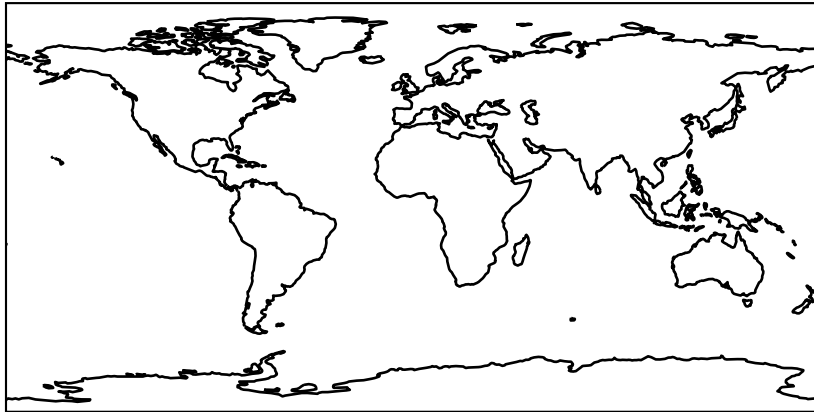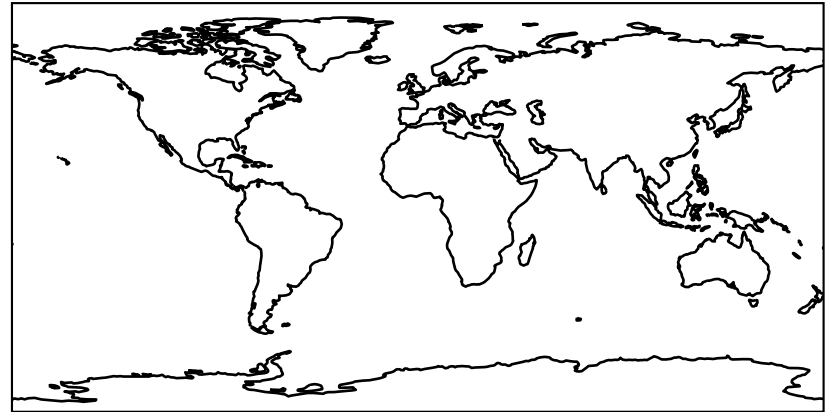# EmisALD2_Ship (Oct2019)

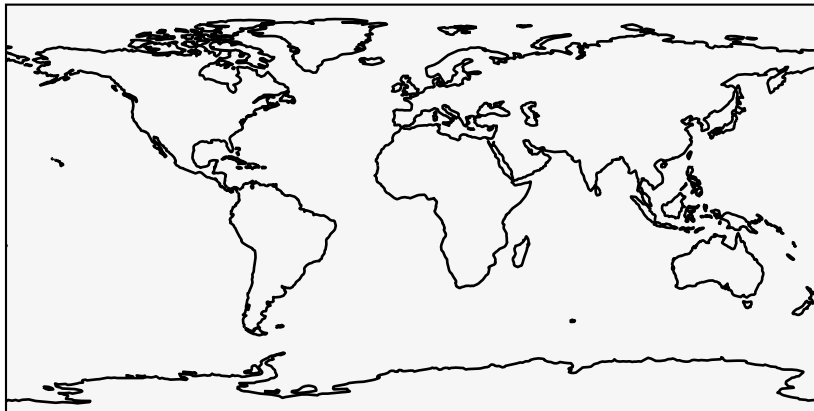gcc-14.3.0-rc.0 (Ref)
4.0x5.0

Zero throughout domain
kg/m2/s
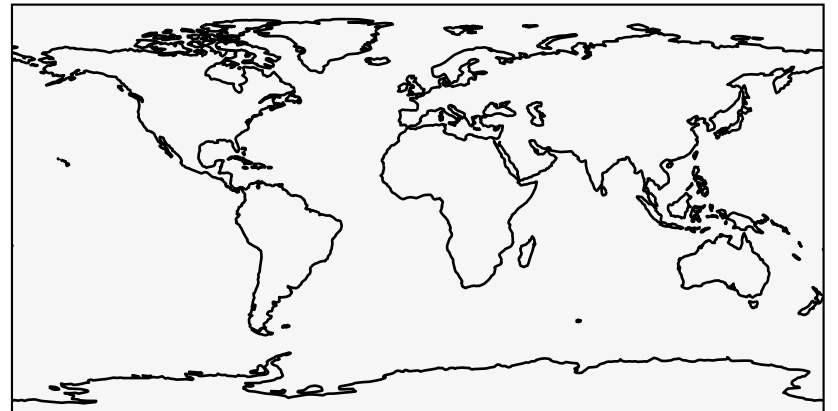
gcc-14.4.0-rc.0 (Dev)
4.0x5.0

Zero throughout domain
kg/m2/s
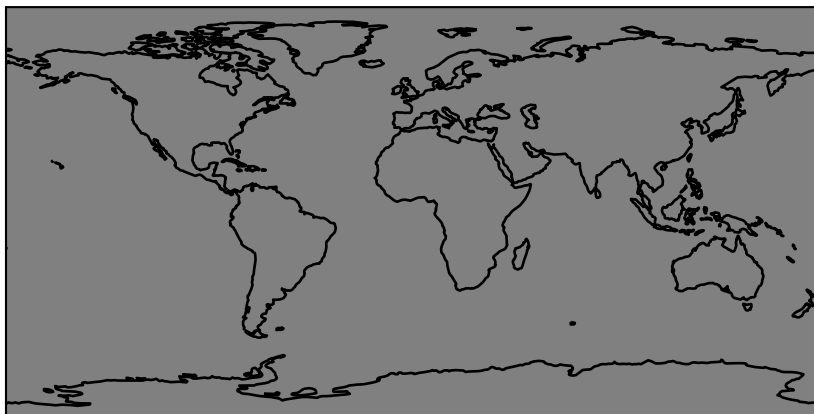
Difference
Dev - Ref, Dynamic Range

Zero throughout domain
kg/m2/s

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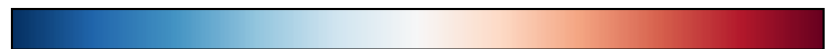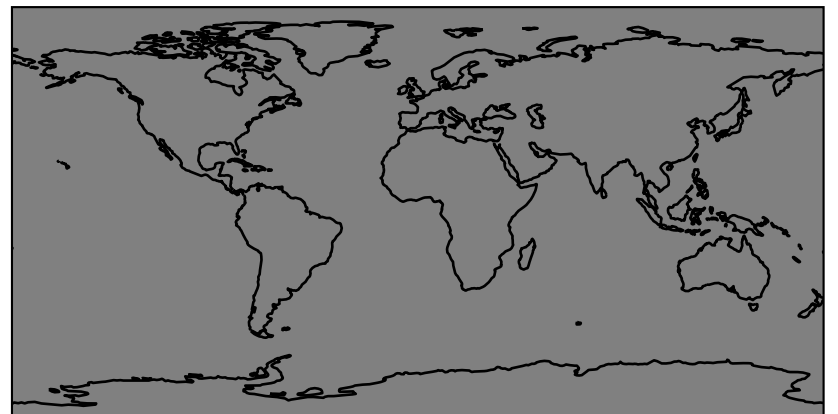Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range
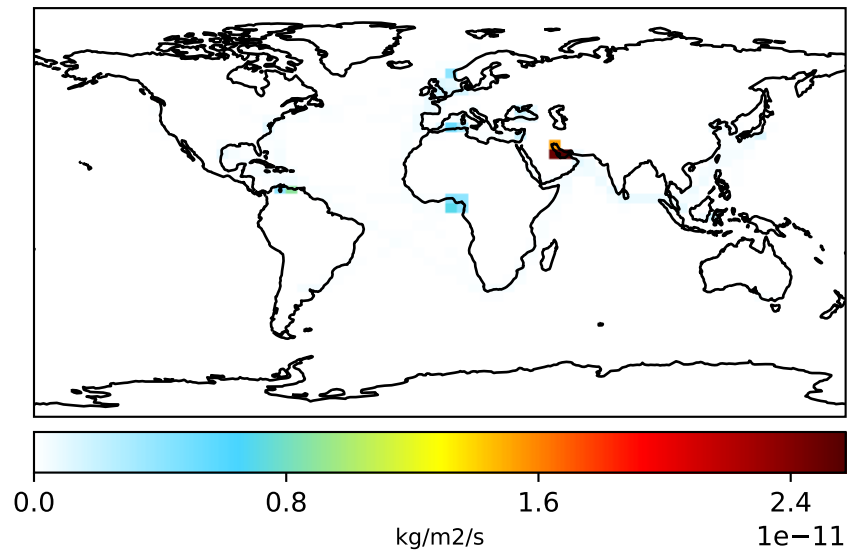
Undefined throughout domain
unitless

Ratio
Dev/Ref, Fixed Range

Undefined throughout domain
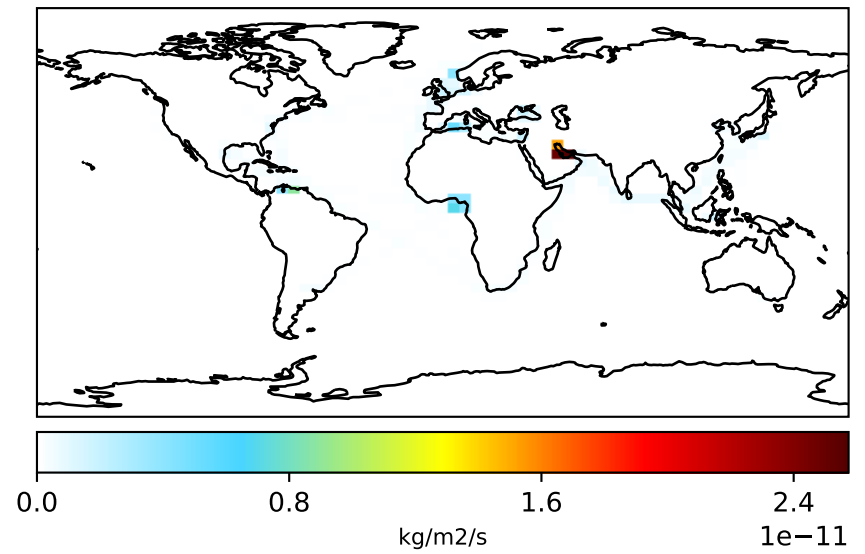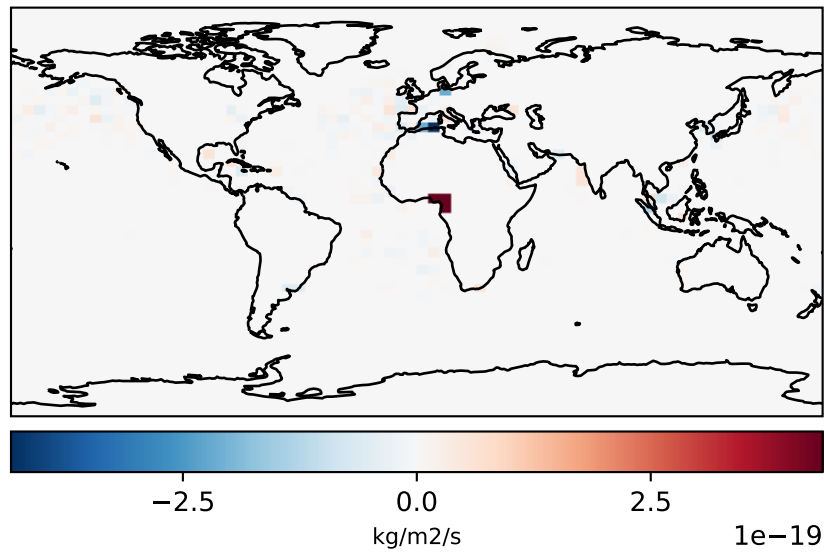unitless

EmisALK4_Ship (Oct2019)

EmisBCPI_Ship (Oct2019)

EmisBCPO_Ship (Oct2019)

EmisBENZ_Ship (Oct2019)

gcc-14.3.0-rc.0 (Ref)
4.0x5.0

kg/m2/s

gcc-14.4.0-rc.0 (Dev)
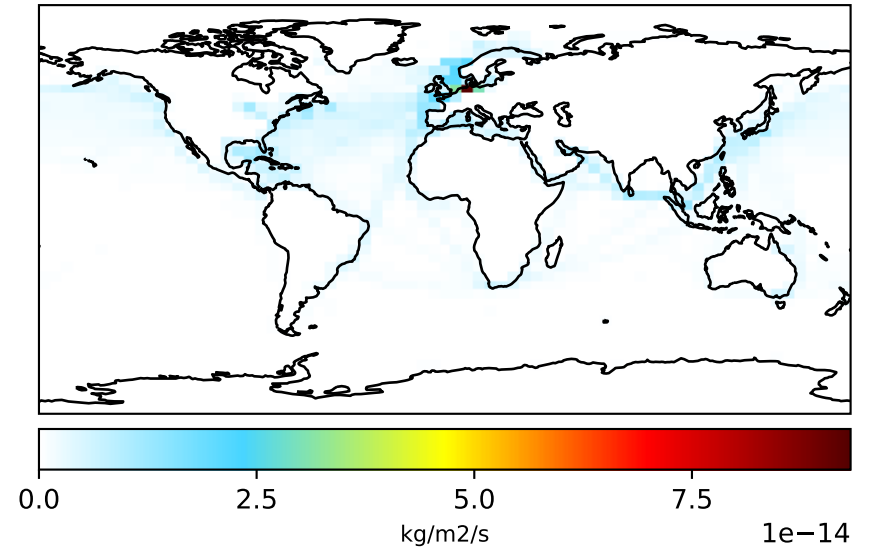4.0x5.0

kg/m2/s

Difference
Dev - Ref, Dynamic Range

kg/m2/s

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

kg/m2/s

Ratio
Dev/Ref, Dynamic Range

unitless

Ratio
Dev/Ref, Fixed Range

unitless

EmisC2H2_Ship (Oct2019)

| gcc-14.3.0-rc.0 (Ref) | gcc-14.4.0-rc.0 (Dev) |
| 4.0x5.0 | 4.0x5.0 |

Difference
Dev - Ref, Dynamic Range

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

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range
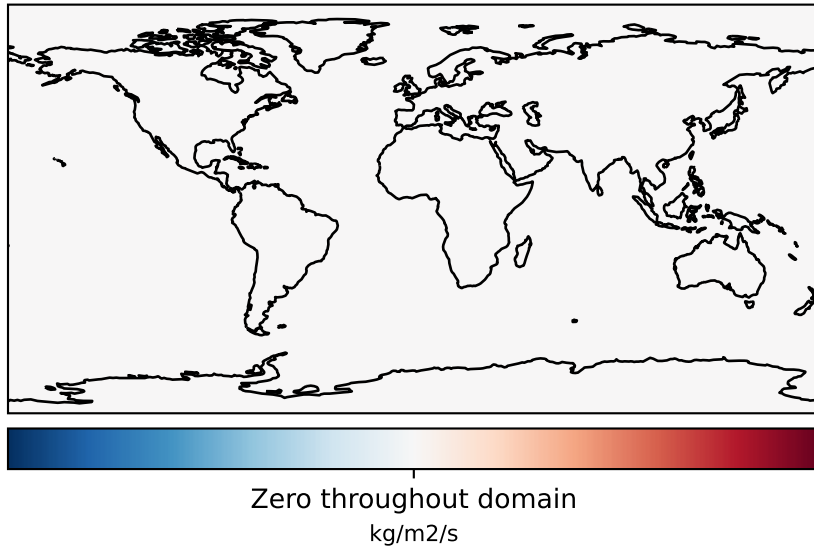
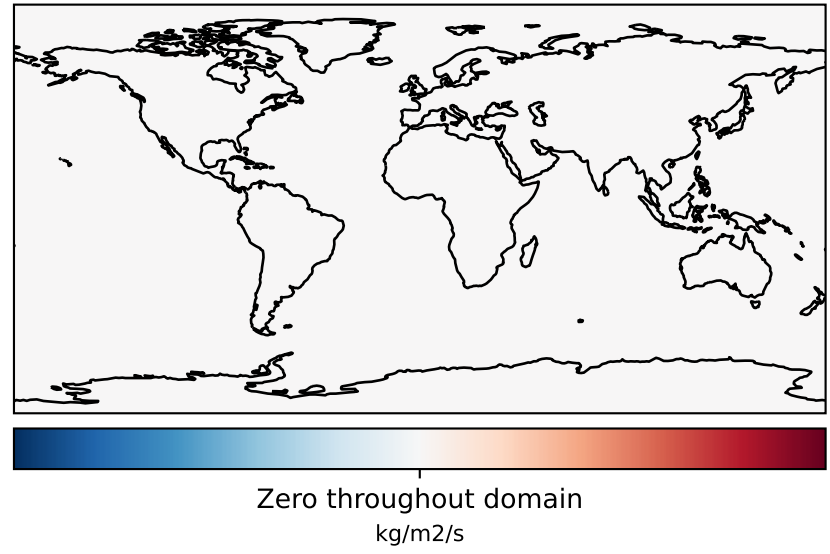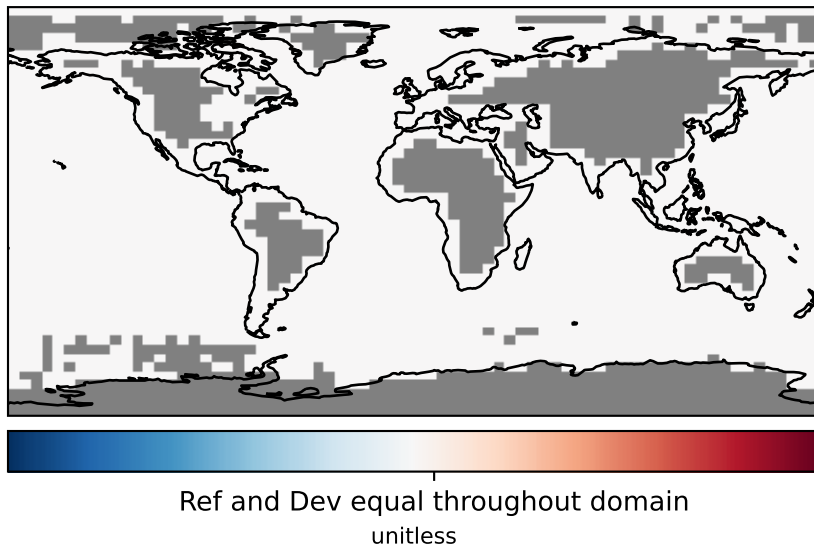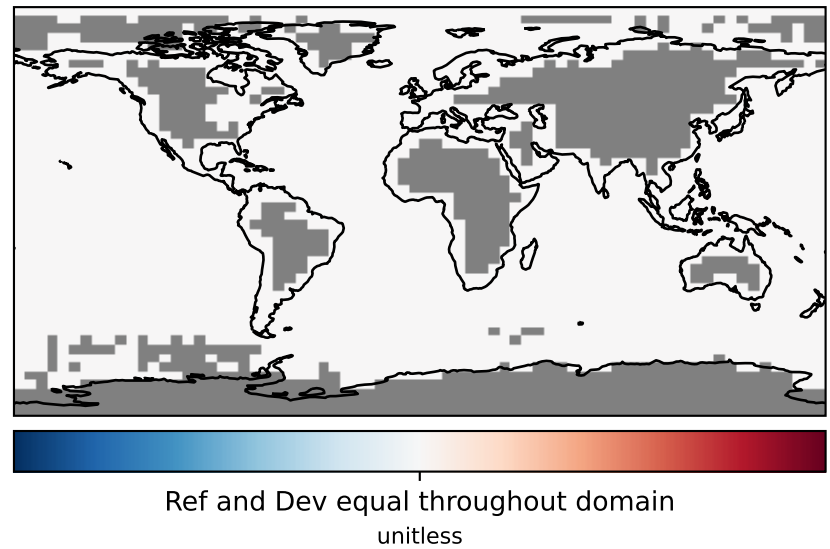# EmisC2H4_Ship (Oct2019)

gcc-14.3.0-rc.0 (Ref)
4.0x5.0

gcc-14.4.0-rc.0 (Dev)
4.0x5.0

Difference
Dev - Ref, Dynamic Range

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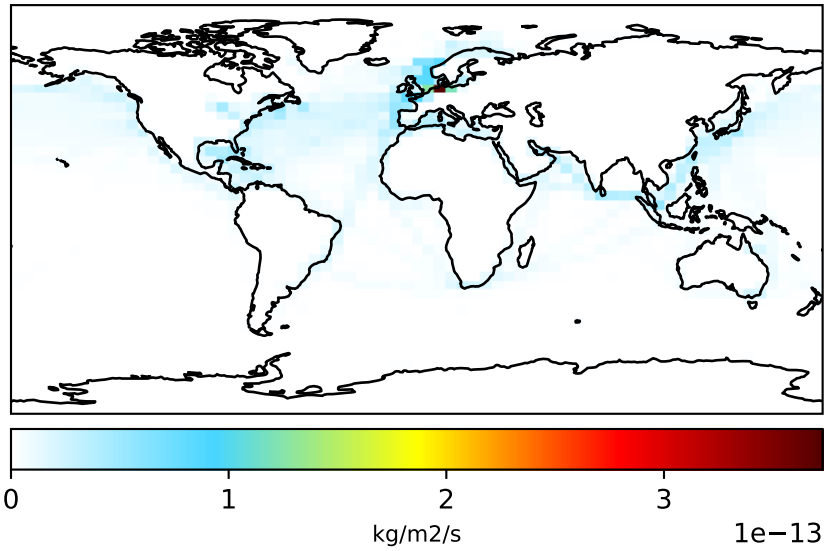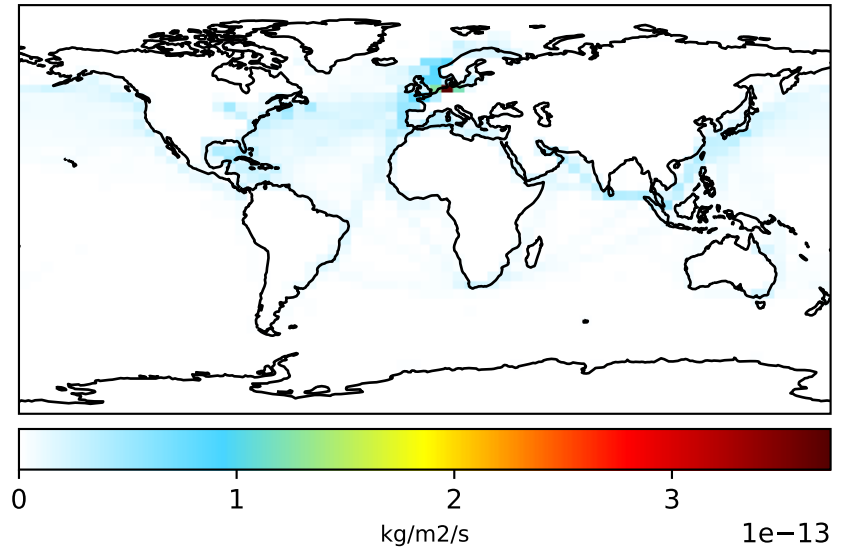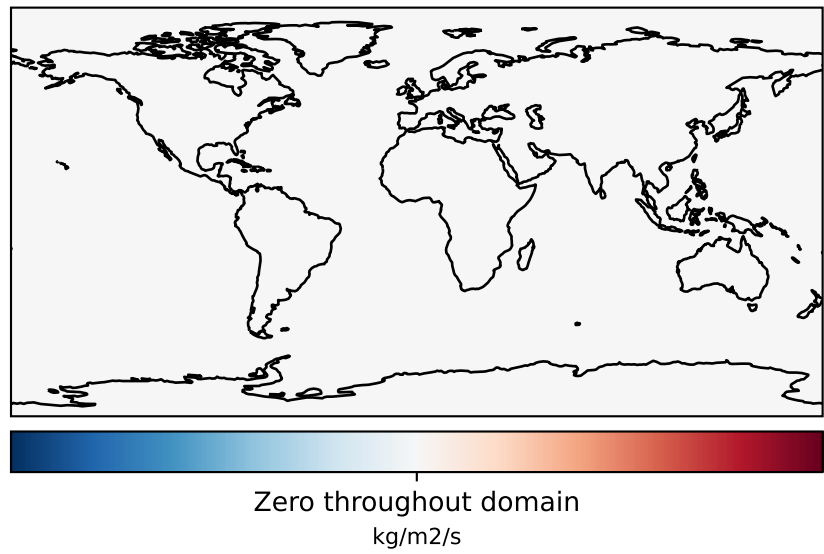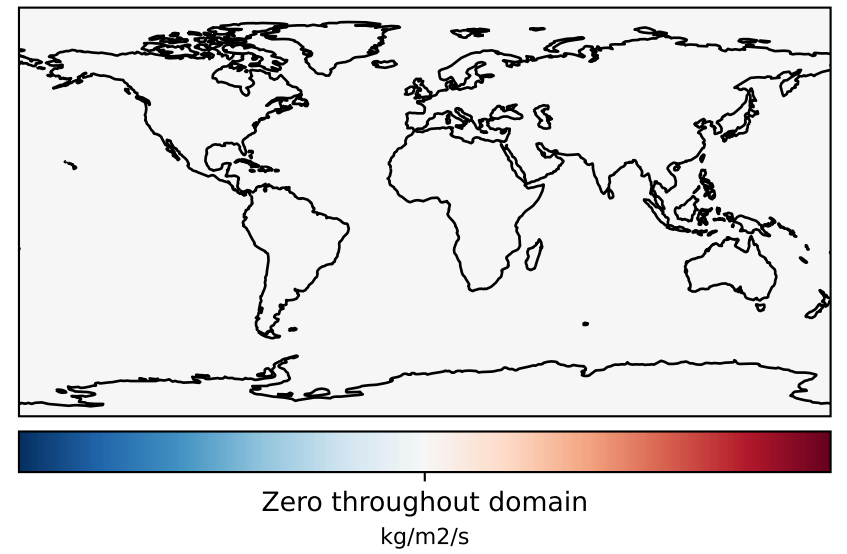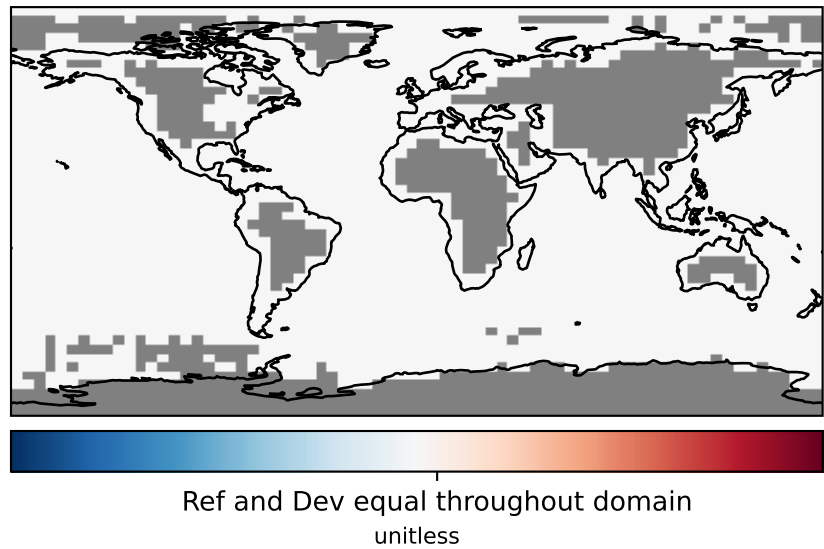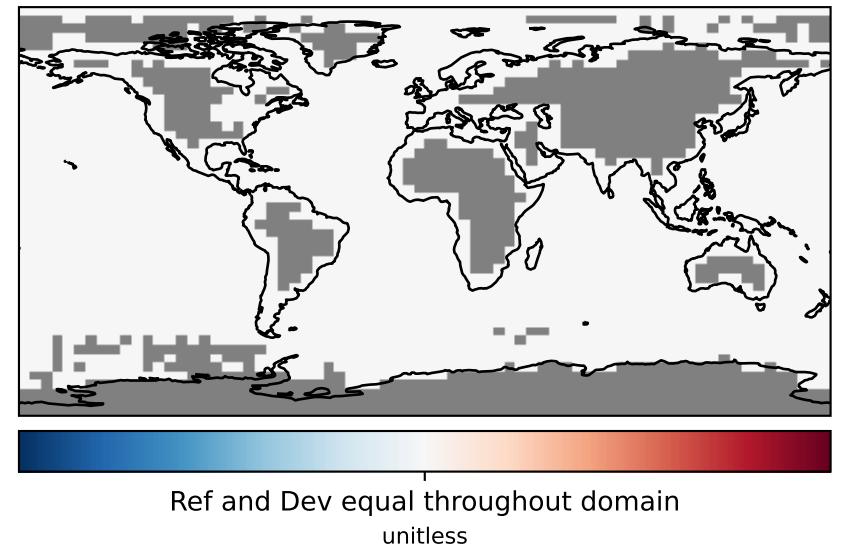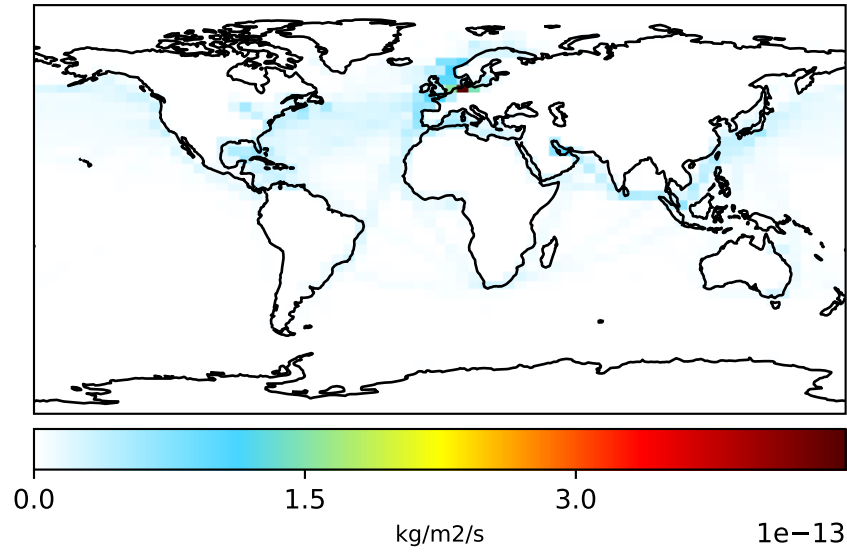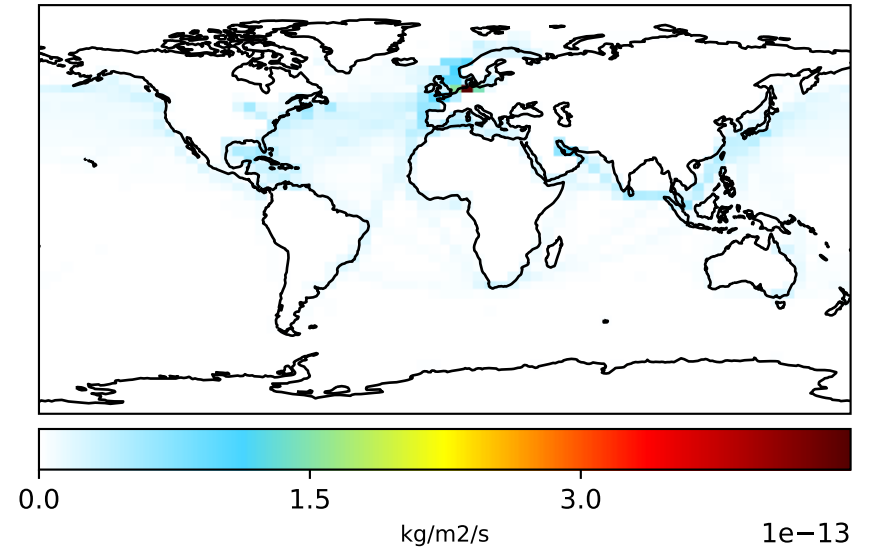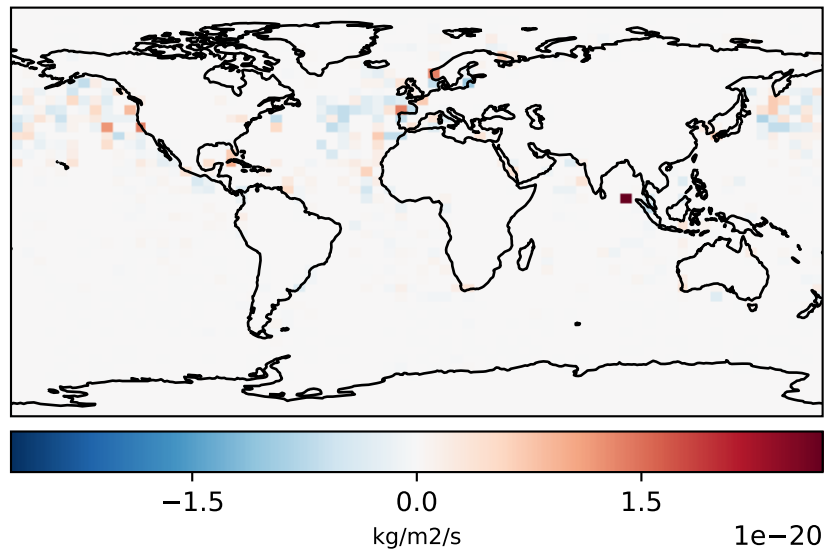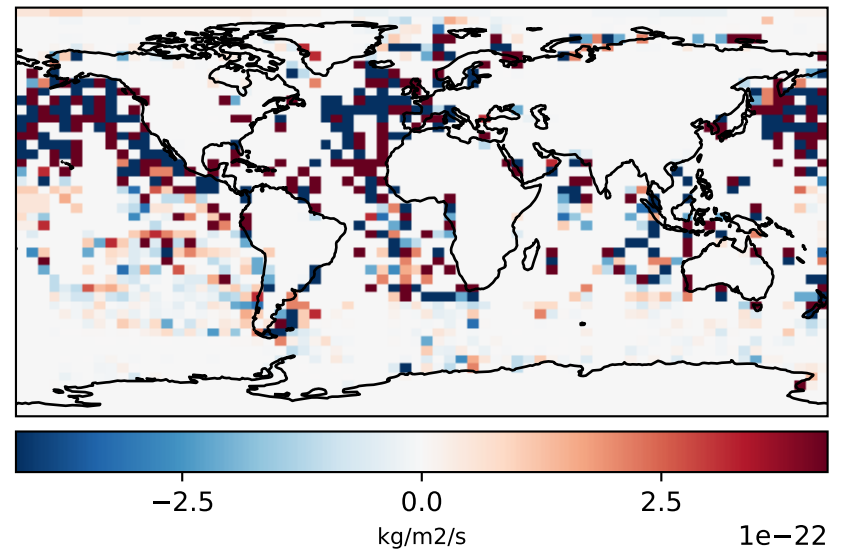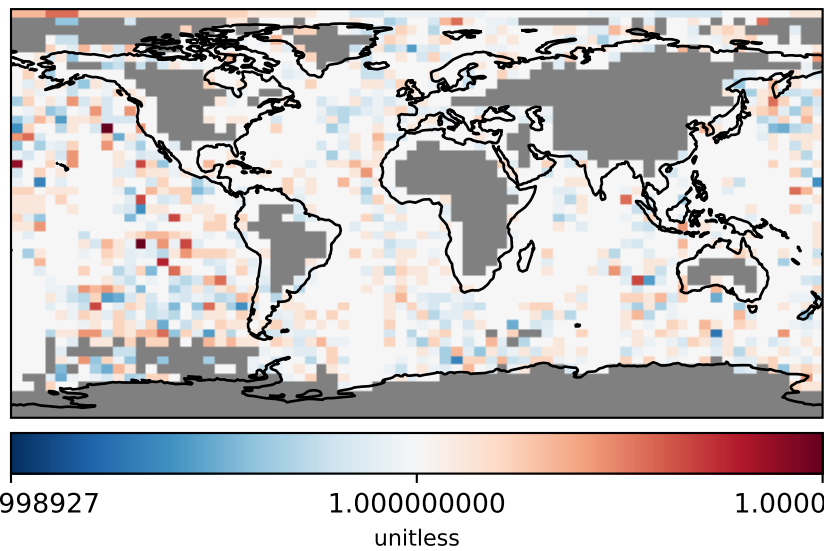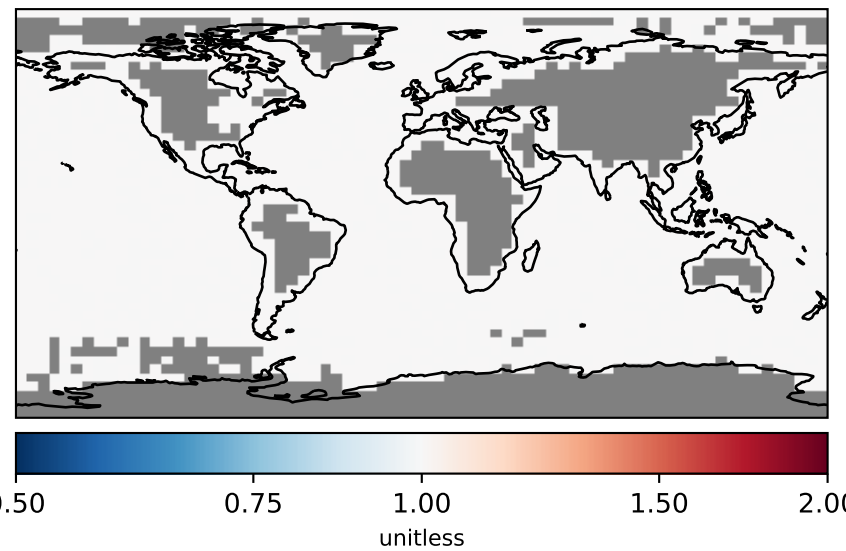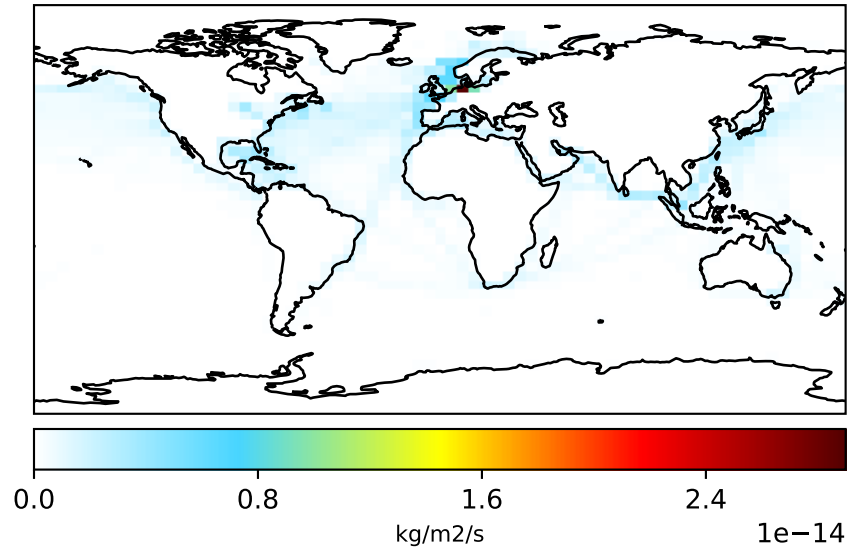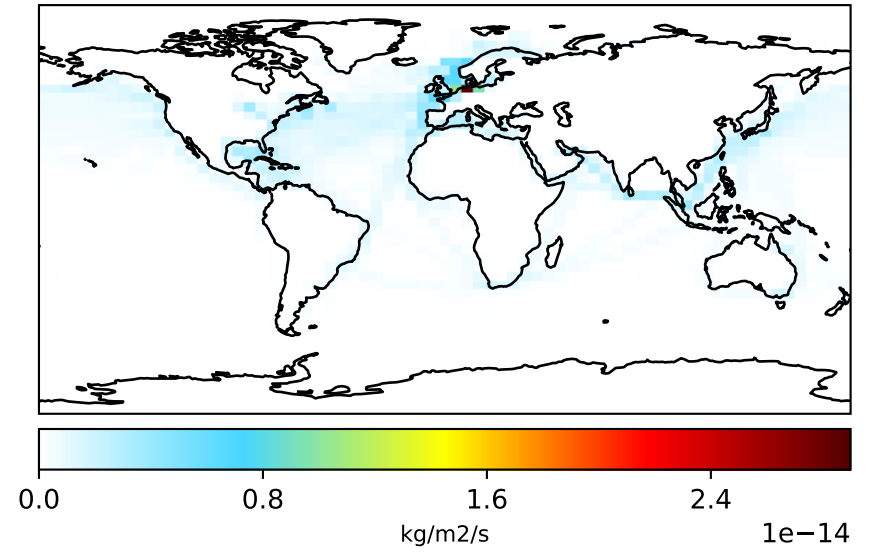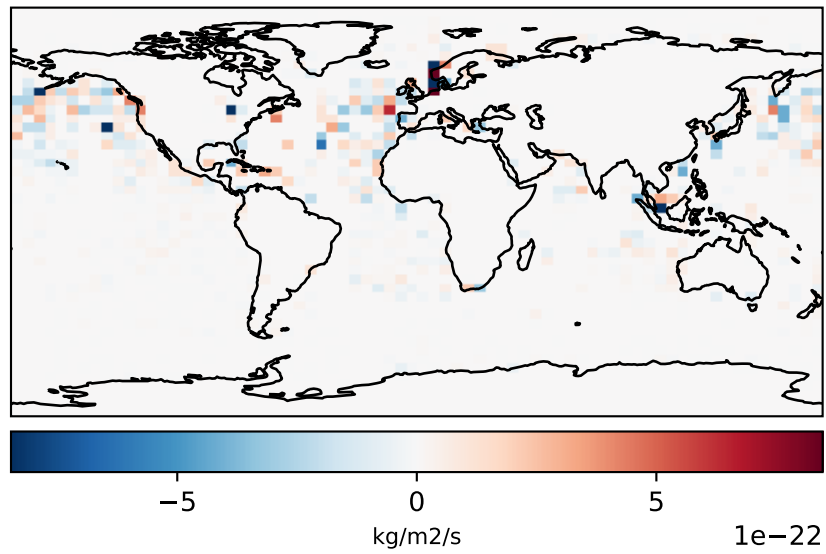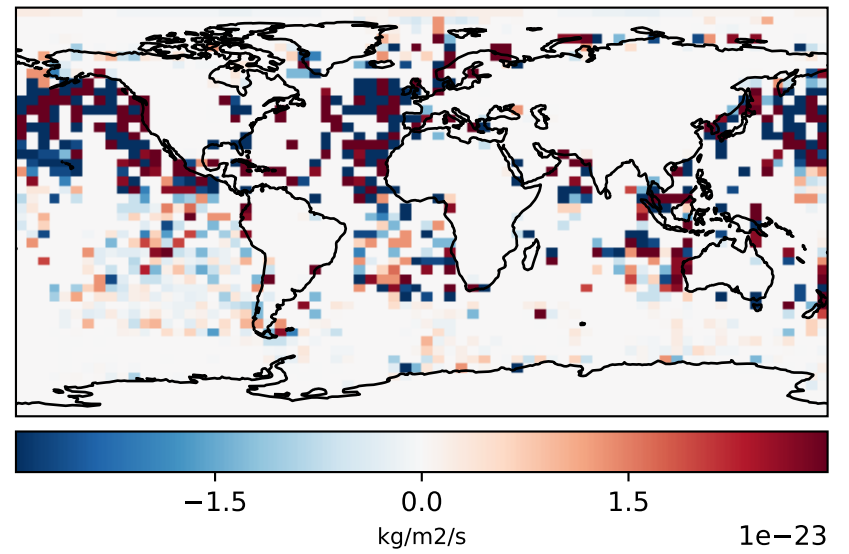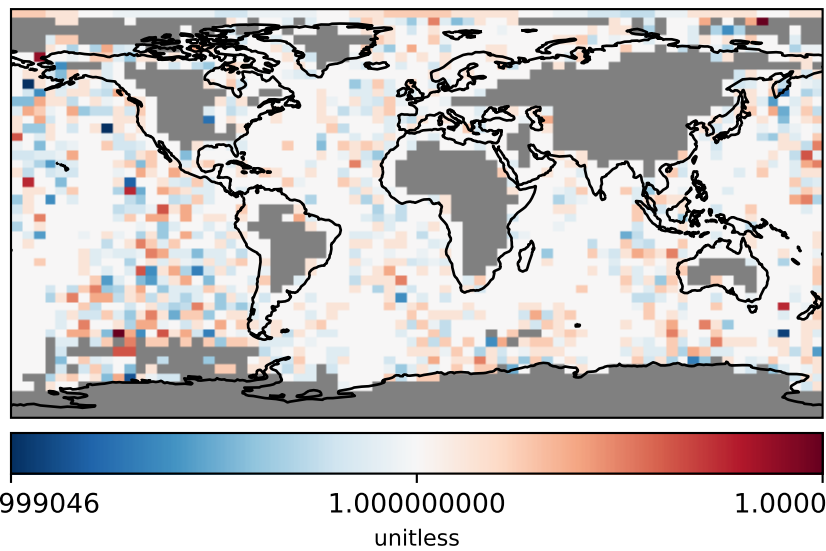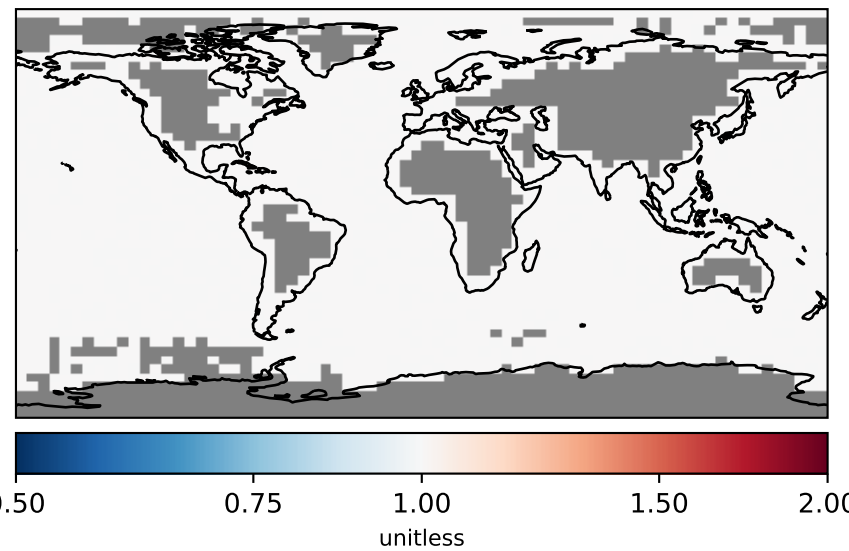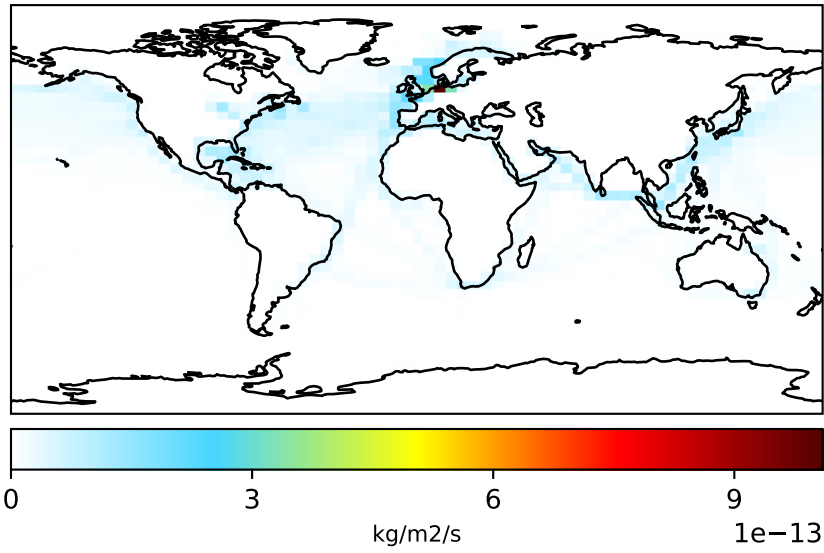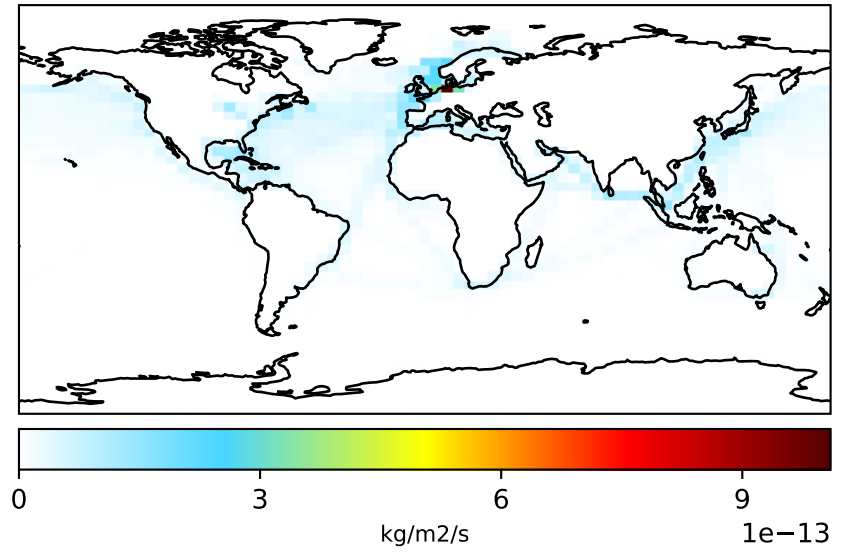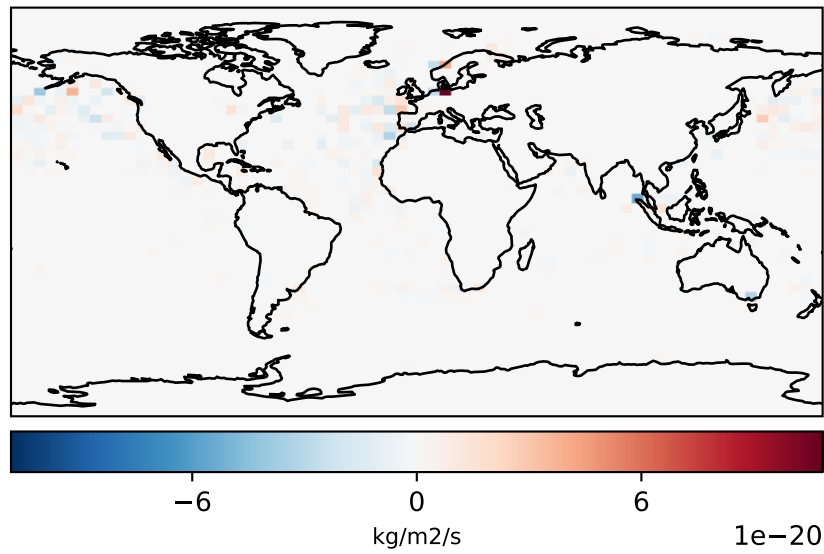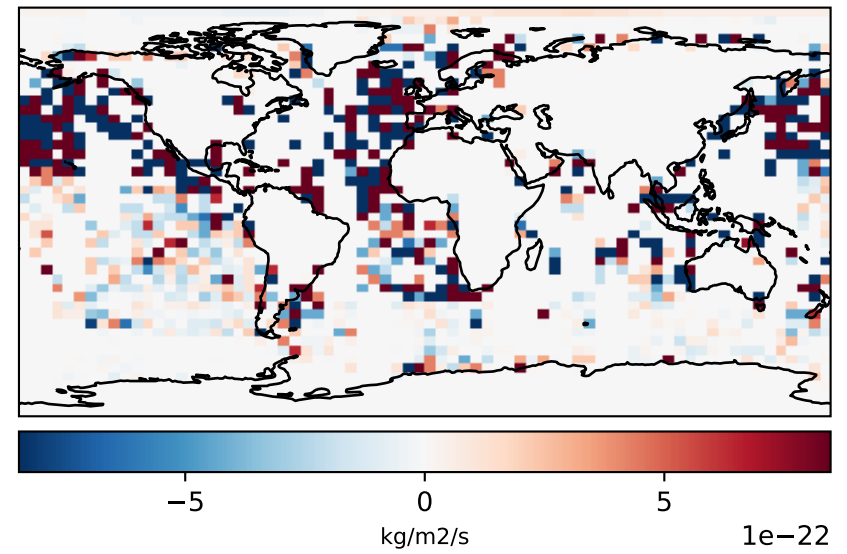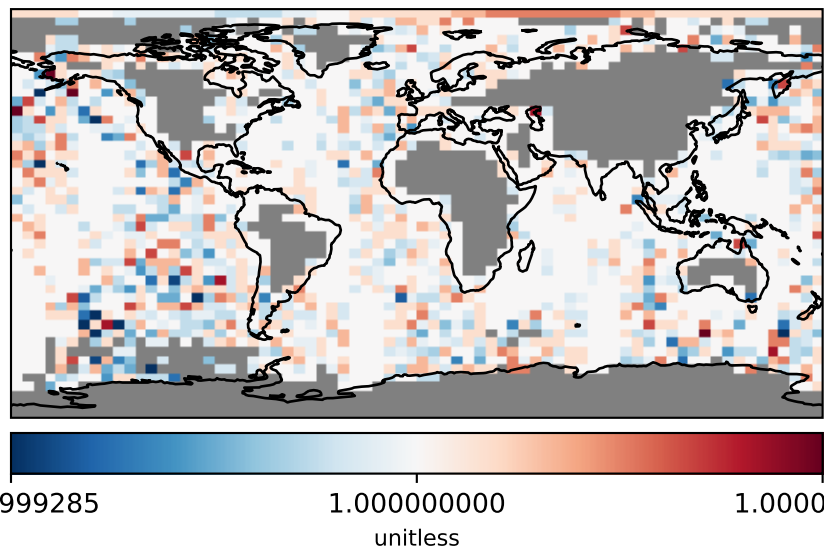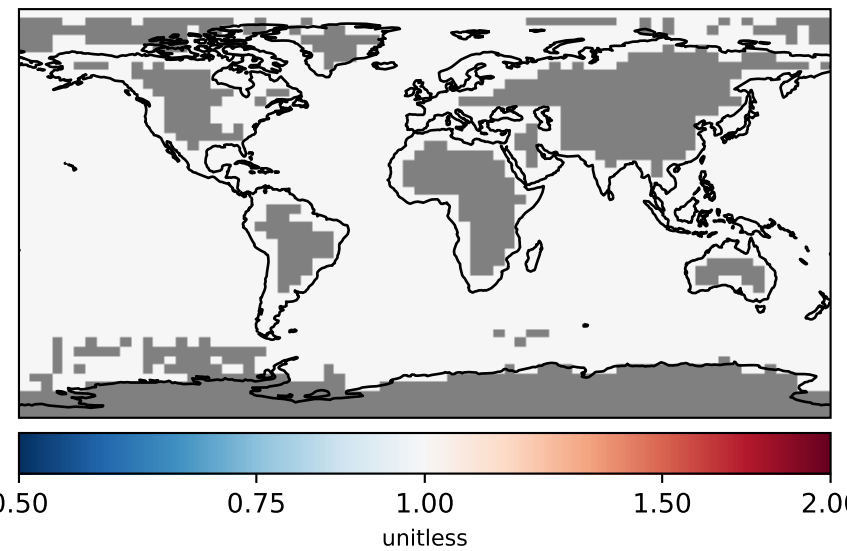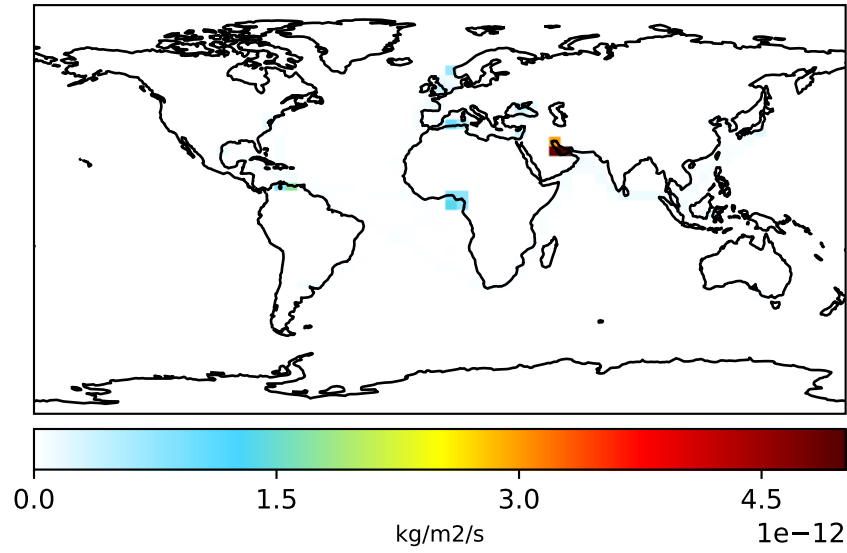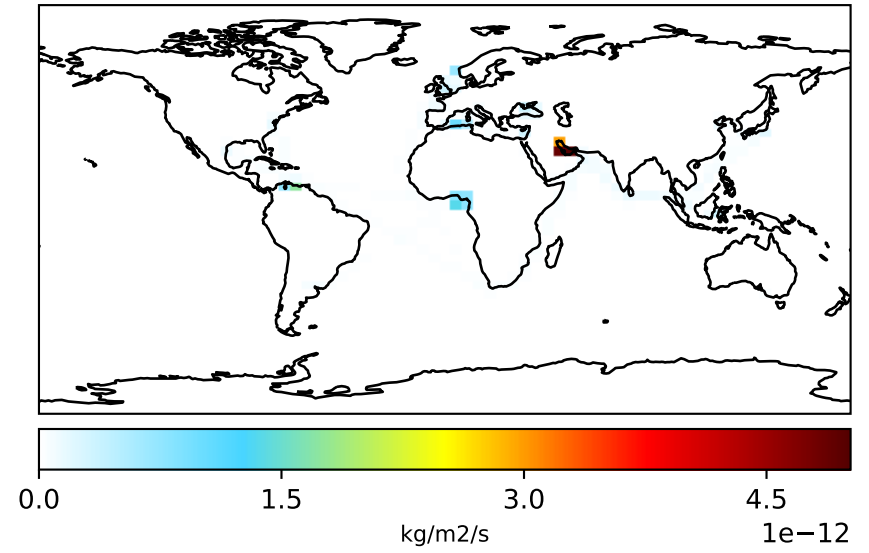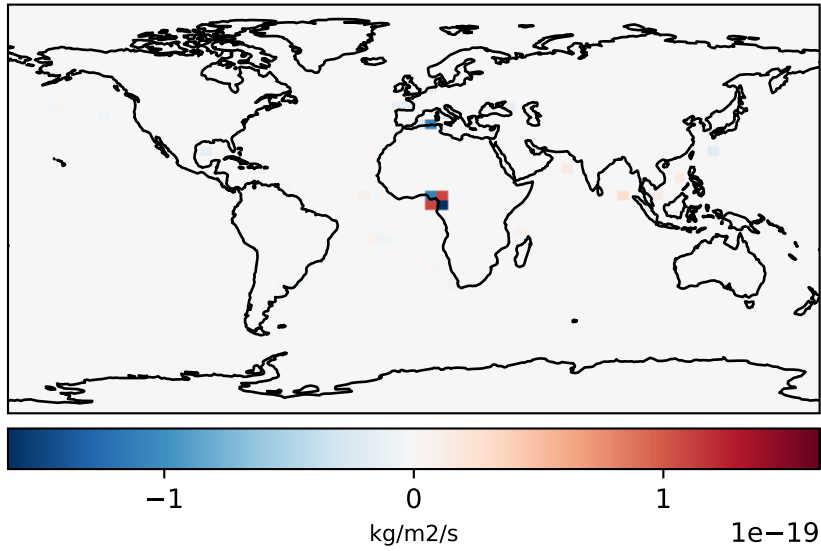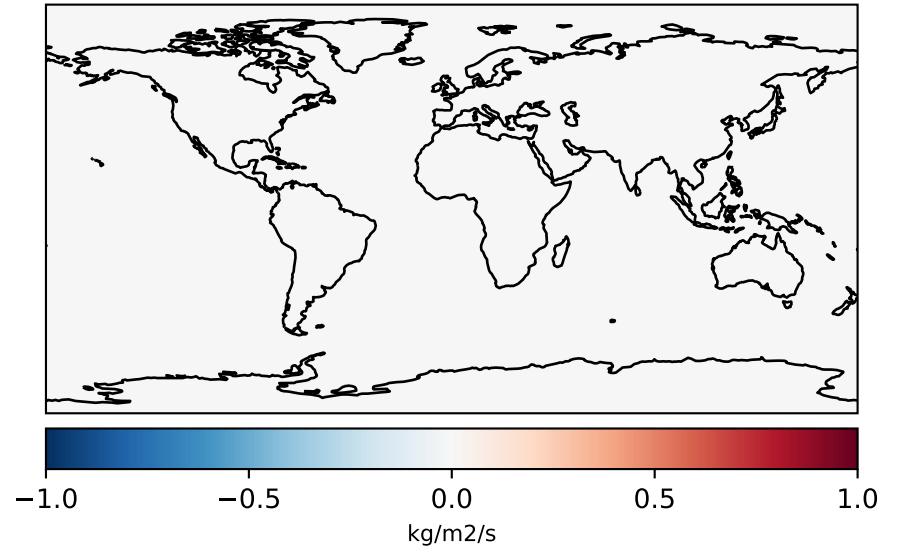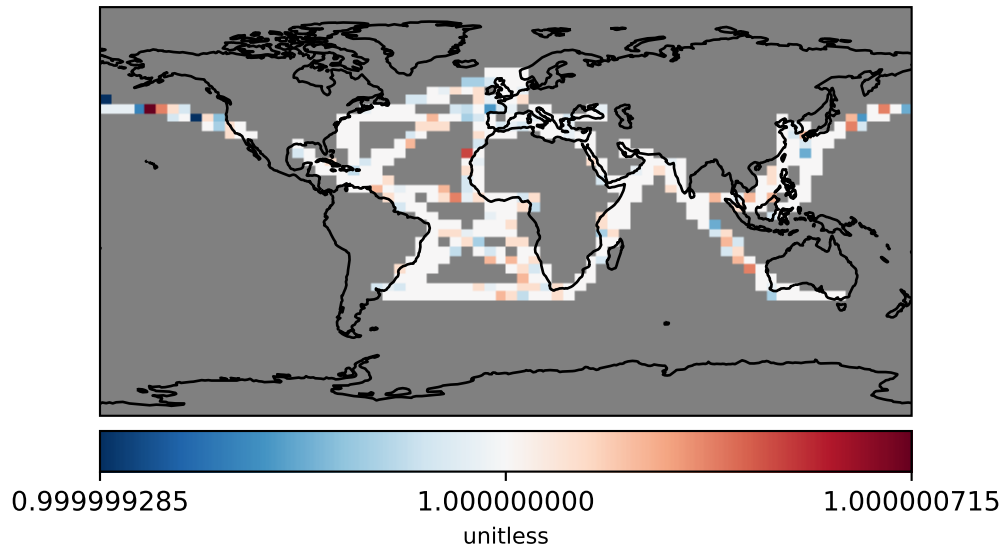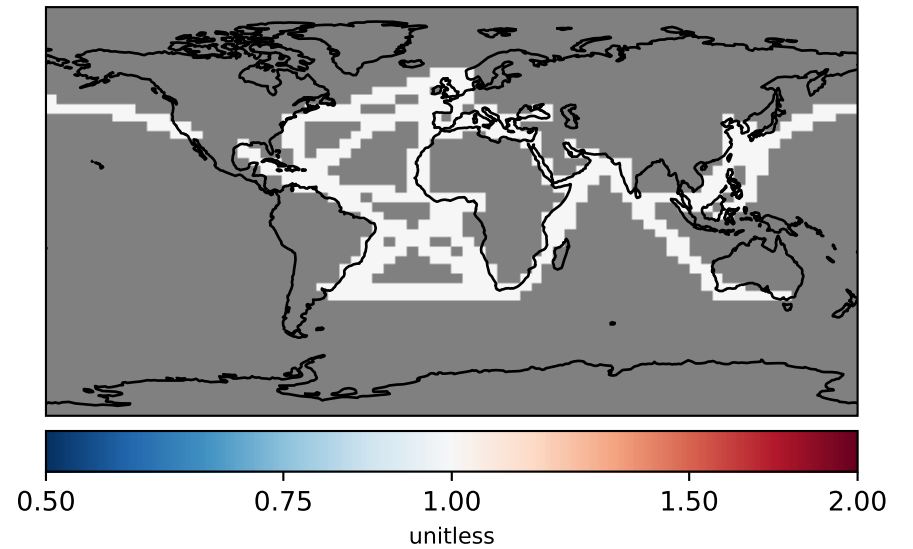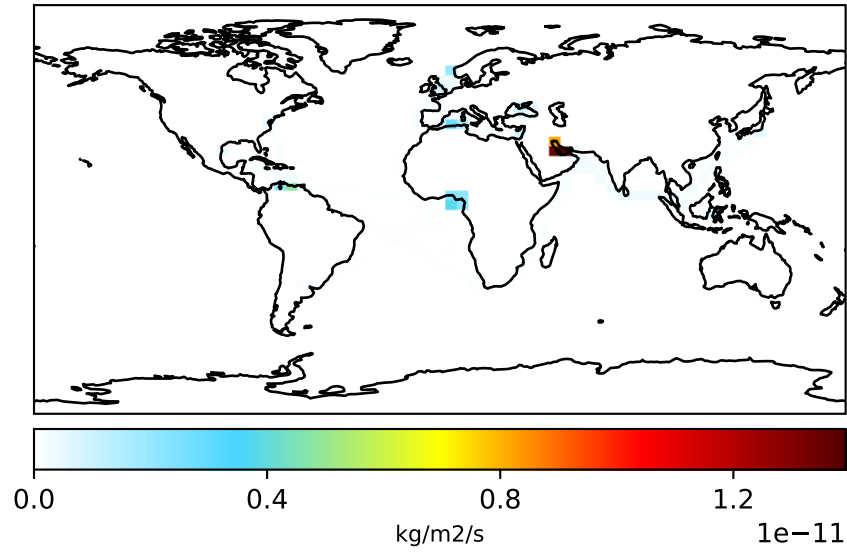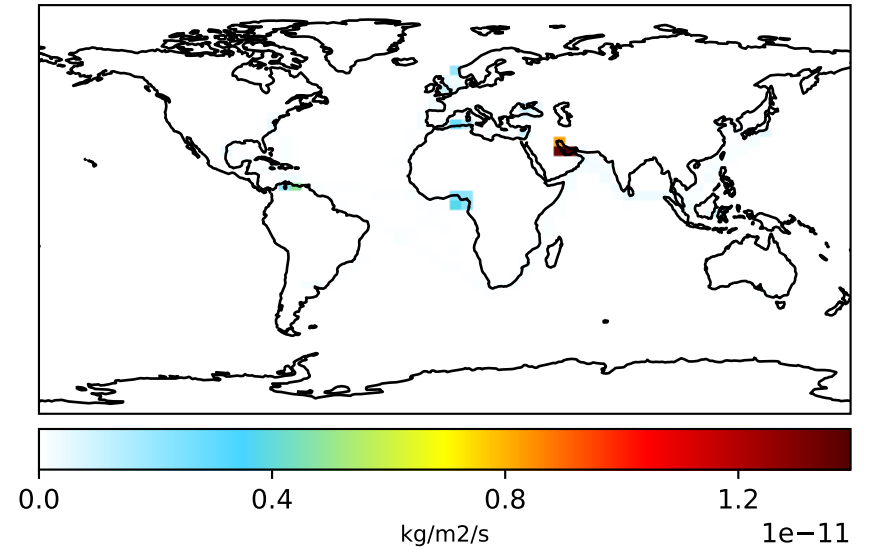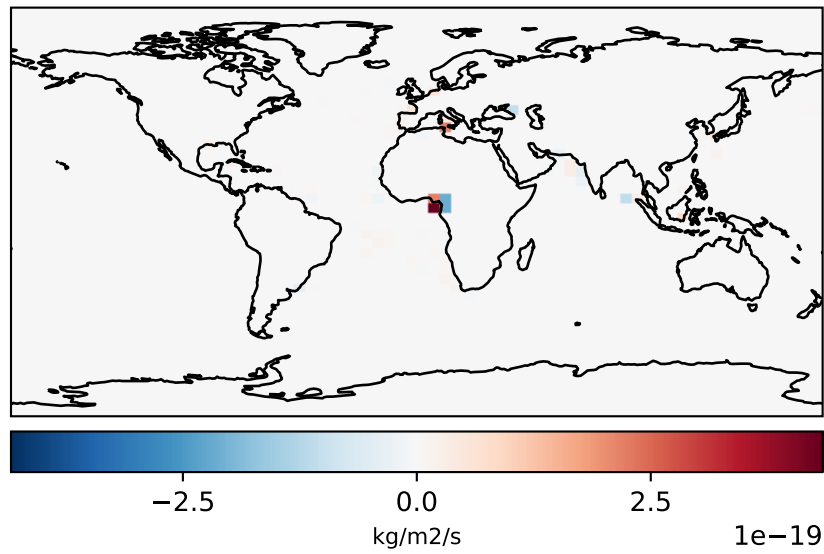Dev - Ref, Restricted Range [5%,95%]

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

EmisC2H6_Ship (Oct2019)

EmisC3H8_Ship (Oct2019)

EmisCH2O_Ship (Oct2019)

gcc-14.3.0-rc.0 (Ref)
4.0x5.0

Zero throughout domain
kg/m2/s

gcc-14.4.0-rc.0 (Dev)
4.0x5.0

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

EmisCO_Ship (Oct2019)

EmisEOH_Ship (Oct2019)

gcc-14.3.0-rc.0 (Ref)
4.0x5.0

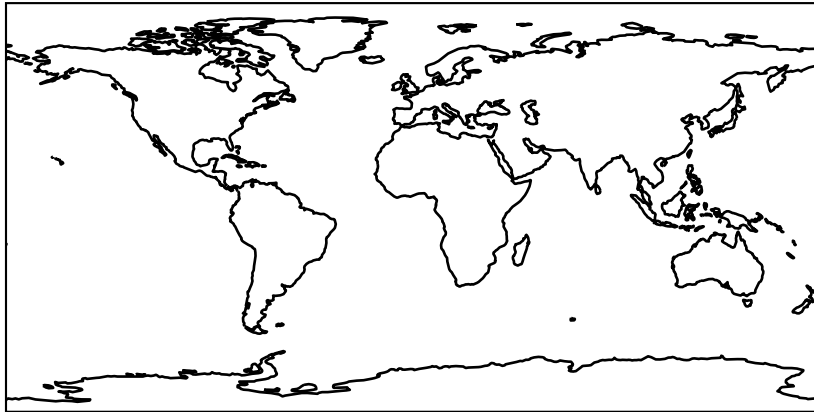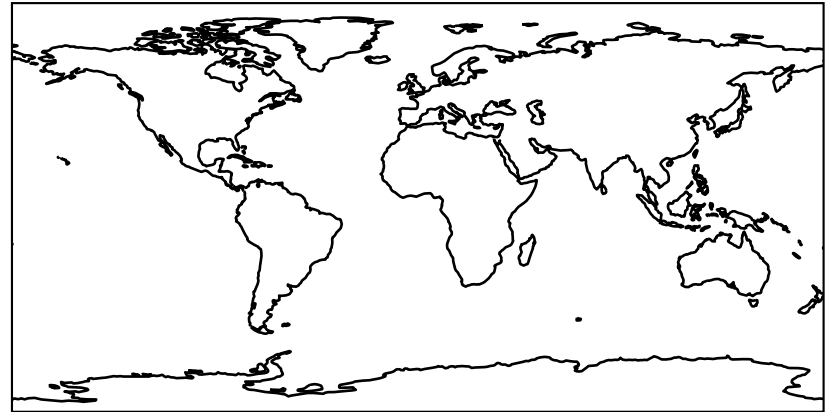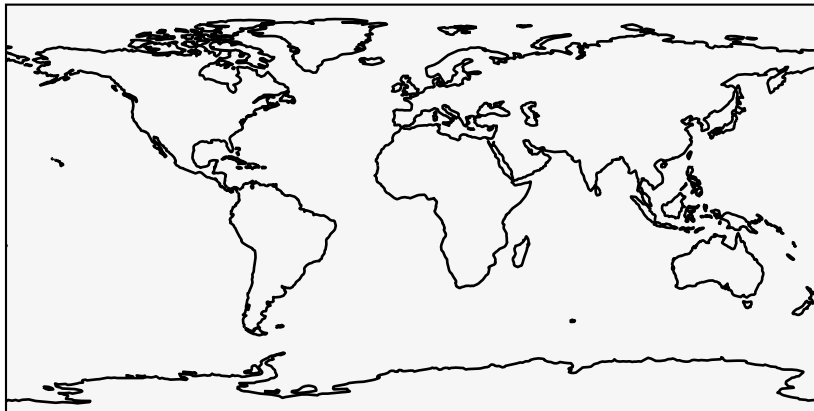Zero throughout domain
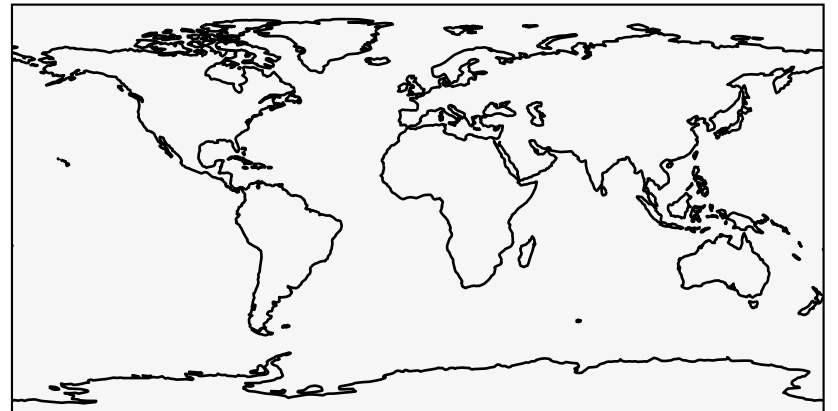kg/m2/s

gcc-14.4.0-rc.0 (Dev)
4.0x5.0

Zero throughout domain
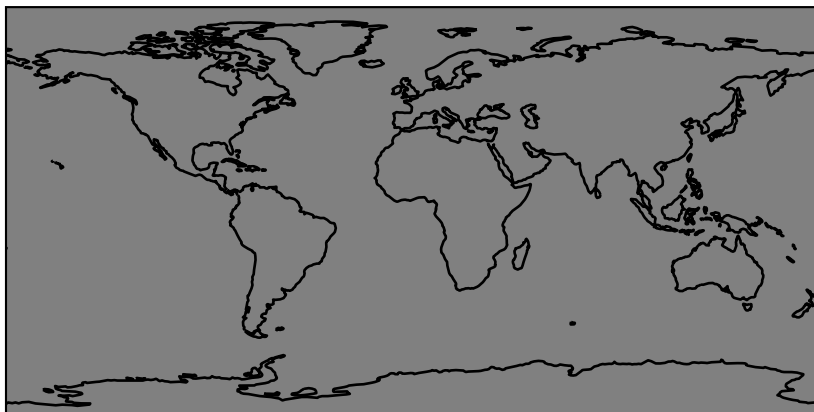kg/m2/s

Difference
Dev - Ref, Dynamic Range

Zero throughout domain
kg/m2/s

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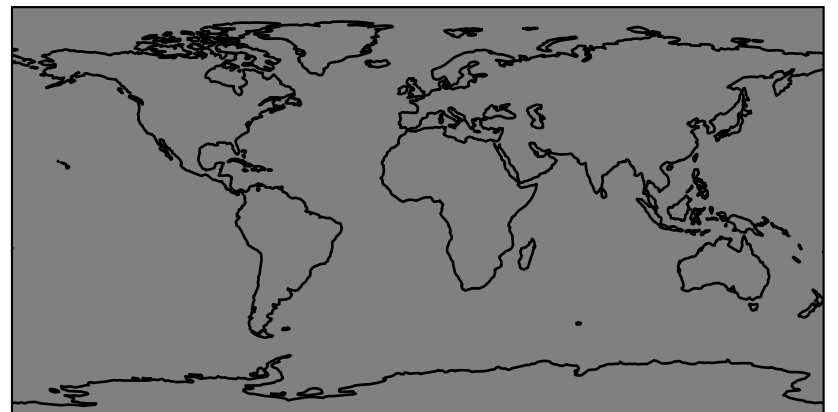Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Ratio
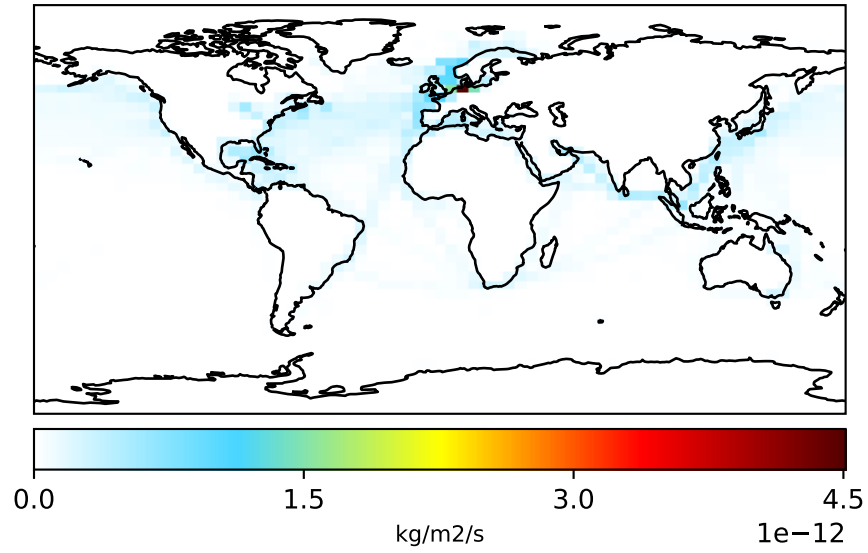Dev/Ref, Dynamic Range

Undefined throughout domain
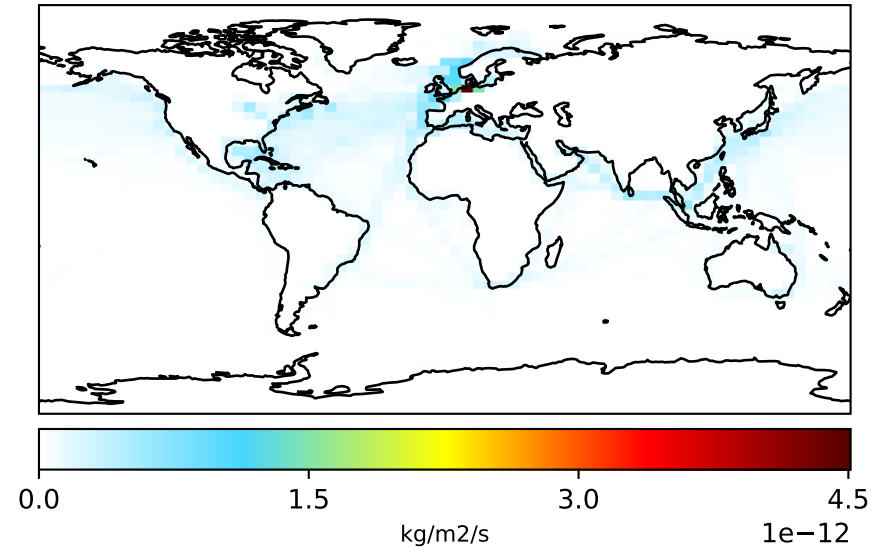unitless

Ratio
Dev/Ref, Fixed Range

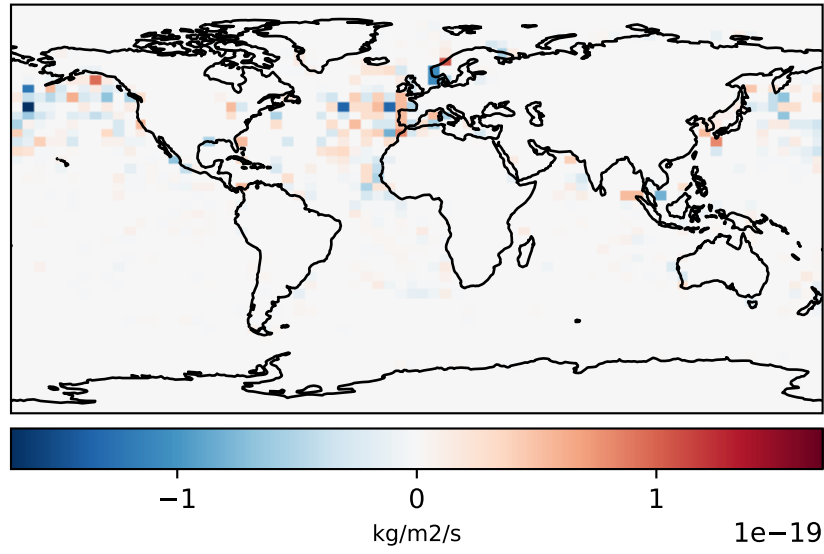Undefined throughout domain
unitless

EmisHCOOH_Ship (Oct2019)

gcc-14.3.0-rc.0 (Ref)
4.0x5.0

Zero throughout domain

kg/m2/s

gcc-14.4.0-rc.0 (Dev)
4.0x5.0

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

EmisHNO3_Ship (Oct2019)
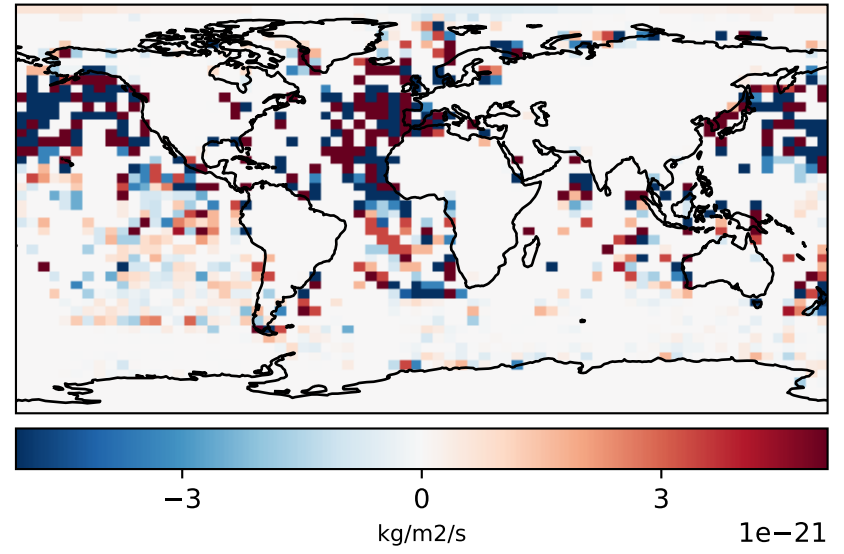

gcc-14.3.0-rc.0 (Ref)
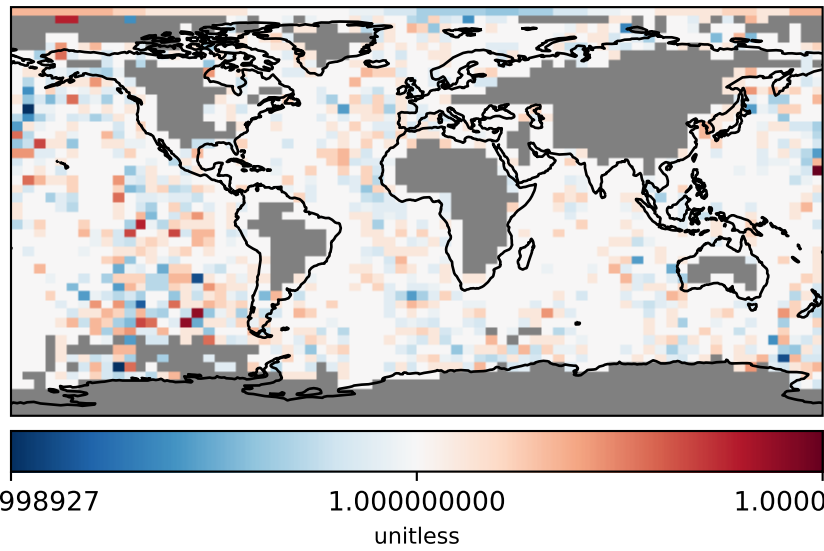4.0x5.0

gcc-14.4.0-rc.0 (Dev)
4.0x5.0

kg/m2/s

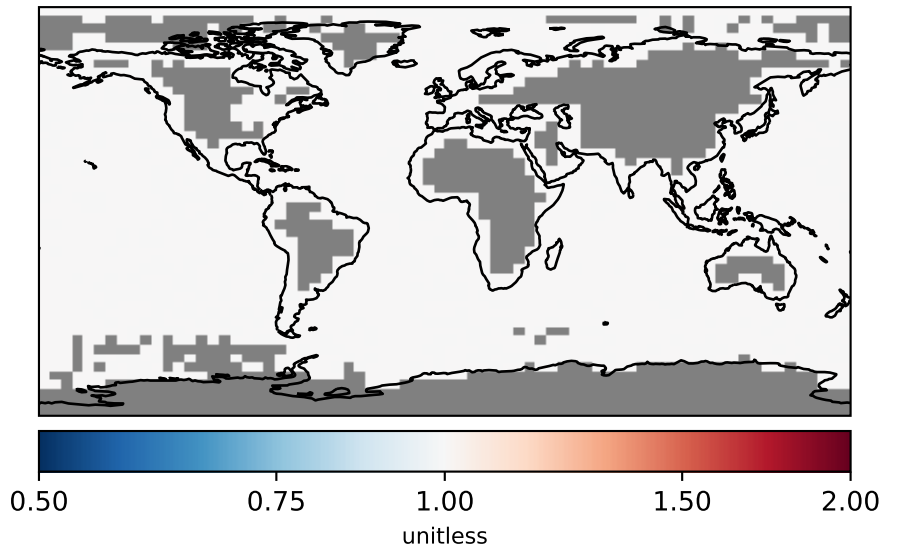Difference
Dev - Ref, Dynamic Range

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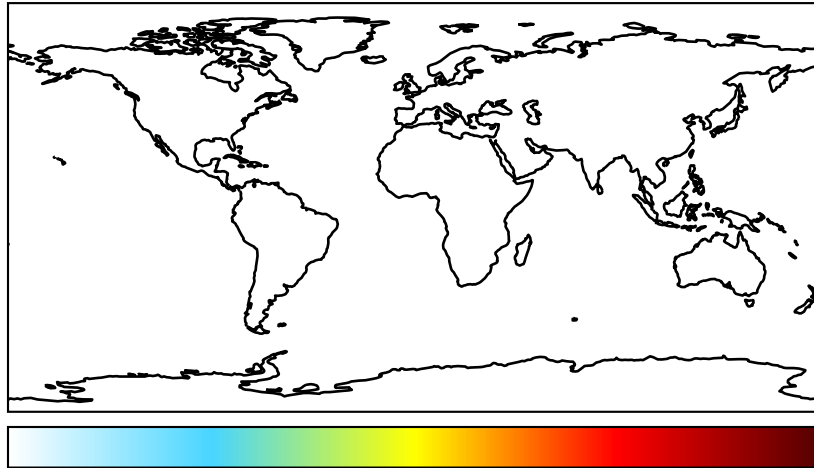Dev - Ref, Restricted Range [5%,95%]

kg/m2/s
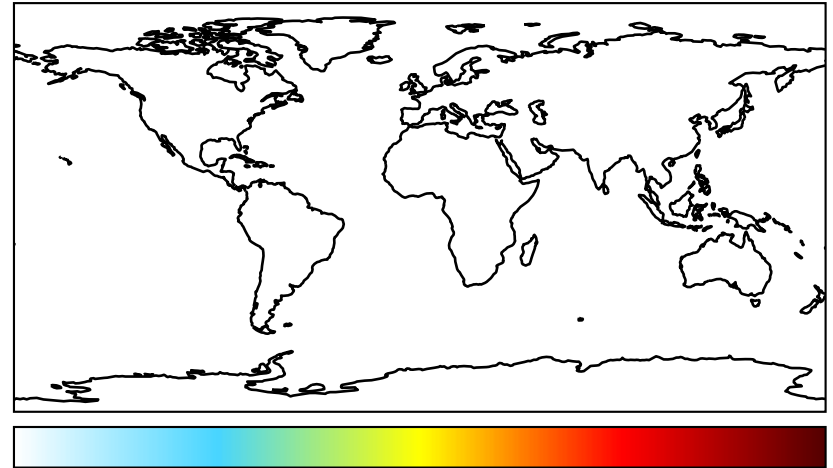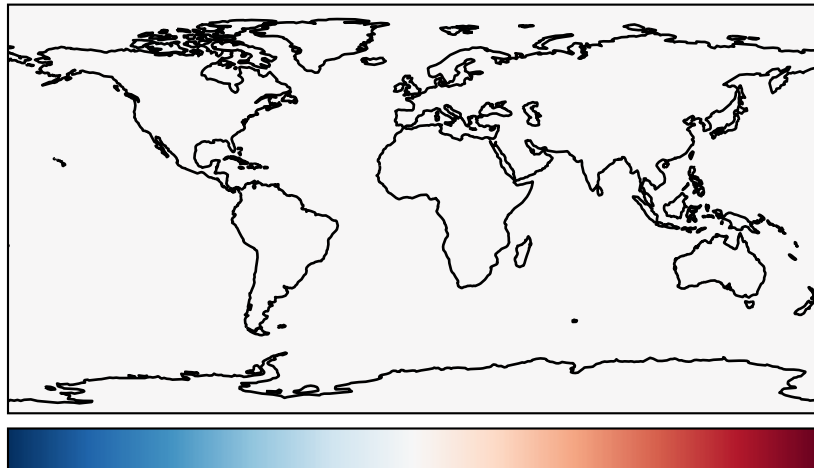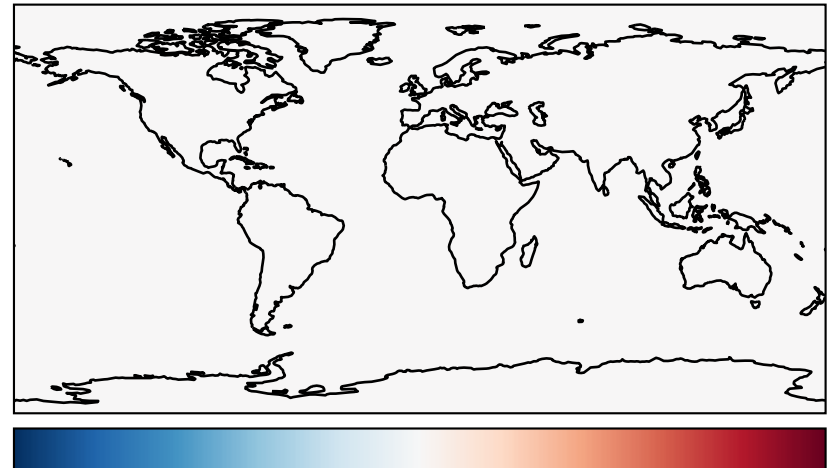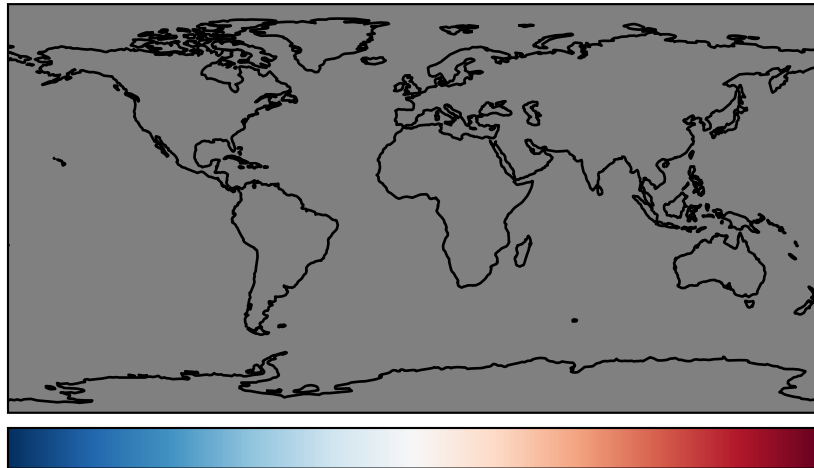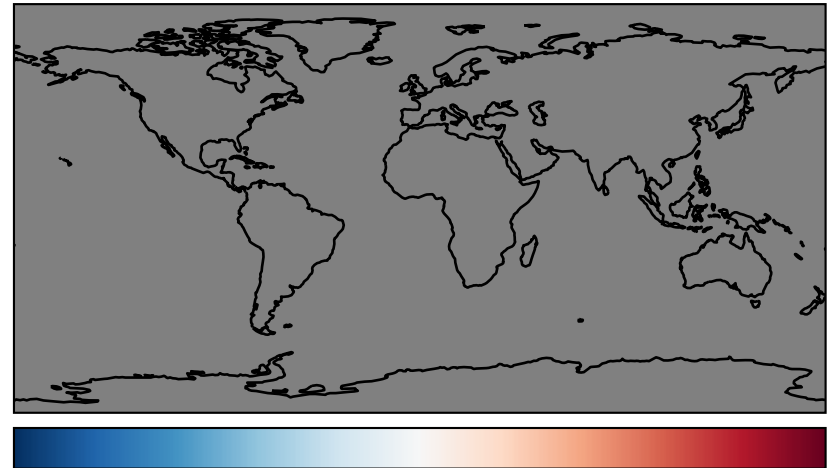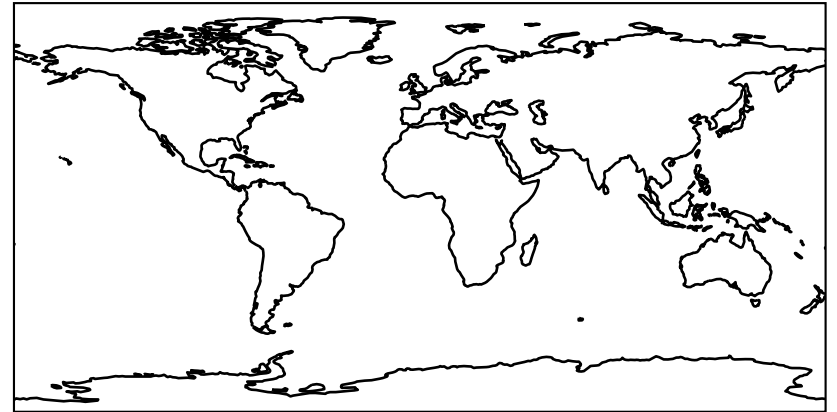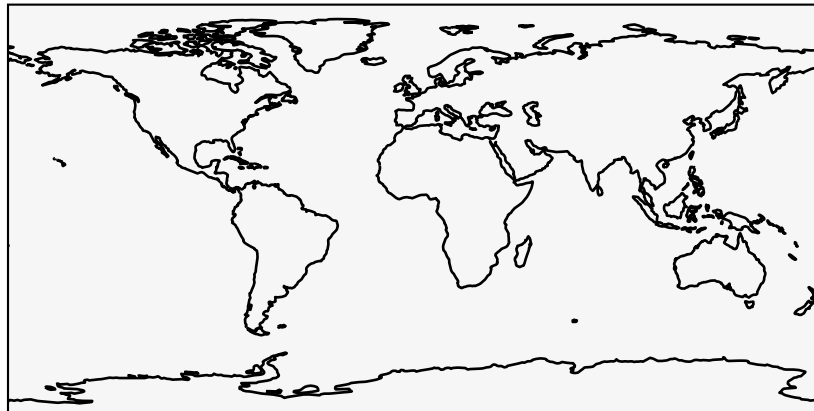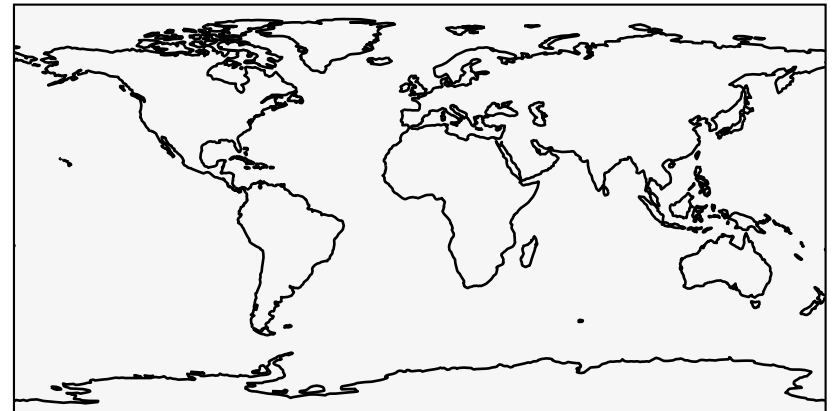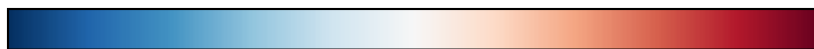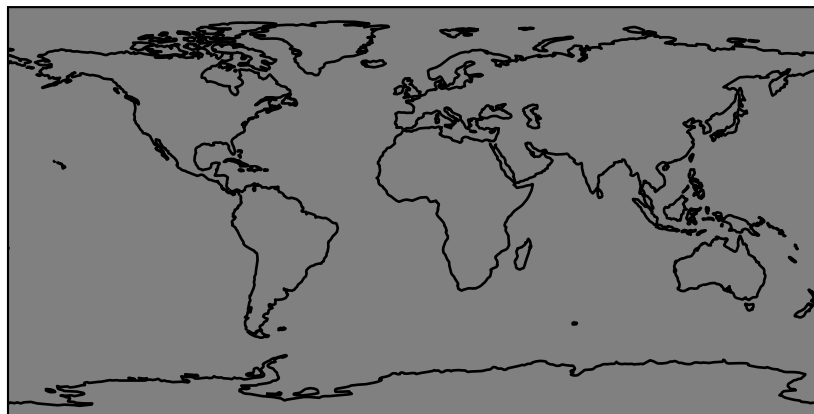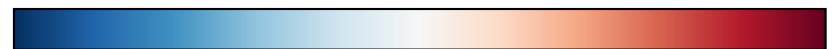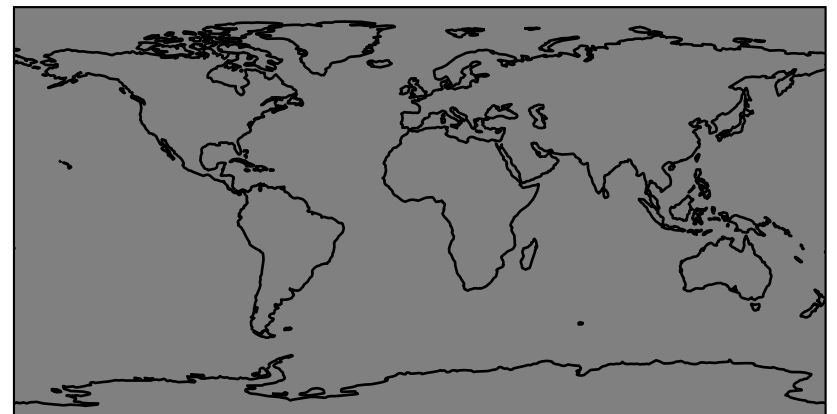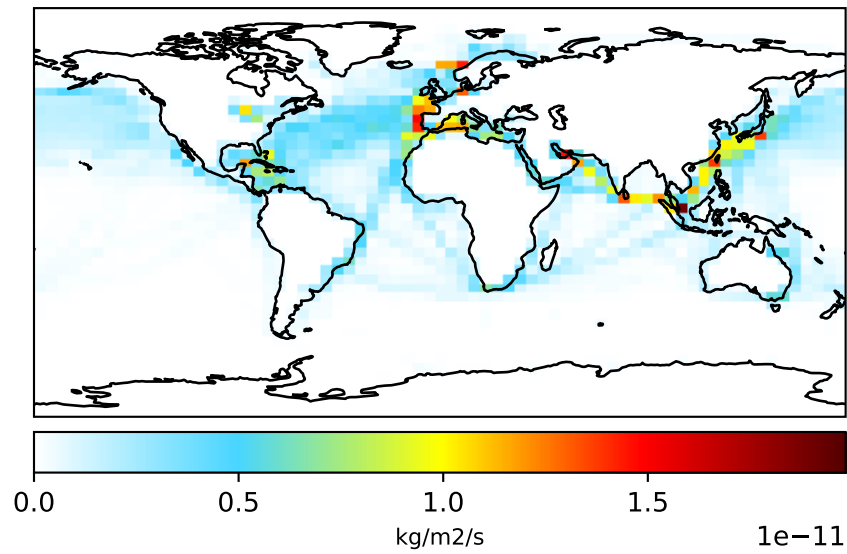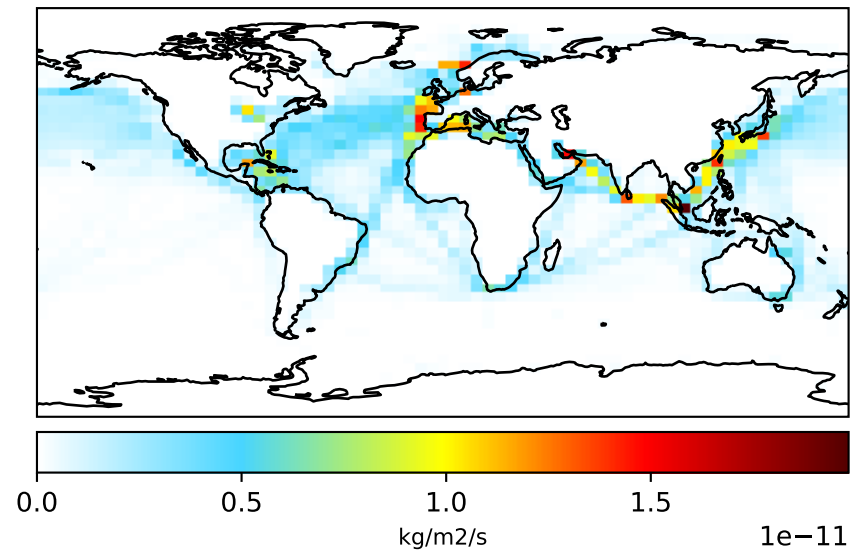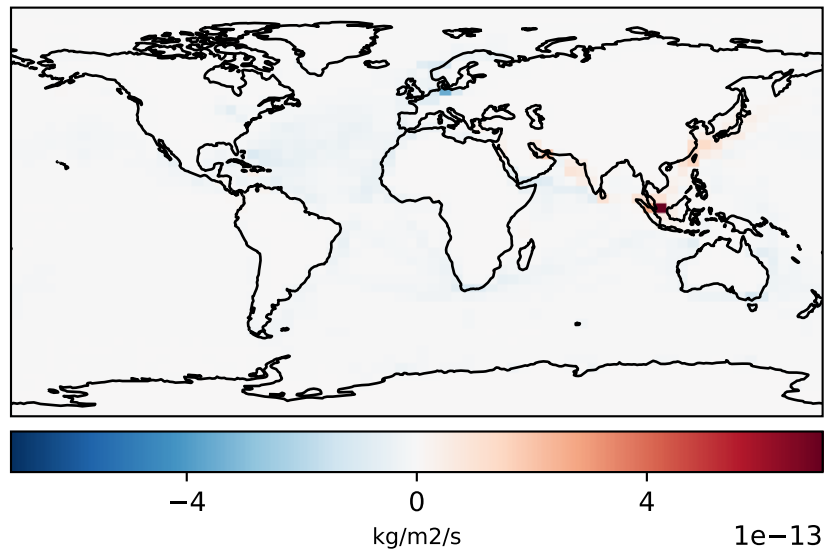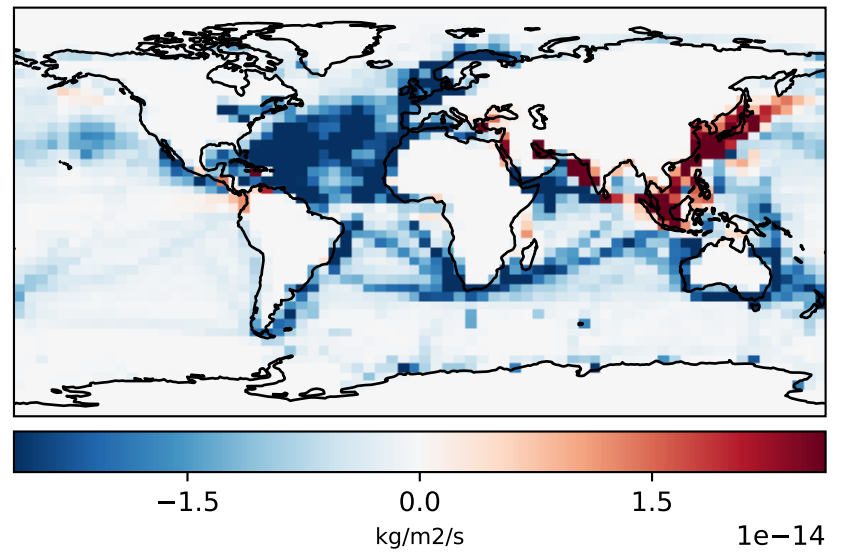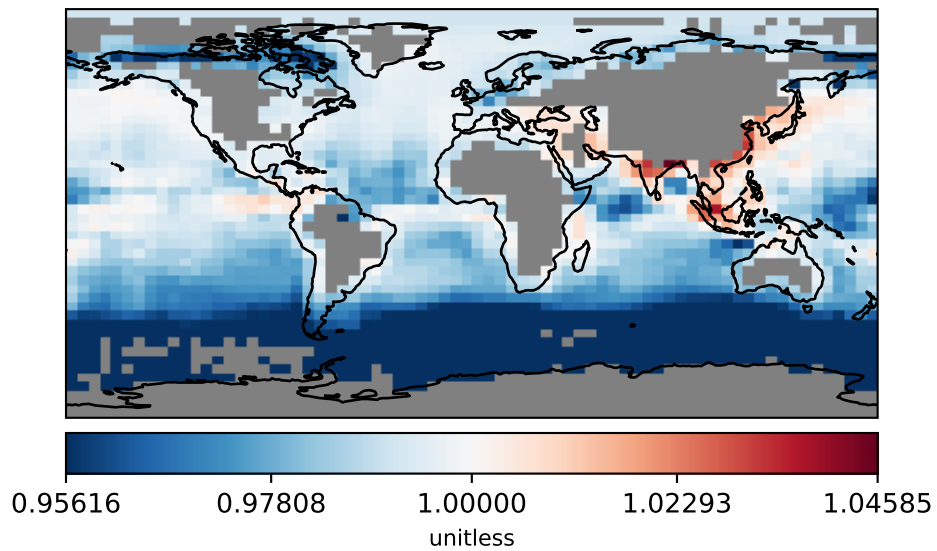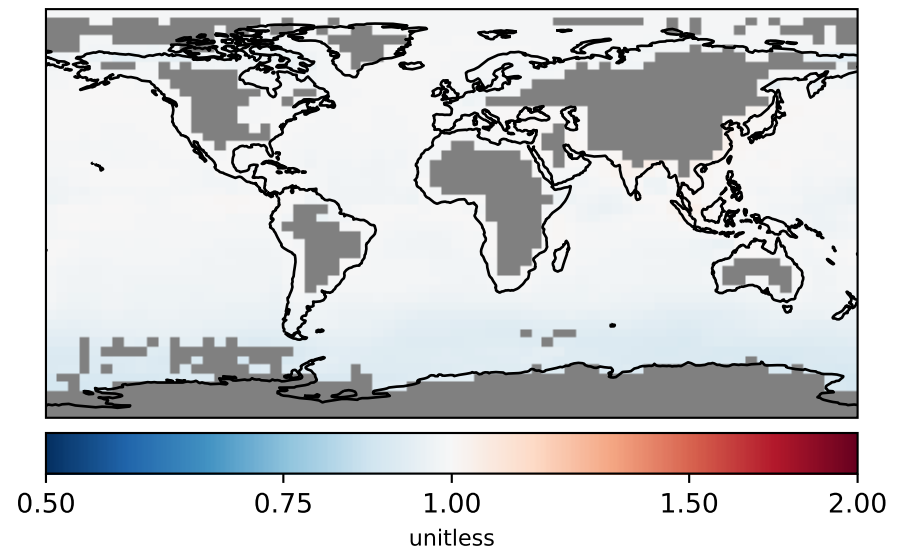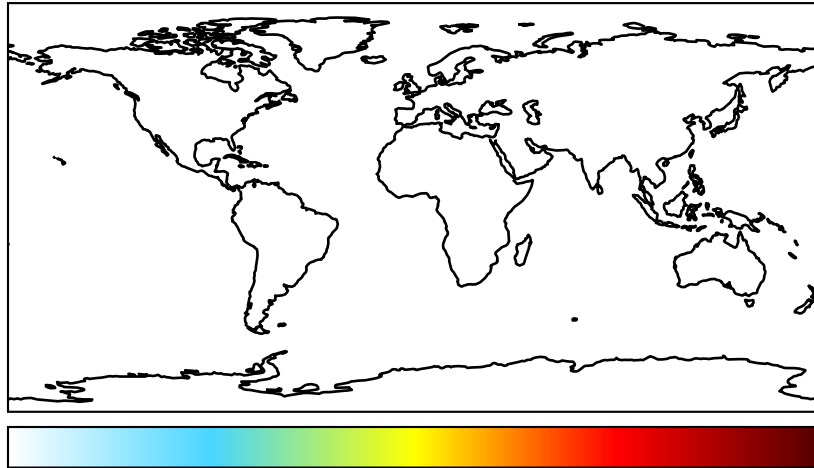
Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

unitless

EmisMEK_Ship (Oct2019)

gcc-14.3.0-rc.0 (Ref) 4.0x5.0	gcc-14.4.0-rc.0 (Dev) 4.0x5.0

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Undefined throughout domain
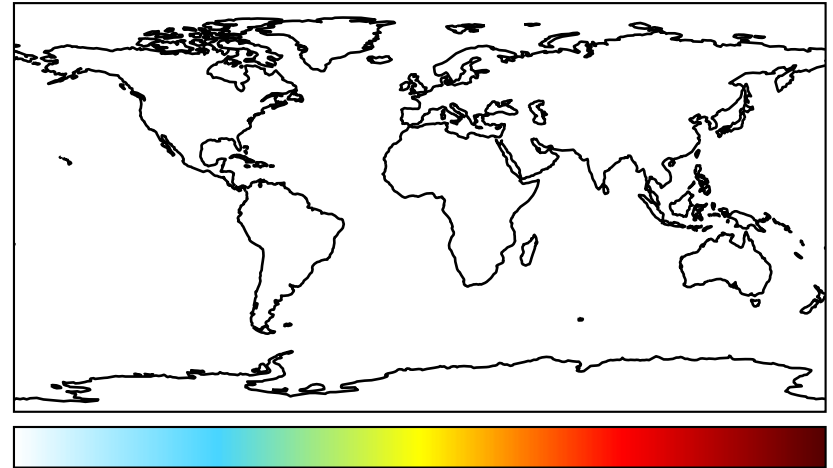unitless

Undefined throughout domain
unitless

EmisMOH_Ship (Oct2019)
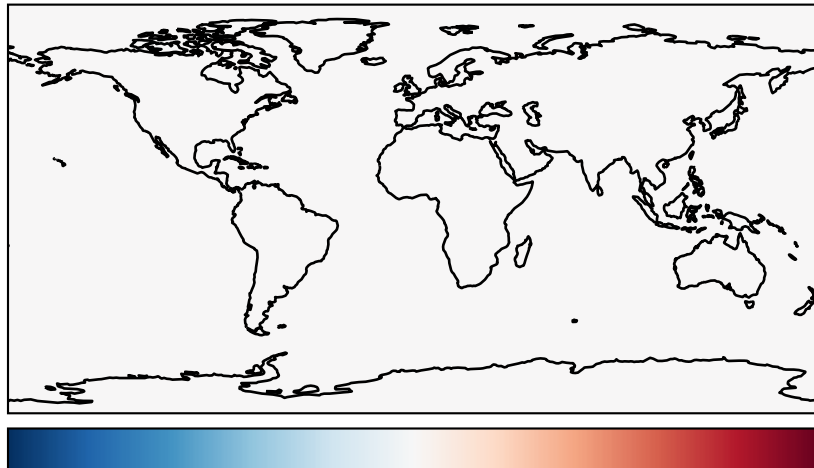

gcc-14.3.0-rc.0 (Ref)
4.0x5.0

Zero throughout domain
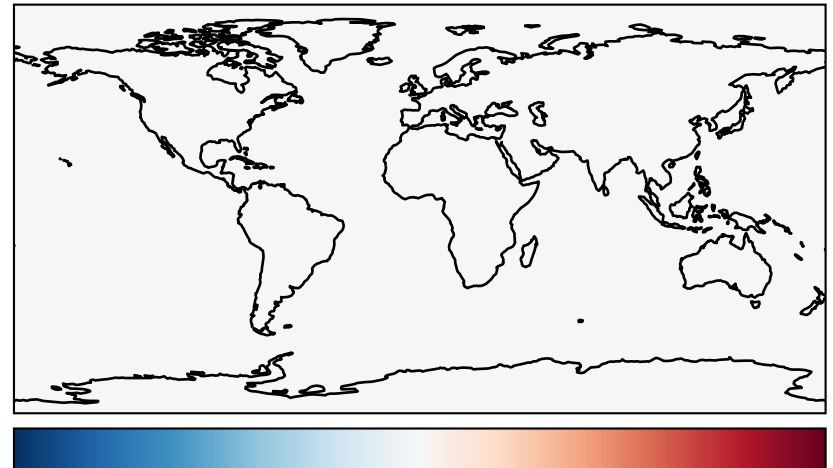kg/m2/s

gcc-14.4.0-rc.0 (Dev)
4.0x5.0

Zero throughout domain
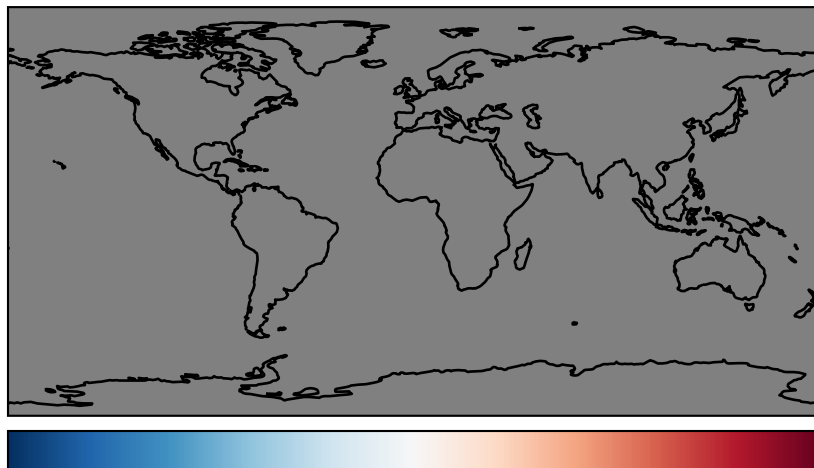kg/m2/s

Difference
Dev - Ref, Dynamic Range

Zero throughout domain
kg/m2/s

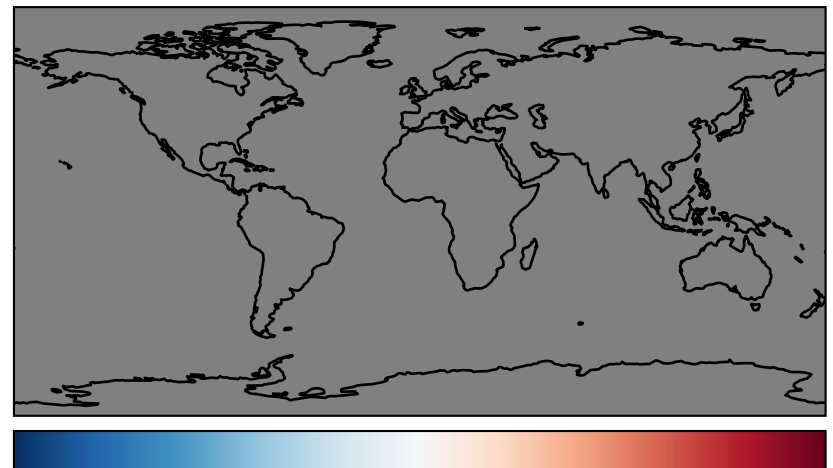Difference
Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Ratio
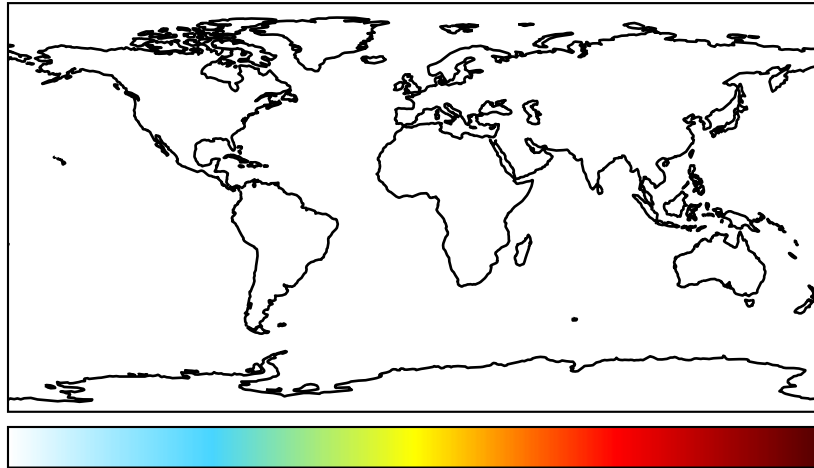Dev/Ref, Dynamic Range

Undefined throughout domain
unitless

Ratio
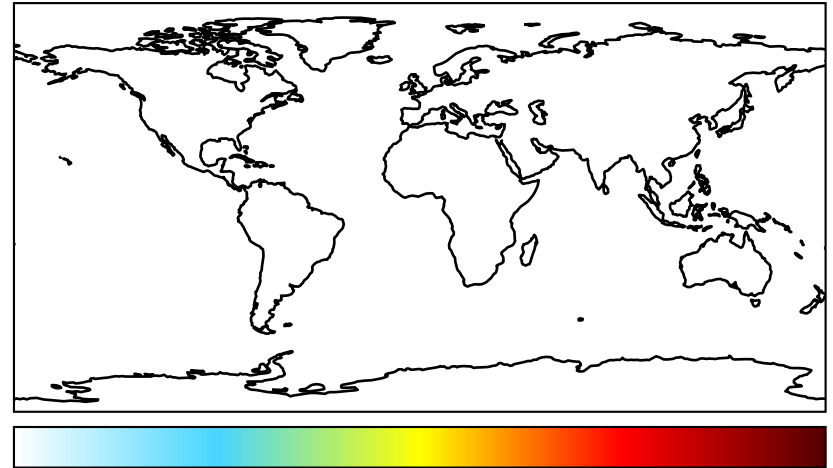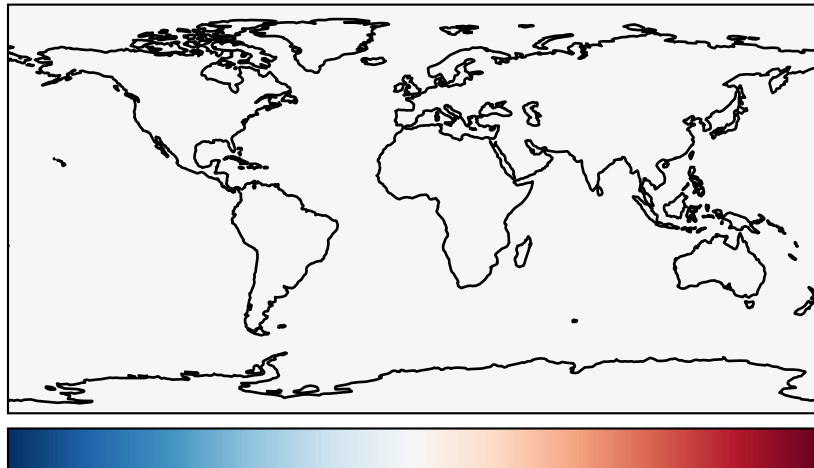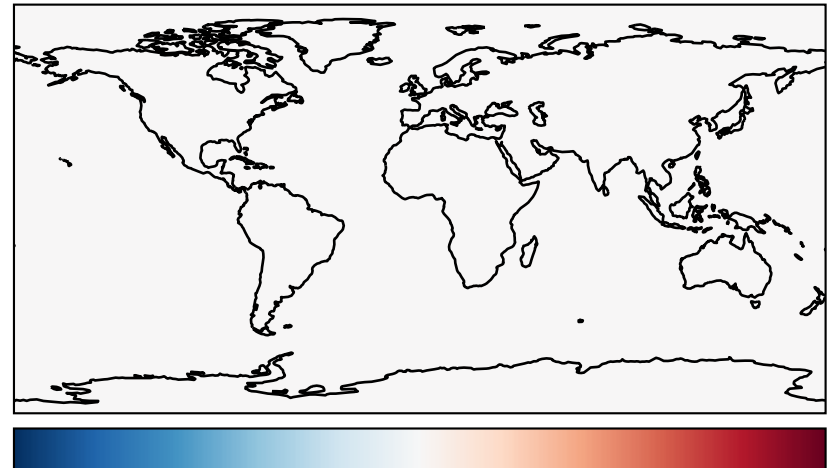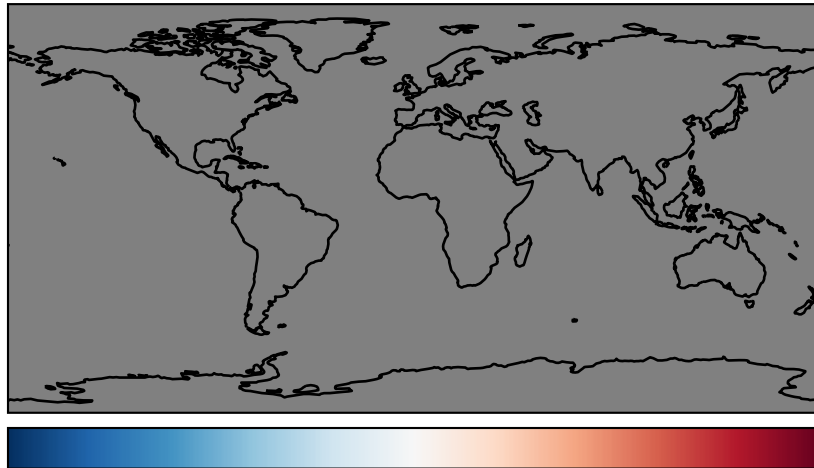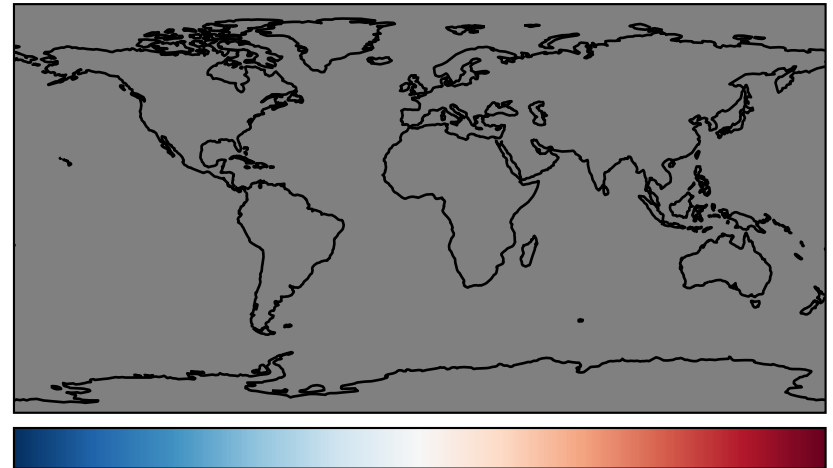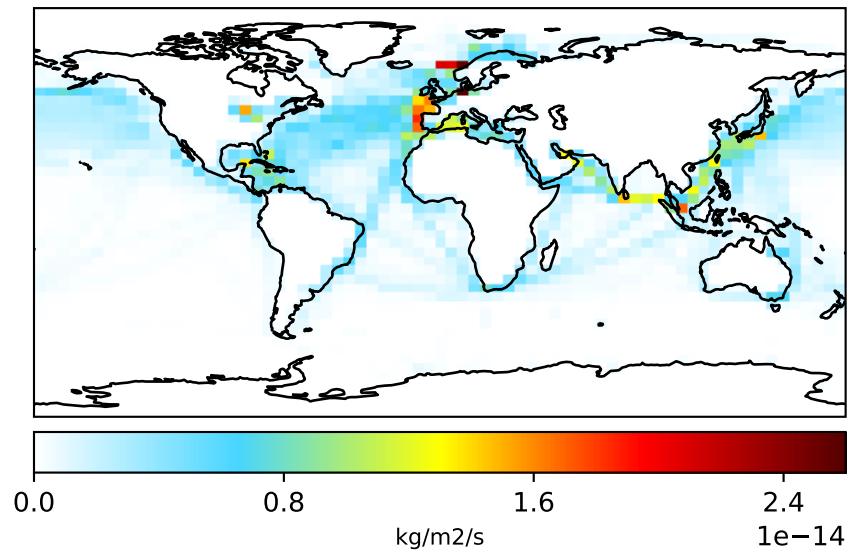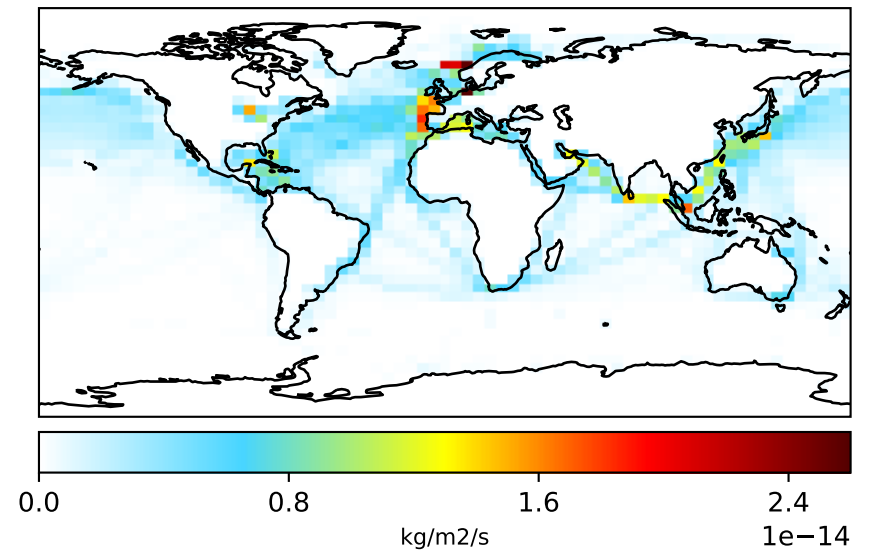Dev/Ref, Fixed Range

Undefined throughout domain
unitless
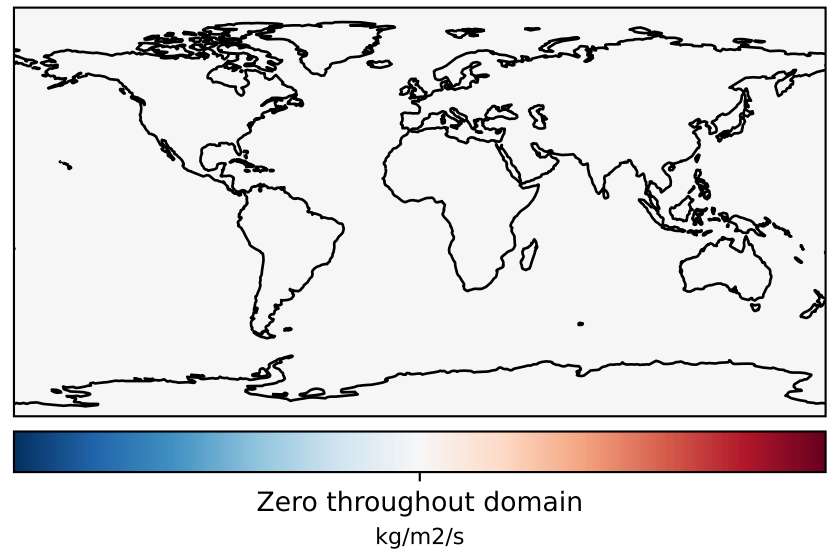
EmisNH3_Ship (Oct2019)

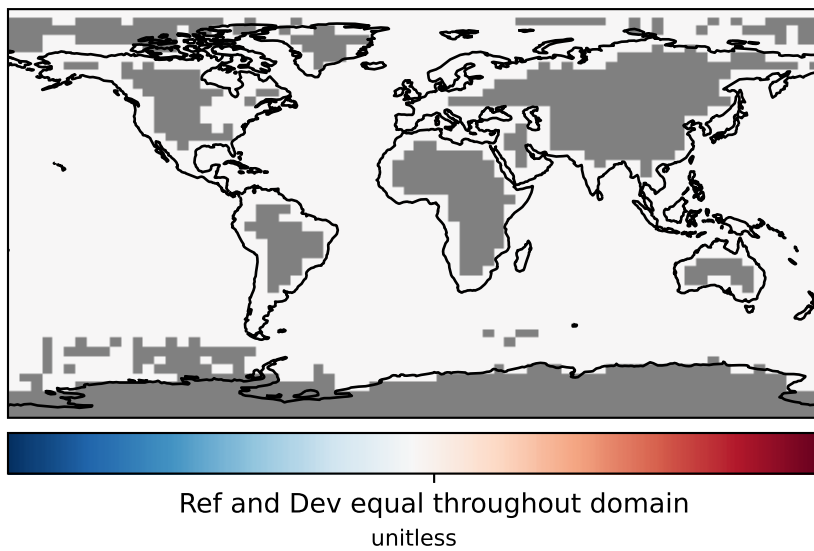gcc-14.3.0-rc.0 (Ref)
4.0x5.0

gcc-14.4.0-rc.0 (Dev)
4.0x5.0

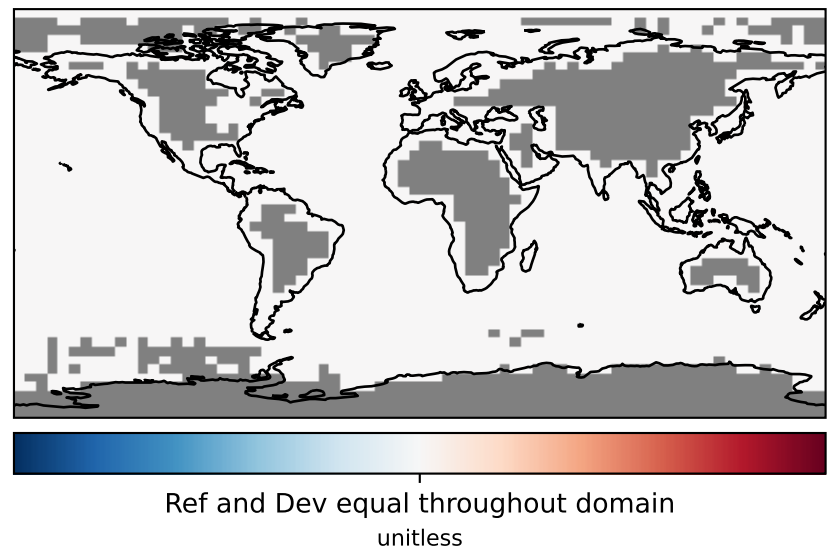kg/m2/s

kg/m2/s

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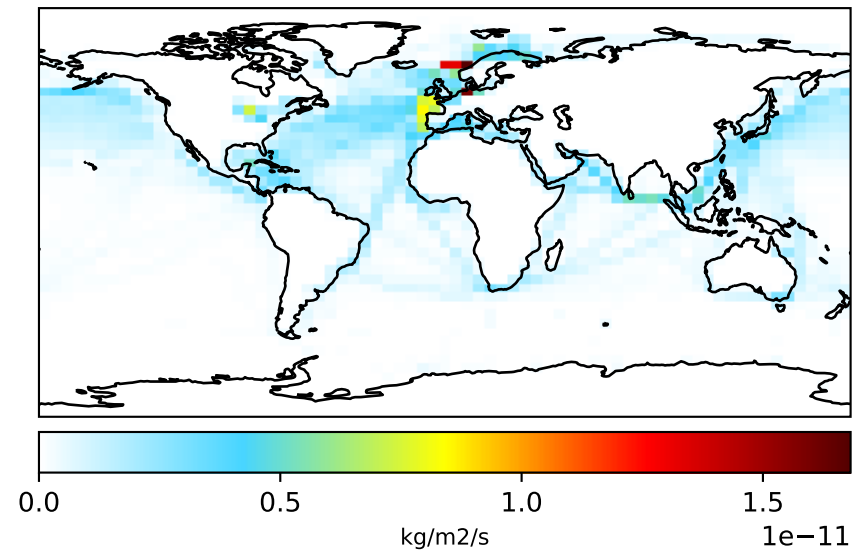
Difference
Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

EmisNO2_Ship (Oct2019)

EmisNO_Ship (Oct2019)

EmisO3_Ship (Oct2019)

gcc-14.3.0-rc.0 (Ref)
4.0x5.0

gcc-14.4.0-rc.0 (Dev)
4.0x5.0

Difference
Dev - Ref, Dynamic Range

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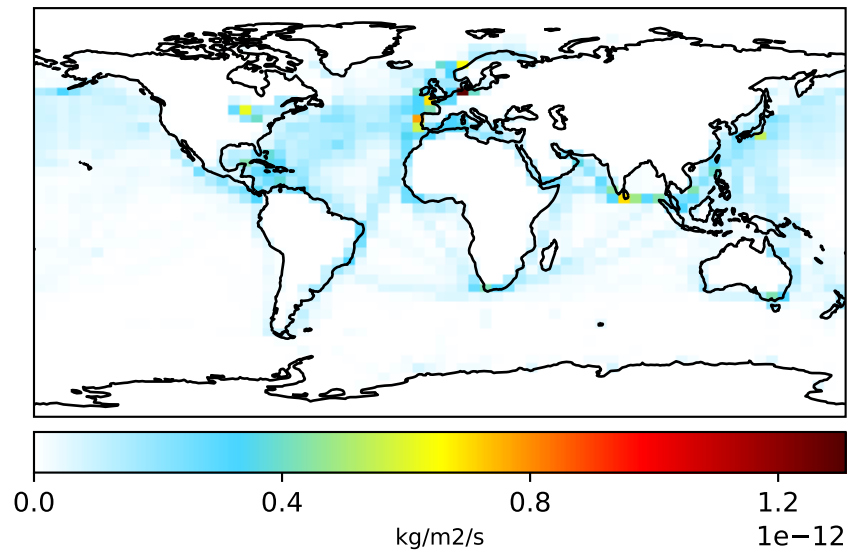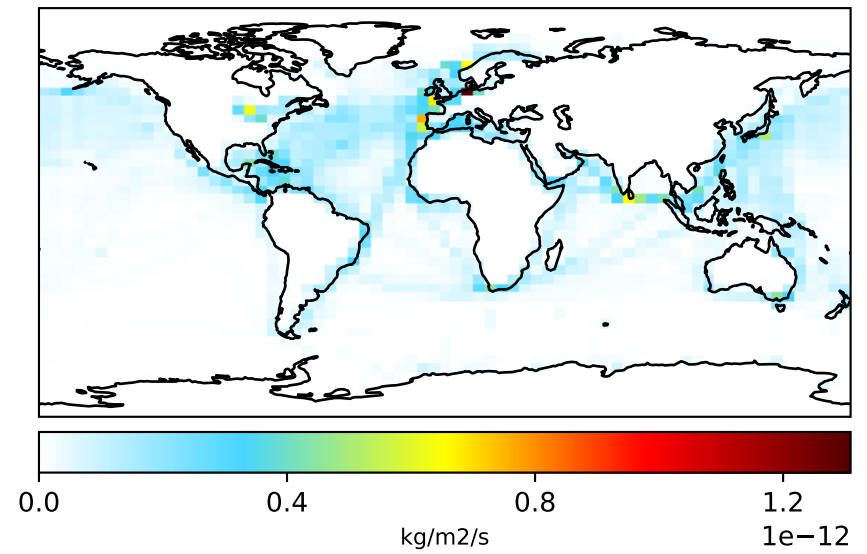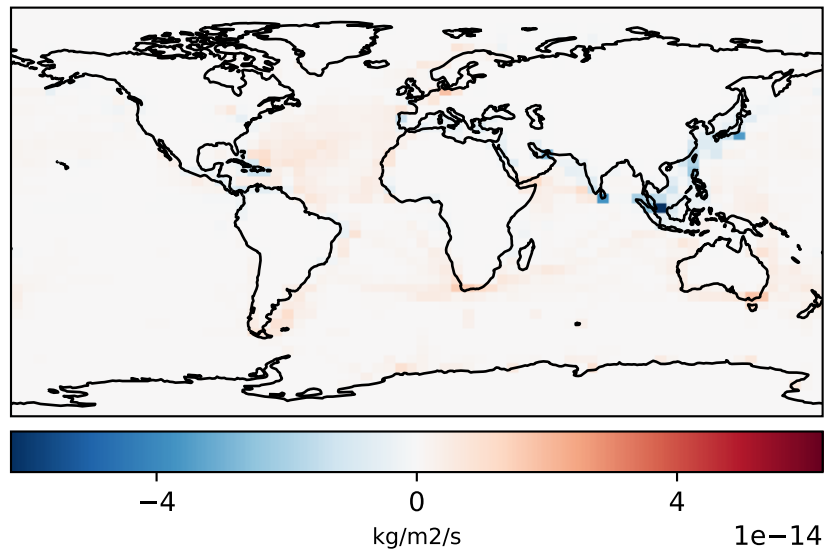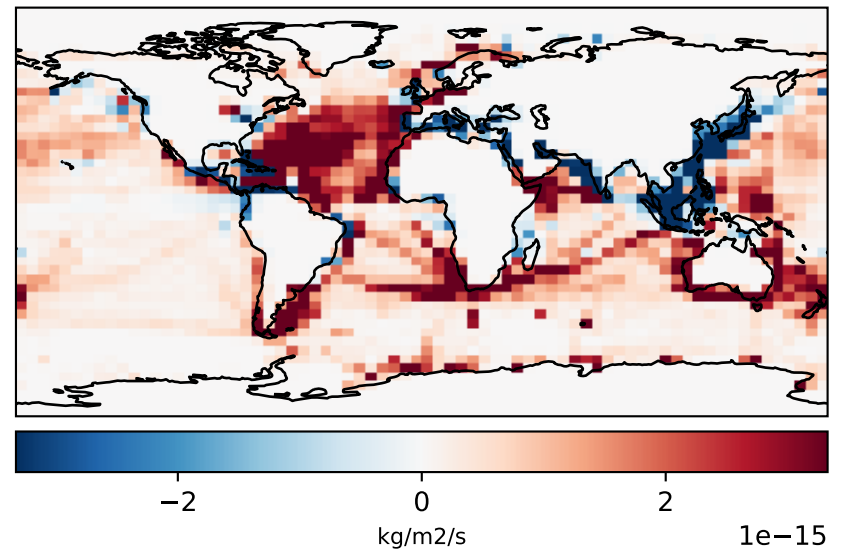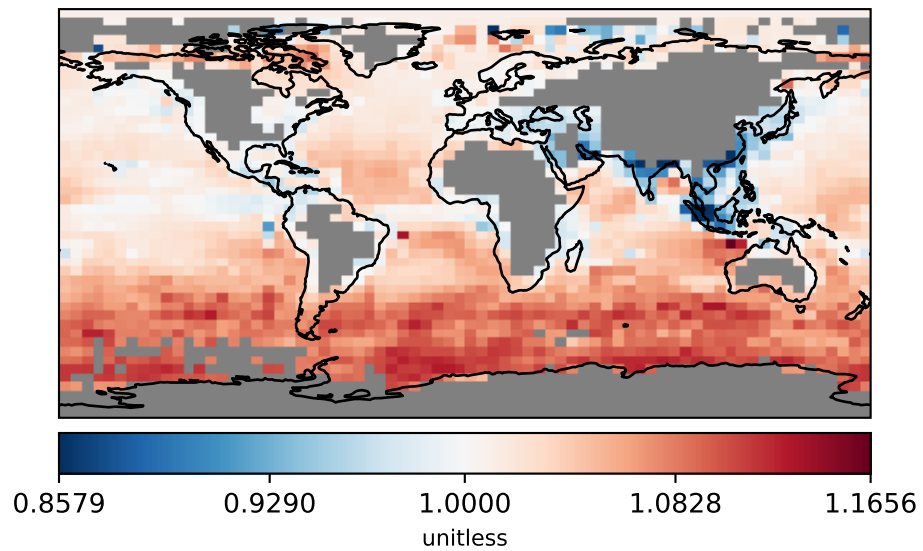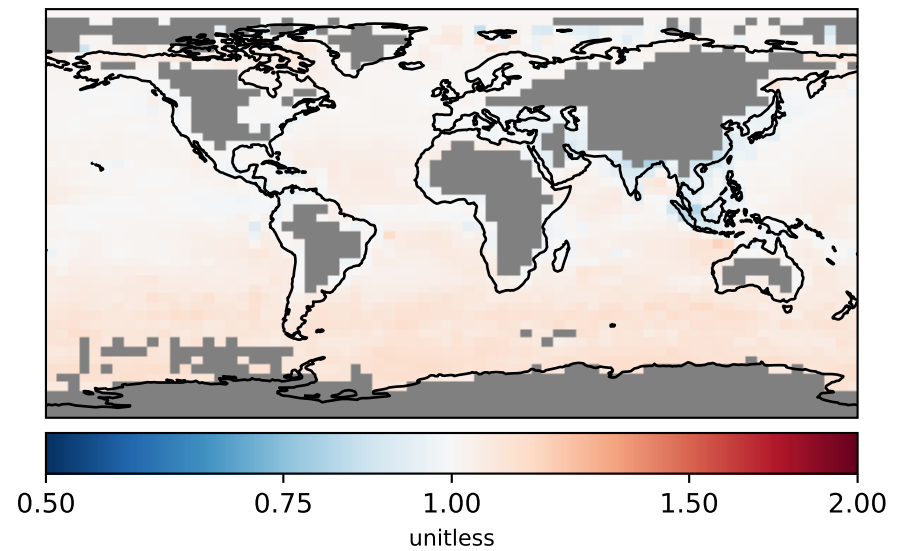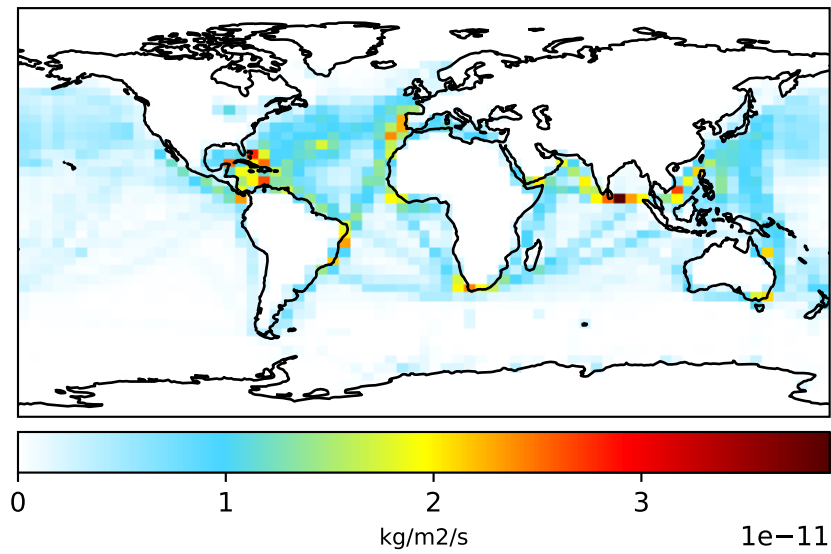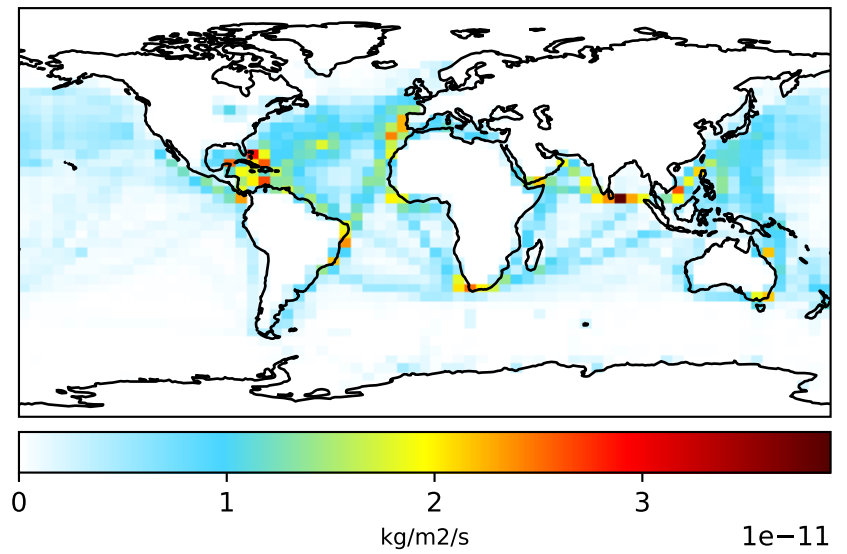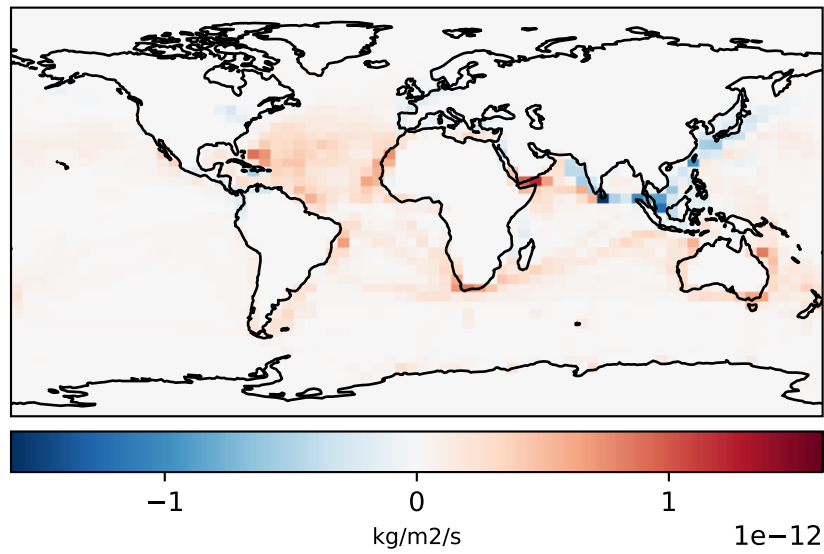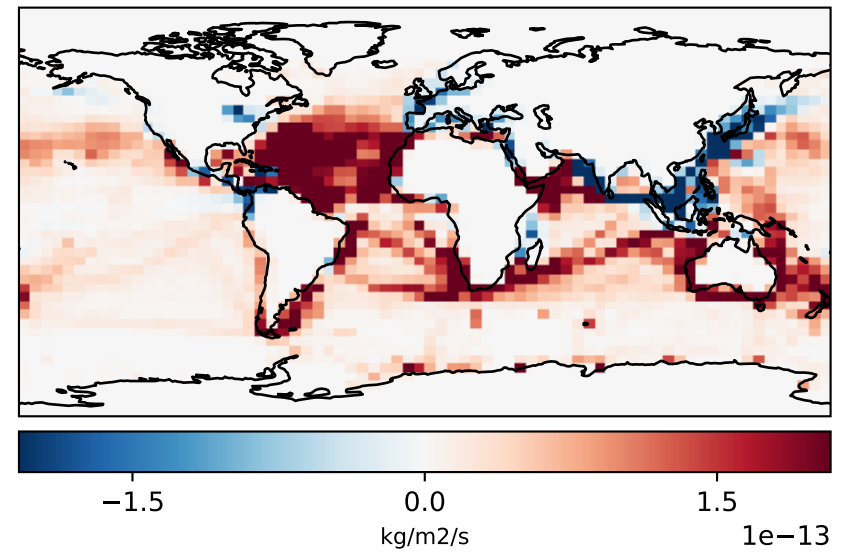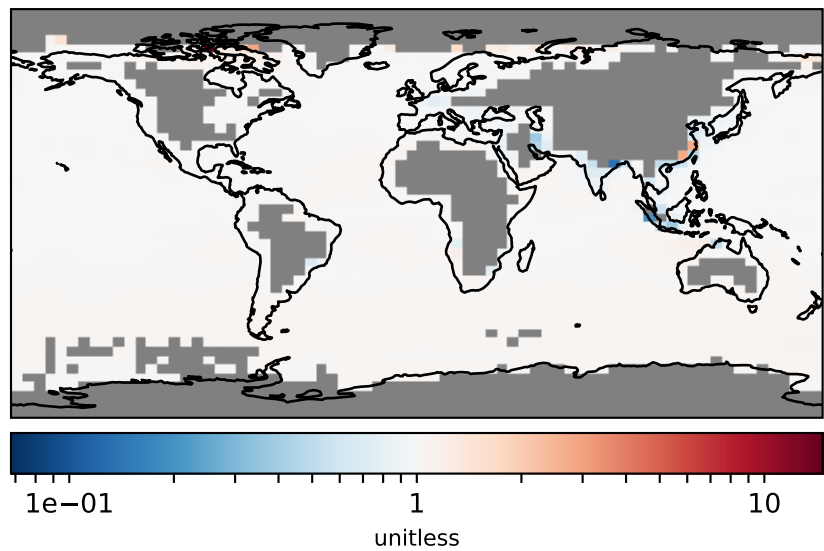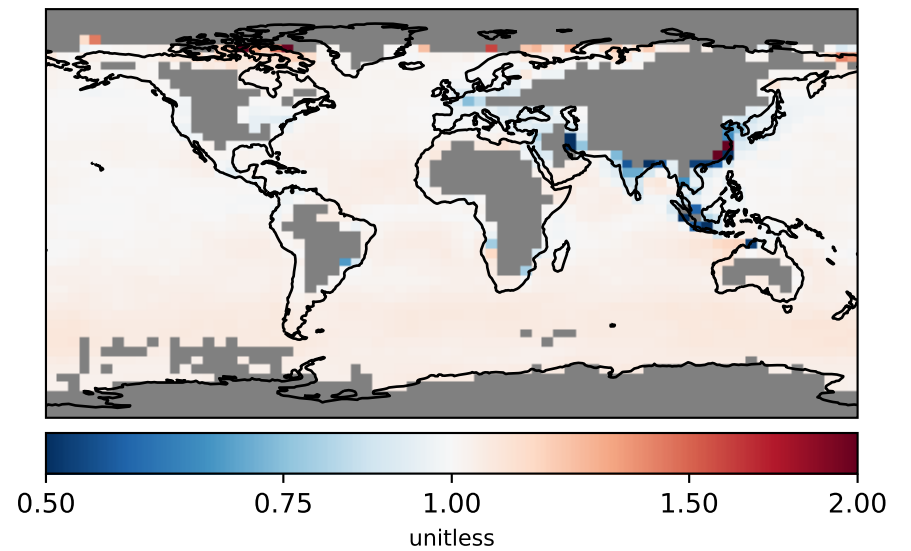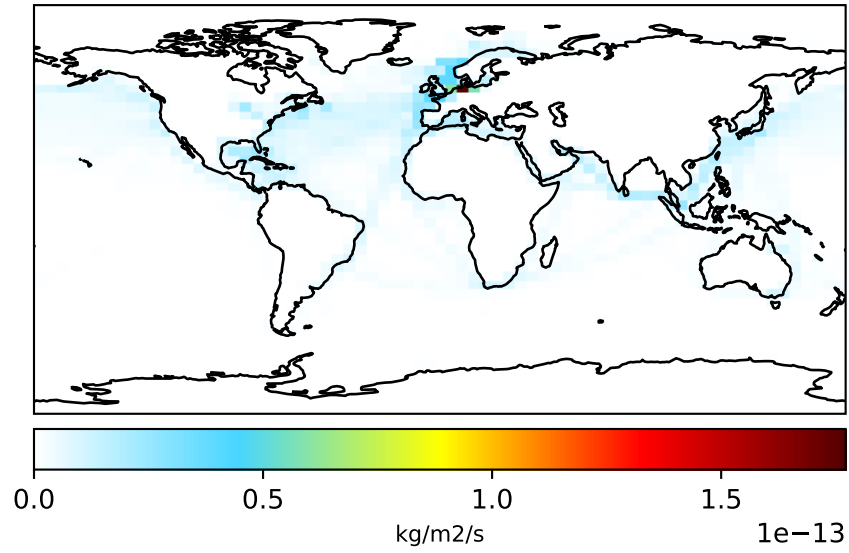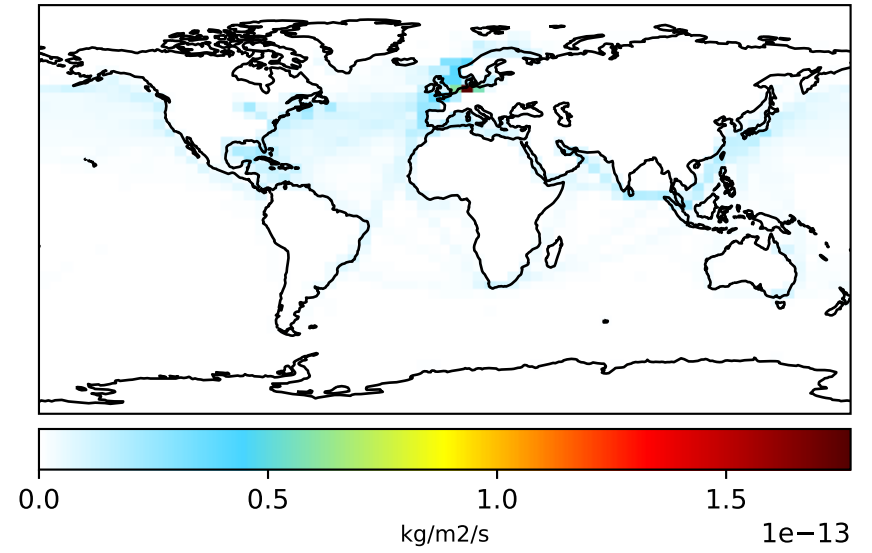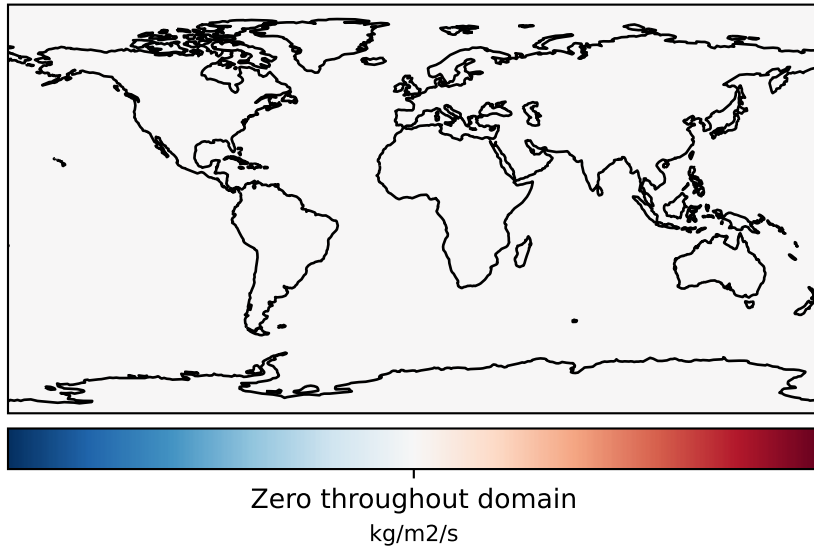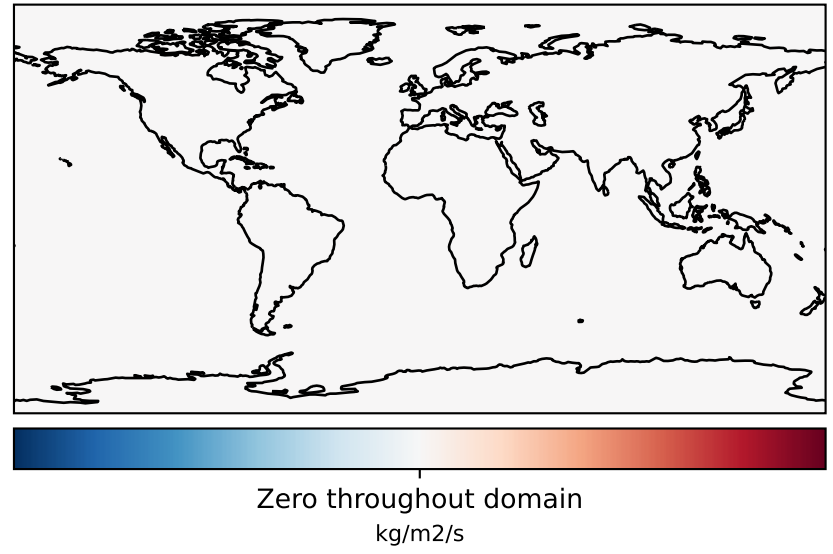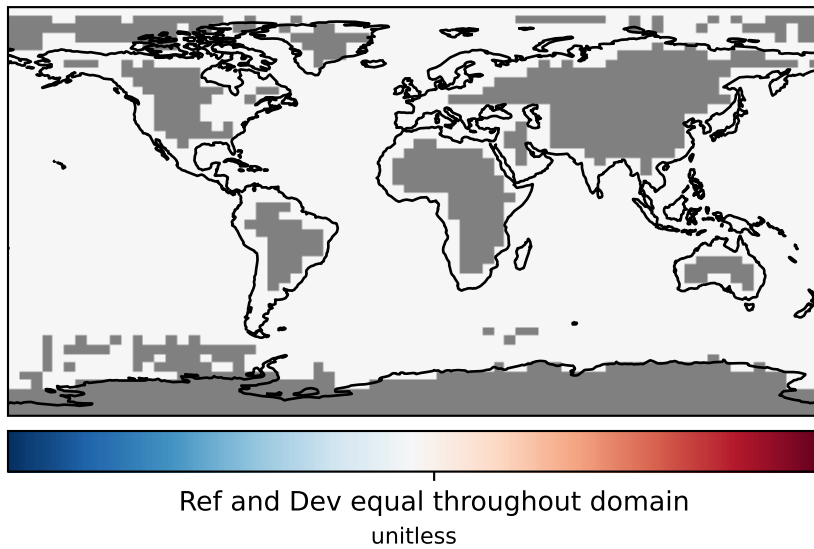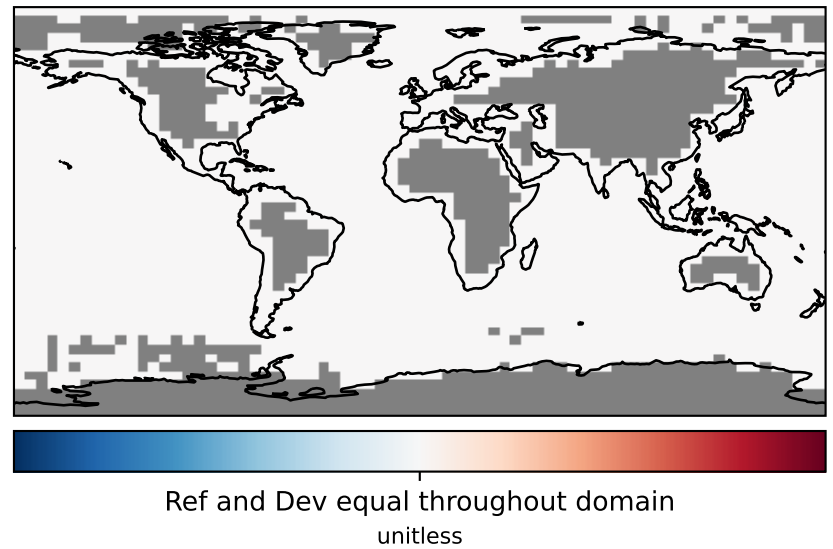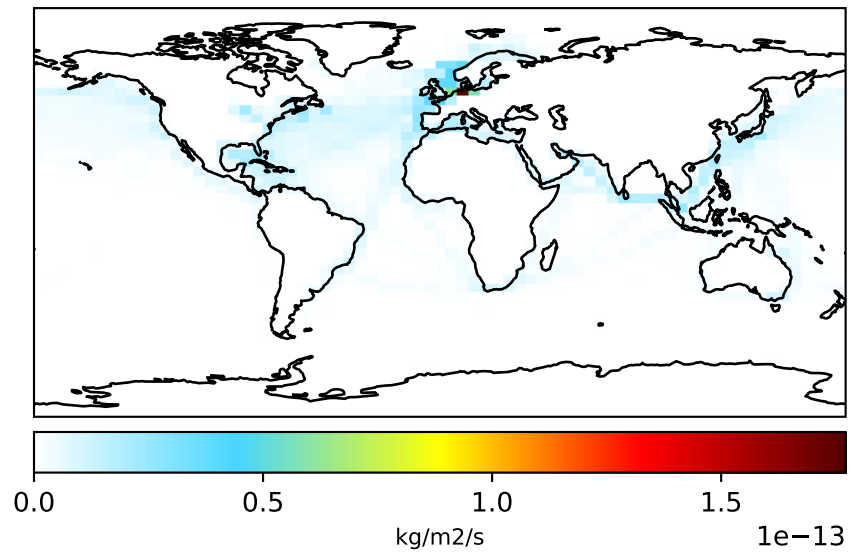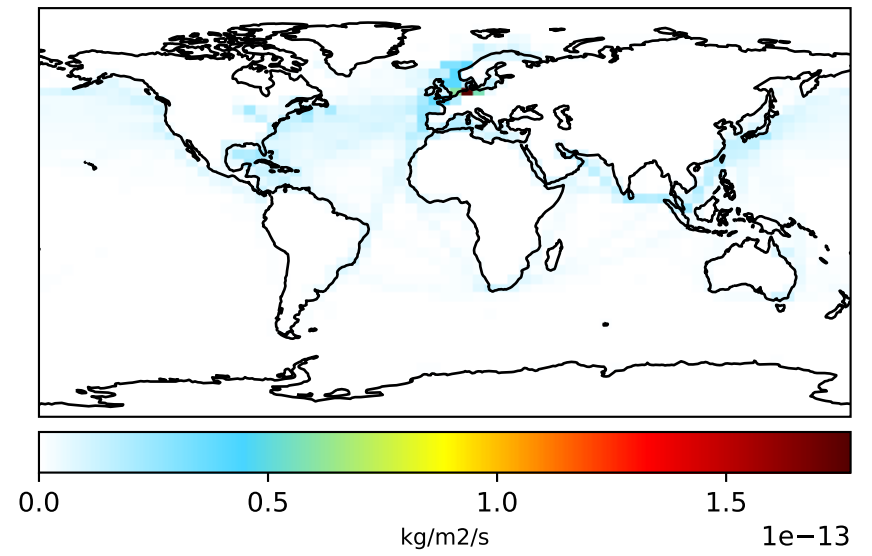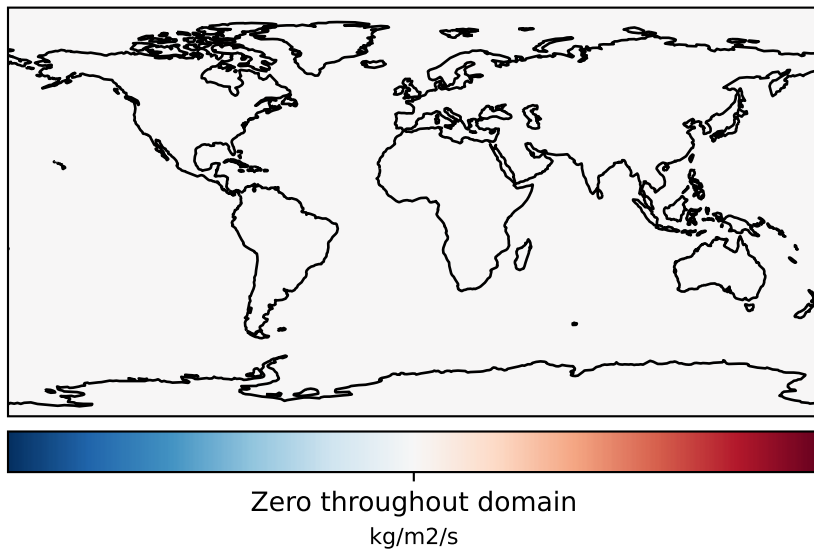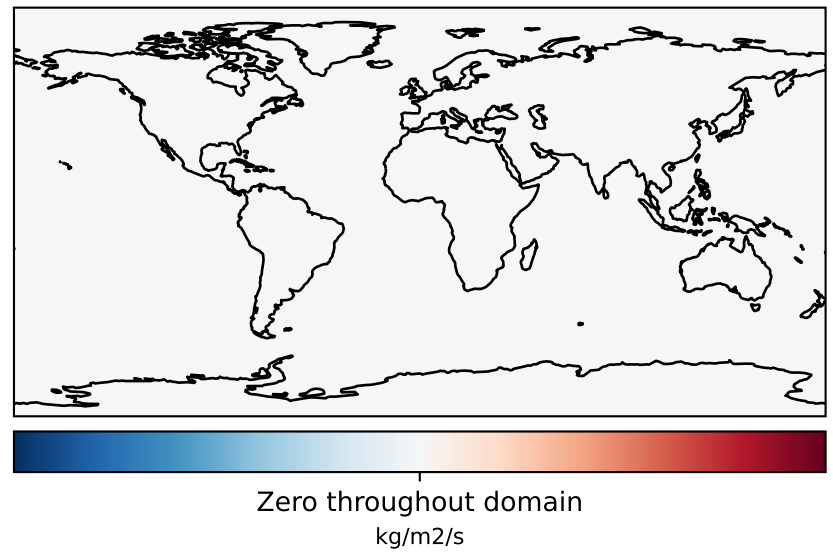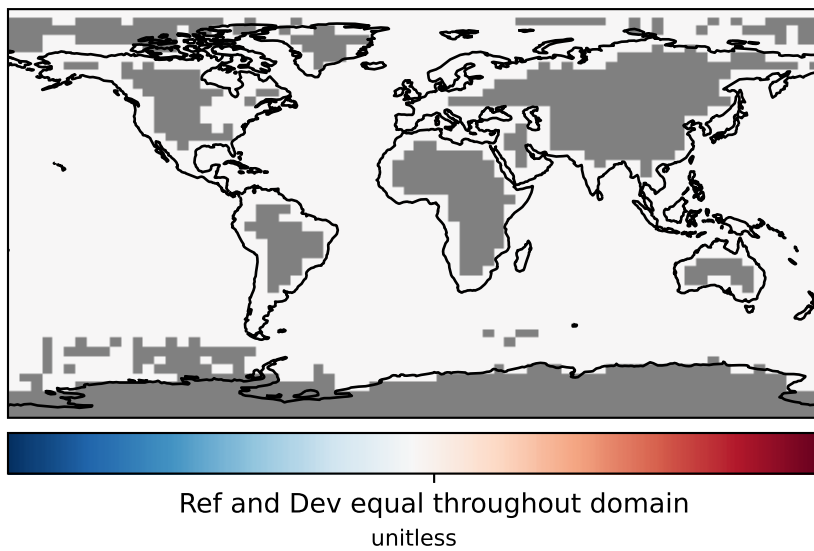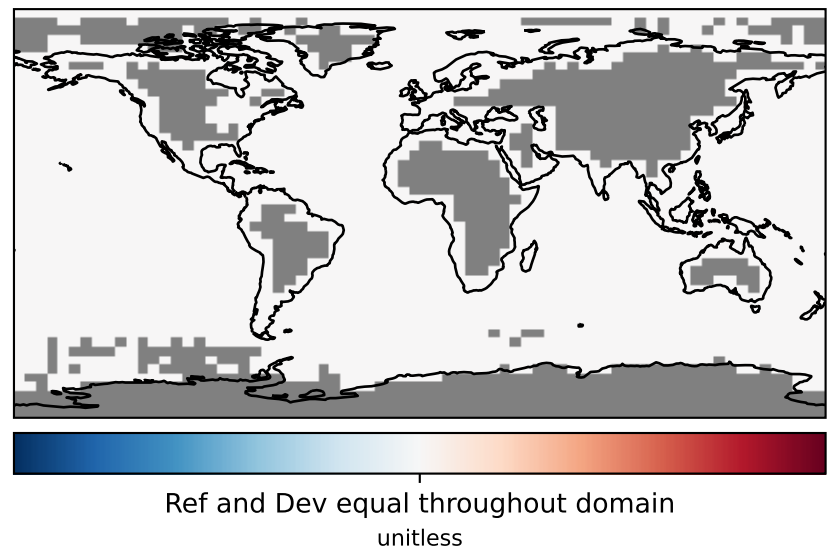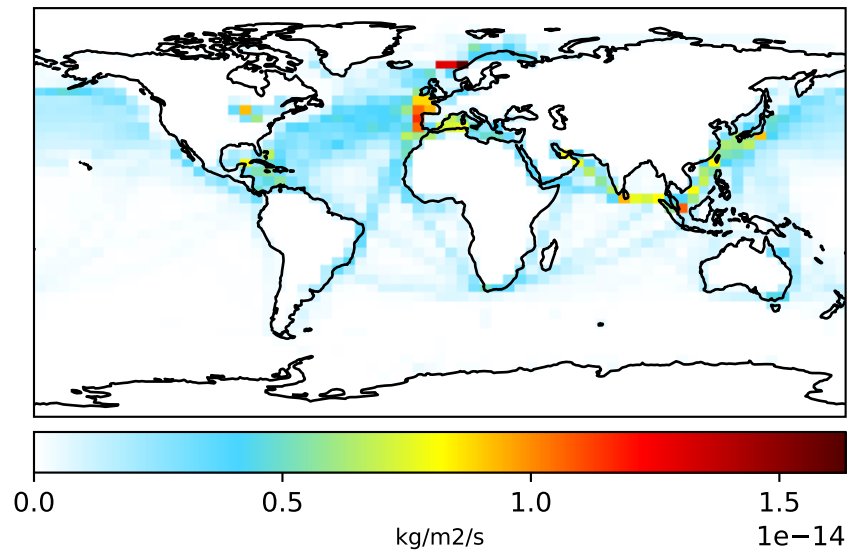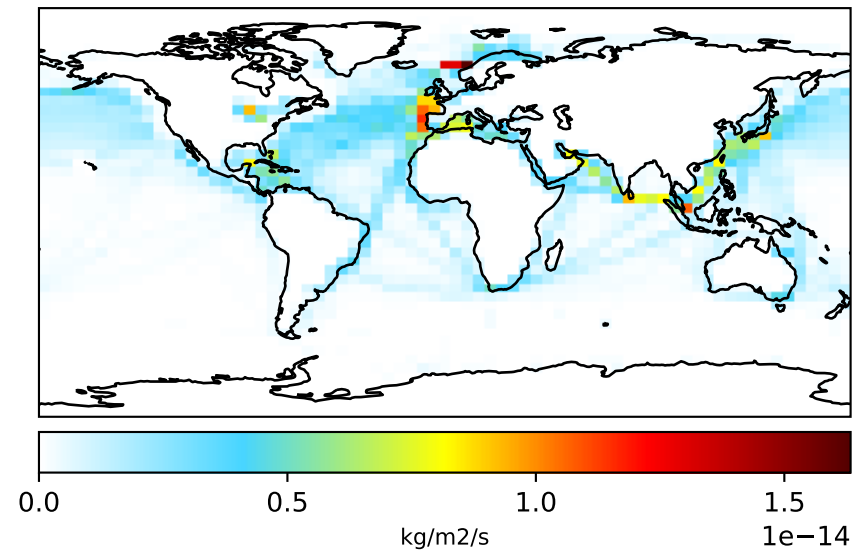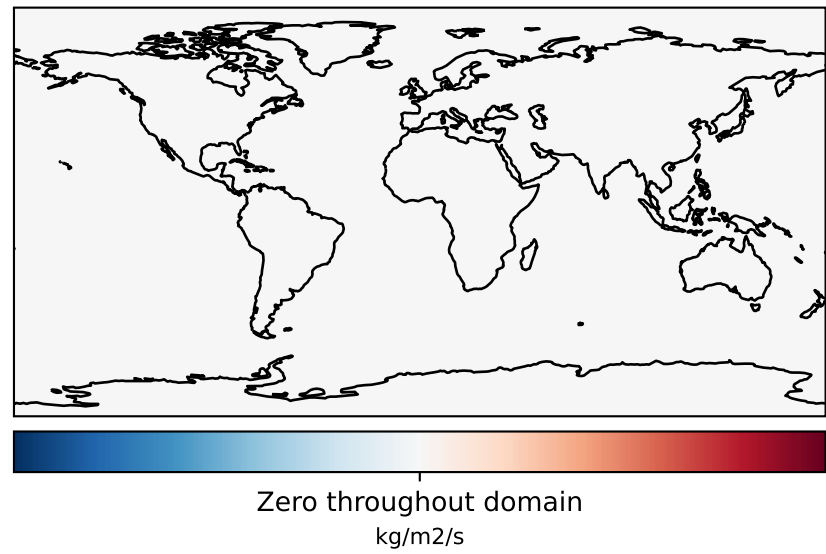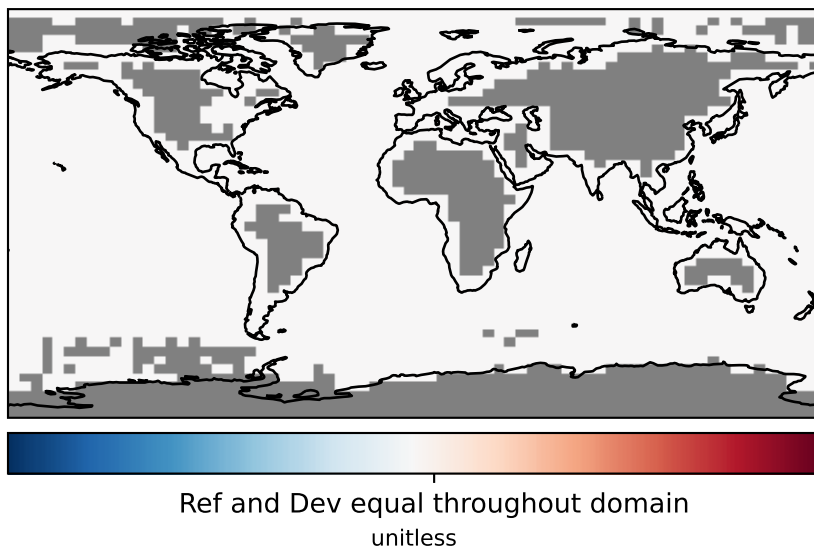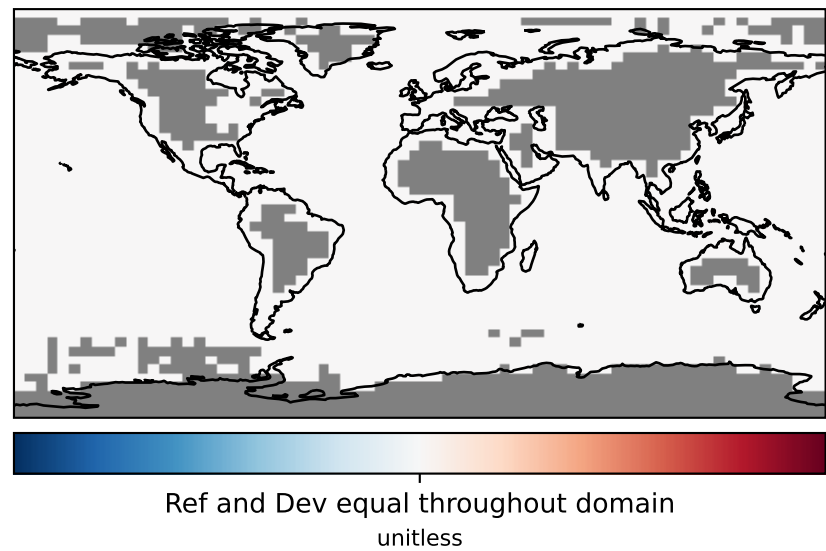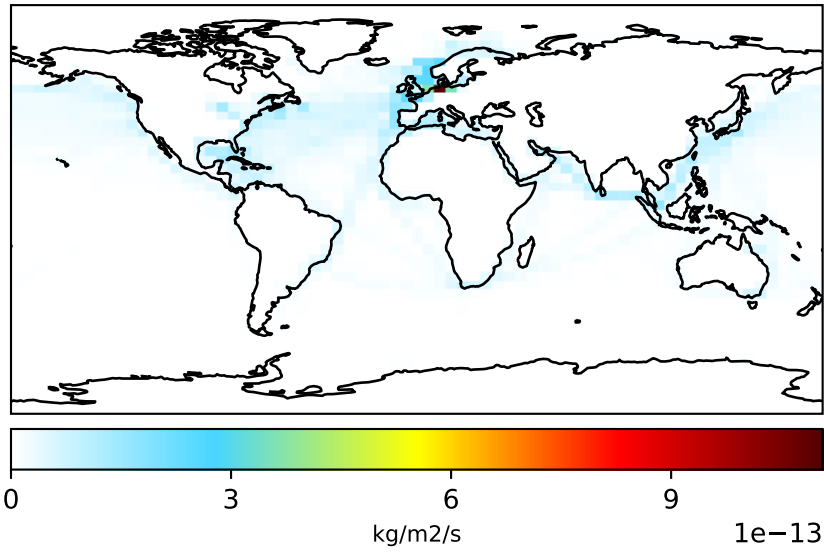Dev - Ref, Restricted Range [5%,95%]
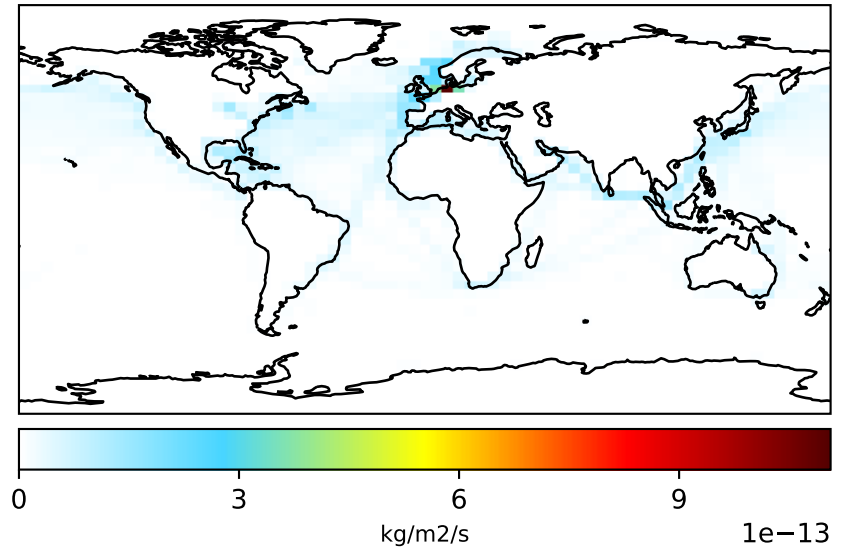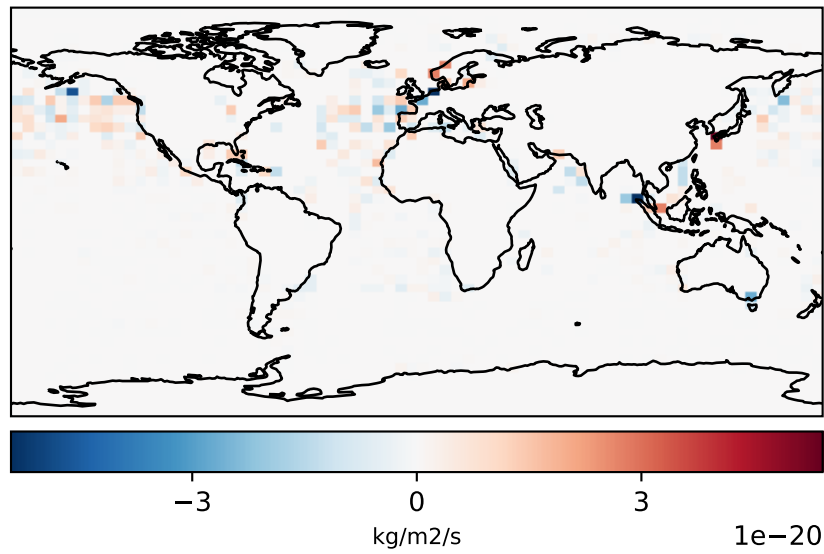
Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

EmisOCPI_Ship (Oct2019)

| gcc-14.3.0-rc.0 (Ref) | gcc-14.4.0-rc.0 (Dev) |
| 4.0x5.0 | 4.0x5.0 |

kg/m2/s

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

EmisOCPO_Ship (Oct2019)

gcc-14.3.0-rc.0 (Ref)
4.0x5.0

gcc-14.4.0-rc.0 (Dev)
4.0x5.0

kg/m2/s

kg/m2/s

Difference
Dev - Ref, Dynamic Range

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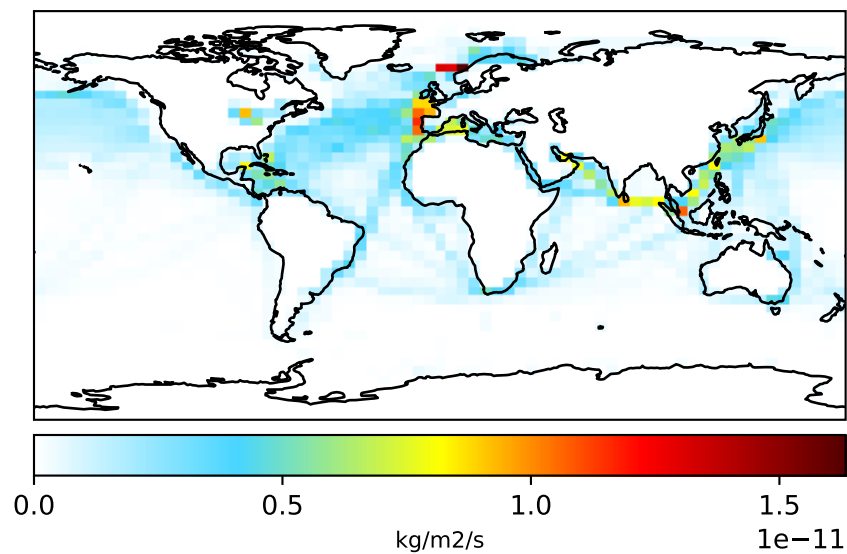Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
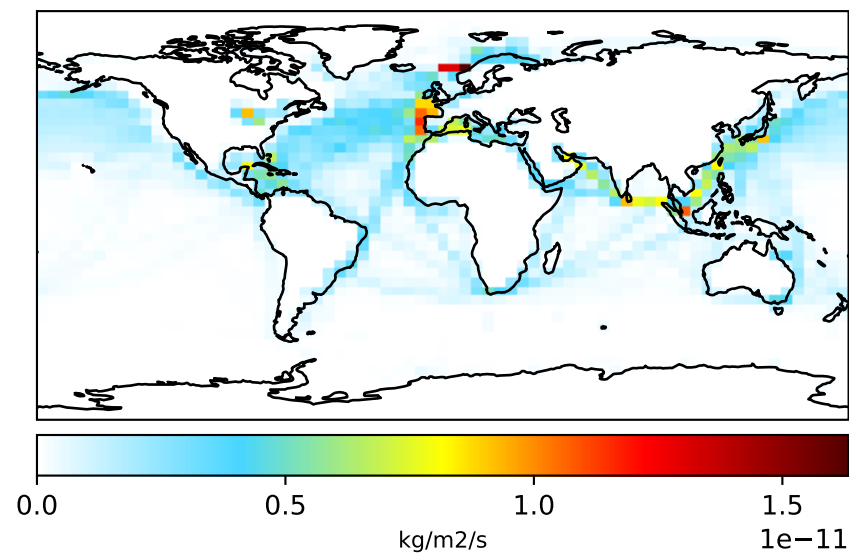unitless

Ref and Dev equal throughout domain
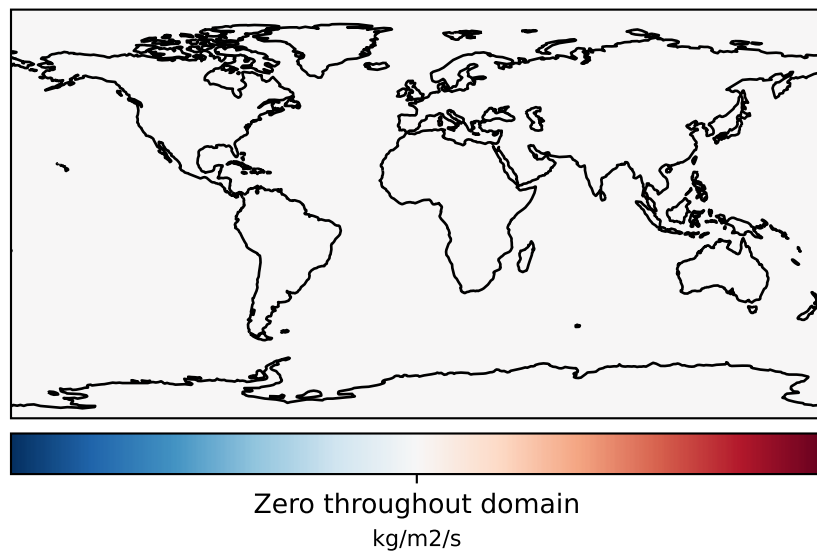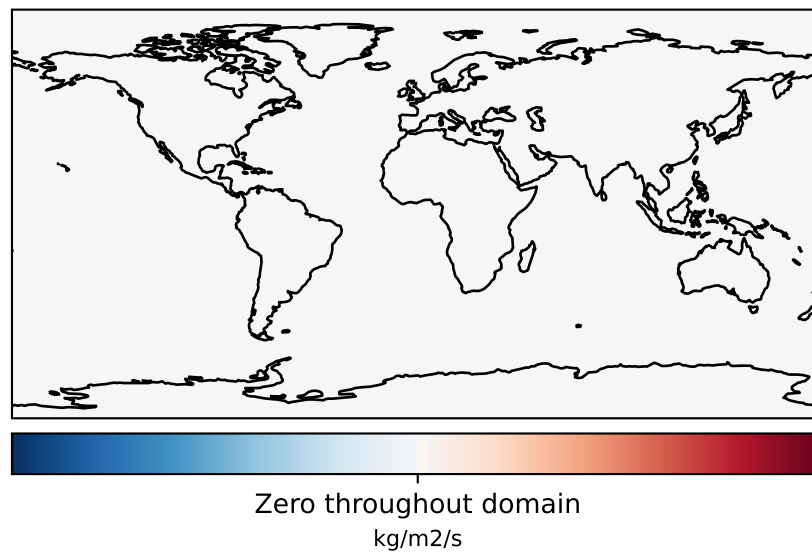unitless

EmispFe_Ship (Oct2019)

gcc-14.3.0-rc.0 (Ref)
4.0x5.0

gcc-14.4.0-rc.0 (Dev)
4.0x5.0

kg/m2/s

Difference
Dev - Ref, Dynamic Range

Difference
Dev - Ref, Restricted Range [5%,95%]
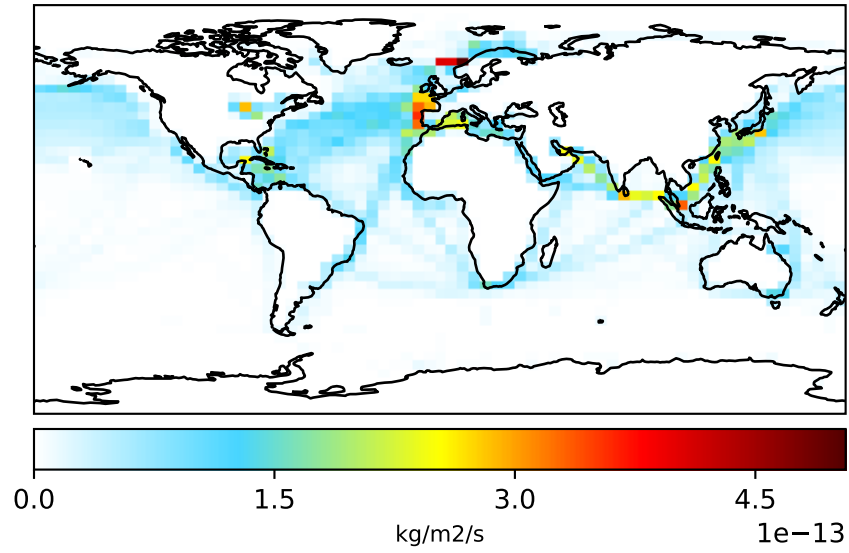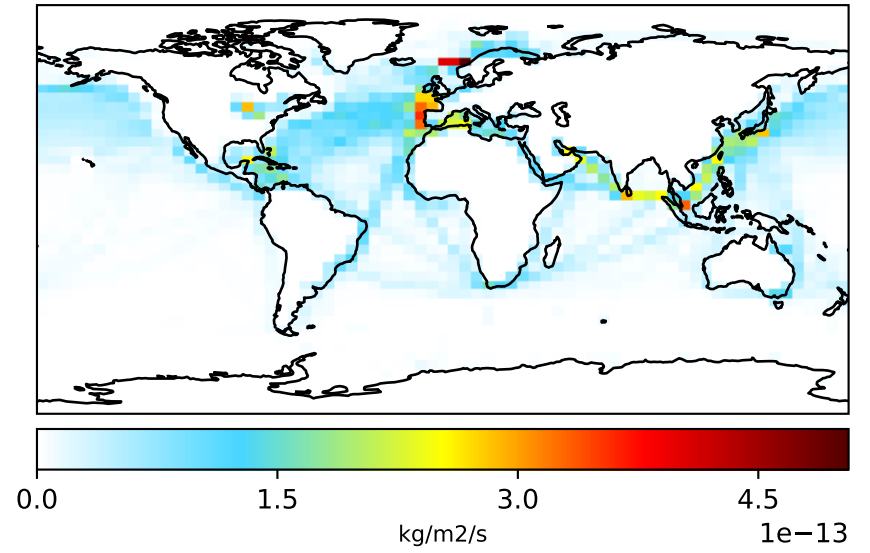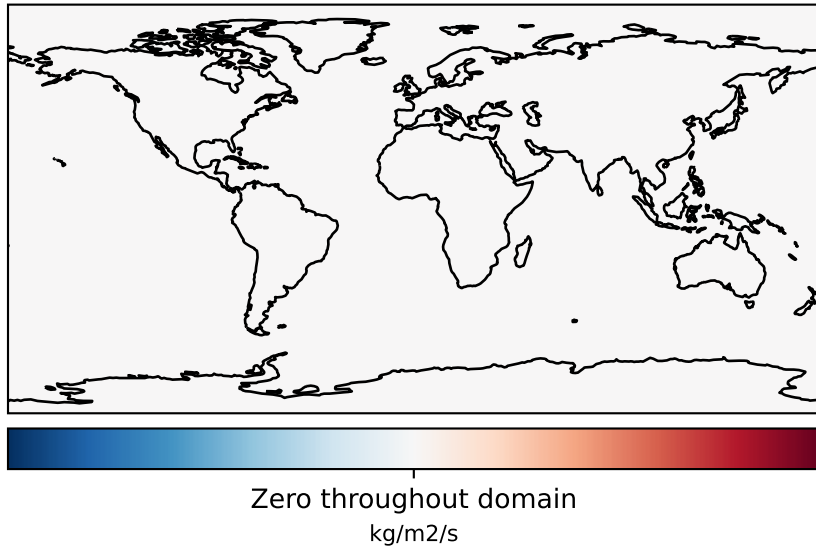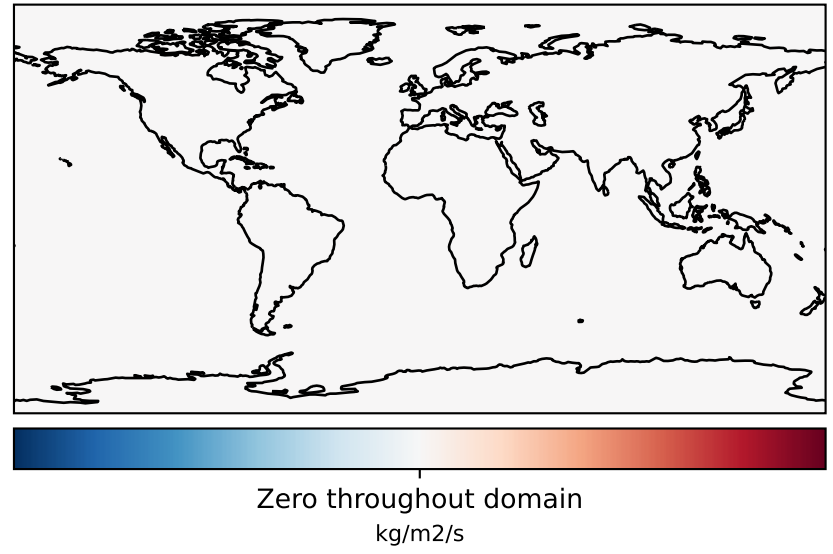
Zero throughout domain
kg/m2/s

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

EmisPRPE_Ship (Oct2019)

EmisSO2_Ship (Oct2019)

EmisSO4_Ship (Oct2019)

EmisSOAP_Ship (Oct2019)

gcc-14.3.0-rc.0 (Ref)
4.0x5.0
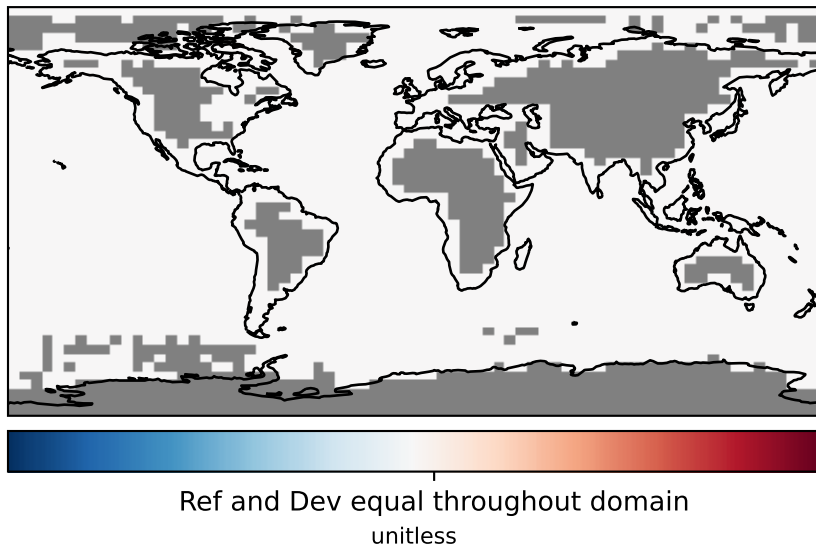
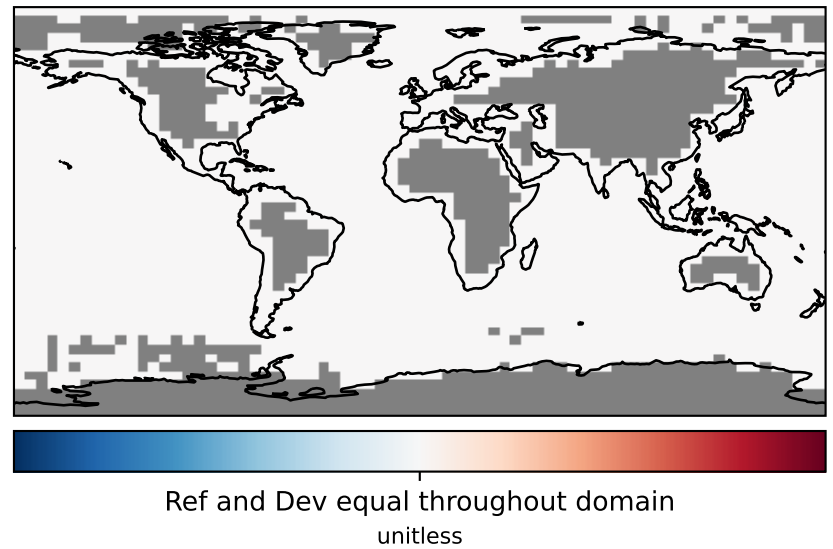gcc-14.4.0-rc.0 (Dev)
4.0x5.0

kg/m2/s

Difference
Dev - Ref, Dynamic Range

Difference
Dev - Ref, Restricted Range [5%,95%]
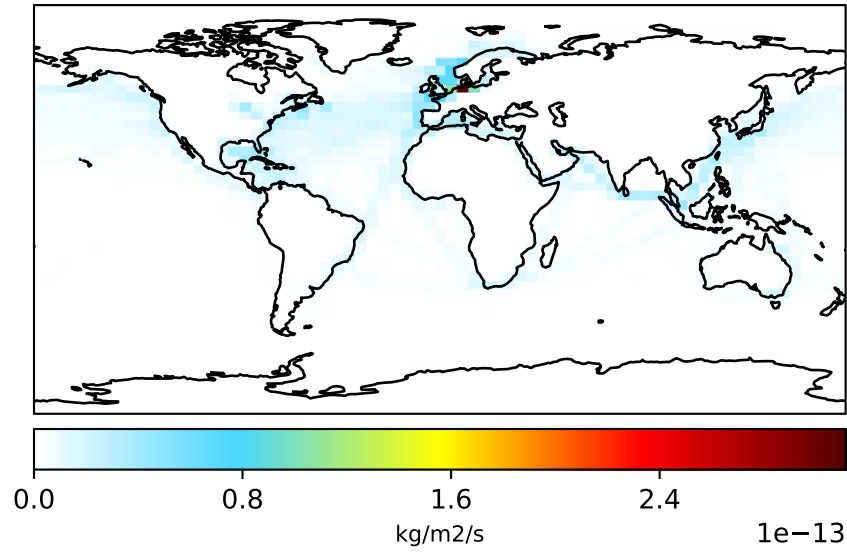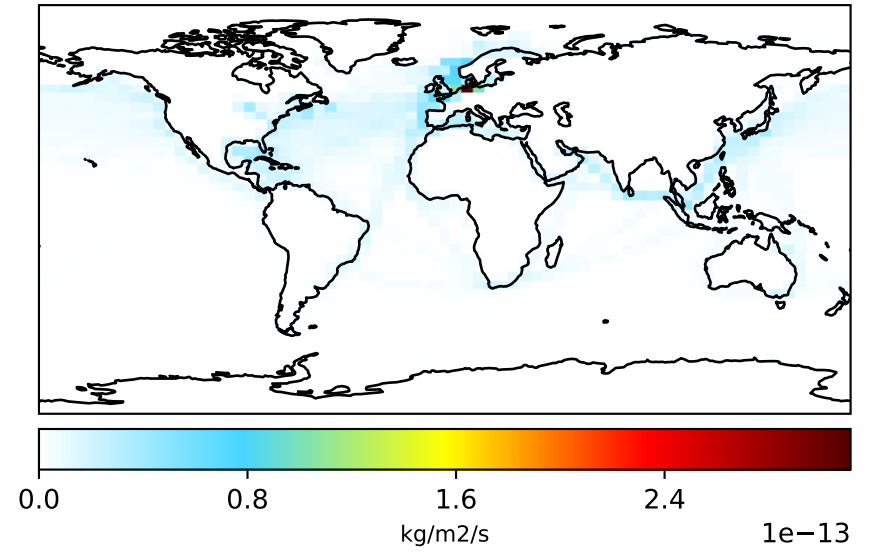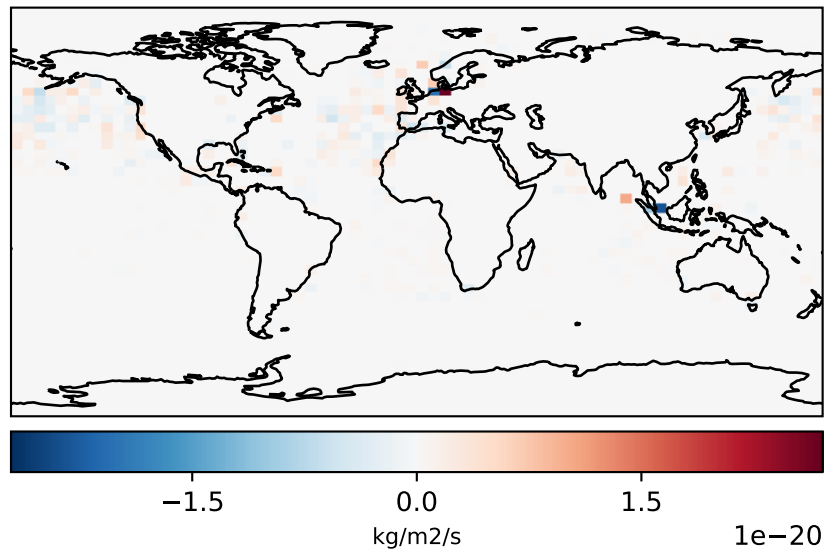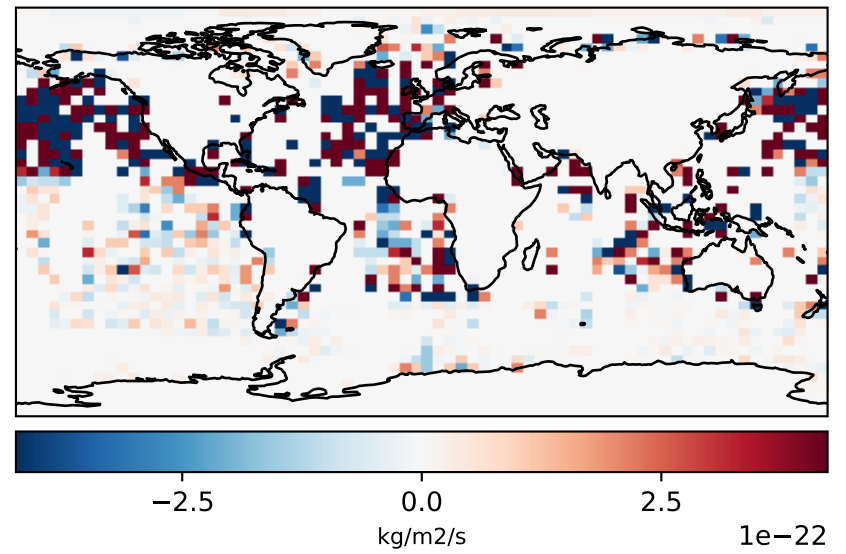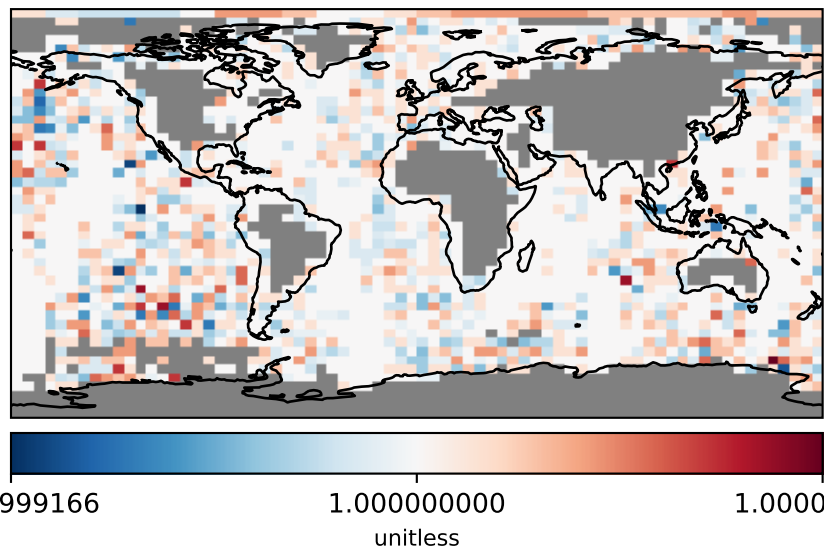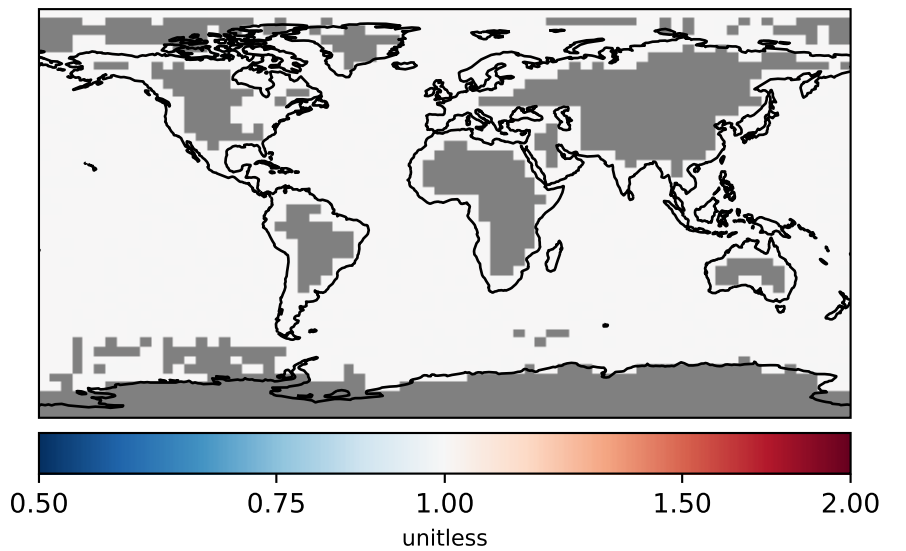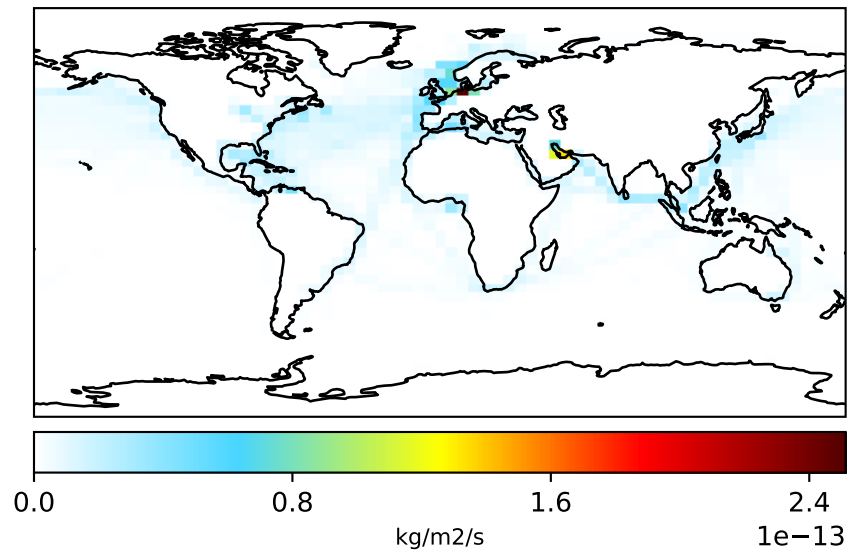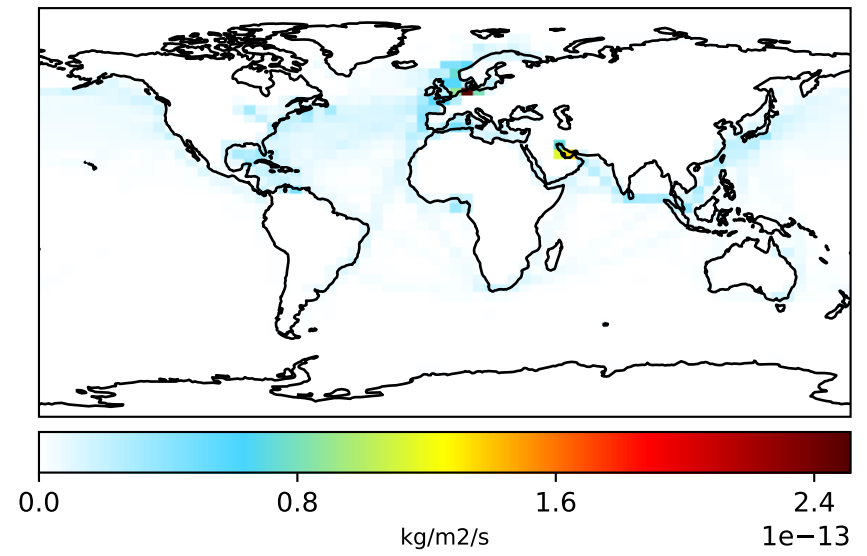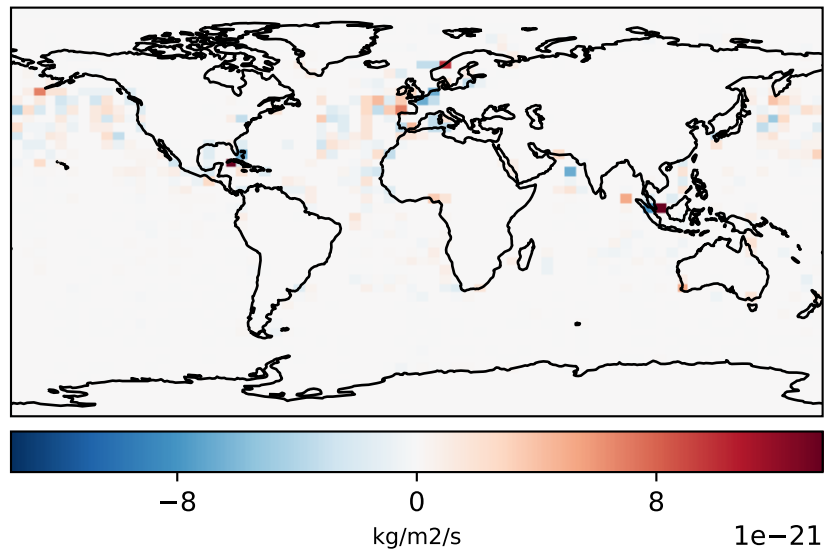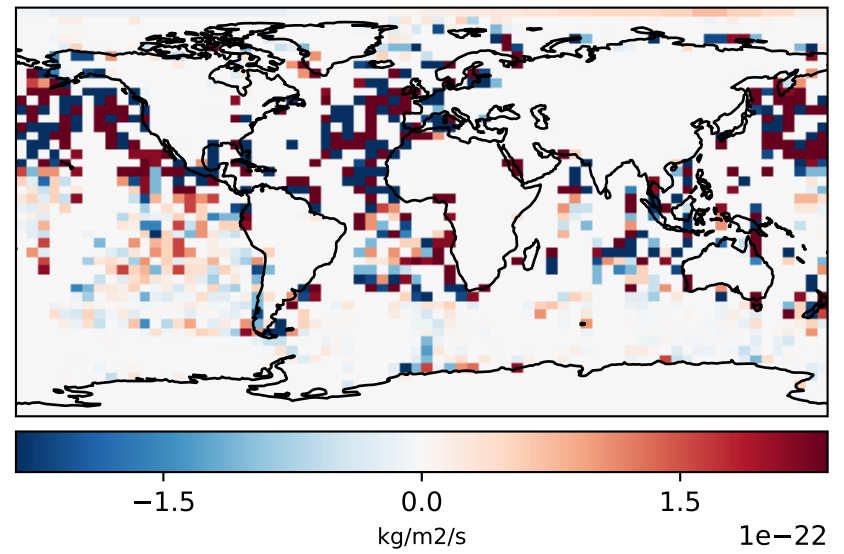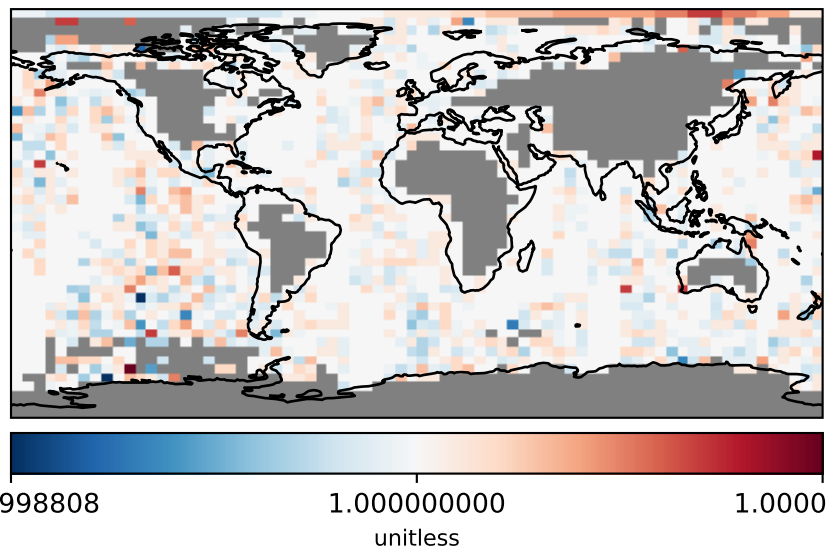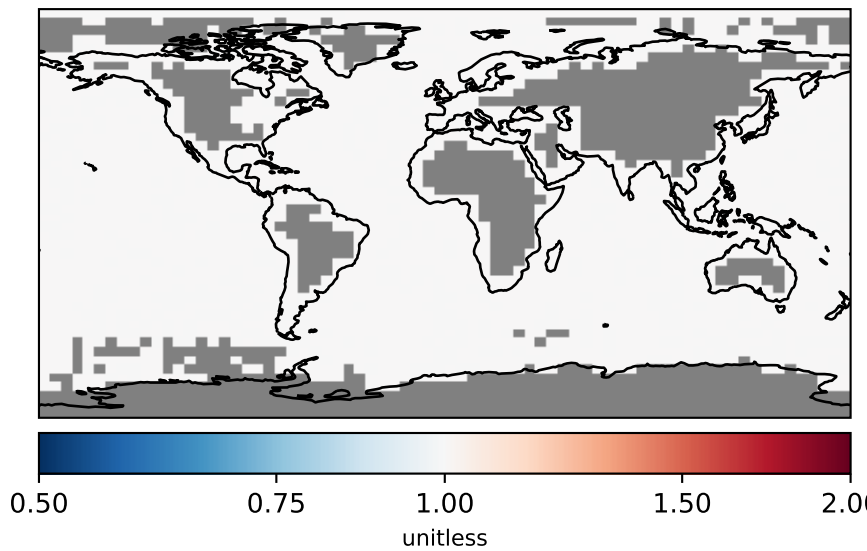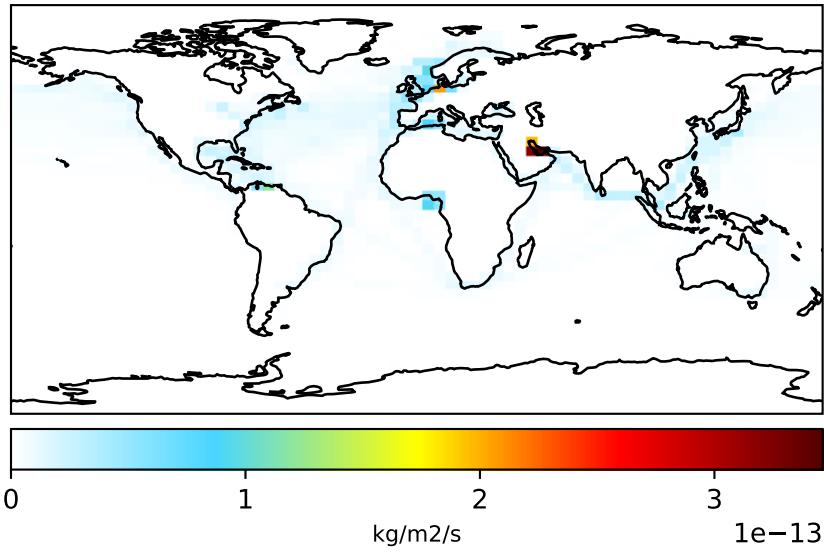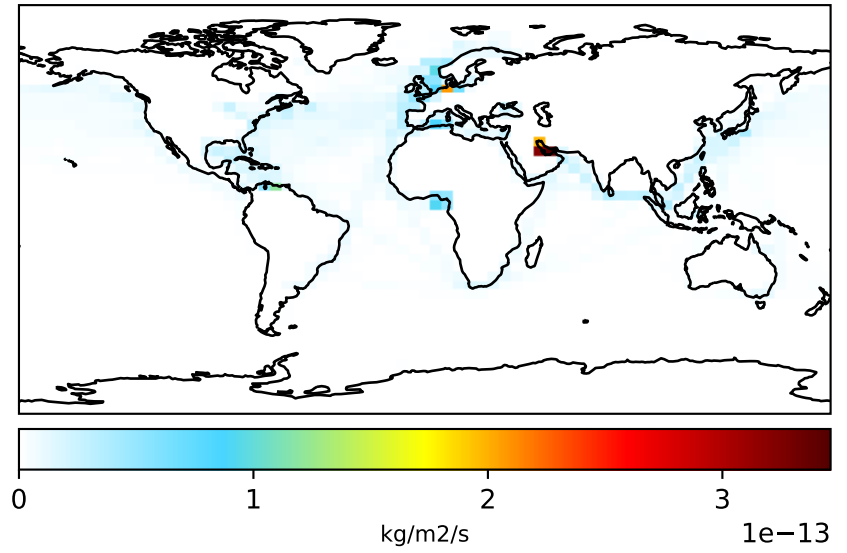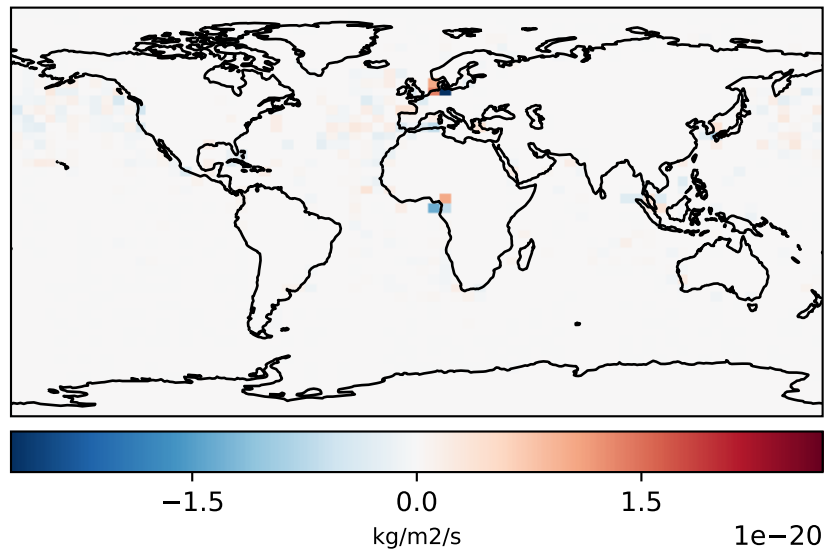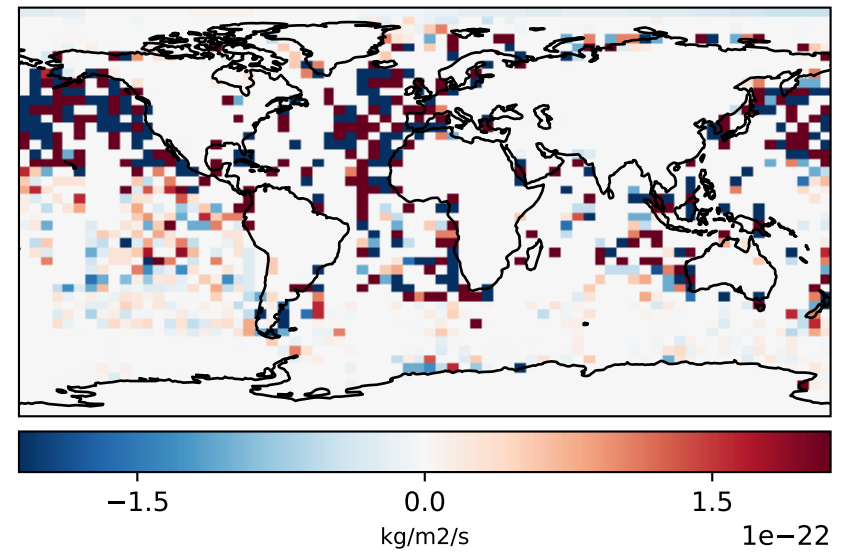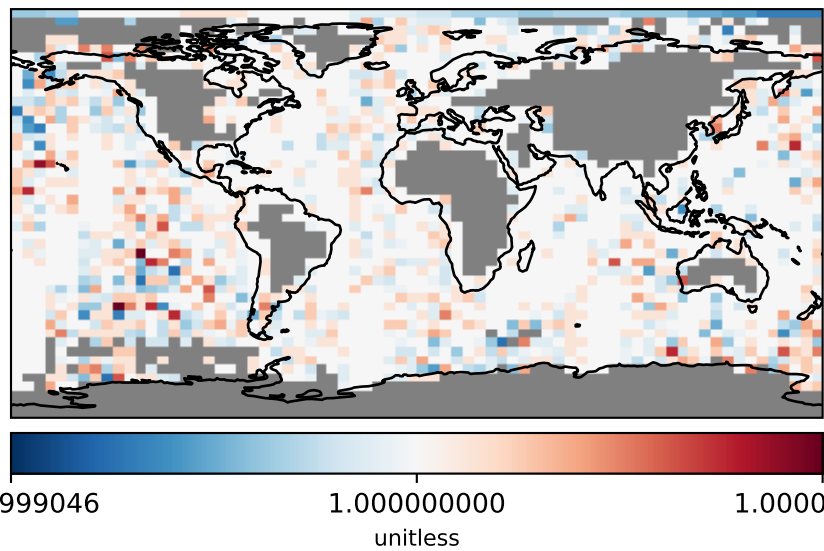
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

unitless

EmisTOLU_Ship (Oct2019)

EmisXYLE_Ship (Oct2019)