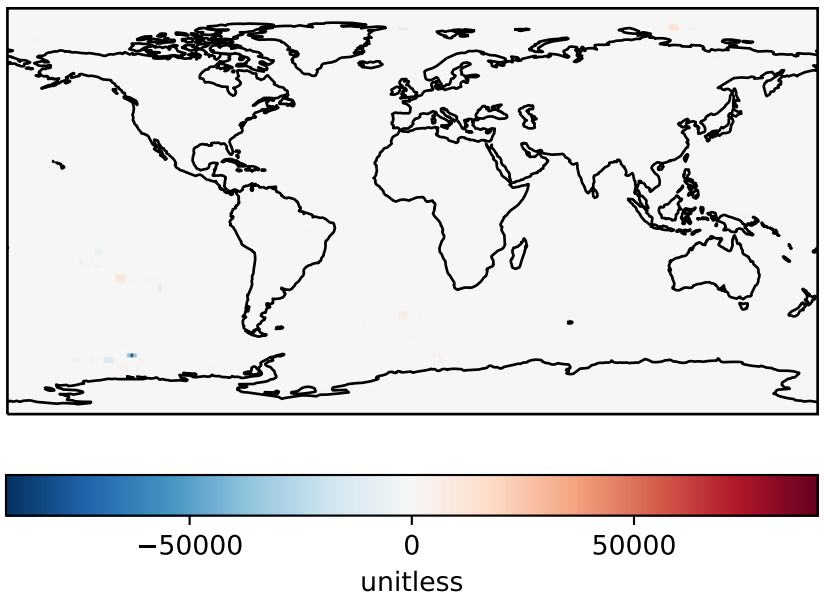

Difference (1x1.25)
Dev - Ref, Dynamic Range



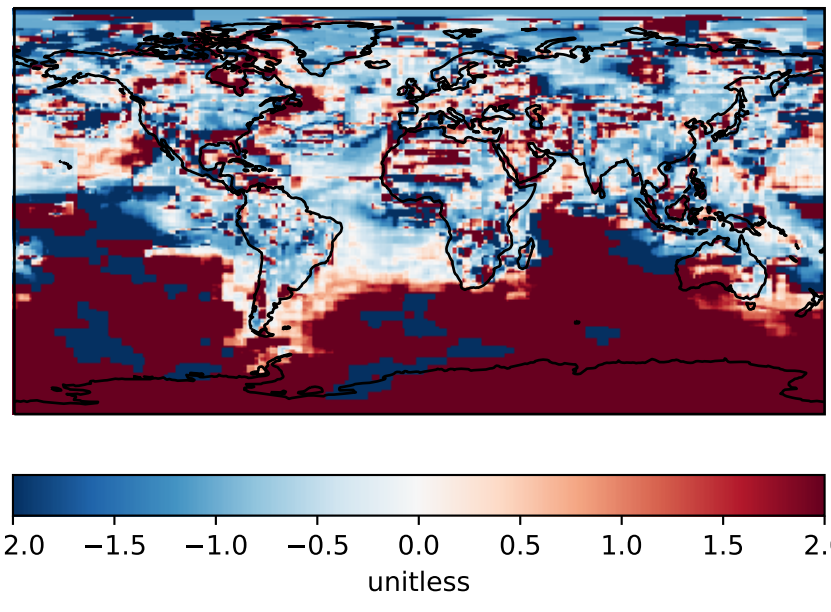

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]




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

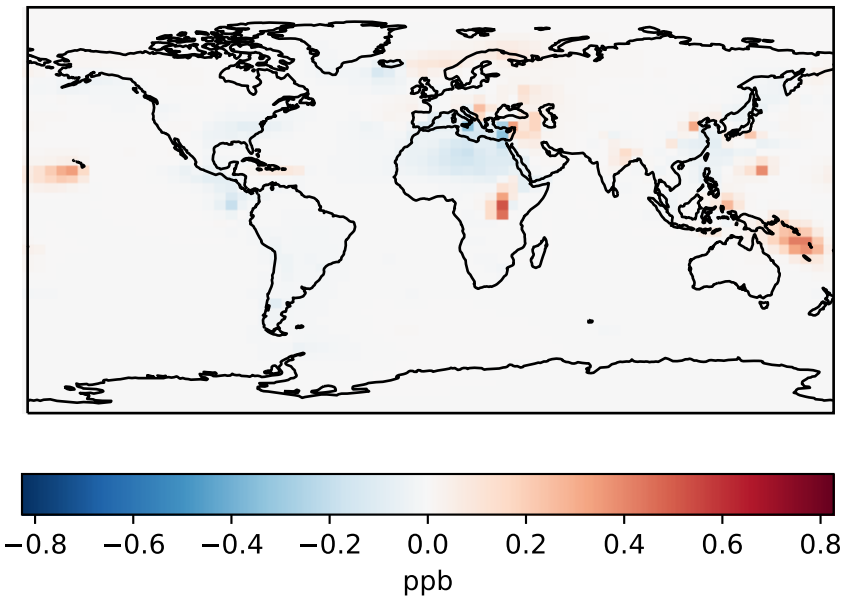



Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

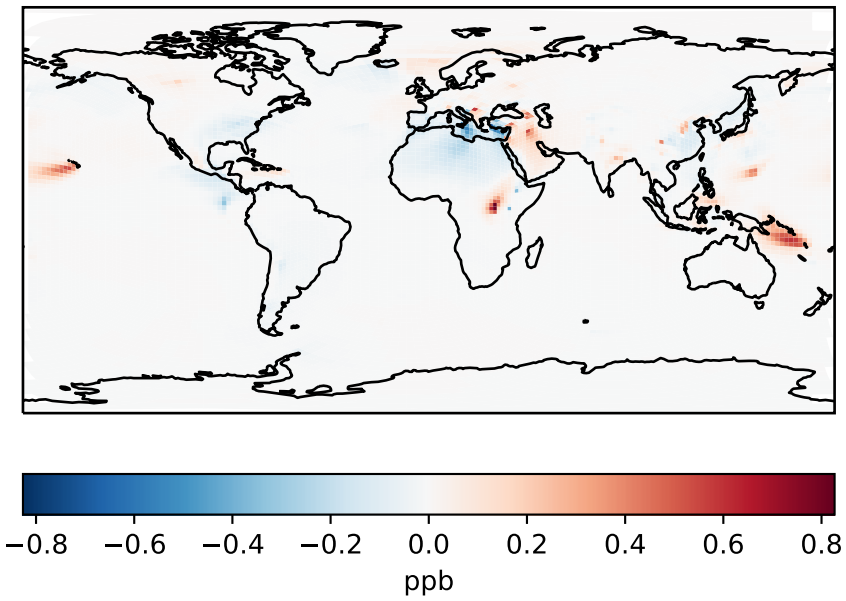


# SpeciesConc_SO4

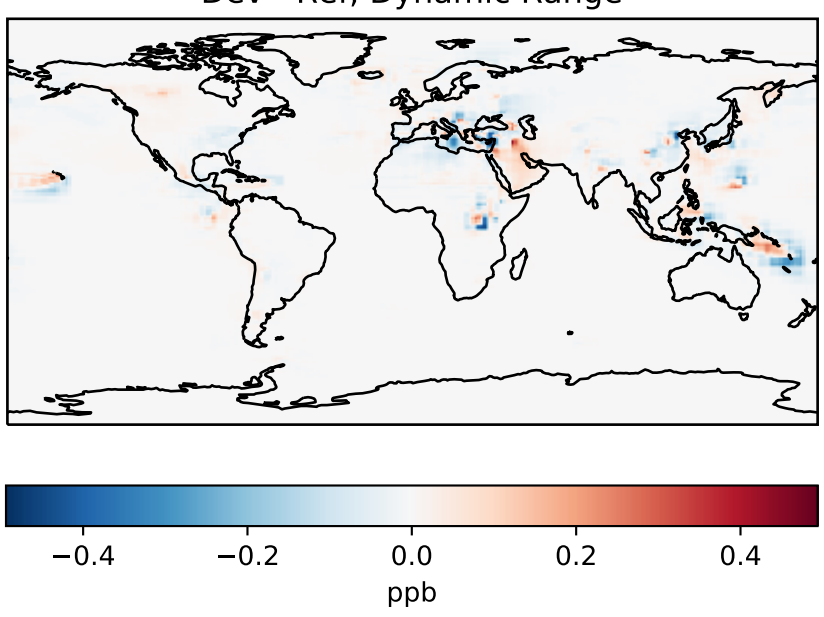
GC_12.5.0 - GC_12.4.0 (Ref)
4x5



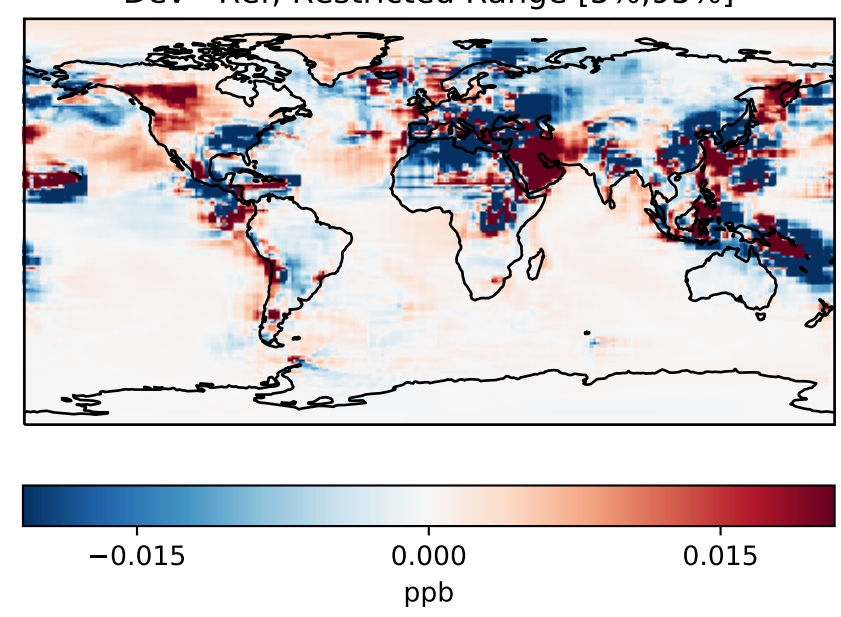

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



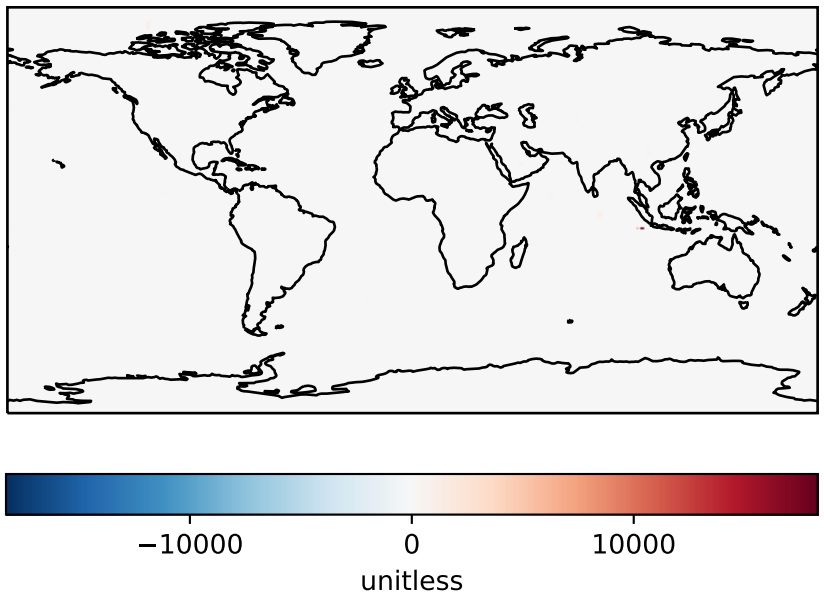

Difference (1x1.25)
Dev - Ref, Dynamic Range



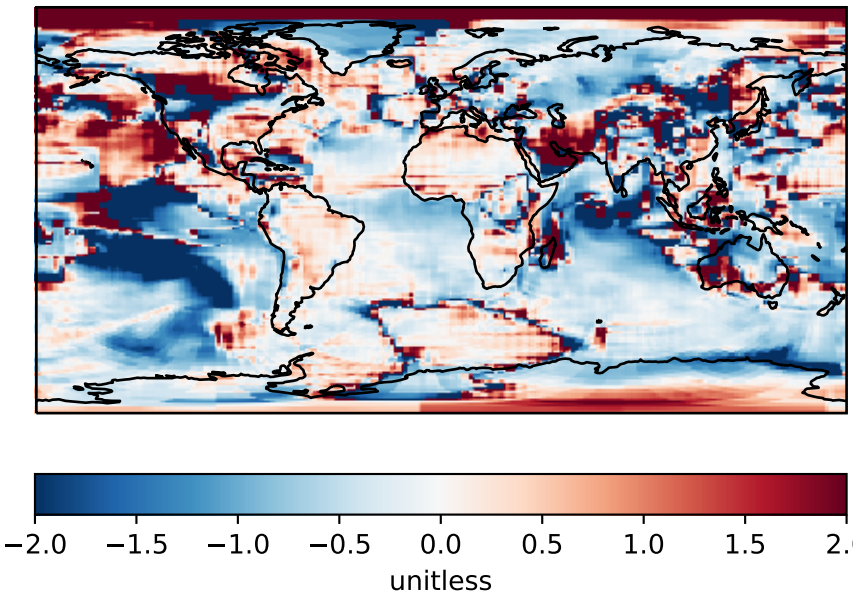

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]




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

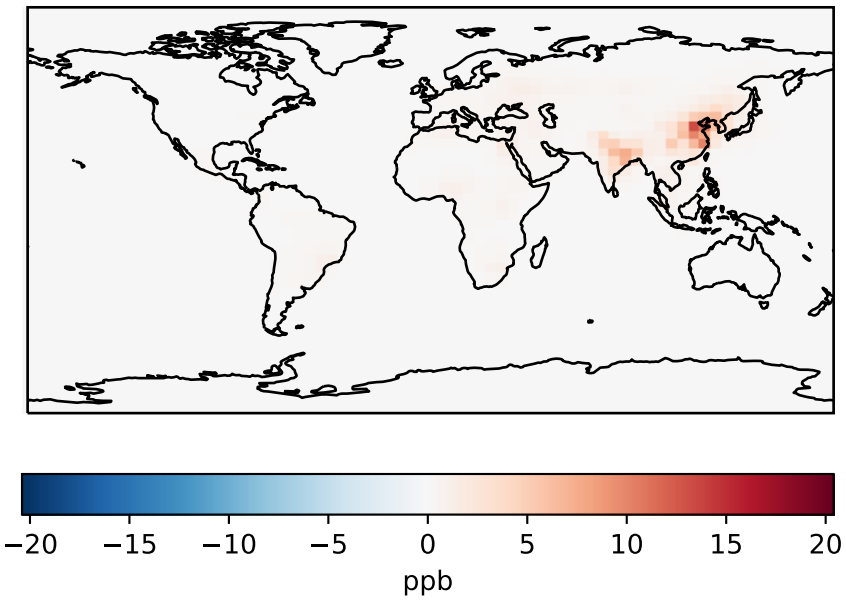



Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

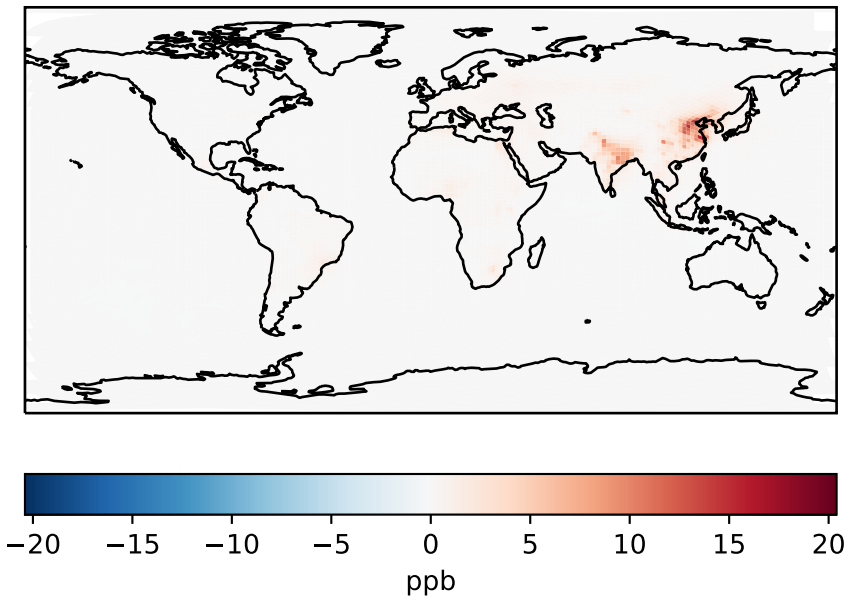


# SpeciesConc_DST1

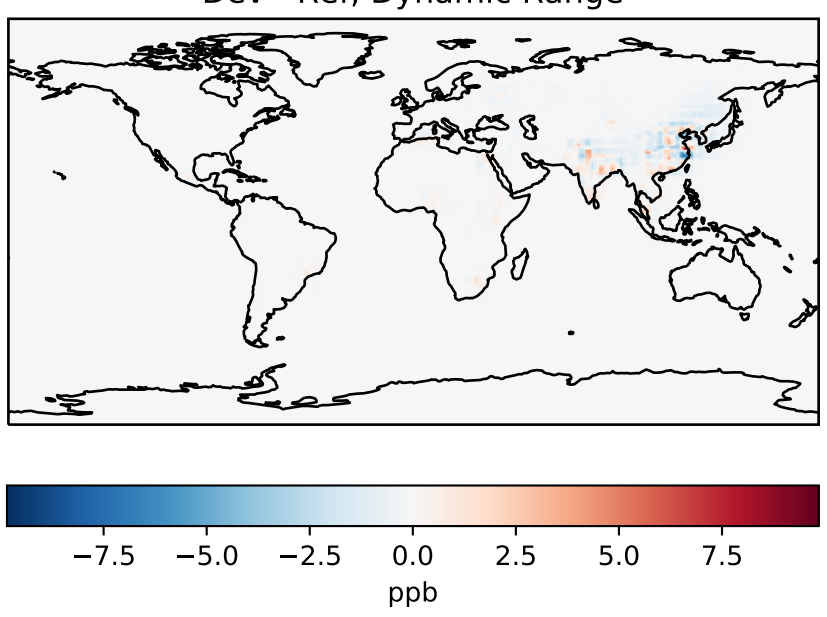
GC_12.5.0 - GC_12.4.0 (Ref)
4x5



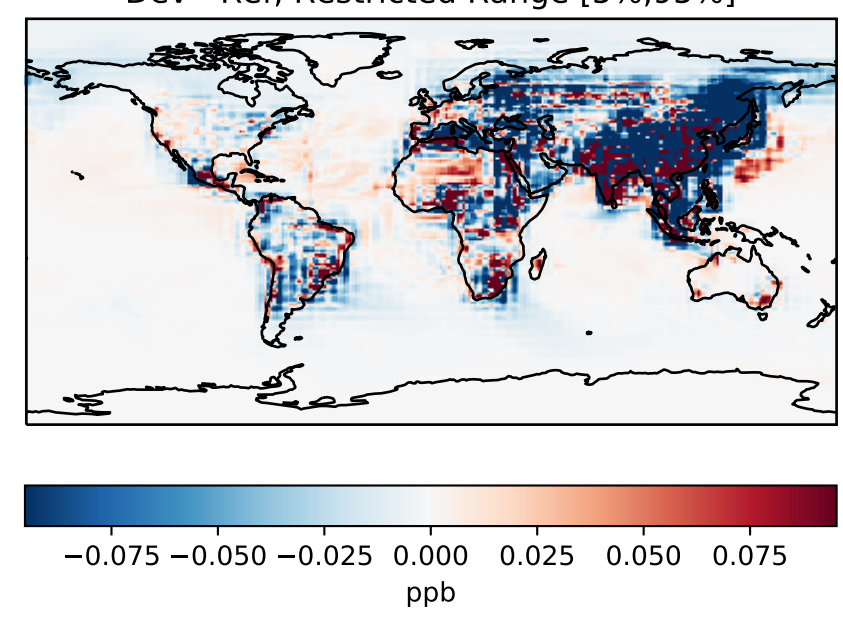

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



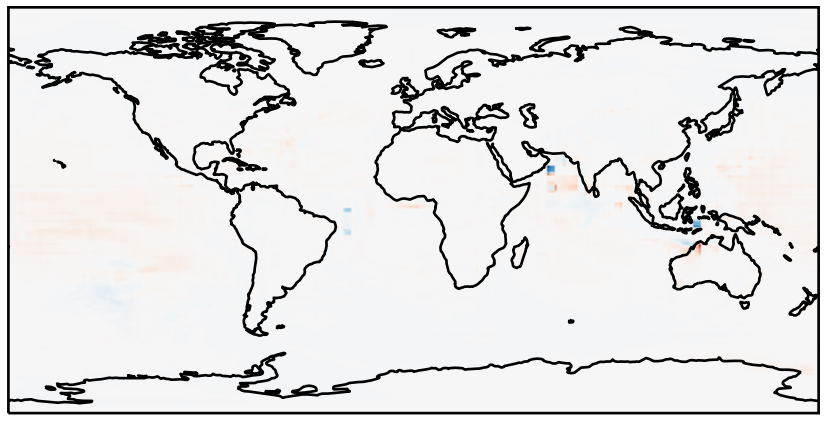

Difference (1x1.25)
Dev - Ref, Dynamic Range



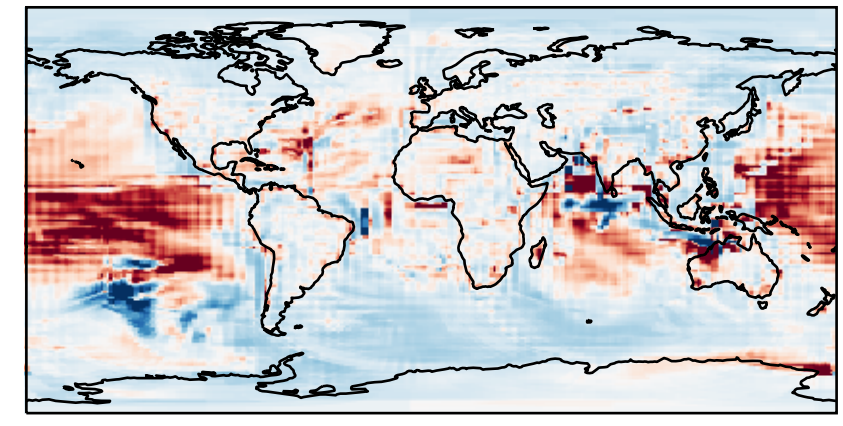

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]




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

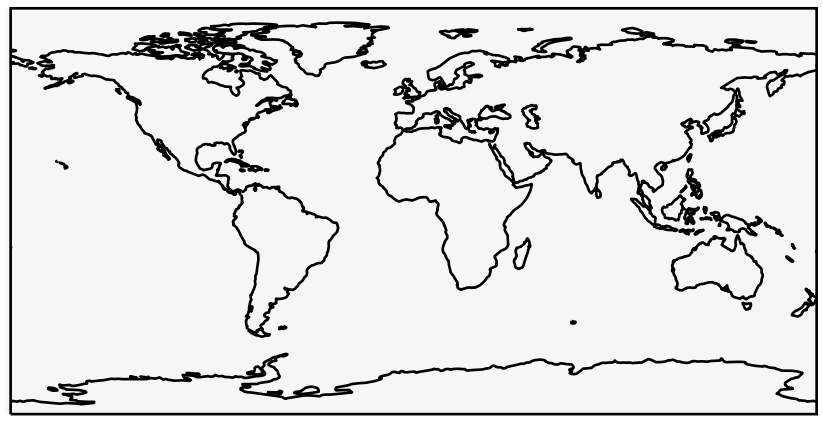



Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



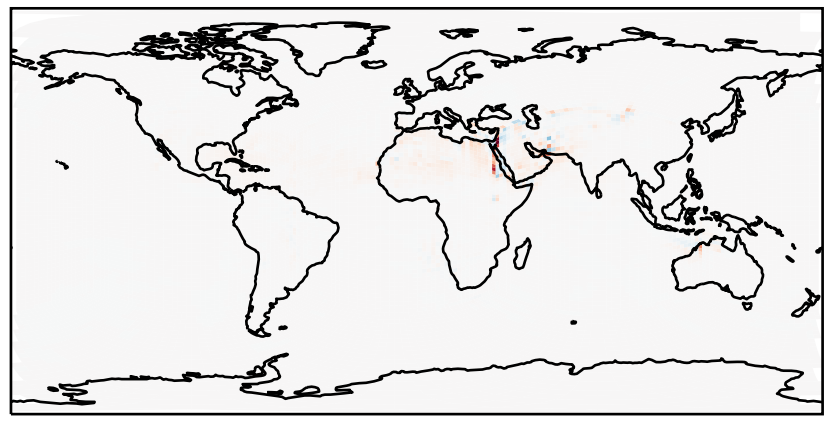
# SpeciesConc_DST2

GC_12.5.0 - GC_12.4.0 (Ref)
4x5



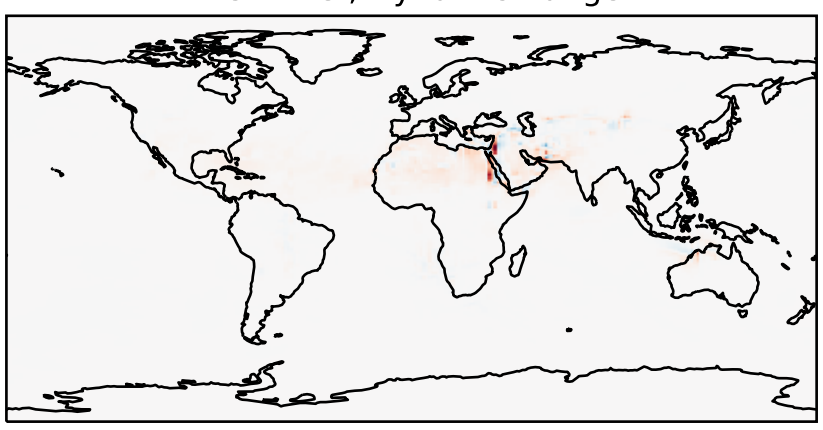
Zero throughout domain
ppb

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



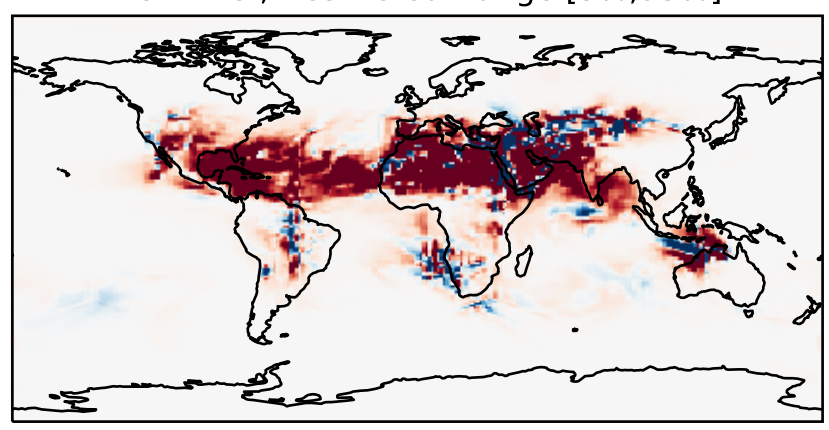
ppb

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



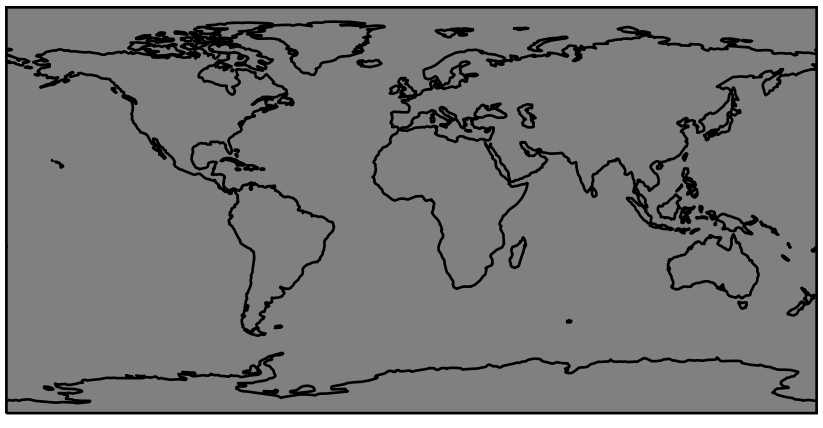
ppb

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



ppb

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



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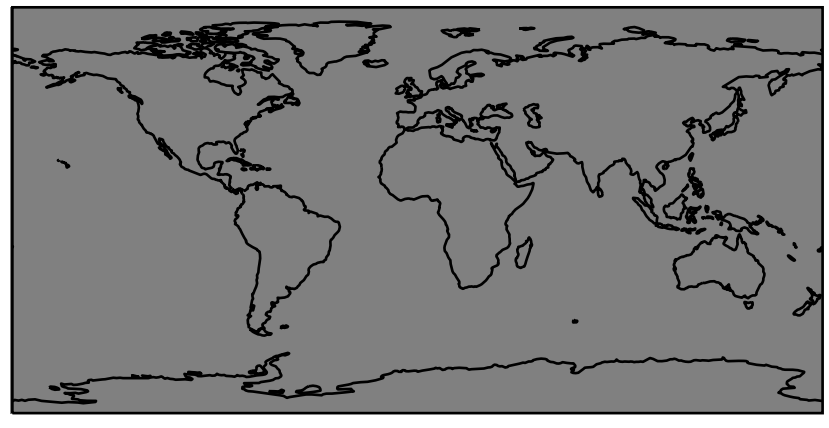
unitless

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



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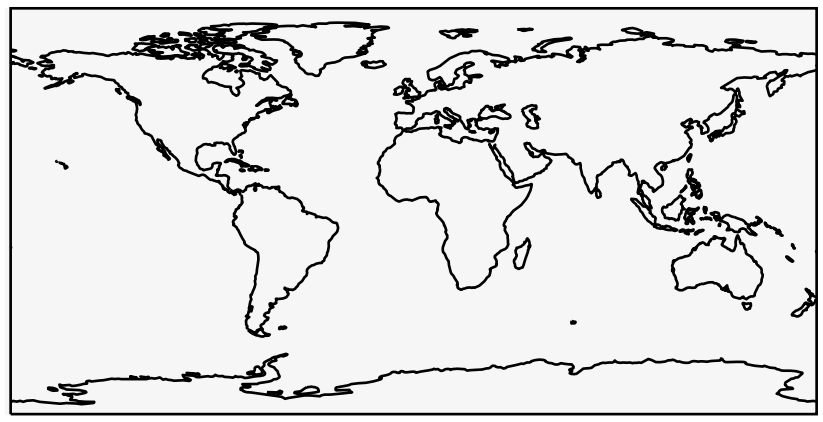
# SpeciesConc_DST3

GC_12.5.0 - GC_12.4.0 (Ref)
4x5



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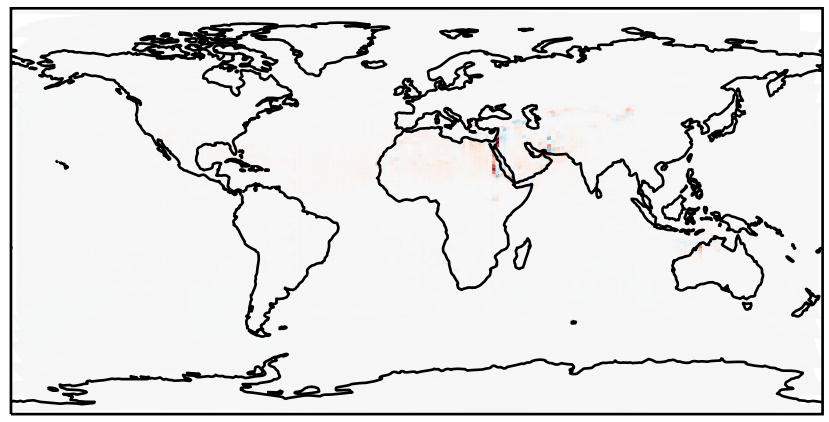
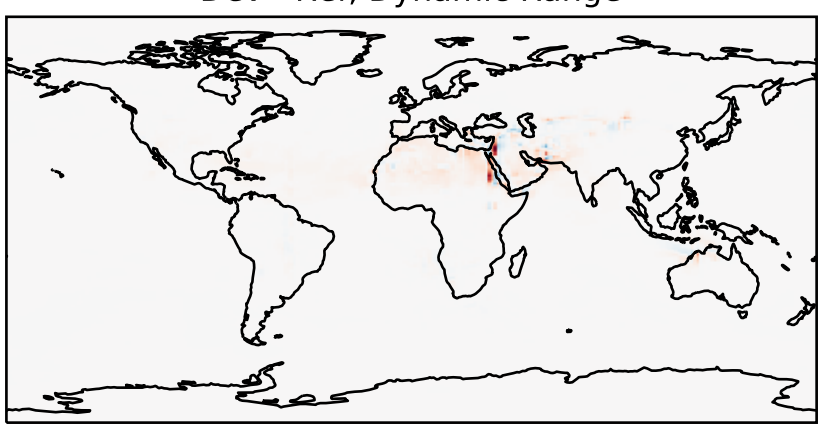
ppb

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



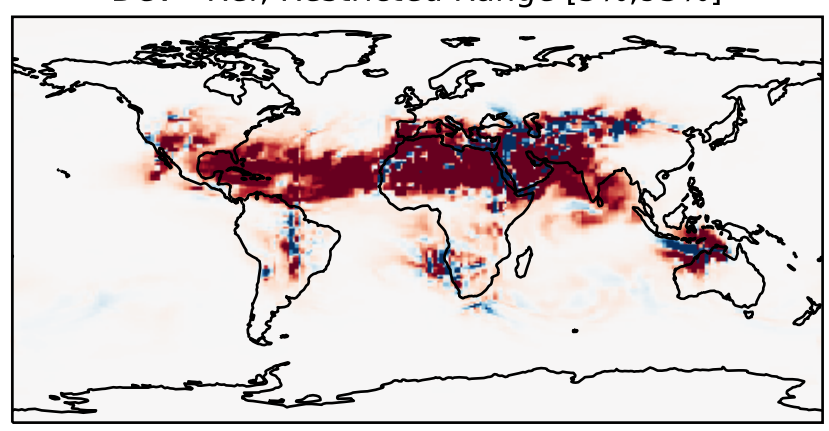
ppb

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



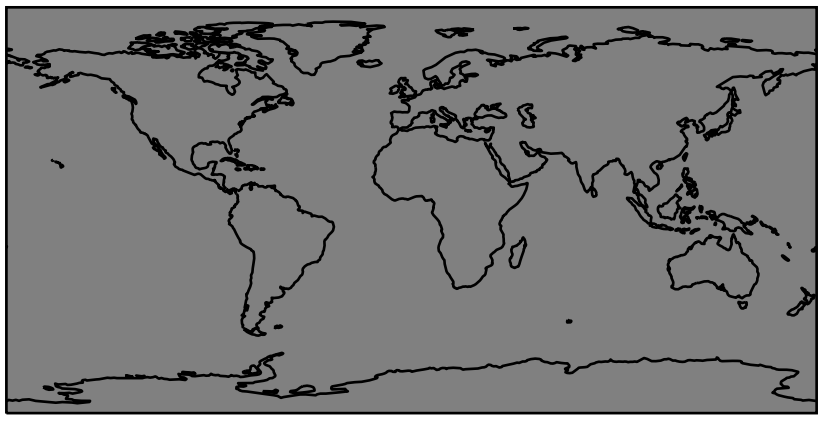
ppb

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



ppb

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



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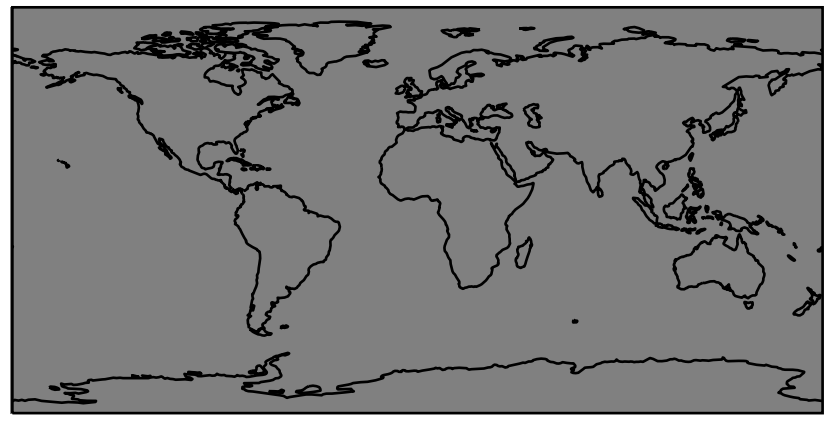
Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



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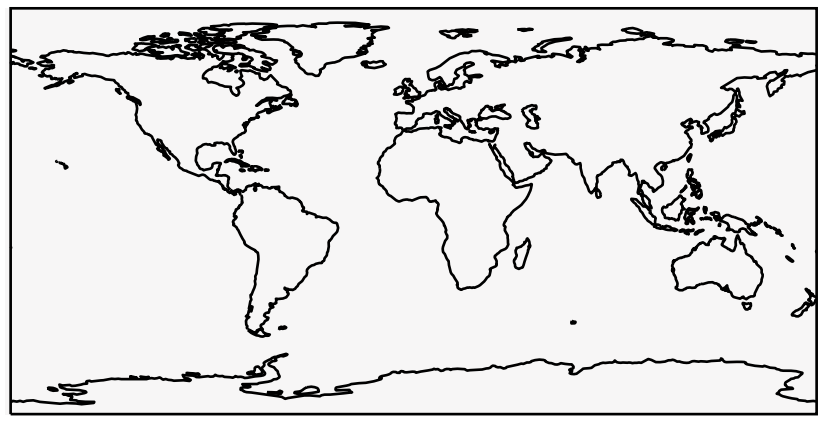
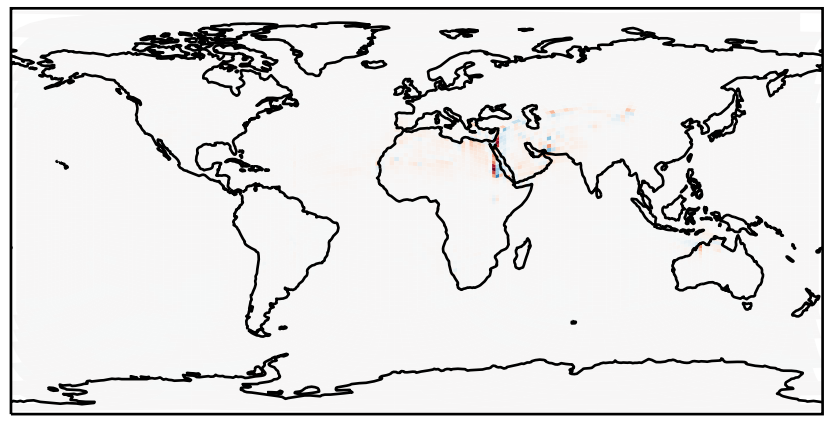
# SpeciesConc_DST4

GC_12.5.0 - GC_12.4.0 (Ref)
4x5



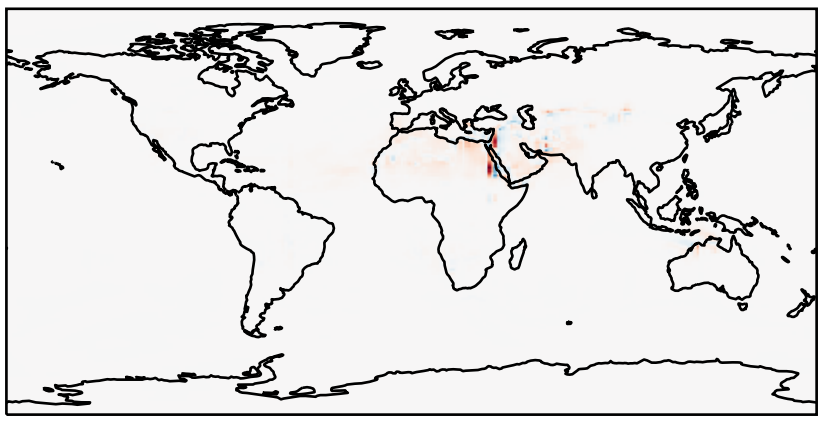
Zero throughout domain
ppb

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



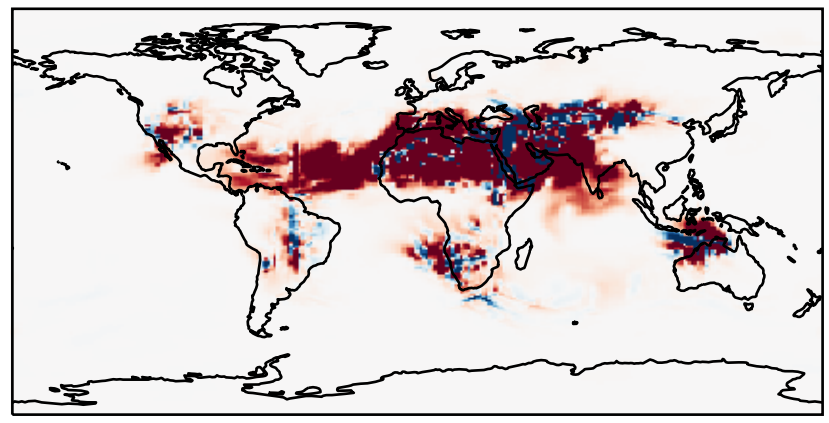
ppb

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



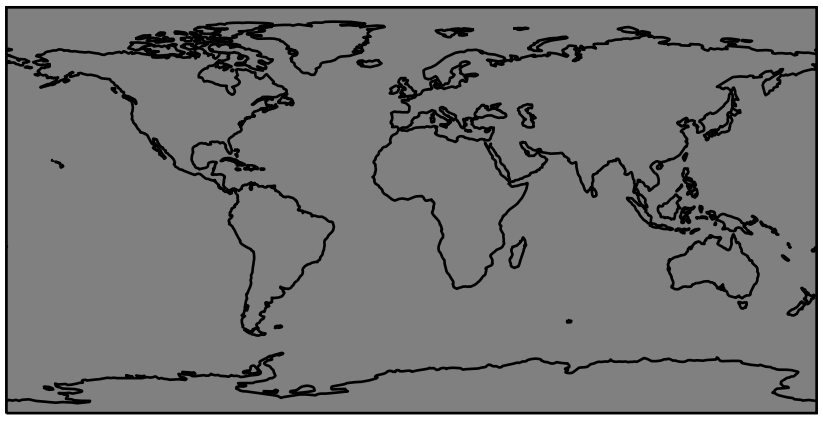
ppb

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



ppb

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



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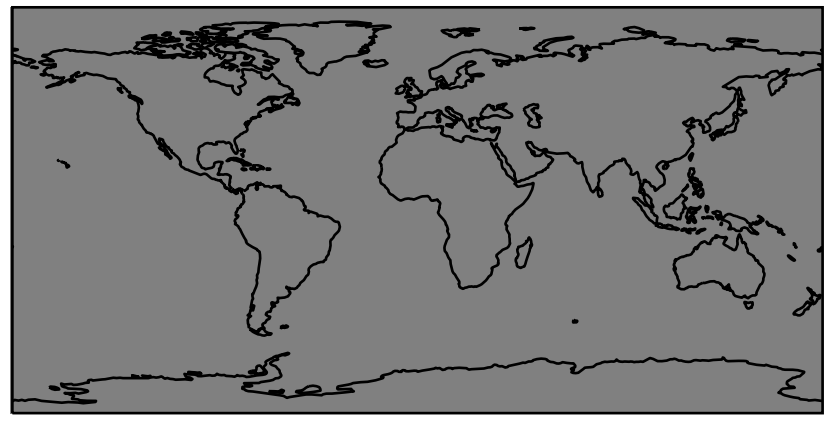
Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



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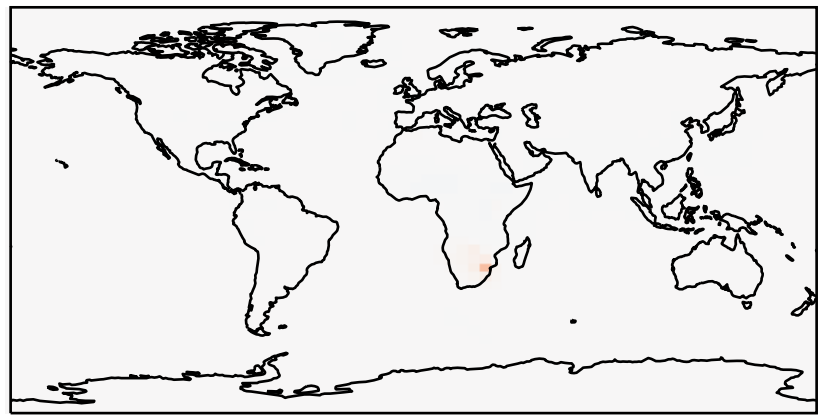
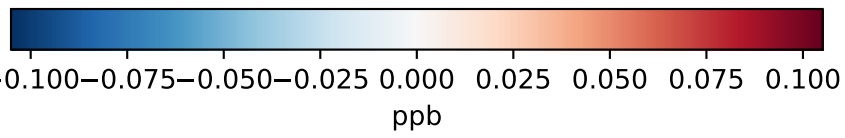
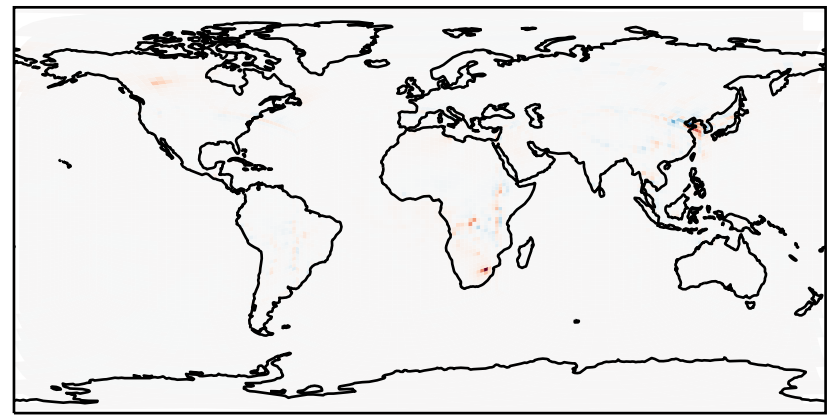
# SpeciesConc_BCPI

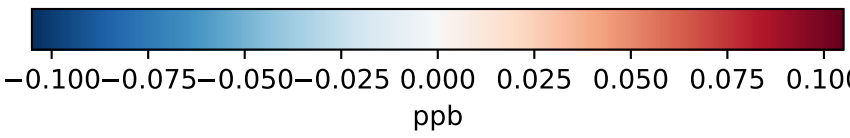
GC_12.5.0 - GC_12.4.0 (Ref)
4x5



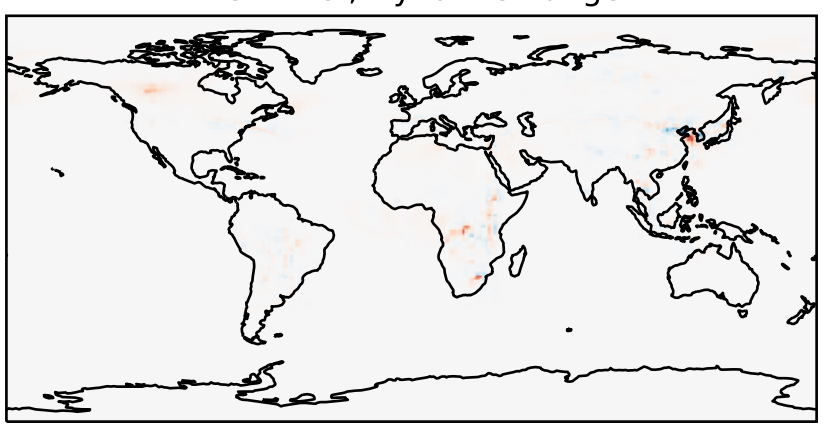


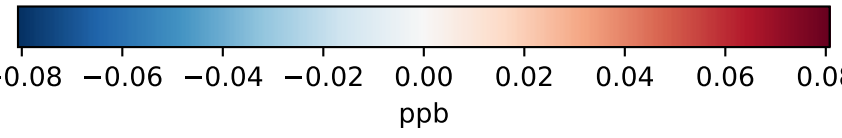

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



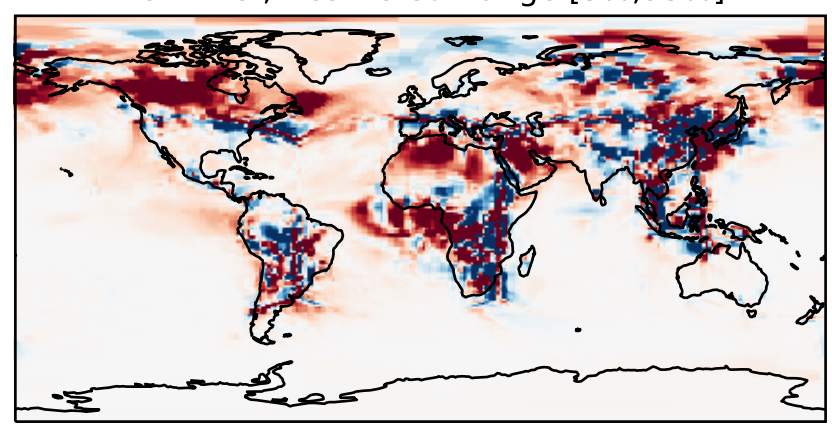


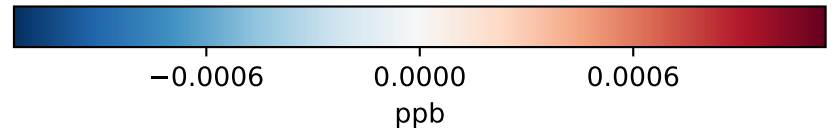

Difference (1x1.25)
Dev - Ref, Dynamic Range



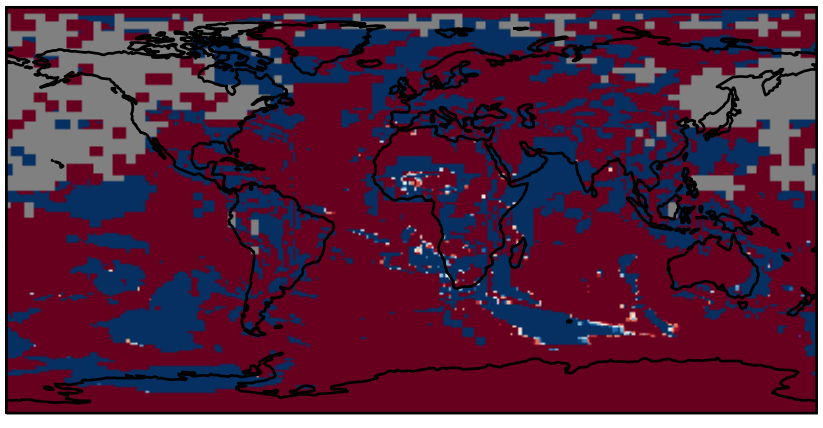


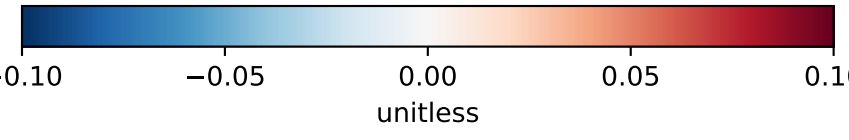

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



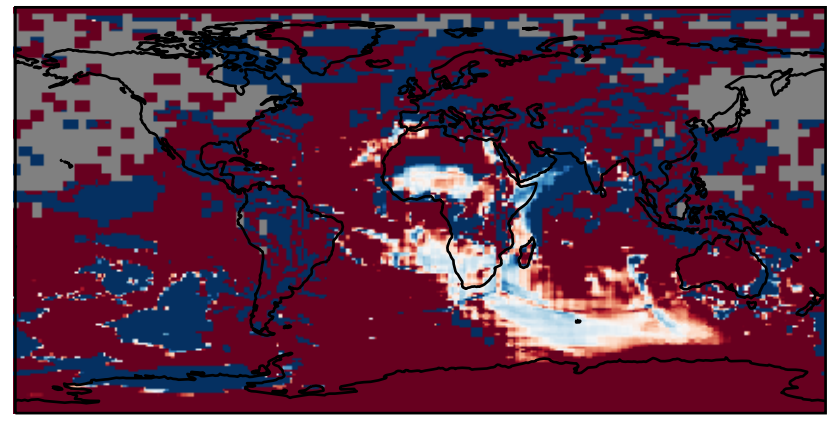


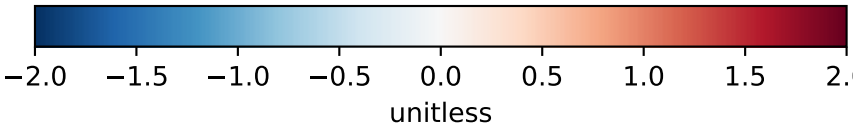

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range





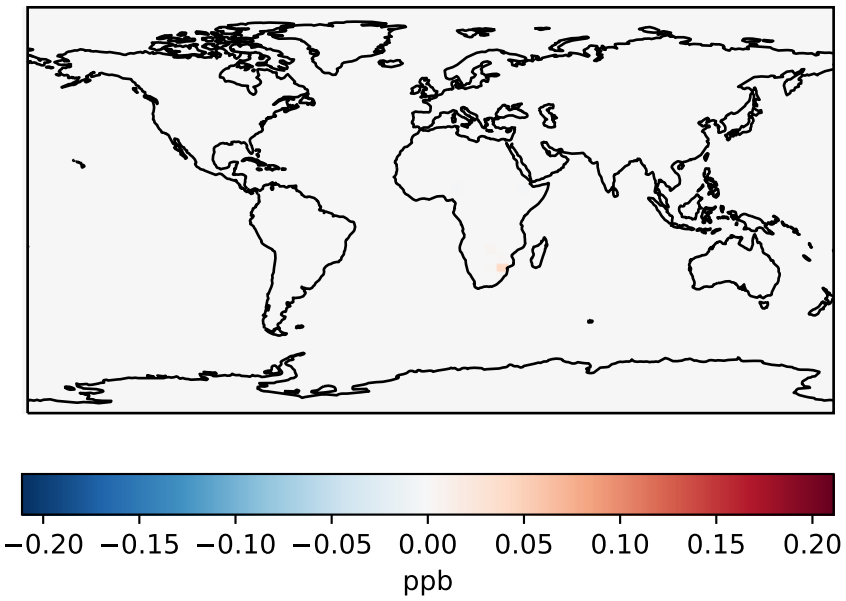

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



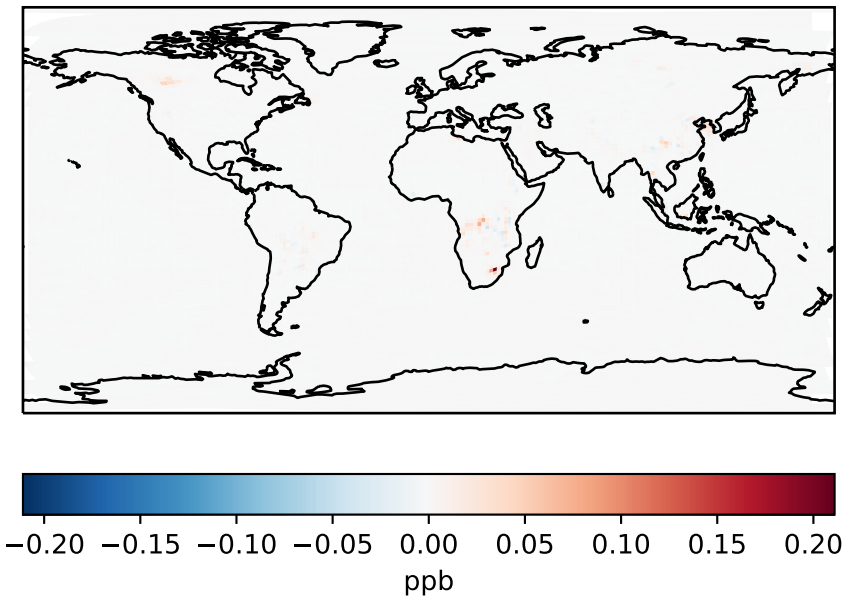


# SpeciesConc_BCPO

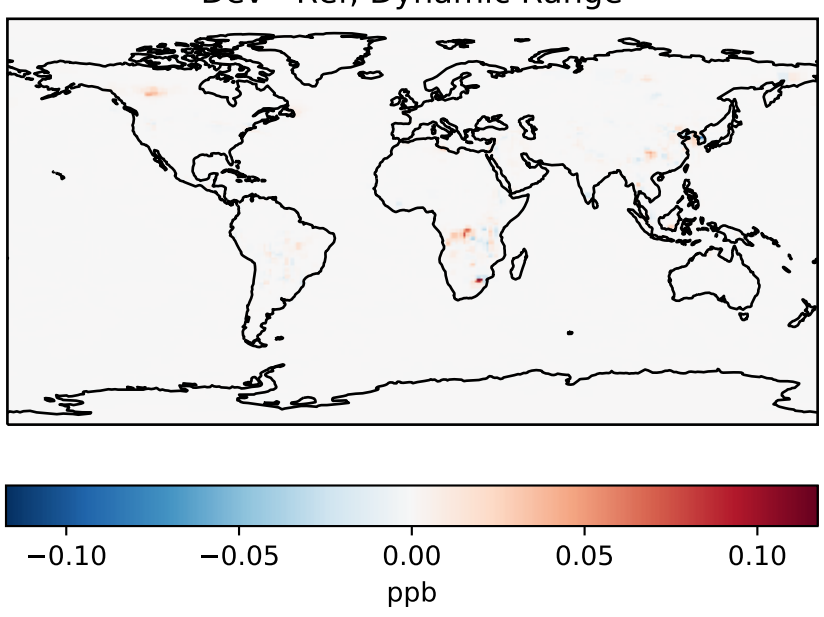
GC_12.5.0 - GC_12.4.0 (Ref)
4x5



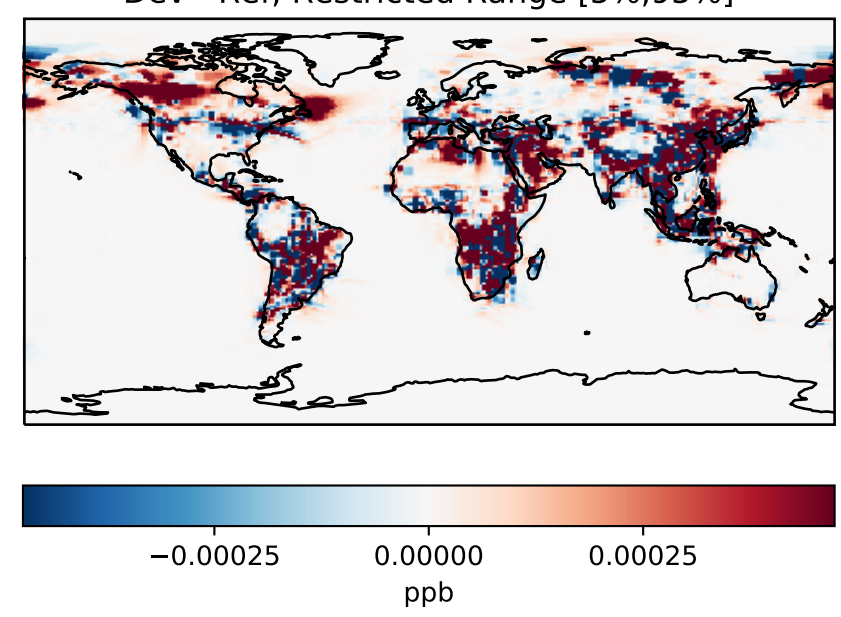

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



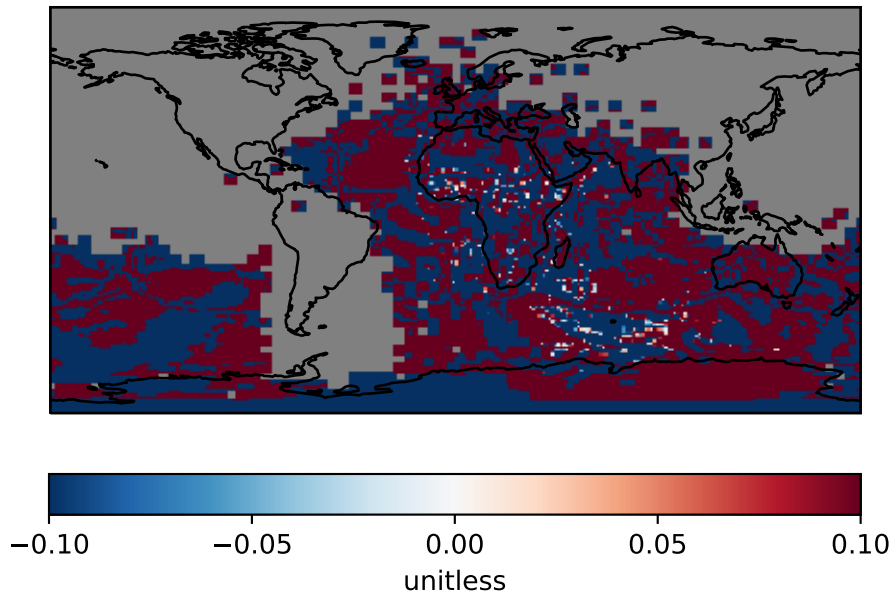

Difference (1x1.25)
Dev - Ref, Dynamic Range



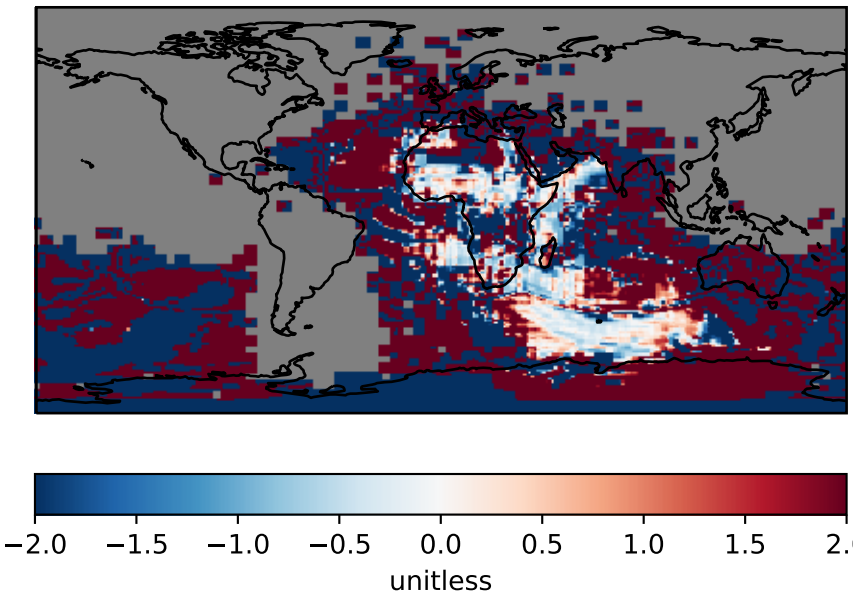

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]




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

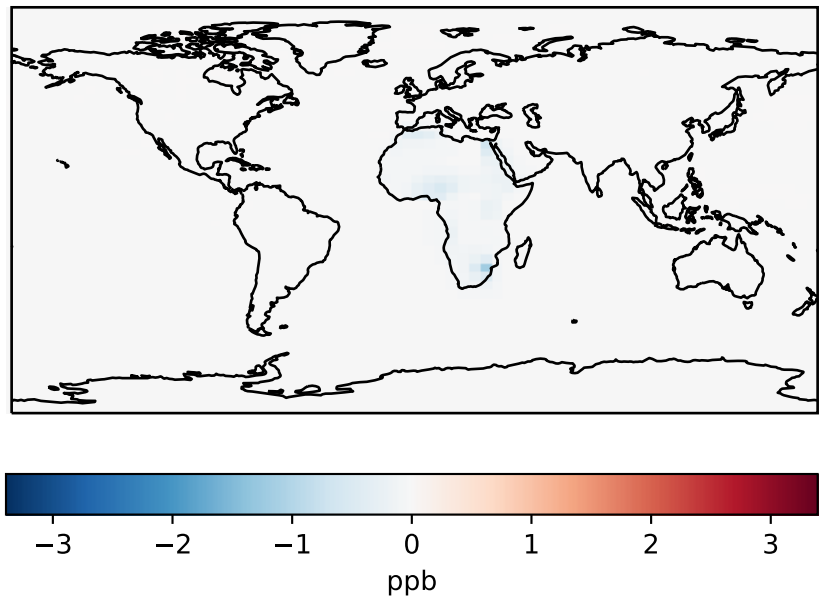



Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

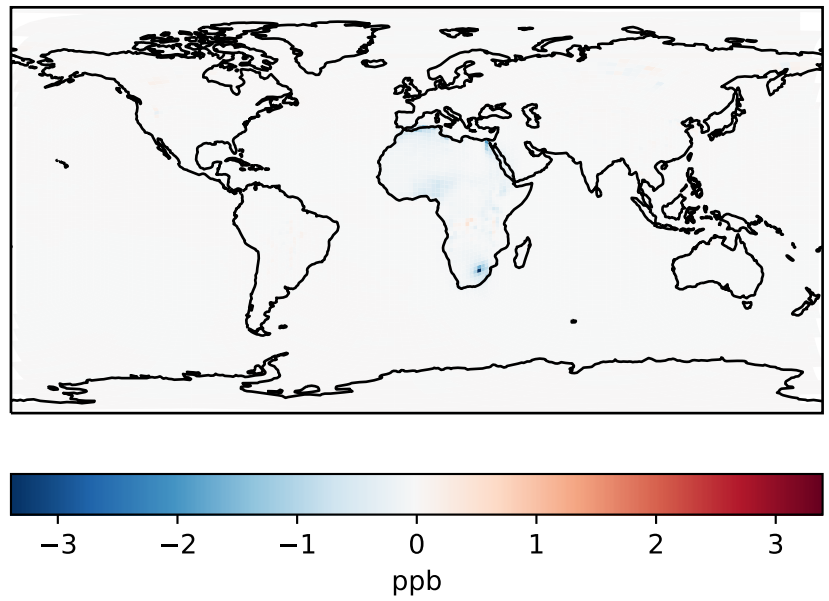


# SpeciesConc_OCPI

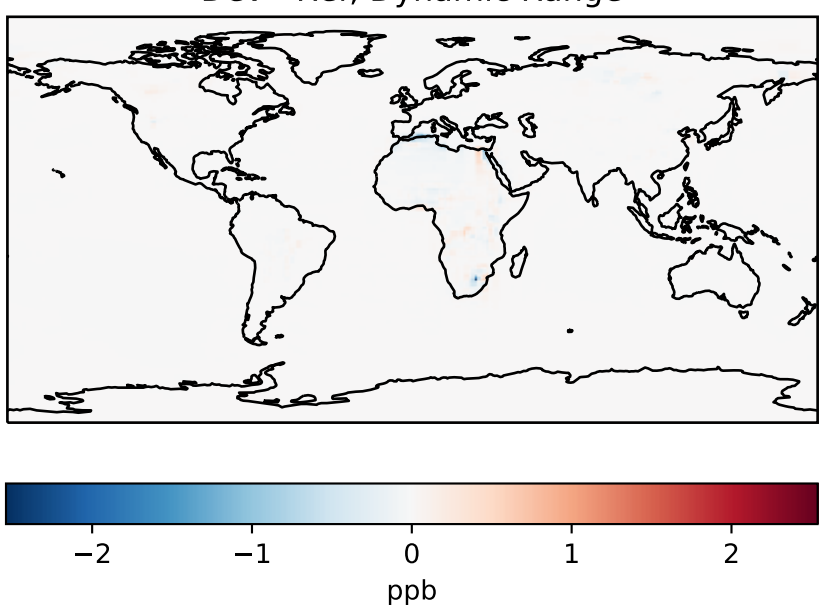
GC_12.5.0 - GC_12.4.0 (Ref)
4x5



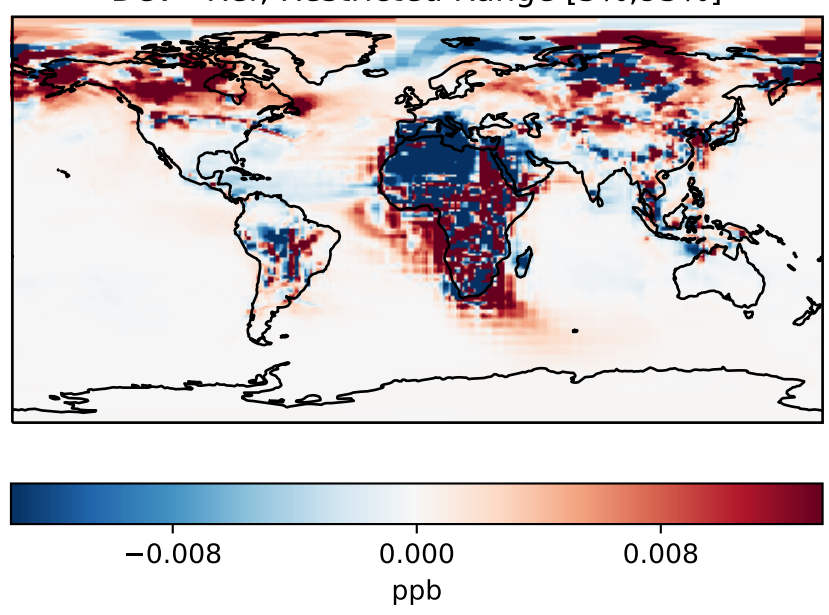

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



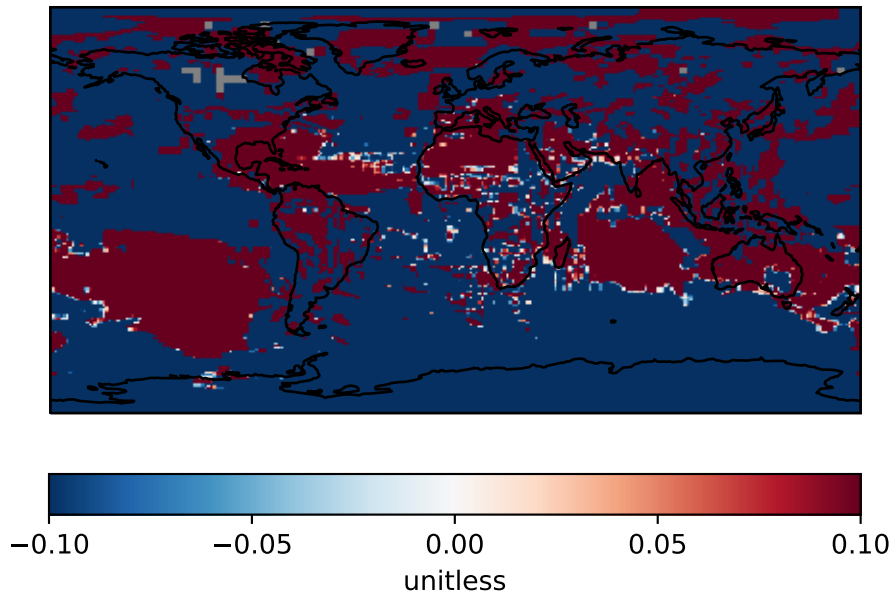

Difference (1x1.25)
Dev - Ref, Dynamic Range



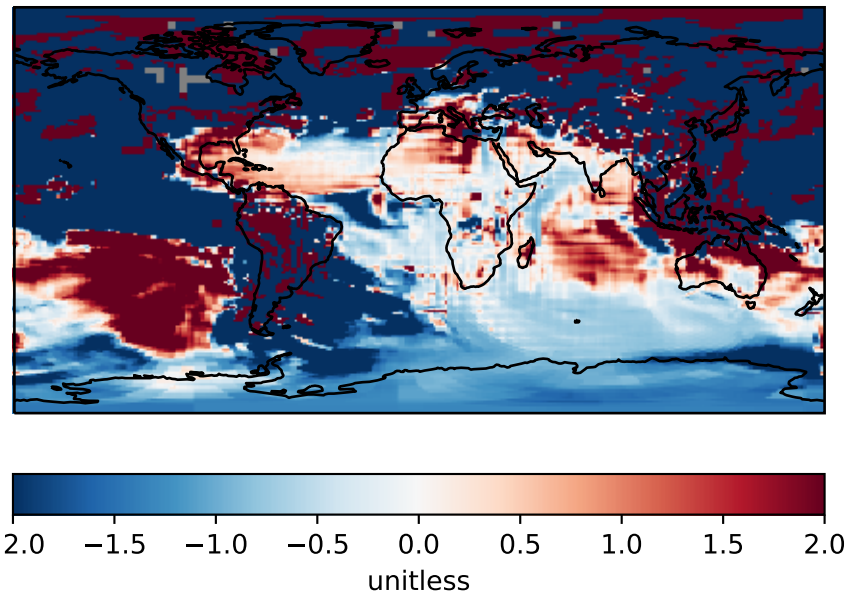

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]




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

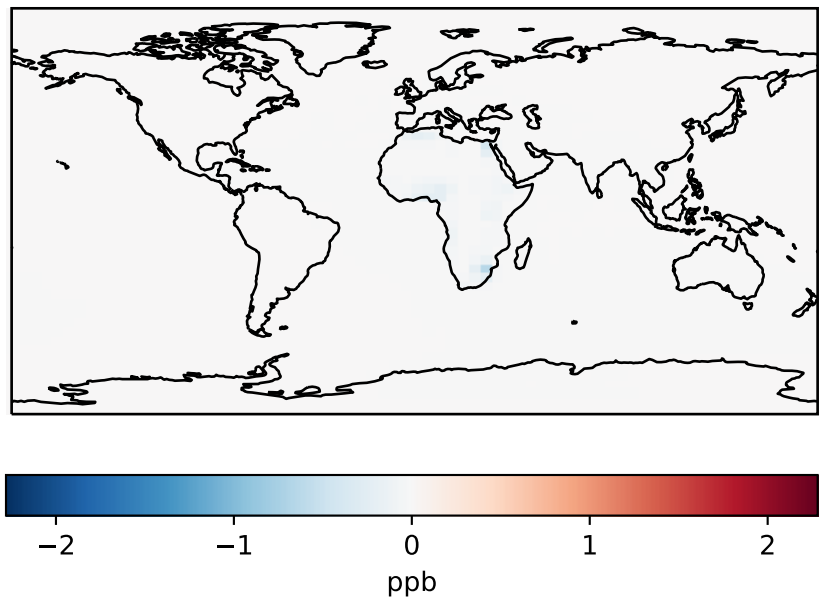



Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

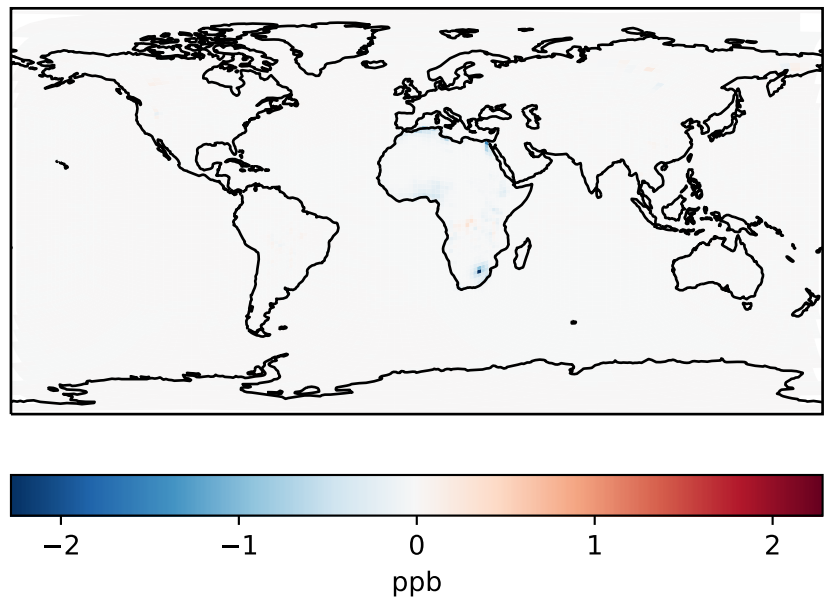


# SpeciesConc_OCPO

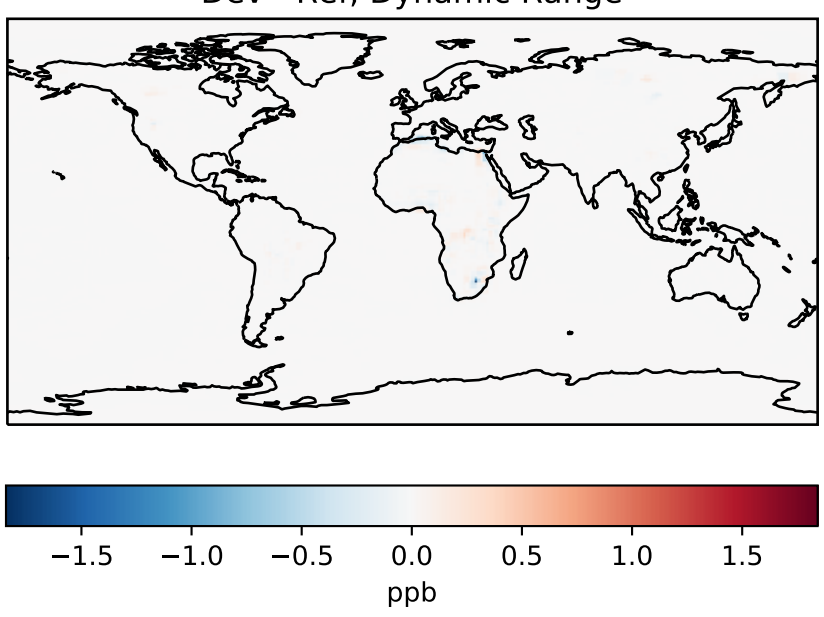
GC_12.5.0 - GC_12.4.0 (Ref)
4x5



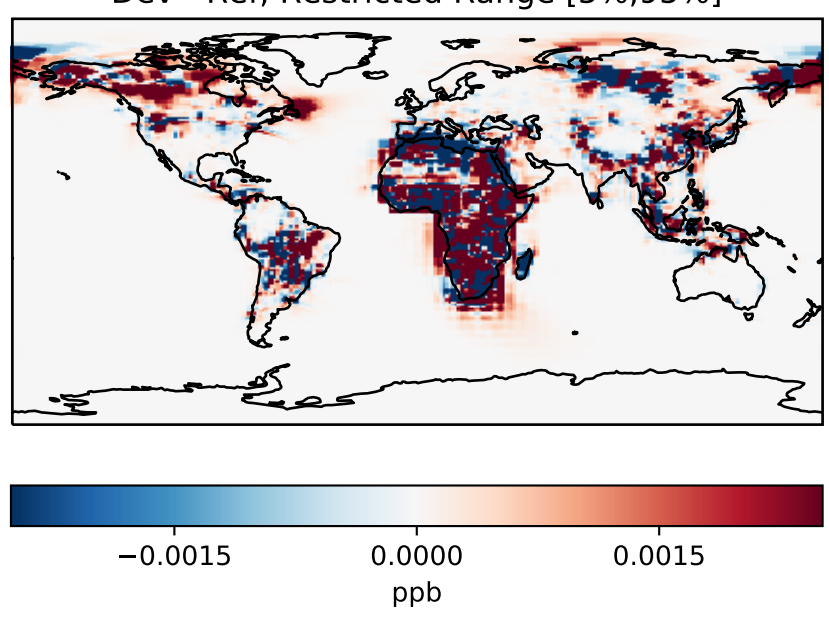

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



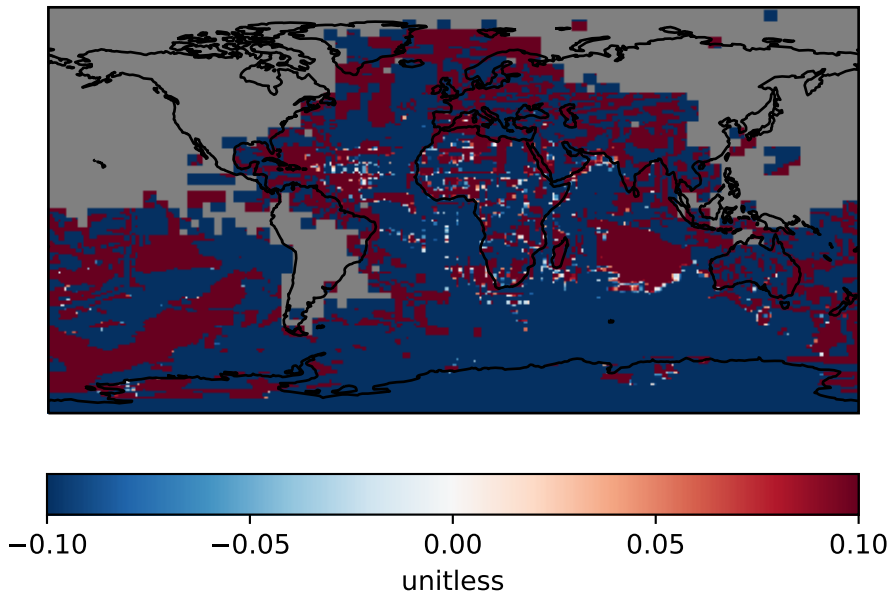

Difference (1x1.25)
Dev - Ref, Dynamic Range



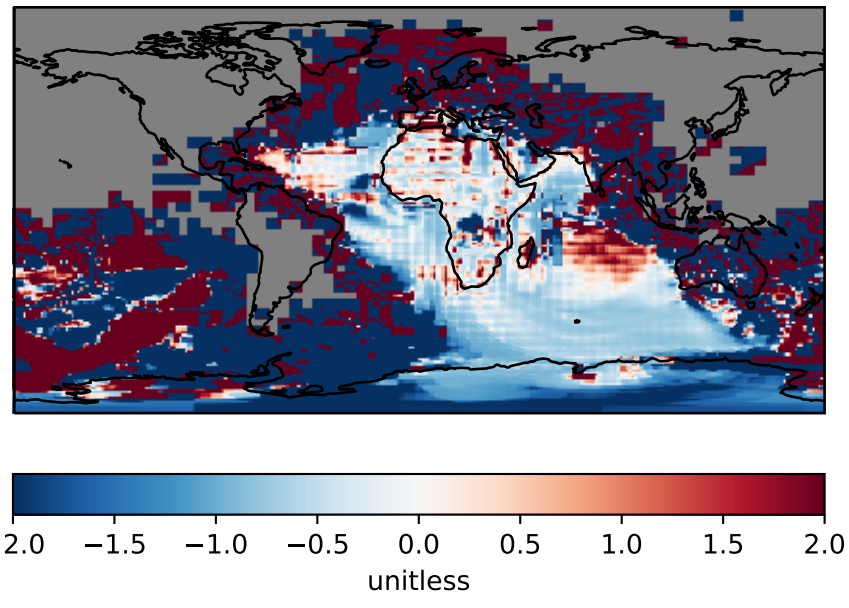

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]




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

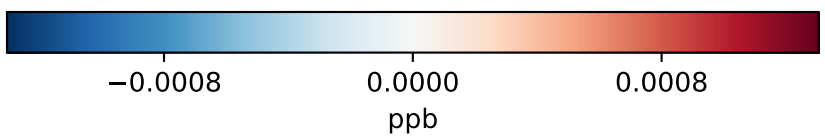



Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

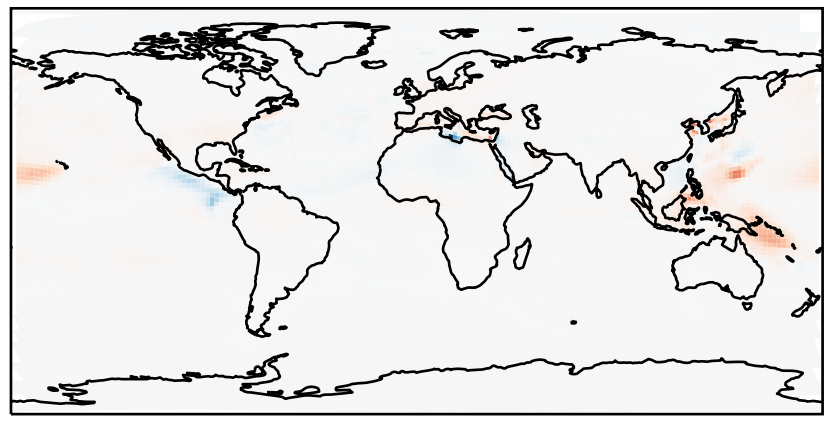


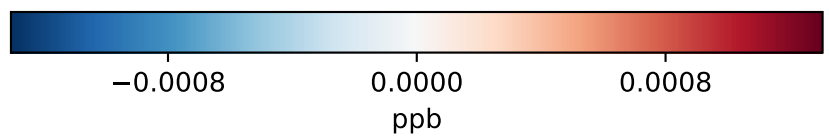
# SpeciesConc_AERI

GC_12.5.0 - GC_12.4.0 (Ref)
4x5

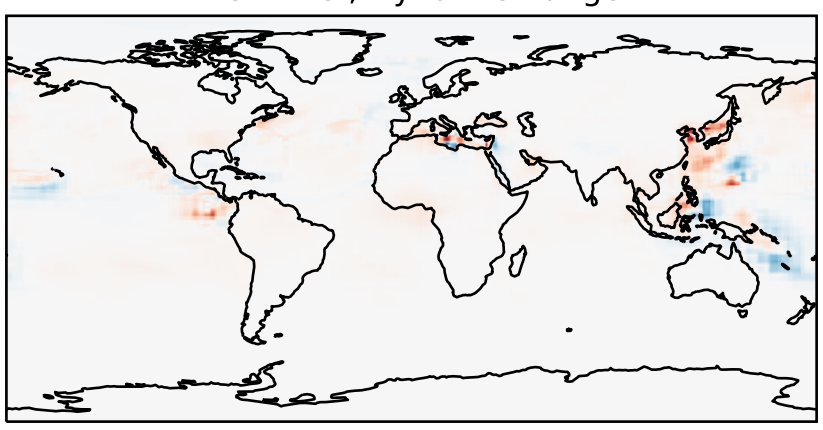


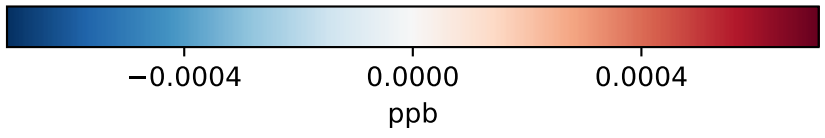

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



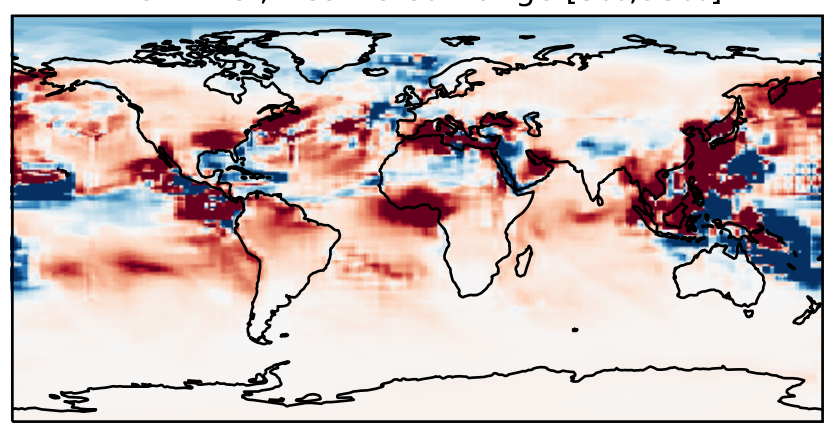


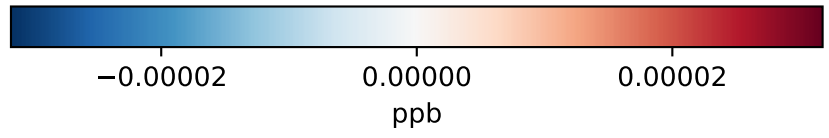

Difference (1x1.25)
Dev - Ref, Dynamic Range



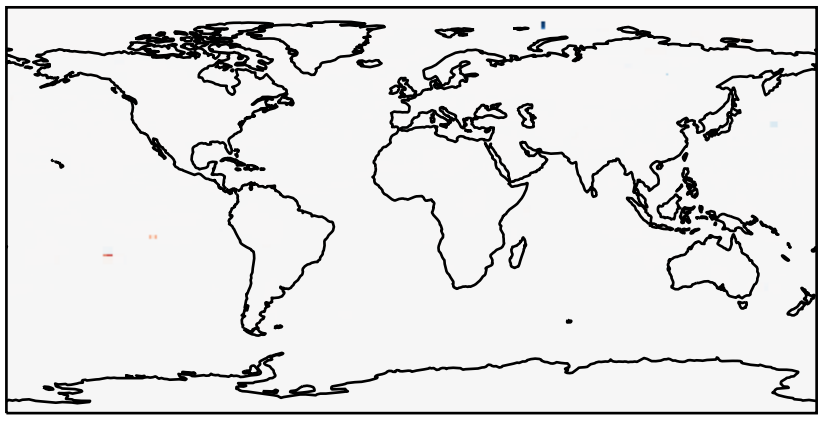


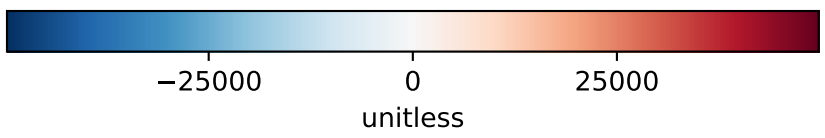

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



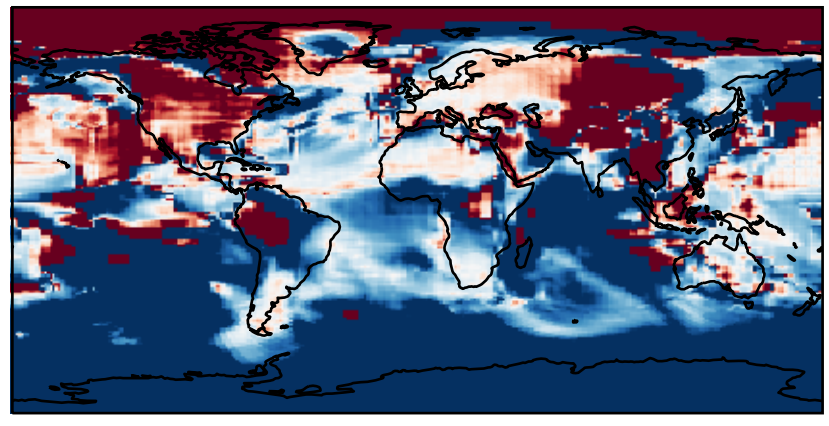


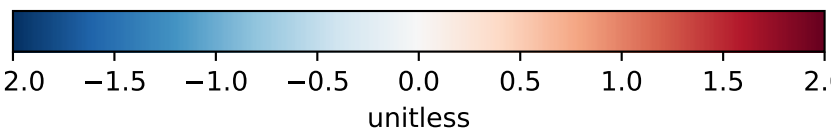

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range





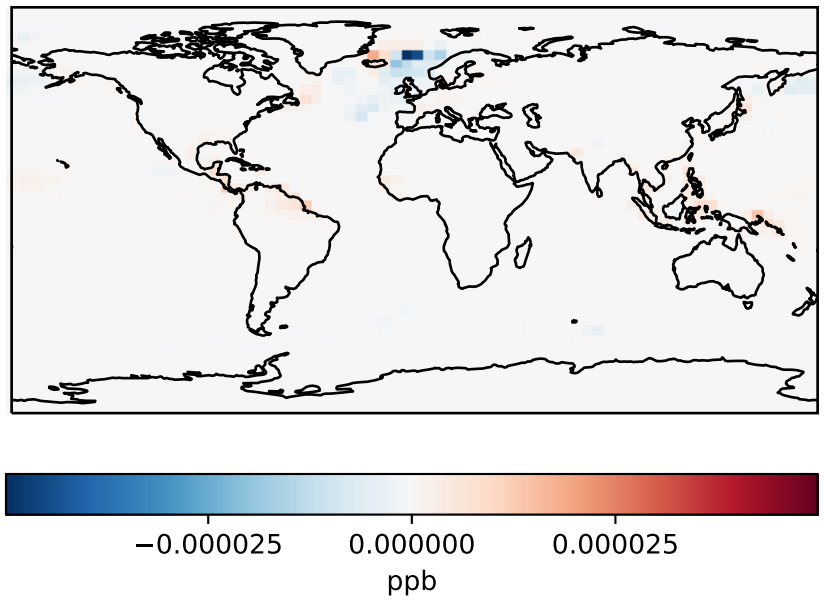

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



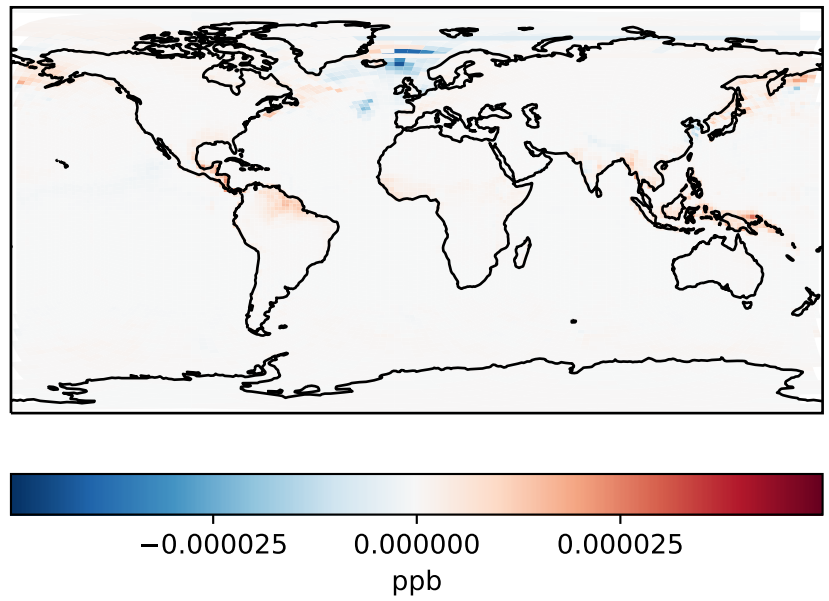


# SpeciesConc_BrSALA

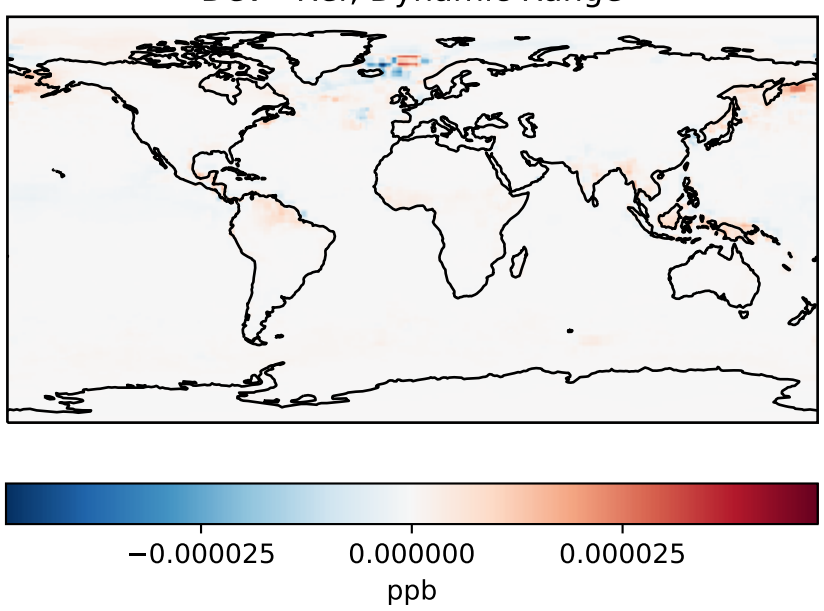
GC_12.5.0 - GC_12.4.0 (Ref)
4x5



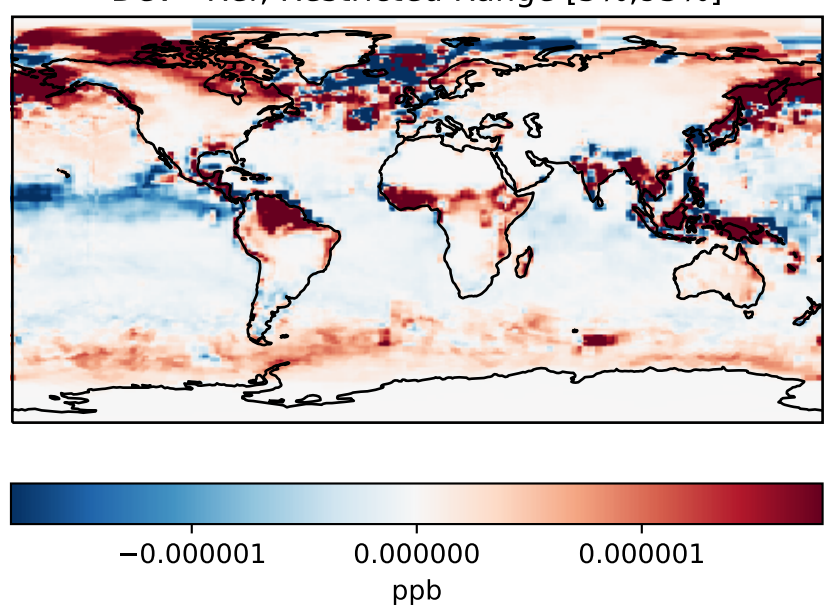

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



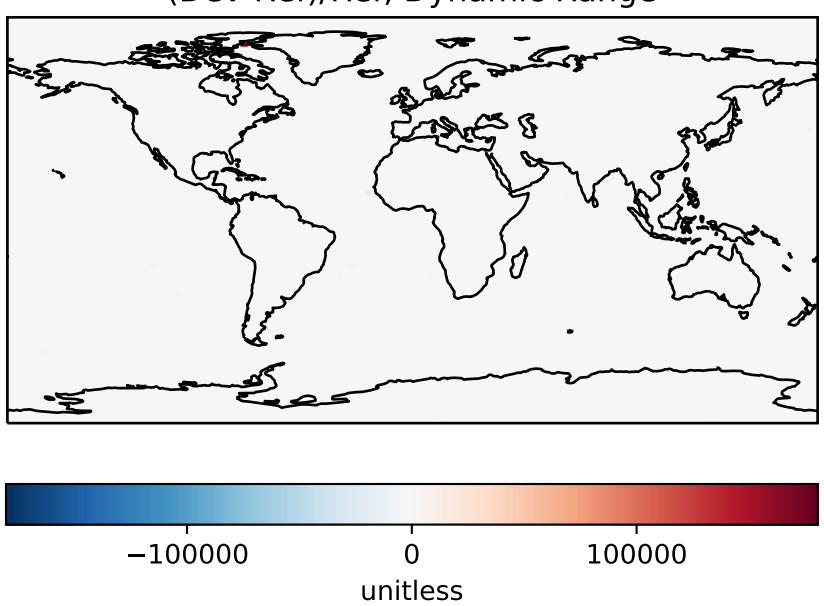

Difference (1x1.25)
Dev - Ref, Dynamic Range



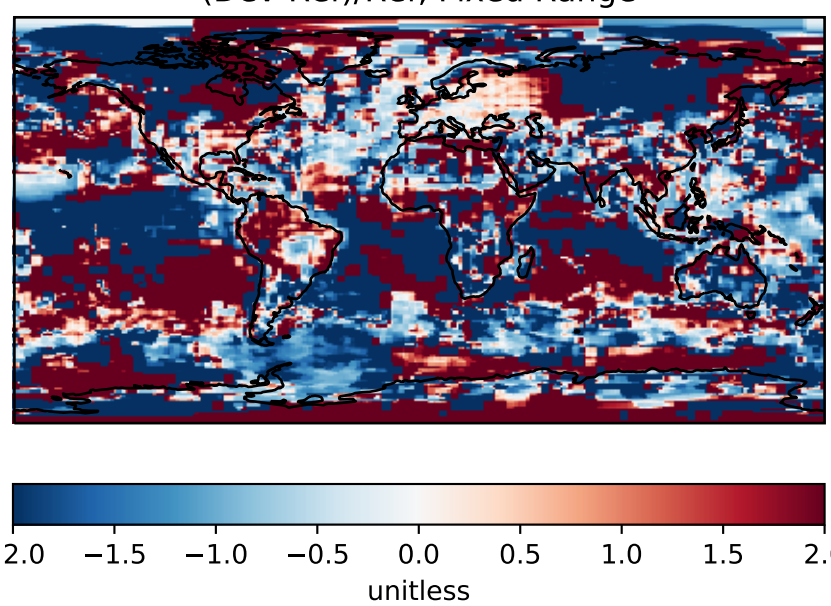

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]




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

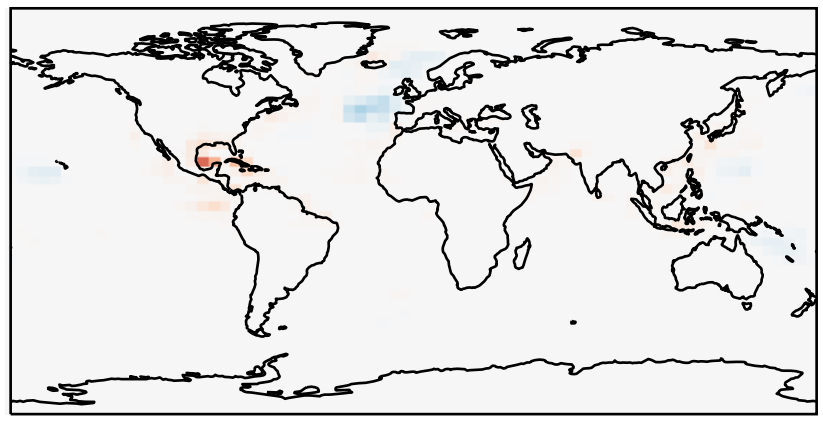



Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



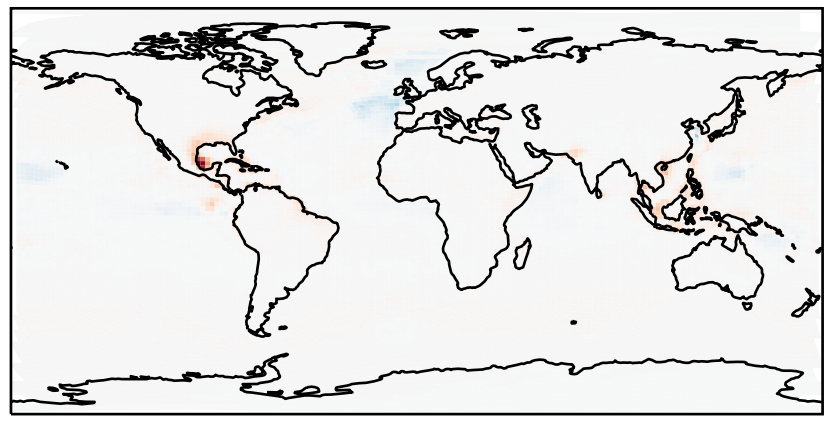
# SpeciesConc_BrSALC

GC_12.5.0 - GC_12.4.0 (Ref)
4x5



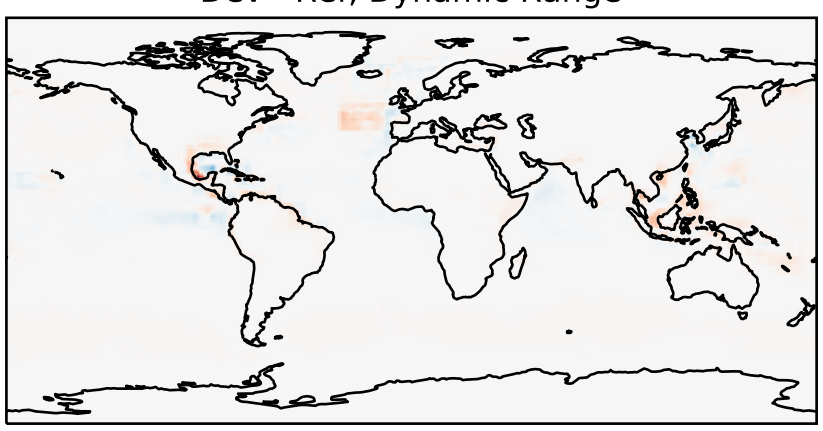
−0.0003 0.0000 0.0003
ppb

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



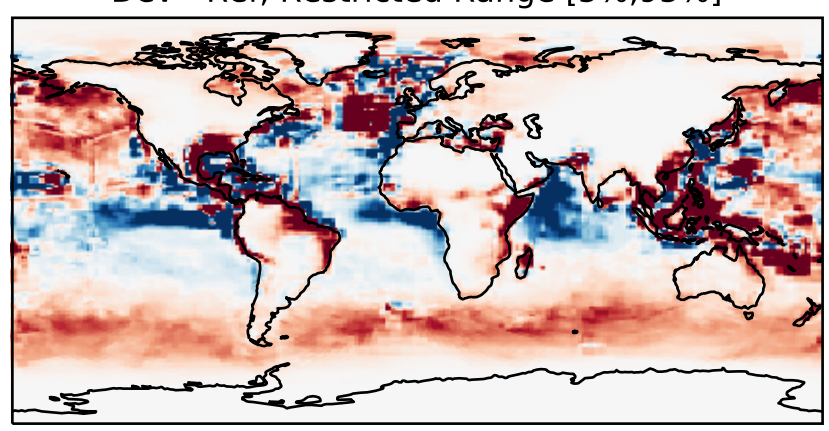
−0.0003 0.0000 0.0003
ppb

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



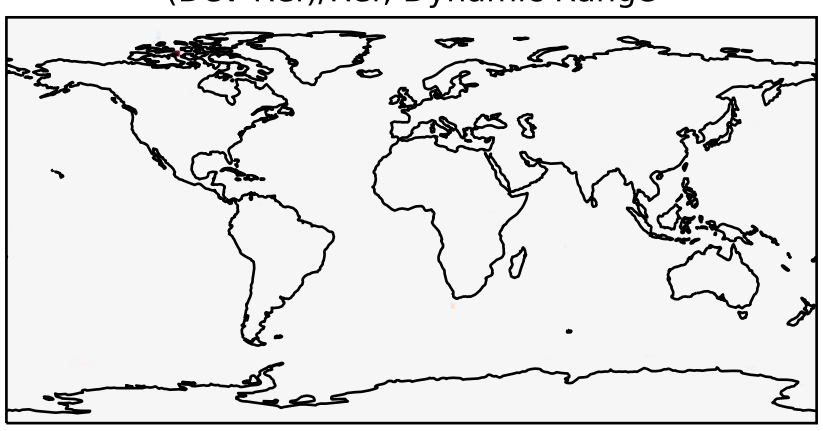
−0.0002 0.0000 0.0002
ppb

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



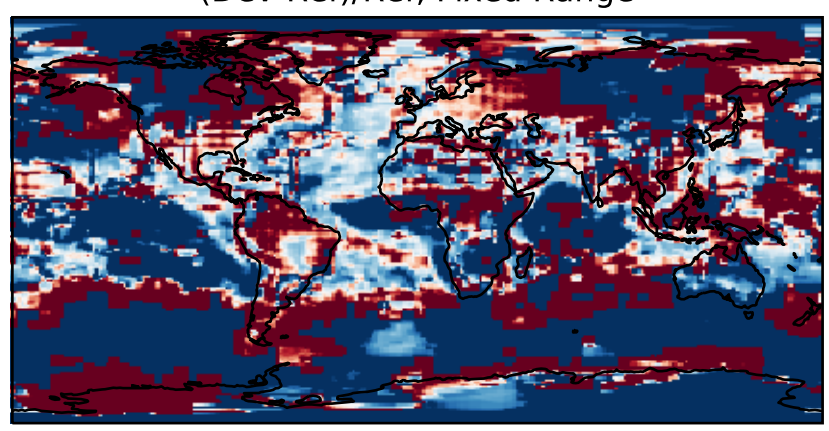
−0.000005 0.000000 0.000005
ppb

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



−100000 0 100000
unitless

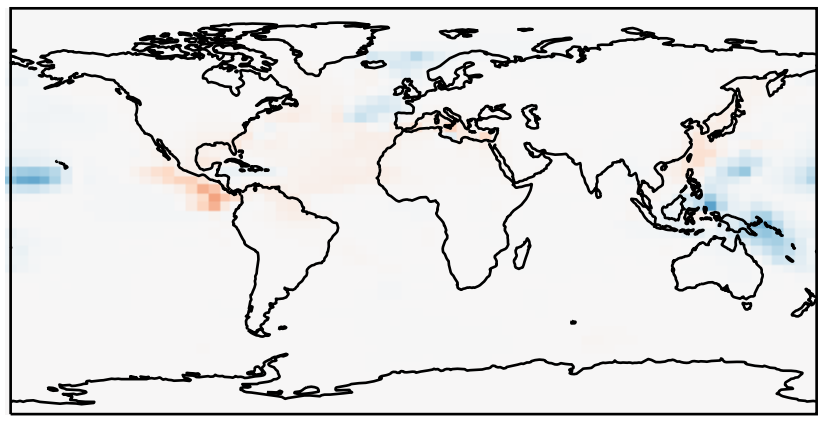
Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

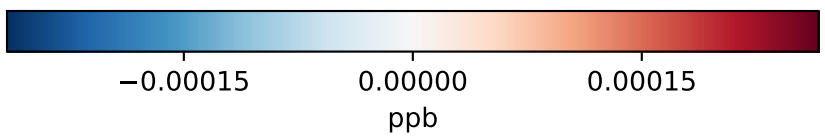


−2.0 −1.5 −1.0 −0.5 0.0 0.5 1.0 1.5 2.0
unitless

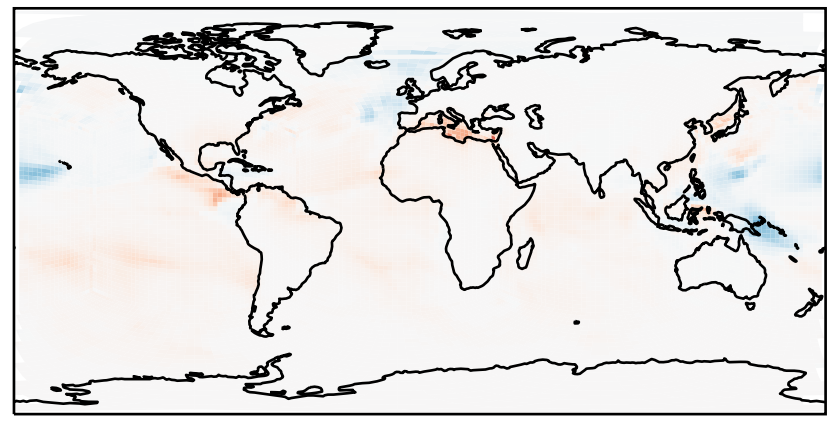
# SpeciesConc_ISALA

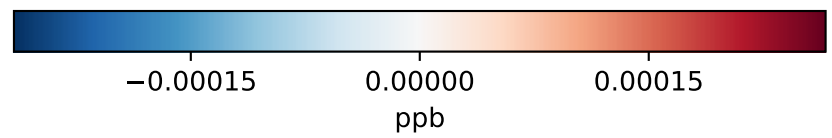
GC_12.5.0 - GC_12.4.0 (Ref)
4x5



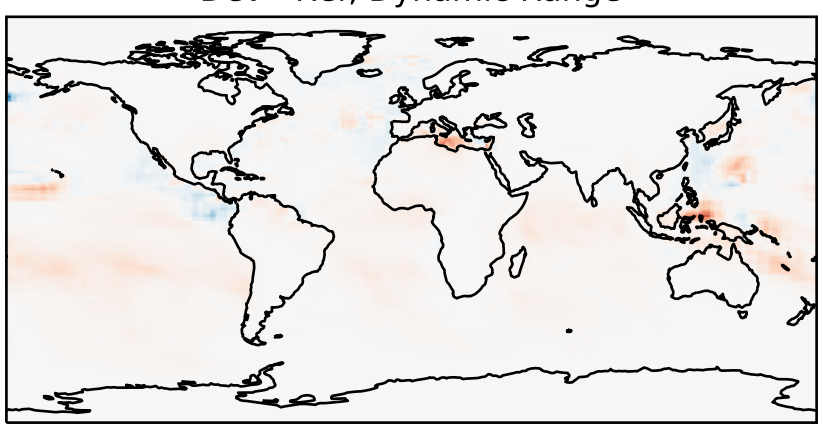


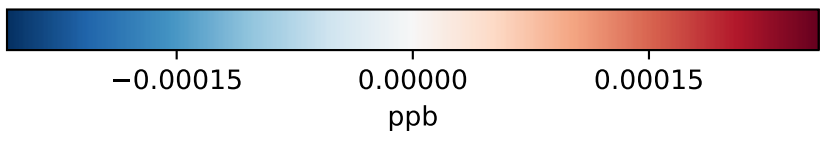

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



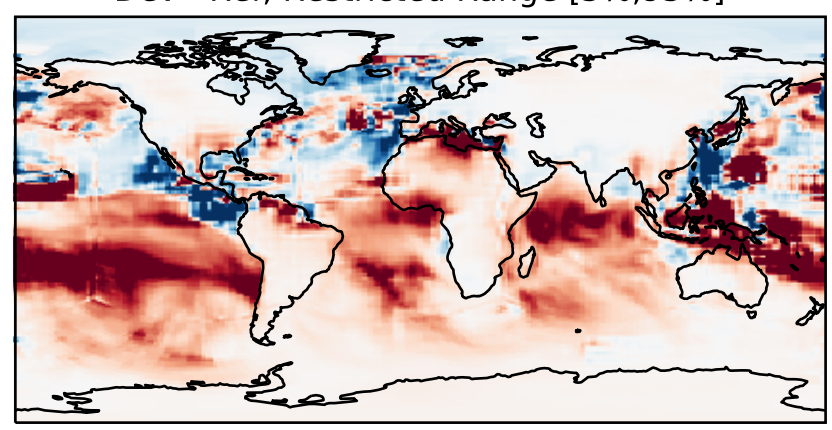


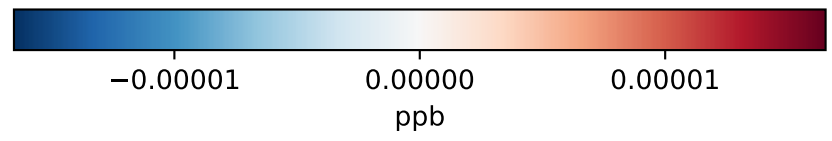

Difference (1x1.25)
Dev - Ref, Dynamic Range



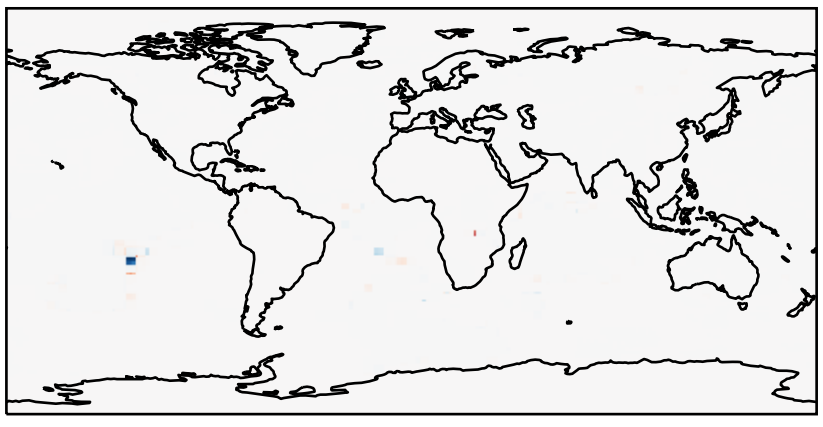


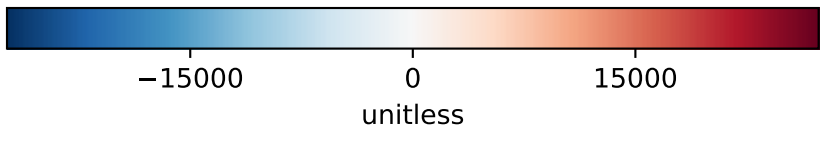

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



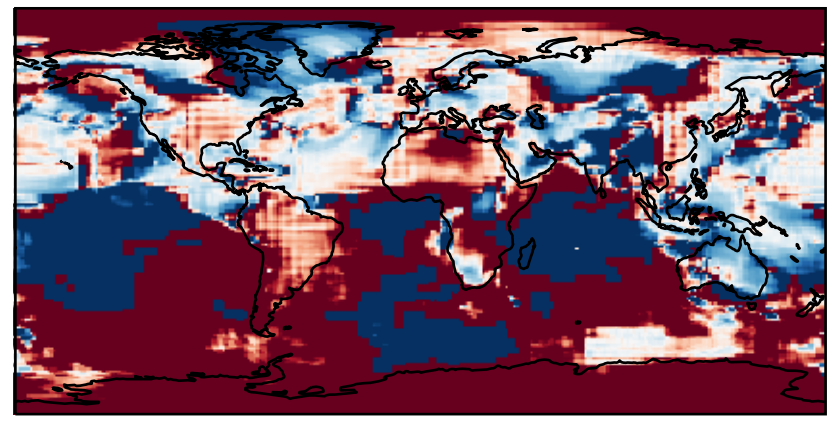


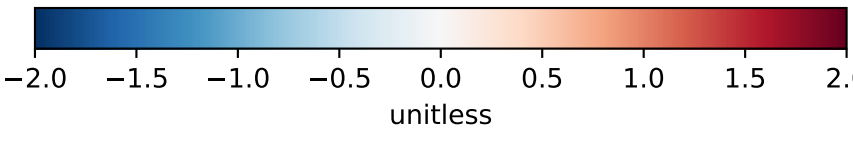

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range





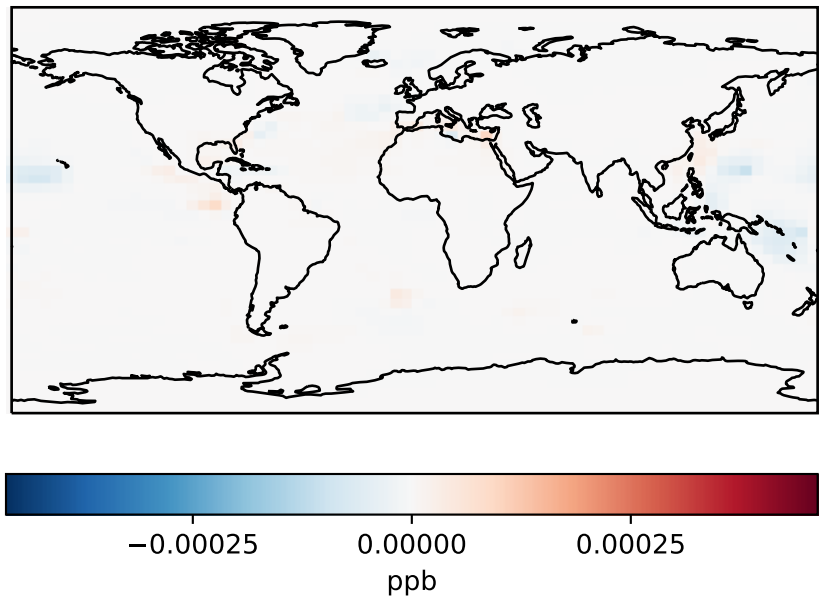

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



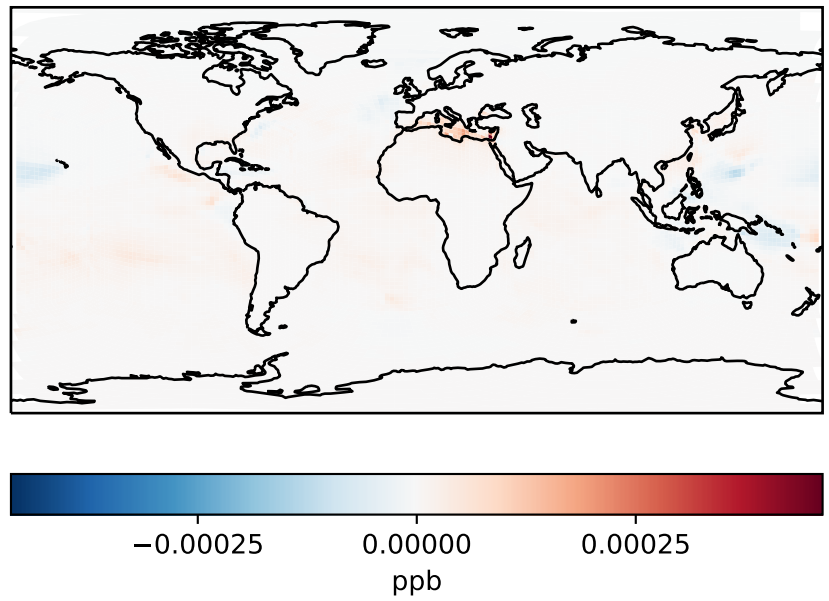


# SpeciesConc_ISALC

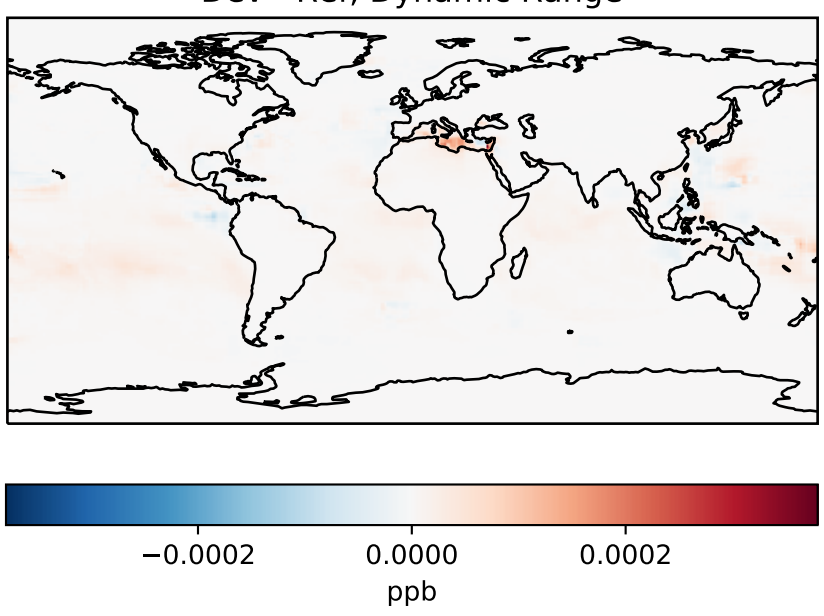
GC_12.5.0 - GC_12.4.0 (Ref)
4x5



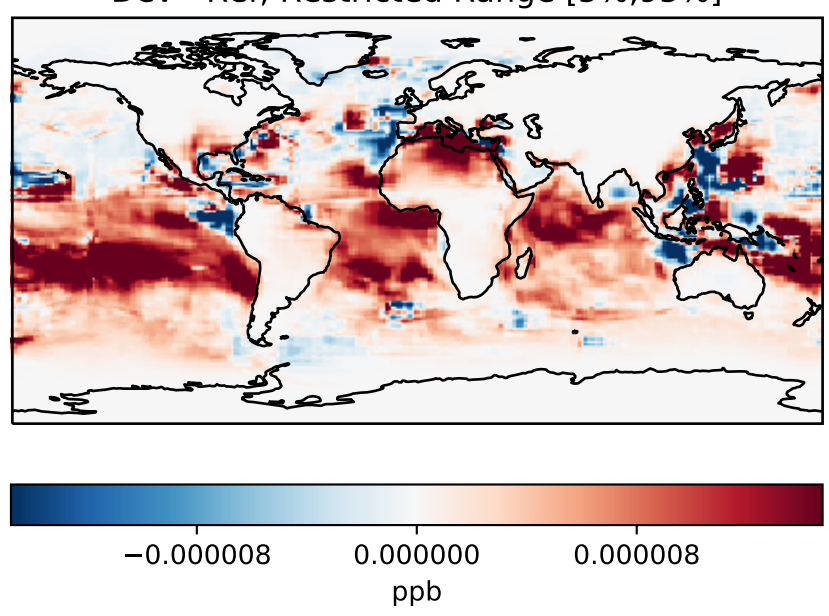

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



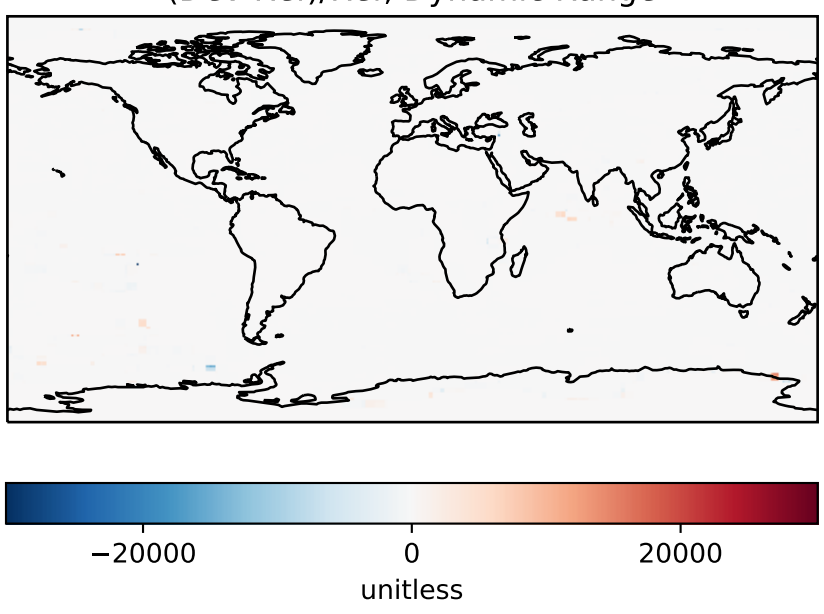

Difference (1x1.25)
Dev - Ref, Dynamic Range



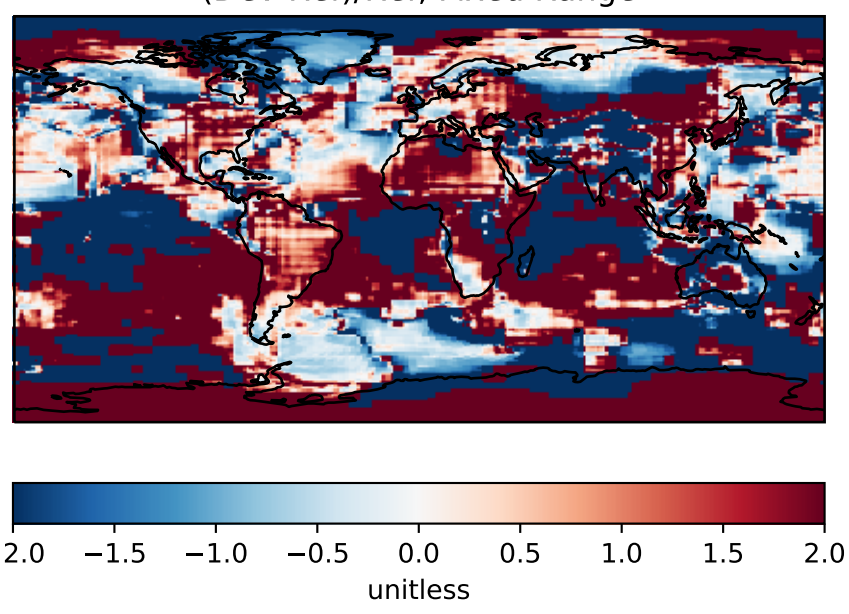

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]




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

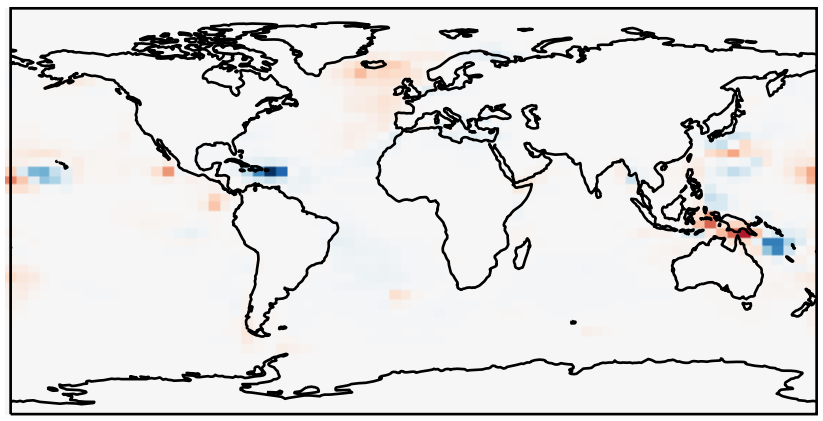


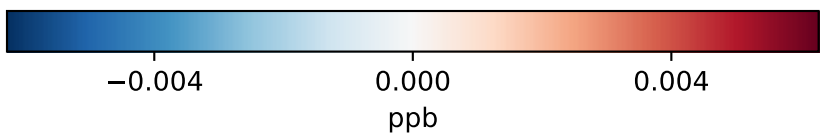

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



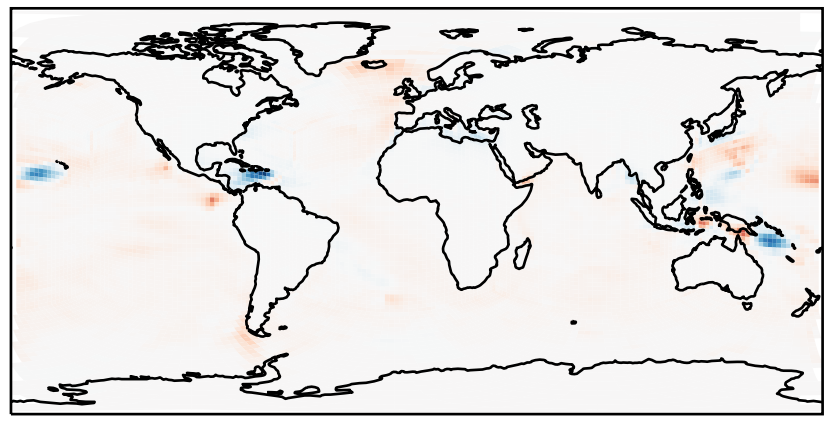
# SpeciesConc_NITs

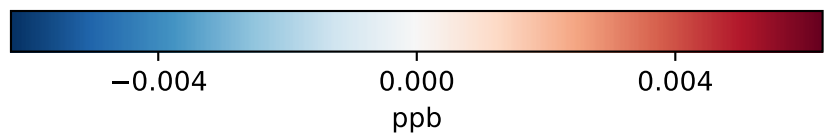
GC_12.5.0 - GC_12.4.0 (Ref)
4x5



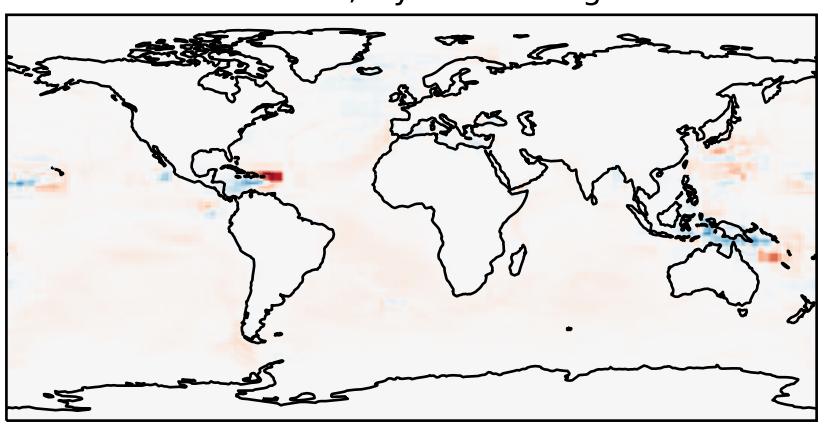


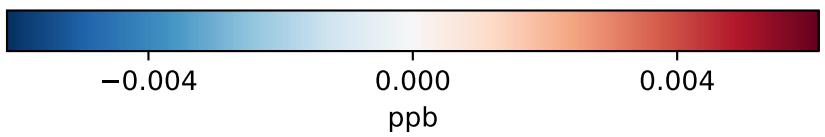

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



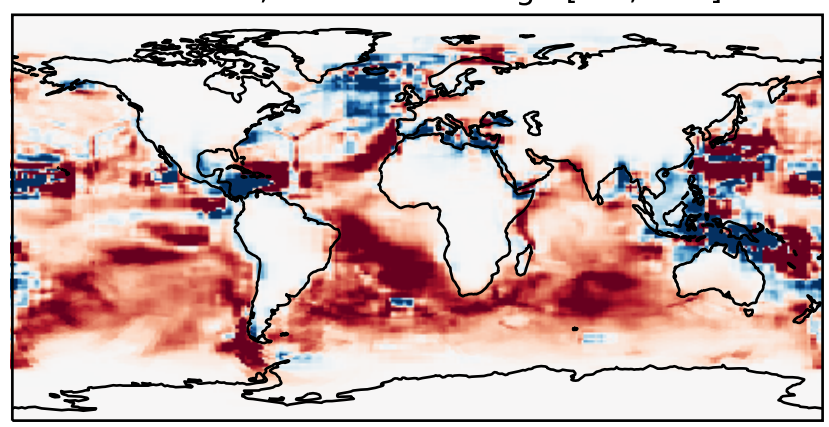


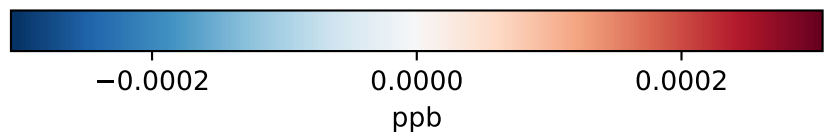

Difference (1x1.25)
Dev - Ref, Dynamic Range



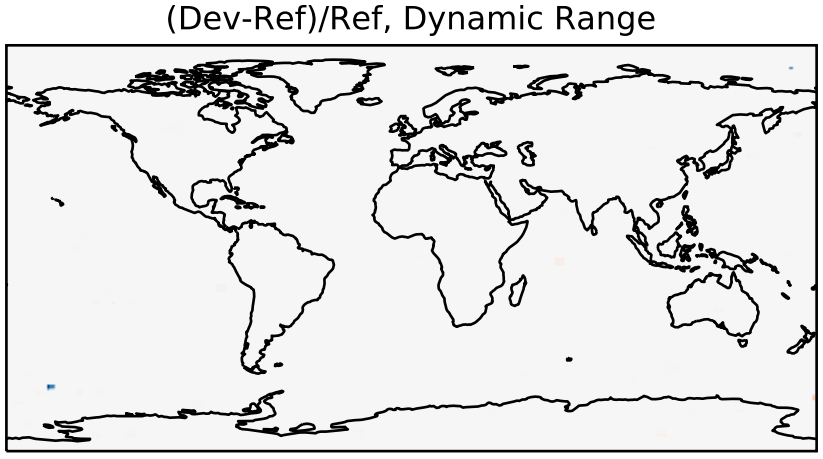


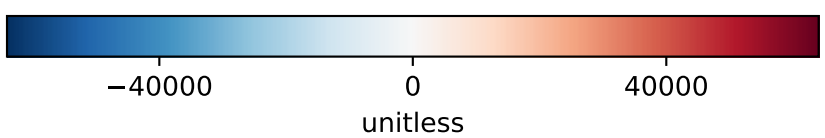

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



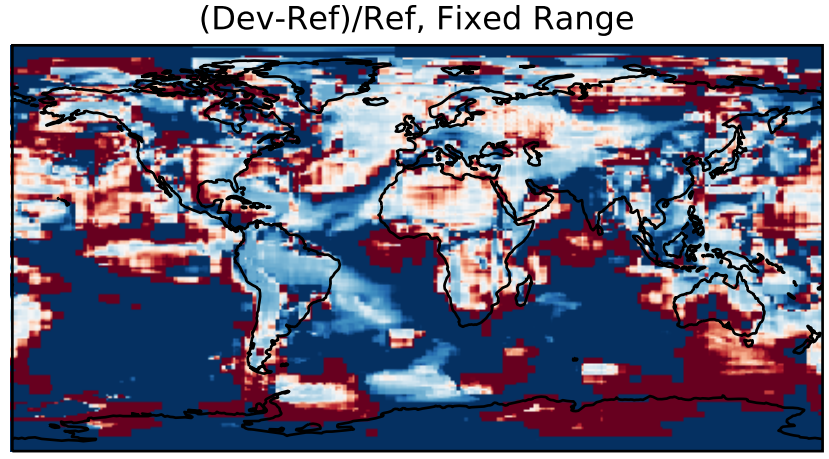


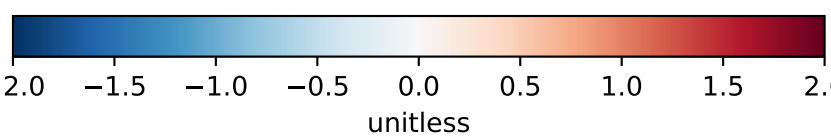

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Dynamic Range





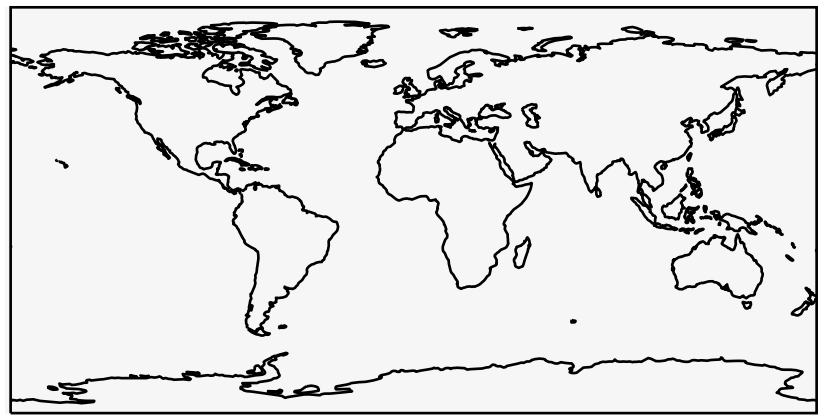

Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range





# SpeciesConc_SALA

GC_12.5.0 - GC_12.4.0 (Ref)
4x5



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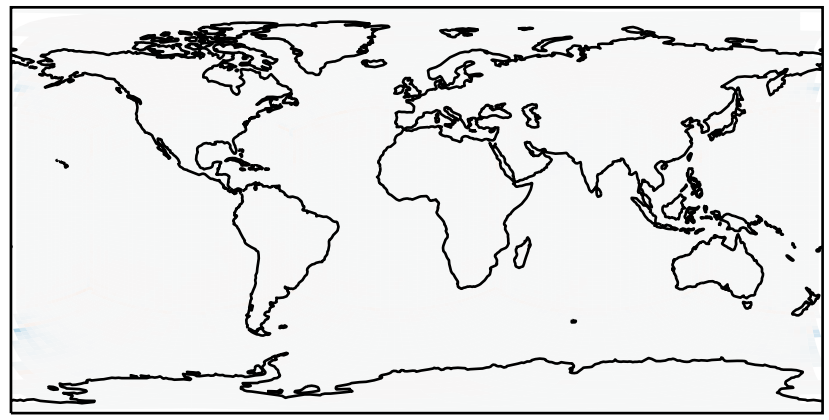
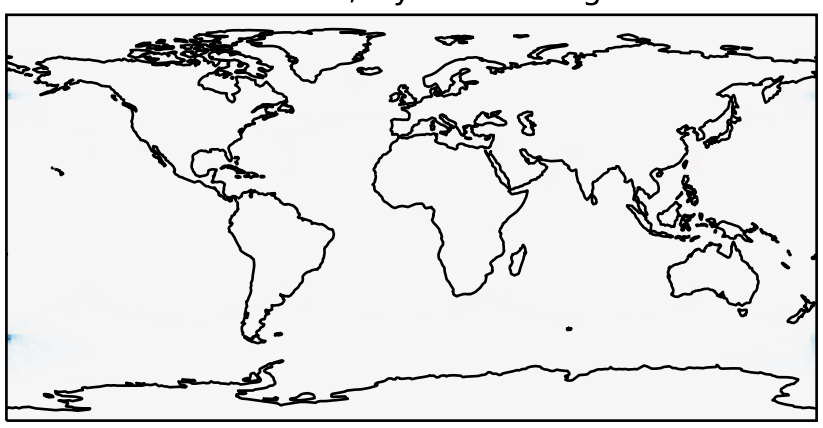
ppb

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



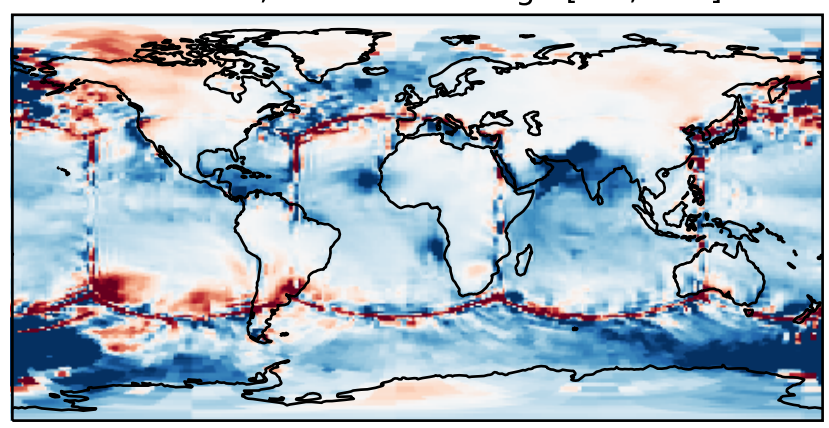
ppb

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



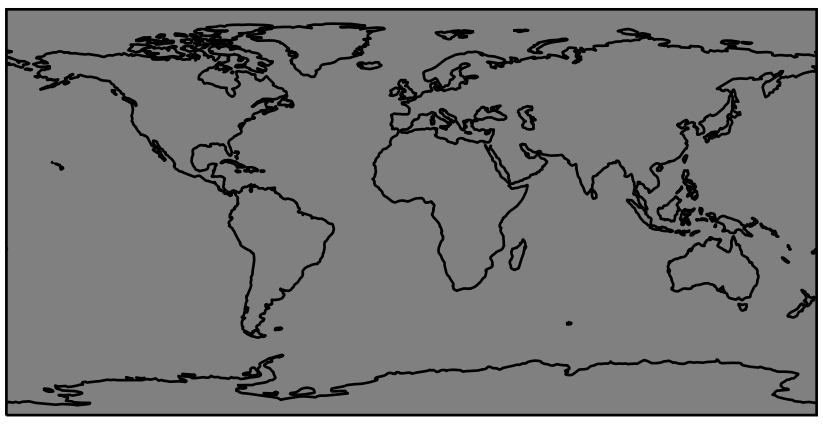
ppb

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



ppb

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



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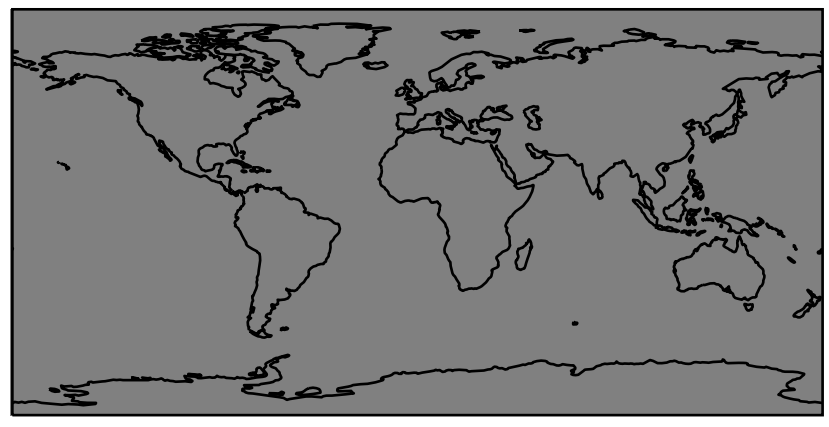
unitless

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



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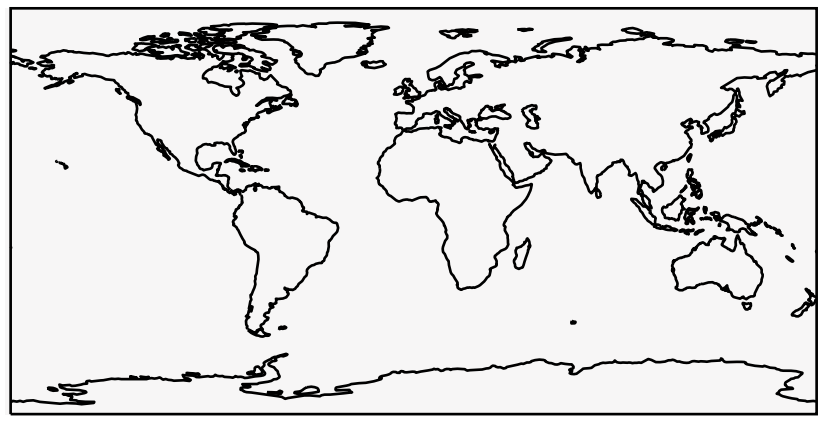
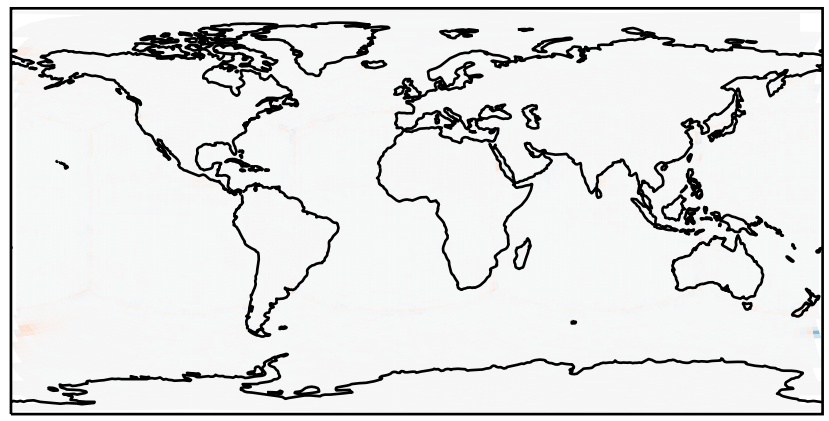
# SpeciesConc_SALC

GC_12.5.0 - GC_12.4.0 (Ref)
4x5



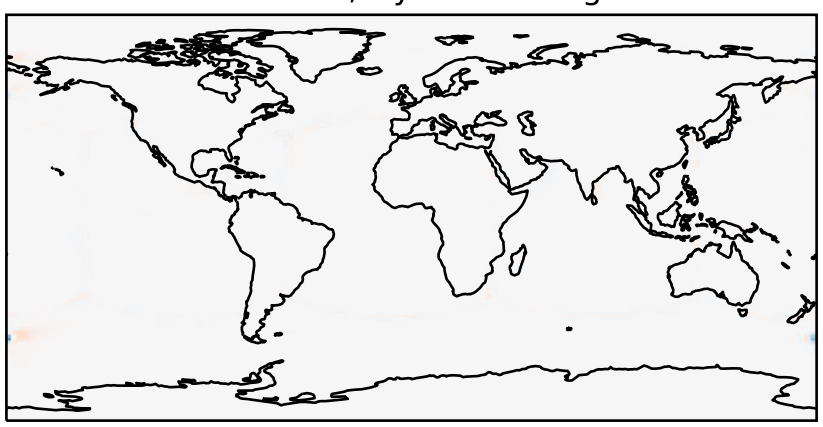
Zero throughout domain
ppb

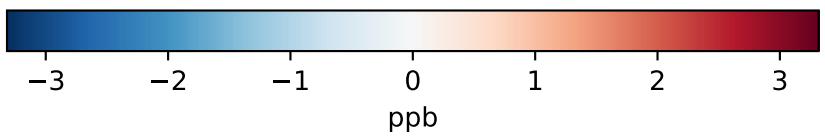
GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



ppb

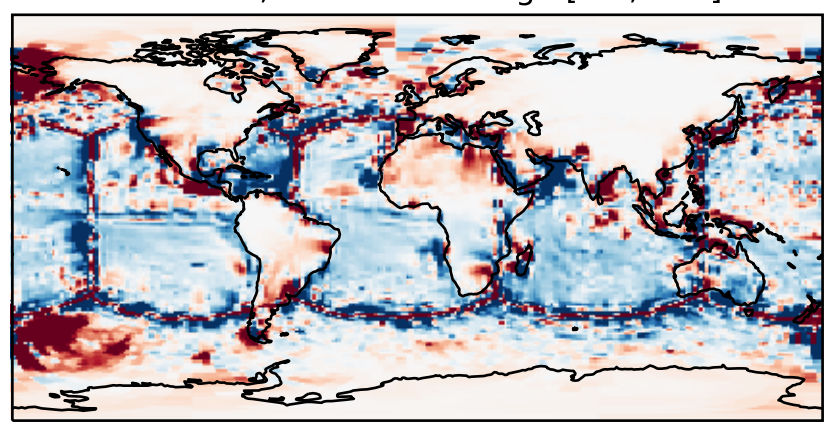
Difference (1x1.25)
Dev - Ref, Dynamic Range

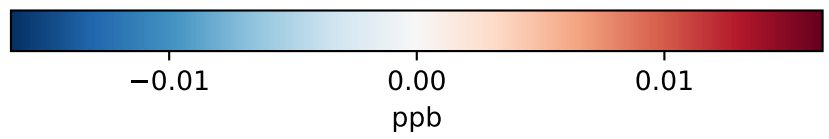





ppb

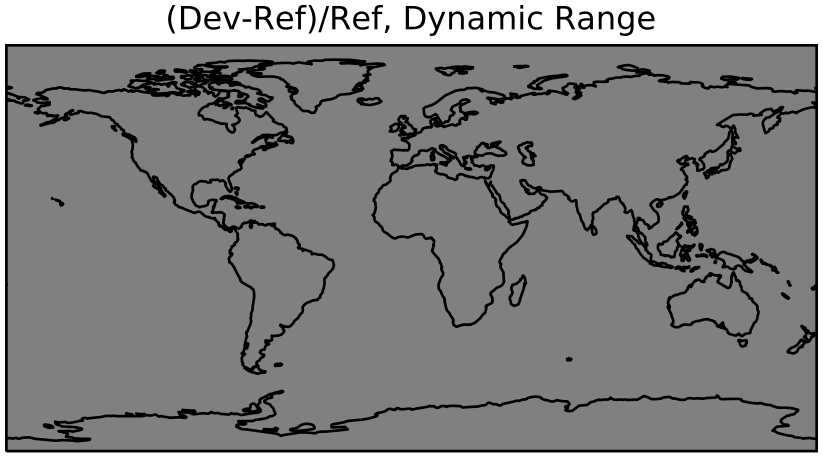
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]






ppb

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



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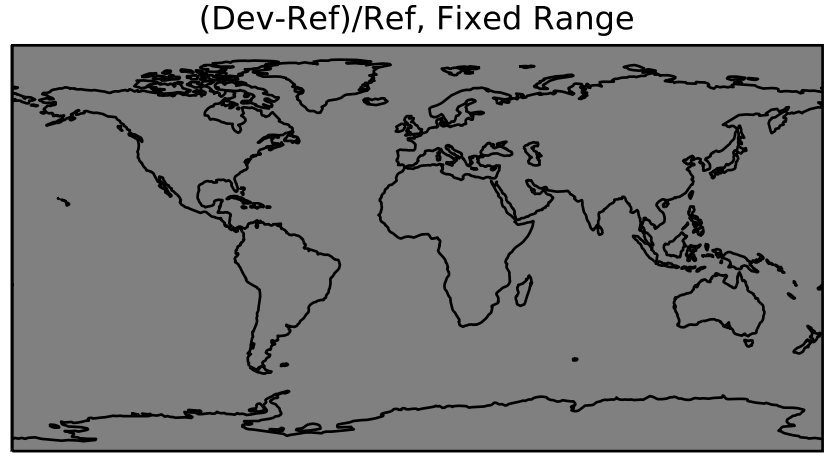
Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range



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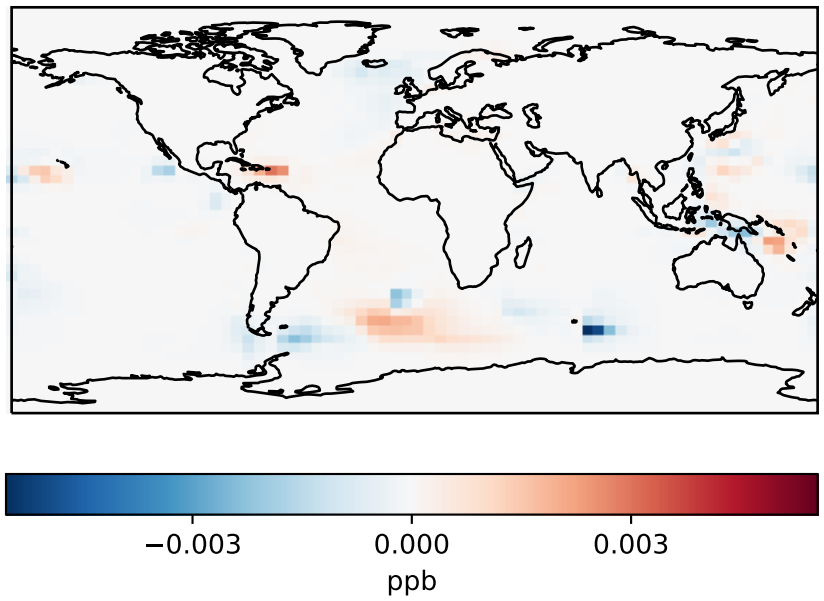
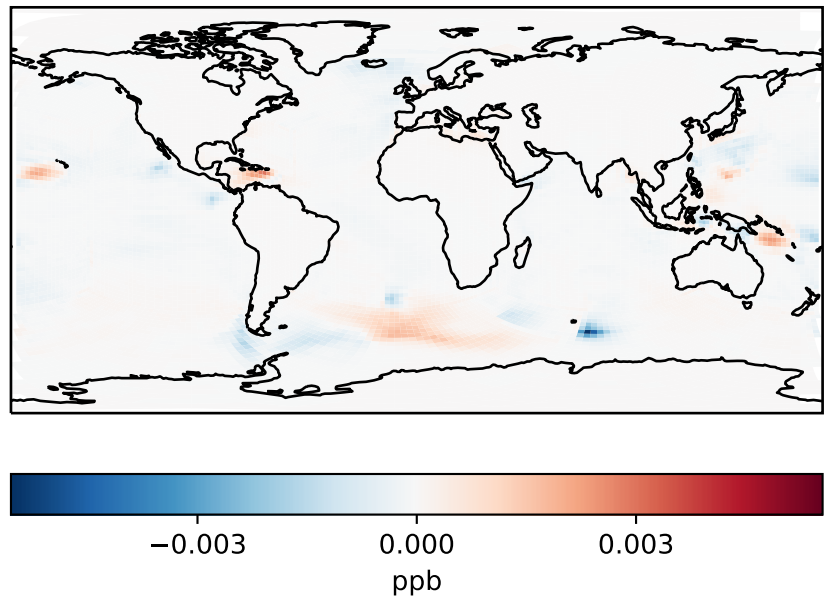
# SpeciesConc_SO4s

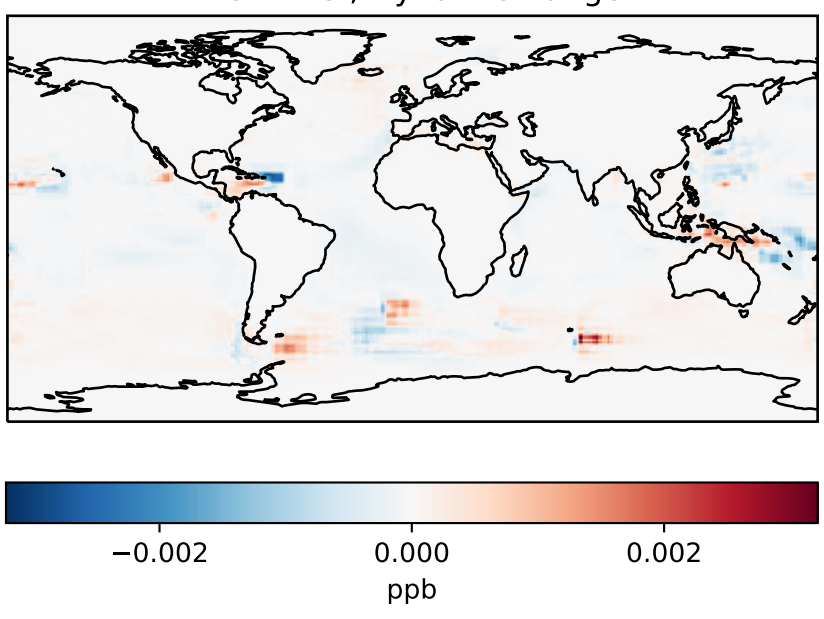
GC_12.5.0 - GC_12.4.0 (Ref)
4x5



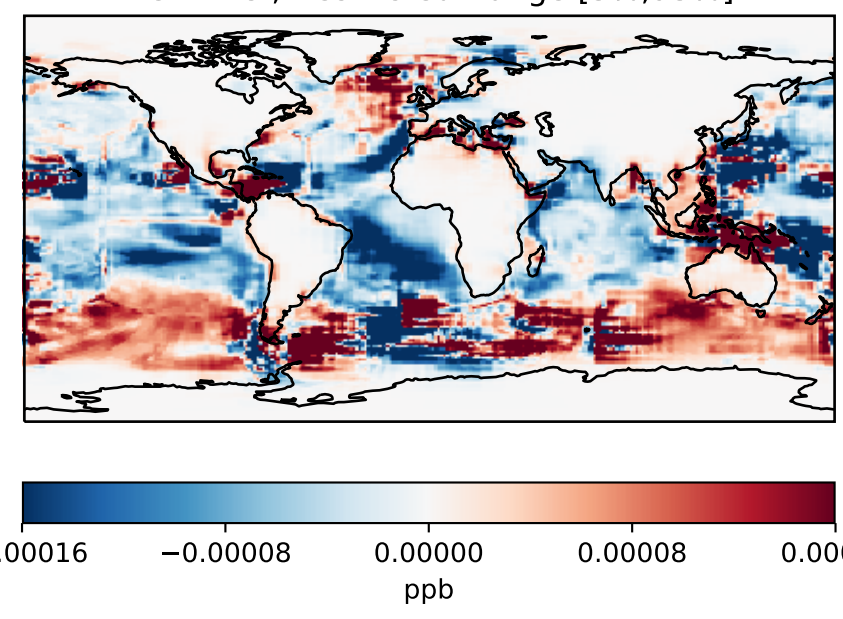

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



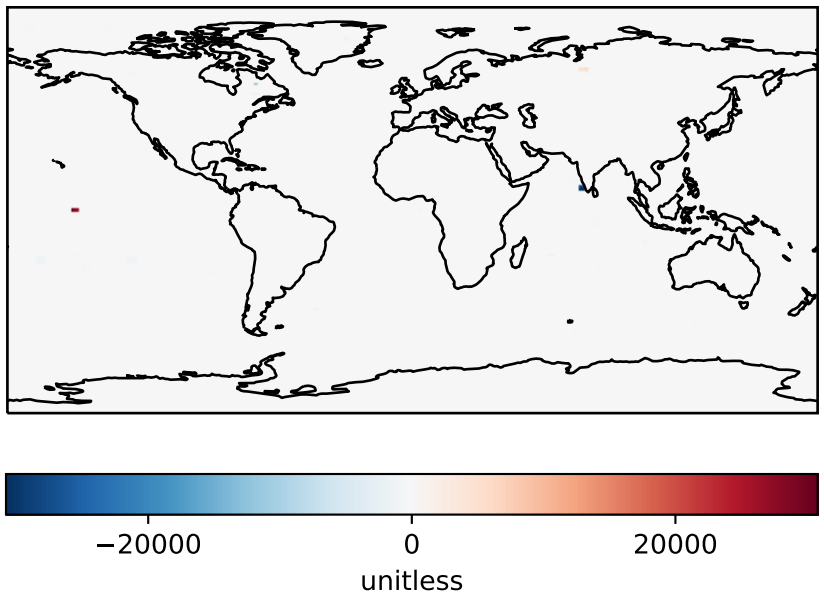

Difference (1x1.25)
Dev - Ref, Dynamic Range



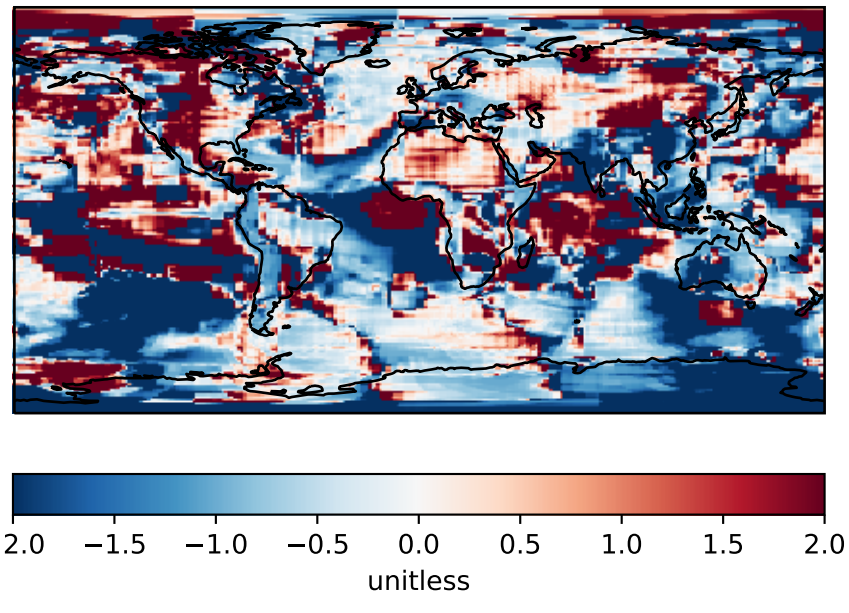

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]




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

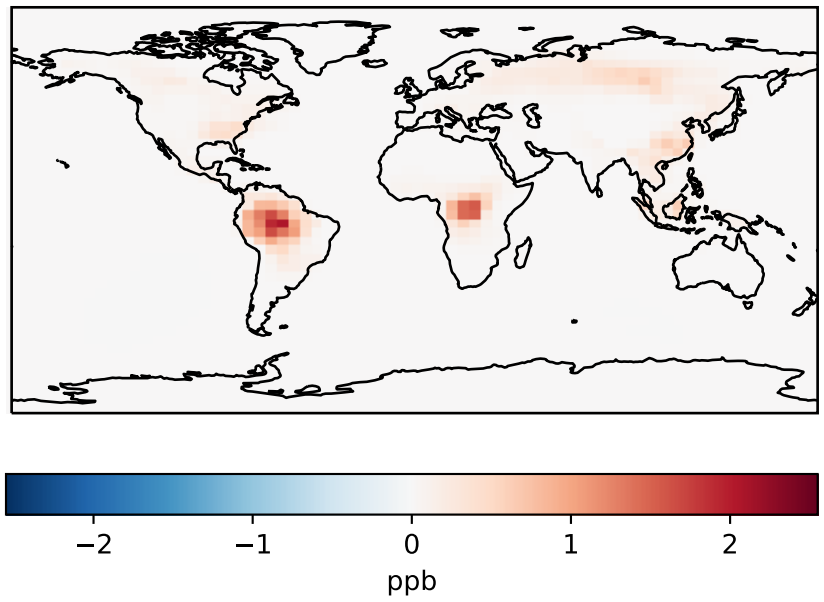



Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

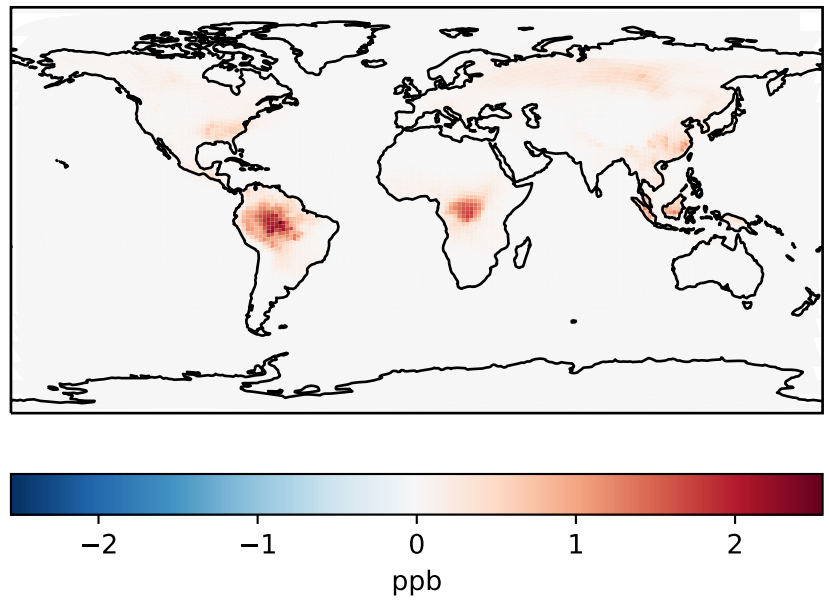


# SpeciesConc_Complex_SOA

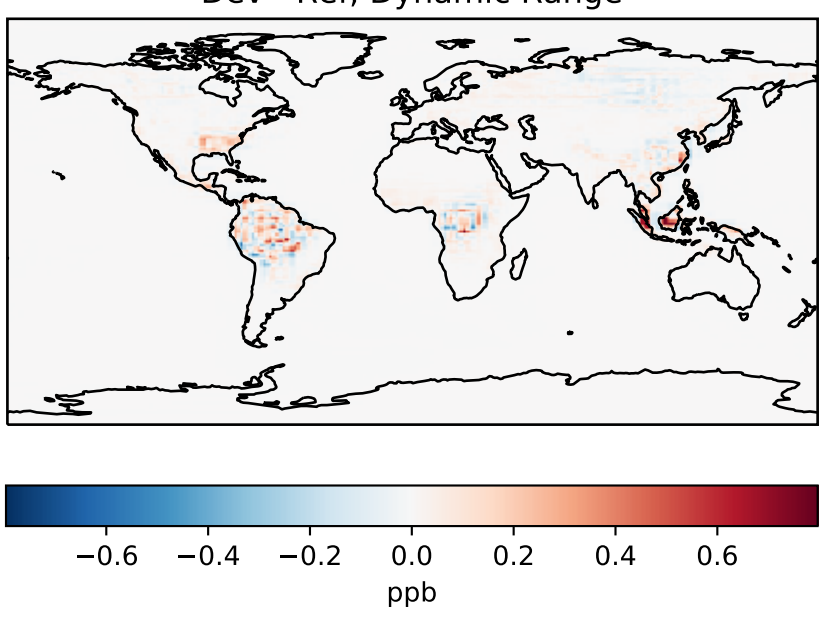
GC_12.5.0 - GC_12.4.0 (Ref)
4x5



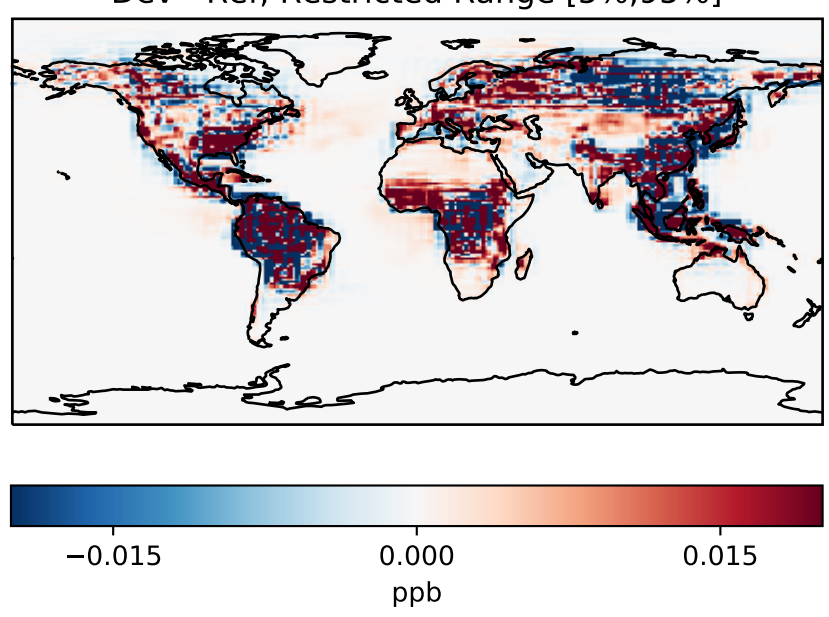

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



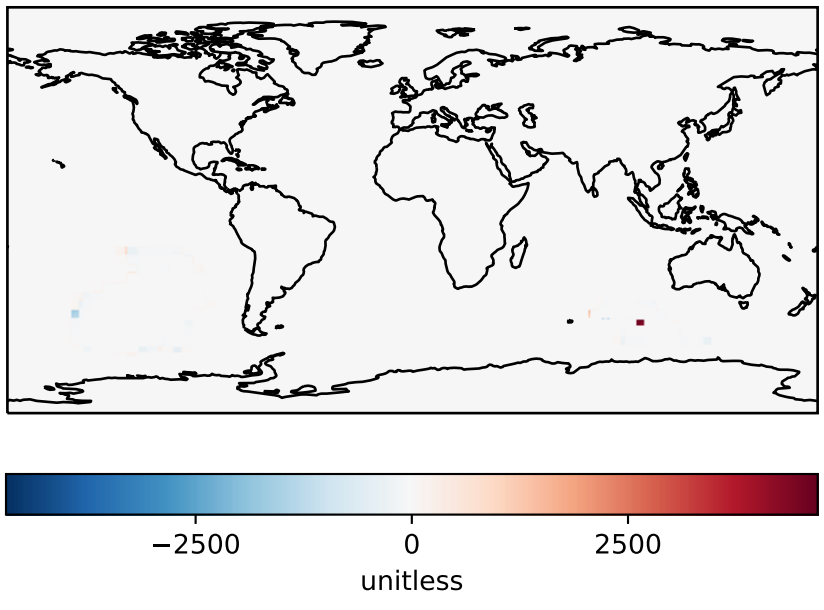

Difference (1x1.25)
Dev - Ref, Dynamic Range



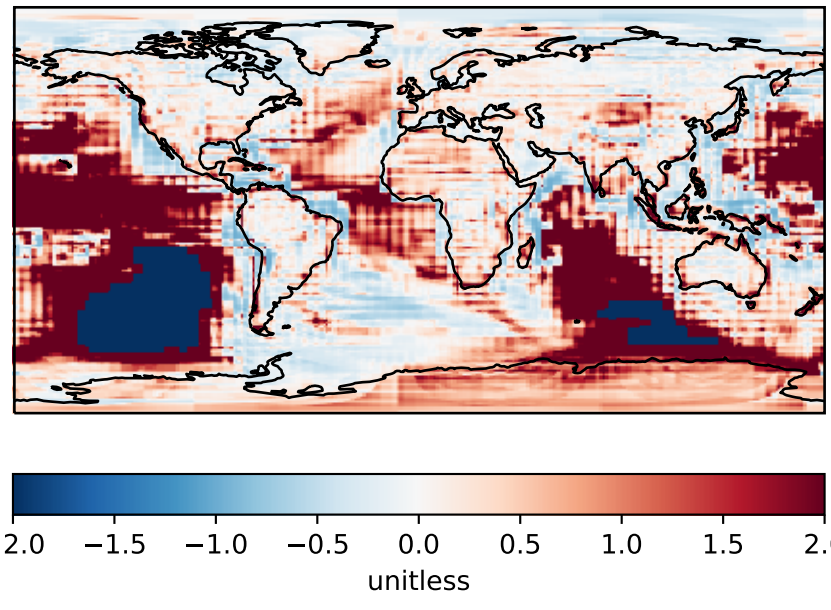

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]




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

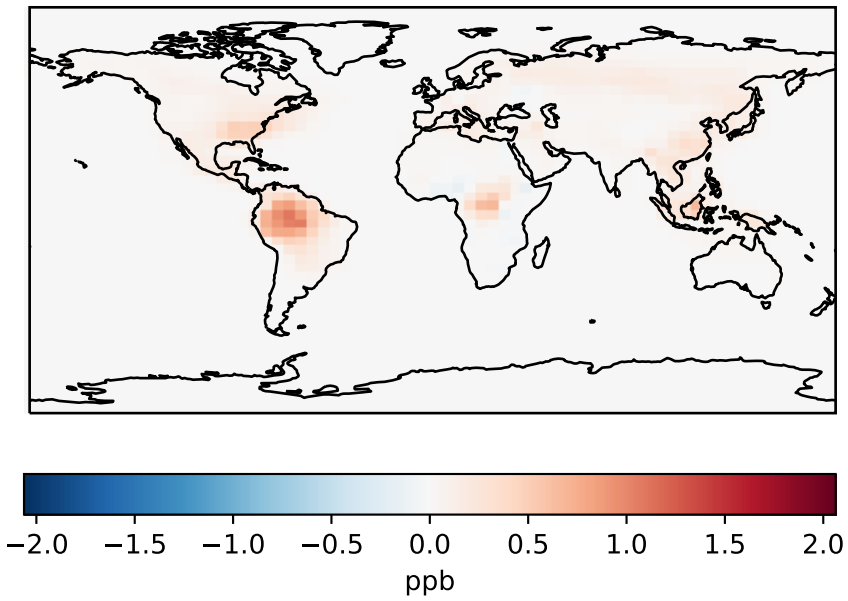



Fractional Difference (1x1.25)
(Dev-Ref)/Ref, Fixed Range

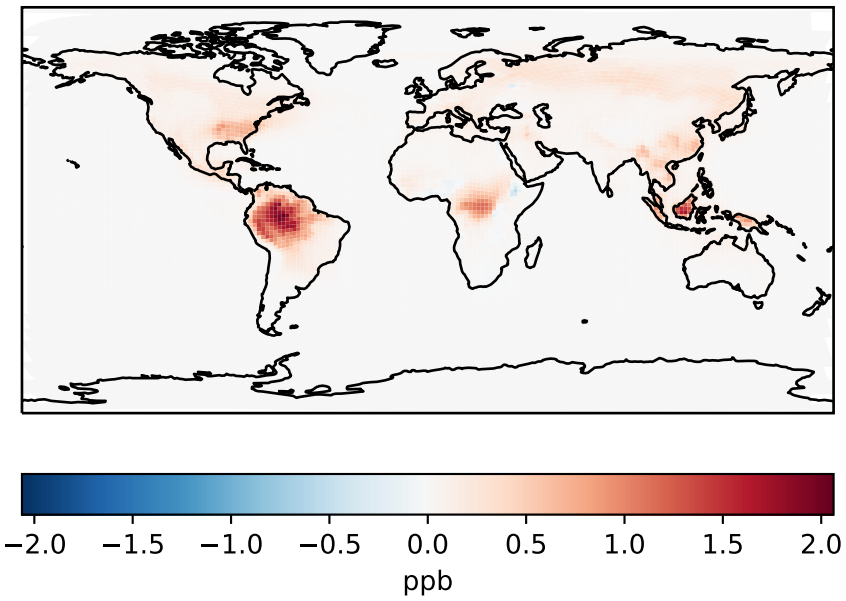


# SpeciesConc_Simple_SOA

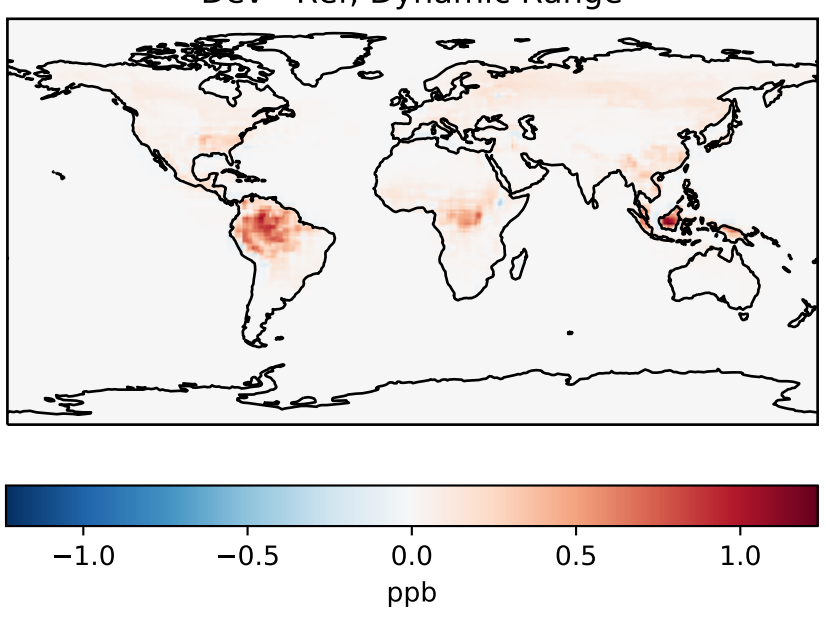
GC_12.5.0 - GC_12.4.0 (Ref)
4x5



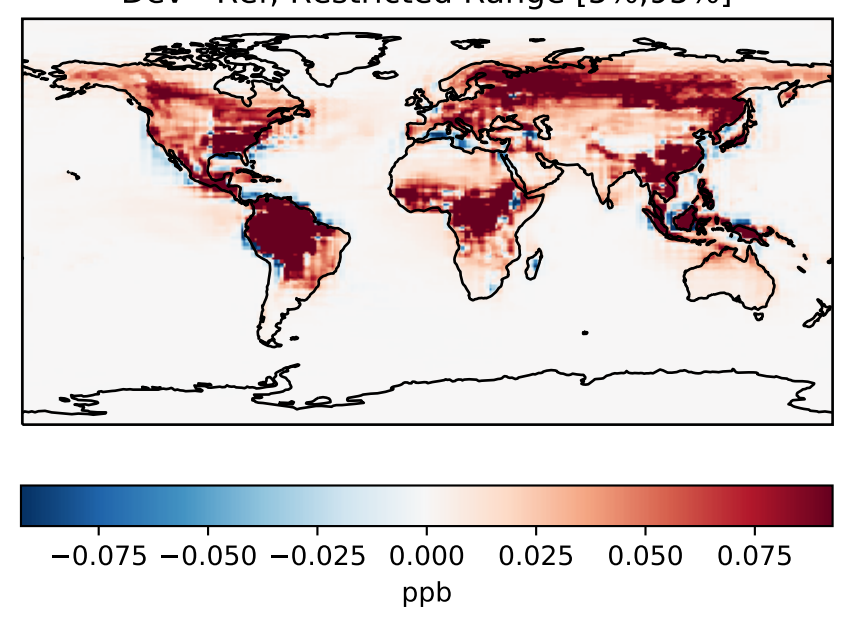

GCHP_12.5.0 - GCHP_12.4.0 (Dev)
c48



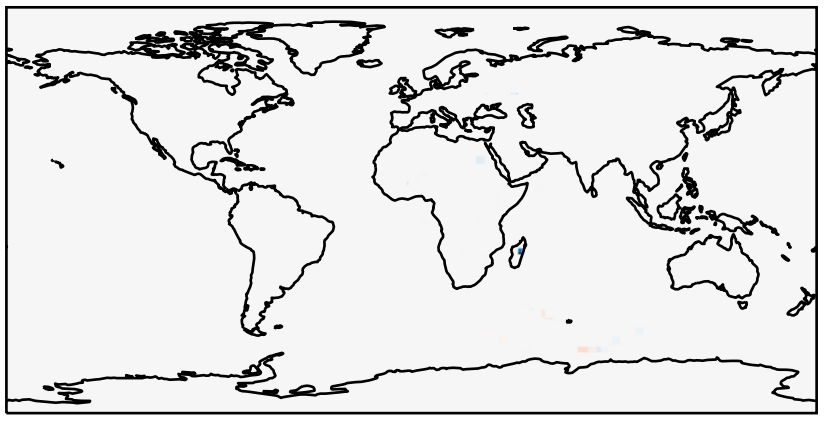

Difference (1x1.25)
Dev - Ref, Dynamic Range

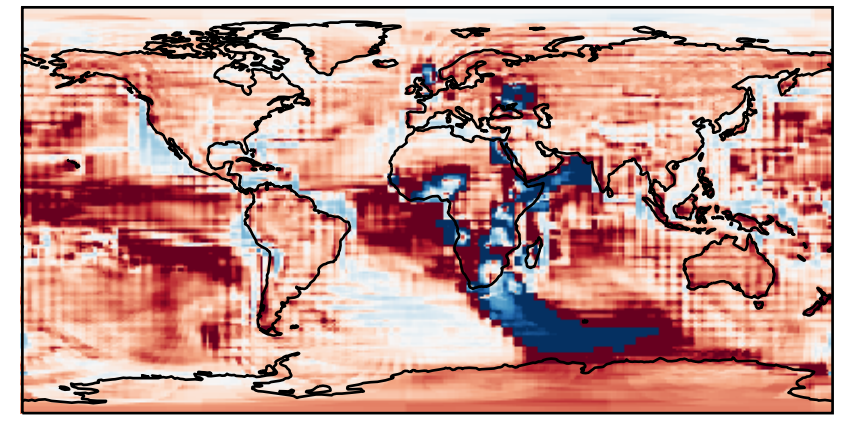



Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]




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




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