EmisALK4_Aircraft (Jul2019)
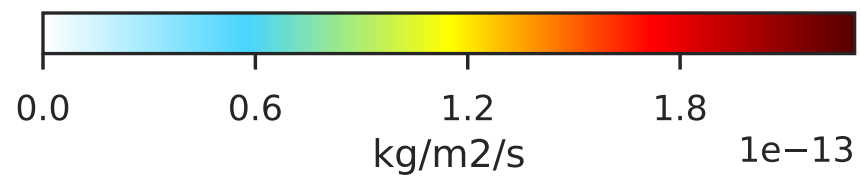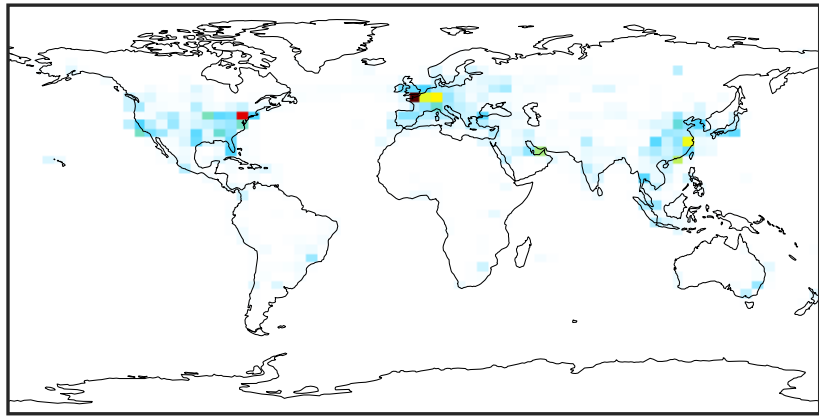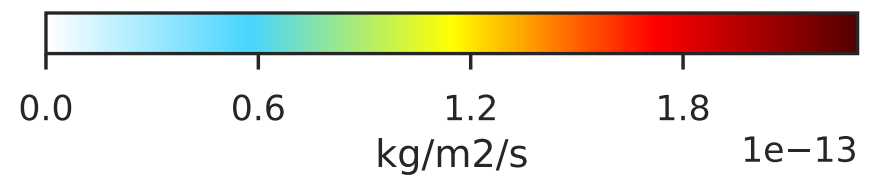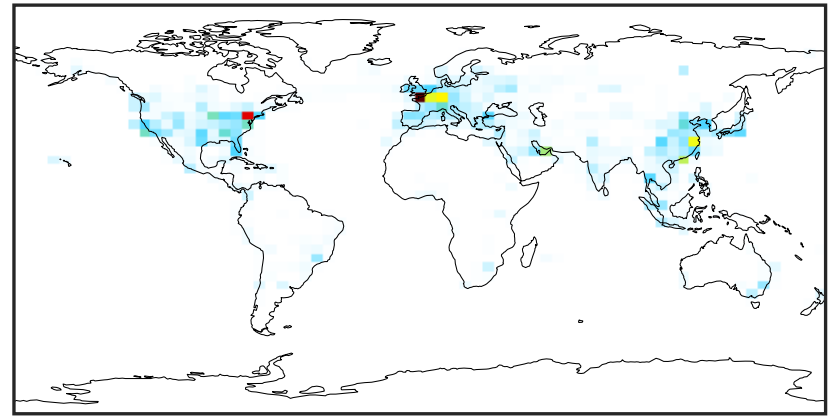
14.2.0-rc.2 (Ref)
4.0x5.0

14.3.0-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
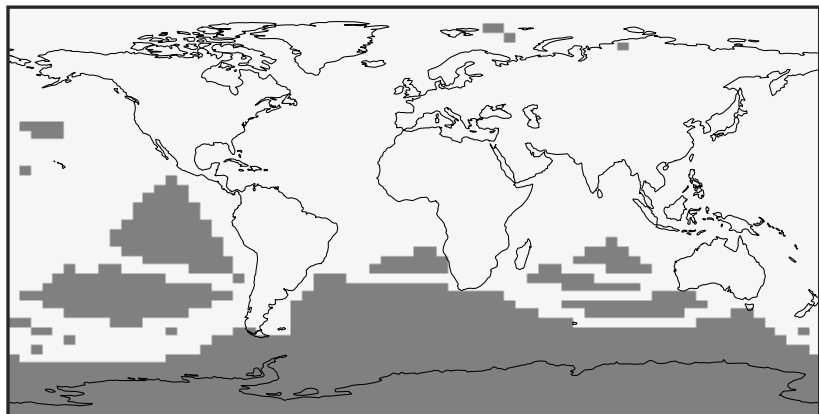
Ratio
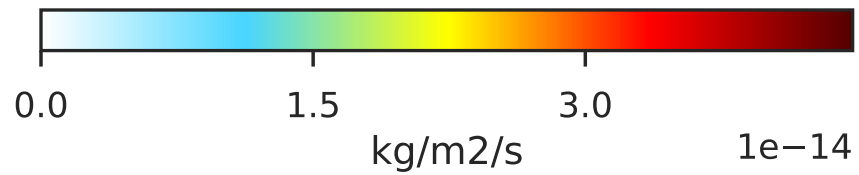### Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless
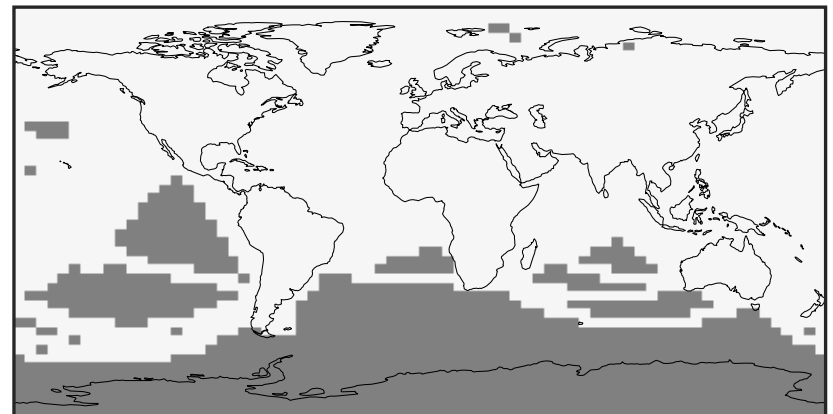
Ref and Dev equal throughout domain
unitless

EmisBCPI_Aircraft (Jul2019)
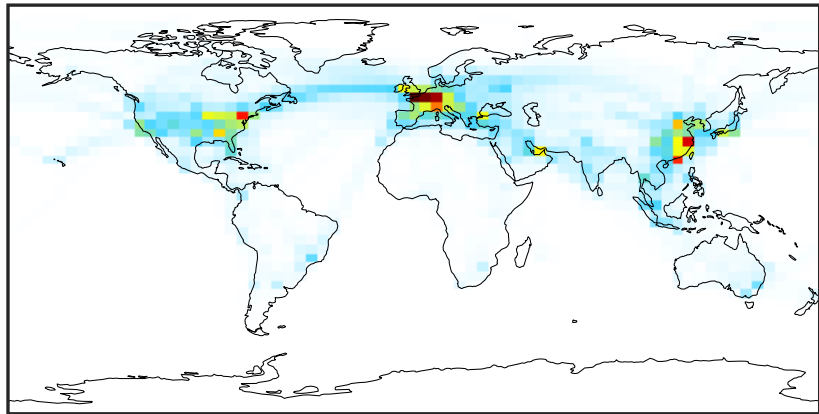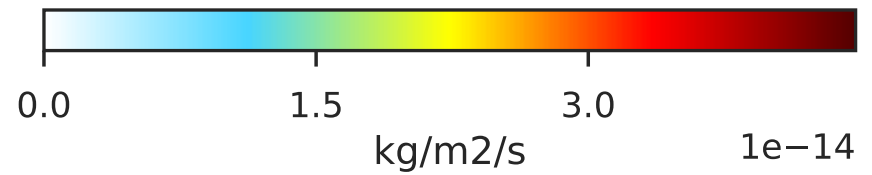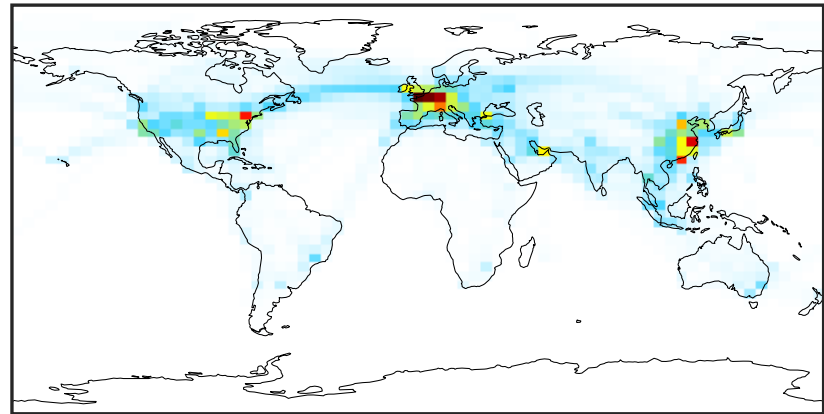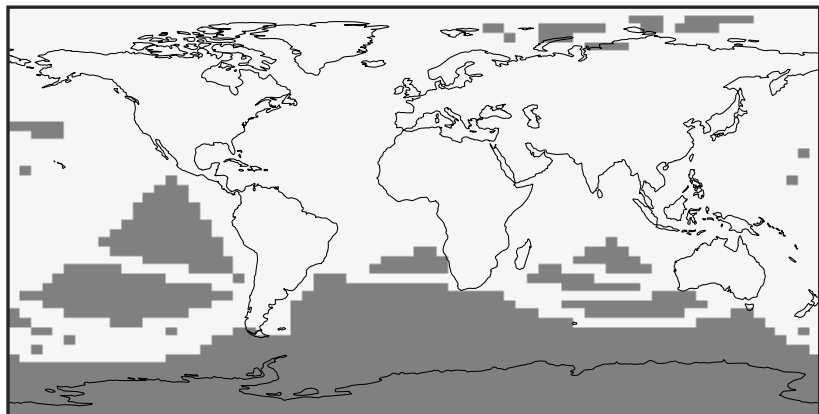
EmisC2H6_Aircraft (Jul2019)

EmisC3H8_Aircraft (Jul2019)

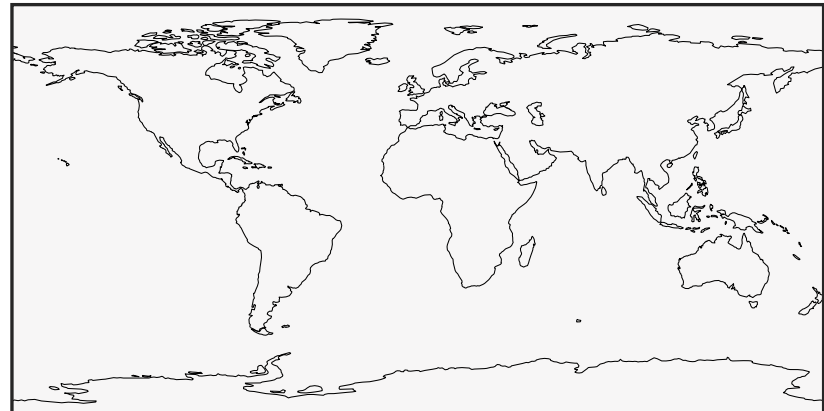| 14.2.0-rc.2 (Ref)	14.3.0-rc.0 (Dev)
4.0x5.0	4.0x5.0

kg/m2/s 1e−16

kg/m2/s 1e−16

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

EmisCH2O_Aircraft (Jul2019)

EmisCO_Aircraft (Jul2019)

14.2.0-rc.2 (Ref)
4.0x5.0

kg/m2/s

14.3.0-rc.0 (Dev)
4.0x5.0

kg/m2/s

Difference
Dev - Ref, Dynamic Range

Zero throughout domain
kg/m2/s

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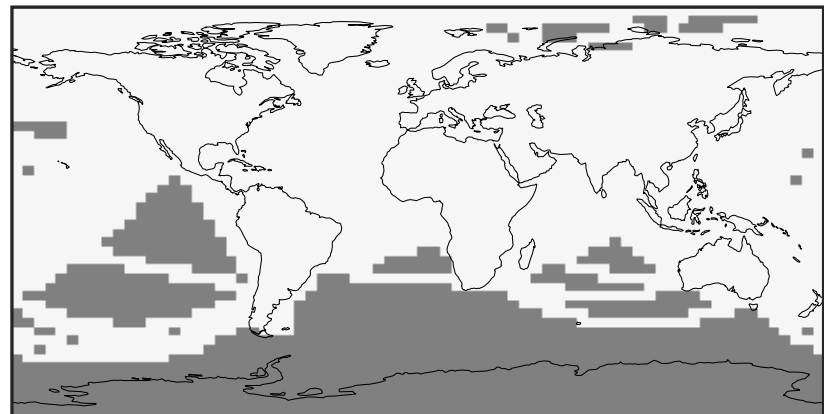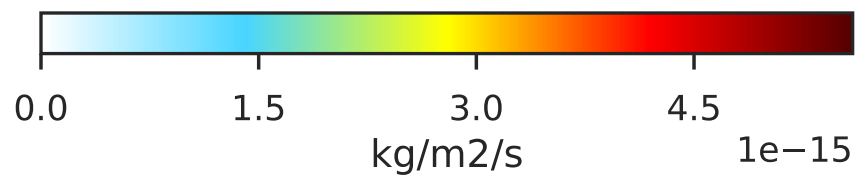### Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range
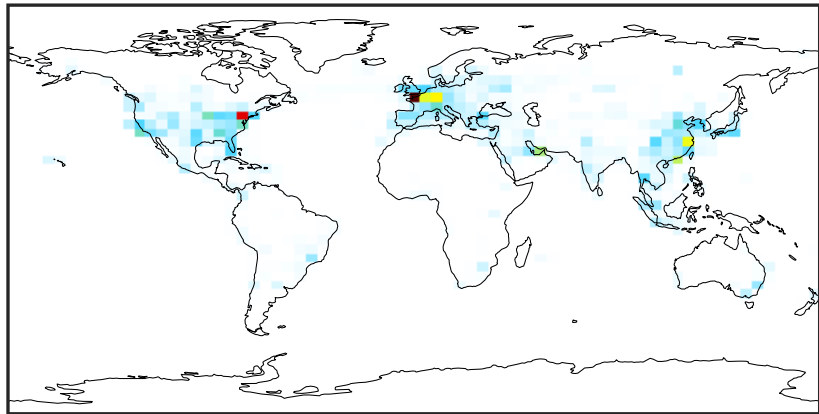

Ref and Dev equal throughout domain
unitless
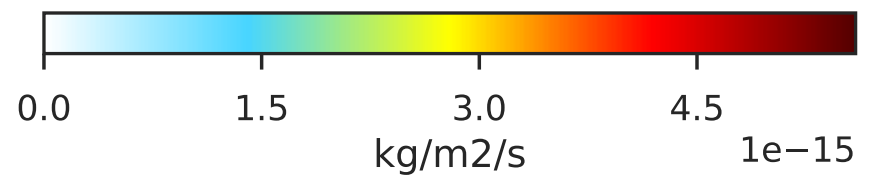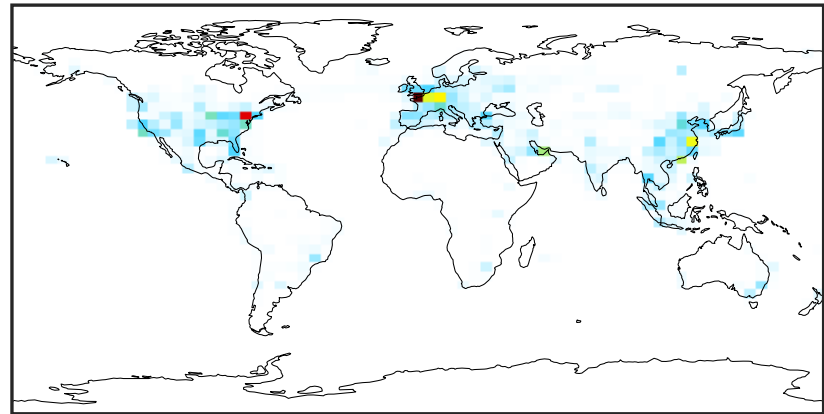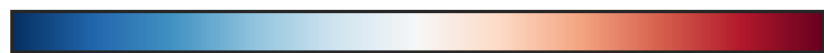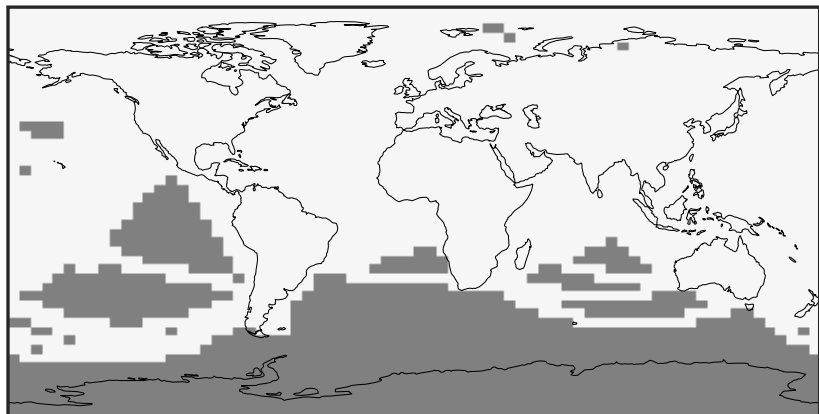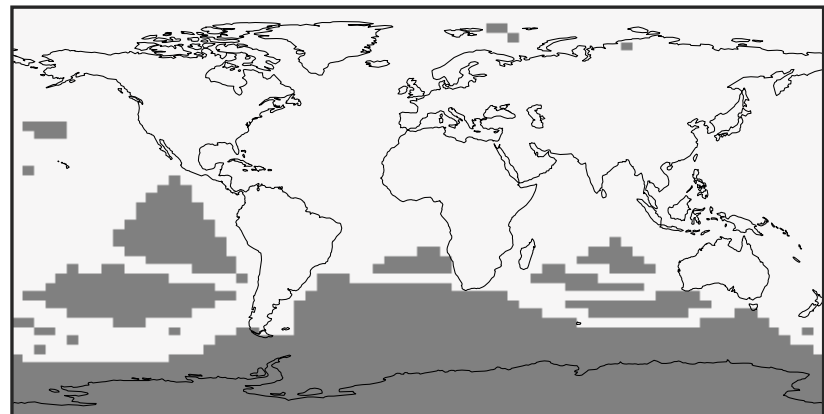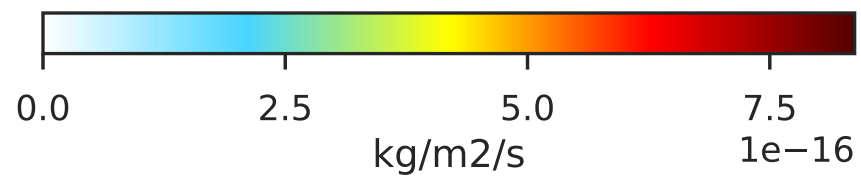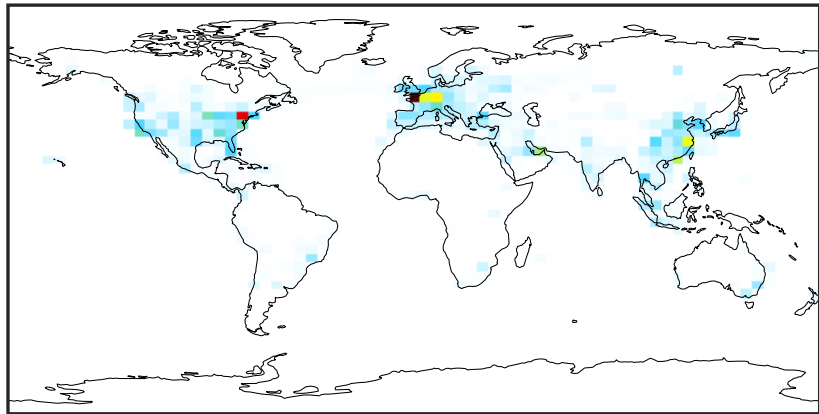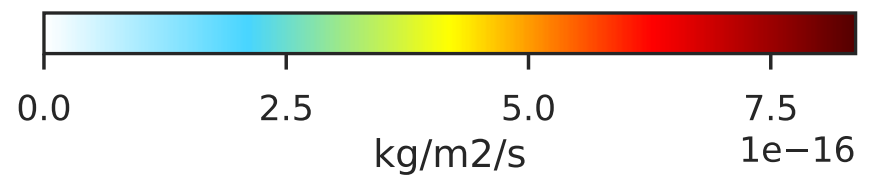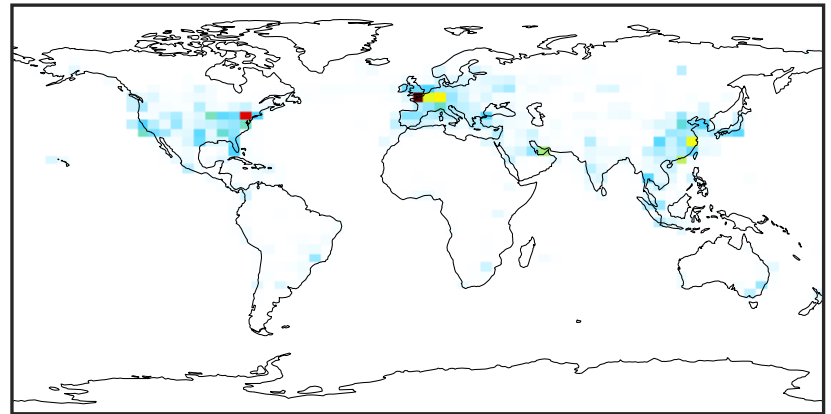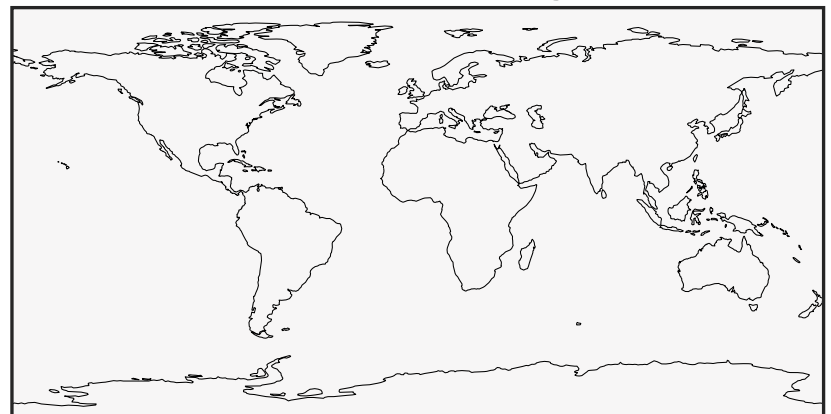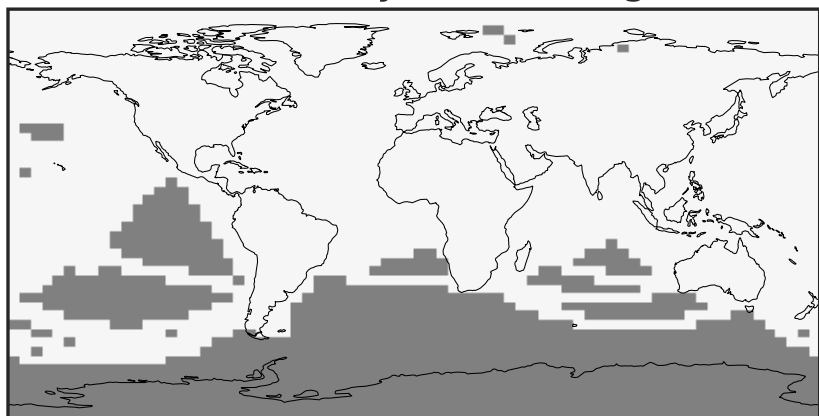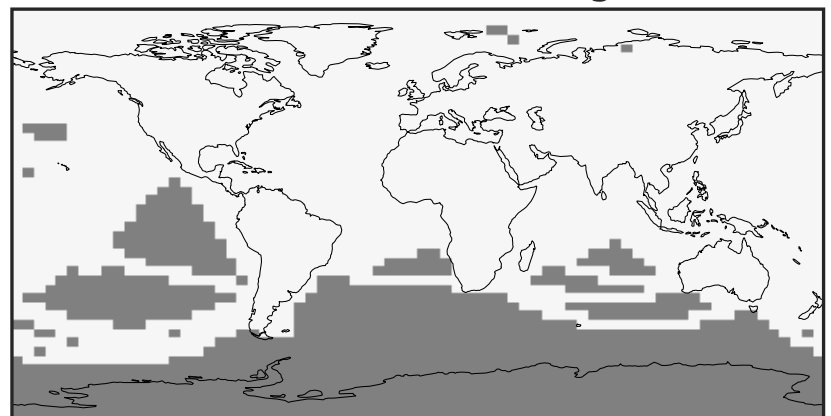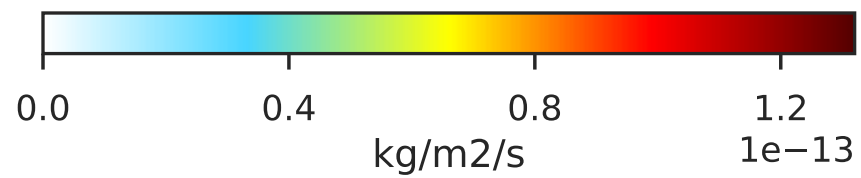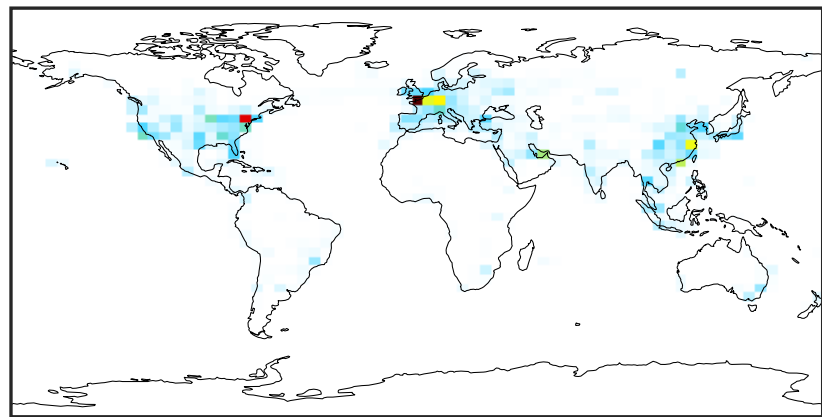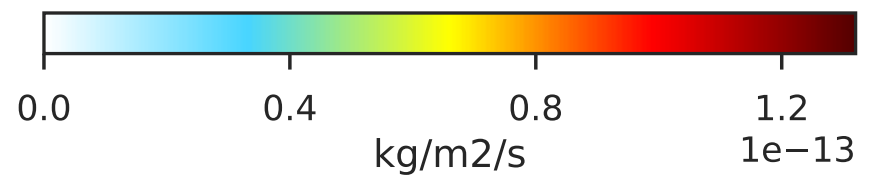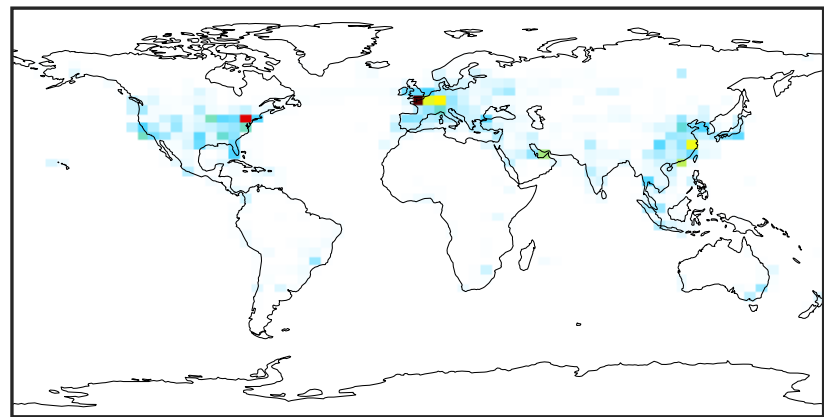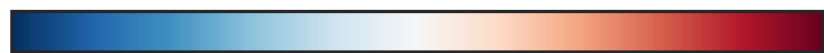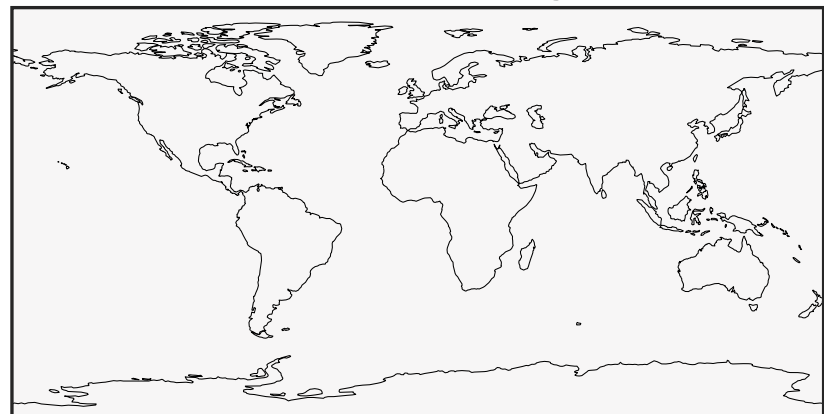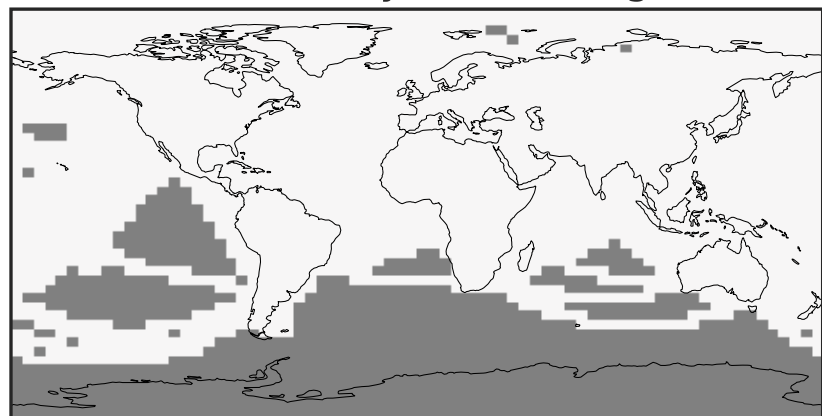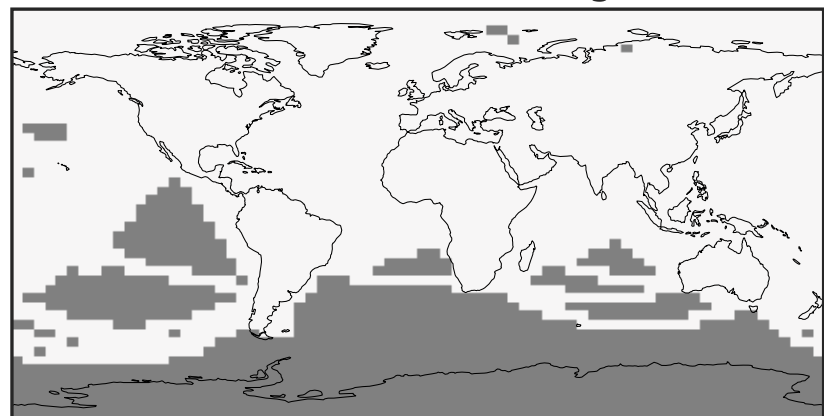
Ratio
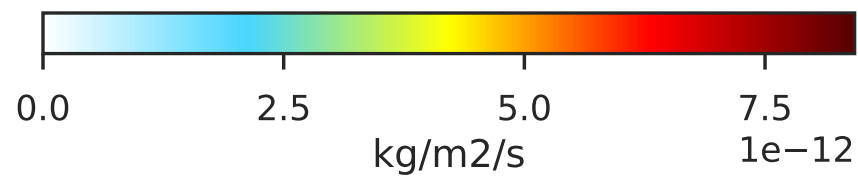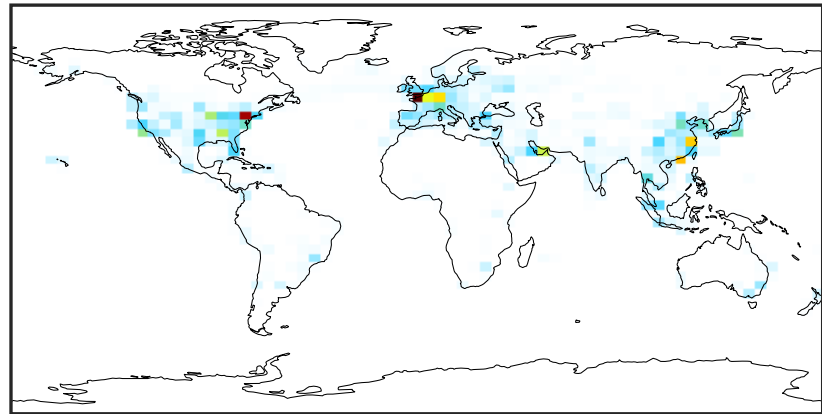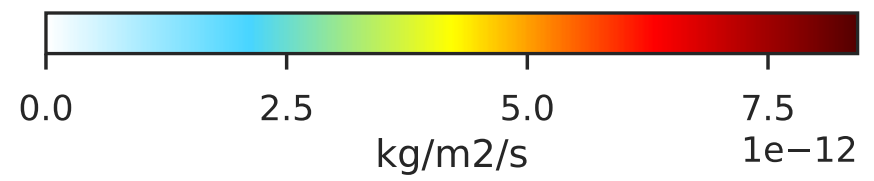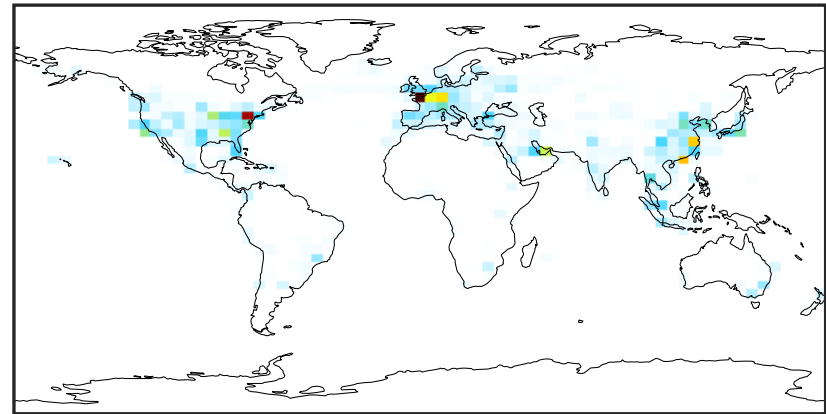### Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

EmisH2O_Aircraft (Jul2019)
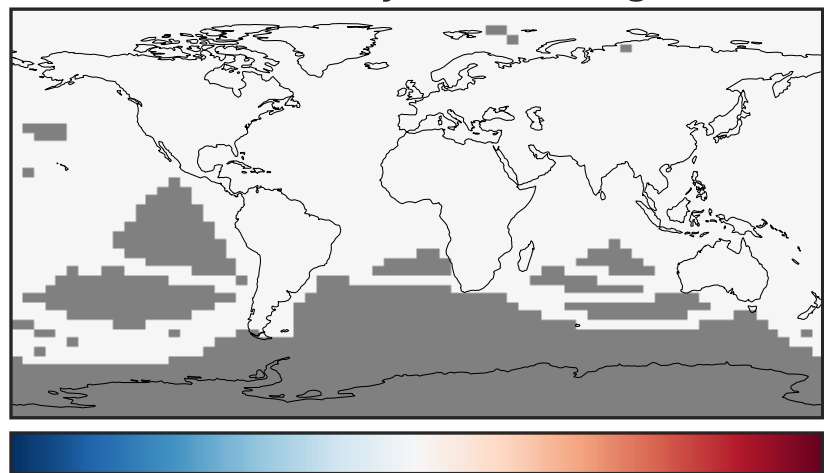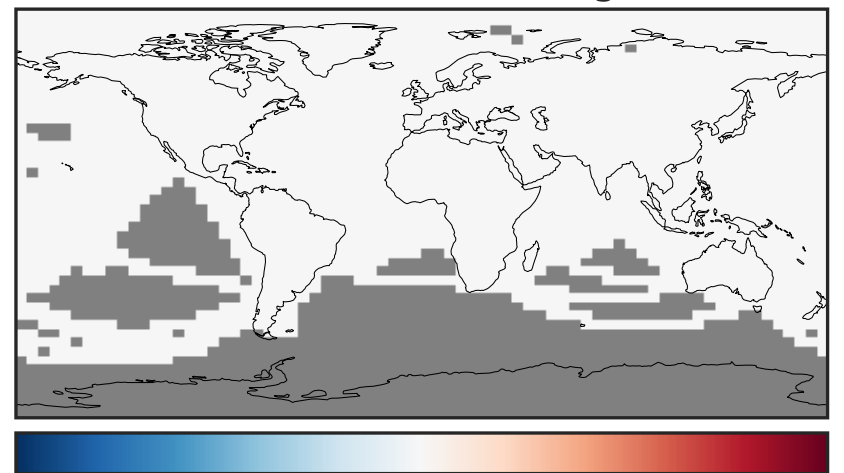
EmisMACR_Aircraft (Jul2019)
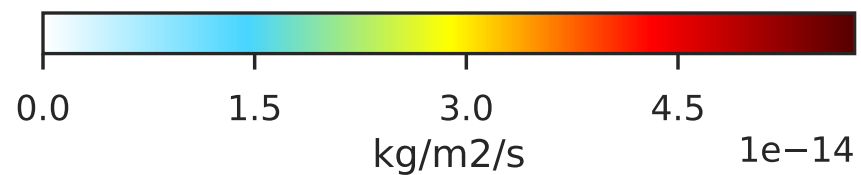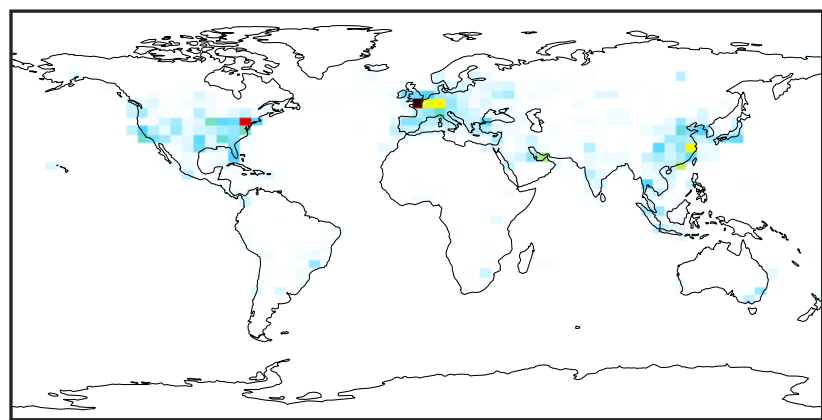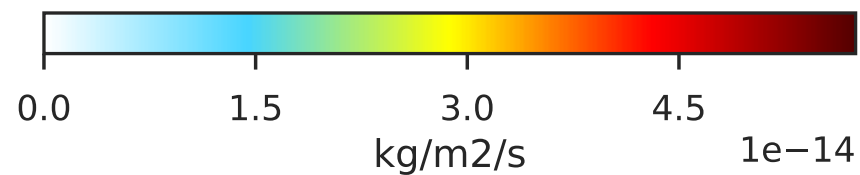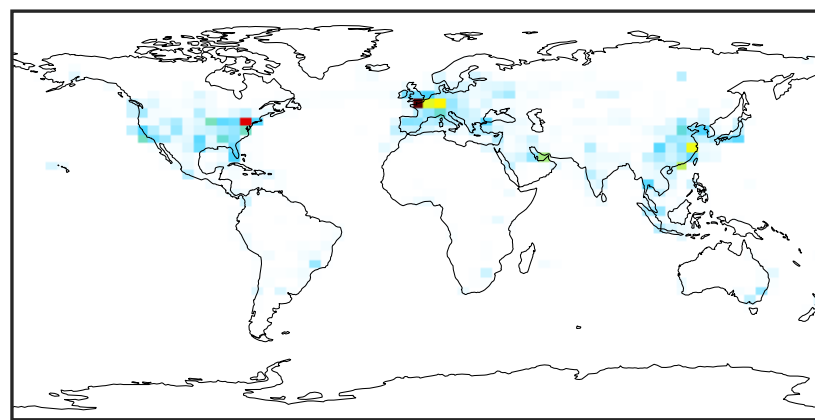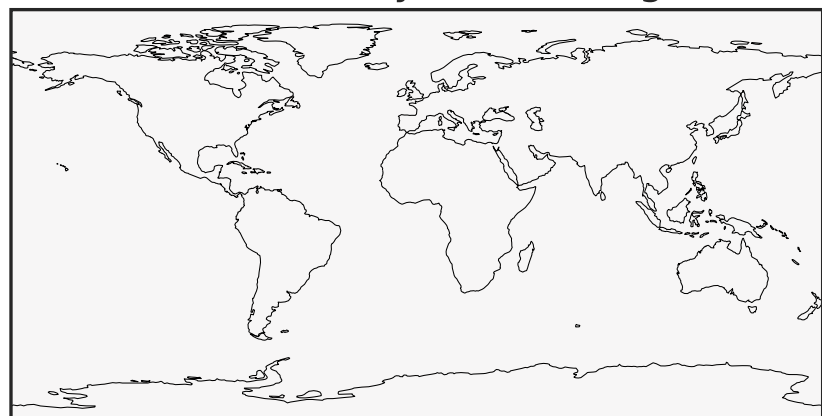
14.2.0-rc.2 (Ref)
4.0x5.0

14.3.0-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_Aircraft (Jul2019)

14.2.0-rc.2 (Ref)
4.0x5.0

kg/m2/s

14.3.0-rc.0 (Dev)
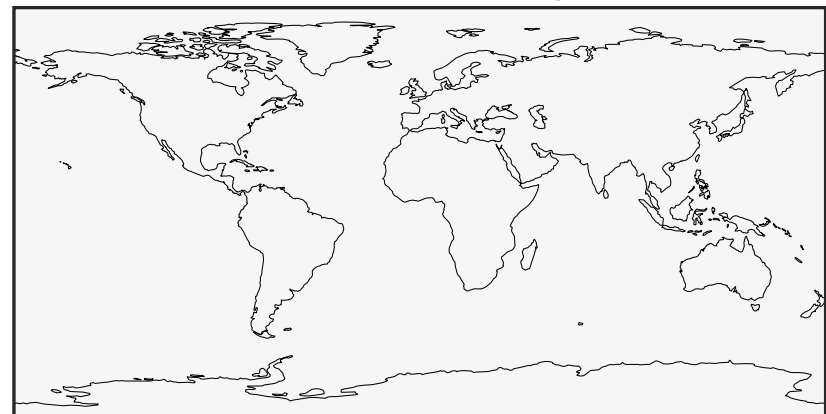### 4.0x5.0

kg/m2/s
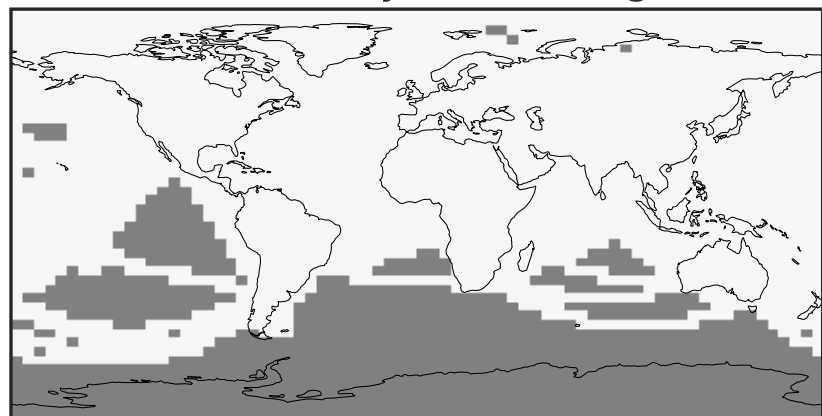
Difference
Dev - Ref, Dynamic Range

Zero throughout domain
kg/m2/s

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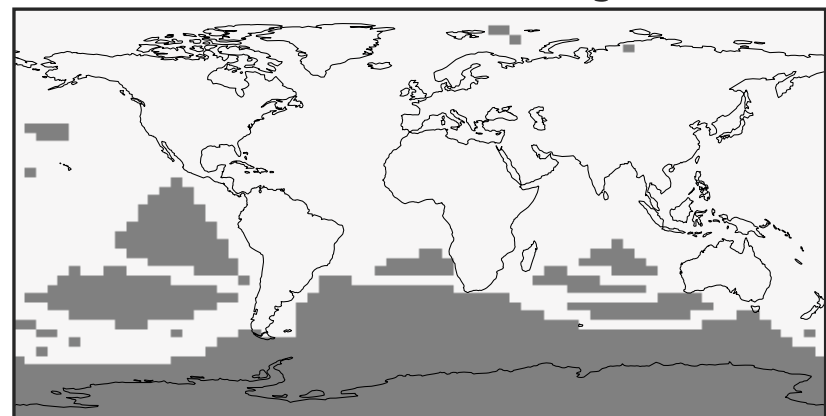### Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range
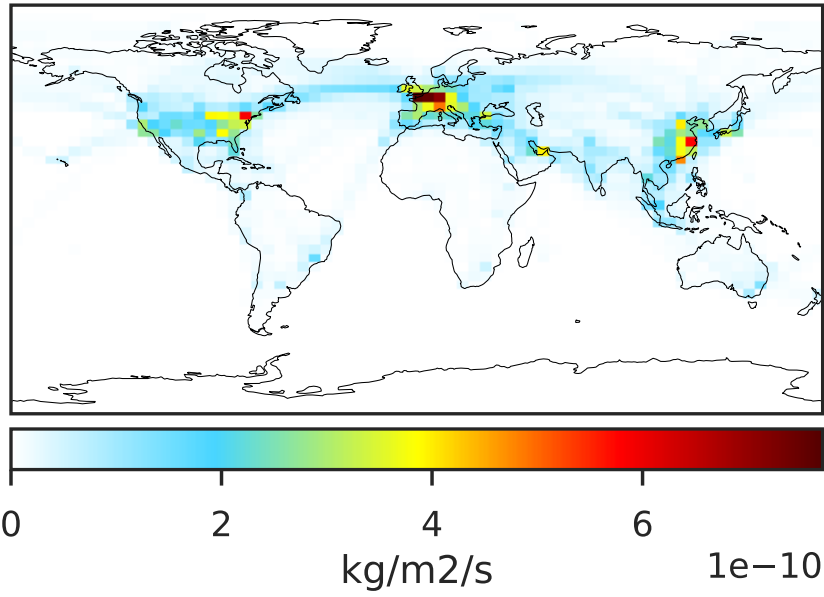

Ref and Dev equal throughout domain
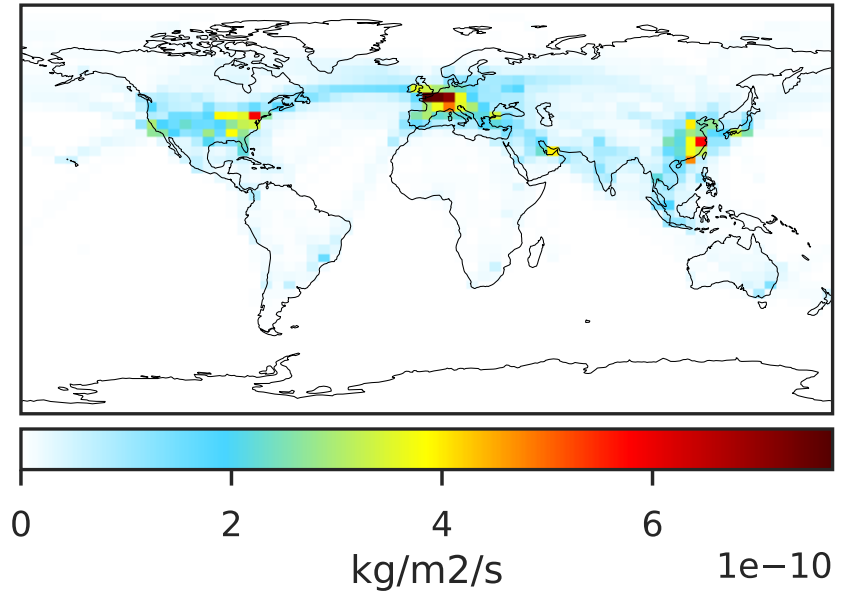unitless

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
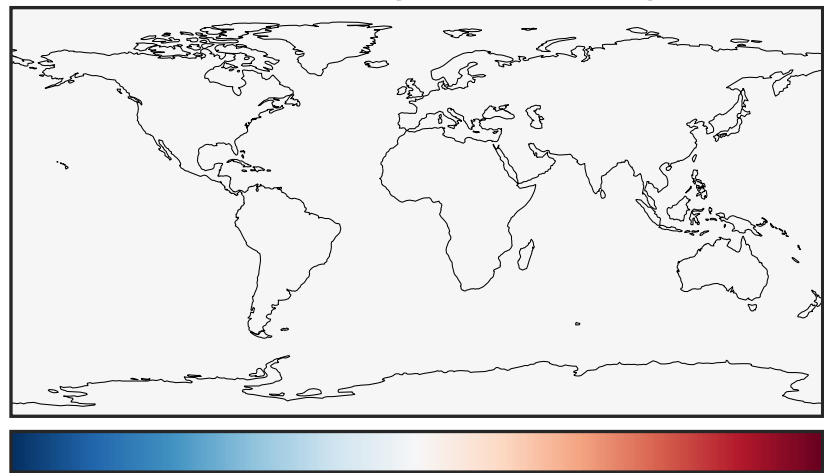unitless

EmisNO_Aircraft (Jul2019)

14.2.0-rc.2 (Ref)
4.0x5.0

kg/m2/s
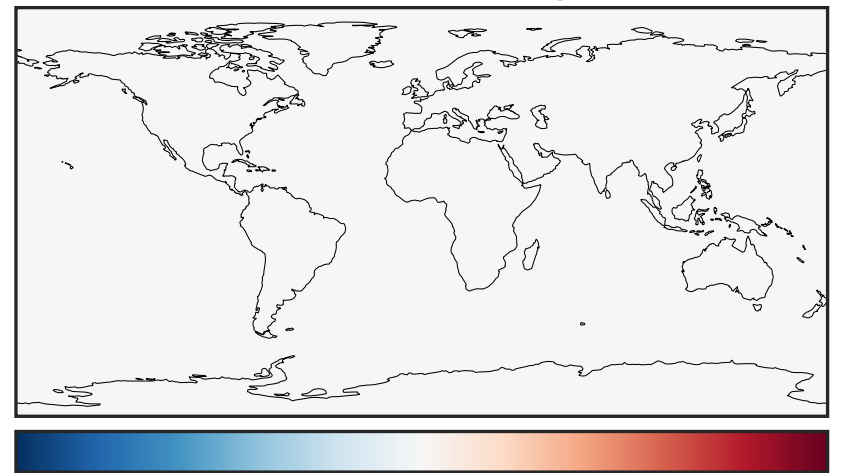
14.3.0-rc.0 (Dev)
4.0x5.0
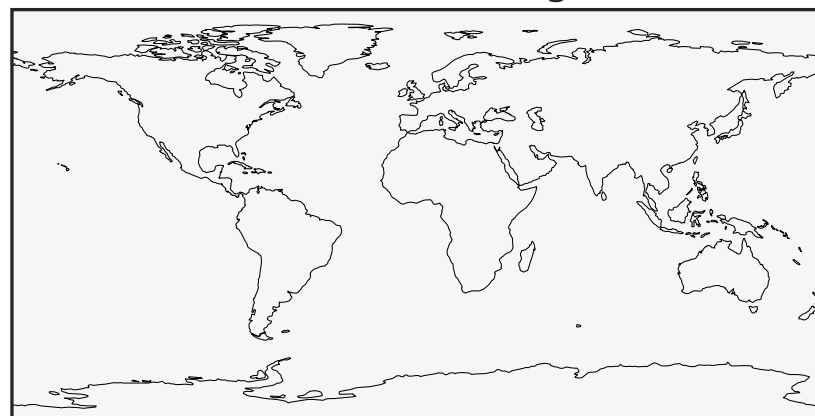

kg/m2/s

Difference
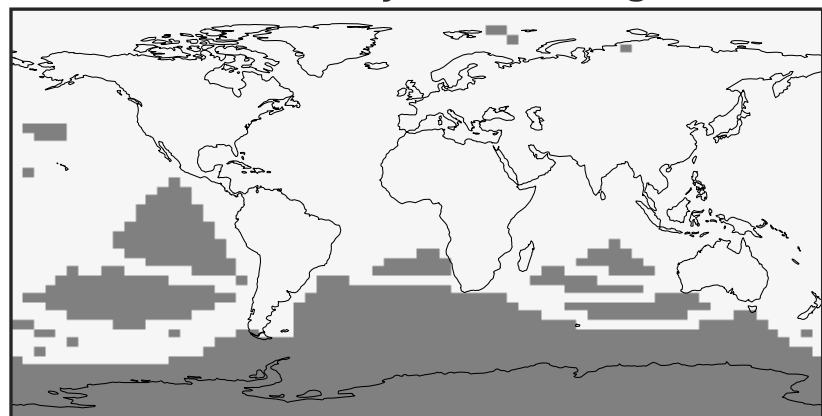### Dev - Ref, Dynamic Range

Zero throughout domain
kg/m2/s

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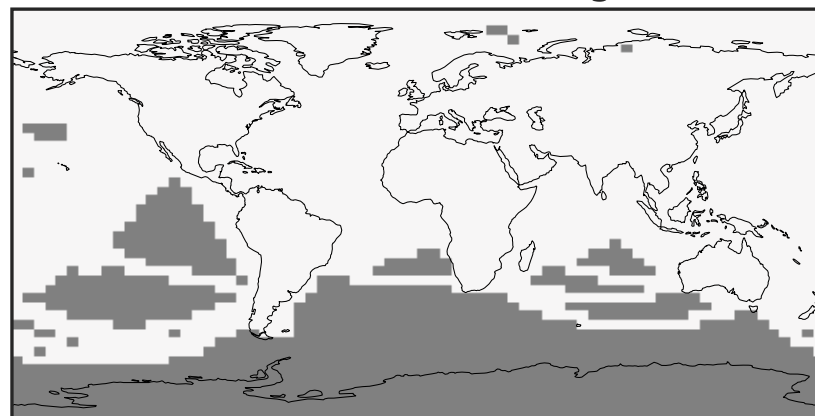### Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range
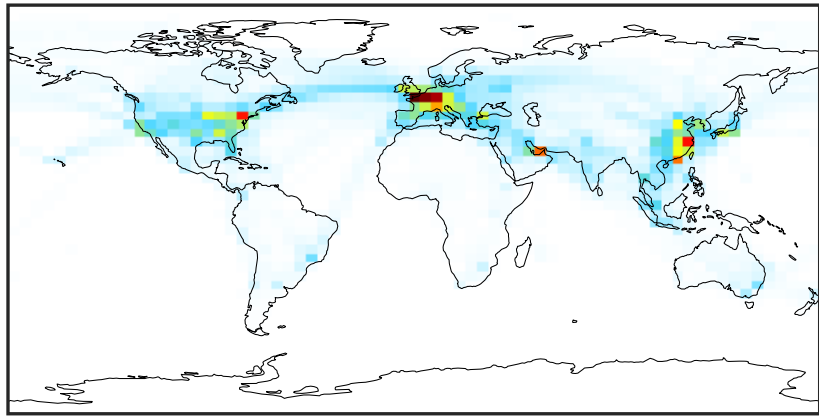

Ref and Dev equal throughout domain
unitless

Ratio
Dev/Ref, Fixed Range
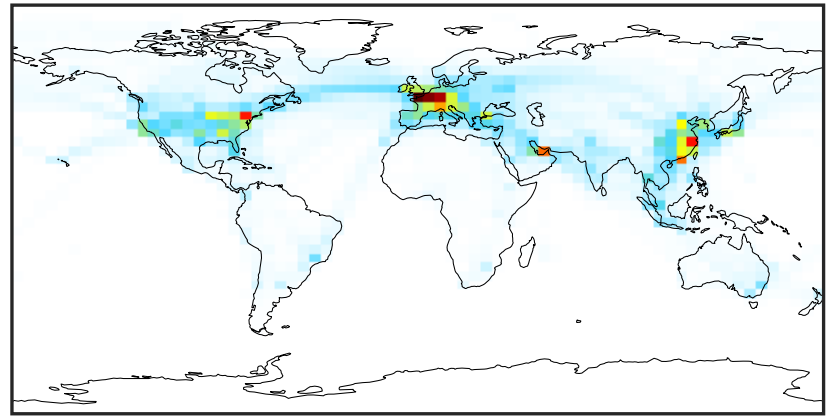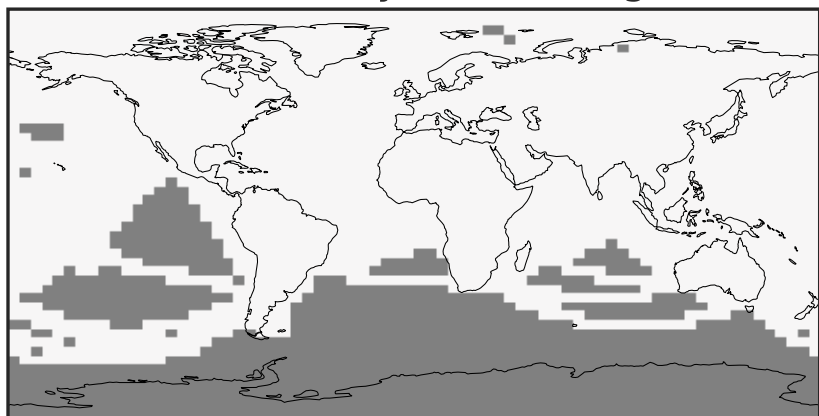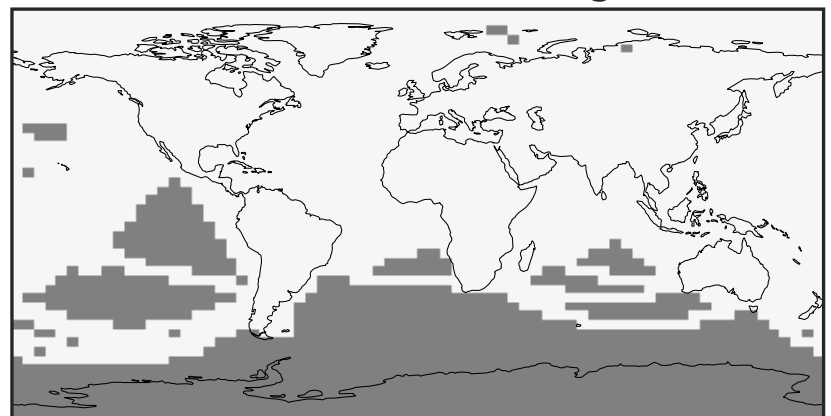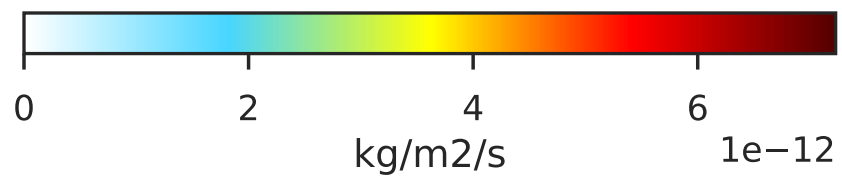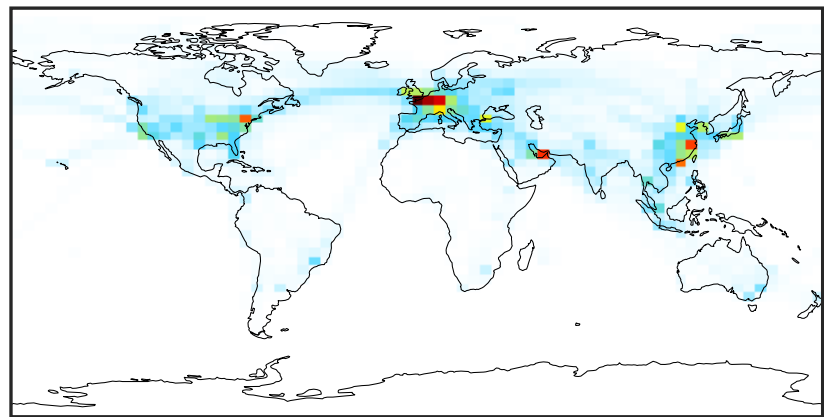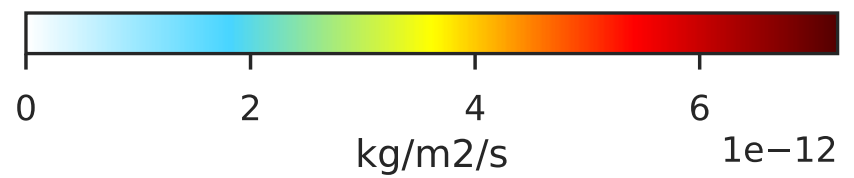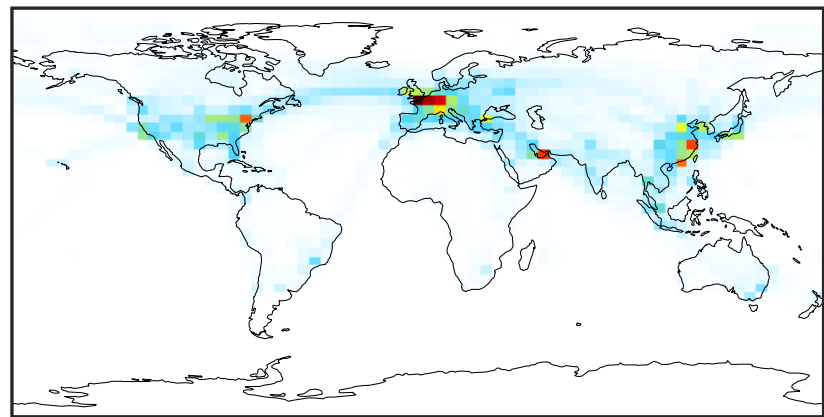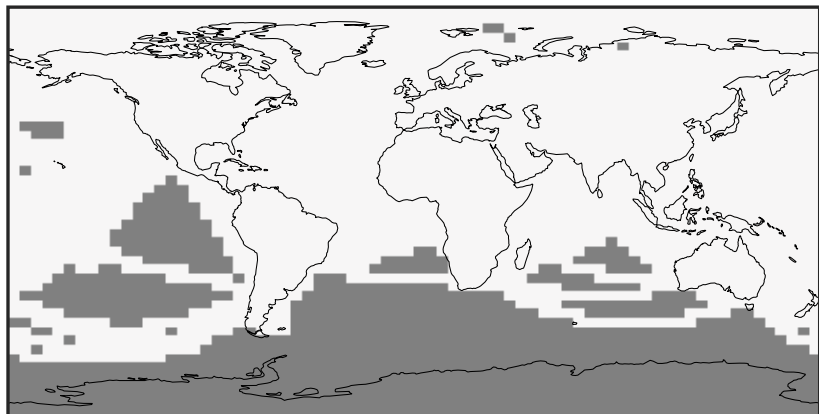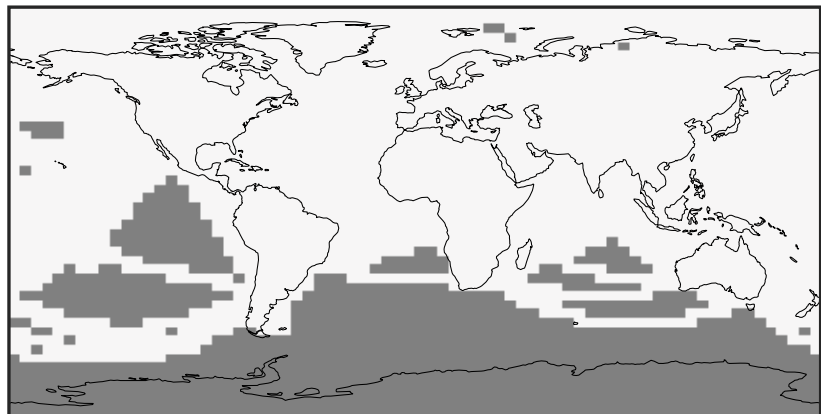

Ref and Dev equal throughout domain
unitless

EmisOCPI_Aircraft (Jul2019)

14.2.0-rc.2 (Ref)
4.0x5.0

14.3.0-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

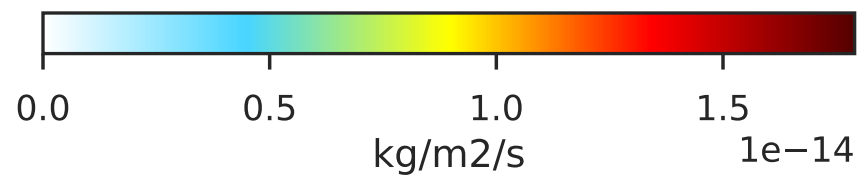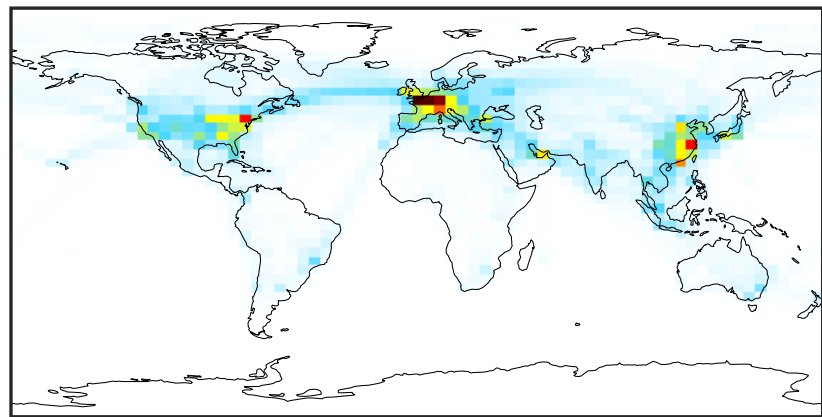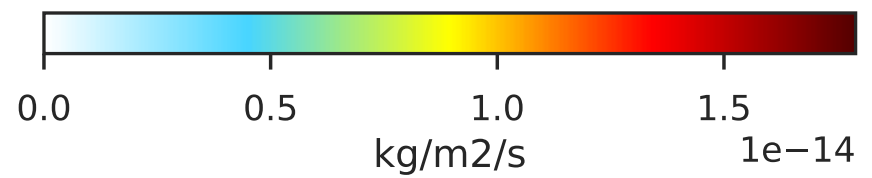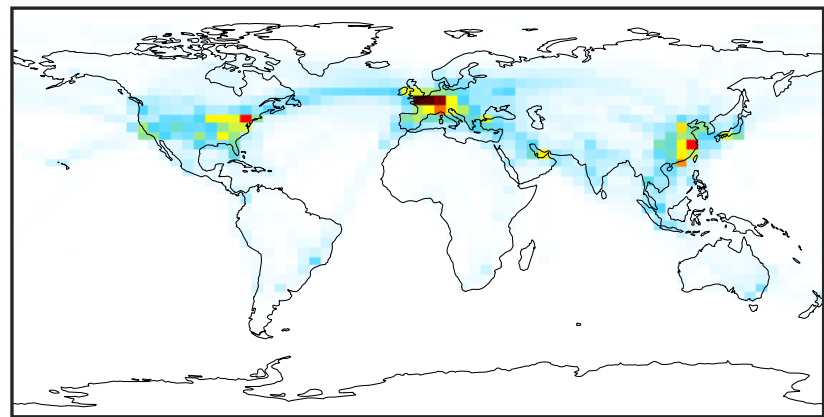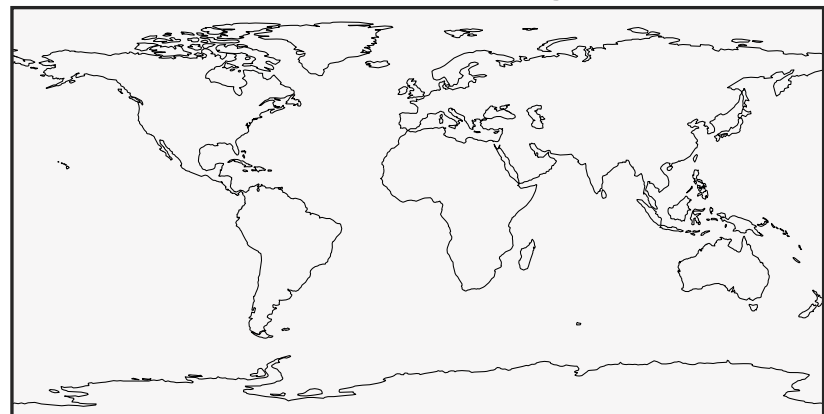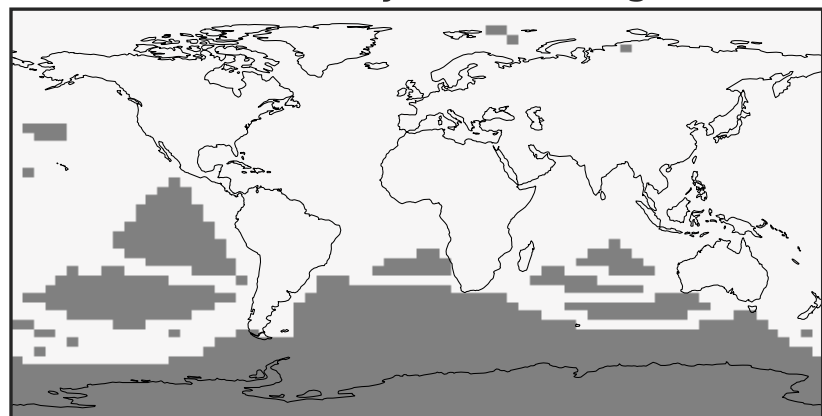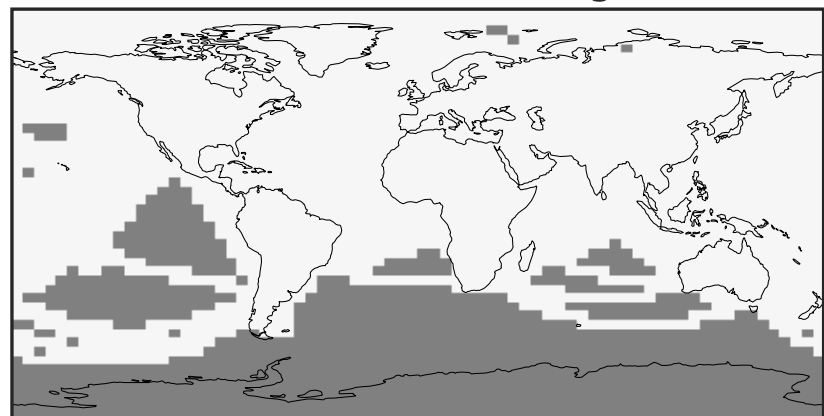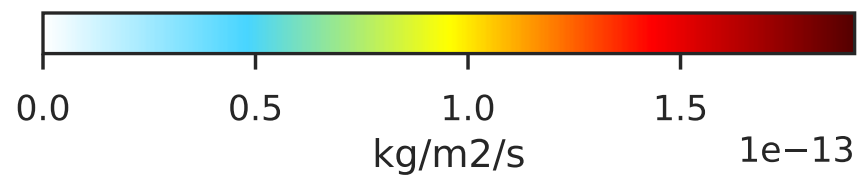Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

Ref and Dev equal throughout domain
unitless

EmisPRPE_Aircraft (Jul2019)
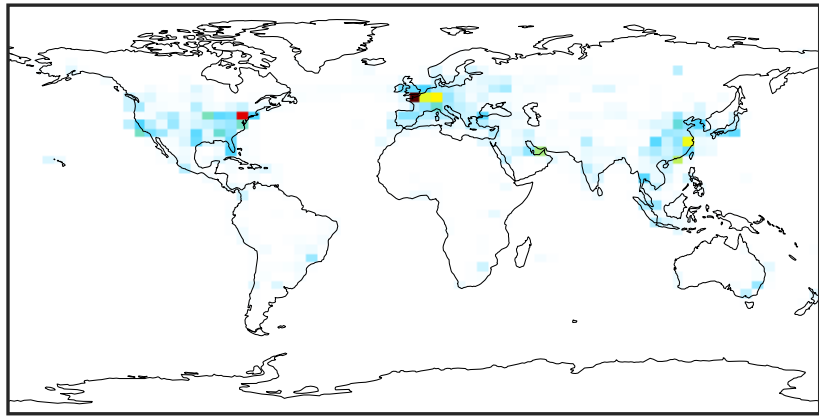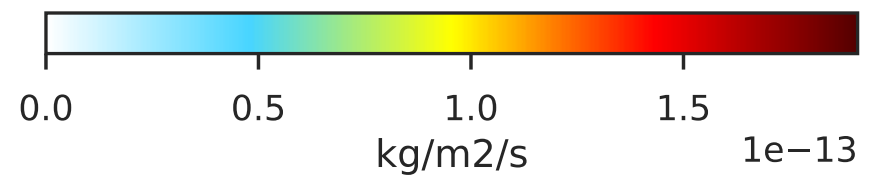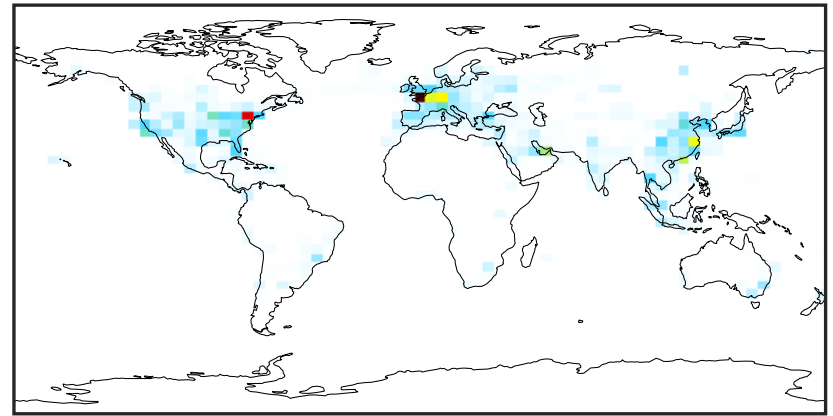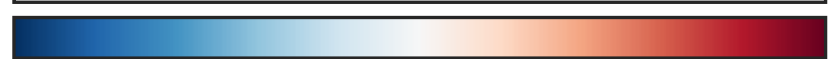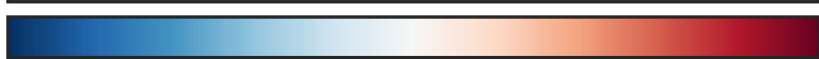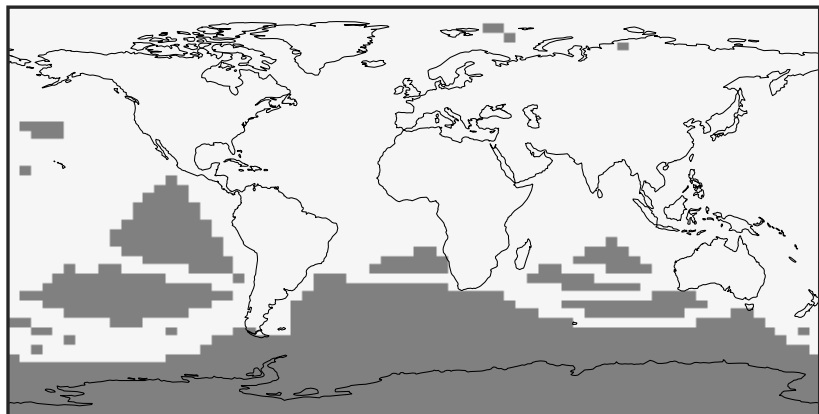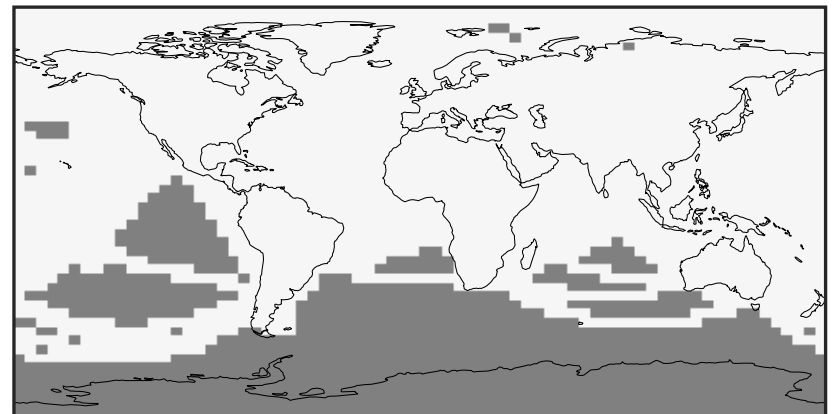
EmisRCHO_Aircraft (Jul2019)
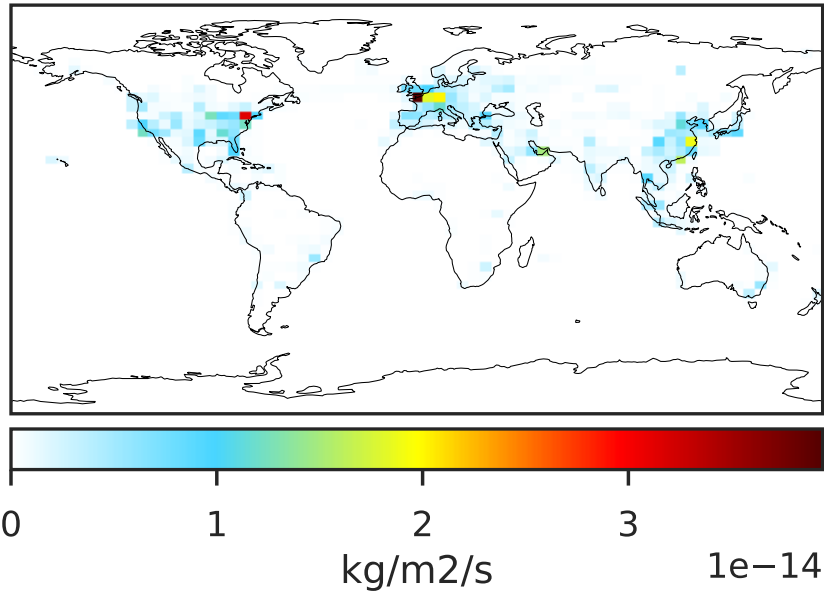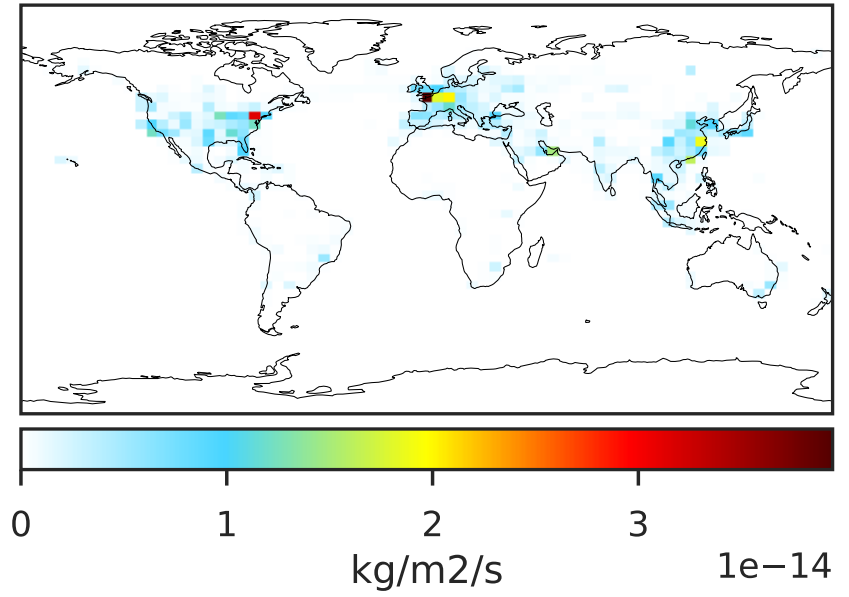
14.2.0-rc.2 (Ref)	14.3.0-rc.0 (Dev)
4.0x5.0	4.0x5.0

kg/m2/s   1e−14

kg/m2/s   1e−14

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
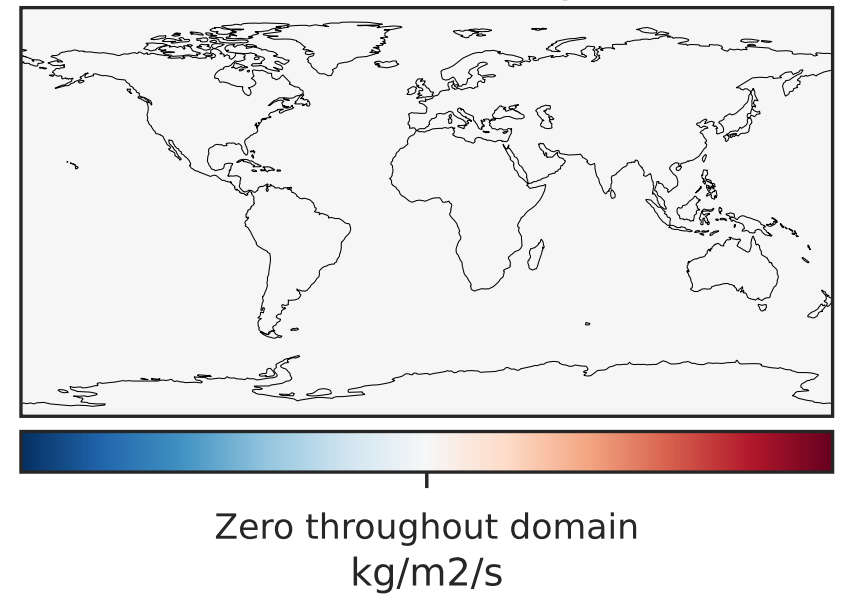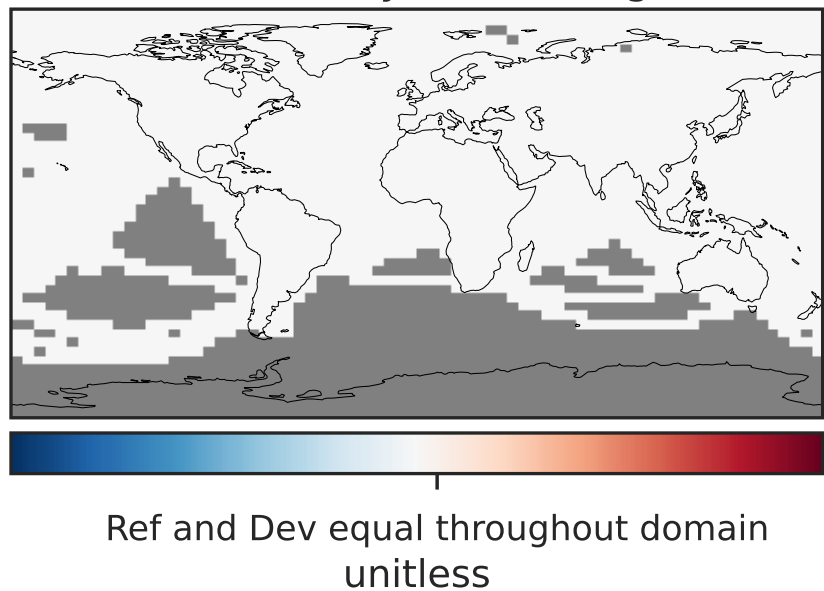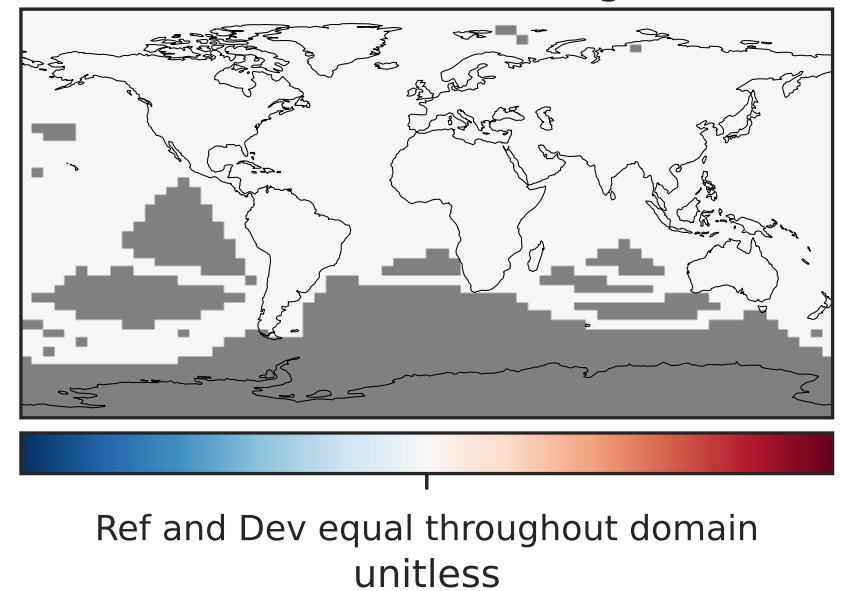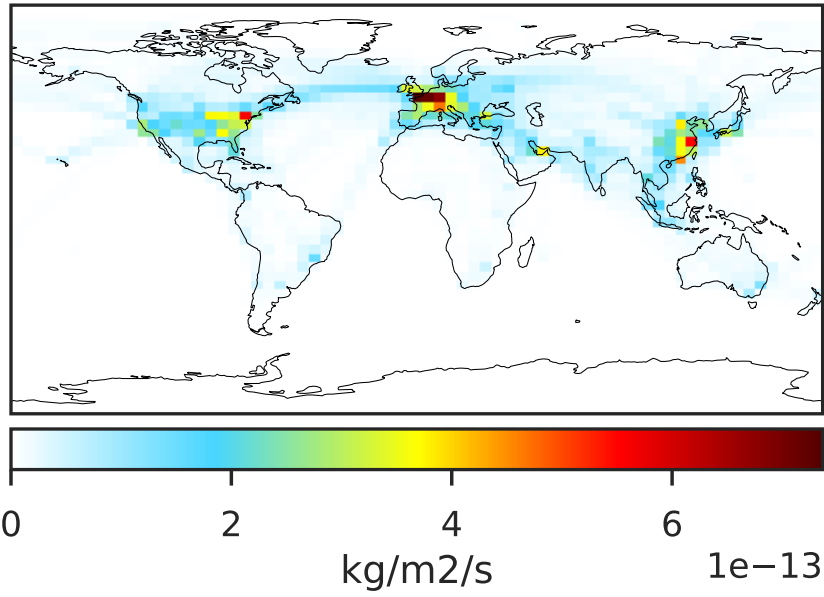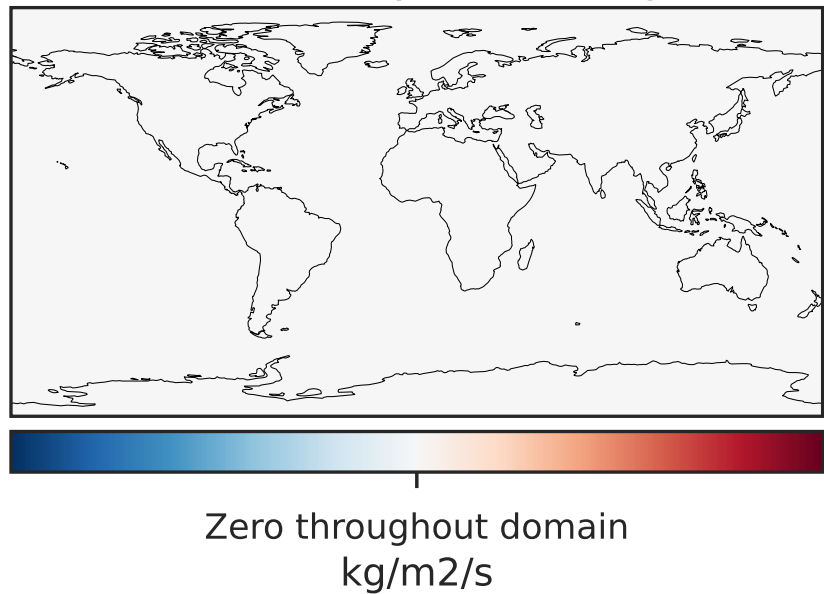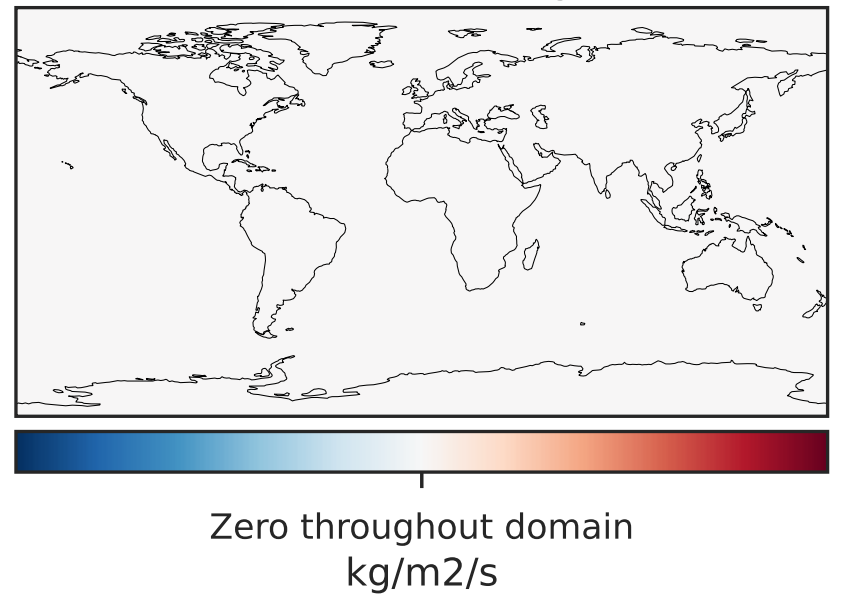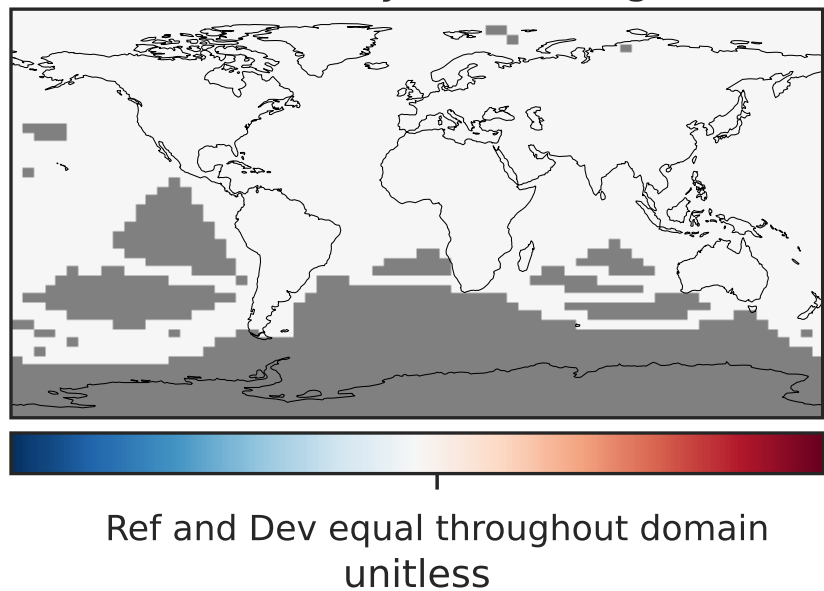
EmisSO2_Aircraft (Jul2019)
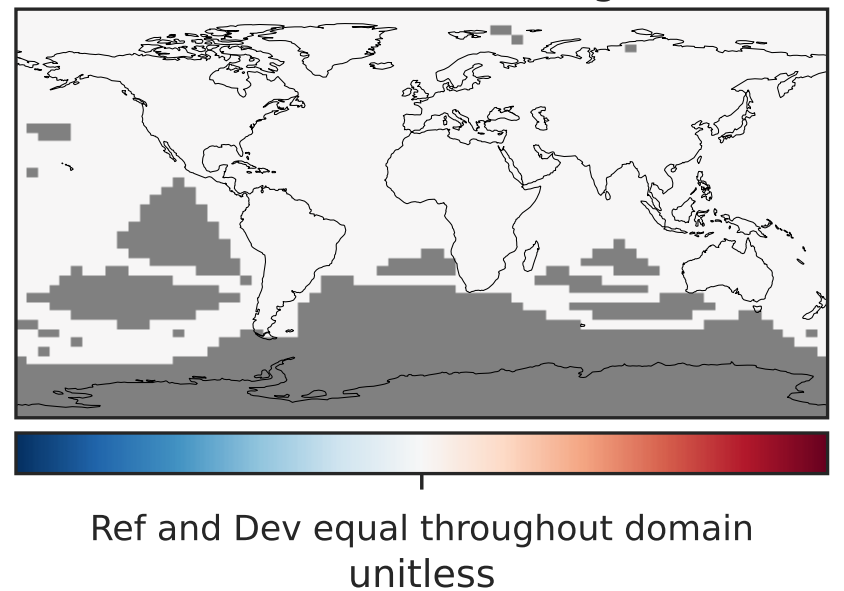
EmisSO4_Aircraft (Jul2019)
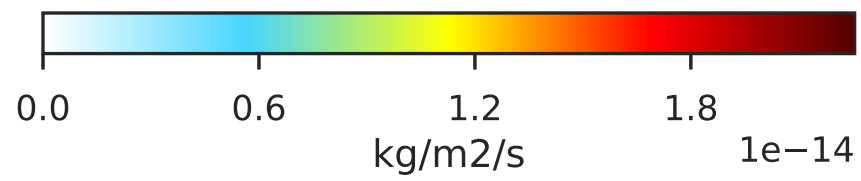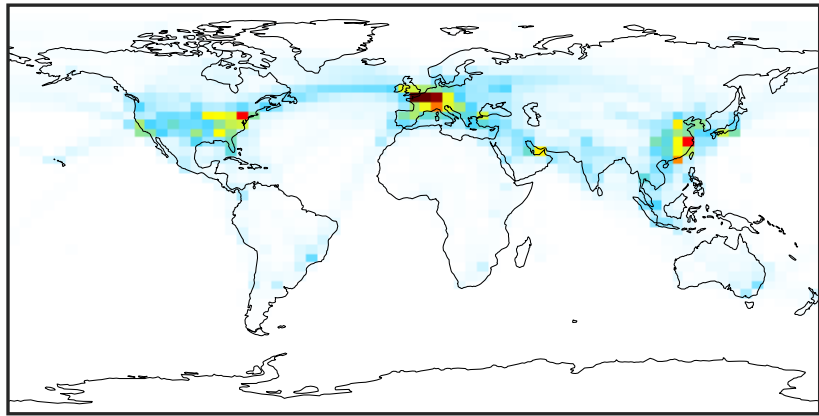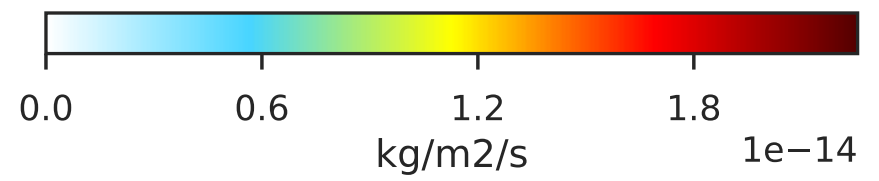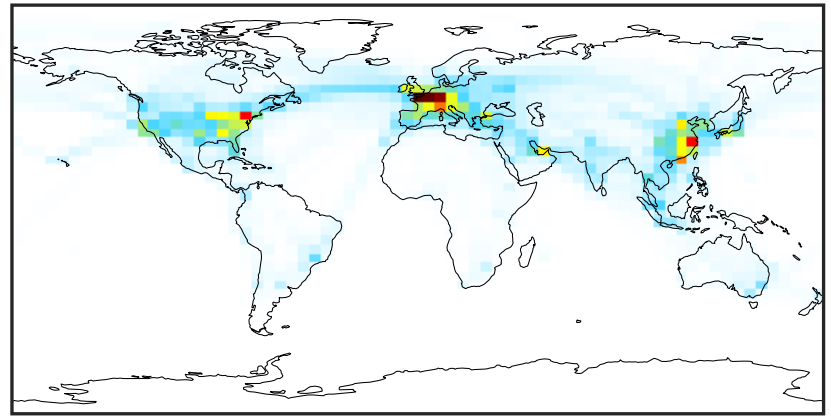
14.2.0-rc.2 (Ref)
4.0x5.0

14.3.0-rc.0 (Dev)
4.0x5.0

kg/m2/s

kg/m2/s
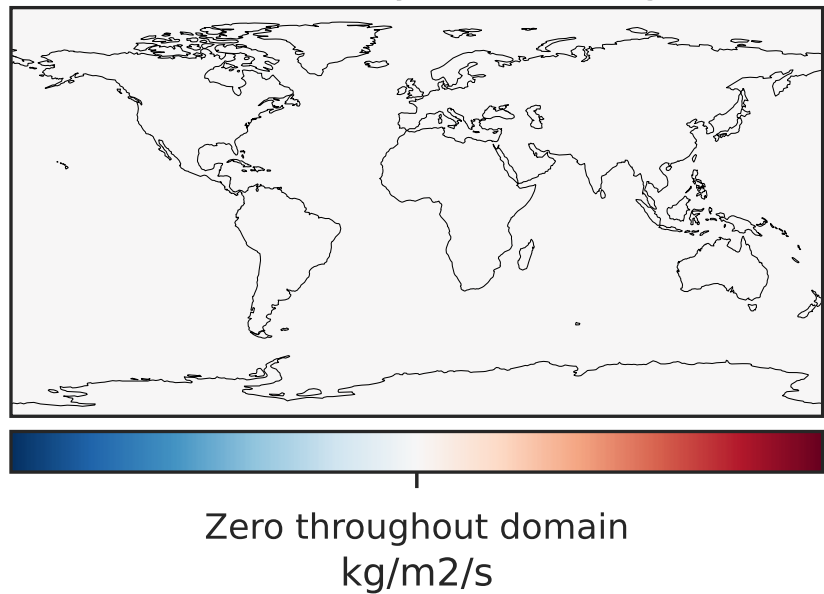
Difference
Dev - Ref, Dynamic Range

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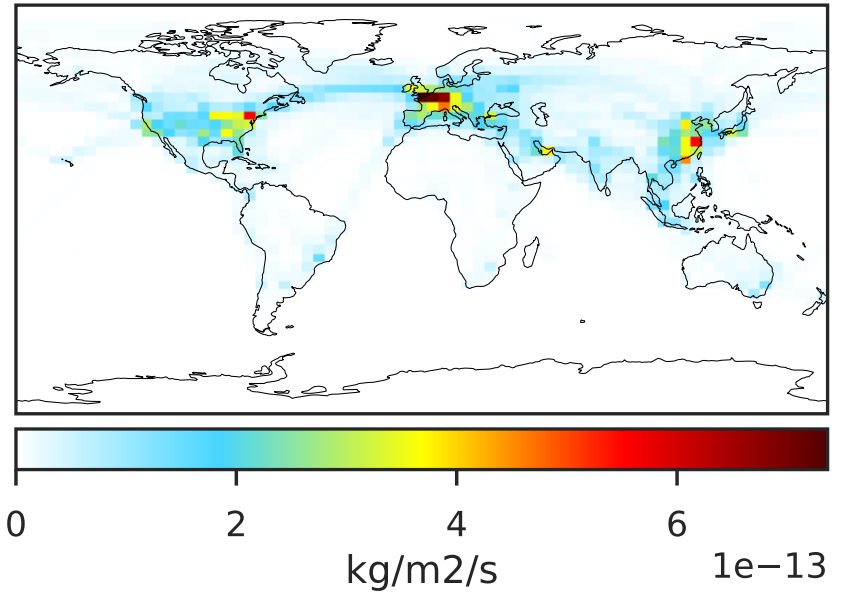### Dev - Ref, Restricted Range [5%,95%]

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

EmisSOAP_Aircraft (Jul2019)

14.2.0-rc.2 (Ref)
4.0x5.0

kg/m2/s

1e−13

14.3.0-rc.0 (Dev)
4.0x5.0
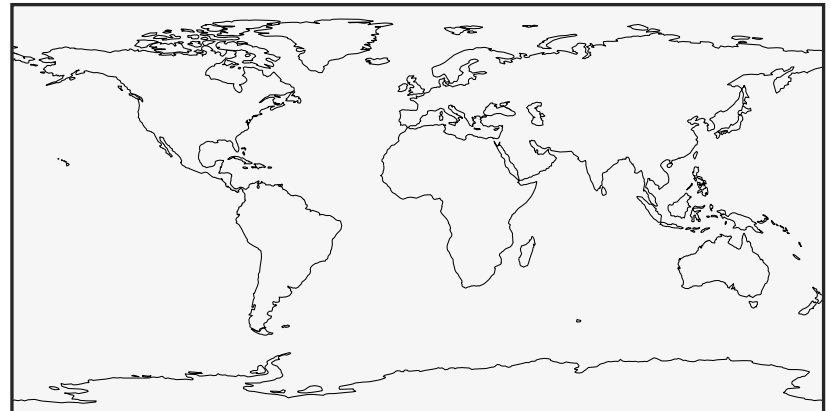

kg/m2/s

1e−13

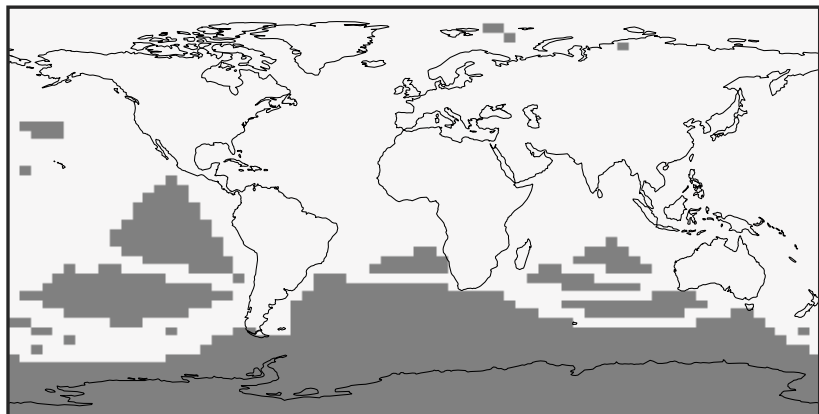## Difference
Dev - Ref, Dynamic Range

Zero throughout domain
kg/m2/s

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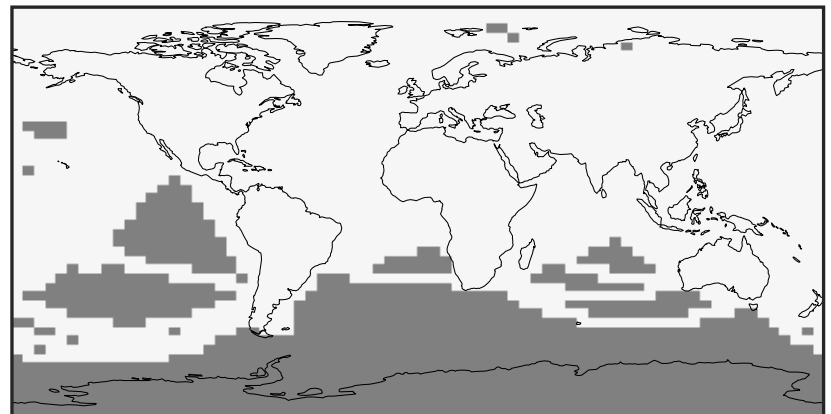### Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range
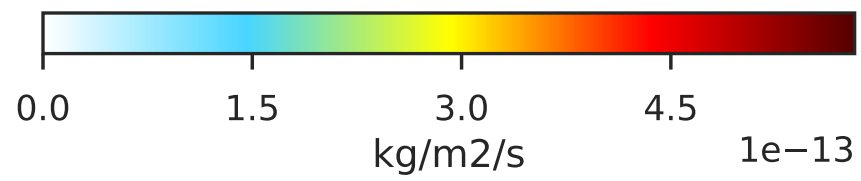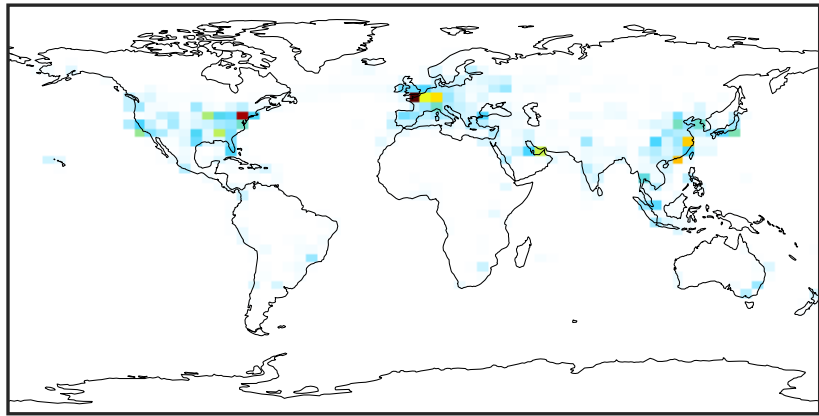

Ref and Dev equal throughout domain
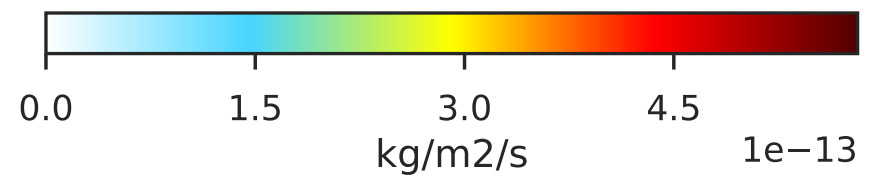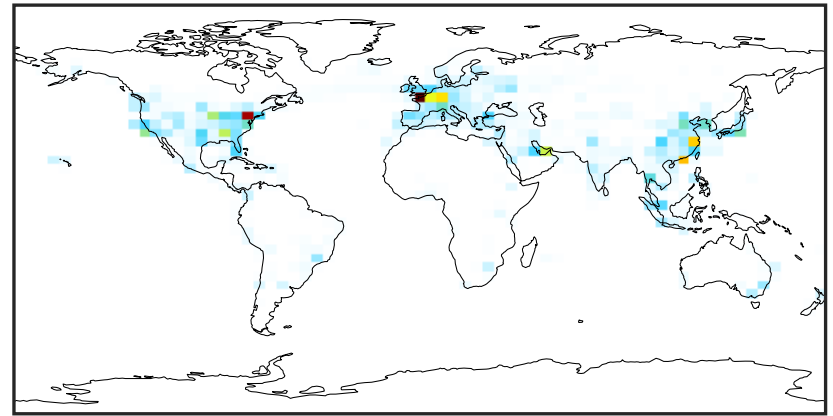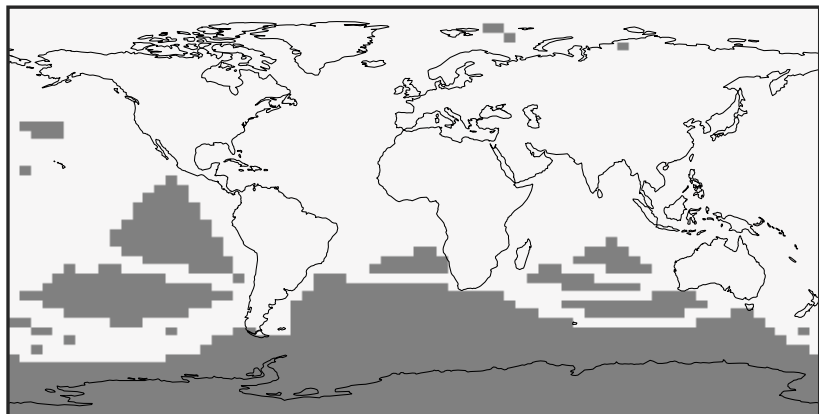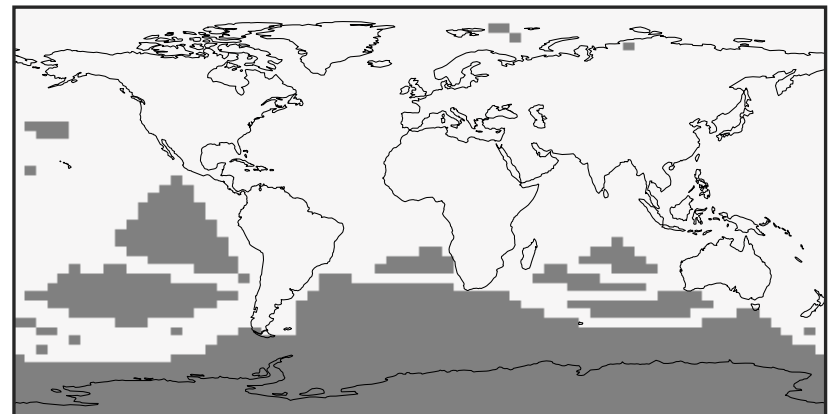unitless

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless