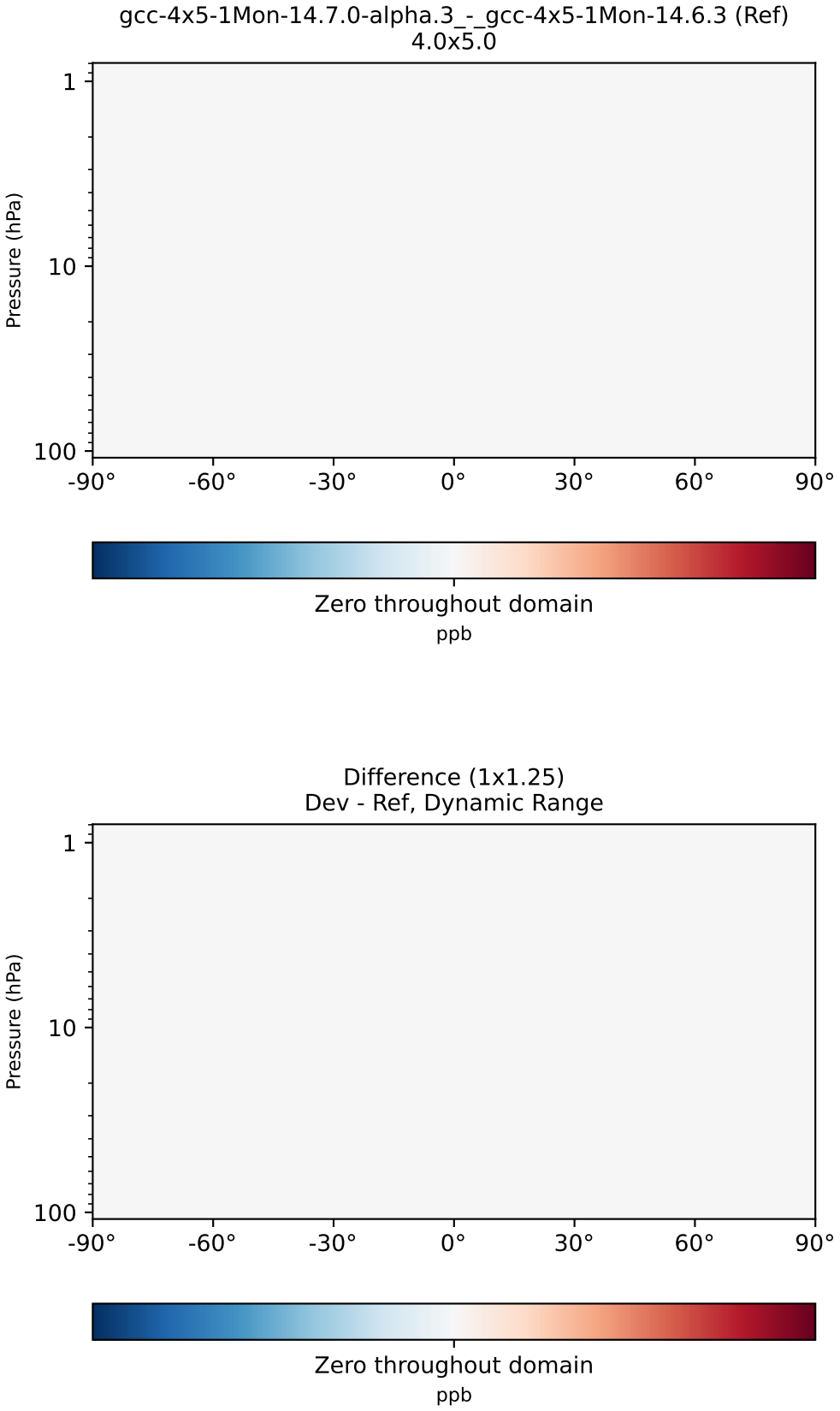
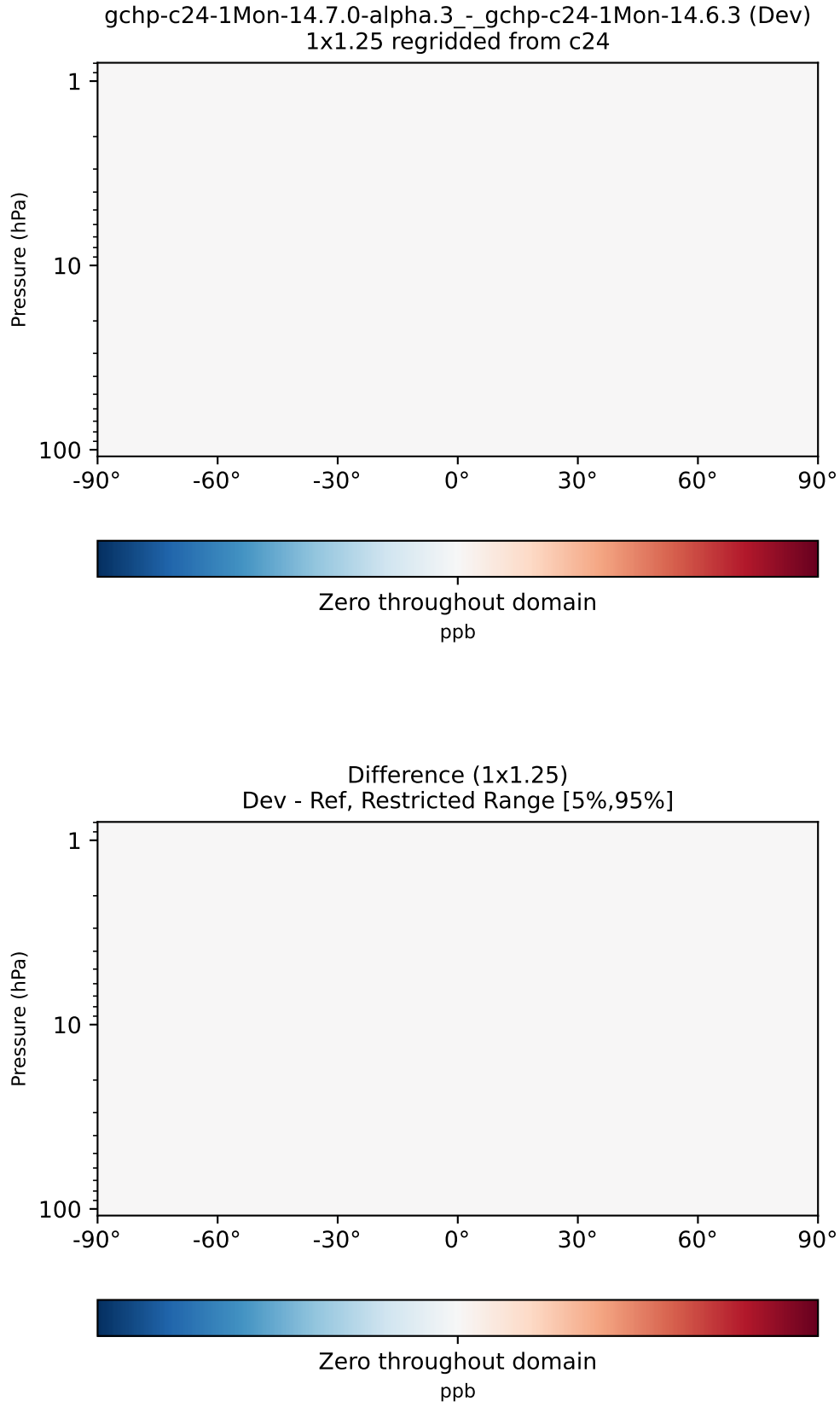
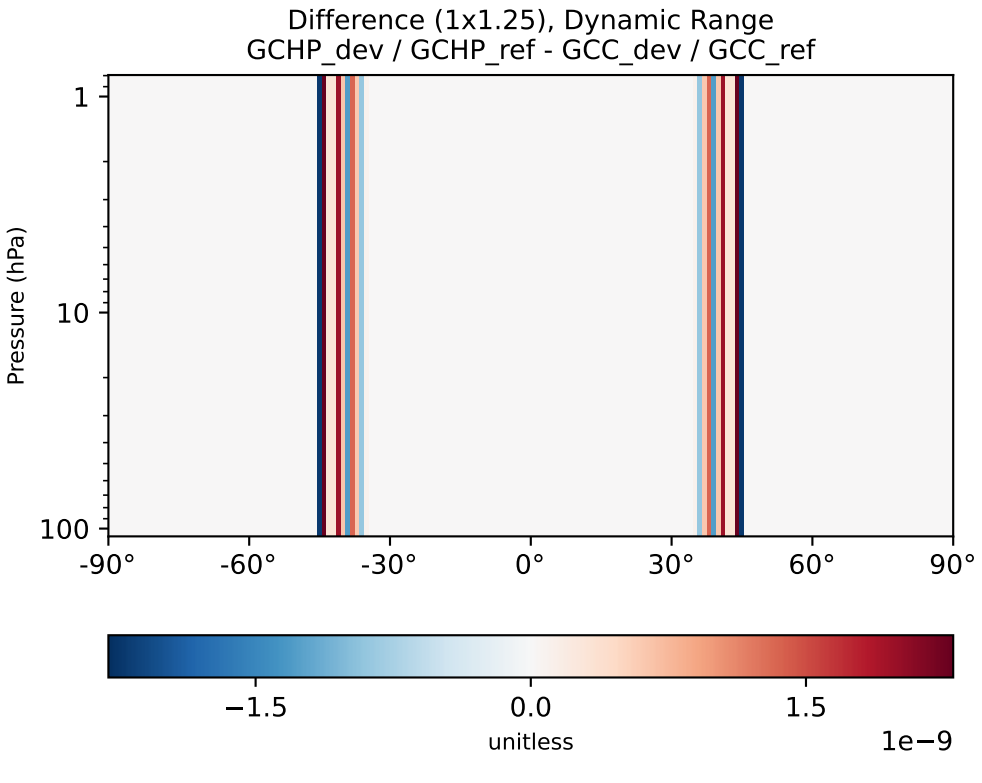
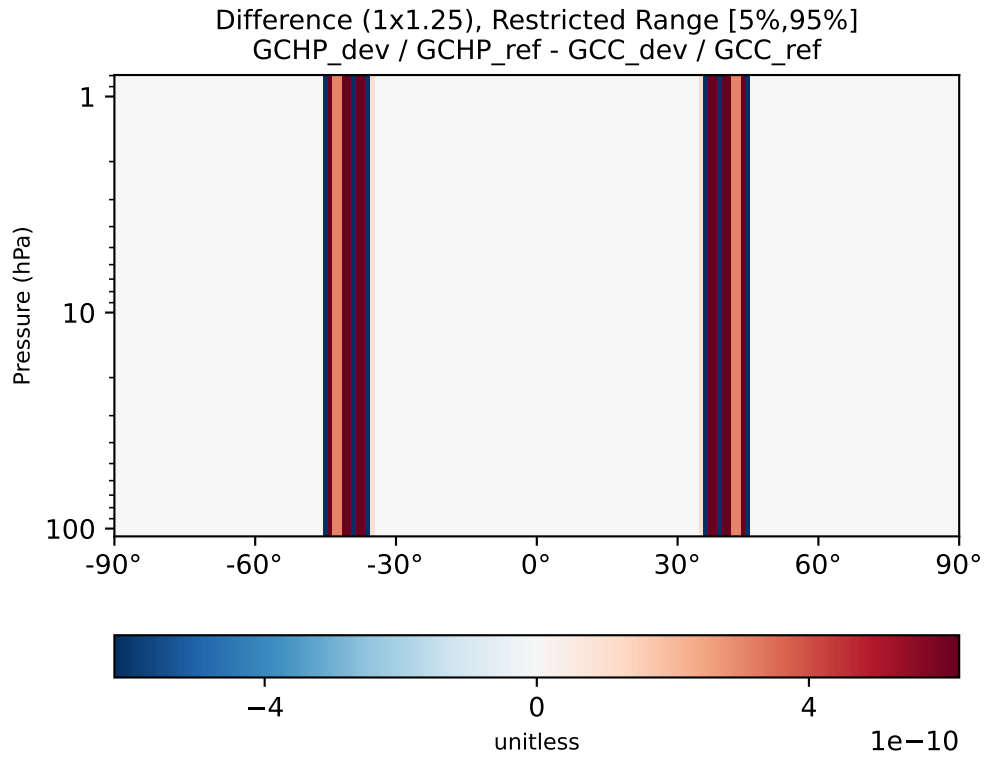
SpeciesConcVV_DST1, Zonal Mean

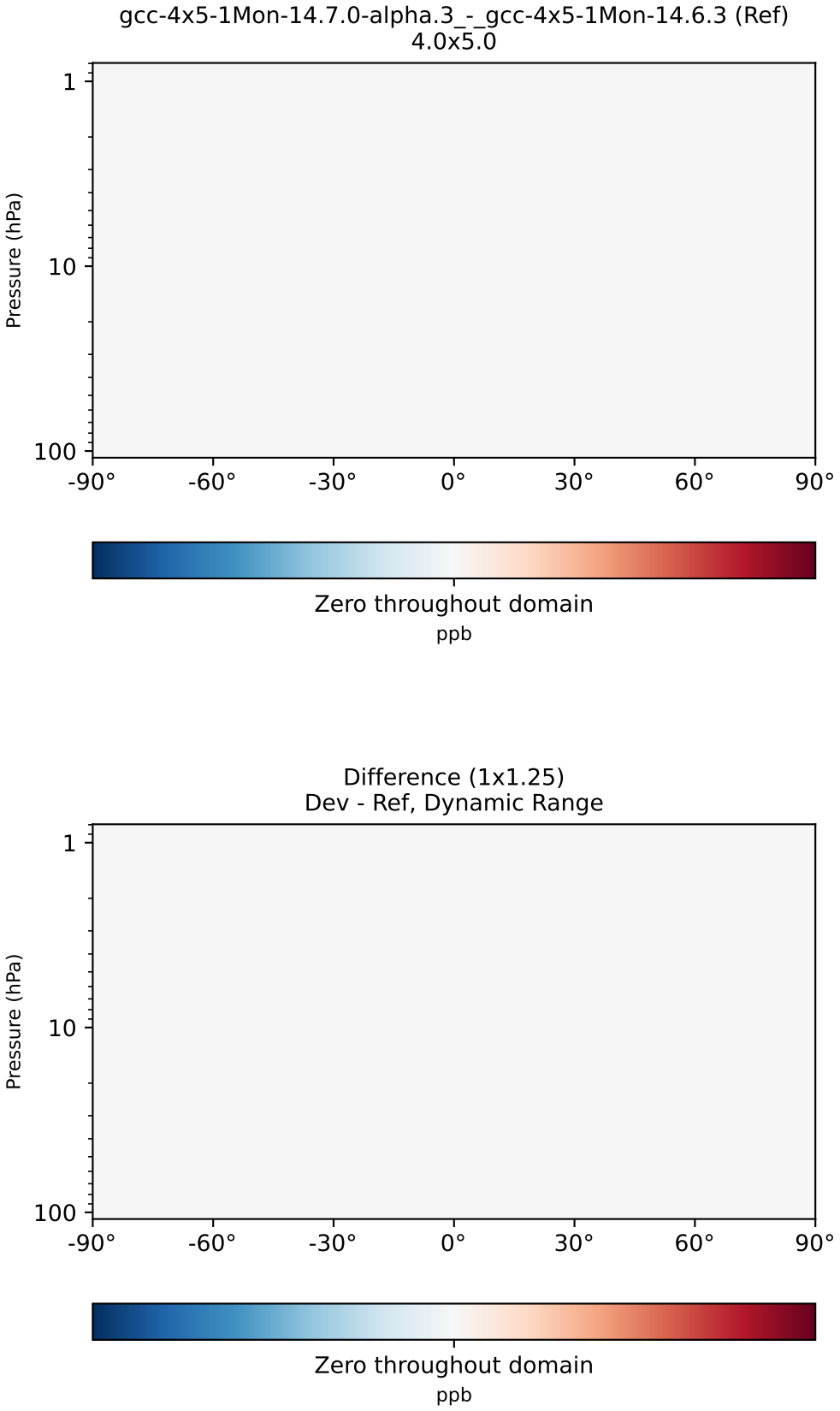


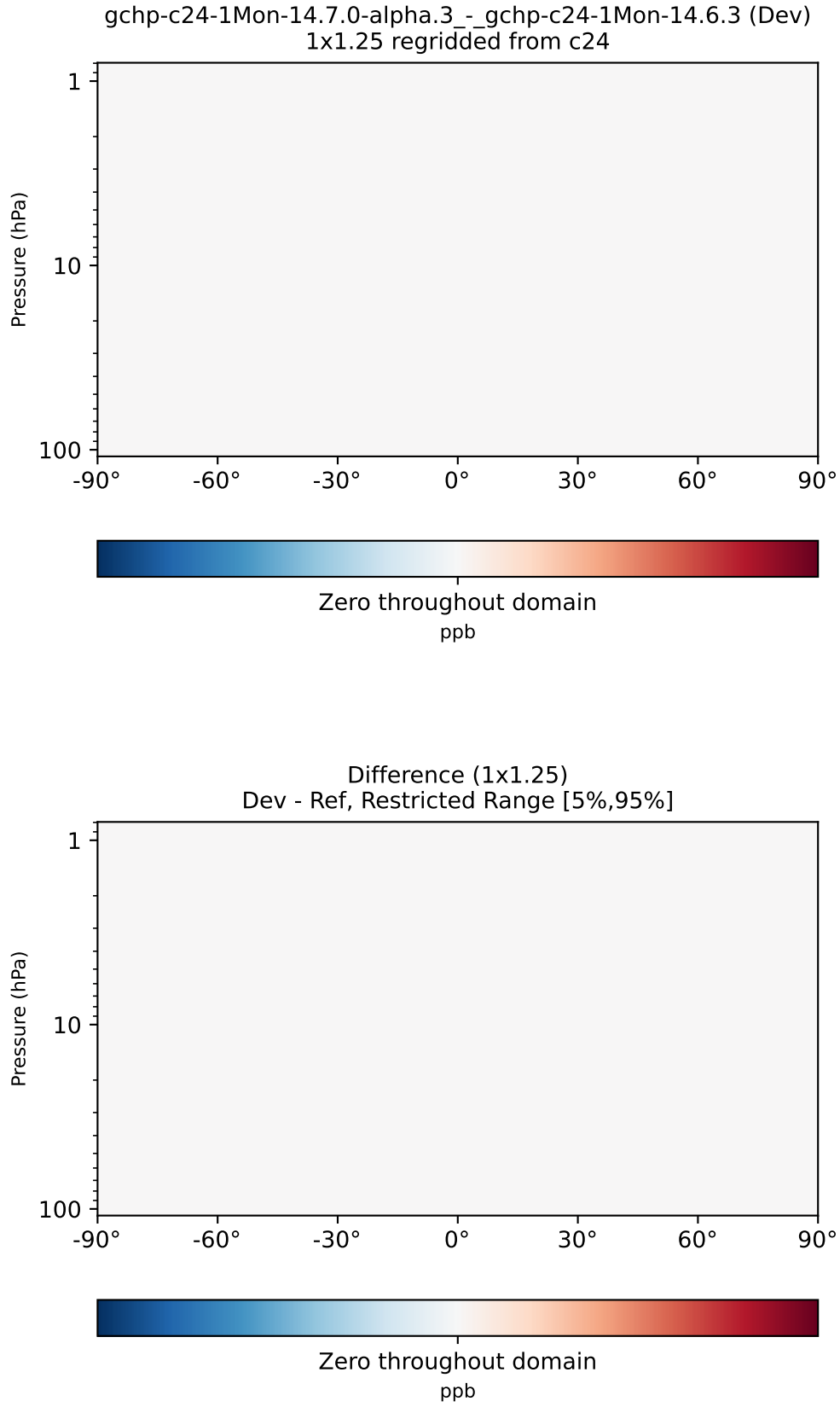


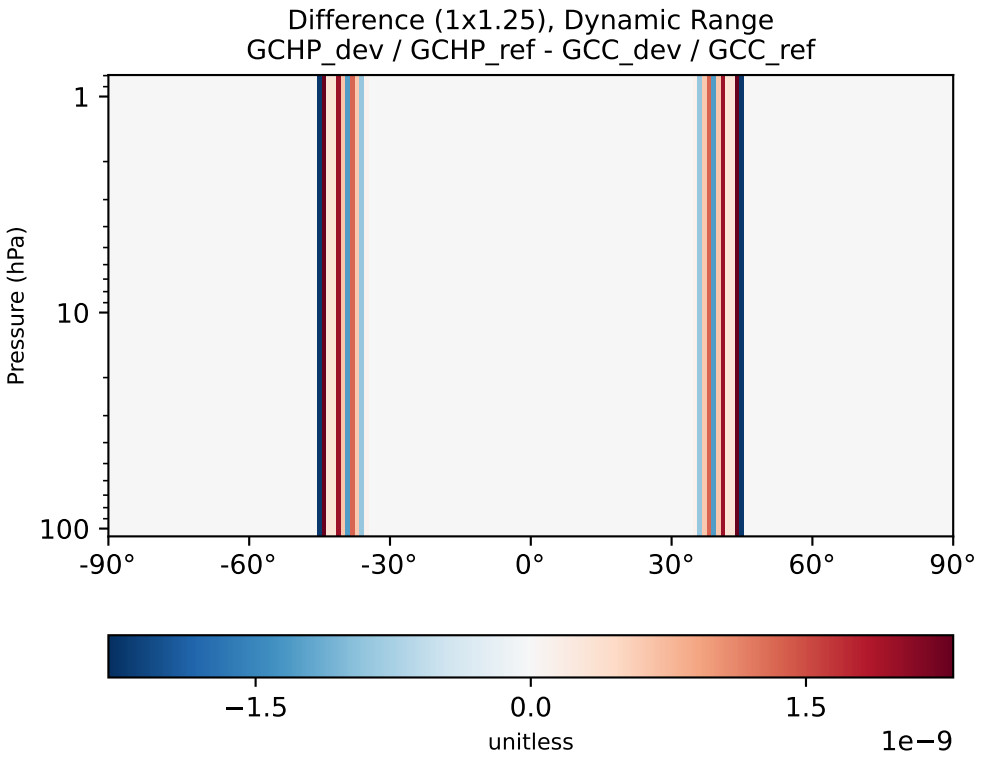


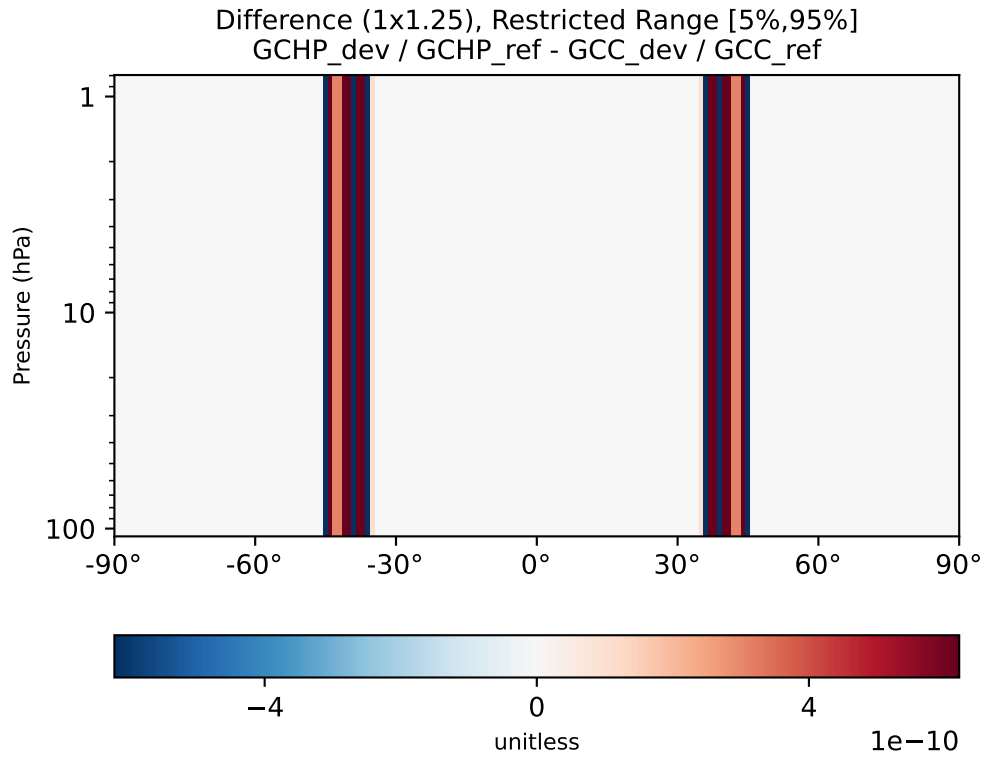


SpeciesConcVV_DST2, Zonal Mean

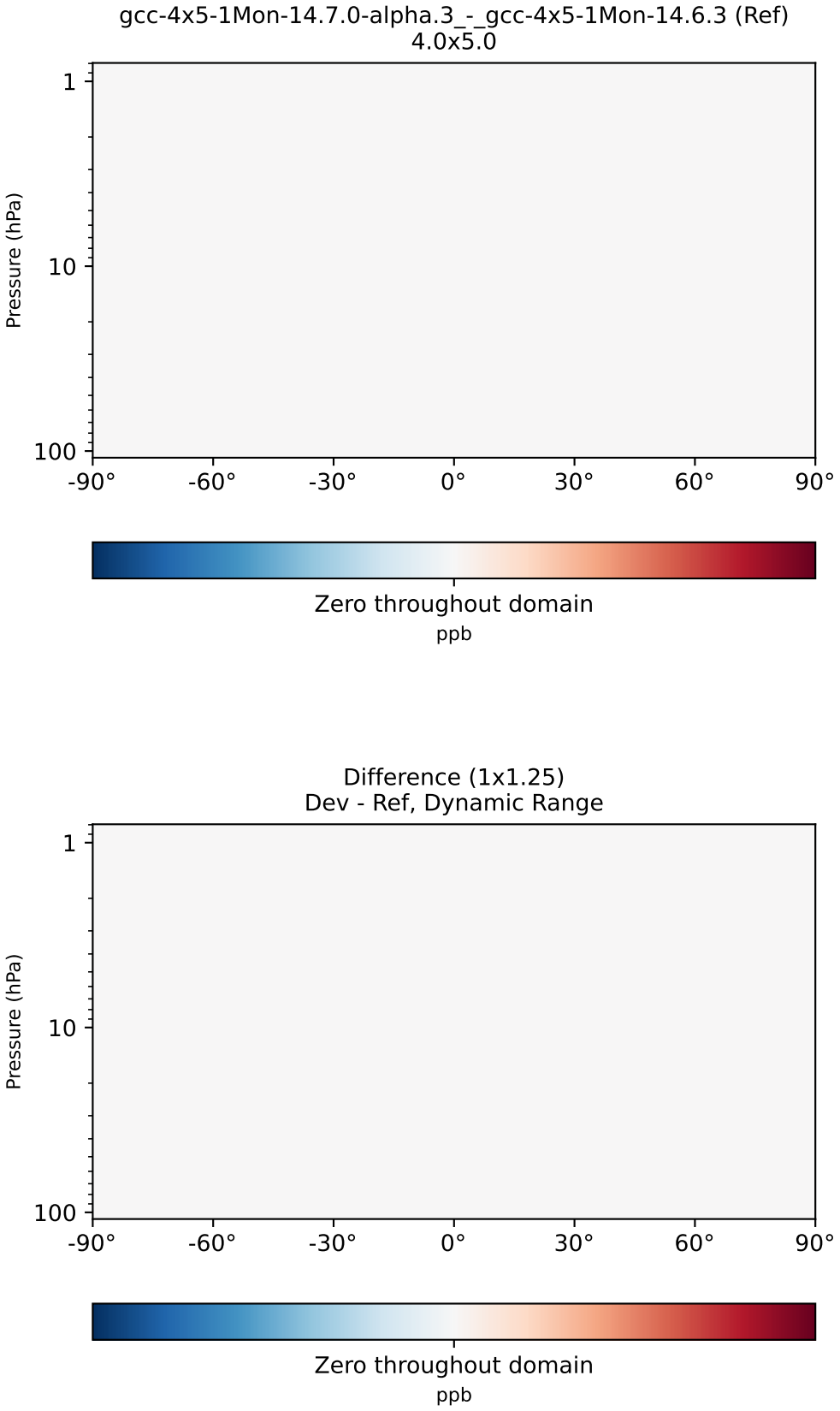


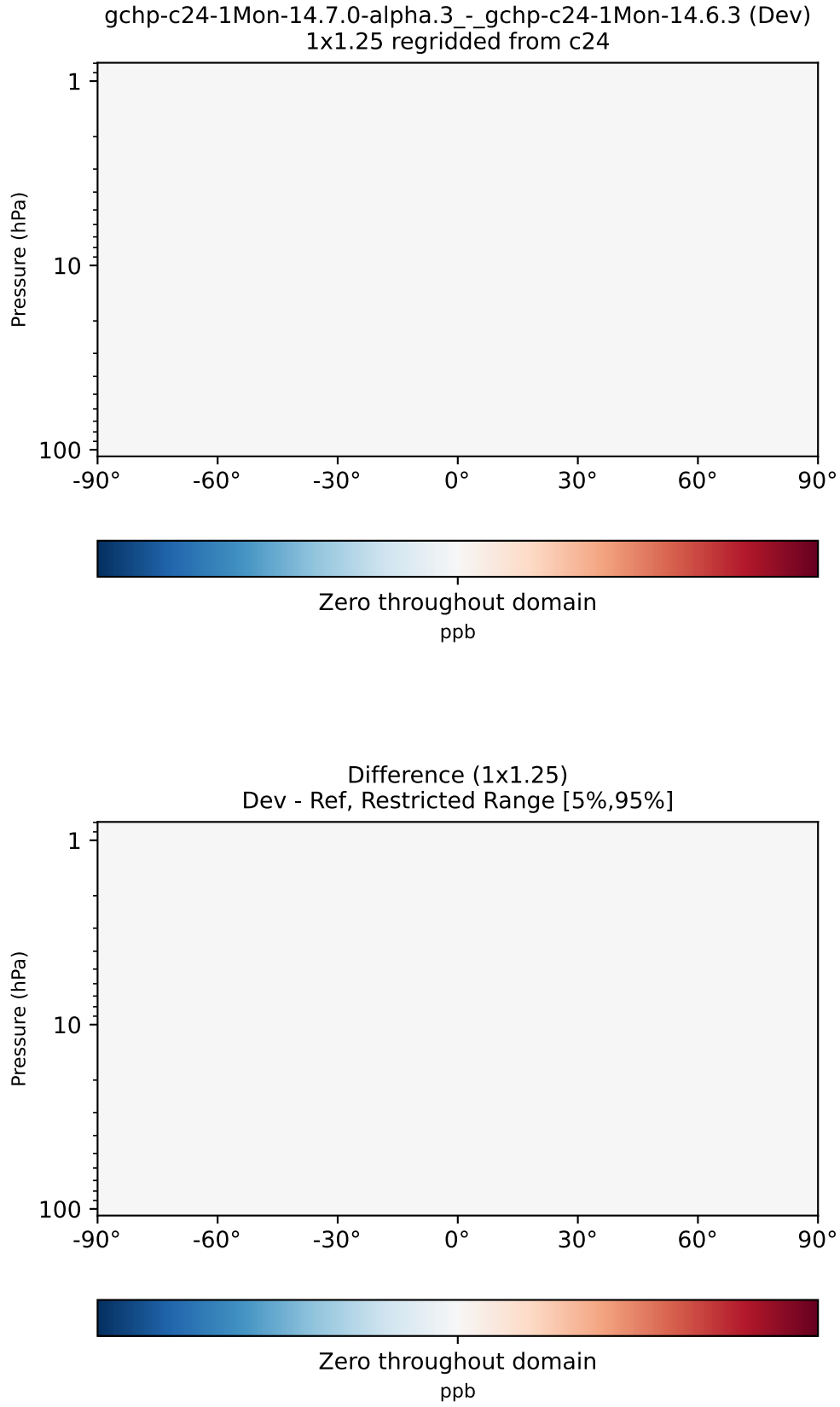


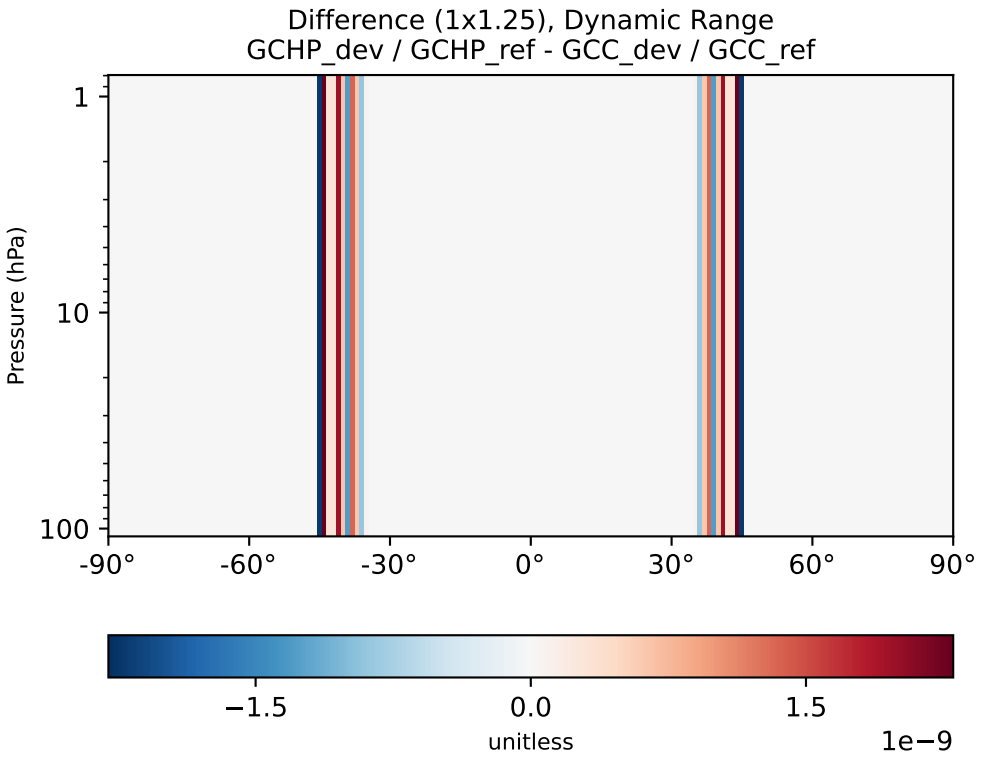


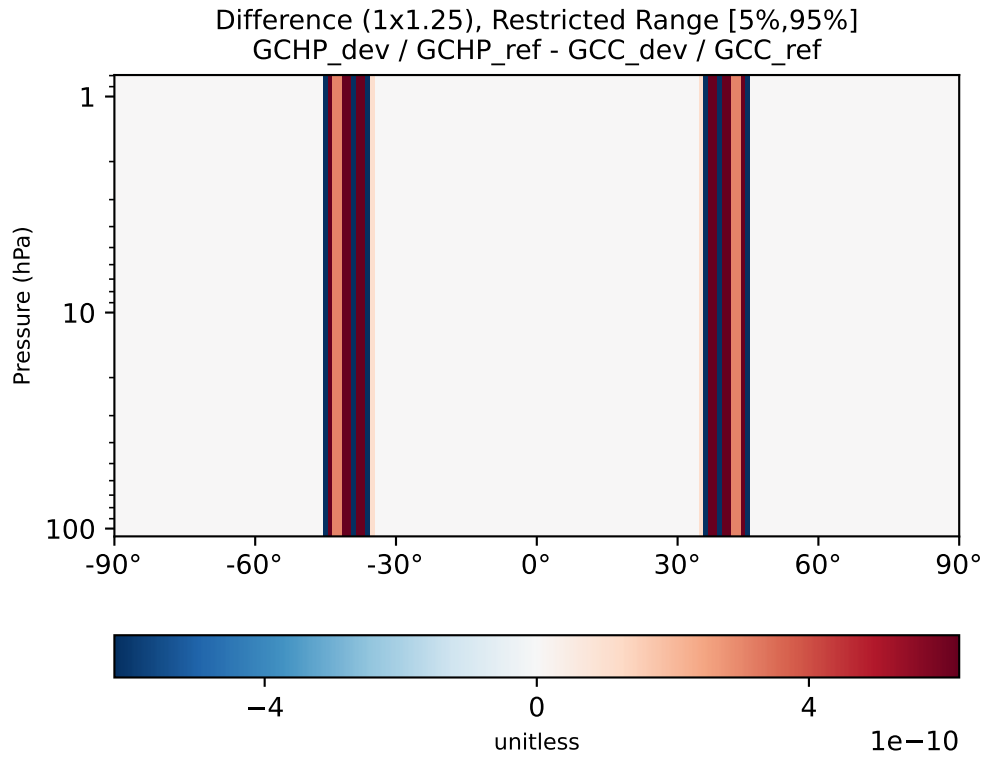


SpeciesConcVV_DST3, Zonal Mean

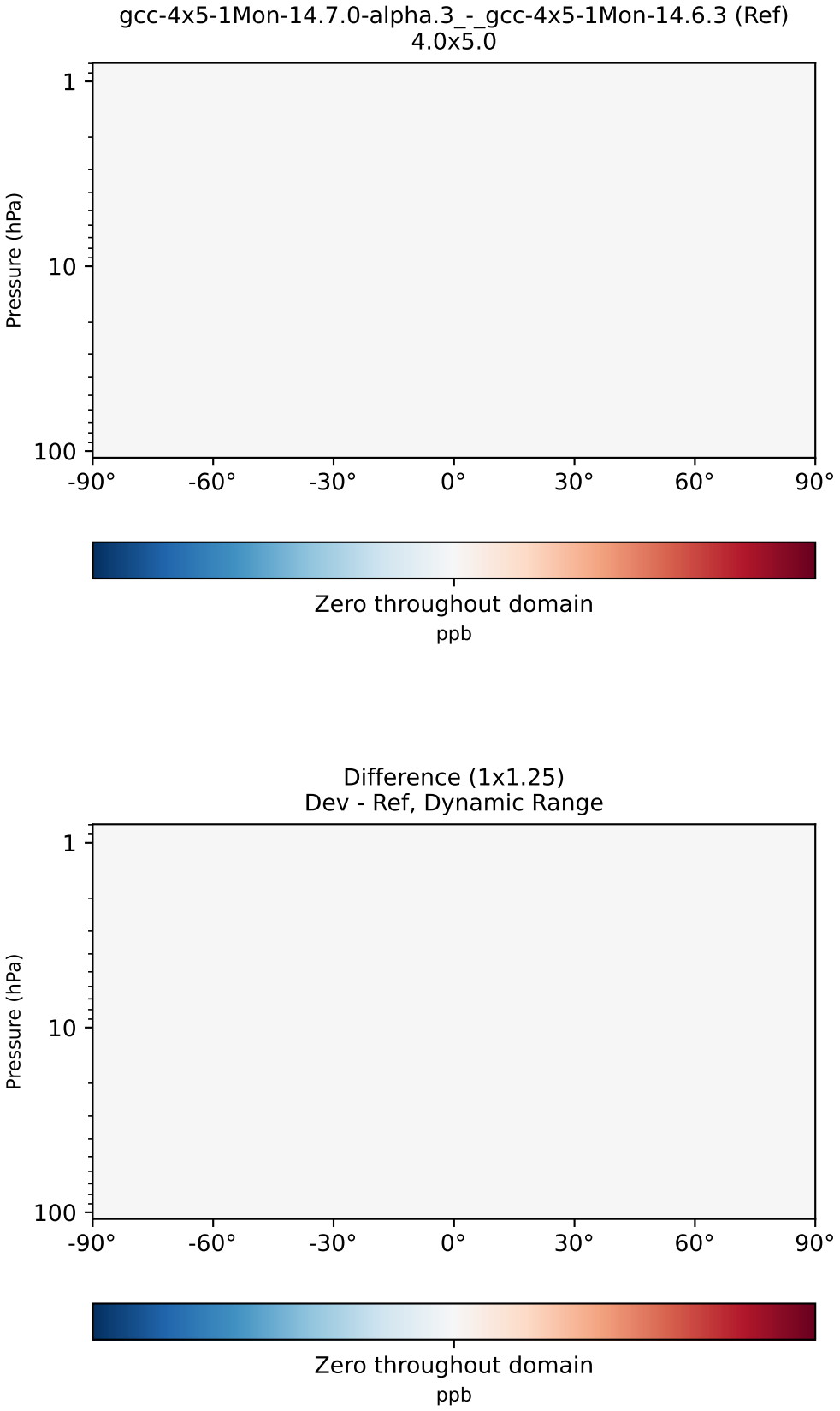


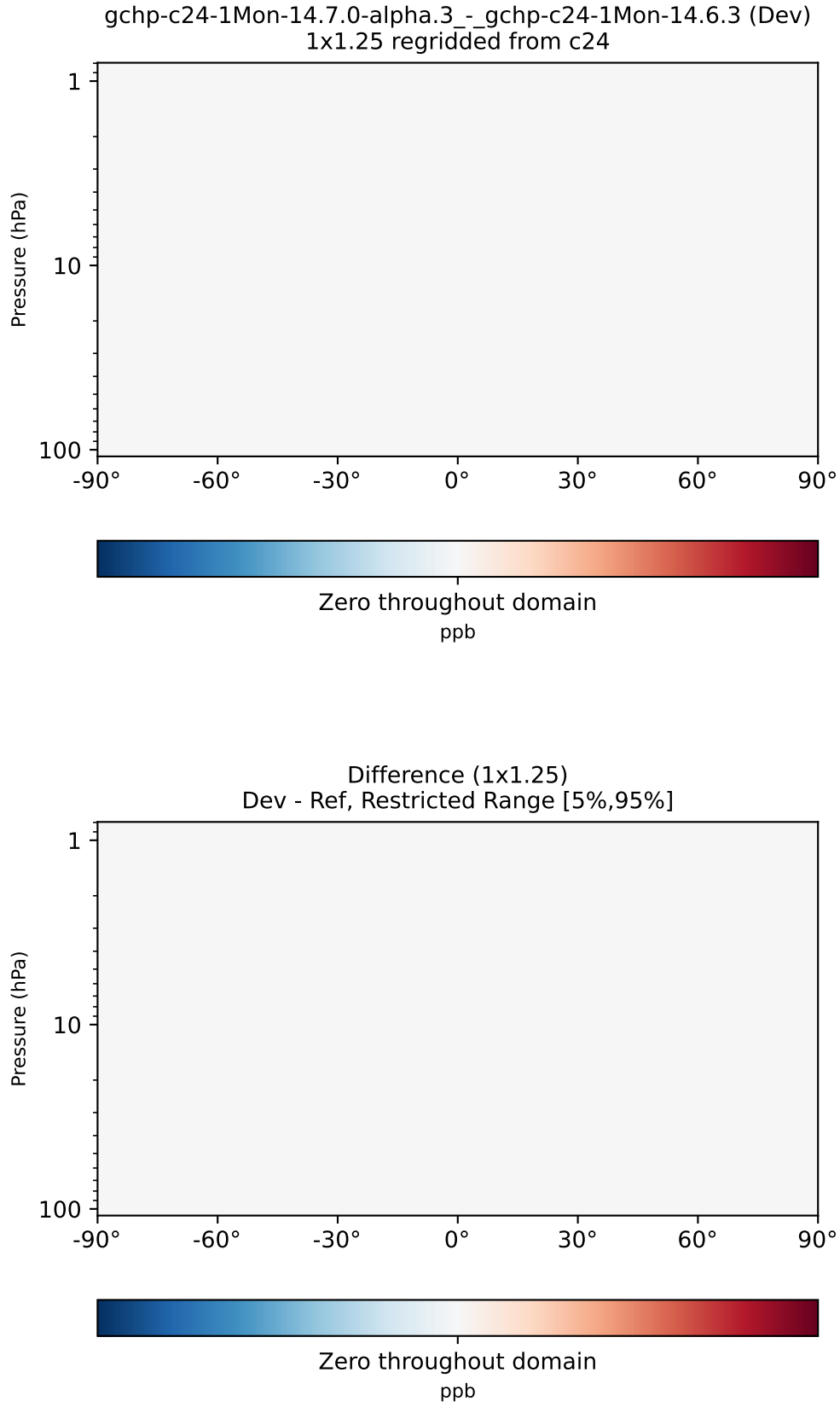


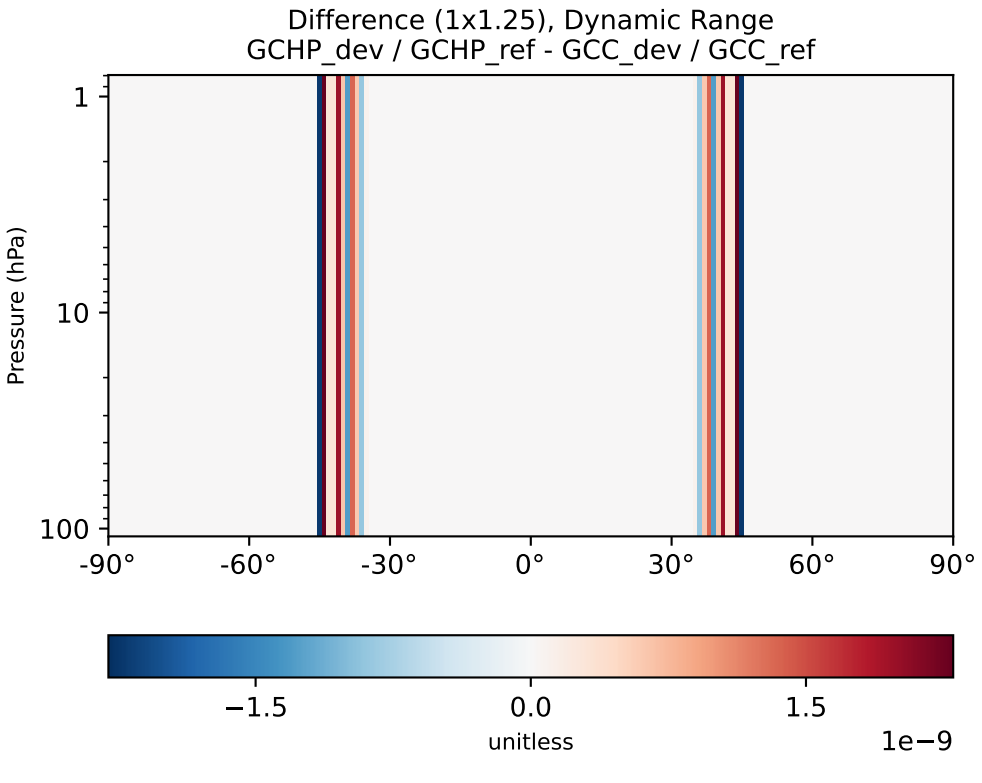


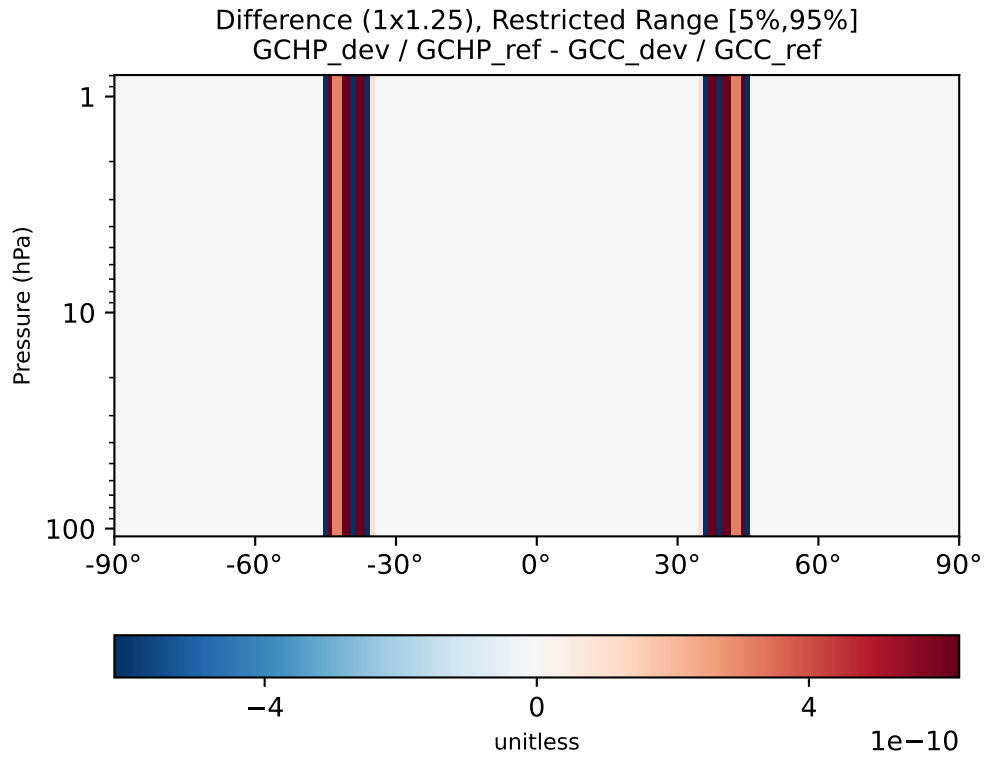


SpeciesConcVV_DST4, Zonal Mean

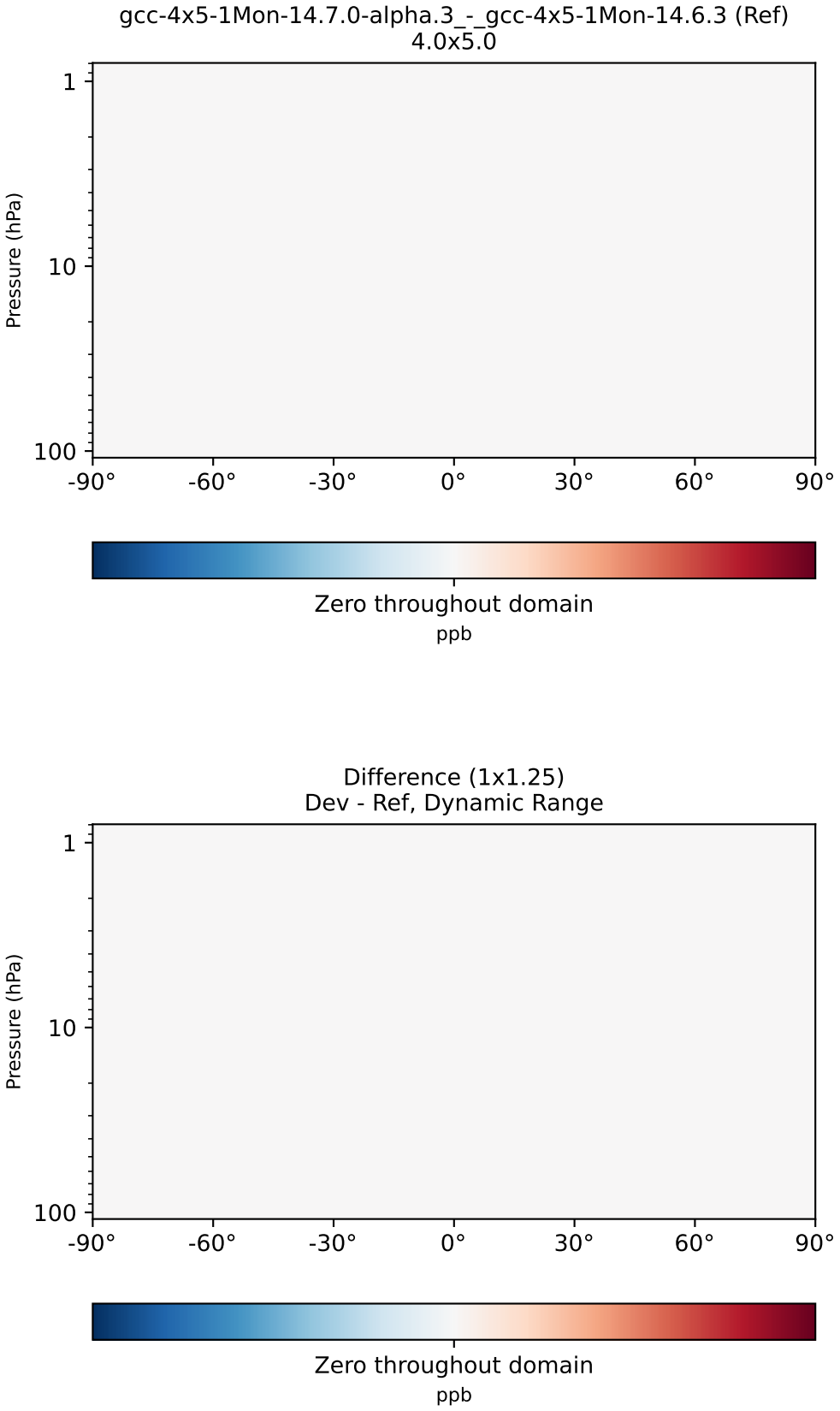


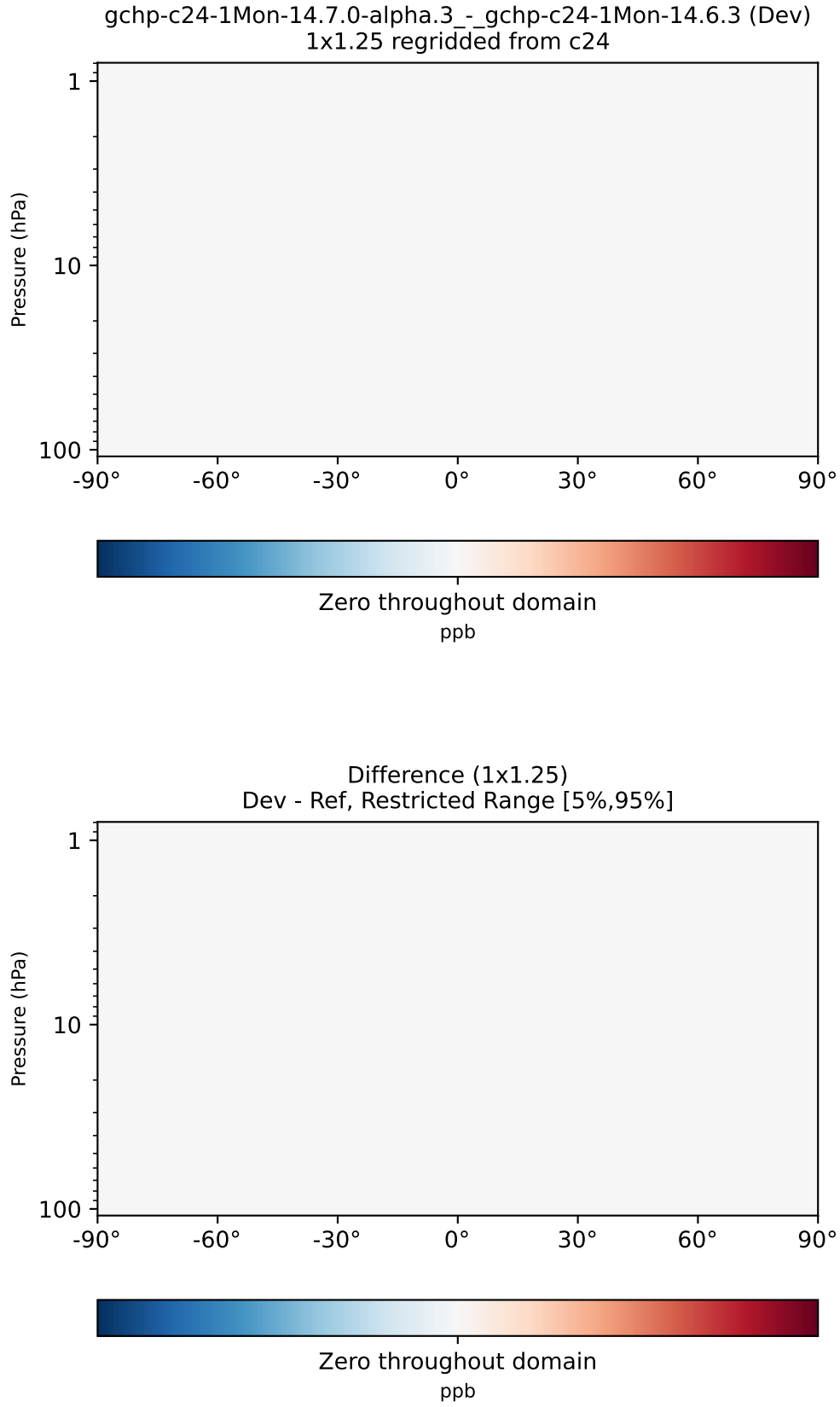


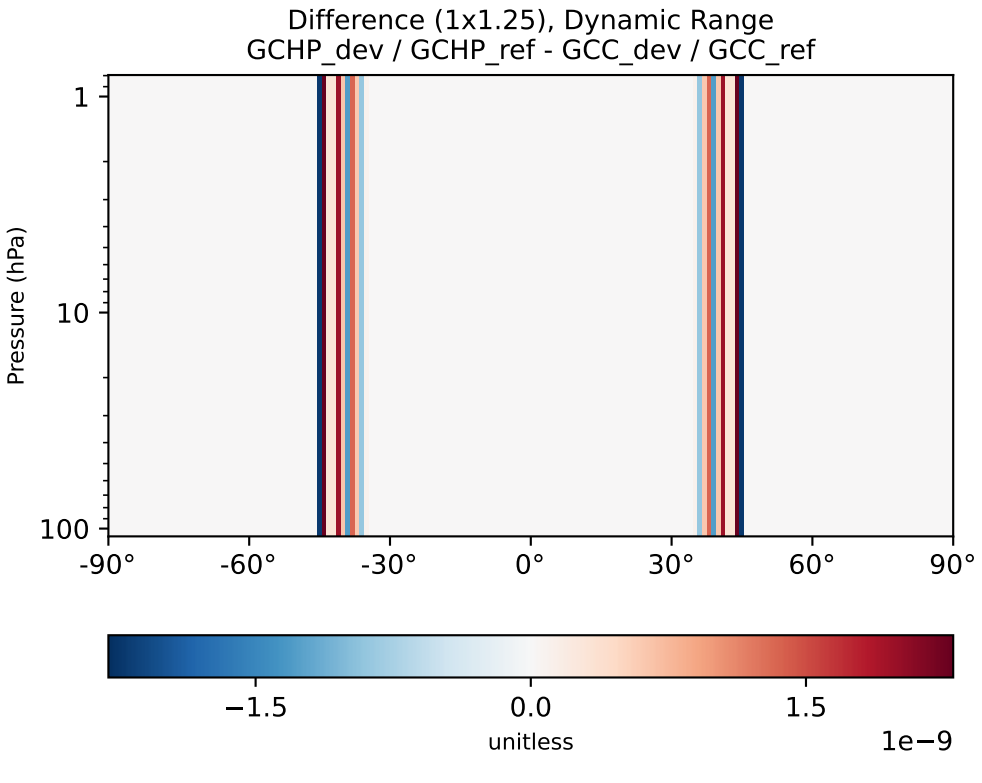


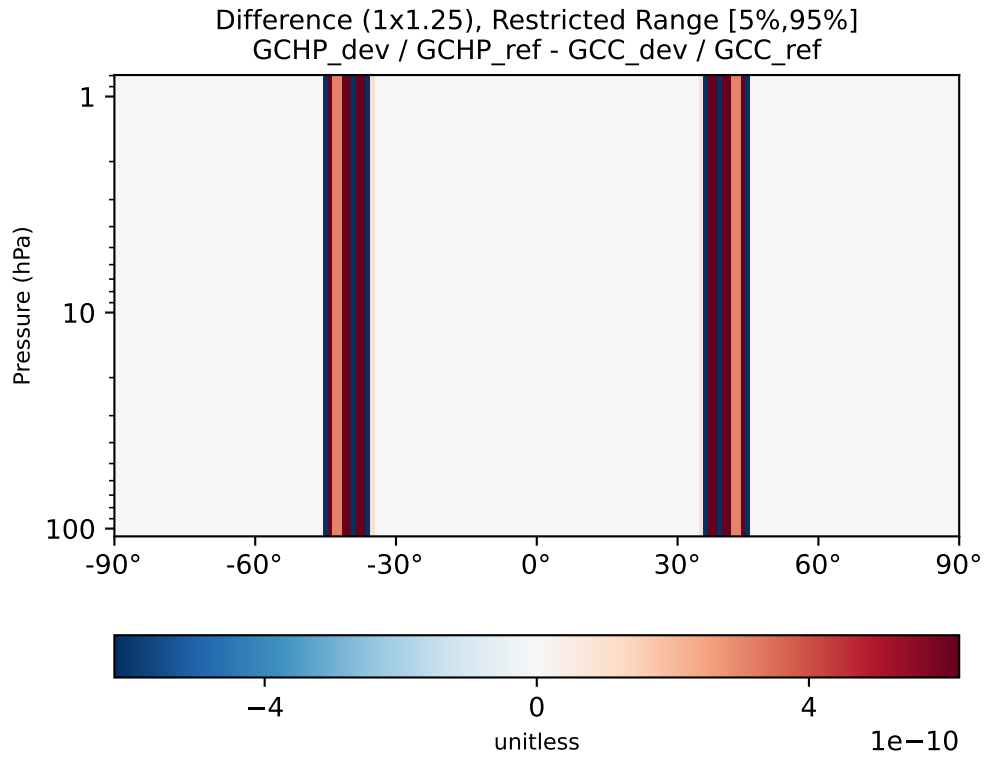


SpeciesConcVV_NH4, Zonal Mean





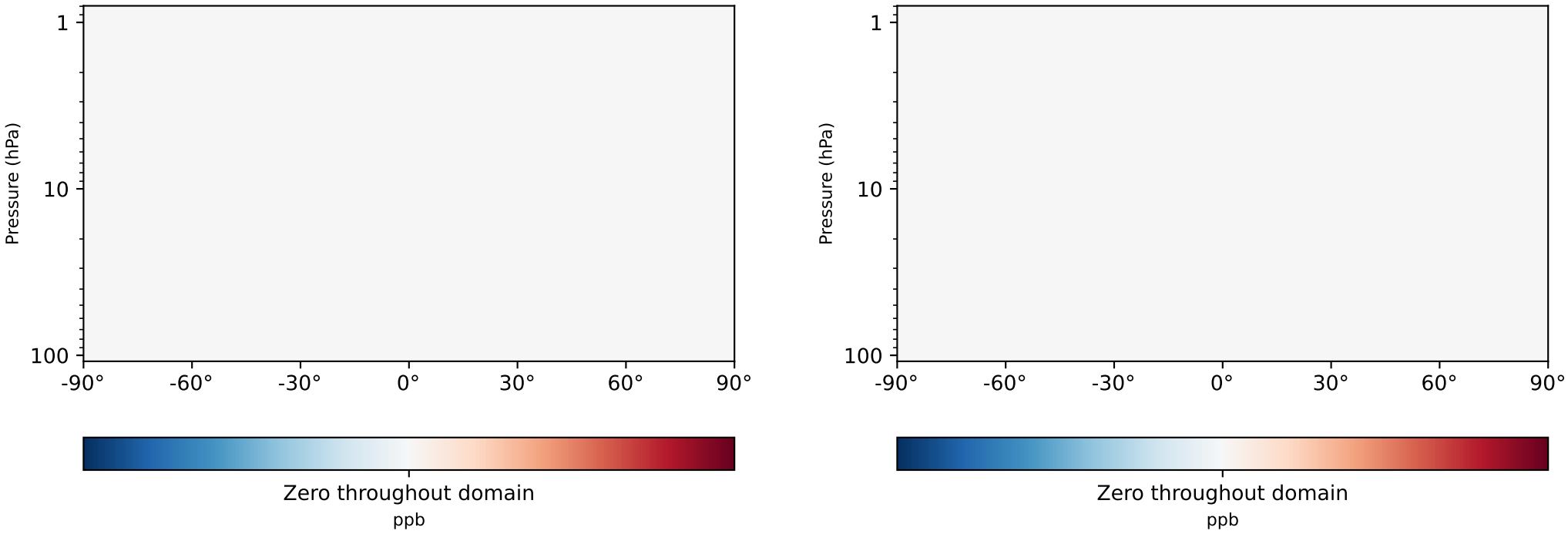




SpeciesConcVV_NIT, Zonal Mean

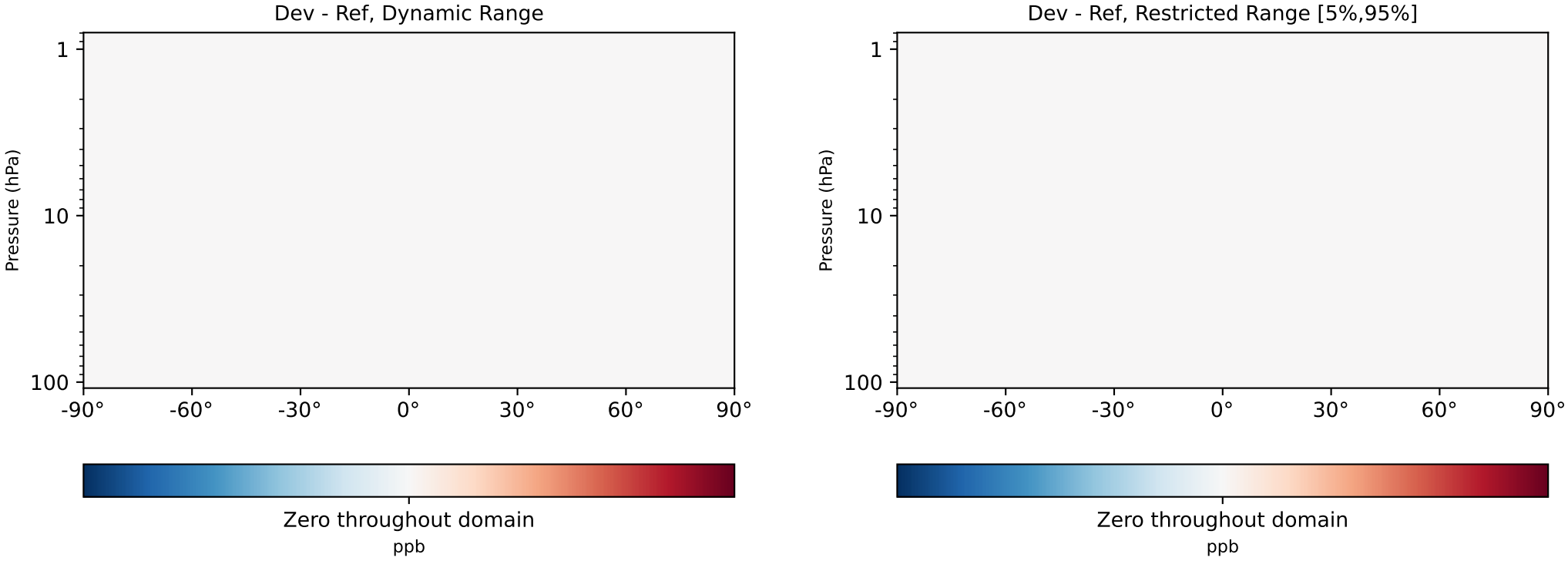
gcc-4x5-1Mon-14.7.0-alpha.3_-_gcc-4x5-1Mon-14.6.3 (Ref)
4.0x5.0

gchp-c24-1Mon-14.7.0-alpha.3_-_gchp-c24-1Mon-14.6.3 (Dev)
1x1.25 regridded from c24



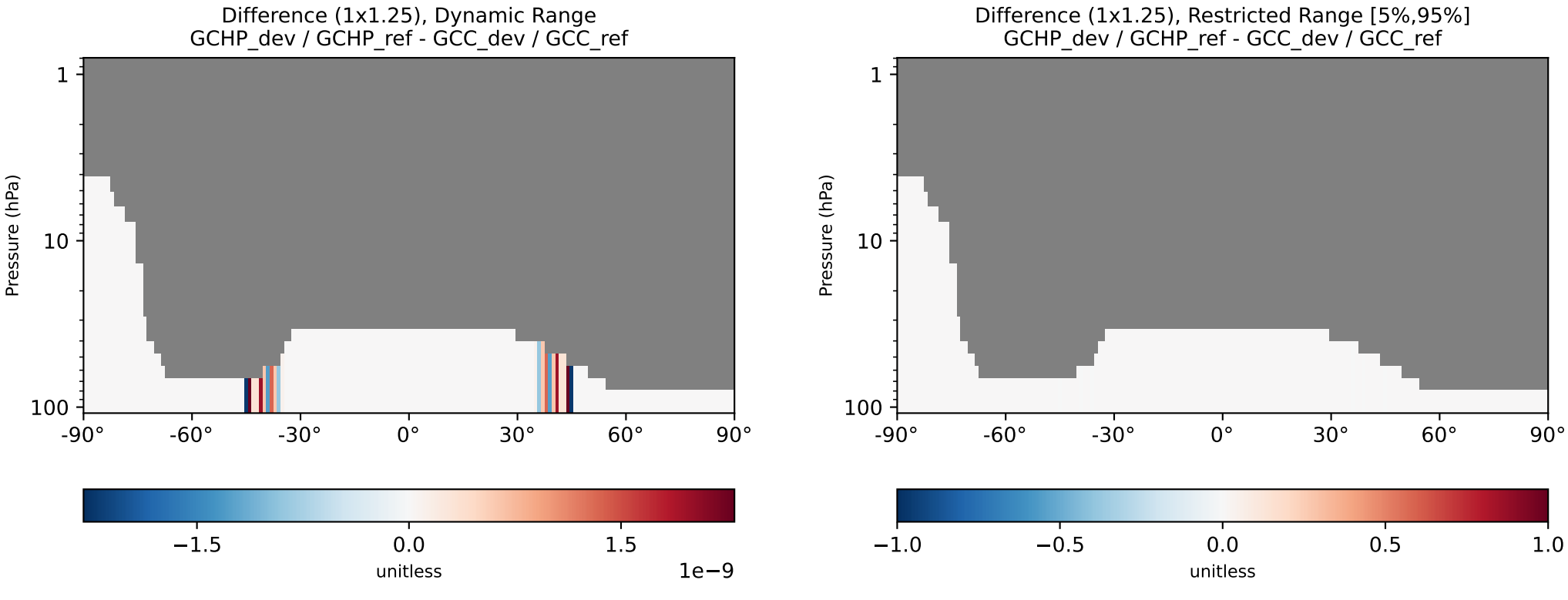
Difference (1x1.25)
Dev - Ref, Dynamic Range

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

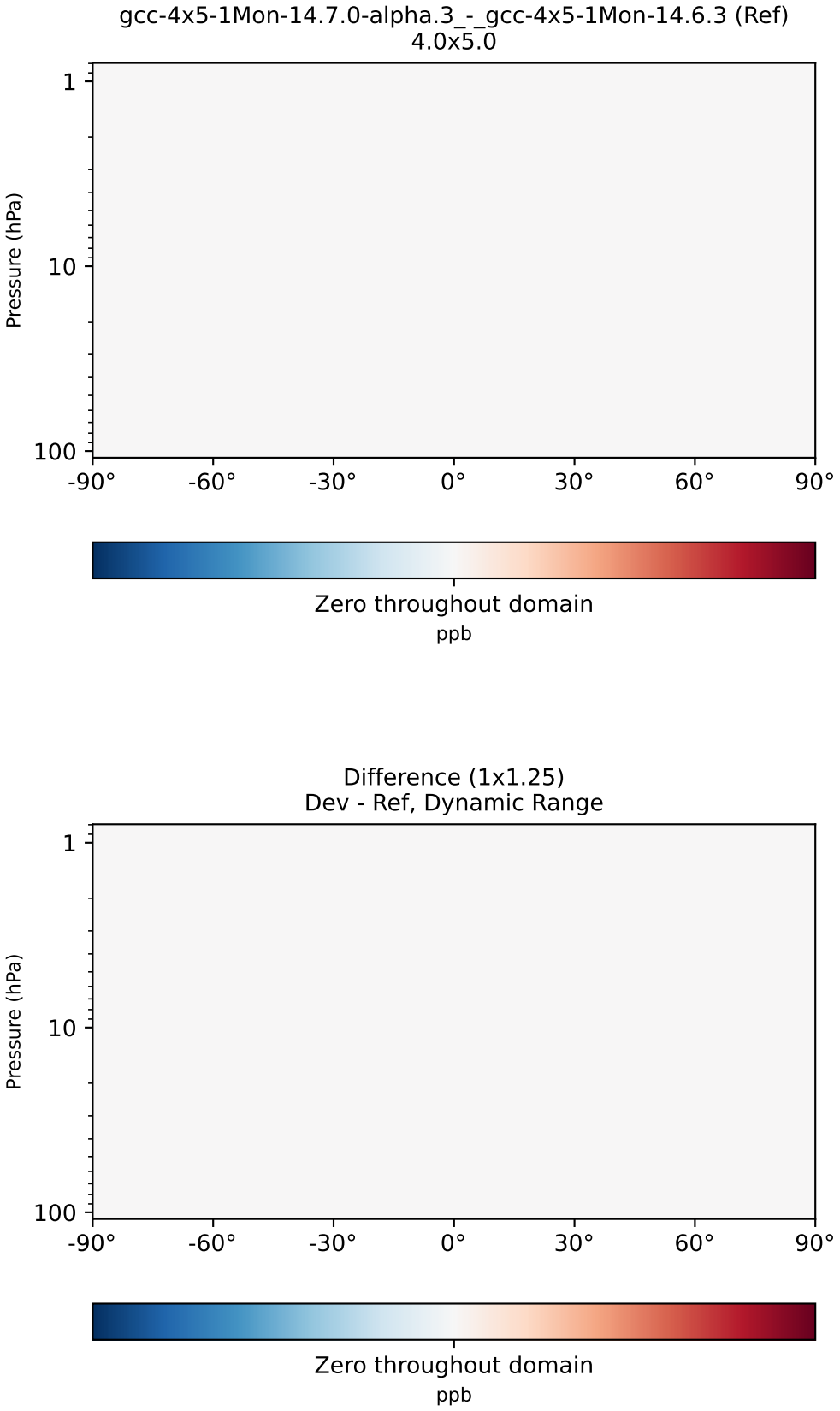


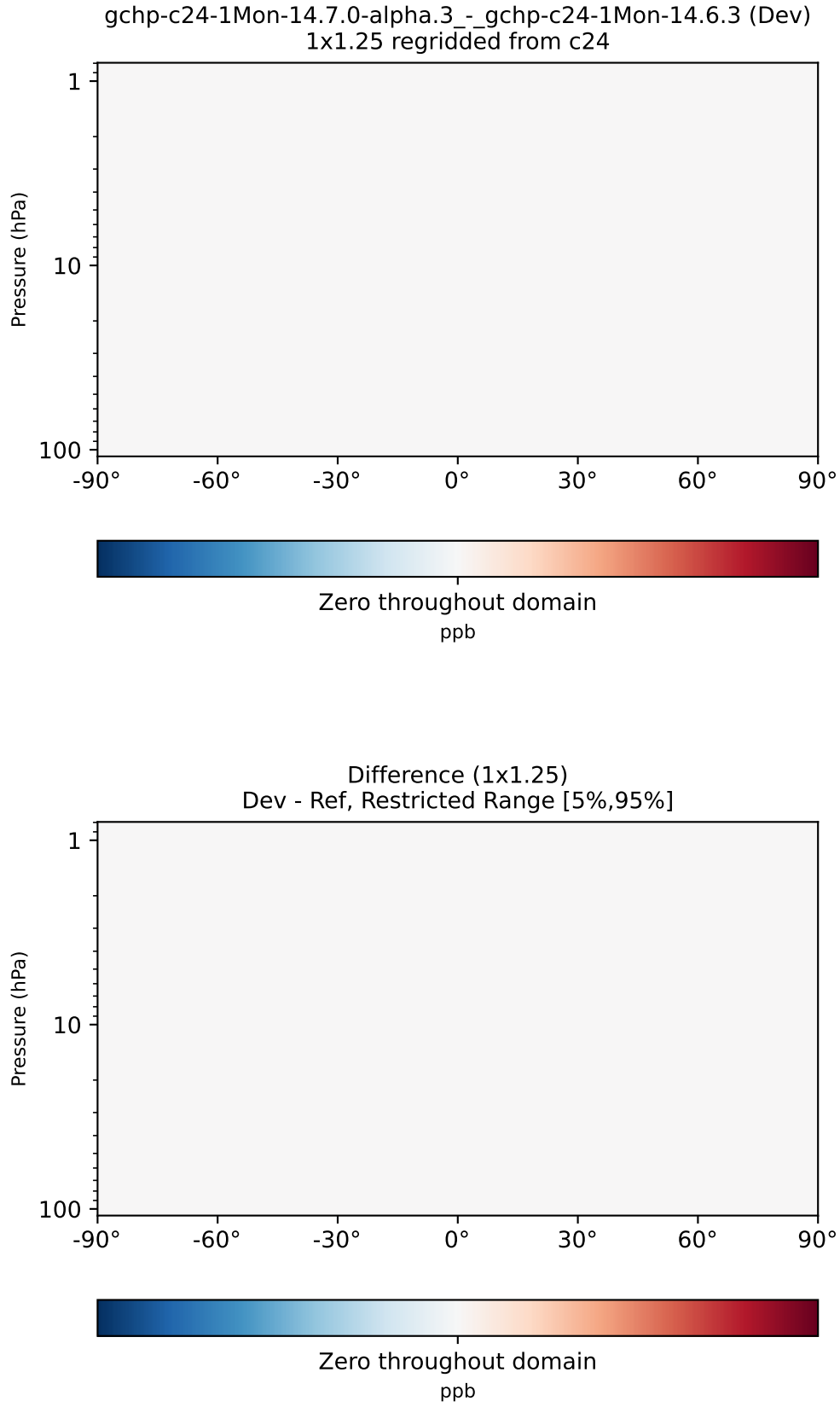
Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

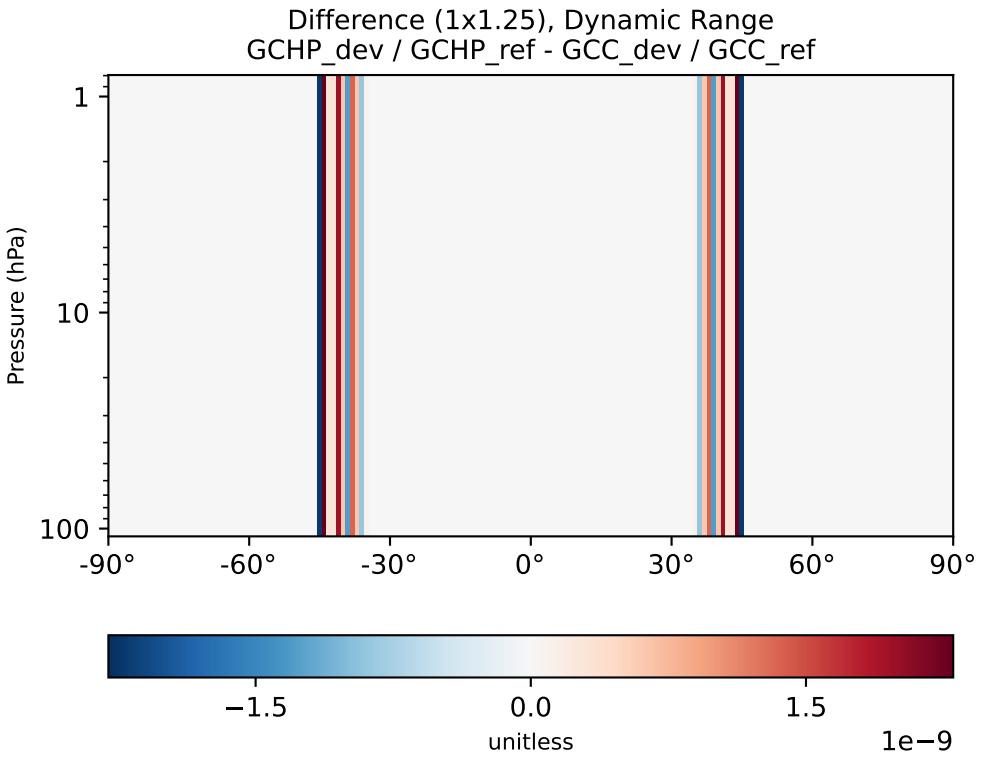
Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

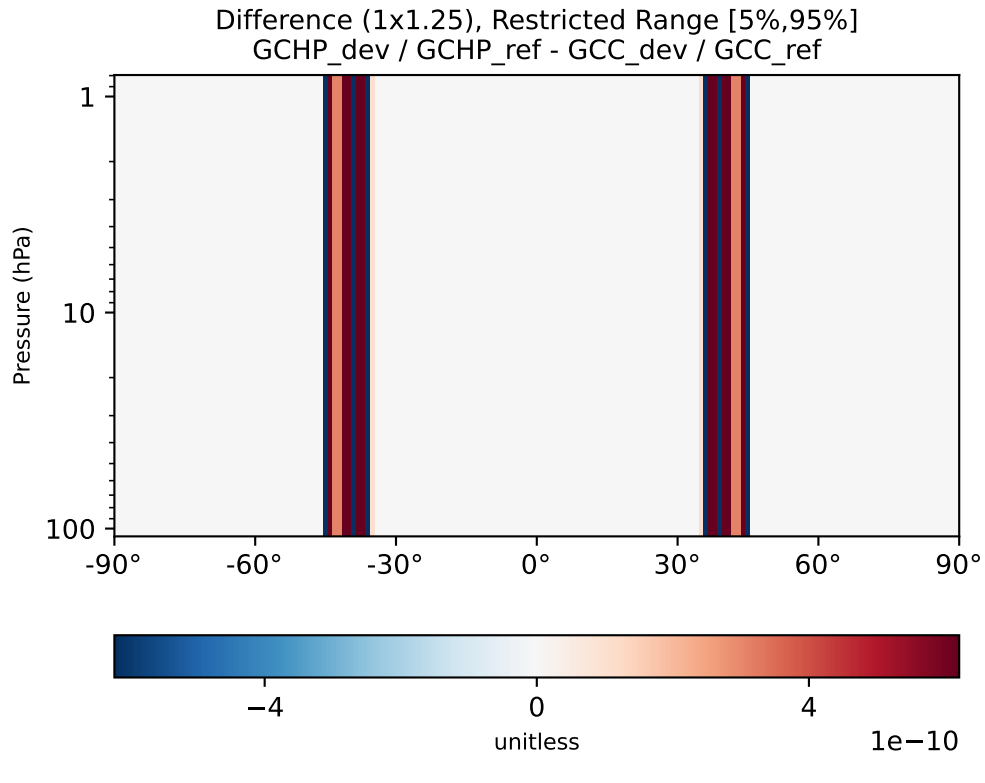


SpeciesConcVV_SO4, Zonal Mean

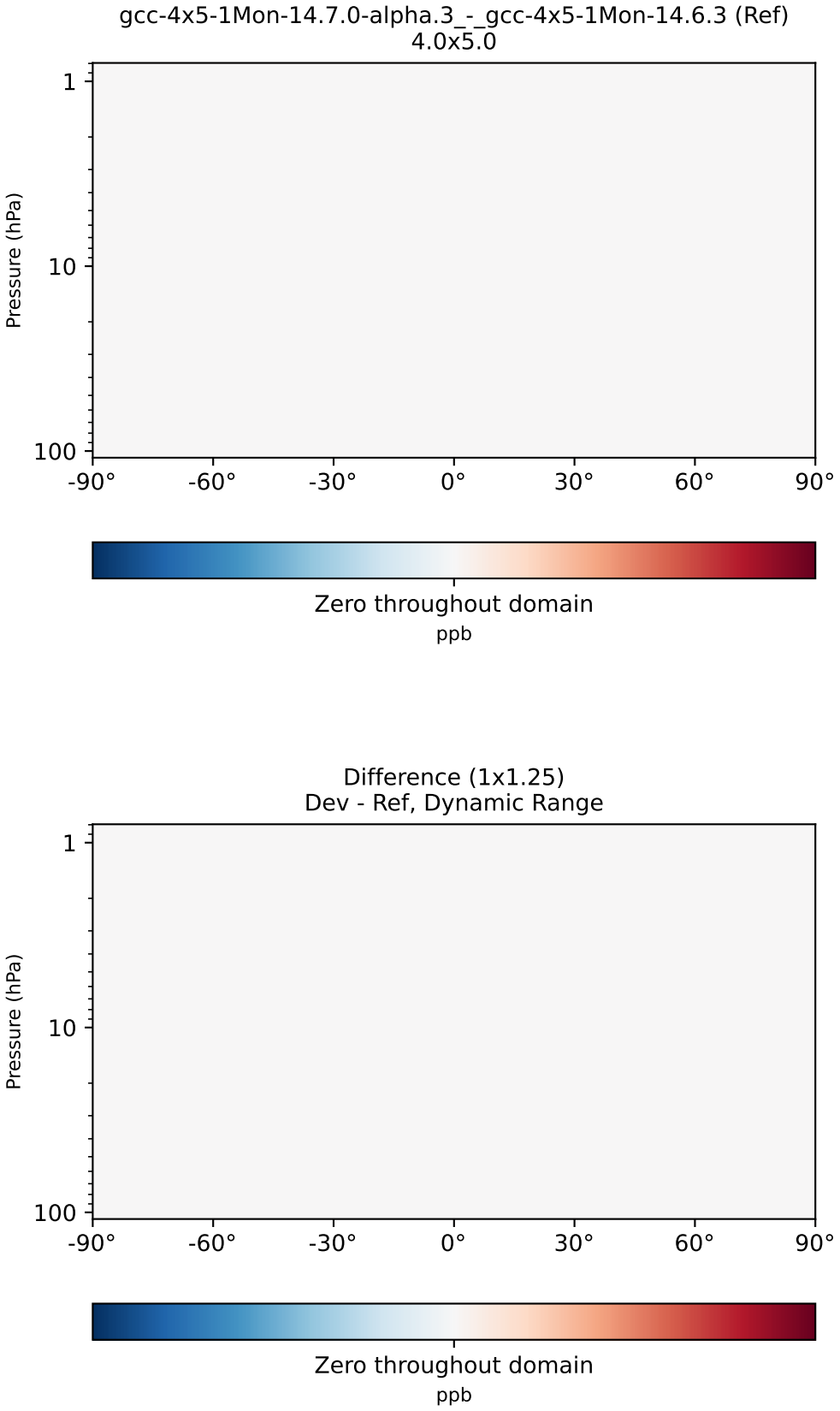


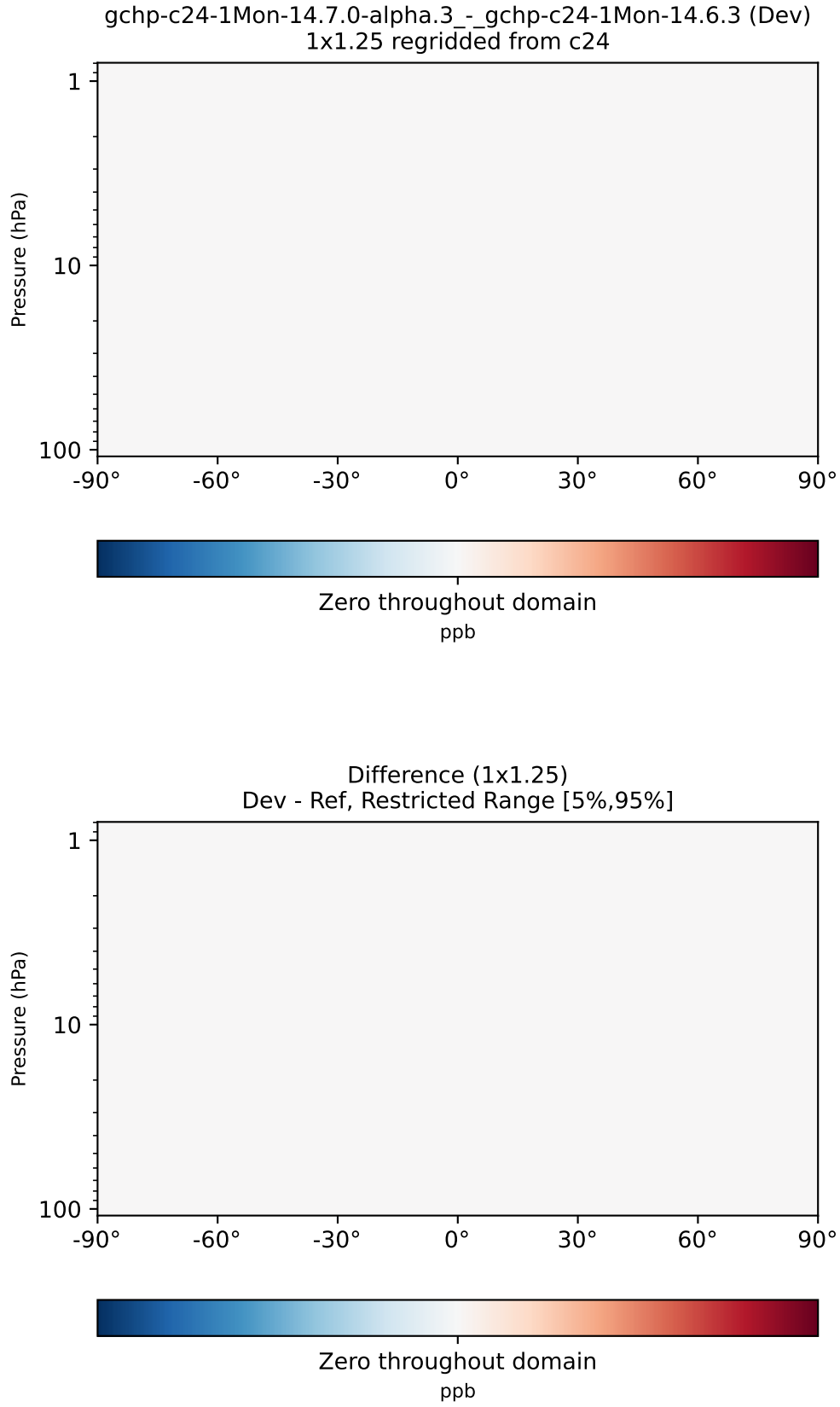


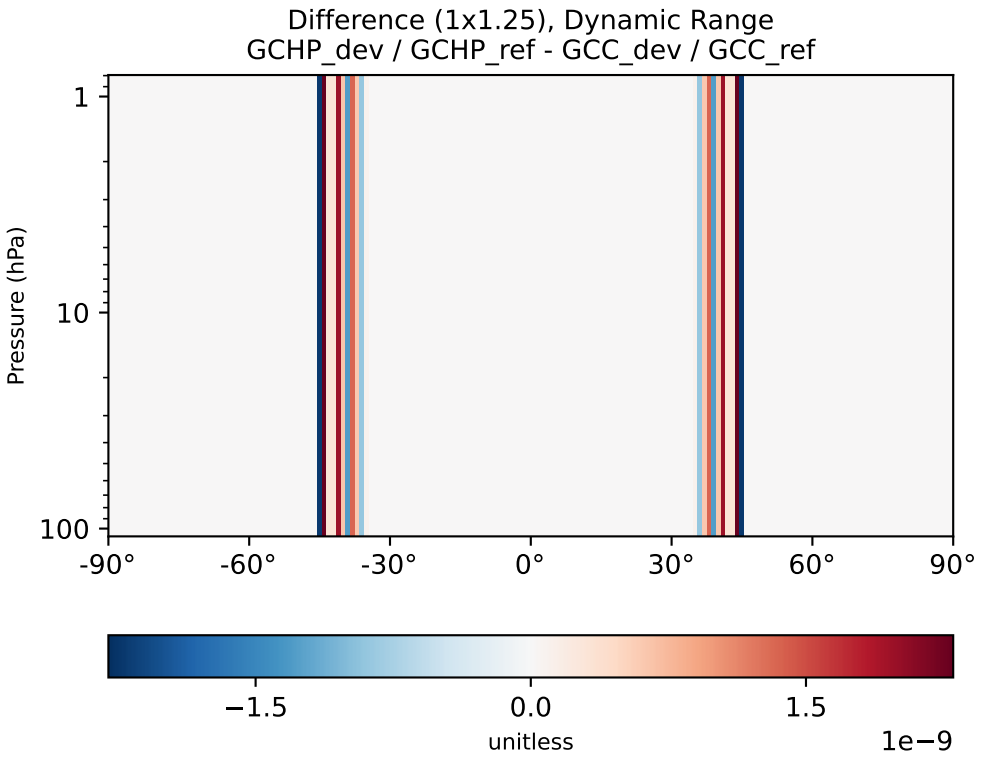


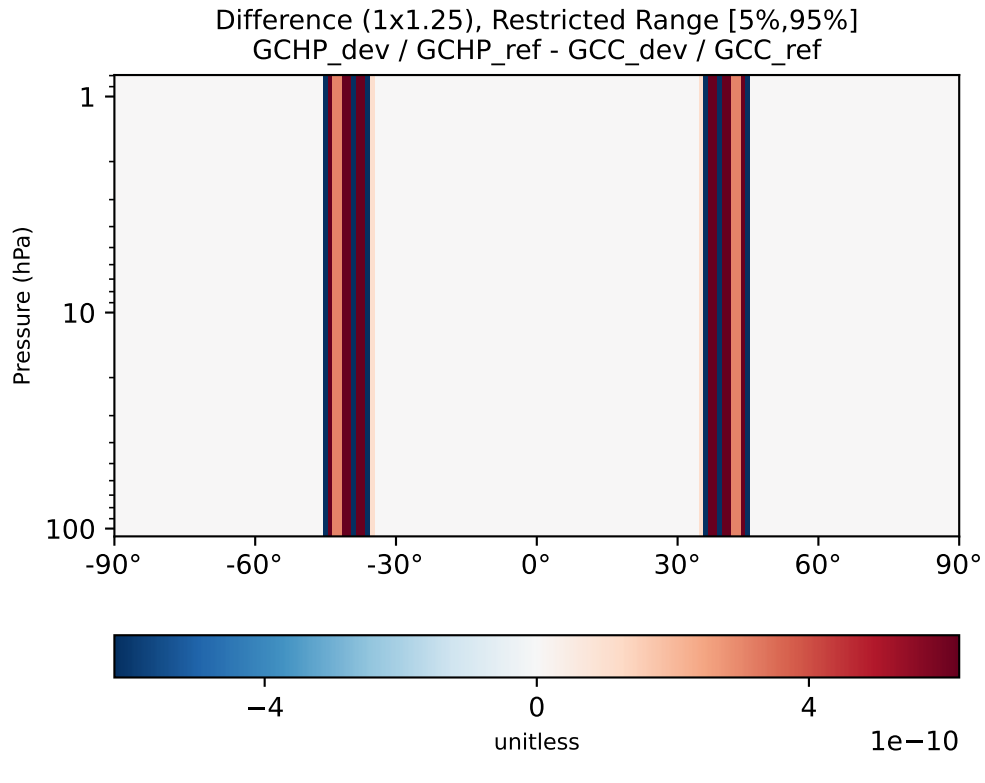


SpeciesConcVV_HMS, Zonal Mean



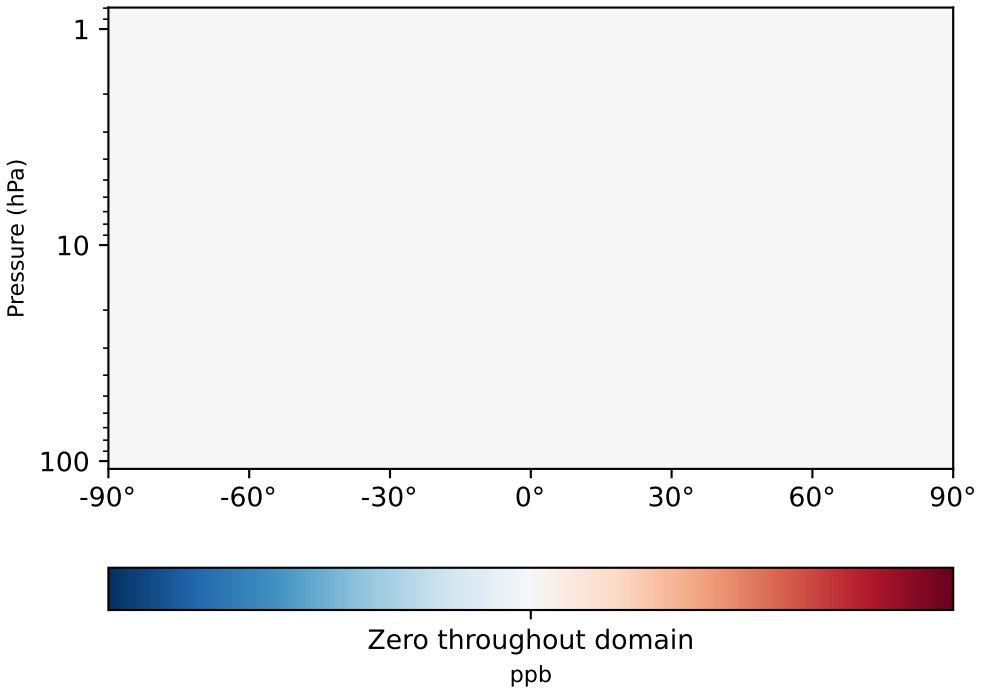




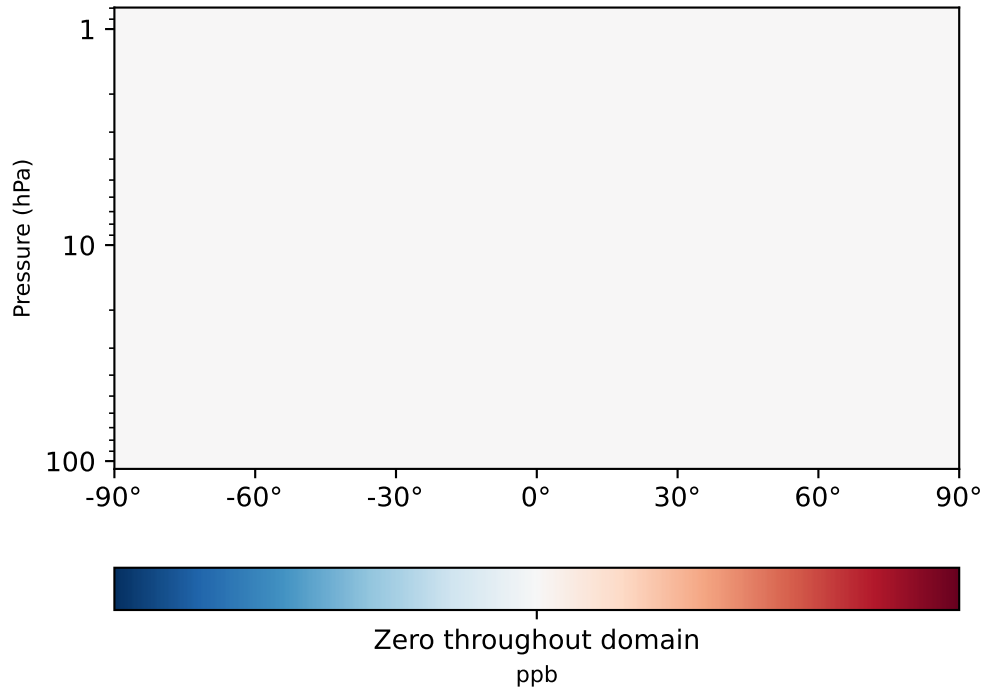


SpeciesConcVV_BCPI, Zonal Mean

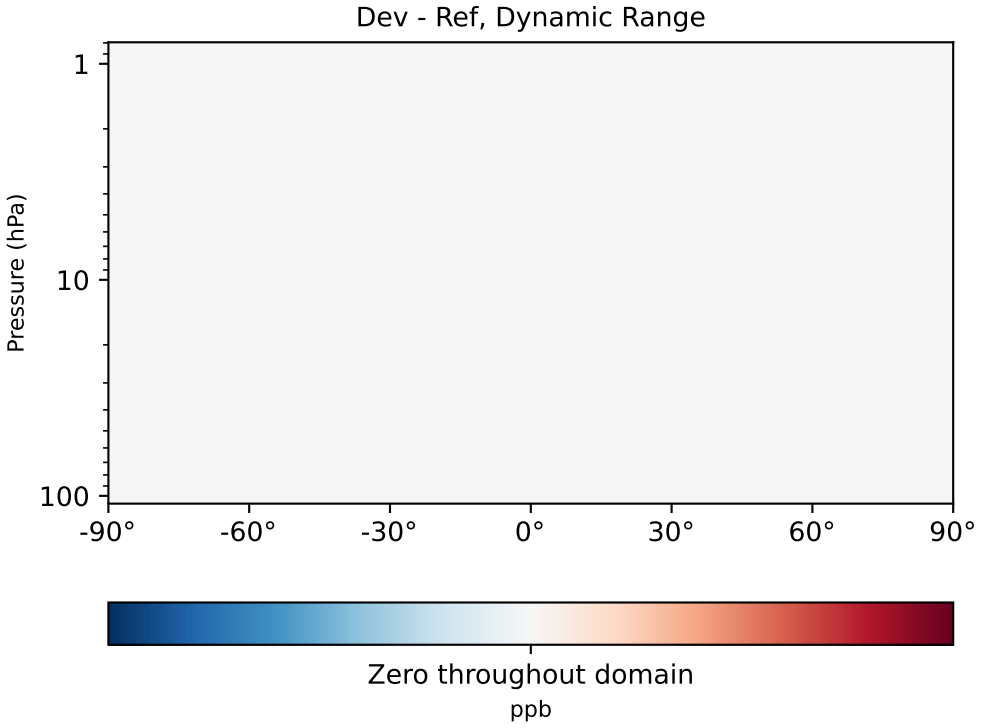
gcc-4x5-1Mon-14.7.0-alpha.3_-_gcc-4x5-1Mon-14.6.3 (Ref)
4.0x5.0



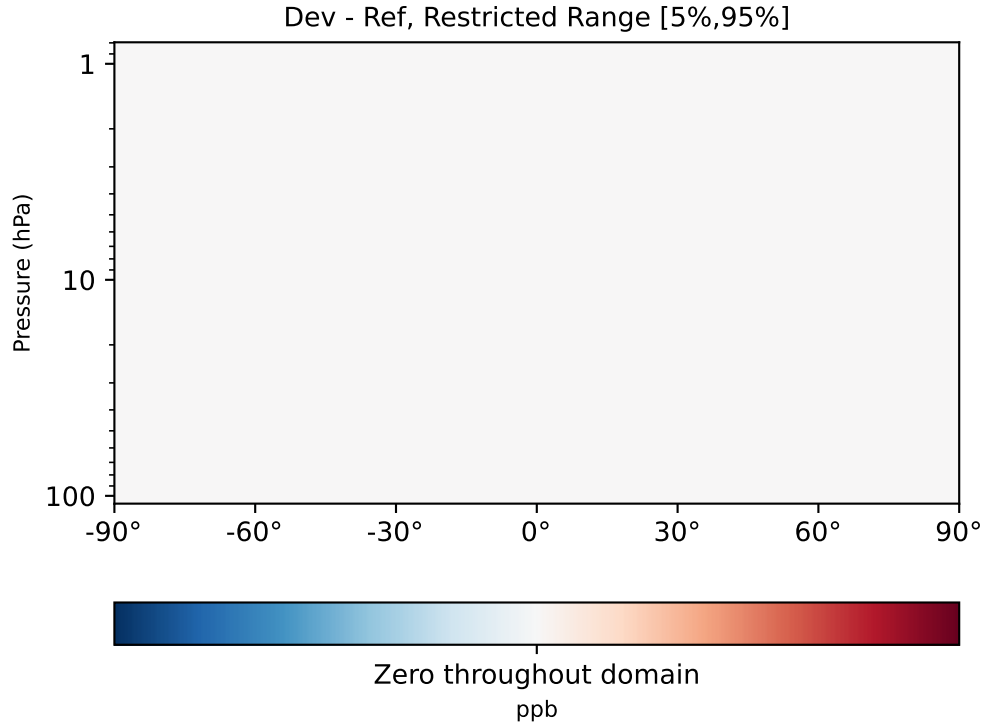
gchp-c24-1Mon-14.7.0-alpha.3_-_gchp-c24-1Mon-14.6.3 (Dev)
1x1.25 regridded from c24



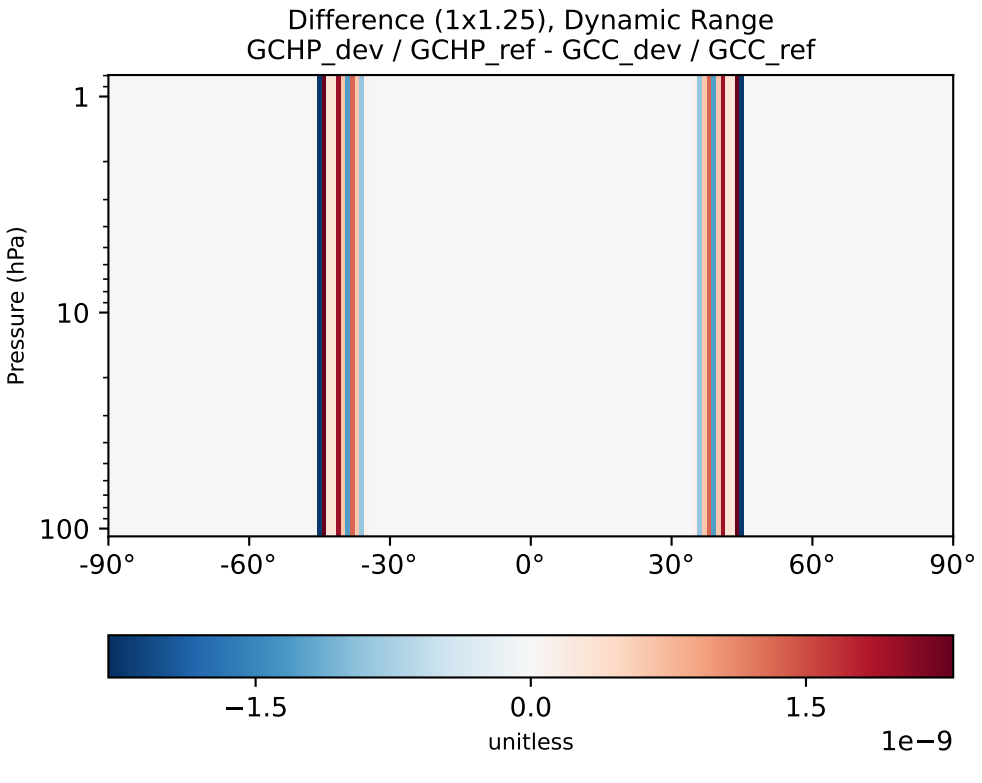
Difference (1x1.25)
Dev - Ref, Dynamic Range



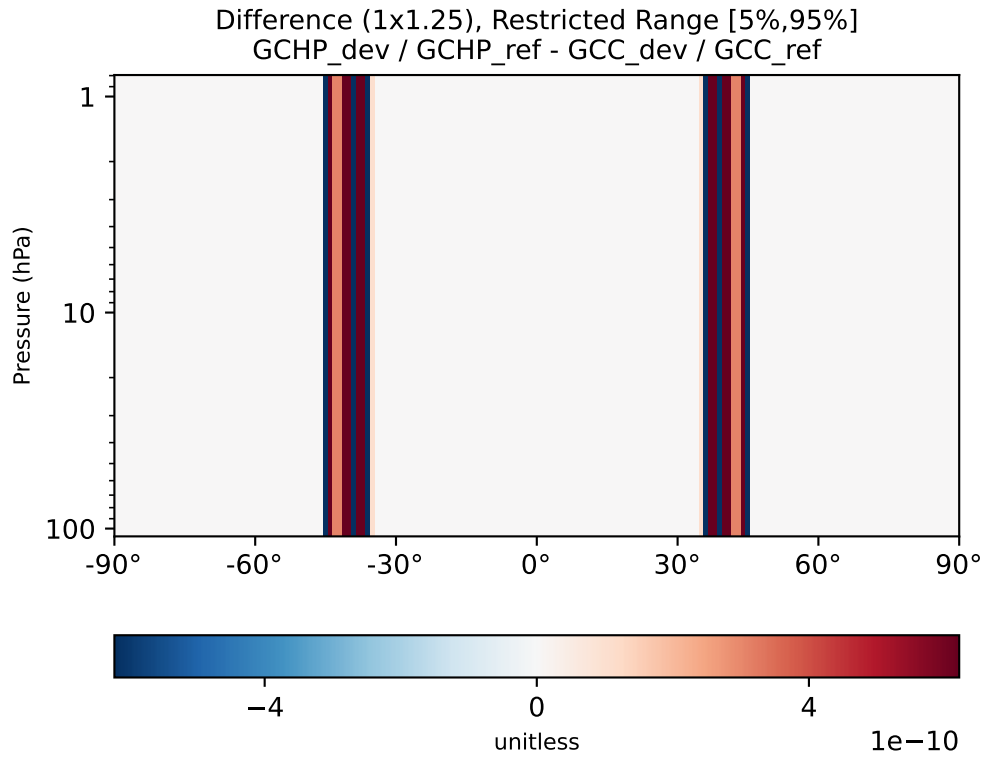
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



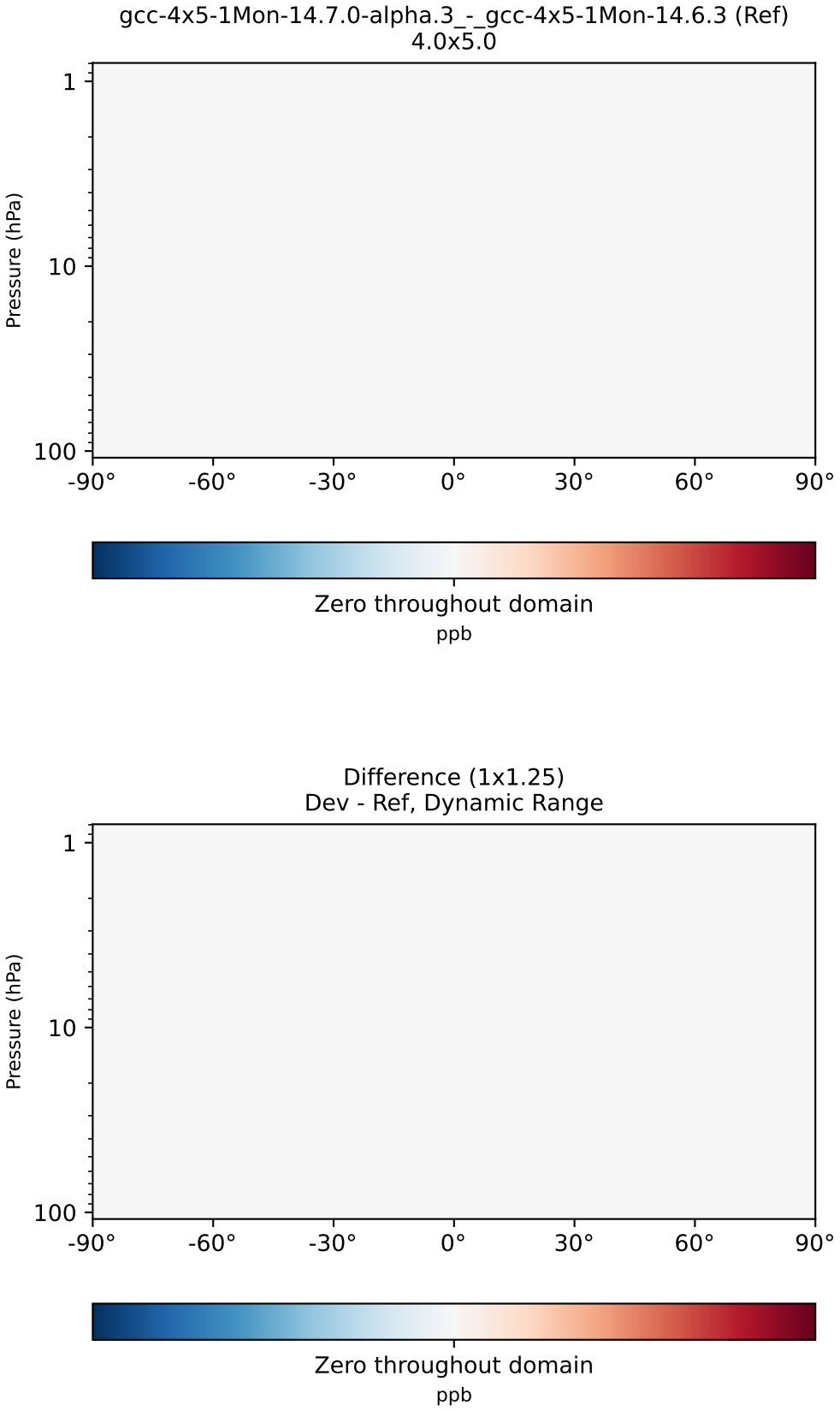
Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

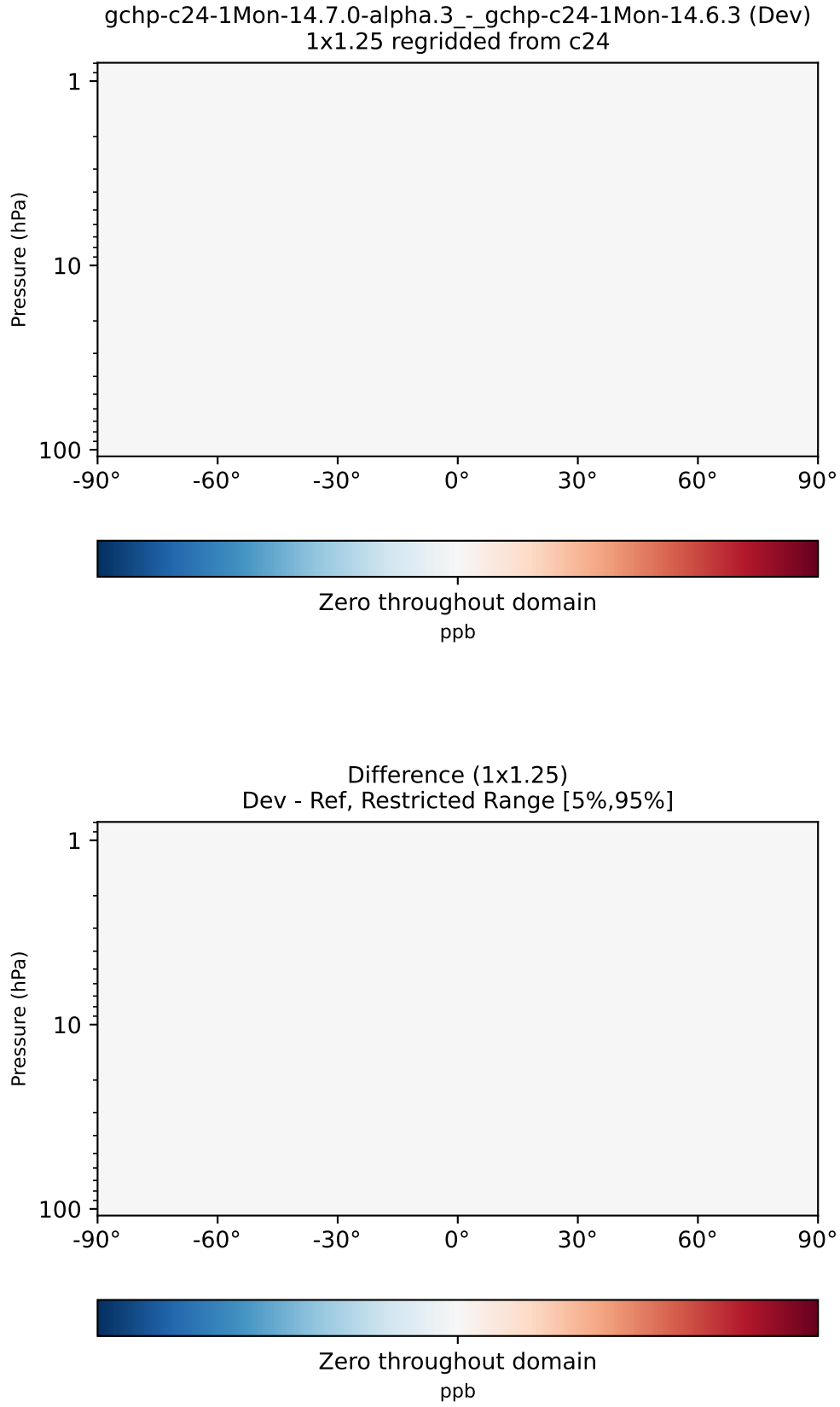


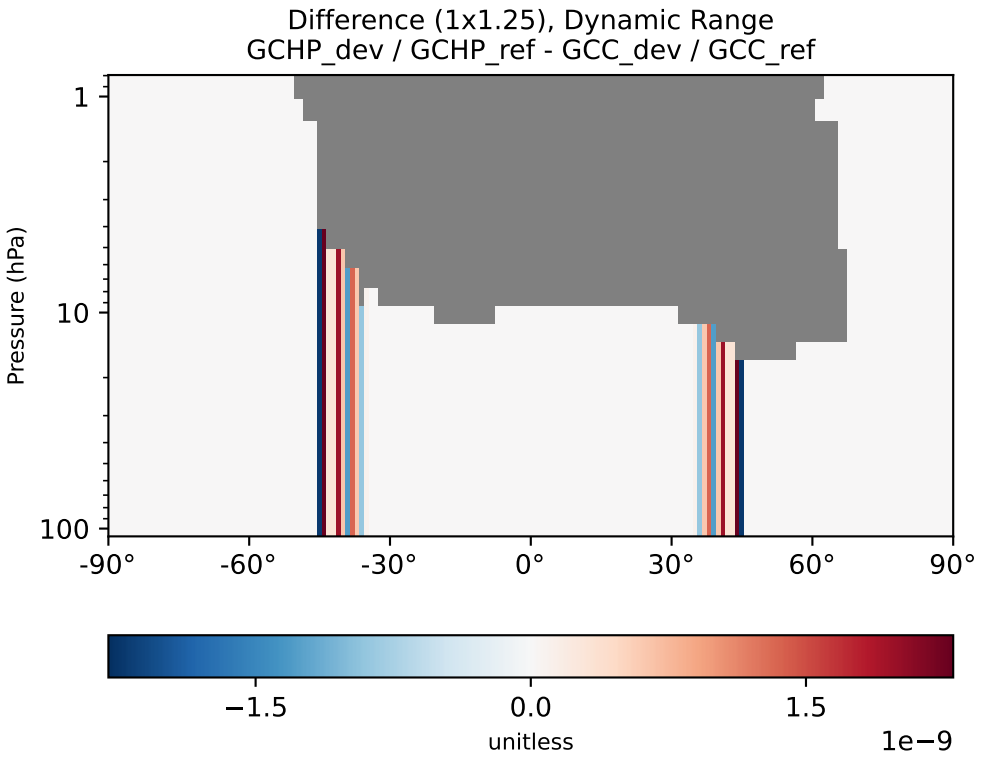
Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

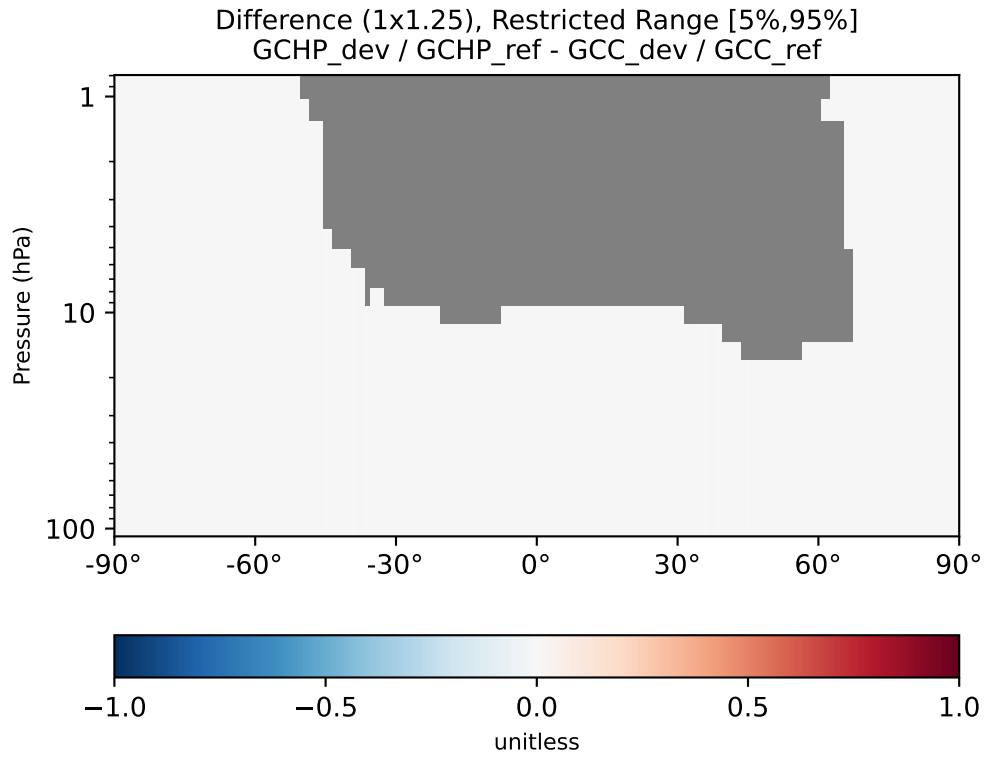


SpeciesConcVV_BCPO, Zonal Mean

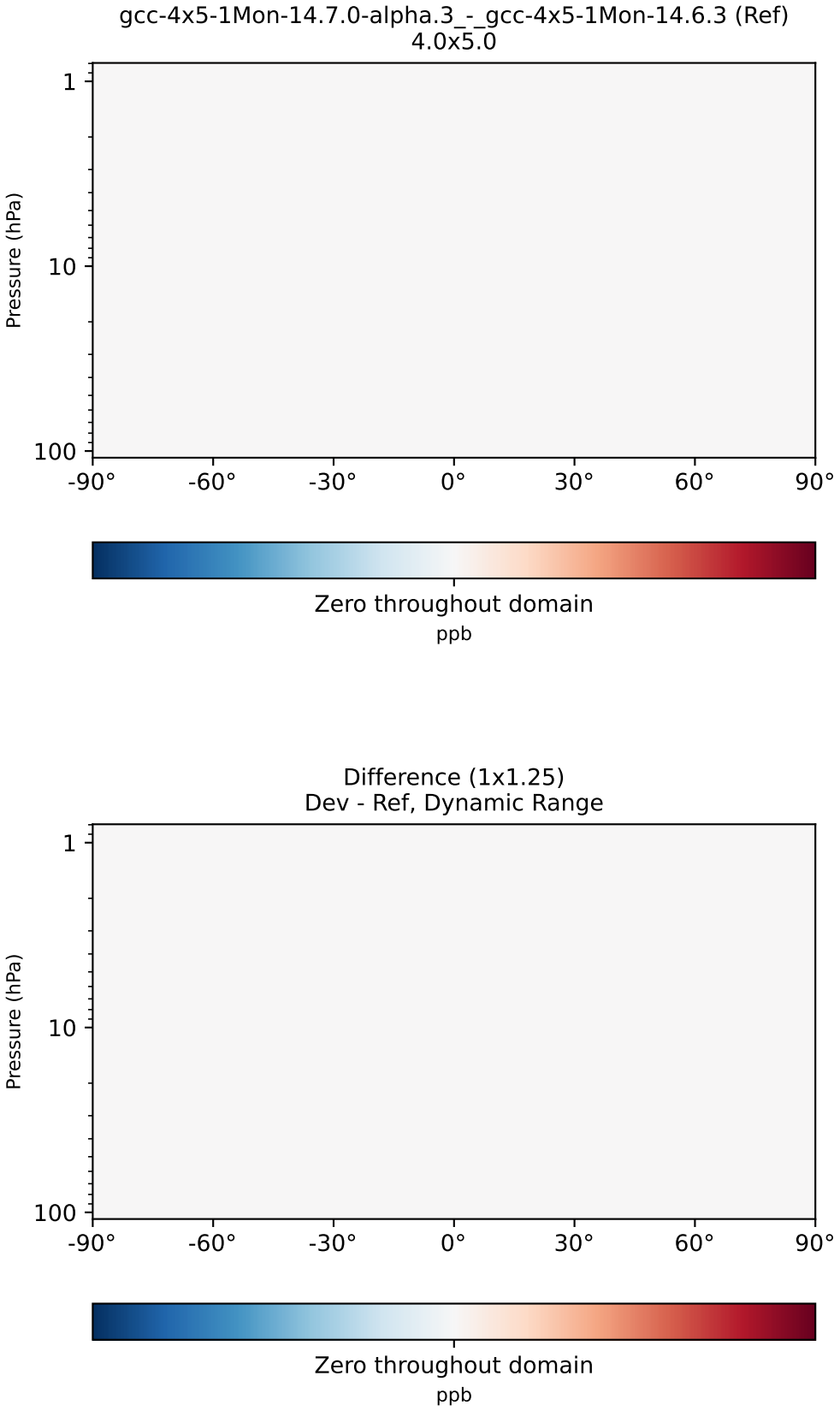


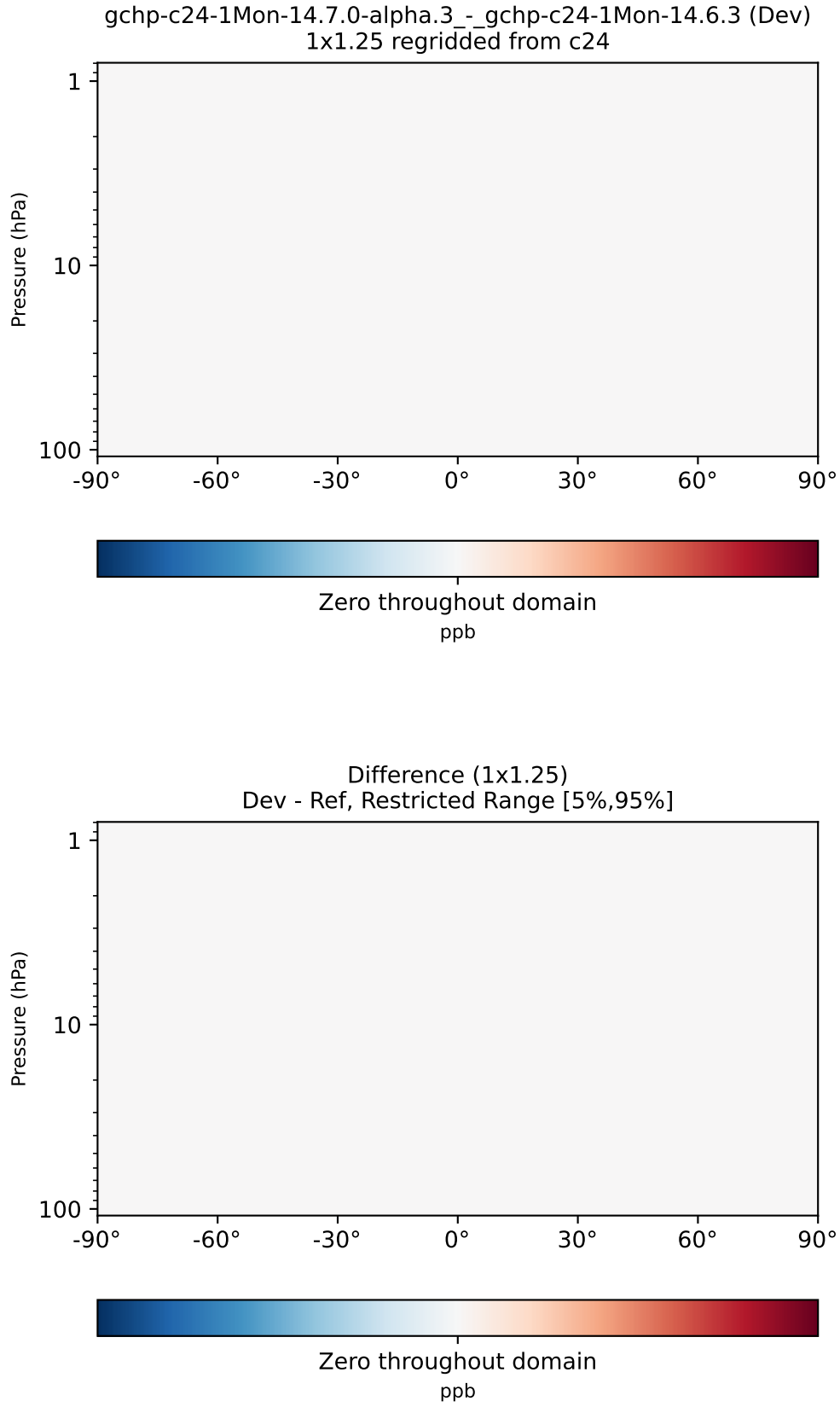


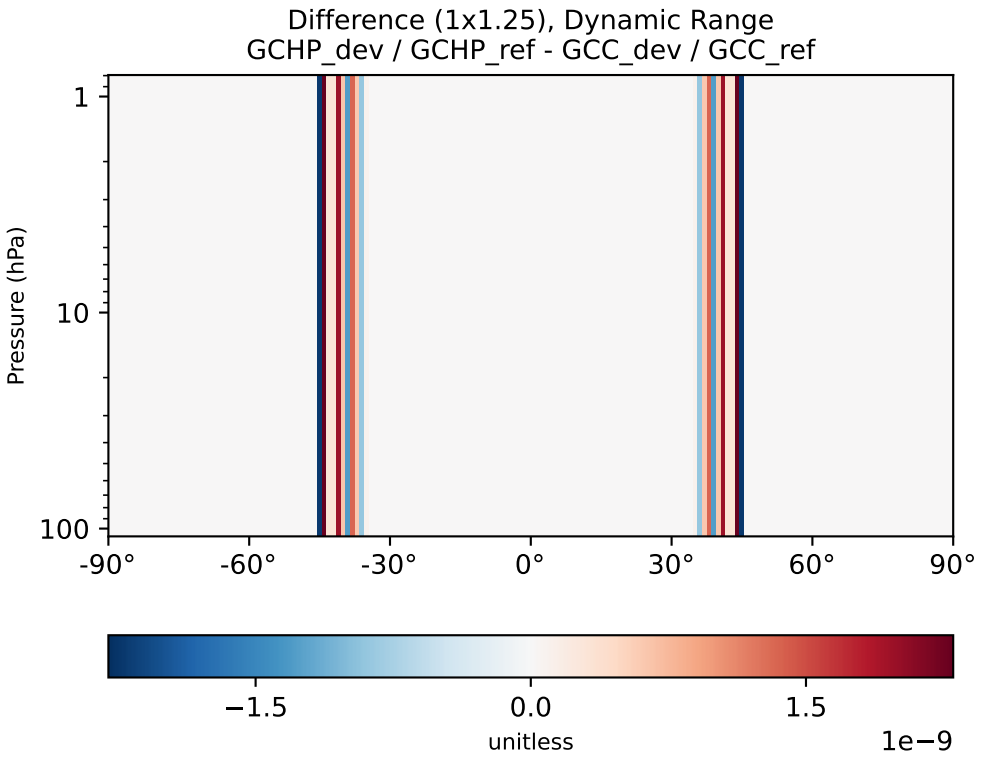


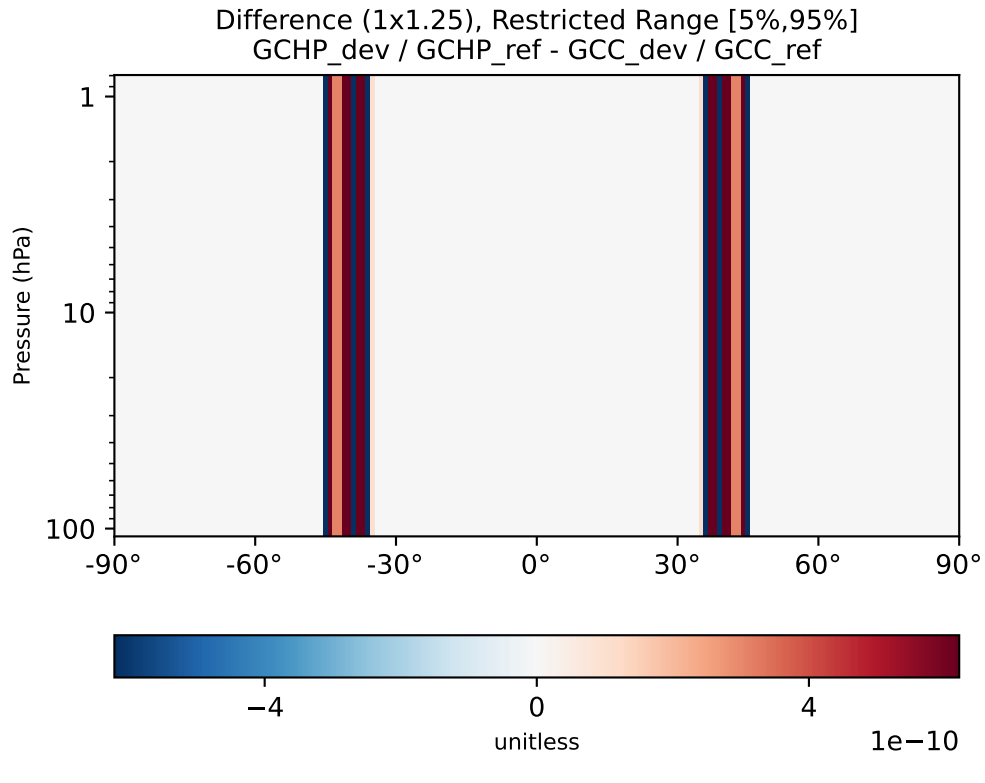


SpeciesConcVV_OCPI, Zonal Mean



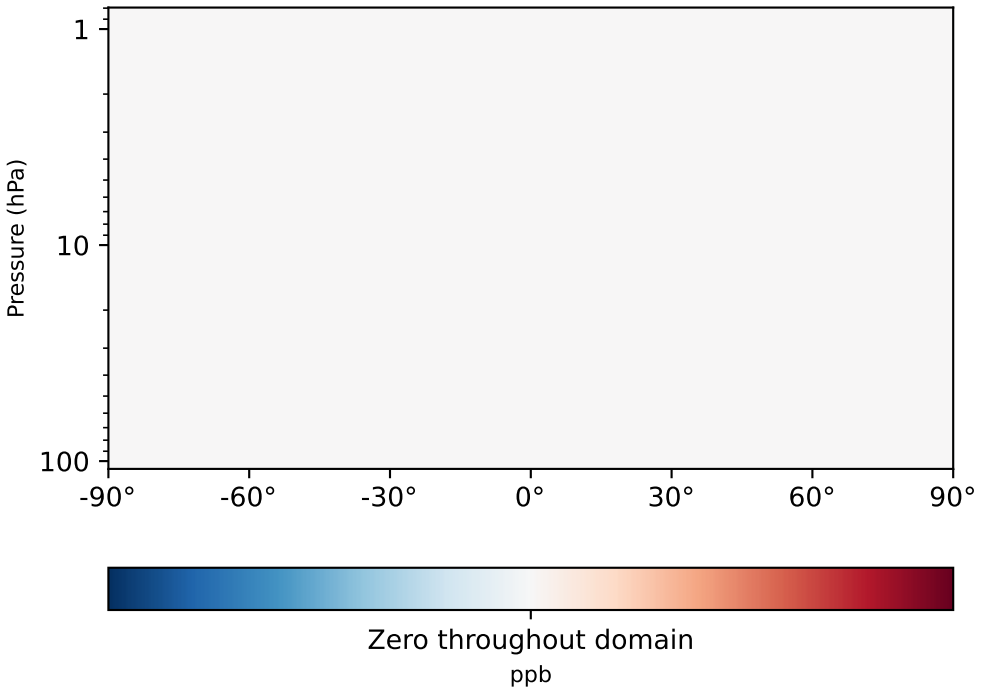




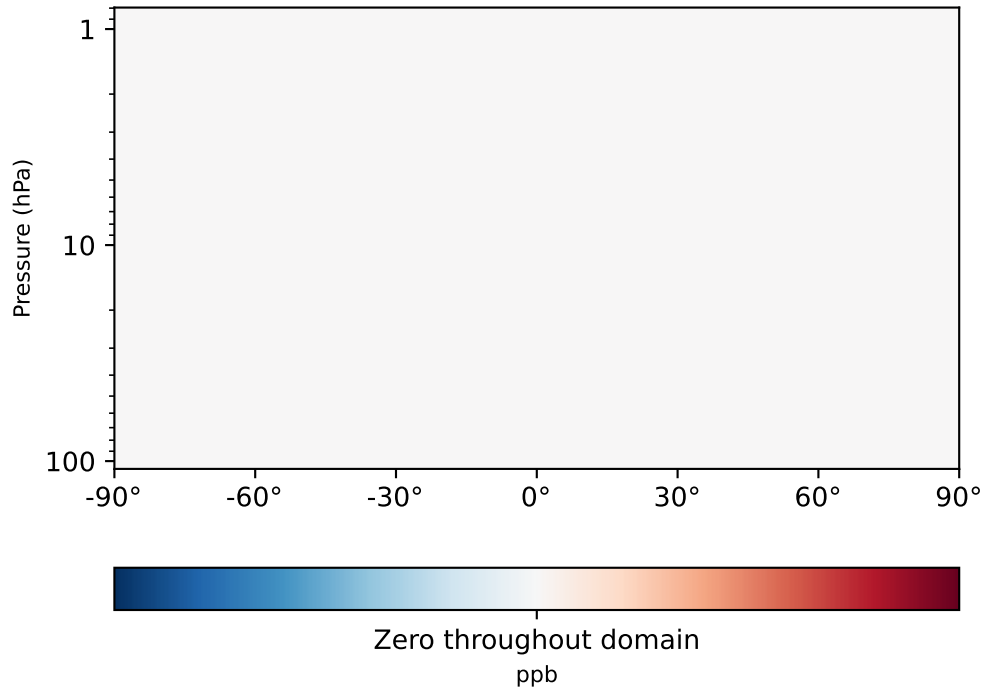


SpeciesConcVV_OCPO, Zonal Mean

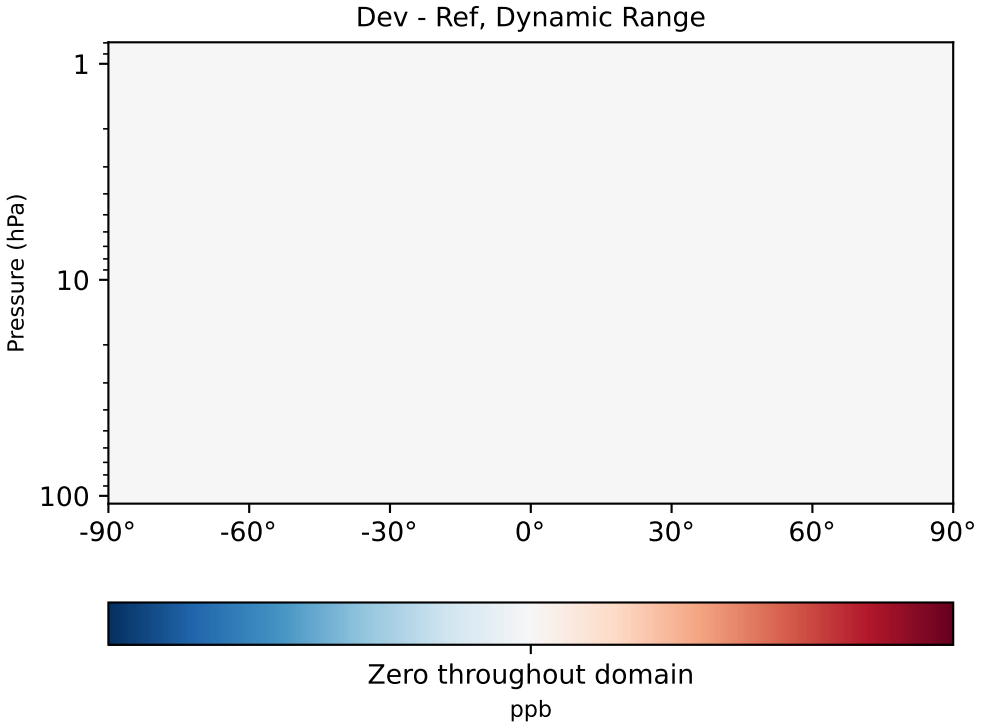
gcc-4x5-1Mon-14.7.0-alpha.3_-_gcc-4x5-1Mon-14.6.3 (Ref)
4.0x5.0



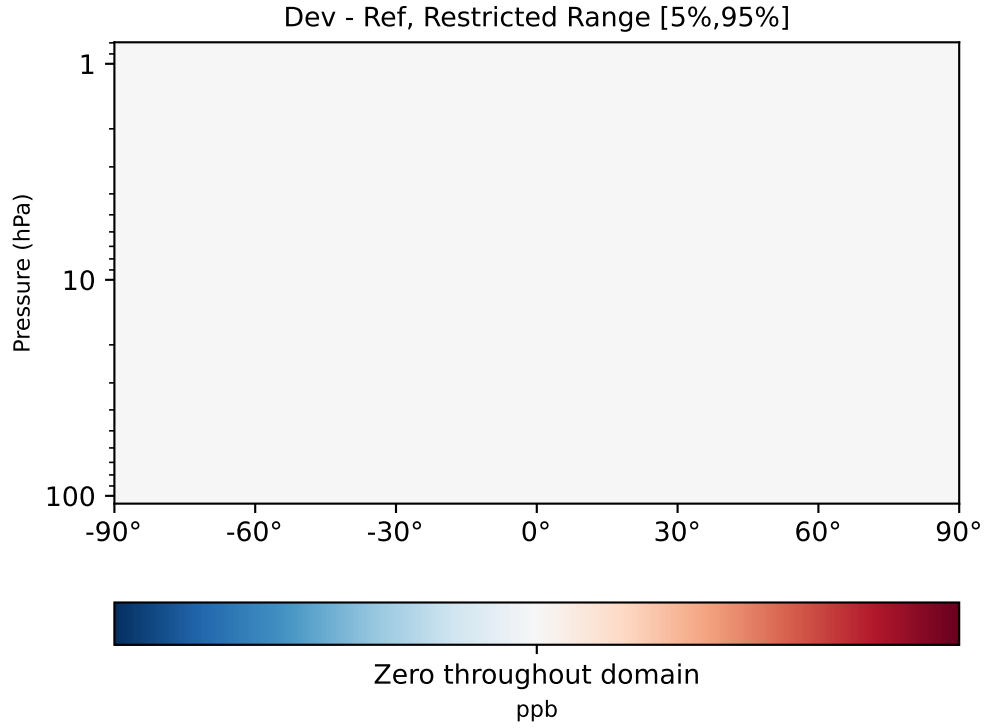
gchp-c24-1Mon-14.7.0-alpha.3_-_gchp-c24-1Mon-14.6.3 (Dev)
1x1.25 regridded from c24



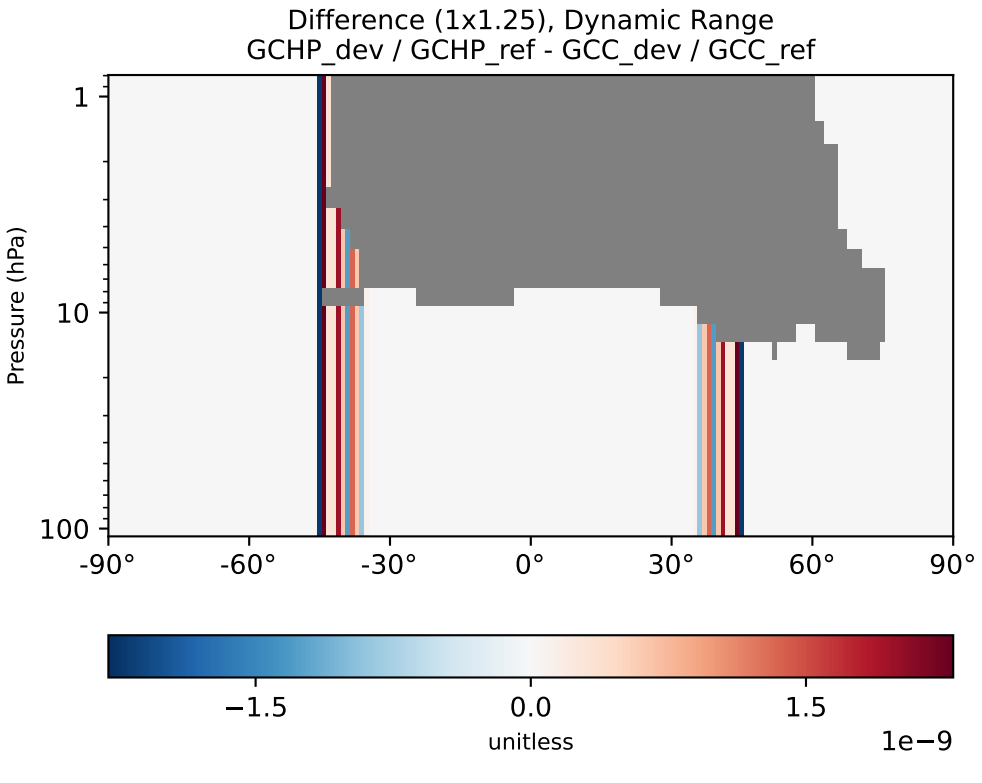
Difference (1x1.25)
Dev - Ref, Dynamic Range



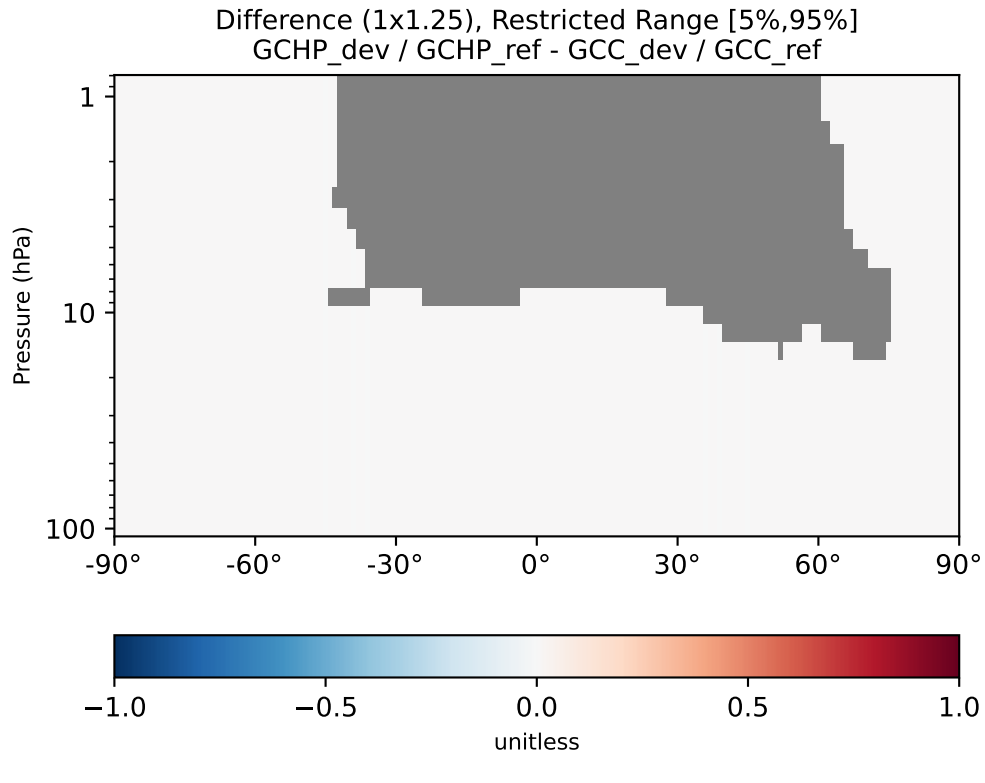
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



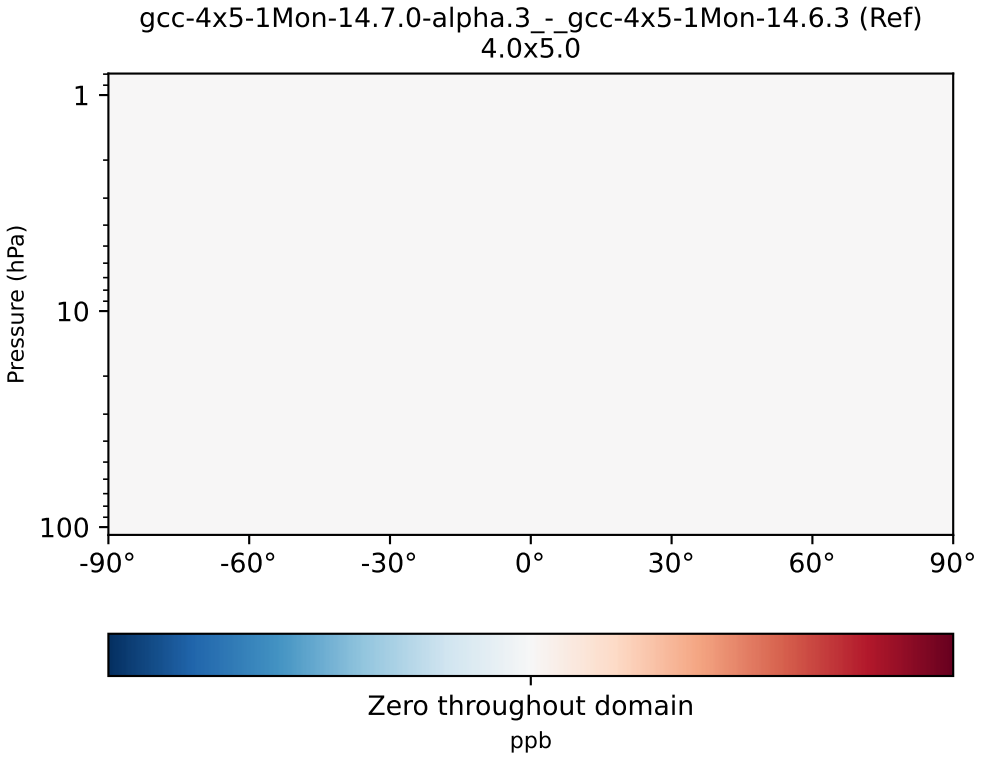
Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

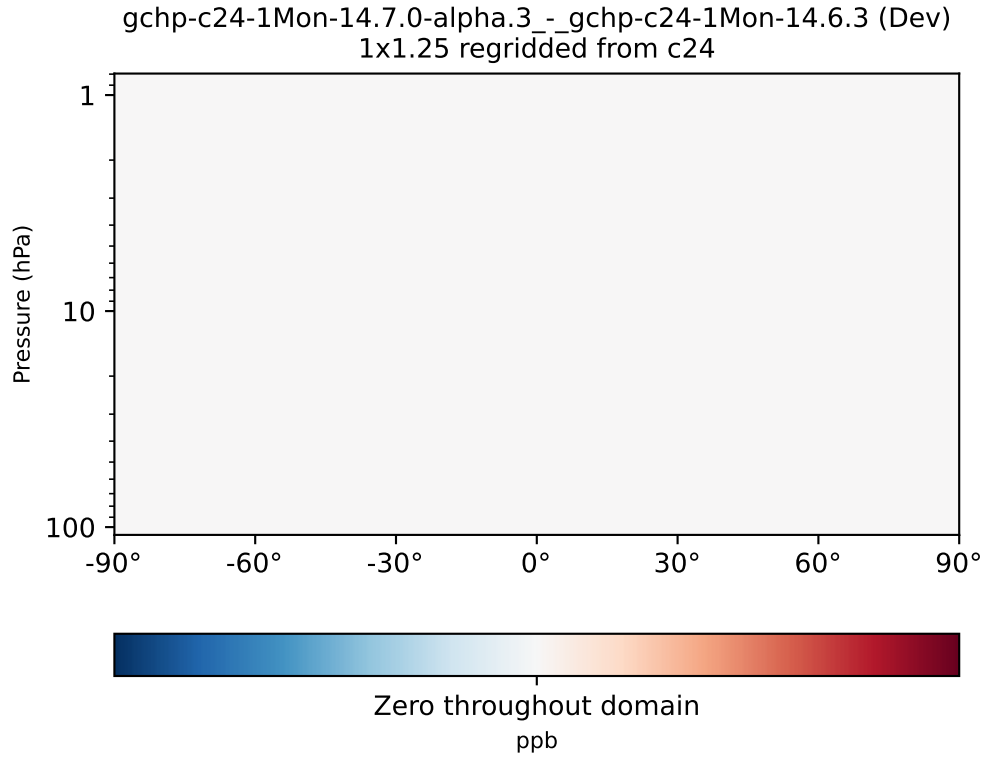


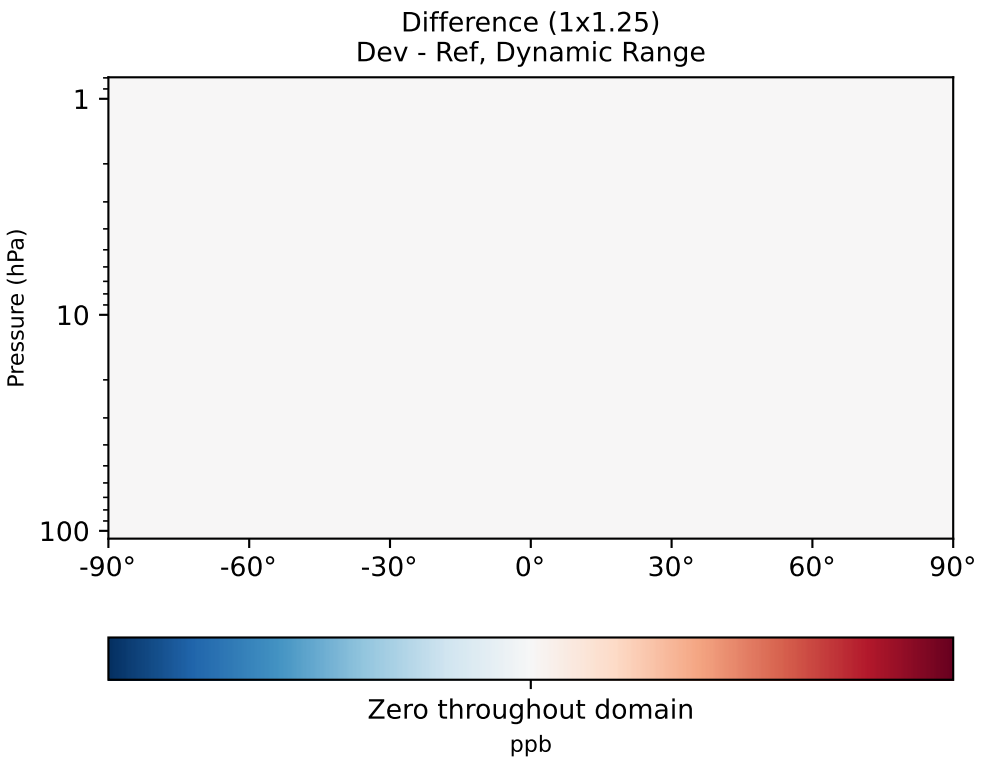
Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

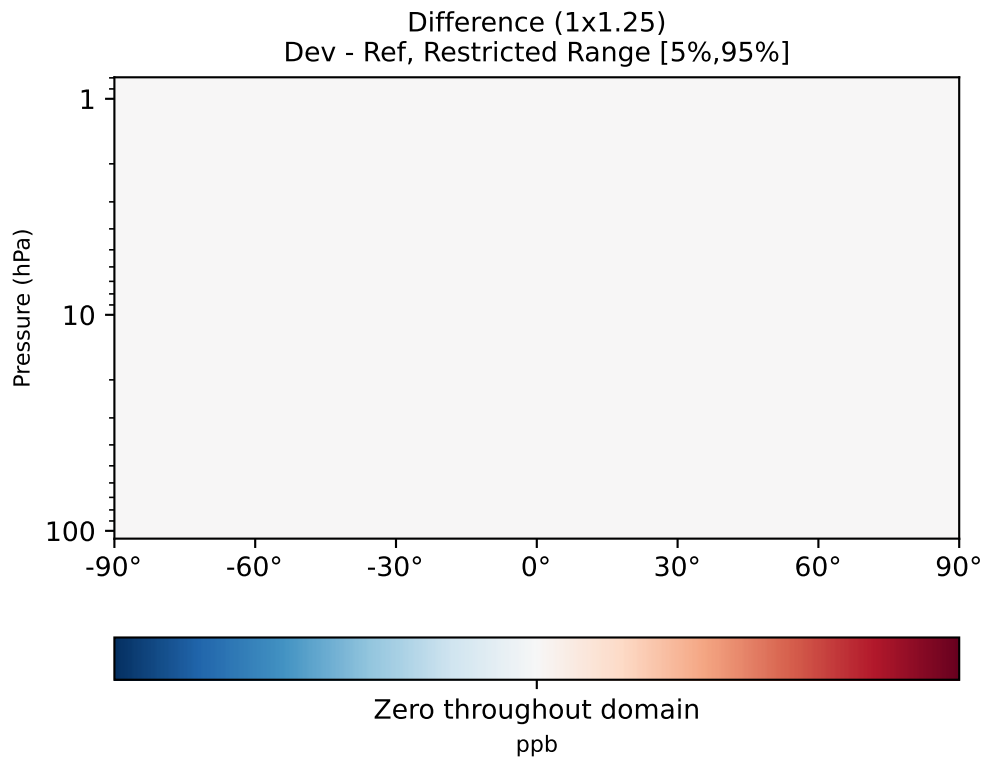


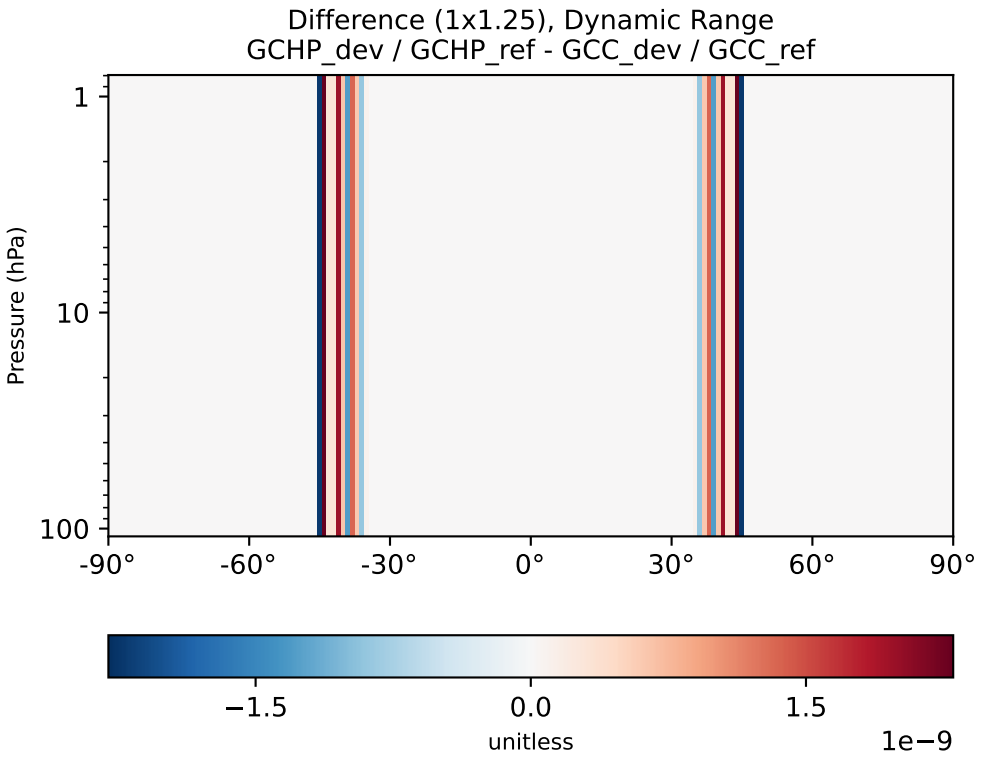
SpeciesConcVV_Complex_SOA, Zonal Mean

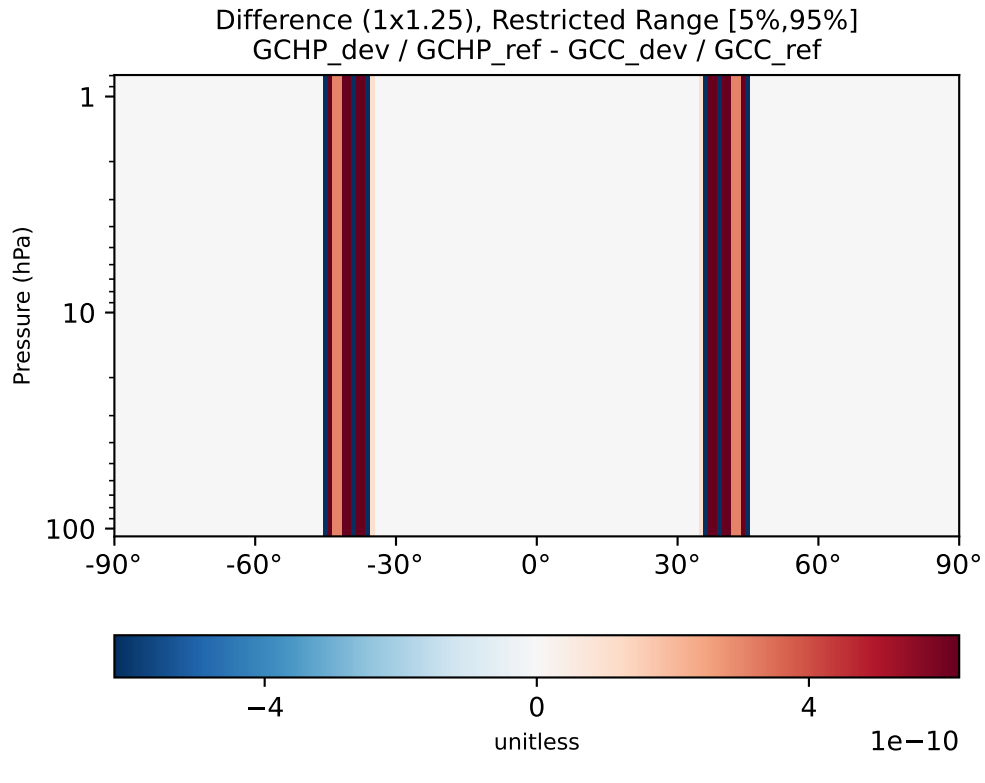




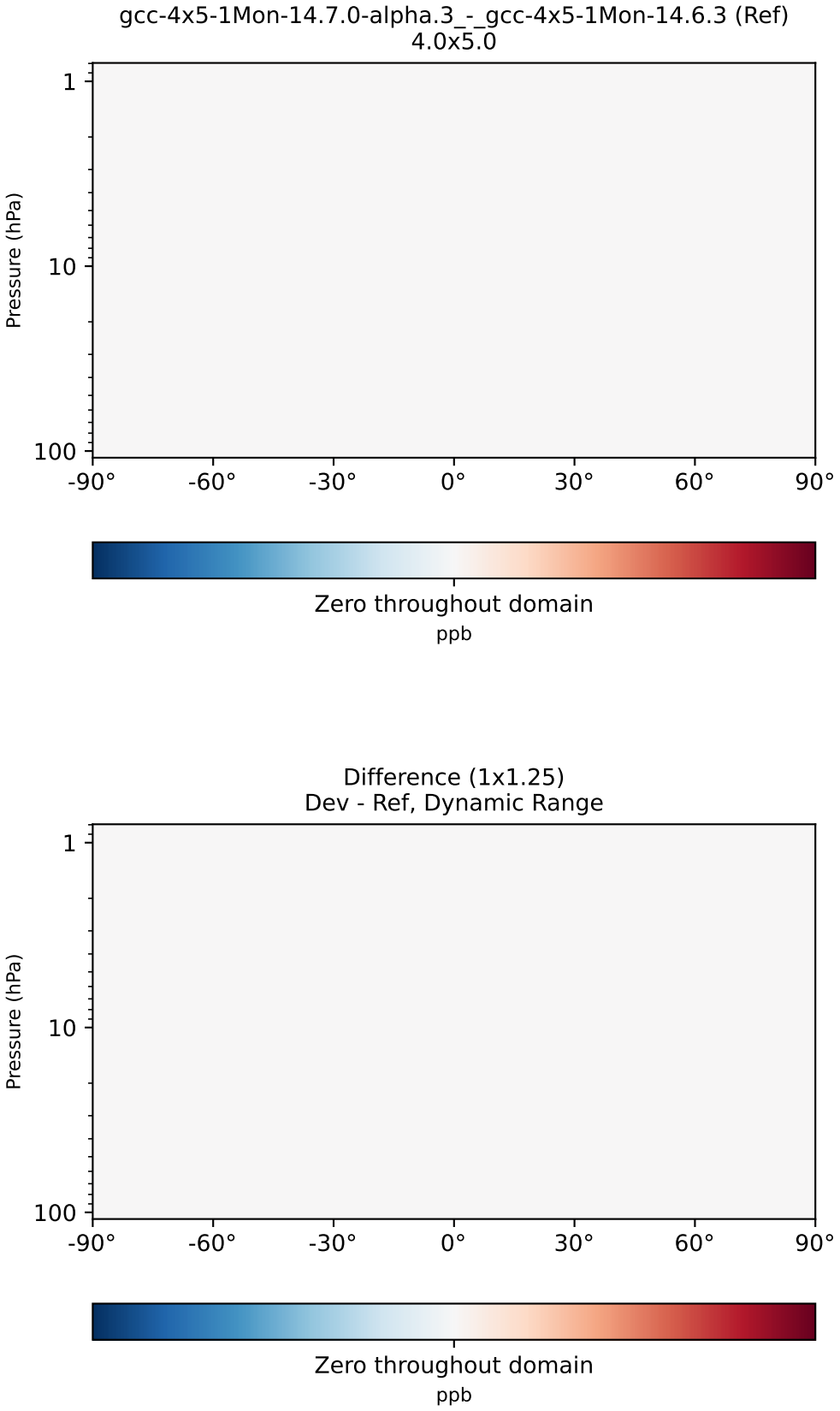


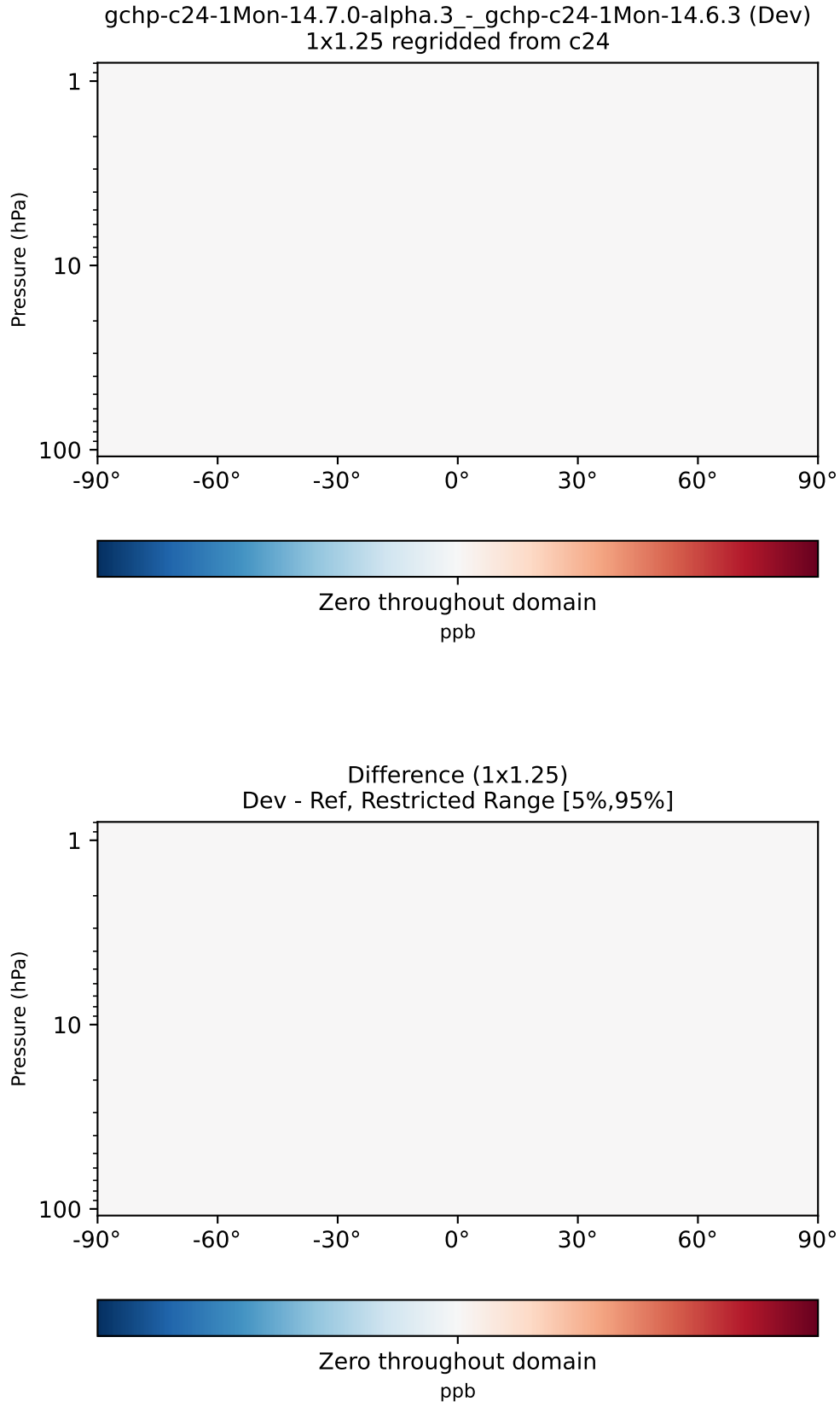


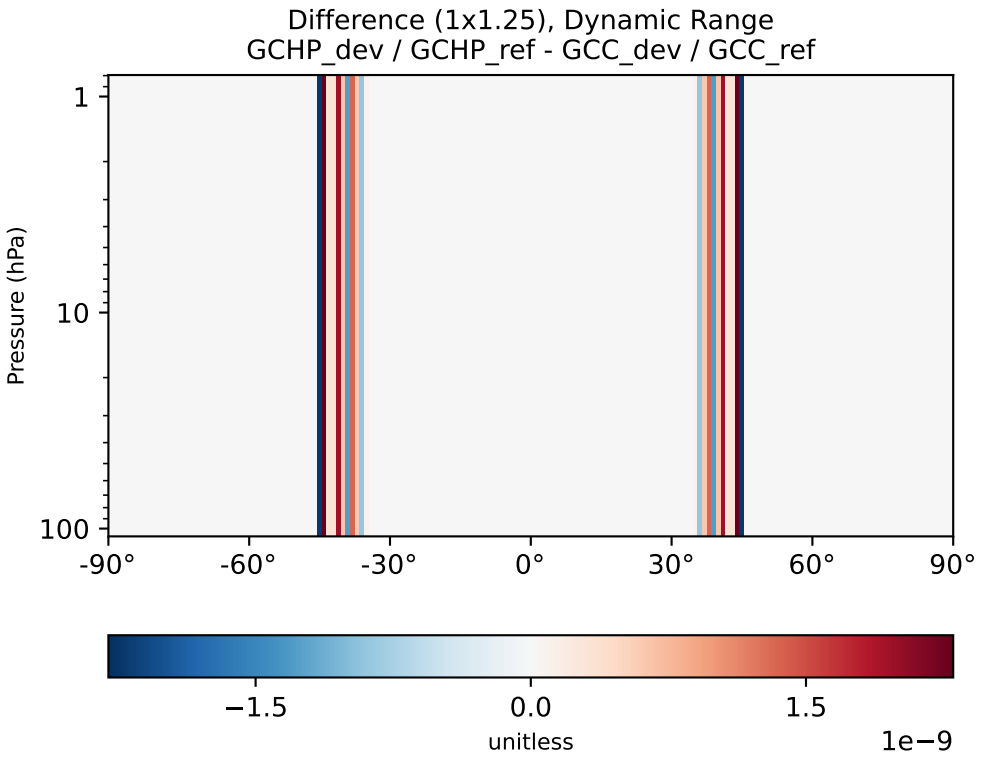


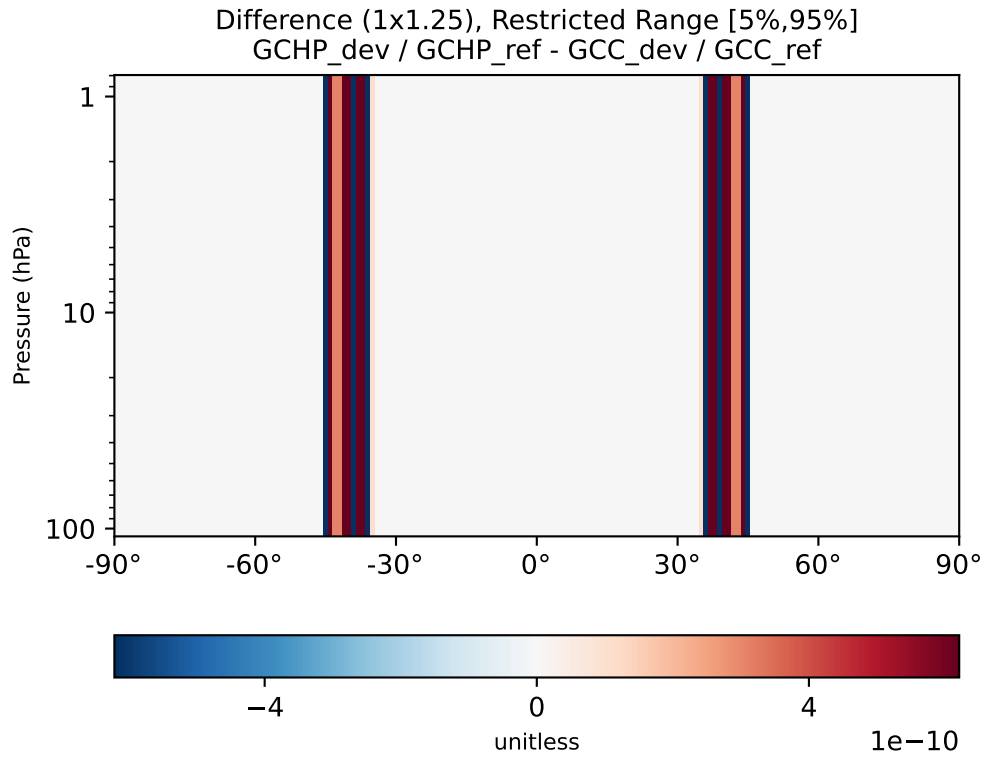


SpeciesConcVV_Simple_SOA, Zonal Mean









SpeciesConcVV_AERI, Zonal Mean

gcc-4x5-1Mon-14.7.0-alpha.3_-_gcc-4x5-1Mon-14.6.3 (Ref)
4.0x5.0

gchp-c24-1Mon-14.7.0-alpha.3_-_gchp-c24-1Mon-14.6.3 (Dev)
1x1.25 regridded from c24

Pressure (hPa)
1
10
100
-90° -60° -30° 0° 30° 60° 90°

Zero throughout domain
ppb

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

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

Zero throughout domain
ppb

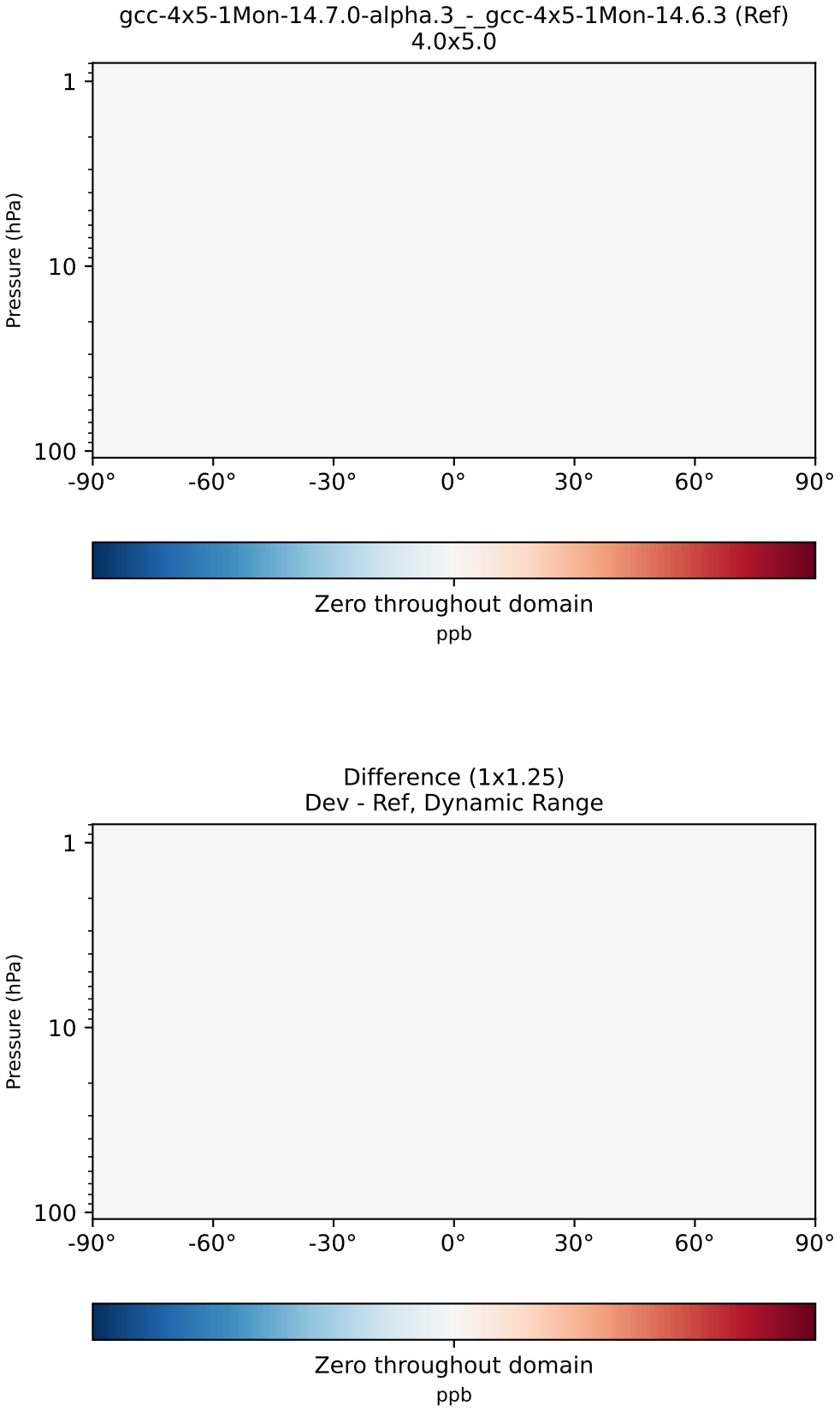
Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

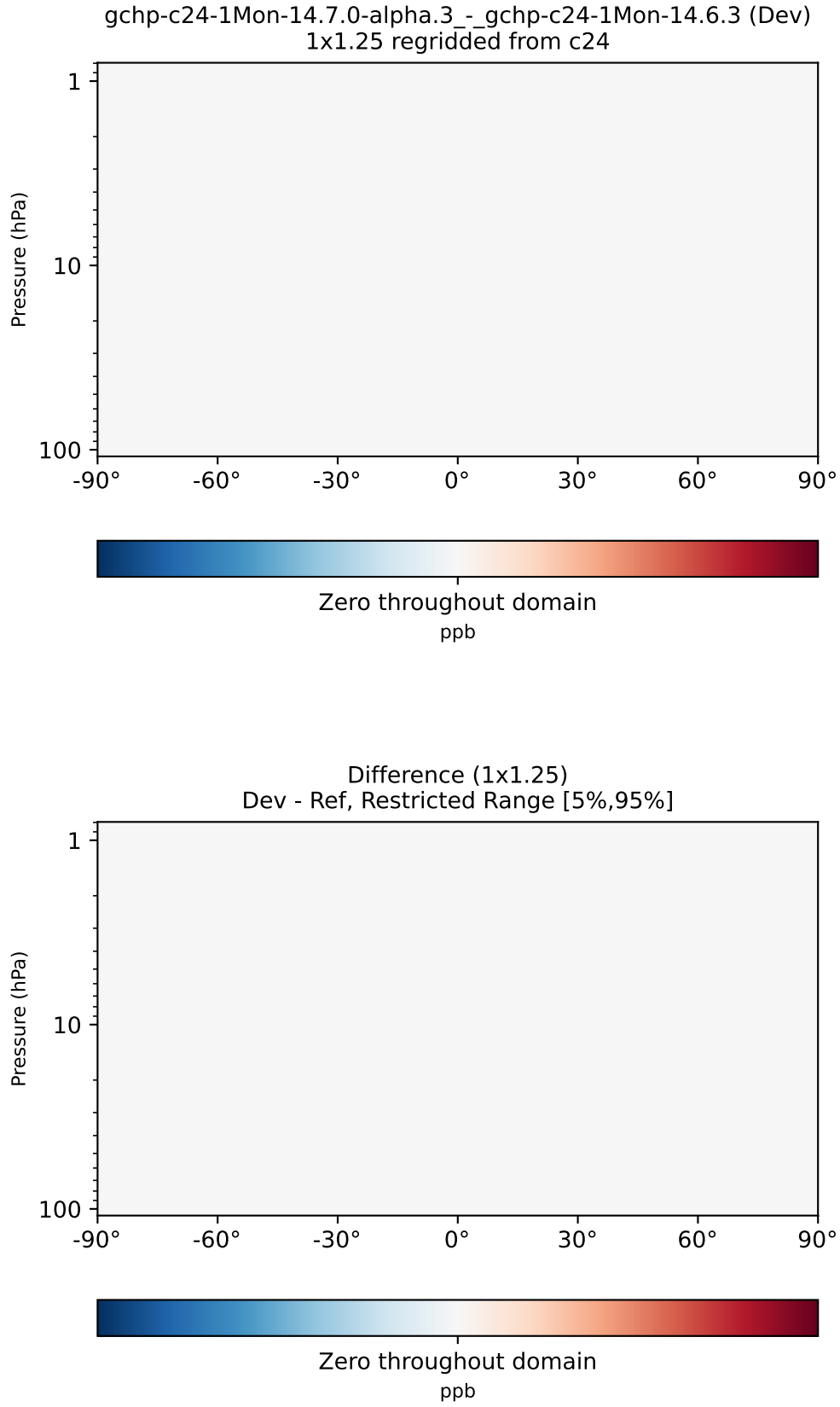
Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

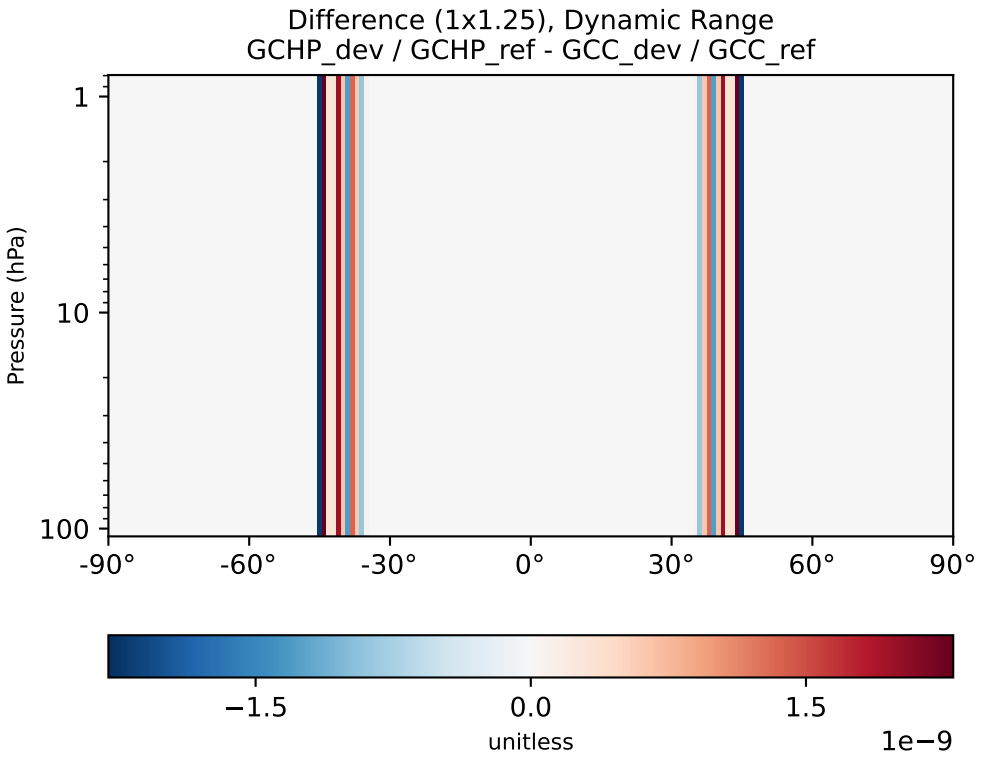
−1.5 0.0 1.5
unitless
1e−9

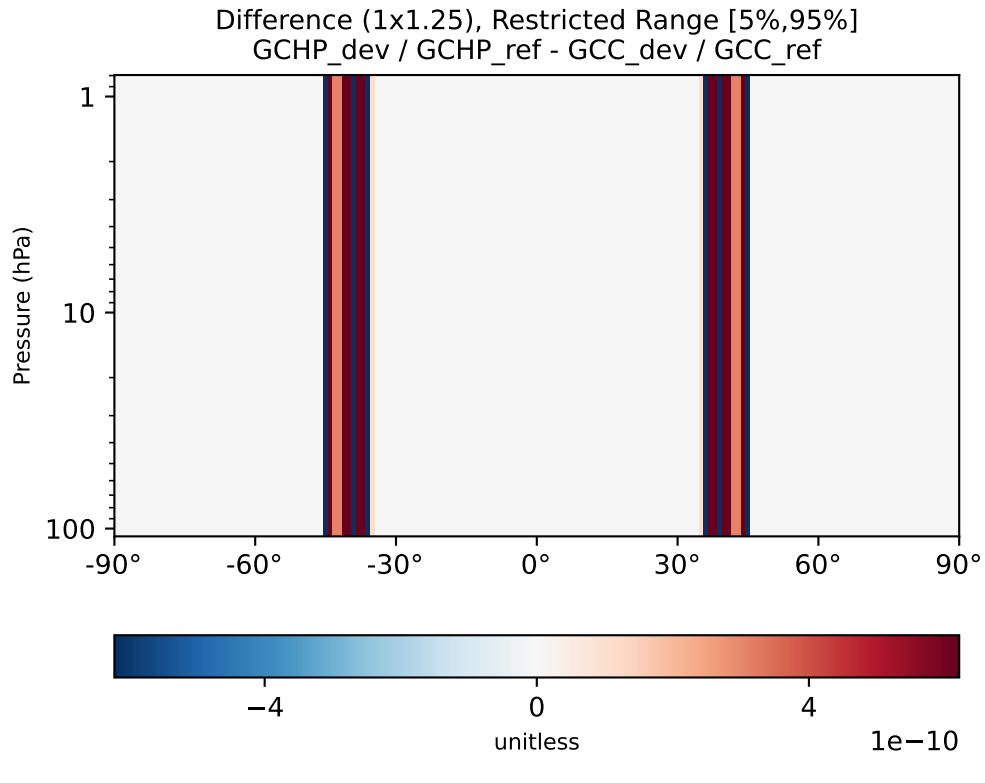
−4 0 4
unitless
1e−10

SpeciesConcVV_BrSALA, Zonal Mean

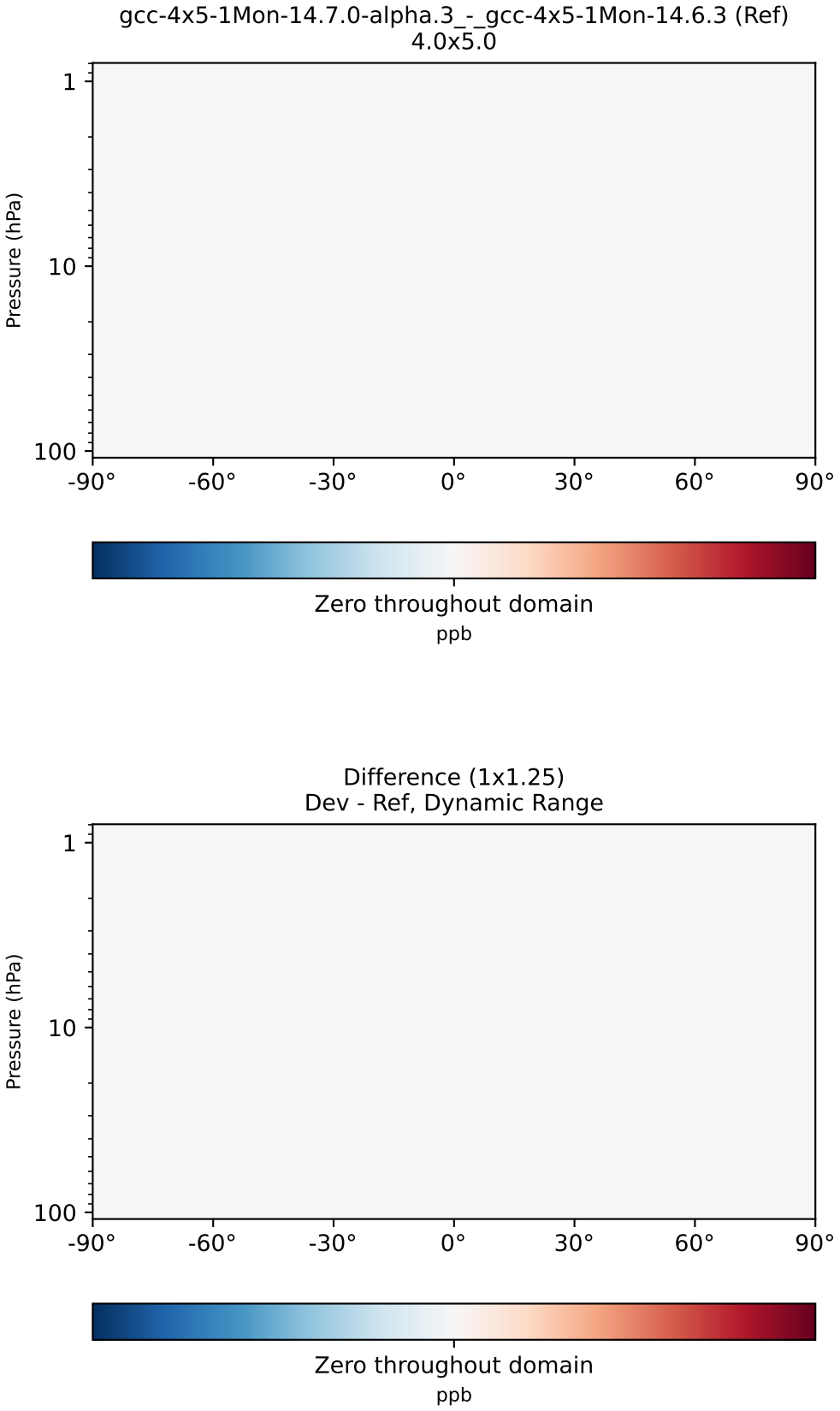


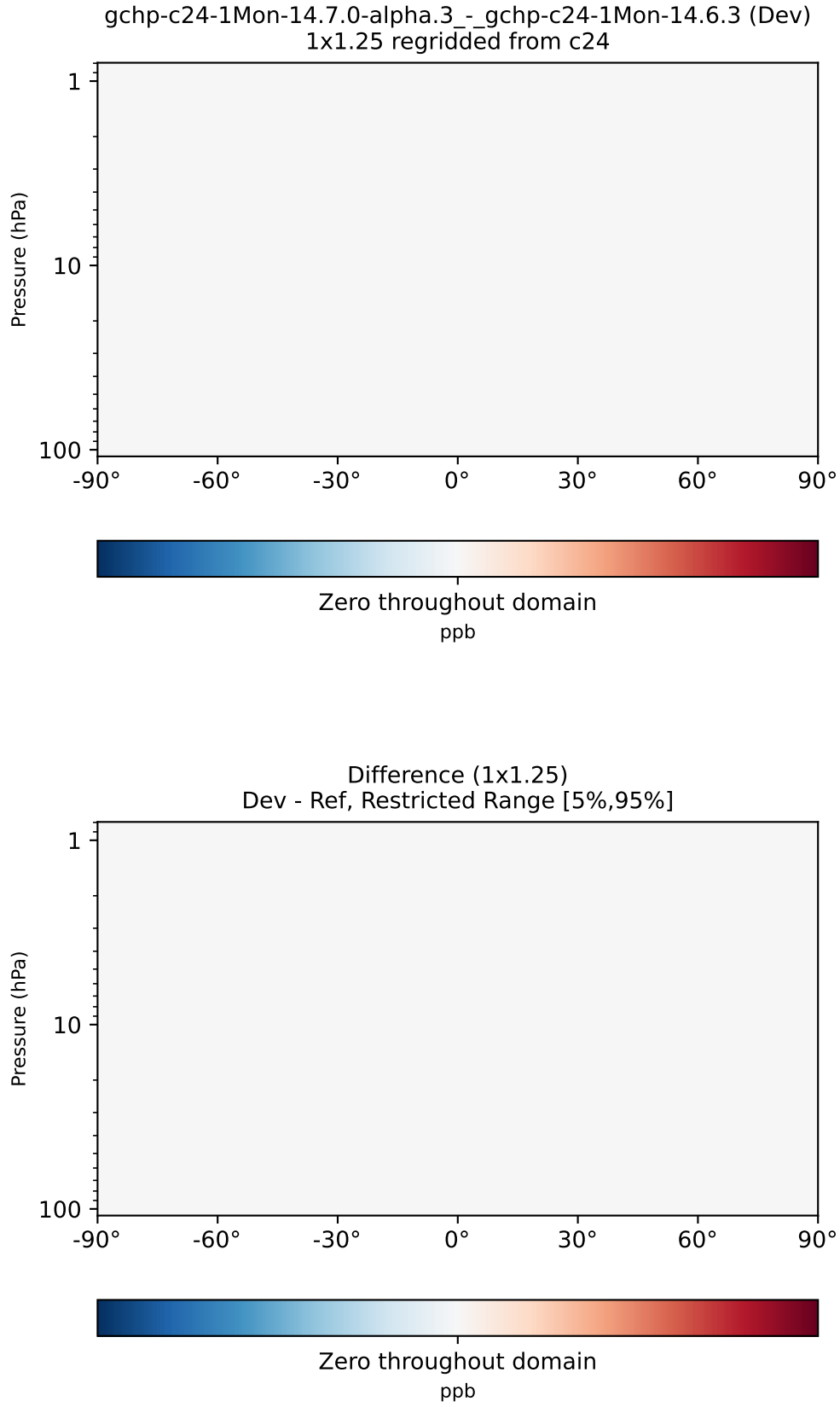


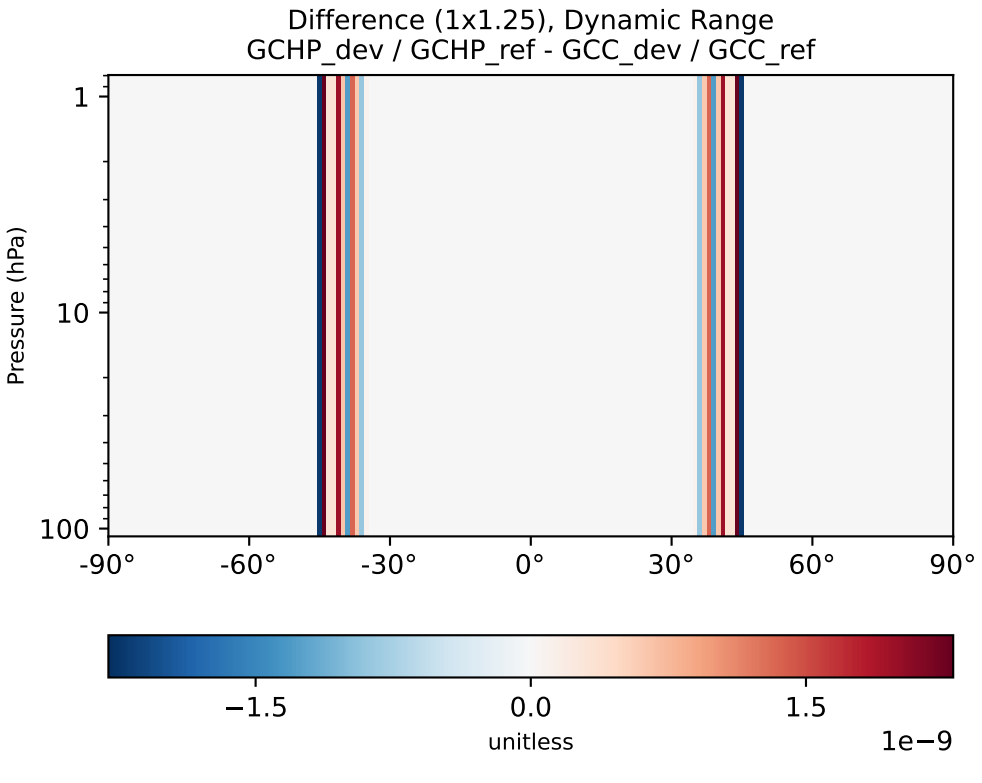


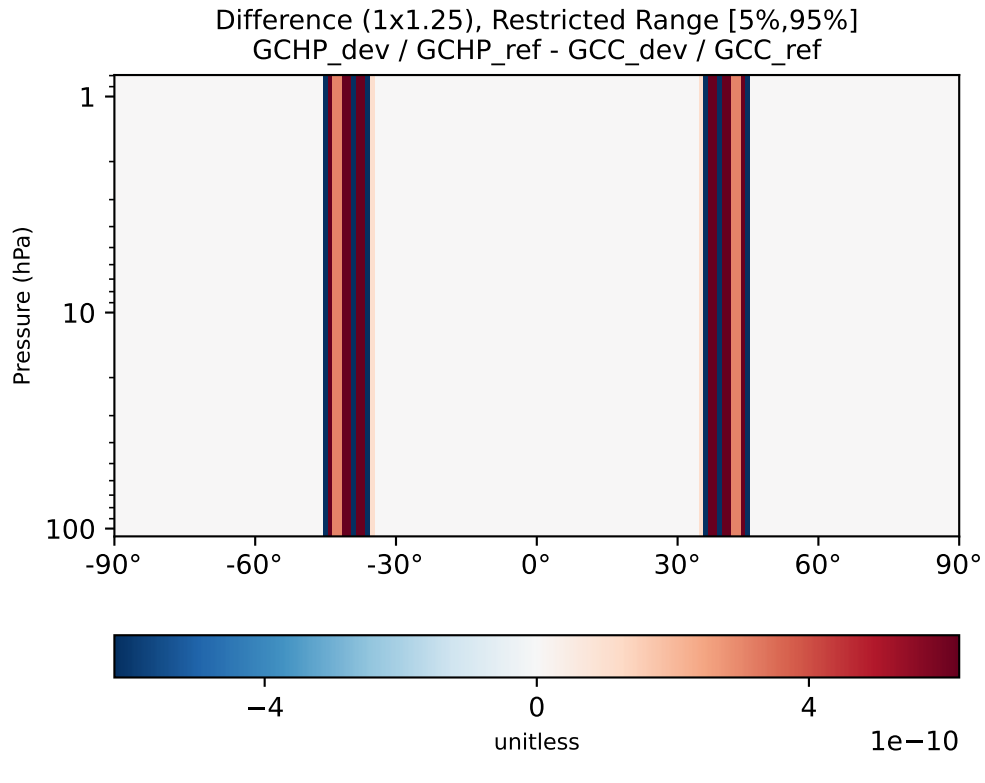


SpeciesConcVV_BrSALC, Zonal Mean



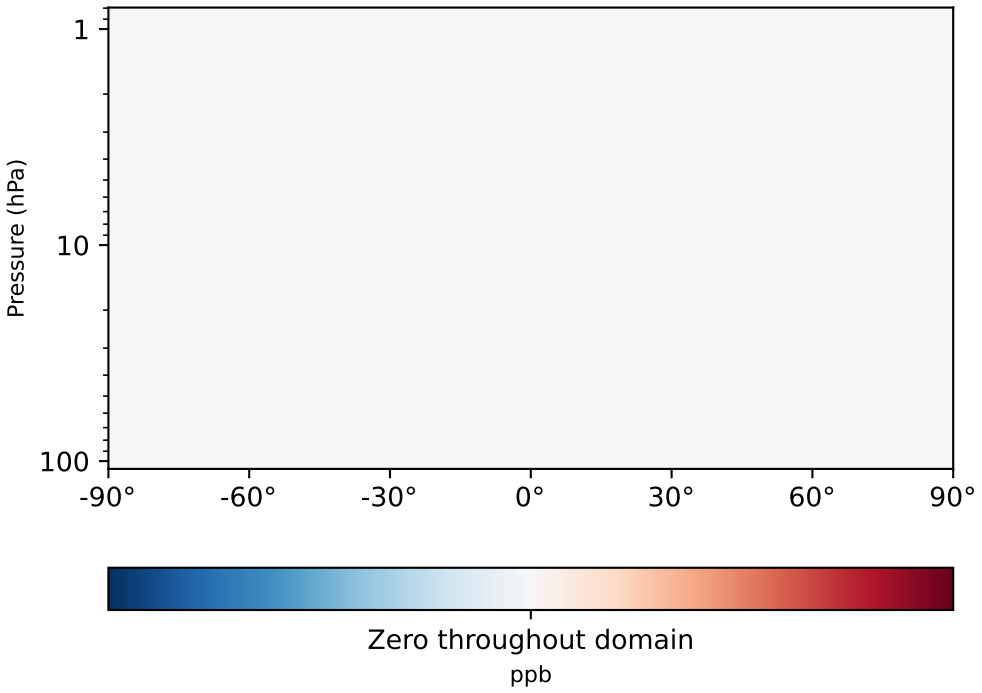




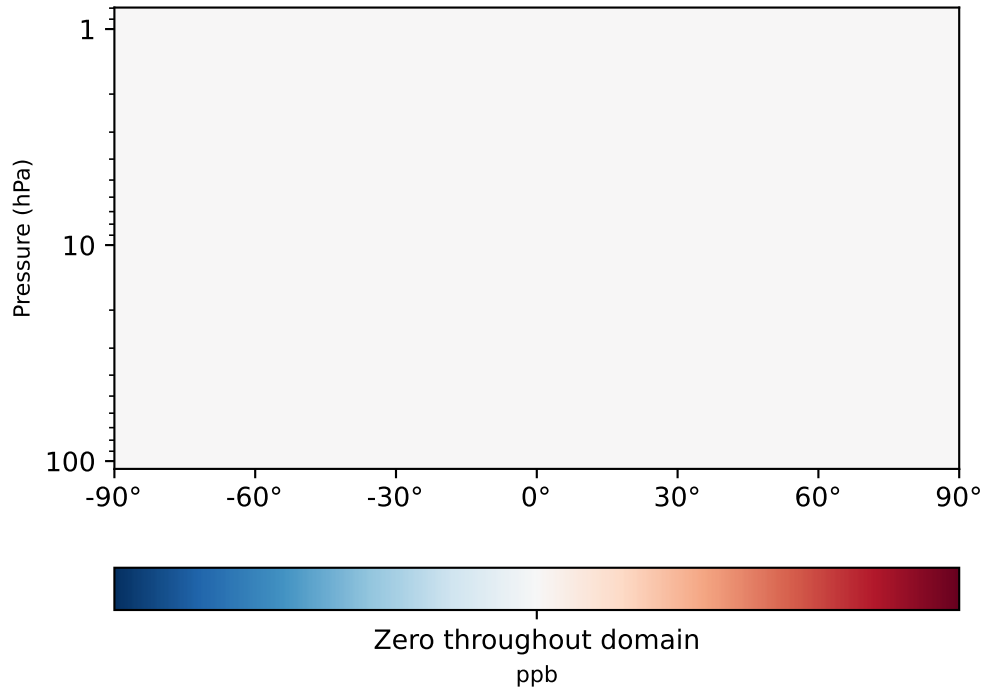


SpeciesConcVV_ISALA, Zonal Mean

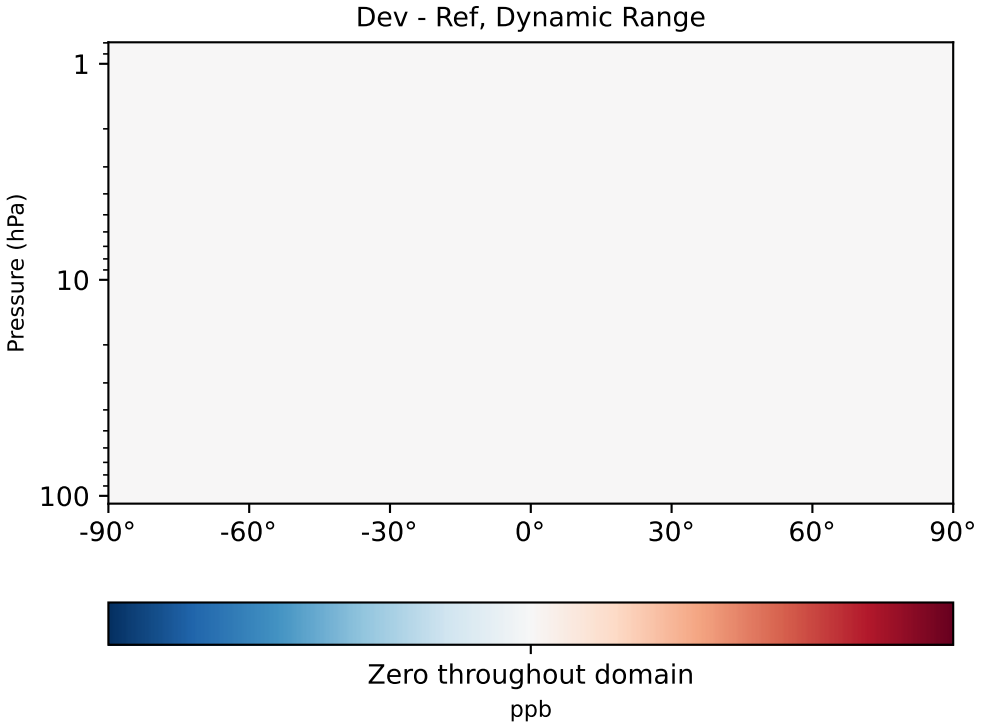
gcc-4x5-1Mon-14.7.0-alpha.3_-_gcc-4x5-1Mon-14.6.3 (Ref)
4.0x5.0



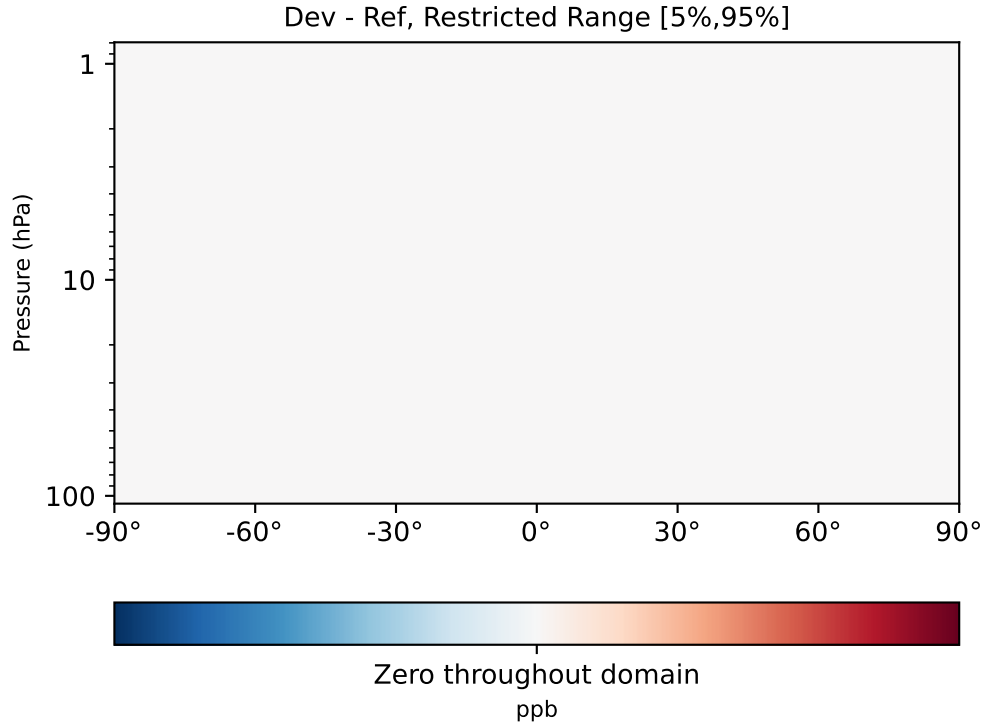
gchp-c24-1Mon-14.7.0-alpha.3_-_gchp-c24-1Mon-14.6.3 (Dev)
1x1.25 regridded from c24



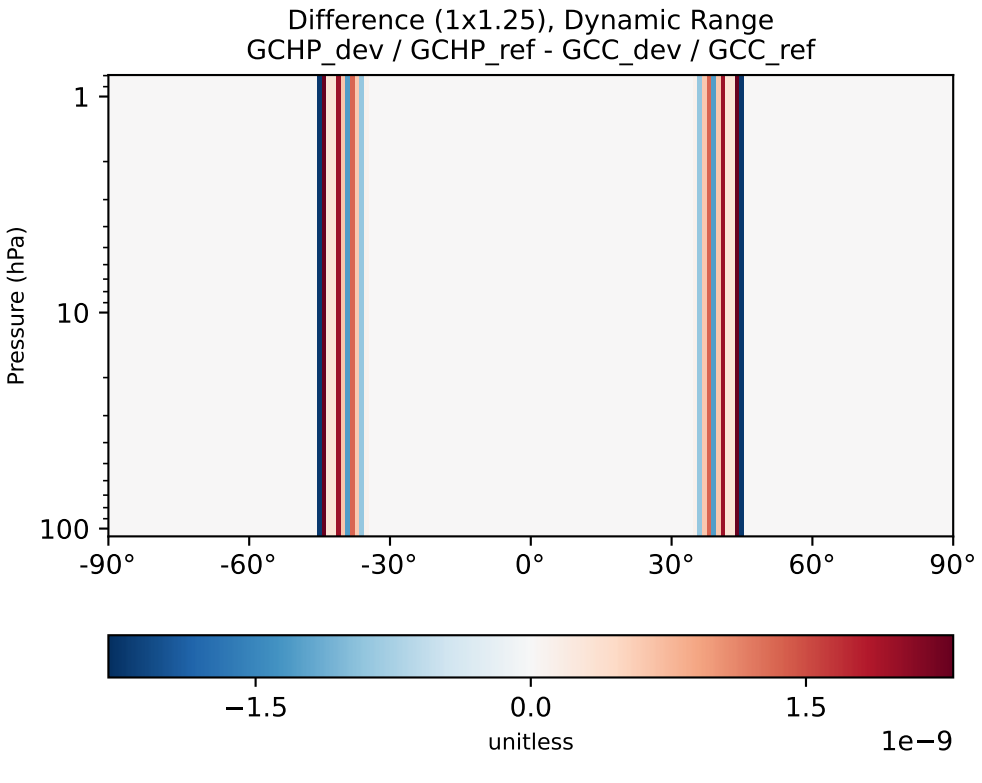
Difference (1x1.25)
Dev - Ref, Dynamic Range



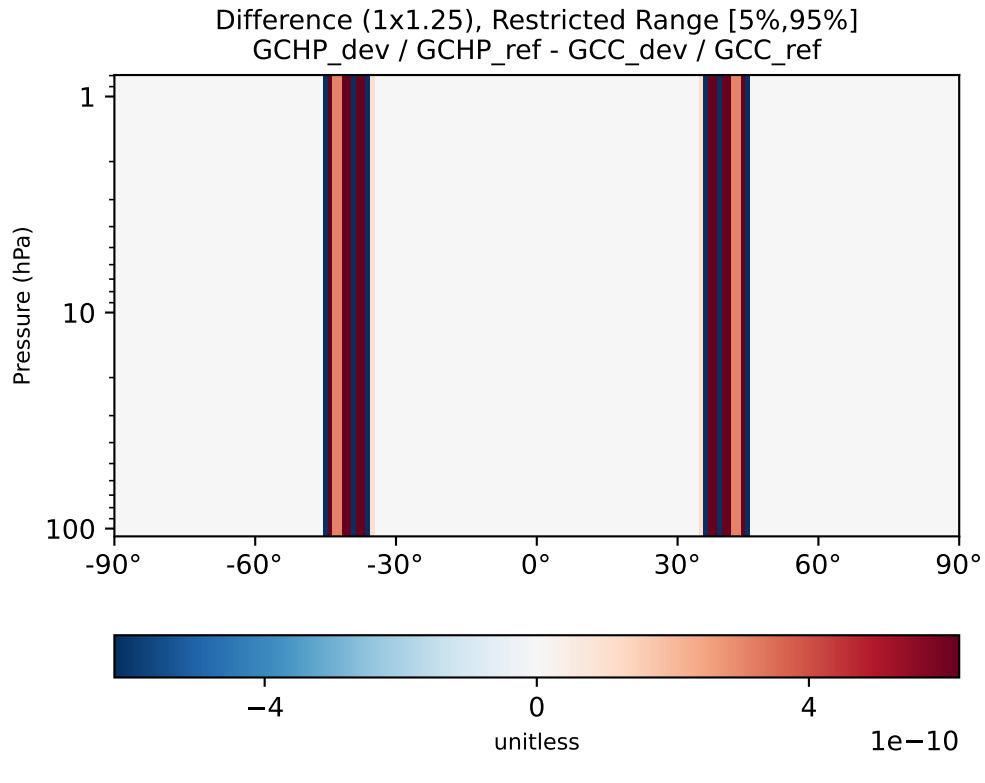
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



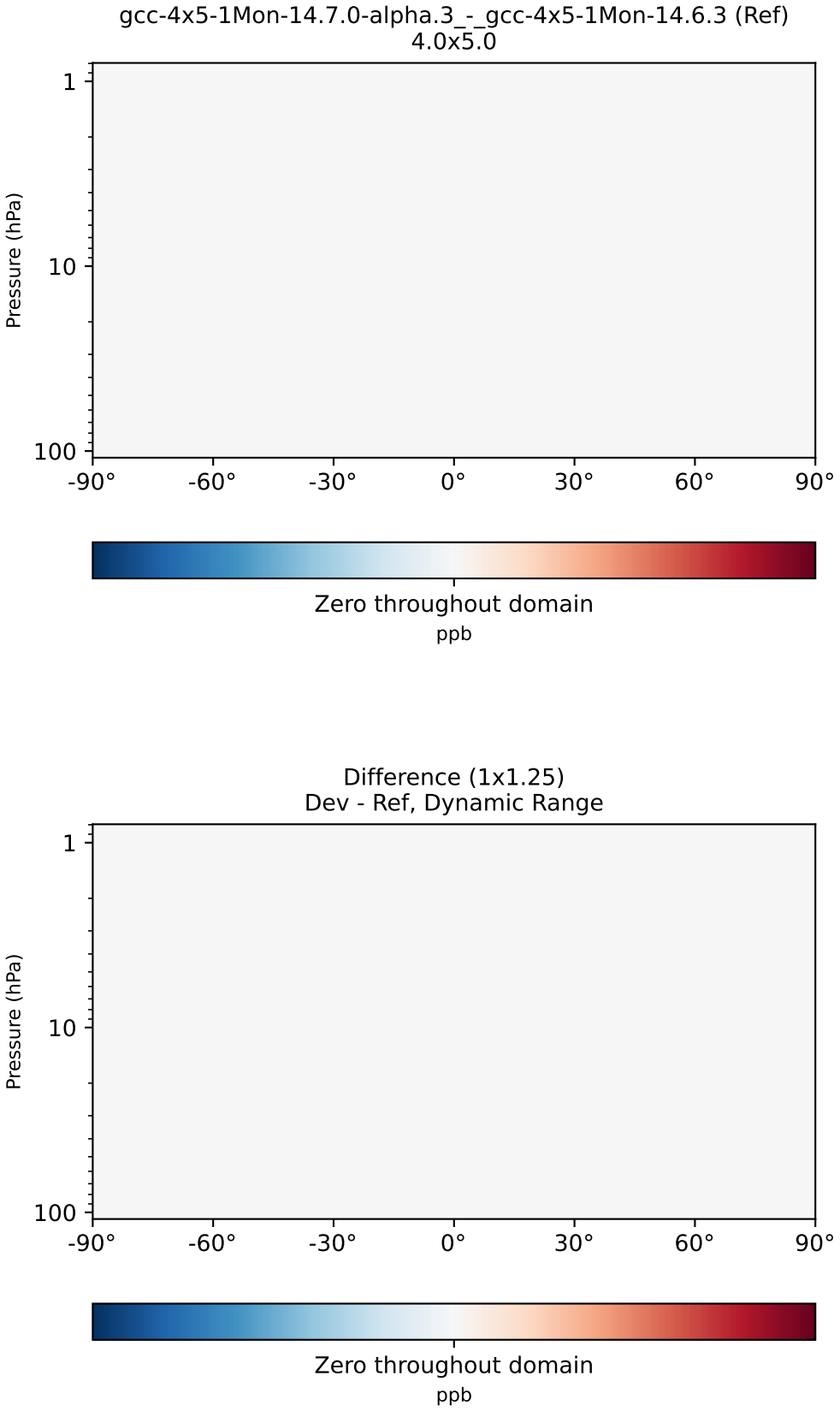
Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

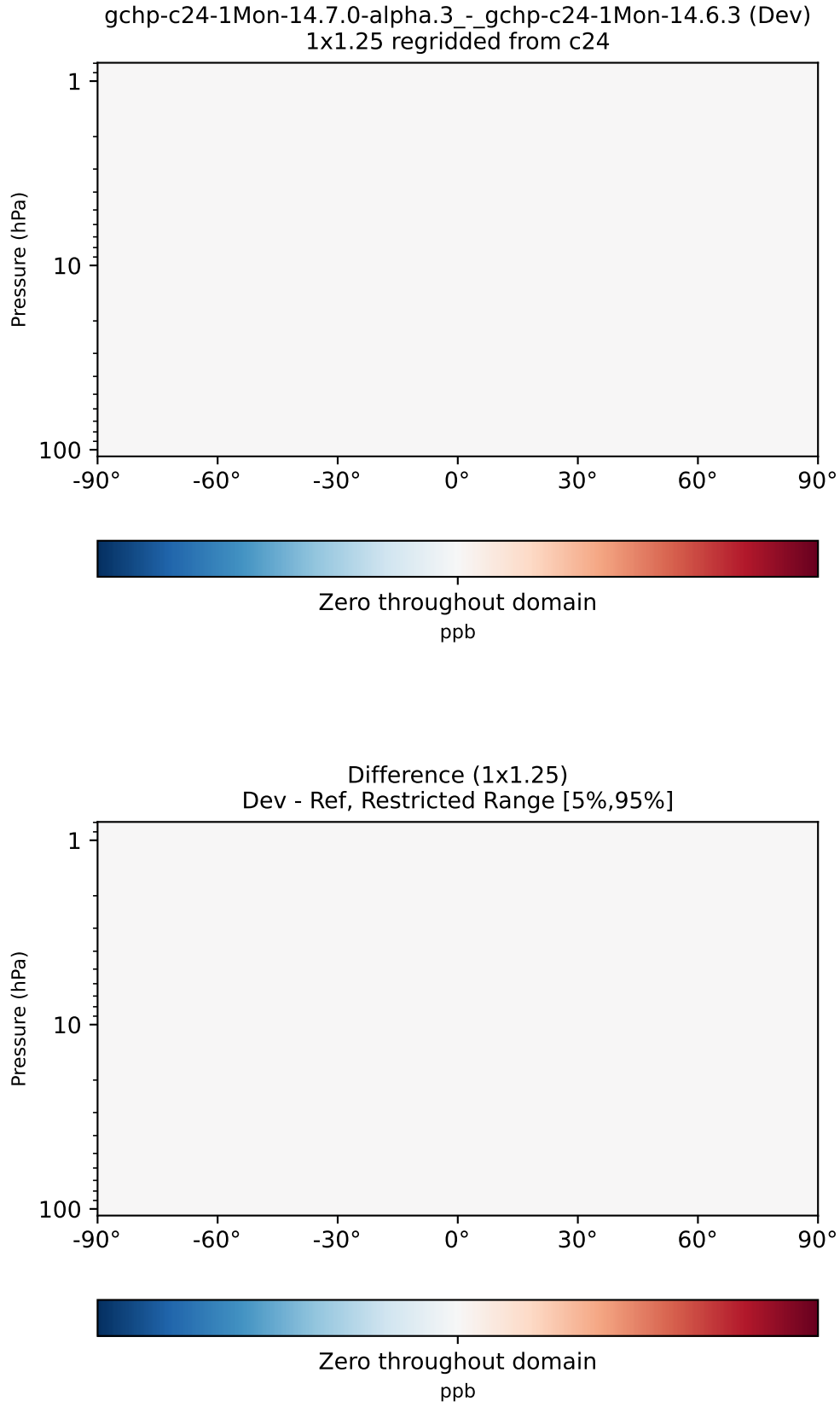


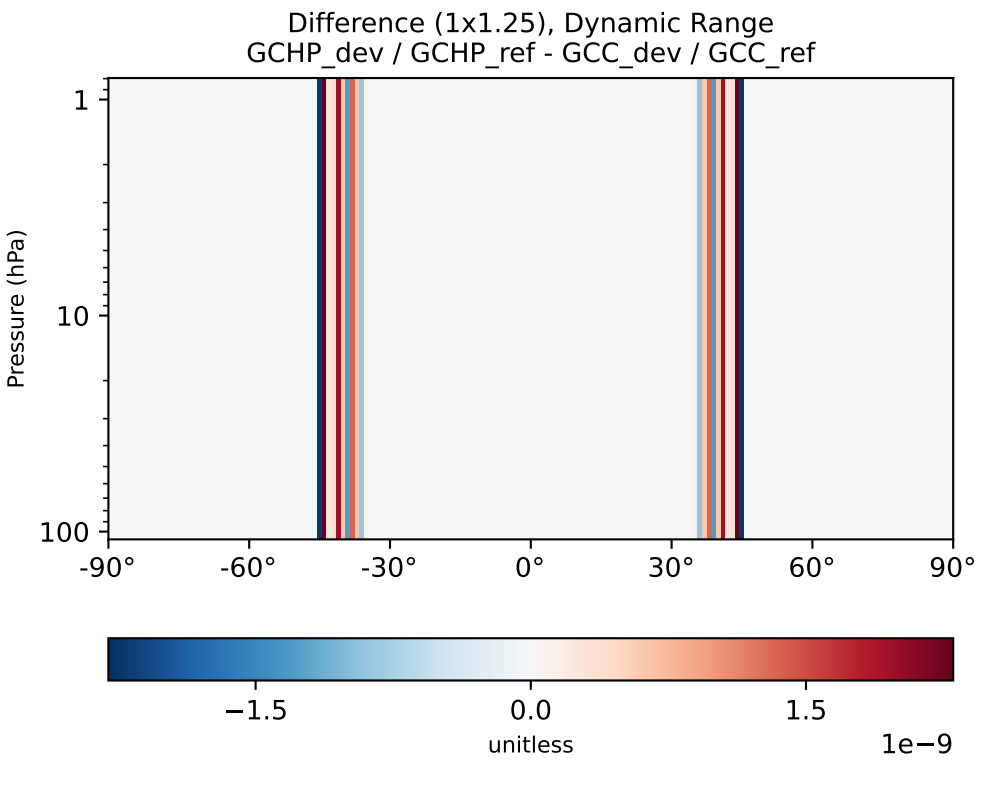
Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

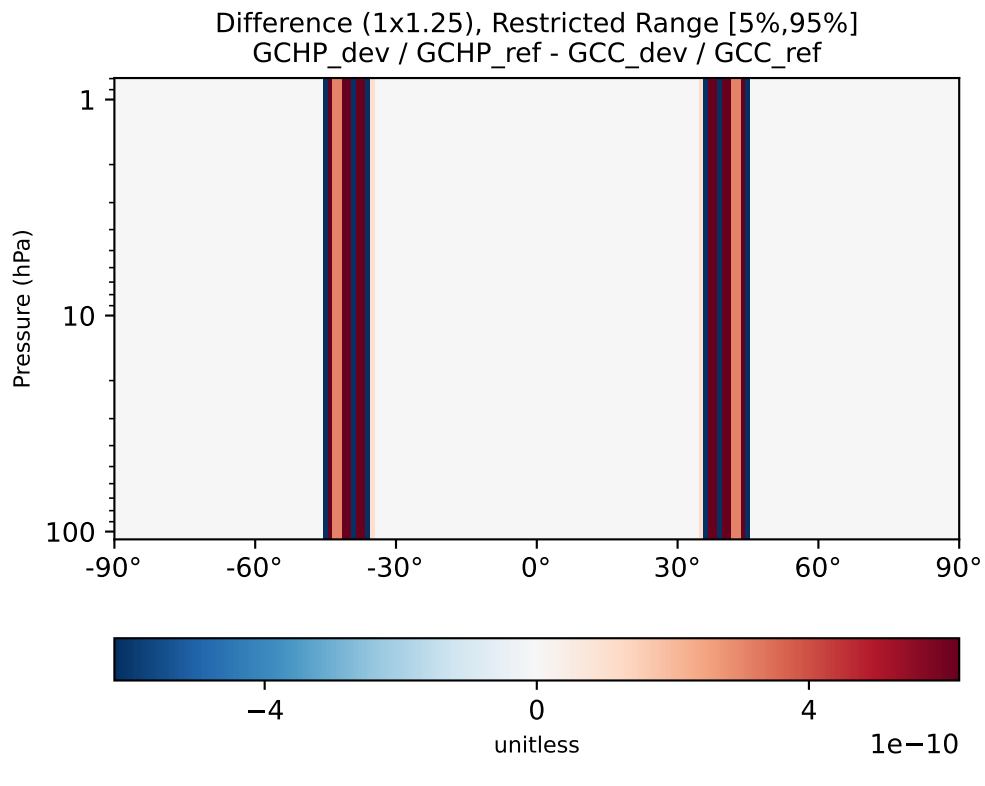


SpeciesConcVV_ISALC, Zonal Mean









SpeciesConcVV_NITs, Zonal Mean

gcc-4x5-1Mon-14.7.0-alpha.3_-_gcc-4x5-1Mon-14.6.3 (Ref)
4.0x5.0

gchp-c24-1Mon-14.7.0-alpha.3_-_gchp-c24-1Mon-14.6.3 (Dev)
1x1.25 regridded from c24

Pressure (hPa)
1
10
100
-90° -60° -30° 0° 30° 60° 90°

Zero throughout domain
ppb

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

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

Zero throughout domain
ppb

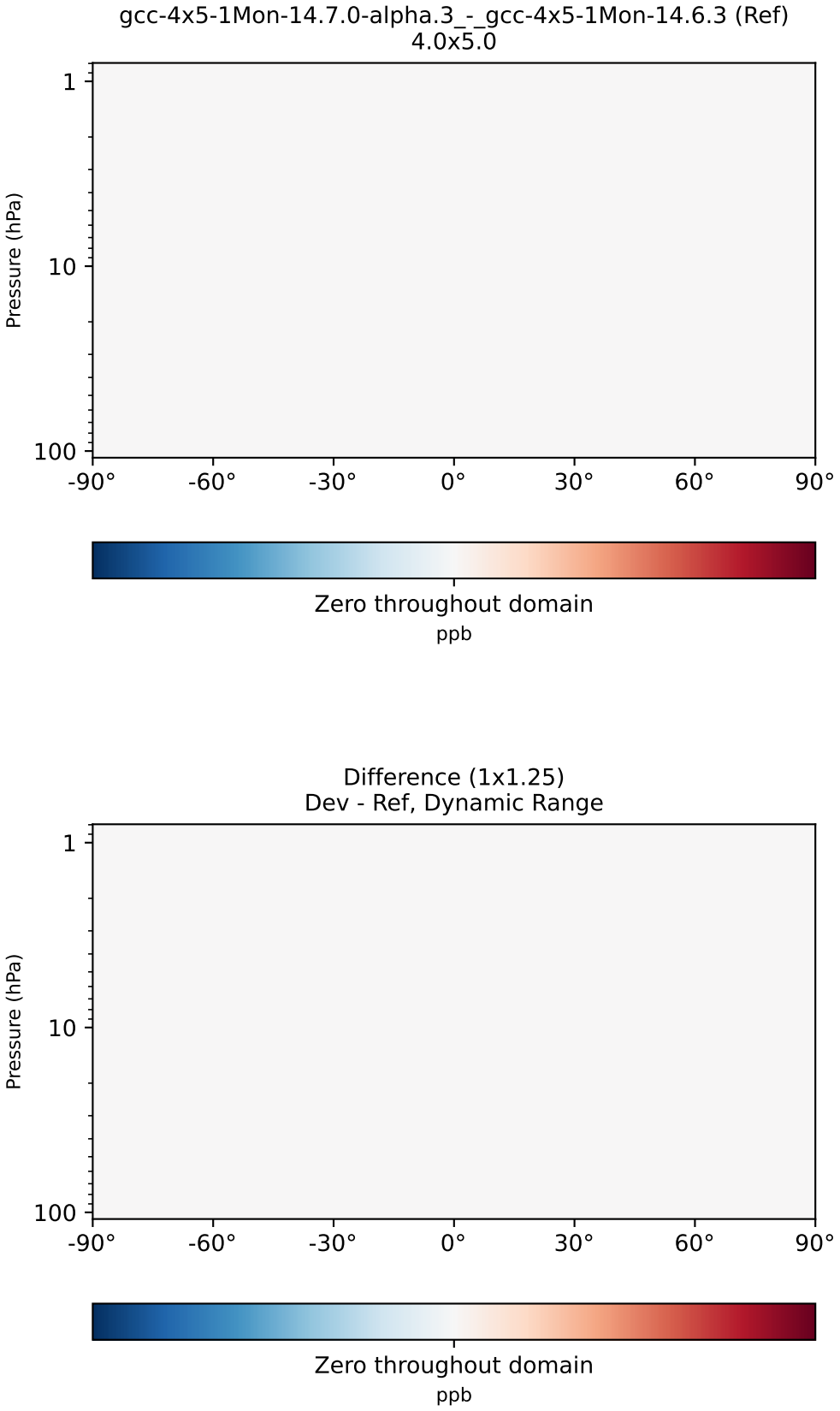
Difference (1x1.25), Dynamic Range
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

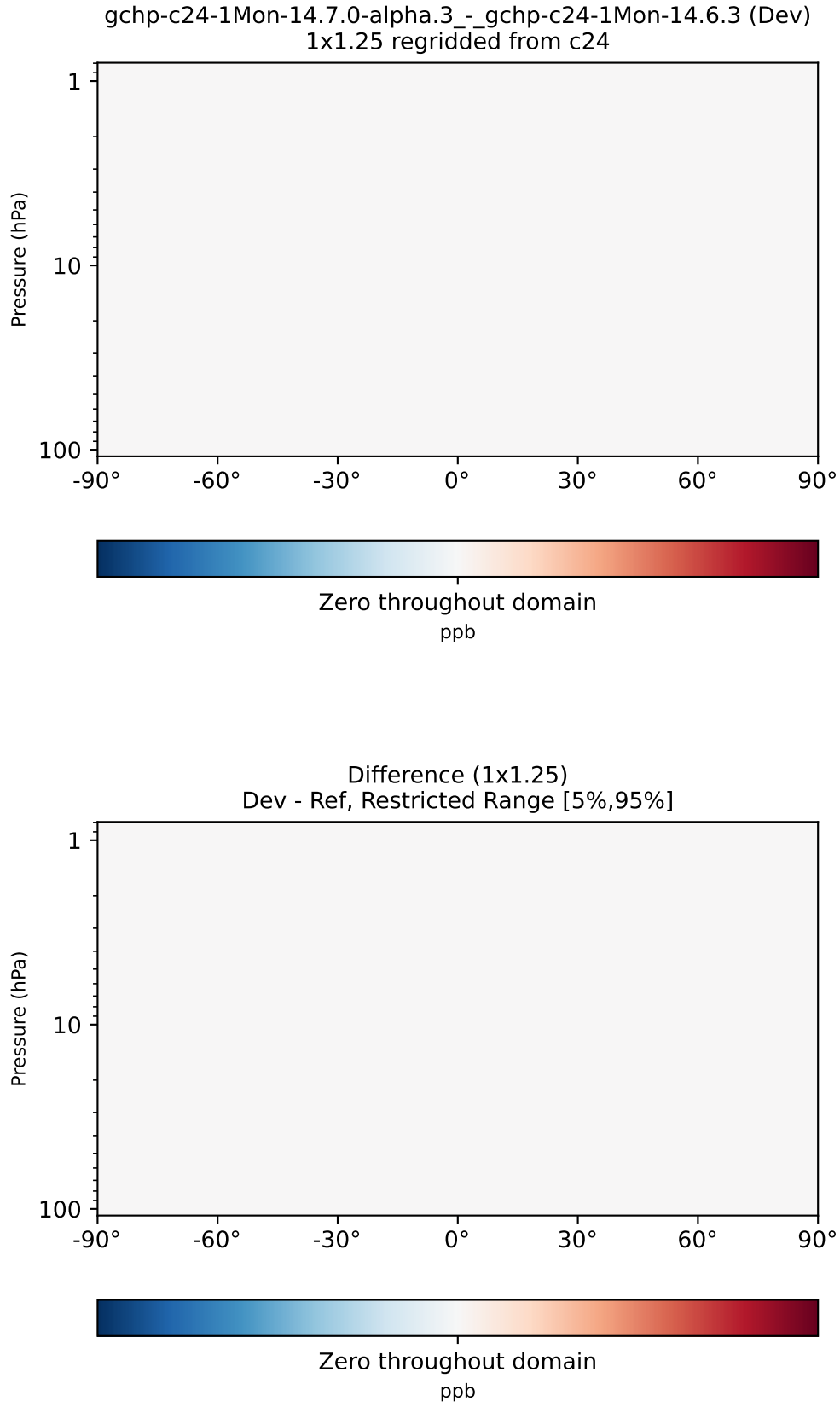
Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

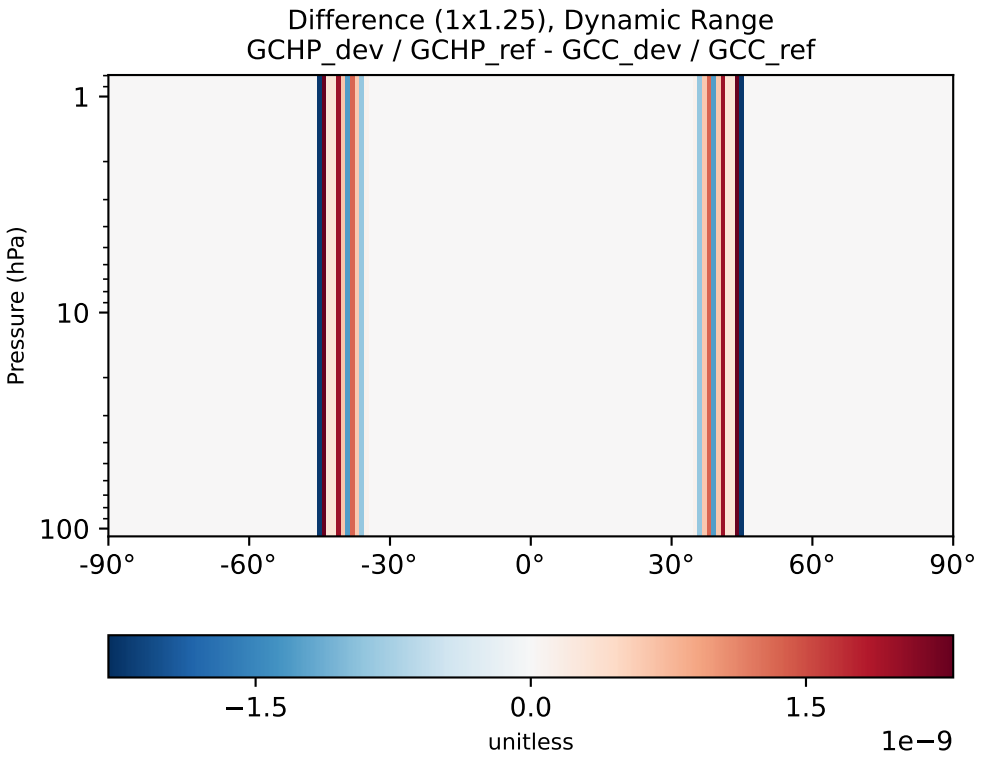
−1.5 0.0 1.5
unitless
1e−9

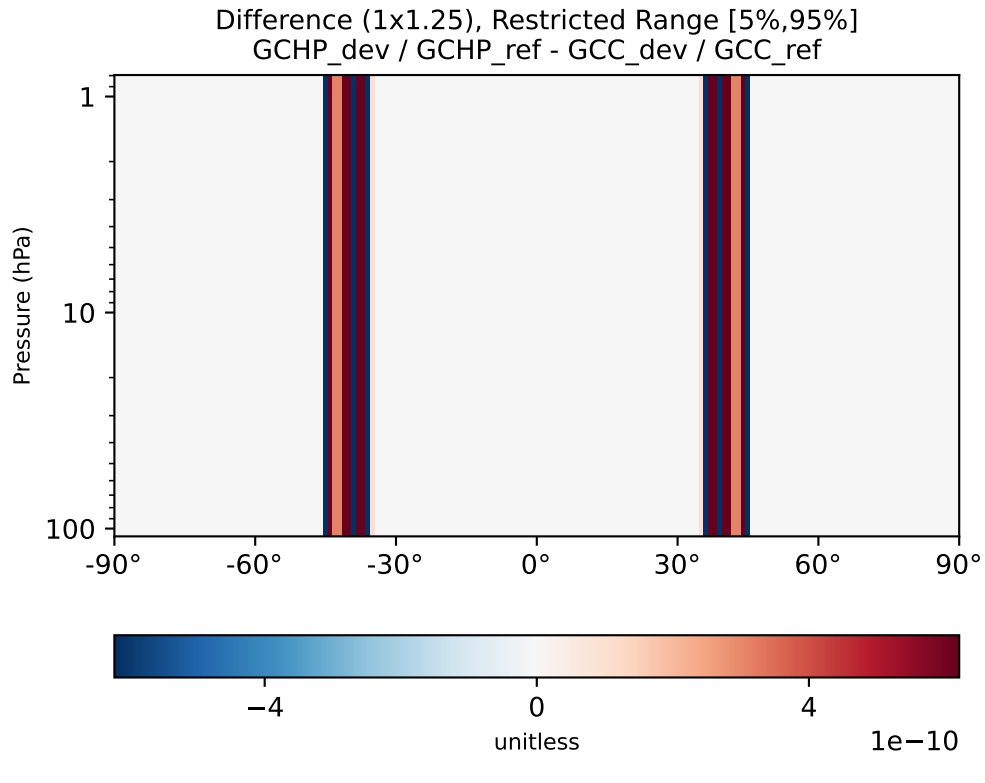
−4 0 4
unitless
1e−10

SpeciesConcVV_SALA, Zonal Mean

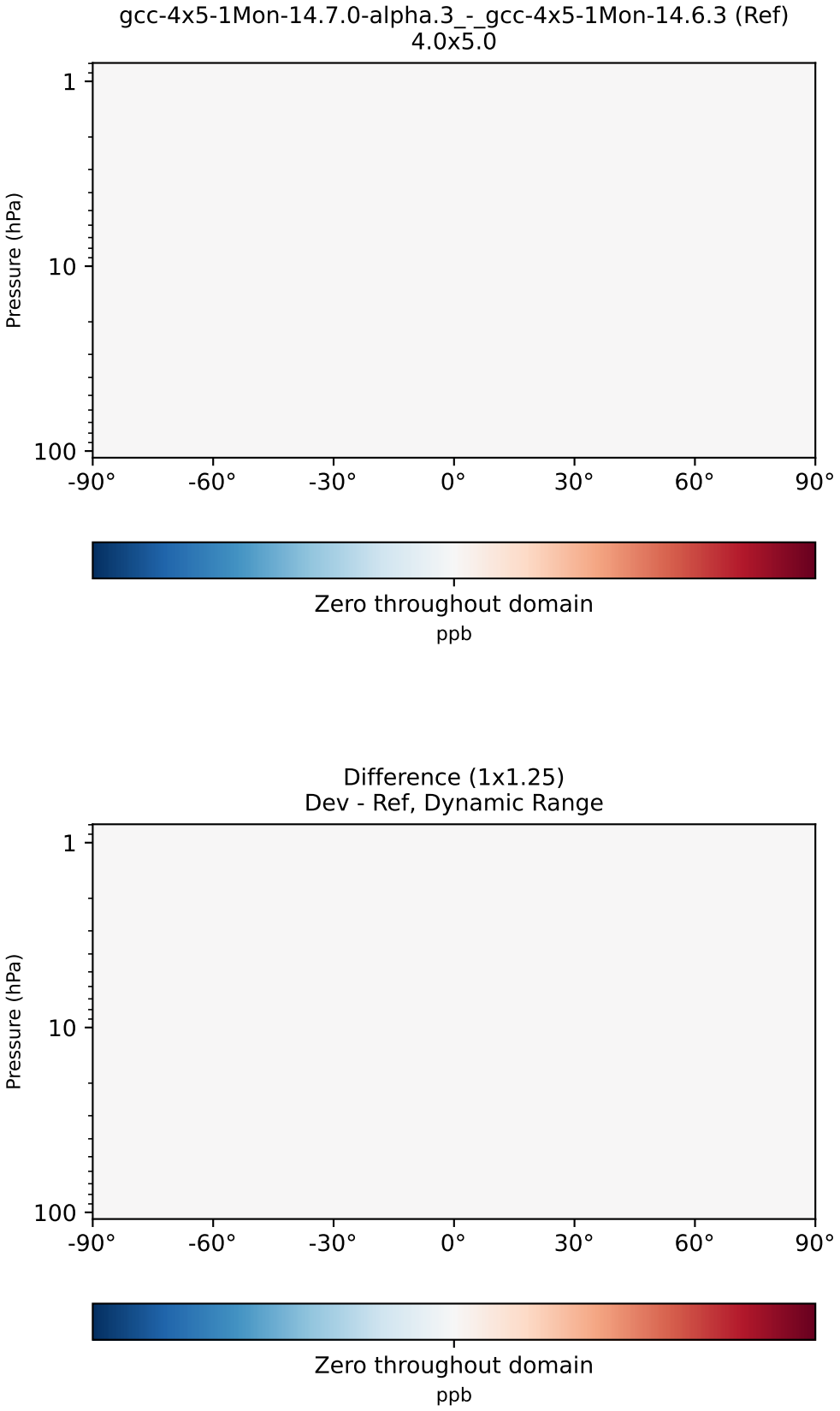


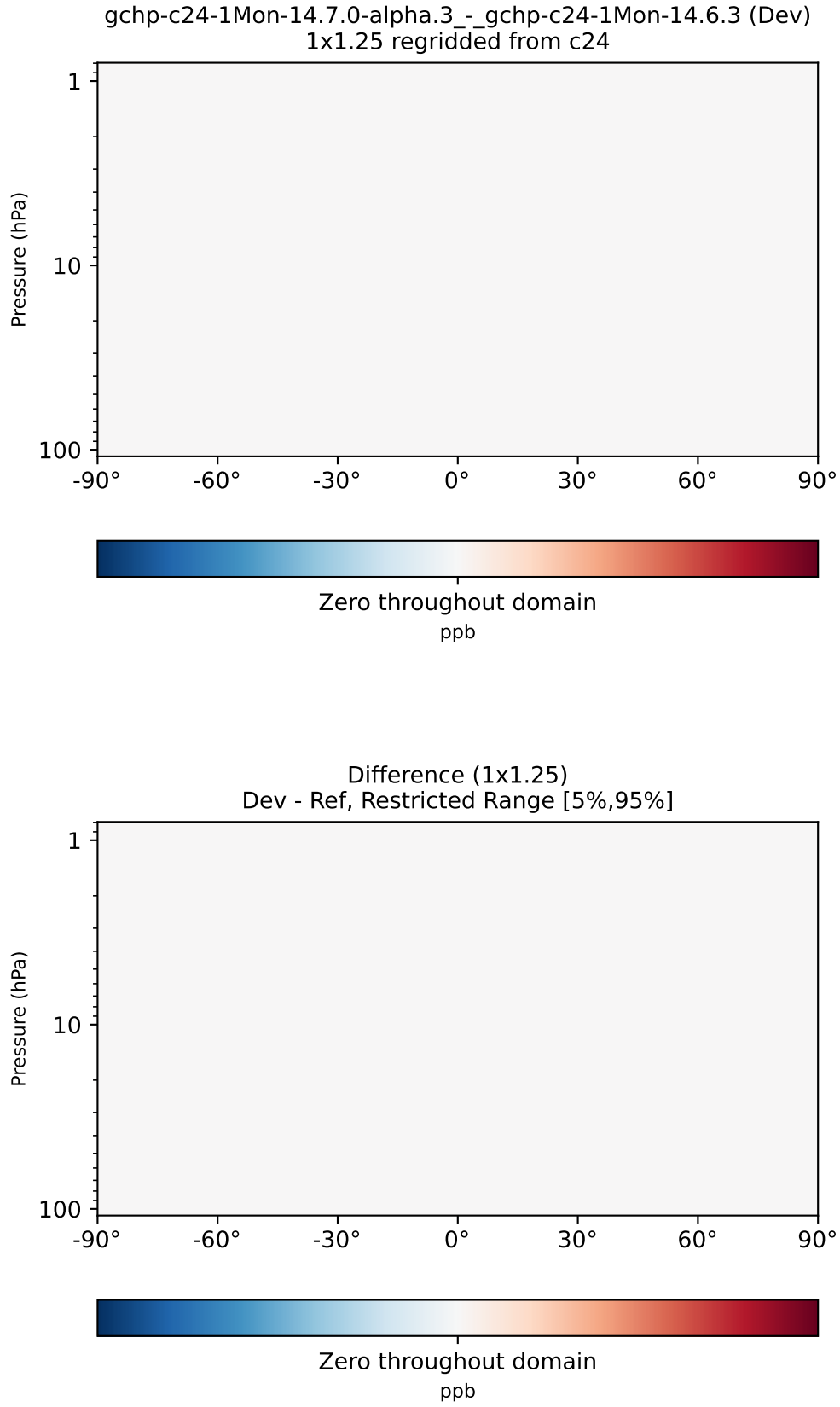


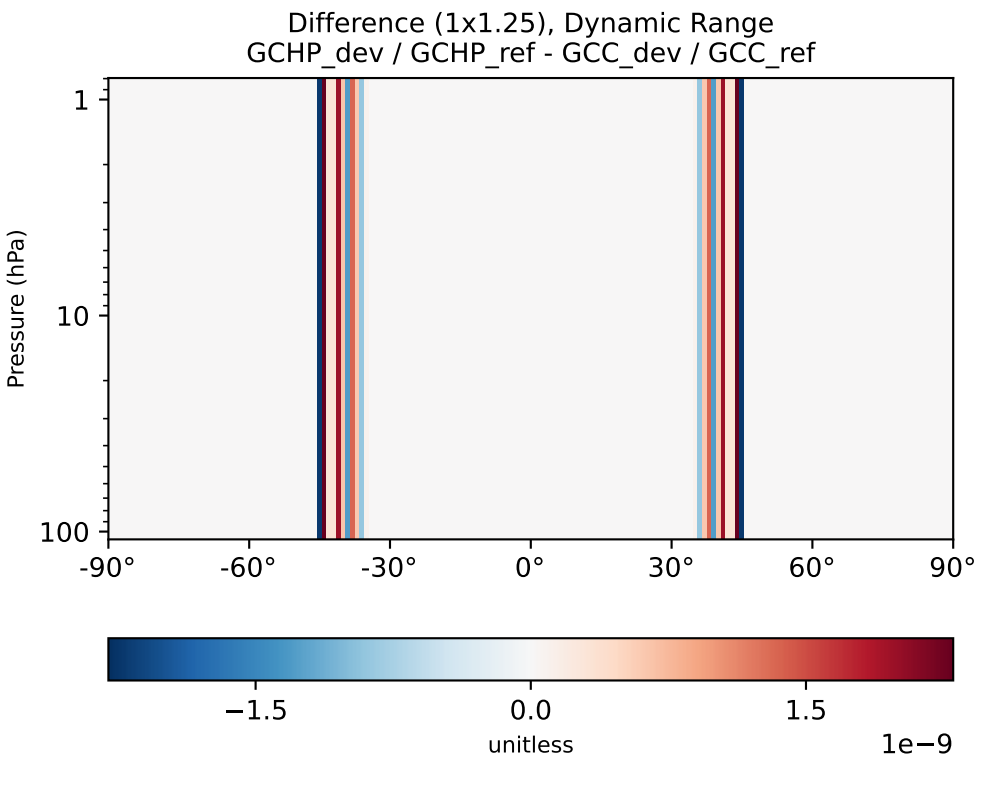


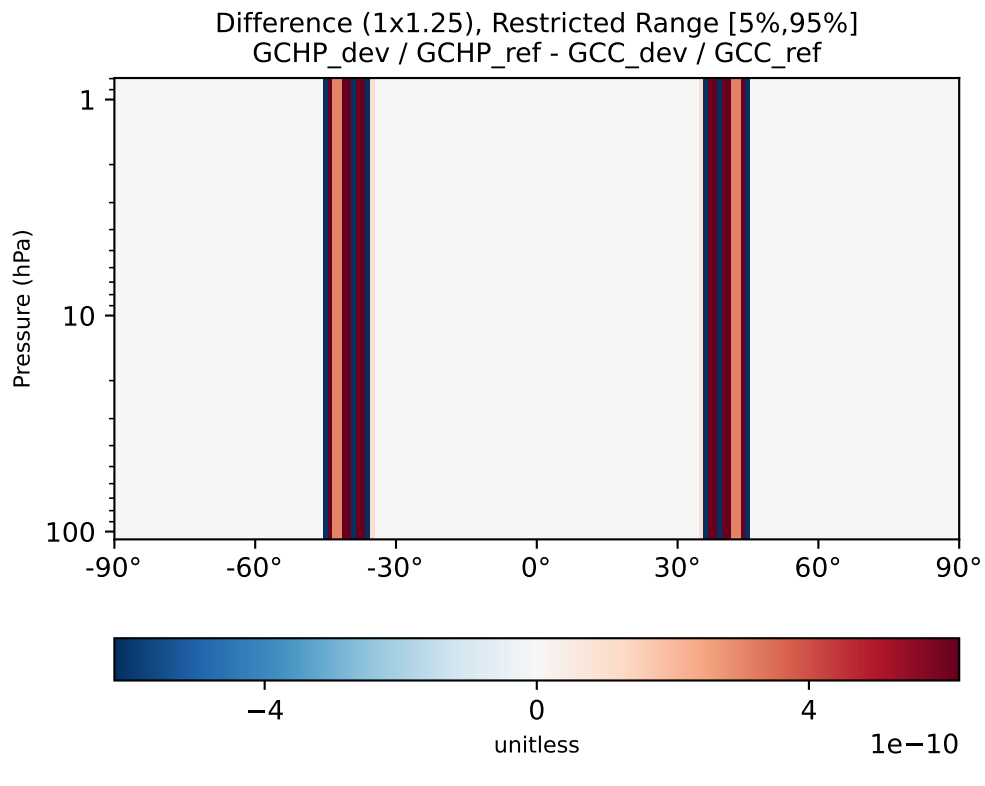


SpeciesConcVV_SALAAL, Zonal Mean

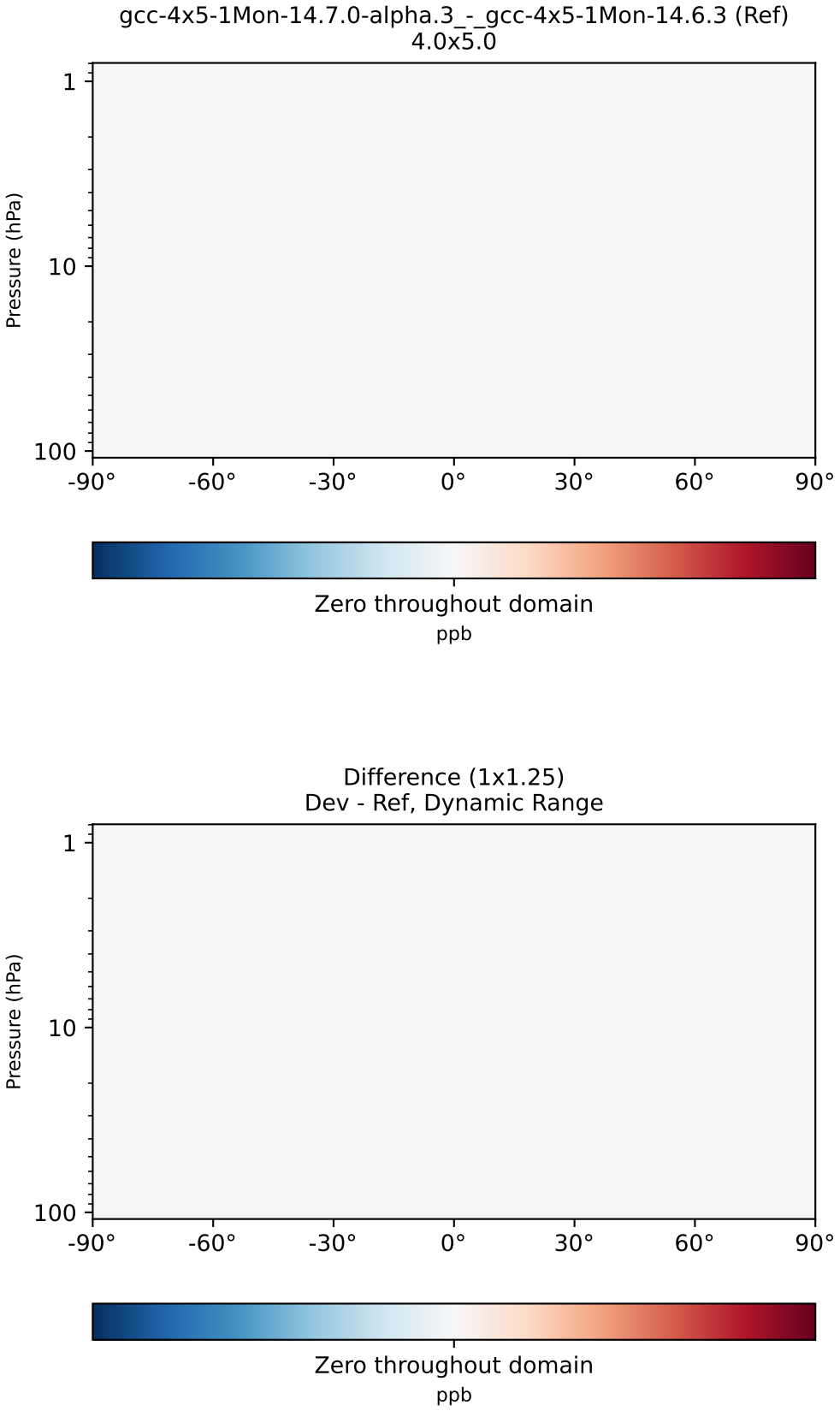


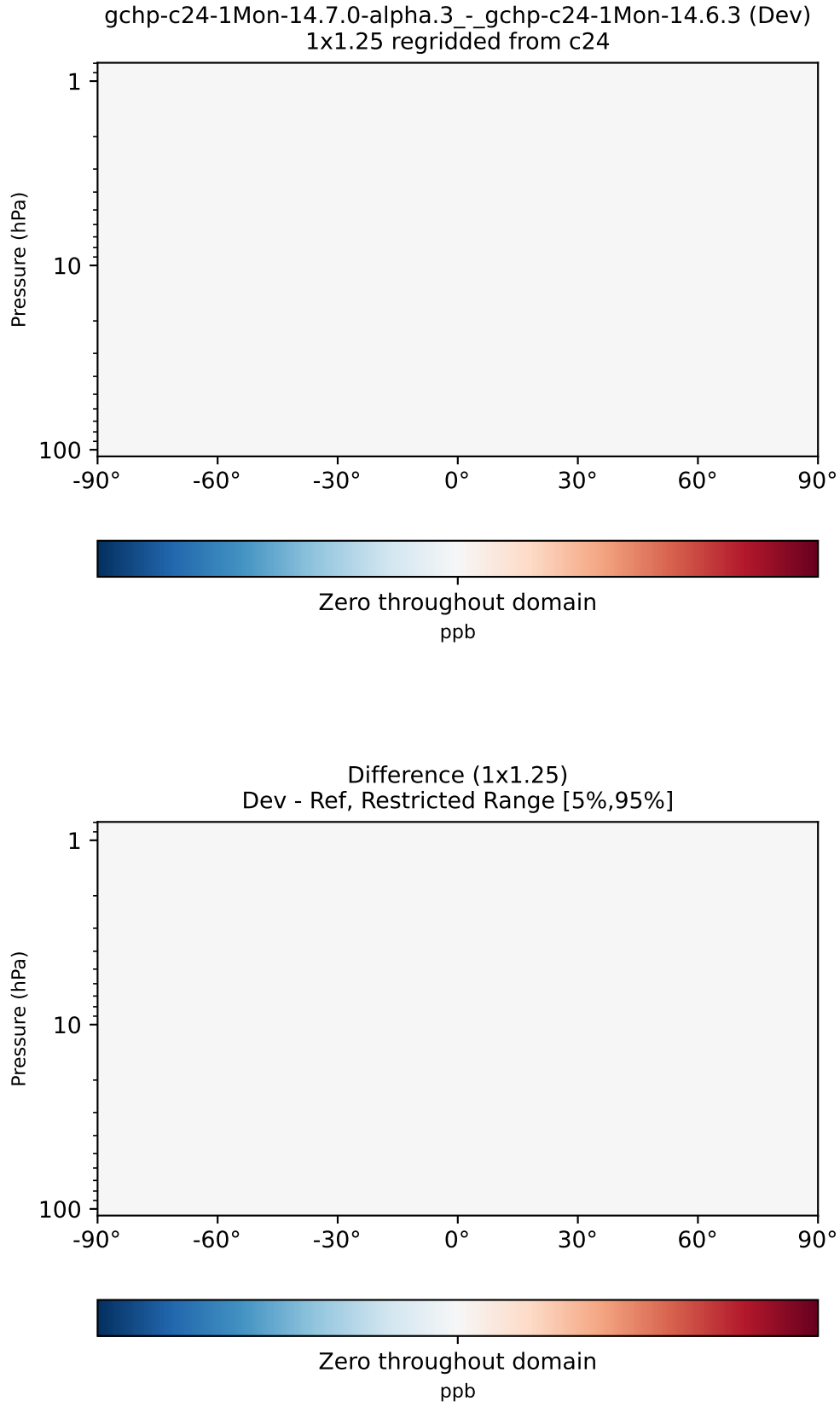


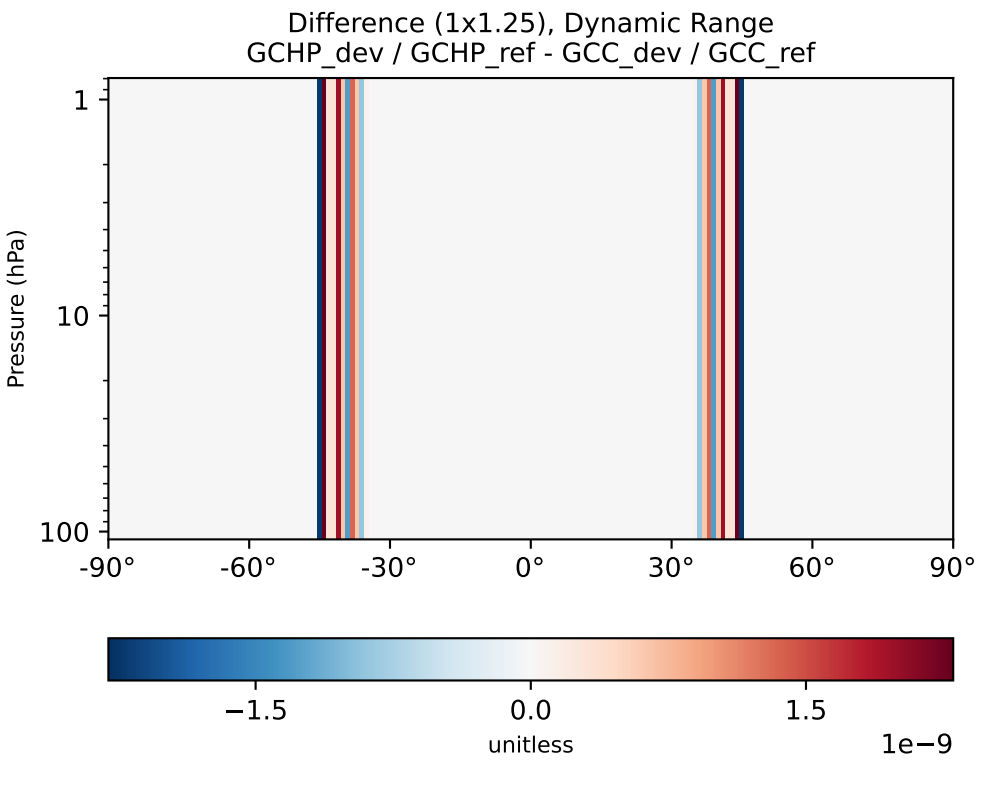


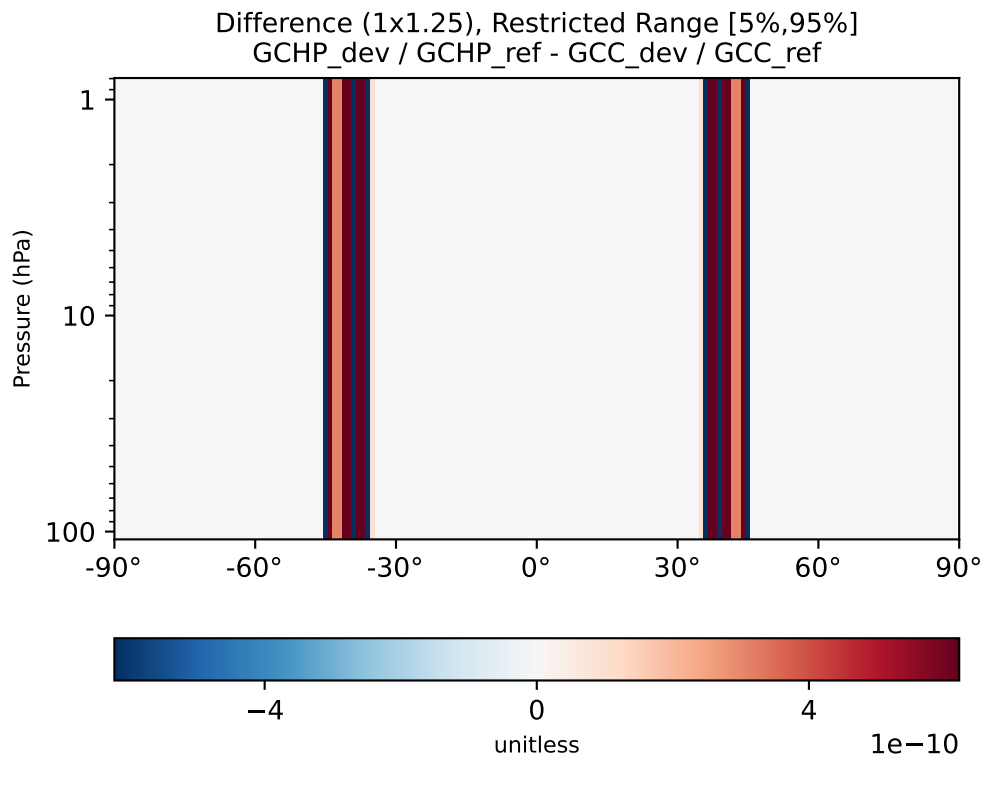


SpeciesConcVV_SALACL, Zonal Mean

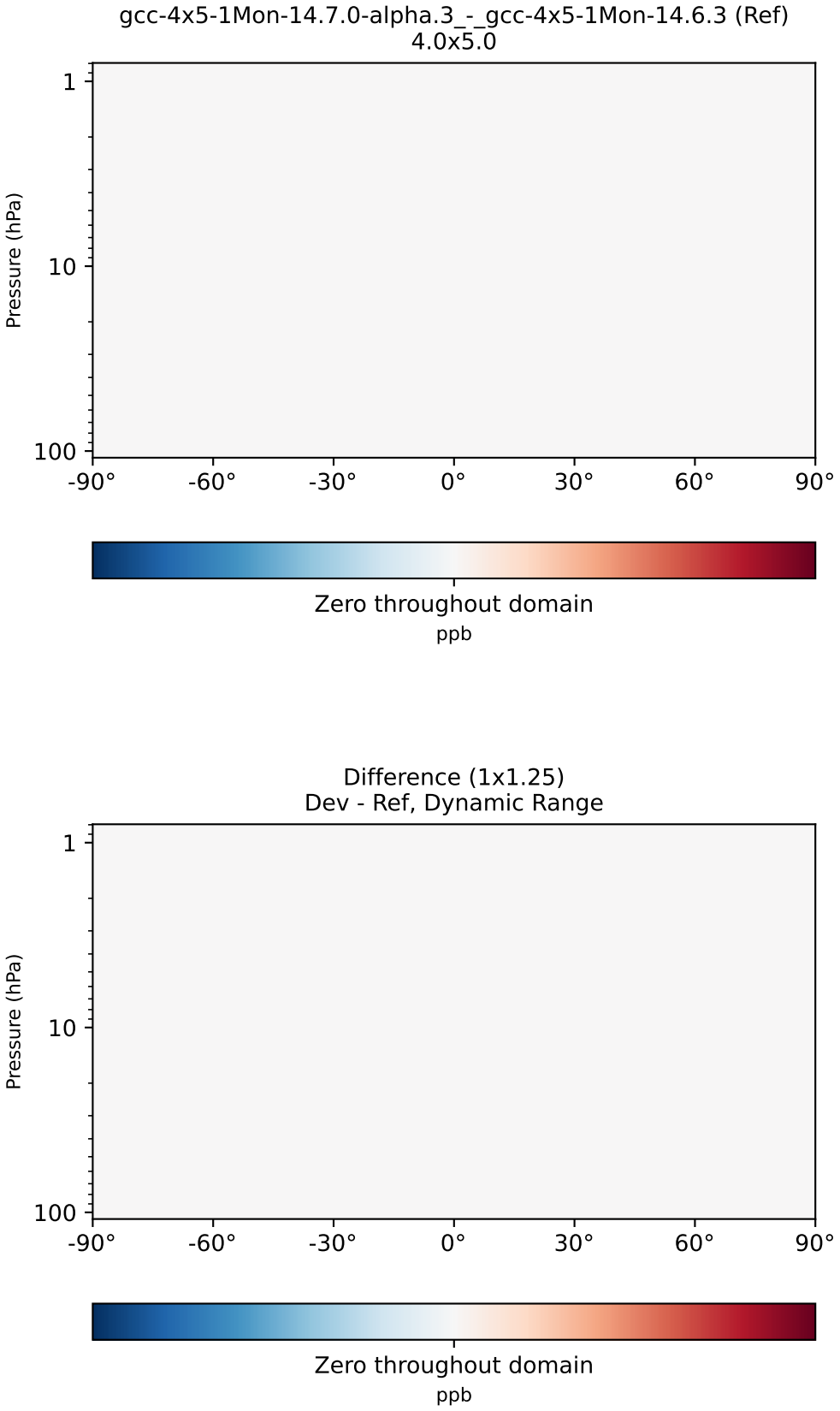


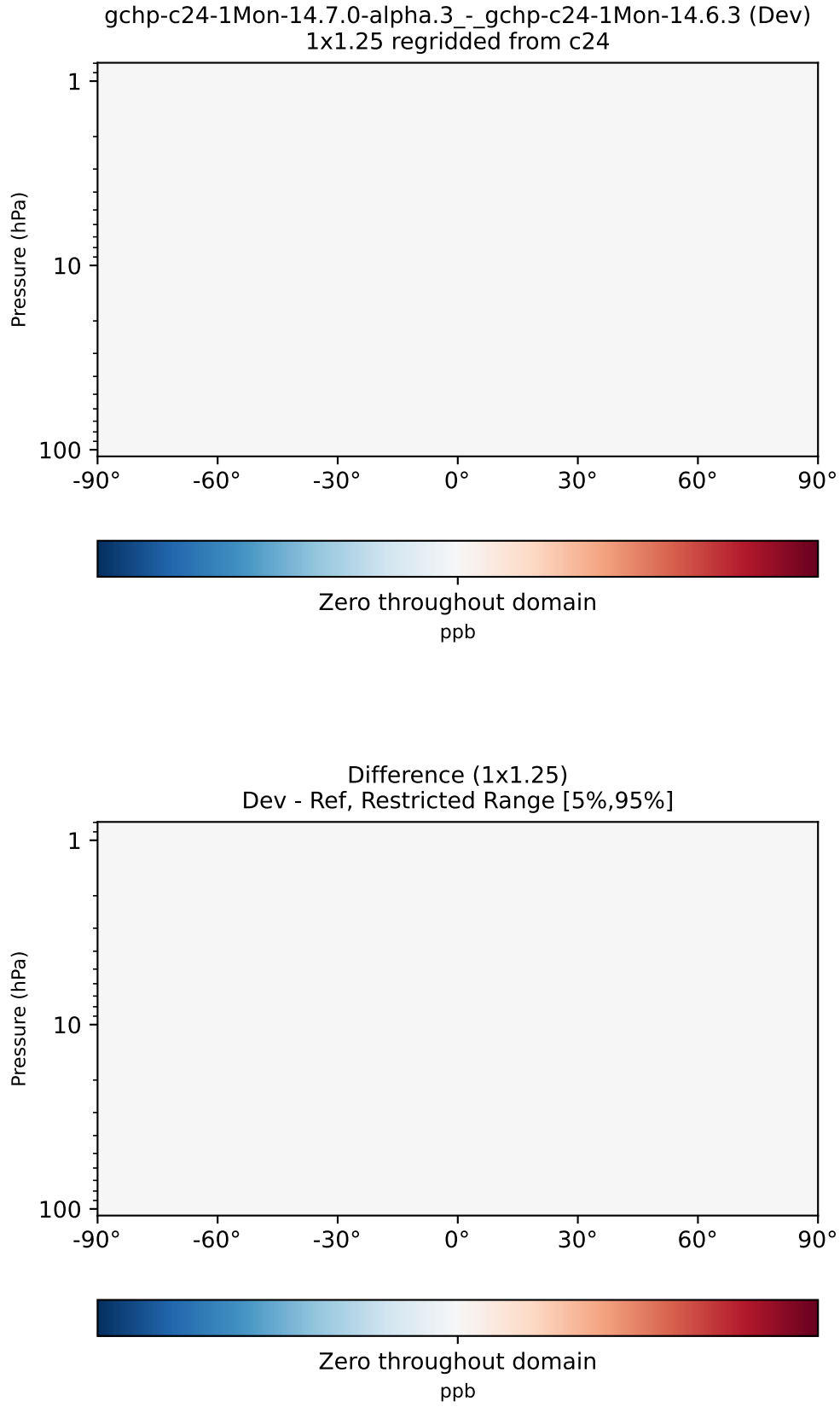


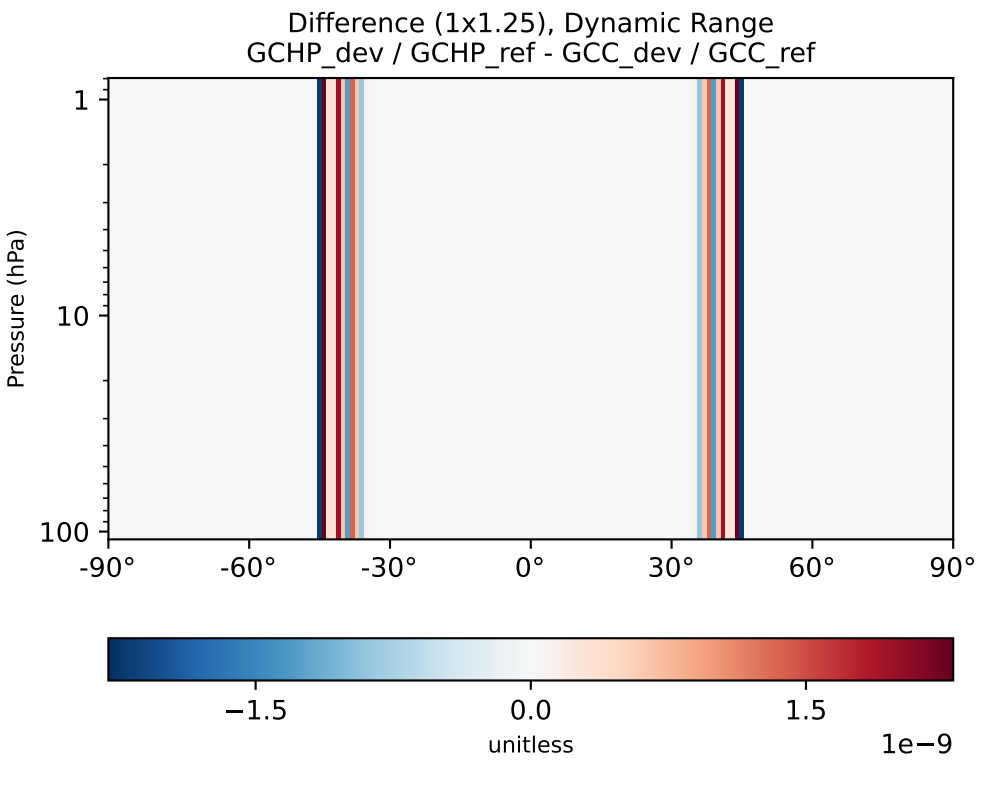


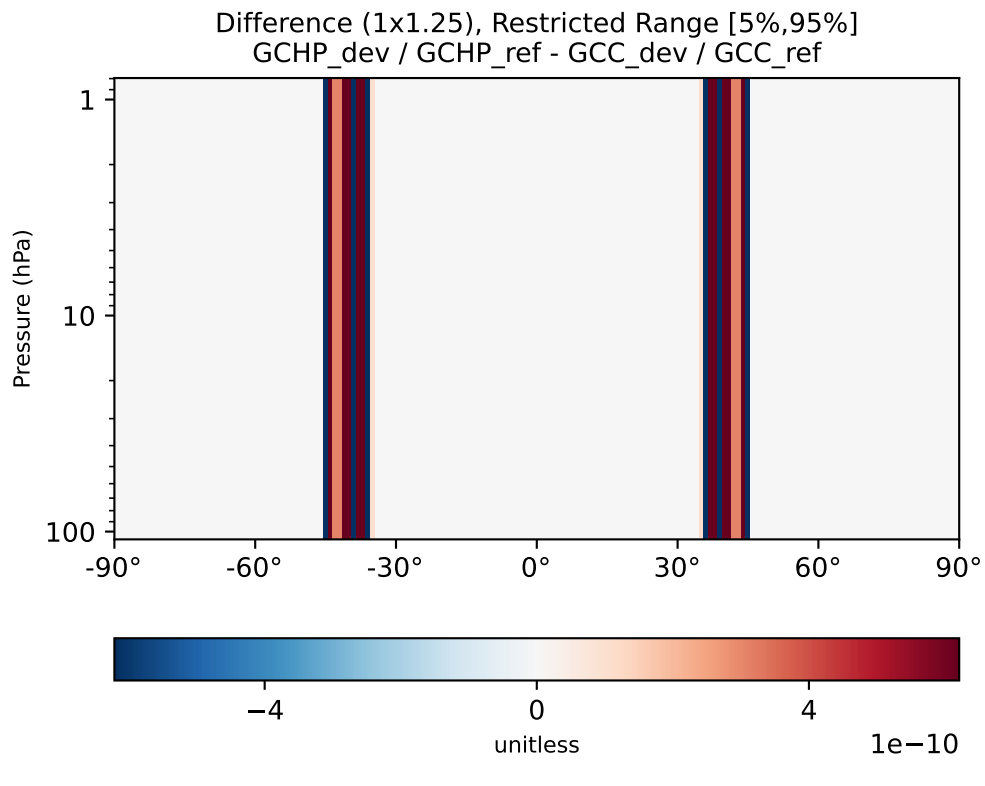


SpeciesConcVV_SALC, Zonal Mean

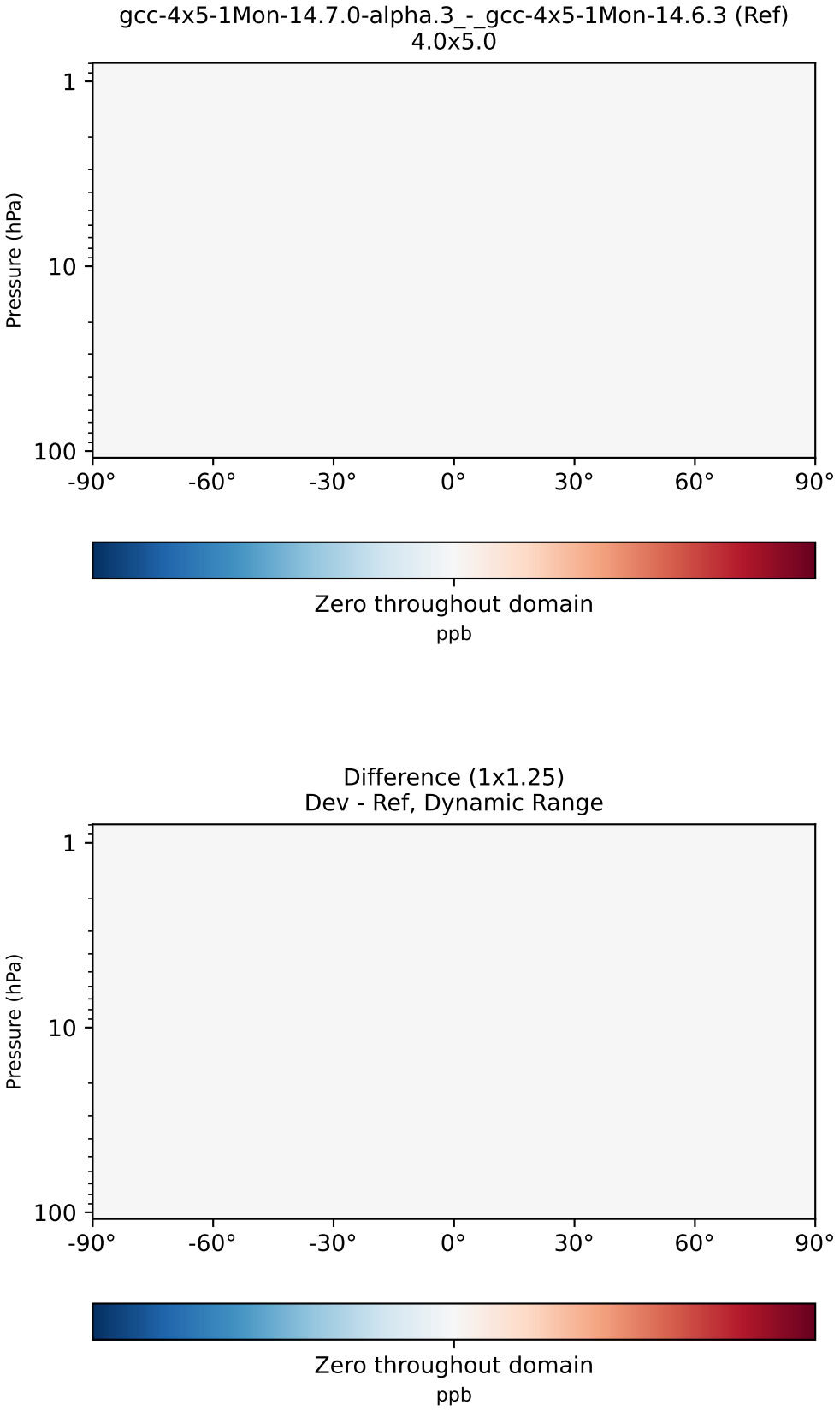


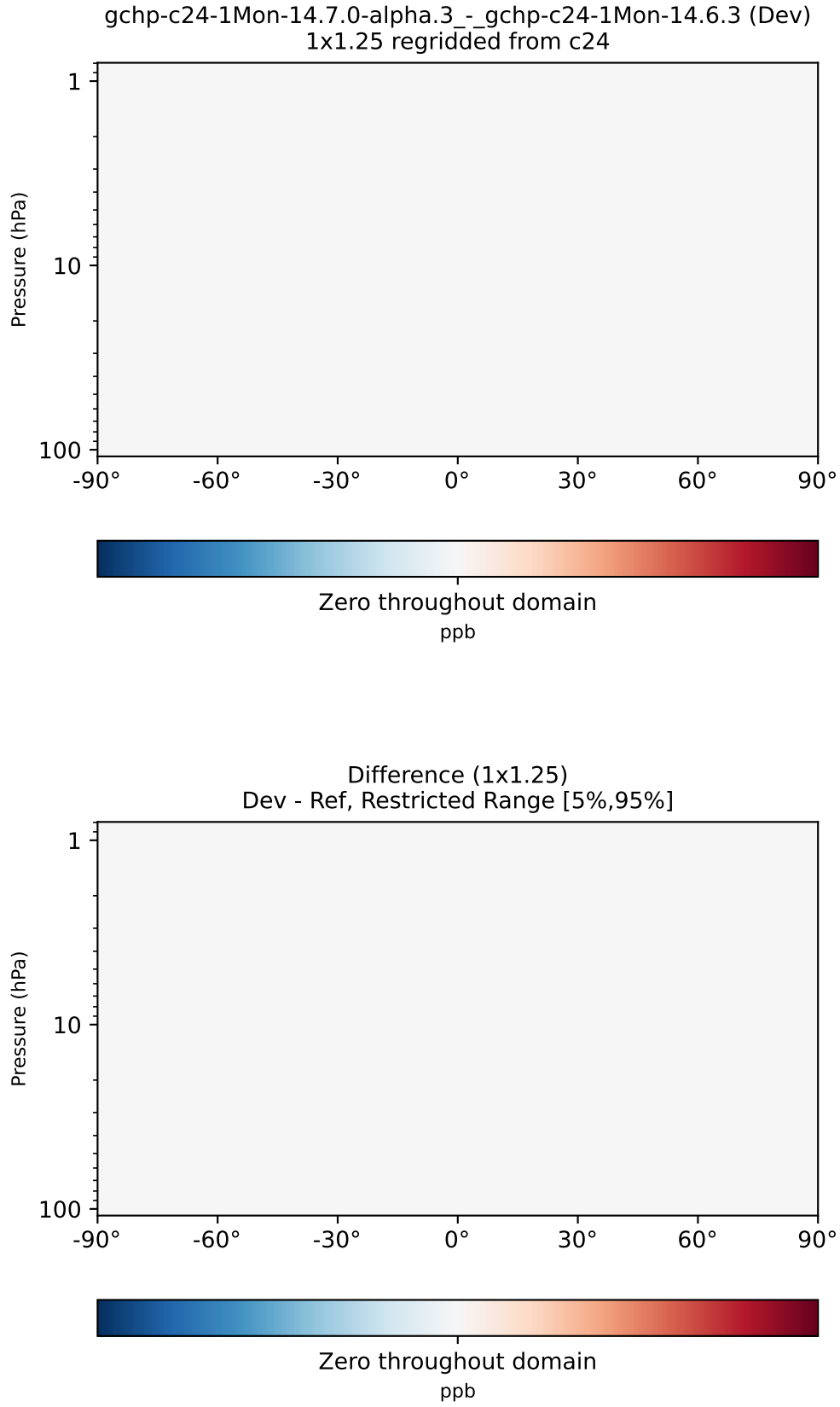


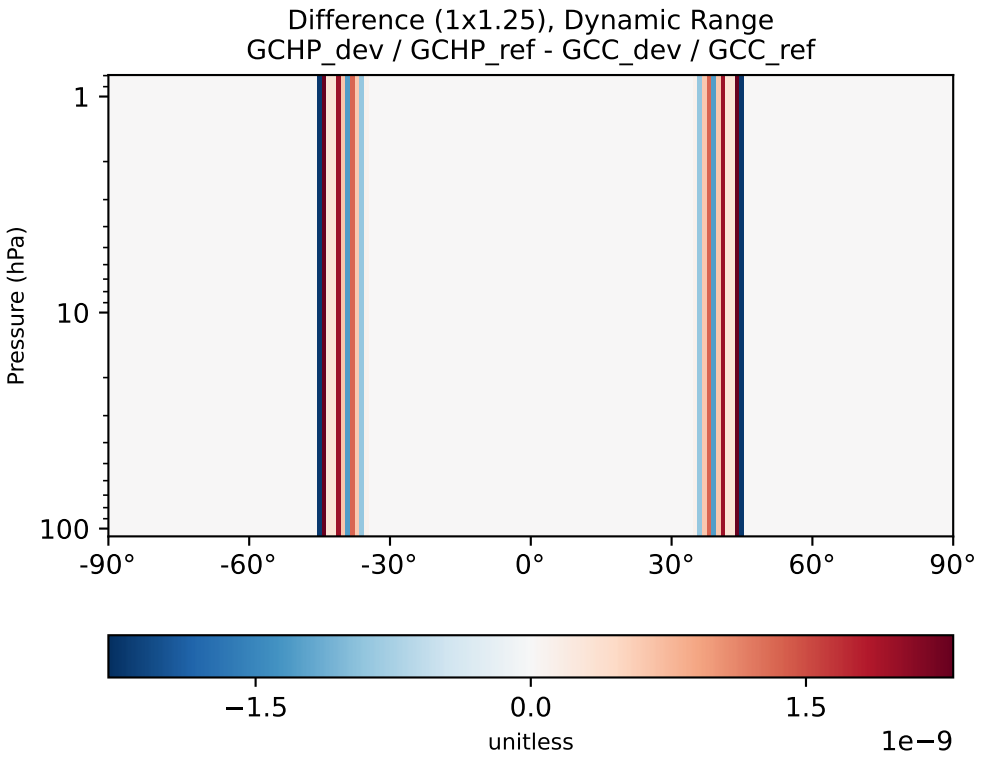


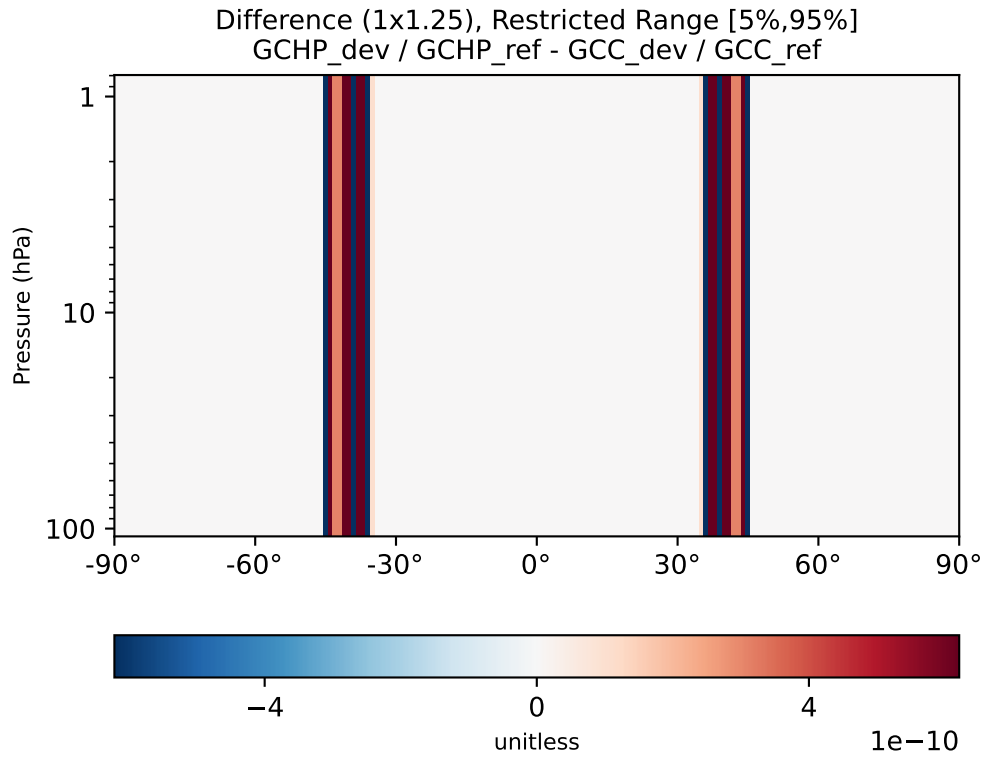


SpeciesConcVV_SALCAL, Zonal Mean

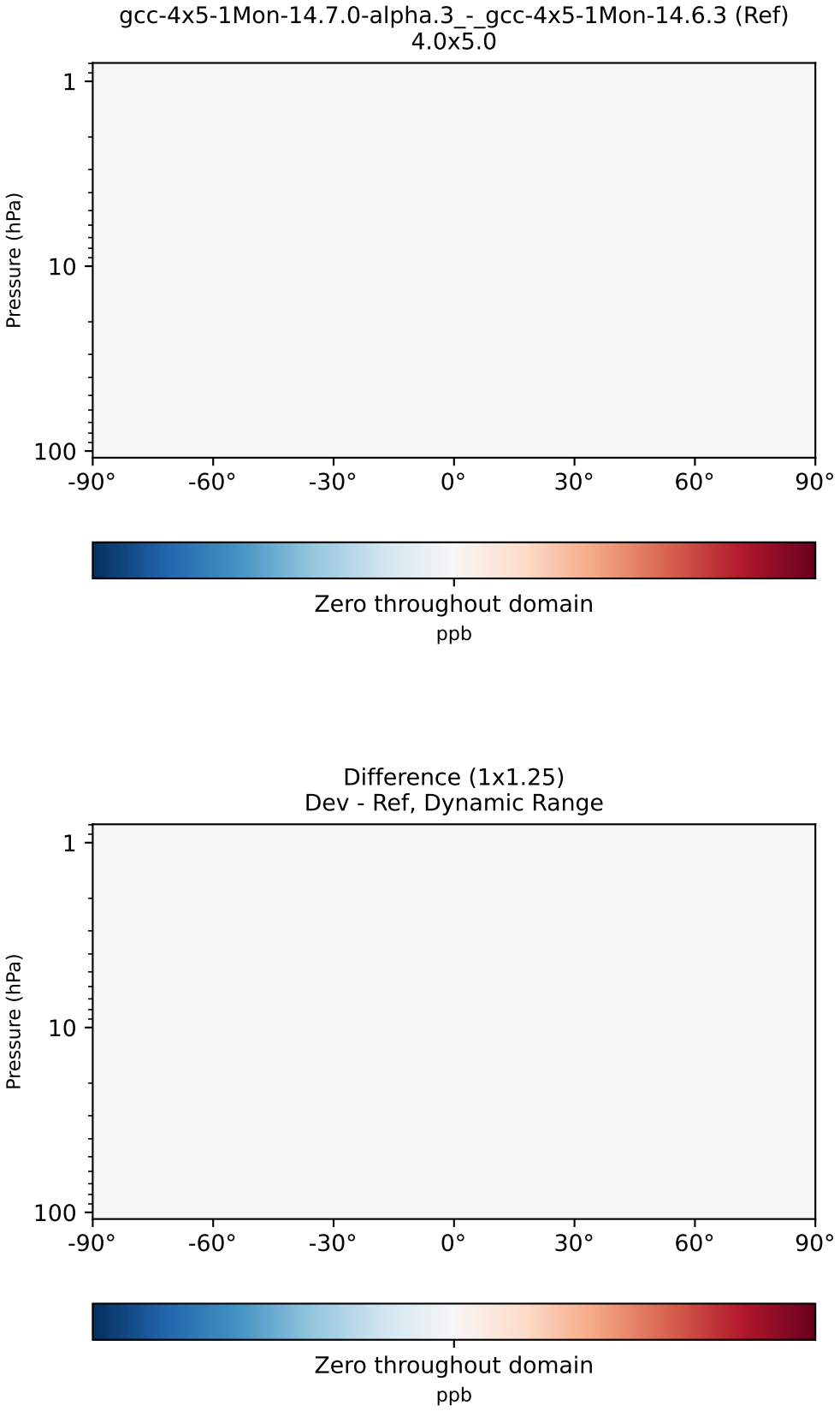


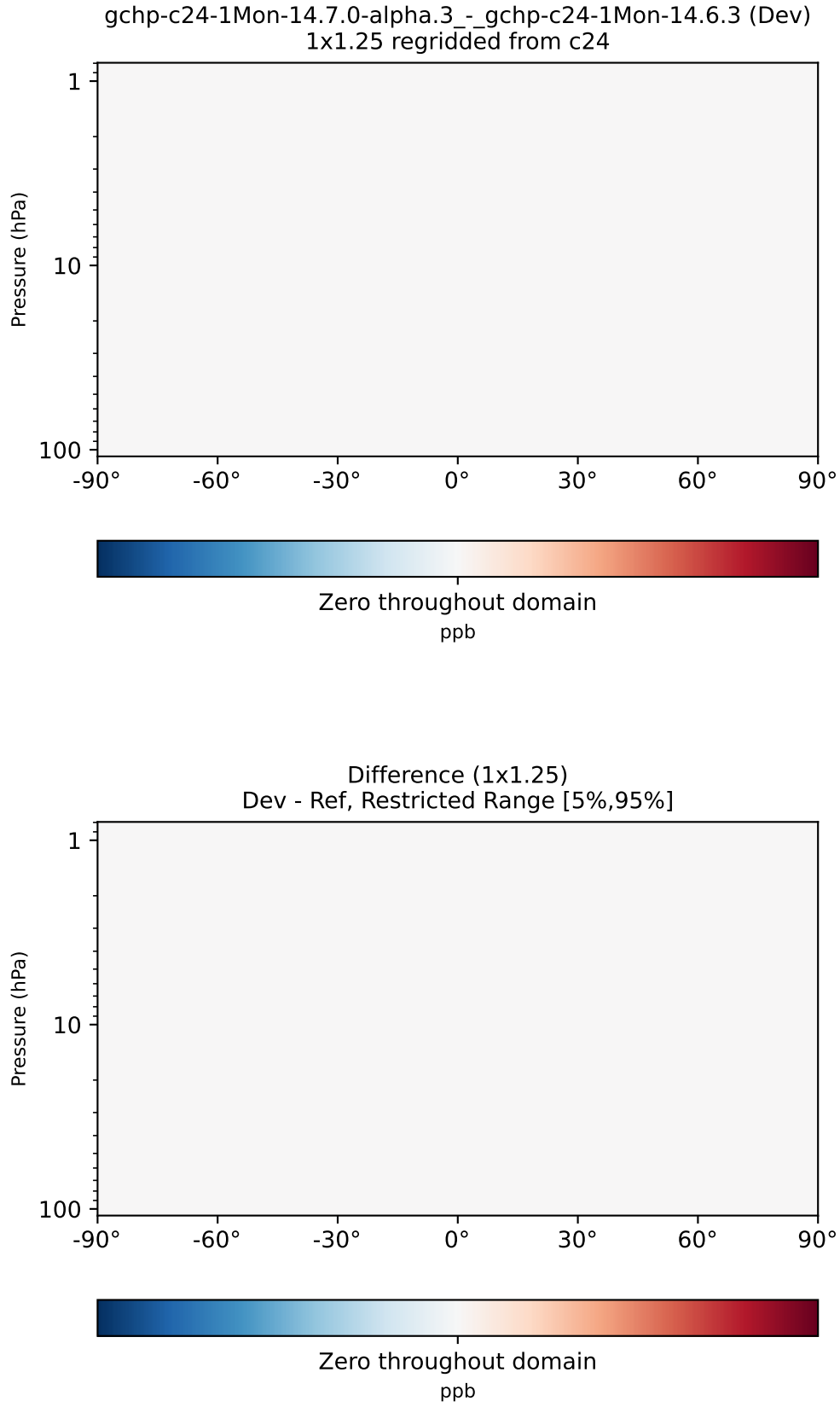


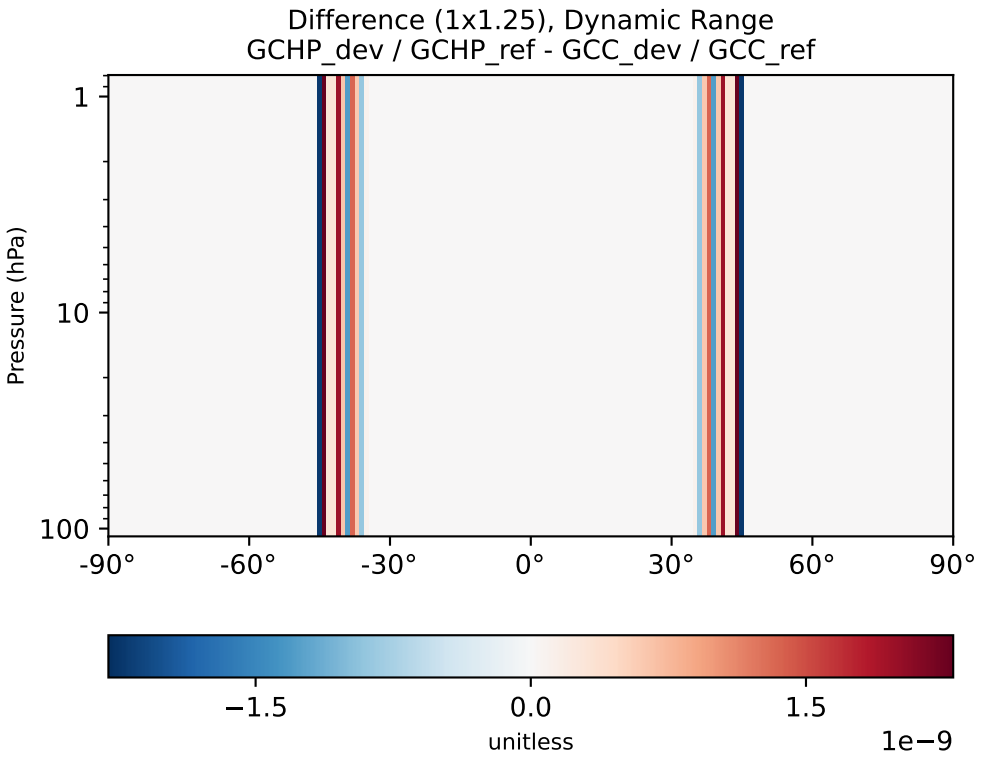


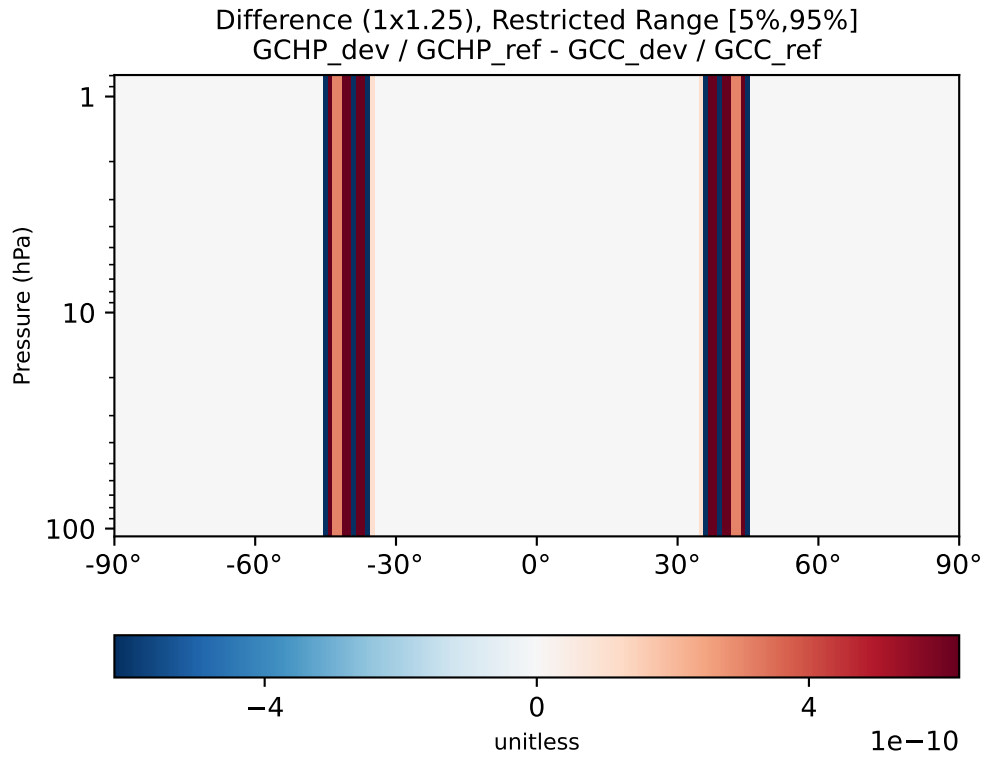


SpeciesConcVV_SALCCL, Zonal Mean



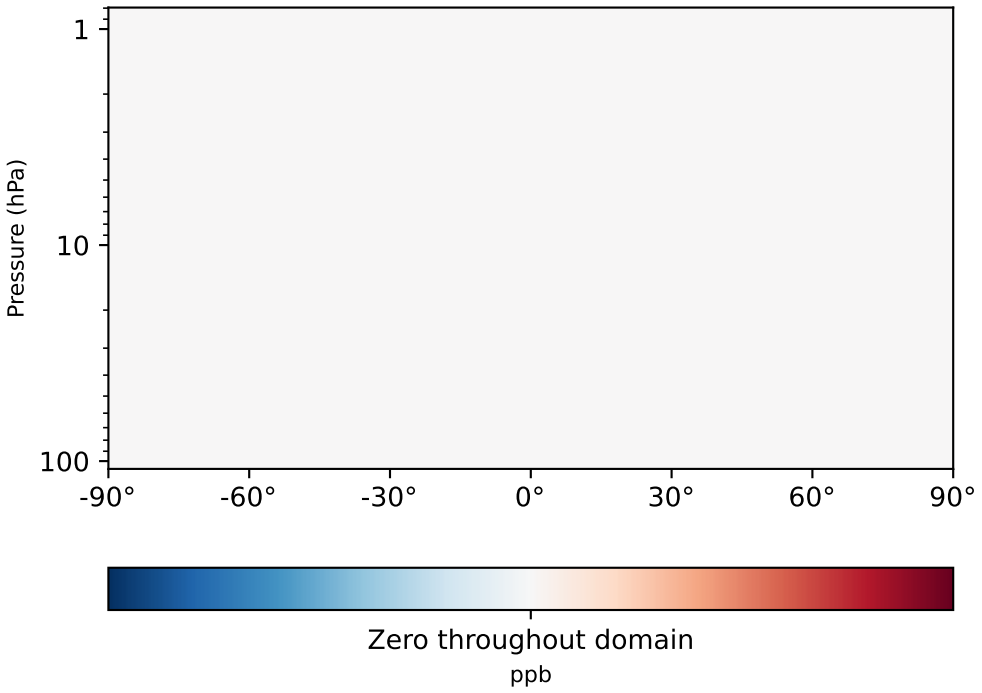




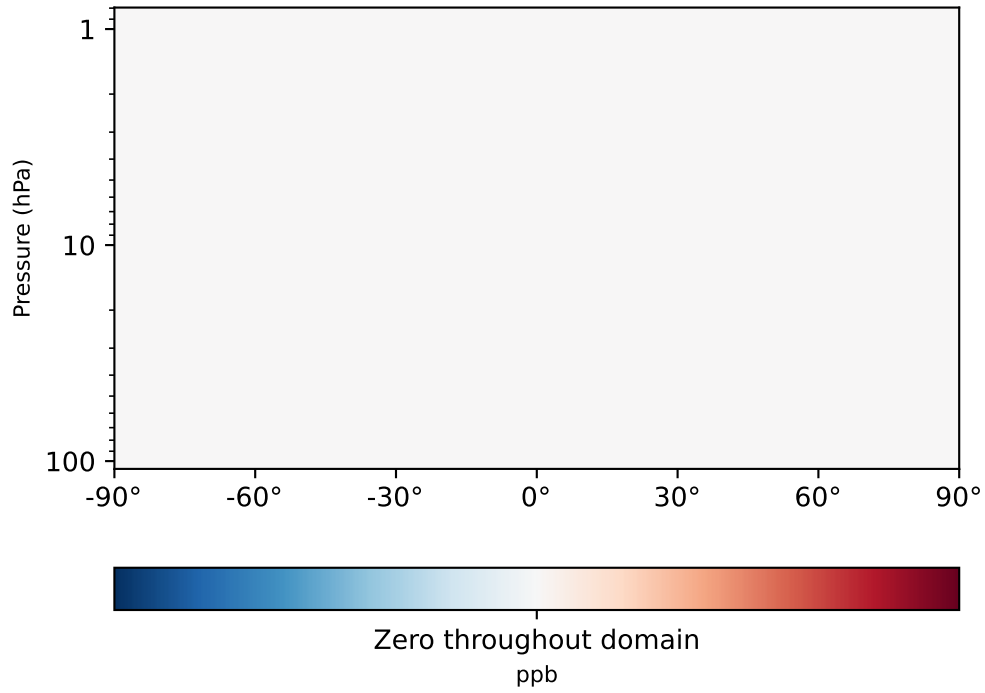


SpeciesConcVV_SO4s, Zonal Mean

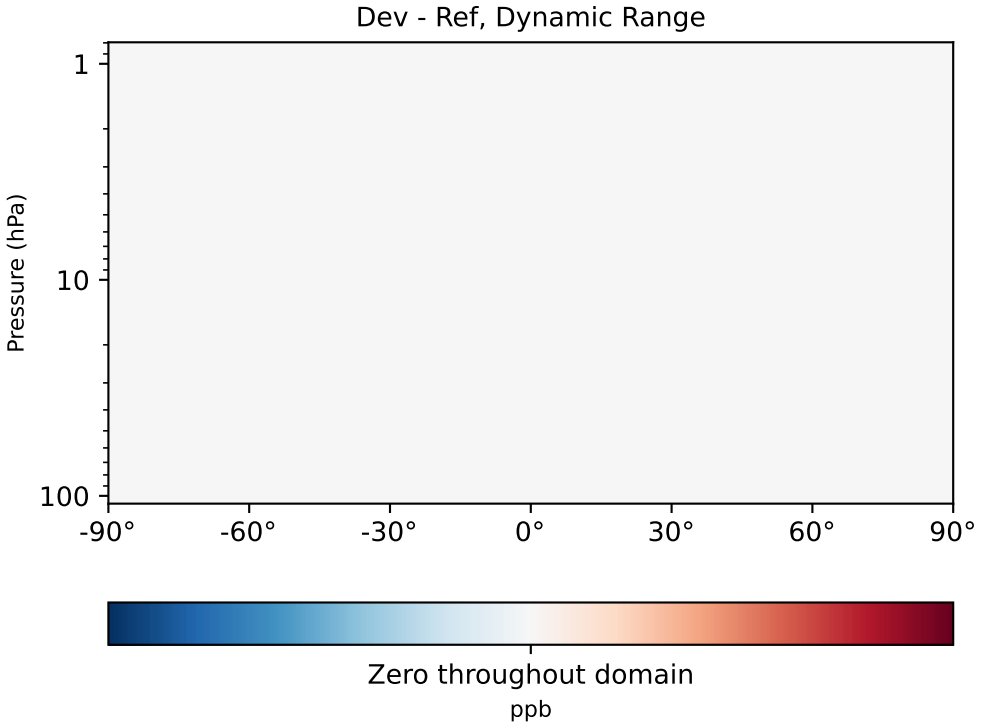
gcc-4x5-1Mon-14.7.0-alpha.3_-_gcc-4x5-1Mon-14.6.3 (Ref)
4.0x5.0



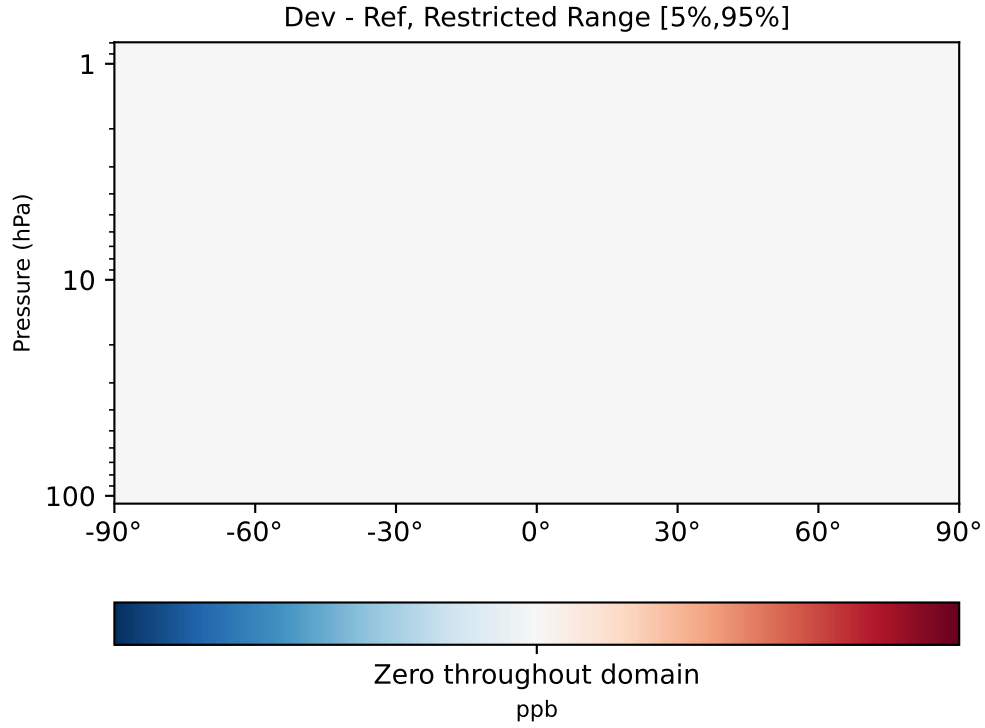
gchp-c24-1Mon-14.7.0-alpha.3_-_gchp-c24-1Mon-14.6.3 (Dev)
1x1.25 regridded from c24



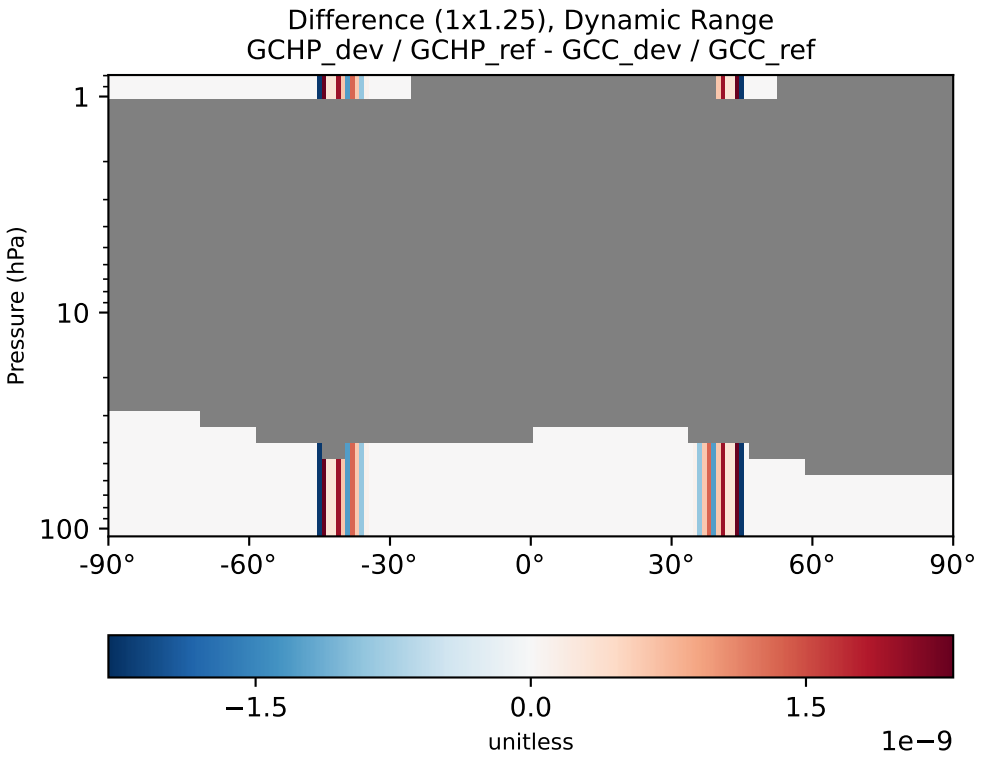
Difference (1x1.25)
Dev - Ref, Dynamic Range



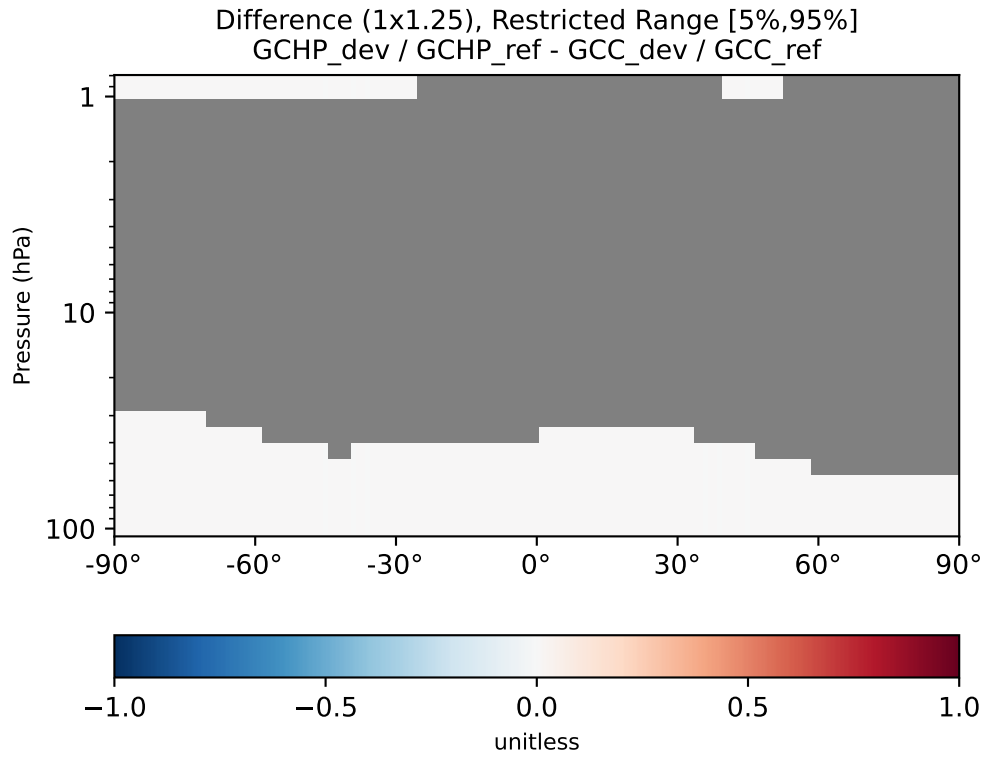
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



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

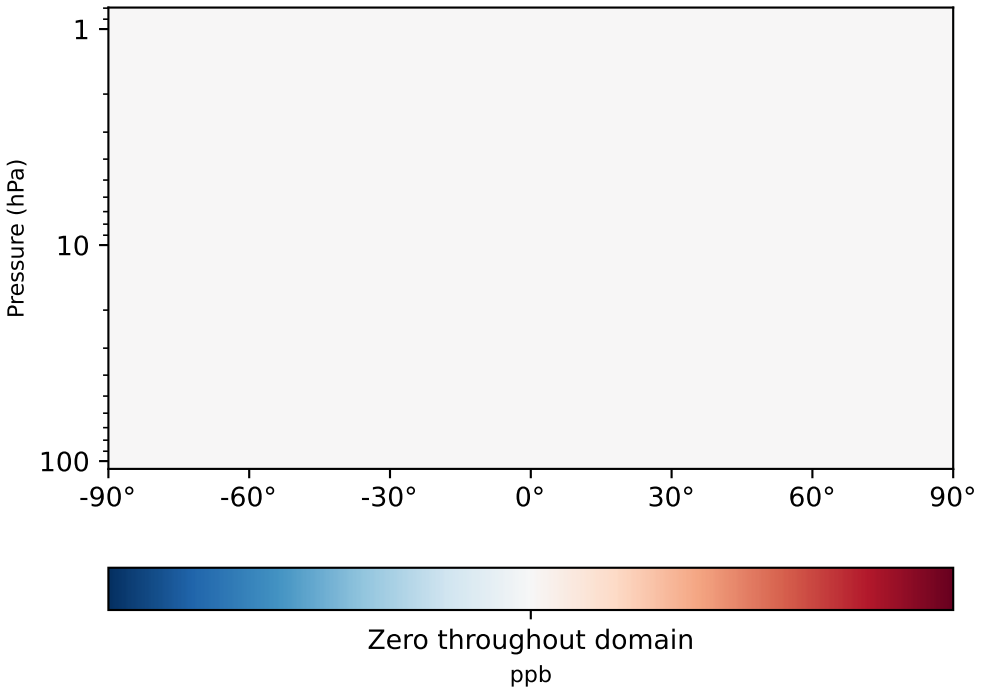


Difference (1x1.25), Restricted Range [5%,95%]
GCHP_dev / GCHP_ref - GCC_dev / GCC_ref

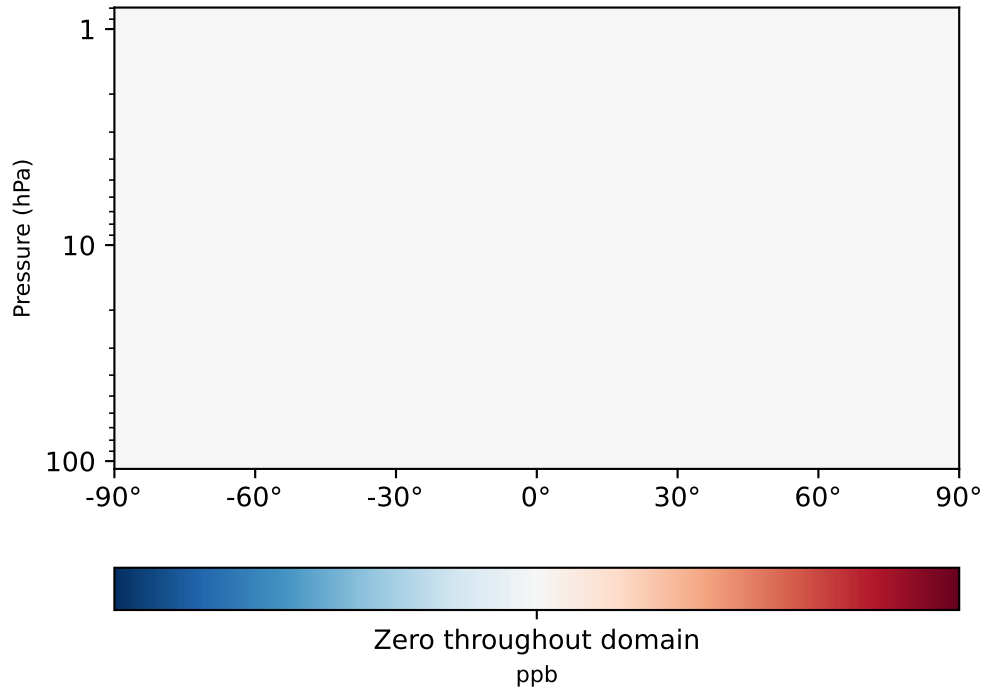


SpeciesConcVV_pFe, Zonal Mean

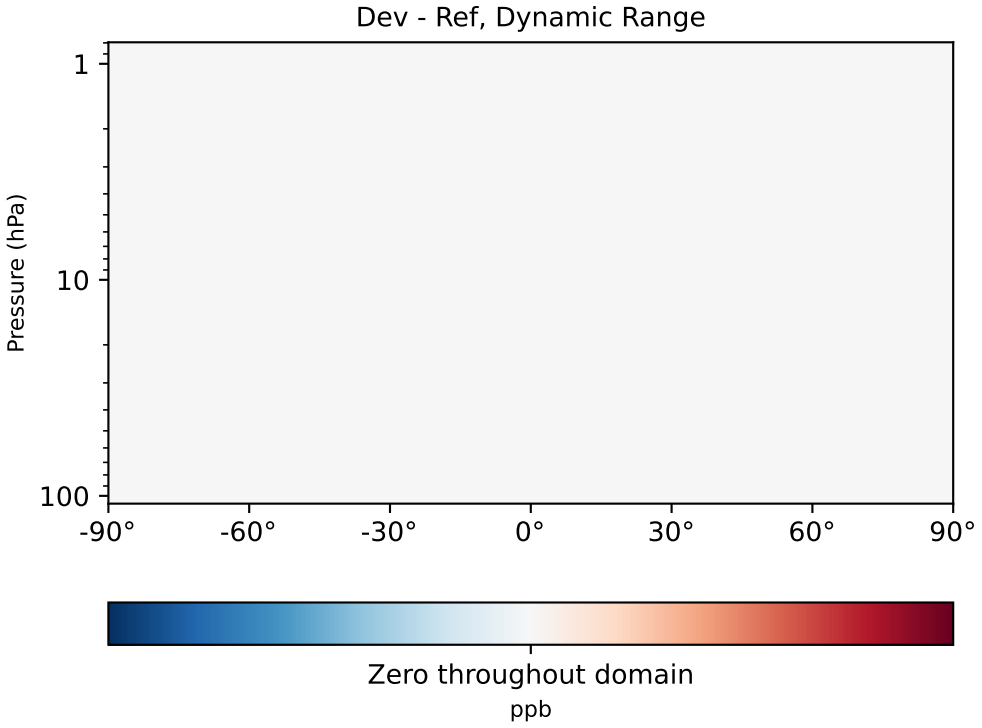
gcc-4x5-1Mon-14.7.0-alpha.3_-_gcc-4x5-1Mon-14.6.3 (Ref)
4.0x5.0



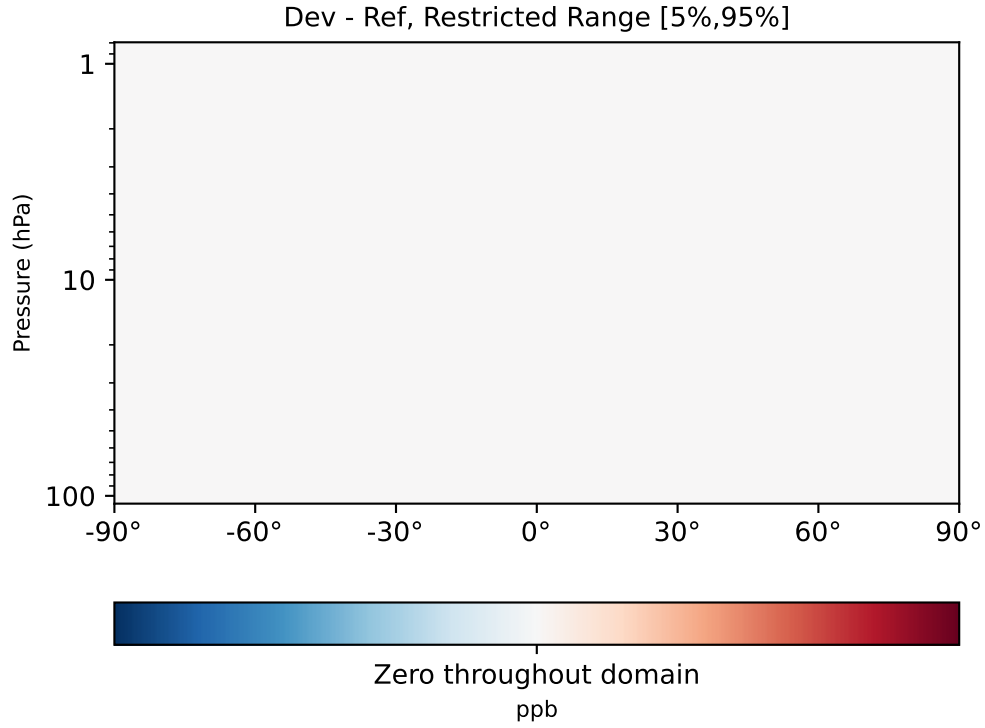
gchp-c24-1Mon-14.7.0-alpha.3_-_gchp-c24-1Mon-14.6.3 (Dev)
1x1.25 regridded from c24



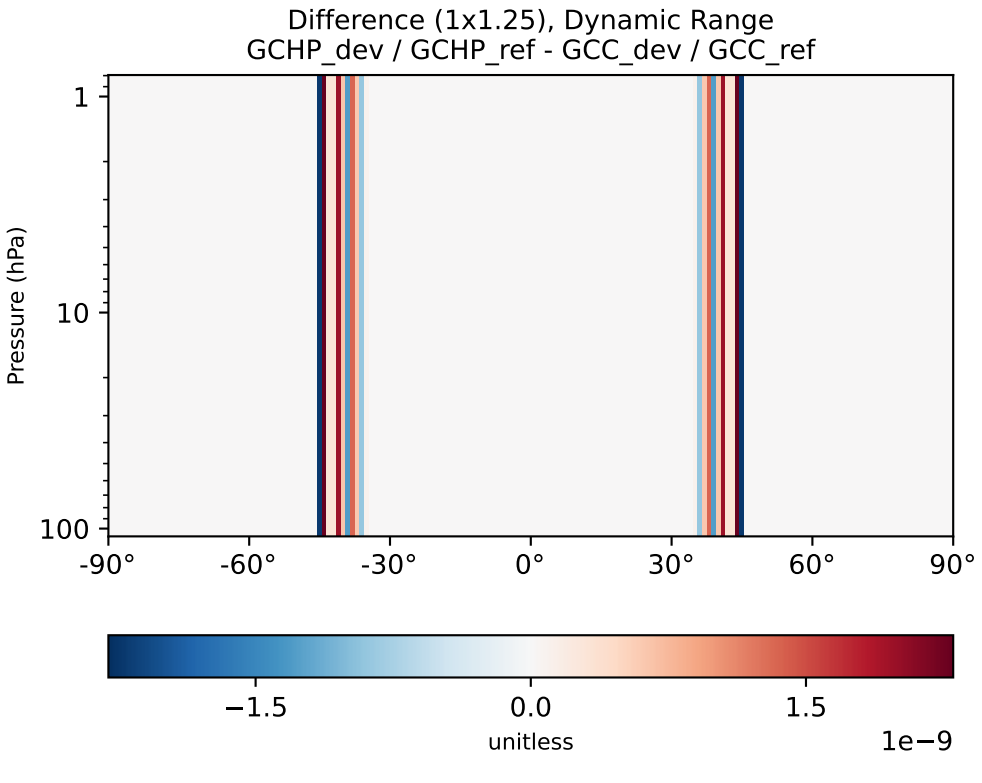
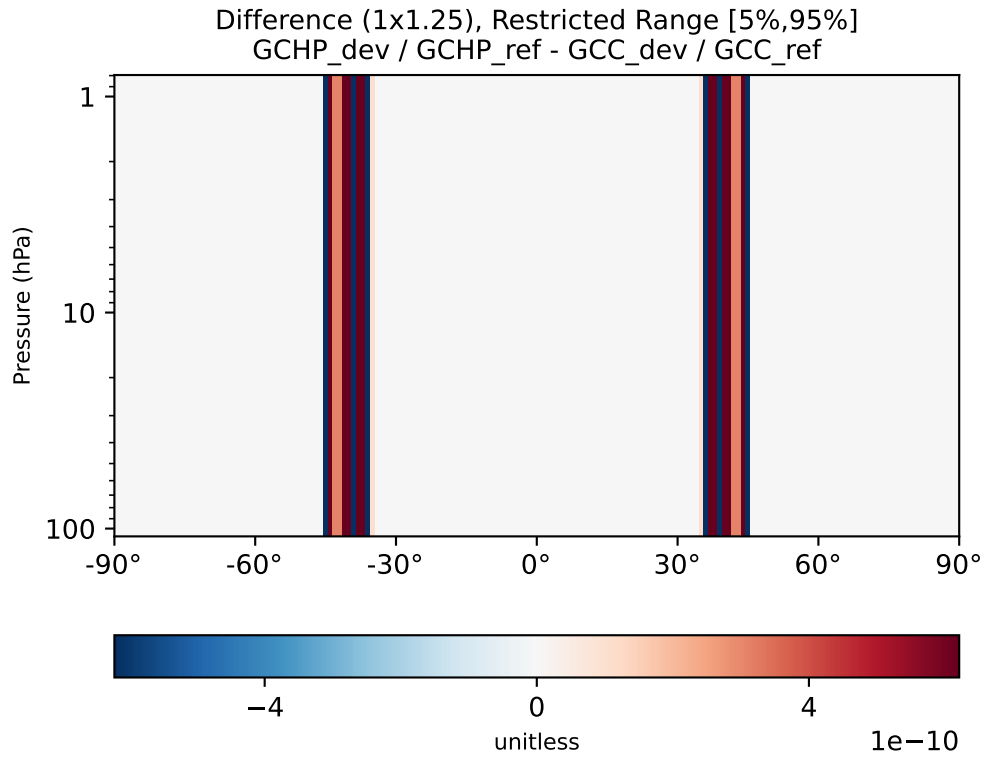
Difference (1x1.25)
Dev - Ref, Dynamic Range



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