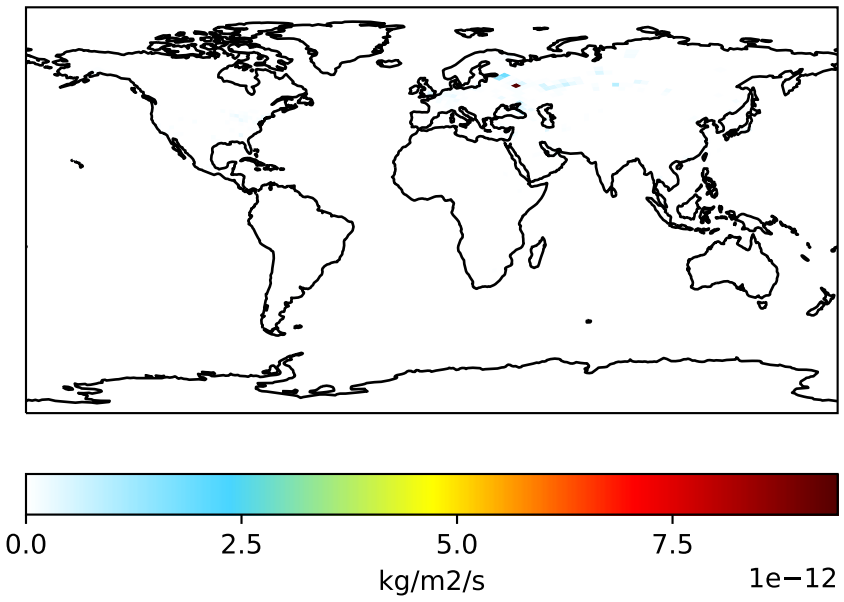
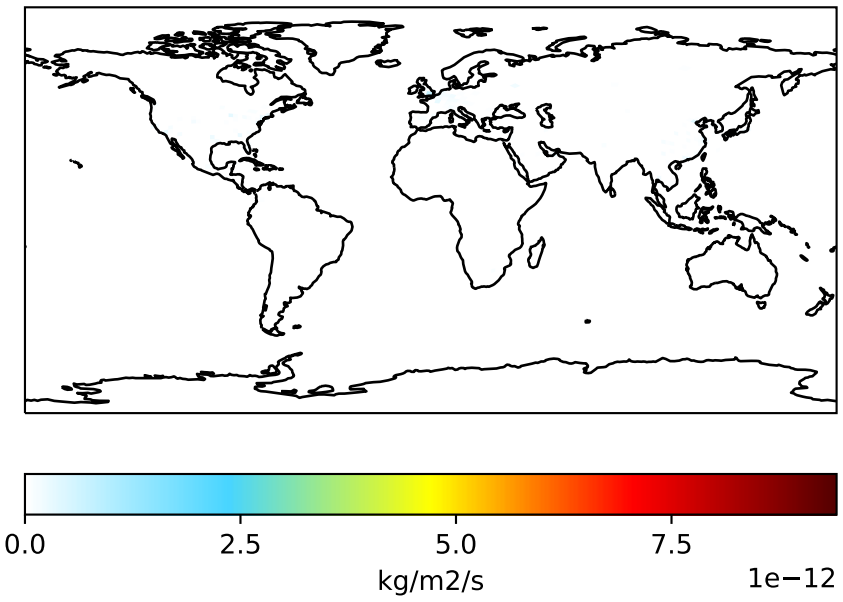
EmisALK4_Aircraft

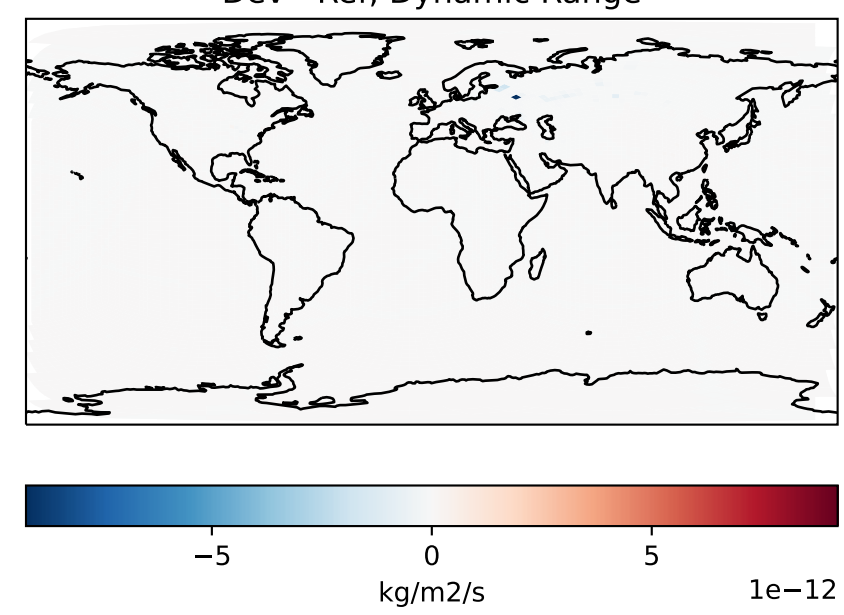
GCHP_13.3.0-rc.1 (Ref)
c48



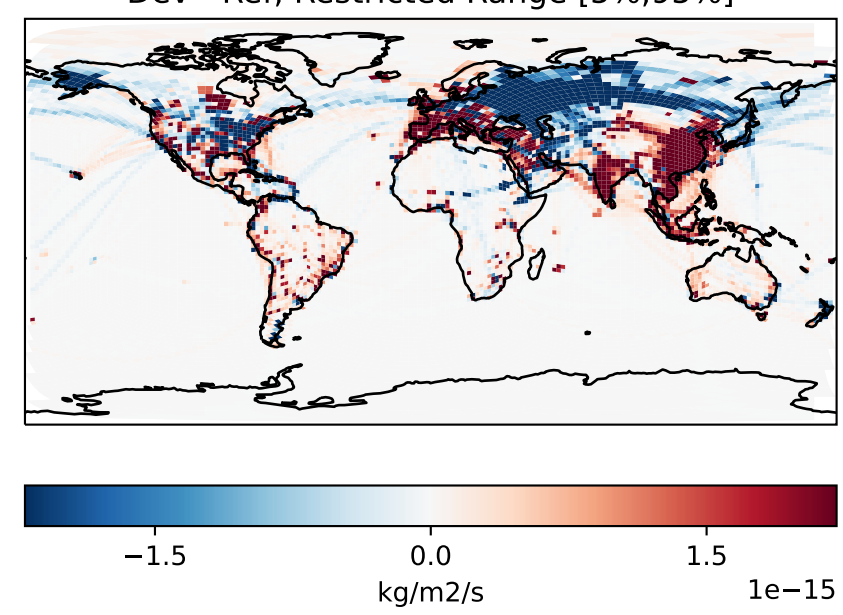
GCHP_13.4.0-rc.4 (Dev)
c48



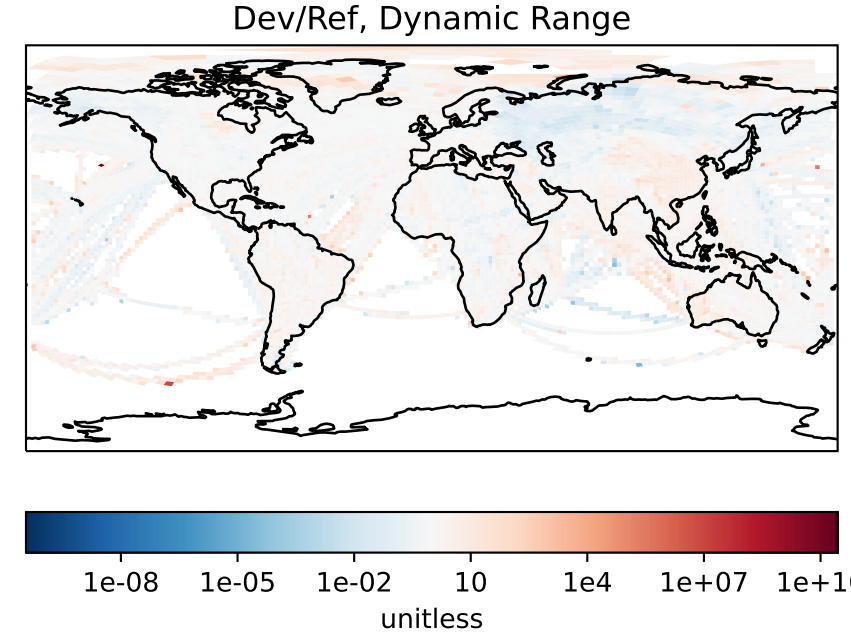
Difference
Dev - Ref, Dynamic Range



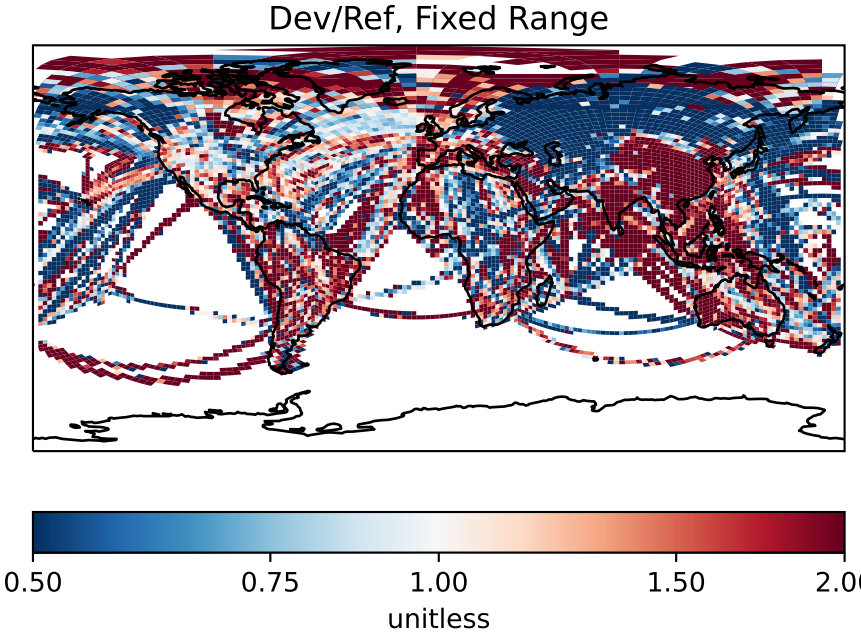
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

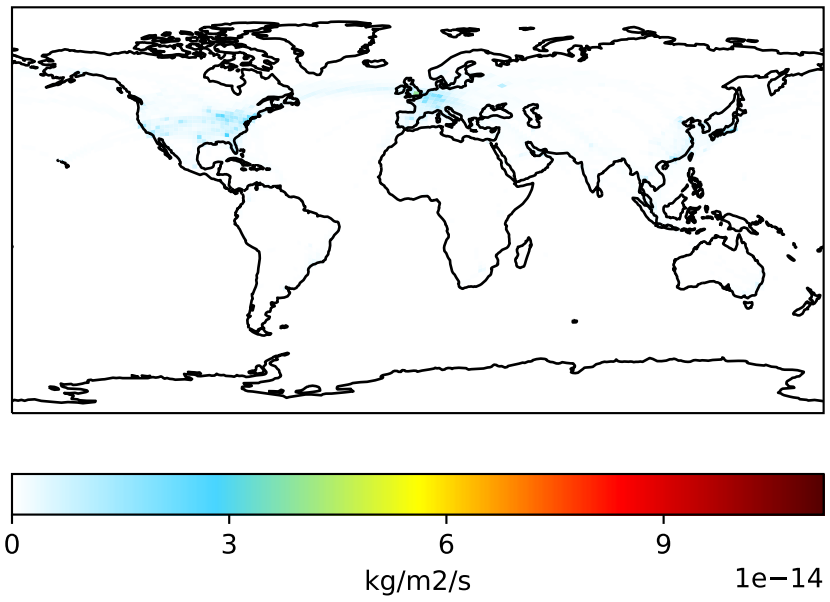


Ratio
Dev/Ref, Fixed Range

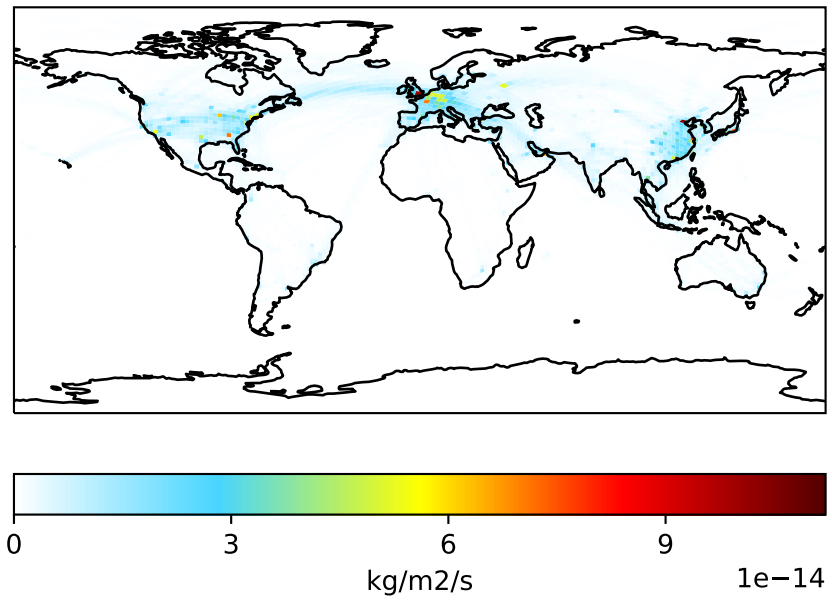


EmisBCPI_Aircraft

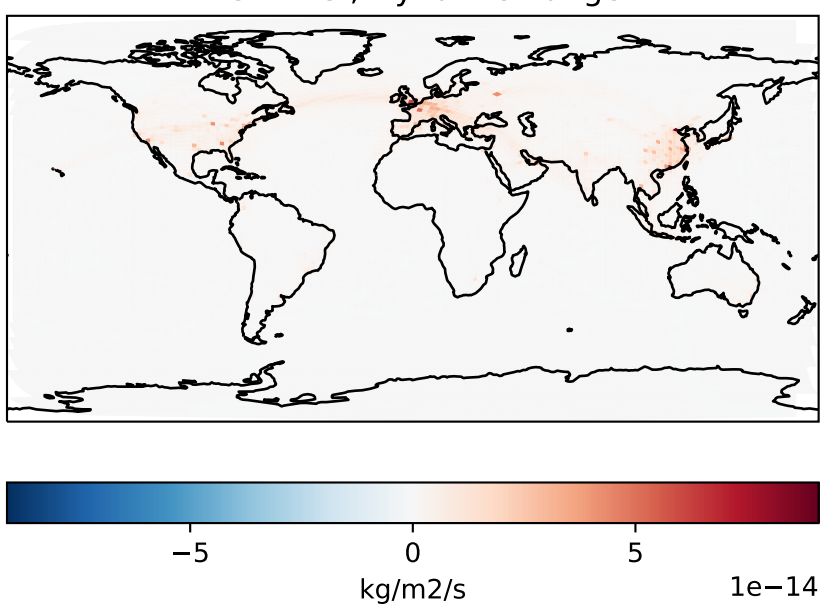
GCHP_13.3.0-rc.1 (Ref)
c48



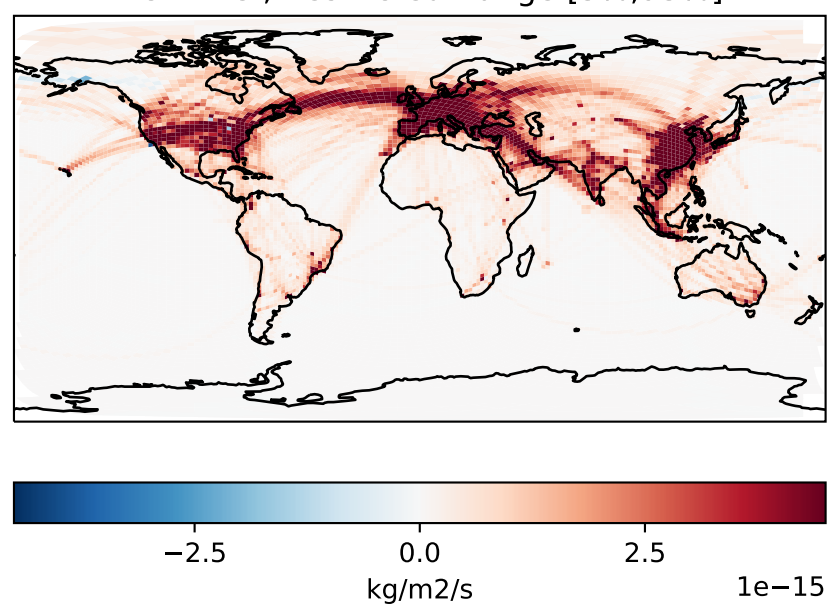
GCHP_13.4.0-rc.4 (Dev)
c48



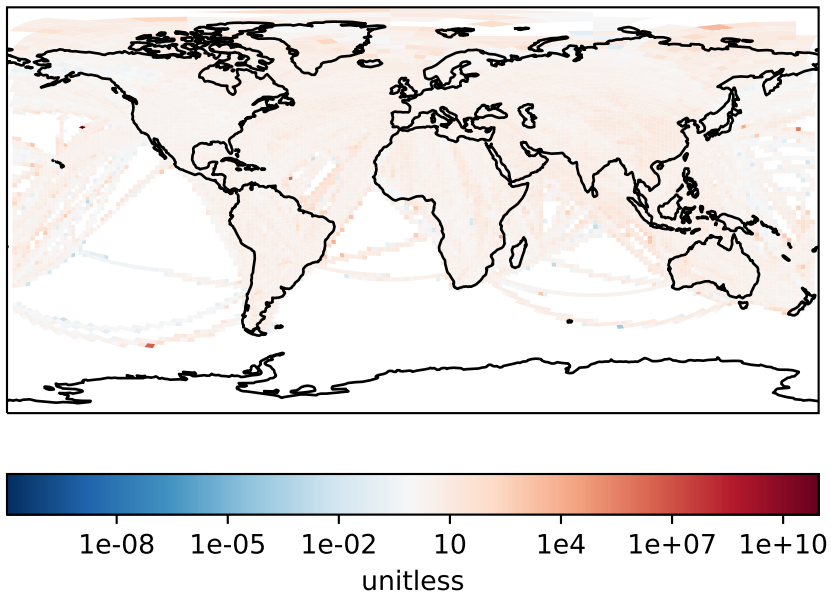
Difference
Dev - Ref, Dynamic Range



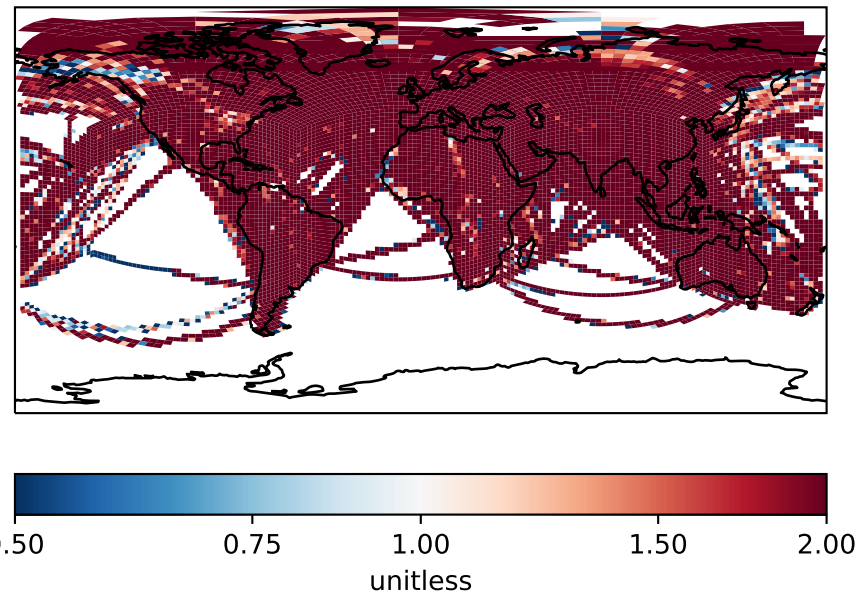
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

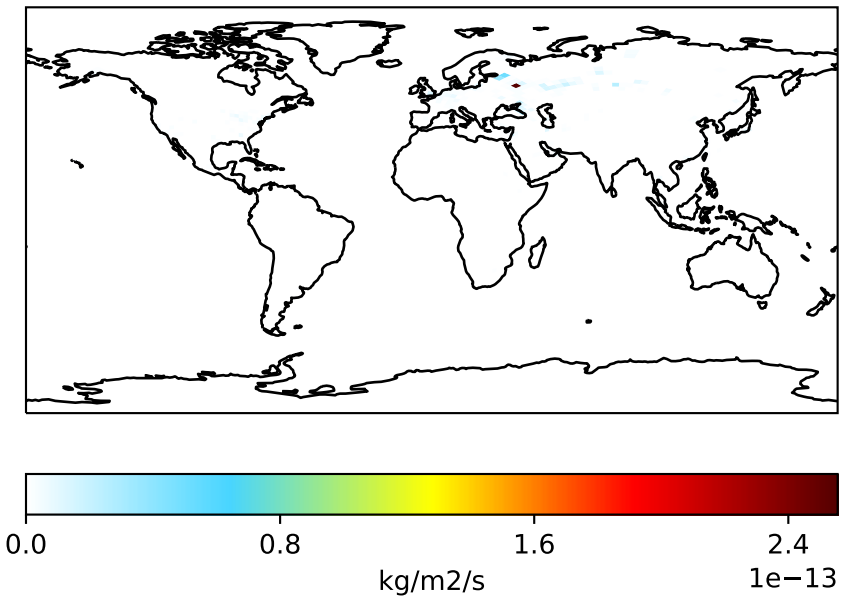


Ratio
Dev/Ref, Fixed Range

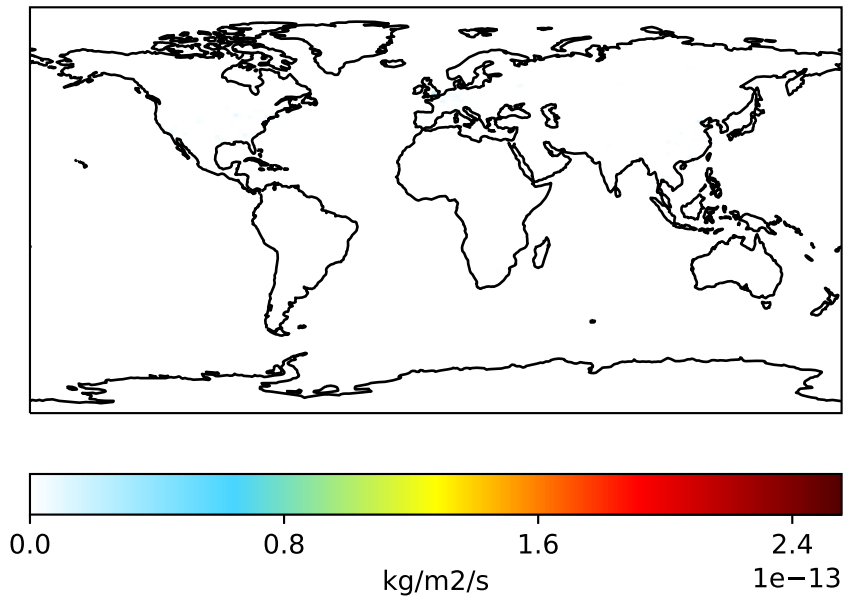


EmisC2H6_Aircraft

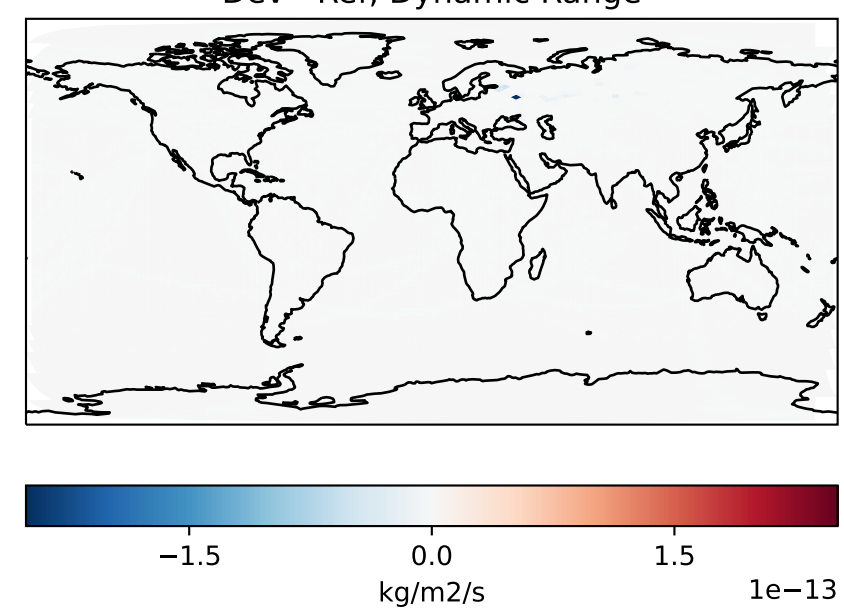
GCHP_13.3.0-rc.1 (Ref)
c48



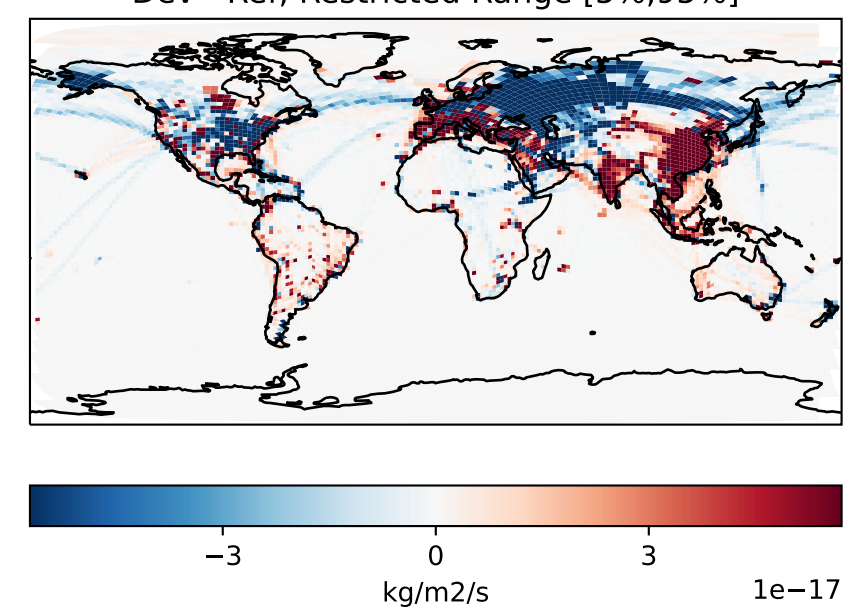
GCHP_13.4.0-rc.4 (Dev)
c48



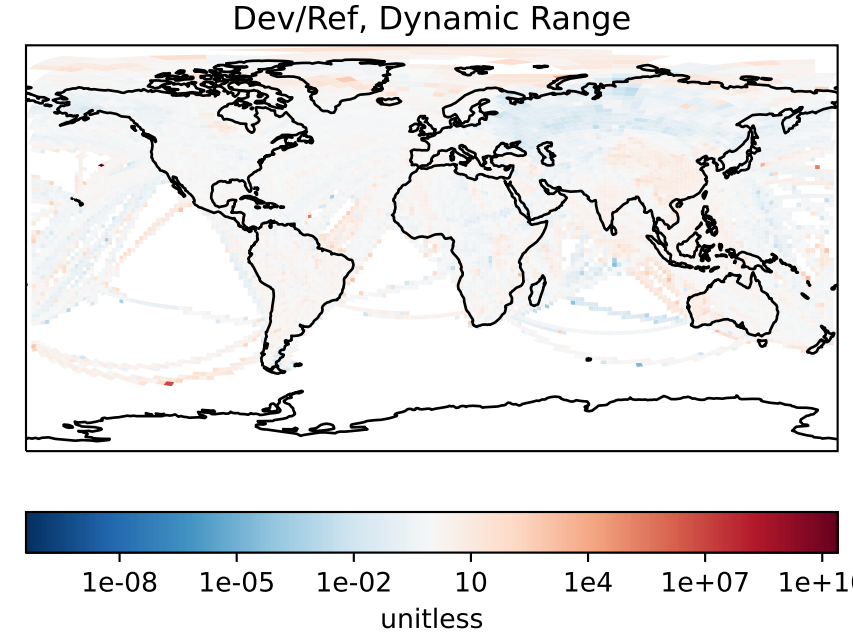
Difference
Dev - Ref, Dynamic Range



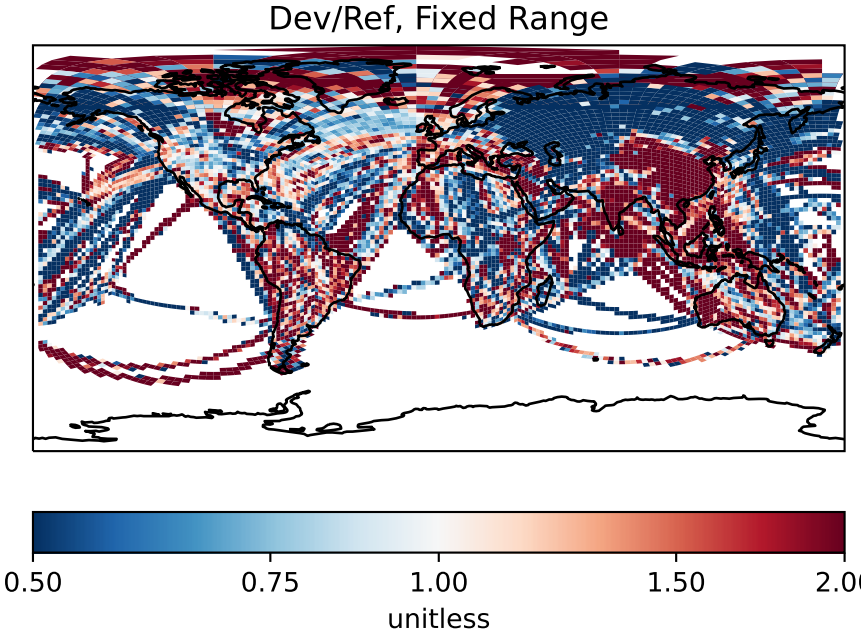
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

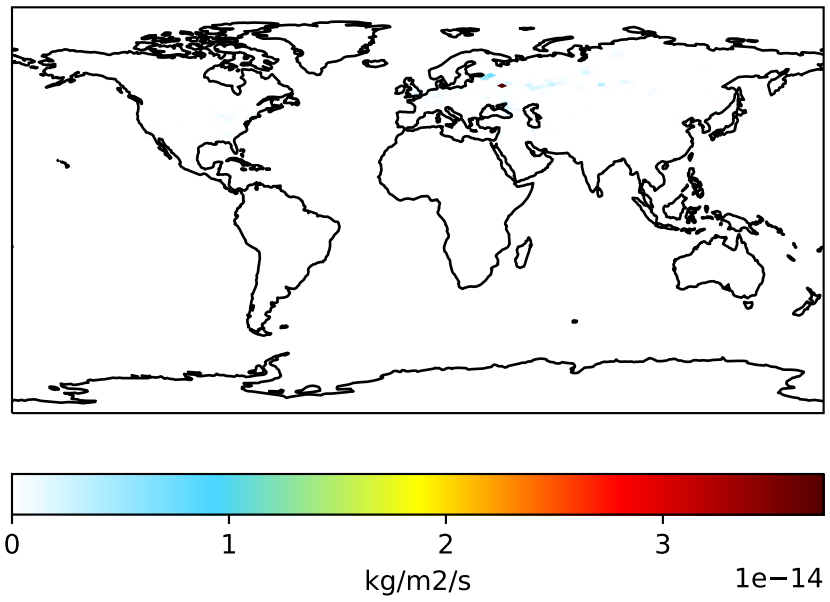


Ratio
Dev/Ref, Fixed Range

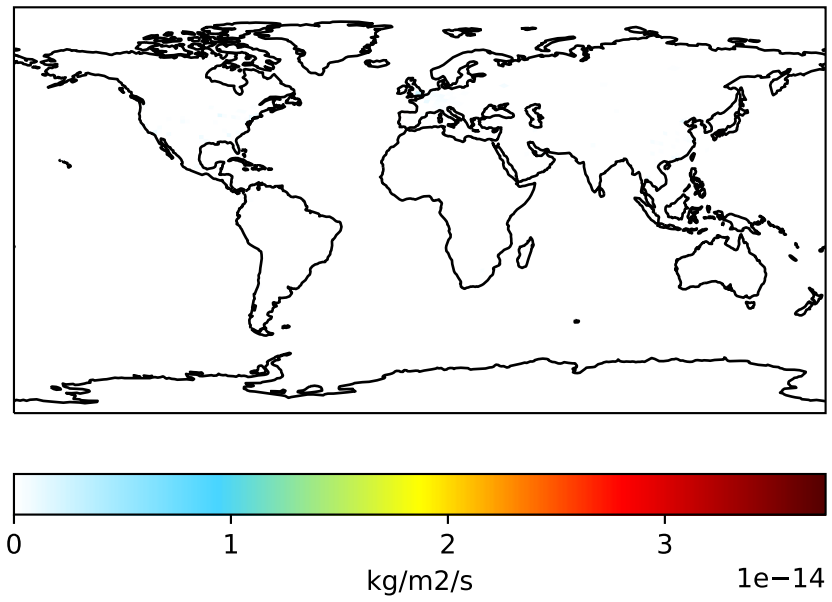


EmisC3H8_Aircraft

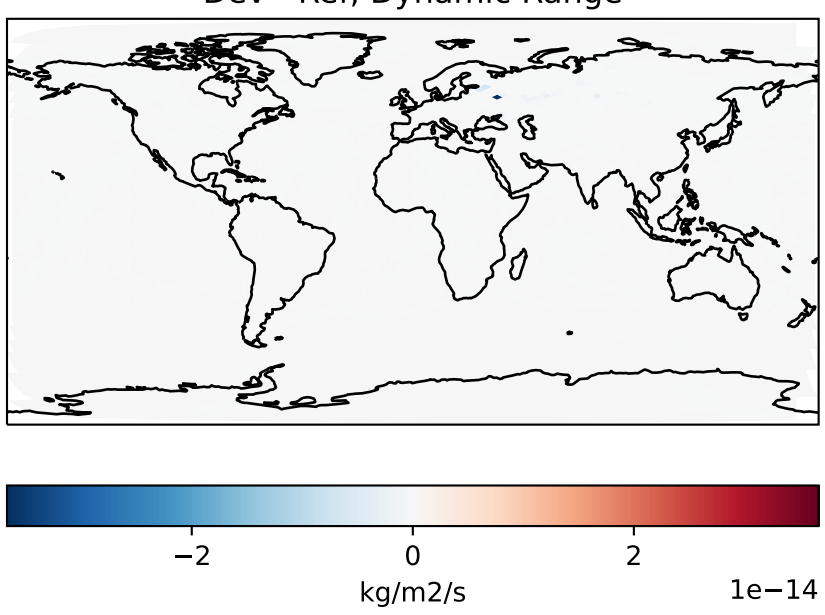
GCHP_13.3.0-rc.1 (Ref)
c48



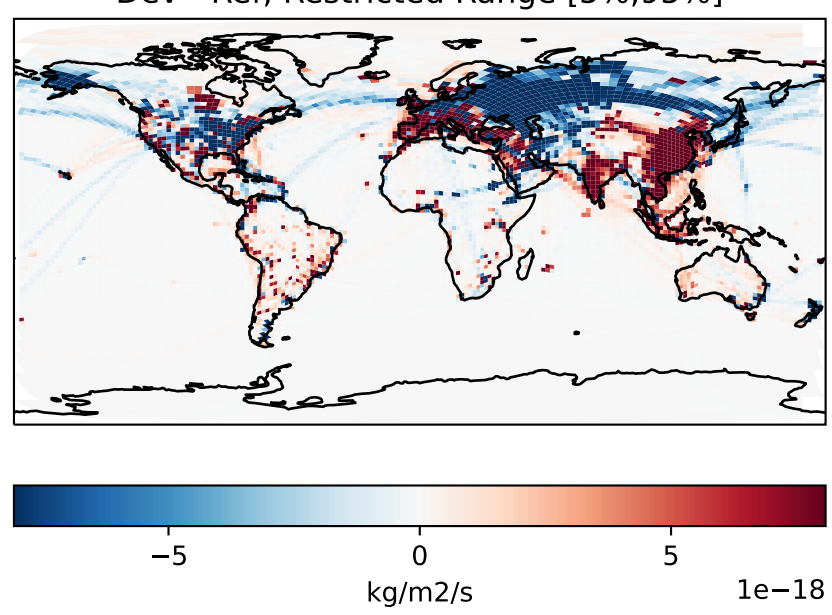
GCHP_13.4.0-rc.4 (Dev)
c48



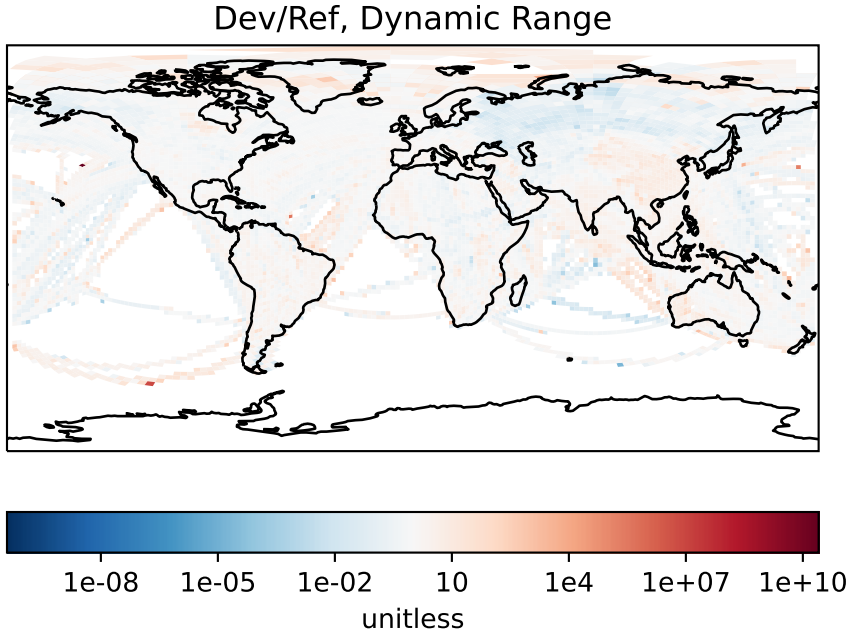
Difference
Dev - Ref, Dynamic Range



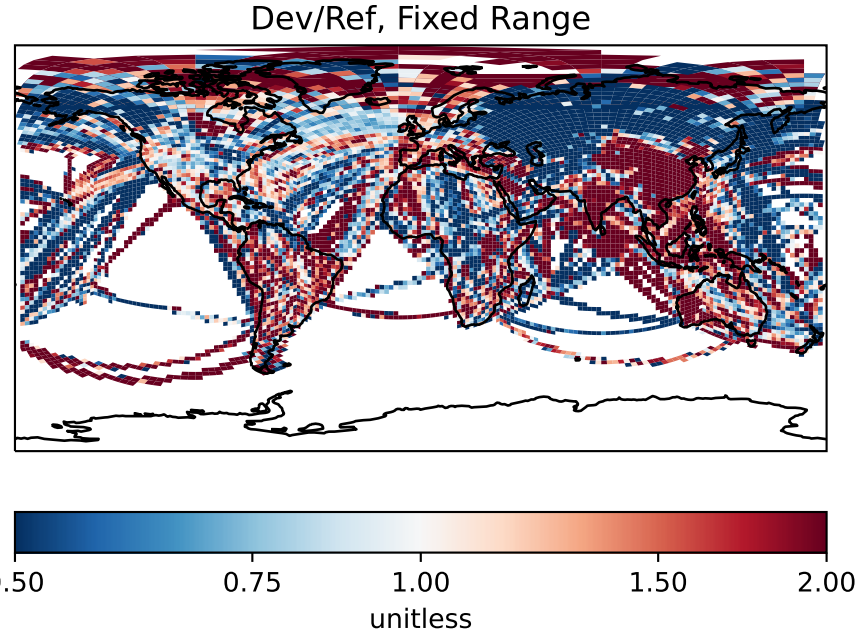
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

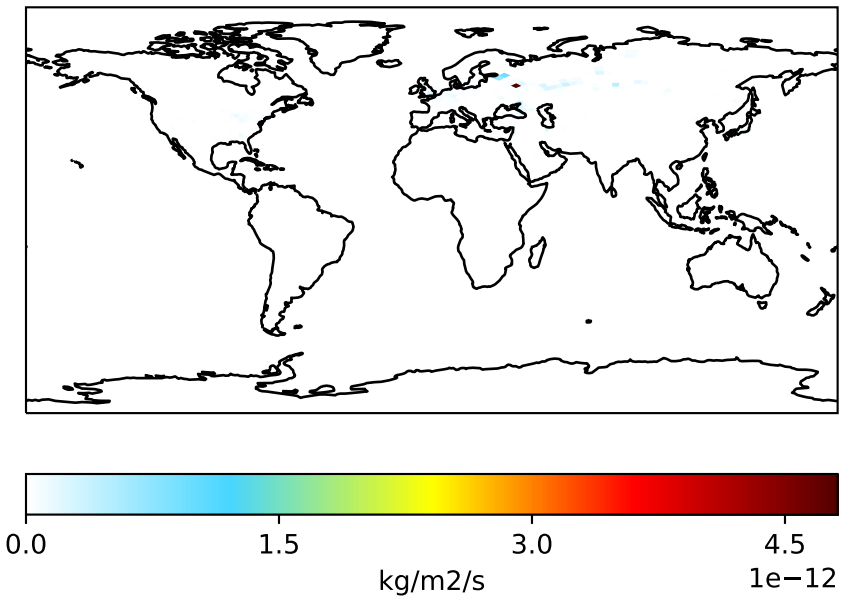


Ratio
Dev/Ref, Fixed Range

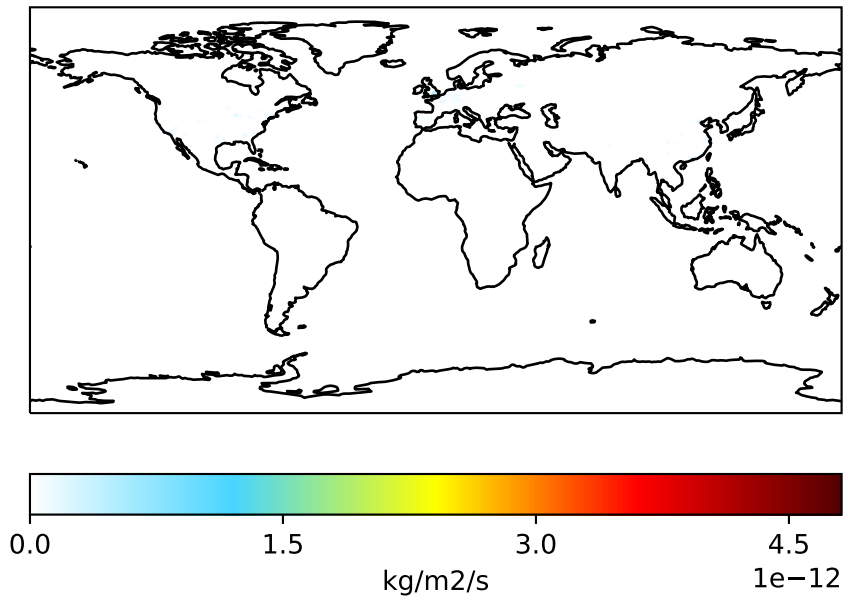


EmisCH2O_Aircraft

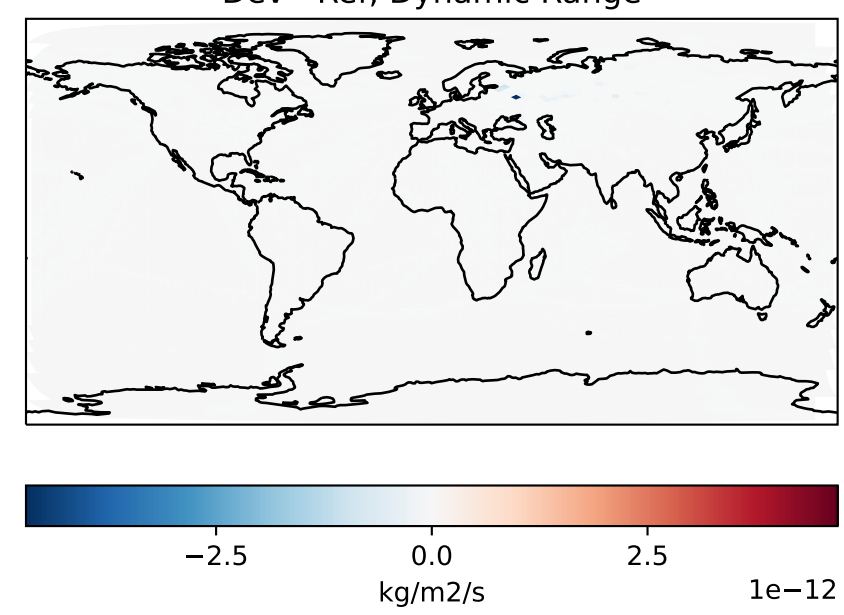
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c48



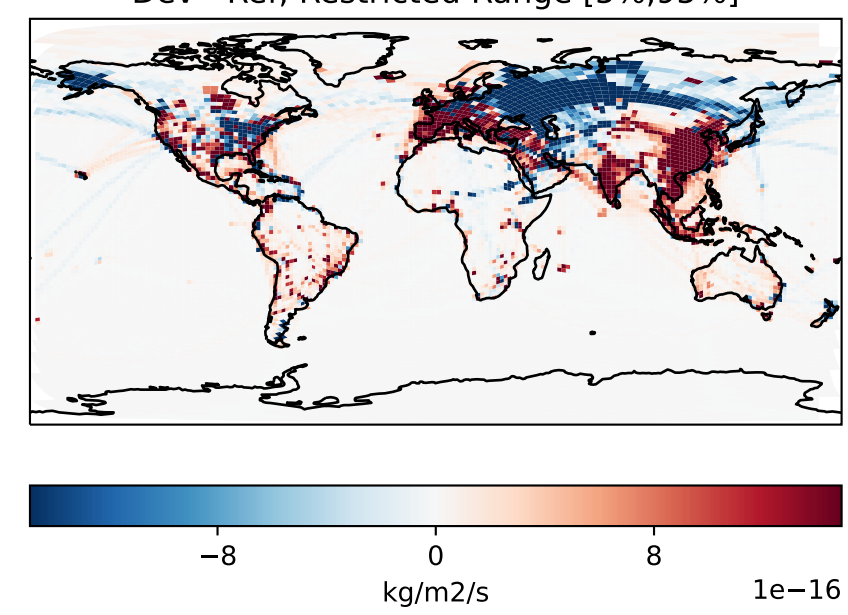
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c48



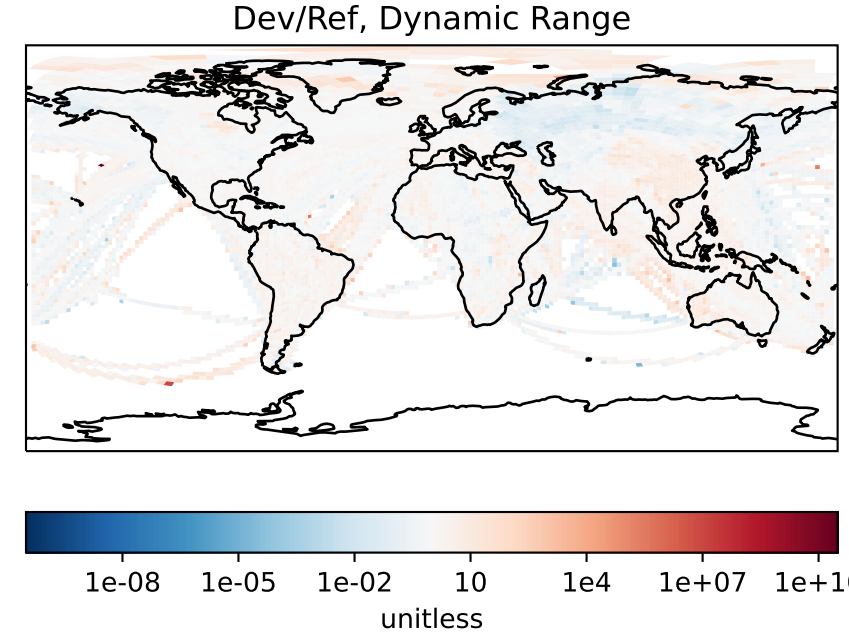
Difference
Dev - Ref, Dynamic Range



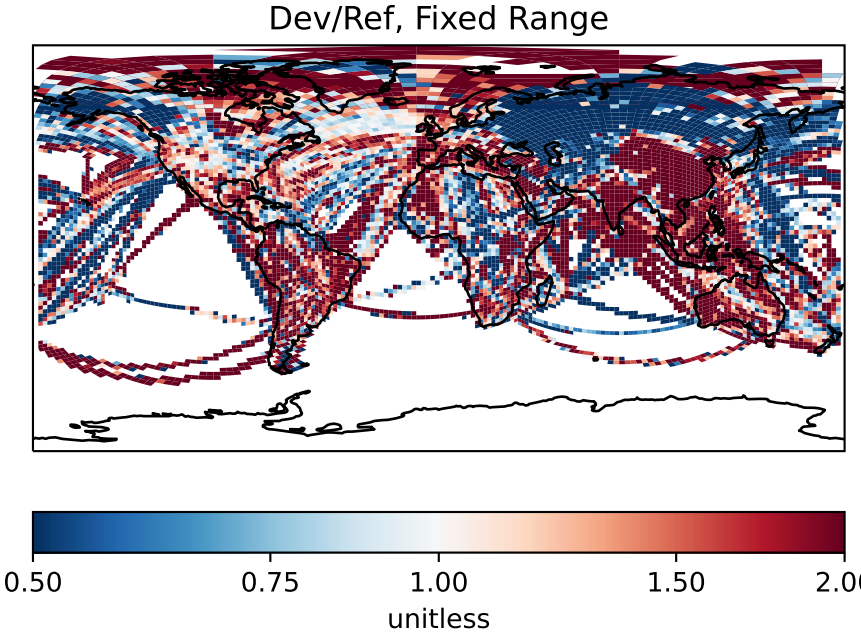
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

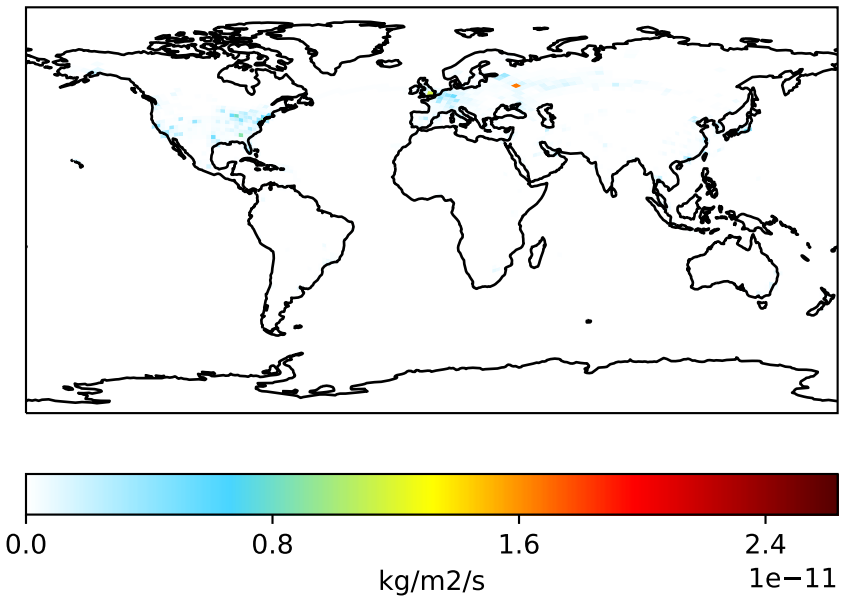


Ratio
Dev/Ref, Fixed Range

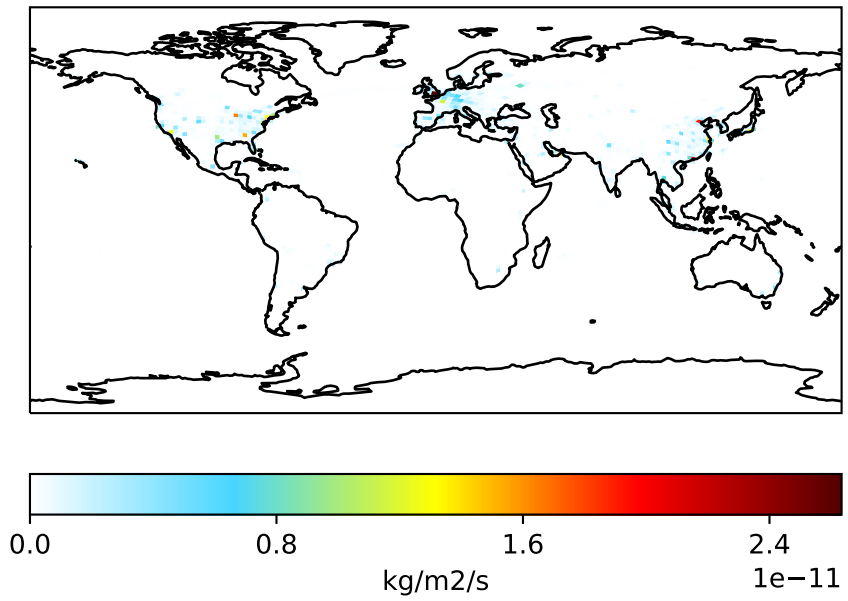


EmisCO_Aircraft

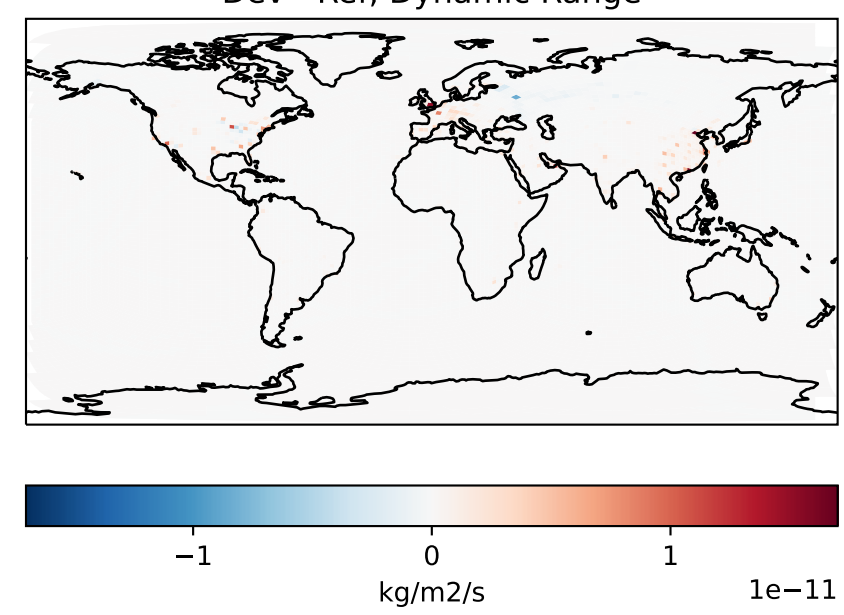
GCHP_13.3.0-rc.1 (Ref)
c48



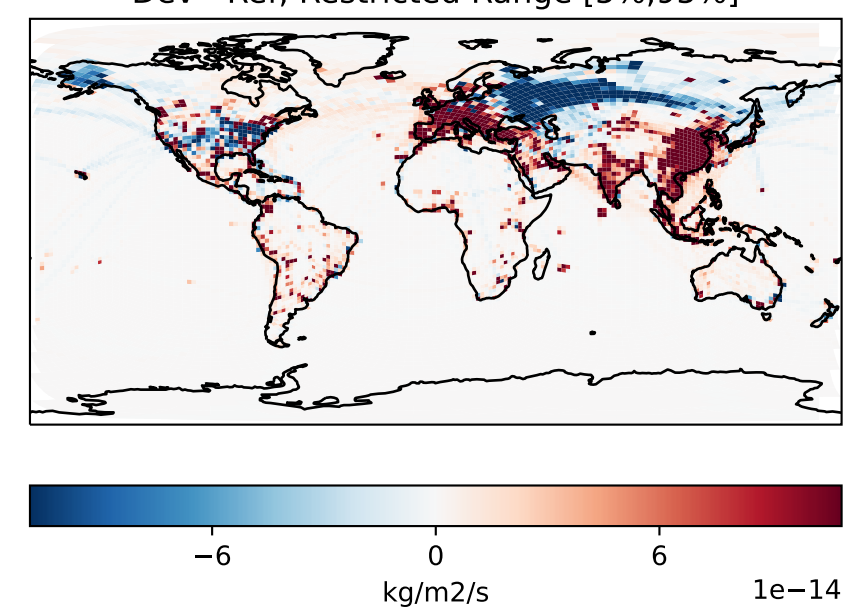
GCHP_13.4.0-rc.4 (Dev)
c48



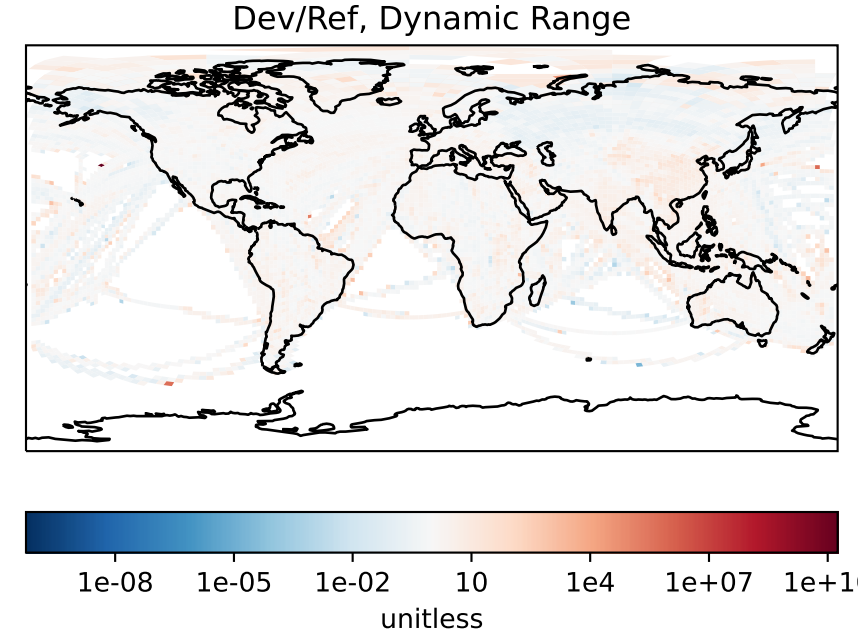
Difference
Dev - Ref, Dynamic Range



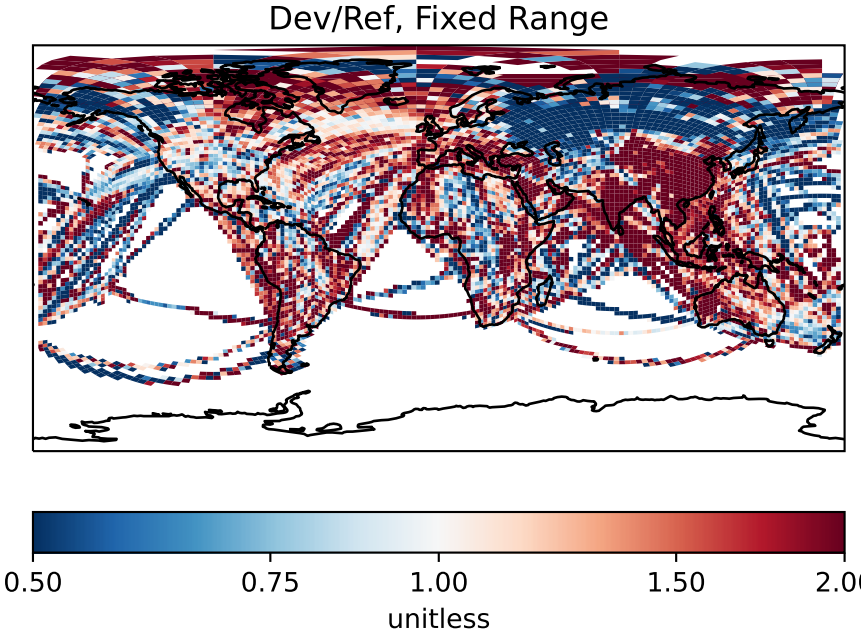
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

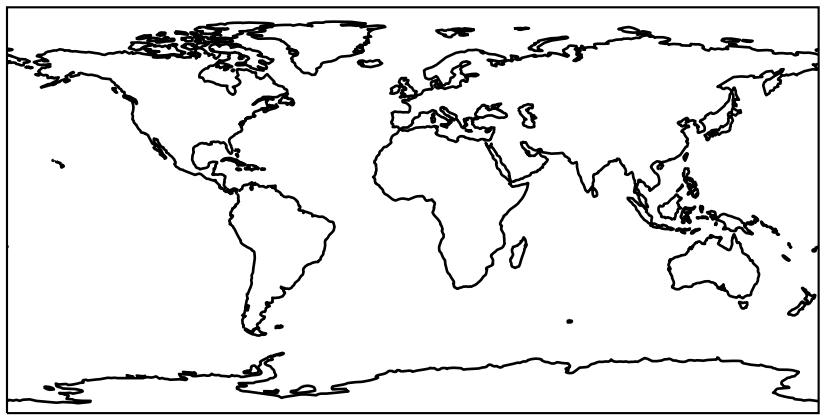


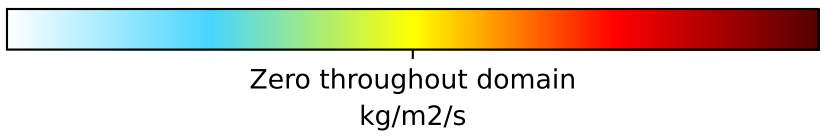
Ratio
Dev/Ref, Fixed Range



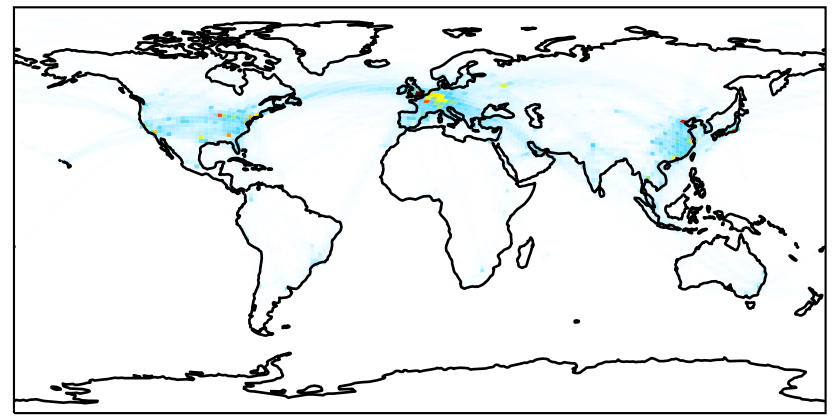
EmisH2O_Aircraft

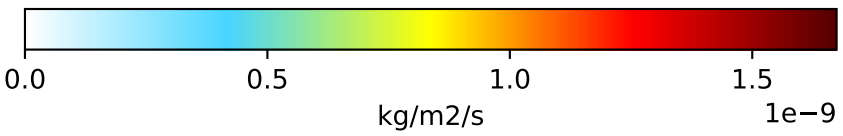
GCHP_13.3.0-rc.1 (Ref)
c48



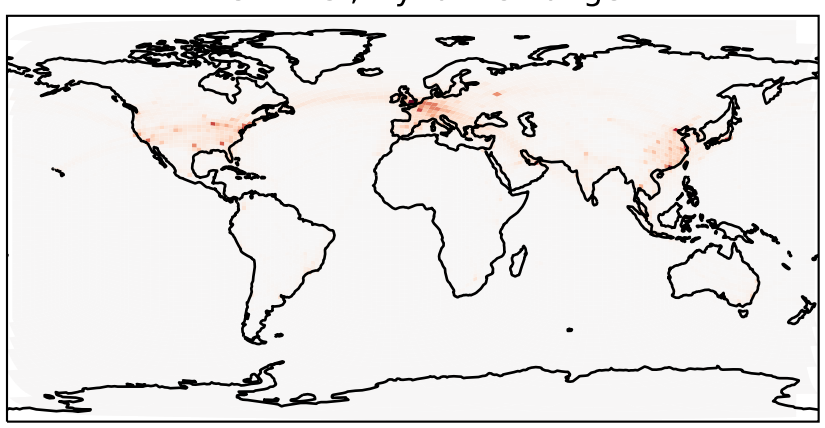


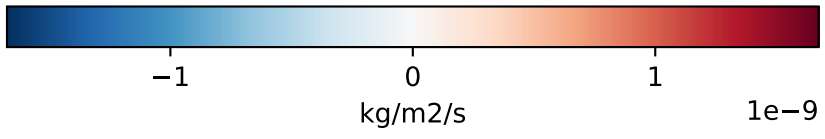
GCHP_13.4.0-rc.4 (Dev)
c48



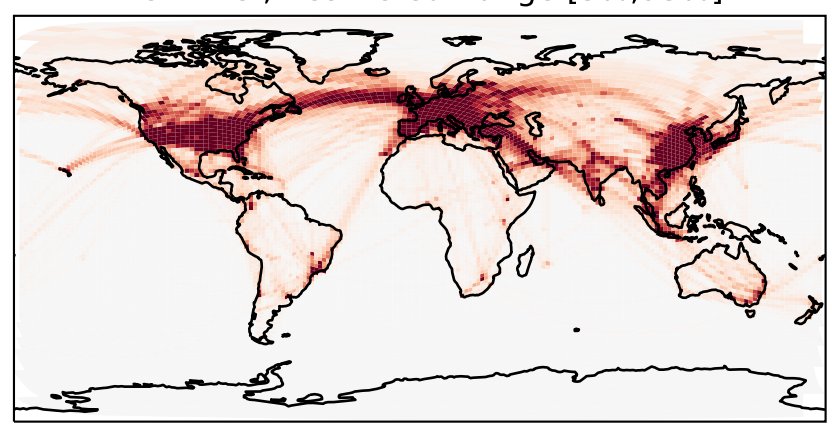


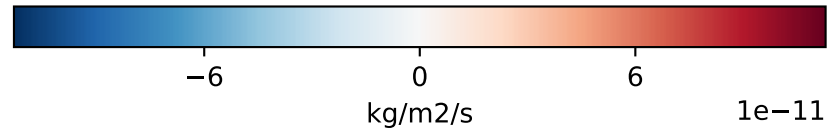
Difference
Dev - Ref, Dynamic Range



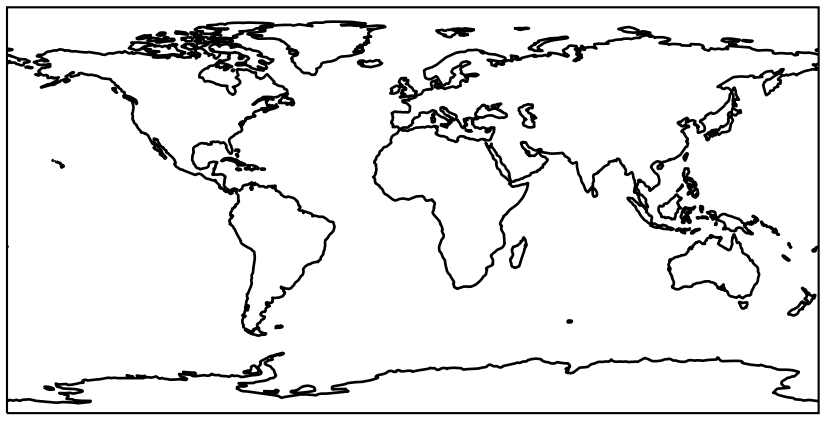


Difference
Dev - Ref, Restricted Range [5%,95%]



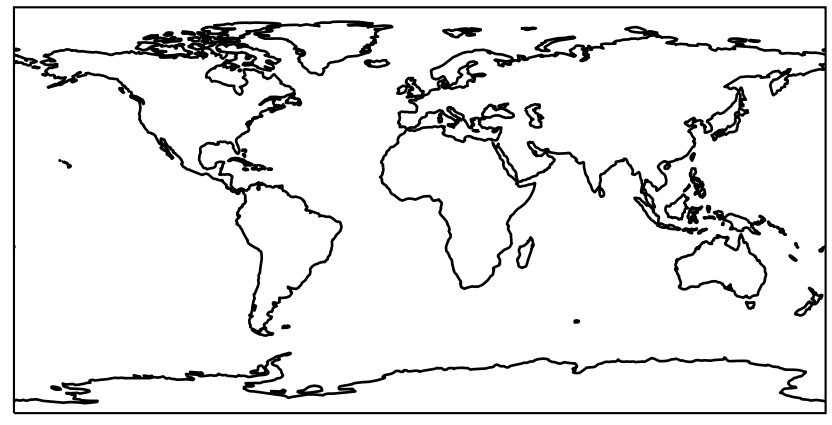


Ratio
Dev/Ref, Dynamic Range





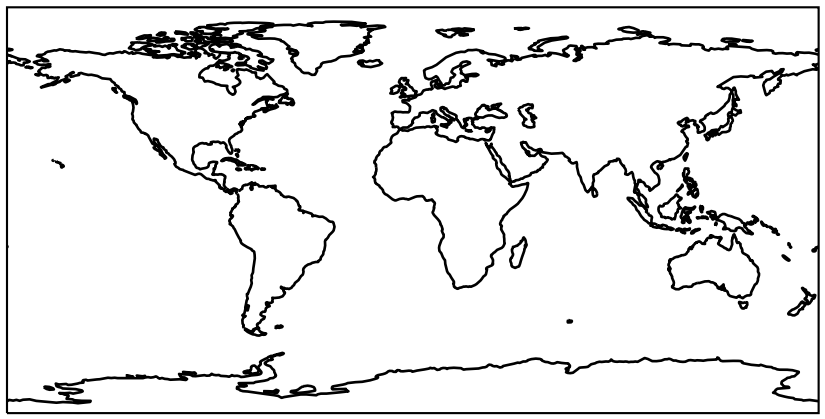
Ratio
Dev/Ref, Fixed Range





EmisHONO_Aircraft

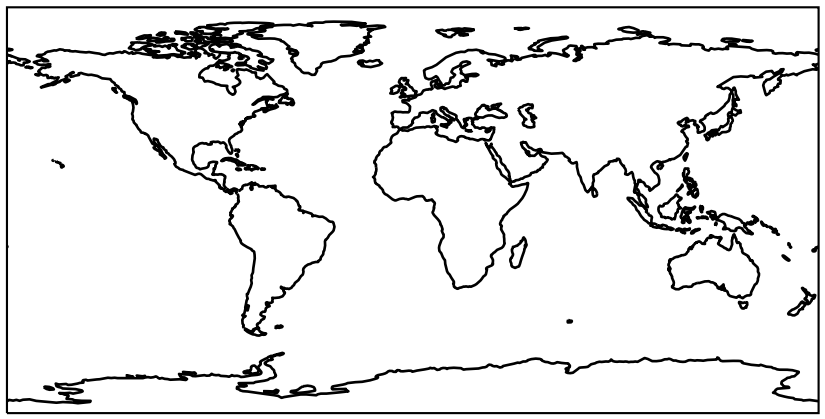
GCHP_13.3.0-rc.1 (Ref)
c48





Zero throughout domain
kg/m2/s

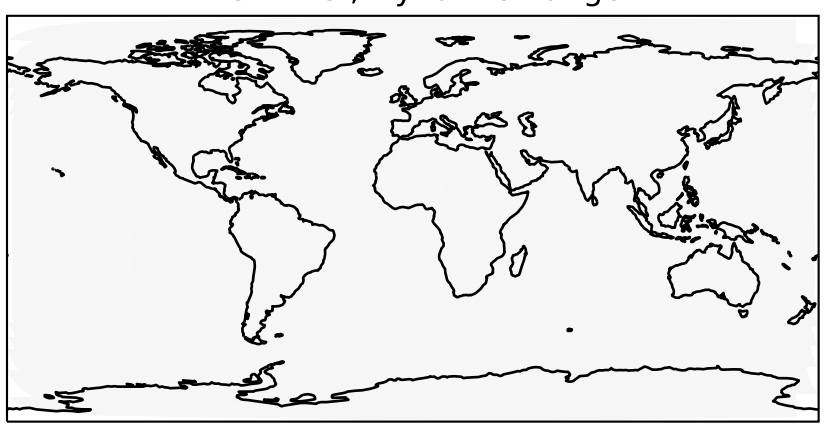
GCHP_13.4.0-rc.4 (Dev)
c48





Zero throughout domain
kg/m2/s

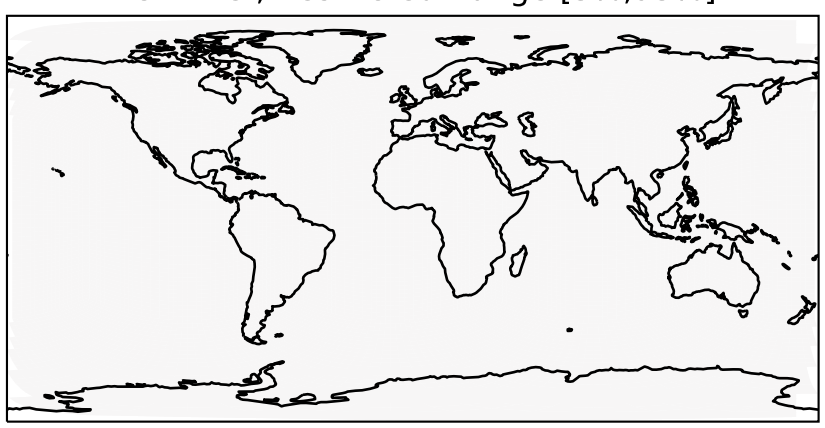
Difference
Dev - Ref, Dynamic Range





Zero throughout domain
kg/m2/s

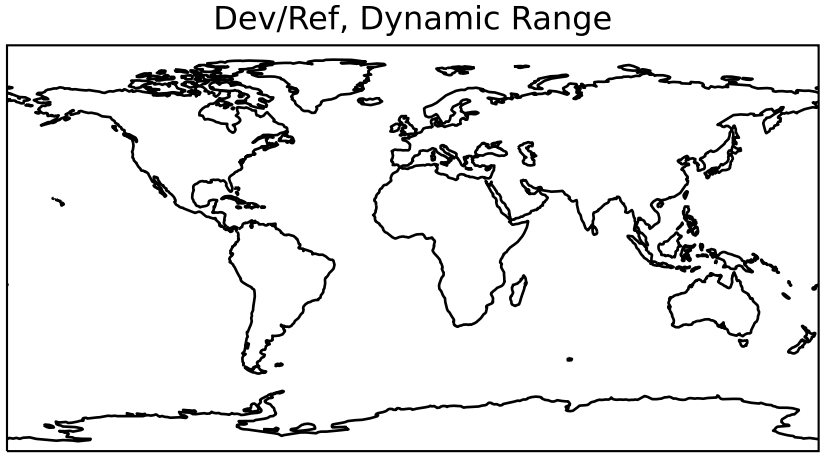
Difference
Dev - Ref, Restricted Range [5%,95%]





Zero throughout domain
kg/m2/s

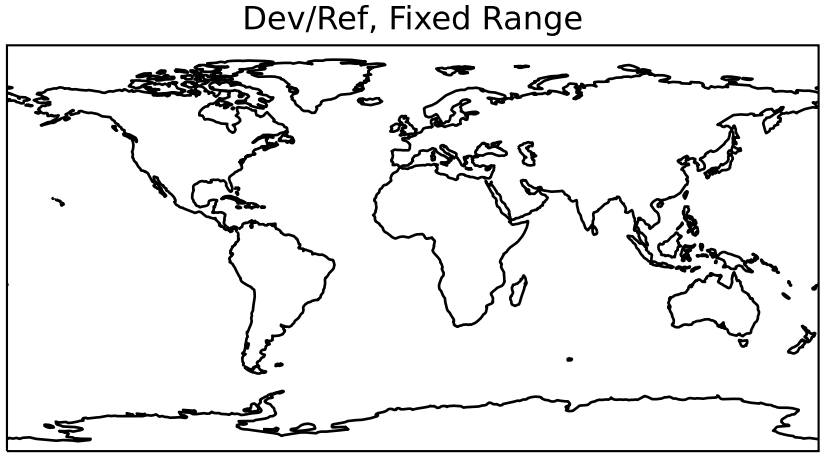
Ratio
Dev/Ref, Dynamic Range





Undefined throughout domain
unitless

Ratio
Dev/Ref, Fixed Range

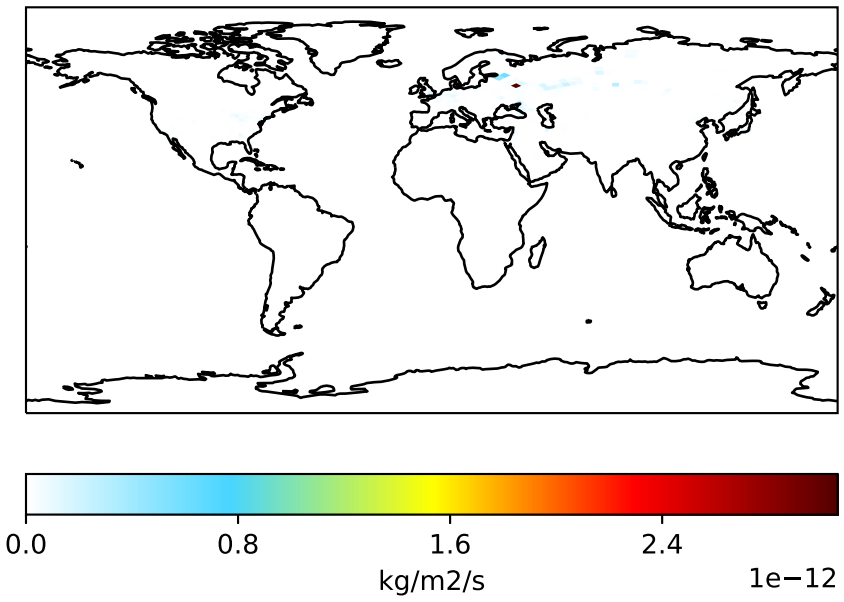




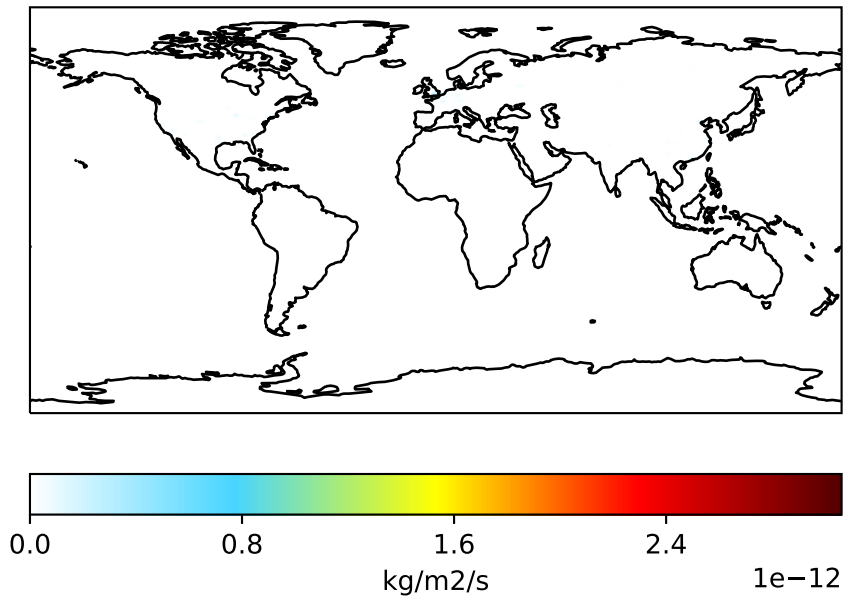
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unitless

EmisMACR_Aircraft

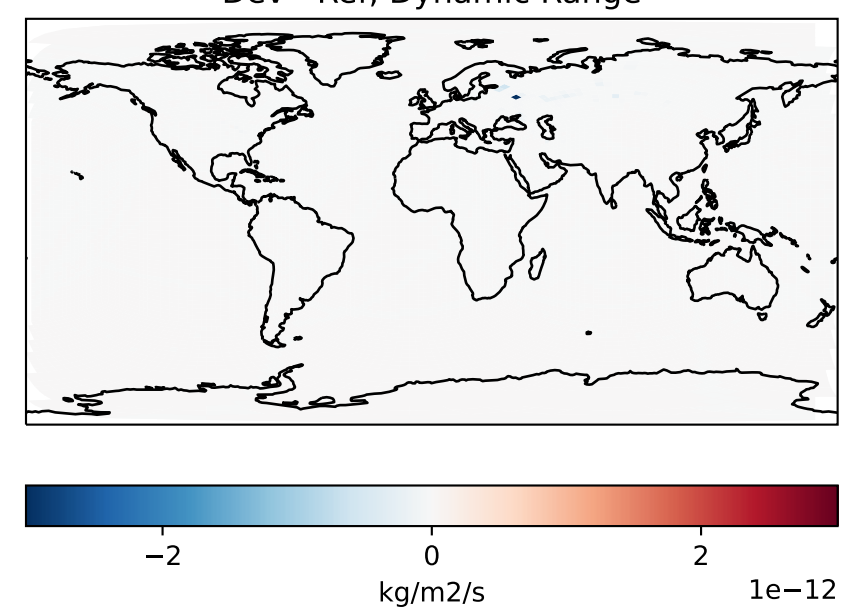
GCHP_13.3.0-rc.1 (Ref)
c48



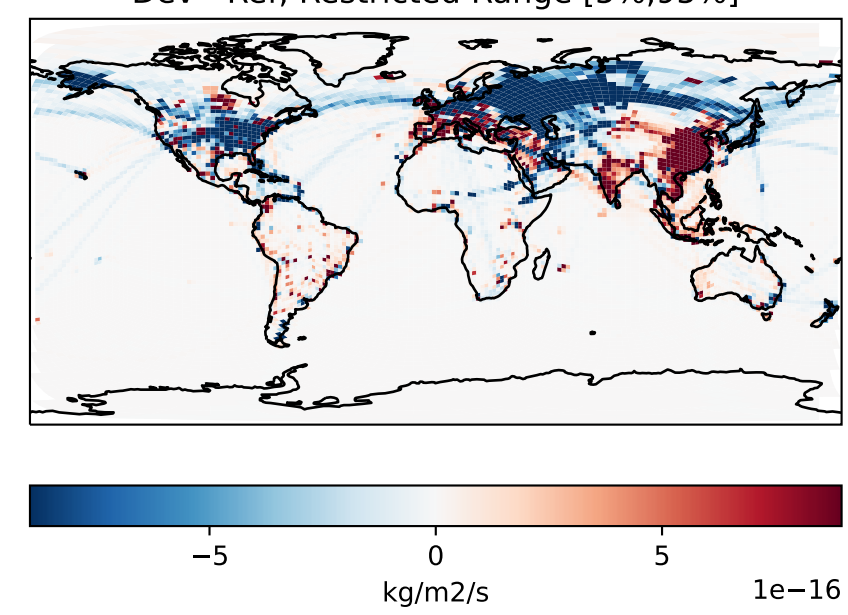
GCHP_13.4.0-rc.4 (Dev)
c48



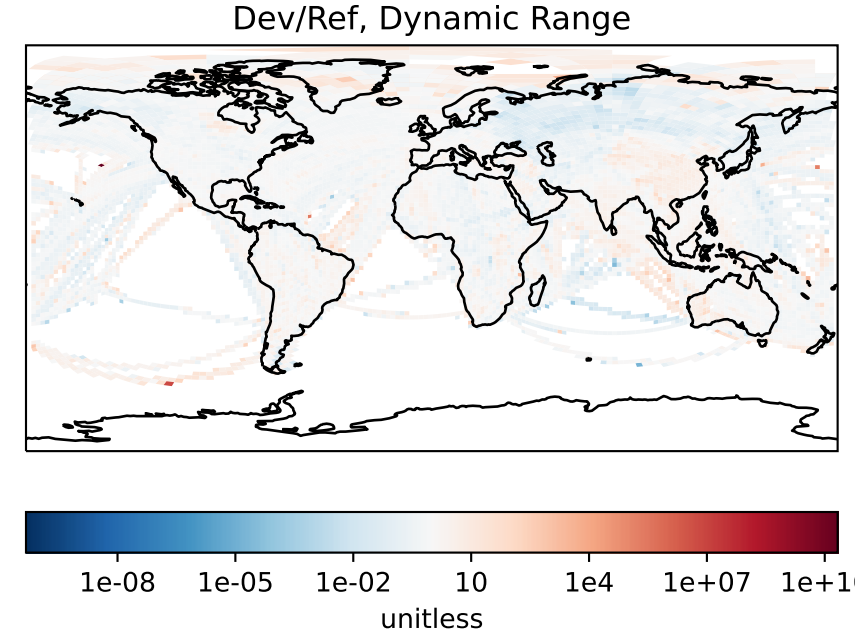
Difference
Dev - Ref, Dynamic Range



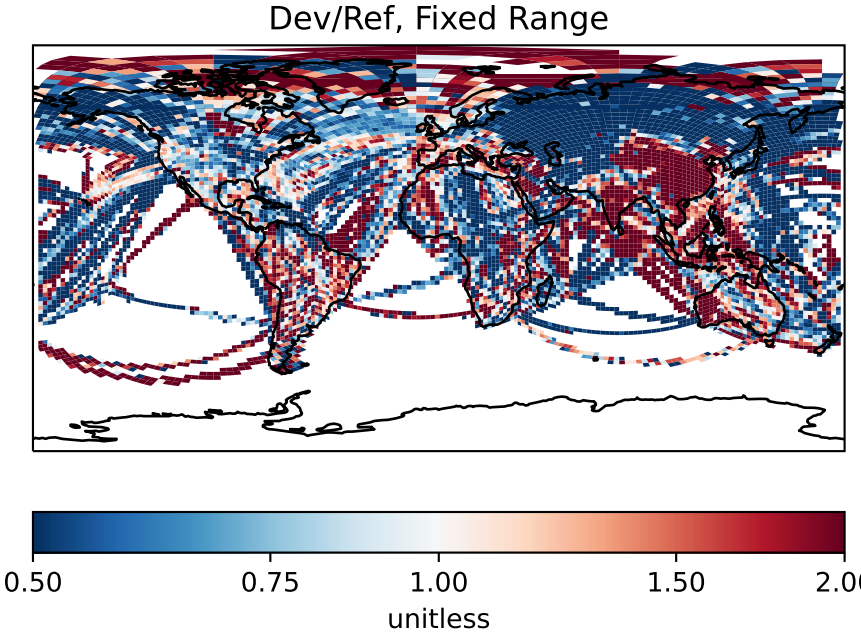
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

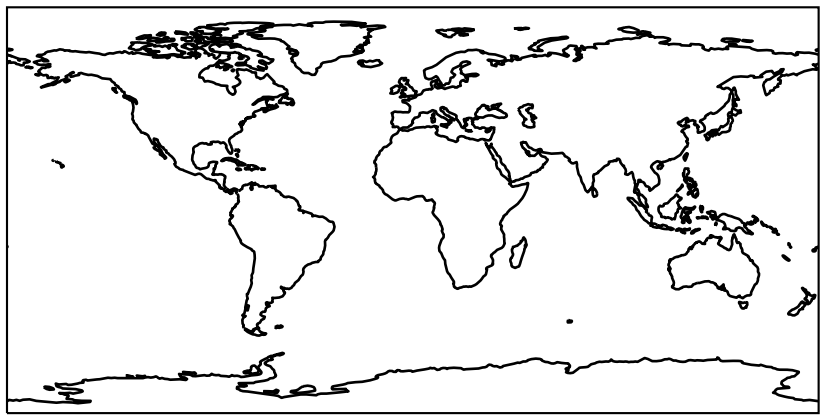


Ratio
Dev/Ref, Fixed Range



EmisNO2_Aircraft

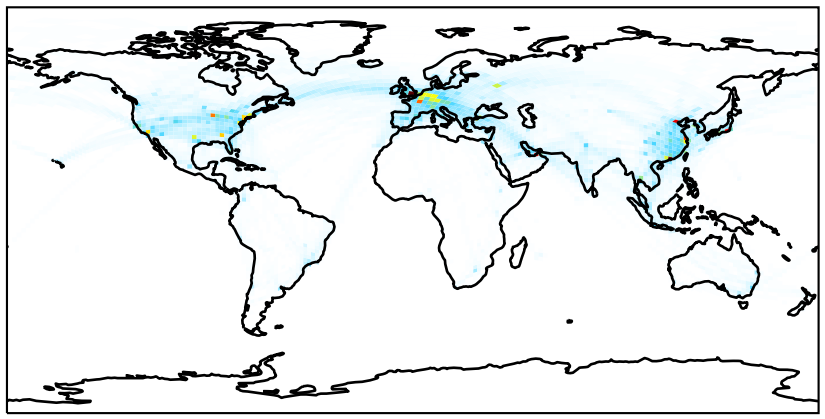
GCHP_13.3.0-rc.1 (Ref)
c48





Zero throughout domain
kg/m2/s

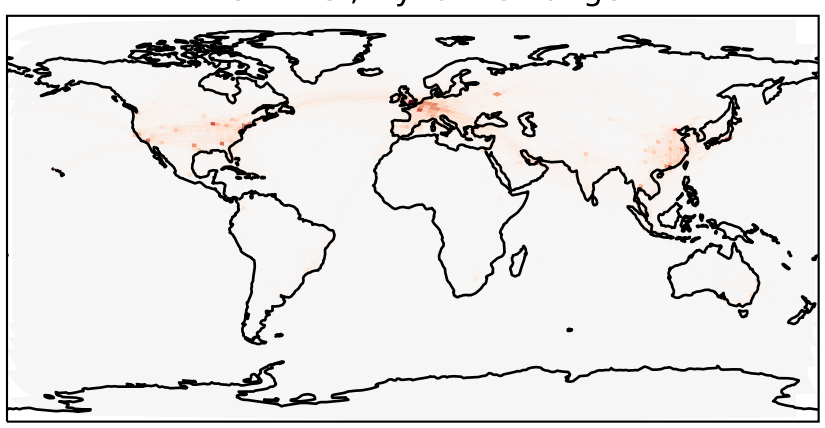
GCHP_13.4.0-rc.4 (Dev)
c48

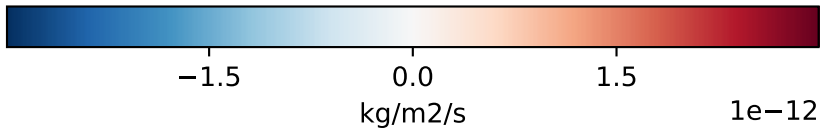




0.0 0.8 1.6 2.4
kg/m2/s
1e−12

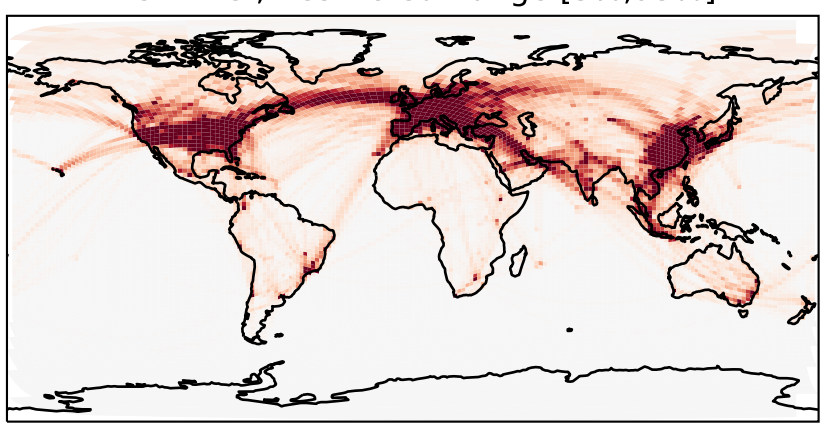
Difference
Dev - Ref, Dynamic Range

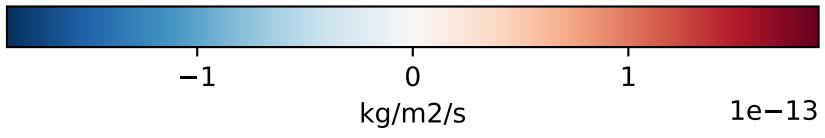




−1.5 0.0 1.5
kg/m2/s
1e−12

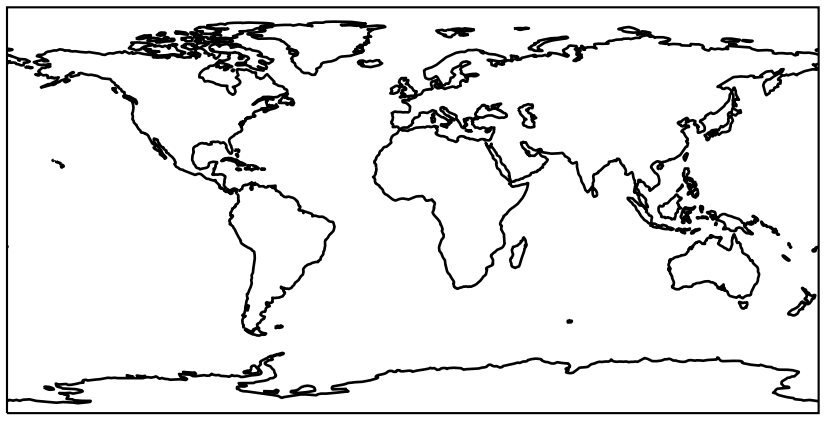
Difference
Dev - Ref, Restricted Range [5%,95%]





−1 0 1
kg/m2/s
1e−13

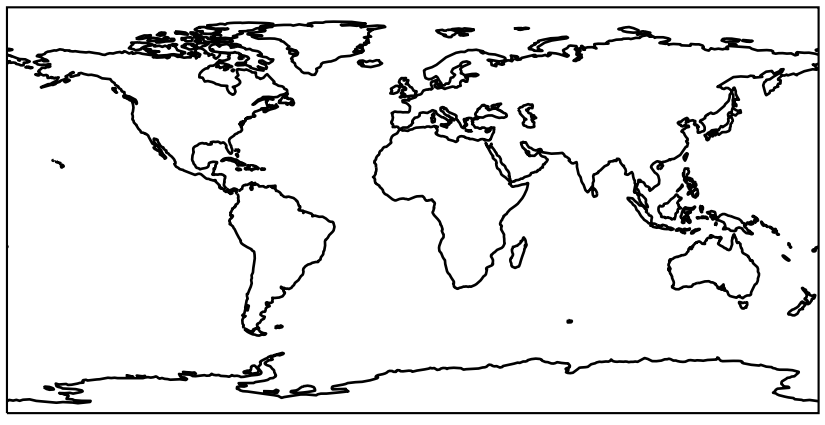
Ratio
Dev/Ref, Dynamic Range





Undefined throughout domain
unitless

Ratio
Dev/Ref, Fixed Range

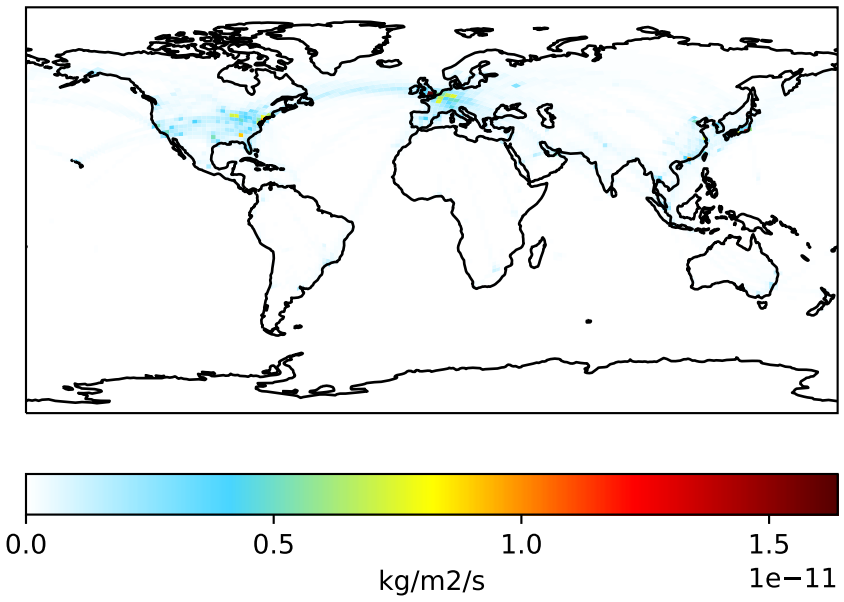




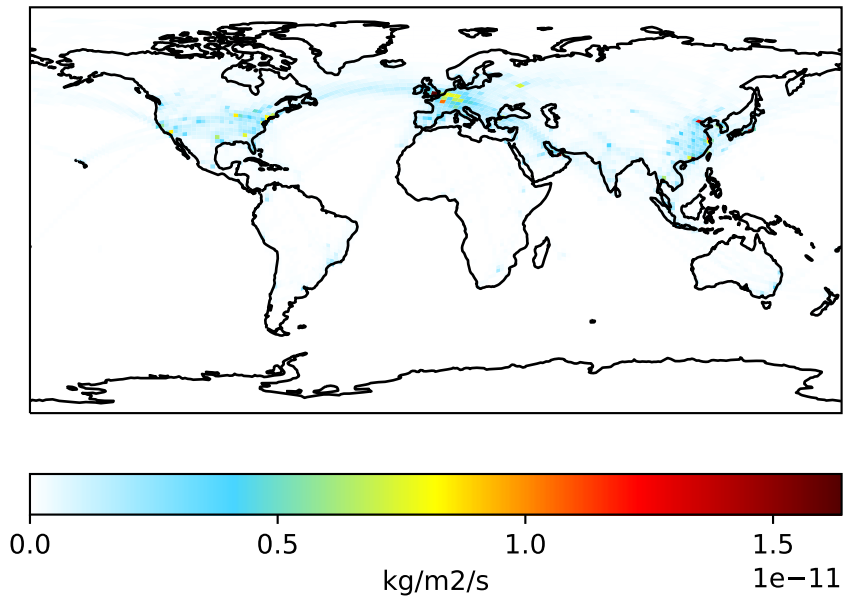
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EmisNO_Aircraft

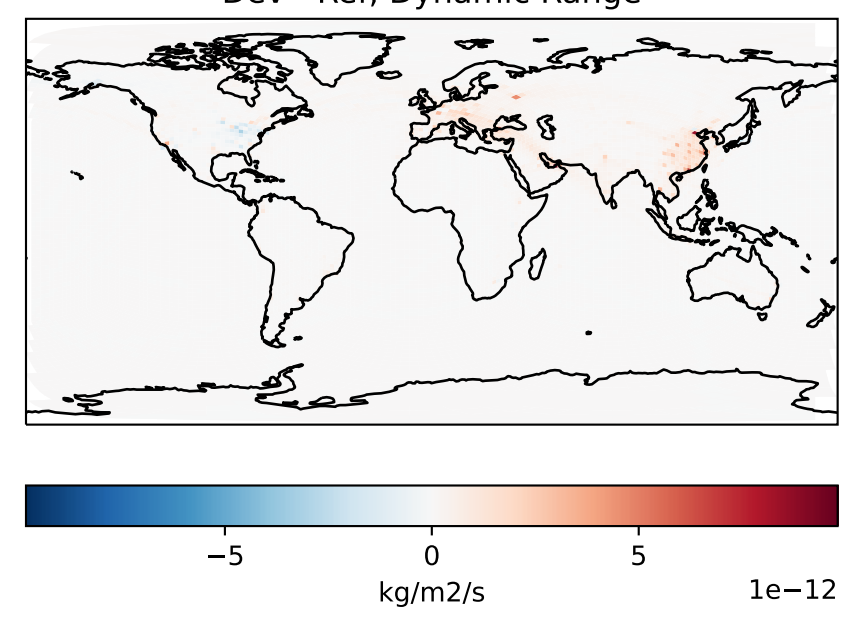
GCHP_13.3.0-rc.1 (Ref)
c48



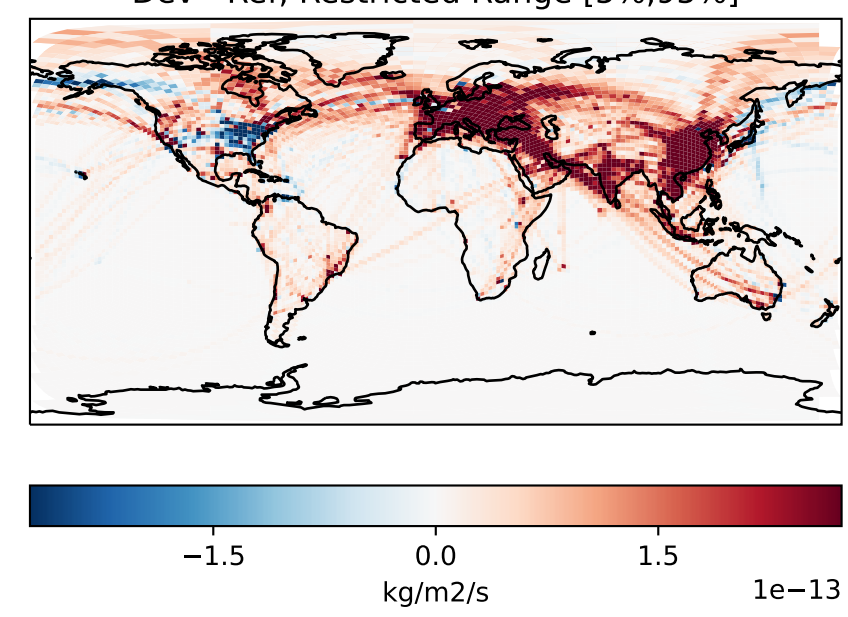
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c48



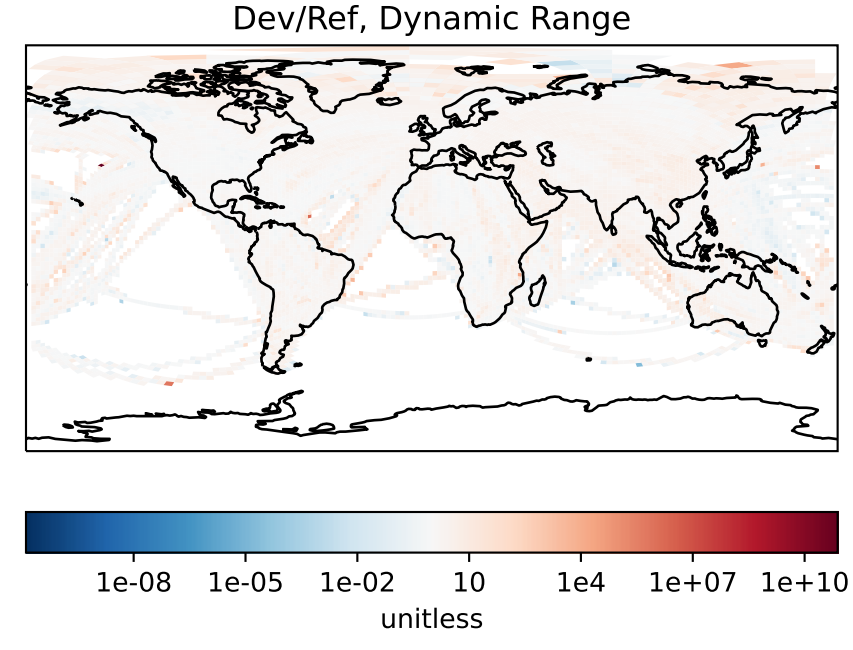
Difference
Dev - Ref, Dynamic Range



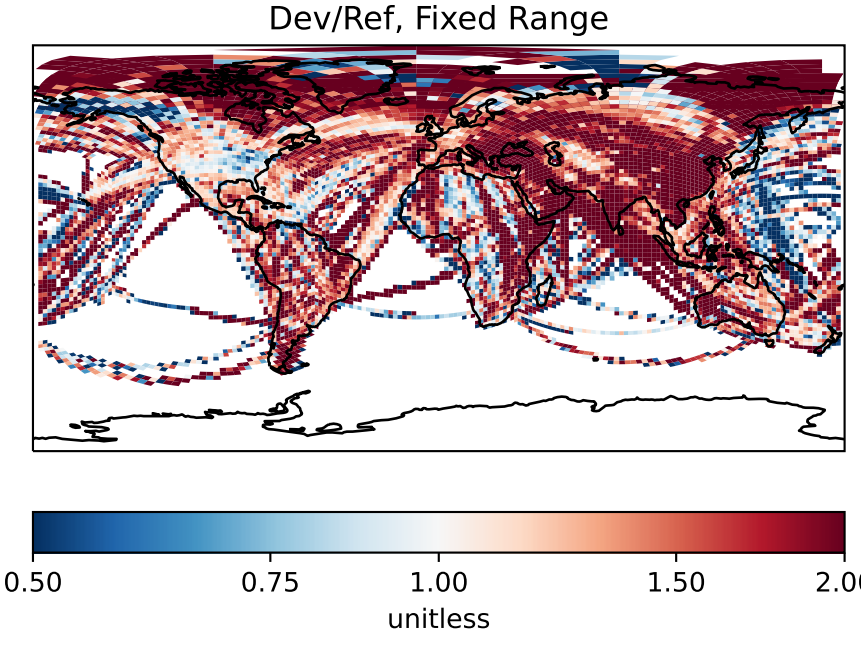
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

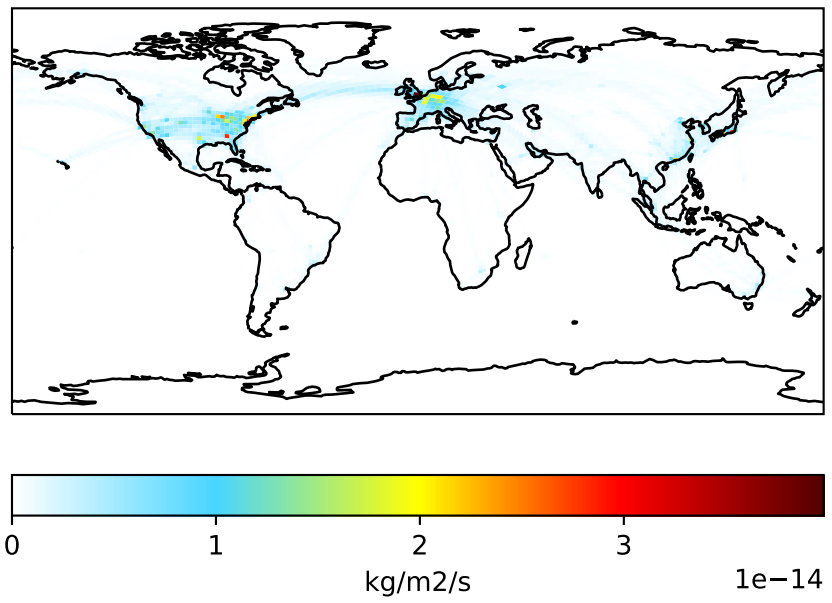


Ratio
Dev/Ref, Fixed Range

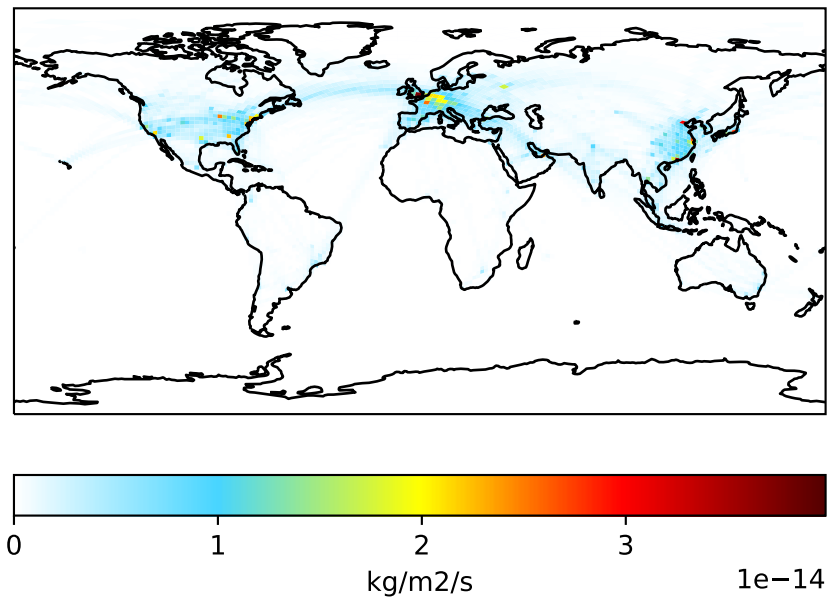


EmisOCPI_Aircraft

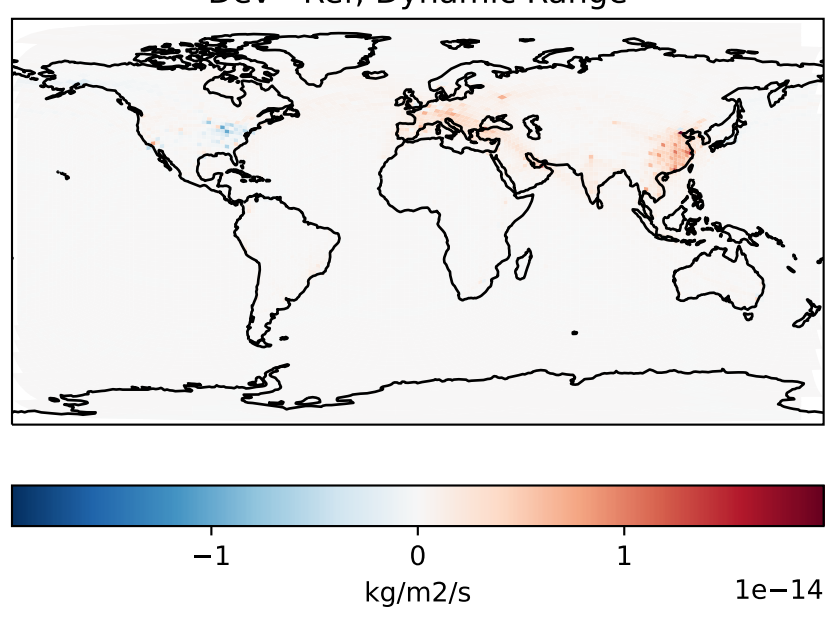
GCHP_13.3.0-rc.1 (Ref)
c48



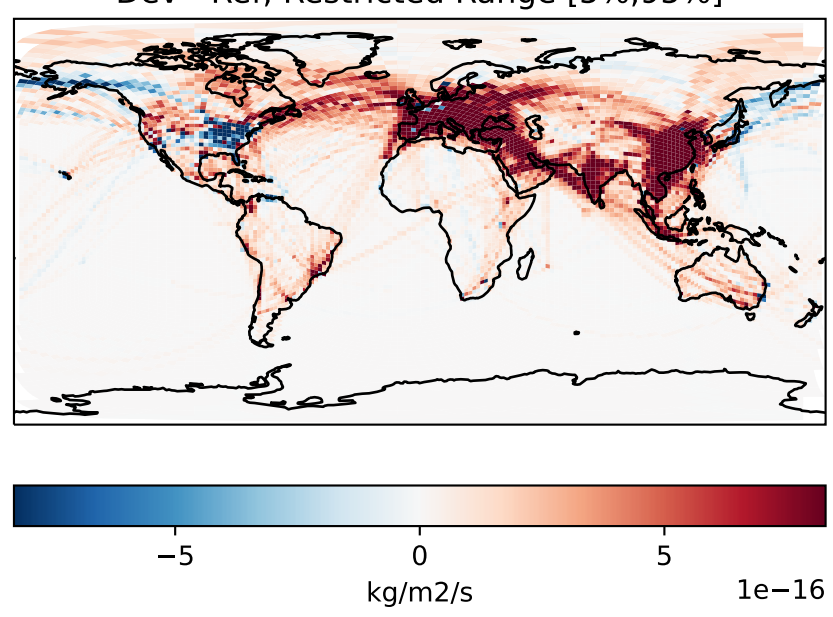
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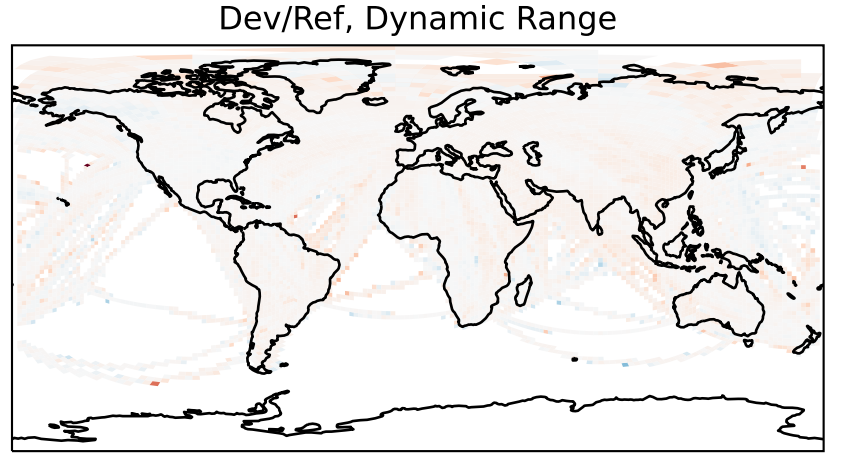
Difference
Dev - Ref, Dynamic Range



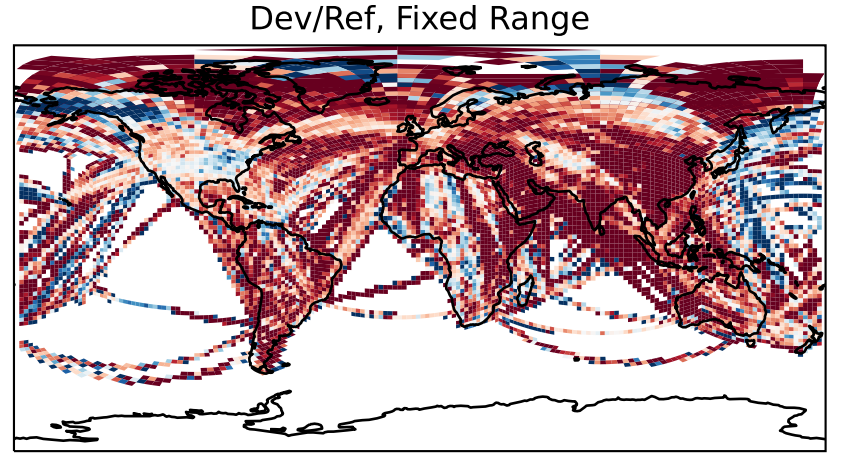
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

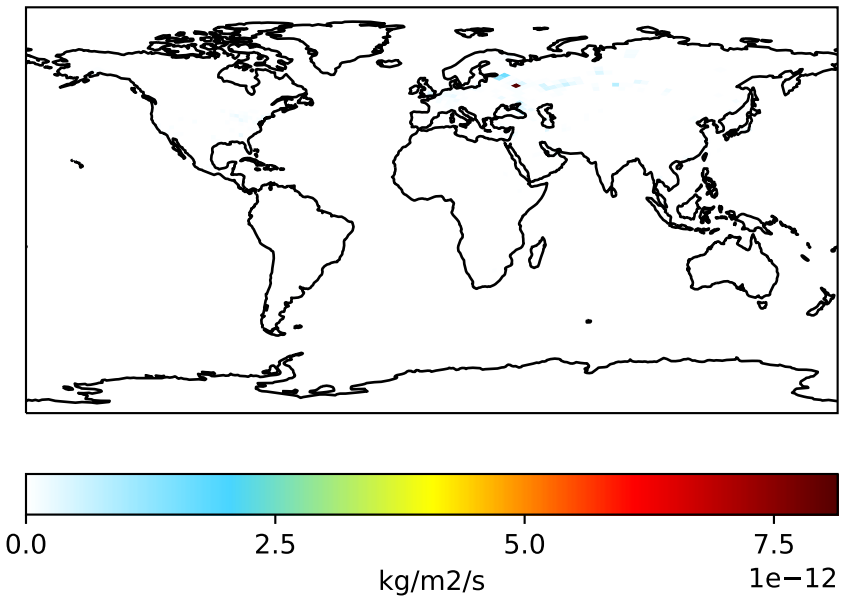


Ratio
Dev/Ref, Fixed Range

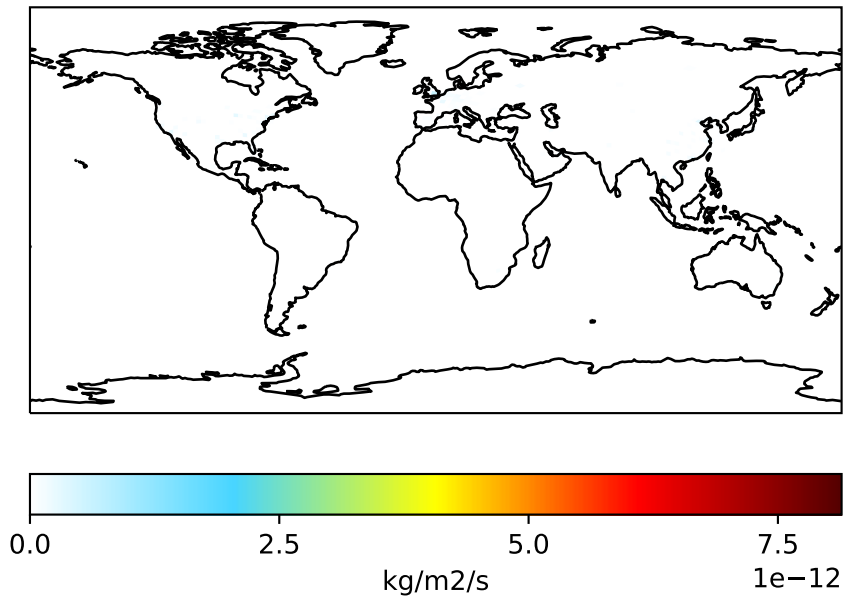


EmisPRPE_Aircraft

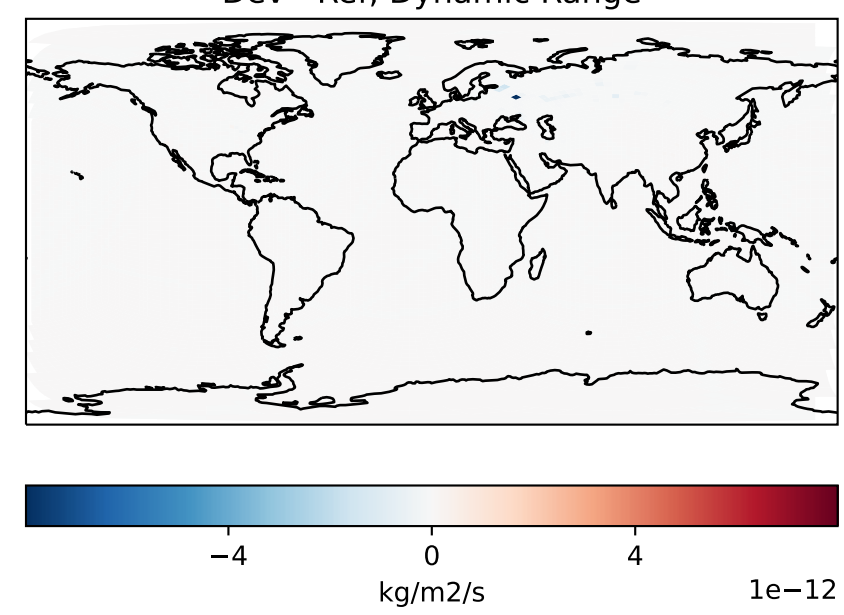
GCHP_13.3.0-rc.1 (Ref)
c48



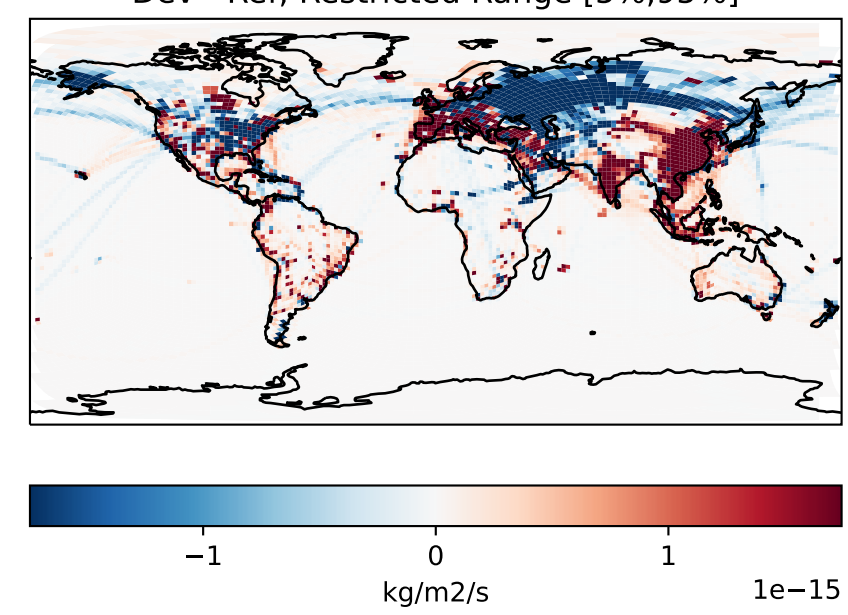
GCHP_13.4.0-rc.4 (Dev)
c48



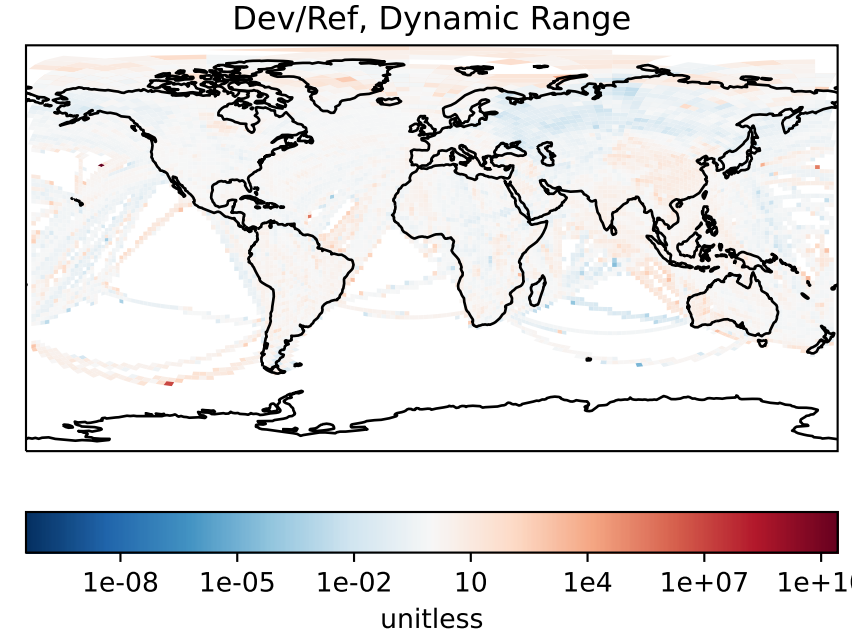
Difference
Dev - Ref, Dynamic Range



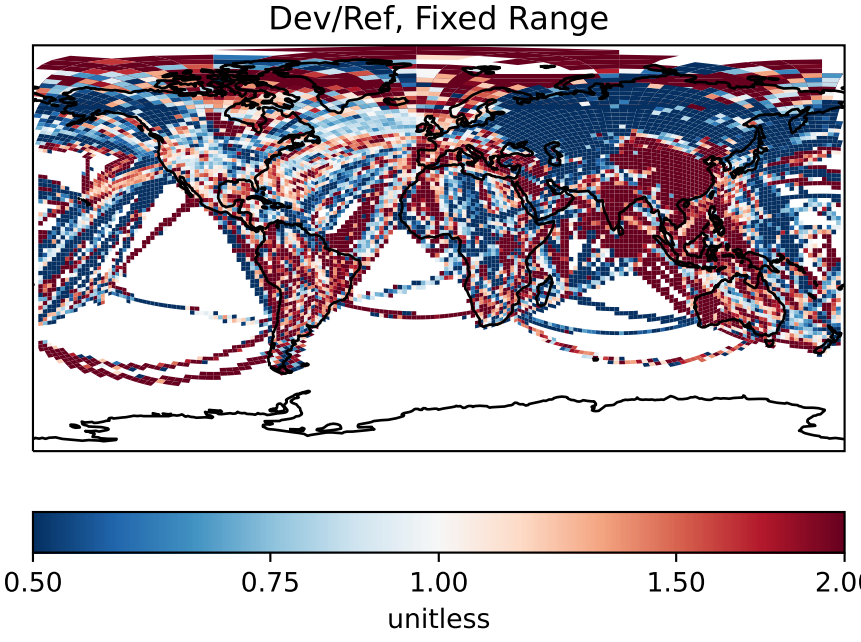
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

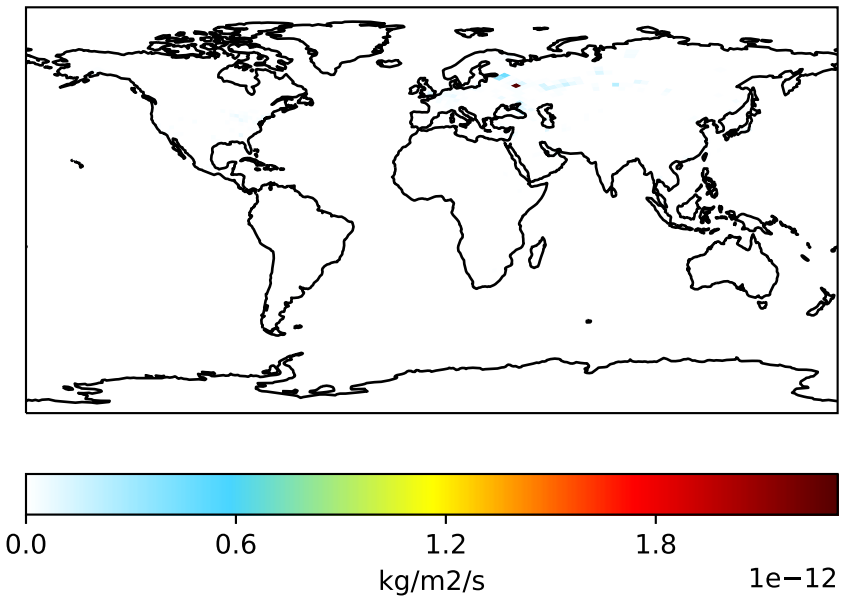


Ratio
Dev/Ref, Fixed Range

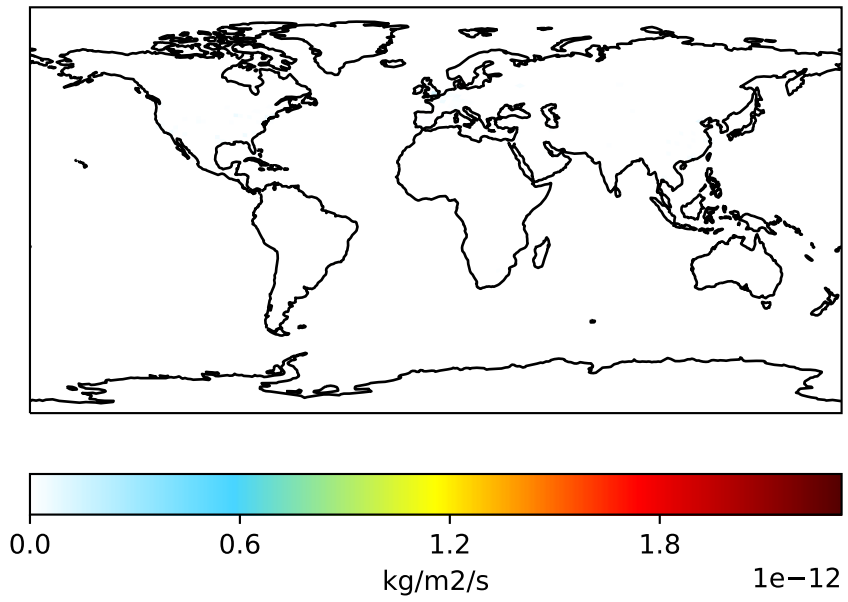


EmisRCHO_Aircraft

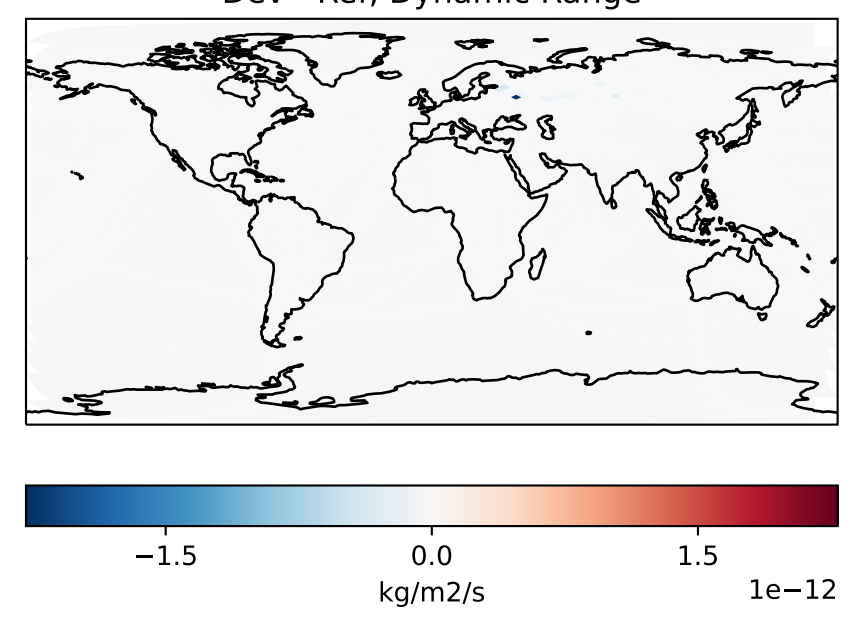
GCHP_13.3.0-rc.1 (Ref)
c48



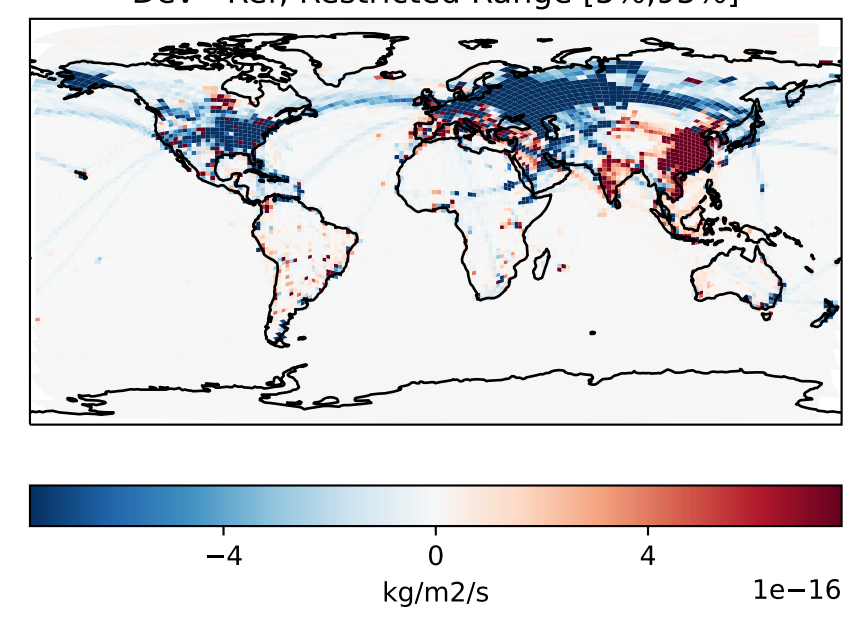
GCHP_13.4.0-rc.4 (Dev)
c48



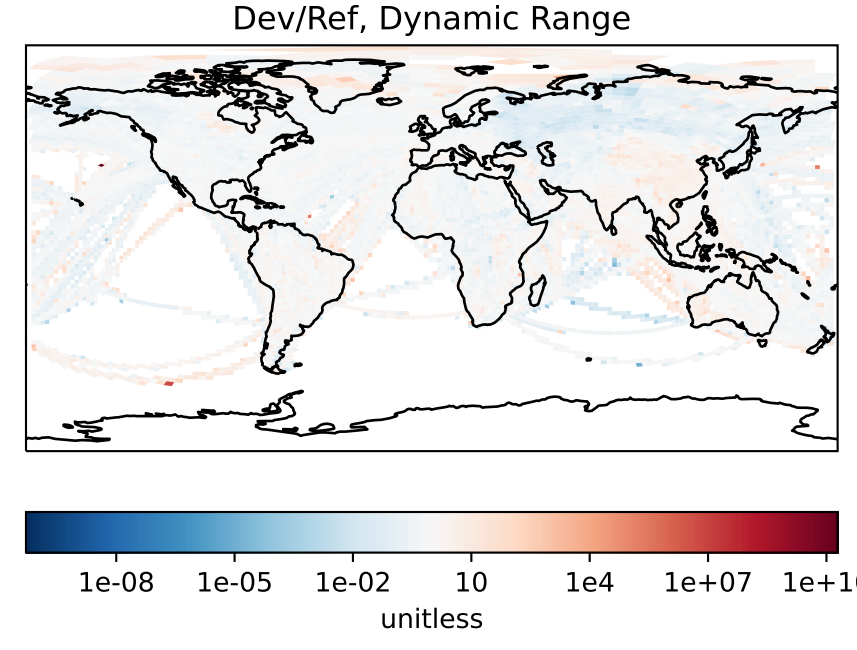
Difference
Dev - Ref, Dynamic Range



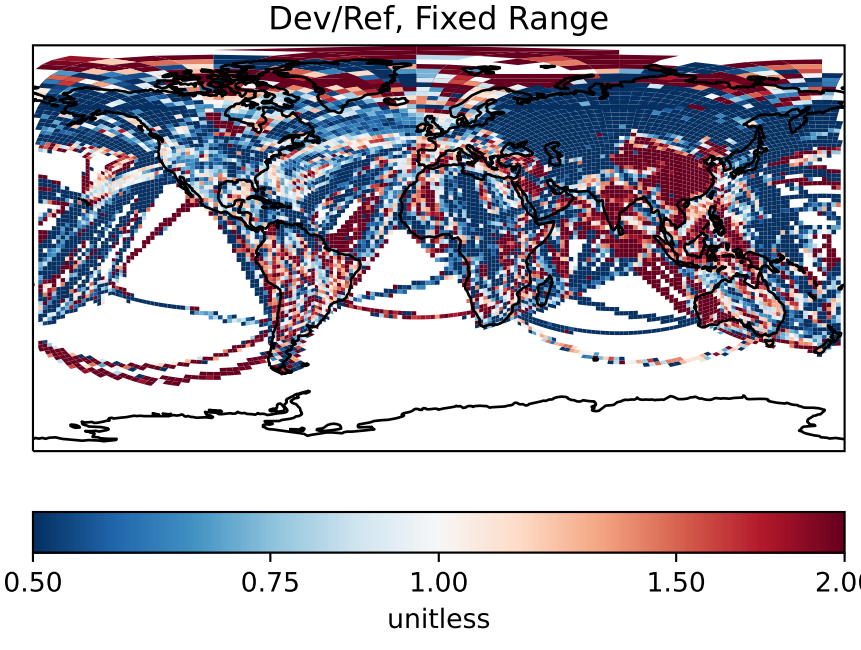
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

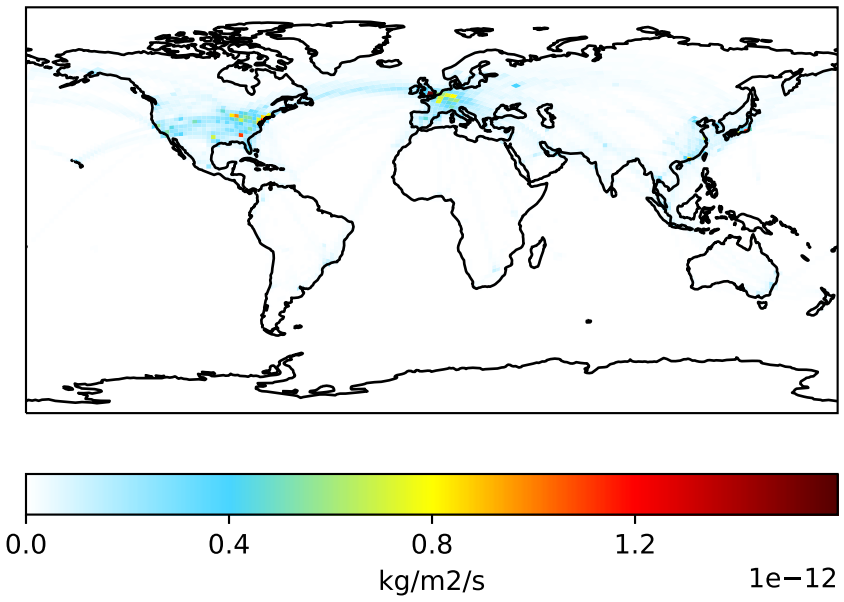


Ratio
Dev/Ref, Fixed Range

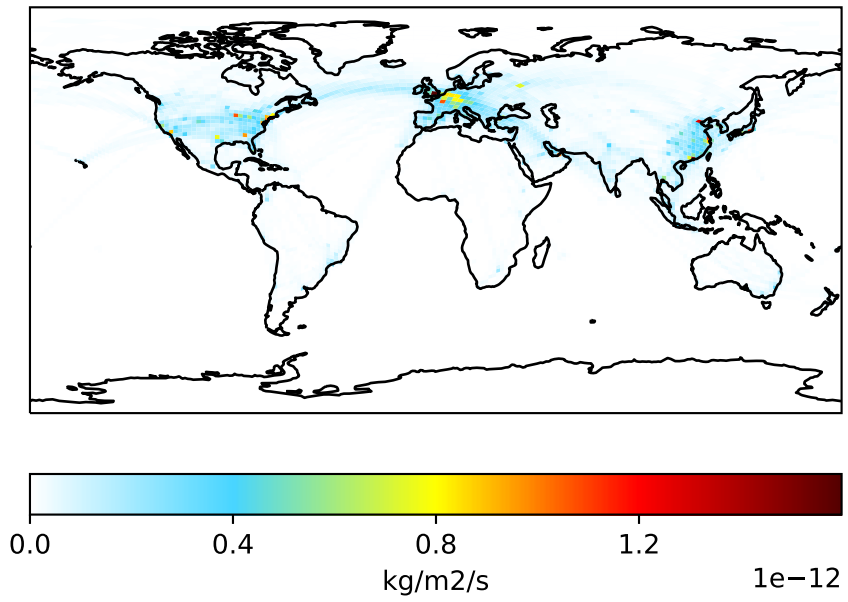


EmisSO2_Aircraft

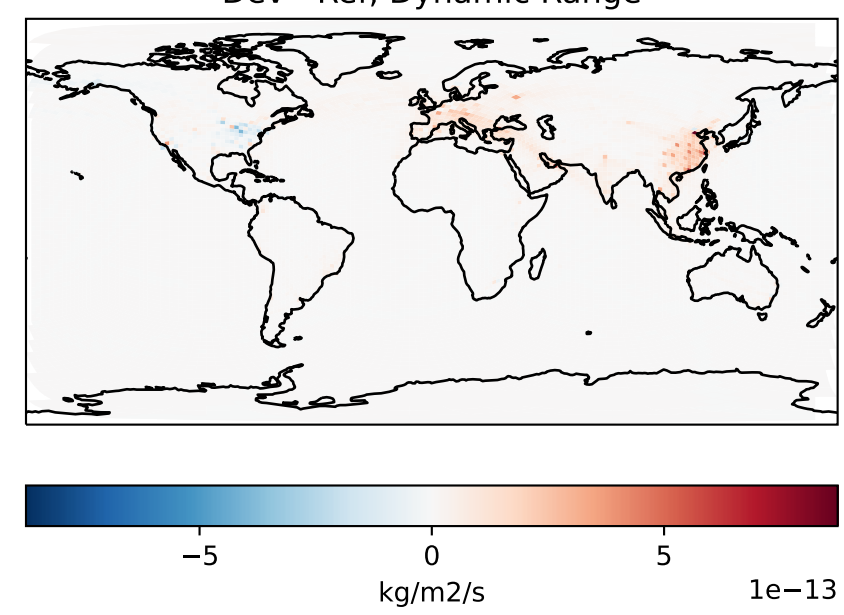
GCHP_13.3.0-rc.1 (Ref)
c48



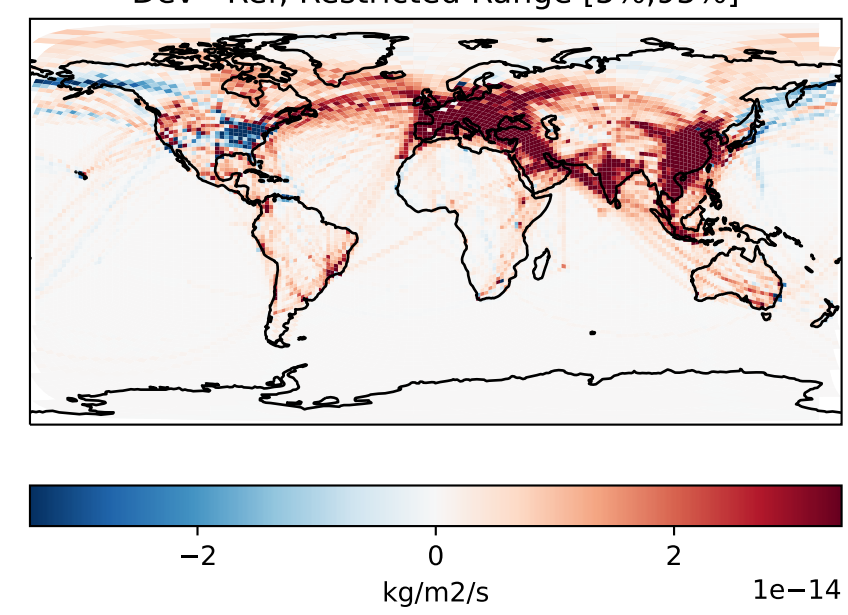
GCHP_13.4.0-rc.4 (Dev)
c48



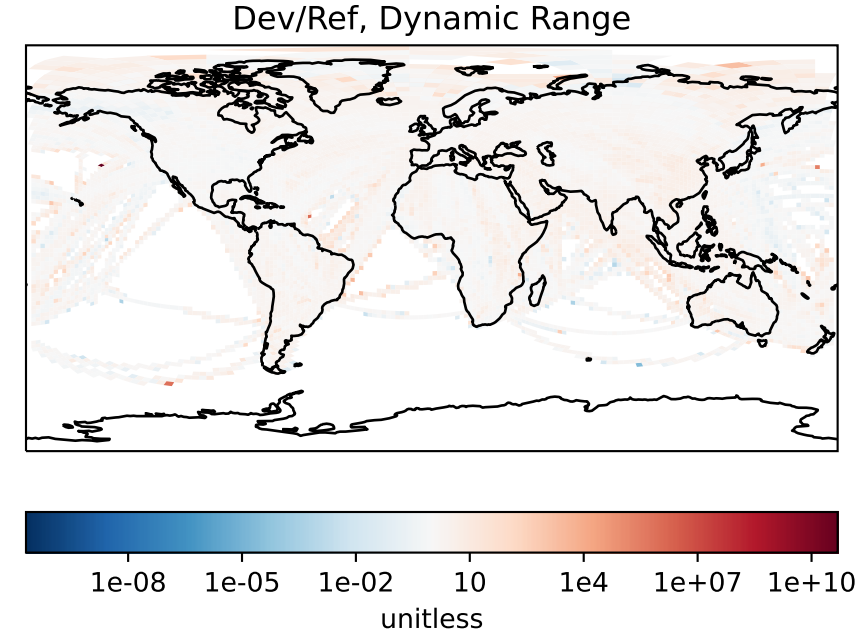
Difference
Dev - Ref, Dynamic Range



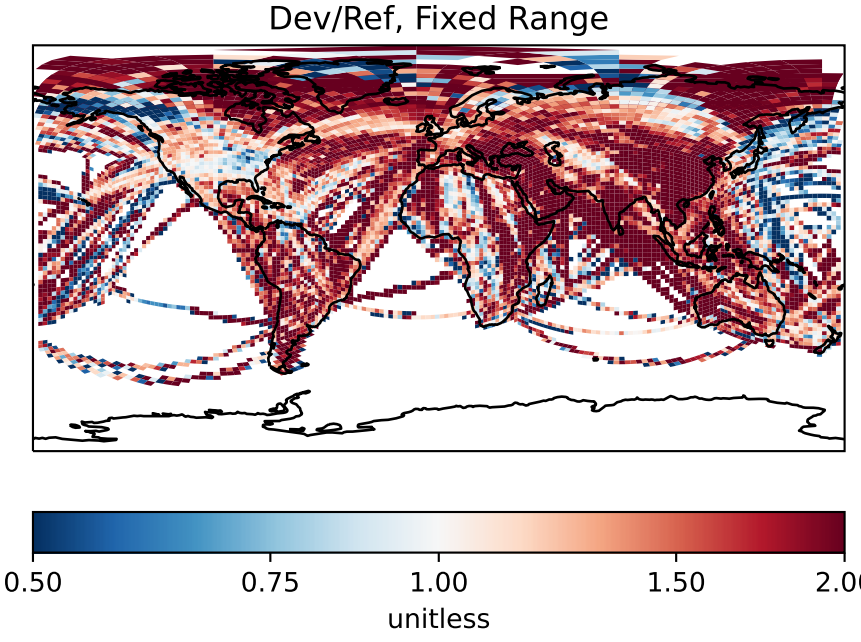
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

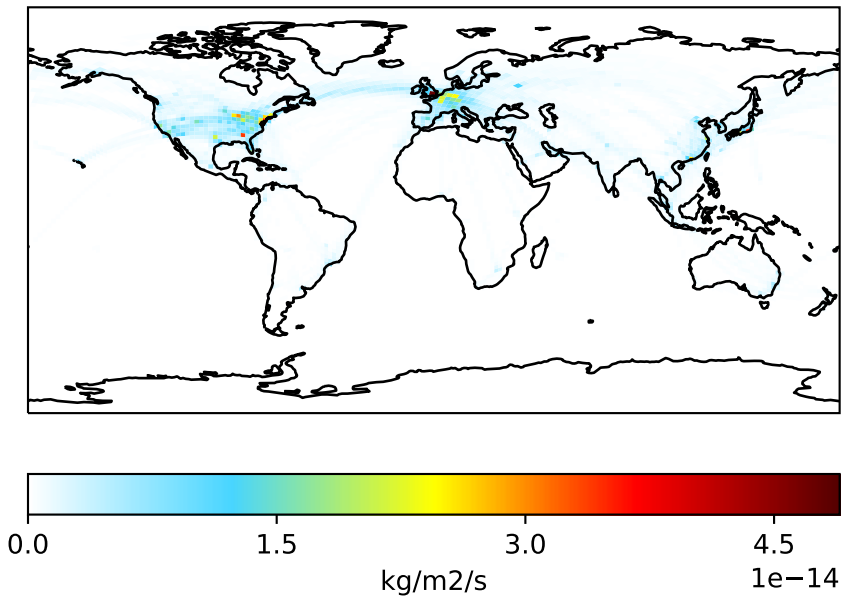


Ratio
Dev/Ref, Fixed Range

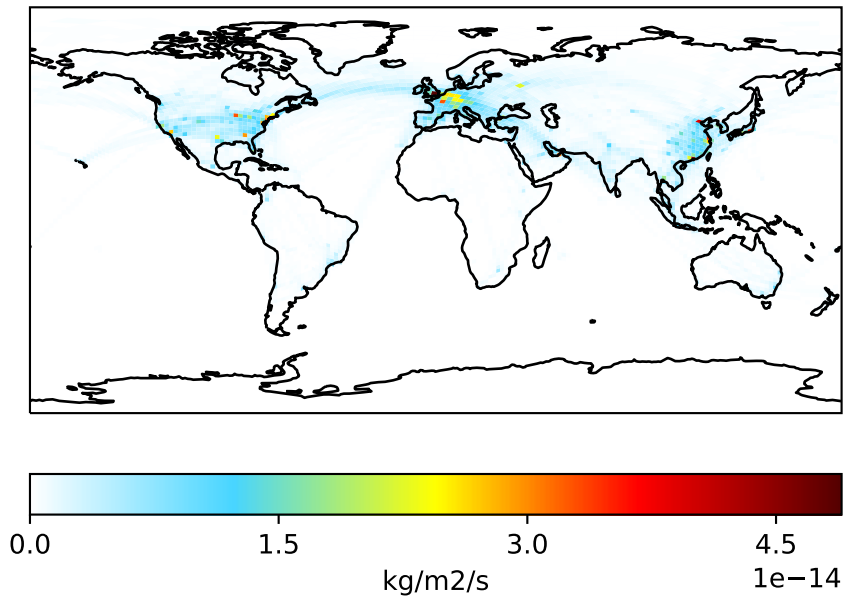


EmisSO4_Aircraft

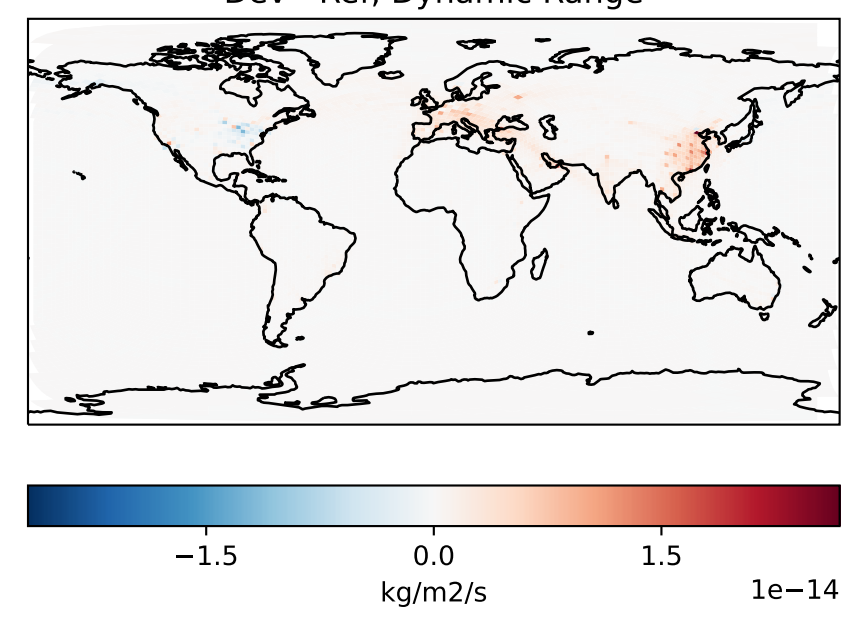
GCHP_13.3.0-rc.1 (Ref)
c48



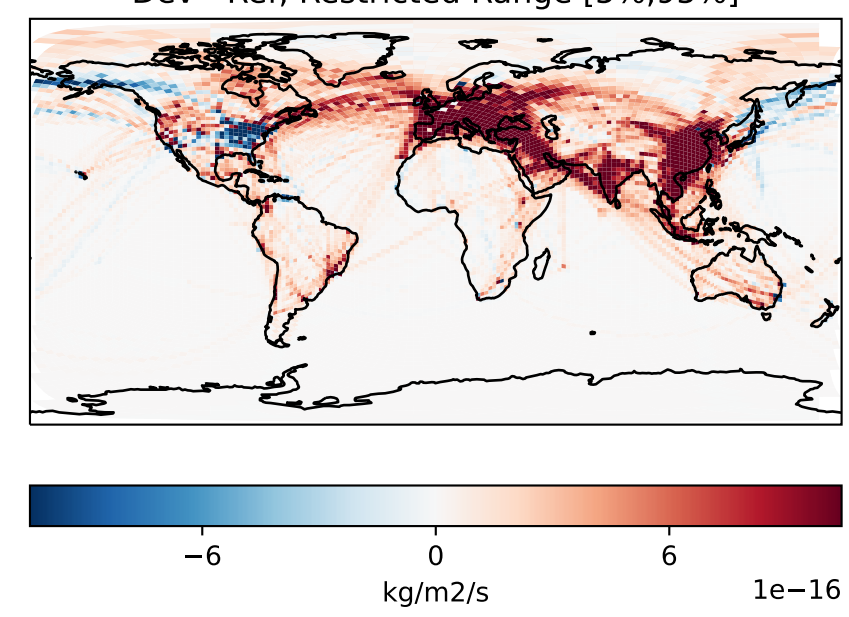
GCHP_13.4.0-rc.4 (Dev)
c48



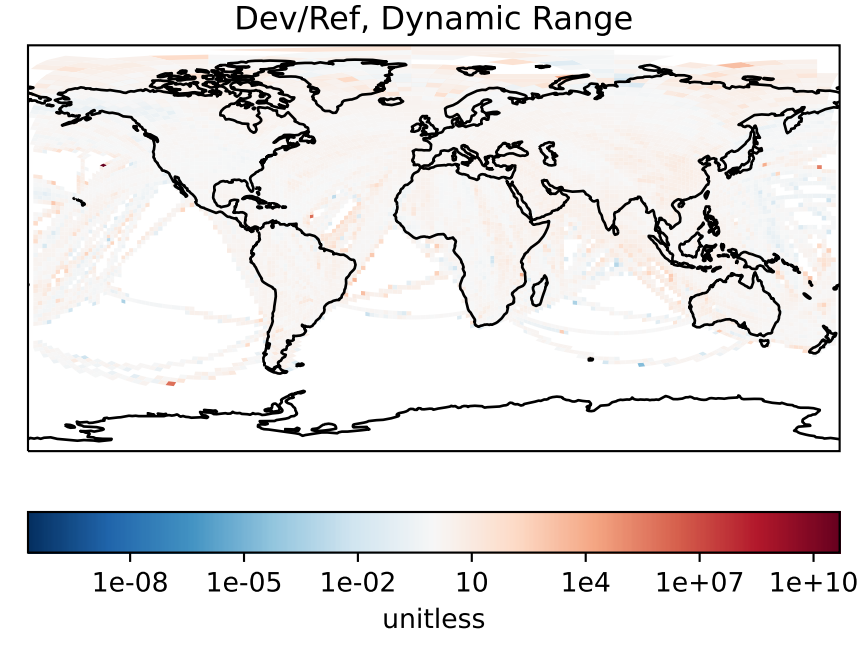
Difference
Dev - Ref, Dynamic Range



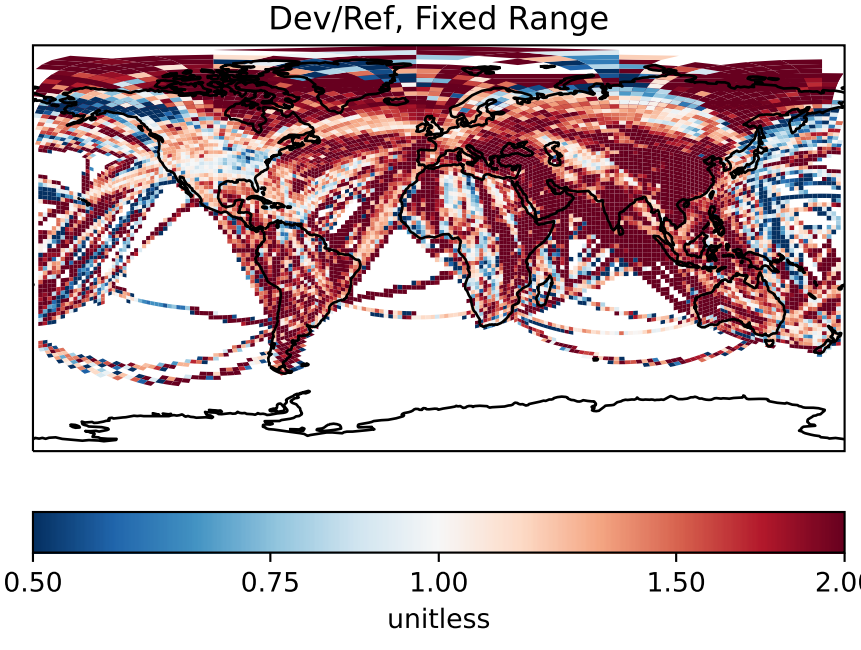
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

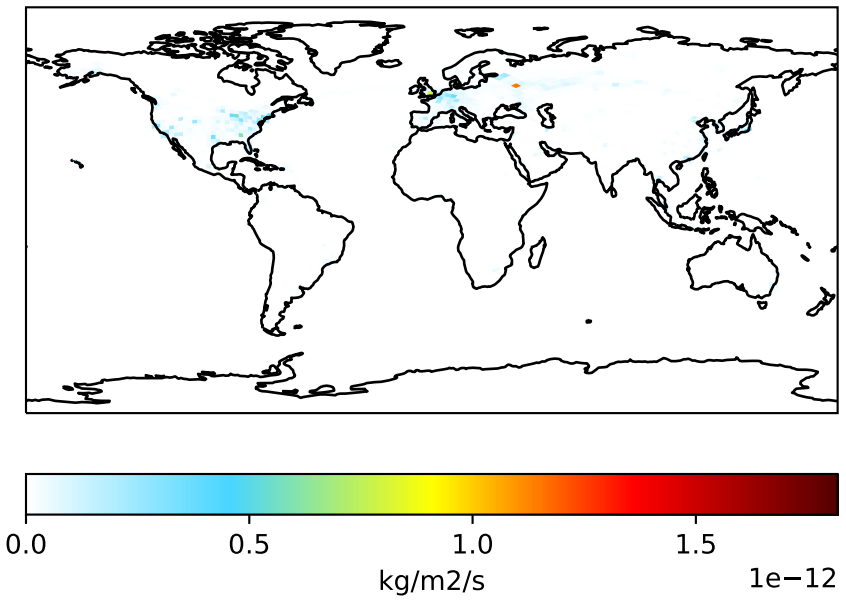


Ratio
Dev/Ref, Fixed Range

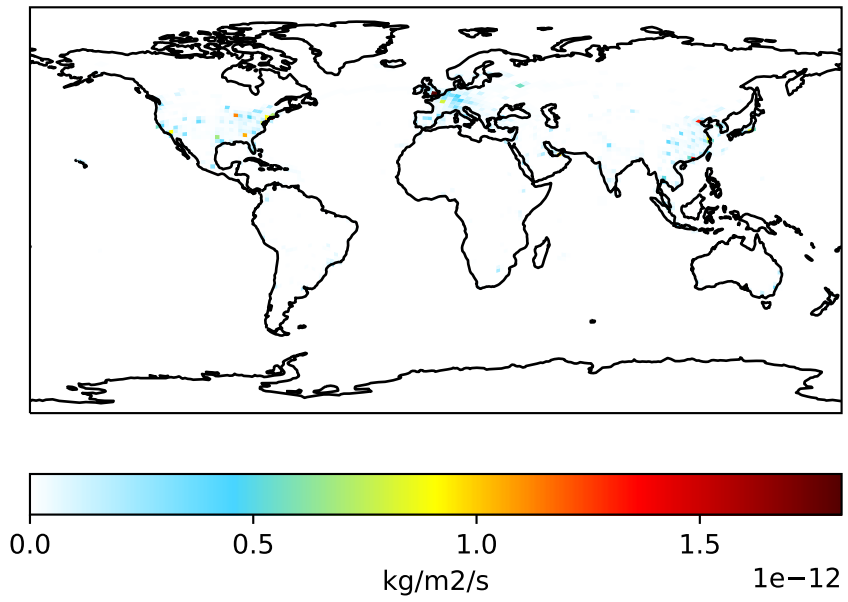


EmisSOAP_Aircraft

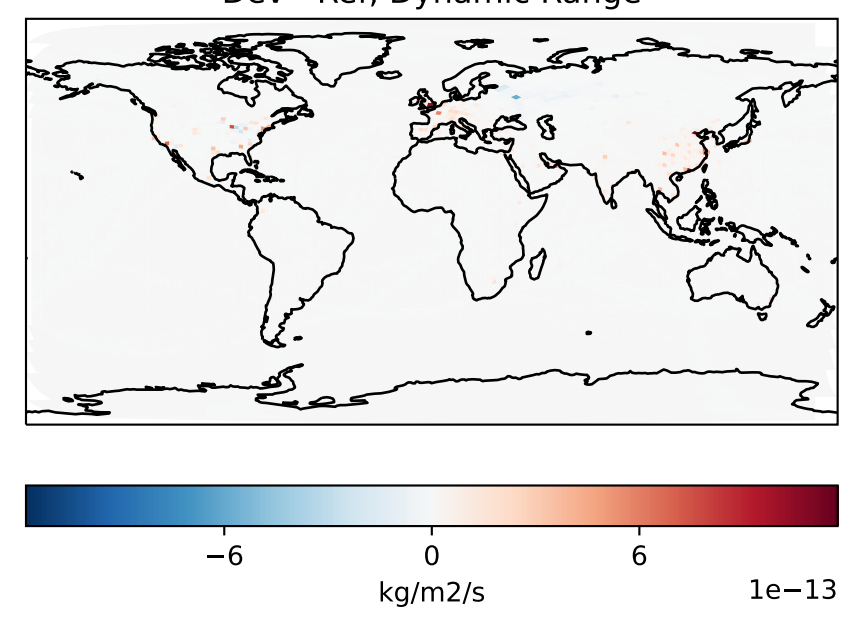
GCHP_13.3.0-rc.1 (Ref)
c48



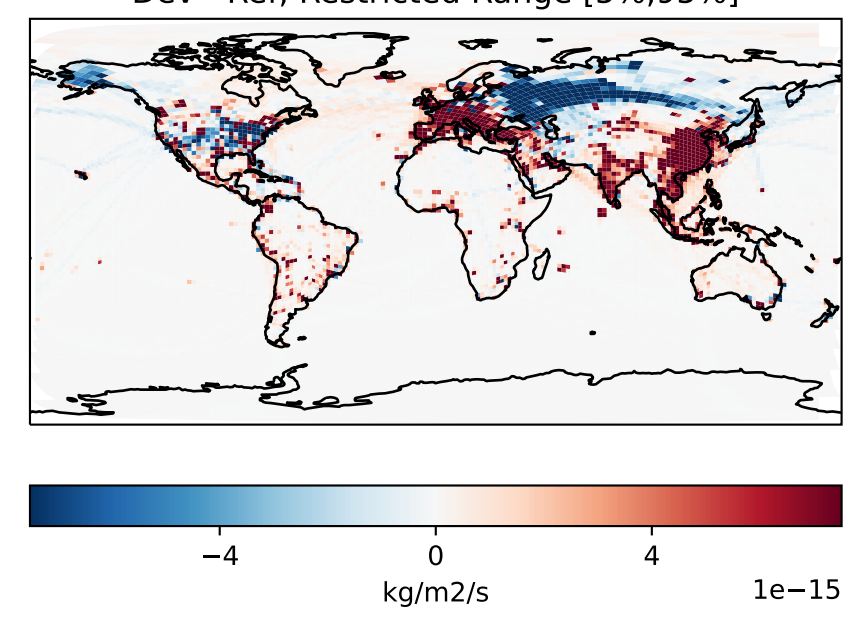
GCHP_13.4.0-rc.4 (Dev)
c48



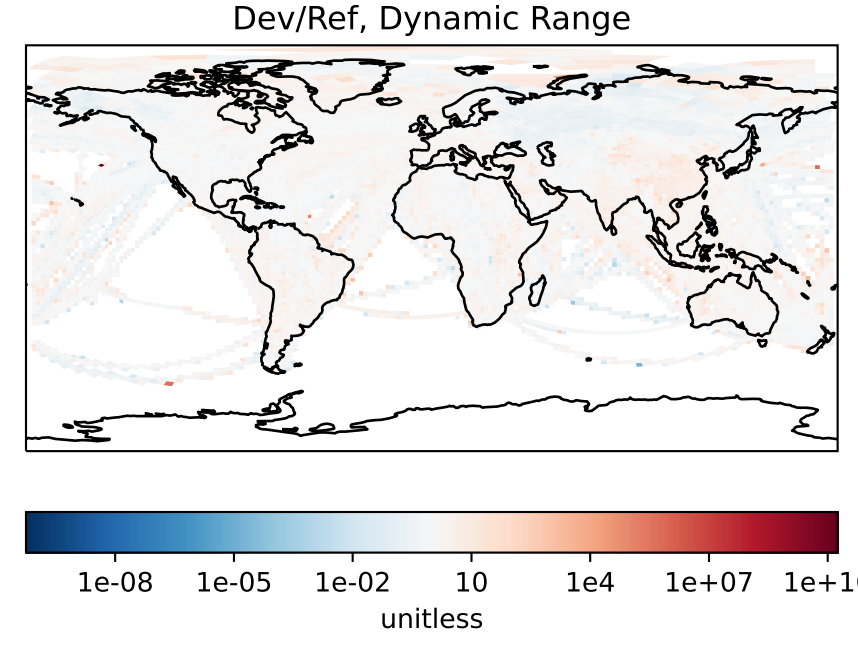
Difference
Dev - Ref, Dynamic Range



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



Ratio
Dev/Ref, Dynamic Range



Ratio
Dev/Ref, Fixed Range

