

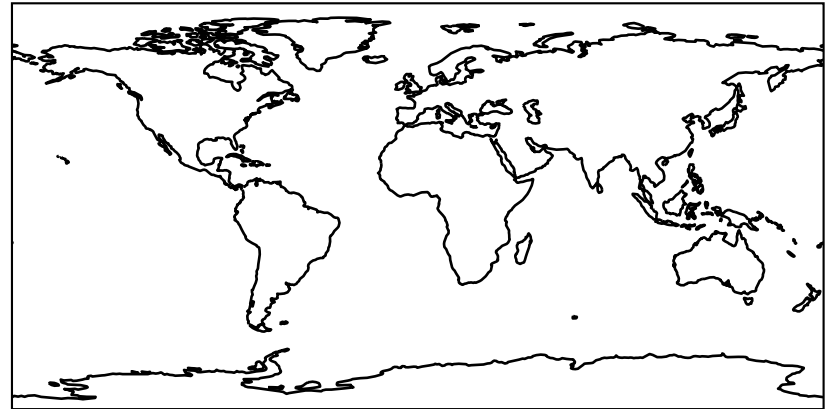
EmisHNO2_Anthro (Apr2019)

GCHP_13.0.0-beta.1 (Ref)
c48



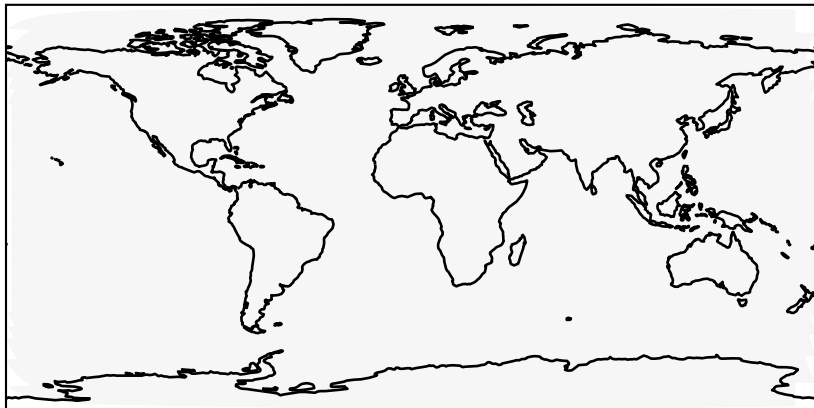
Zero throughout domain
kg/m2/s

GCHP_13.0.0-rc.0 (Dev)
c48



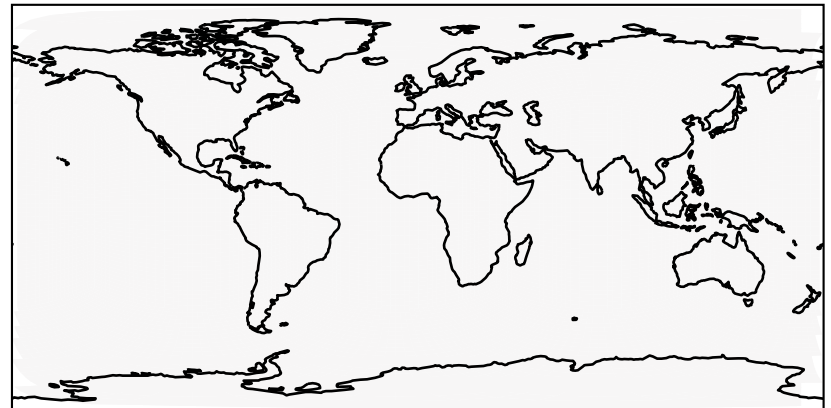
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

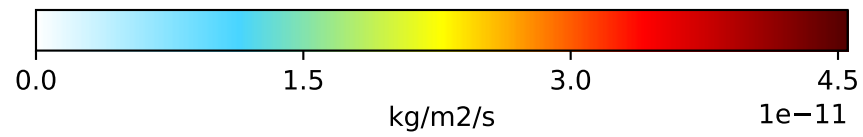
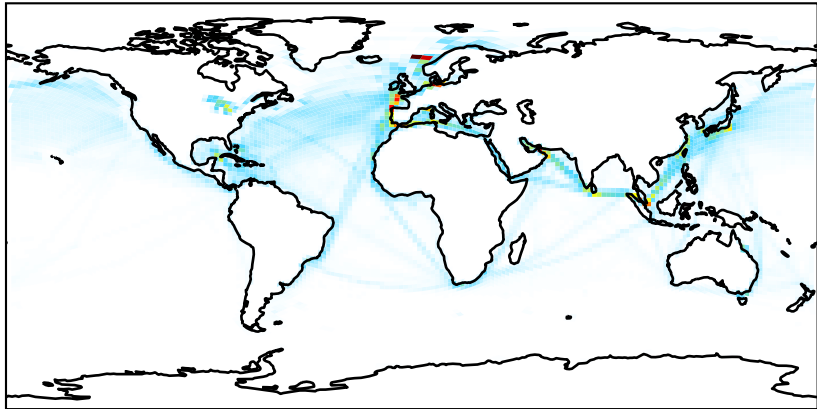
Ratio
Dev/Ref, Fixed Range



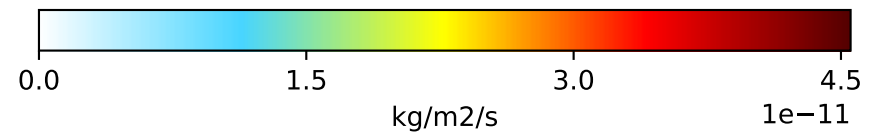
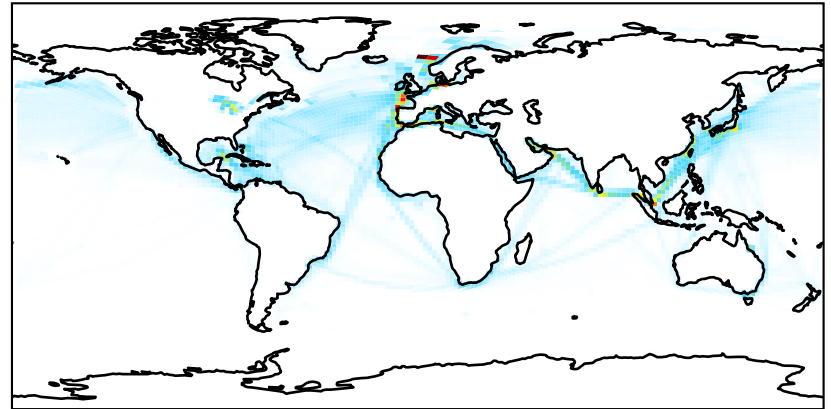
Undefined throughout domain
unitless

EmisHNO3_Ship (Apr2019)

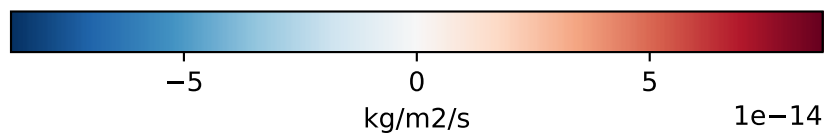
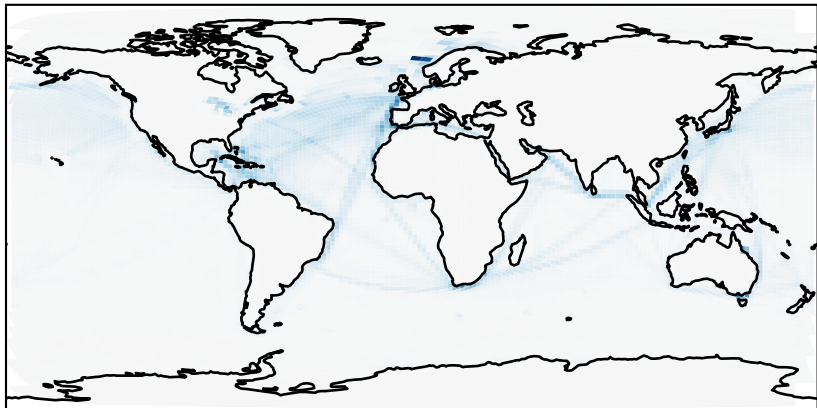
GCHP_13.0.0-beta.1 (Ref)
c48



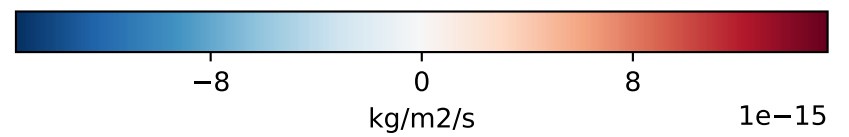
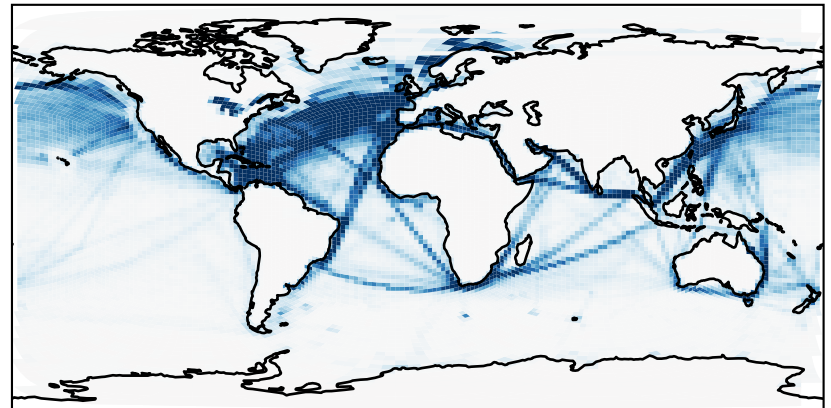
GCHP_13.0.0-rc.0 (Dev)
c48



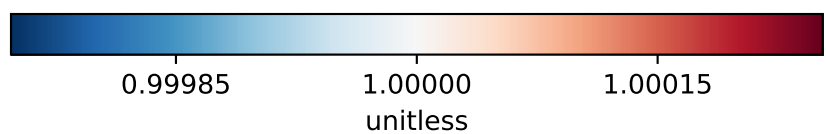
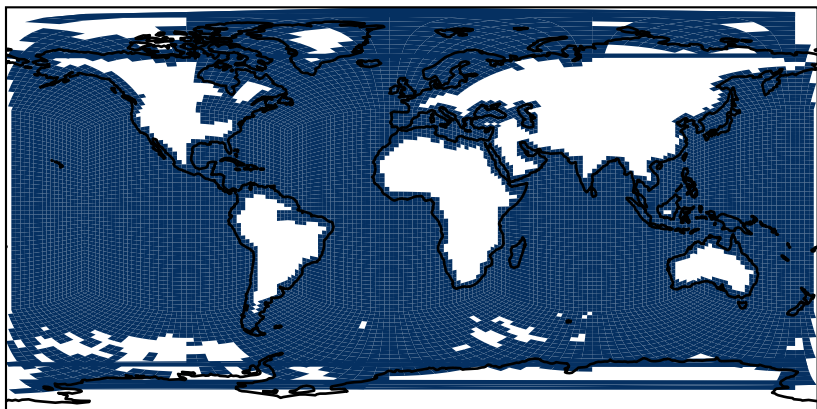
Difference
Dev - Ref, Dynamic Range



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



Ratio
Dev/Ref, Dynamic Range

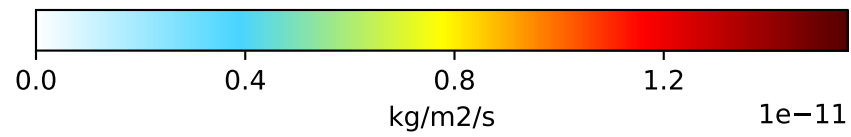
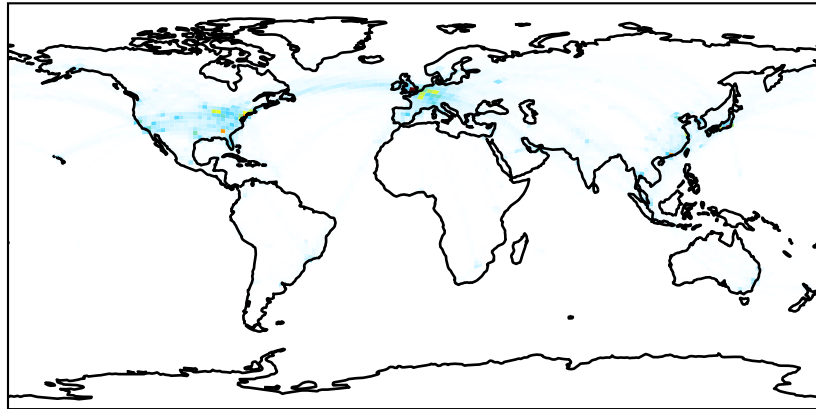


Ratio
Dev/Ref, Fixed Range

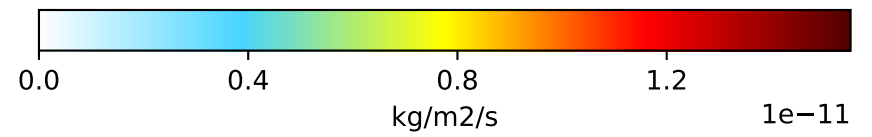
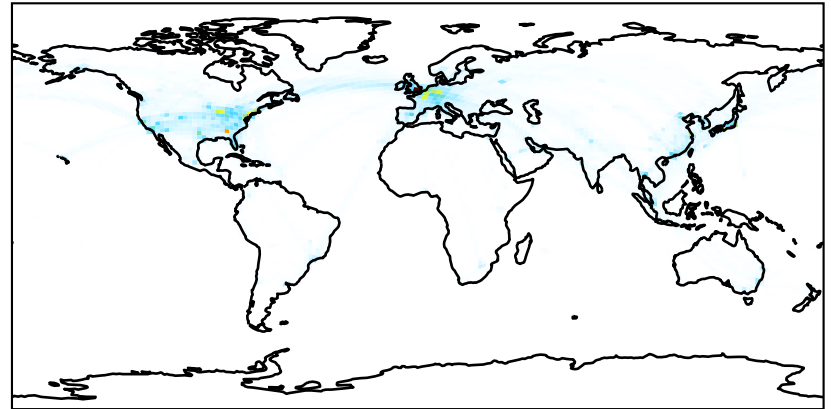


EmisNO_Aircraft (Apr2019)

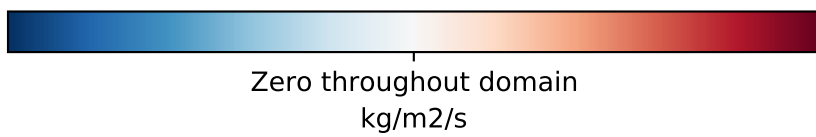
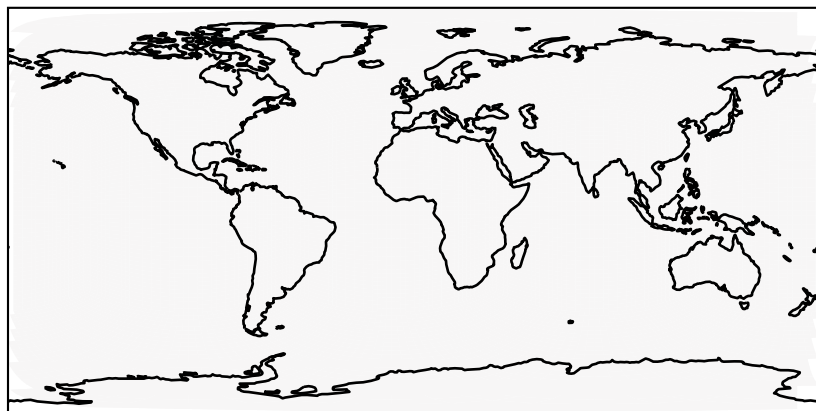
GCHP_13.0.0-beta.1 (Ref)
c48



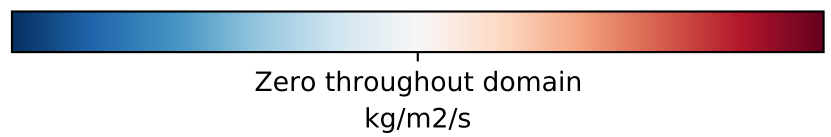
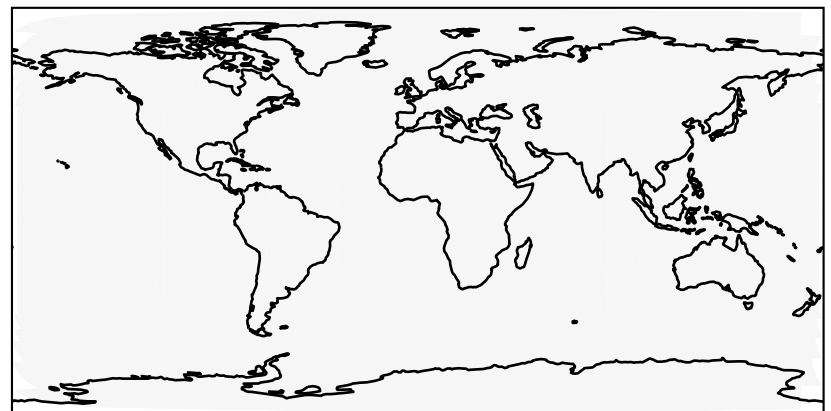
GCHP_13.0.0-rc.0 (Dev)
c48



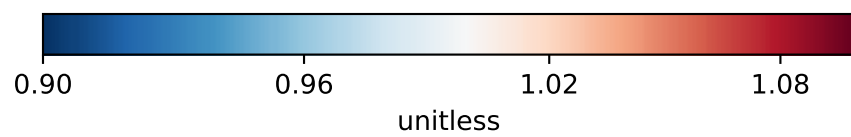
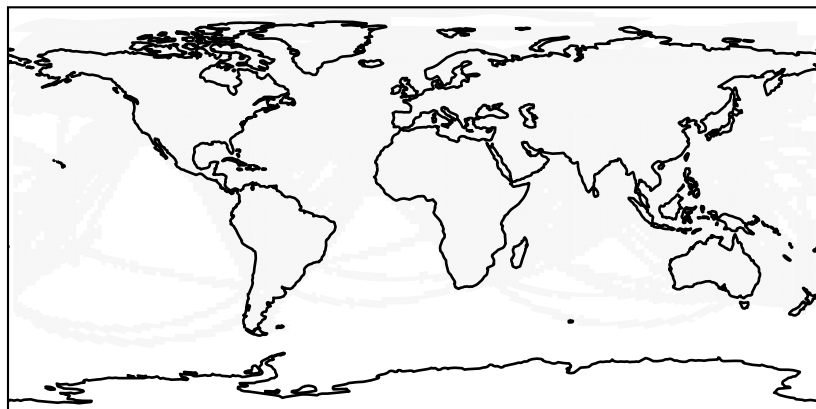
Difference
Dev - Ref, Dynamic Range



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



Ratio
Dev/Ref, Dynamic Range

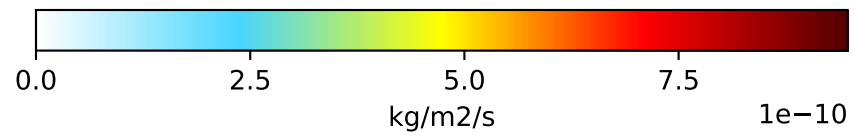
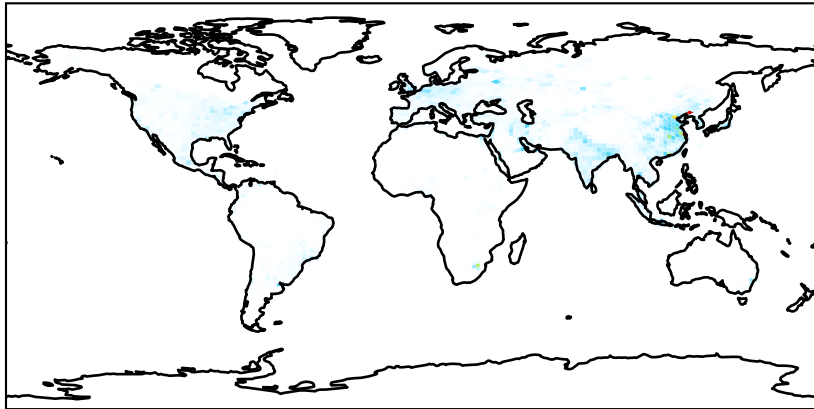


Ratio
Dev/Ref, Fixed Range

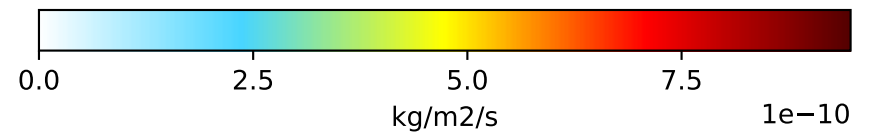
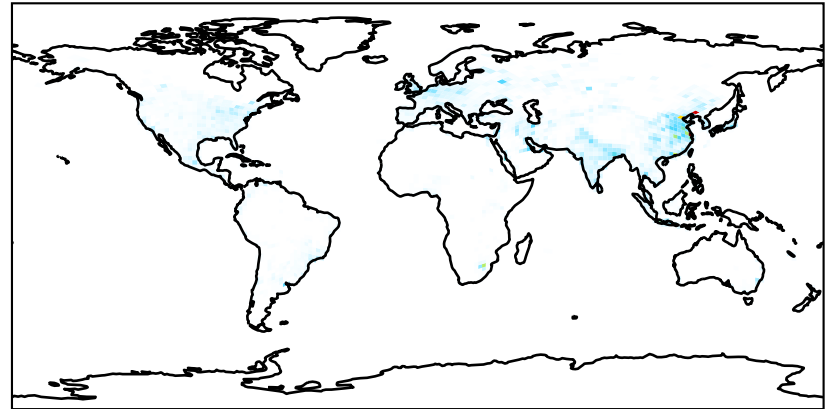


EmisNO_Anthro (Apr2019)

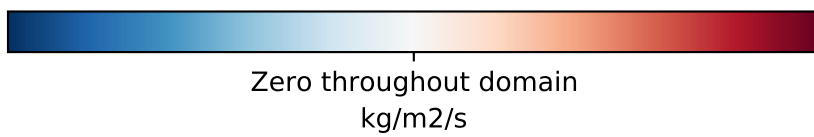
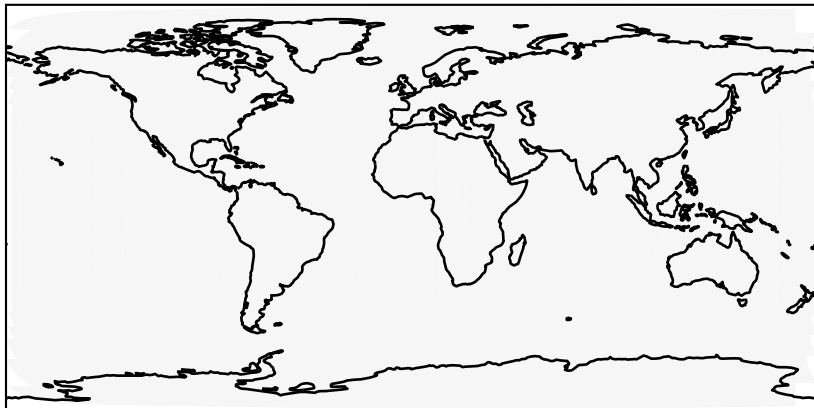
GCHP_13.0.0-beta.1 (Ref)
c48



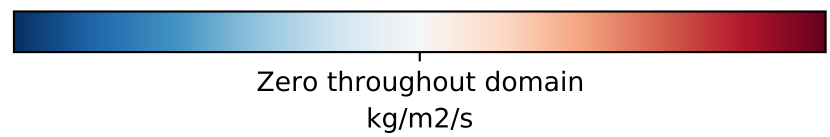
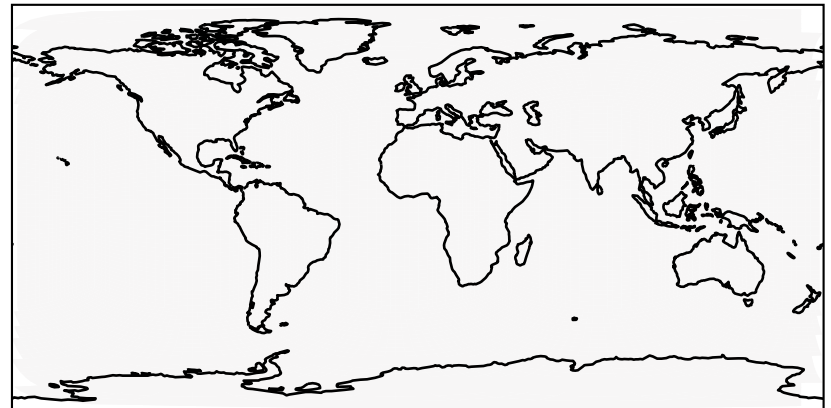
GCHP_13.0.0-rc.0 (Dev)
c48



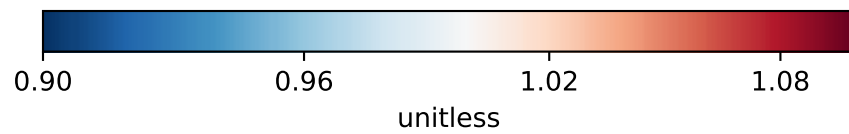
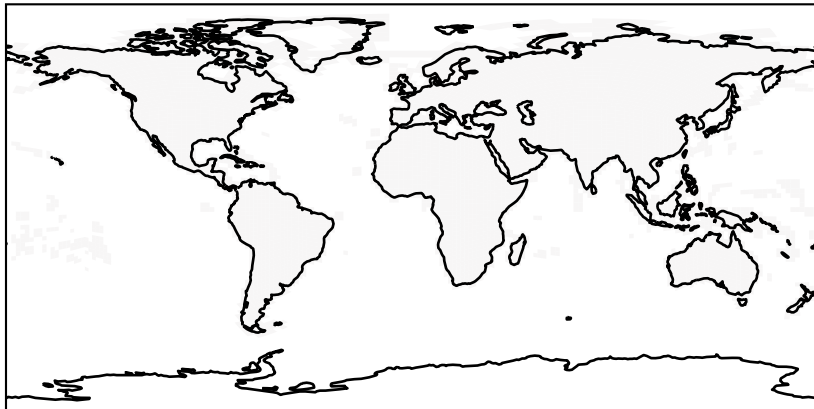
Difference
Dev - Ref, Dynamic Range



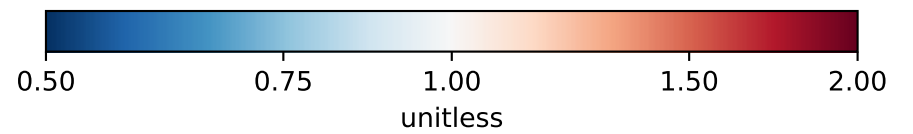
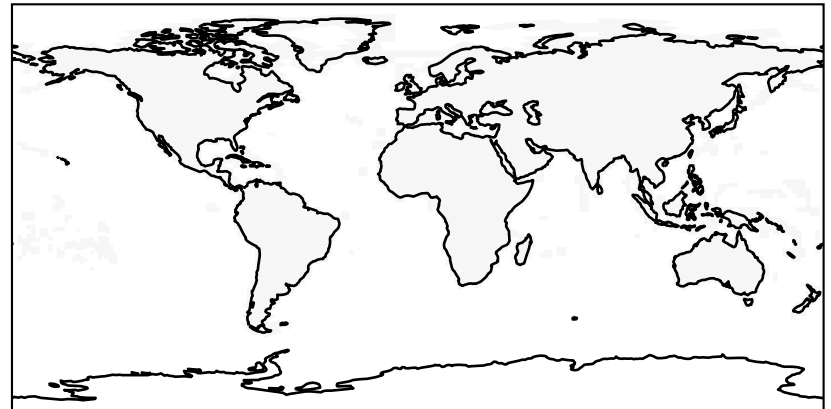
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

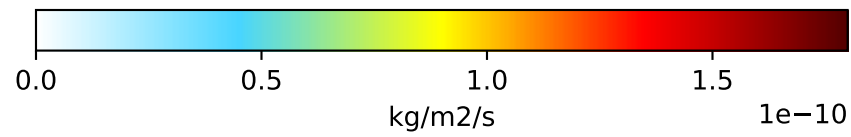
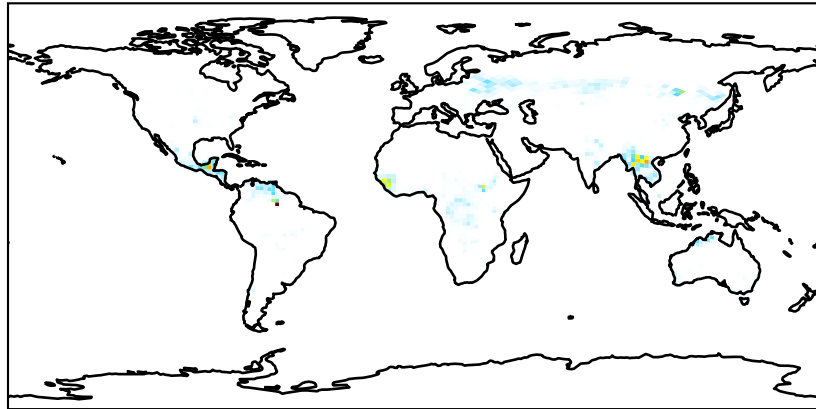


Ratio
Dev/Ref, Fixed Range

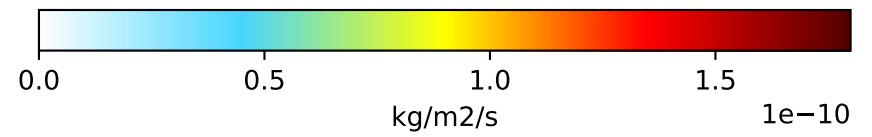
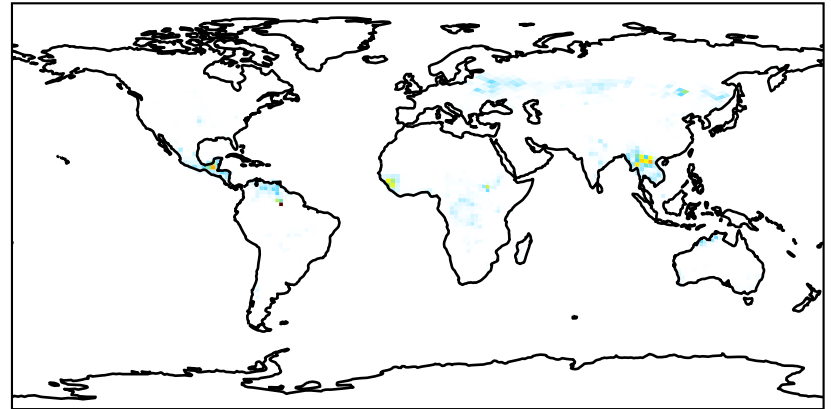


EmisNO_BioBurn (Apr2019)

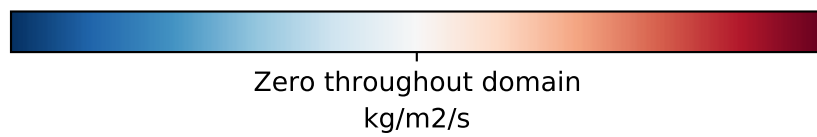
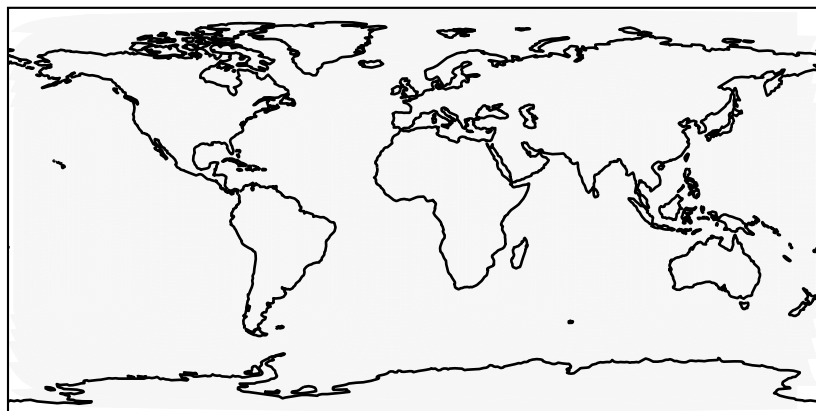
GCHP_13.0.0-beta.1 (Ref)
c48



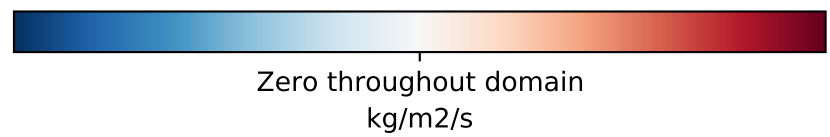
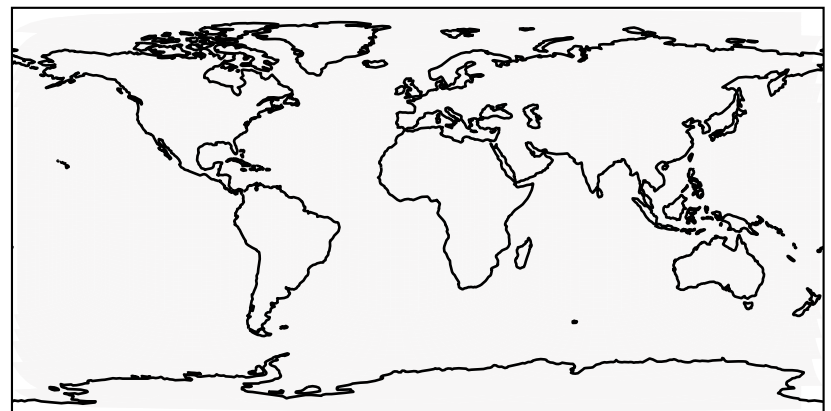
GCHP_13.0.0-rc.0 (Dev)
c48



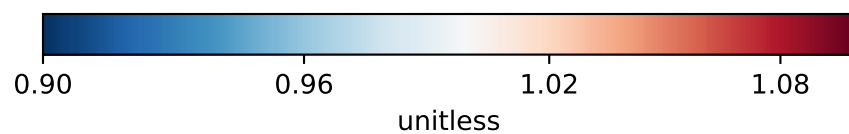
Difference
Dev - Ref, Dynamic Range



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



Ratio
Dev/Ref, Dynamic Range

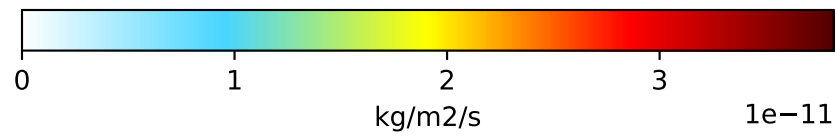
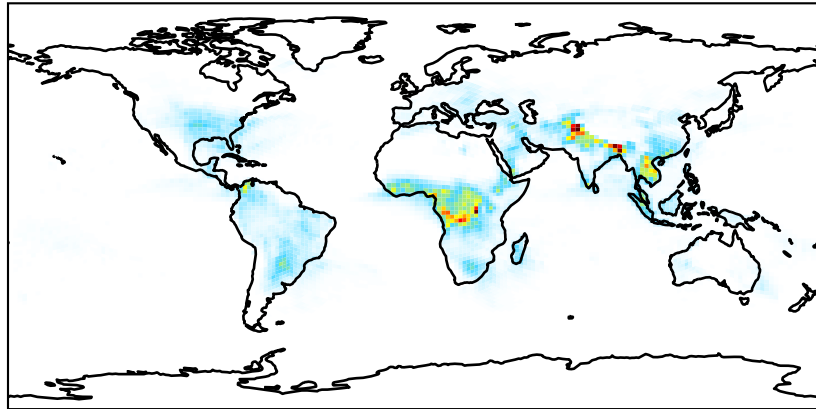


Ratio
Dev/Ref, Fixed Range

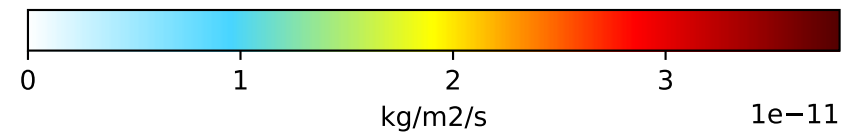
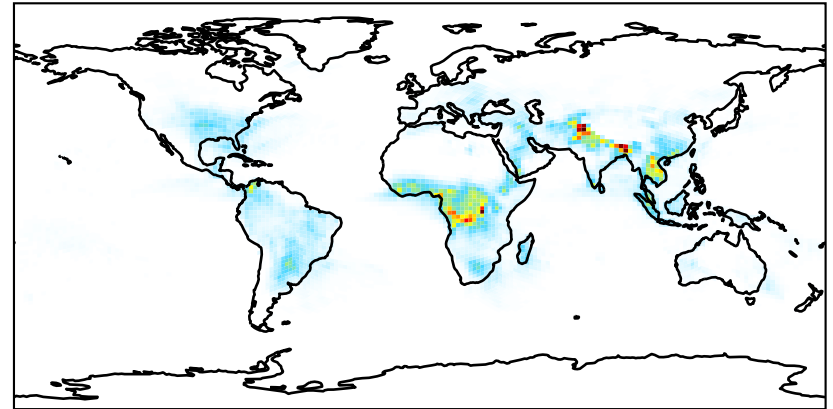


EmisNO_Lightning (Apr2019)

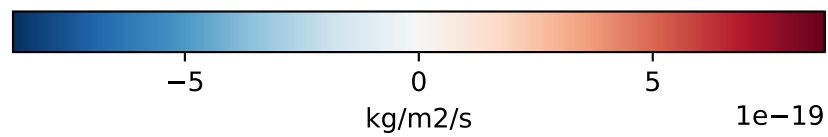
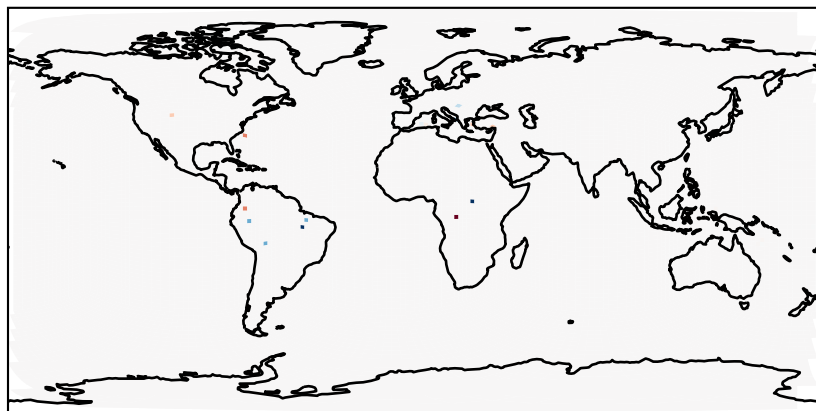
GCHP_13.0.0-beta.1 (Ref)
c48



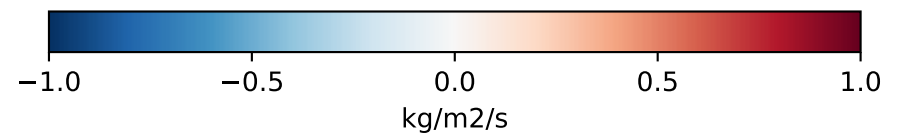
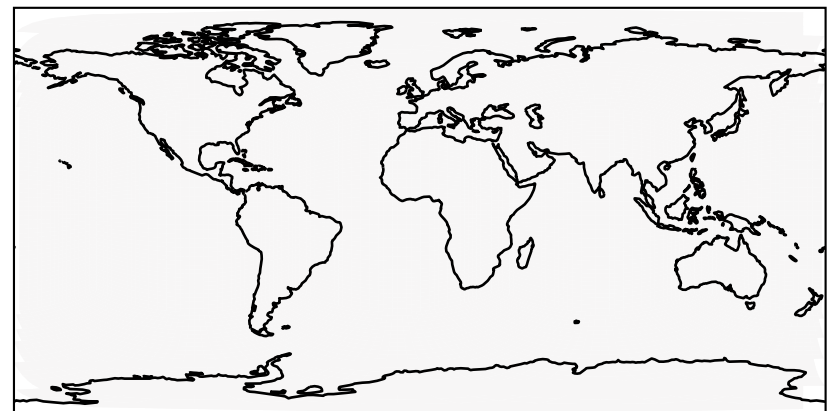
GCHP_13.0.0-rc.0 (Dev)
c48



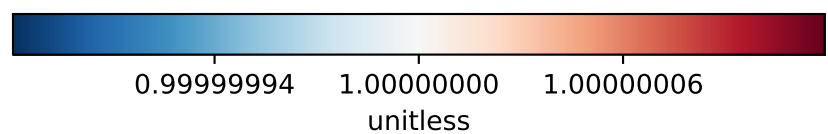
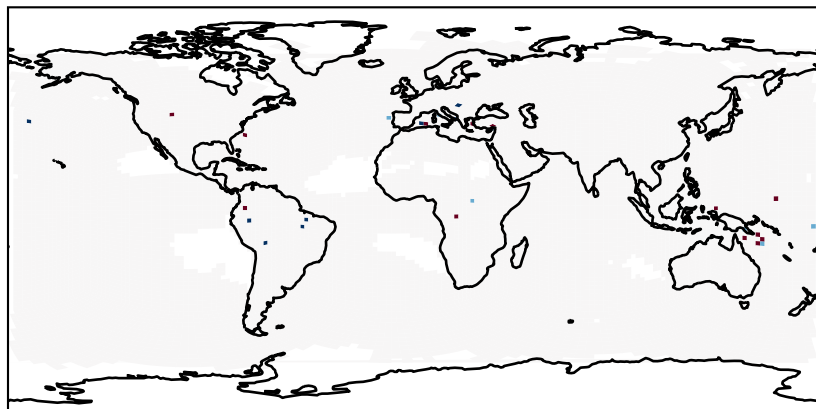
Difference
Dev - Ref, Dynamic Range



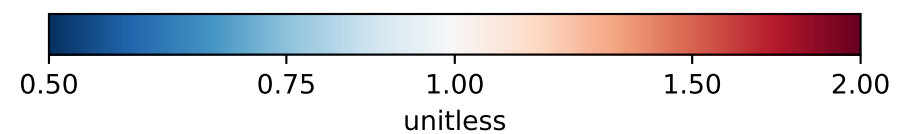
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

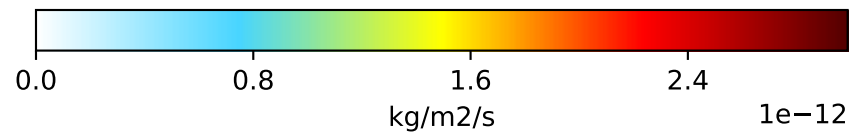
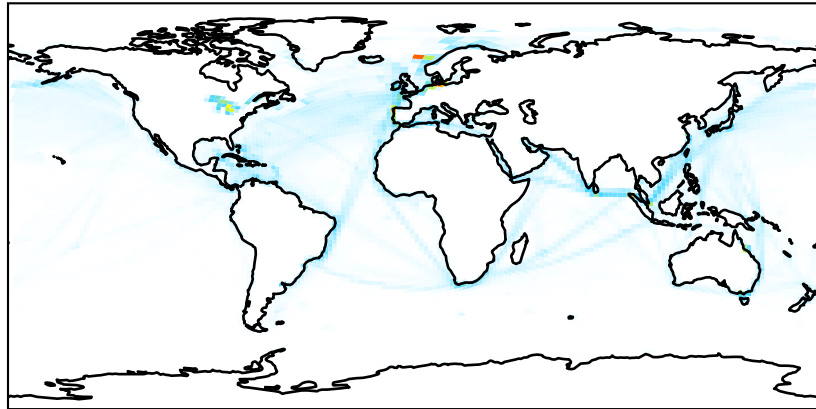


Ratio
Dev/Ref, Fixed Range

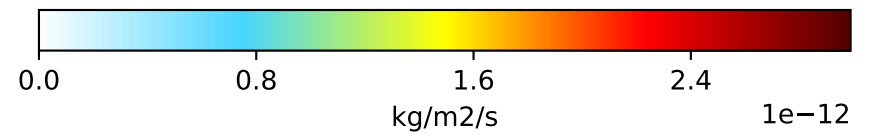
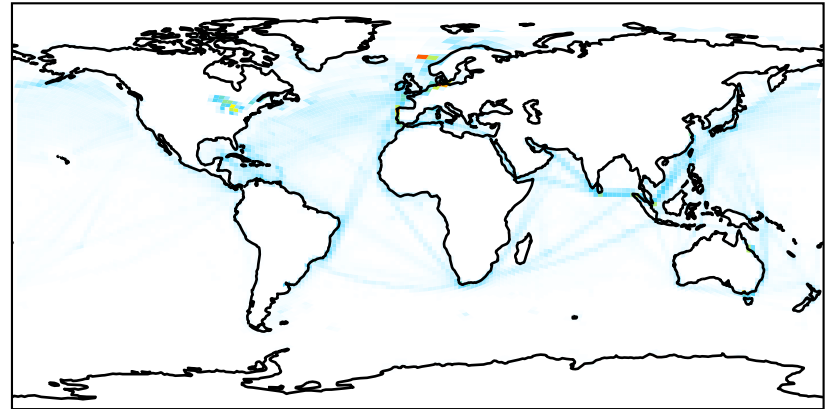


EmisNO_Ship (Apr2019)

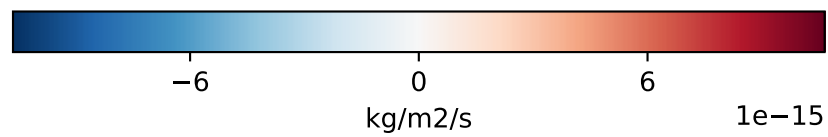
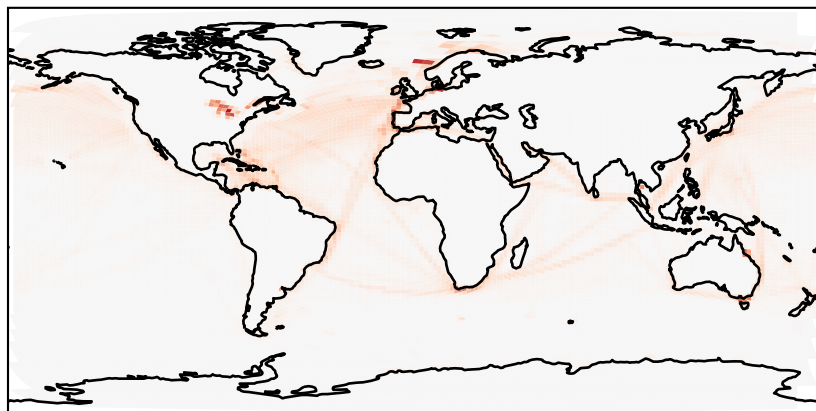
GCHP_13.0.0-beta.1 (Ref)
c48



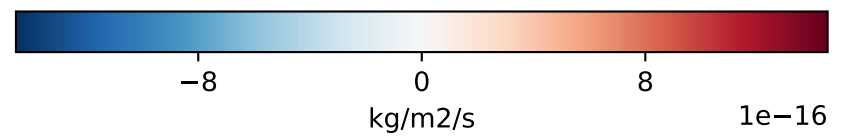
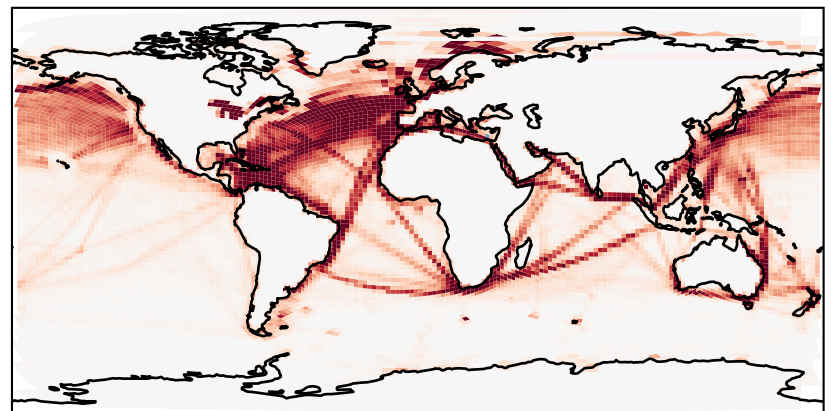
GCHP_13.0.0-rc.0 (Dev)
c48



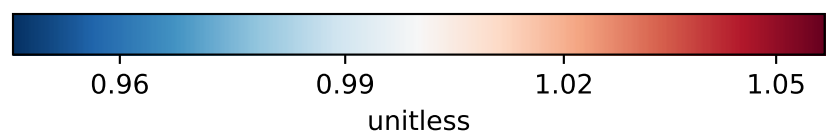
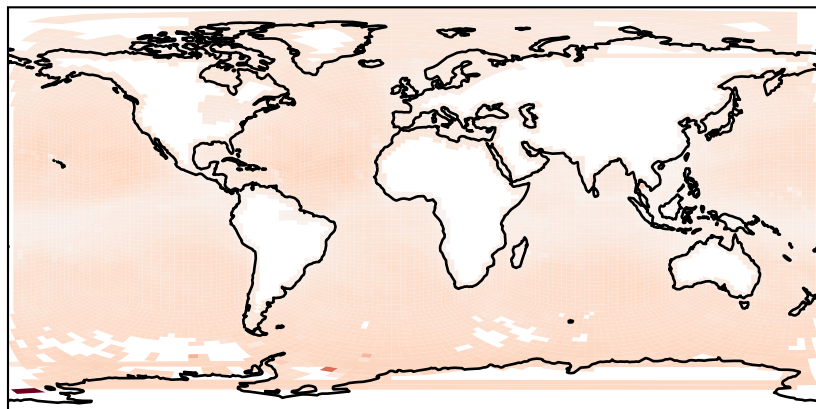
Difference
Dev - Ref, Dynamic Range



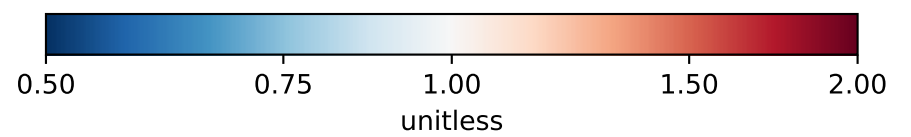
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

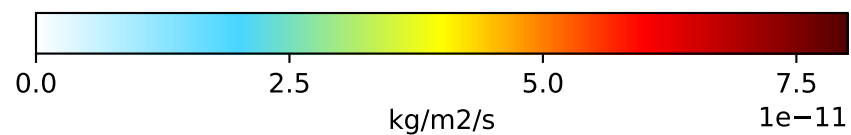
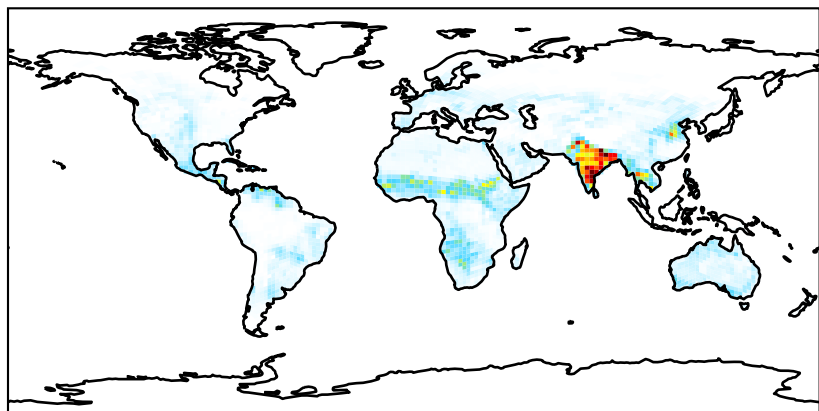


Ratio
Dev/Ref, Fixed Range

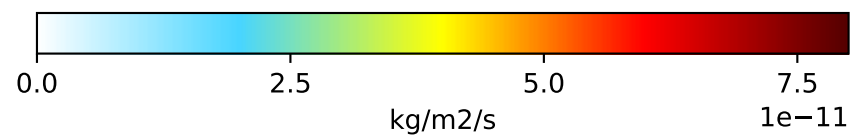
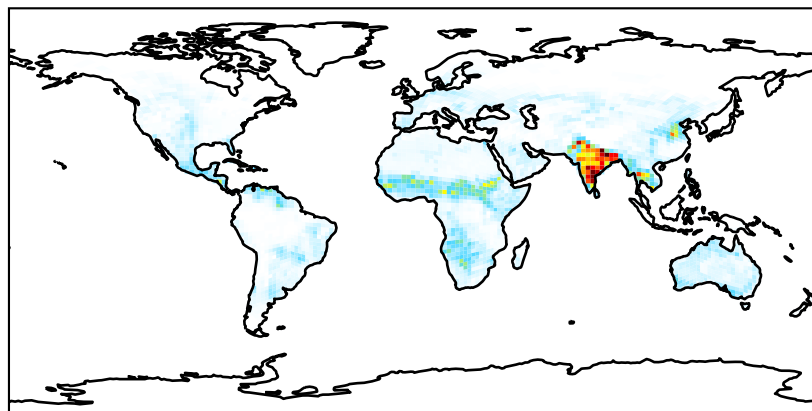


EmisNO_Soil (Apr2019)

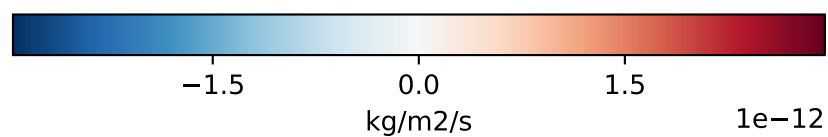
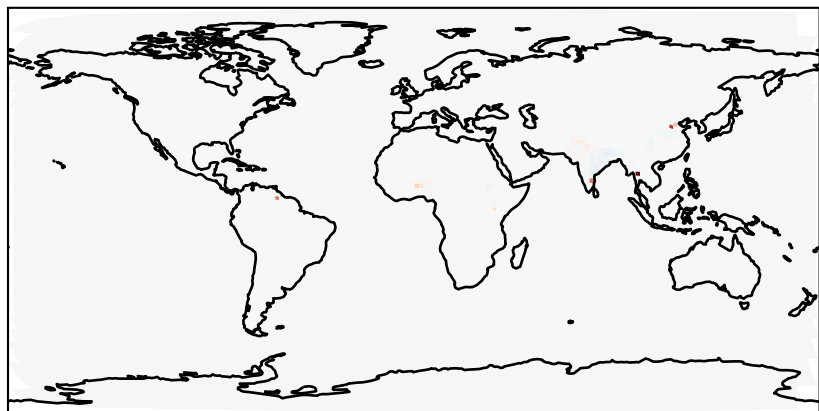
GCHP_13.0.0-beta.1 (Ref)
c48



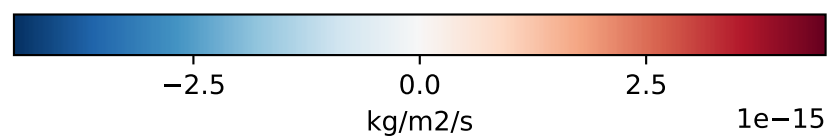
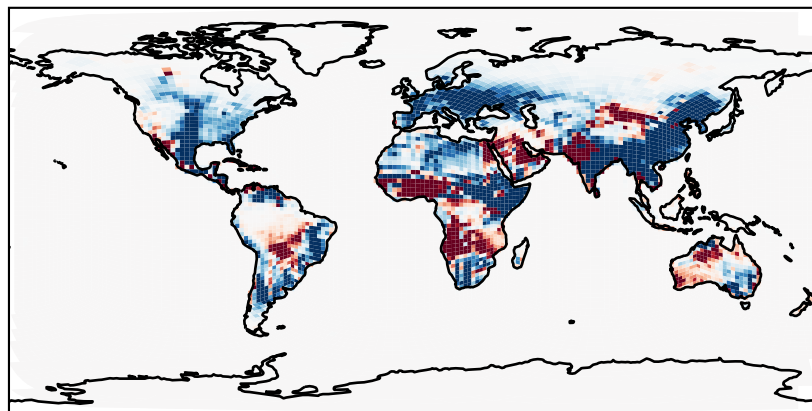
GCHP_13.0.0-rc.0 (Dev)
c48



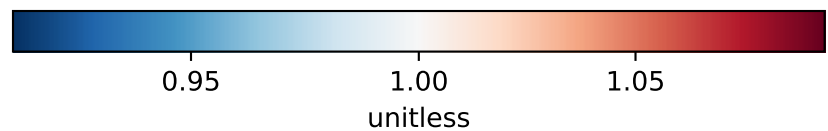
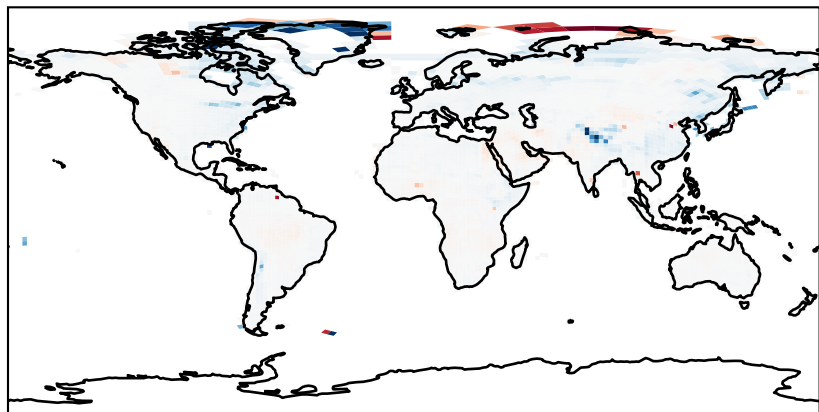
Difference
Dev - Ref, Dynamic Range



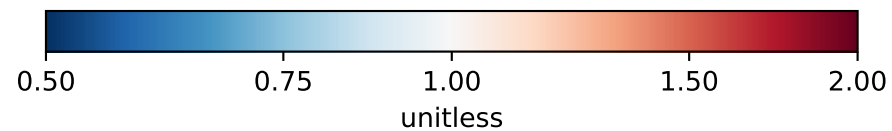
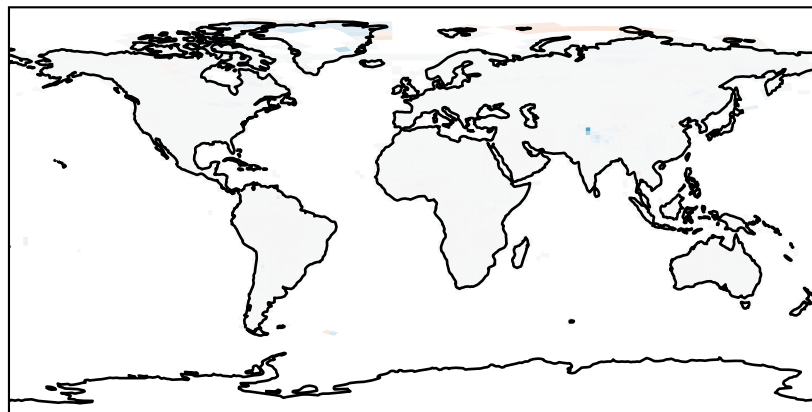
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

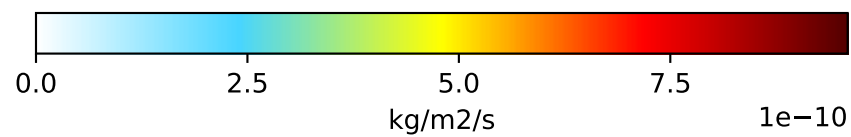
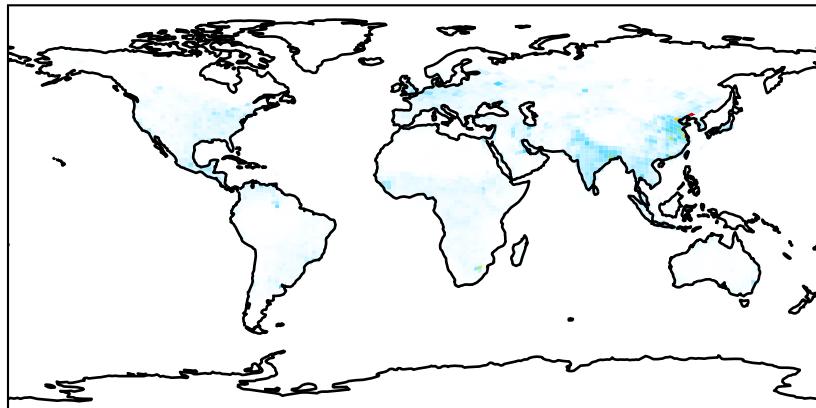


Ratio
Dev/Ref, Fixed Range

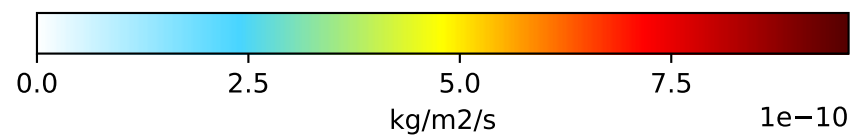
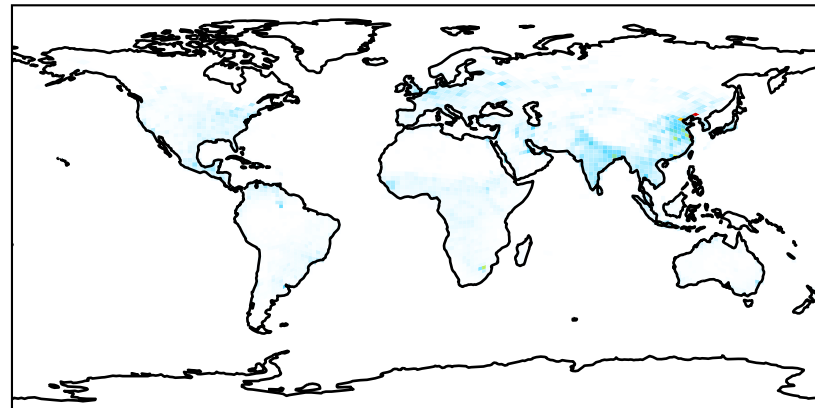


EmisNO_Total (Apr2019)

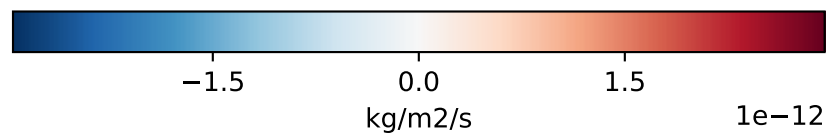
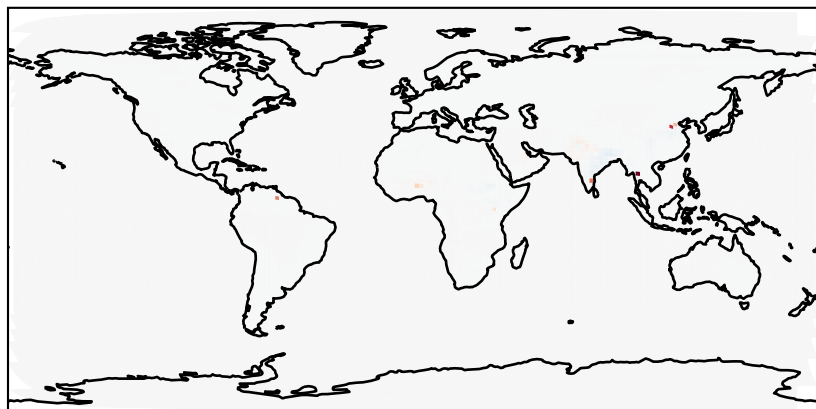
GCHP_13.0.0-beta.1 (Ref)
c48



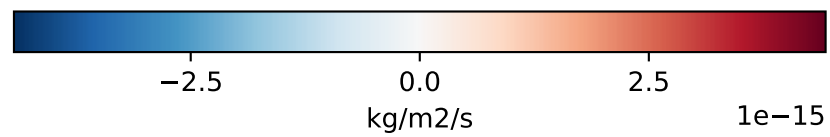
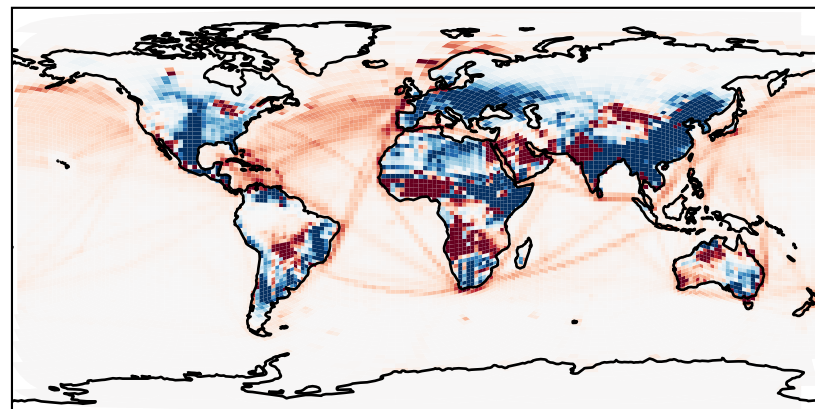
GCHP_13.0.0-rc.0 (Dev)
c48



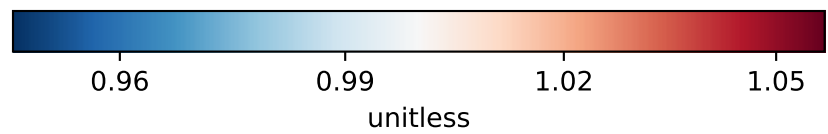
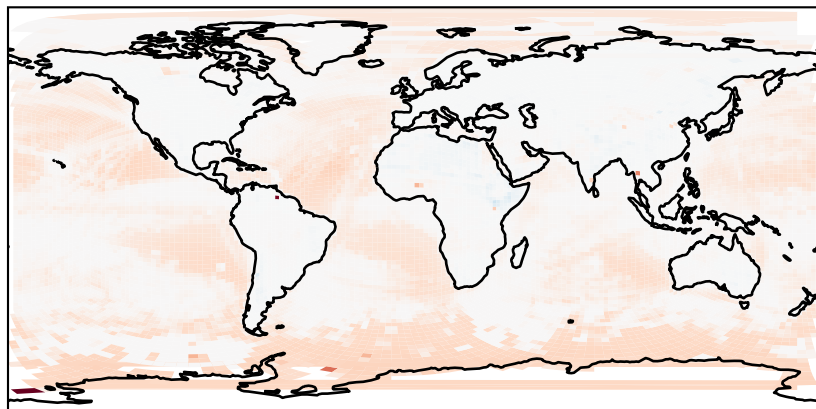
Difference
Dev - Ref, Dynamic Range



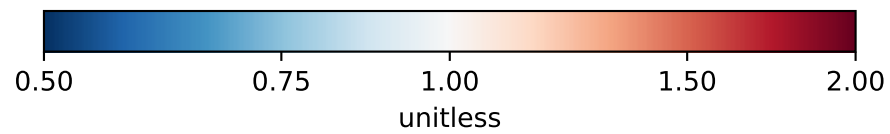
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

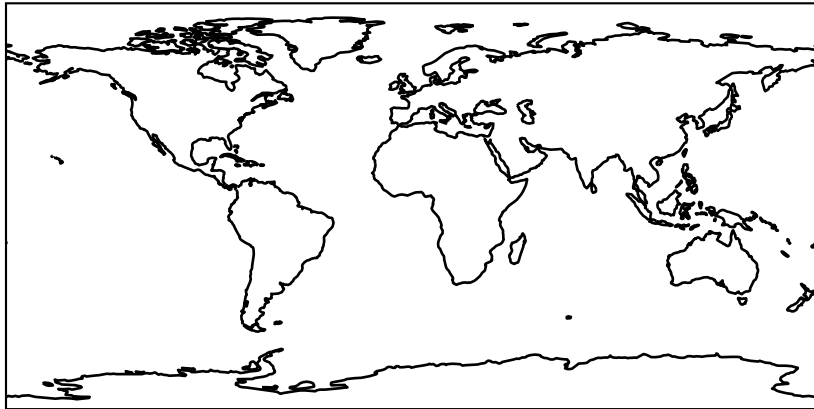


Ratio
Dev/Ref, Fixed Range



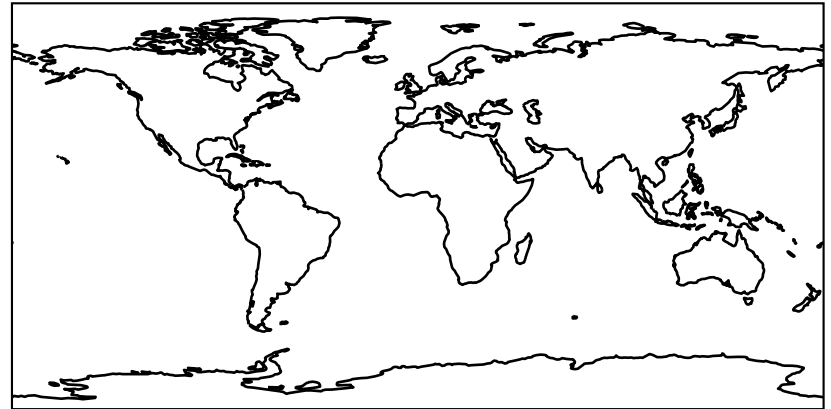
EmisNO2_Anthro (Apr2019)

GCHP_13.0.0-beta.1 (Ref)
c48



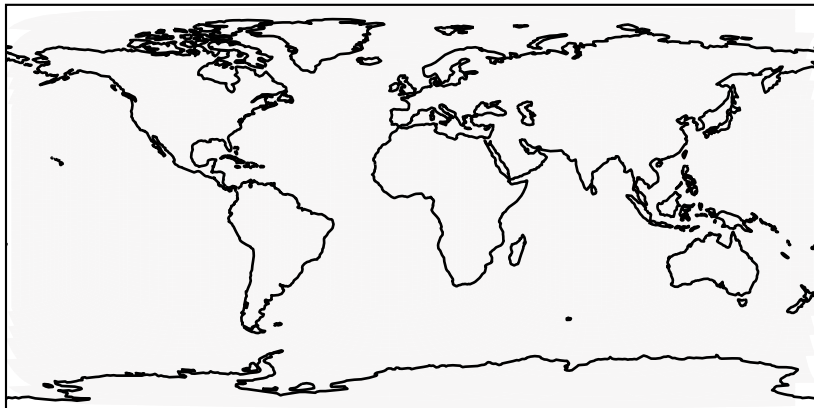
Zero throughout domain
kg/m2/s

GCHP_13.0.0-rc.0 (Dev)
c48



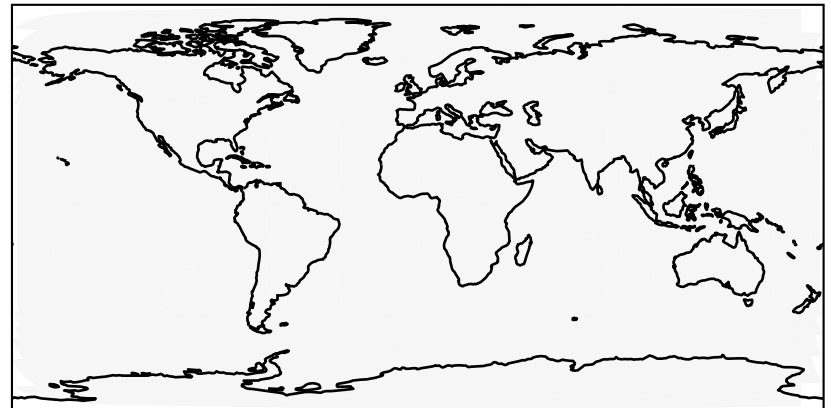
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



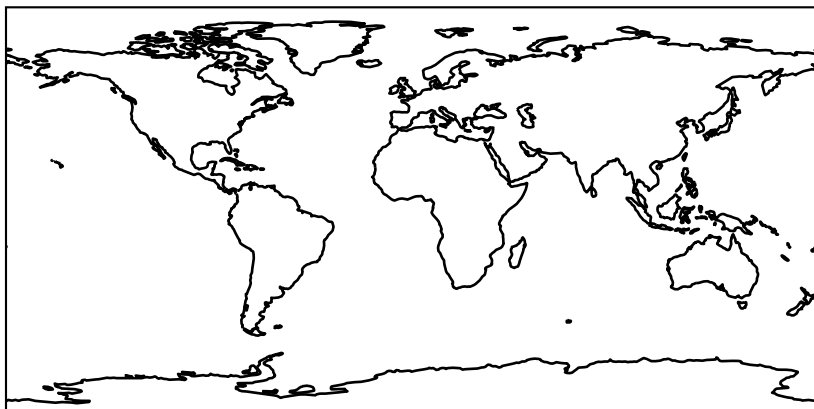
Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

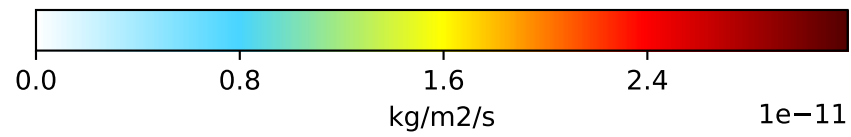
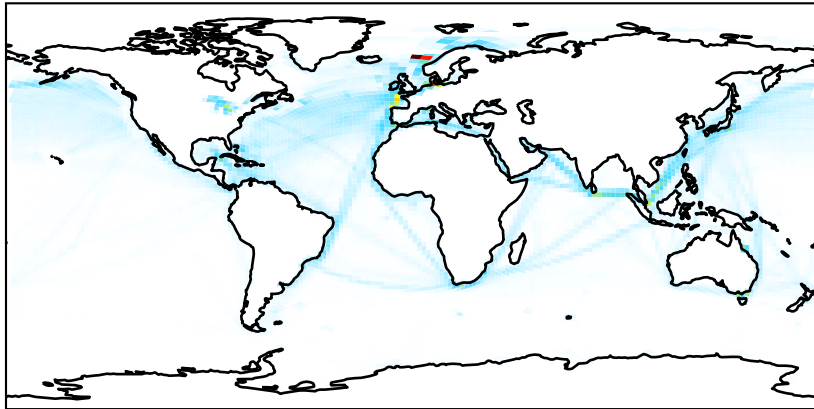
Ratio
Dev/Ref, Fixed Range



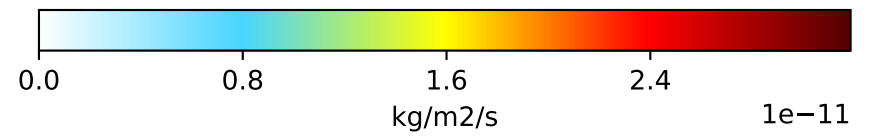
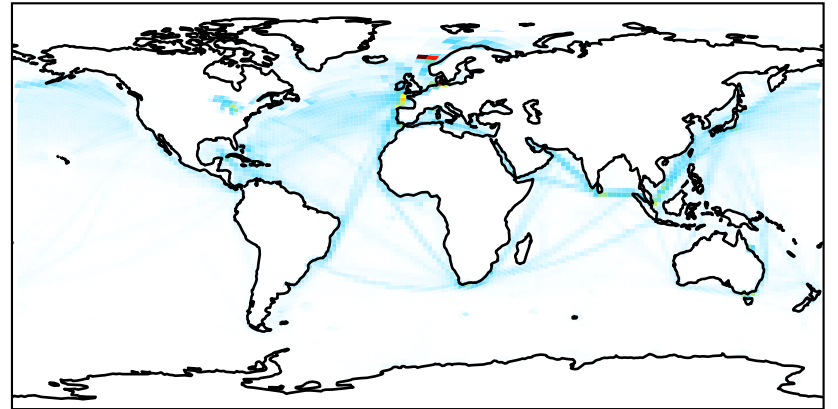
Undefined throughout domain
unitless

EmisNO2_Ship (Apr2019)

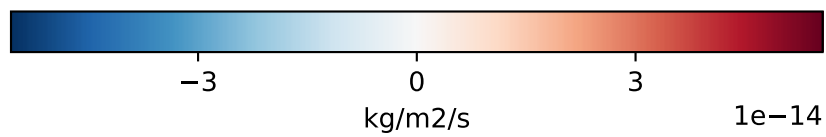
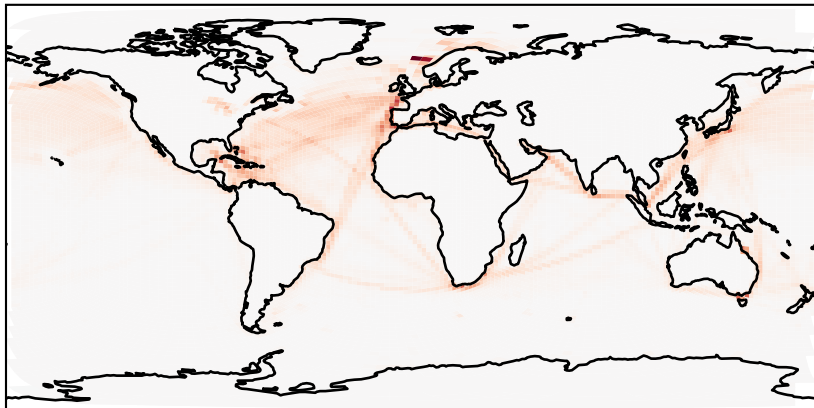
GCHP_13.0.0-beta.1 (Ref)
c48



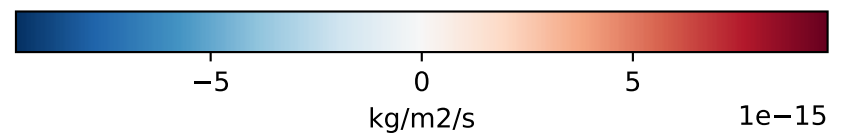
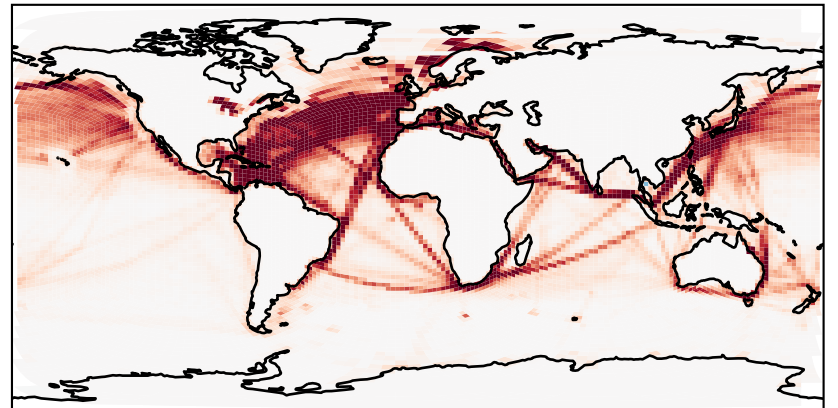
GCHP_13.0.0-rc.0 (Dev)
c48



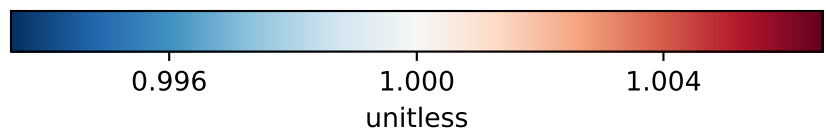
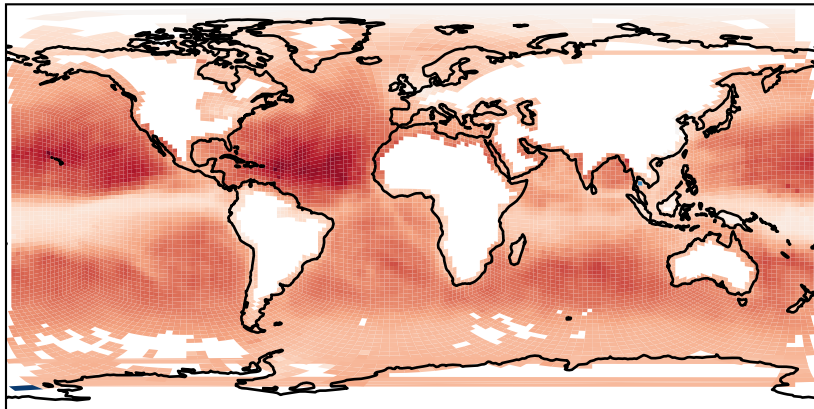
Difference
Dev - Ref, Dynamic Range



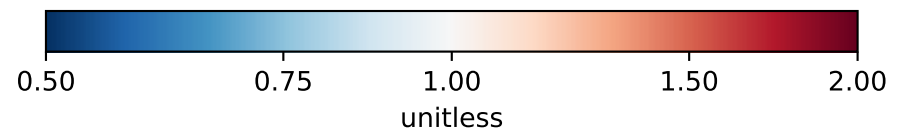
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

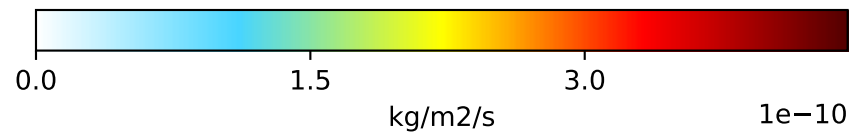
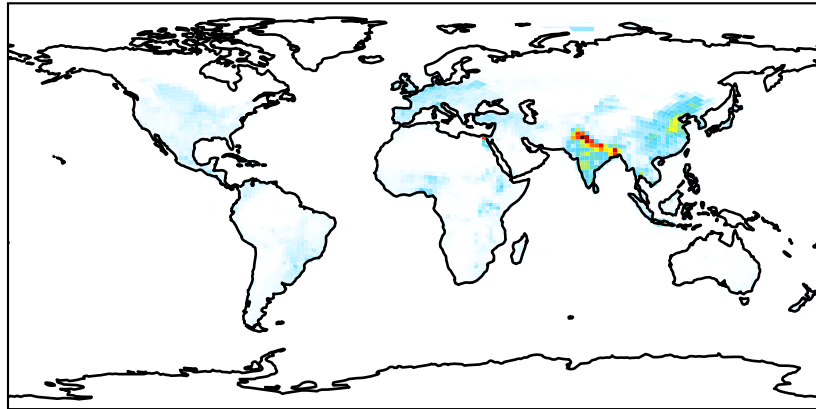


Ratio
Dev/Ref, Fixed Range

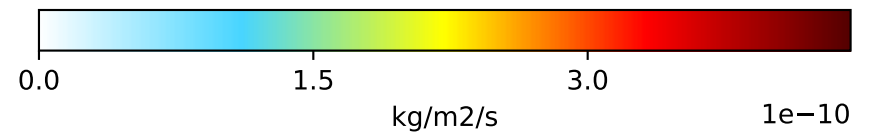
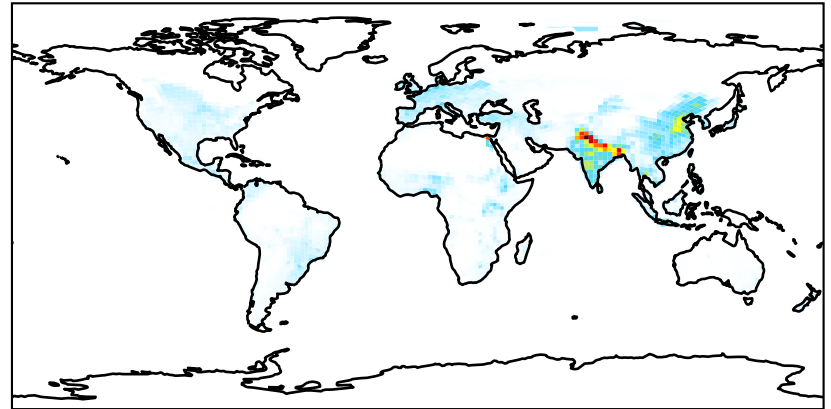


EmisNH3_Anthro (Apr2019)

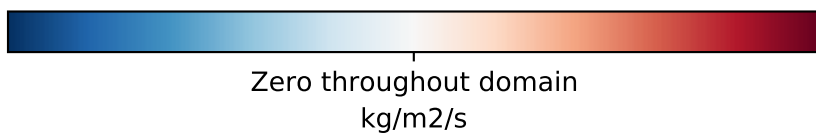
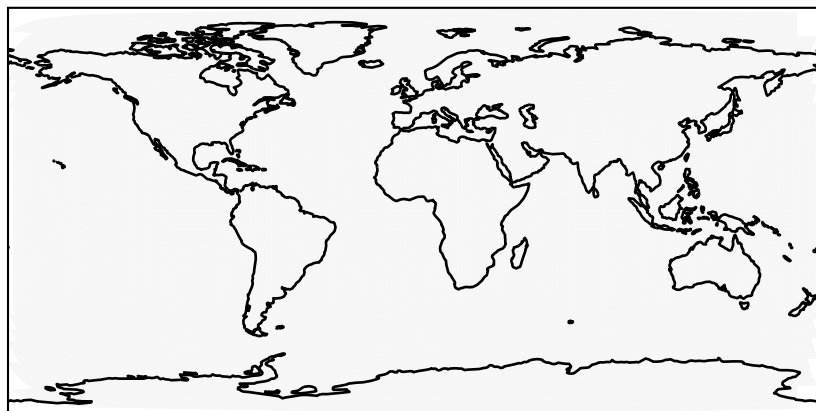
GCHP_13.0.0-beta.1 (Ref)
c48



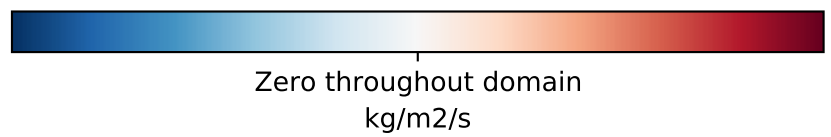
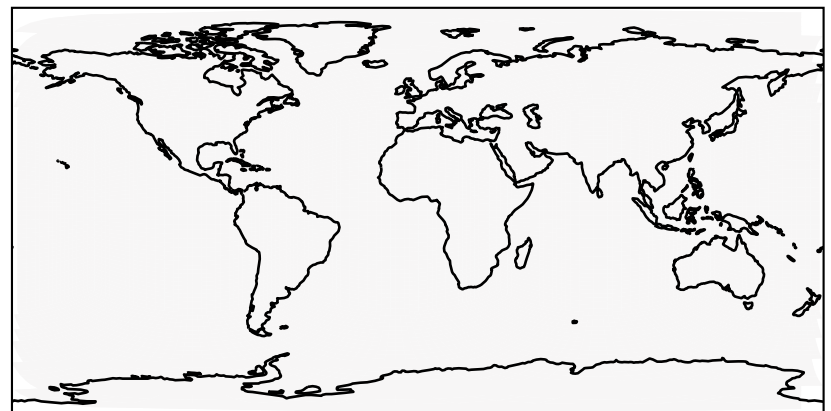
GCHP_13.0.0-rc.0 (Dev)
c48



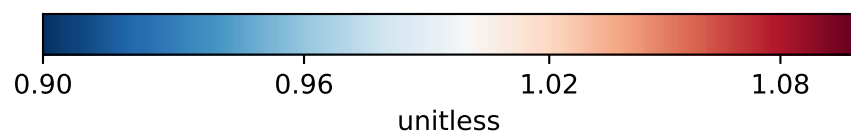
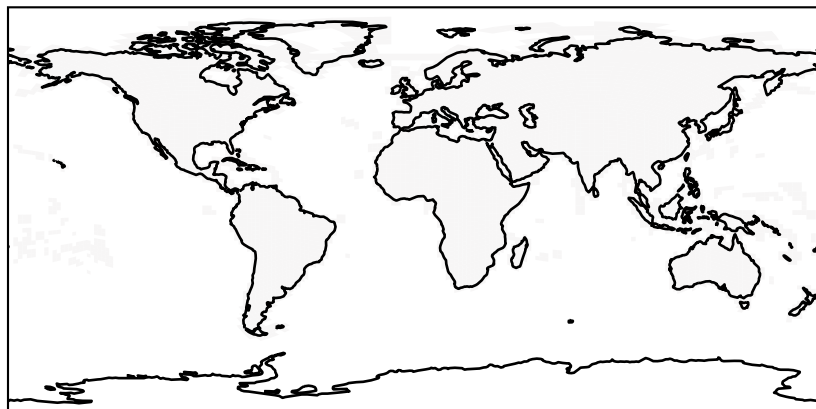
Difference
Dev - Ref, Dynamic Range



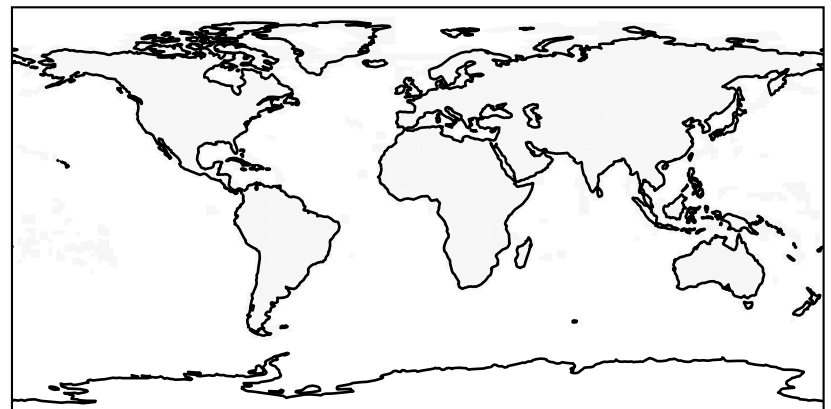
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

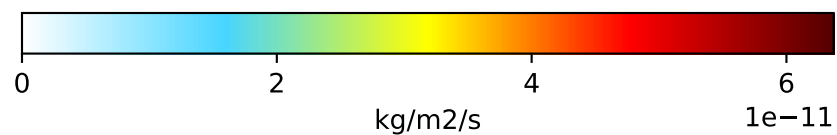
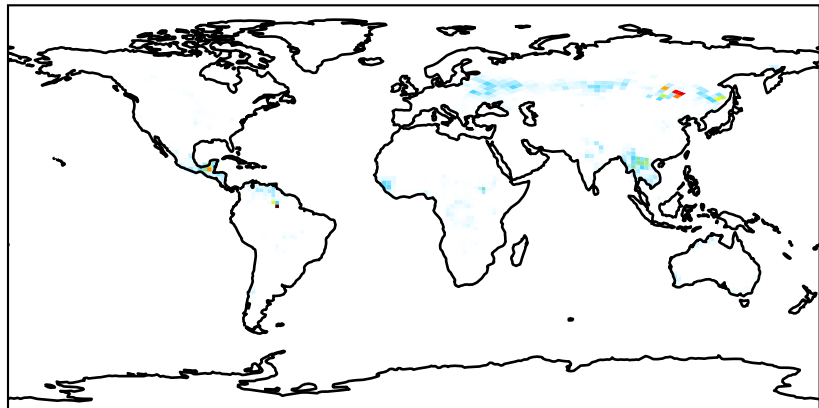


Ratio
Dev/Ref, Fixed Range

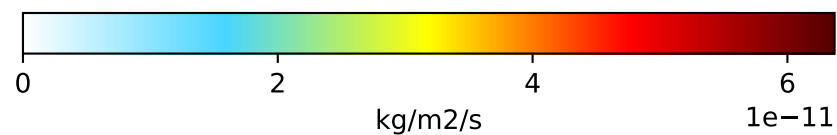
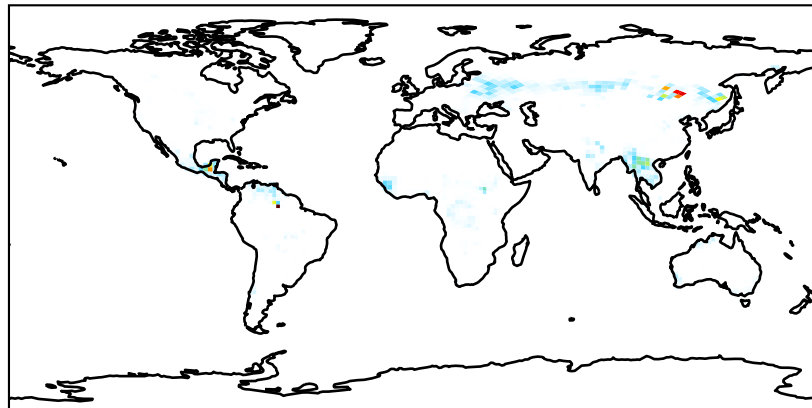


EmisNH3_BioBurn (Apr2019)

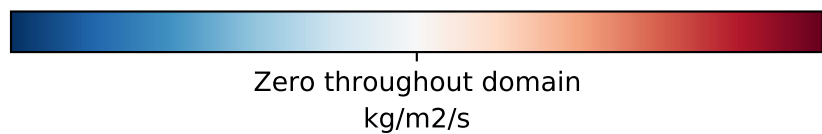
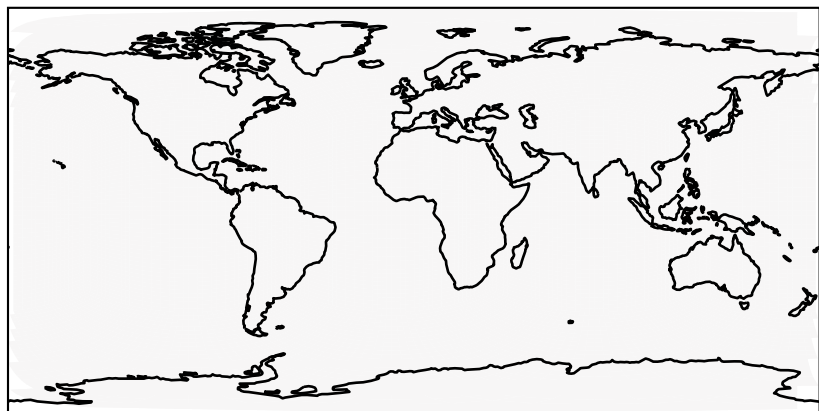
GCHP_13.0.0-beta.1 (Ref)
c48



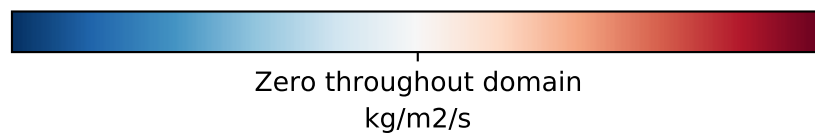
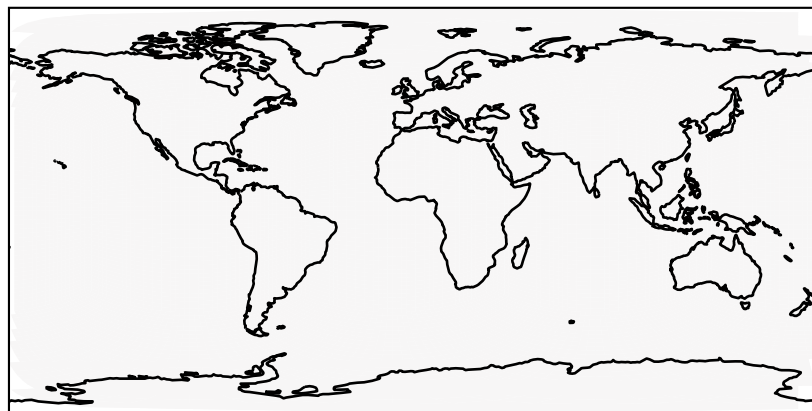
GCHP_13.0.0-rc.0 (Dev)
c48



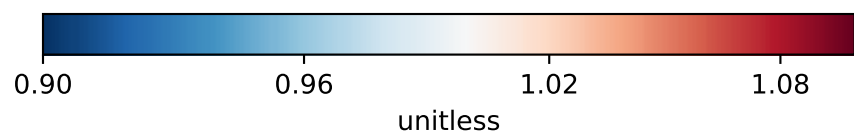
Difference
Dev - Ref, Dynamic Range



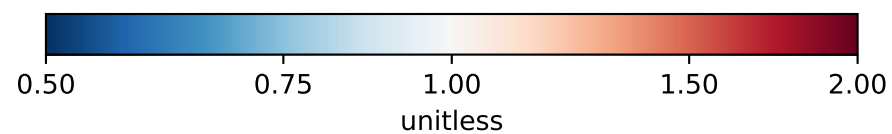
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

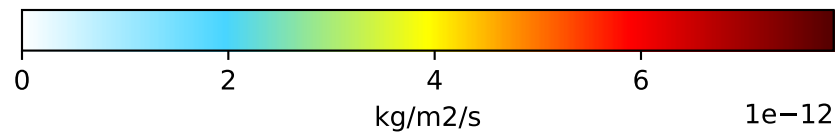
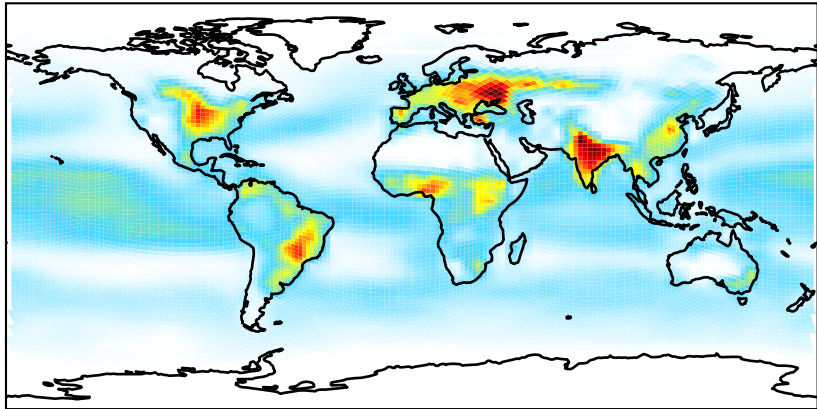


Ratio
Dev/Ref, Fixed Range

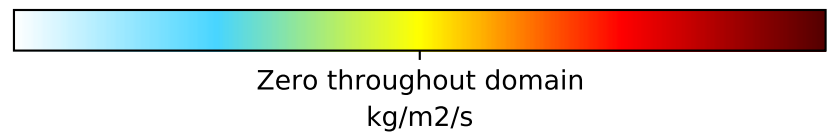
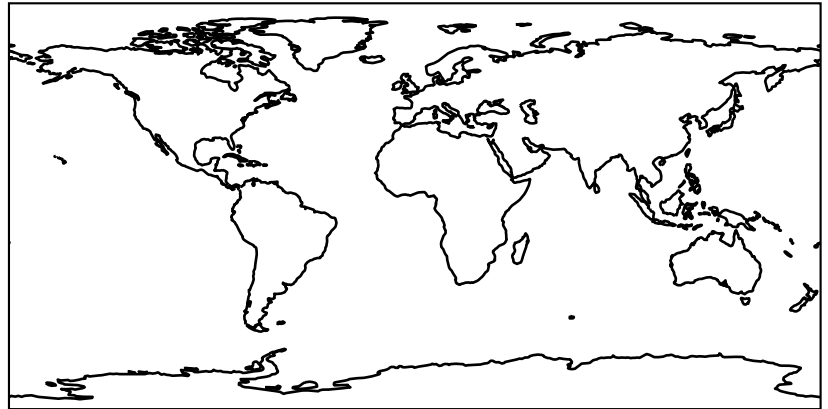


EmisNH3_Natural (Apr2019)

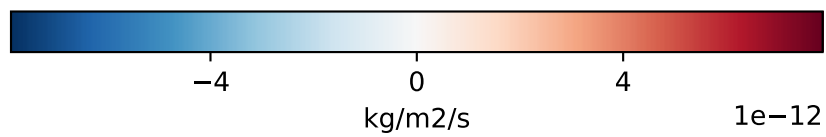
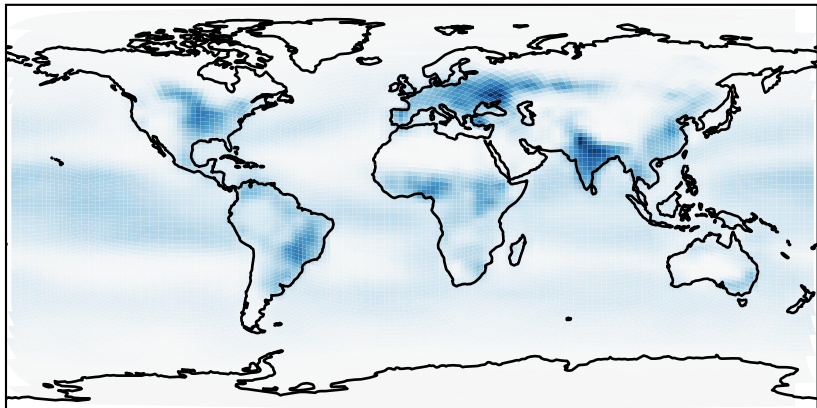
GCHP_13.0.0-beta.1 (Ref)
c48



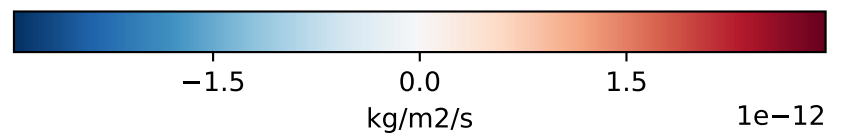
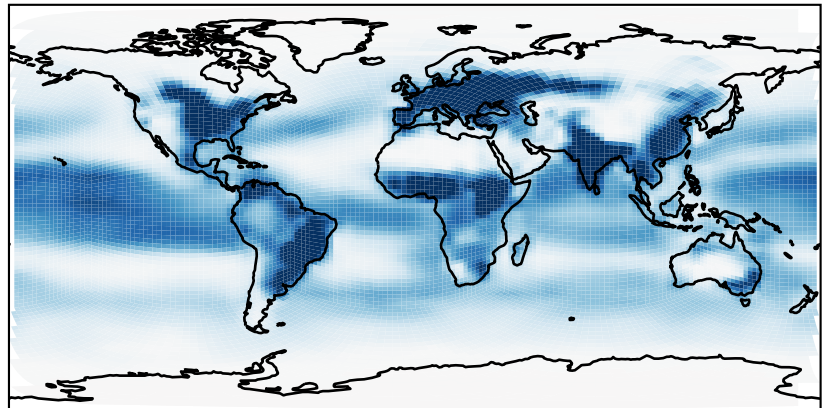
GCHP_13.0.0-rc.0 (Dev)
c48



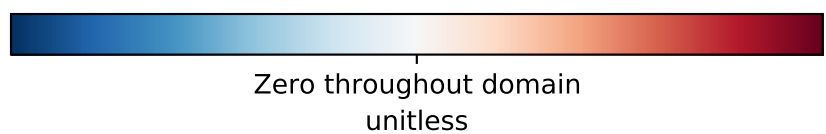
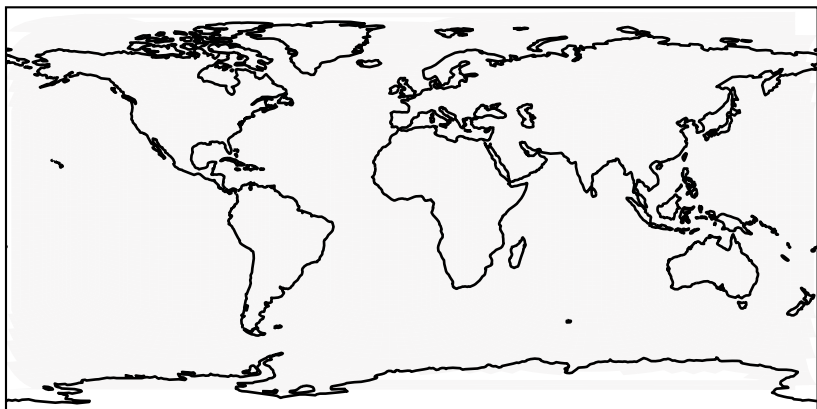
Difference
Dev - Ref, Dynamic Range



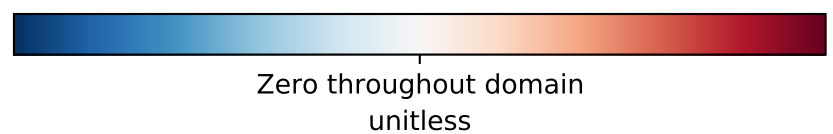
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

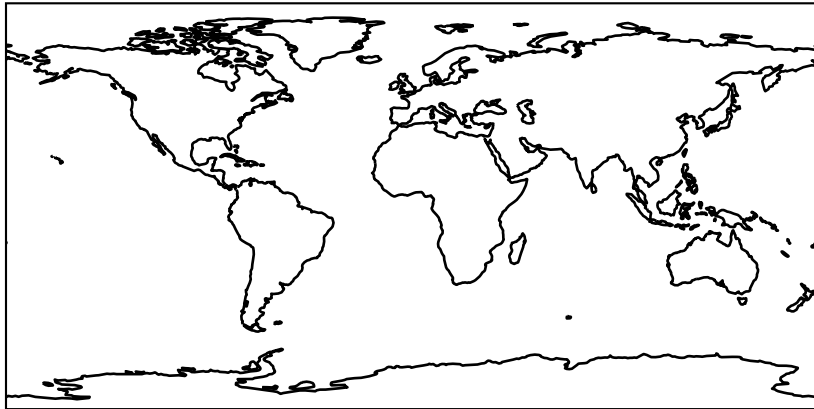


Ratio
Dev/Ref, Fixed Range



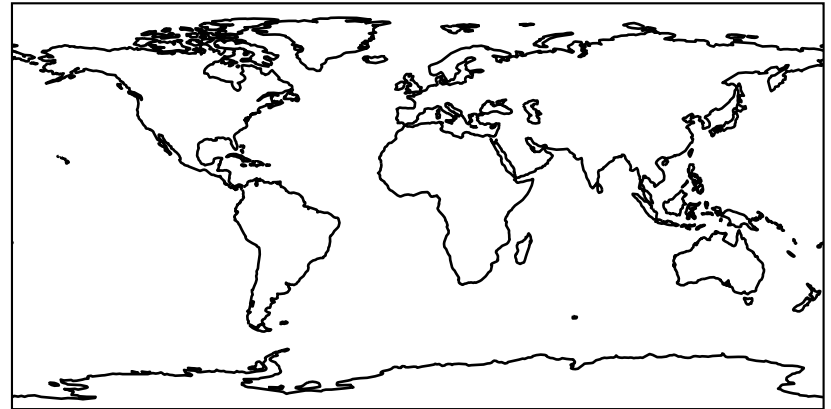
EmisNH3_Seabirds (Apr2019)

GCHP_13.0.0-beta.1 (Ref)
c48



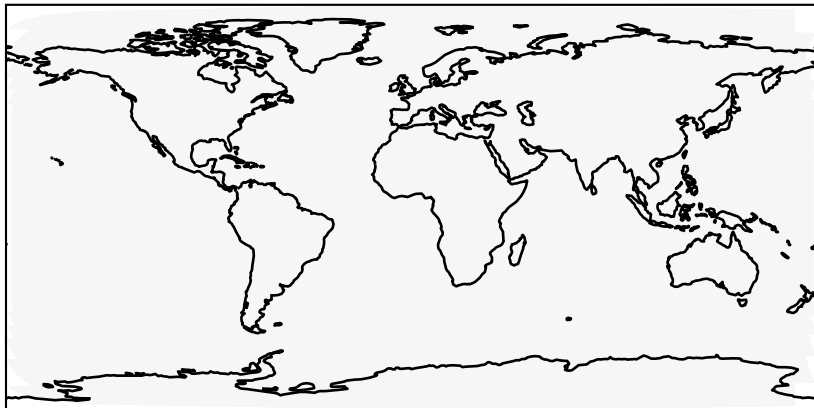
Zero throughout domain
kg/m2/s

GCHP_13.0.0-rc.0 (Dev)
c48



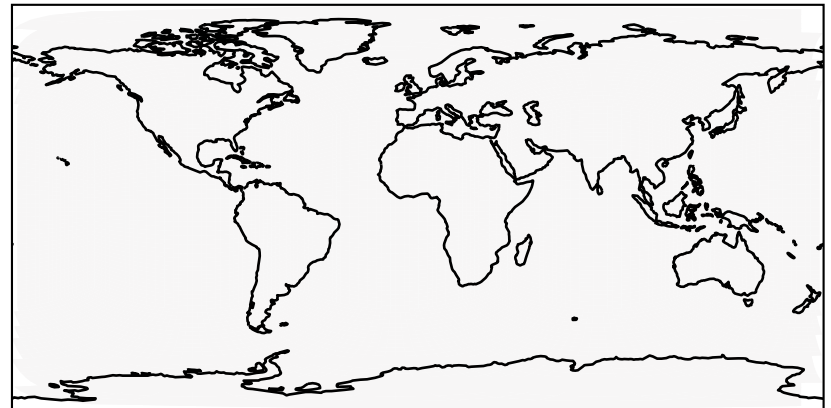
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



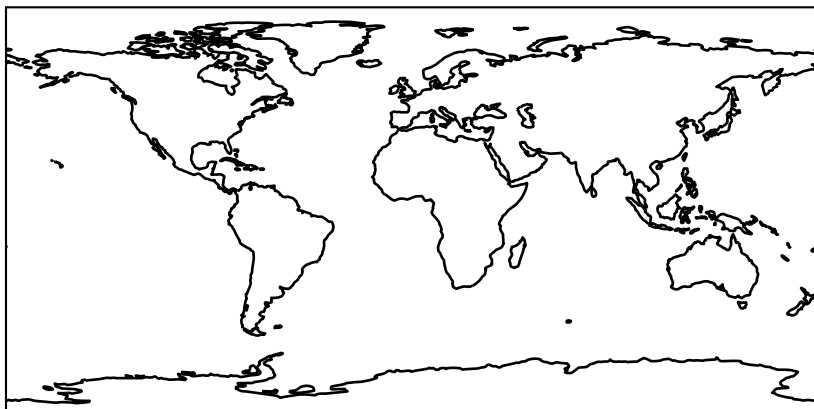
Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

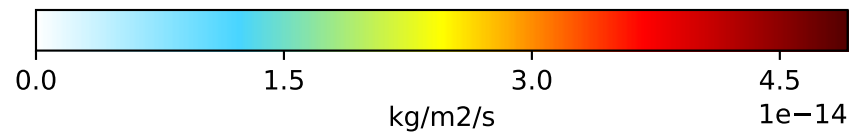
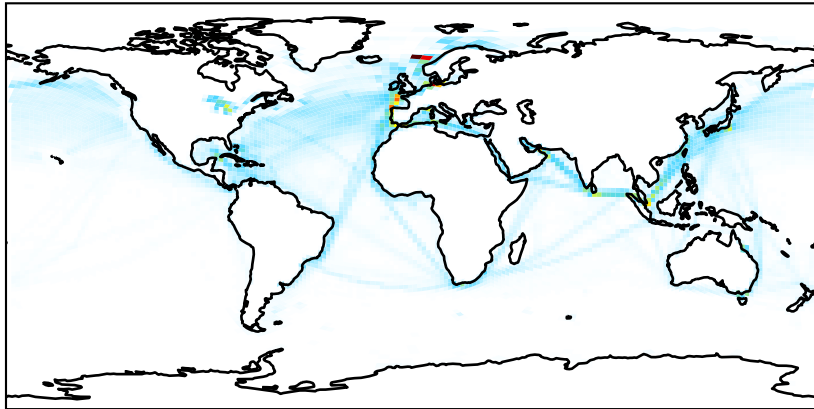
Ratio
Dev/Ref, Fixed Range



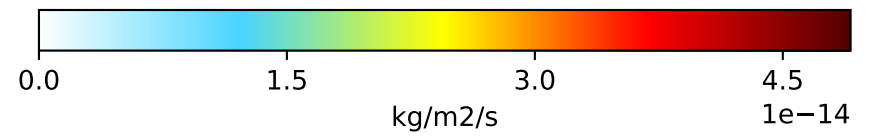
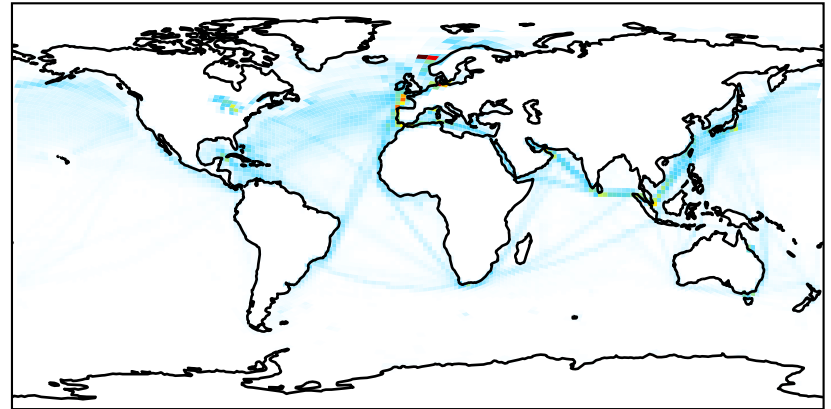
Undefined throughout domain
unitless

EmisNH3_Ship (Apr2019)

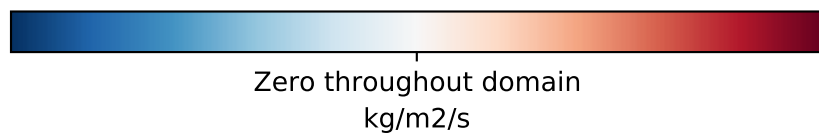
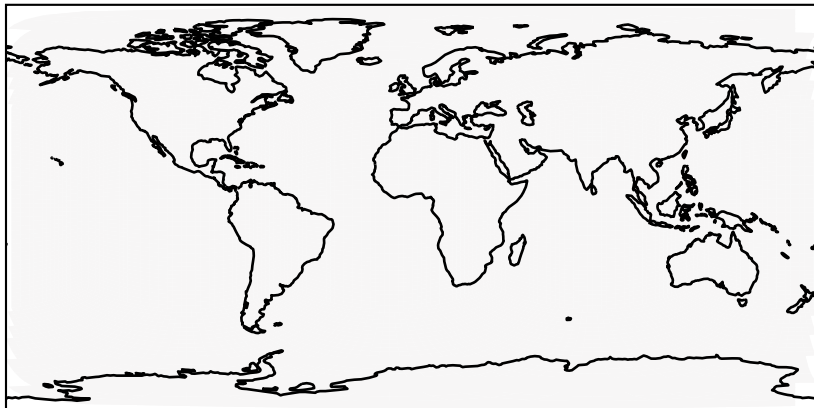
GCHP_13.0.0-beta.1 (Ref)
c48



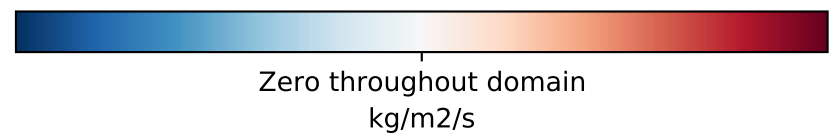
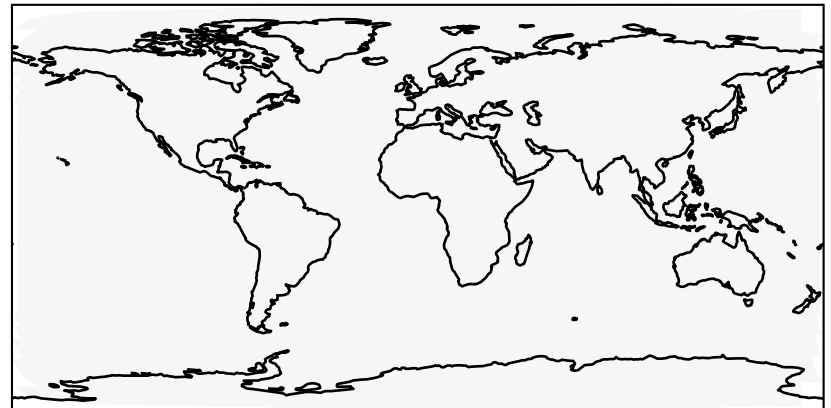
GCHP_13.0.0-rc.0 (Dev)
c48



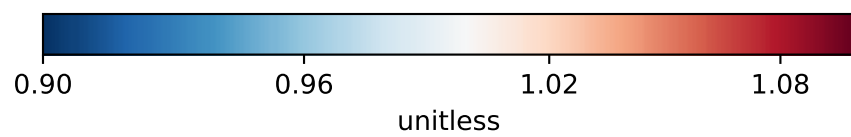
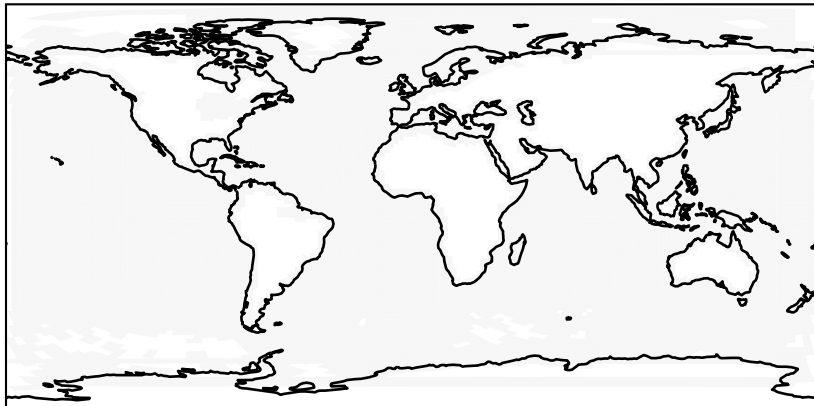
Difference
Dev - Ref, Dynamic Range



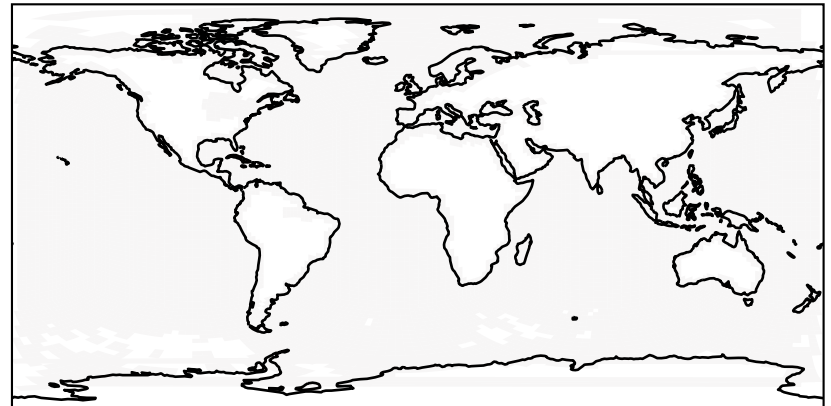
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

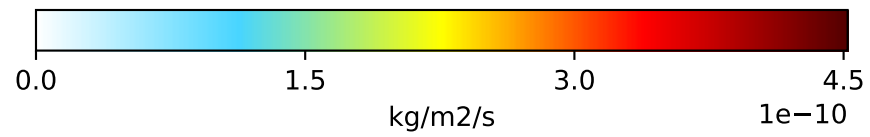
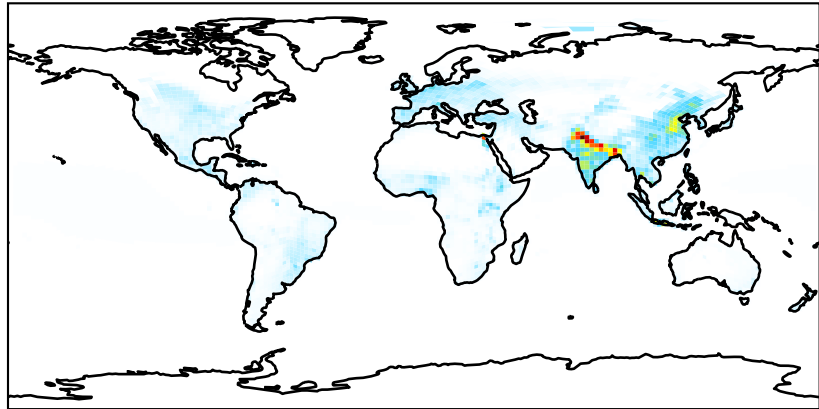


Ratio
Dev/Ref, Fixed Range

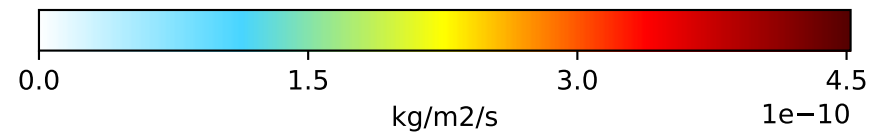
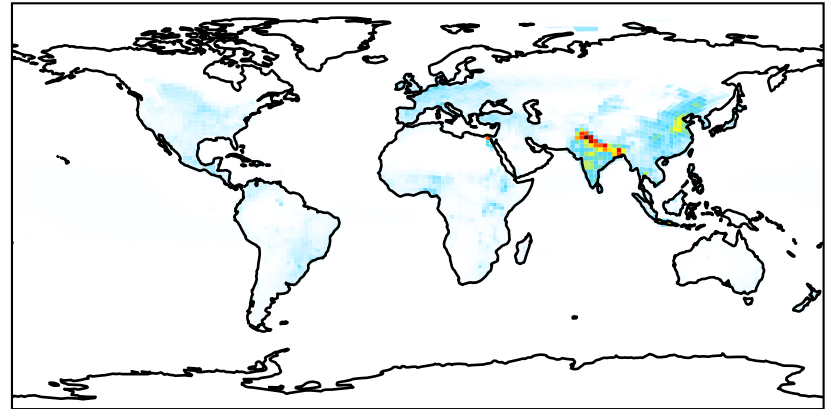


EmisNH3_Total (Apr2019)

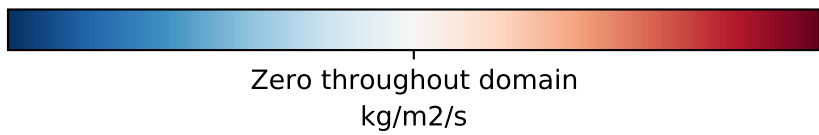
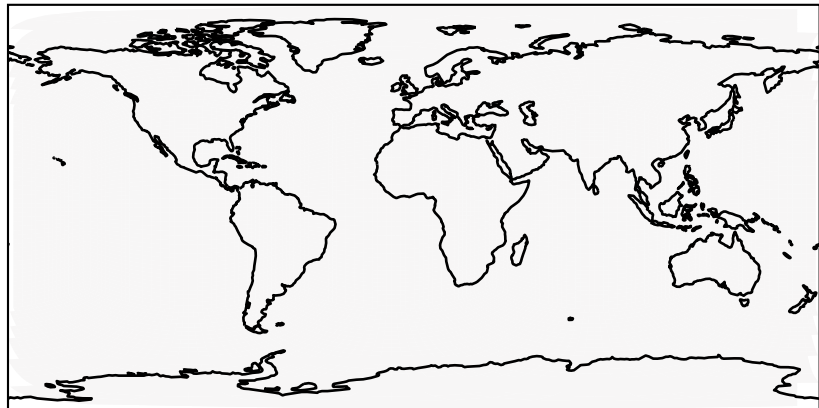
GCHP_13.0.0-beta.1 (Ref)
c48



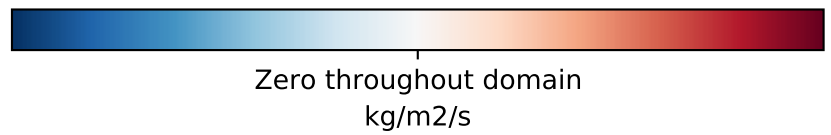
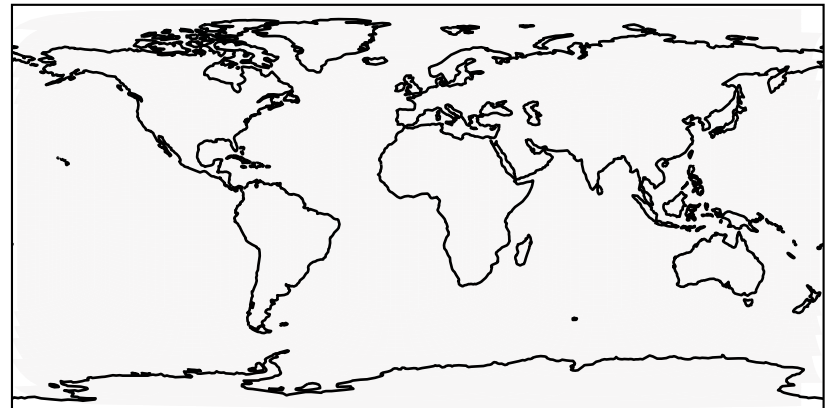
GCHP_13.0.0-rc.0 (Dev)
c48



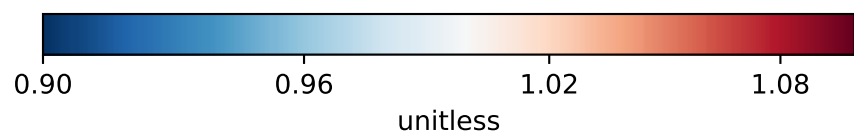
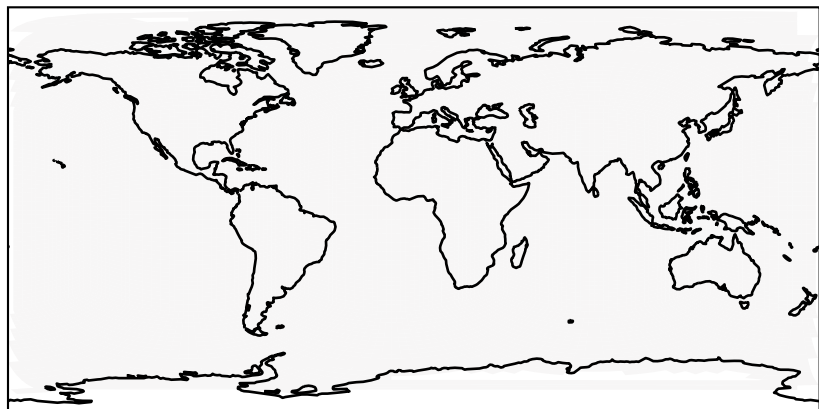
Difference
Dev - Ref, Dynamic Range



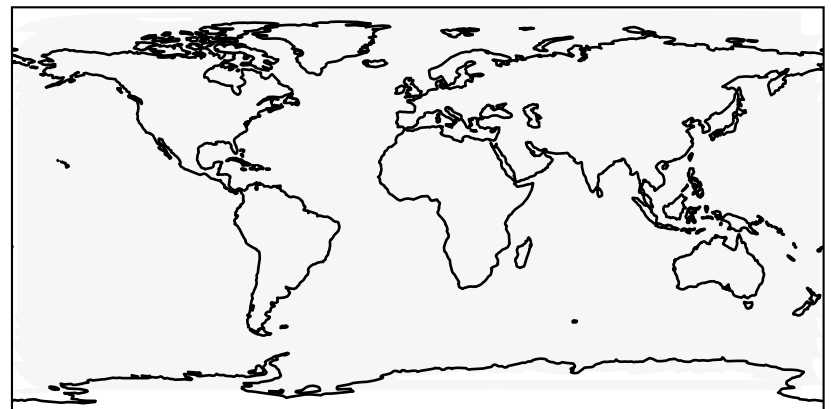
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

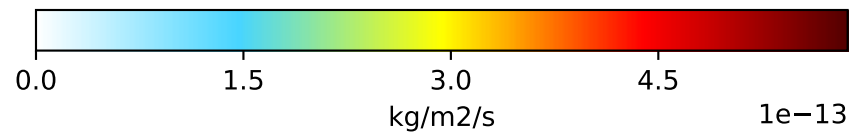
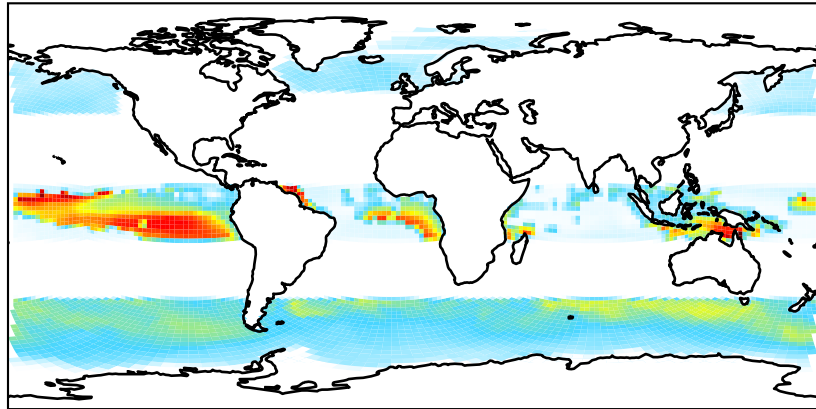


Ratio
Dev/Ref, Fixed Range

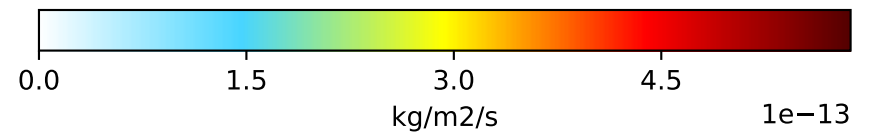
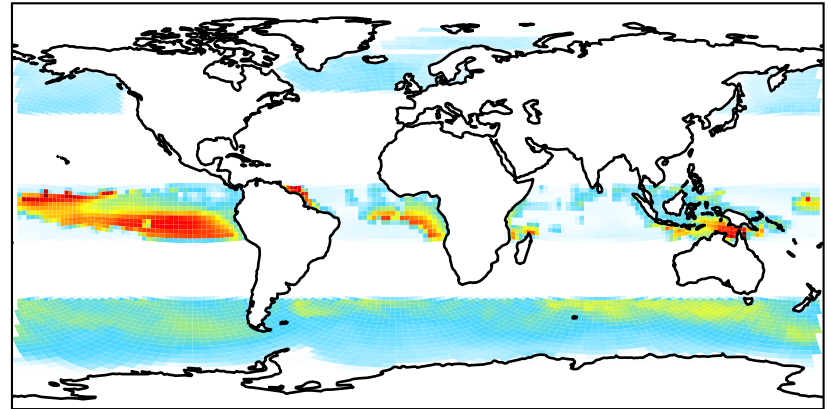


EmisMENO3_Ocean (Apr2019)

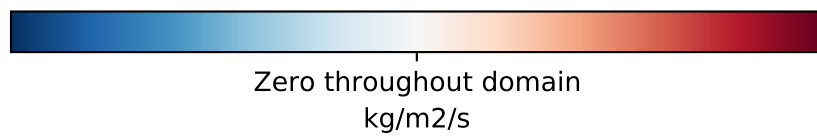
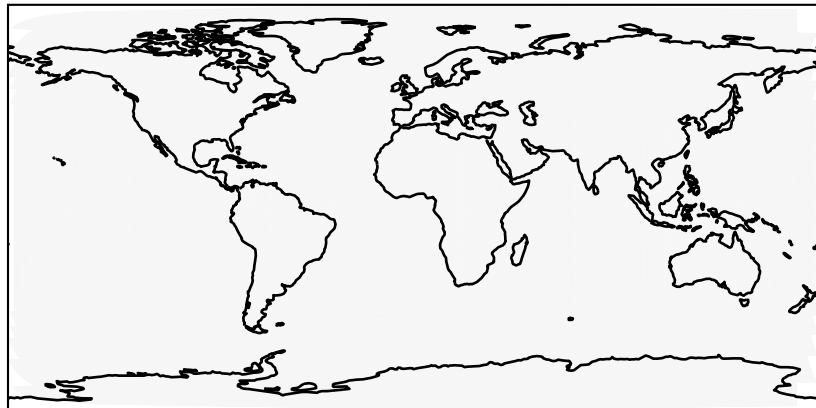
GCHP_13.0.0-beta.1 (Ref)
c48



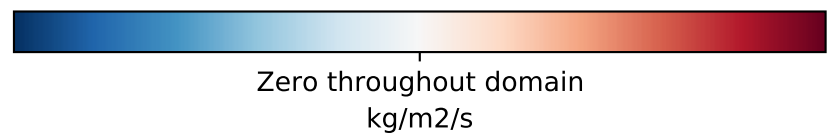
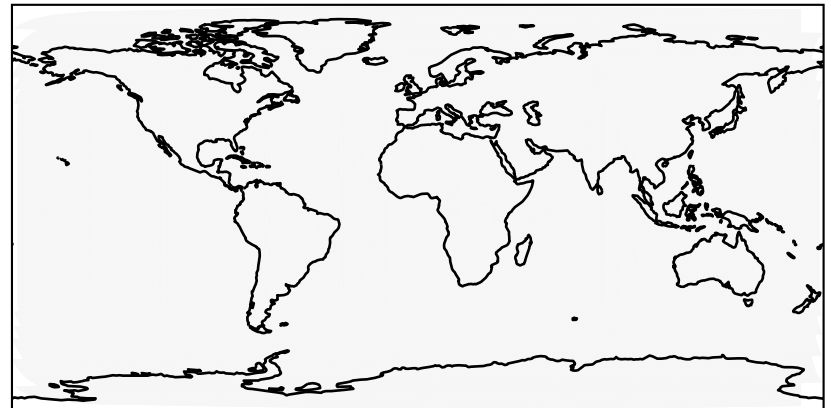
GCHP_13.0.0-rc.0 (Dev)
c48



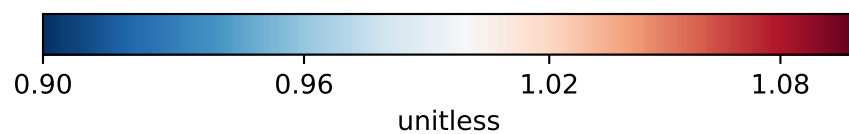
Difference
Dev - Ref, Dynamic Range



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



Ratio
Dev/Ref, Dynamic Range

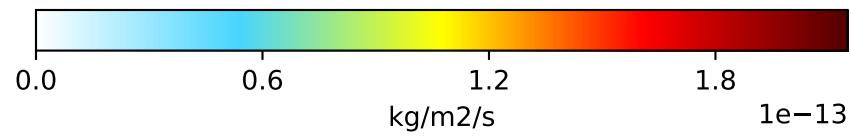
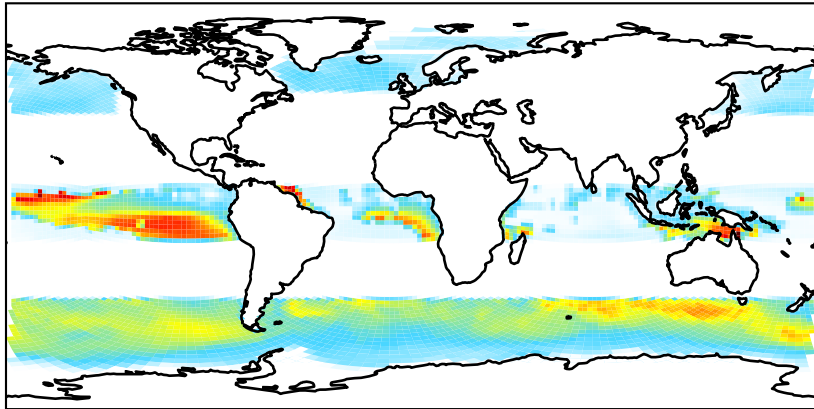


Ratio
Dev/Ref, Fixed Range

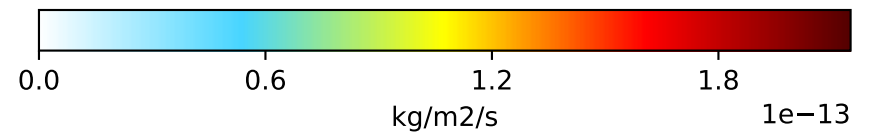
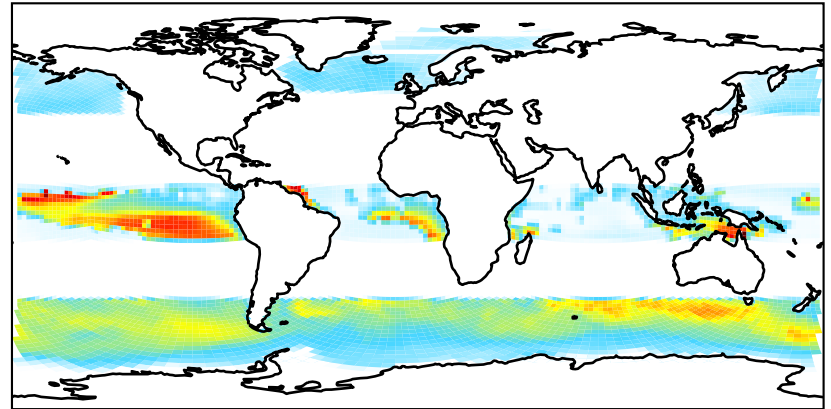


EmisETNO3_Ocean (Apr2019)

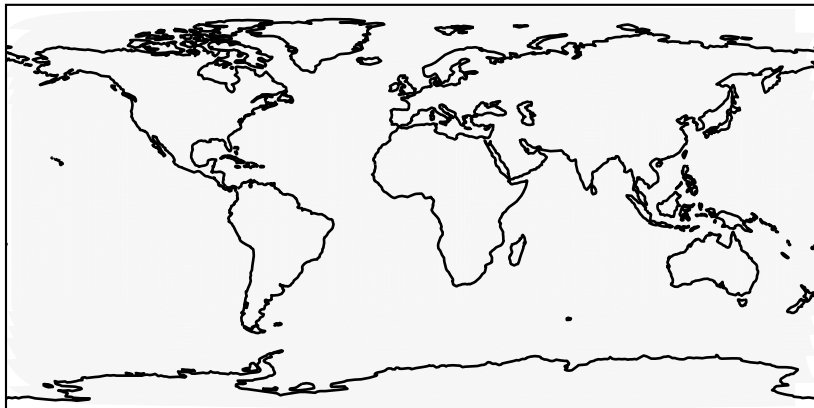
GCHP_13.0.0-beta.1 (Ref)
c48



GCHP_13.0.0-rc.0 (Dev)
c48

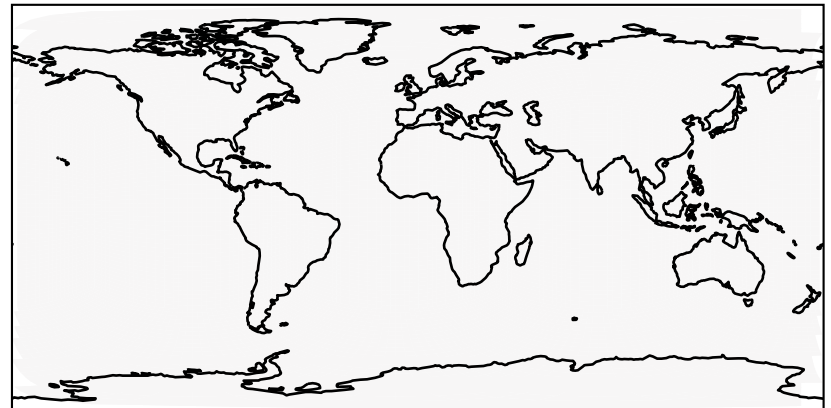


Difference
Dev - Ref, Dynamic Range



Zero throughout domain
kg/m2/s

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



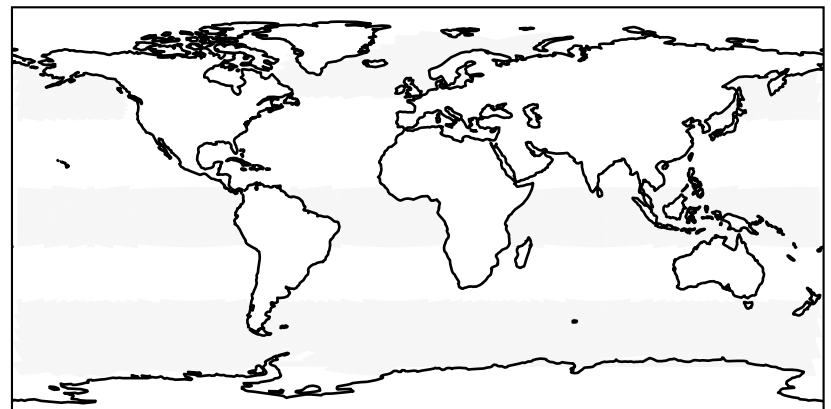
Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



0.90 0.96 1.02 1.08
unitless

Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless