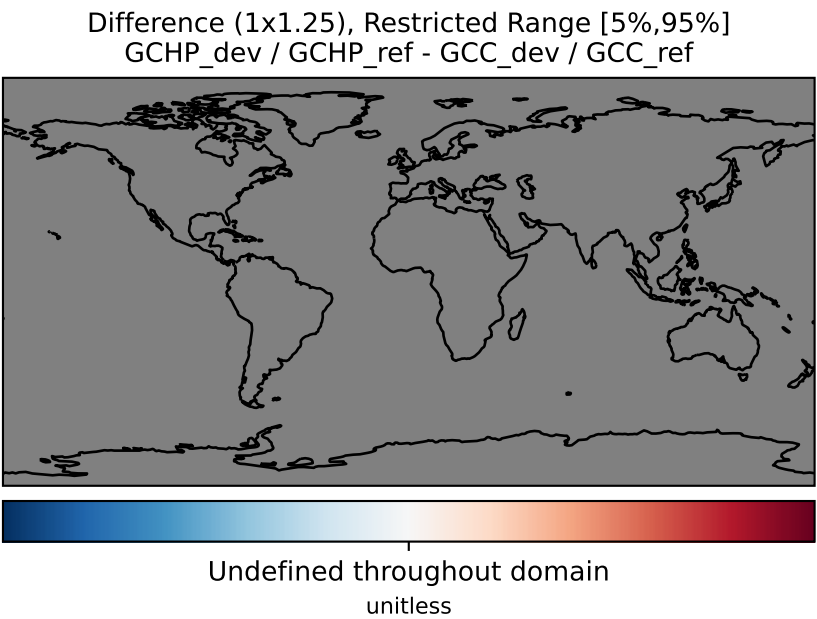
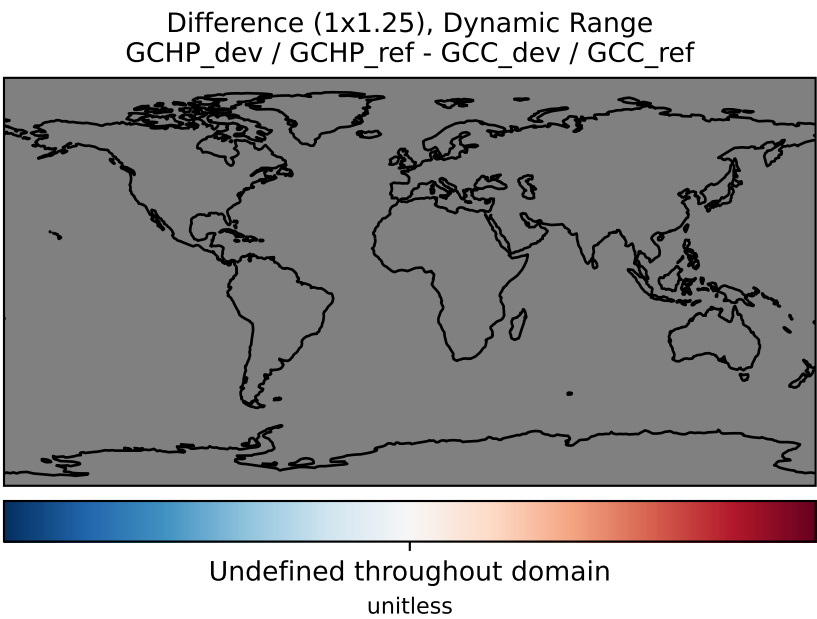
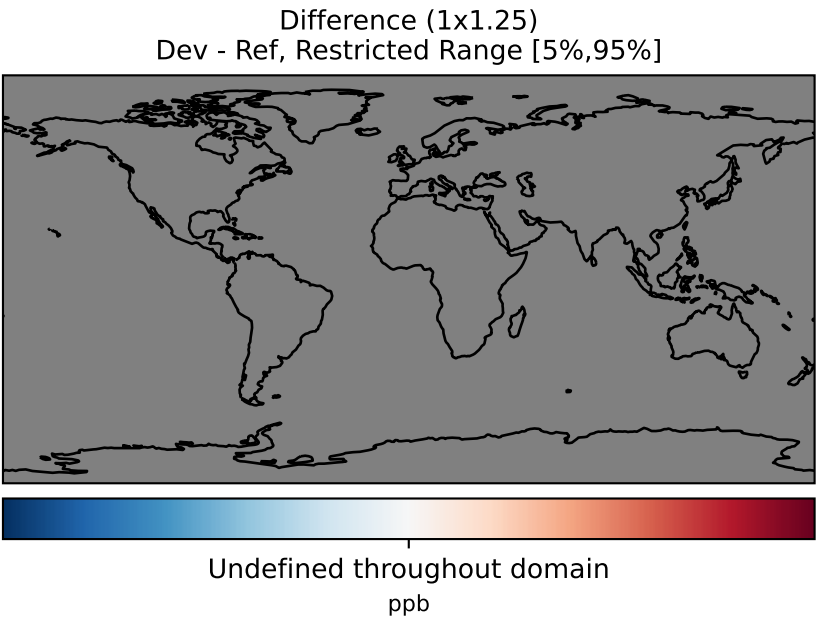
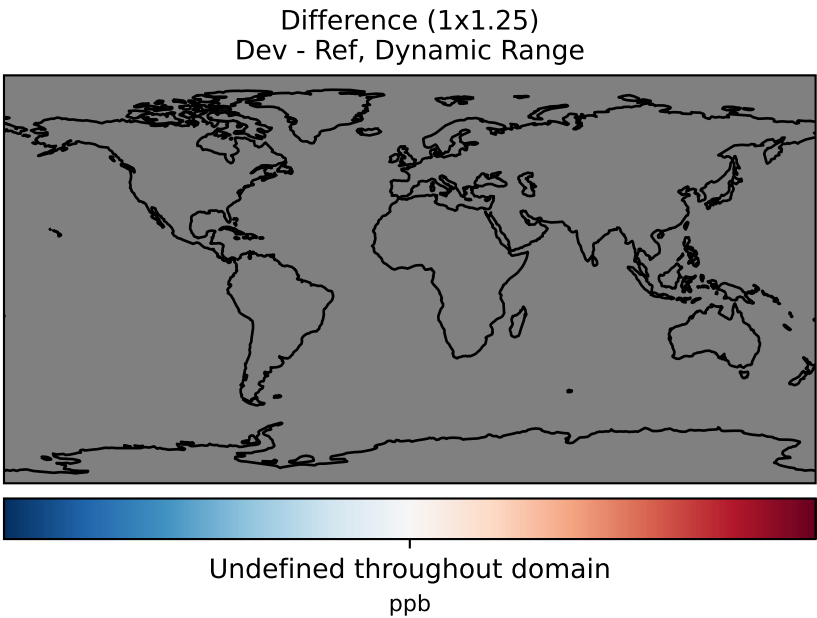
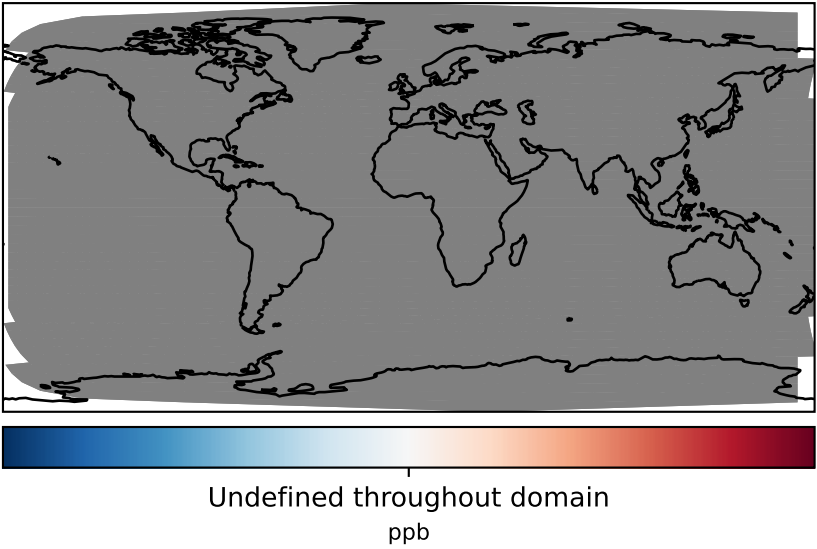
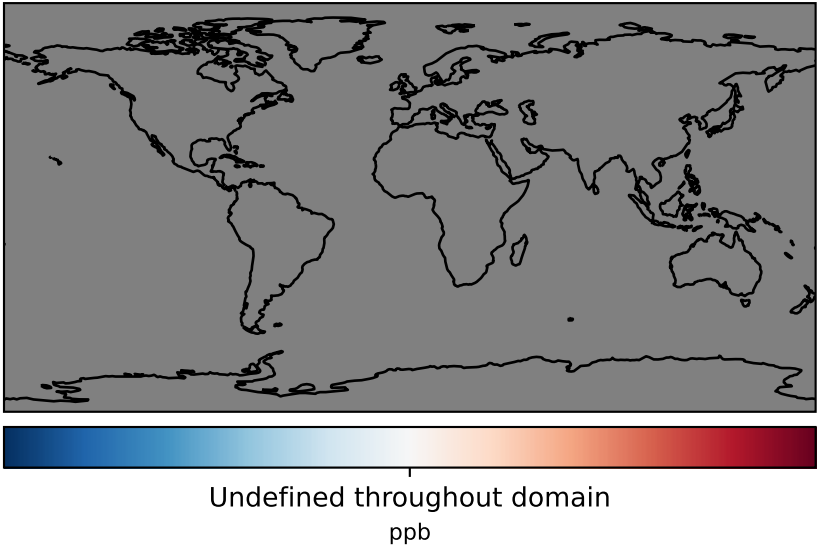


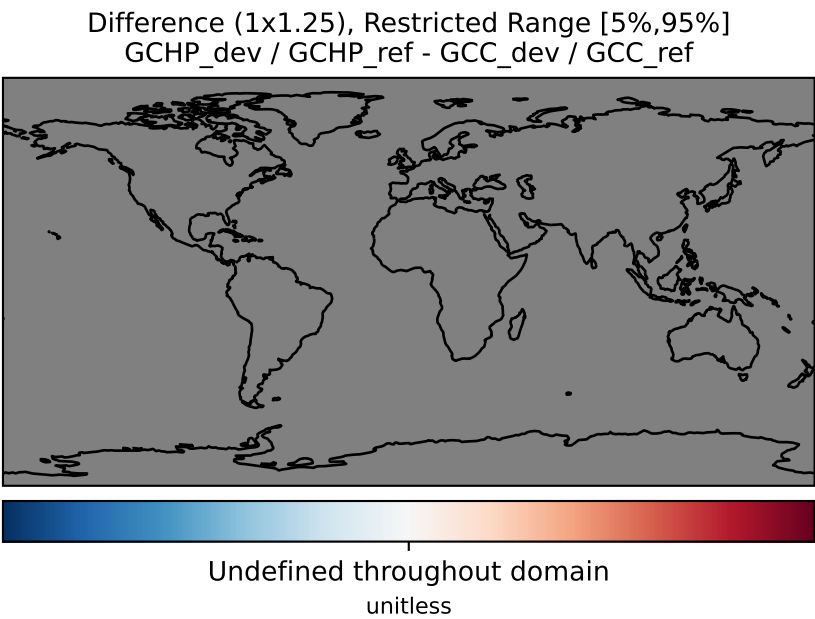
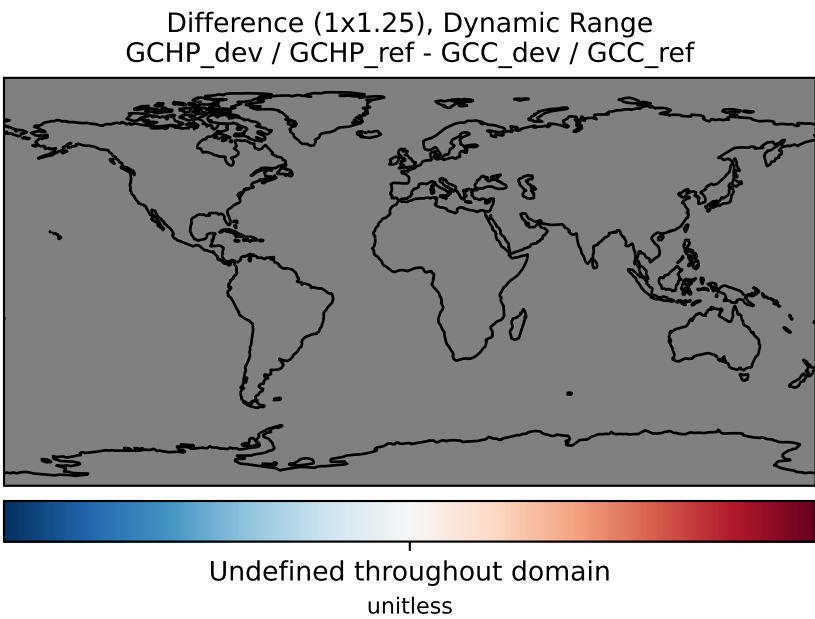
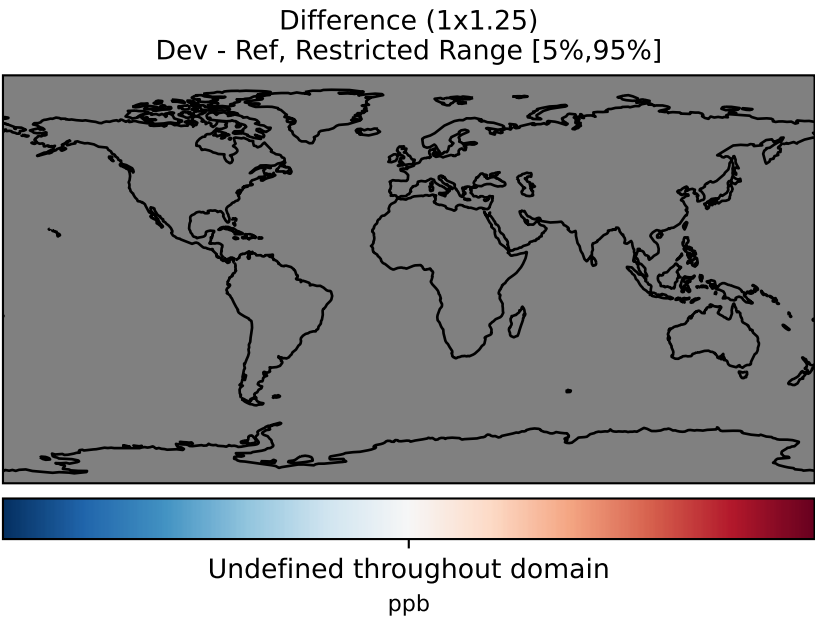
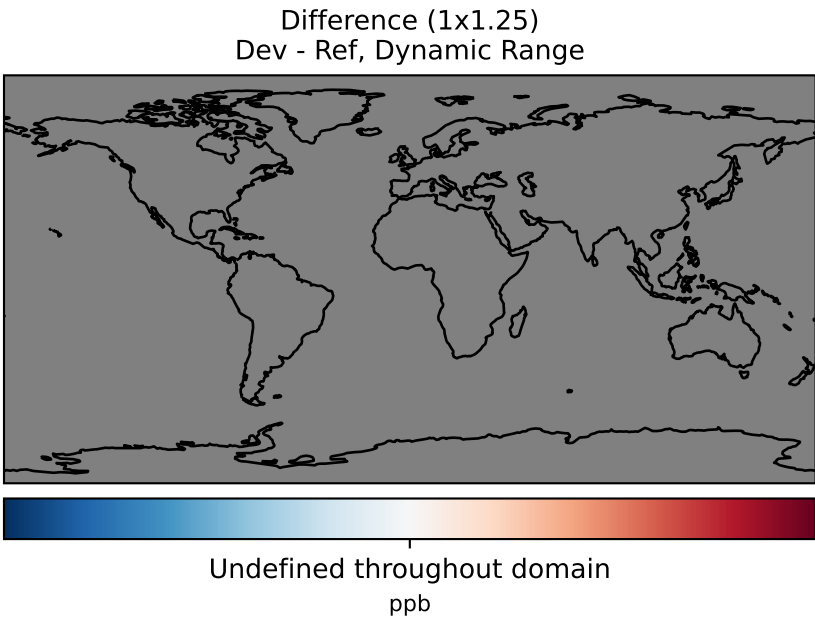
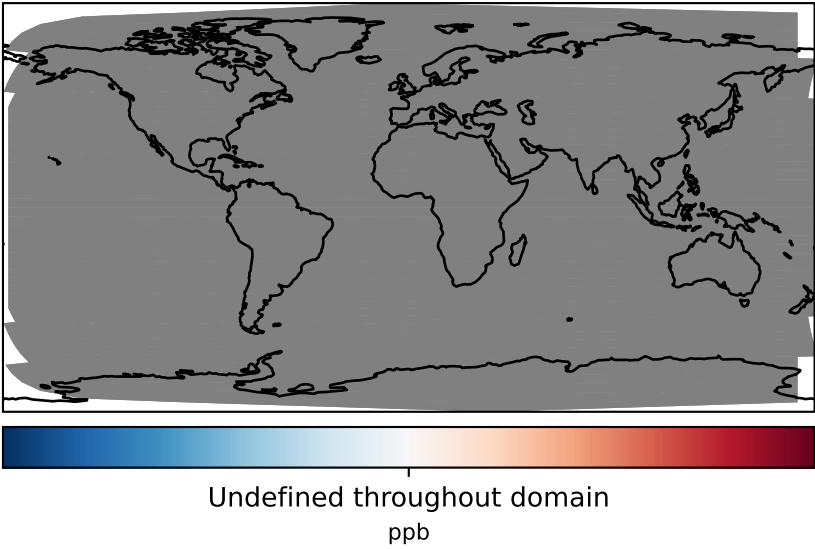
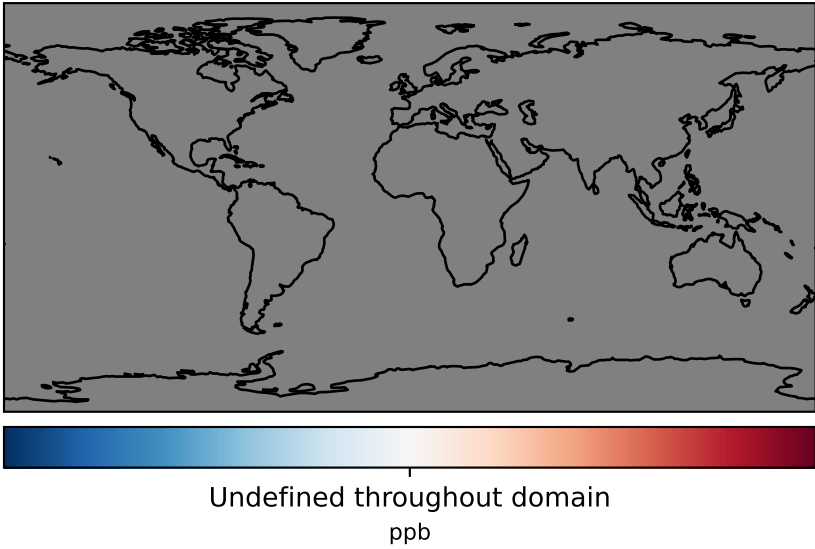
SpeciesConcVV_DST1

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



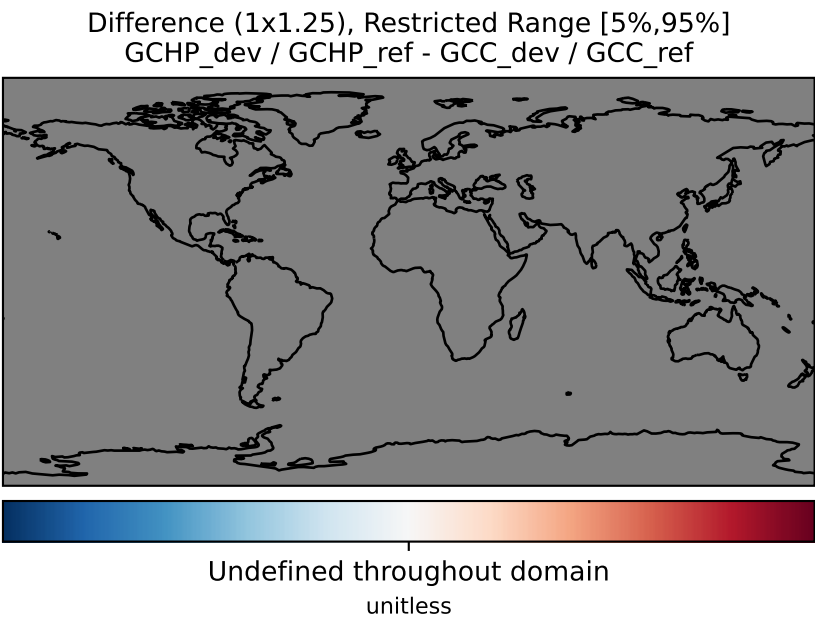
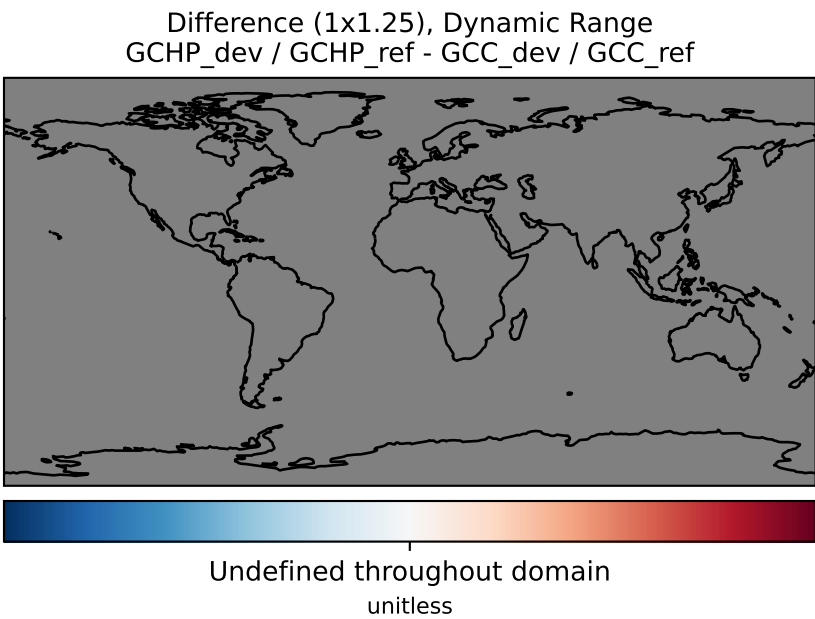
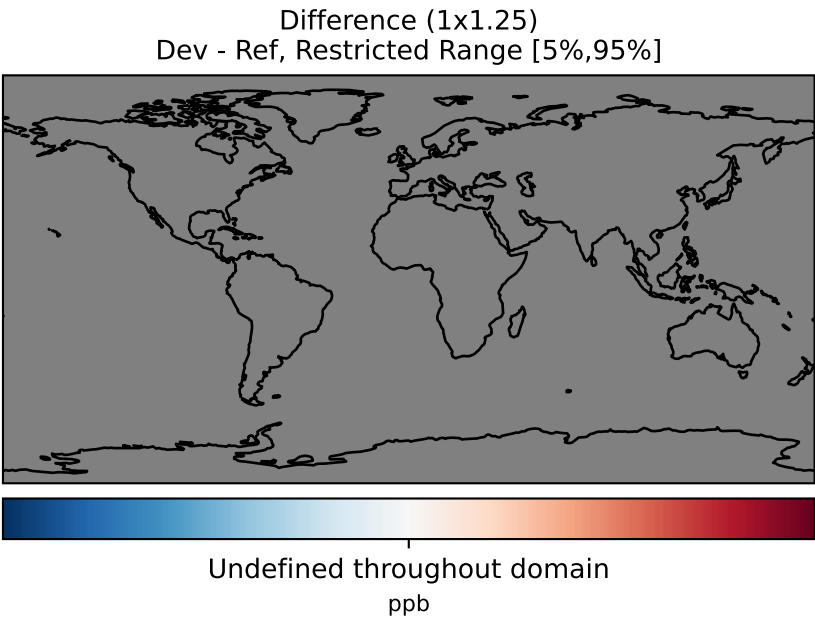
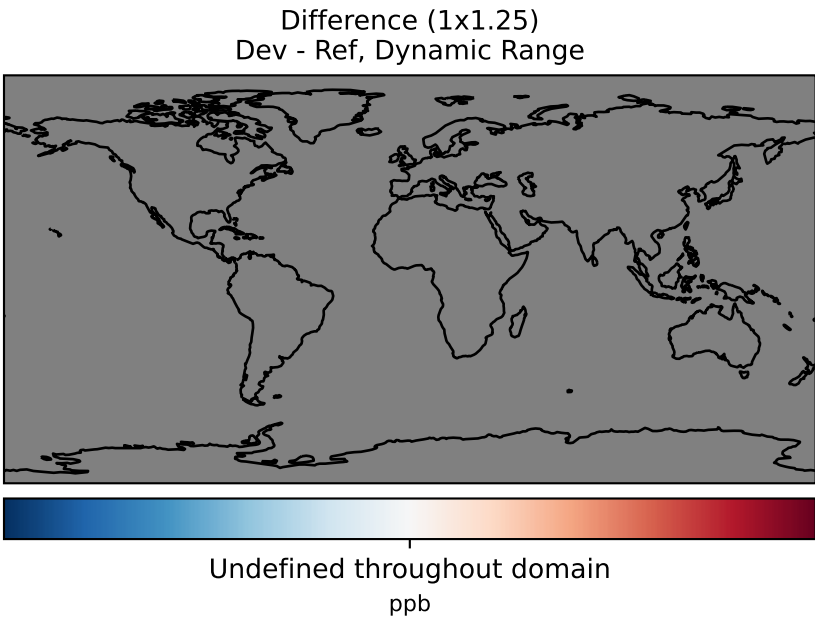
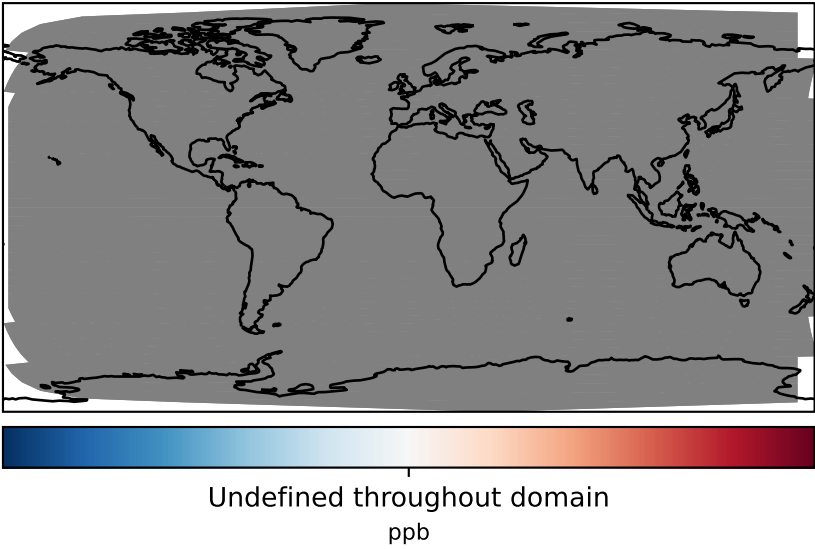
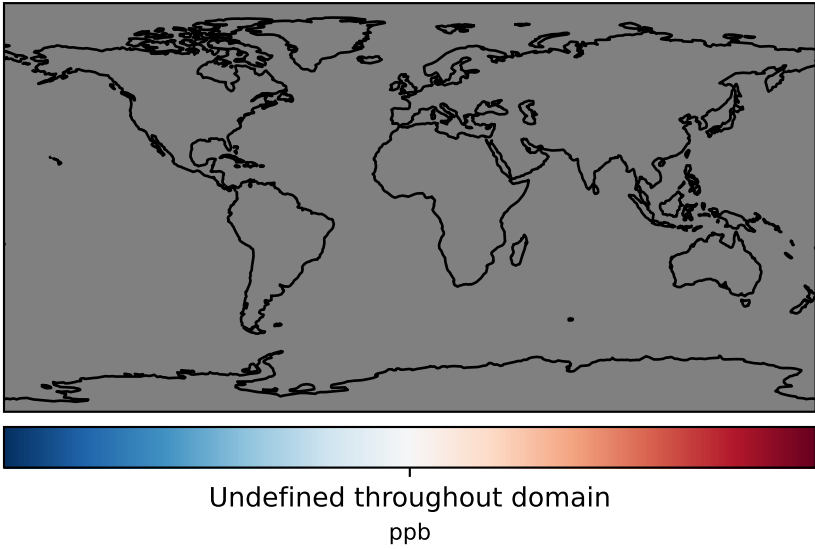
SpeciesConcVV_DST2

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



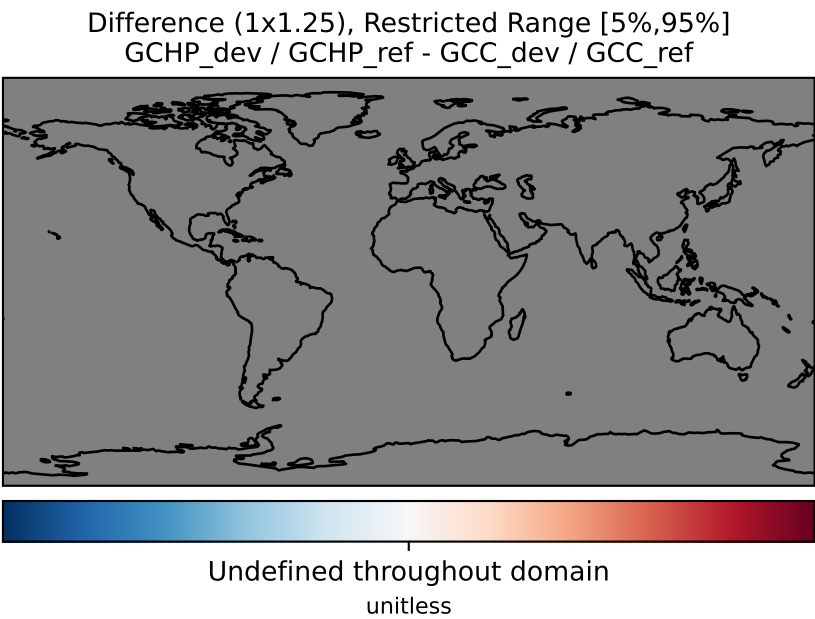
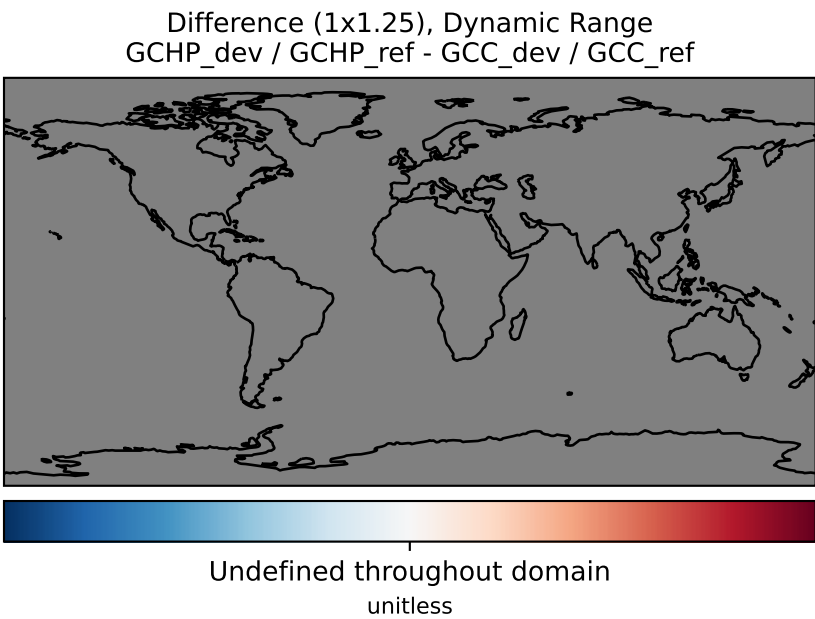
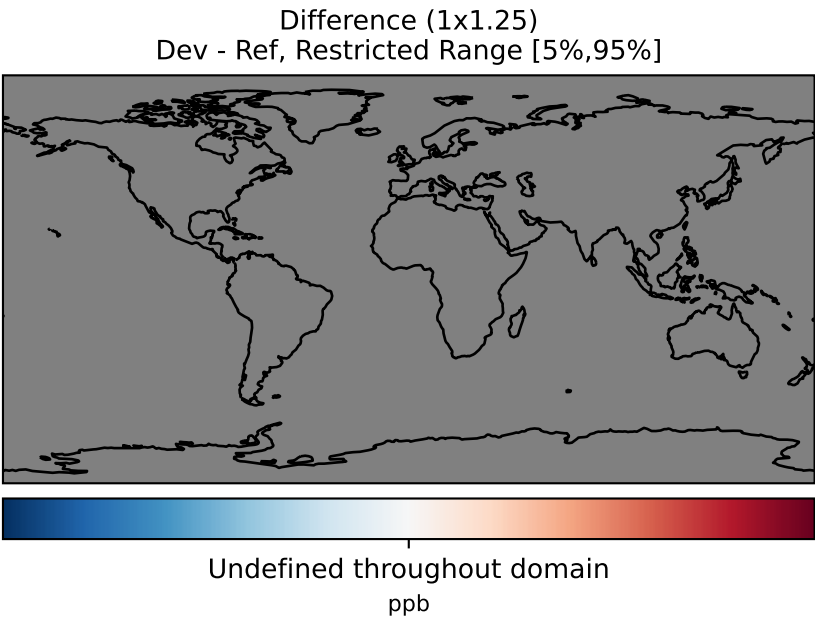
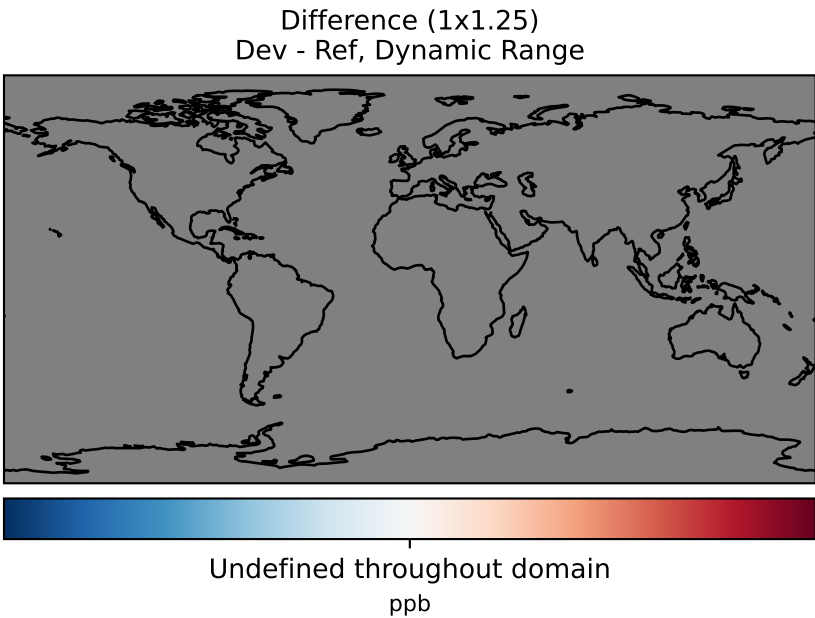
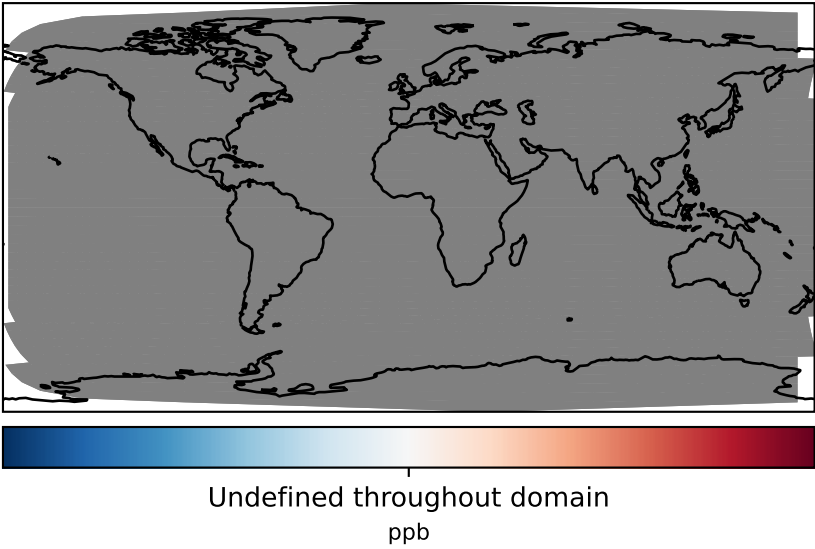
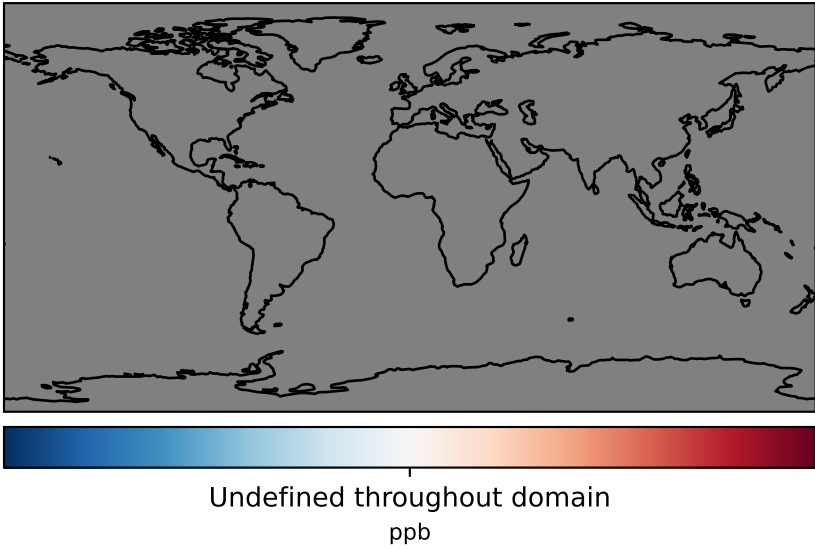
SpeciesConcVV_DST3

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



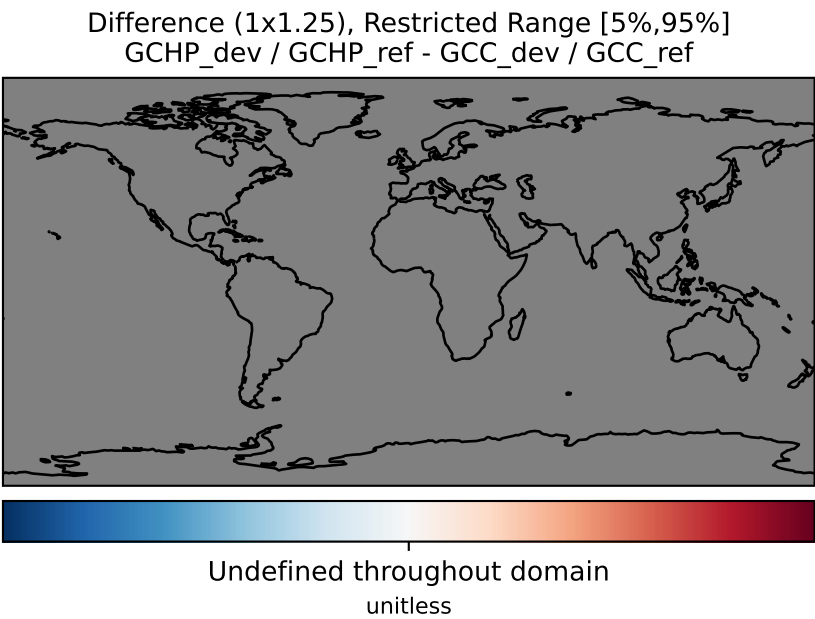
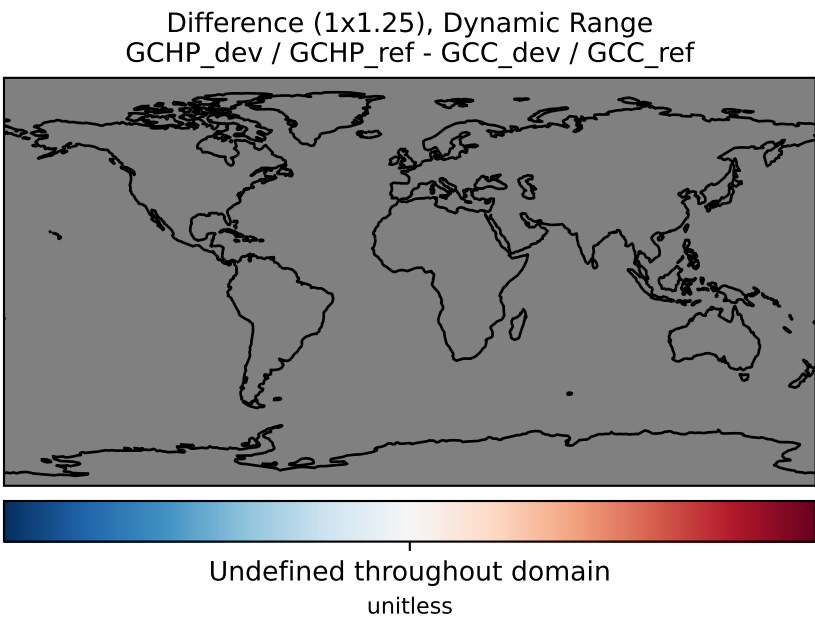
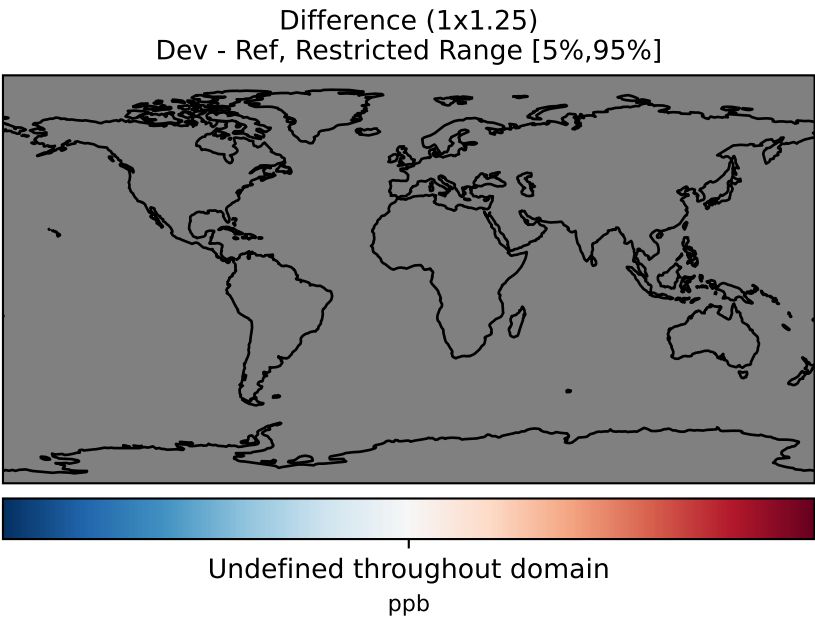
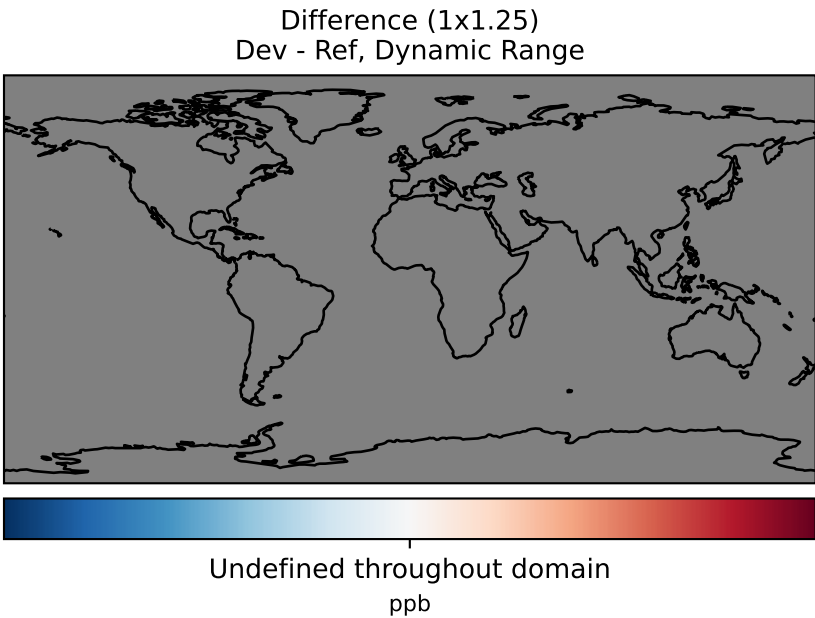
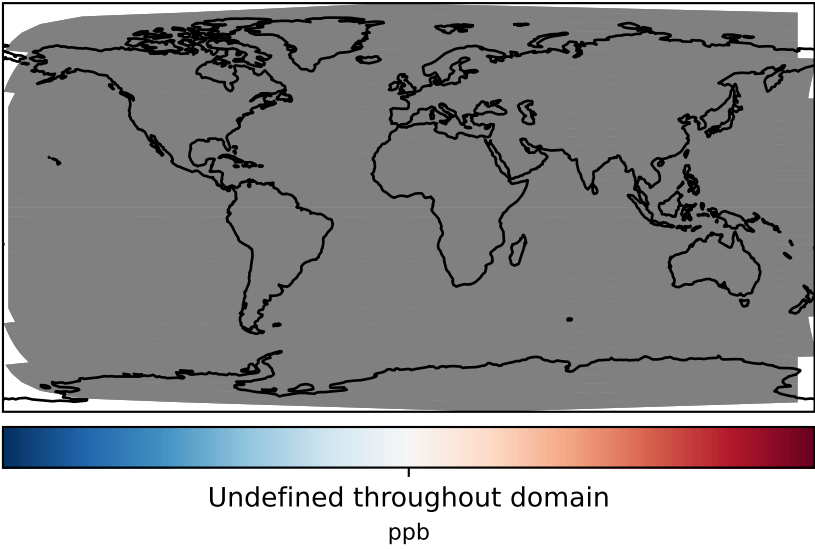
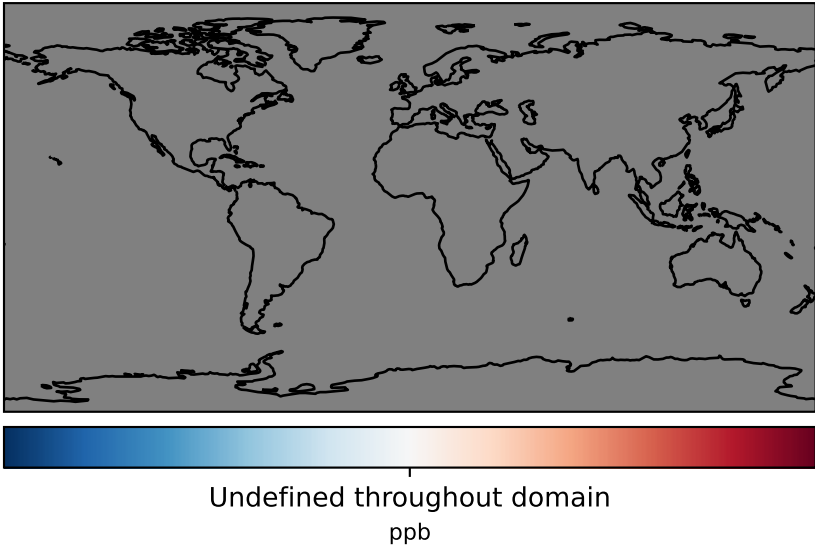
SpeciesConcVV_DST4

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



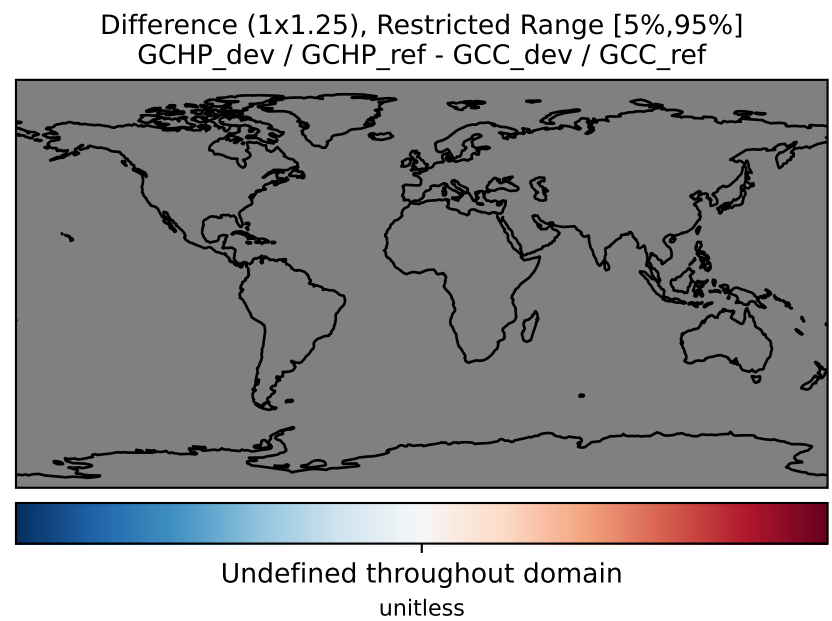
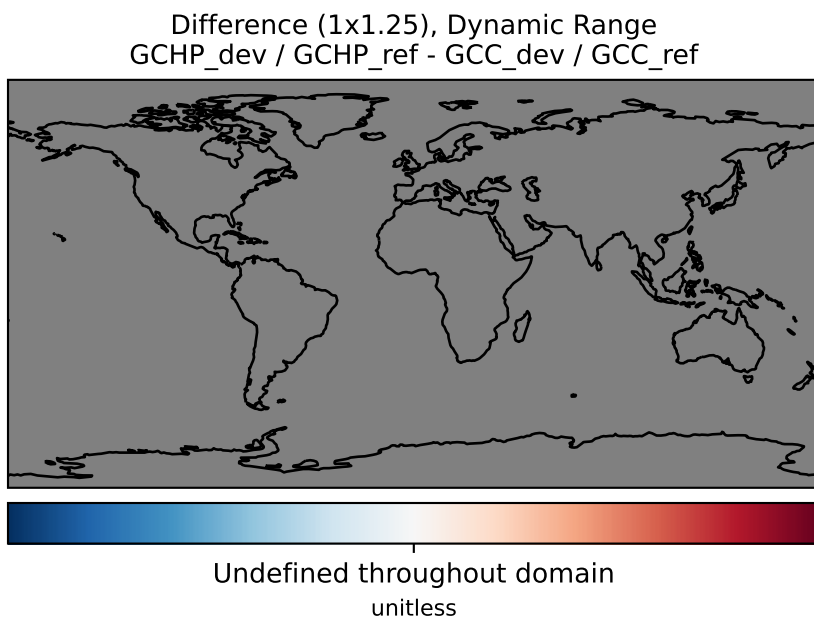
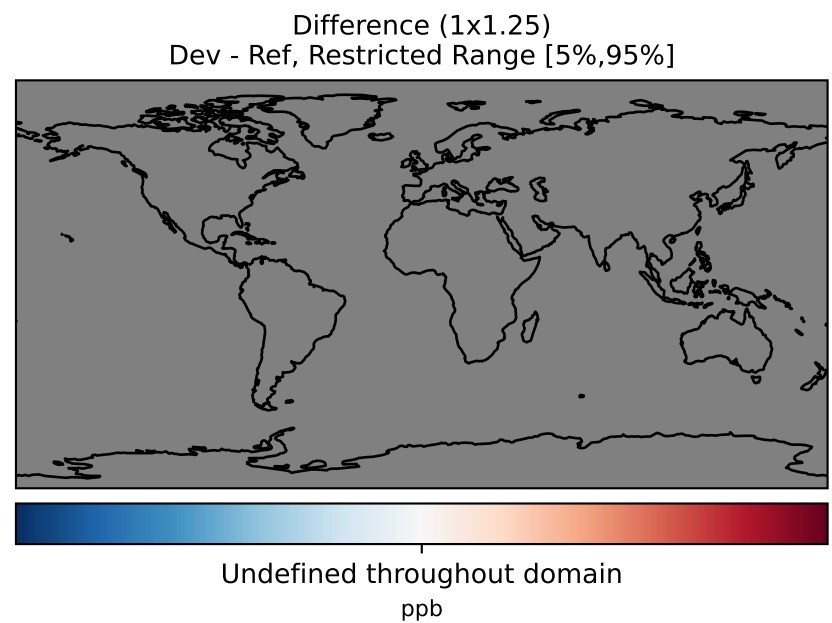
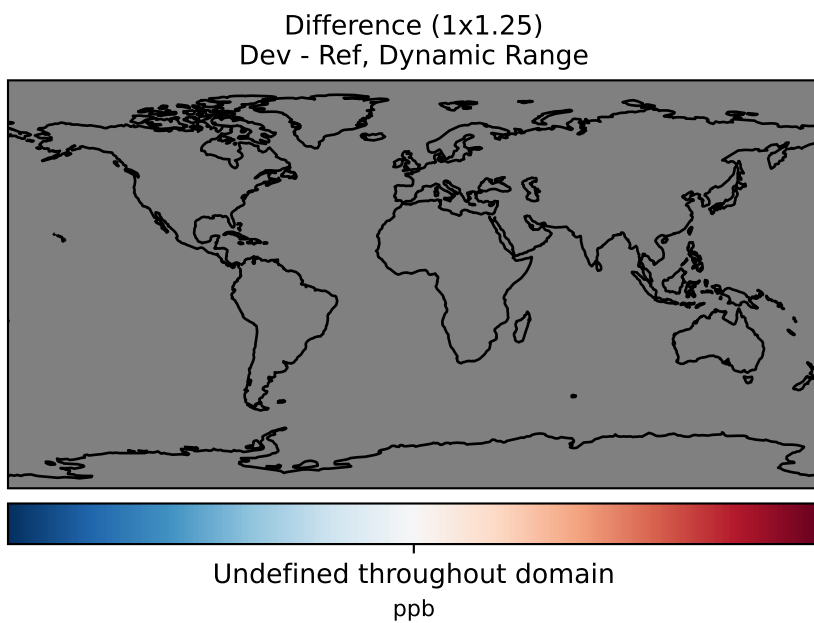
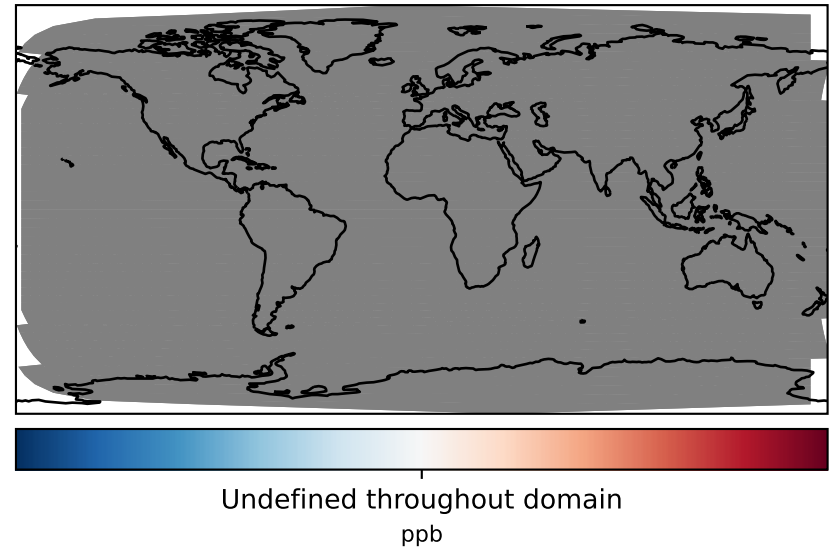
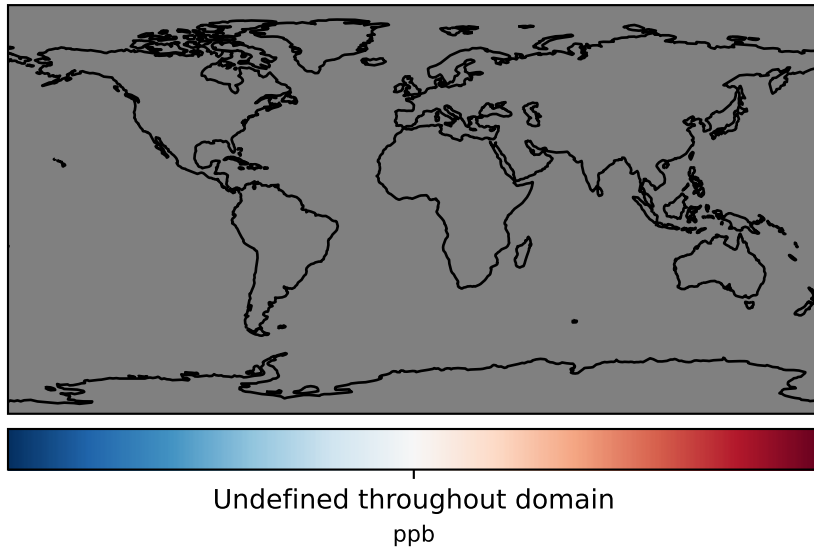
SpeciesConcVW_DSTbin1

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



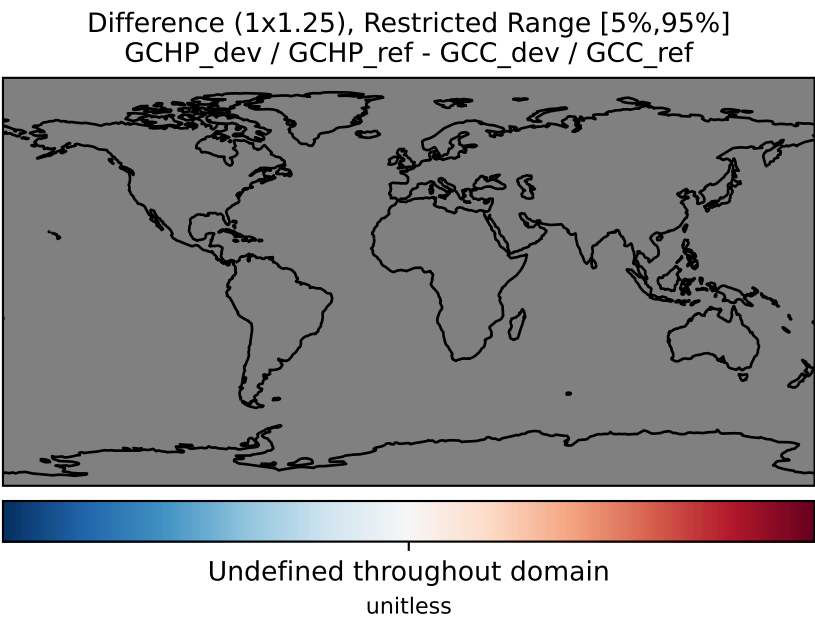
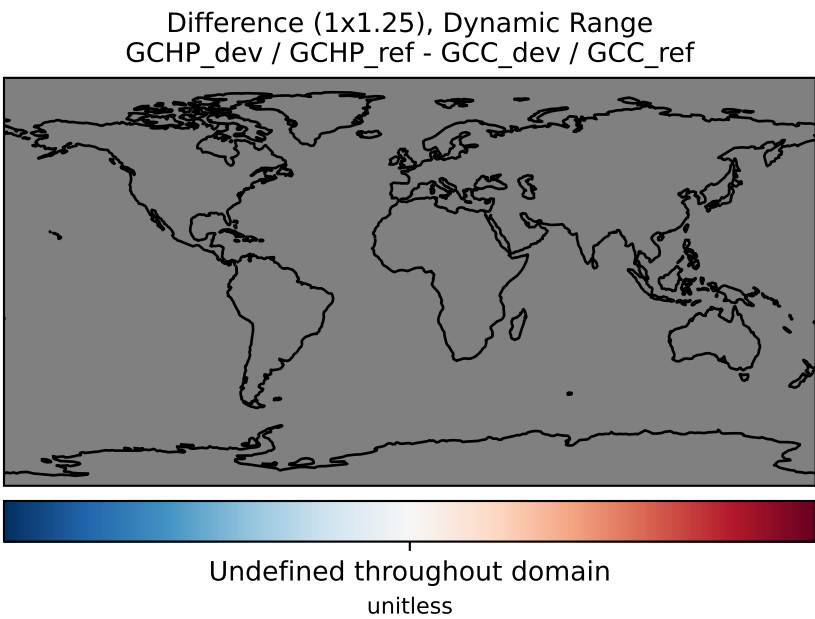
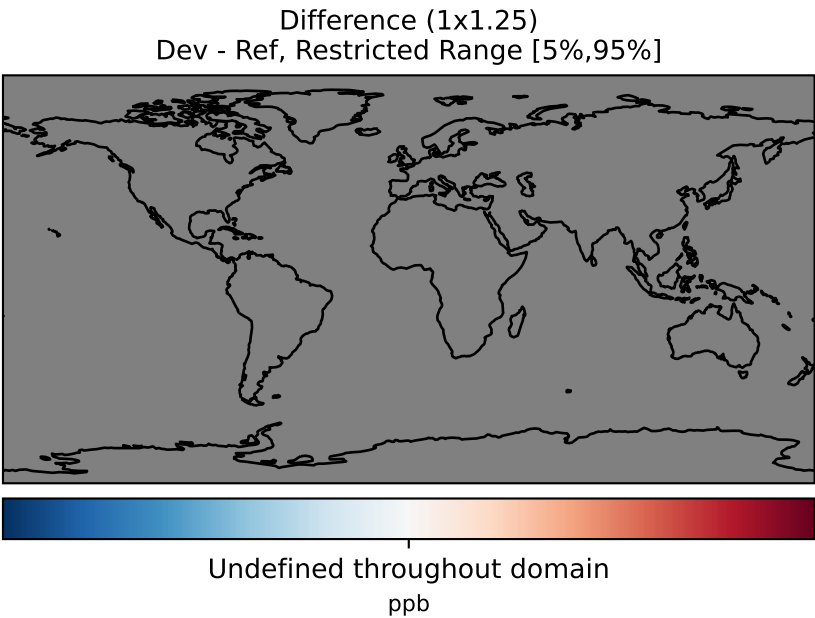
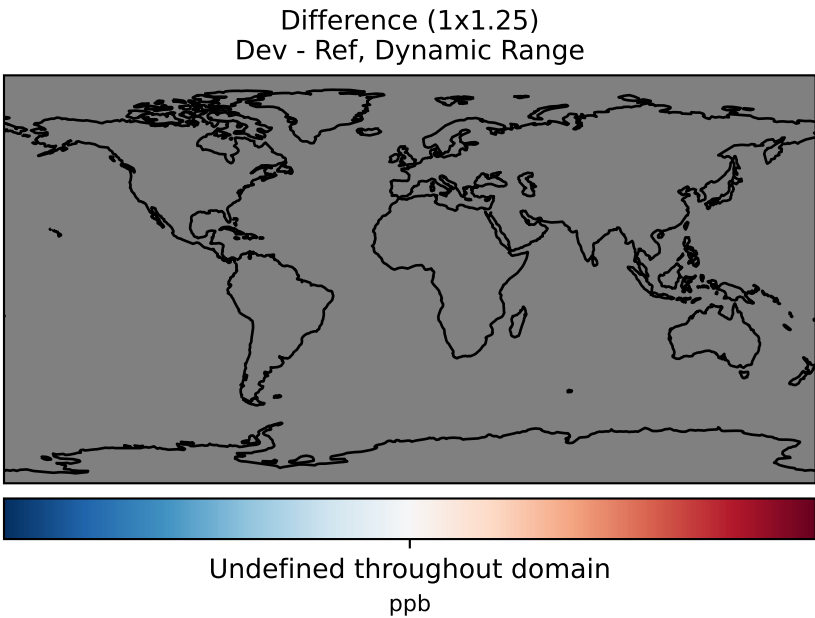
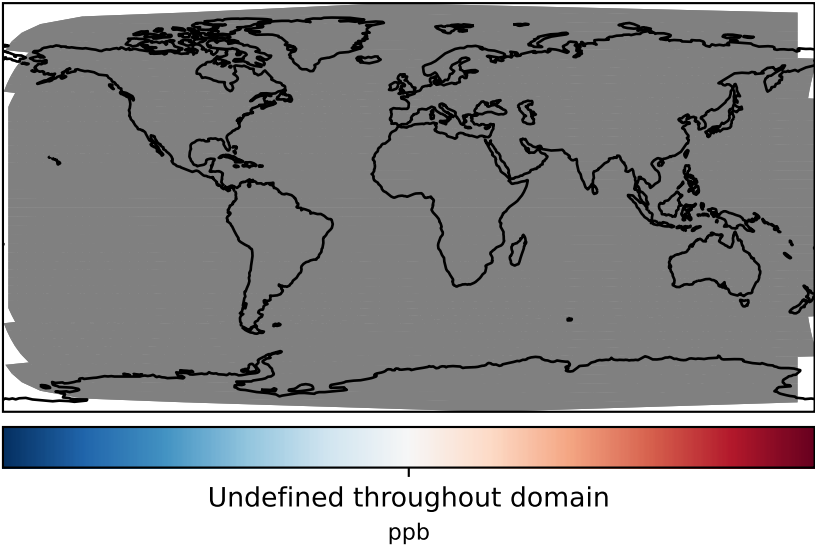
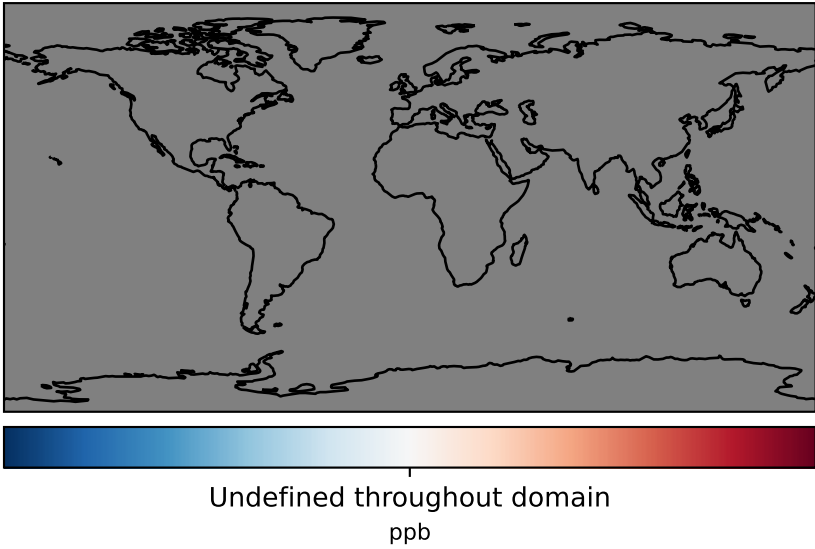
SpeciesConcVW_DSTbin2

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



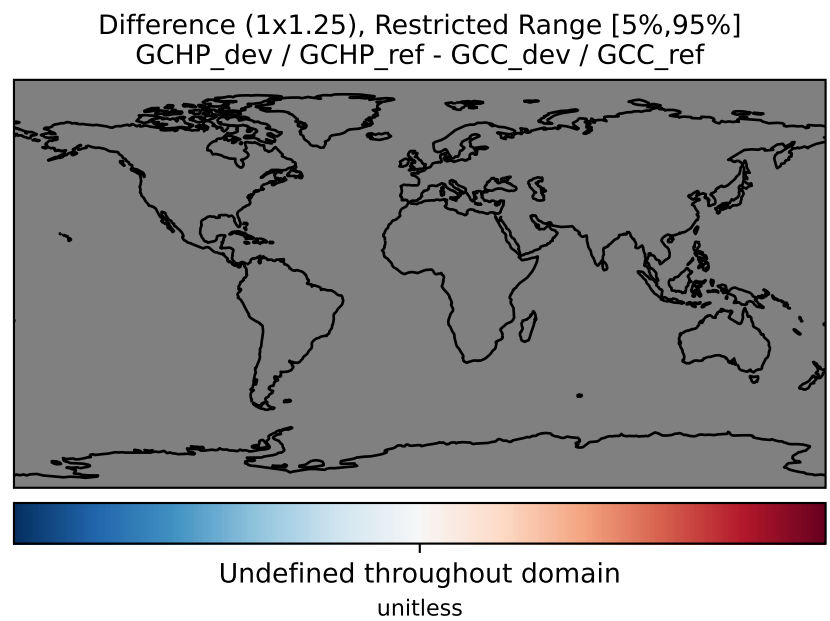
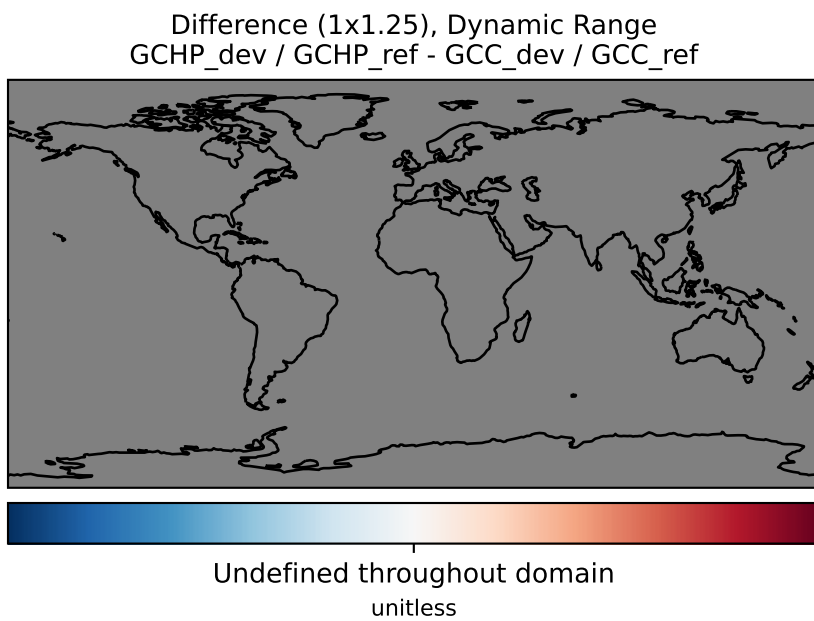
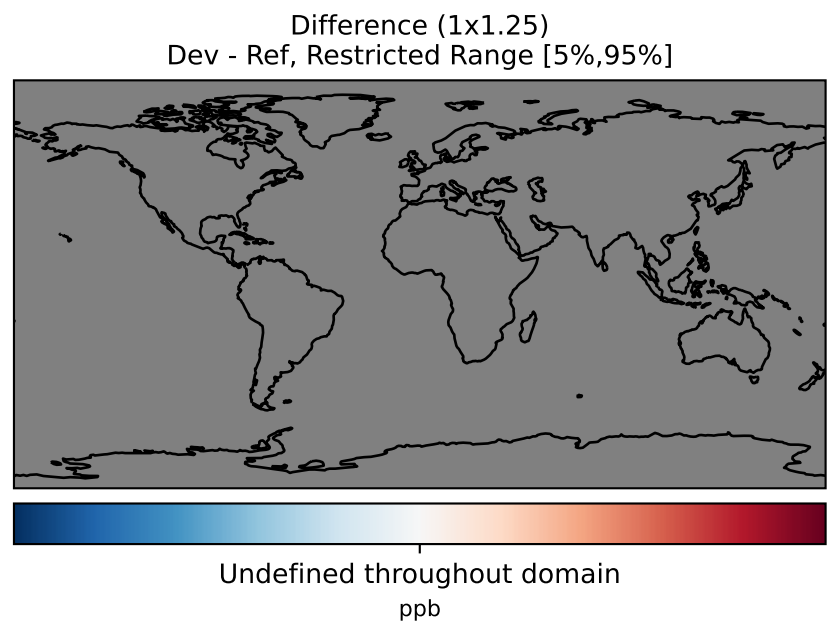
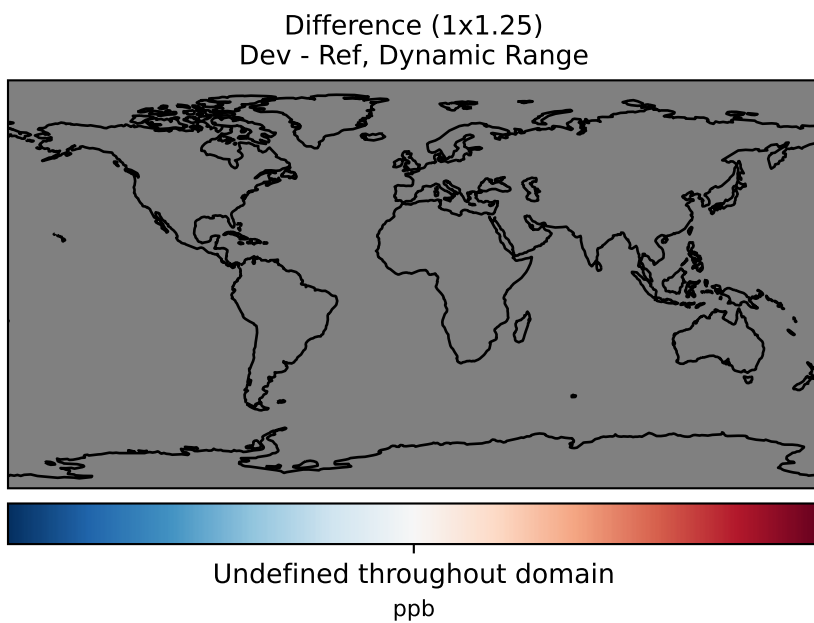
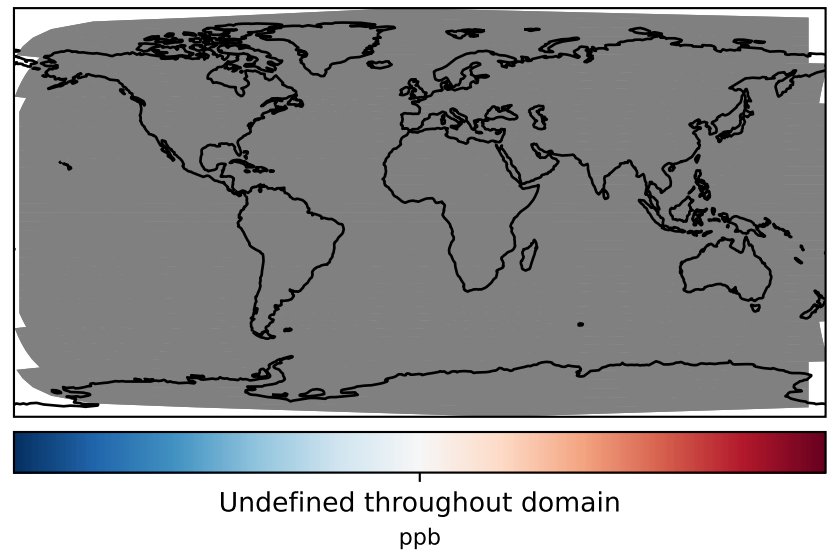
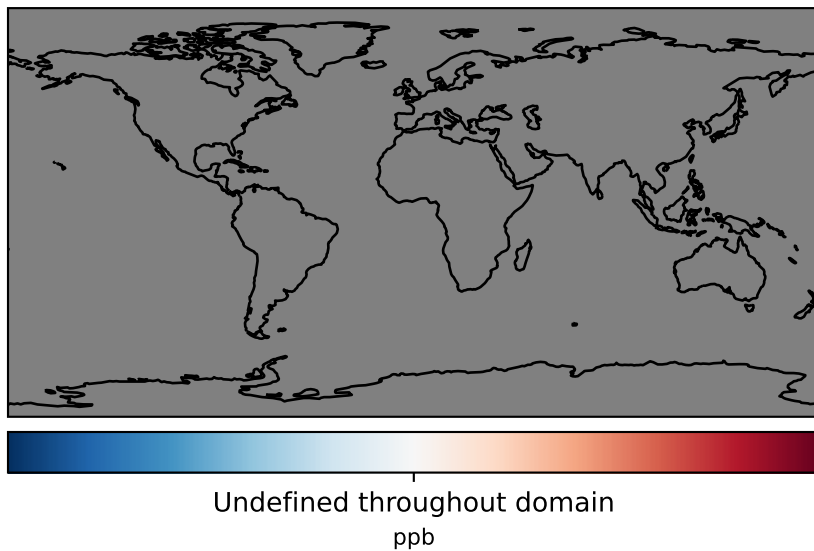
SpeciesConcVW_DSTbin3

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



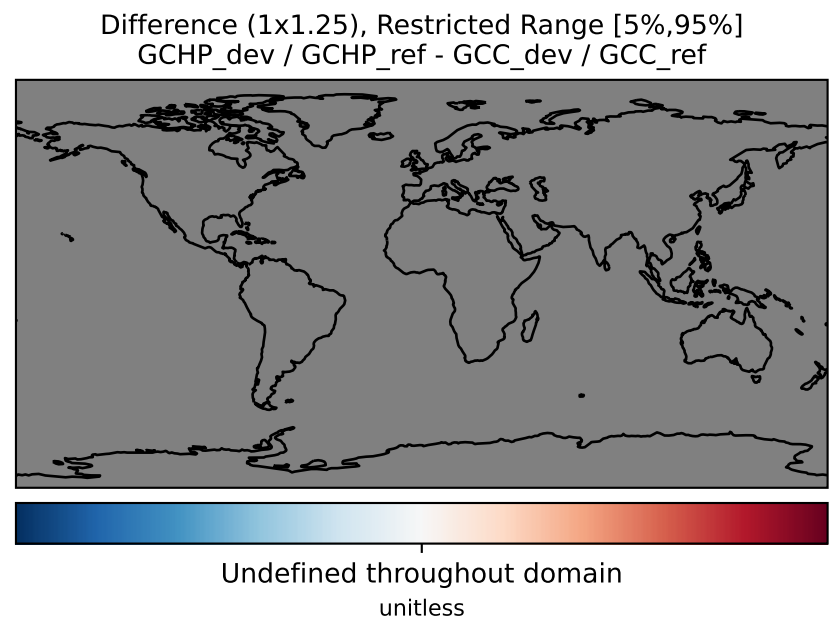
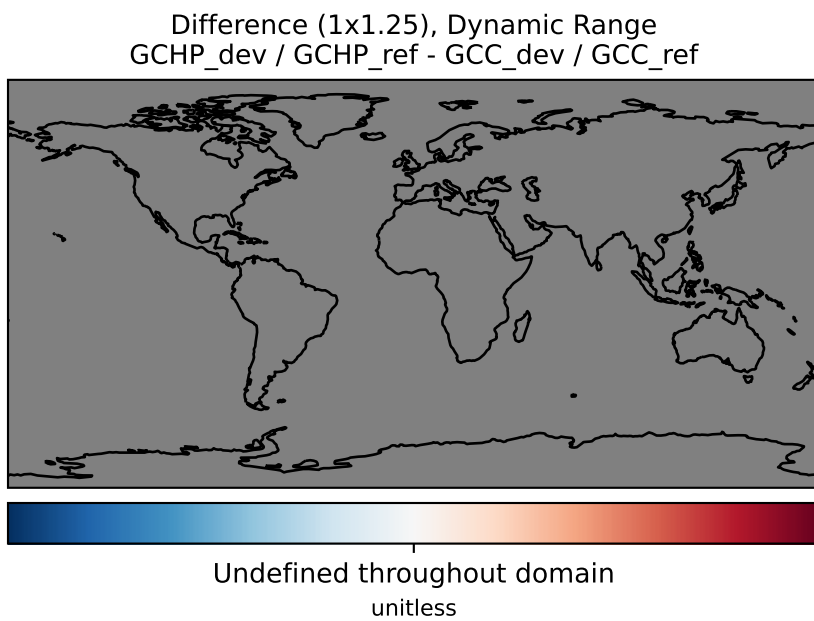
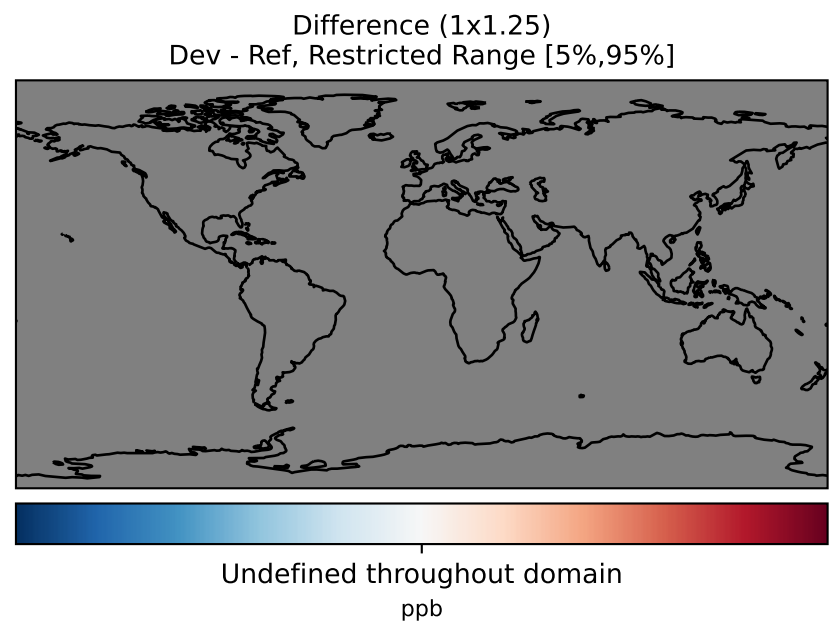
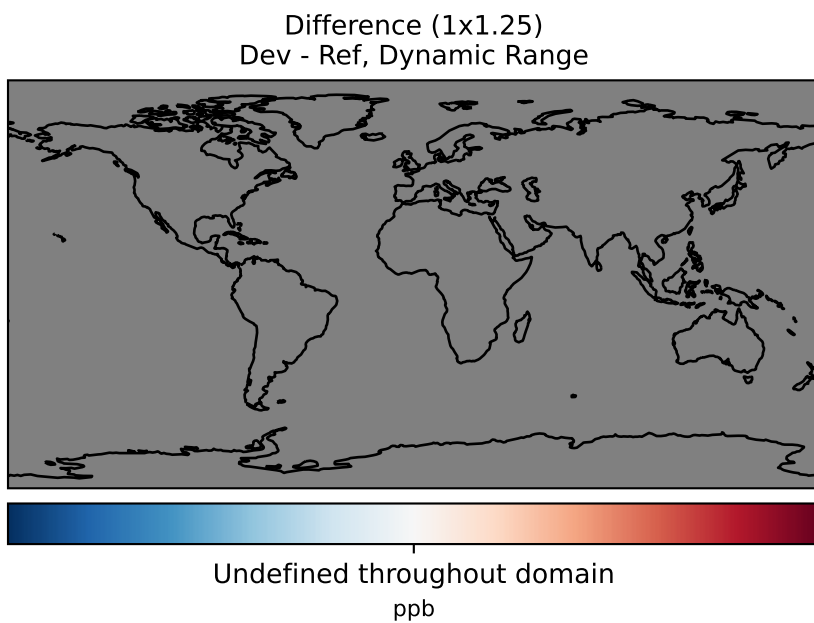
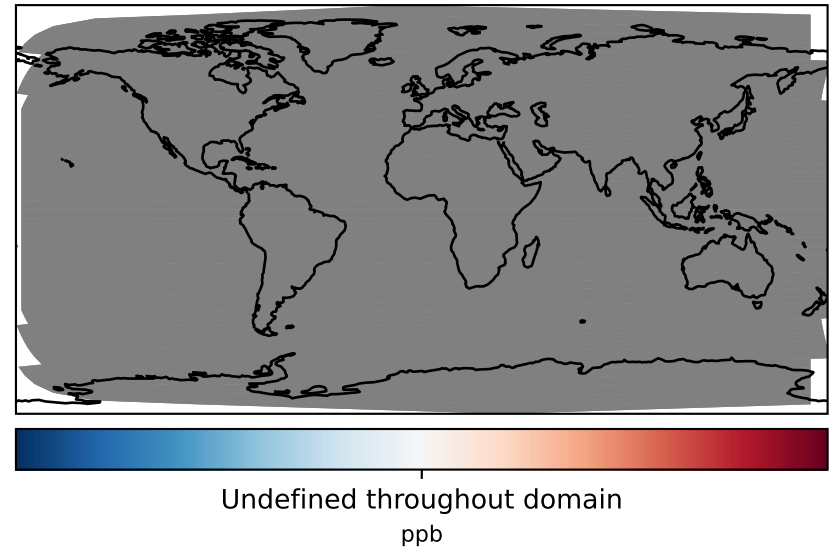
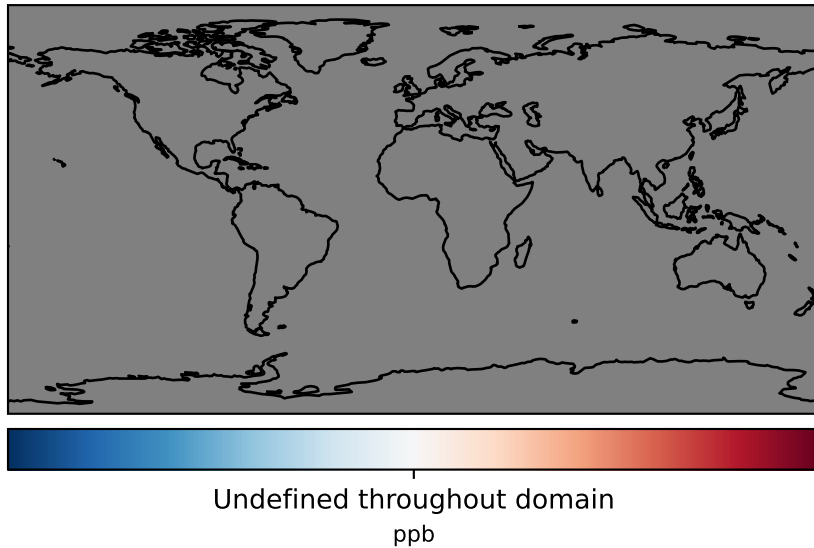
SpeciesConcVW_DSTbin4

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



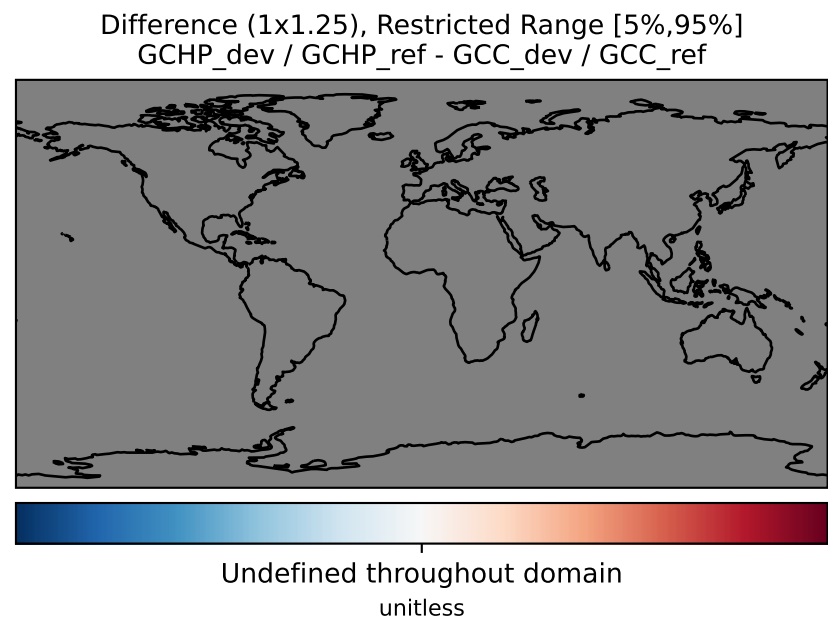
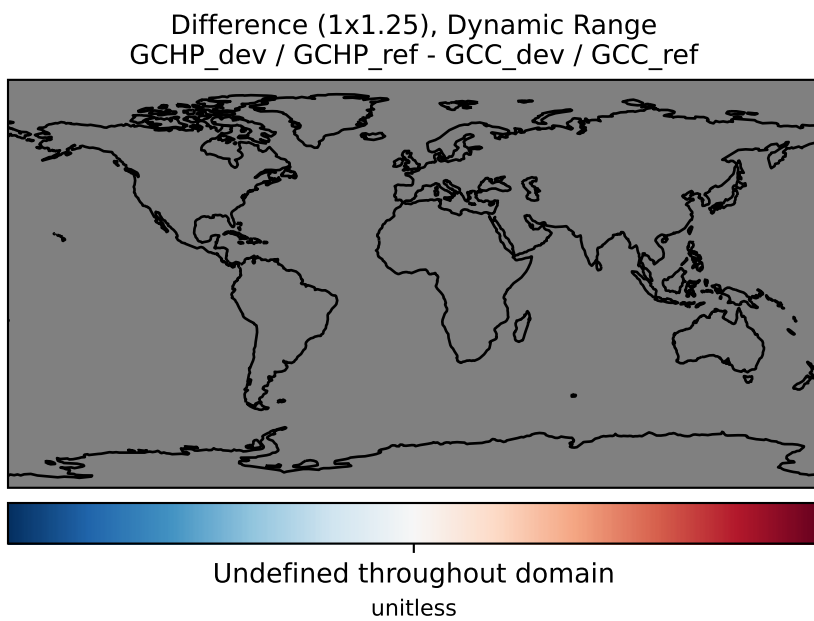
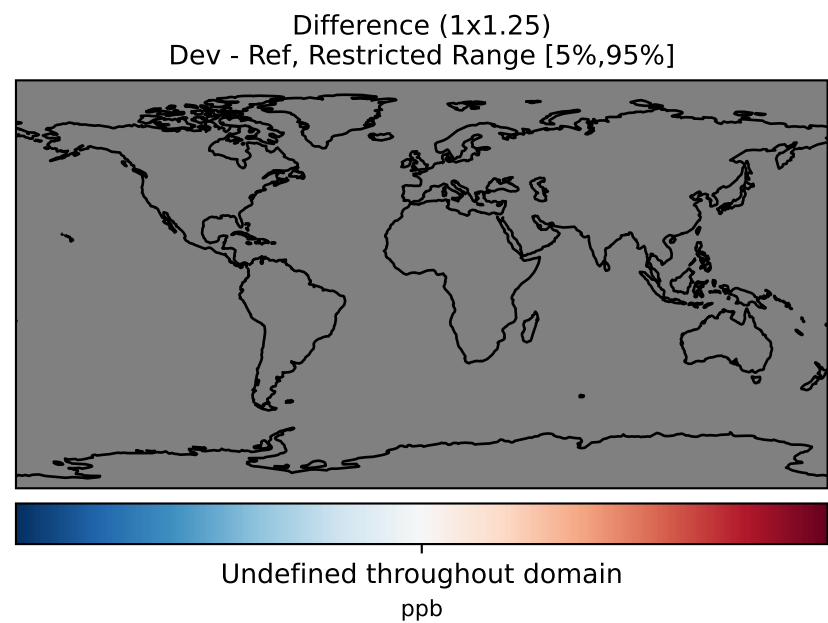
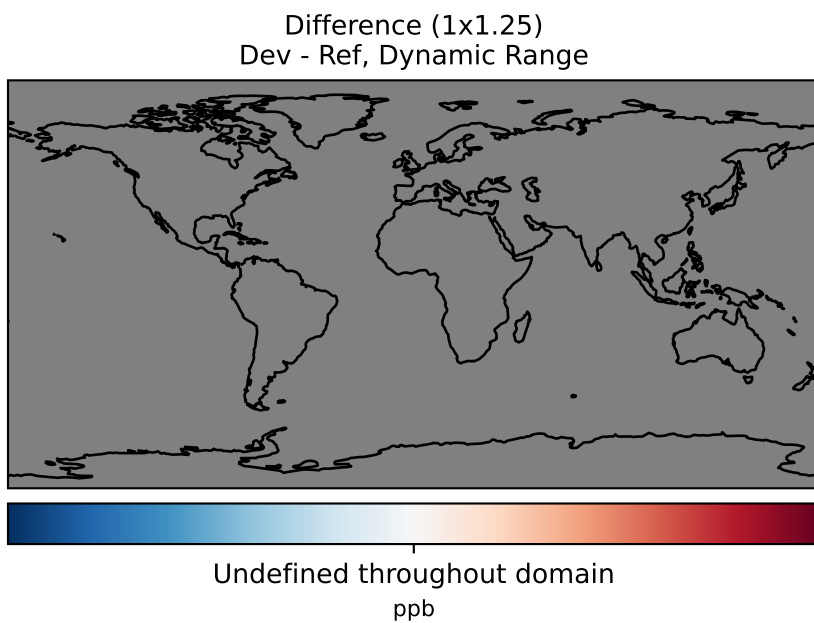
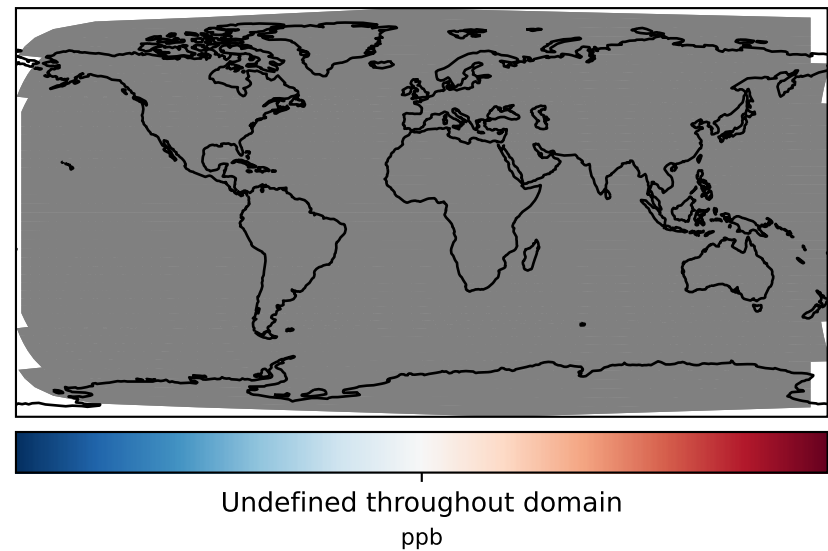
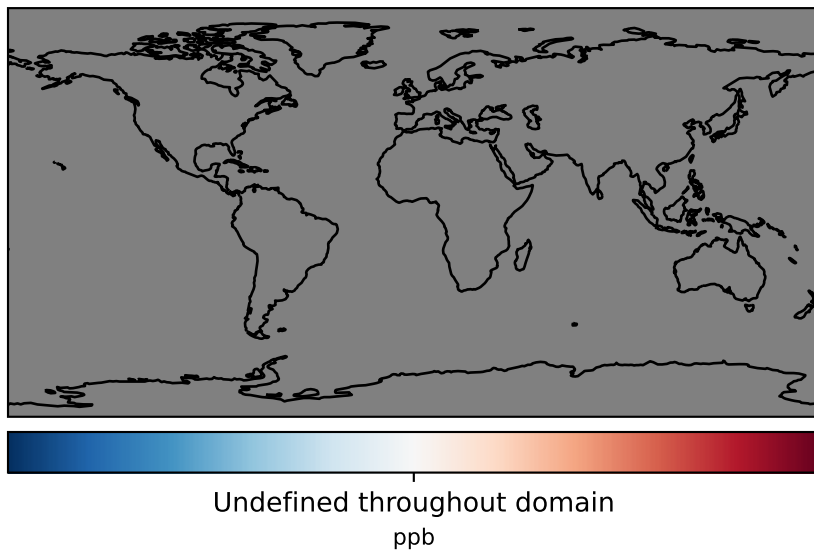
SpeciesConcVW_DSTbin5

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



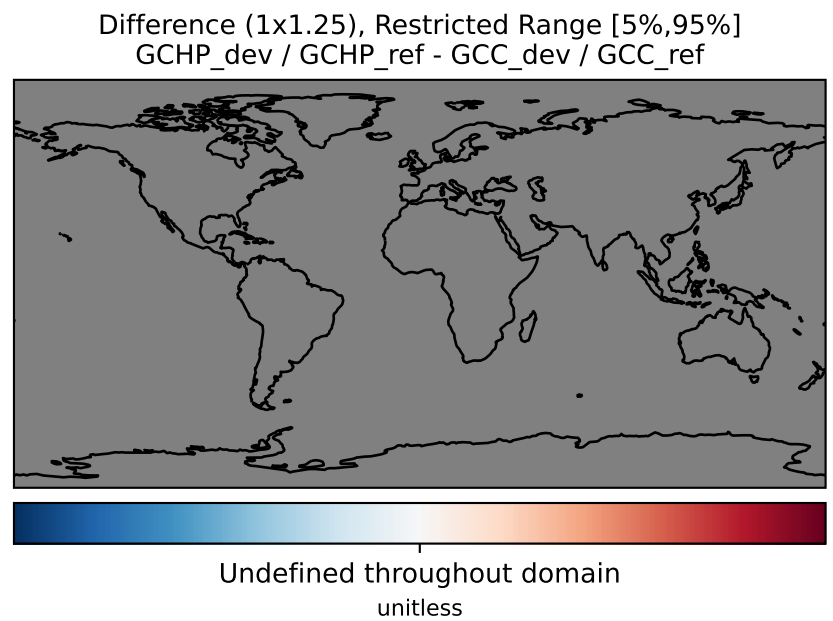
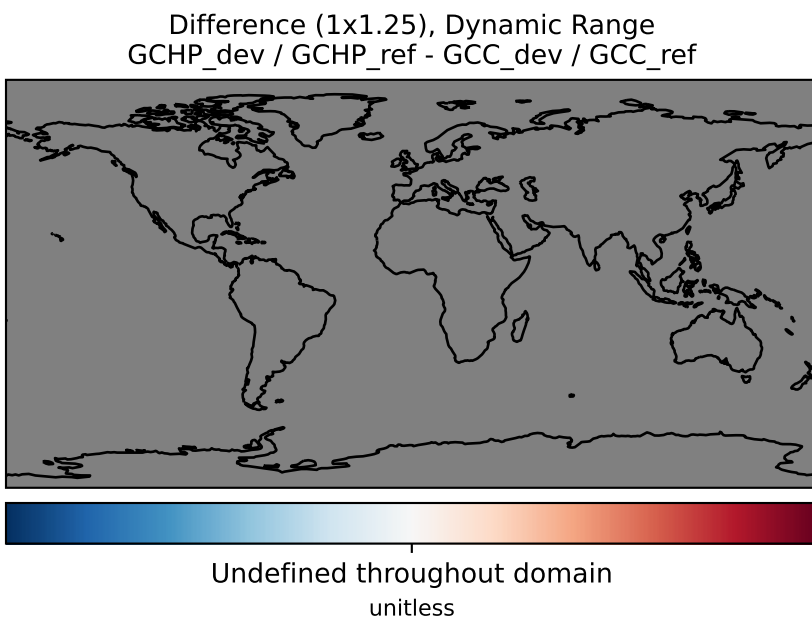
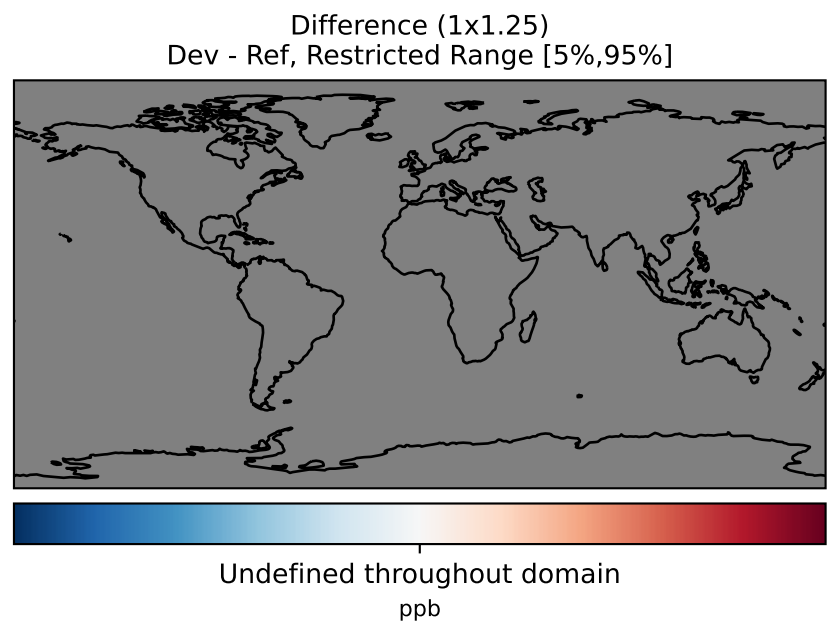
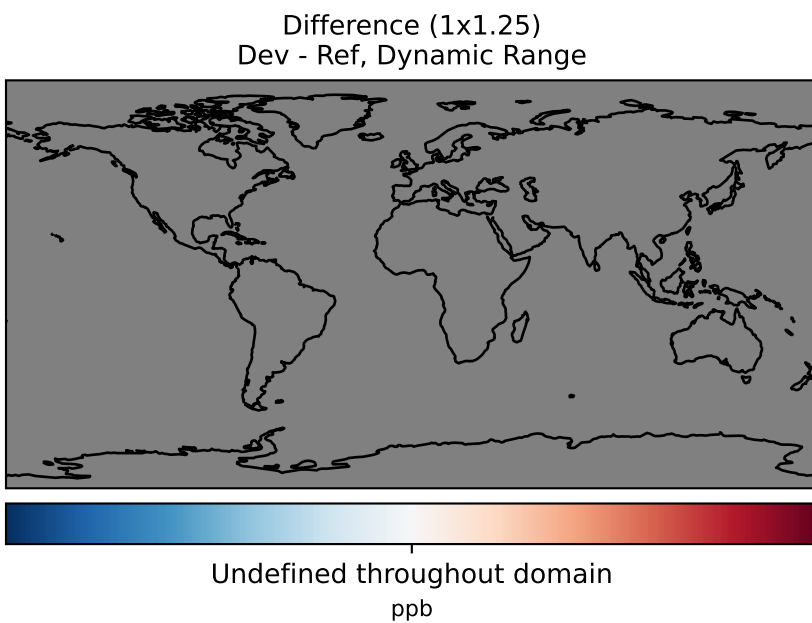
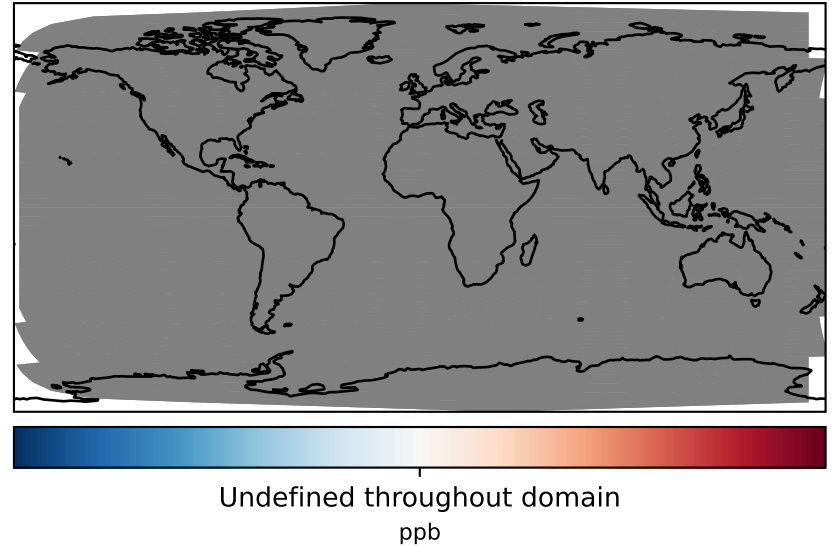
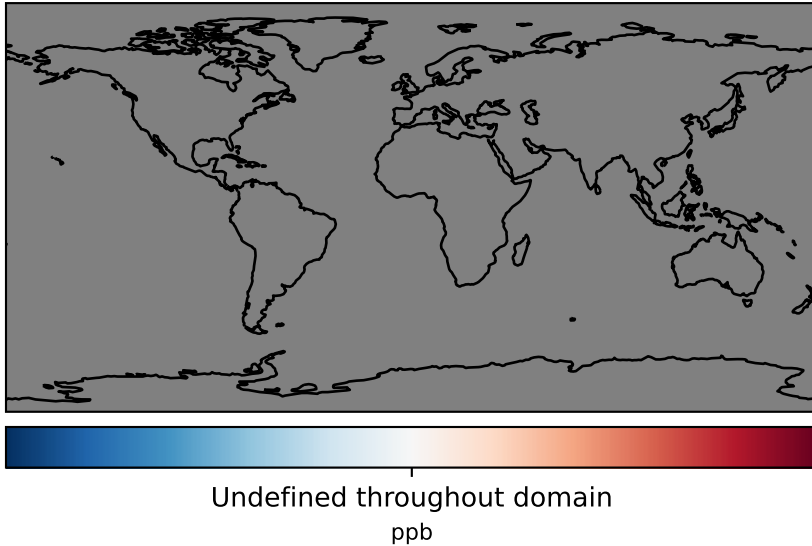
SpeciesConcVW_DSTbin6

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



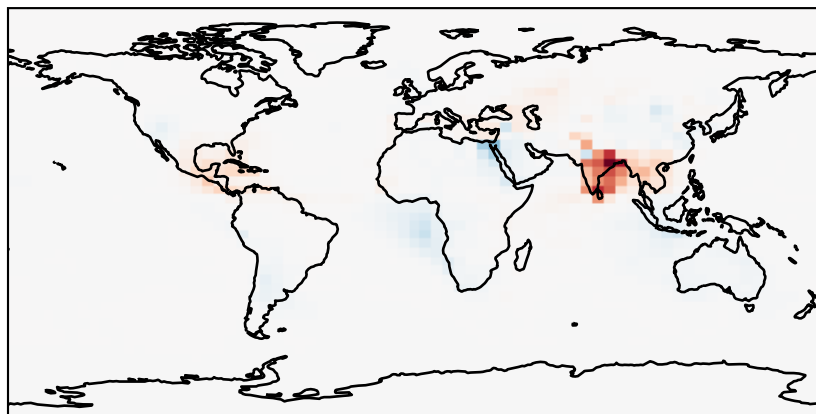
SpeciesConcVW_DSTbin7

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



SpeciesConcVV_NH4

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24

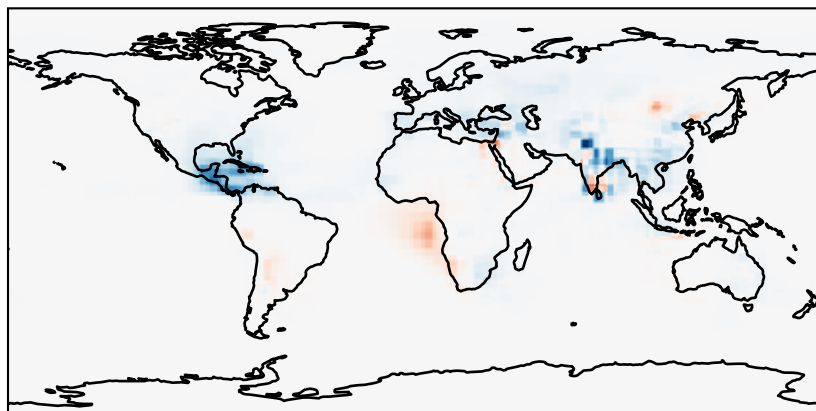


-0.698 -0.349 0.000 0.349 0.698
ppb



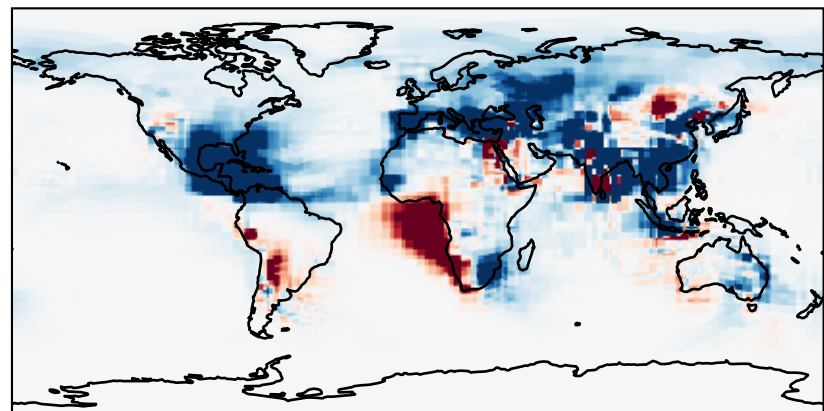
-0.698 -0.349 0.000 0.349 0.698
ppb

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



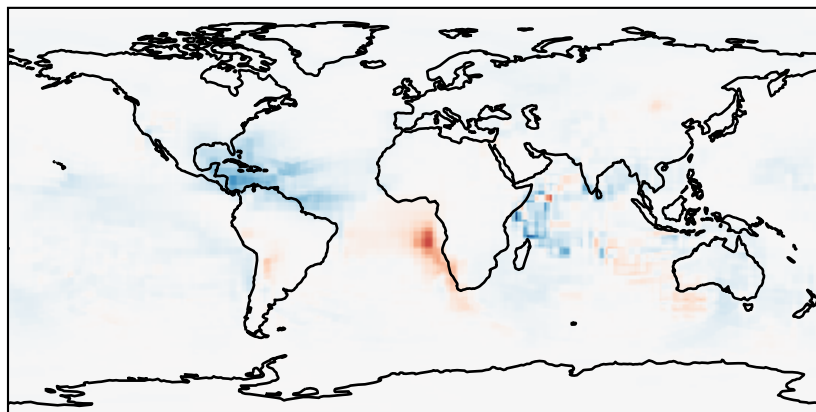
-0.4455 -0.2228 0.0000 0.2228 0.4455
ppb

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



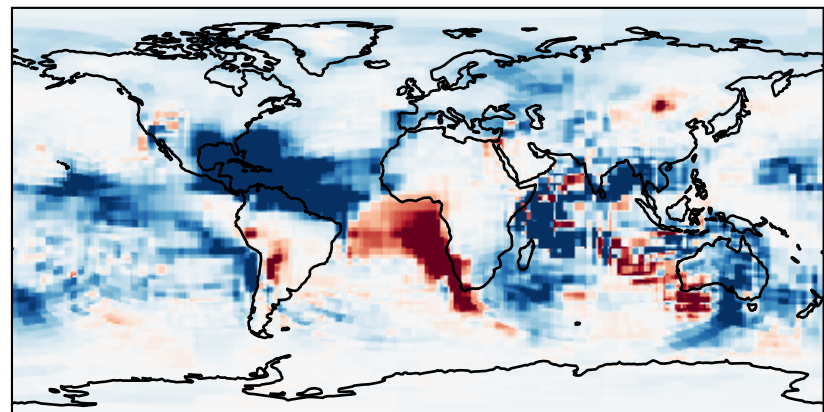
-0.02 0.00 0.02
ppb

Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref



-0.791 -0.395 0.000 0.395 0.791
unitless

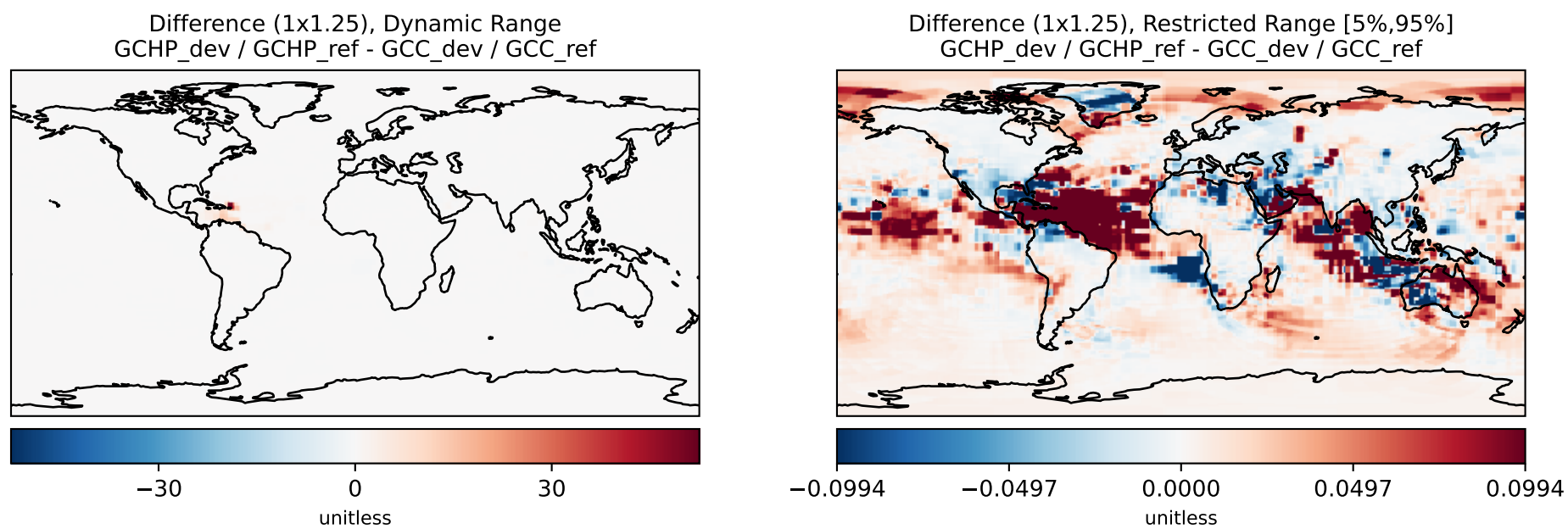
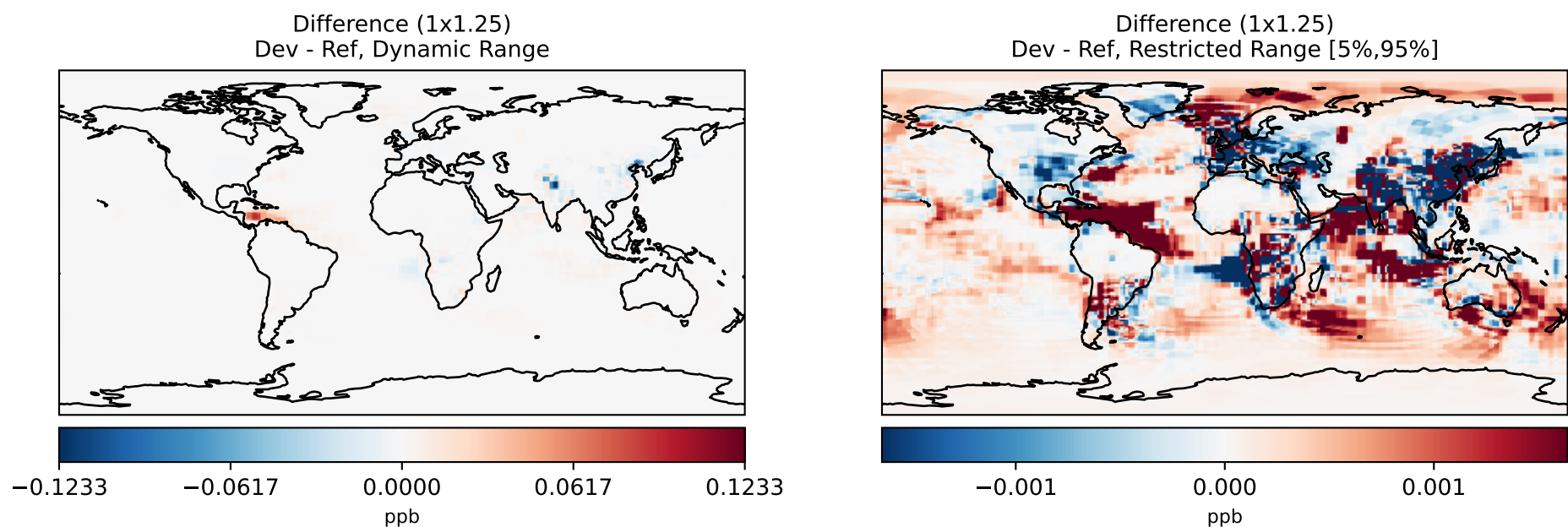
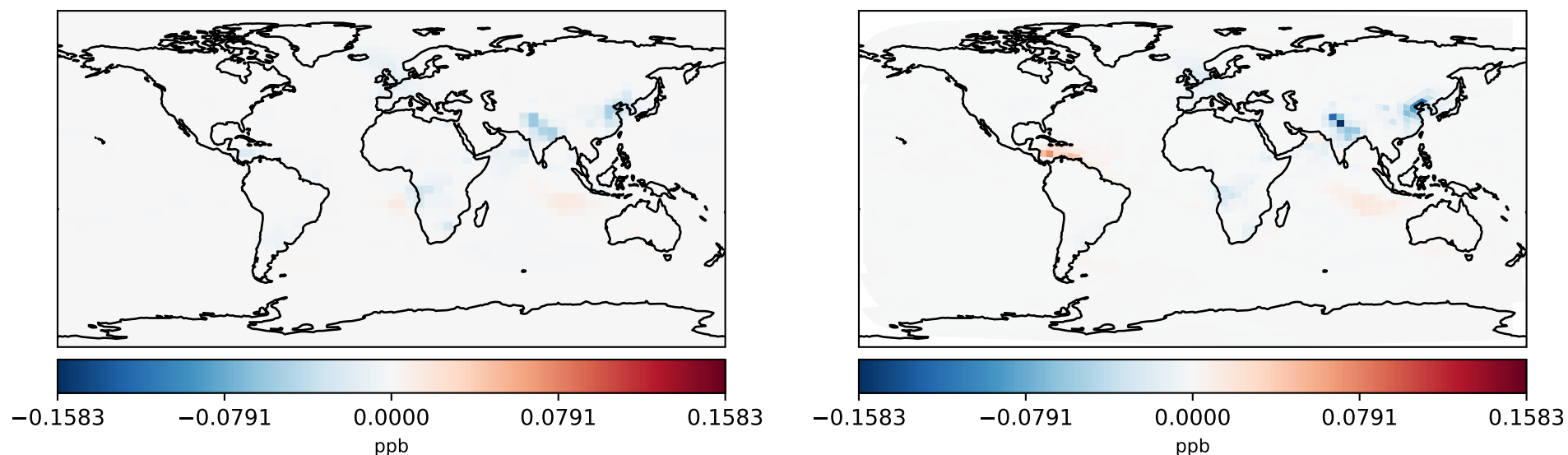
Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref



-0.0762 -0.0381 0.0000 0.0381 0.0762
unitless

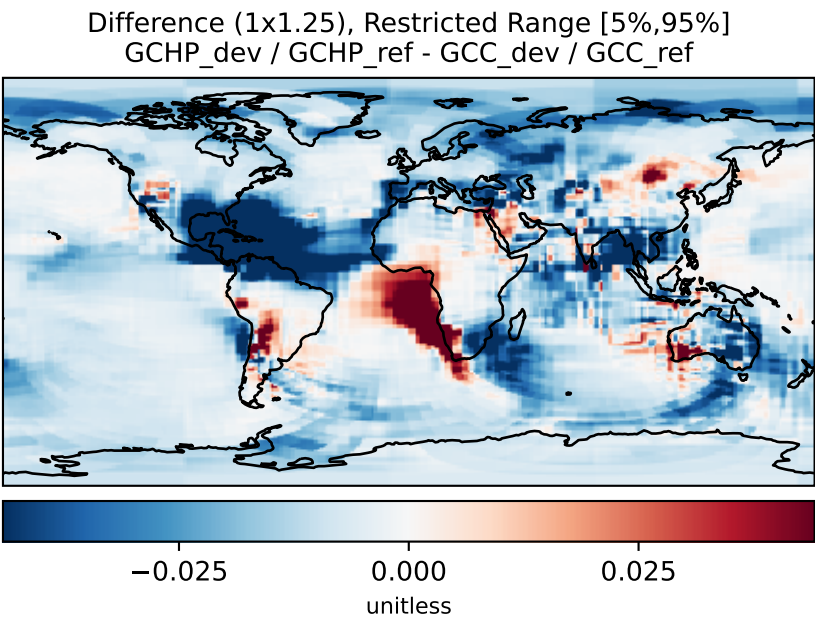
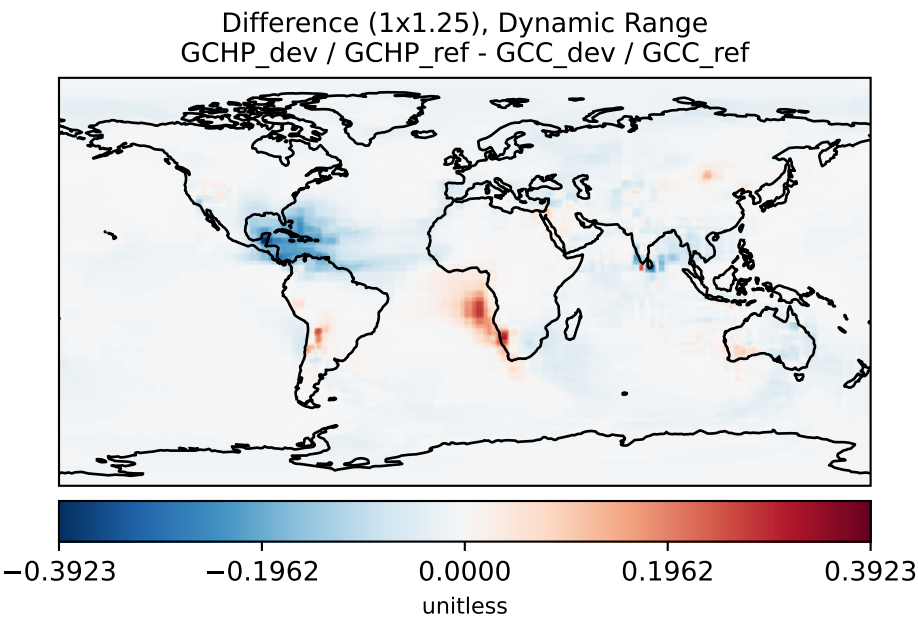
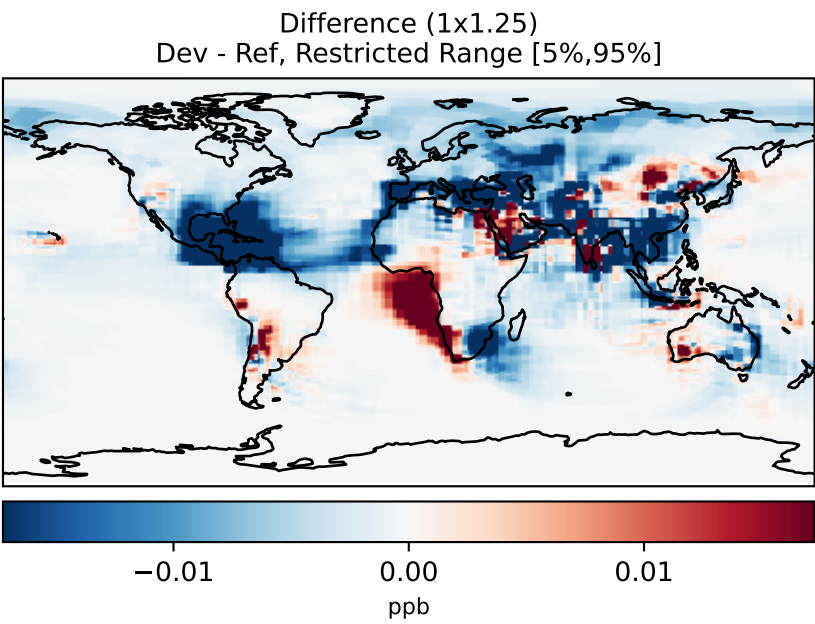
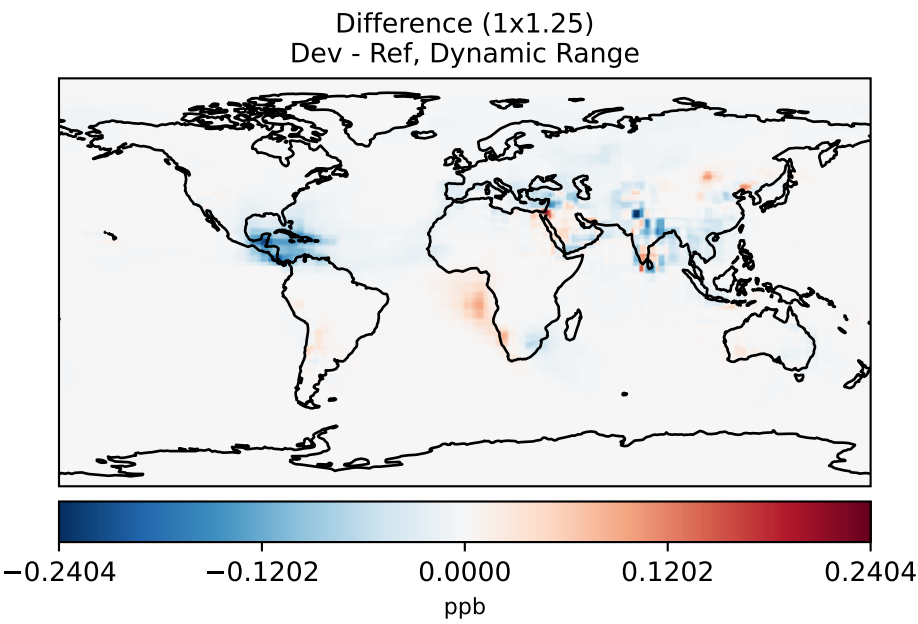
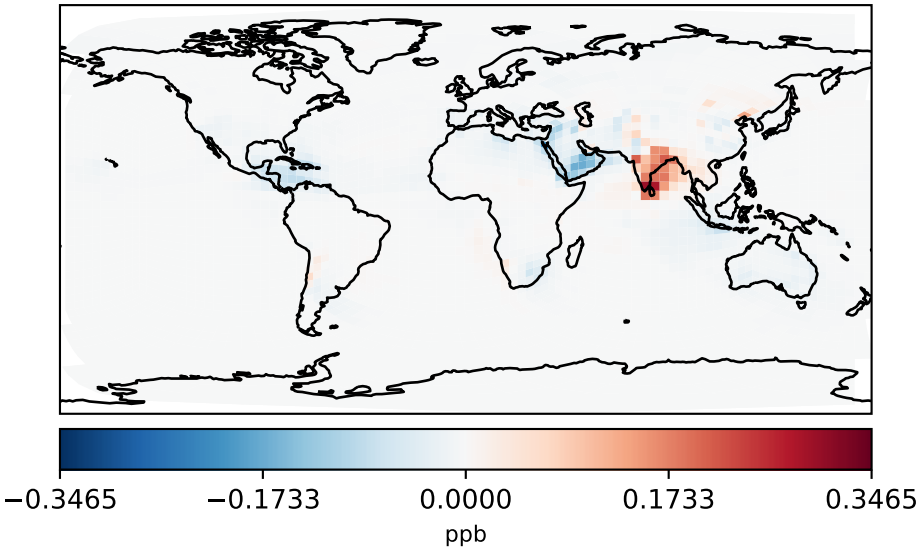
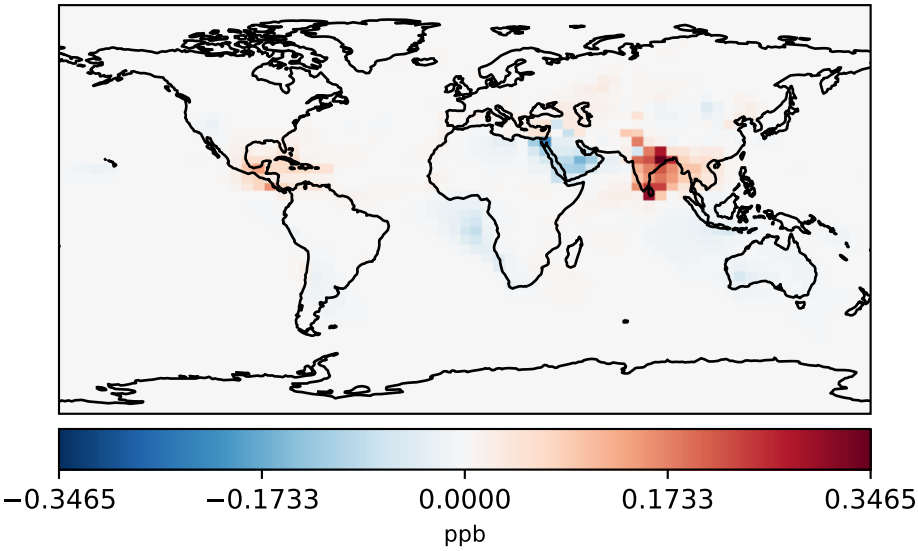
SpeciesConcVV_NIT

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



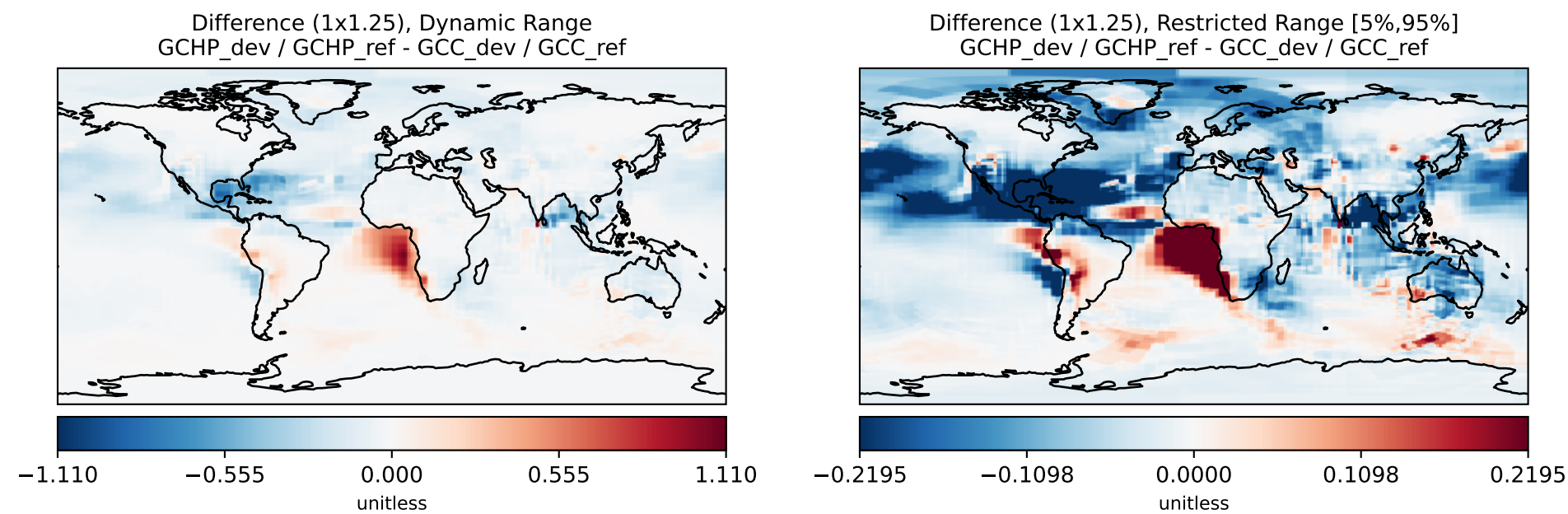
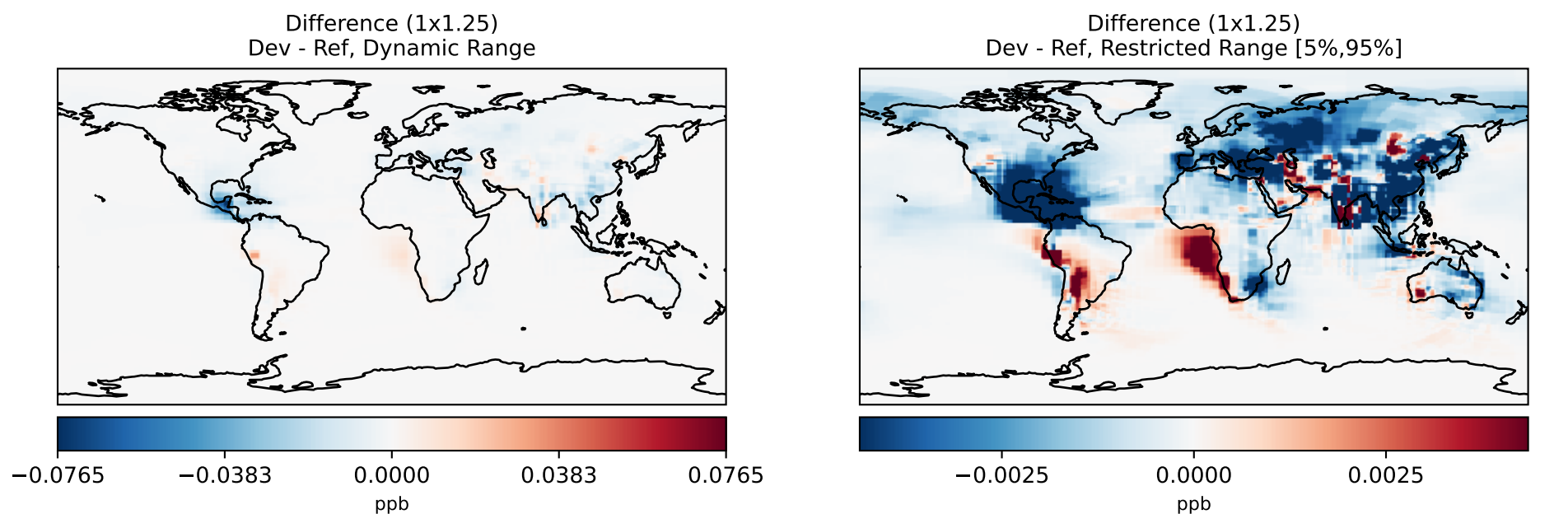
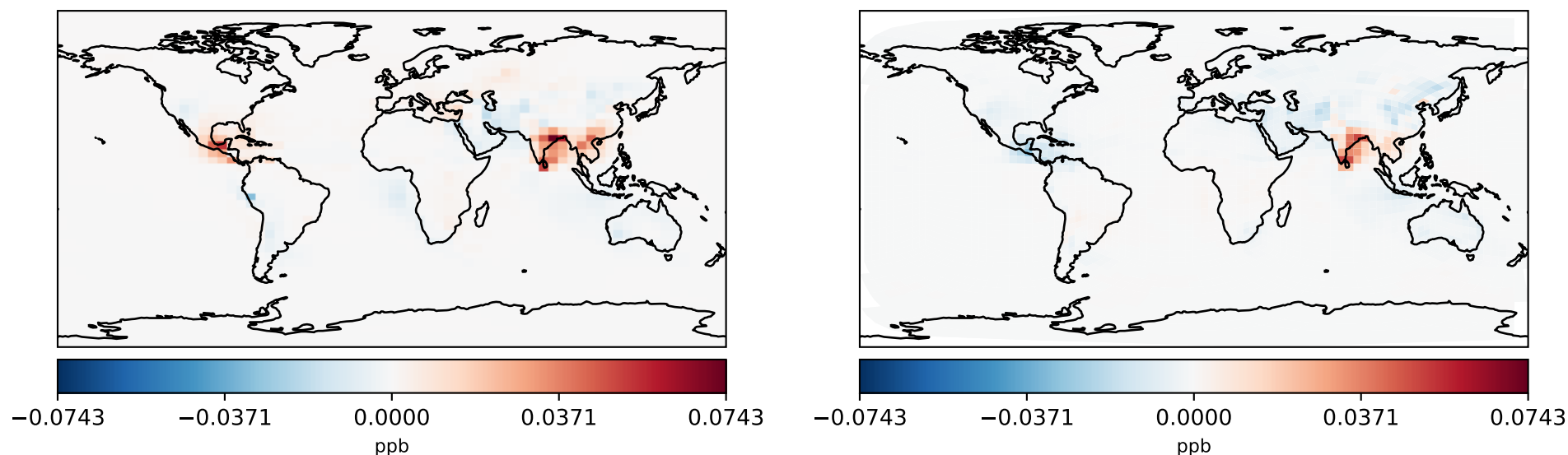
SpeciesConcVV_S04

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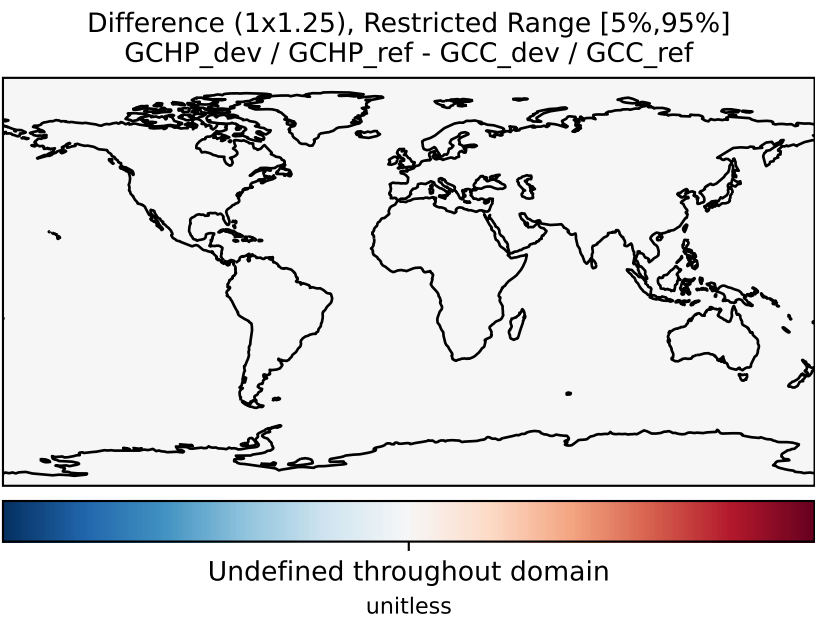
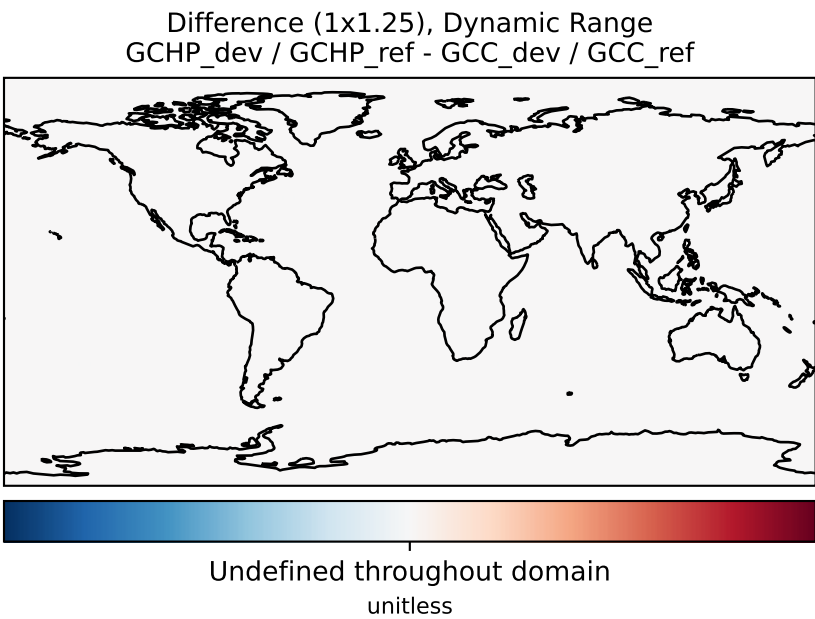
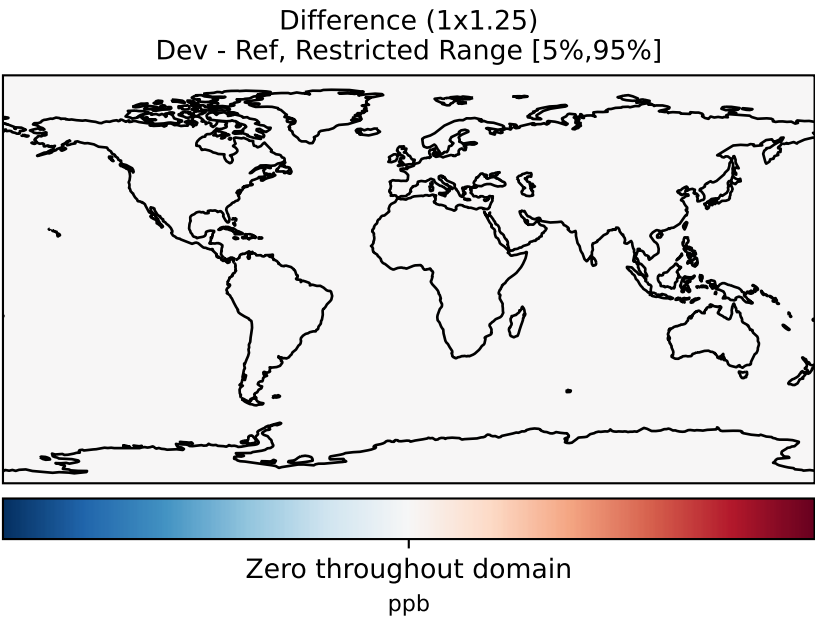
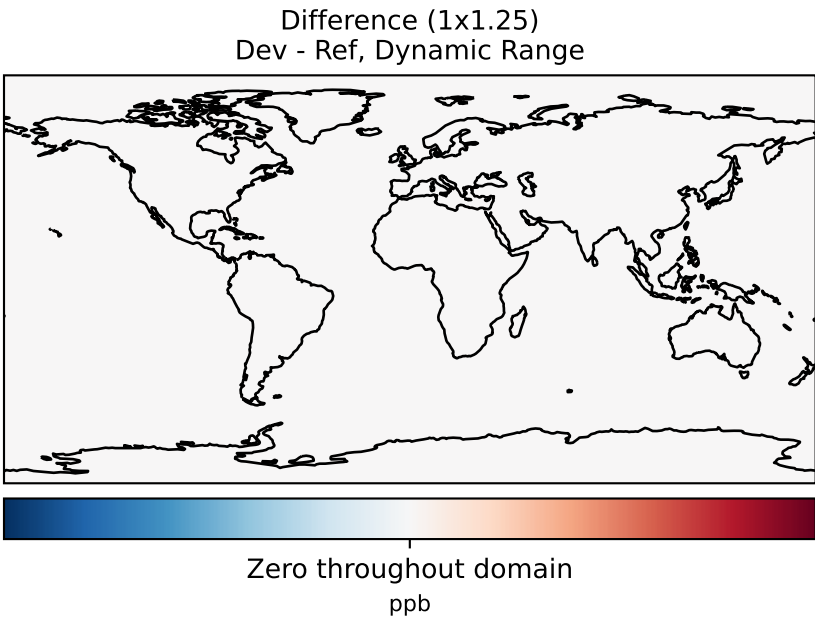
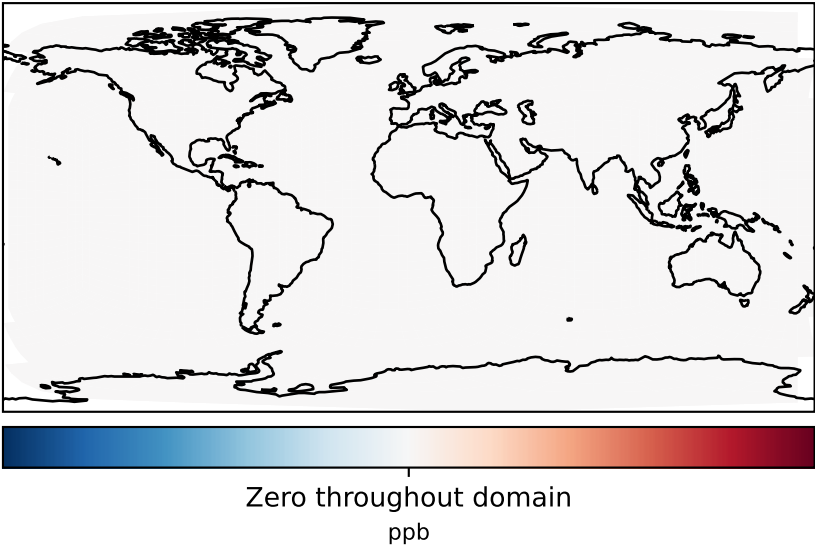
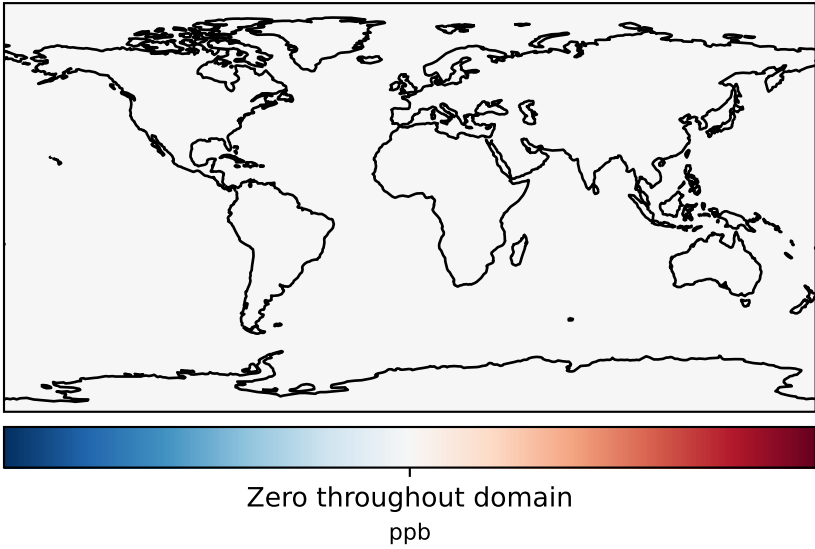
SpeciesConcVV_HMS

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



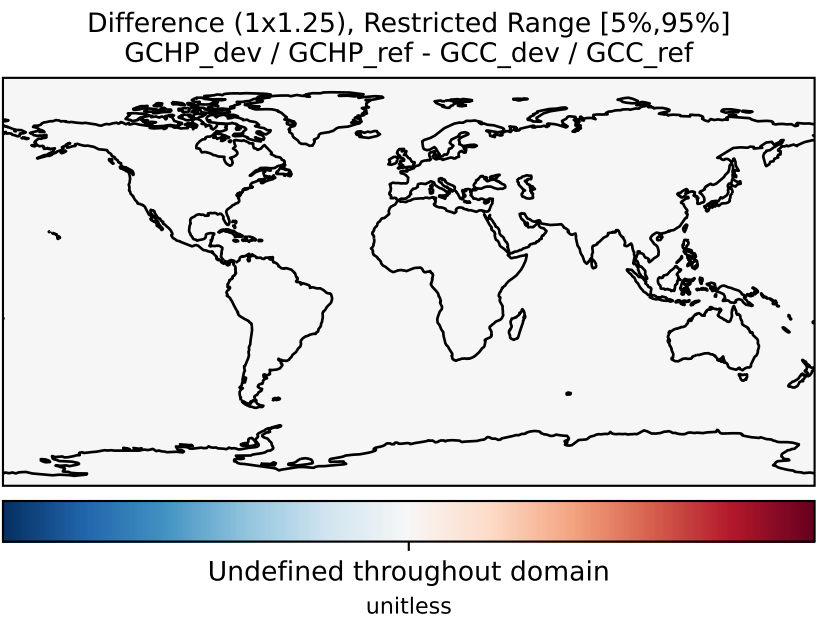
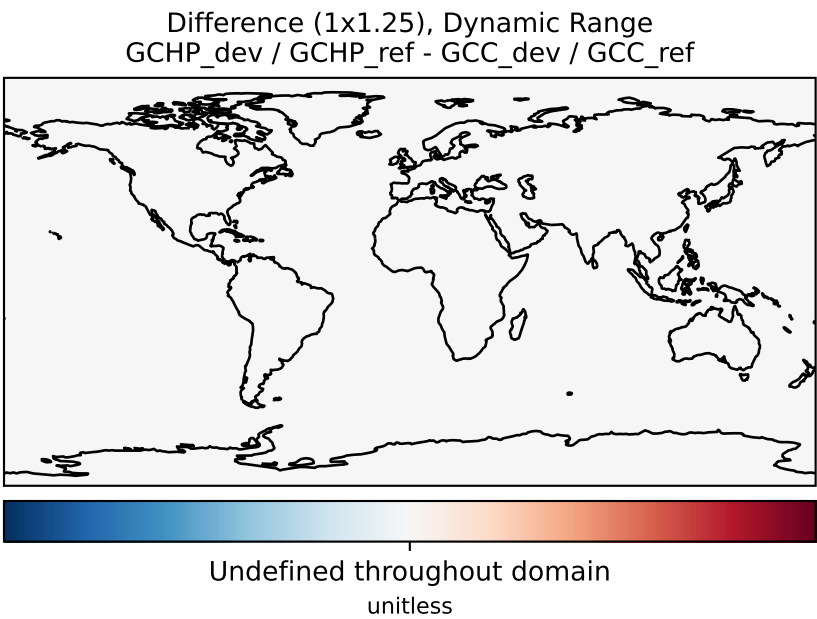
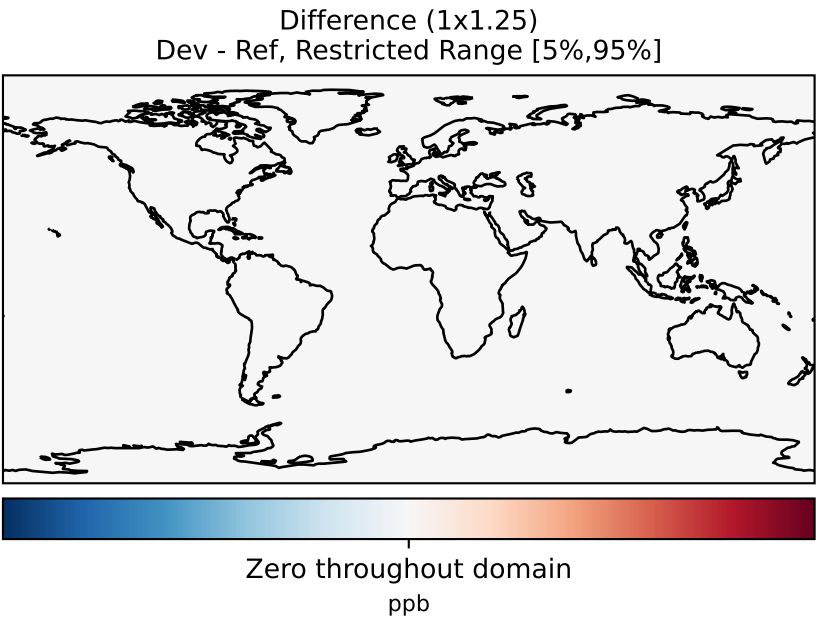
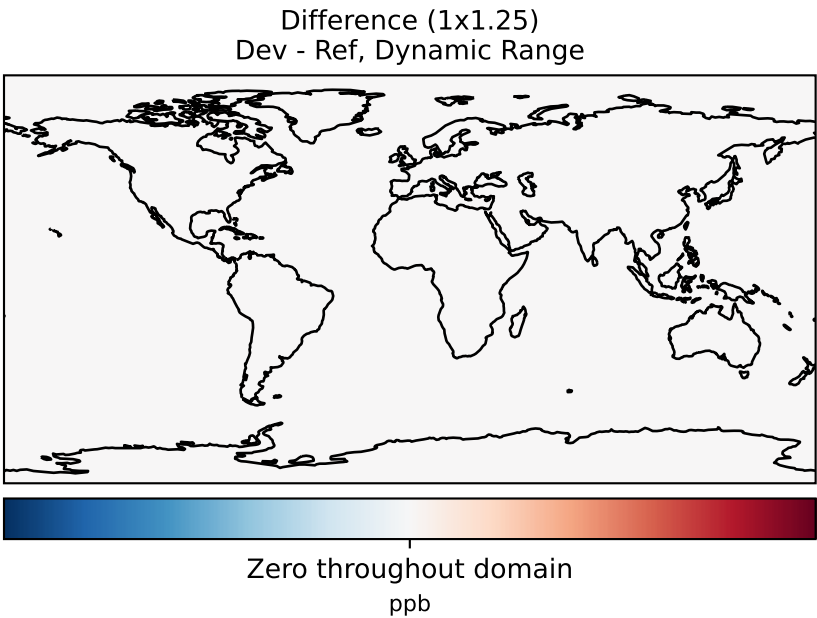
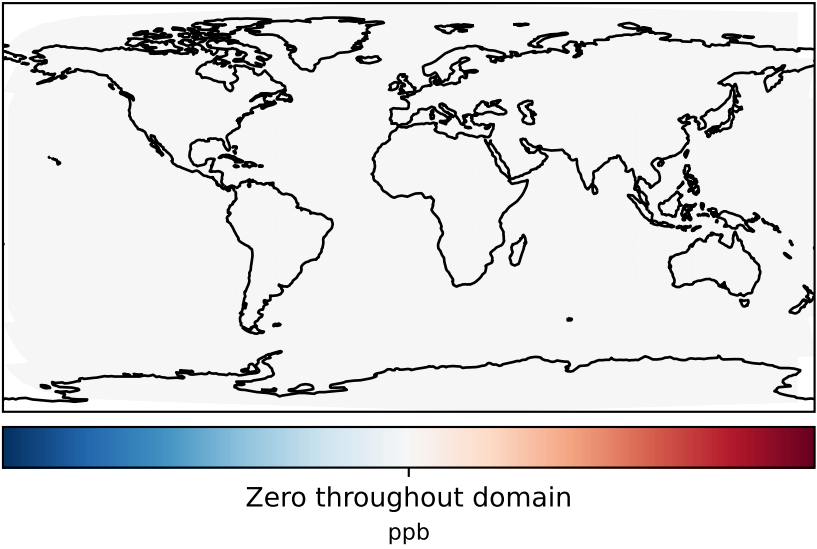
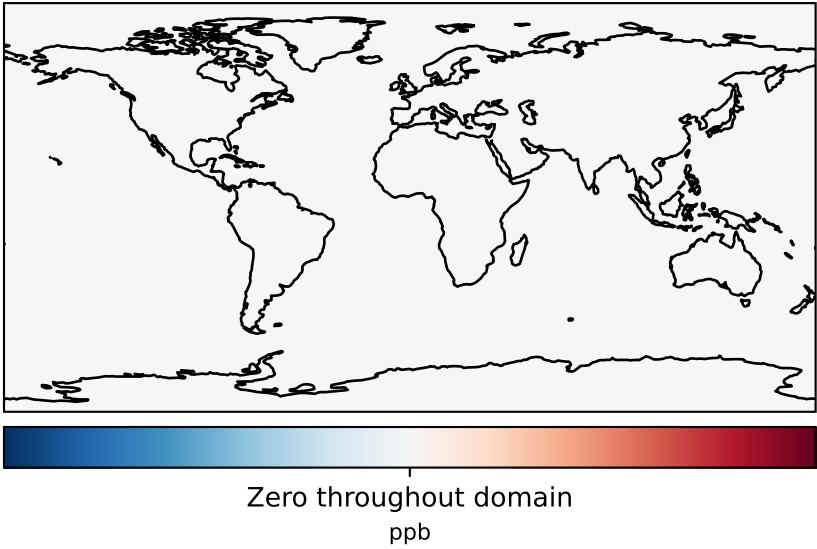
SpeciesConcVW_BCPI

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



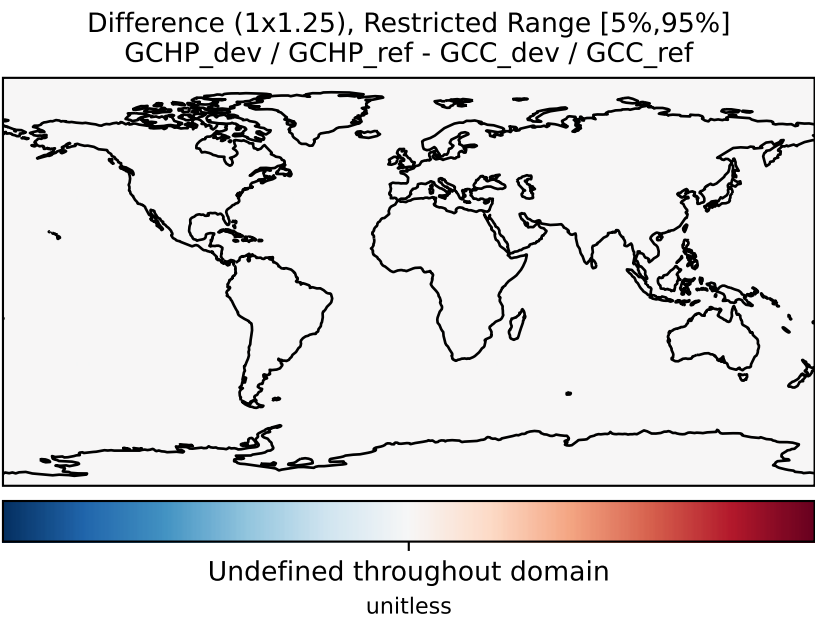
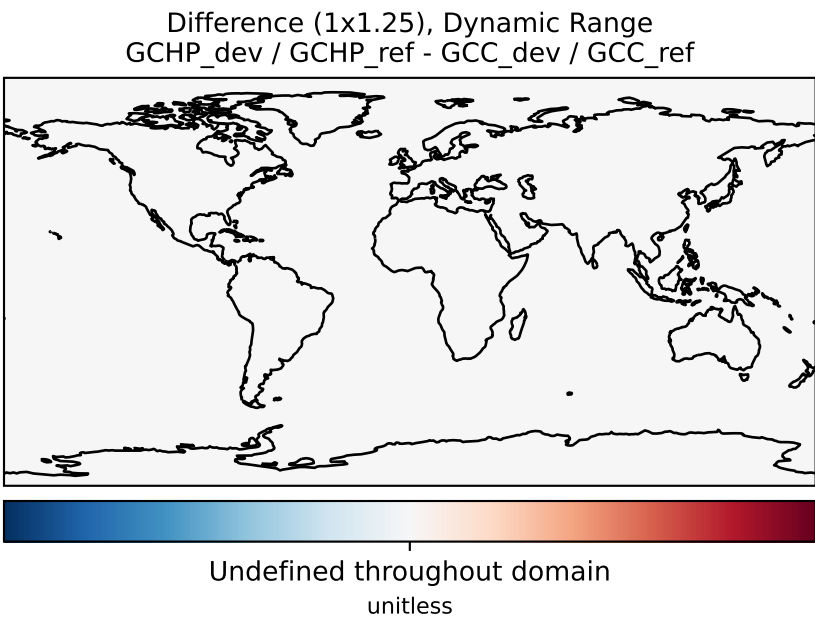
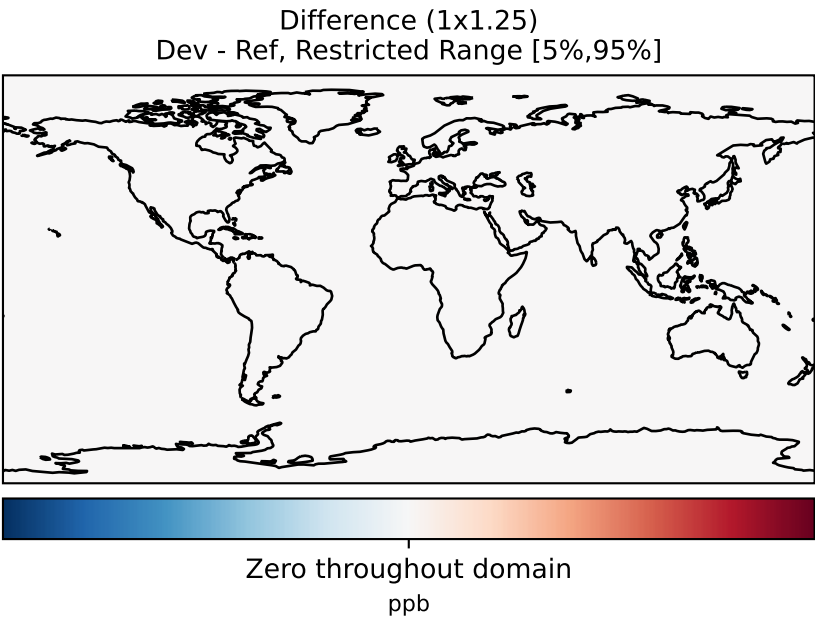
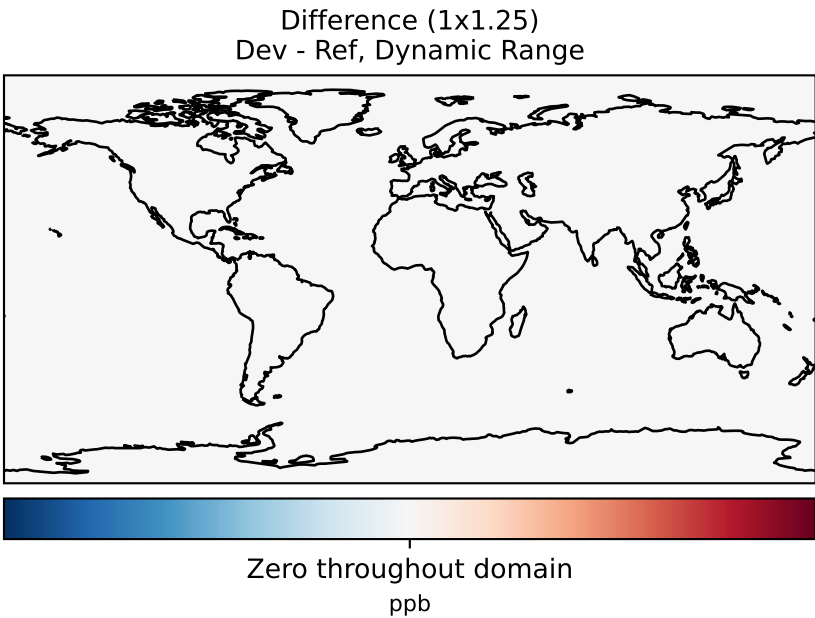
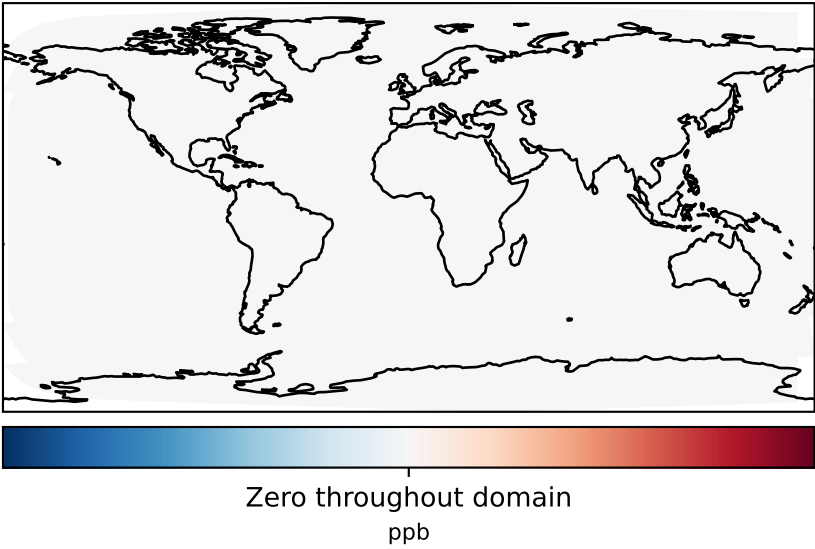
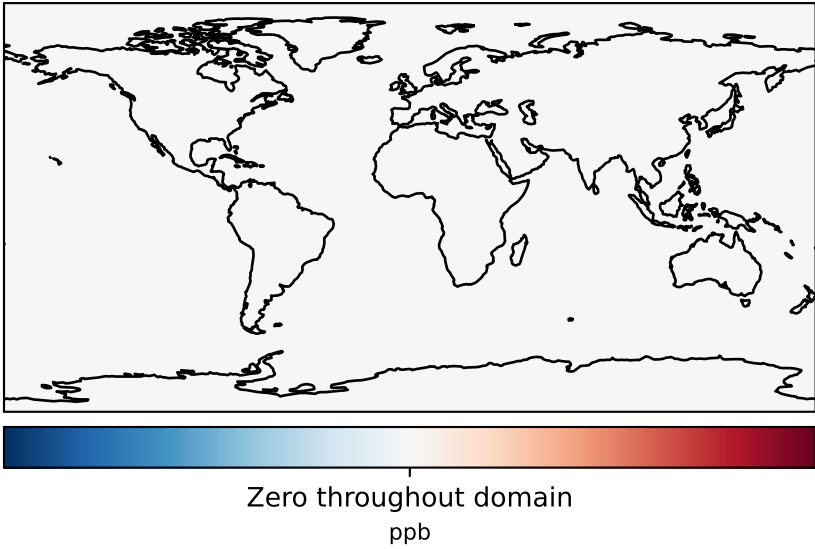
SpeciesConcVW_BCPO

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



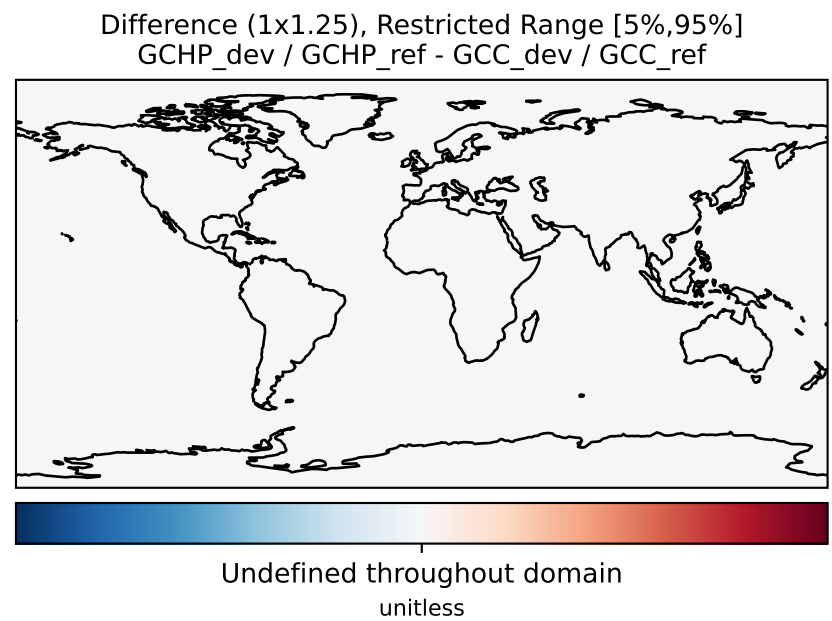
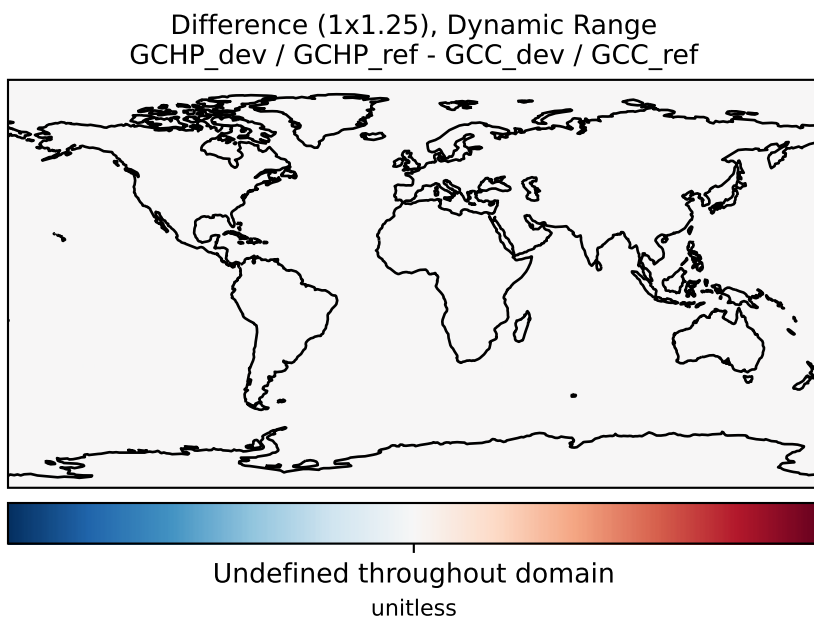
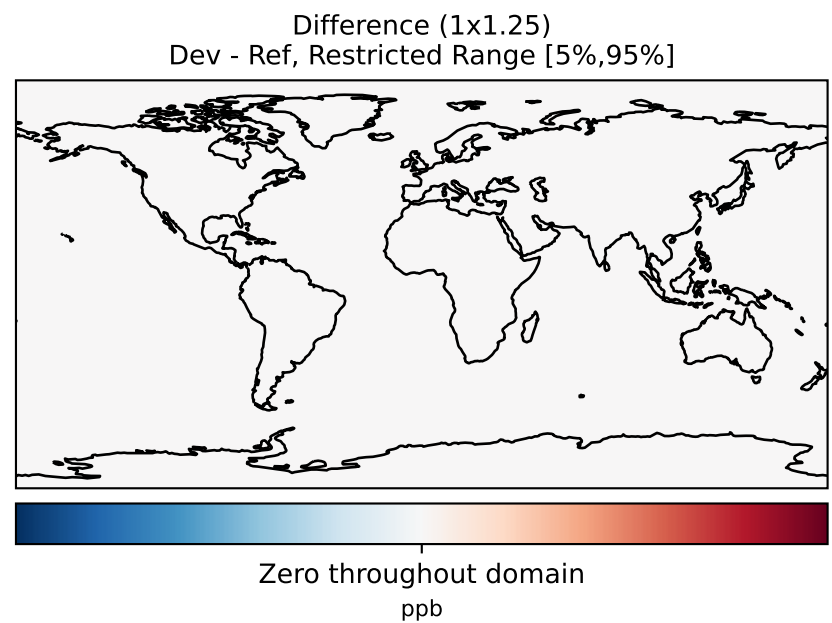
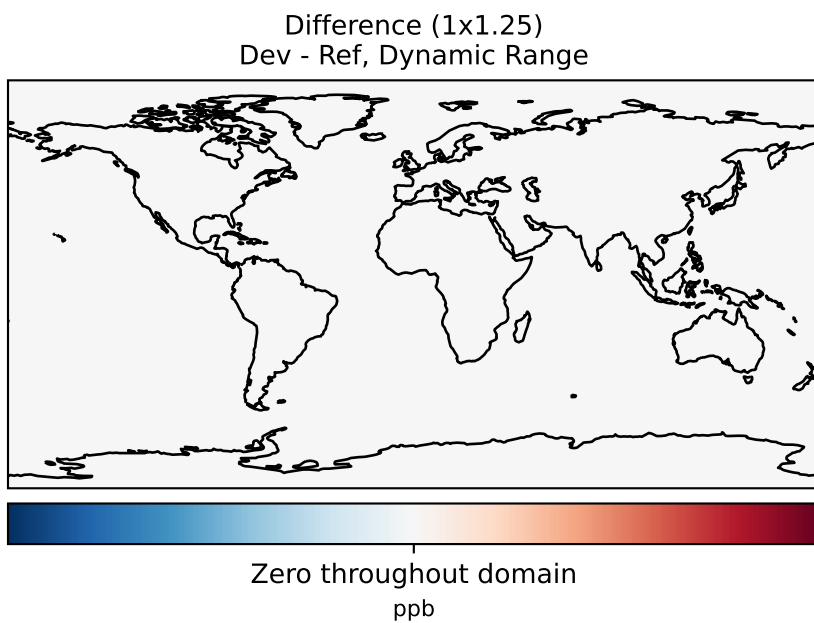
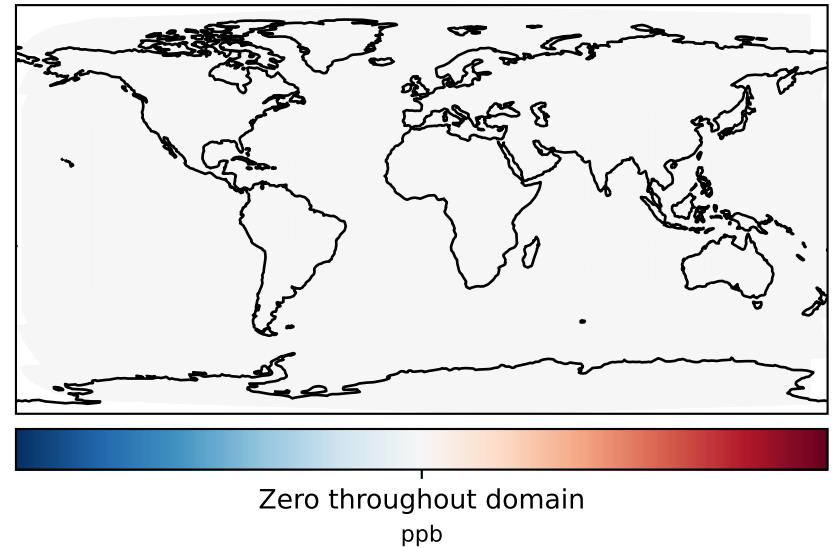
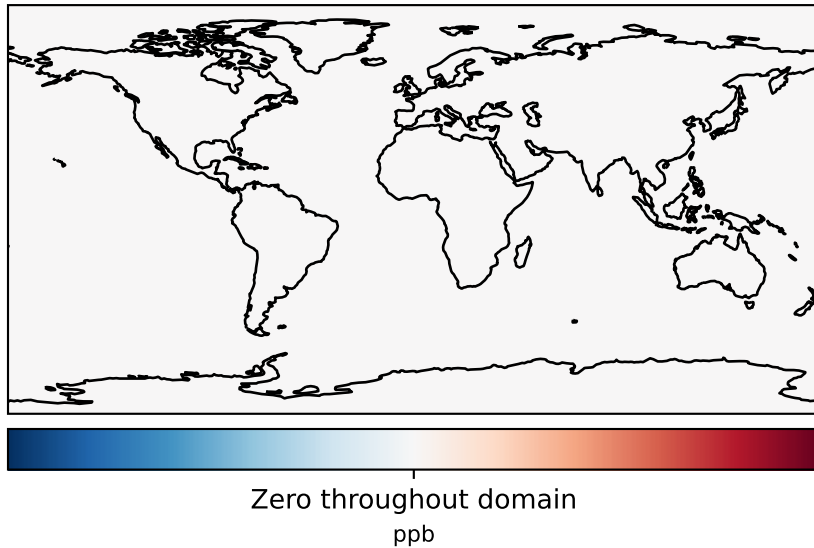
SpeciesConcVV_OCPI

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



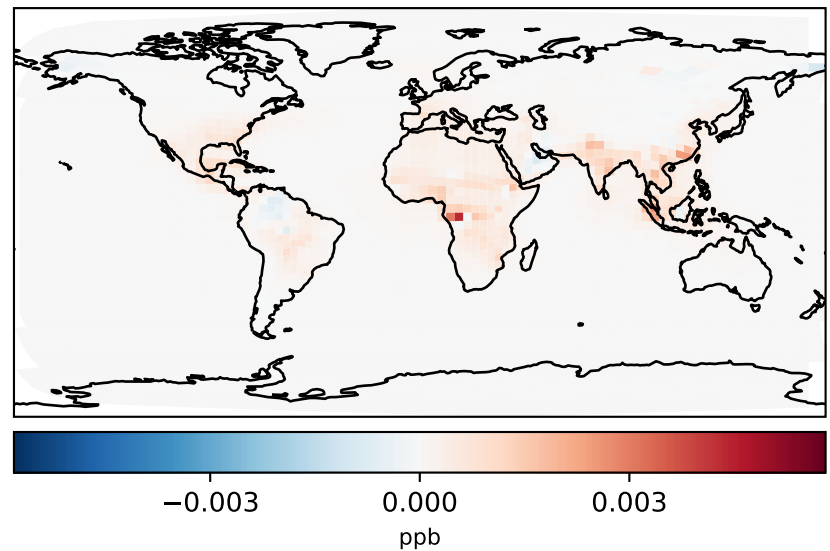
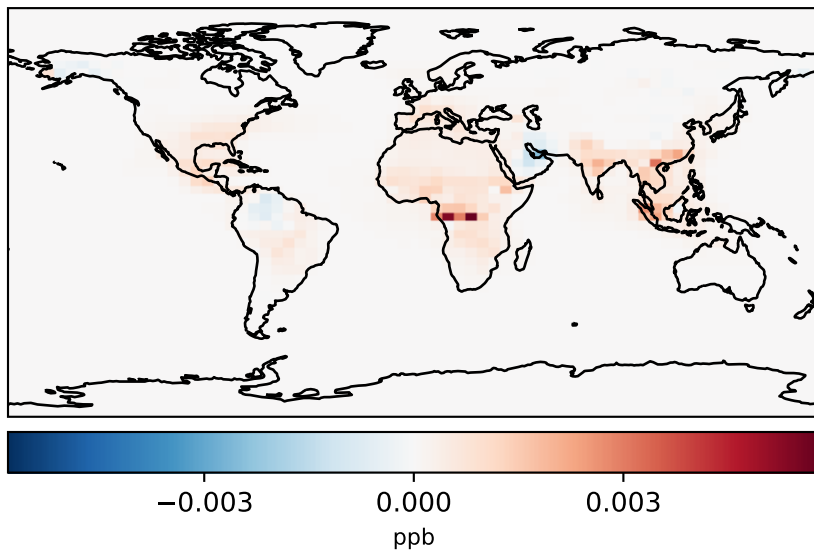
SpeciesConcVV_OCPO

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24

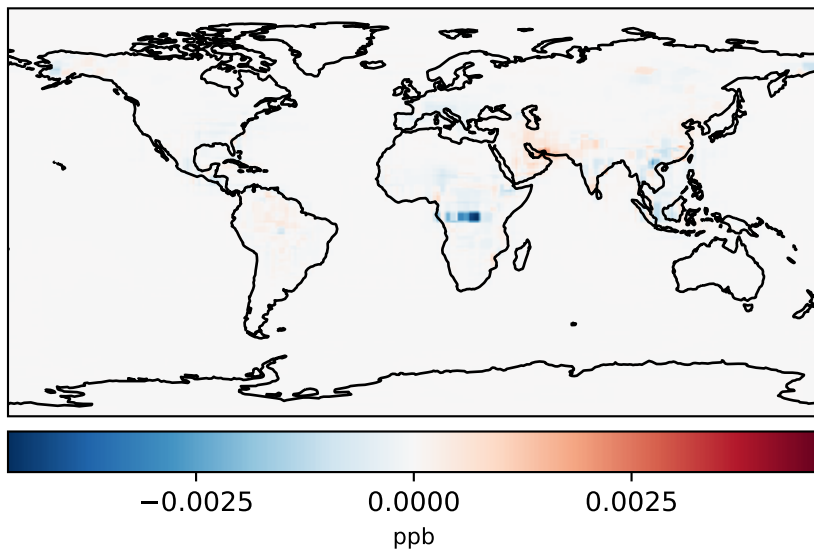


SpeciesConcVV_Complex_SOA

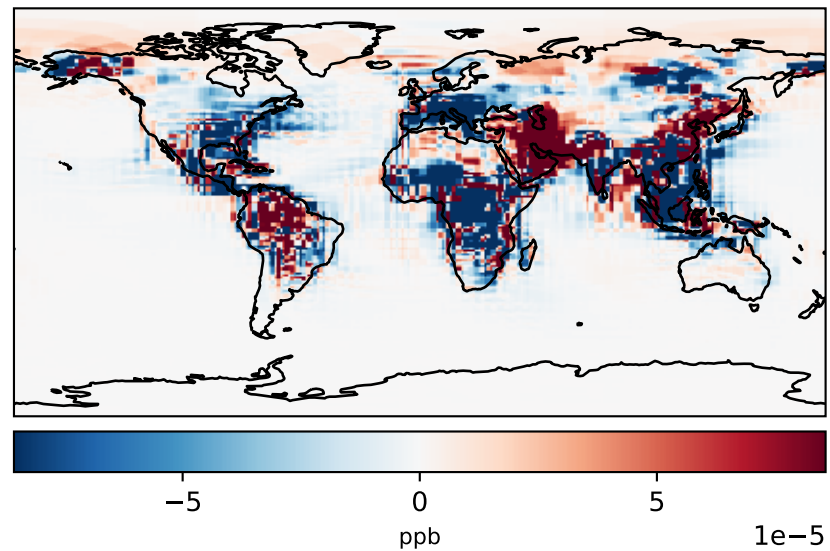
gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



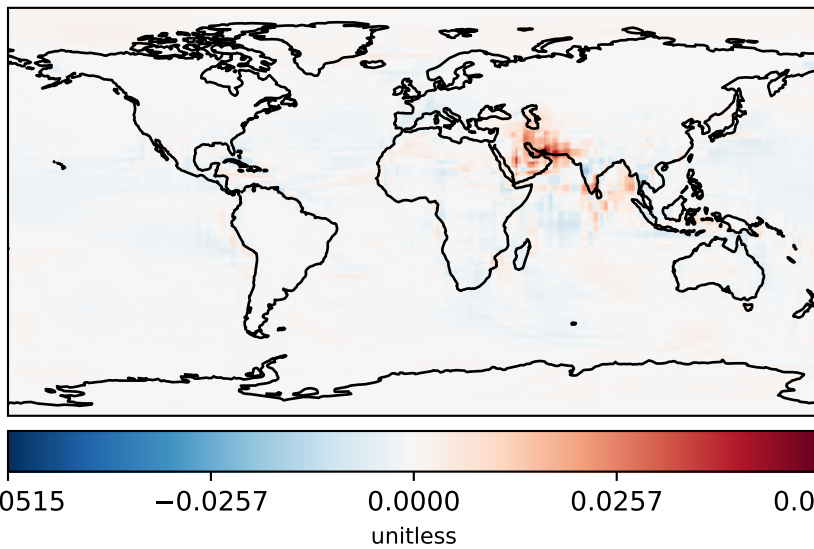
Difference (1x1.25)
Dev - Ref, Dynamic Range



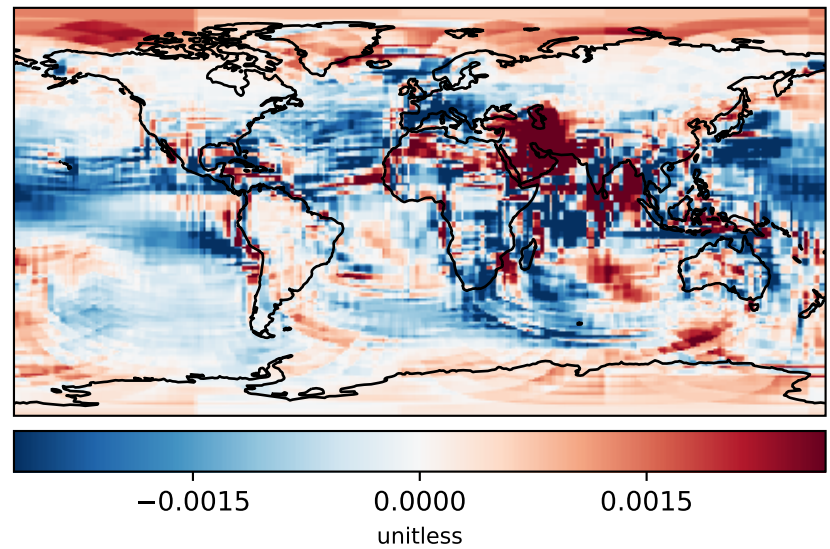
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
 $\text{GCHP_dev} / \text{GCHP_ref} - \text{GCC_dev} / \text{GCC_ref}$

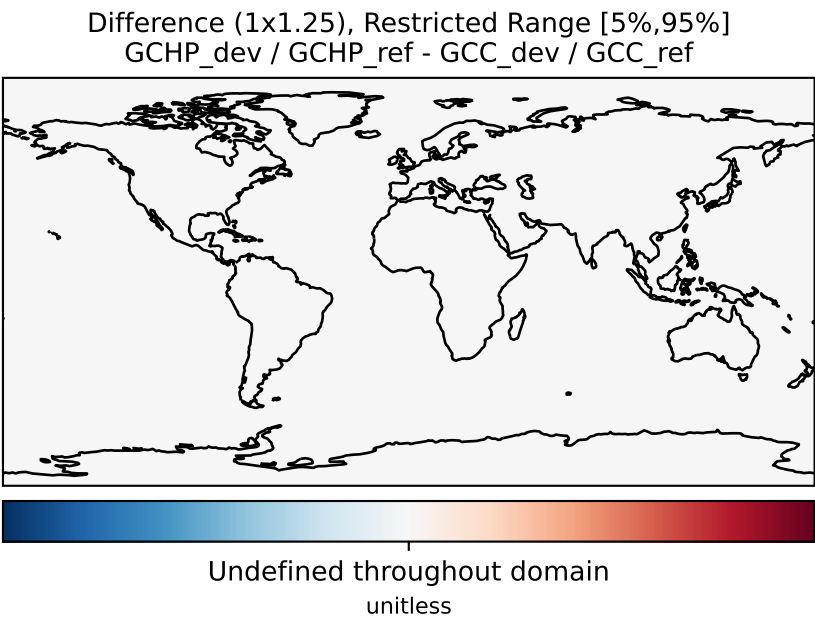
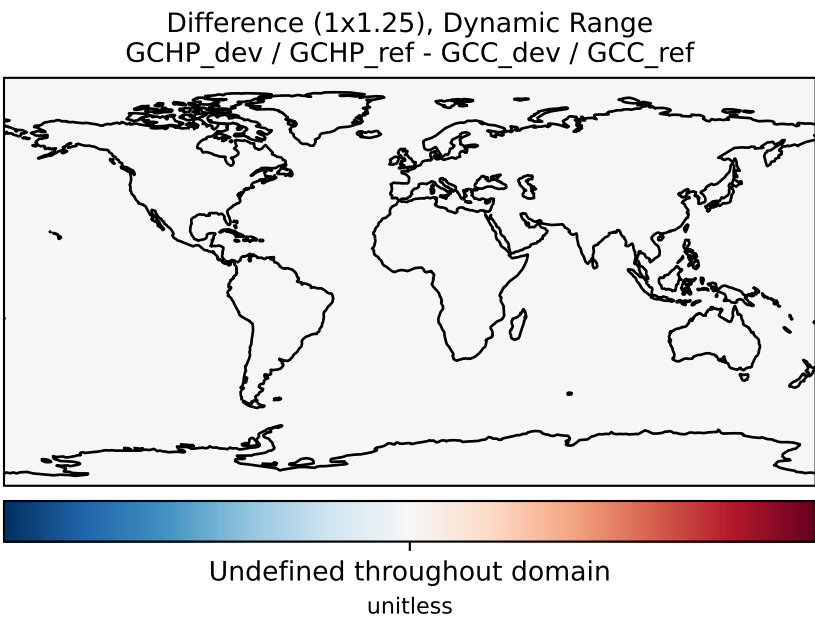
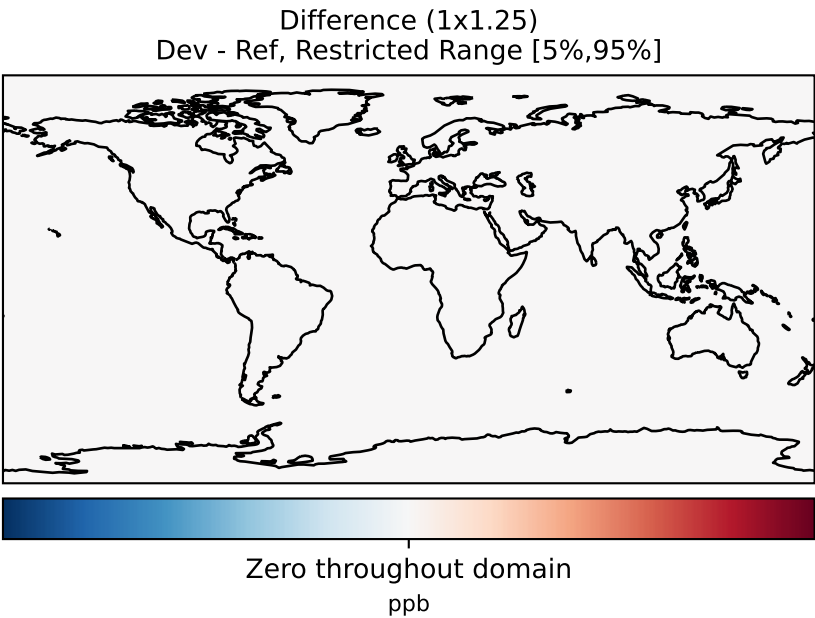
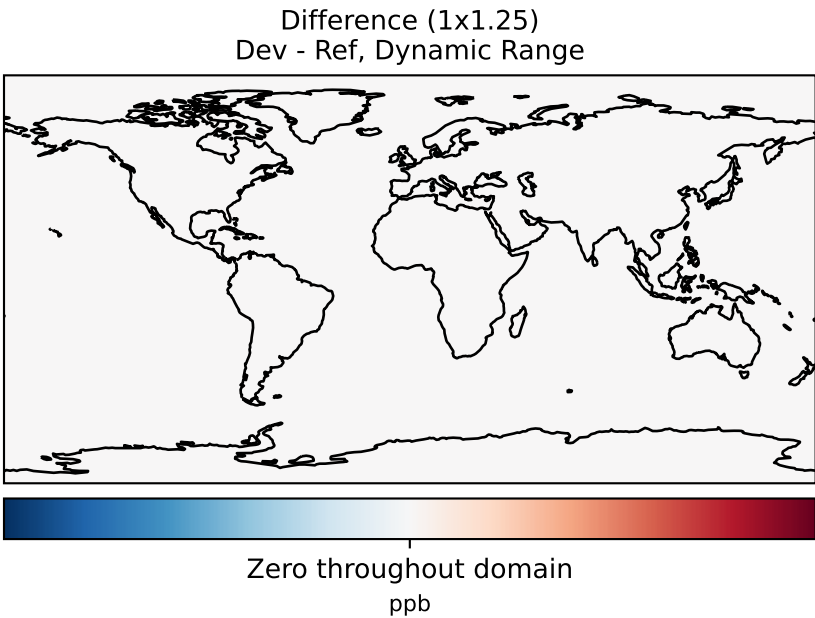
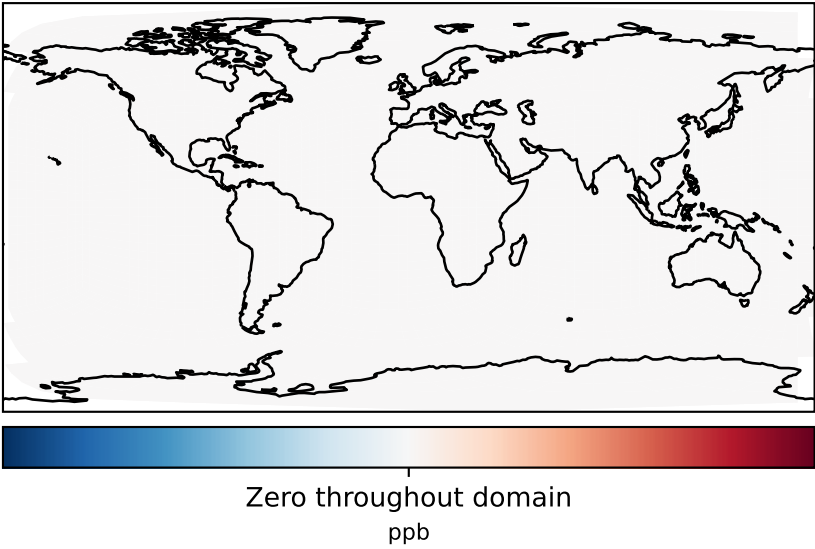
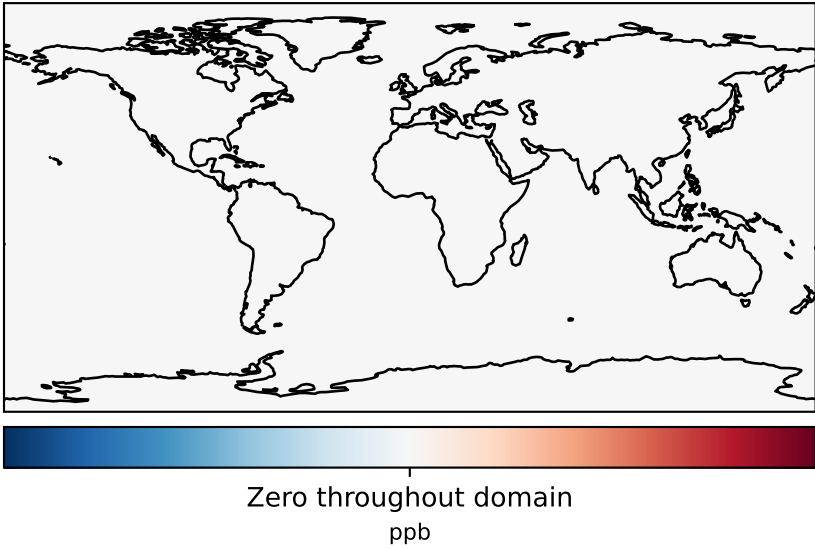


Difference (1x1.25), Restricted Range [5%,95%]
 $\text{GCHP_dev} / \text{GCHP_ref} - \text{GCC_dev} / \text{GCC_ref}$



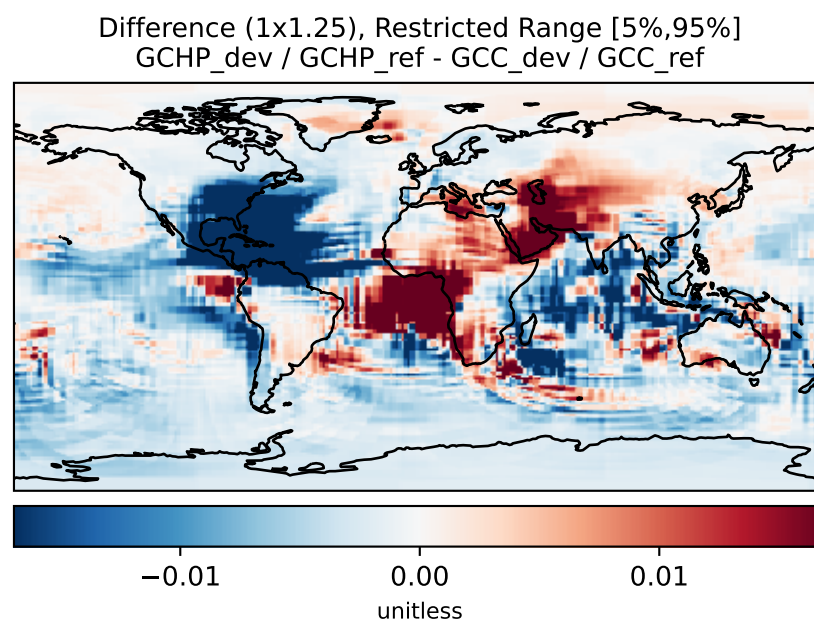
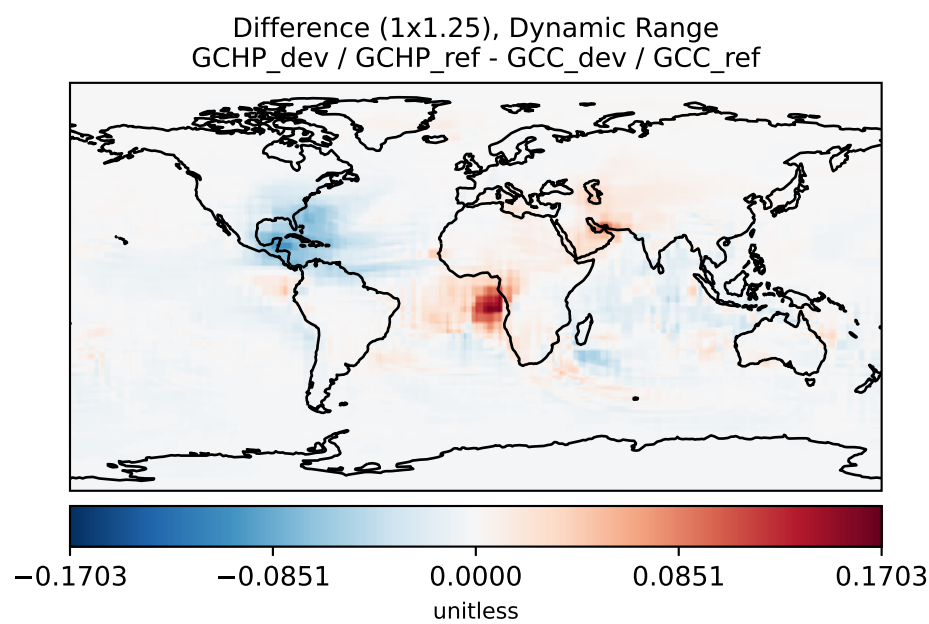
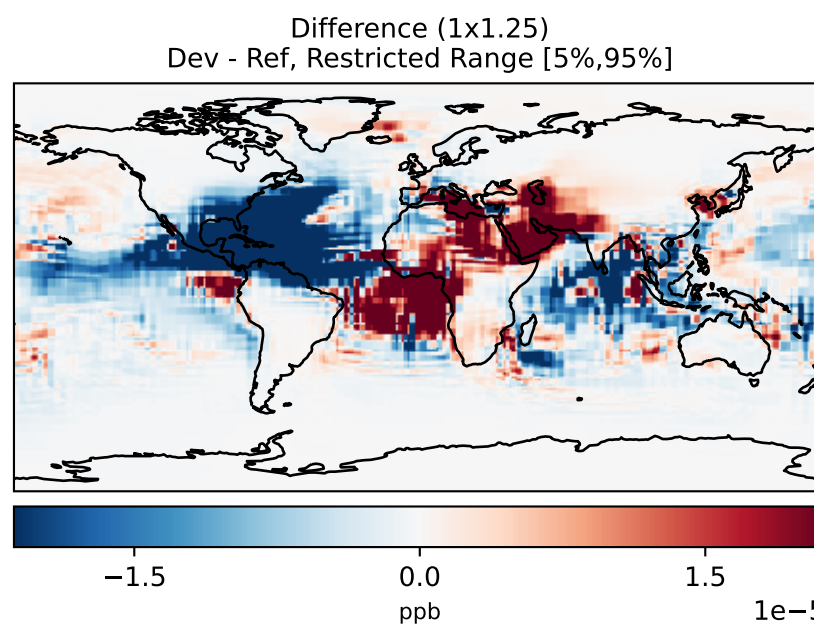
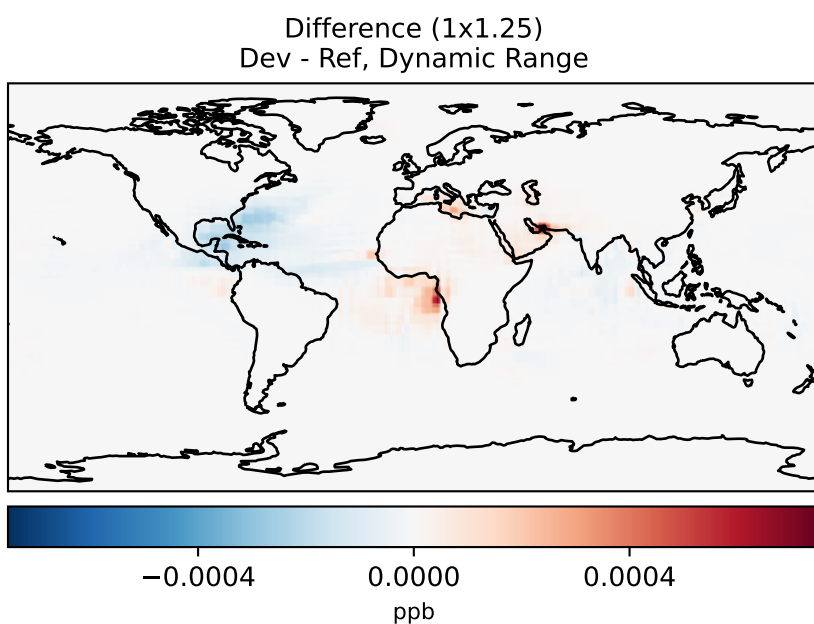
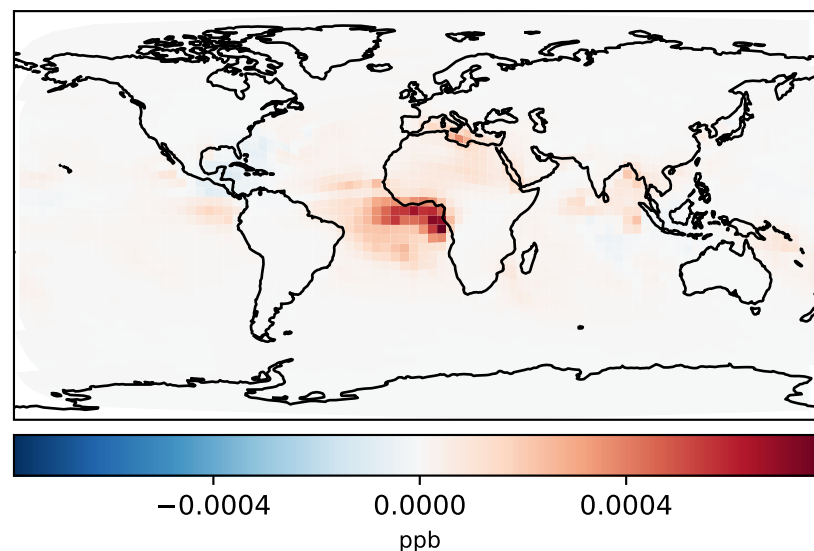
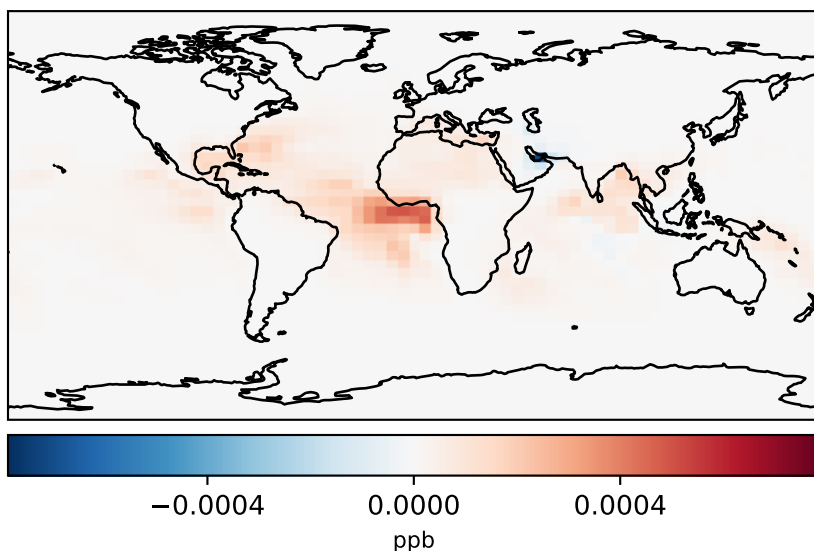
SpeciesConcVV_Simple_SOA

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



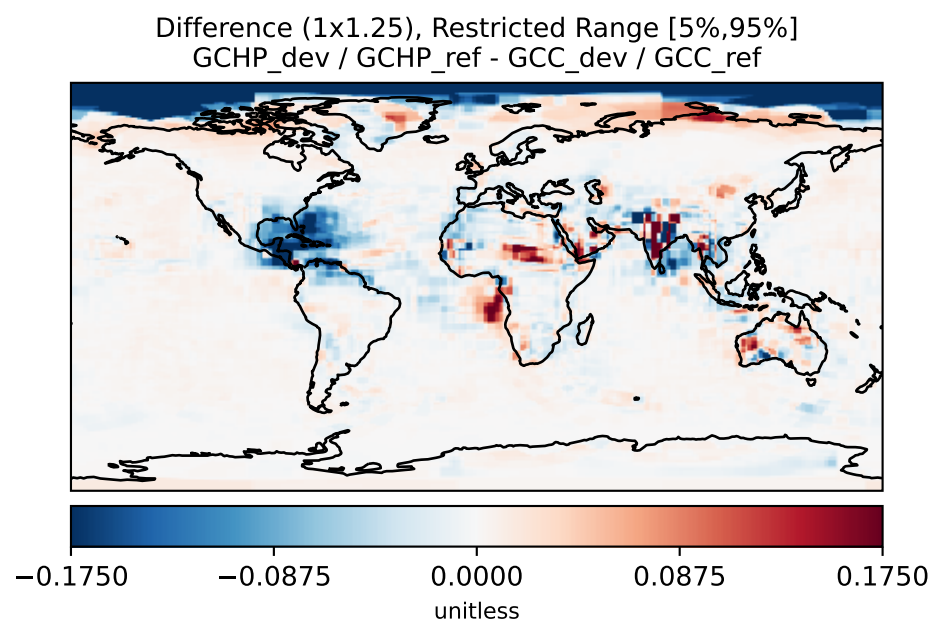
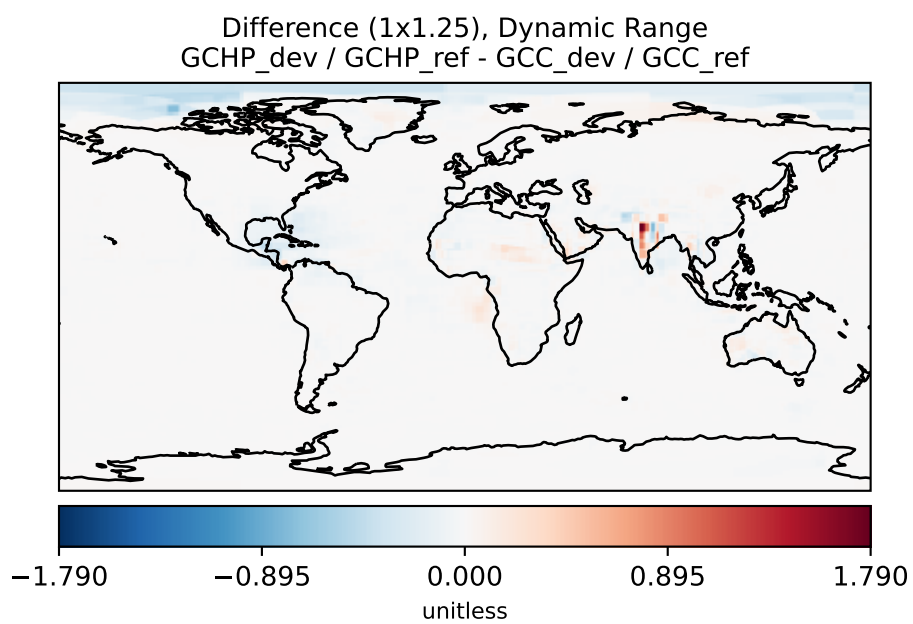
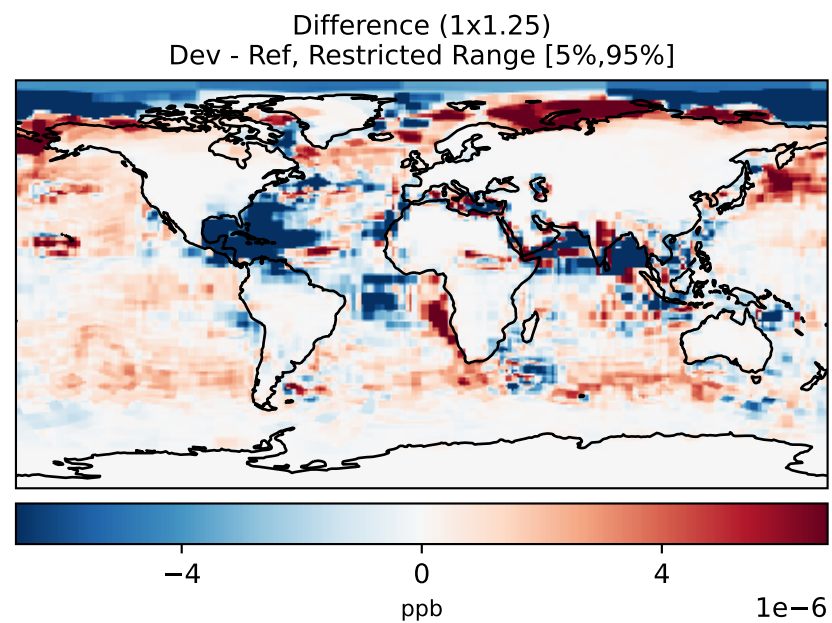
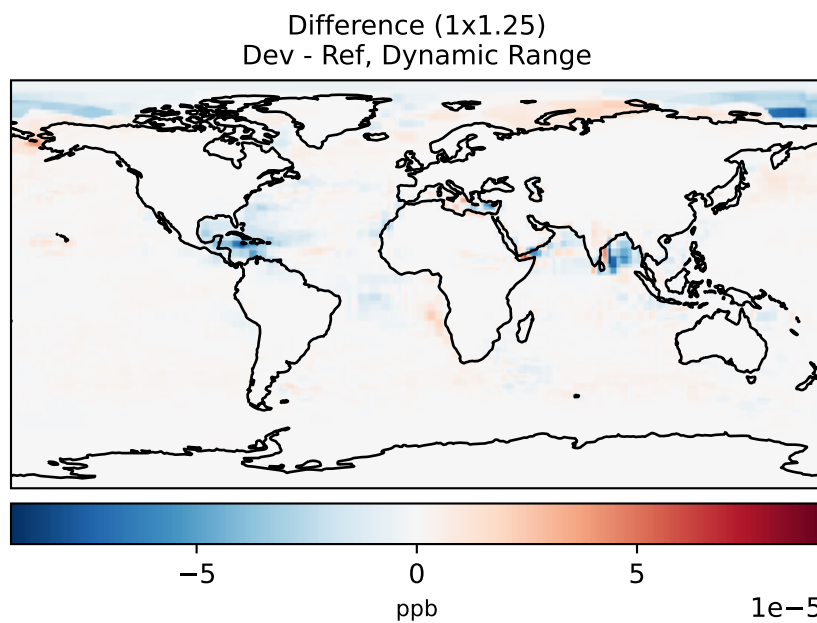
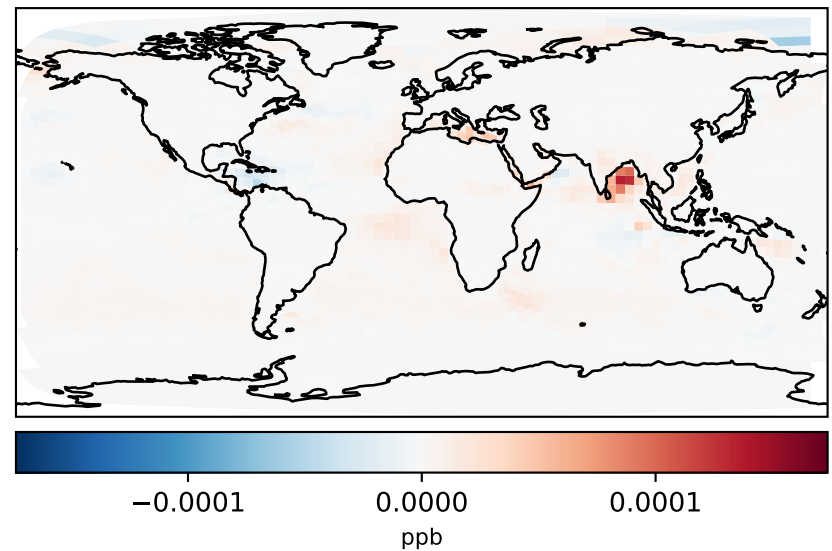
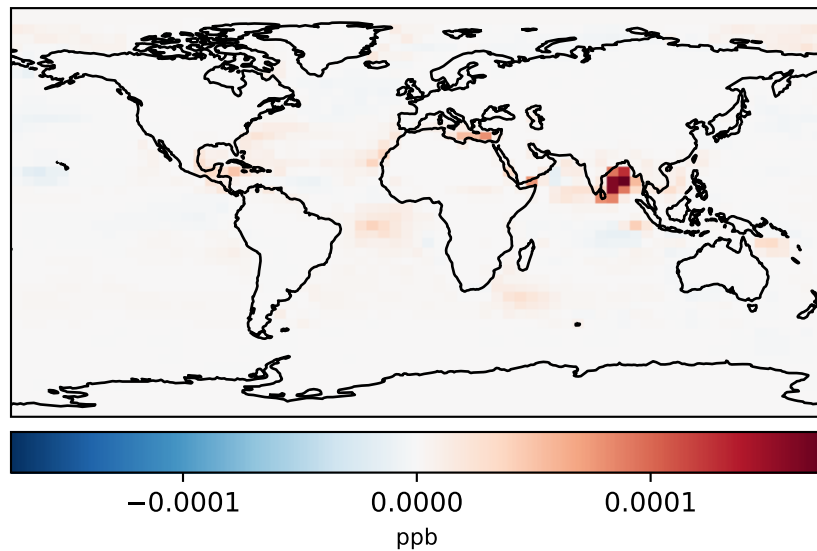
SpeciesConcVV_AERI

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



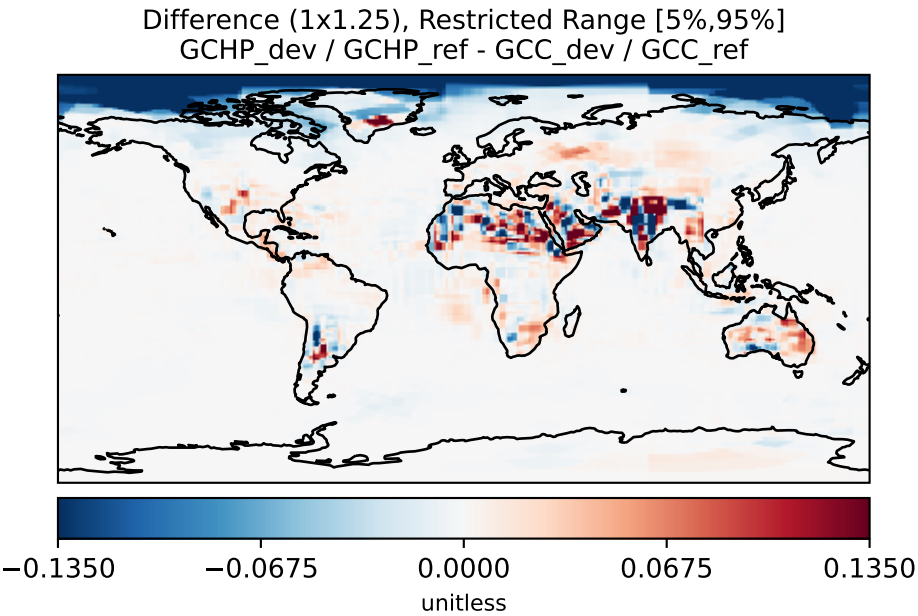
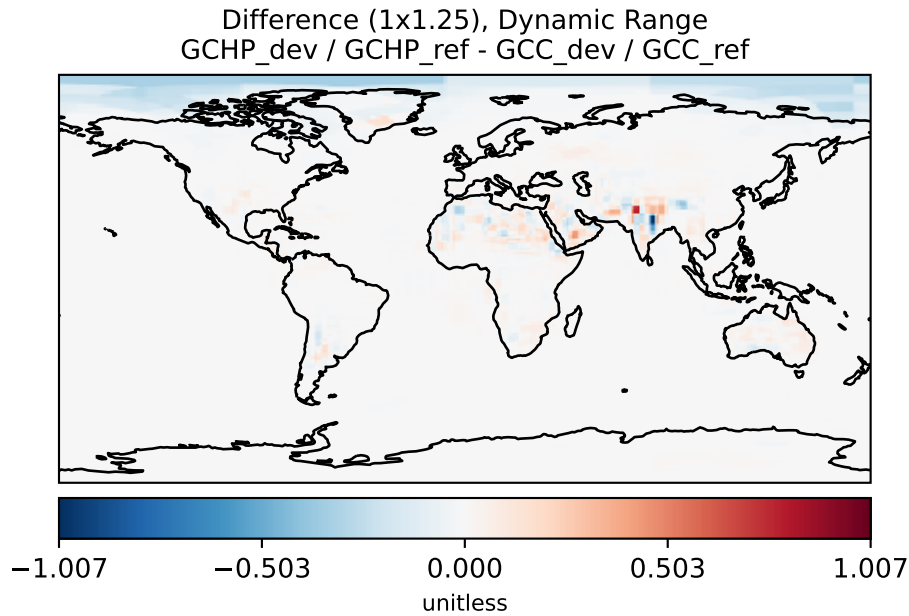
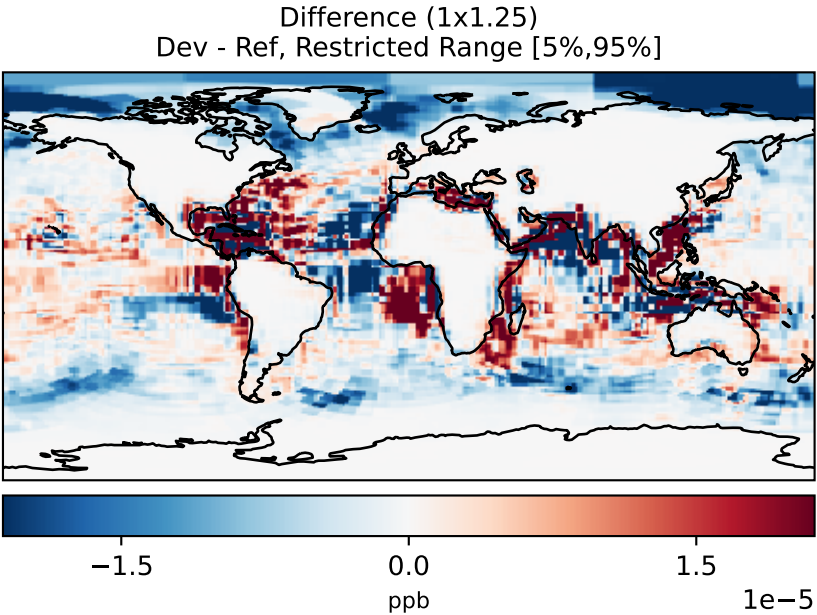
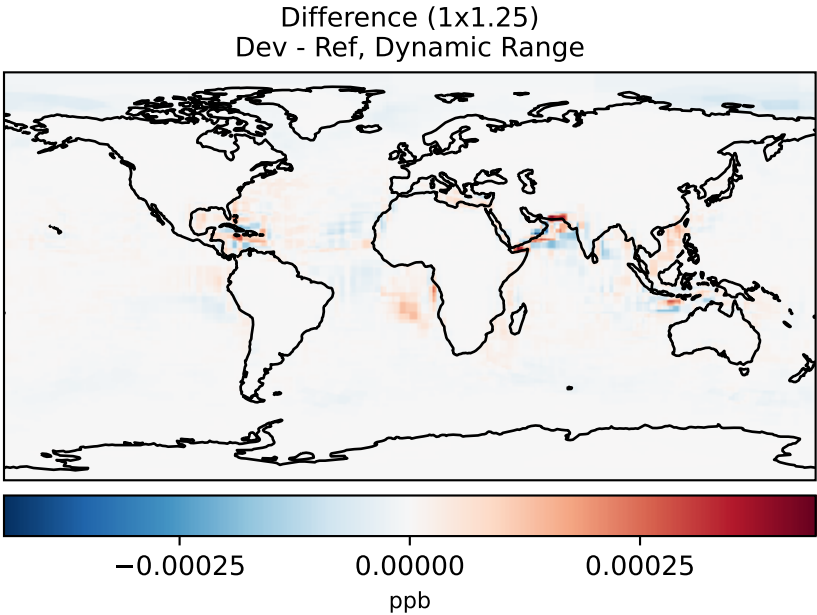
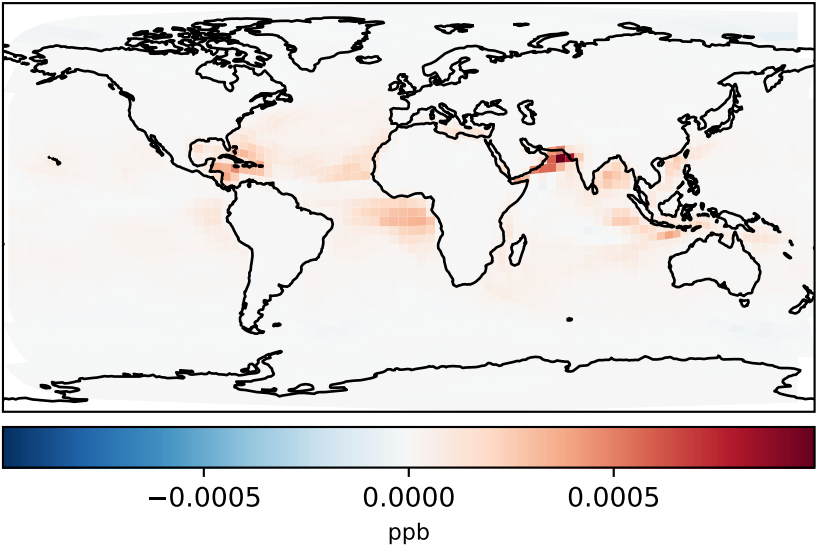
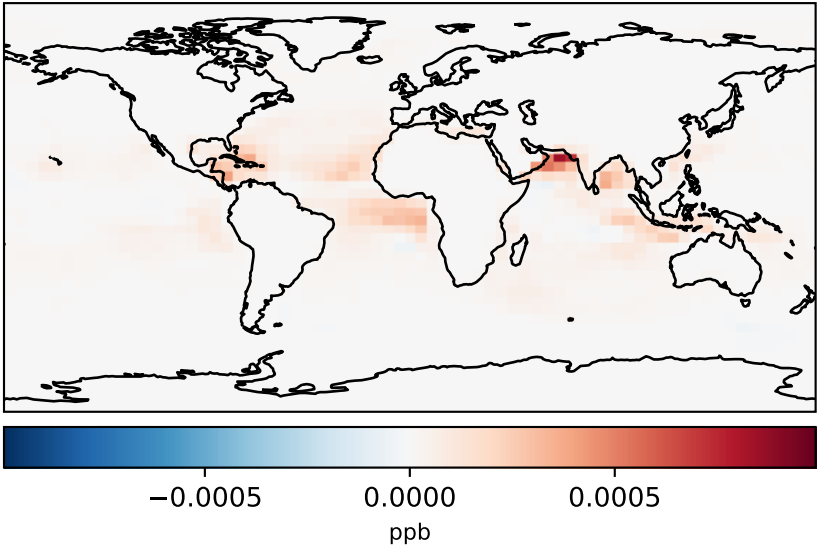
SpeciesConcVW_BrSALA

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



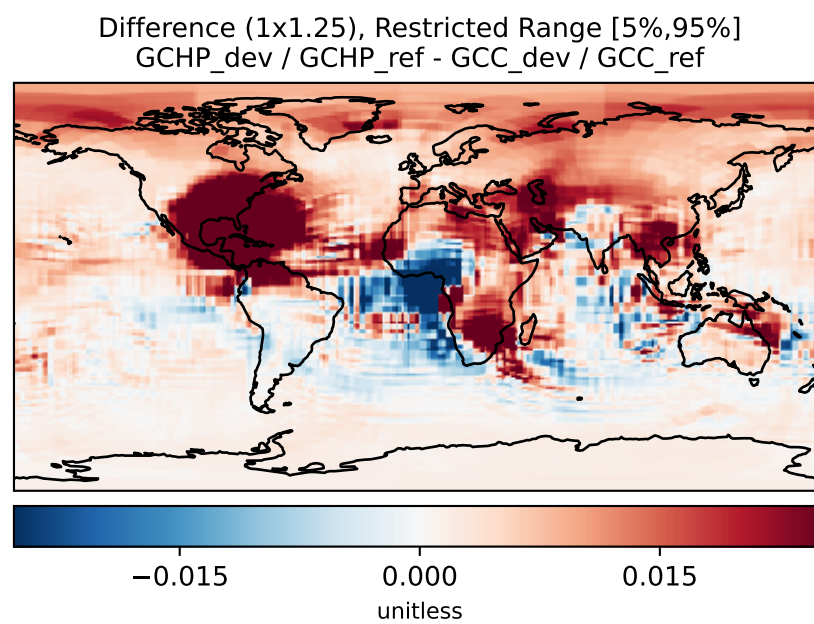
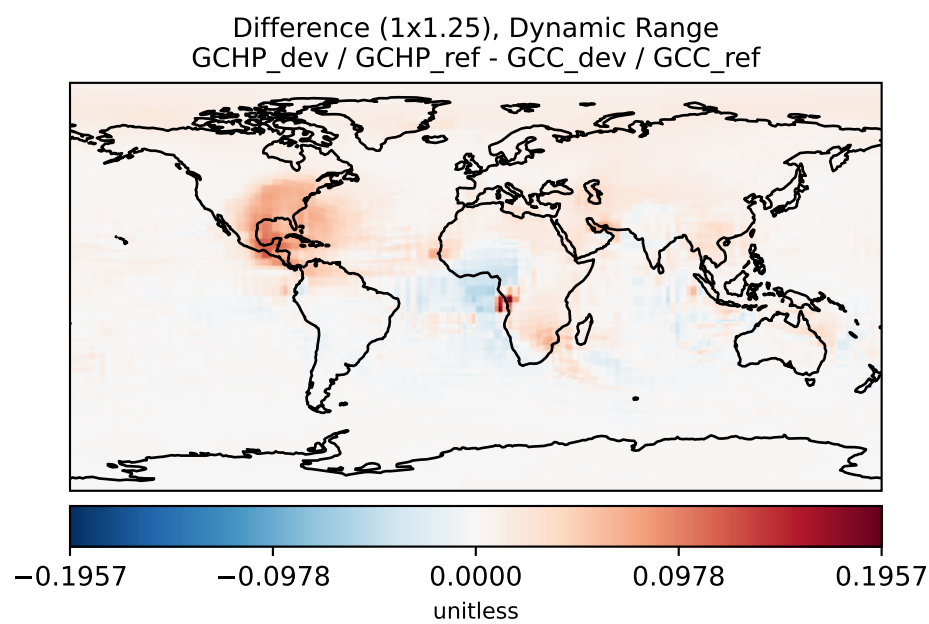
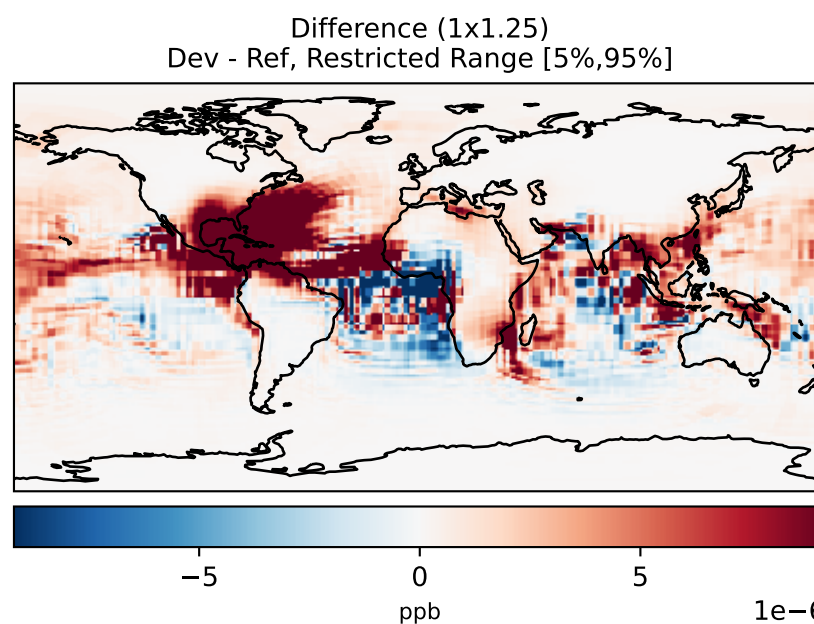
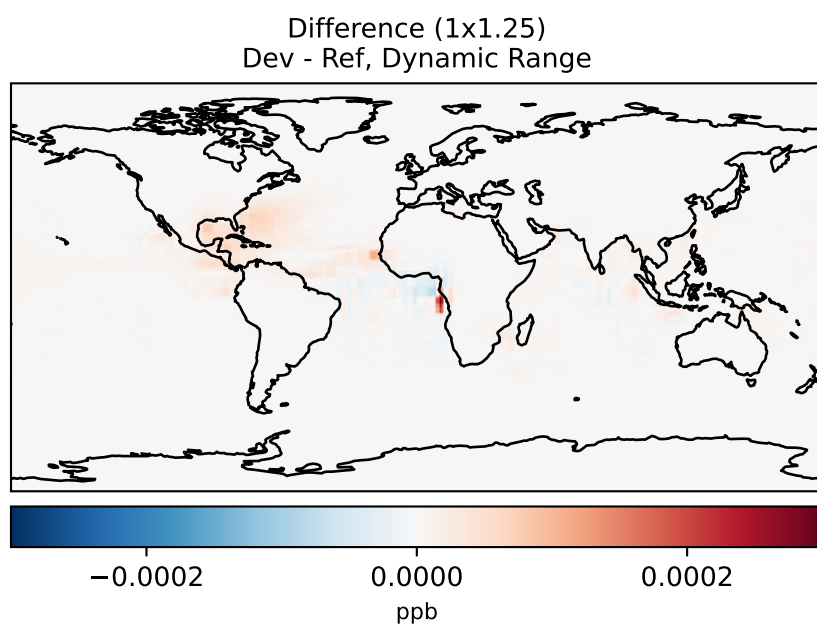
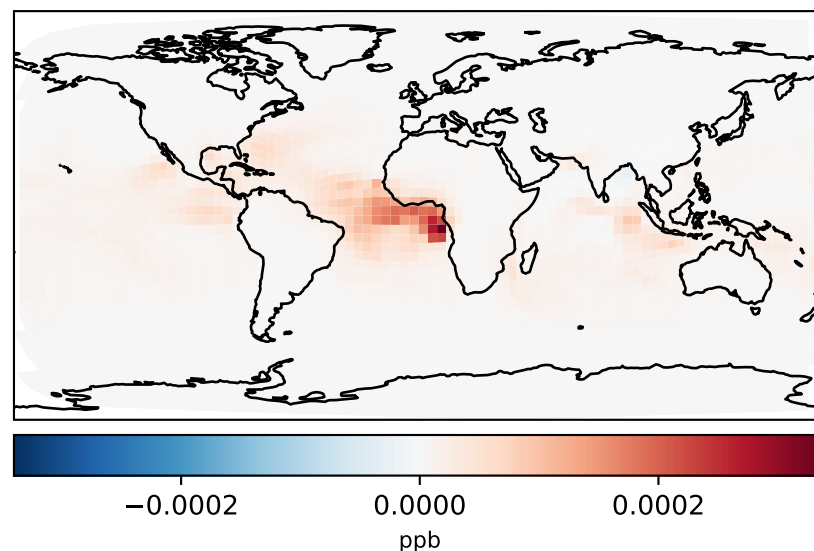
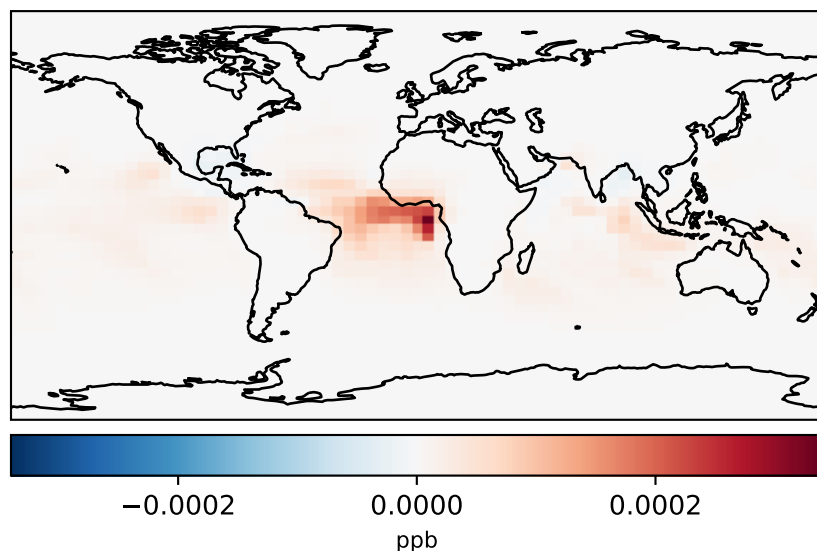
SpeciesConcVW_BrSALC

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



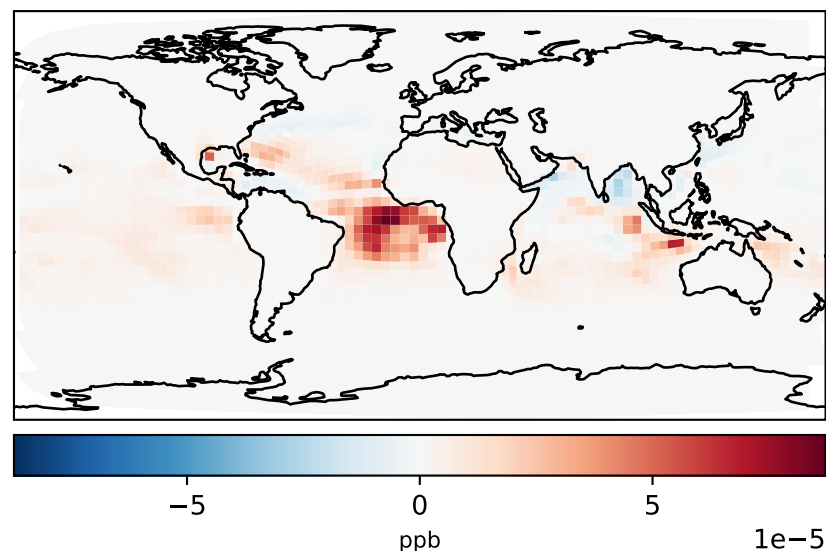
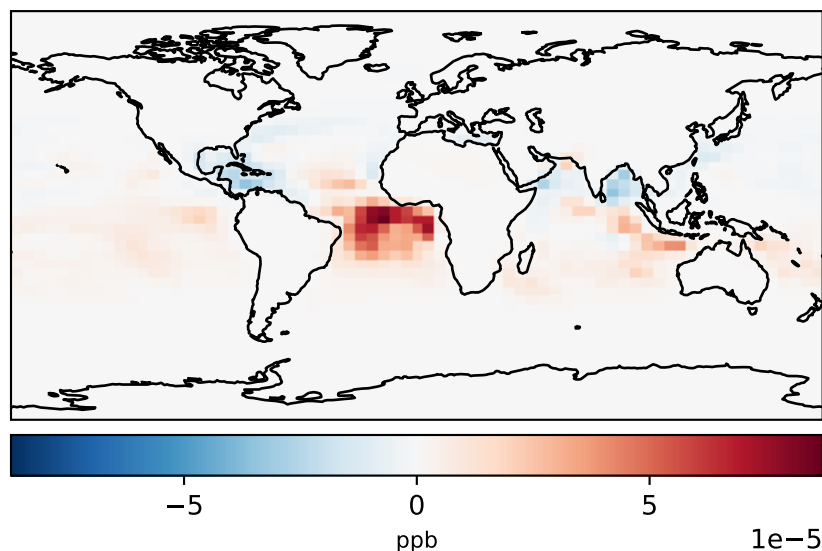
SpeciesConcVV_ISALA

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24

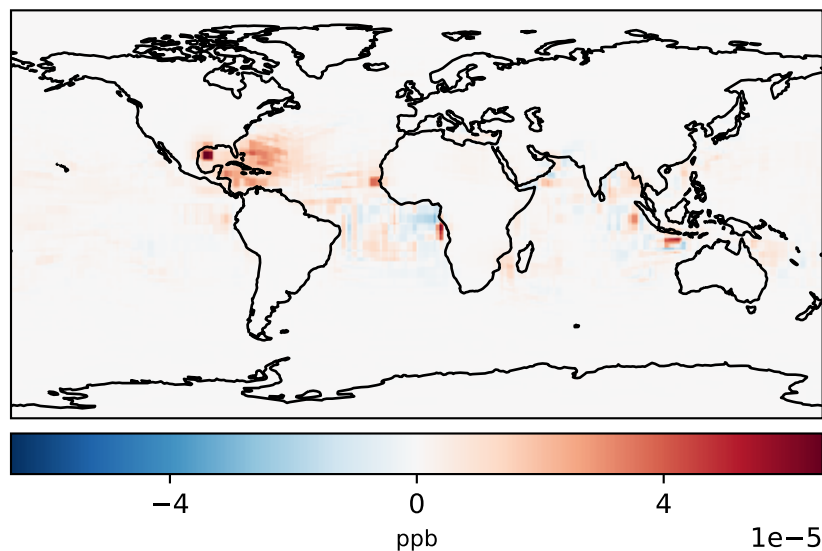


SpeciesConcVV_ISALC

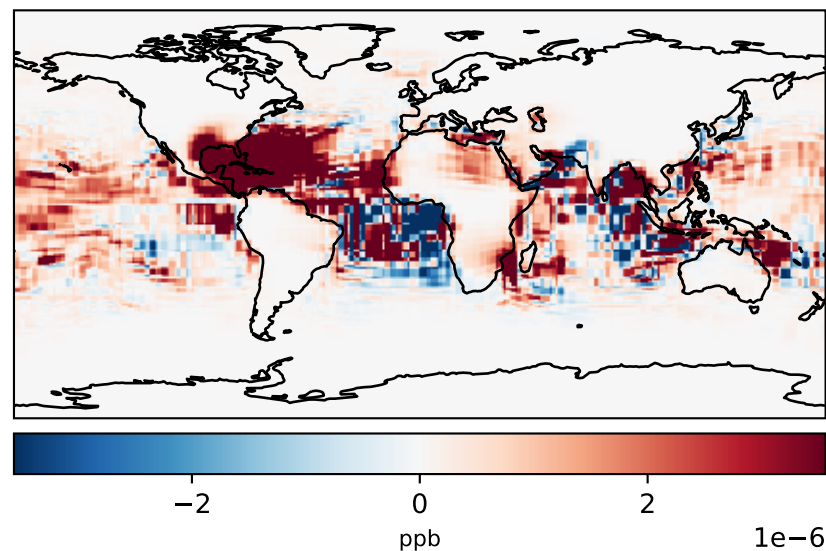
gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



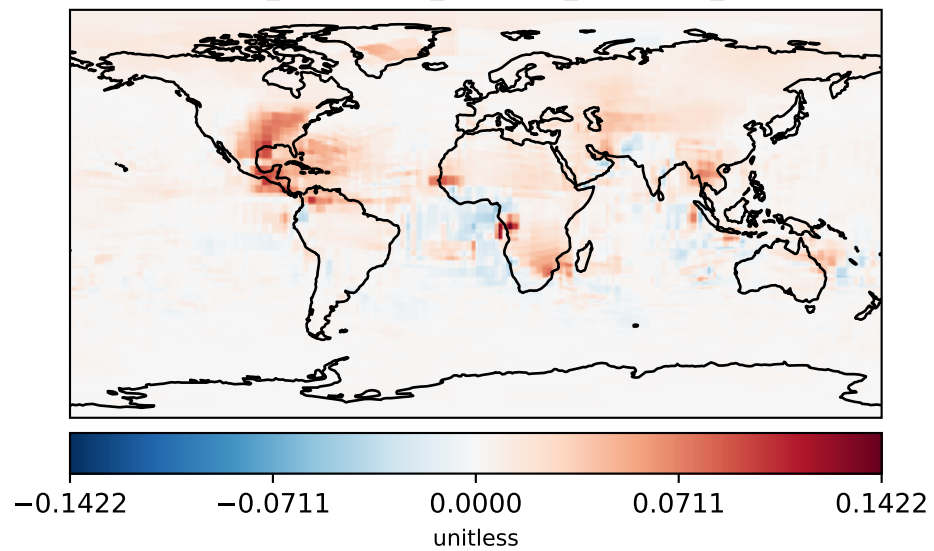
Difference (1x1.25)
Dev - Ref, Dynamic Range



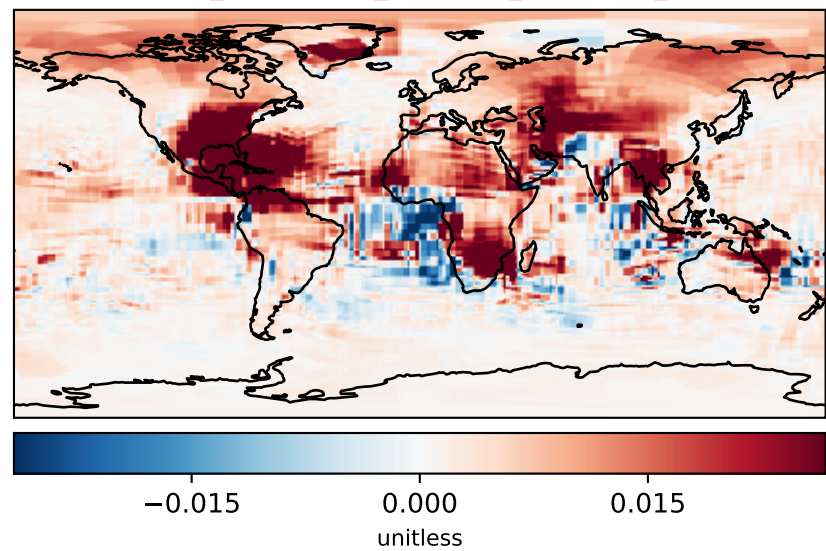
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
 $GCHP_dev / GCHP_ref - GCC_dev / GCC_ref$

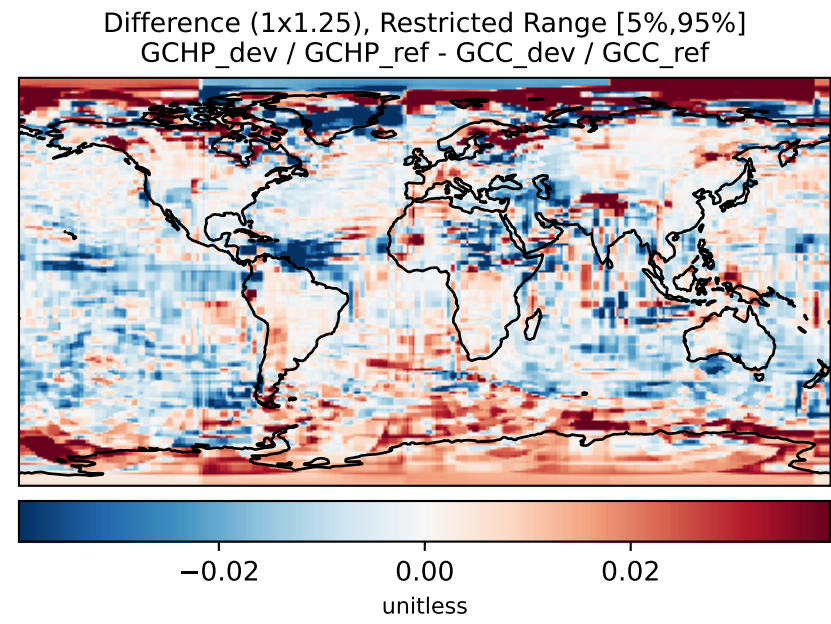
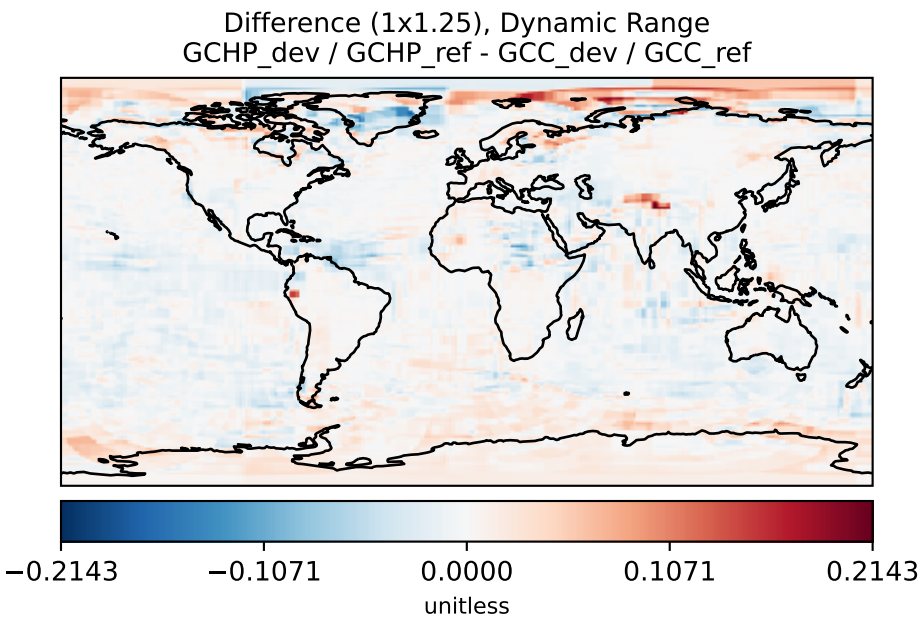
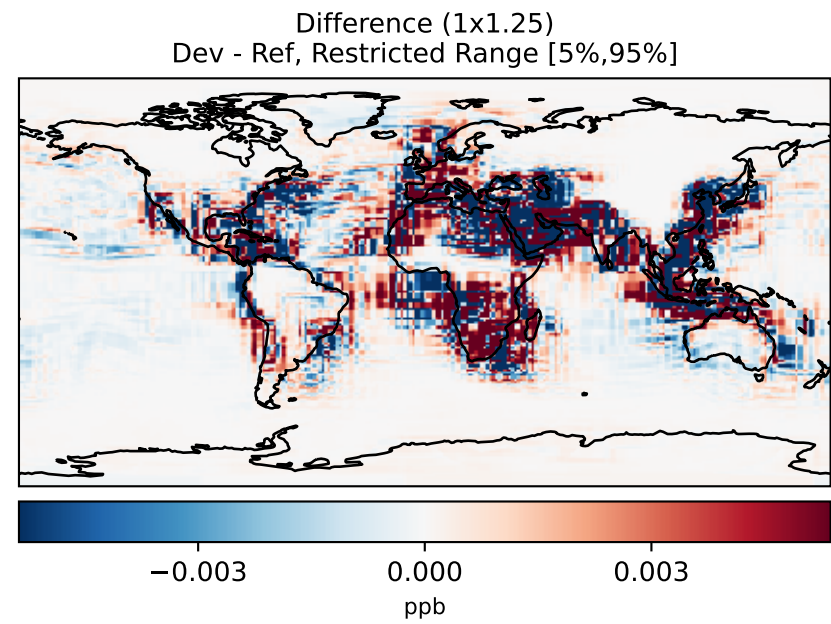
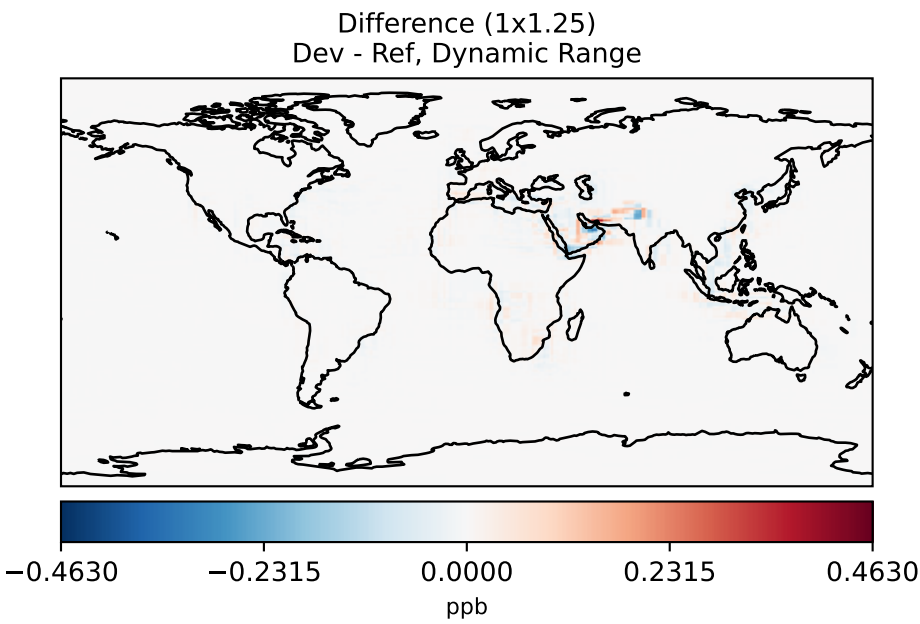
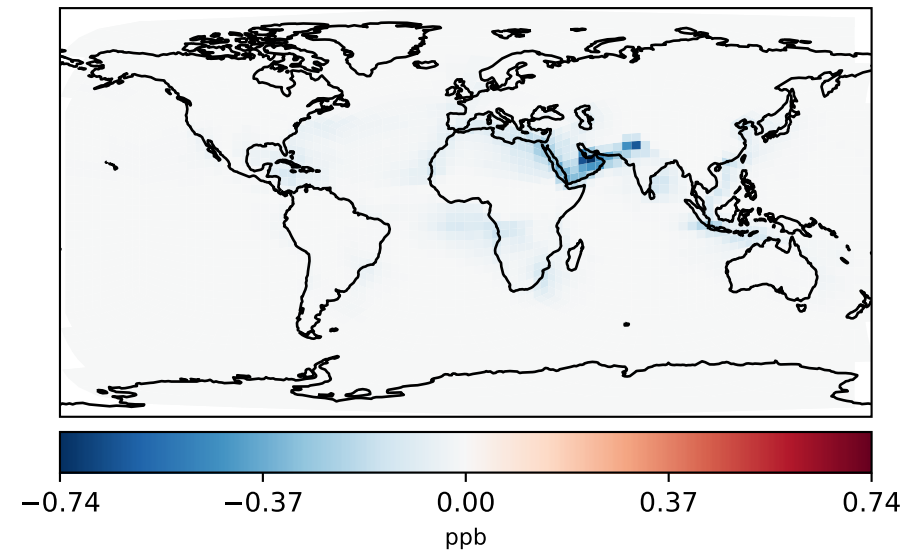
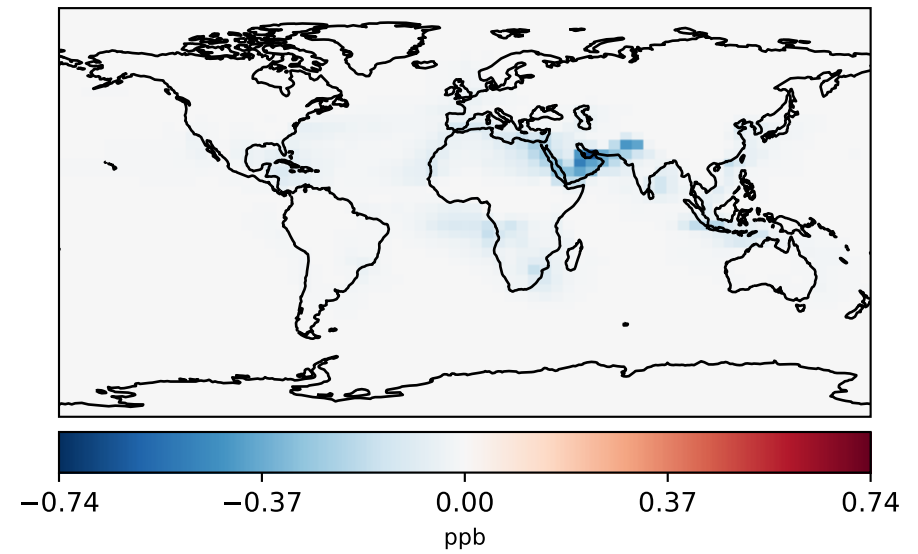


Difference (1x1.25), Restricted Range [5%,95%]
 $GCHP_dev / GCHP_ref - GCC_dev / GCC_ref$



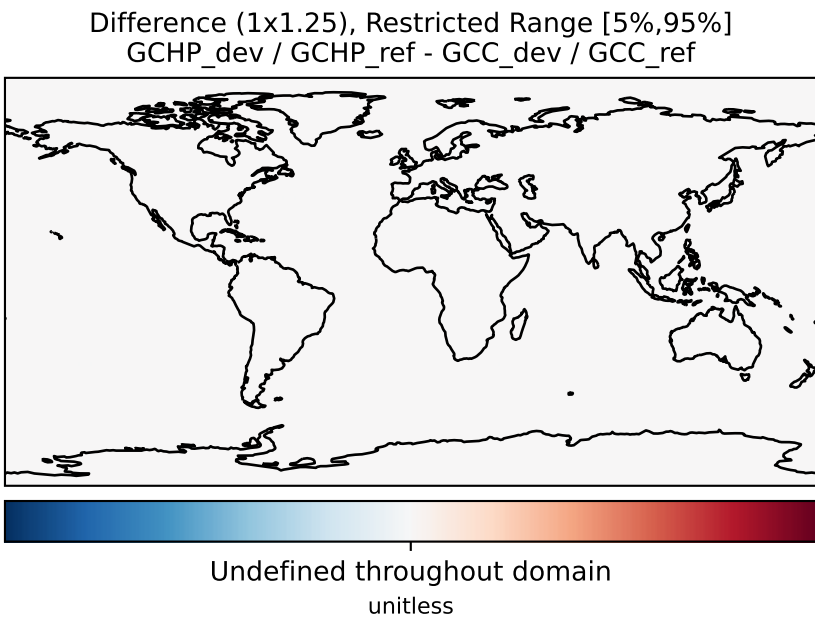
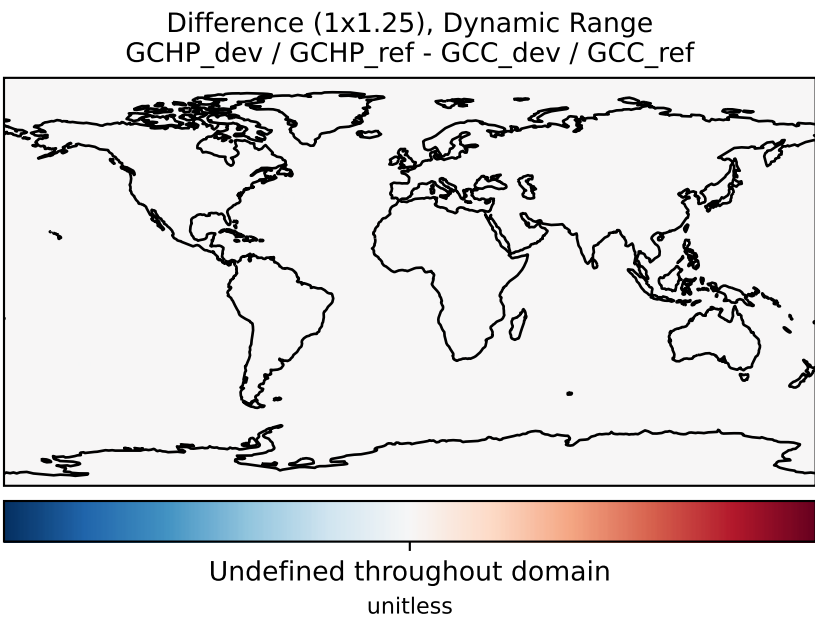
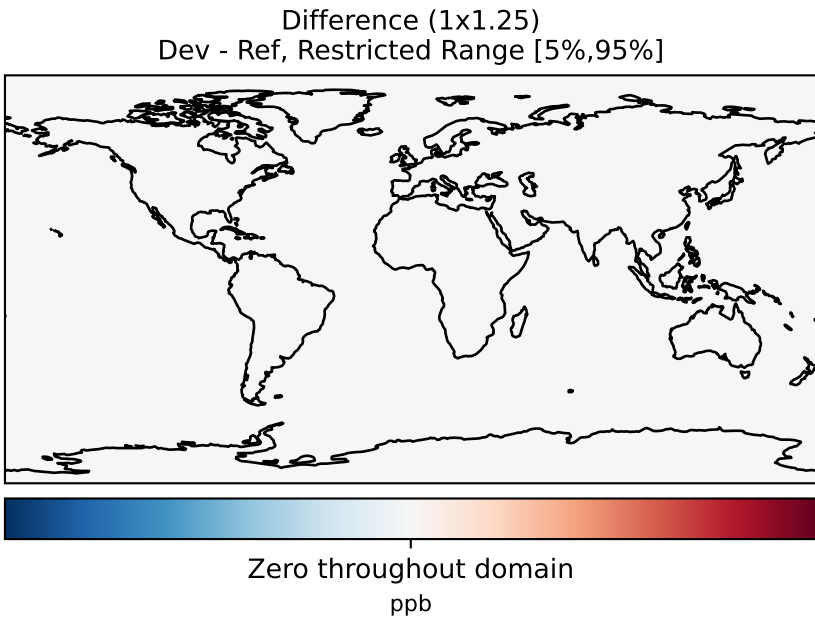
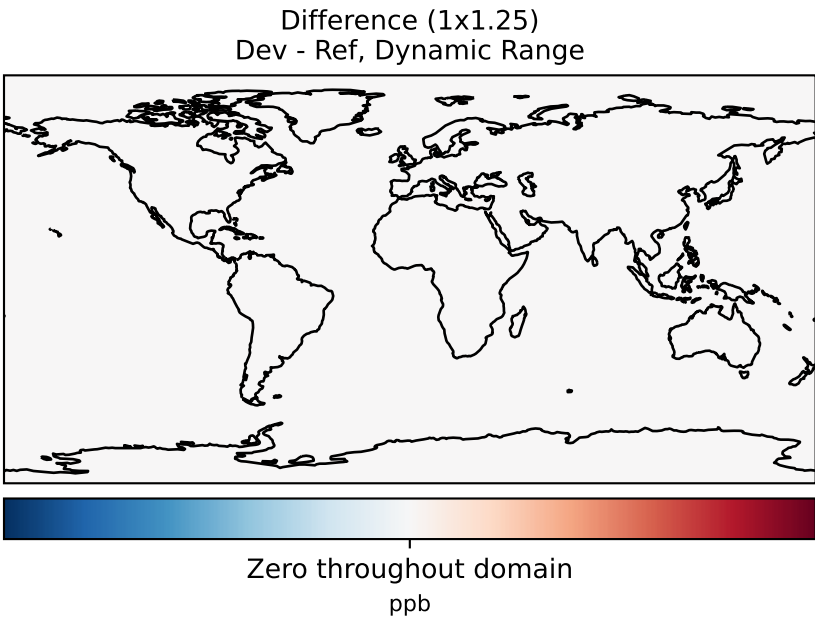
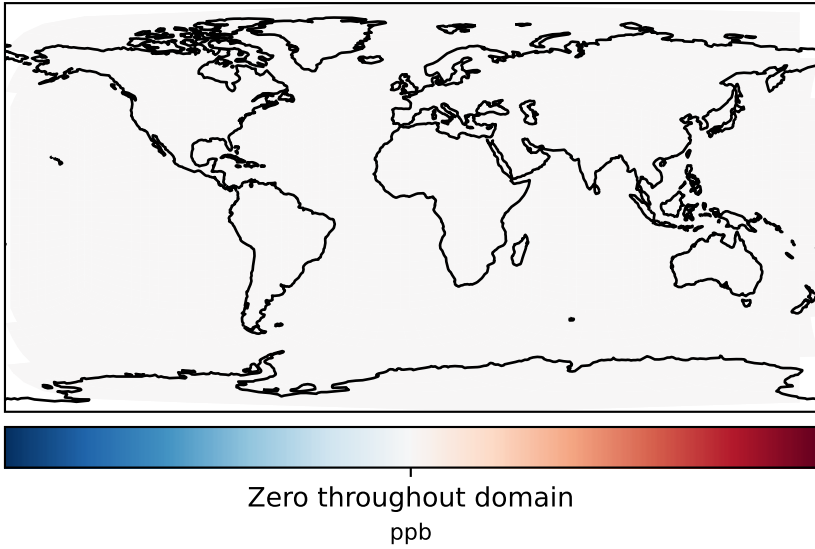
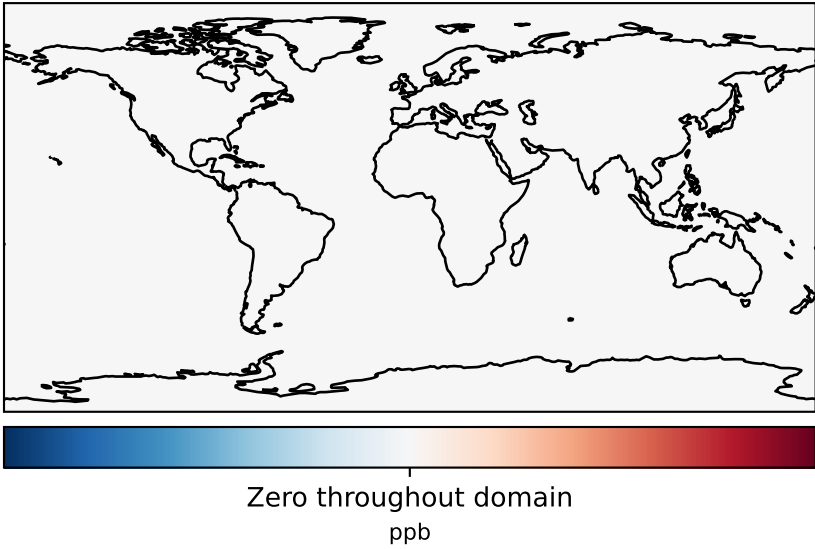
SpeciesConcVV_NITs

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



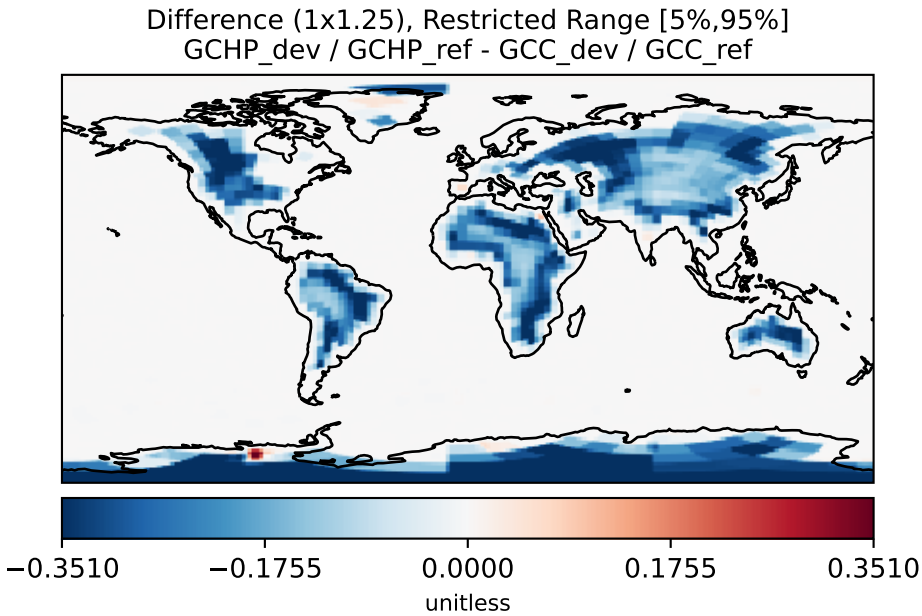
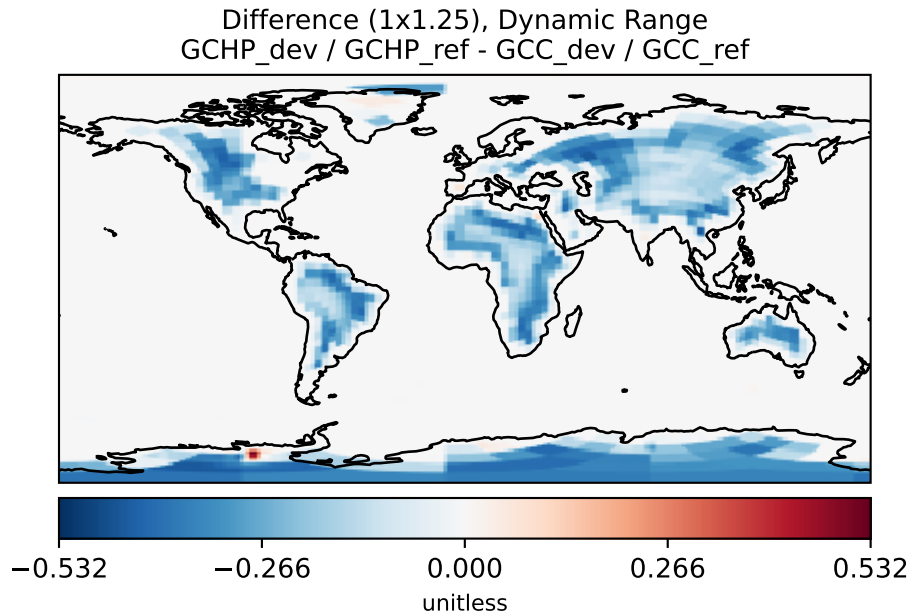
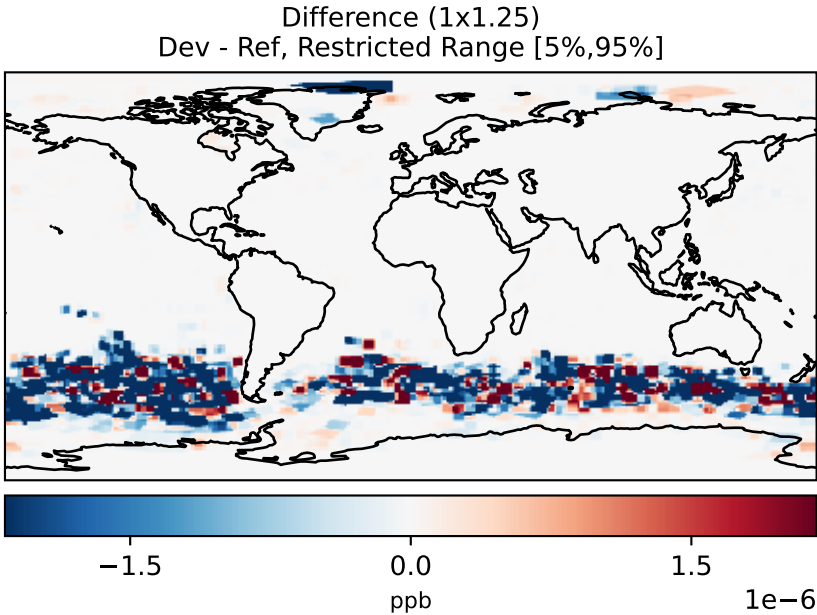
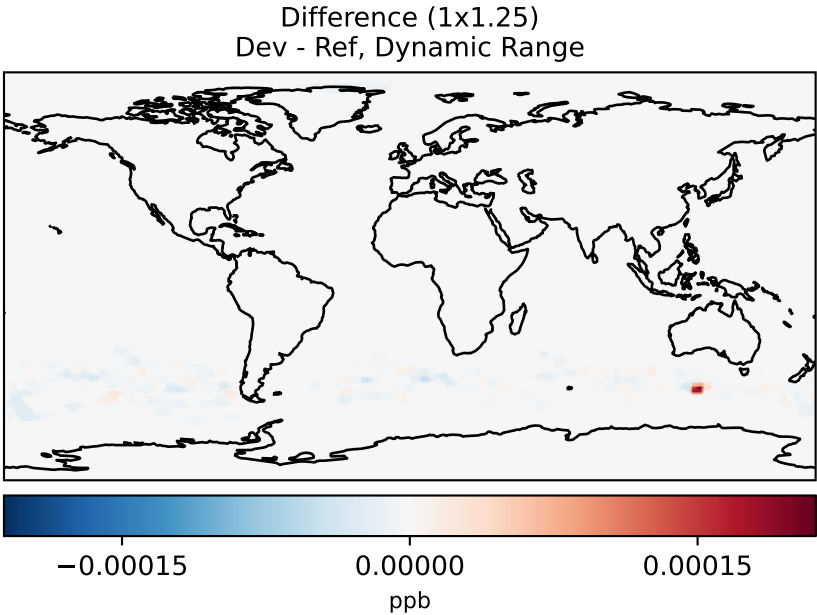
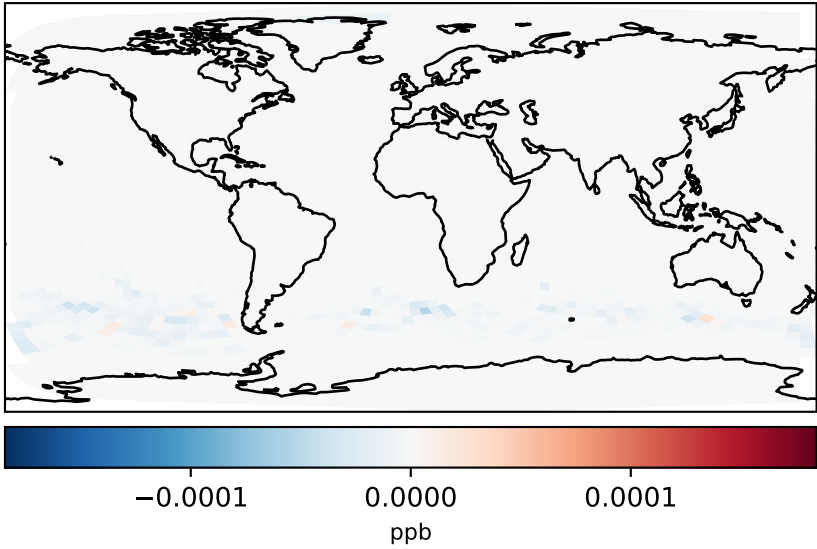
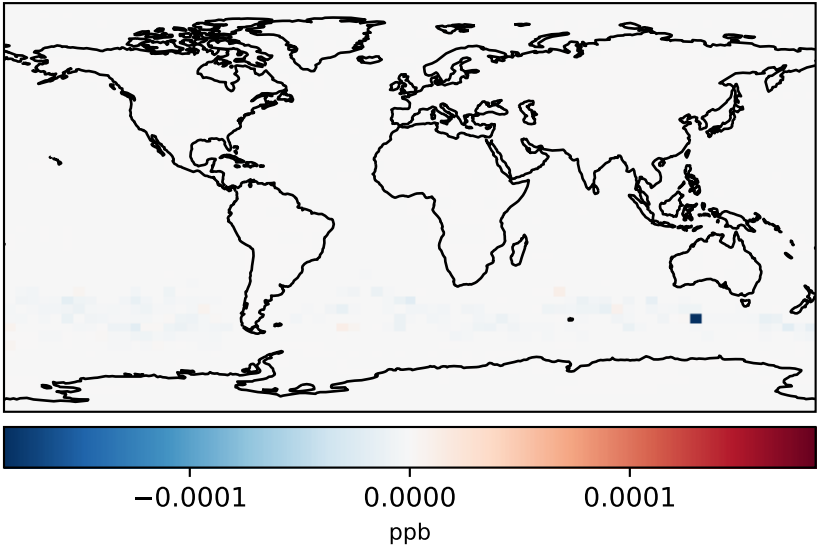
SpeciesConcVV_SALA

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



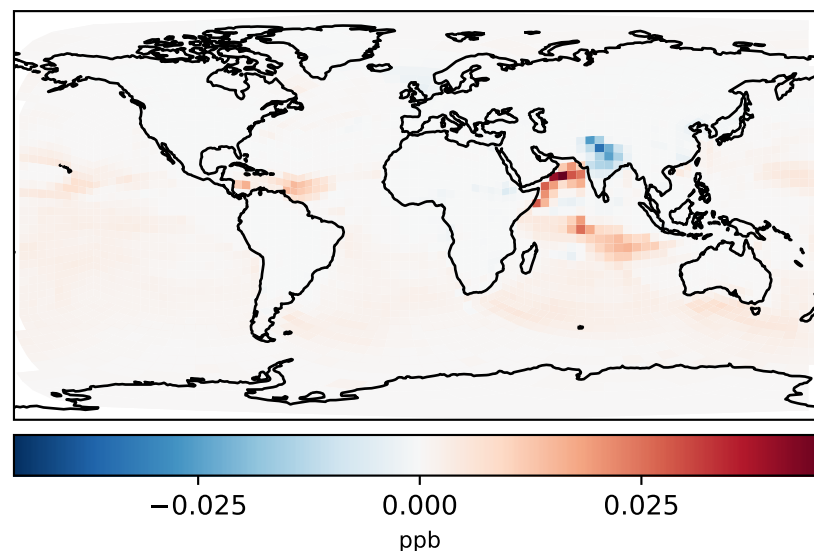
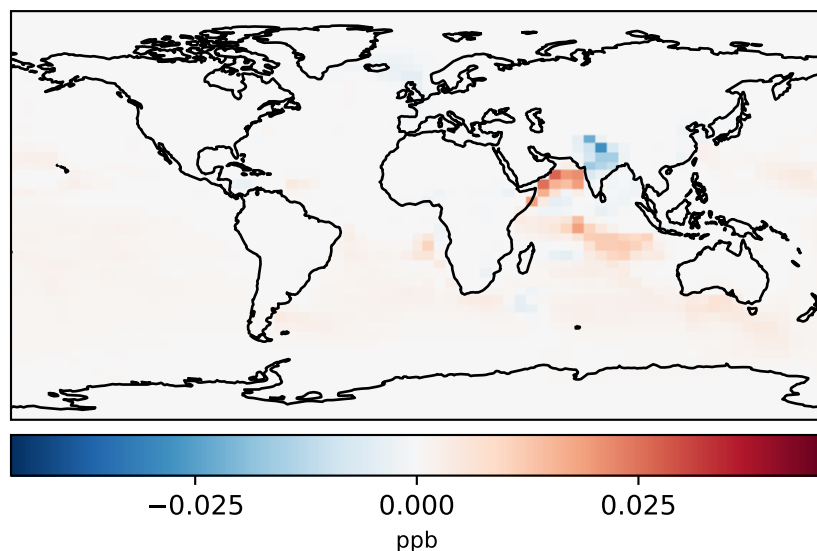
SpeciesConcVV_SALAAL

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24

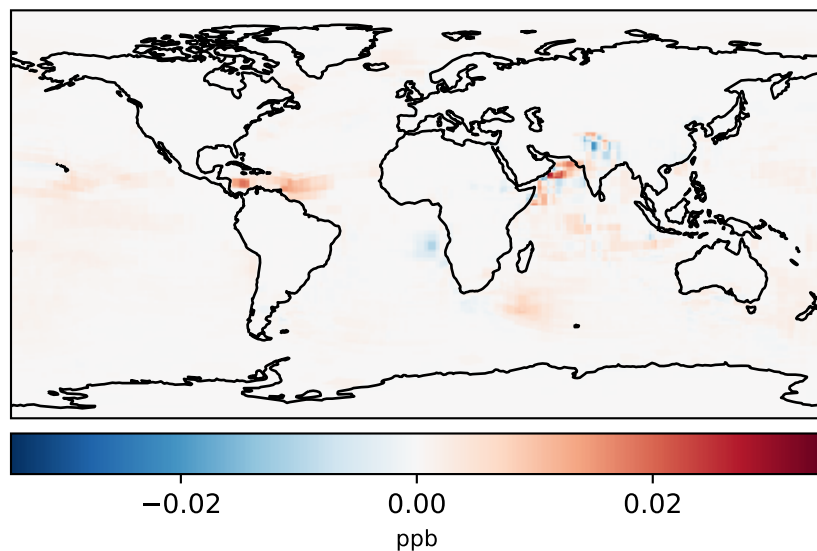


SpeciesConcVV_SALACL

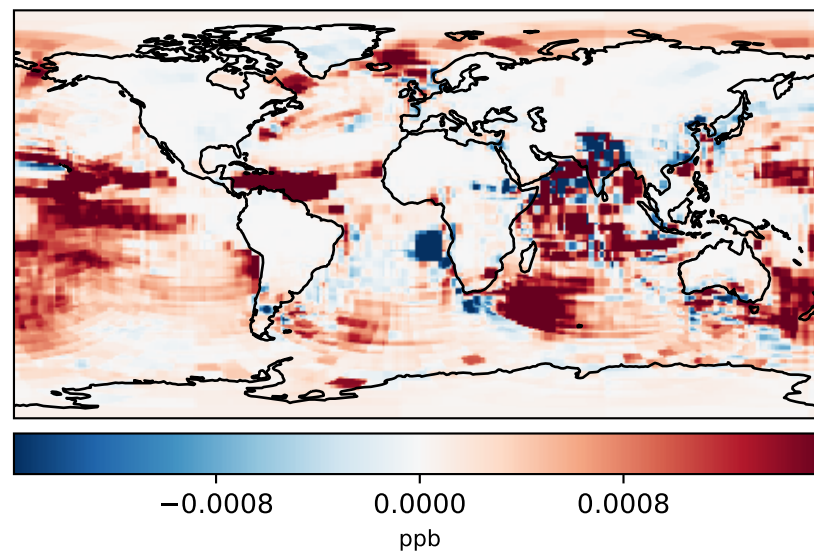
gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



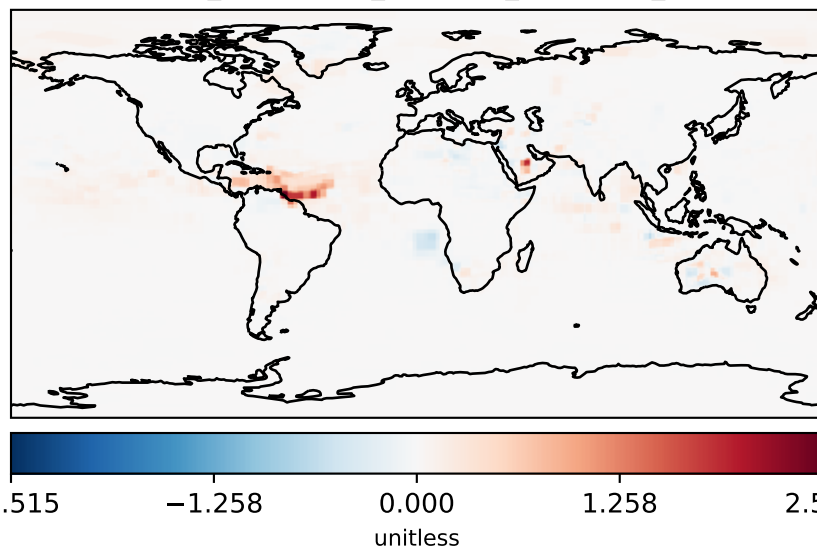
Difference (1x1.25)
Dev - Ref, Dynamic Range



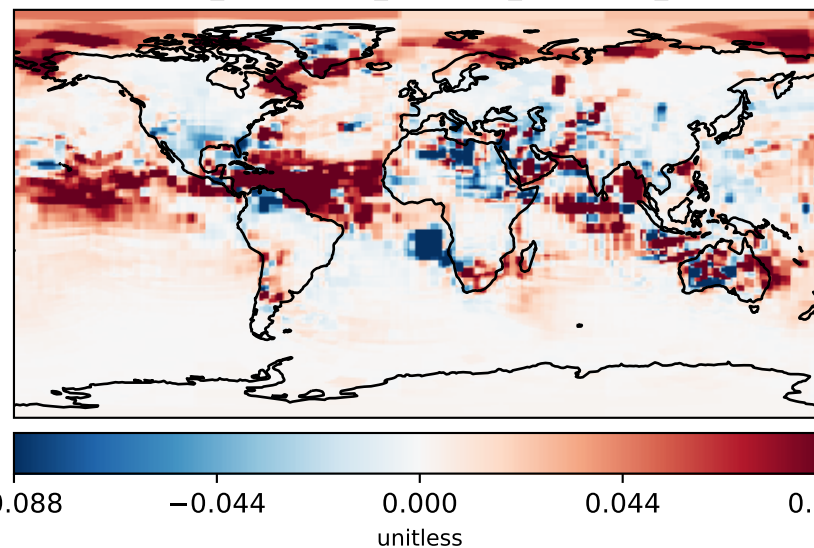
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Difference (1x1.25), Dynamic Range
 $\text{GCHP_dev} / \text{GCHP_ref} - \text{GCC_dev} / \text{GCC_ref}$

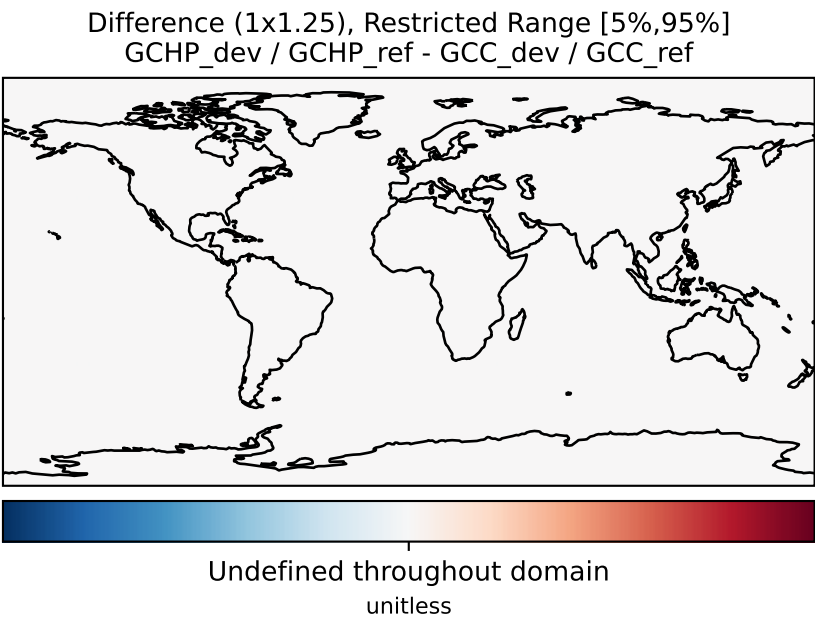
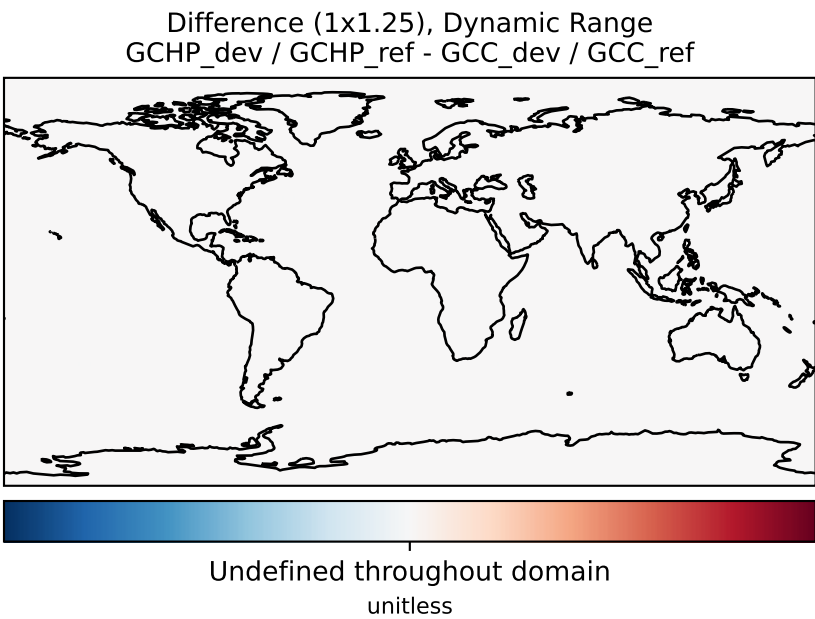
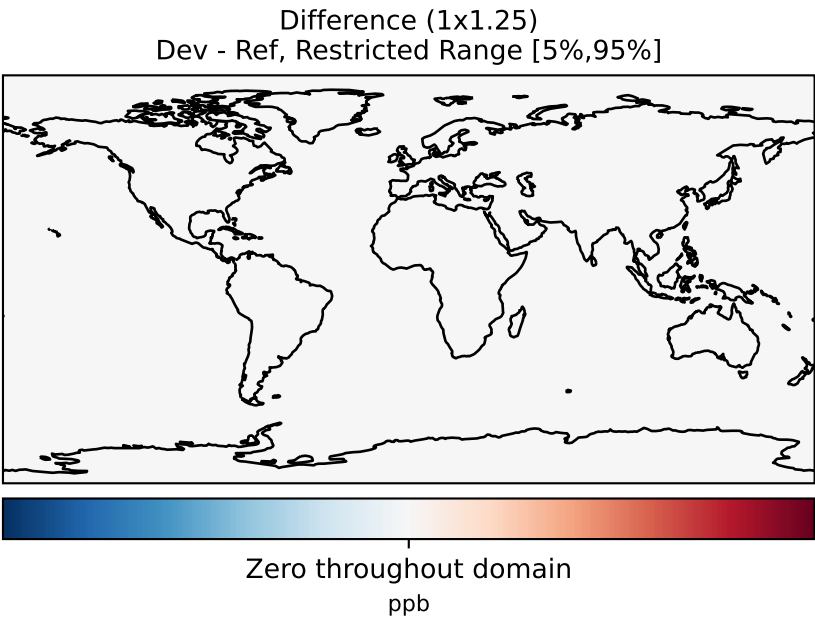
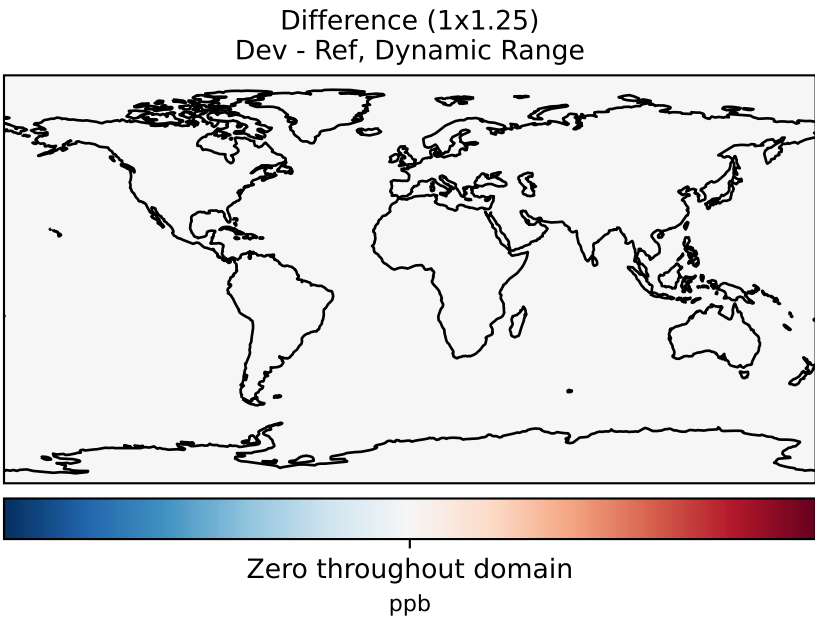
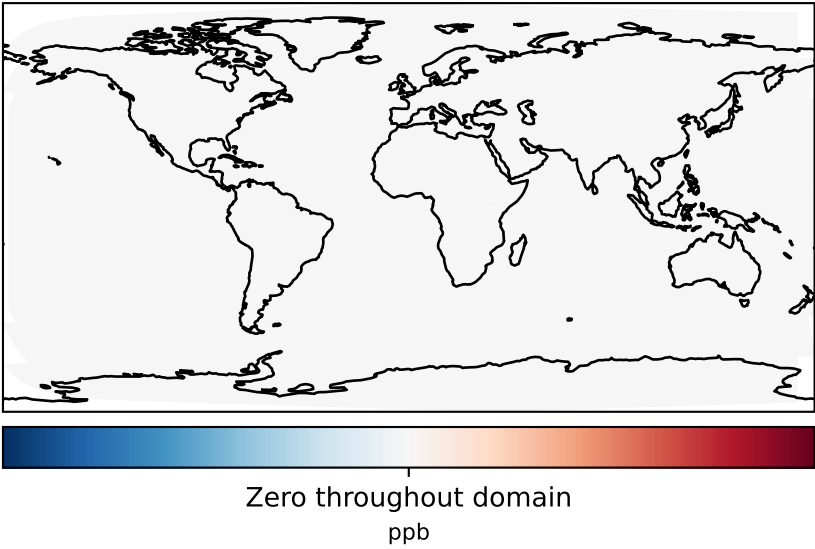
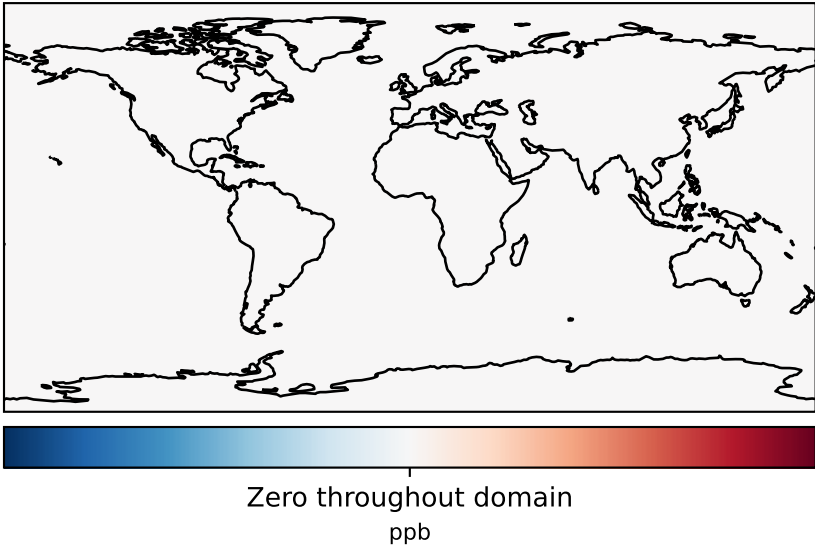


Difference (1x1.25), Restricted Range [5%,95%]
 $\text{GCHP_dev} / \text{GCHP_ref} - \text{GCC_dev} / \text{GCC_ref}$



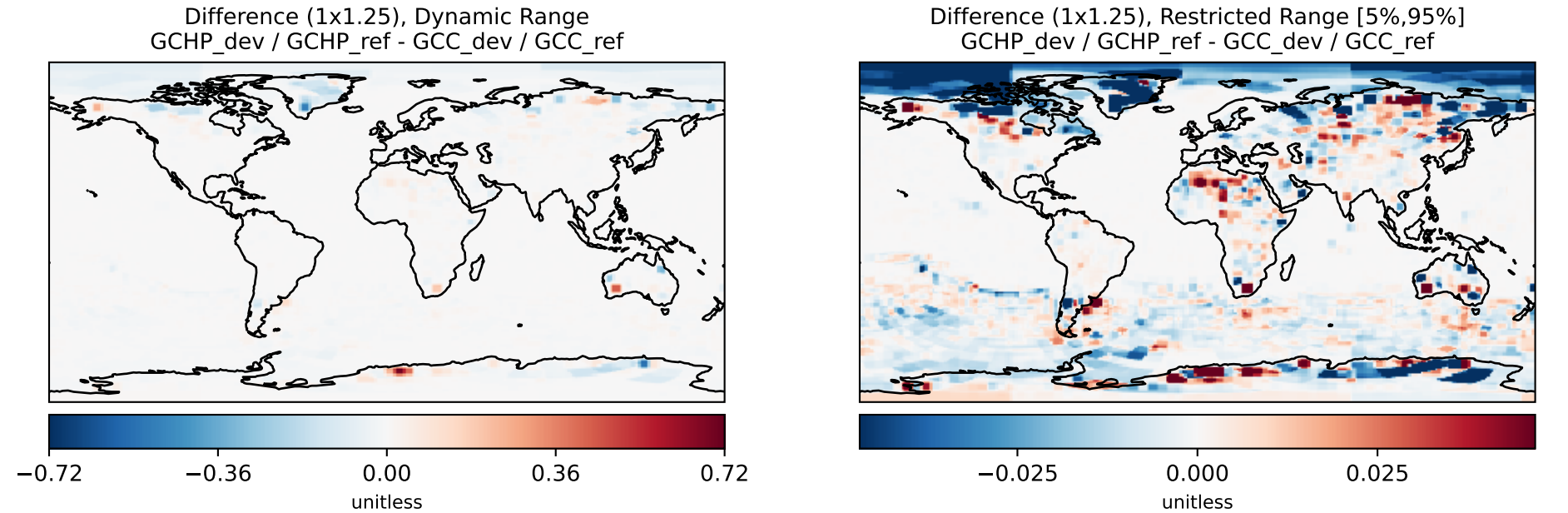
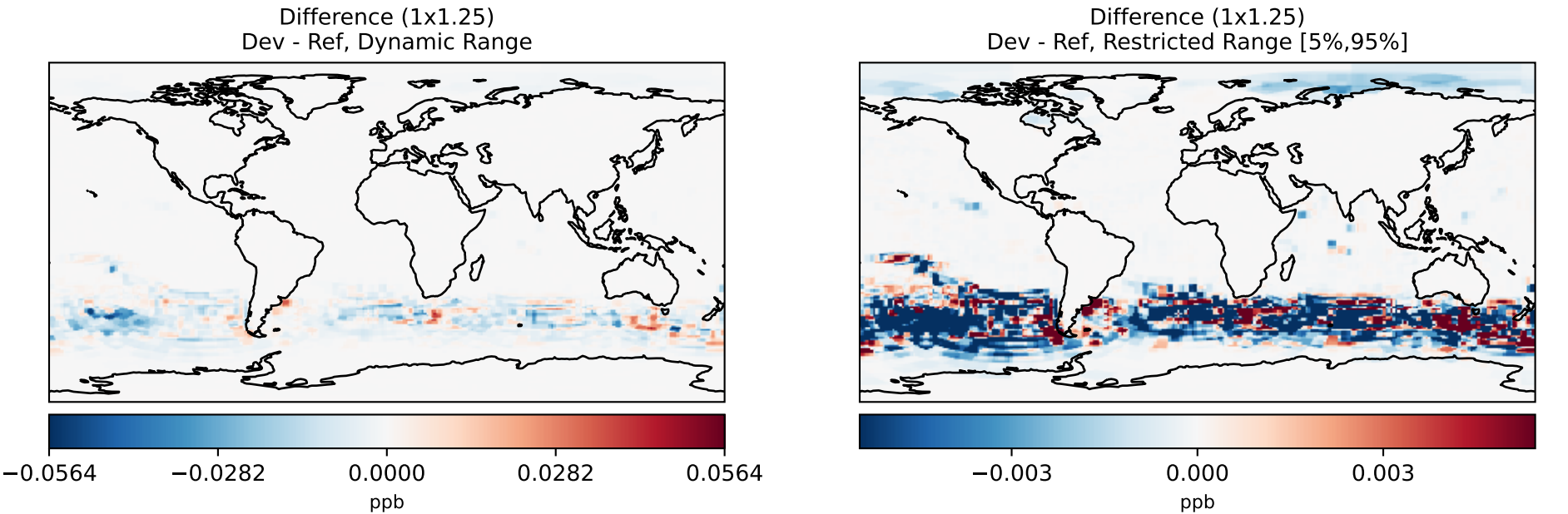
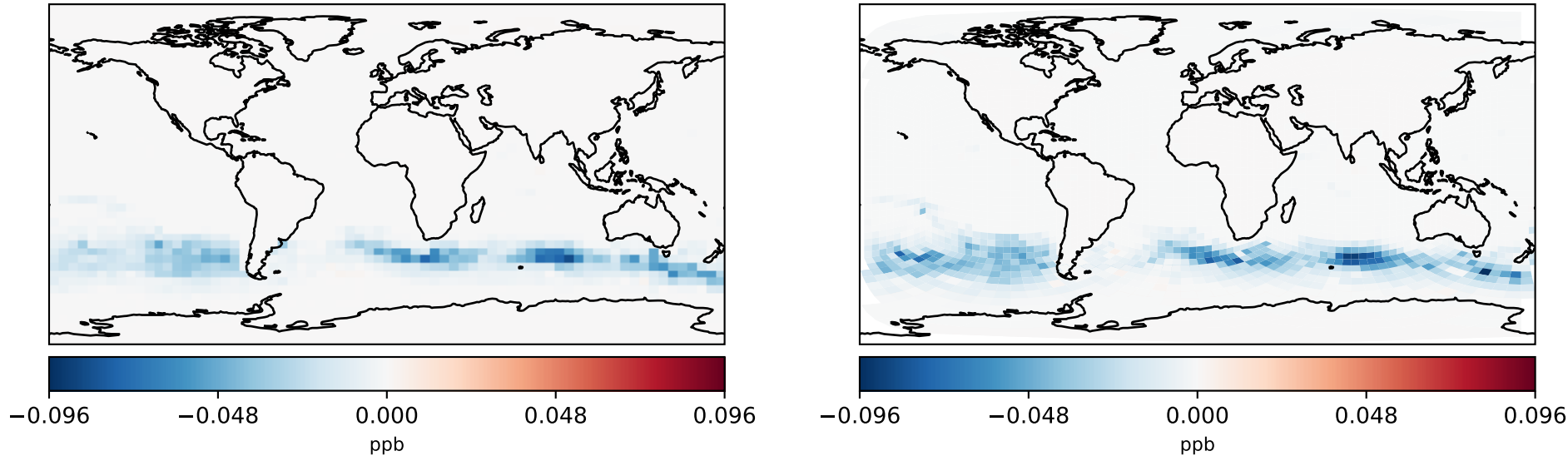
SpeciesConcVV_SALC

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



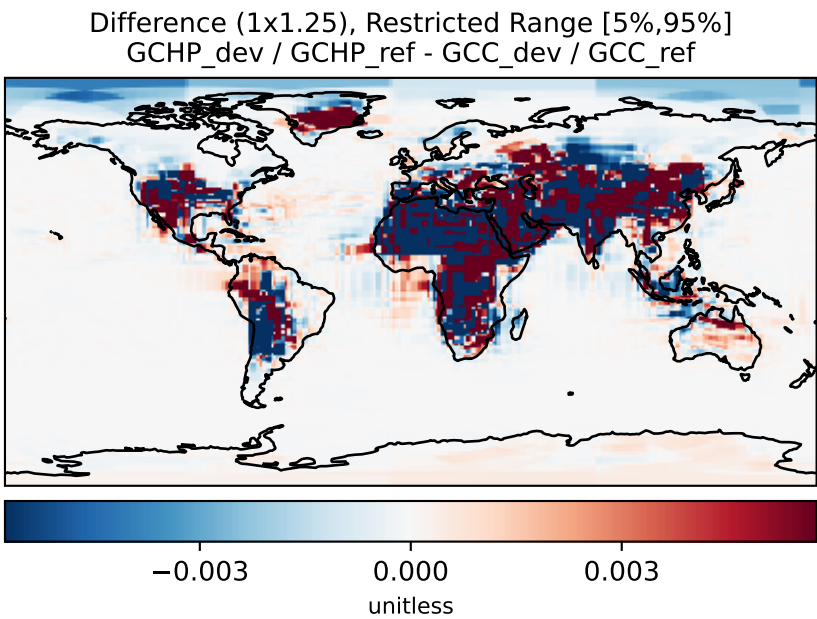
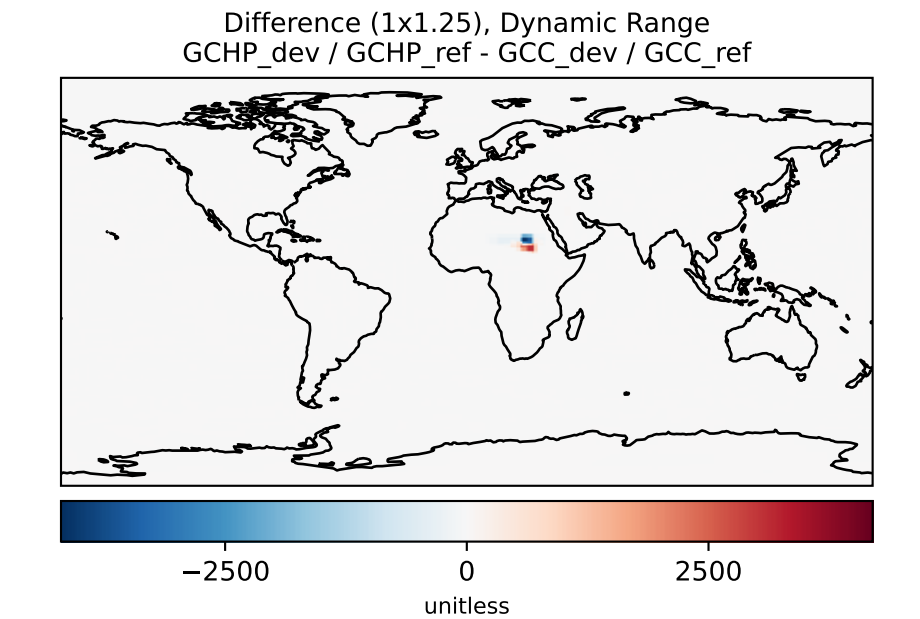
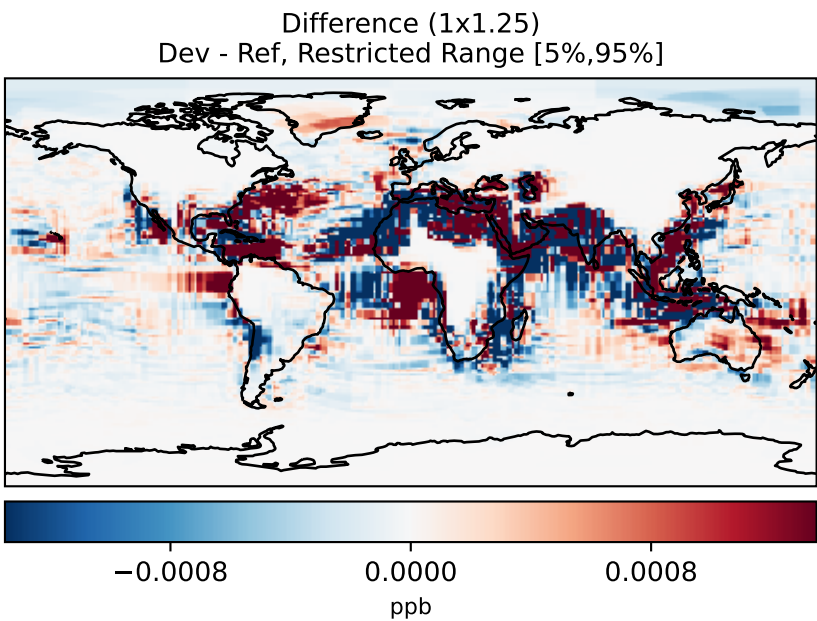
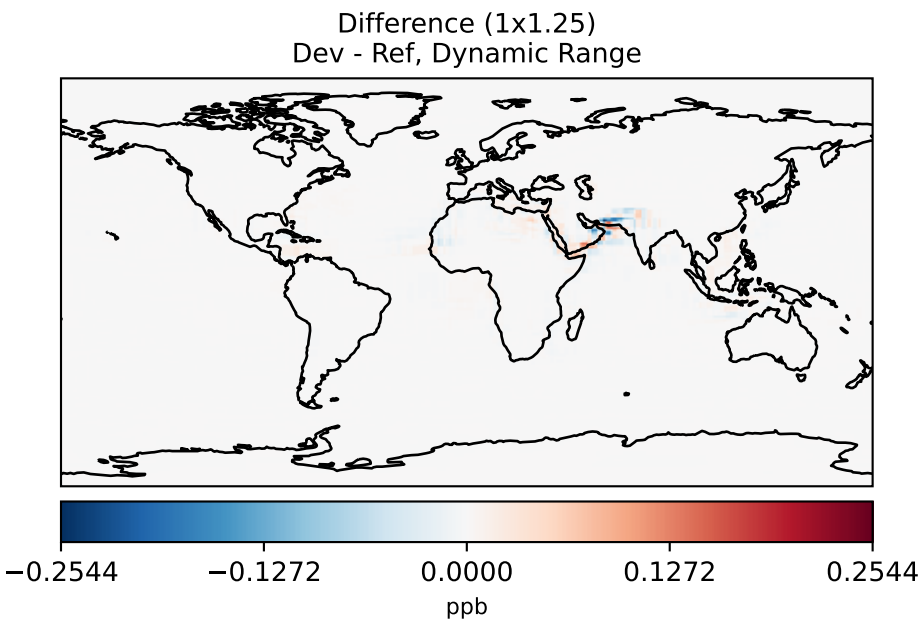
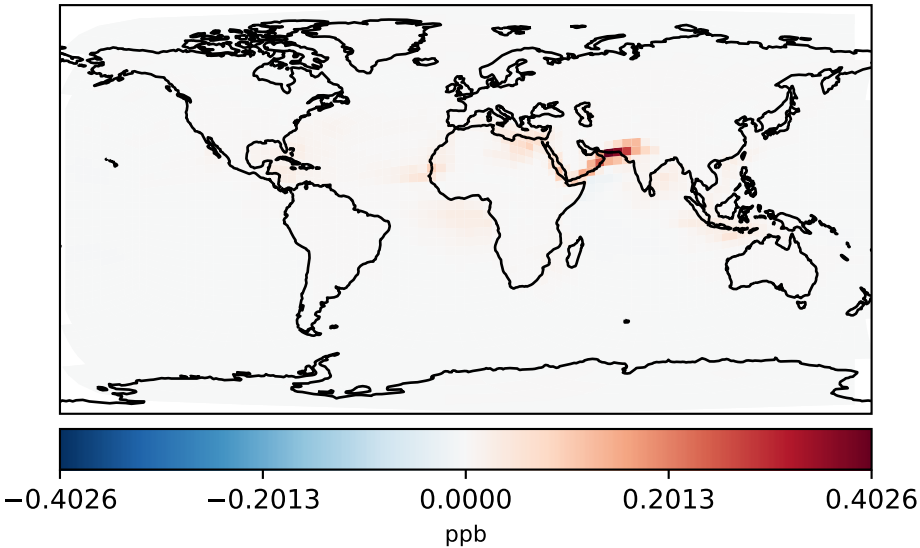
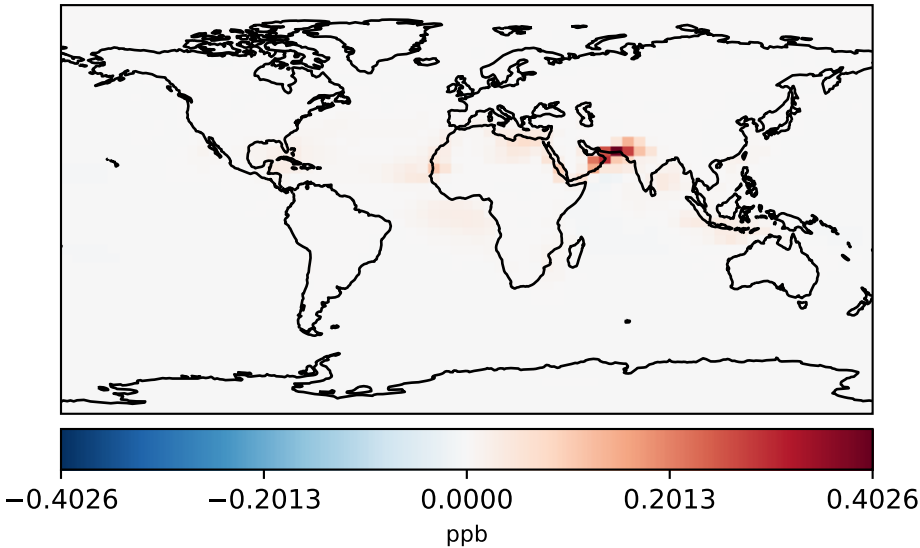
SpeciesConcVV_SALCAL

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



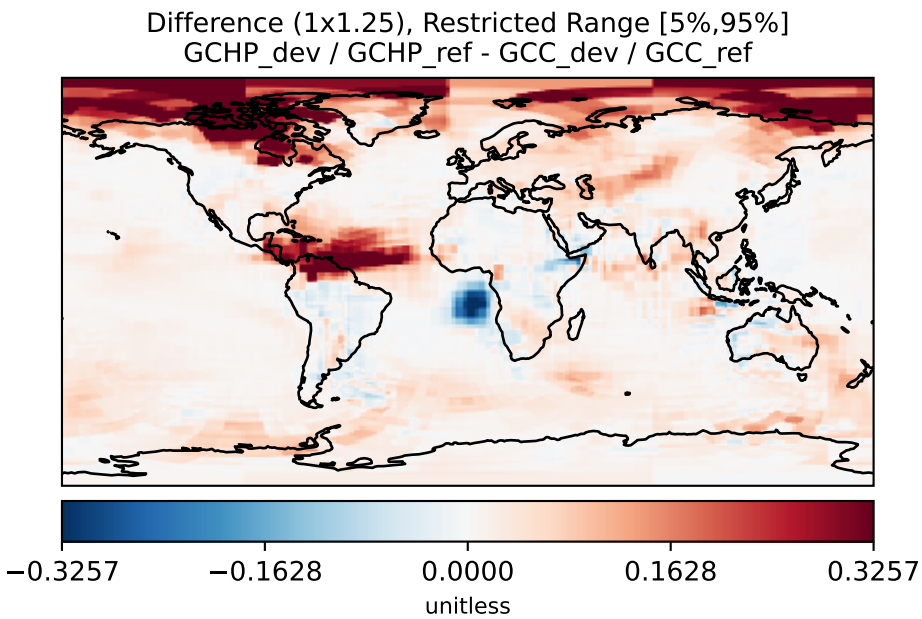
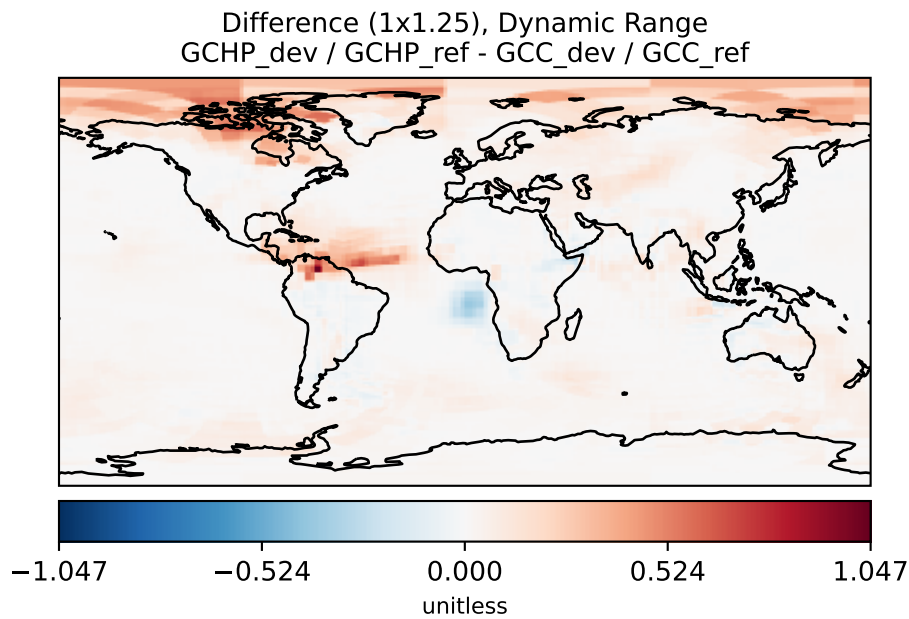
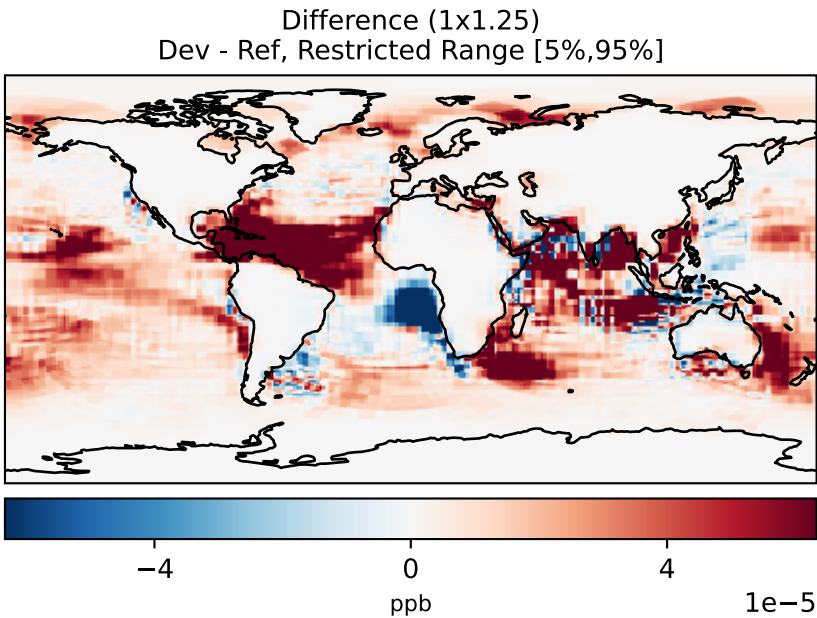
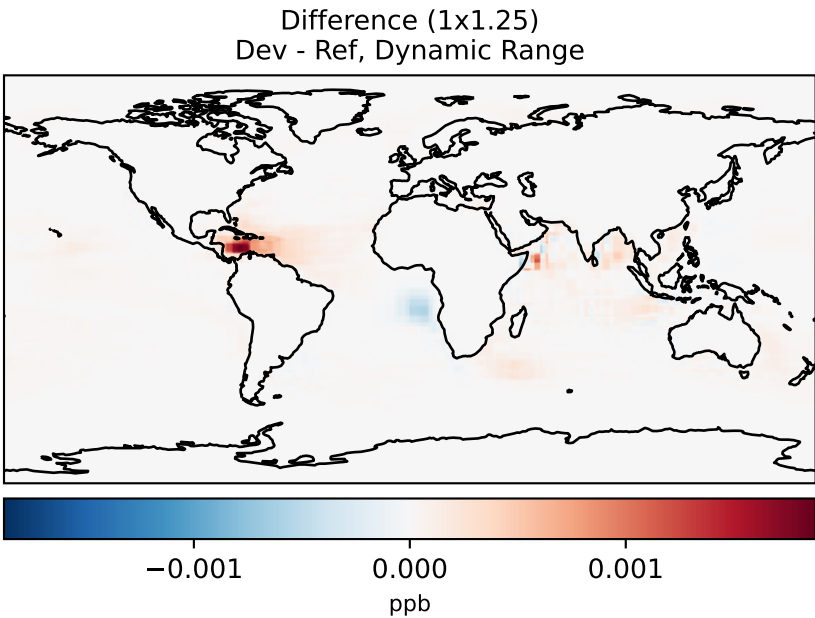
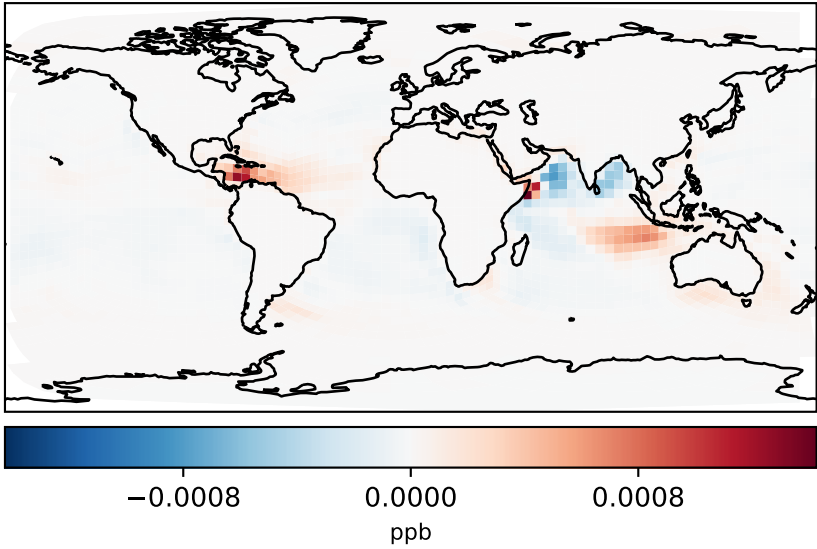
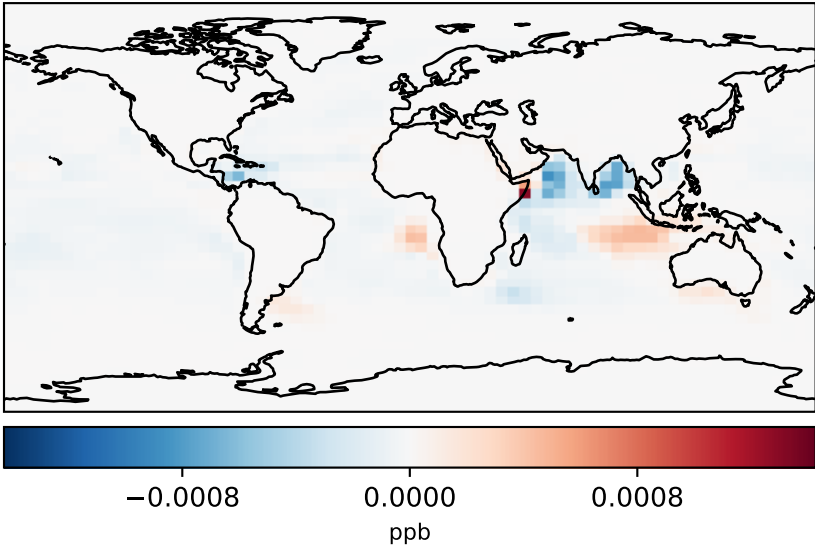
SpeciesConcVV_SALCCL

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24



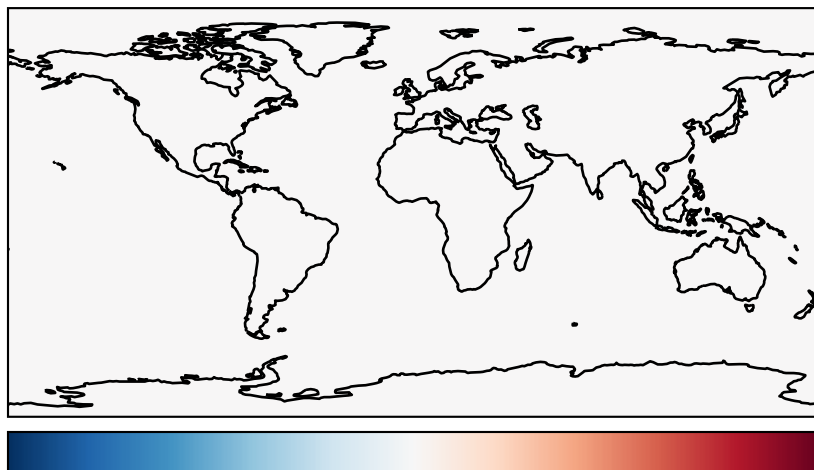
SpeciesConcVV_S04s

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24

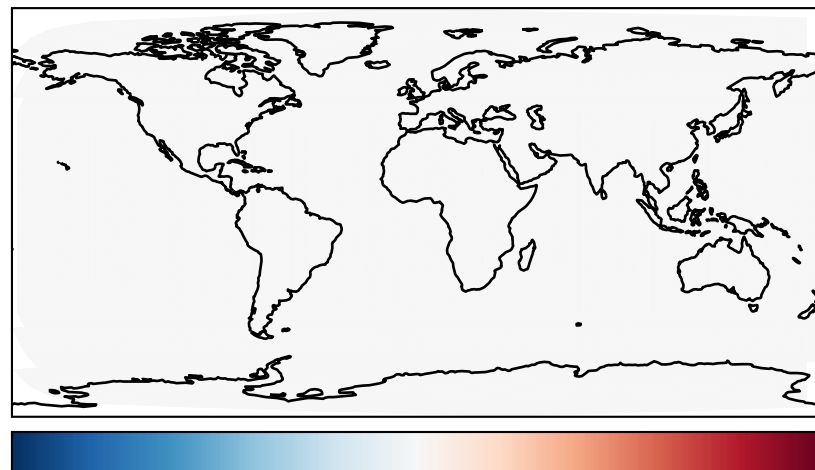


SpeciesConcVV_pFe

gcc-4x5-1Mon-14.7.0-alpha.17_-_gcc-4x5-1Mon-14.7.0-alpha.16 (Ref) 4.0x5.0 gchp-c24-1Mon-14.7.0-alpha.17_-_gchp-c24-1Mon-14.7.0-alpha.16 (Dev) c24

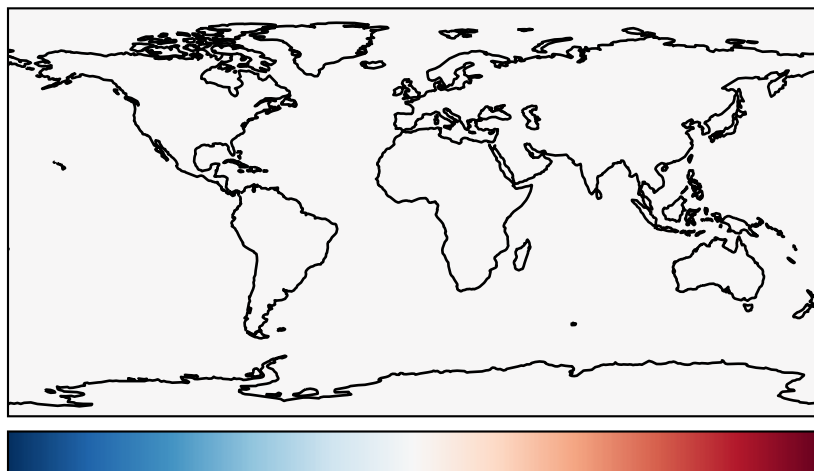


Zero throughout domain
ppb



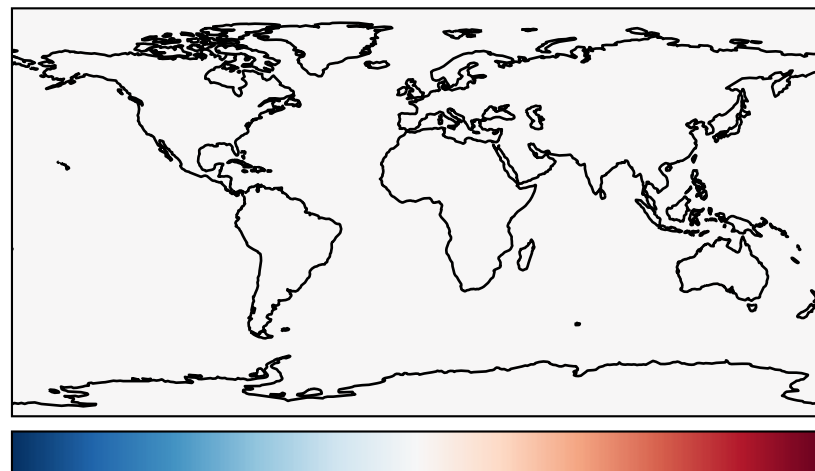
Zero throughout domain
ppb

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



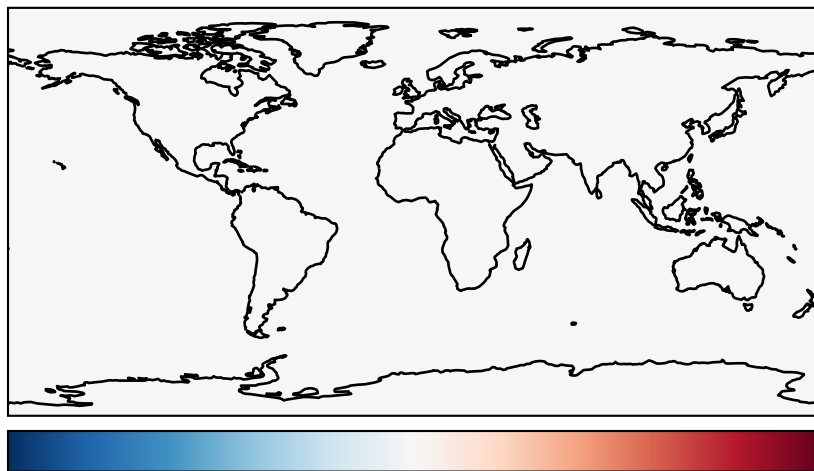
Zero throughout domain
ppb

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



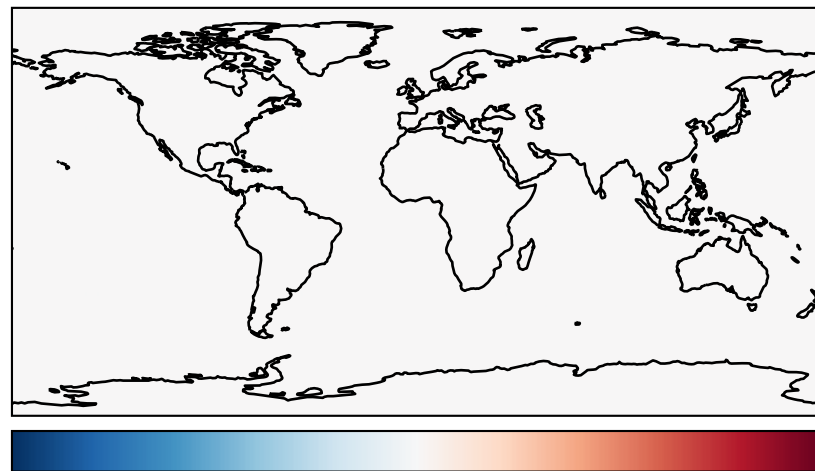
Zero throughout domain
ppb

Difference (1x1.25), Dynamic Range
 $\text{GCHP_dev} / \text{GCHP_ref} - \text{GCC_dev} / \text{GCC_ref}$



Undefined throughout domain
unitless

Difference (1x1.25), Restricted Range [5%,95%]
 $\text{GCHP_dev} / \text{GCHP_ref} - \text{GCC_dev} / \text{GCC_ref}$



Undefined throughout domain
unitless