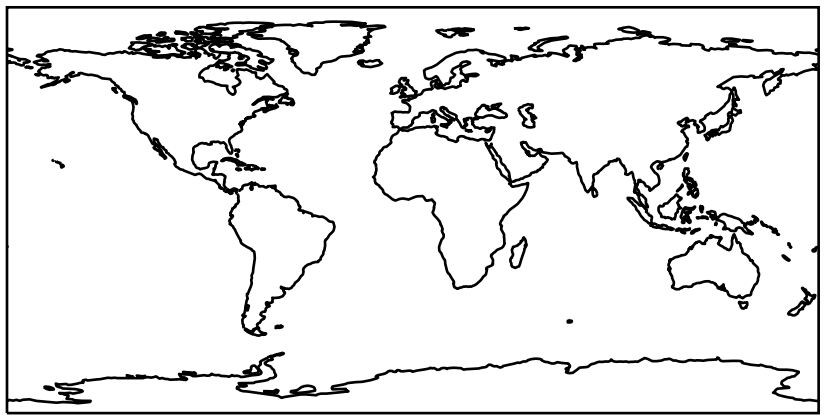
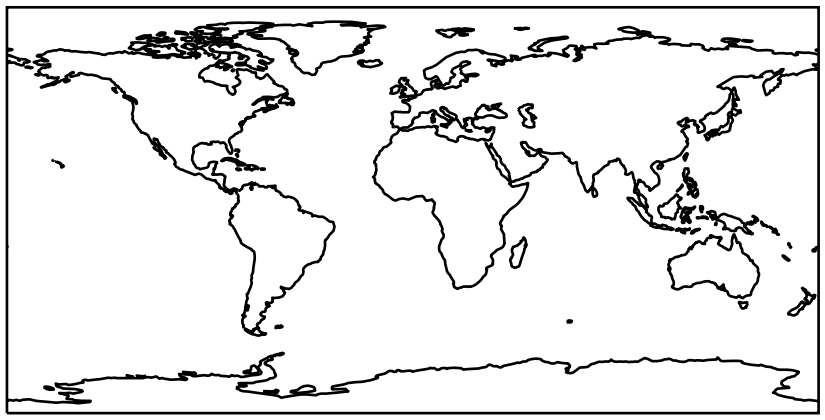
EmisALD2_Ship

GCHP_13.2.0 (Ref)
c48



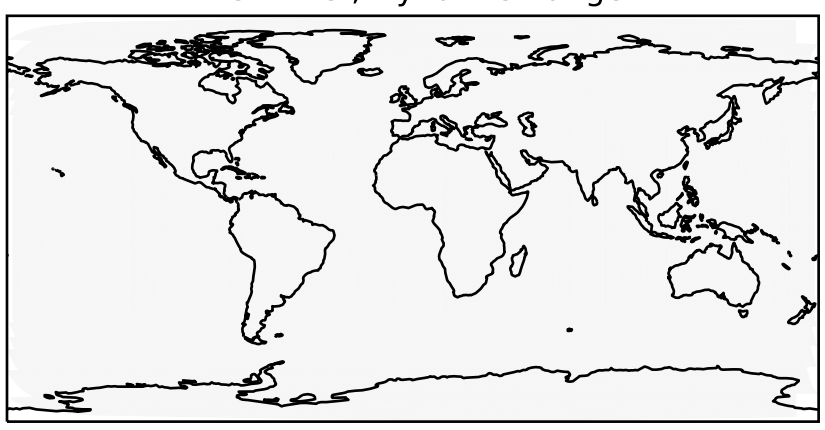
Zero throughout domain
kg/m2/s

GCHP_13.3.0-rc.1 (Dev)
c48



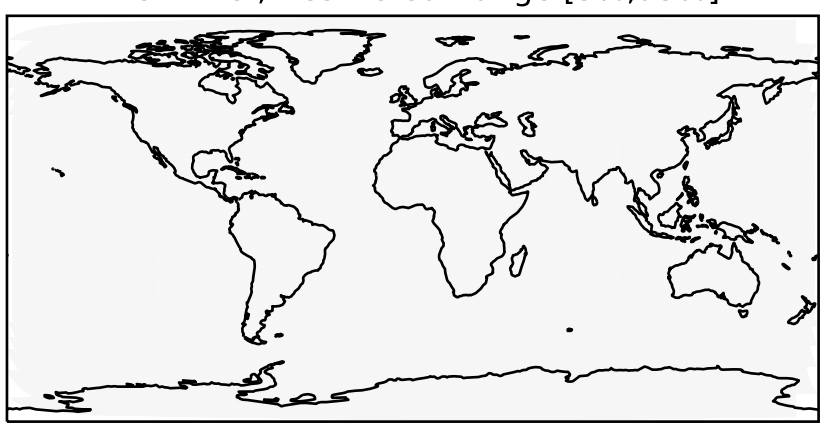
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



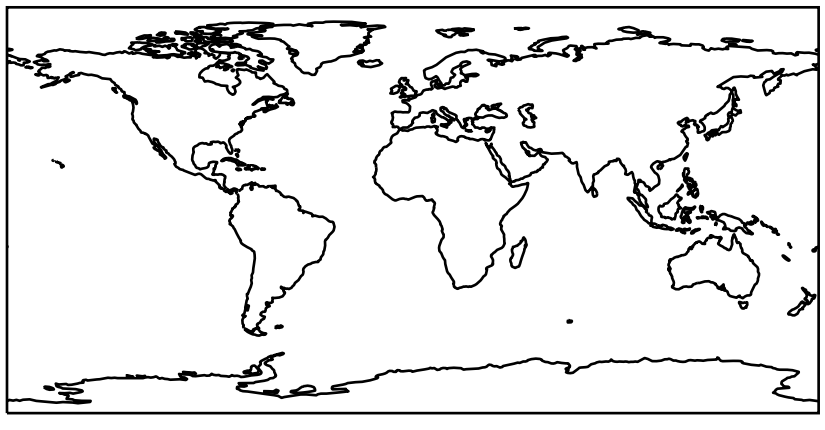
Zero throughout domain
kg/m2/s

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



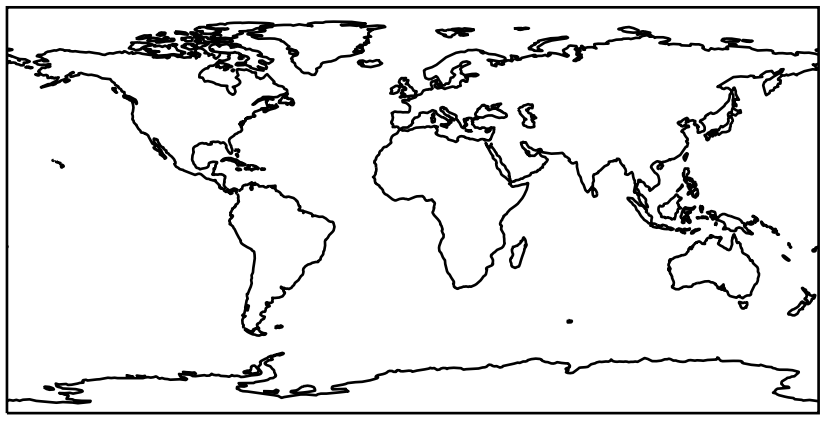
Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



Undefined throughout domain
unitless

Ratio
Dev/Ref, Fixed Range



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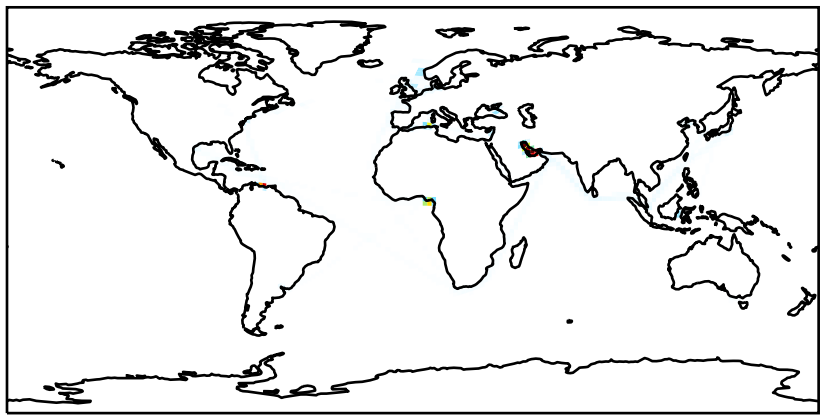
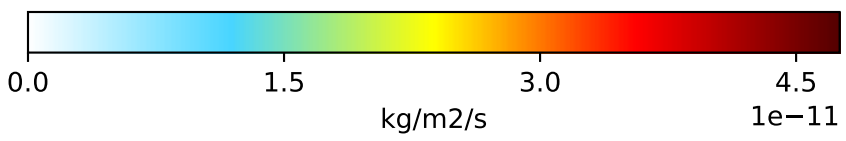
unitless

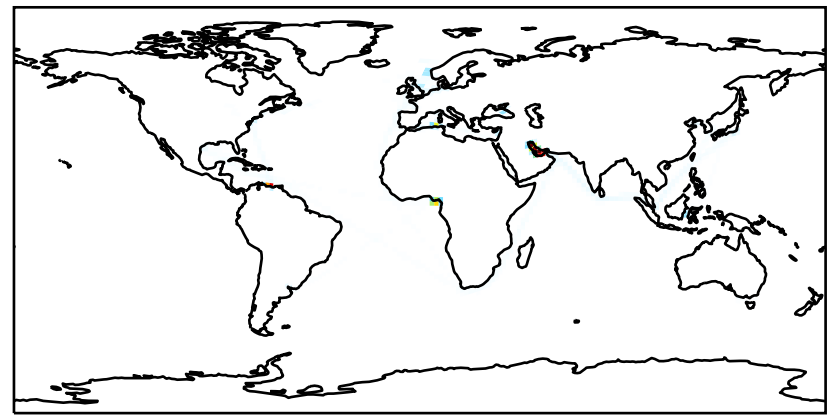
EmisALK4_Ship

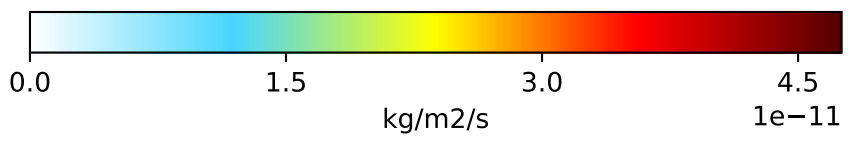
GCHP_13.2.0 (Ref)
c48



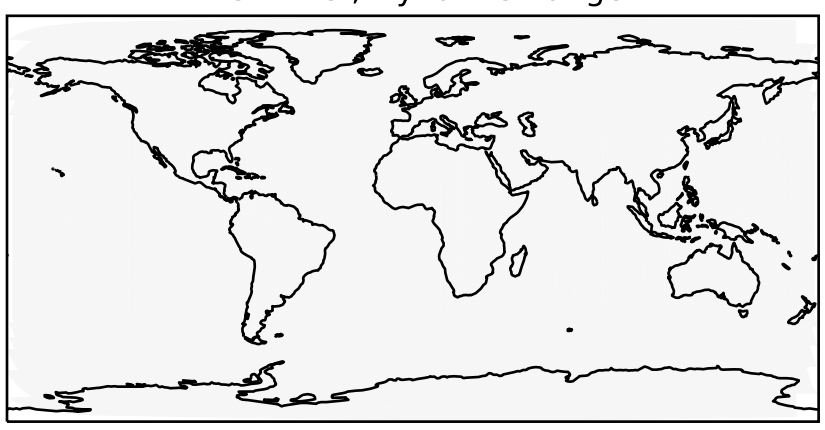


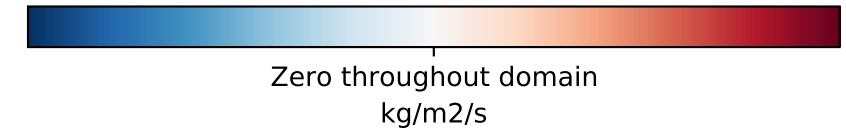
GCHP_13.3.0-rc.1 (Dev)
c48



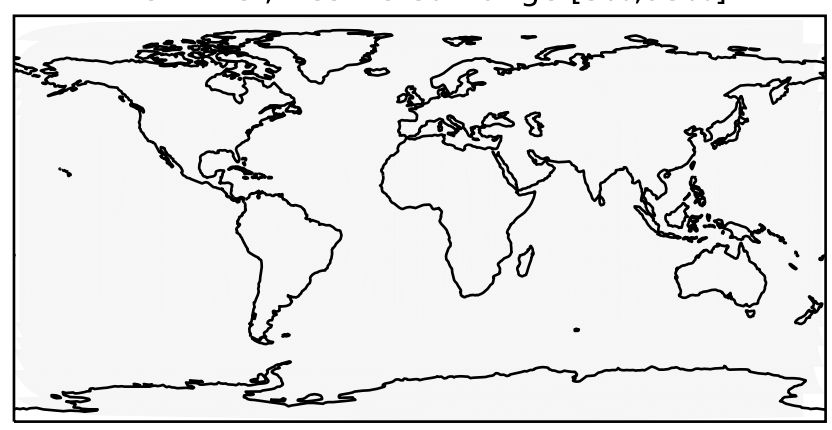


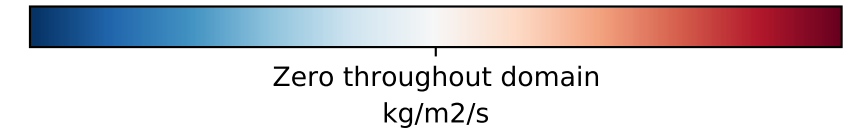
Difference
Dev - Ref, Dynamic Range



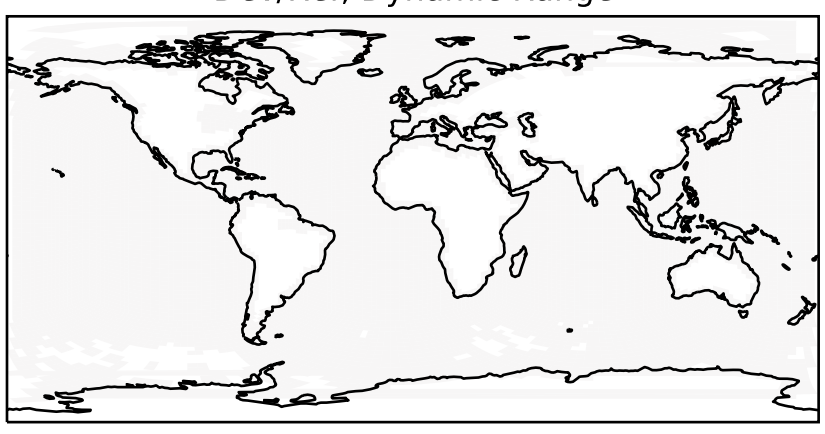


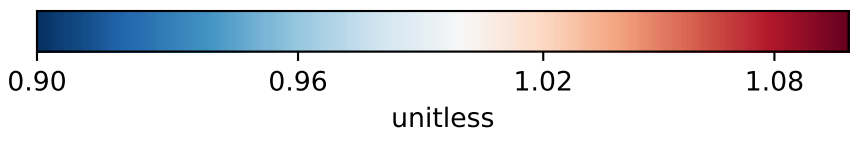
Difference
Dev - Ref, Restricted Range [5%,95%]



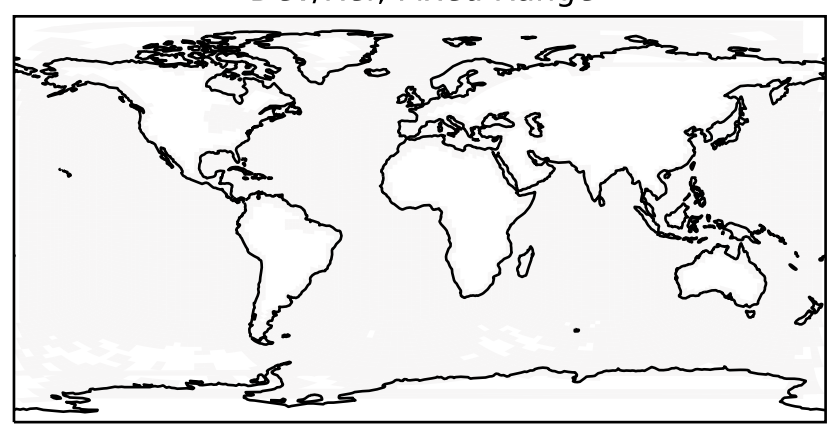


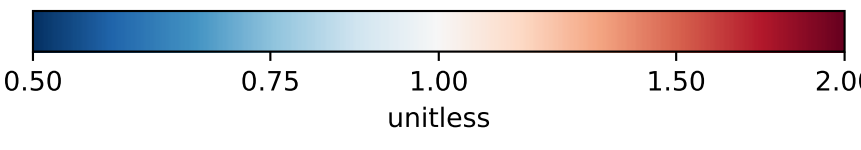
Ratio
Dev/Ref, Dynamic Range





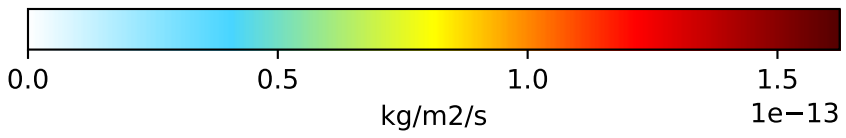
Ratio
Dev/Ref, Fixed Range



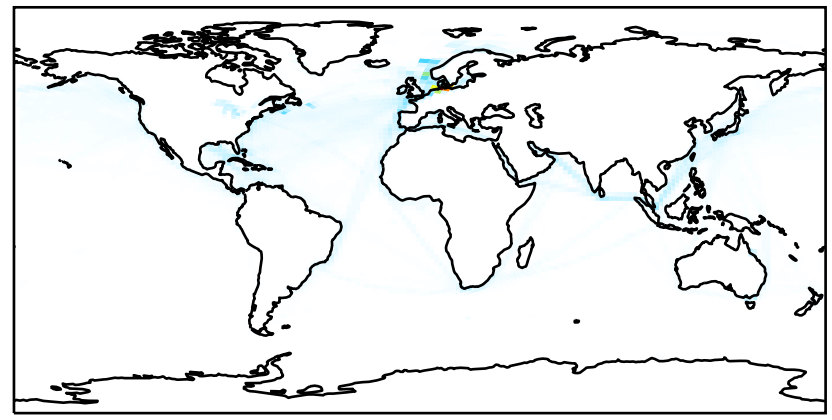


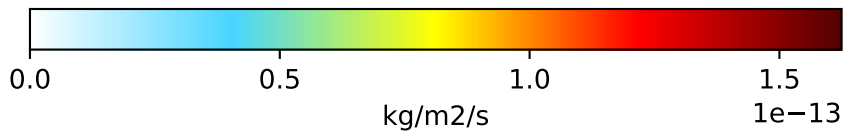
EmisBCPI_Ship

GCHP_13.2.0 (Ref)
c48

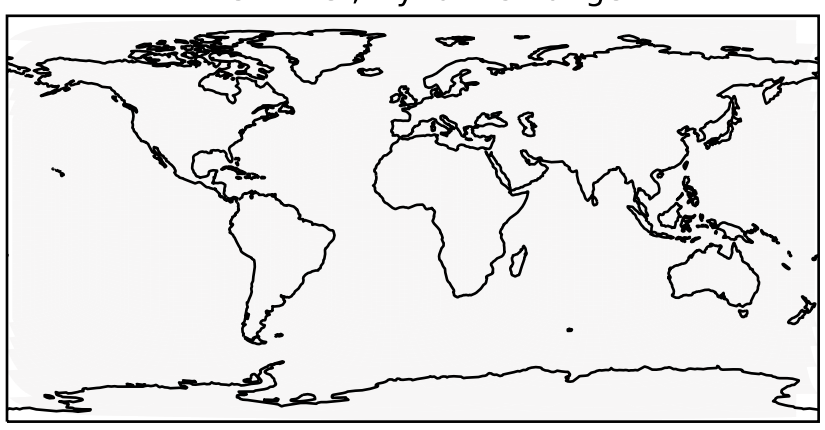


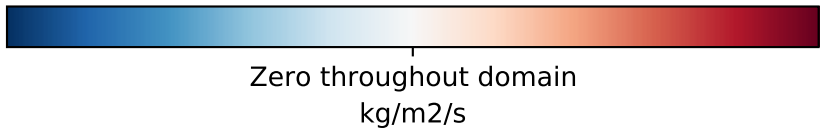
GCHP_13.3.0-rc.1 (Dev)
c48



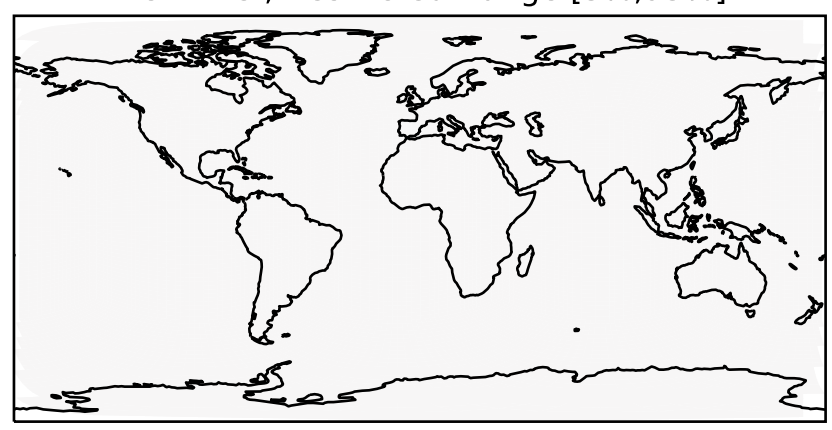


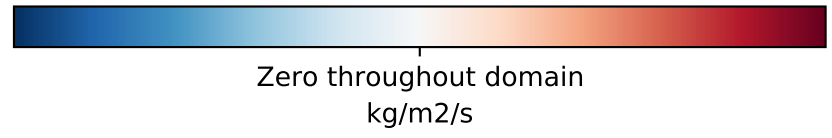
Difference
Dev - Ref, Dynamic Range



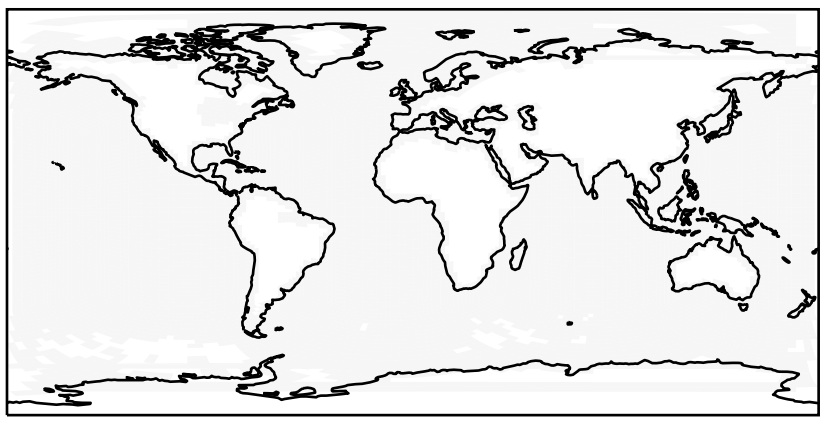


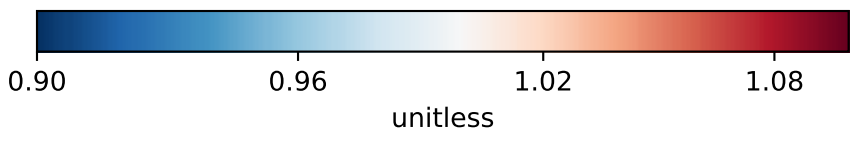
Difference
Dev - Ref, Restricted Range [5%,95%]



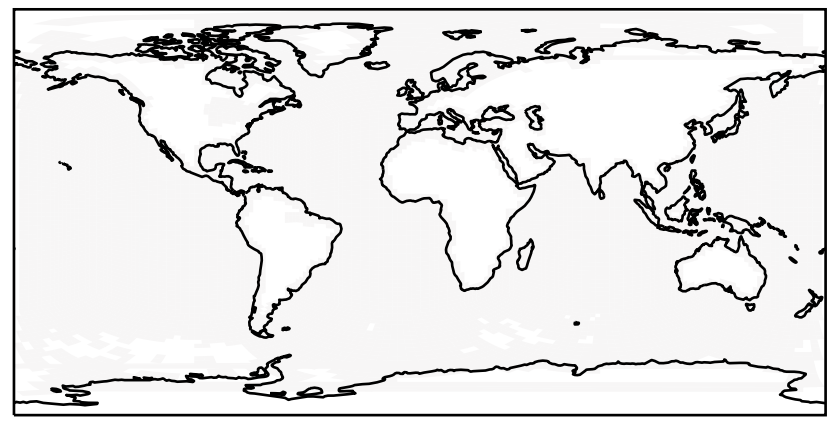


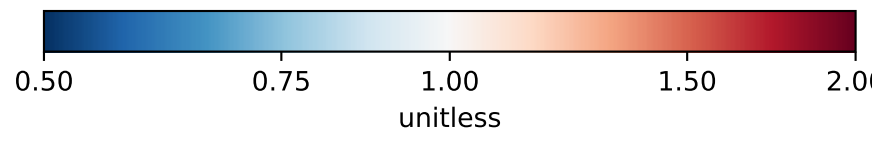
Ratio
Dev/Ref, Dynamic Range





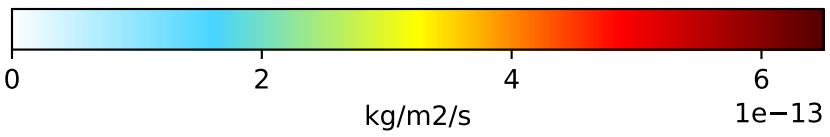
Ratio
Dev/Ref, Fixed Range



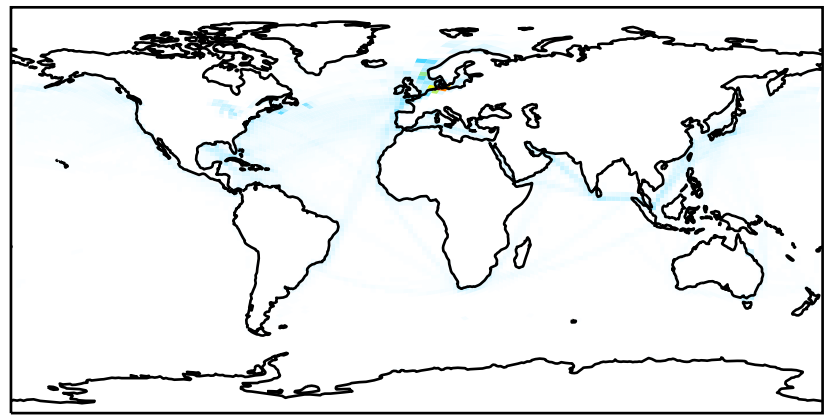


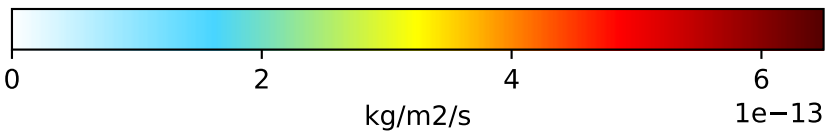
EmisBCPO_Ship

GCHP_13.2.0 (Ref)
c48

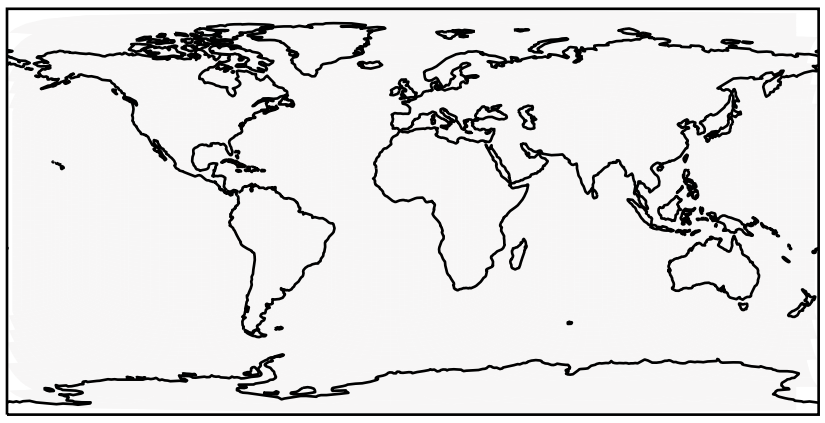


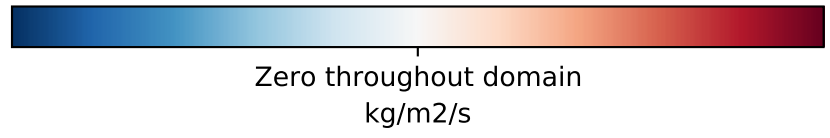
GCHP_13.3.0-rc.1 (Dev)
c48



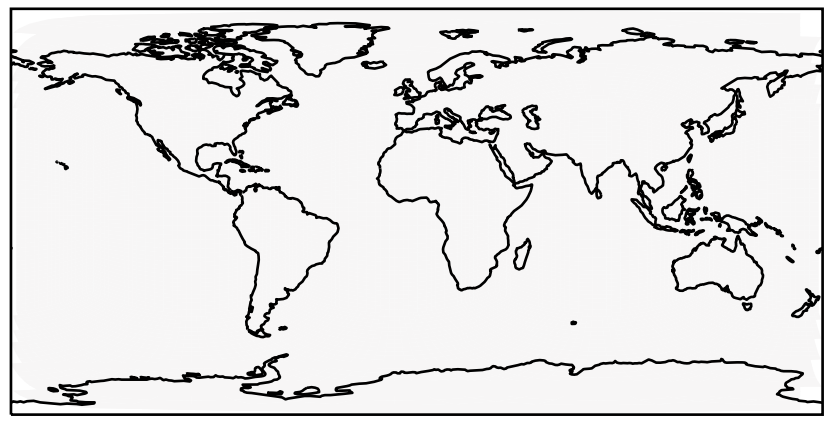


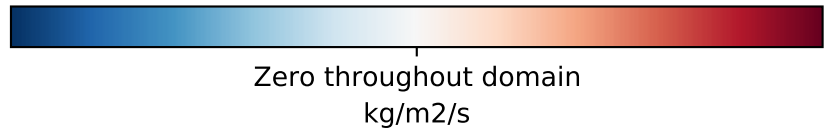
Difference
Dev - Ref, Dynamic Range



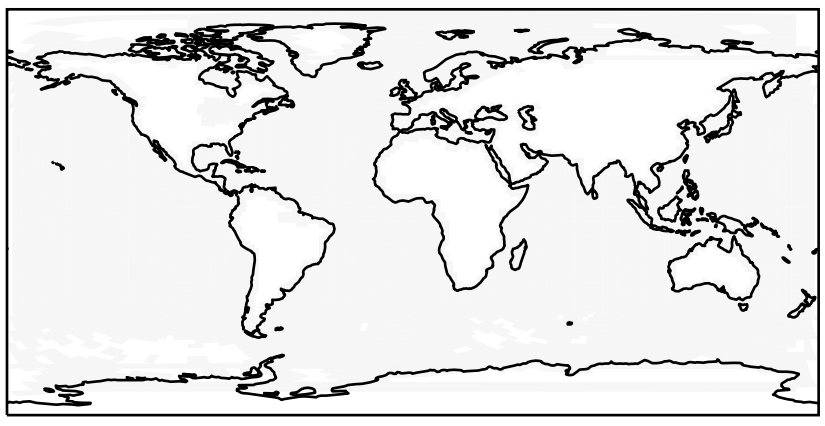


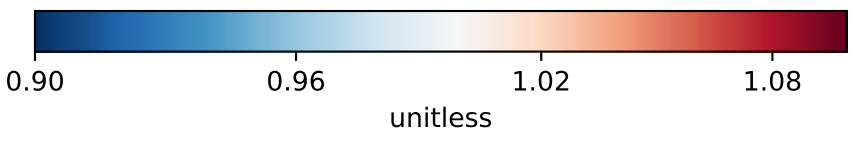
Difference
Dev - Ref, Restricted Range [5%,95%]



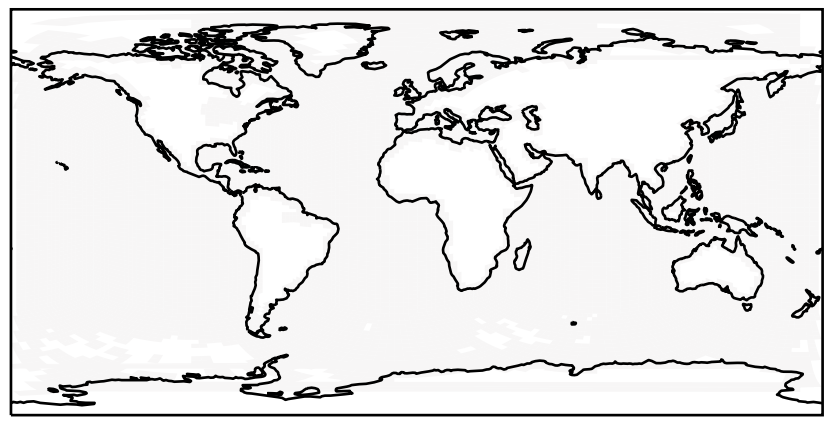


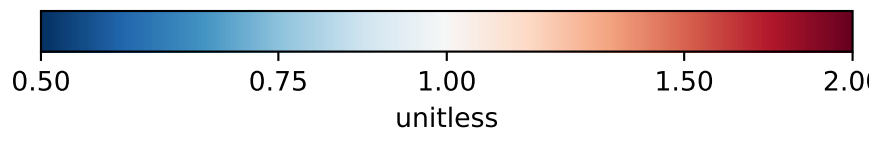
Ratio
Dev/Ref, Dynamic Range





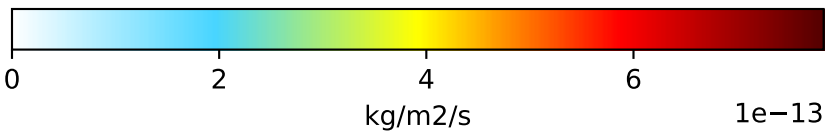
Ratio
Dev/Ref, Fixed Range



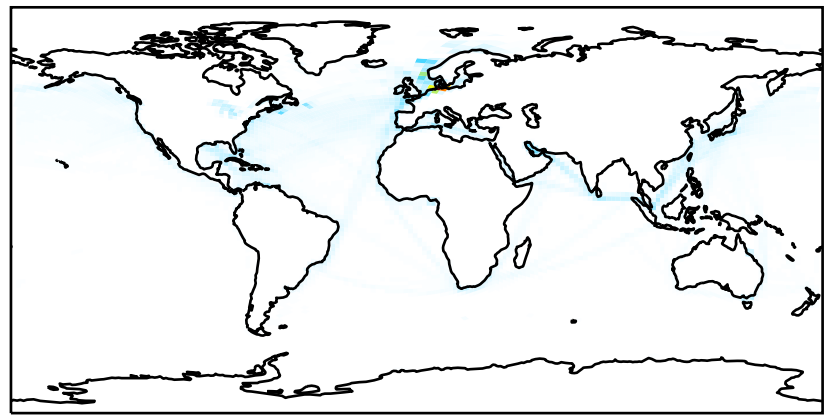


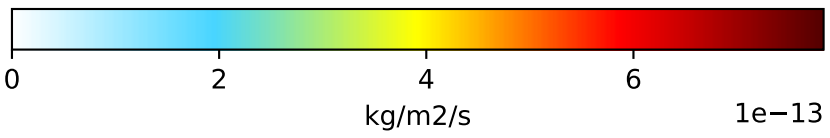
EmisBENZ_Ship

GCHP_13.2.0 (Ref)
c48

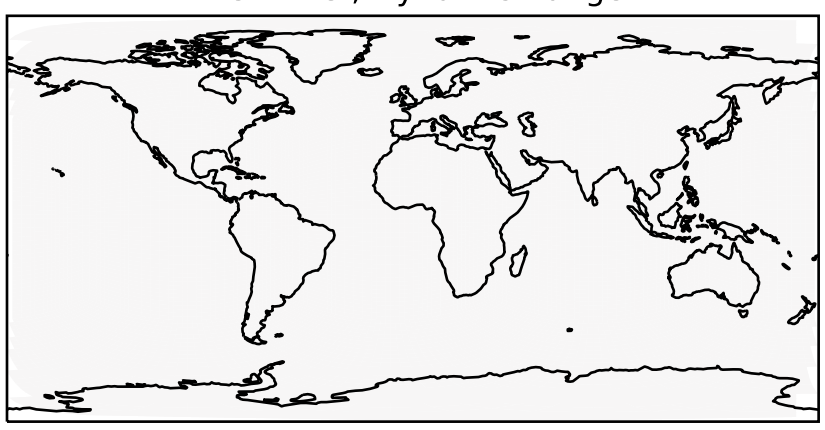


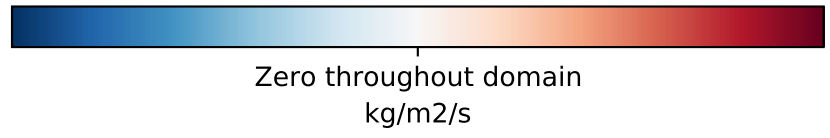
GCHP_13.3.0-rc.1 (Dev)
c48



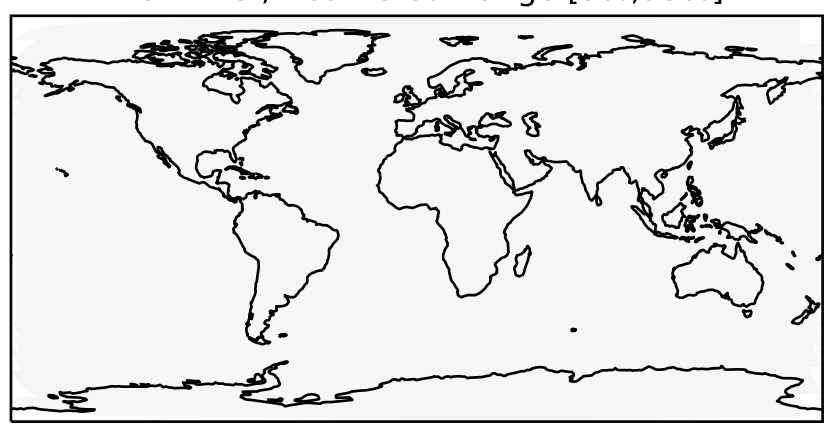


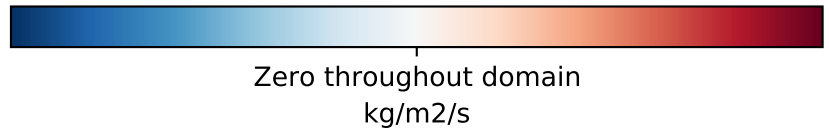
Difference
Dev - Ref, Dynamic Range



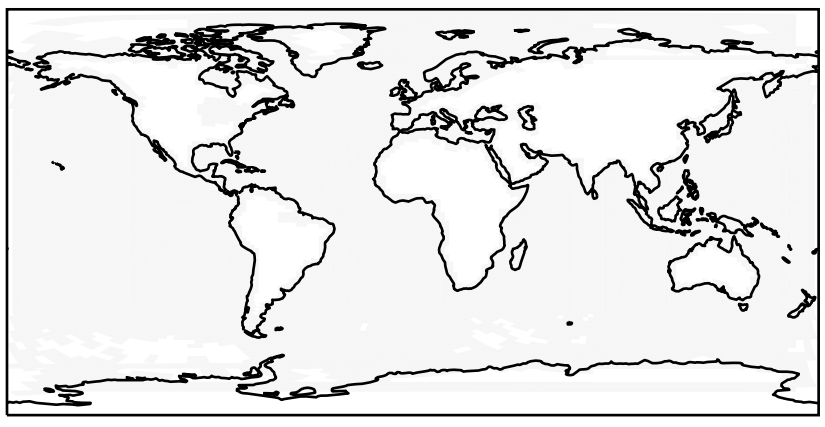


Difference
Dev - Ref, Restricted Range [5%,95%]

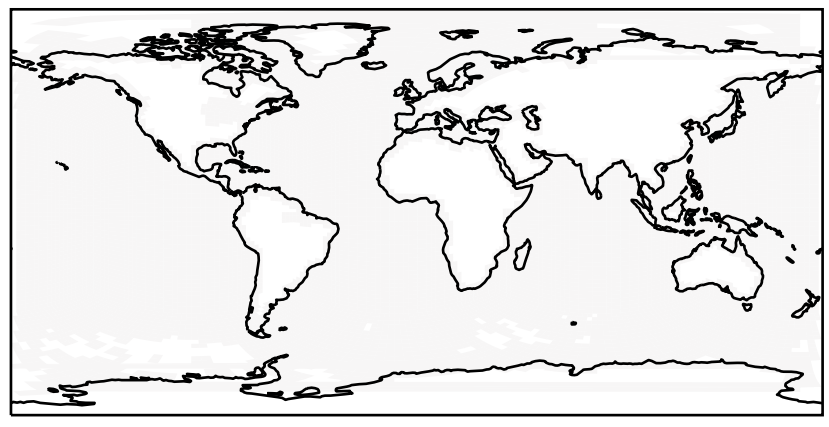


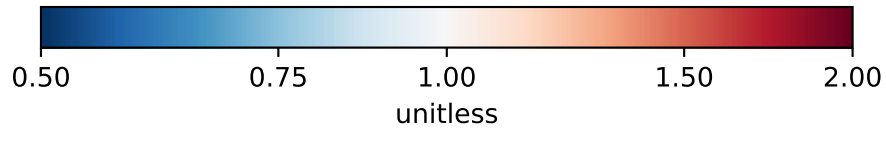


Ratio
Dev/Ref, Dynamic Range



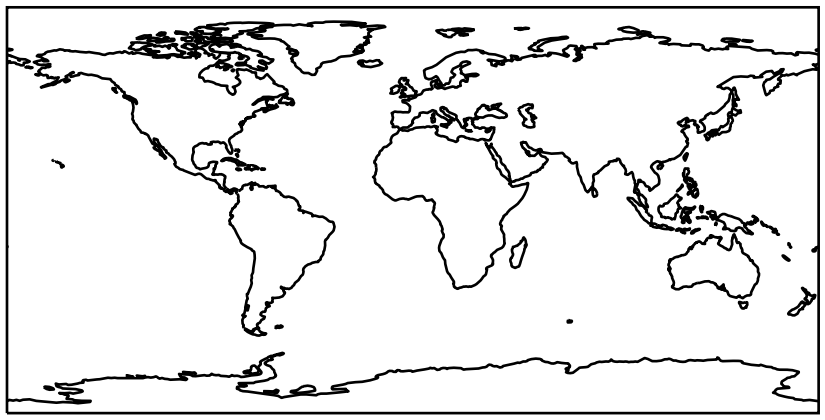
Ratio
Dev/Ref, Fixed Range





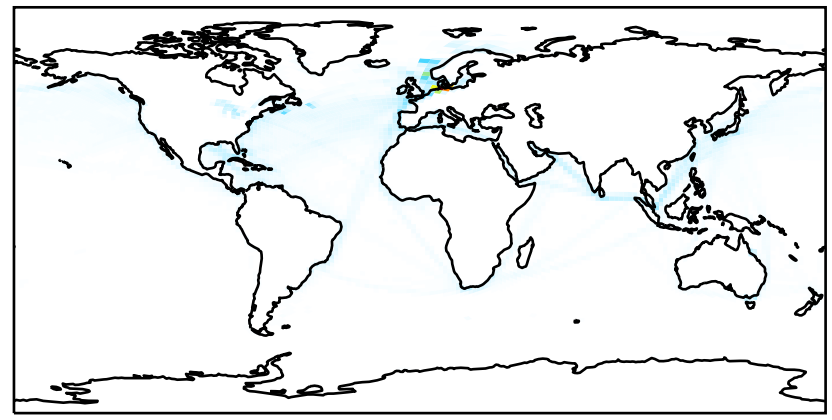
EmisC2H2_Ship

GCHP_13.2.0 (Ref)
c48



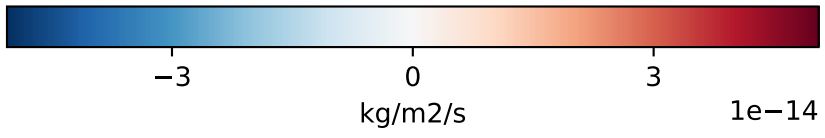
Zero throughout domain
kg/m2/s

GCHP_13.3.0-rc.1 (Dev)
c48



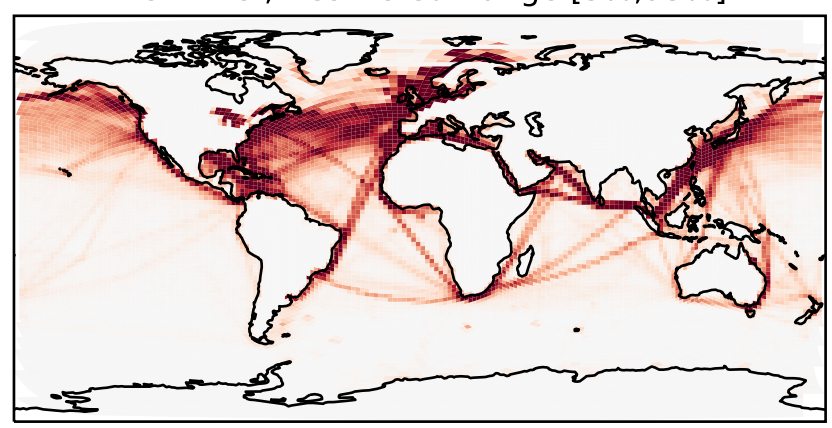
0.0 1.5 3.0 4.5
kg/m2/s
1e−14

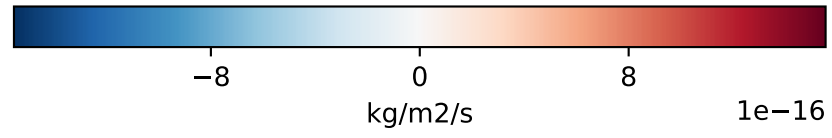
Difference
Dev - Ref, Dynamic Range



−3 0 3
kg/m2/s
1e−14

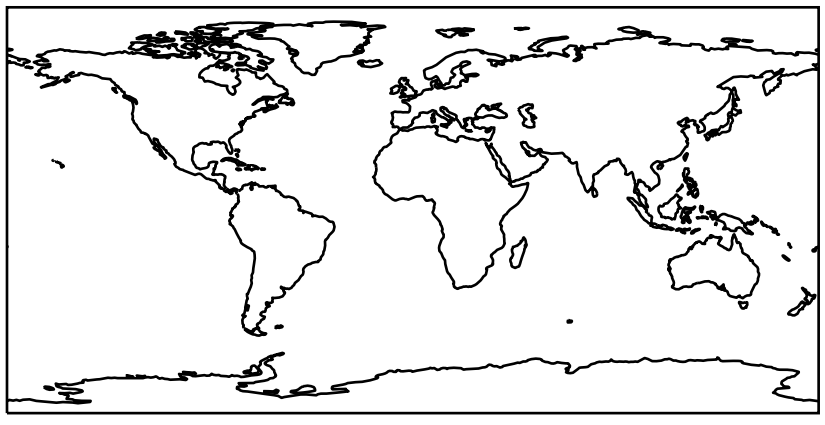
Difference
Dev - Ref, Restricted Range [5%,95%]





−8 0 8
kg/m2/s
1e−16

Ratio
Dev/Ref, Dynamic Range



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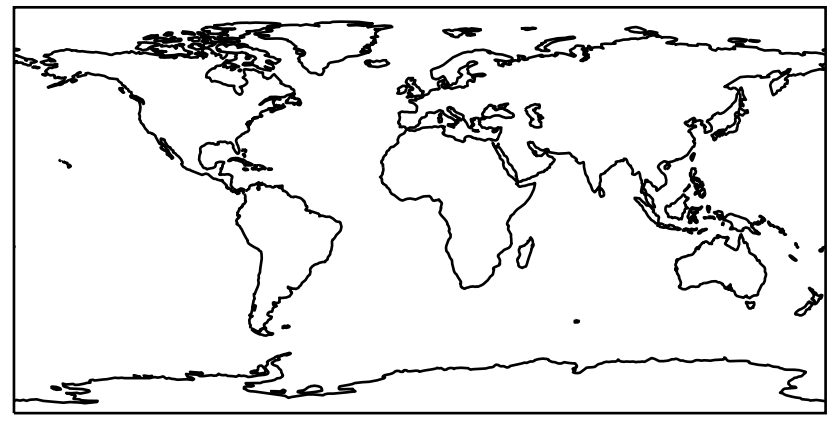
unitless

Ratio
Dev/Ref, Fixed Range



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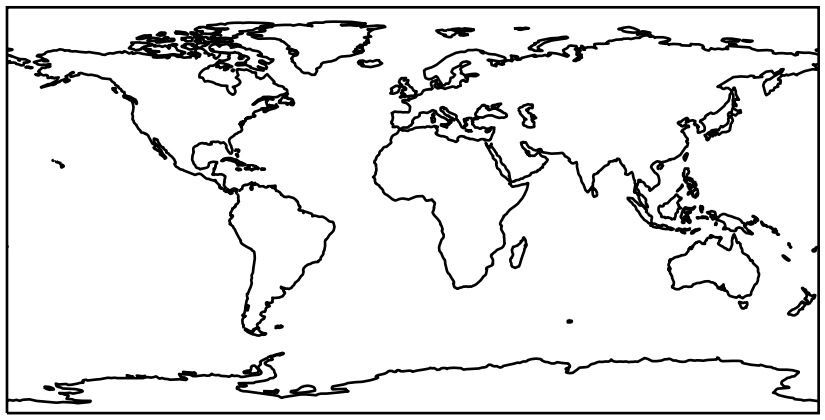
unitless

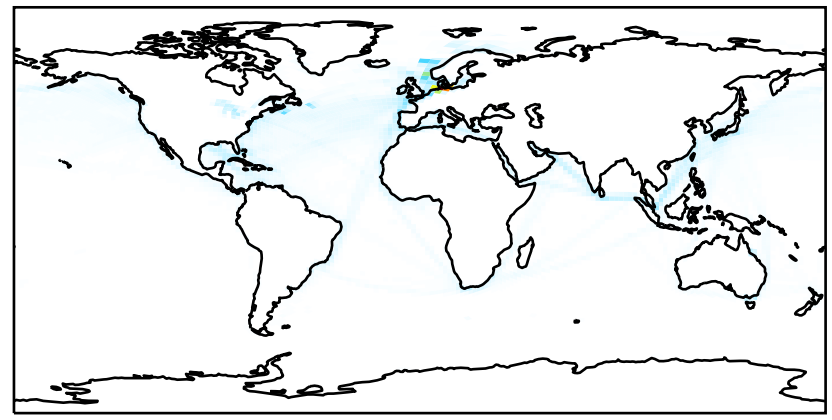
EmisC2H4_Ship

GCHP_13.2.0 (Ref)
c48



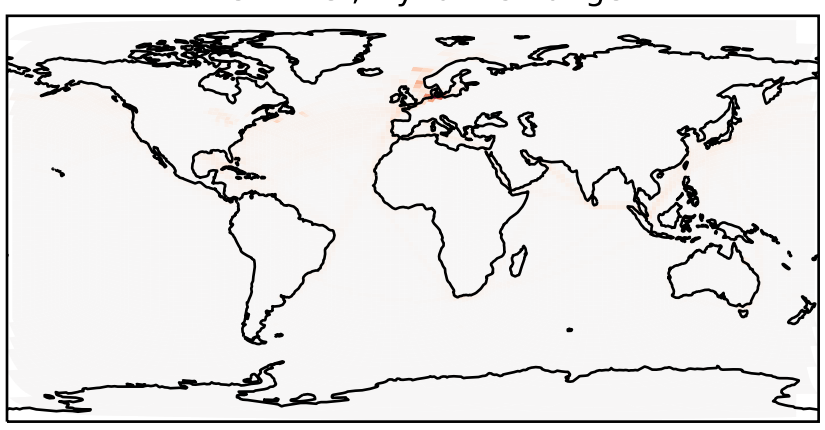
Zero throughout domain
kg/m2/s

GCHP_13.3.0-rc.1 (Dev)
c48



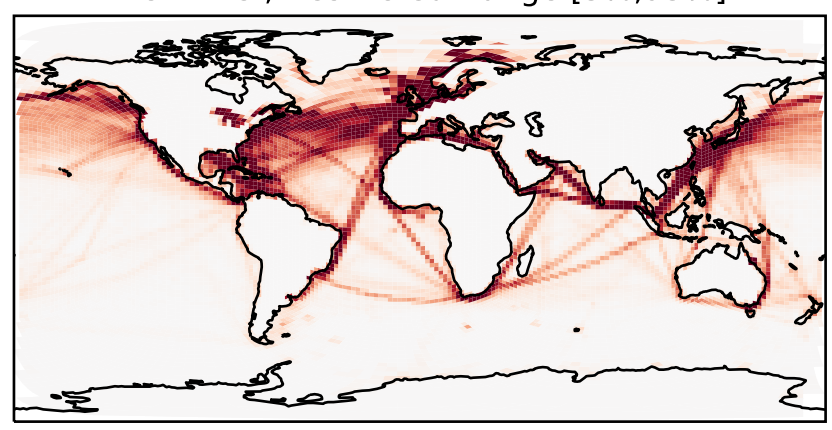
0.0 0.5 1.0 1.5
kg/m2/s
1e−12

Difference
Dev - Ref, Dynamic Range



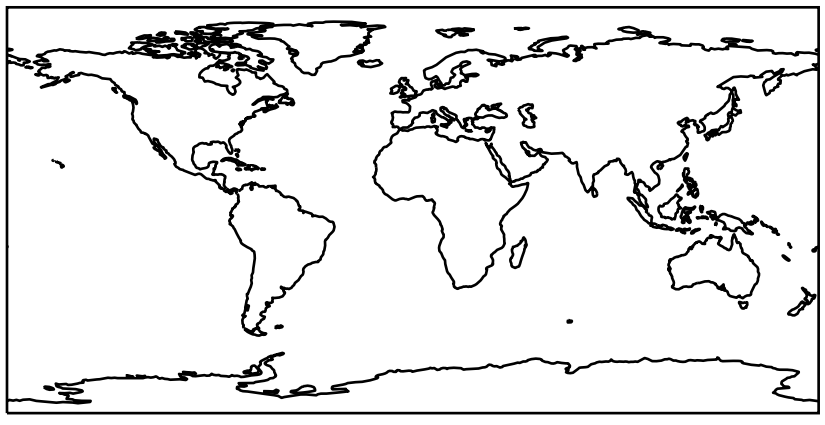
−1 0 1
kg/m2/s
1e−12

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



−3 0 3
kg/m2/s
1e−14

Ratio
Dev/Ref, Dynamic Range



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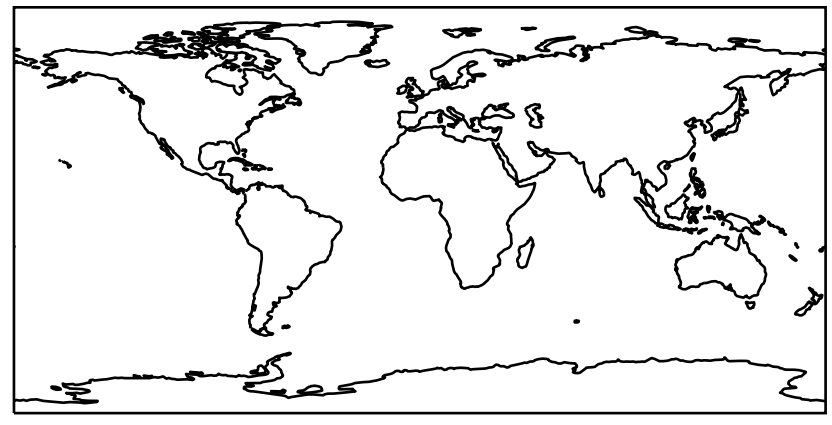
Ratio
Dev/Ref, Fixed Range



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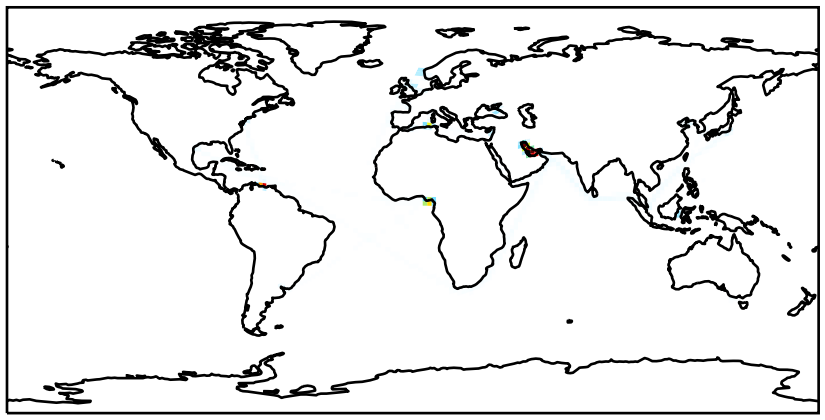
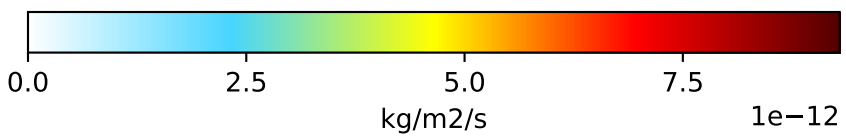
unitless

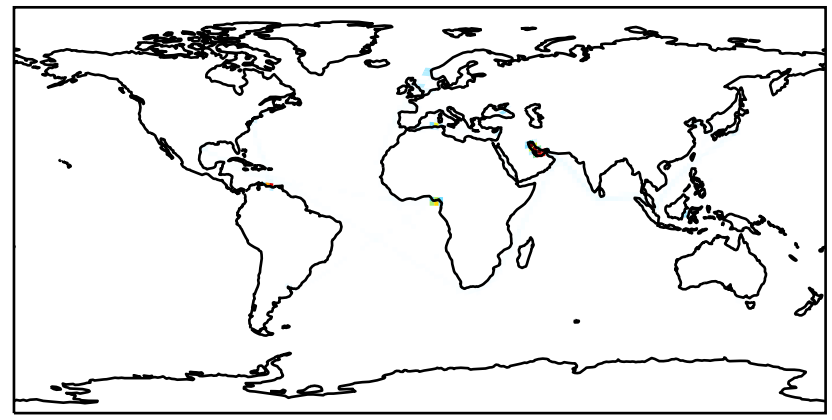
EmisC2H6_Ship

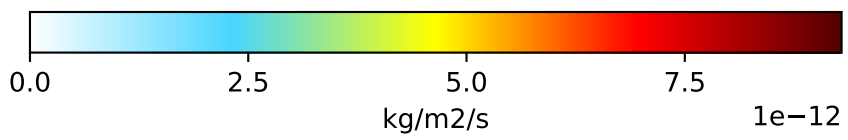
GCHP_13.2.0 (Ref)
c48



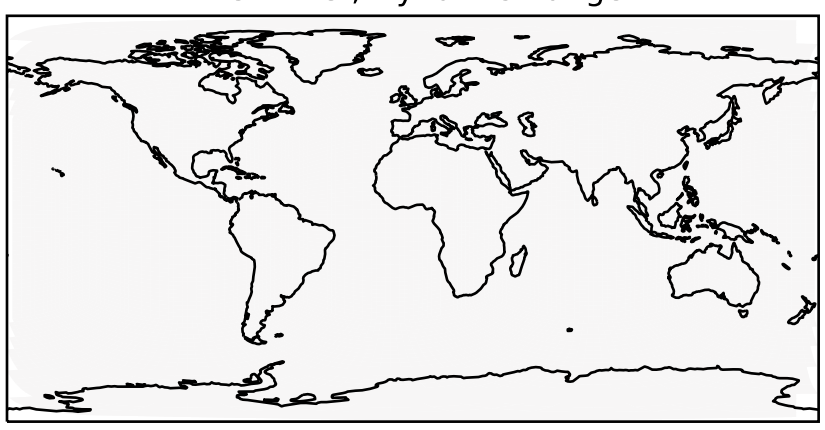


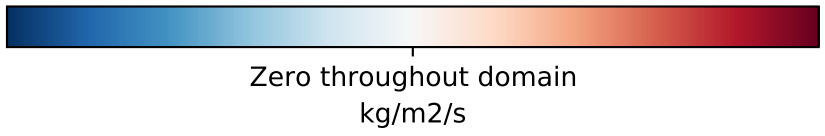
GCHP_13.3.0-rc.1 (Dev)
c48



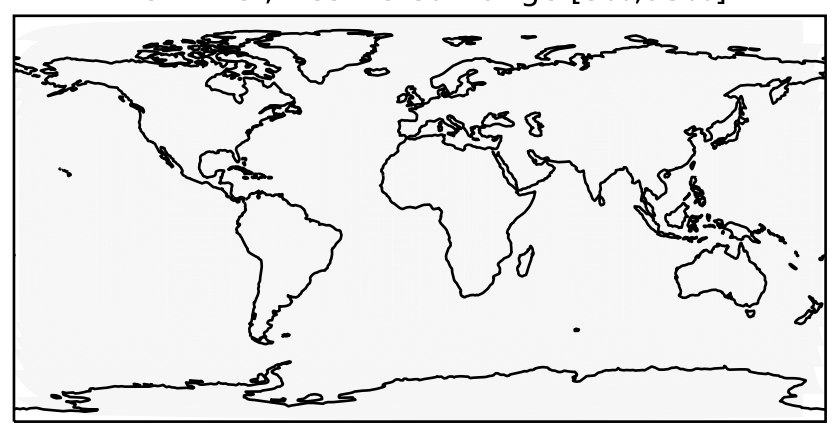


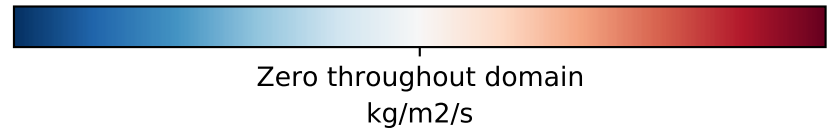
Difference
Dev - Ref, Dynamic Range



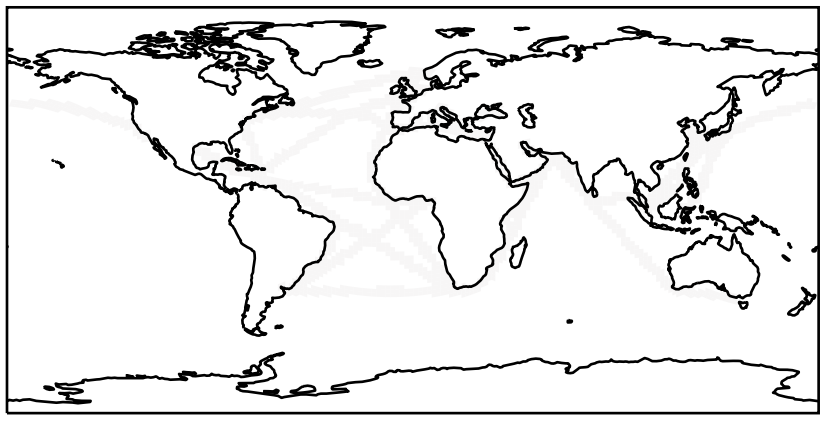


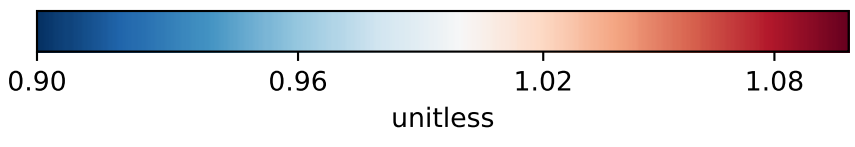
Difference
Dev - Ref, Restricted Range [5%,95%]



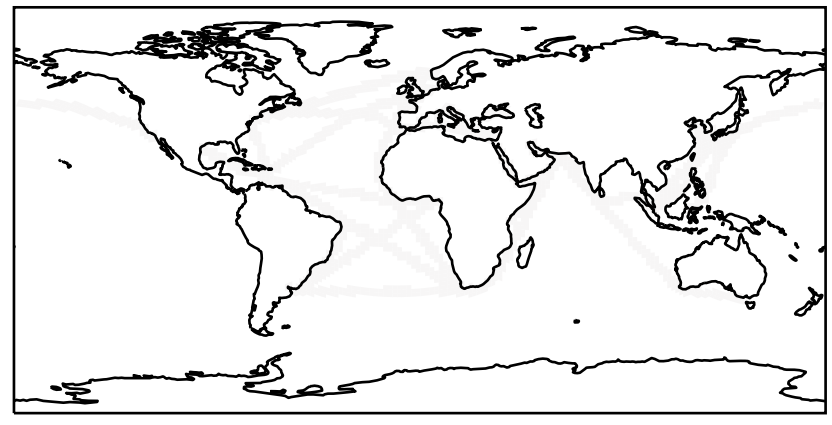


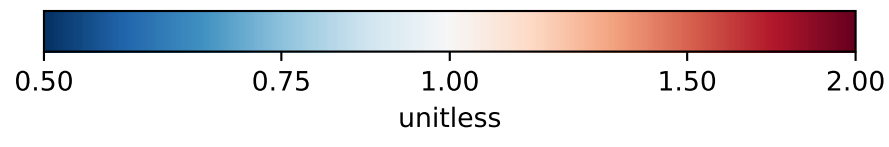
Ratio
Dev/Ref, Dynamic Range





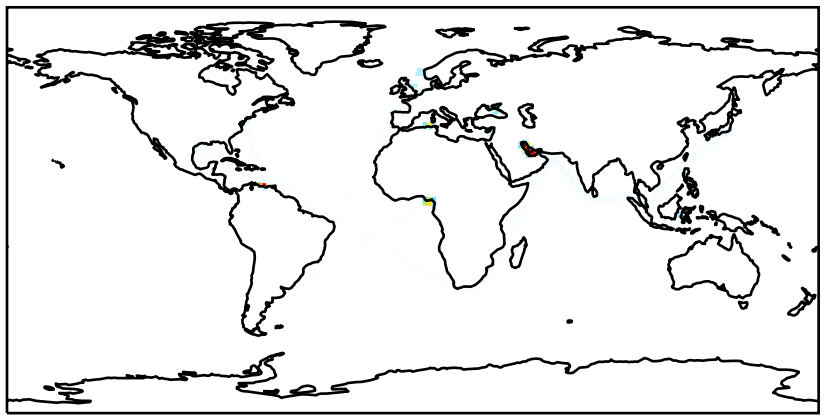
Ratio
Dev/Ref, Fixed Range

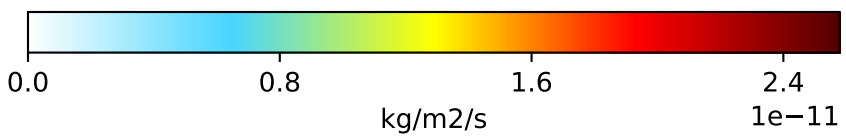




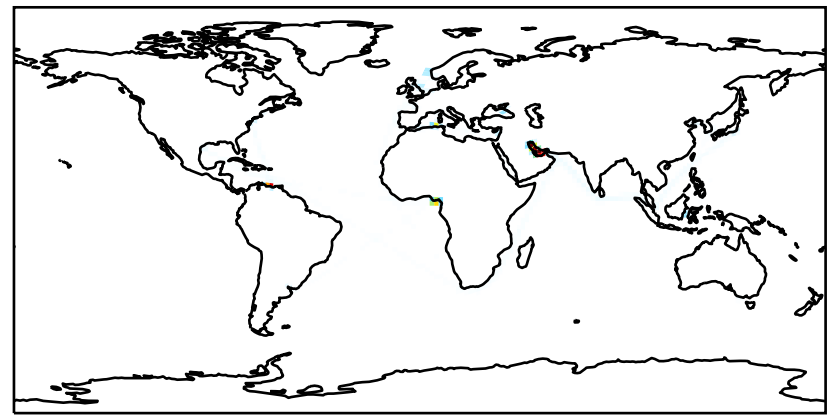
EmisC3H8_Ship

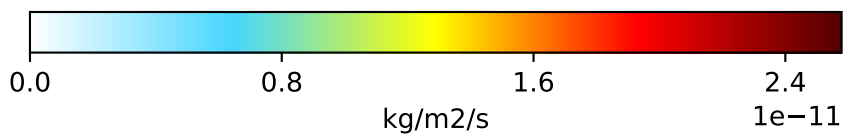
GCHP_13.2.0 (Ref)
c48



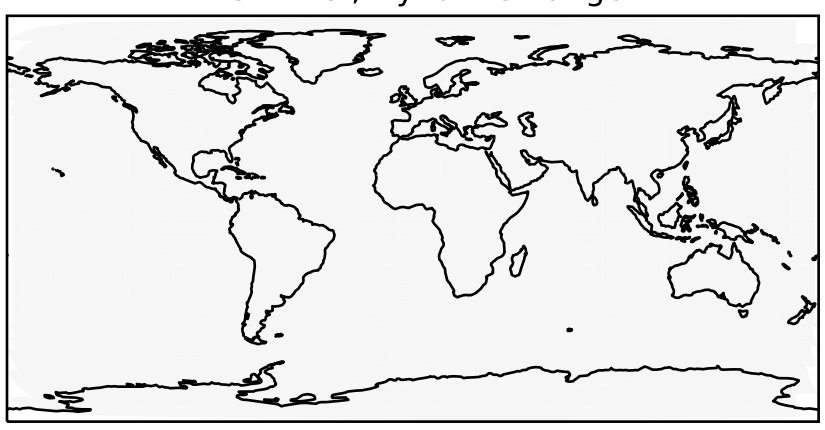


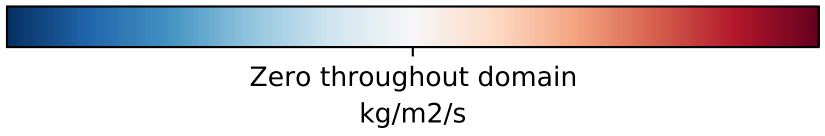
GCHP_13.3.0-rc.1 (Dev)
c48



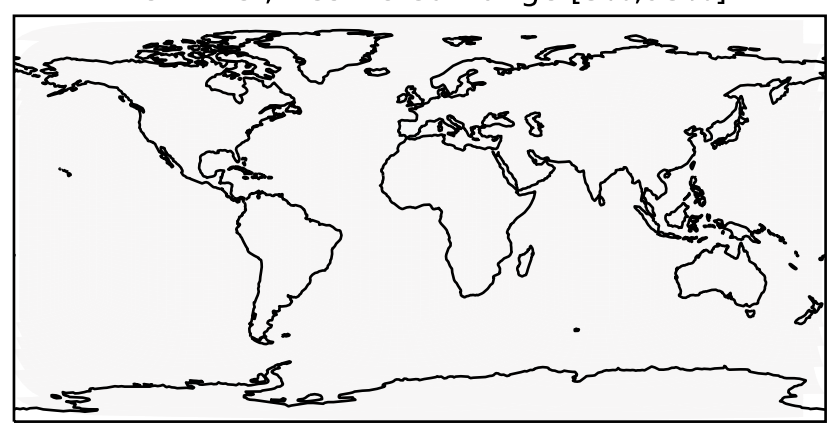


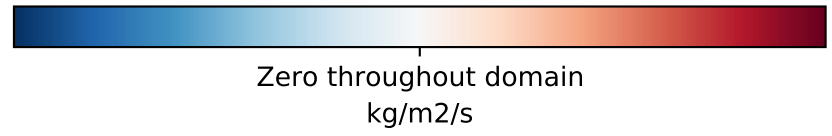
Difference
Dev - Ref, Dynamic Range



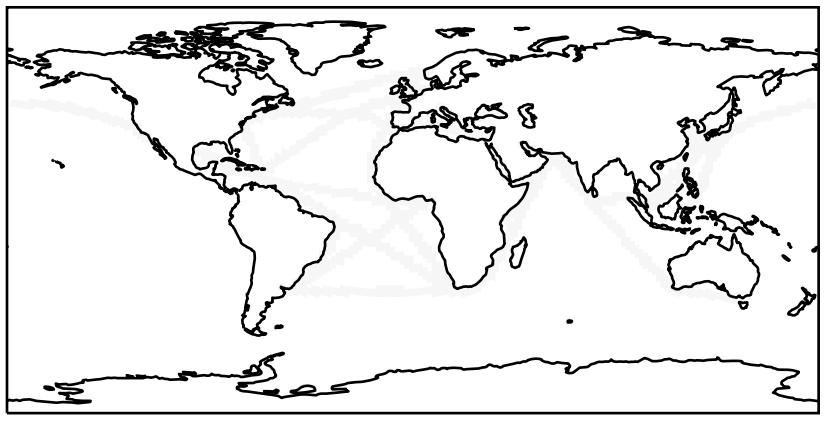


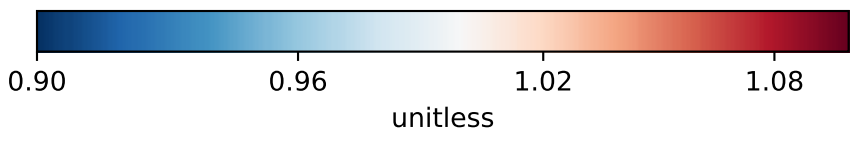
Difference
Dev - Ref, Restricted Range [5%,95%]



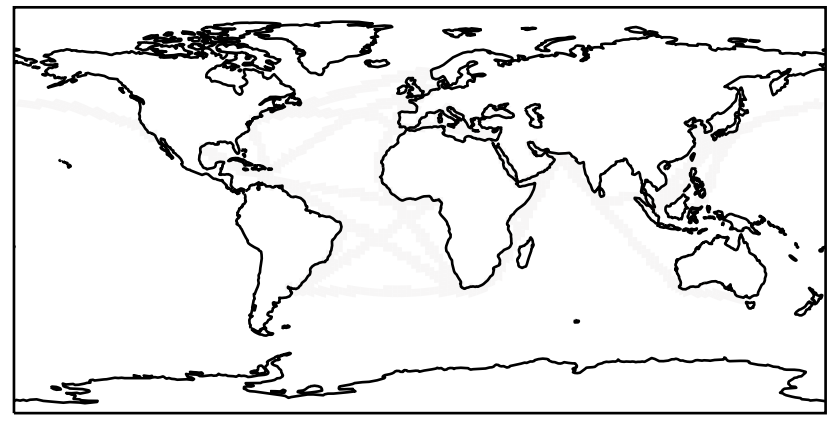


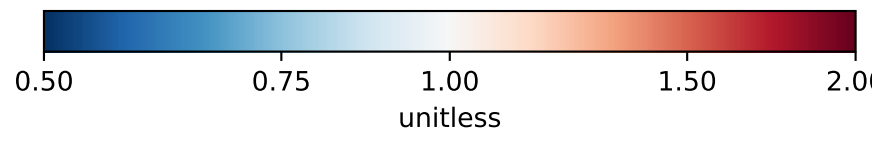
Ratio
Dev/Ref, Dynamic Range





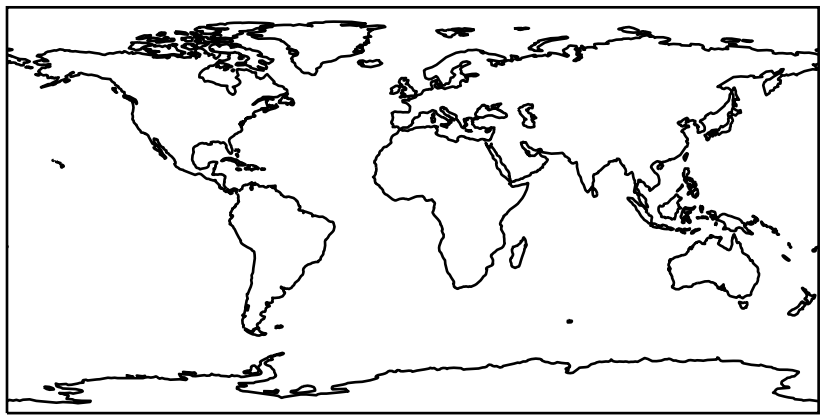
Ratio
Dev/Ref, Fixed Range





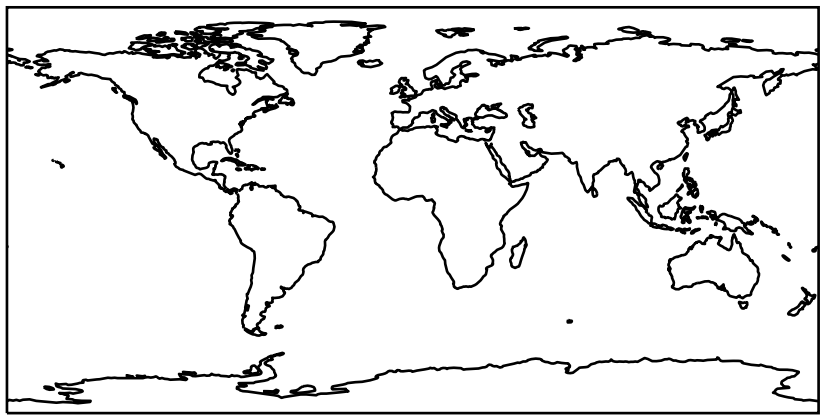
EmisCH2O_Ship

GCHP_13.2.0 (Ref)
c48



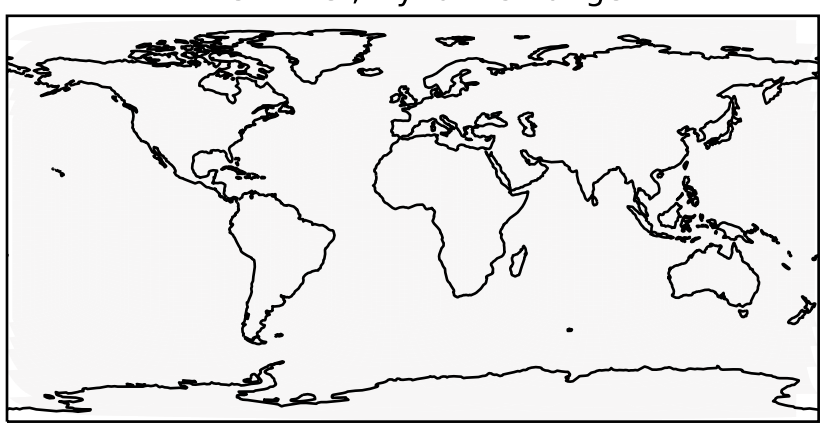
Zero throughout domain
kg/m2/s

GCHP_13.3.0-rc.1 (Dev)
c48



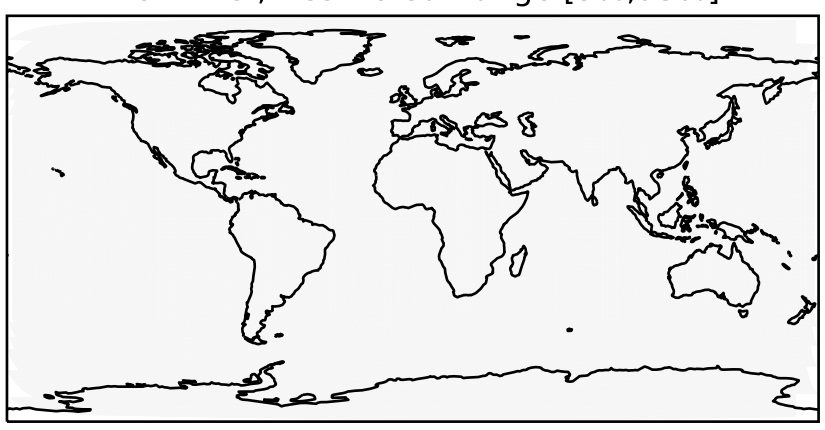
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



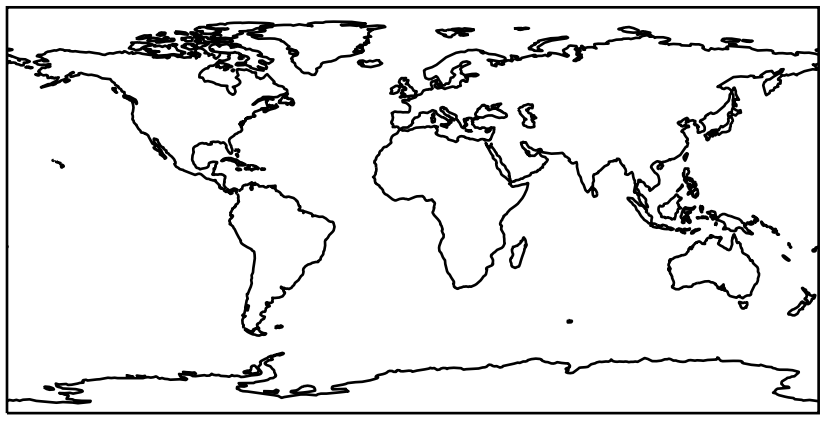
Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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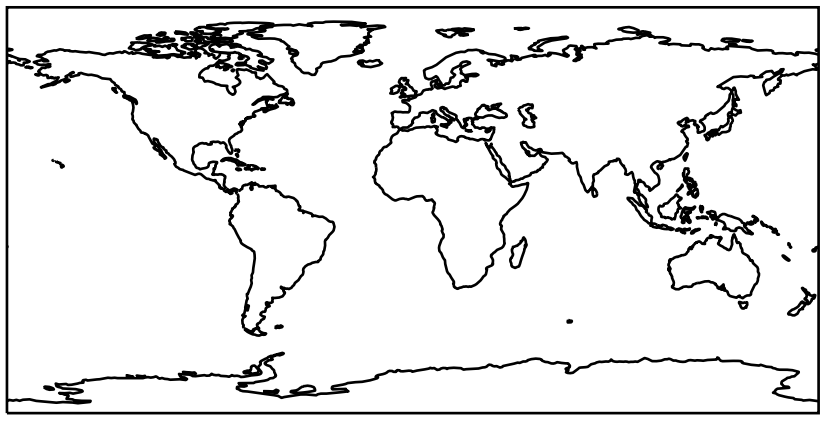
Ratio
Dev/Ref, Fixed Range



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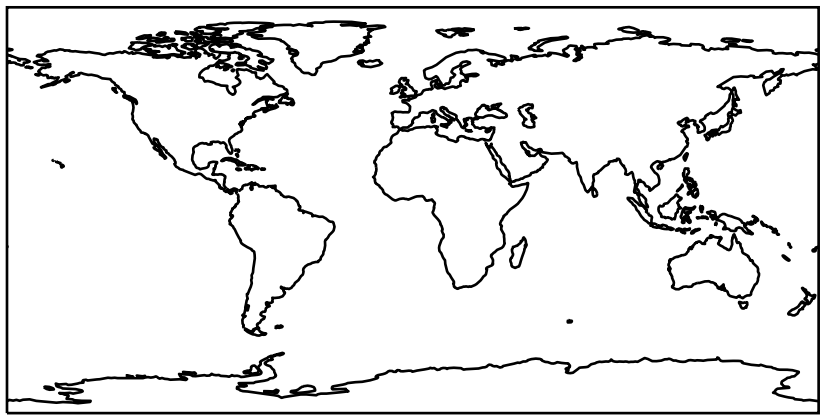
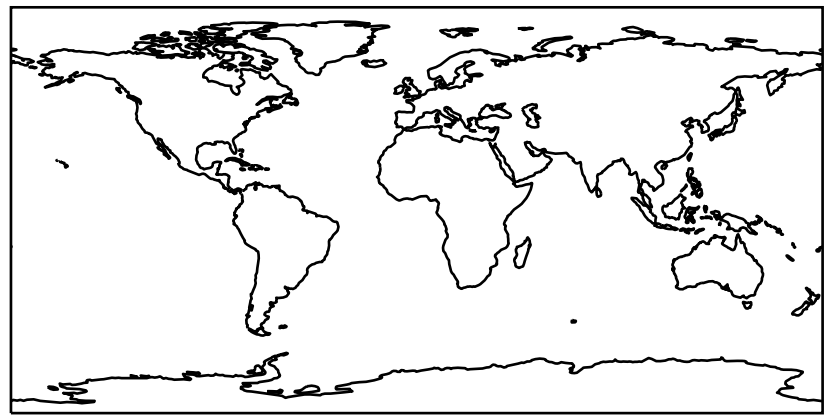
EmisCO2_Ship

GCHP_13.2.0 (Ref)
c48



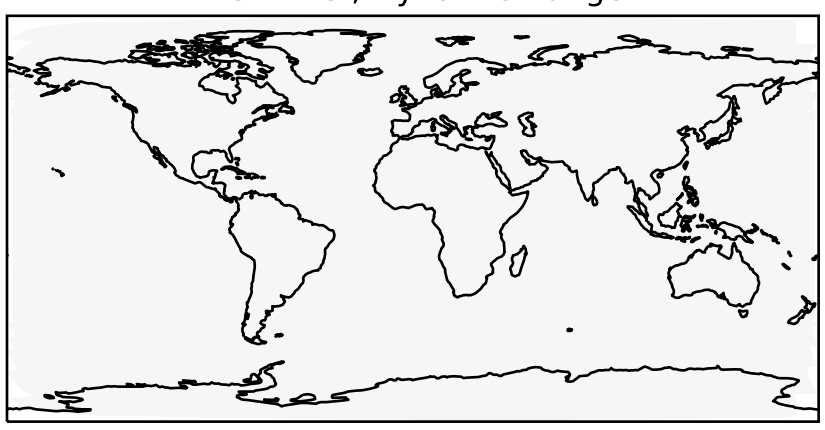
Zero throughout domain
kg/m2/s

GCHP_13.3.0-rc.1 (Dev)
c48



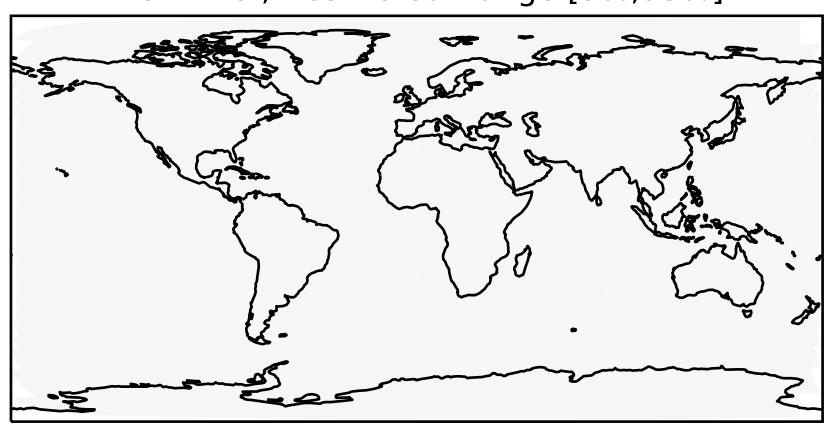
Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range



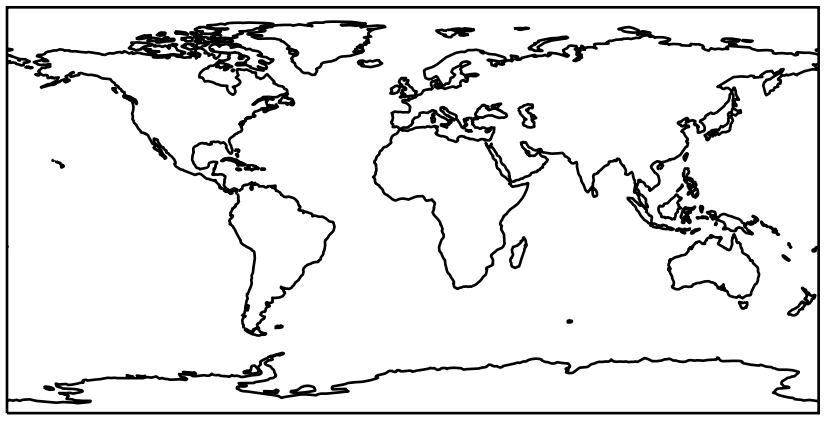
Zero throughout domain
kg/m2/s

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



Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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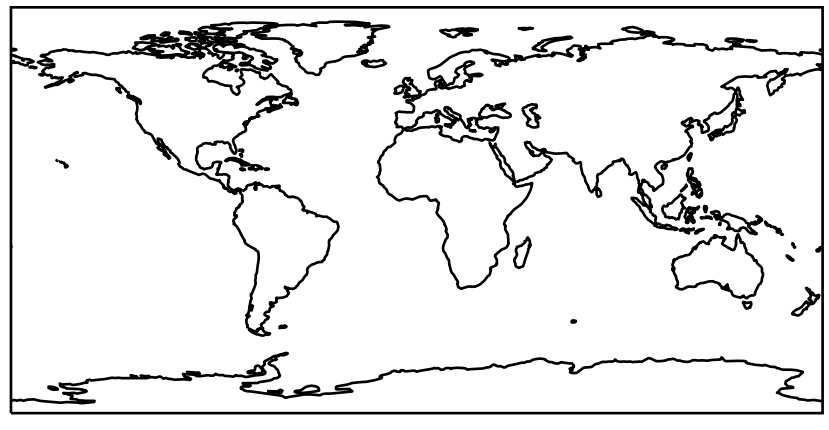
Ratio
Dev/Ref, Fixed Range



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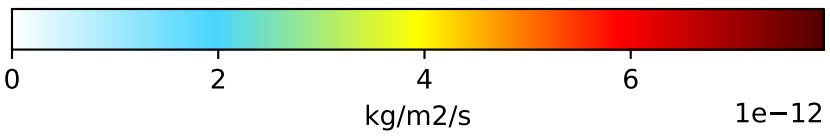
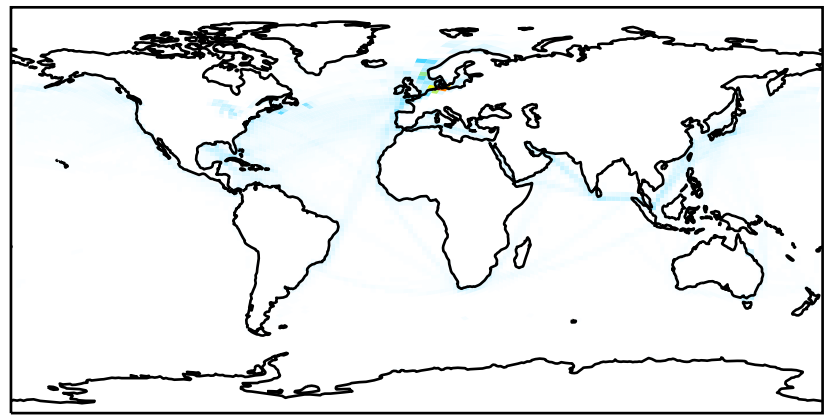
unitless

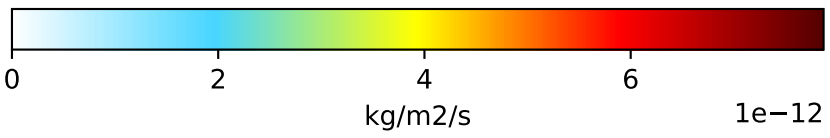
EmisCO_Ship

GCHP_13.2.0 (Ref)
c48

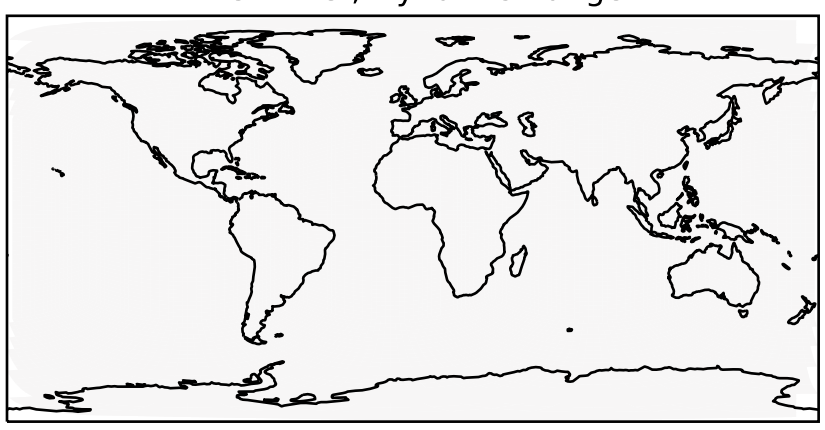


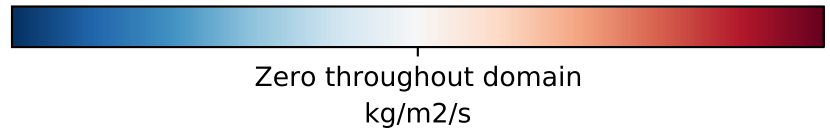
GCHP_13.3.0-rc.1 (Dev)
c48



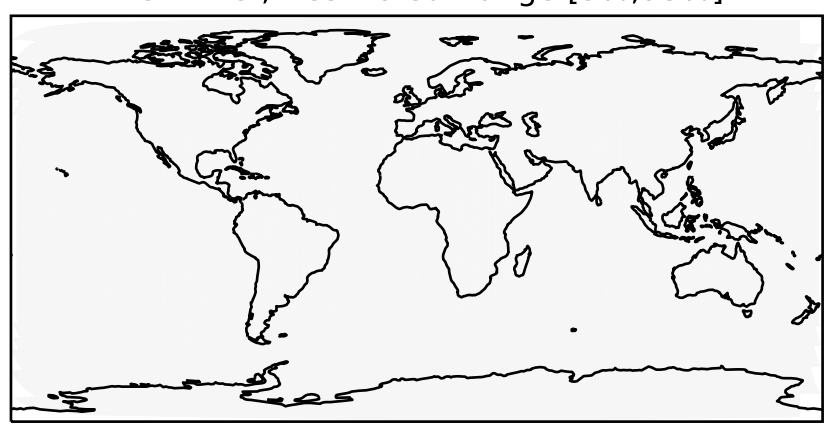


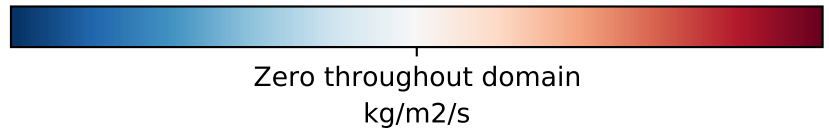
Difference
Dev - Ref, Dynamic Range



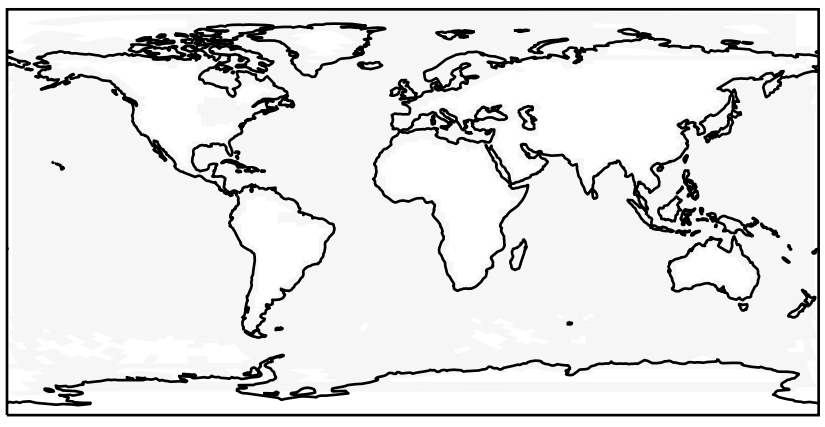


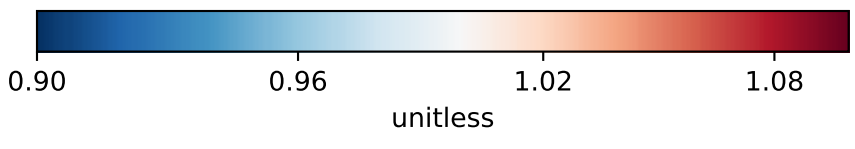
Difference
Dev - Ref, Restricted Range [5%,95%]



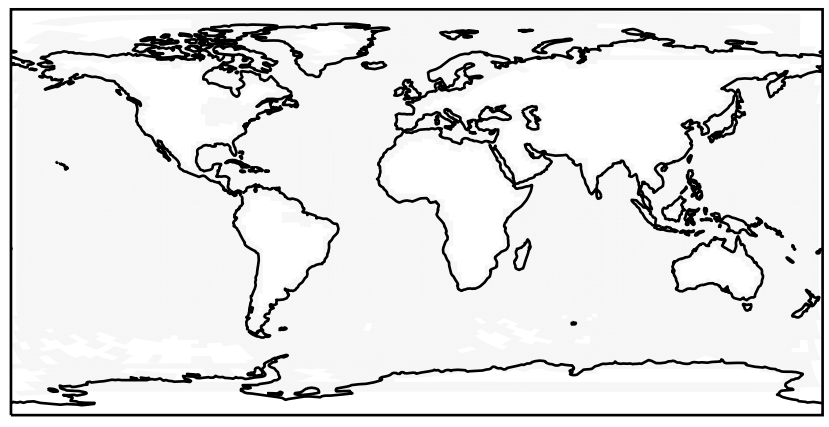


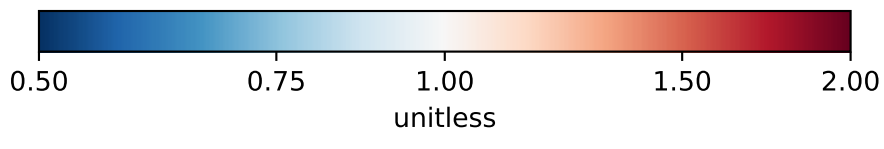
Ratio
Dev/Ref, Dynamic Range





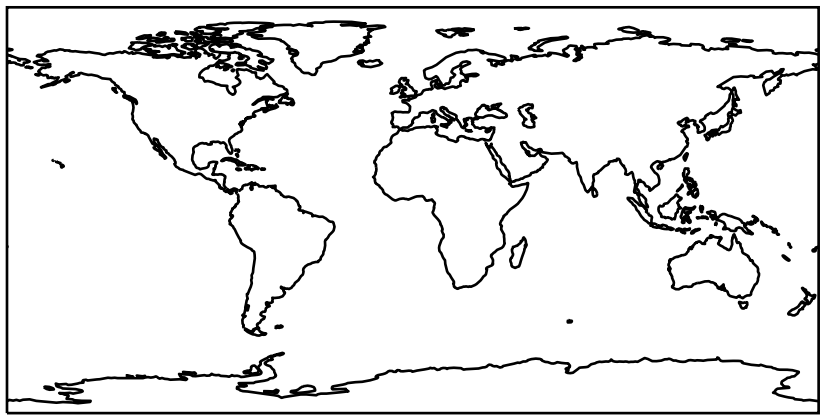
Ratio
Dev/Ref, Fixed Range





EmisEOH_Ship

GCHP_13.2.0 (Ref)
c48



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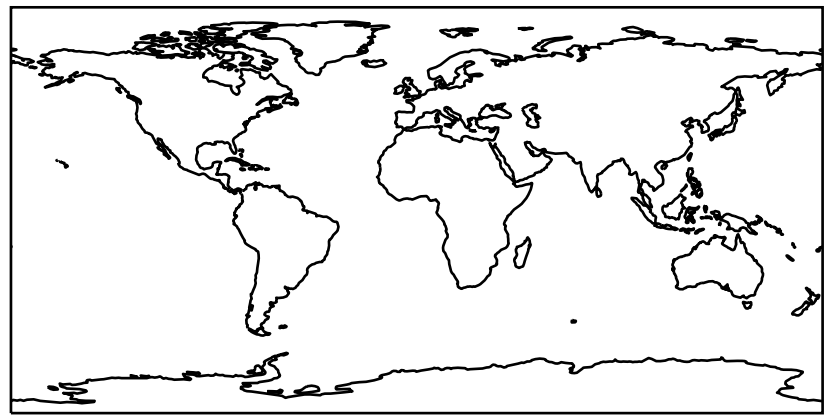
kg/m2/s

GCHP_13.3.0-rc.1 (Dev)
c48



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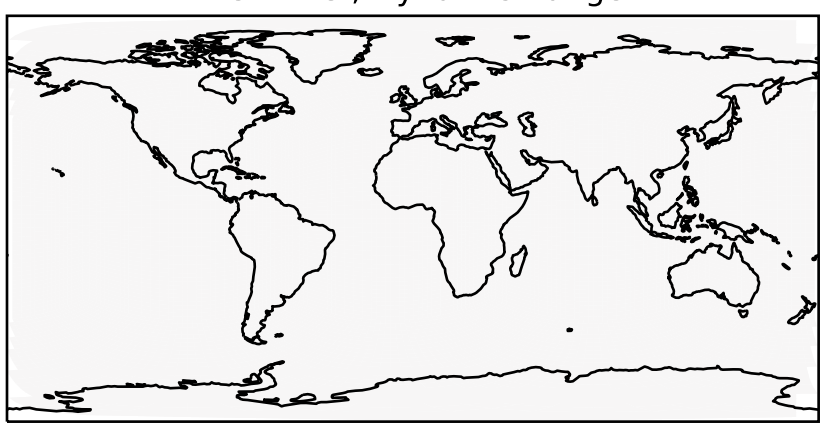
kg/m2/s

Difference
Dev - Ref, Dynamic Range



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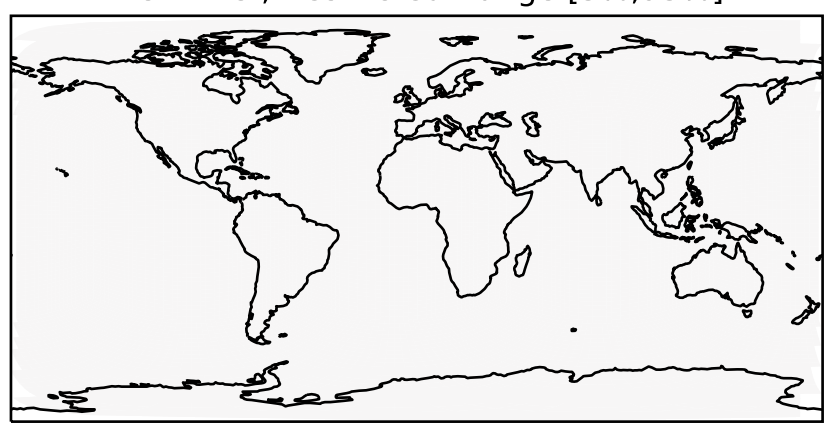
kg/m2/s

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



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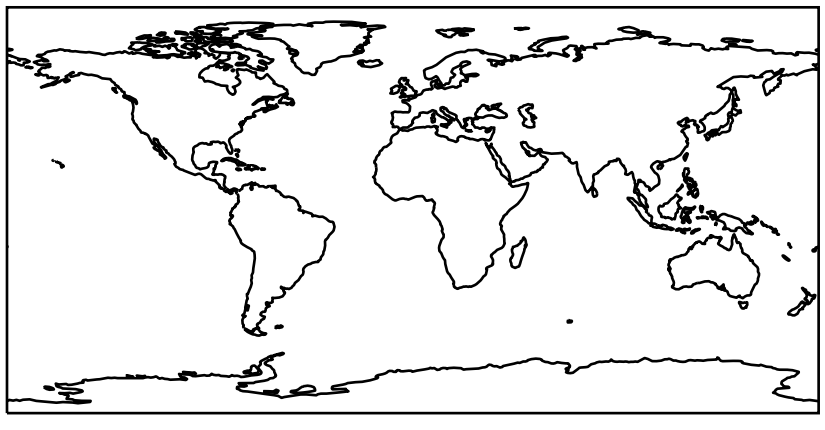
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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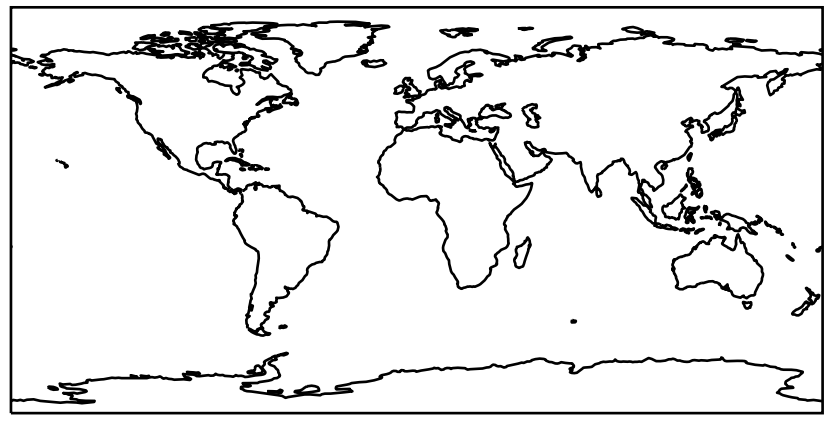
Ratio
Dev/Ref, Fixed Range



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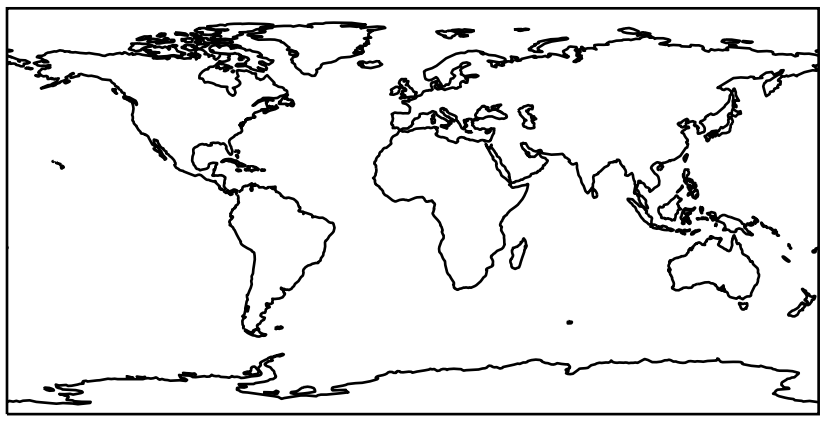
EmisHCOOH_Ship

GCHP_13.2.0 (Ref)
c48



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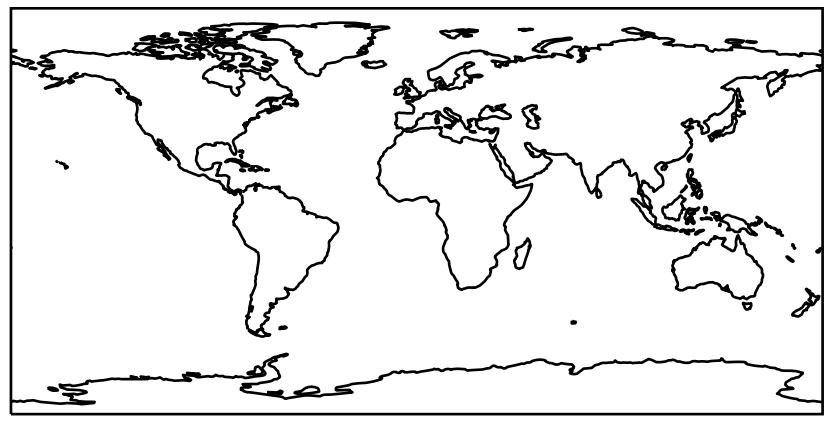
kg/m2/s

GCHP_13.3.0-rc.1 (Dev)
c48



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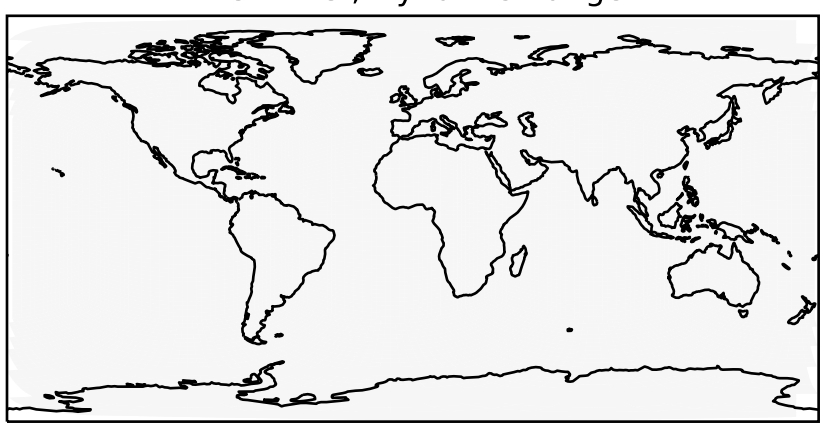
kg/m2/s

Difference
Dev - Ref, Dynamic Range



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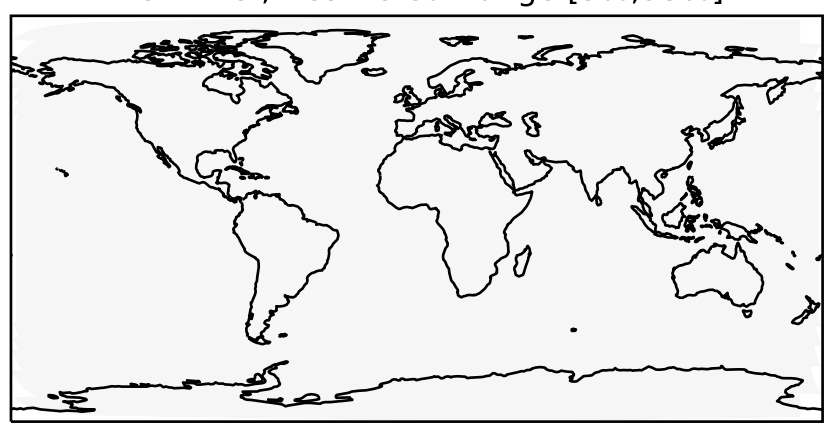
kg/m2/s

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



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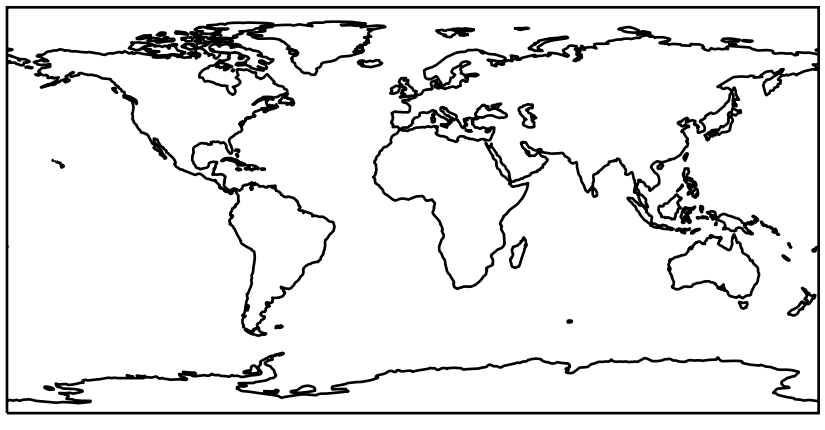
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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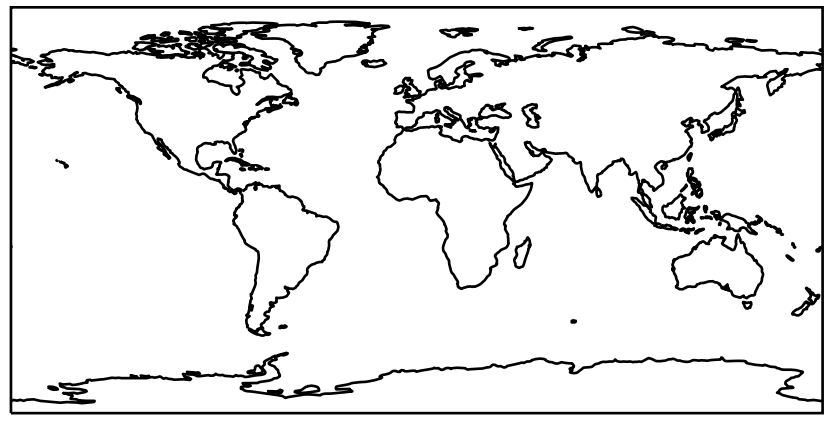
Ratio
Dev/Ref, Fixed Range



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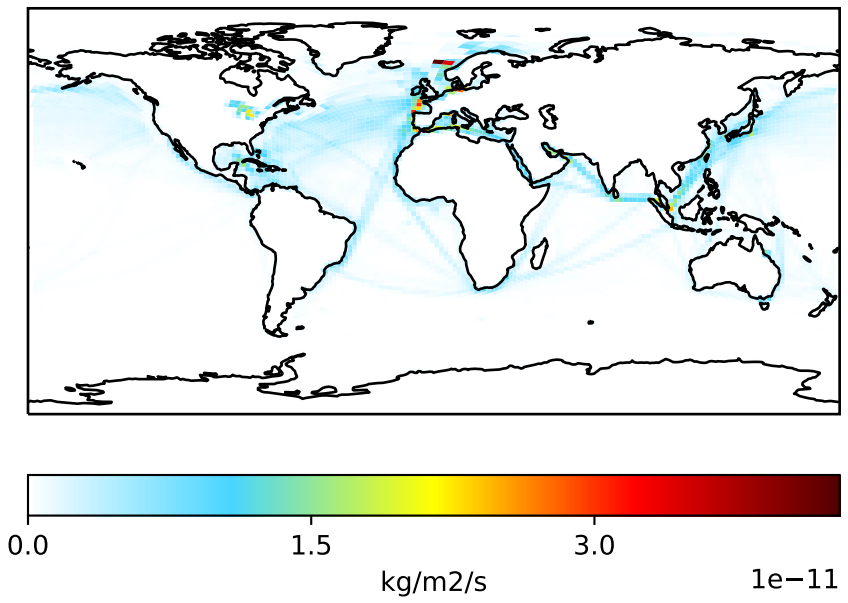
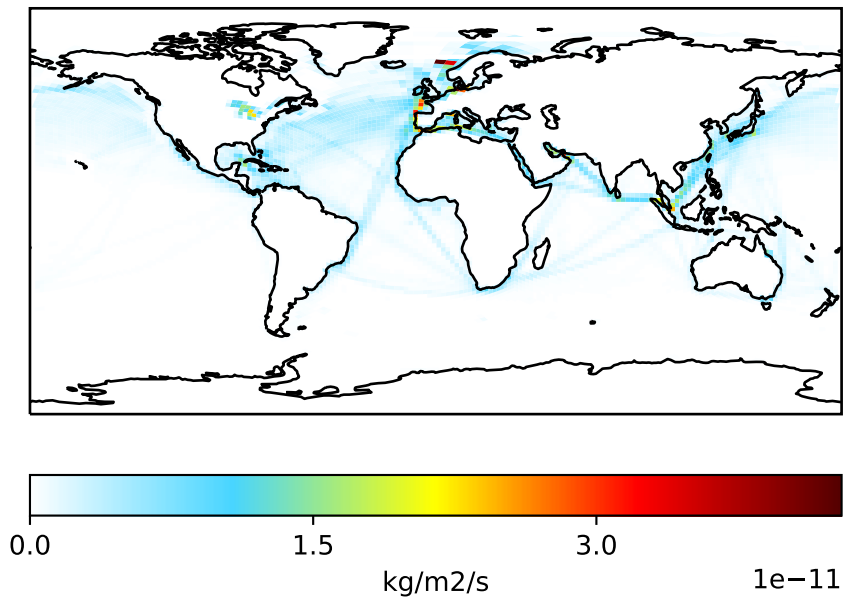
EmisHNO3_Ship

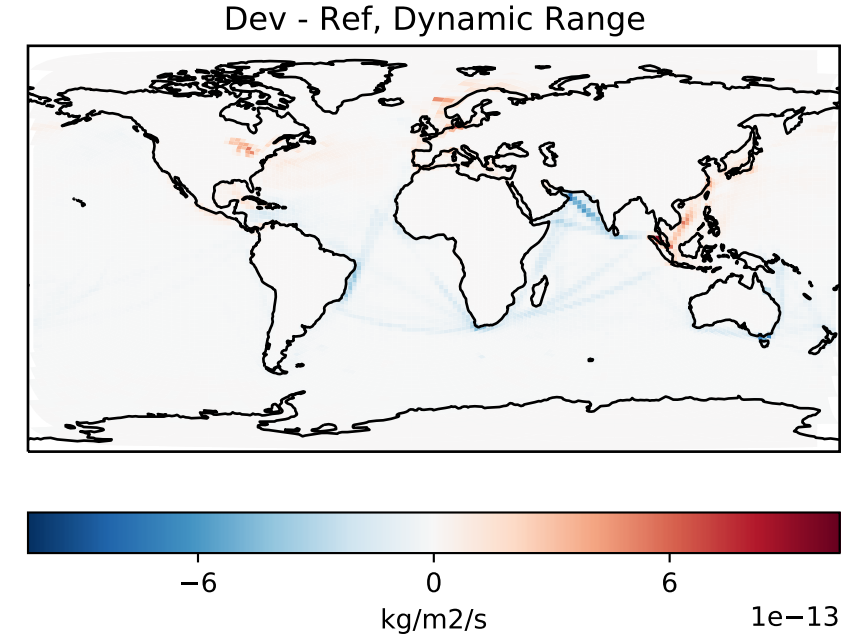
GCHP_13.2.0 (Ref)
c48



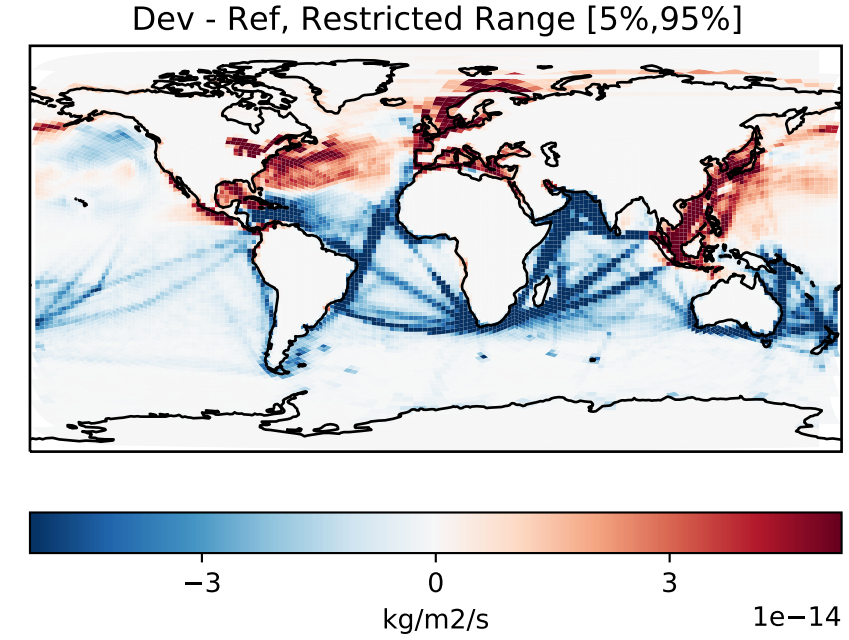
GCHP_13.3.0-rc.1 (Dev)
c48



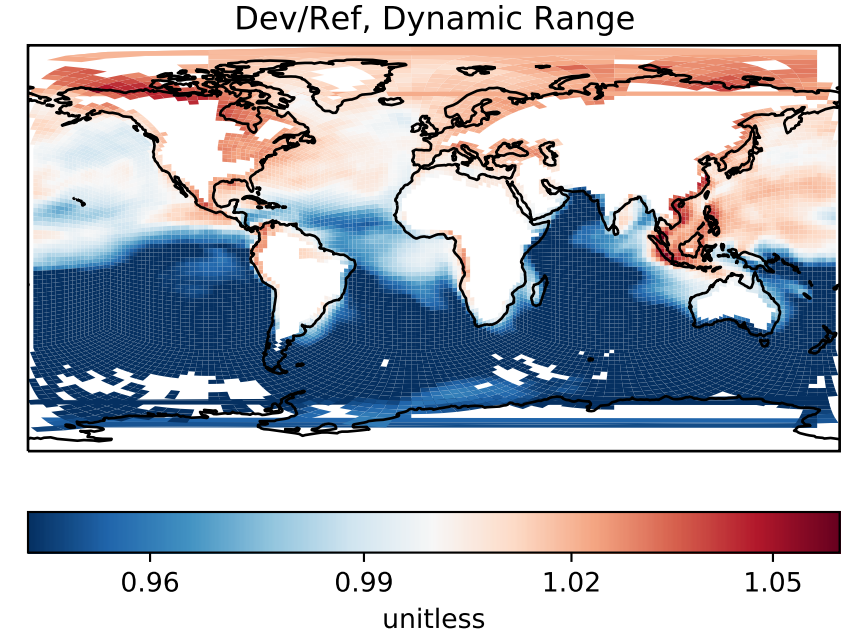
Difference
Dev - Ref, Dynamic Range



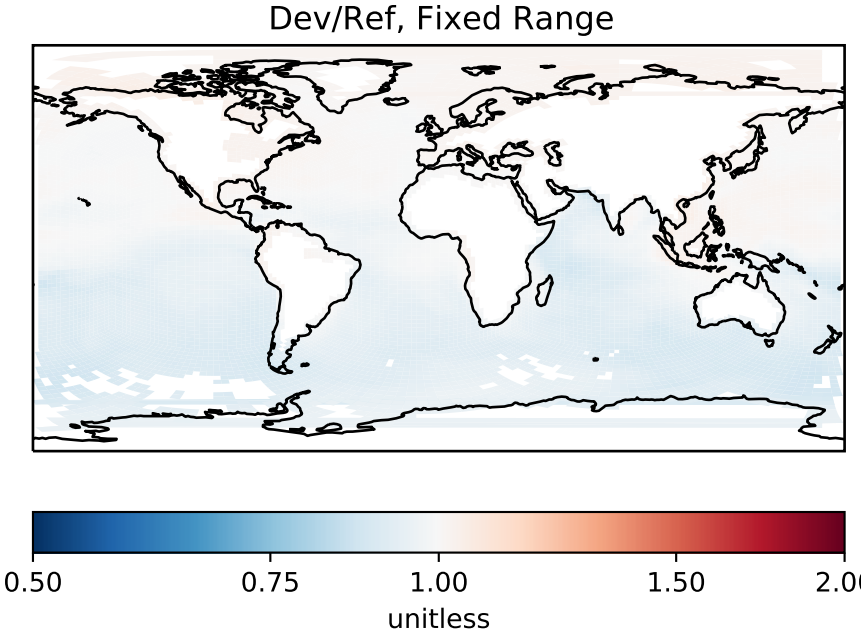
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

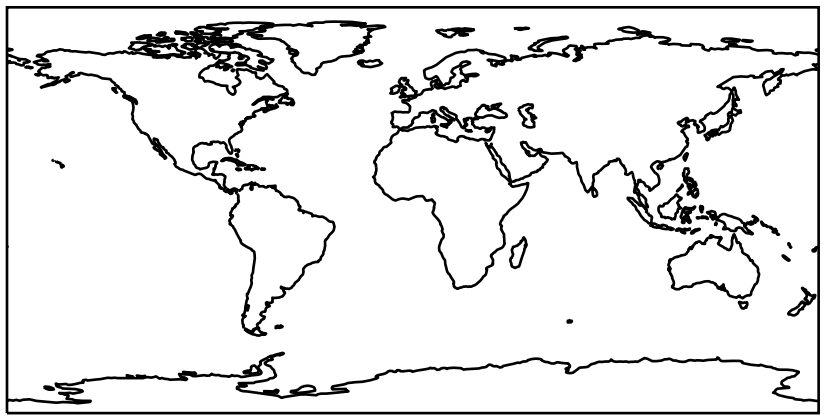


Ratio
Dev/Ref, Fixed Range



EmisMEK_Ship

GCHP_13.2.0 (Ref)
c48



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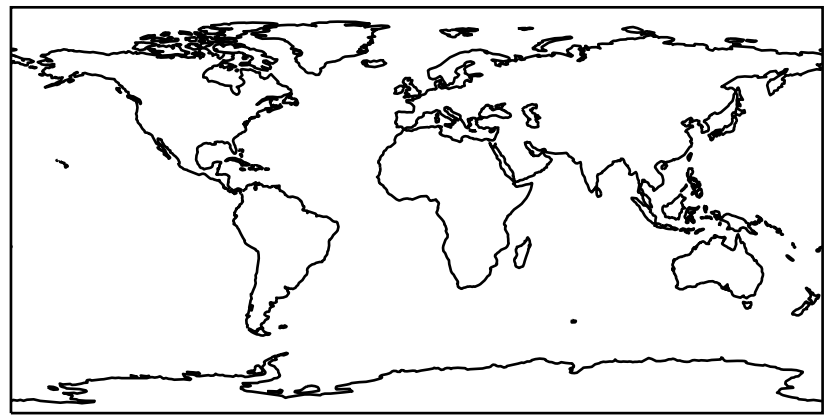
kg/m2/s

GCHP_13.3.0-rc.1 (Dev)
c48



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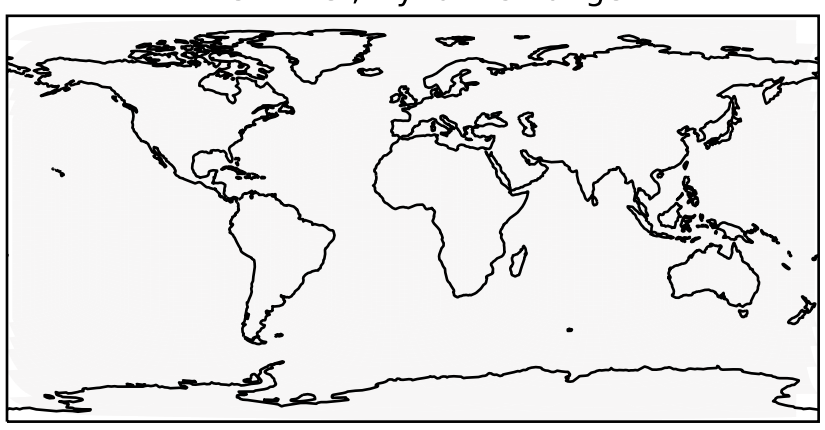
kg/m2/s

Difference
Dev - Ref, Dynamic Range



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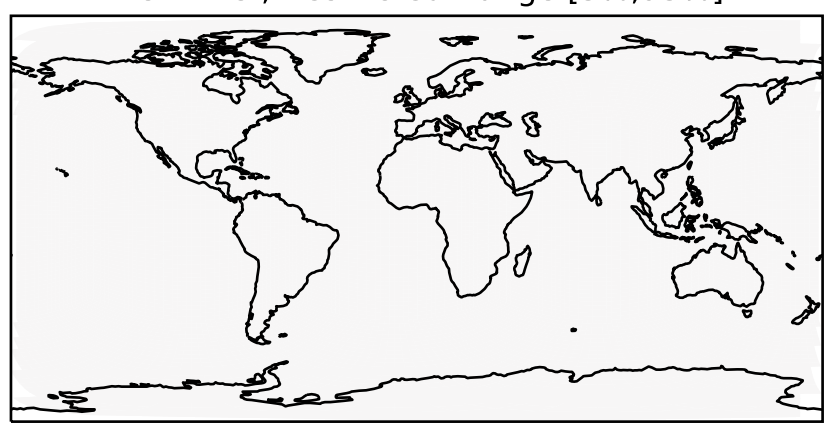
kg/m2/s

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



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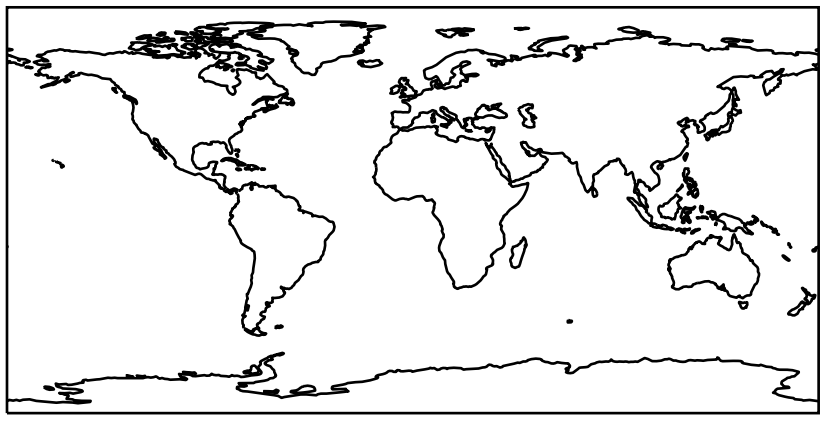
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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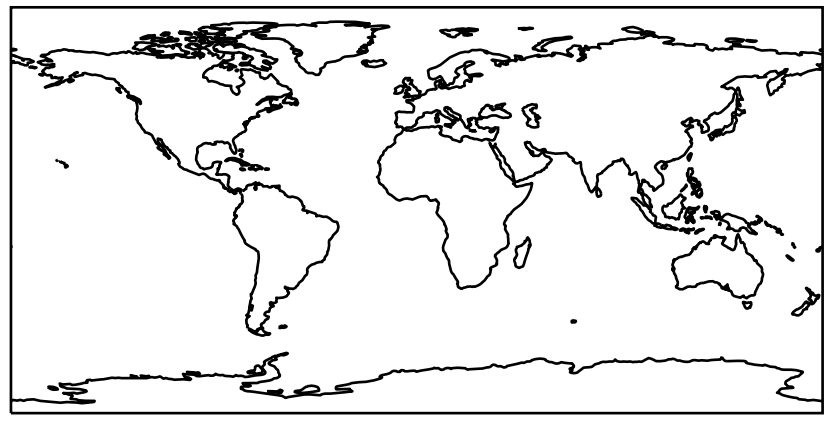
Ratio
Dev/Ref, Fixed Range



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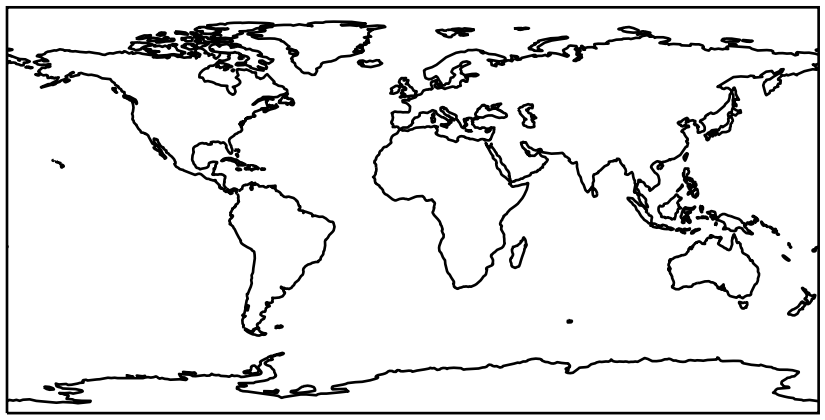
EmisMOH_Ship

GCHP_13.2.0 (Ref)
c48



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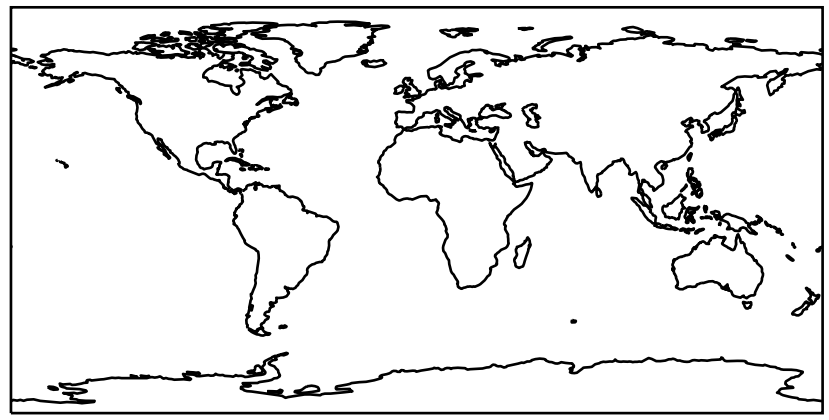
kg/m2/s

GCHP_13.3.0-rc.1 (Dev)
c48



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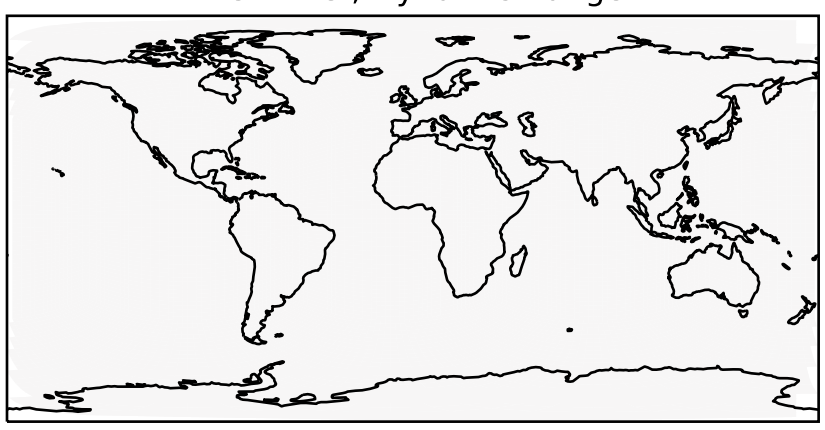
kg/m2/s

Difference
Dev - Ref, Dynamic Range



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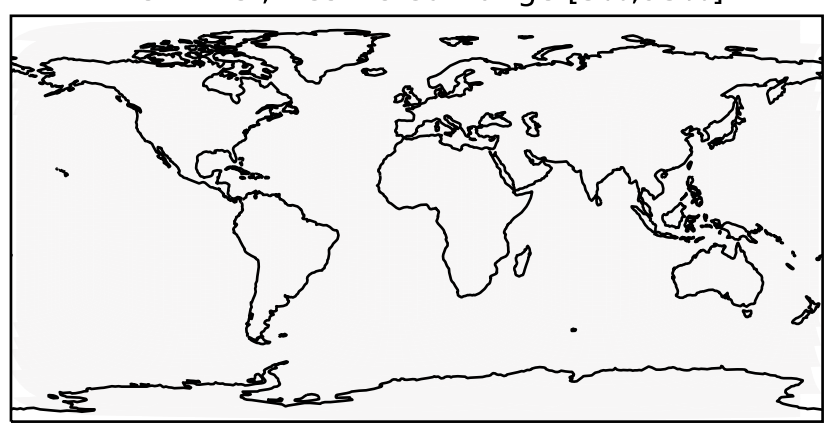
kg/m2/s

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



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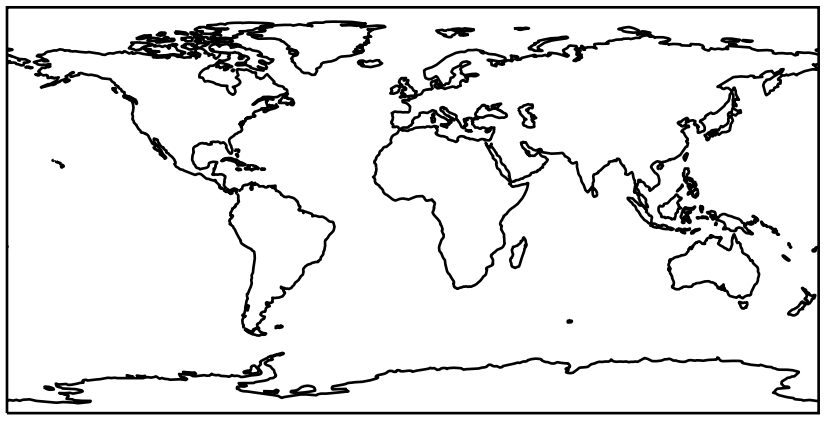
kg/m2/s

Ratio
Dev/Ref, Dynamic Range



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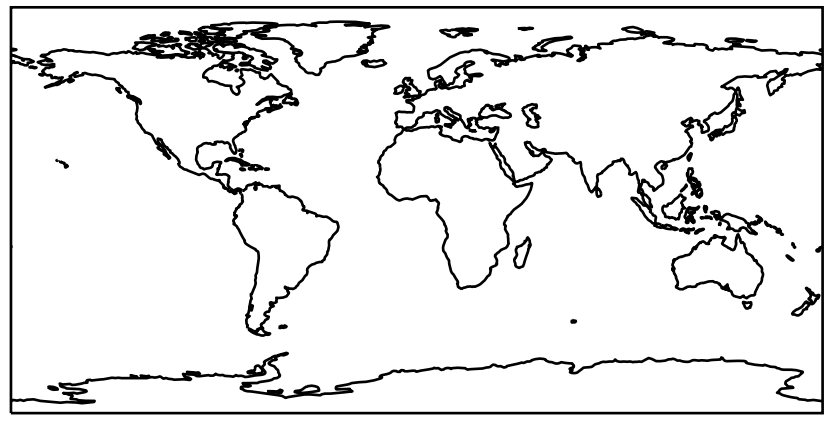
Ratio
Dev/Ref, Fixed Range



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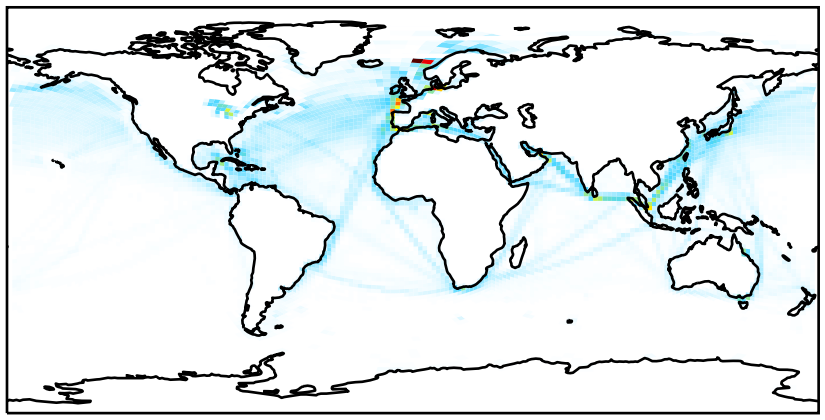
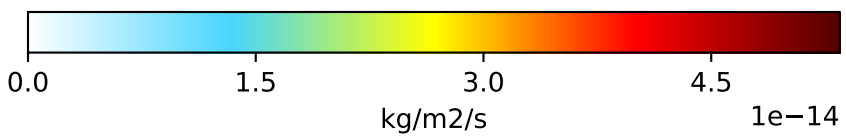
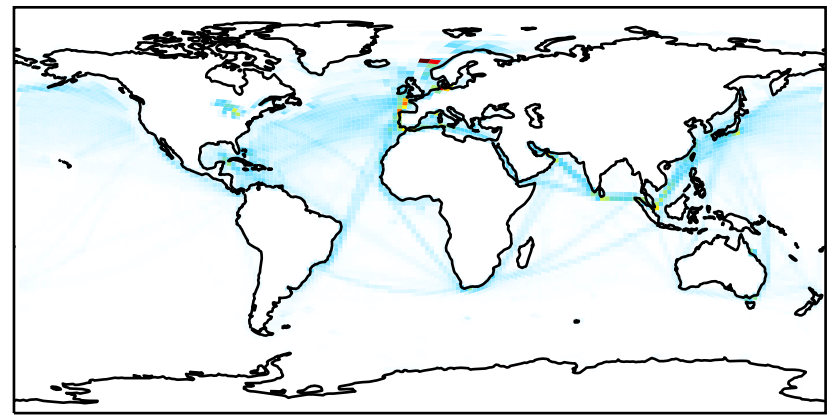
EmisNH3_Ship

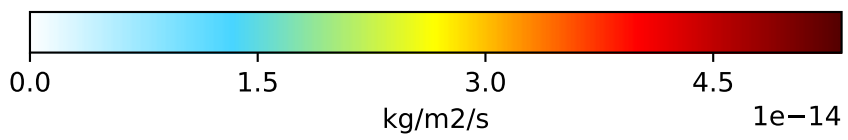
GCHP_13.2.0 (Ref)
c48



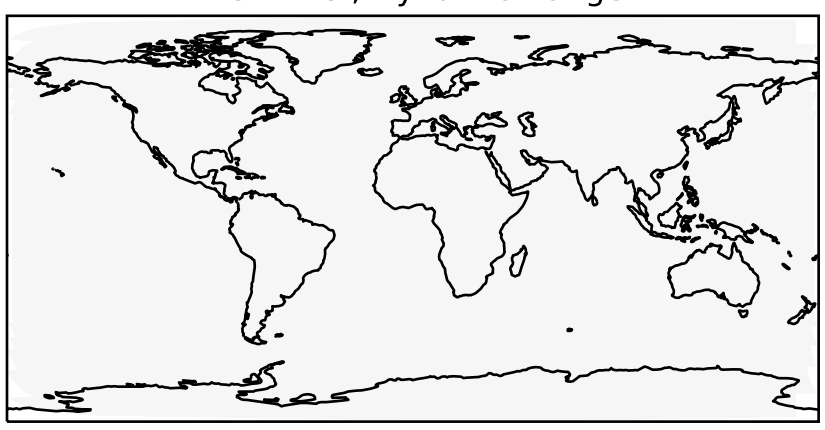


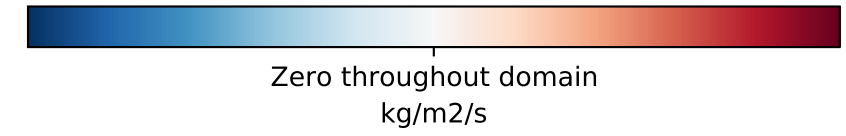
GCHP_13.3.0-rc.1 (Dev)
c48



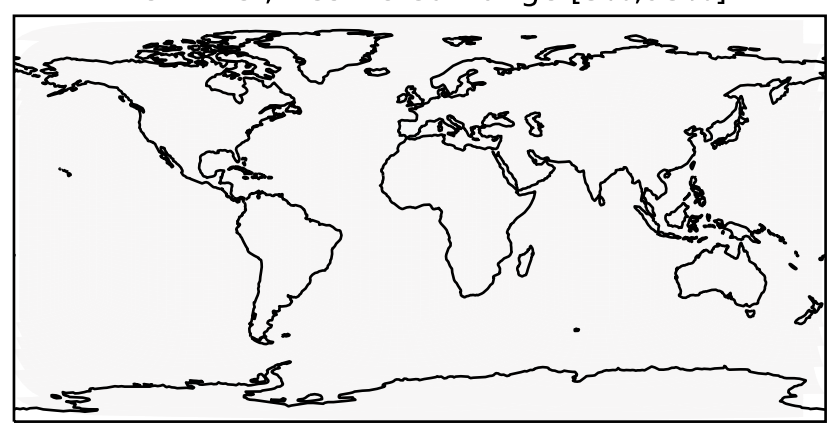


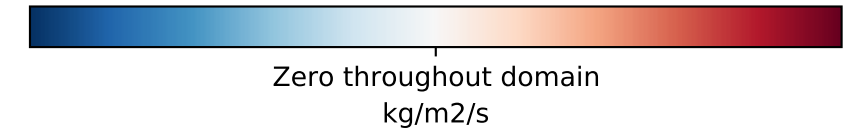
Difference
Dev - Ref, Dynamic Range



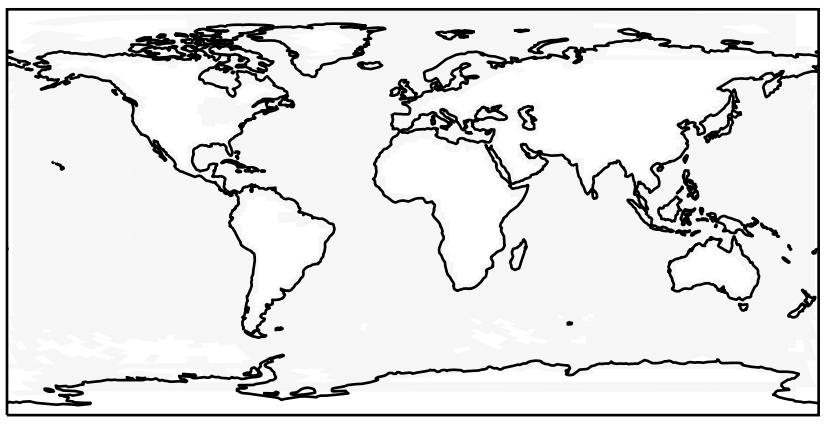


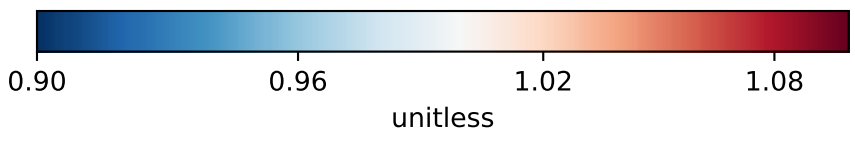
Difference
Dev - Ref, Restricted Range [5%,95%]



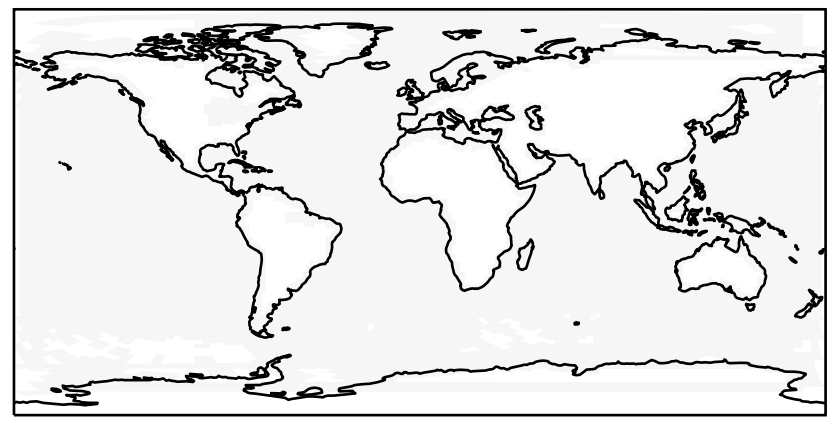


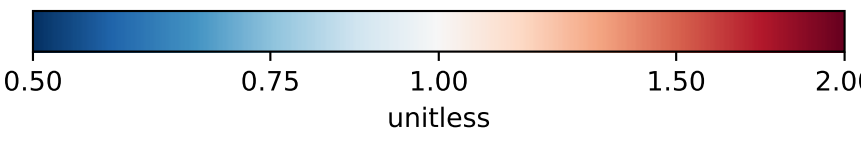
Ratio
Dev/Ref, Dynamic Range





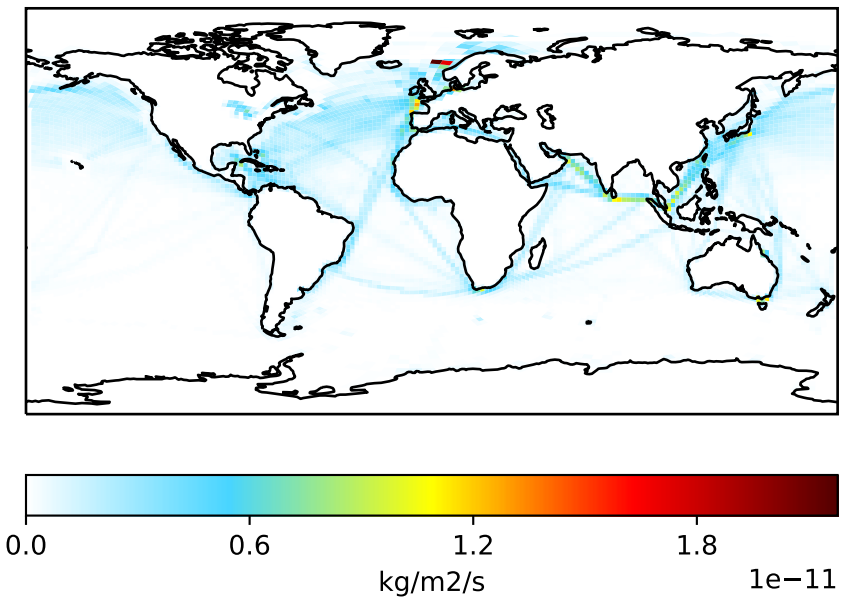
Ratio
Dev/Ref, Fixed Range



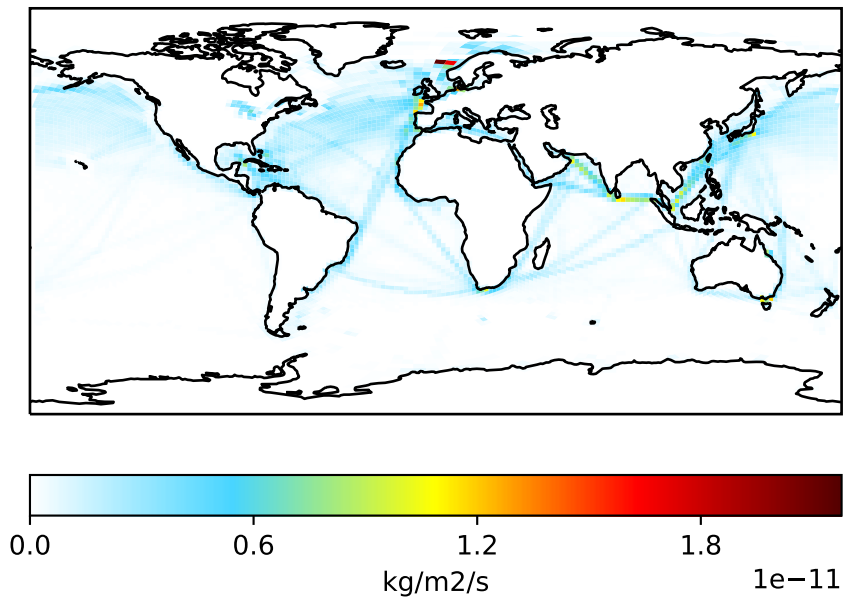


EmisNO2_Ship

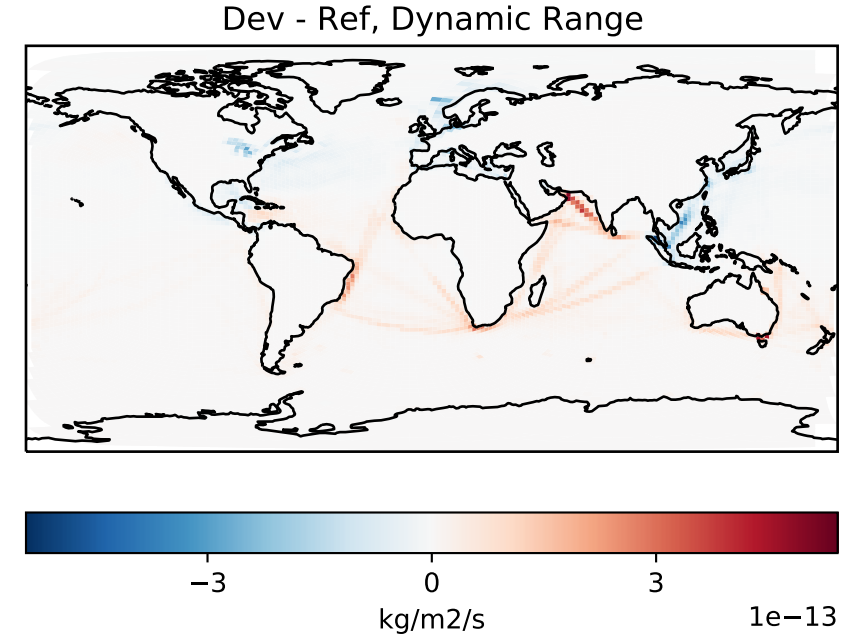
GCHP_13.2.0 (Ref)
c48



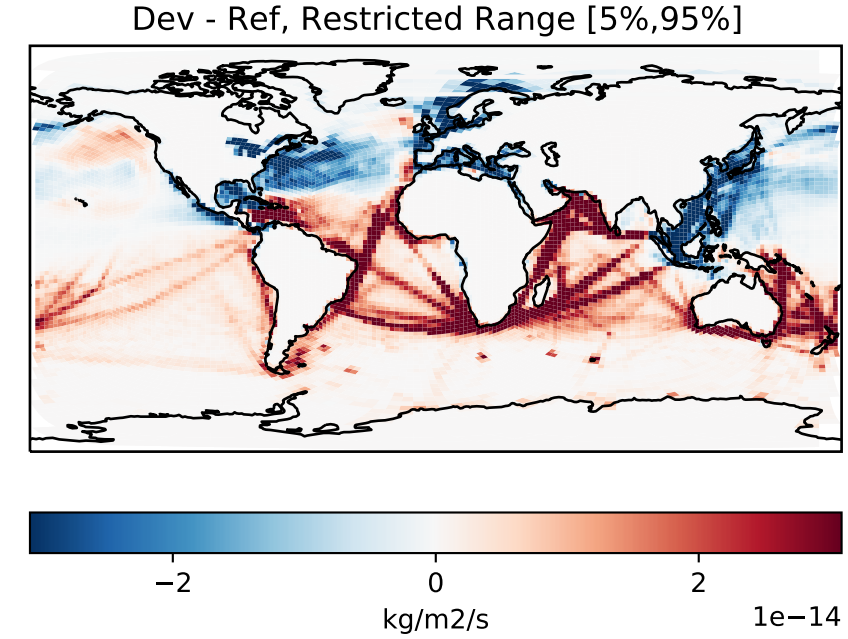
GCHP_13.3.0-rc.1 (Dev)
c48



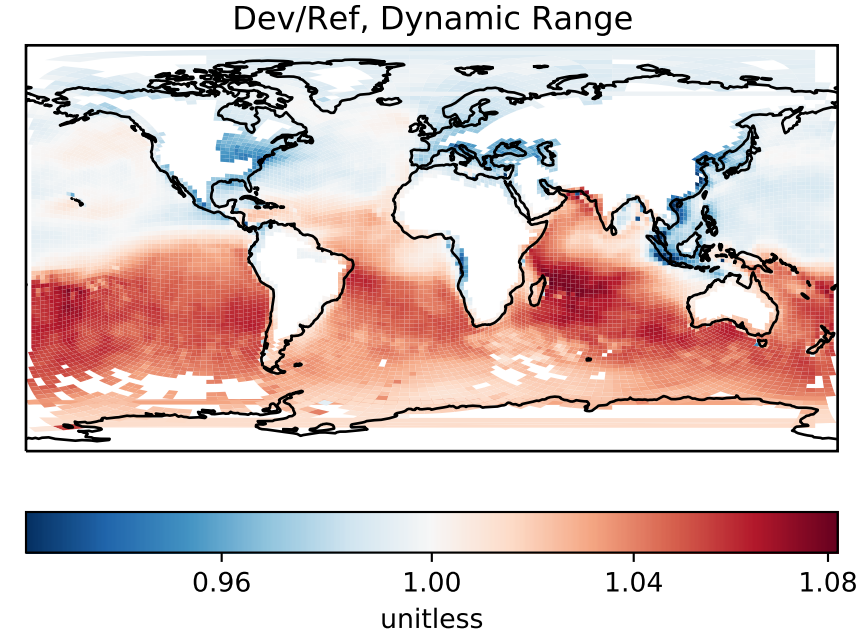
Difference
Dev - Ref, Dynamic Range



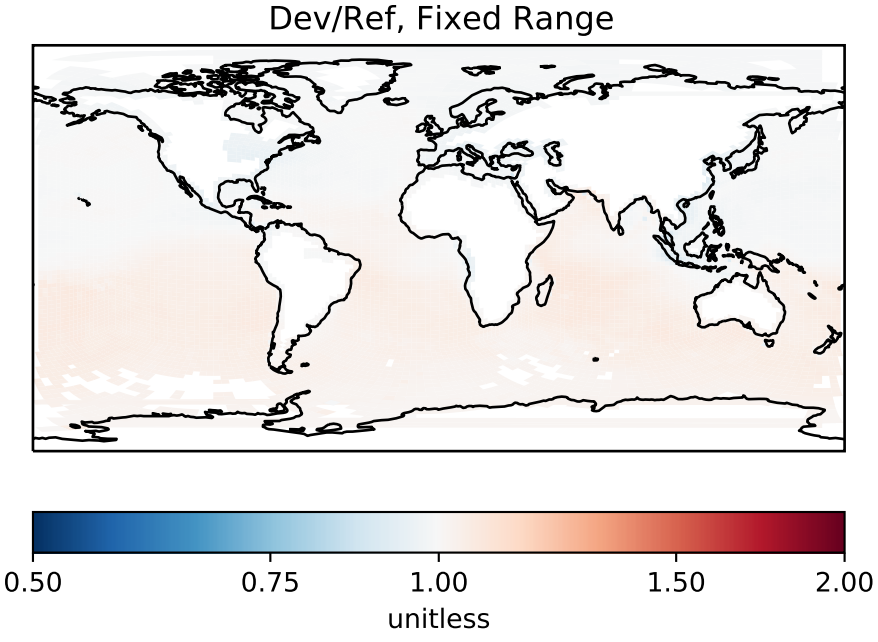
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

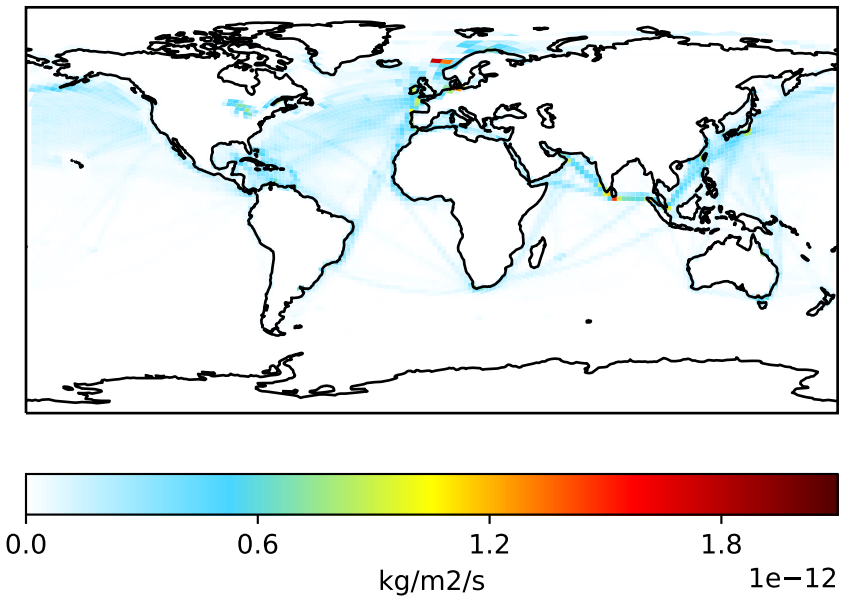


Ratio
Dev/Ref, Fixed Range

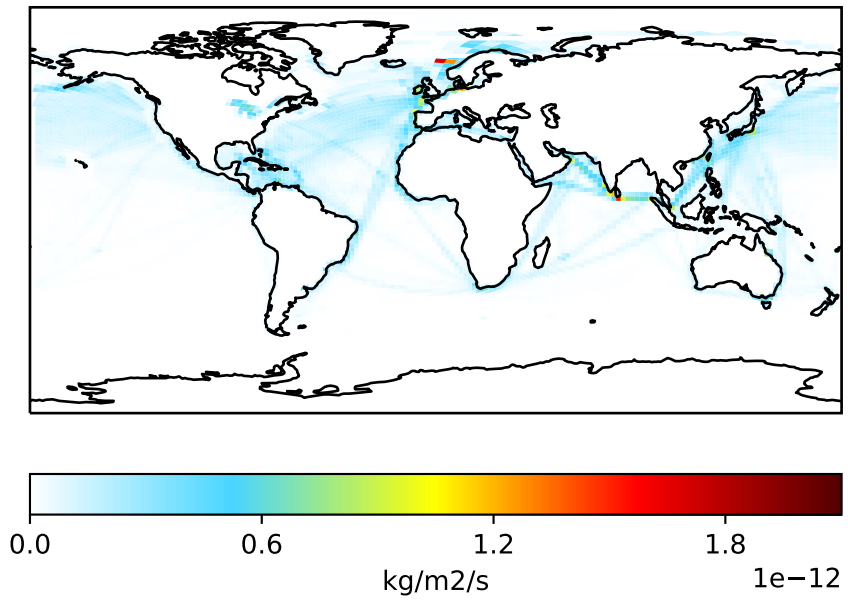


EmisNO_Ship

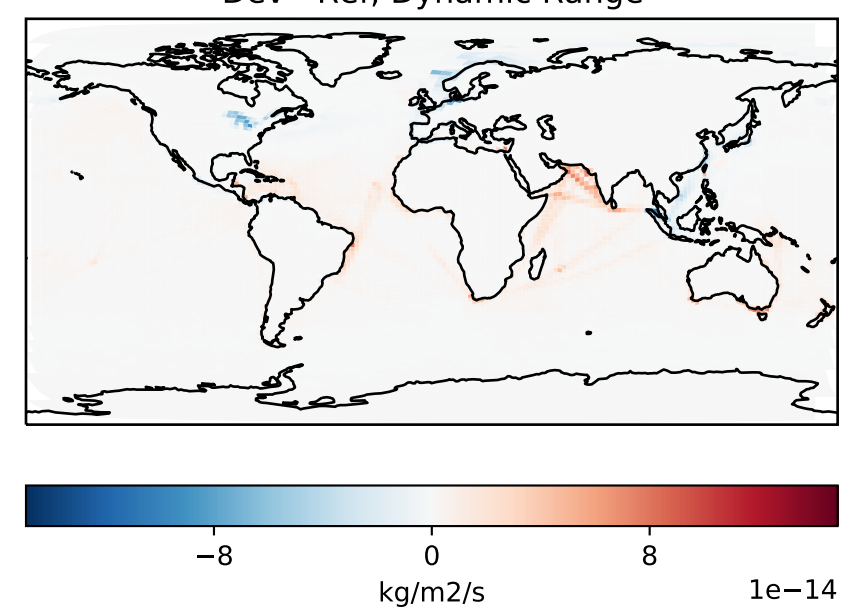
GCHP_13.2.0 (Ref)
c48



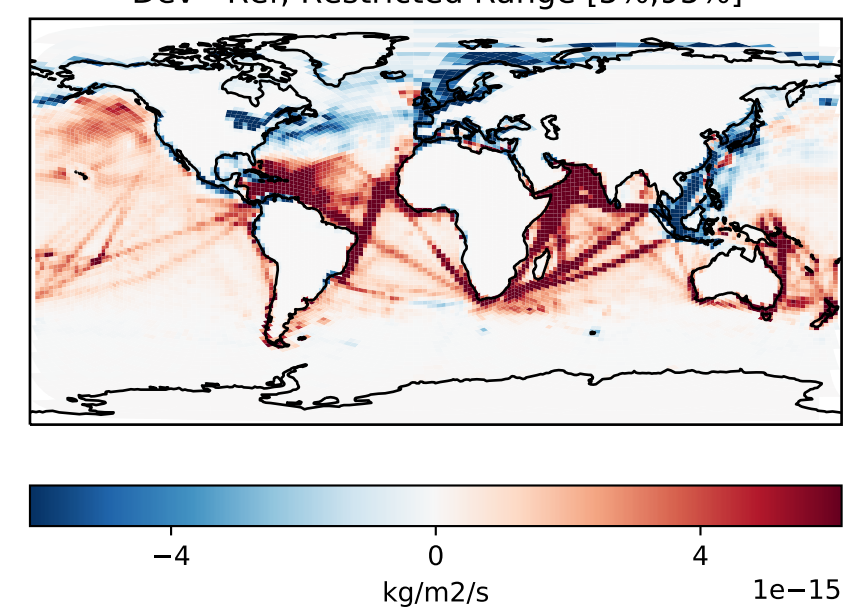
GCHP_13.3.0-rc.1 (Dev)
c48



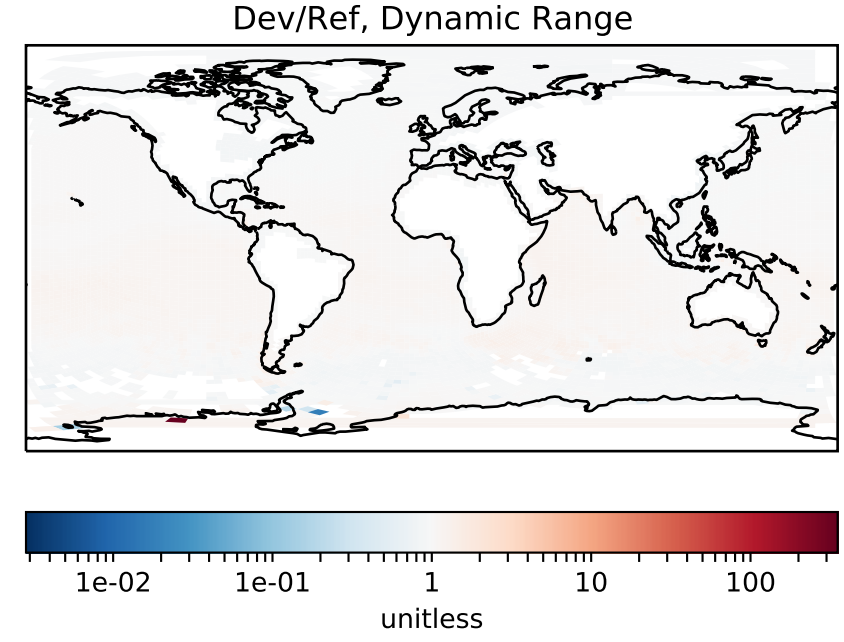
Difference
Dev - Ref, Dynamic Range



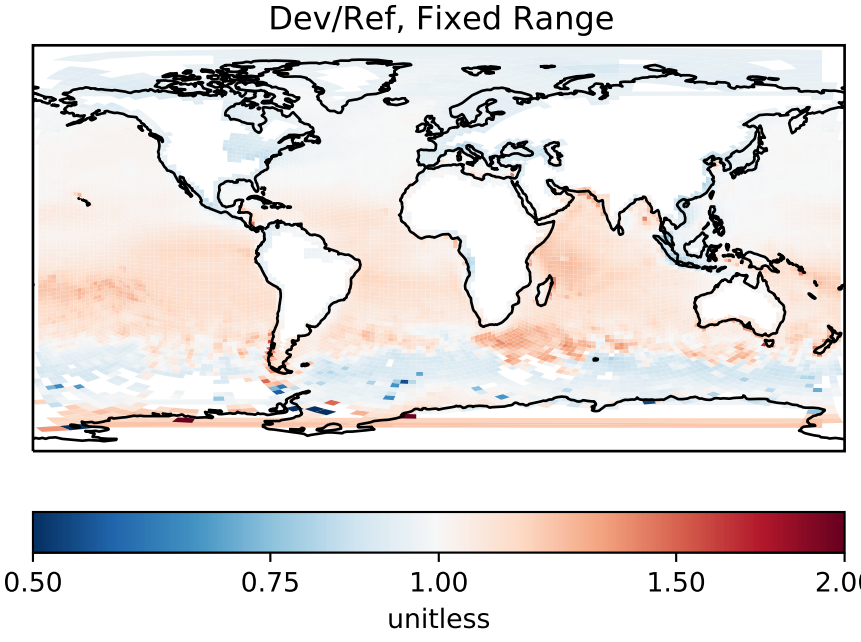
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

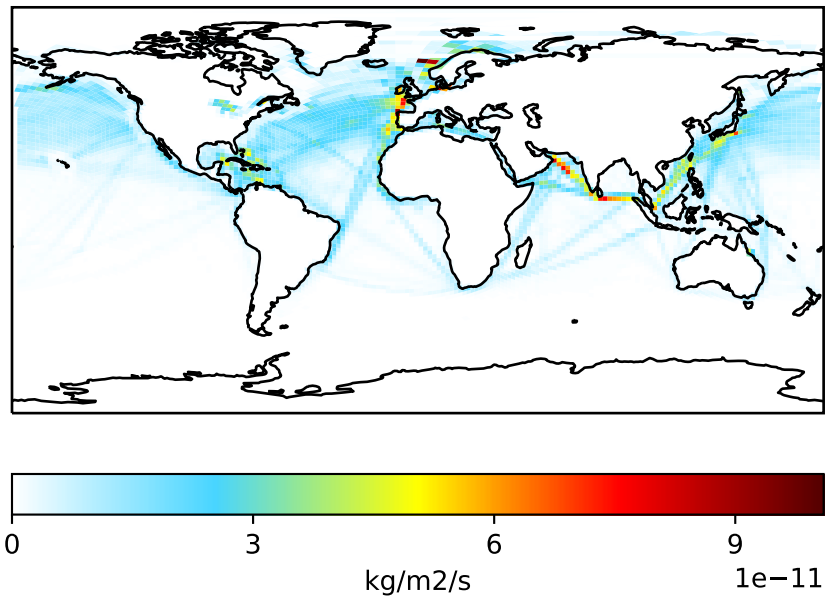


Ratio
Dev/Ref, Fixed Range

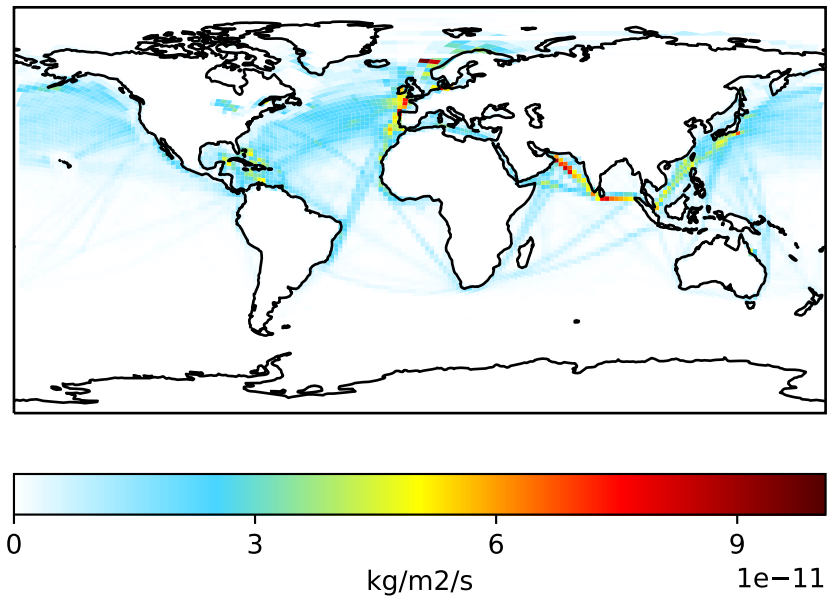


EmisO3_Ship

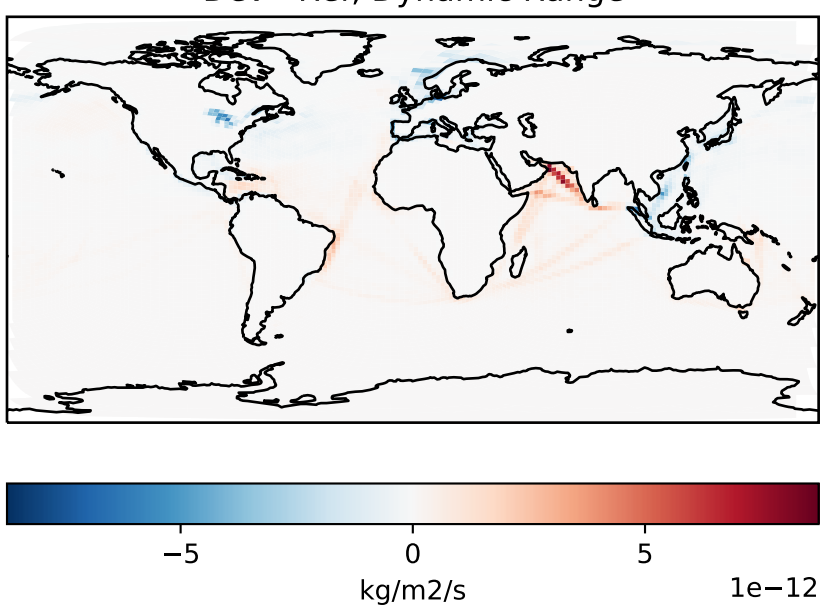
GCHP_13.2.0 (Ref)
c48



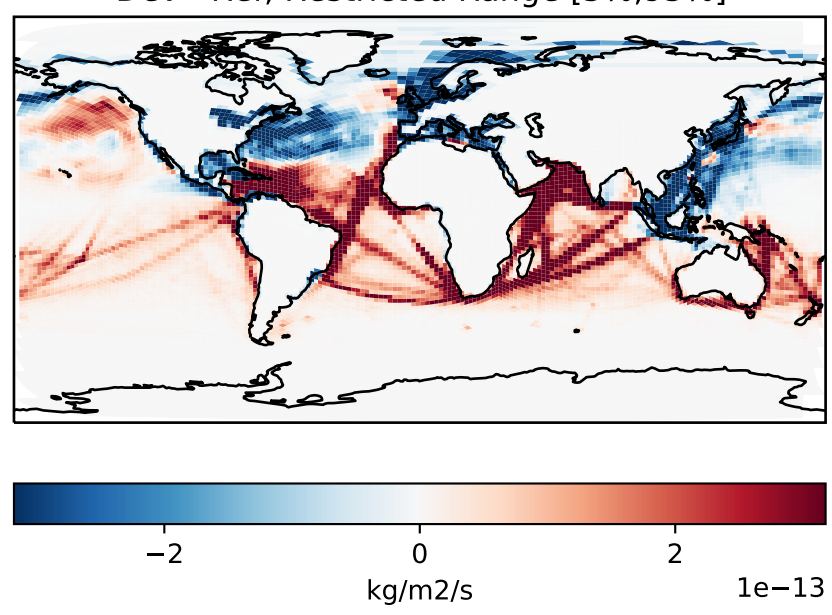
GCHP_13.3.0-rc.1 (Dev)
c48



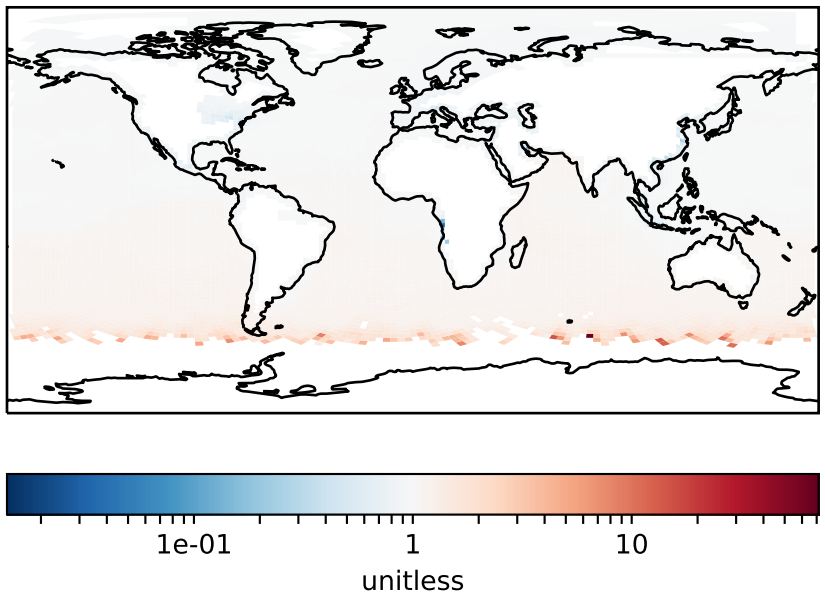
Difference
Dev - Ref, Dynamic Range



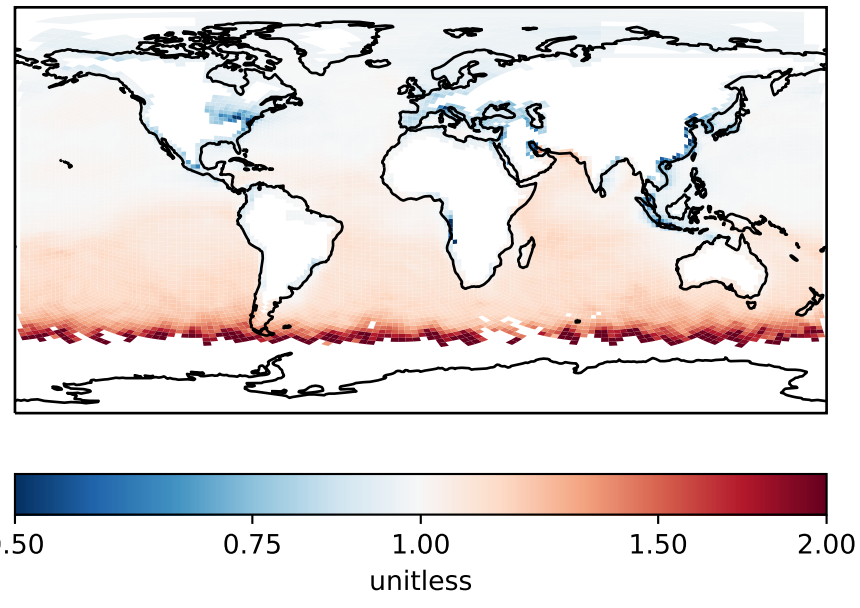
Difference
Dev - Ref, Restricted Range [5%,95%]



Ratio
Dev/Ref, Dynamic Range

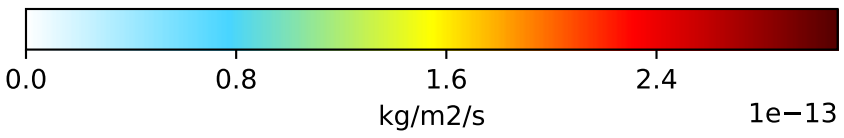


Ratio
Dev/Ref, Fixed Range

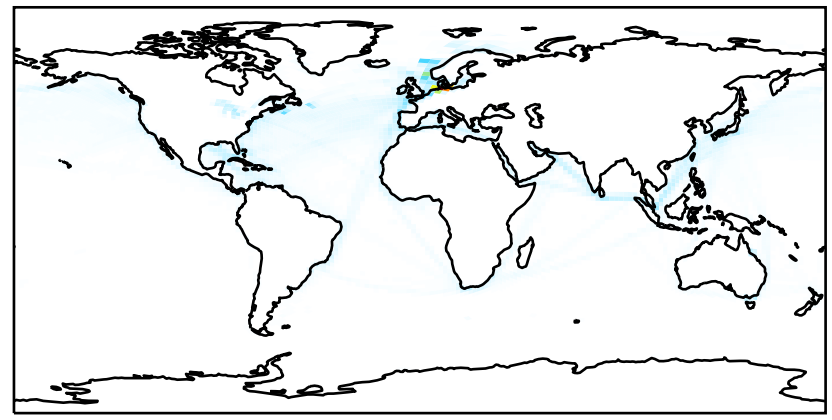


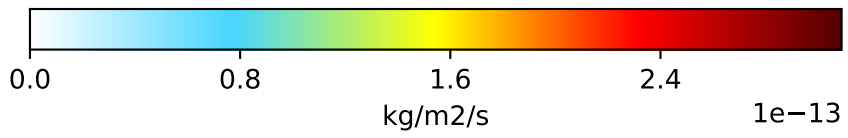
EmisOCPI_Ship

GCHP_13.2.0 (Ref)
c48

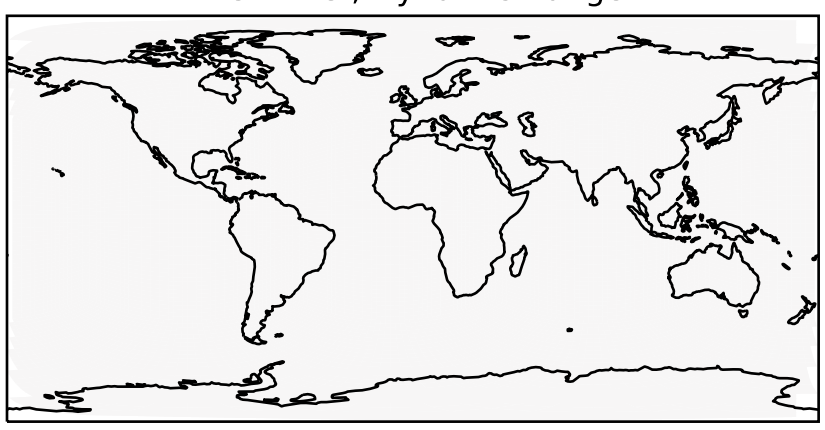


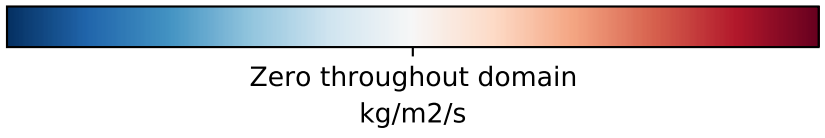
GCHP_13.3.0-rc.1 (Dev)
c48



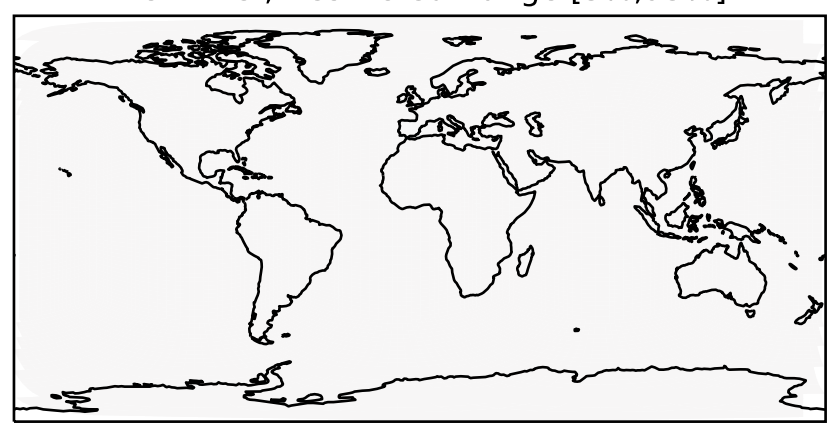


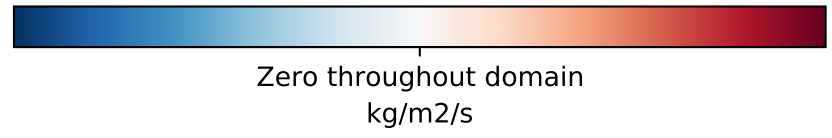
Difference
Dev - Ref, Dynamic Range



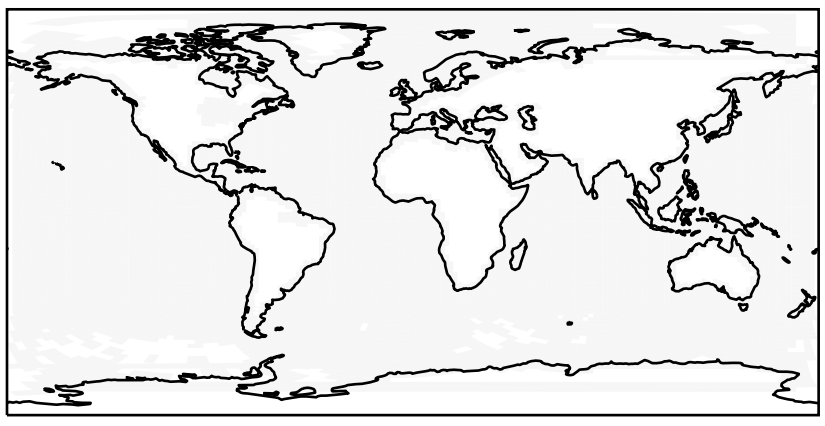


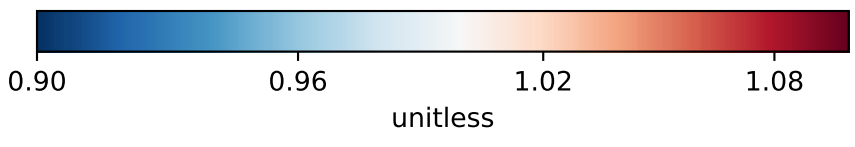
Difference
Dev - Ref, Restricted Range [5%,95%]



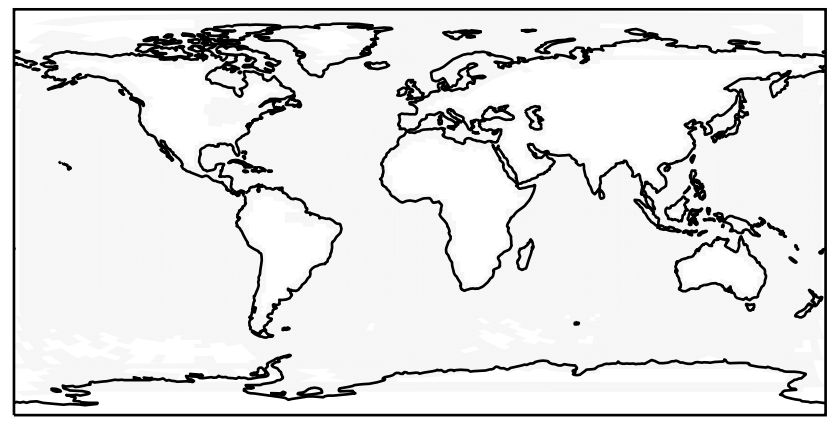


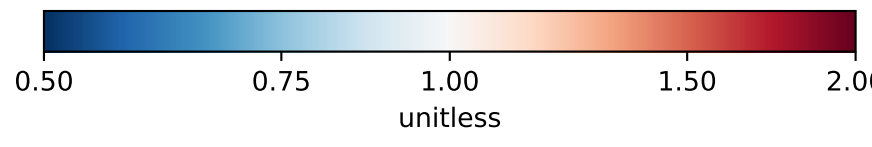
Ratio
Dev/Ref, Dynamic Range





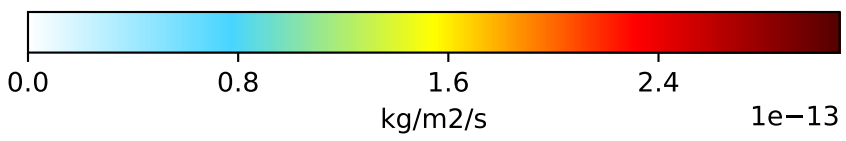
Ratio
Dev/Ref, Fixed Range



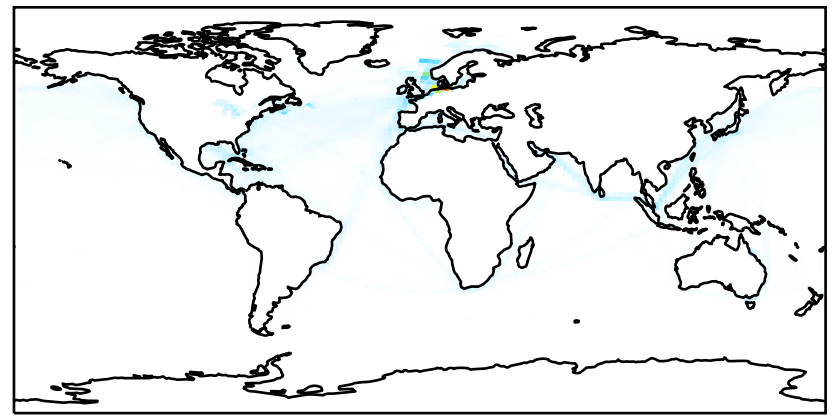


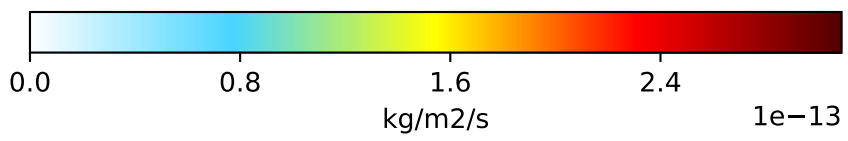
EmisOCPO_Ship

GCHP_13.2.0 (Ref)
c48

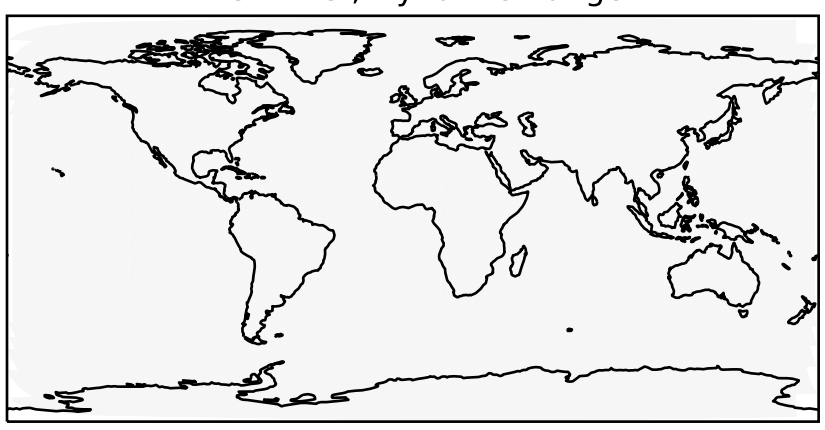


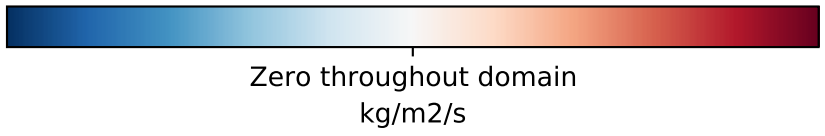
GCHP_13.3.0-rc.1 (Dev)
c48



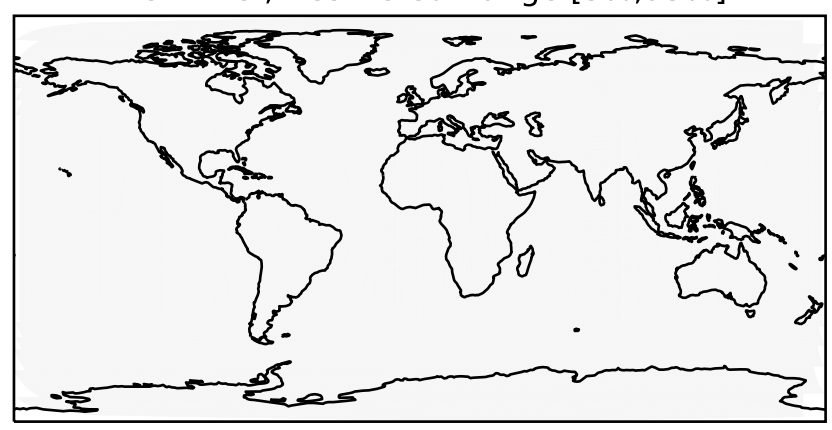


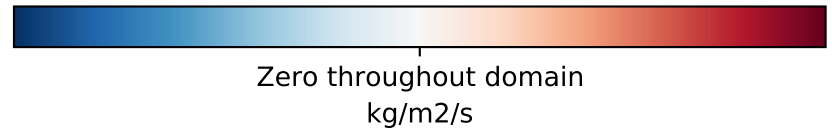
Difference
Dev - Ref, Dynamic Range



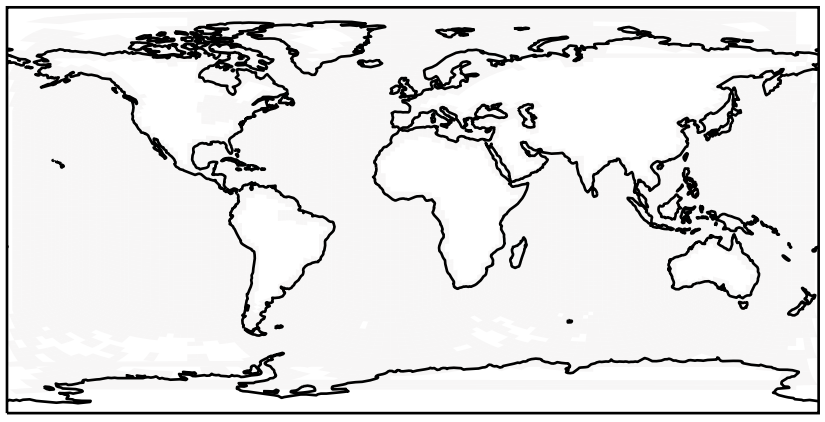


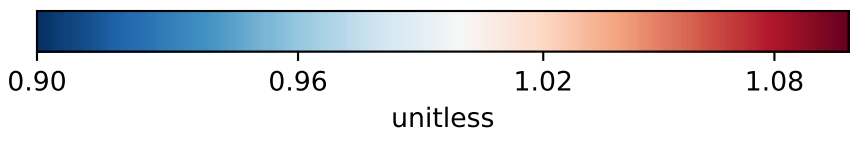
Difference
Dev - Ref, Restricted Range [5%,95%]



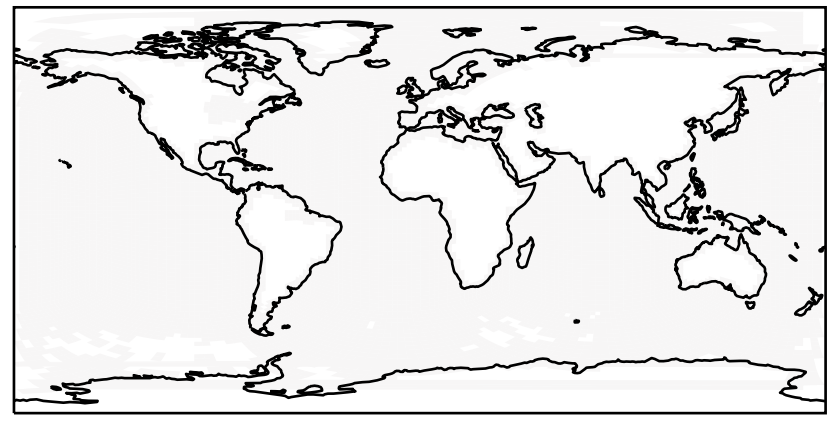


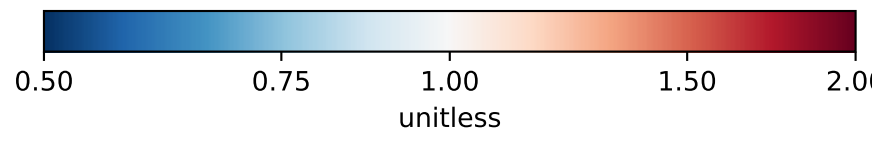
Ratio
Dev/Ref, Dynamic Range





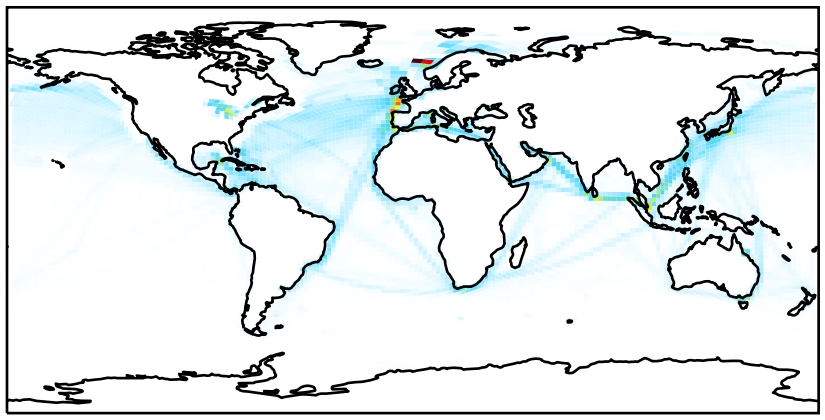
Ratio
Dev/Ref, Fixed Range

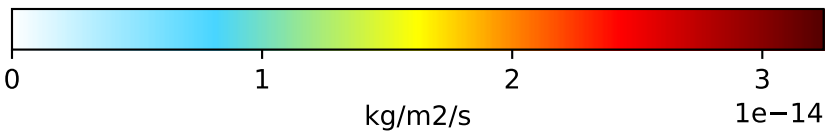




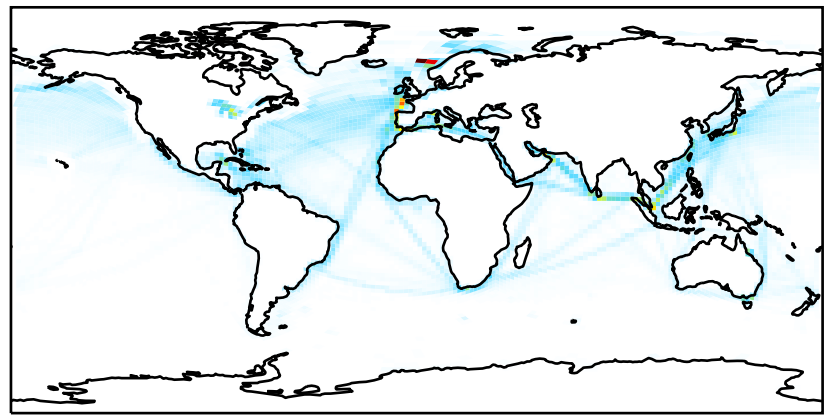
EmispFe_Ship

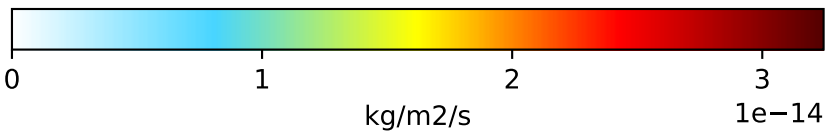
GCHP_13.2.0 (Ref)
c48



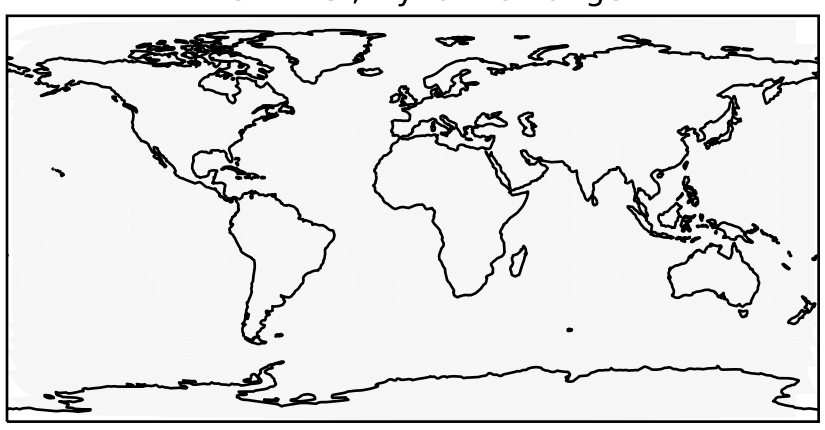


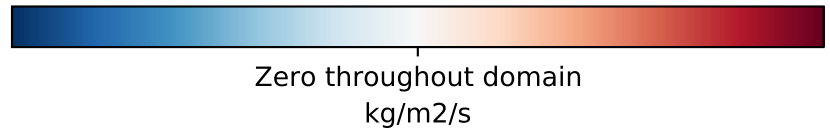
GCHP_13.3.0-rc.1 (Dev)
c48



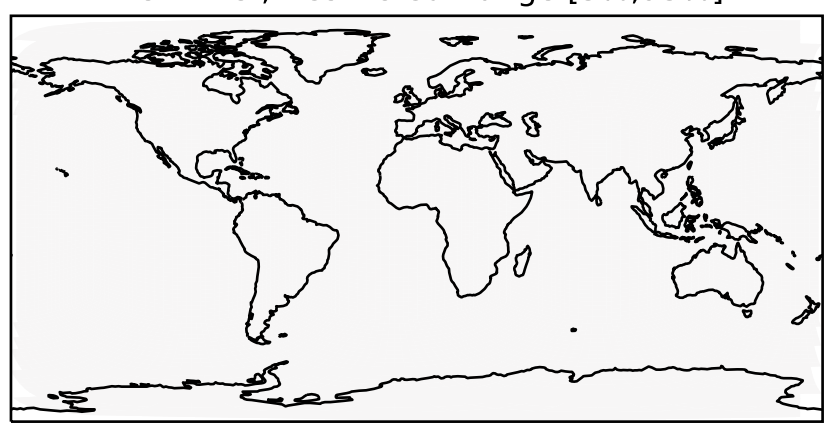


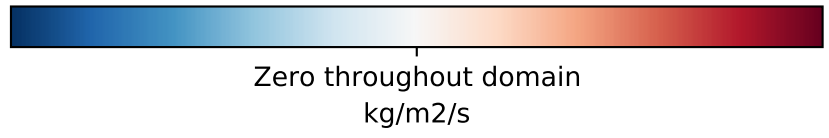
Difference
Dev - Ref, Dynamic Range



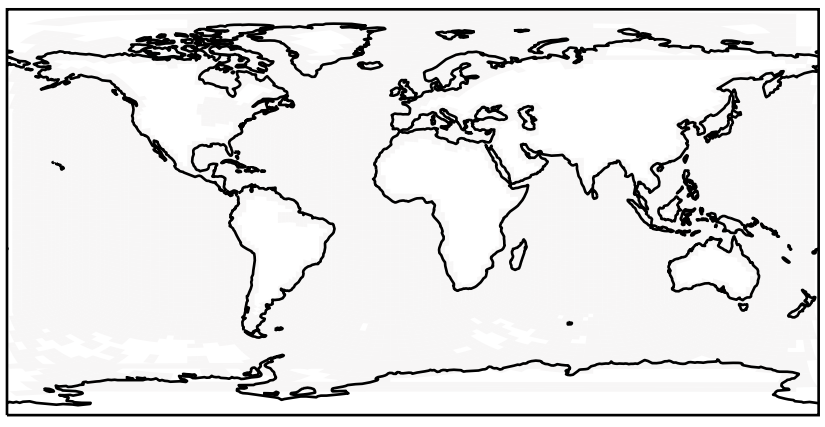


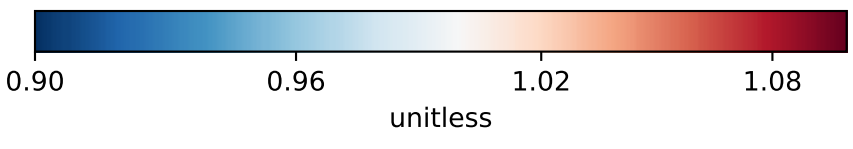
Difference
Dev - Ref, Restricted Range [5%,95%]



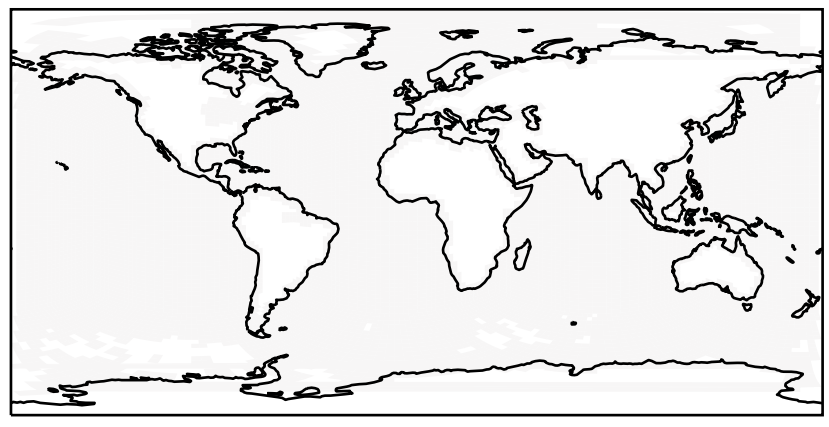


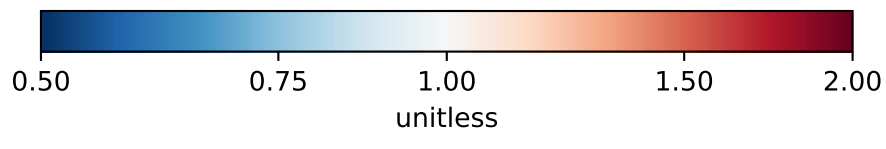
Ratio
Dev/Ref, Dynamic Range





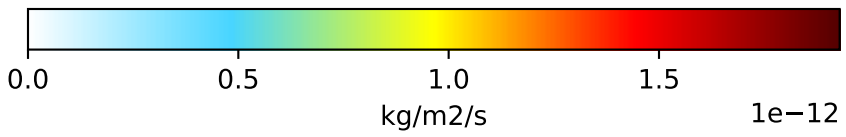
Ratio
Dev/Ref, Fixed Range



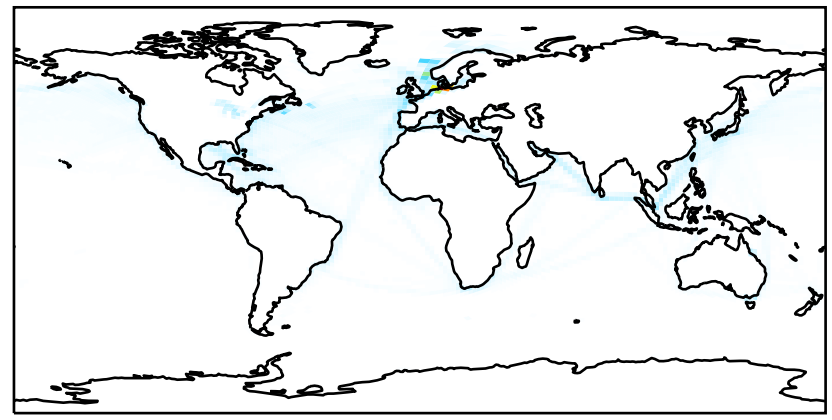


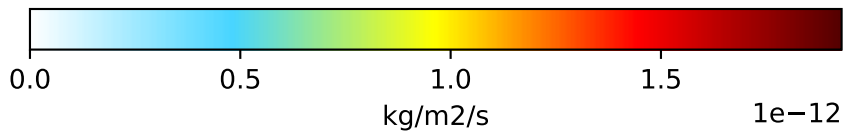
EmisPRPE_Ship

GCHP_13.2.0 (Ref)
c48

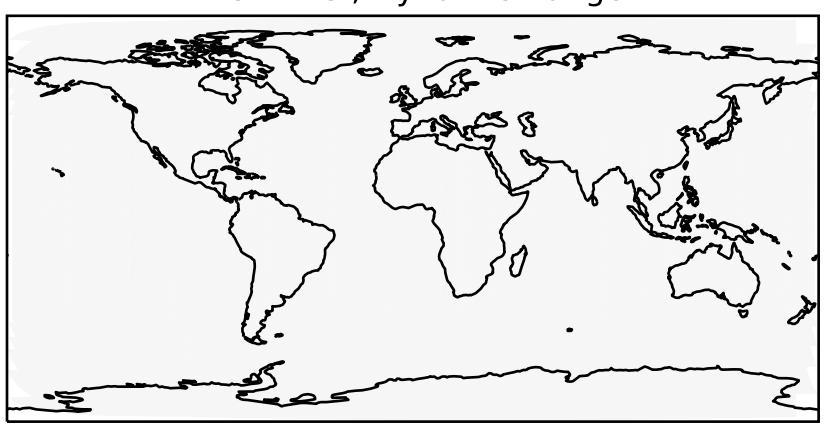


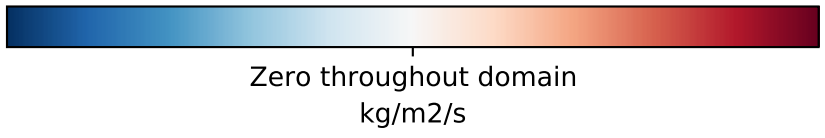
GCHP_13.3.0-rc.1 (Dev)
c48



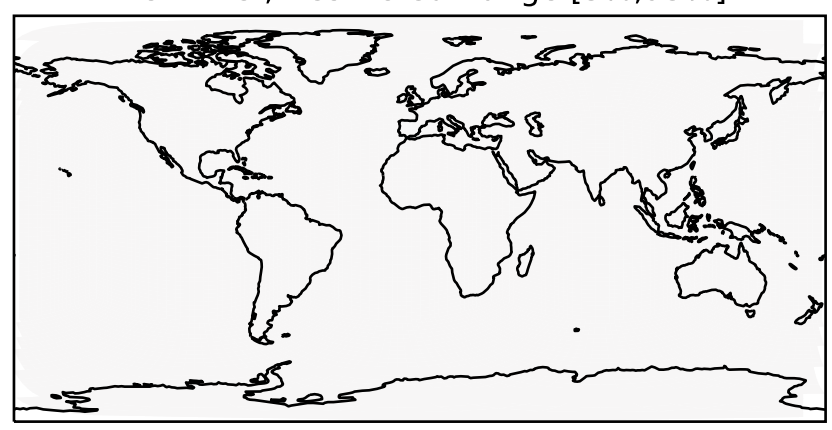


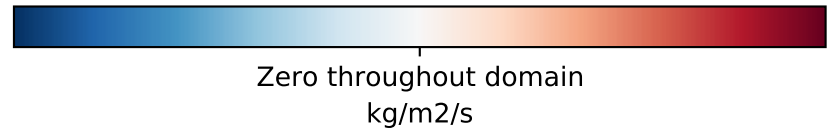
Difference
Dev - Ref, Dynamic Range



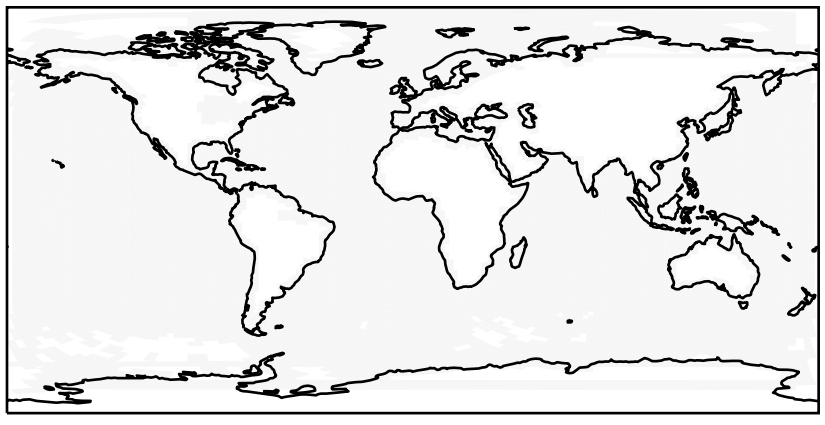


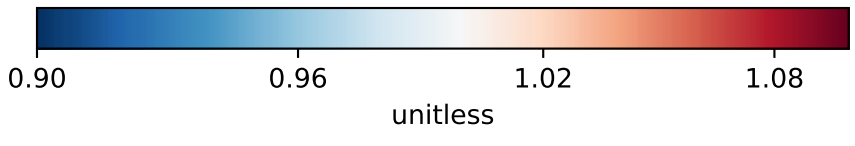
Difference
Dev - Ref, Restricted Range [5%,95%]



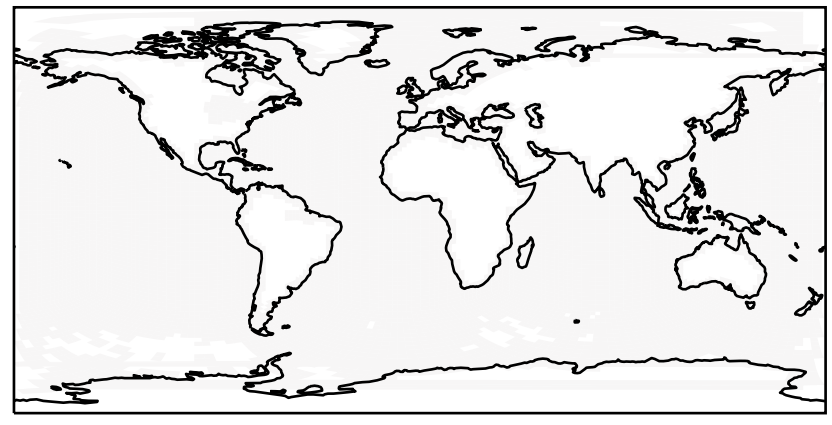


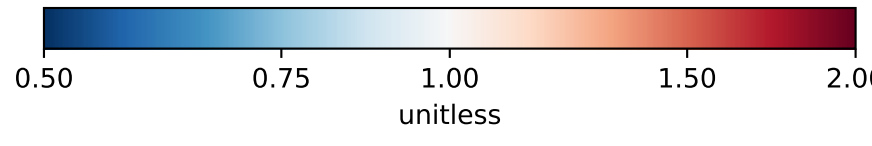
Ratio
Dev/Ref, Dynamic Range





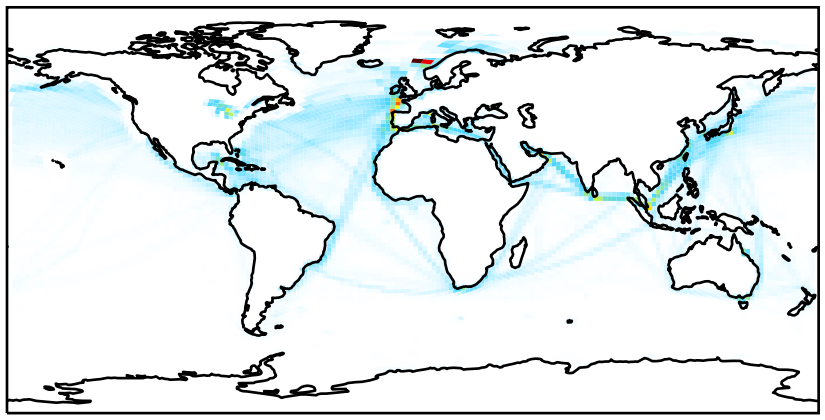
Ratio
Dev/Ref, Fixed Range

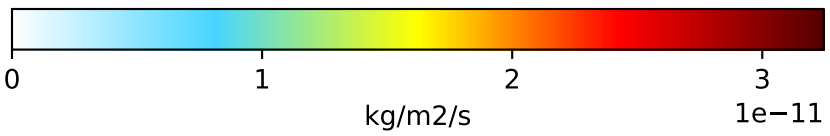




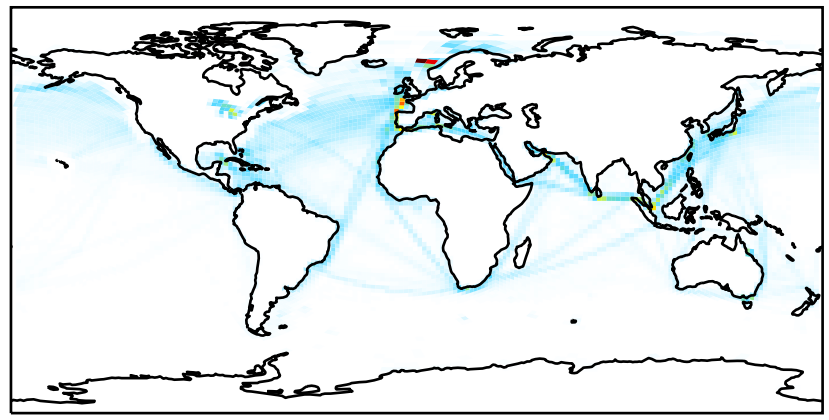
EmisSO2_Ship

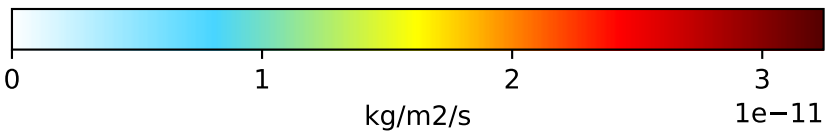
GCHP_13.2.0 (Ref)
c48



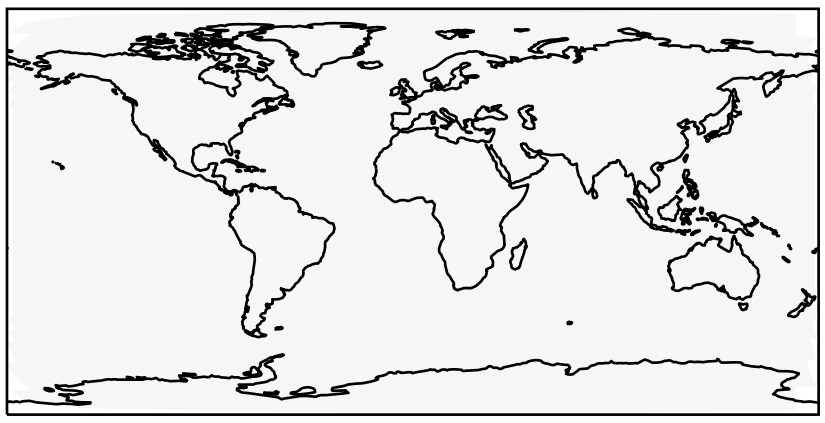


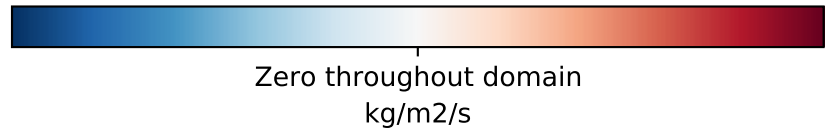
GCHP_13.3.0-rc.1 (Dev)
c48



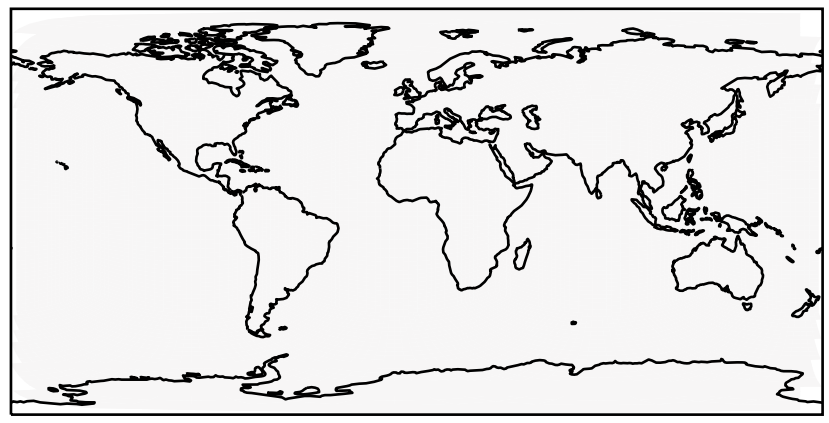


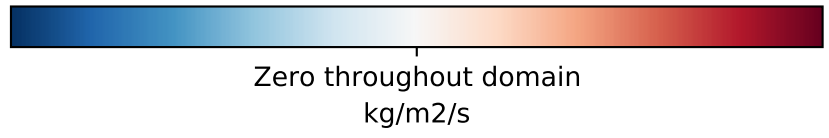
Difference
Dev - Ref, Dynamic Range



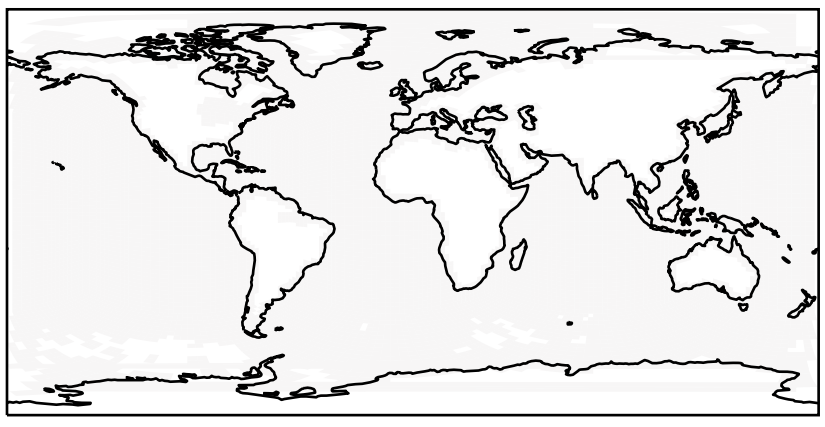


Difference
Dev - Ref, Restricted Range [5%,95%]

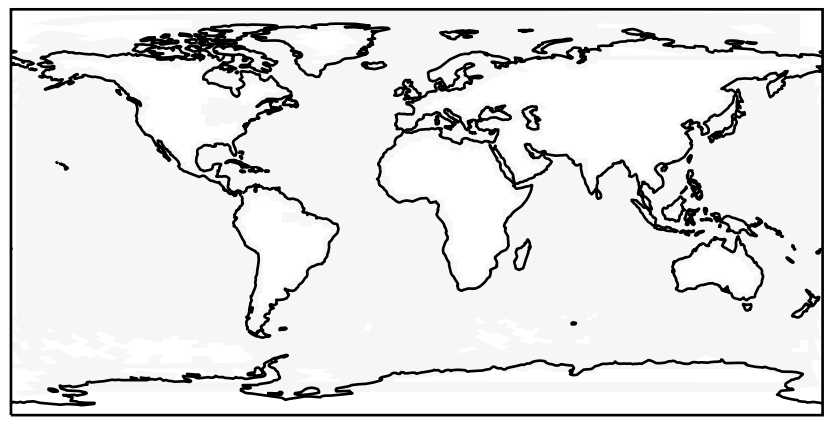


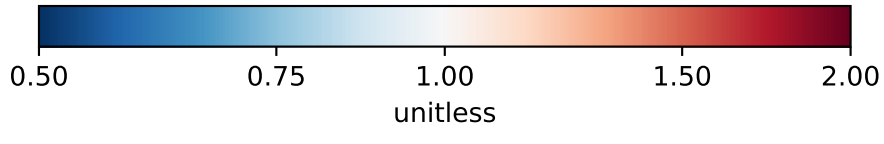


Ratio
Dev/Ref, Dynamic Range



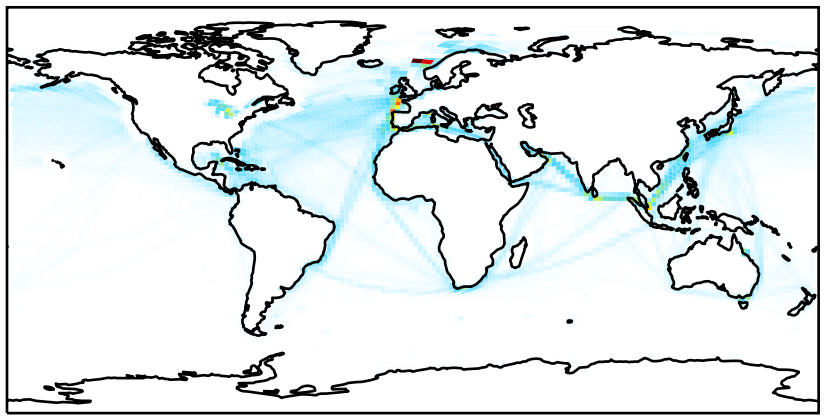
Ratio
Dev/Ref, Fixed Range

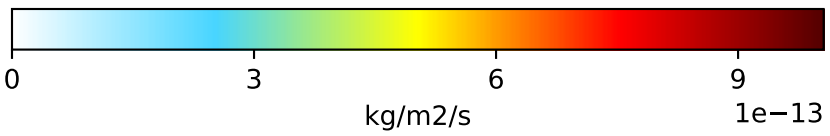




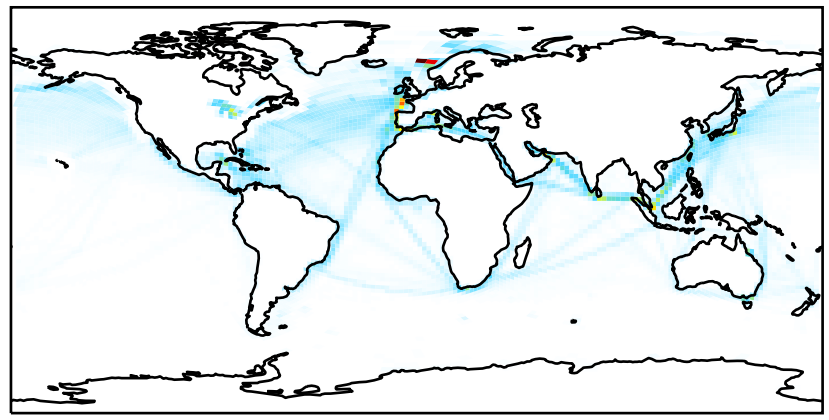
EmisSO4_Ship

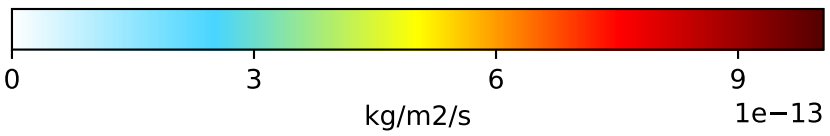
GCHP_13.2.0 (Ref)
c48



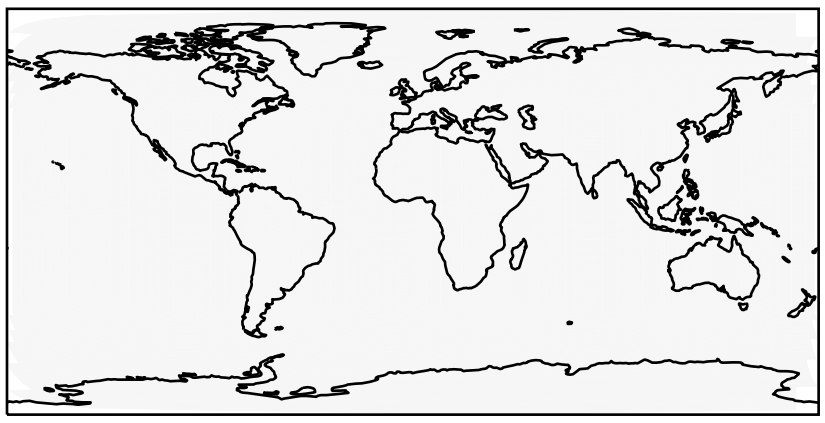


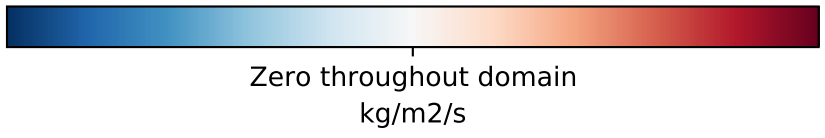
GCHP_13.3.0-rc.1 (Dev)
c48



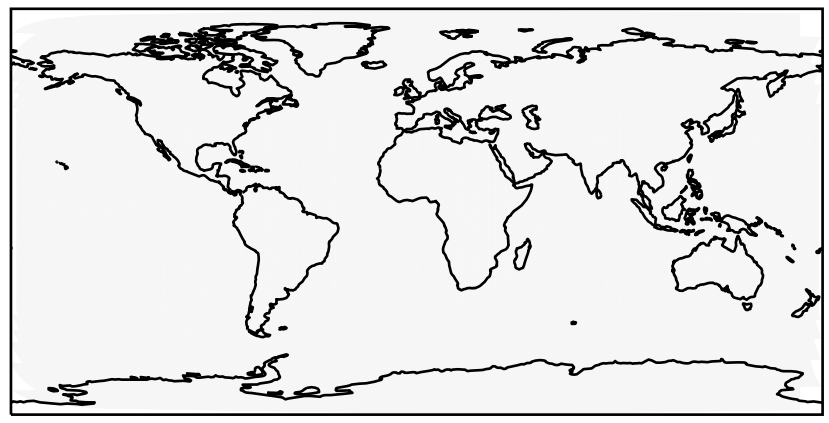


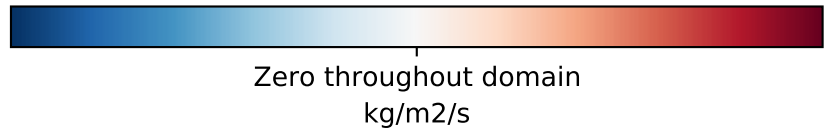
Difference
Dev - Ref, Dynamic Range



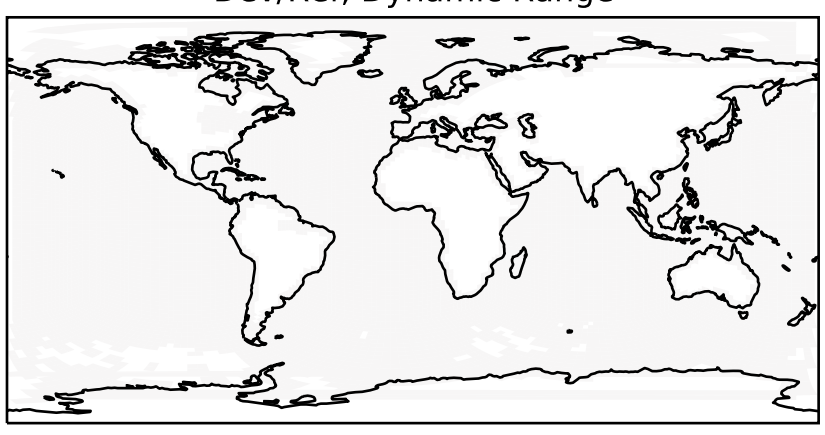


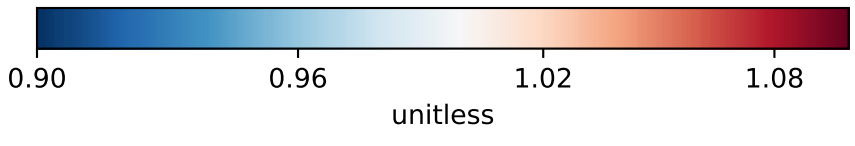
Difference
Dev - Ref, Restricted Range [5%,95%]



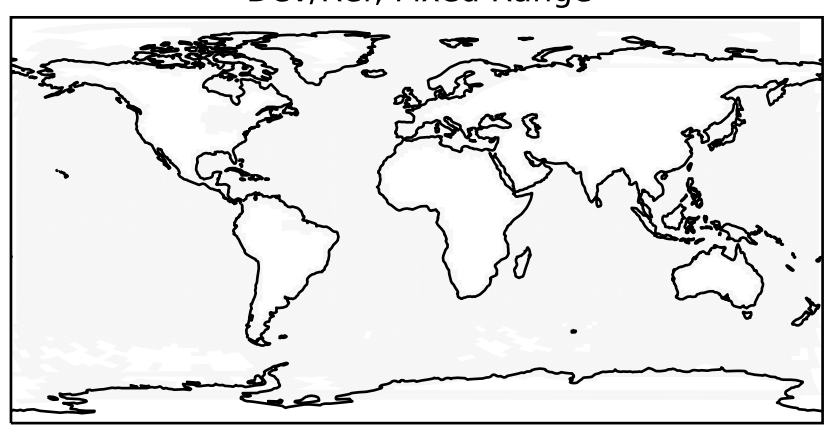


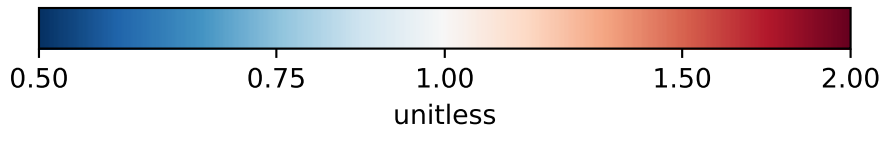
Ratio
Dev/Ref, Dynamic Range





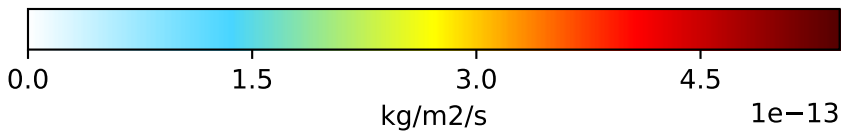
Ratio
Dev/Ref, Fixed Range



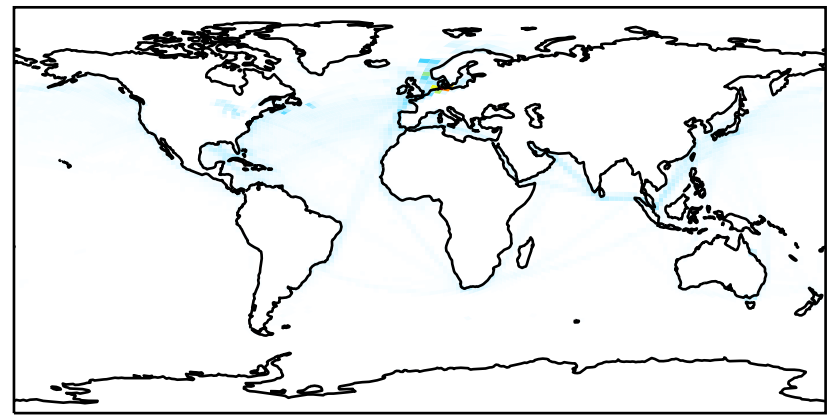


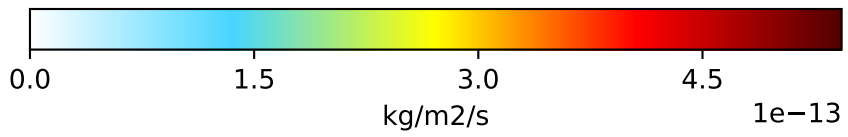
EmisSOAP_Ship

GCHP_13.2.0 (Ref)
c48

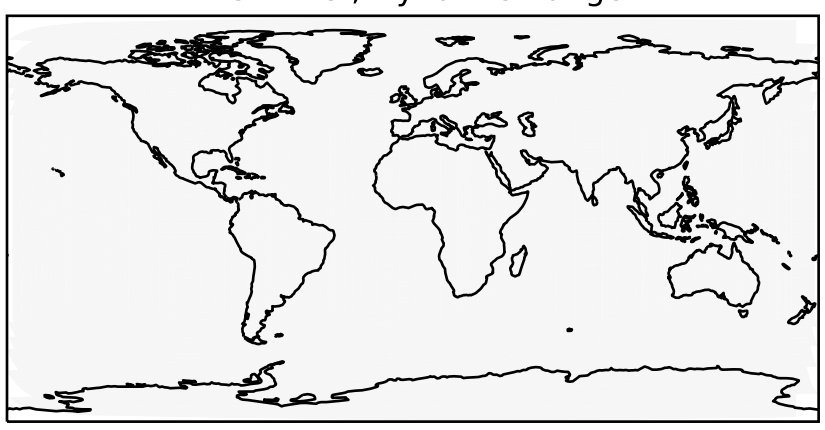


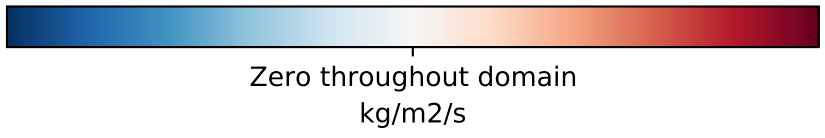
GCHP_13.3.0-rc.1 (Dev)
c48



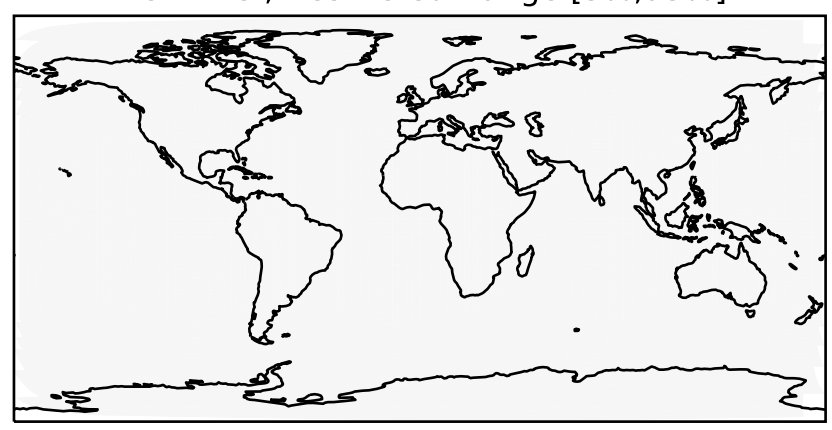


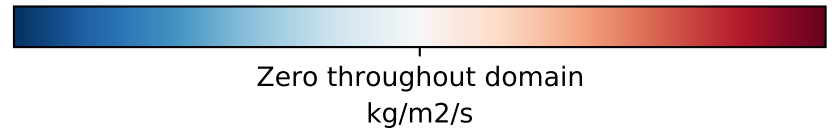
Difference
Dev - Ref, Dynamic Range



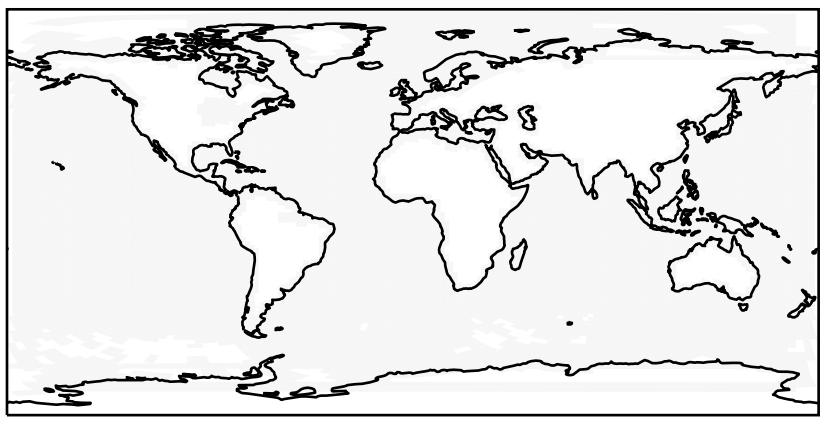


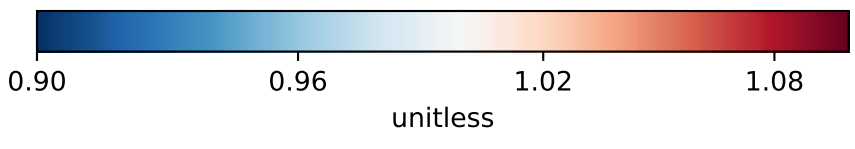
Difference
Dev - Ref, Restricted Range [5%,95%]



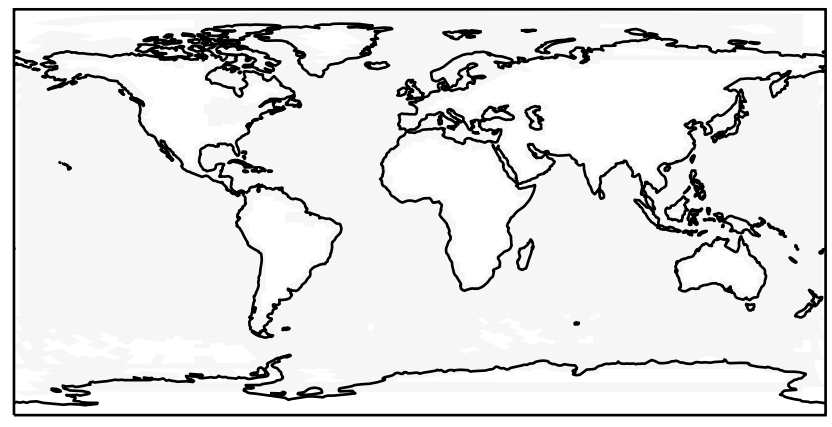


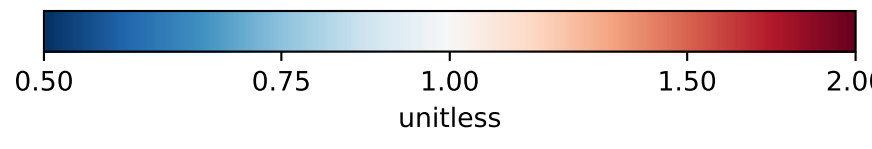
Ratio
Dev/Ref, Dynamic Range





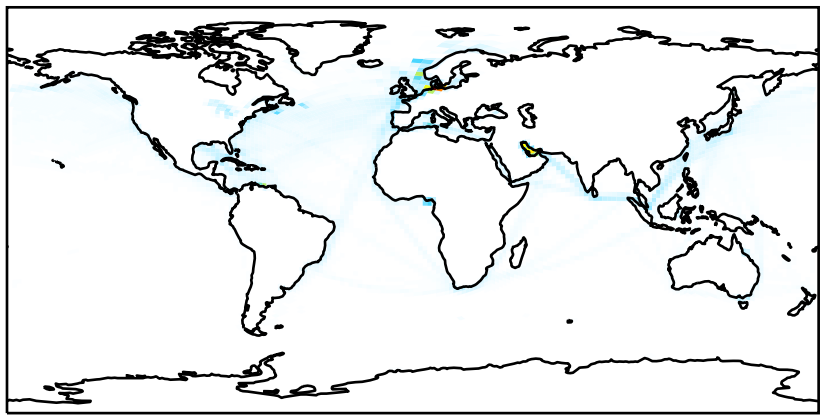
Ratio
Dev/Ref, Fixed Range

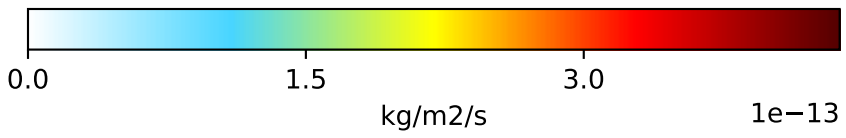




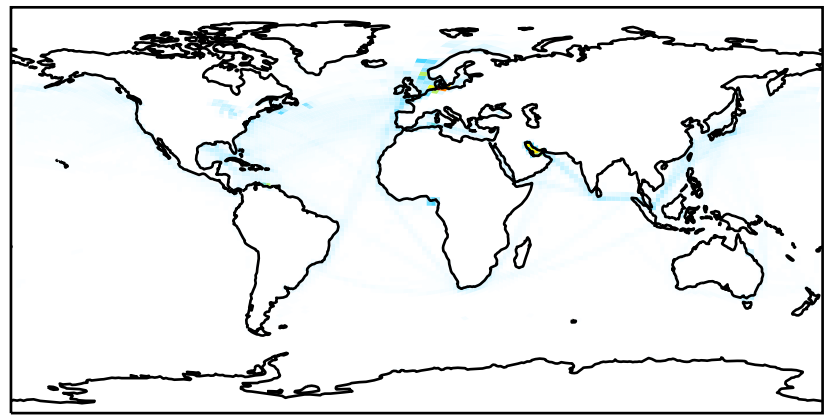
EmisTOLU_Ship

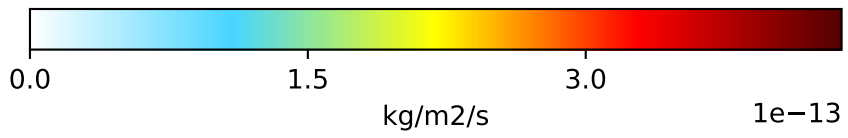
GCHP_13.2.0 (Ref)
c48



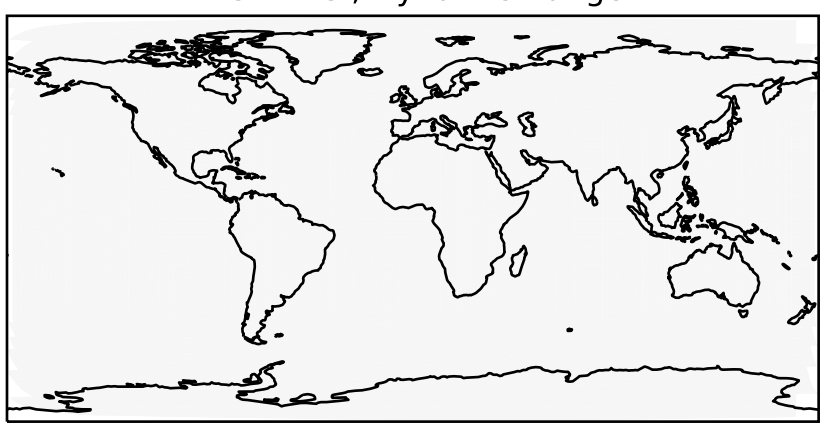


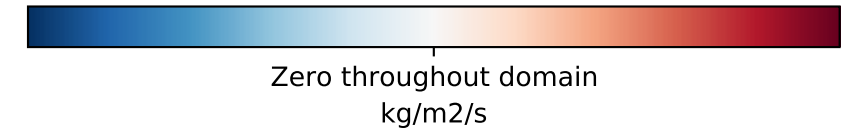
GCHP_13.3.0-rc.1 (Dev)
c48



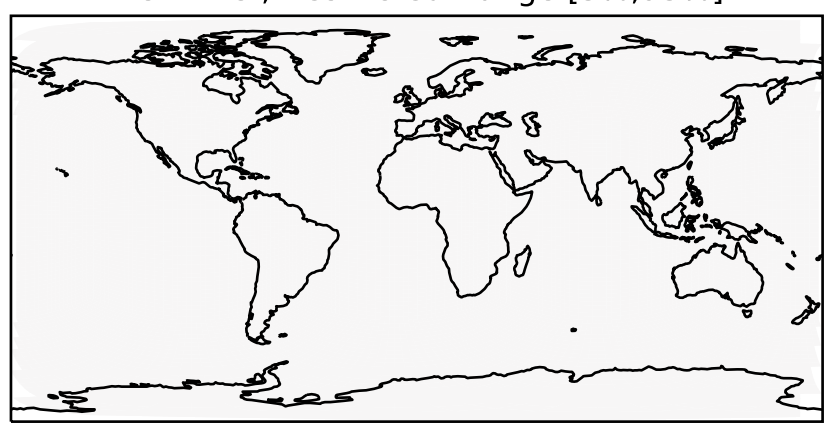


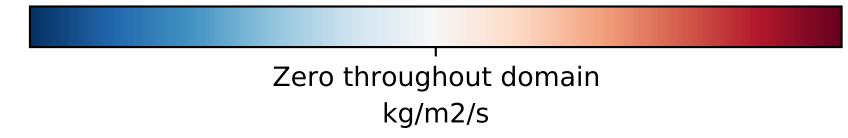
Difference
Dev - Ref, Dynamic Range



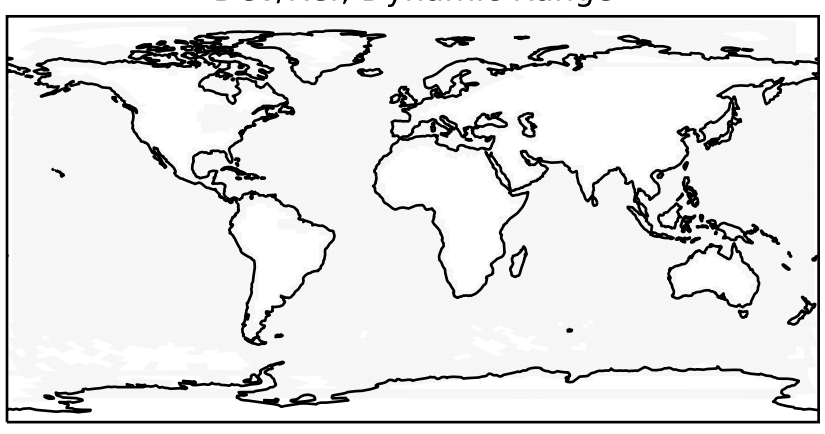


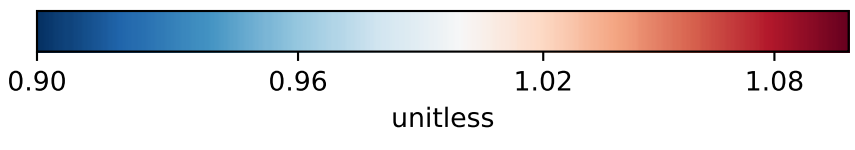
Difference
Dev - Ref, Restricted Range [5%,95%]



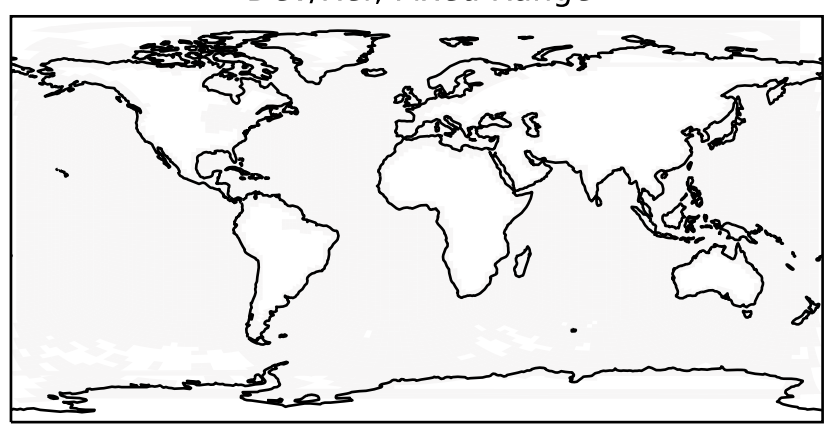


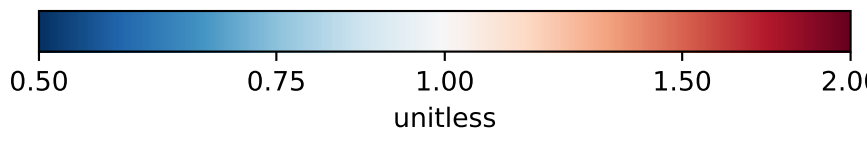
Ratio
Dev/Ref, Dynamic Range





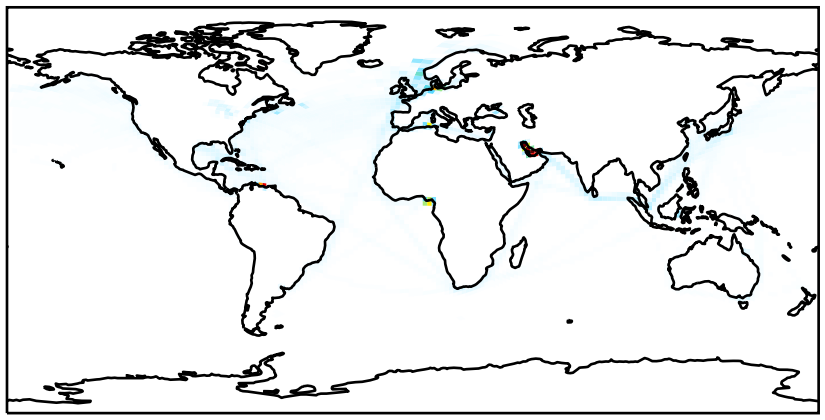
Ratio
Dev/Ref, Fixed Range

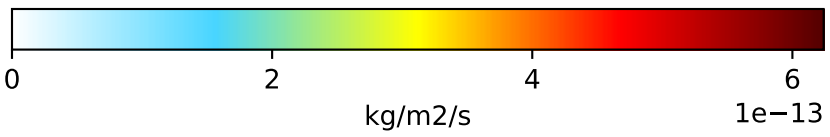




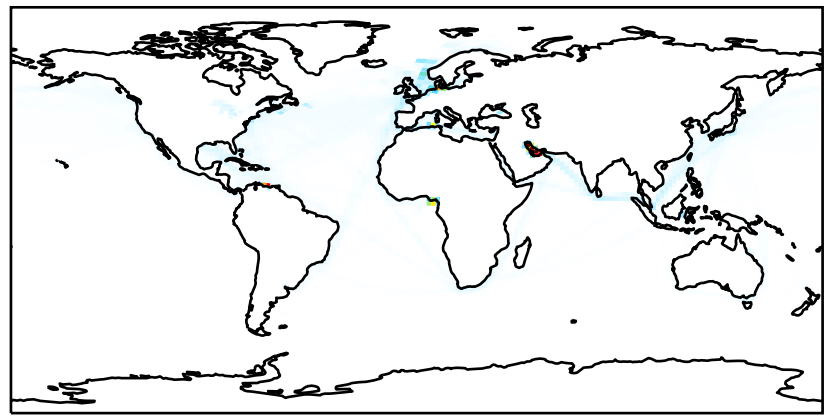
EmisXYLE_Ship

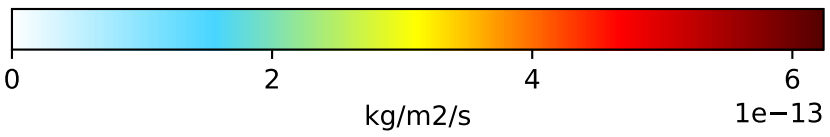
GCHP_13.2.0 (Ref)
c48



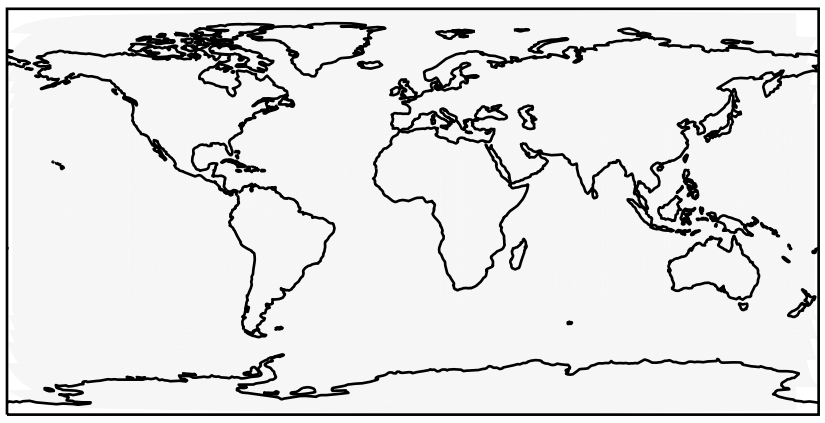


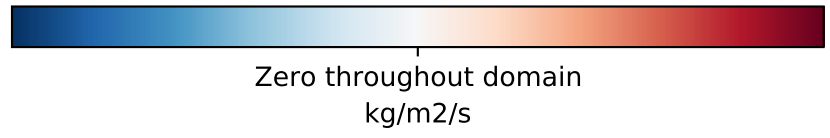
GCHP_13.3.0-rc.1 (Dev)
c48



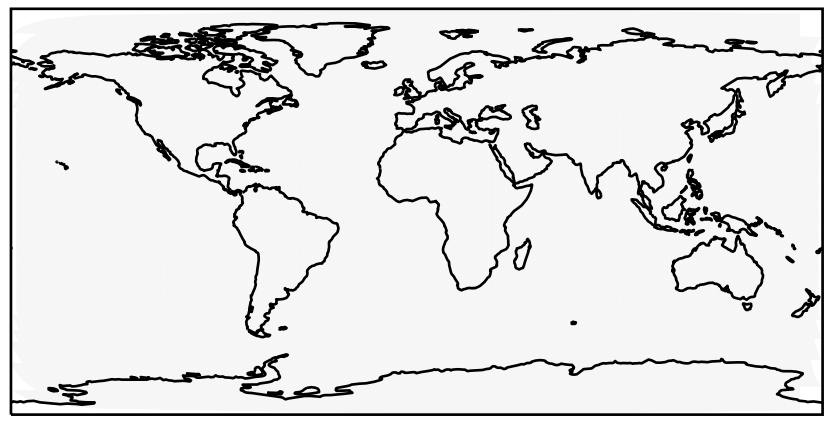


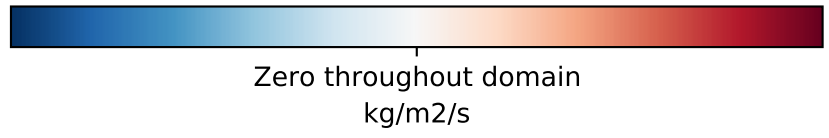
Difference
Dev - Ref, Dynamic Range



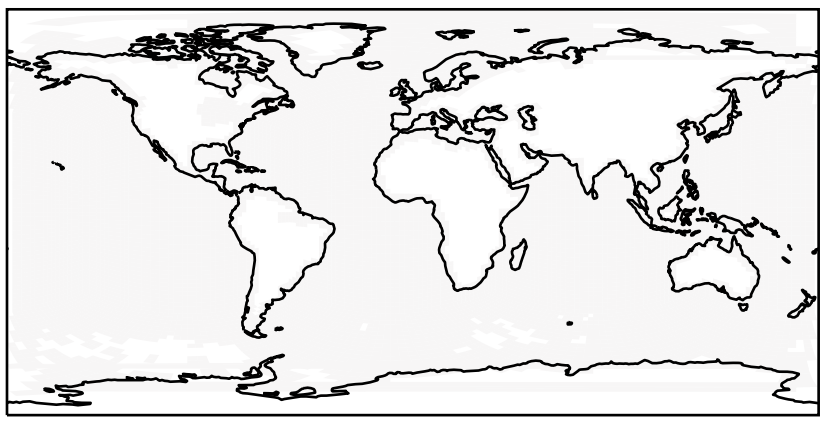


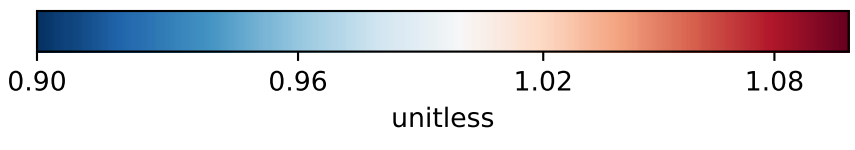
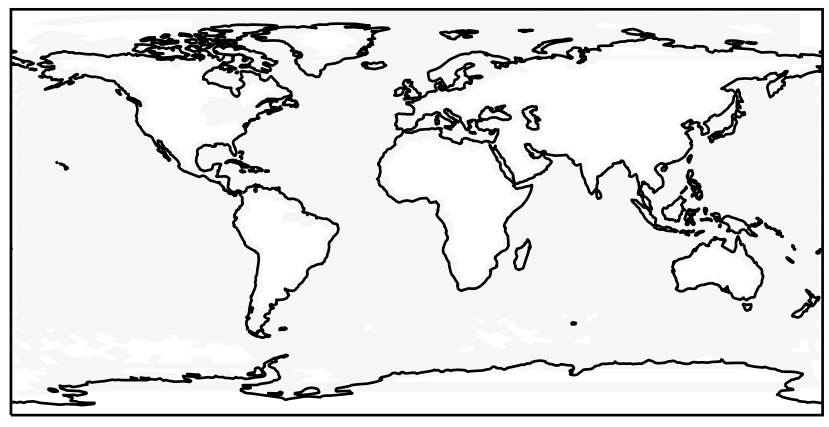
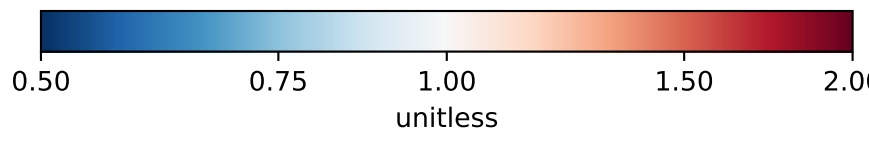
Difference
Dev - Ref, Restricted Range [5%,95%]





Ratio
Dev/Ref, Dynamic Range





Ratio
Dev/Ref, Fixed Range