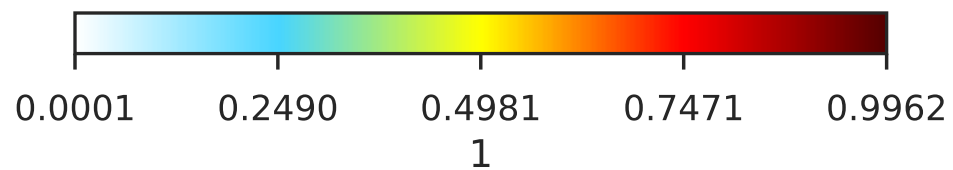
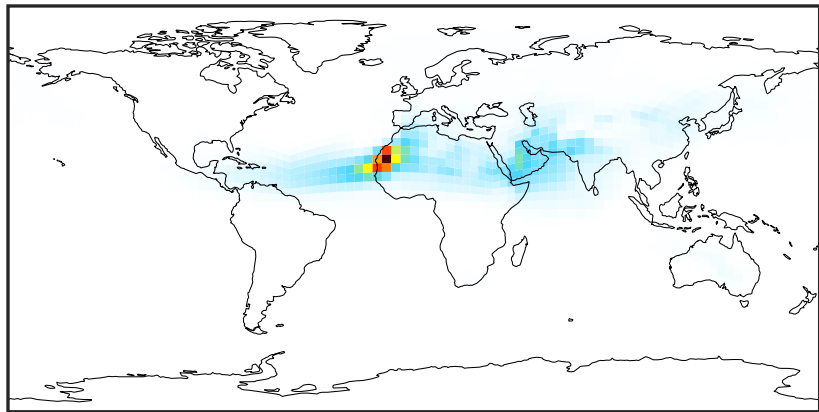
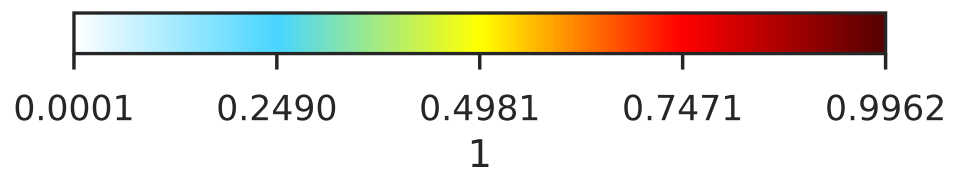
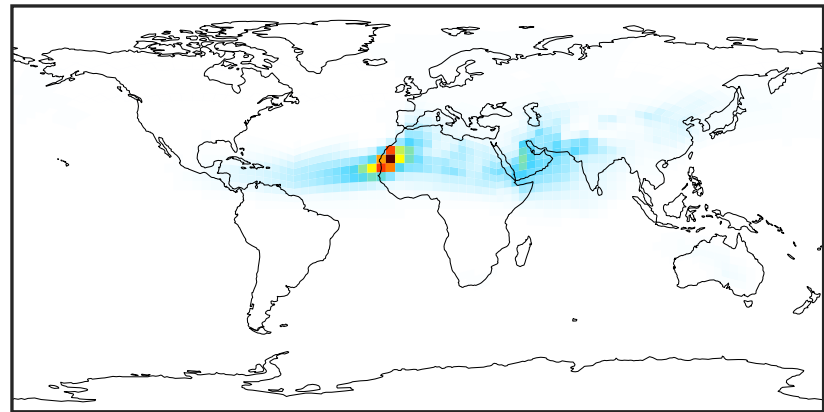


Column_AOD_Dust (Jul2019)

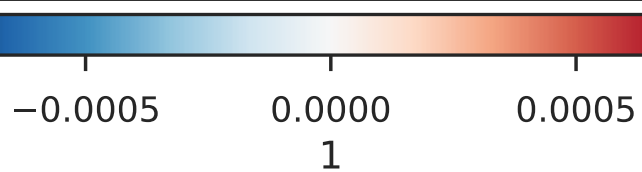
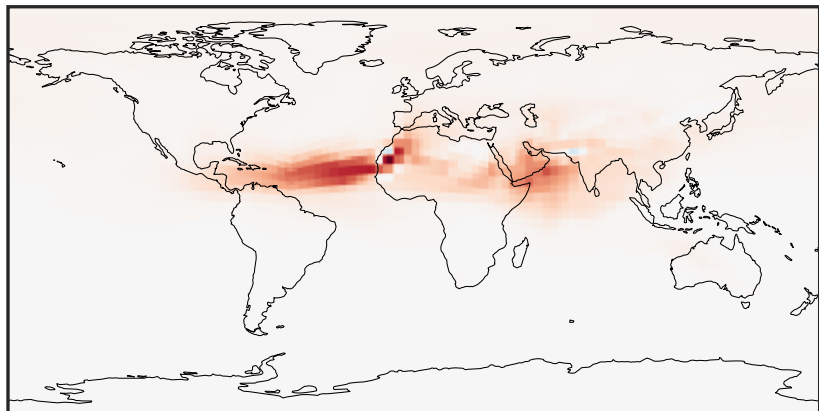
GCHP_14.0.0 (Ref)
c24



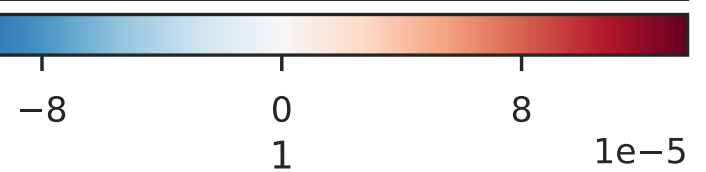
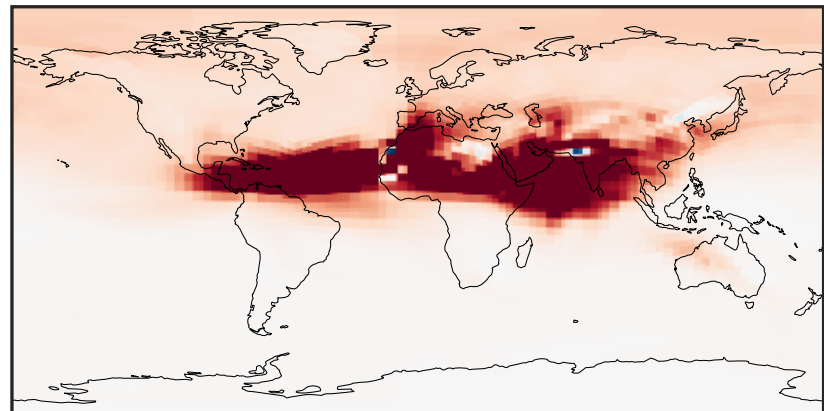
GCHP_14.2.0 (Dev)
c24



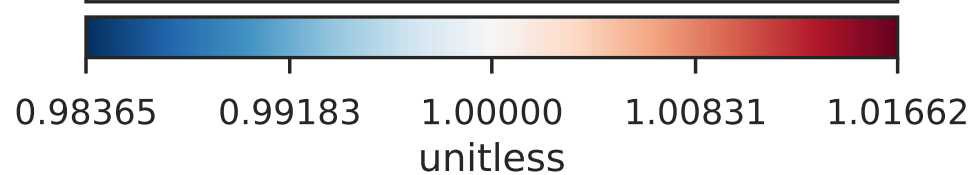
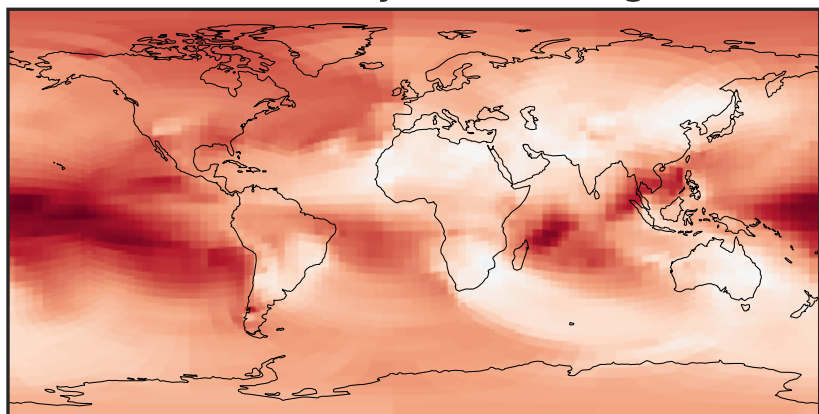
Difference (1x1.25)
Dev - Ref, Dynamic Range



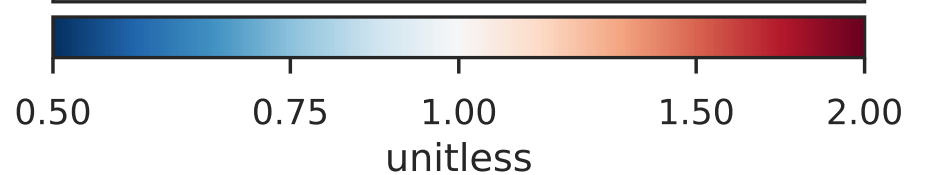
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

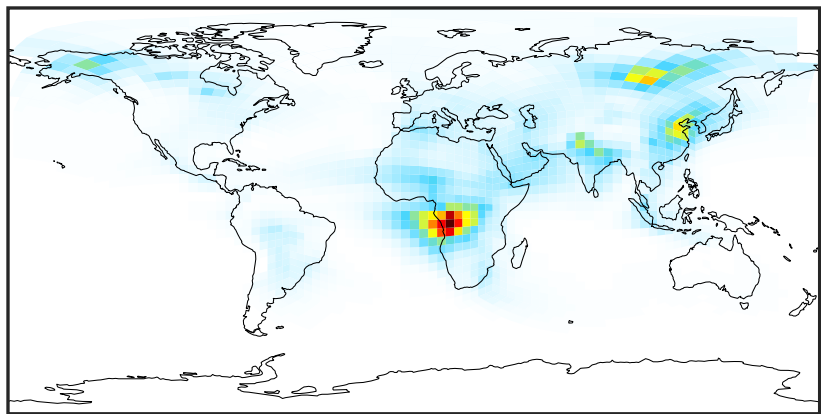


Ratio (1x1.25)
Dev/Ref, Fixed Range



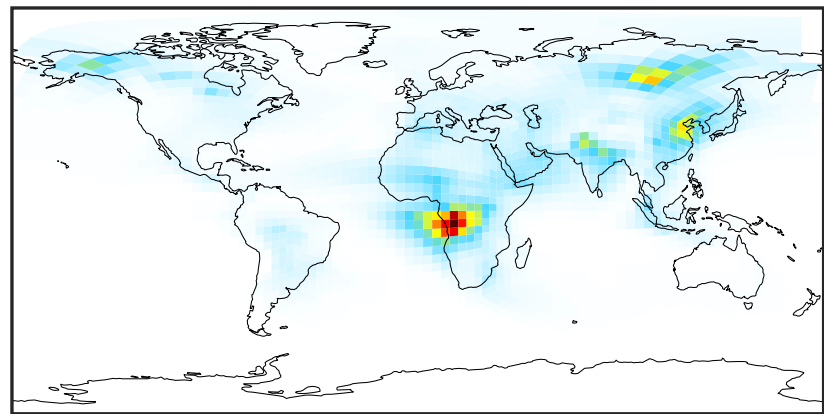
Column_AOD_BCPI (Jul2019)

GCHP_14.0.0 (Ref)
c24



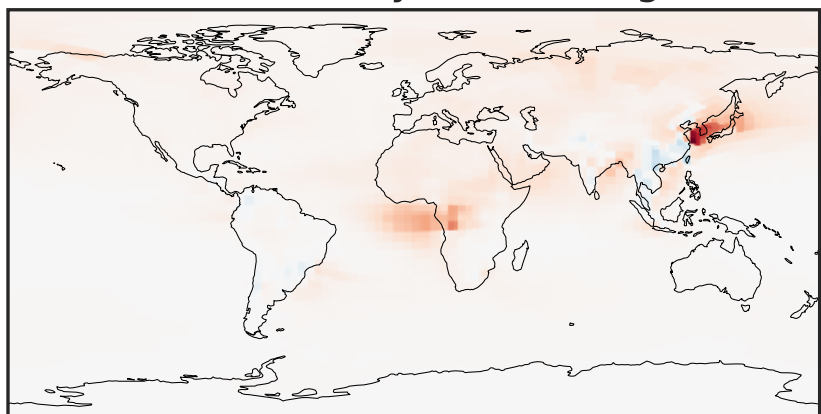
0.015 0.030 0.045
1

GCHP_14.2.0 (Dev)
c24



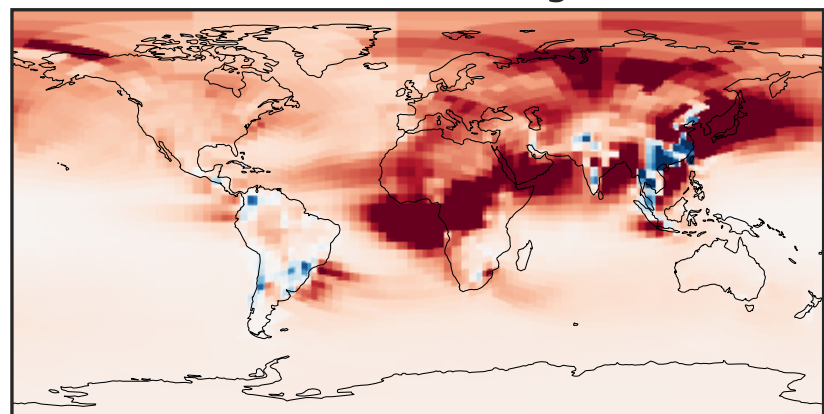
0.015 0.030 0.045
1

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



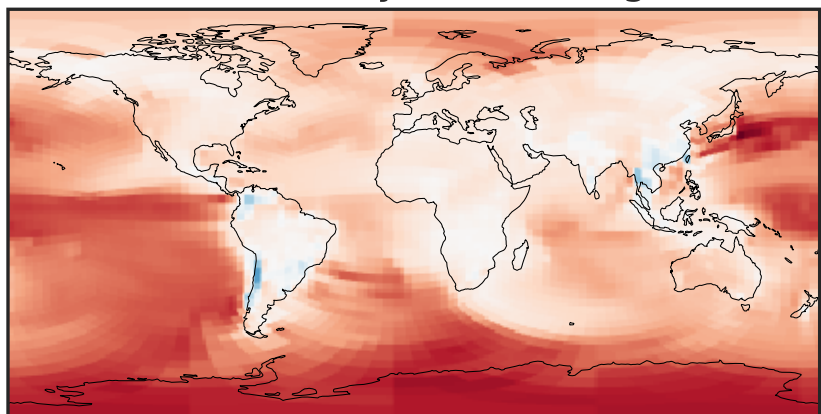
-0.00015 0.00000 0.00015
1

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



-1.5 0.0 1.5
1
1e-5

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.95736 0.97868 1.00000 1.02227 1.04454
unitless

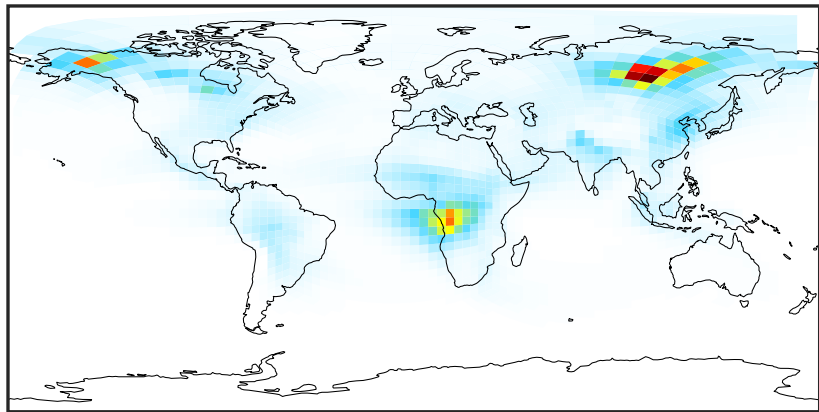
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

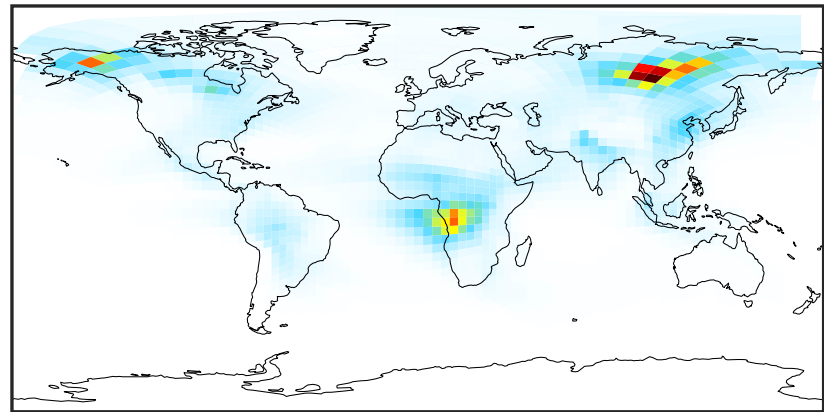
Column_AOD_OCPI (Jul2019)

GCHP_14.0.0 (Ref)
c24



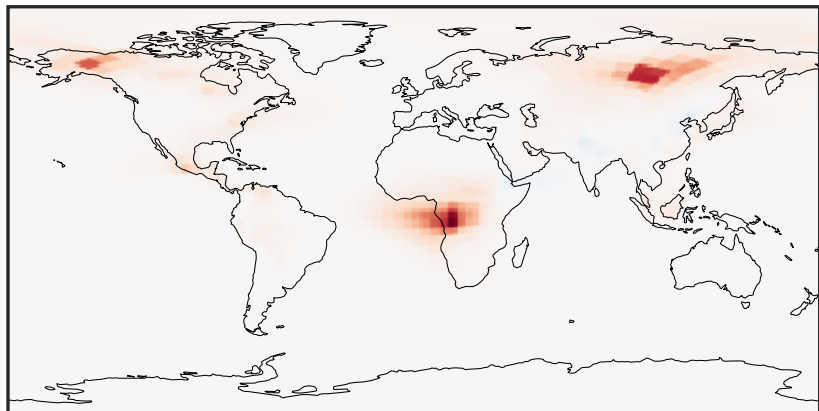
0.0007 0.1890 0.3781 0.5671 0.7569
1

GCHP_14.2.0 (Dev)
c24



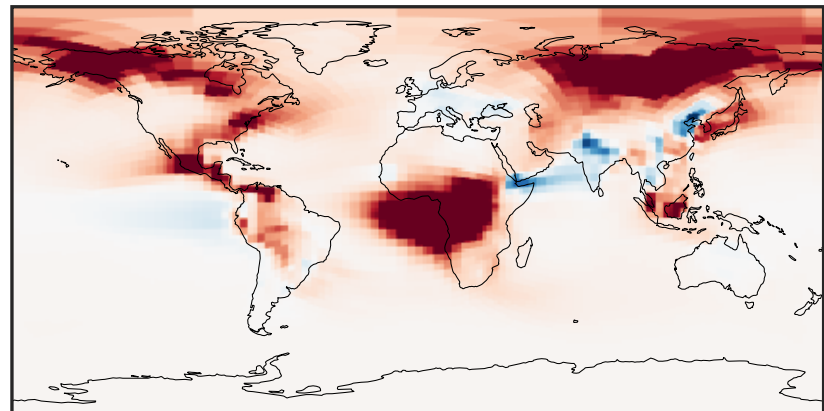
0.0007 0.1890 0.3781 0.5671 0.7569
1

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



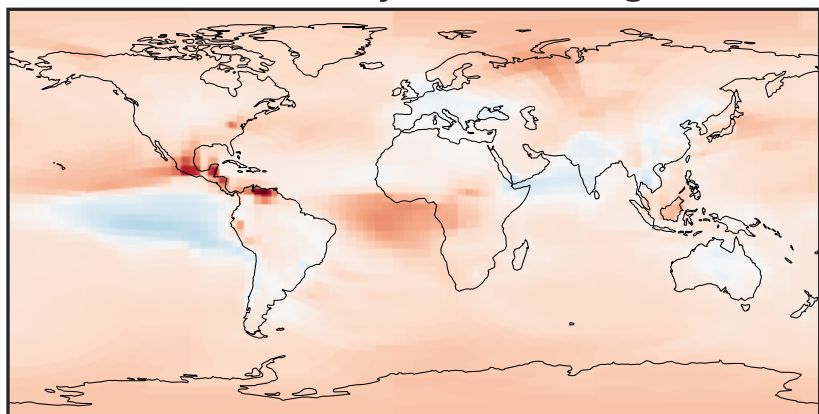
-0.008 0.000 0.008
1

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



-0.0006 0.0000 0.0006
1

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.9286 0.9643 1.0000 1.0385 1.0769
unitless

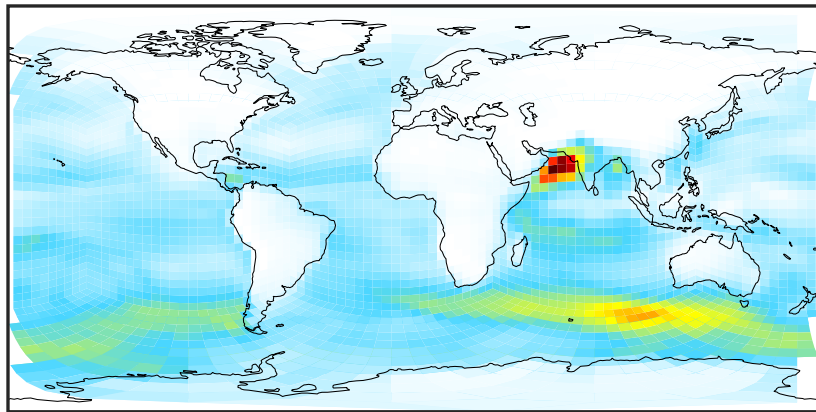
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

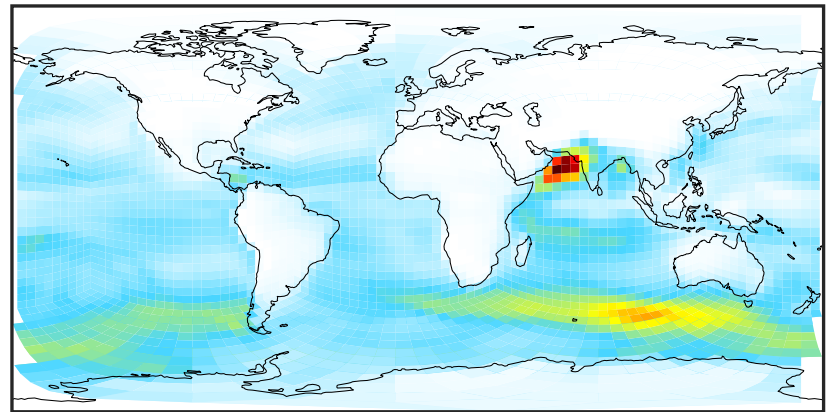
Column_AOD_SALA (Jul2019)

GCHP_14.0.0 (Ref)
c24



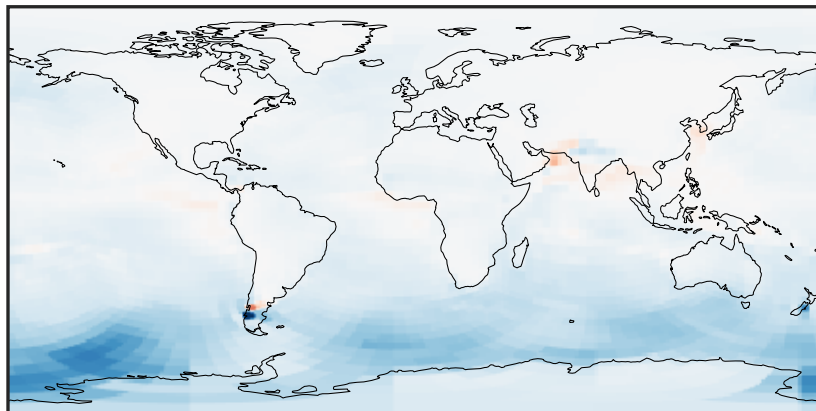
0.0000 0.0298 0.0596 0.0894 0.1192
1

GCHP_14.2.0 (Dev)
c24



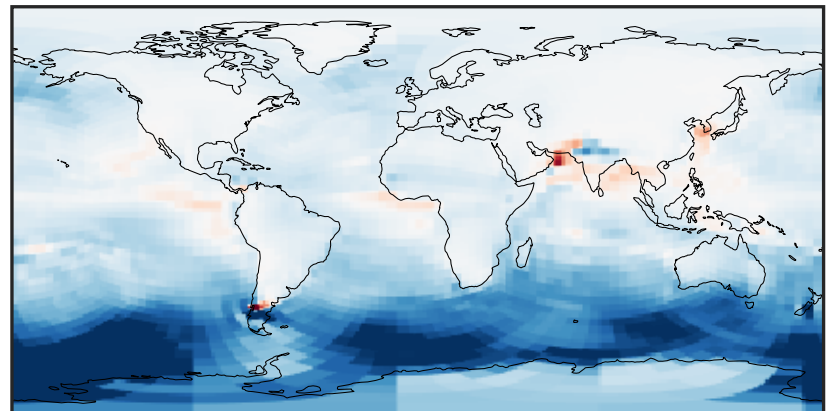
0.0000 0.0298 0.0596 0.0894 0.1192
1

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



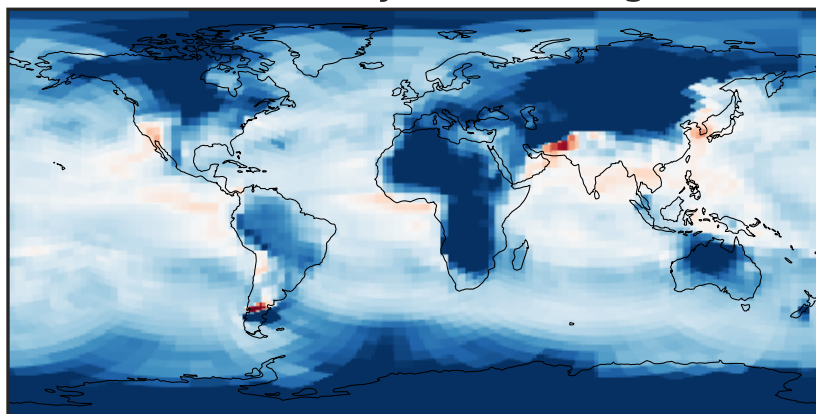
-0.00015 0.00000 0.00015
1

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



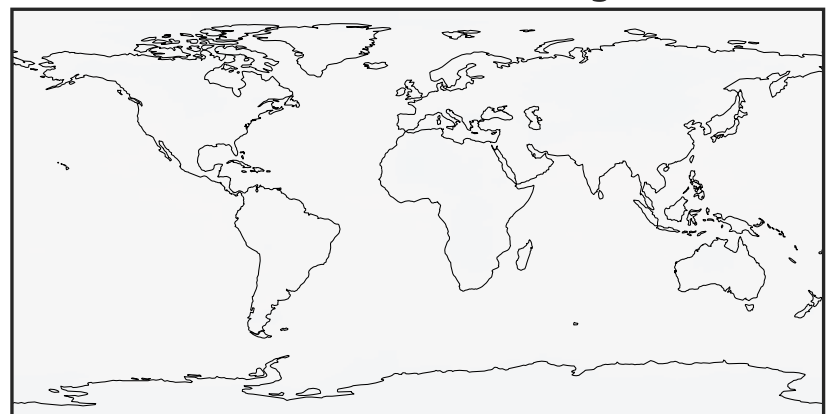
-5 0 5
1e-5

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.99460 0.99730 1.00000 1.00271 1.00543
unitless

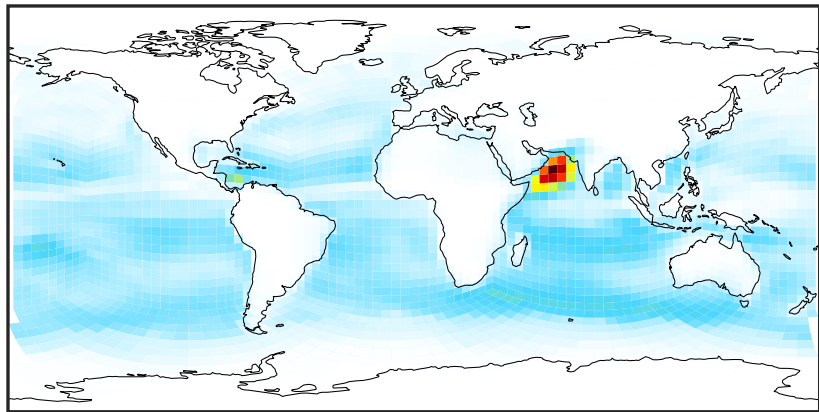
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

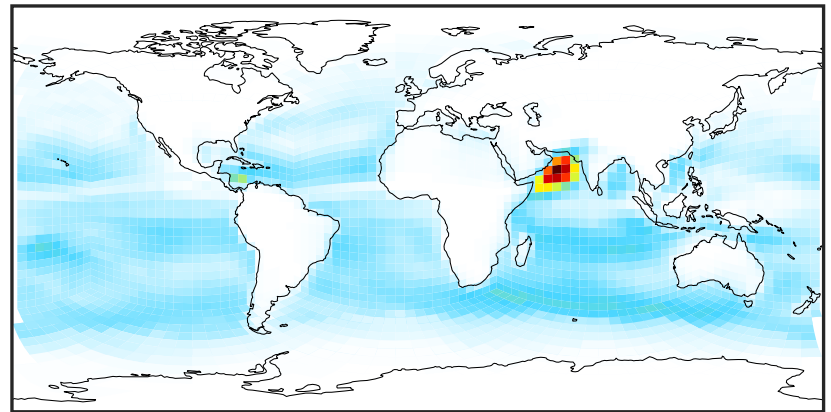
Column_AOD_SALC (Jul2019)

GCHP_14.0.0 (Ref)
c24



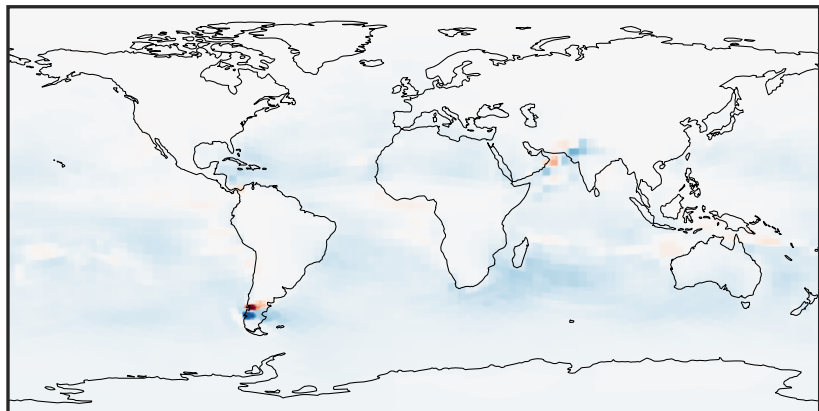
0.0000 0.0945 0.1890 0.2834 0.3779
1

GCHP_14.2.0 (Dev)
c24



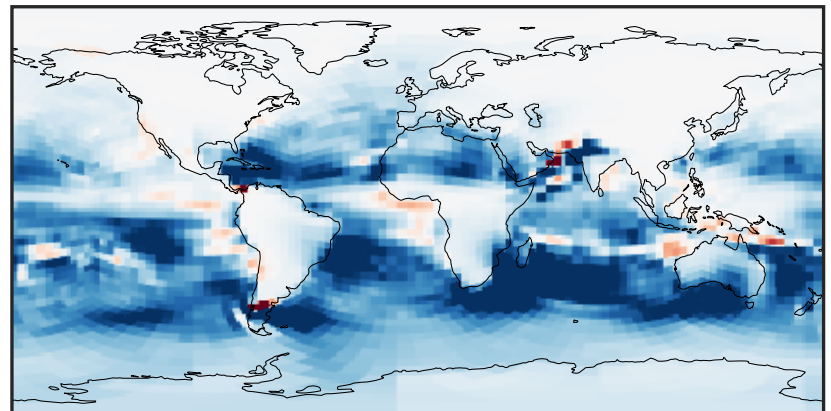
0.0000 0.0945 0.1890 0.2834 0.3779
1

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



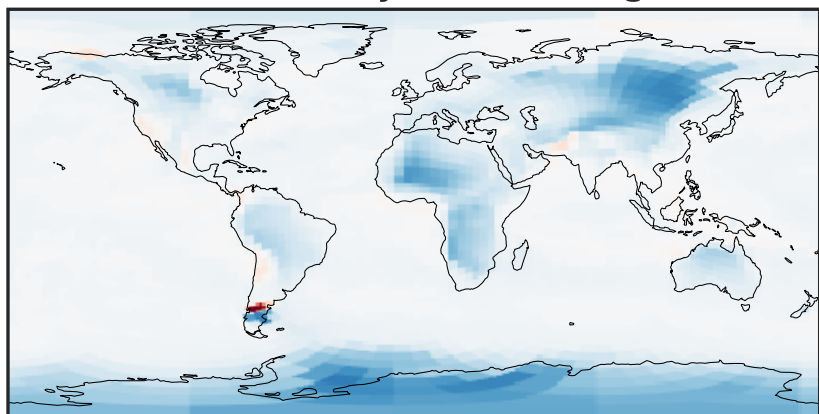
-0.00015 0.00000 0.00015
1

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



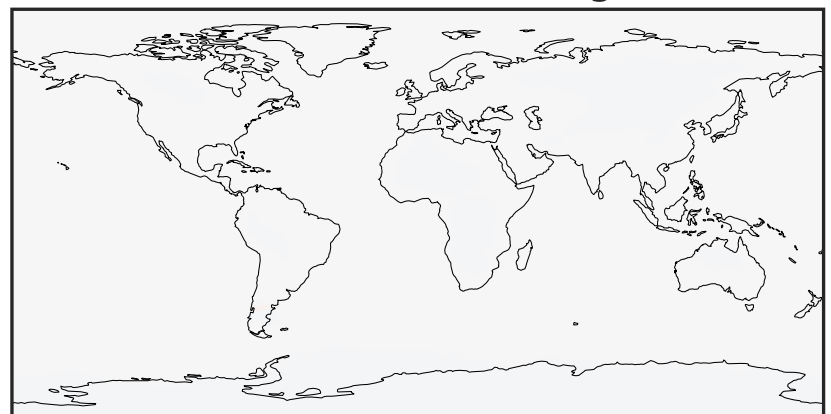
-2.5 0.0 2.5
1 1e-5

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.97771 0.98885 1.00000 1.01140 1.02280
unitless

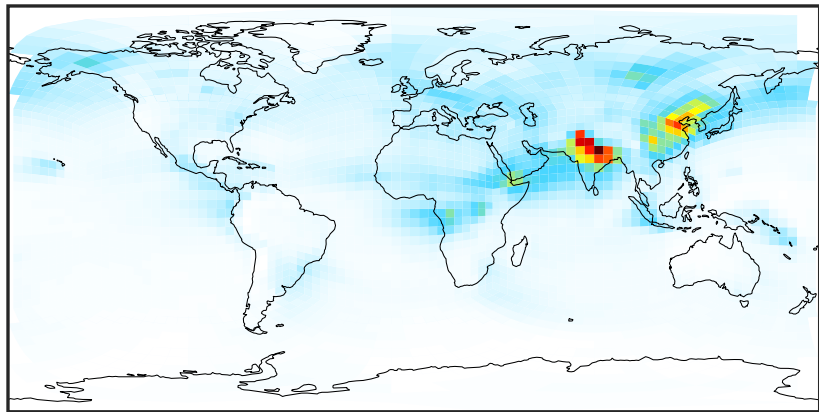
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

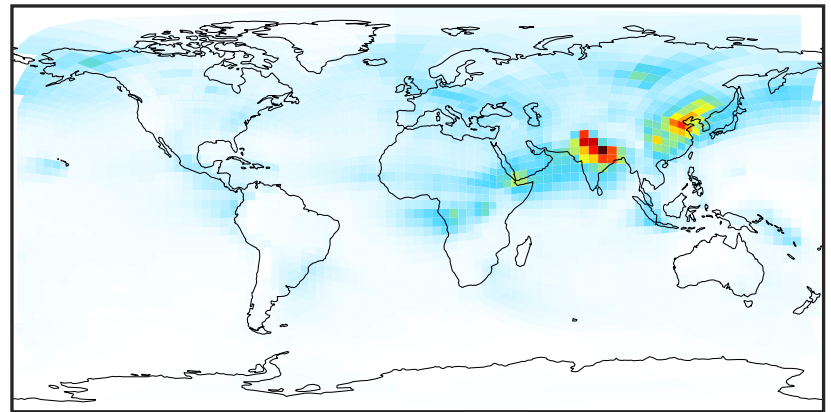
Column_AOD_SO4 (Jul2019)

GCHP_14.0.0 (Ref)
c24



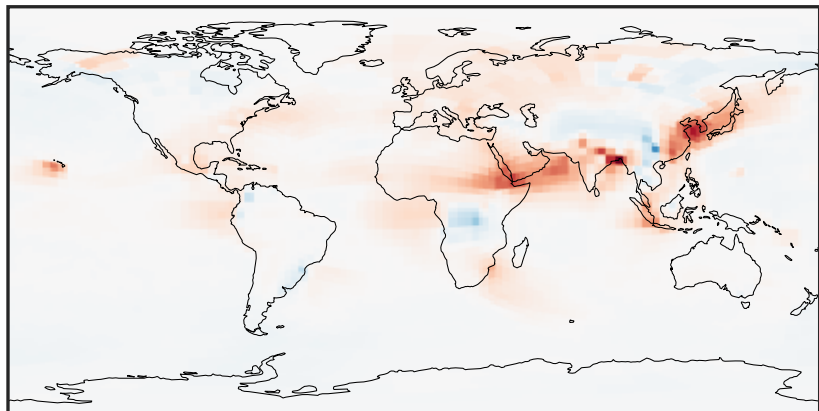
0.0017 0.1312 0.2625 0.3937 0.5266
1

GCHP_14.2.0 (Dev)
c24



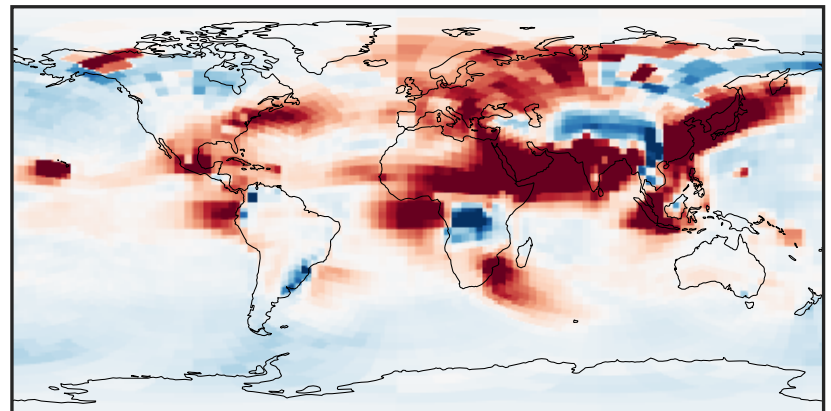
0.0017 0.1312 0.2625 0.3937 0.5266
1

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



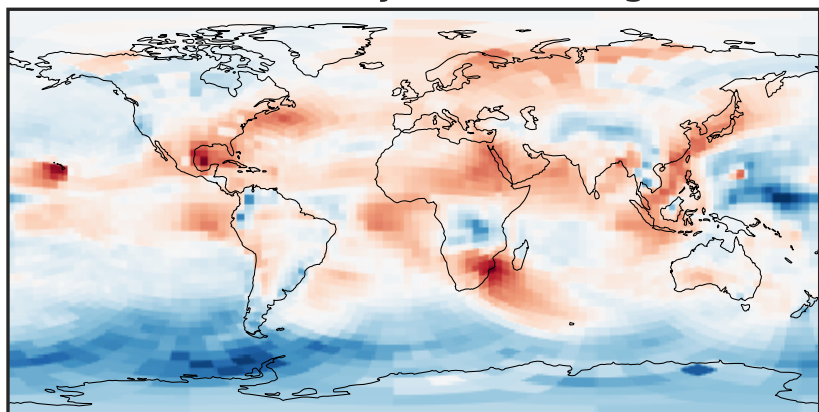
-0.008 0.000 0.008
1

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



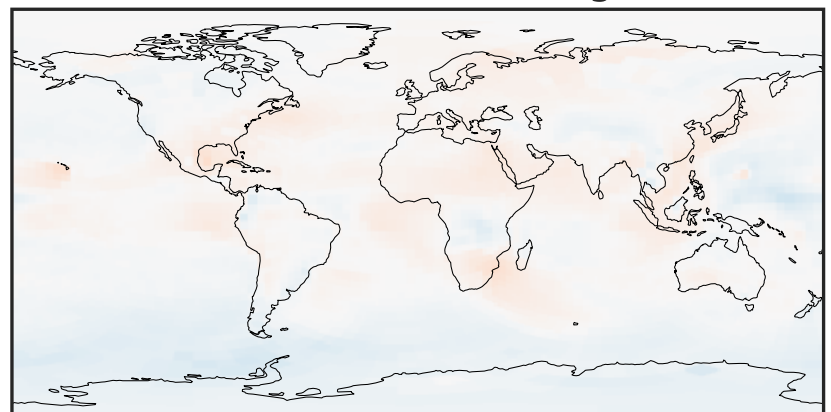
-0.0015 0.0000 0.0015
1

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.8853 0.9427 1.0000 1.0648 1.1295
unitless

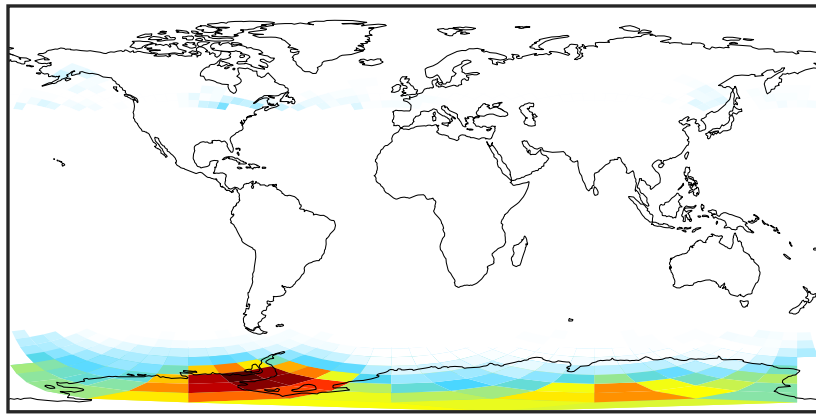
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

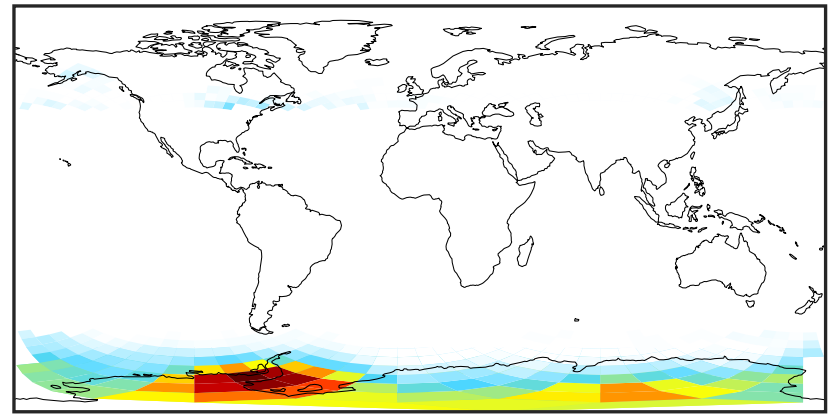
Column_AOD_Polar_Strat_Cloud (Jul2019)

GCHP_14.0.0 (Ref)
c24



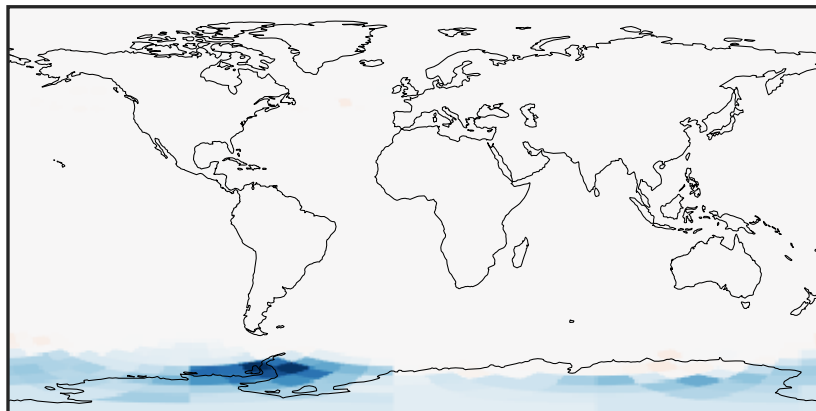
0.0000 0.0334 0.0667 0.1001 0.1334
1

GCHP_14.2.0 (Dev)
c24



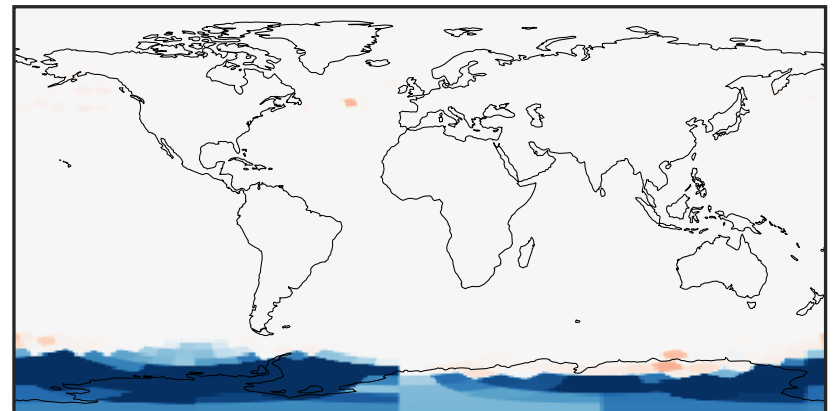
0.0000 0.0334 0.0667 0.1001 0.1334
1

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



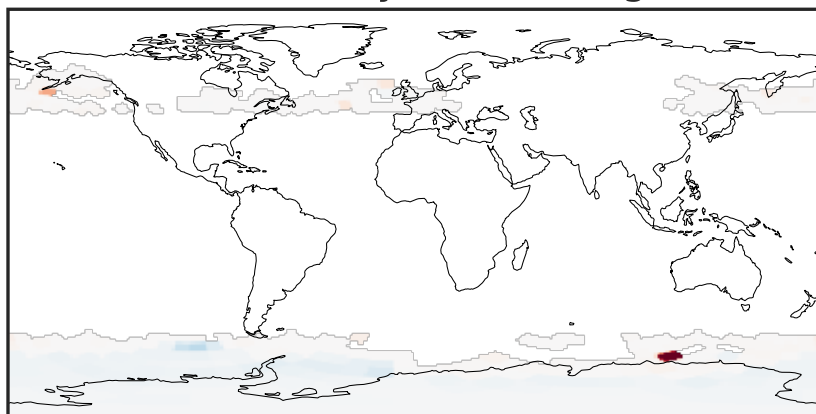
-0.002 0.000 0.002
1

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



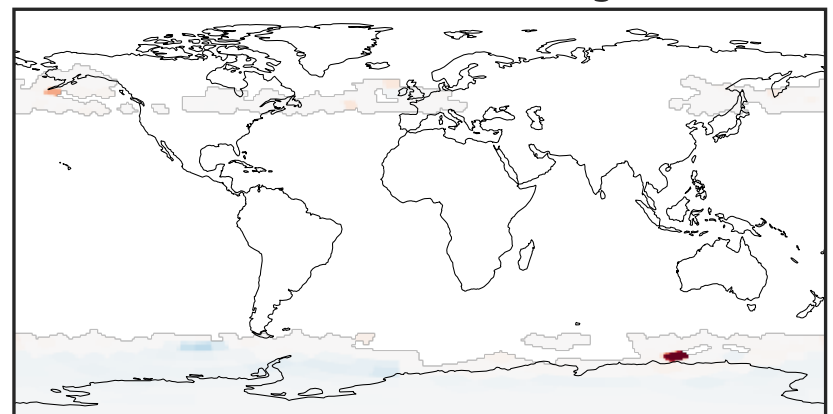
-0.0005 0.0000 0.0005
1

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.497 0.749 1.000 1.505 2.011
unitless

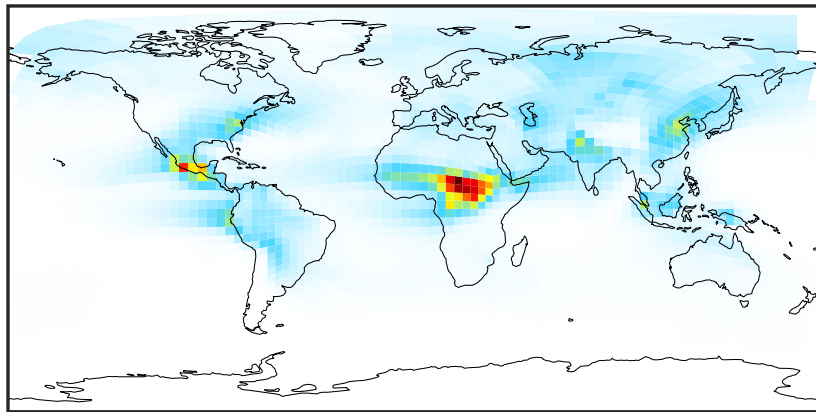
Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

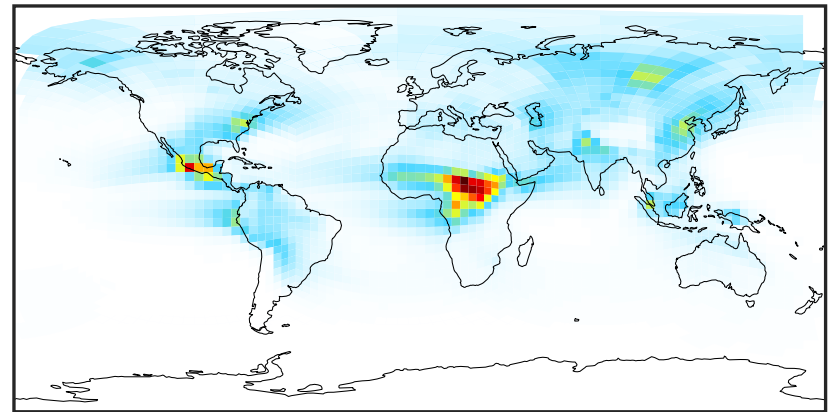
Column_AOD_SOA_from_Aqueous_ISOP (Jul2019)

GCHP_14.0.0 (Ref)
c24



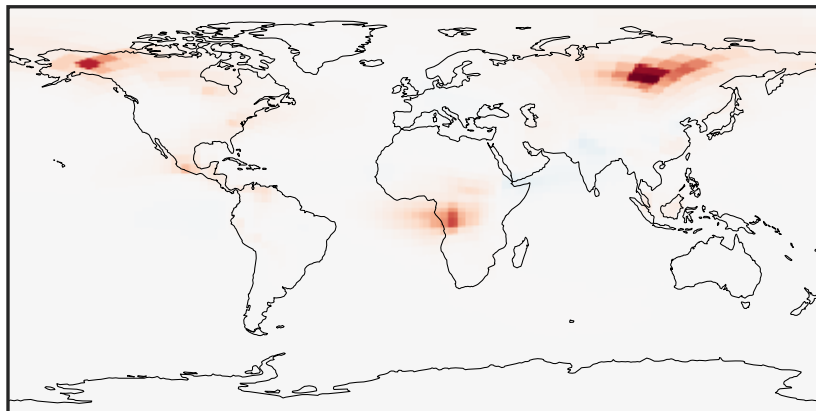
0.015 1 0.030

GCHP_14.2.0 (Dev)
c24



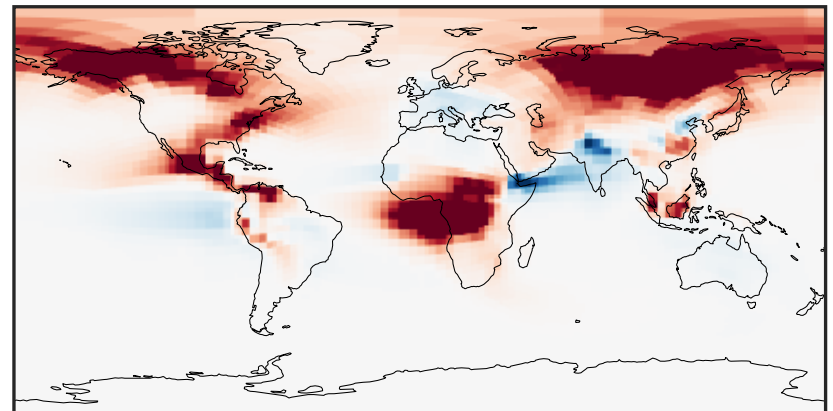
0.015 1 0.030

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



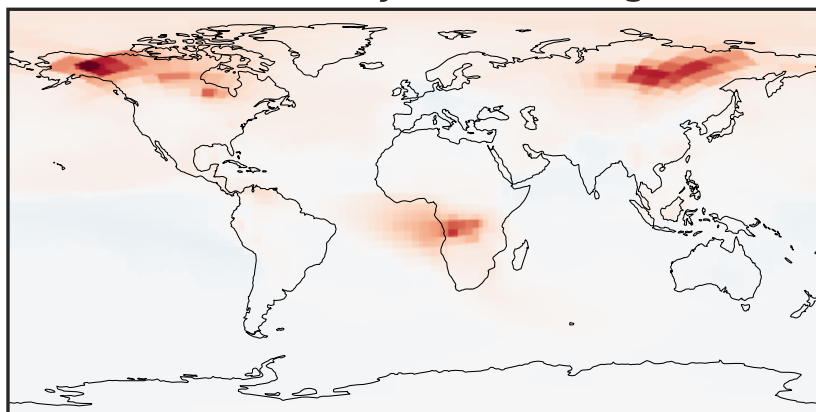
-0.006 0.000 0.006

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



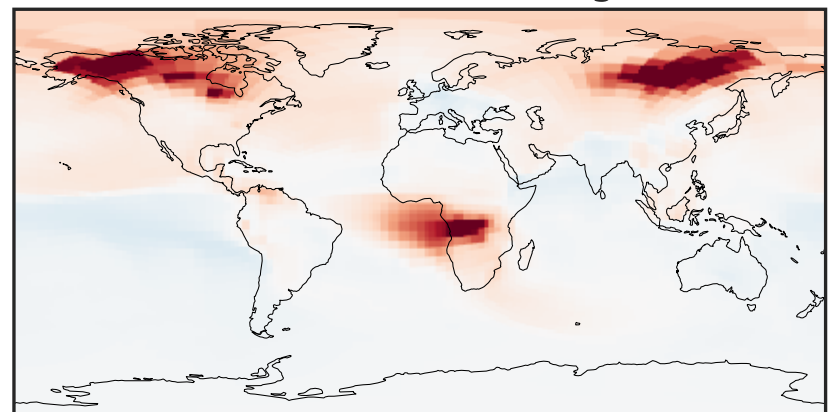
-0.0005 0.0000 0.0005

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.243 0.621 1.000 2.560 4.120
unitless

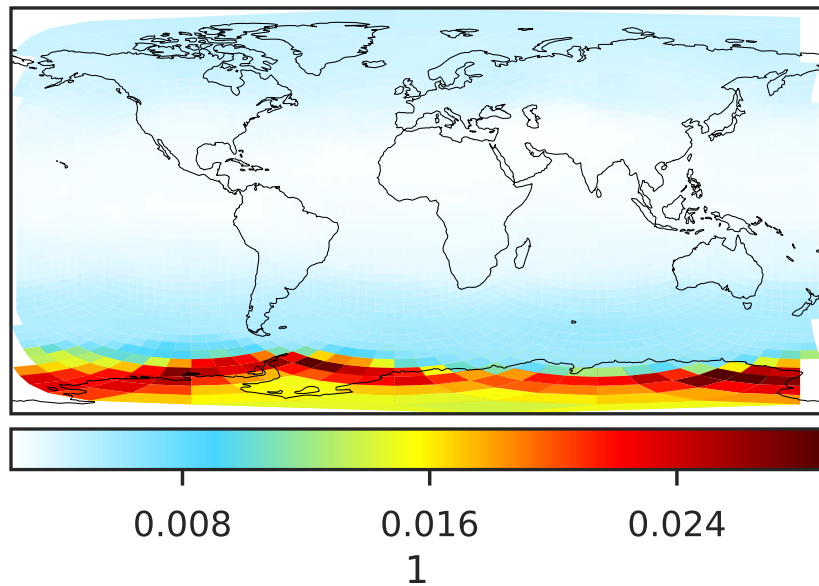
Ratio (1x1.25)
Dev/Ref, Fixed Range



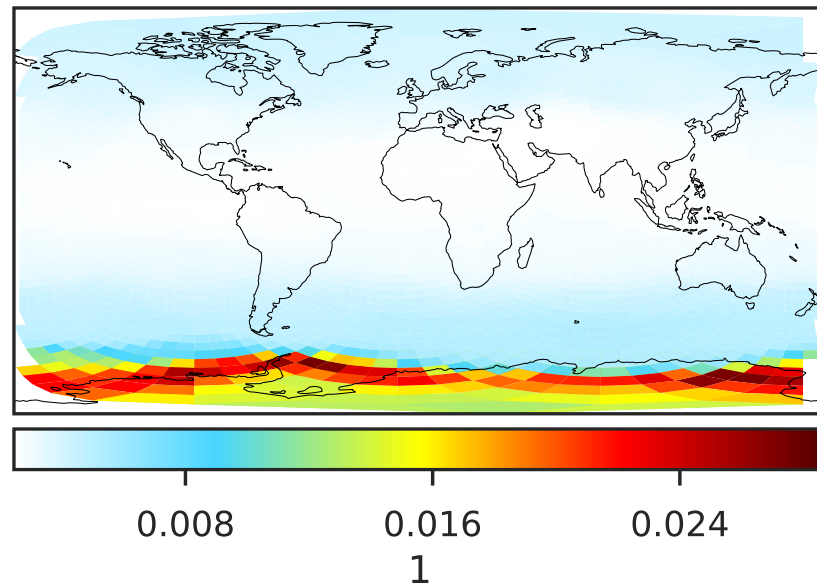
0.50 0.75 1.00 1.50 2.00
unitless

Column_AOD_Strat_Liquid_Aerosol (Jul2019)

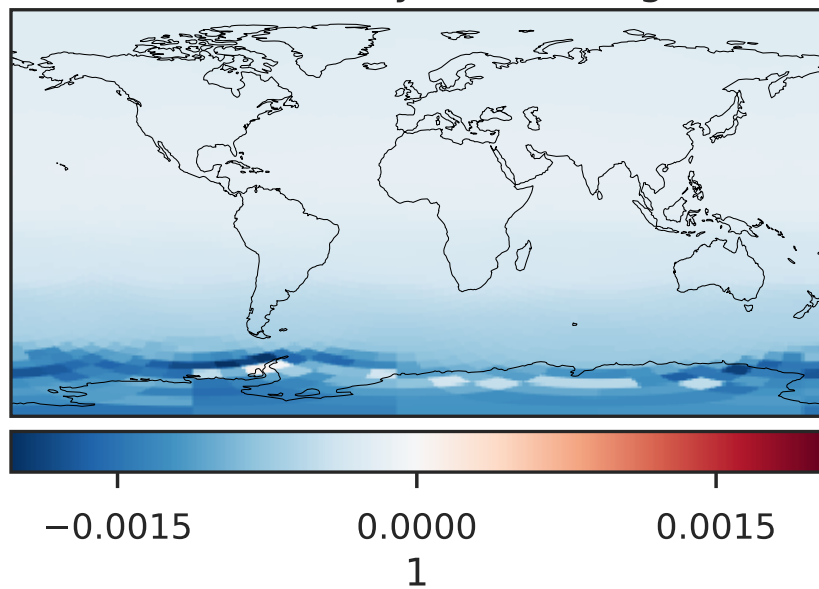
GCHP_14.0.0 (Ref)
c24



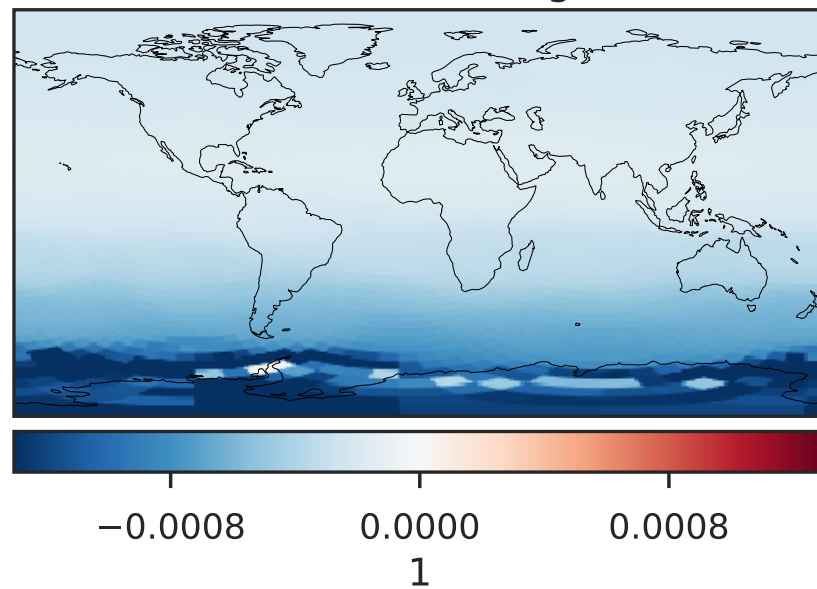
GCHP_14.2.0 (Dev)
c24



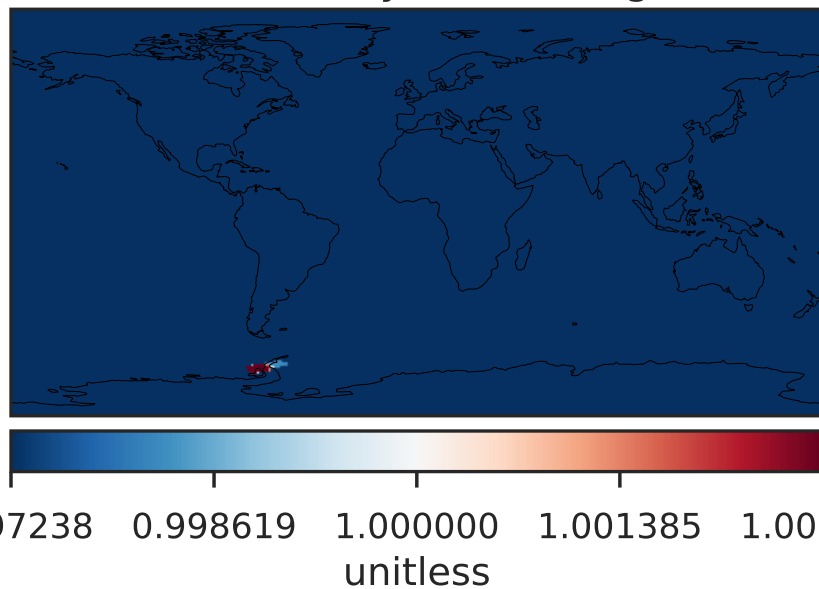
Difference (1x1.25)
Dev - Ref, Dynamic Range



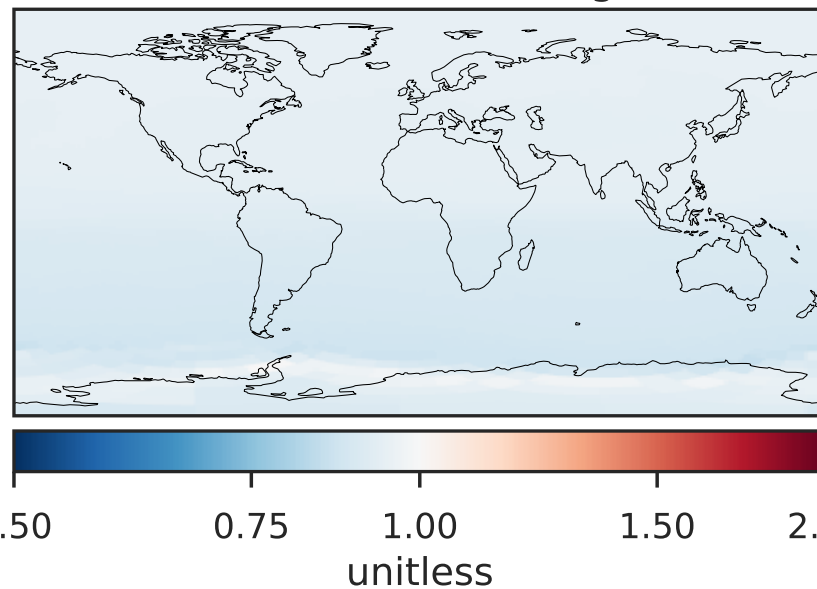
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range

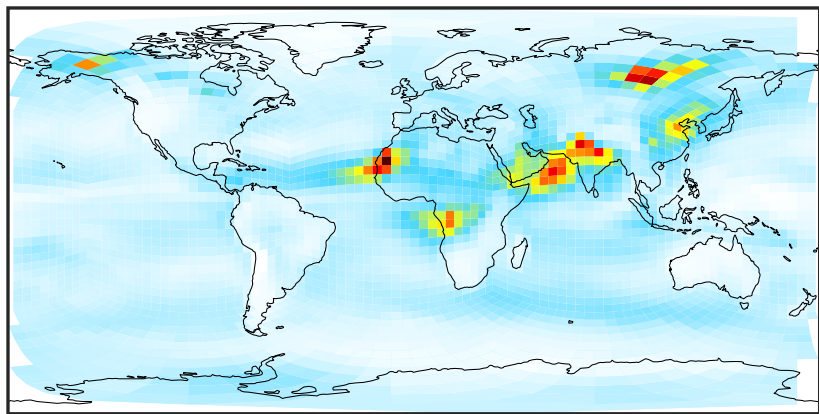


Ratio (1x1.25)
Dev/Ref, Fixed Range



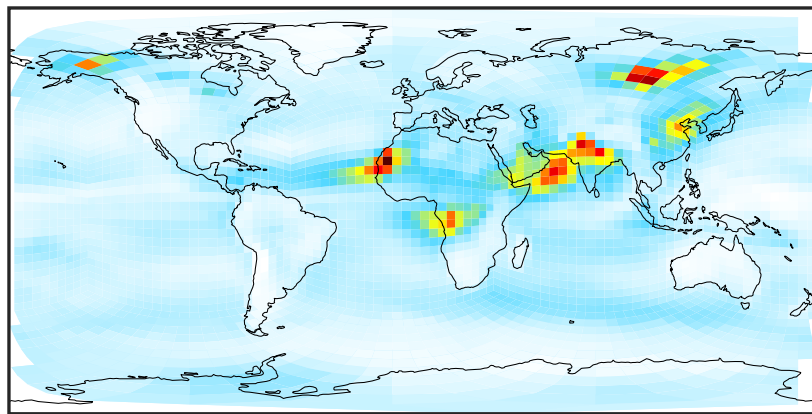
Column_AOD_Total (Jul2019)

GCHP_14.0.0 (Ref)
c24



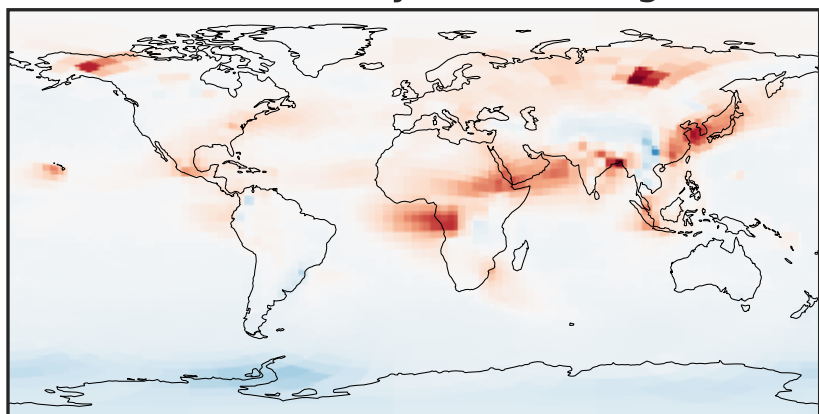
0.009 0.265 0.530 0.794 1.068
1

GCHP_14.2.0 (Dev)
c24



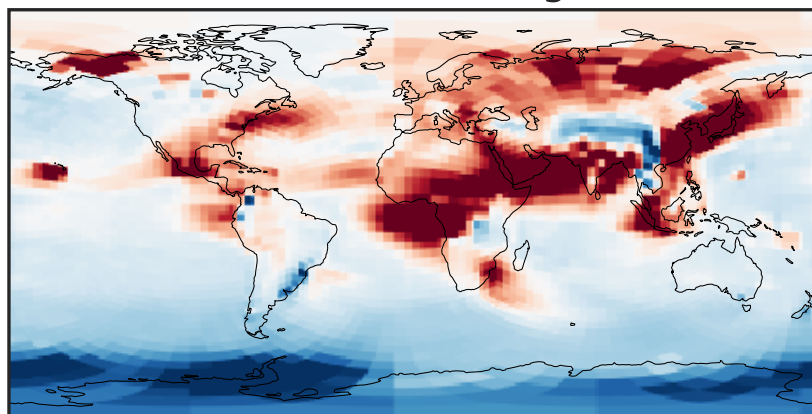
0.009 0.265 0.530 0.794 1.068
1

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



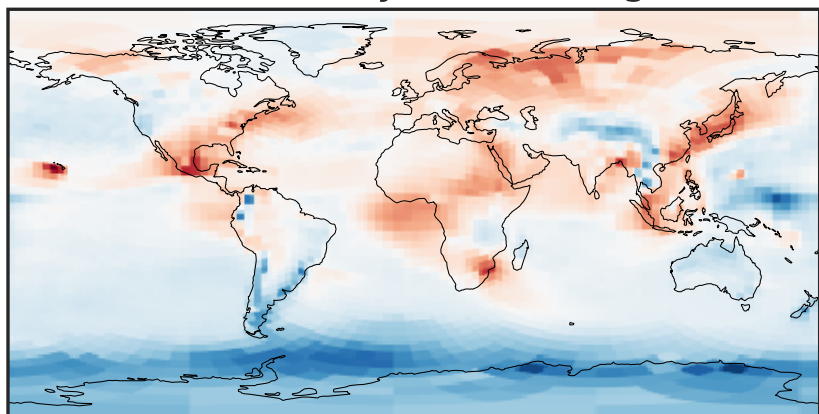
-0.008 0.000 0.008
1

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



-0.0015 0.0000 0.0015
1

Ratio (1x1.25)
Dev/Ref, Dynamic Range



0.9442 0.9721 1.0000 1.0296 1.0591
unitless

Ratio (1x1.25)
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless