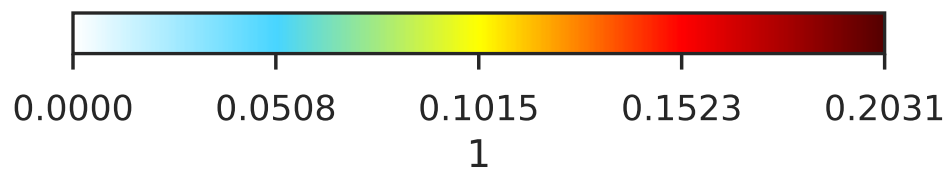
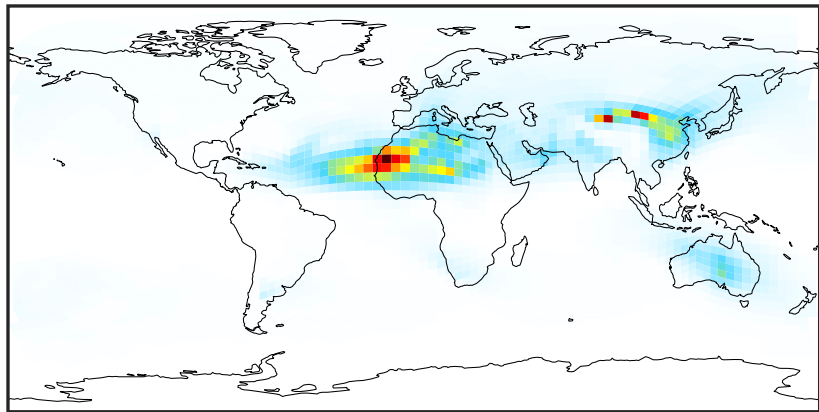
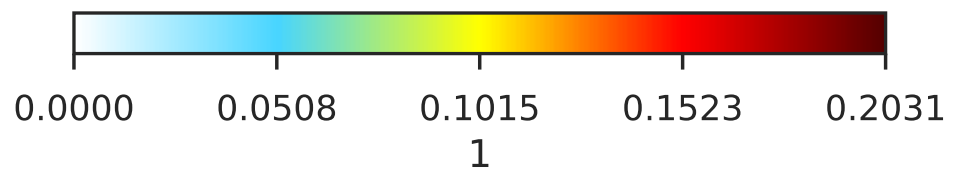
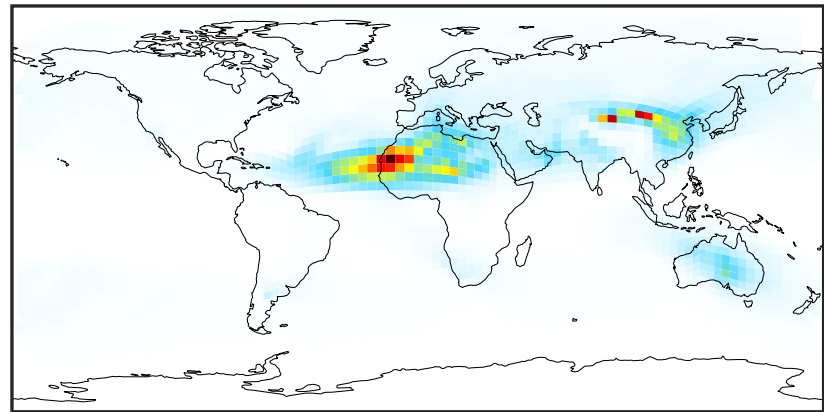


# Column\_AOD\_Dust (Oct2019)

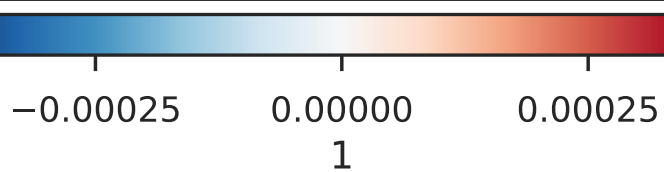
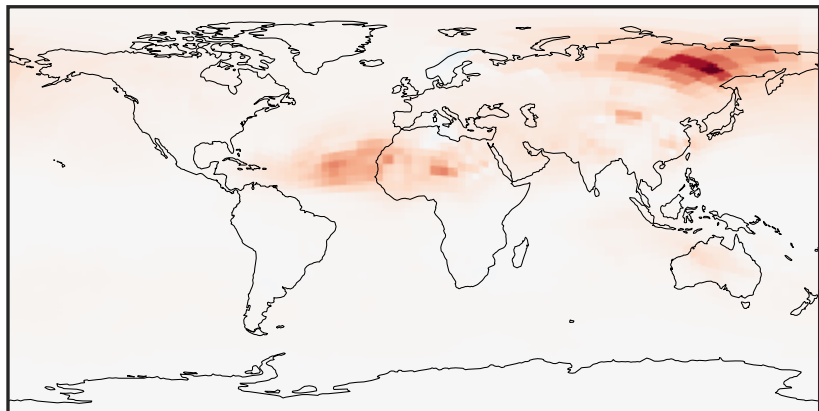
GCHP\_14.0.0 (Ref)  
c24



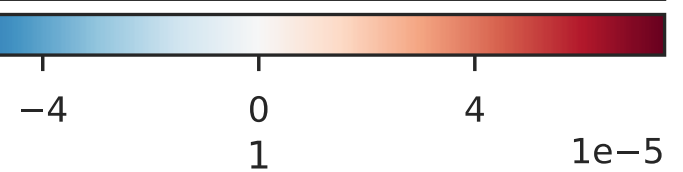
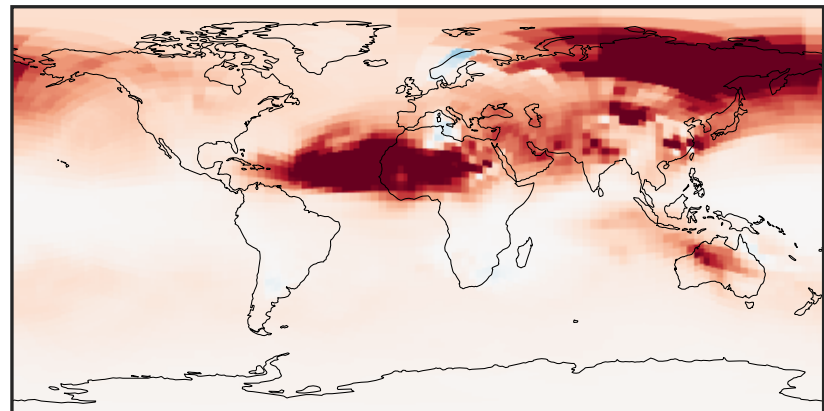
GCHP\_14.2.0 (Dev)  
c24



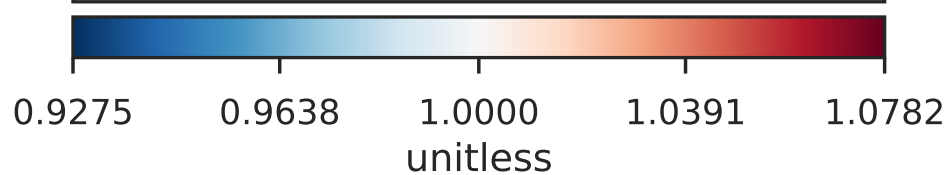
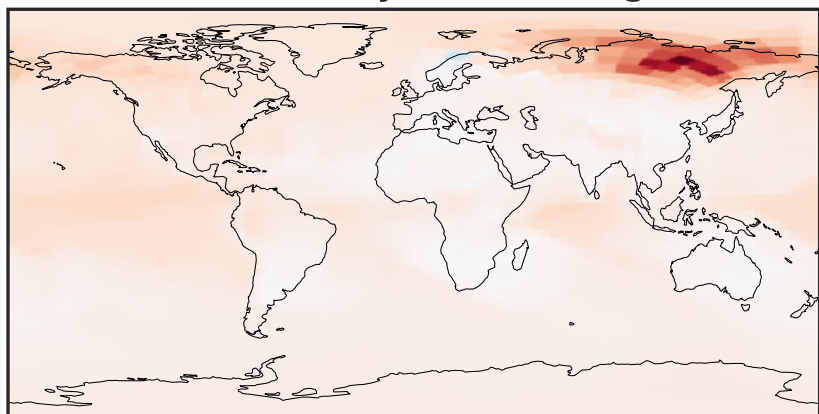
Difference (1x1.25)  
Dev - Ref, Dynamic Range



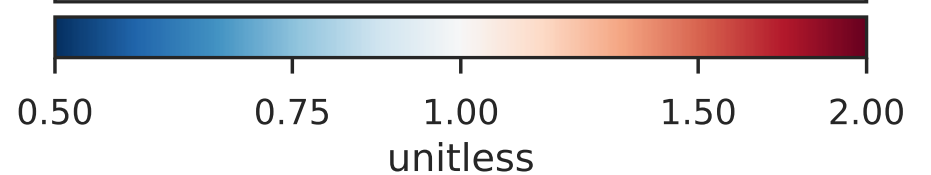
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

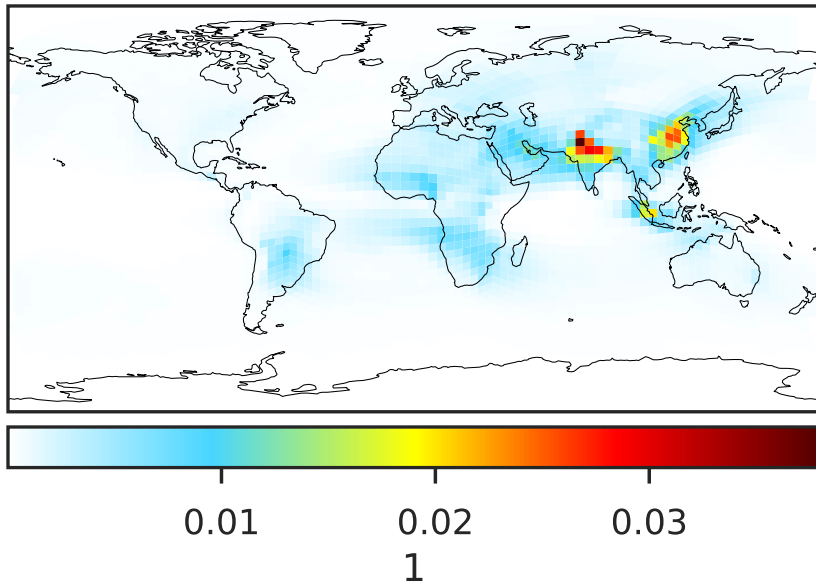


Ratio (1x1.25)  
Dev/Ref, Fixed Range

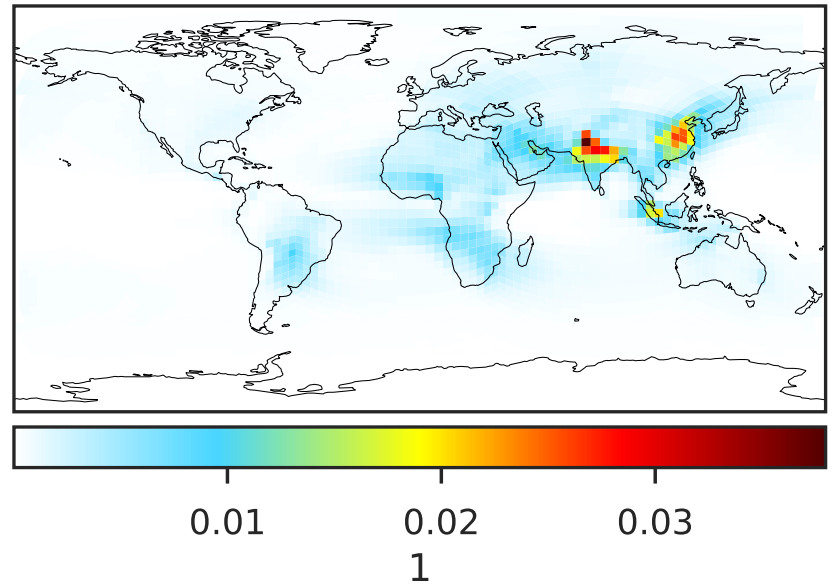


# Column\_AOD\_BCPI (Oct2019)

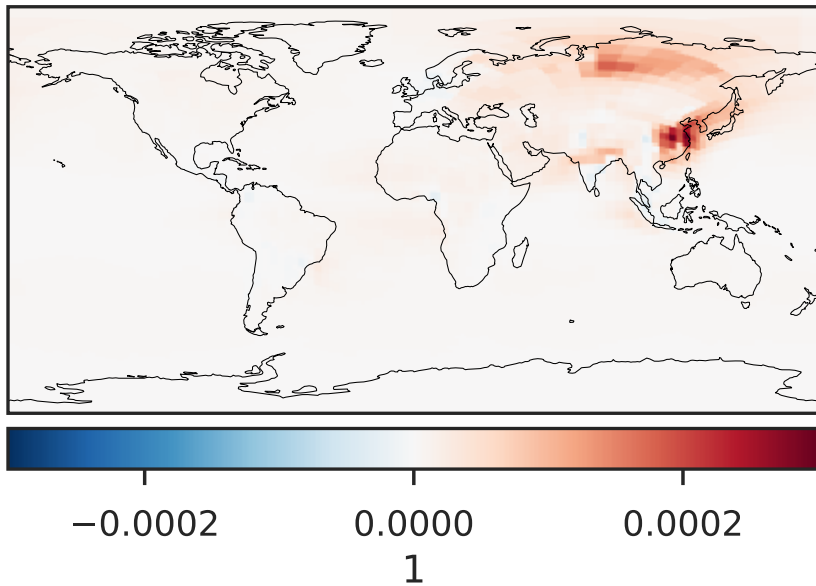
GCHP\_14.0.0 (Ref)  
c24



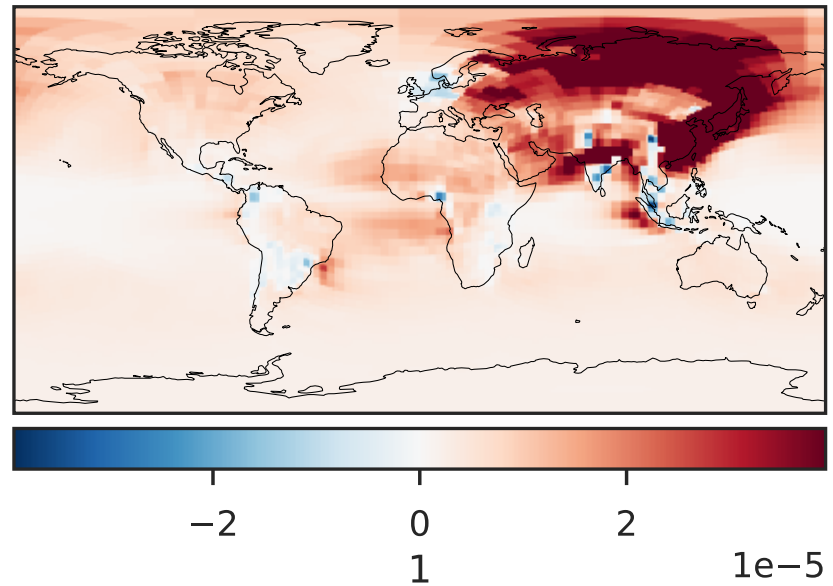
GCHP\_14.2.0 (Dev)  
c24



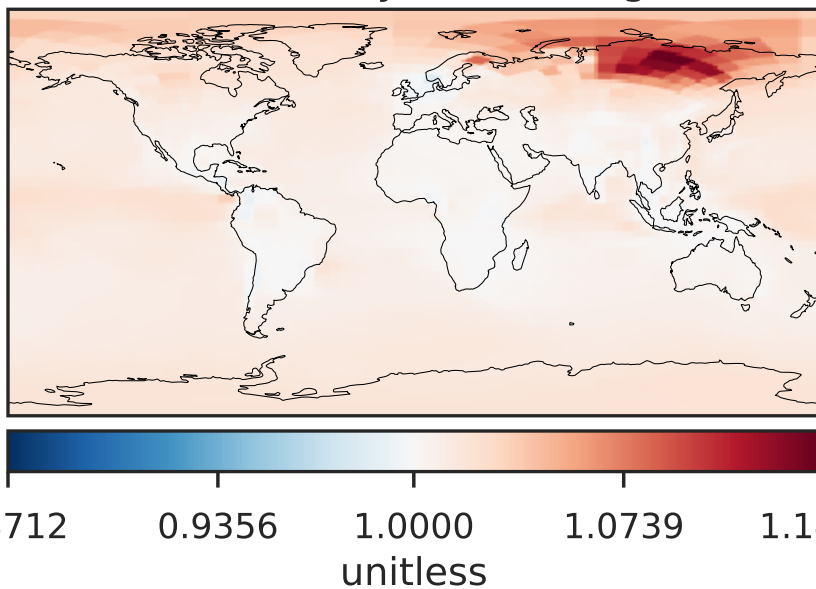
Difference (1x1.25)  
Dev - Ref, Dynamic Range



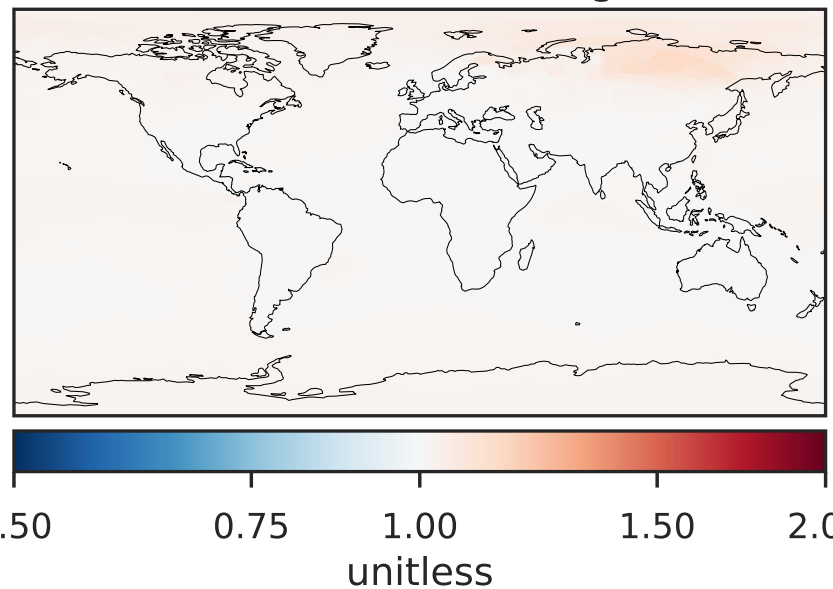
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

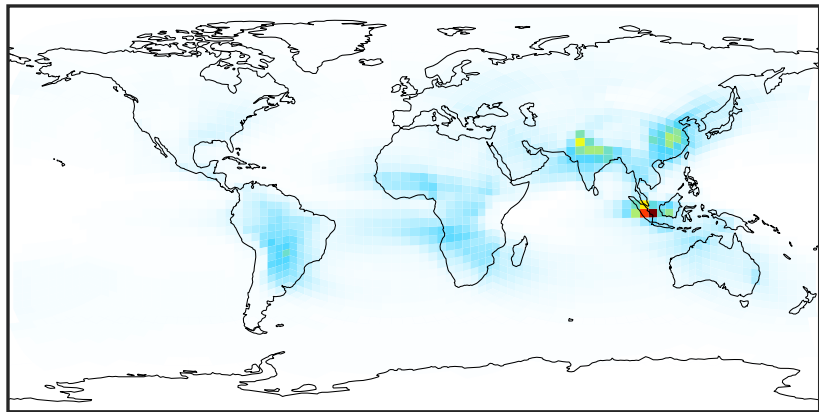


Ratio (1x1.25)  
Dev/Ref, Fixed Range



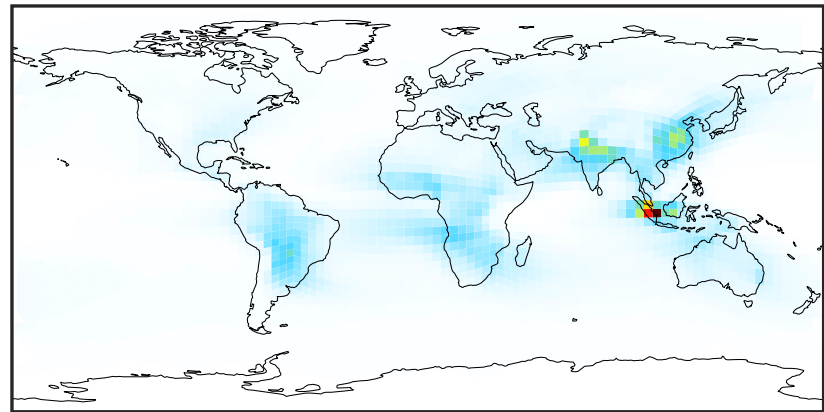
# Column\_AOD\_OCPI (Oct2019)

GCHP\_14.0.0 (Ref)  
c24



0.0007 0.1342 0.2684 0.4026 0.5375  
1

GCHP\_14.2.0 (Dev)  
c24



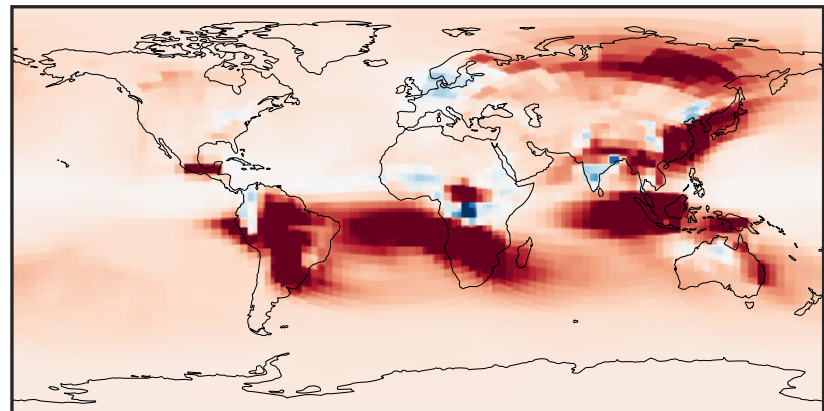
0.0007 0.1342 0.2684 0.4026 0.5375  
1

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



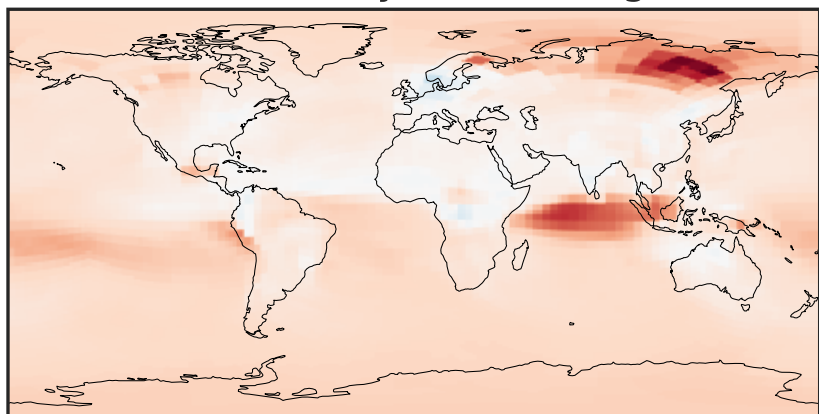
-0.015 0.000 0.015  
1

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



-0.0003 0.0000 0.0003  
1

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



0.9124 0.9562 1.0000 1.0480 1.0960  
unitless

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

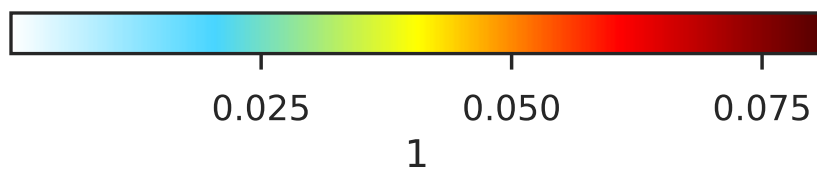
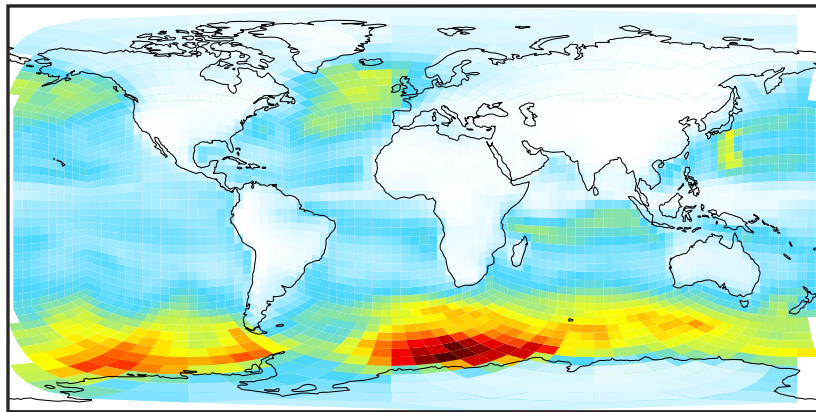


0.50 0.75 1.00 1.50 2.00  
unitless

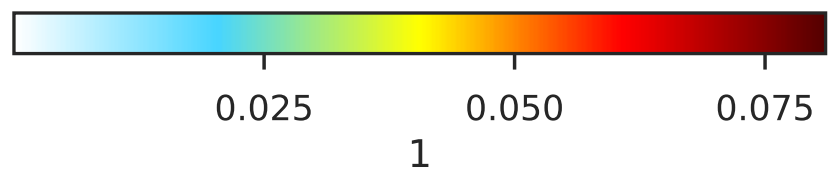
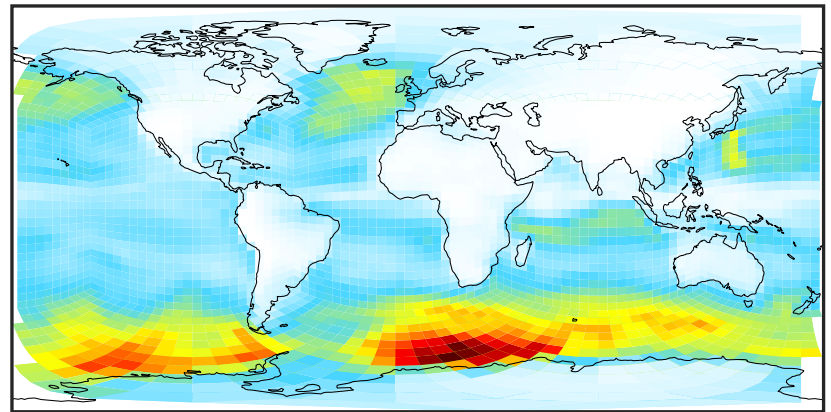


# Column\_AOD\_SALA (Oct2019)

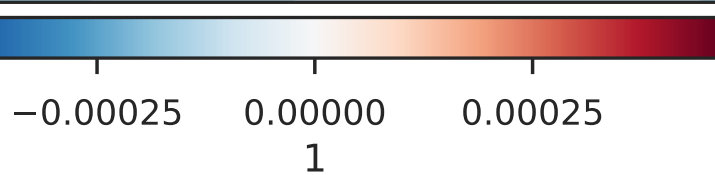
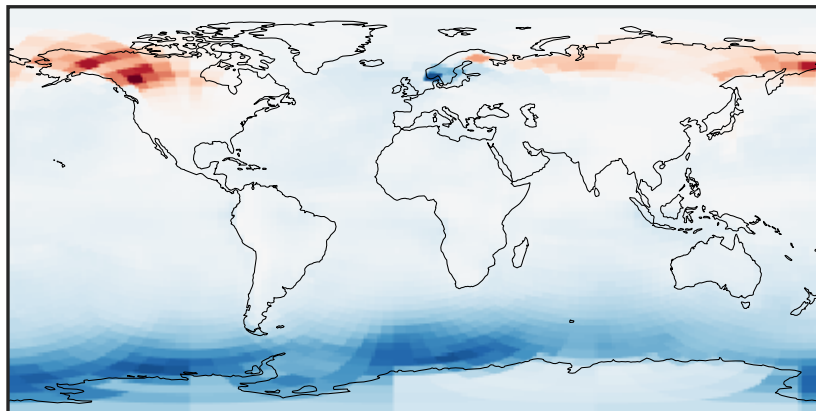
GCHP\_14.0.0 (Ref)  
c24



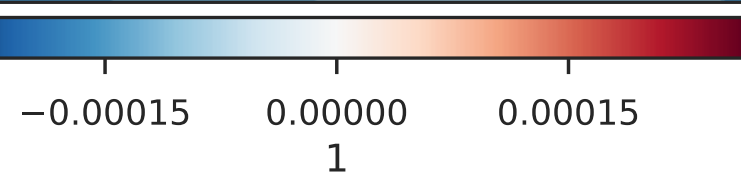
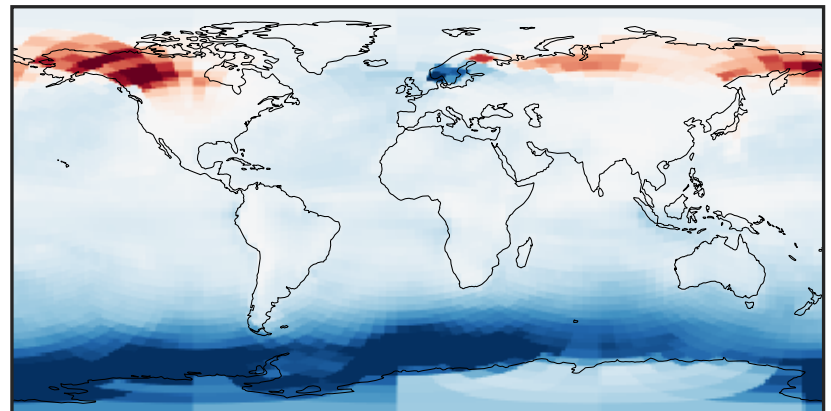
GCHP\_14.2.0 (Dev)  
c24



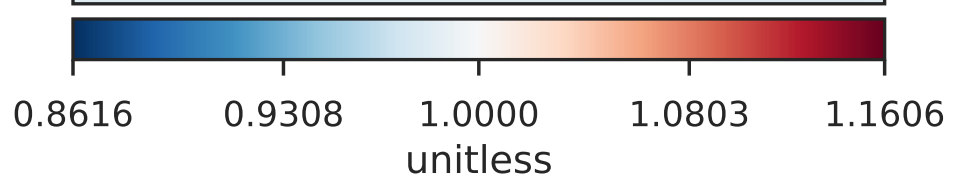
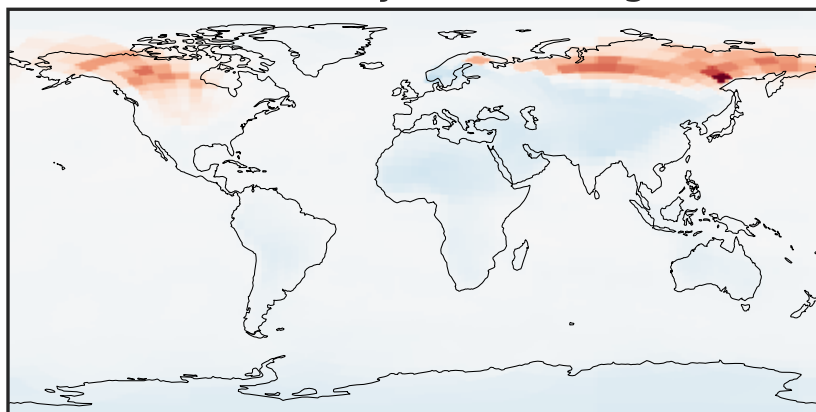
Difference (1x1.25)  
Dev - Ref, Dynamic Range



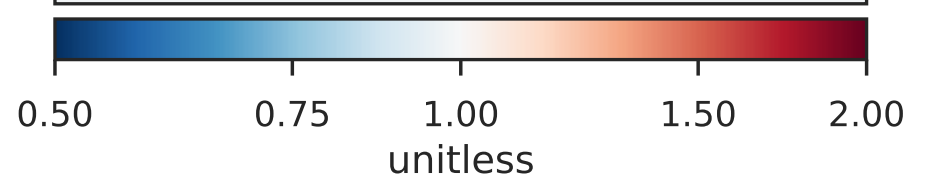
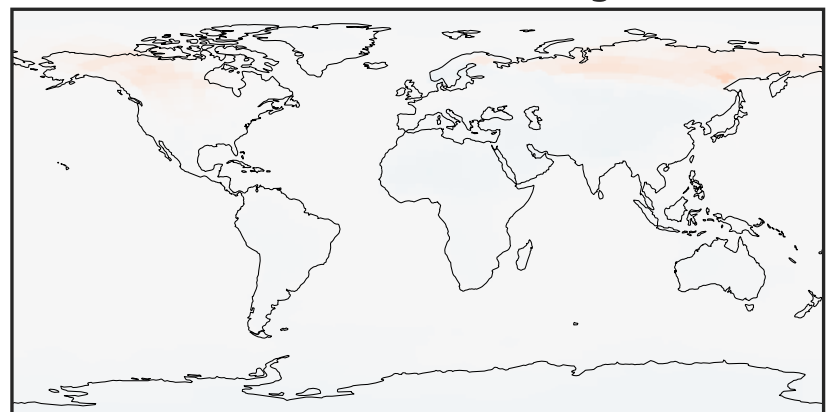
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

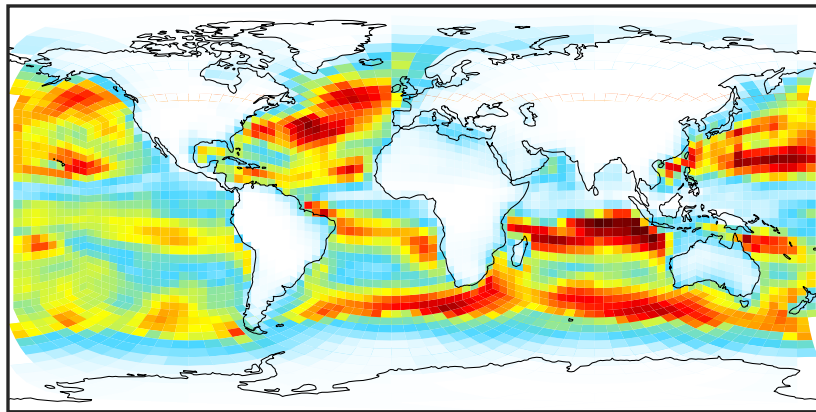


Ratio (1x1.25)  
Dev/Ref, Fixed Range



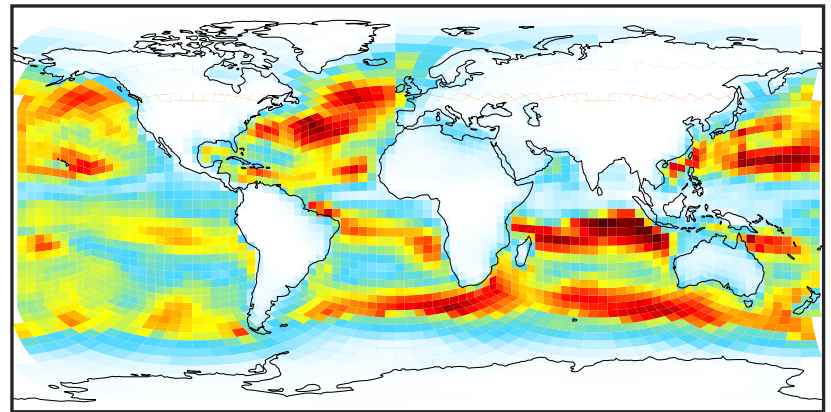
# Column\_AOD\_SALC (Oct2019)

GCHP\_14.0.0 (Ref)  
c24



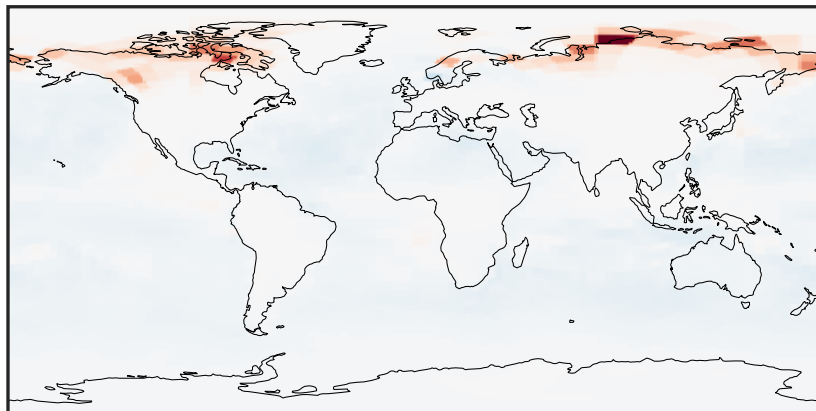
0.025 0.050 0.075  
1

GCHP\_14.2.0 (Dev)  
c24



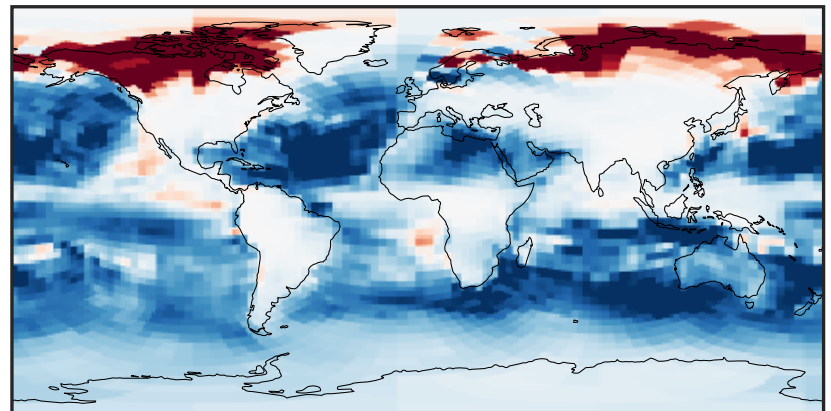
0.025 0.050 0.075  
1

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



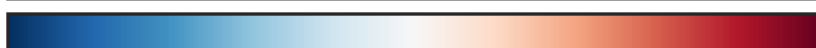
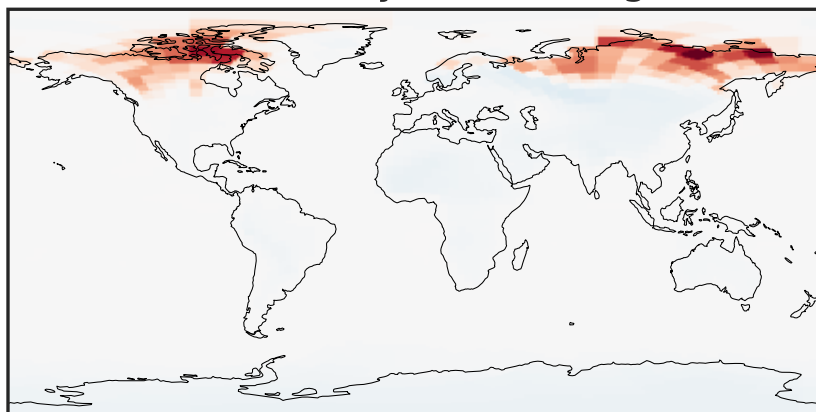
-0.0003 0.0000 0.0003  
1

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



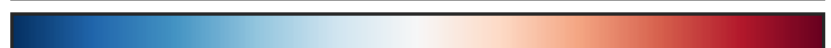
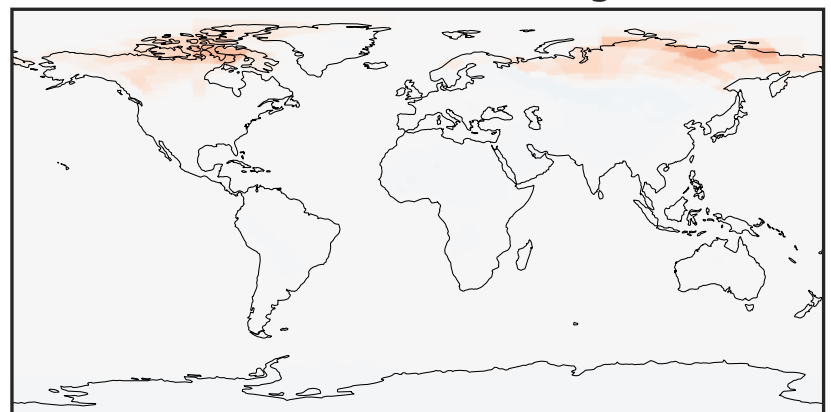
-2.5 0.0 2.5  
1 1e-5

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



0.7699 0.8849 1.0000 1.1495 1.2989  
unitless

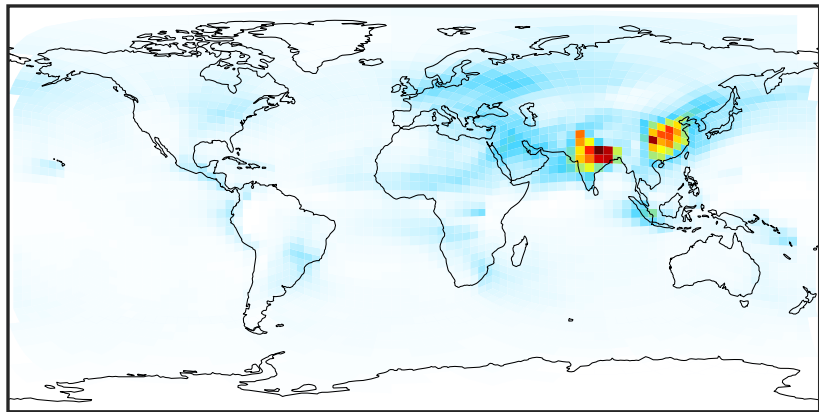
Ratio (1x1.25)  
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00  
unitless

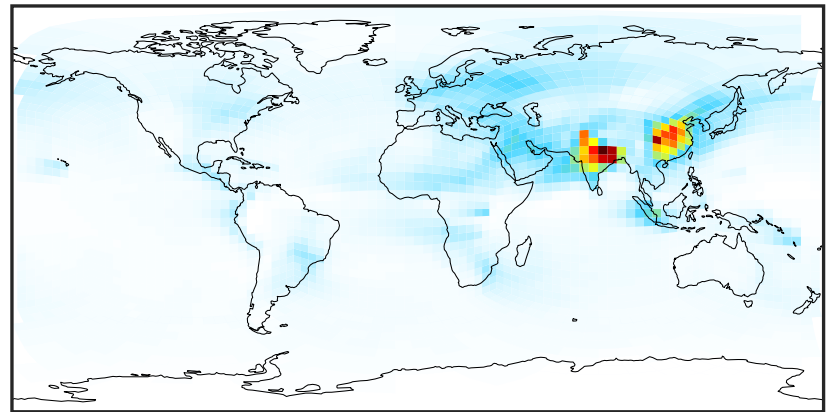
# Column\_AOD\_SO4 (Oct2019)

GCHP\_14.0.0 (Ref)  
c24



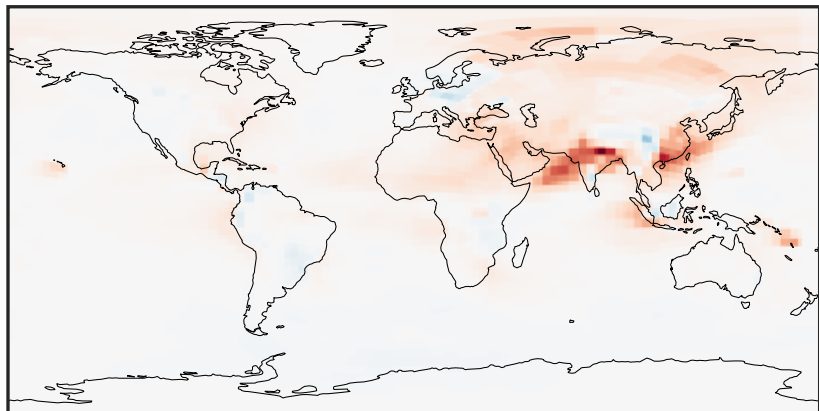
0.0015 0.1749 0.3497 0.5246 0.7010  
1

GCHP\_14.2.0 (Dev)  
c24



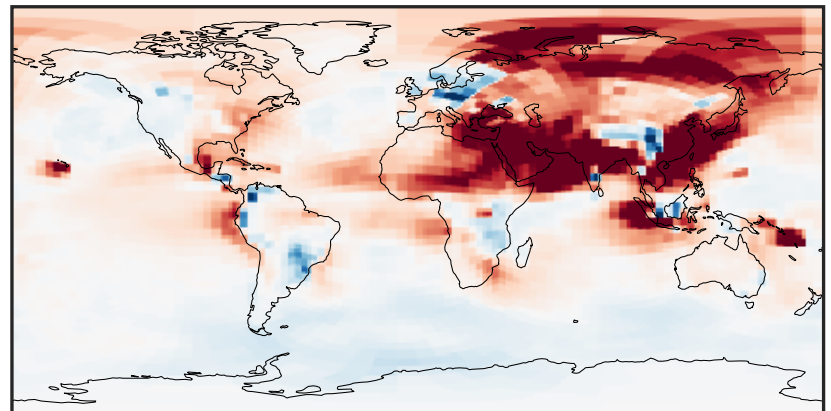
0.0015 0.1749 0.3497 0.5246 0.7010  
1

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



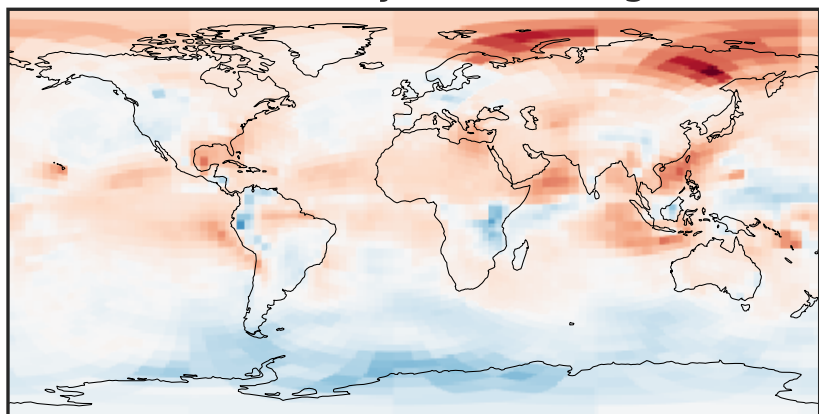
-0.01 0.00 0.01  
1

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



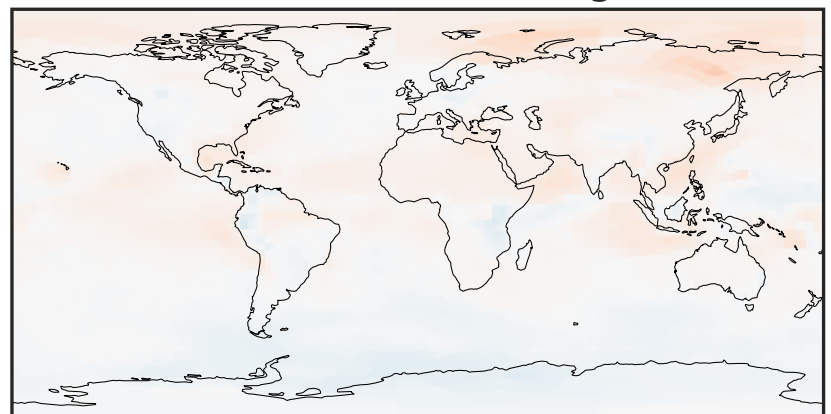
-0.002 0.000 0.002  
1

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



0.8411 0.9206 1.0000 1.0944 1.1889  
unitless

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

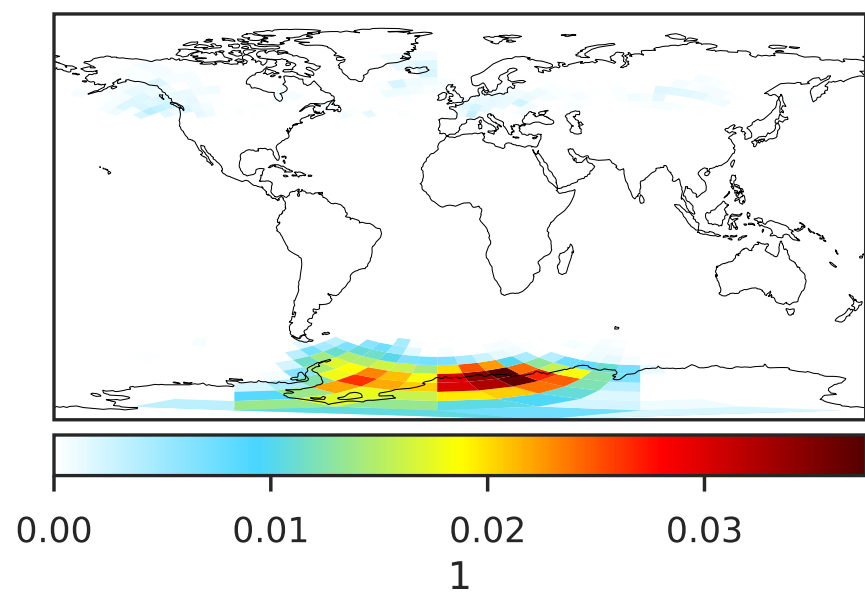


0.50 0.75 1.00 1.50 2.00  
unitless

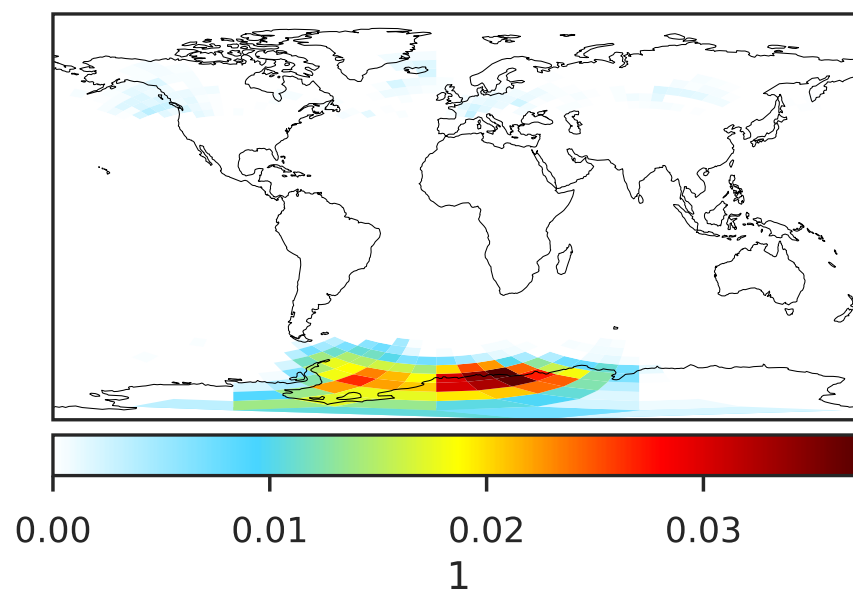


# Column\_AOD\_Polar\_Strat\_Cloud (Oct2019)

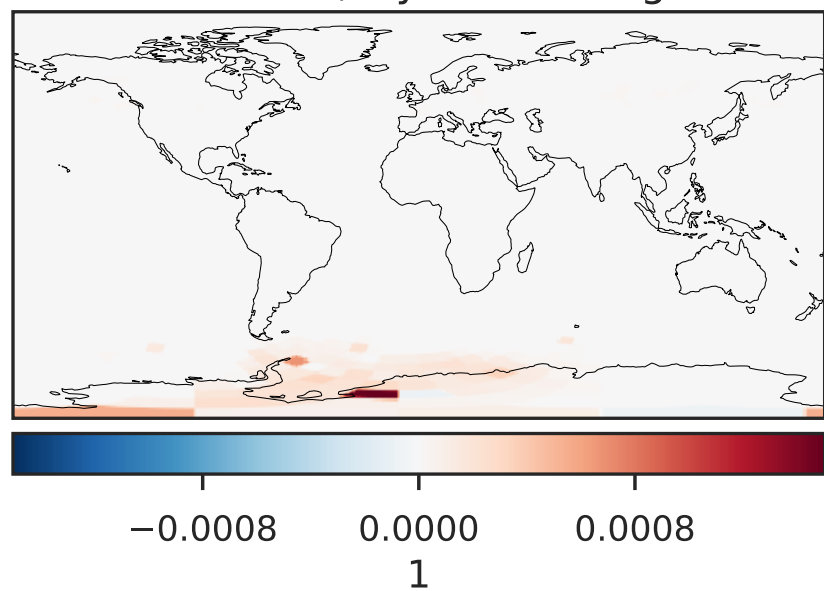
GCHP\_14.0.0 (Ref)  
c24



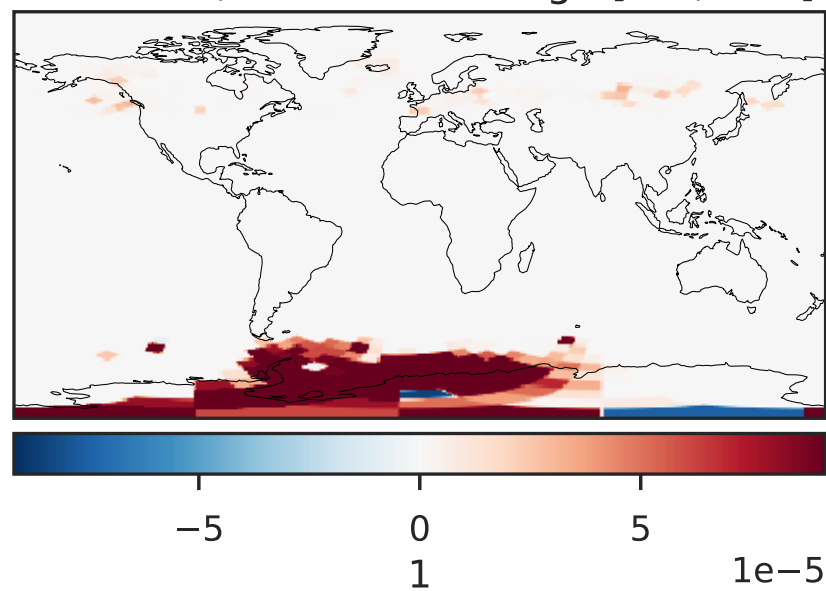
GCHP\_14.2.0 (Dev)  
c24



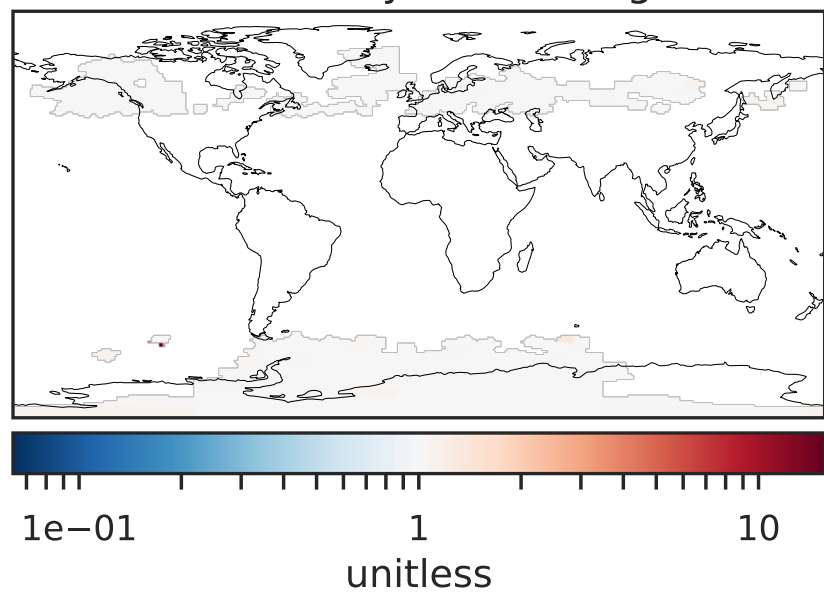
Difference (1x1.25)  
Dev - Ref, Dynamic Range



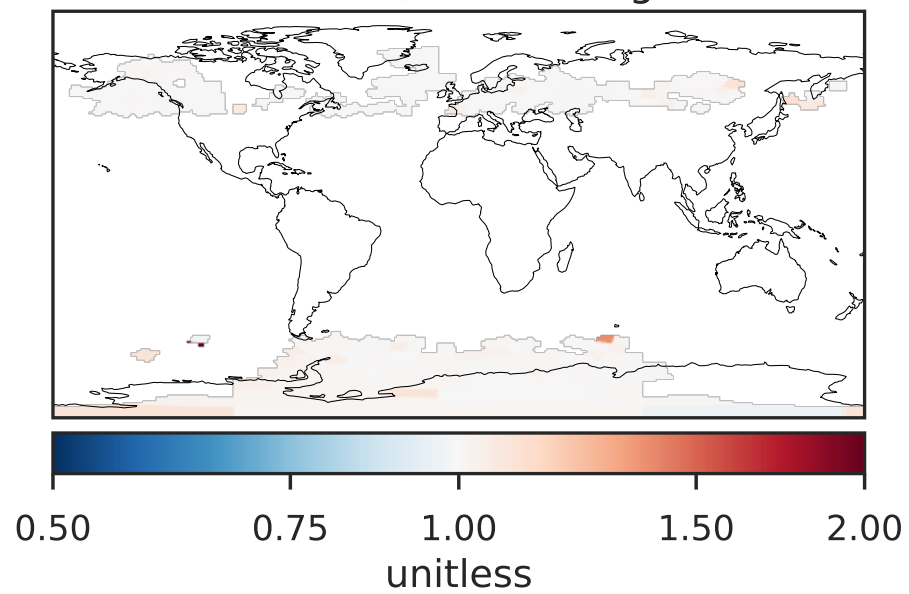
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

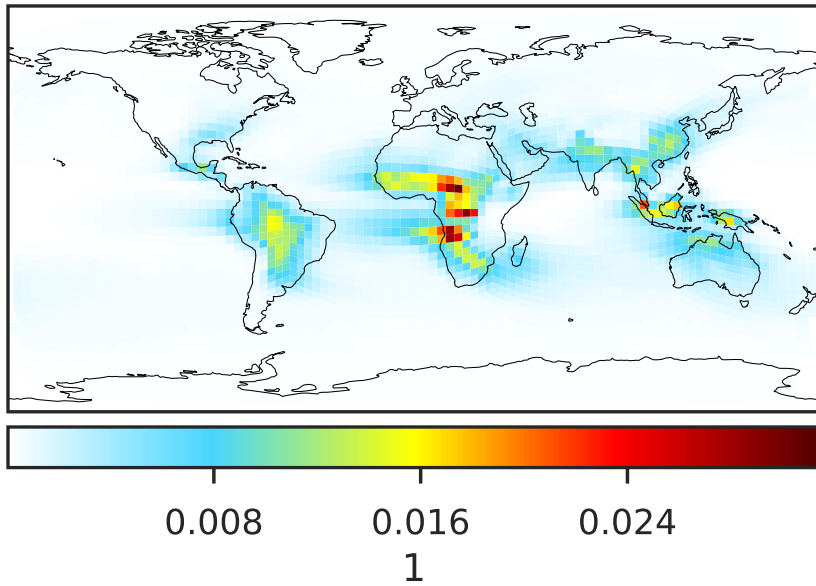


Ratio (1x1.25)  
Dev/Ref, Fixed Range

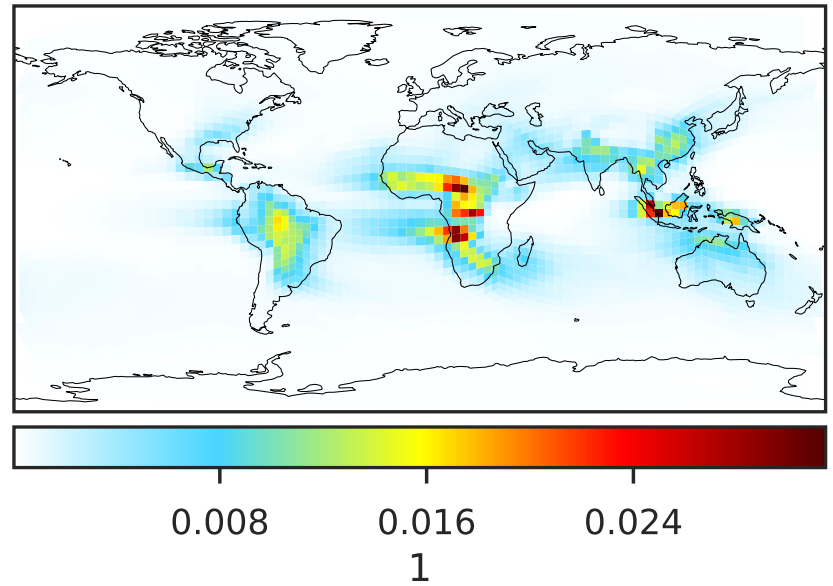


# Column\_AOD\_SOA\_from\_Aqueous\_ISOP (Oct2019)

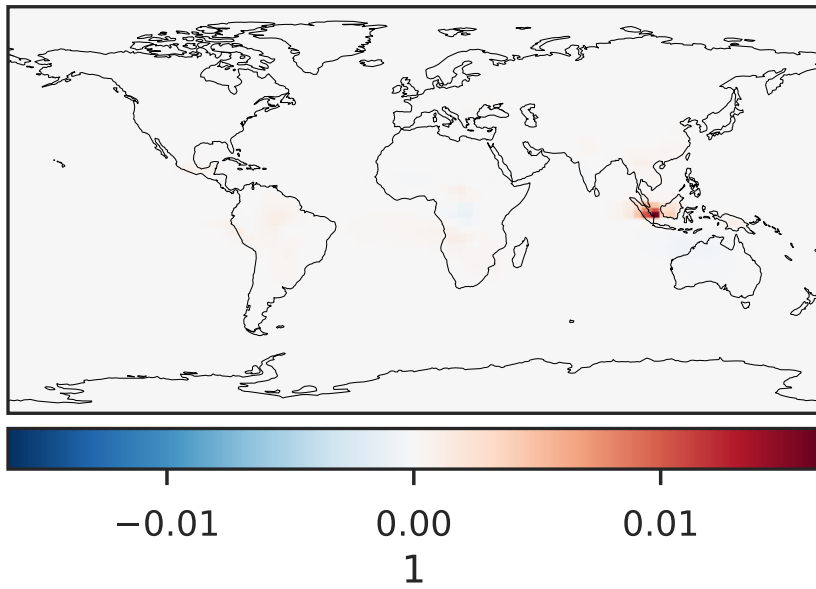
GCHP\_14.0.0 (Ref)  
c24



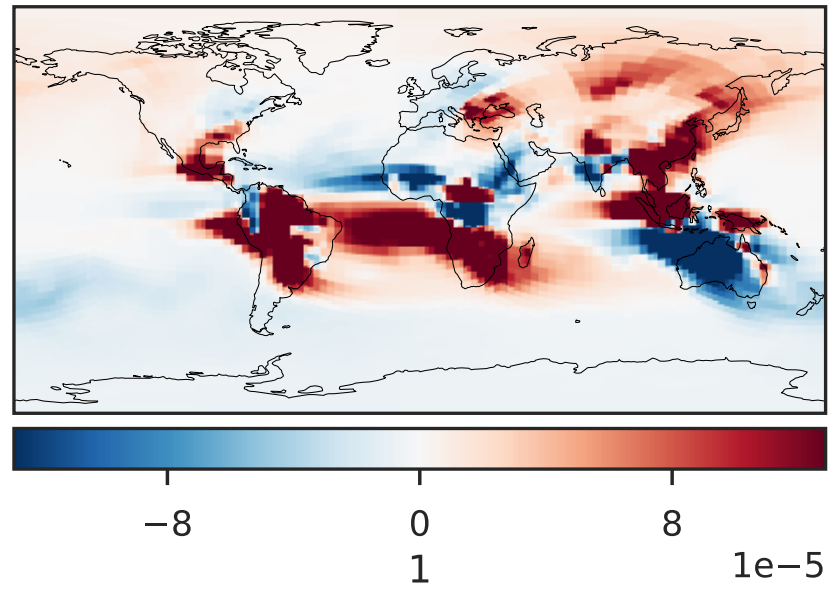
GCHP\_14.2.0 (Dev)  
c24



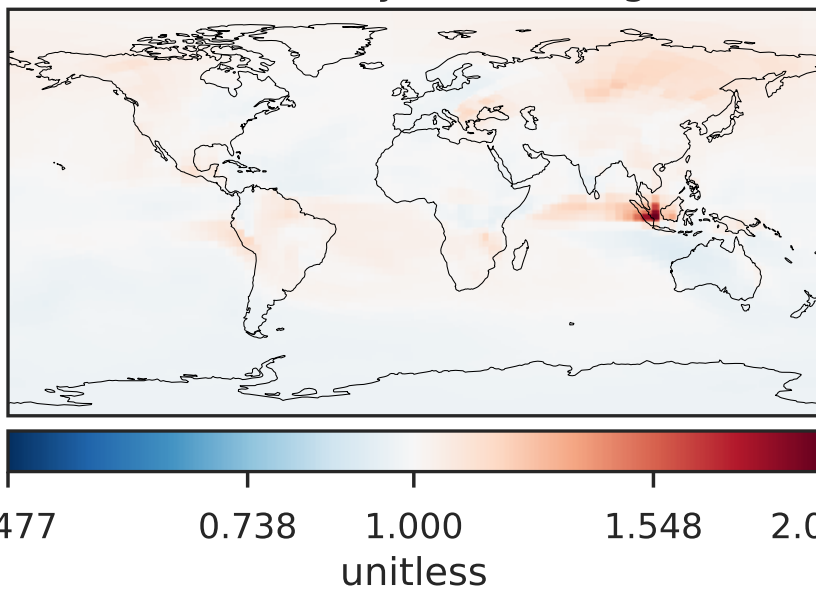
Difference (1x1.25)  
Dev - Ref, Dynamic Range



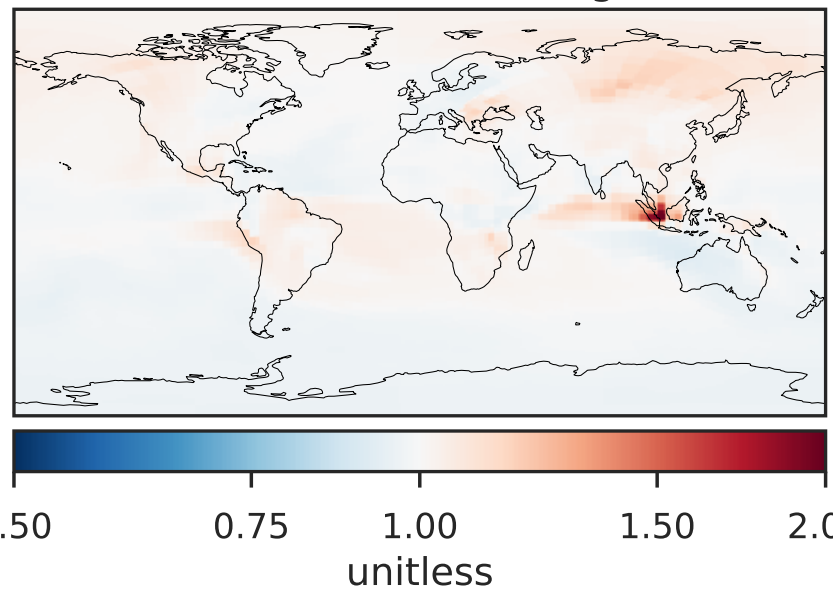
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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



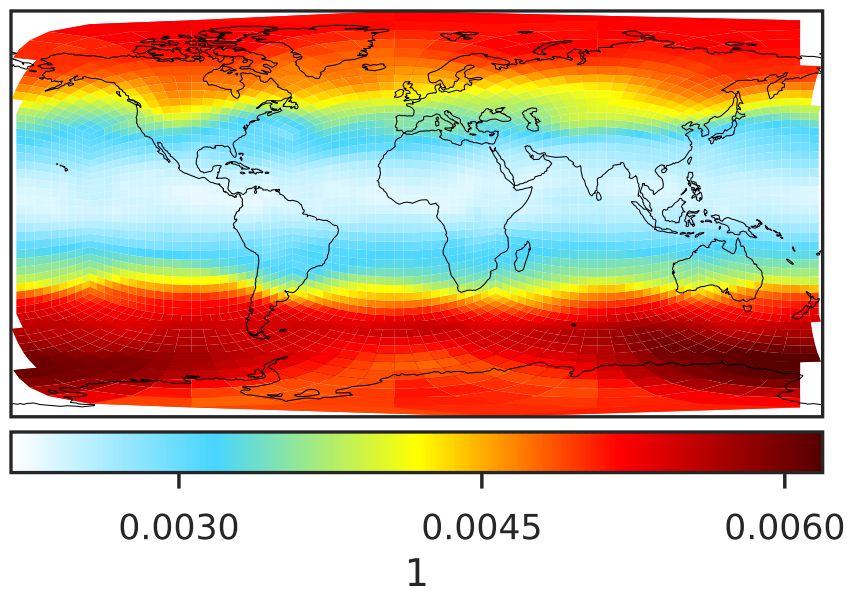
Ratio (1x1.25)  
Dev/Ref, Fixed Range



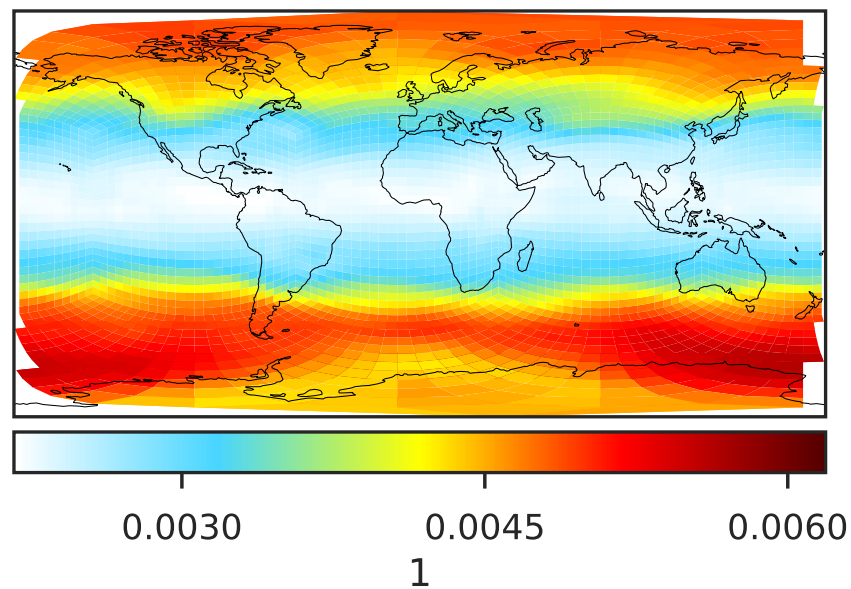


# Column\_AOD\_Strat\_Liquid\_Aerosol (Oct2019)

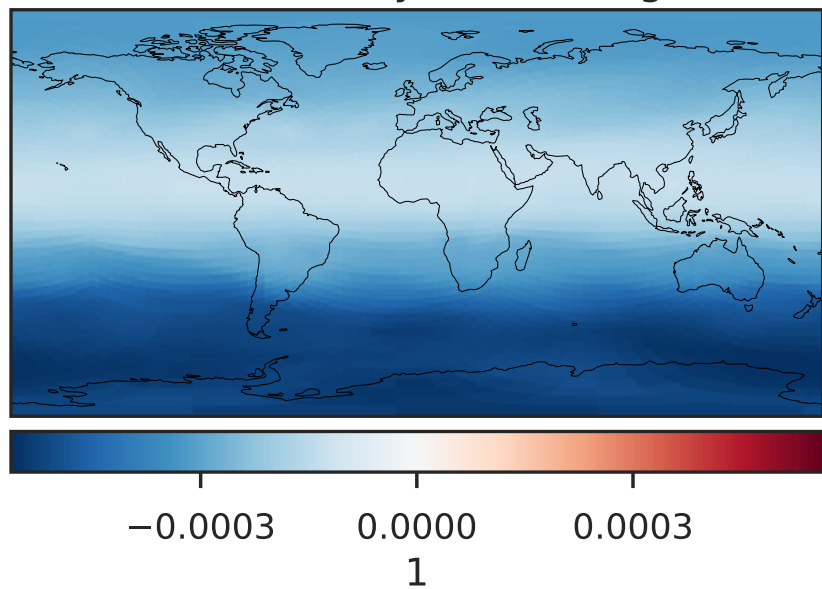
GCHP\_14.0.0 (Ref)  
c24



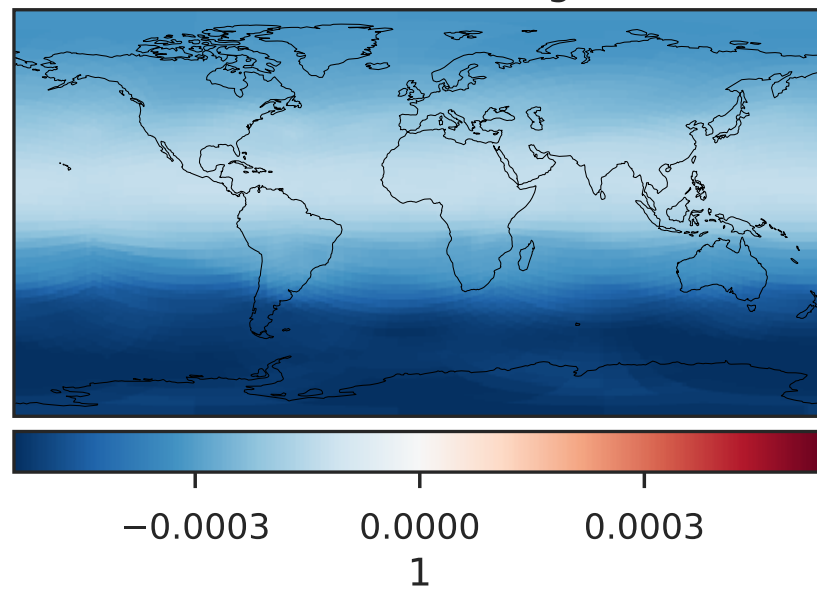
GCHP\_14.2.0 (Dev)  
c24



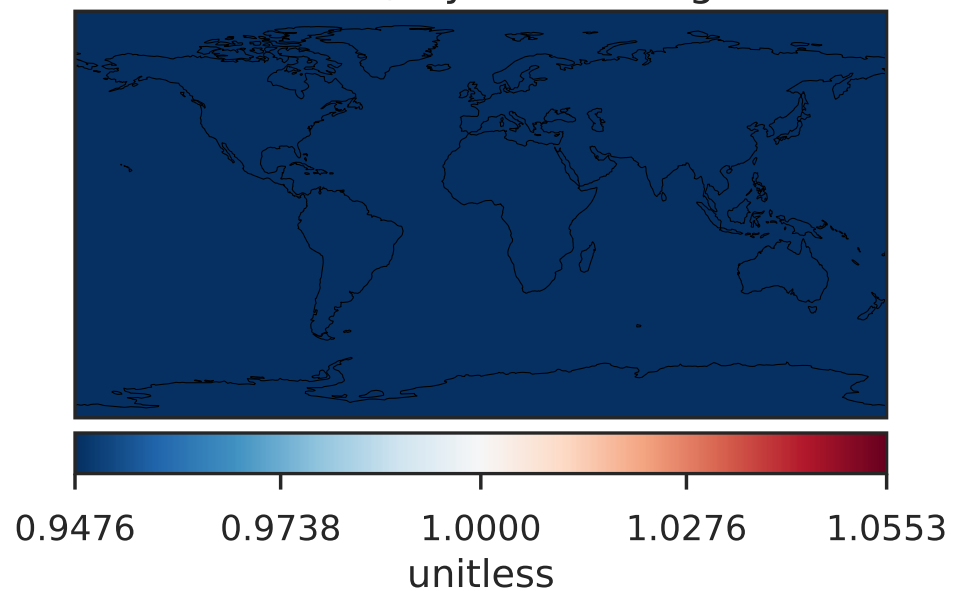
Difference (1x1.25)  
Dev - Ref, Dynamic Range



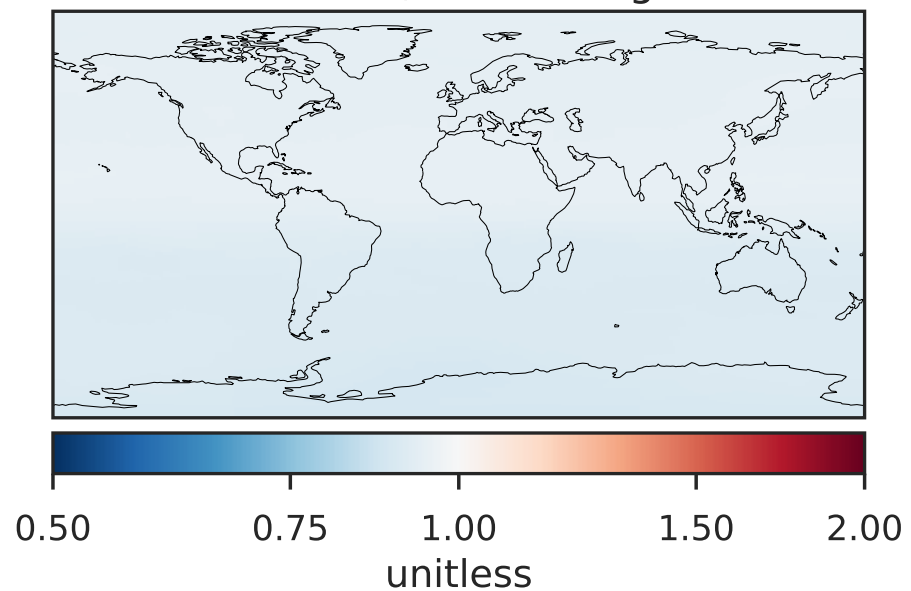
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

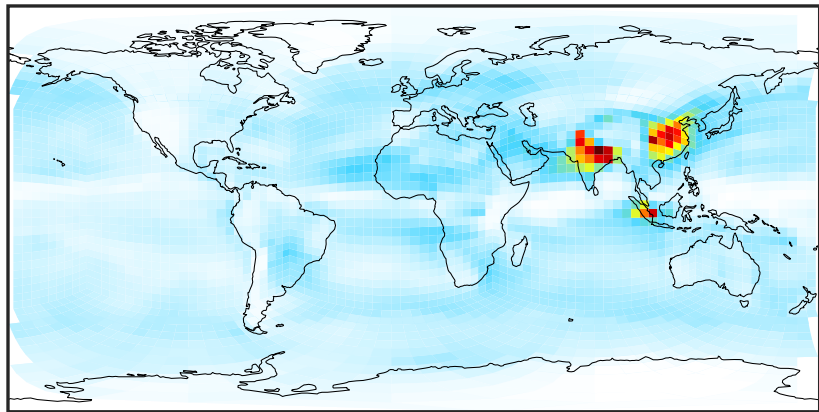


Ratio (1x1.25)  
Dev/Ref, Fixed Range



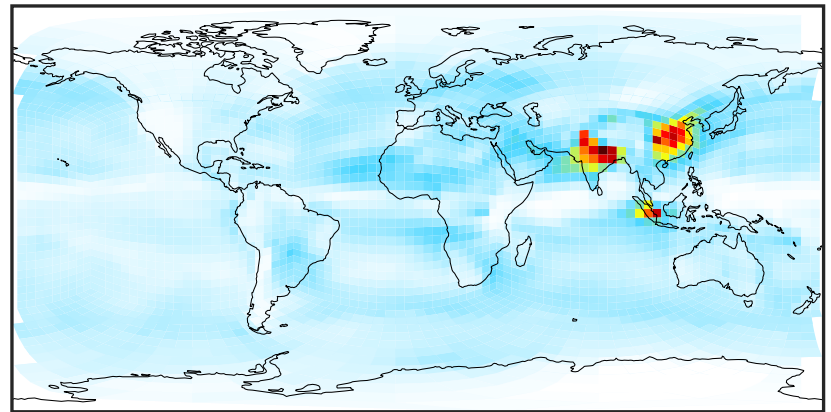
# Column\_AOD\_Total (Oct2019)

GCHP\_14.0.0 (Ref)  
c24



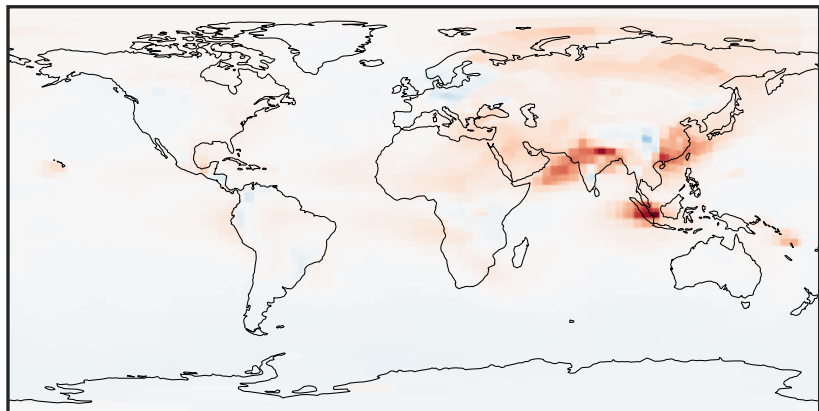
0.0124 0.2369 0.4739 0.7108 0.9602  
1

GCHP\_14.2.0 (Dev)  
c24



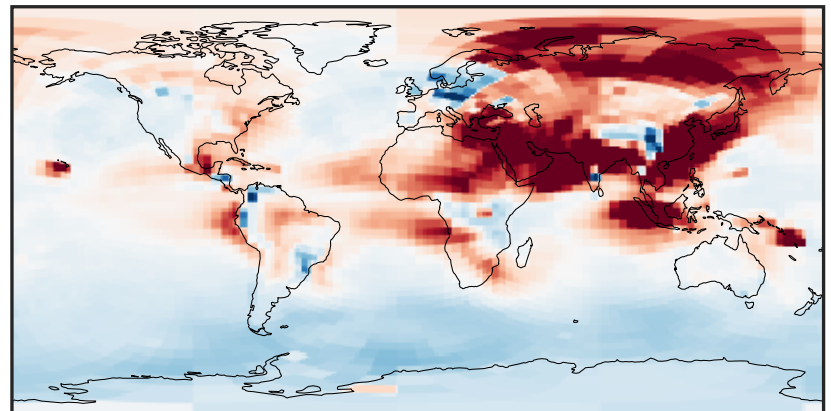
0.0124 0.2369 0.4739 0.7108 0.9602  
1

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



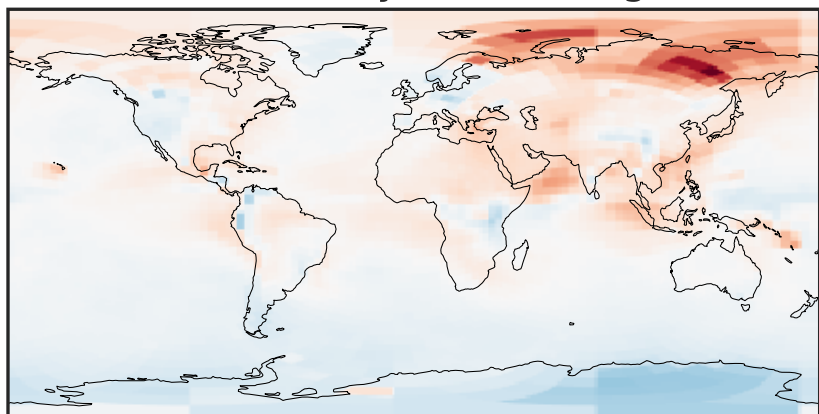
-0.015 0.000 0.015  
1

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



-0.002 0.000 0.002  
1

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



0.8841 0.9420 1.0000 1.0656 1.1311  
unitless

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



0.50 0.75 1.00 1.50 2.00  
unitless