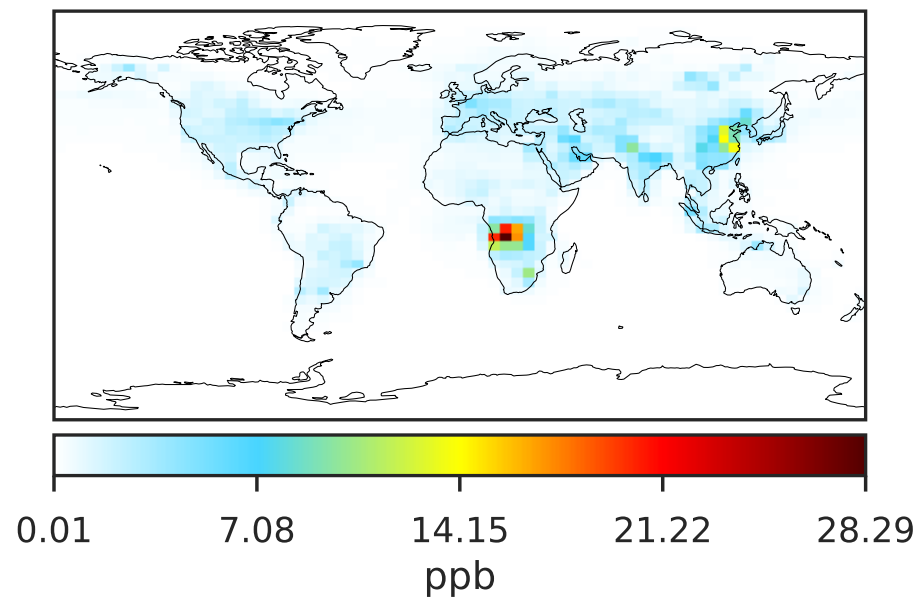# SpeciesConcVV_NOy
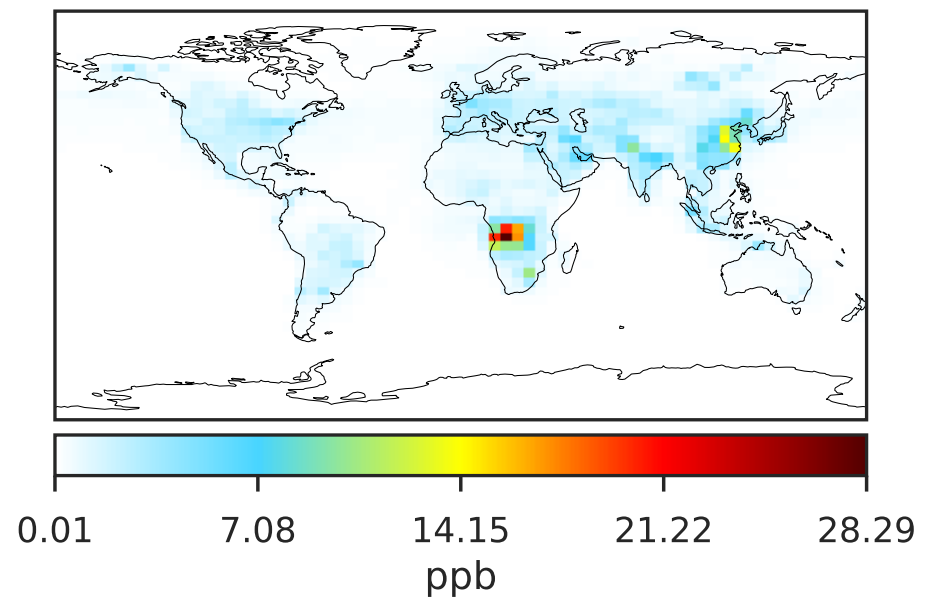

gcc-4x5-1Mon-14.3.0-alpha.6 (Ref)
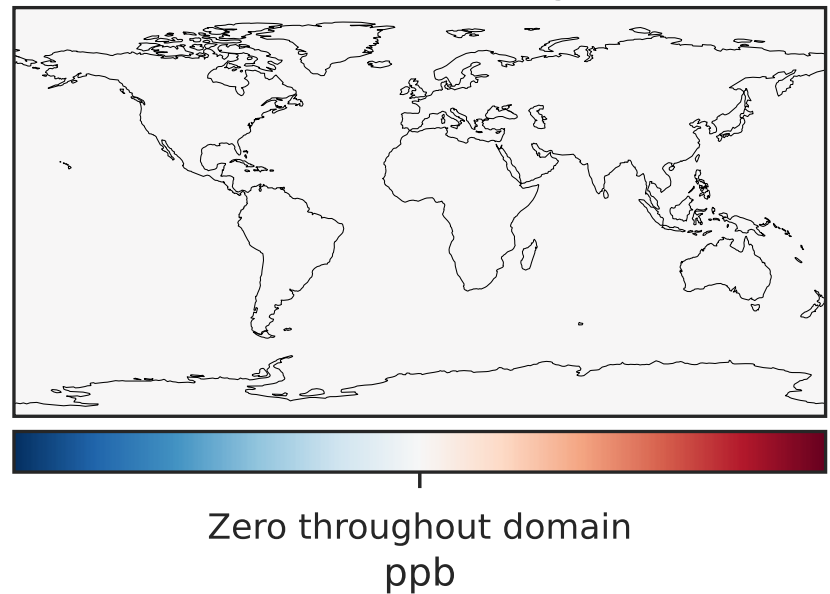4.0x5.0

gcc-4x5-1Mon-14.3.0-alpha.7 (Dev)
4.0x5.0

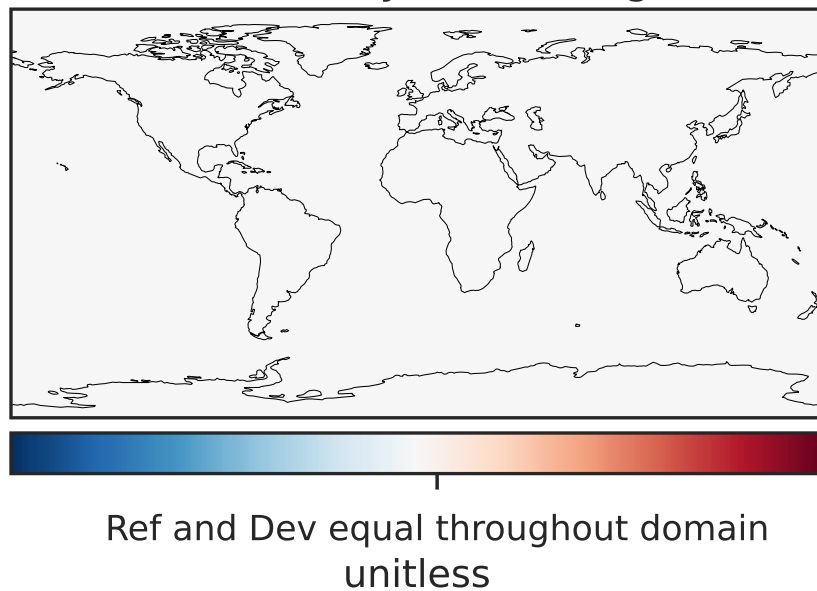0.01   7.08   14.15   21.22   28.29
ppb

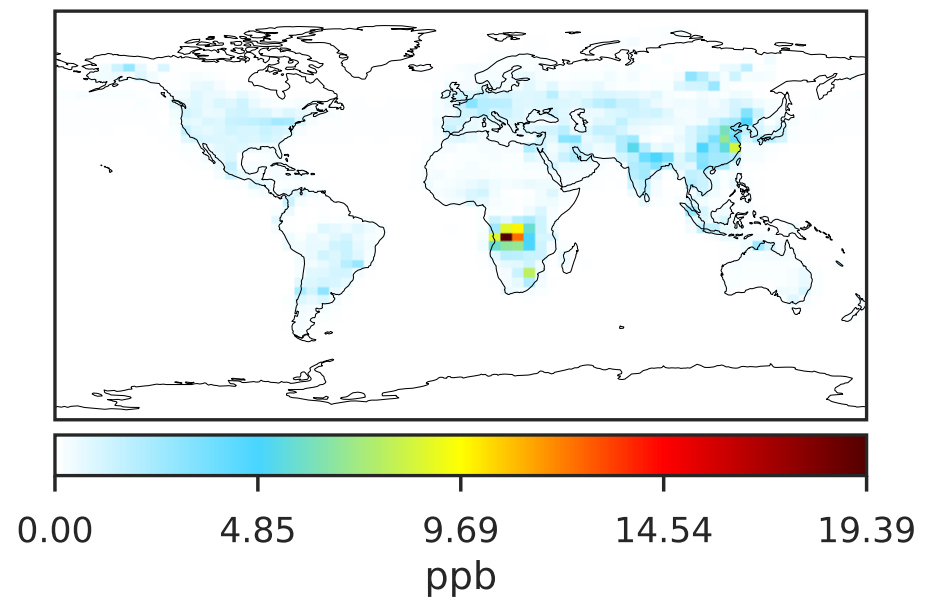0.01   7.08   14.15   21.22   28.29
ppb

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
ppb

Zero throughout domain
ppb

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless
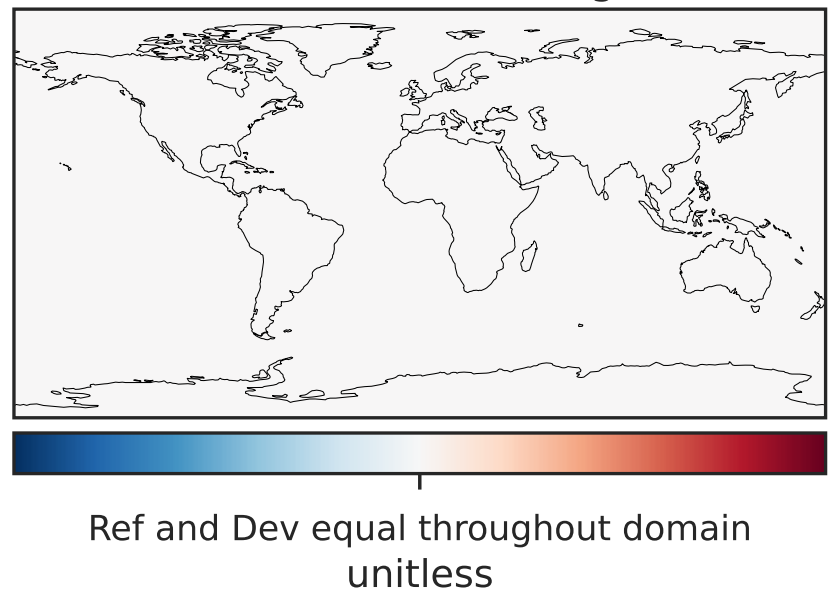
SpeciesConcVV_NOx

gcc-4x5-1Mon-14.3.0-alpha.6 (Ref)
4.0x5.0

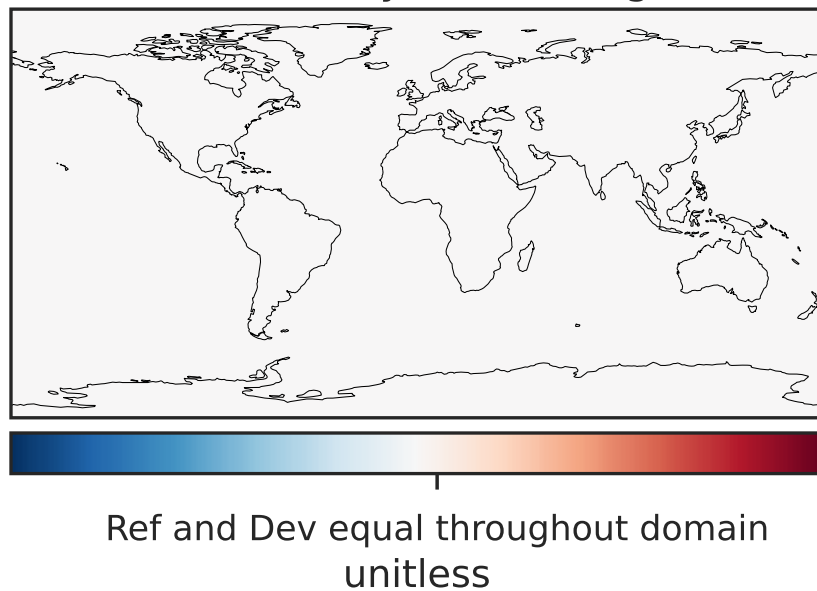0.00   4.85   9.69   14.54   19.39
ppb

gcc-4x5-1Mon-14.3.0-alpha.7 (Dev)
4.0x5.0

0.00   4.85   9.69   14.54   19.39
ppb

Difference
Dev - Ref, Dynamic Range

Zero throughout domain
ppb

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

Zero throughout domain
ppb

Ratio
Dev/Ref, Dynamic Range

Ref and Dev equal throughout domain
unitless

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
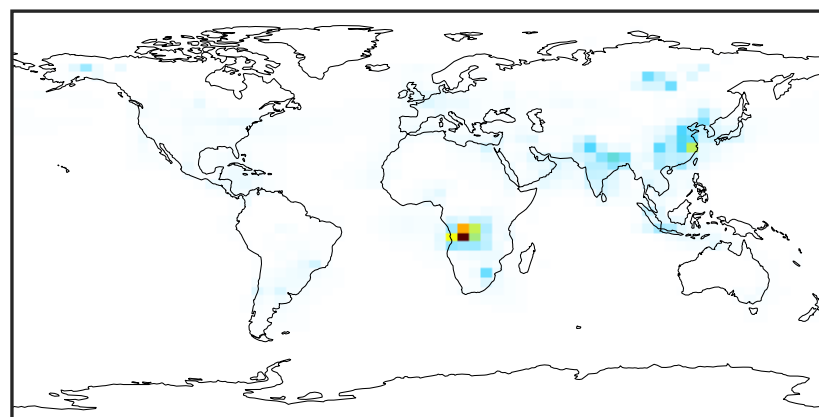unitless

SpeciesConcVV_HNO2

SpeciesConcVV_HNO3

gcc-4x5-1Mon-14.3.0-alpha.6 (Ref)
4.0x5.0

0.000   1.886   3.772   5.658   7.544
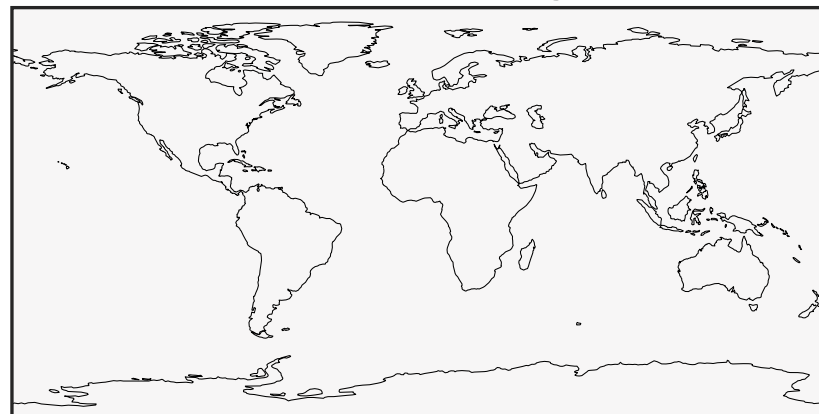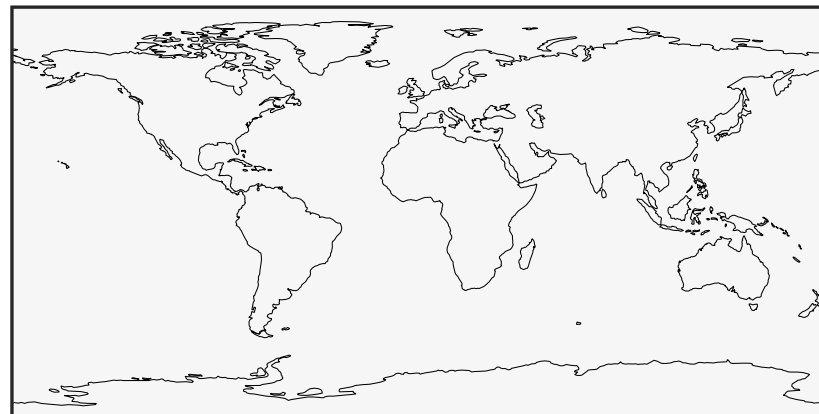ppb

gcc-4x5-1Mon-14.3.0-alpha.7 (Dev)
4.0x5.0

0.000   1.886   3.772   5.658   7.544
ppb

Difference
Dev - Ref, Dynamic Range

Zero throughout domain
ppb

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

Zero throughout domain
ppb

Ratio
Dev/Ref, Dynamic Range

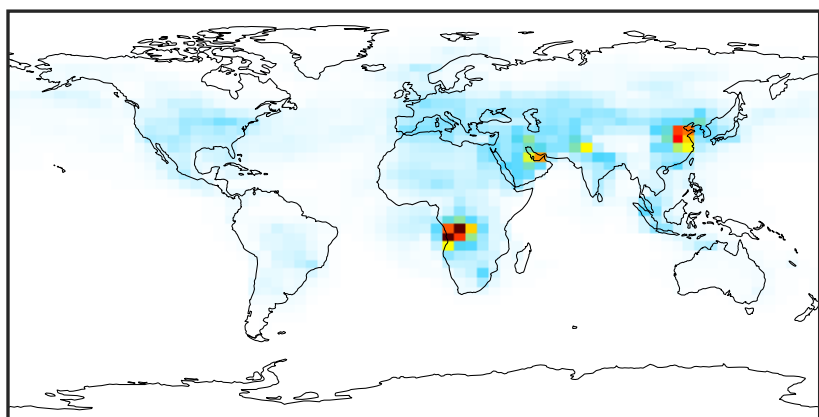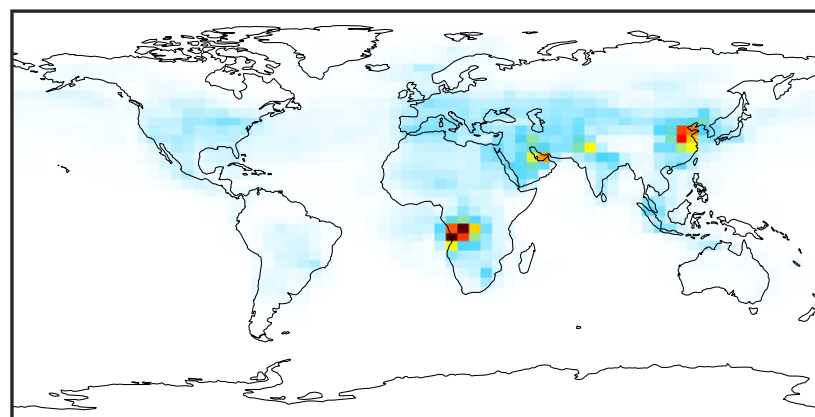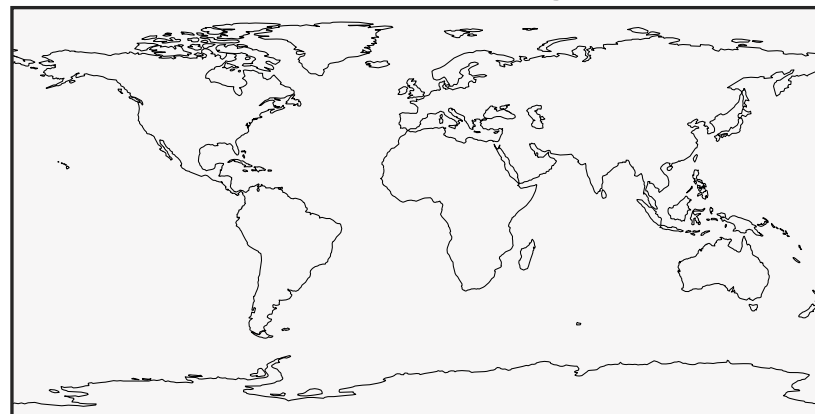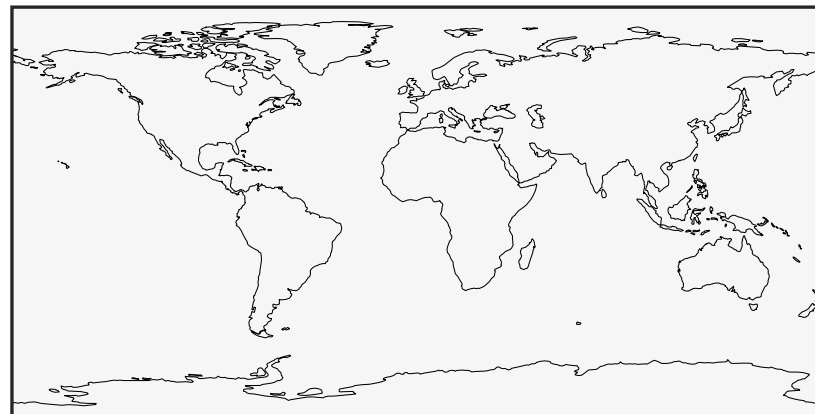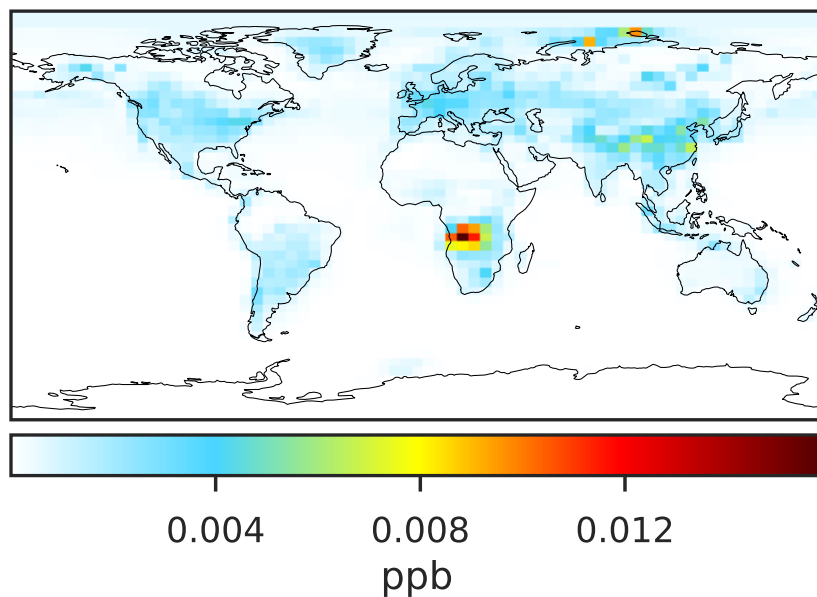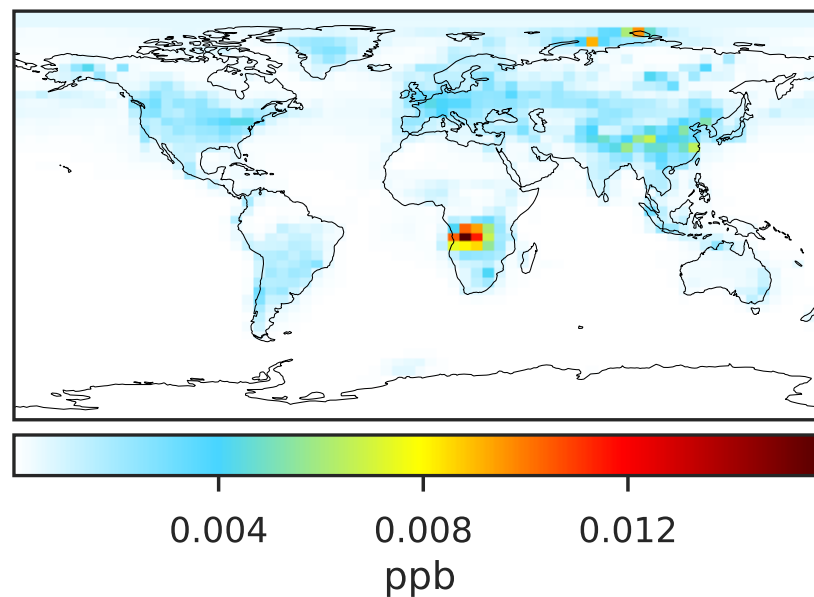Ref and Dev equal throughout domain
unitless

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
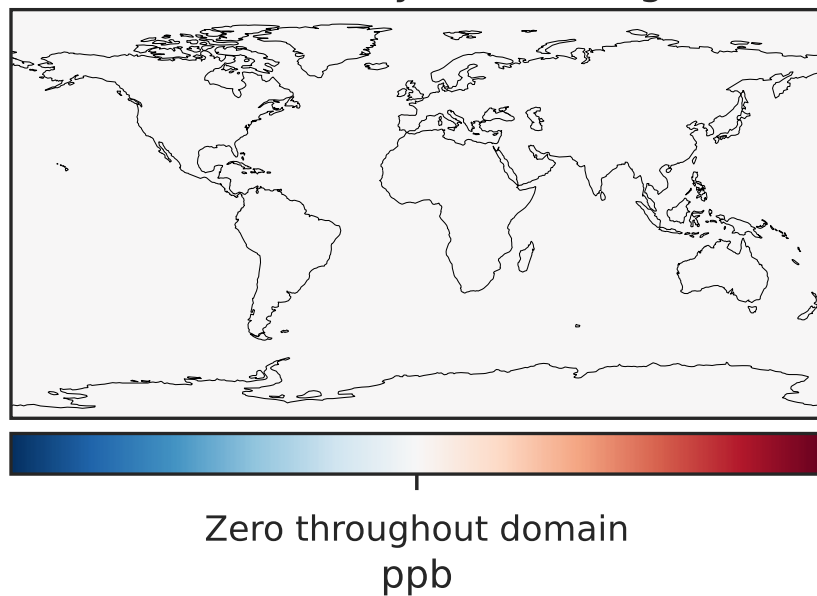unitless

SpeciesConcVV_HNO4
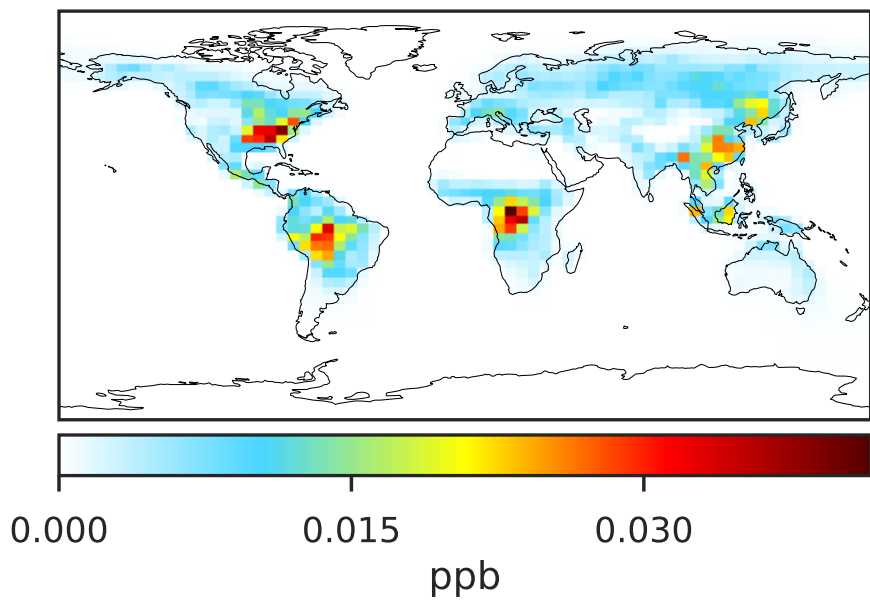
SpeciesConcVV_MPAN
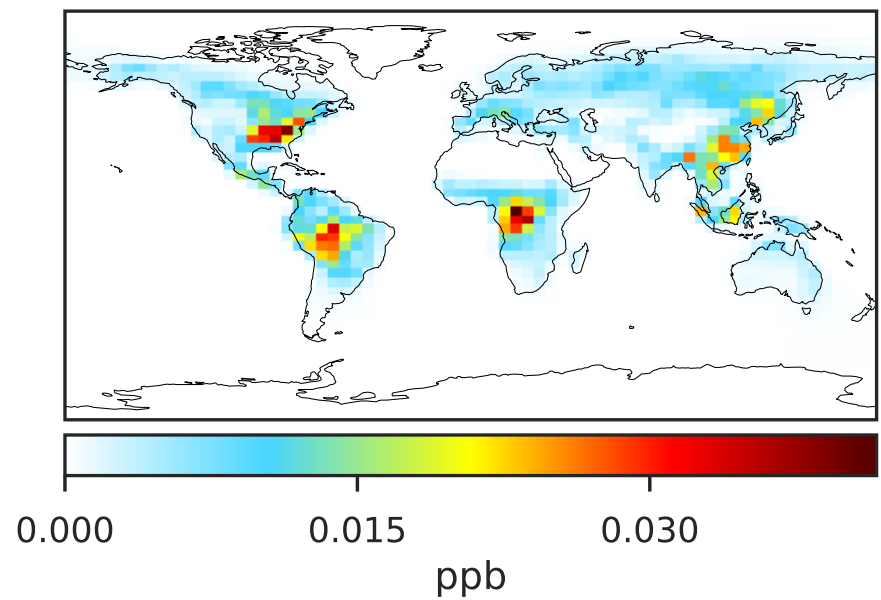
SpeciesConcVV_NIT

gcc-4x5-1Mon-14.3.0-alpha.6 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.3.0-alpha.7 (Dev)
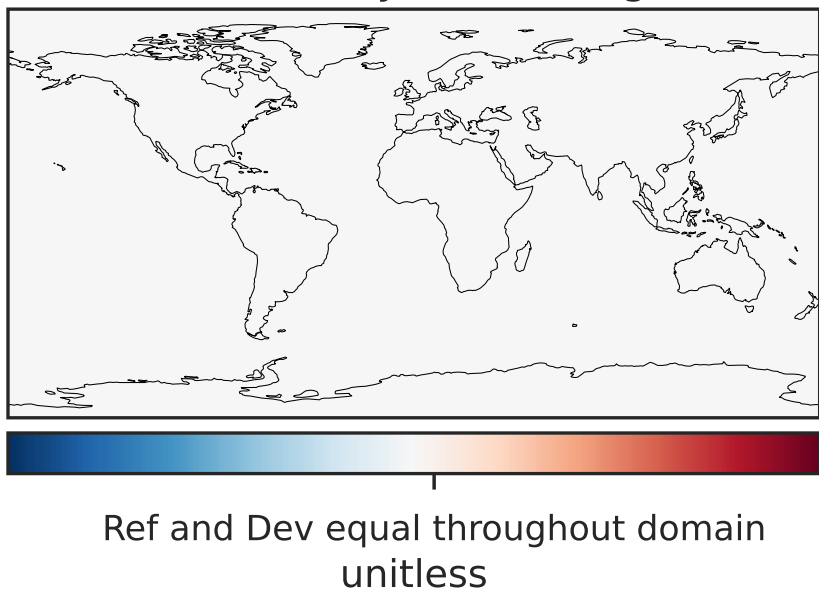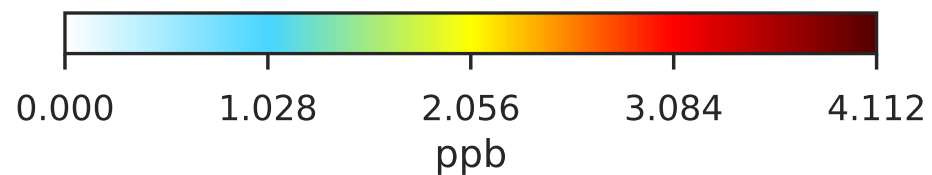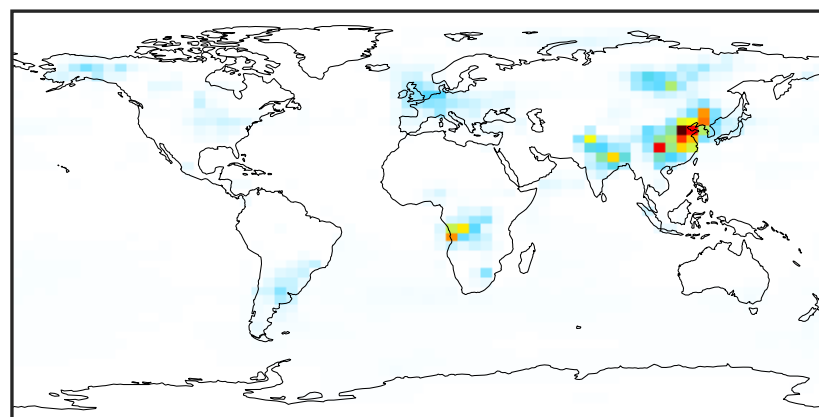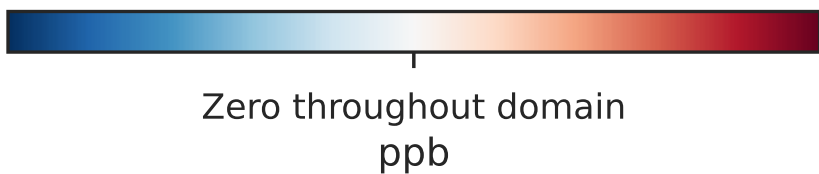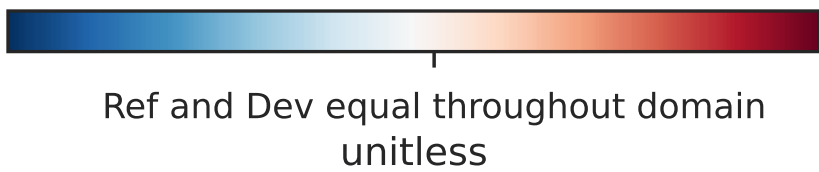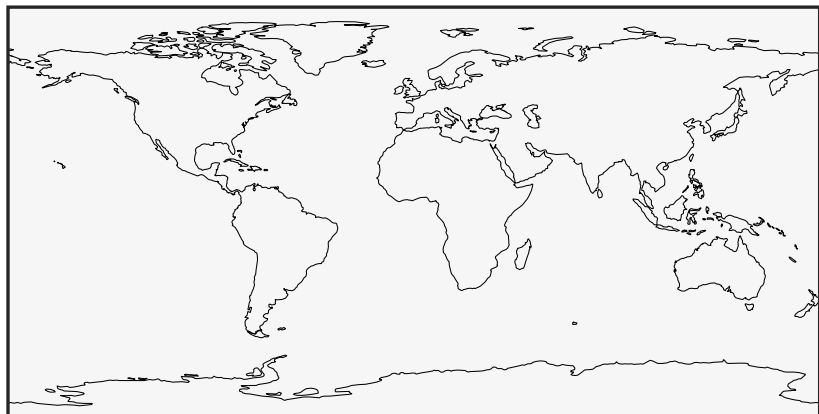4.0x5.0

0.000   1.028   2.056   3.084   4.112
ppb

0.000   1.028   2.056   3.084   4.112
ppb

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
ppb

Zero throughout domain
ppb

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

SpeciesConcVV_NO

SpeciesConcVV_NO2

SpeciesConcVV_NO3

gcc-4x5-1Mon-14.3.0-alpha.6 (Ref)
4.0x5.0
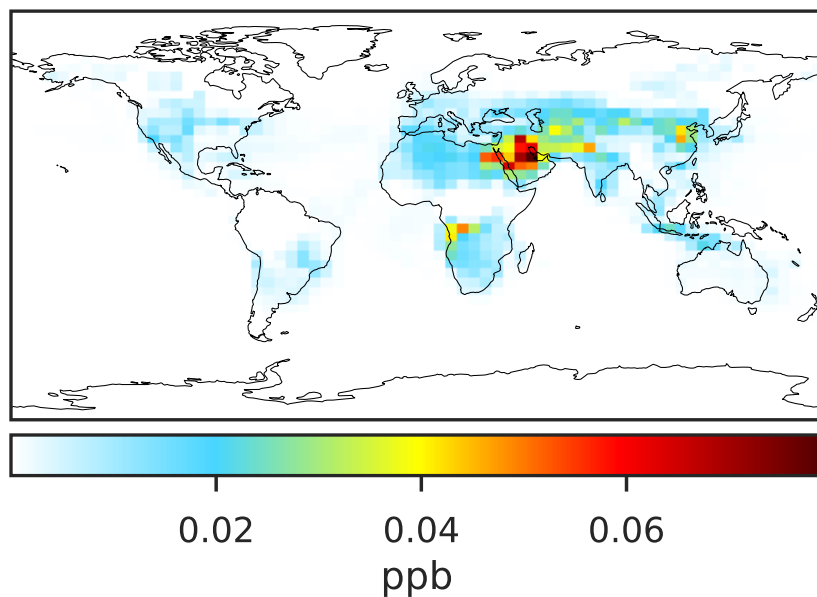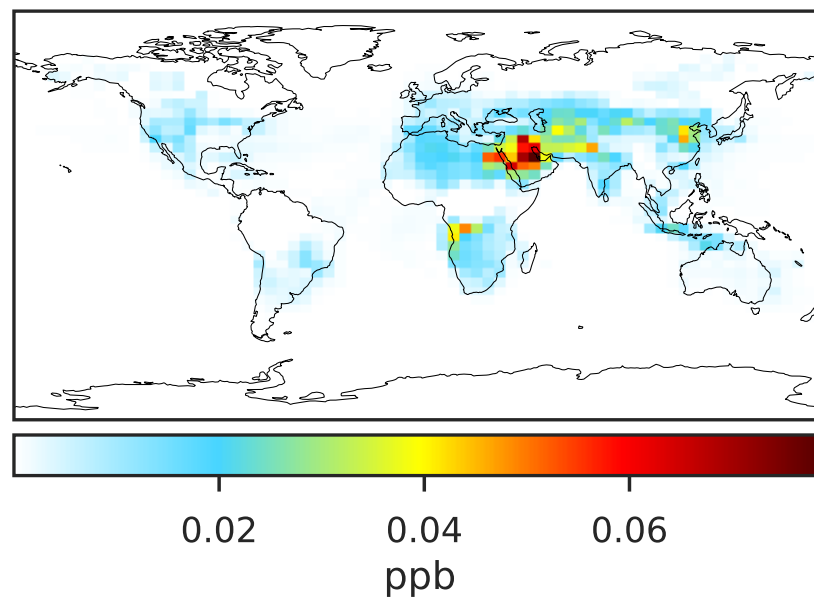
gcc-4x5-1Mon-14.3.0-alpha.7 (Dev)
4.0x5.0
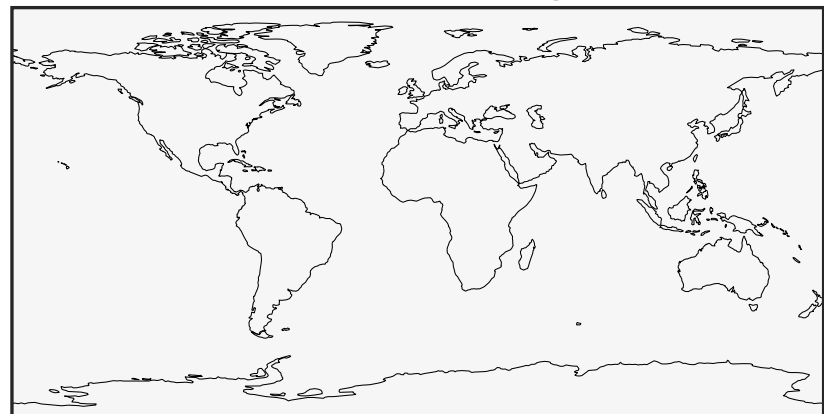
ppb

ppb

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
ppb

Zero throughout domain
ppb

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless
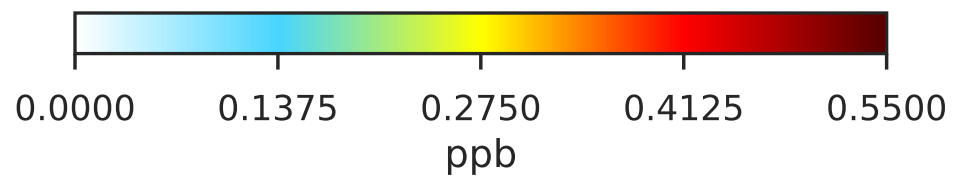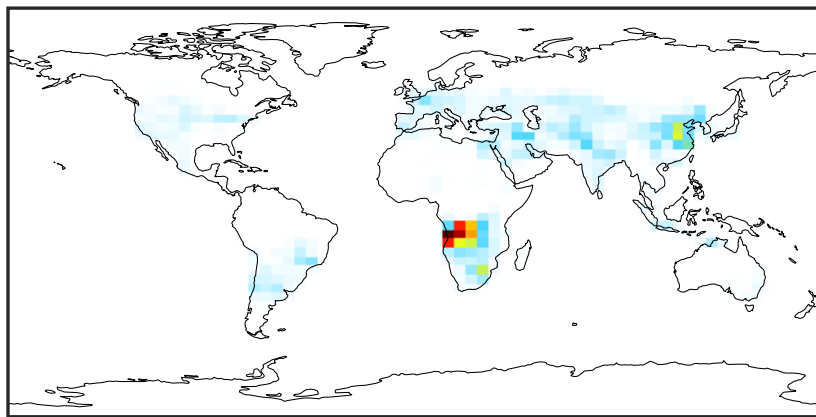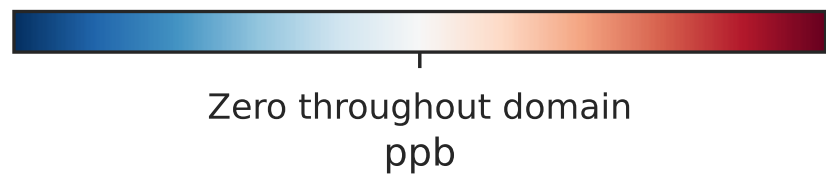
SpeciesConcVV_N2O5
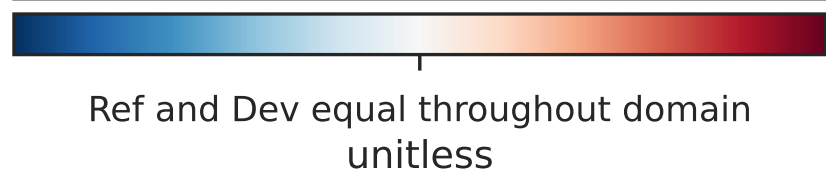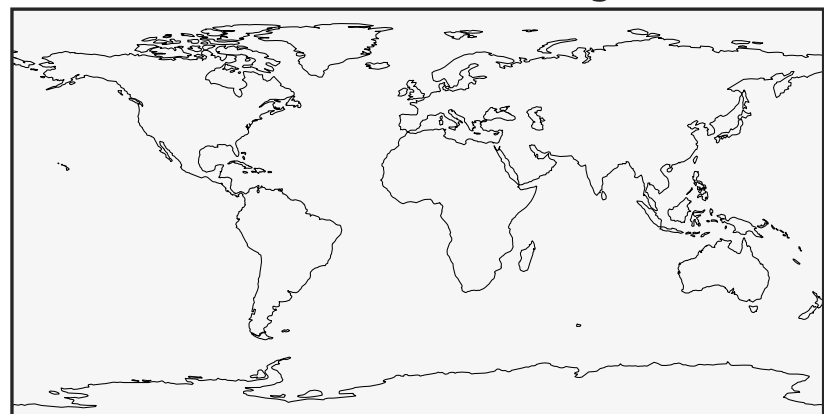
SpeciesConcVV_MPN

gcc-4x5-1Mon-14.3.0-alpha.6 (Ref)
4.0x5.0
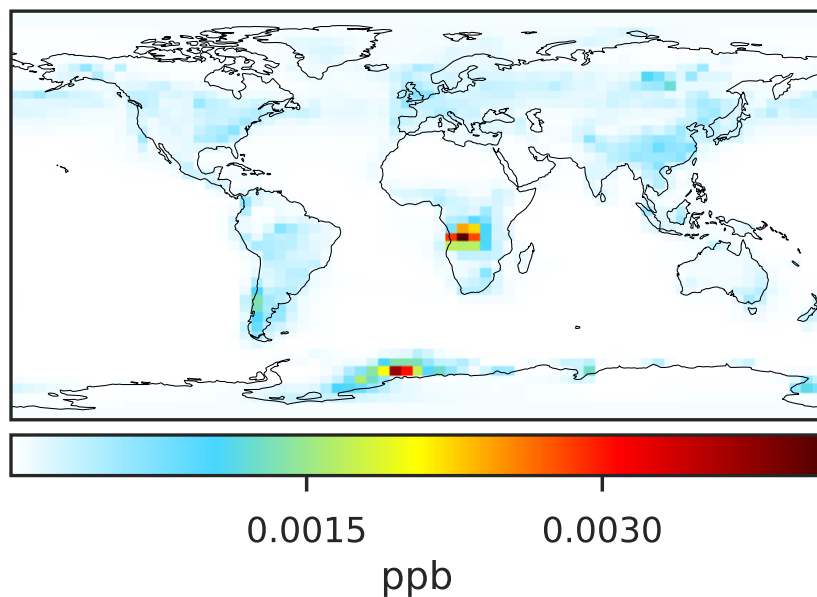
0.0015   0.0030
ppb

gcc-4x5-1Mon-14.3.0-alpha.7 (Dev)
4.0x5.0

0.0015   0.0030
ppb

Difference
Dev - Ref, Dynamic Range

Zero throughout domain
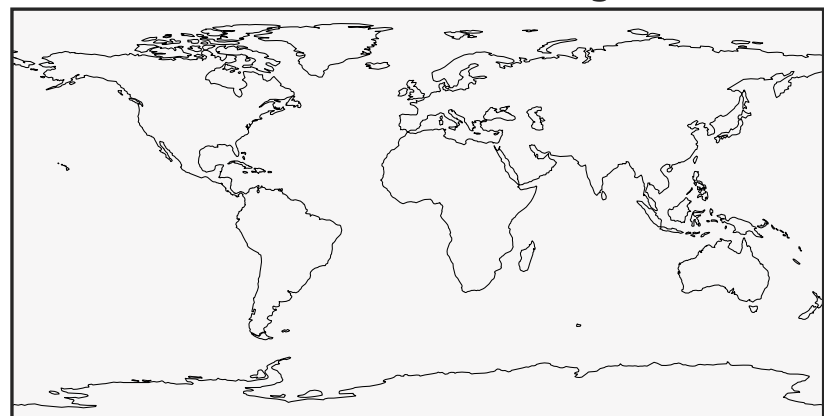ppb

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

Zero throughout domain
ppb

Ratio
Dev/Ref, Dynamic Range
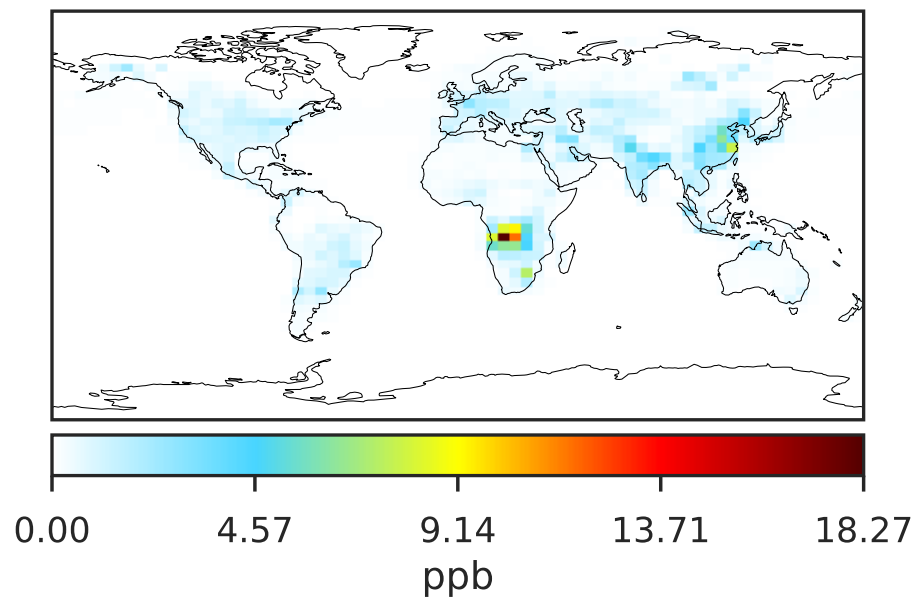
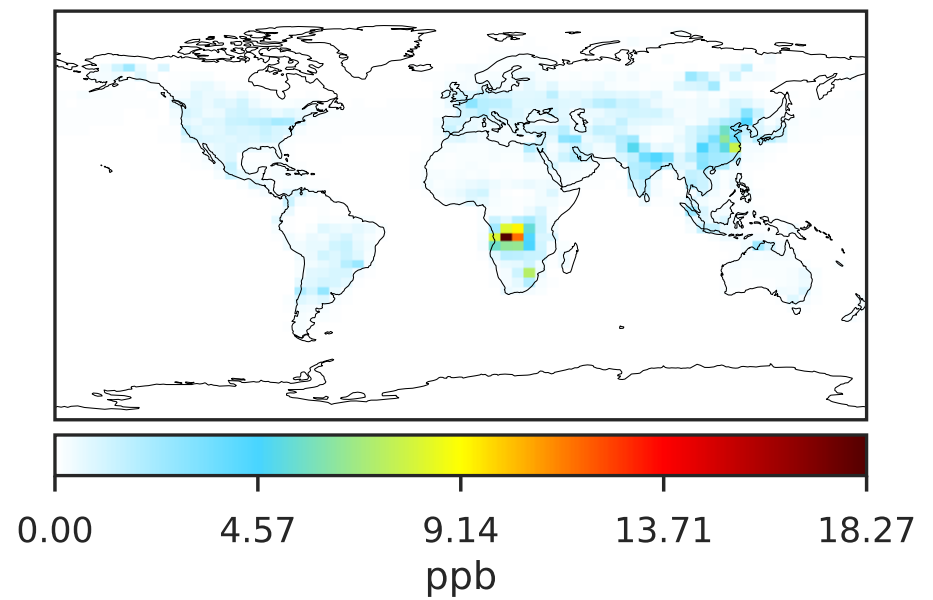

Ref and Dev equal throughout domain
unitless

Ratio
Dev/Ref, Fixed Range
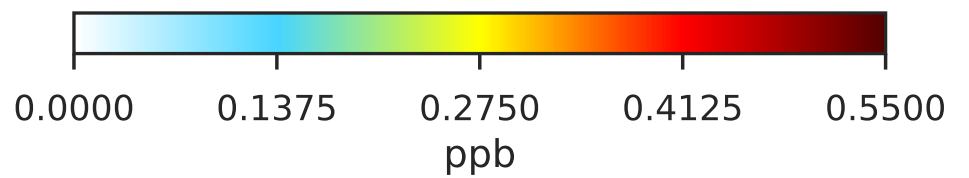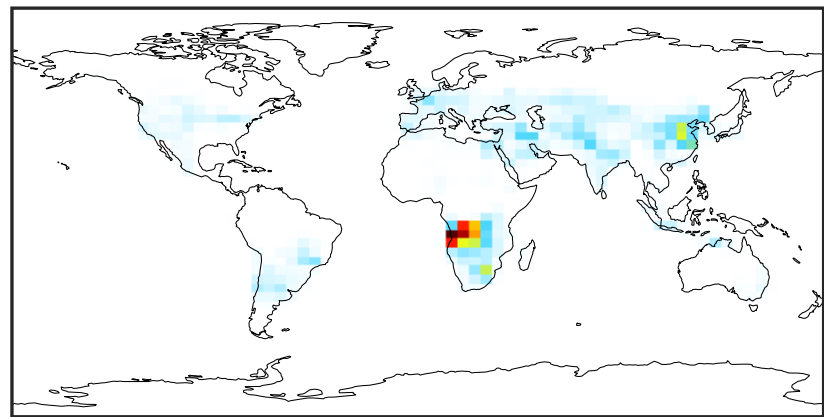

Ref and Dev equal throughout domain
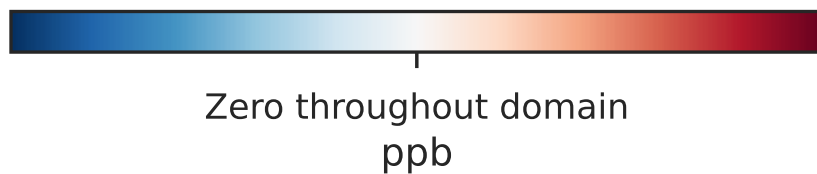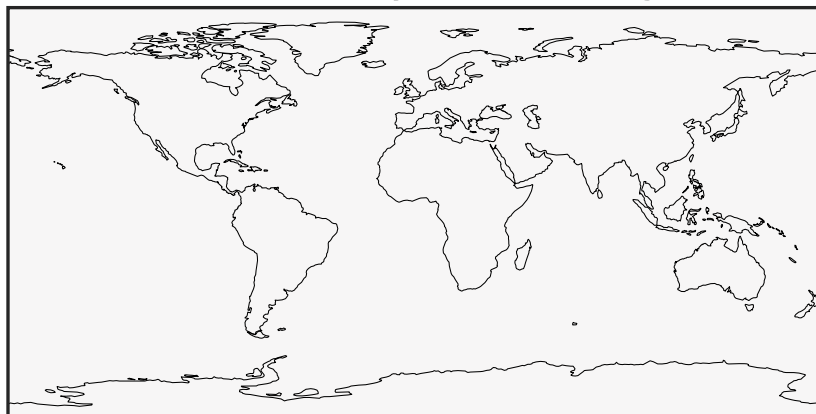unitless

SpeciesConcVV_PAN

SpeciesConcVV_PPN

gcc-4x5-1Mon-14.3.0-alpha.6 (Ref)
4.0x5.0

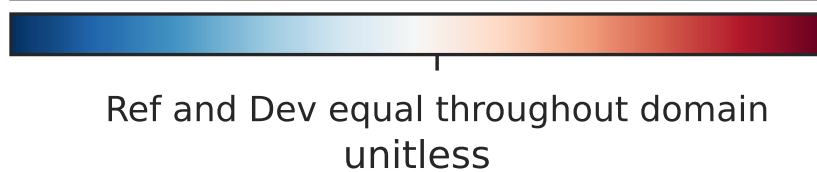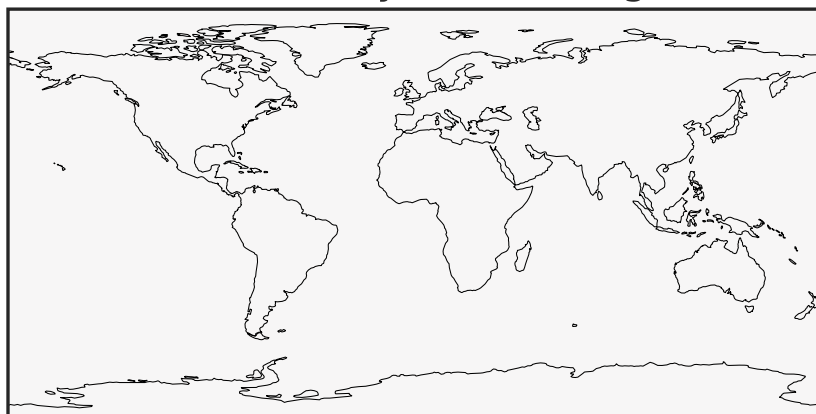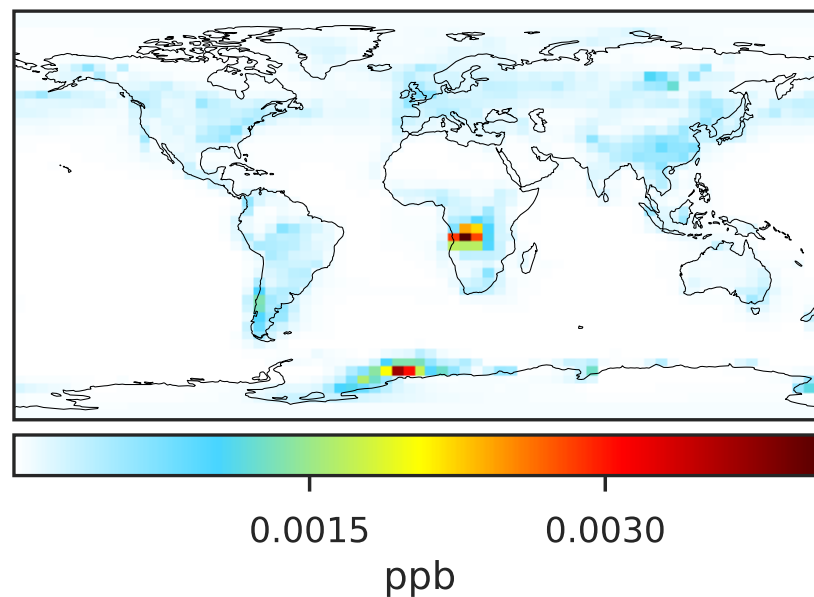gcc-4x5-1Mon-14.3.0-alpha.7 (Dev)
4.0x5.0

0.0000   0.2095   0.4189   0.6284   0.8378
ppb

0.0000   0.2095   0.4189   0.6284   0.8378
ppb

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
ppb

Zero throughout domain
ppb

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

SpeciesConcVV_N2O

SpeciesConcVV_NHx

SpeciesConcVV_NH3
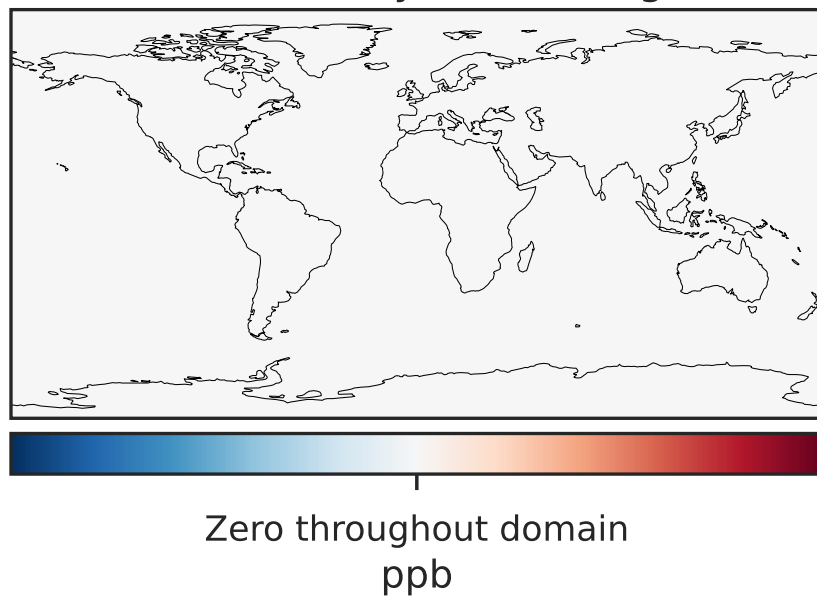
SpeciesConcVV_NH4

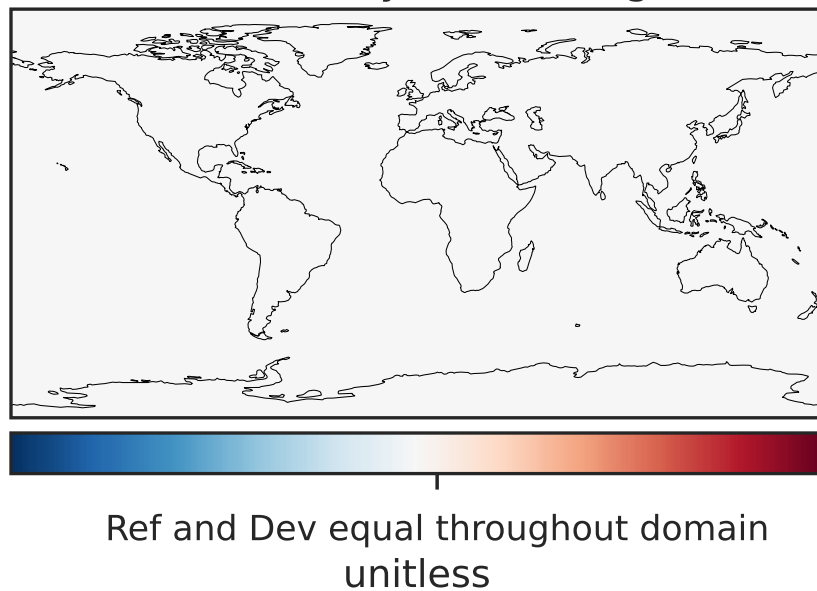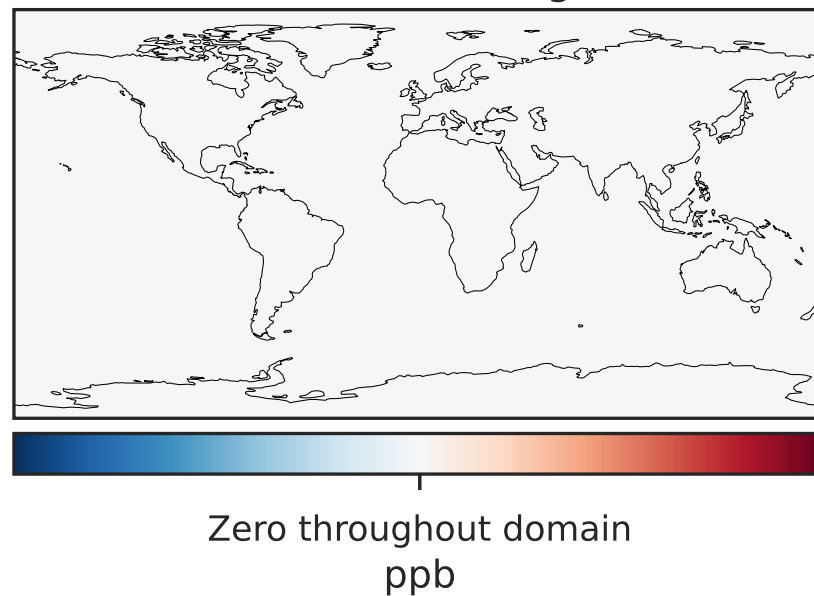gcc-4x5-1Mon-14.3.0-alpha.6 (Ref)
4.0x5.0

gcc-4x5-1Mon-14.3.0-alpha.7 (Dev)
4.0x5.0

ppb

ppb

Difference
Dev - Ref, Dynamic Range

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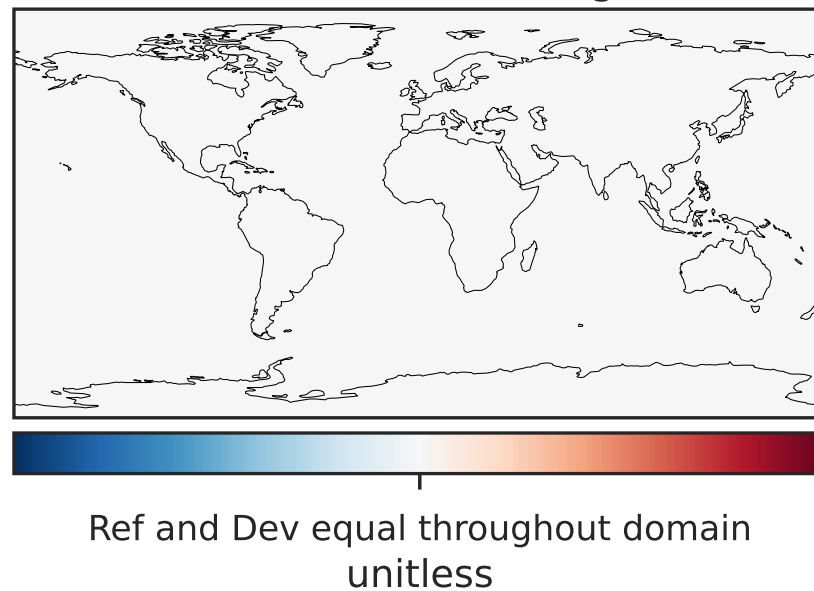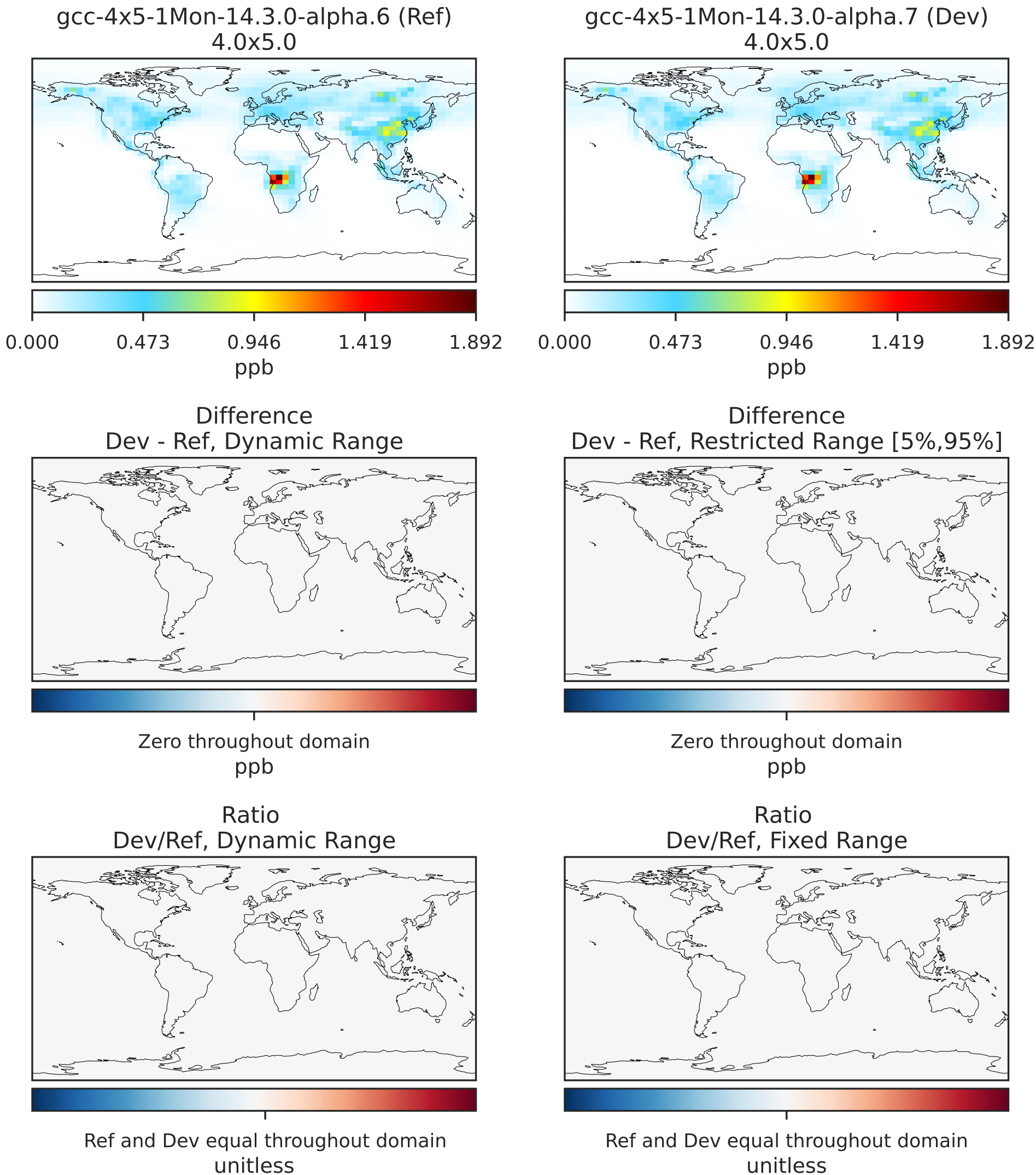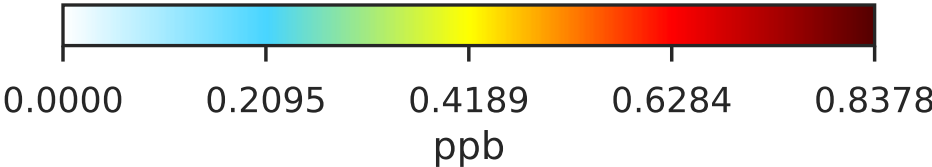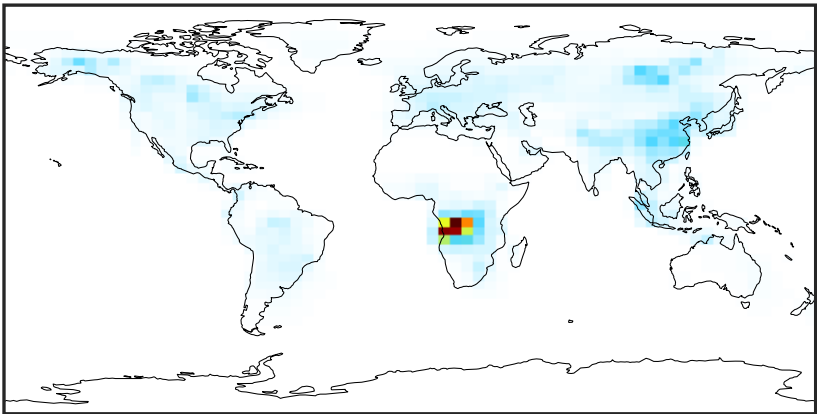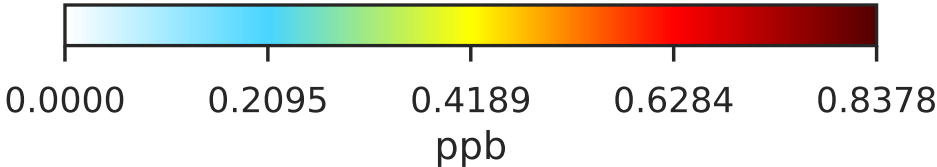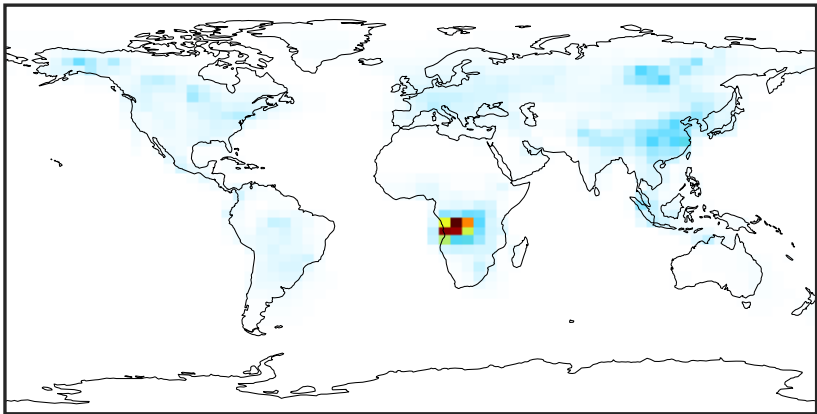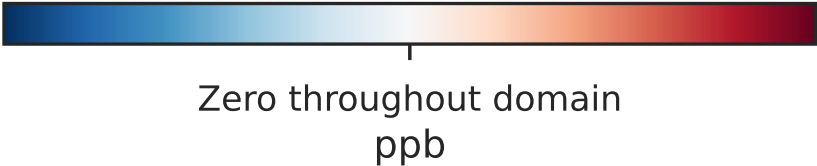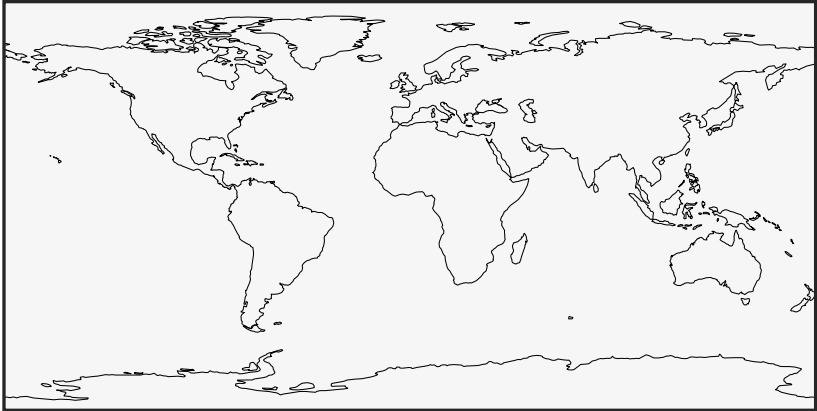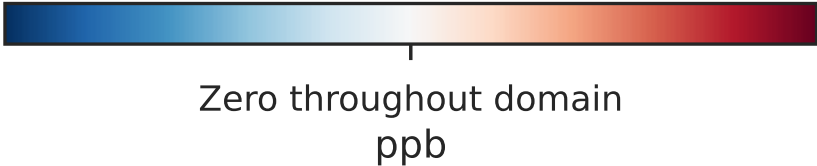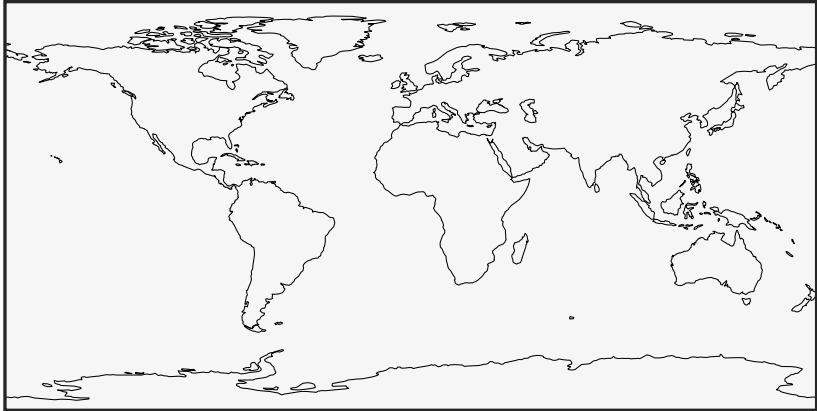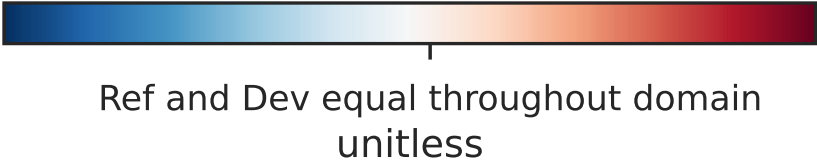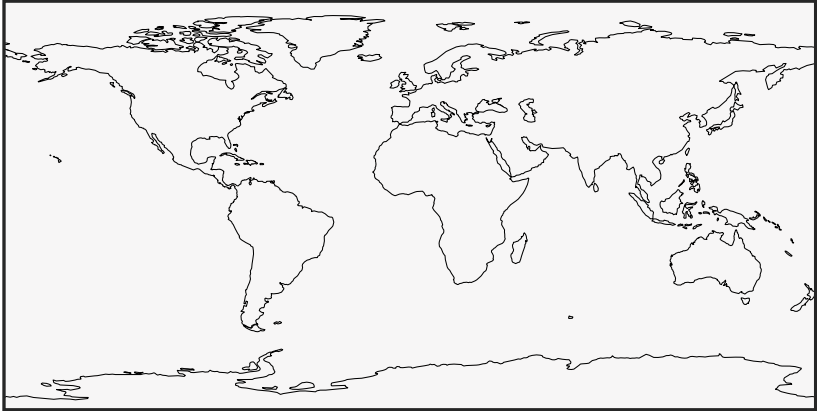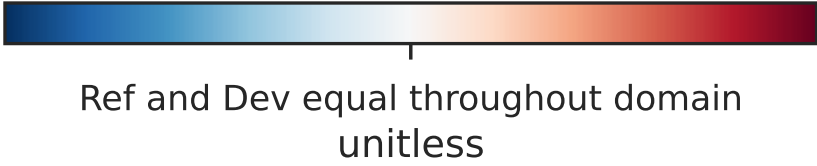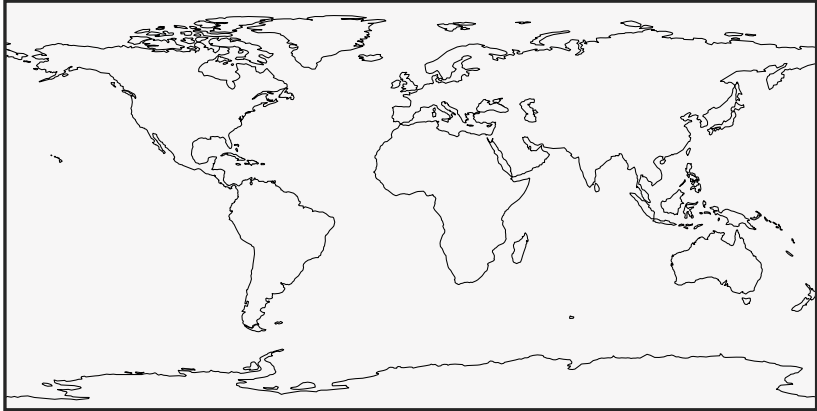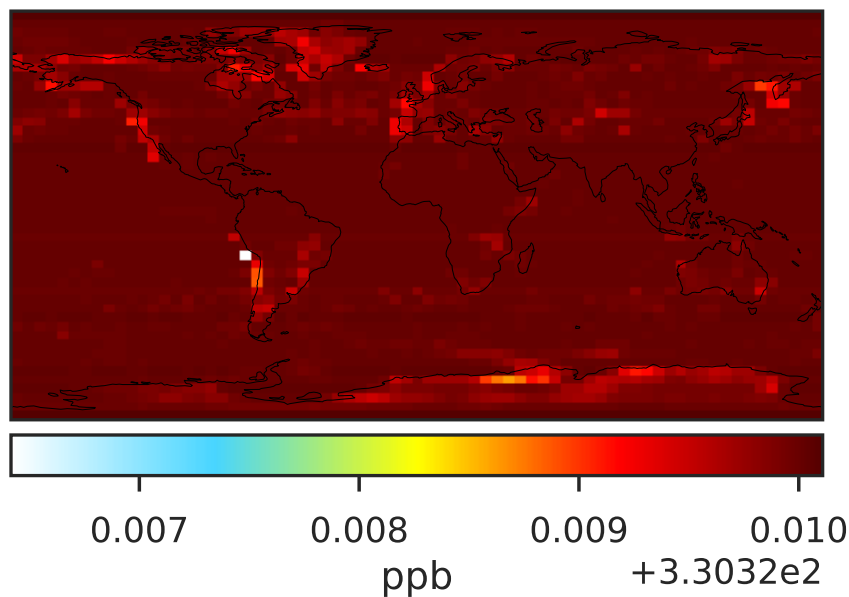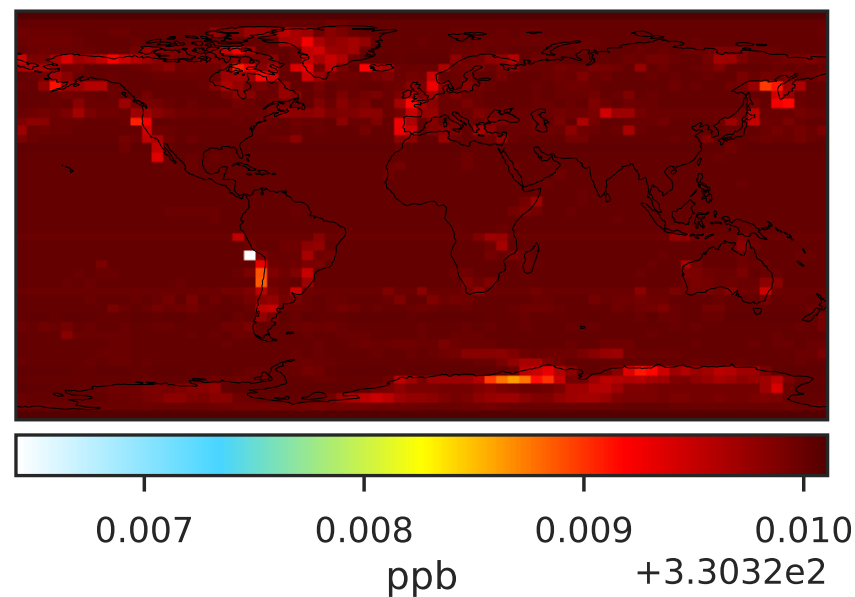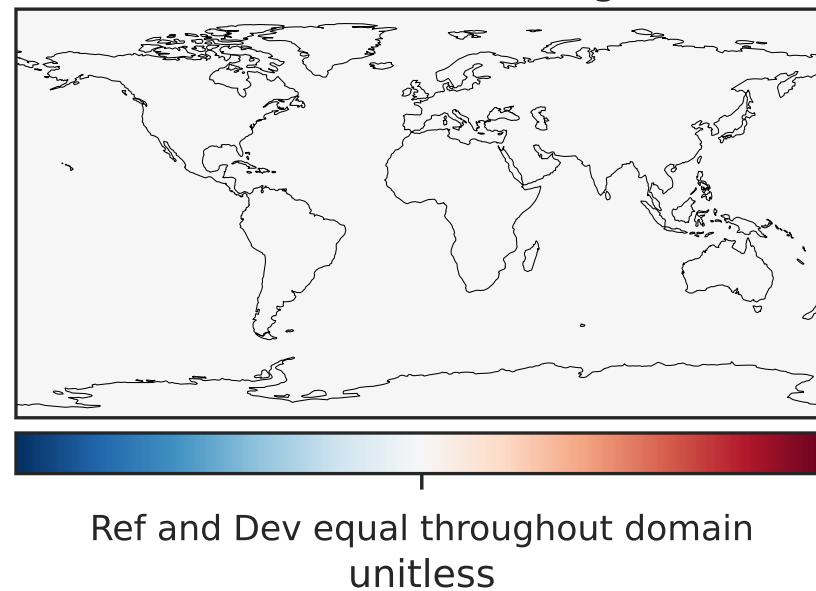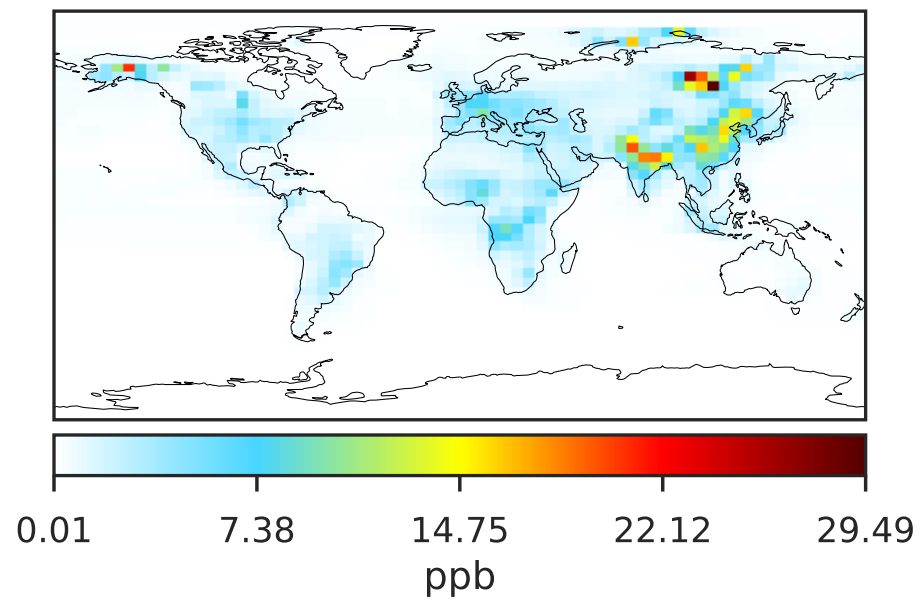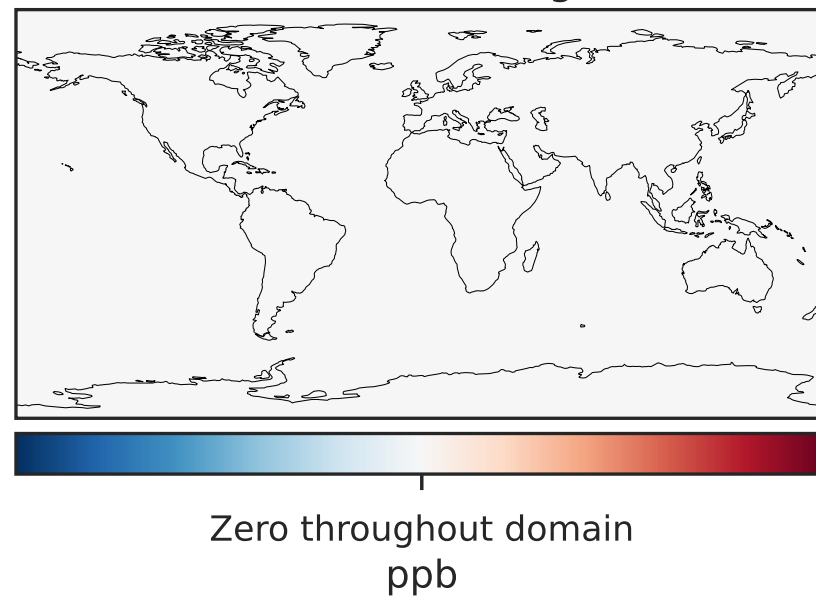Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
ppb

Zero throughout domain
ppb

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

SpeciesConcVV_MENO3

gcc-4x5-1Mon-14.3.0-alpha.6 (Ref)
4.0x5.0

ppb

gcc-4x5-1Mon-14.3.0-alpha.7 (Dev)
4.0x5.0

ppb

Difference
Dev - Ref, Dynamic Range

Zero throughout domain
ppb

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

Zero throughout domain
ppb

Ratio
Dev/Ref, Dynamic Range

Ref and Dev equal throughout domain
unitless

Ratio
Dev/Ref, Fixed Range

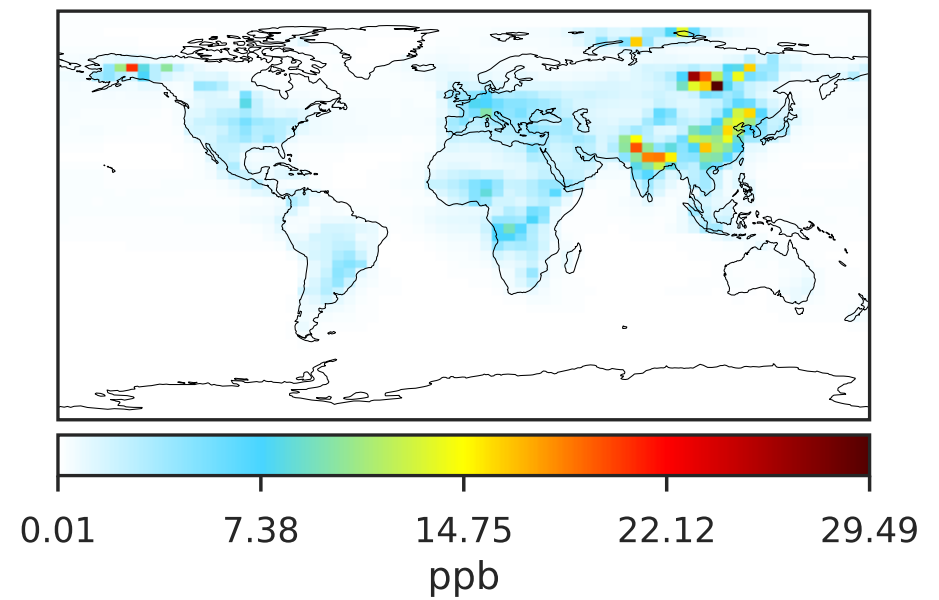Ref and Dev equal throughout domain
unitless
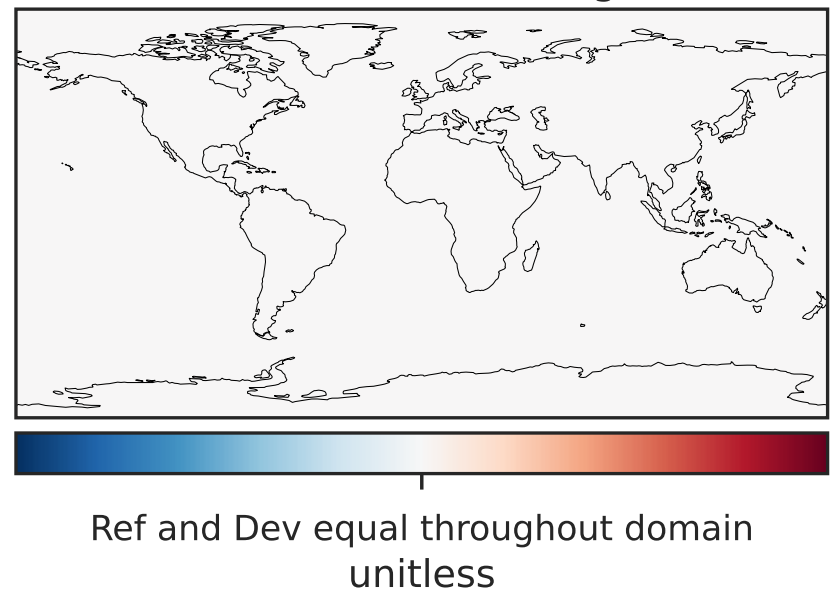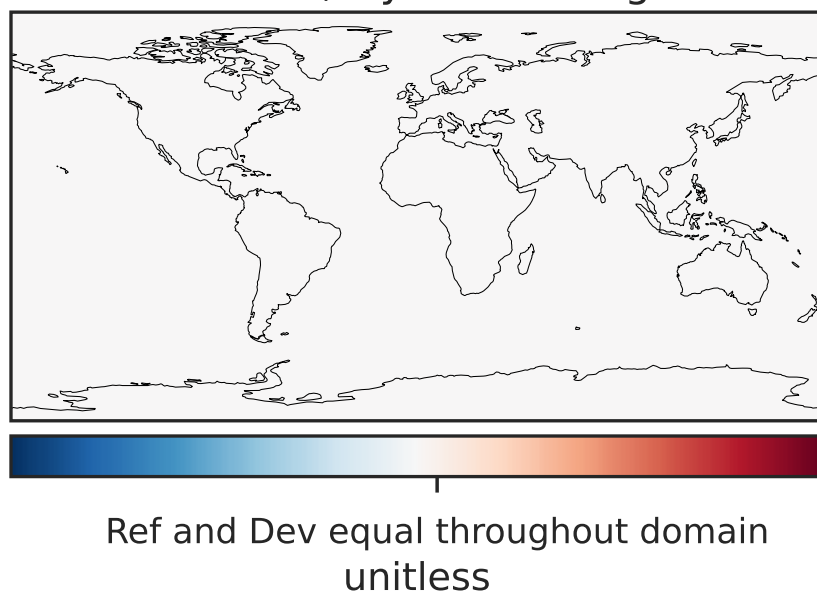
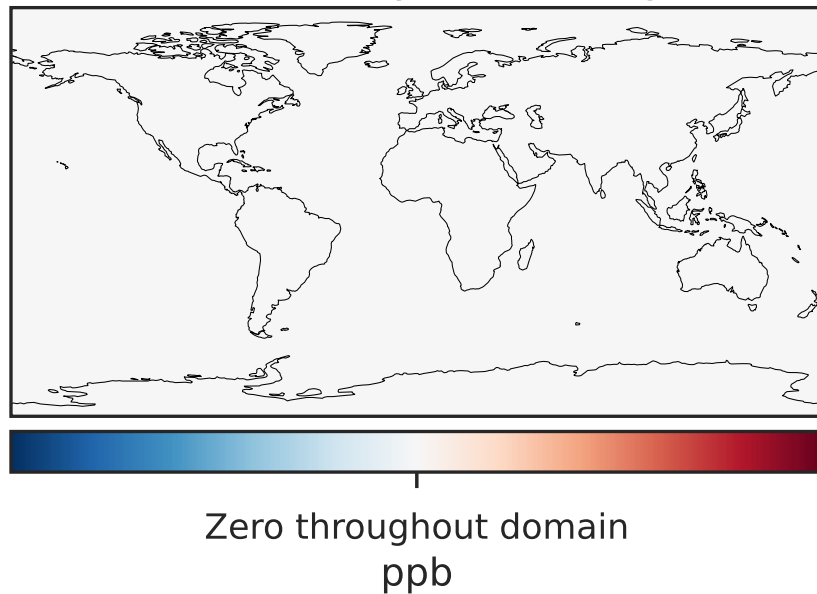# SpeciesConcVV_ETNO3

SpeciesConcVV_IPRNO3

gcc-4x5-1Mon-14.3.0-alpha.6 (Ref)
4.0x5.0
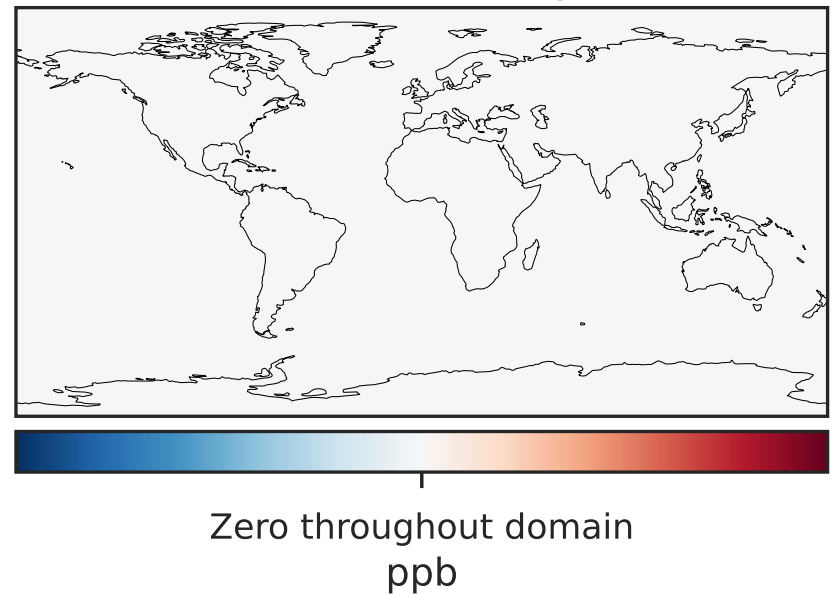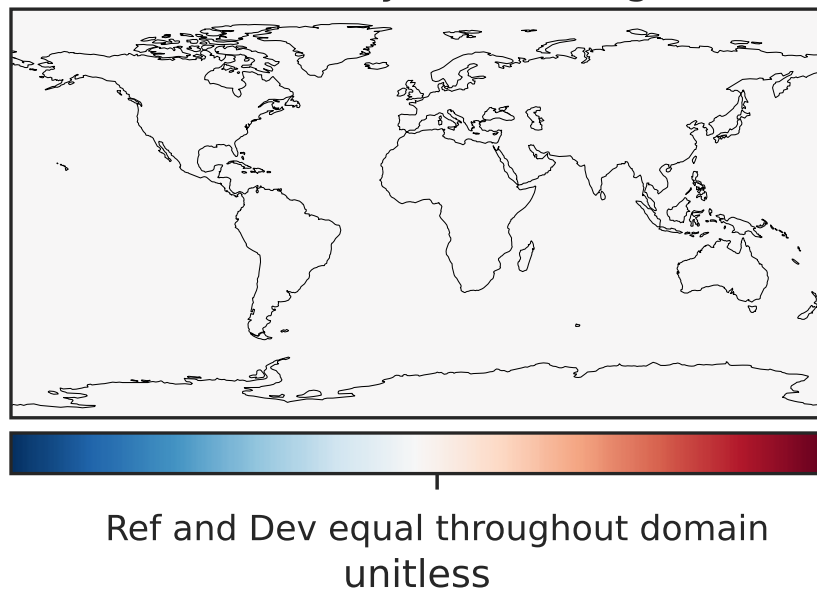
gcc-4x5-1Mon-14.3.0-alpha.7 (Dev)
4.0x5.0

ppb

ppb

Difference
Dev - Ref, Dynamic Range

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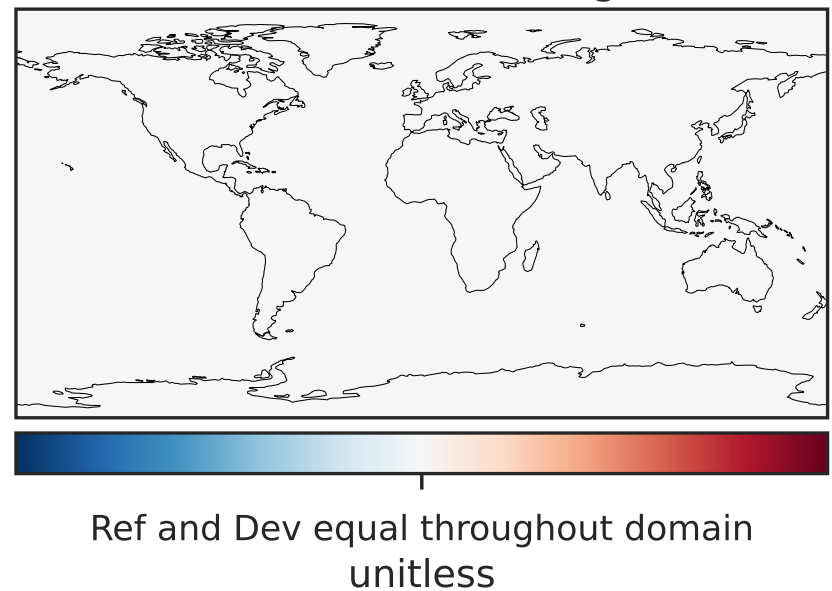Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
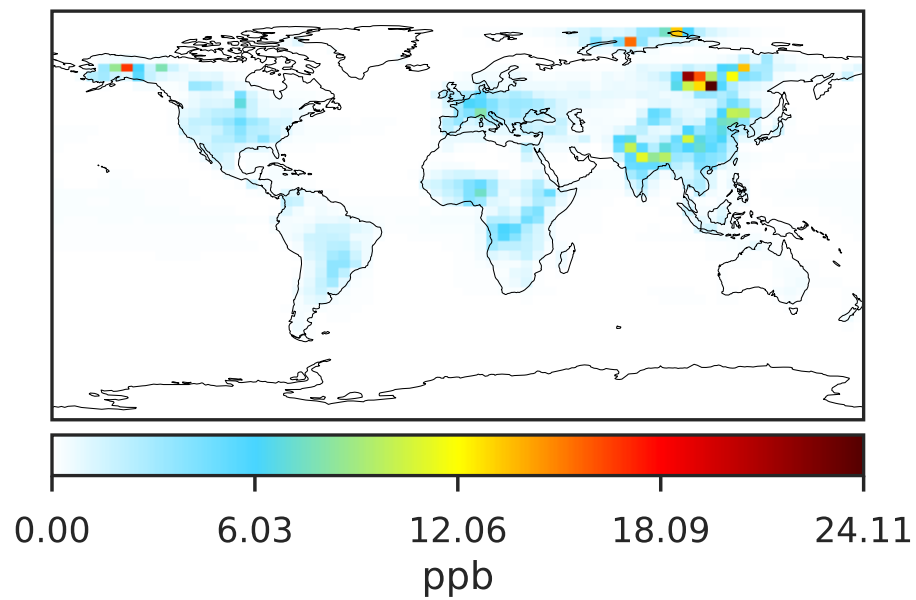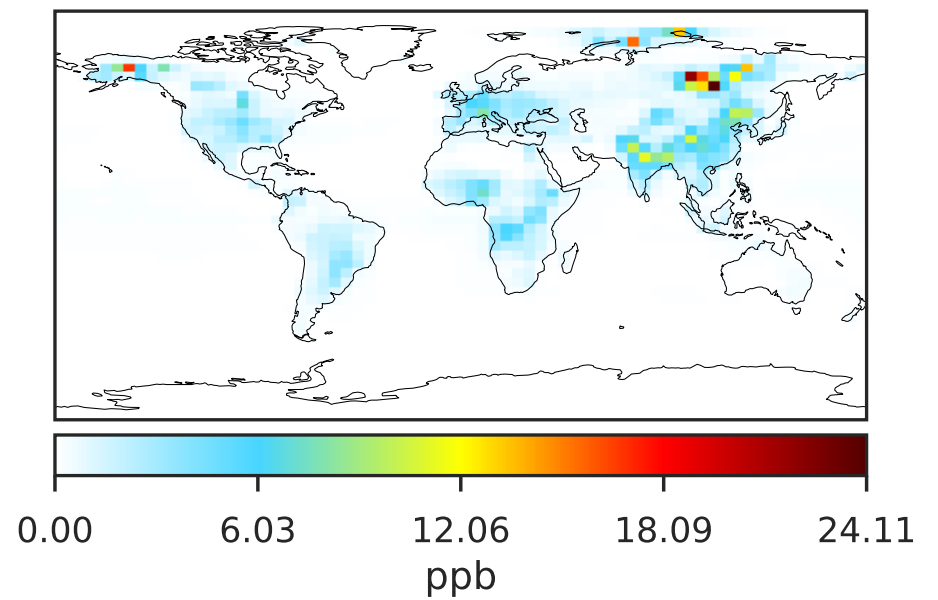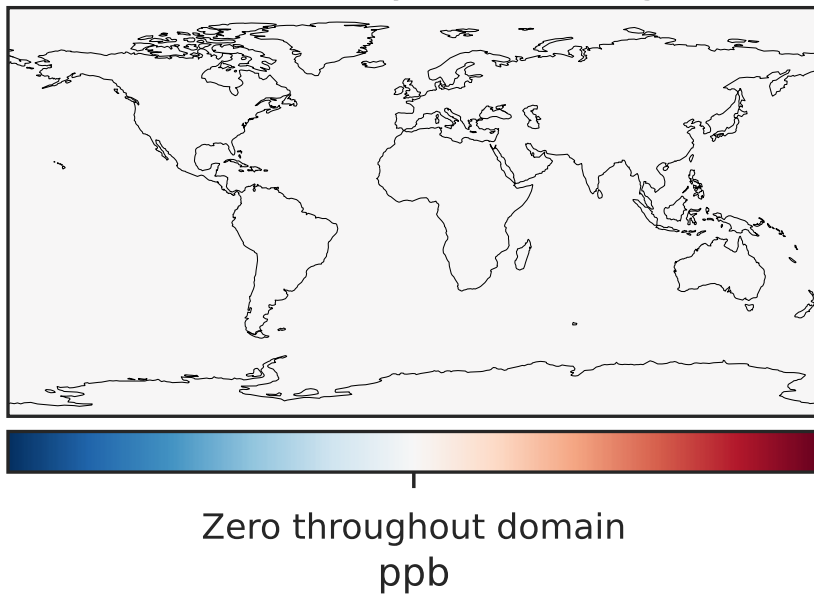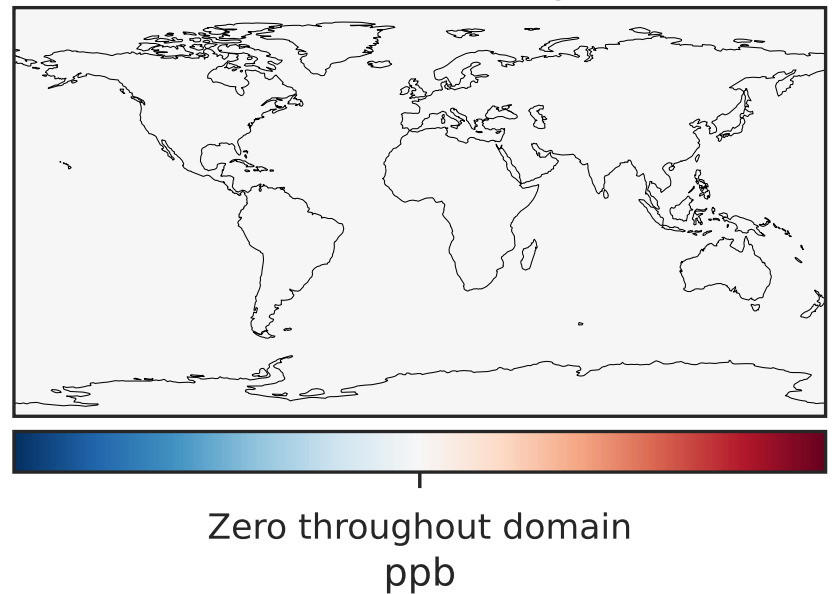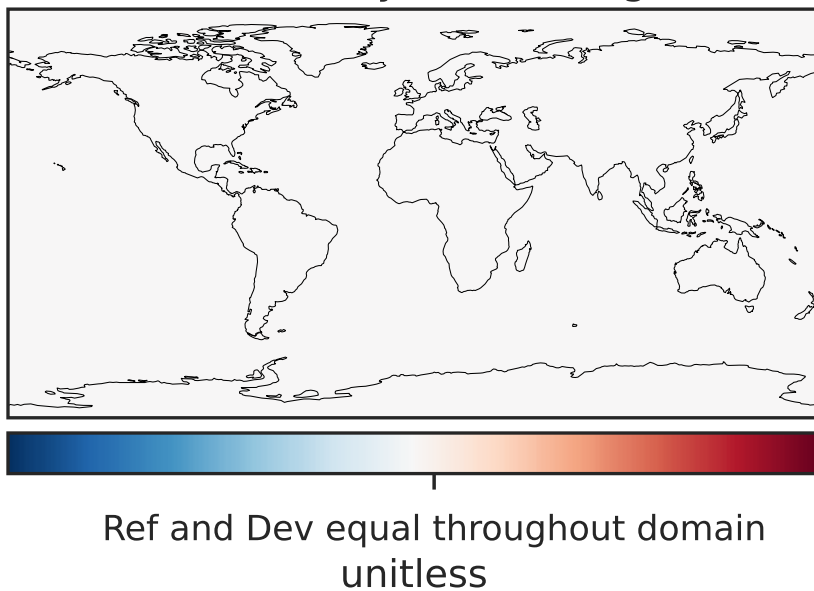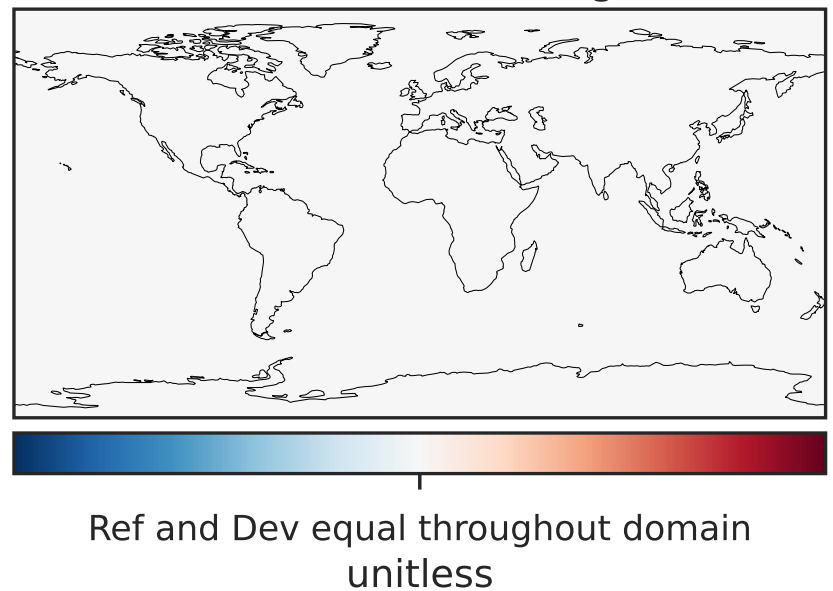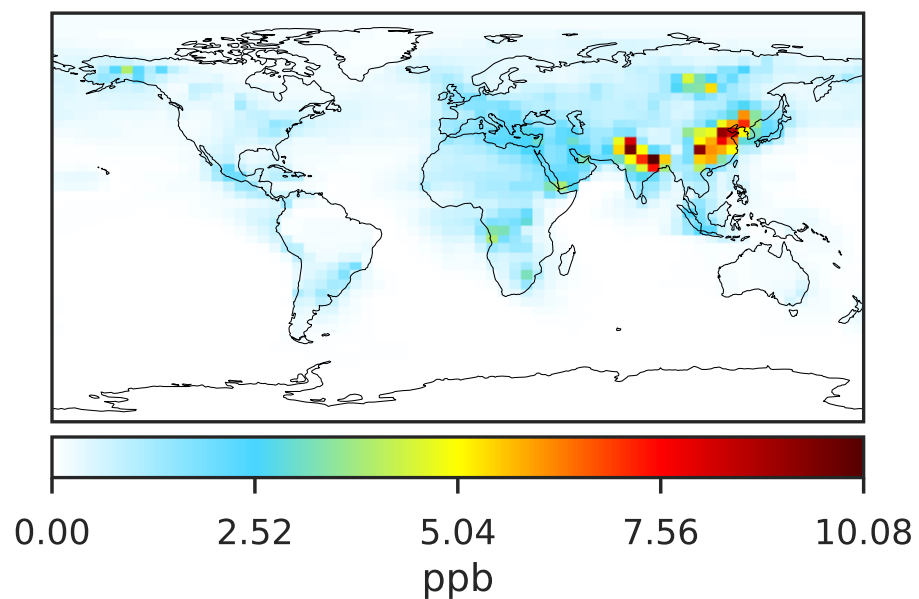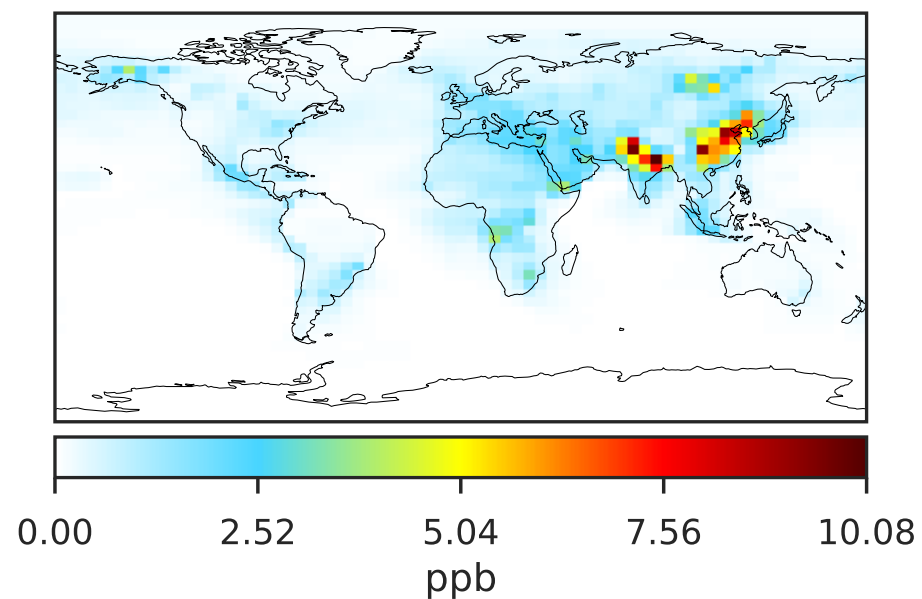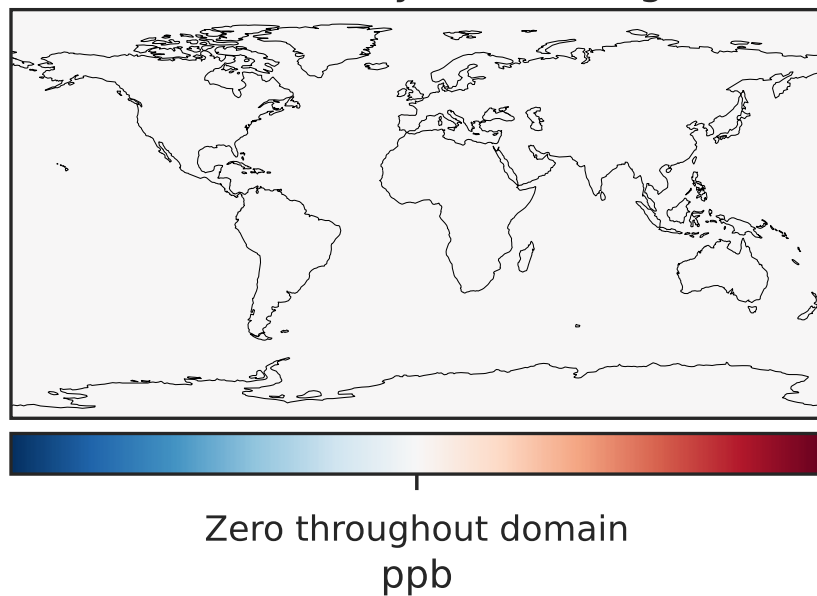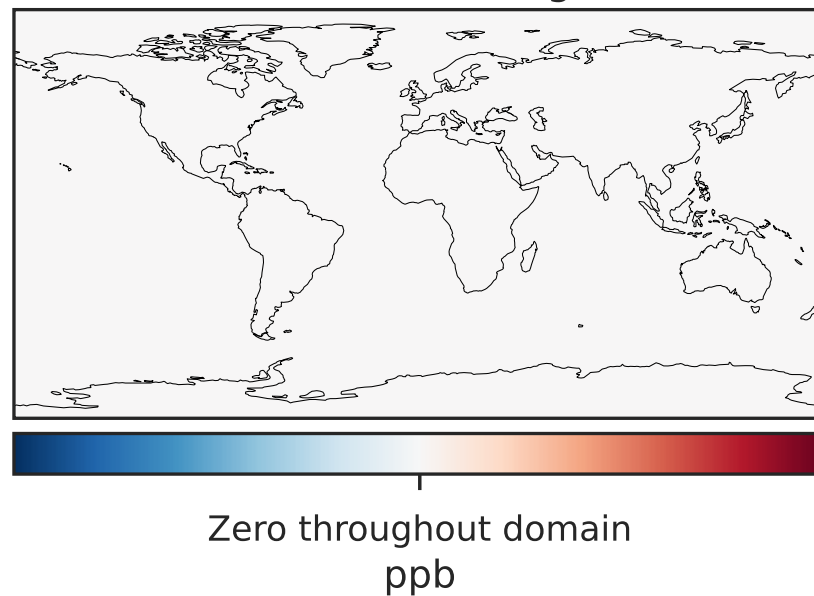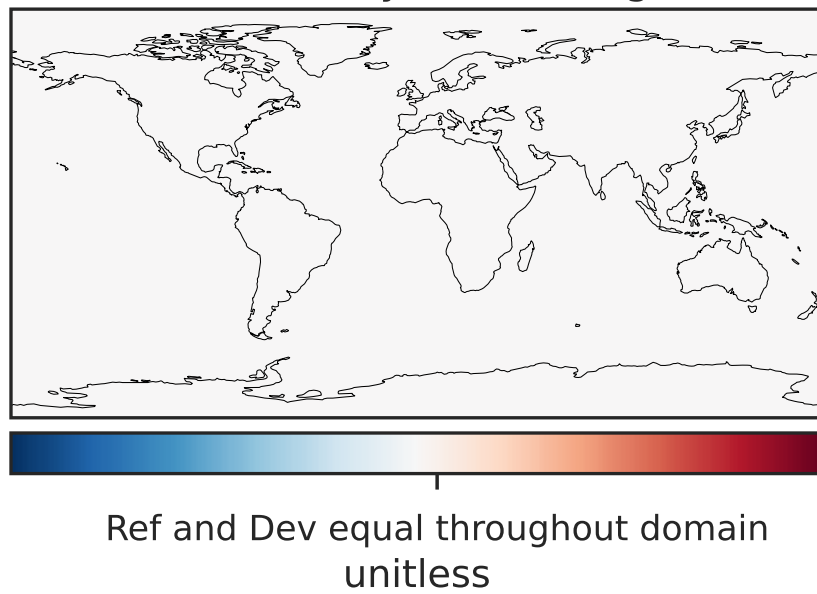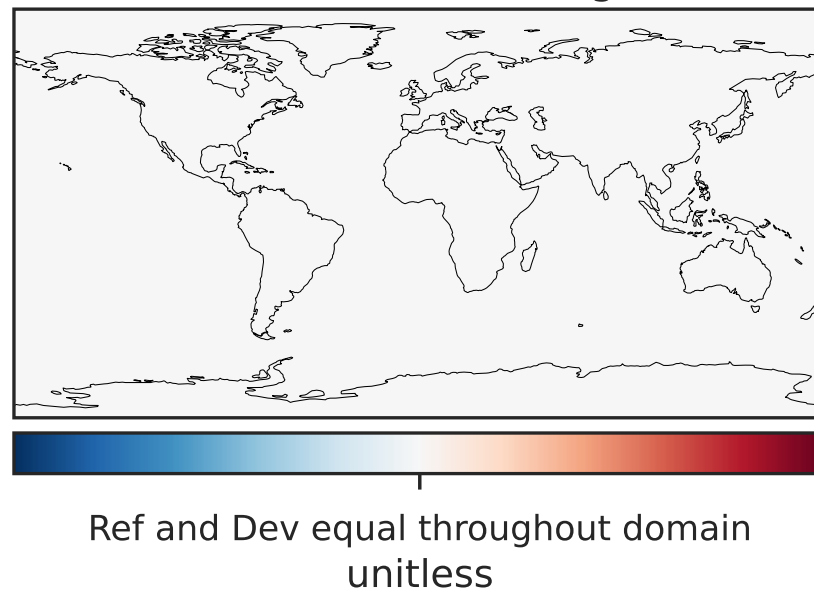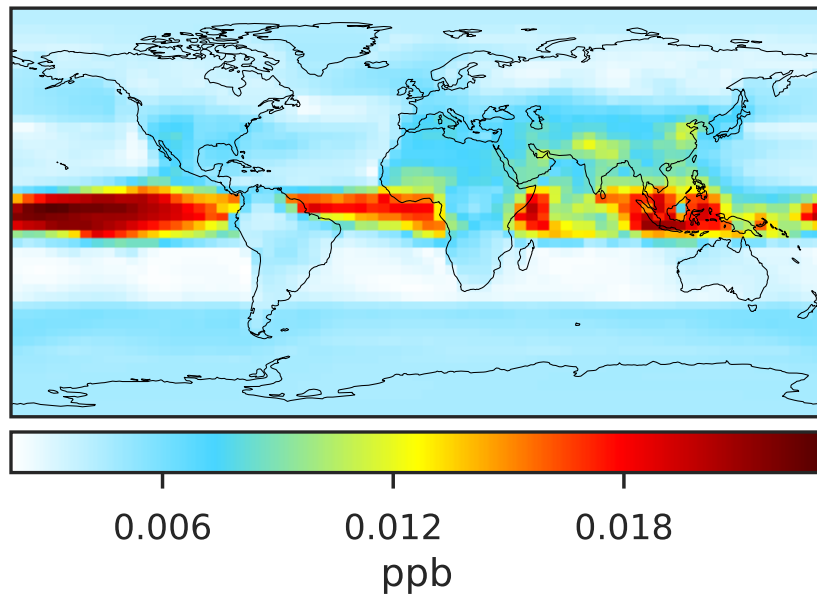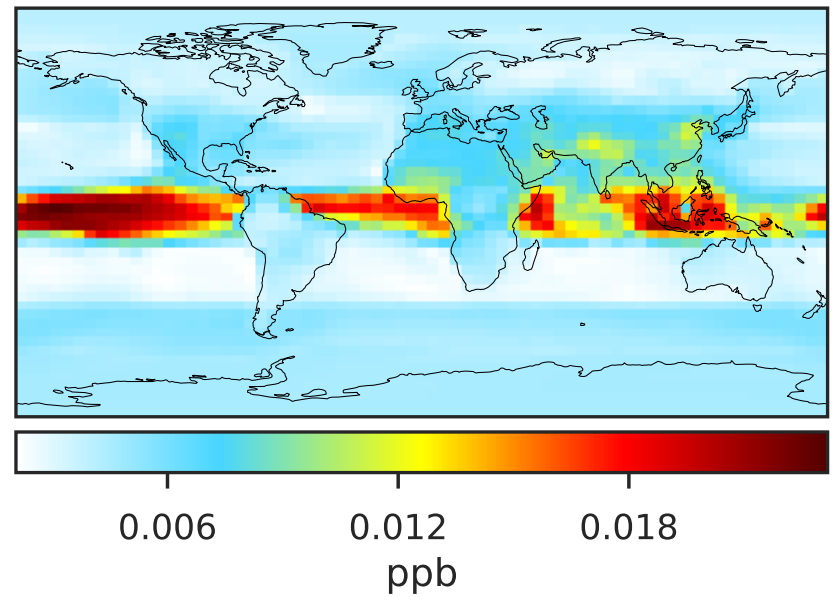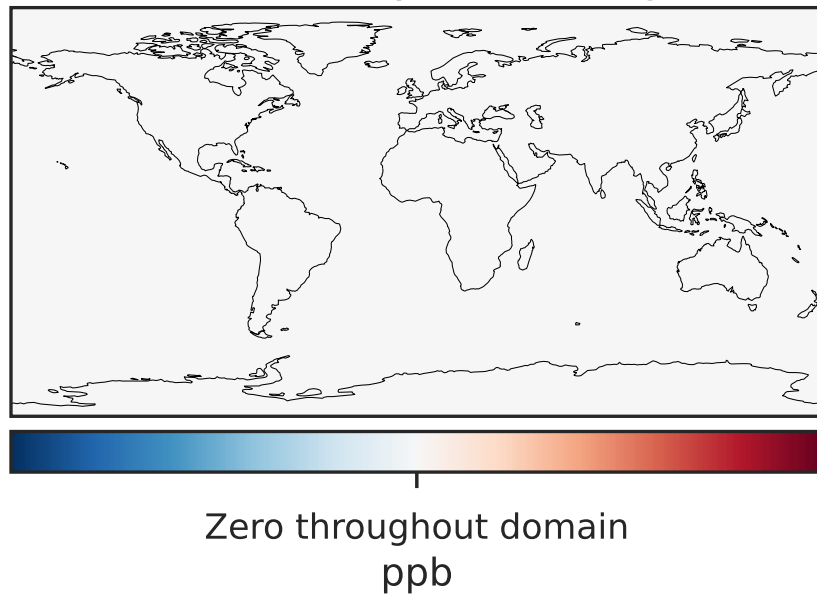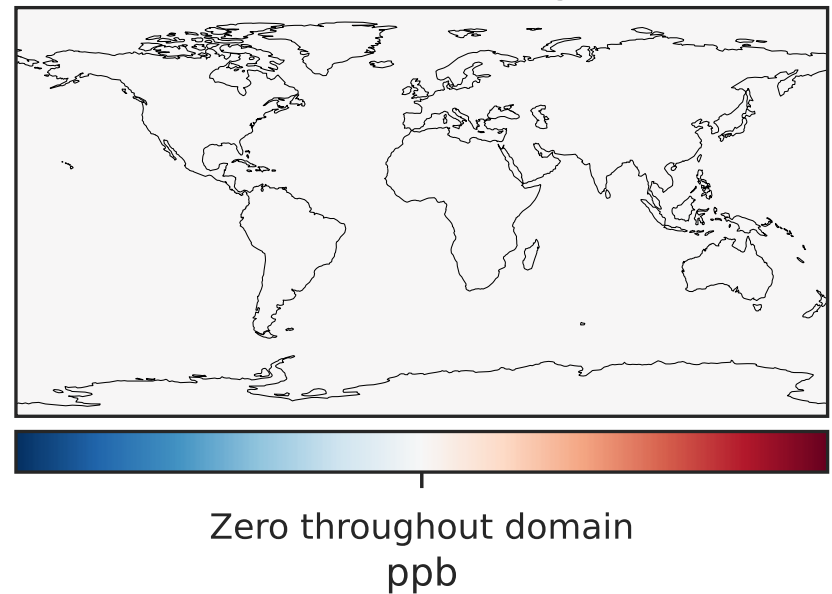ppb

Zero throughout domain
ppb

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

SpeciesConcVV_NPRNO3

gcc-4x5-1Mon-14.3.0-alpha.6 (Ref)
4.0x5.0

ppb

gcc-4x5-1Mon-14.3.0-alpha.7 (Dev)
4.0x5.0

ppb

Difference
Dev - Ref, Dynamic Range

Zero throughout domain
ppb

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

Zero throughout domain
ppb

Ratio
Dev/Ref, Dynamic Range

Ref and Dev equal throughout domain
unitless

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

SpeciesConcVV_AONITA

SpeciesConcVV_ETHN

gcc-4x5-1Mon-14.3.0-alpha.6 (Ref)
4.0x5.0
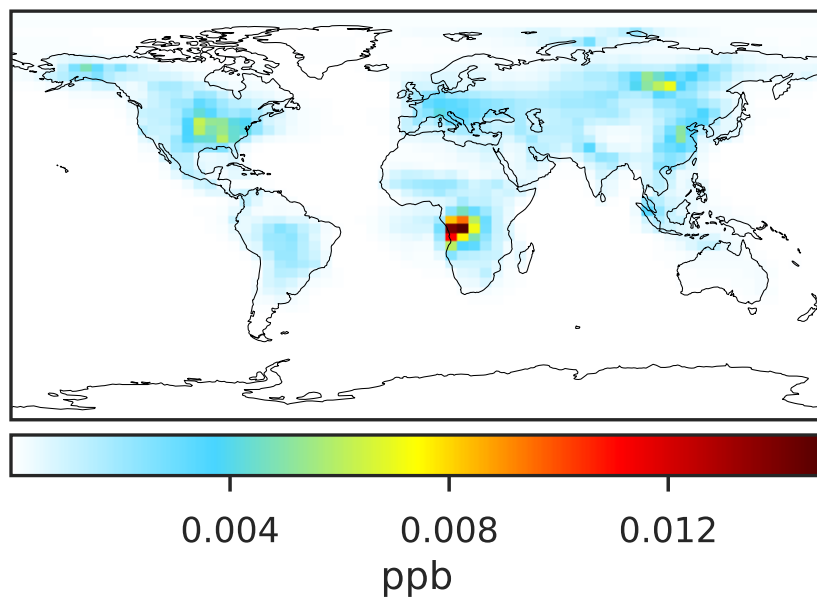
gcc-4x5-1Mon-14.3.0-alpha.7 (Dev)
4.0x5.0
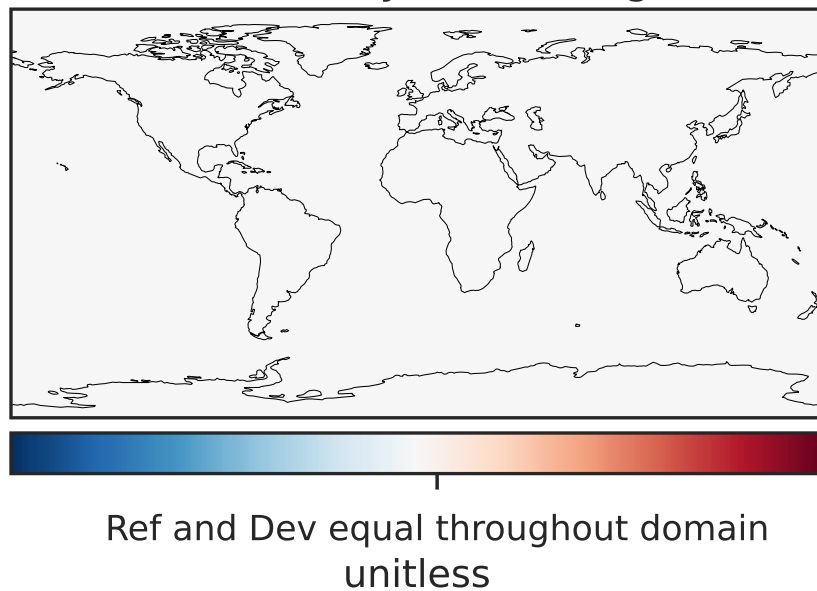
ppb

ppb

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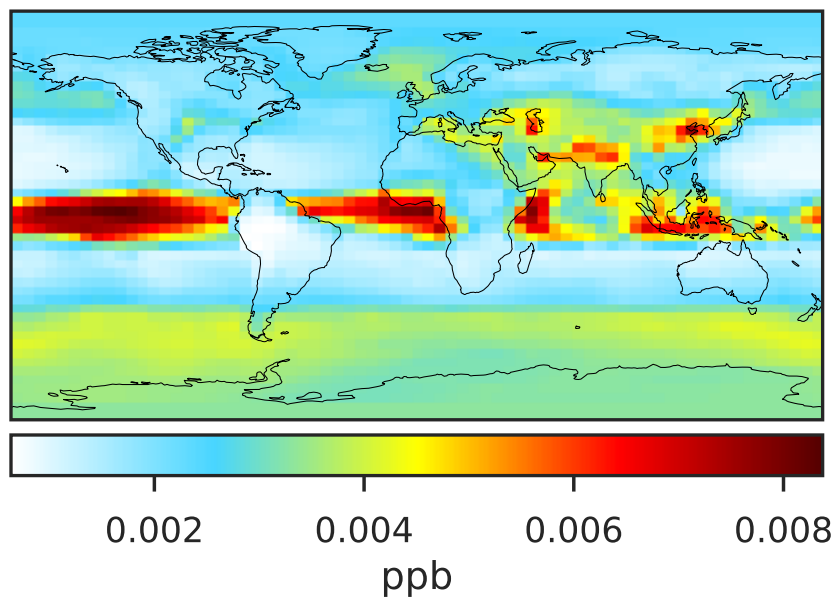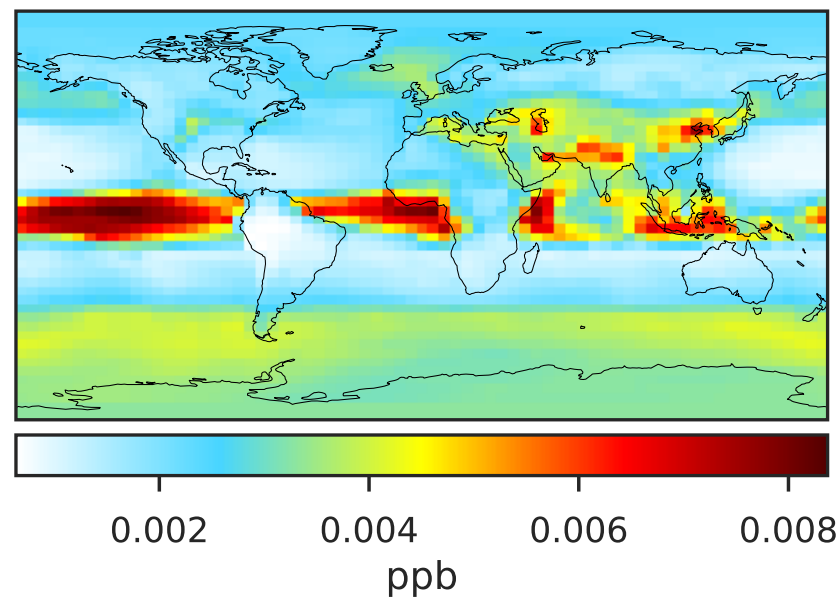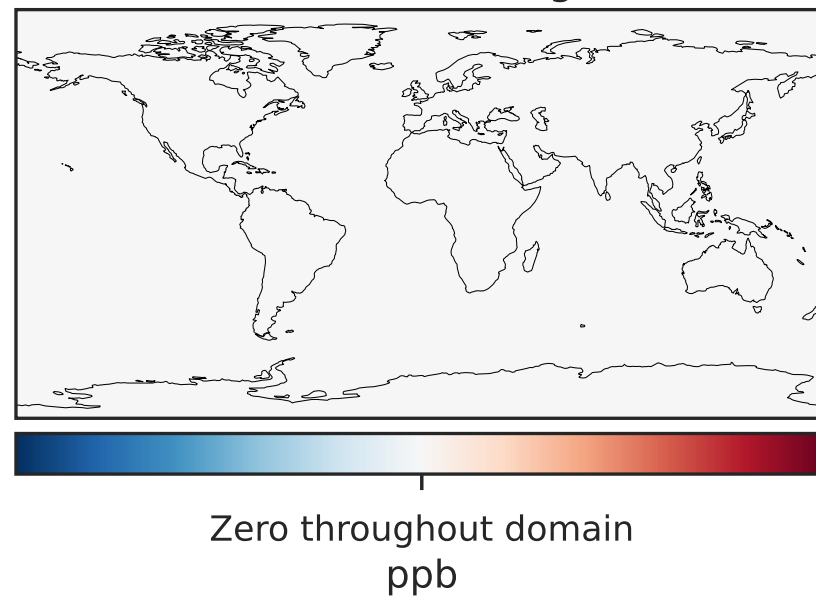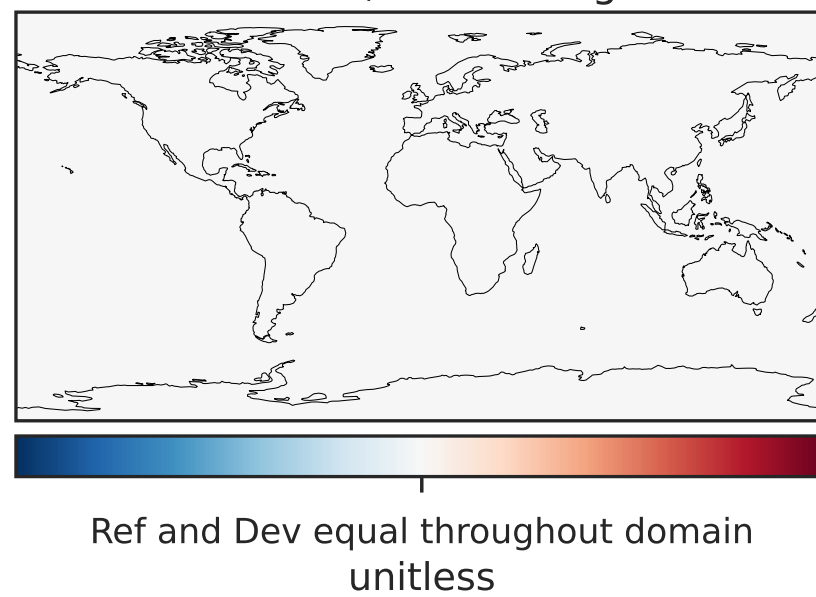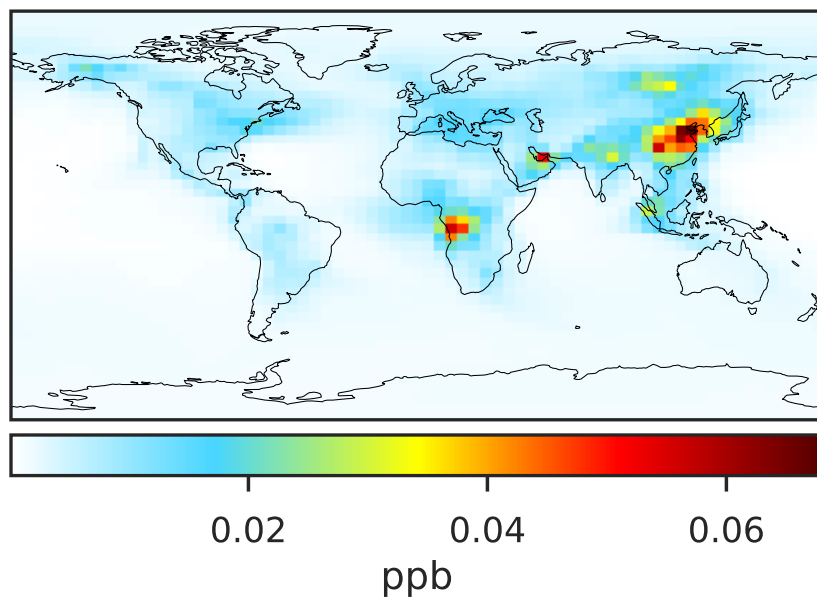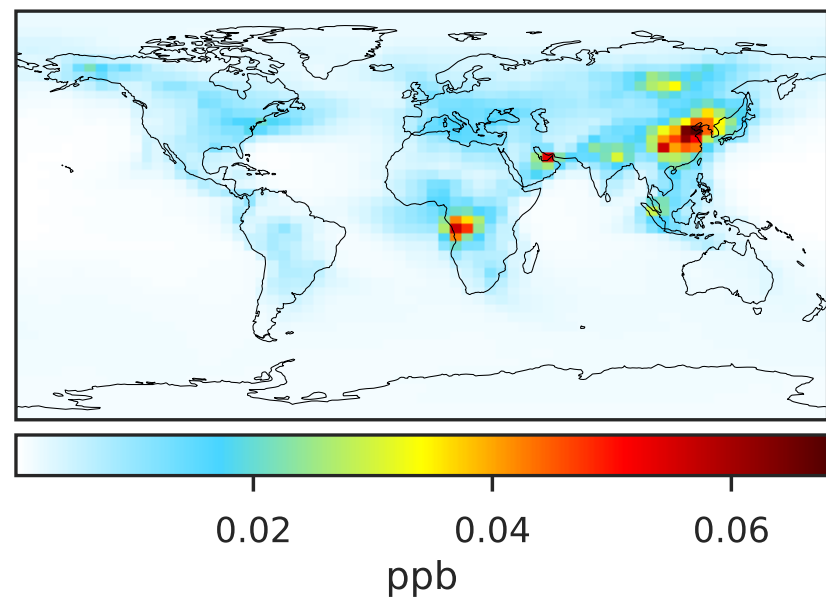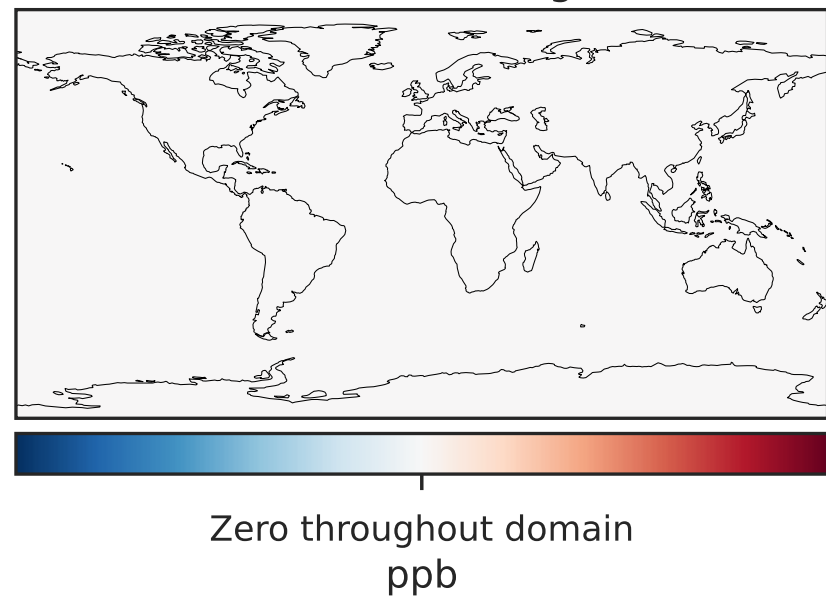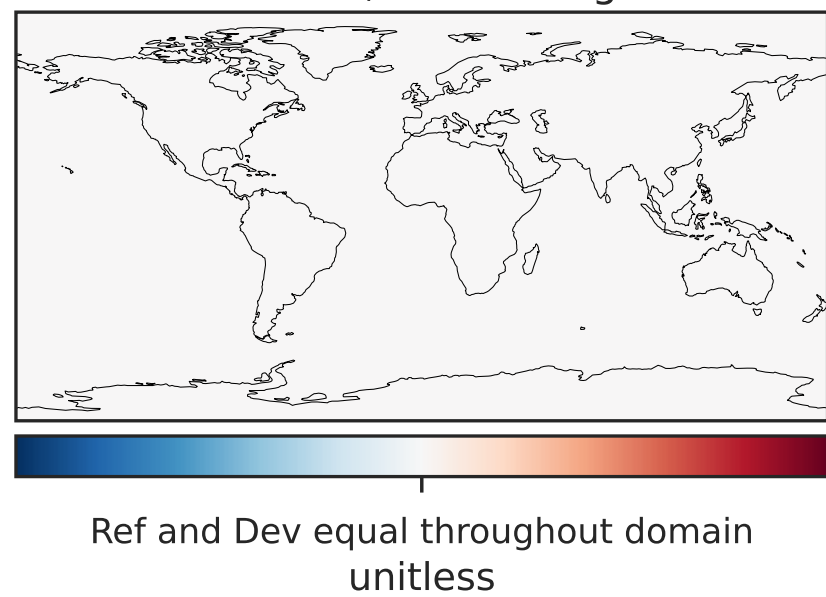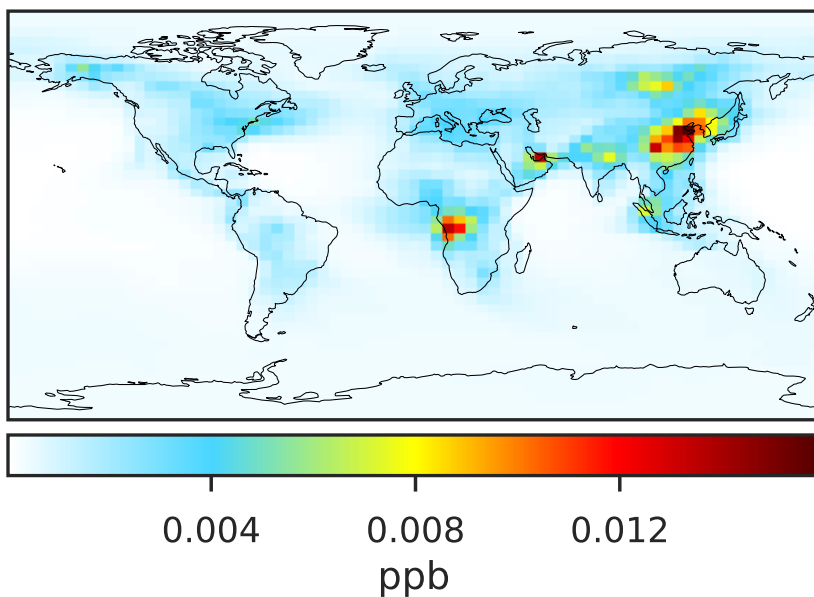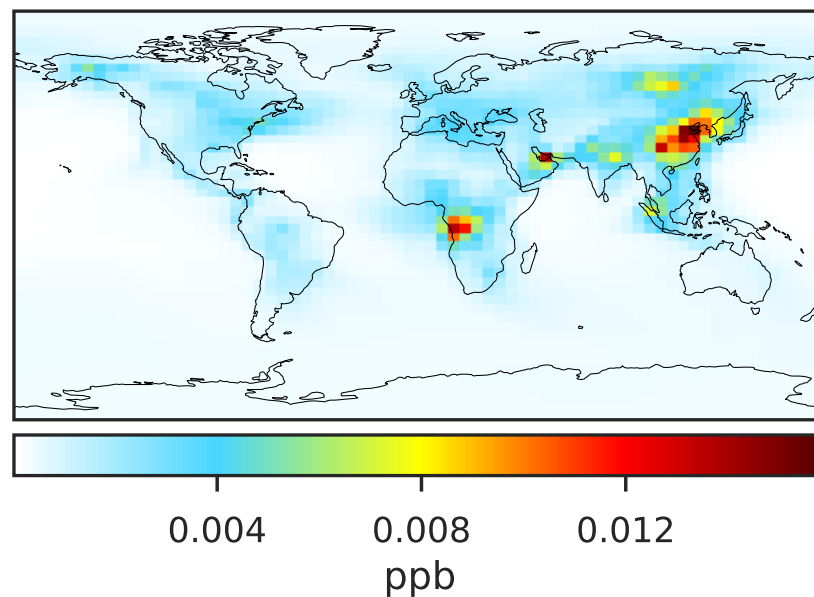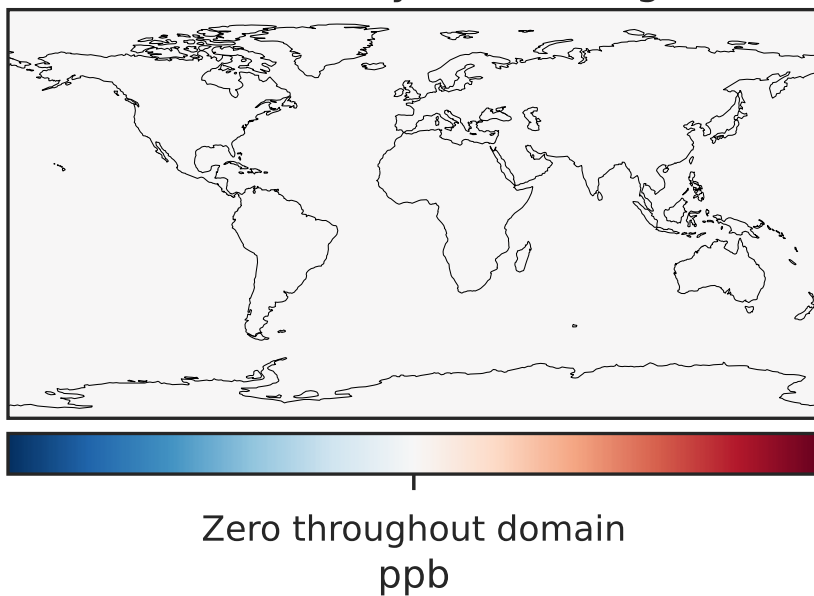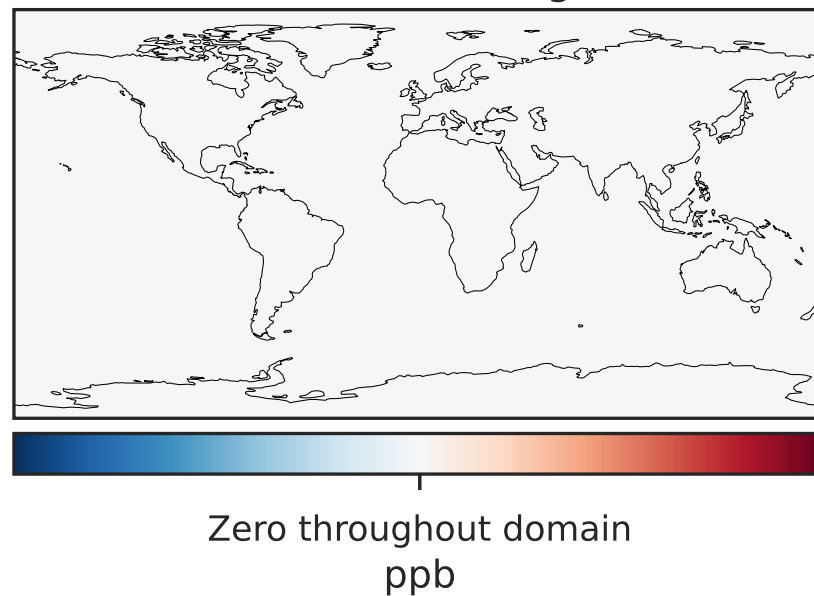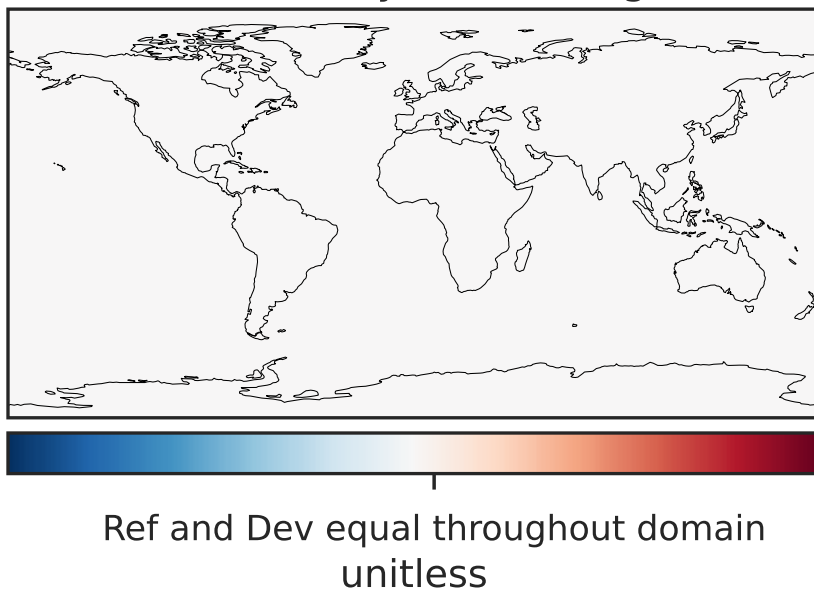
Difference
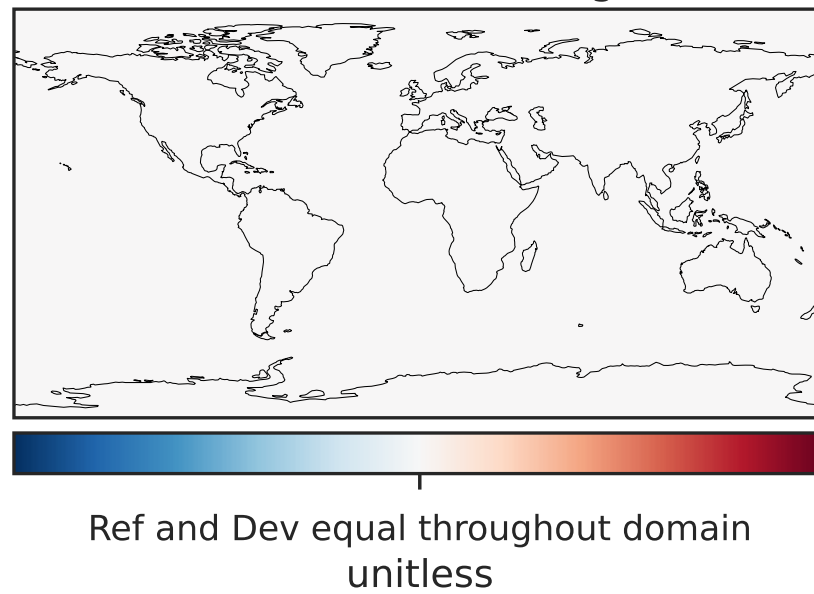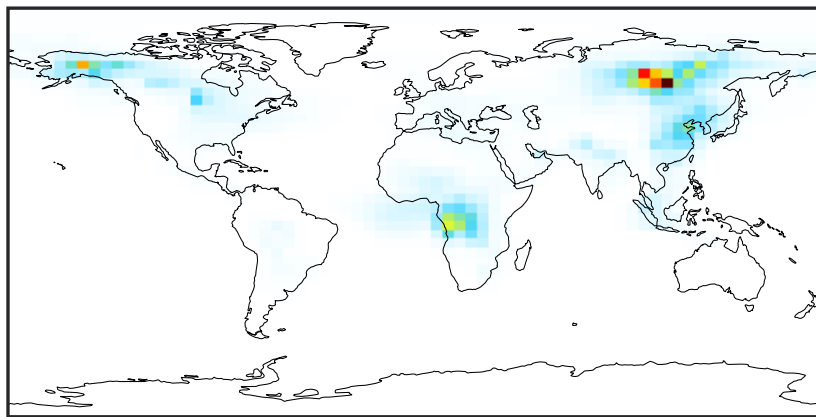Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
ppb

Zero throughout domain
ppb

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

SpeciesConcVV_BZPAN

gcc-4x5-1Mon-14.3.0-alpha.6 (Ref)
4.0x5.0

ppb

gcc-4x5-1Mon-14.3.0-alpha.7 (Dev)
4.0x5.0

ppb

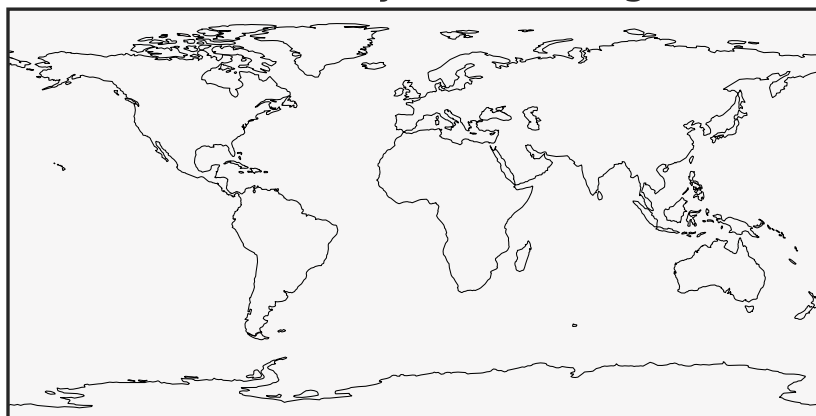## Difference
Dev - Ref, Dynamic Range

Zero throughout domain
ppb

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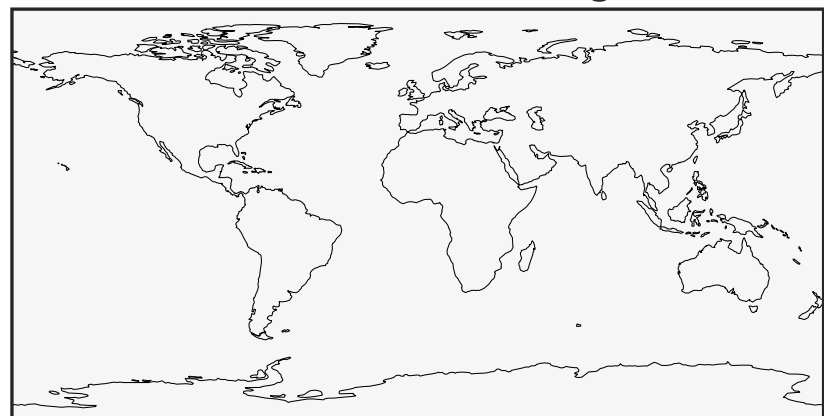### Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
ppb

Ratio
Dev/Ref, Dynamic Range

Ref and Dev equal throughout domain
unitless
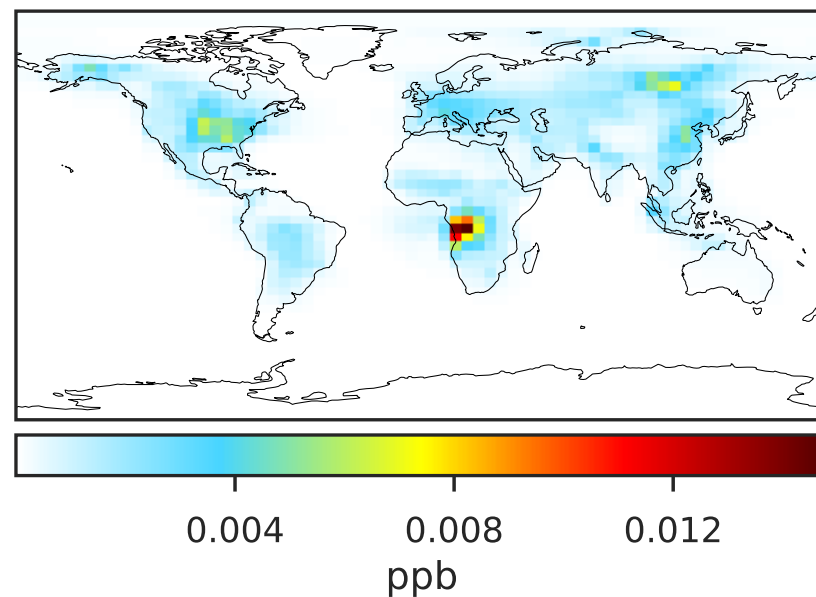
Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

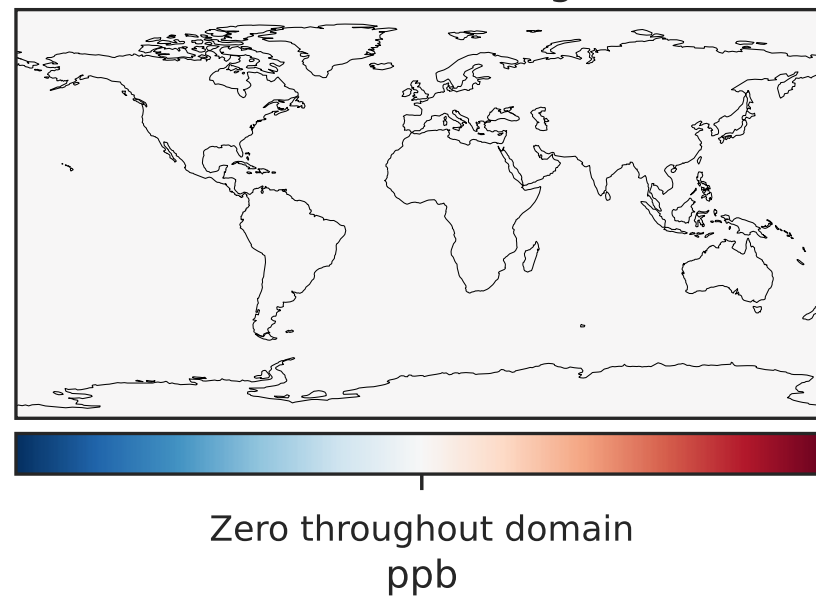# SpeciesConcVV_NPHEN

gcc-4x5-1Mon-14.3.0-alpha.6 (Ref)
4.0x5.0
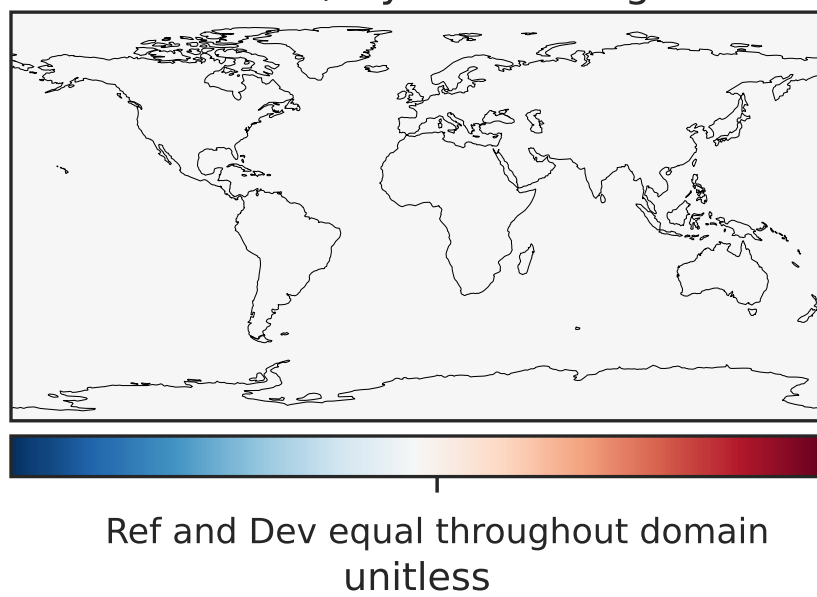
gcc-4x5-1Mon-14.3.0-alpha.7 (Dev)
4.0x5.0

ppb

ppb

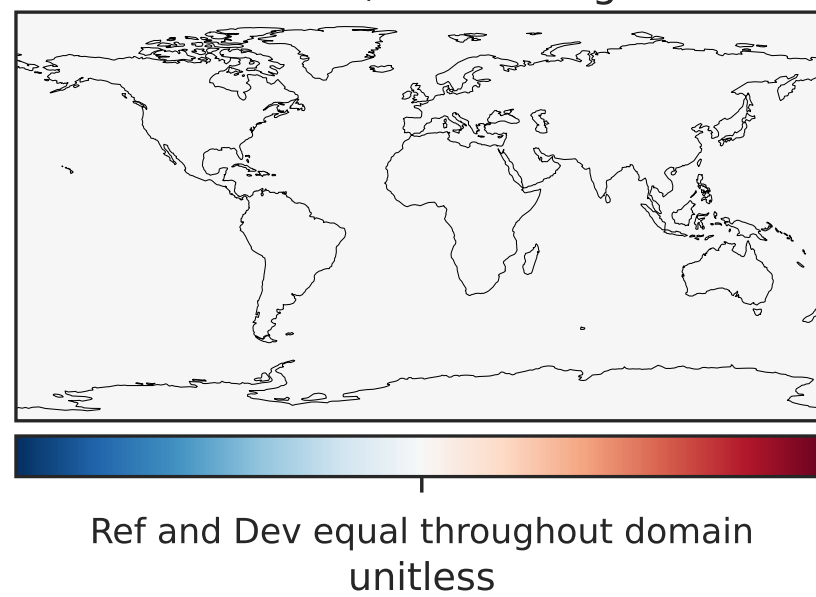Difference
Dev - Ref, Dynamic Range
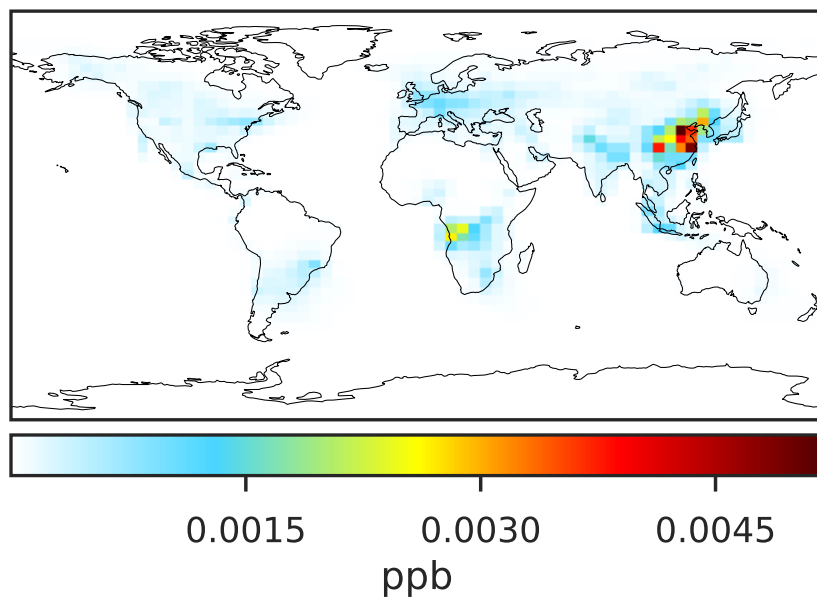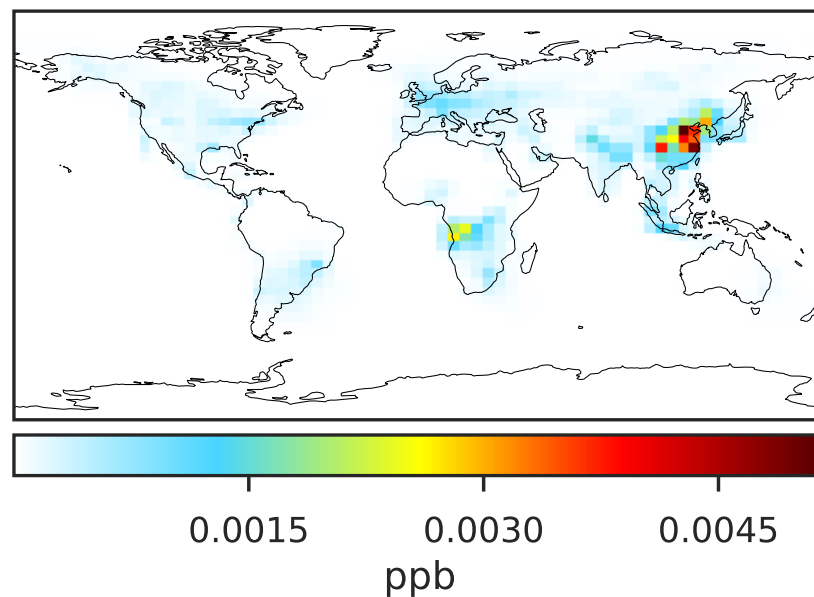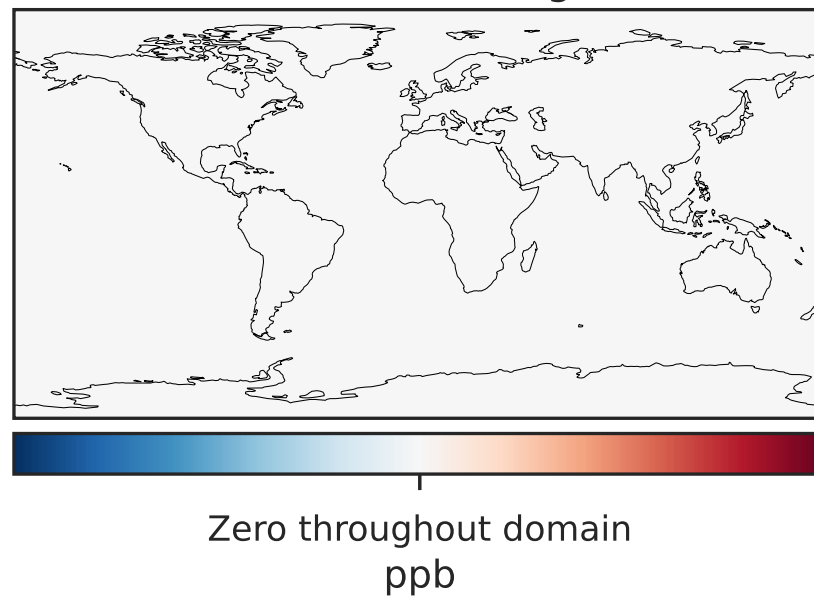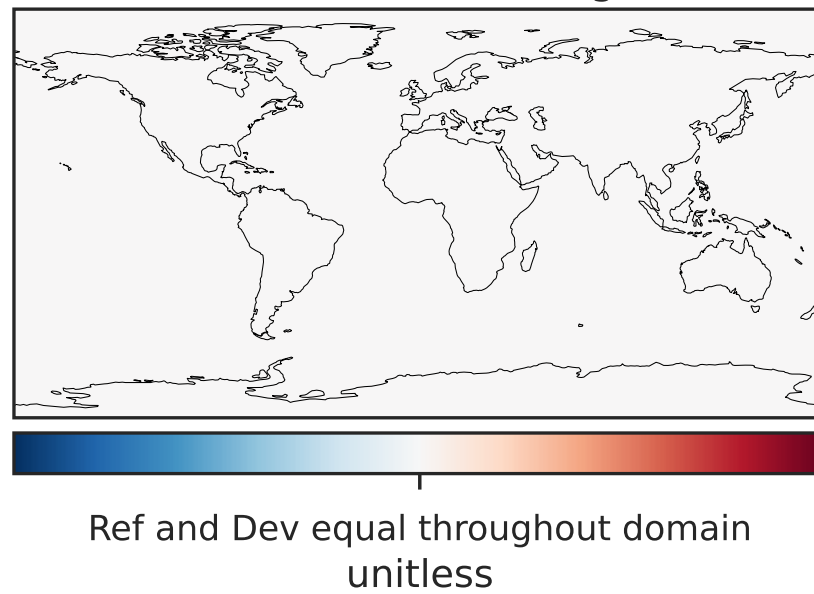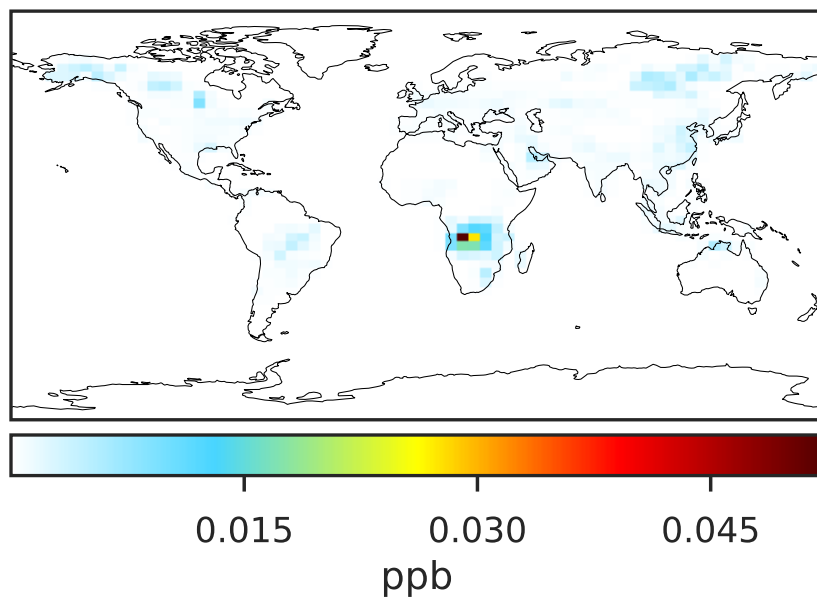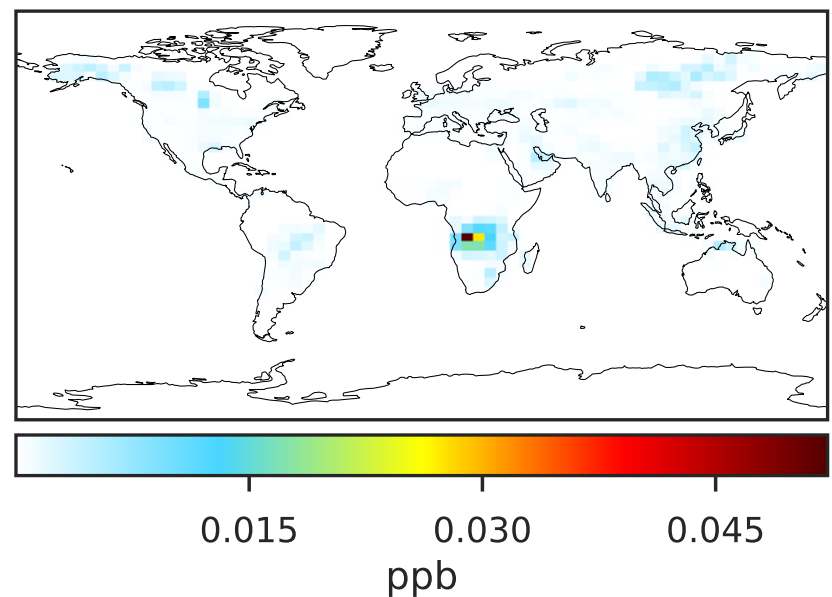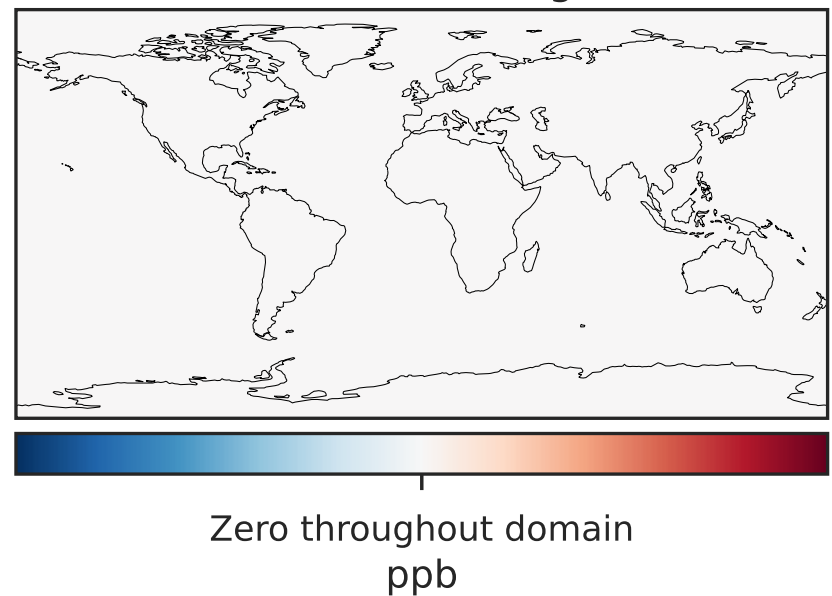
Difference
Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
ppb

Zero throughout domain
ppb

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless