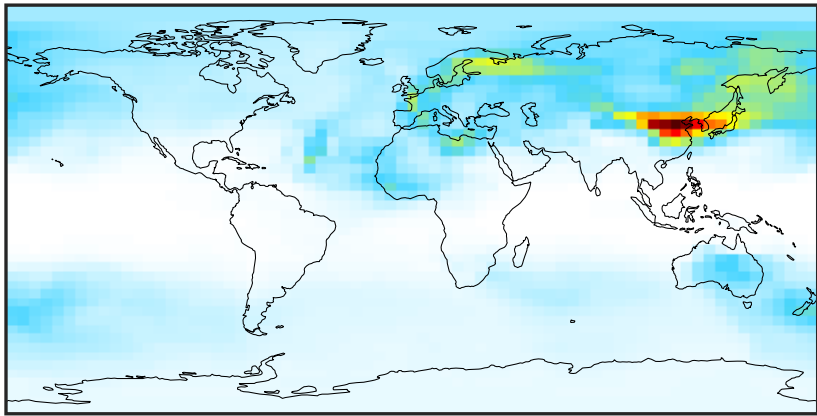


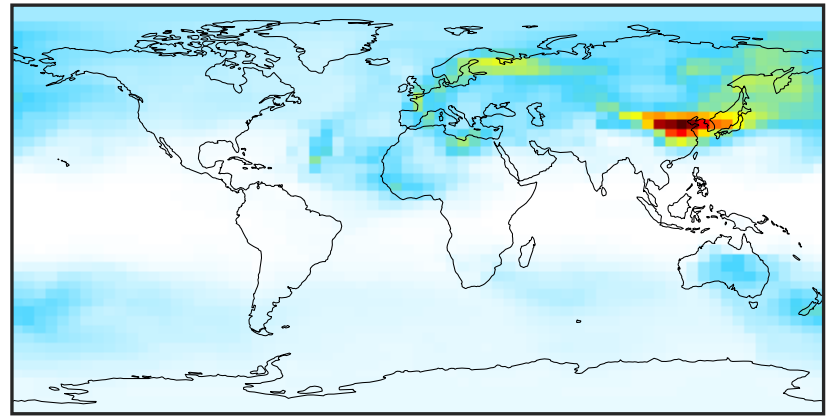
SpeciesConcVW_DST1 (Oct2019)

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



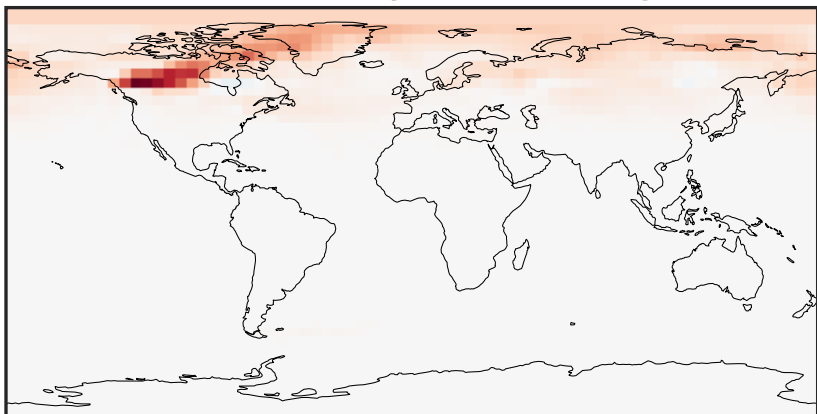
0.0002 0.2121 0.4239 0.6357 0.8476
 $\mu\text{g}/\text{m}^3$

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



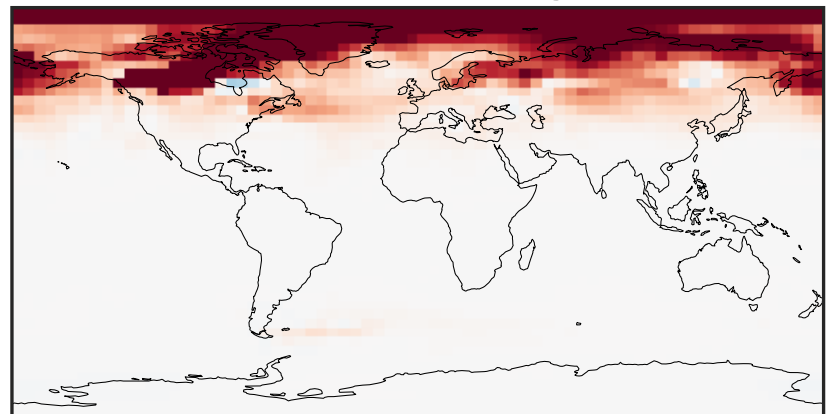
0.0002 0.2121 0.4239 0.6357 0.8476
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



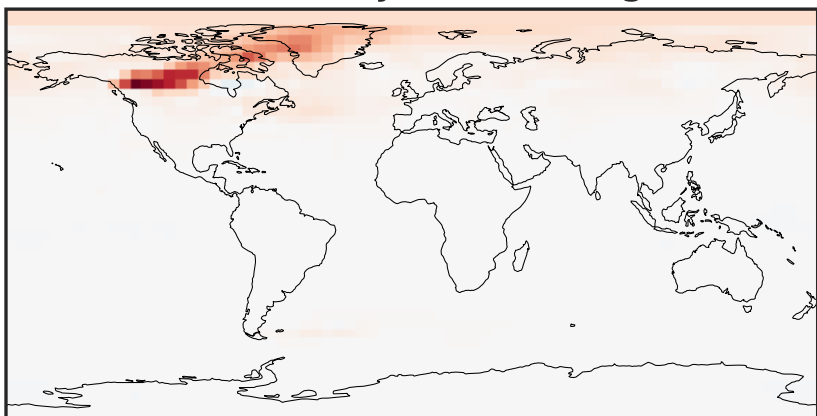
-8 0 8
 $\mu\text{g}/\text{m}^3$ $1\text{e}-5$

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



-1.5 0.0 1.5
 $\mu\text{g}/\text{m}^3$ $1\text{e}-5$

Ratio
Dev/Ref, Dynamic Range



0.998486 0.999243 1.000000 1.000758 1.001516
unitless

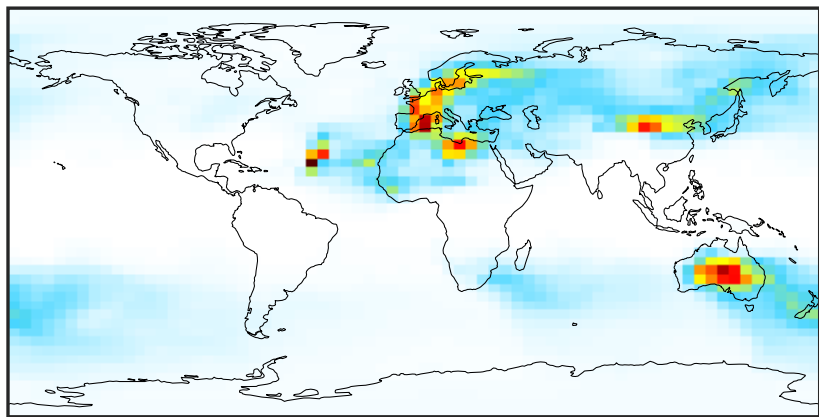
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

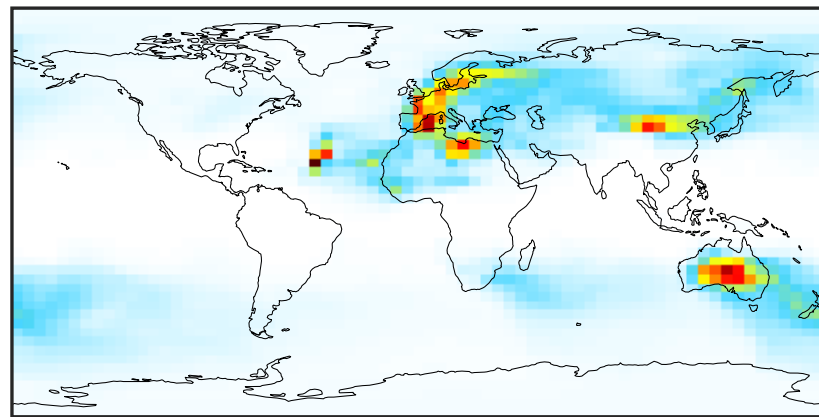
SpeciesConcVW_DST2 (Oct2019)

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



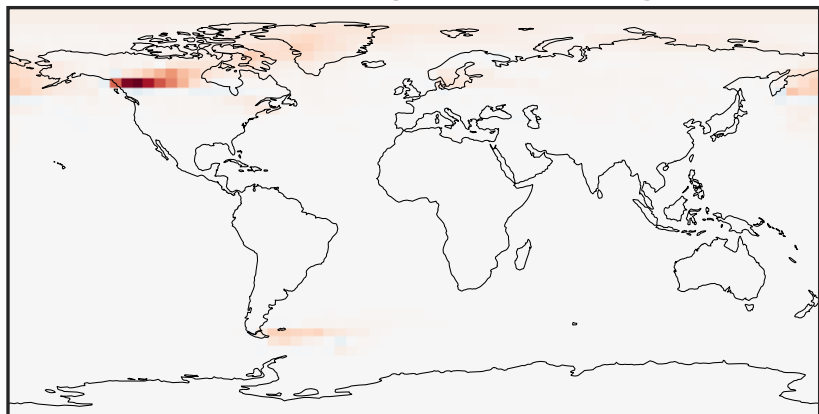
0.0000 0.0669 0.1338 0.2007 0.2676 $\mu\text{g}/\text{m}^3$

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



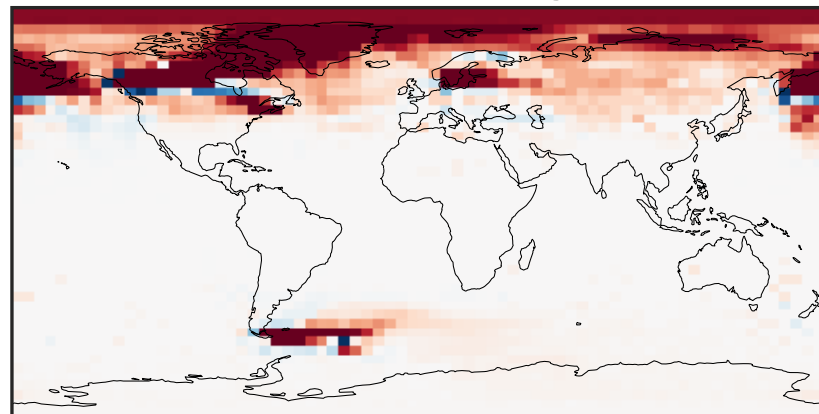
0.0000 0.0669 0.1338 0.2007 0.2676 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



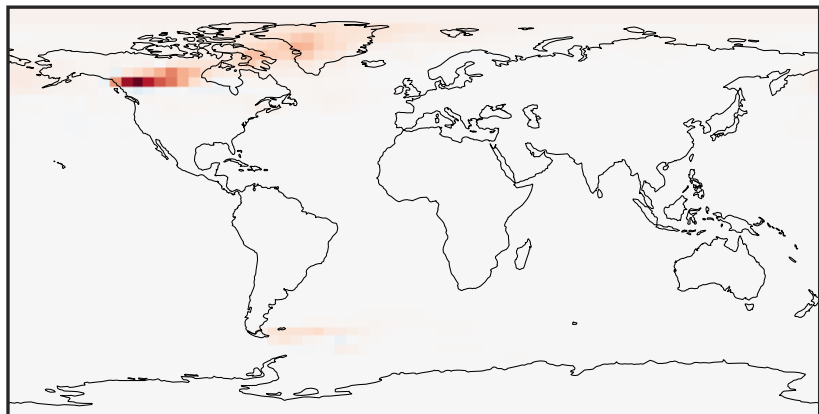
-6 0 6 $\mu\text{g}/\text{m}^3$ $1\text{e}-7$

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



-4 0 4 $\mu\text{g}/\text{m}^3$ $1\text{e}-8$

Ratio
Dev/Ref, Dynamic Range



0.9997722 1.000000 1.0002278 unitless

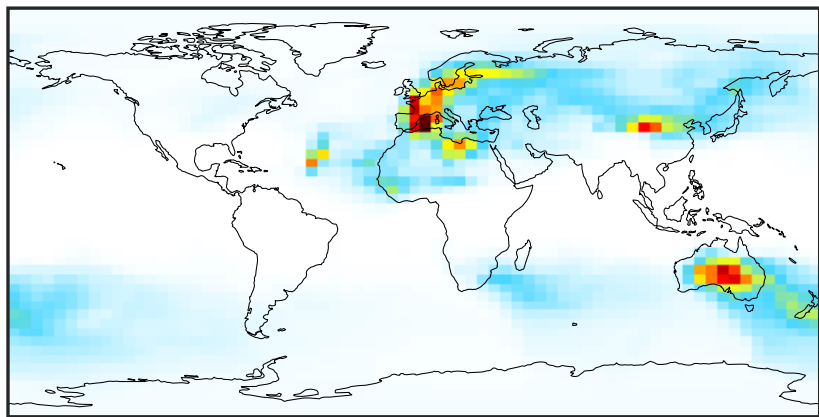
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00 unitless

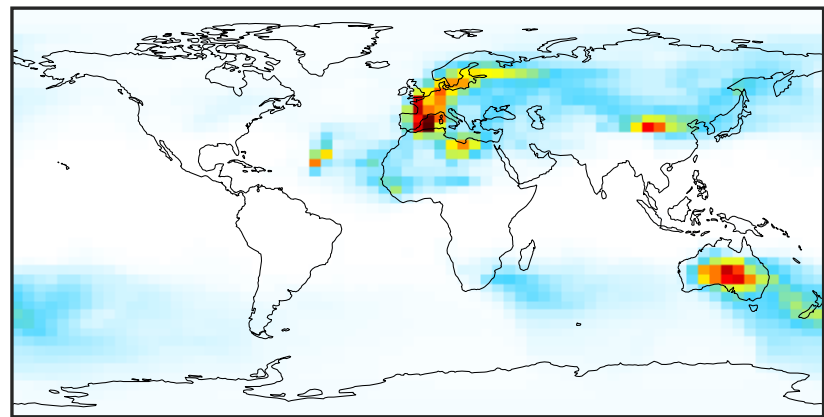
SpeciesConcVW_DST3 (Oct2019)

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



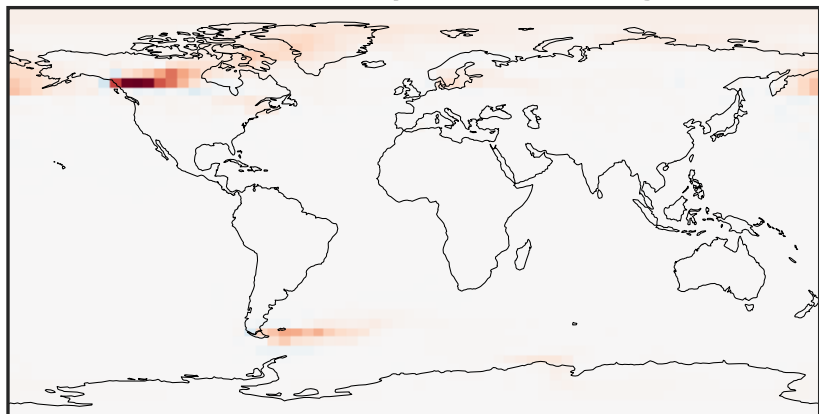
0.0000 0.0797 0.1594 0.2391 0.3188
 $\mu\text{g}/\text{m}^3$

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



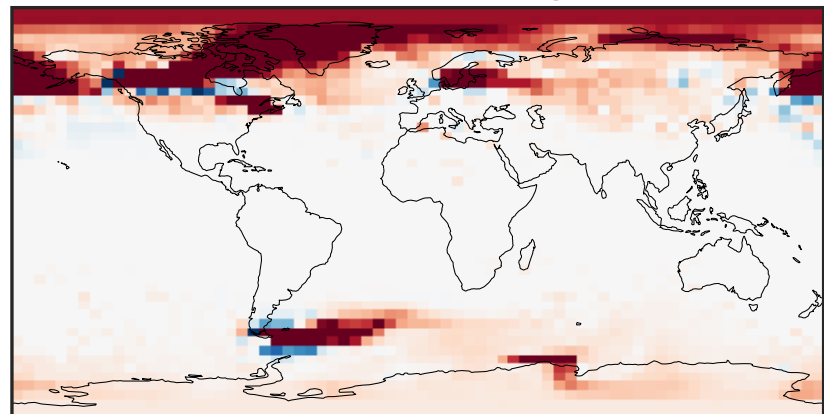
0.0000 0.0797 0.1594 0.2391 0.3188
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



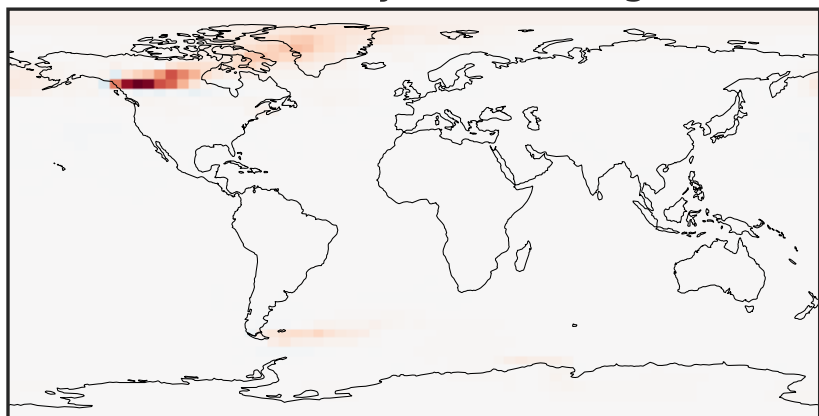
-5 0 5
 $\mu\text{g}/\text{m}^3$ $1\text{e}-7$

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



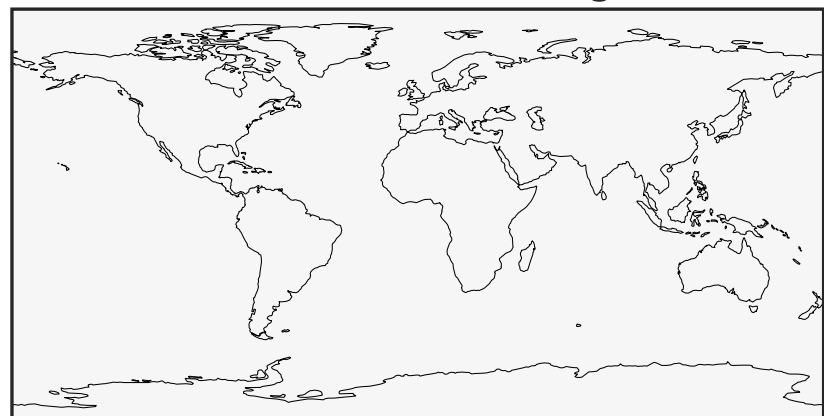
-4 0 4
 $\mu\text{g}/\text{m}^3$ $1\text{e}-8$

Ratio
Dev/Ref, Dynamic Range



0.9997303 1.000000 1.0002698
unitless

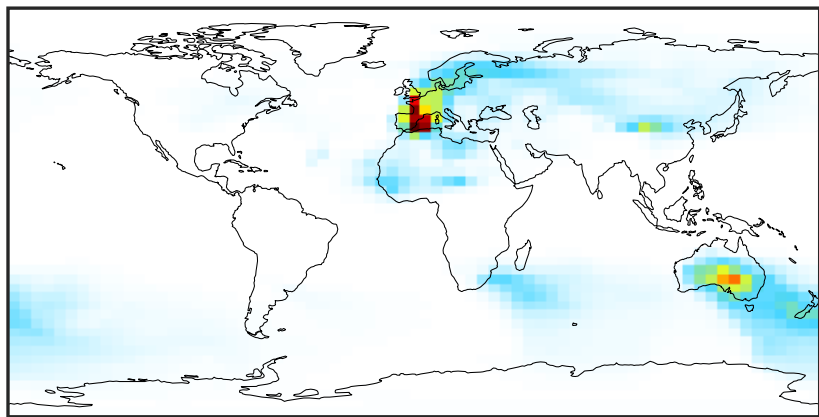
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

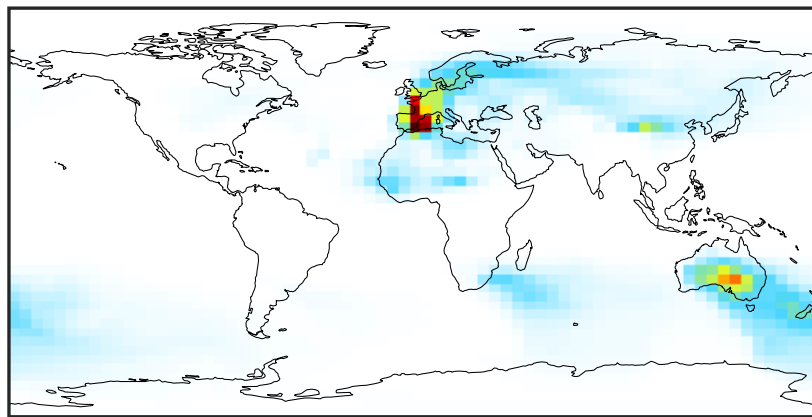
SpeciesConcVV_DST4 (Oct2019)

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



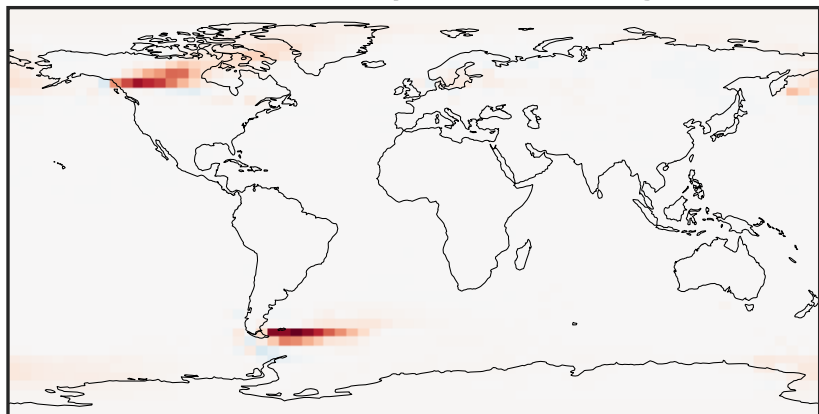
0.0000 0.0445 0.0890 0.1335 0.1780
 $\mu\text{g}/\text{m}^3$

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



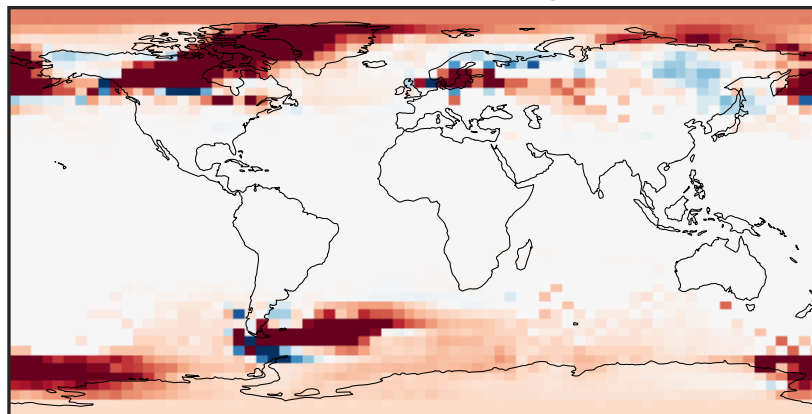
0.0000 0.0445 0.0890 0.1335 0.1780
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



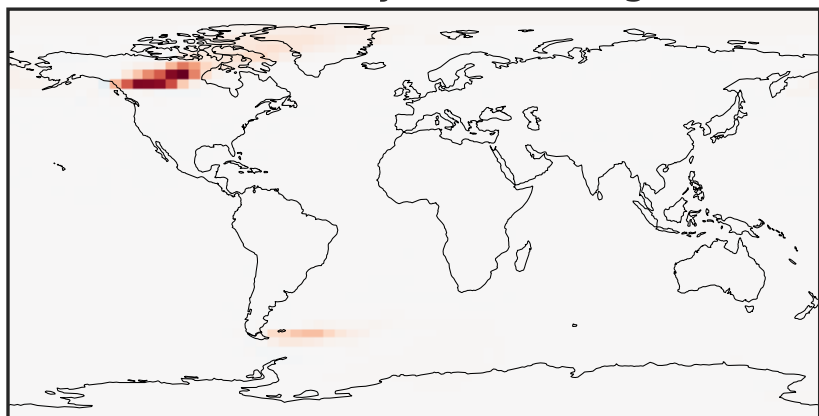
-8 0 8
 $\mu\text{g}/\text{m}^3$ $1\text{e}-8$

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



-4 0 4
 $\mu\text{g}/\text{m}^3$ $1\text{e}-9$

Ratio
Dev/Ref, Dynamic Range



0.9996038 1.000000 1.0003964
unitless

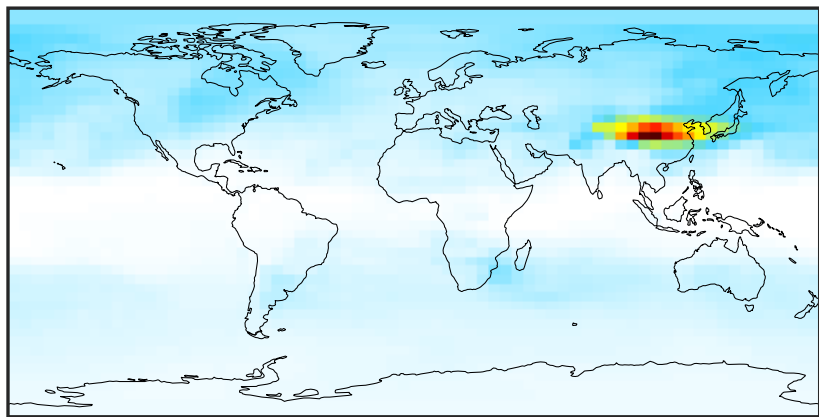
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

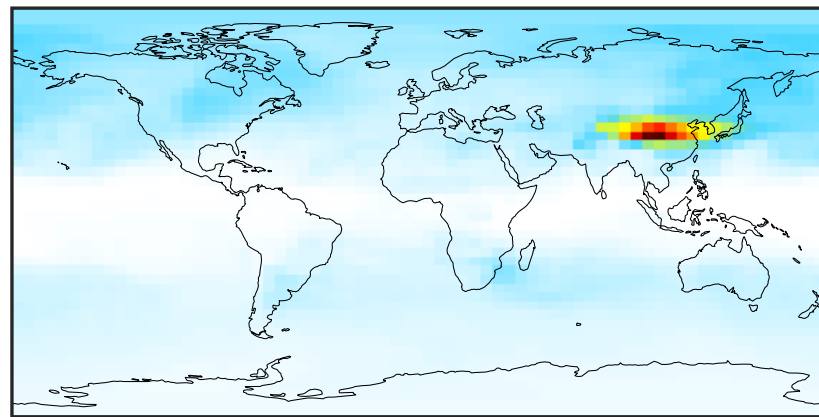
SpeciesConcVV_NH4 (Oct2019)

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



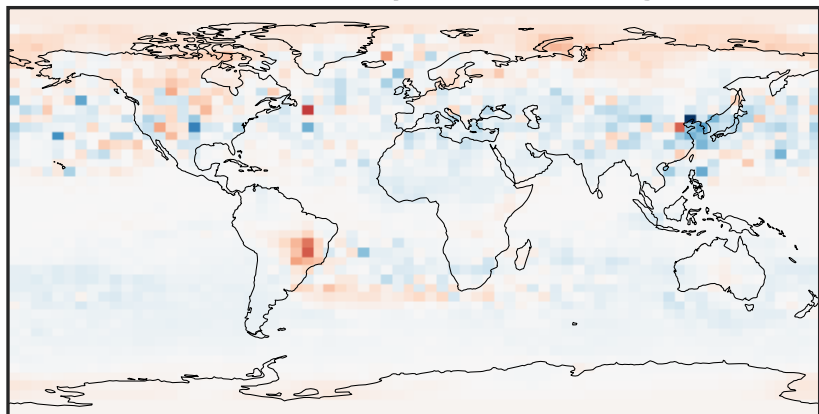
0.0002 0.0891 0.1780 0.2669 0.3558
 $\mu\text{g}/\text{m}^3$

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



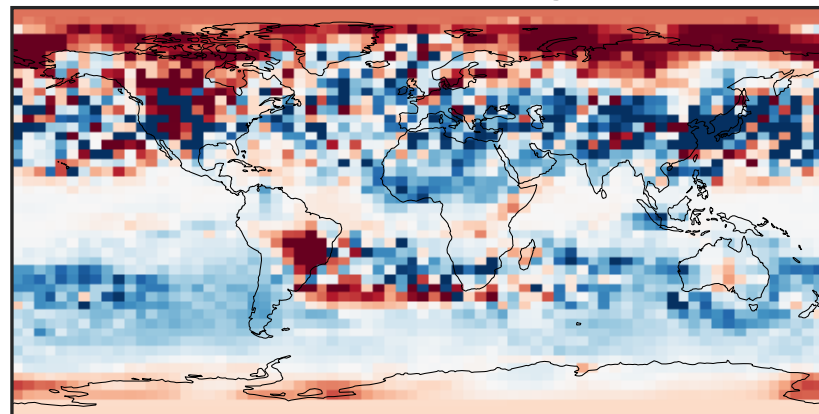
0.0002 0.0891 0.1780 0.2669 0.3558
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



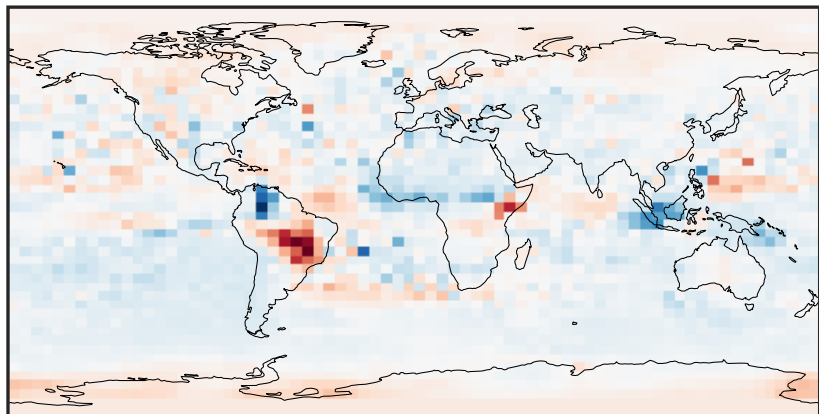
-0.00025 0.00000 0.00025
 $\mu\text{g}/\text{m}^3$

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



-4 0 4
 $\mu\text{g}/\text{m}^3$ $1\text{e}-5$

Ratio
Dev/Ref, Dynamic Range



0.98433 0.99217 1.00000 1.00796 1.01592
unitless

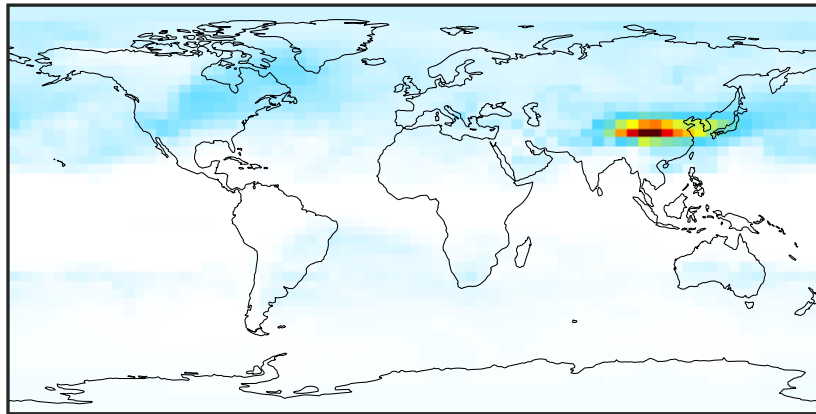
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

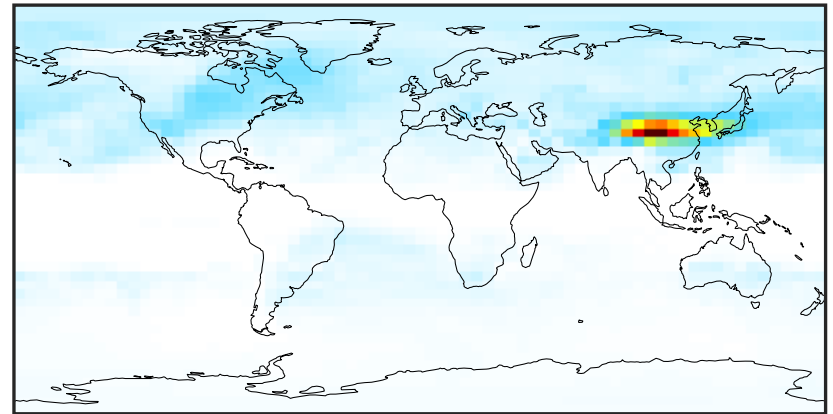
SpeciesConcVV_NIT (Oct2019)

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



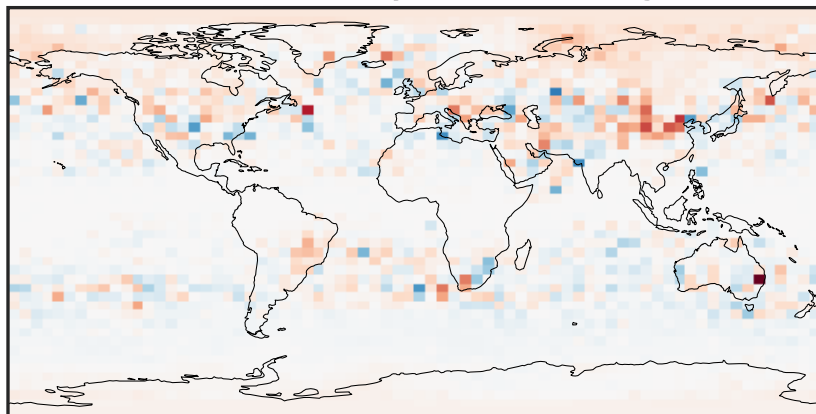
0.0000 0.1509 0.3018 0.4527 0.6036
µg/m³

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



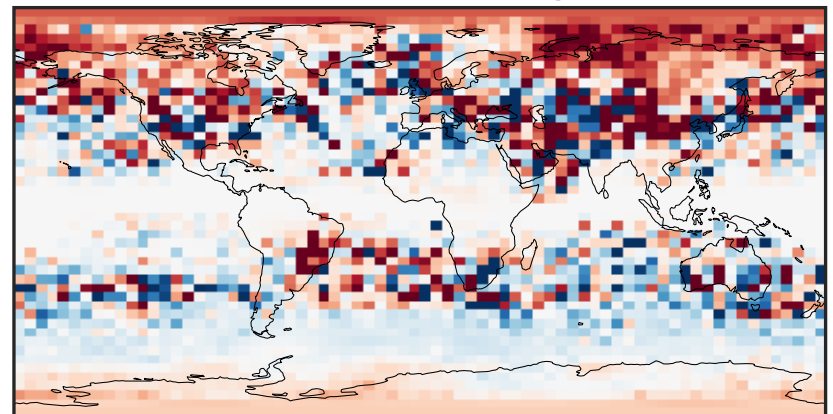
0.0000 0.1509 0.3018 0.4527 0.6036
µg/m³

Difference
Dev - Ref, Dynamic Range



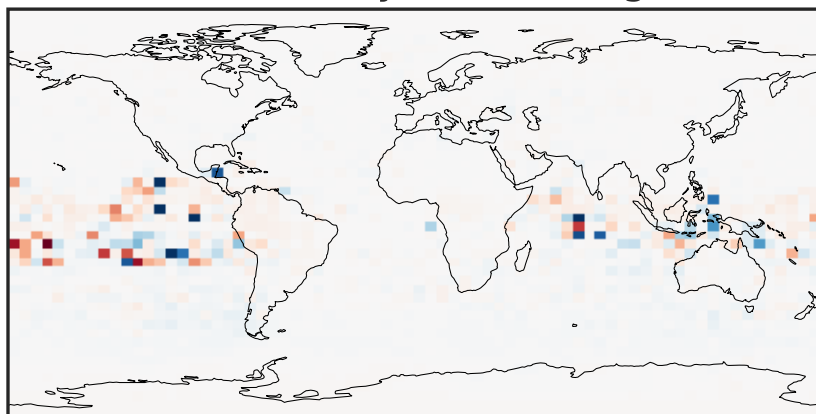
-0.002 0.000 0.002
µg/m³

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



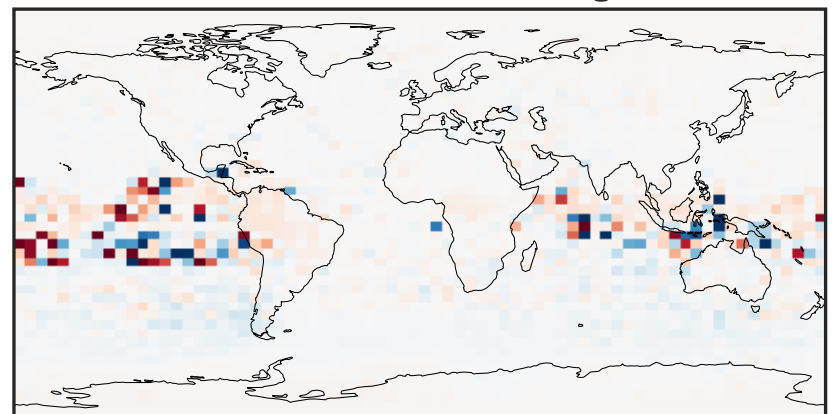
-0.0004 0.0000 0.0004
µg/m³

Ratio
Dev/Ref, Dynamic Range



0.200 0.600 1.000 2.996 4.993
unitless

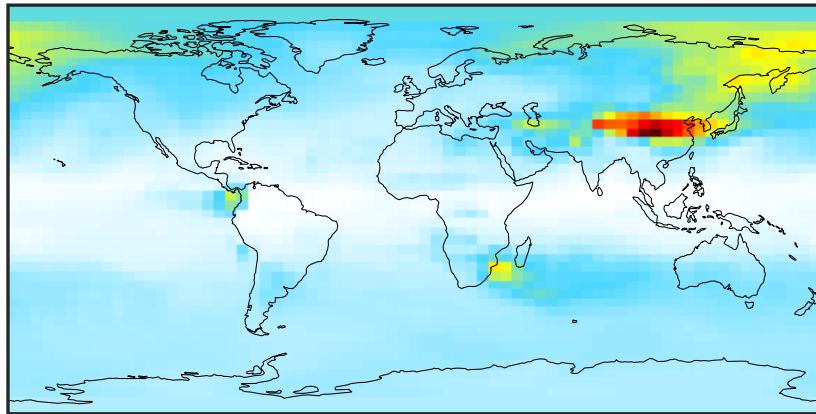
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

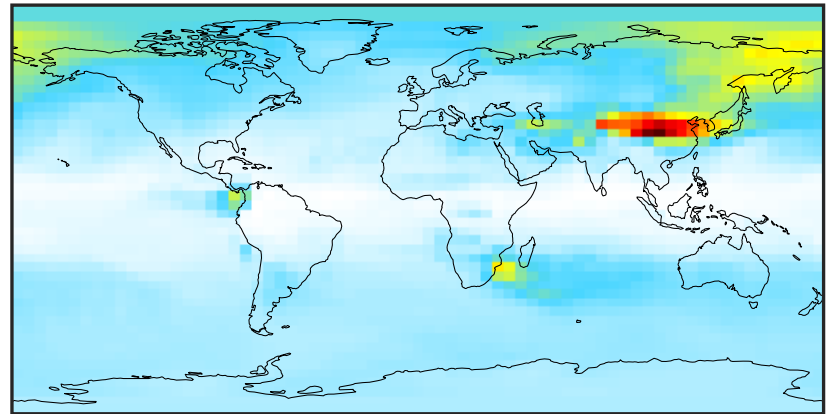
SpeciesConcVV_S04 (Oct2019)

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



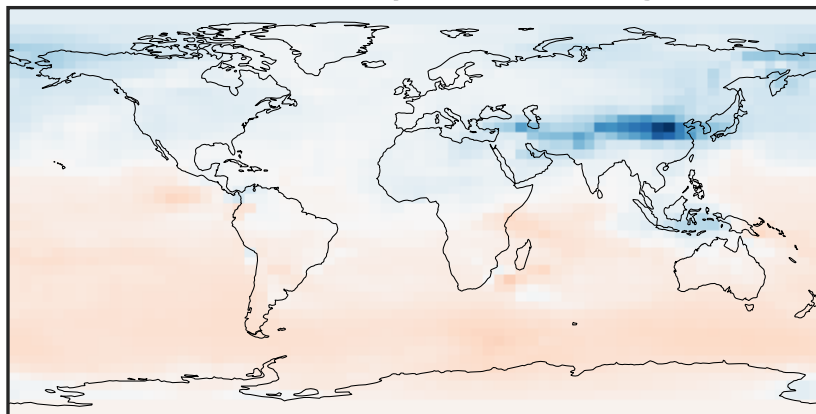
0.0035 0.1168 0.2301 0.3433 0.4566
 $\mu\text{g}/\text{m}^3$

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



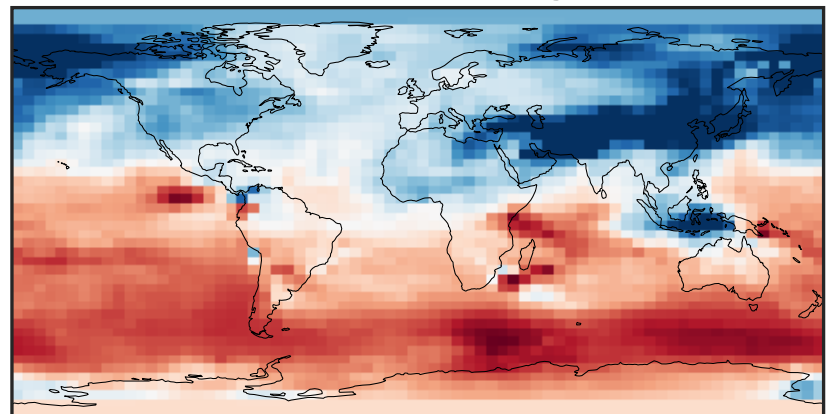
0.0035 0.1168 0.2301 0.3433 0.4566
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



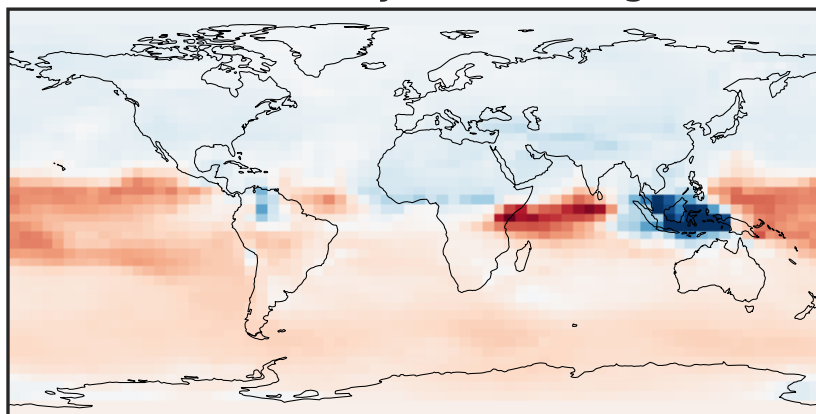
-0.001 0.000 0.001
 $\mu\text{g}/\text{m}^3$

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



-0.00025 0.00000 0.00025
 $\mu\text{g}/\text{m}^3$

Ratio
Dev/Ref, Dynamic Range



0.97325 0.98662 1.00000 1.01374 1.02749
unitless

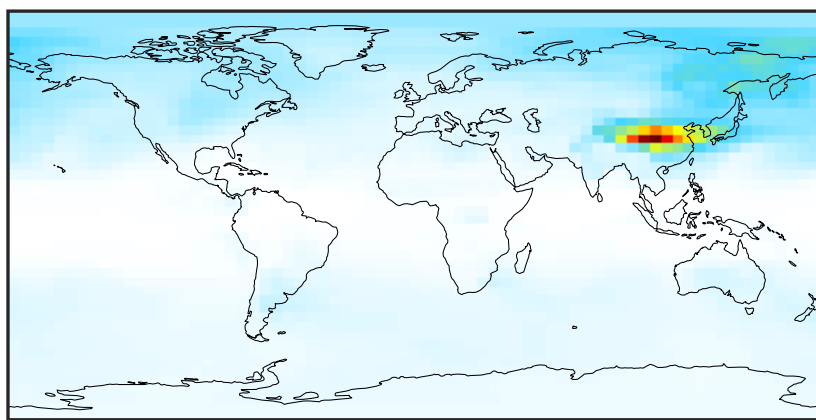
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

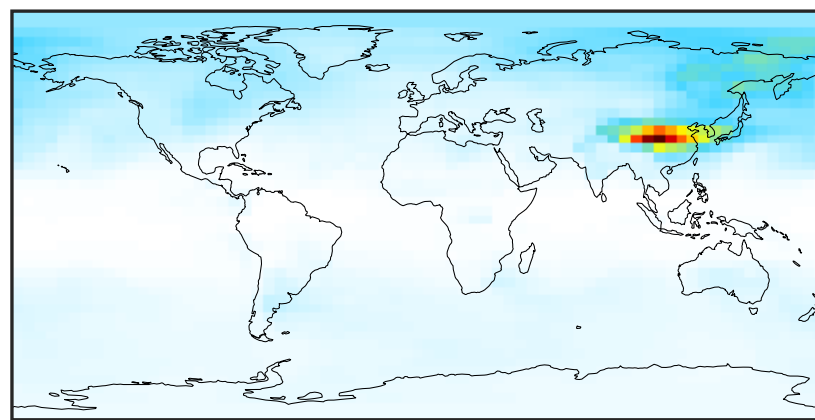
SpeciesConcVV_HMS (Oct2019)

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



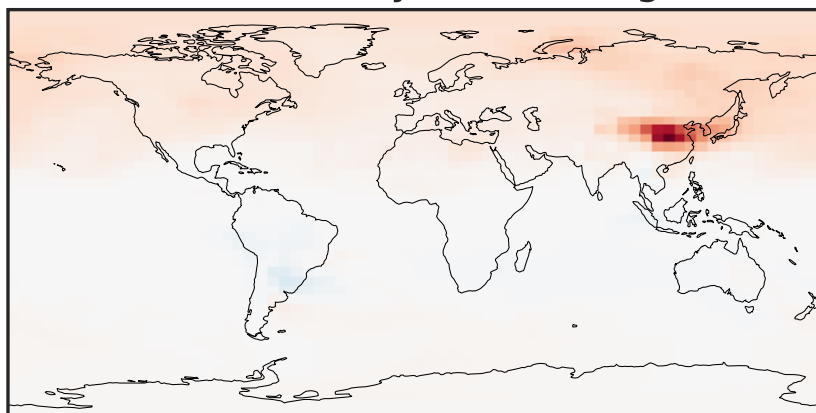
0.015 0.030 0.045
 $\mu\text{g}/\text{m}^3$

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



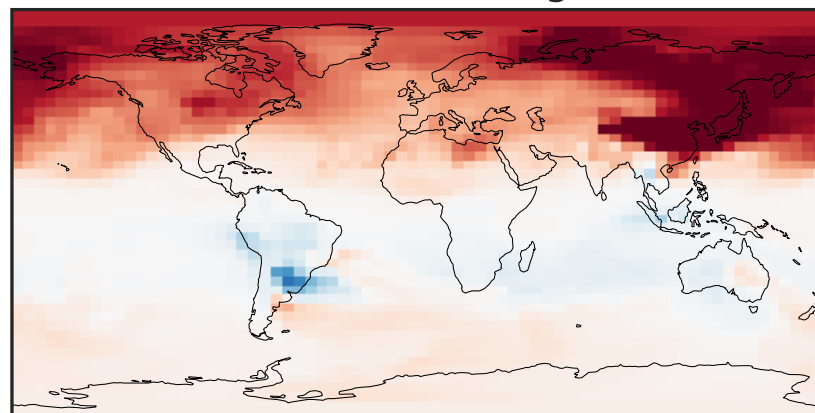
0.015 0.030 0.045
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



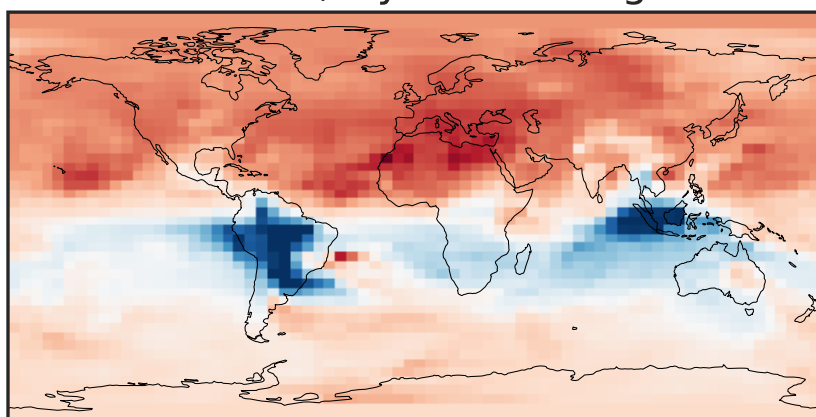
-0.001 0.000 0.001
 $\mu\text{g}/\text{m}^3$

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



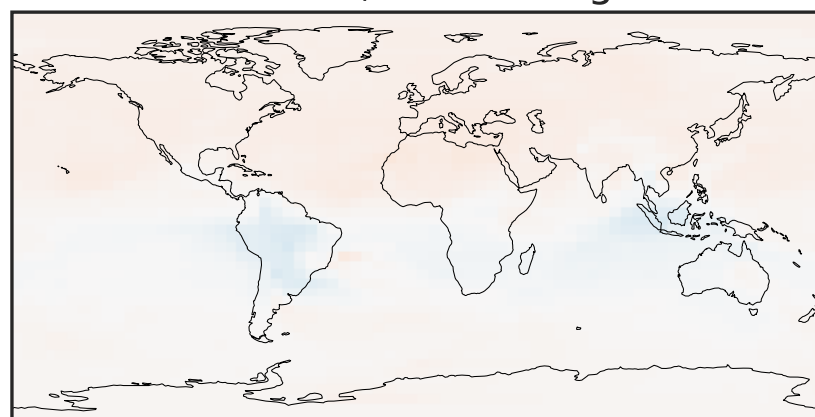
-0.0002 0.0000 0.0002
 $\mu\text{g}/\text{m}^3$

Ratio
Dev/Ref, Dynamic Range



0.9224 0.9612 1.0000 1.0421 1.0842
unitless

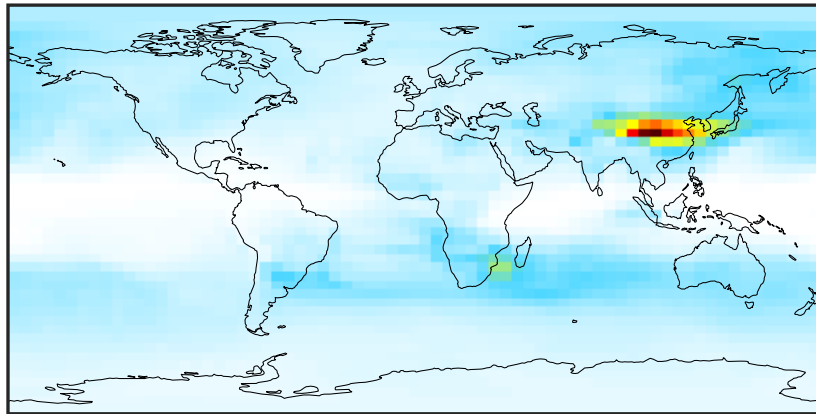
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

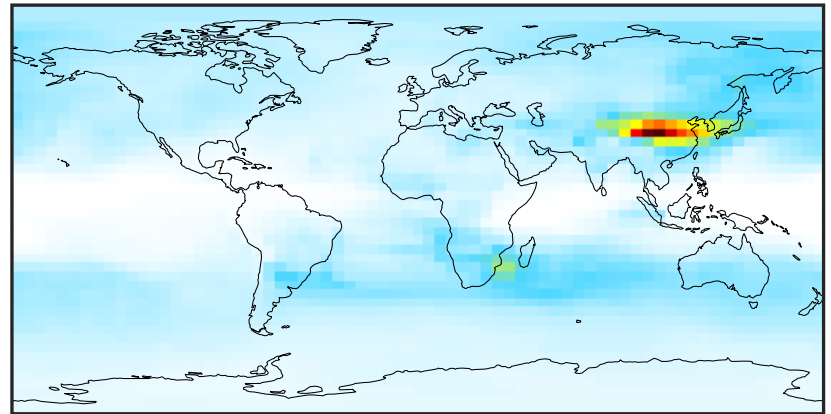
SpeciesConcVV_BCPI (Oct2019)

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



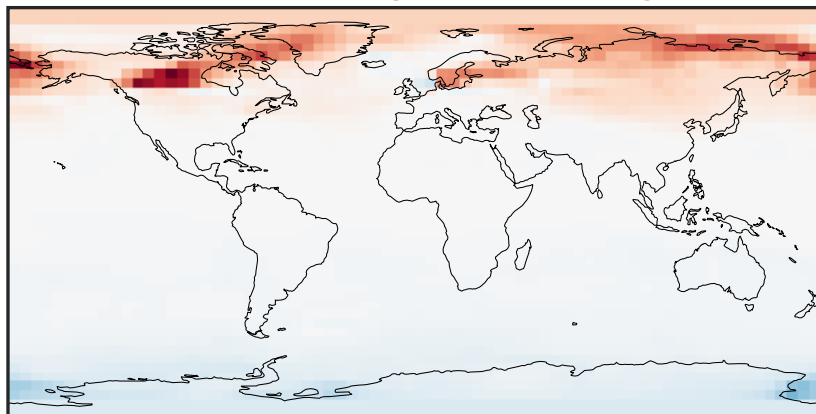
0.015 0.030
µg/m³

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



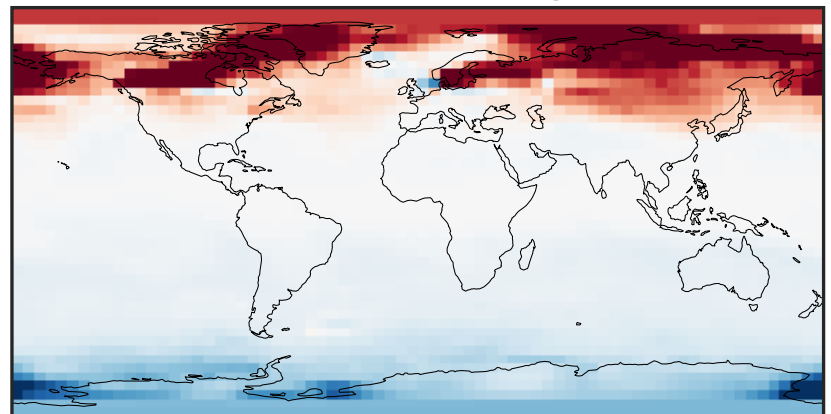
0.015 0.030
µg/m³

Difference
Dev - Ref, Dynamic Range



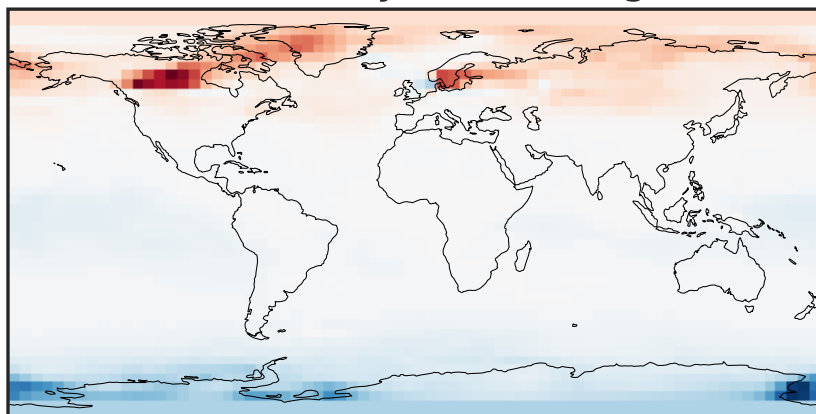
-4 0 4
µg/m³ 1e-6

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



-1.5 0.0 1.5
µg/m³ 1e-6

Ratio
Dev/Ref, Dynamic Range



0.998134 0.999067 1.000000 1.000935 1.001870
unitless

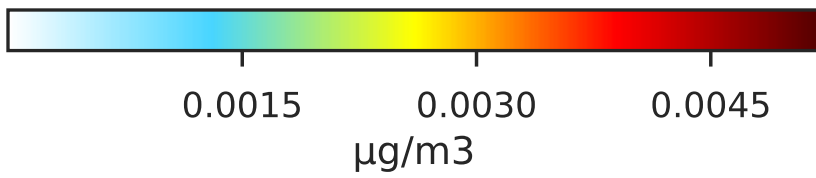
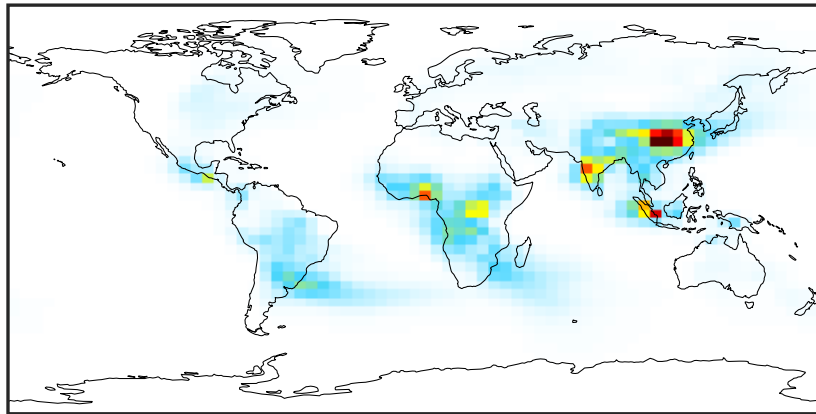
Ratio
Dev/Ref, Fixed Range



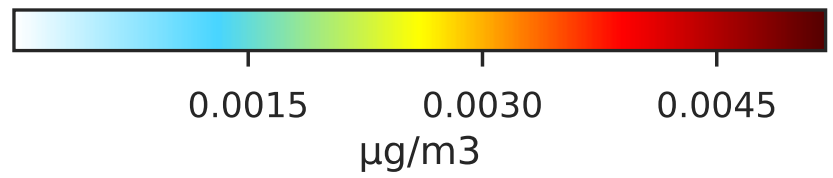
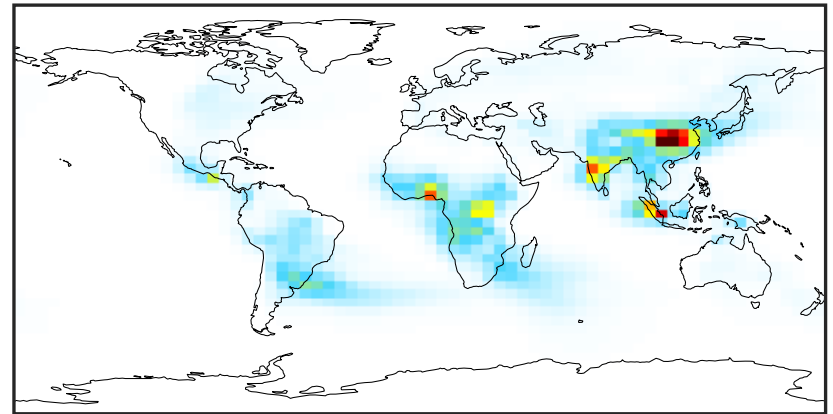
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_BCPO (Oct2019)

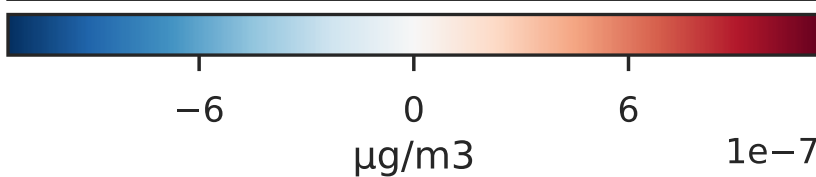
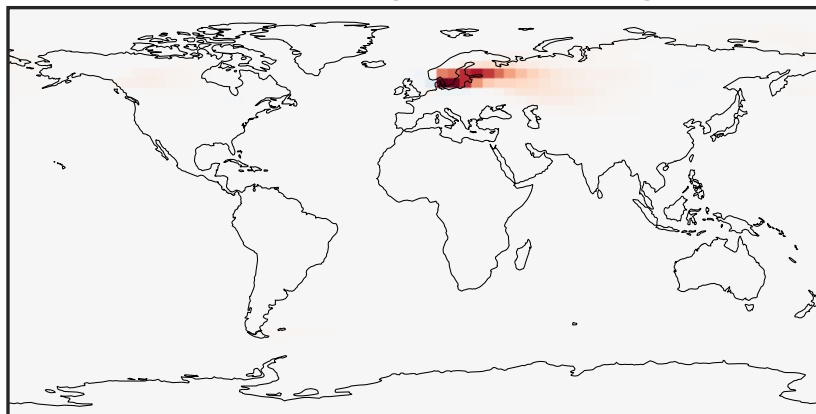
14.2.0-rc.2 (Ref)
4.0x5.0



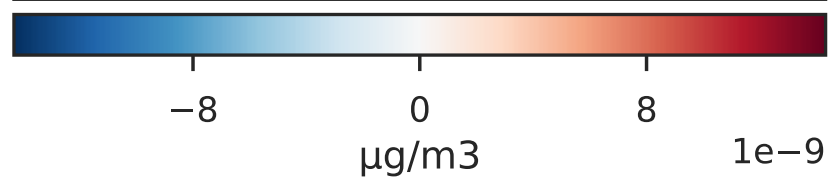
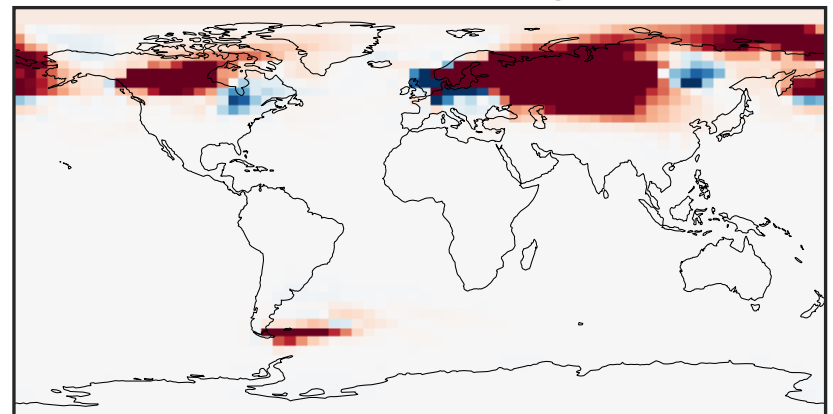
14.3.0-rc.0 (Dev)
4.0x5.0



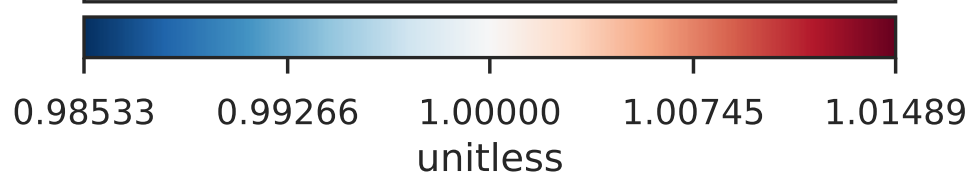
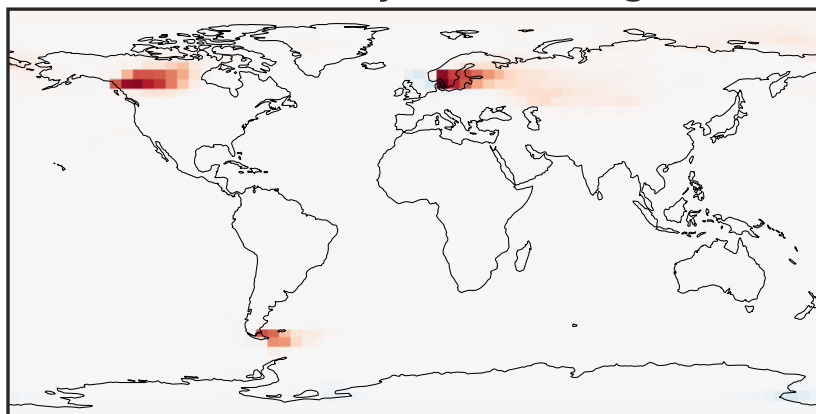
Difference
Dev - Ref, Dynamic Range



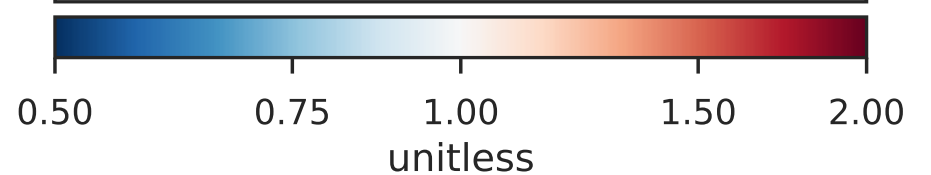
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

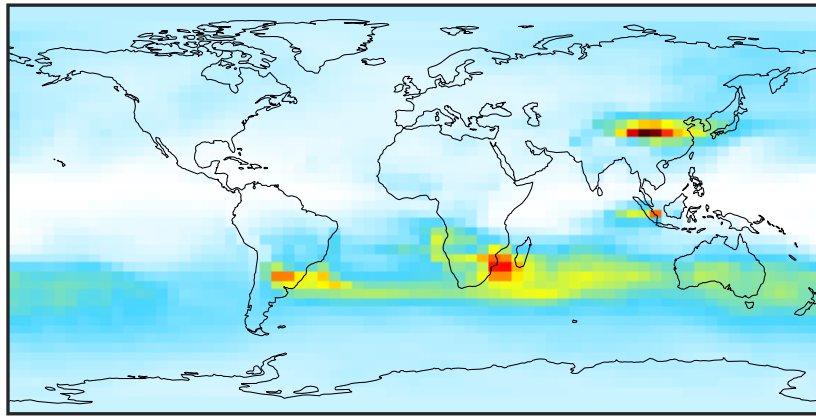


Ratio
Dev/Ref, Fixed Range



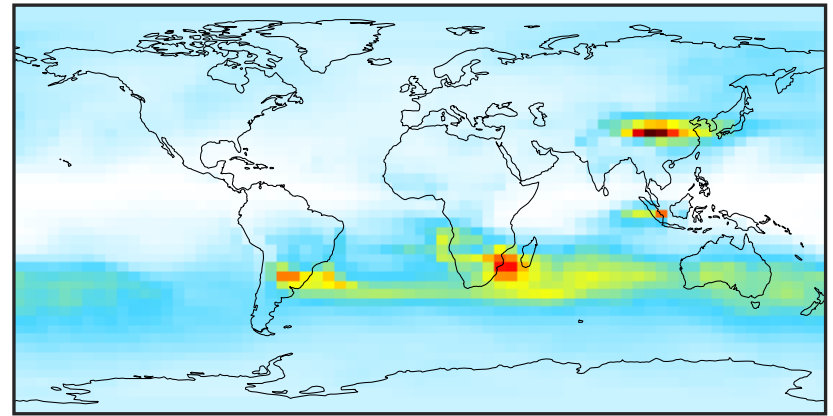
SpeciesConcVV_OCPI (Oct2019)

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



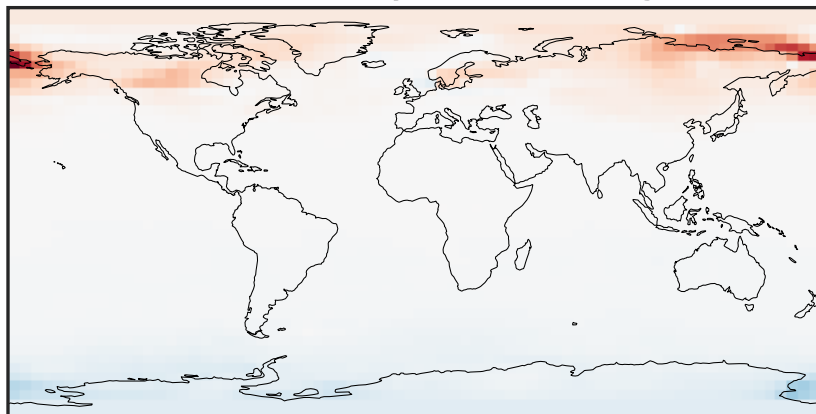
0.0001 0.0290 0.0579 0.0868 0.1158
 $\mu\text{g}/\text{m}^3$

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



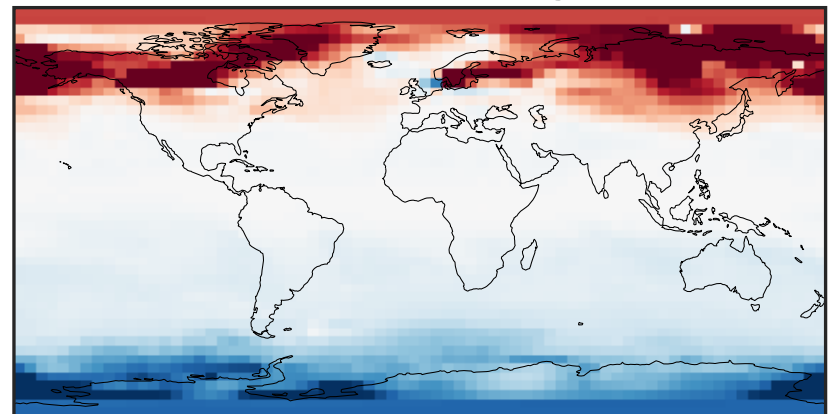
0.0001 0.0290 0.0579 0.0868 0.1158
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



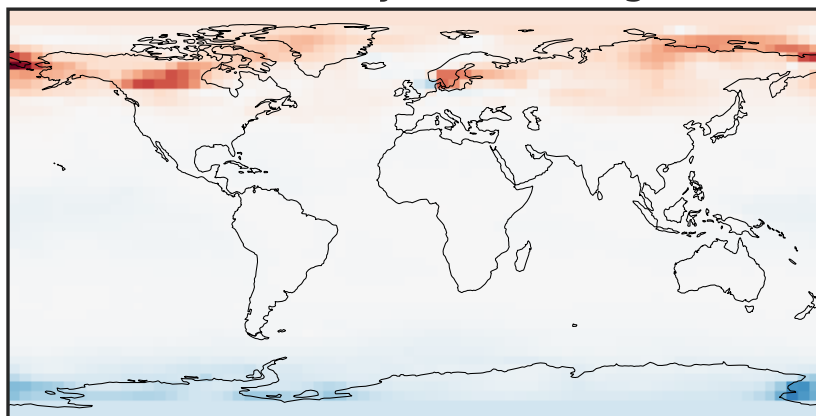
-2 0 2
 $\mu\text{g}/\text{m}^3$ $1\text{e}-5$

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



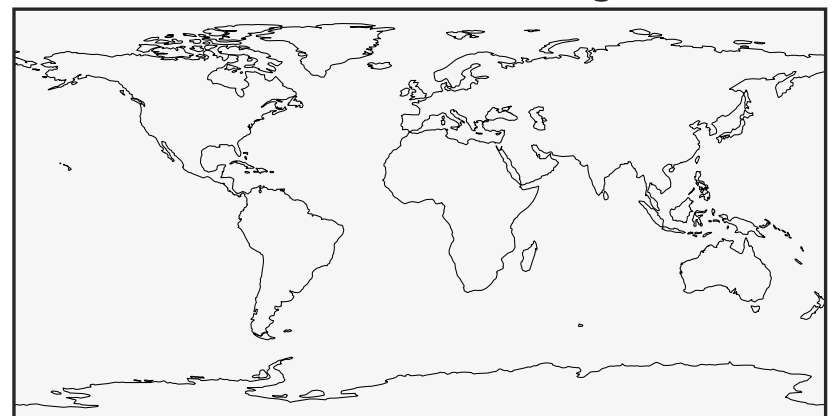
-3 0 3
 $\mu\text{g}/\text{m}^3$ $1\text{e}-6$

Ratio
Dev/Ref, Dynamic Range



0.997432 0.998716 1.000000 1.001287 1.002575
unitless

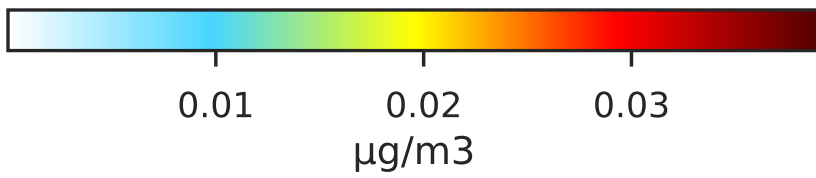
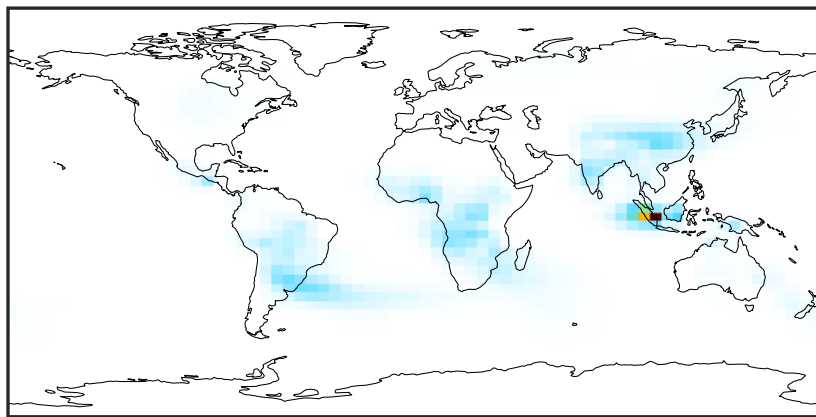
Ratio
Dev/Ref, Fixed Range



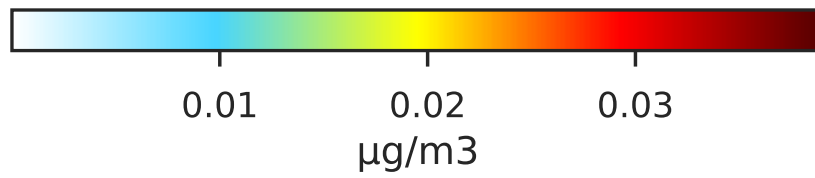
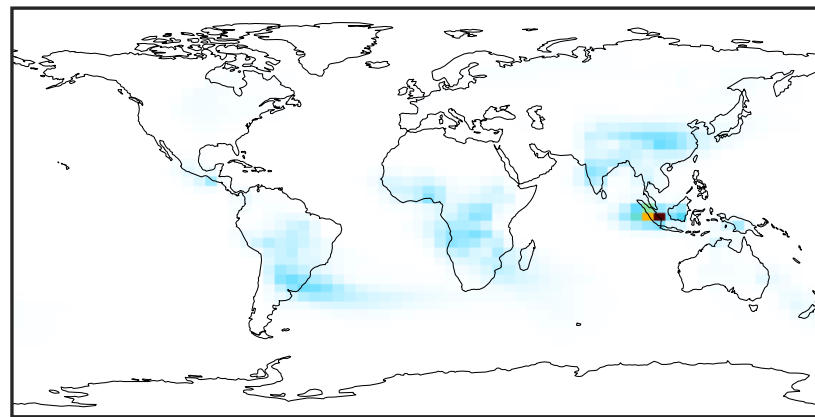
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_OCPO (Oct2019)

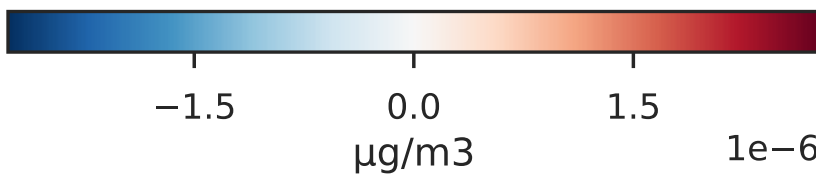
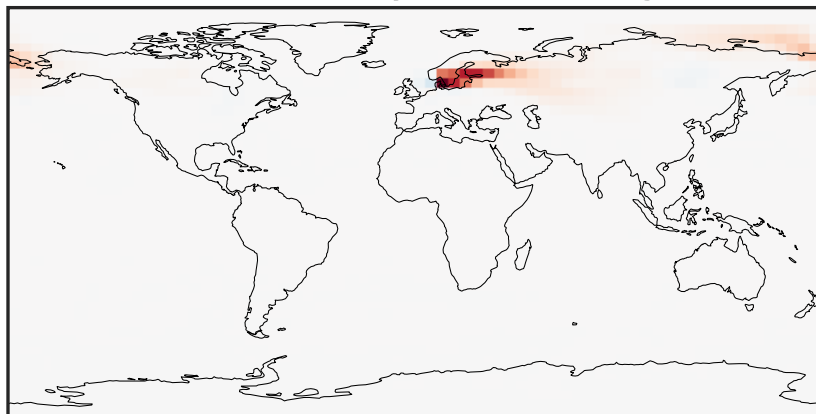
14.2.0-rc.2 (Ref)
4.0x5.0



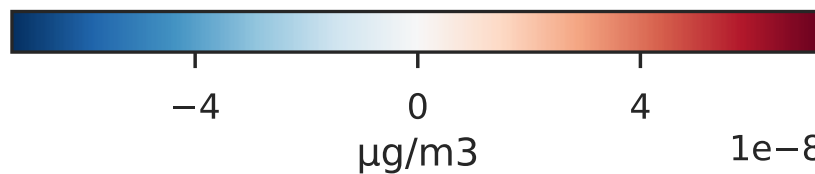
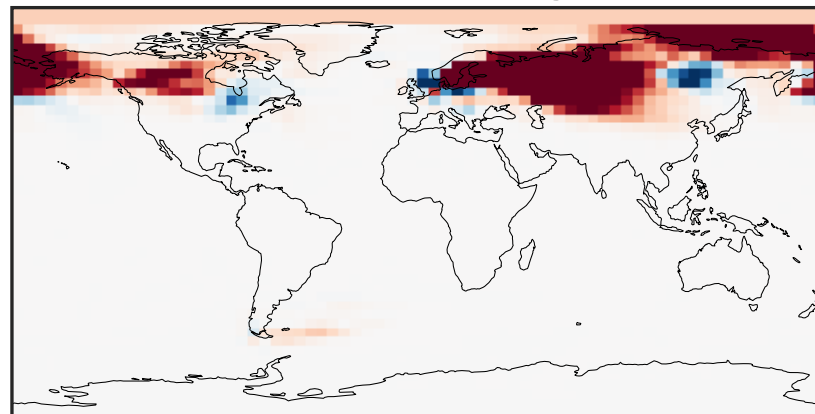
14.3.0-rc.0 (Dev)
4.0x5.0



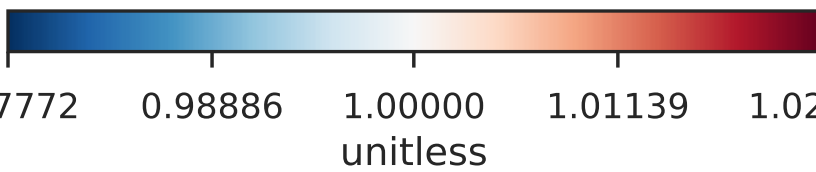
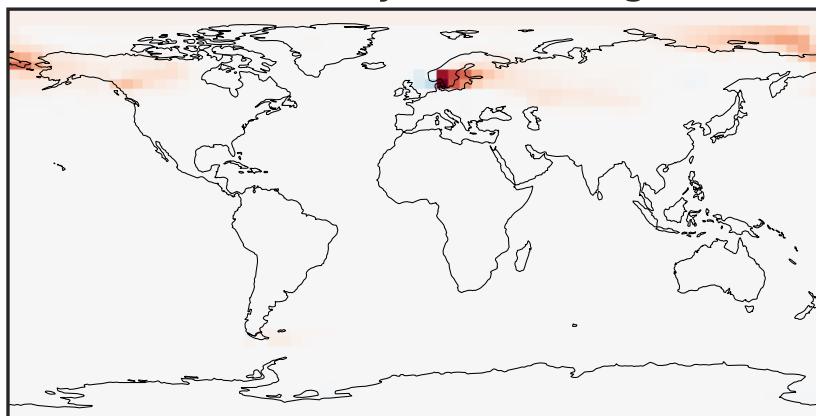
Difference
Dev - Ref, Dynamic Range



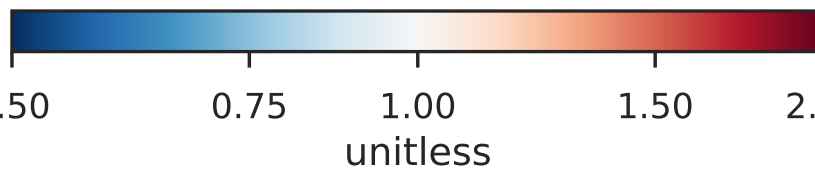
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

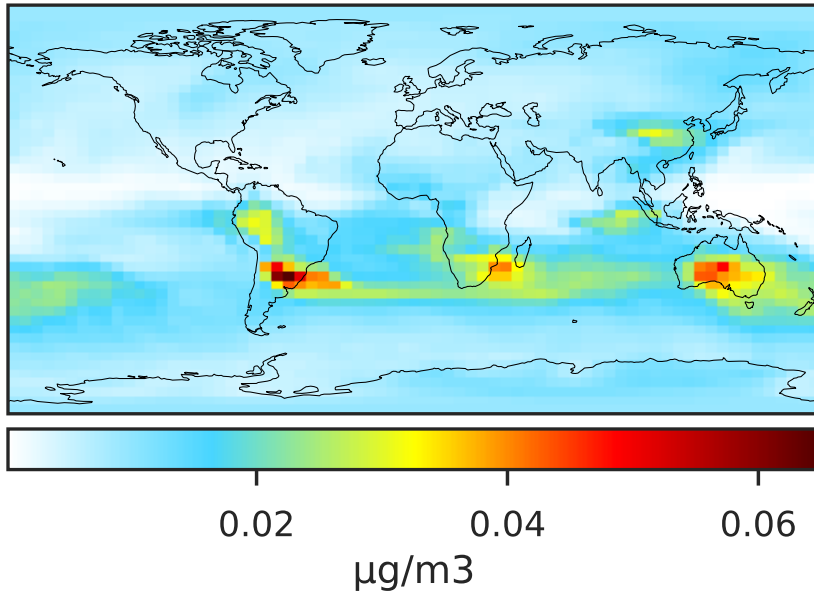


Ratio
Dev/Ref, Fixed Range

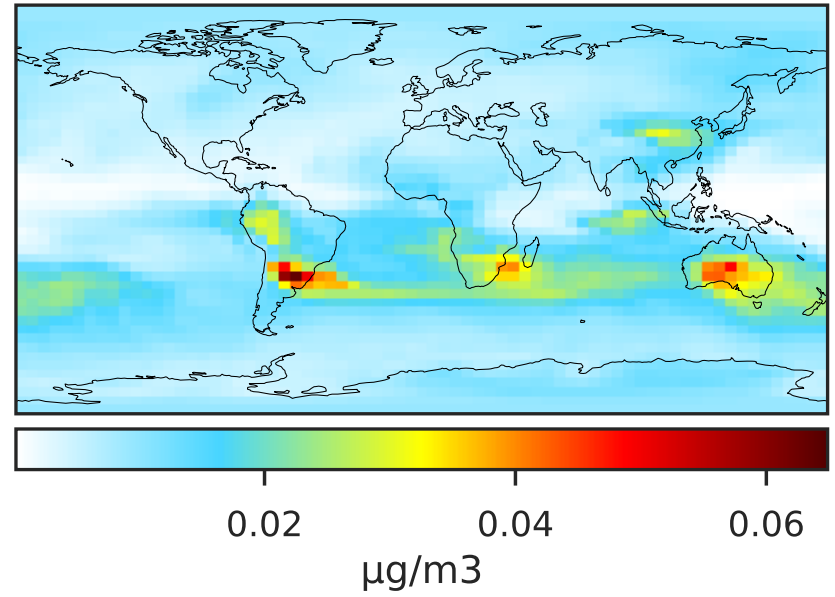


SpeciesConcVV_Complex_SOA (Oct2019)

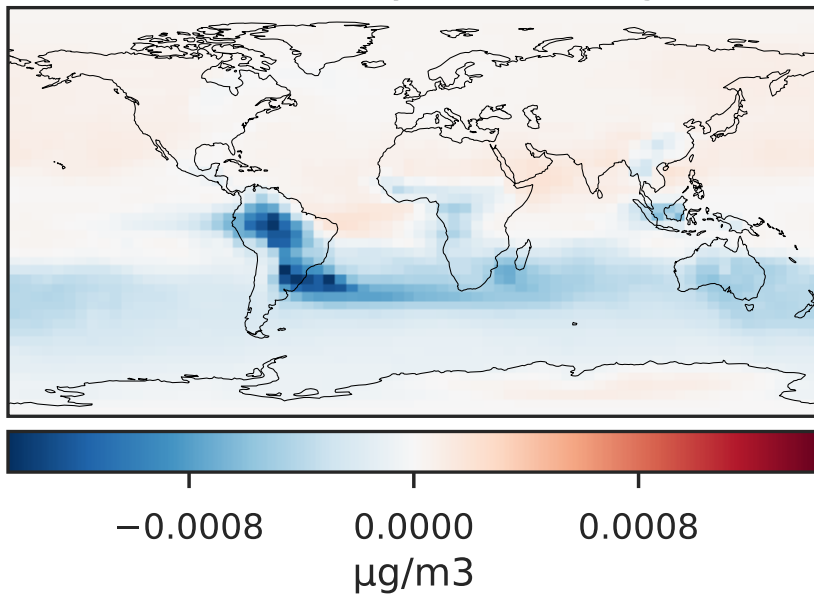
14.2.0-rc.2 (Ref)
4.0x5.0



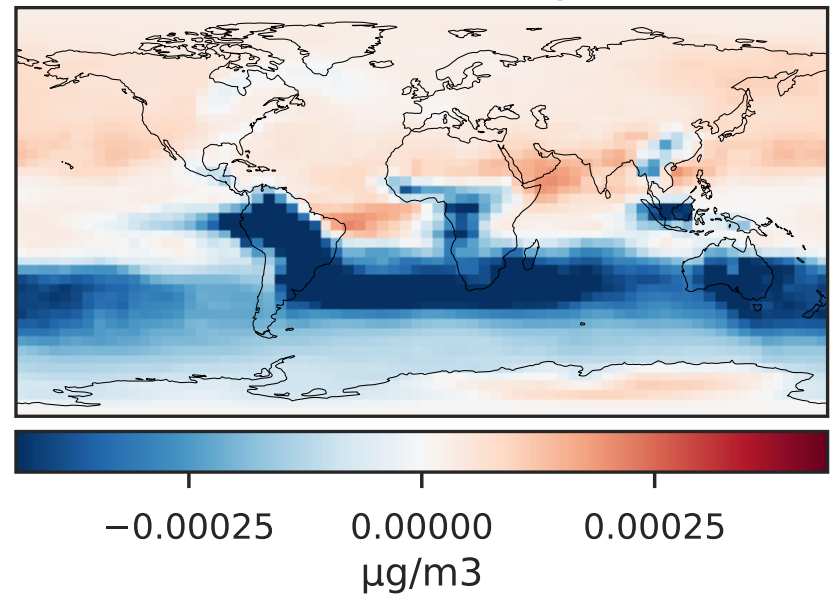
14.3.0-rc.0 (Dev)
4.0x5.0



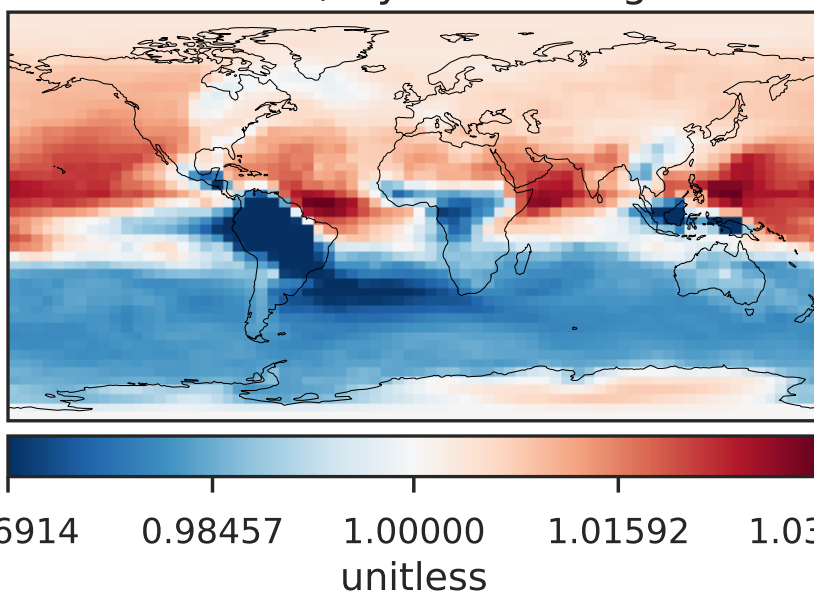
Difference
Dev - Ref, Dynamic Range



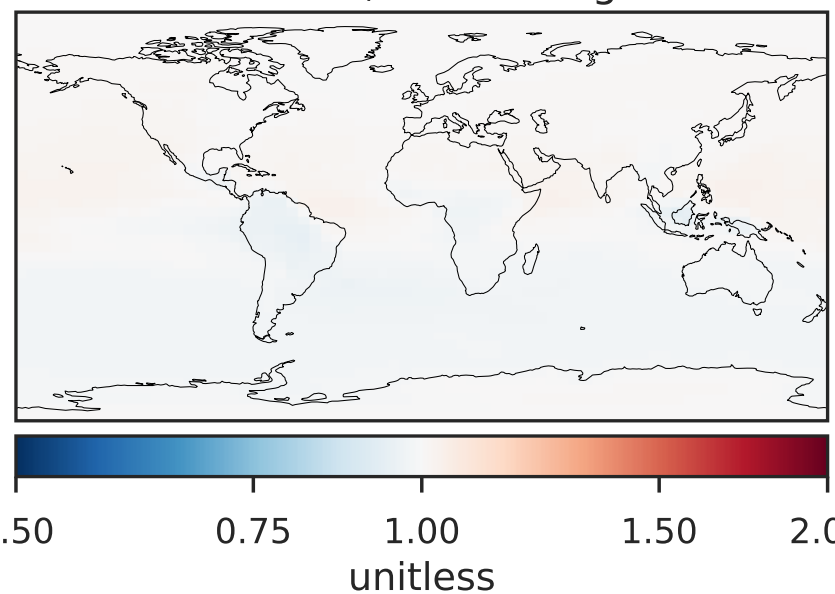
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

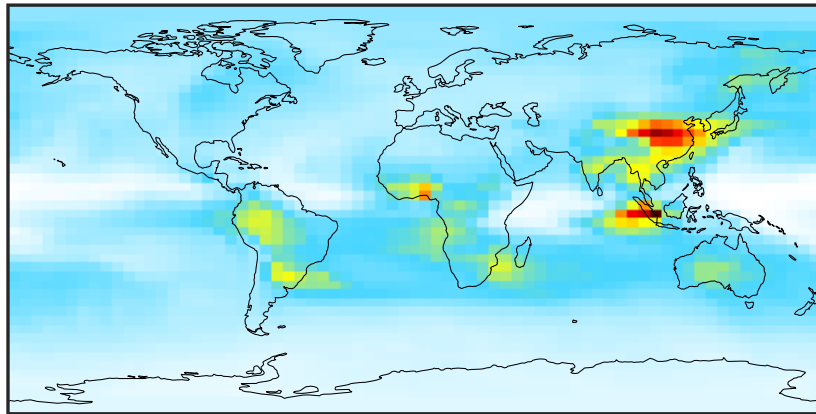


Ratio
Dev/Ref, Fixed Range



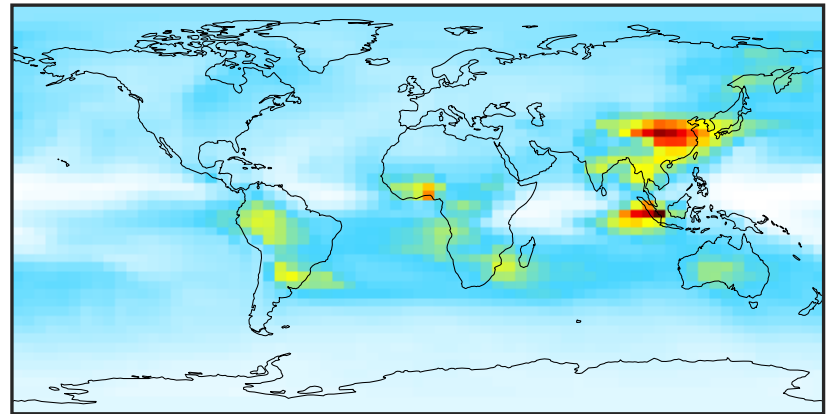
SpeciesConcVV_Simple_SOA (Oct2019)

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



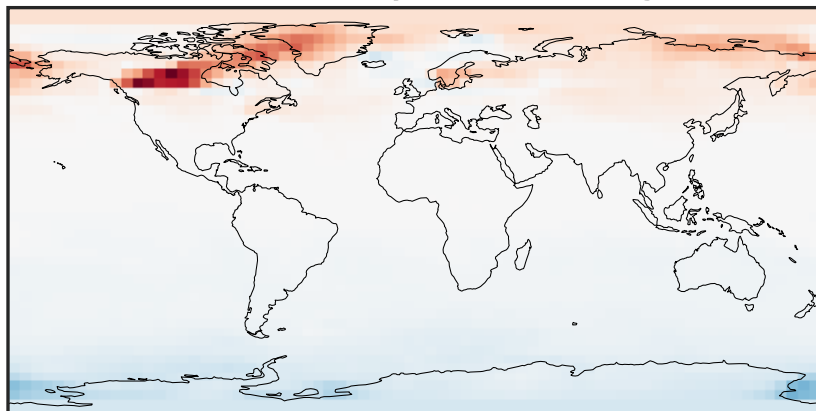
0.0018 0.1039 0.2060 0.3081 0.4103
 $\mu\text{g}/\text{m}^3$

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



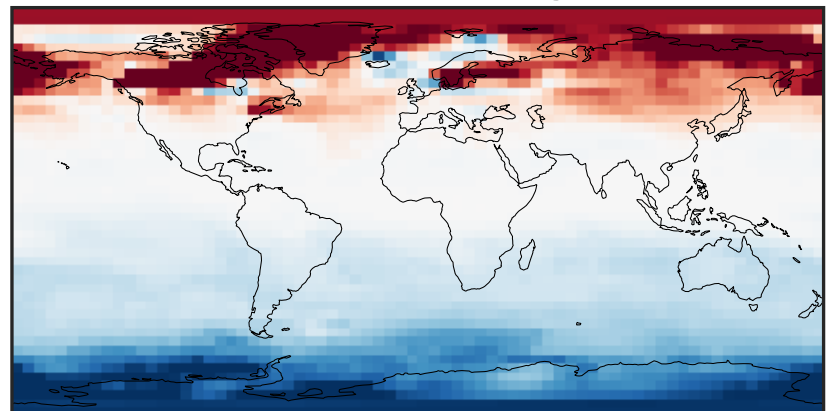
0.0018 0.1039 0.2060 0.3081 0.4103
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



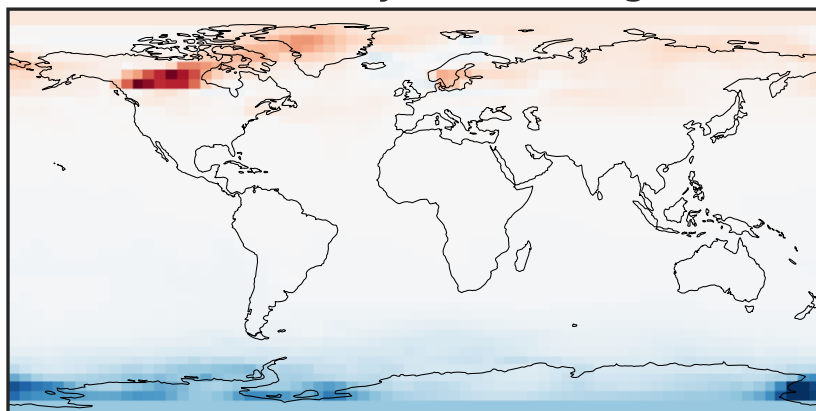
-4 0 4
 $\mu\text{g}/\text{m}^3$ $1\text{e}-5$

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



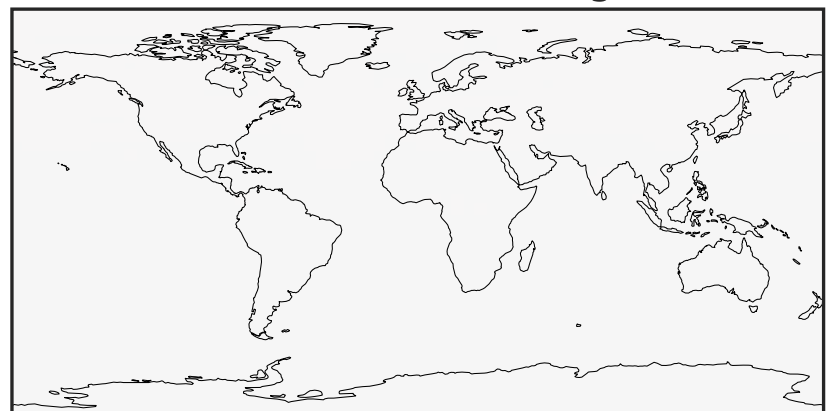
-8 0 8
 $\mu\text{g}/\text{m}^3$ $1\text{e}-6$

Ratio
Dev/Ref, Dynamic Range



0.998178 0.999089 1.000000 1.000913 1.001825
unitless

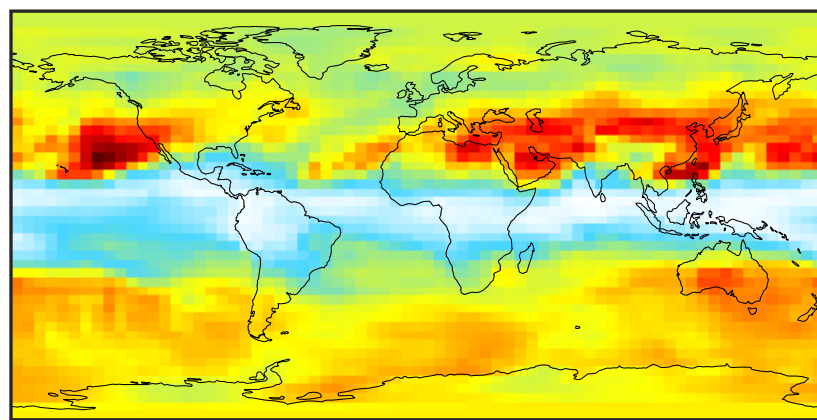
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

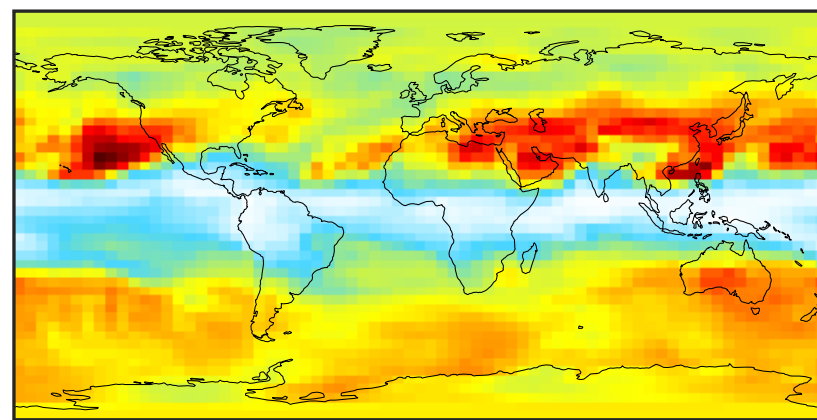
SpeciesConcVV_AERI (Oct2019)

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



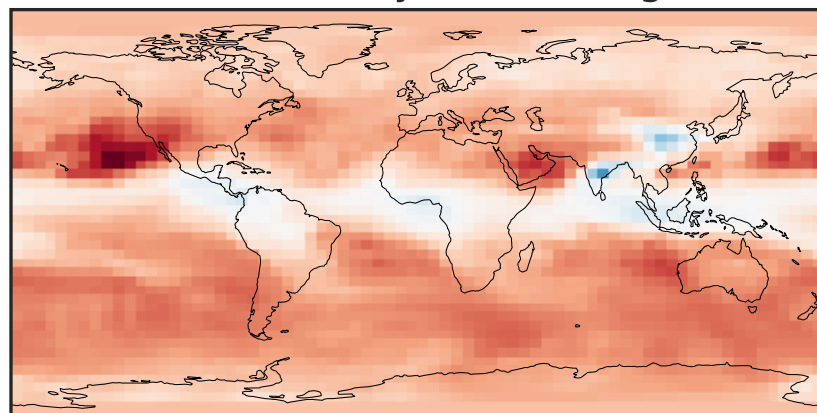
0.00025 0.00050 0.00075
 $\mu\text{g}/\text{m}^3$

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



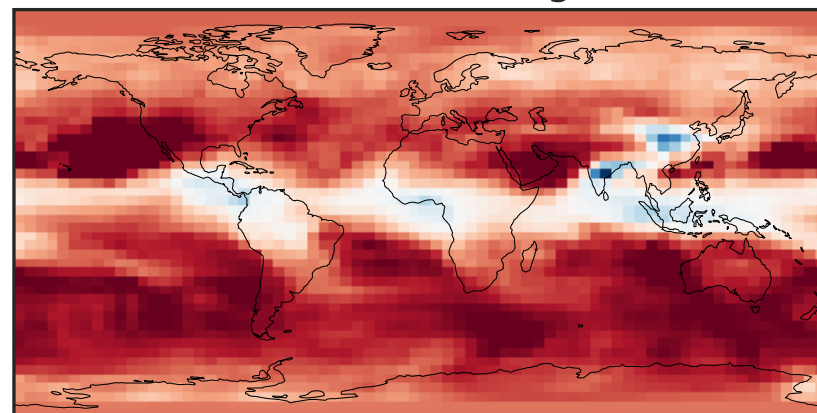
0.00025 0.00050 0.00075
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



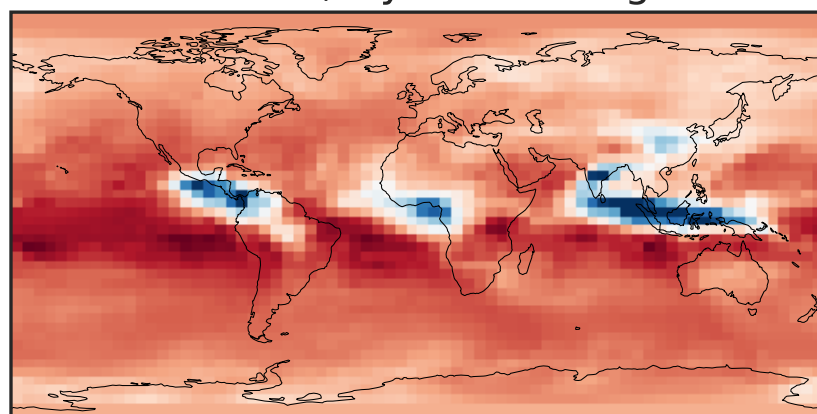
-8 0 8
 $\mu\text{g}/\text{m}^3 \quad 1\text{e}-6$

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



-4 0 4
 $\mu\text{g}/\text{m}^3 \quad 1\text{e}-6$

Ratio
Dev/Ref, Dynamic Range



0.97779 0.98889 1.00000 1.01136 1.02271
unitless

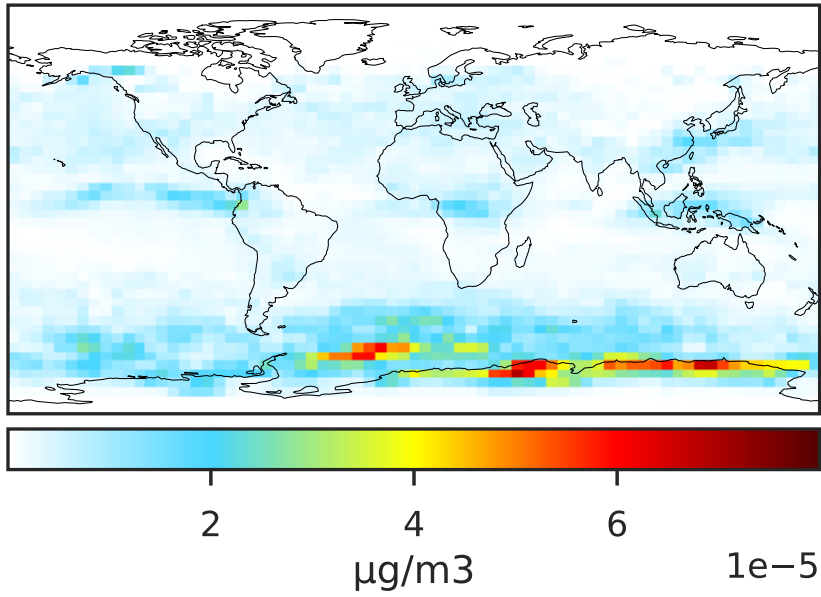
Ratio
Dev/Ref, Fixed Range



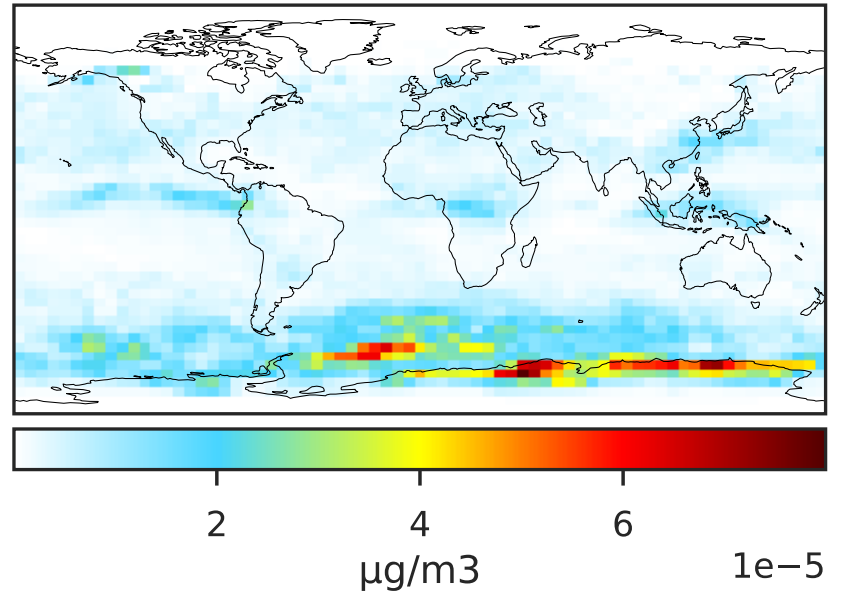
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_BrSALA (Oct2019)

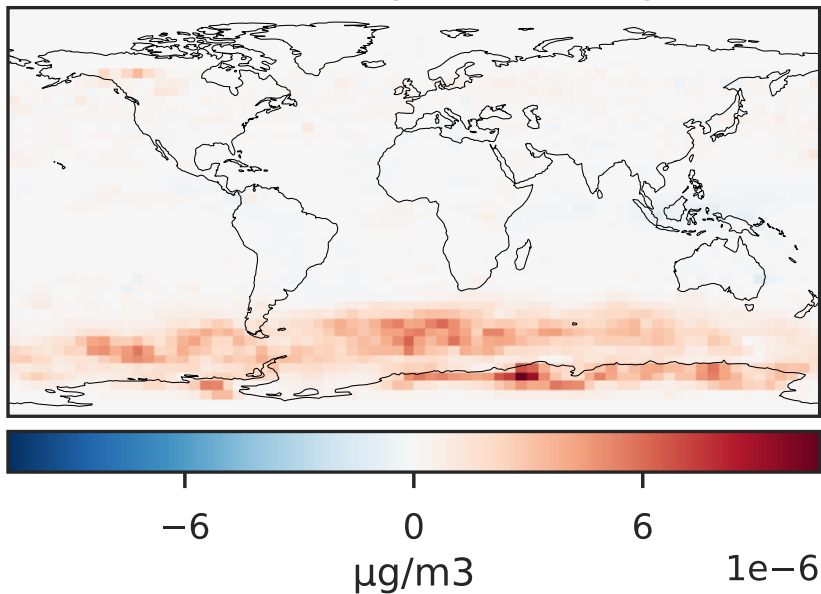
14.2.0-rc.2 (Ref)
4.0x5.0



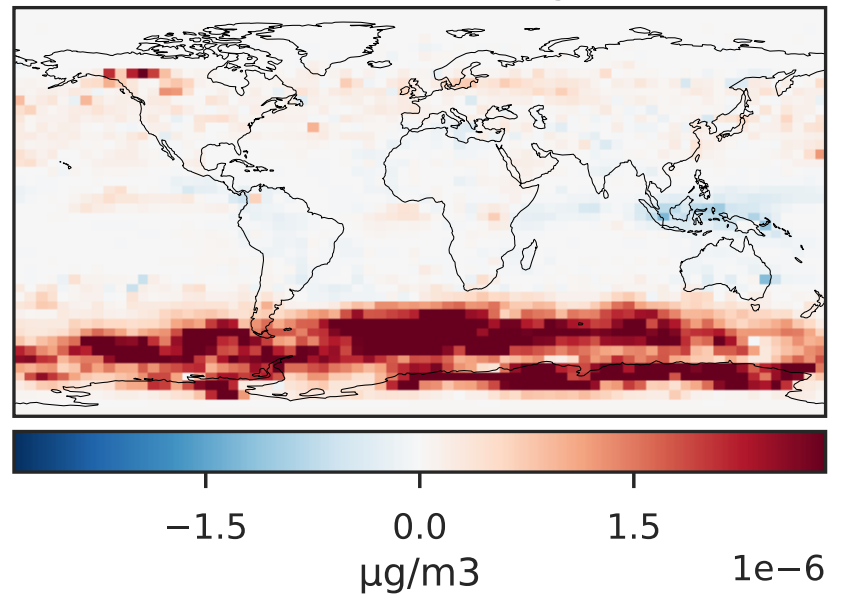
14.3.0-rc.0 (Dev)
4.0x5.0



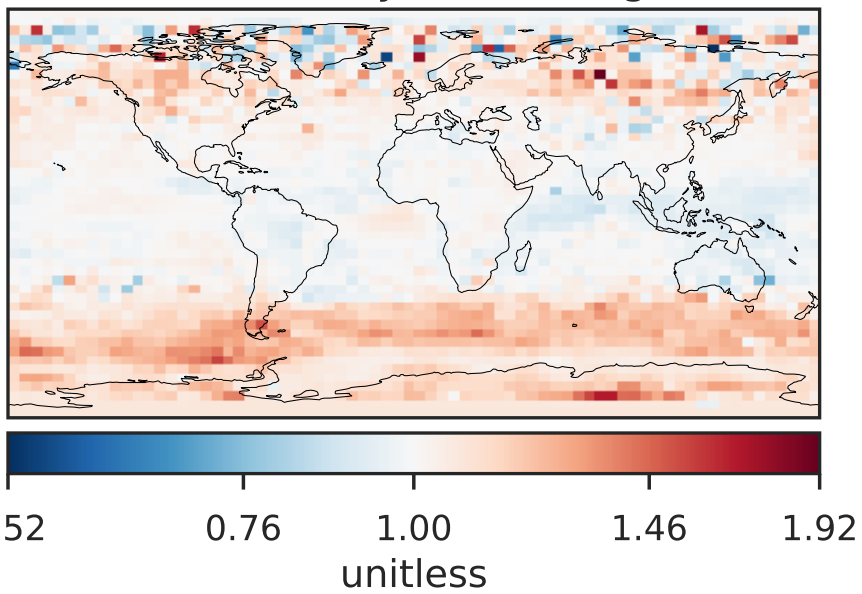
Difference
Dev - Ref, Dynamic Range



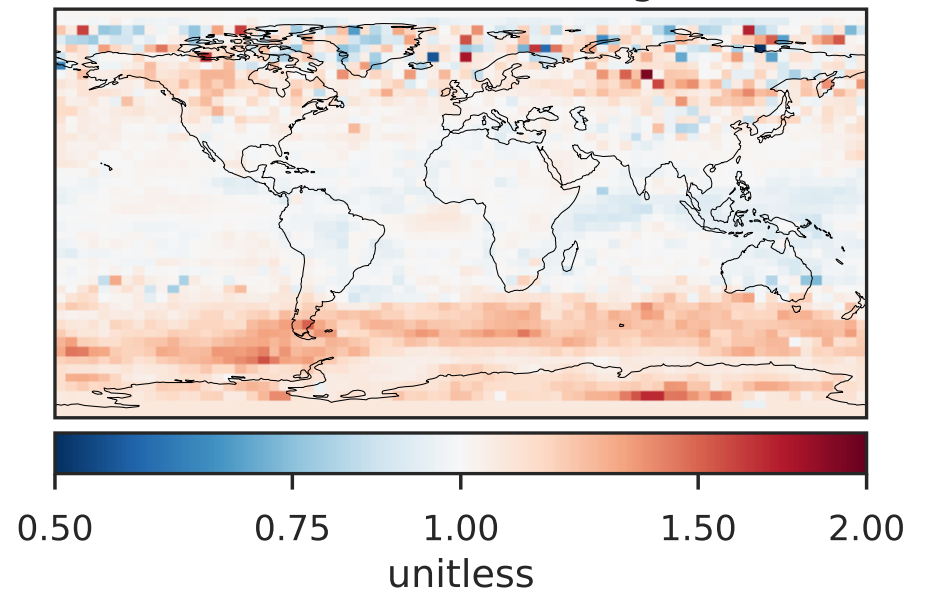
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

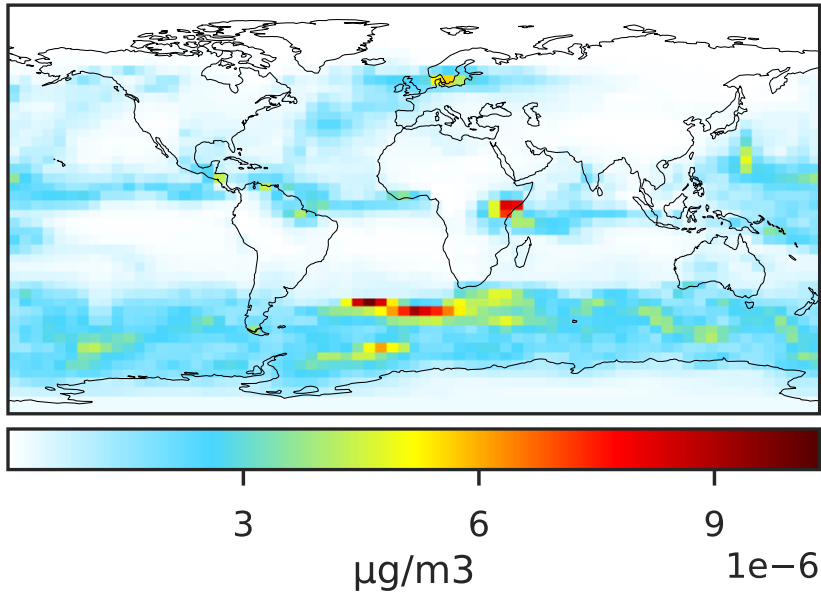


Ratio
Dev/Ref, Fixed Range

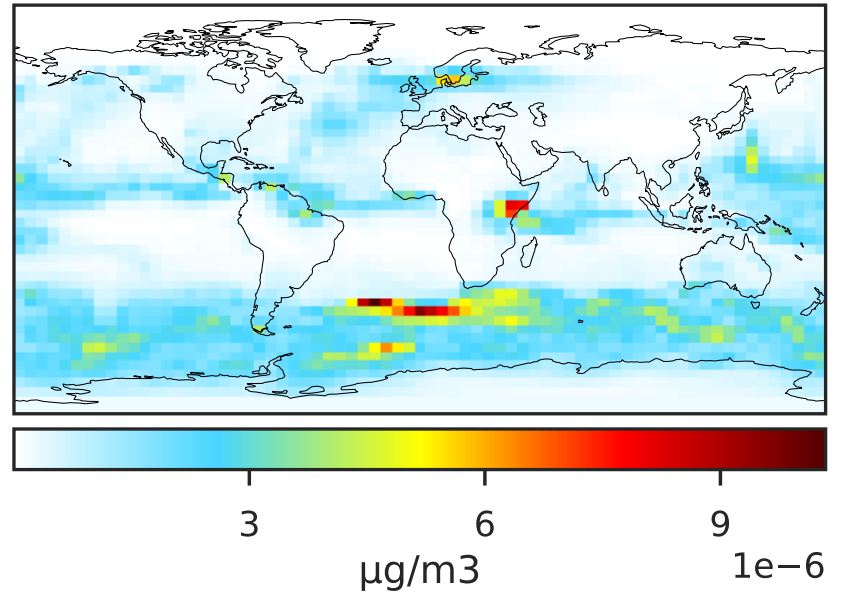


SpeciesConcVV_BrSALC (Oct2019)

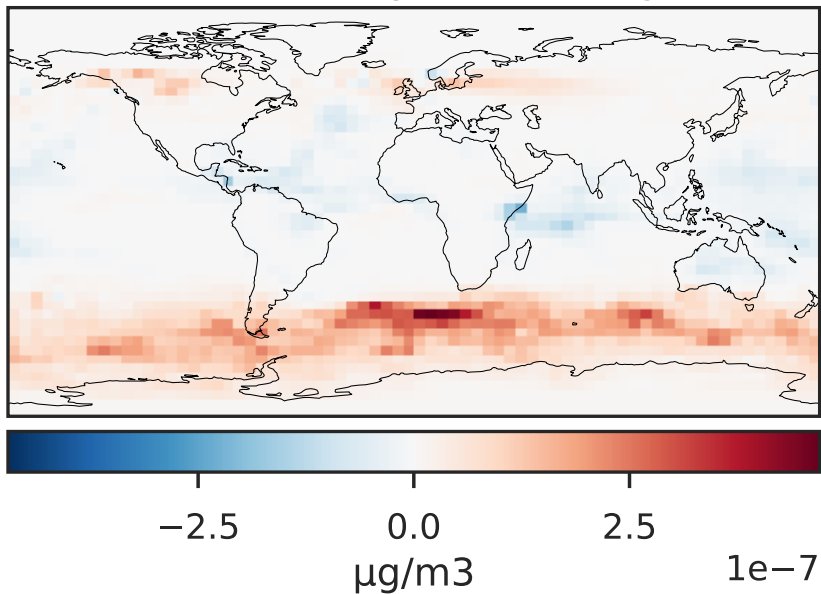
14.2.0-rc.2 (Ref)
4.0x5.0



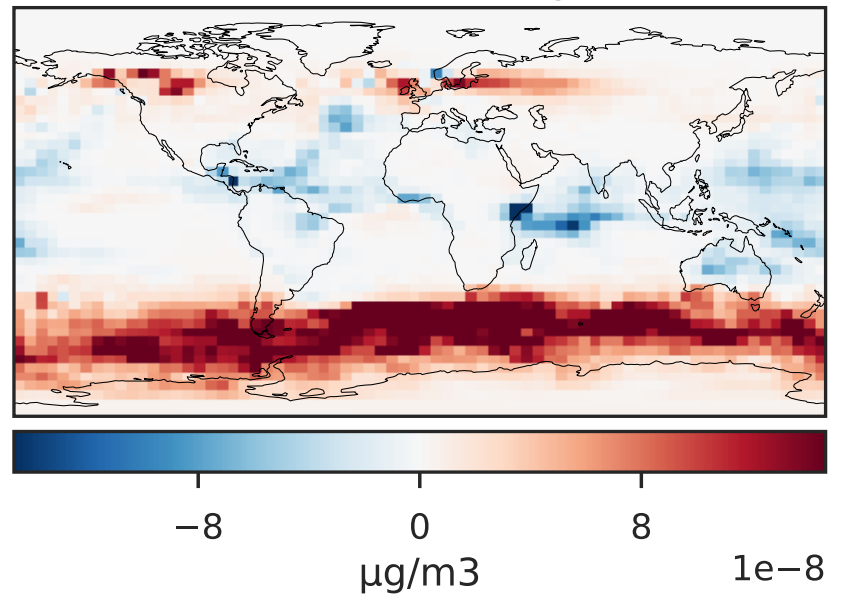
14.3.0-rc.0 (Dev)
4.0x5.0



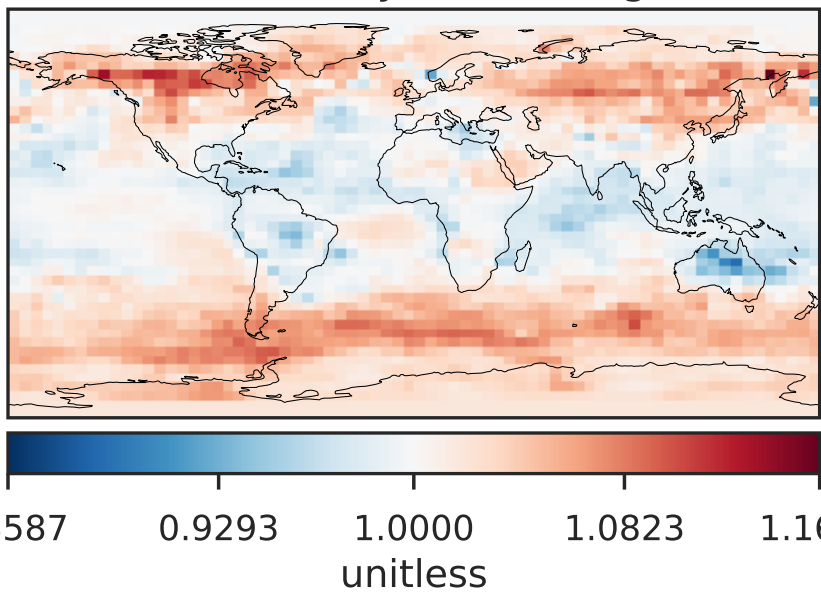
Difference
Dev - Ref, Dynamic Range



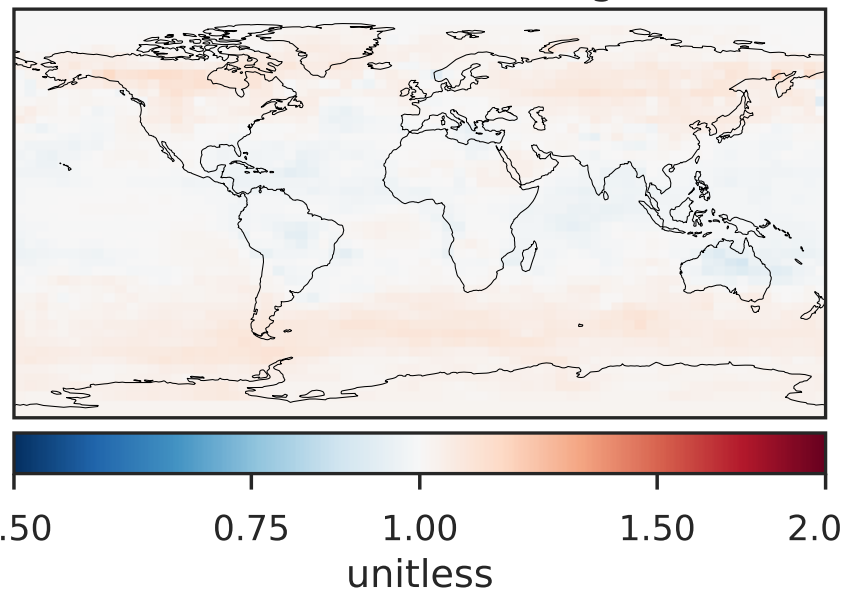
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

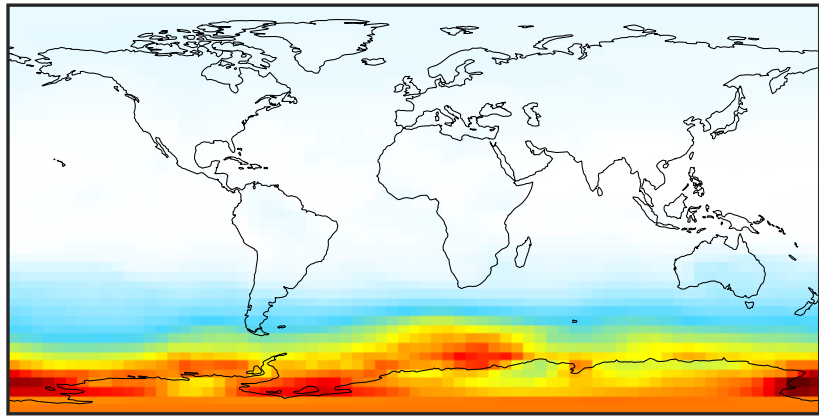


Ratio
Dev/Ref, Fixed Range



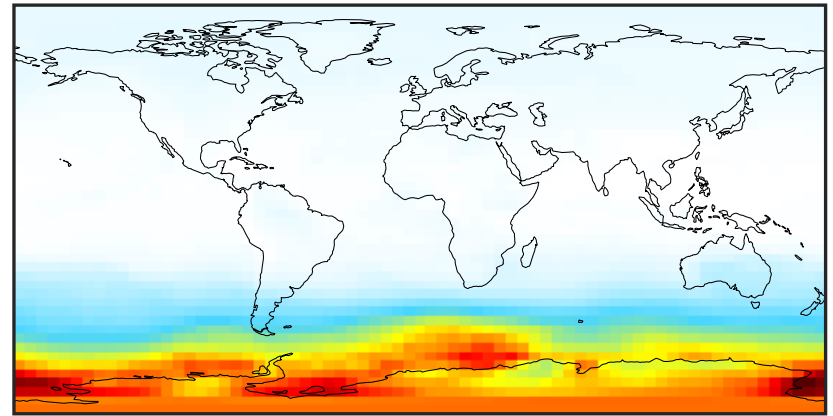
SpeciesConcVV_ISALA (Oct2019)

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



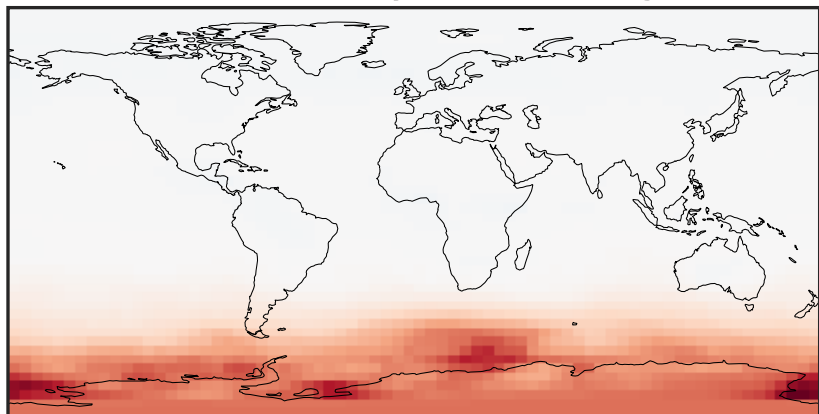
0.00015 0.00030 0.00045
 $\mu\text{g}/\text{m}^3$

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



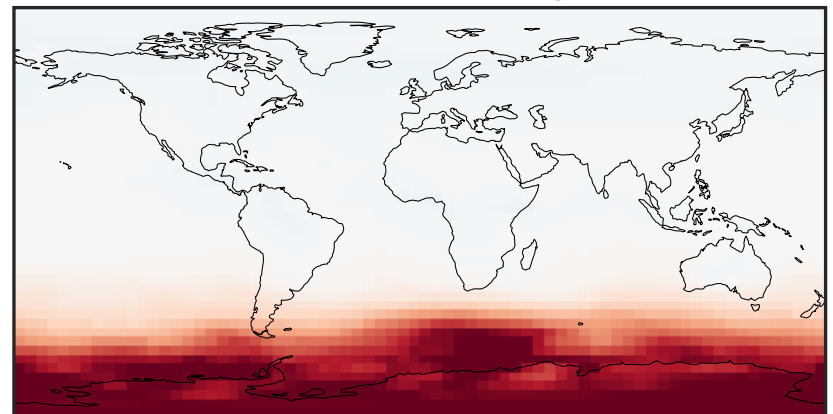
0.00015 0.00030 0.00045
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



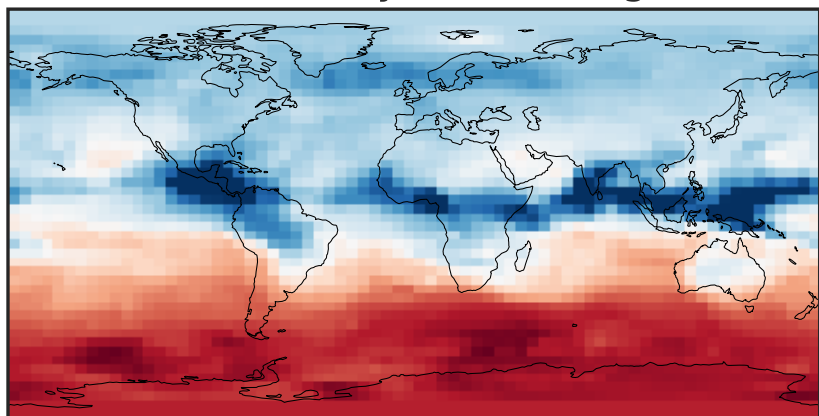
-5 0 5
 $\mu\text{g}/\text{m}^3$ $1\text{e}-6$

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



-2.5 0.0 2.5
 $\mu\text{g}/\text{m}^3$ $1\text{e}-6$

Ratio
Dev/Ref, Dynamic Range



0.98025 0.99013 1.00000 1.01007 1.02015
unitless

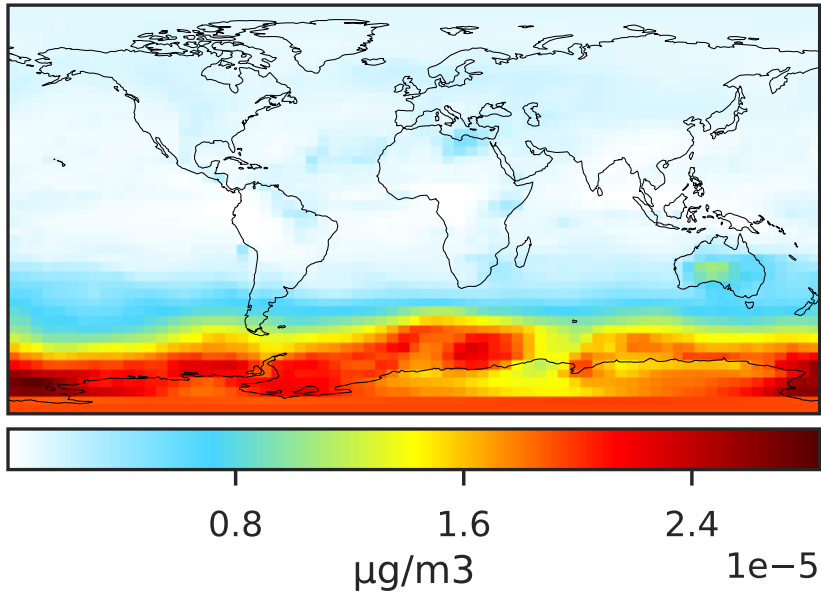
Ratio
Dev/Ref, Fixed Range



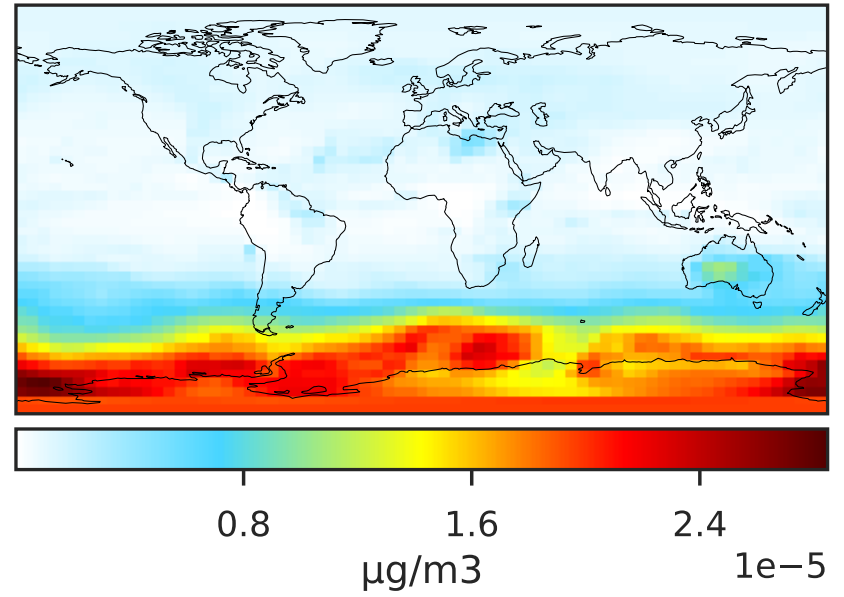
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_ISALC (Oct2019)

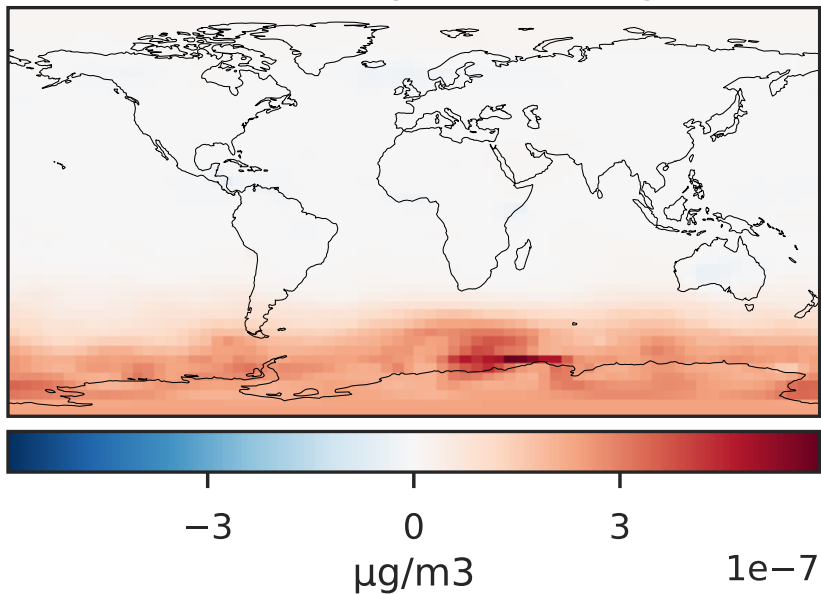
14.2.0-rc.2 (Ref)
4.0x5.0



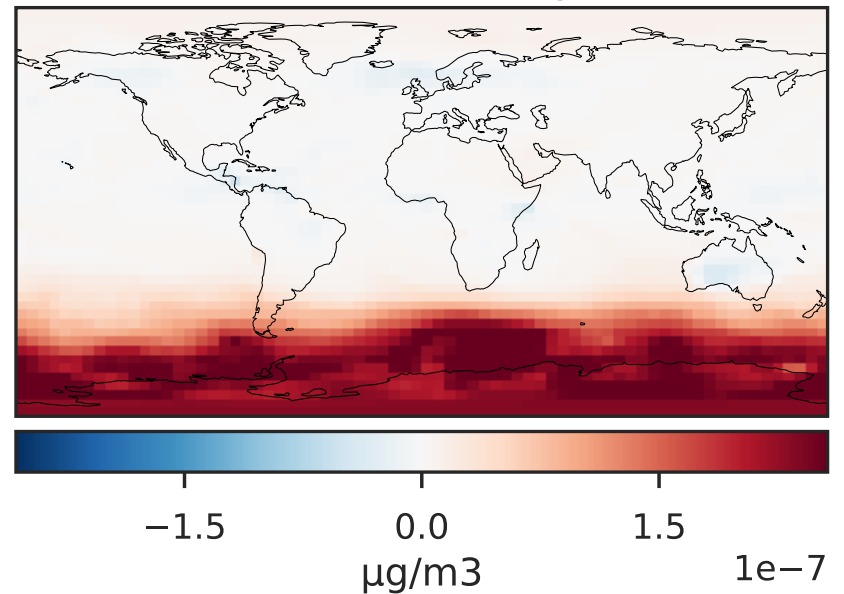
14.3.0-rc.0 (Dev)
4.0x5.0



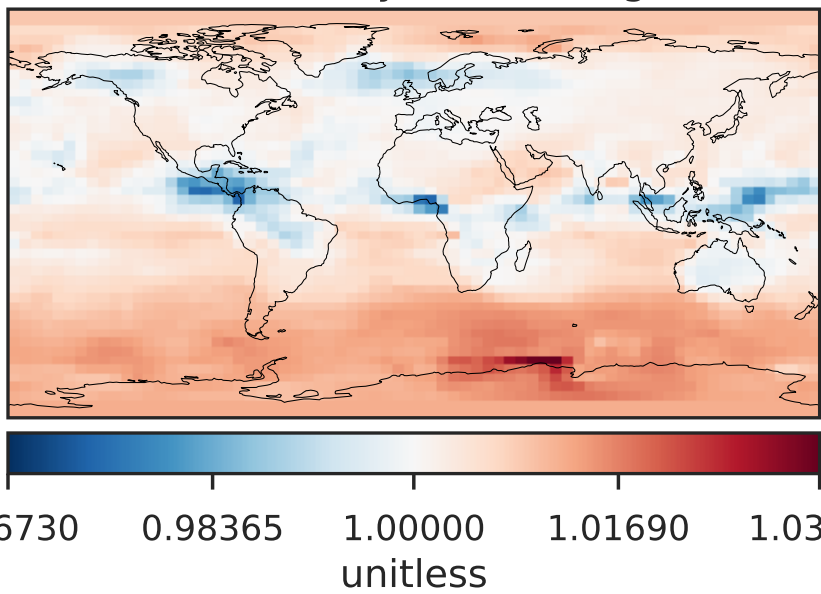
Difference
Dev - Ref, Dynamic Range



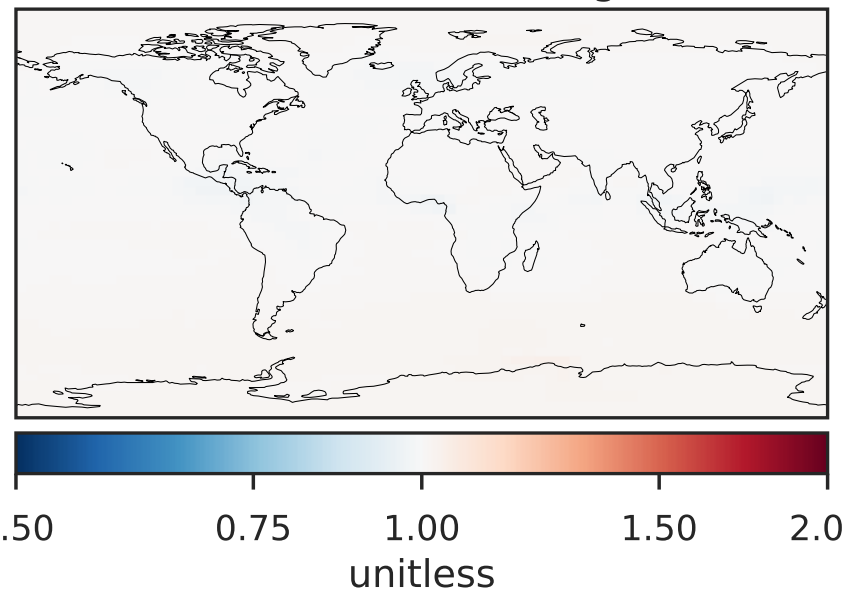
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

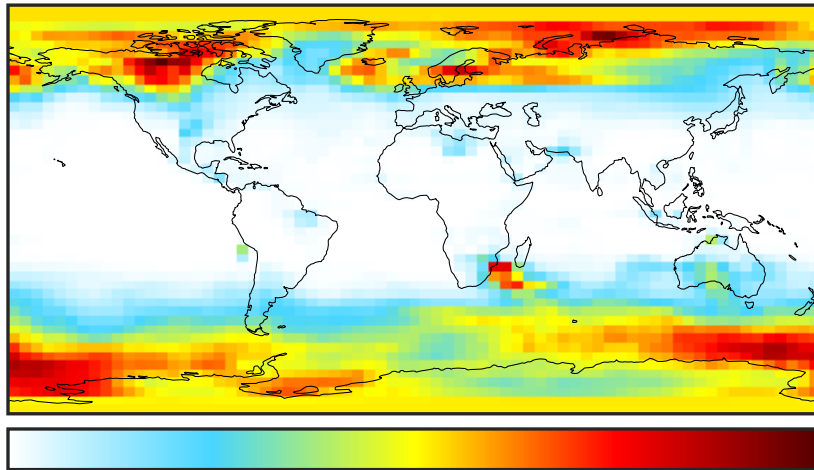


Ratio
Dev/Ref, Fixed Range



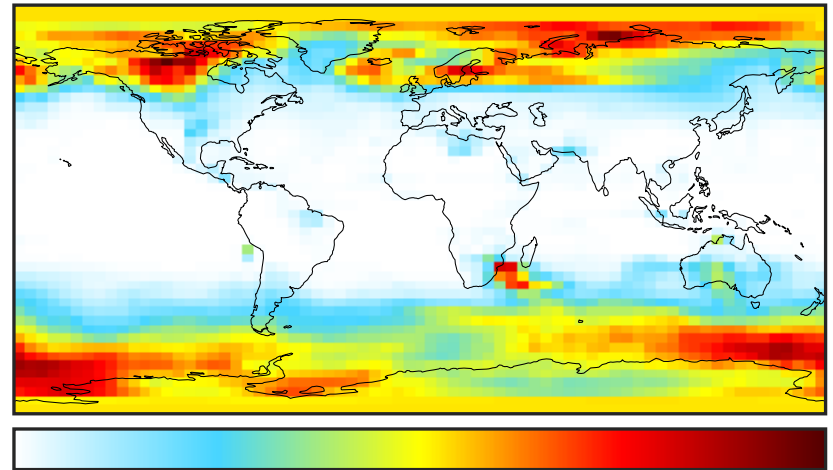
SpeciesConcVV_NITs (Oct2019)

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



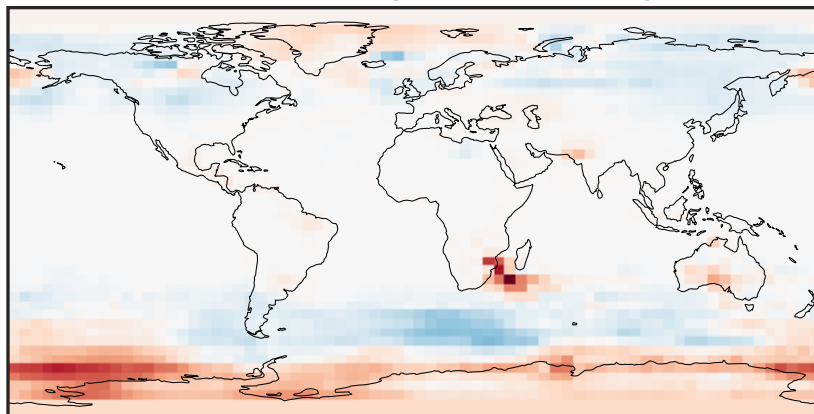
0.00015 0.00030
 $\mu\text{g}/\text{m}^3$

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



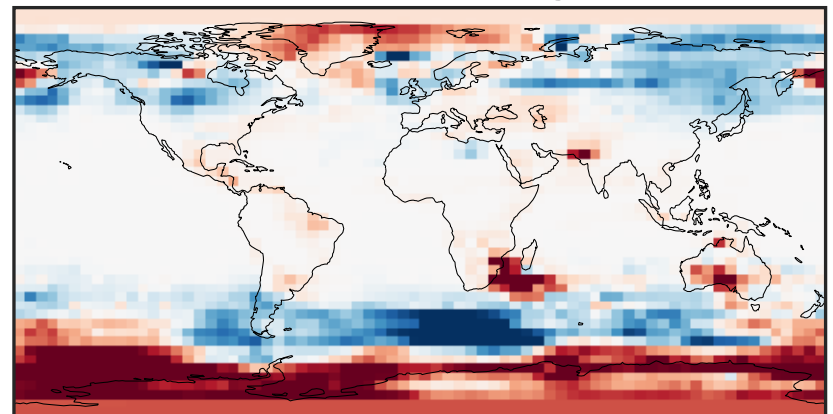
0.00015 0.00030
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



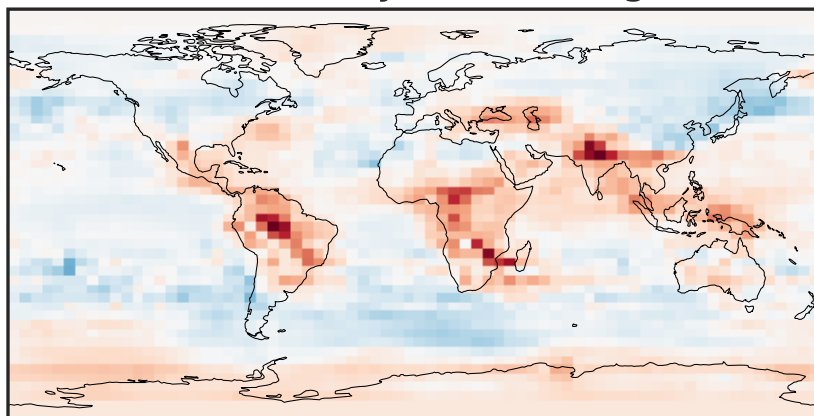
-8 0 8
 $\mu\text{g}/\text{m}^3$ $1\text{e}-6$

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



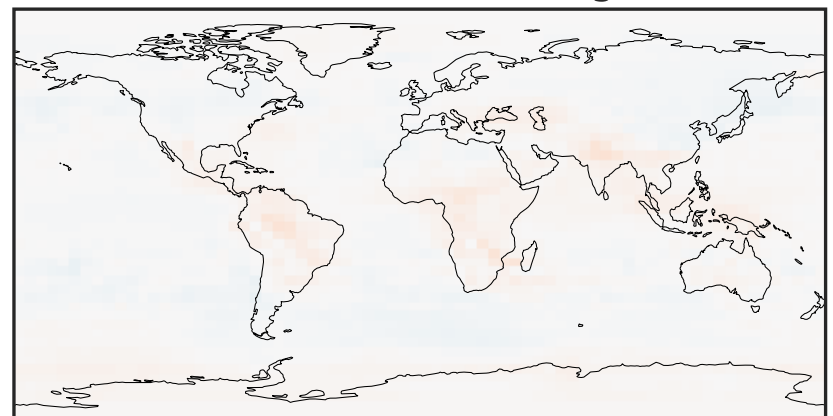
-2 0 2
 $\mu\text{g}/\text{m}^3$ $1\text{e}-6$

Ratio
Dev/Ref, Dynamic Range



0.9068 0.9534 1.0000 1.0514 1.1028
unitless

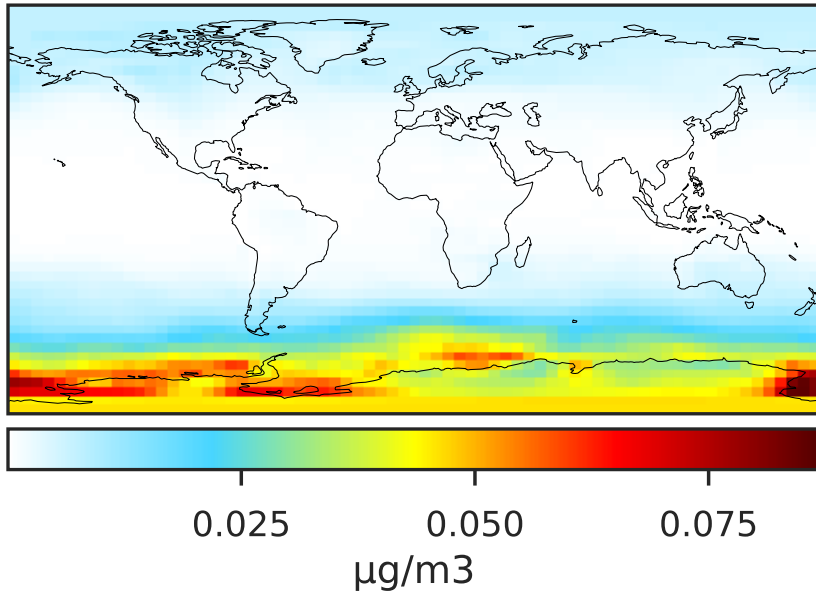
Ratio
Dev/Ref, Fixed Range



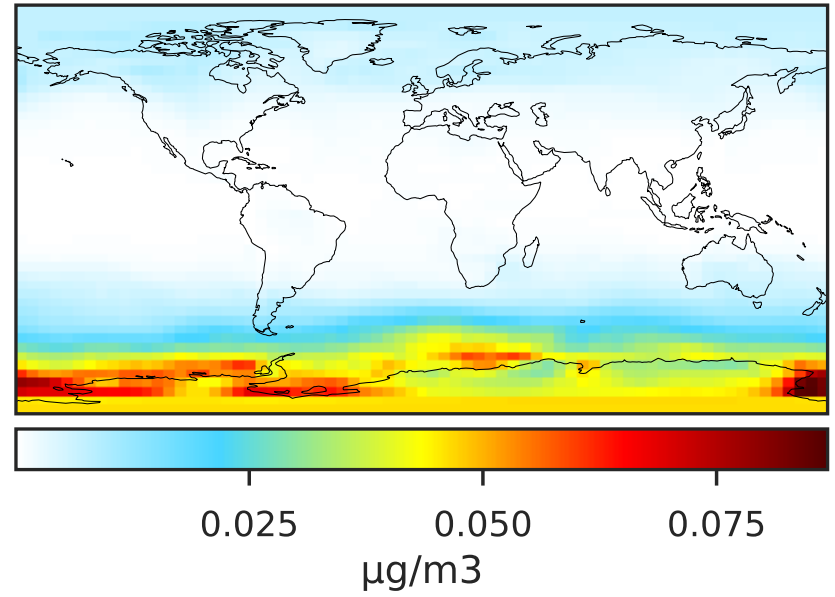
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_SALA (Oct2019)

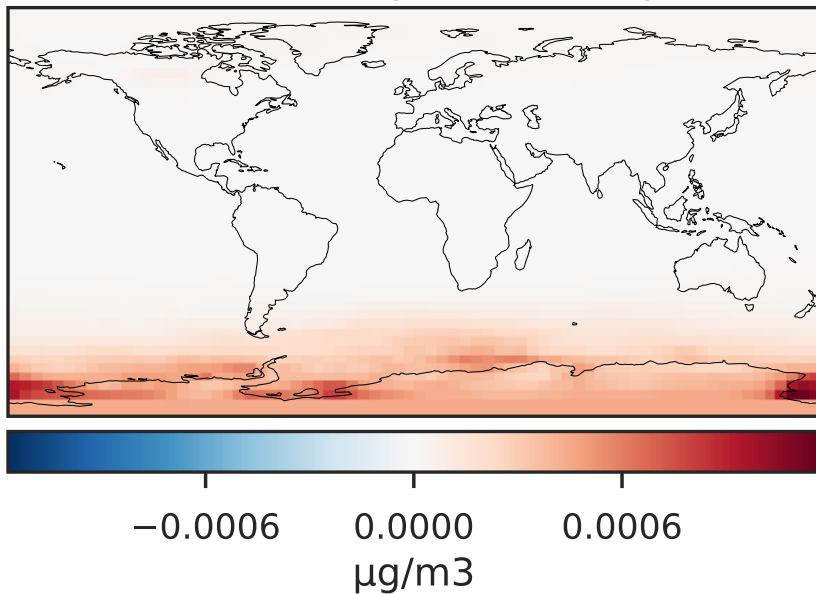
14.2.0-rc.2 (Ref)
4.0x5.0



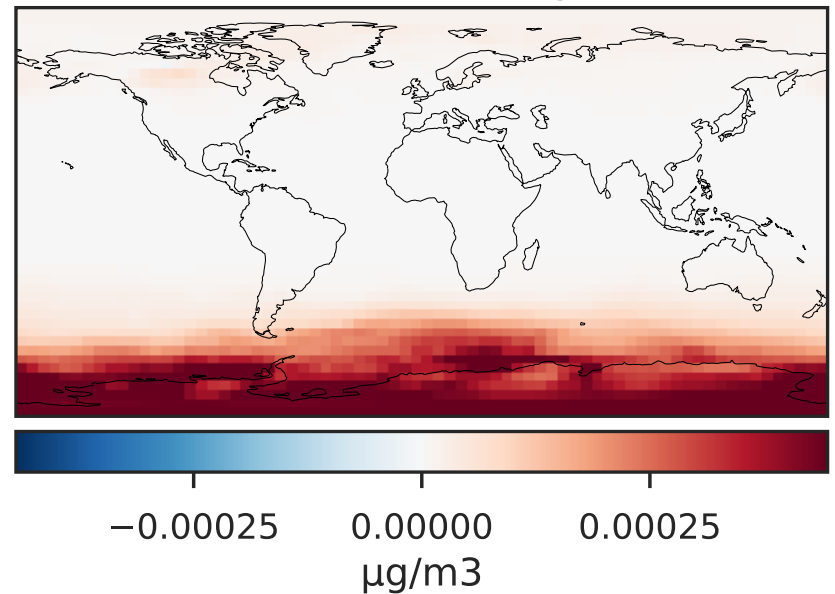
14.3.0-rc.0 (Dev)
4.0x5.0



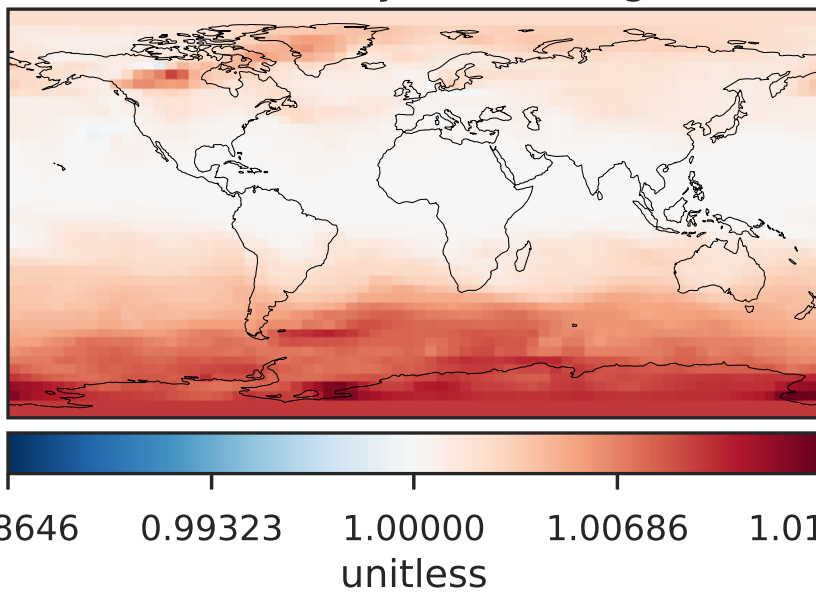
Difference
Dev - Ref, Dynamic Range



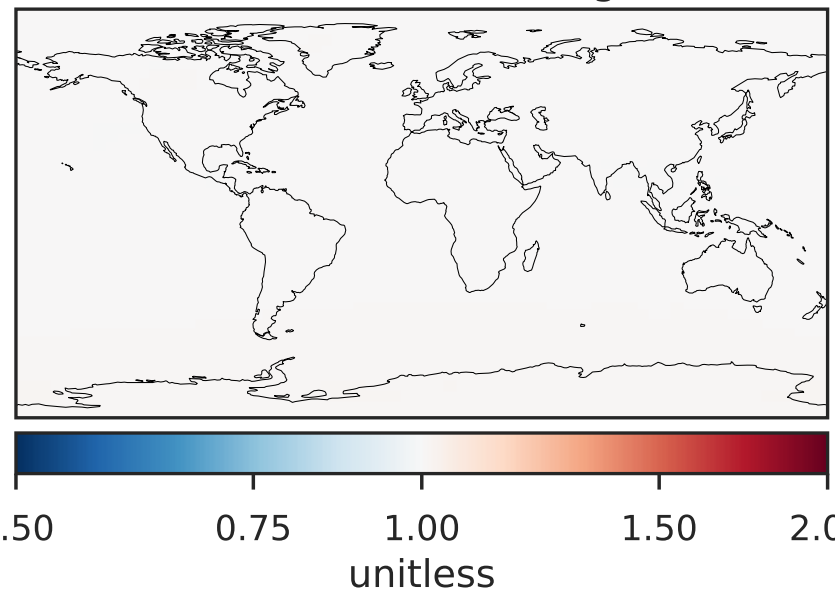
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

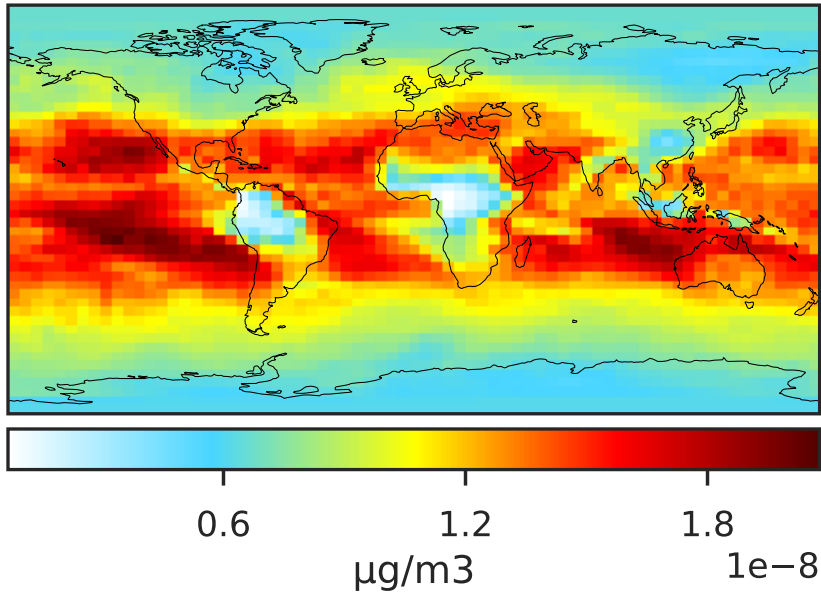


Ratio
Dev/Ref, Fixed Range

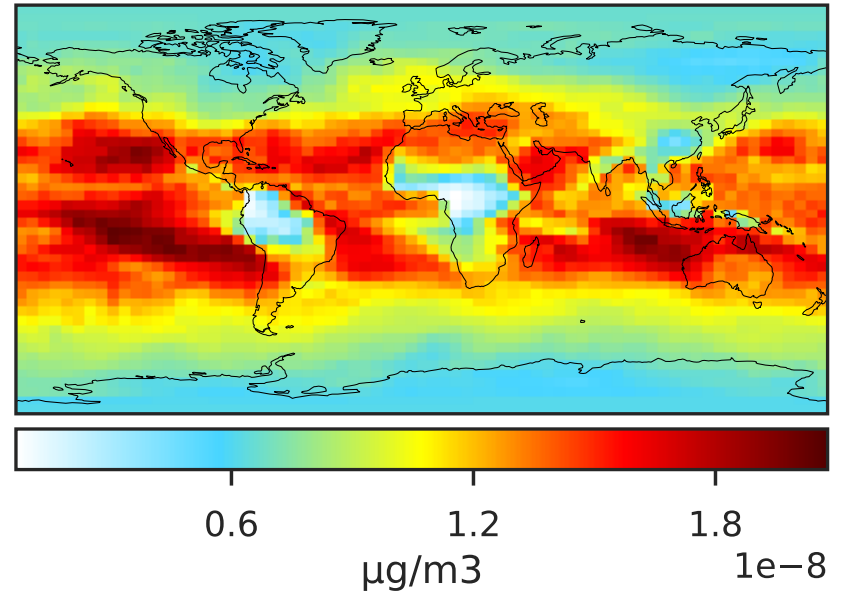


SpeciesConcVV_SALAAL (Oct2019)

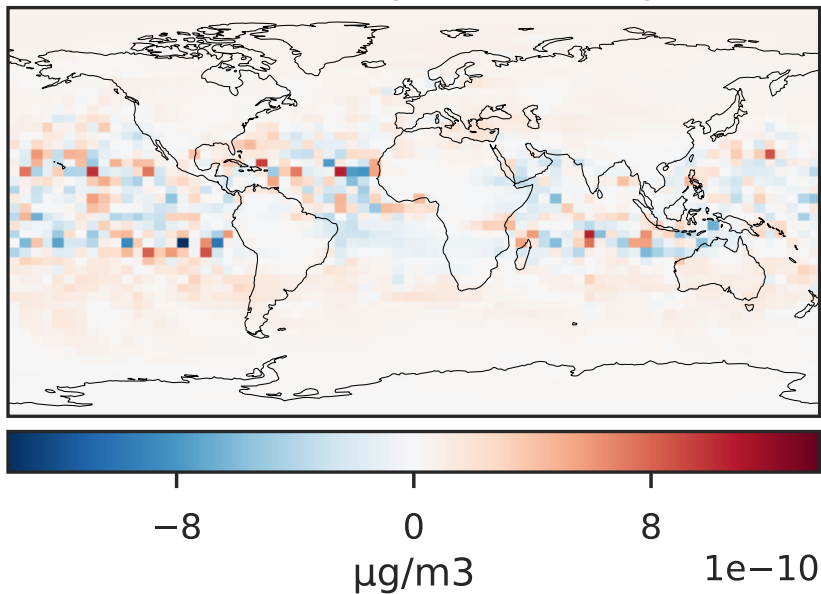
14.2.0-rc.2 (Ref)
4.0x5.0



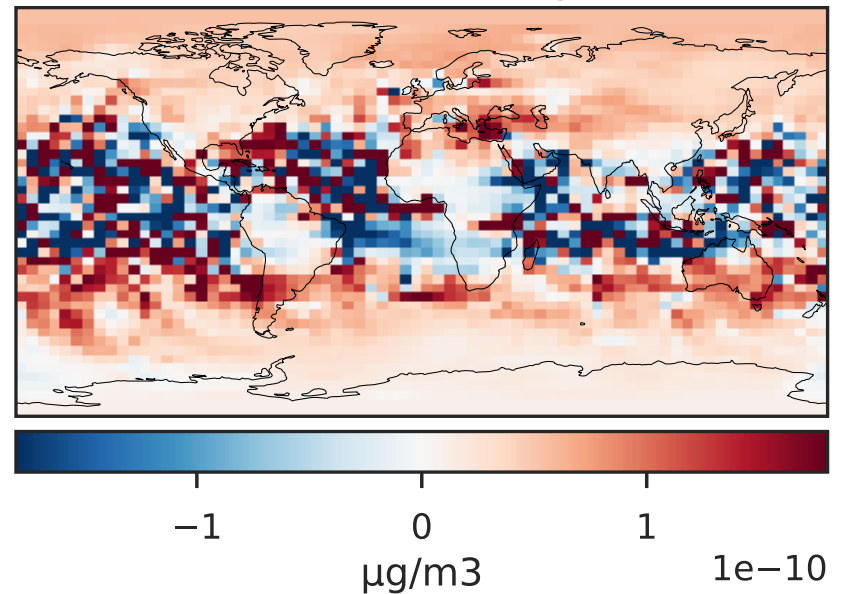
14.3.0-rc.0 (Dev)
4.0x5.0



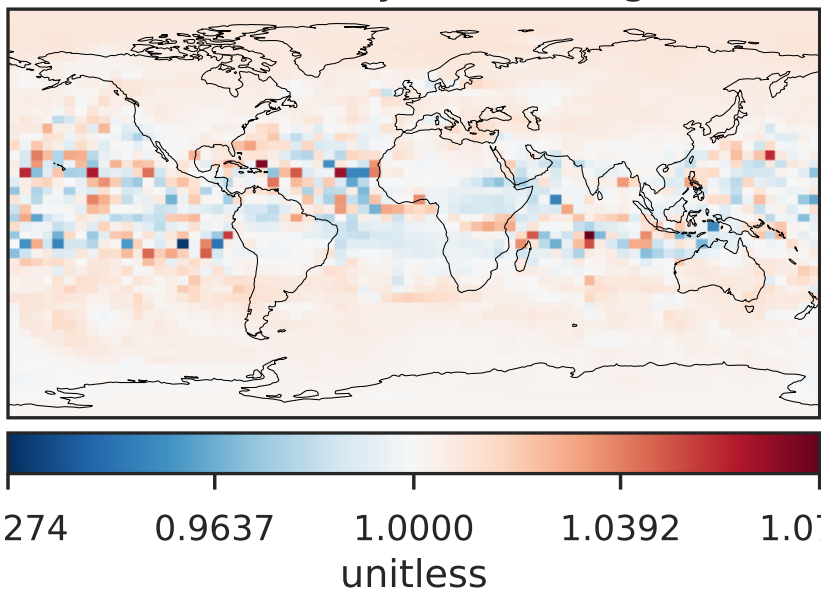
Difference
Dev - Ref, Dynamic Range



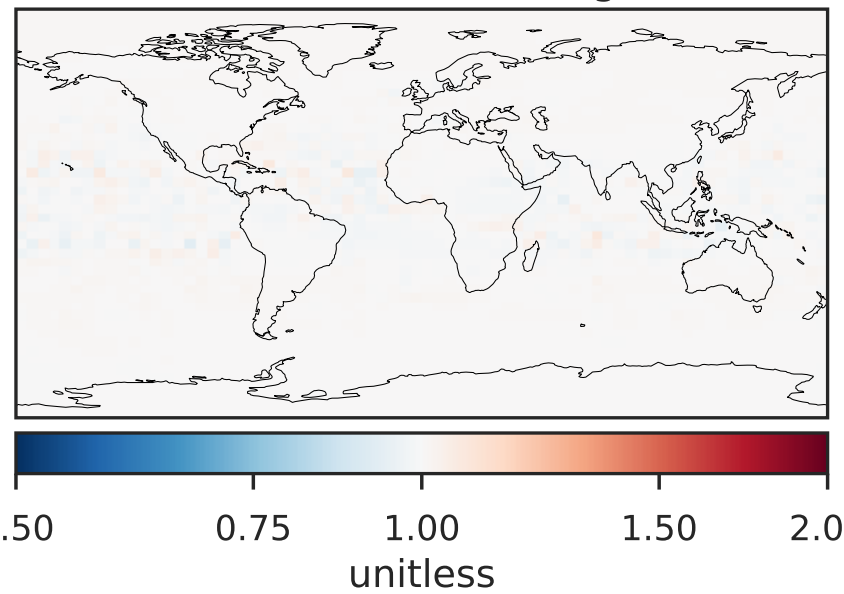
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

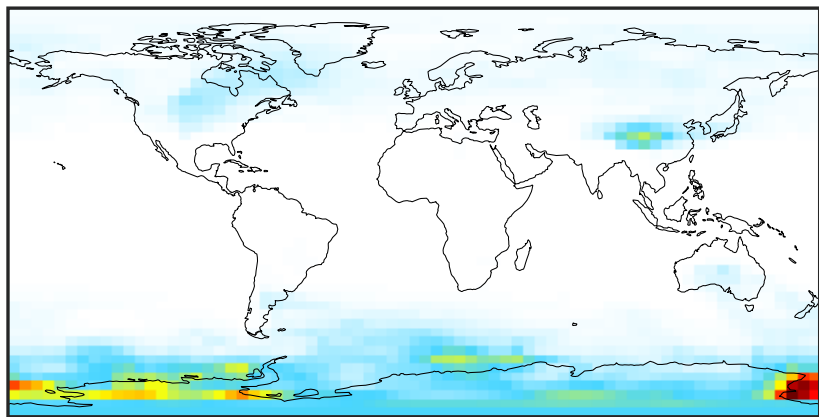


Ratio
Dev/Ref, Fixed Range



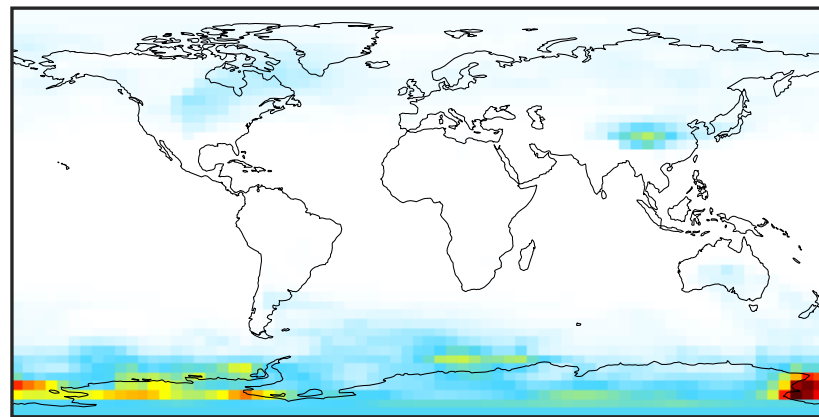
SpeciesConcVV_SALACL (Oct2019)

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



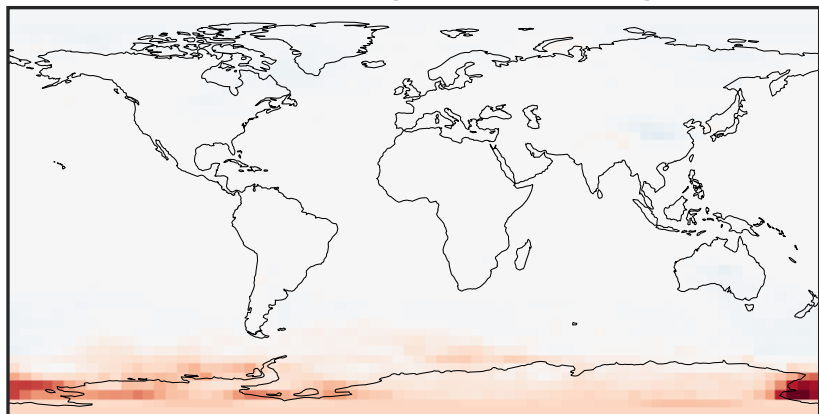
0.000 0.005 0.010 0.015
 $\mu\text{g}/\text{m}^3$

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



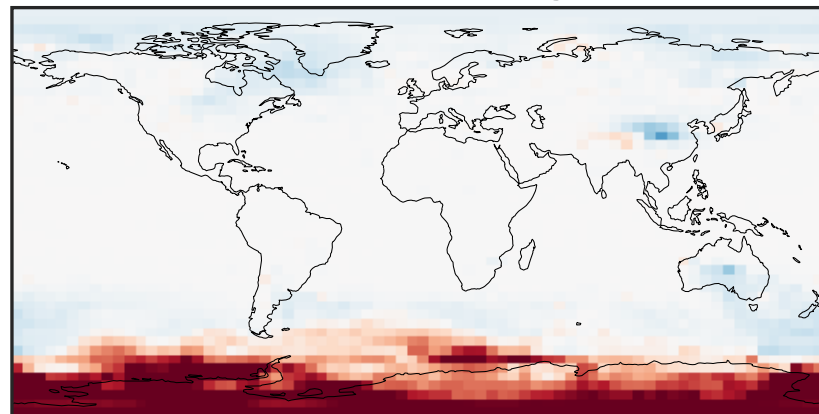
0.000 0.005 0.010 0.015
 $\mu\text{g}/\text{m}^3$

Difference
Dev - Ref, Dynamic Range



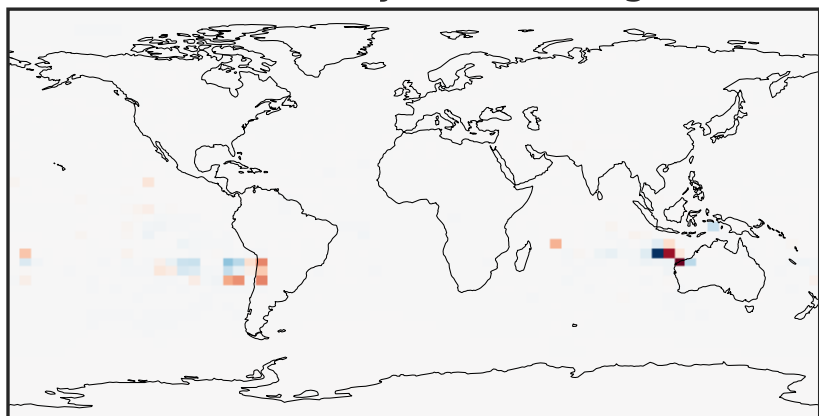
-0.0004 0.0000 0.0004
 $\mu\text{g}/\text{m}^3$

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



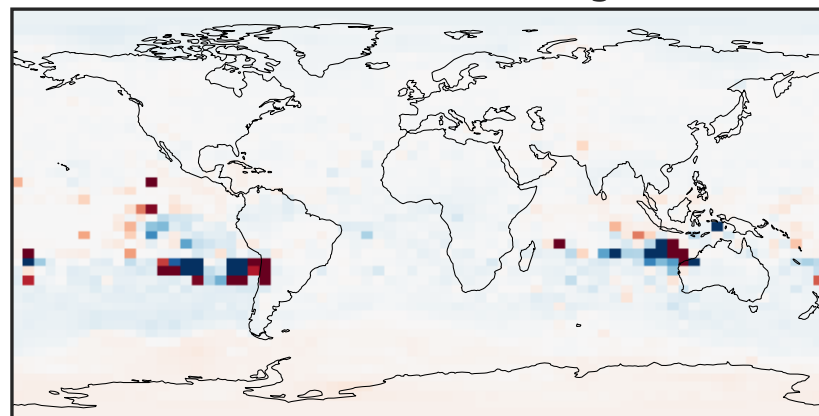
-8 0 8
 $\mu\text{g}/\text{m}^3$ $1\text{e}-5$

Ratio
Dev/Ref, Dynamic Range



unitless

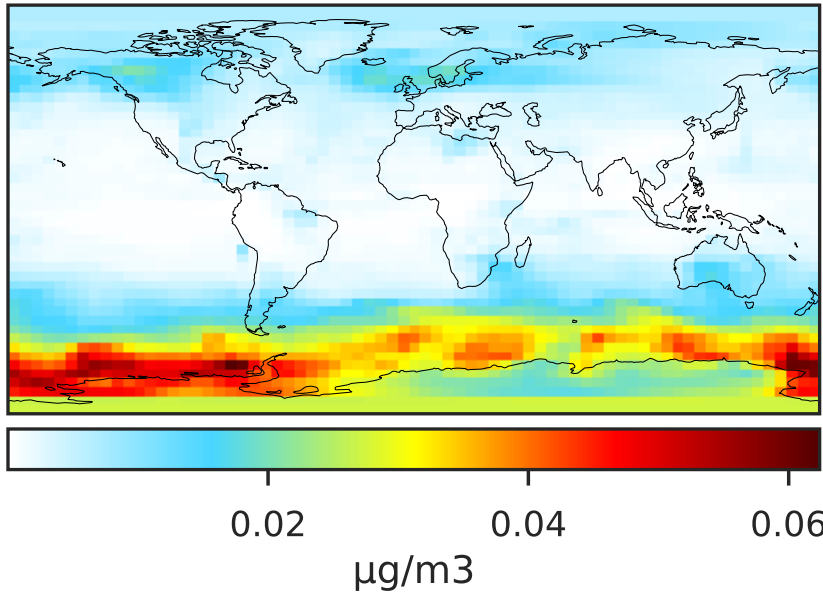
Ratio
Dev/Ref, Fixed Range



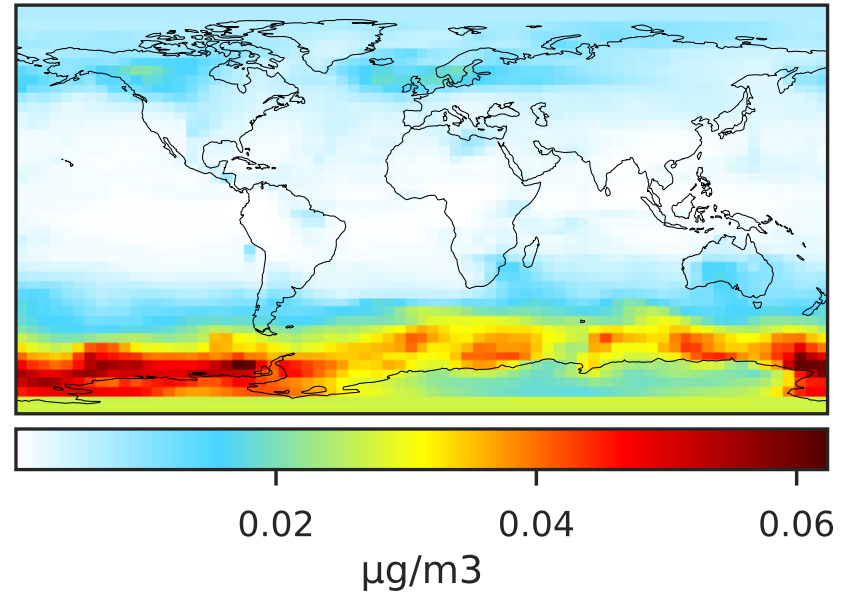
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_SALC (Oct2019)

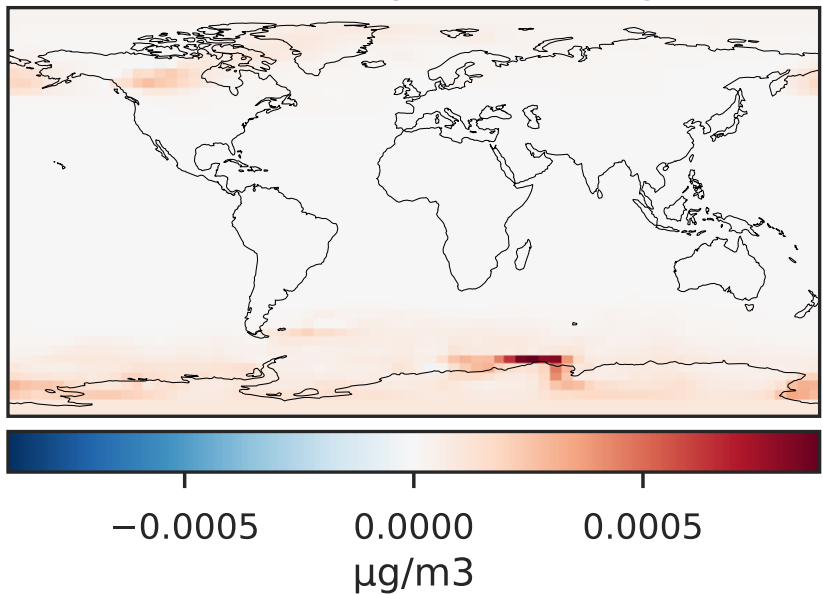
14.2.0-rc.2 (Ref)
4.0x5.0



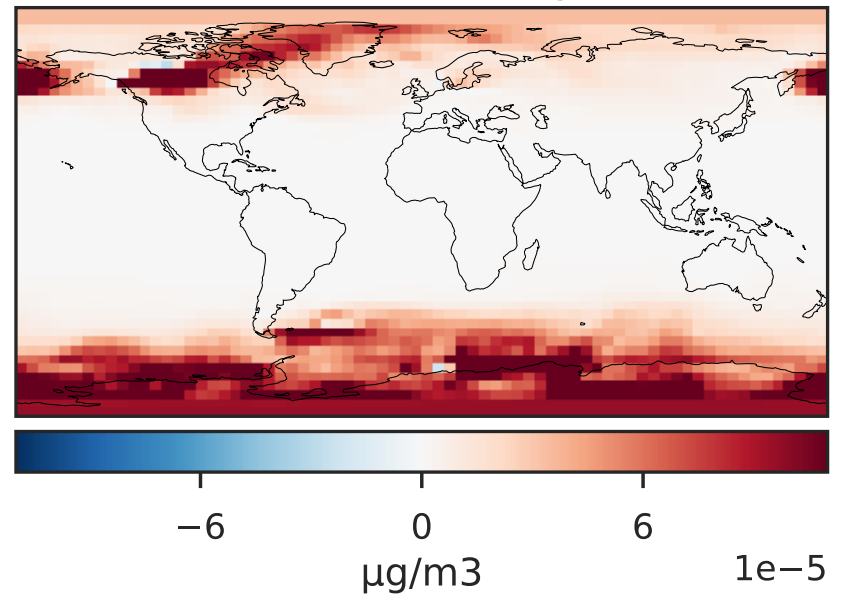
14.3.0-rc.0 (Dev)
4.0x5.0



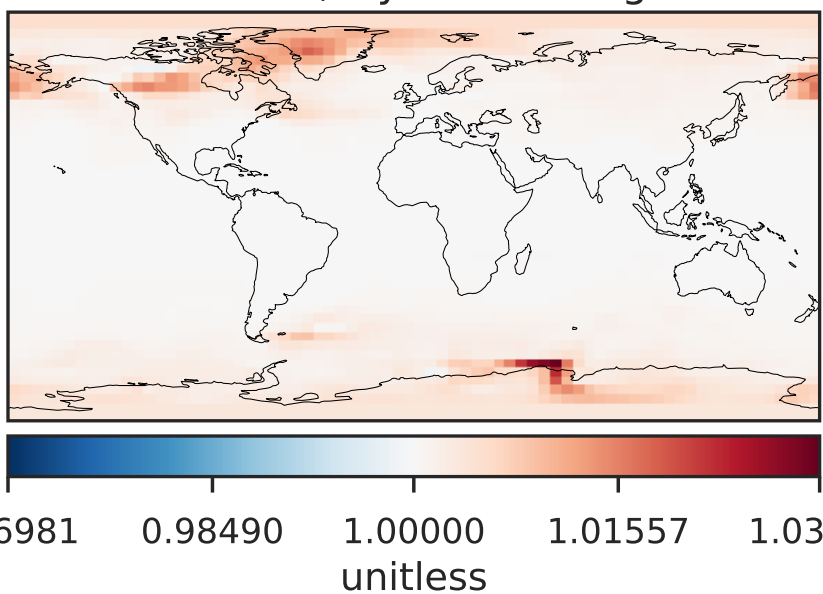
Difference
Dev - Ref, Dynamic Range



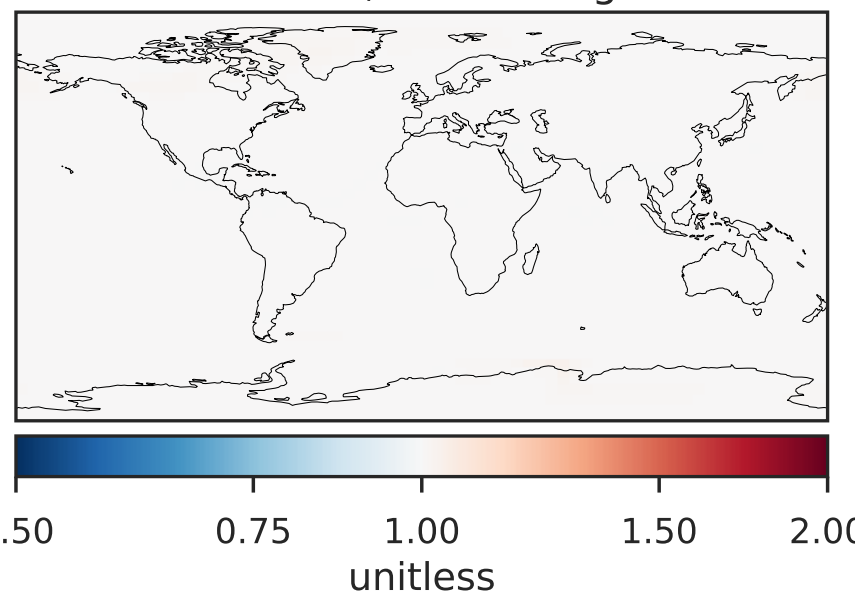
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

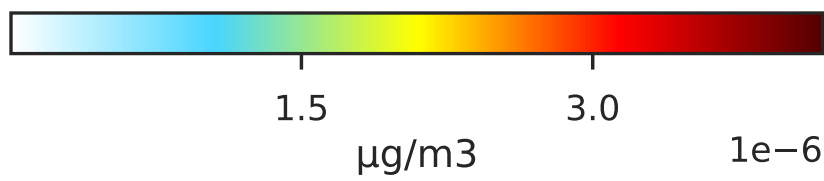
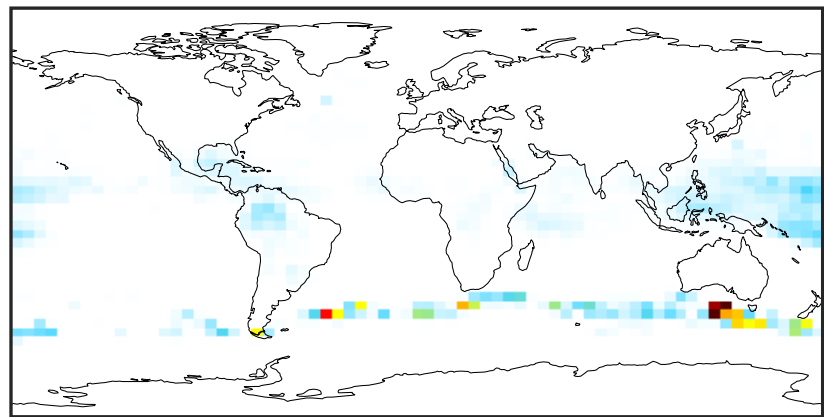


Ratio
Dev/Ref, Fixed Range

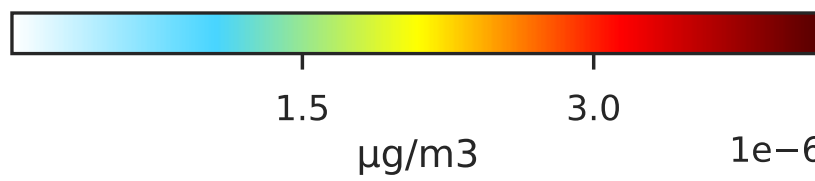
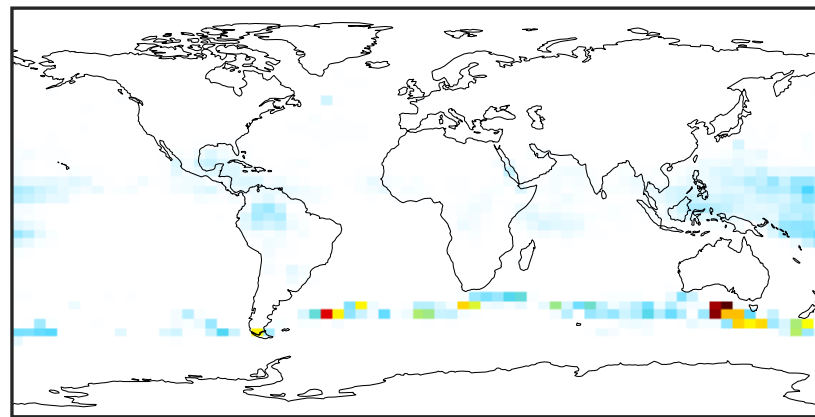


SpeciesConcVV_SALCAL (Oct2019)

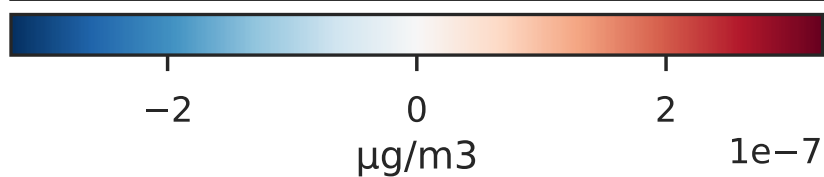
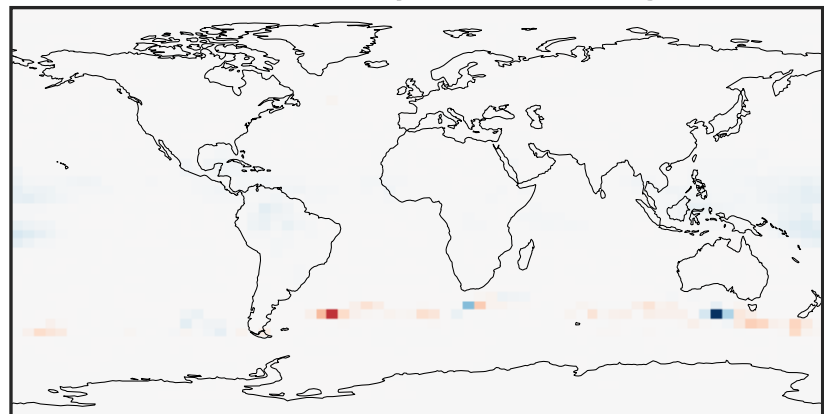
14.2.0-rc.2 (Ref)
4.0x5.0



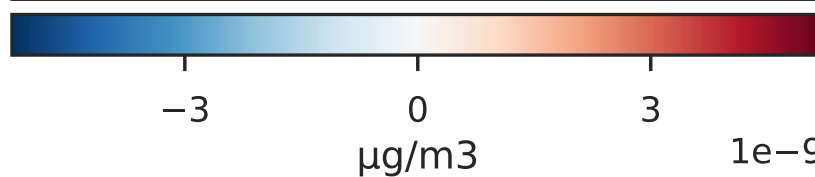
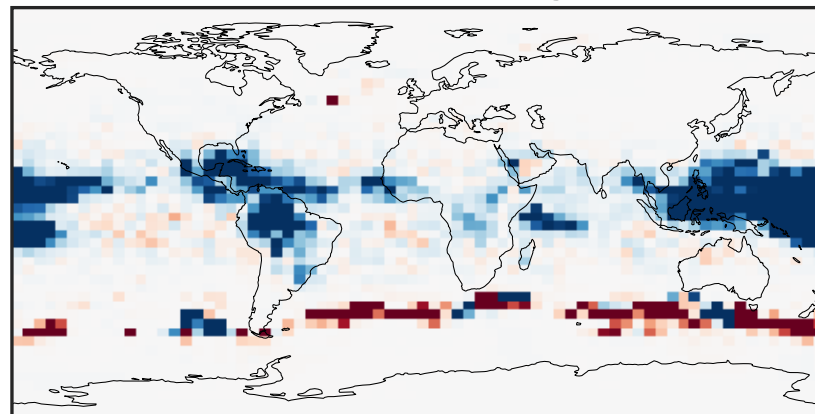
14.3.0-rc.0 (Dev)
4.0x5.0



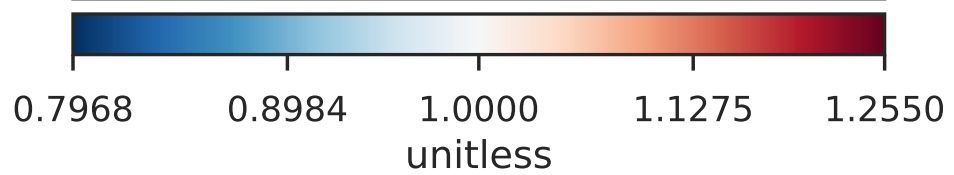
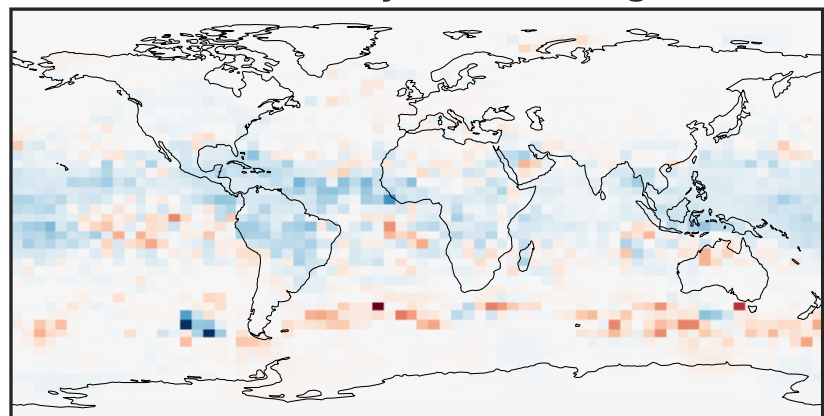
Difference
Dev - Ref, Dynamic Range



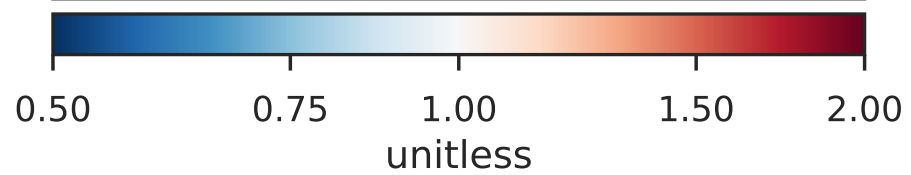
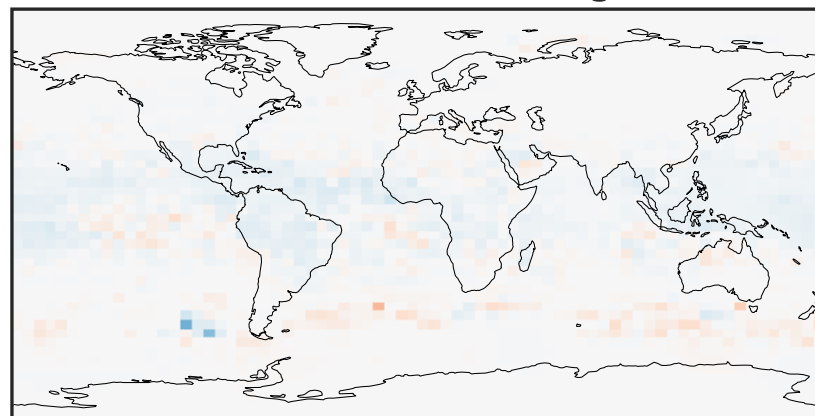
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

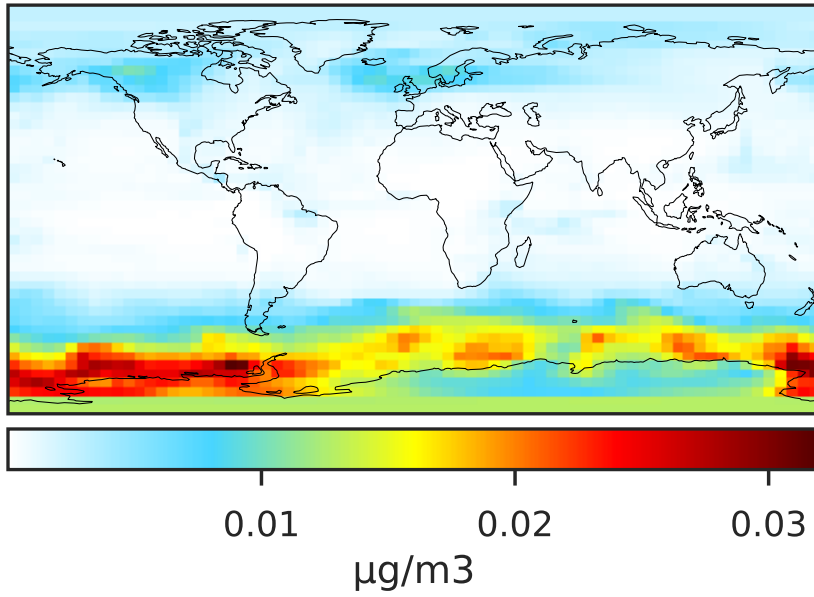


Ratio
Dev/Ref, Fixed Range

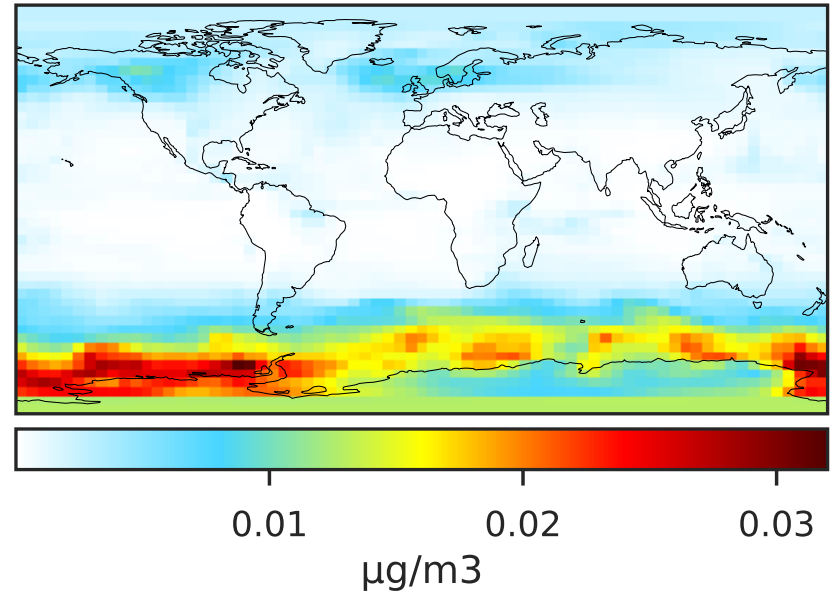


SpeciesConcVV_SALCCL (Oct2019)

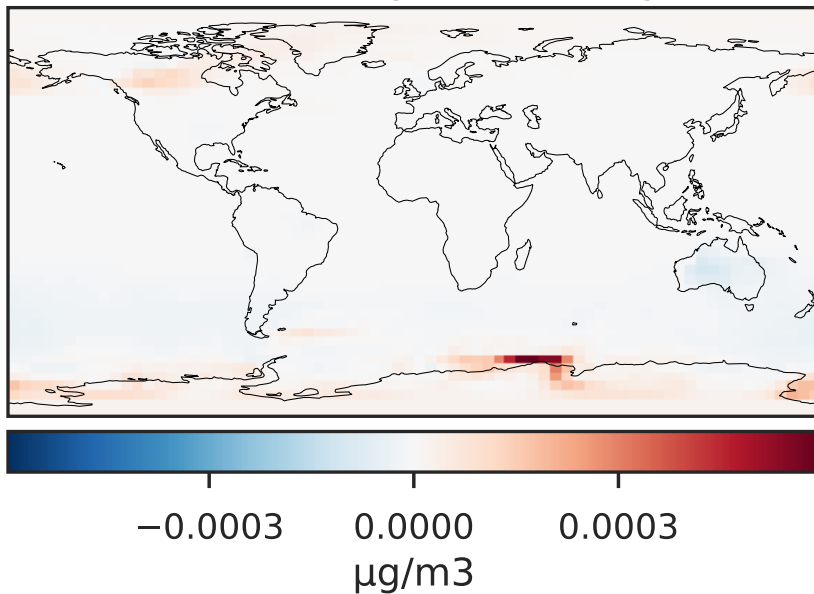
14.2.0-rc.2 (Ref)
4.0x5.0



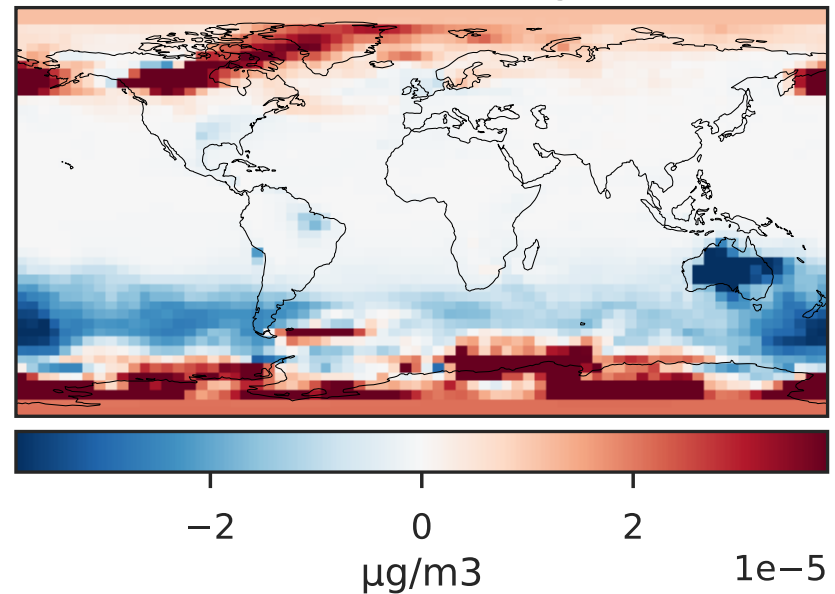
14.3.0-rc.0 (Dev)
4.0x5.0



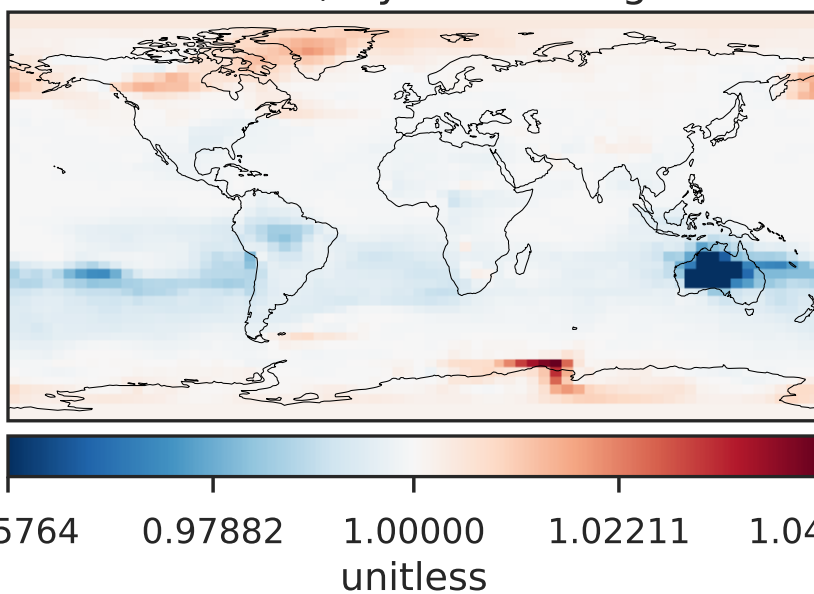
Difference
Dev - Ref, Dynamic Range



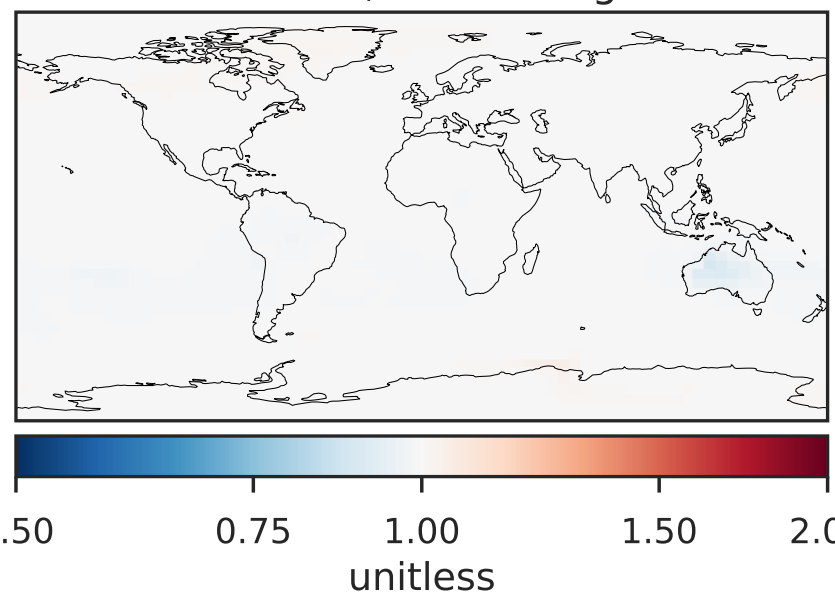
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range



Ratio
Dev/Ref, Fixed Range

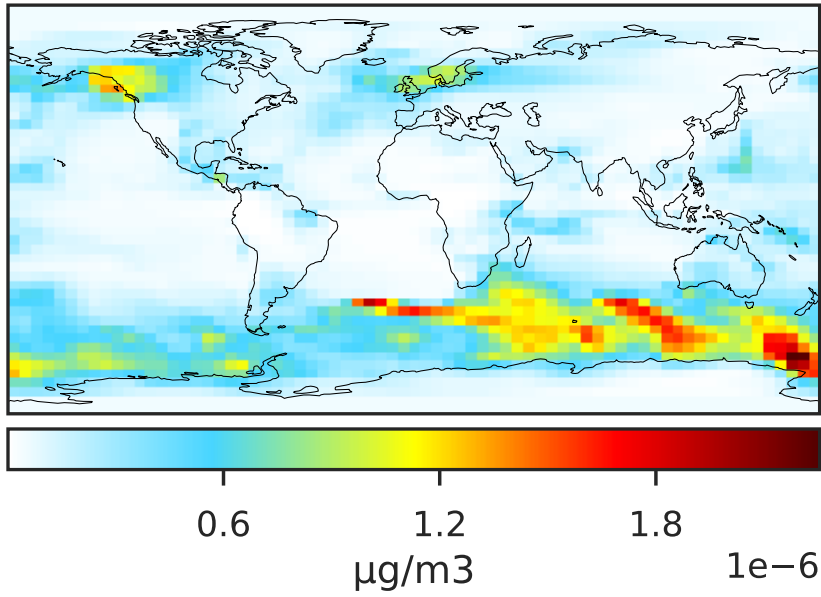


0.95764 0.97882 1.00000 1.02211 1.04423
unitless

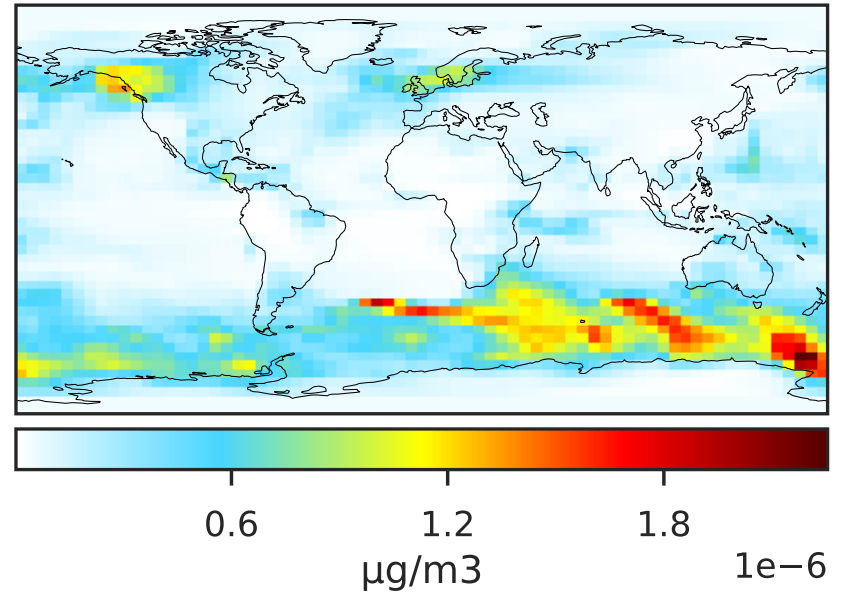
0.50 0.75 1.00 1.50 2.00
unitless

SpeciesConcVV_SO4s (Oct2019)

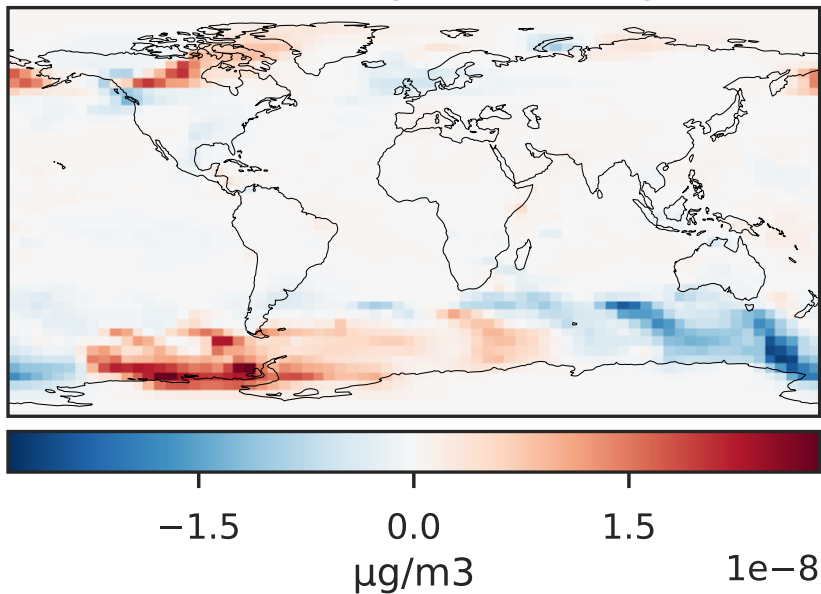
14.2.0-rc.2 (Ref)
4.0x5.0



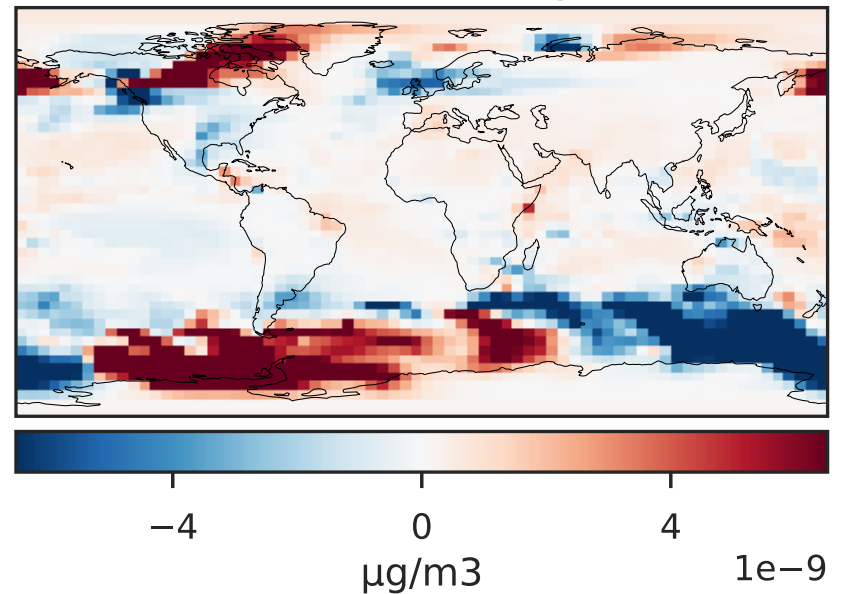
14.3.0-rc.0 (Dev)
4.0x5.0



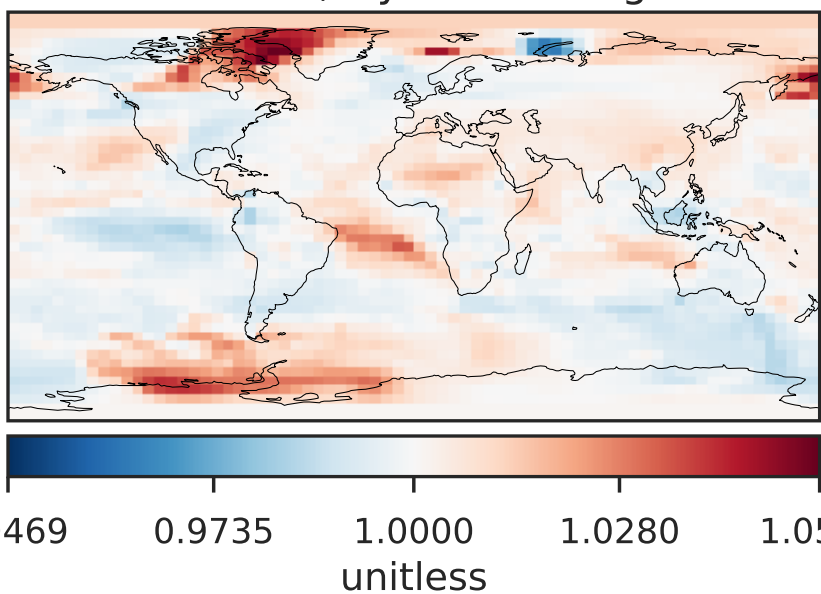
Difference
Dev - Ref, Dynamic Range



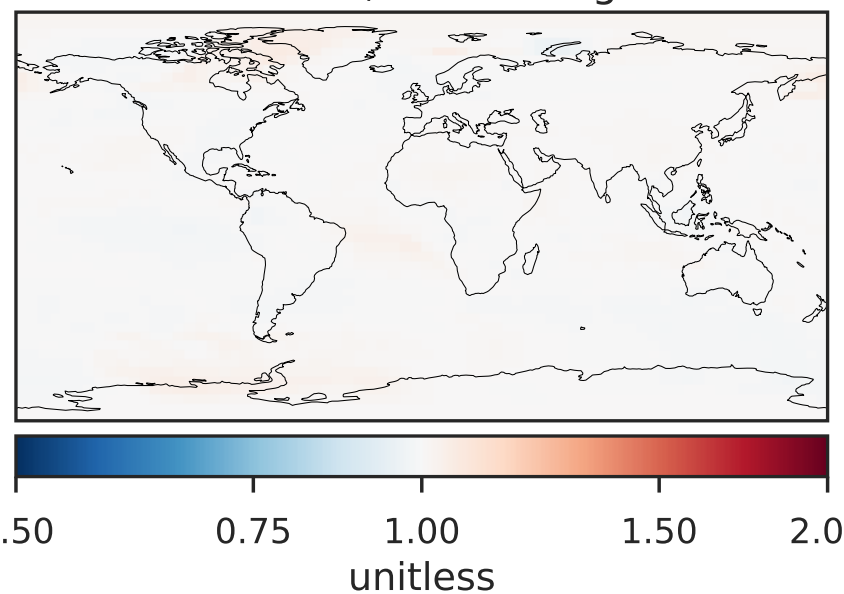
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

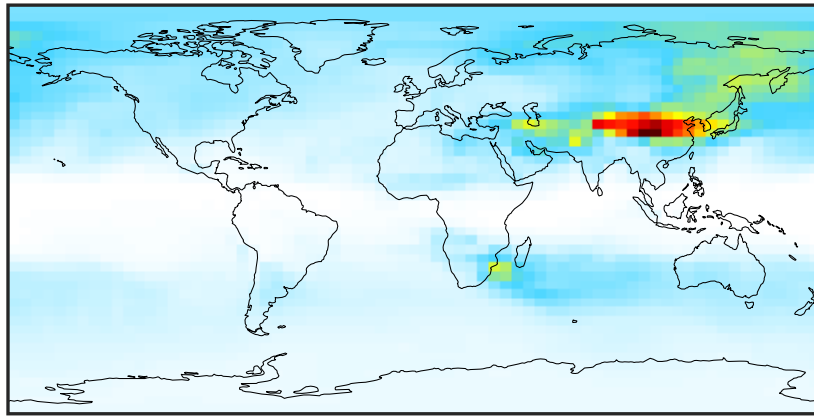


Ratio
Dev/Ref, Fixed Range



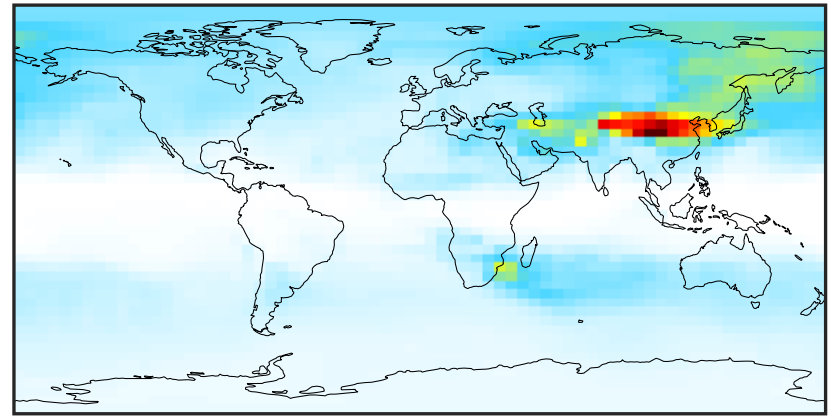
SpeciesConcVV_pFe (Oct2019)

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



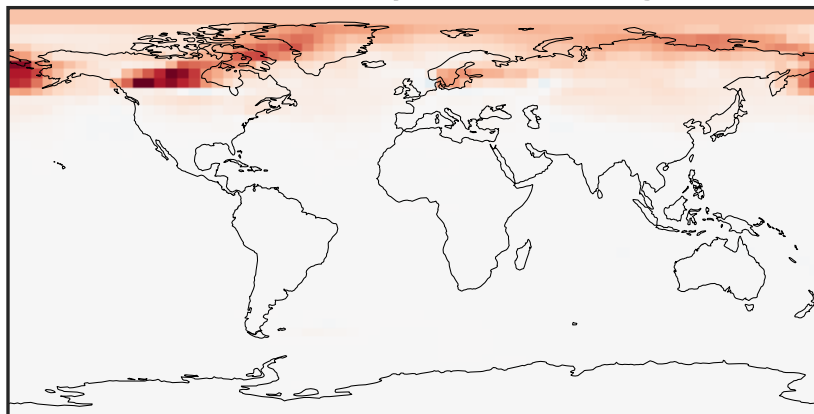
0.0001 0.0002 0.0003
μg/m³

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



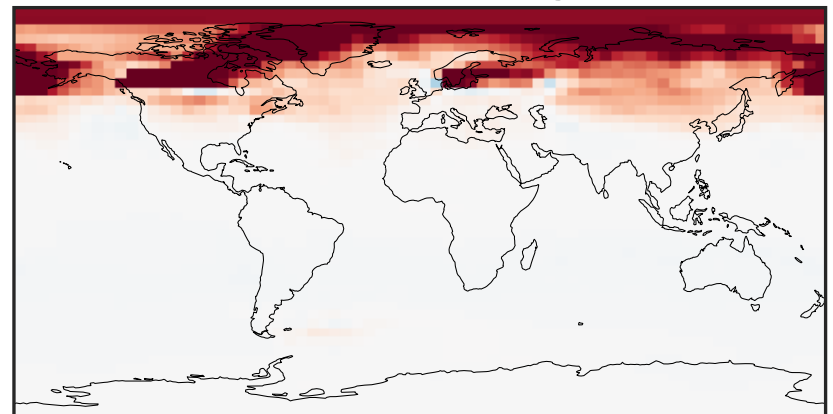
0.0001 0.0002 0.0003
μg/m³

Difference
Dev - Ref, Dynamic Range



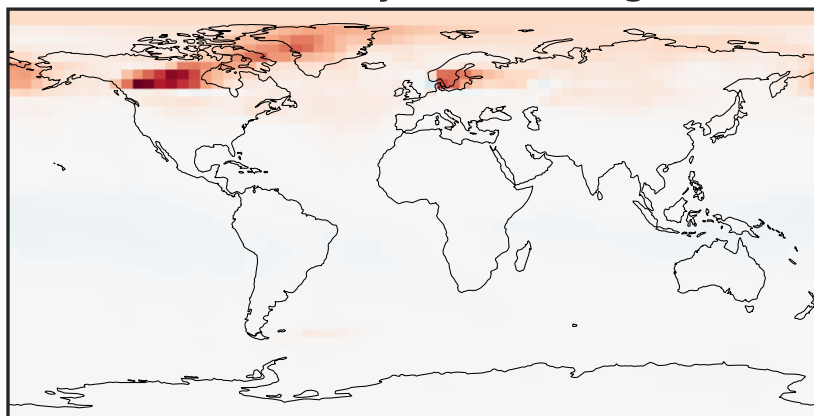
-6 0 6
μg/m³ 1e-8

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



-2 0 2
μg/m³ 1e-8

Ratio
Dev/Ref, Dynamic Range



0.997729 0.998864 1.000000 1.001138 1.002277
unitless

Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless