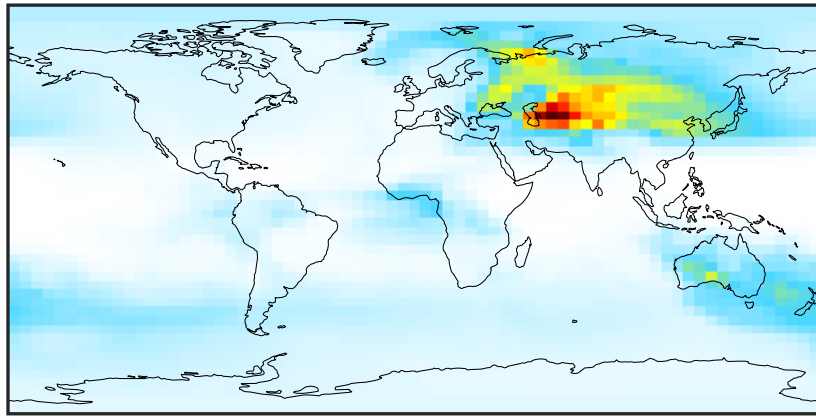


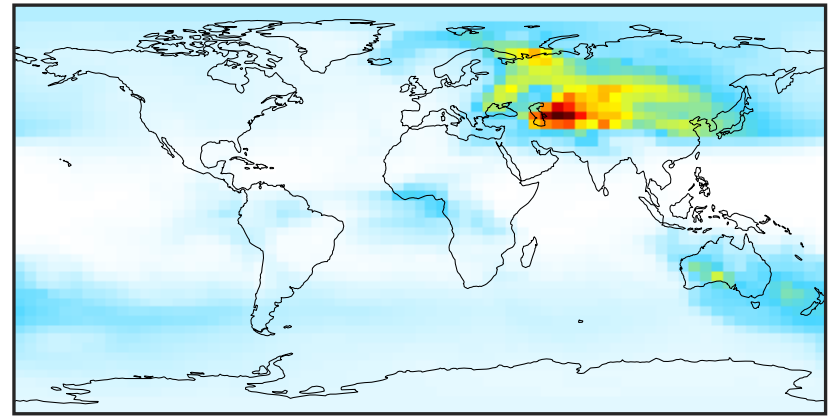
SpeciesConcVV_DST1 (Jan2019)

14.2.0-rc.2 (Ref)
4.0x5.0



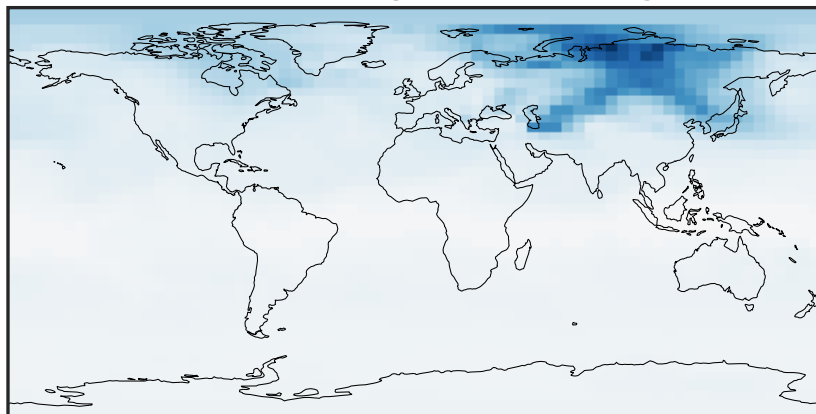
0.0015 0.2072 0.4128 0.6184 0.8241
 $\mu\text{g}/\text{m}^3$

14.3.0-rc.0 (Dev)
4.0x5.0



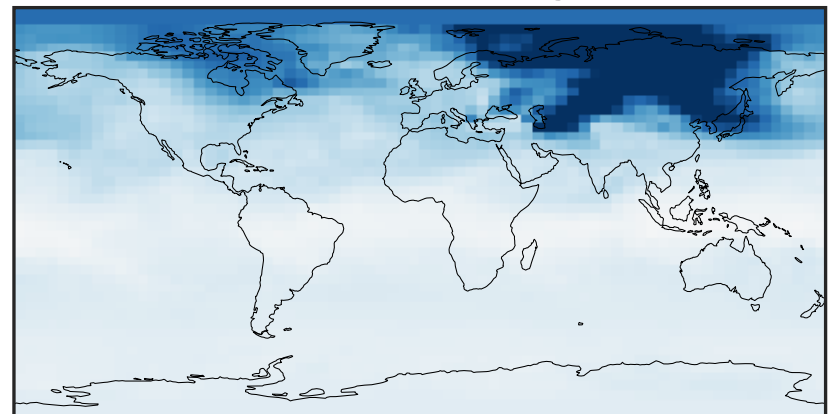
0.0015 0.2072 0.4128 0.6184 0.8241
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



-6 0 6
 $\mu\text{g}/\text{m}^3$ $1\text{e}-5$

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



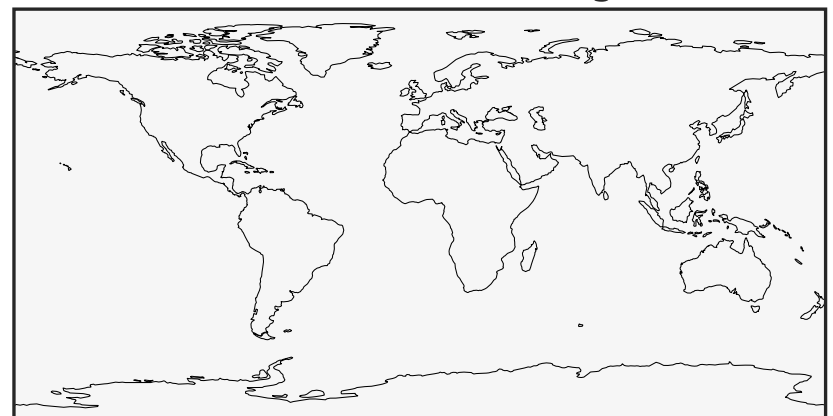
-2.5 0.0 2.5
 $\mu\text{g}/\text{m}^3$ $1\text{e}-5$

Ratio
Dev/Ref, Dynamic Range



0.99998683 1.00000000 1.00001317
unitless

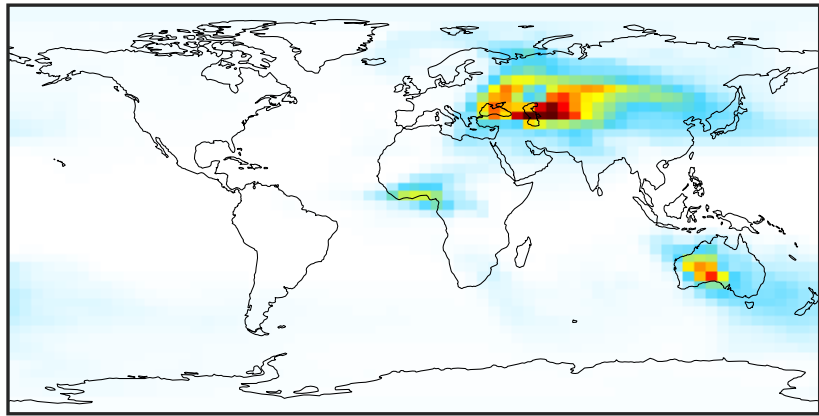
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

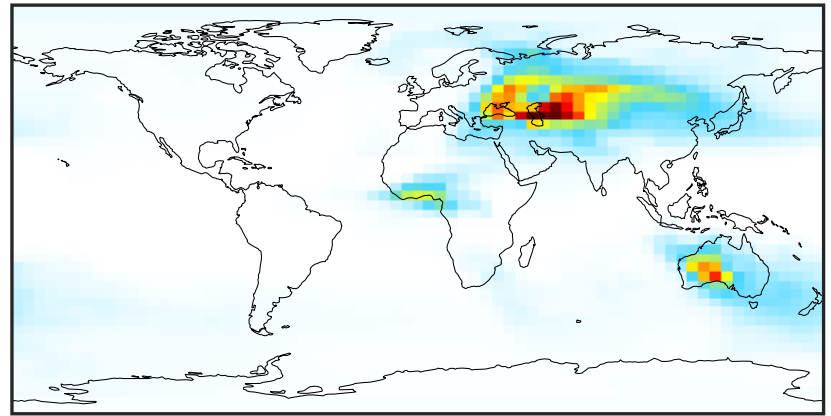
SpeciesConcVV_DST2 (Jan2019)

14.2.0-rc.2 (Ref)
4.0x5.0



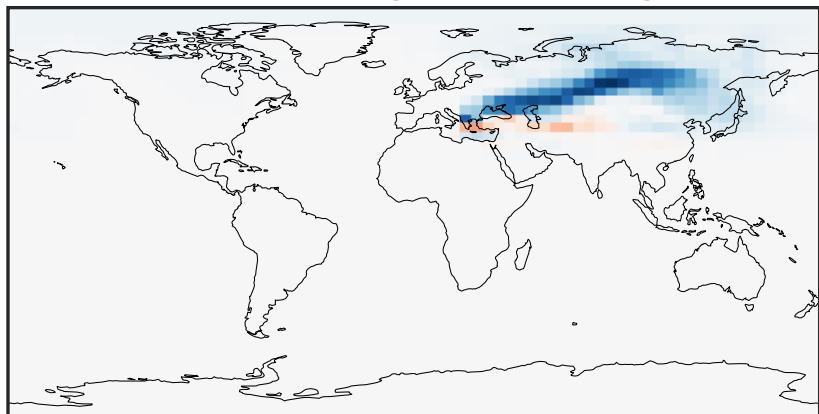
0.0000 0.0733 0.1466 0.2199 0.2932
 $\mu\text{g}/\text{m}^3$

14.3.0-rc.0 (Dev)
4.0x5.0



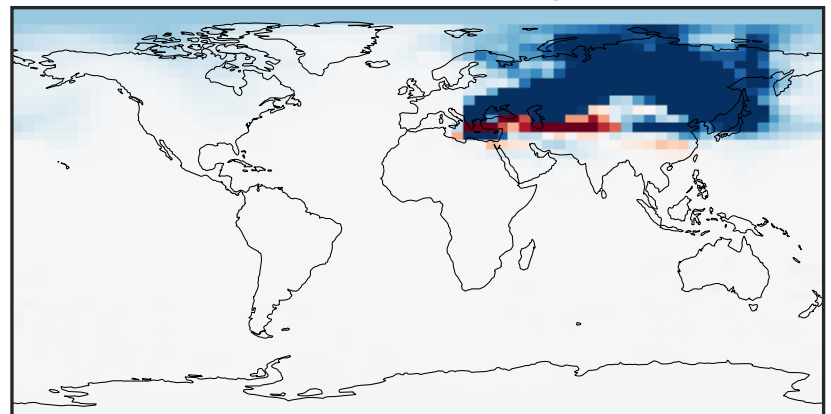
0.0000 0.0733 0.1466 0.2199 0.2932
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



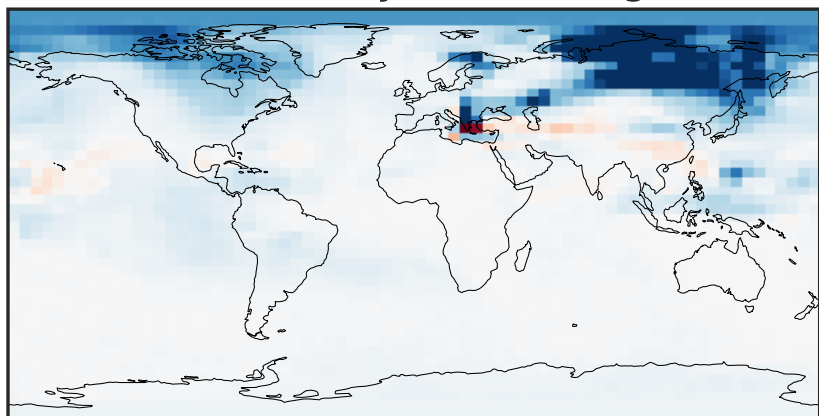
-6 0 6
 $\mu\text{g}/\text{m}^3$ $1\text{e}-7$

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



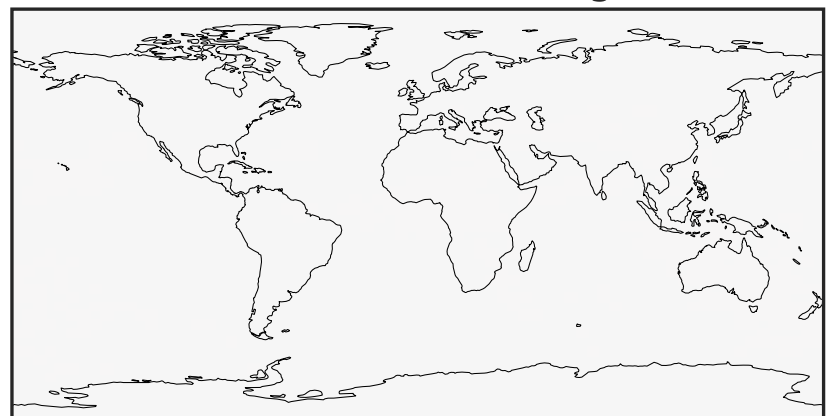
-8 0 8
 $\mu\text{g}/\text{m}^3$ $1\text{e}-8$

Ratio
Dev/Ref, Dynamic Range



0.99998736 1.0000000 1.00001264
unitless

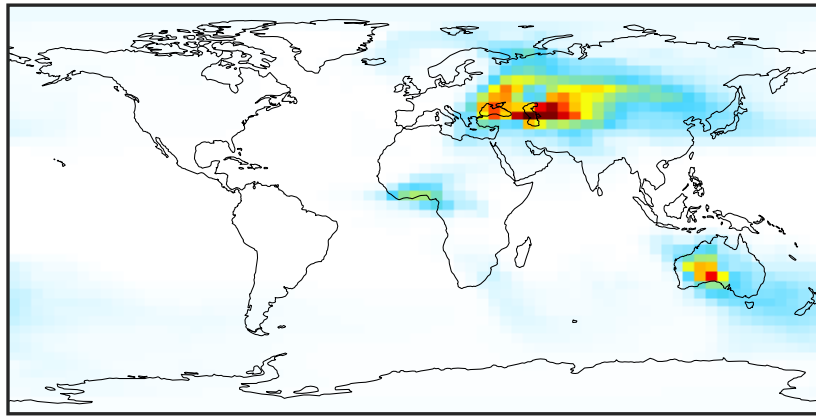
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

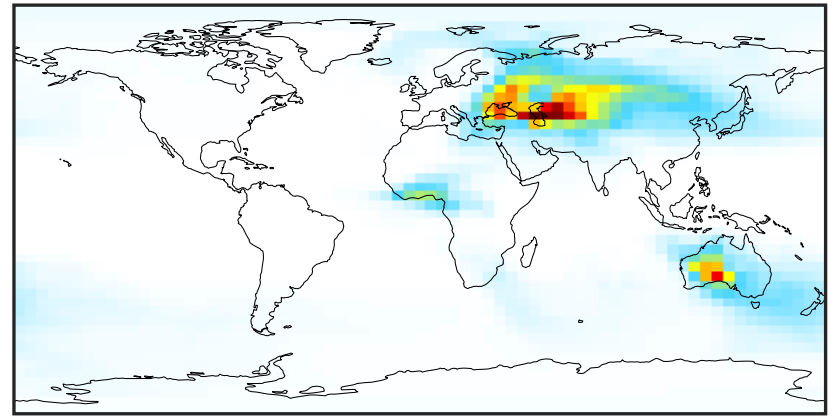
SpeciesConcVV_DST3 (Jan2019)

14.2.0-rc.2 (Ref)
4.0x5.0



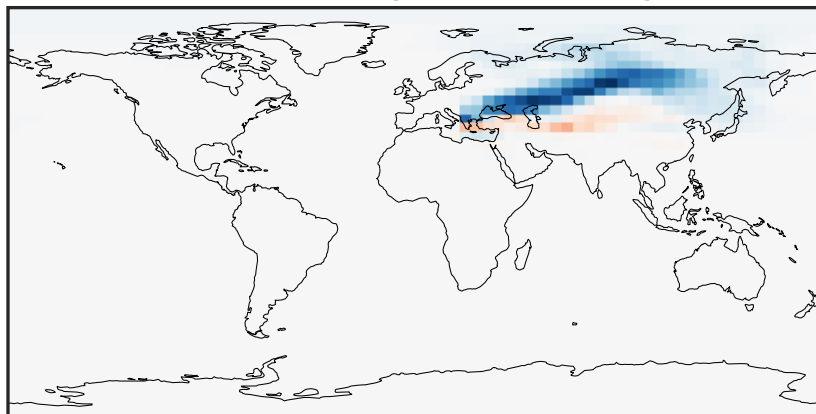
0.0000 0.0824 0.1649 0.2473 0.3298 $\mu\text{g}/\text{m}^3$

14.3.0-rc.0 (Dev)
4.0x5.0



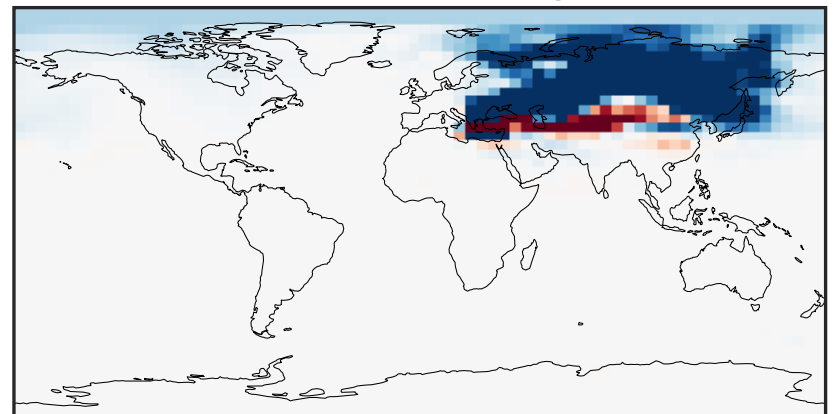
0.0000 0.0824 0.1649 0.2473 0.3298 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



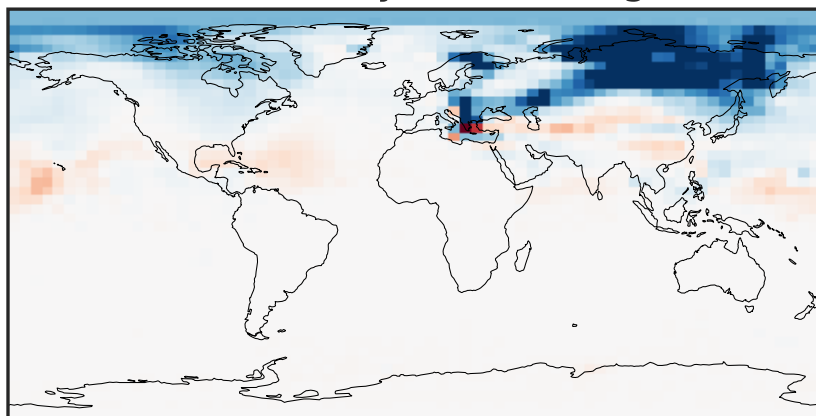
-8 0 8 $\mu\text{g}/\text{m}^3$ $1\text{e}-7$

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



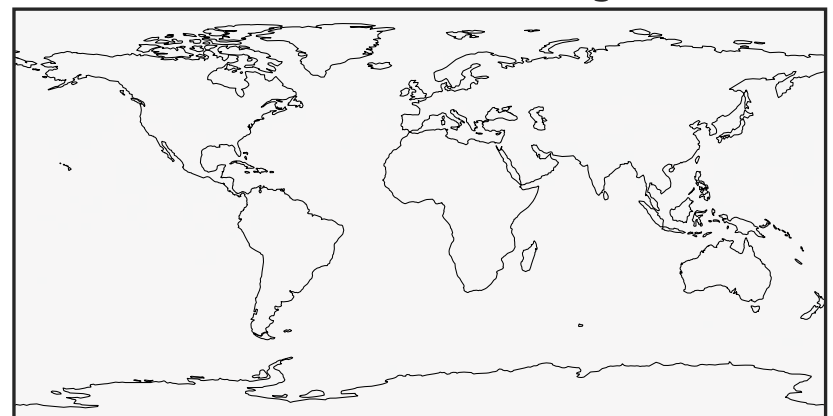
-8 0 8 $\mu\text{g}/\text{m}^3$ $1\text{e}-8$

Ratio
Dev/Ref, Dynamic Range



0.99998796 1.0000000 1.00001204 unitless

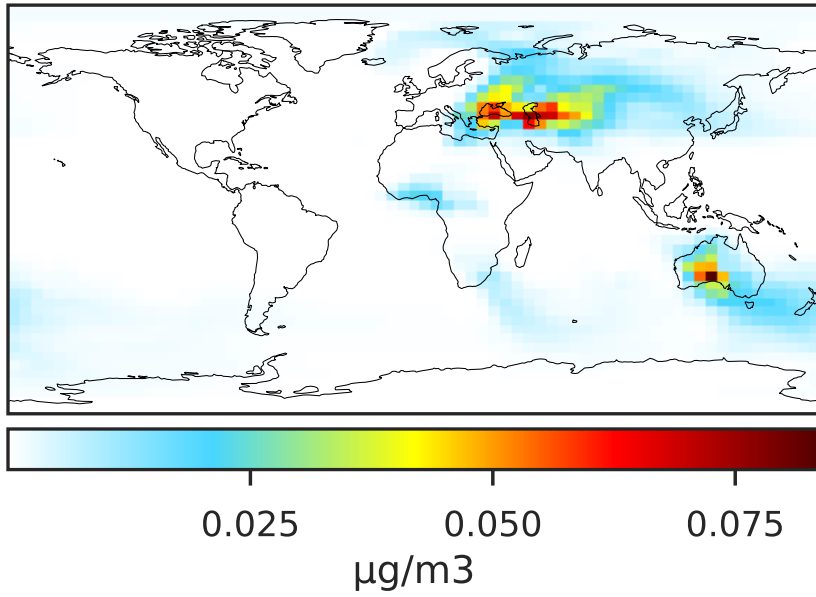
Ratio
Dev/Ref, Fixed Range



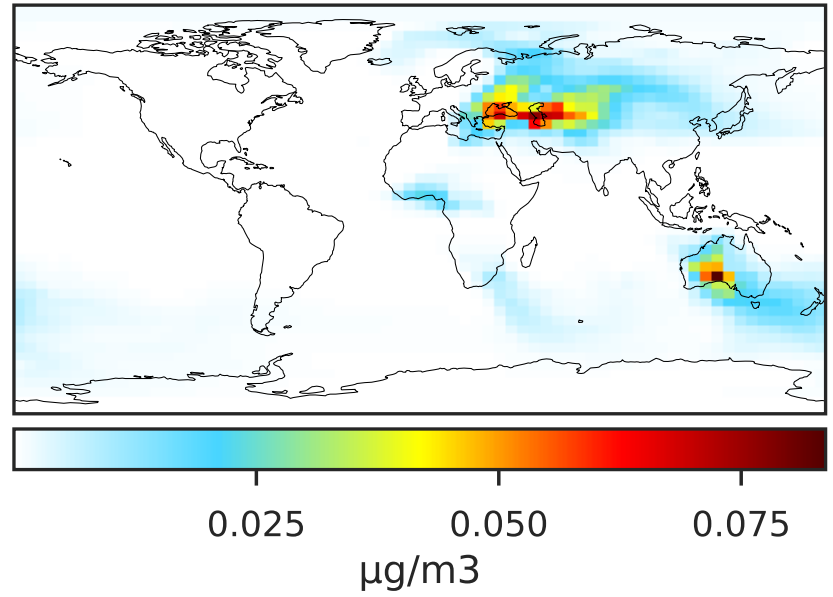
0.50 0.75 1.00 1.50 2.00 unitless

SpeciesConcVV_DST4 (Jan2019)

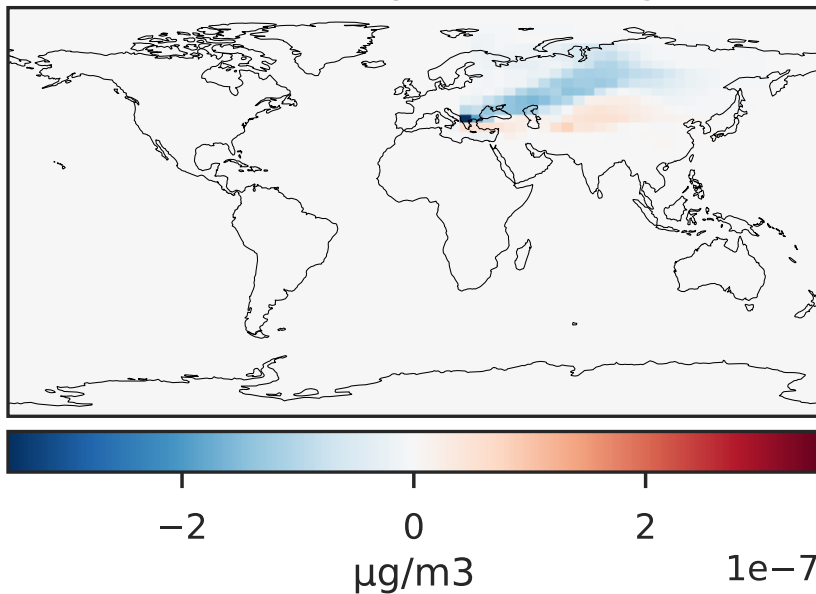
14.2.0-rc.2 (Ref)
4.0x5.0



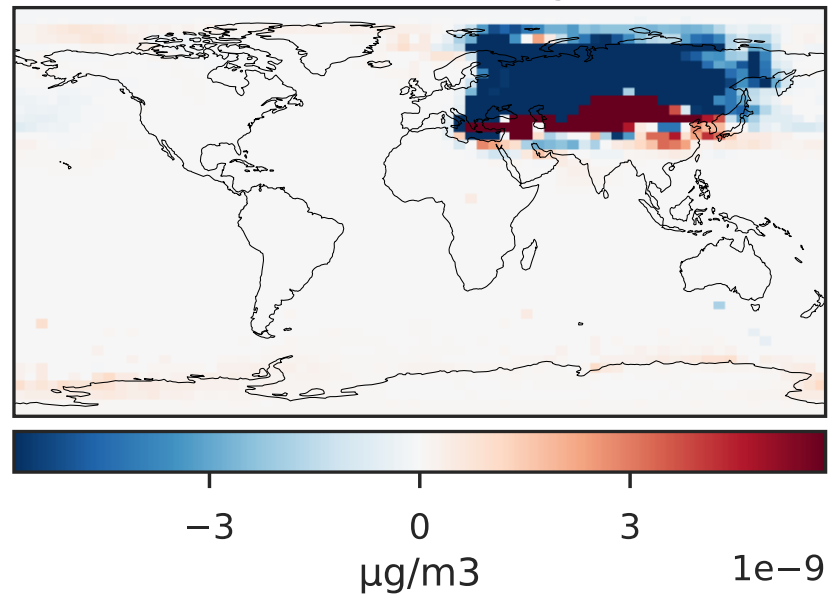
14.3.0-rc.0 (Dev)
4.0x5.0



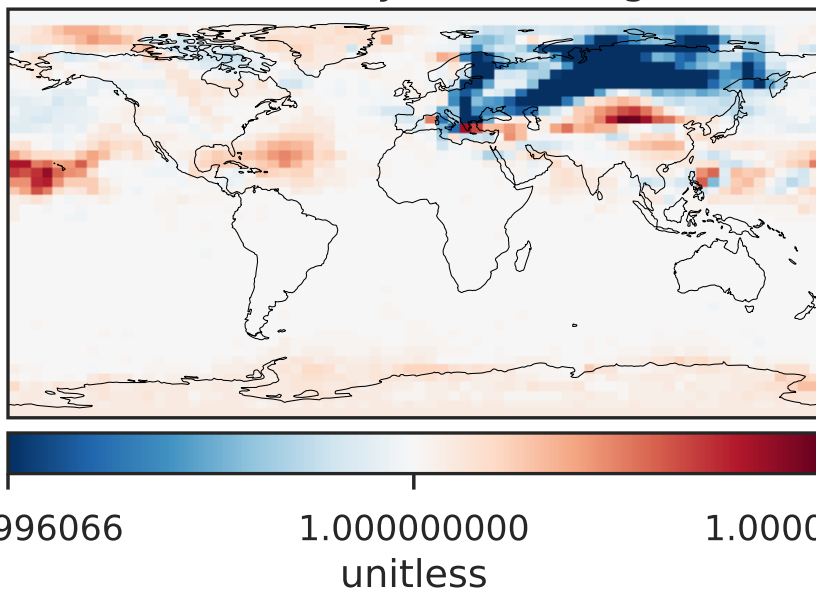
Difference
Dev - Ref, Dynamic Range



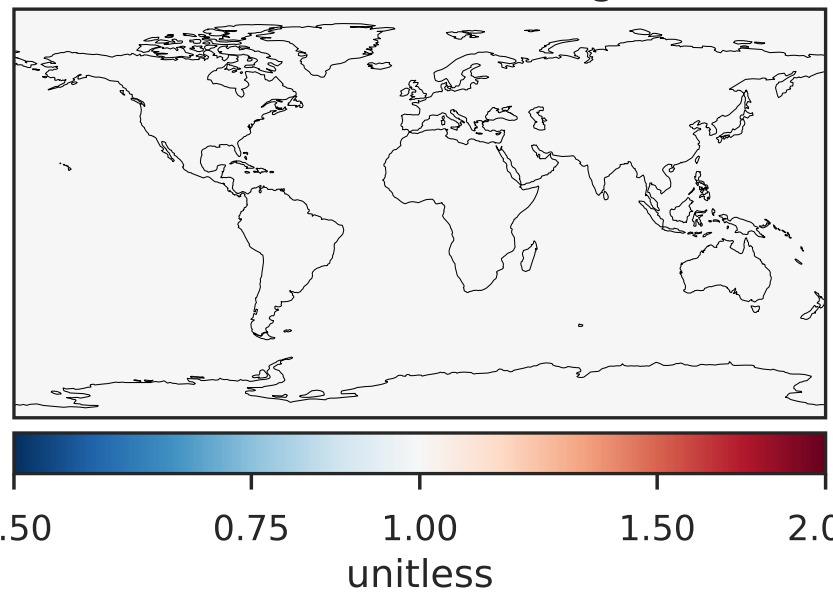
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

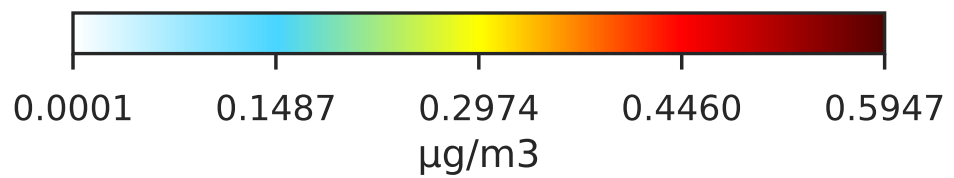
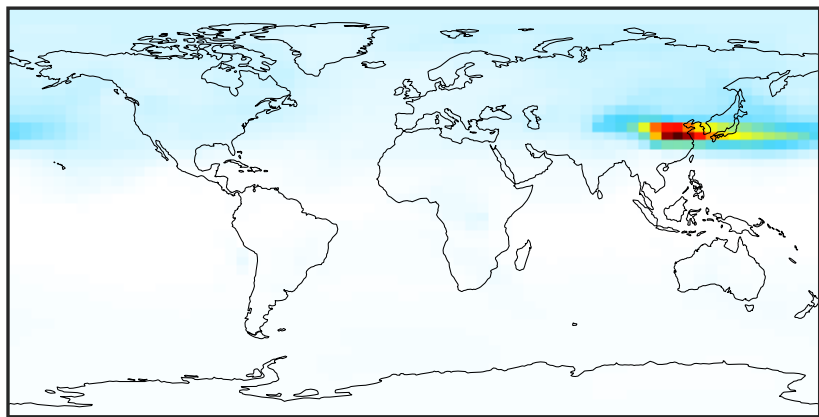


Ratio
Dev/Ref, Fixed Range

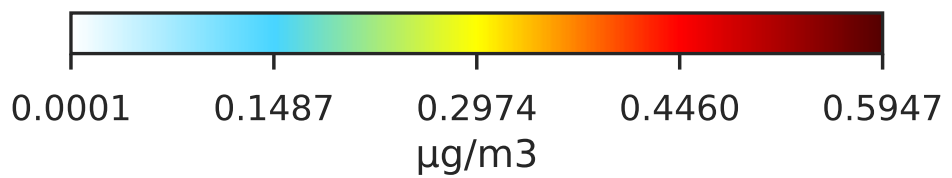
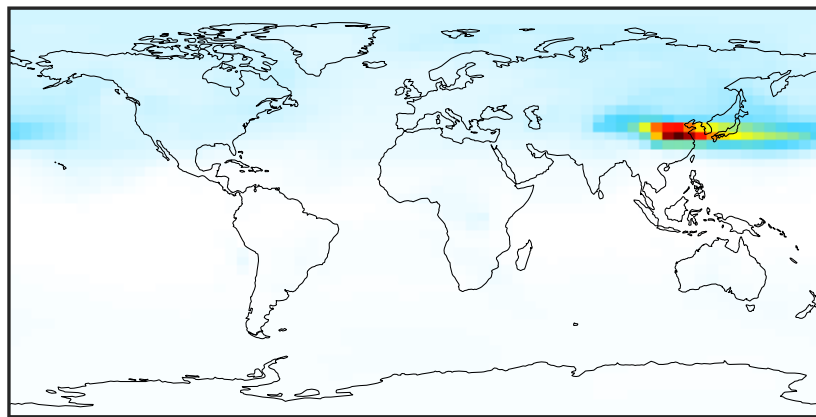


SpeciesConcVV_NH4 (Jan2019)

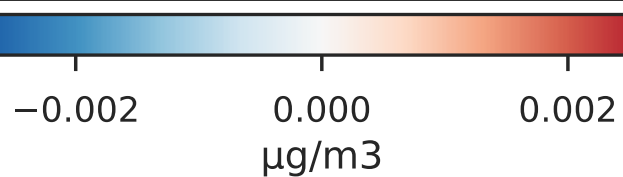
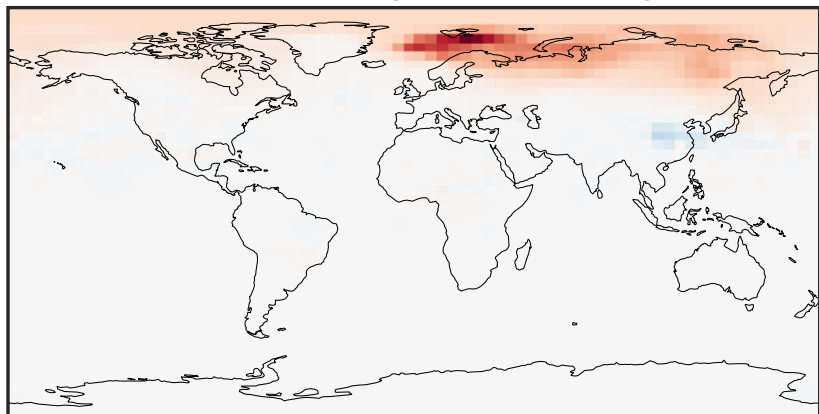
14.2.0-rc.2 (Ref)
4.0x5.0



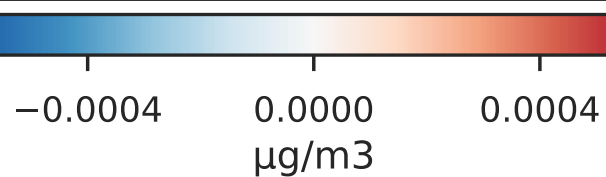
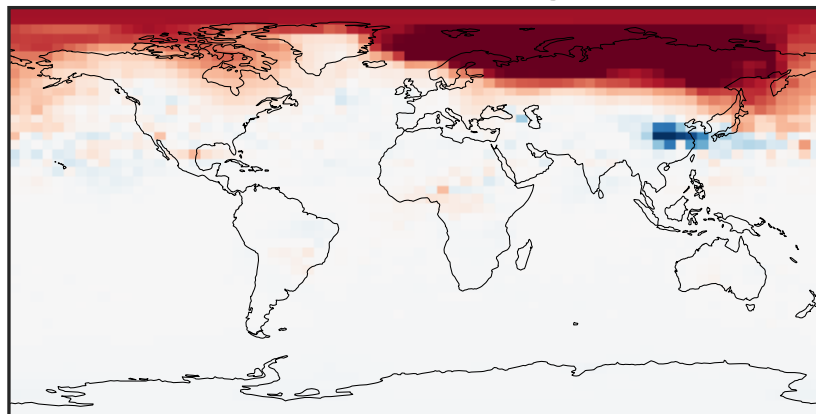
14.3.0-rc.0 (Dev)
4.0x5.0



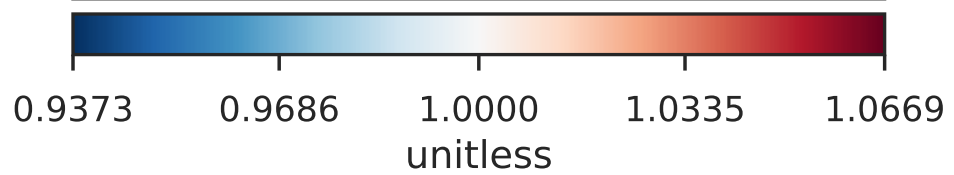
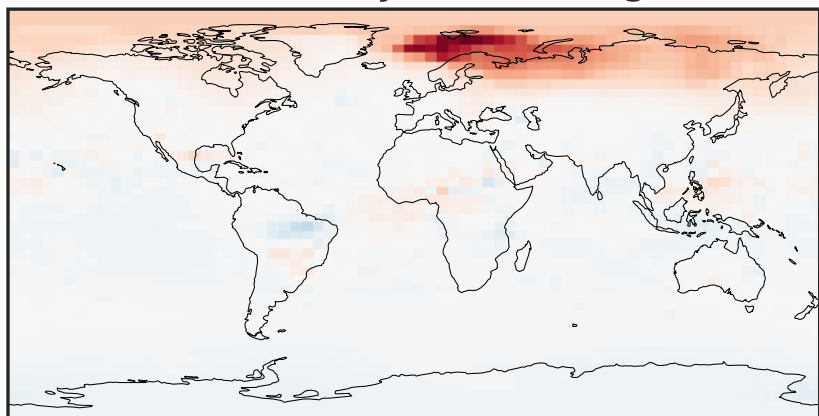
Difference
Dev - Ref, Dynamic Range



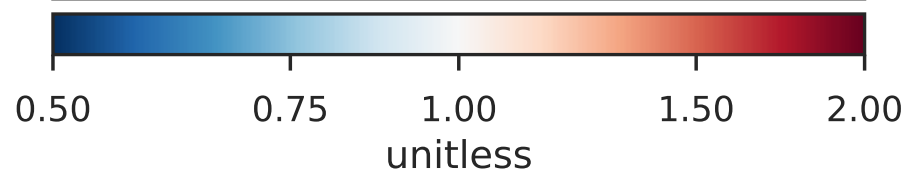
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

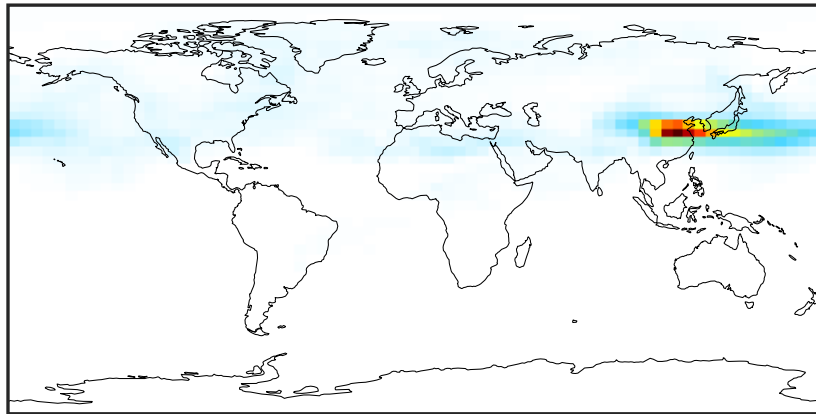


Ratio
Dev/Ref, Fixed Range



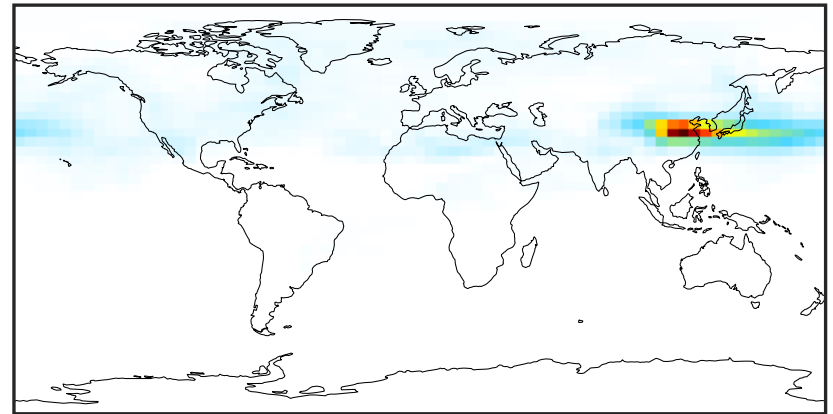
SpeciesConcVV_NIT (Jan2019)

14.2.0-rc.2 (Ref)
4.0x5.0



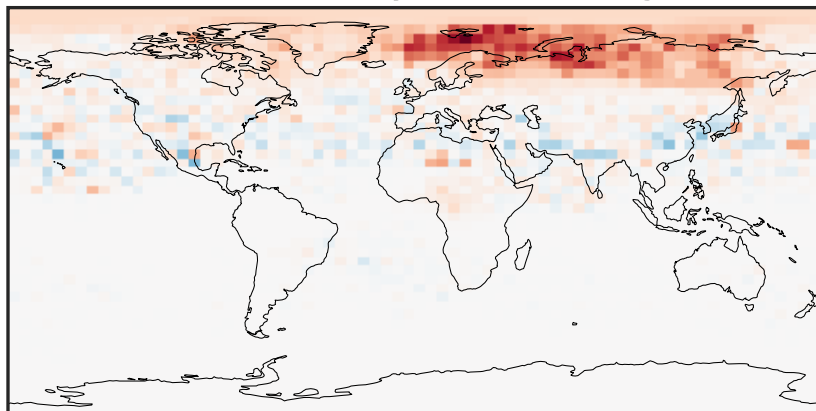
0.0000 0.2437 0.4875 0.7312 0.9749
 $\mu\text{g}/\text{m}^3$

14.3.0-rc.0 (Dev)
4.0x5.0



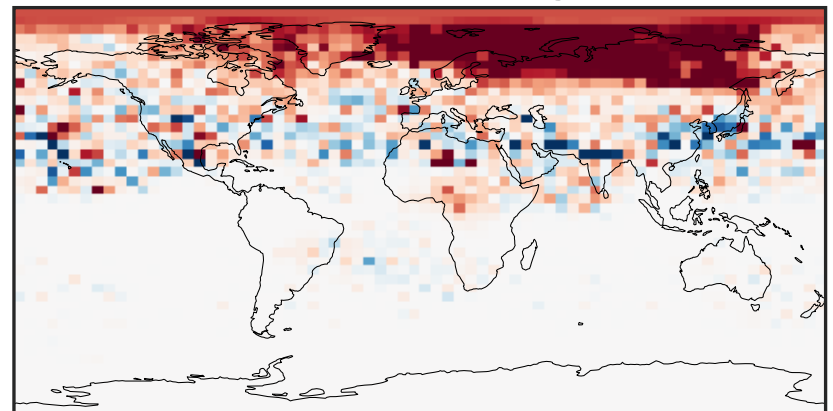
0.0000 0.2437 0.4875 0.7312 0.9749
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



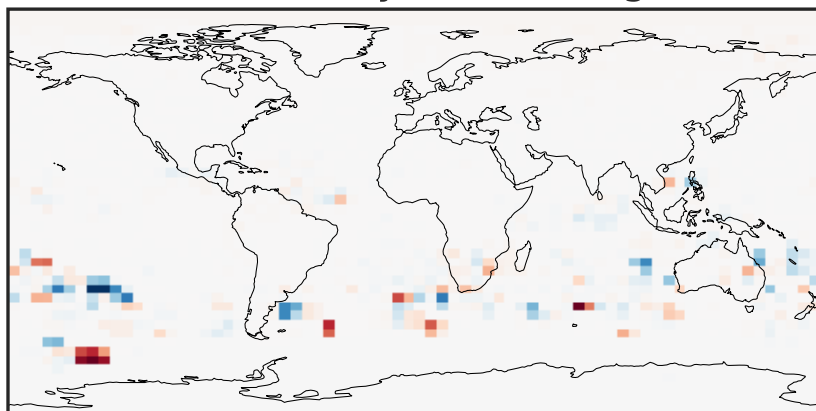
-0.0025 0.0000 0.0025
 $\mu\text{g}/\text{m}^3$

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



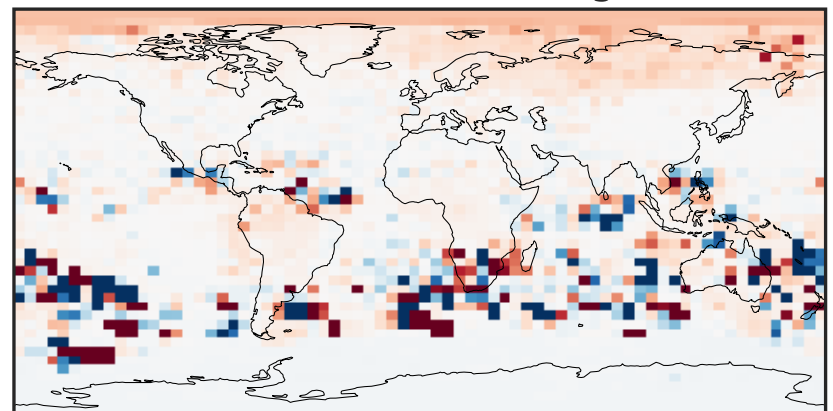
-0.0008 0.0000 0.0008
 $\mu\text{g}/\text{m}^3$

Ratio
Dev/Ref, Dynamic Range



unitless

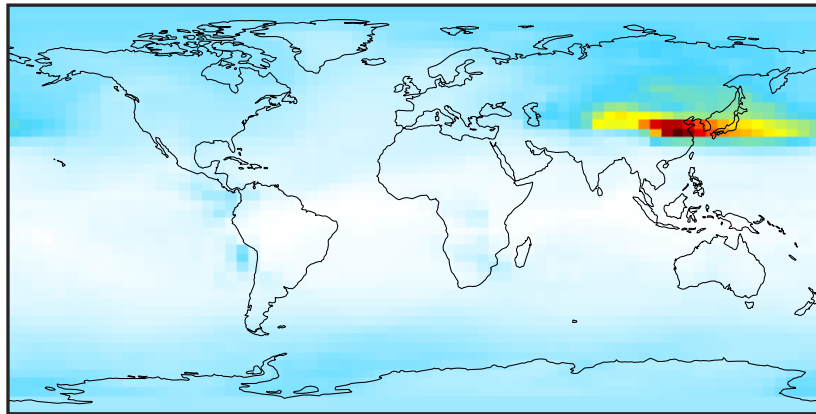
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

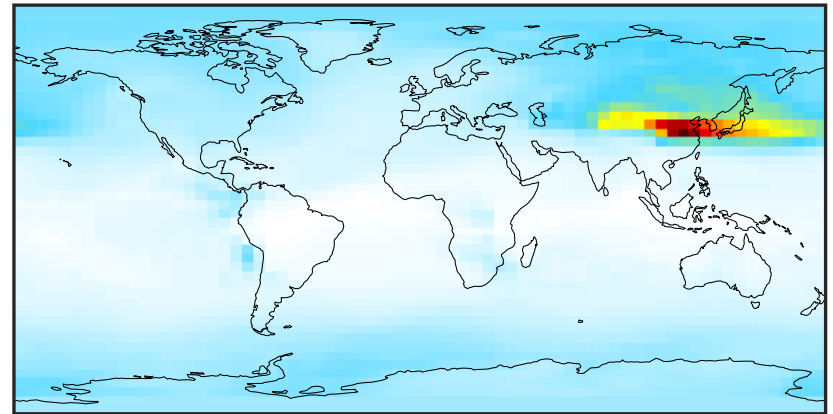
SpeciesConcVV_SO4 (Jan2019)

14.2.0-rc.2 (Ref)
4.0x5.0



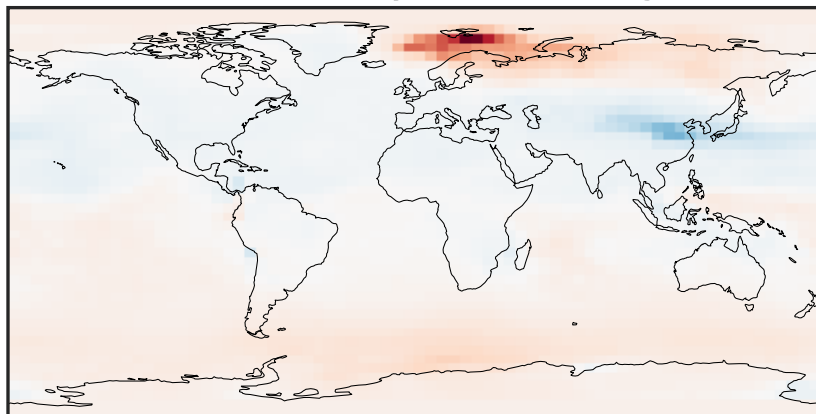
0.0056 0.2048 0.4040 0.6032 0.8024
 $\mu\text{g}/\text{m}^3$

14.3.0-rc.0 (Dev)
4.0x5.0



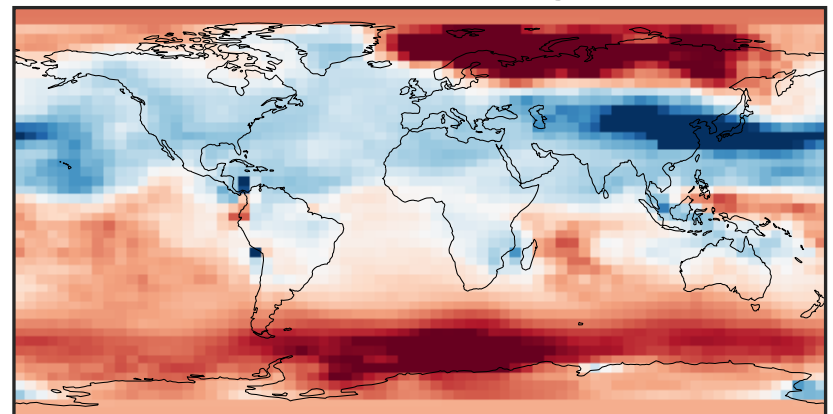
0.0056 0.2048 0.4040 0.6032 0.8024
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



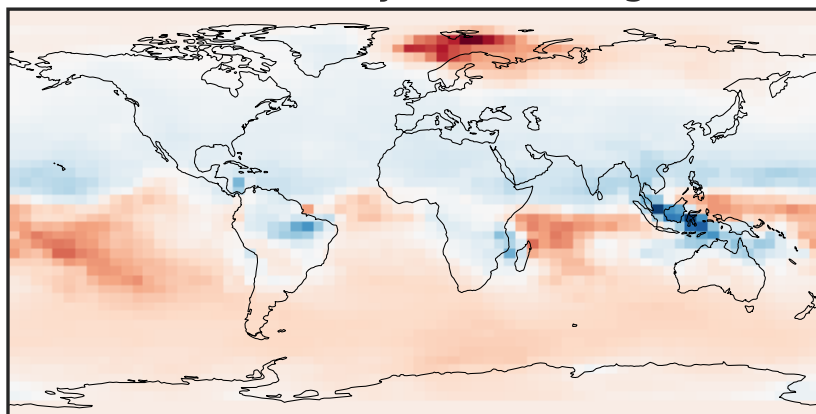
-0.0025 0.0000 0.0025
 $\mu\text{g}/\text{m}^3$

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



-0.0003 0.0000 0.0003
 $\mu\text{g}/\text{m}^3$

Ratio
Dev/Ref, Dynamic Range



0.97297 0.98648 1.00000 1.01389 1.02778
unitless

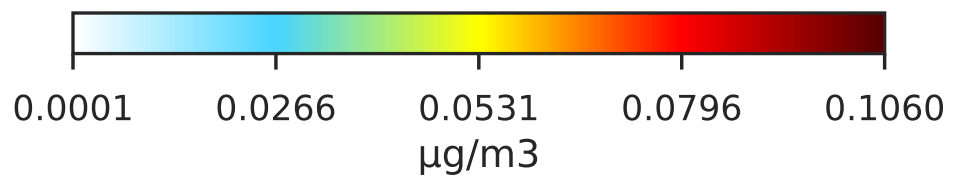
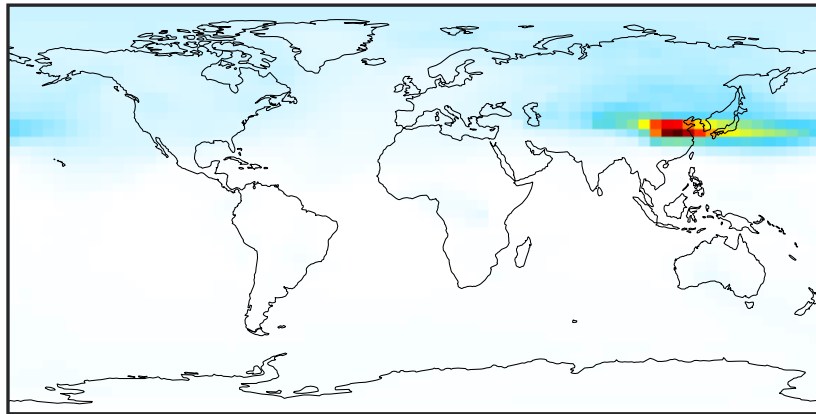
Ratio
Dev/Ref, Fixed Range



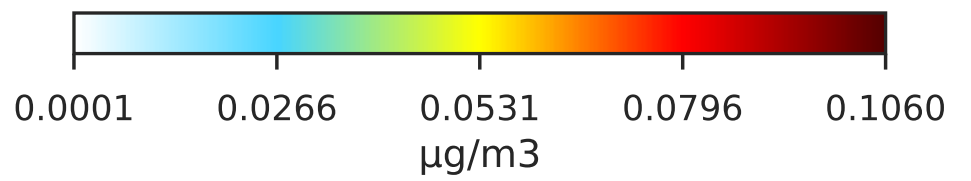
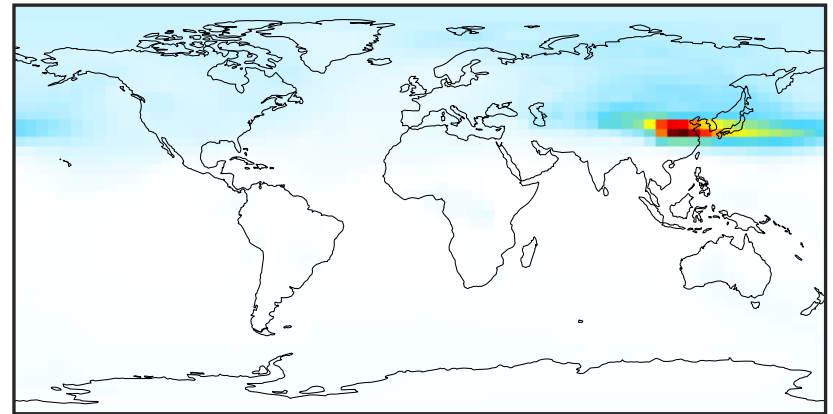
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_HMS (Jan2019)

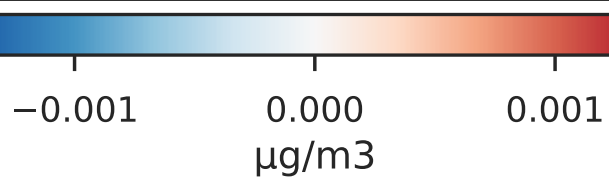
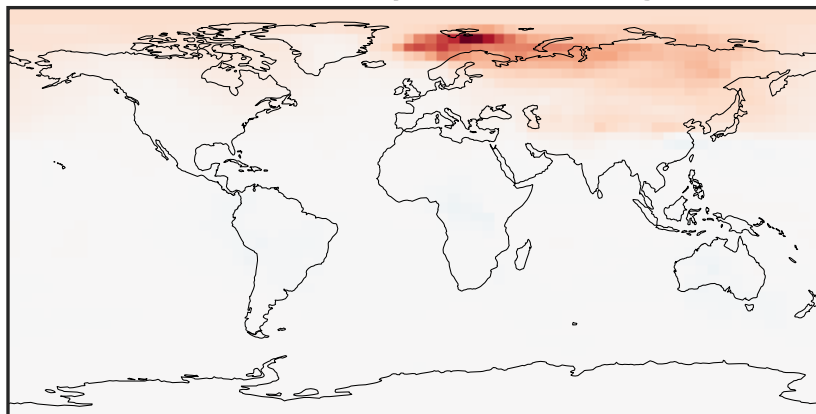
14.2.0-rc.2 (Ref)
4.0x5.0



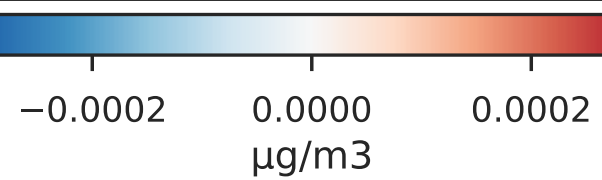
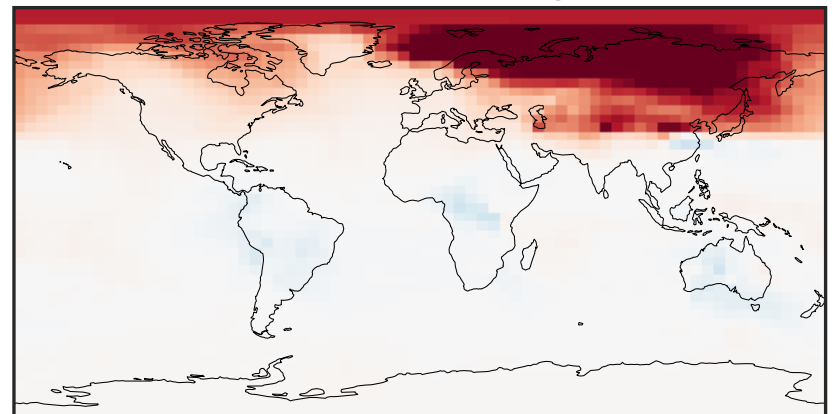
14.3.0-rc.0 (Dev)
4.0x5.0



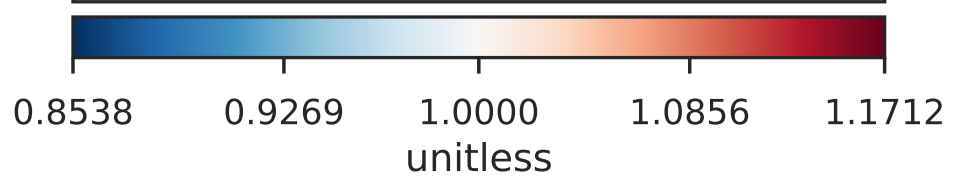
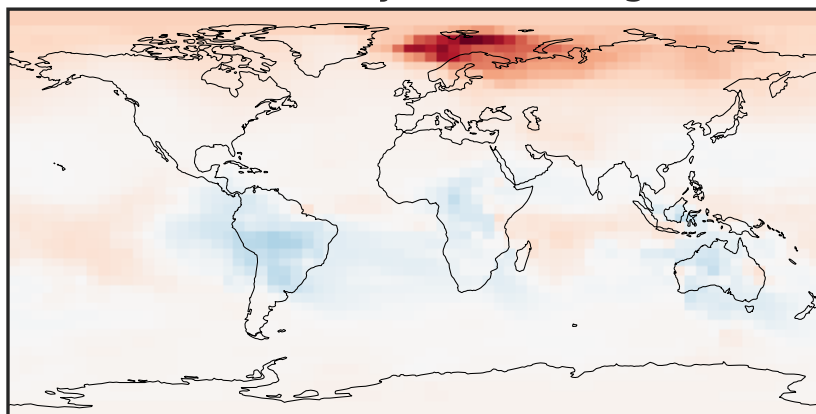
Difference
Dev - Ref, Dynamic Range



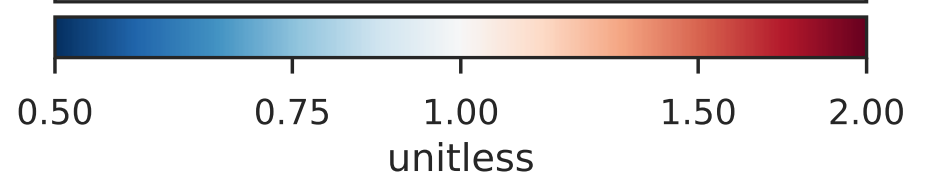
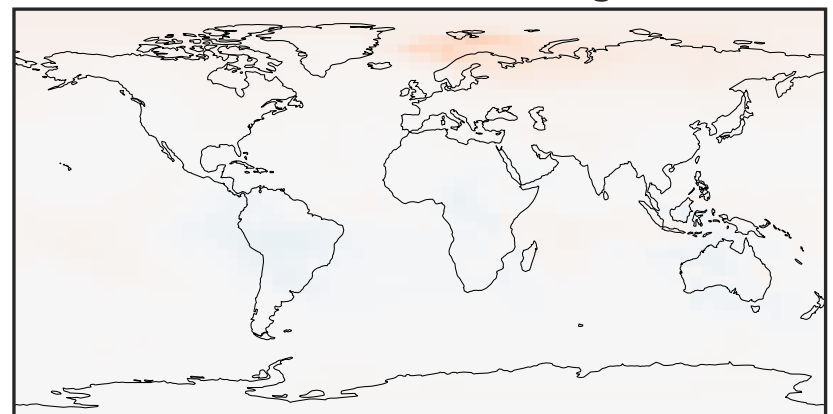
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

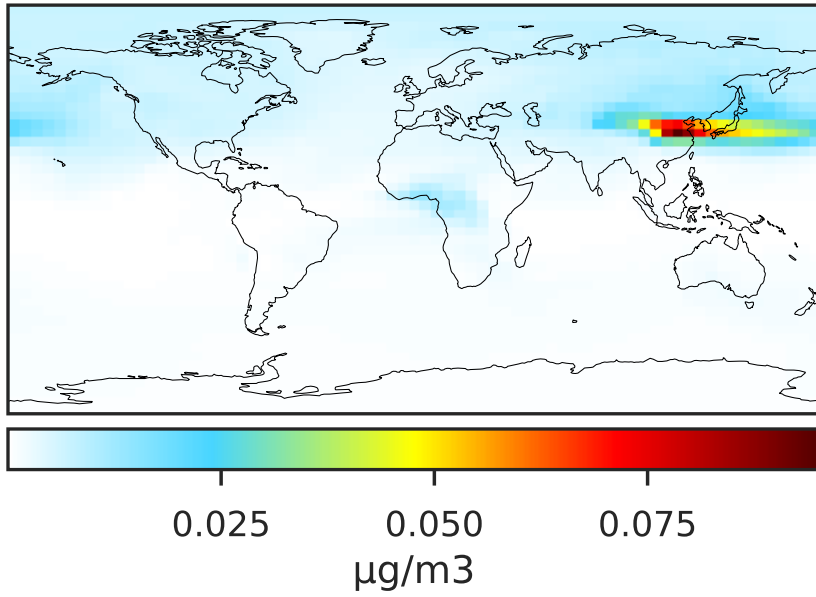


Ratio
Dev/Ref, Fixed Range

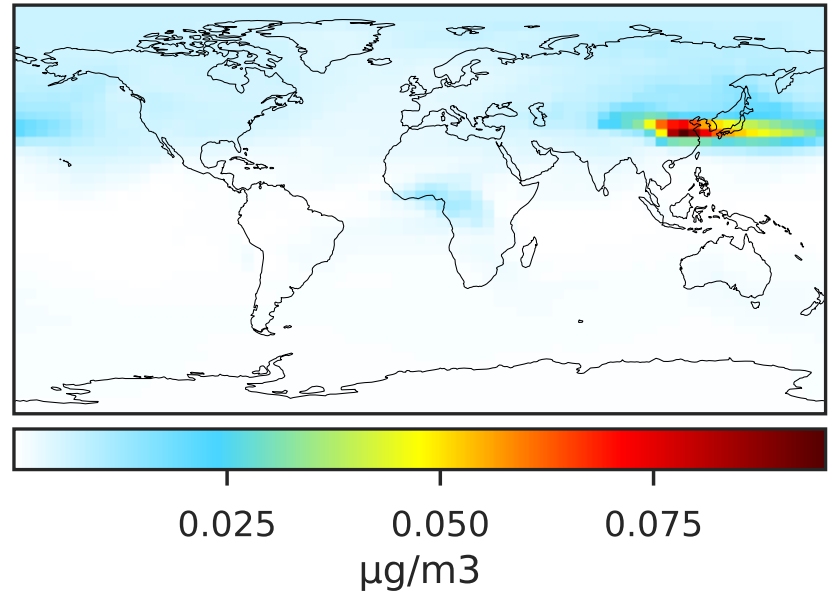


SpeciesConcVV_BCPI (Jan2019)

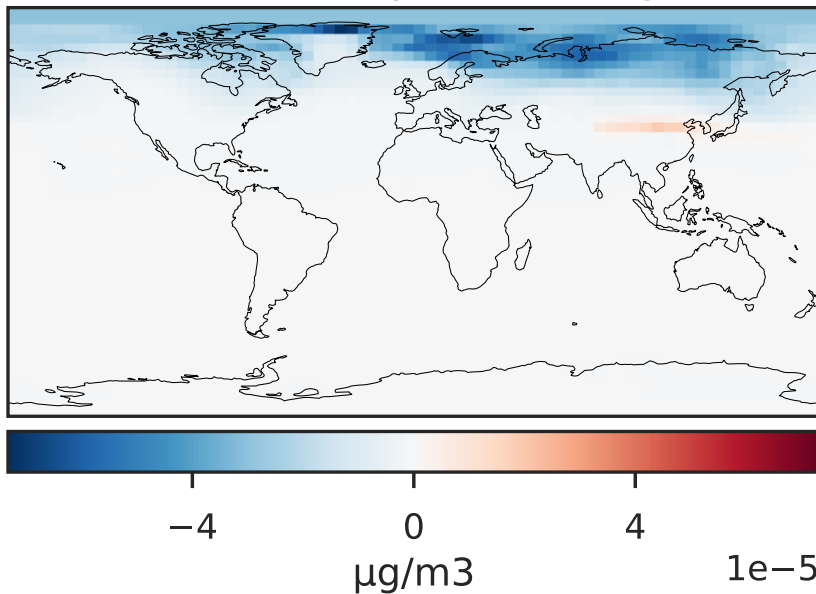
14.2.0-rc.2 (Ref)
4.0x5.0



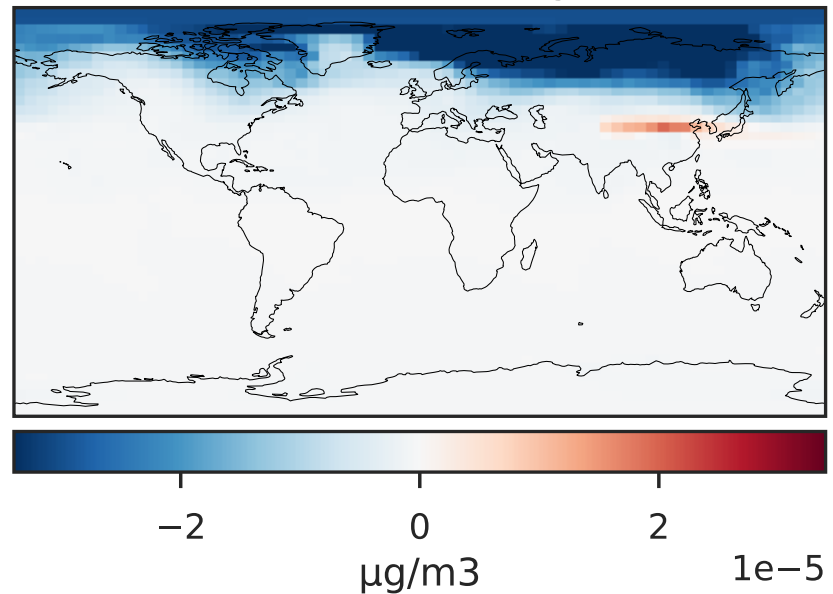
14.3.0-rc.0 (Dev)
4.0x5.0



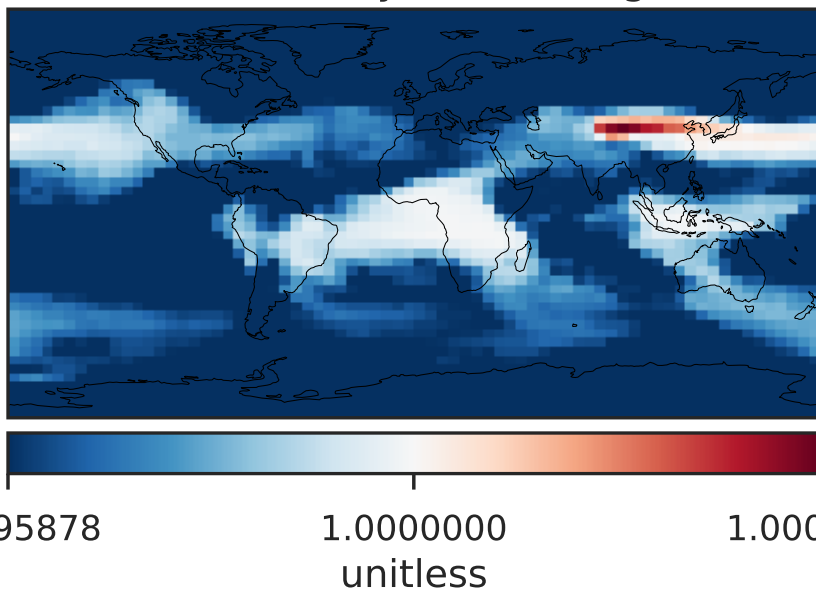
Difference
Dev - Ref, Dynamic Range



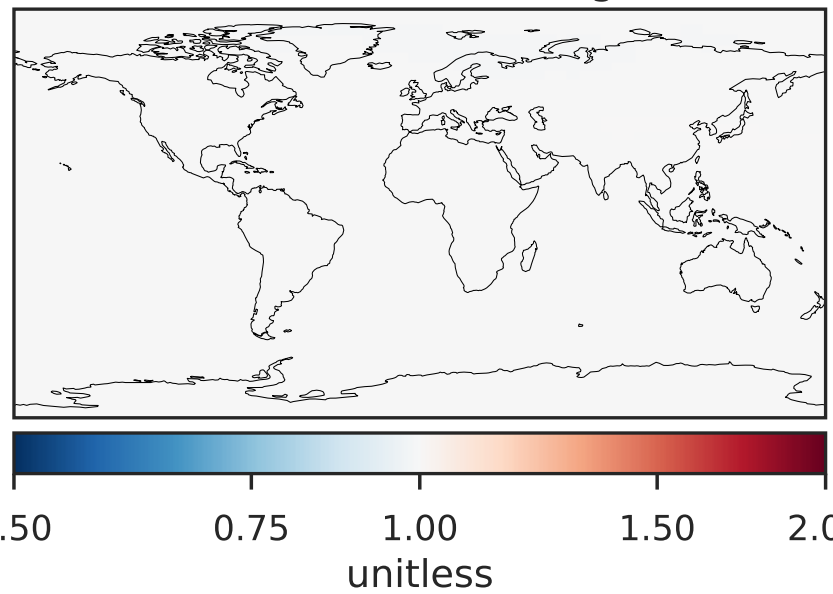
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

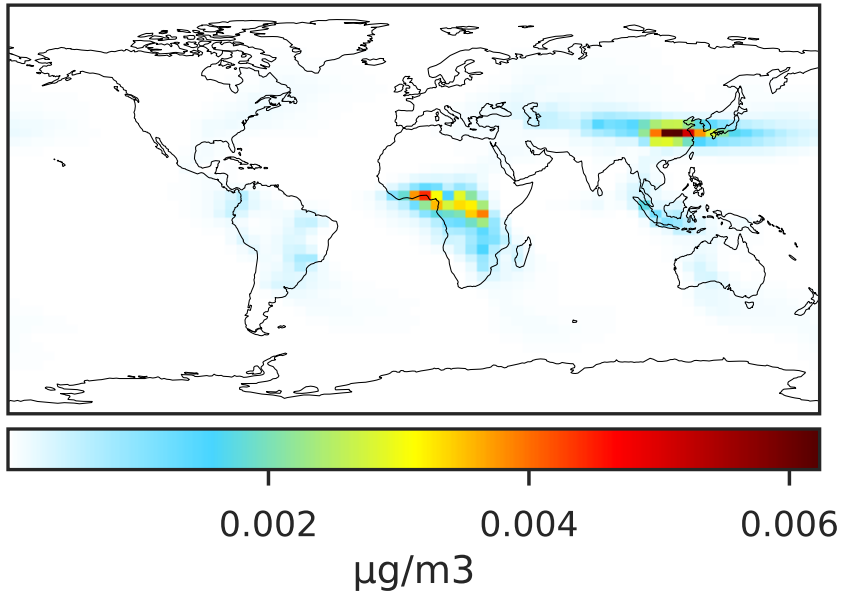


Ratio
Dev/Ref, Fixed Range

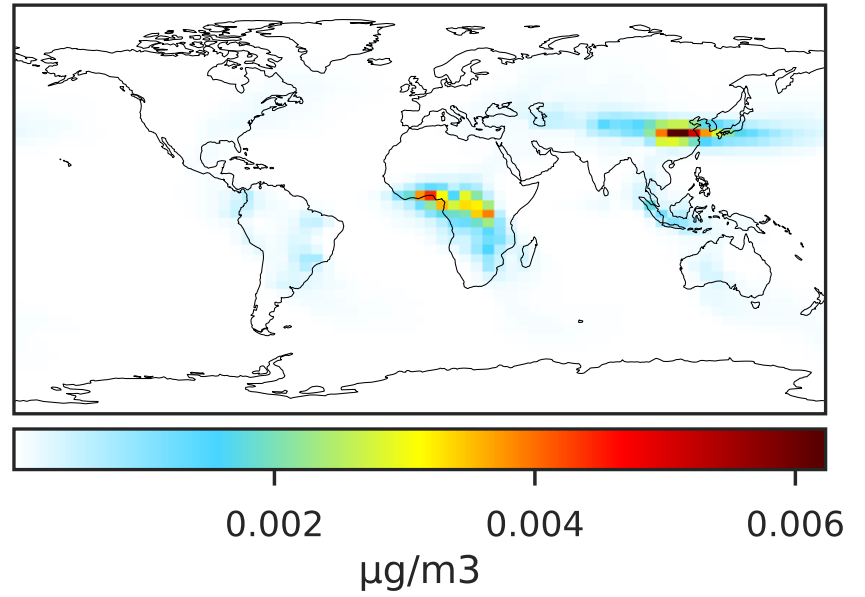


SpeciesConcVV_BCPO (Jan2019)

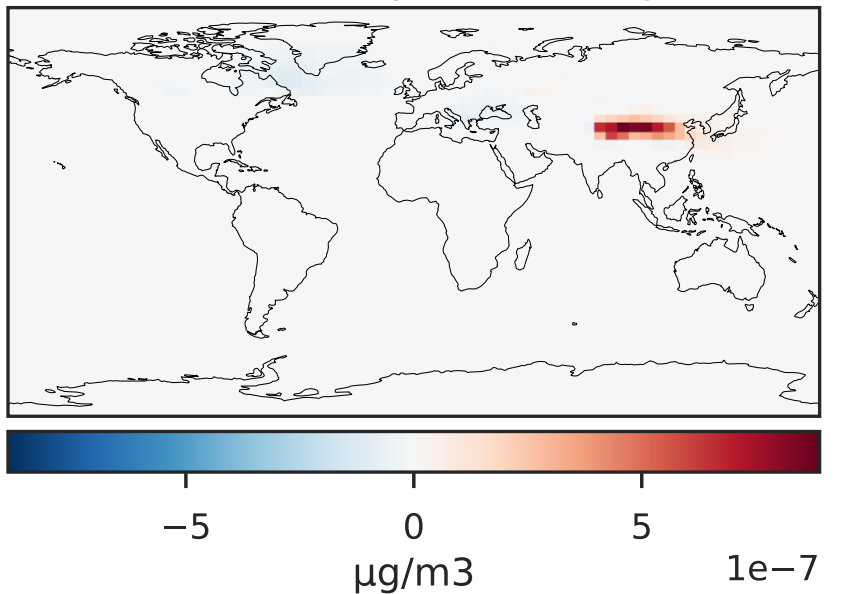
14.2.0-rc.2 (Ref)
4.0x5.0



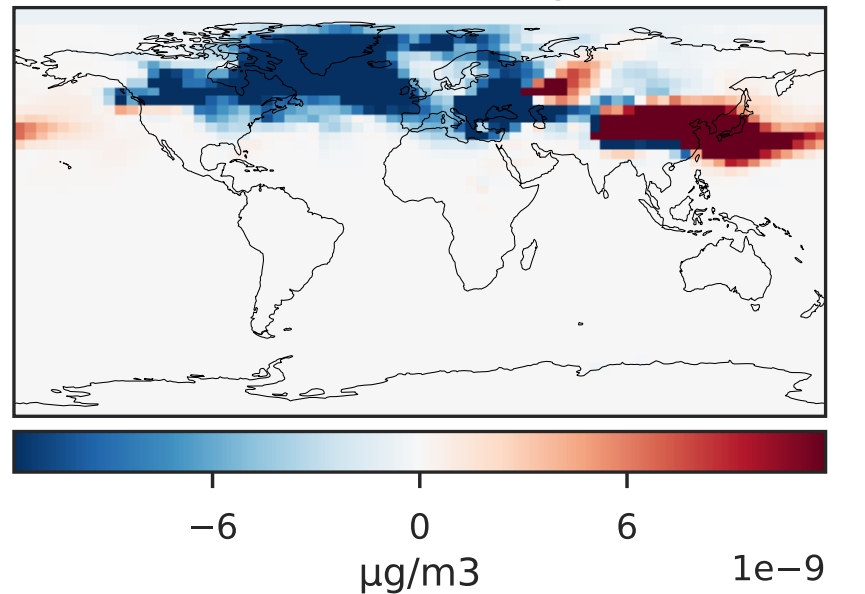
14.3.0-rc.0 (Dev)
4.0x5.0



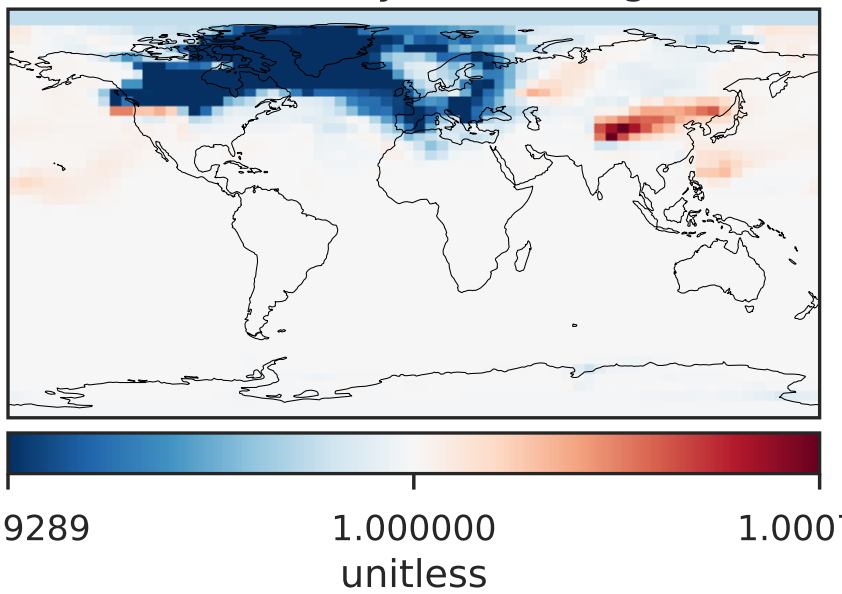
Difference
Dev - Ref, Dynamic Range



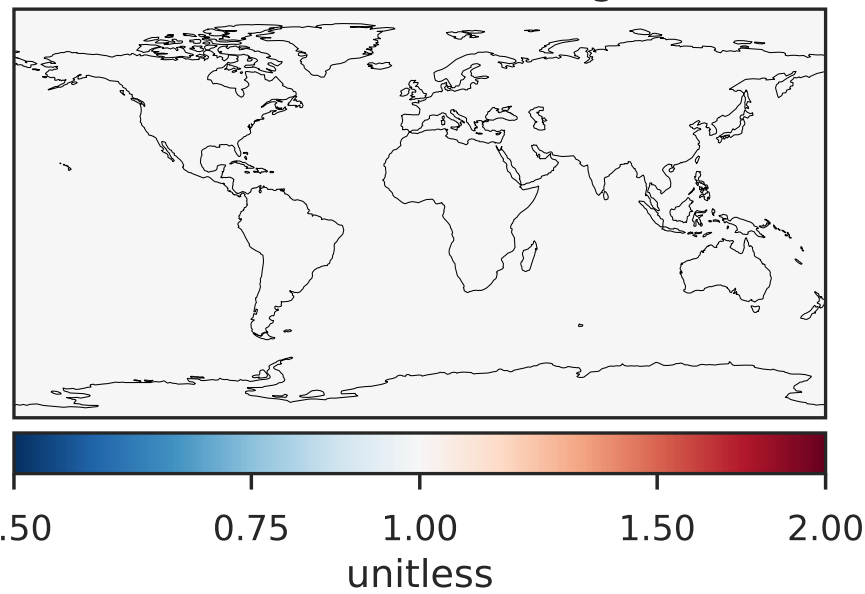
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

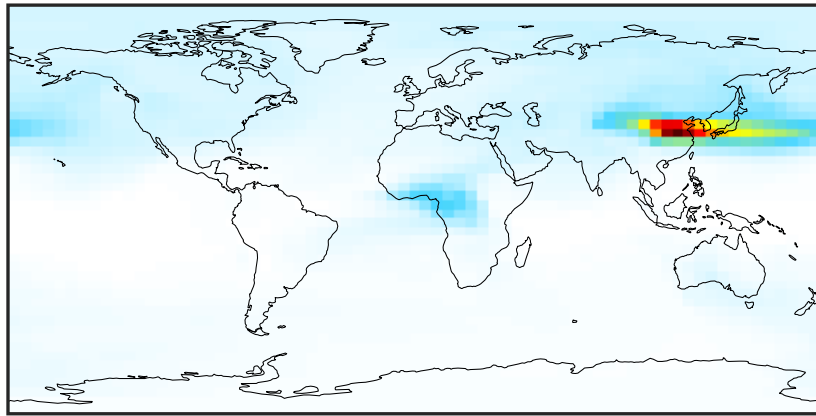


Ratio
Dev/Ref, Fixed Range



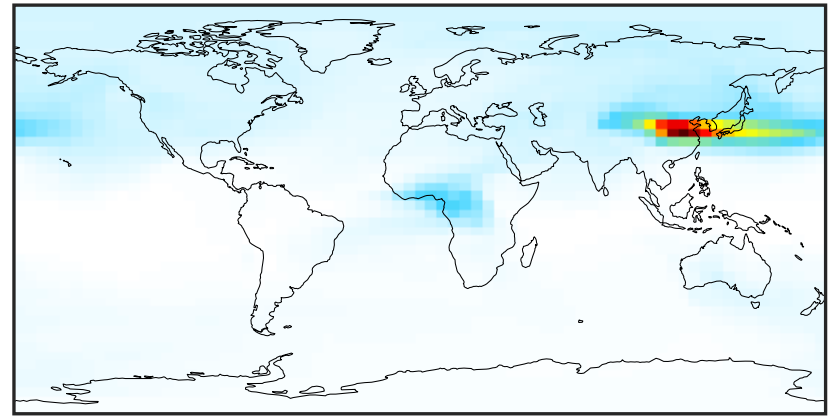
SpeciesConcVW_OCPI (Jan2019)

14.2.0-rc.2 (Ref)
4.0x5.0



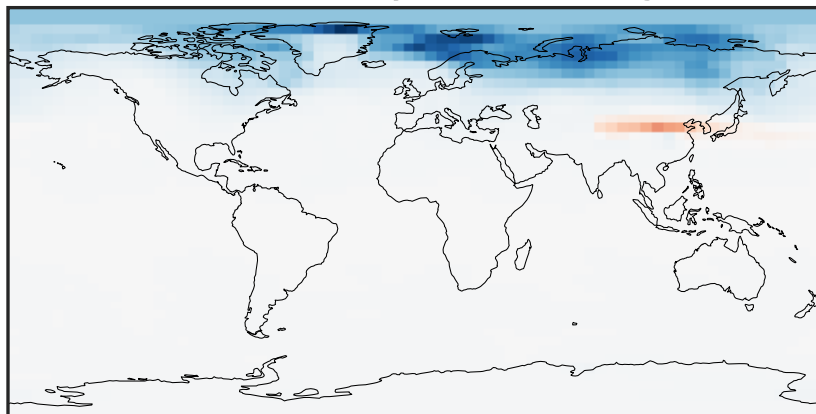
0.0000 0.0622 0.1244 0.1865 0.2487
µg/m3

14.3.0-rc.0 (Dev)
4.0x5.0



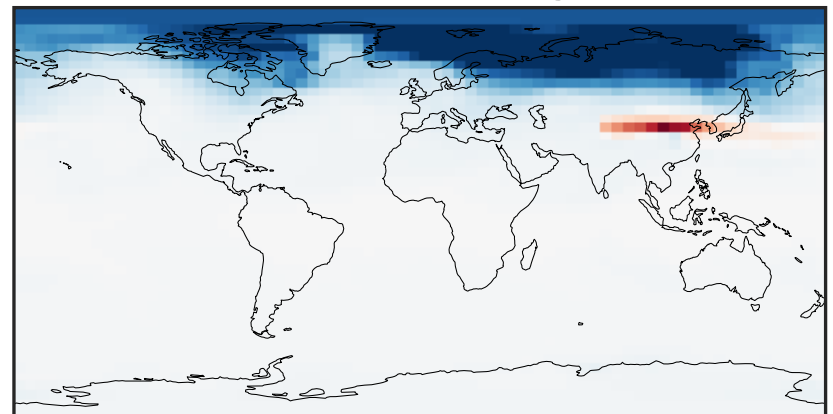
0.0000 0.0622 0.1244 0.1865 0.2487
µg/m3

Difference
Dev - Ref, Dynamic Range



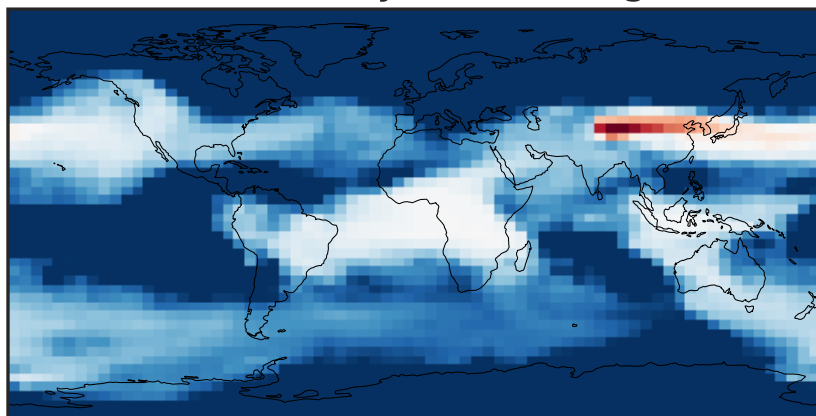
-8 0 8
µg/m3 1e-5

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



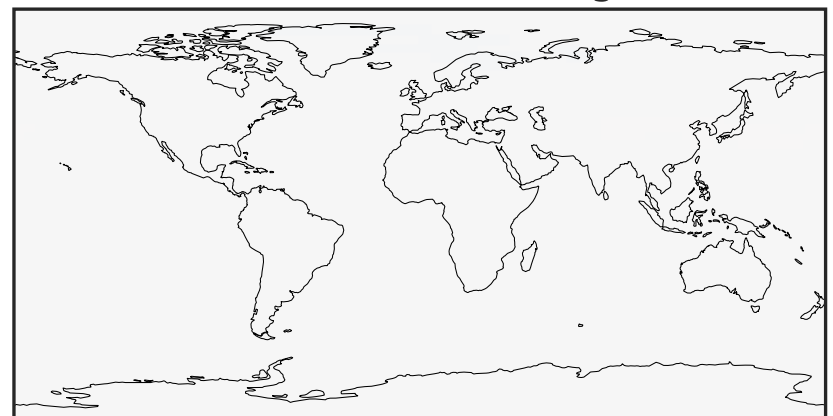
-3 0 3
µg/m3 1e-5

Ratio
Dev/Ref, Dynamic Range



0.9995208 1.000000 1.0004795
unitless

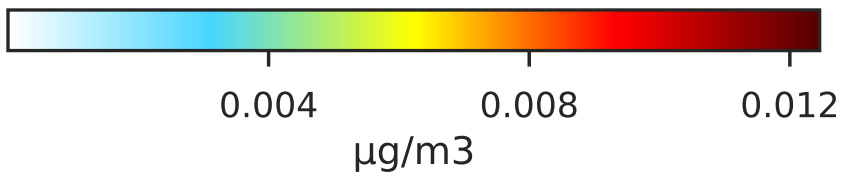
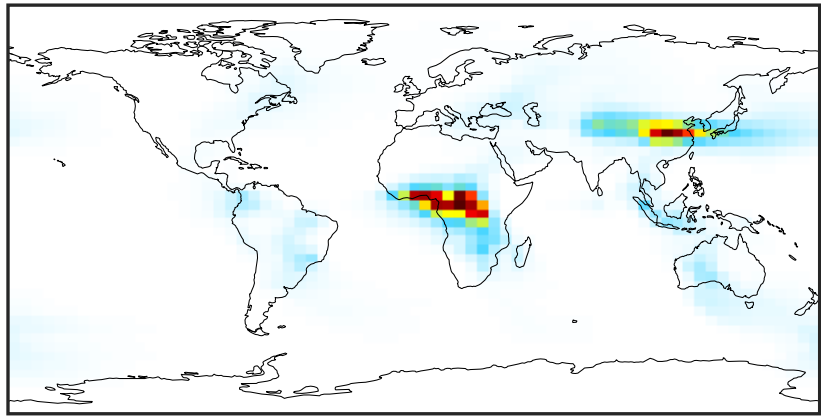
Ratio
Dev/Ref, Fixed Range



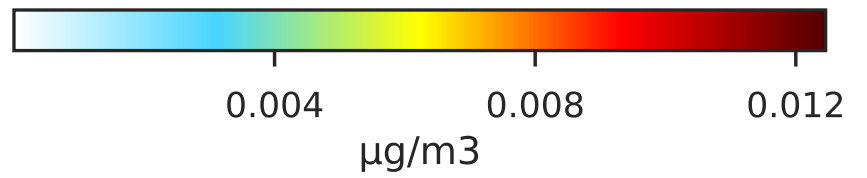
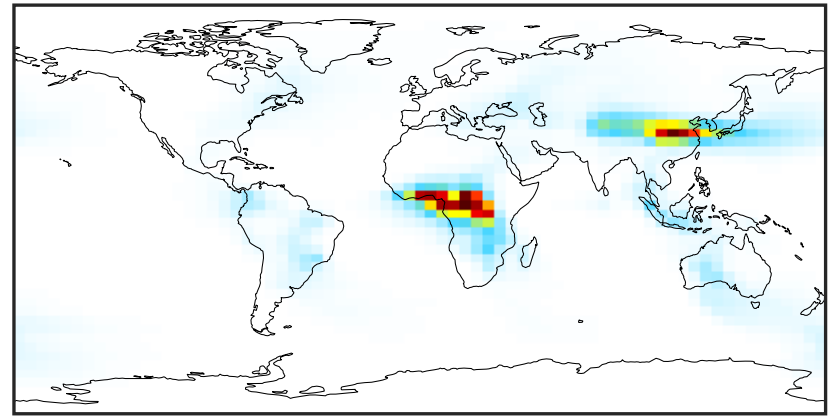
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_OCPO (Jan2019)

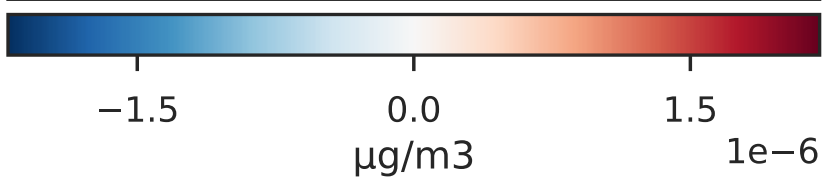
14.2.0-rc.2 (Ref)
4.0x5.0



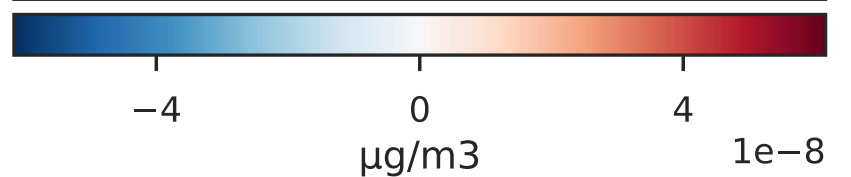
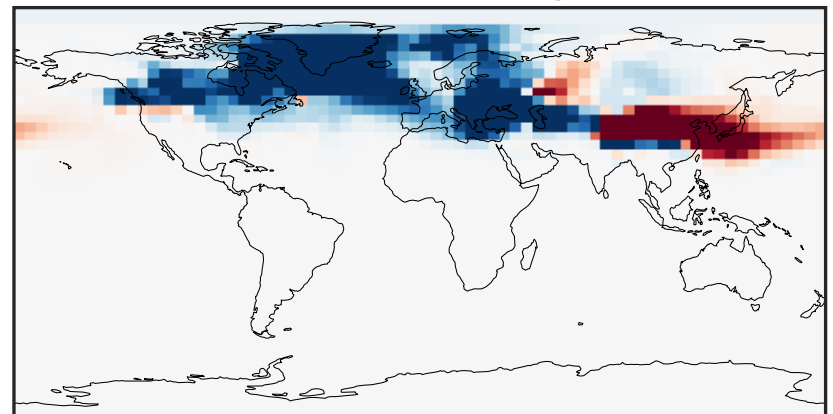
14.3.0-rc.0 (Dev)
4.0x5.0



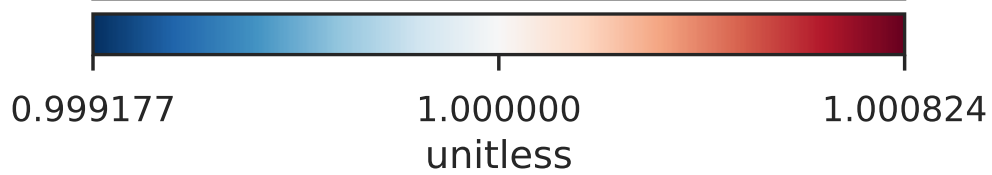
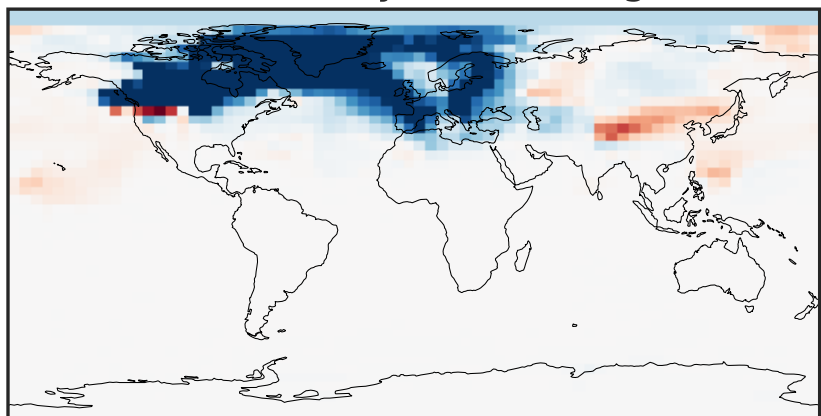
Difference
Dev - Ref, Dynamic Range



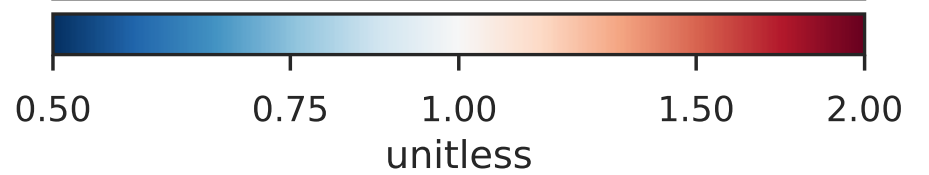
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

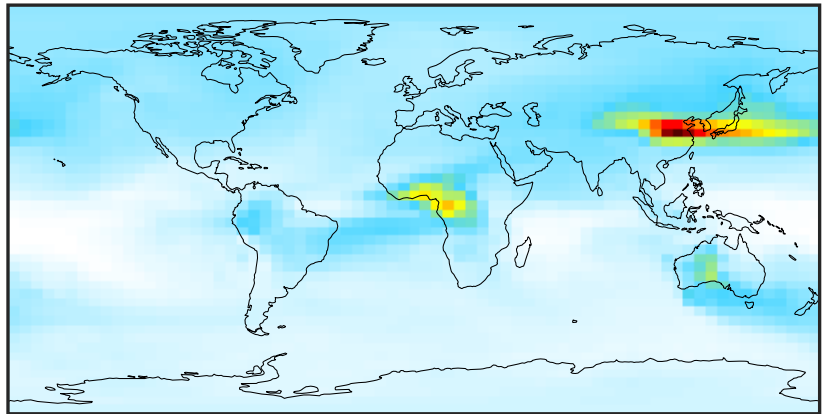


Ratio
Dev/Ref, Fixed Range



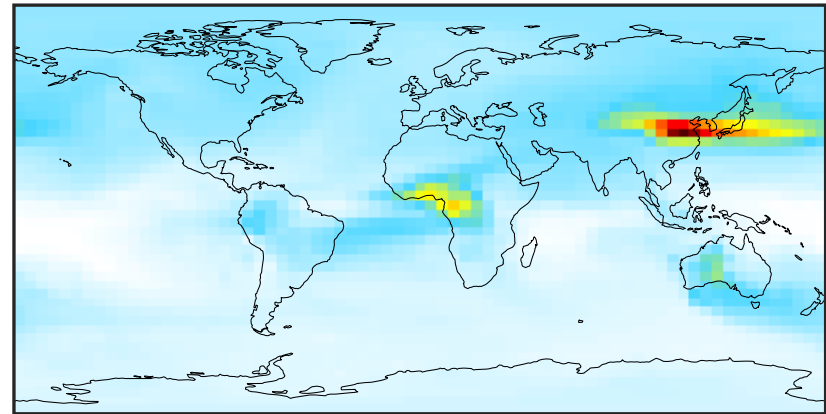
SpeciesConcVV_Complex_SOA (Jan2019)

14.2.0-rc.2 (Ref)
4.0x5.0



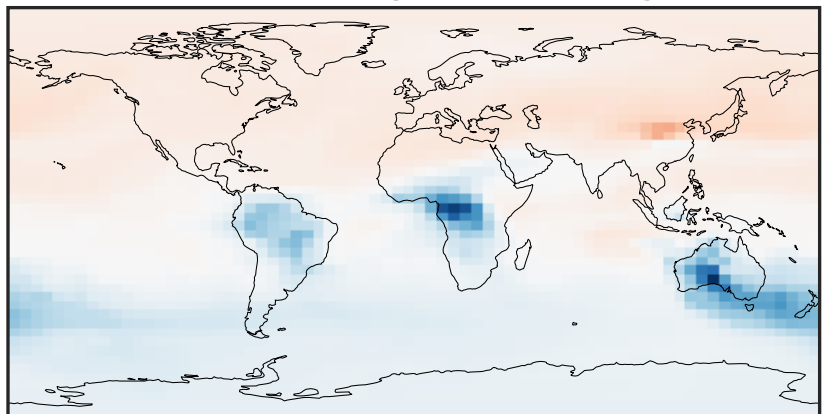
0.02 0.04 0.06
 $\mu\text{g}/\text{m}^3$

14.3.0-rc.0 (Dev)
4.0x5.0



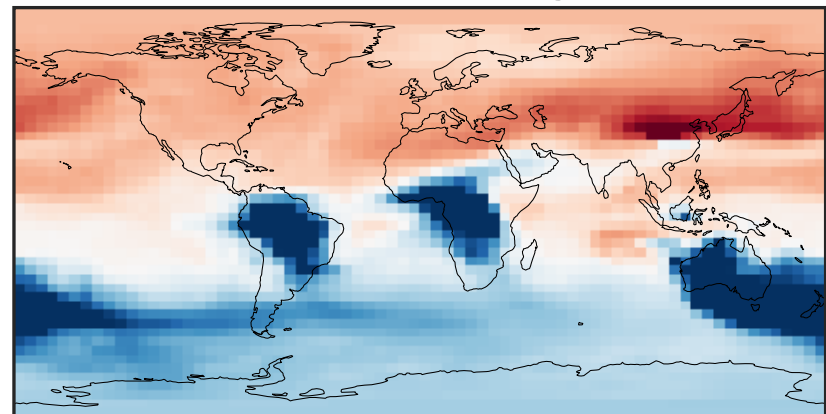
0.02 0.04 0.06
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



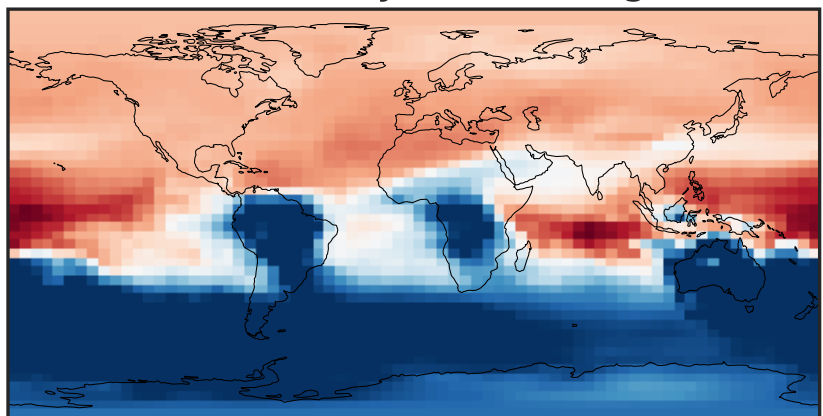
-0.0008 0.0000 0.0008
 $\mu\text{g}/\text{m}^3$

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



-0.0002 0.0000 0.0002
 $\mu\text{g}/\text{m}^3$

Ratio
Dev/Ref, Dynamic Range



0.96630 0.98315 1.00000 1.01744 1.03488
unitless

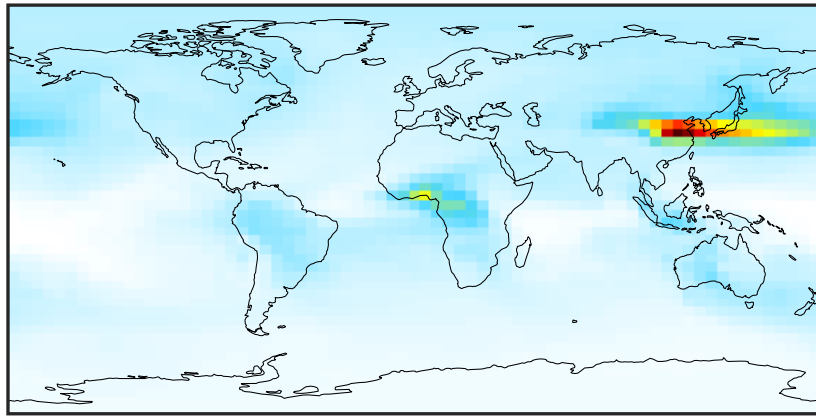
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

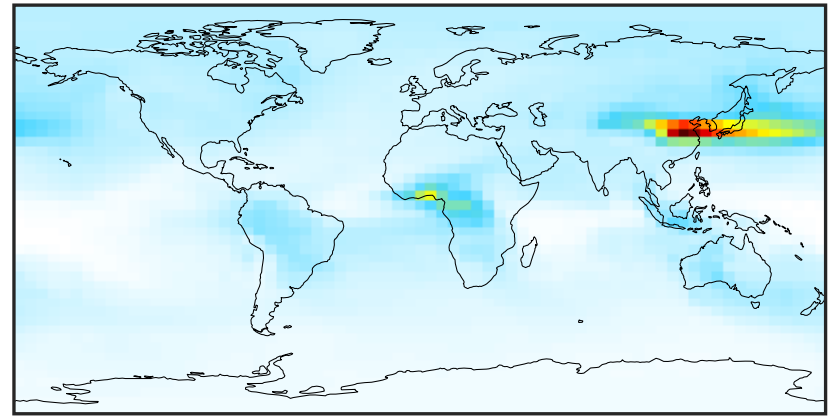
SpeciesConcVV_Simple_SOA (Jan2019)

14.2.0-rc.2 (Ref)
4.0x5.0



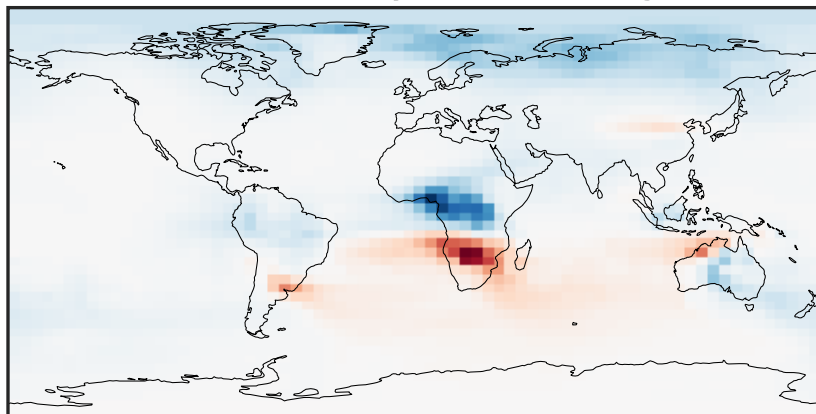
0.0012 0.1901 0.3790 0.5678 0.7567
 $\mu\text{g}/\text{m}^3$

14.3.0-rc.0 (Dev)
4.0x5.0



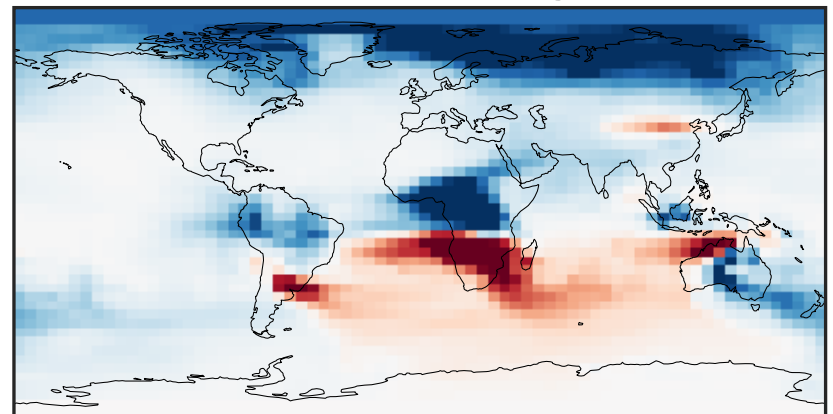
0.0012 0.1901 0.3790 0.5678 0.7567
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



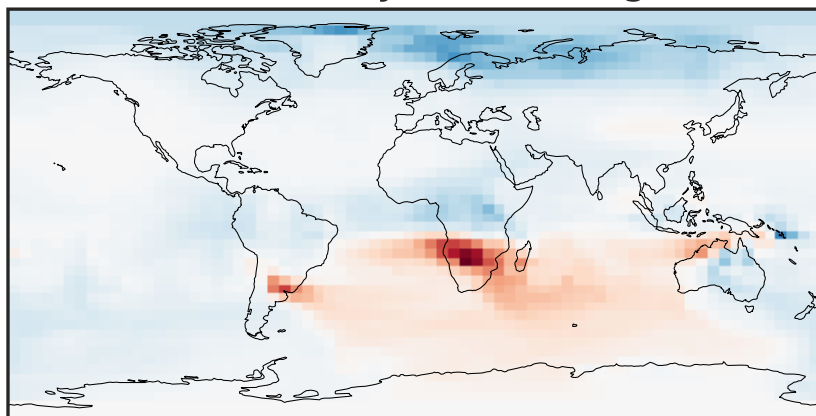
-0.0005 0.0000 0.0005
 $\mu\text{g}/\text{m}^3$

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



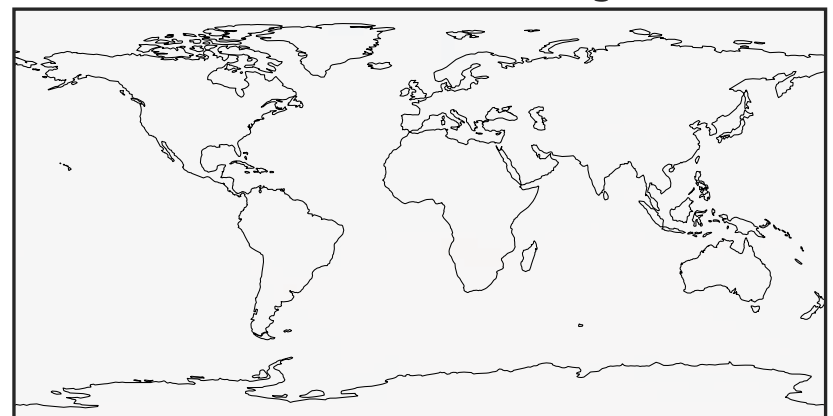
-0.00015 0.00000 0.00015
 $\mu\text{g}/\text{m}^3$

Ratio
Dev/Ref, Dynamic Range



0.98975 0.99488 1.00000 1.00518 1.01036
unitless

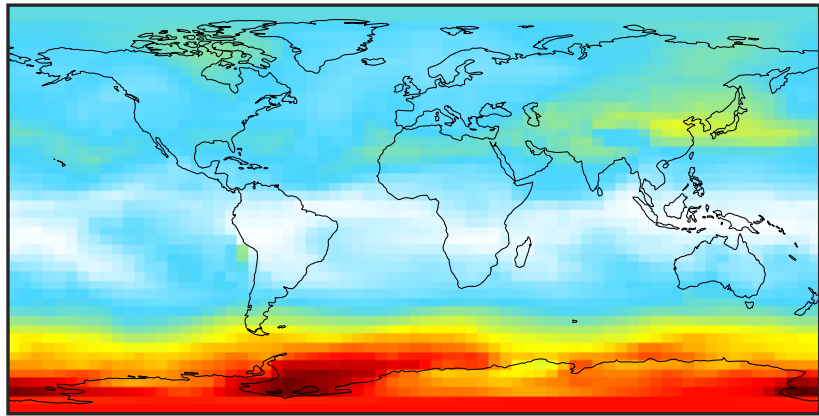
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

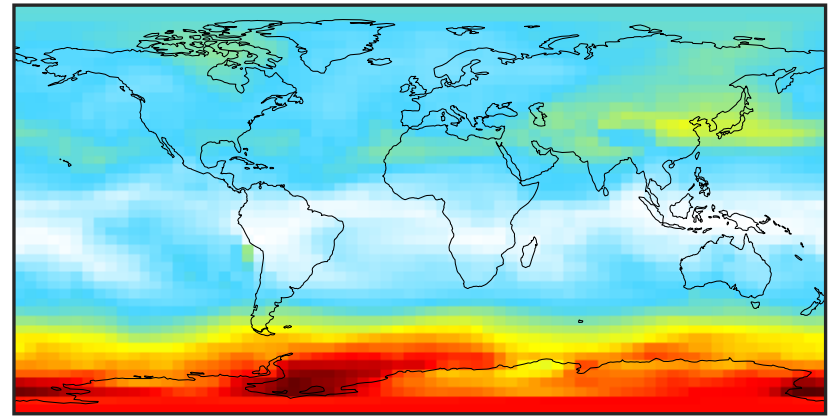
SpeciesConcVV_AERI (Jan2019)

14.2.0-rc.2 (Ref)
4.0x5.0



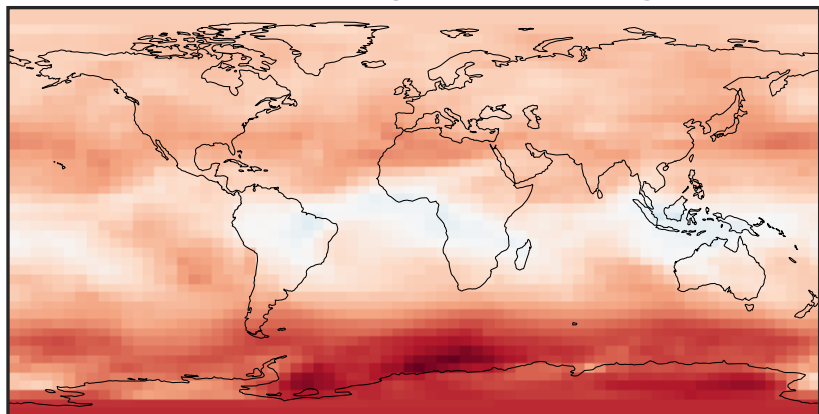
0.0004 0.0008 0.0012
 $\mu\text{g}/\text{m}^3$

14.3.0-rc.0 (Dev)
4.0x5.0



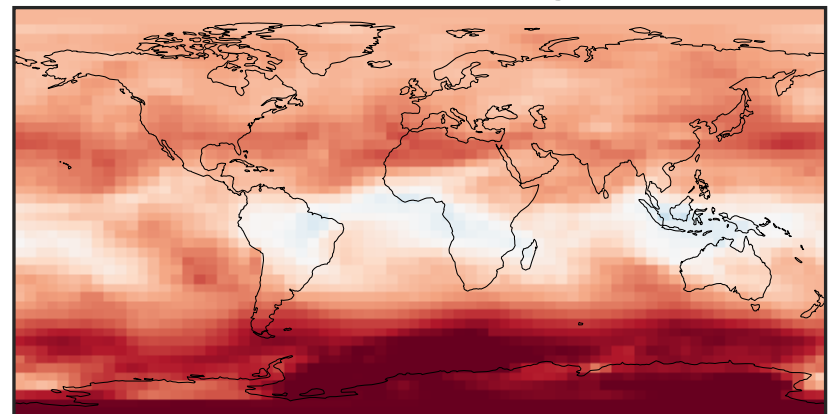
0.0004 0.0008 0.0012
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



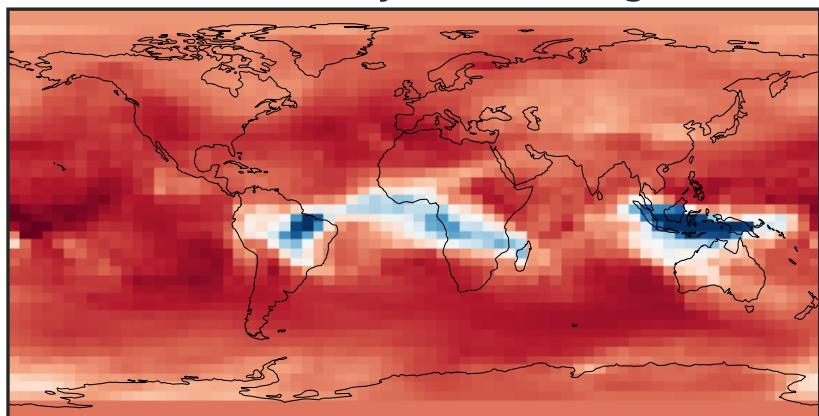
-8 0 8
 $\mu\text{g}/\text{m}^3$ $1\text{e}-6$

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



-5 0 5
 $\mu\text{g}/\text{m}^3$ $1\text{e}-6$

Ratio
Dev/Ref, Dynamic Range



0.98053 0.99026 1.00000 1.00993 1.01986
unitless

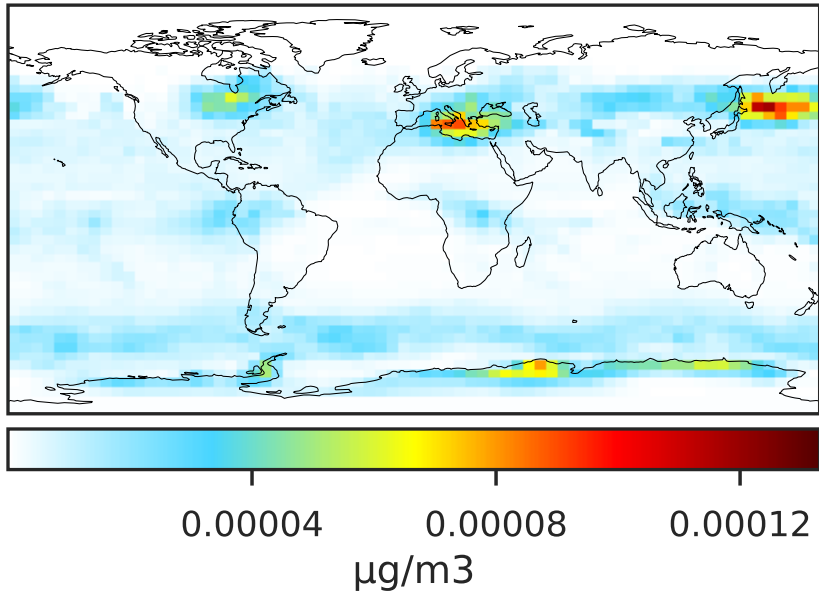
Ratio
Dev/Ref, Fixed Range



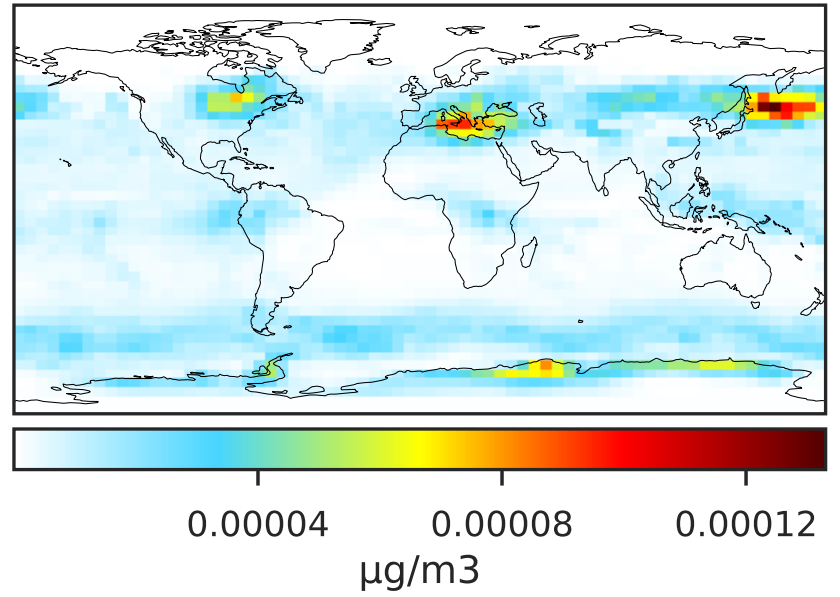
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_BrSALA (Jan2019)

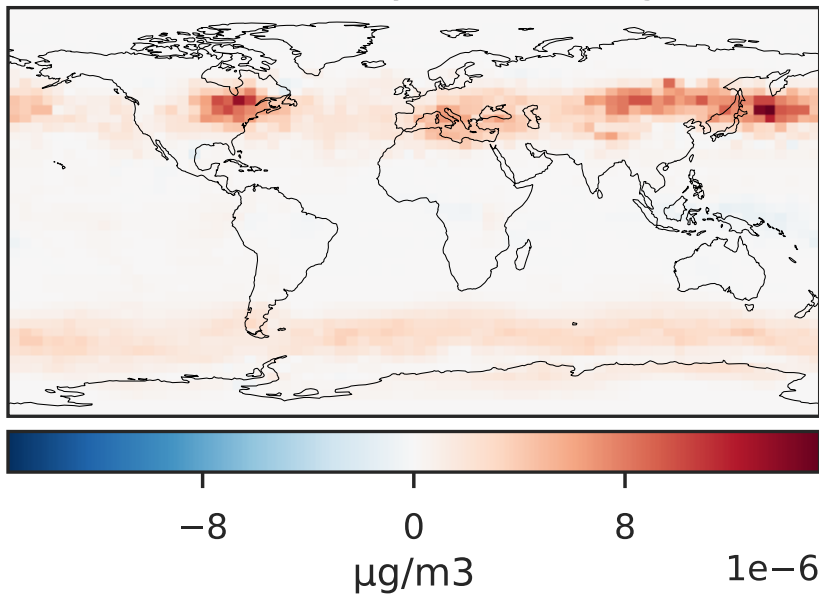
14.2.0-rc.2 (Ref)
4.0x5.0



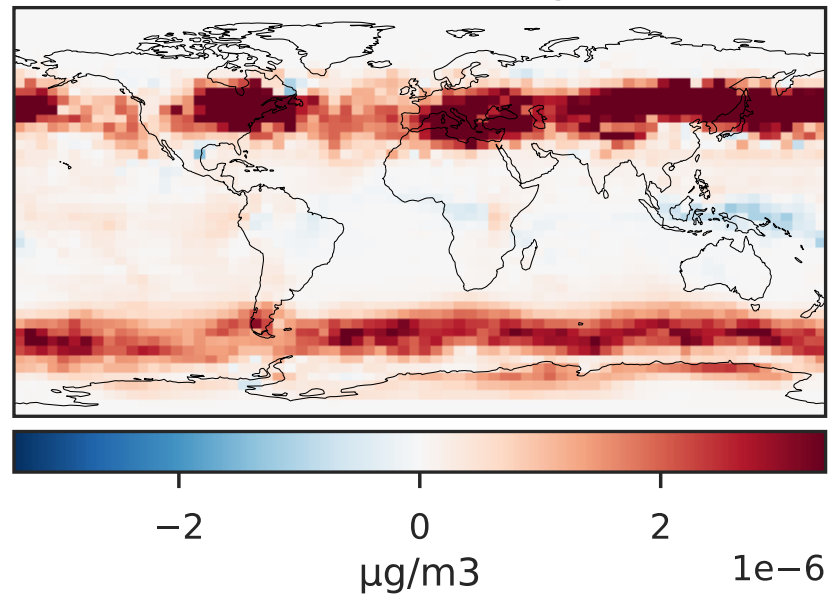
14.3.0-rc.0 (Dev)
4.0x5.0



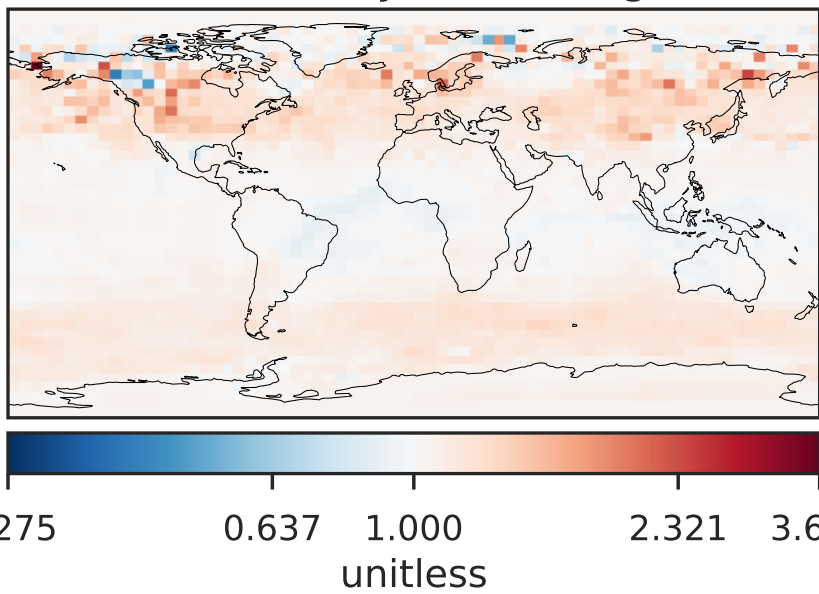
Difference
Dev - Ref, Dynamic Range



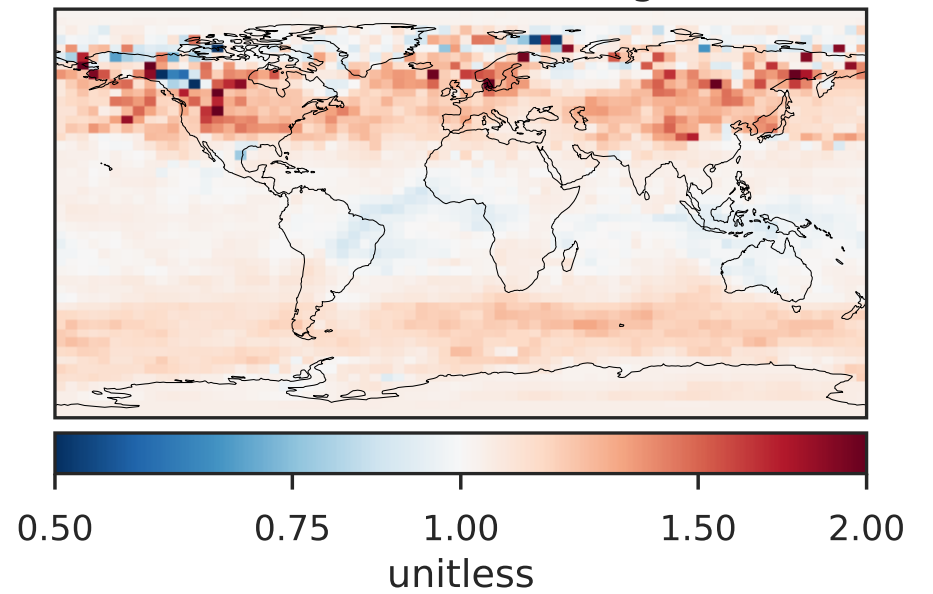
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

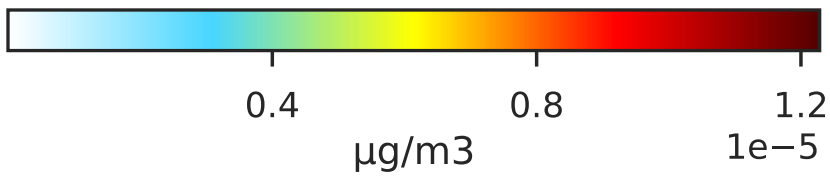
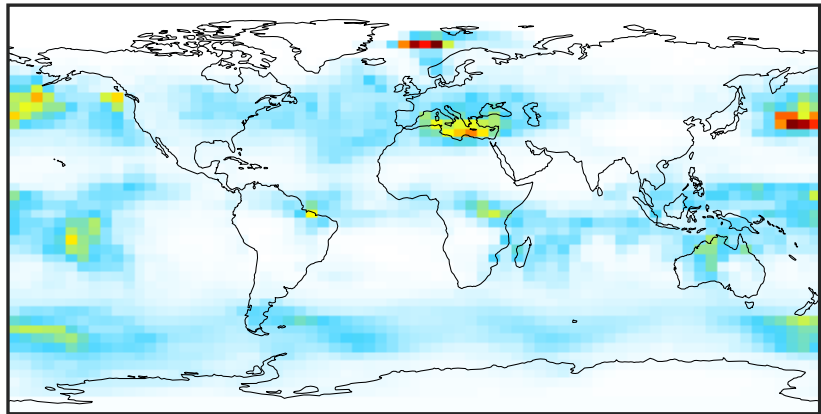


Ratio
Dev/Ref, Fixed Range

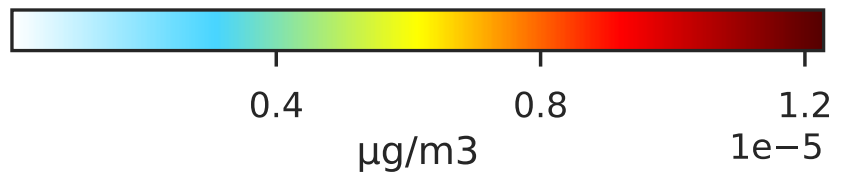
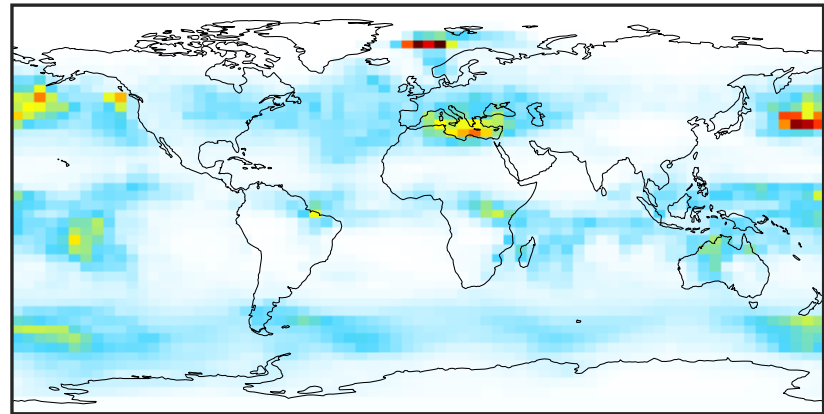


SpeciesConcVV_BrSALC (Jan2019)

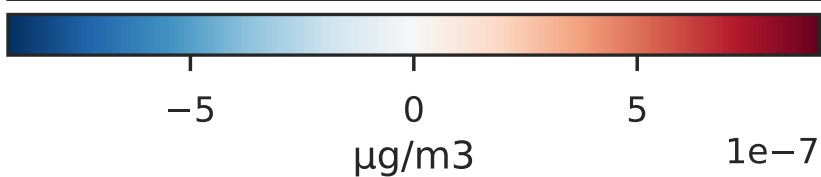
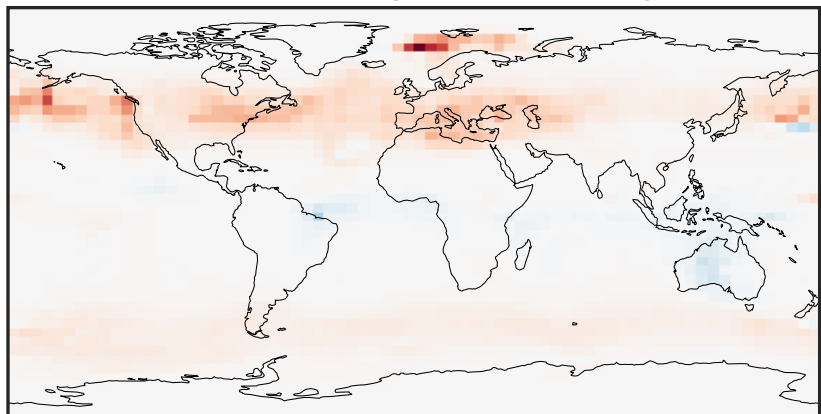
14.2.0-rc.2 (Ref)
4.0x5.0



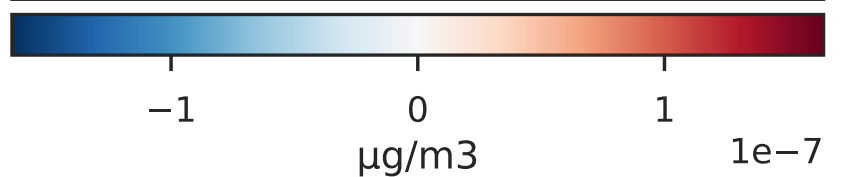
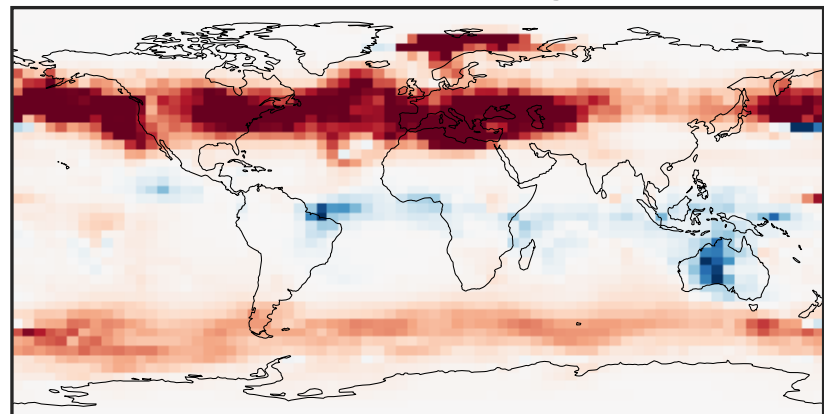
14.3.0-rc.0 (Dev)
4.0x5.0



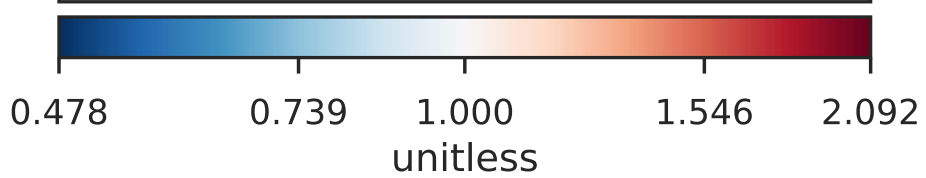
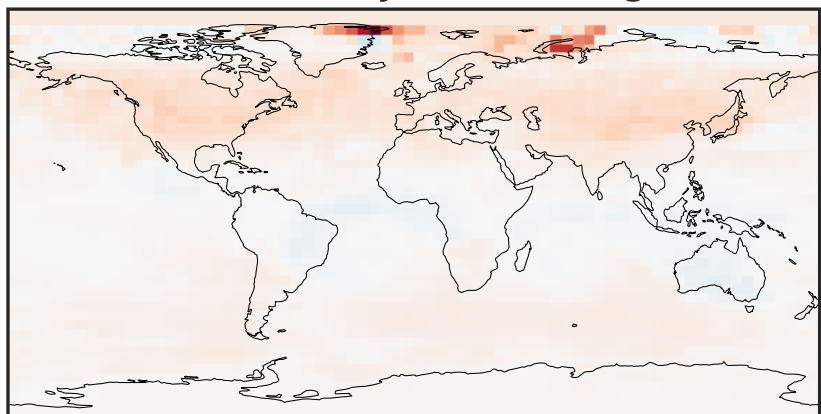
Difference
Dev - Ref, Dynamic Range



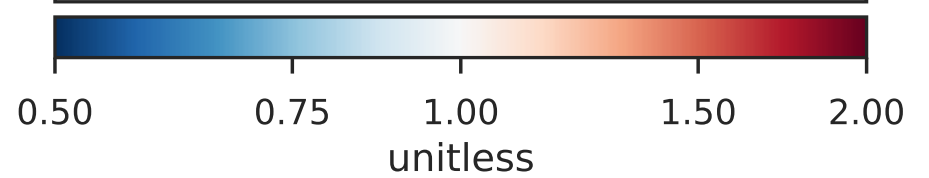
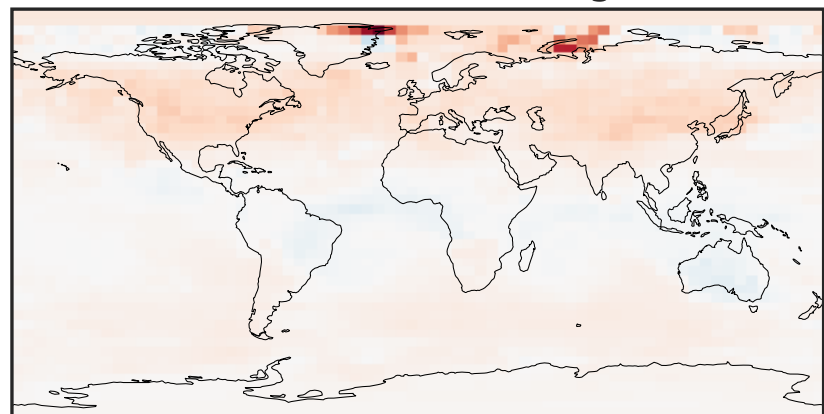
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

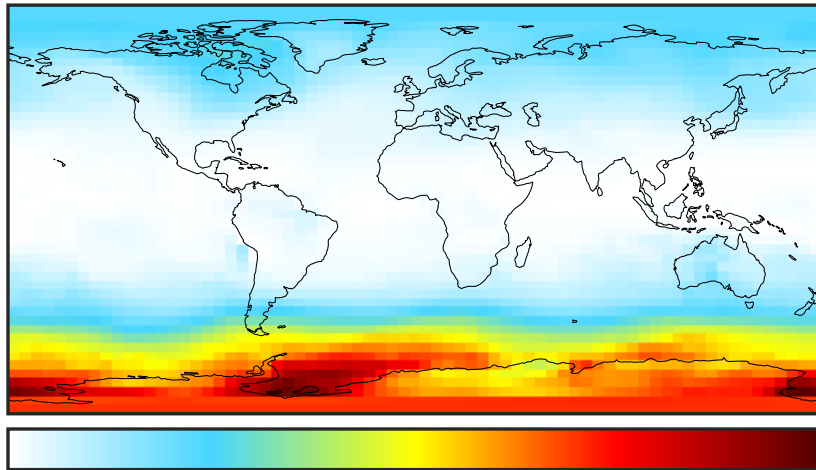


Ratio
Dev/Ref, Fixed Range



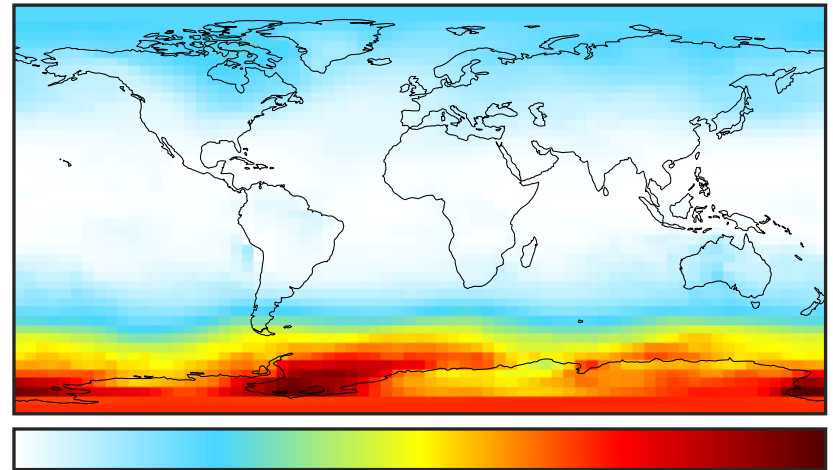
SpeciesConcVV_ISALA (Jan2019)

14.2.0-rc.2 (Ref)
4.0x5.0



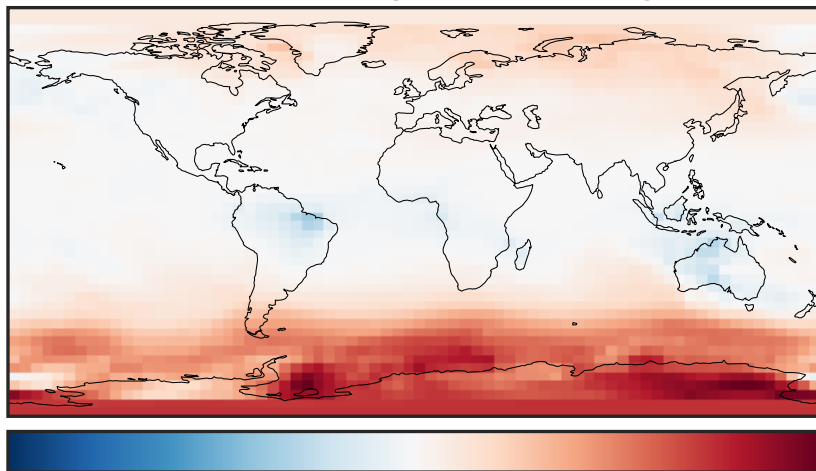
0.00006 0.00012 0.00018
 $\mu\text{g}/\text{m}^3$

14.3.0-rc.0 (Dev)
4.0x5.0



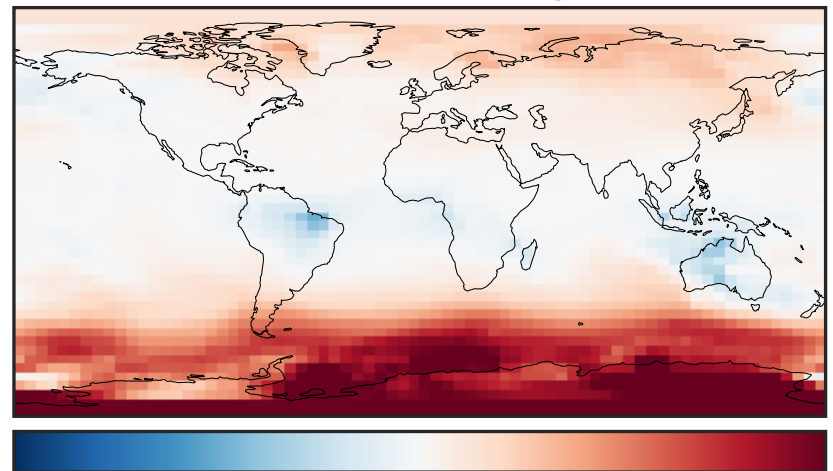
0.00006 0.00012 0.00018
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



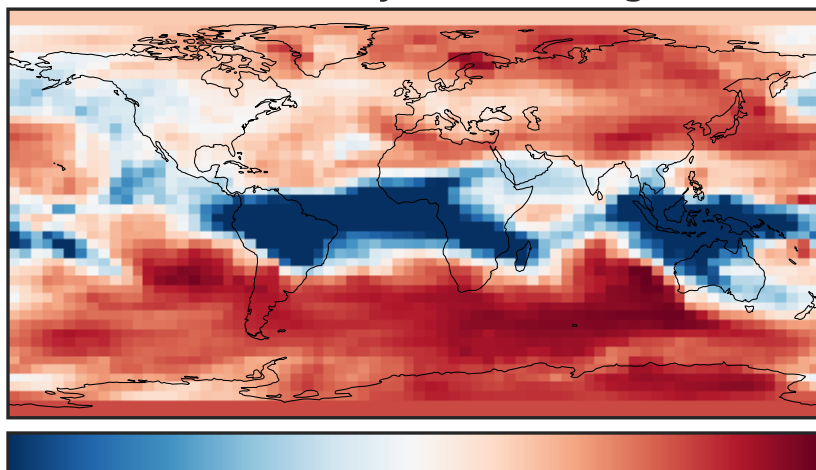
-8 0 8
 $\mu\text{g}/\text{m}^3$ $1\text{e}-7$

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



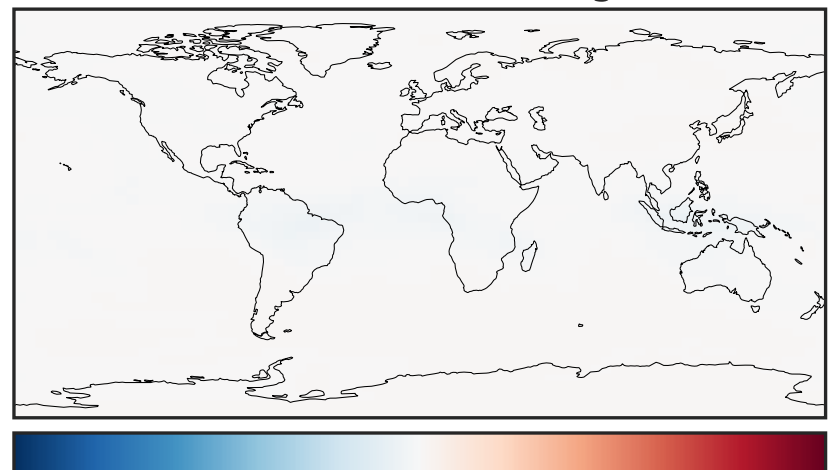
-6 0 6
 $\mu\text{g}/\text{m}^3$ $1\text{e}-7$

Ratio
Dev/Ref, Dynamic Range



0.99112 0.99556 1.00000 1.00448 1.00896
unitless

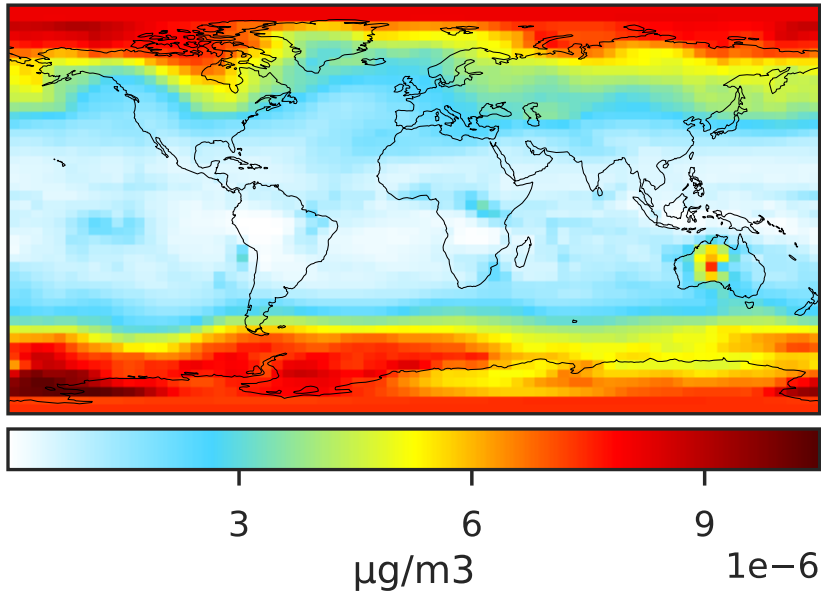
Ratio
Dev/Ref, Fixed Range



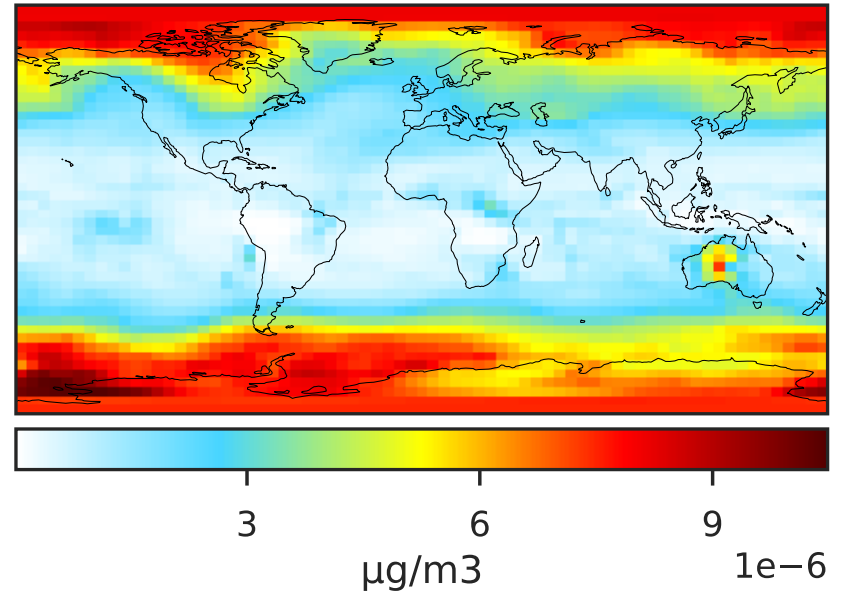
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_ISALC (Jan2019)

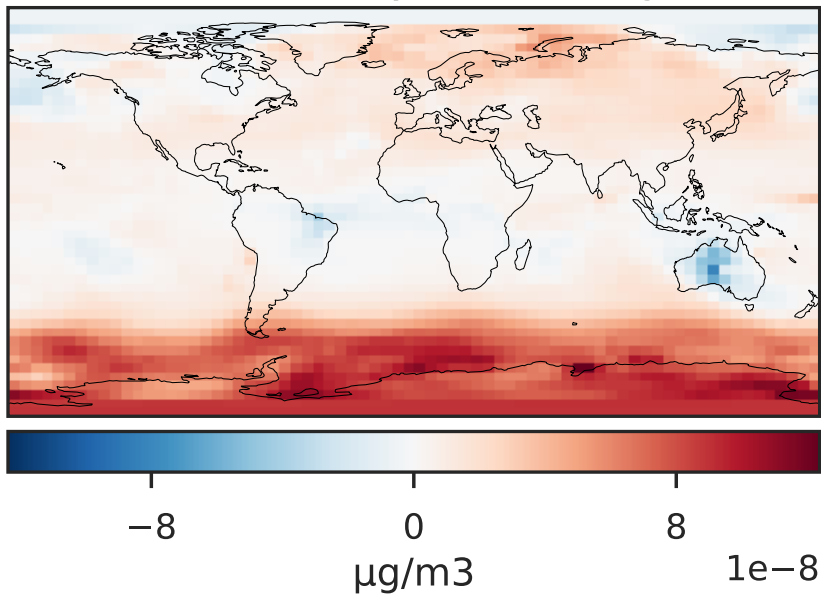
14.2.0-rc.2 (Ref)
4.0x5.0



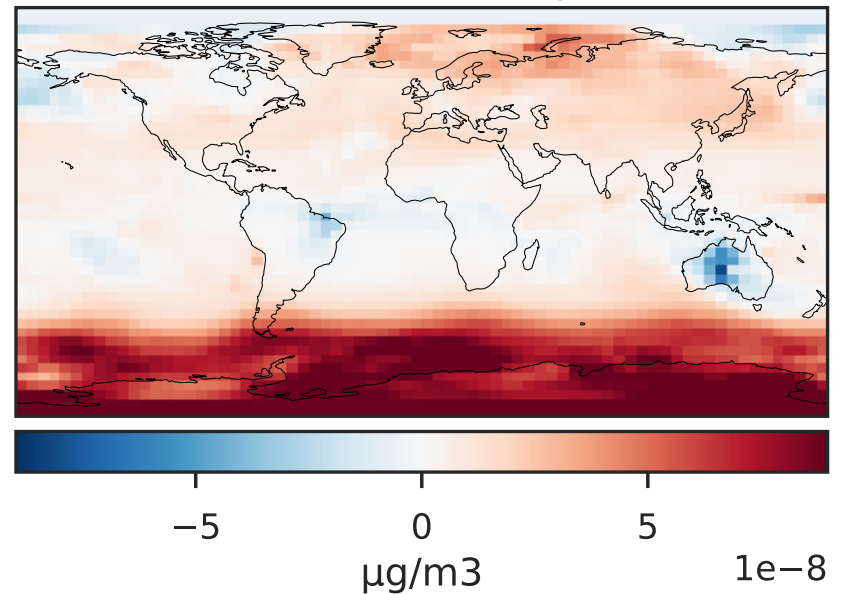
14.3.0-rc.0 (Dev)
4.0x5.0



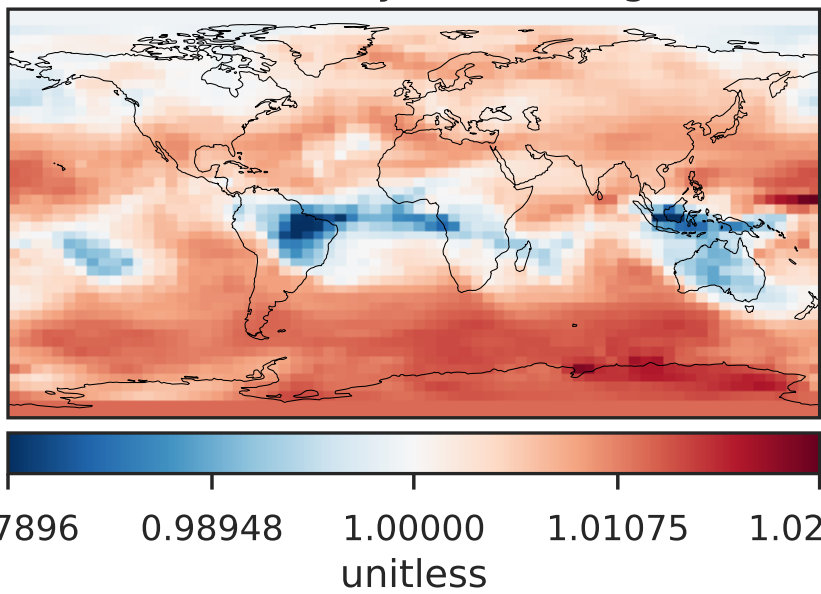
Difference
Dev - Ref, Dynamic Range



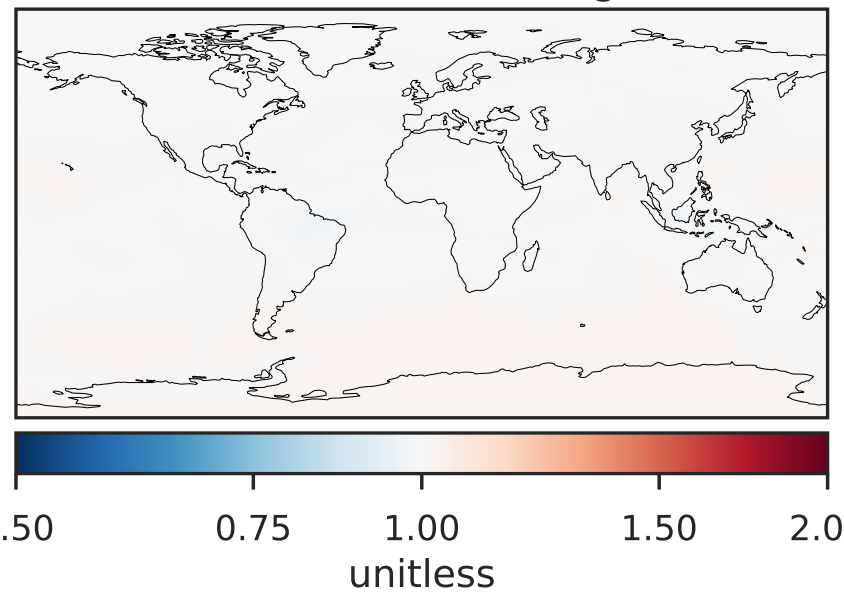
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

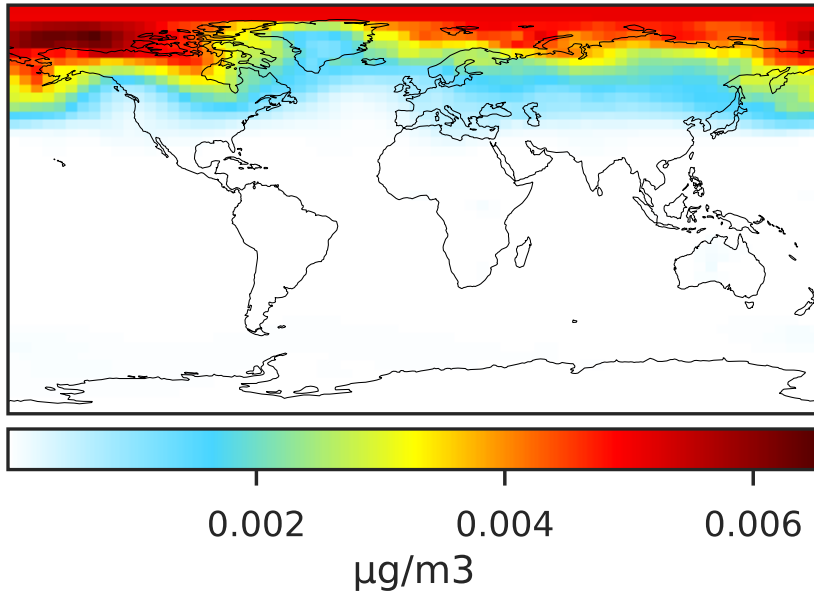


Ratio
Dev/Ref, Fixed Range

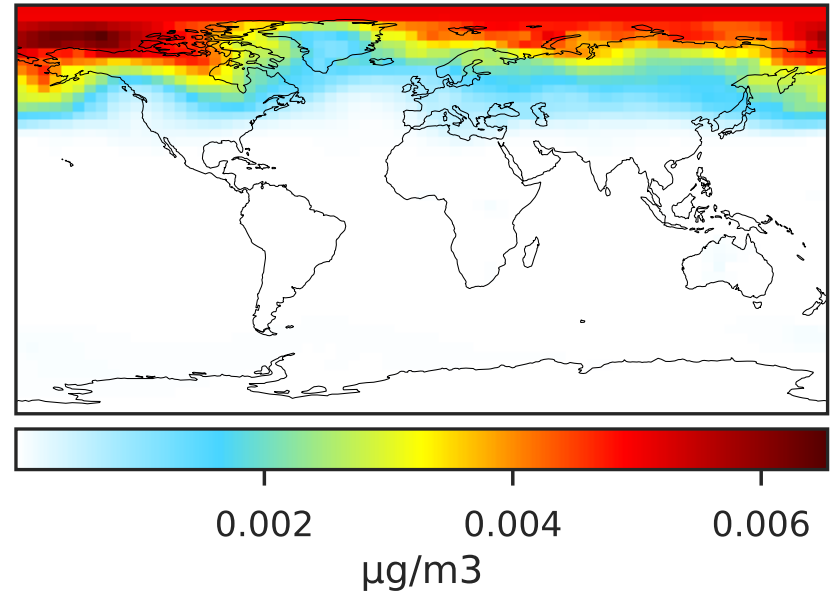


SpeciesConcVV_NITs (Jan2019)

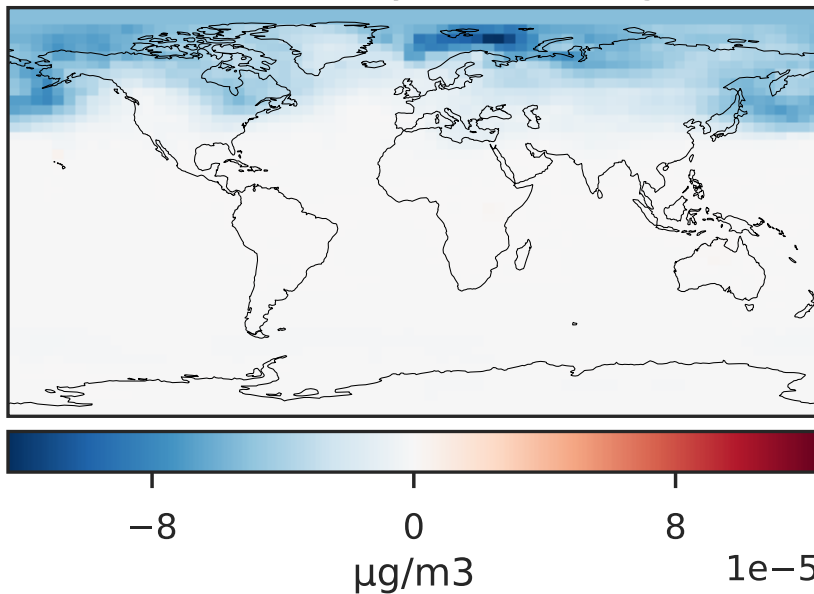
14.2.0-rc.2 (Ref)
4.0x5.0



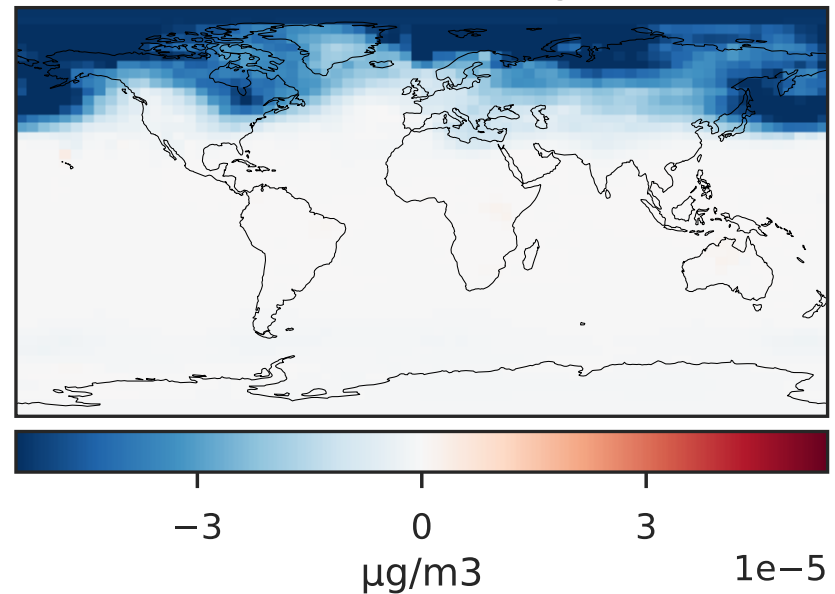
14.3.0-rc.0 (Dev)
4.0x5.0



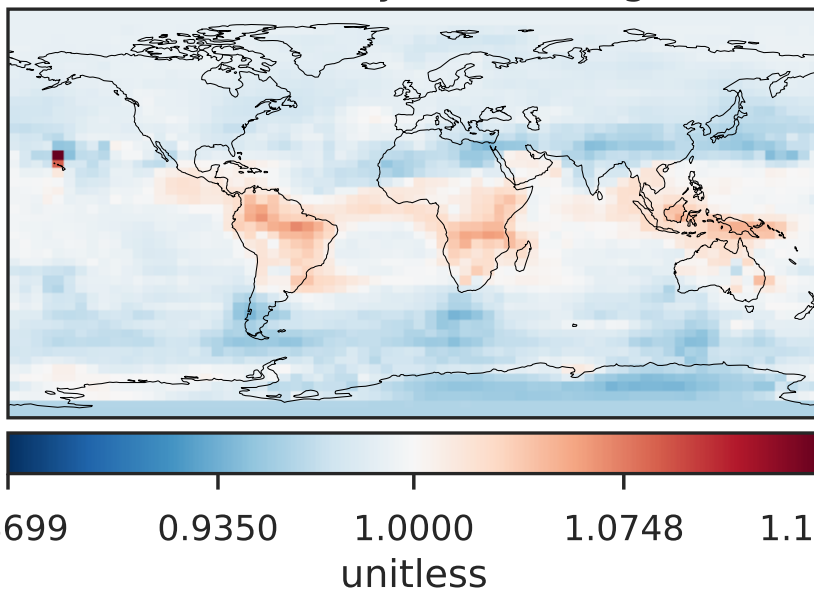
Difference
Dev - Ref, Dynamic Range



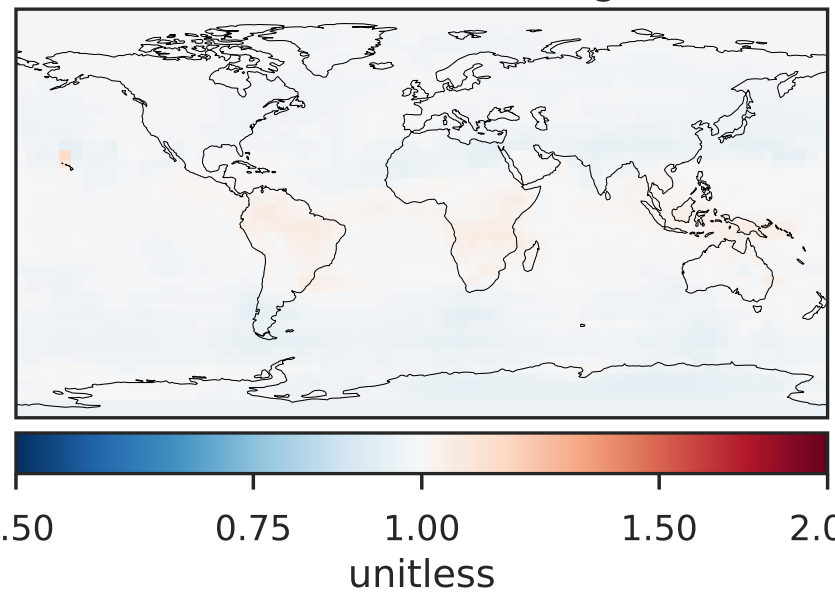
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

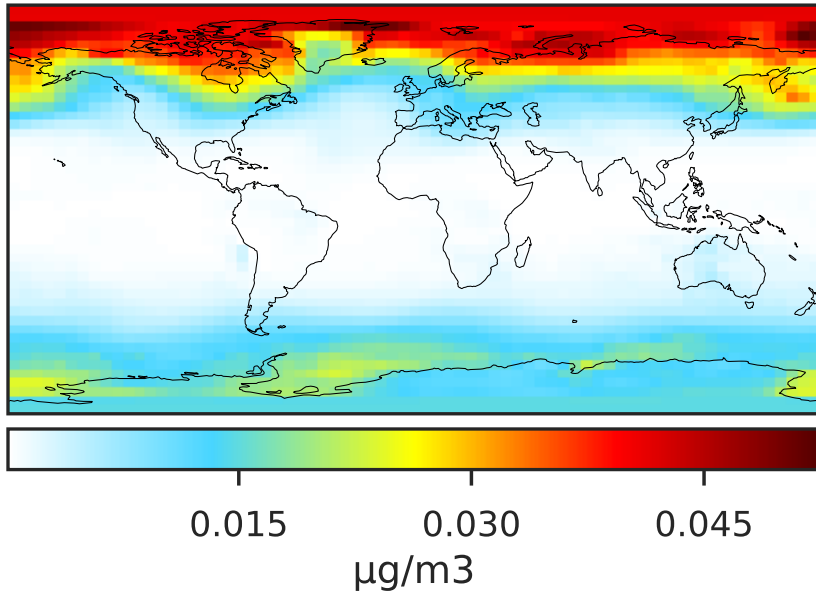


Ratio
Dev/Ref, Fixed Range

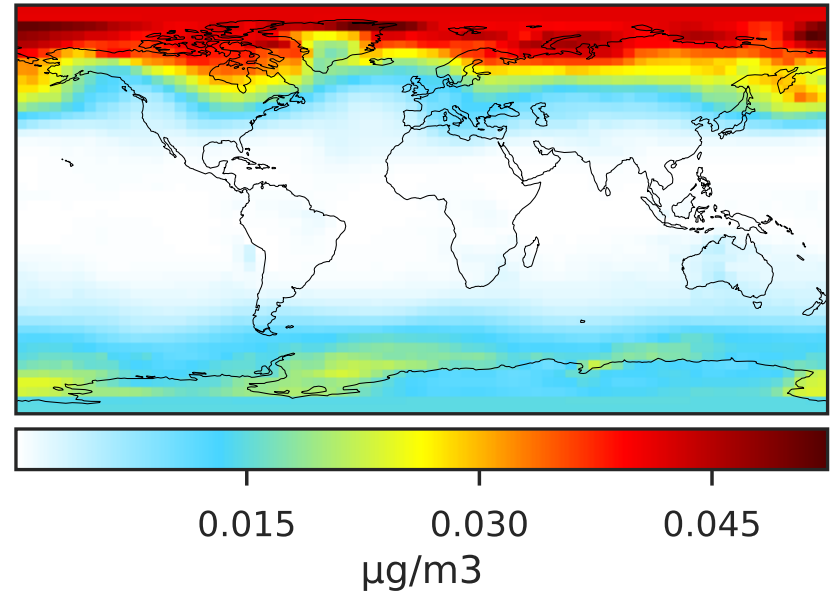


SpeciesConcVV_SALA (Jan2019)

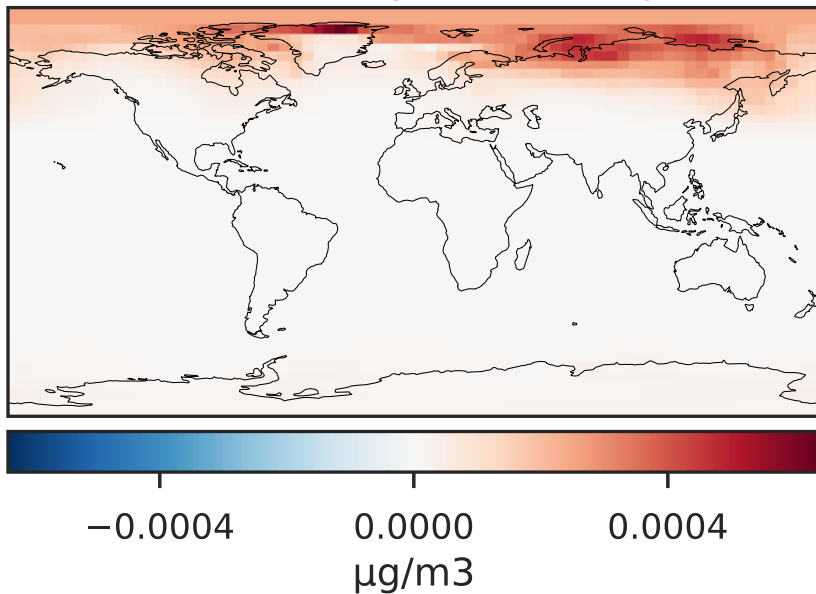
14.2.0-rc.2 (Ref)
4.0x5.0



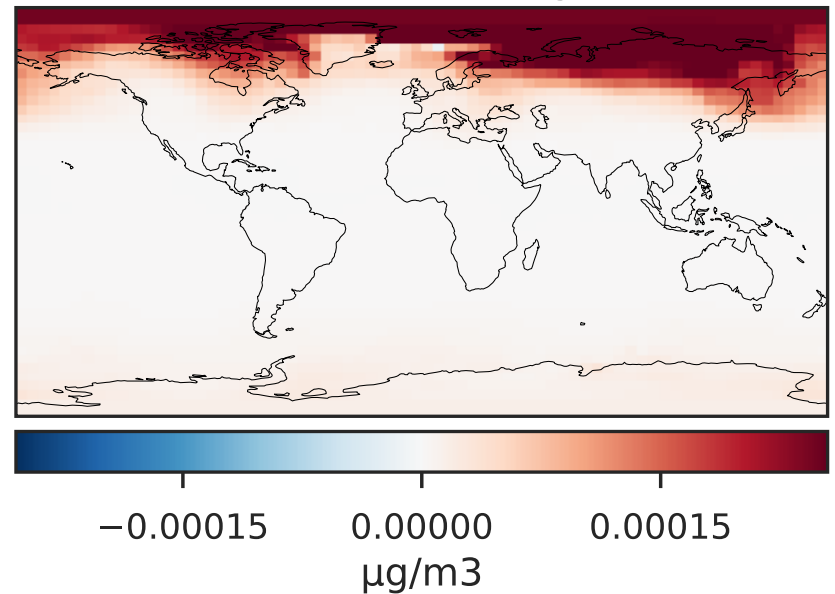
14.3.0-rc.0 (Dev)
4.0x5.0



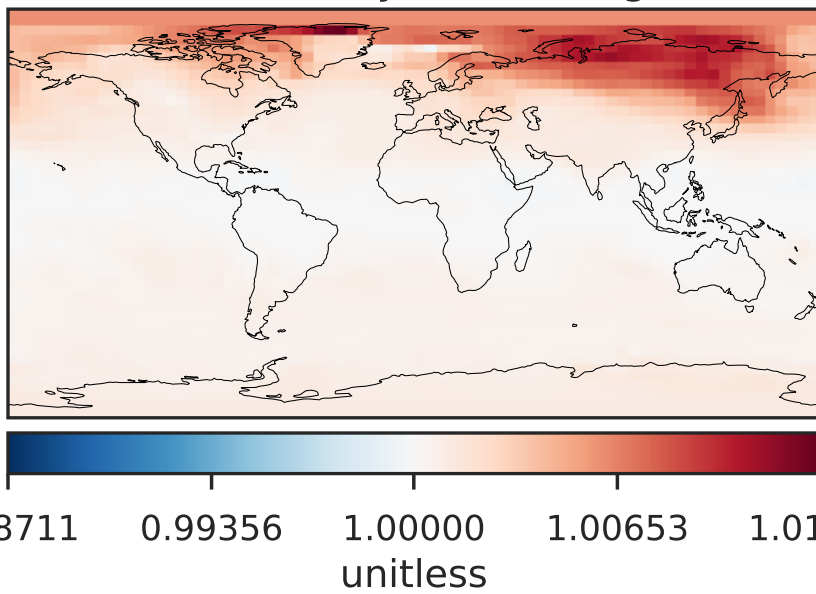
Difference
Dev - Ref, Dynamic Range



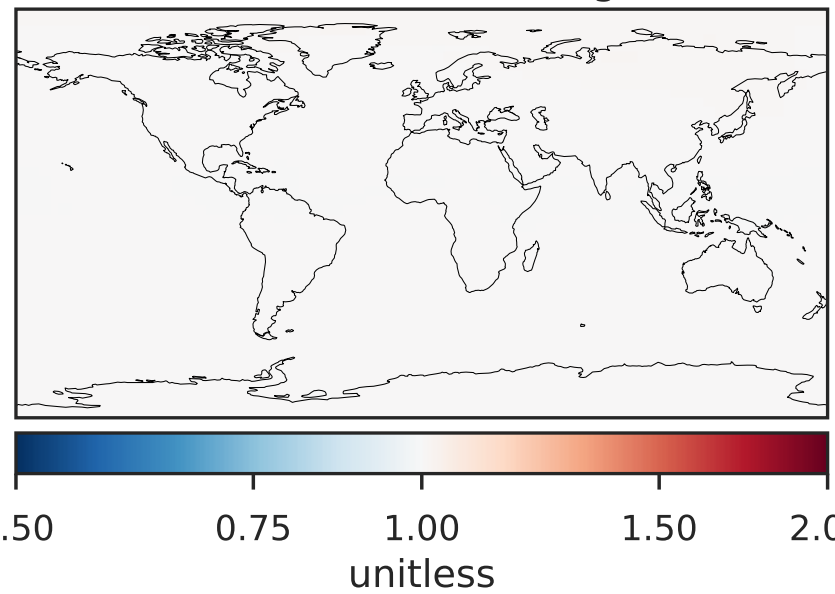
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

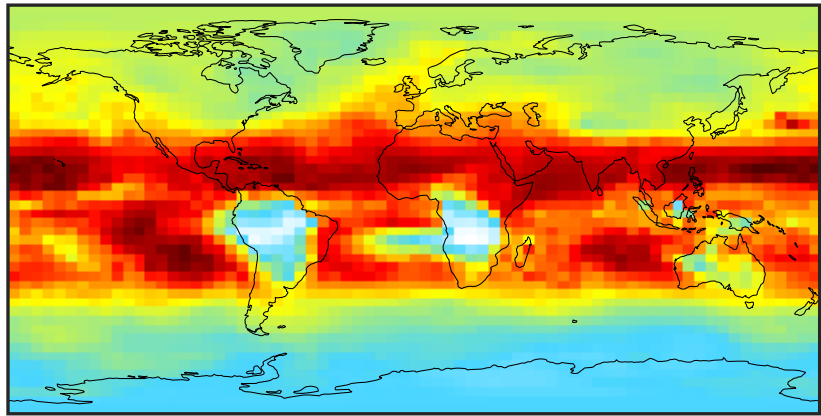


Ratio
Dev/Ref, Fixed Range



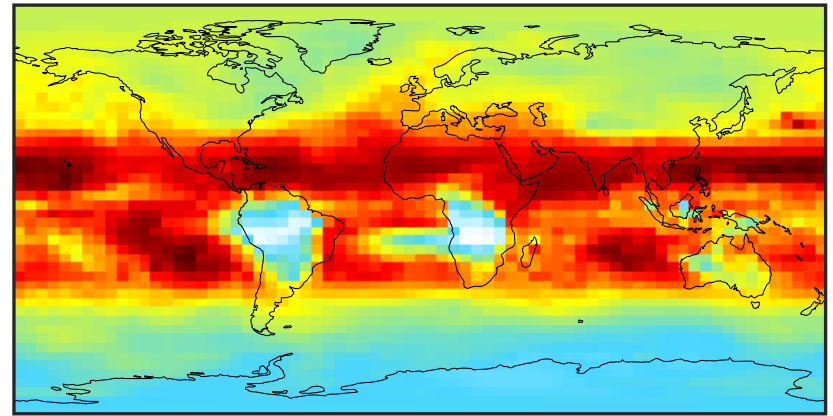
SpeciesConcVV_SALAAAL (Jan2019)

14.2.0-rc.2 (Ref)
4.0x5.0



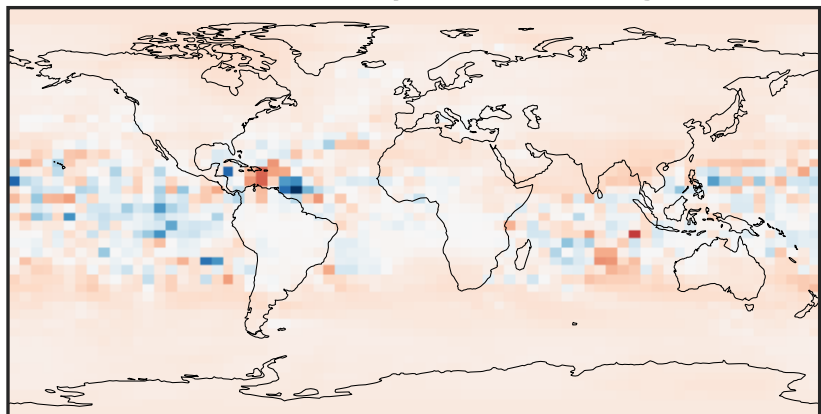
0.5 1.0 1.5 2.0
 $\mu\text{g}/\text{m}^3$ $1\text{e}-8$

14.3.0-rc.0 (Dev)
4.0x5.0



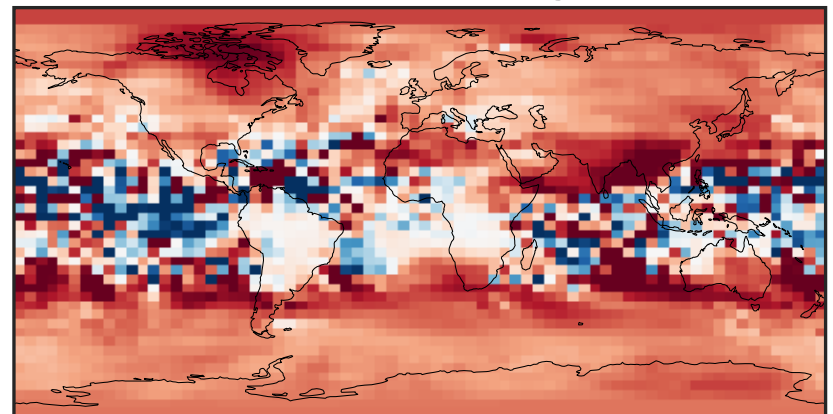
0.5 1.0 1.5 2.0
 $\mu\text{g}/\text{m}^3$ $1\text{e}-8$

Difference
Dev - Ref, Dynamic Range



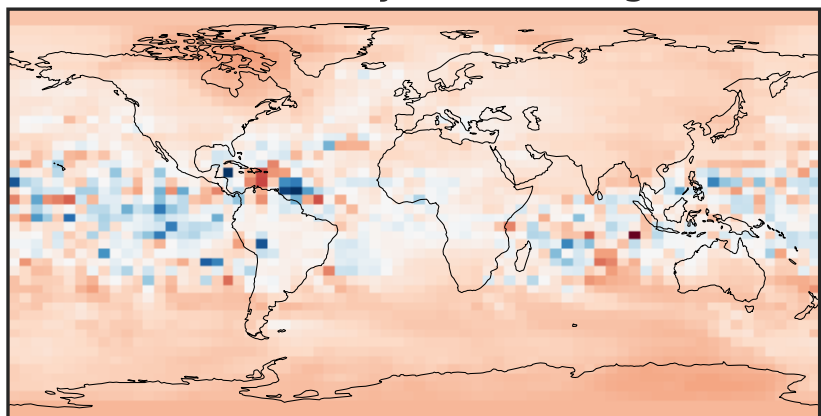
-1 0 1
 $\mu\text{g}/\text{m}^3$ $1\text{e}-9$

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



-2 0 2
 $\mu\text{g}/\text{m}^3$ $1\text{e}-10$

Ratio
Dev/Ref, Dynamic Range



0.9121 0.9560 1.0000 1.0482 1.0964
unitless

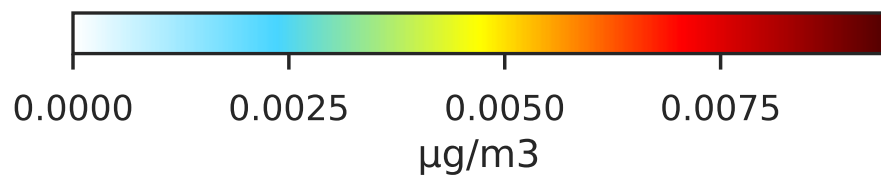
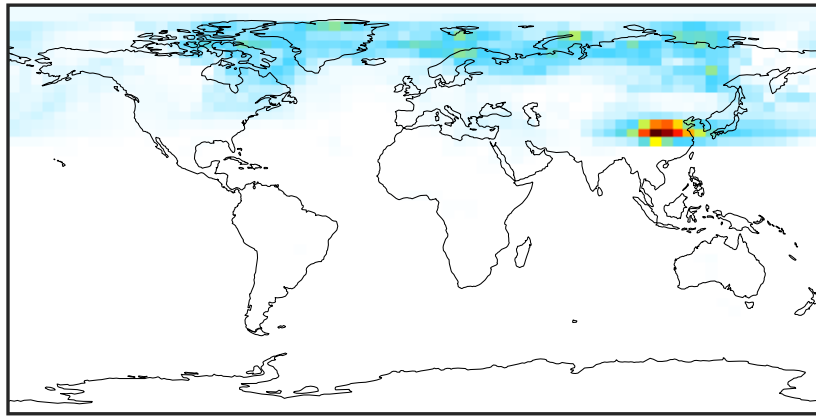
Ratio
Dev/Ref, Fixed Range



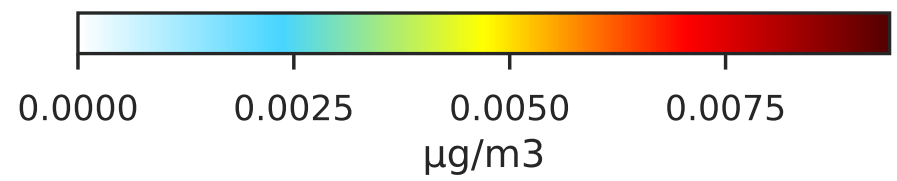
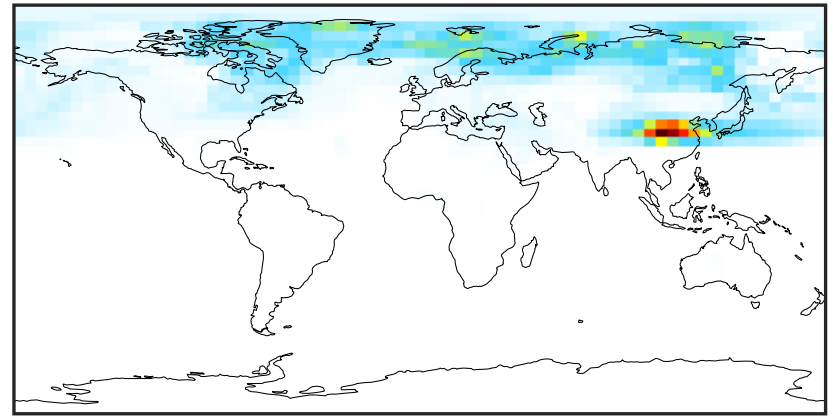
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_SALACL (Jan2019)

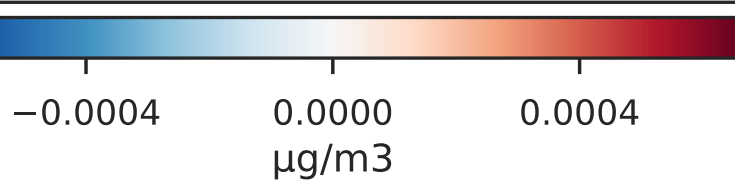
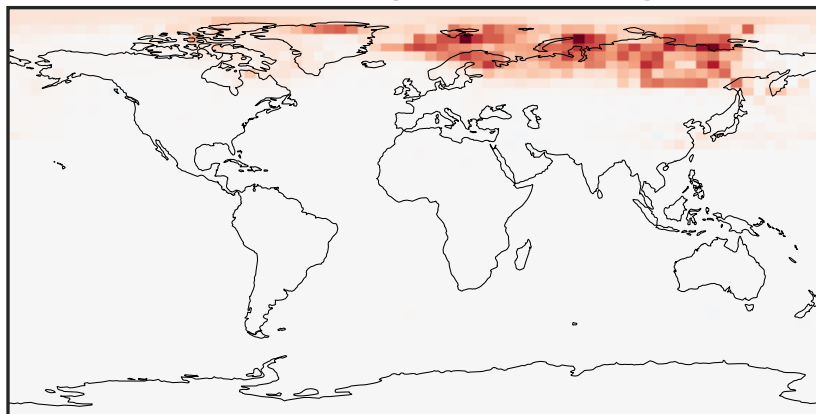
14.2.0-rc.2 (Ref)
4.0x5.0



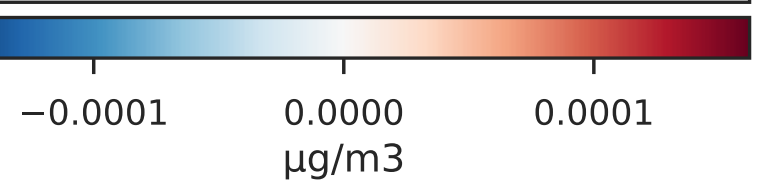
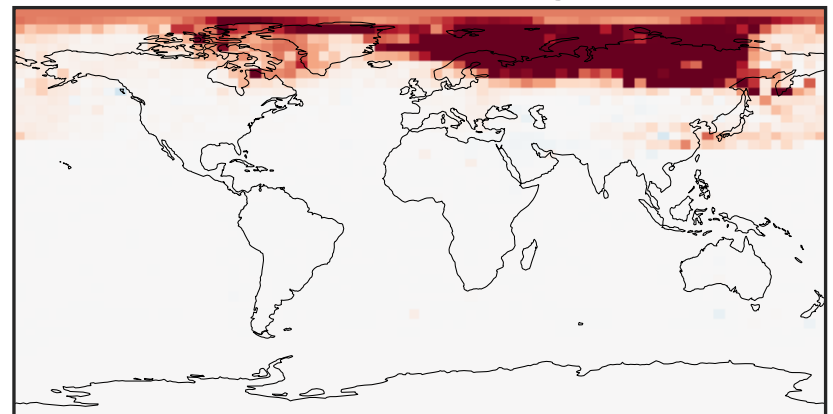
14.3.0-rc.0 (Dev)
4.0x5.0



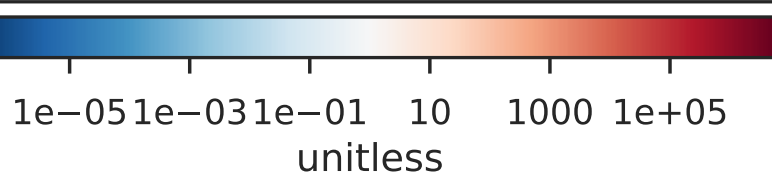
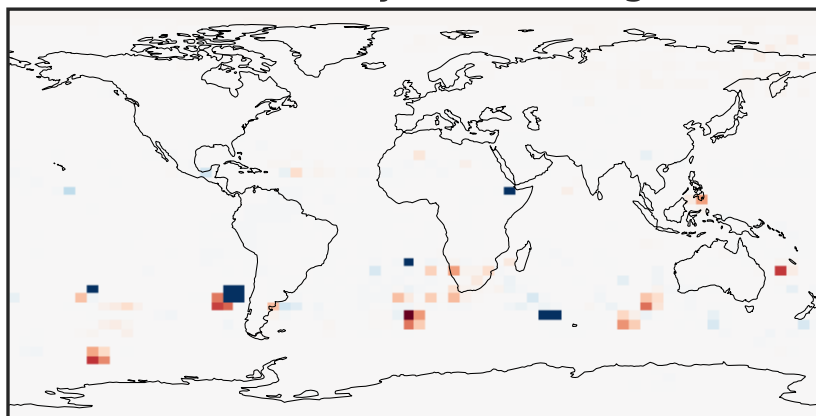
Difference
Dev - Ref, Dynamic Range



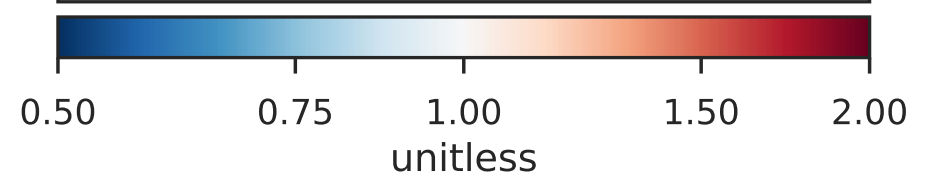
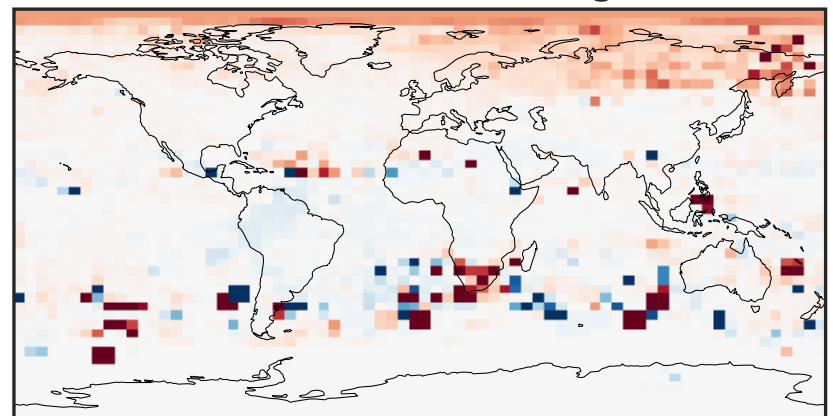
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

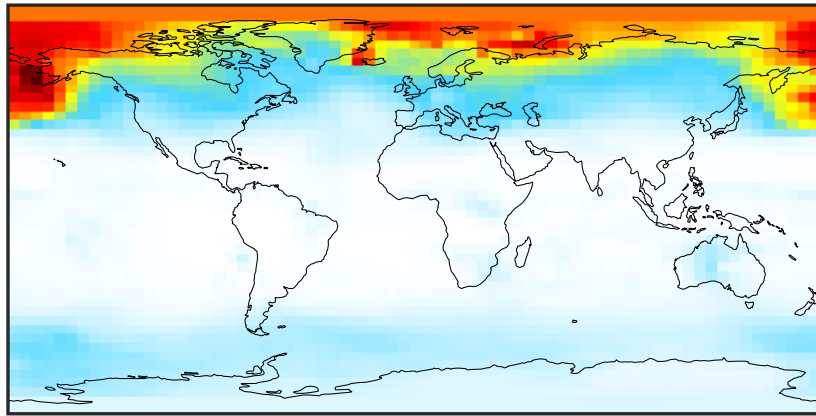


Ratio
Dev/Ref, Fixed Range



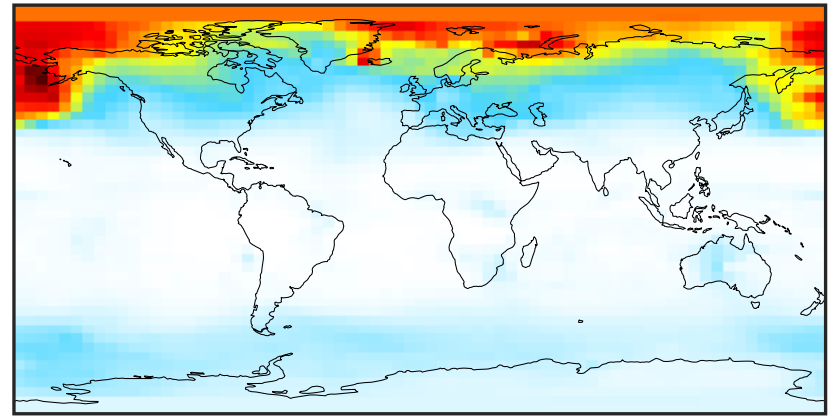
SpeciesConcVV_SALC (Jan2019)

14.2.0-rc.2 (Ref)
4.0x5.0



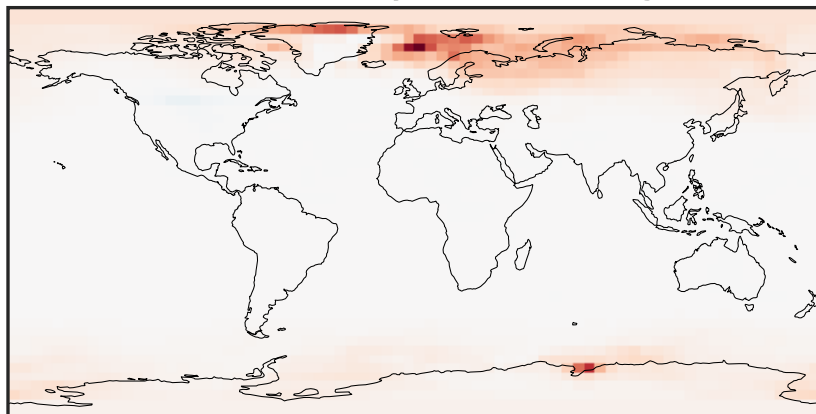
0.025 0.050 0.075
 $\mu\text{g}/\text{m}^3$

14.3.0-rc.0 (Dev)
4.0x5.0



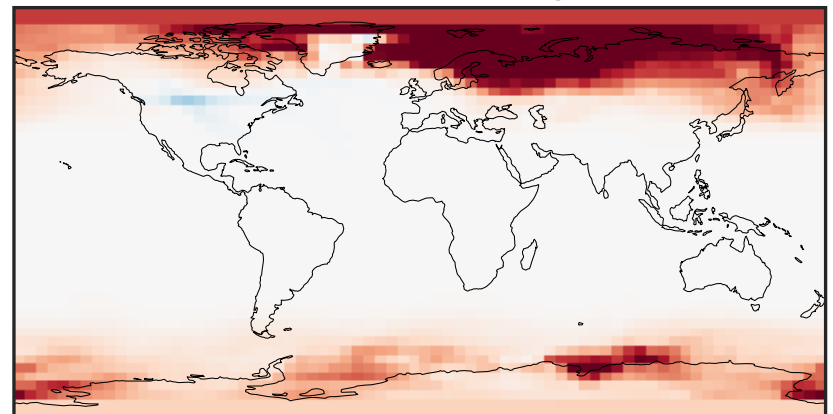
0.025 0.050 0.075
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



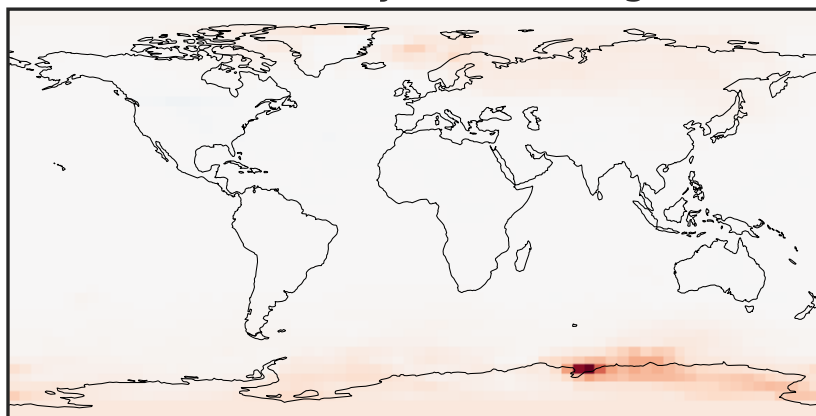
-0.00015 0.00000 0.00015
 $\mu\text{g}/\text{m}^3$

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



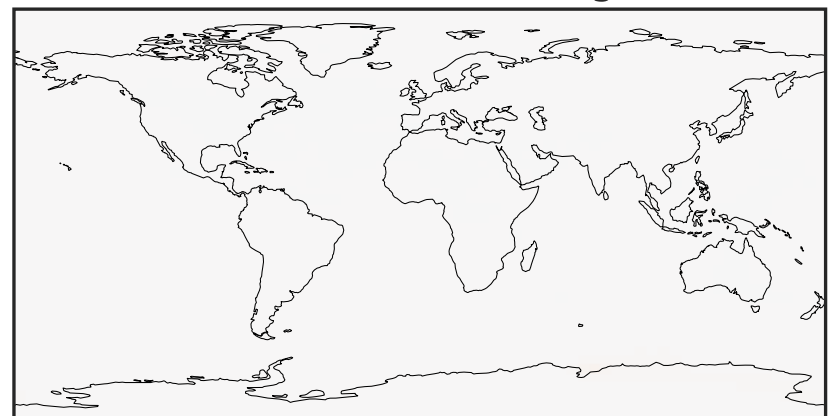
-3 0 3
 $\mu\text{g}/\text{m}^3$ $1\text{e}-5$

Ratio
Dev/Ref, Dynamic Range



0.97697 0.98848 1.00000 1.01179 1.02357
unitless

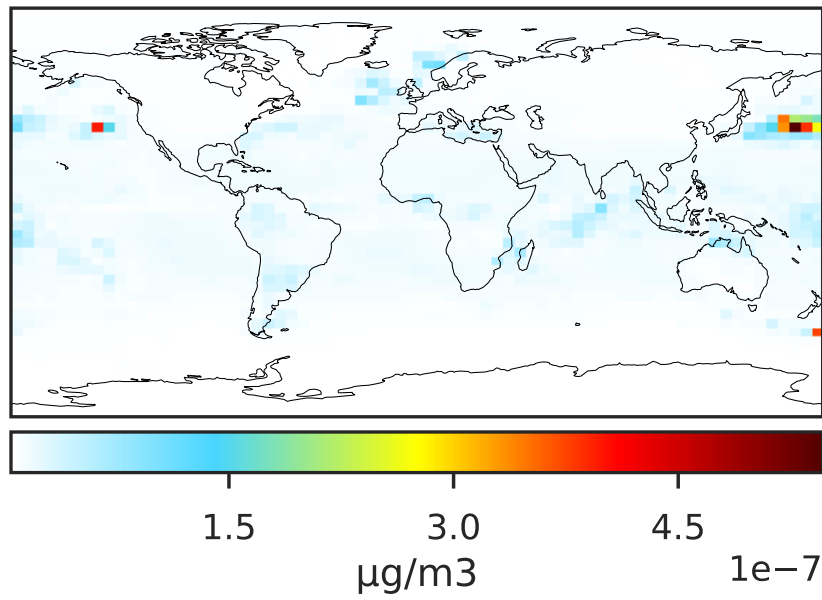
Ratio
Dev/Ref, Fixed Range



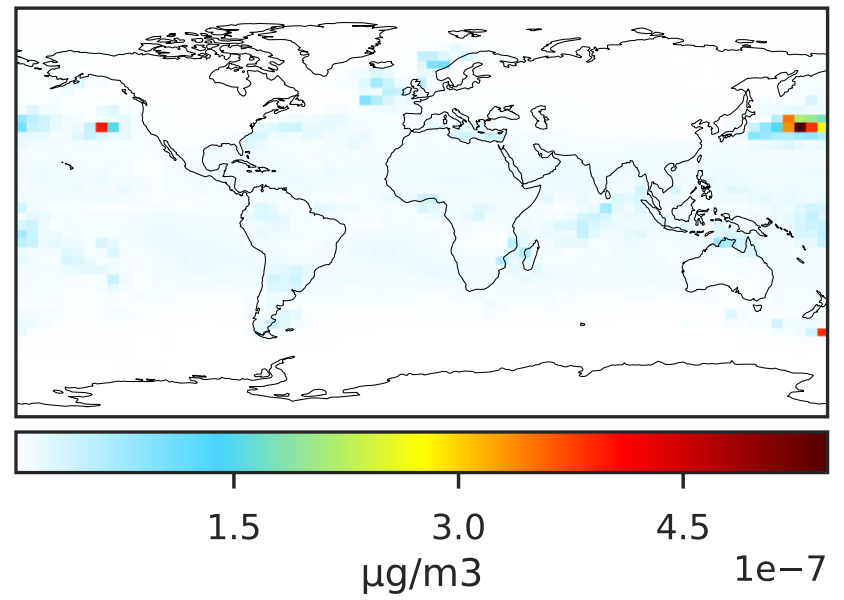
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_SALCAL (Jan2019)

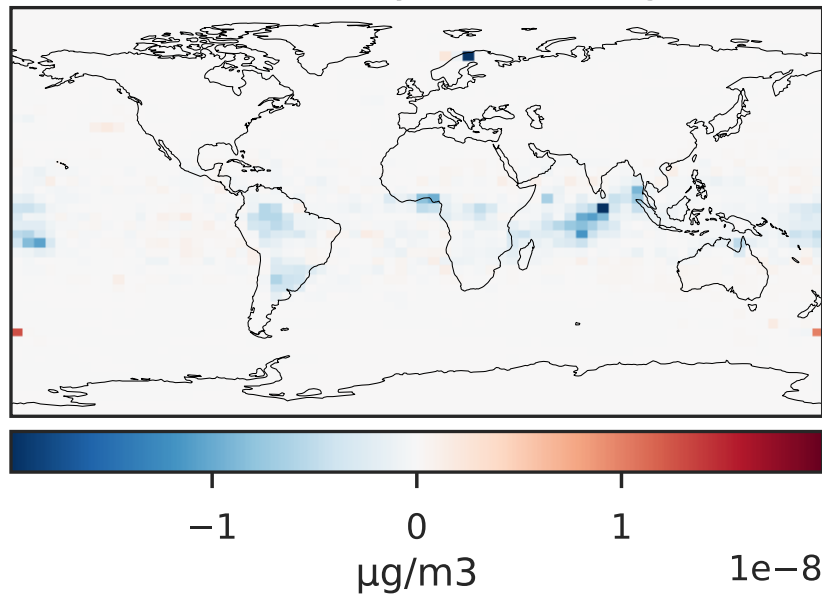
14.2.0-rc.2 (Ref)
4.0x5.0



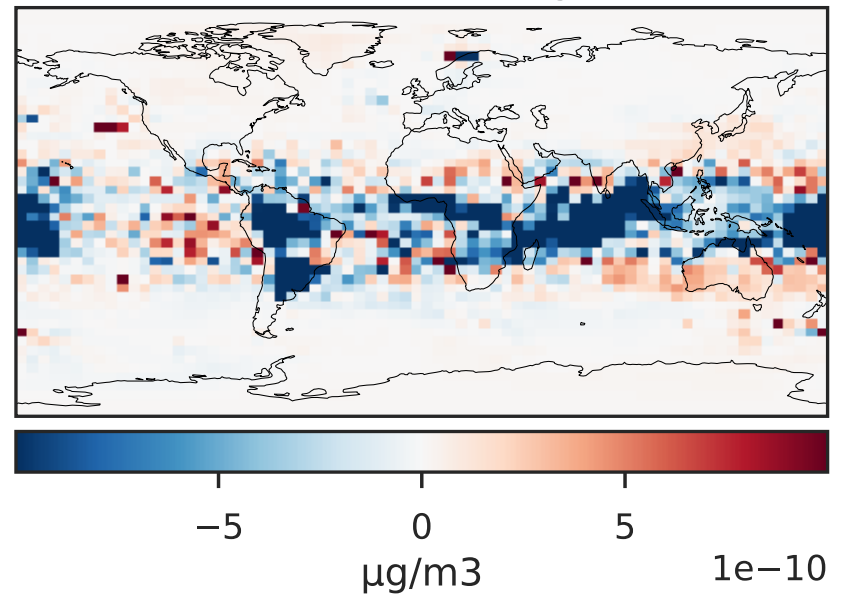
14.3.0-rc.0 (Dev)
4.0x5.0



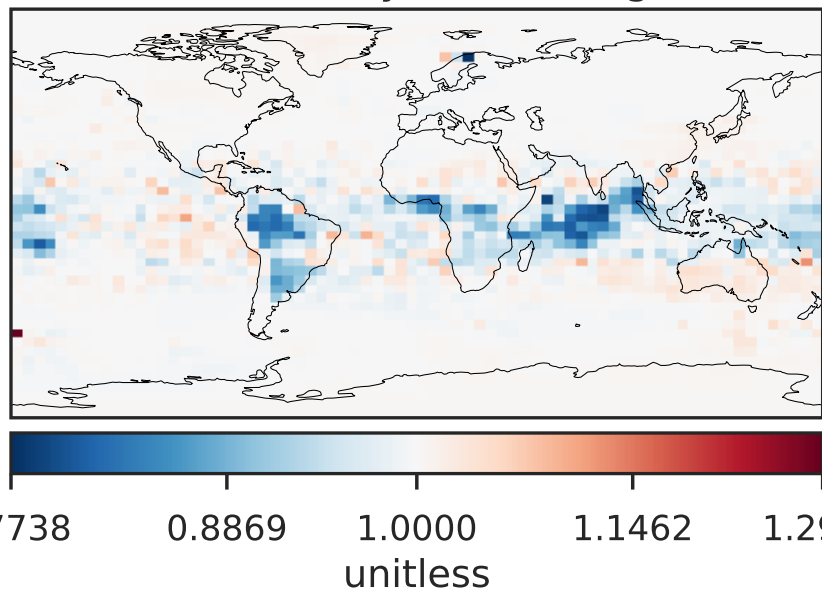
Difference
Dev - Ref, Dynamic Range



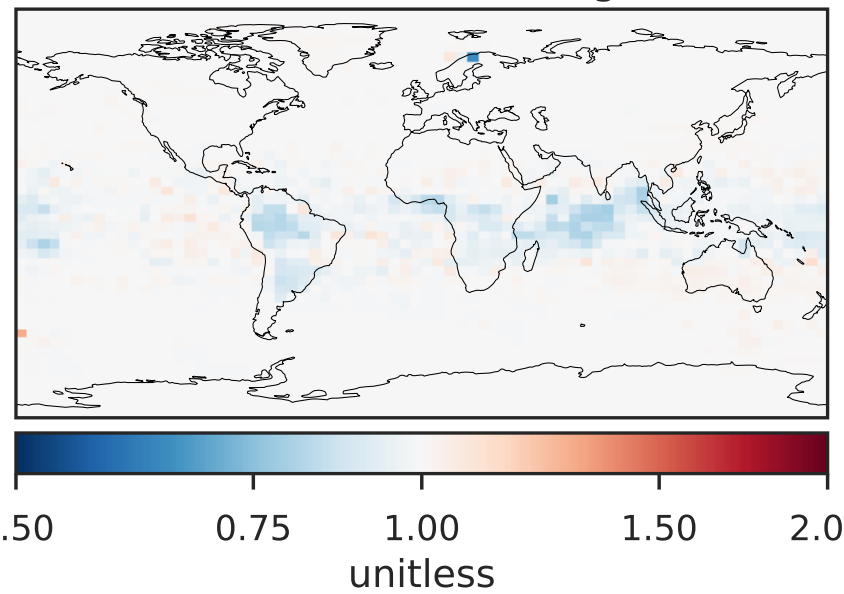
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

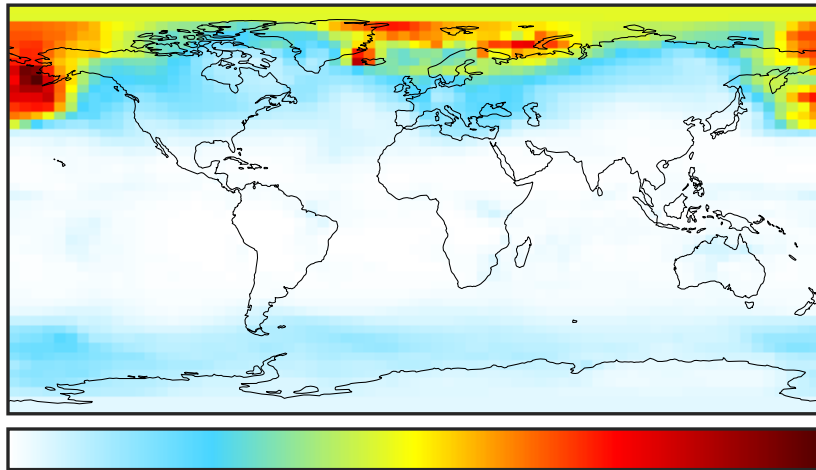


Ratio
Dev/Ref, Fixed Range



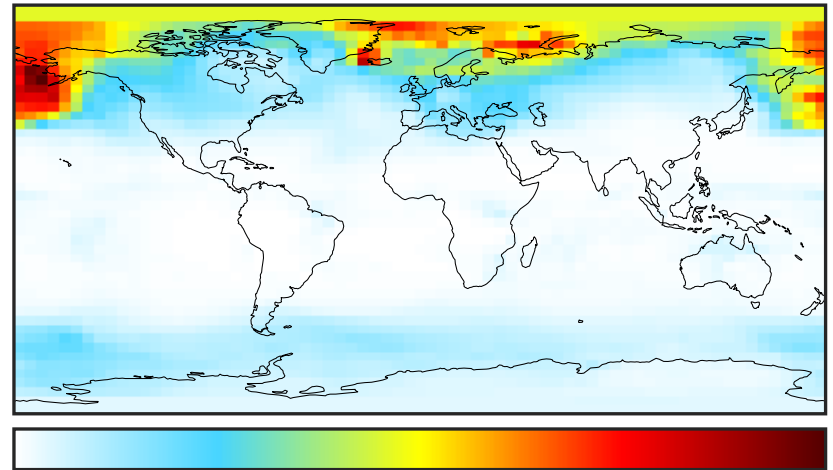
SpeciesConcVV_SALCCL (Jan2019)

14.2.0-rc.2 (Ref)
4.0x5.0



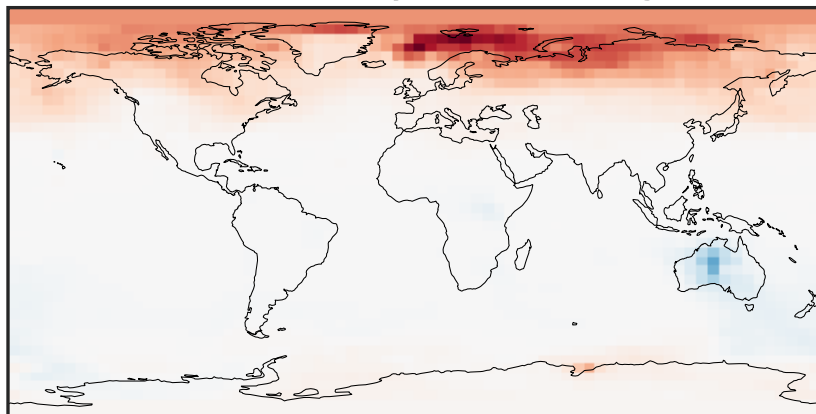
0.015 0.030
 $\mu\text{g}/\text{m}^3$

14.3.0-rc.0 (Dev)
4.0x5.0



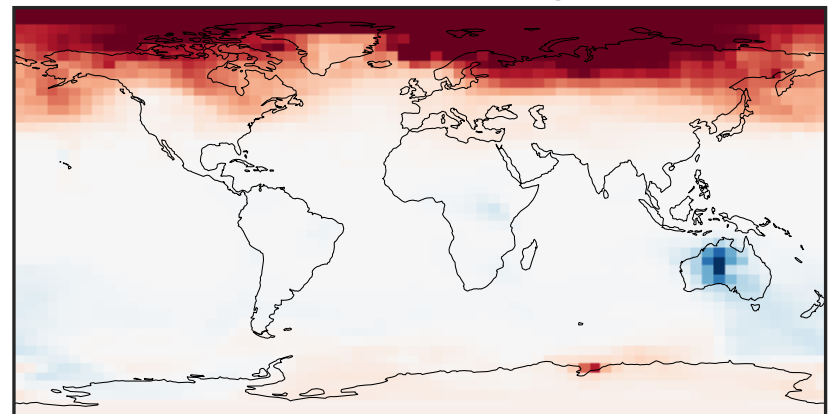
0.015 0.030
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



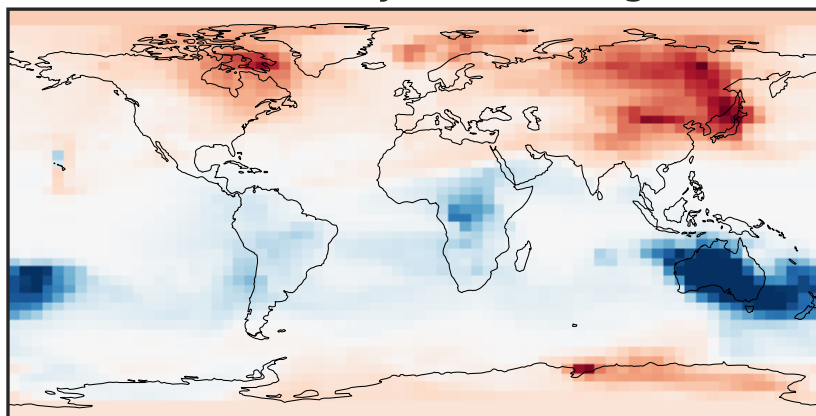
-0.0002 0.0000 0.0002
 $\mu\text{g}/\text{m}^3$

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



-8 0 8
 $\mu\text{g}/\text{m}^3$ $1\text{e}-5$

Ratio
Dev/Ref, Dynamic Range



0.97290 0.98645 1.00000 1.01393 1.02785
unitless

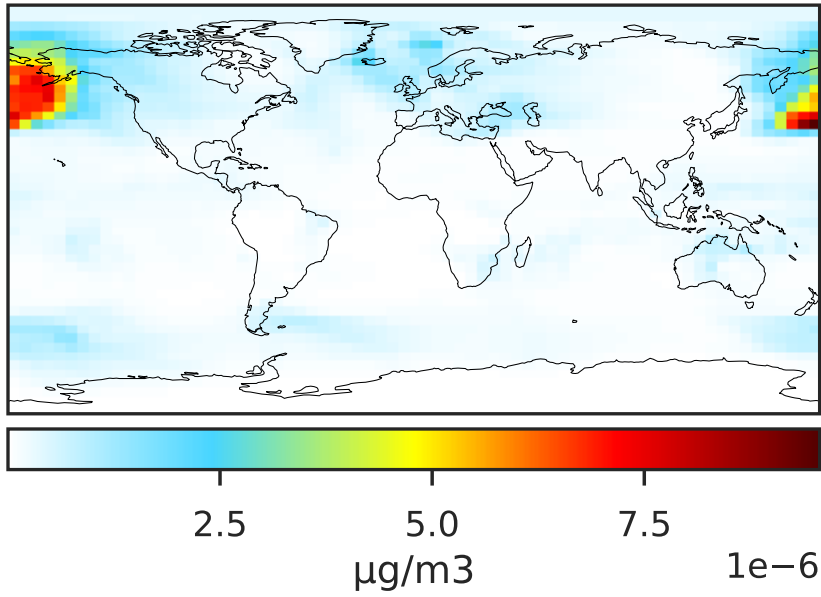
Ratio
Dev/Ref, Fixed Range



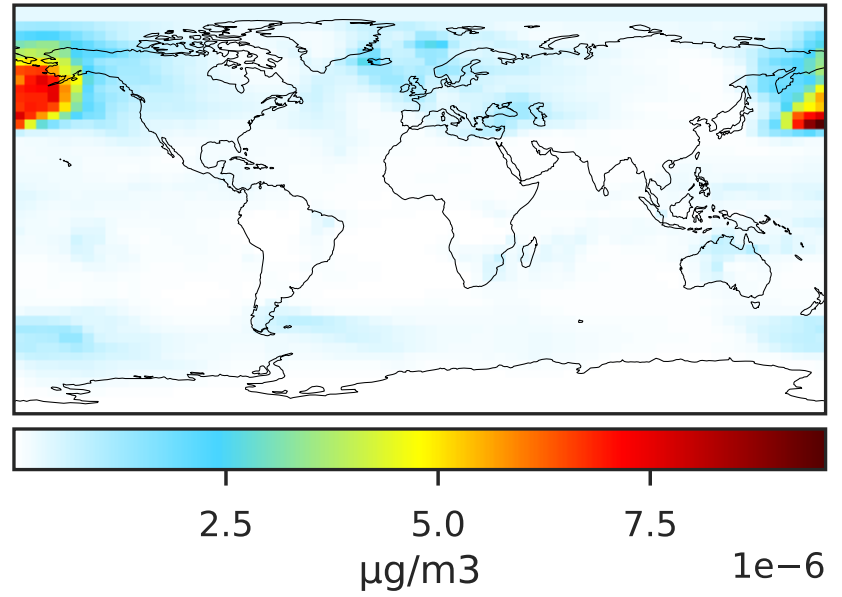
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_SO4s (Jan2019)

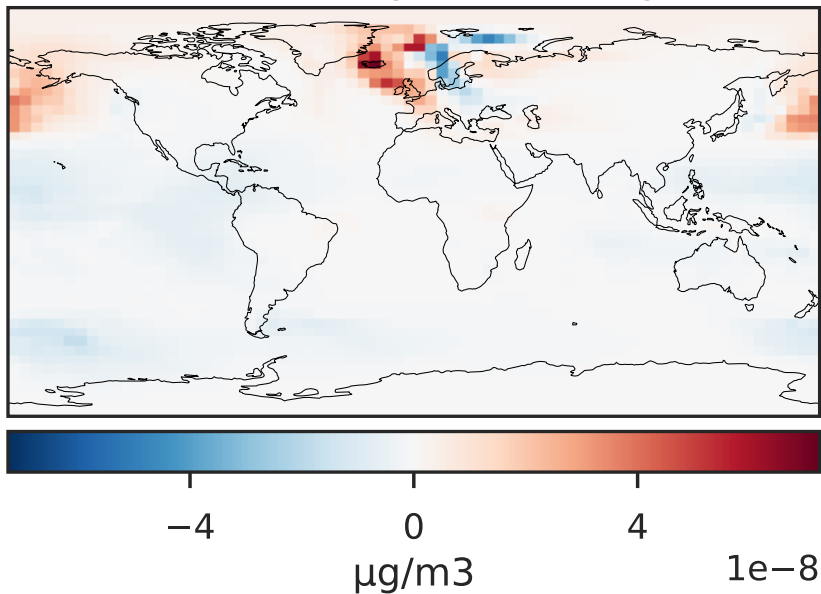
14.2.0-rc.2 (Ref)
4.0x5.0



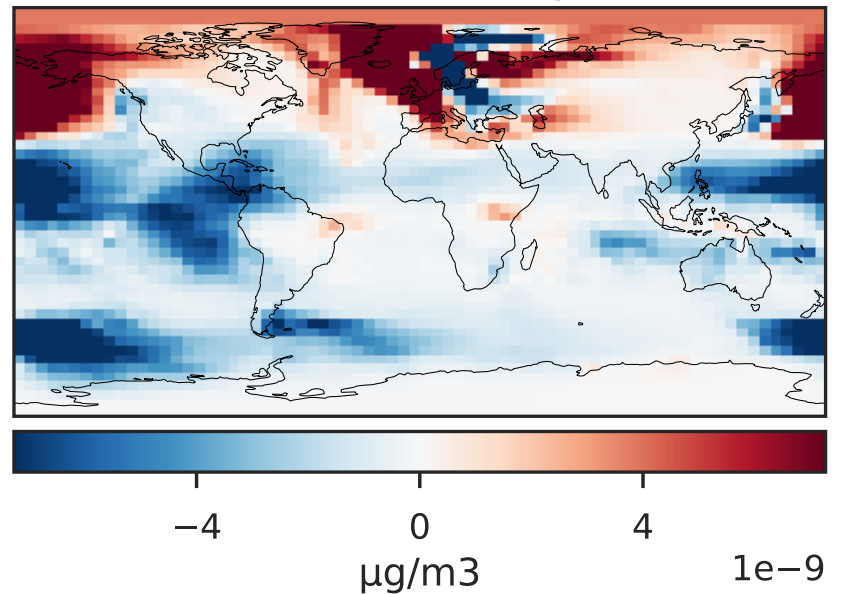
14.3.0-rc.0 (Dev)
4.0x5.0



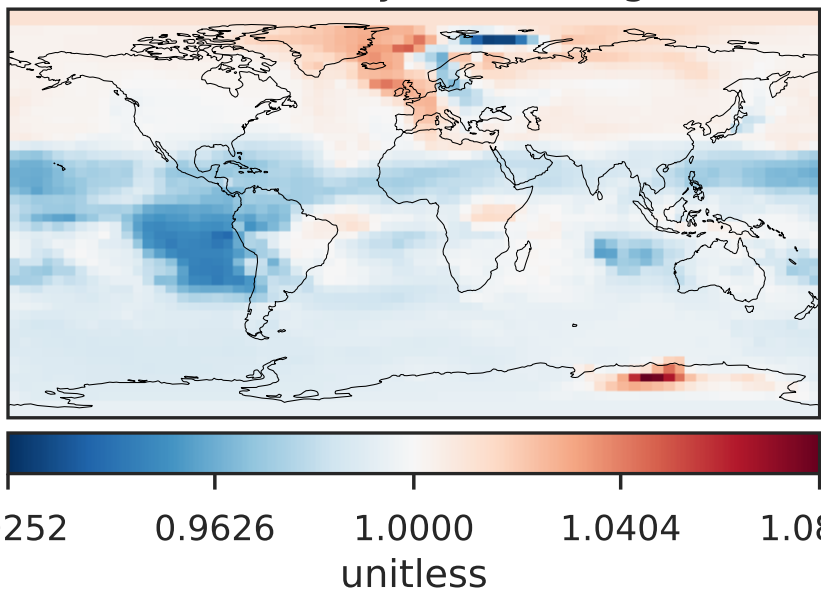
Difference
Dev - Ref, Dynamic Range



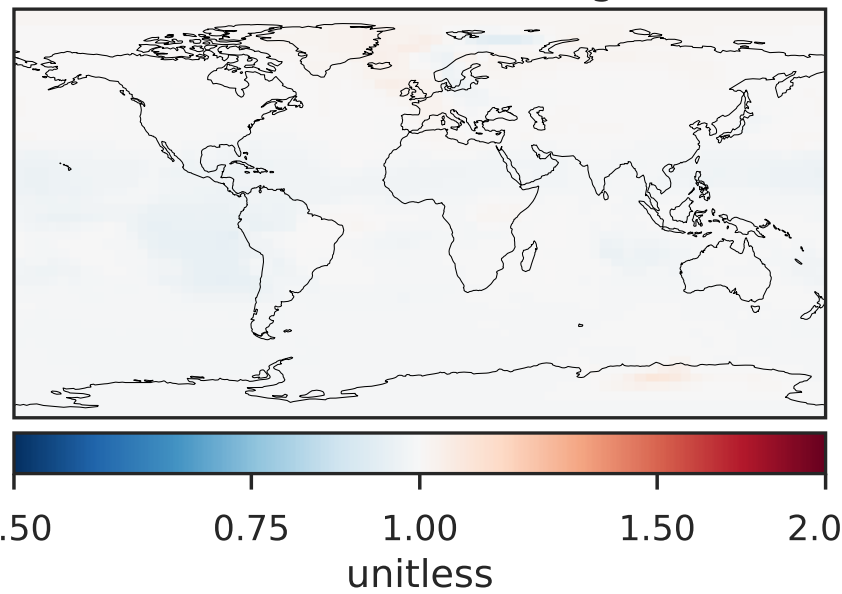
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

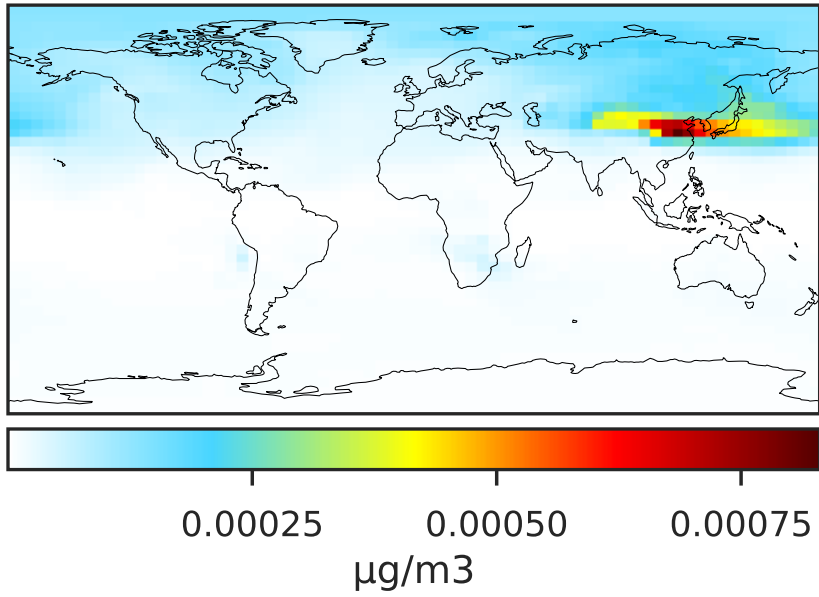


Ratio
Dev/Ref, Fixed Range

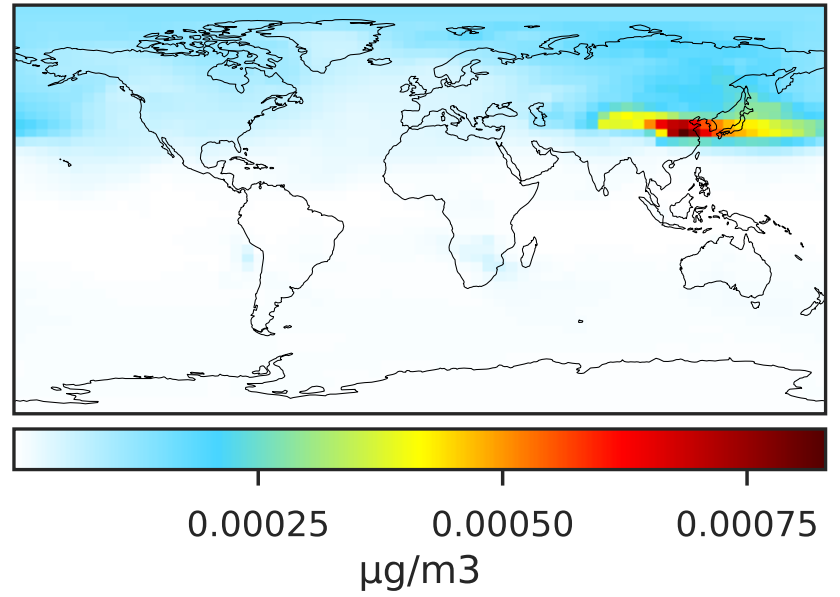


SpeciesConcVV_pFe (Jan2019)

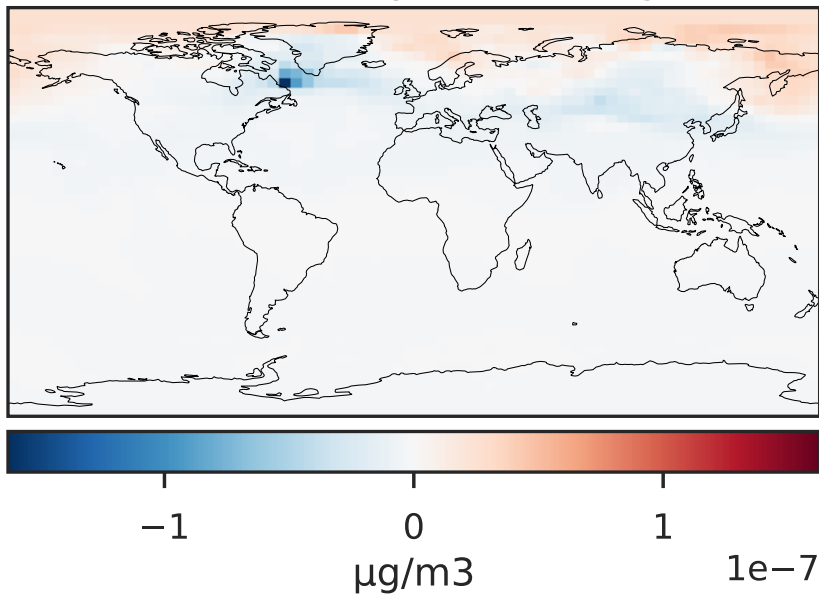
14.2.0-rc.2 (Ref)
4.0x5.0



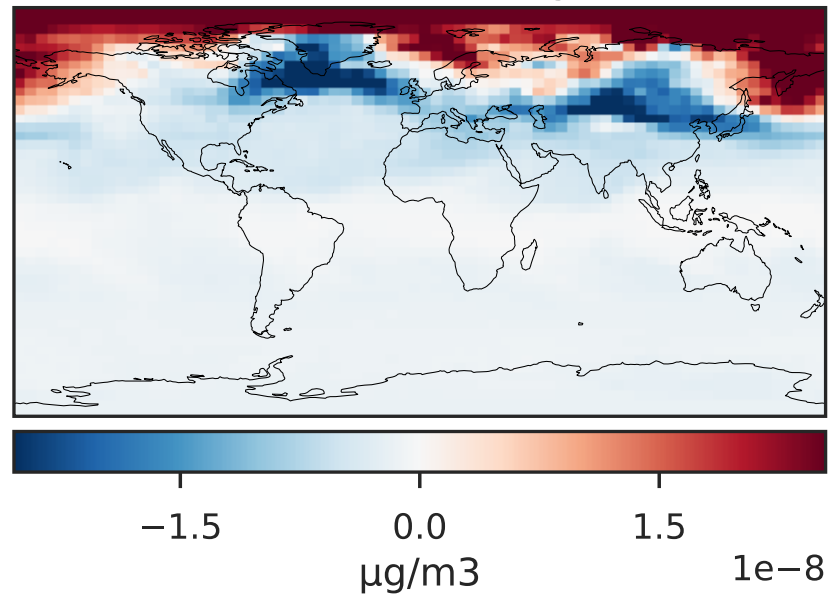
14.3.0-rc.0 (Dev)
4.0x5.0



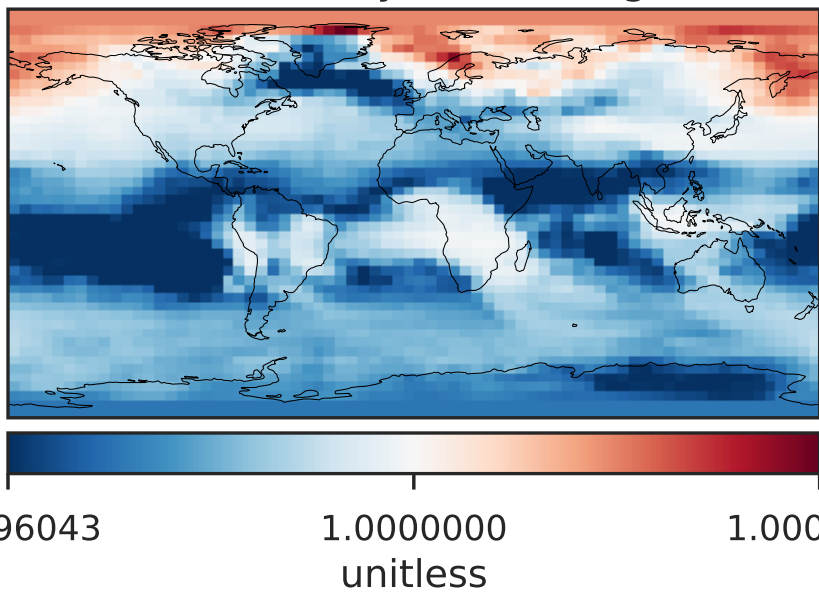
Difference
Dev - Ref, Dynamic Range



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



Ratio
Dev/Ref, Dynamic Range



Ratio
Dev/Ref, Fixed Range

