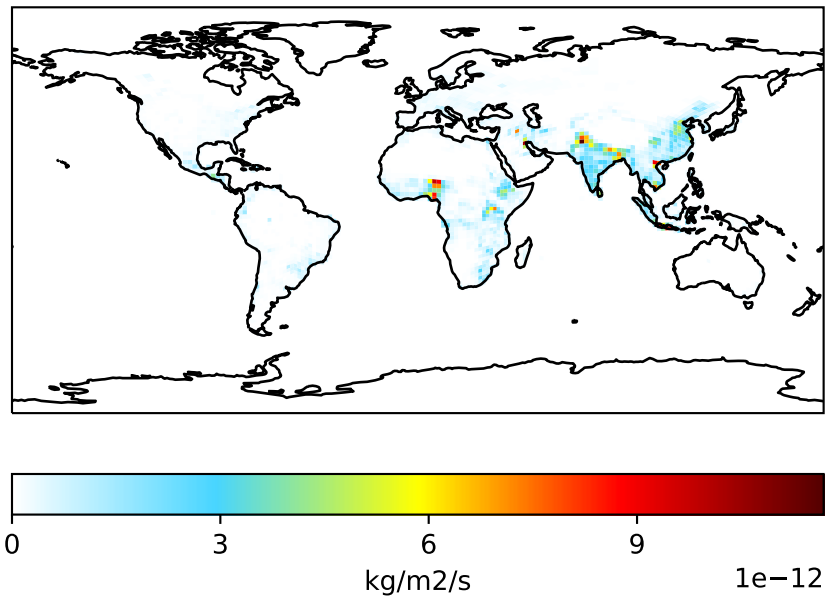
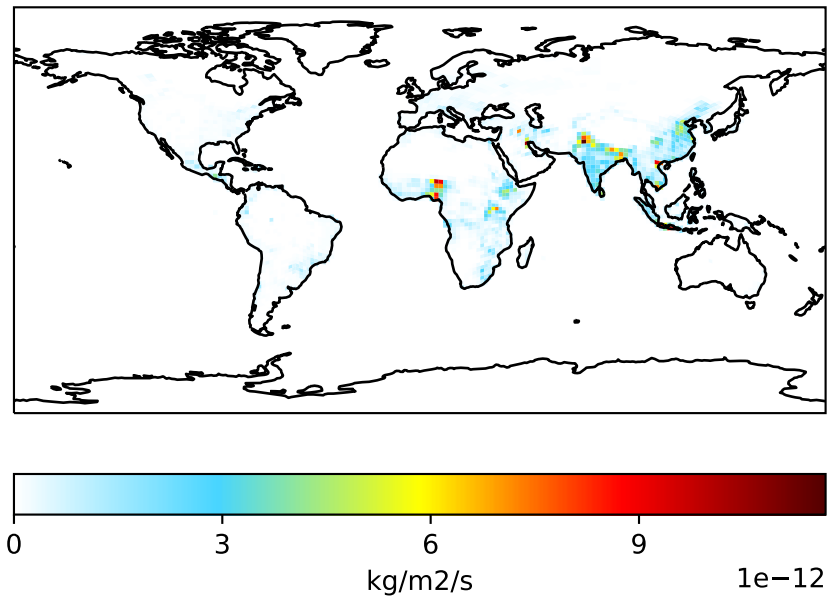
EmisALD2_Anthro

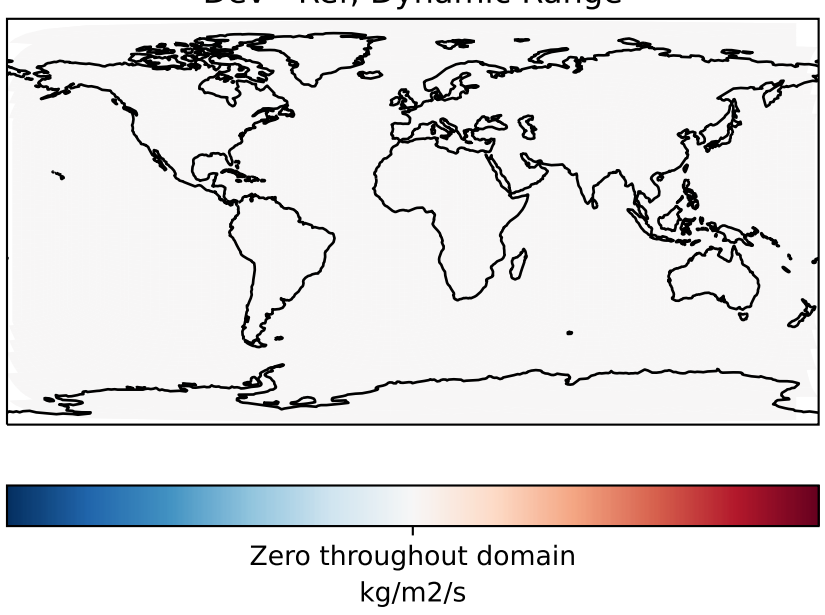
GCHP_13.3.0-rc.1 (Ref)
c48



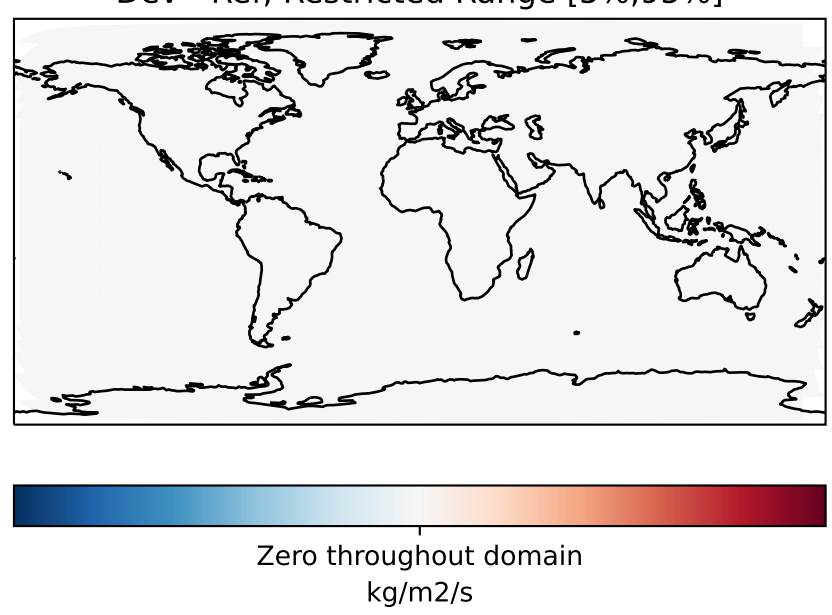
GCHP_13.4.0-rc.2 (Dev)
c48



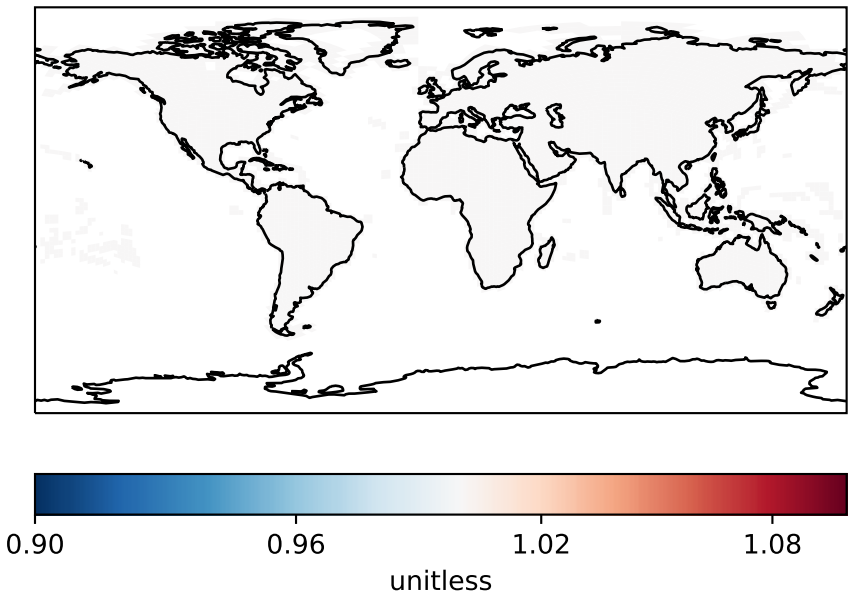
Difference
Dev - Ref, Dynamic Range



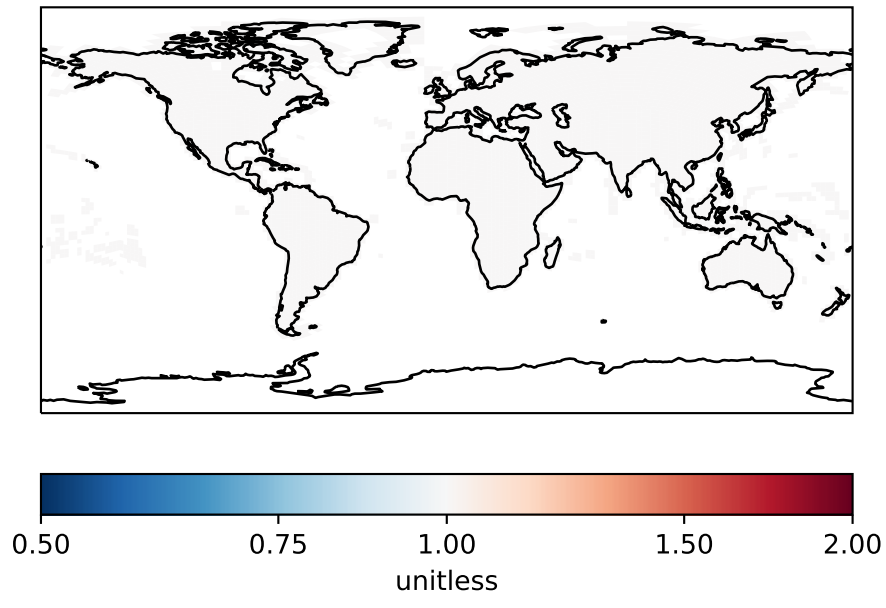
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

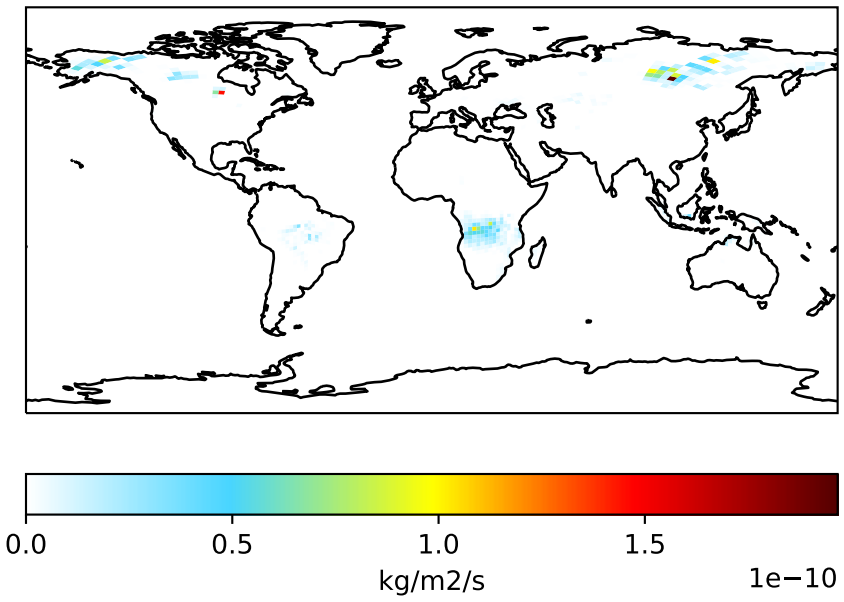


Ratio
Dev/Ref, Fixed Range

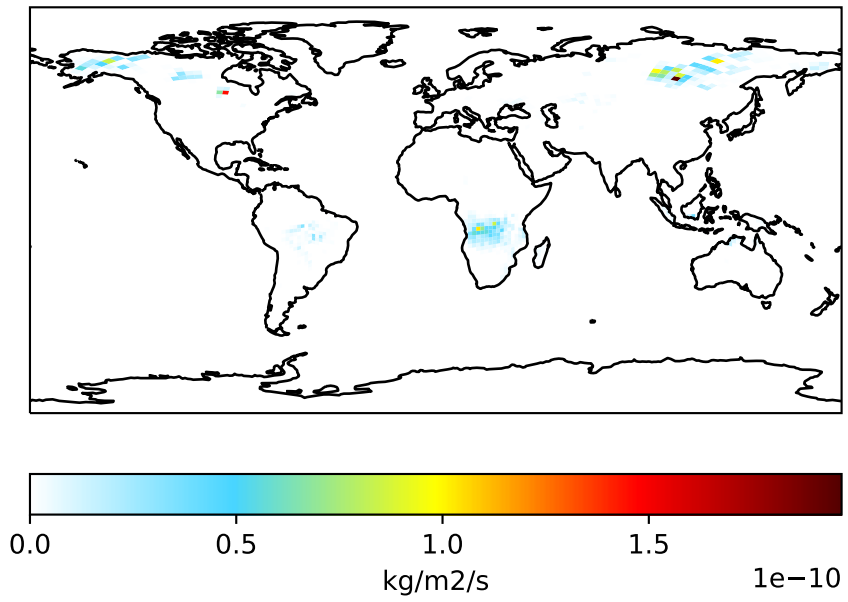


EmisALD2_BioBurn

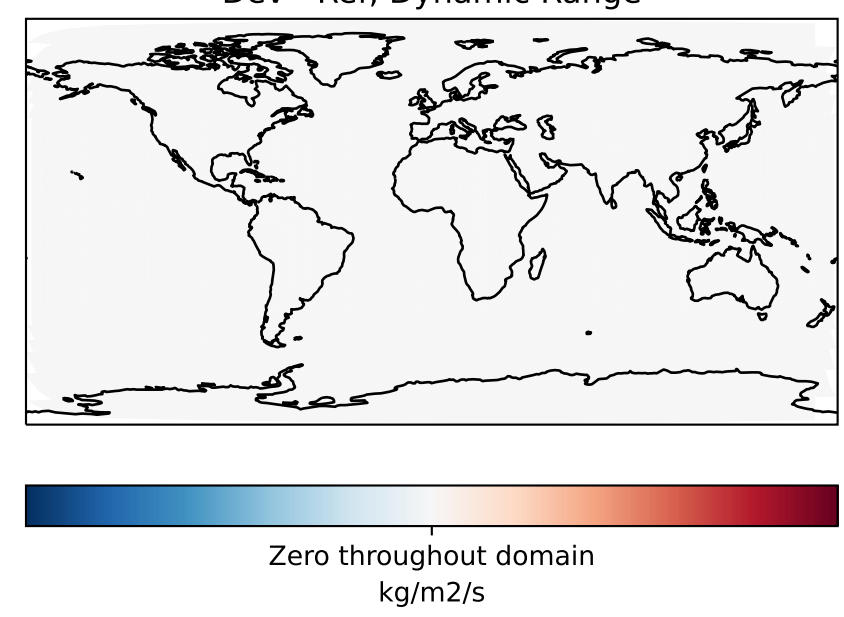
GCHP_13.3.0-rc.1 (Ref)
c48



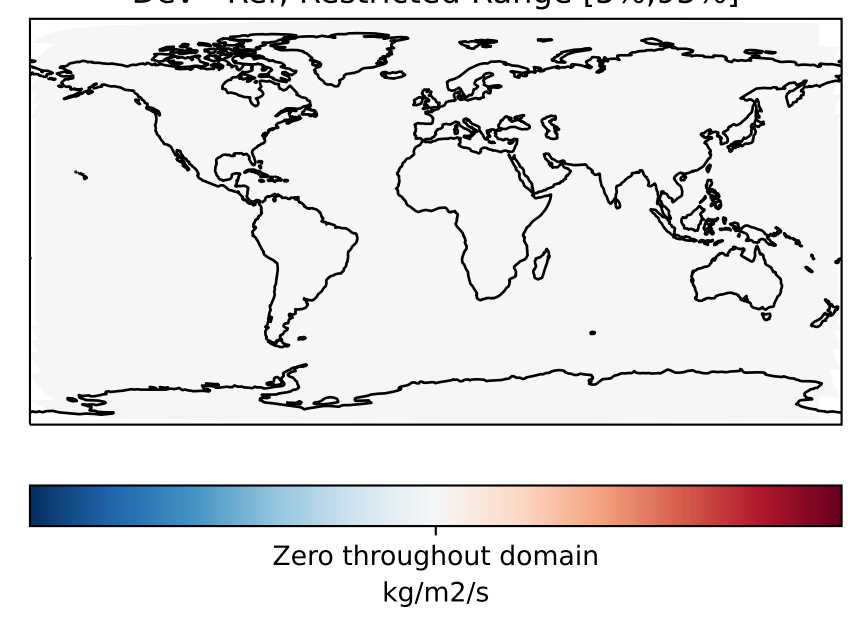
GCHP_13.4.0-rc.2 (Dev)
c48



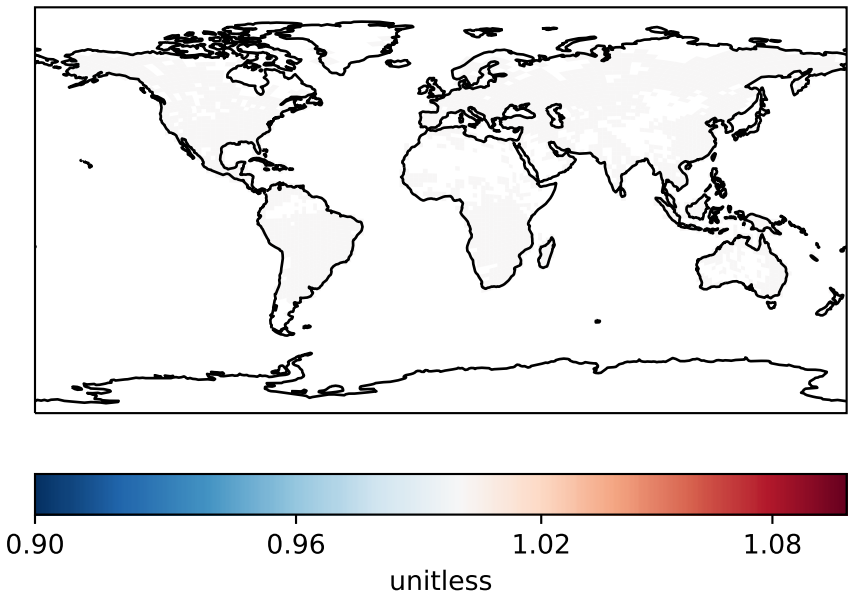
Difference
Dev - Ref, Dynamic Range



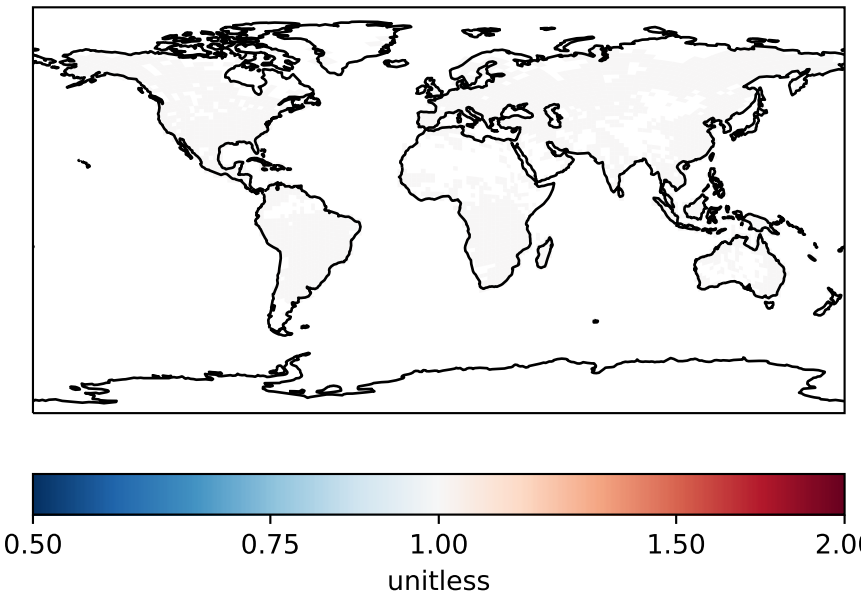
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

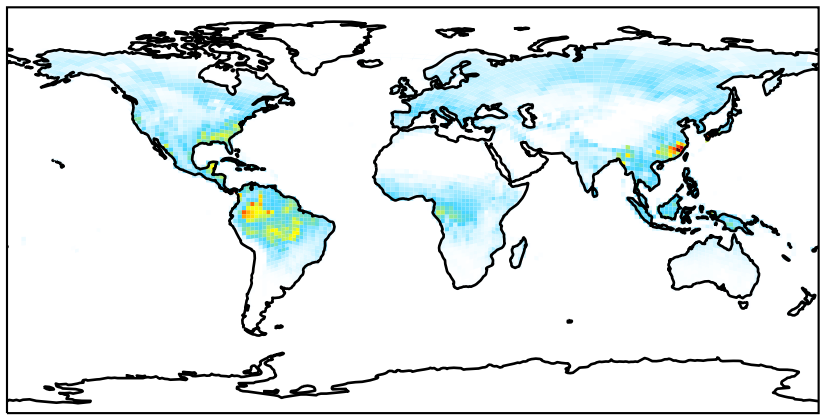


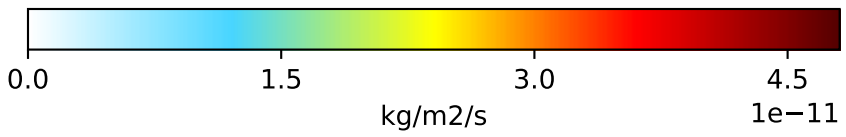
Ratio
Dev/Ref, Fixed Range



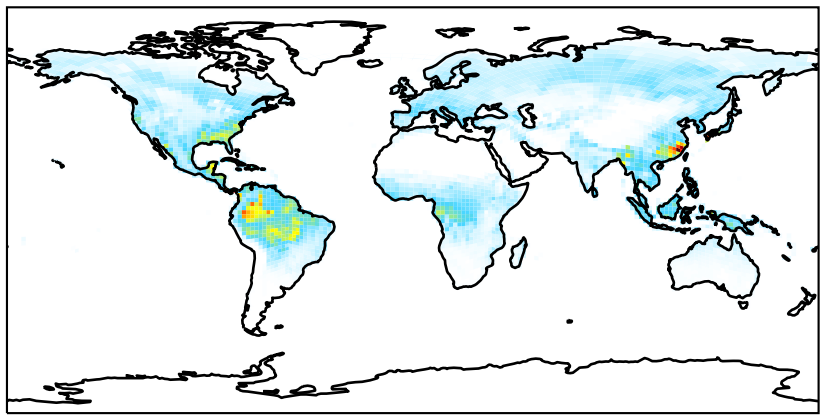
EmisALD2_Biogenic

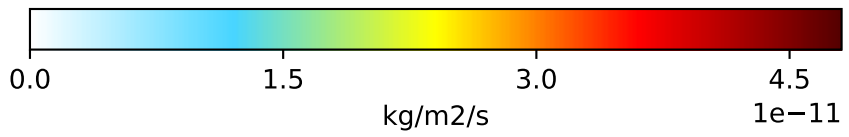
GCHP_13.3.0-rc.1 (Ref)
c48



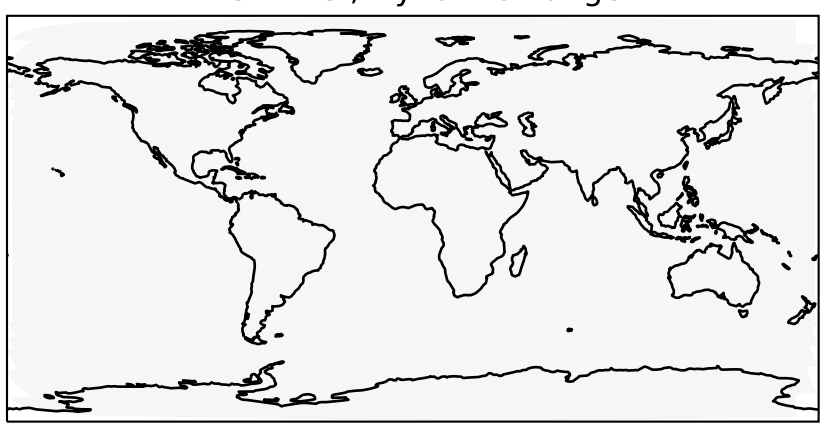


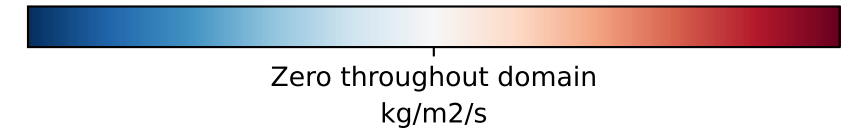
GCHP_13.4.0-rc.2 (Dev)
c48



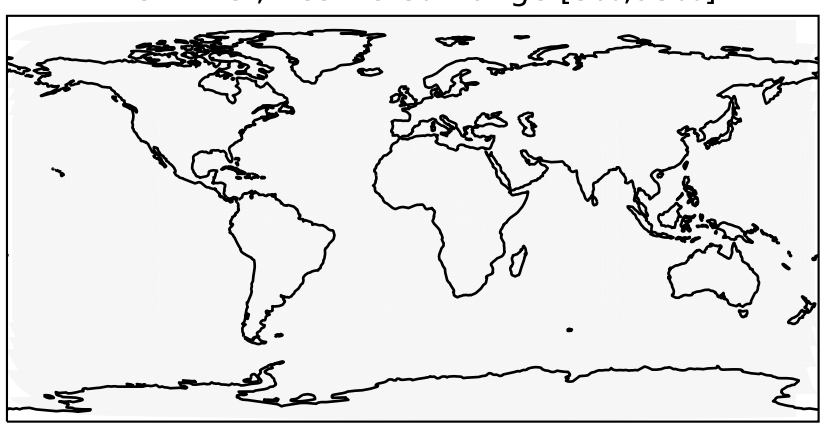


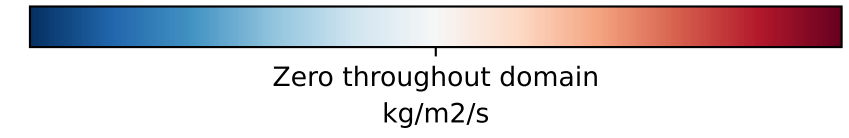
Difference
Dev - Ref, Dynamic Range



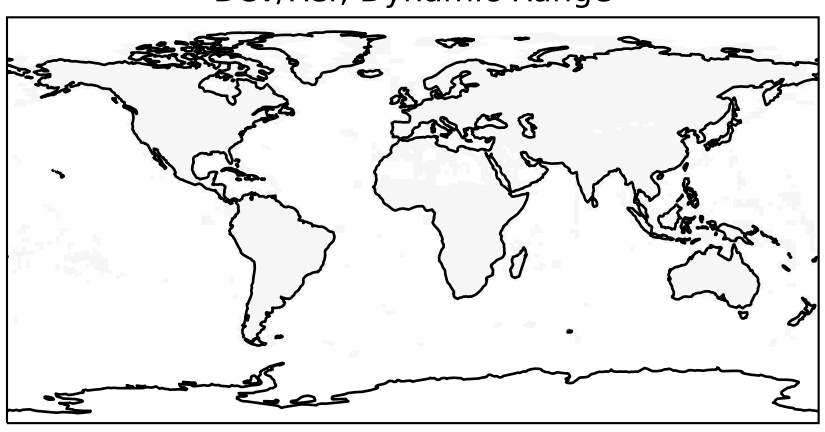


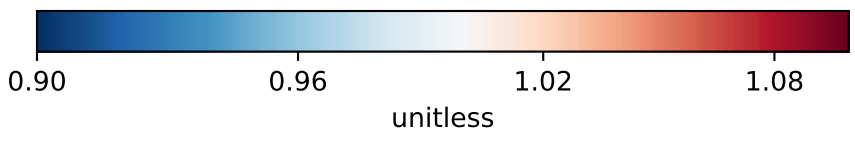
Difference
Dev - Ref, Restricted Range [5%,95%]



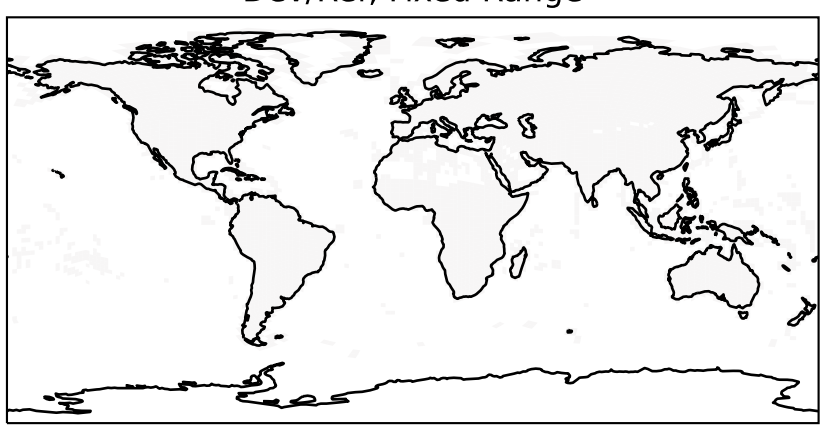


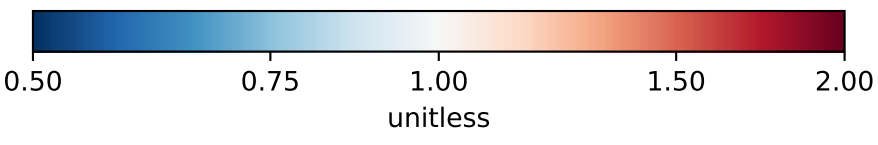
Ratio
Dev/Ref, Dynamic Range





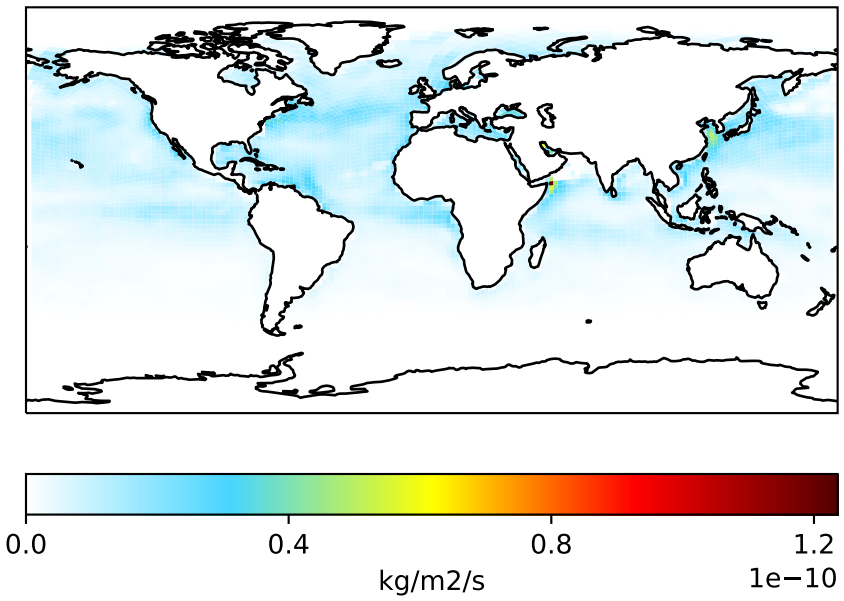
Ratio
Dev/Ref, Fixed Range



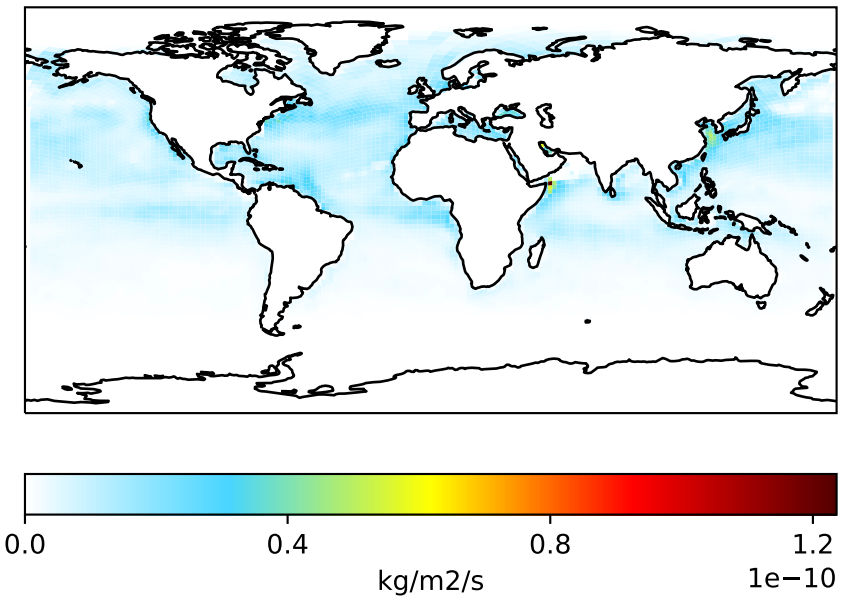


EmisALD2_Ocean

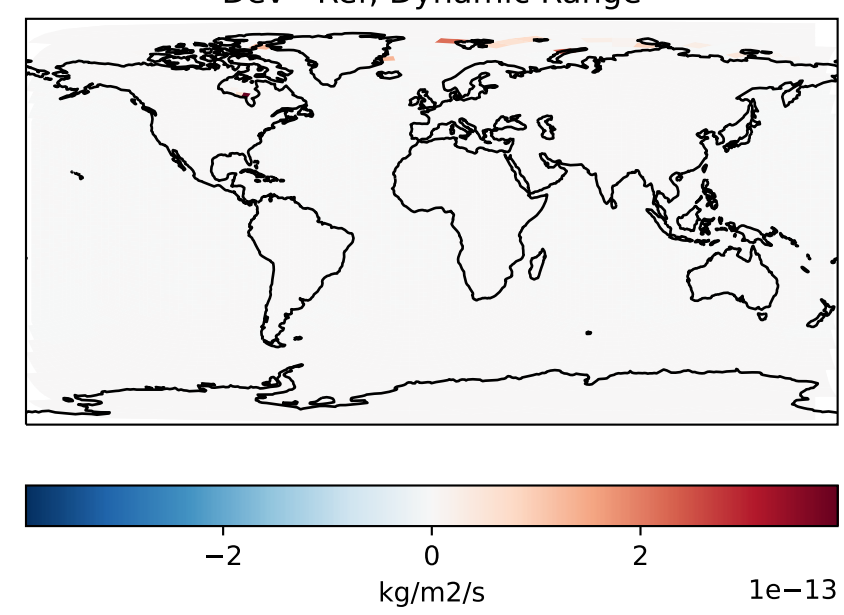
GCHP_13.3.0-rc.1 (Ref)
c48



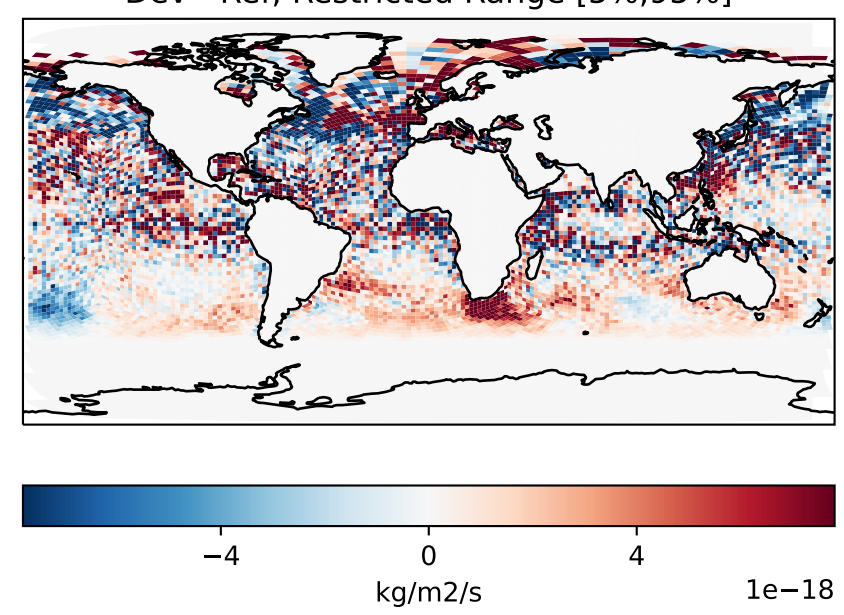
GCHP_13.4.0-rc.2 (Dev)
c48



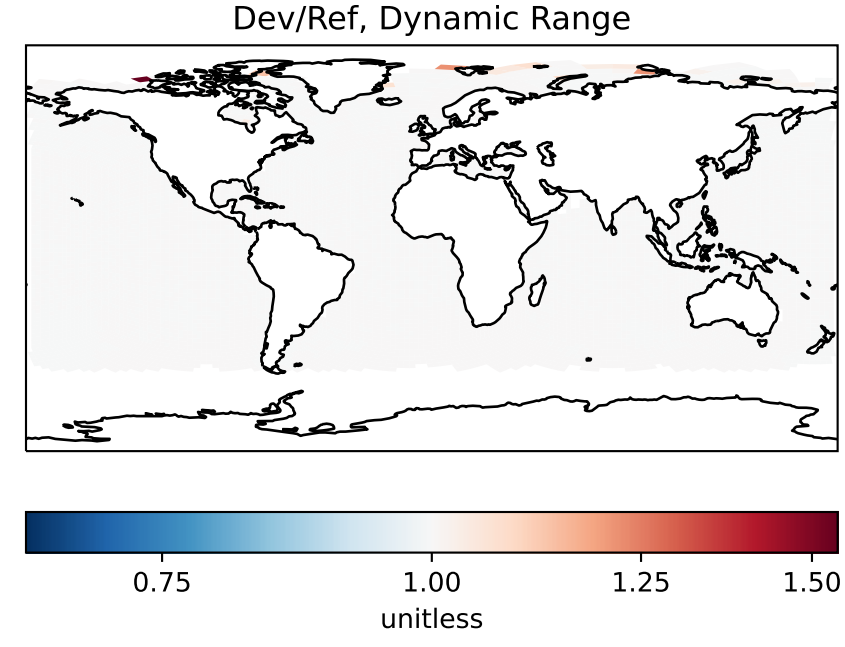
Difference
Dev - Ref, Dynamic Range



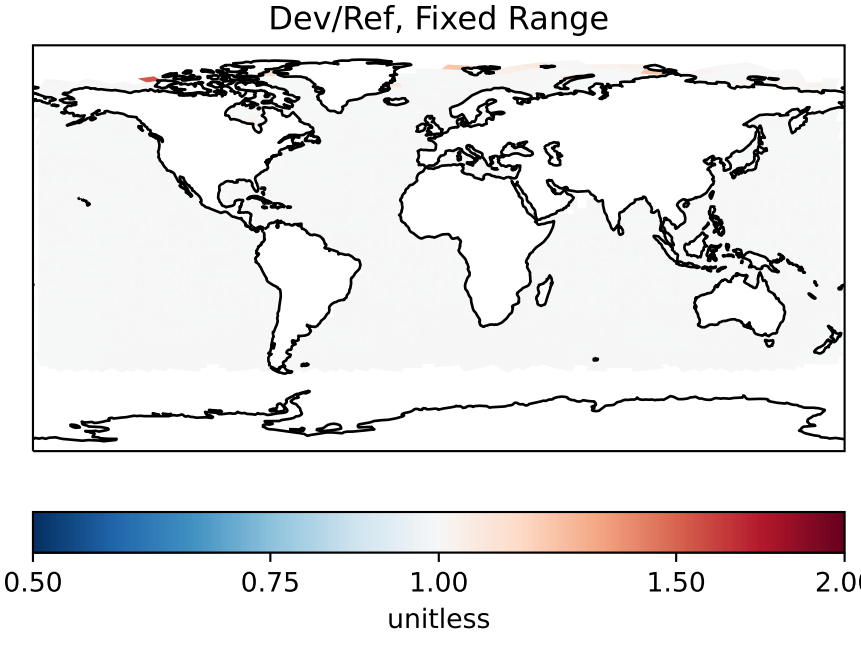
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

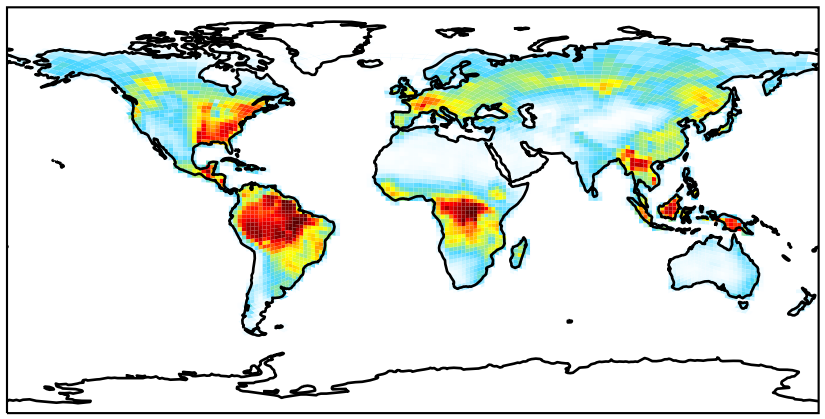


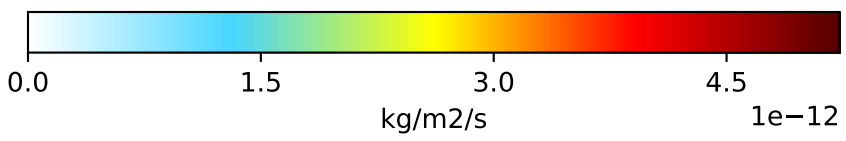
Ratio
Dev/Ref, Fixed Range



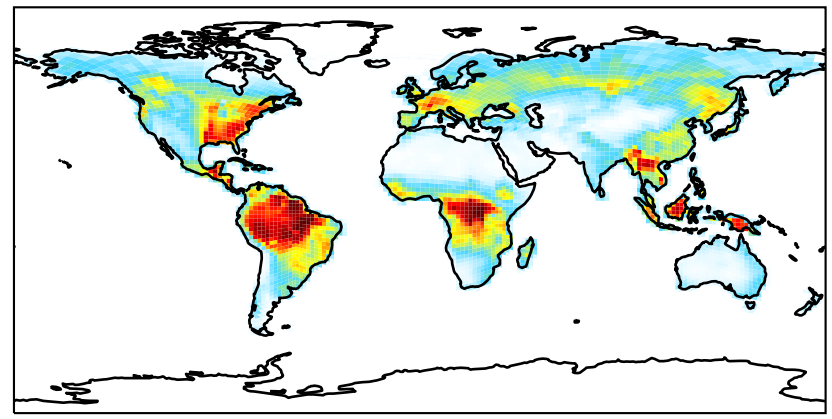
EmisALD2_PlantDecay

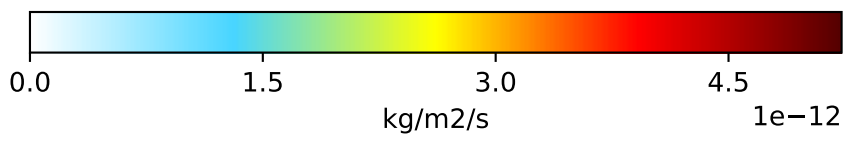
GCHP_13.3.0-rc.1 (Ref)
c48



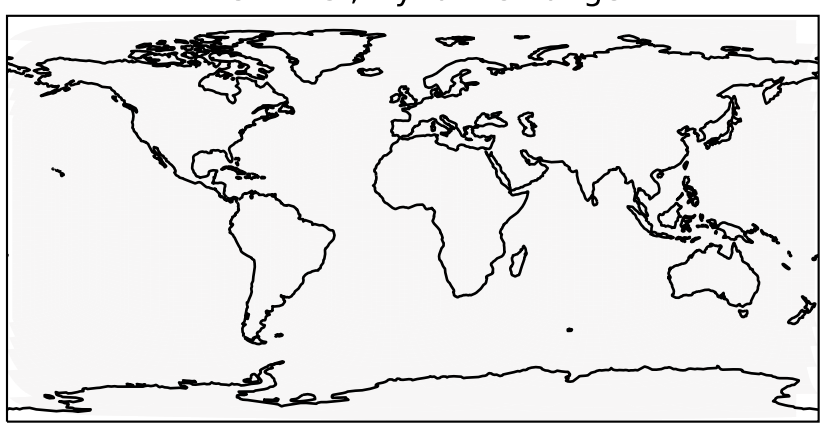


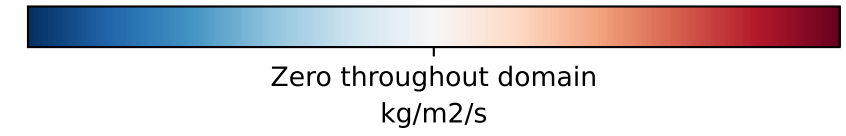
GCHP_13.4.0-rc.2 (Dev)
c48



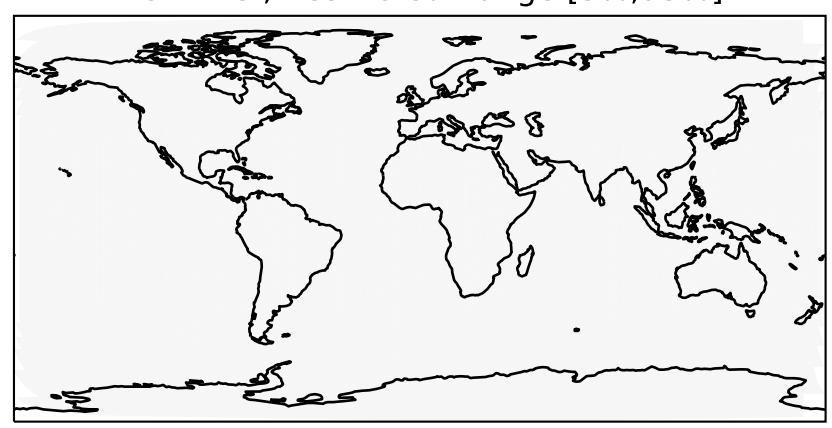


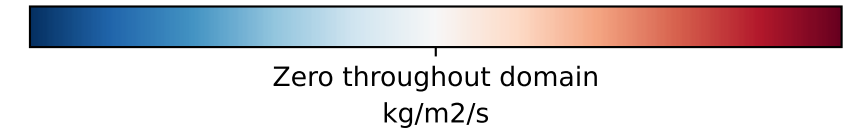
Difference
Dev - Ref, Dynamic Range



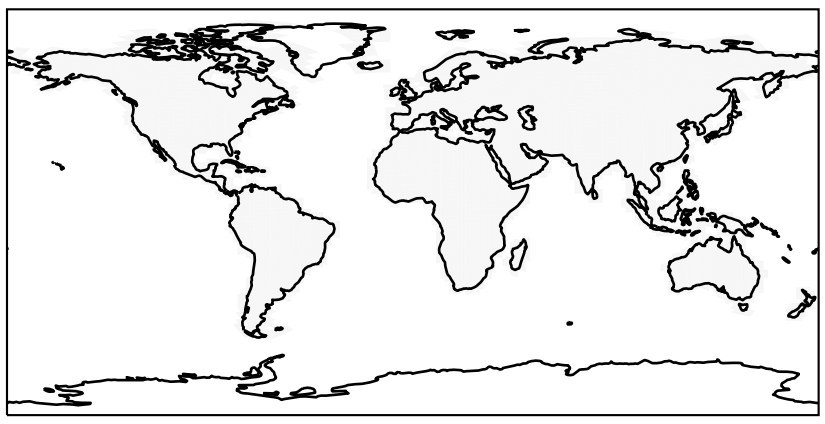


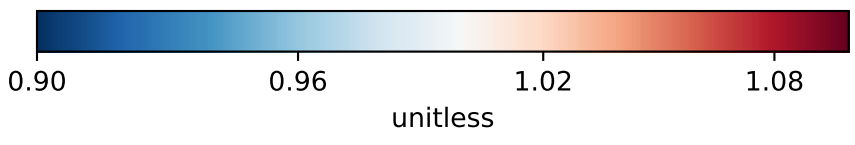
Difference
Dev - Ref, Restricted Range [5%,95%]



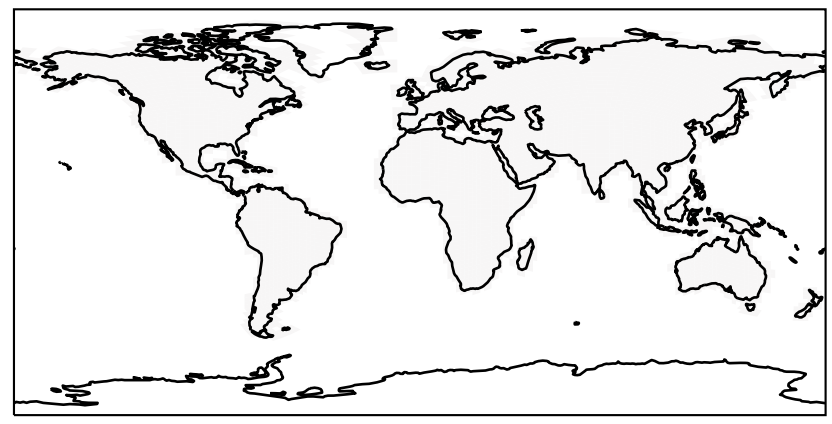


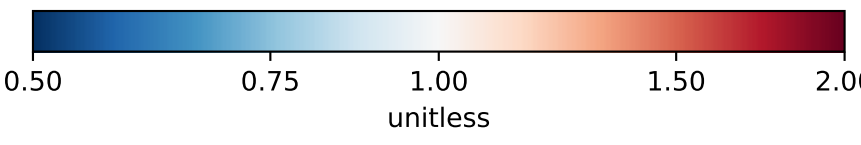
Ratio
Dev/Ref, Dynamic Range





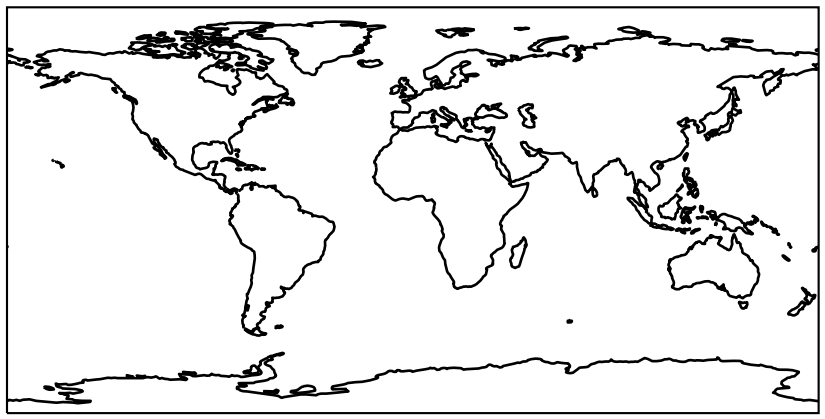
Ratio
Dev/Ref, Fixed Range





EmisALD2_Ship

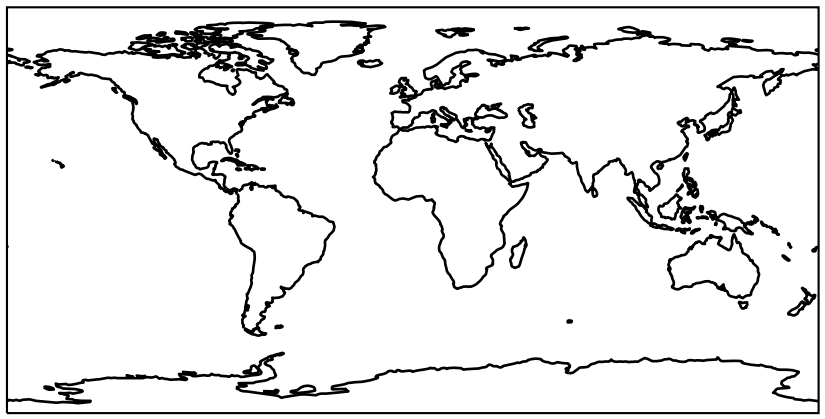
GCHP_13.3.0-rc.1 (Ref)
c48





Zero throughout domain
kg/m2/s

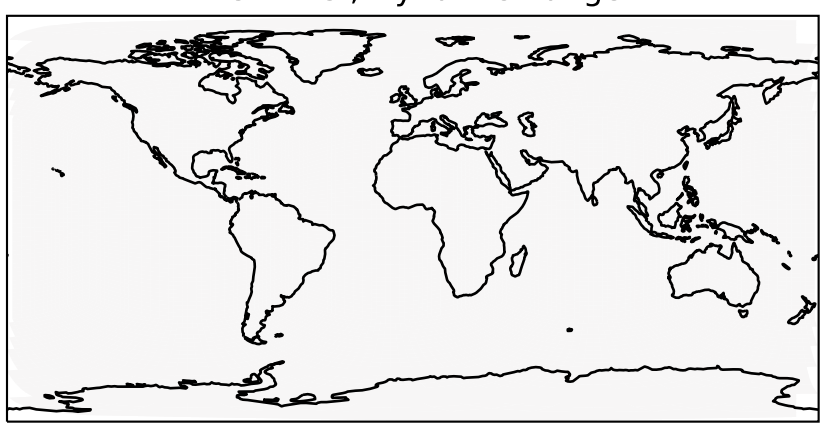
GCHP_13.4.0-rc.2 (Dev)
c48





Zero throughout domain
kg/m2/s

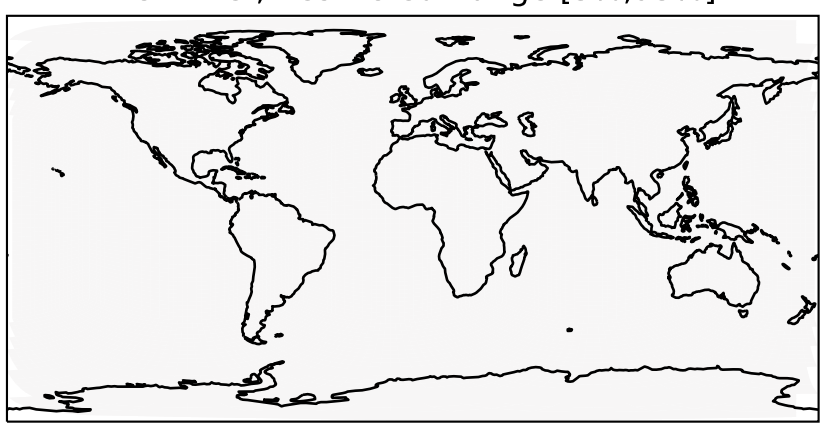
Difference
Dev - Ref, Dynamic Range





Zero throughout domain
kg/m2/s

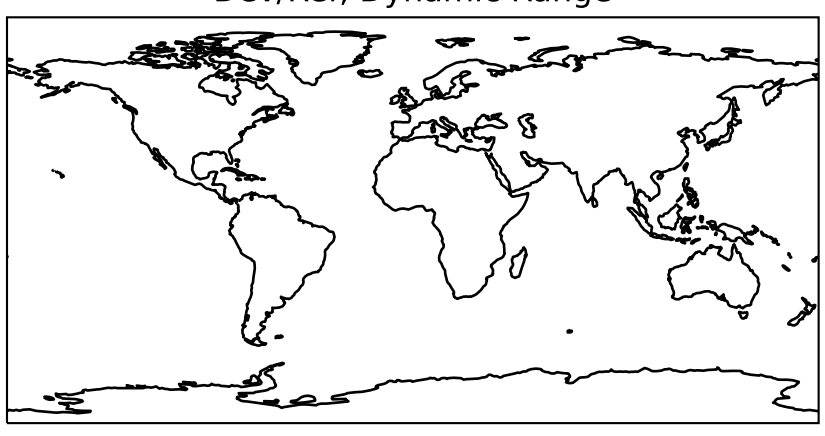
Difference
Dev - Ref, Restricted Range [5%,95%]





Zero throughout domain
kg/m2/s

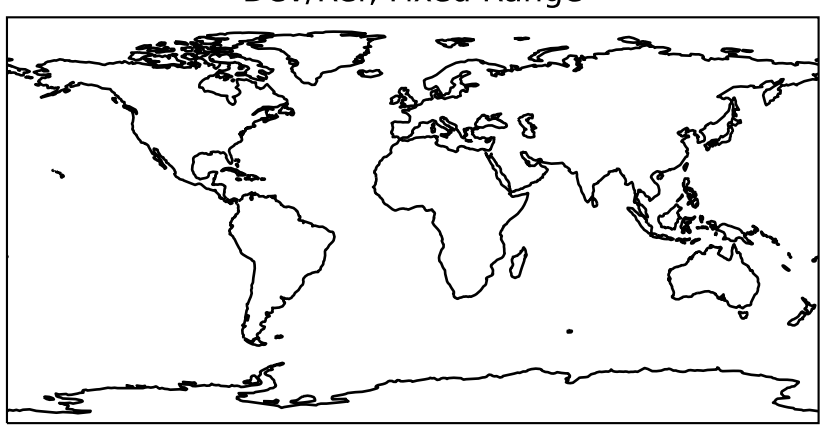
Ratio
Dev/Ref, Dynamic Range





Undefined throughout domain
unitless

Ratio
Dev/Ref, Fixed Range

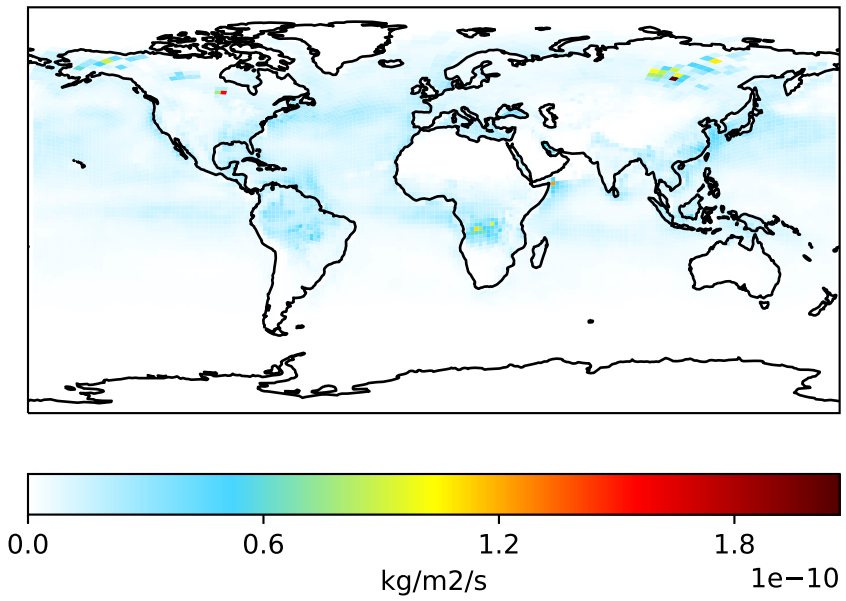




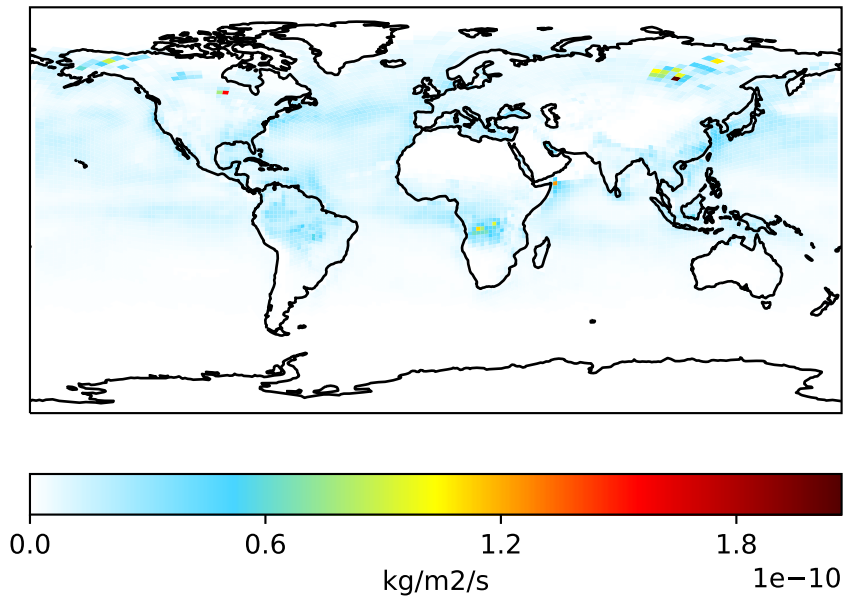
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unitless

EmisALD2_Total

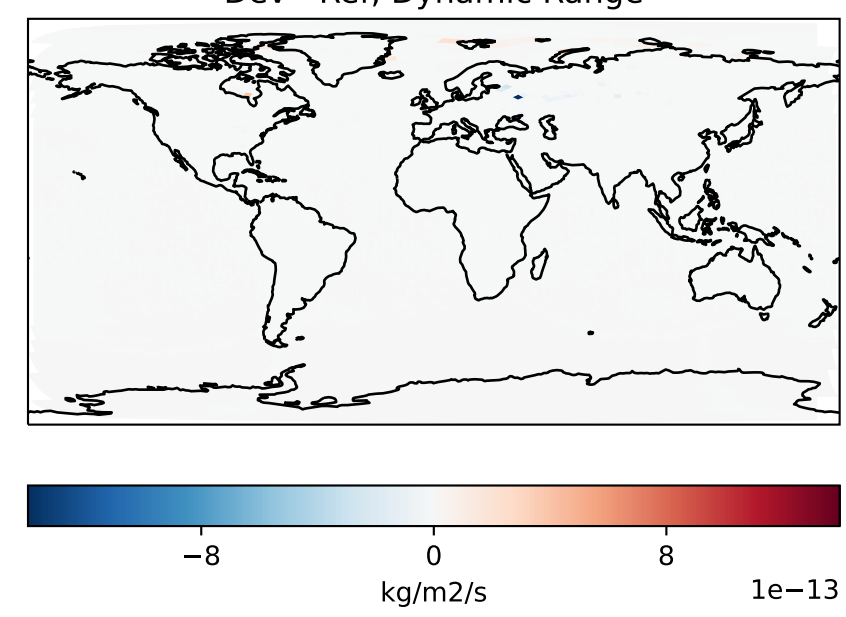
GCHP_13.3.0-rc.1 (Ref)
c48



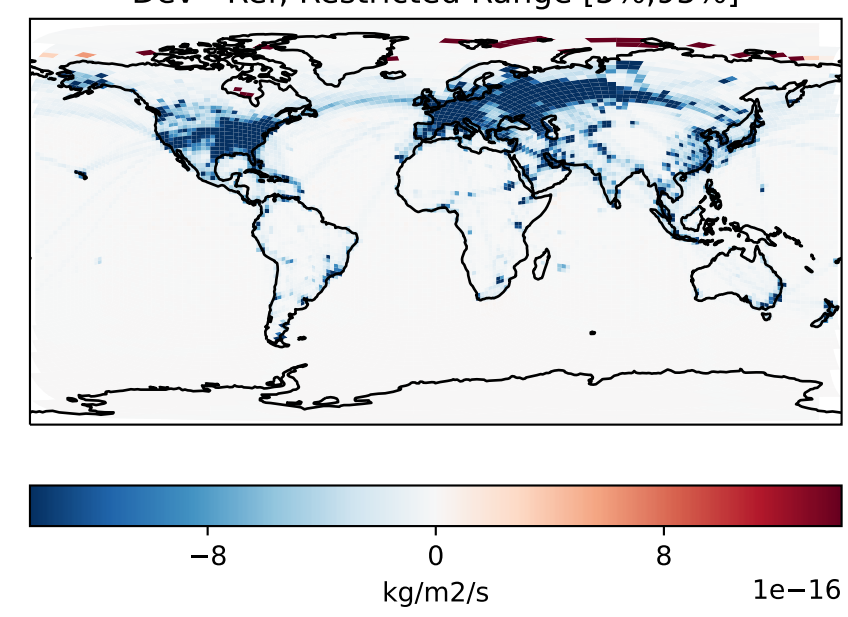
GCHP_13.4.0-rc.2 (Dev)
c48



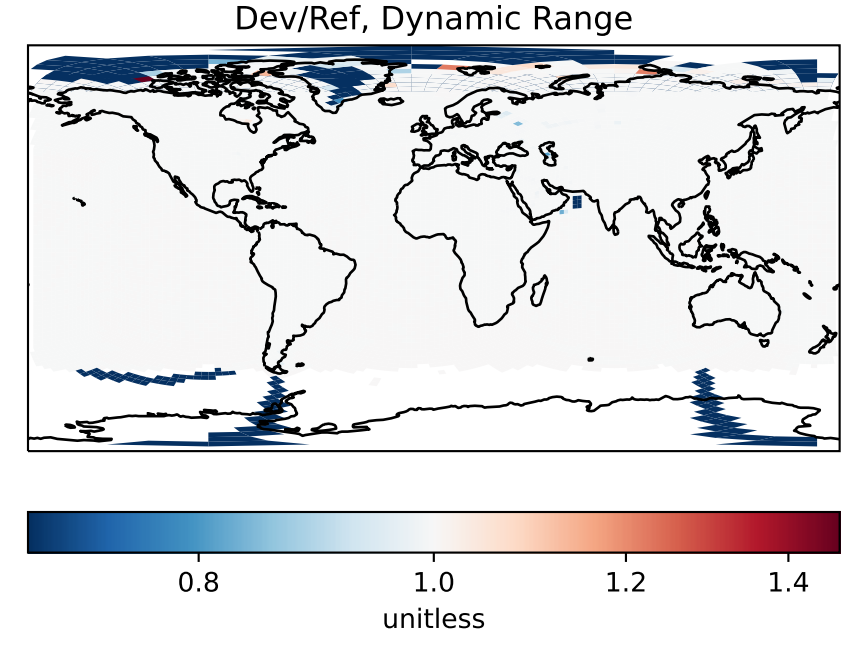
Difference
Dev - Ref, Dynamic Range



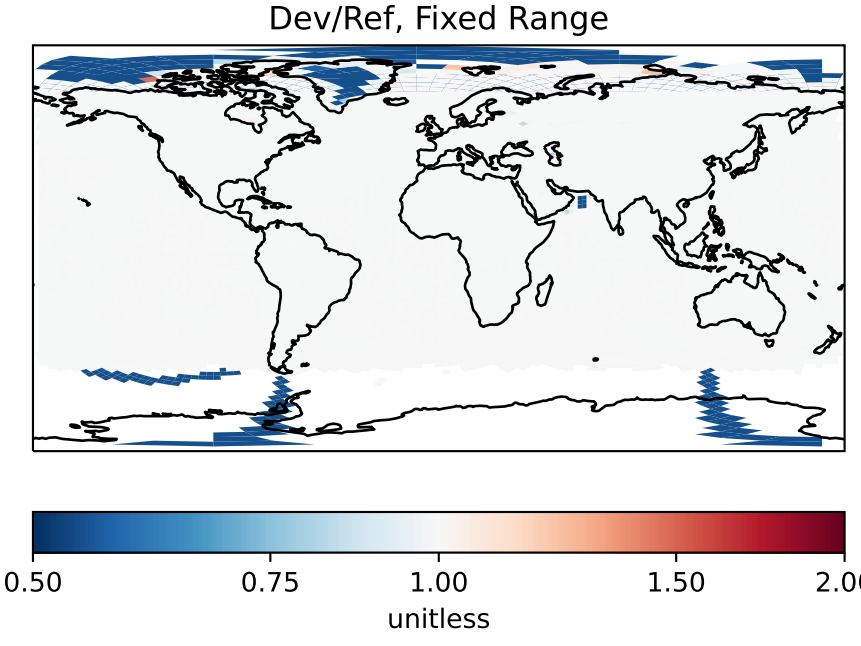
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

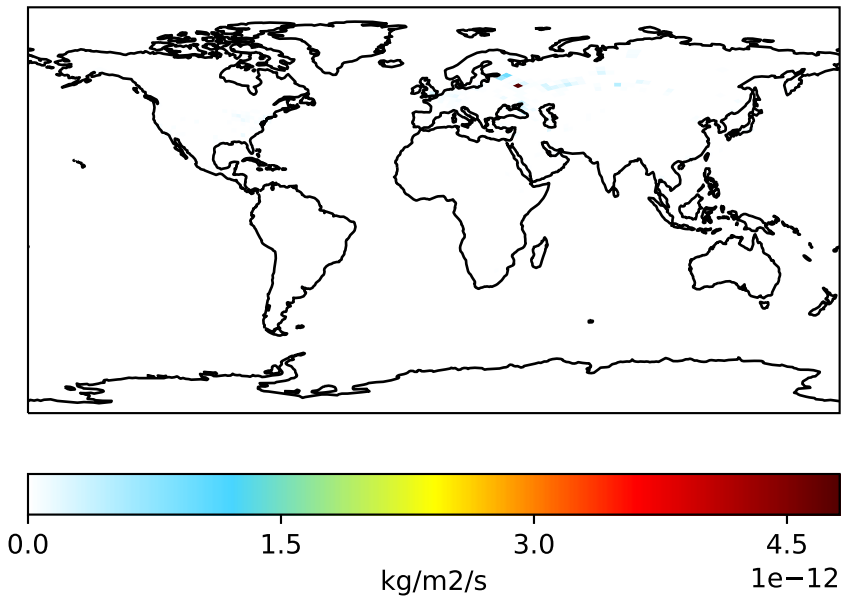


Ratio
Dev/Ref, Fixed Range

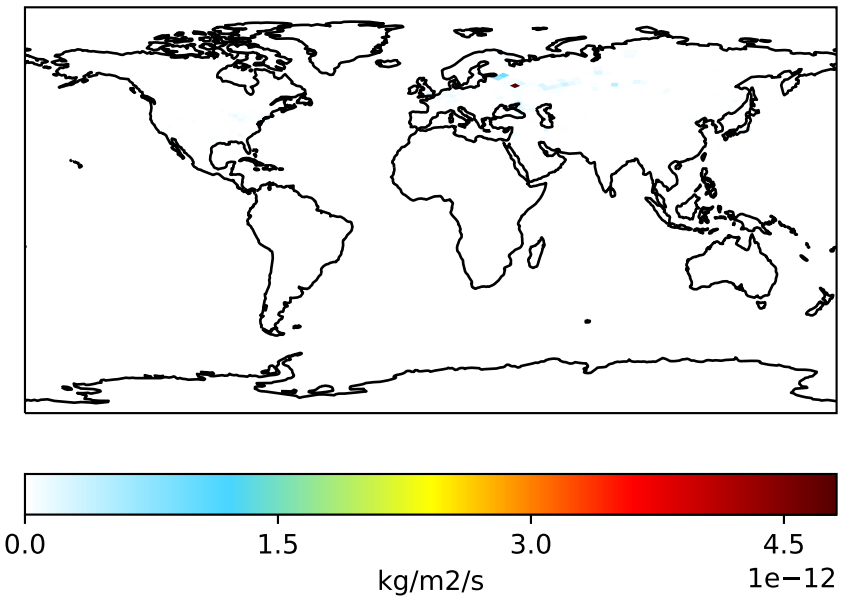


EmisCH2O_Aircraft

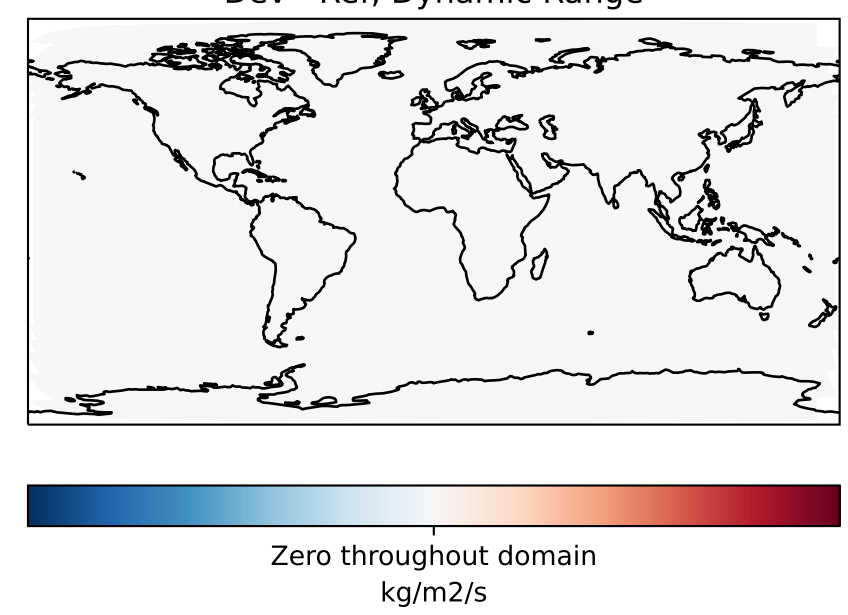
GCHP_13.3.0-rc.1 (Ref)
c48



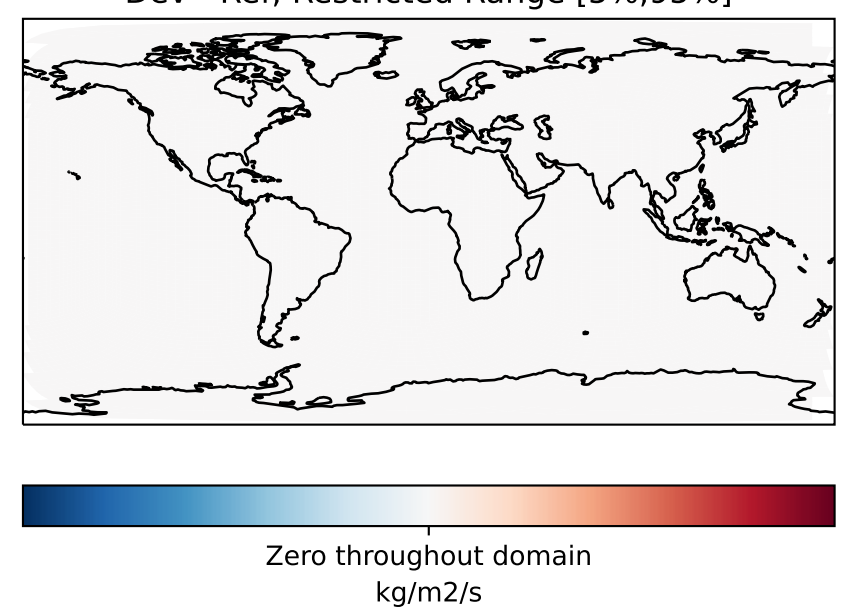
GCHP_13.4.0-rc.2 (Dev)
c48



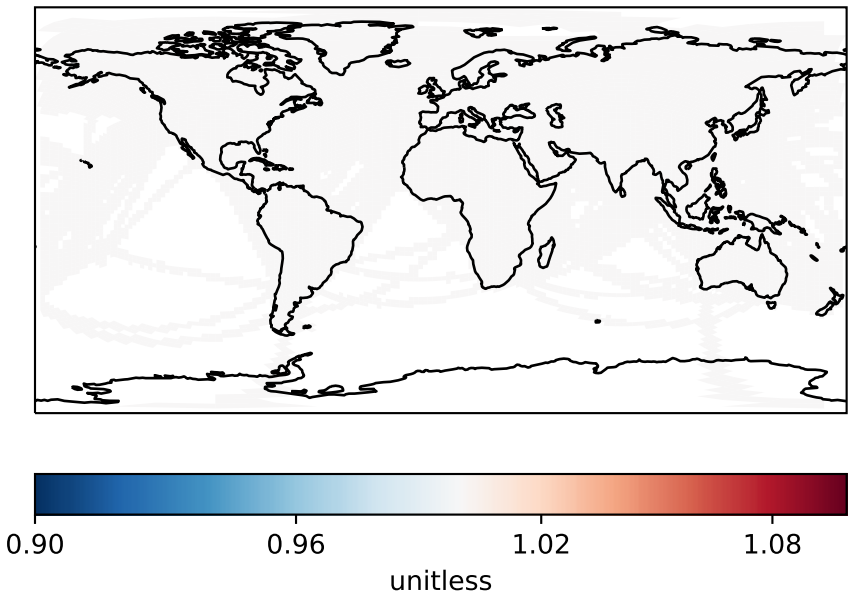
Difference
Dev - Ref, Dynamic Range



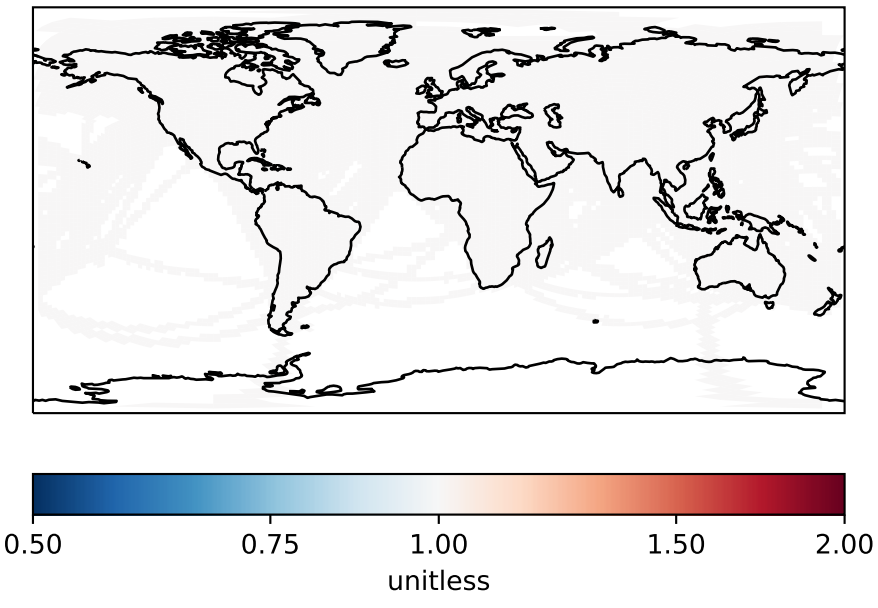
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

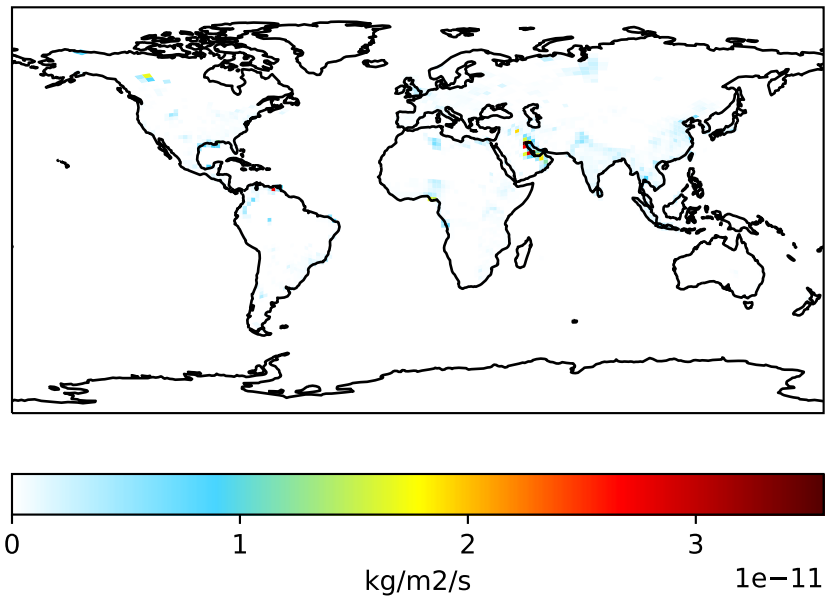


Ratio
Dev/Ref, Fixed Range

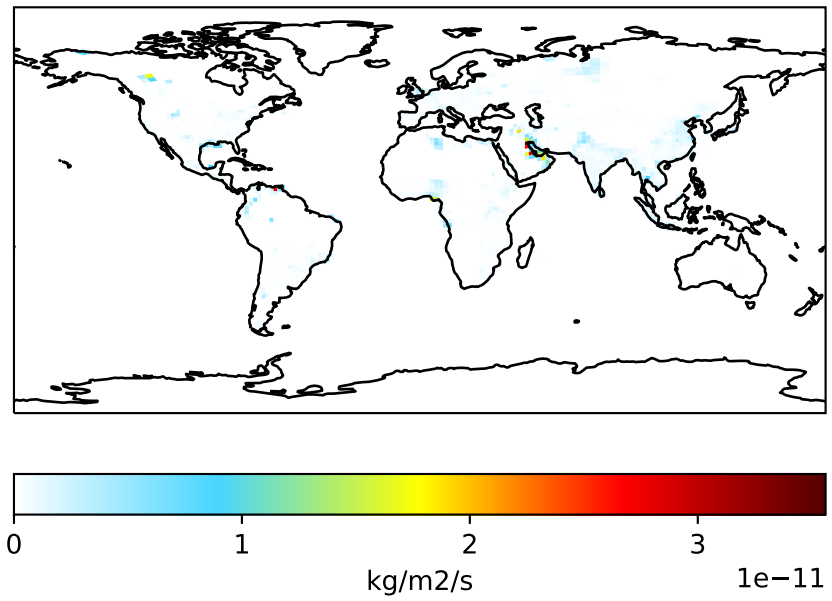


EmisCH2O_Anthro

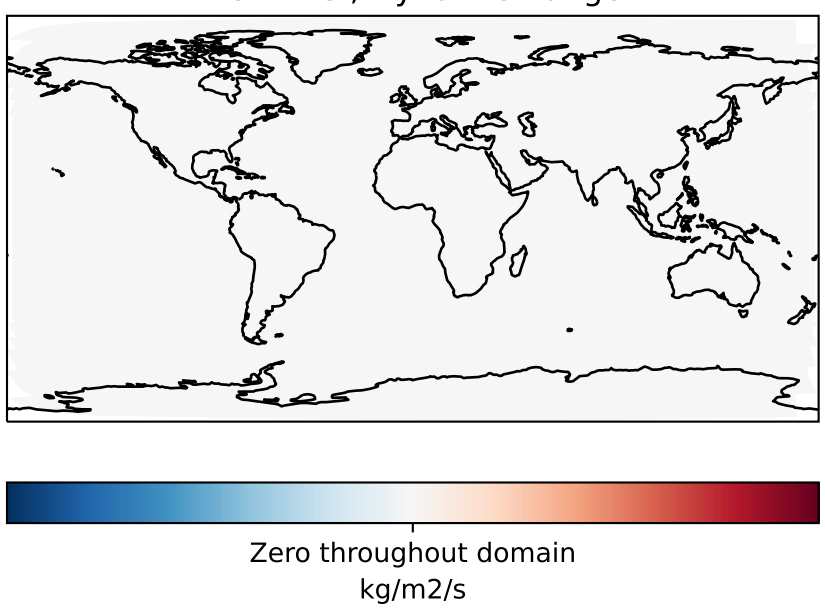
GCHP_13.3.0-rc.1 (Ref)
c48



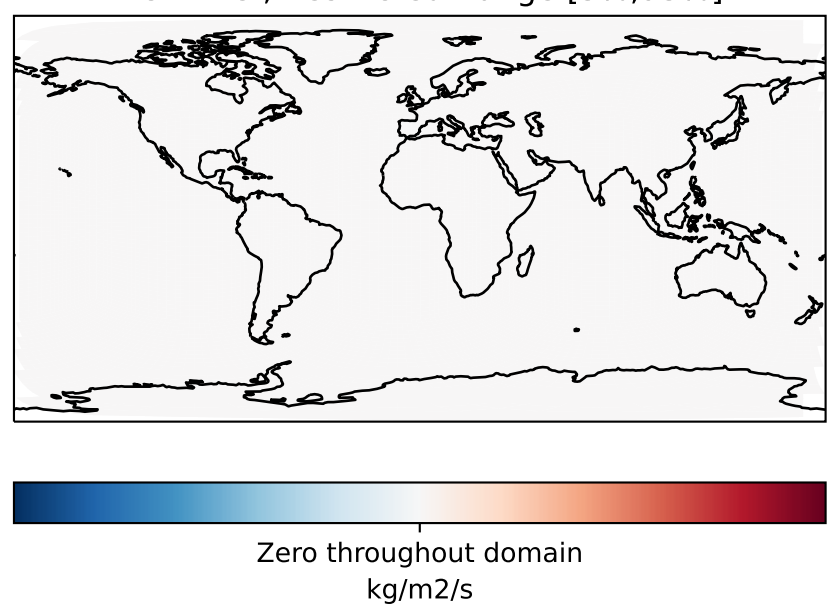
GCHP_13.4.0-rc.2 (Dev)
c48



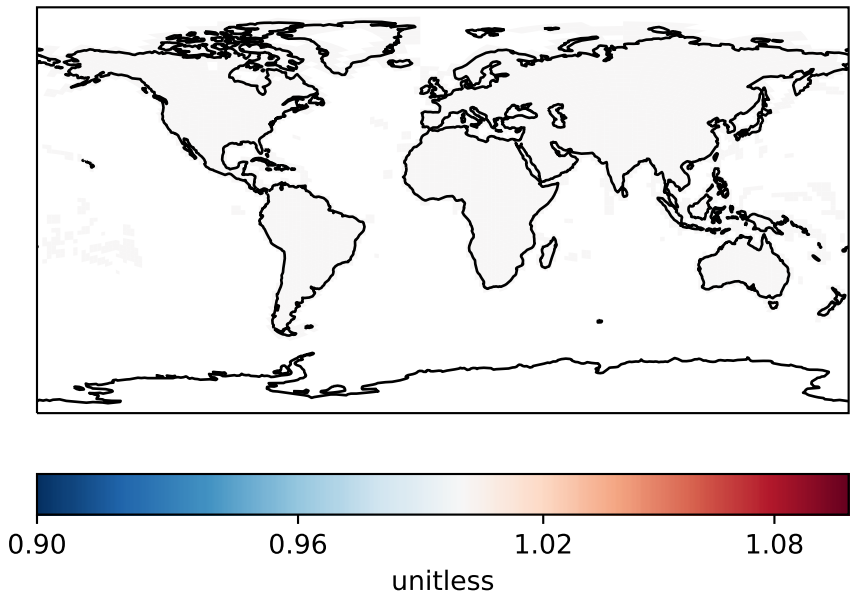
Difference
Dev - Ref, Dynamic Range



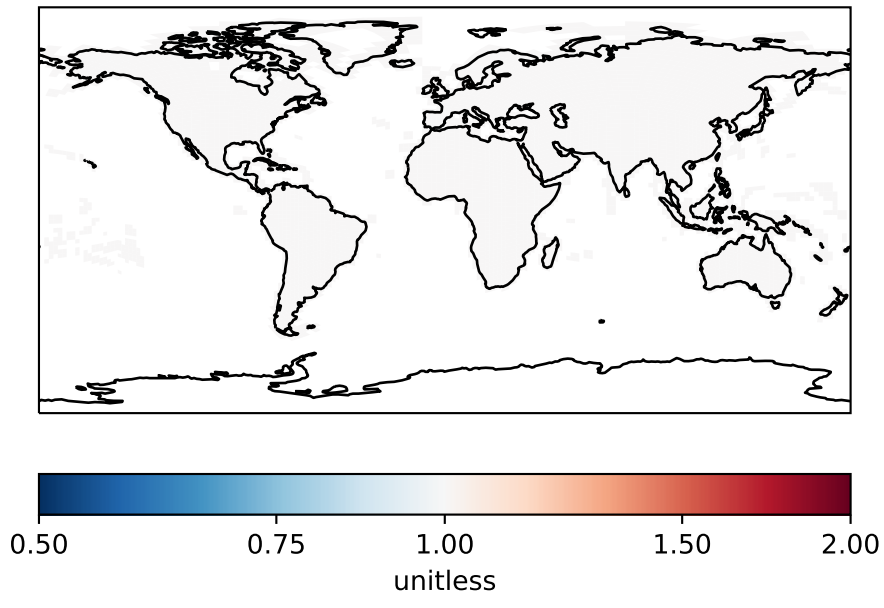
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

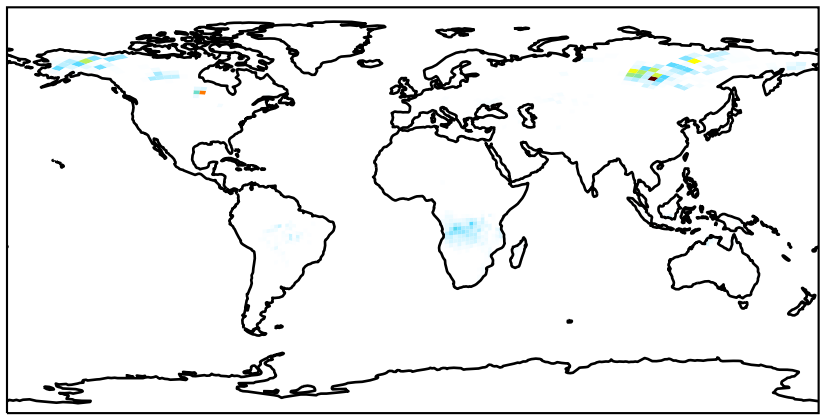


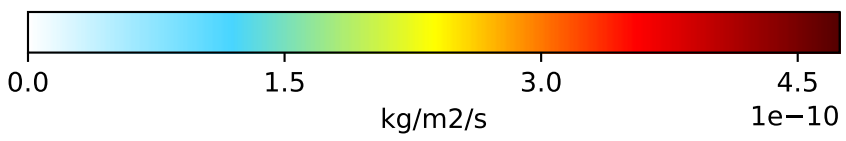
Ratio
Dev/Ref, Fixed Range



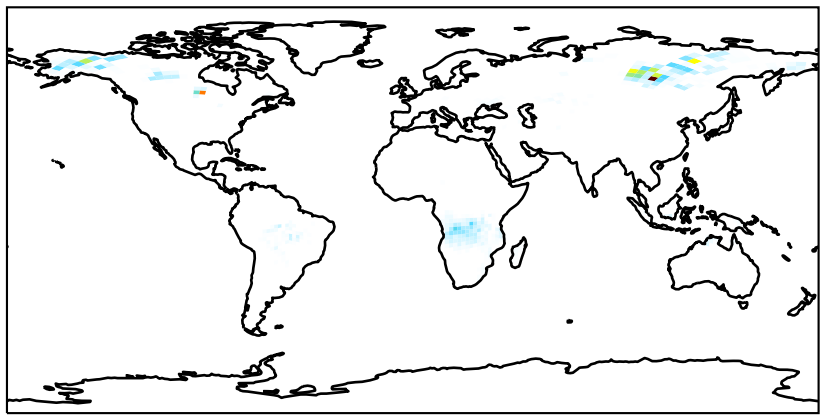
EmisCH2O_BioBurn

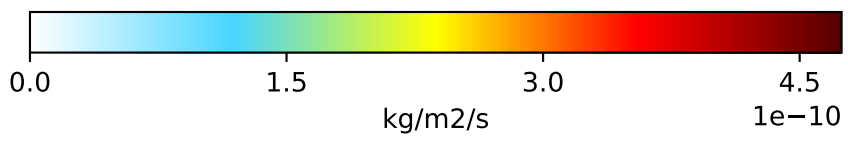
GCHP_13.3.0-rc.1 (Ref)
c48



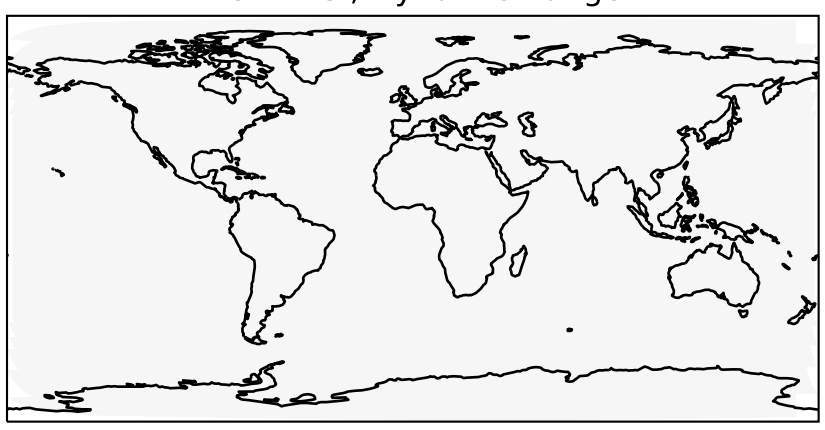


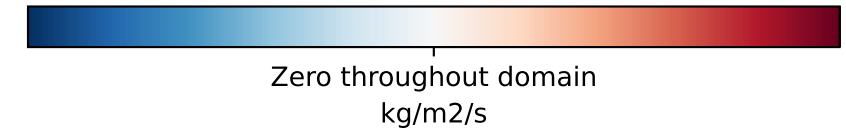
GCHP_13.4.0-rc.2 (Dev)
c48



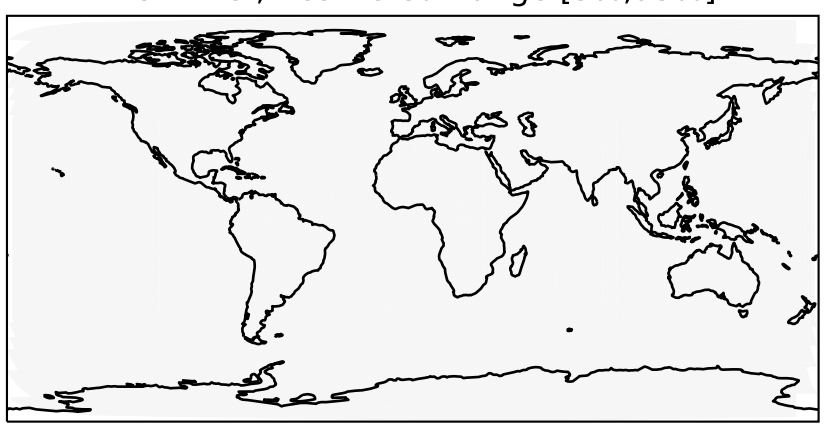


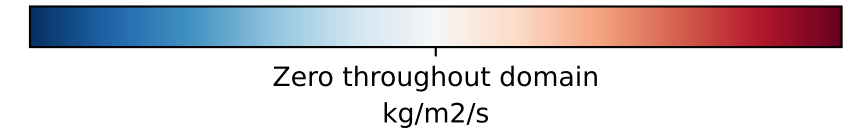
Difference
Dev - Ref, Dynamic Range



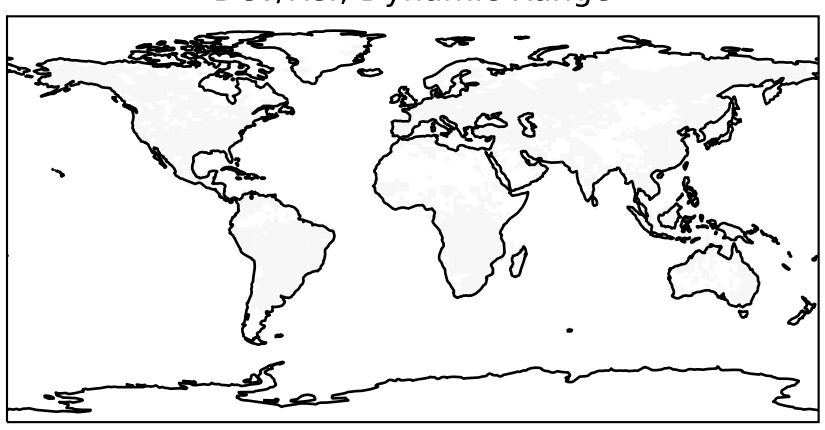


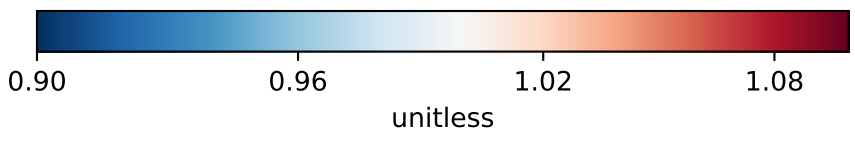
Difference
Dev - Ref, Restricted Range [5%,95%]



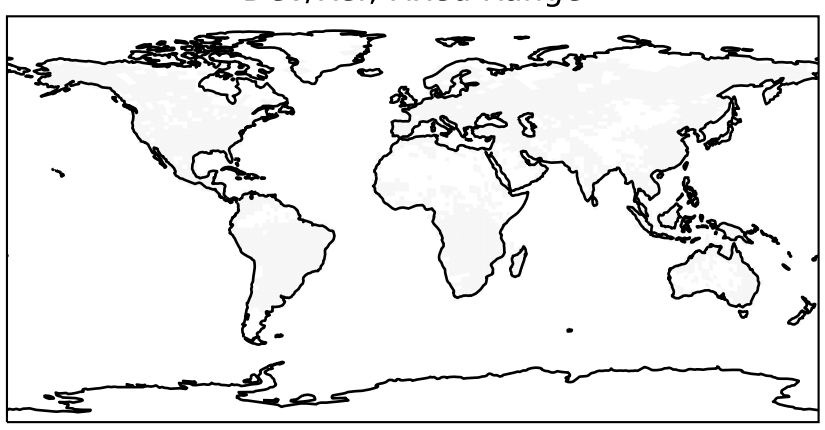


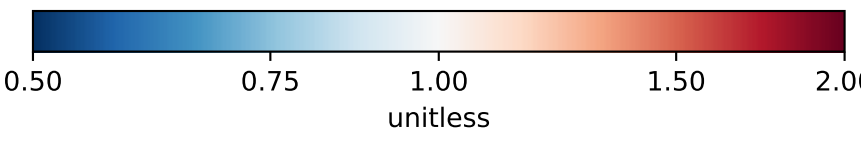
Ratio
Dev/Ref, Dynamic Range





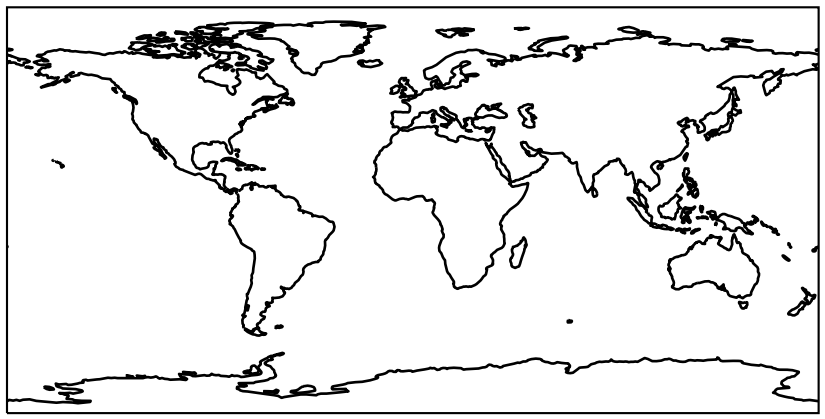
Ratio
Dev/Ref, Fixed Range





EmisCH2O_Ship

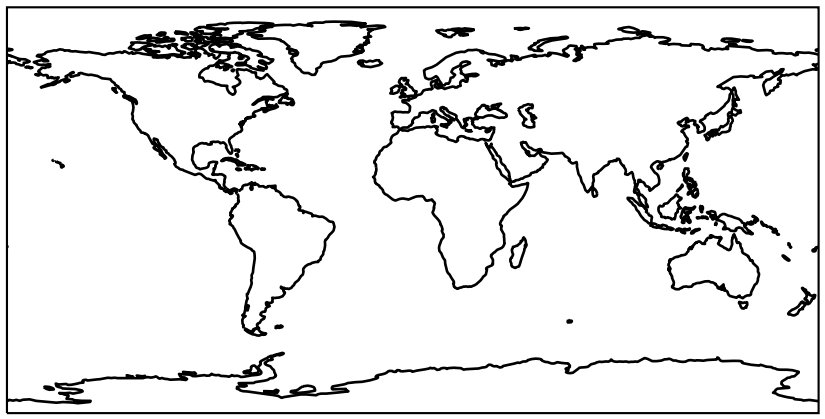
GCHP_13.3.0-rc.1 (Ref)
c48





Zero throughout domain
kg/m2/s

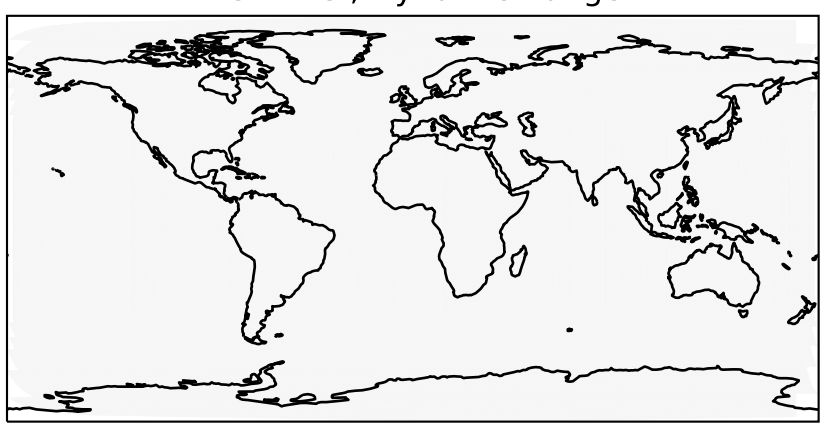
GCHP_13.4.0-rc.2 (Dev)
c48





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kg/m2/s

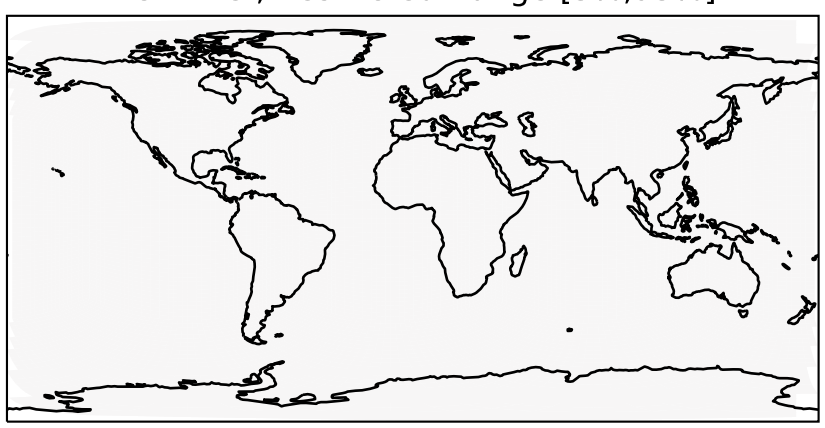
Difference
Dev - Ref, Dynamic Range





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kg/m2/s

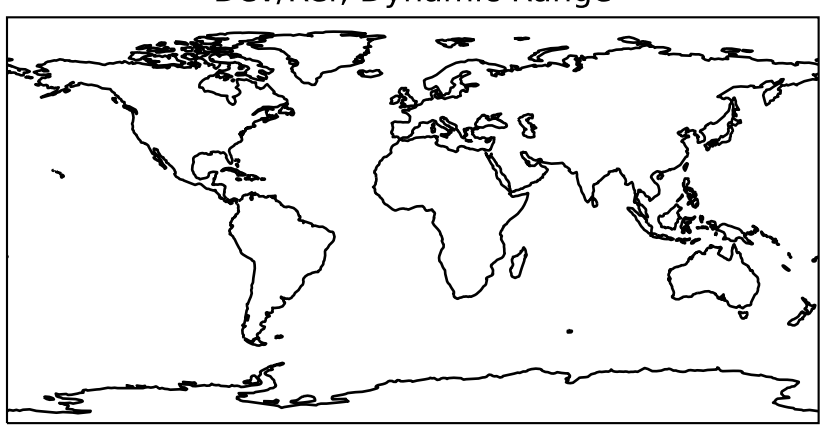
Difference
Dev - Ref, Restricted Range [5%,95%]





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kg/m2/s

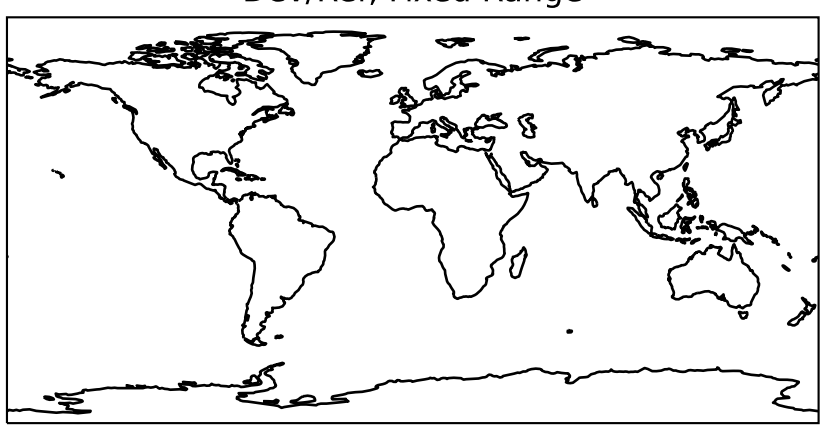
Ratio
Dev/Ref, Dynamic Range





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Ratio
Dev/Ref, Fixed Range

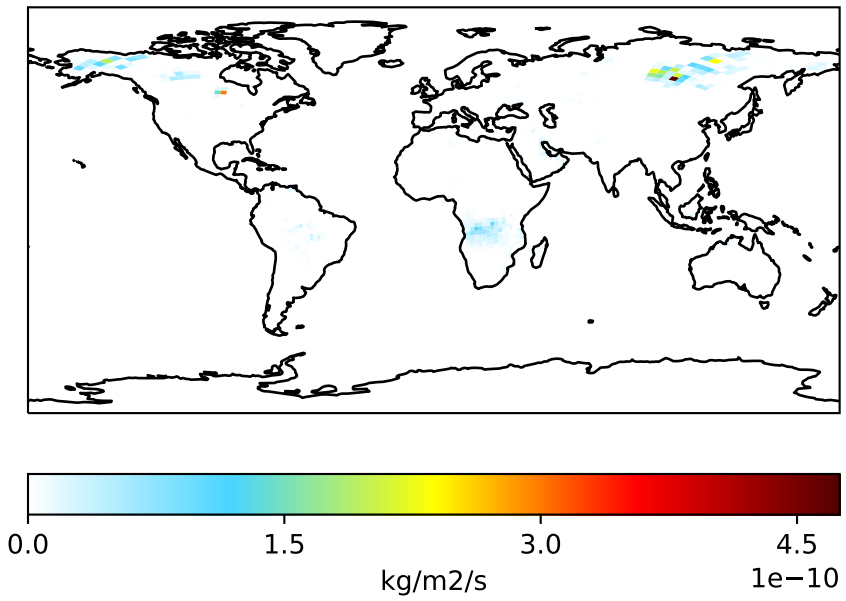




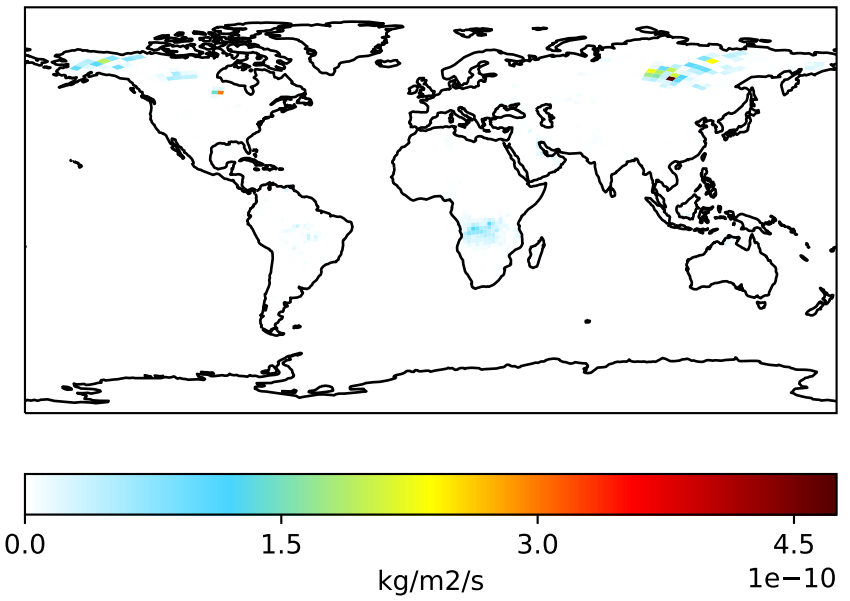
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EmisCH2O_Total

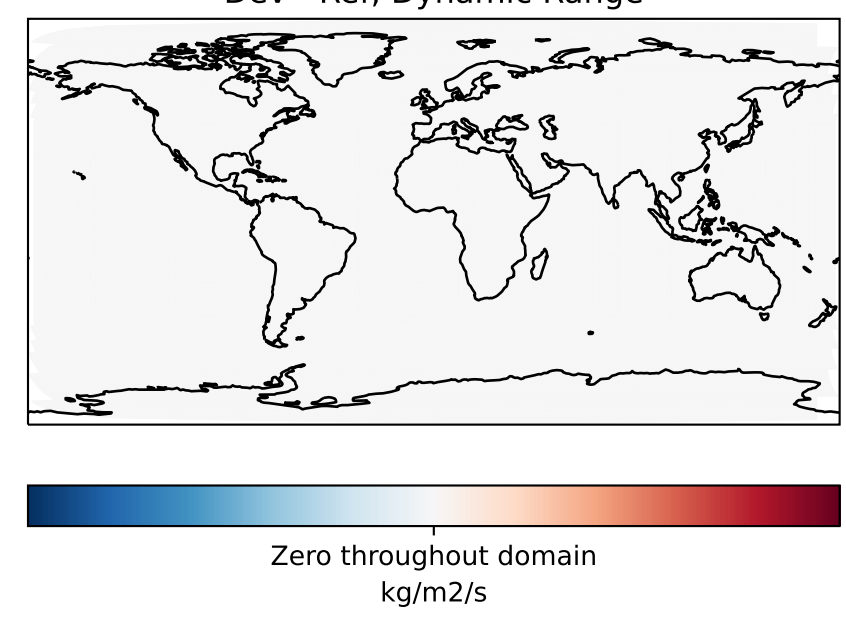
GCHP_13.3.0-rc.1 (Ref)
c48



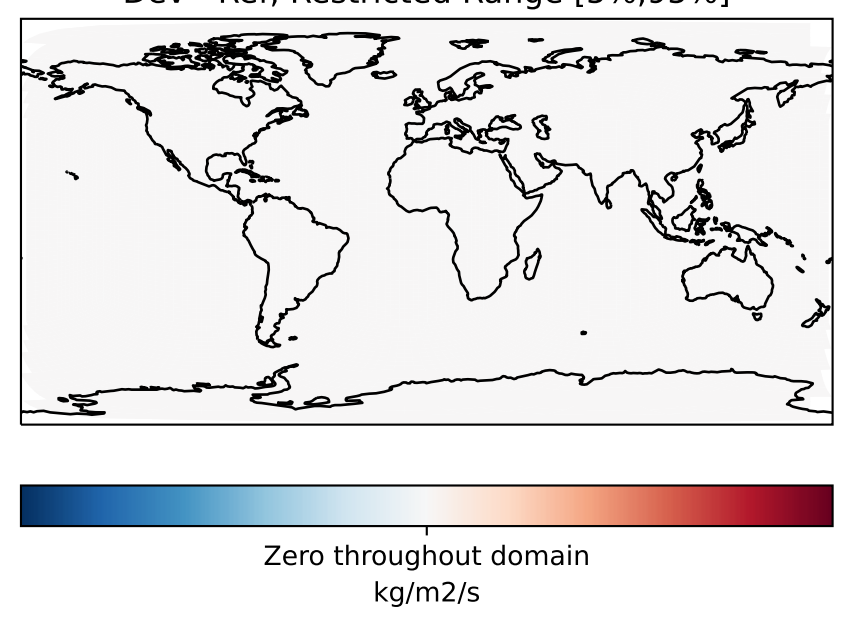
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c48



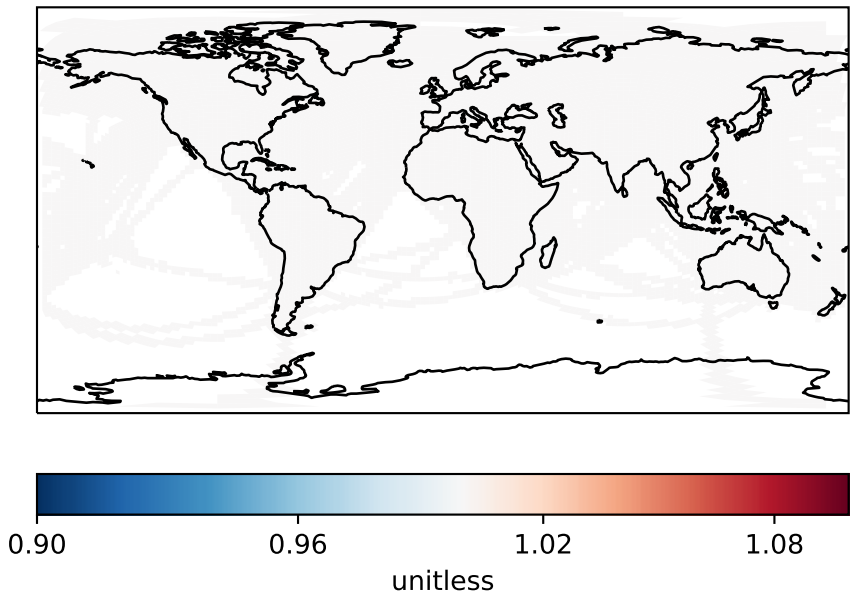
Difference
Dev - Ref, Dynamic Range



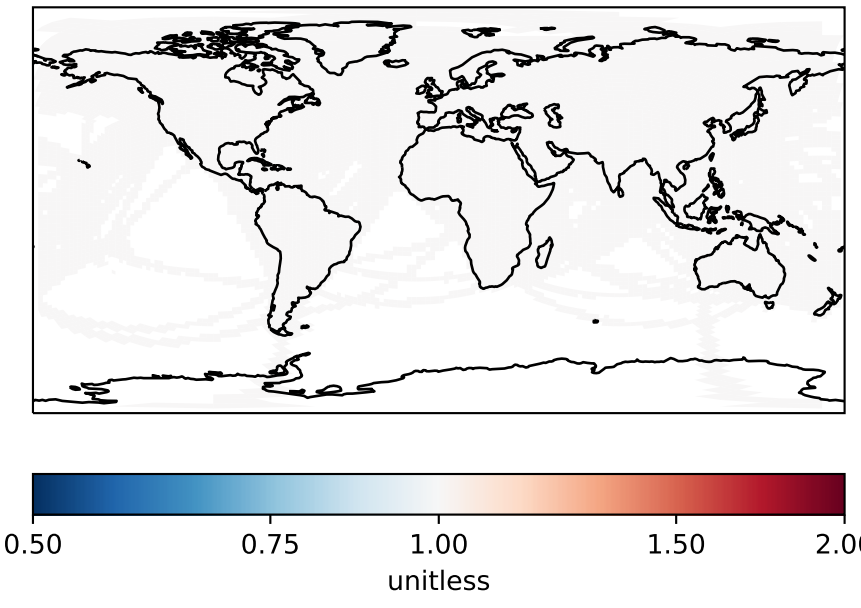
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

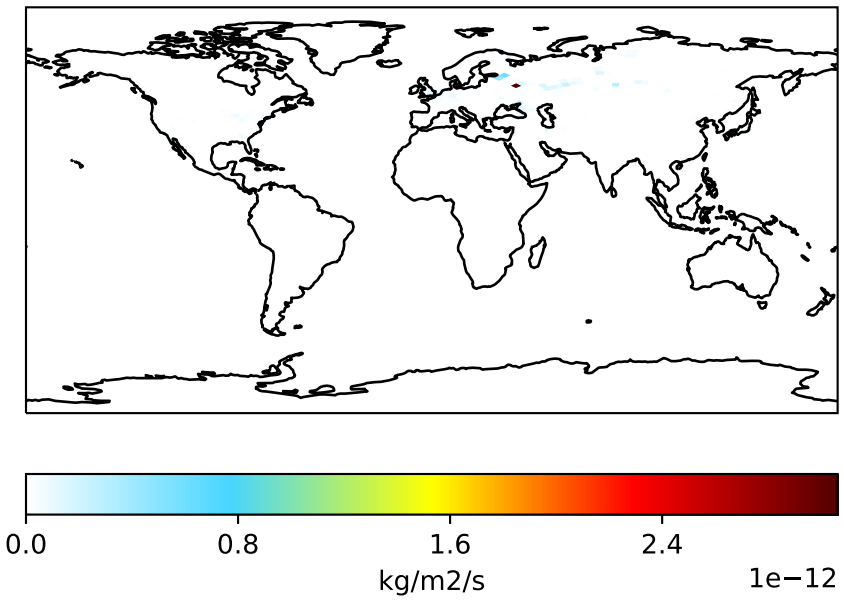


Ratio
Dev/Ref, Fixed Range

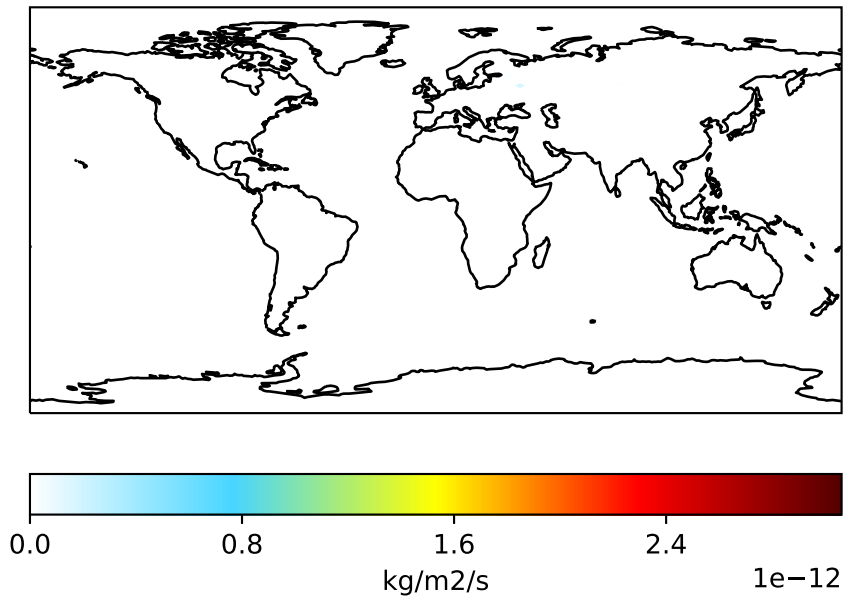


EmisMACR_Aircraft

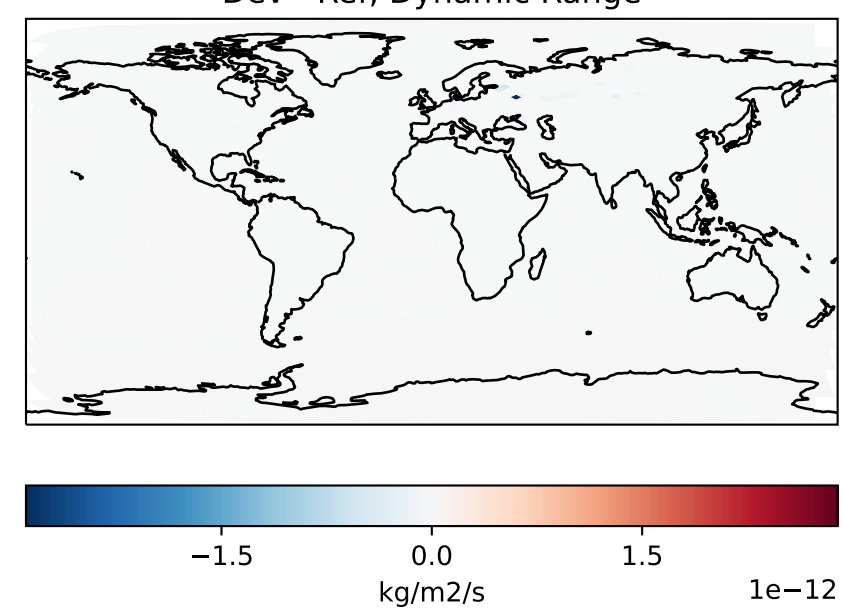
GCHP_13.3.0-rc.1 (Ref)
c48



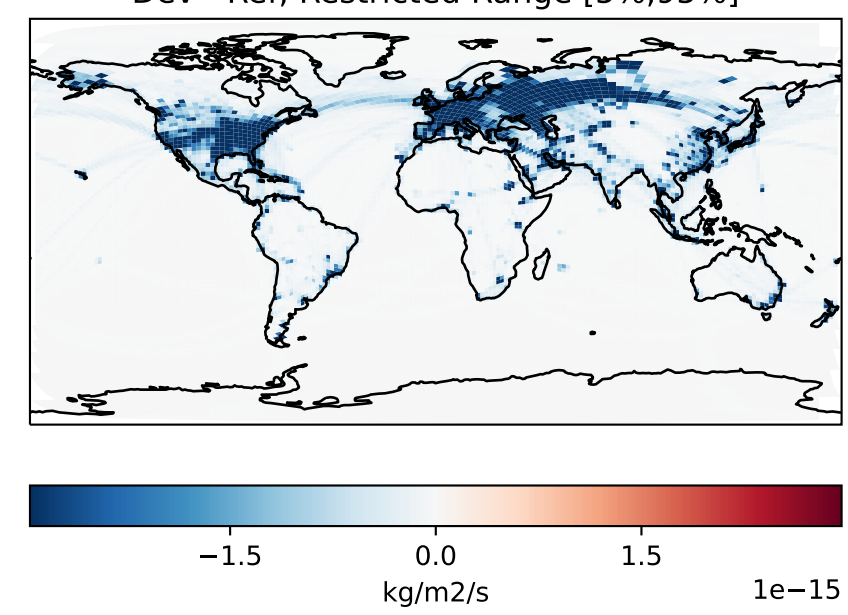
GCHP_13.4.0-rc.2 (Dev)
c48



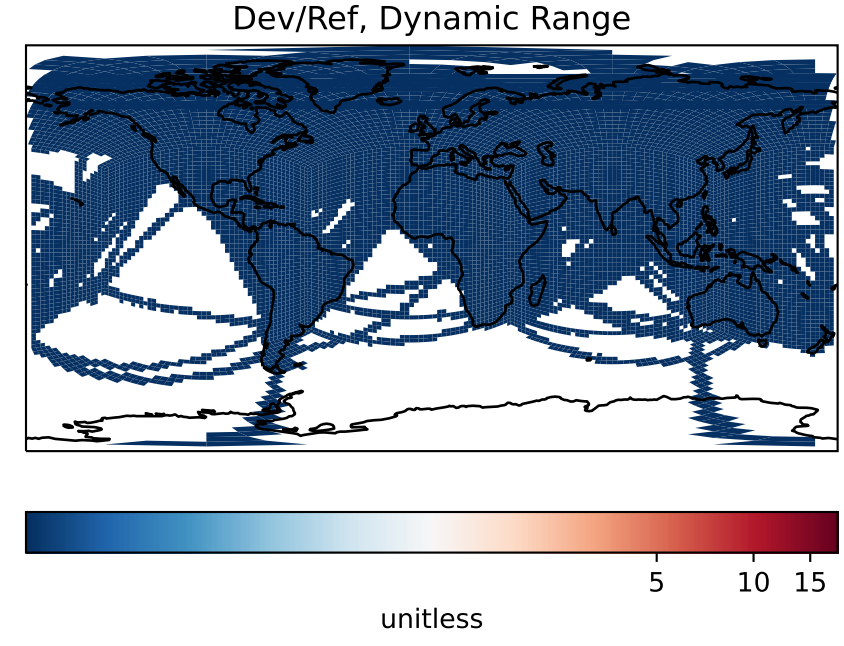
Difference
Dev - Ref, Dynamic Range



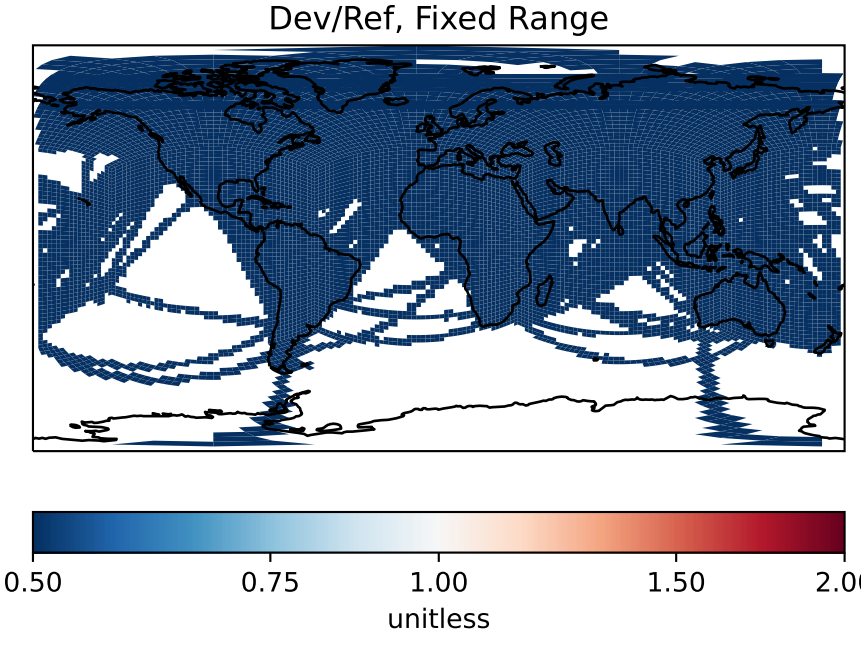
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

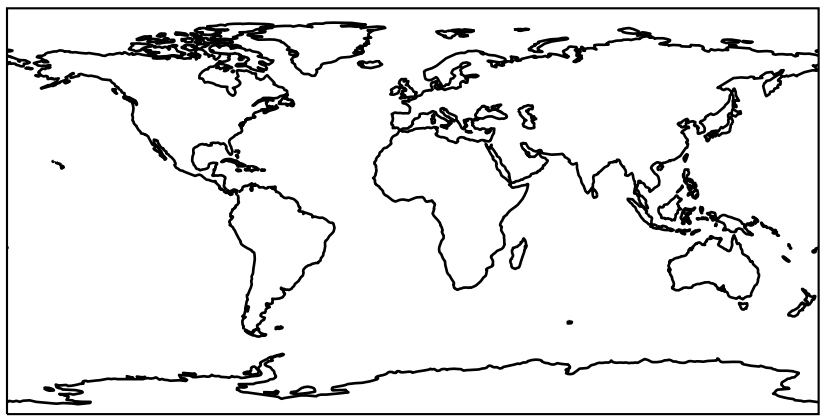


Ratio
Dev/Ref, Fixed Range



EmisMACR_Anthro

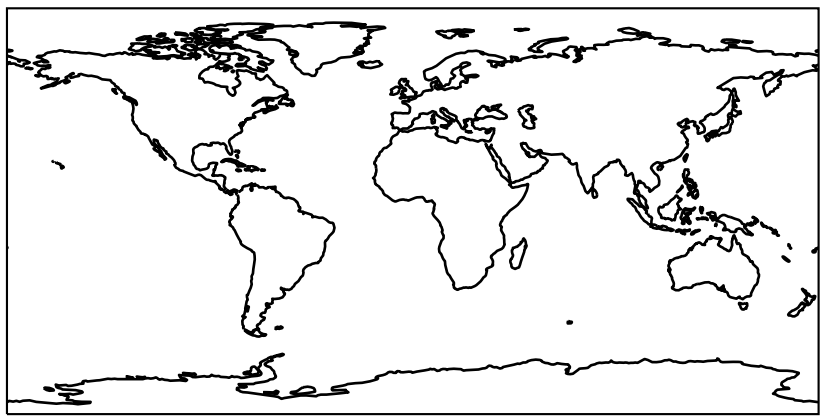
GCHP_13.3.0-rc.1 (Ref)
c48





Zero throughout domain
kg/m2/s

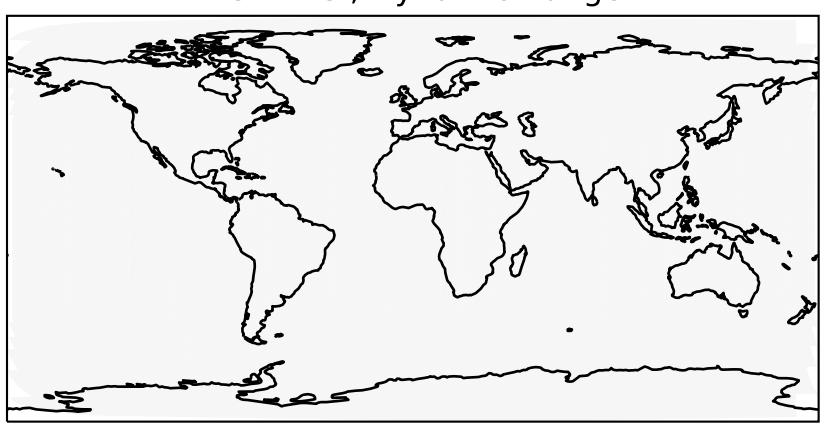
GCHP_13.4.0-rc.2 (Dev)
c48





Zero throughout domain
kg/m2/s

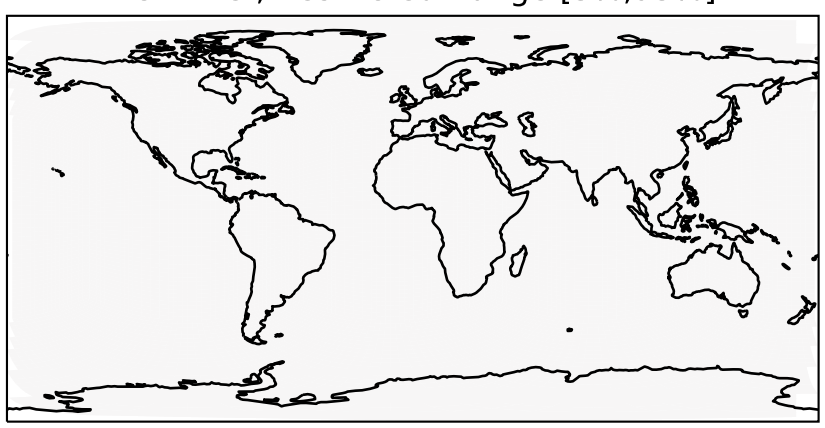
Difference
Dev - Ref, Dynamic Range





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kg/m2/s

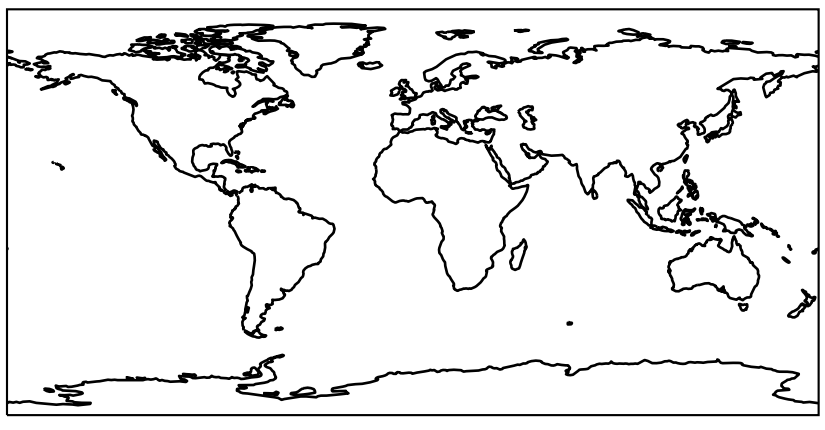
Difference
Dev - Ref, Restricted Range [5%,95%]





Zero throughout domain
kg/m2/s

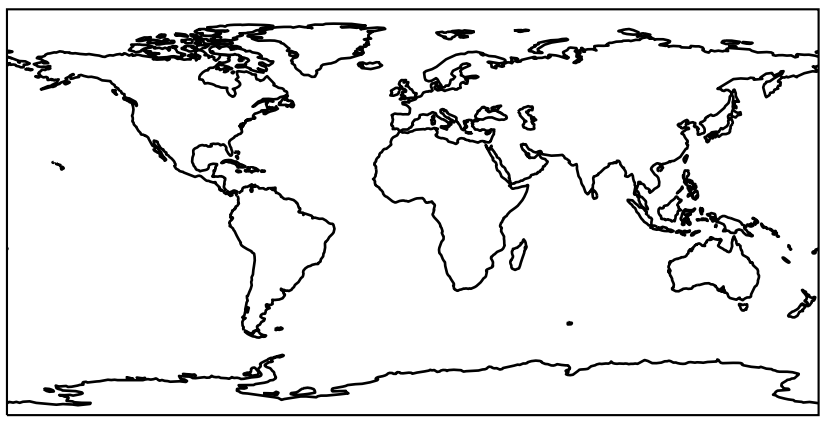
Ratio
Dev/Ref, Dynamic Range





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Ratio
Dev/Ref, Fixed Range

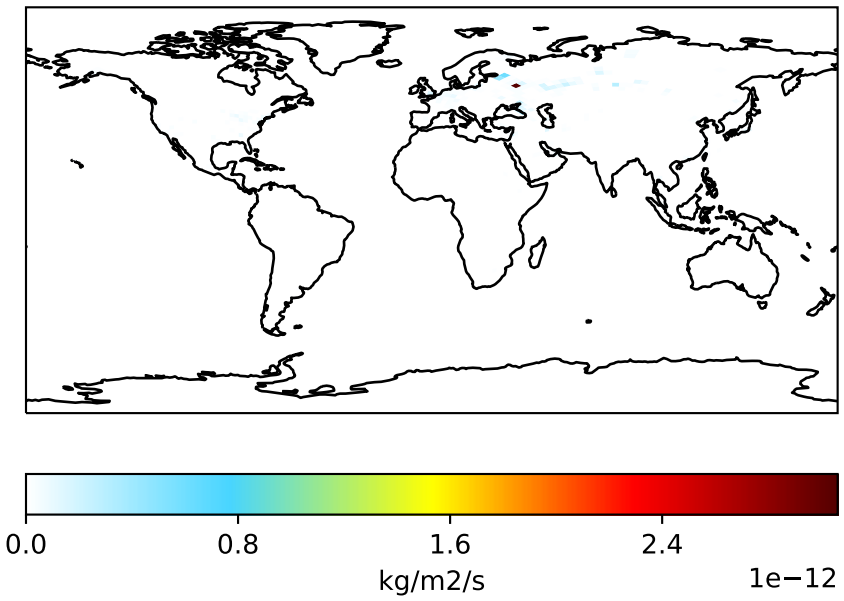




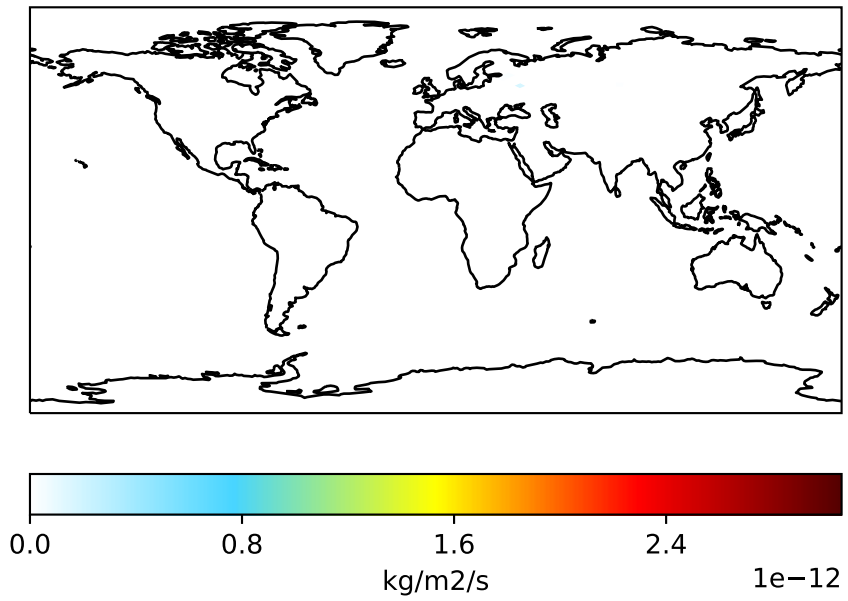
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unitless

EmisMACR_Total

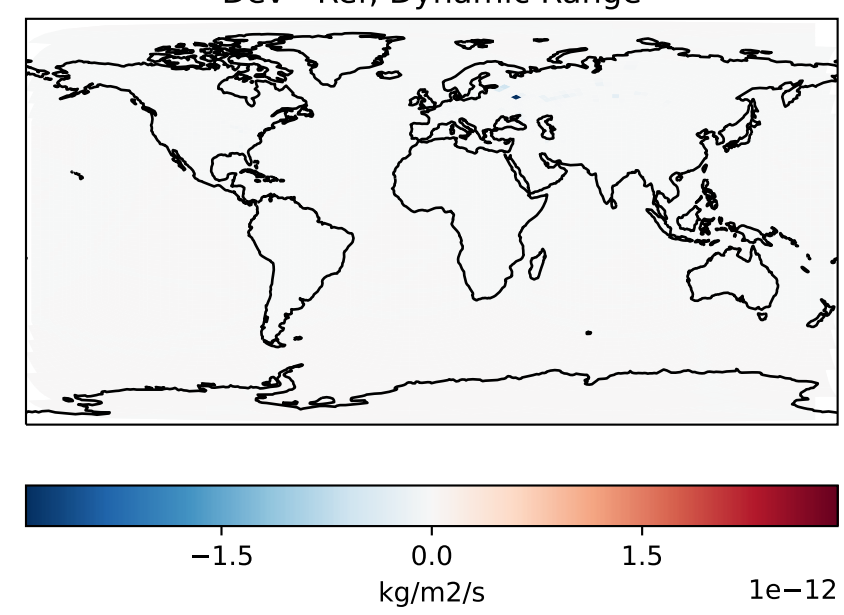
GCHP_13.3.0-rc.1 (Ref)
c48



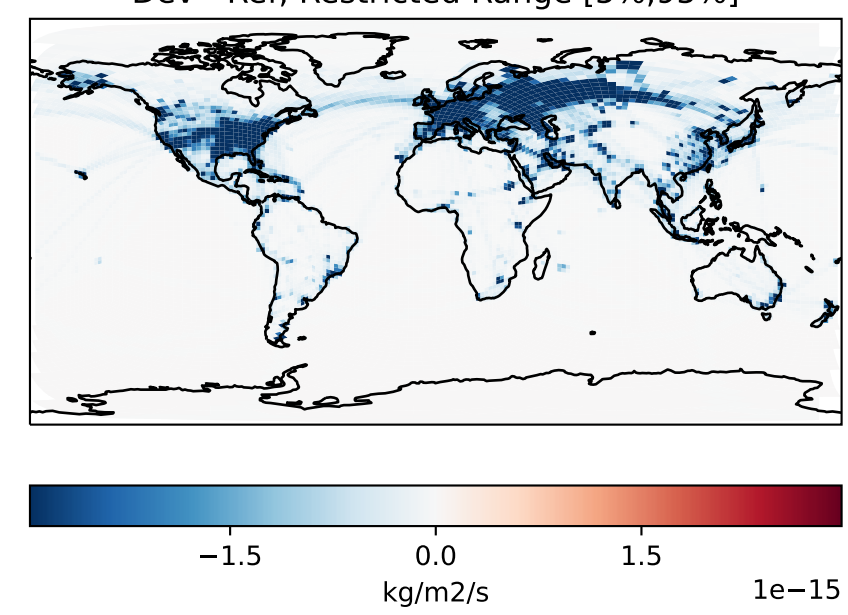
GCHP_13.4.0-rc.2 (Dev)
c48



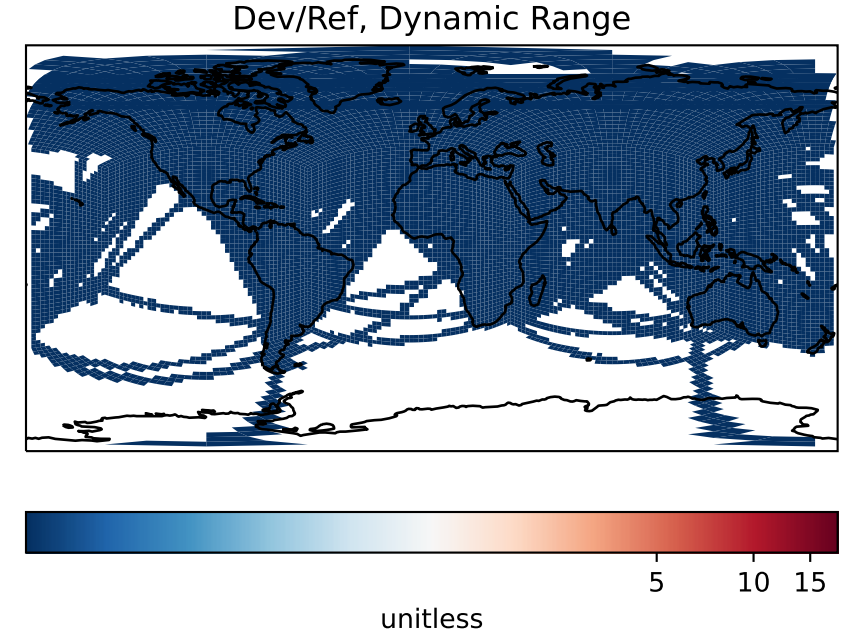
Difference
Dev - Ref, Dynamic Range



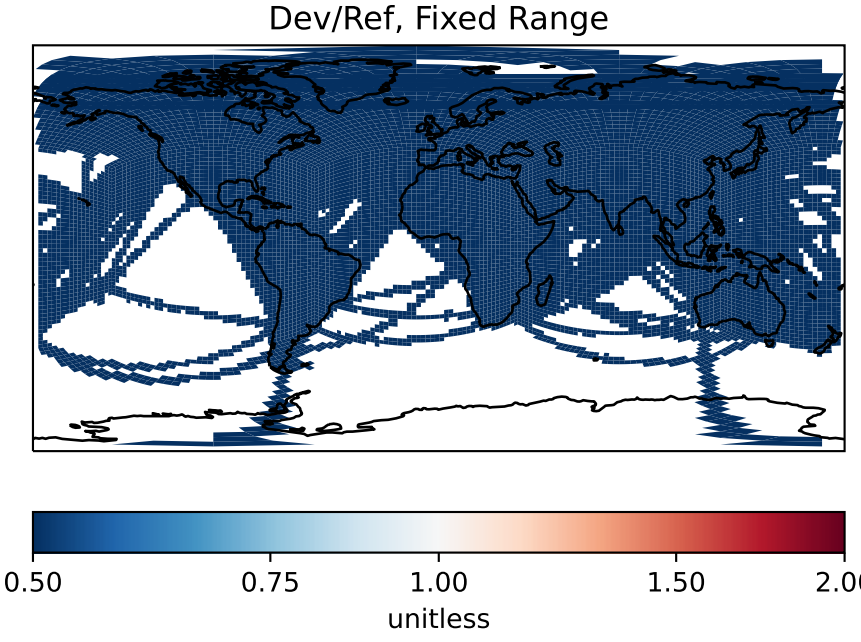
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

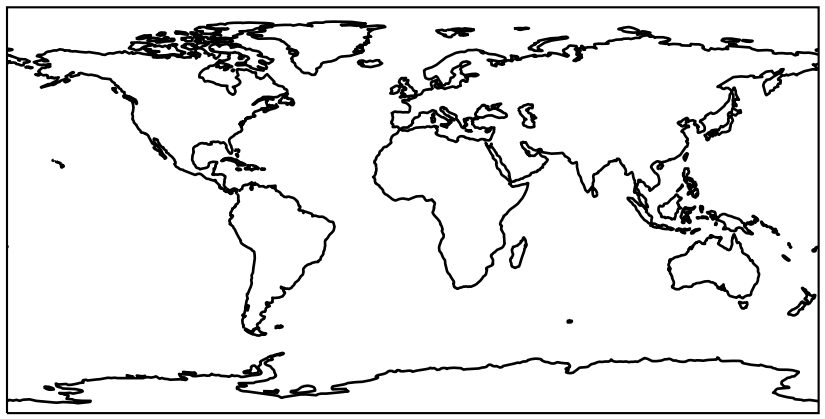


Ratio
Dev/Ref, Fixed Range



EmisACET_Anthro

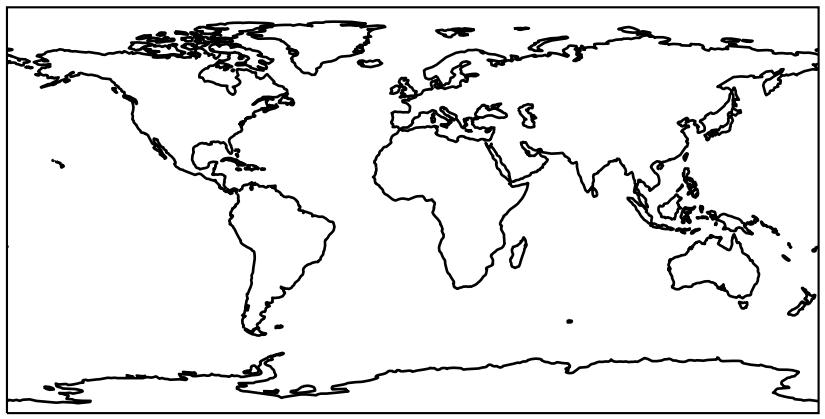
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c48





Zero throughout domain
kg/m2/s

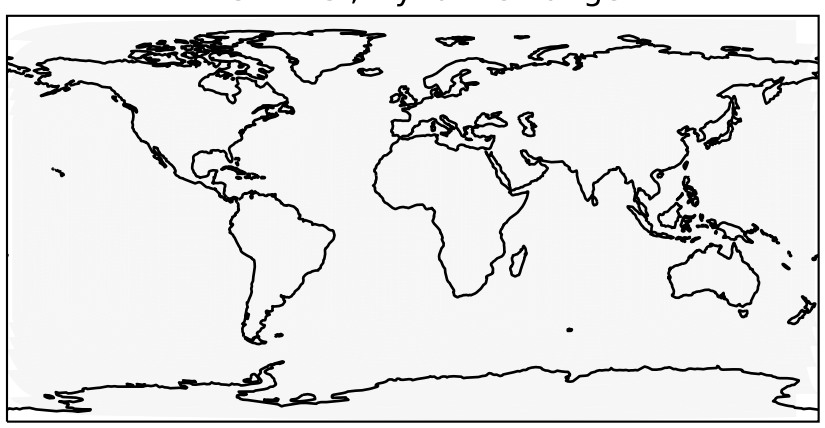
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kg/m2/s

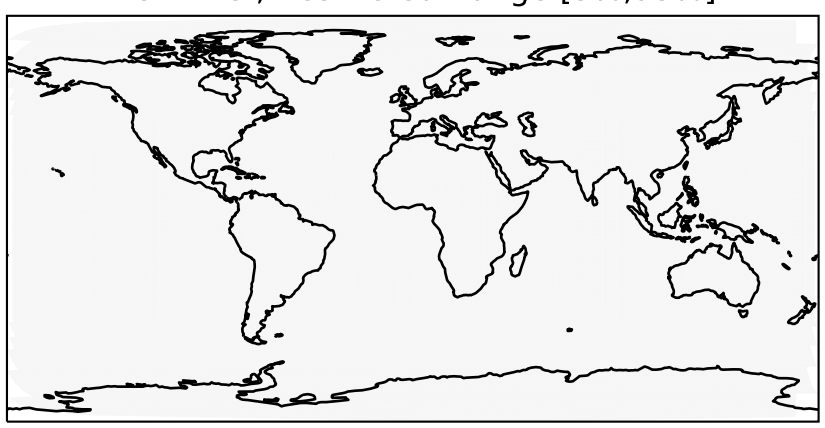
Difference
Dev - Ref, Dynamic Range





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kg/m2/s

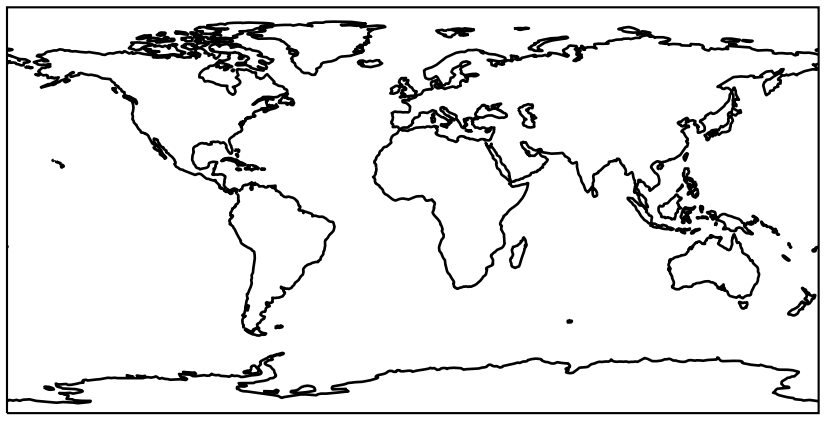
Difference
Dev - Ref, Restricted Range [5%,95%]





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kg/m2/s

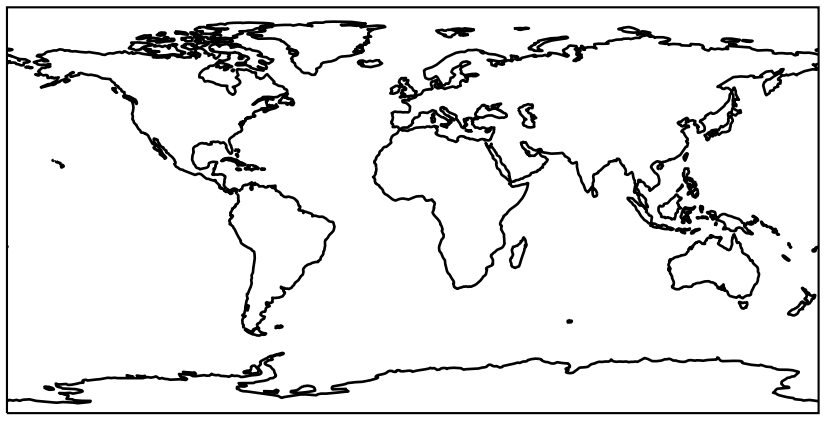
Ratio
Dev/Ref, Dynamic Range





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Ratio
Dev/Ref, Fixed Range

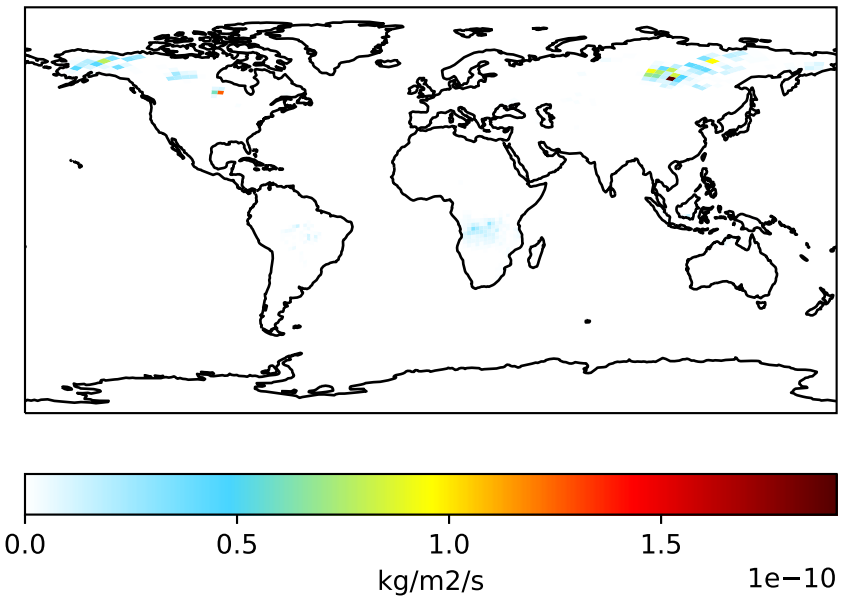




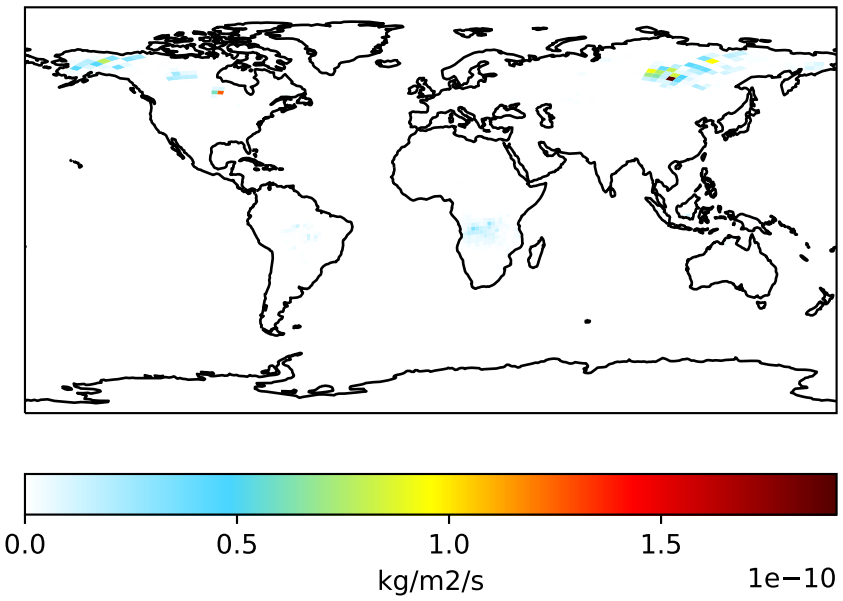
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EmisACET_BioBurn

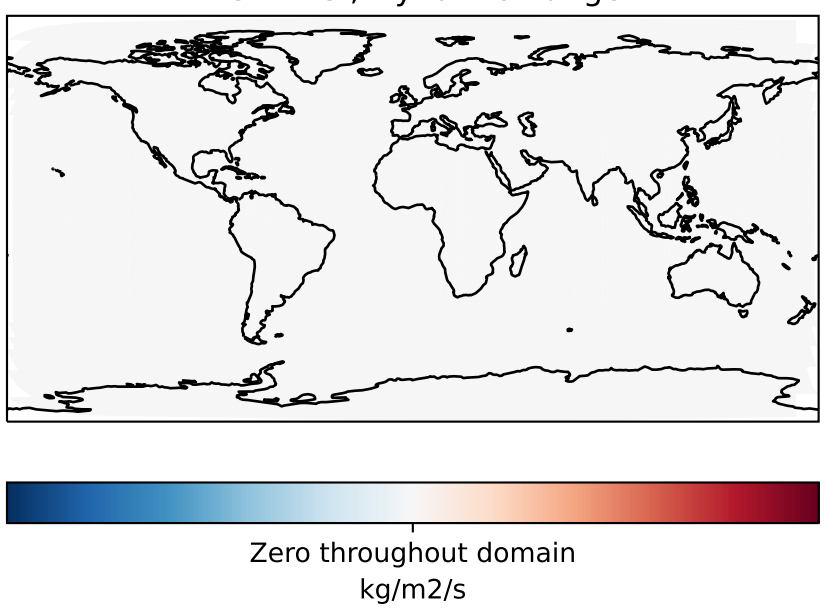
GCHP_13.3.0-rc.1 (Ref)
c48



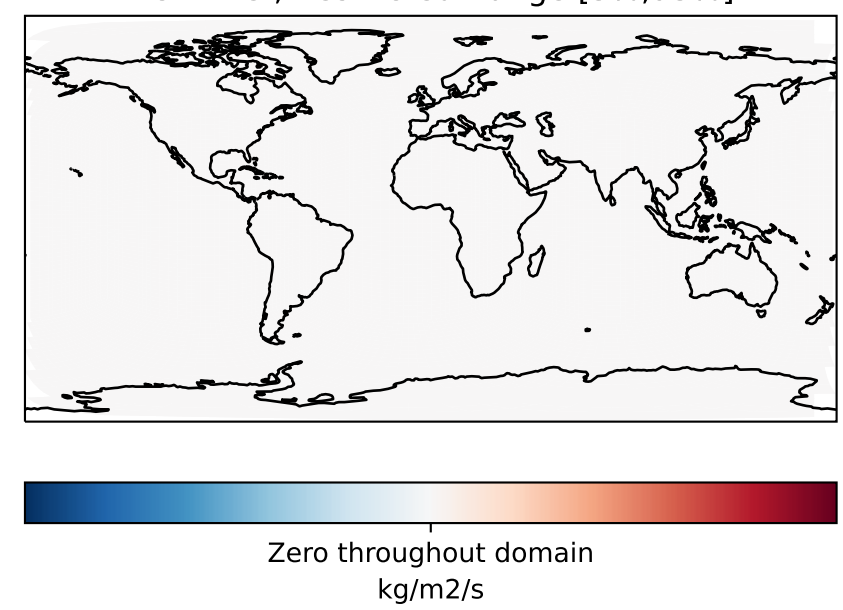
GCHP_13.4.0-rc.2 (Dev)
c48



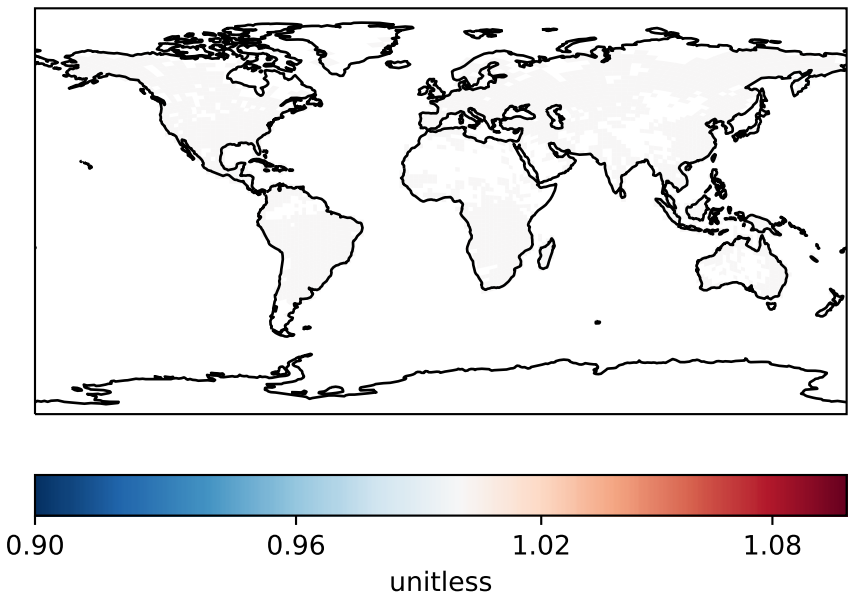
Difference
Dev - Ref, Dynamic Range



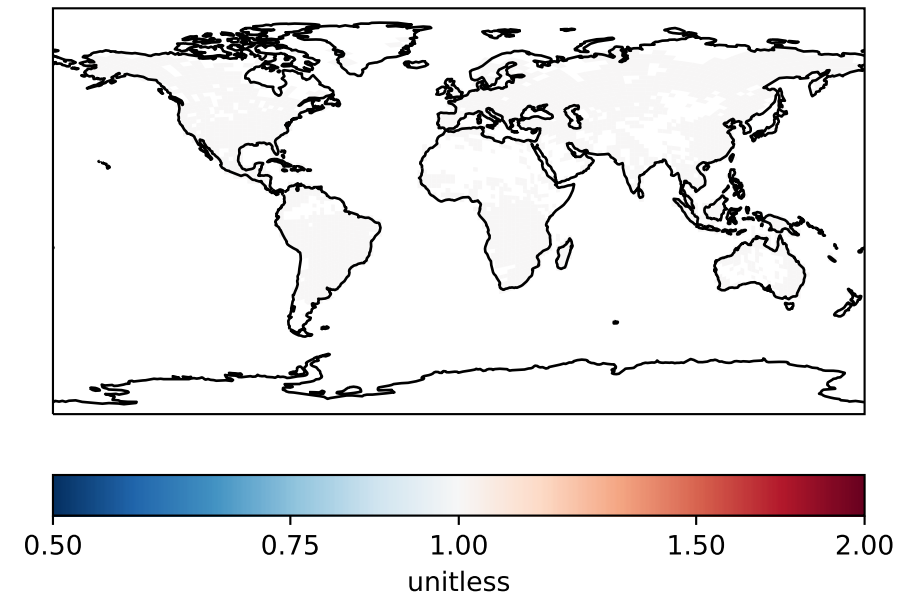
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

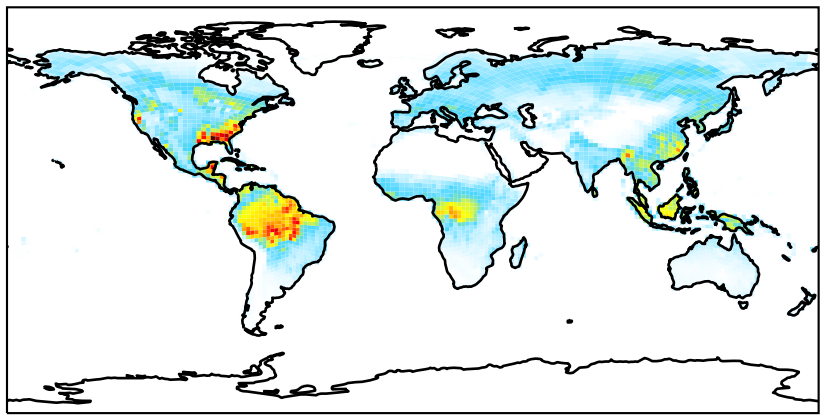


Ratio
Dev/Ref, Fixed Range

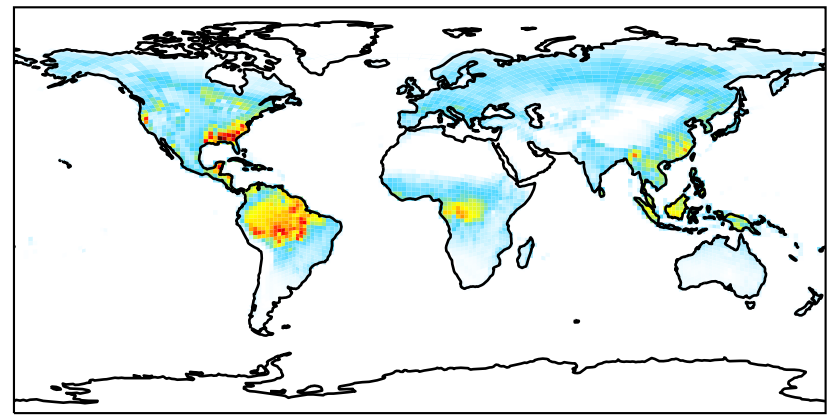


EmisACET_Biogenic

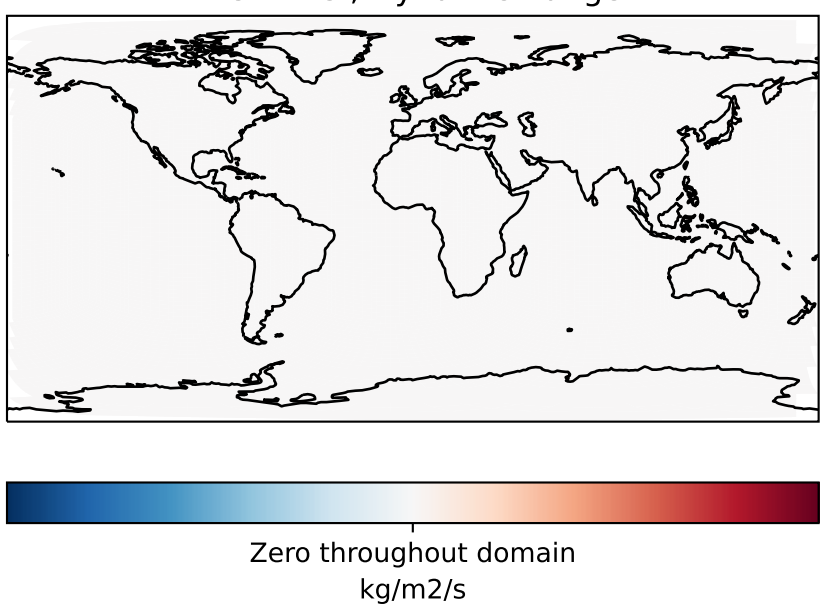
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c48



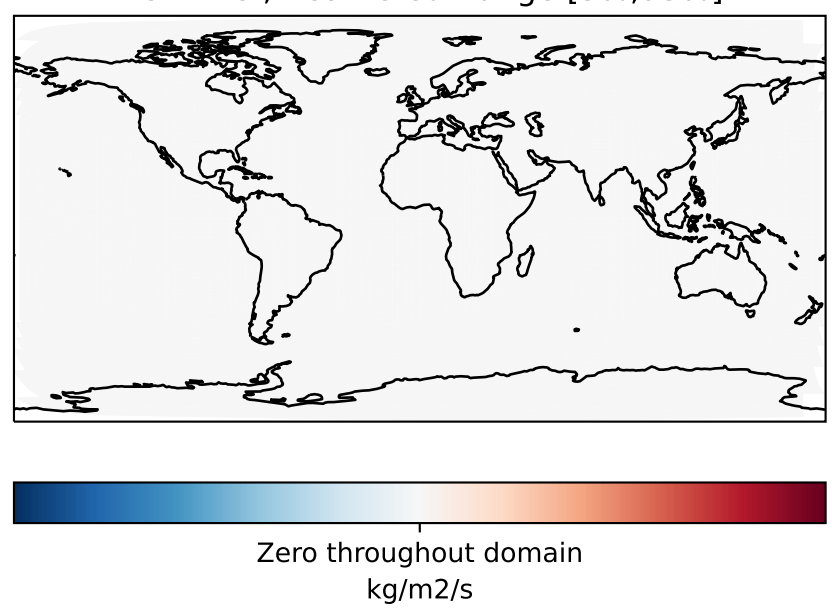
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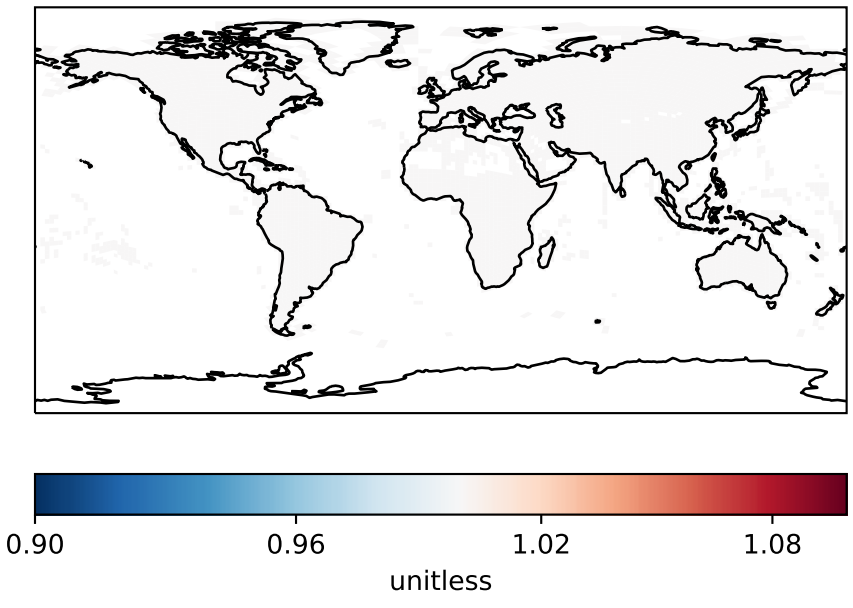
Difference
Dev - Ref, Dynamic Range



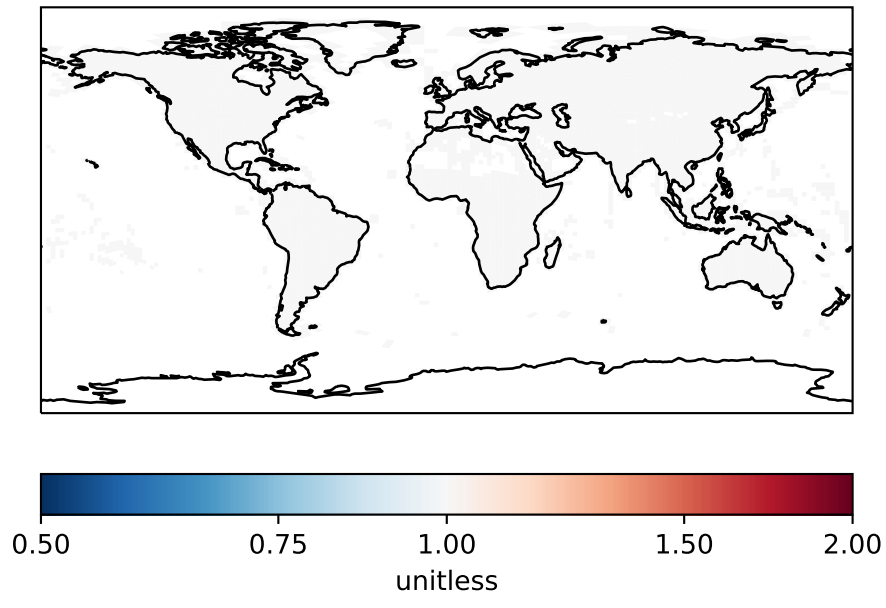
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

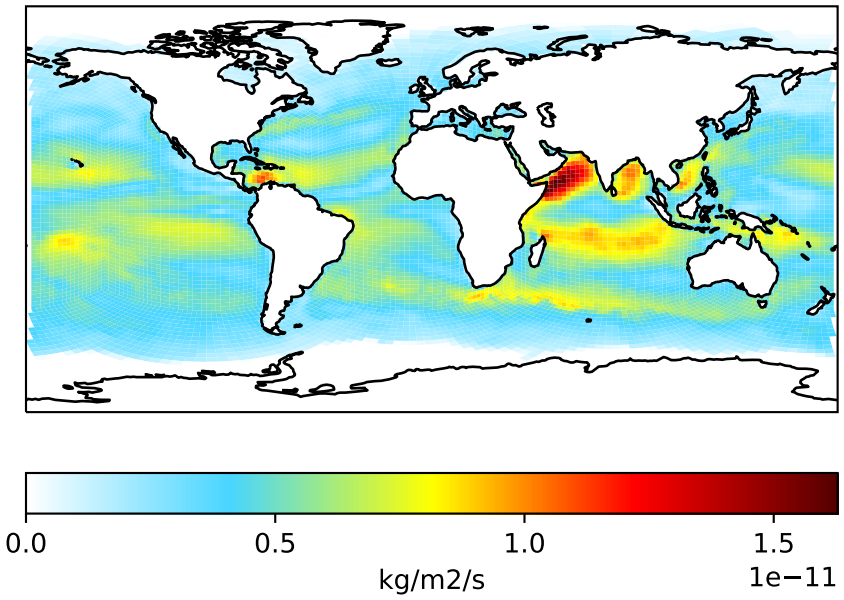


Ratio
Dev/Ref, Fixed Range

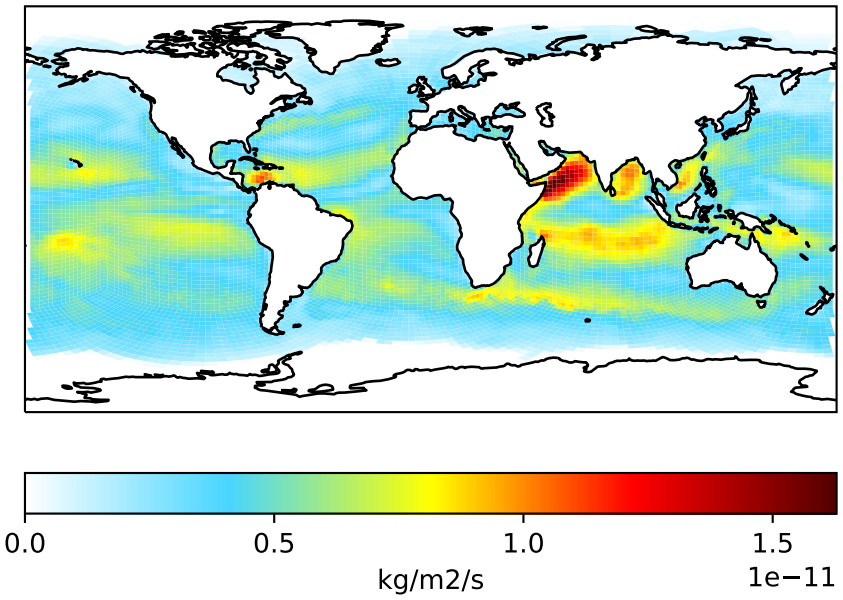


EmisACET_Ocean

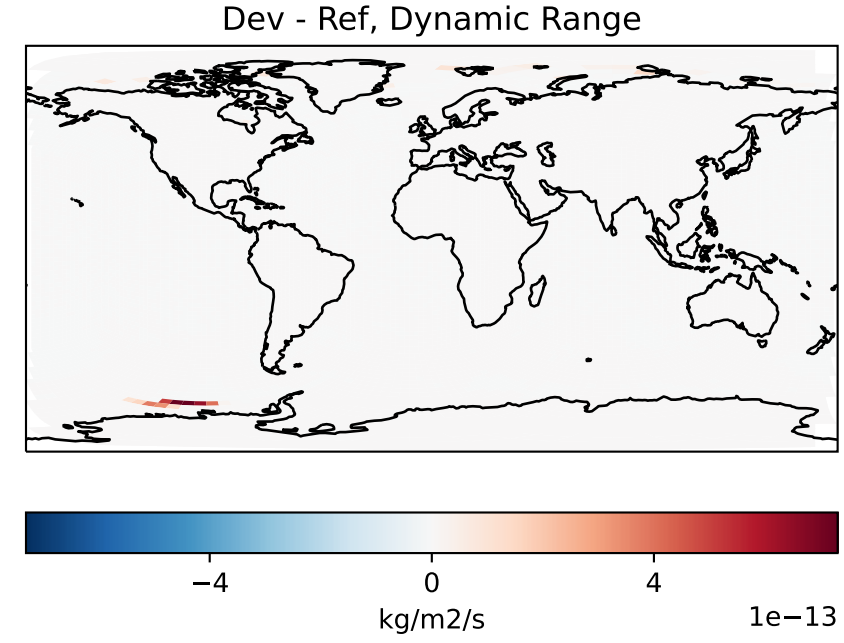
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c48



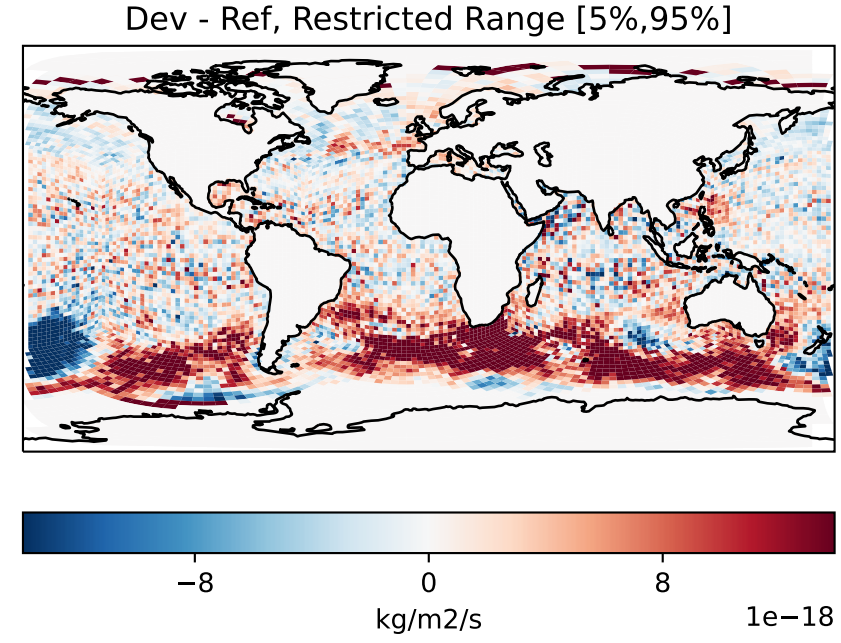
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c48



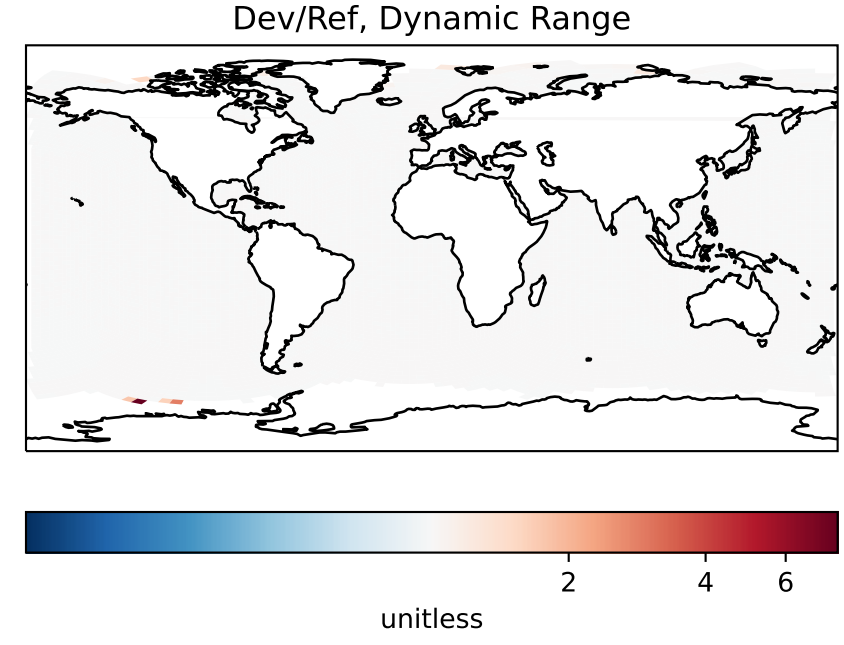
Difference
Dev - Ref, Dynamic Range



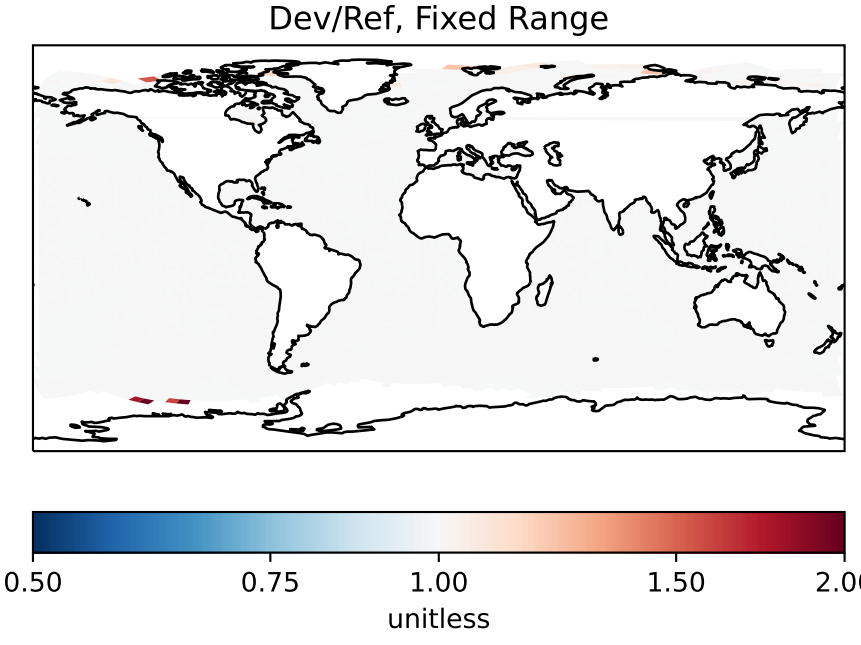
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

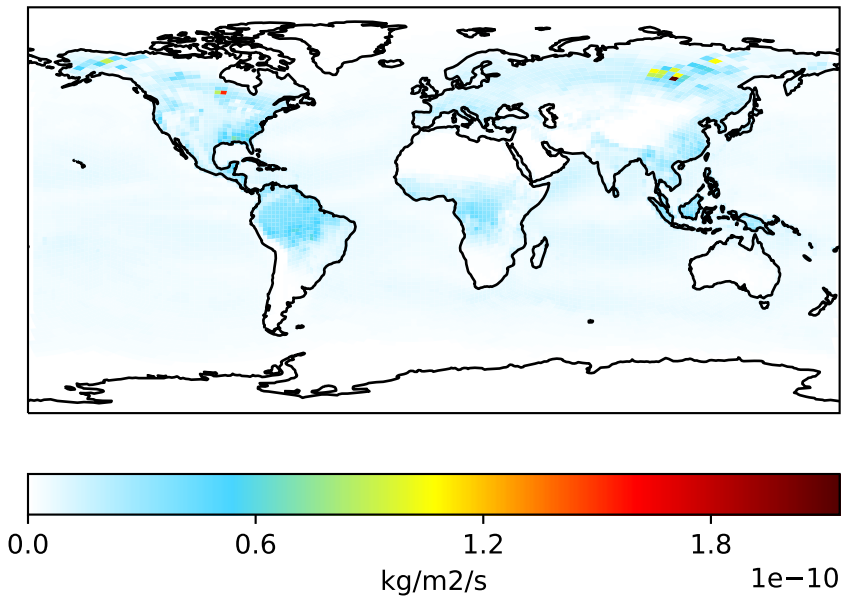


Ratio
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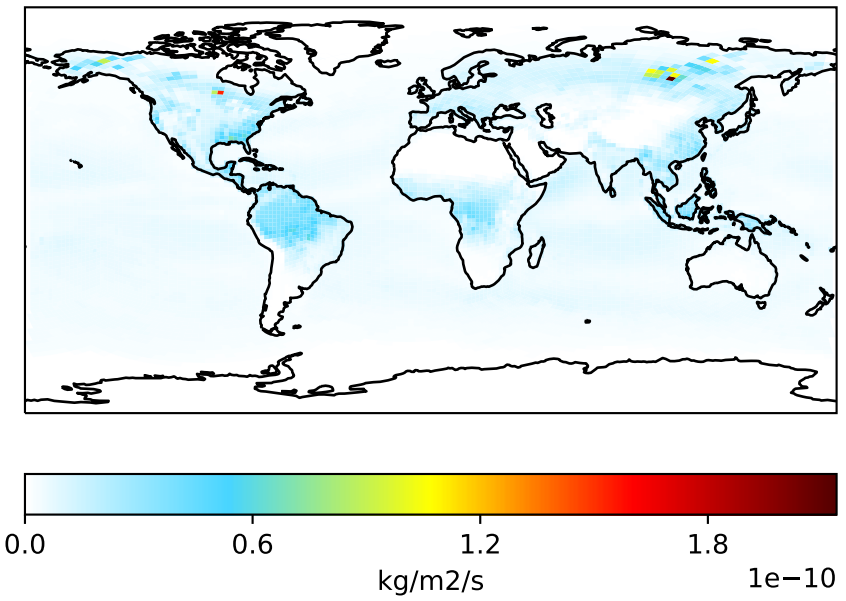


EmisACET_Total

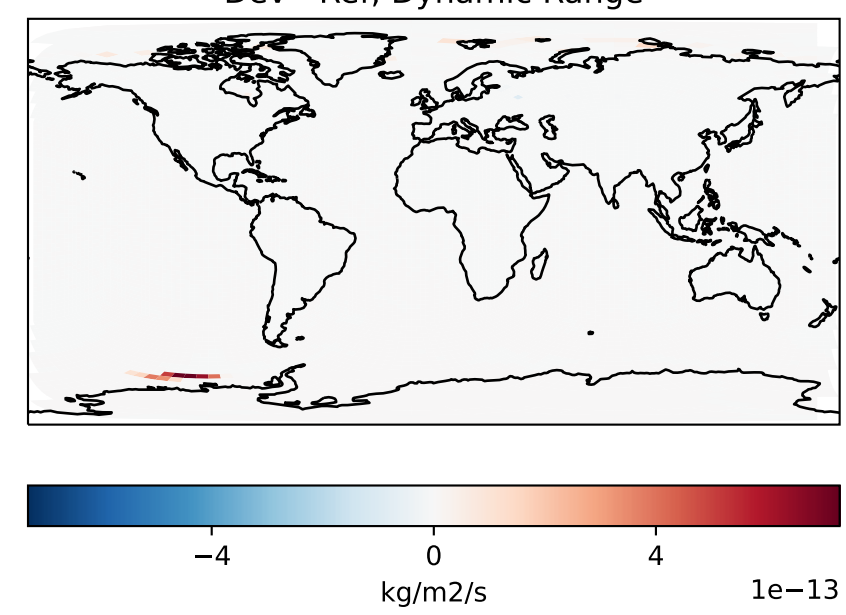
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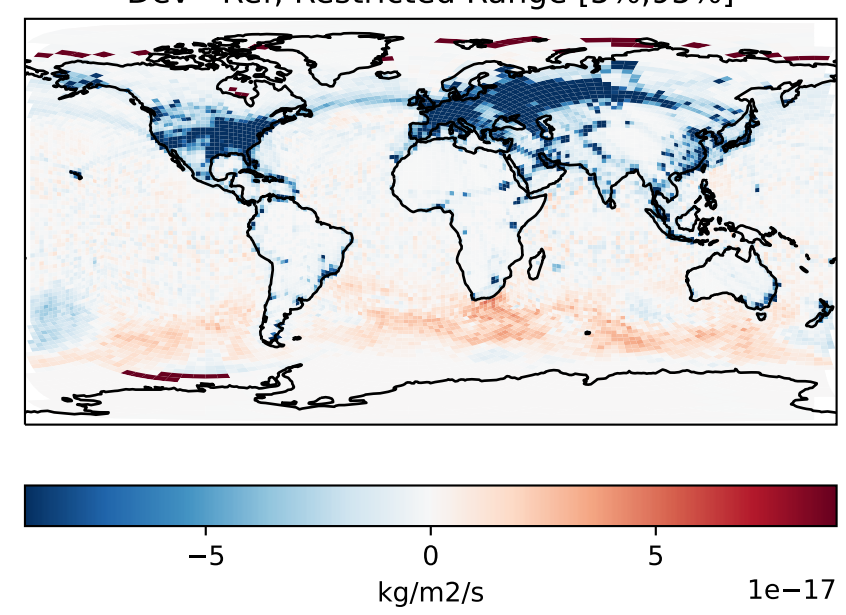
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c48



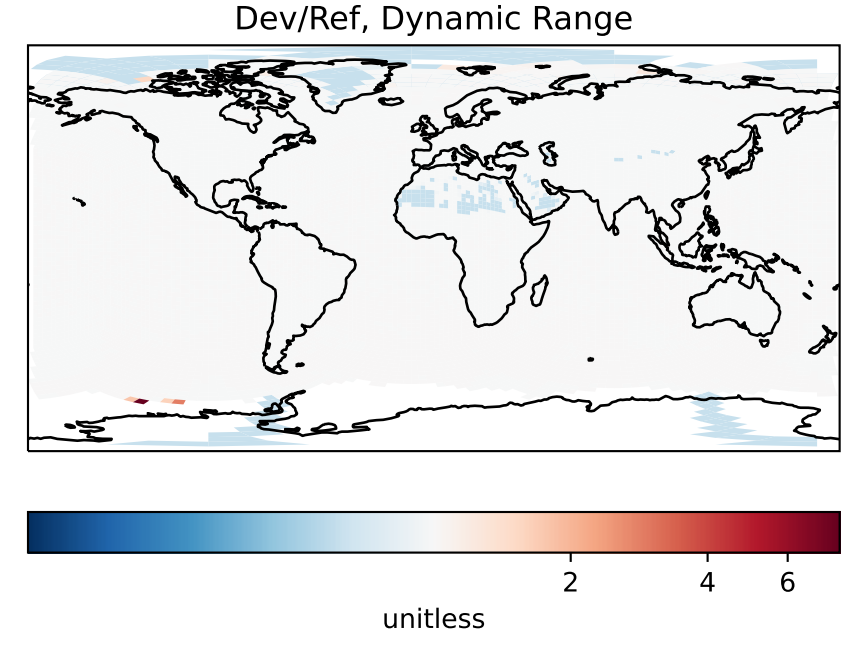
Difference
Dev - Ref, Dynamic Range



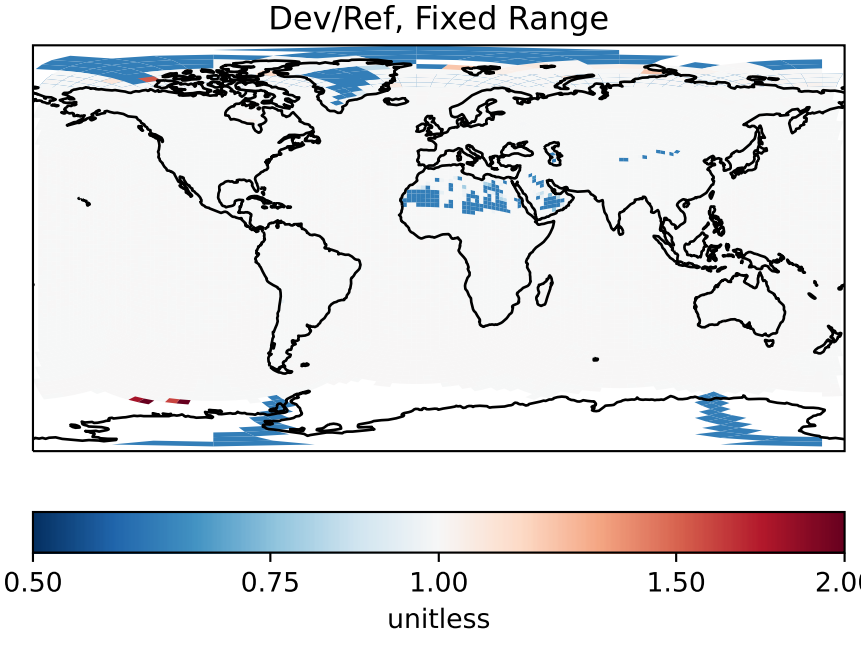
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

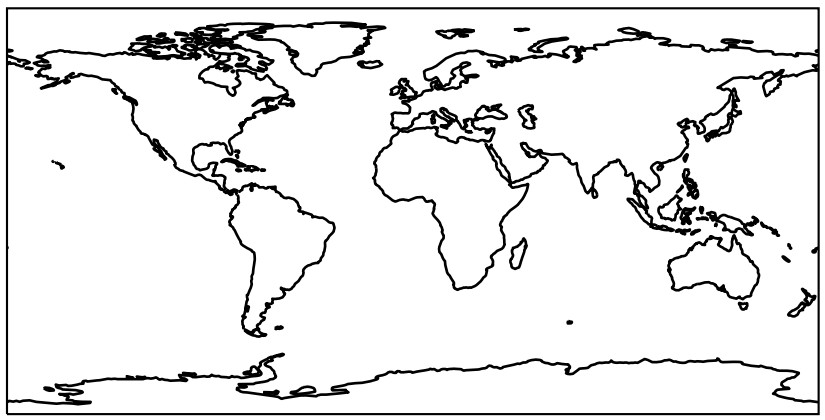


Ratio
Dev/Ref, Fixed Range



EmisHAC_Anthro

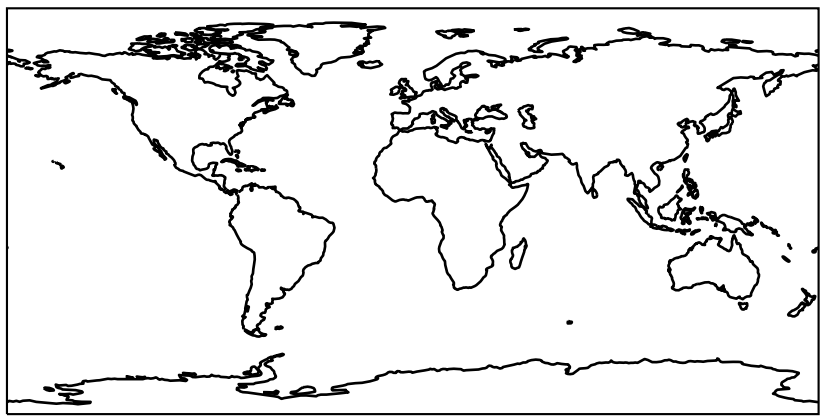
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c48





Zero throughout domain
kg/m2/s

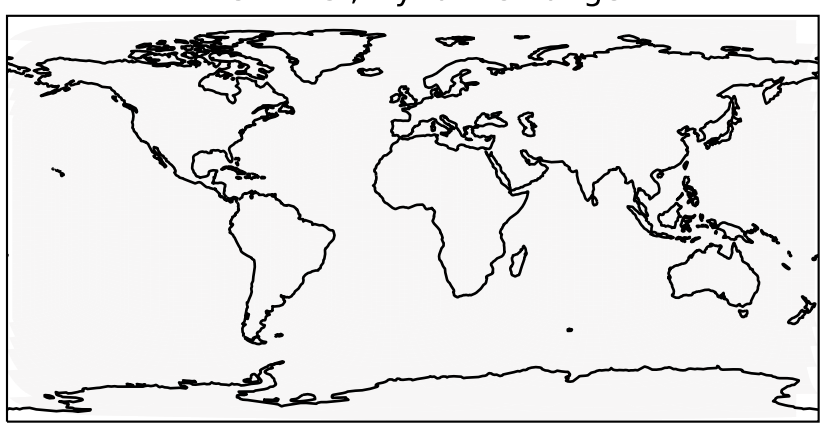
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kg/m2/s

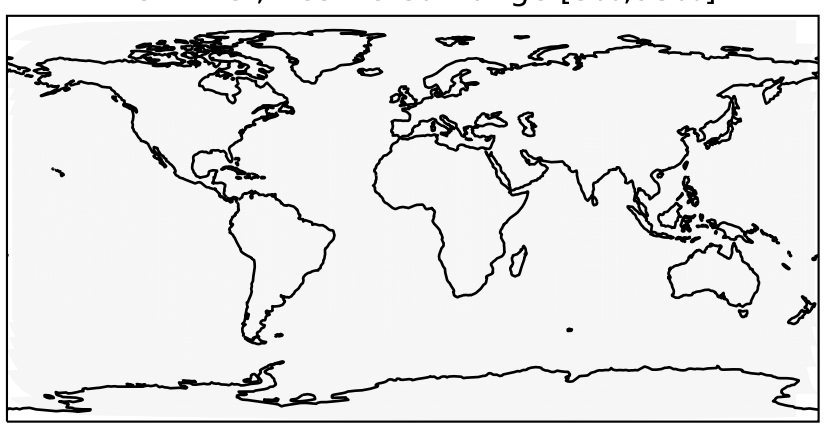
Difference
Dev - Ref, Dynamic Range





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kg/m2/s

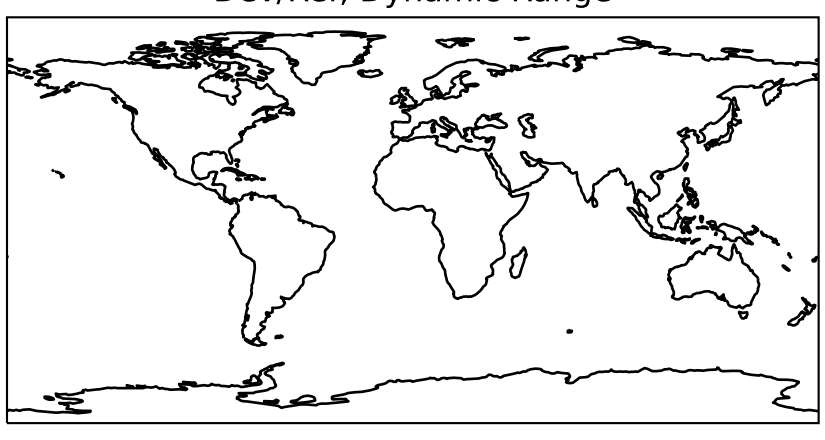
Difference
Dev - Ref, Restricted Range [5%,95%]





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kg/m2/s

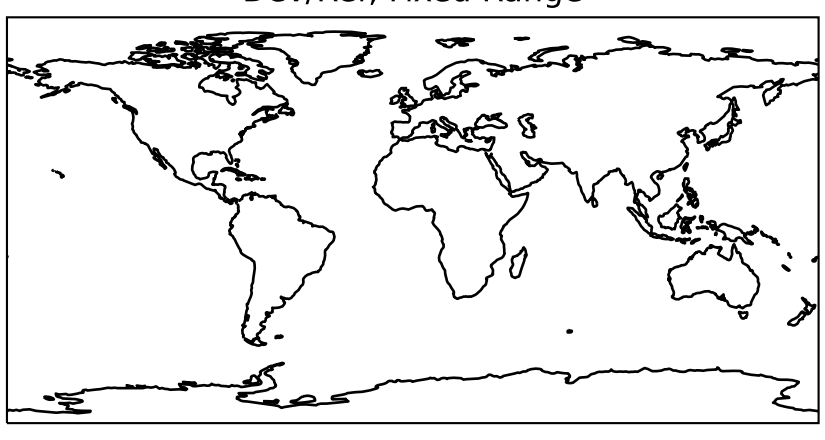
Ratio
Dev/Ref, Dynamic Range





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Ratio
Dev/Ref, Fixed Range

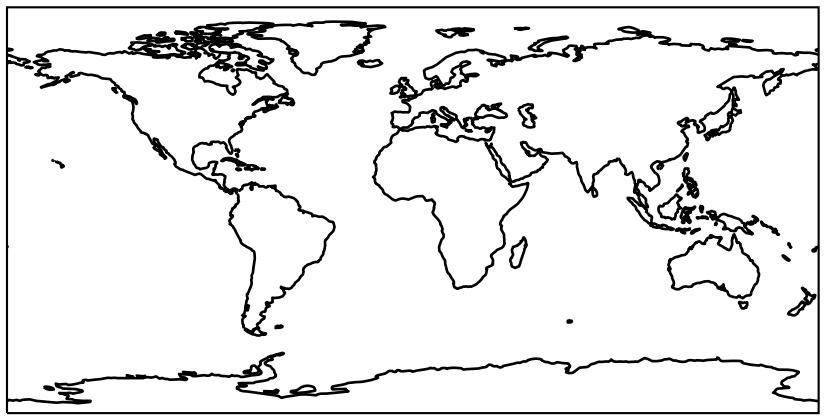




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EmisHAC_Total

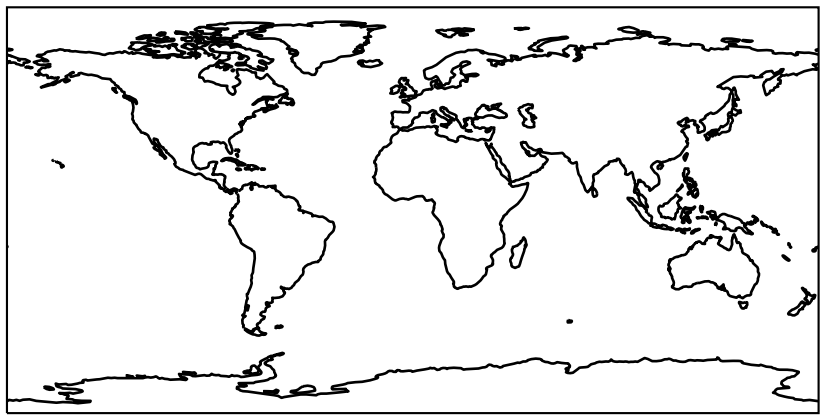
GCHP_13.3.0-rc.1 (Ref)
c48





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kg/m2/s

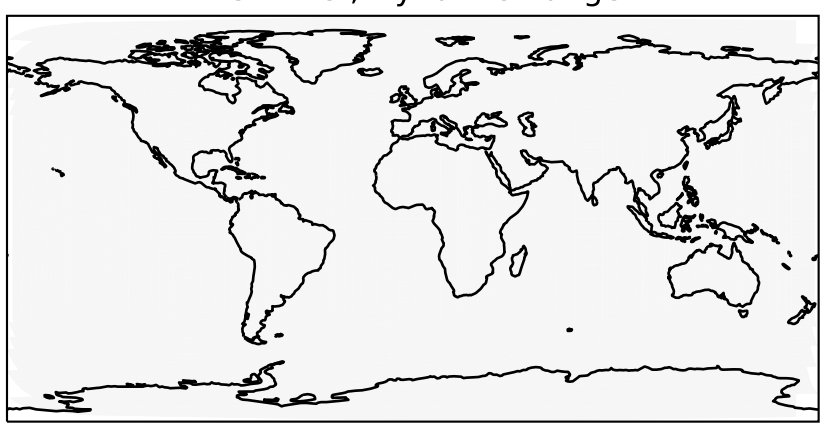
GCHP_13.4.0-rc.2 (Dev)
c48





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kg/m2/s

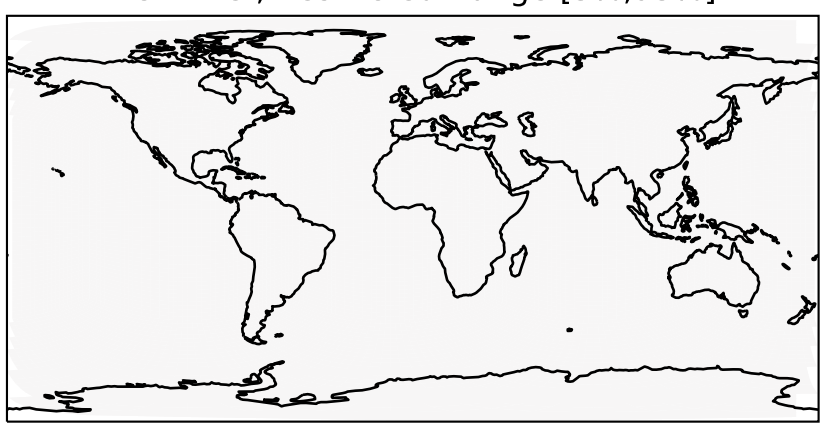
Difference
Dev - Ref, Dynamic Range





Zero throughout domain
kg/m2/s

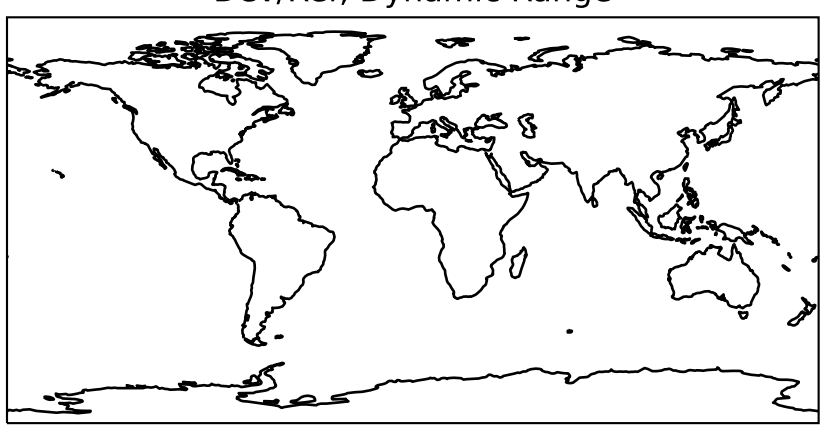
Difference
Dev - Ref, Restricted Range [5%,95%]





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kg/m2/s

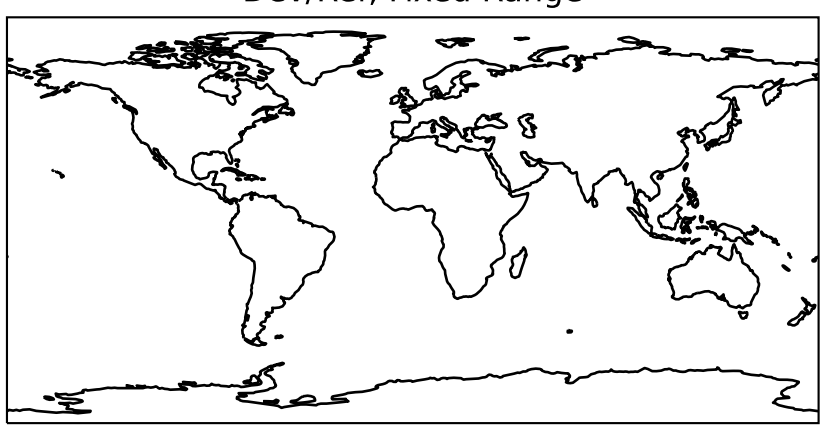
Ratio
Dev/Ref, Dynamic Range





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Ratio
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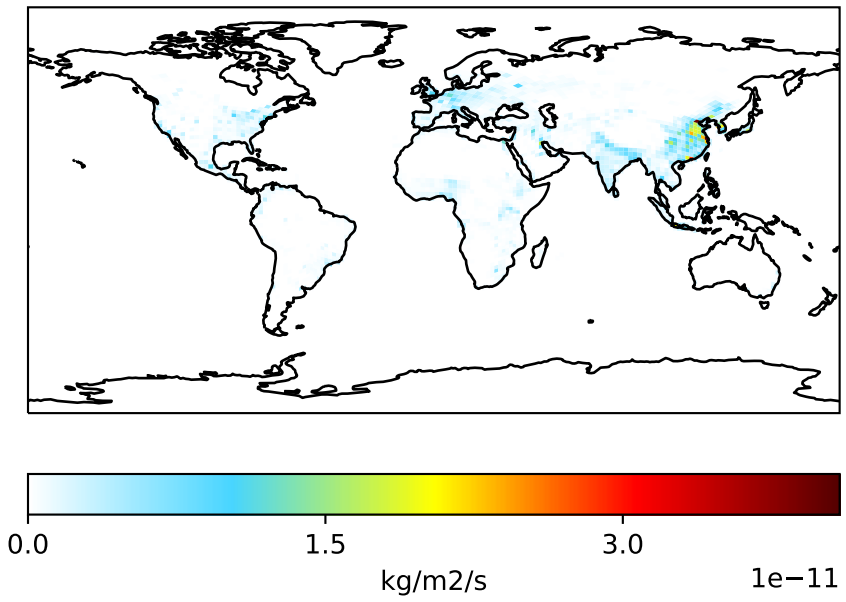




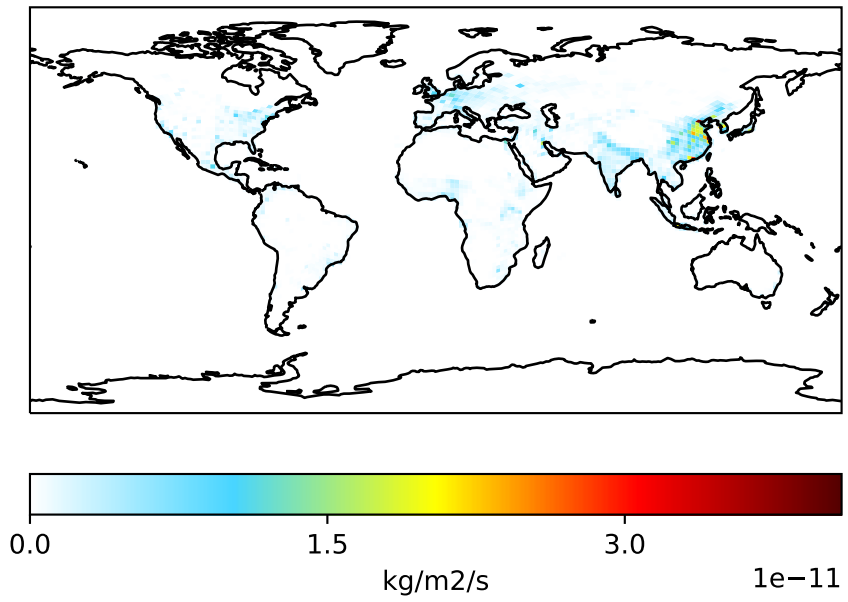
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EmisMEK_Anthro

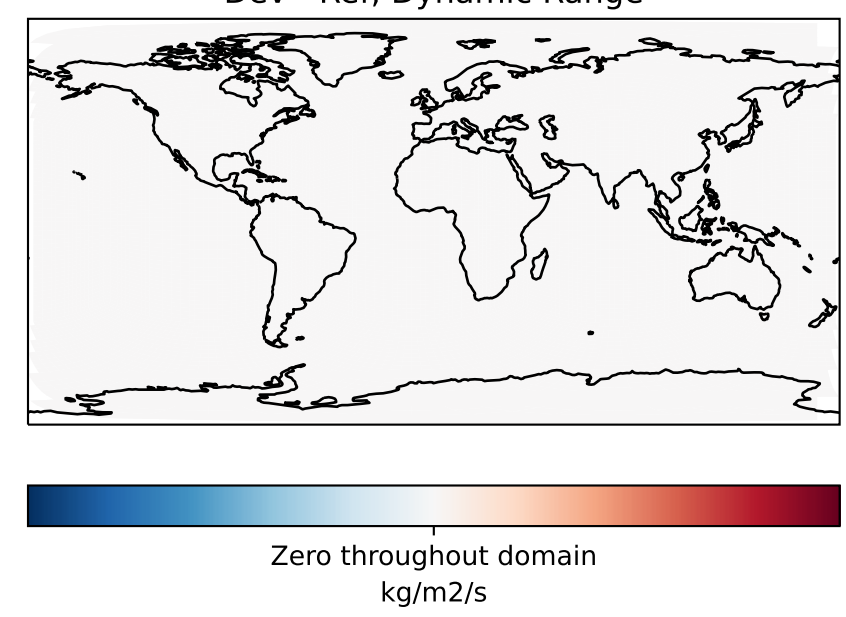
GCHP_13.3.0-rc.1 (Ref)
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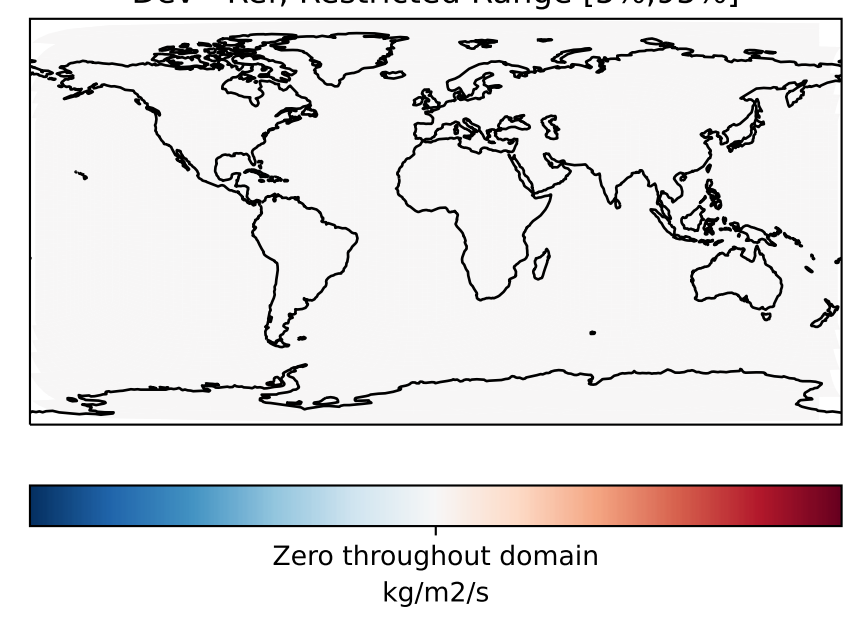
GCHP_13.4.0-rc.2 (Dev)
c48



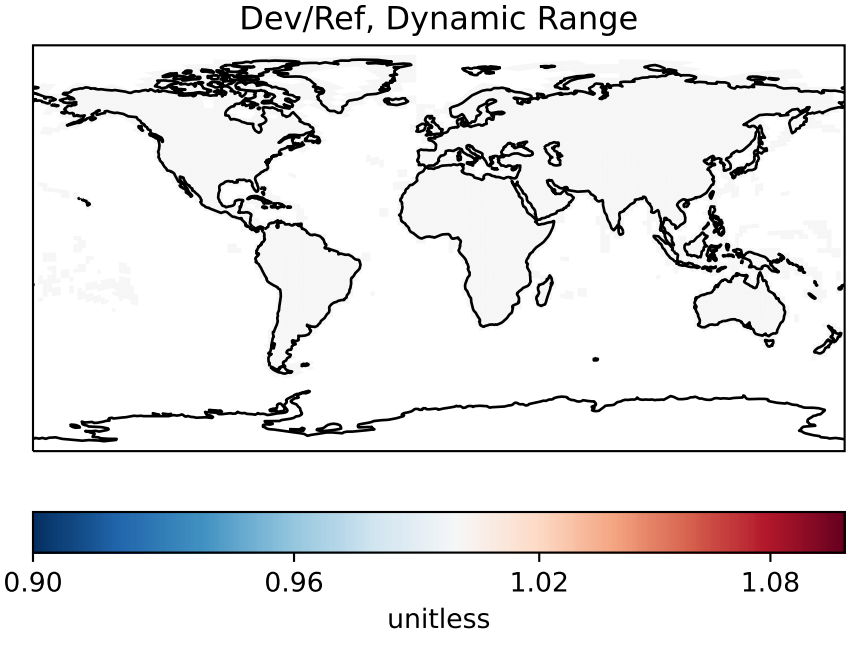
Difference
Dev - Ref, Dynamic Range



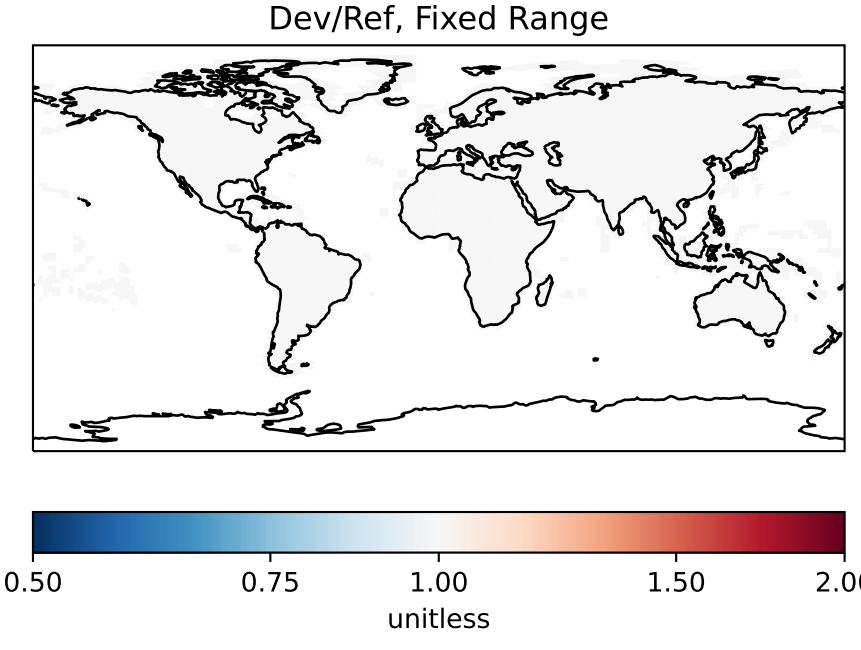
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

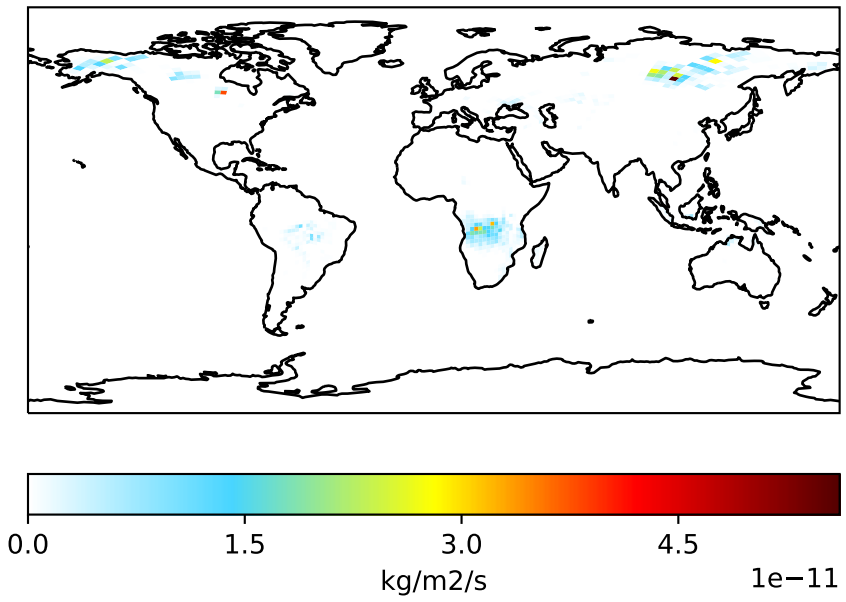


Ratio
Dev/Ref, Fixed Range

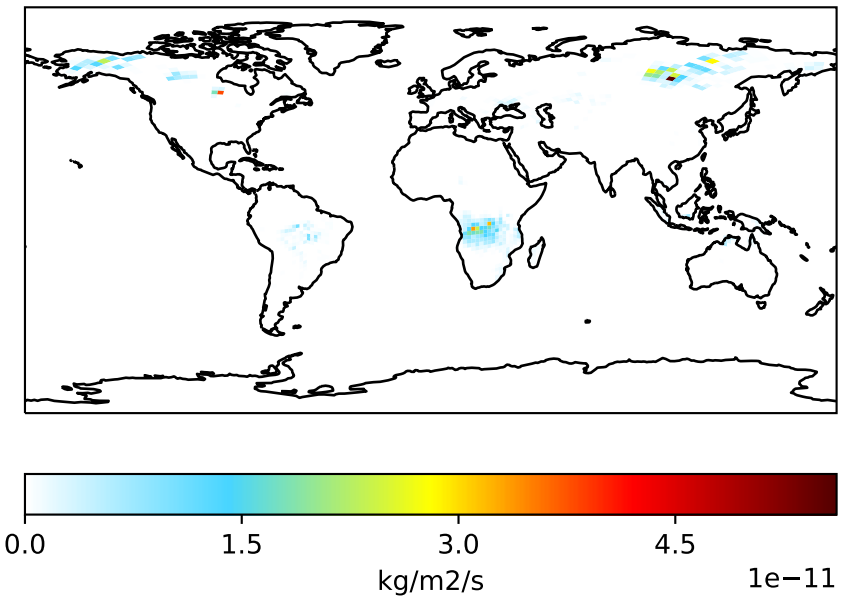


EmisMEK_BioBurn

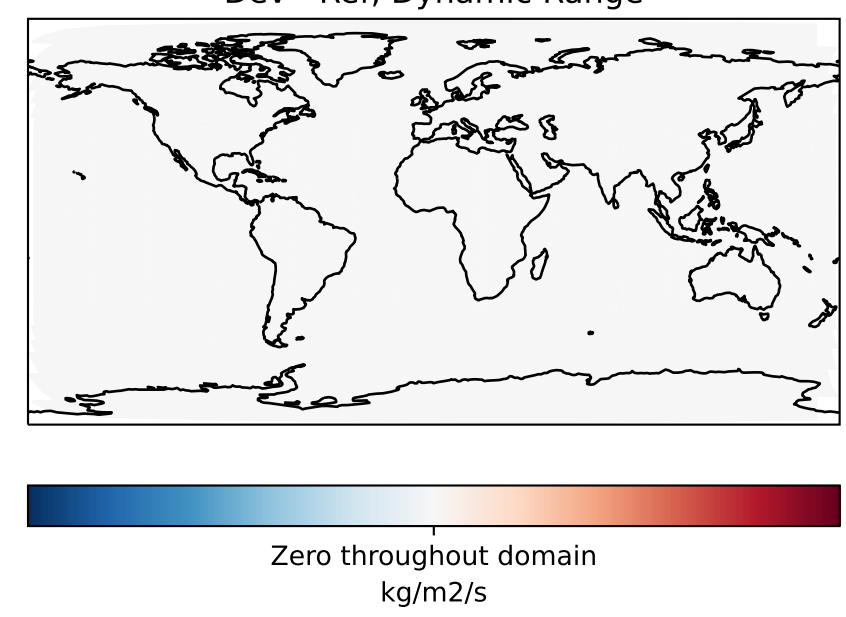
GCHP_13.3.0-rc.1 (Ref)
c48



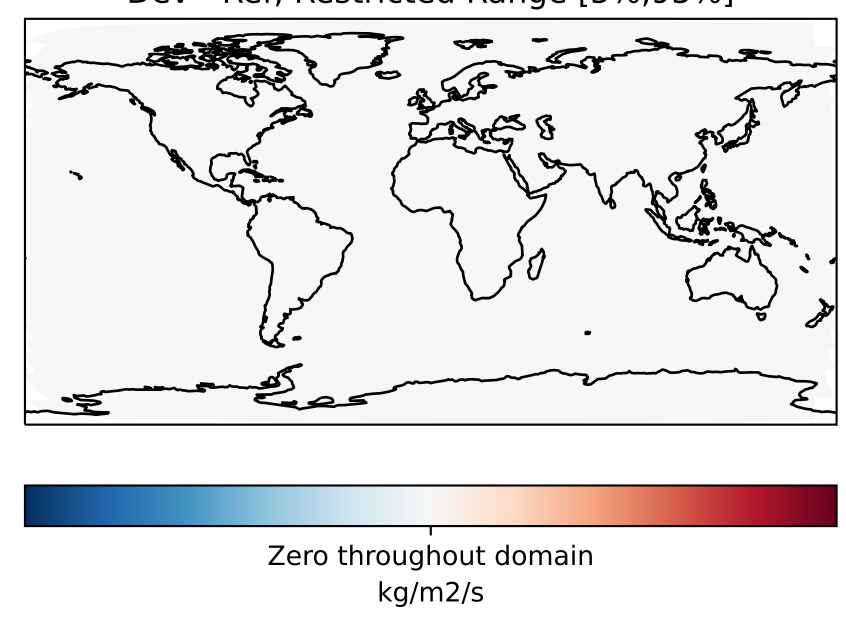
GCHP_13.4.0-rc.2 (Dev)
c48



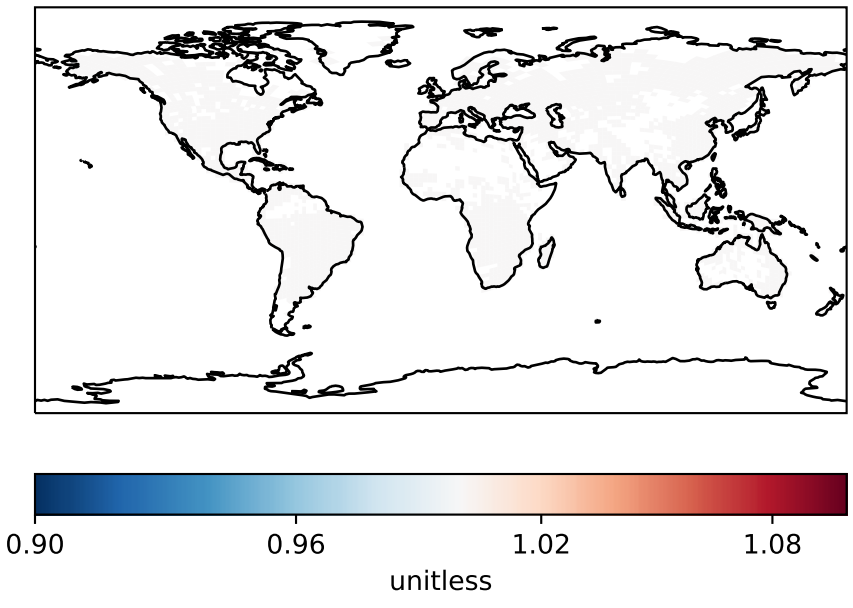
Difference
Dev - Ref, Dynamic Range



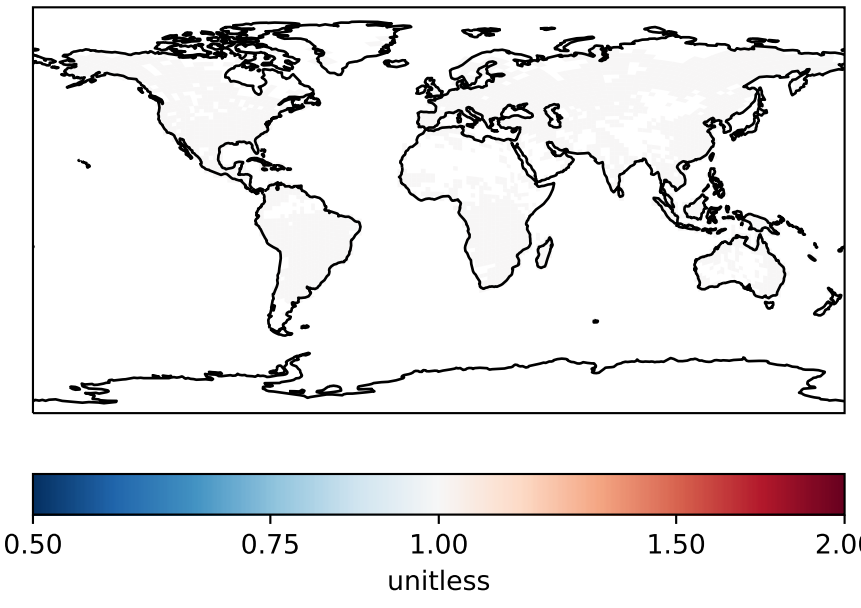
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

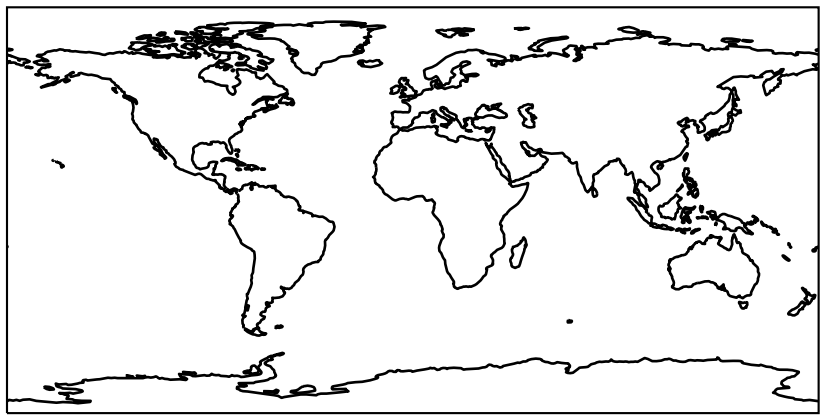


Ratio
Dev/Ref, Fixed Range



EmisMEK_Ship

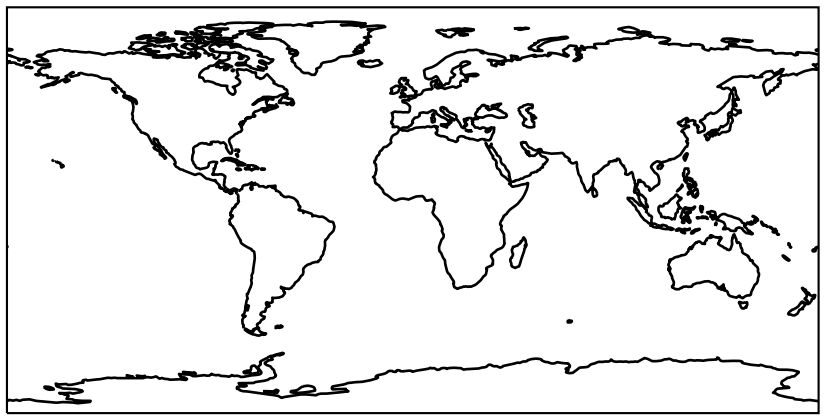
GCHP_13.3.0-rc.1 (Ref)
c48





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kg/m2/s

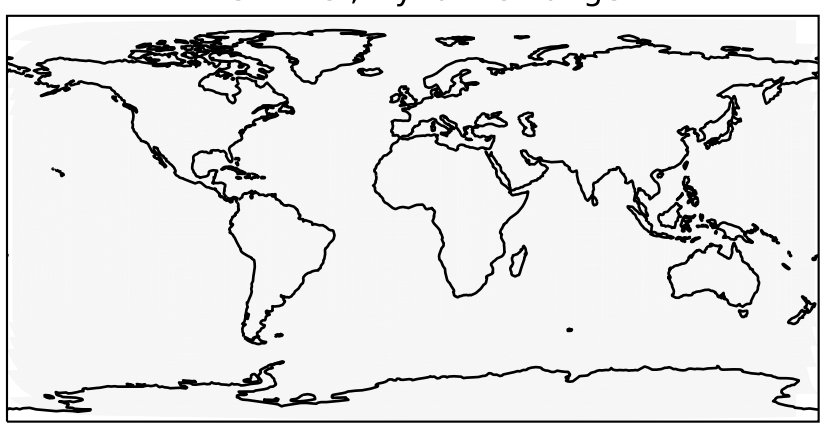
GCHP_13.4.0-rc.2 (Dev)
c48





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kg/m2/s

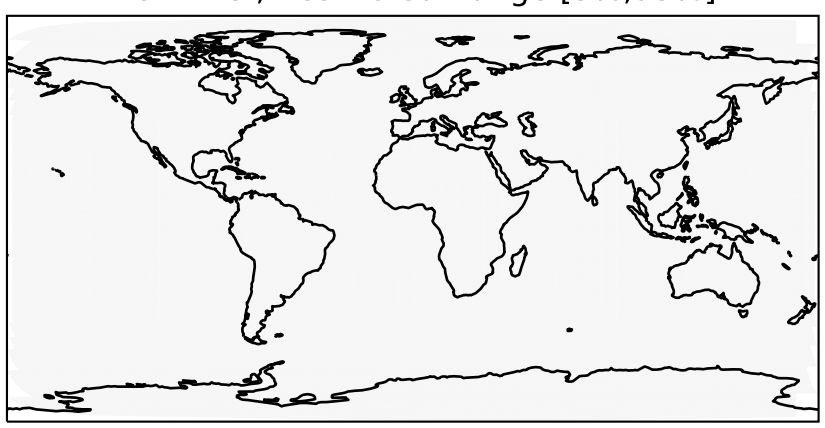
Difference
Dev - Ref, Dynamic Range





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kg/m2/s

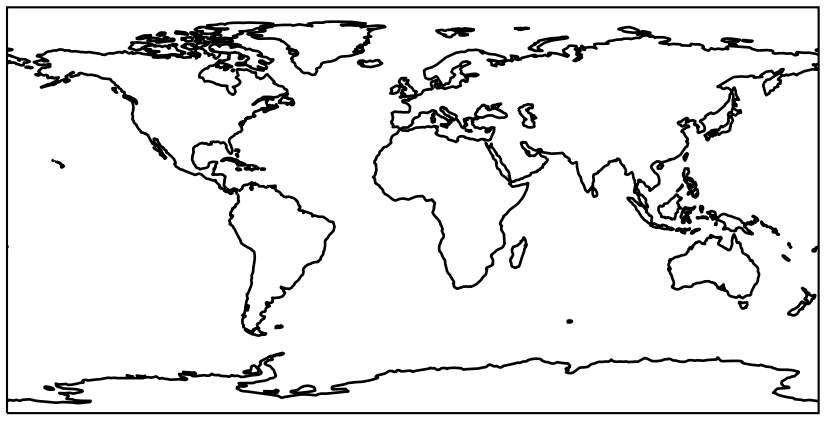
Difference
Dev - Ref, Restricted Range [5%,95%]





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kg/m2/s

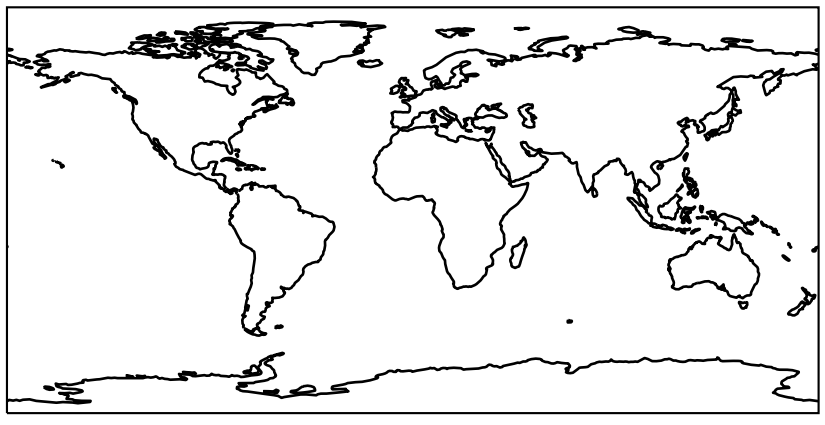
Ratio
Dev/Ref, Dynamic Range





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Ratio
Dev/Ref, Fixed Range

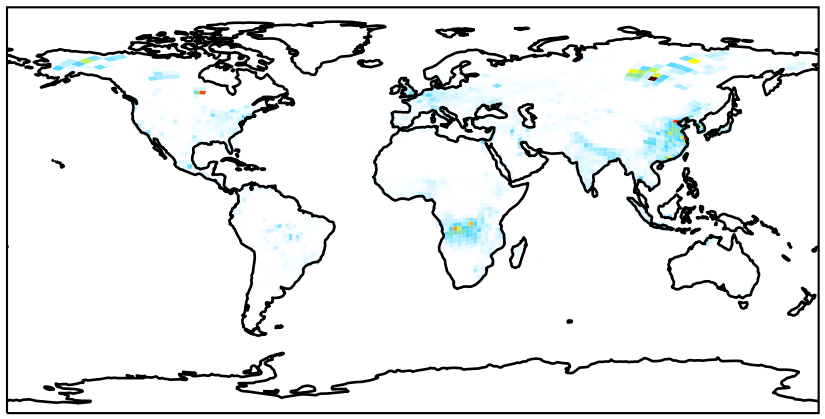


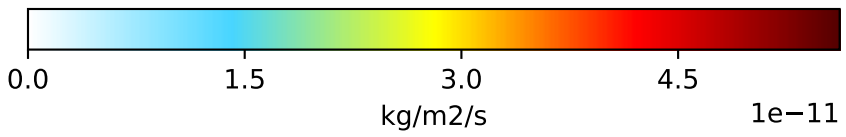


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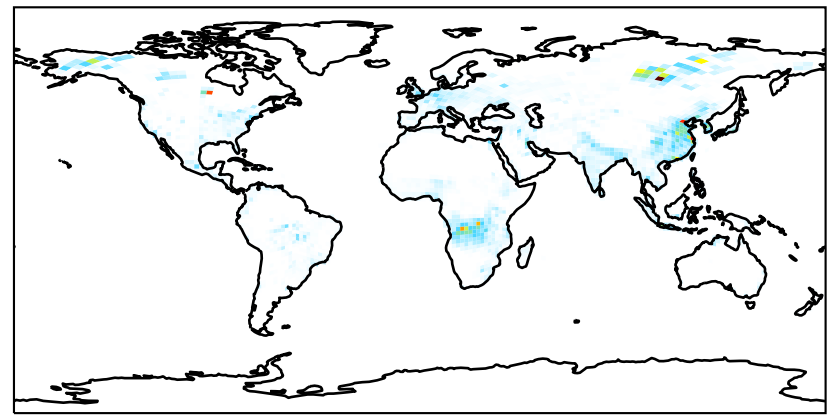
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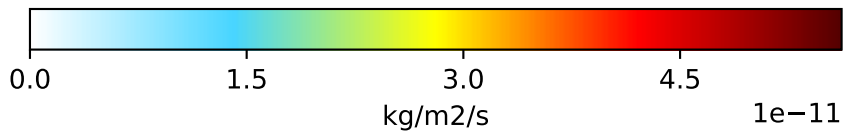
GCHP_13.3.0-rc.1 (Ref)
c48



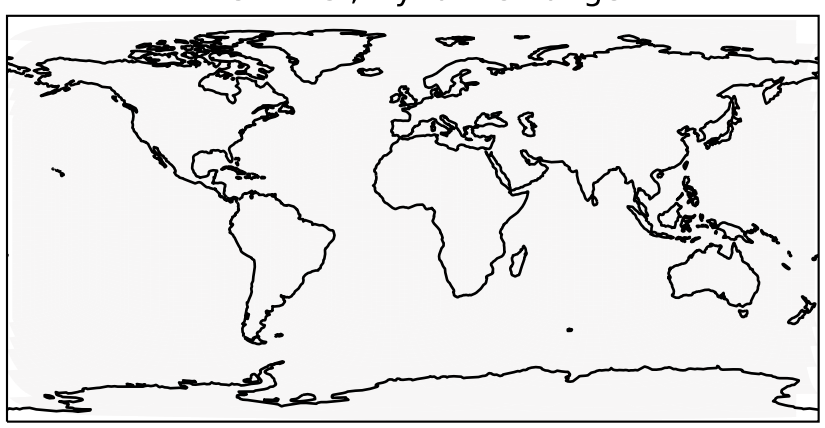


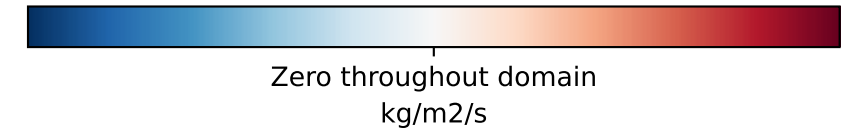
GCHP_13.4.0-rc.2 (Dev)
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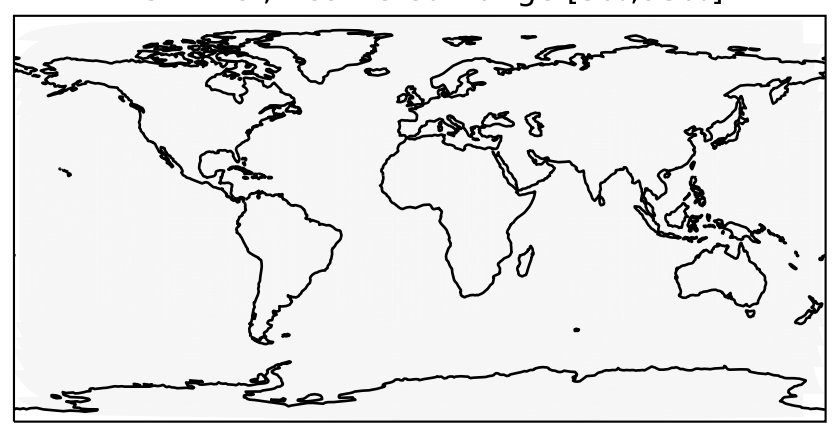


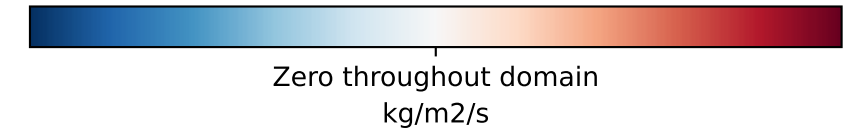
Difference
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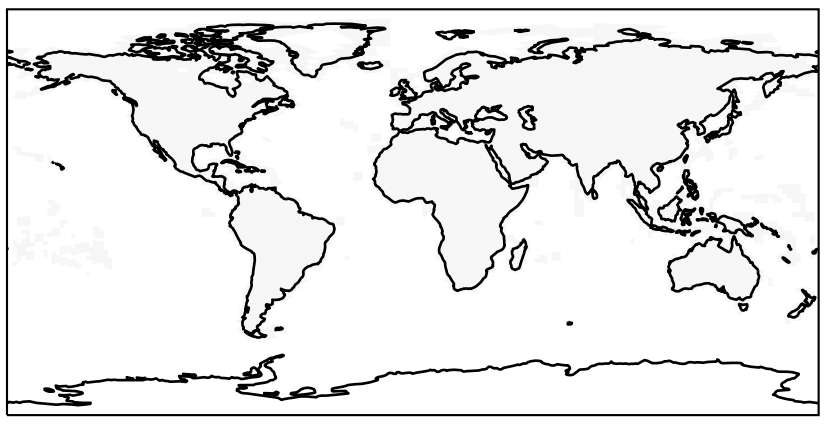


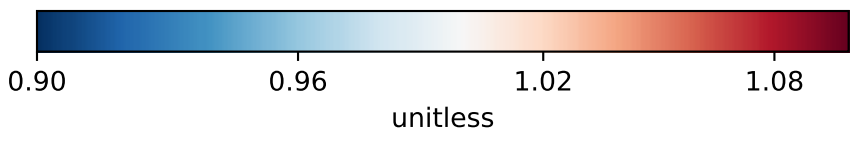
Difference
Dev - Ref, Restricted Range [5%,95%]



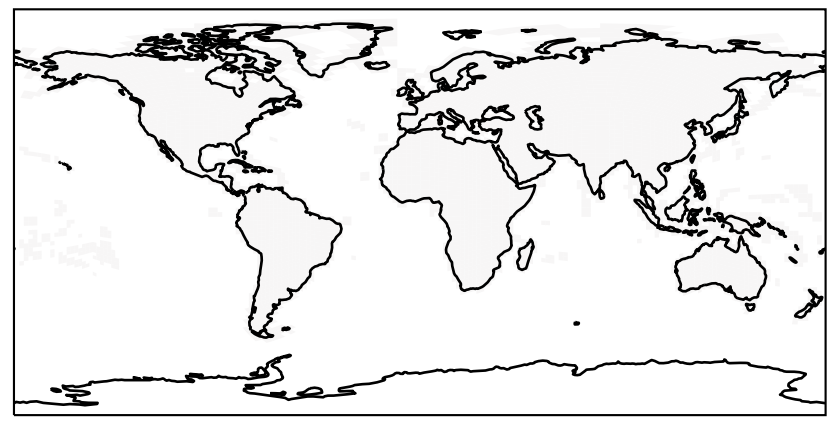


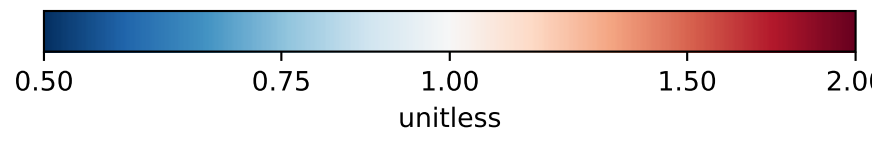
Ratio
Dev/Ref, Dynamic Range





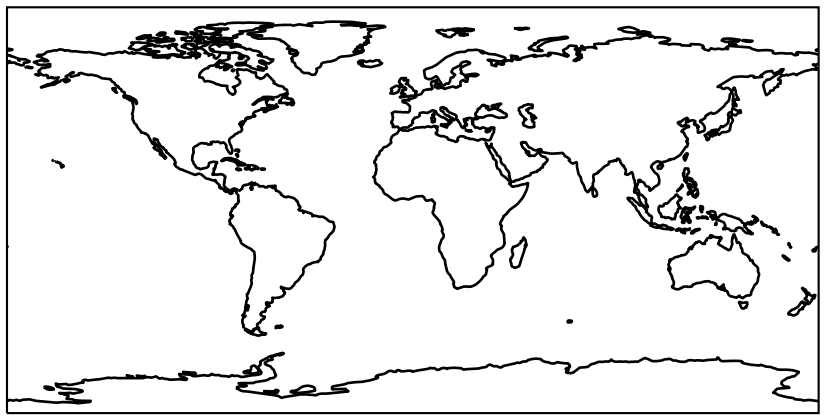
Ratio
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EmisMVK_Anthro

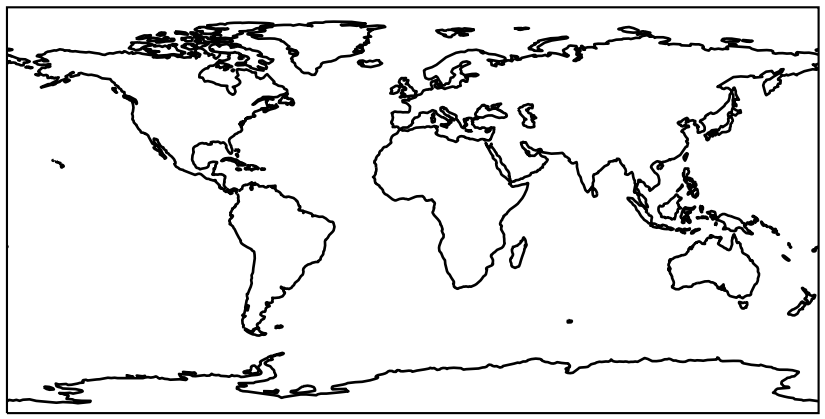
GCHP_13.3.0-rc.1 (Ref)
c48





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kg/m2/s

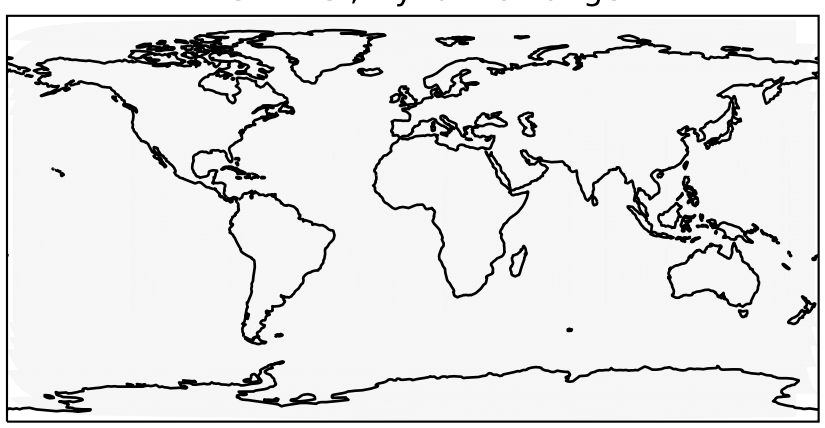
GCHP_13.4.0-rc.2 (Dev)
c48





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kg/m2/s

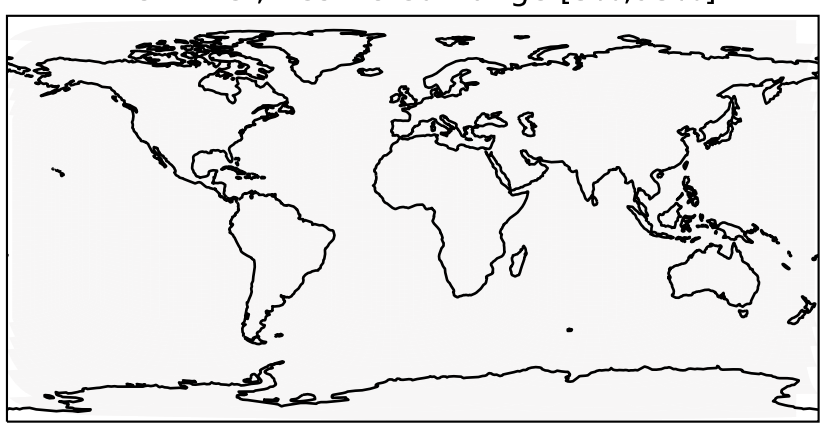
Difference
Dev - Ref, Dynamic Range





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kg/m2/s

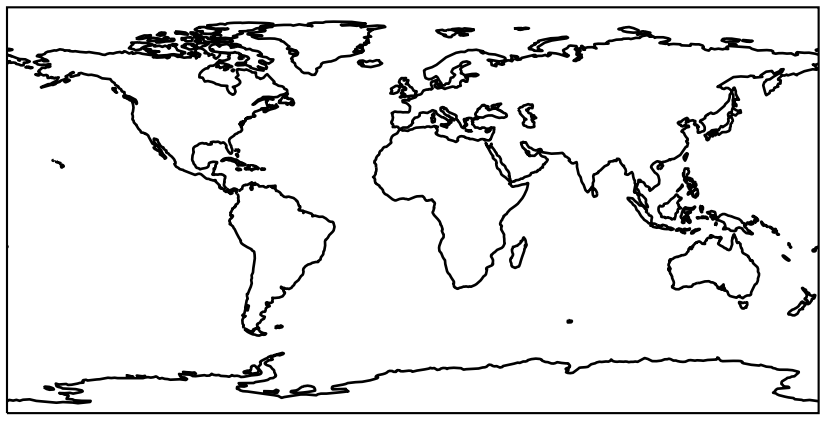
Difference
Dev - Ref, Restricted Range [5%,95%]





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kg/m2/s

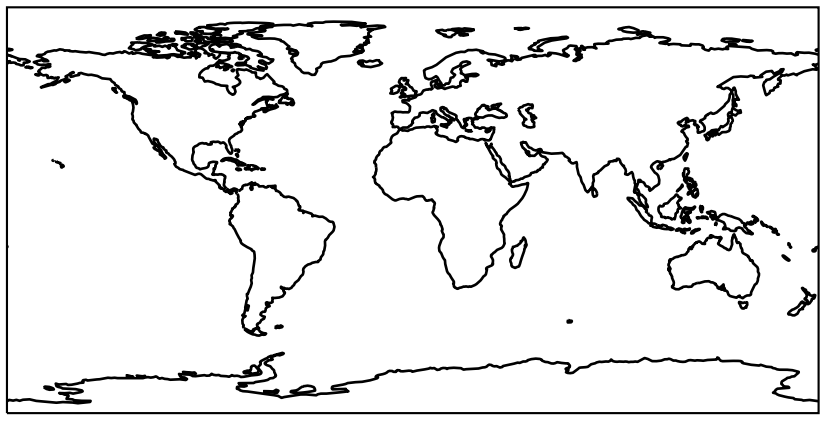
Ratio
Dev/Ref, Dynamic Range





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Ratio
Dev/Ref, Fixed Range

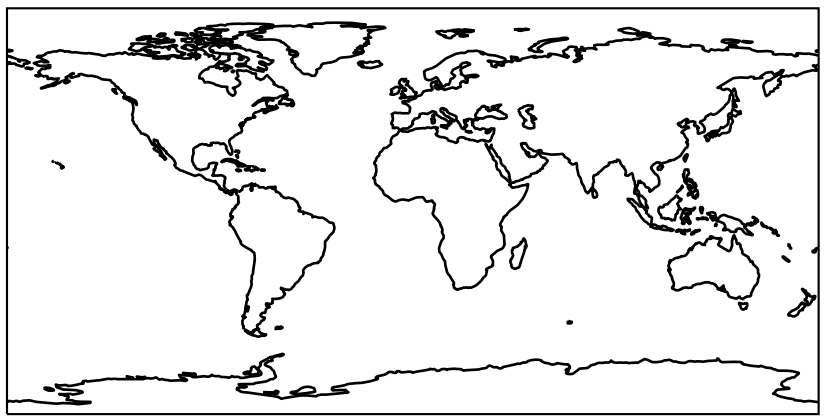




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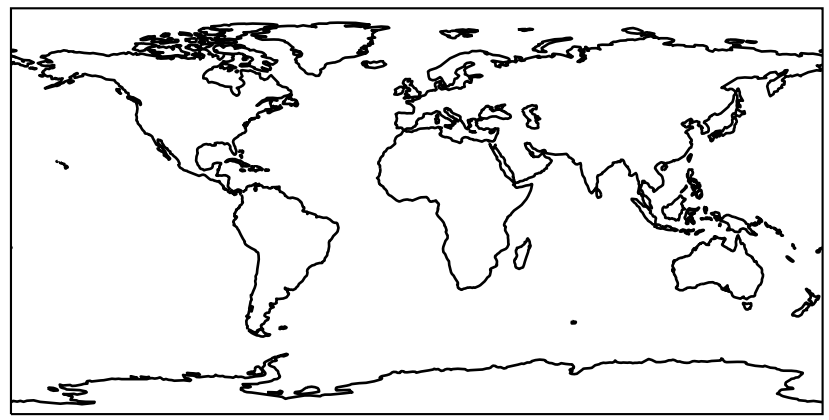
EmisGLYC_Anthro

GCHP_13.3.0-rc.1 (Ref)
c48



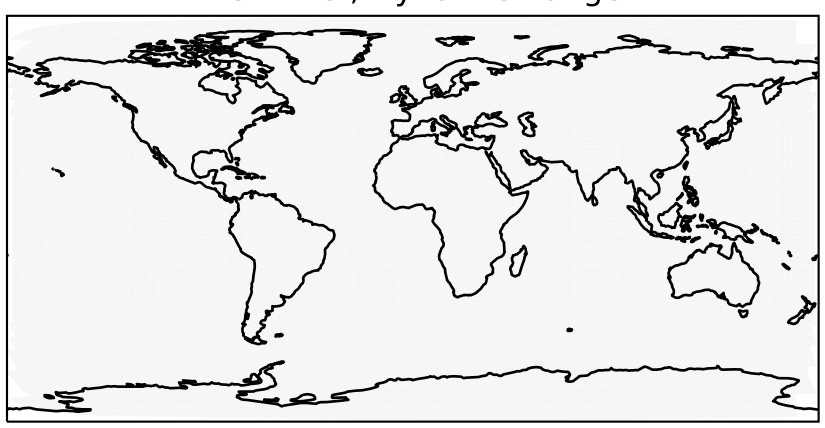
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kg/m2/s

GCHP_13.4.0-rc.2 (Dev)
c48



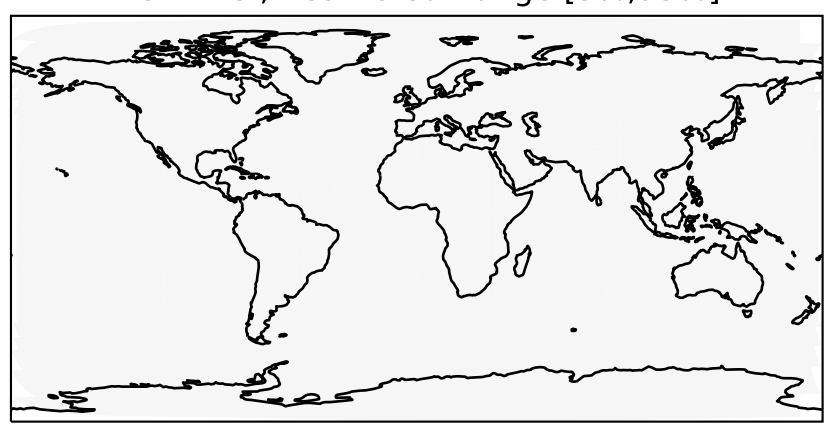
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kg/m2/s

Difference
Dev - Ref, Dynamic Range



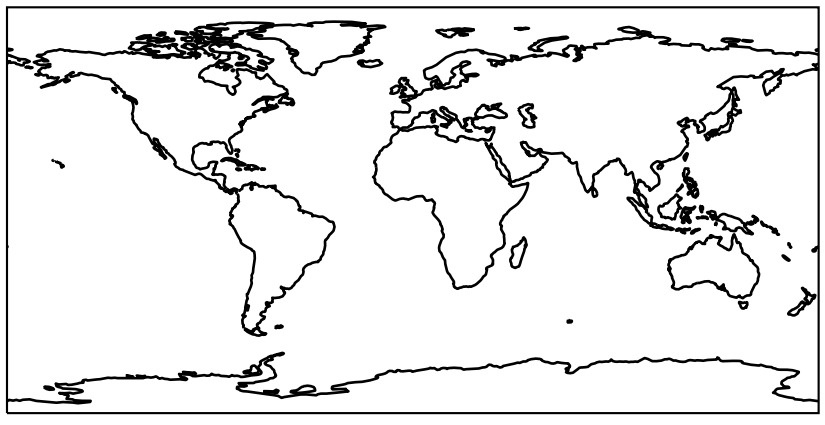
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kg/m2/s

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



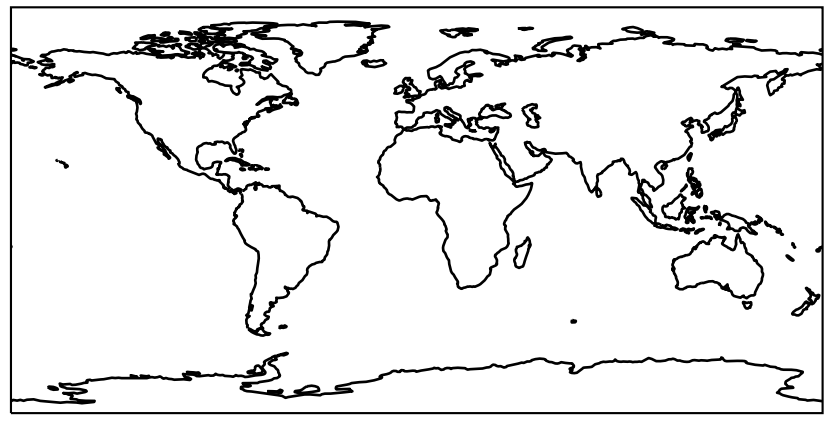
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Ratio
Dev/Ref, Dynamic Range



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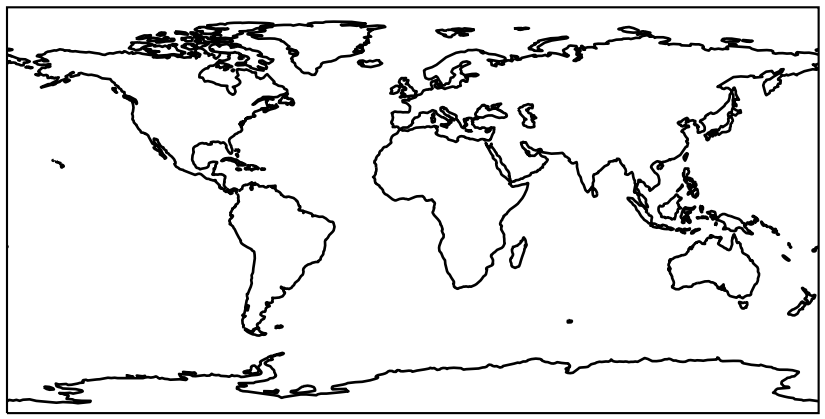
Ratio
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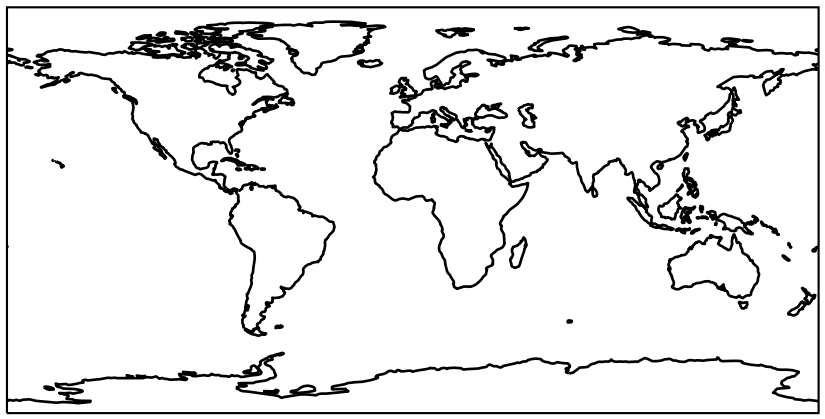
EmisGLYC_Total

GCHP_13.3.0-rc.1 (Ref)
c48



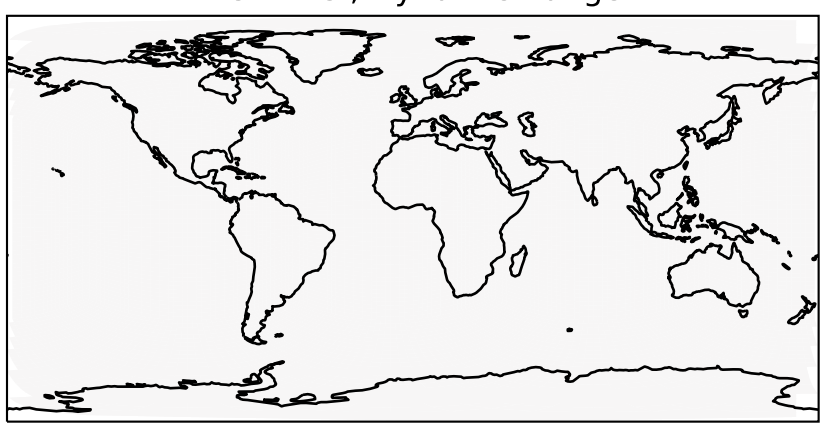
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kg/m2/s

GCHP_13.4.0-rc.2 (Dev)
c48



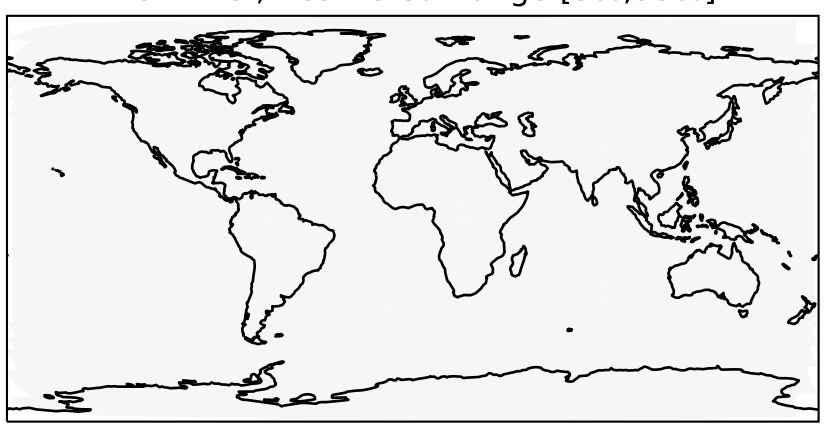
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kg/m2/s

Difference
Dev - Ref, Dynamic Range



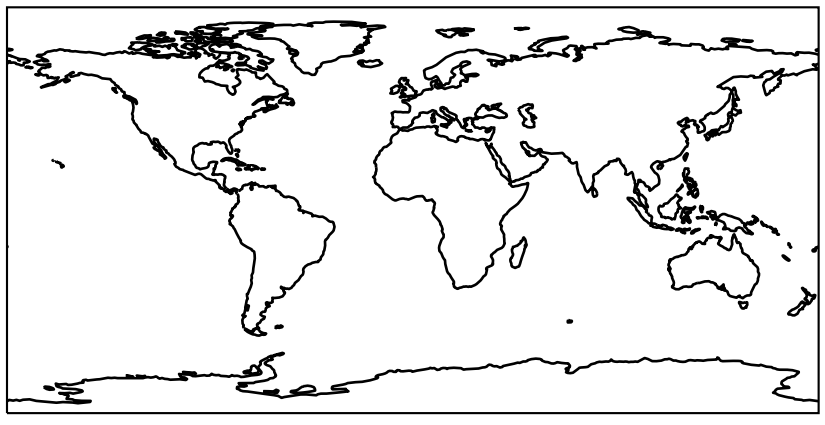
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kg/m2/s

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



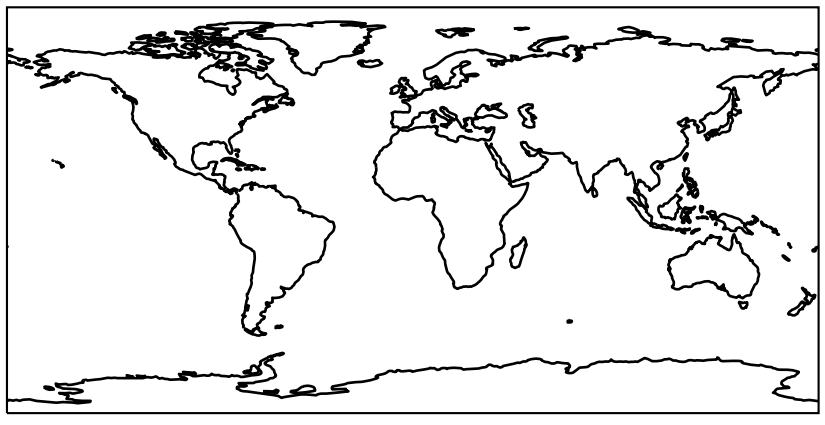
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kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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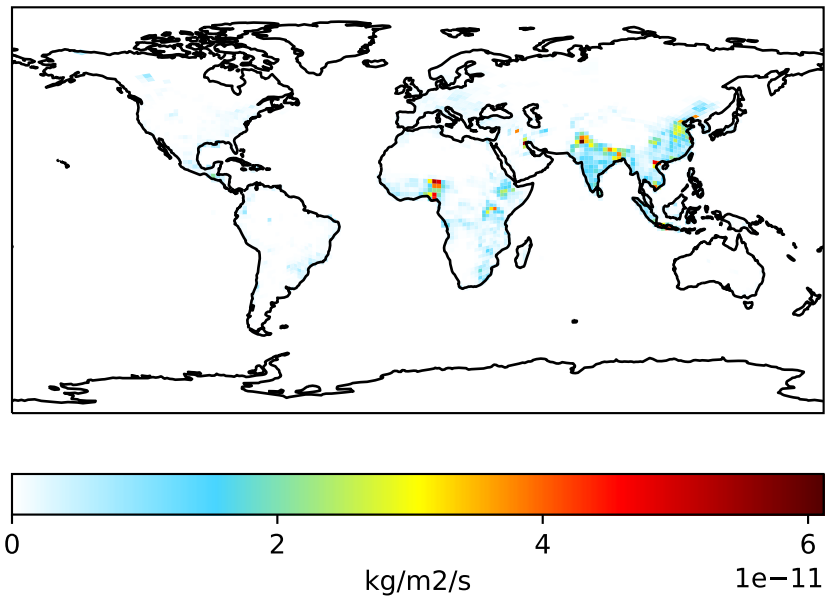
Ratio
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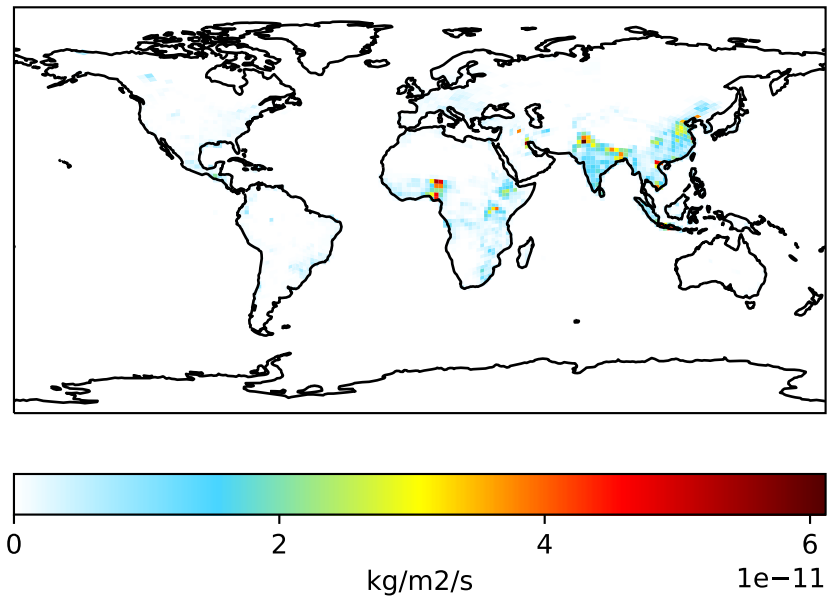
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EmisHCOOH_Anthro

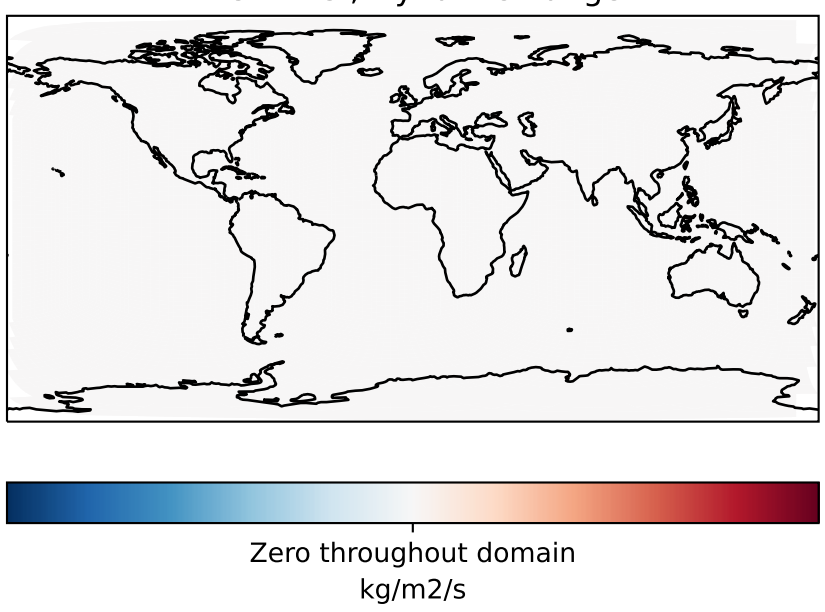
GCHP_13.3.0-rc.1 (Ref)
c48



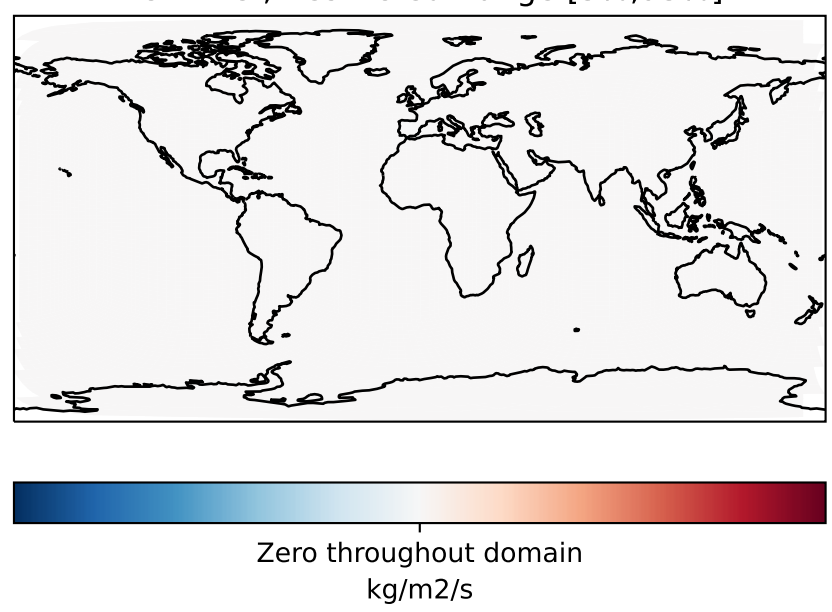
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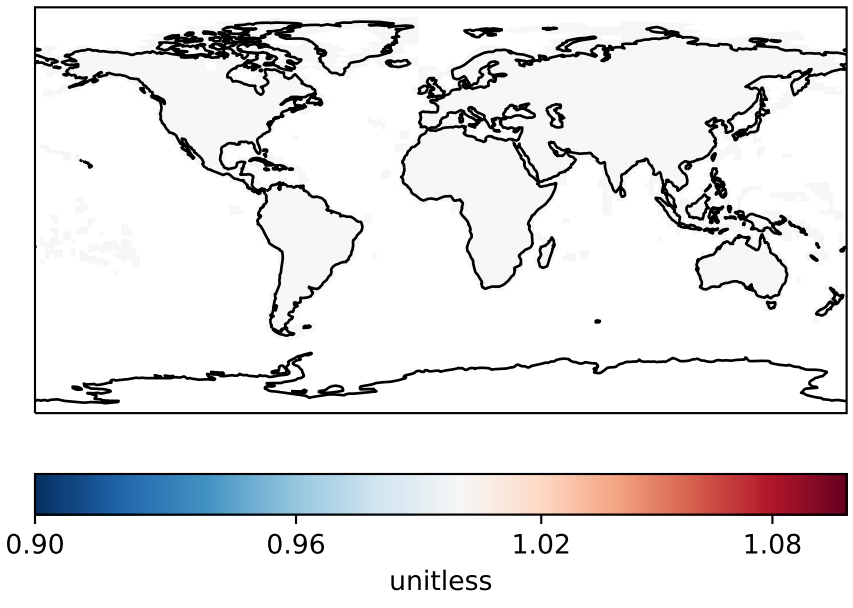
Difference
Dev - Ref, Dynamic Range



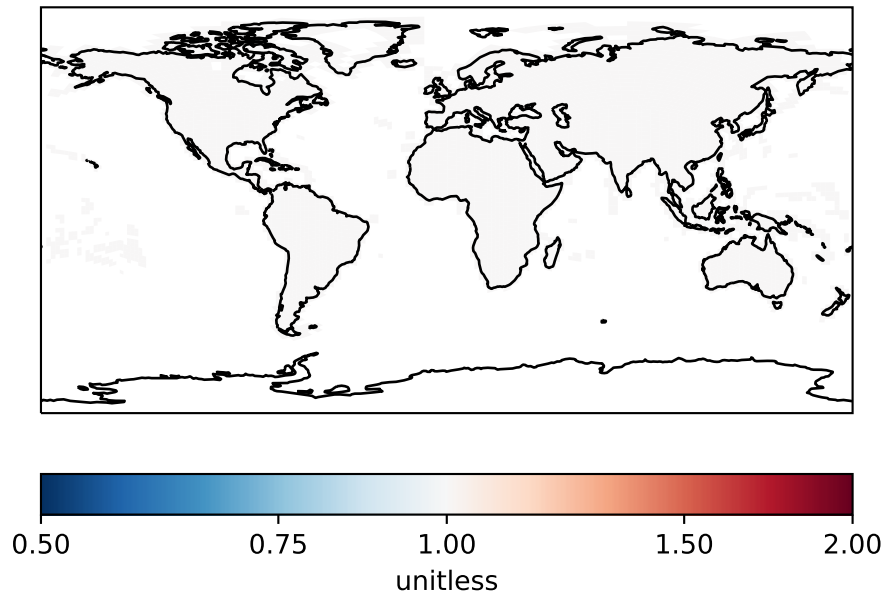
Difference
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Ratio
Dev/Ref, Dynamic Range

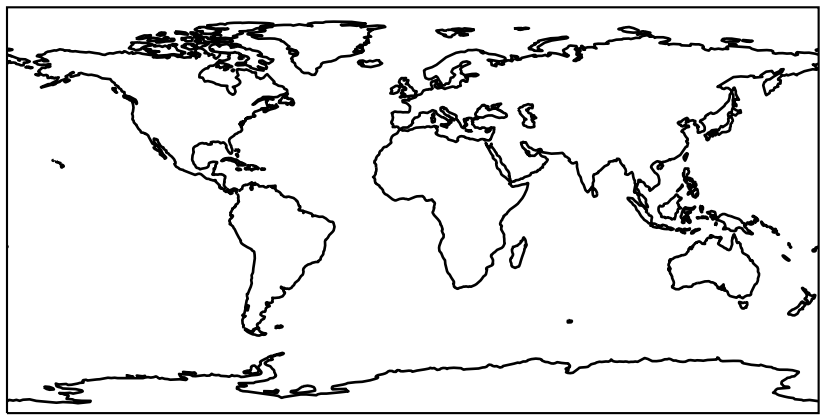


Ratio
Dev/Ref, Fixed Range



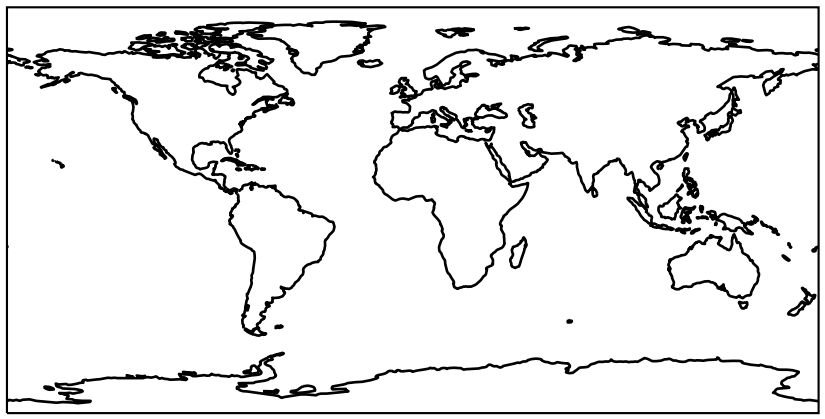
EmisHCOOH_Ship

GCHP_13.3.0-rc.1 (Ref)
c48



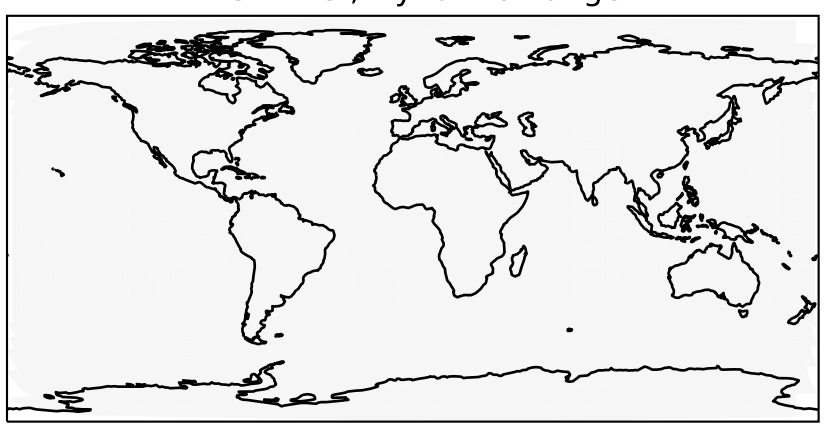
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kg/m2/s

GCHP_13.4.0-rc.2 (Dev)
c48



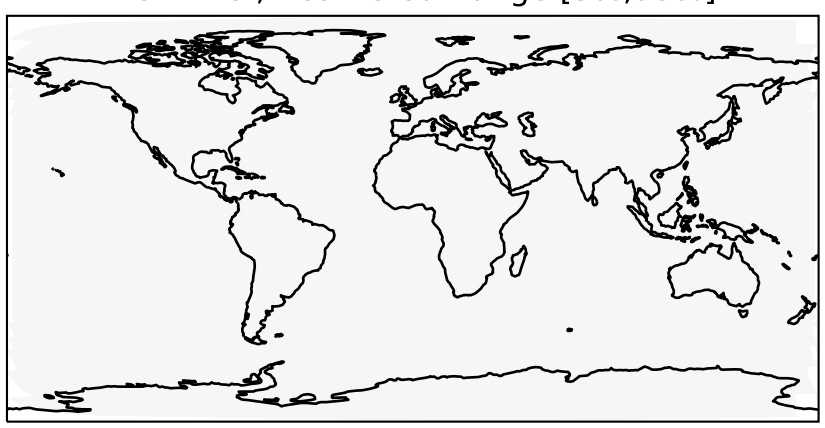
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kg/m2/s

Difference
Dev - Ref, Dynamic Range



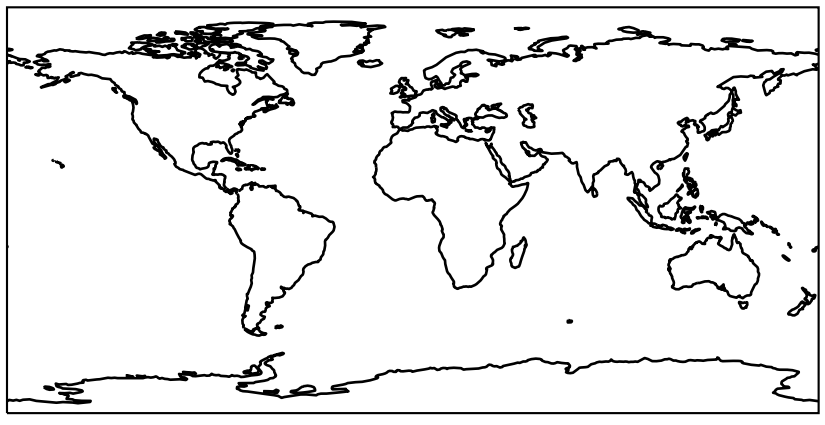
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kg/m2/s

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



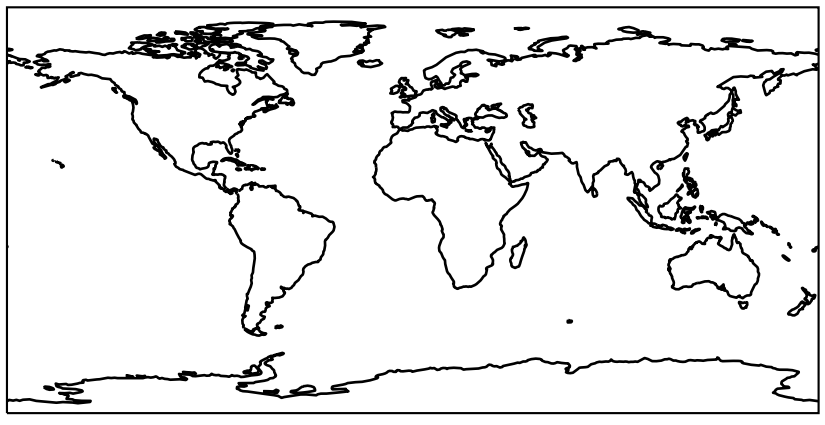
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kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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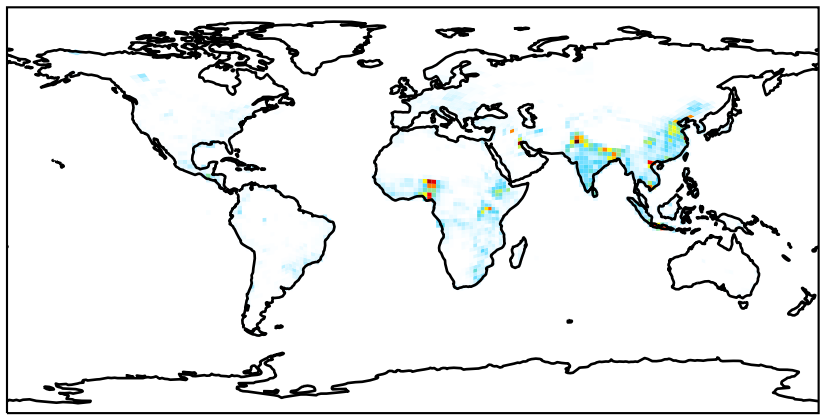
Ratio
Dev/Ref, Fixed Range

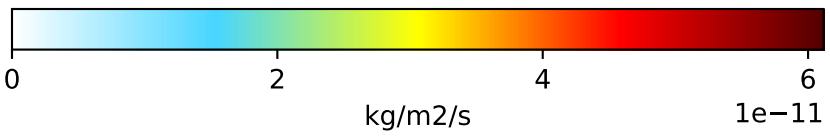


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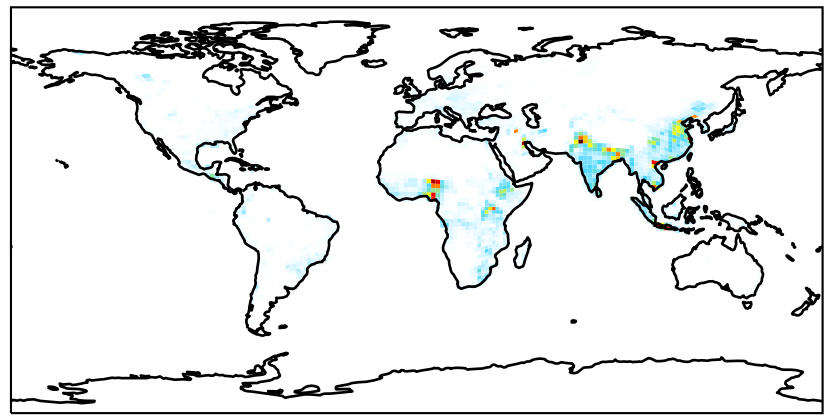
EmisHCOOH_Total

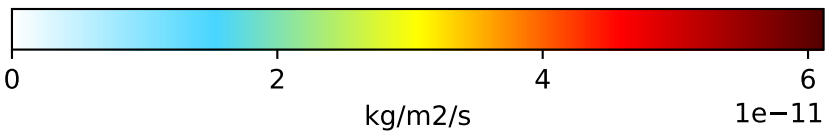
GCHP_13.3.0-rc.1 (Ref)
c48



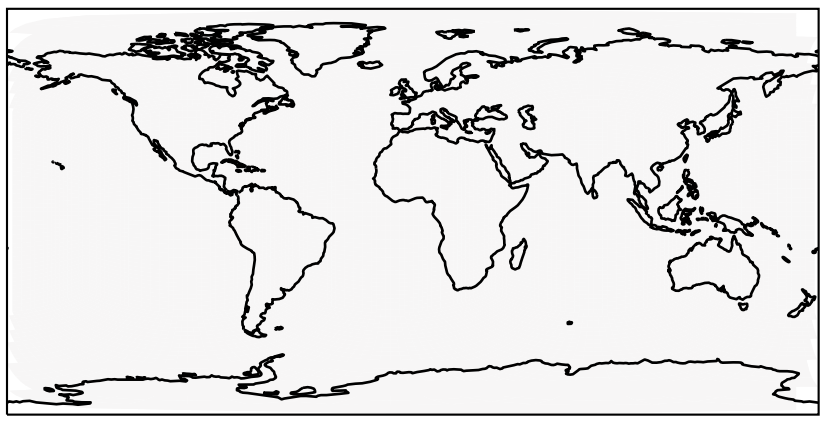


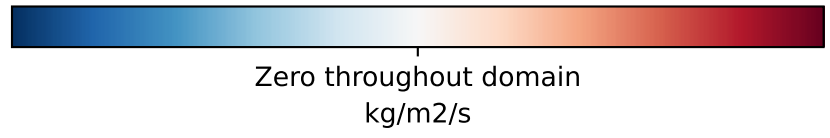
GCHP_13.4.0-rc.2 (Dev)
c48



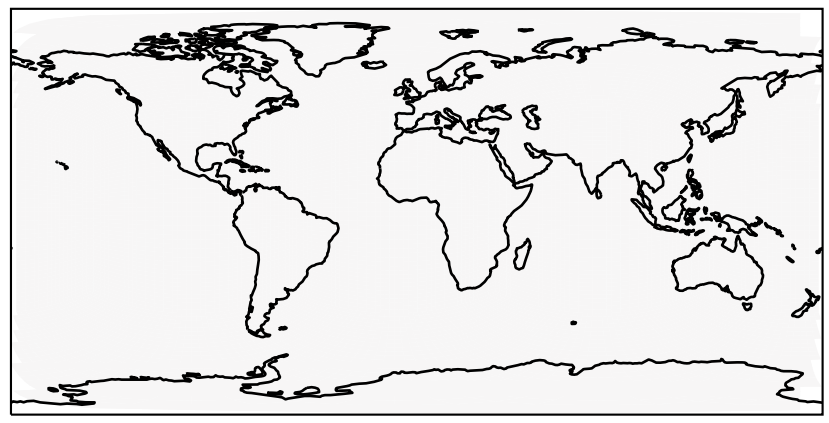


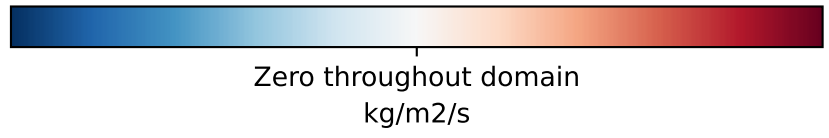
Difference
Dev - Ref, Dynamic Range



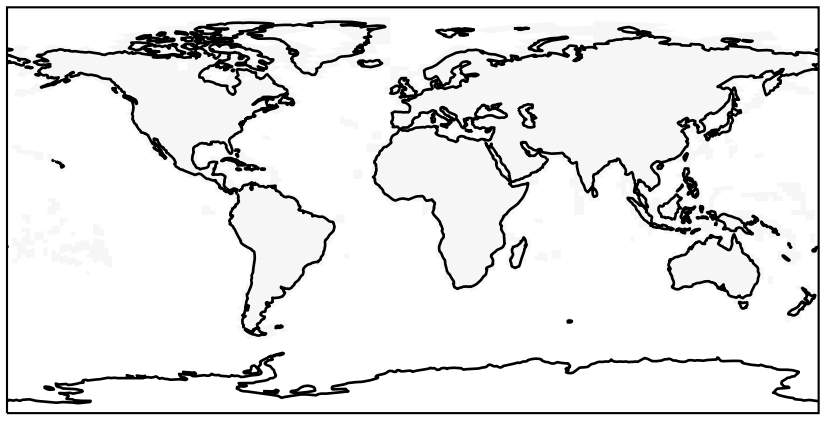


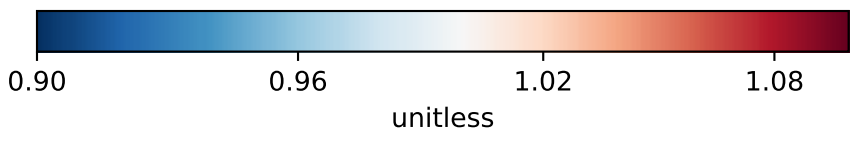
Difference
Dev - Ref, Restricted Range [5%,95%]



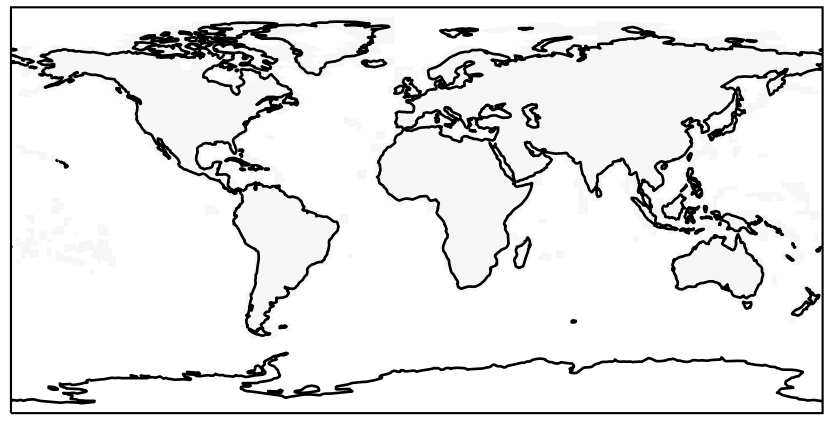


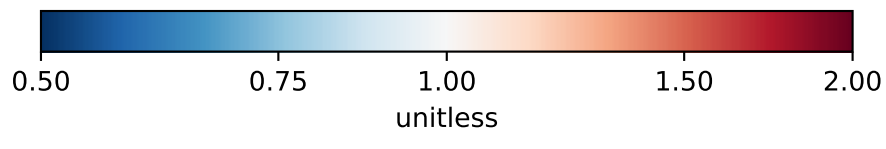
Ratio
Dev/Ref, Dynamic Range





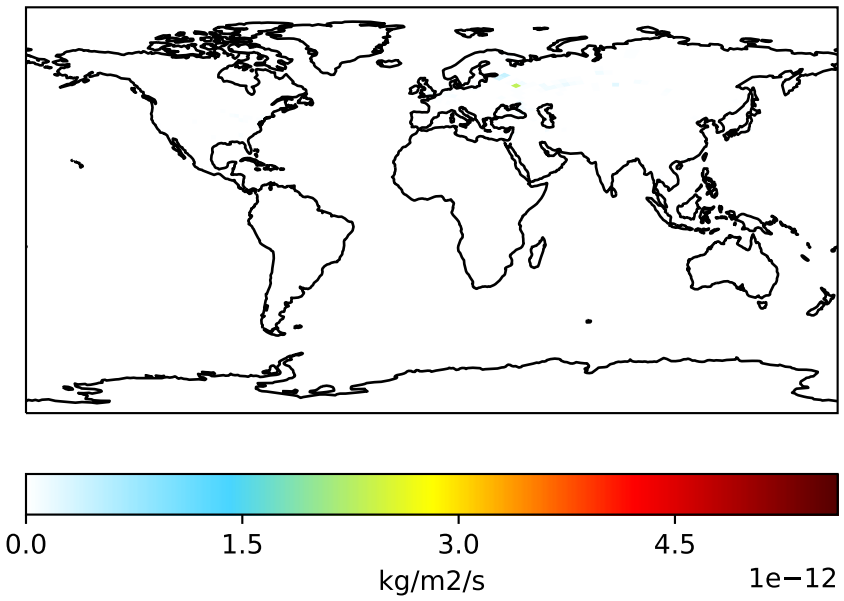
Ratio
Dev/Ref, Fixed Range



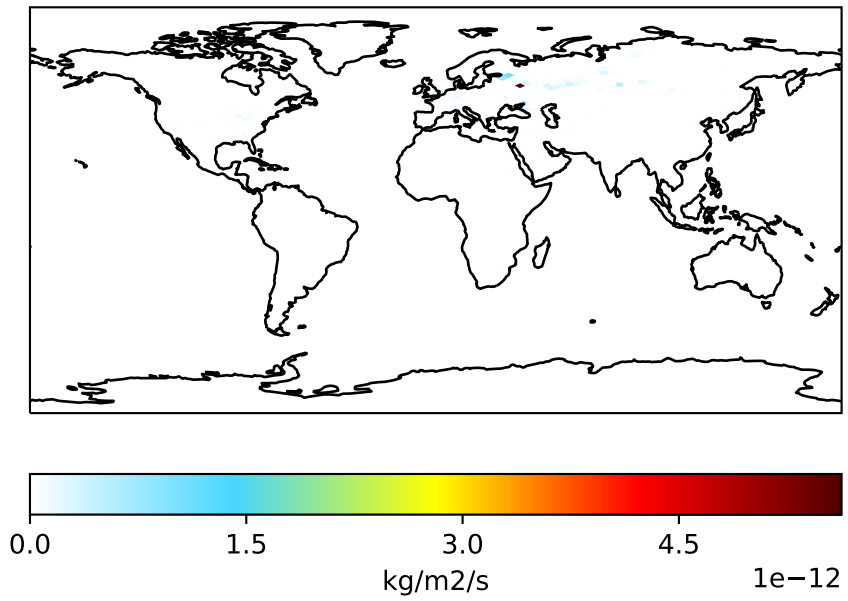


EmisRCHO_Aircraft

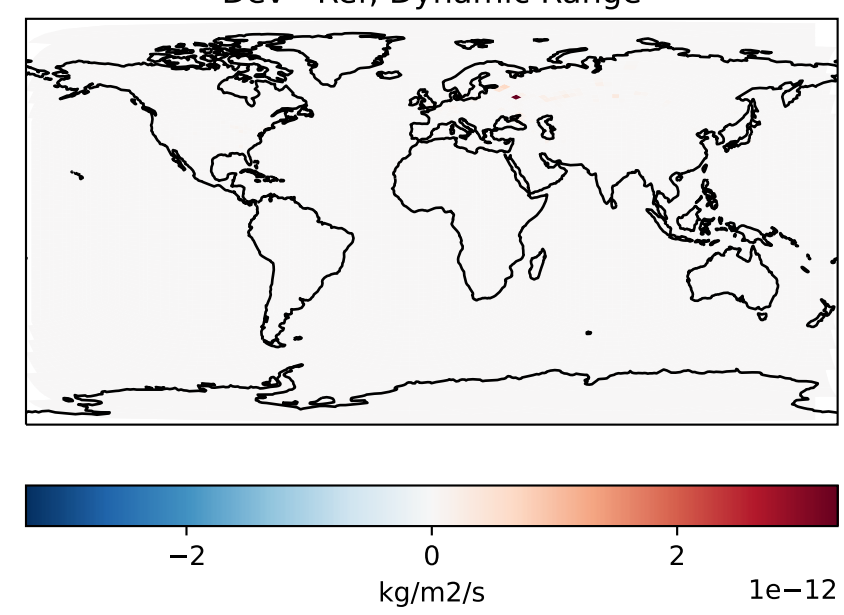
GCHP_13.3.0-rc.1 (Ref)
c48



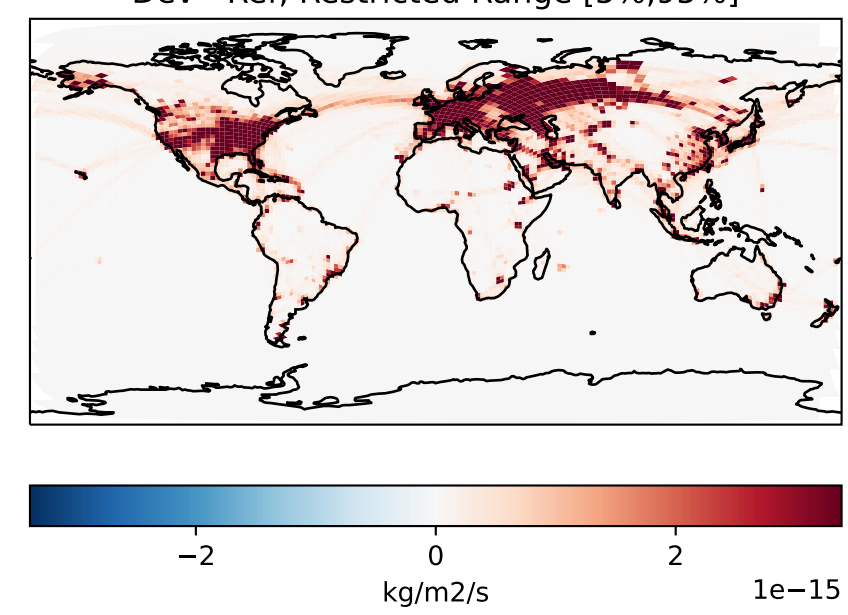
GCHP_13.4.0-rc.2 (Dev)
c48



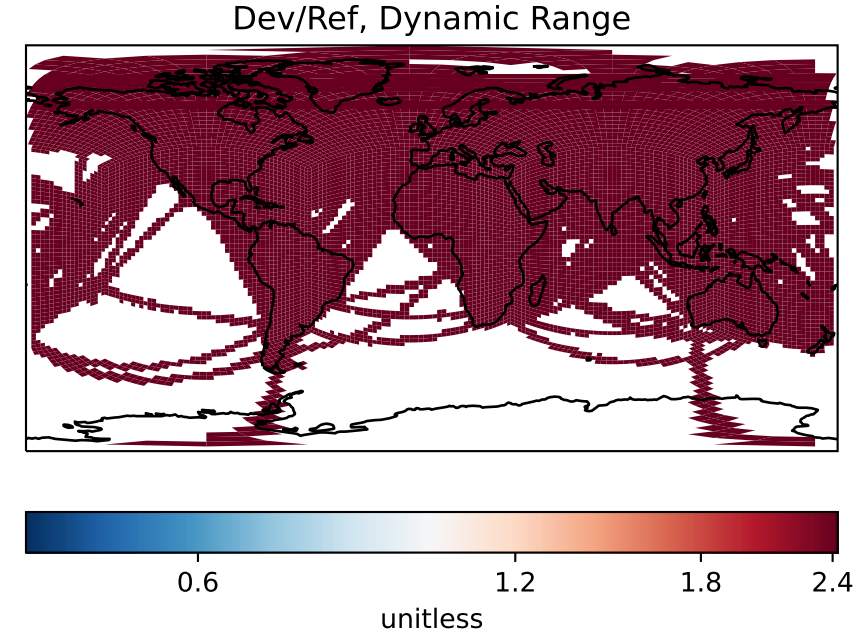
Difference
Dev - Ref, Dynamic Range



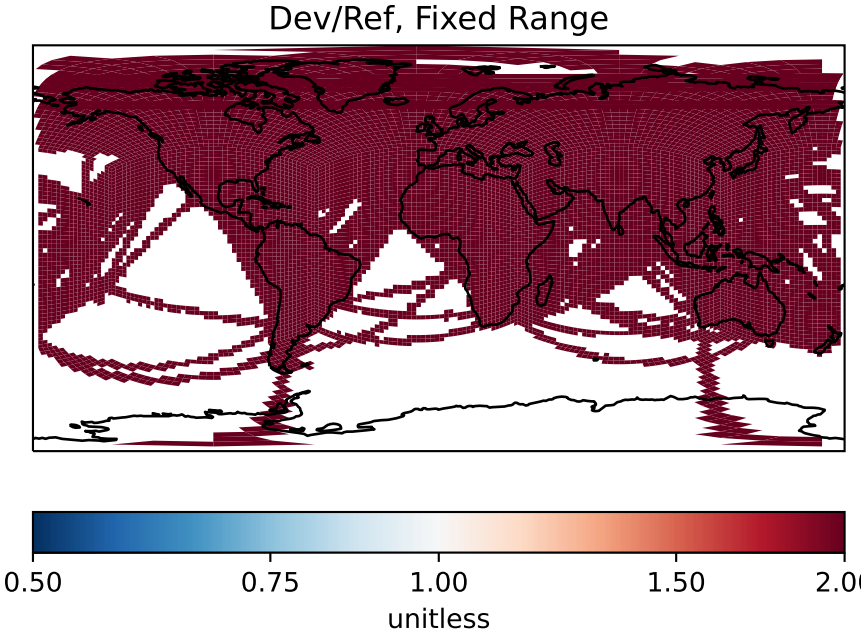
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

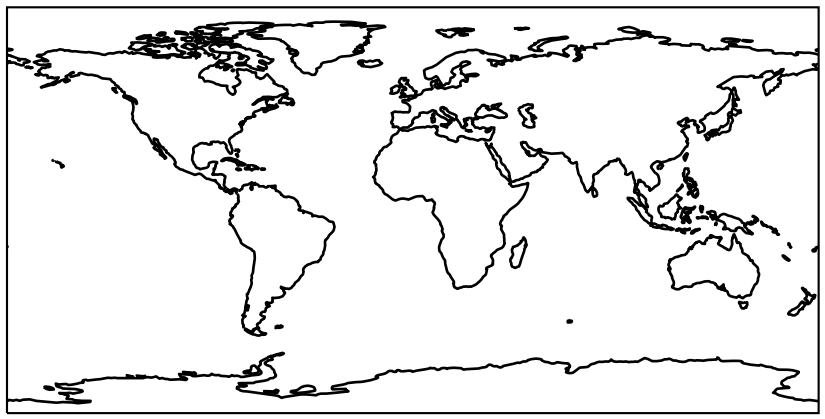


Ratio
Dev/Ref, Fixed Range



EmisRCHO_Anthro

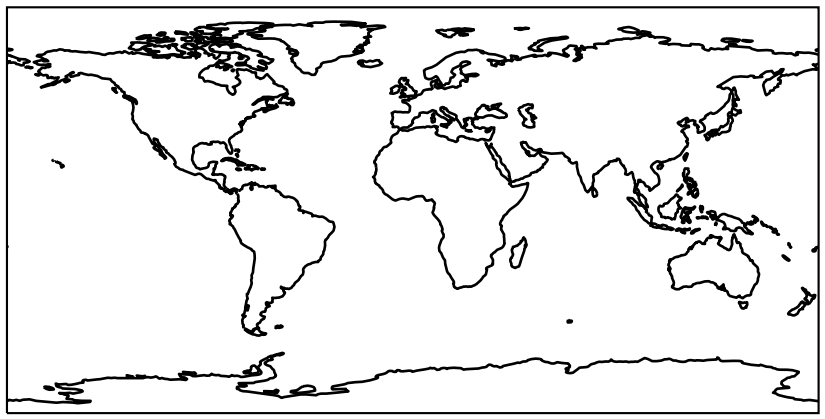
GCHP_13.3.0-rc.1 (Ref)
c48





Zero throughout domain
kg/m2/s

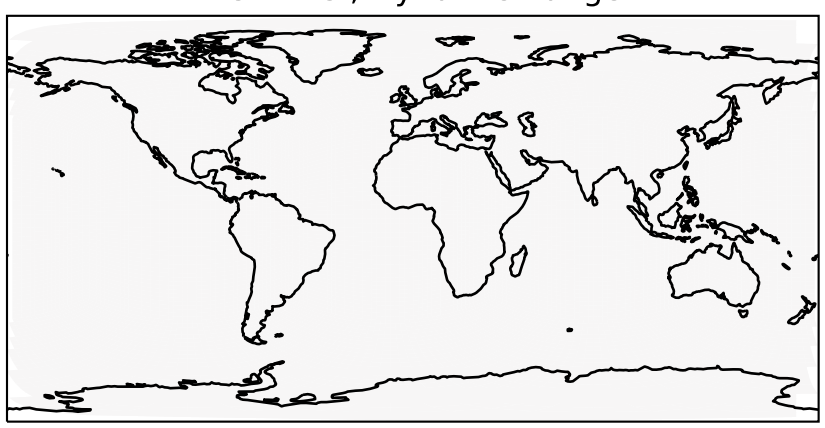
GCHP_13.4.0-rc.2 (Dev)
c48





Zero throughout domain
kg/m2/s

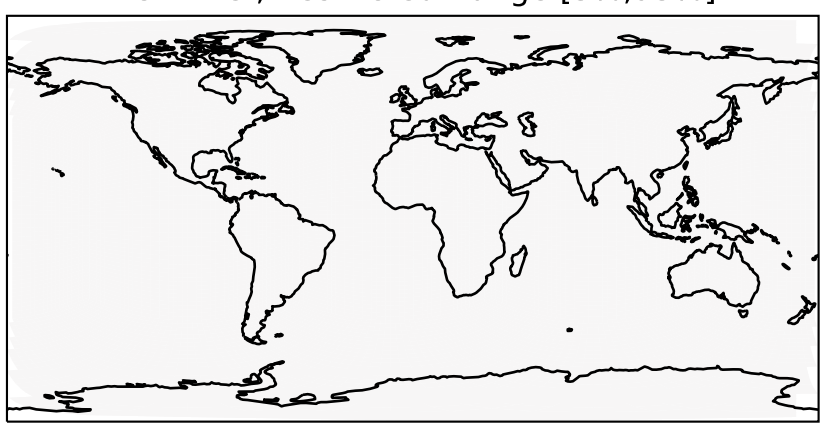
Difference
Dev - Ref, Dynamic Range





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kg/m2/s

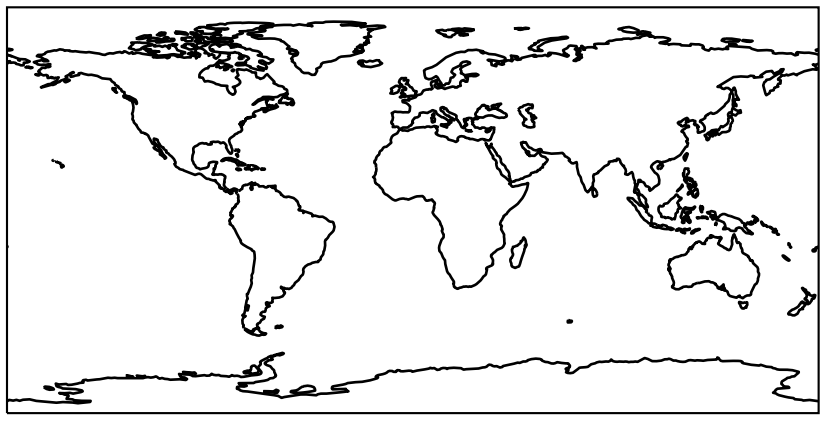
Difference
Dev - Ref, Restricted Range [5%,95%]





Zero throughout domain
kg/m2/s

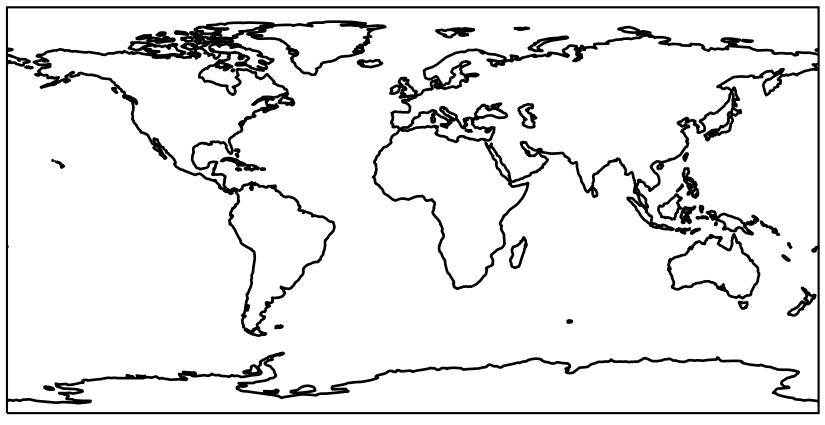
Ratio
Dev/Ref, Dynamic Range





Undefined throughout domain
unitless

Ratio
Dev/Ref, Fixed Range

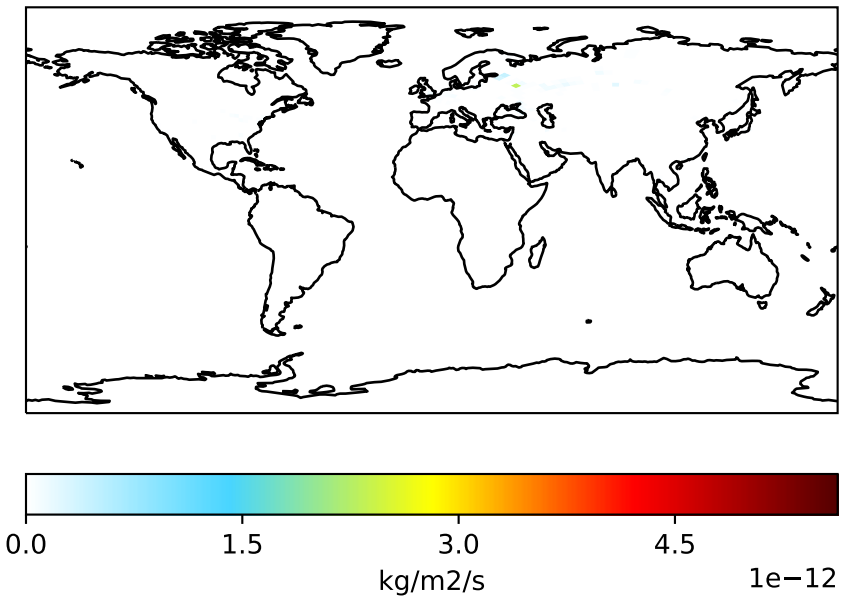




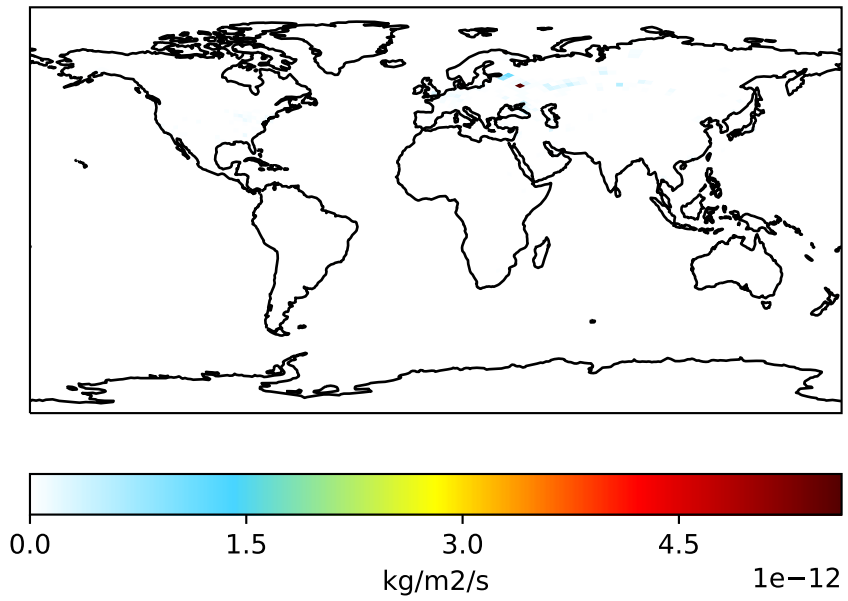
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EmisRCHO_Total

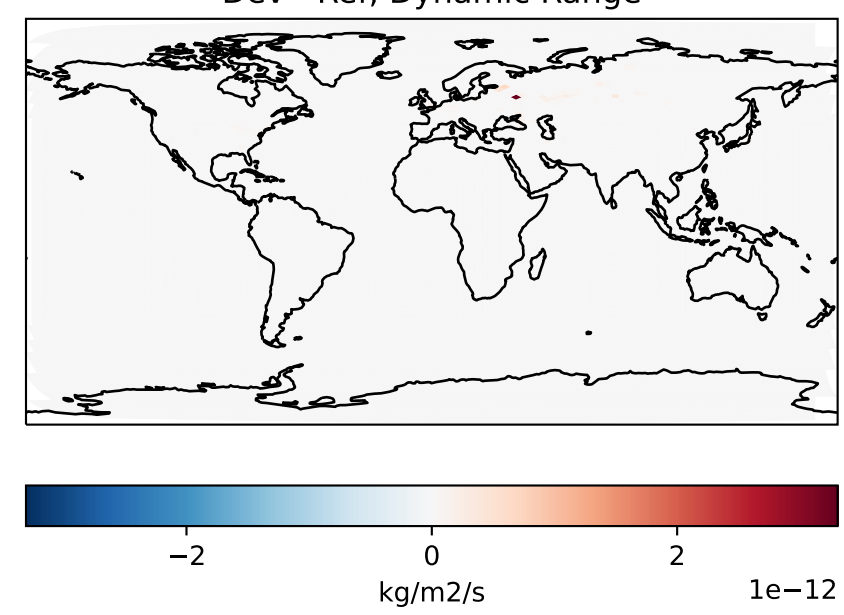
GCHP_13.3.0-rc.1 (Ref)
c48



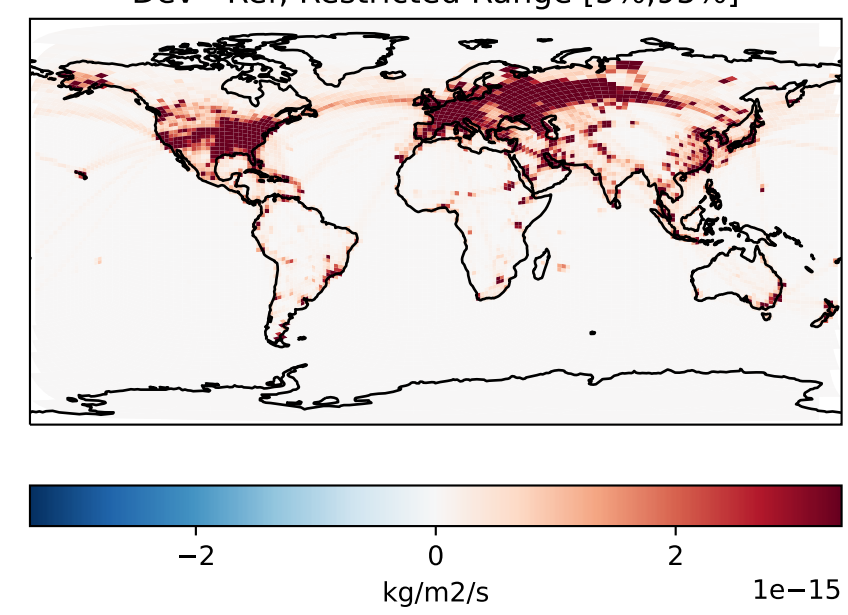
GCHP_13.4.0-rc.2 (Dev)
c48



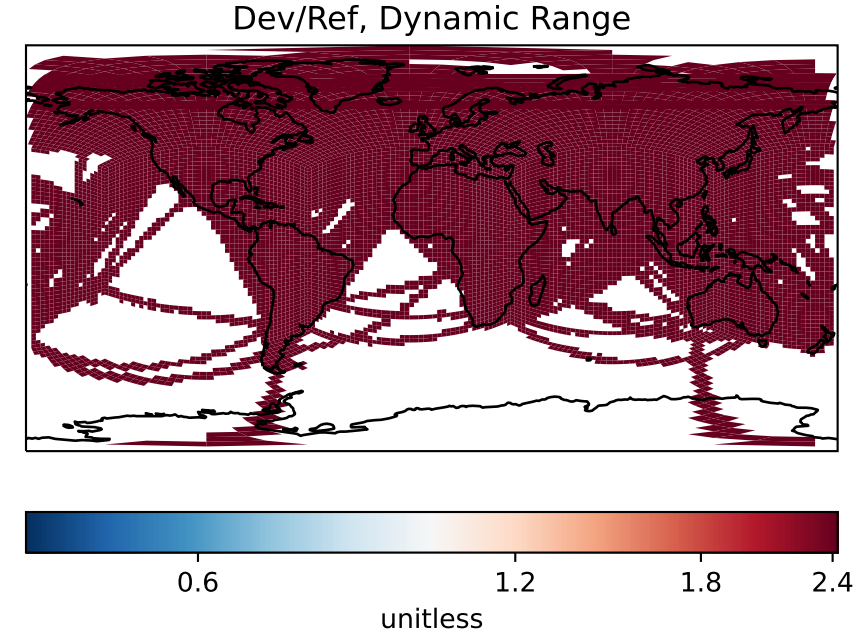
Difference
Dev - Ref, Dynamic Range



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



Ratio
Dev/Ref, Dynamic Range



Ratio
Dev/Ref, Fixed Range

