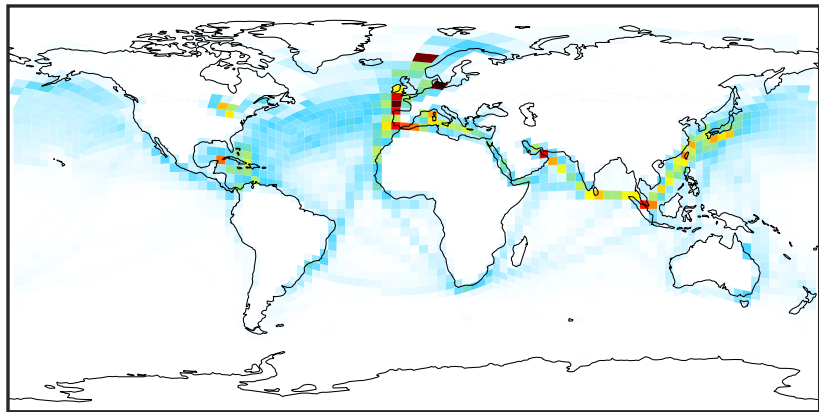


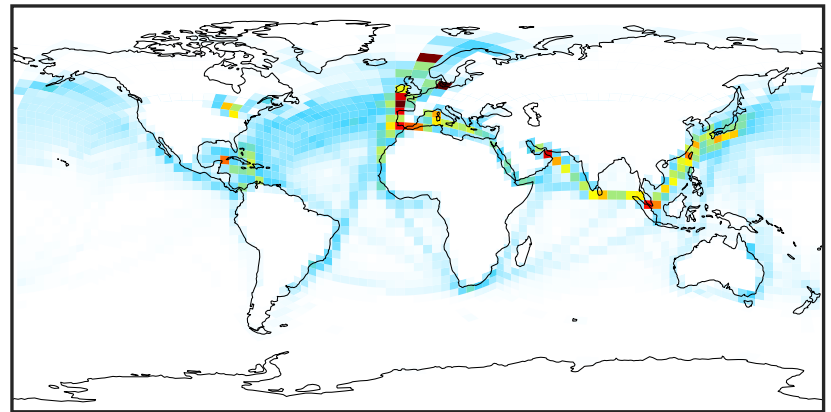
# EmisHNO3\_Ship (Apr2019)

14.2.0-rc.2 (Ref)  
c24



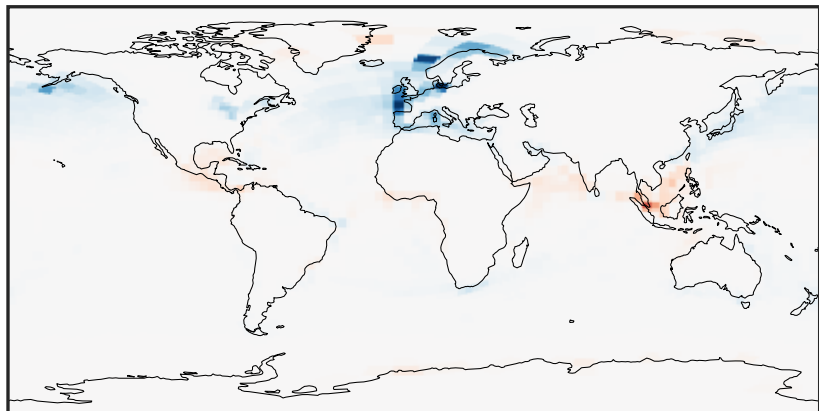
0.0 0.6 1.2 1.8  
kg/m<sup>2</sup>/s 1e-11

14.3.0-rc.0 (Dev)  
c24



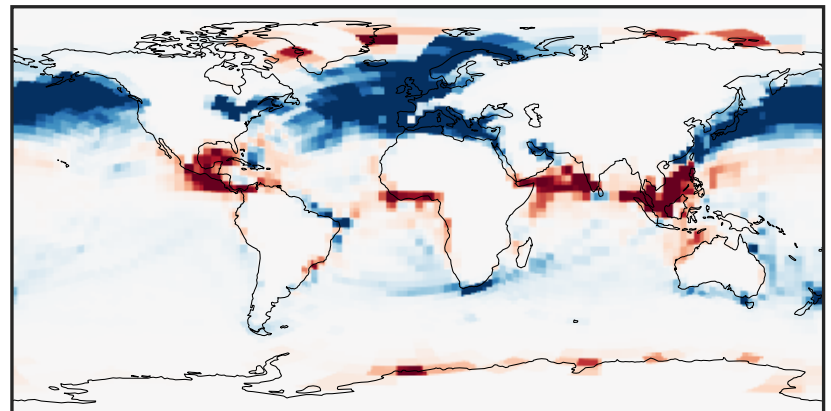
0.0 0.6 1.2 1.8  
kg/m<sup>2</sup>/s 1e-11

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



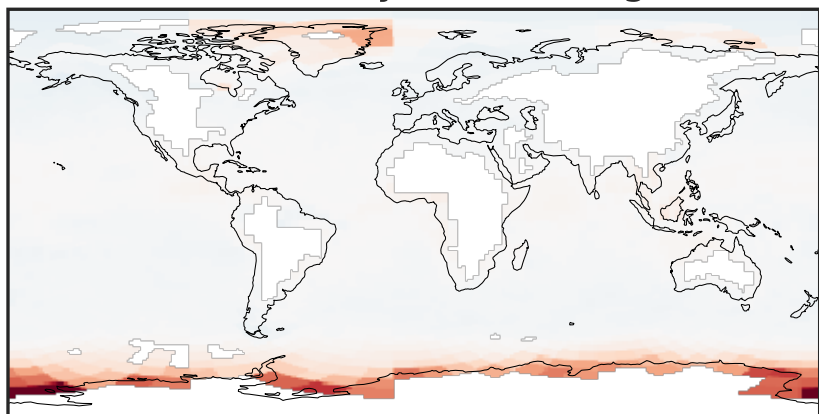
-8 0 8  
kg/m<sup>2</sup>/s 1e-14

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



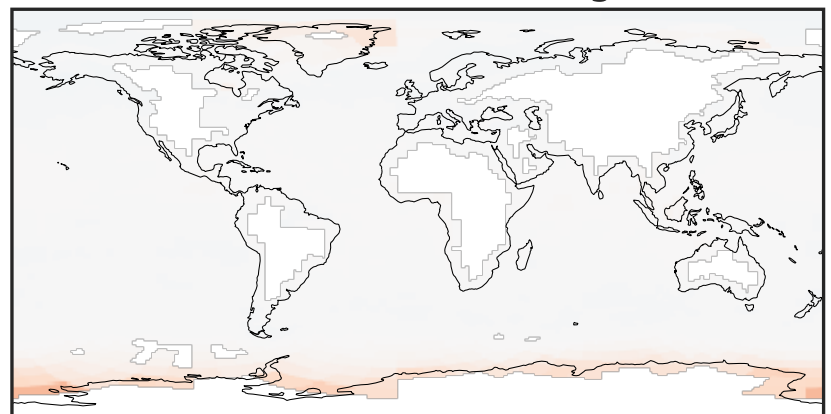
-6 0 6  
kg/m<sup>2</sup>/s 1e-15

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



0.8002 0.9001 1.0000 1.1249 1.2497  
unitless

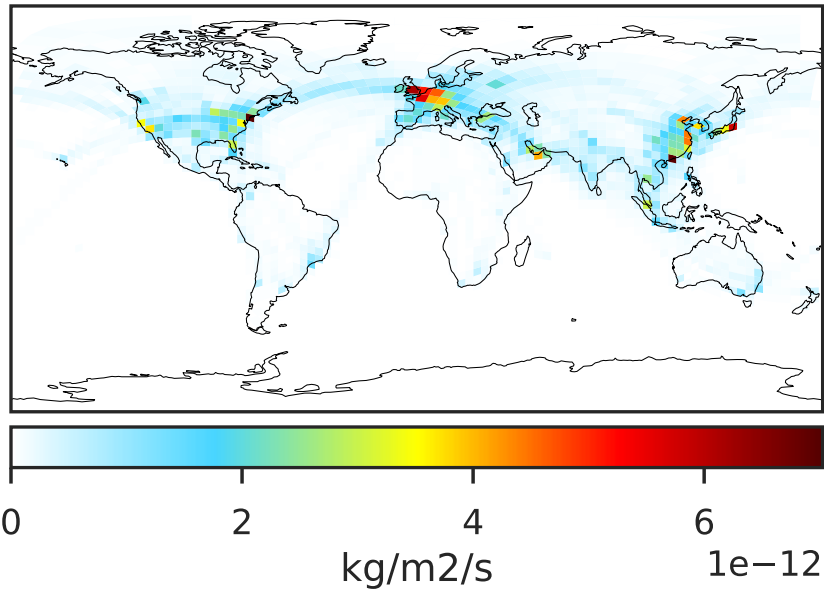
Ratio (1x1.25)  
Dev/Ref, Fixed Range



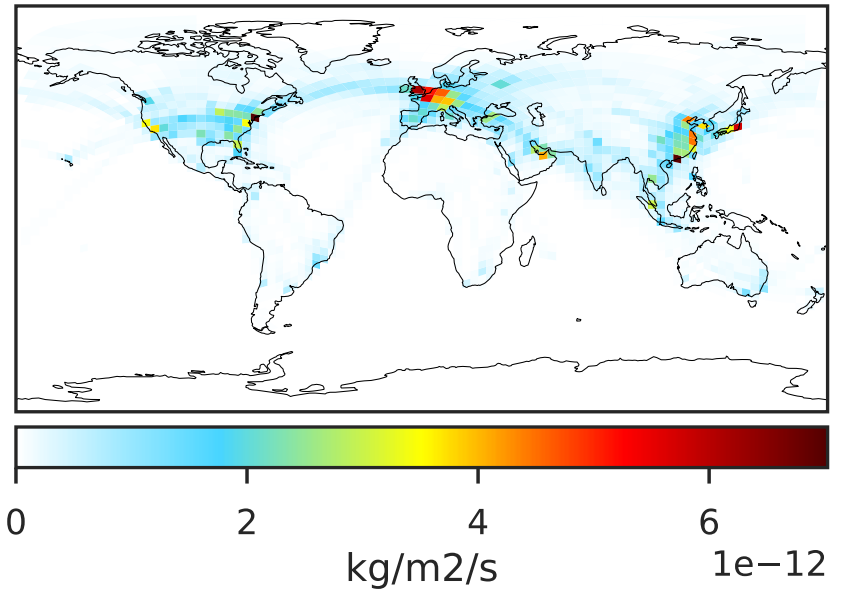
0.50 0.75 1.00 1.50 2.00  
unitless

# EmisNO\_Aircraft (Apr2019)

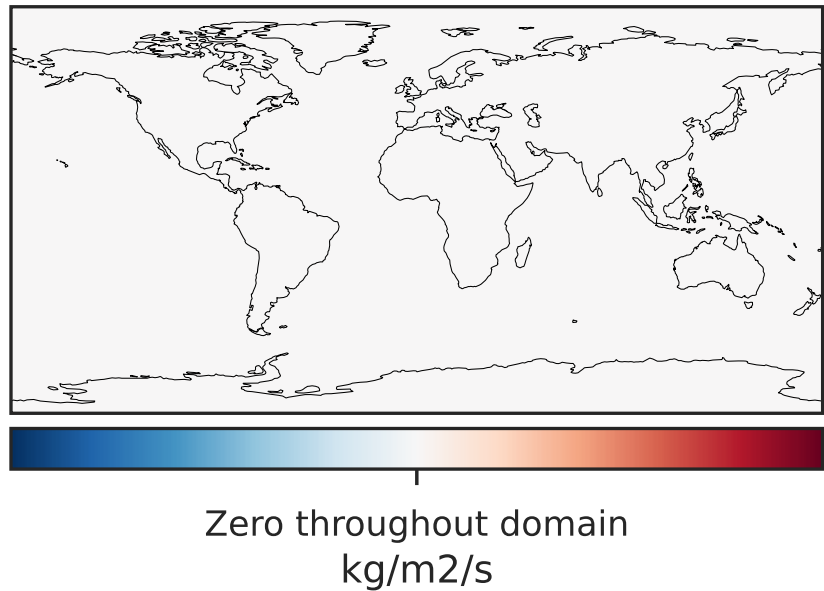
14.2.0-rc.2 (Ref)  
c24



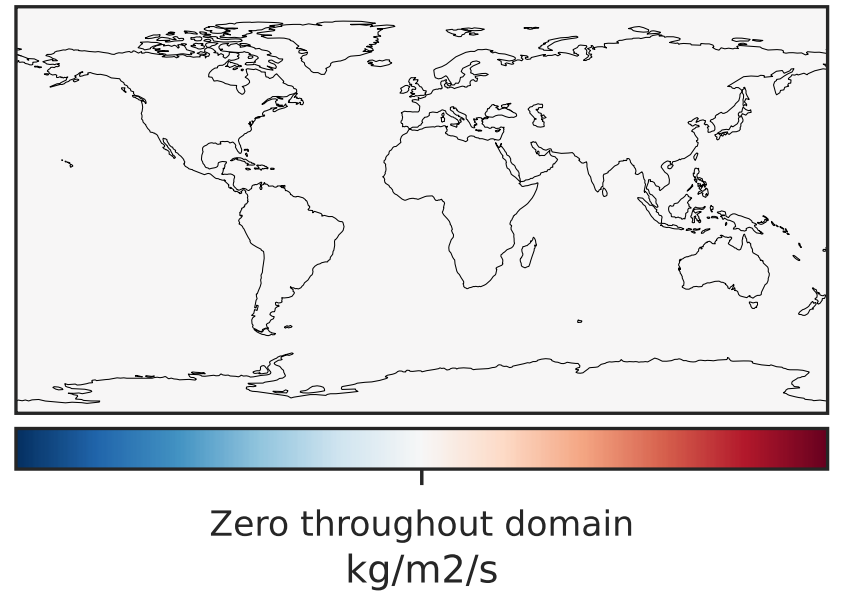
14.3.0-rc.0 (Dev)  
c24



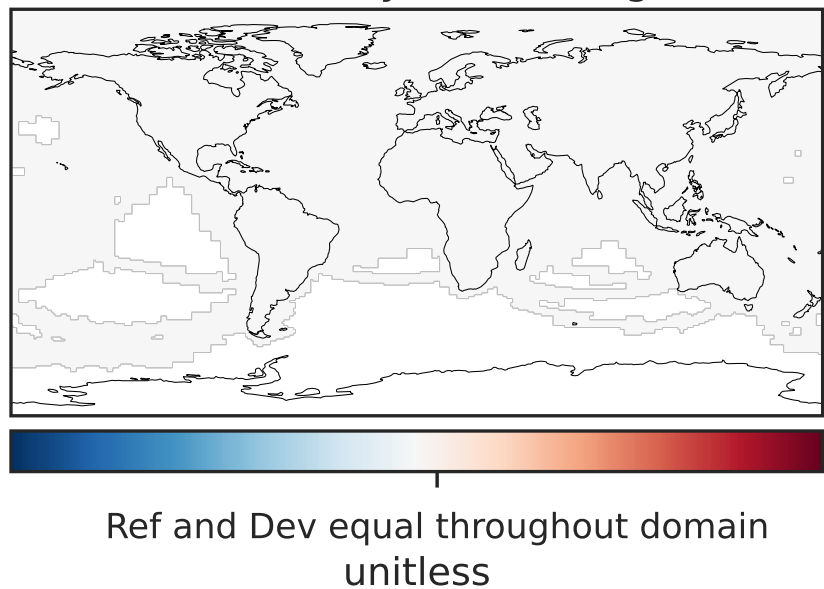
Difference (1x1.25)  
Dev - Ref, Dynamic Range



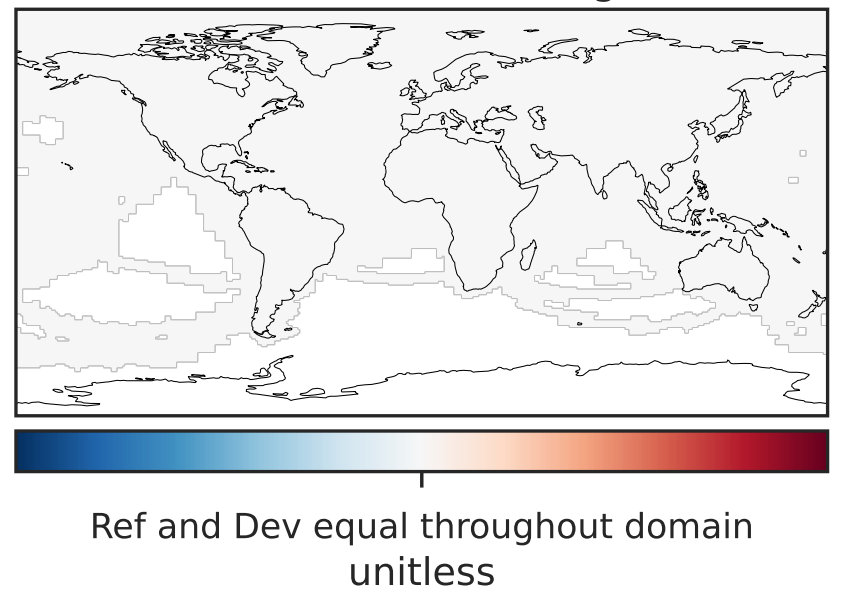
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

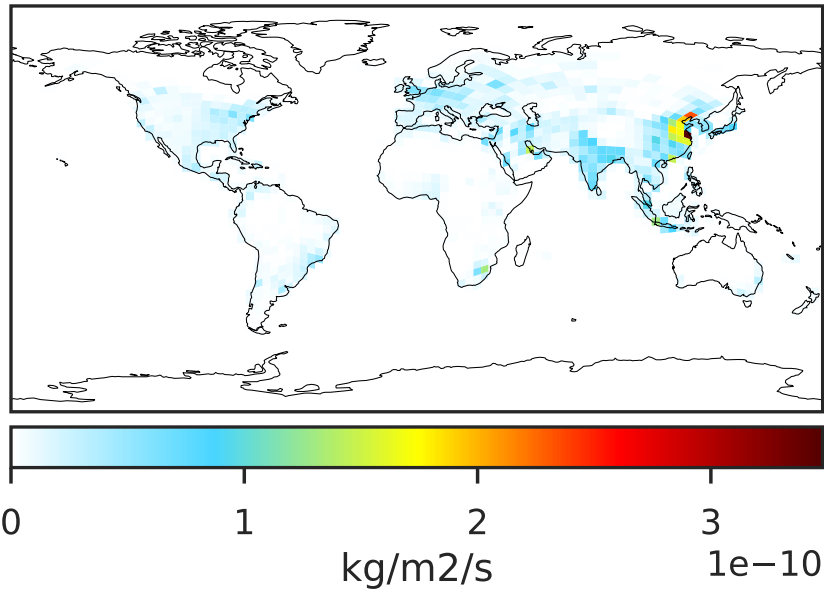


Ratio (1x1.25)  
Dev/Ref, Fixed Range

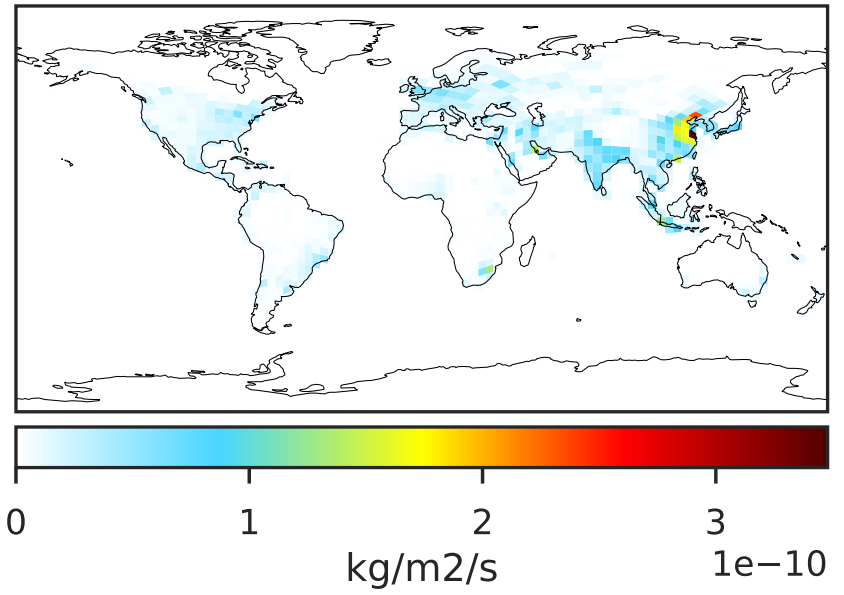


# EmisNO\_Anthro (Apr2019)

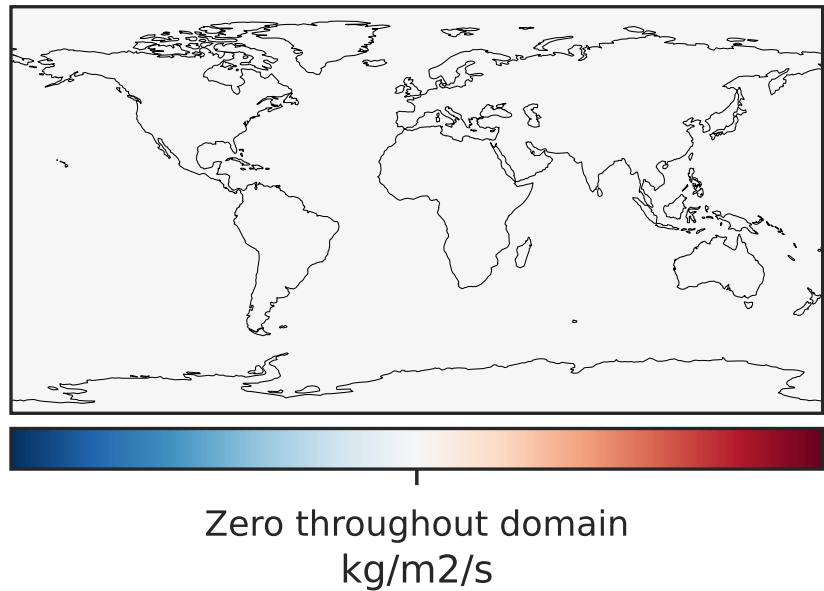
14.2.0-rc.2 (Ref)  
c24



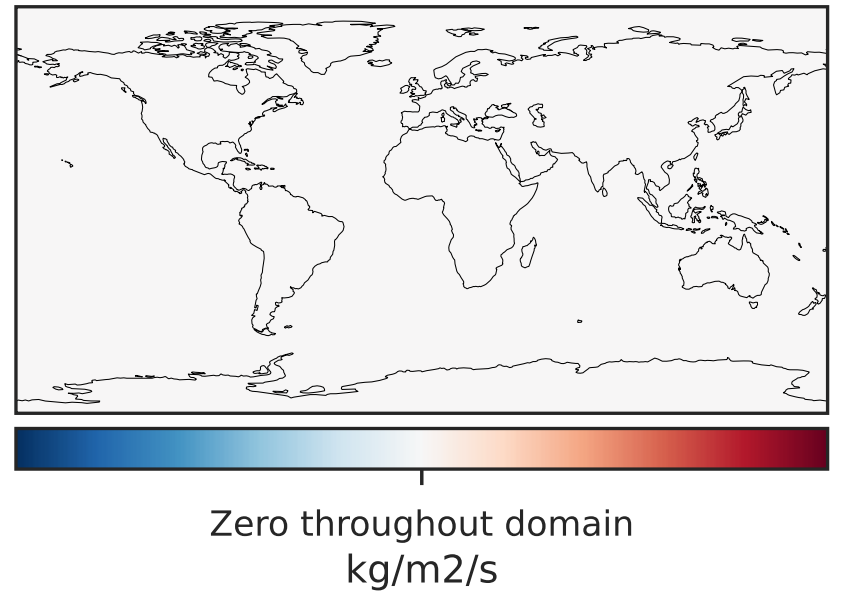
14.3.0-rc.0 (Dev)  
c24



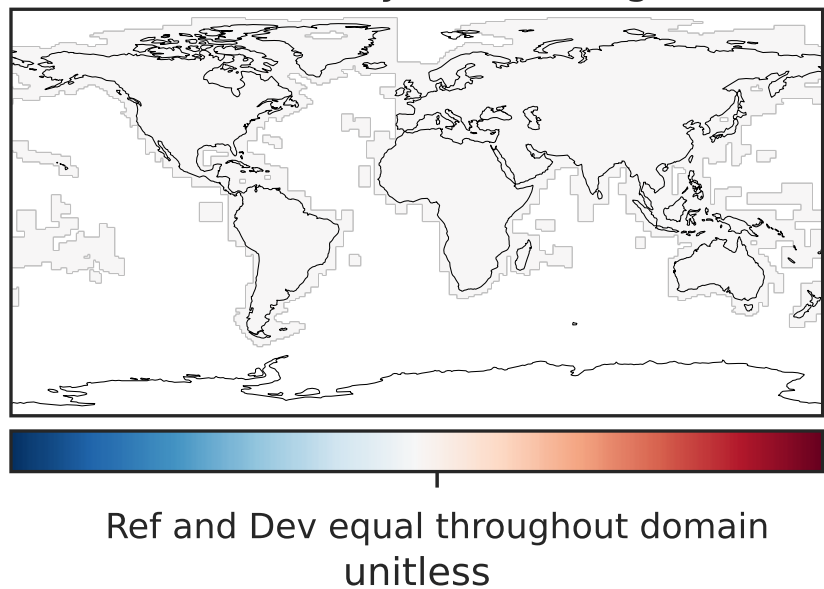
Difference (1x1.25)  
Dev - Ref, Dynamic Range



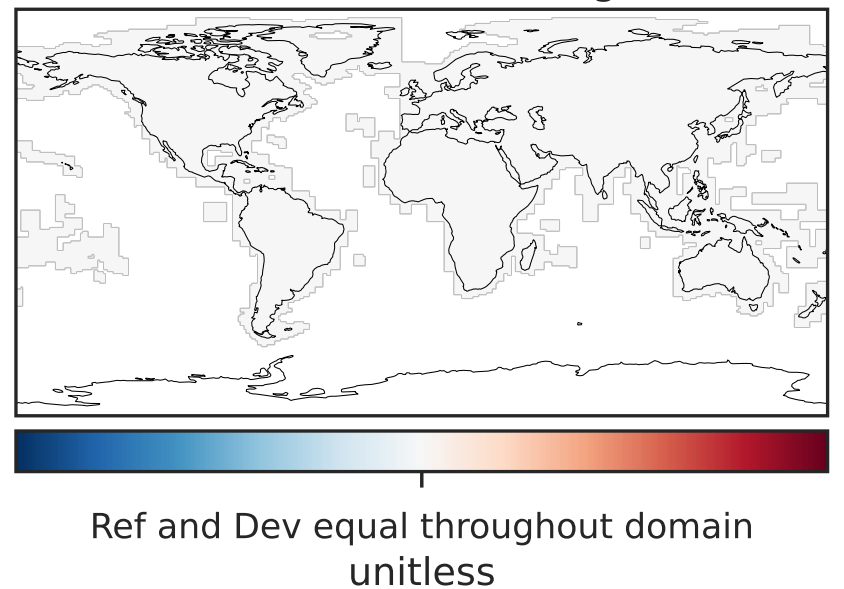
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

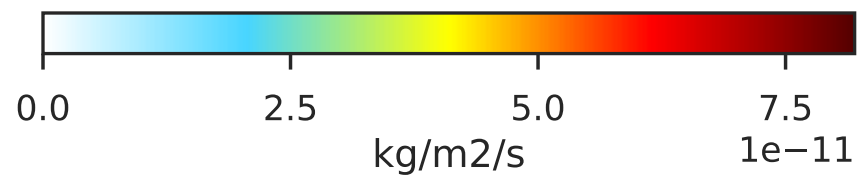
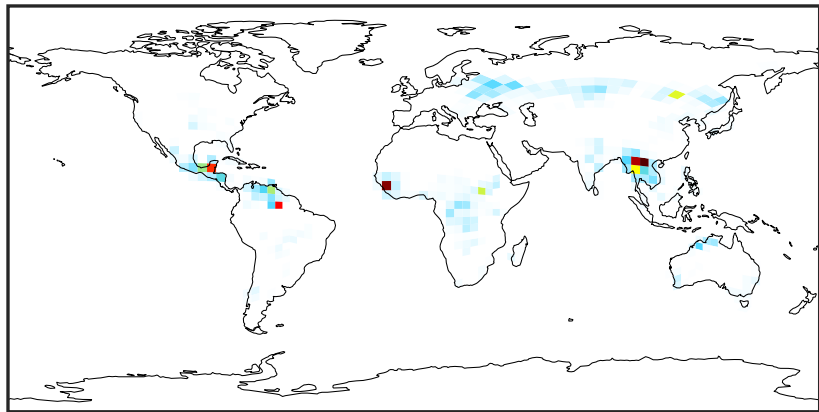


Ratio (1x1.25)  
Dev/Ref, Fixed Range

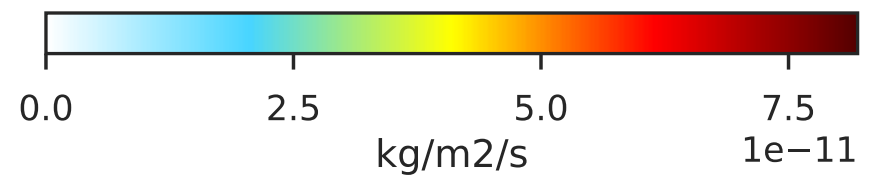
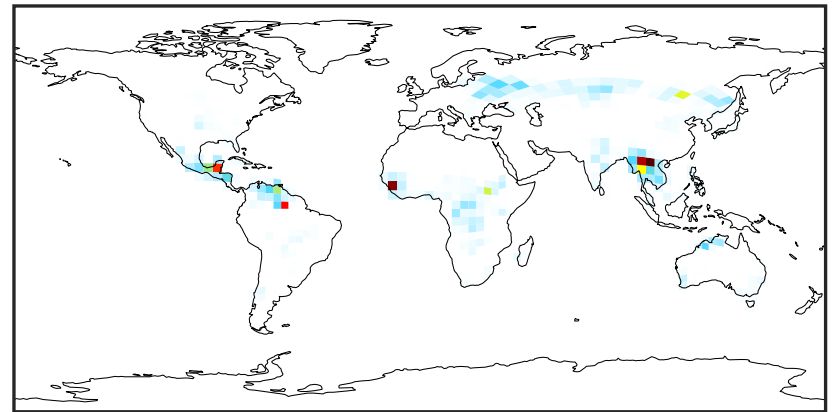


# EmisNO\_BioBurn (Apr2019)

14.2.0-rc.2 (Ref)  
c24



14.3.0-rc.0 (Dev)  
c24

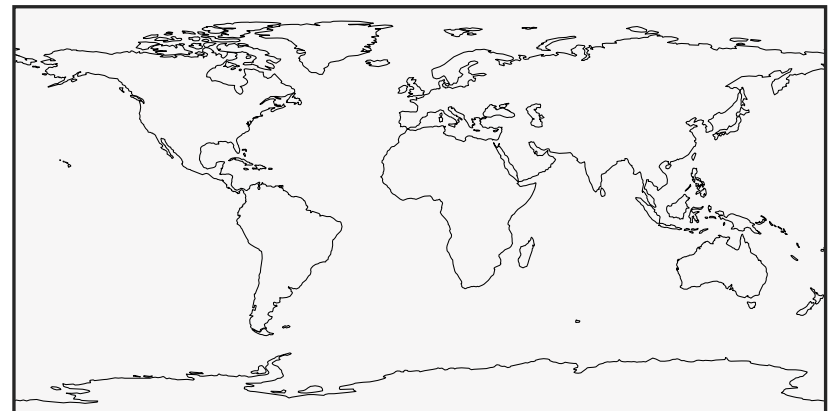


Difference (1x1.25)  
Dev - Ref, Dynamic Range



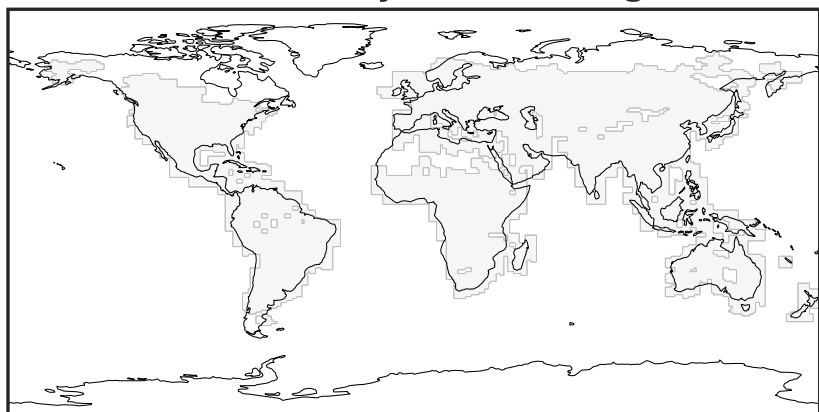
Zero throughout domain  
kg/m2/s

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



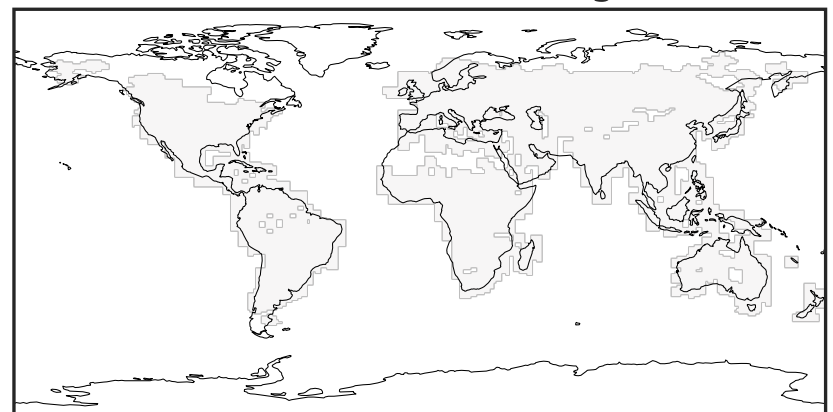
Zero throughout domain  
kg/m2/s

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



Ref and Dev equal throughout domain  
unitless

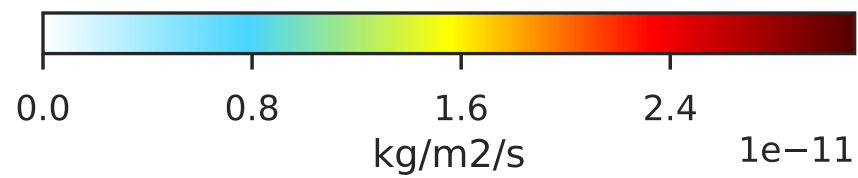
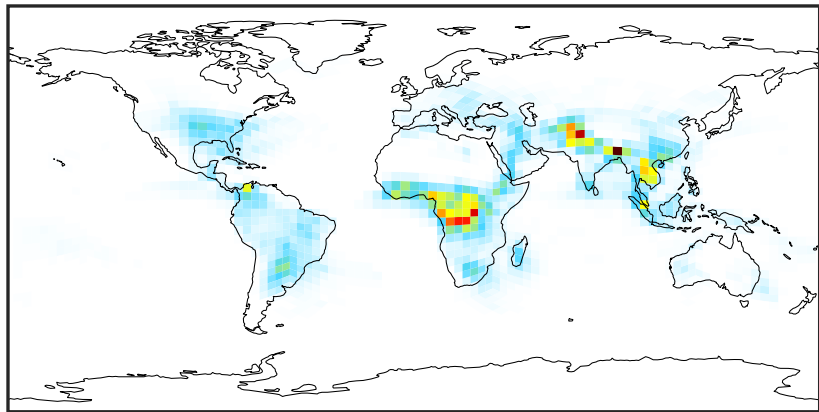
Ratio (1x1.25)  
Dev/Ref, Fixed Range



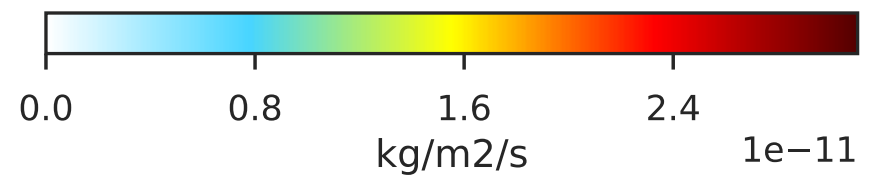
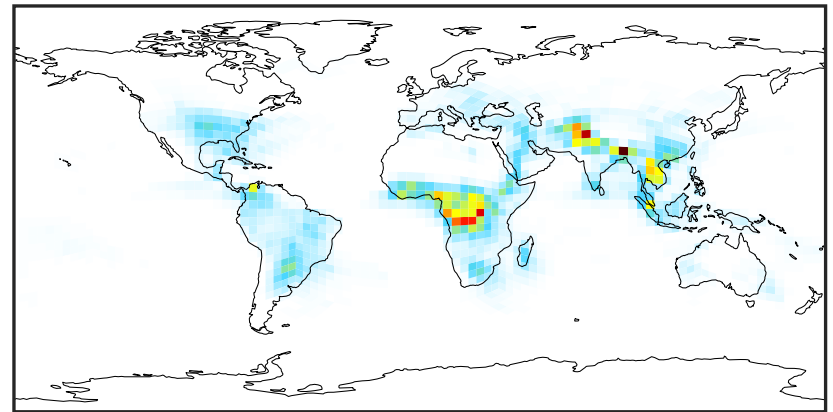
Ref and Dev equal throughout domain  
unitless

# EmisNO\_Lightning (Apr2019)

14.2.0-rc.2 (Ref)  
c24



14.3.0-rc.0 (Dev)  
c24

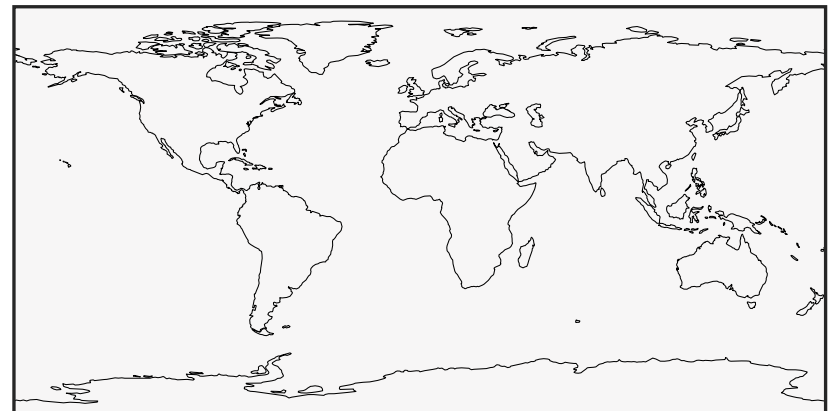


Difference (1x1.25)  
Dev - Ref, Dynamic Range



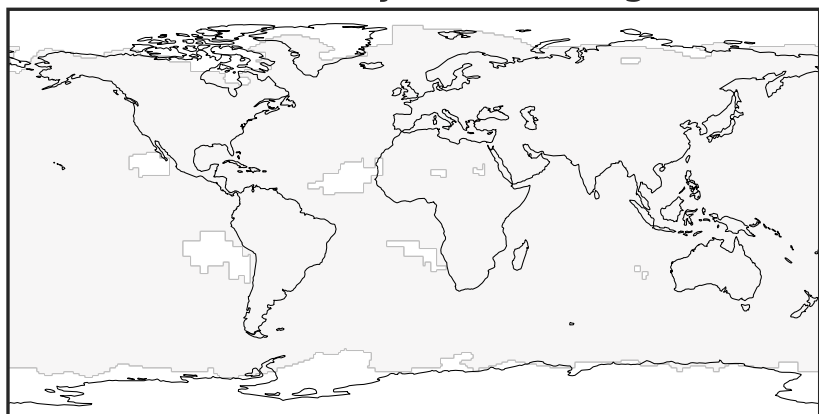
Zero throughout domain  
kg/m2/s

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



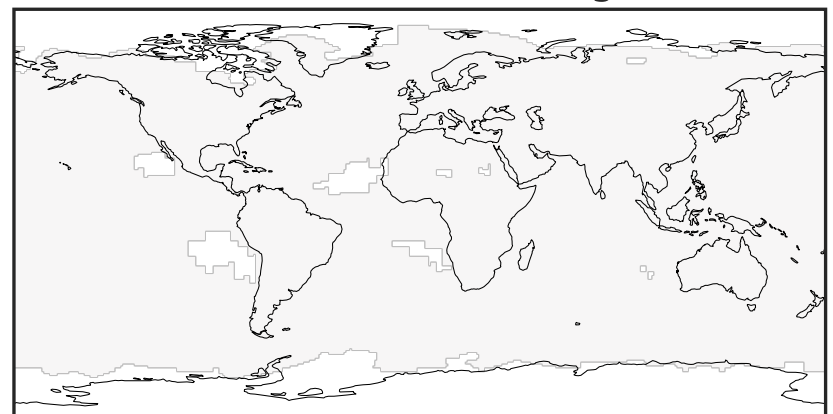
Zero throughout domain  
kg/m2/s

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



Ref and Dev equal throughout domain  
unitless

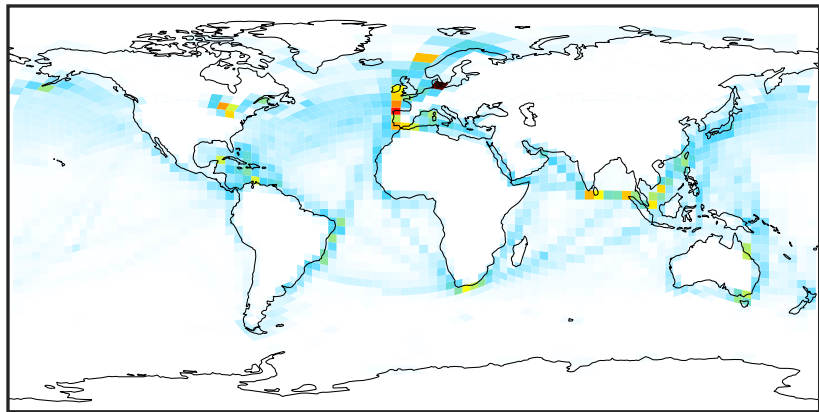
Ratio (1x1.25)  
Dev/Ref, Fixed Range



Ref and Dev equal throughout domain  
unitless

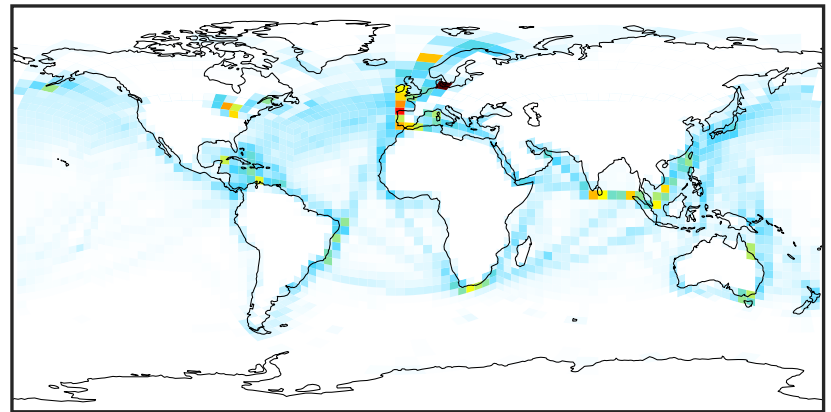
# EmisNO\_Ship (Apr2019)

14.2.0-rc.2 (Ref)  
c24



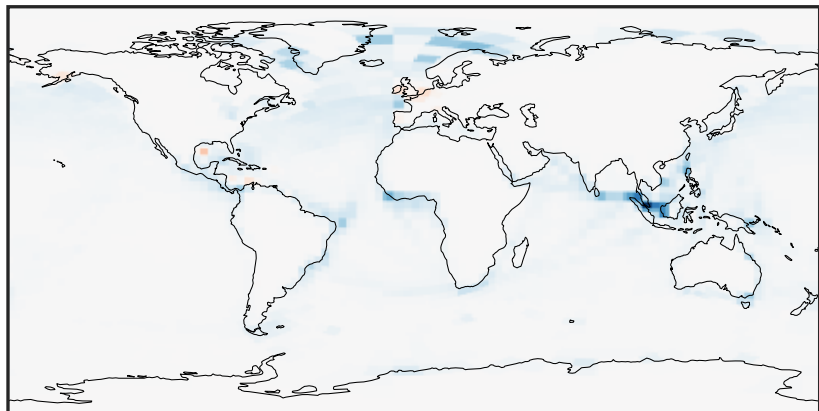
0.0 2.5 5.0 7.5  
kg/m2/s  $1e-13$

14.3.0-rc.0 (Dev)  
c24



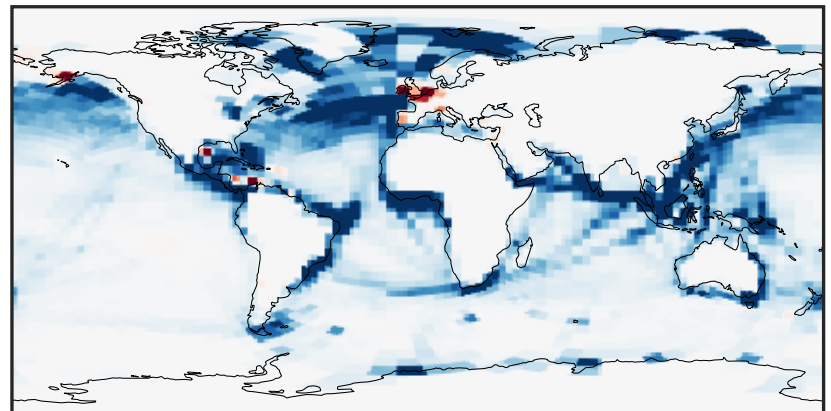
0.0 2.5 5.0 7.5  
kg/m2/s  $1e-13$

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



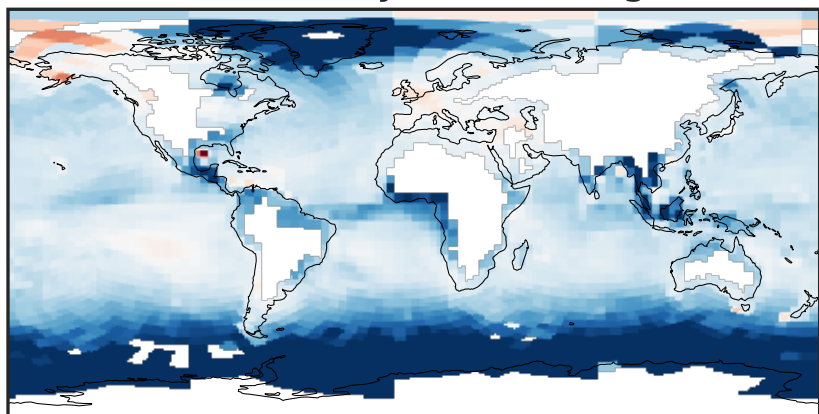
-8 0 8  
kg/m2/s  $1e-15$

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



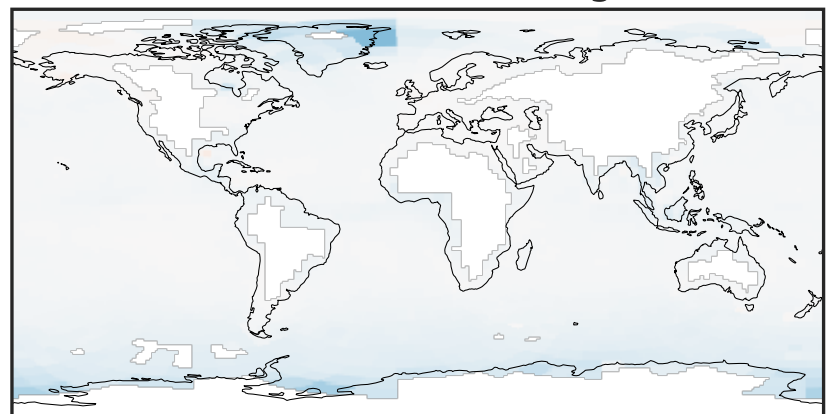
-1 0 1  
kg/m2/s  $1e-15$

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



0.9483 0.9742 1.0000 1.0272 1.0545  
unitless

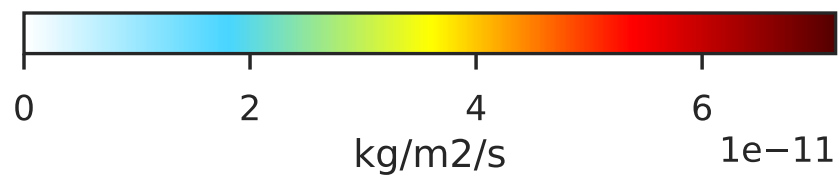
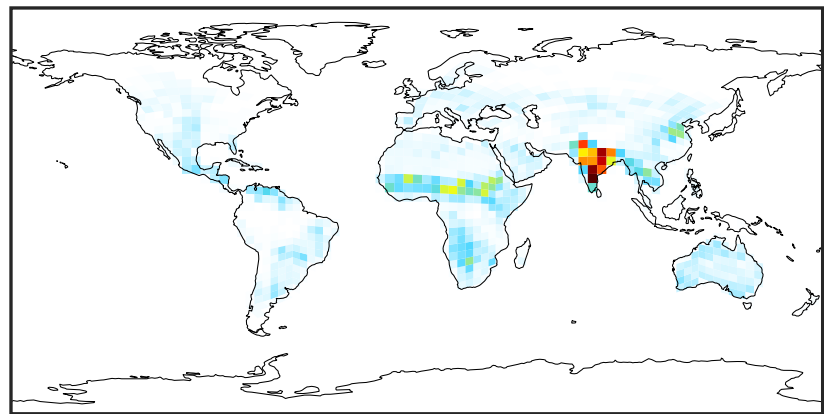
Ratio (1x1.25)  
Dev/Ref, Fixed Range



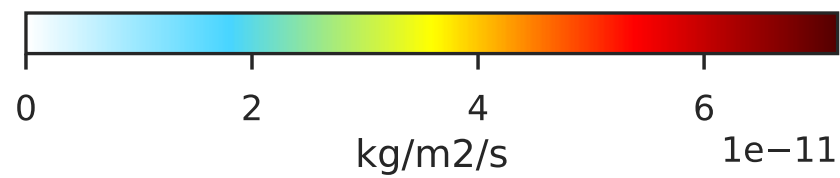
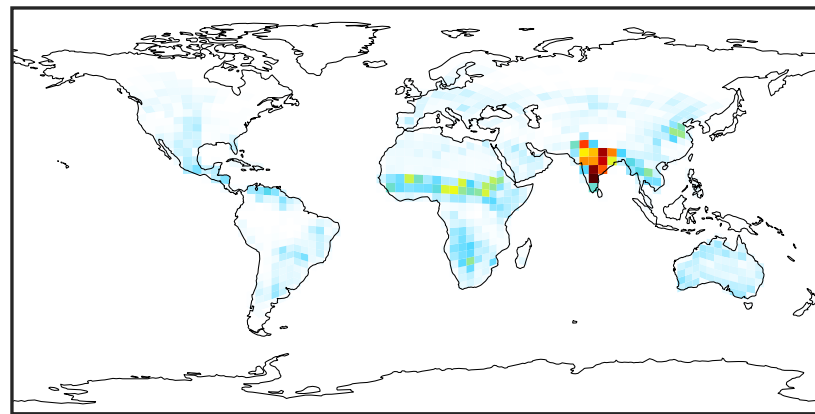
0.50 0.75 1.00 1.50 2.00  
unitless

# EmisNO\_Soil (Apr2019)

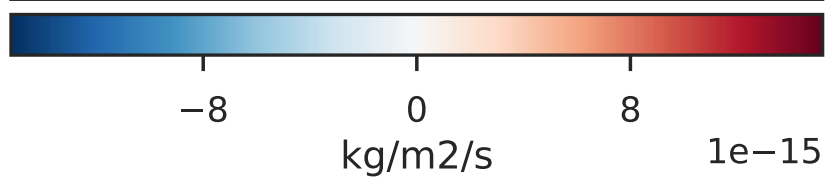
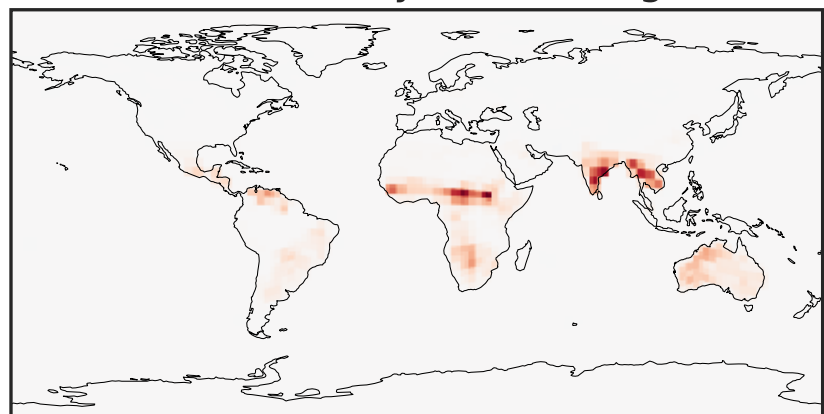
14.2.0-rc.2 (Ref)  
c24



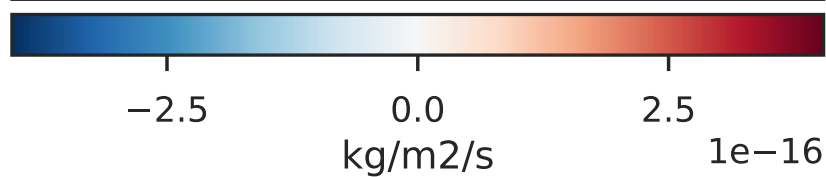
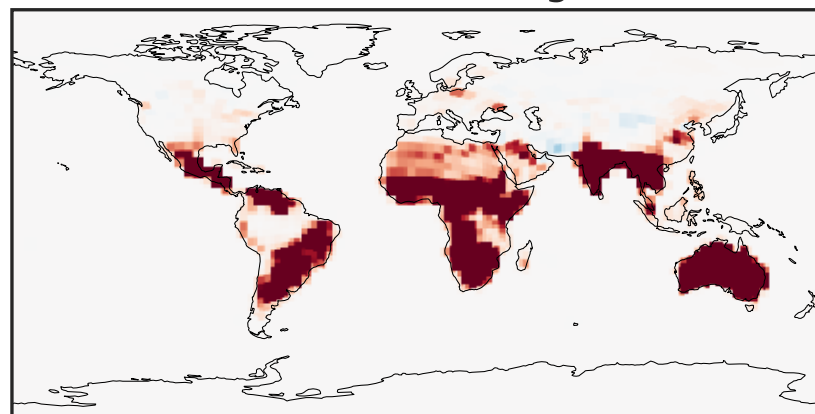
14.3.0-rc.0 (Dev)  
c24



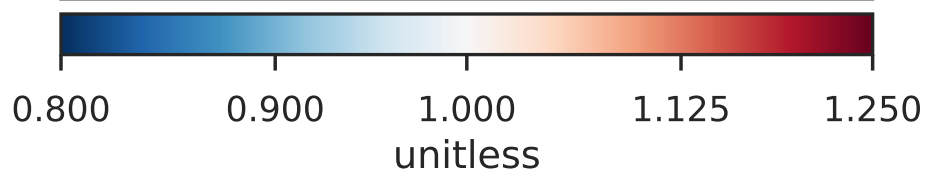
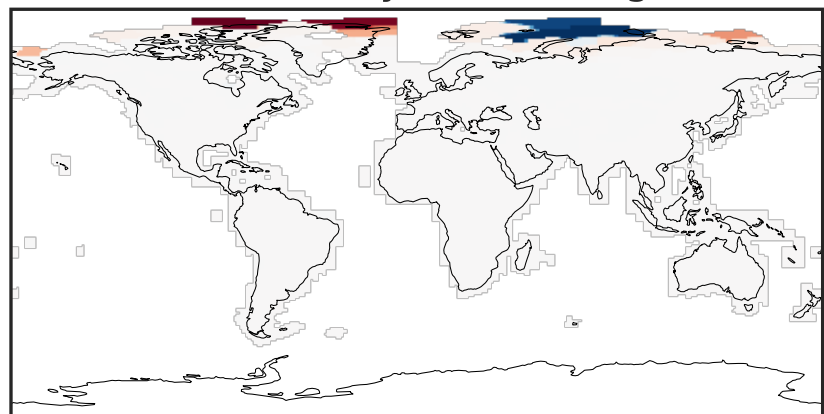
Difference (1x1.25)  
Dev - Ref, Dynamic Range



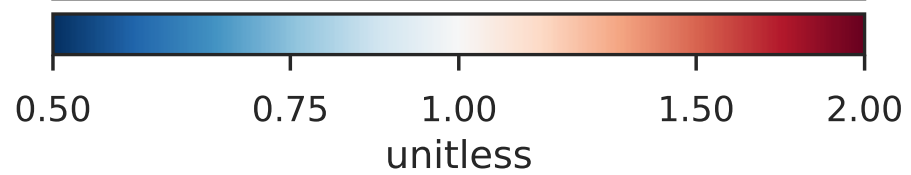
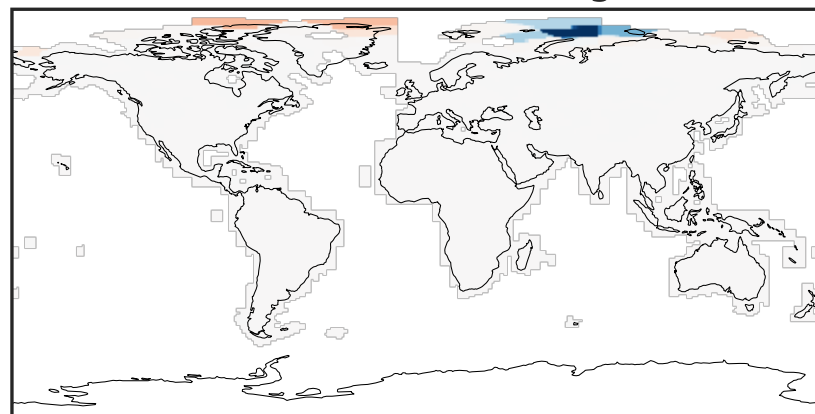
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

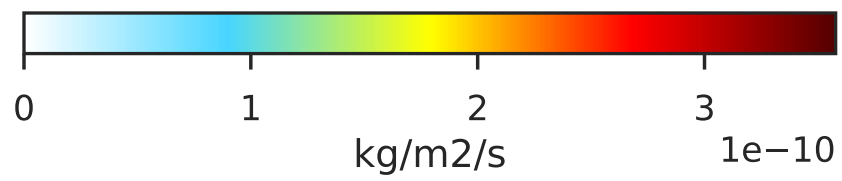
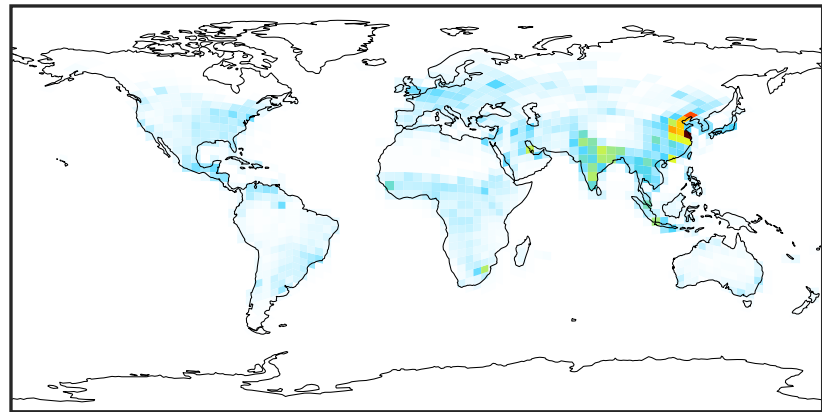


Ratio (1x1.25)  
Dev/Ref, Fixed Range

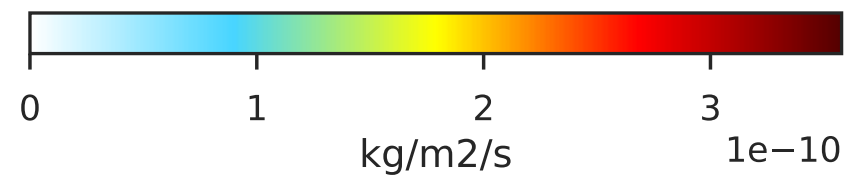
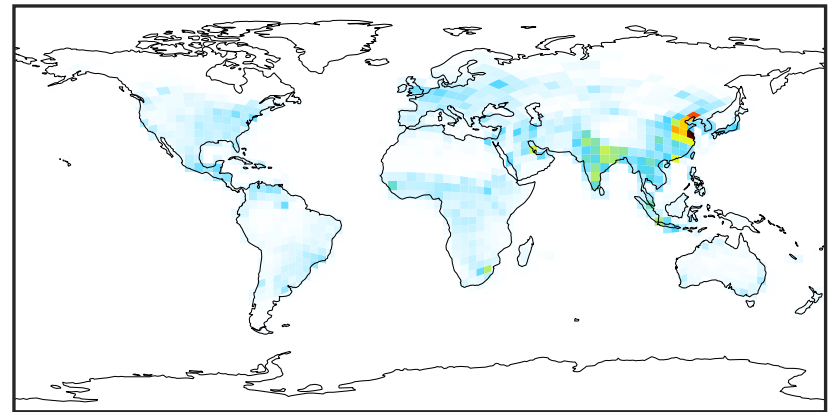


# EmisNO\_Total (Apr2019)

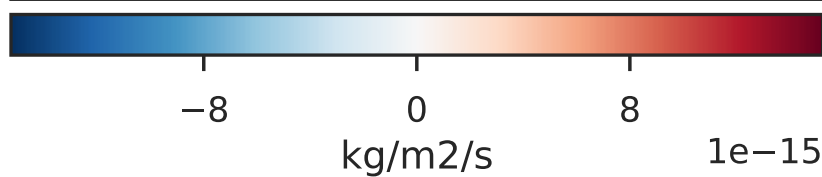
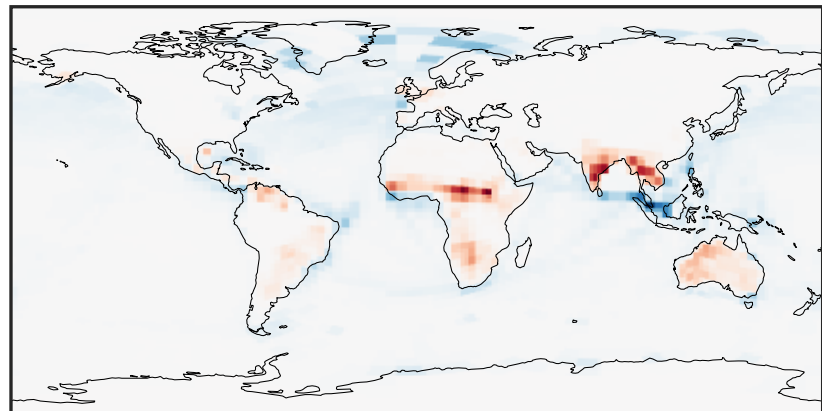
14.2.0-rc.2 (Ref)  
c24



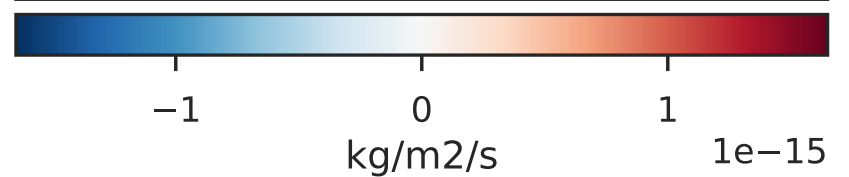
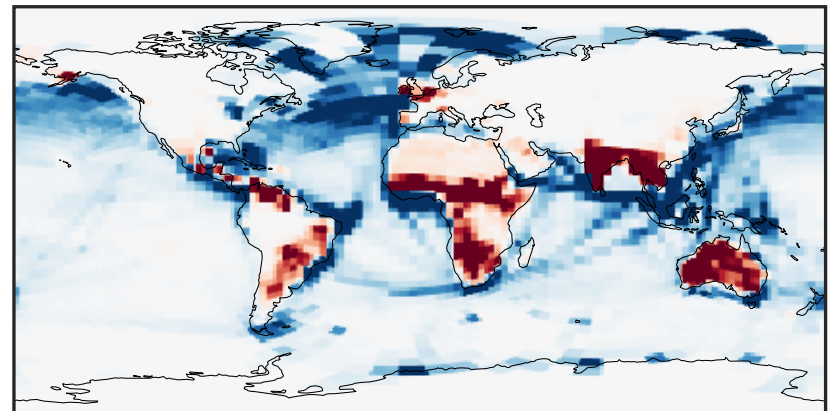
14.3.0-rc.0 (Dev)  
c24



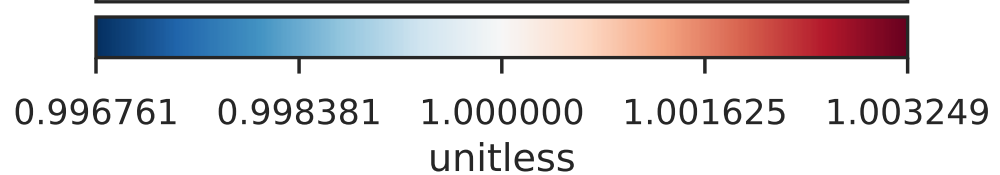
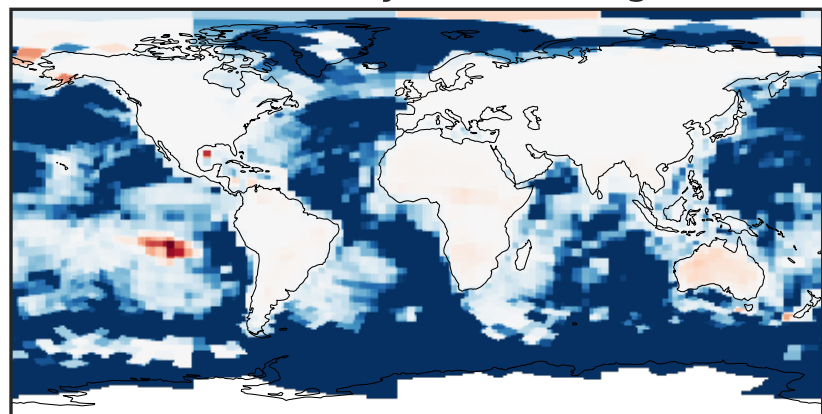
Difference (1x1.25)  
Dev - Ref, Dynamic Range



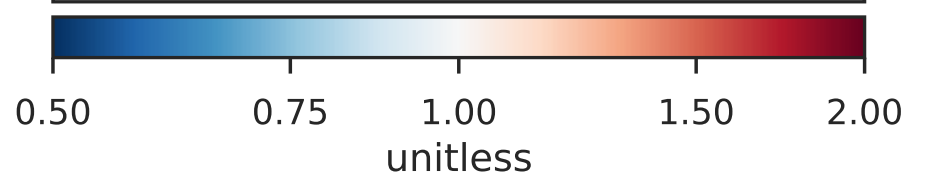
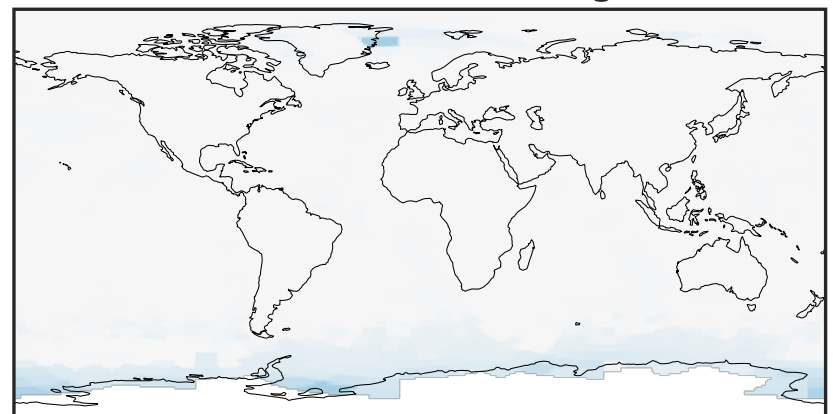
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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



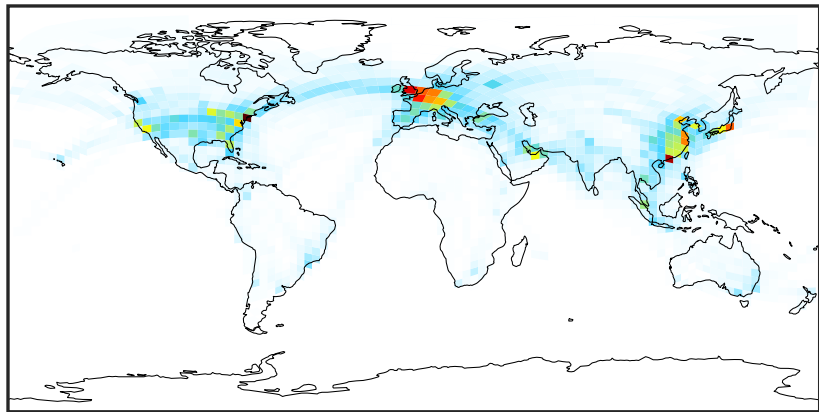
Ratio (1x1.25)  
Dev/Ref, Fixed Range





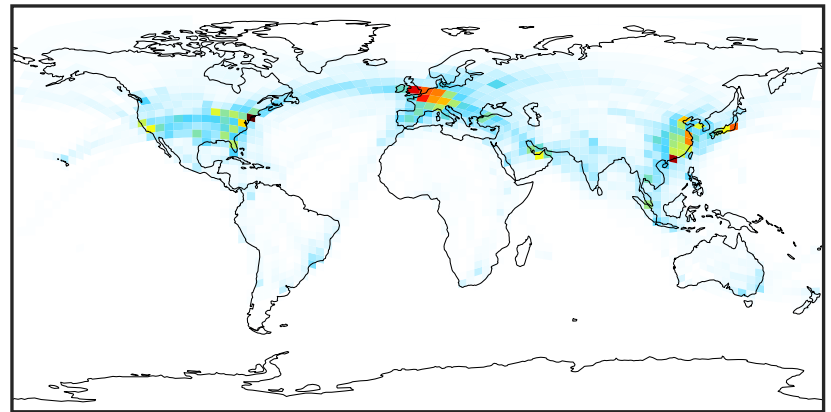
# EmisNO2\_Aircraft (Apr2019)

14.2.0-rc.2 (Ref)  
c24



0.0 0.4 0.8 1.2  
kg/m<sup>2</sup>/s 1e-12

14.3.0-rc.0 (Dev)  
c24



0.0 0.4 0.8 1.2  
kg/m<sup>2</sup>/s 1e-12

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



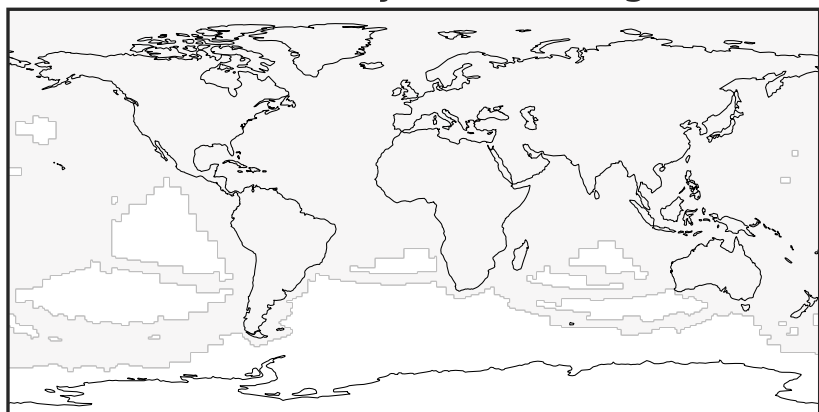
Zero throughout domain  
kg/m<sup>2</sup>/s

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



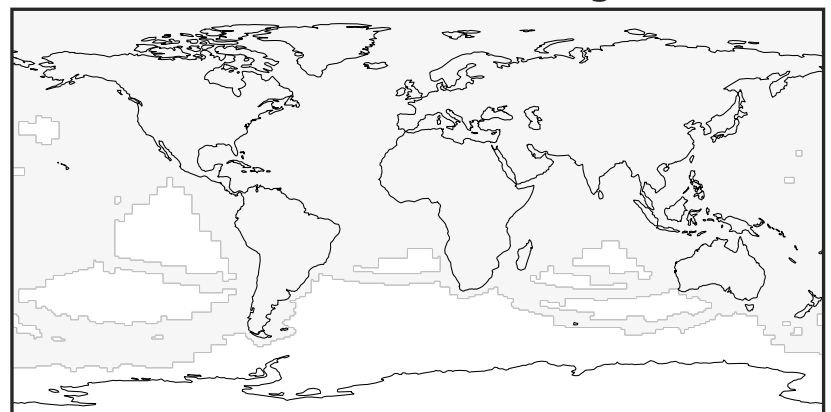
Zero throughout domain  
kg/m<sup>2</sup>/s

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



Ref and Dev equal throughout domain  
unitless

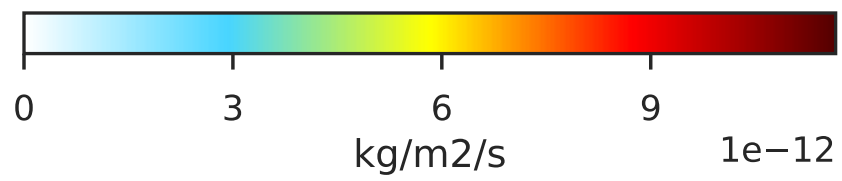
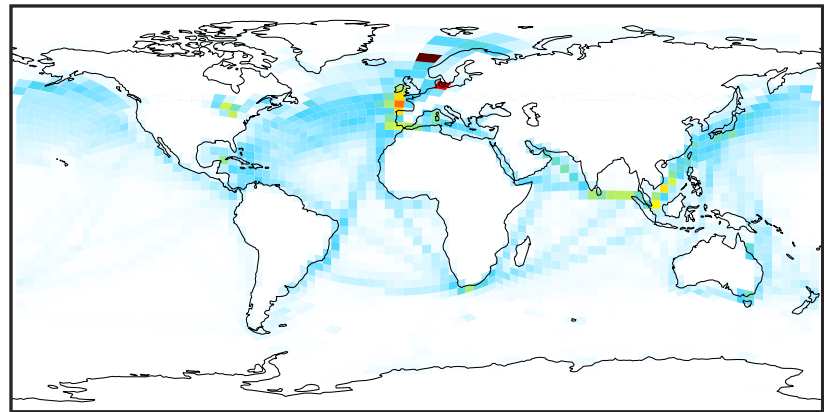
Ratio (1x1.25)  
Dev/Ref, Fixed Range



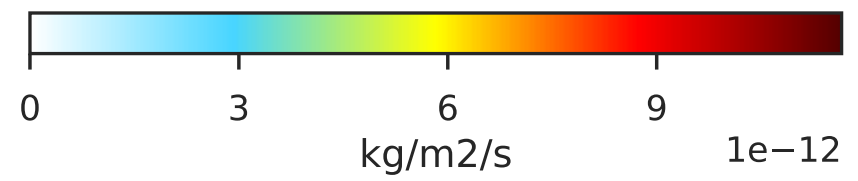
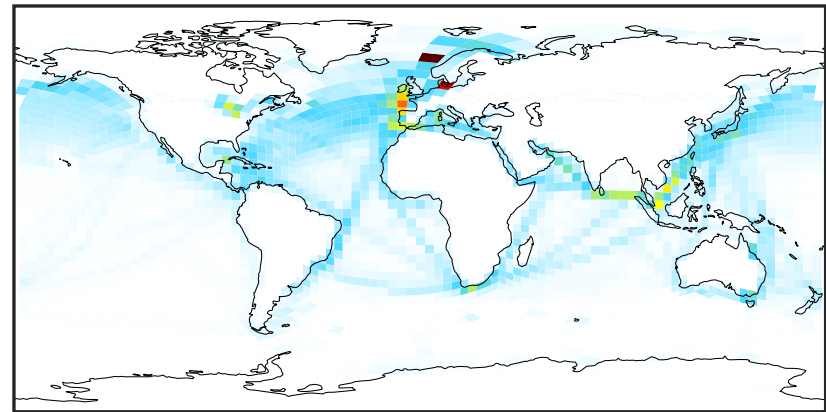
Ref and Dev equal throughout domain  
unitless

# EmisNO2\_Ship (Apr2019)

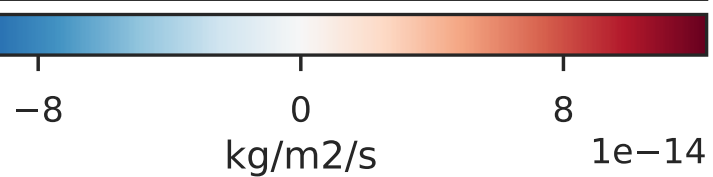
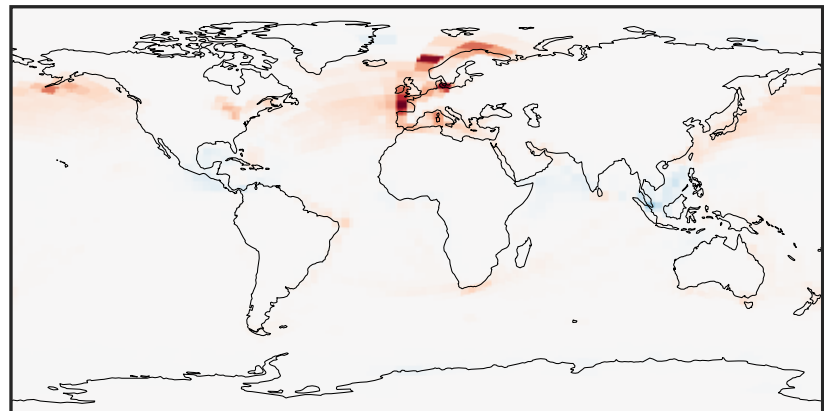
14.2.0-rc.2 (Ref)  
c24



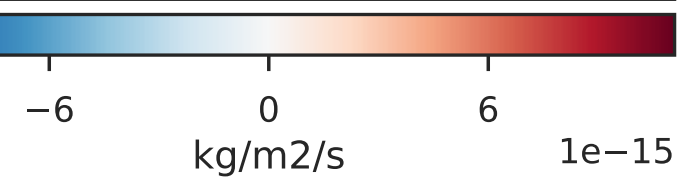
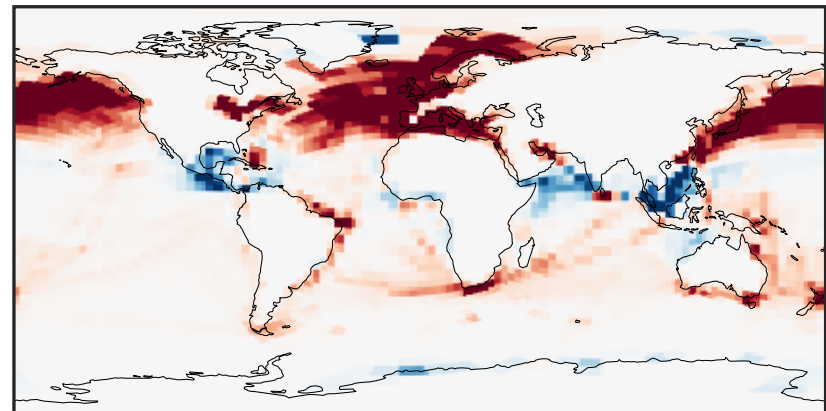
14.3.0-rc.0 (Dev)  
c24



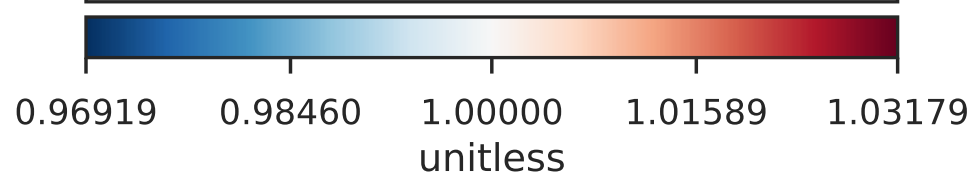
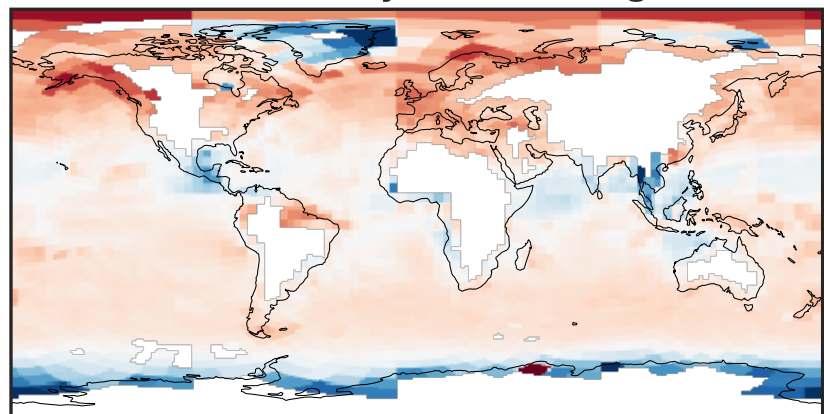
Difference (1x1.25)  
Dev - Ref, Dynamic Range



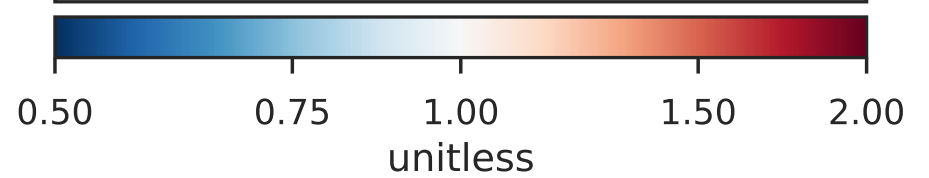
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

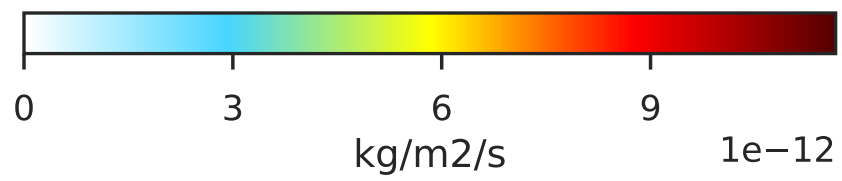
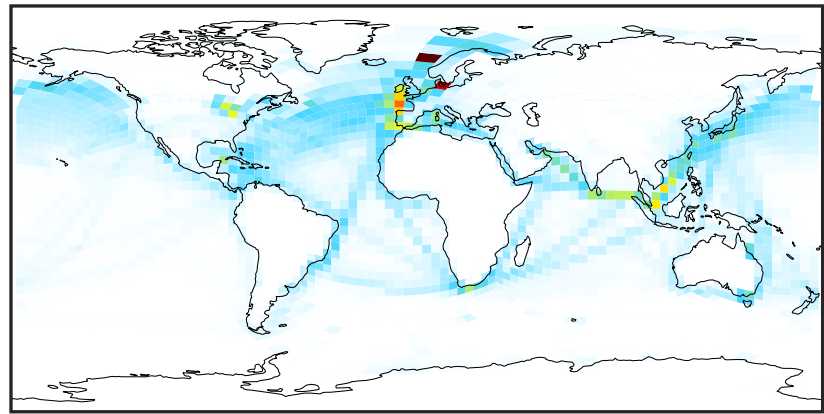


Ratio (1x1.25)  
Dev/Ref, Fixed Range

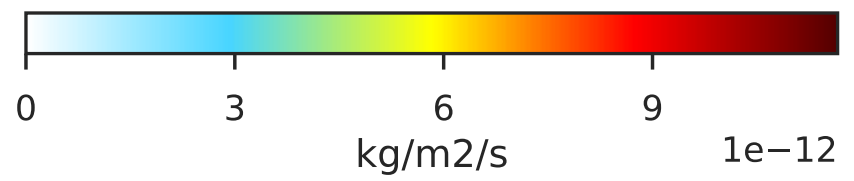
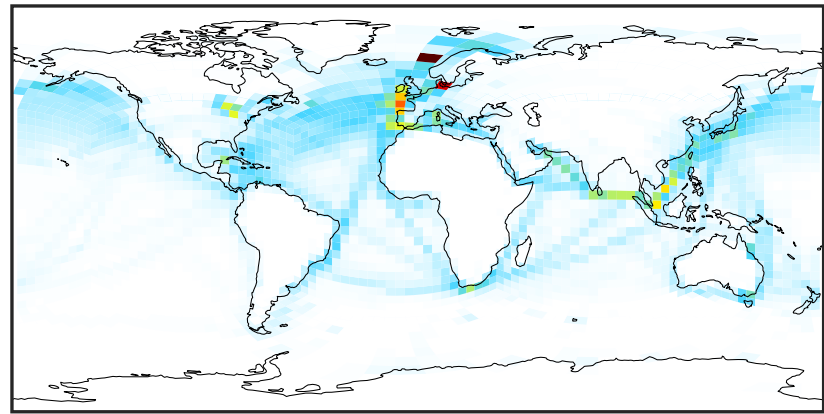


# EmisNO2\_Total (Apr2019)

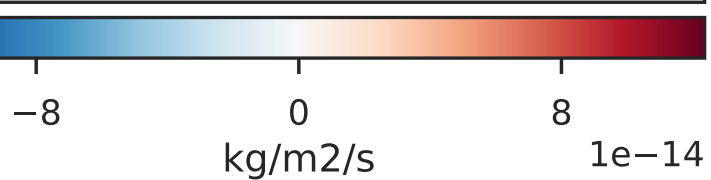
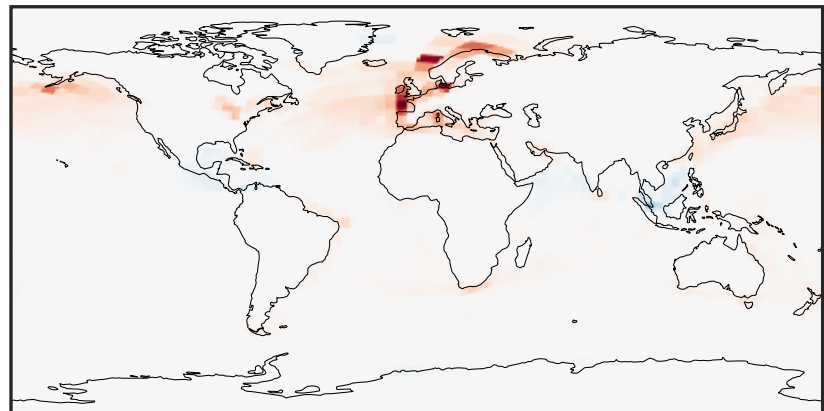
14.2.0-rc.2 (Ref)  
c24



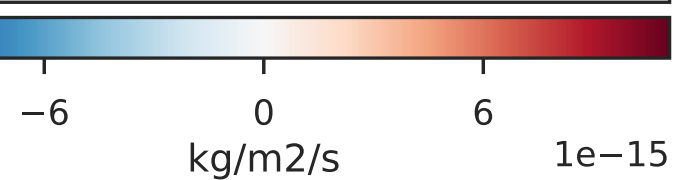
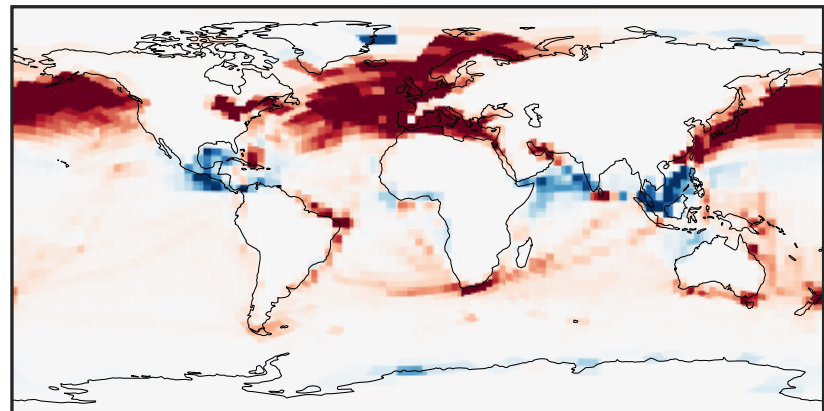
14.3.0-rc.0 (Dev)  
c24



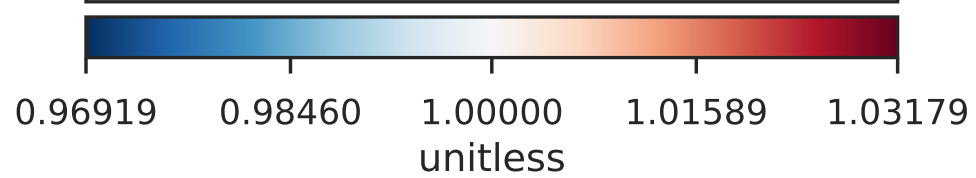
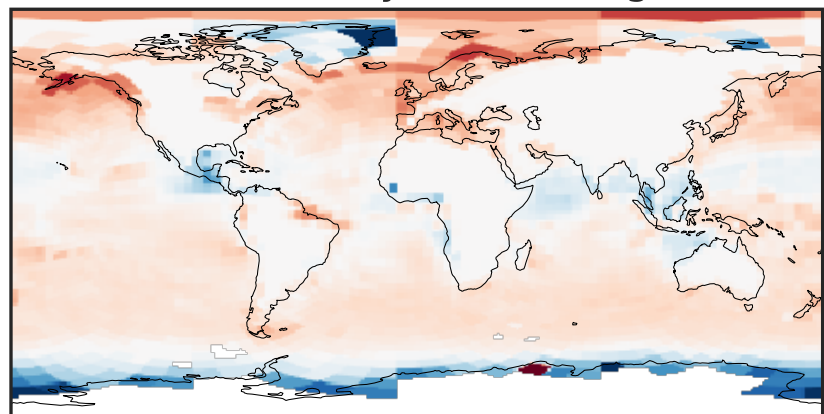
Difference (1x1.25)  
Dev - Ref, Dynamic Range



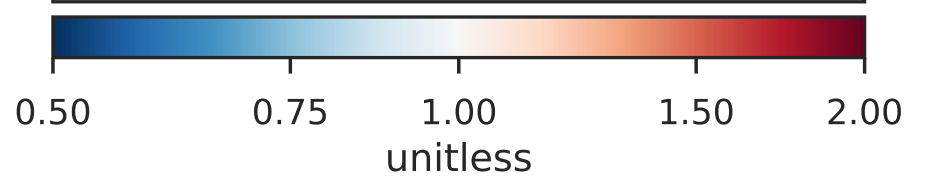
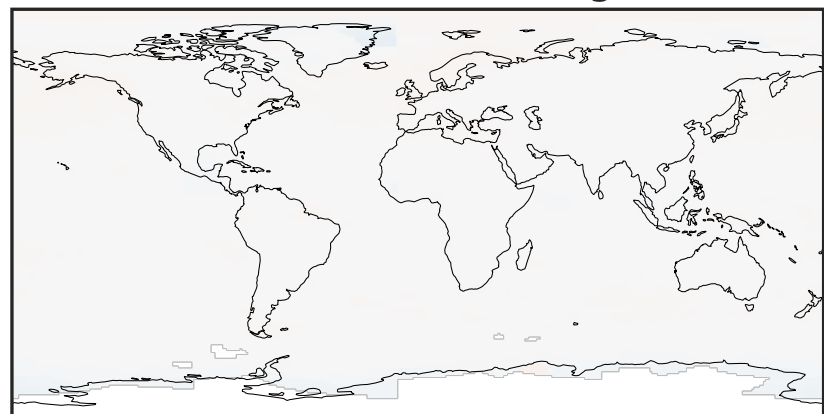
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

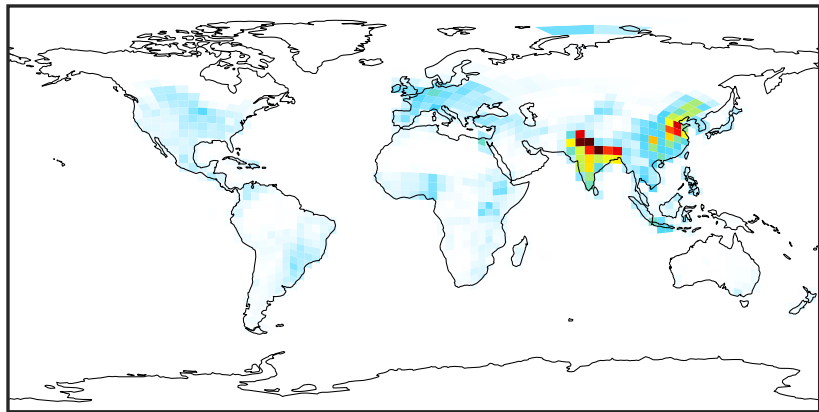


Ratio (1x1.25)  
Dev/Ref, Fixed Range



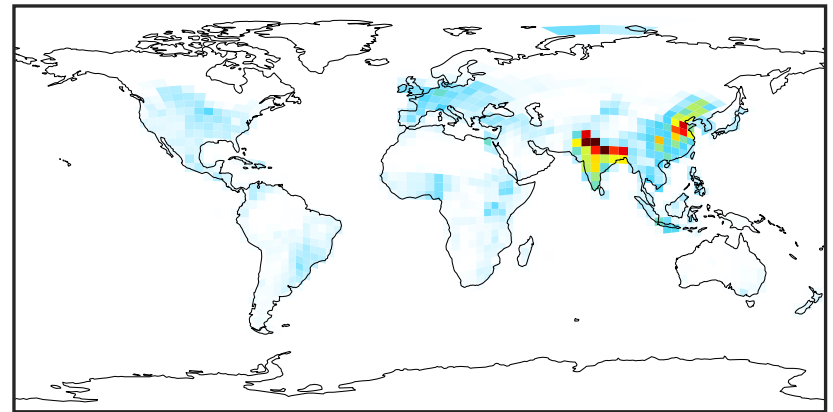
# EmisNH3\_Anthro (Apr2019)

14.2.0-rc.2 (Ref)  
c24



0.0 0.8 1.6 2.4  
kg/m<sup>2</sup>/s 1e-10

14.3.0-rc.0 (Dev)  
c24



0.0 0.8 1.6 2.4  
kg/m<sup>2</sup>/s 1e-10

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



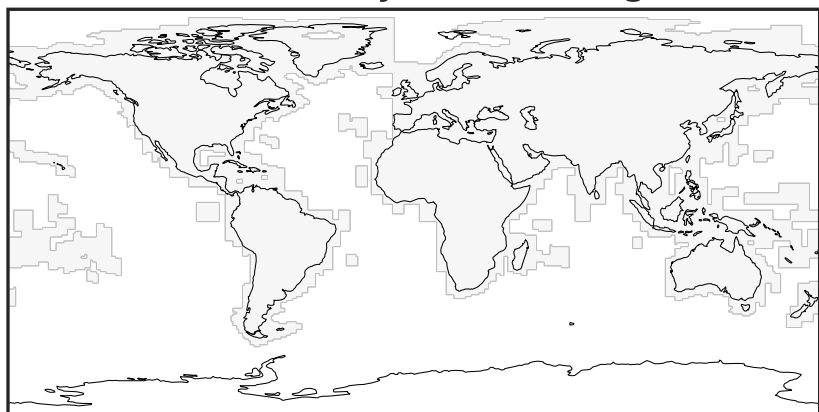
Zero throughout domain  
kg/m<sup>2</sup>/s

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



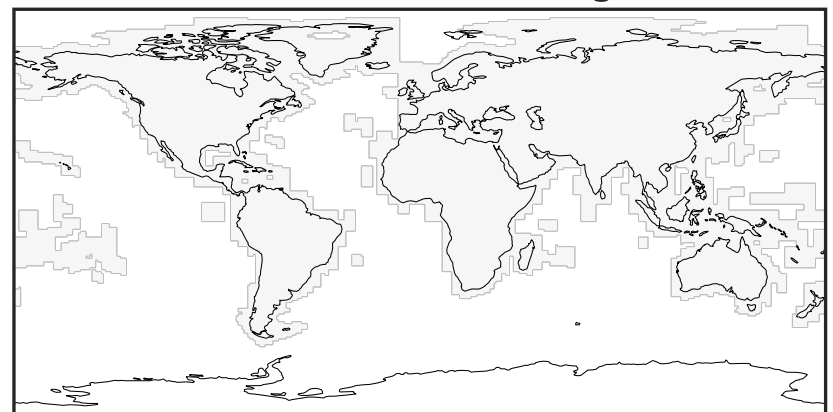
Zero throughout domain  
kg/m<sup>2</sup>/s

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



Ref and Dev equal throughout domain  
unitless

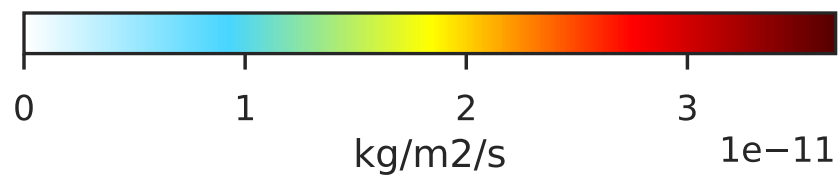
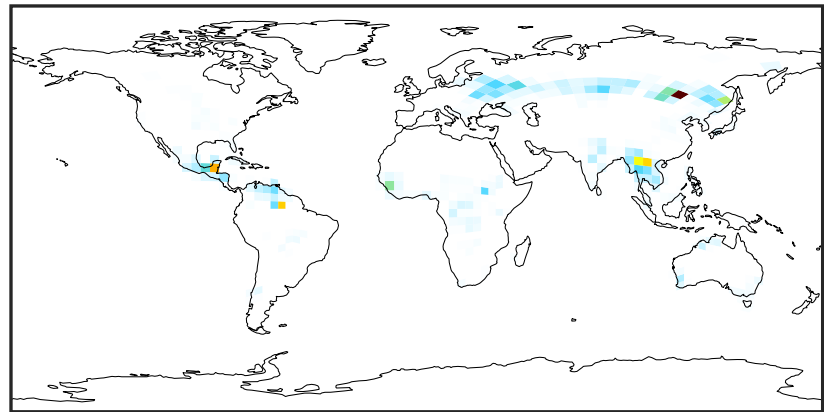
Ratio (1x1.25)  
Dev/Ref, Fixed Range



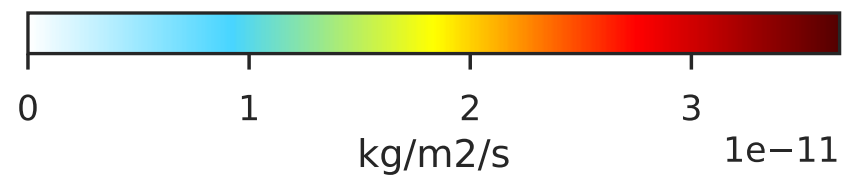
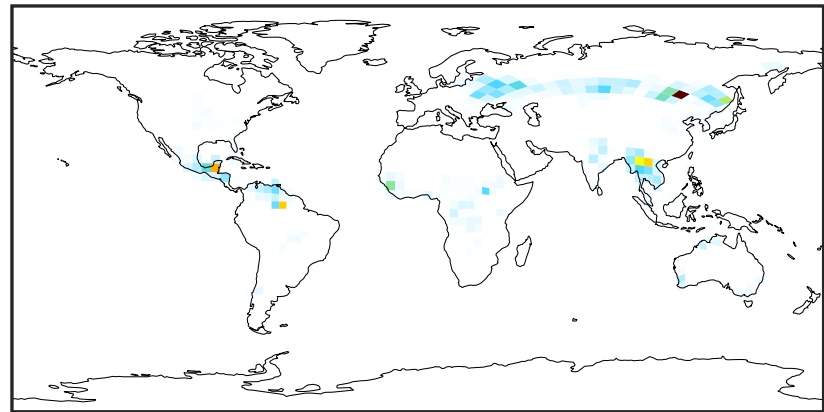
Ref and Dev equal throughout domain  
unitless

# EmisNH3\_BioBurn (Apr2019)

14.2.0-rc.2 (Ref)  
c24



14.3.0-rc.0 (Dev)  
c24



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



Zero throughout domain  
kg/m2/s

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



Zero throughout domain  
kg/m2/s

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



Ref and Dev equal throughout domain  
unitless

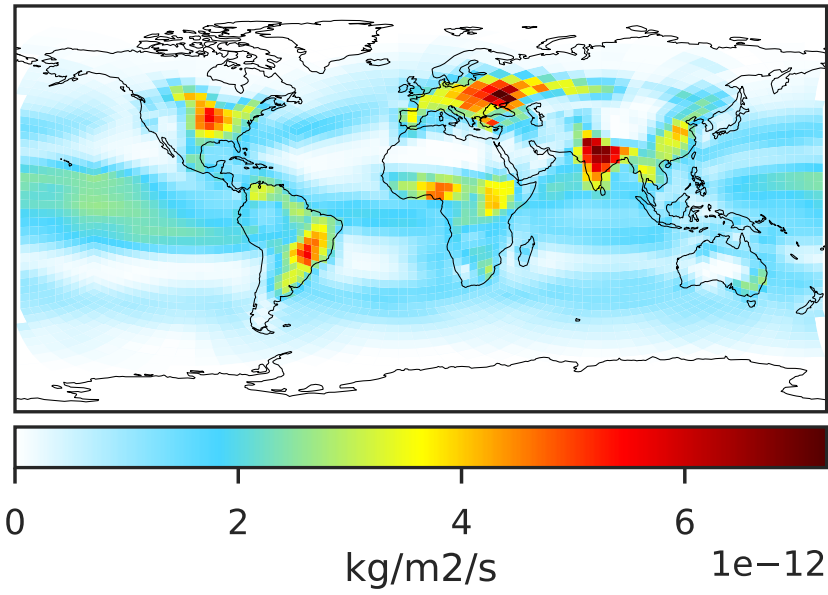
Ratio (1x1.25)  
Dev/Ref, Fixed Range



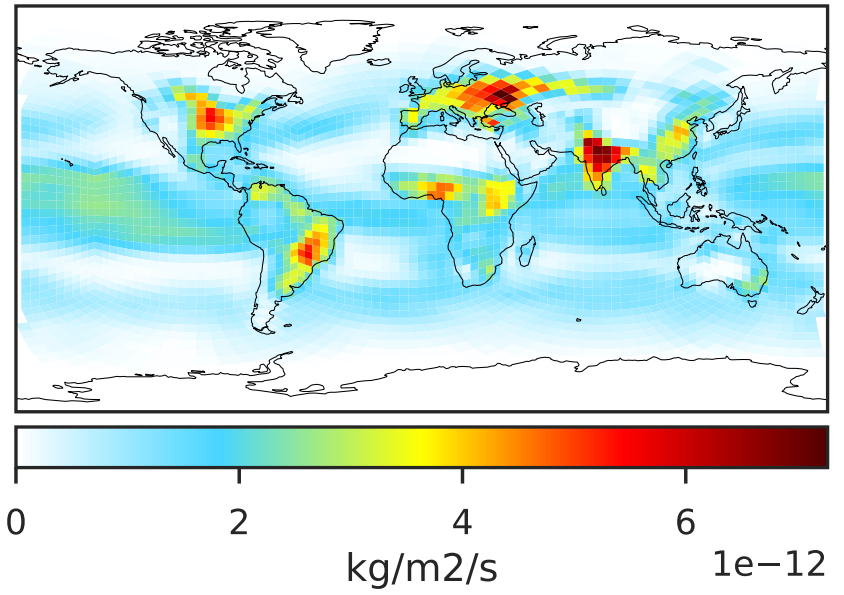
Ref and Dev equal throughout domain  
unitless

# EmisNH3\_Natural (Apr2019)

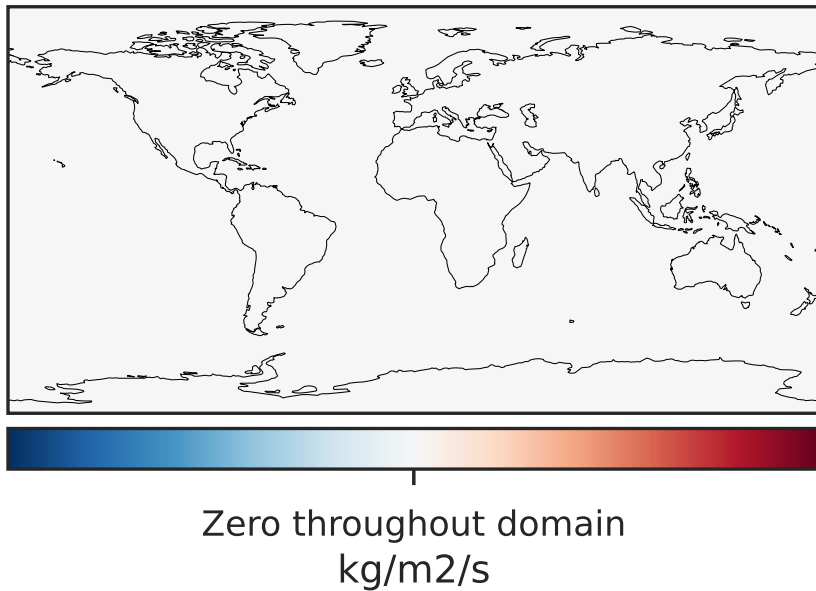
14.2.0-rc.2 (Ref)  
c24



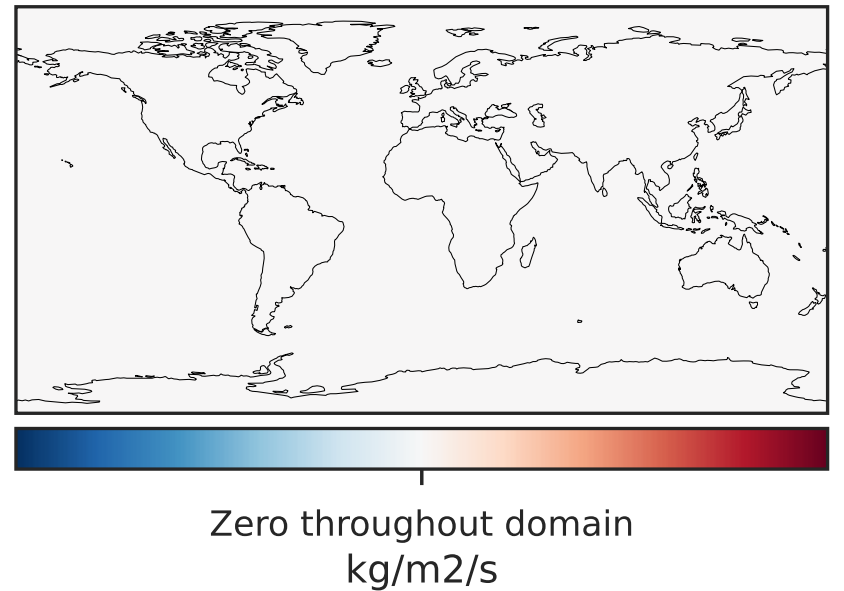
14.3.0-rc.0 (Dev)  
c24



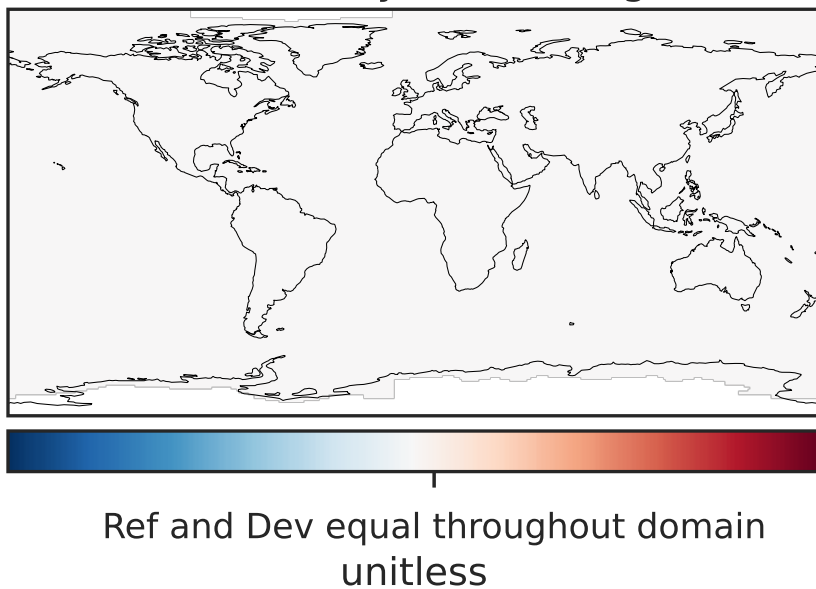
Difference (1x1.25)  
Dev - Ref, Dynamic Range



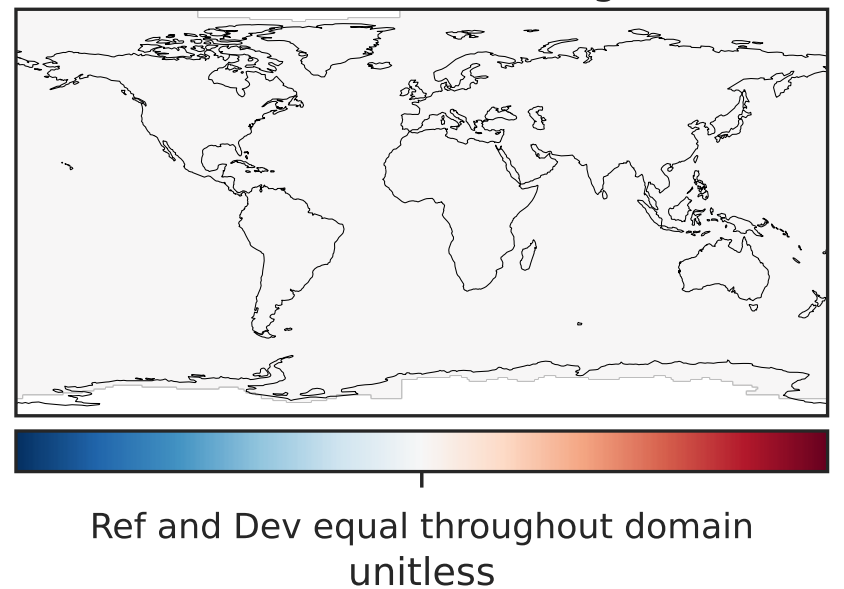
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

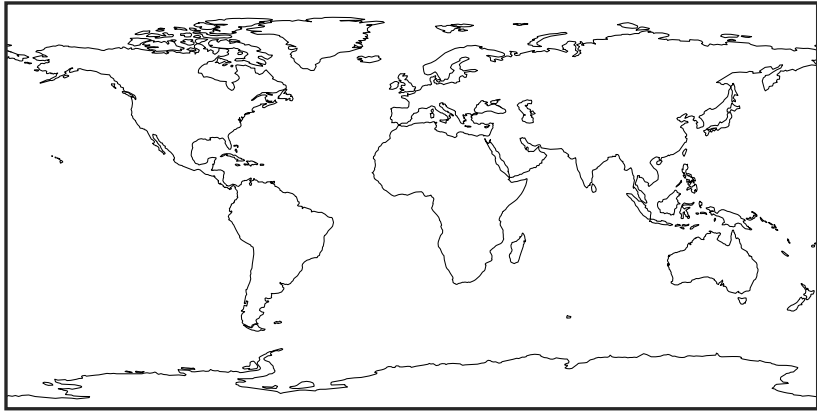


Ratio (1x1.25)  
Dev/Ref, Fixed Range



# EmisNH3\_Seabirds (Apr2019)

14.2.0-rc.2 (Ref)  
c24



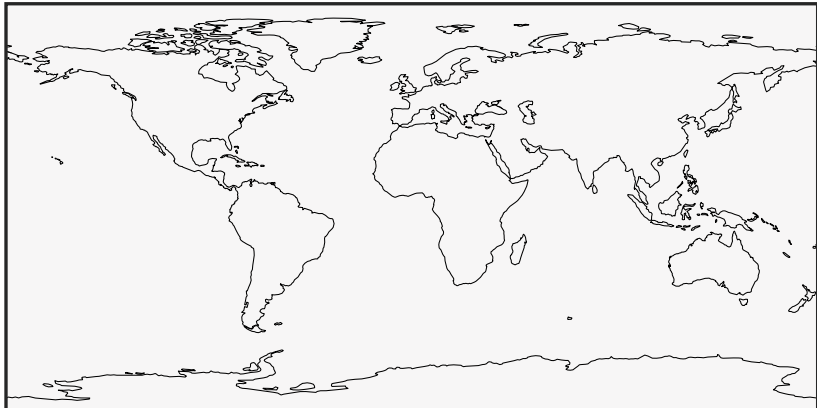
Zero throughout domain  
kg/m<sup>2</sup>/s

14.3.0-rc.0 (Dev)  
c24



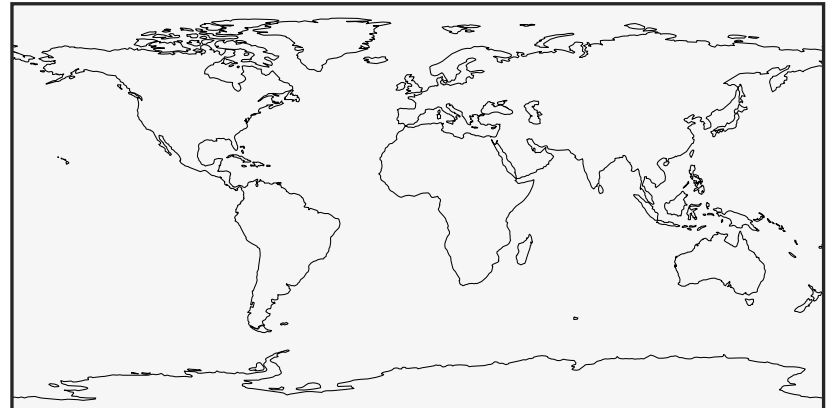
Zero throughout domain  
kg/m<sup>2</sup>/s

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



Zero throughout domain  
kg/m<sup>2</sup>/s

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



Zero throughout domain  
kg/m<sup>2</sup>/s

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



Undefined throughout domain  
unitless

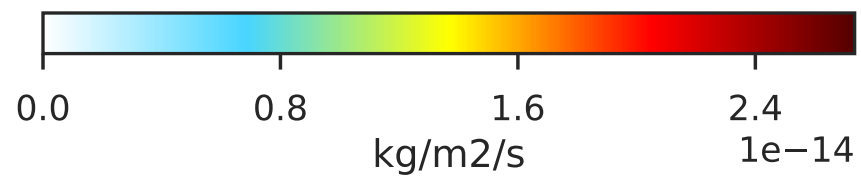
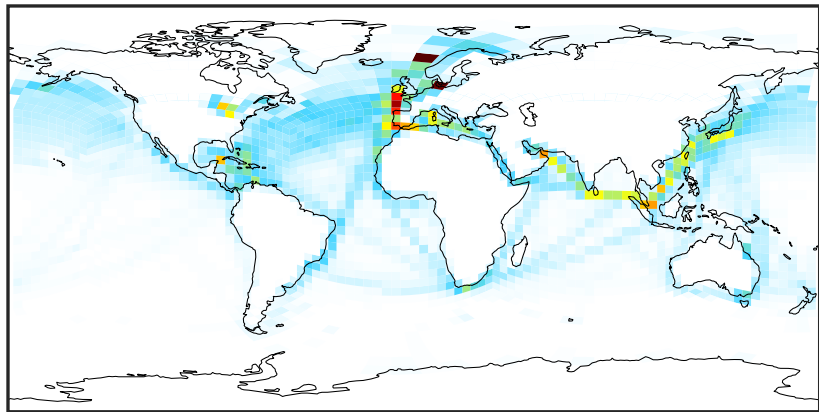
Ratio (1x1.25)  
Dev/Ref, Fixed Range



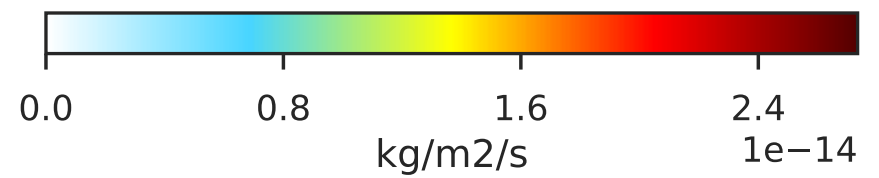
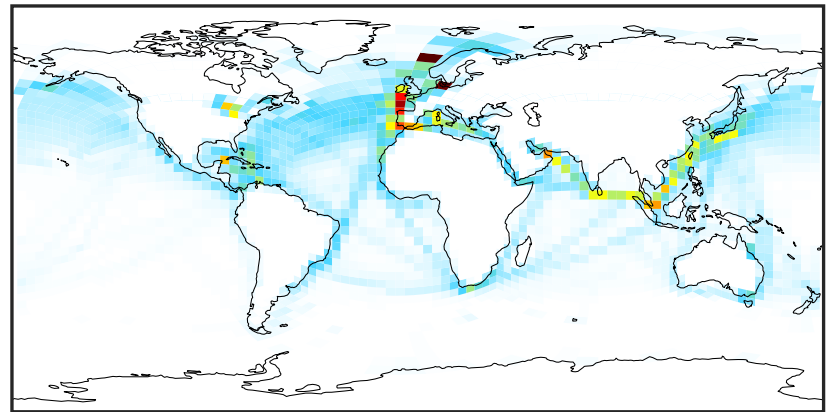
Undefined throughout domain  
unitless

# EmisNH3\_Ship (Apr2019)

14.2.0-rc.2 (Ref)  
c24



14.3.0-rc.0 (Dev)  
c24

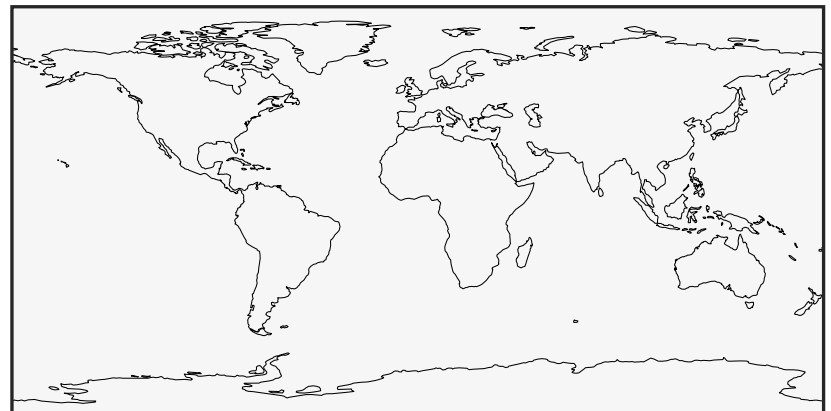


Difference (1x1.25)  
Dev - Ref, Dynamic Range



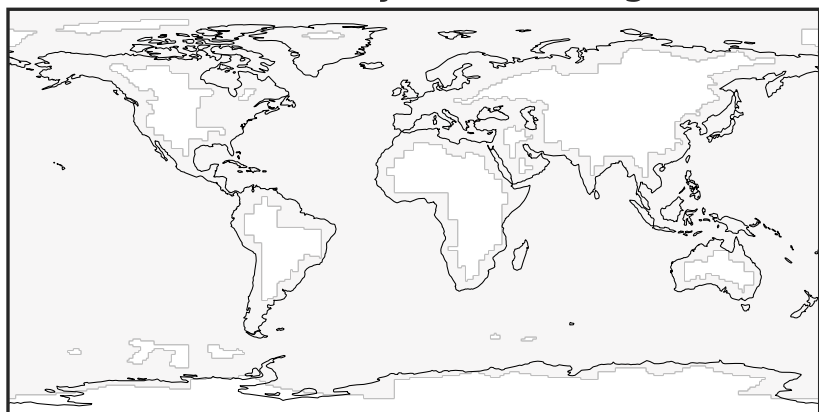
Zero throughout domain  
kg/m2/s

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



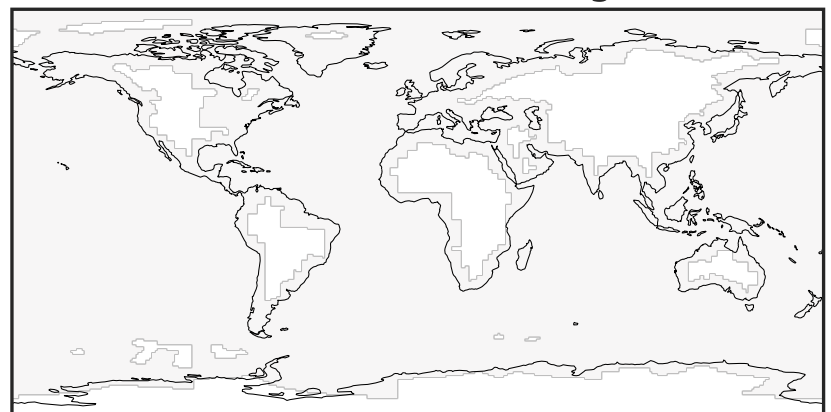
Zero throughout domain  
kg/m2/s

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



Ref and Dev equal throughout domain  
unitless

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

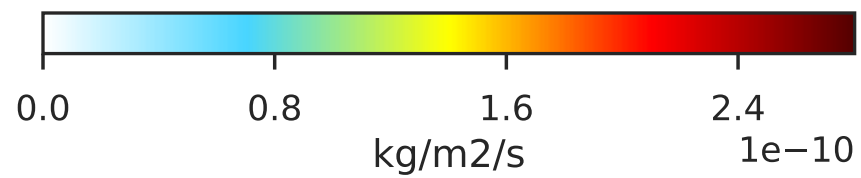
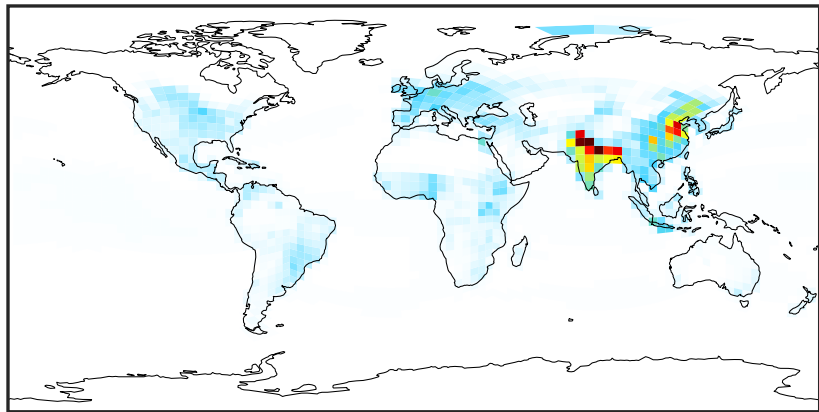


Ref and Dev equal throughout domain  
unitless

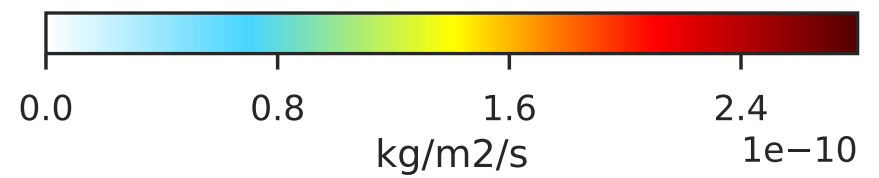
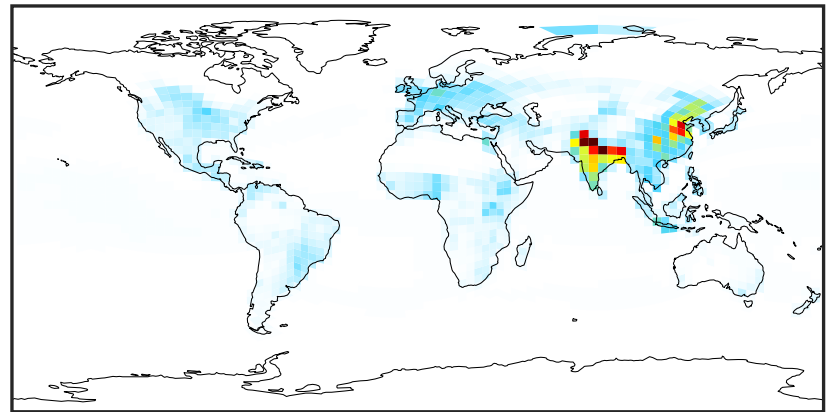


# EmisNH3\_Total (Apr2019)

14.2.0-rc.2 (Ref)  
c24



14.3.0-rc.0 (Dev)  
c24



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



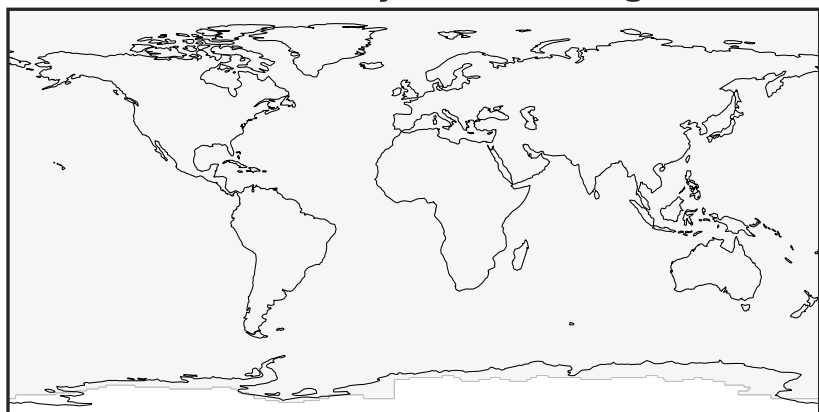
Zero throughout domain  
kg/m2/s

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



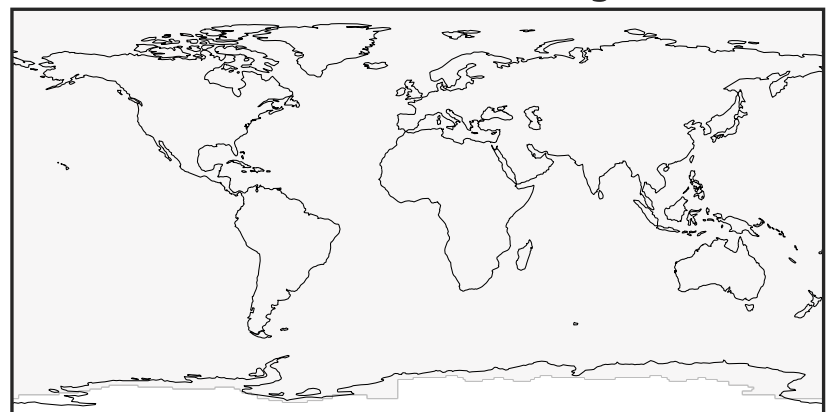
Zero throughout domain  
kg/m2/s

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



Ref and Dev equal throughout domain  
unitless

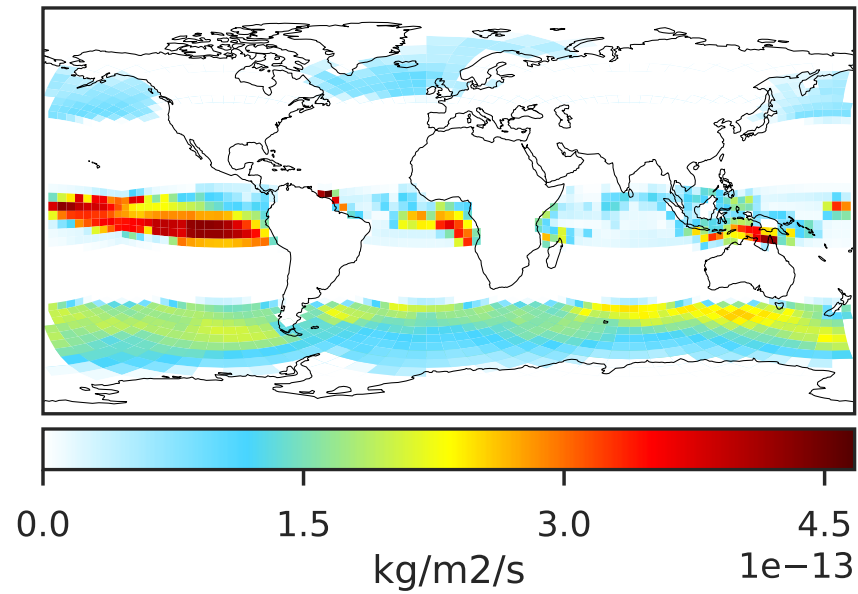
Ratio (1x1.25)  
Dev/Ref, Fixed Range



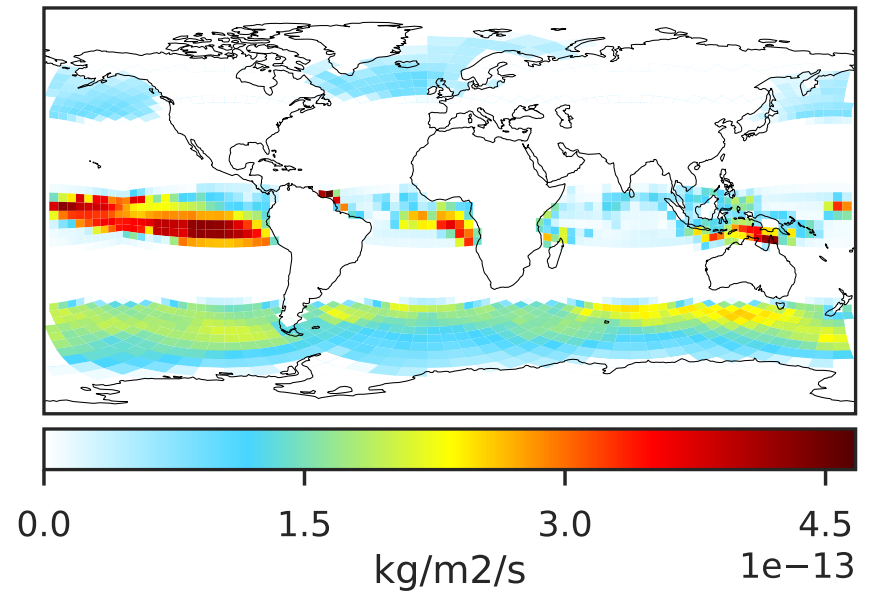
Ref and Dev equal throughout domain  
unitless

# EmisMENO3\_Ocean (Apr2019)

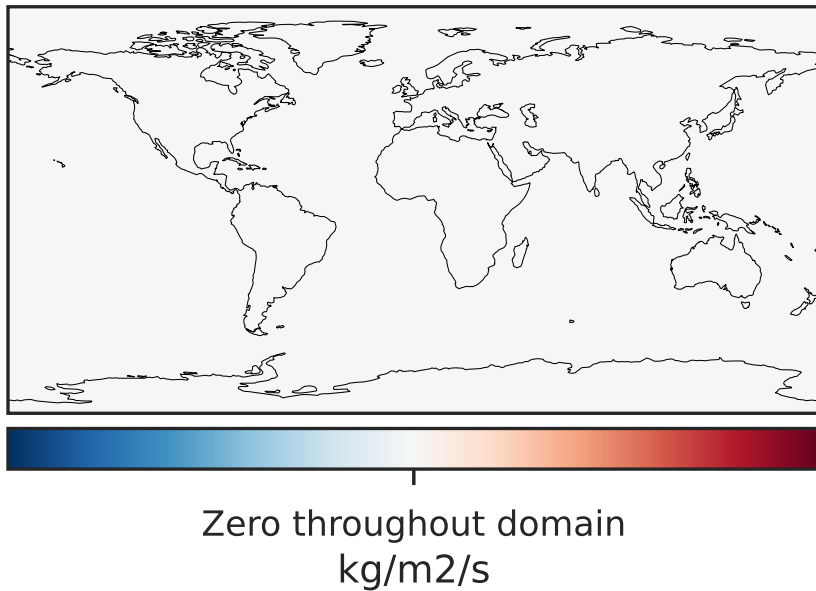
14.2.0-rc.2 (Ref)  
c24



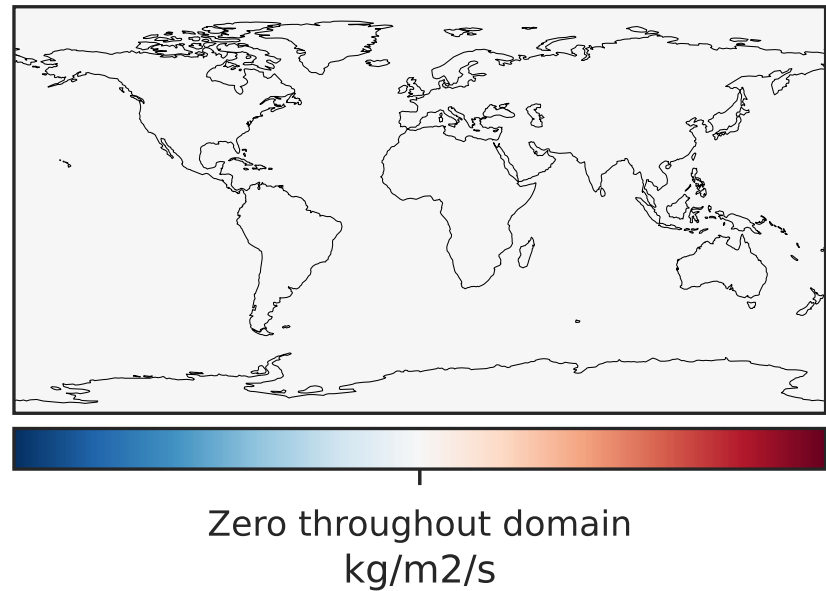
14.3.0-rc.0 (Dev)  
c24



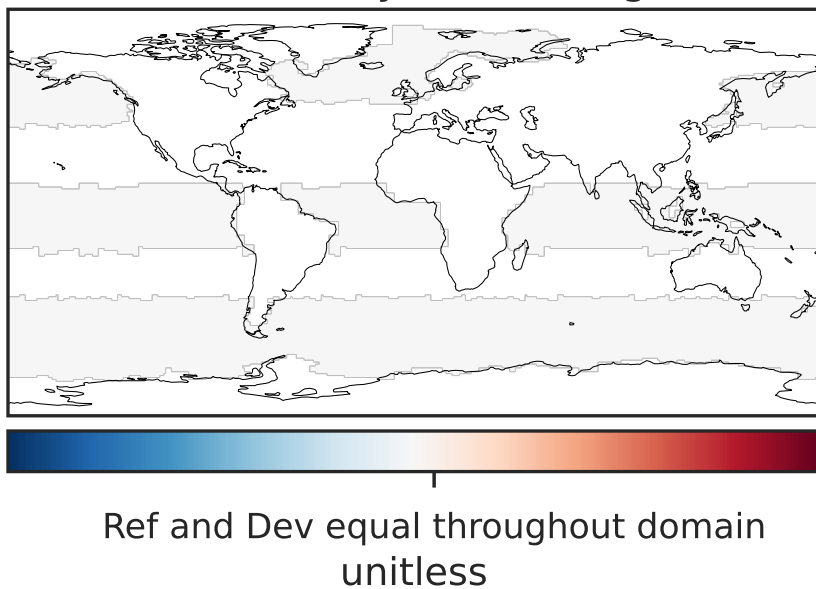
Difference (1x1.25)  
Dev - Ref, Dynamic Range



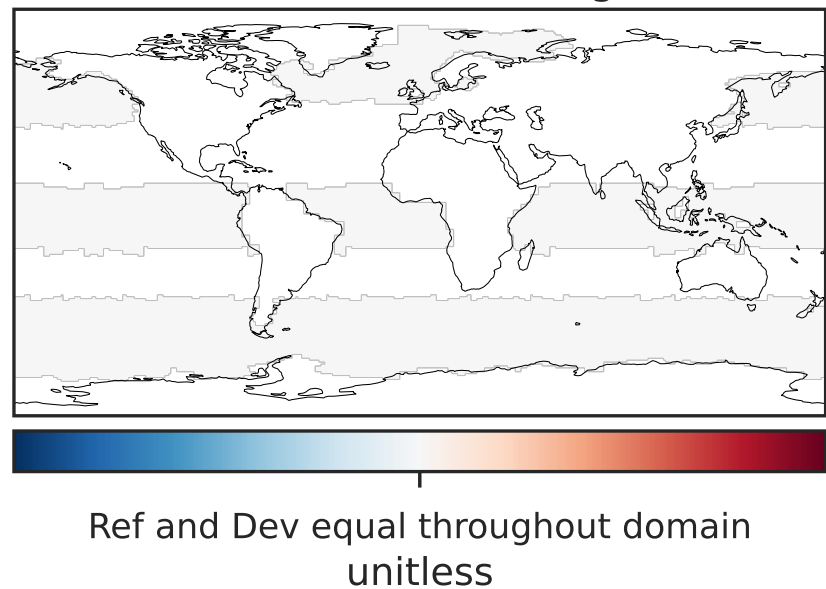
Difference (1x1.25)  
Dev - Ref, Restricted Range [5%,95%]



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

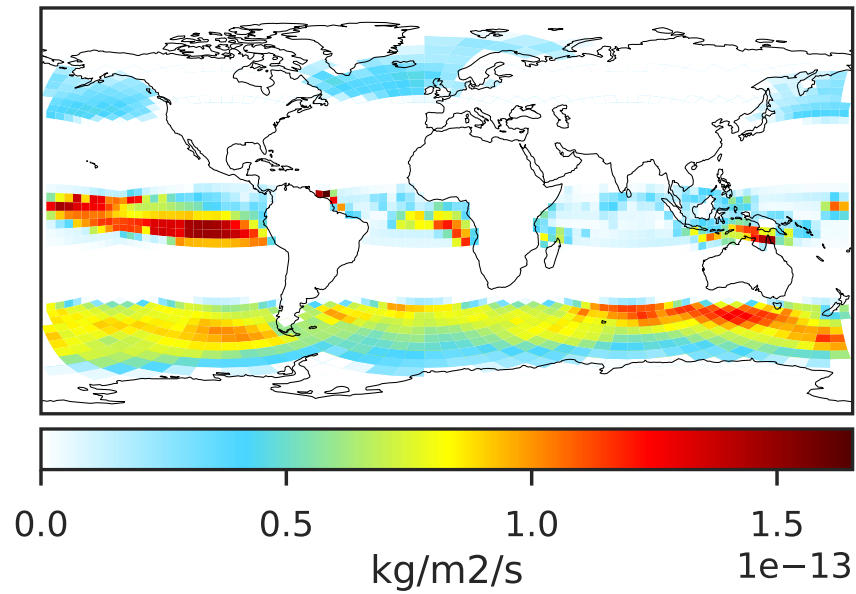


Ratio (1x1.25)  
Dev/Ref, Fixed Range

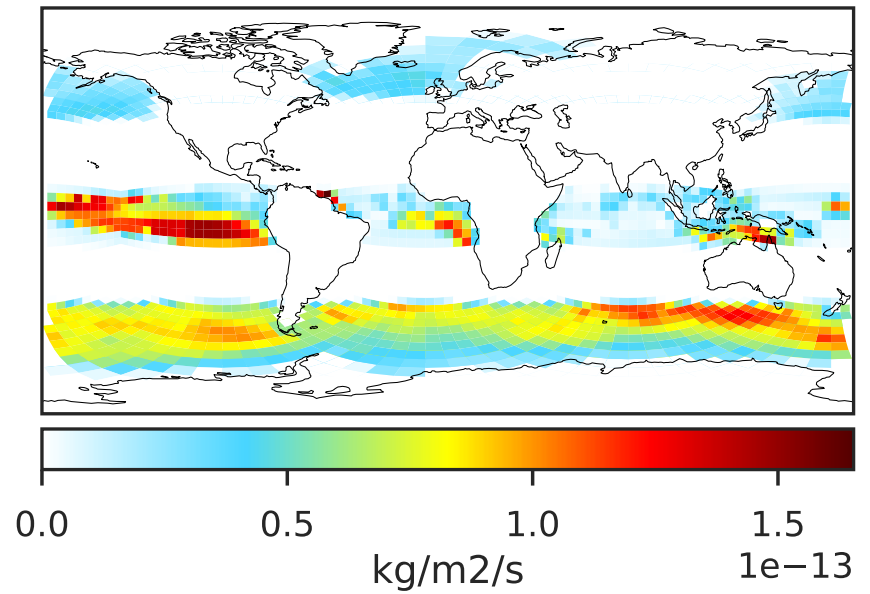


# EmisETNO3\_Ocean (Apr2019)

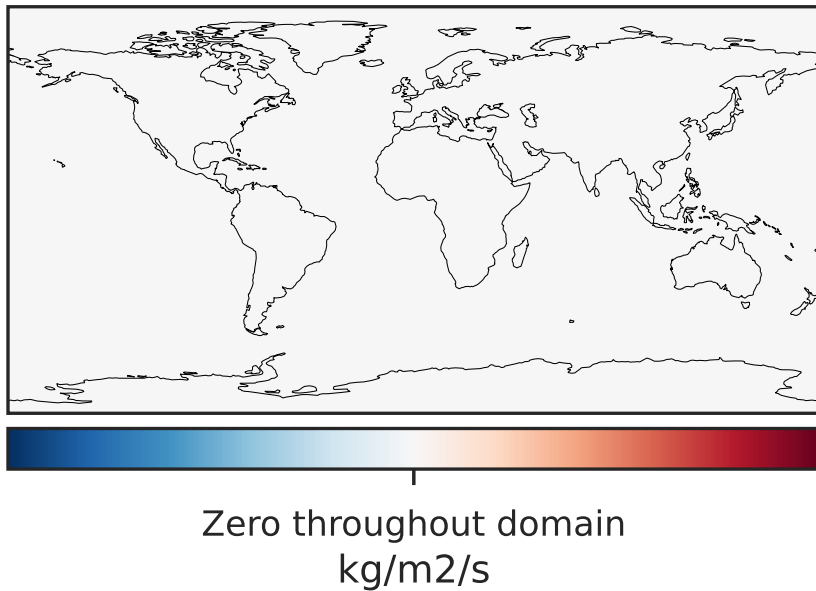
14.2.0-rc.2 (Ref)  
c24



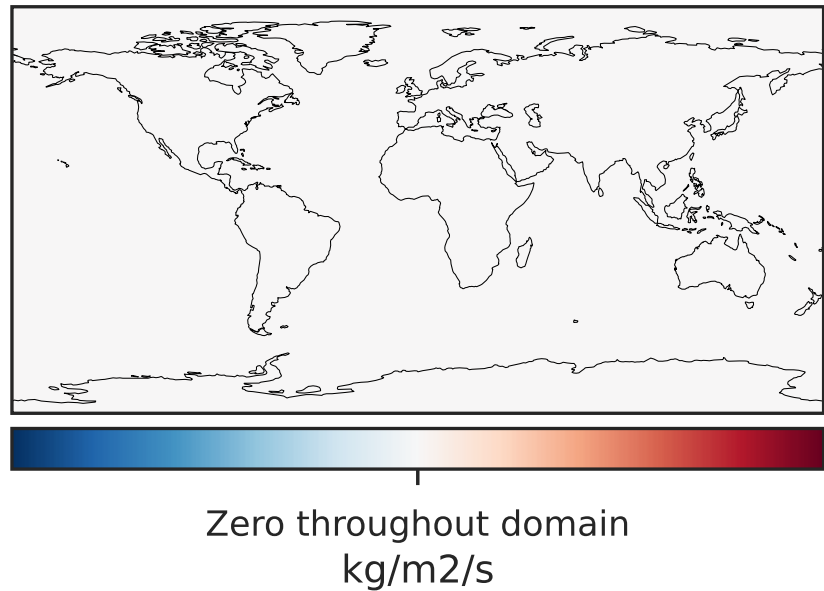
14.3.0-rc.0 (Dev)  
c24



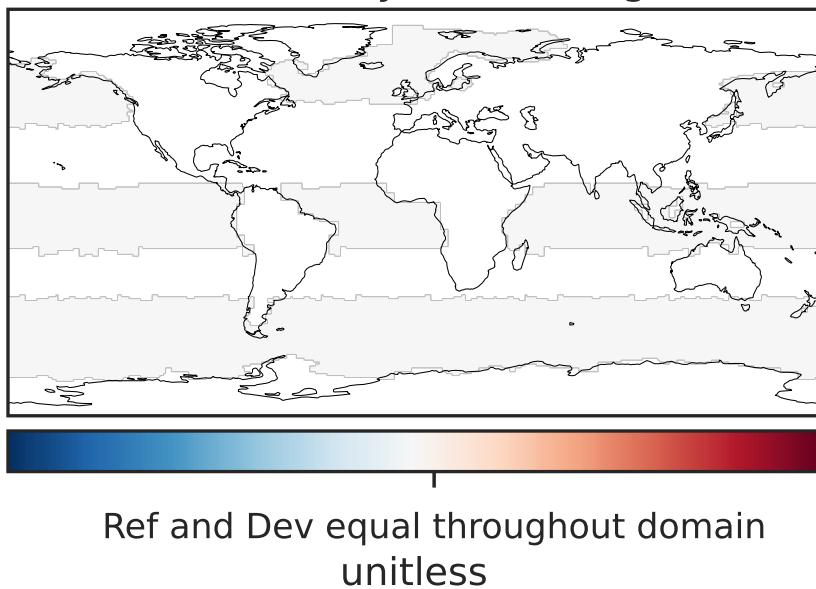
Difference (1x1.25)  
Dev - Ref, Dynamic Range



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



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



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

