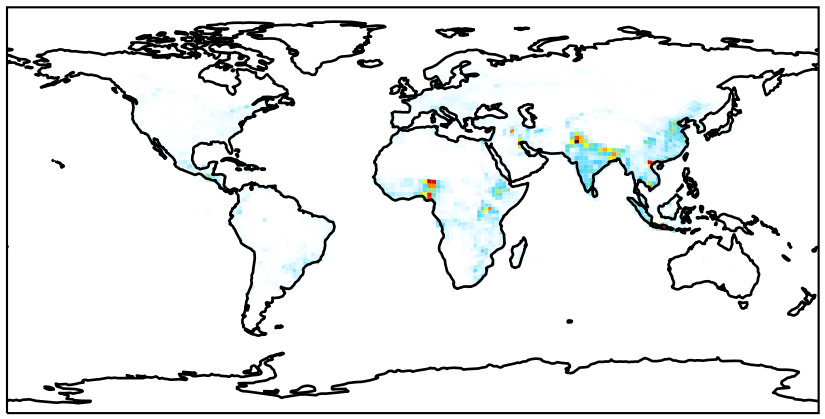
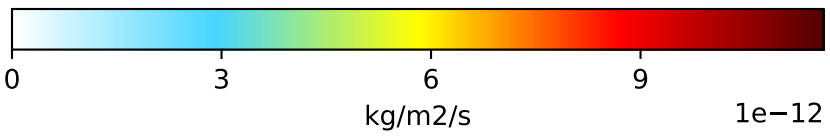
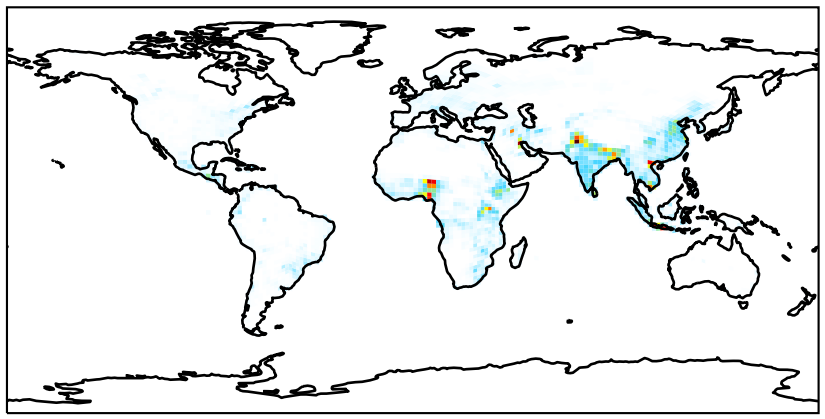
# EmisALD2_Anthro (Apr2019)

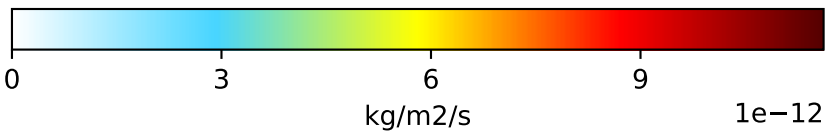
GCHP_13.2.0 (Ref)
c48



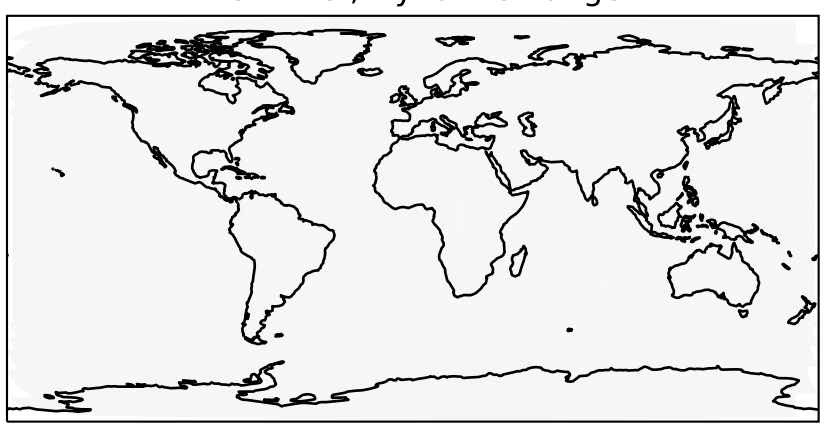



GCHP_13.2.0-LuoWetdep (Dev)
c48

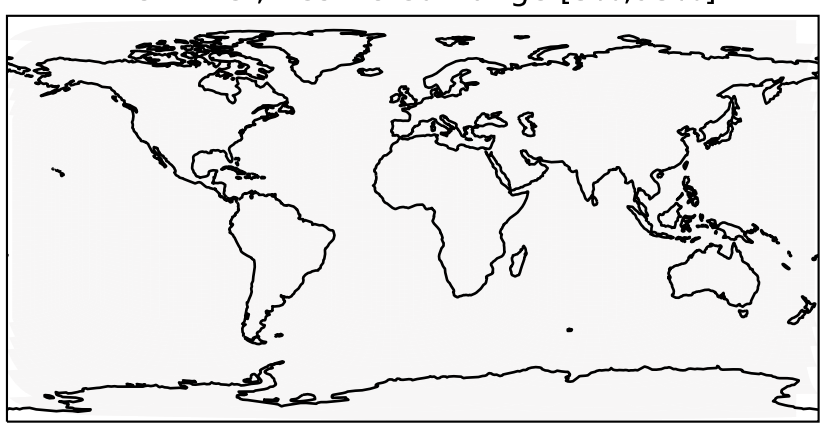




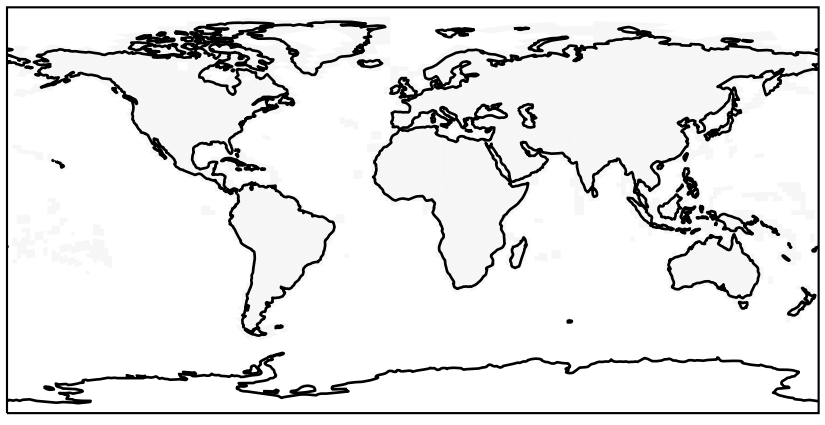

Difference
Dev - Ref, Dynamic Range



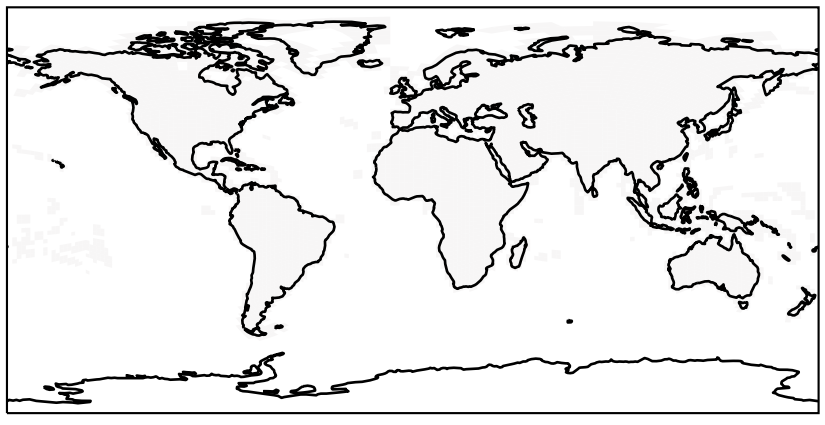
Difference
Dev - Ref, Restricted Range [5%,95%]

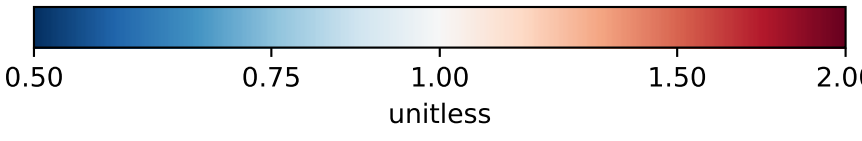


Ratio
Dev/Ref, Dynamic Range



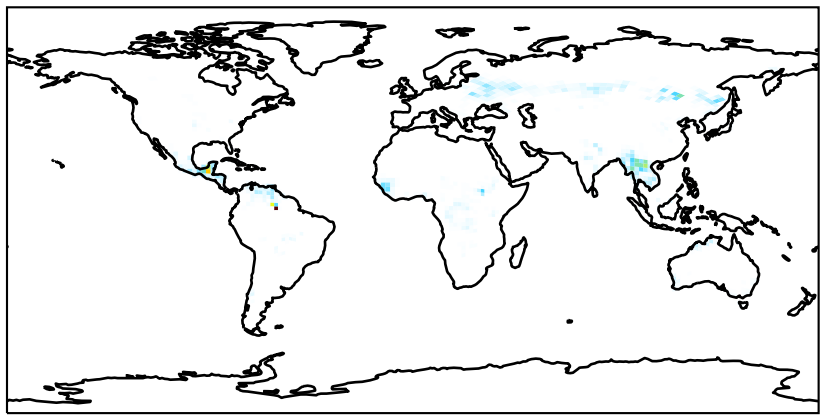
Ratio
Dev/Ref, Fixed Range

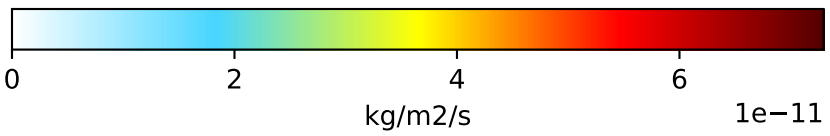




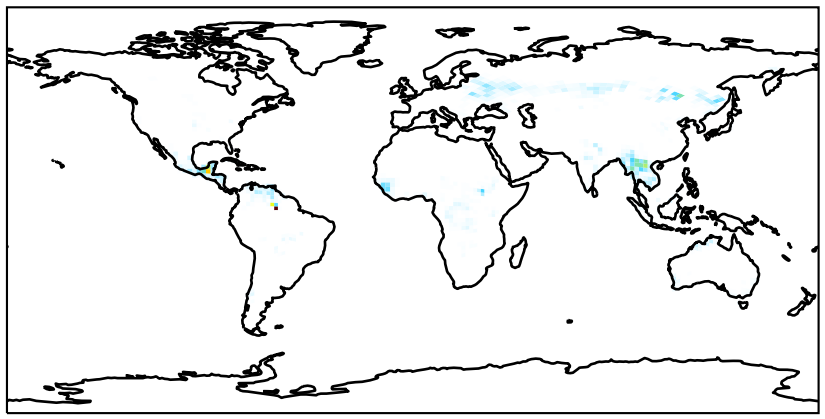
# EmisALD2_BioBurn (Apr2019)

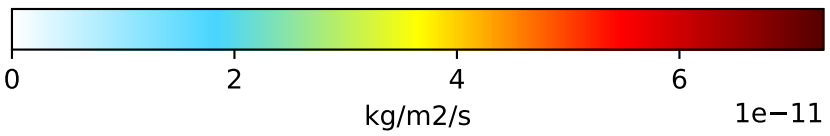
GCHP_13.2.0 (Ref)
c48



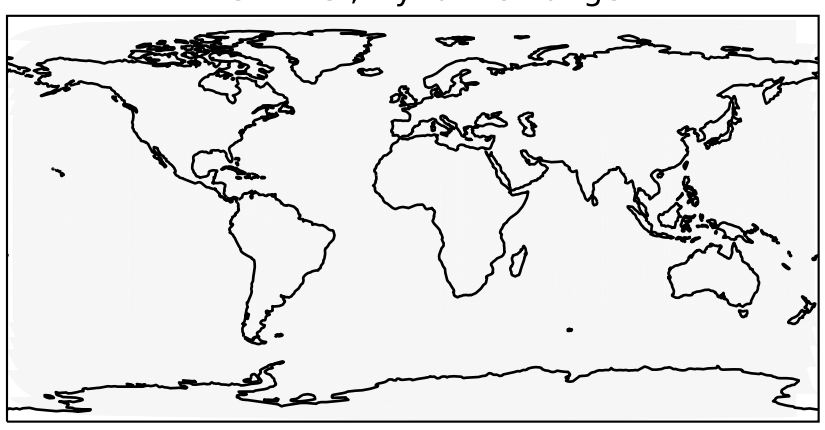


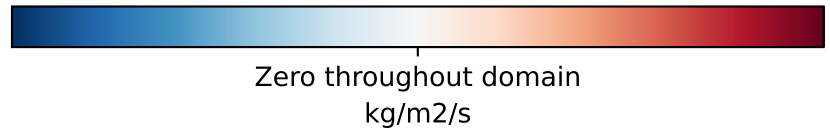

GCHP_13.2.0-LuoWetdep (Dev)
c48



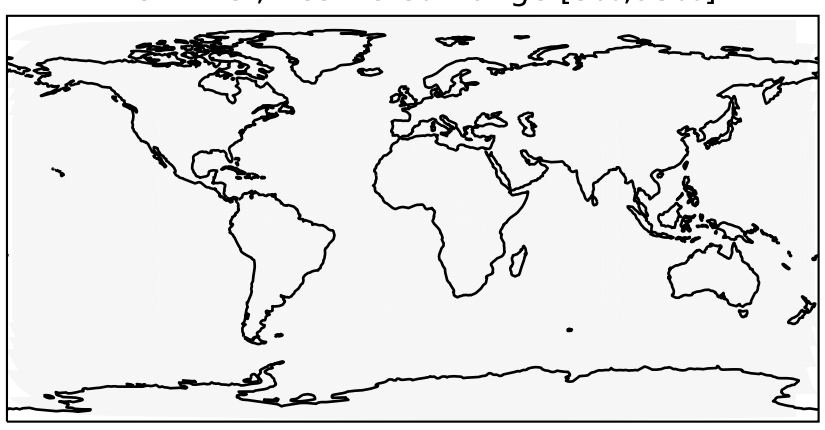


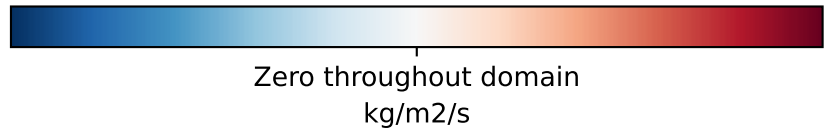

Difference
Dev - Ref, Dynamic Range



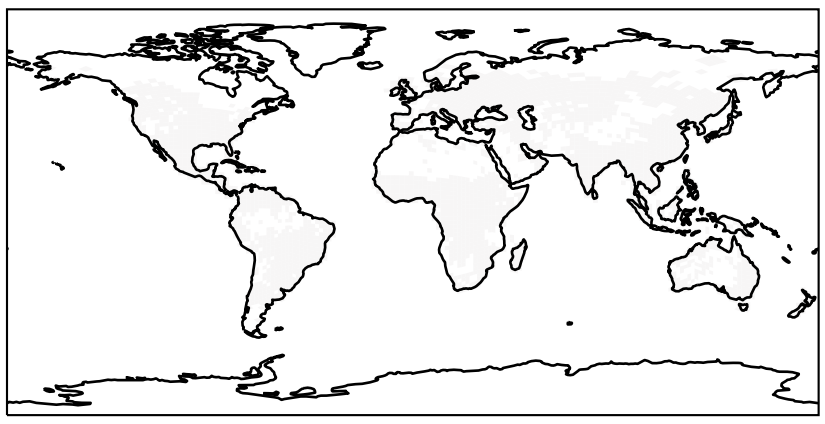


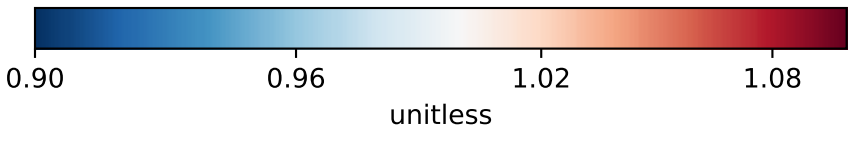

Difference
Dev - Ref, Restricted Range [5%,95%]



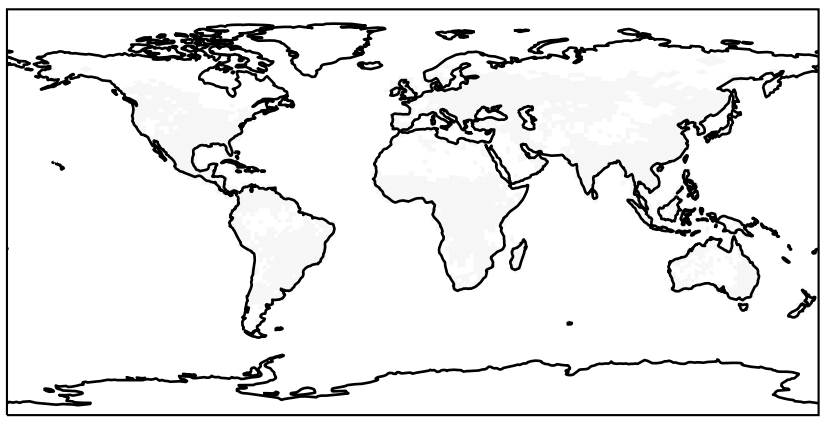


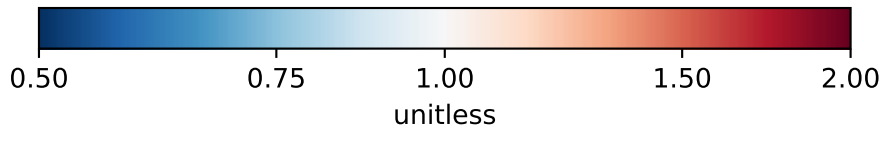

Ratio
Dev/Ref, Dynamic Range





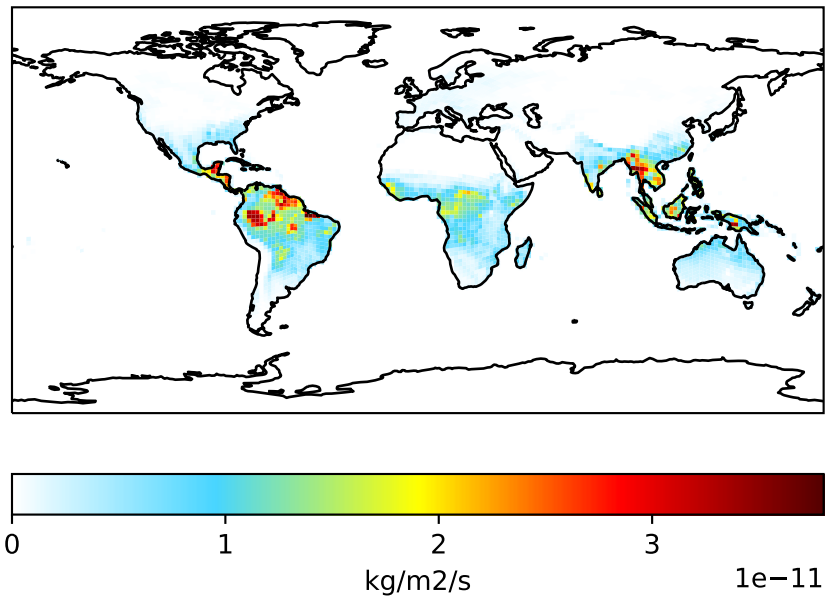

Ratio
Dev/Ref, Fixed Range



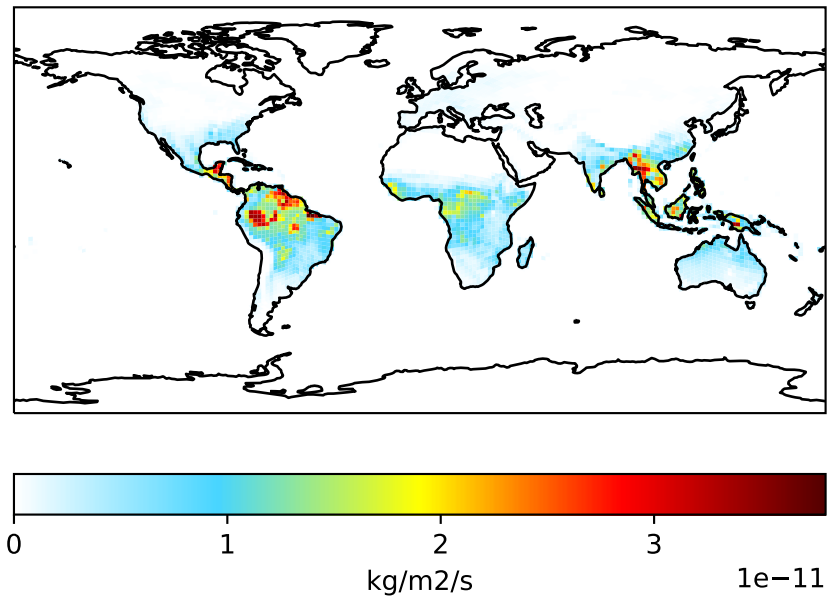


# EmisALD2_Biogenic (Apr2019)

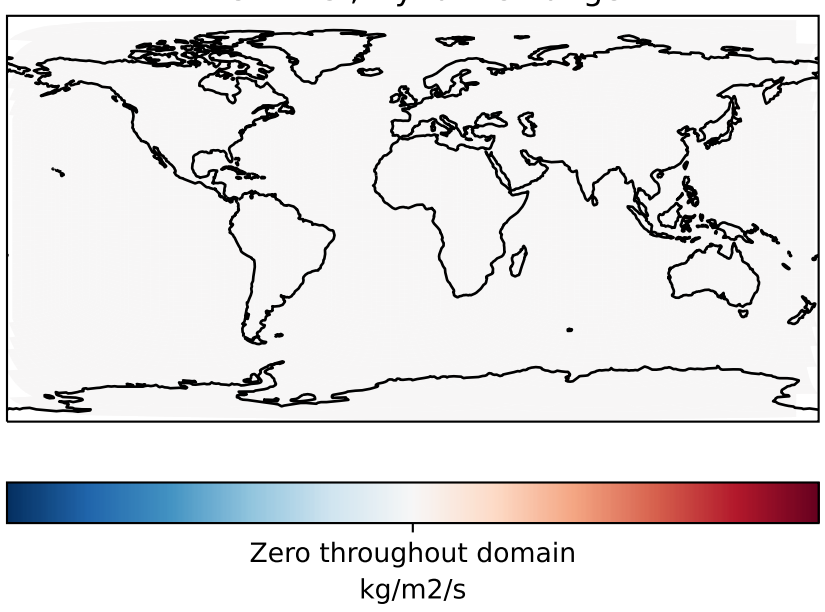
GCHP_13.2.0 (Ref)
c48



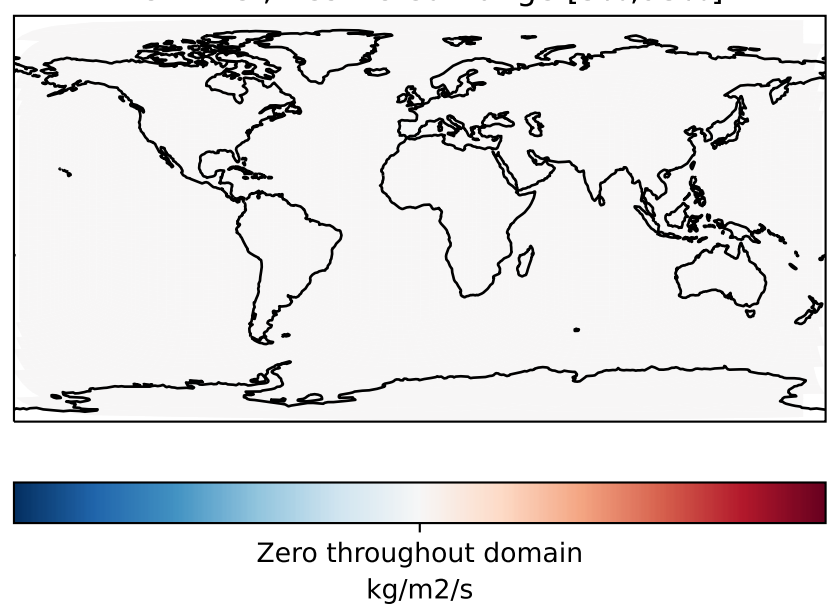

GCHP_13.2.0-LuoWetdep (Dev)
c48



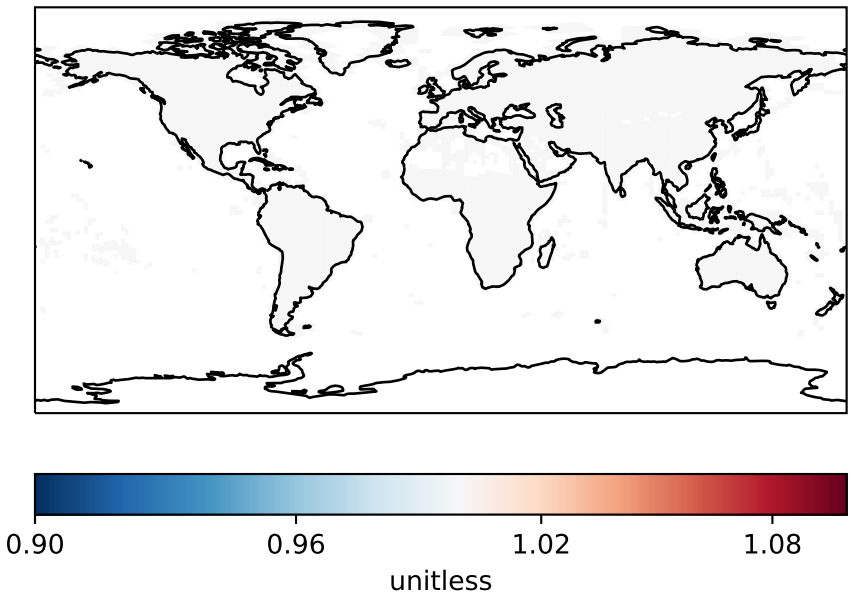

Difference
Dev - Ref, Dynamic Range



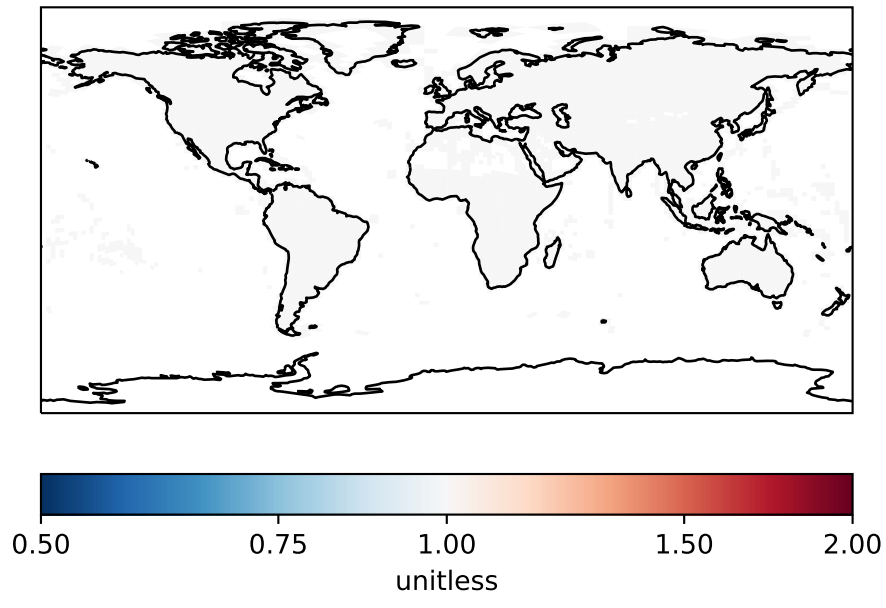

Difference
Dev - Ref, Restricted Range [5%,95%]




Ratio
Dev/Ref, Dynamic Range

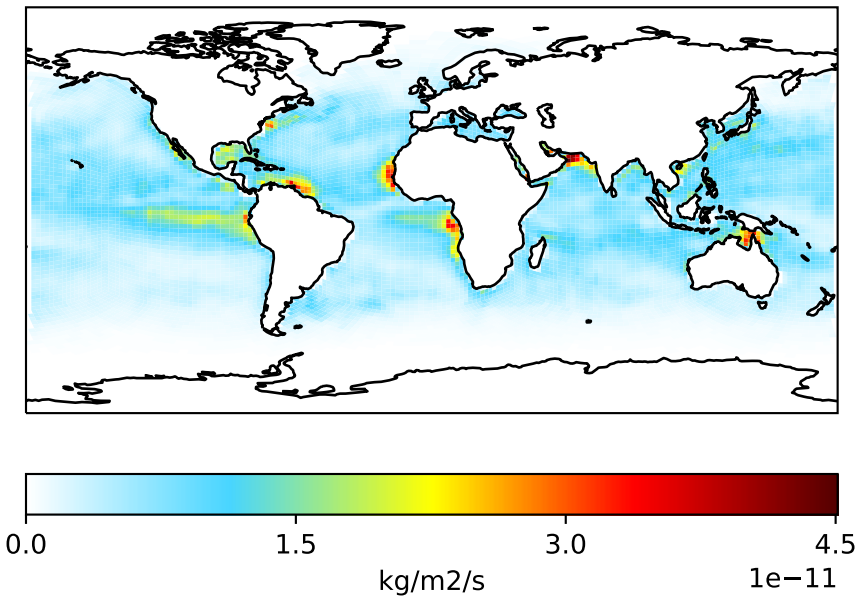



Ratio
Dev/Ref, Fixed Range

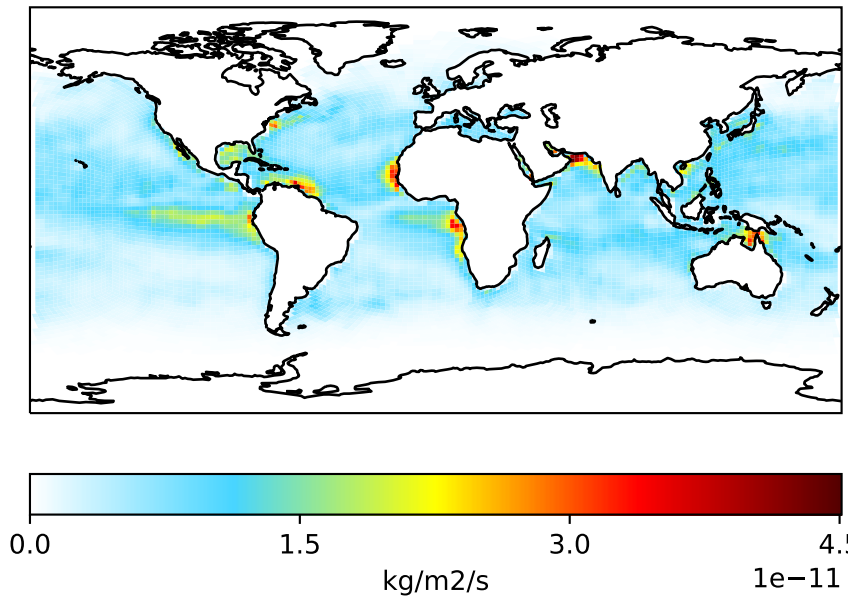


# EmisALD2_Ocean (Apr2019)

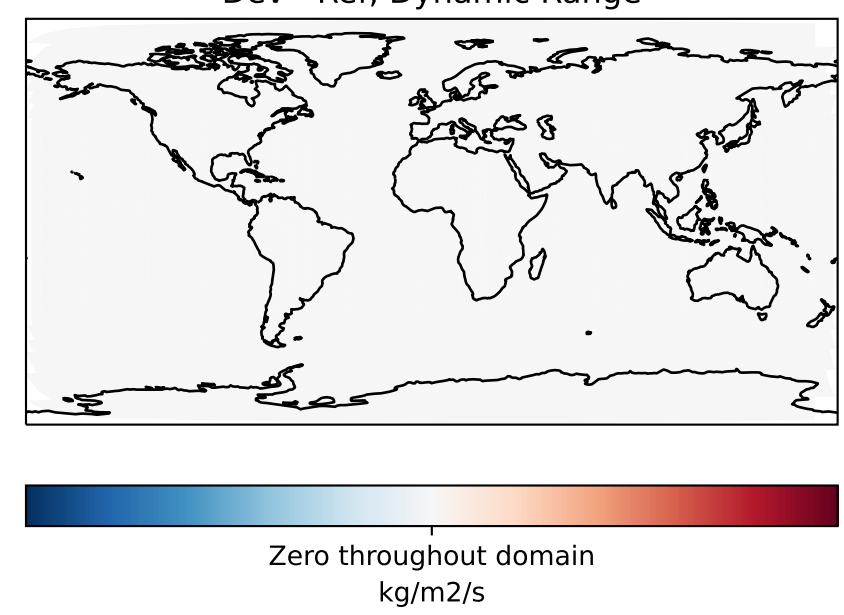
GCHP_13.2.0 (Ref)
c48



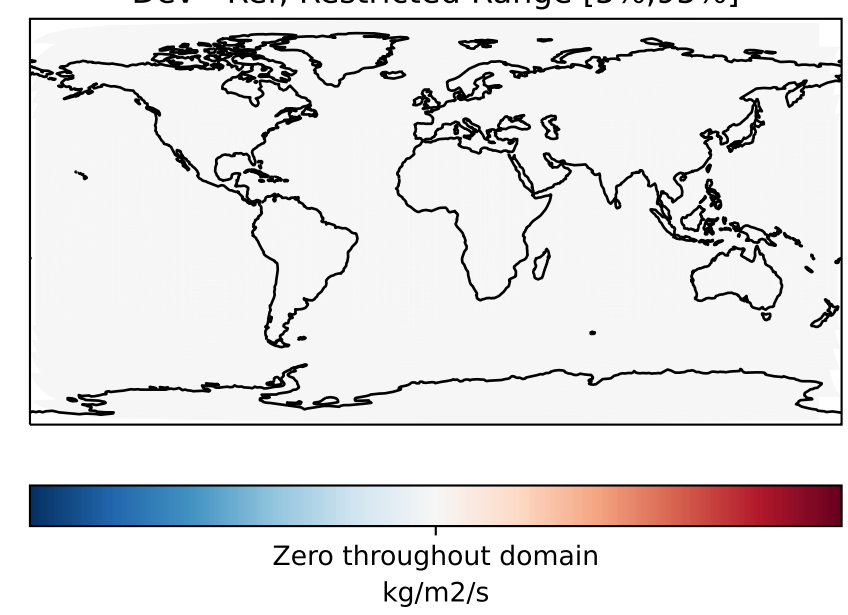

GCHP_13.2.0-LuoWetdep (Dev)
c48



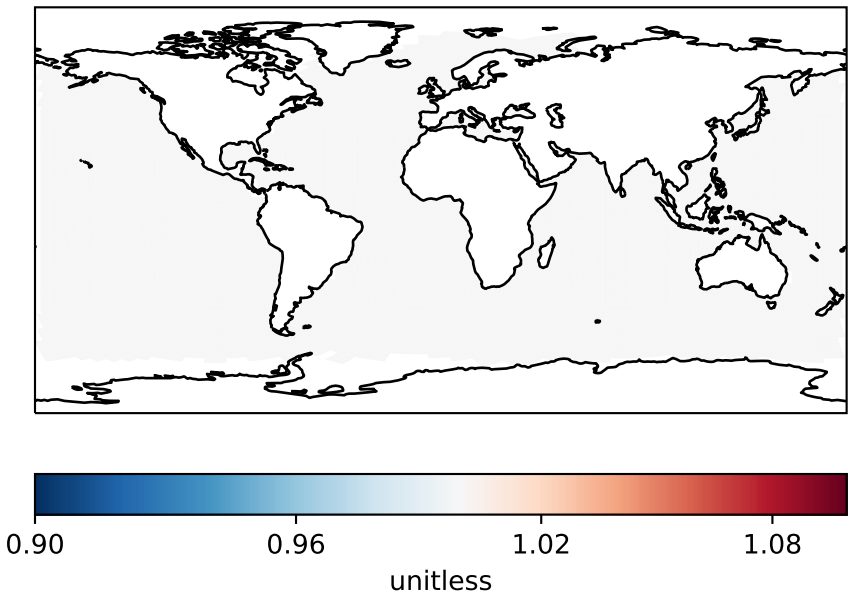

Difference
Dev - Ref, Dynamic Range



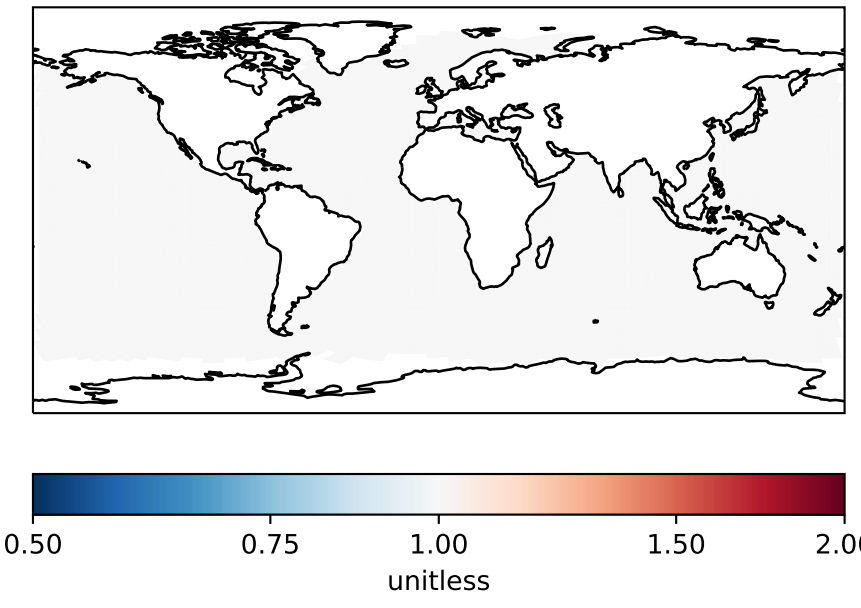

Difference
Dev - Ref, Restricted Range [5%,95%]




Ratio
Dev/Ref, Dynamic Range

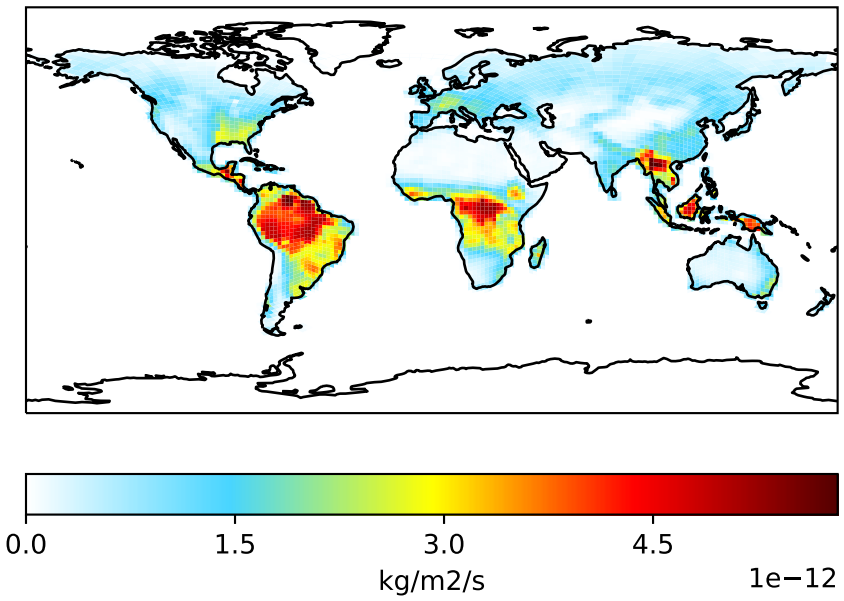



Ratio
Dev/Ref, Fixed Range

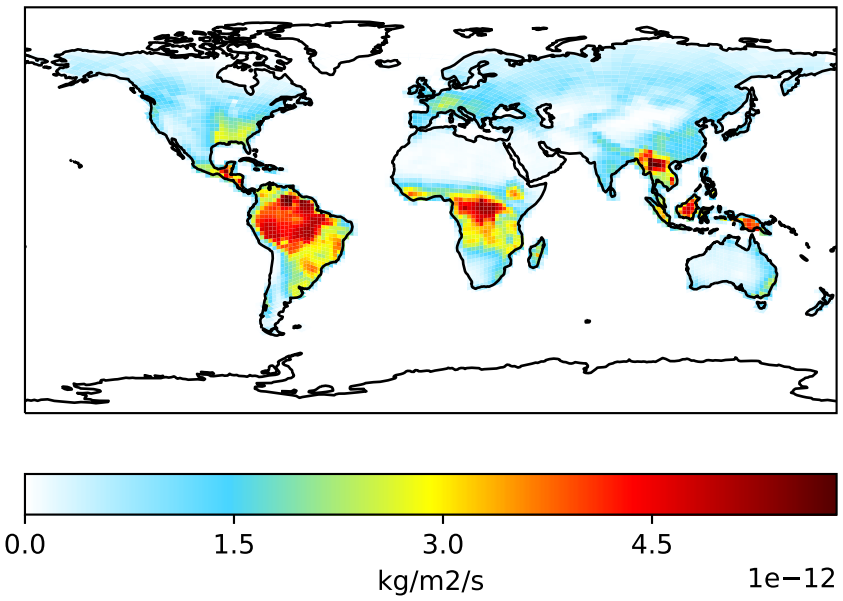


# EmisALD2_PlantDecay (Apr2019)

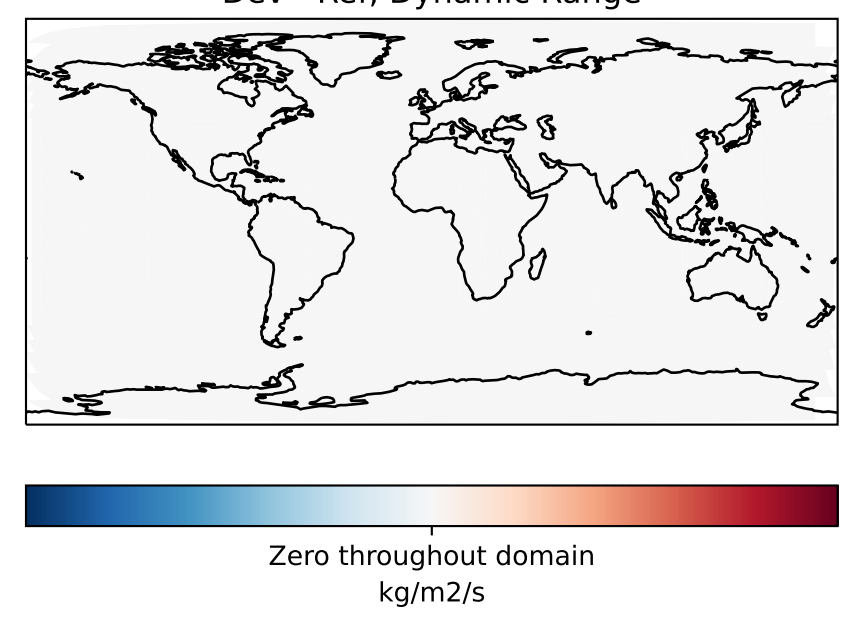
GCHP_13.2.0 (Ref)
c48



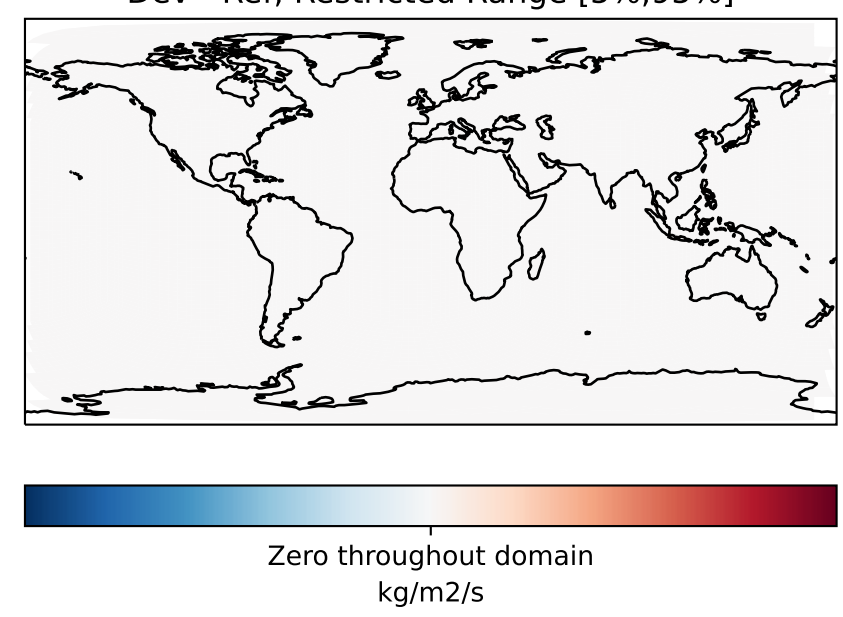

GCHP_13.2.0-LuoWetdep (Dev)
c48



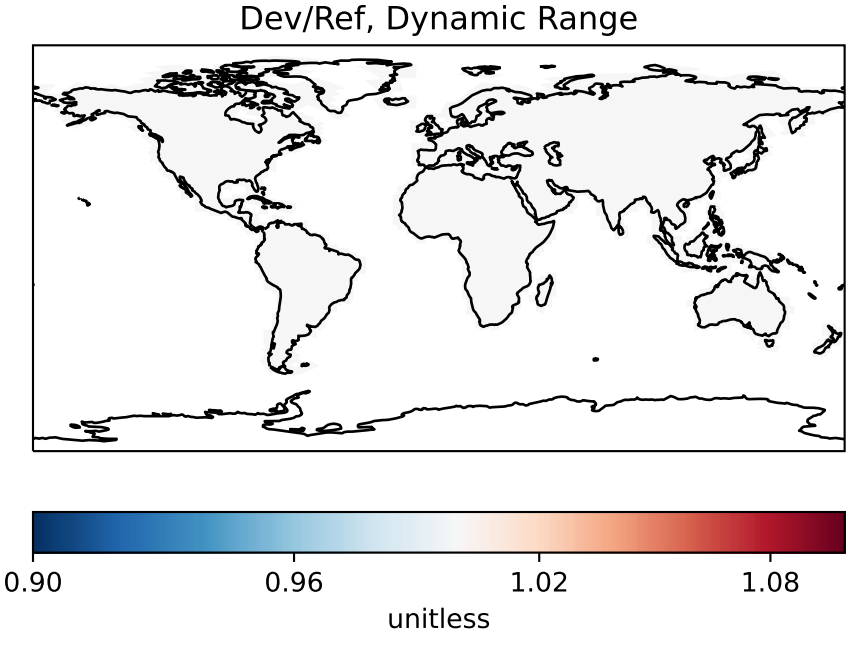

Difference
Dev - Ref, Dynamic Range



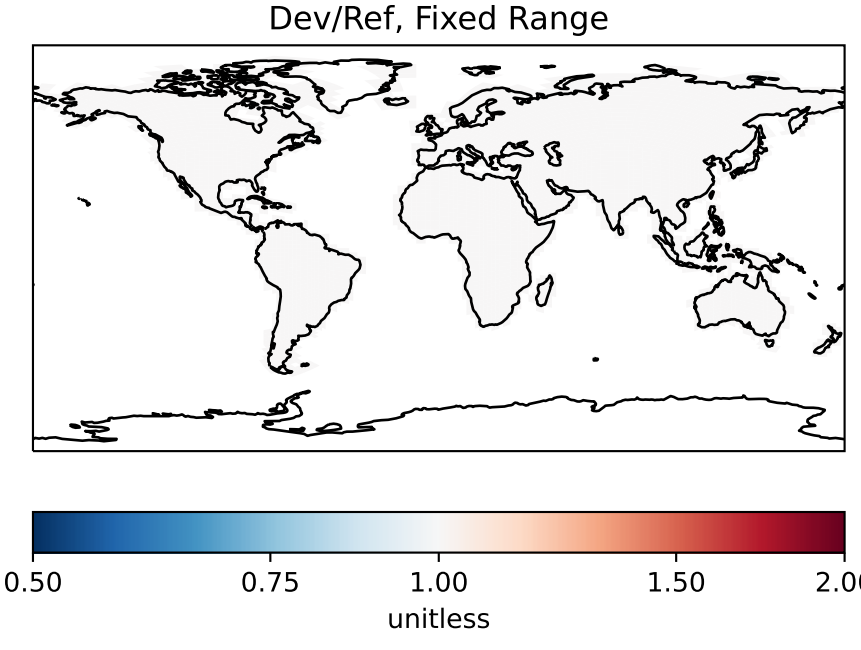

Difference
Dev - Ref, Restricted Range [5%,95%]




Ratio
Dev/Ref, Dynamic Range

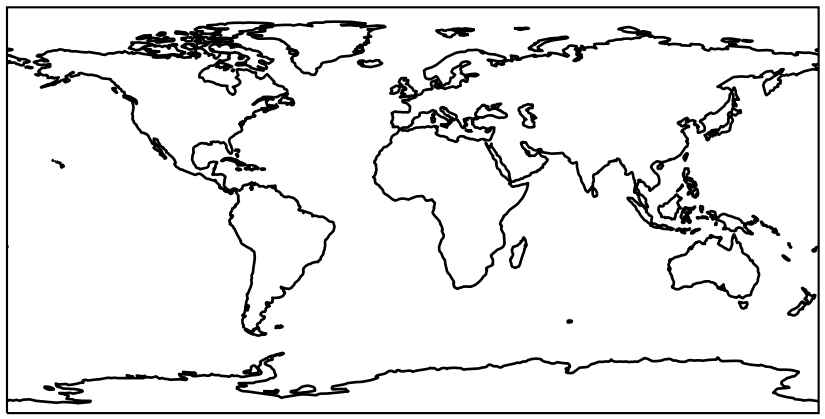



Ratio
Dev/Ref, Fixed Range



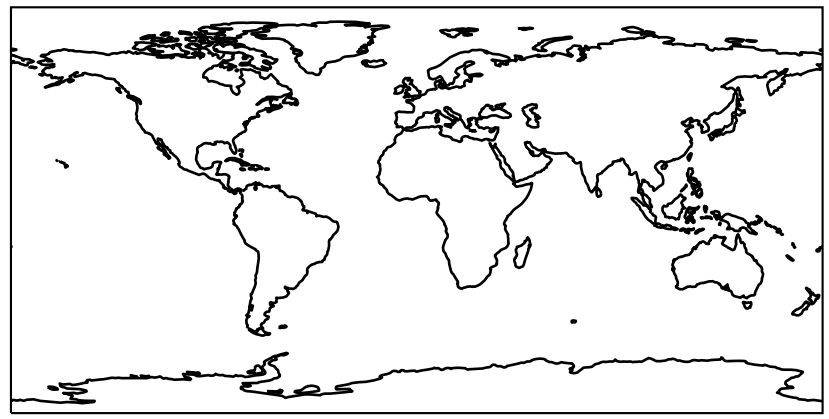
# EmisALD2_Ship (Apr2019)

GCHP_13.2.0 (Ref)
c48



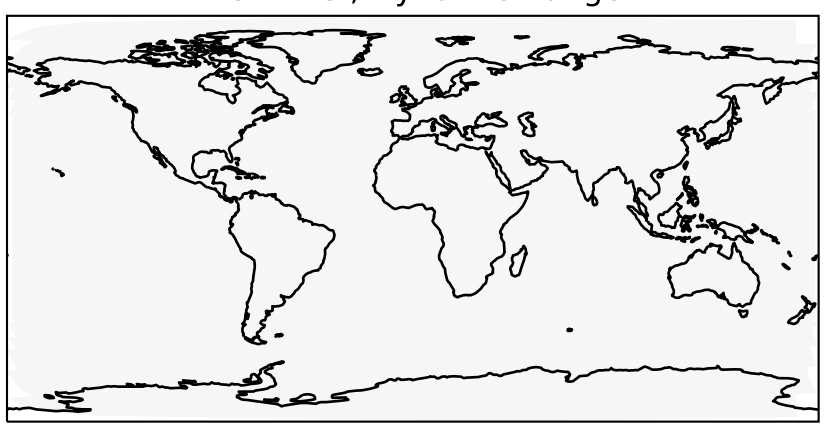
Zero throughout domain
kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



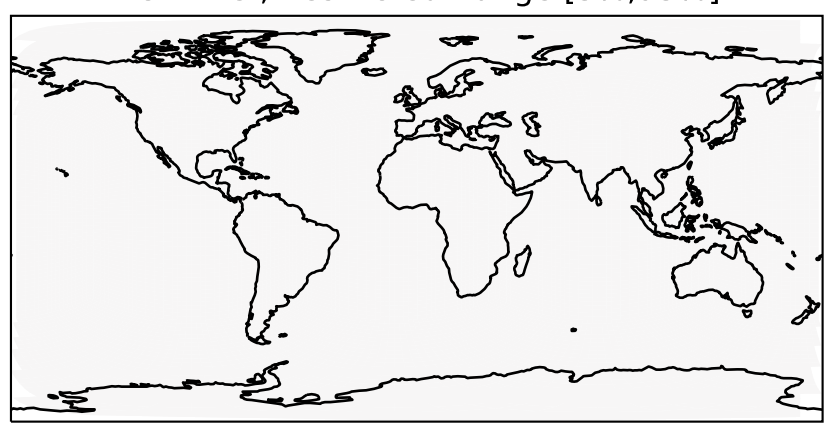
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



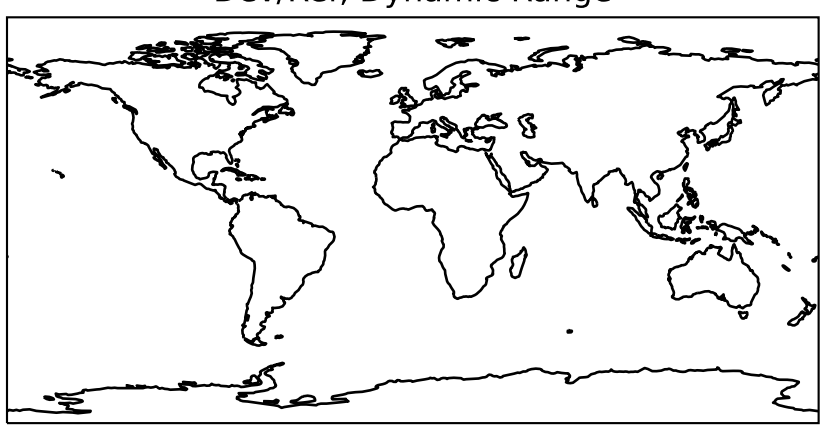
Zero throughout domain
kg/m2/s

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



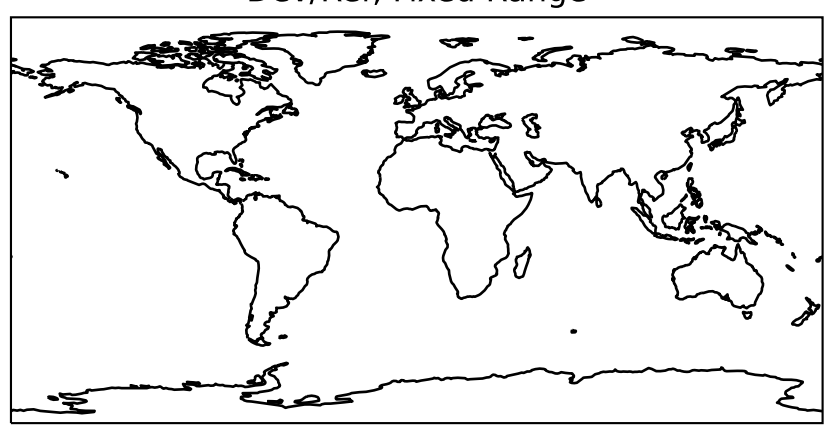
Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

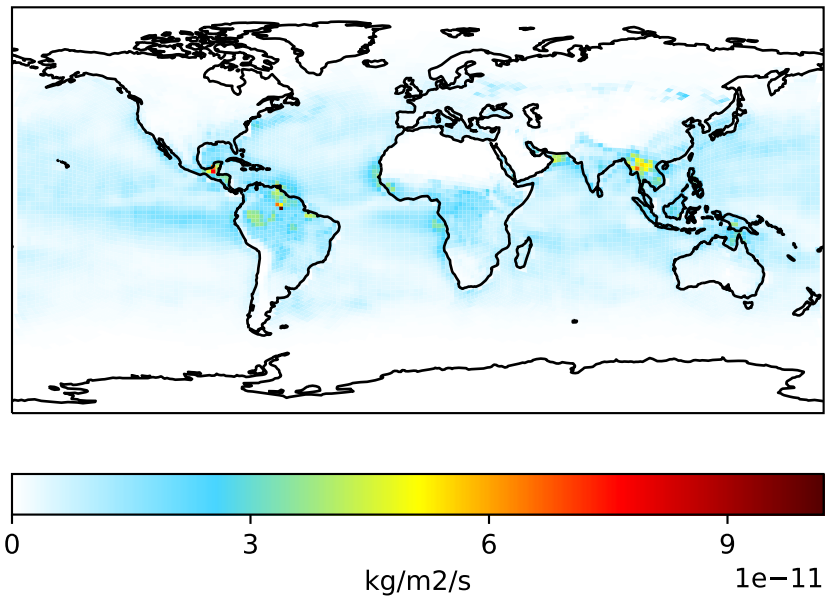
Ratio
Dev/Ref, Fixed Range



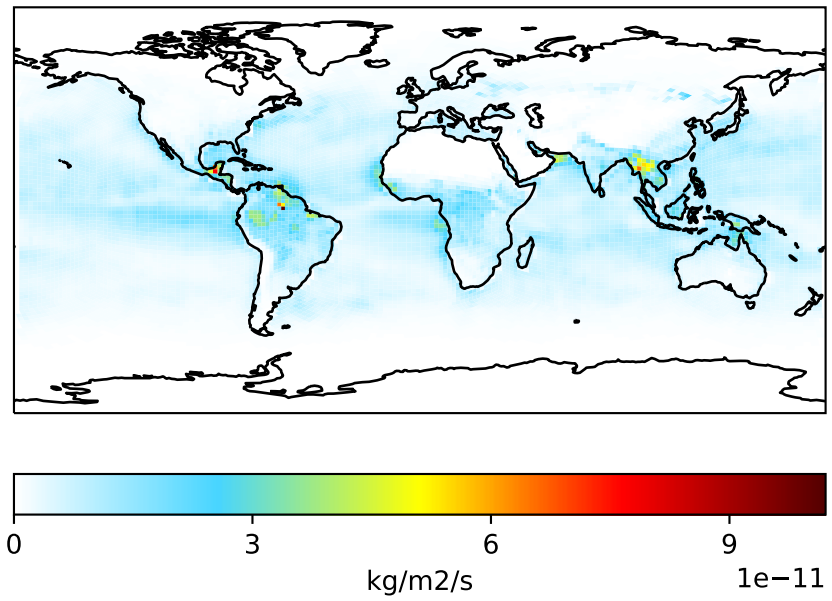
Undefined throughout domain
unitless

# EmisALD2_Total (Apr2019)

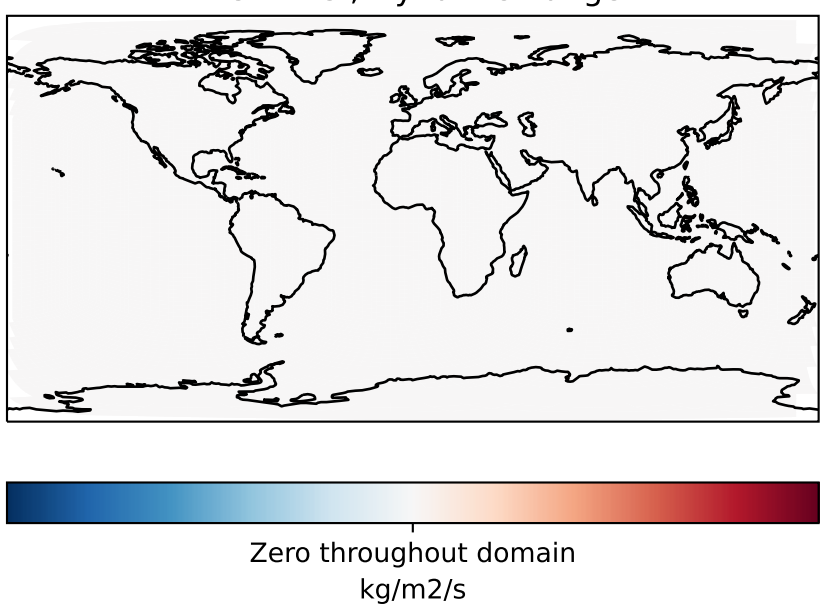
GCHP_13.2.0 (Ref)
c48



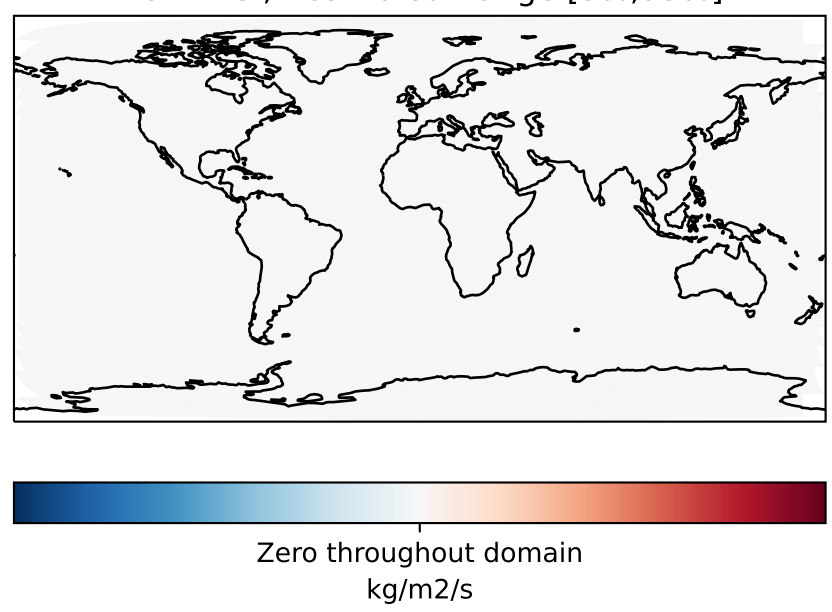

GCHP_13.2.0-LuoWetdep (Dev)
c48



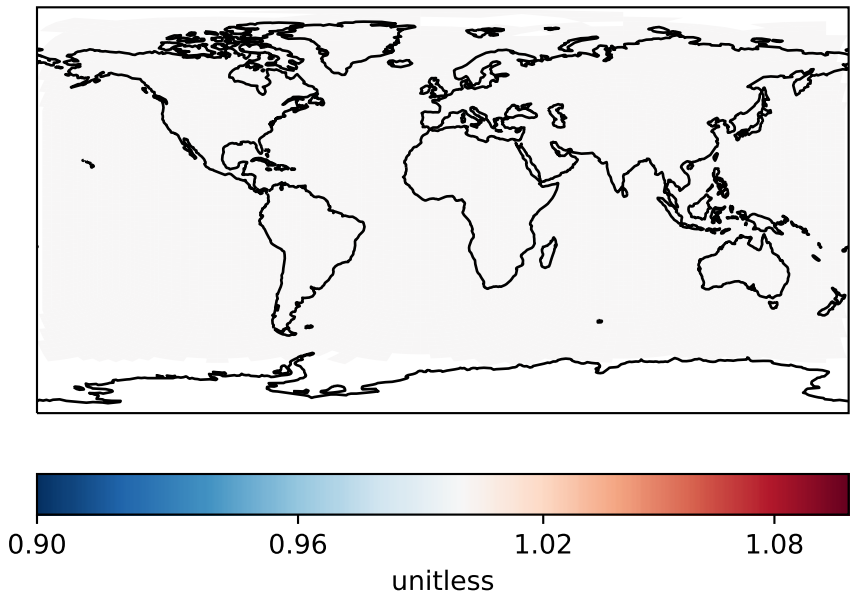

Difference
Dev - Ref, Dynamic Range



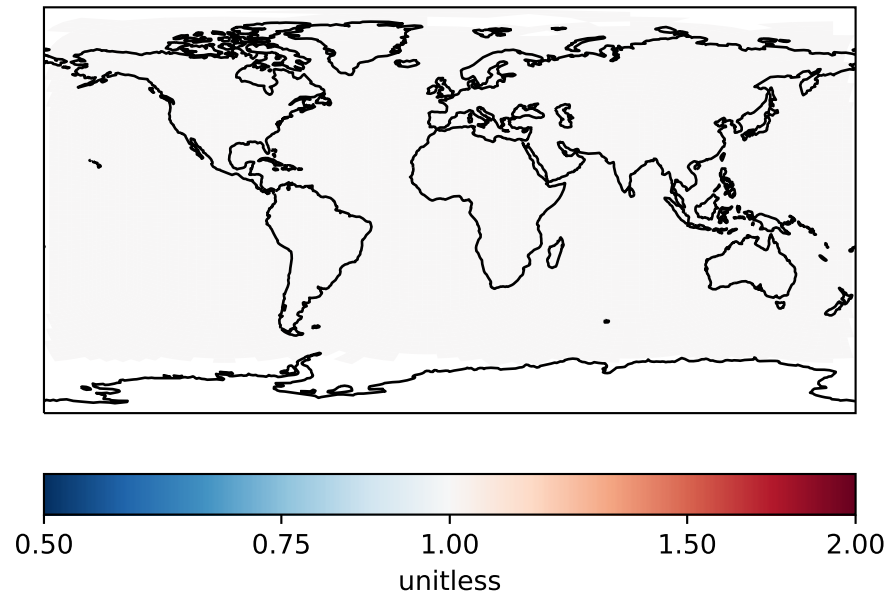

Difference
Dev - Ref, Restricted Range [5%,95%]




Ratio
Dev/Ref, Dynamic Range

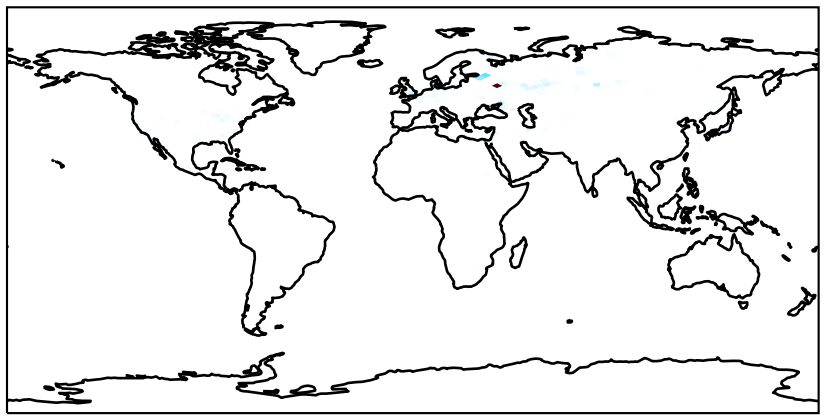


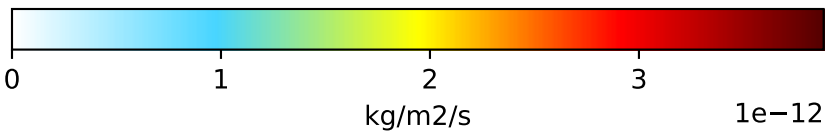

Ratio
Dev/Ref, Fixed Range



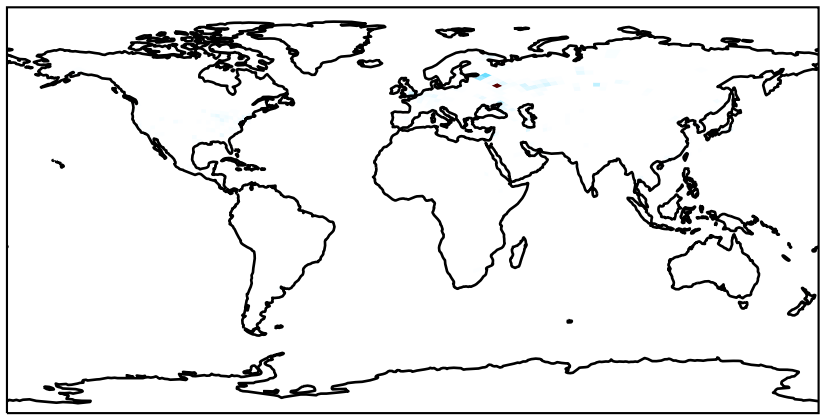
# EmisCH2O_Aircraft (Apr2019)

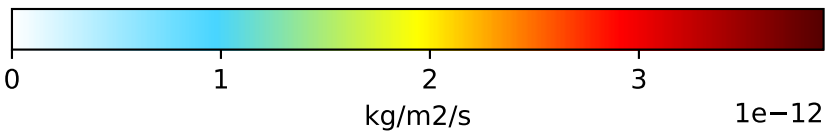
GCHP_13.2.0 (Ref)
c48



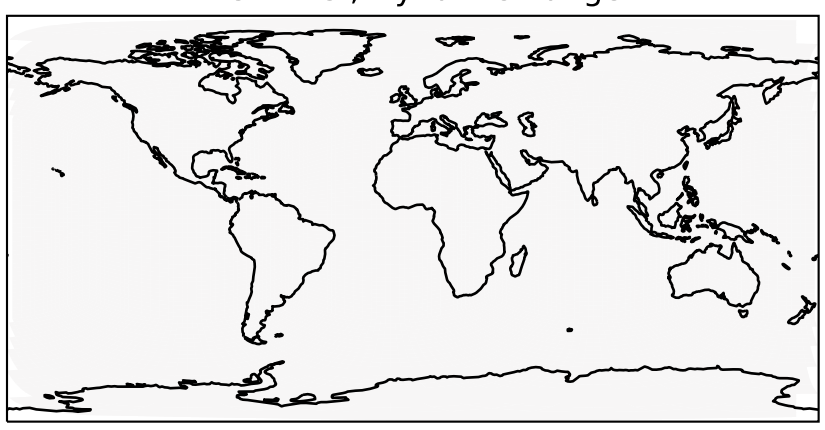


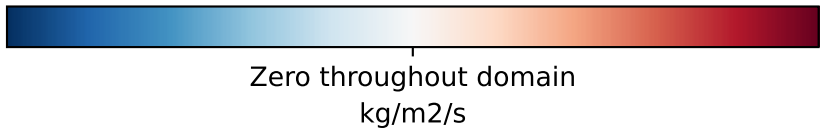

GCHP_13.2.0-LuoWetdep (Dev)
c48



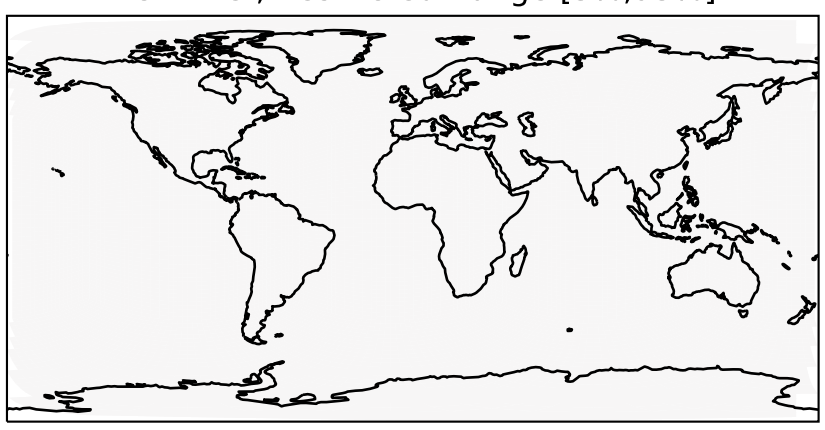


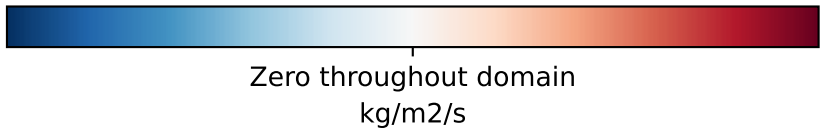

Difference
Dev - Ref, Dynamic Range



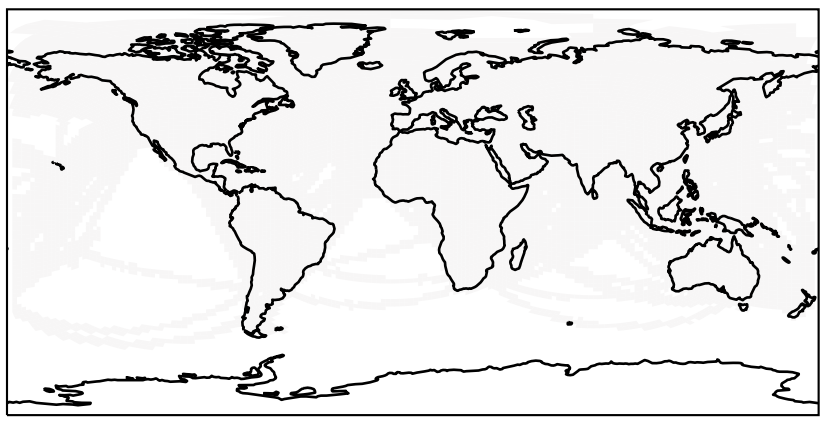


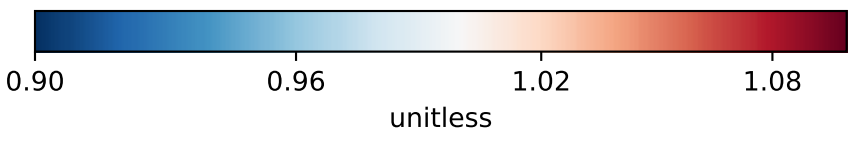

Difference
Dev - Ref, Restricted Range [5%,95%]



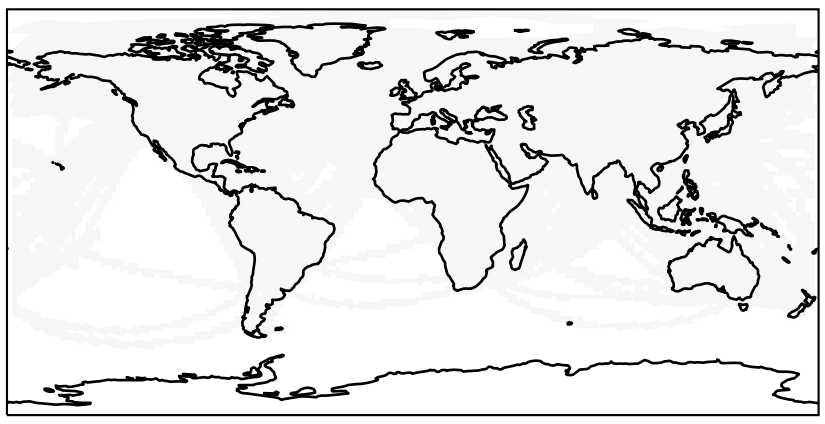


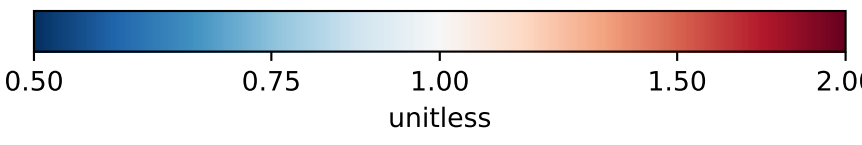

Ratio
Dev/Ref, Dynamic Range





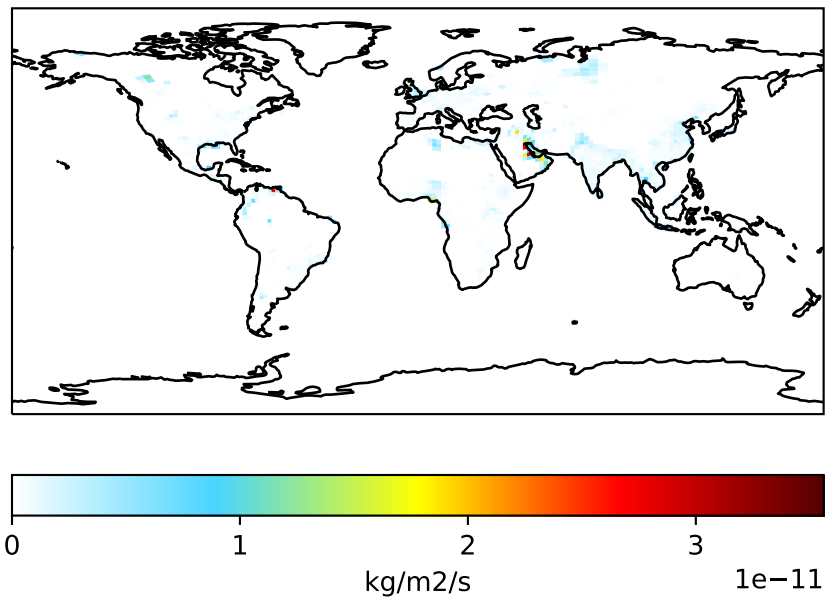

Ratio
Dev/Ref, Fixed Range



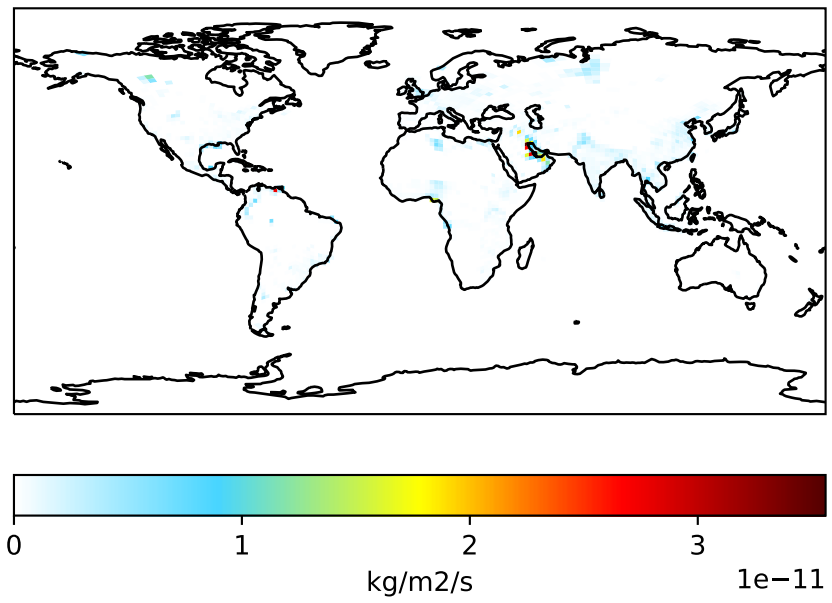


# EmisCH2O_Anthro (Apr2019)

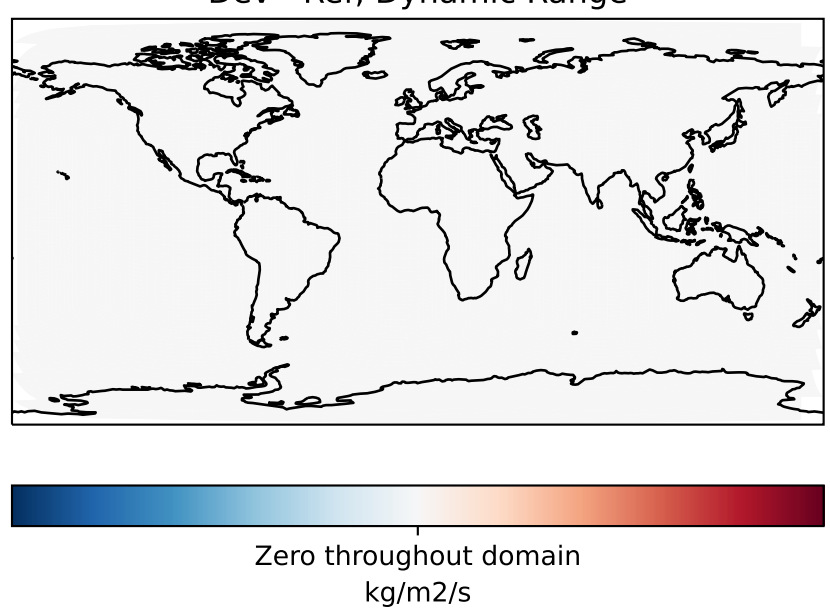
GCHP_13.2.0 (Ref)
c48



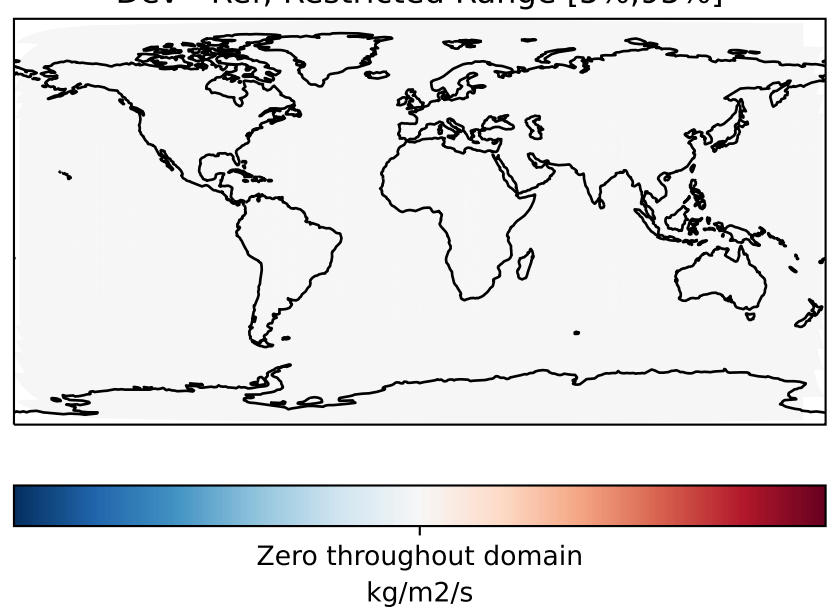

GCHP_13.2.0-LuoWetdep (Dev)
c48



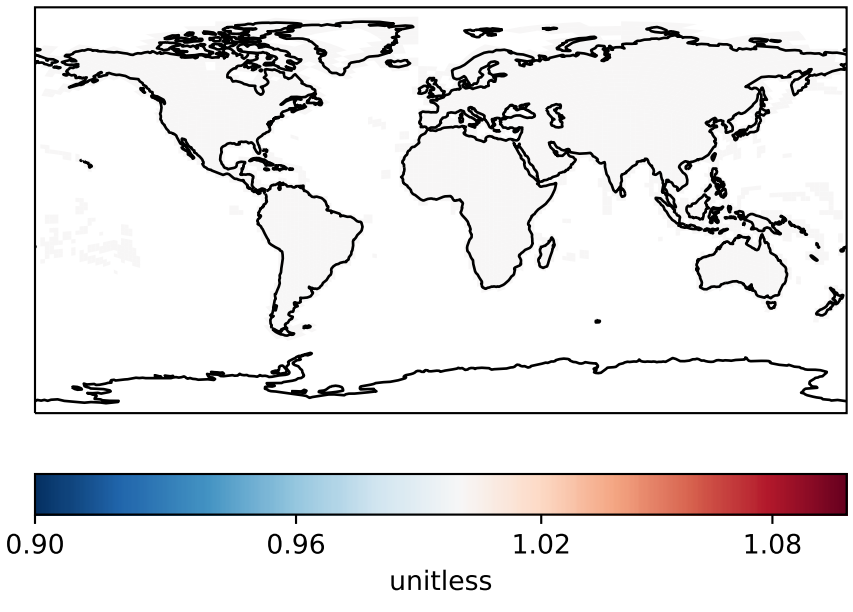

Difference
Dev - Ref, Dynamic Range



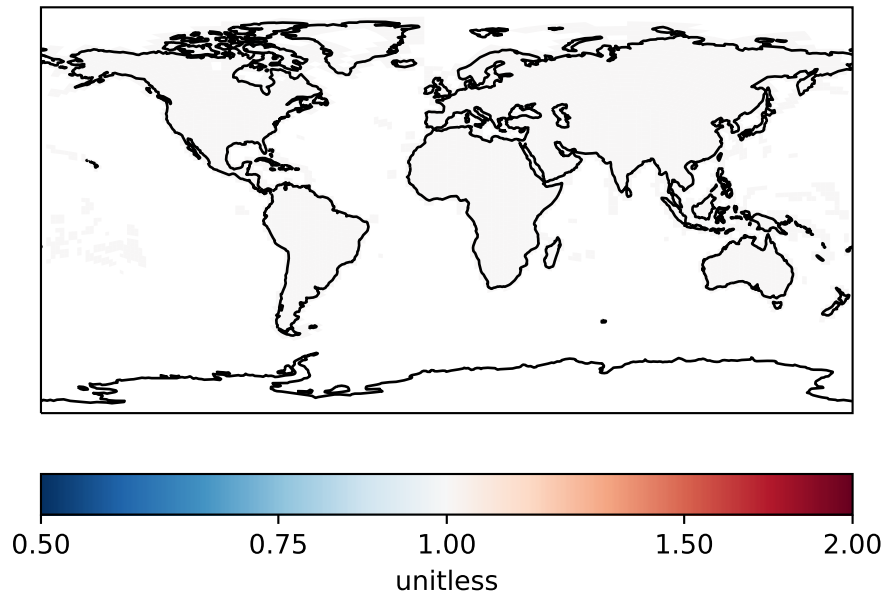

Difference
Dev - Ref, Restricted Range [5%,95%]




Ratio
Dev/Ref, Dynamic Range

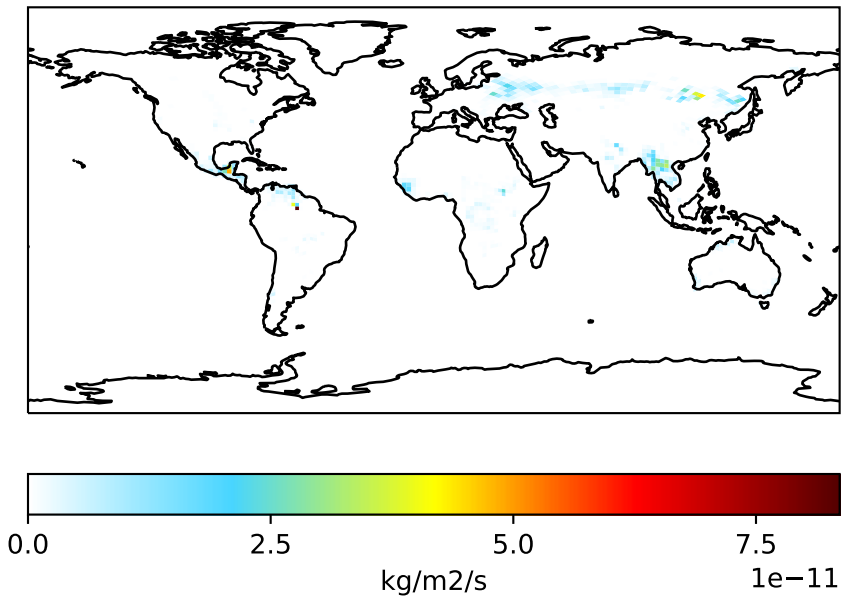



Ratio
Dev/Ref, Fixed Range

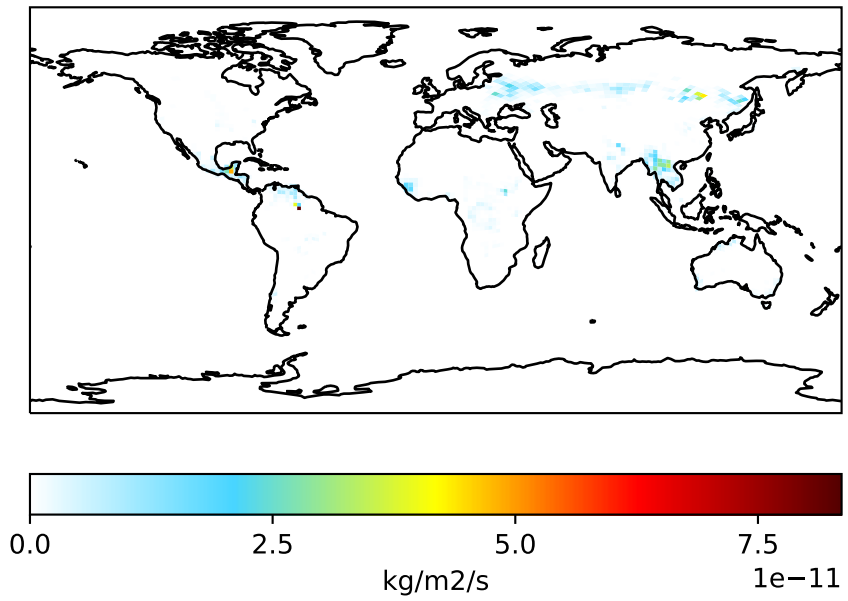


# EmisCH2O_BioBurn (Apr2019)

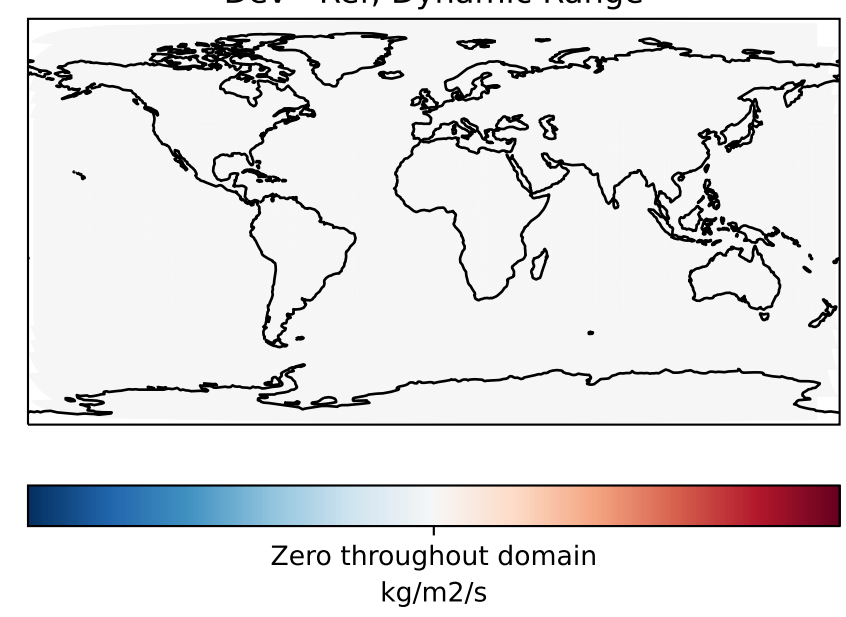
GCHP_13.2.0 (Ref)
c48



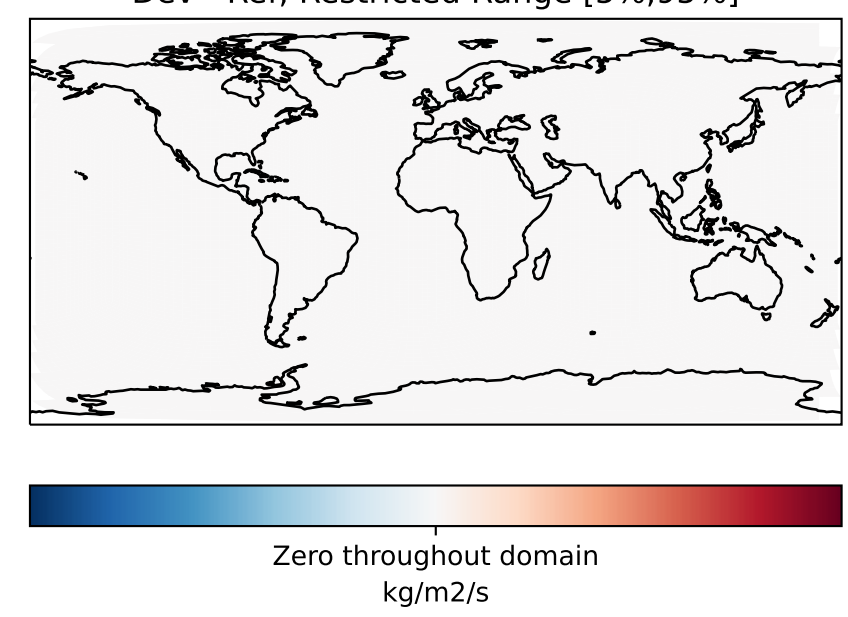

GCHP_13.2.0-LuoWetdep (Dev)
c48



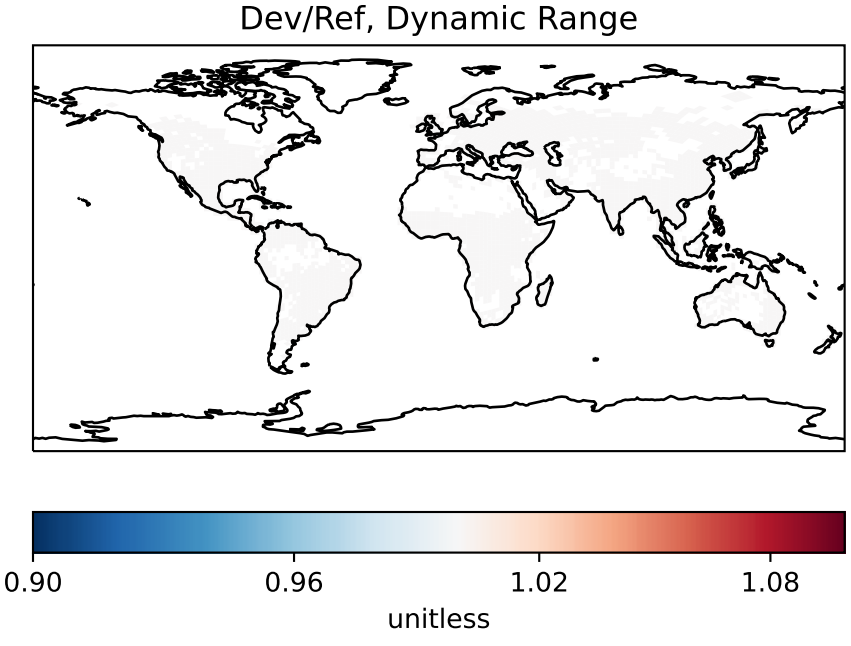

Difference
Dev - Ref, Dynamic Range



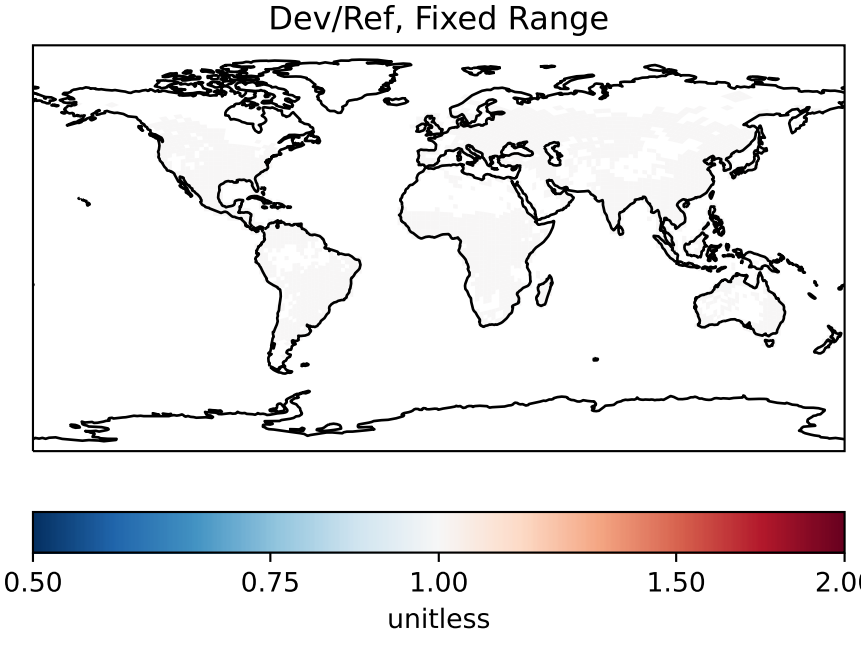

Difference
Dev - Ref, Restricted Range [5%,95%]




Ratio
Dev/Ref, Dynamic Range

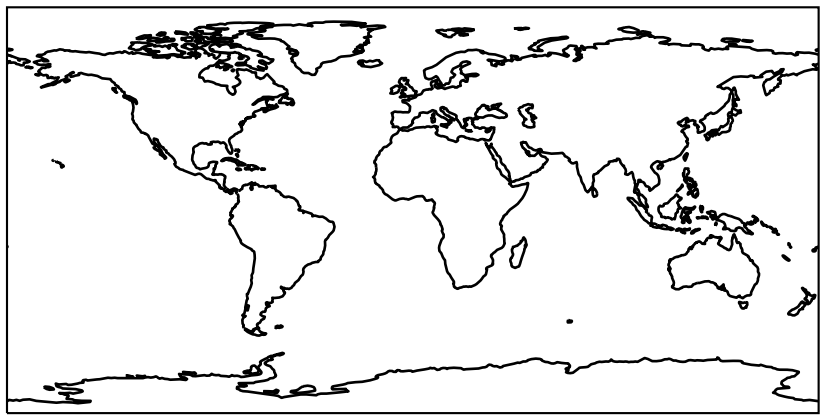



Ratio
Dev/Ref, Fixed Range



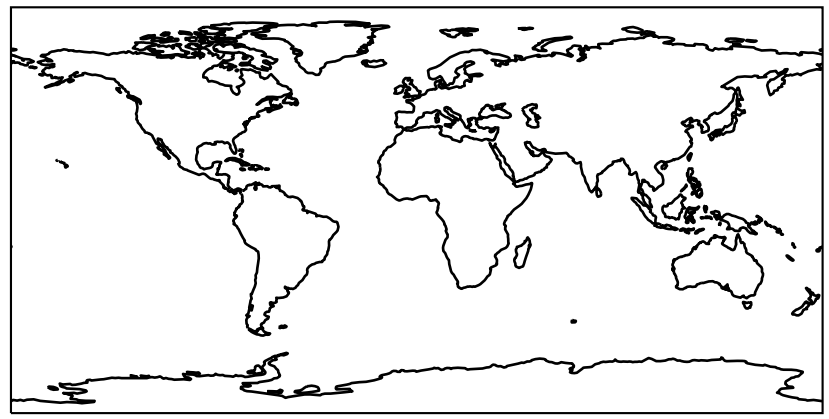
# EmisCH2O_Ship (Apr2019)

GCHP_13.2.0 (Ref)
c48



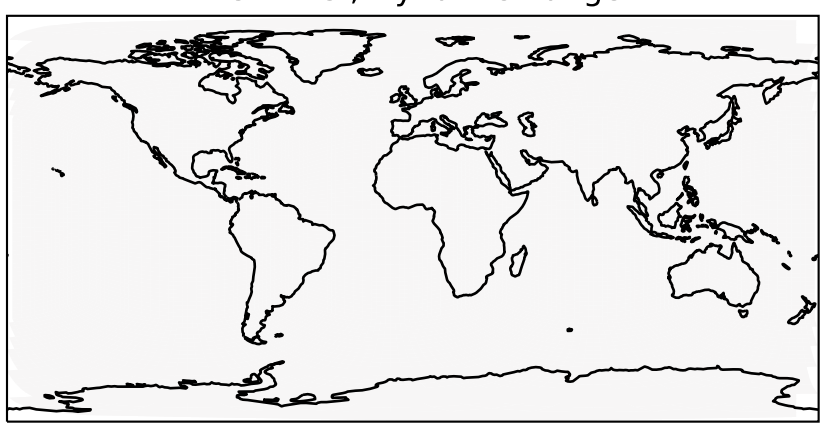
Zero throughout domain
kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



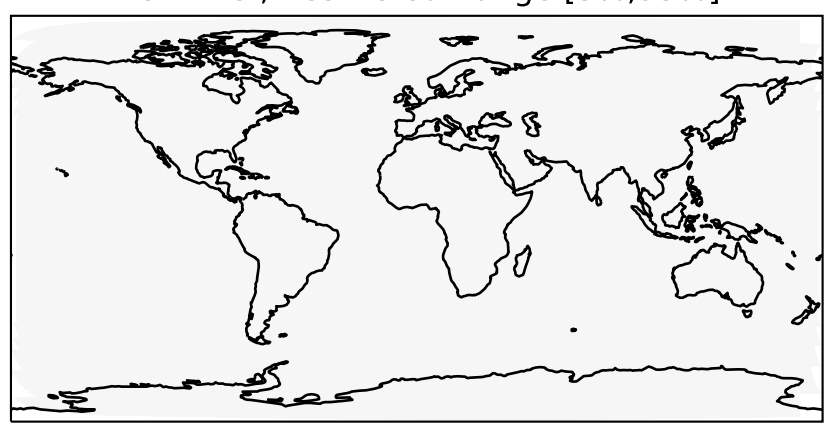
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



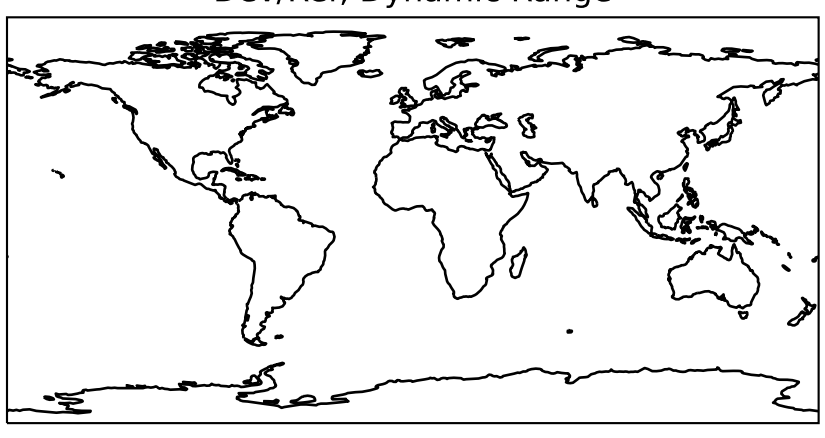
Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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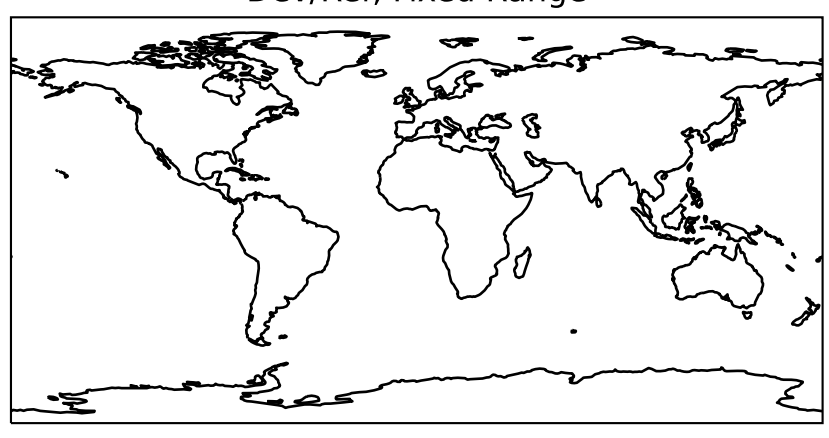
unitless

Ratio
Dev/Ref, Fixed Range



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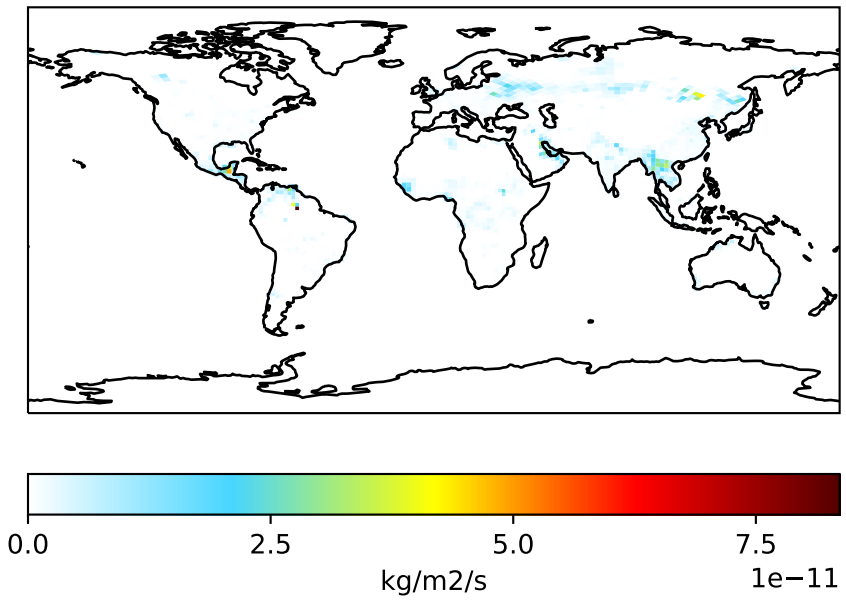
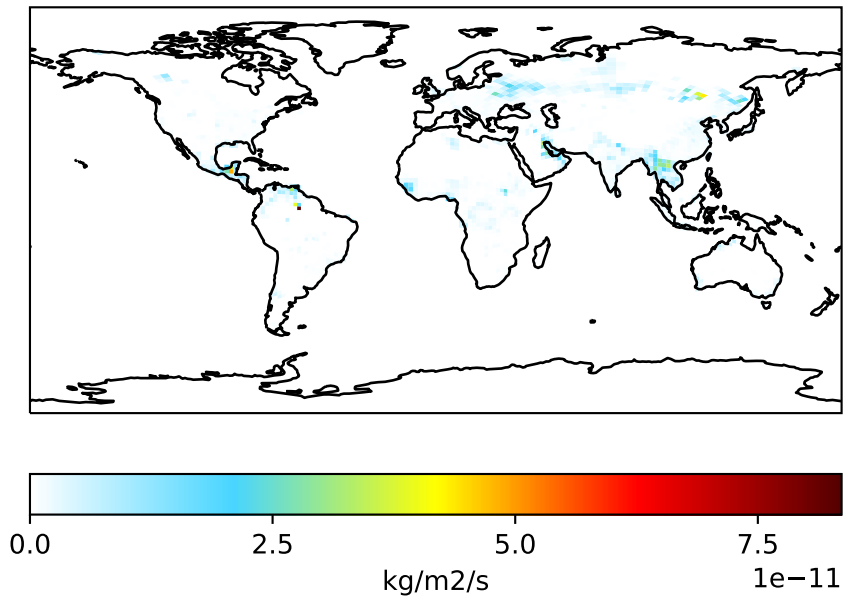
unitless

# EmisCH2O_Total (Apr2019)

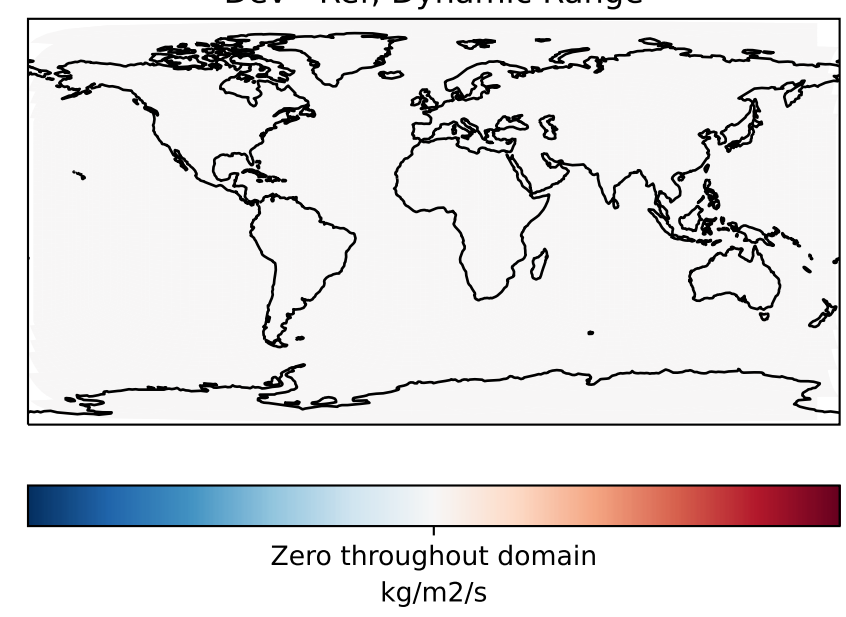
GCHP_13.2.0 (Ref)
c48



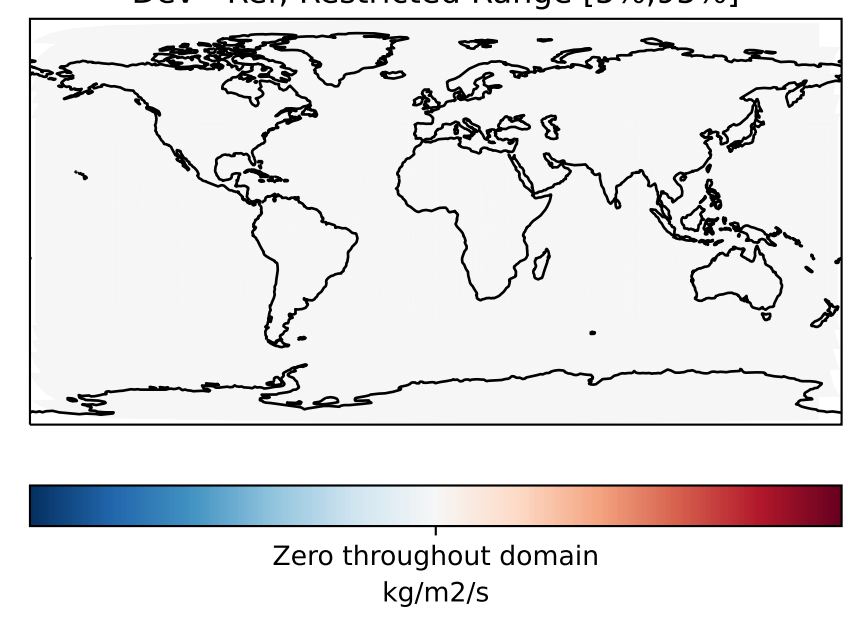

GCHP_13.2.0-LuoWetdep (Dev)
c48



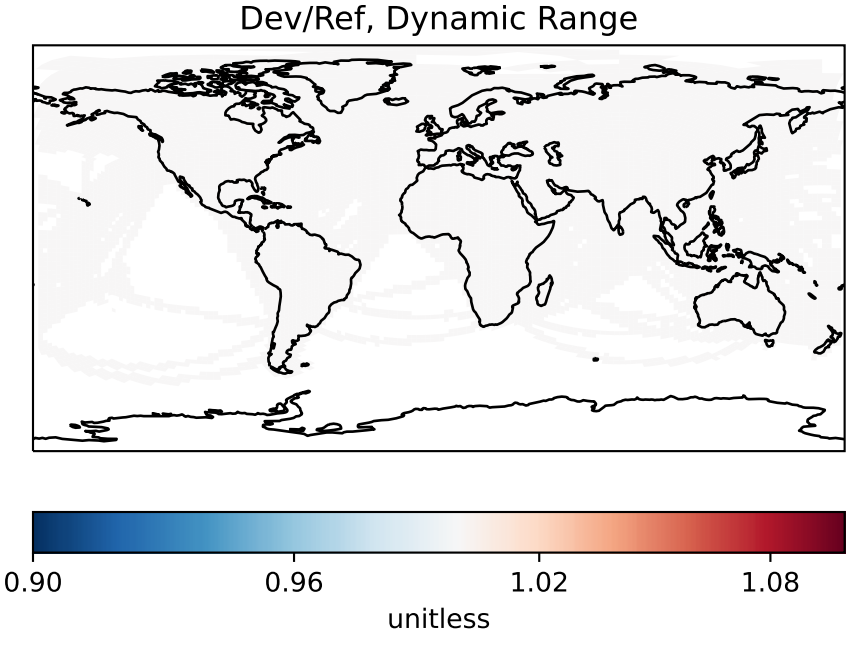

Difference
Dev - Ref, Dynamic Range



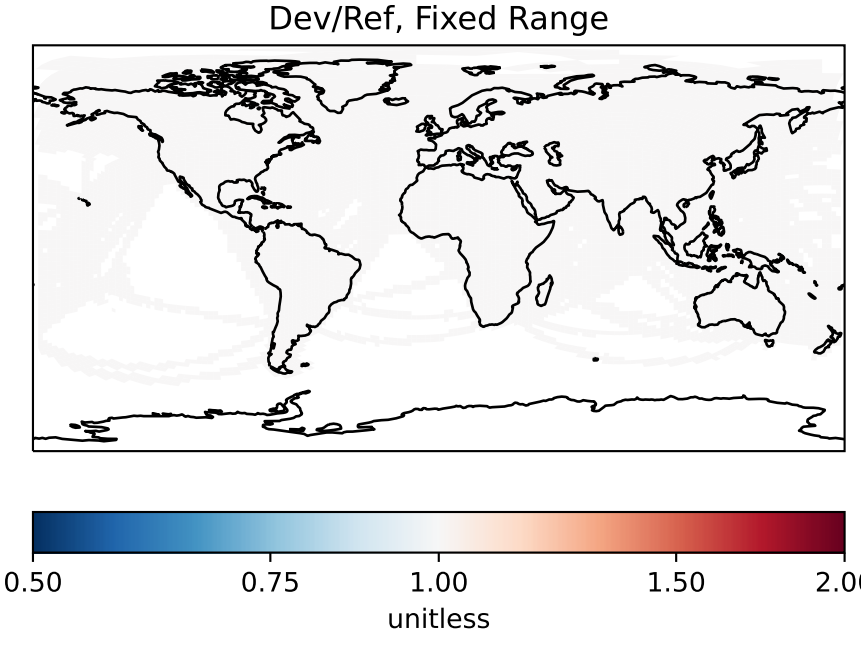

Difference
Dev - Ref, Restricted Range [5%,95%]




Ratio
Dev/Ref, Dynamic Range

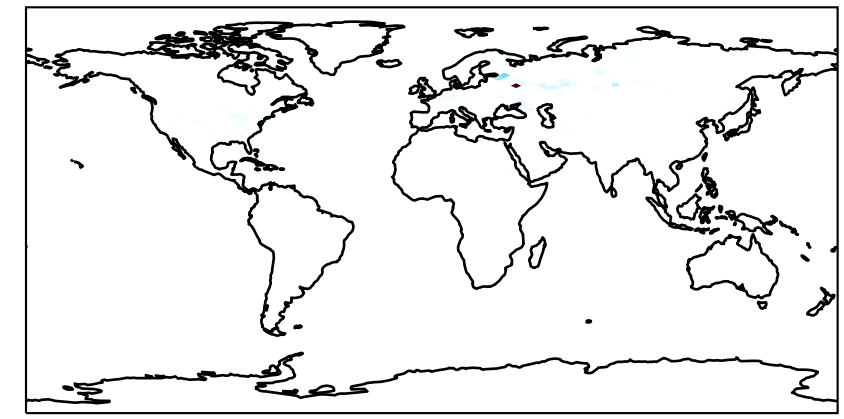


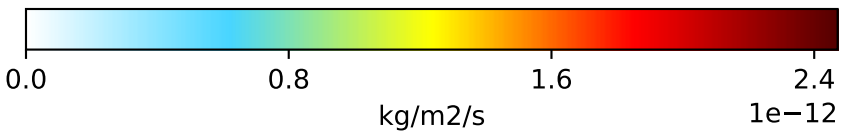

Ratio
Dev/Ref, Fixed Range



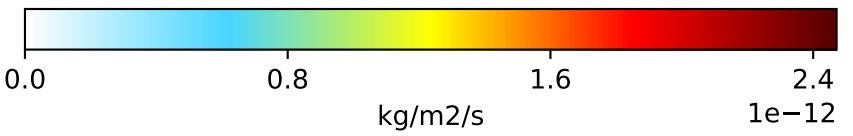
# EmisMACR_Aircraft (Apr2019)

GCHP_13.2.0 (Ref)
c48

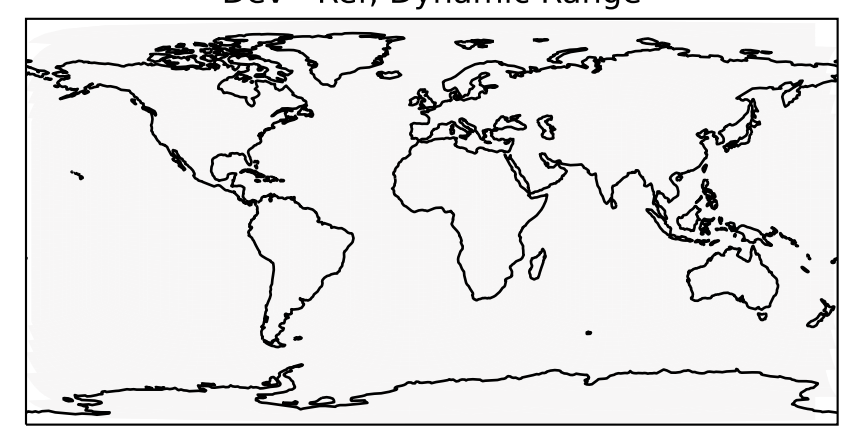


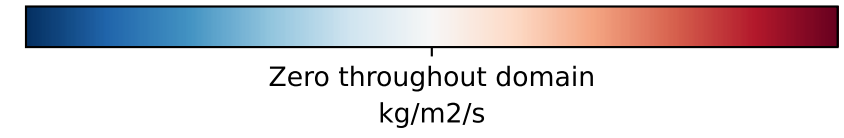



GCHP_13.2.0-LuoWetdep (Dev)
c48

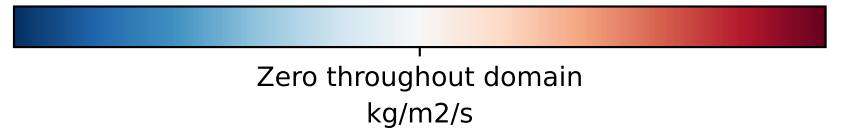



Difference
Dev - Ref, Dynamic Range

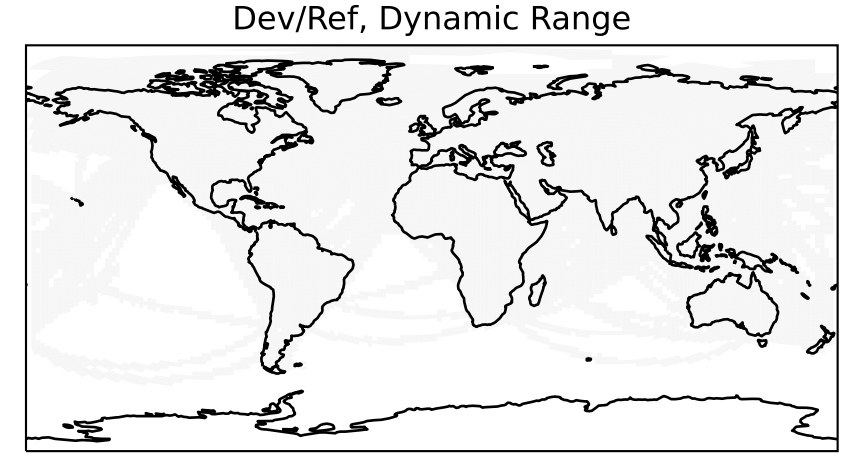


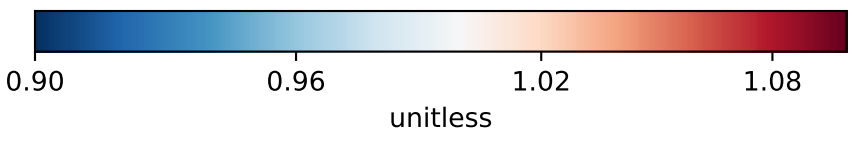



Difference
Dev - Ref, Restricted Range [5%,95%]

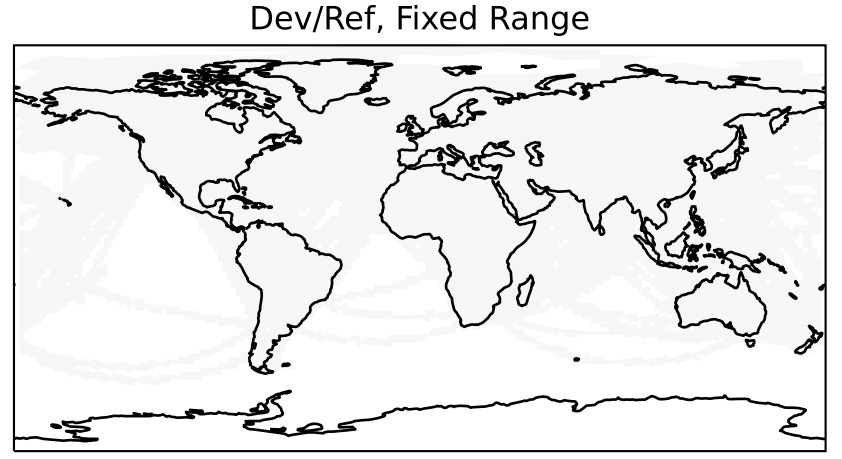


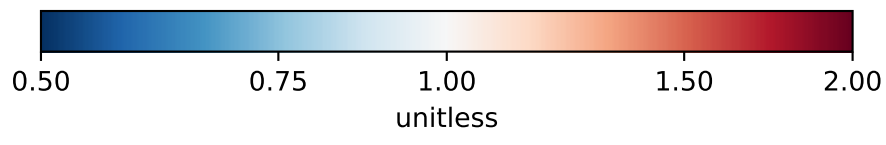

Ratio
Dev/Ref, Dynamic Range





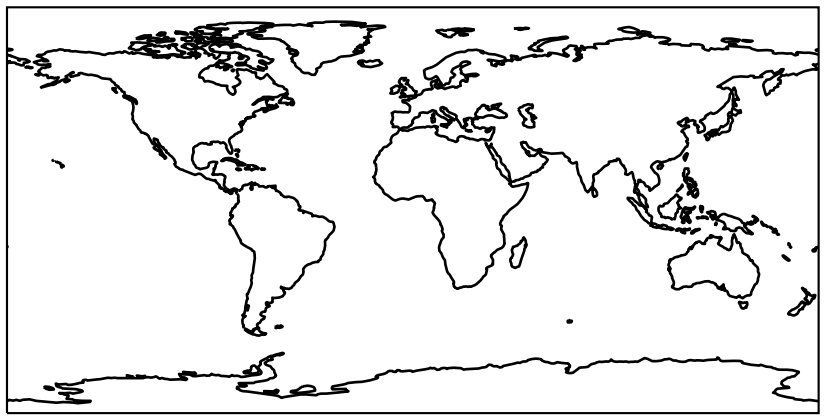

Ratio
Dev/Ref, Fixed Range





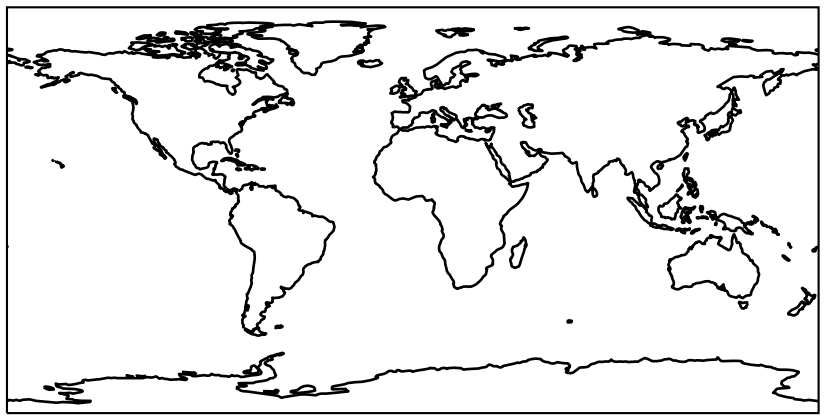
# EmisMACR_Anthro (Apr2019)

GCHP_13.2.0 (Ref)
c48



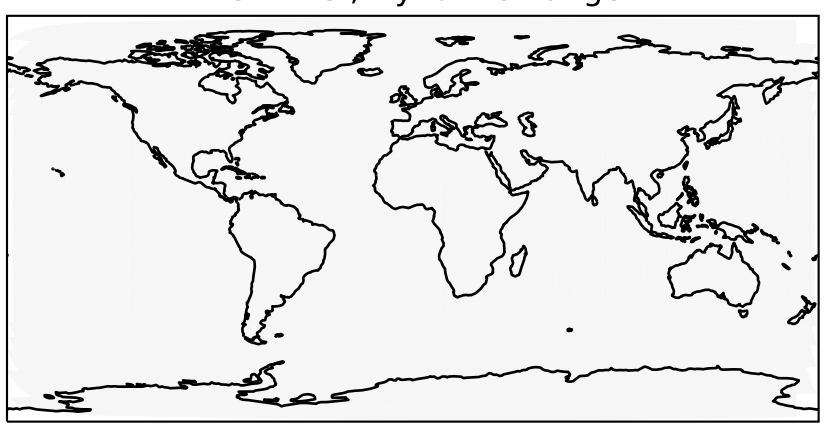
Zero throughout domain
kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



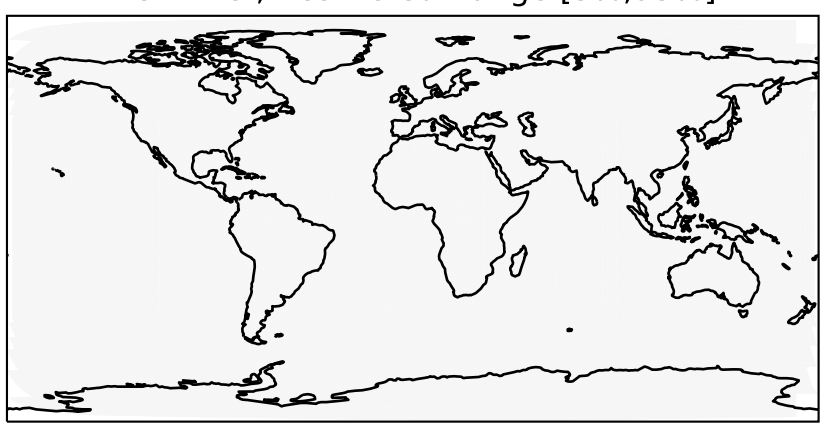
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



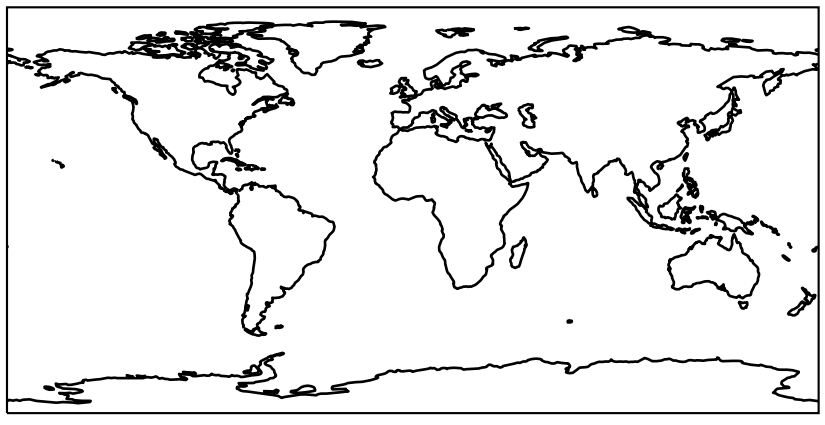
Zero throughout domain
kg/m2/s

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



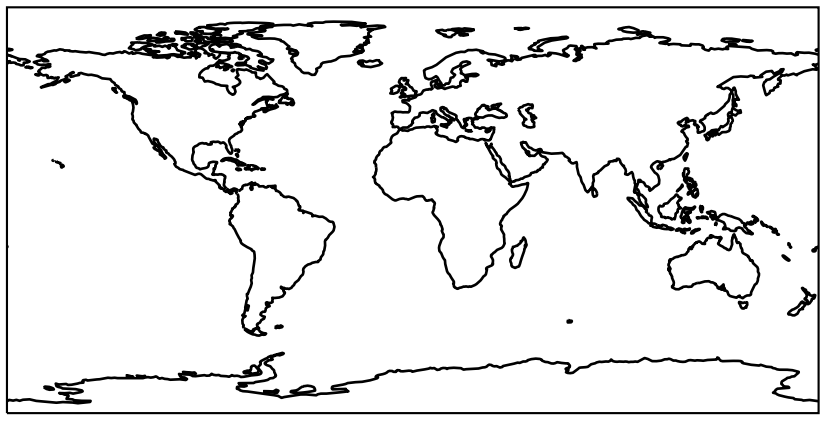
Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

Ratio
Dev/Ref, Fixed Range



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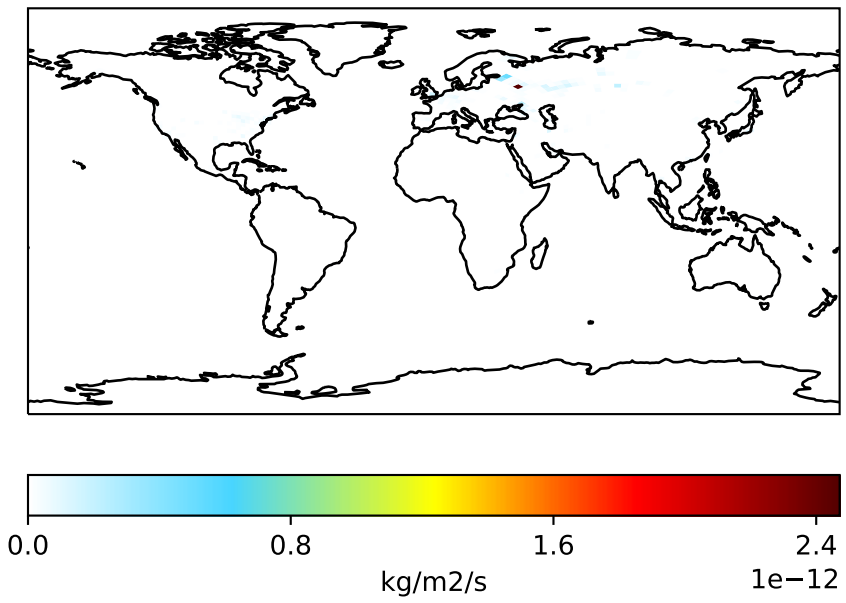
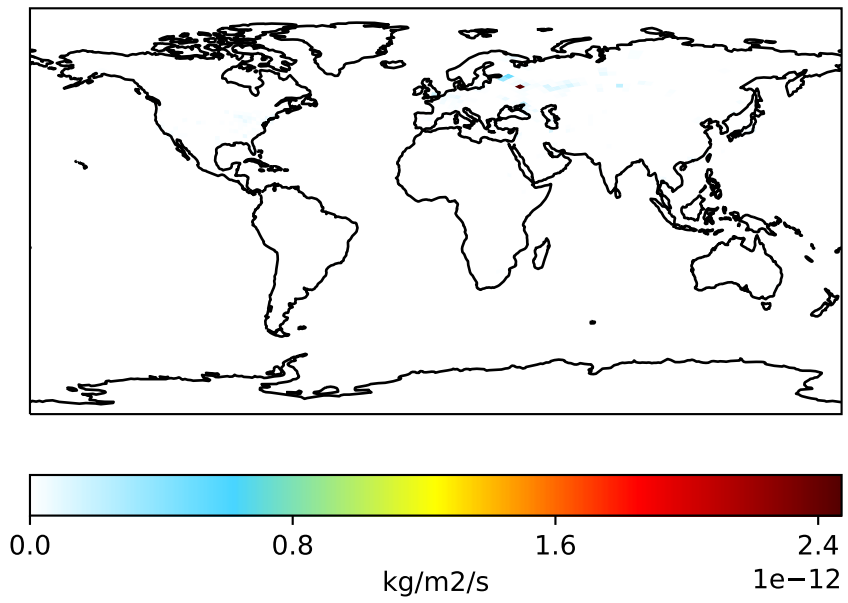
# EmisMACR_Total (Apr2019)

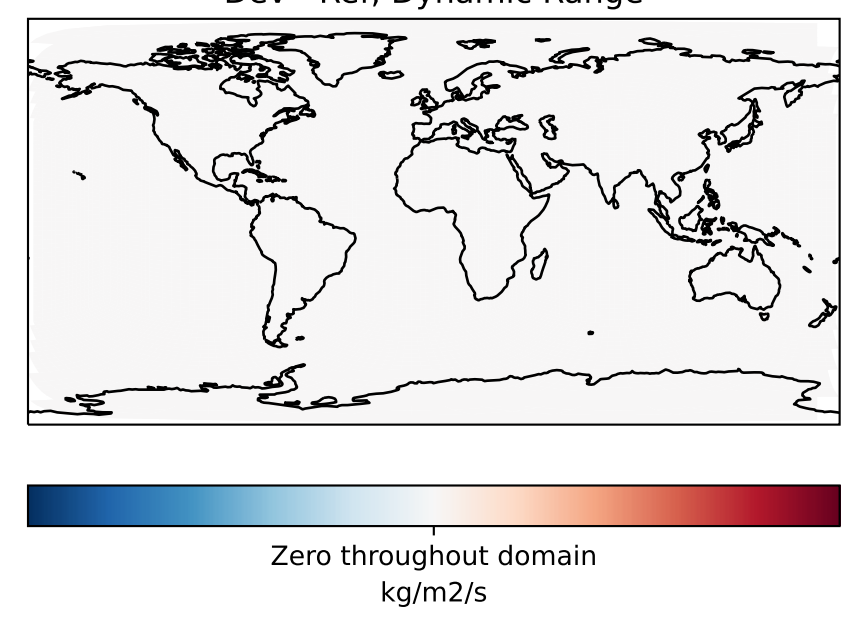
GCHP_13.2.0 (Ref)
c48



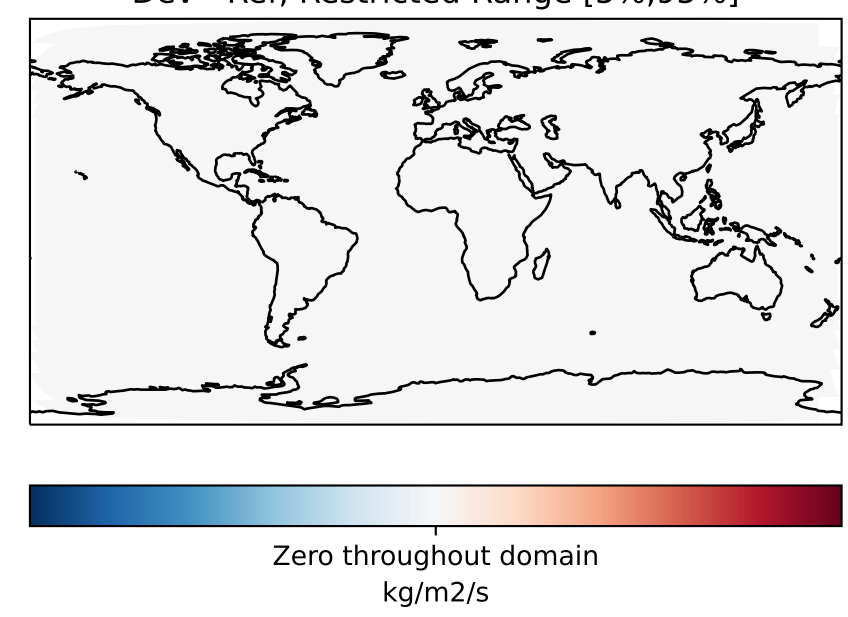

GCHP_13.2.0-LuoWetdep (Dev)
c48



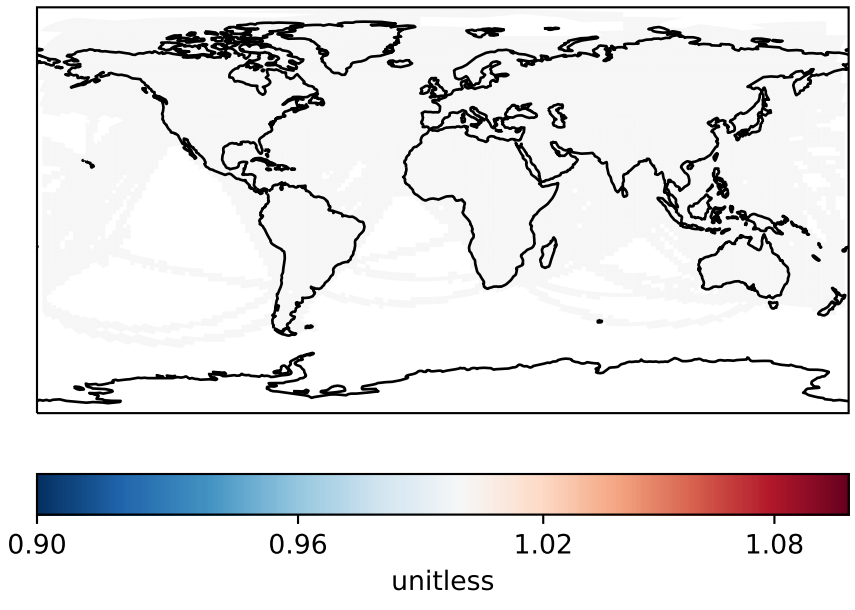

Difference
Dev - Ref, Dynamic Range



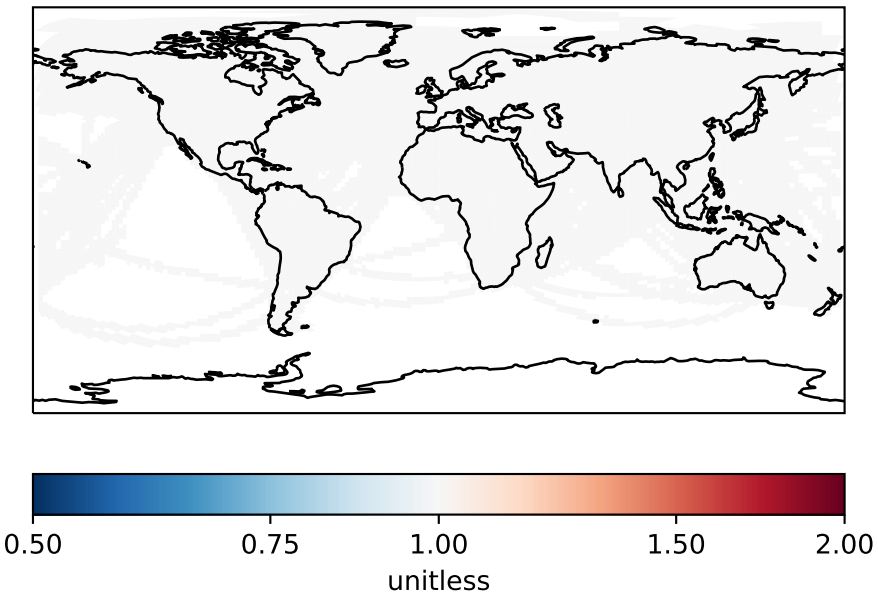

Difference
Dev - Ref, Restricted Range [5%,95%]




Ratio
Dev/Ref, Dynamic Range

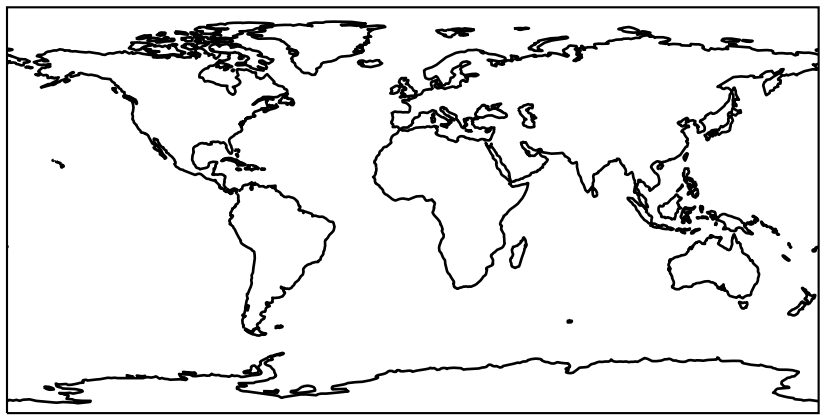



Ratio
Dev/Ref, Fixed Range



# EmisACET_Anthro (Apr2019)

GCHP_13.2.0 (Ref)
c48



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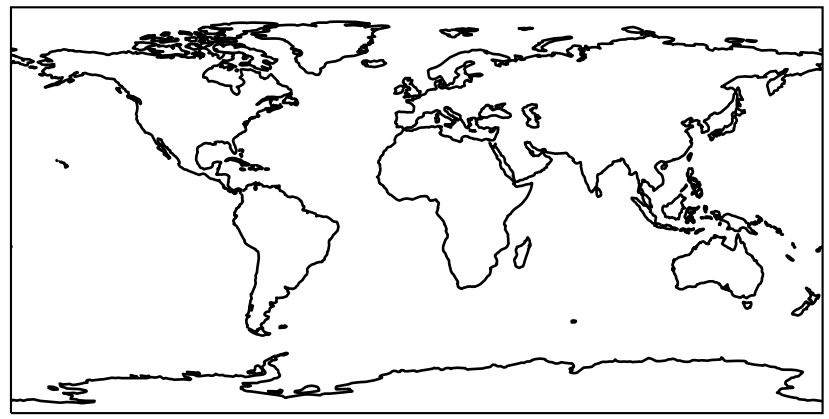
kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



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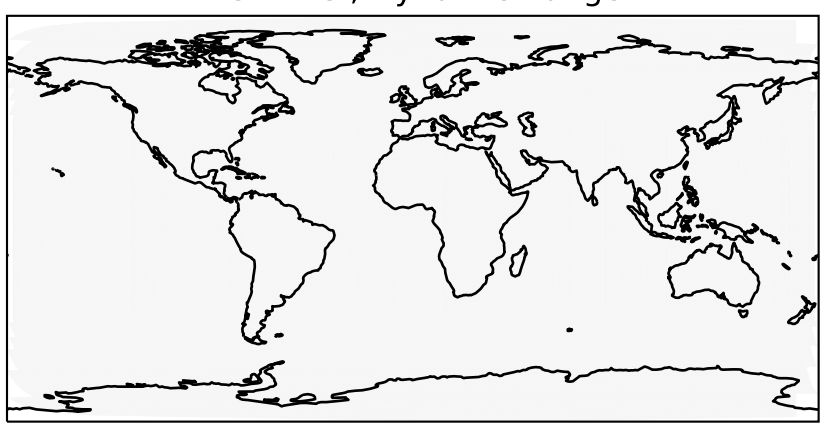
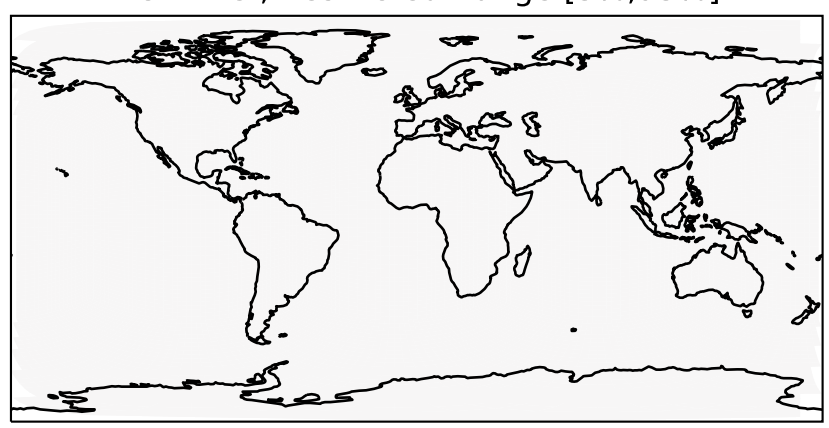
kg/m2/s

Difference
Dev - Ref, Dynamic Range



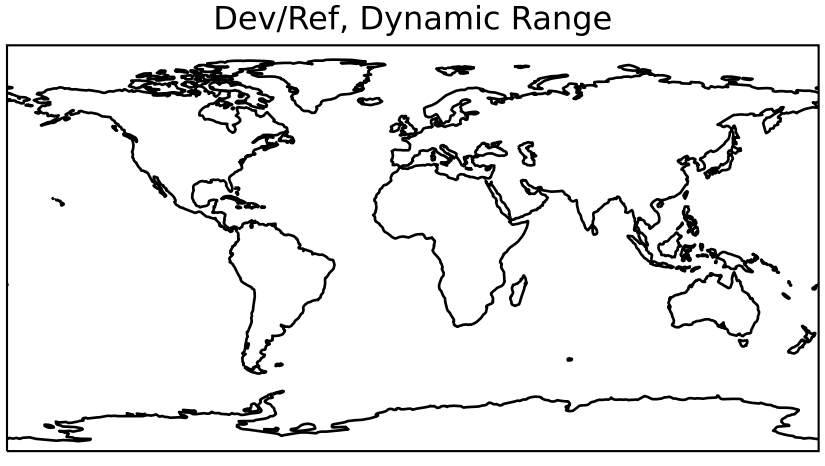
Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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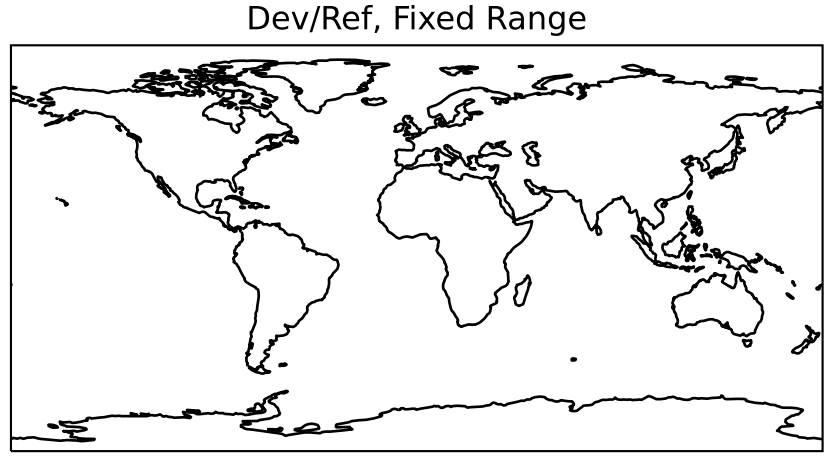
Ratio
Dev/Ref, Fixed Range



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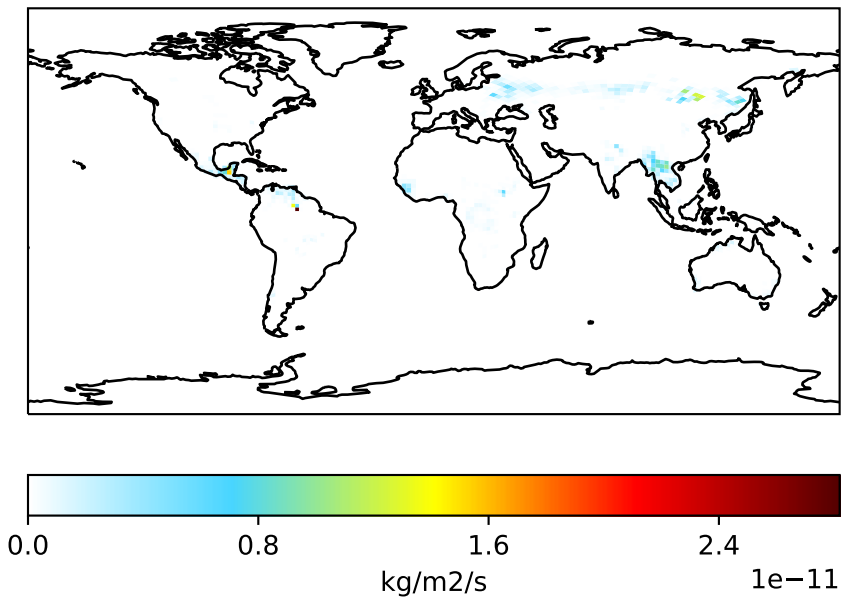
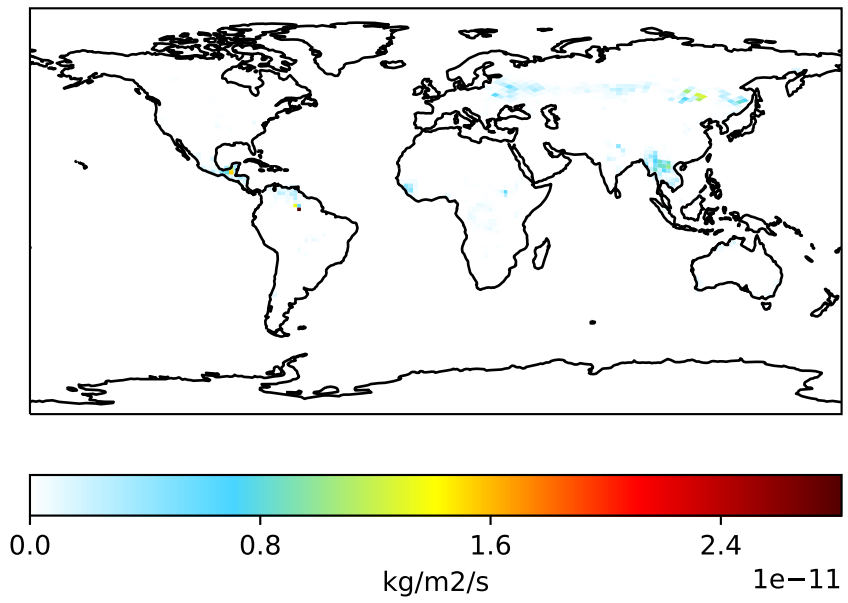
# EmisACET_BioBurn (Apr2019)

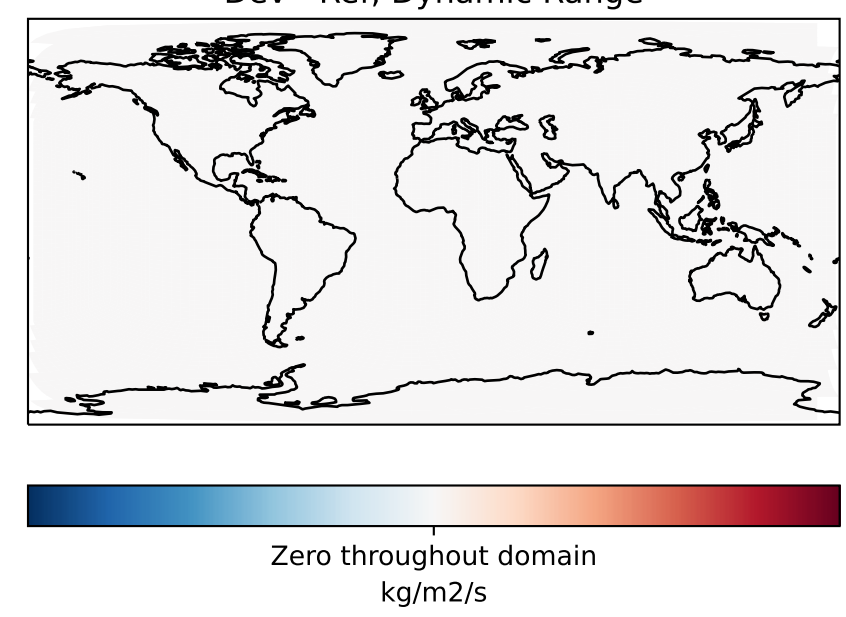
GCHP_13.2.0 (Ref)
c48



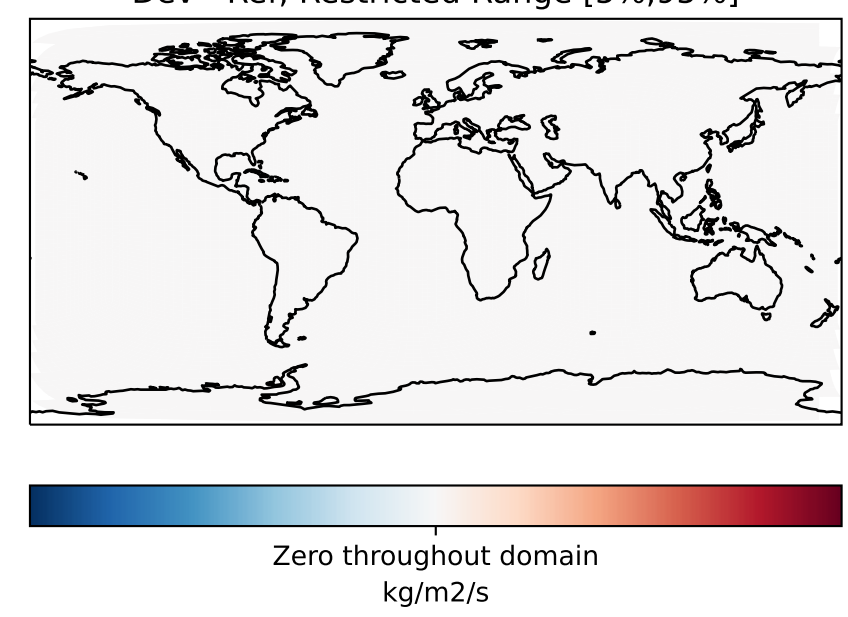

GCHP_13.2.0-LuoWetdep (Dev)
c48



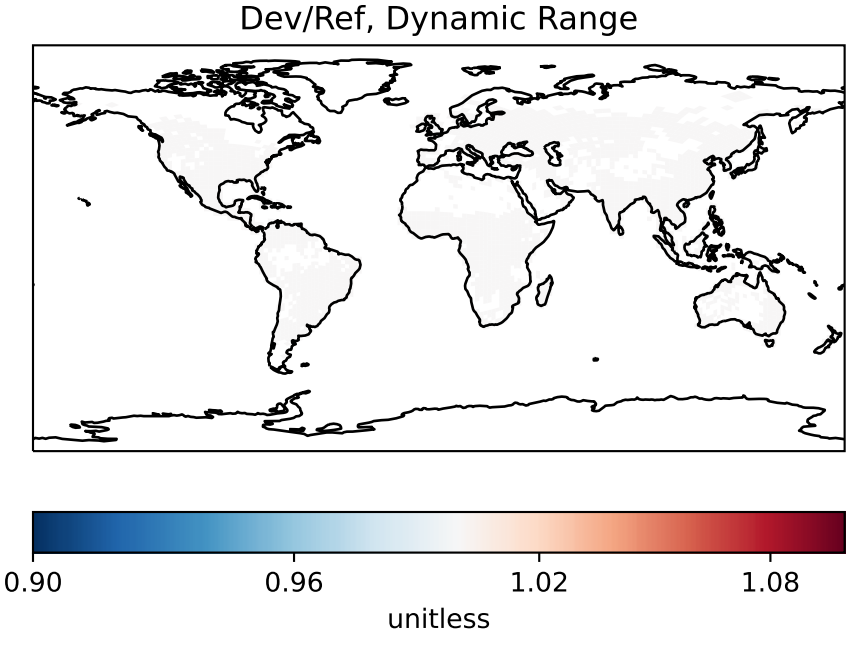

Difference
Dev - Ref, Dynamic Range



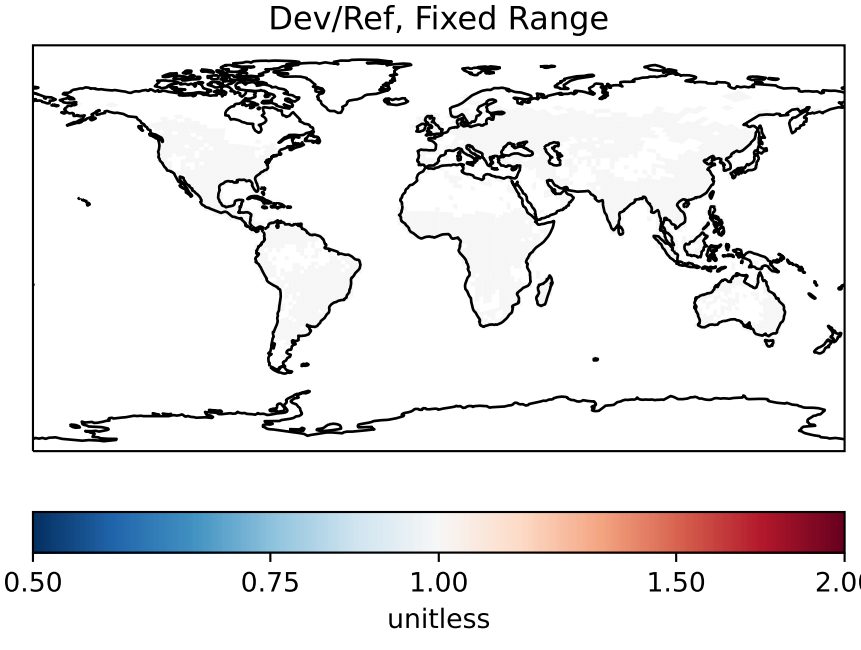

Difference
Dev - Ref, Restricted Range [5%,95%]




Ratio
Dev/Ref, Dynamic Range

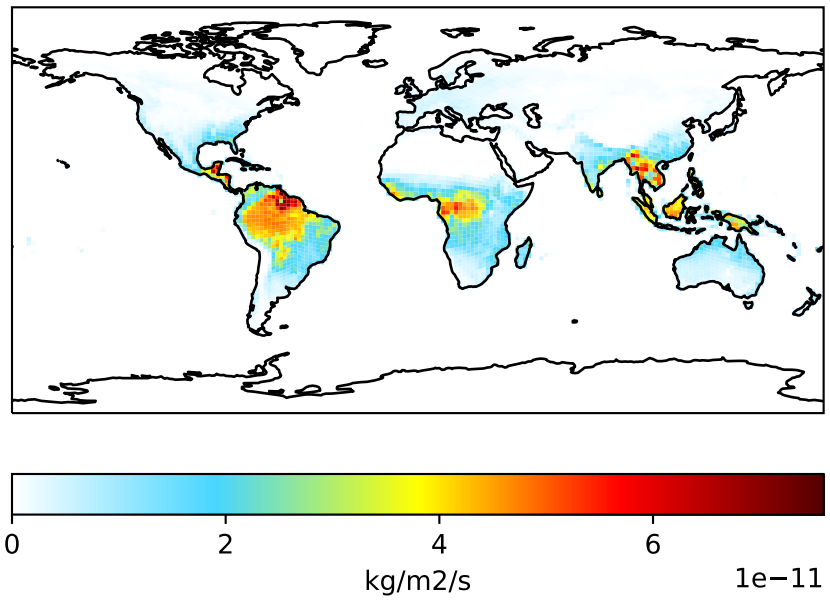



Ratio
Dev/Ref, Fixed Range

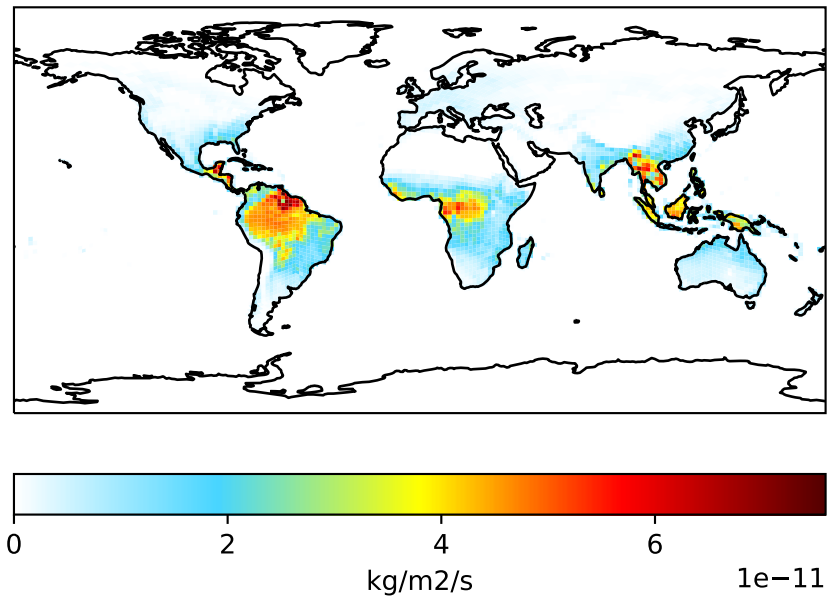


# EmisACET_Biogenic (Apr2019)

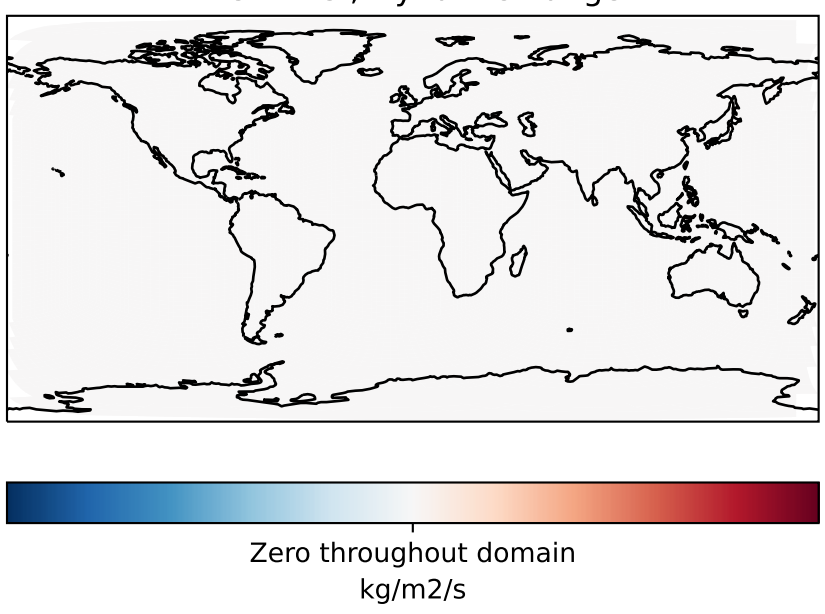
GCHP_13.2.0 (Ref)
c48



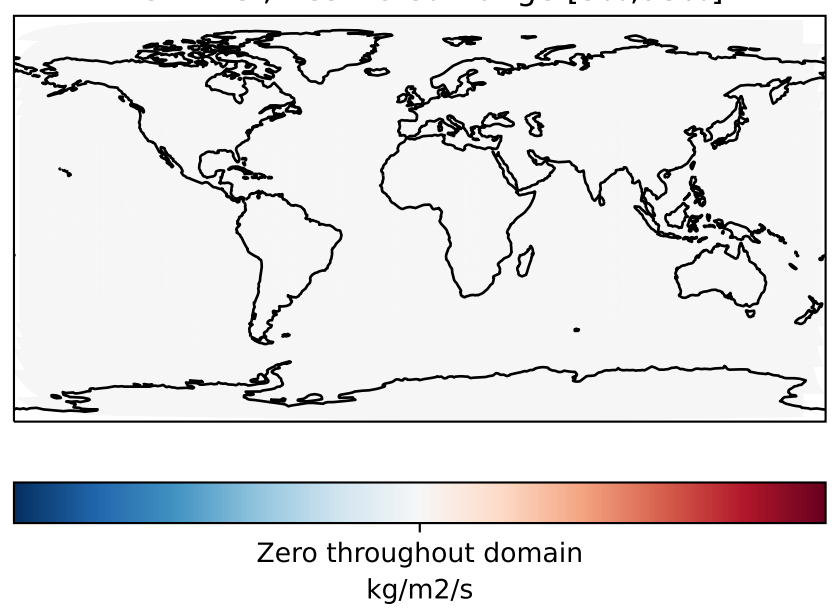

GCHP_13.2.0-LuoWetdep (Dev)
c48



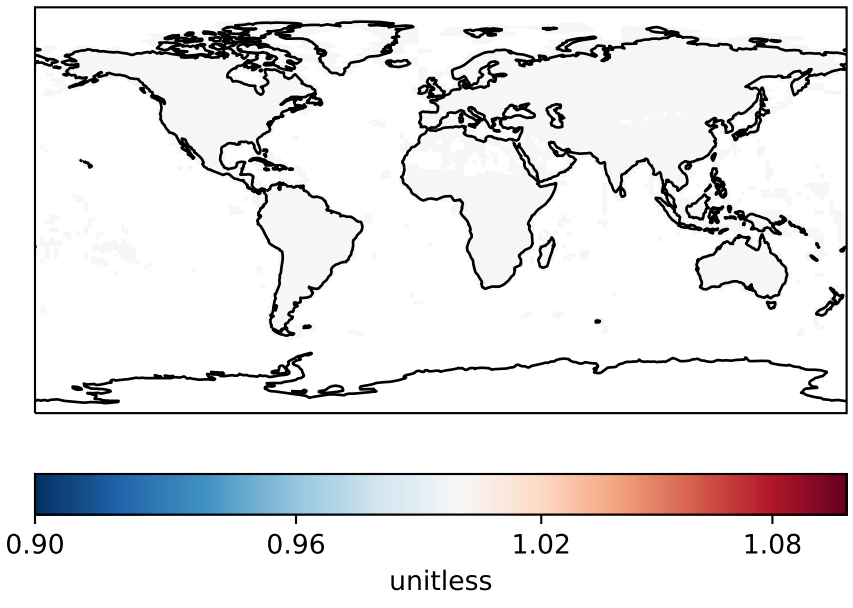

Difference
Dev - Ref, Dynamic Range



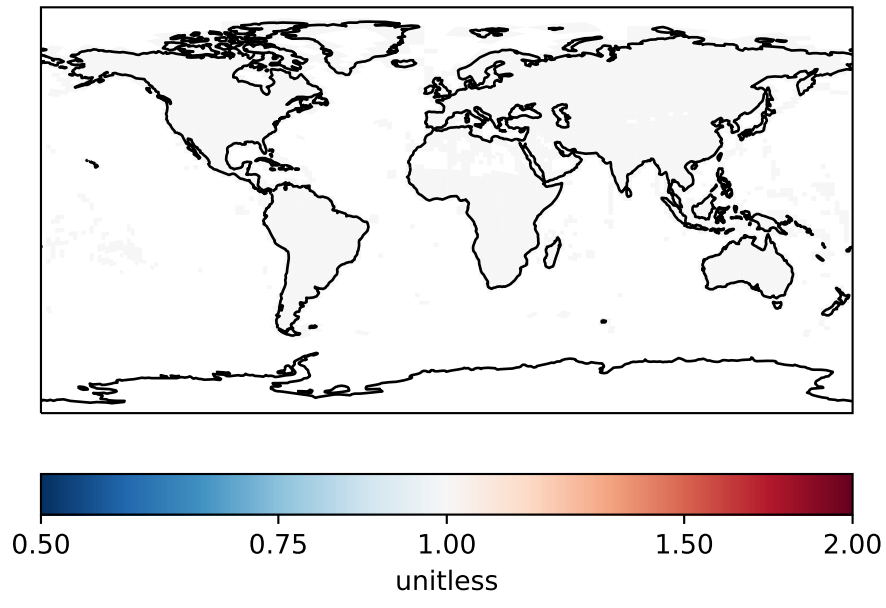

Difference
Dev - Ref, Restricted Range [5%,95%]




Ratio
Dev/Ref, Dynamic Range

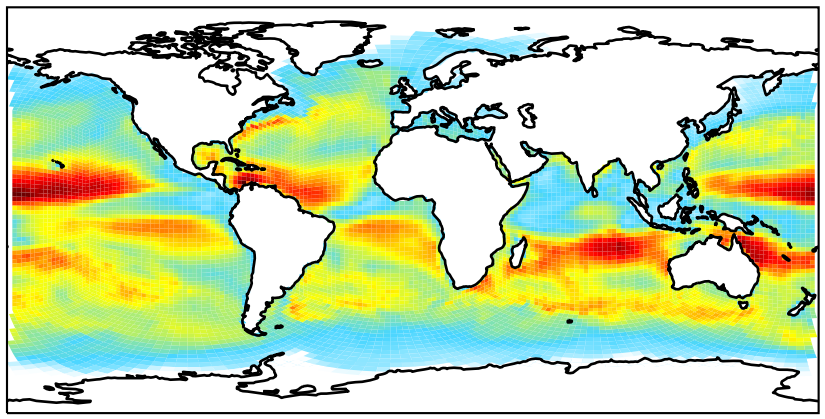



Ratio
Dev/Ref, Fixed Range

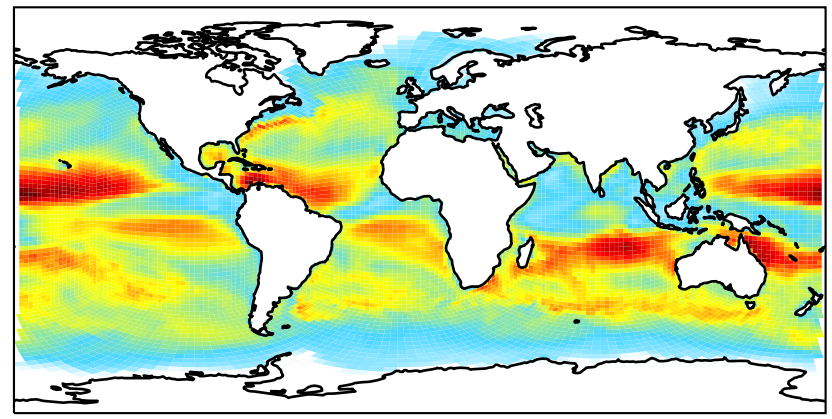


# EmisACET_Ocean (Apr2019)

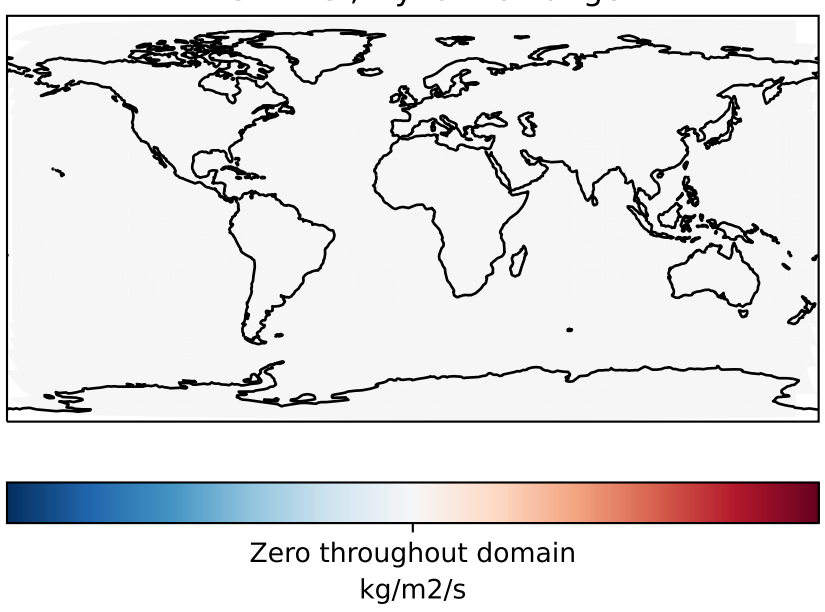
GCHP_13.2.0 (Ref)
c48



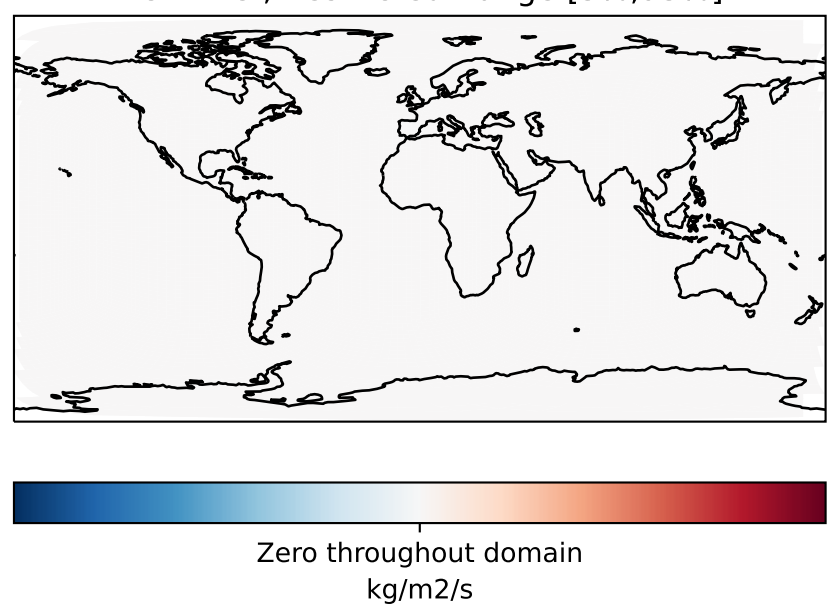

GCHP_13.2.0-LuoWetdep (Dev)
c48



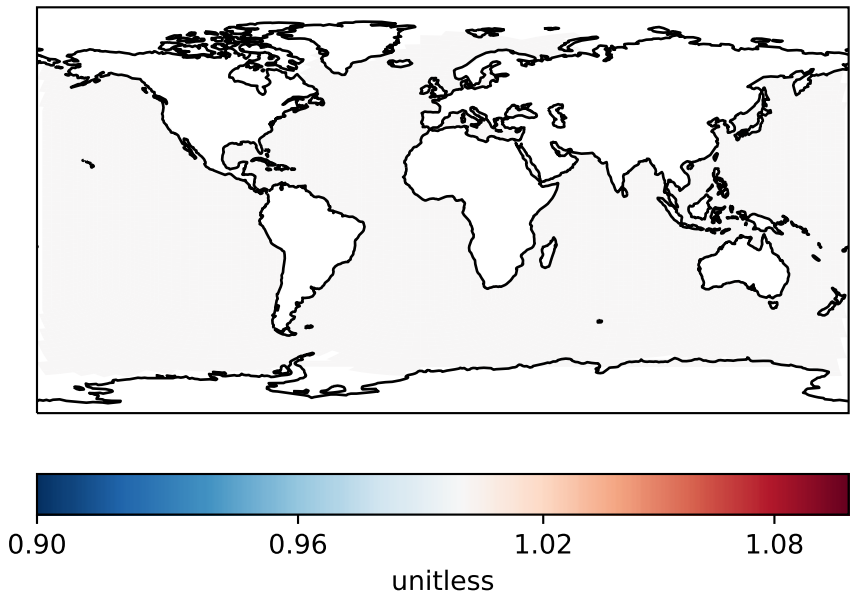

Difference
Dev - Ref, Dynamic Range



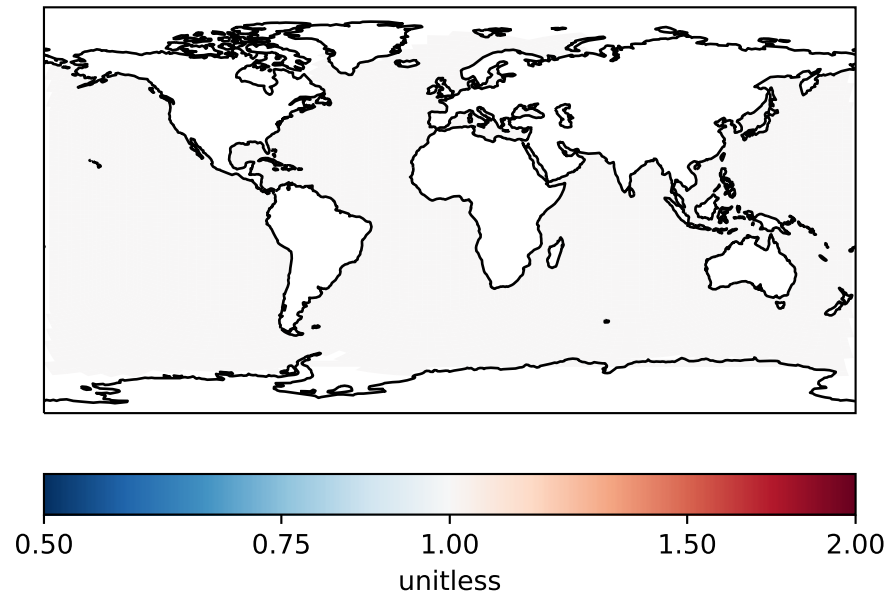

Difference
Dev - Ref, Restricted Range [5%,95%]




Ratio
Dev/Ref, Dynamic Range

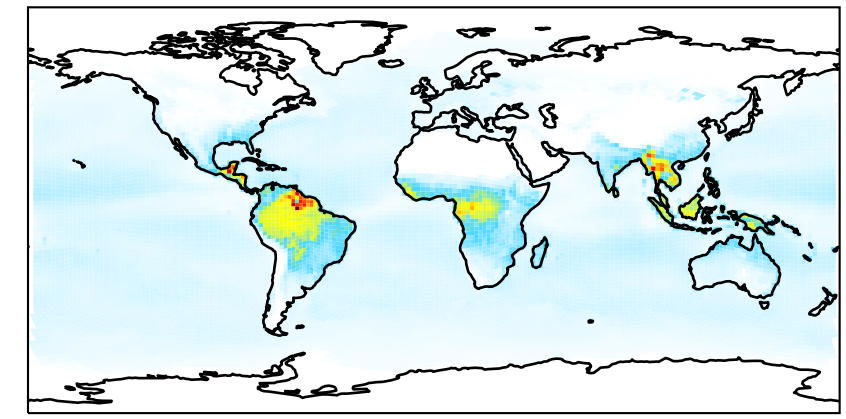


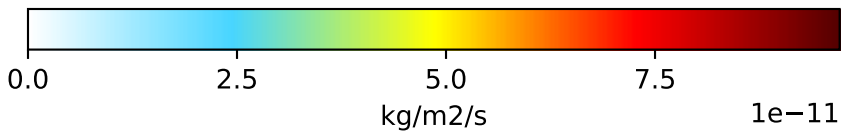

Ratio
Dev/Ref, Fixed Range



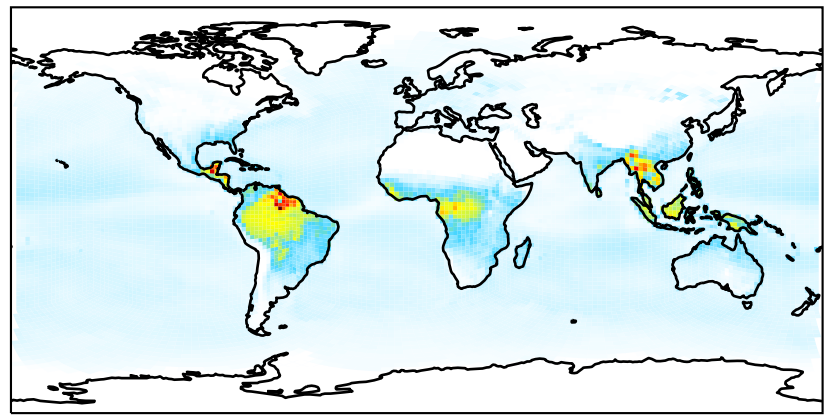
# EmisACET_Total (Apr2019)

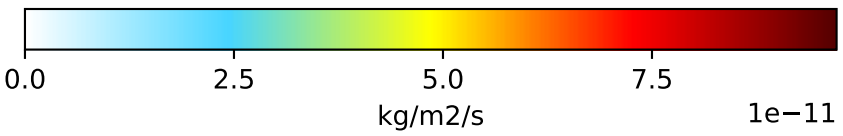
GCHP_13.2.0 (Ref)
c48



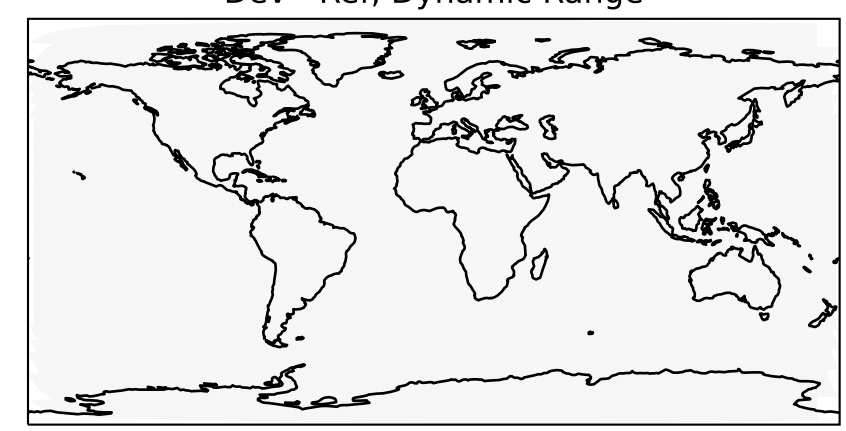


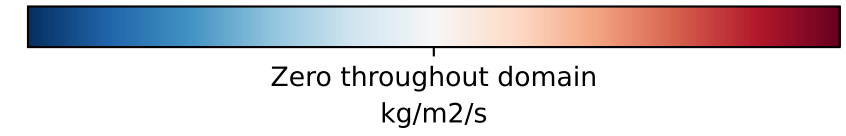

GCHP_13.2.0-LuoWetdep (Dev)
c48



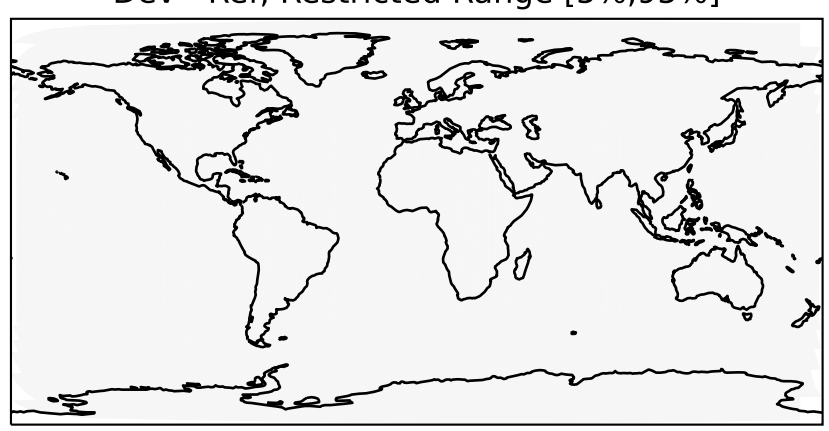


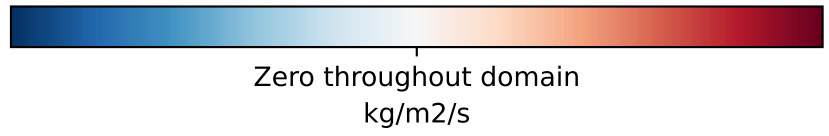

Difference
Dev - Ref, Dynamic Range



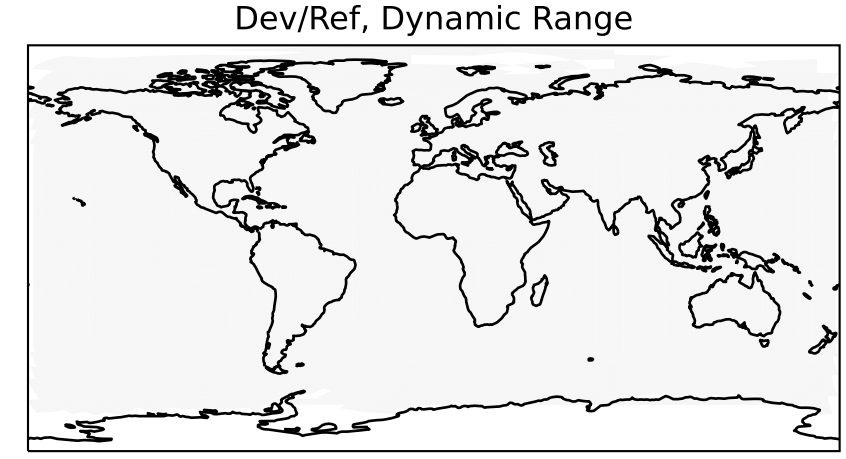


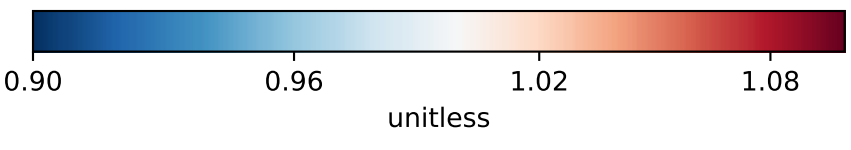

Difference
Dev - Ref, Restricted Range [5%,95%]



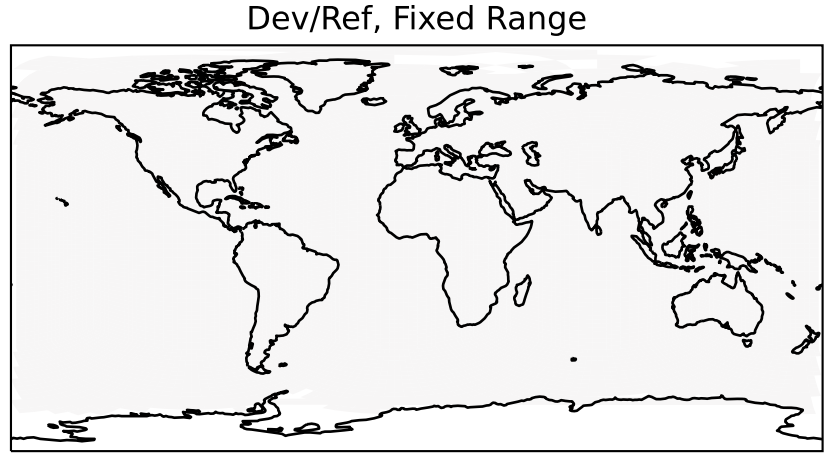


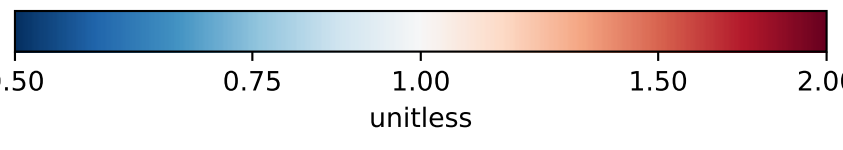

Ratio
Dev/Ref, Dynamic Range





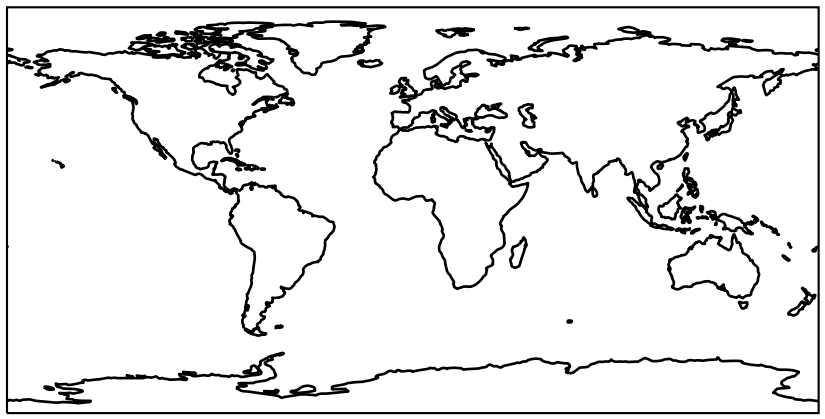

Ratio
Dev/Ref, Fixed Range





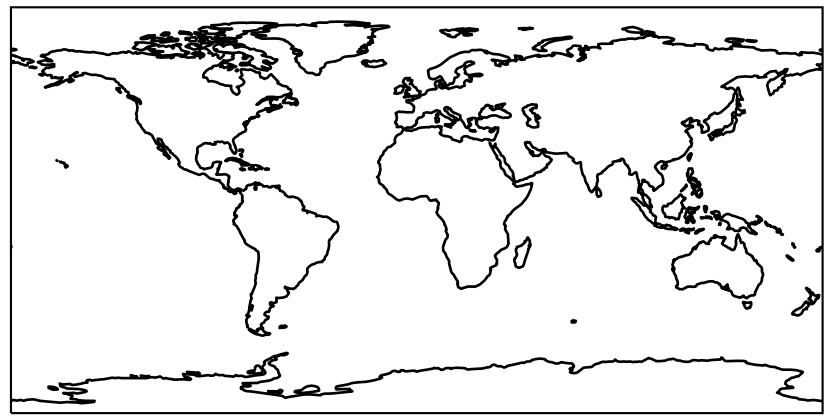
# EmisHAC_Anthro (Apr2019)

GCHP_13.2.0 (Ref)
c48



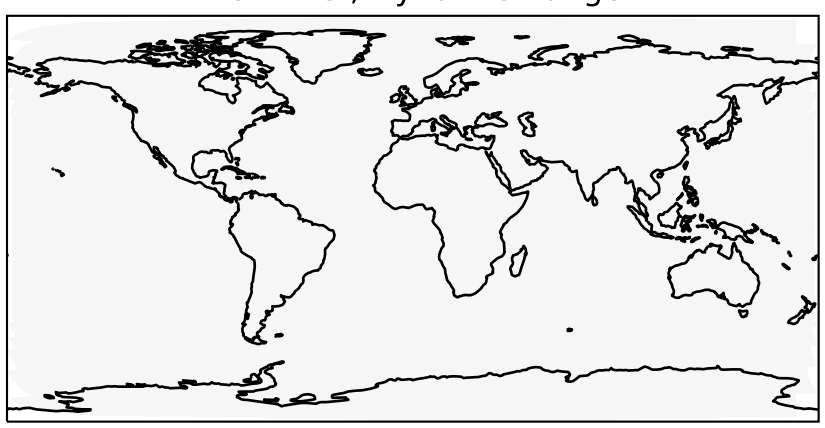
Zero throughout domain
kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



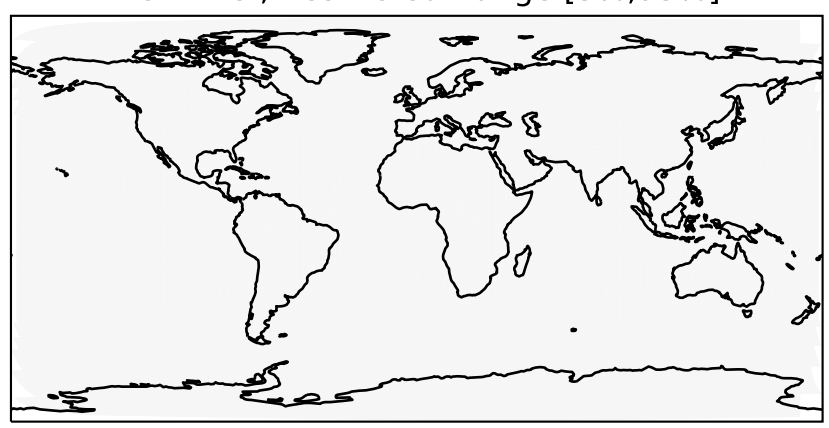
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



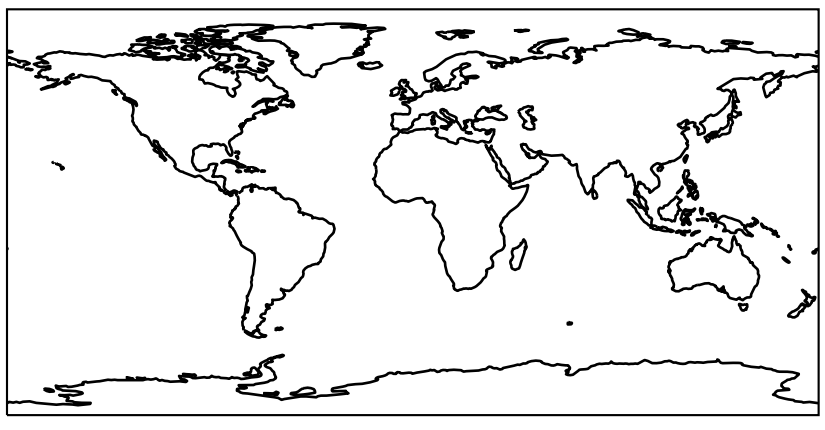
Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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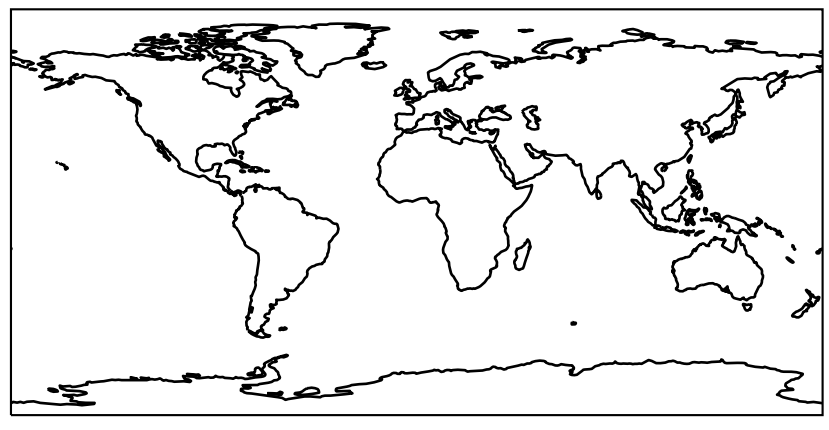
Ratio
Dev/Ref, Fixed Range



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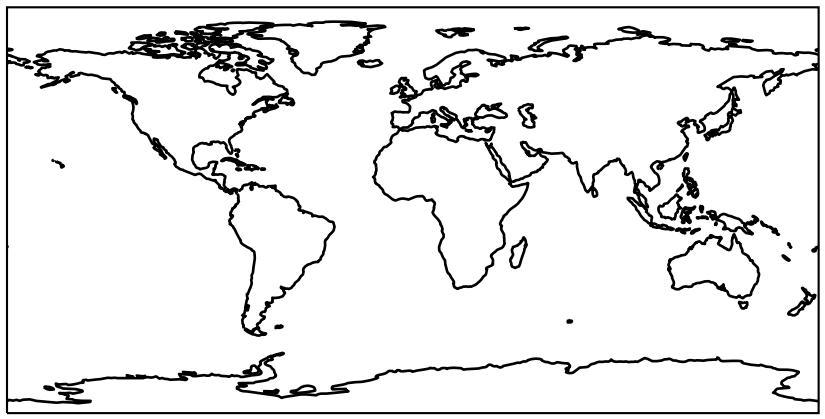
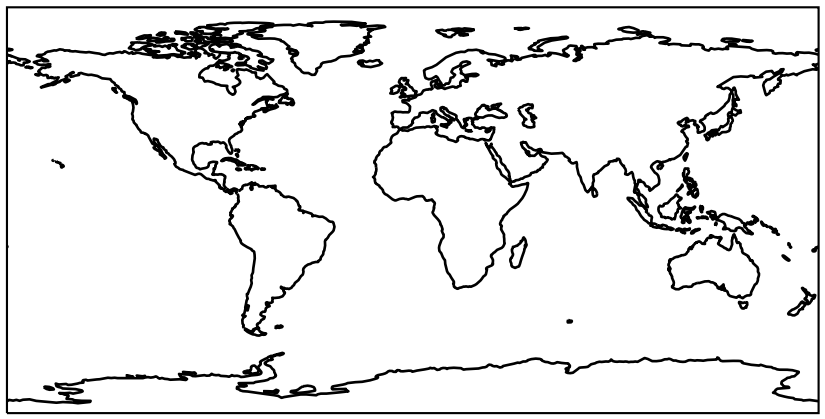
# EmisHAC_Total (Apr2019)

GCHP_13.2.0 (Ref)
c48



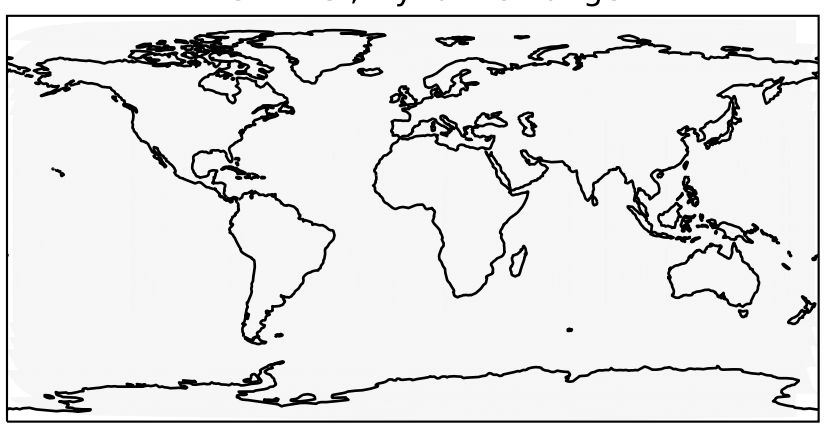
Zero throughout domain
kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



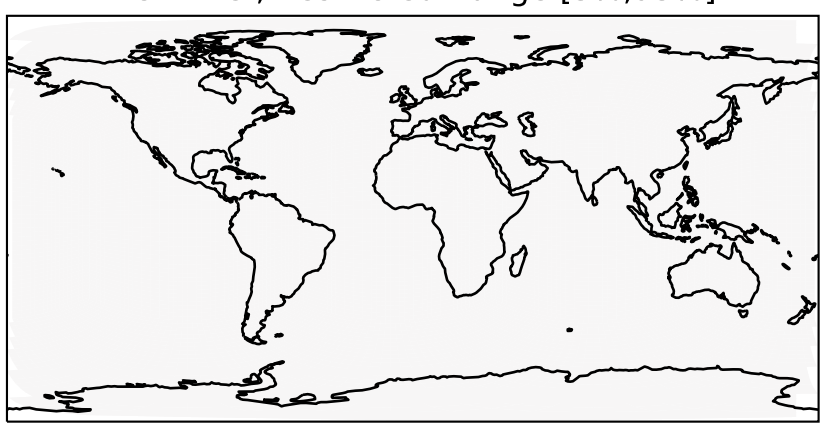
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



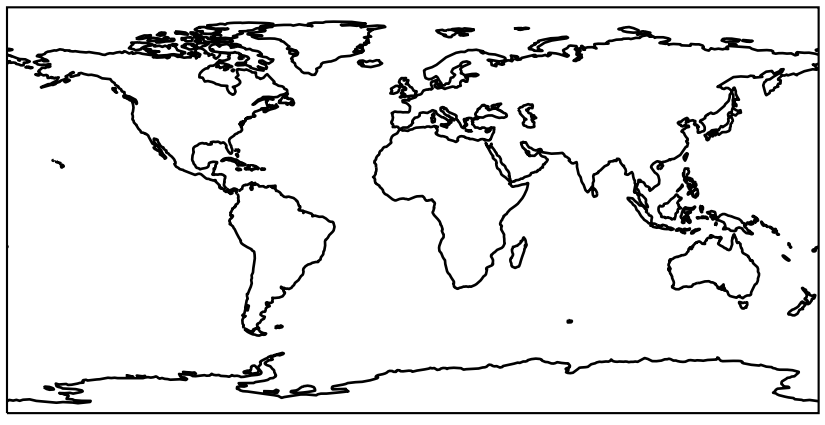
Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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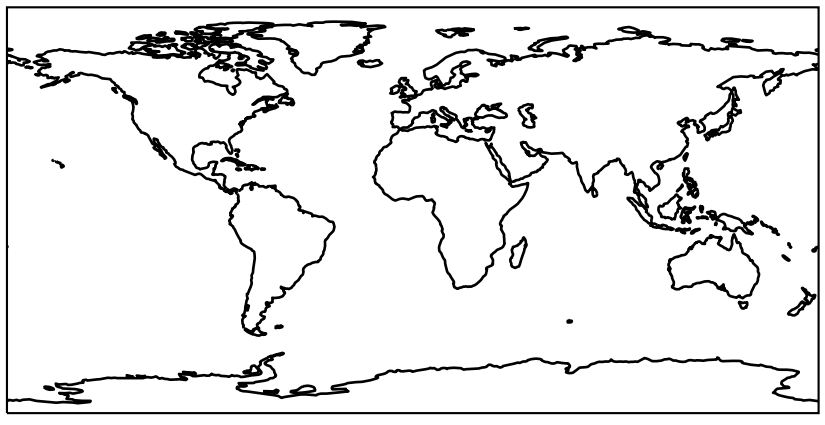
Ratio
Dev/Ref, Fixed Range



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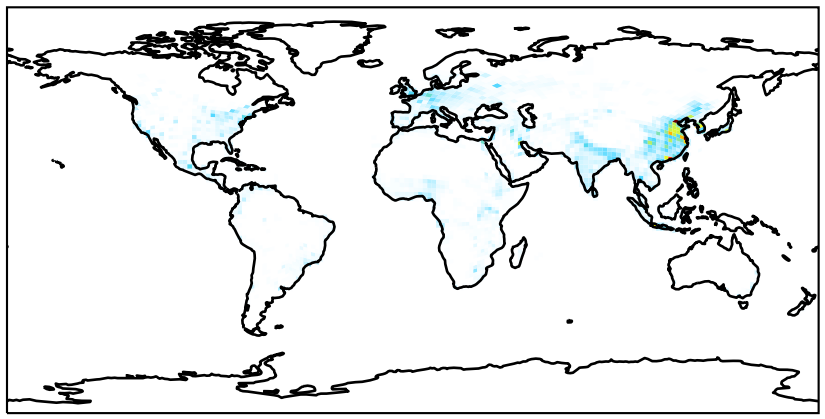
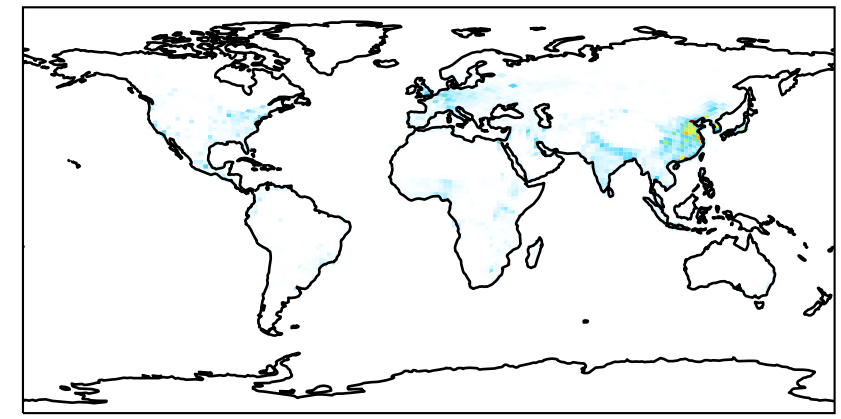
unitless

# EmisMEK_Anthro (Apr2019)

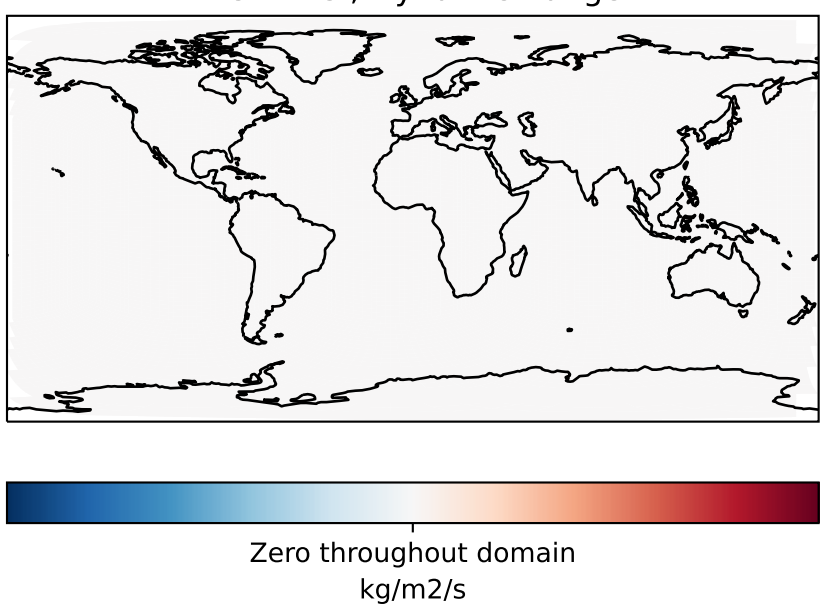
GCHP_13.2.0 (Ref)
c48



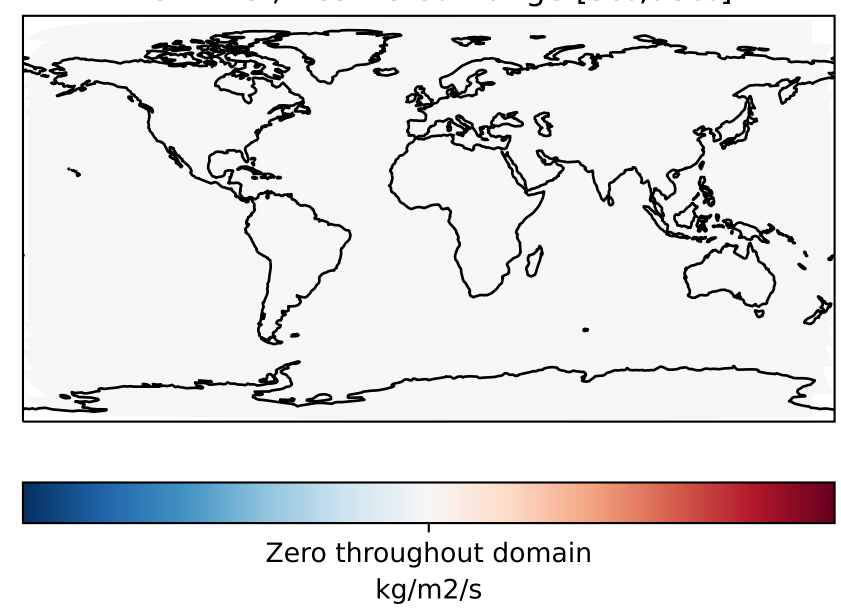

GCHP_13.2.0-LuoWetdep (Dev)
c48



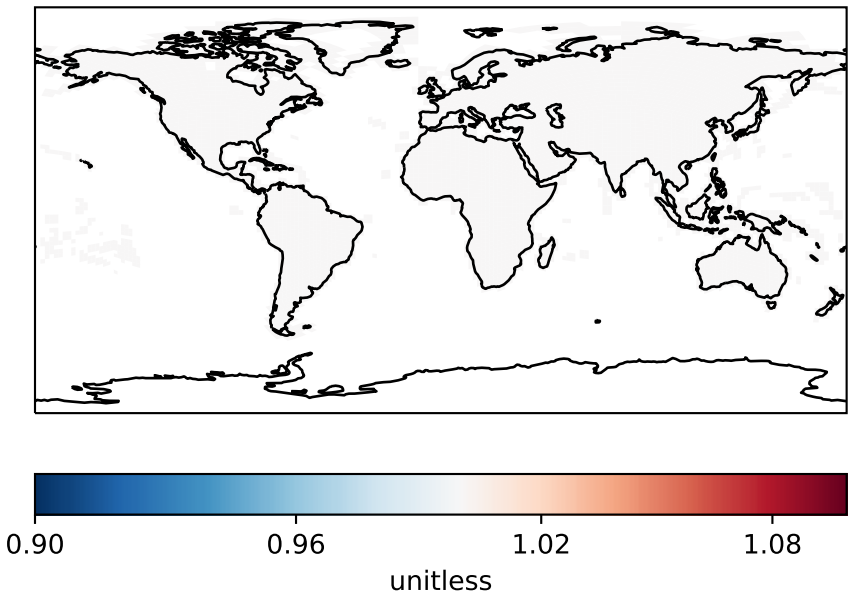

Difference
Dev - Ref, Dynamic Range



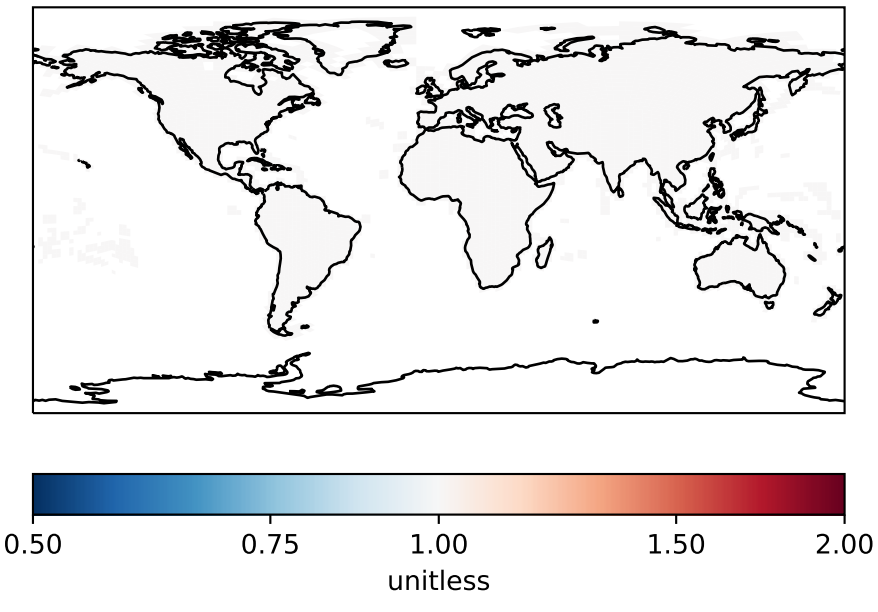

Difference
Dev - Ref, Restricted Range [5%,95%]




Ratio
Dev/Ref, Dynamic Range

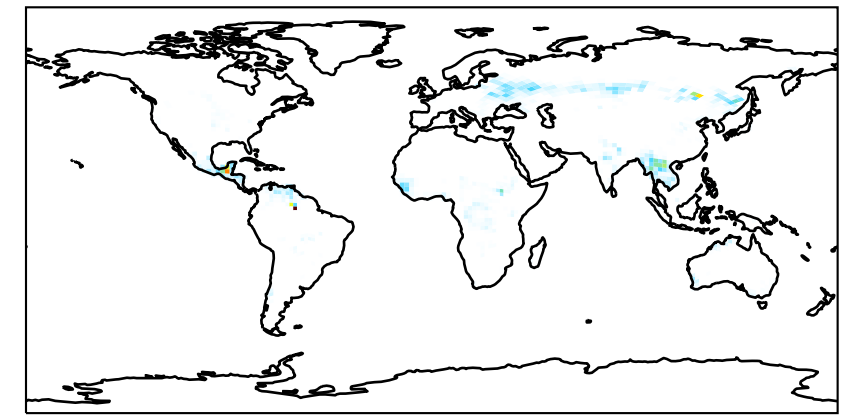


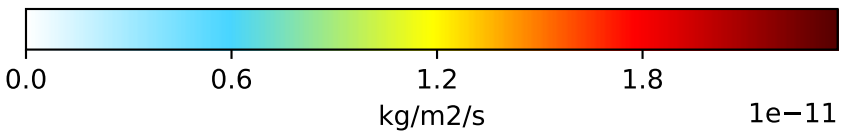

Ratio
Dev/Ref, Fixed Range



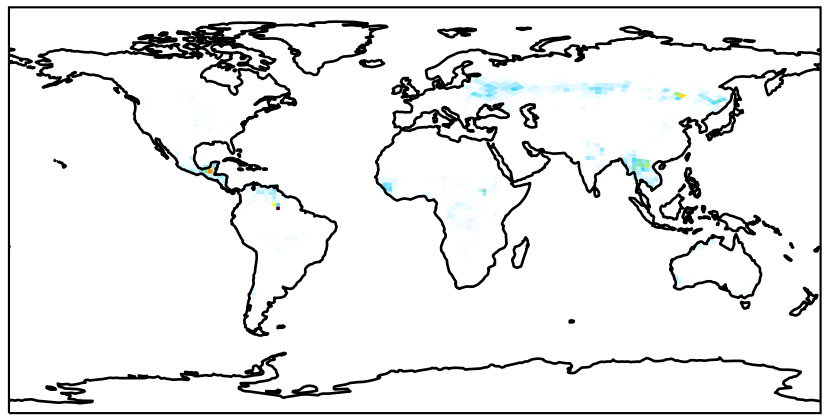
# EmisMEK_BioBurn (Apr2019)

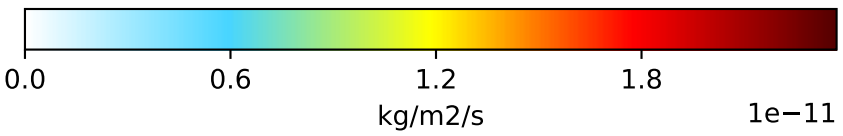
GCHP_13.2.0 (Ref)
c48



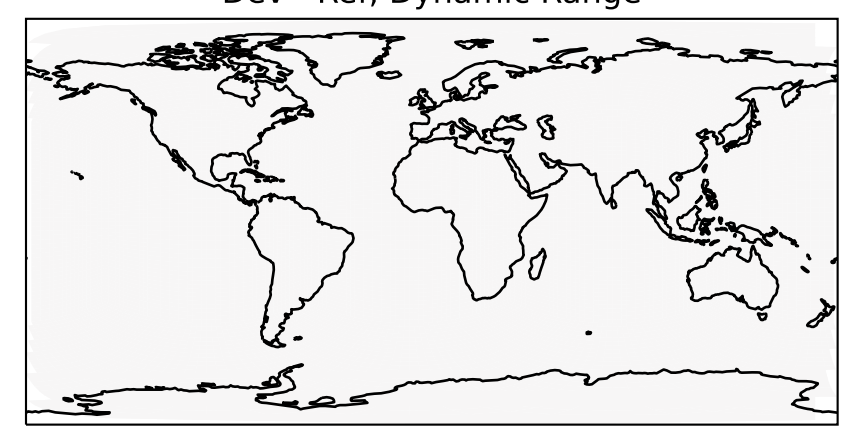


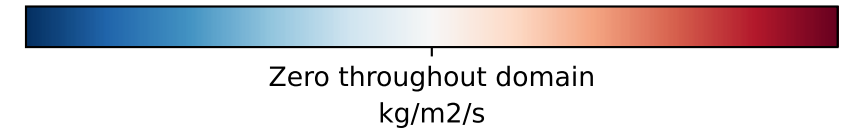

GCHP_13.2.0-LuoWetdep (Dev)
c48



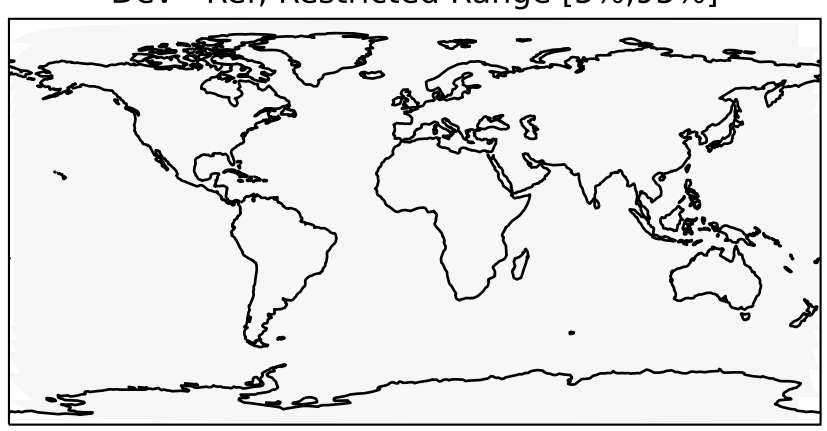


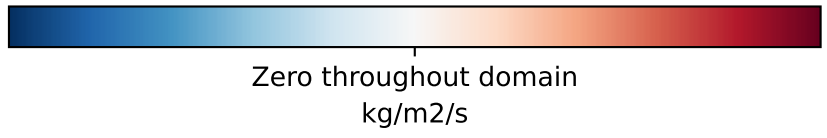

Difference
Dev - Ref, Dynamic Range



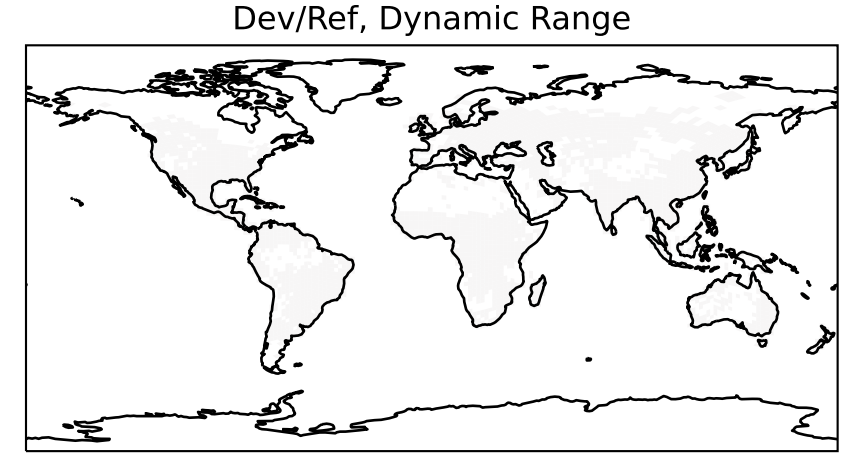


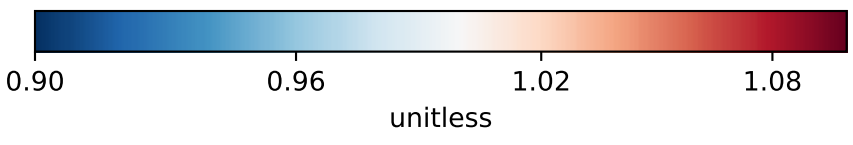

Difference
Dev - Ref, Restricted Range [5%,95%]



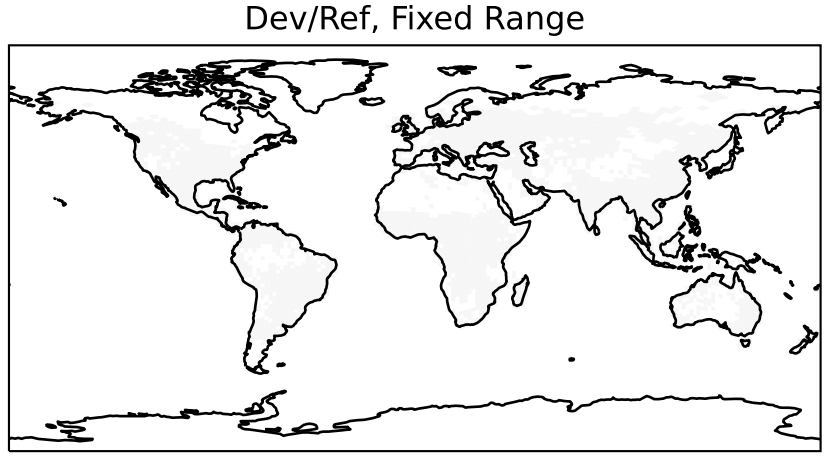


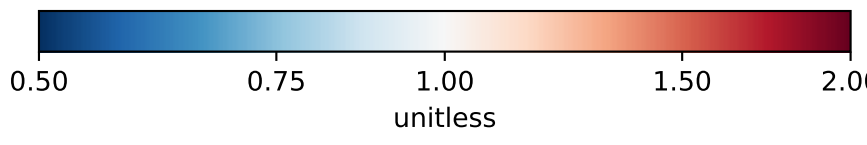

Ratio
Dev/Ref, Dynamic Range





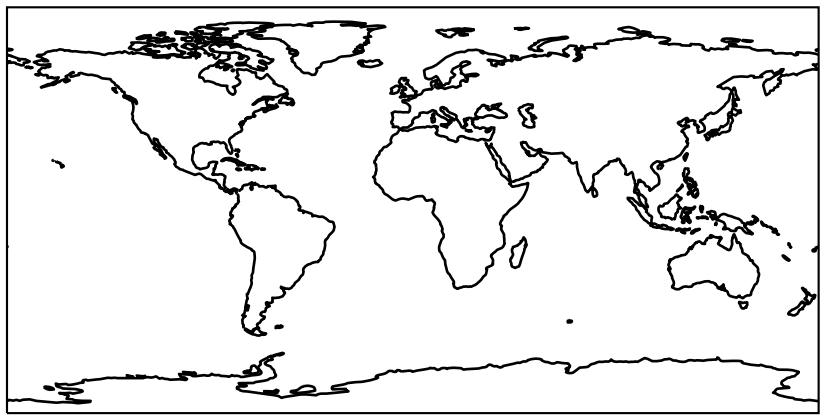

Ratio
Dev/Ref, Fixed Range





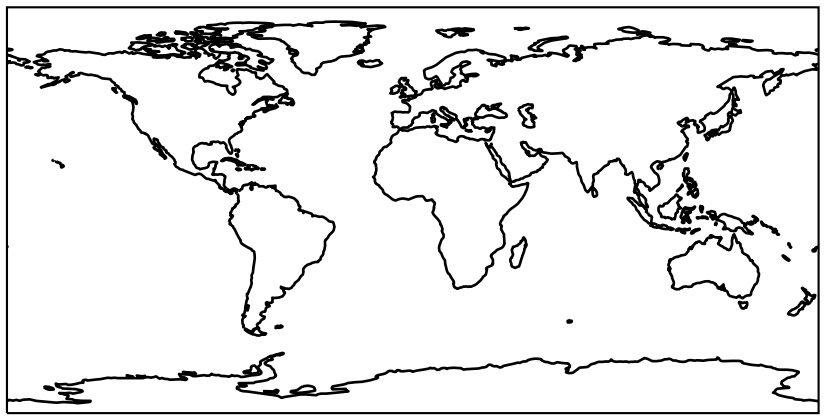
# EmisMEK_Ship (Apr2019)

GCHP_13.2.0 (Ref)
c48



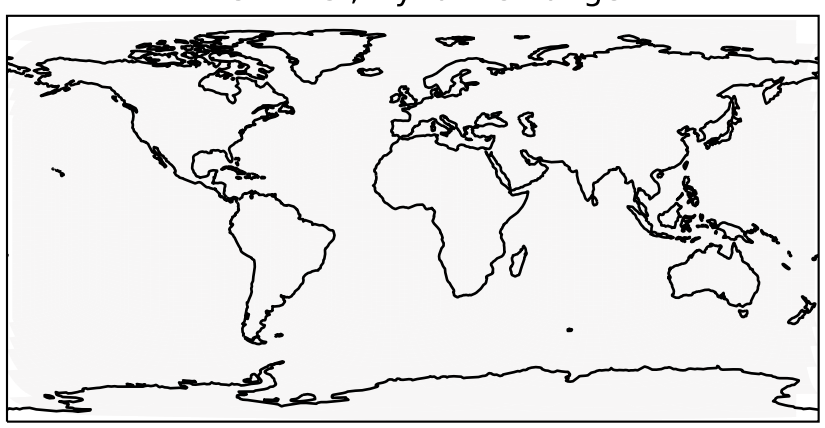
Zero throughout domain
kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



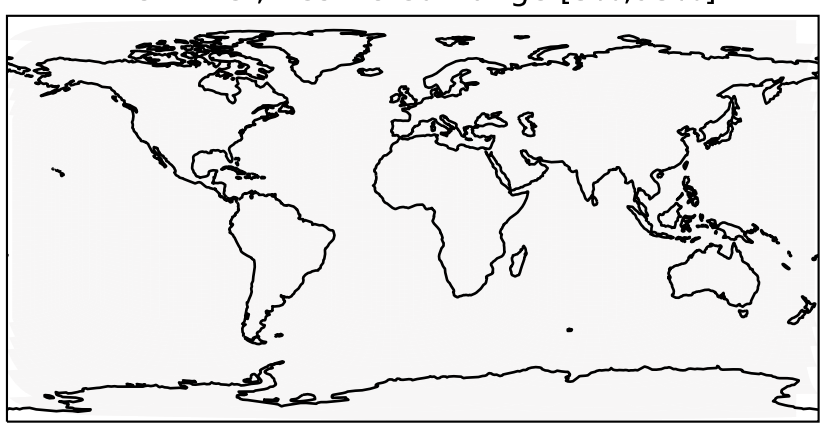
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



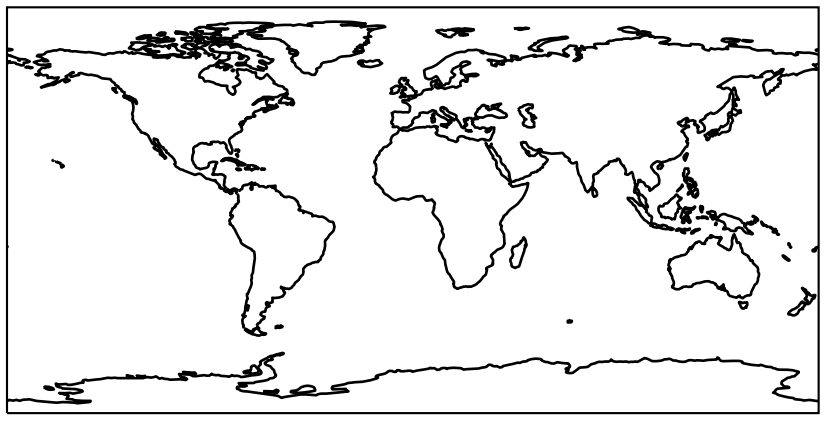
Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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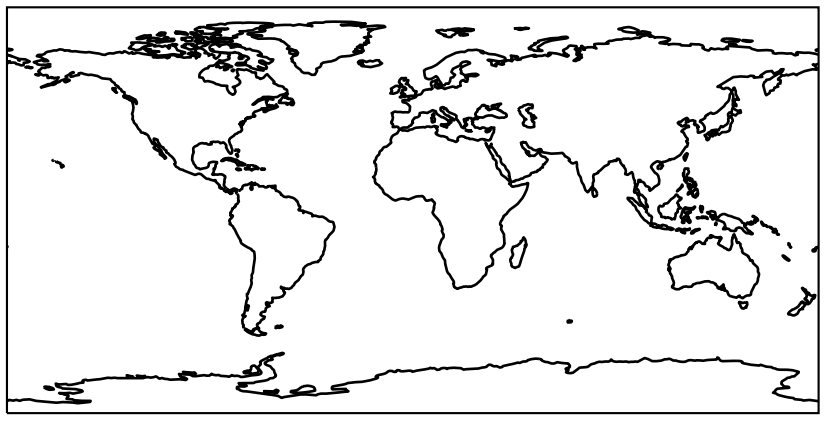
Ratio
Dev/Ref, Fixed Range



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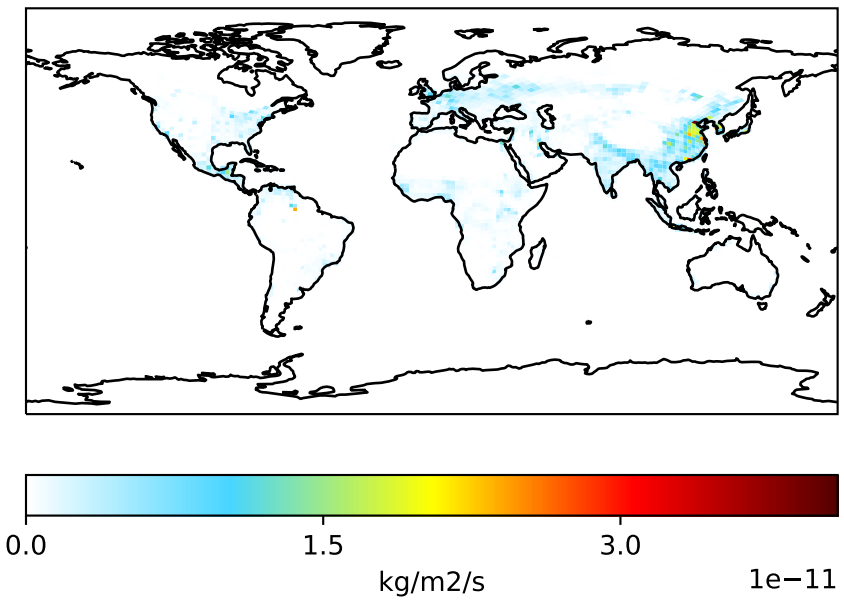
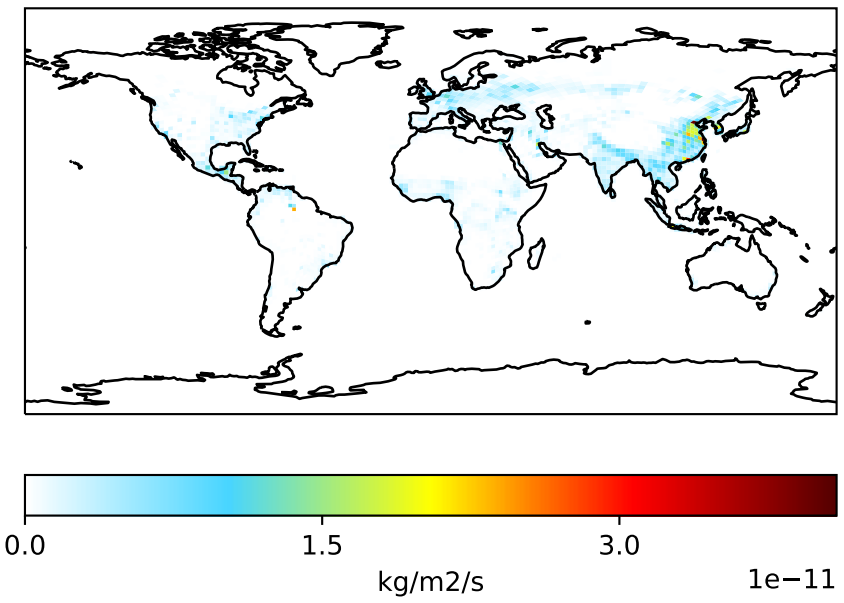
# EmisMEK_Total (Apr2019)

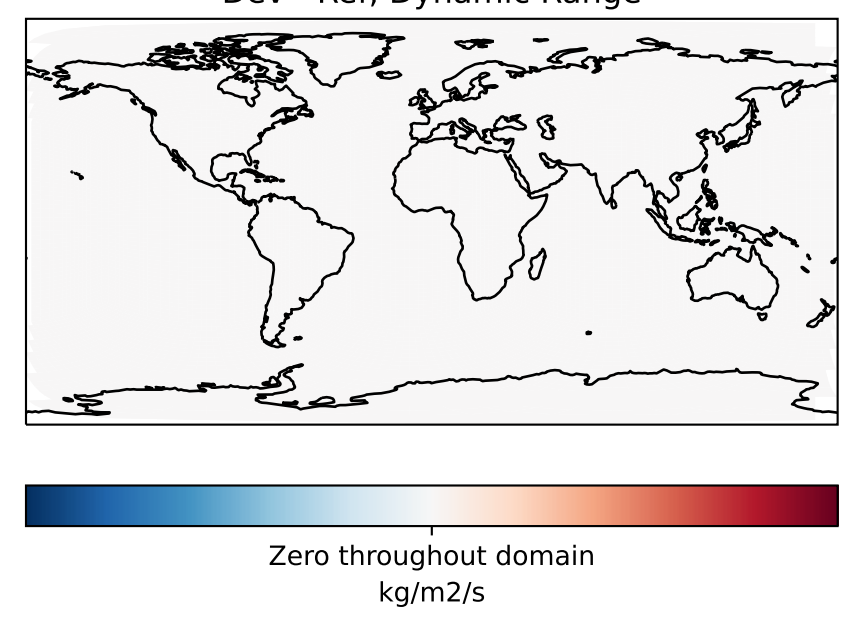
GCHP_13.2.0 (Ref)
c48



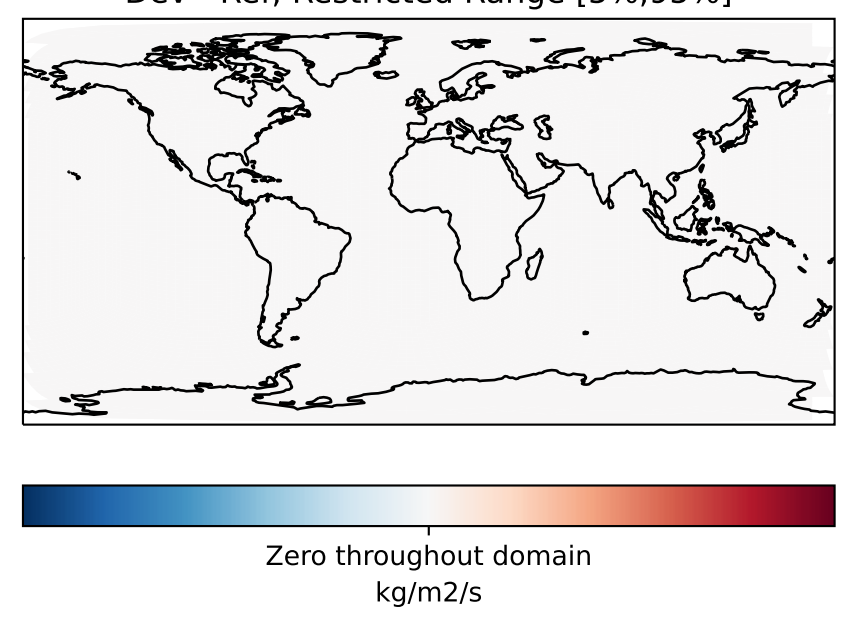

GCHP_13.2.0-LuoWetdep (Dev)
c48



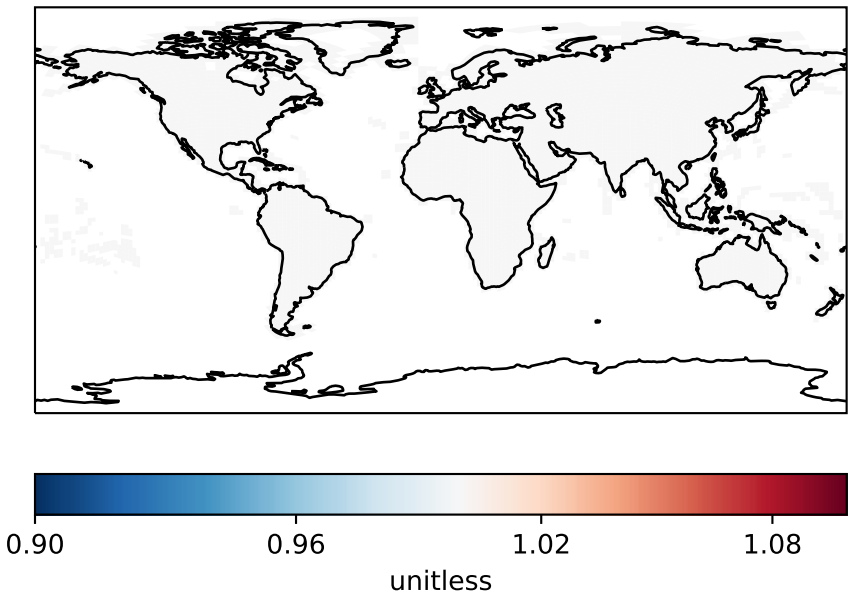

Difference
Dev - Ref, Dynamic Range



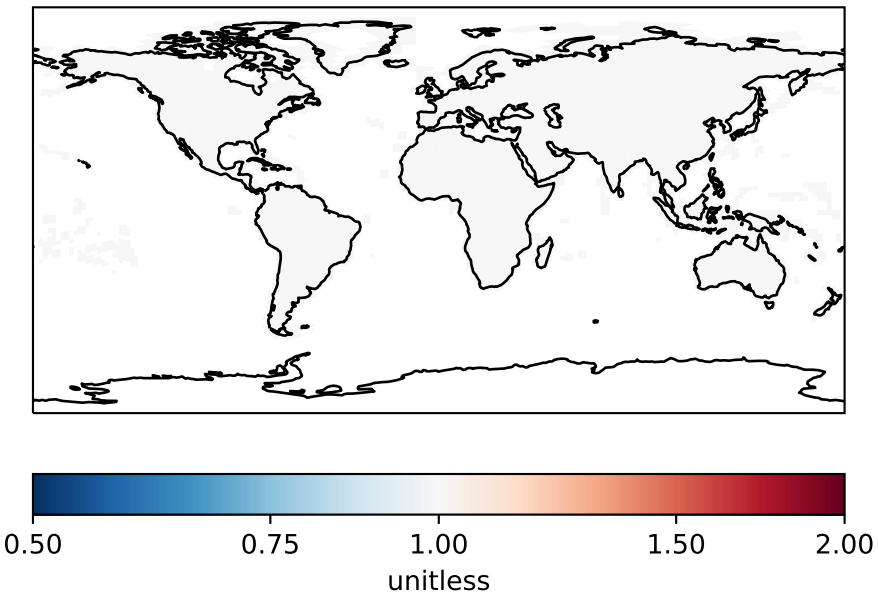

Difference
Dev - Ref, Restricted Range [5%,95%]




Ratio
Dev/Ref, Dynamic Range

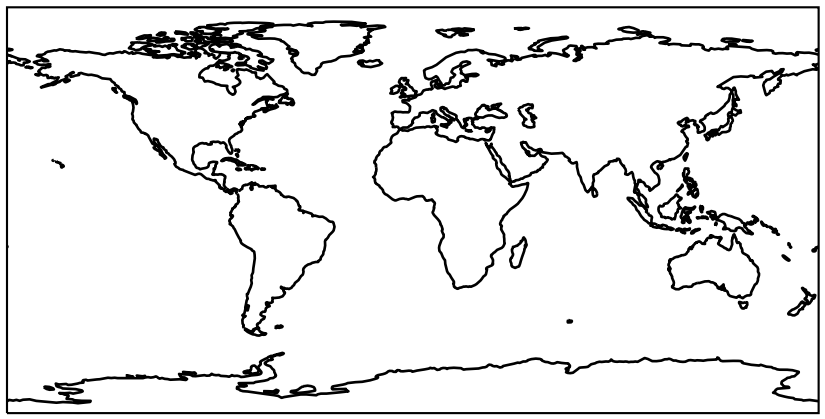



Ratio
Dev/Ref, Fixed Range



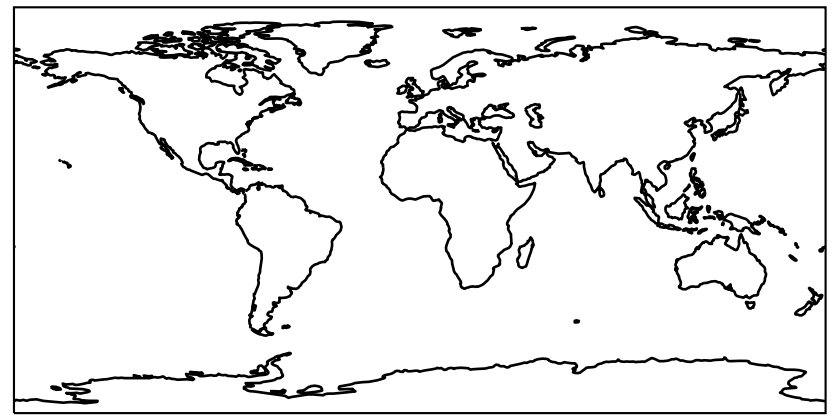
# EmisMVK_Anthro (Apr2019)

GCHP_13.2.0 (Ref)
c48



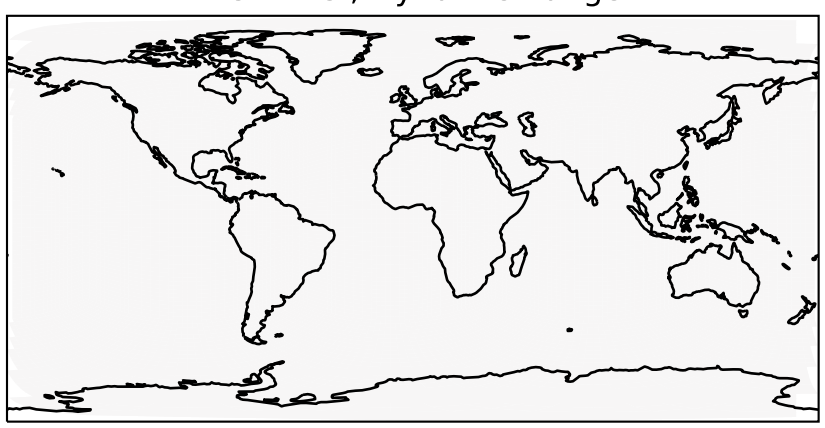
Zero throughout domain
kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



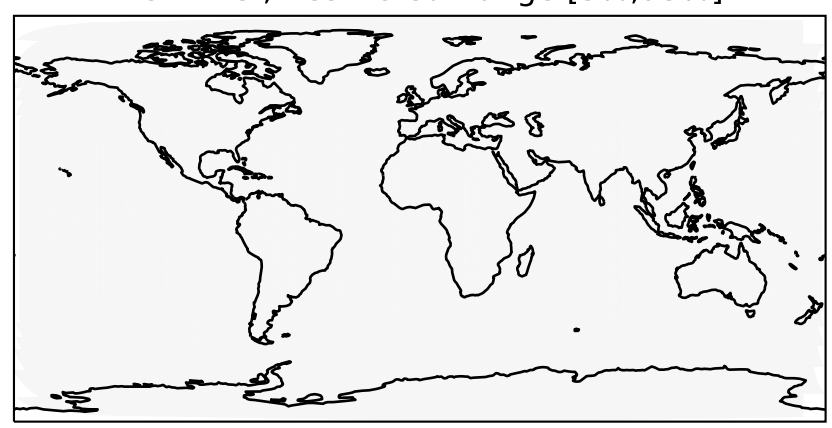
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



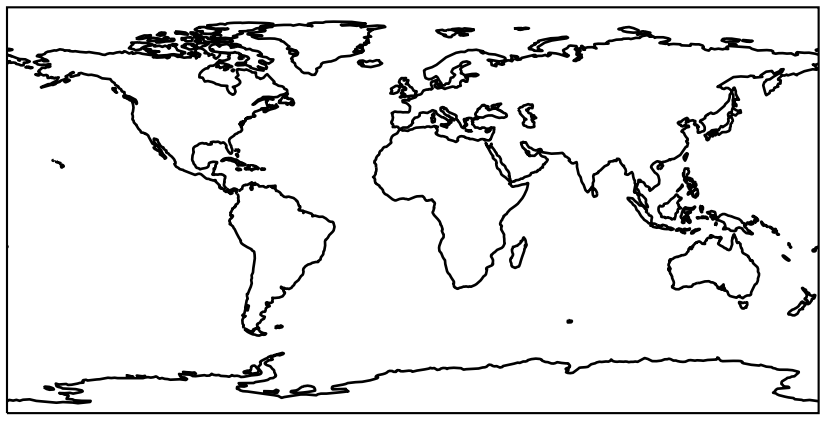
Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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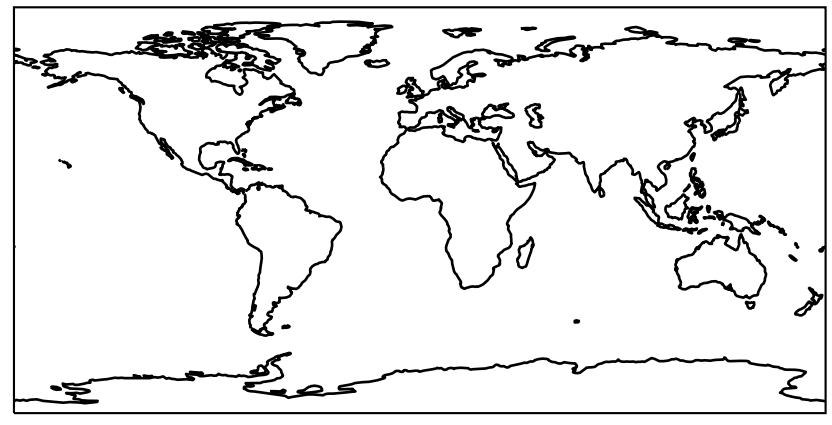
Ratio
Dev/Ref, Fixed Range



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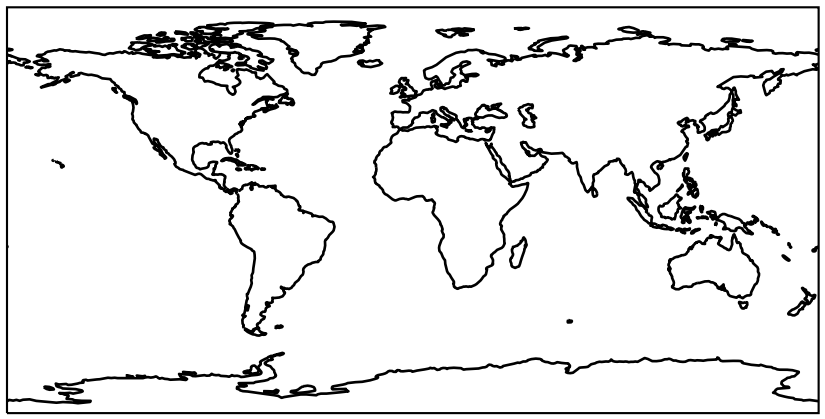
# EmisGLYC_Anthro (Apr2019)

GCHP_13.2.0 (Ref)
c48



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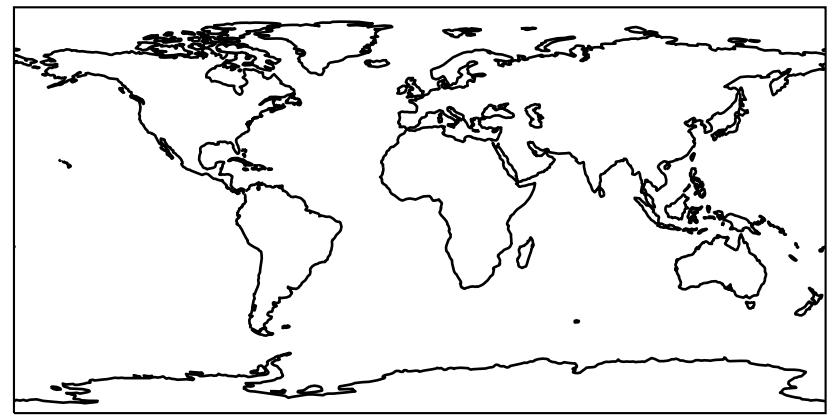
kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



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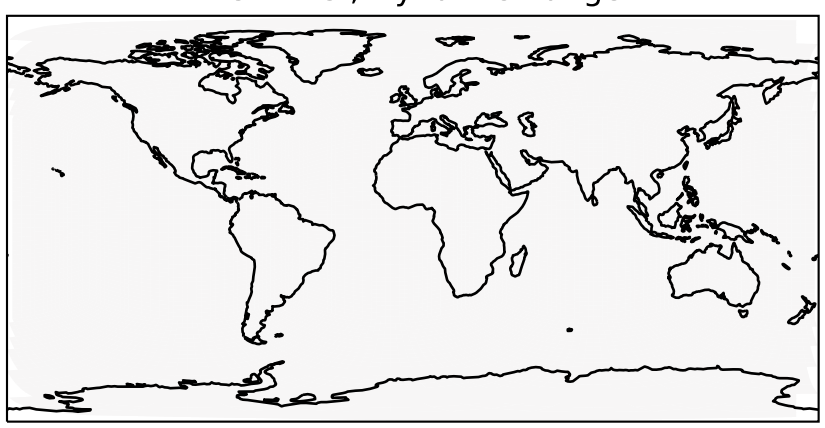
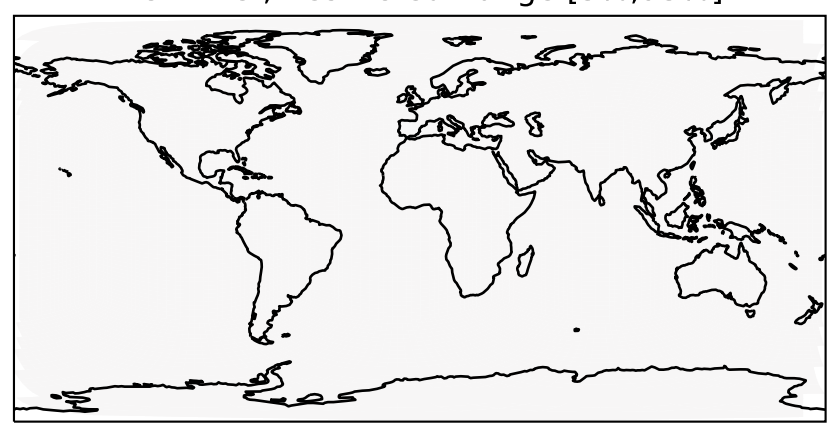
kg/m2/s

Difference
Dev - Ref, Dynamic Range



Zero throughout domain
kg/m2/s

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



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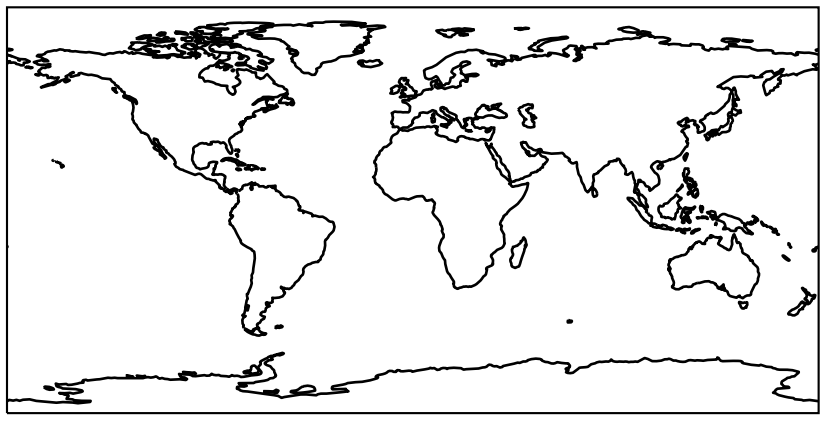
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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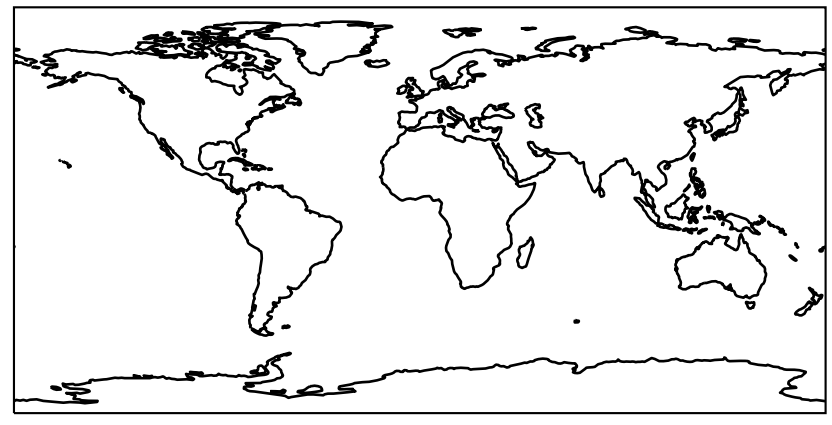
Ratio
Dev/Ref, Fixed Range



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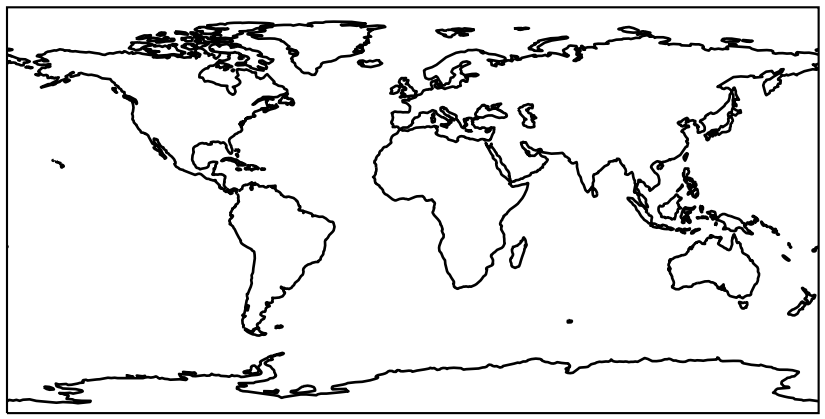
unitless

# EmisGLYC_Total (Apr2019)

GCHP_13.2.0 (Ref)
c48



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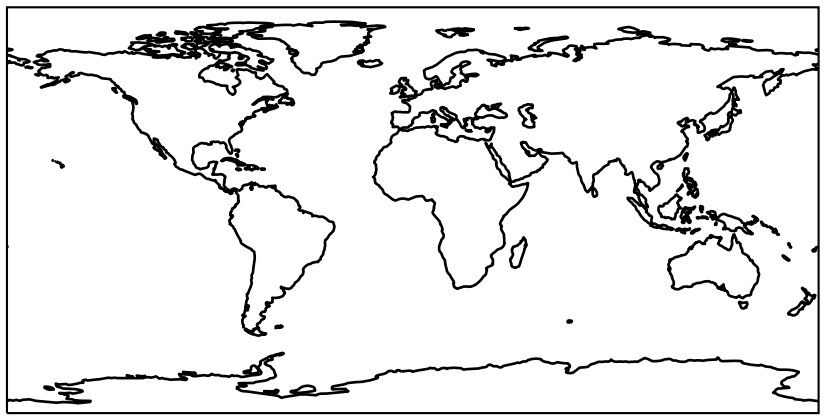
kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



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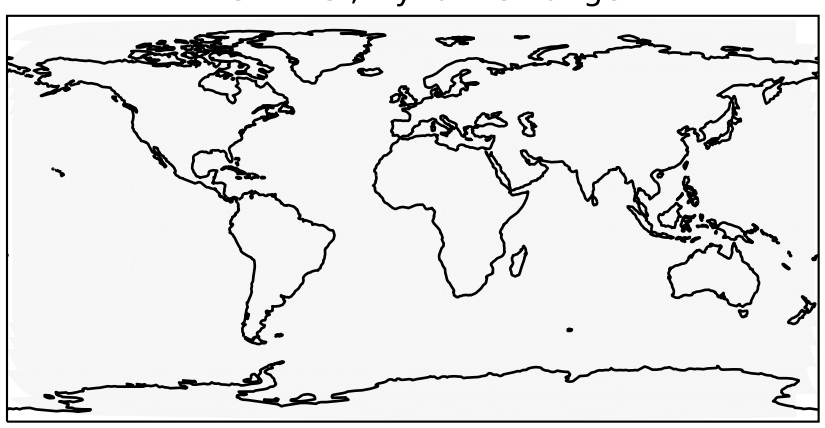
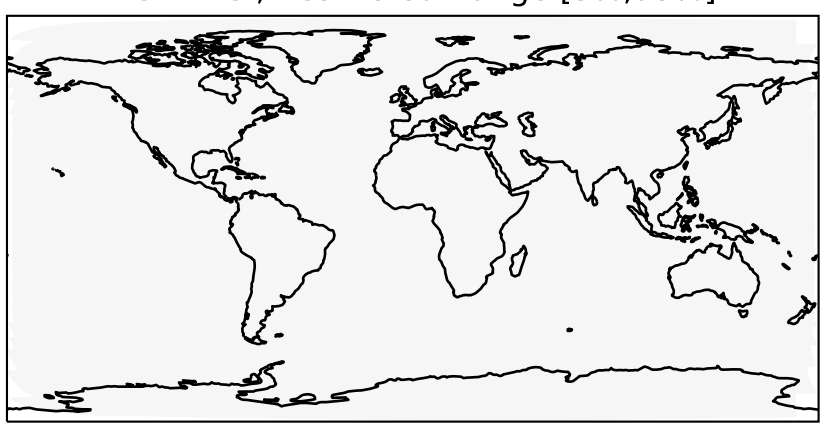
kg/m2/s

Difference
Dev - Ref, Dynamic Range



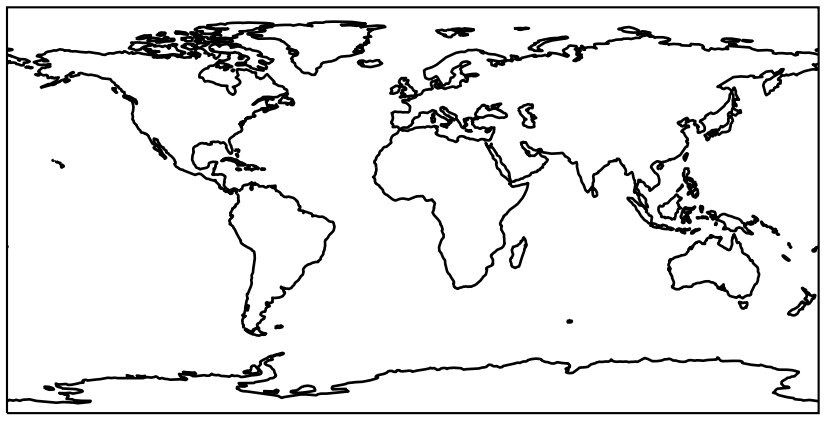
Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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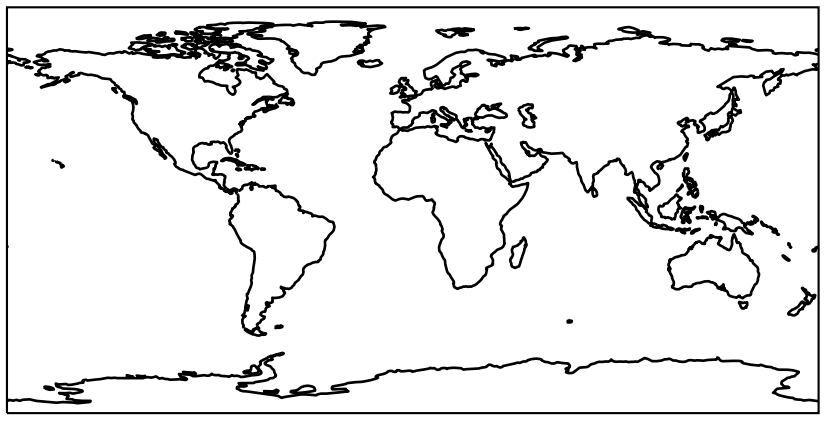
unitless

Ratio
Dev/Ref, Fixed Range



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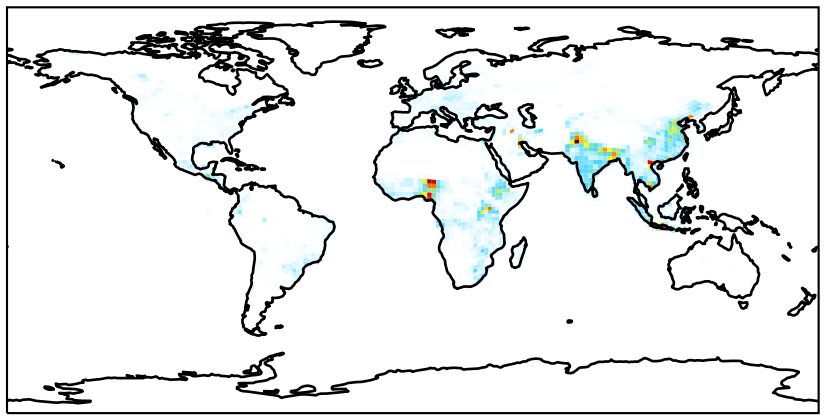
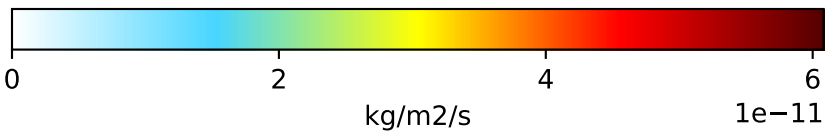
unitless

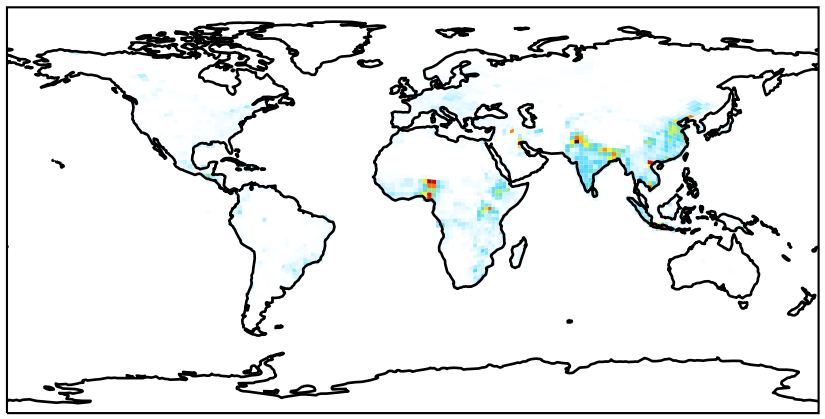
# EmisHCOOH_Anthro (Apr2019)

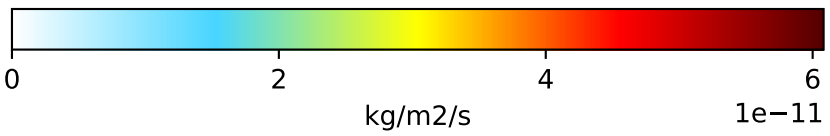
GCHP_13.2.0 (Ref)
c48



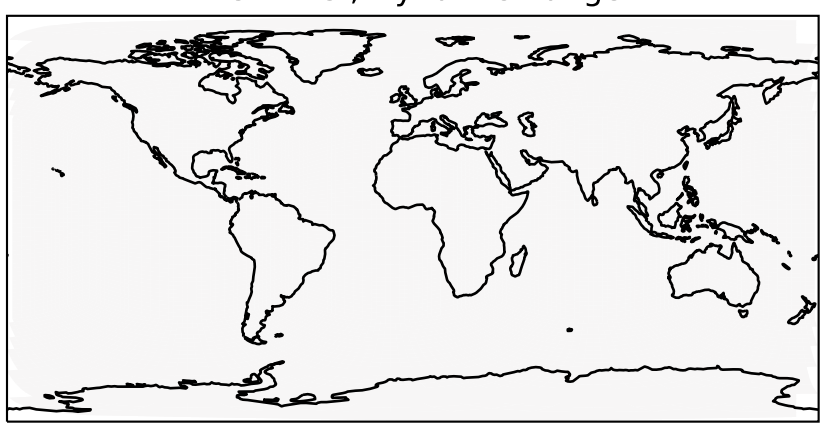


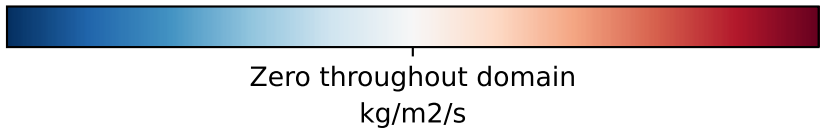

GCHP_13.2.0-LuoWetdep (Dev)
c48



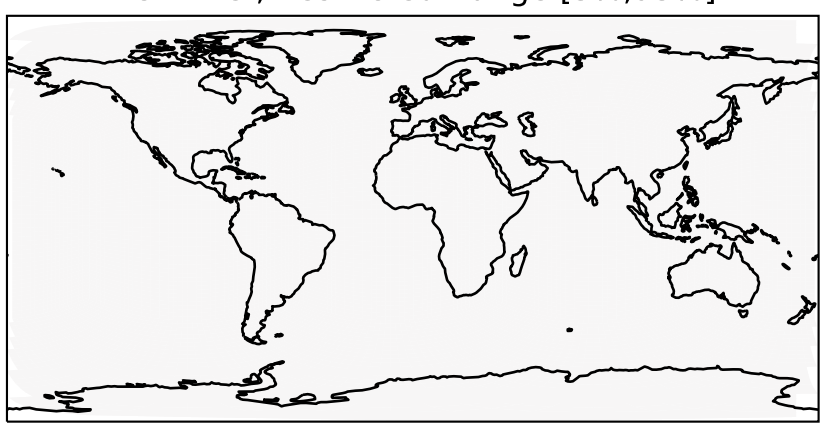


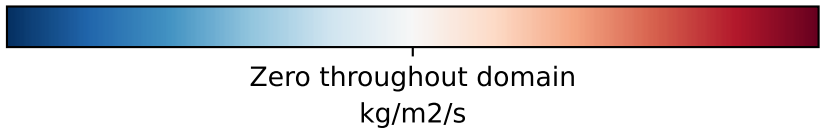

Difference
Dev - Ref, Dynamic Range



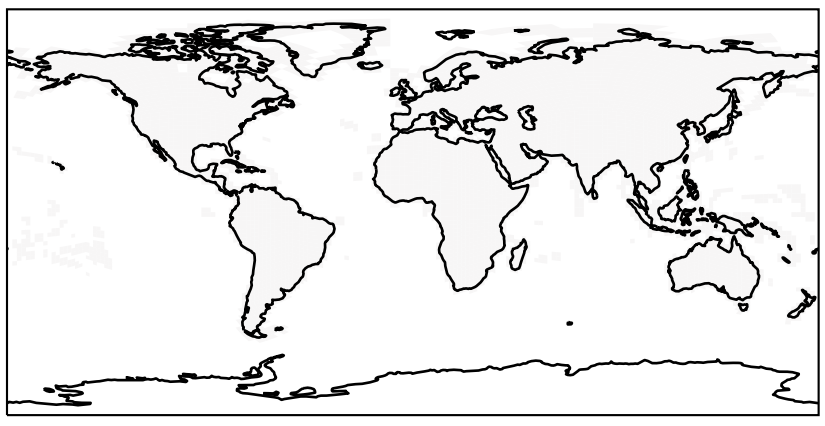


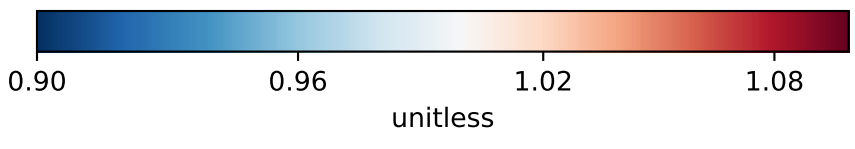

Difference
Dev - Ref, Restricted Range [5%,95%]



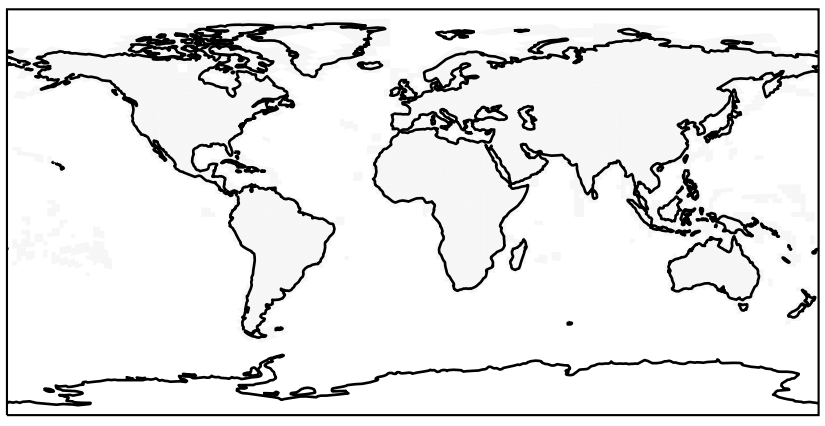


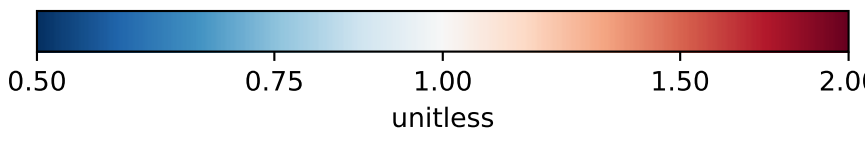

Ratio
Dev/Ref, Dynamic Range





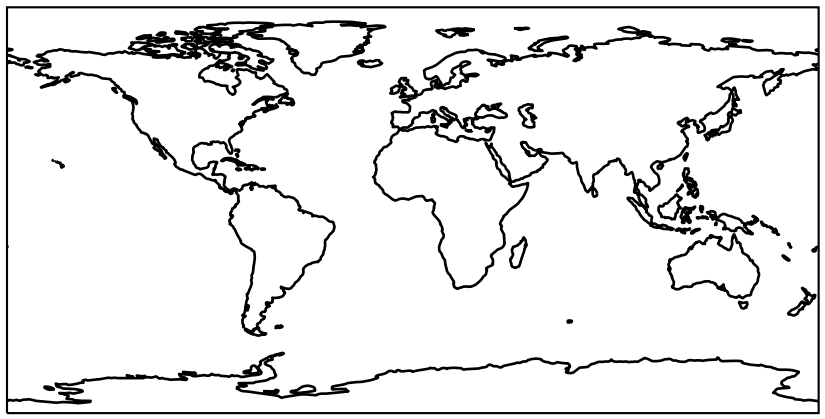

Ratio
Dev/Ref, Fixed Range





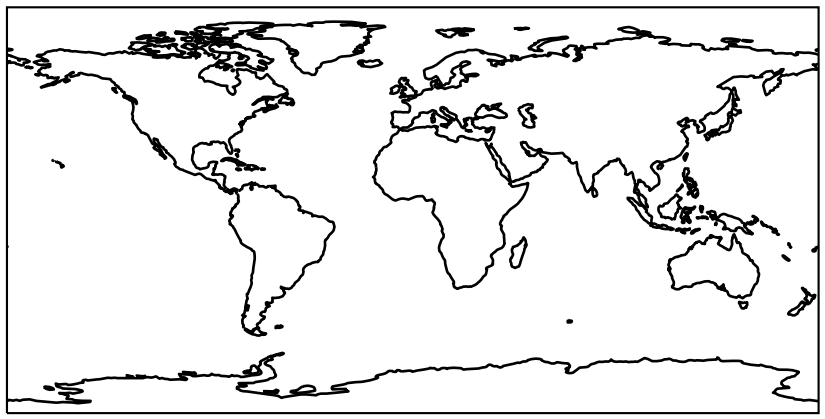
# EmisHCOOH_Ship (Apr2019)

GCHP_13.2.0 (Ref)
c48



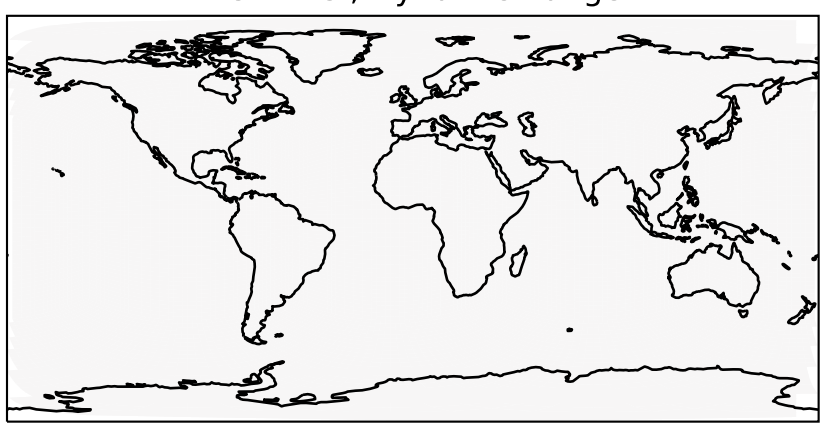
Zero throughout domain
kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



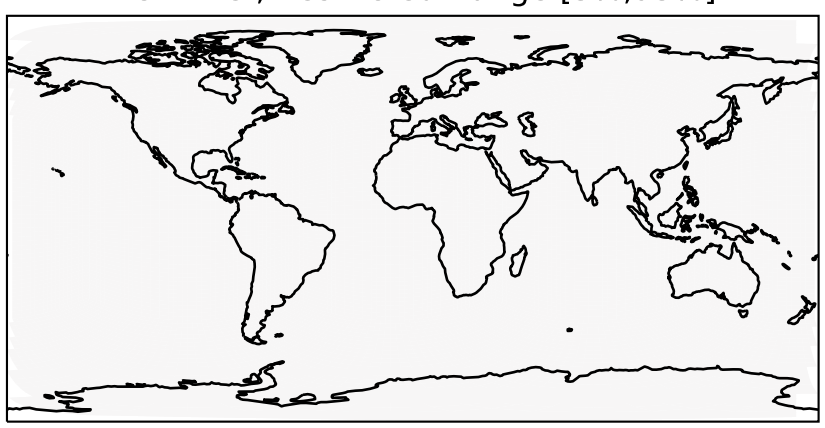
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



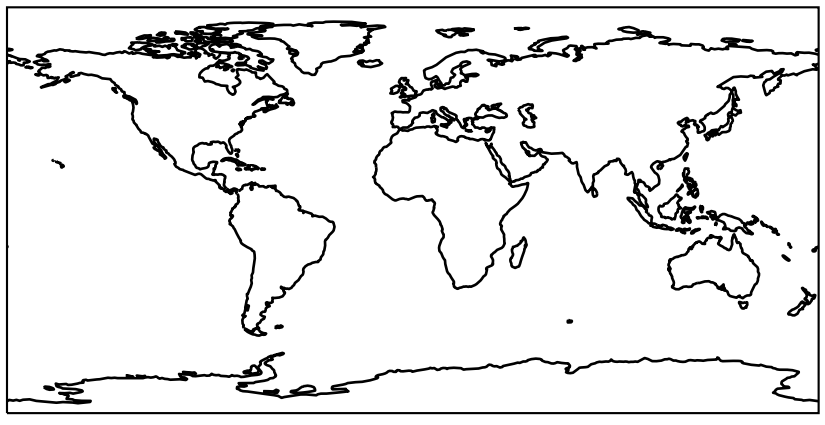
Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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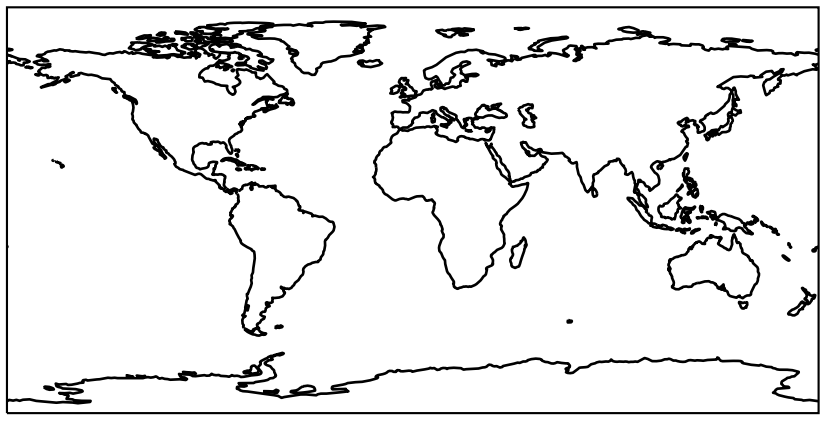
unitless

Ratio
Dev/Ref, Fixed Range



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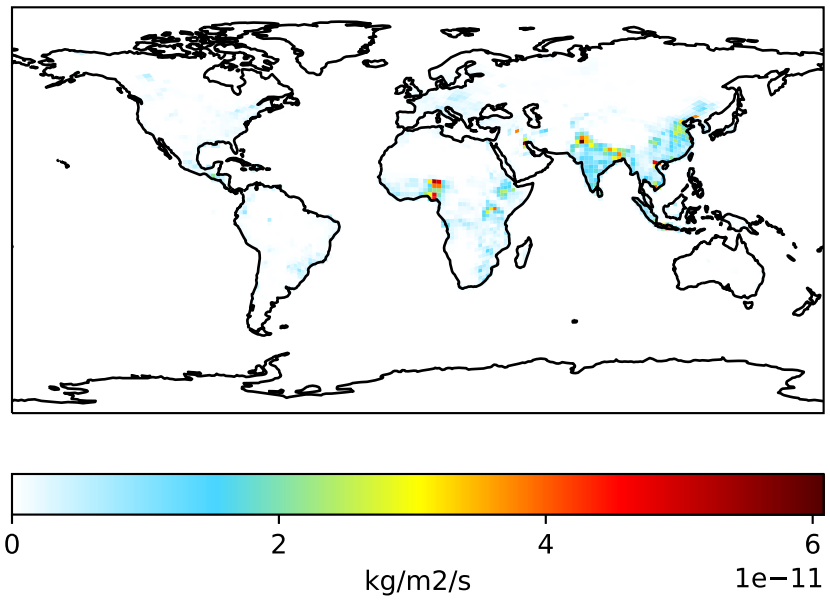
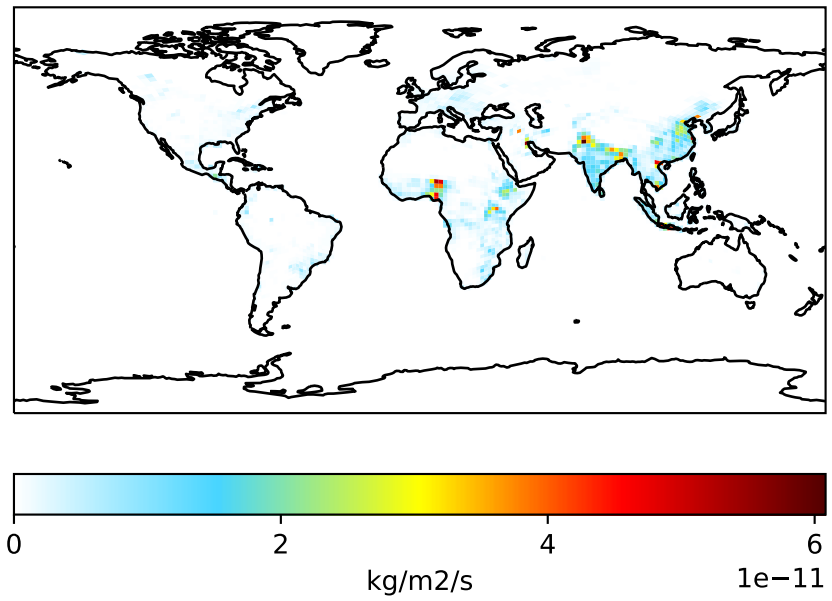
unitless

# EmisHCOOH_Total (Apr2019)

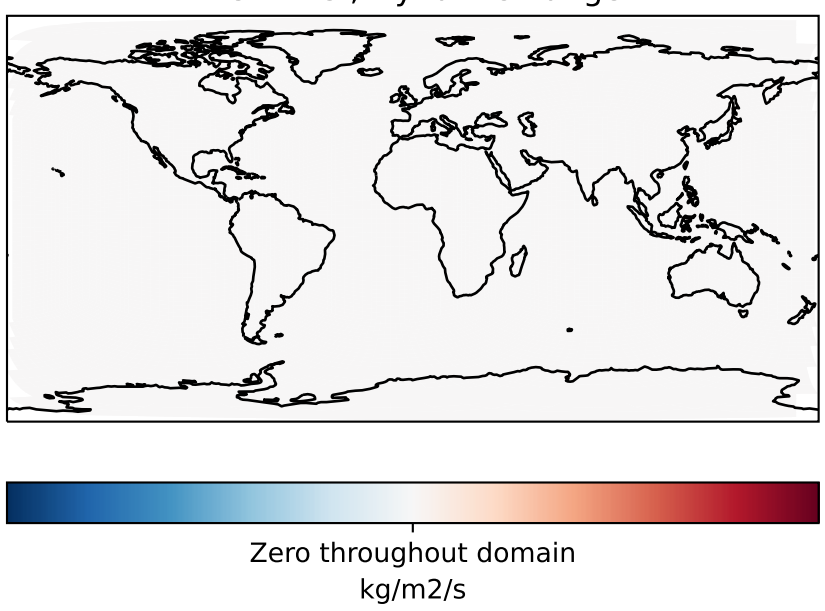
GCHP_13.2.0 (Ref)
c48



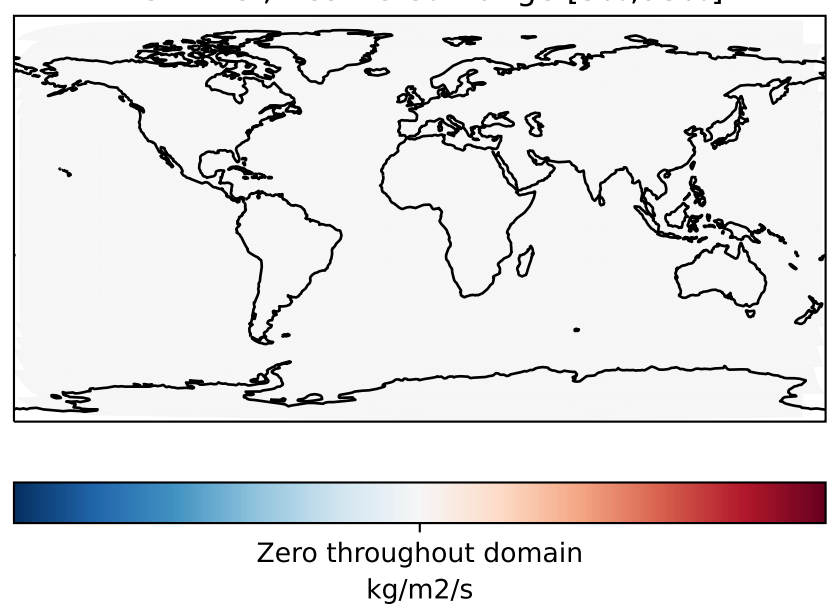

GCHP_13.2.0-LuoWetdep (Dev)
c48



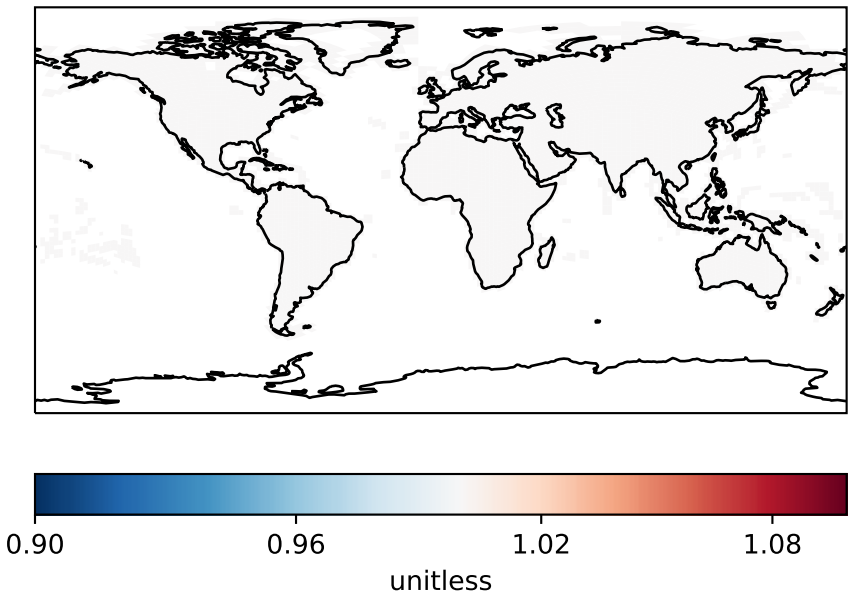

Difference
Dev - Ref, Dynamic Range



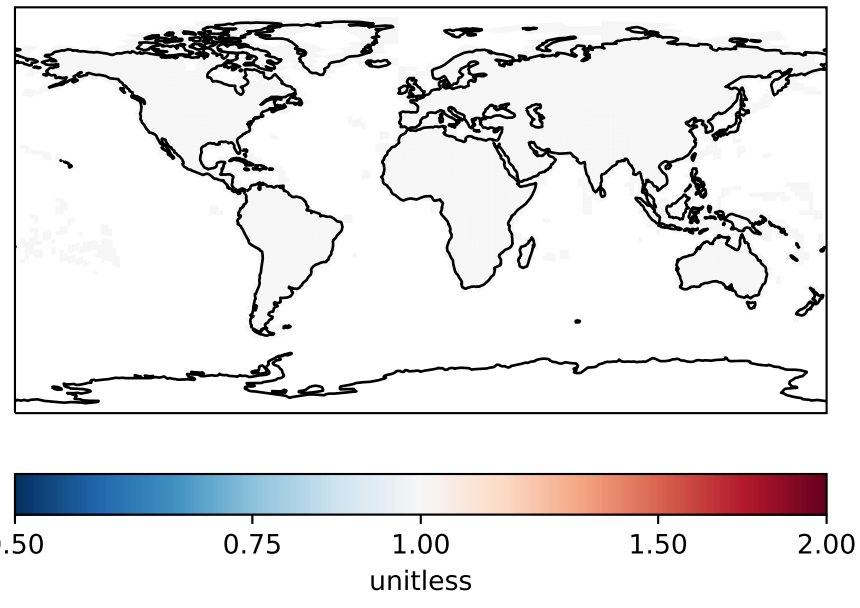

Difference
Dev - Ref, Restricted Range [5%,95%]




Ratio
Dev/Ref, Dynamic Range

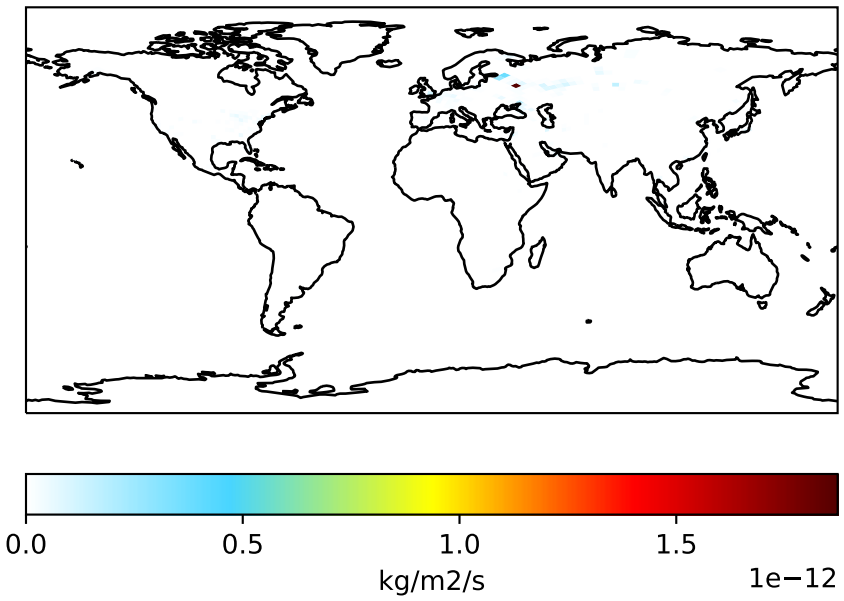



Ratio
Dev/Ref, Fixed Range

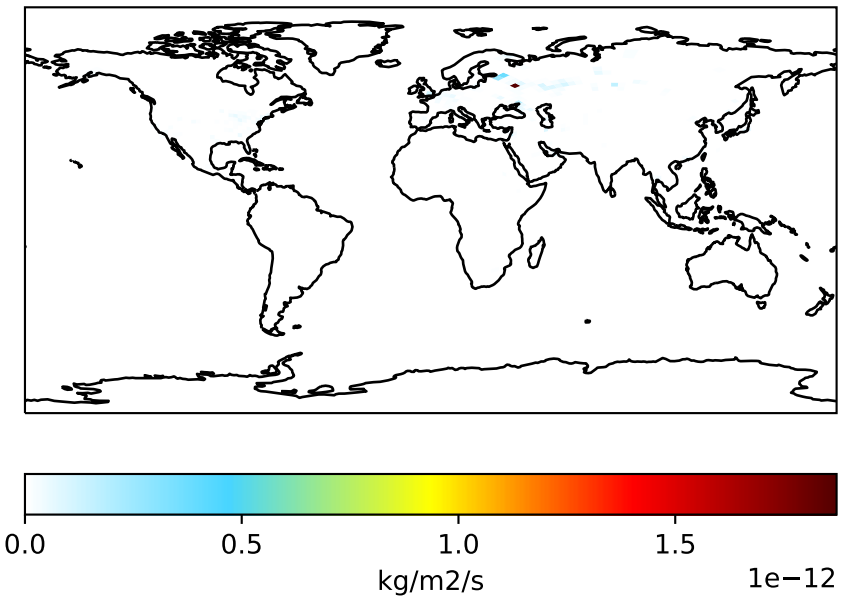


# EmisRCHO_Aircraft (Apr2019)

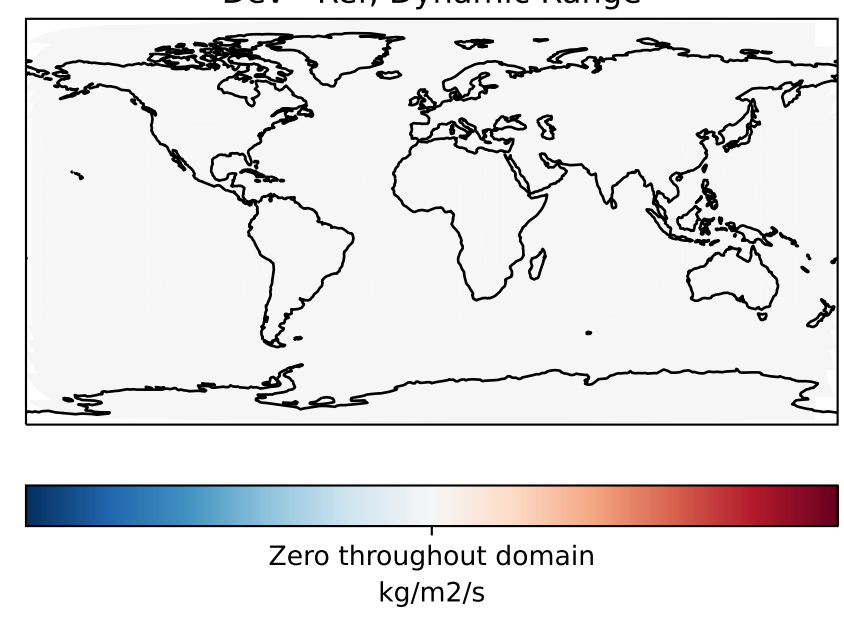
GCHP_13.2.0 (Ref)
c48



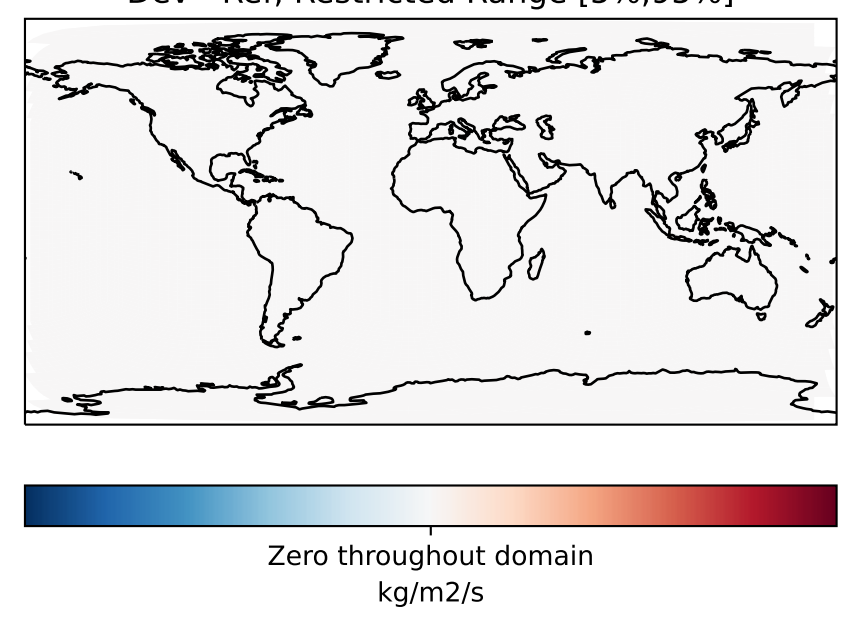

GCHP_13.2.0-LuoWetdep (Dev)
c48



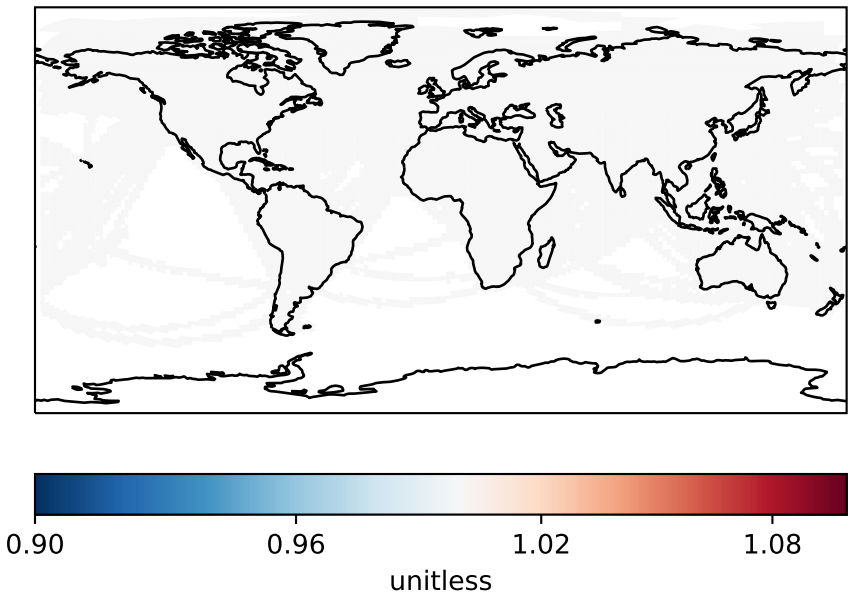

Difference
Dev - Ref, Dynamic Range



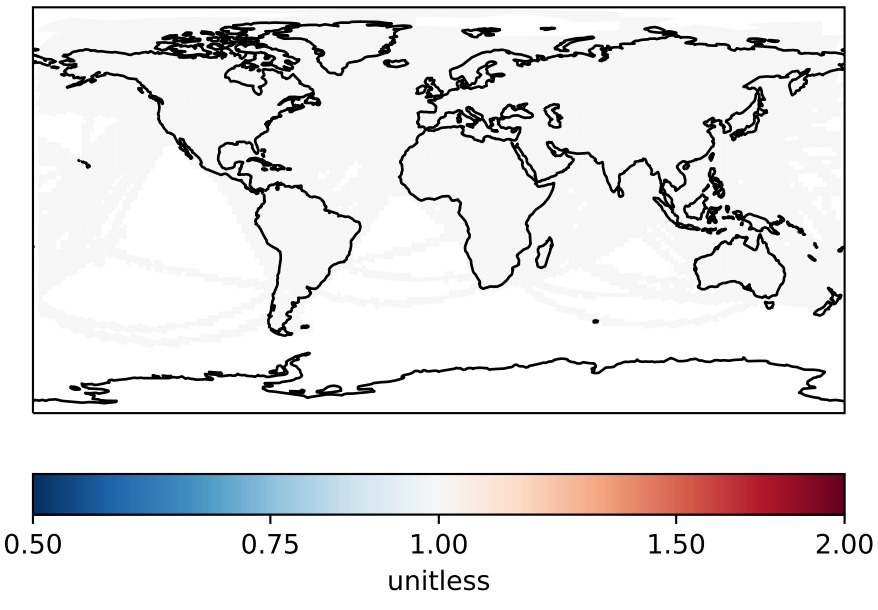

Difference
Dev - Ref, Restricted Range [5%,95%]




Ratio
Dev/Ref, Dynamic Range

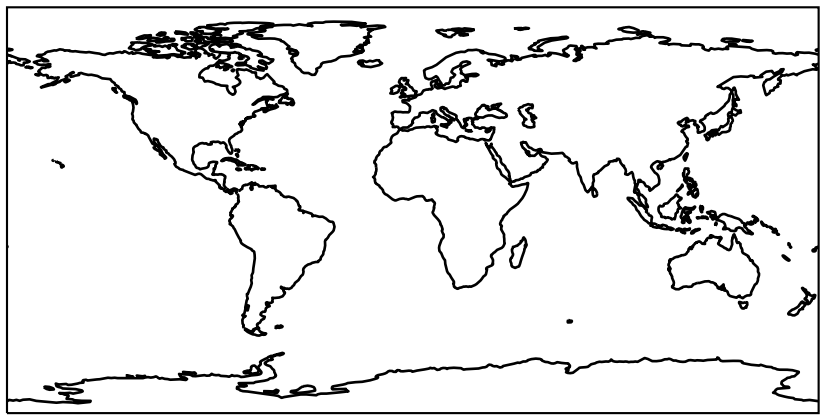



Ratio
Dev/Ref, Fixed Range



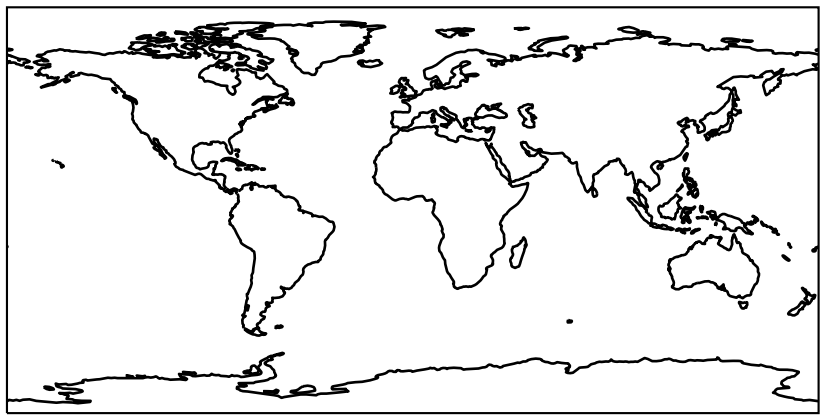
# EmisRCHO_Anthro (Apr2019)

GCHP_13.2.0 (Ref)
c48



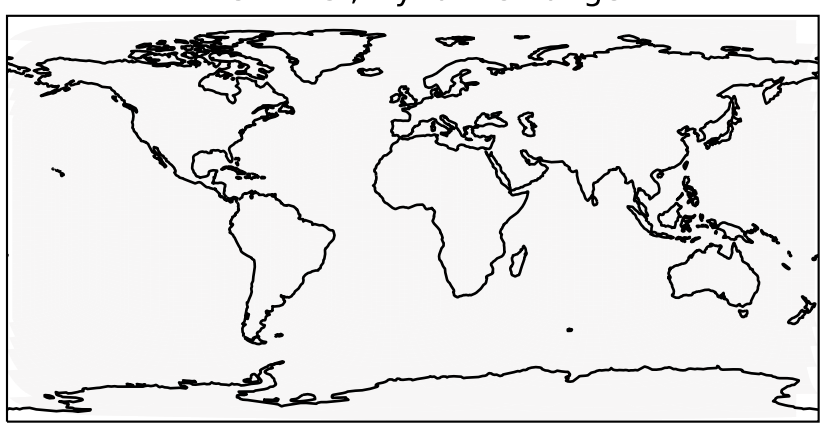
Zero throughout domain
kg/m2/s

GCHP_13.2.0-LuoWetdep (Dev)
c48



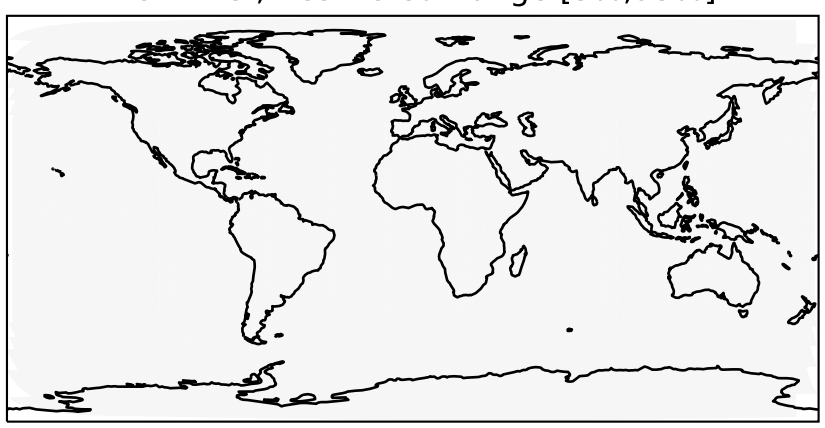
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



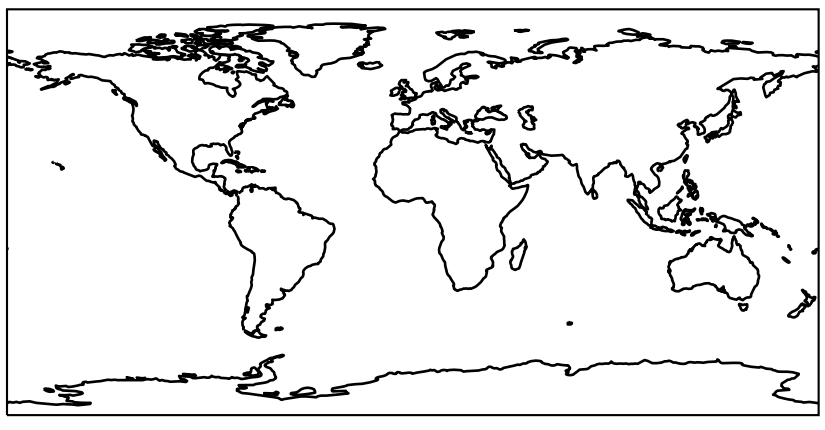
Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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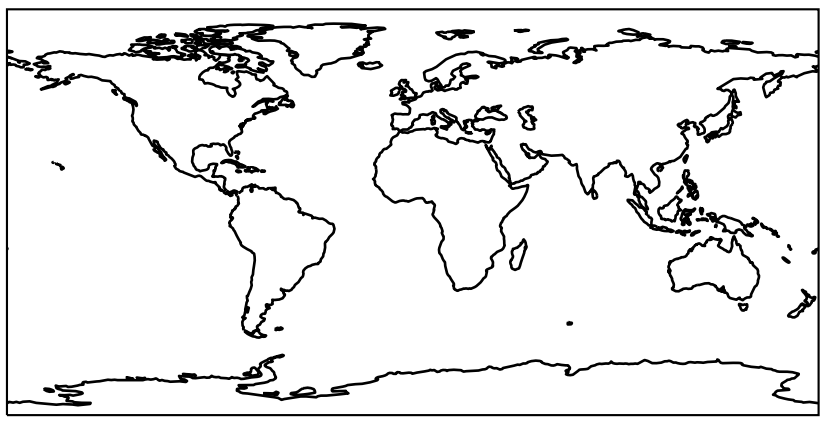
unitless

Ratio
Dev/Ref, Fixed Range



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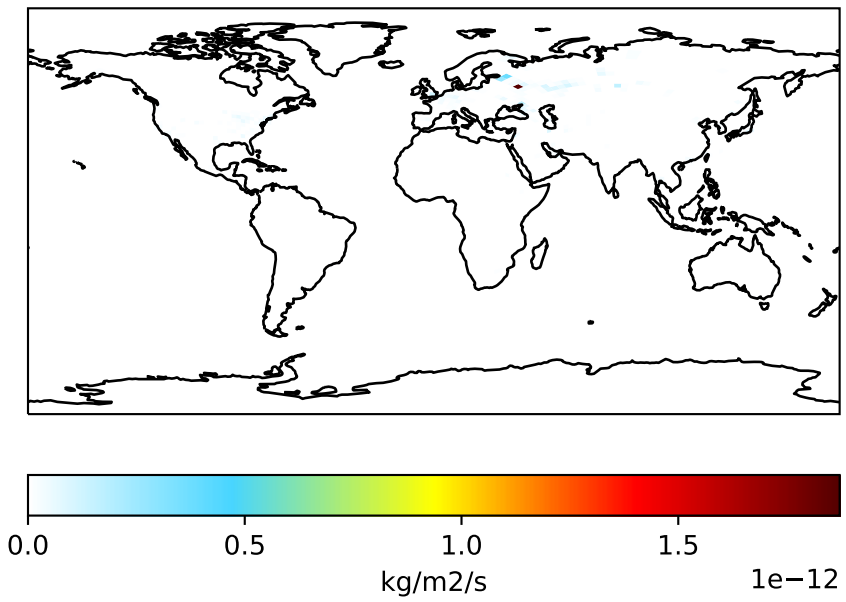
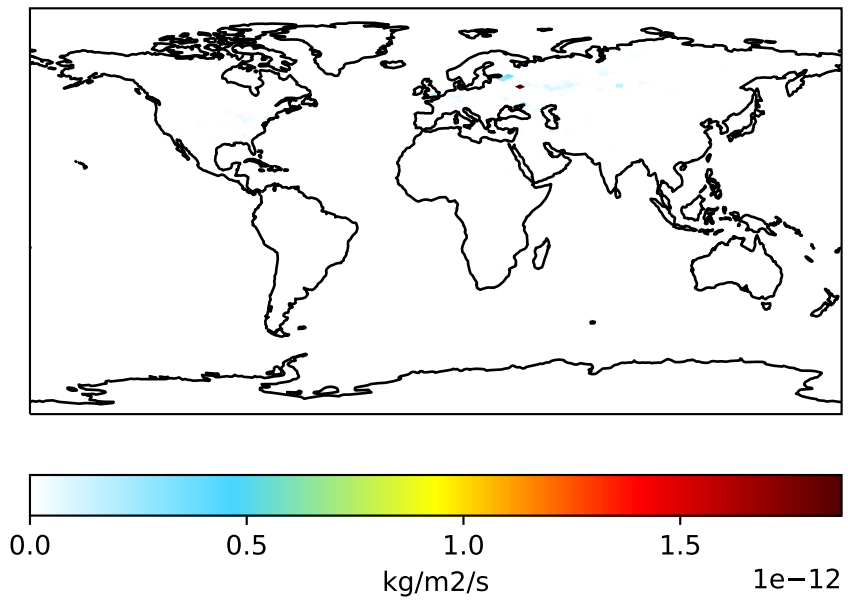
# EmisRCHO_Total (Apr2019)

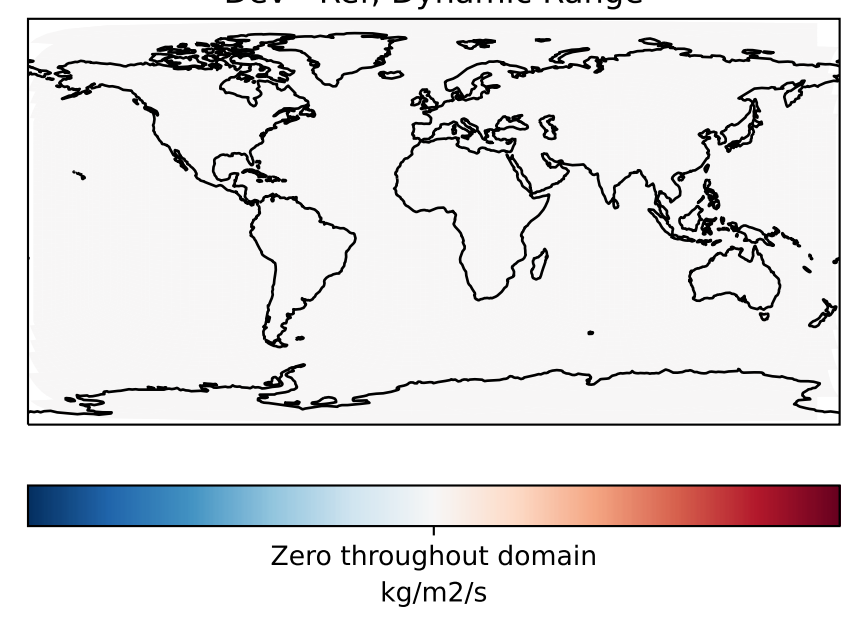
GCHP_13.2.0 (Ref)
c48



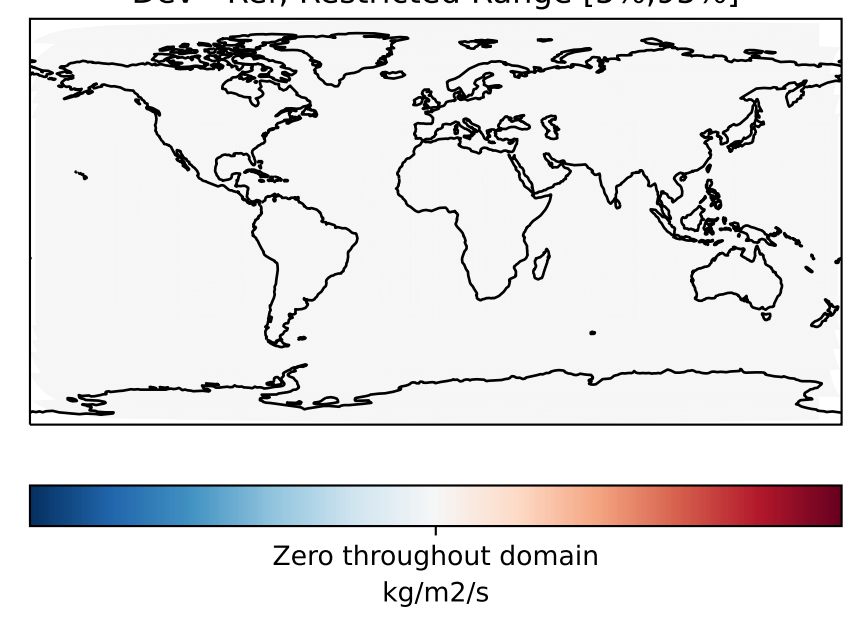

GCHP_13.2.0-LuoWetdep (Dev)
c48



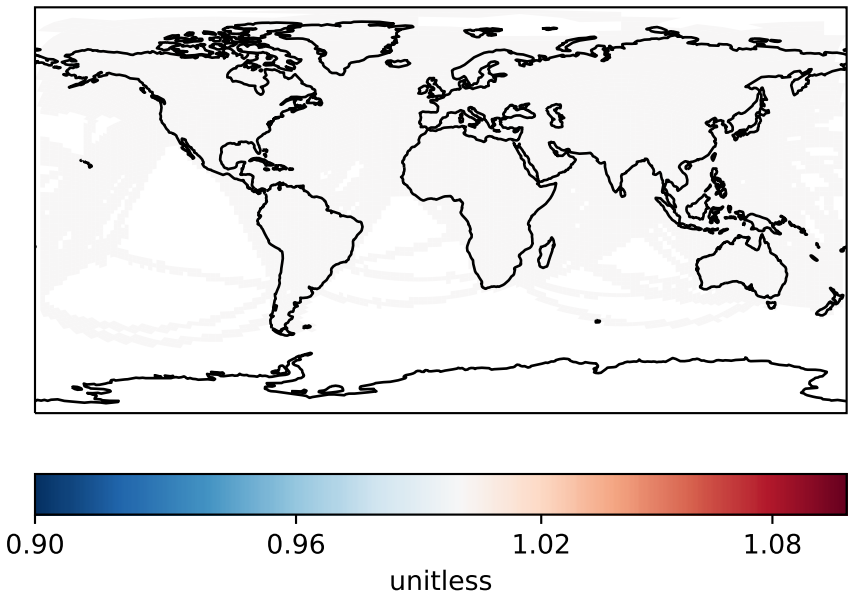

Difference
Dev - Ref, Dynamic Range

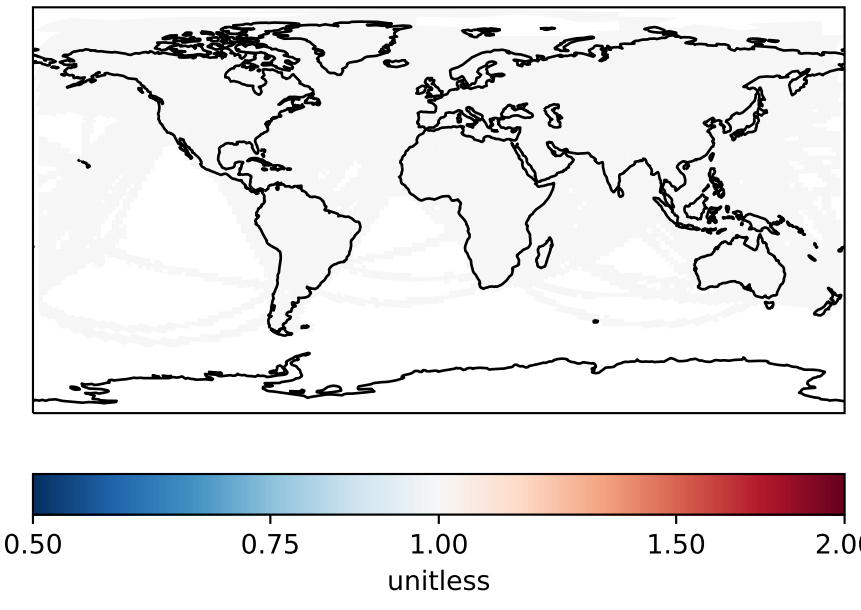



Difference
Dev - Ref, Restricted Range [5%,95%]




Ratio
Dev/Ref, Dynamic Range




Ratio
Dev/Ref, Fixed Range