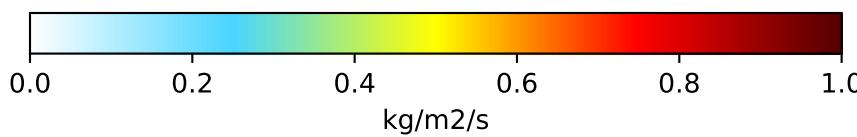
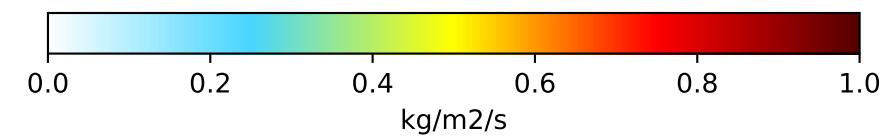


EmisALD2_Anthro

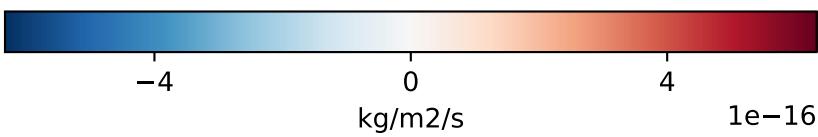
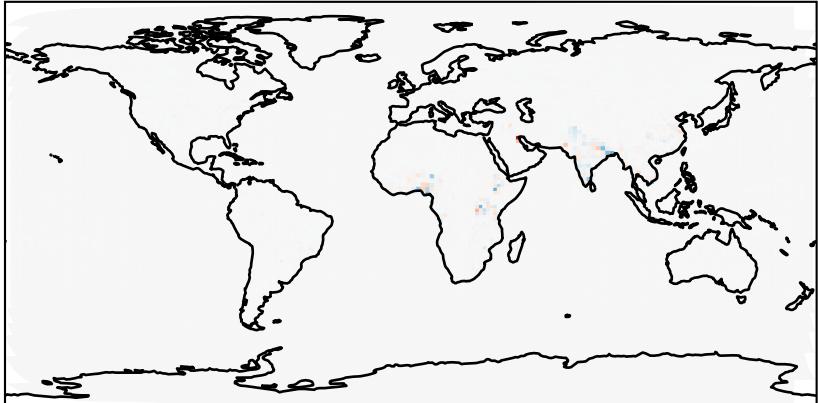
GCHP_13.0.0-rc.2 (Ref)
c48



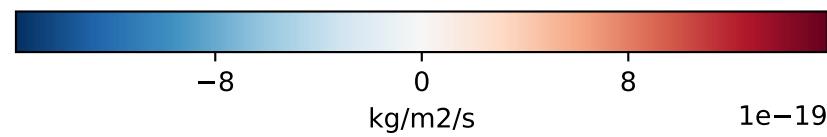
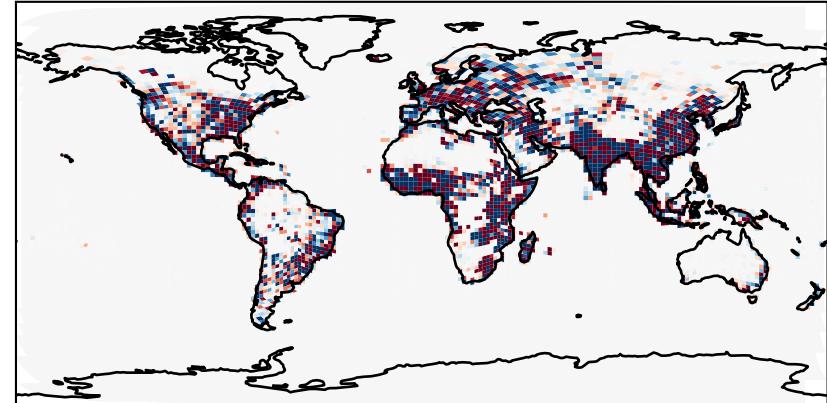
GCHP_13.1.0-beta.1 (Dev)
c48



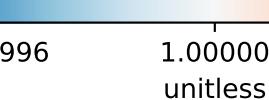
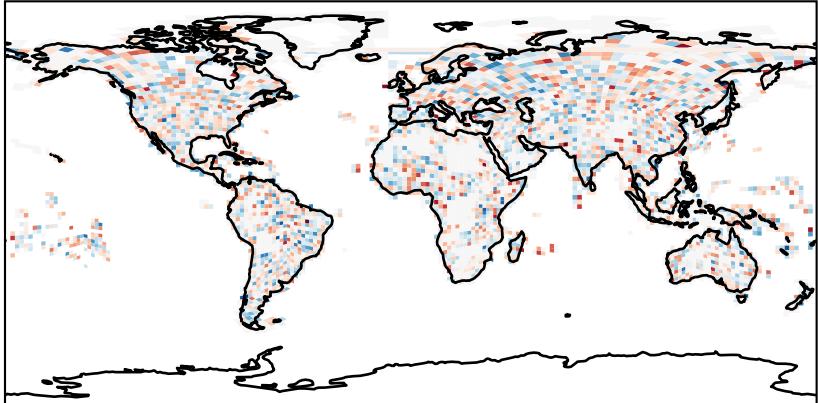
Difference
Dev - Ref, Dynamic Range



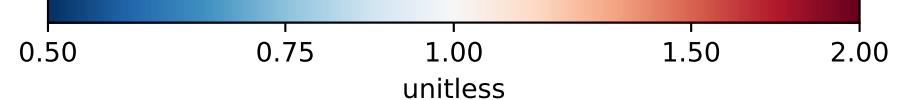
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

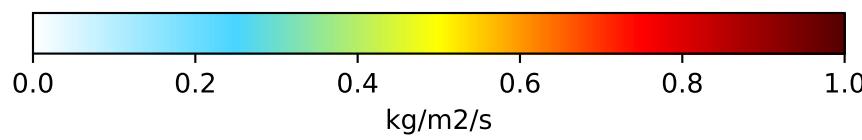
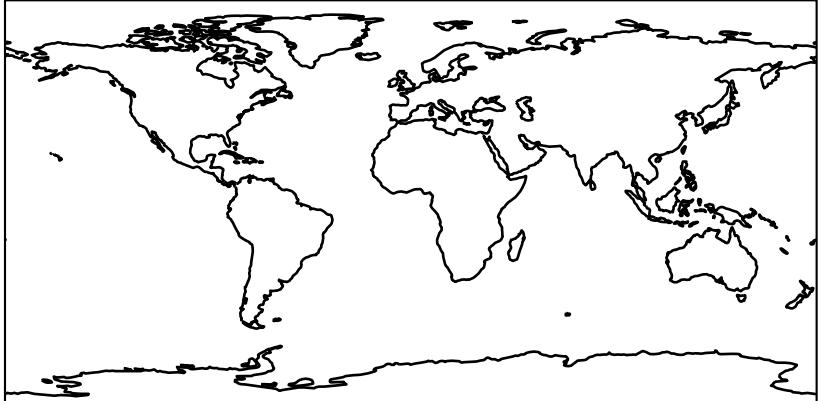


Ratio
Dev/Ref, Fixed Range

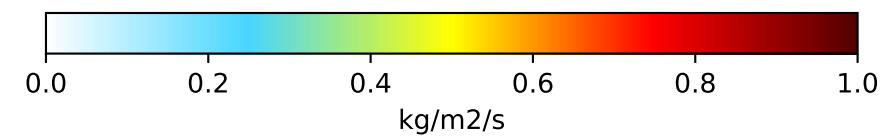
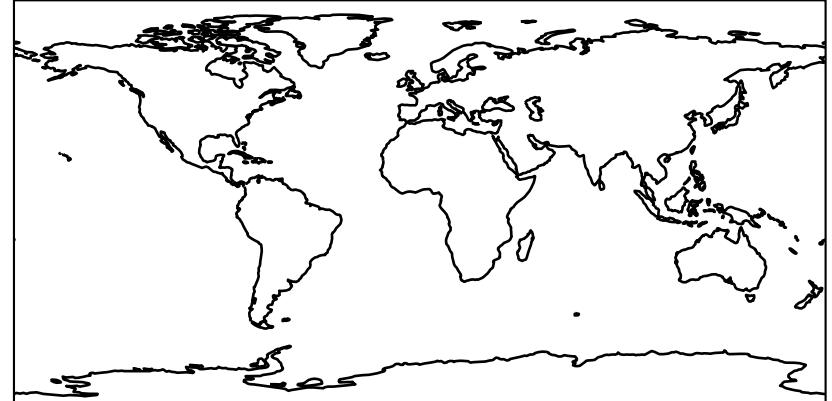


EmisALD2_BioBurn

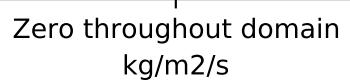
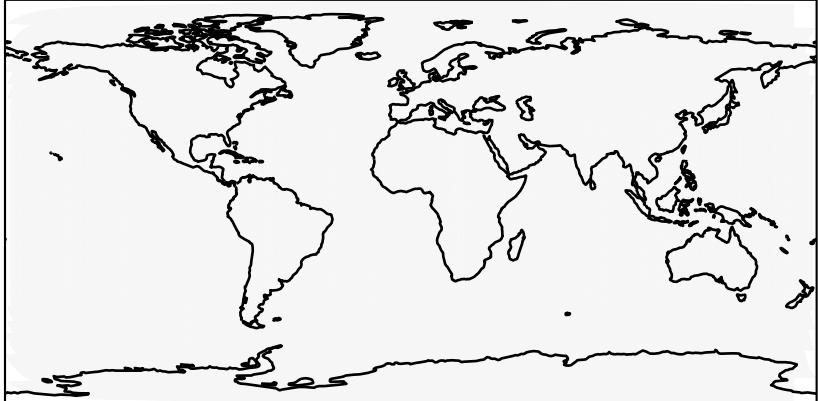
GCHP_13.0.0-rc.2 (Ref)
c48



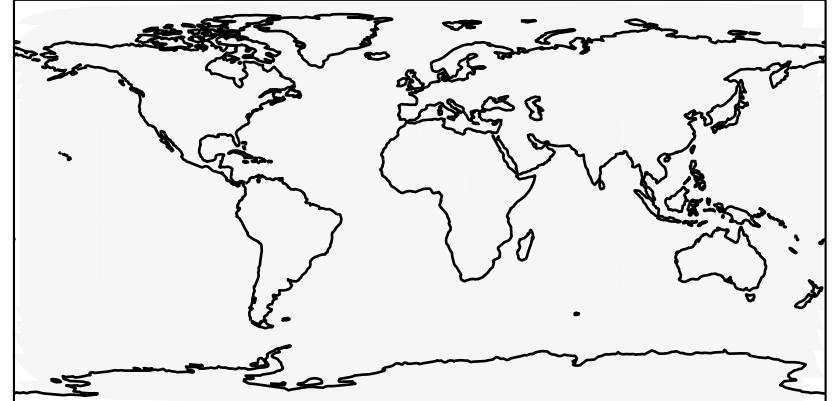
GCHP_13.1.0-beta.1 (Dev)
c48



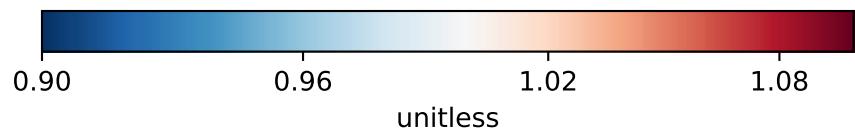
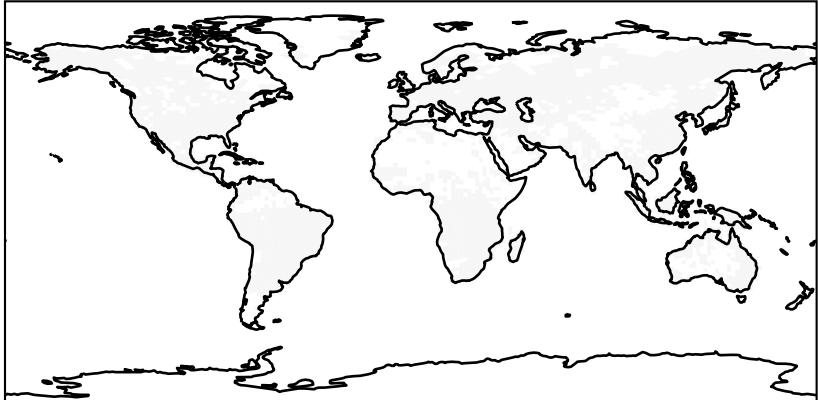
Difference
Dev - Ref, Dynamic Range



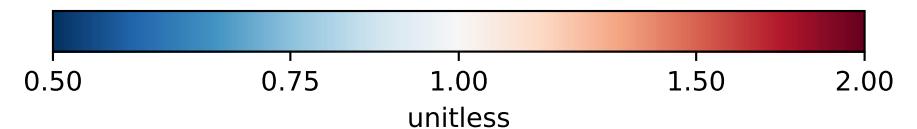
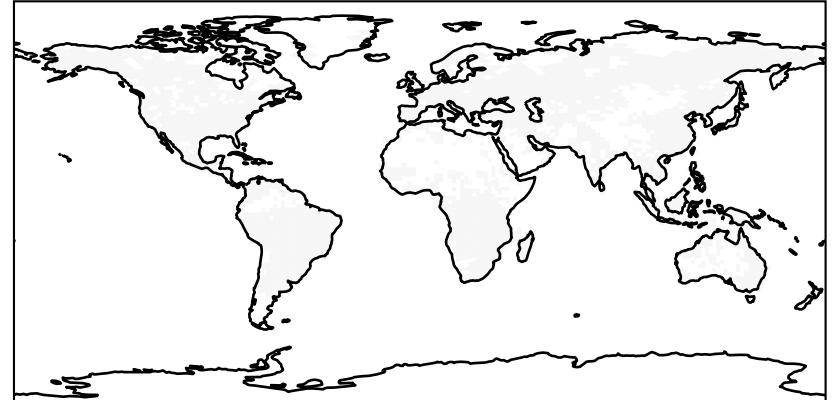
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

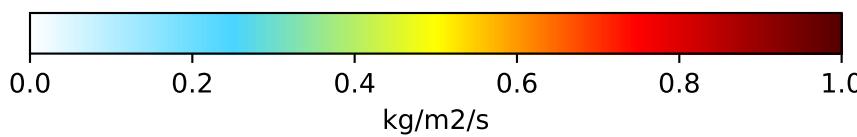
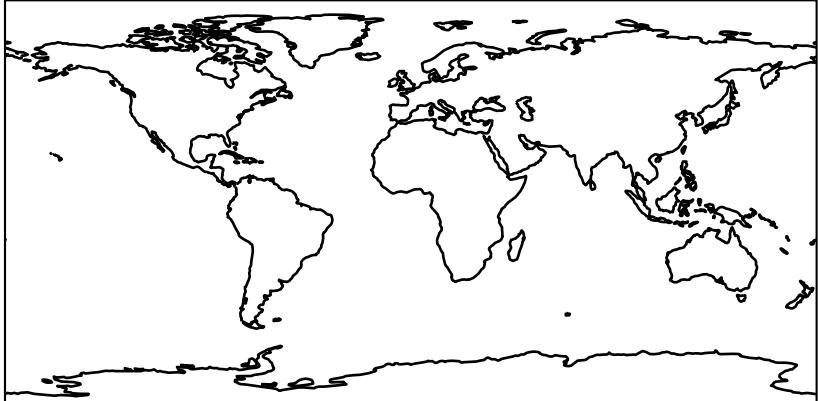


Ratio
Dev/Ref, Fixed Range

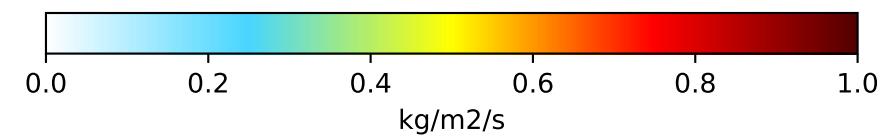
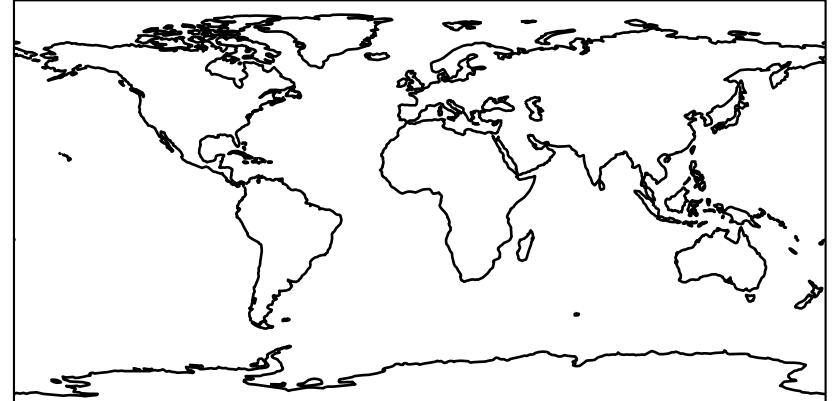


EmisALD2_Biogenic

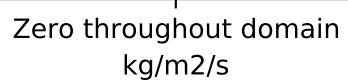
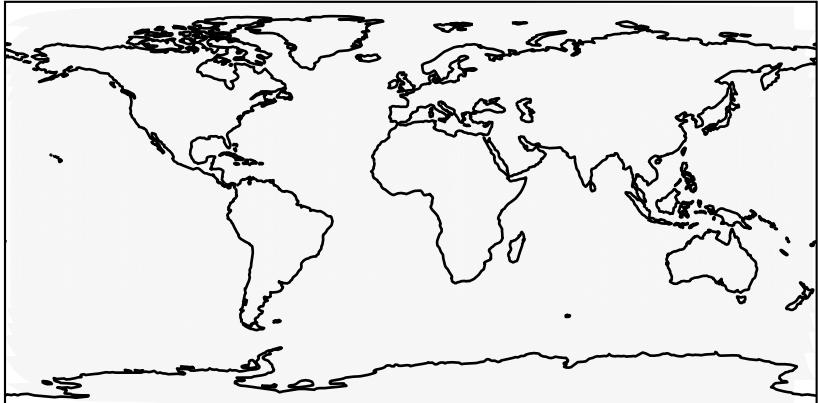
GCHP_13.0.0-rc.2 (Ref)
c48



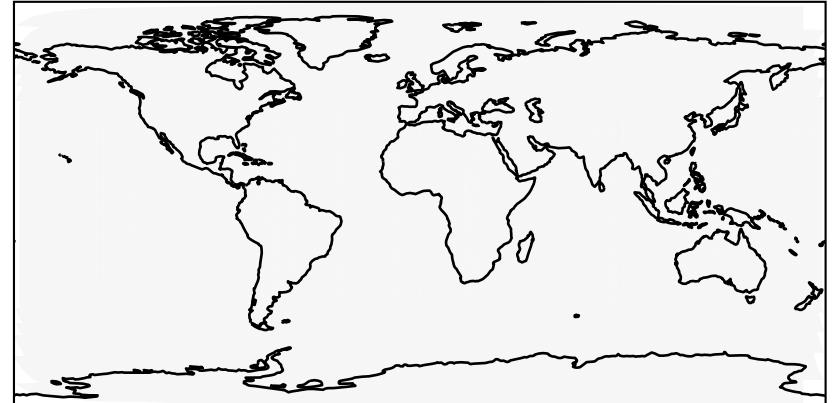
GCHP_13.1.0-beta.1 (Dev)
c48



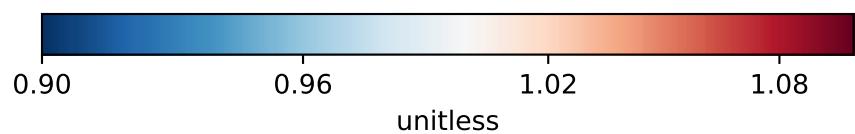
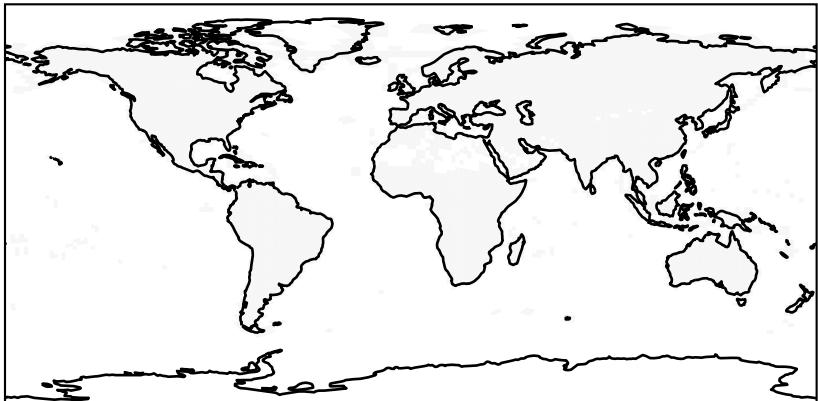
Difference
Dev - Ref, Dynamic Range



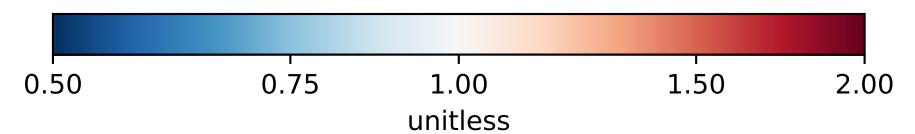
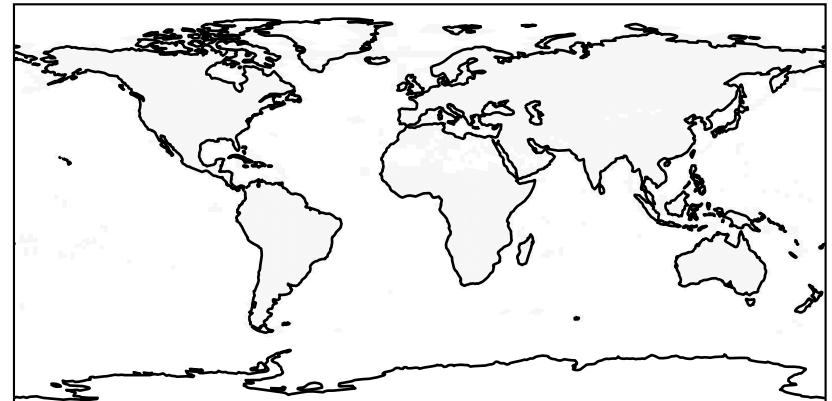
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

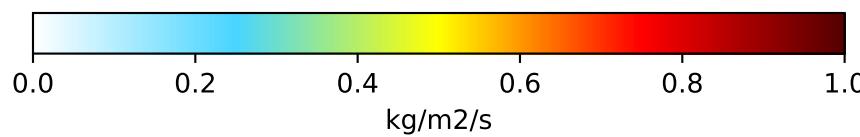
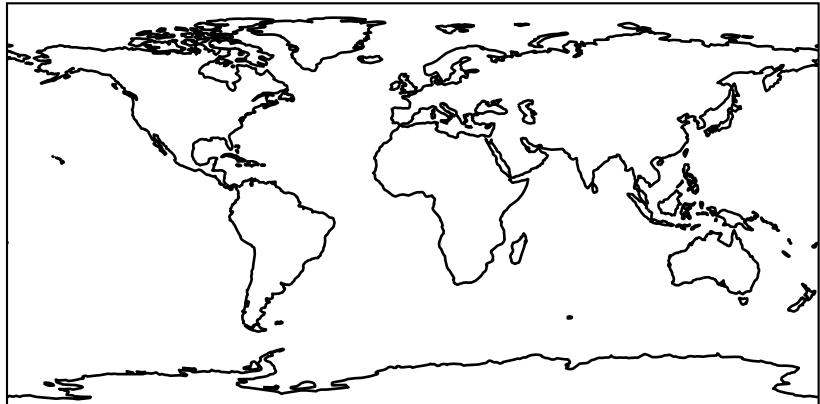


Ratio
Dev/Ref, Fixed Range

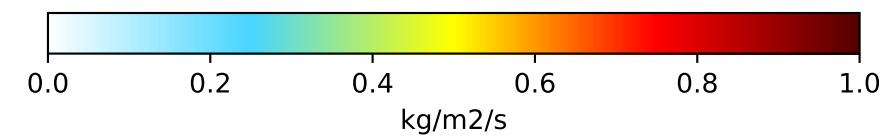
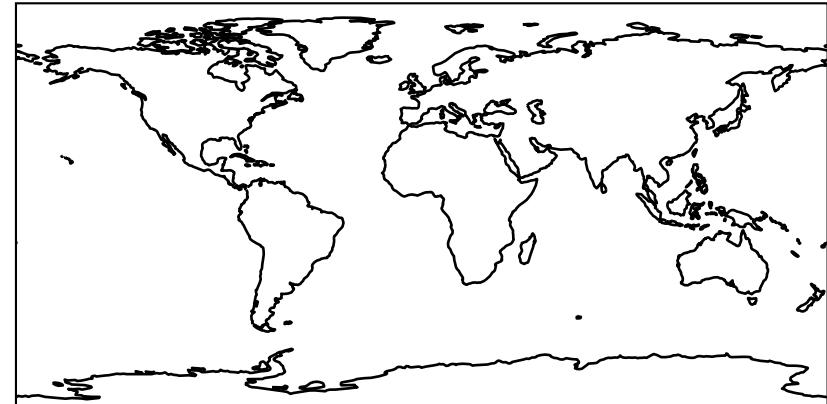


EmisALD2_Ocean

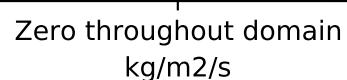
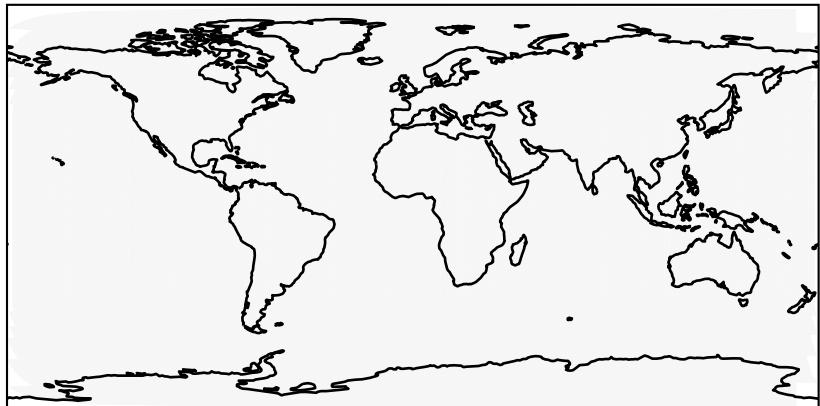
GCHP_13.0.0-rc.2 (Ref)
c48



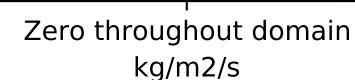
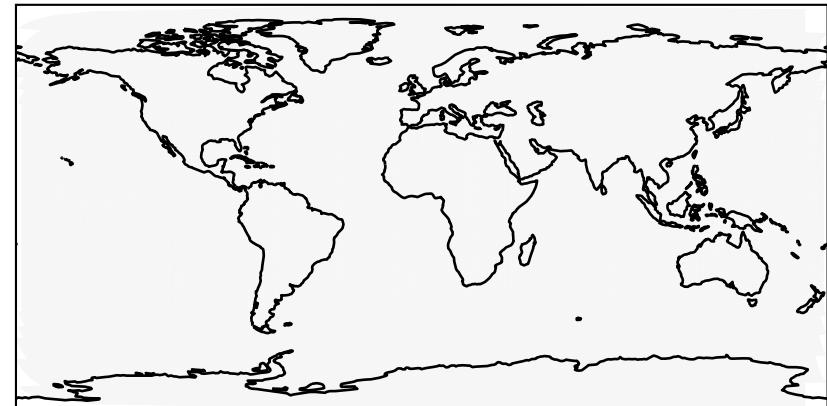
GCHP_13.1.0-beta.1 (Dev)
c48



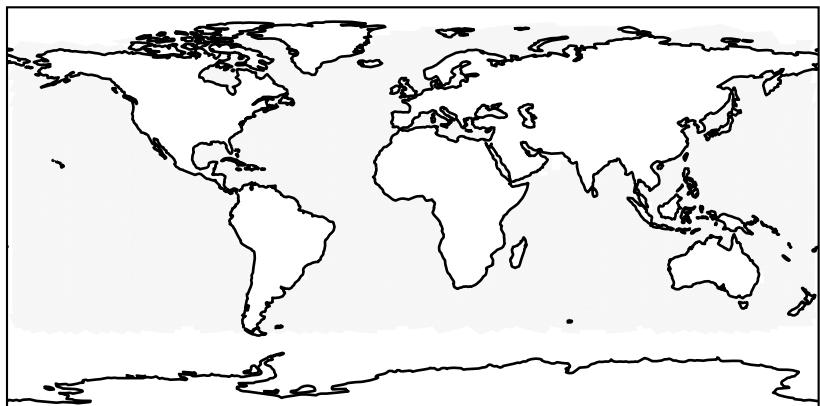
Difference
Dev - Ref, Dynamic Range



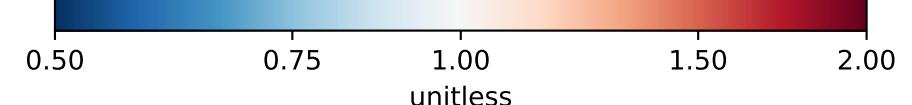
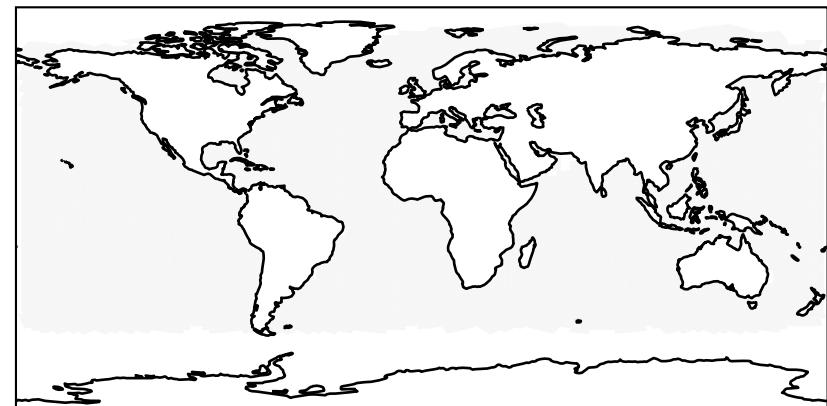
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

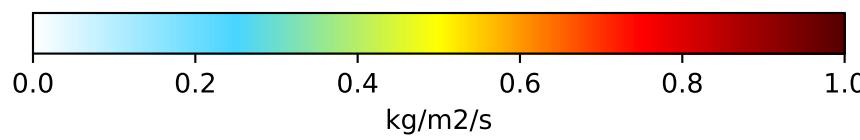
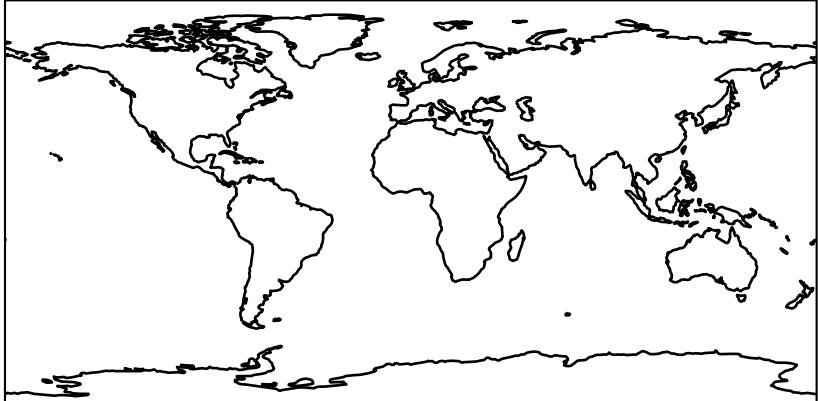


Ratio
Dev/Ref, Fixed Range

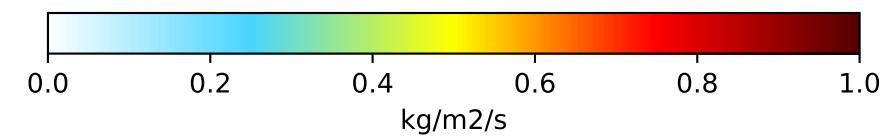


EmisALD2_PlantDecay

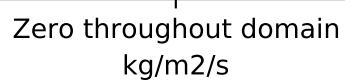
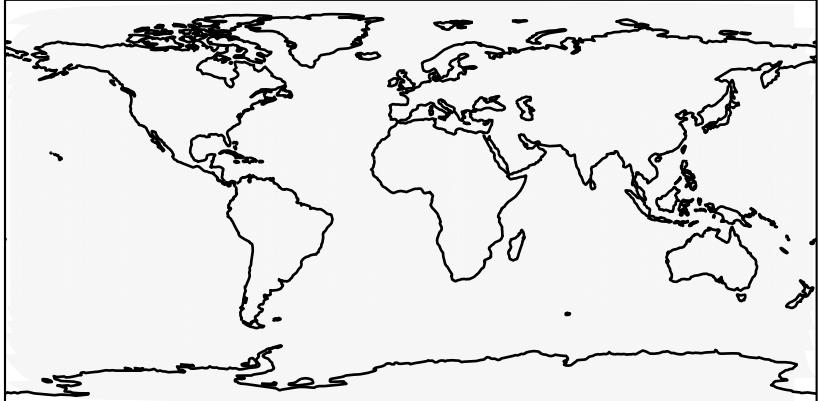
GCHP_13.0.0-rc.2 (Ref)
c48



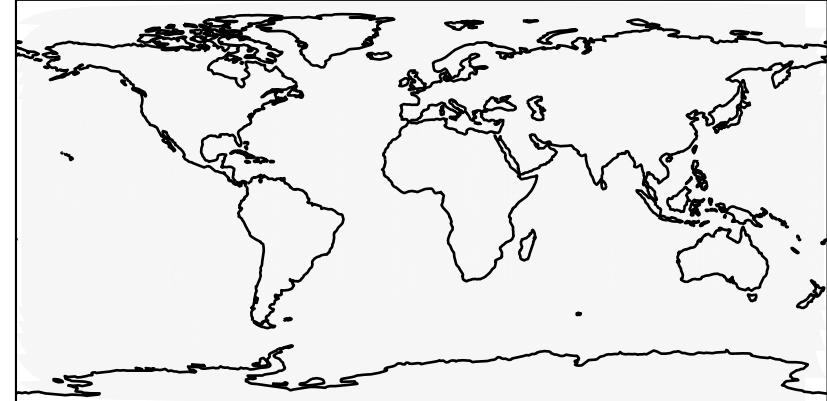
GCHP_13.1.0-beta.1 (Dev)
c48



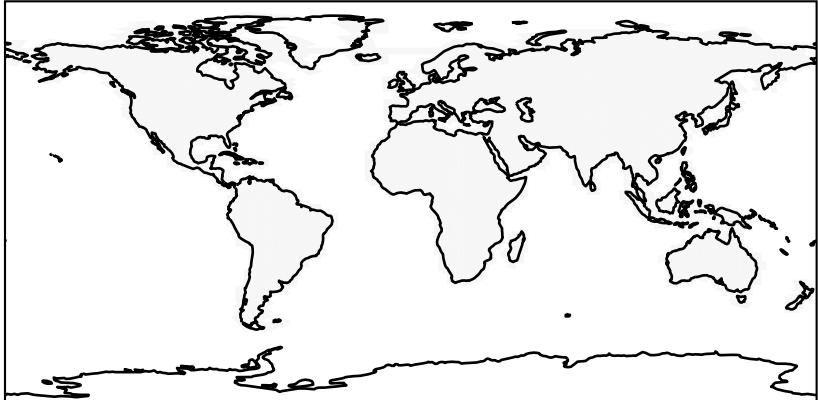
Difference
Dev - Ref, Dynamic Range



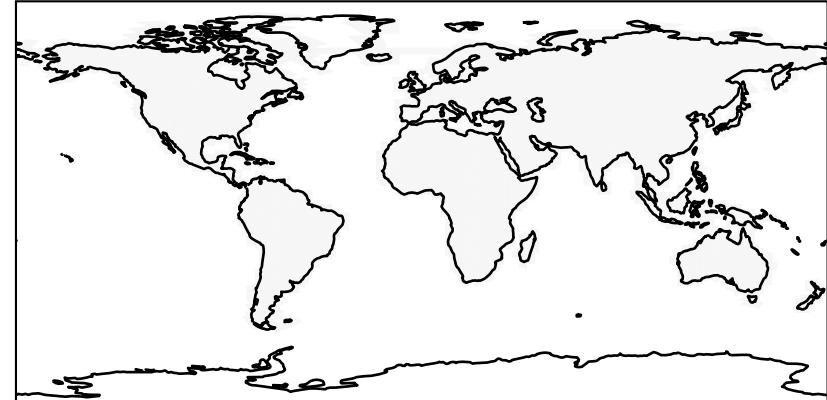
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

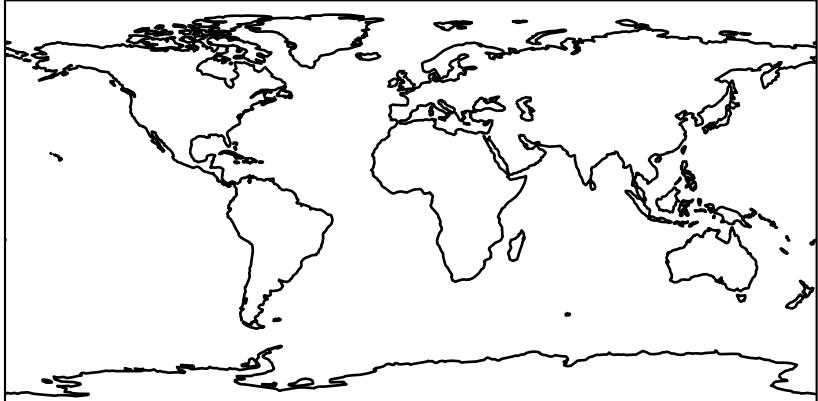


Ratio
Dev/Ref, Fixed Range



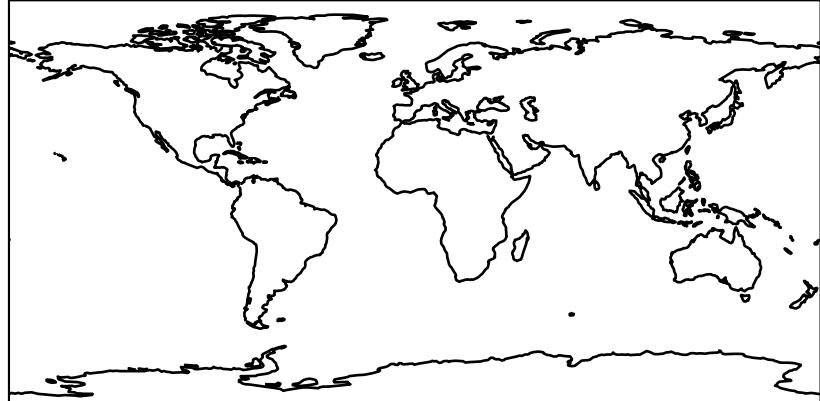
EmisALD2_Ship

GCHP_13.0.0-rc.2 (Ref)
c48



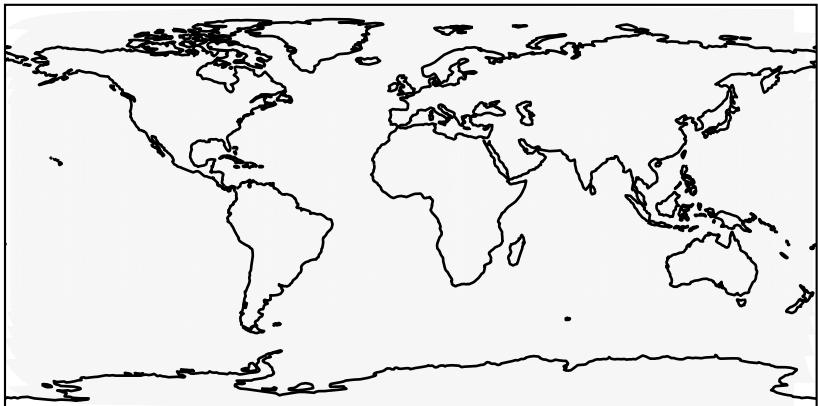
Zero throughout domain
kg/m²/s

GCHP_13.1.0-beta.1 (Dev)
c48



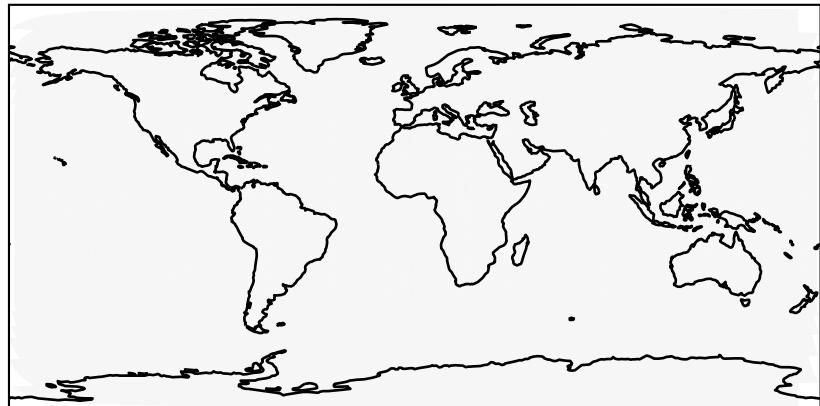
Zero throughout domain
kg/m²/s

Difference
Dev - Ref, Dynamic Range



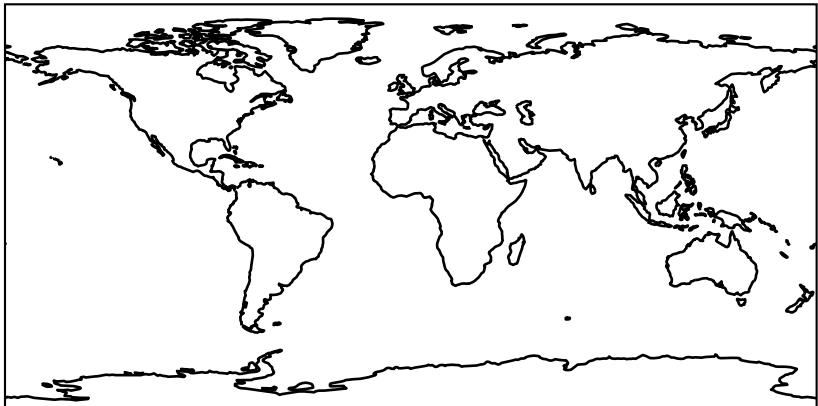
Zero throughout domain
kg/m²/s

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



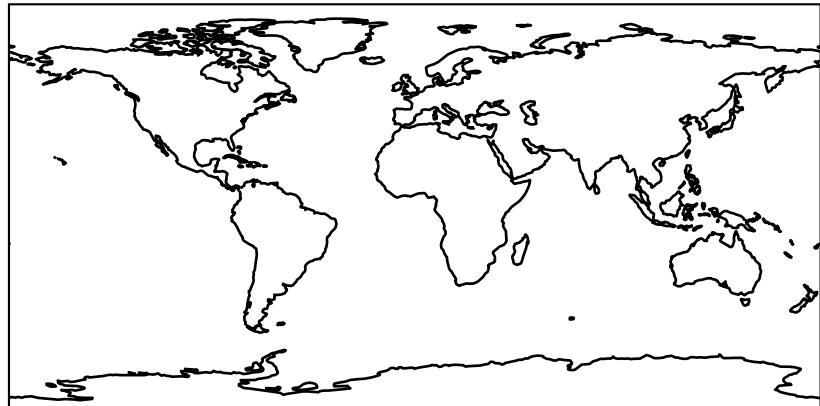
Zero throughout domain
kg/m²/s

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

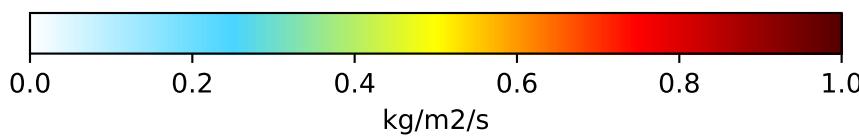
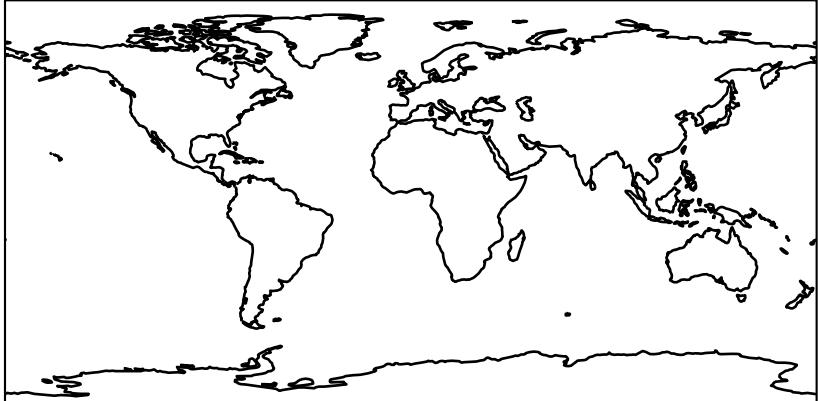
Ratio
Dev/Ref, Fixed Range



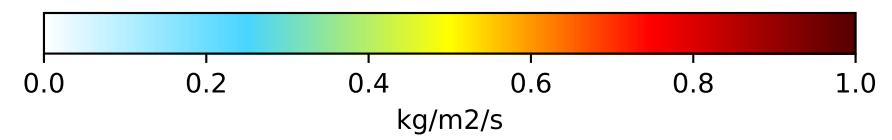
Undefined throughout domain
unitless

EmisALD2_Total

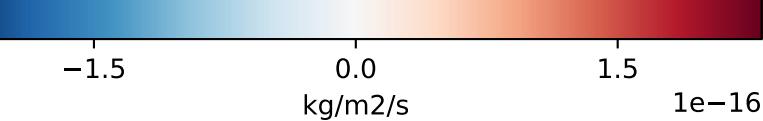
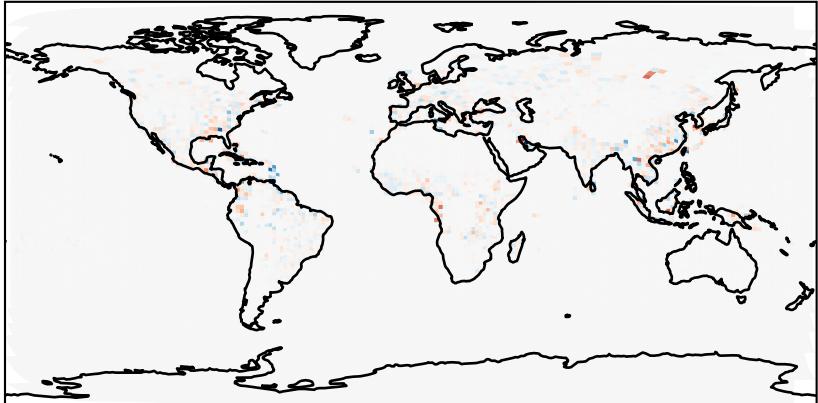
GCHP_13.0.0-rc.2 (Ref)
c48



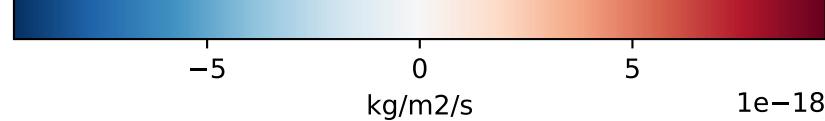
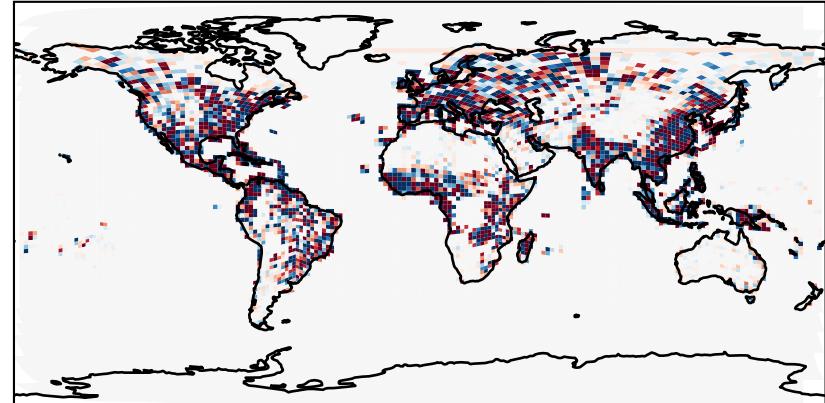
GCHP_13.1.0-beta.1 (Dev)
c48



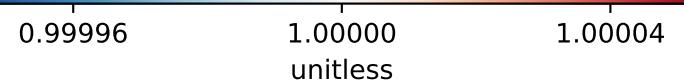
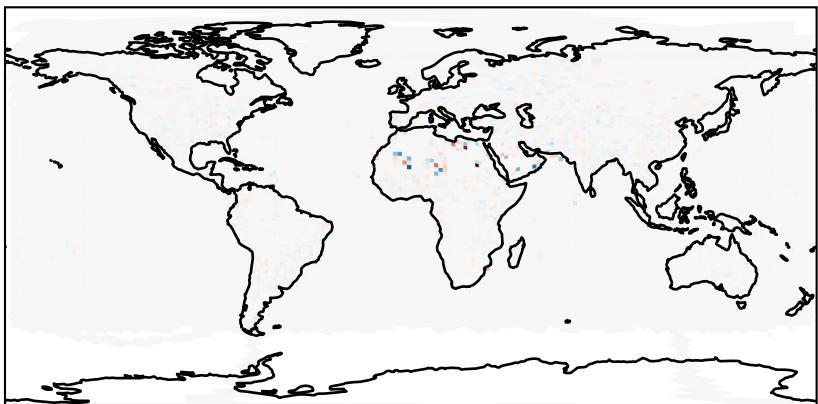
Difference
Dev - Ref, Dynamic Range



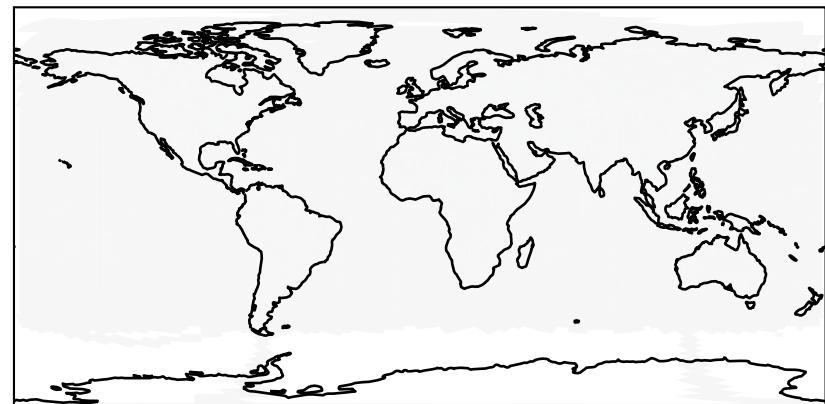
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

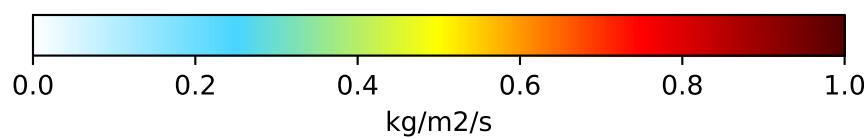
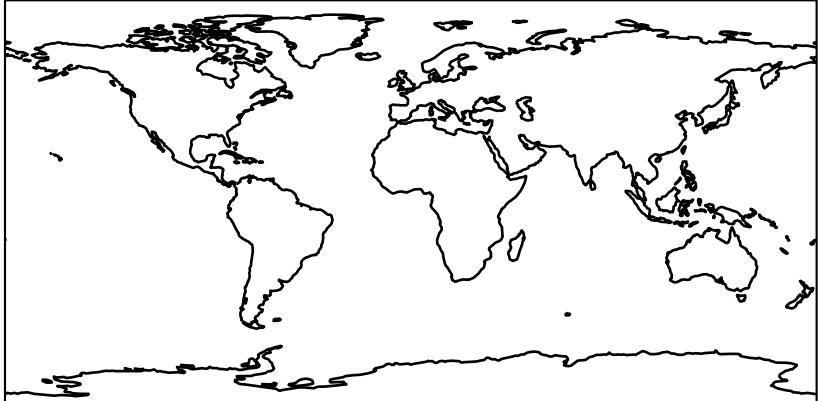


Ratio
Dev/Ref, Fixed Range

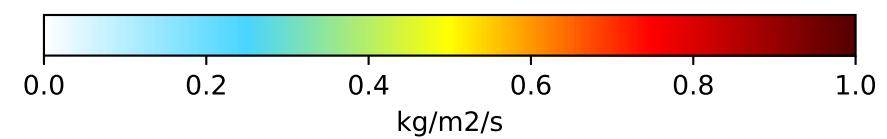
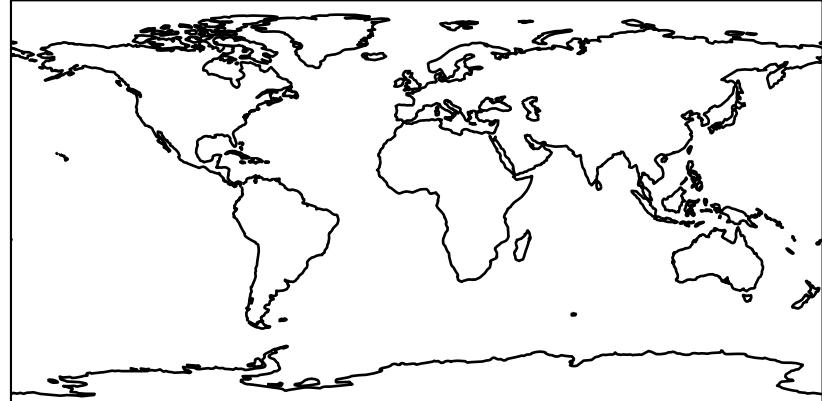


EmisCH2O_Aircraft

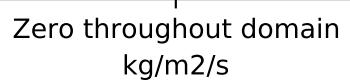
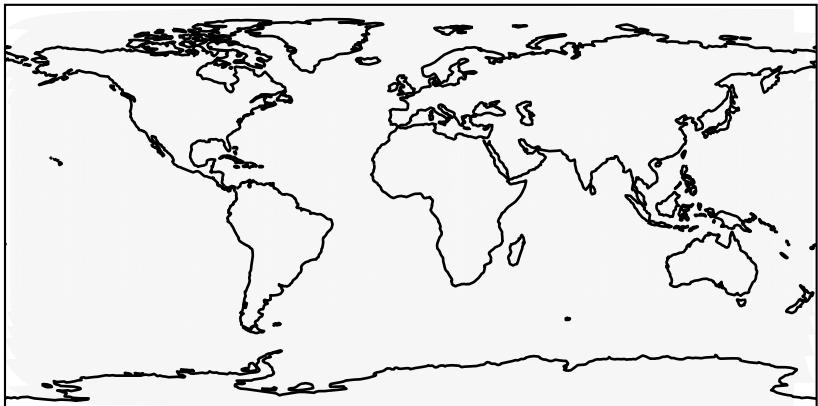
GCHP_13.0.0-rc.2 (Ref)
c48



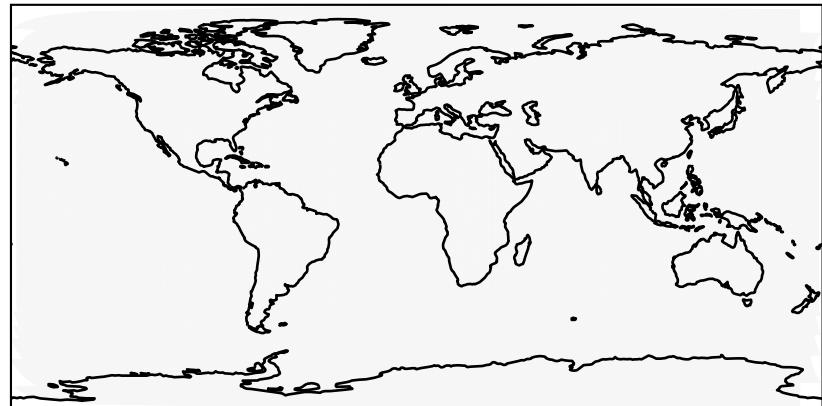
GCHP_13.1.0-beta.1 (Dev)
c48



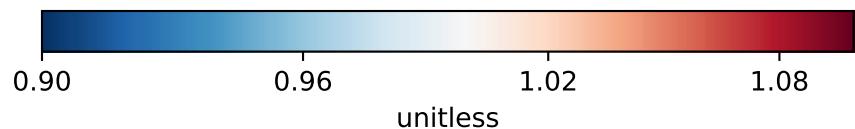
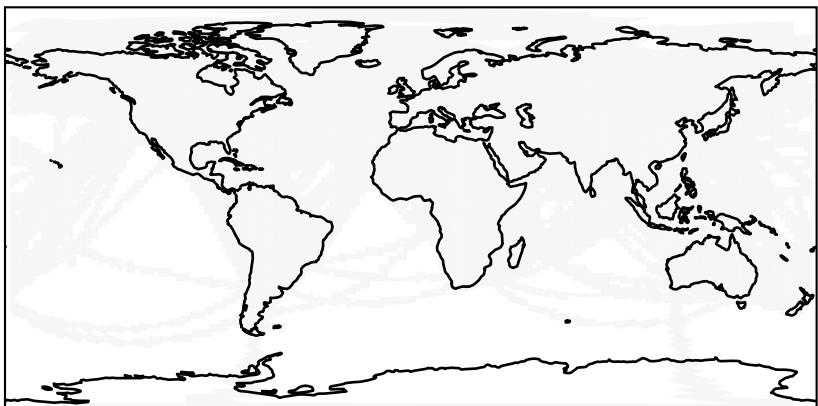
Difference
Dev - Ref, Dynamic Range



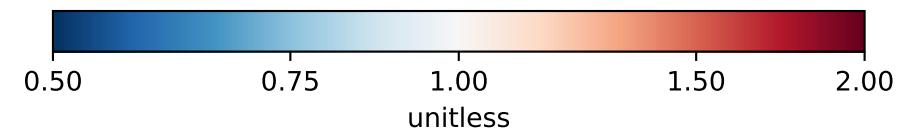
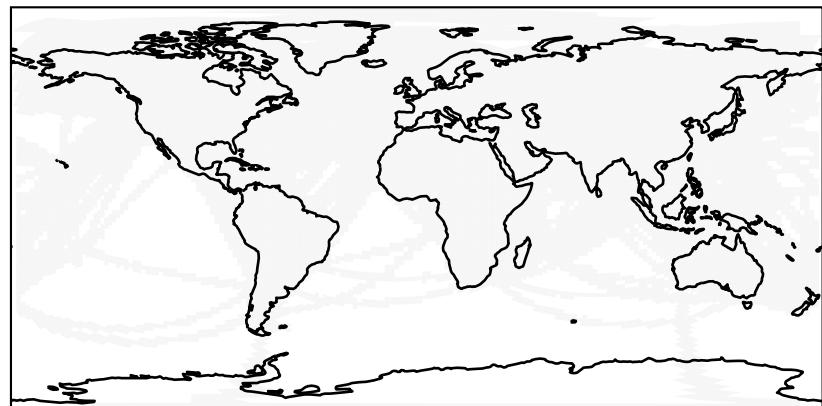
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

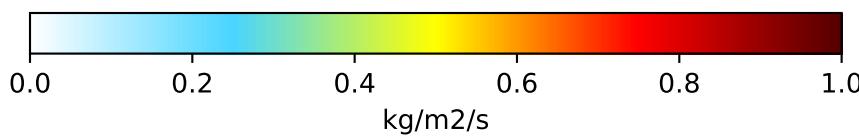
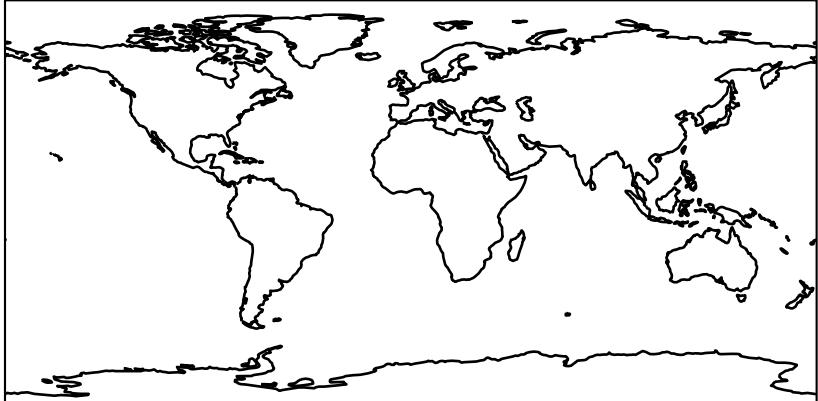


Ratio
Dev/Ref, Fixed Range

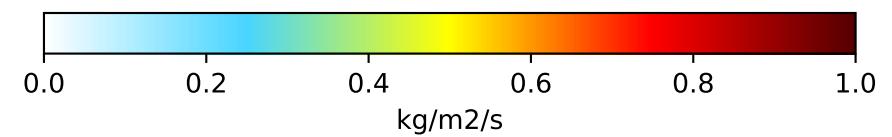


EmisCH2O_Anthro

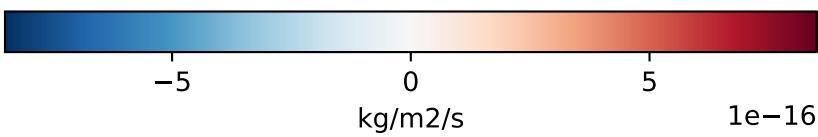
GCHP_13.0.0-rc.2 (Ref)
c48



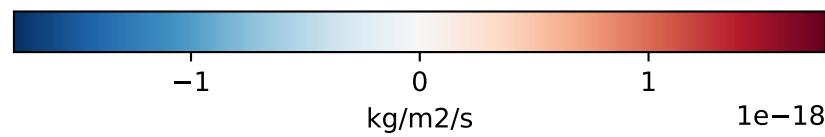
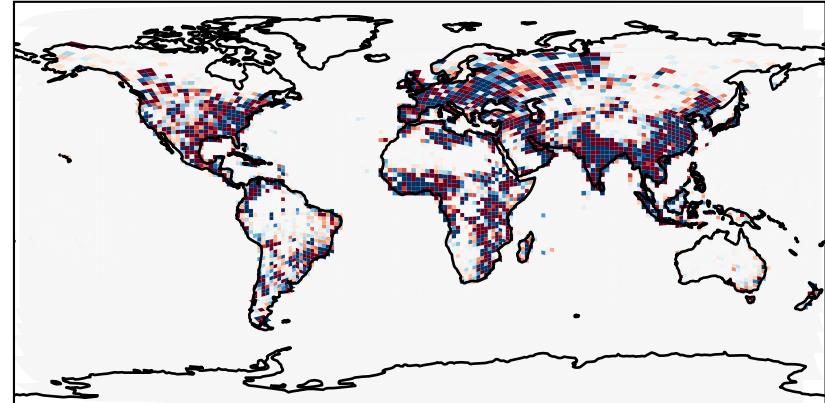
GCHP_13.1.0-beta.1 (Dev)
c48



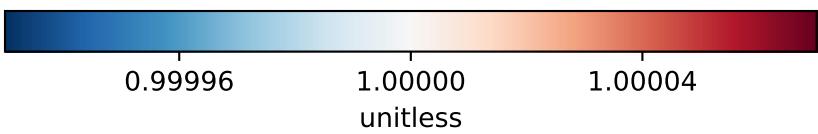
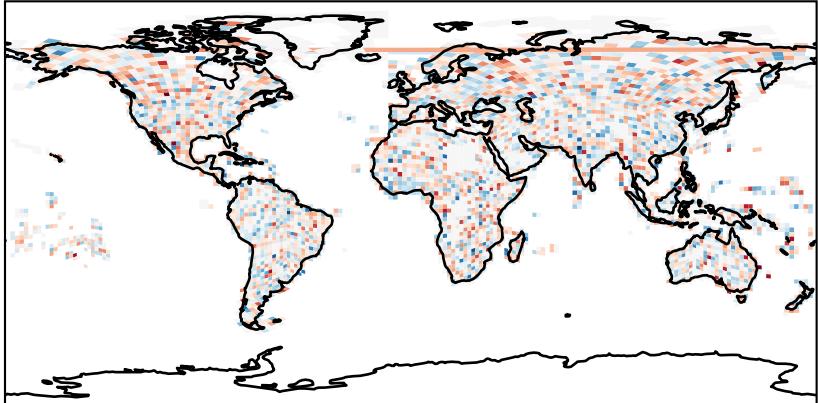
Difference
Dev - Ref, Dynamic Range



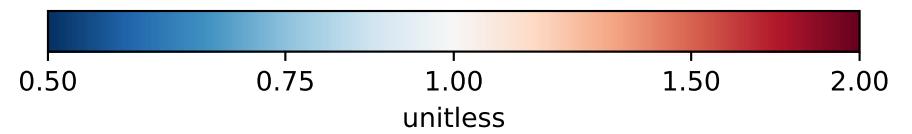
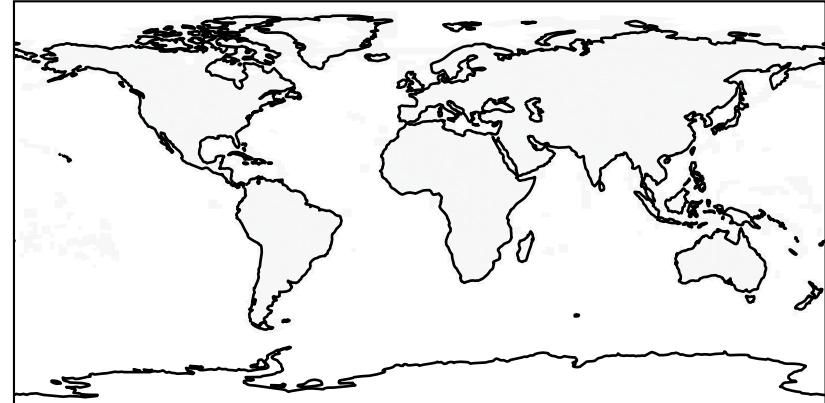
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

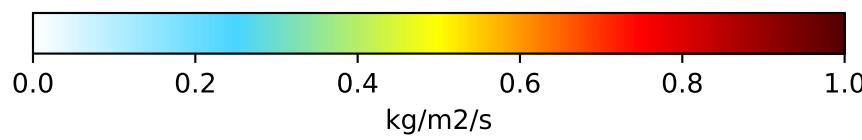
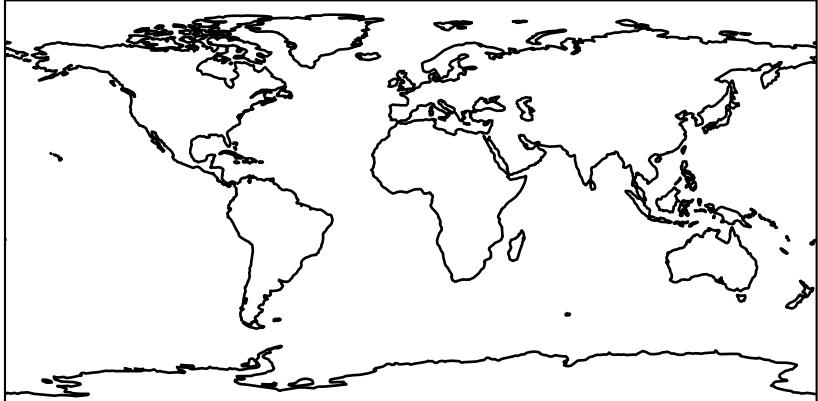


Ratio
Dev/Ref, Fixed Range

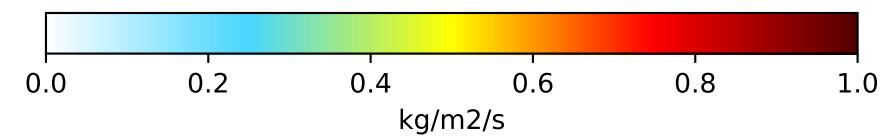
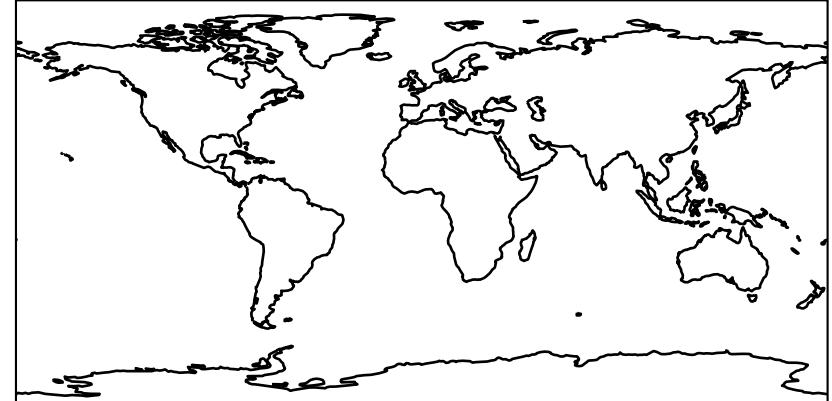


EmisCH2O_BioBurn

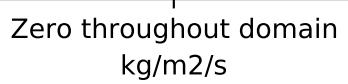
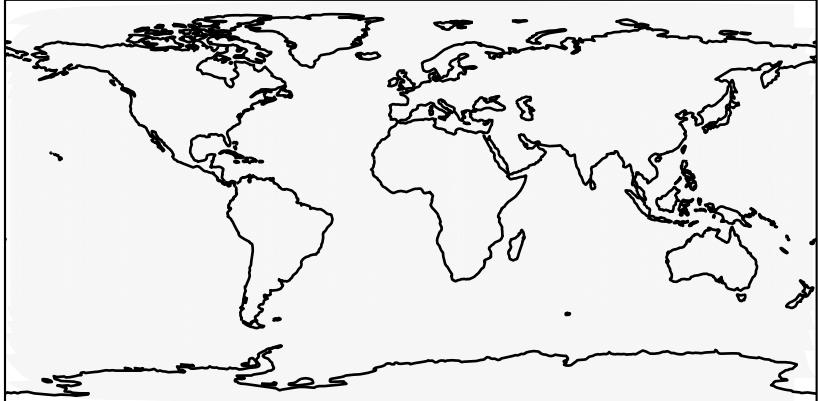
GCHP_13.0.0-rc.2 (Ref)
c48



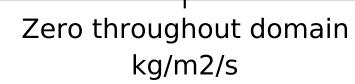
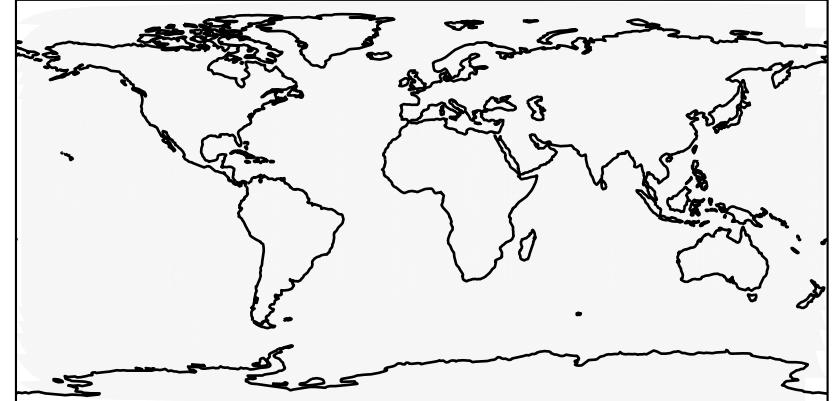
GCHP_13.1.0-beta.1 (Dev)
c48



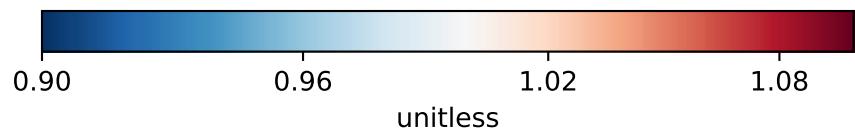
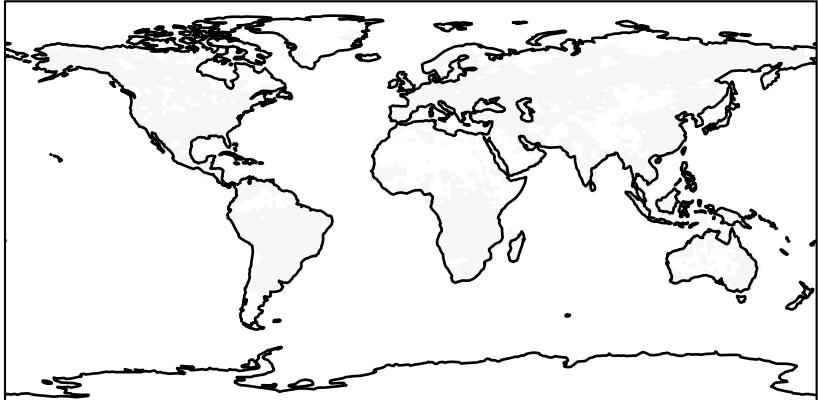
Difference
Dev - Ref, Dynamic Range



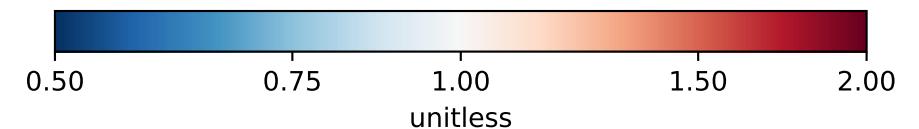
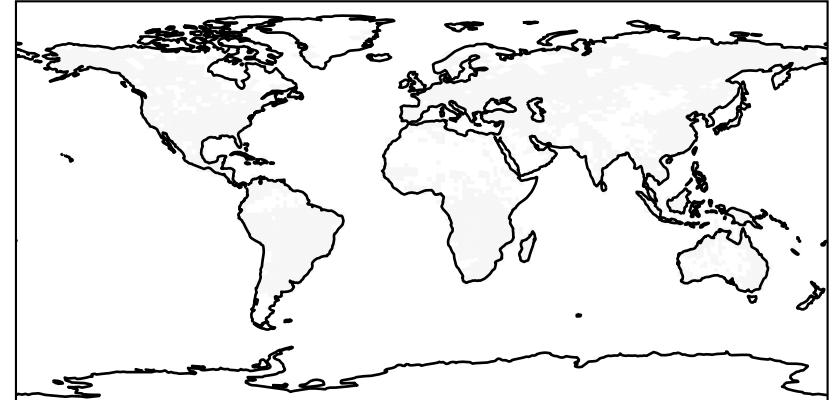
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

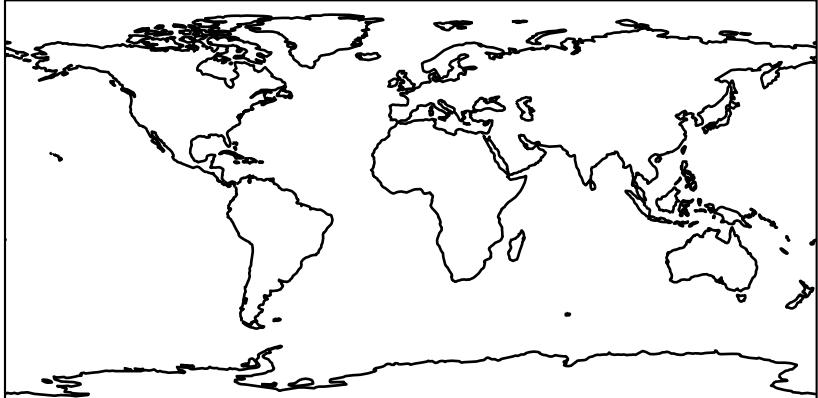


Ratio
Dev/Ref, Fixed Range

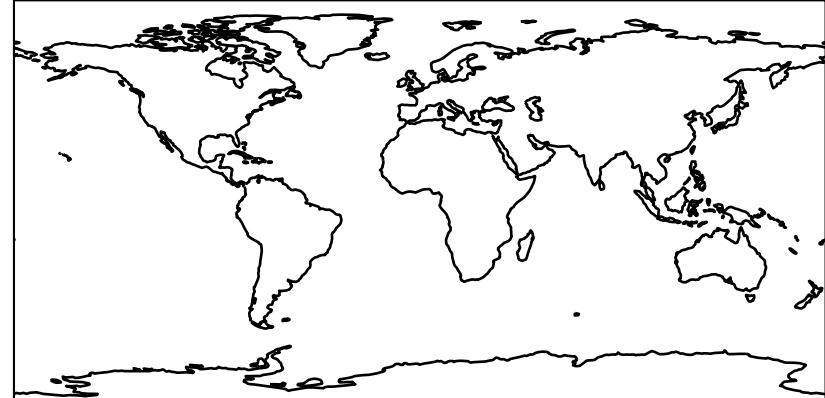


EmisCH2O_Ship

GCHP_13.0.0-rc.2 (Ref)
c48



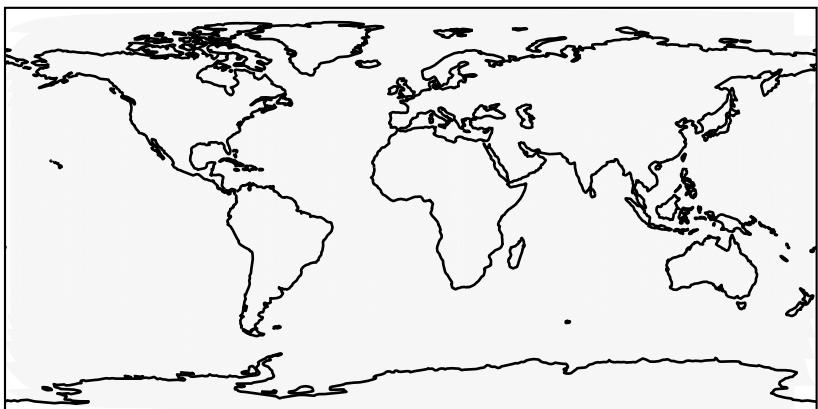
GCHP_13.1.0-beta.1 (Dev)
c48



Zero throughout domain
kg/m²/s

Zero throughout domain
kg/m²/s

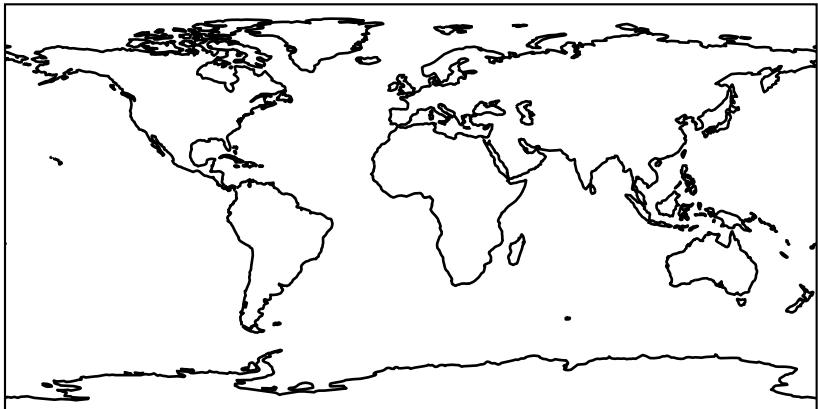
Difference
Dev - Ref, Dynamic Range



Zero throughout domain
kg/m²/s

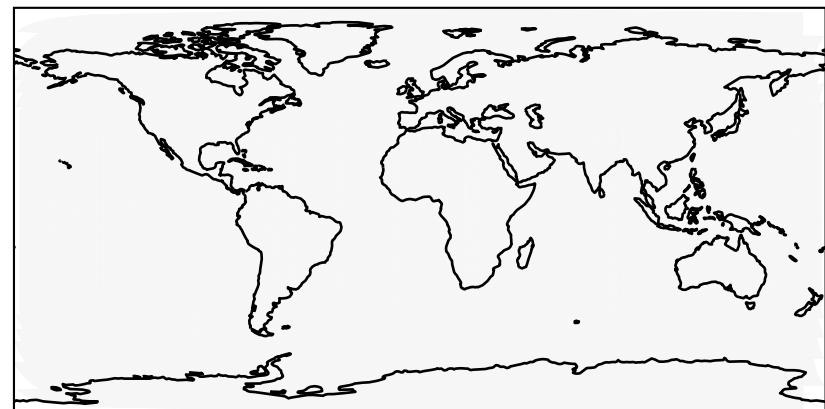
Zero throughout domain
kg/m²/s

Ratio
Dev/Ref, Dynamic Range



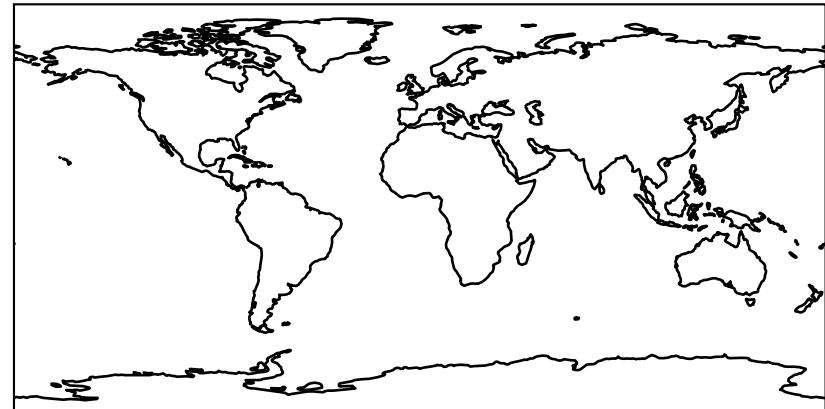
Undefined throughout domain
unitless

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



Zero throughout domain
kg/m²/s

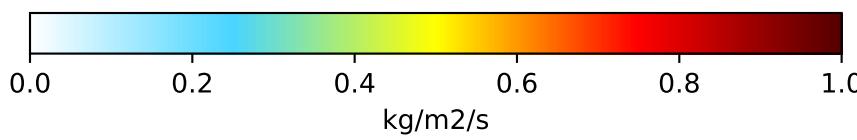
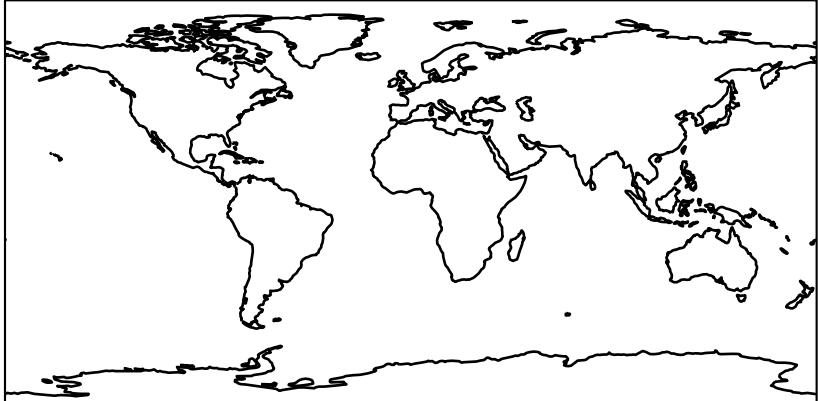
Ratio
Dev/Ref, Fixed Range



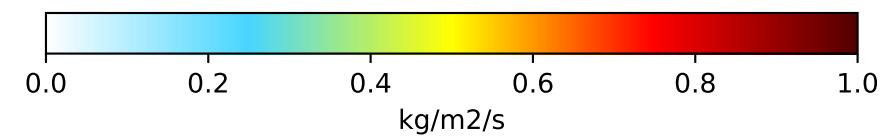
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unitless

EmisCH2O_Total

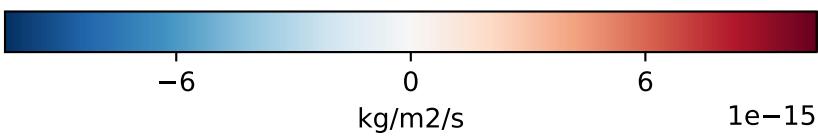
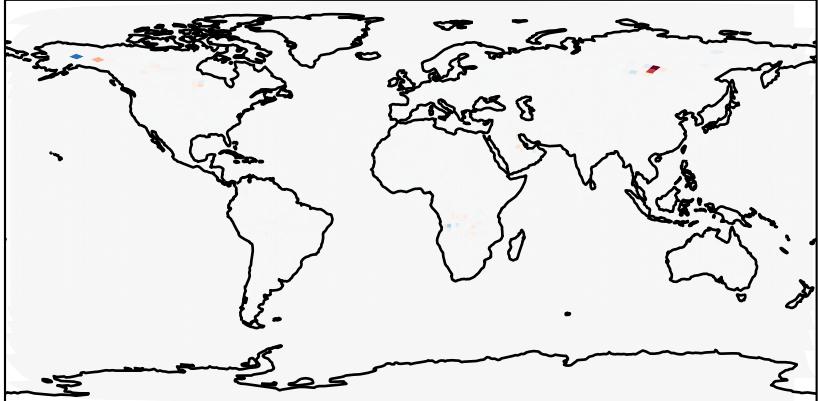
GCHP_13.0.0-rc.2 (Ref)
c48



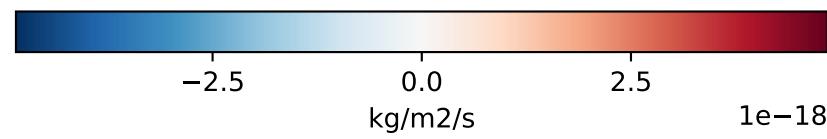
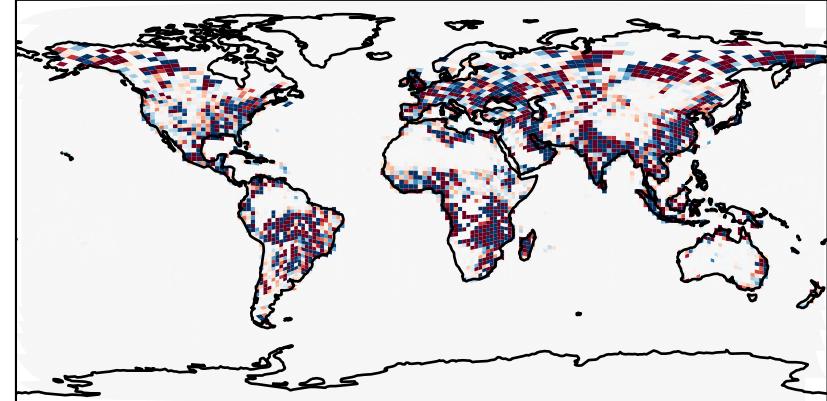
GCHP_13.1.0-beta.1 (Dev)
c48



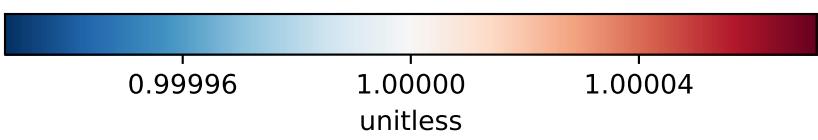
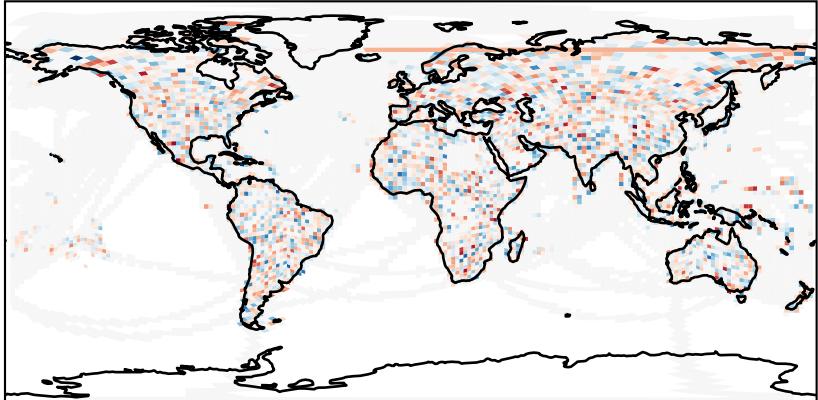
Difference
Dev - Ref, Dynamic Range



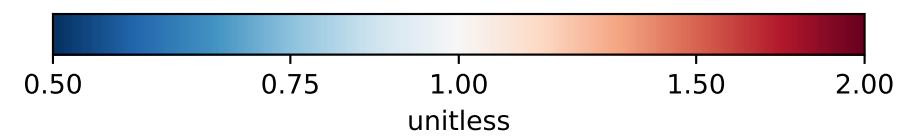
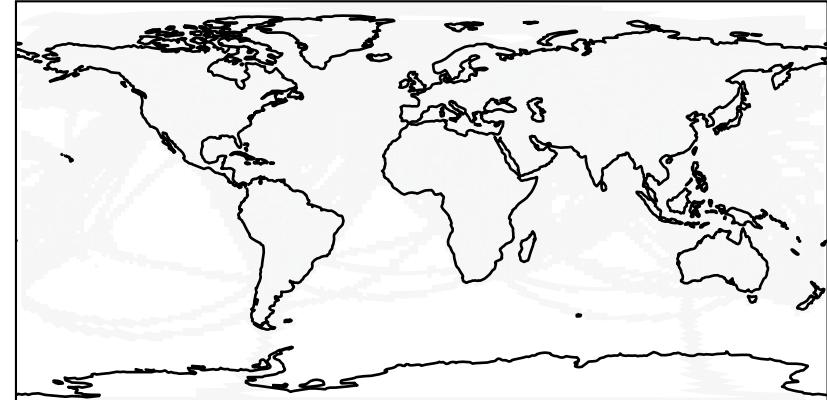
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

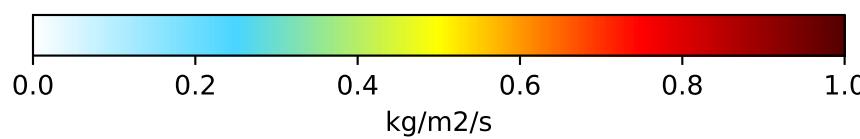
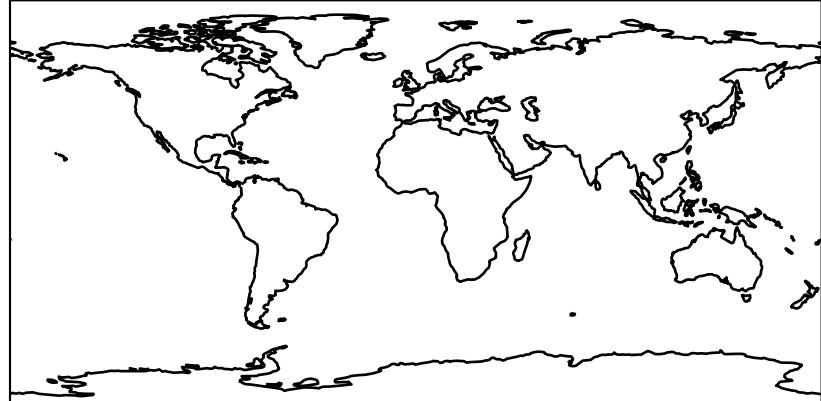


Ratio
Dev/Ref, Fixed Range

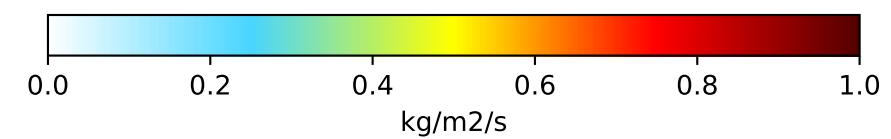


EmisMACR_Aircraft

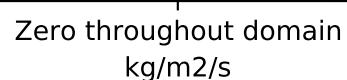
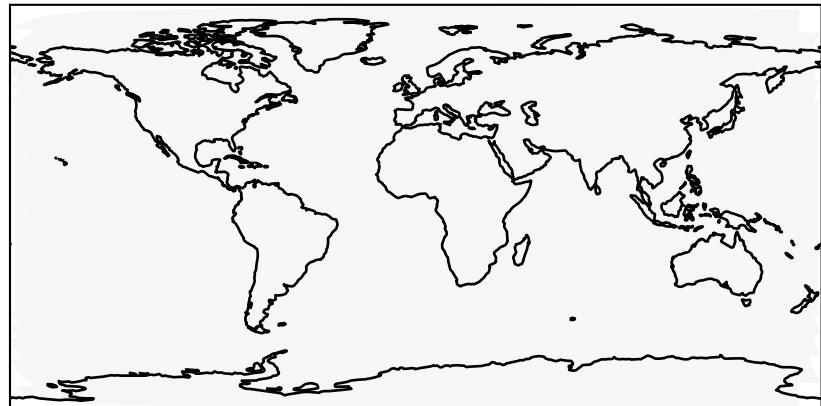
GCHP_13.0.0-rc.2 (Ref)
c48



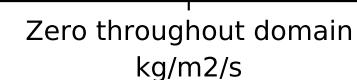
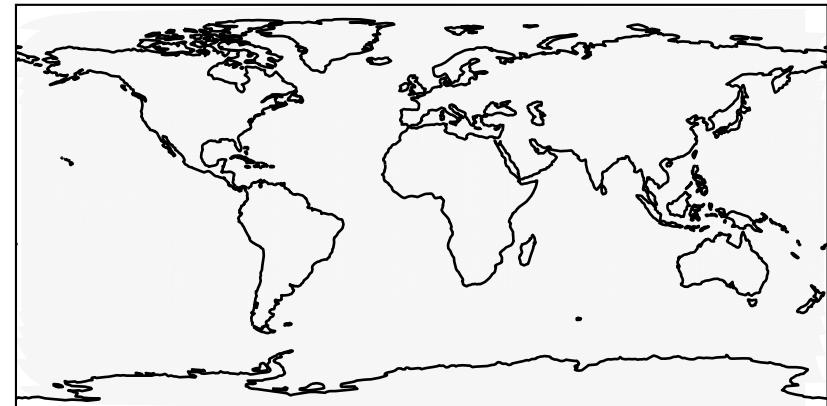
GCHP_13.1.0-beta.1 (Dev)
c48



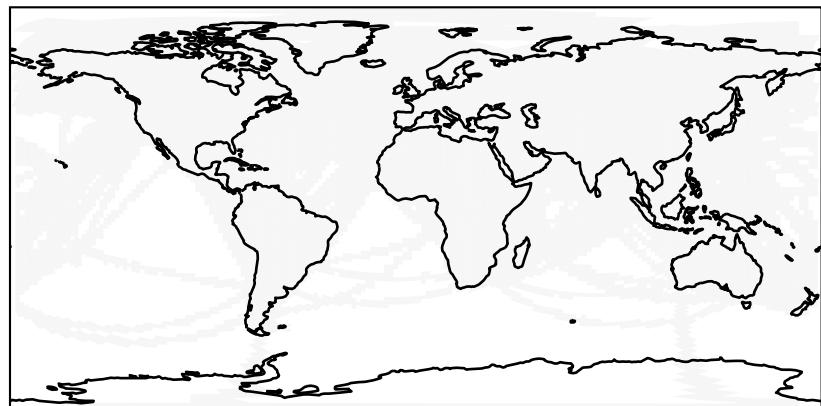
Difference
Dev - Ref, Dynamic Range



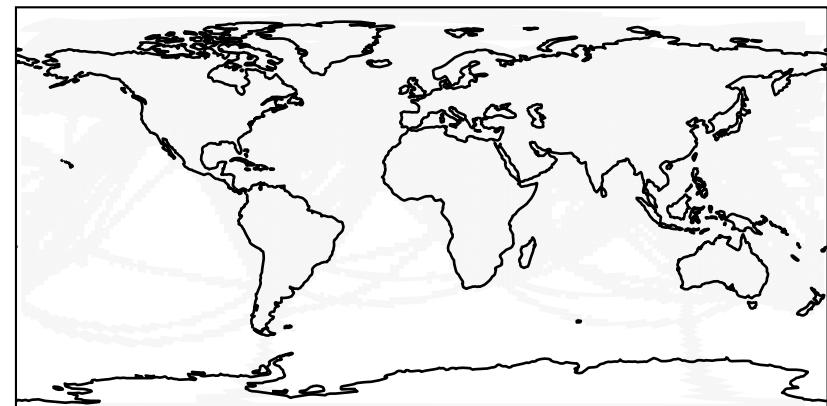
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

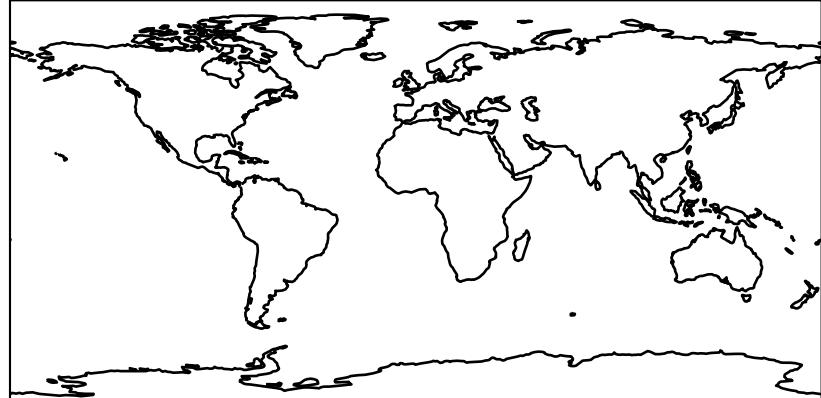


Ratio
Dev/Ref, Fixed Range



EmisMACR_Anthro

GCHP_13.0.0-rc.2 (Ref)
c48



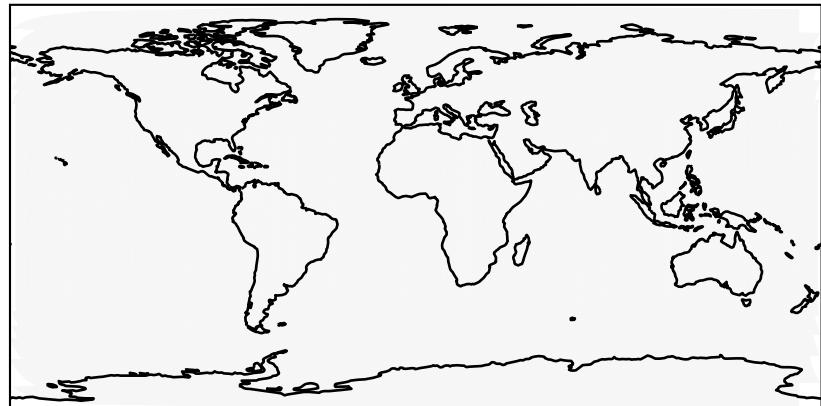
Zero throughout domain
kg/m²/s

GCHP_13.1.0-beta.1 (Dev)
c48



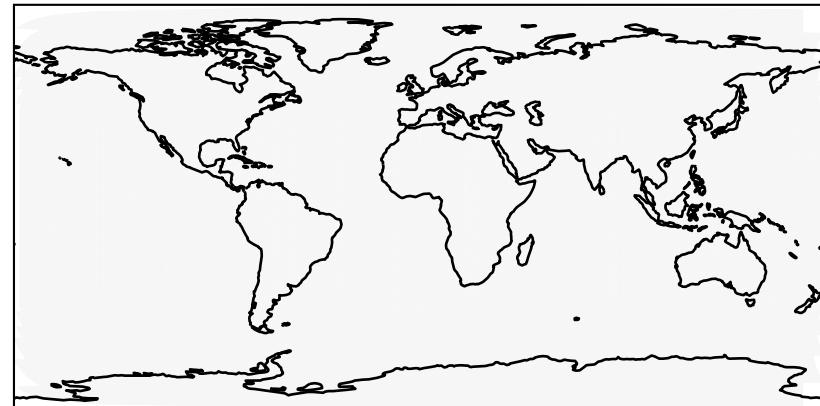
Zero throughout domain
kg/m²/s

Difference
Dev - Ref, Dynamic Range



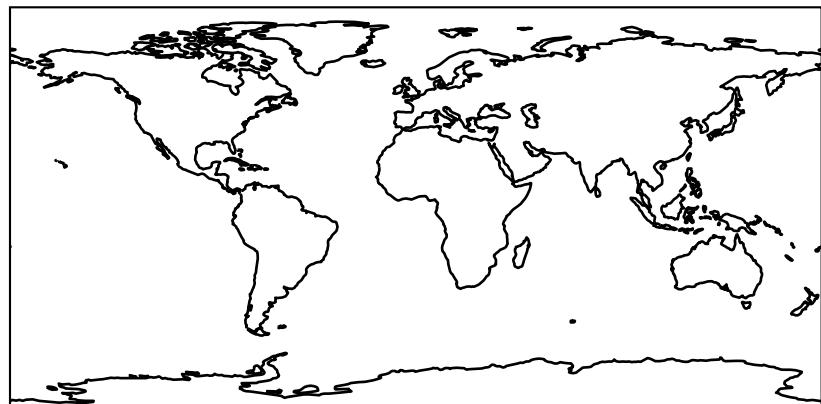
Zero throughout domain
kg/m²/s

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



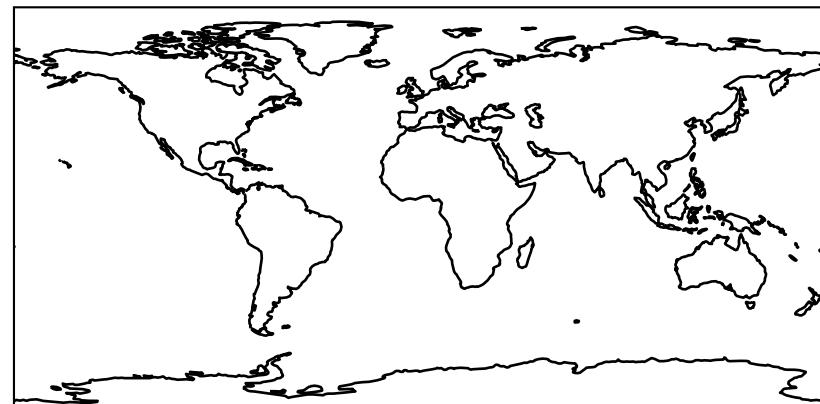
Zero throughout domain
kg/m²/s

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

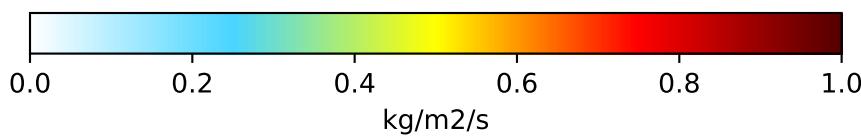
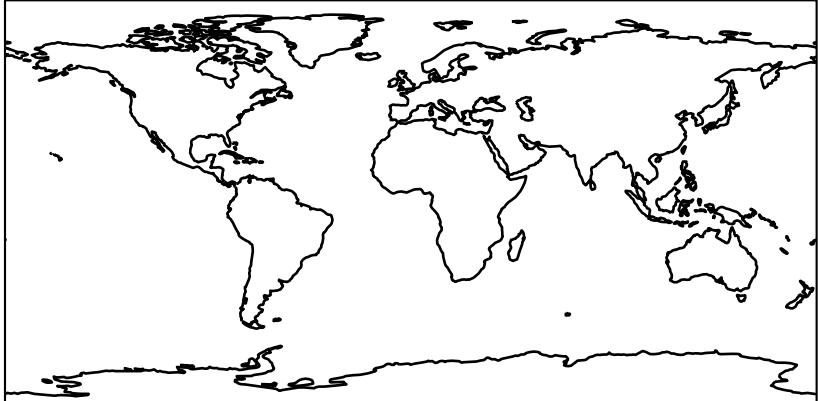
Ratio
Dev/Ref, Fixed Range



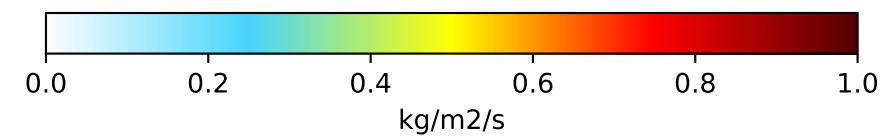
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unitless

EmisMACR_Total

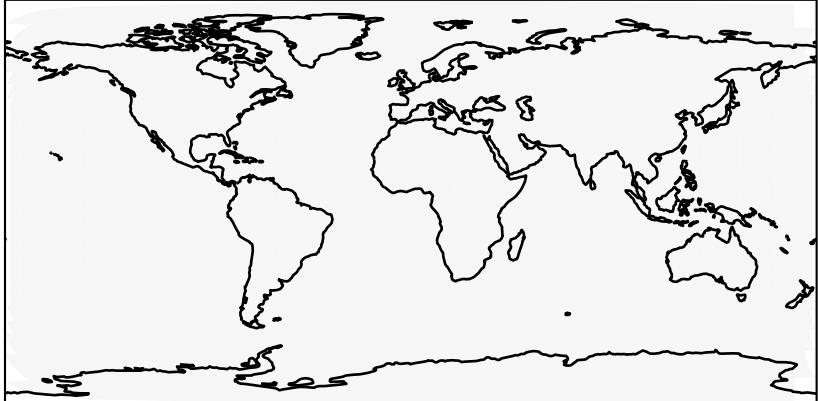
GCHP_13.0.0-rc.2 (Ref)
c48



GCHP_13.1.0-beta.1 (Dev)
c48

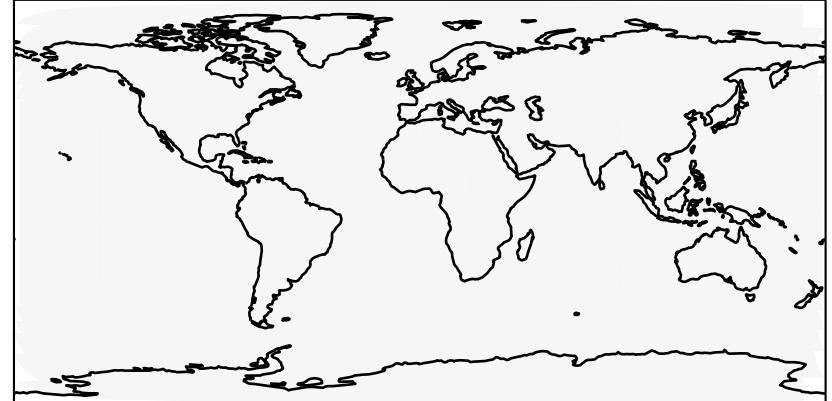


Difference
Dev - Ref, Dynamic Range



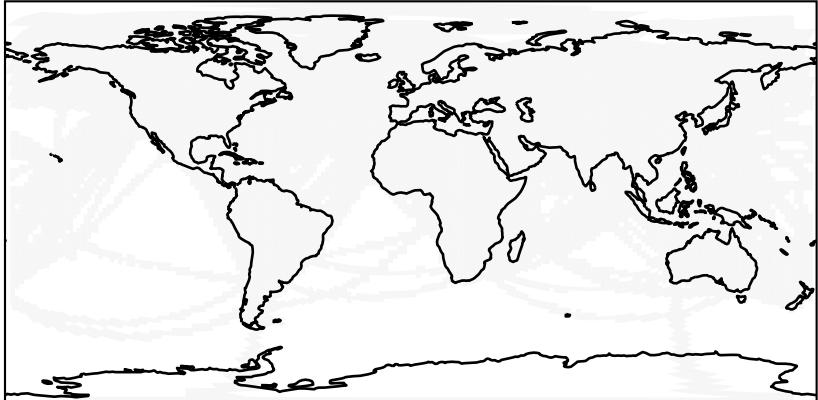
Zero throughout domain
kg/m²/s

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



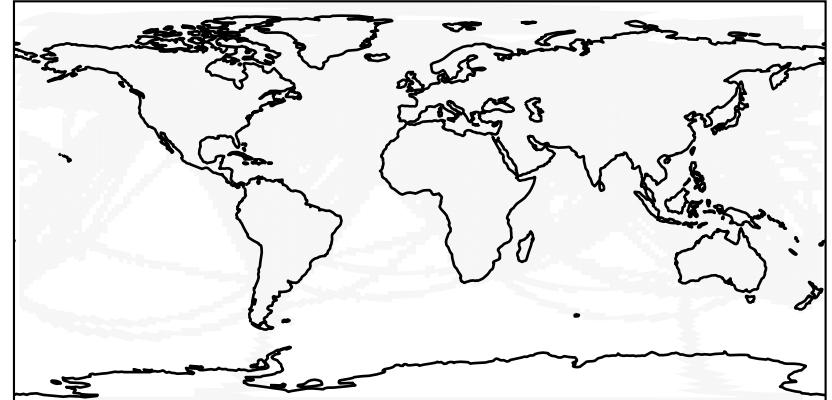
Zero throughout domain
kg/m²/s

Ratio
Dev/Ref, Dynamic Range



0.90 0.96 1.02 1.08
unitless

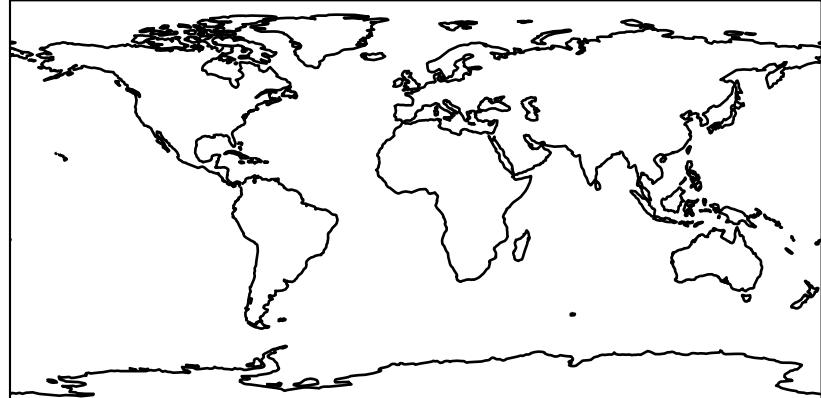
Ratio
Dev/Ref, Fixed Range



0.50 0.75 1.00 1.50 2.00
unitless

EmisACET_Anthro

GCHP_13.0.0-rc.2 (Ref)
c48



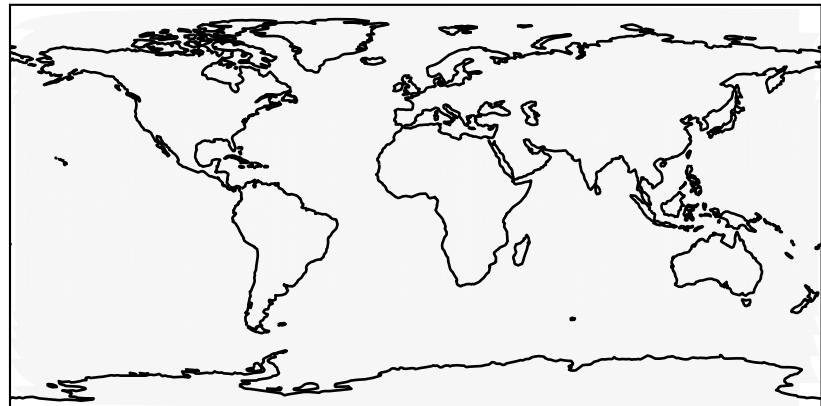
Zero throughout domain
kg/m²/s

GCHP_13.1.0-beta.1 (Dev)
c48



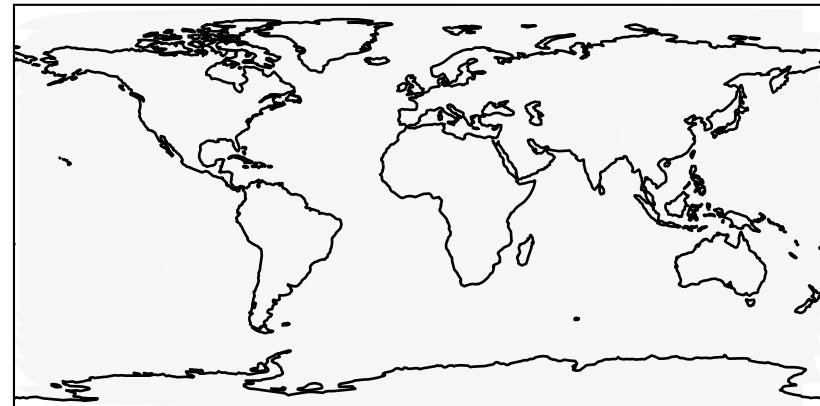
Zero throughout domain
kg/m²/s

Difference
Dev - Ref, Dynamic Range



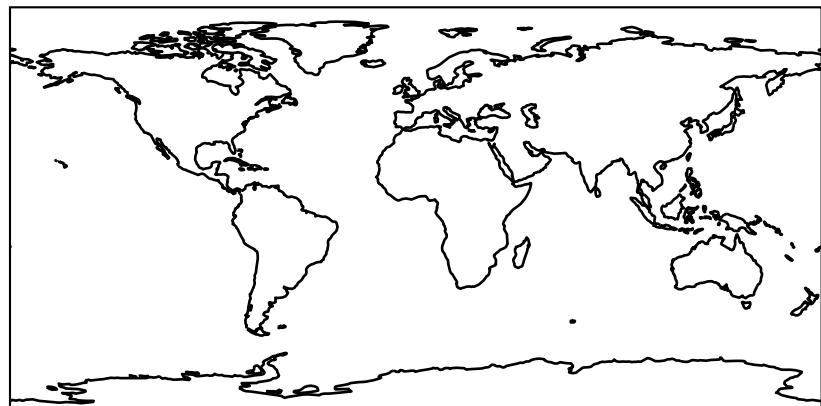
Zero throughout domain
kg/m²/s

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



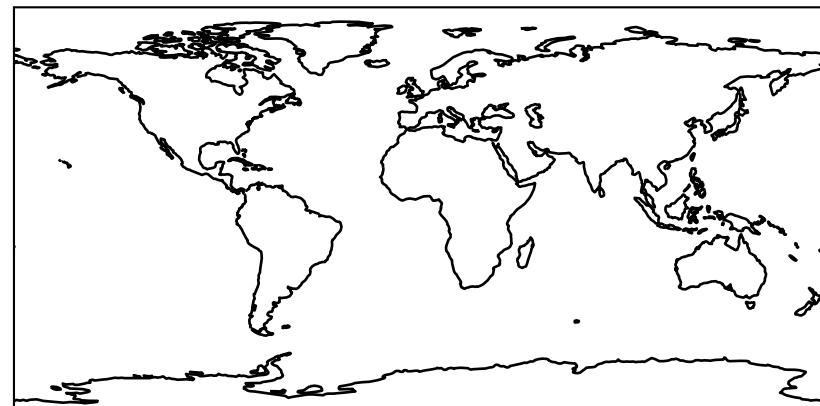
Zero throughout domain
kg/m²/s

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

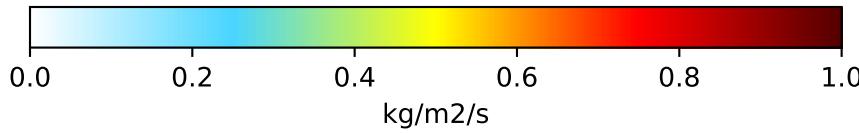
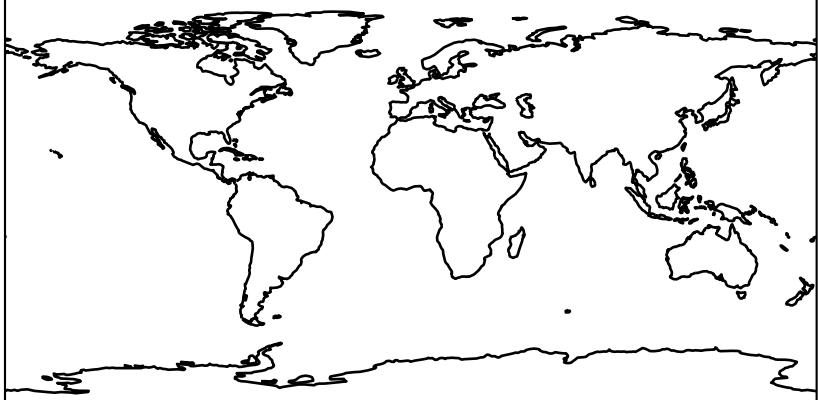
Ratio
Dev/Ref, Fixed Range



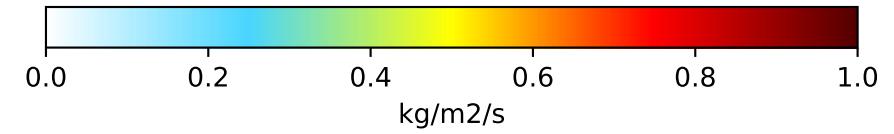
Undefined throughout domain
unitless

EmisACET_BioBurn

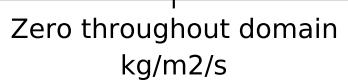
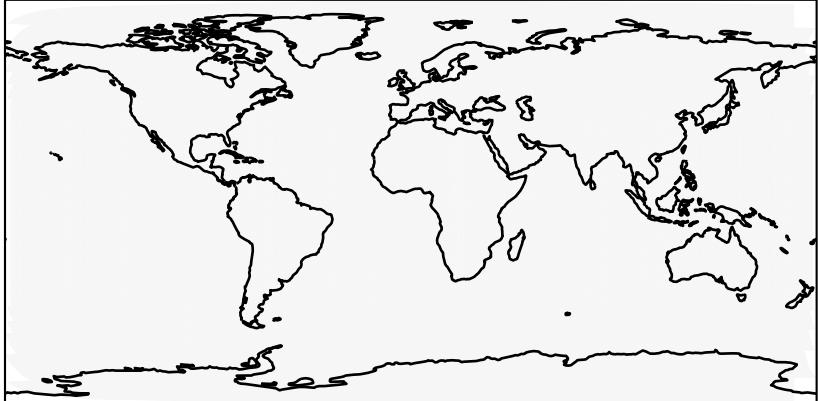
GCHP_13.0.0-rc.2 (Ref)
c48



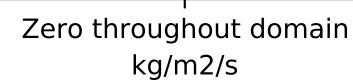
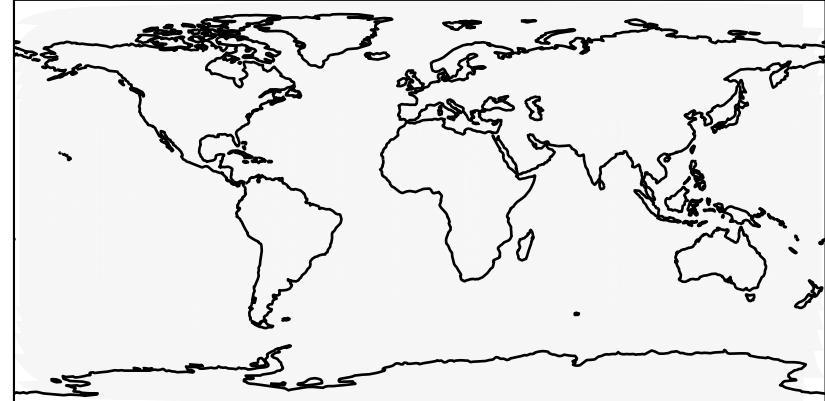
GCHP_13.1.0-beta.1 (Dev)
c48



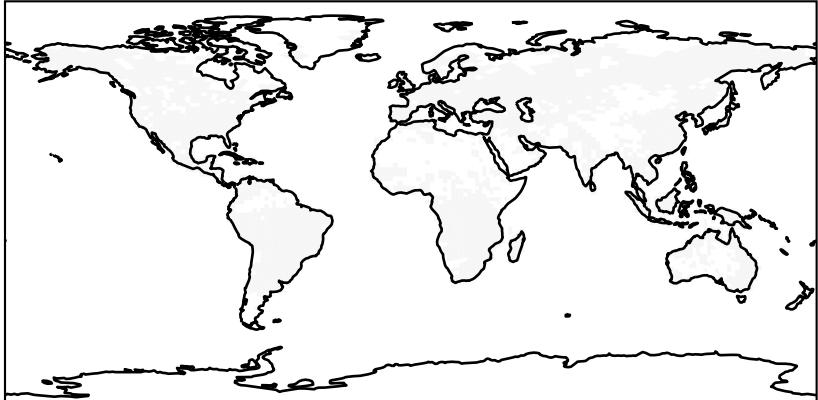
Difference
Dev - Ref, Dynamic Range



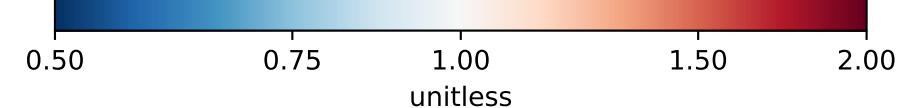
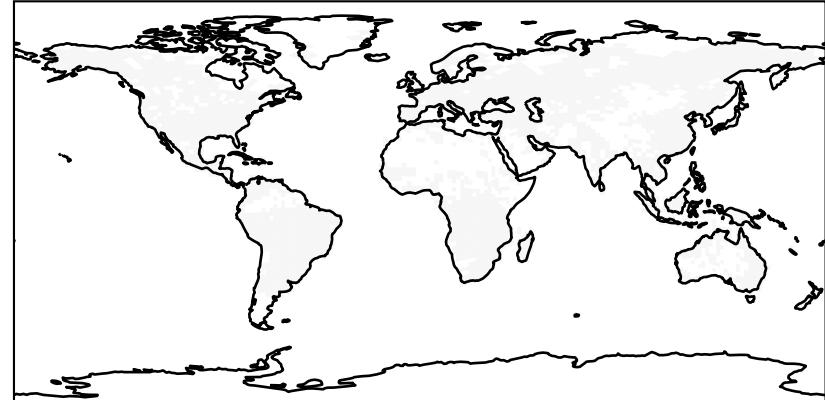
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

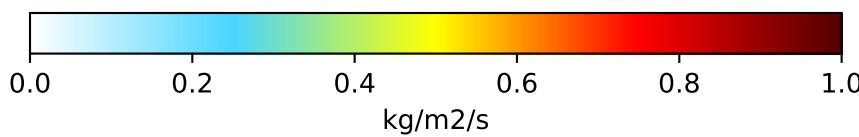
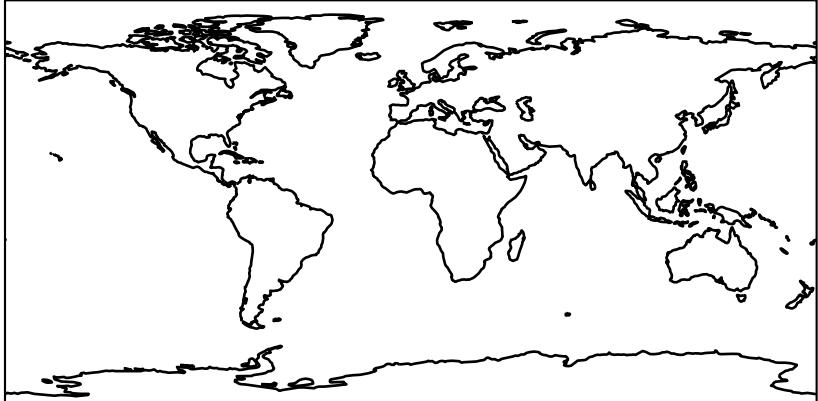


Ratio
Dev/Ref, Fixed Range

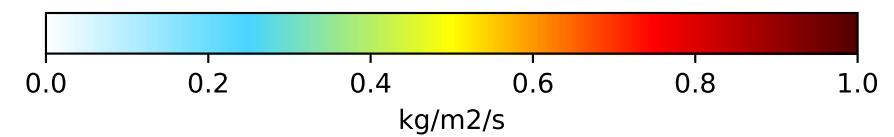


EmisACET_Biogenic

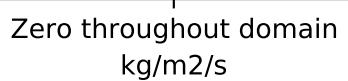
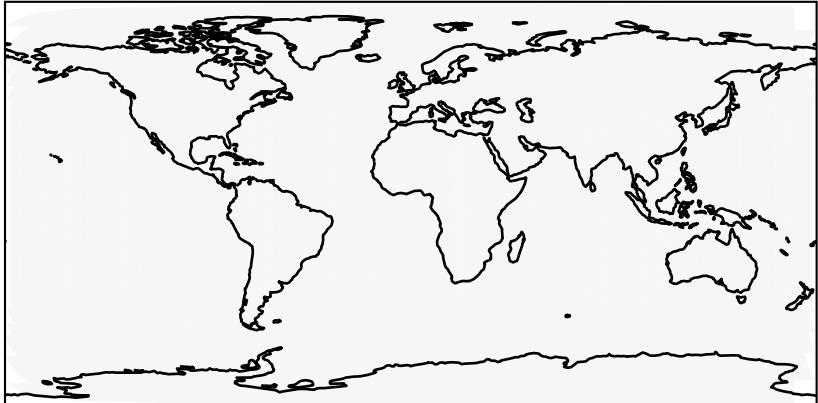
GCHP_13.0.0-rc.2 (Ref)
c48



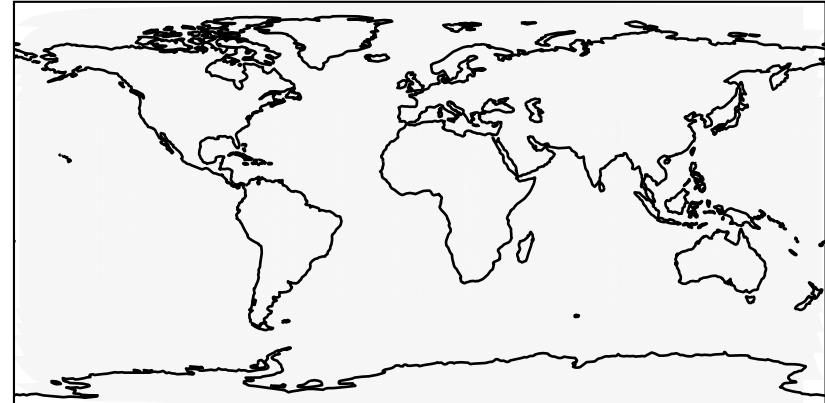
GCHP_13.1.0-beta.1 (Dev)
c48



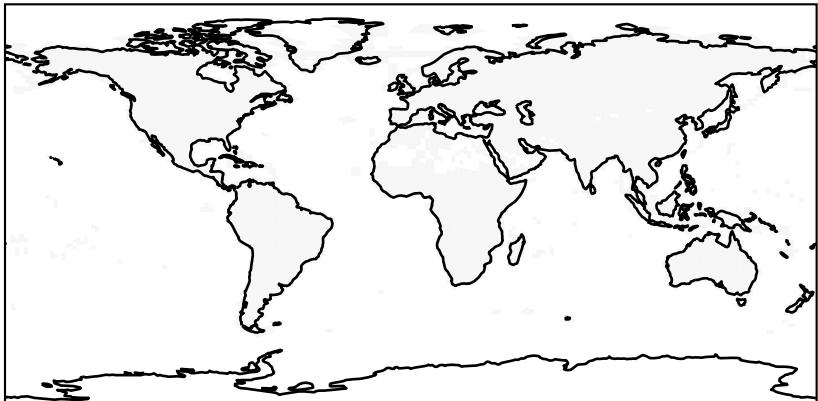
Difference
Dev - Ref, Dynamic Range



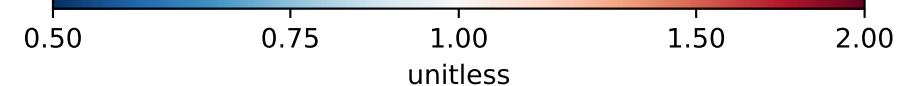
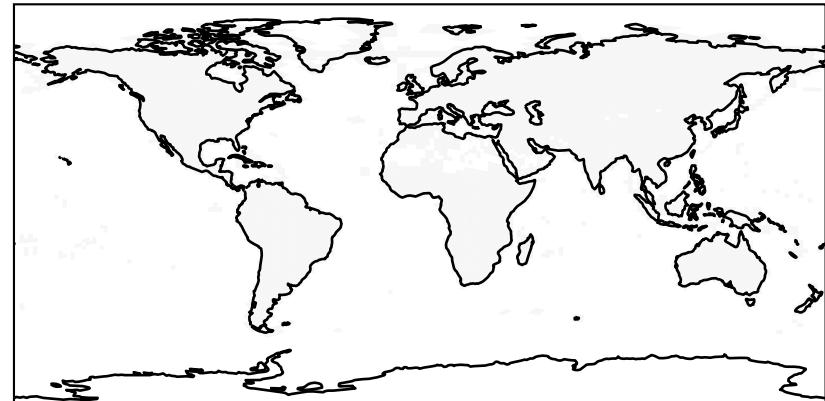
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

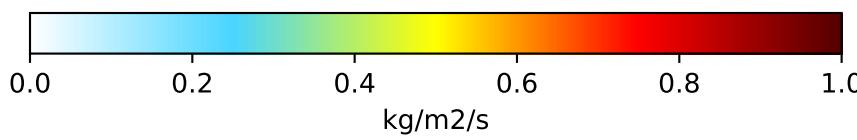
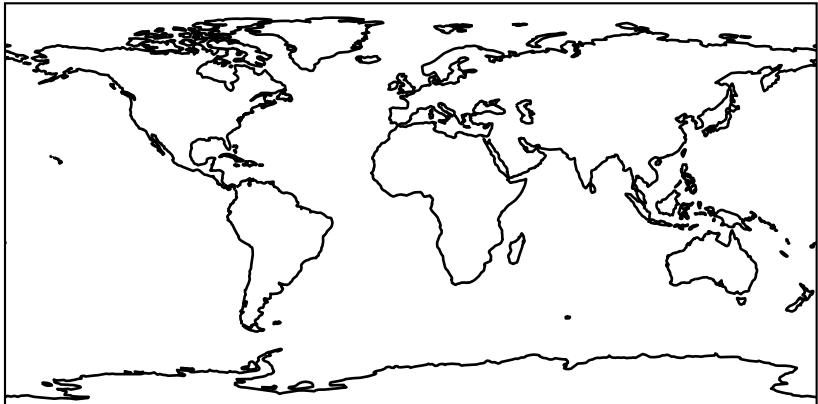


Ratio
Dev/Ref, Fixed Range

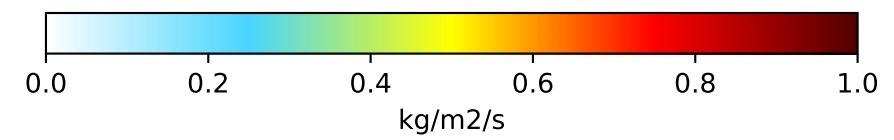
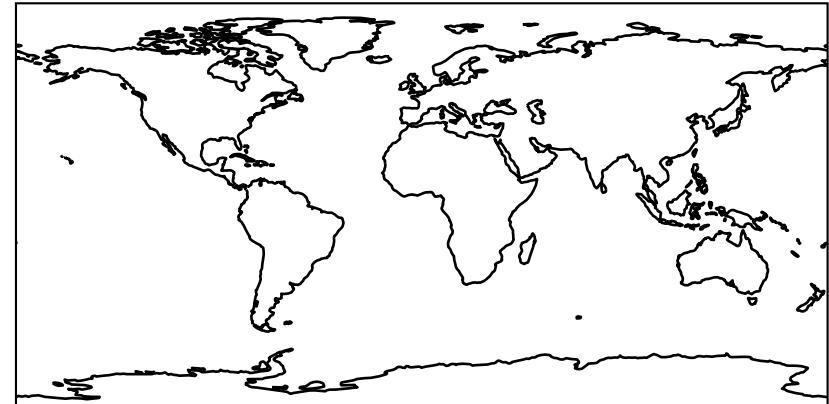


EmisACET_Ocean

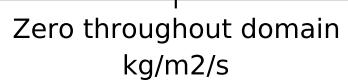
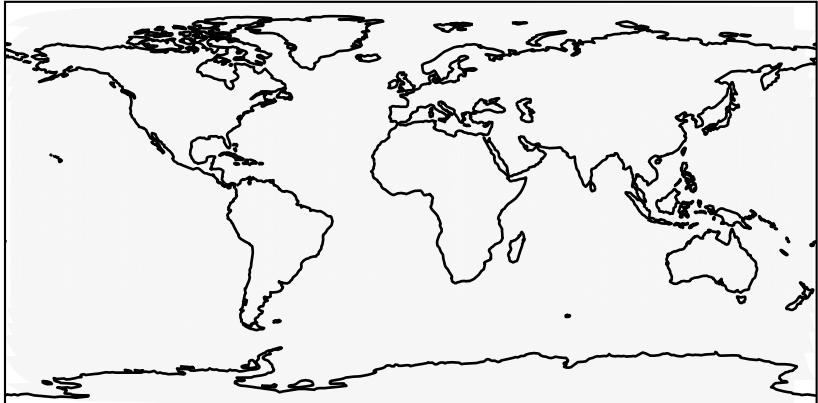
GCHP_13.0.0-rc.2 (Ref)
c48



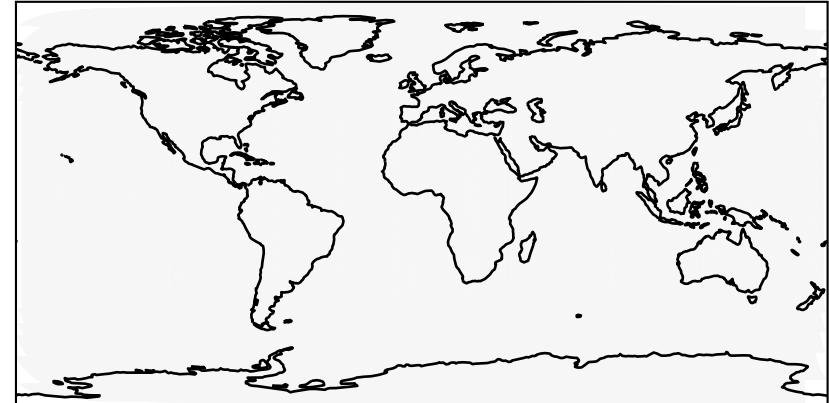
GCHP_13.1.0-beta.1 (Dev)
c48



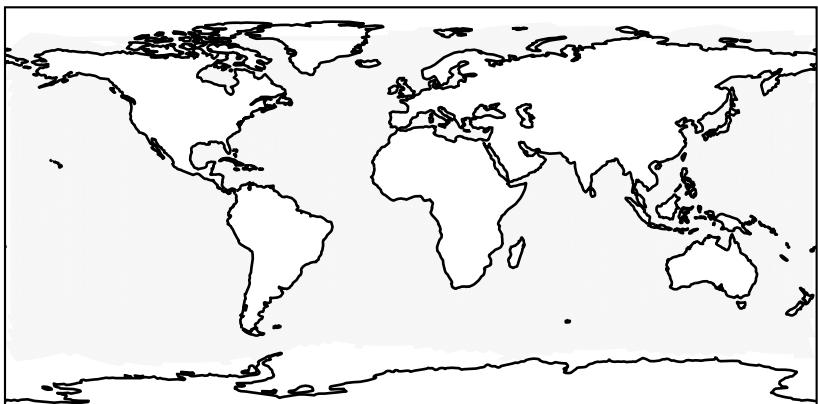
Difference
Dev - Ref, Dynamic Range



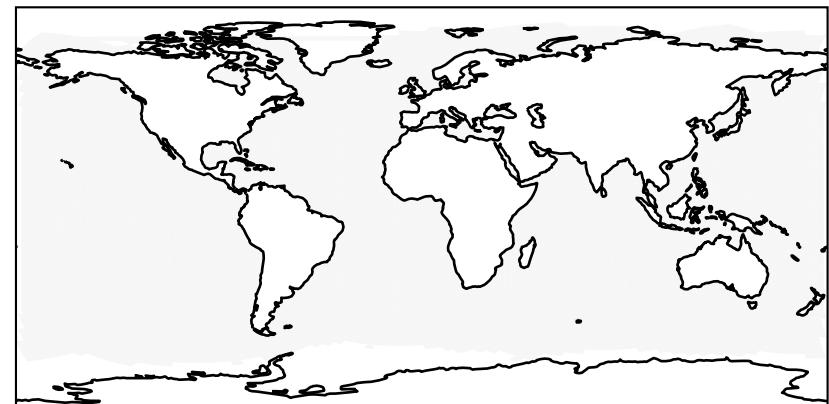
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

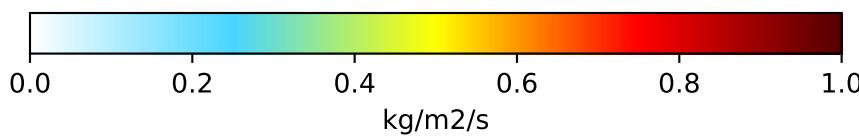
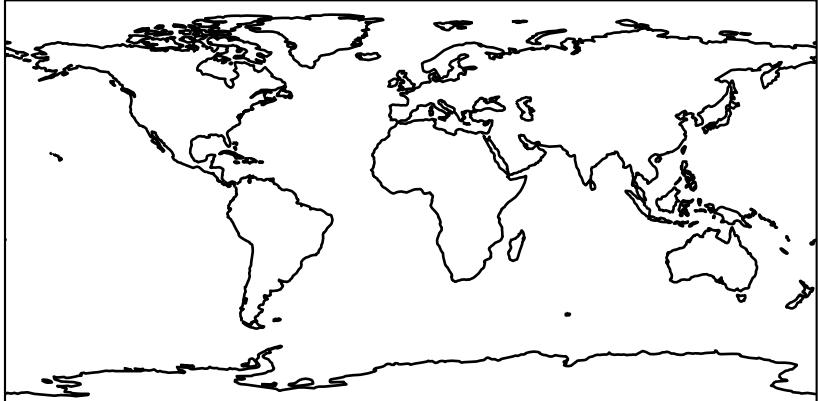


Ratio
Dev/Ref, Fixed Range

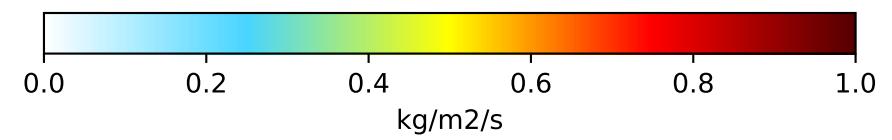


EmisACET_Total

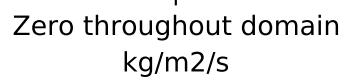
GCHP_13.0.0-rc.2 (Ref)
c48



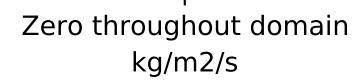
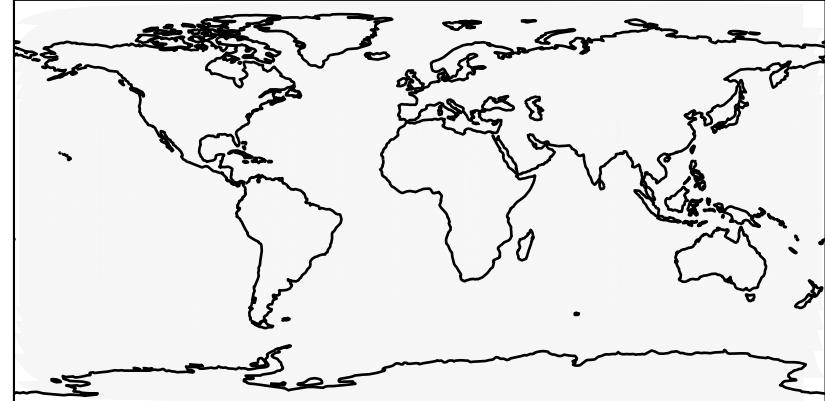
GCHP_13.1.0-beta.1 (Dev)
c48



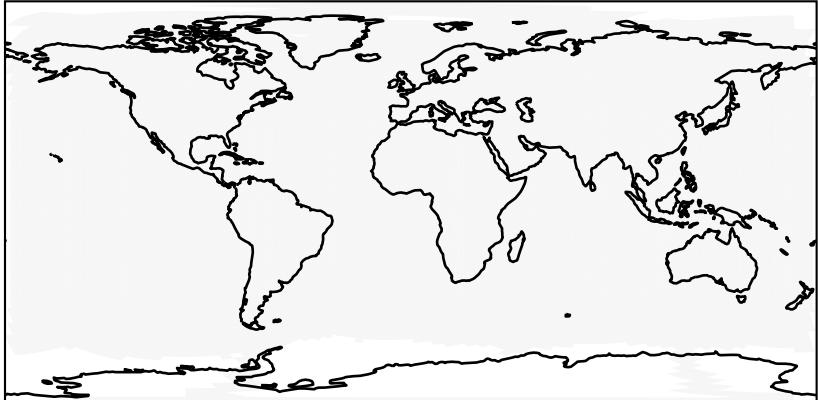
Difference
Dev - Ref, Dynamic Range



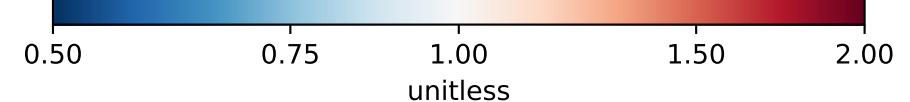
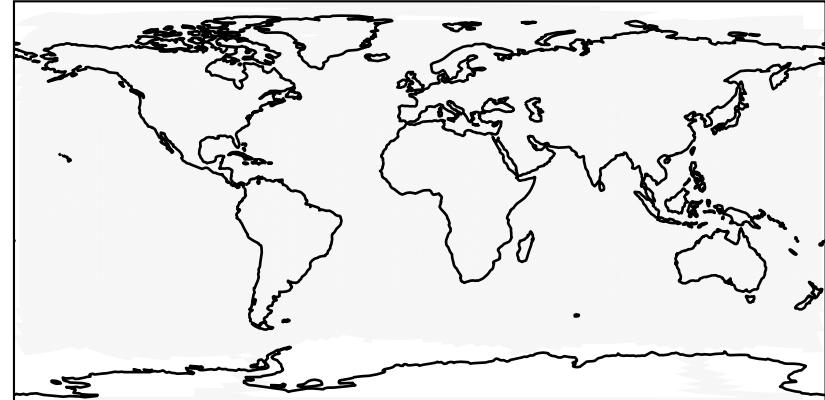
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

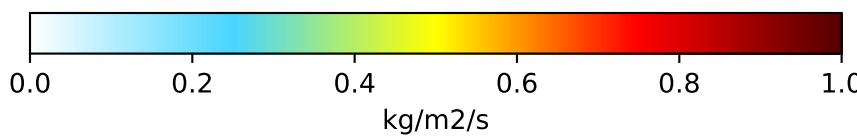
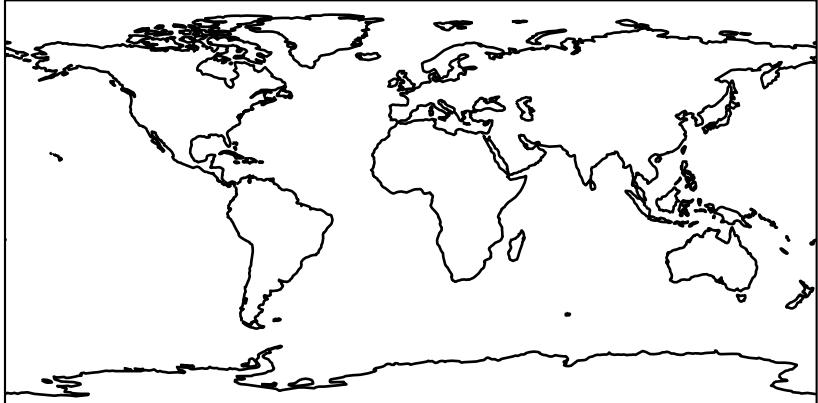


Ratio
Dev/Ref, Fixed Range

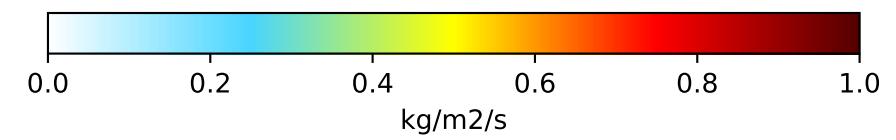


EmisMEK_Anthro

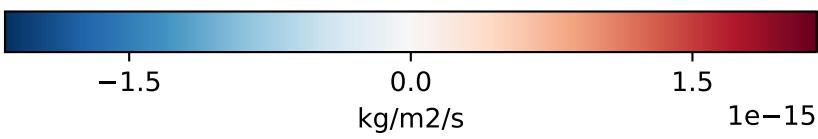
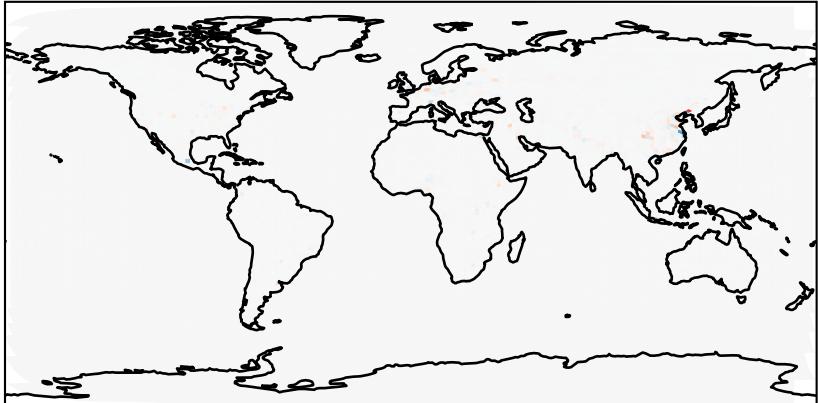
GCHP_13.0.0-rc.2 (Ref)
c48



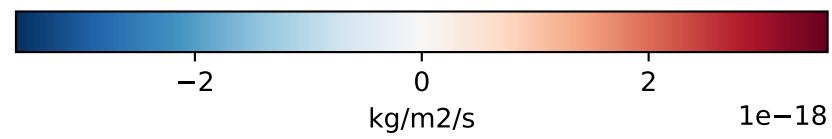
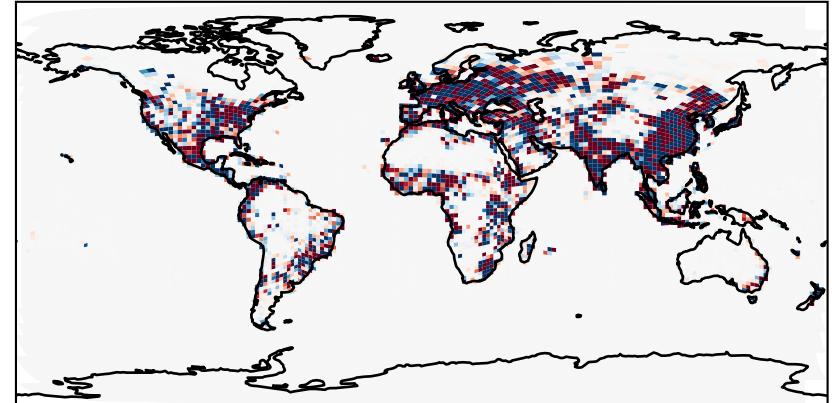
GCHP_13.1.0-beta.1 (Dev)
c48



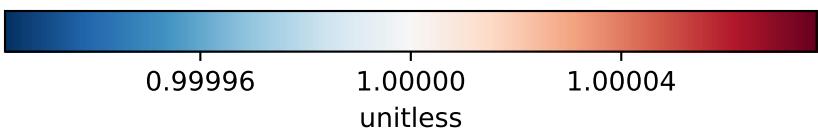
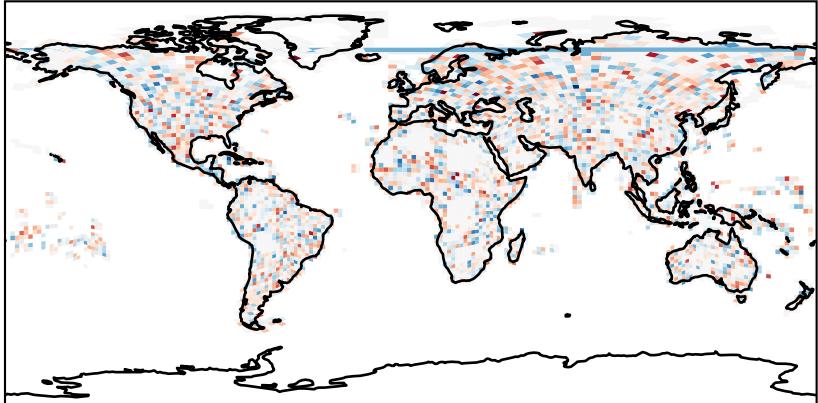
Difference
Dev - Ref, Dynamic Range



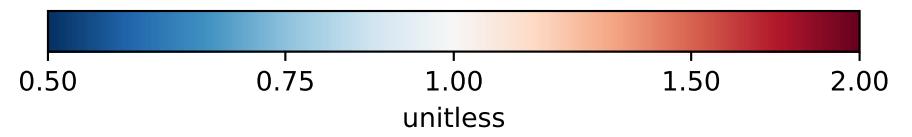
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

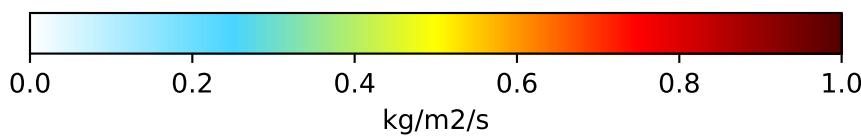
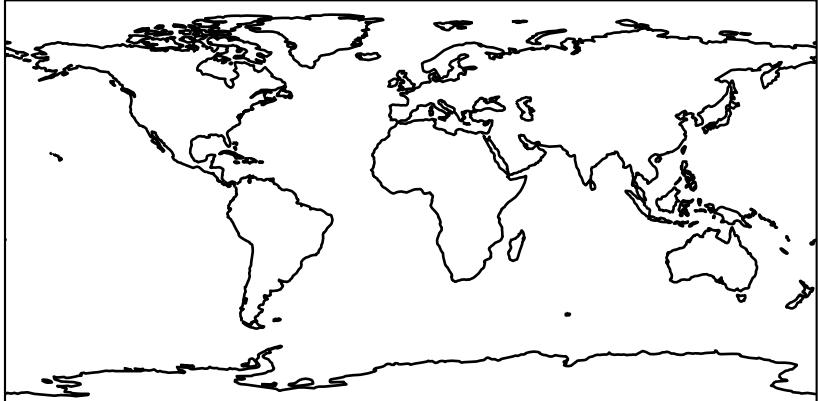


Ratio
Dev/Ref, Fixed Range

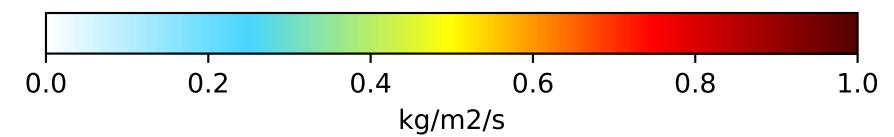
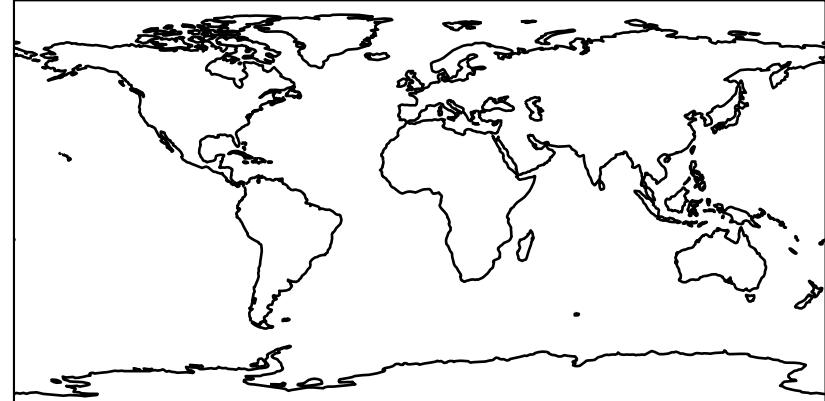


EmisMEK_BioBurn

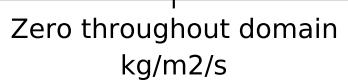
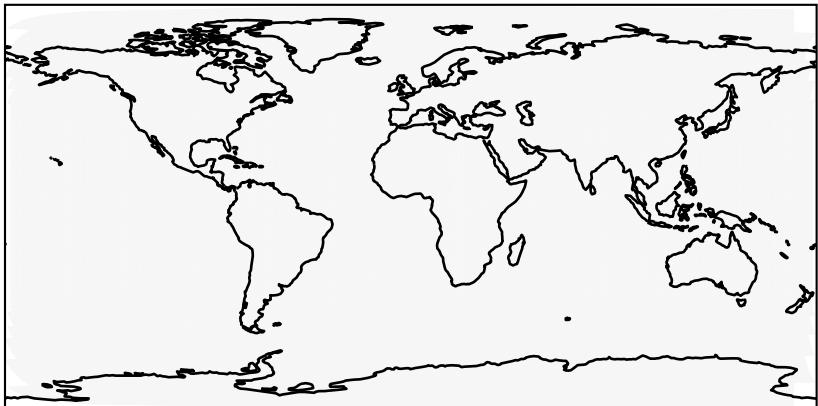
GCHP_13.0.0-rc.2 (Ref)
c48



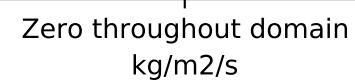
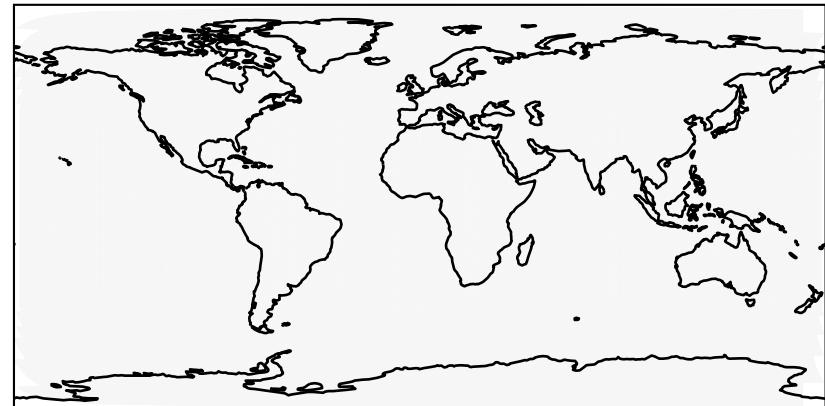
GCHP_13.1.0-beta.1 (Dev)
c48



Difference
Dev - Ref, Dynamic Range



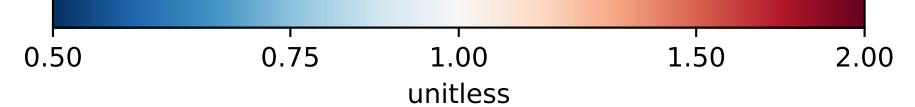
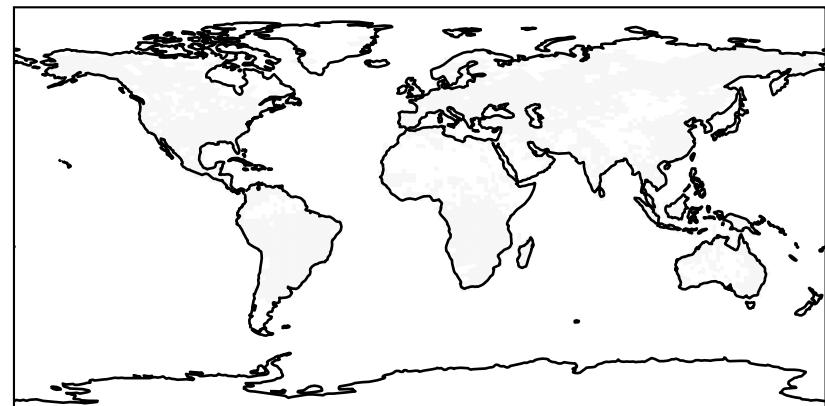
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

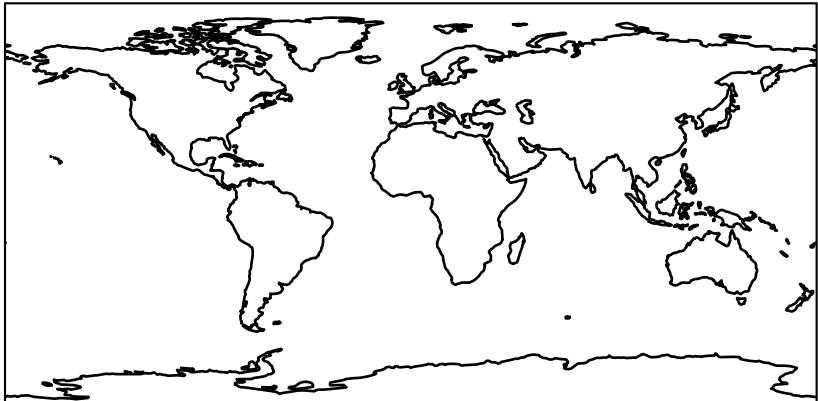


Ratio
Dev/Ref, Fixed Range



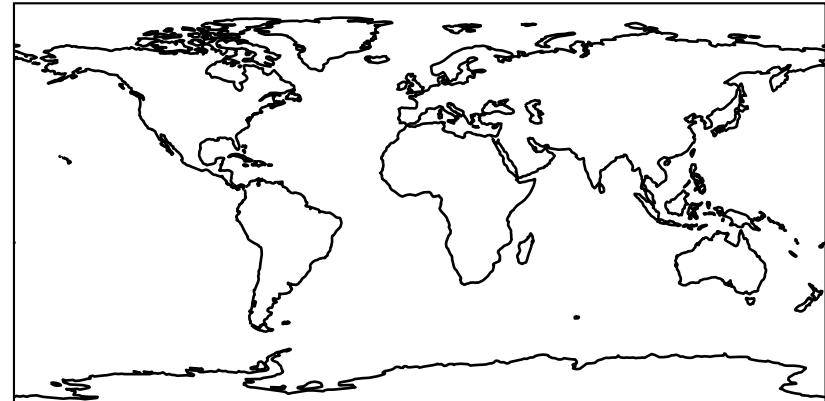
EmisMEK_Ship

GCHP_13.0.0-rc.2 (Ref)
c48



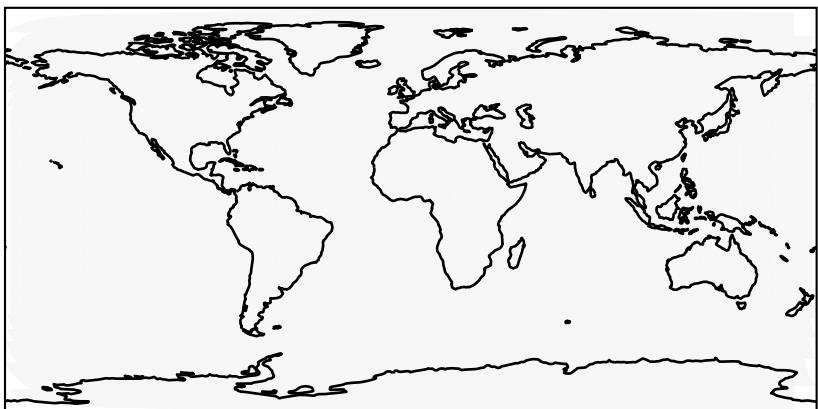
Zero throughout domain
kg/m²/s

GCHP_13.1.0-beta.1 (Dev)
c48



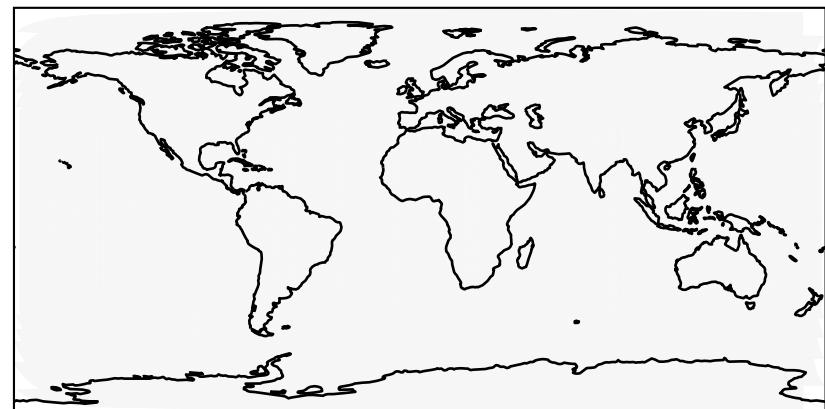
Zero throughout domain
kg/m²/s

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

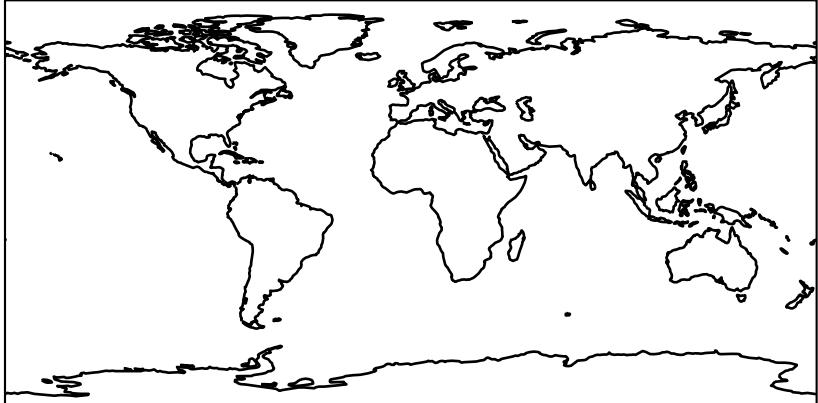
Ratio
Dev/Ref, Fixed Range



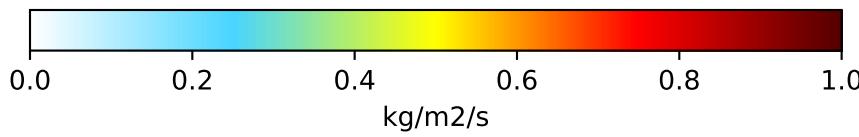
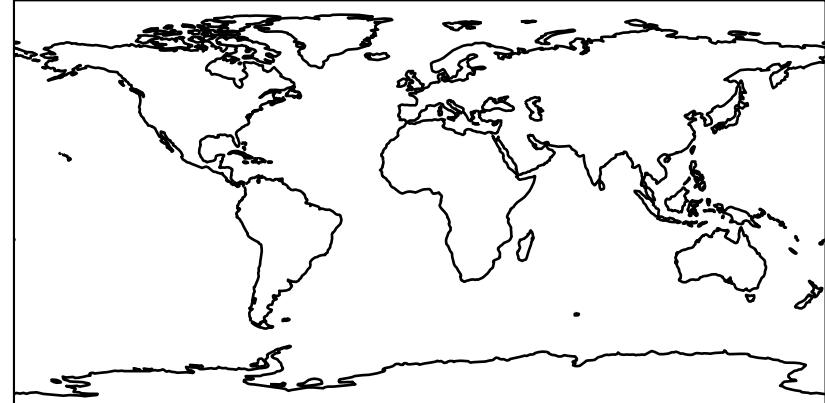
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unitless

EmisMEK_Total

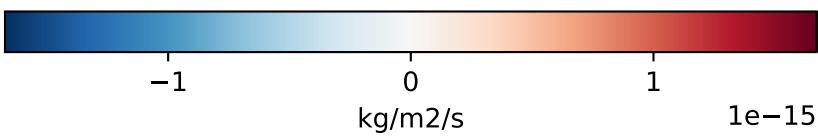
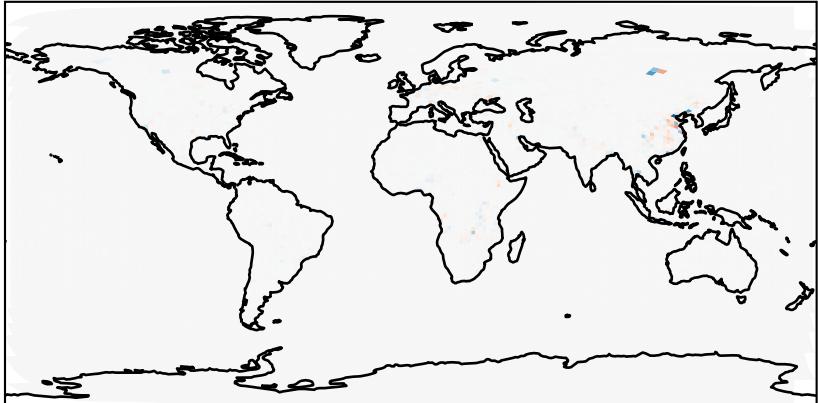
GCHP_13.0.0-rc.2 (Ref)
c48



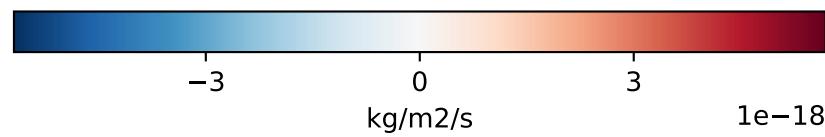
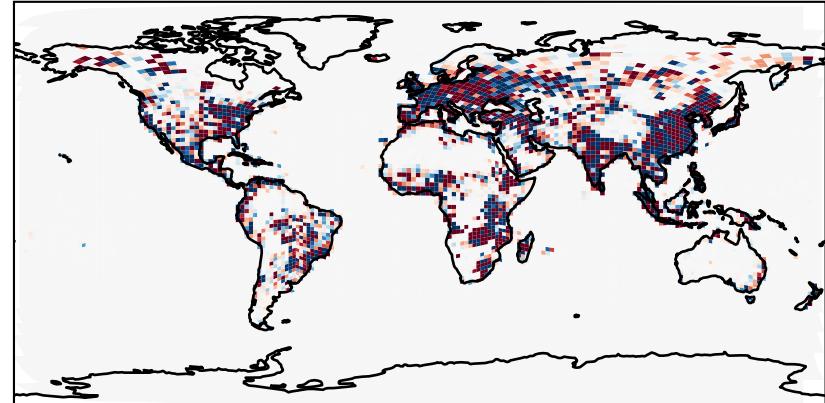
GCHP_13.1.0-beta.1 (Dev)
c48



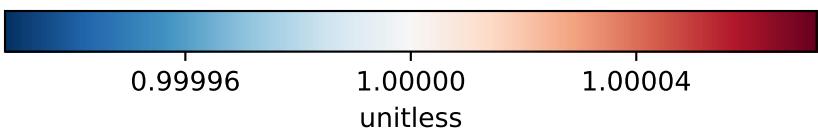
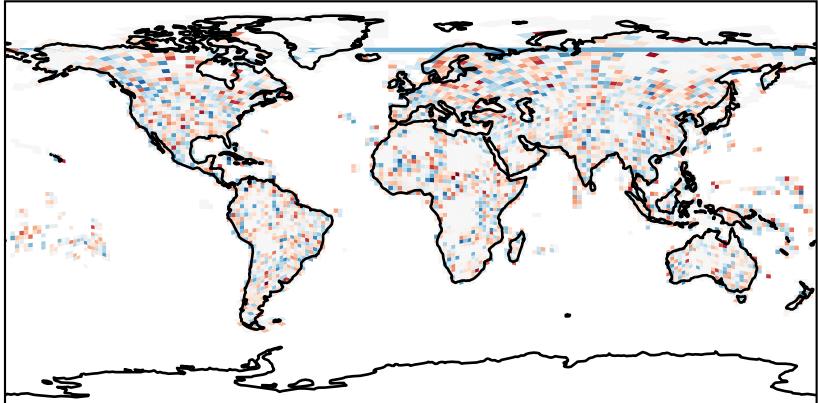
Difference
Dev - Ref, Dynamic Range



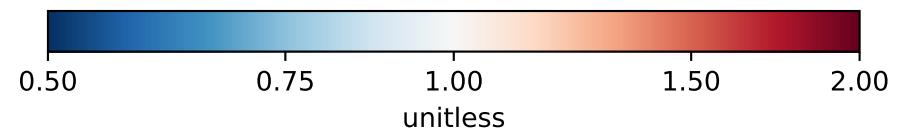
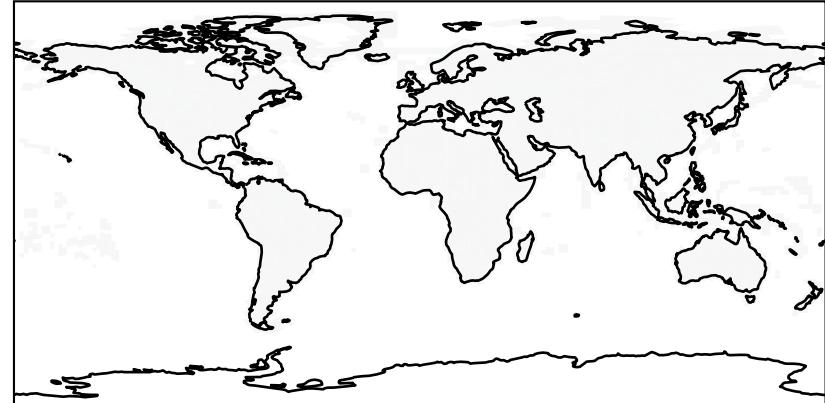
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

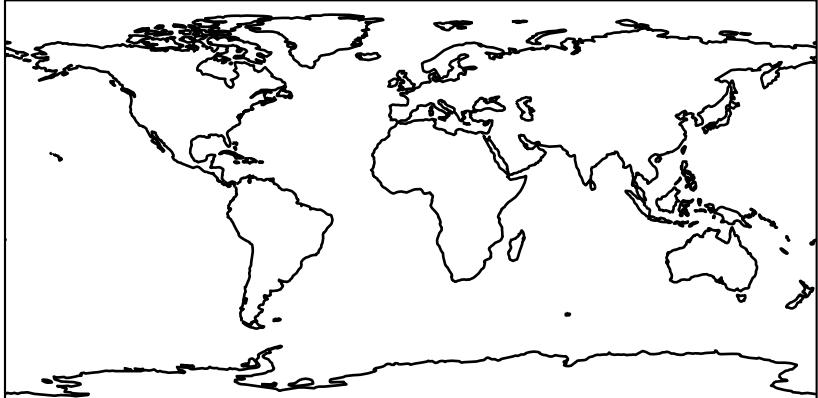


Ratio
Dev/Ref, Fixed Range



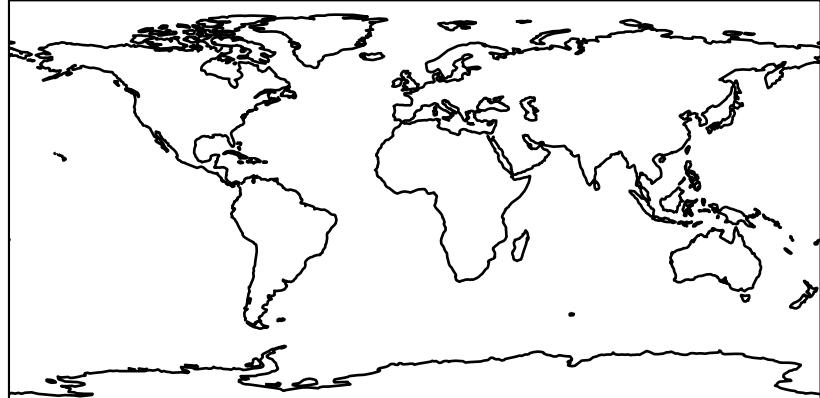
EmisMVK_Anthro

GCHP_13.0.0-rc.2 (Ref)
c48



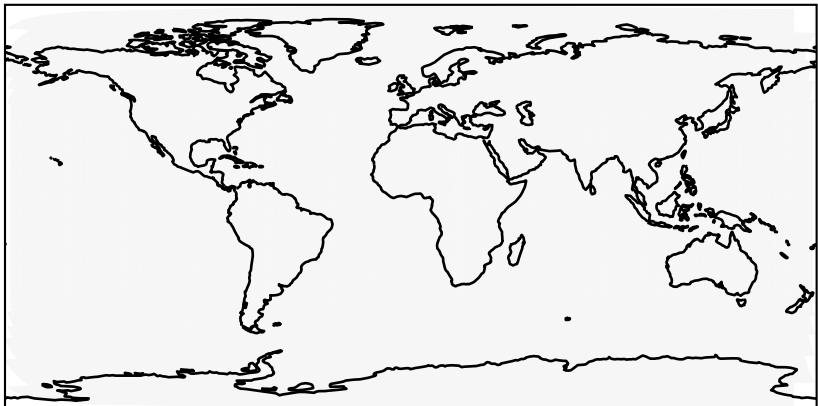
Zero throughout domain
kg/m²/s

GCHP_13.1.0-beta.1 (Dev)
c48



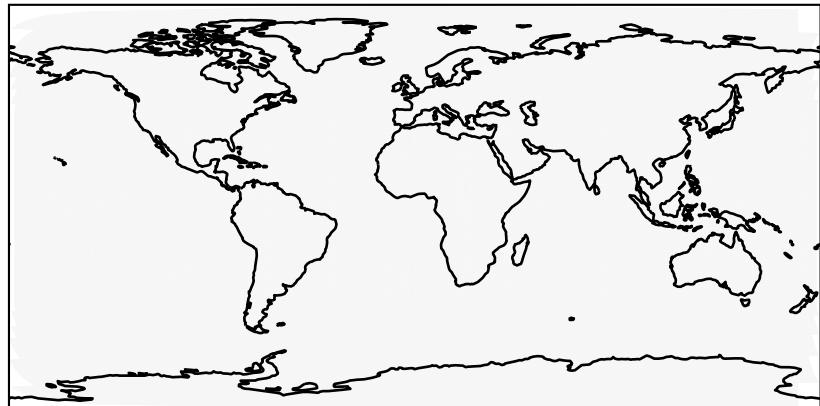
Zero throughout domain
kg/m²/s

Difference
Dev - Ref, Dynamic Range



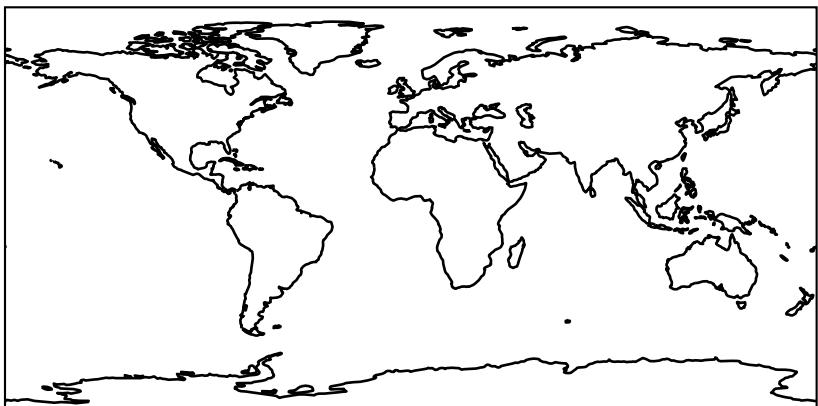
Zero throughout domain
kg/m²/s

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



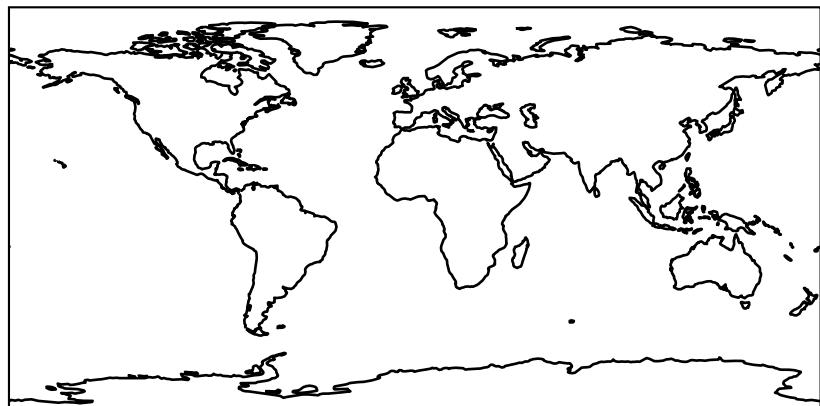
Zero throughout domain
kg/m²/s

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

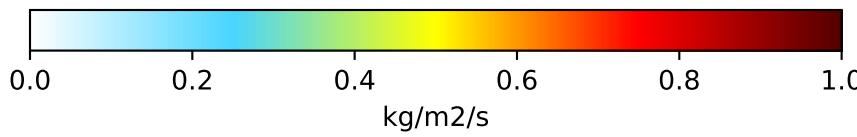
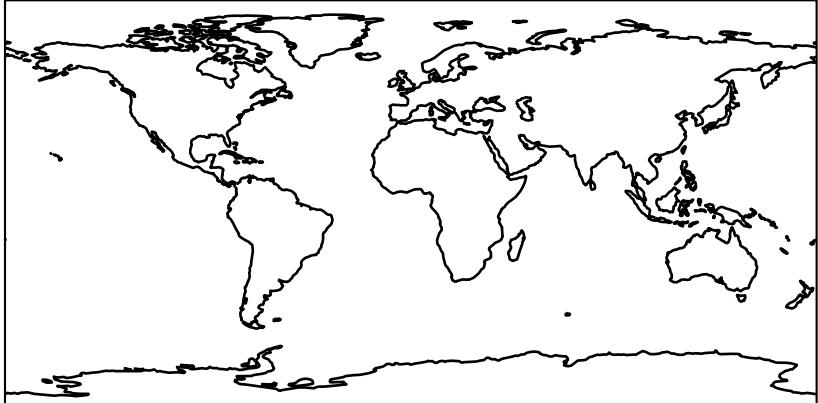
Ratio
Dev/Ref, Fixed Range



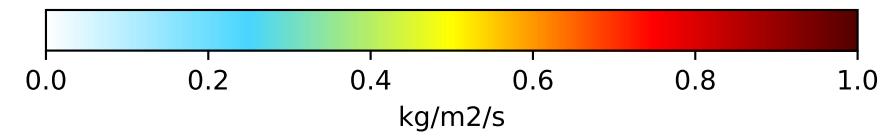
Undefined throughout domain
unitless

EmisHCOOH_Anthro

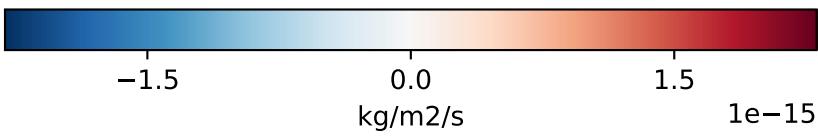
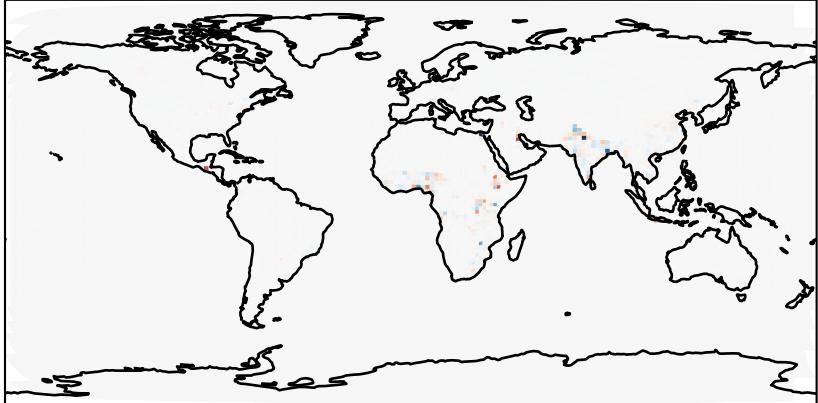
GCHP_13.0.0-rc.2 (Ref)
c48



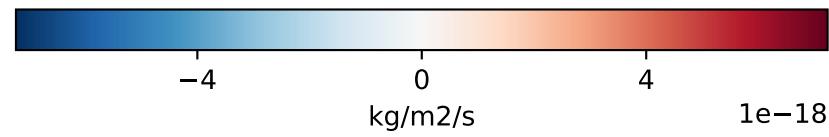
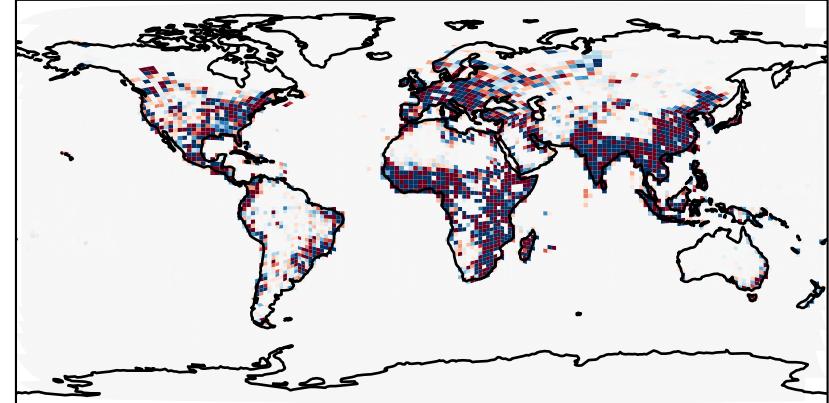
GCHP_13.1.0-beta.1 (Dev)
c48



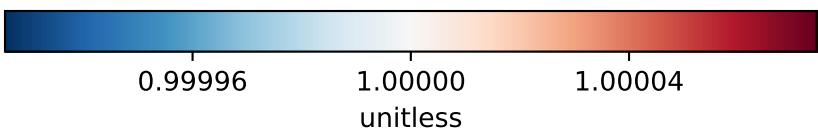
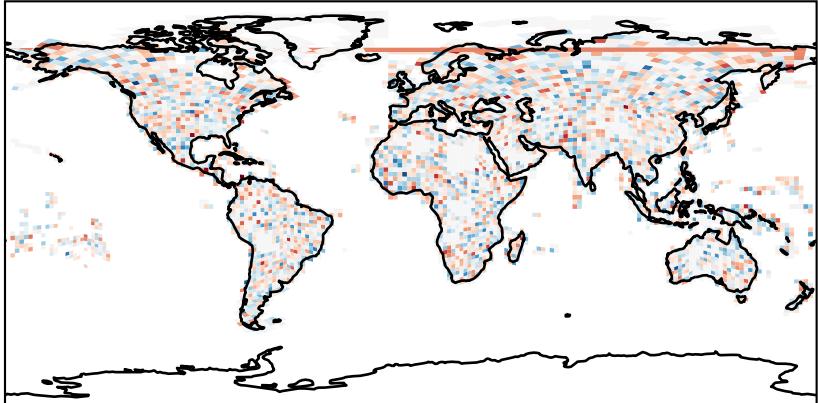
Difference
Dev - Ref, Dynamic Range



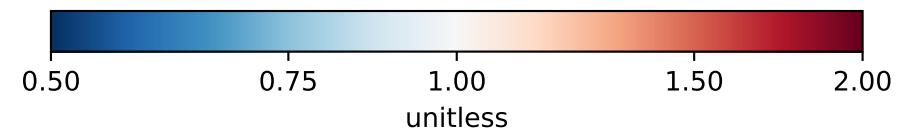
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

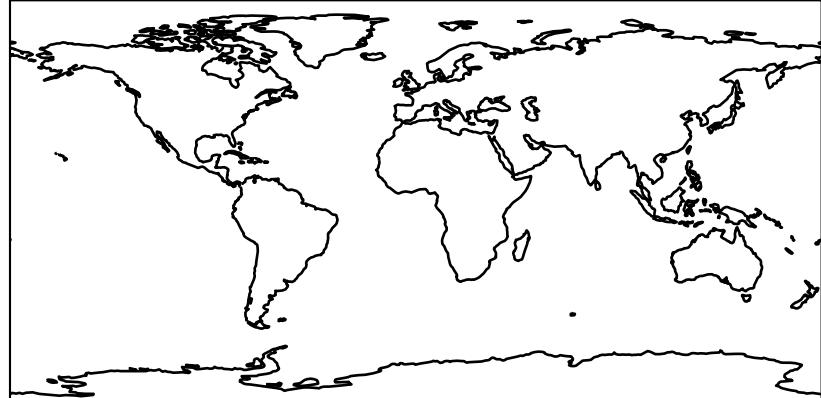


Ratio
Dev/Ref, Fixed Range



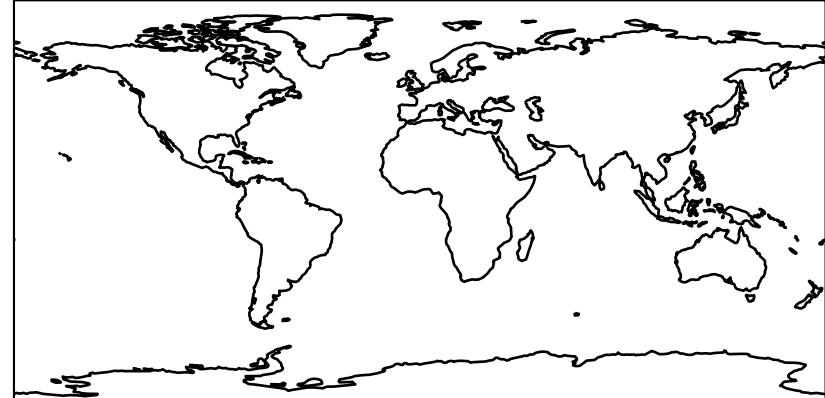
EmisHCOOH_Ship

GCHP_13.0.0-rc.2 (Ref)
c48



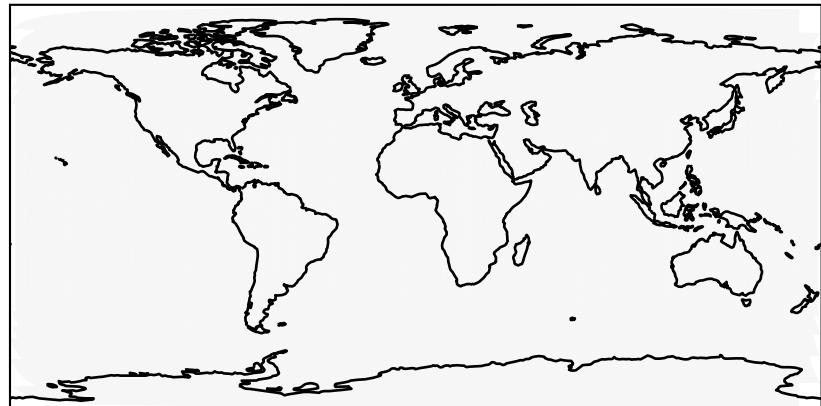
Zero throughout domain
kg/m²/s

GCHP_13.1.0-beta.1 (Dev)
c48



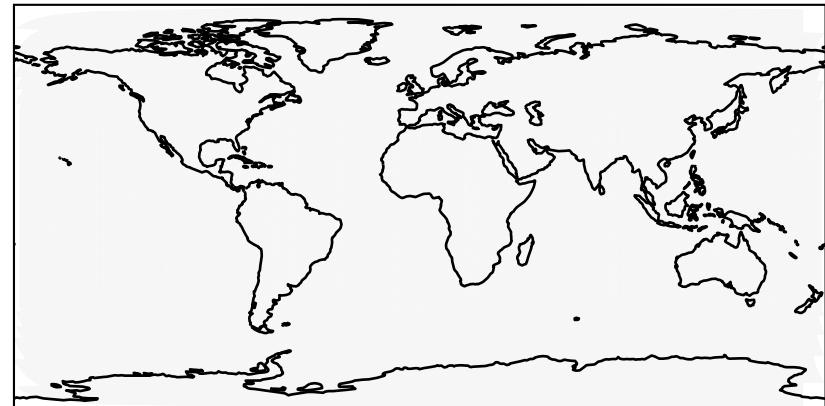
Zero throughout domain
kg/m²/s

Difference
Dev - Ref, Dynamic Range



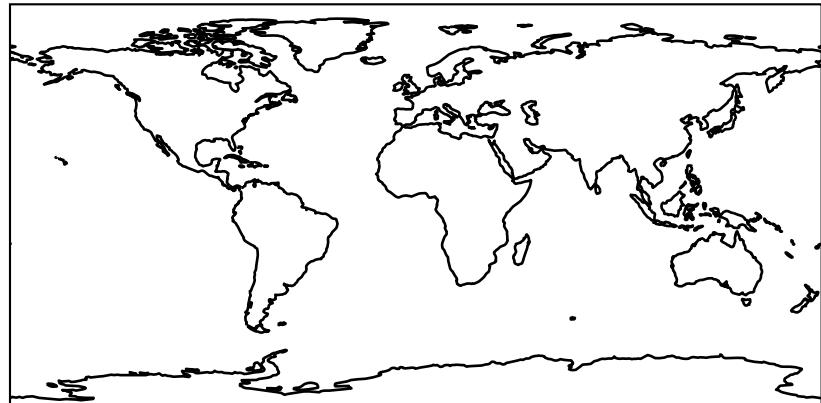
Zero throughout domain
kg/m²/s

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



Zero throughout domain
kg/m²/s

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

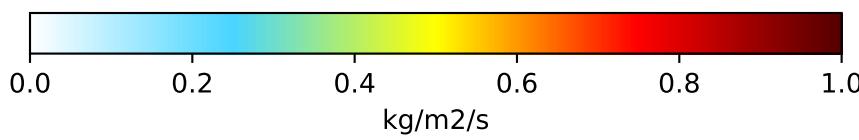
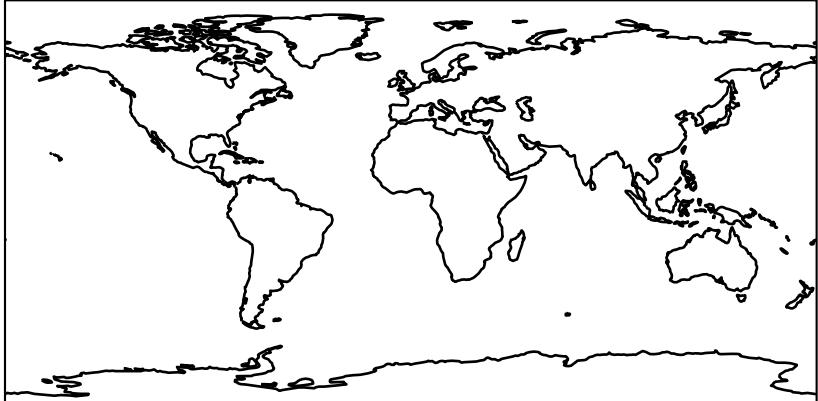
Ratio
Dev/Ref, Fixed Range



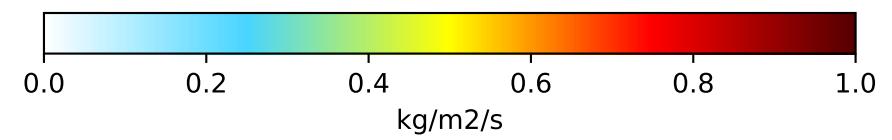
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EmisHCOOH_Total

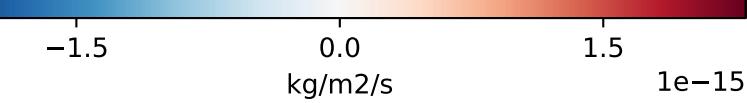
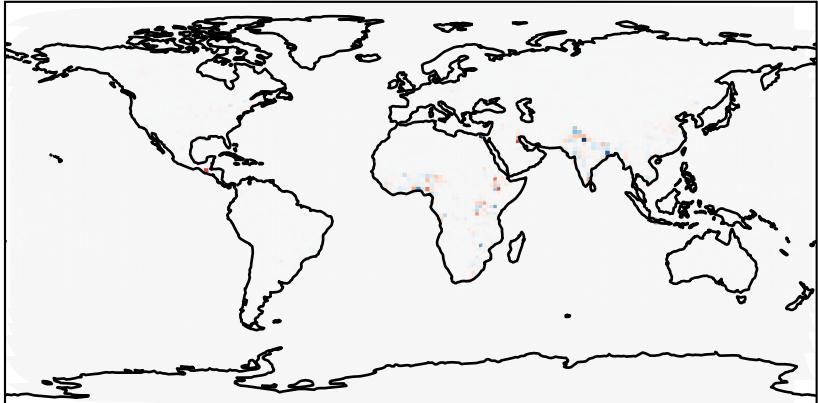
GCHP_13.0.0-rc.2 (Ref)
c48



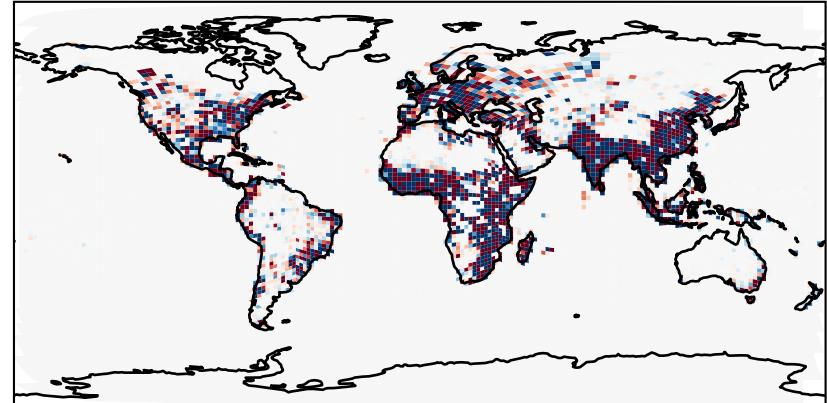
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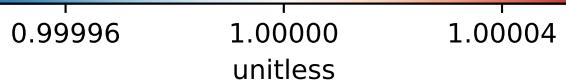
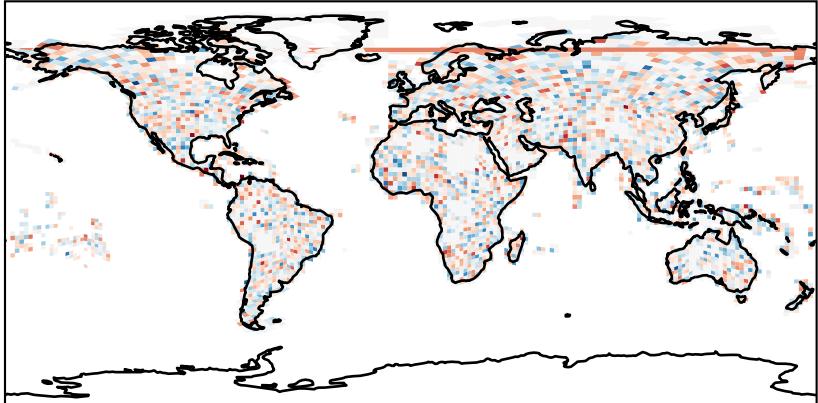
Difference
Dev - Ref, Dynamic Range



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



Ratio
Dev/Ref, Dynamic Range

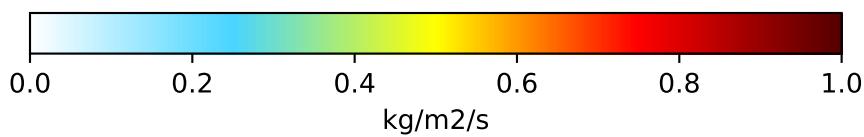
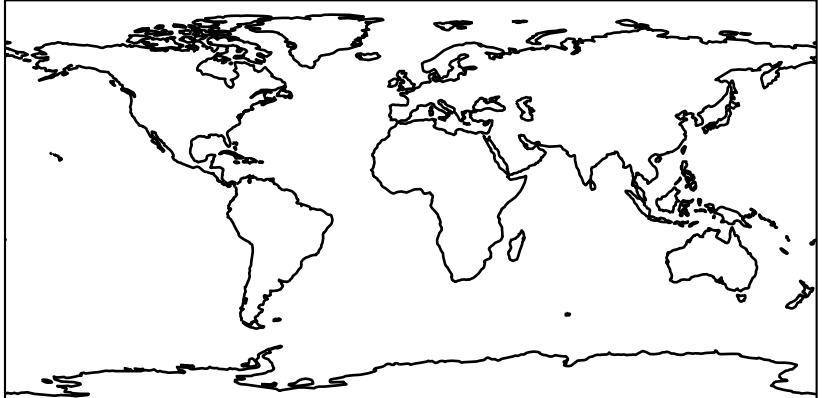


Ratio
Dev/Ref, Fixed Range

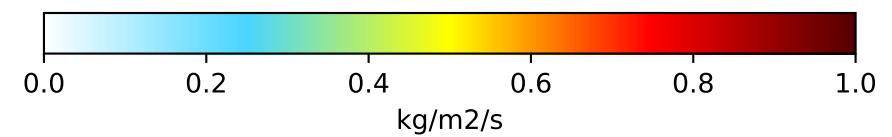
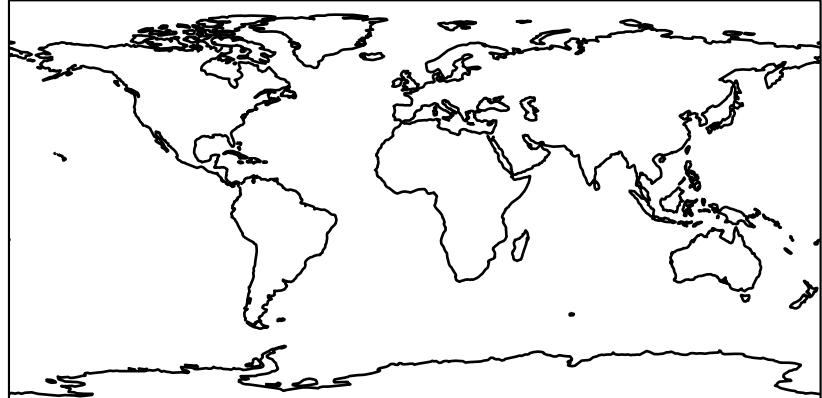


EmisRCHO_Aircraft

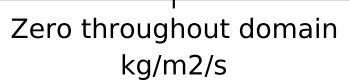
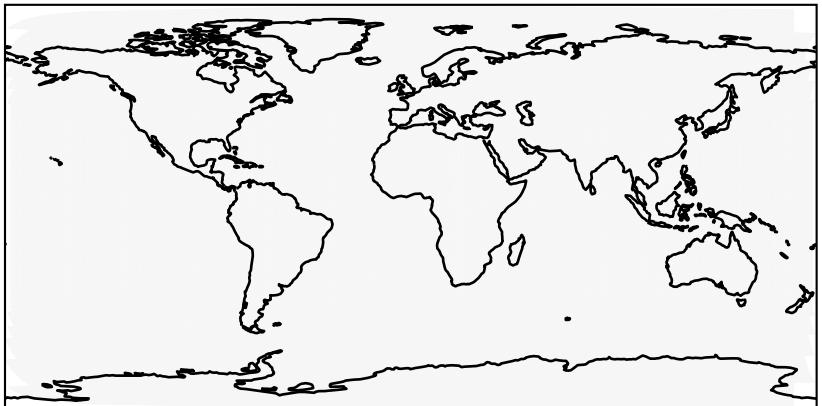
GCHP_13.0.0-rc.2 (Ref)
c48



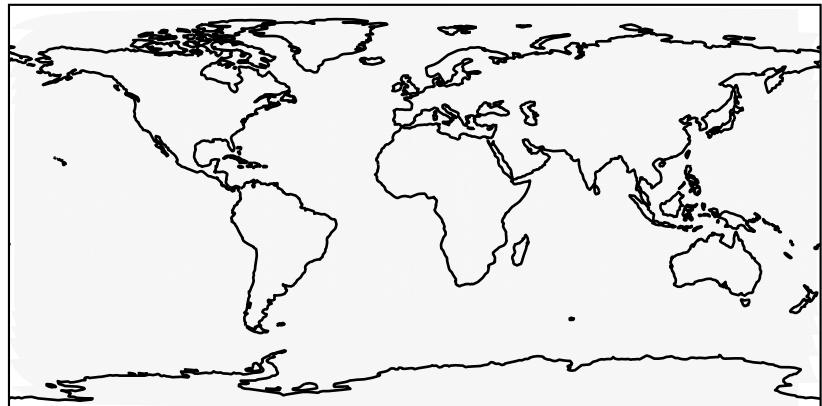
GCHP_13.1.0-beta.1 (Dev)
c48



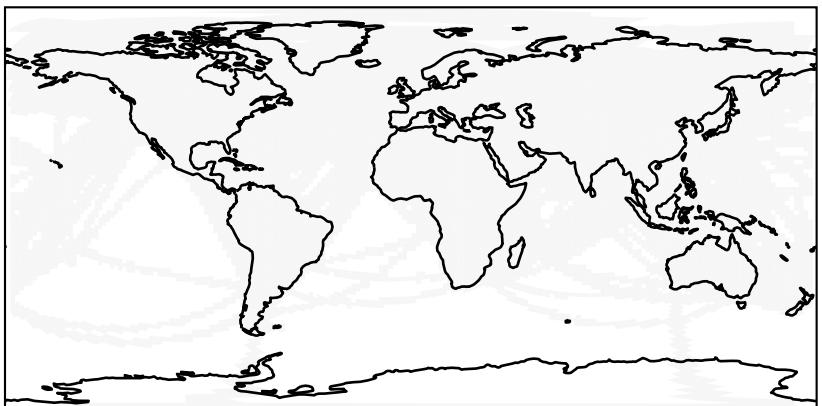
Difference
Dev - Ref, Dynamic Range



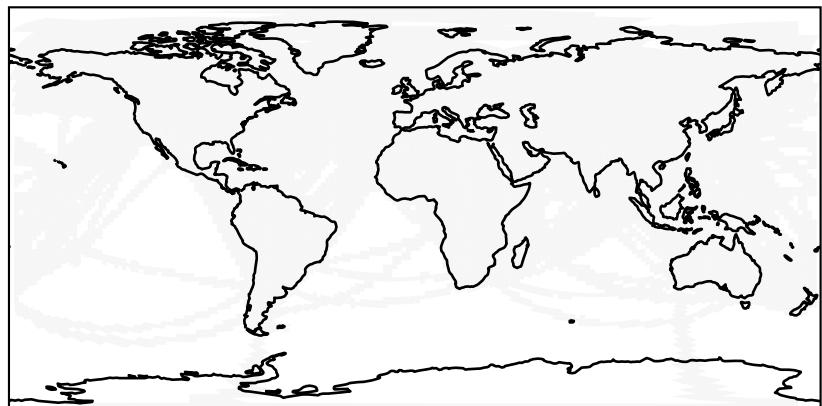
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range



Ratio
Dev/Ref, Fixed Range



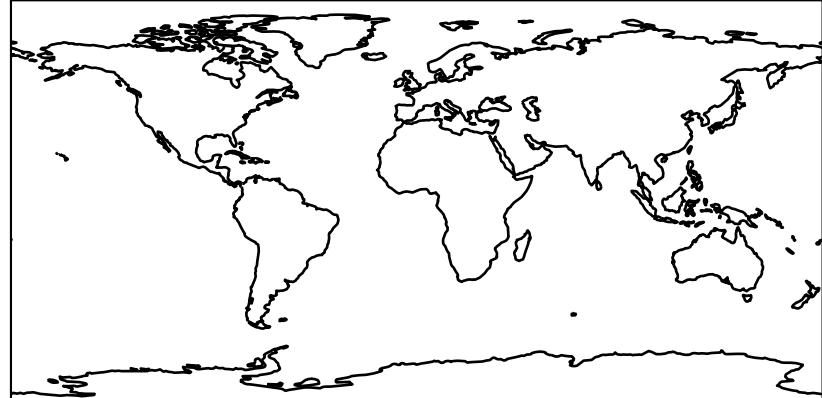
EmisRCHO_Anthro

GCHP_13.0.0-rc.2 (Ref)
c48



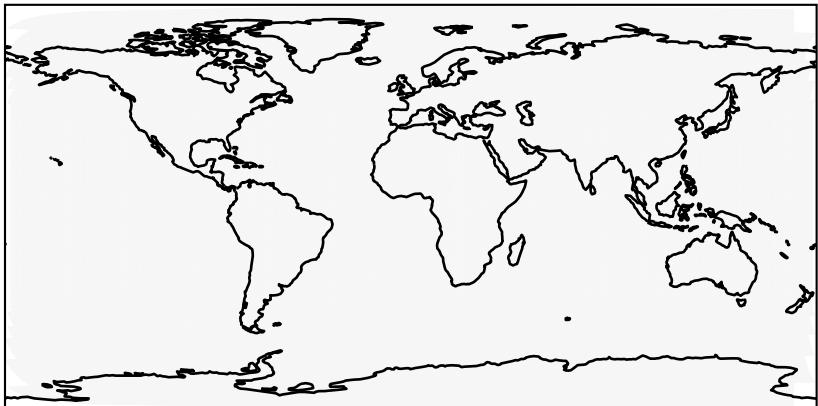
Zero throughout domain
kg/m²/s

GCHP_13.1.0-beta.1 (Dev)
c48



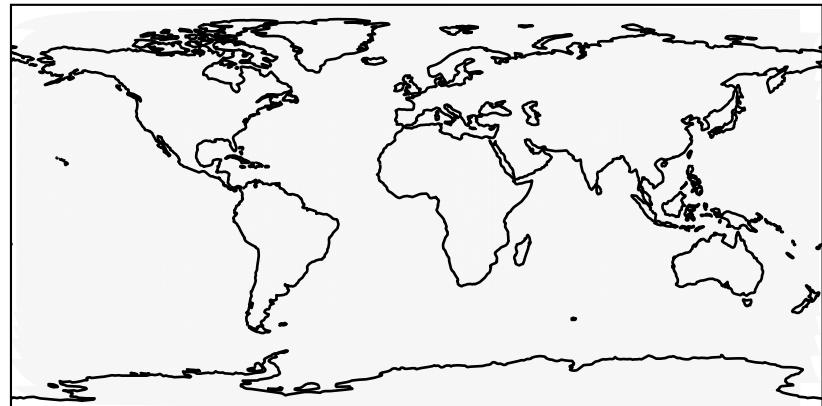
Zero throughout domain
kg/m²/s

Difference
Dev - Ref, Dynamic Range



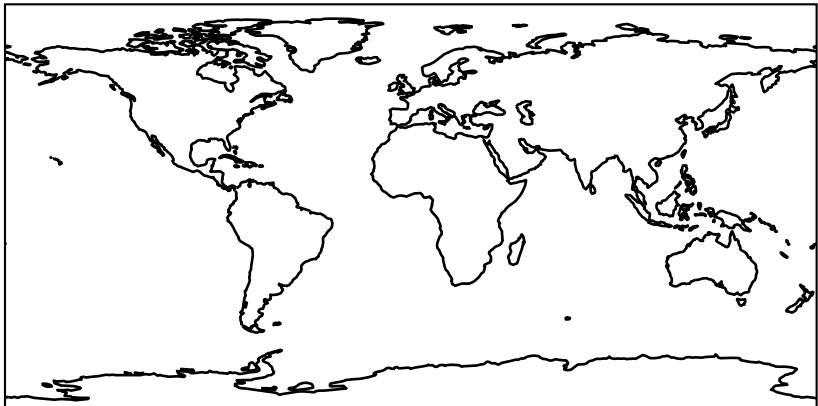
Zero throughout domain
kg/m²/s

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



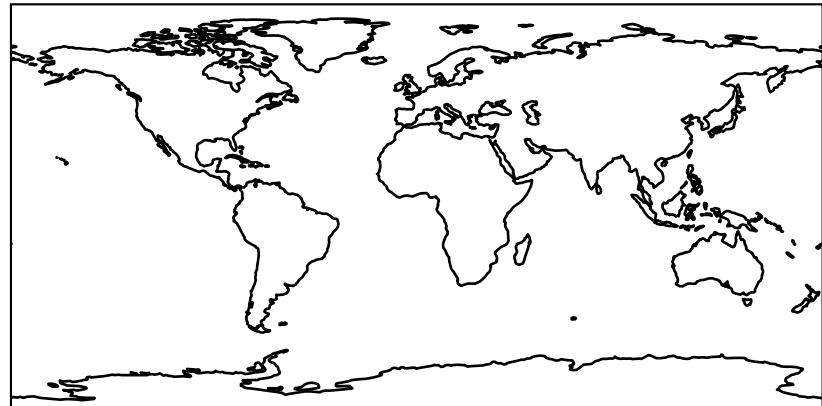
Zero throughout domain
kg/m²/s

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

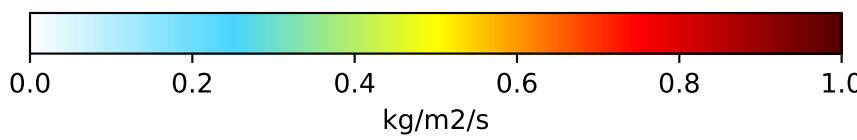
Ratio
Dev/Ref, Fixed Range



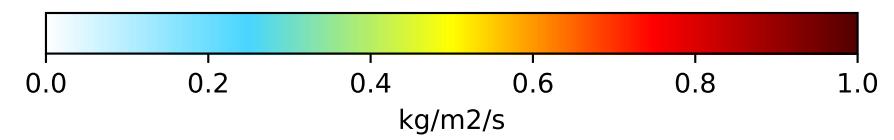
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EmisRCHO_Total

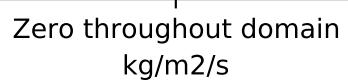
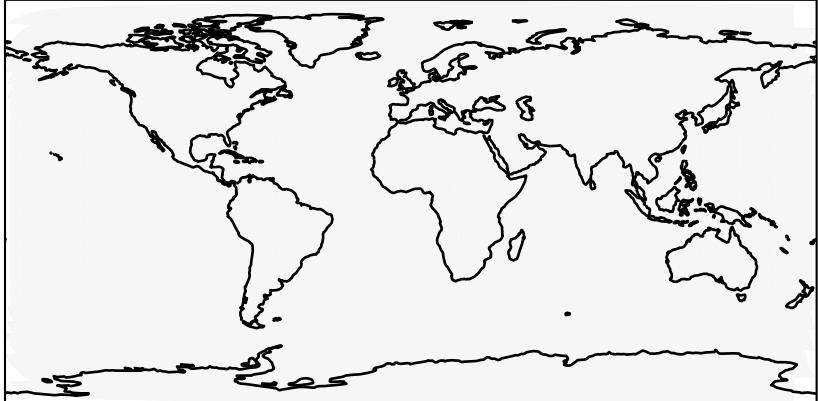
GCHP_13.0.0-rc.2 (Ref)
c48



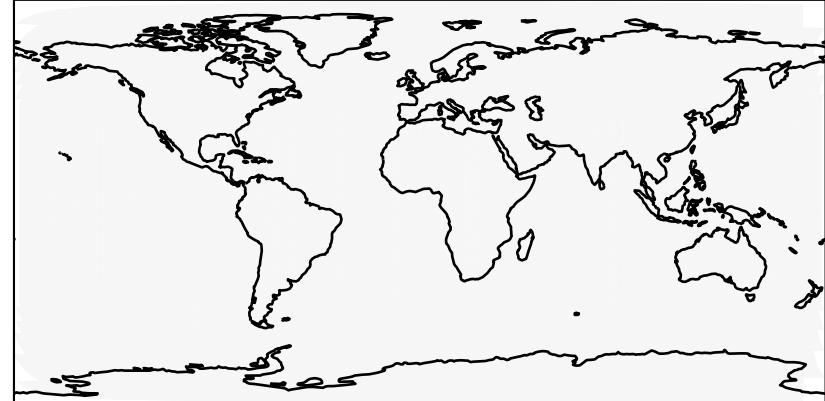
GCHP_13.1.0-beta.1 (Dev)
c48



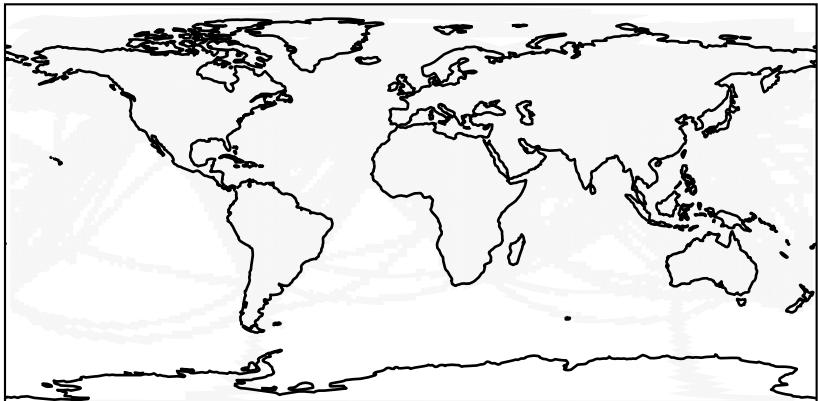
Difference
Dev - Ref, Dynamic Range



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



Ratio
Dev/Ref, Dynamic Range



Ratio
Dev/Ref, Fixed Range

