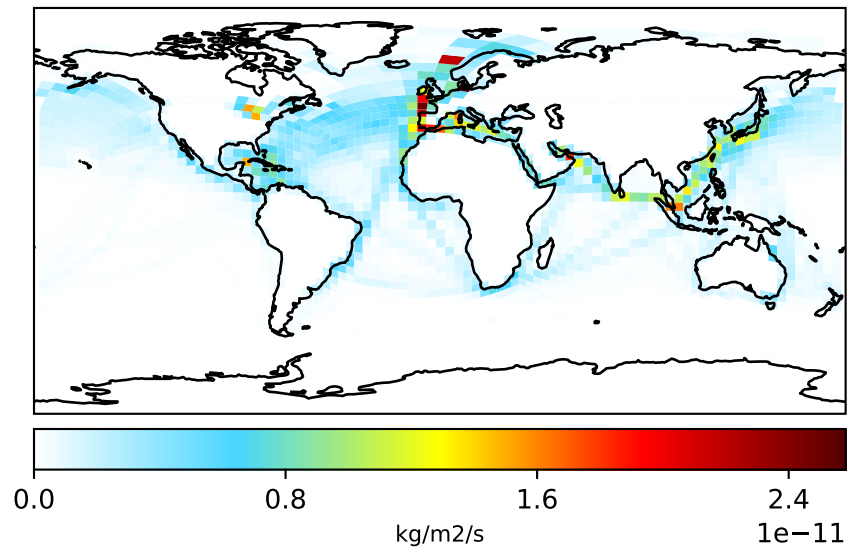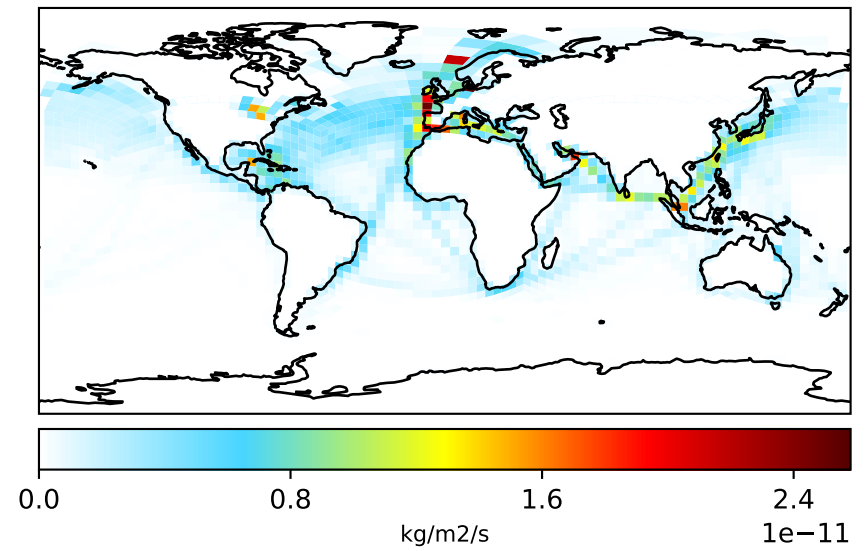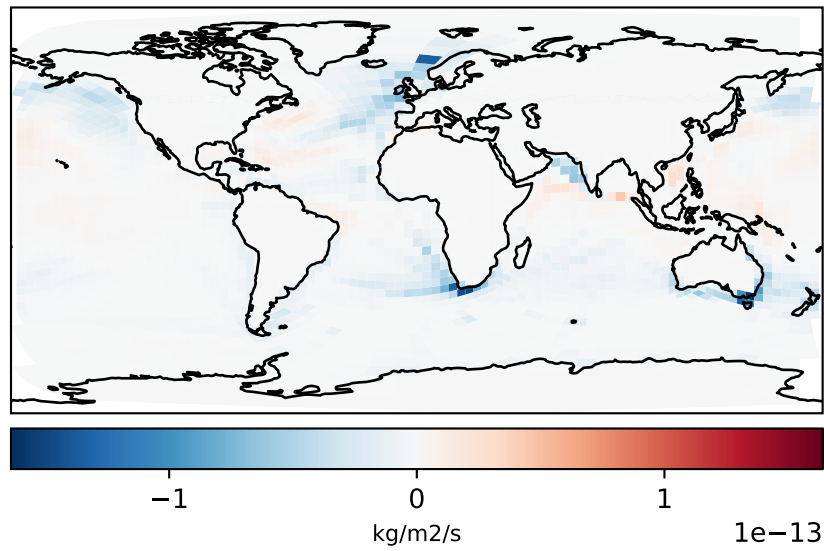# EmisHNO3_Ship

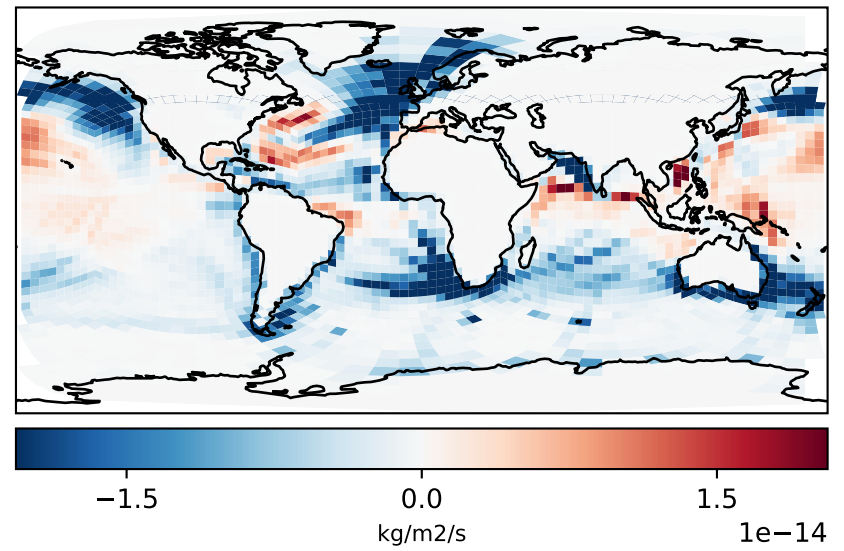Processed GEOS-FP input, 3-hr winds (Ref)
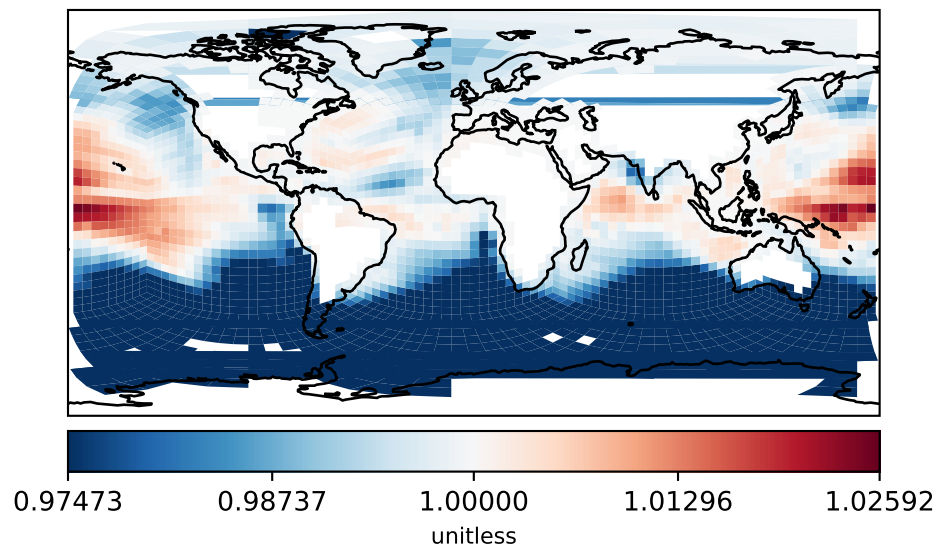c24

Raw GEOS-FP input, 3-hr winds (Dev)
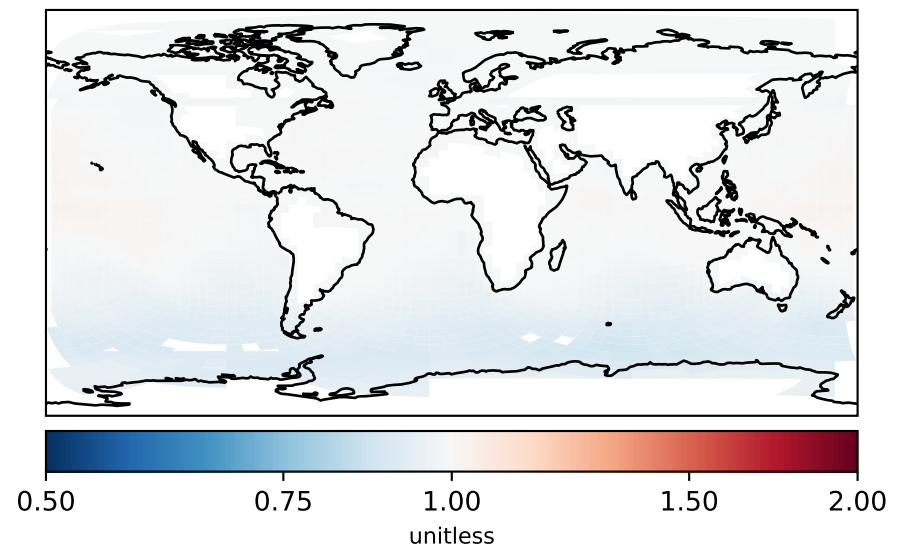c24

Difference
Dev - Ref, Dynamic Range

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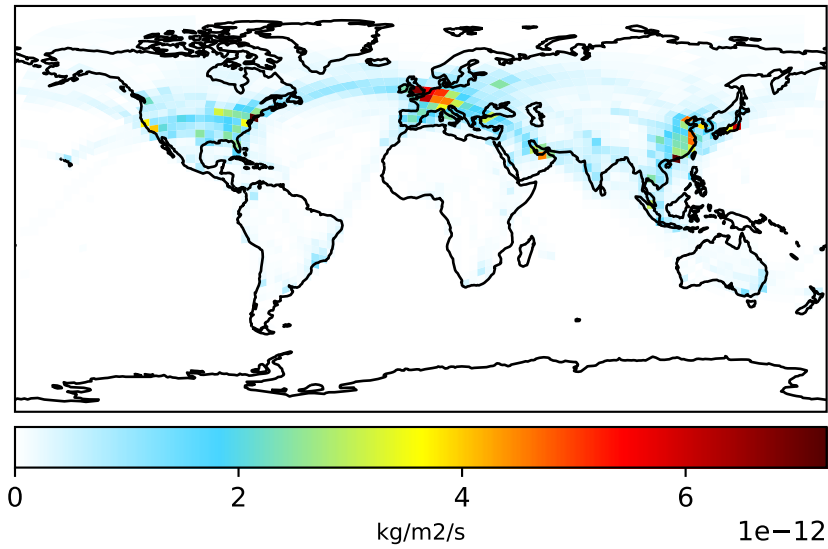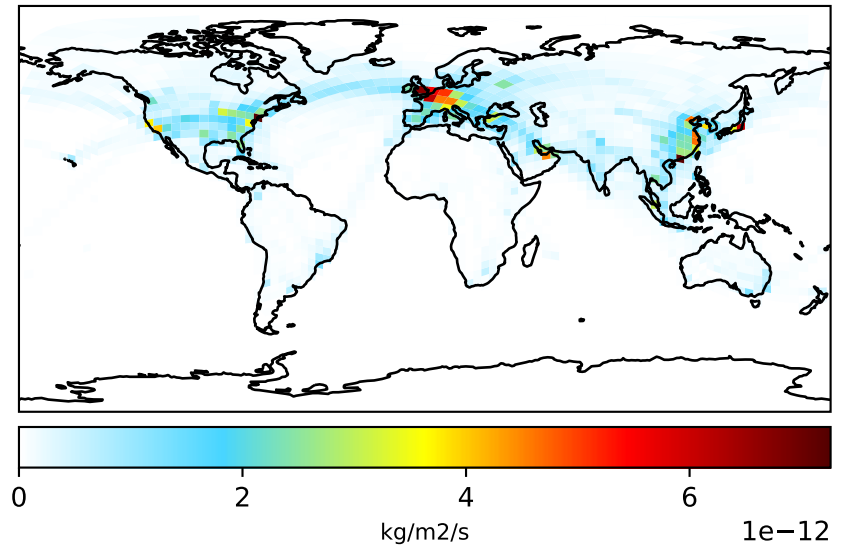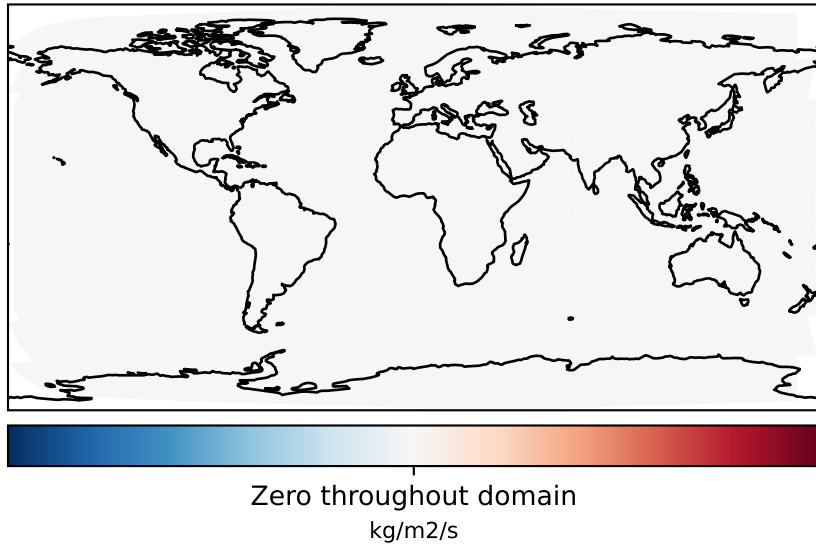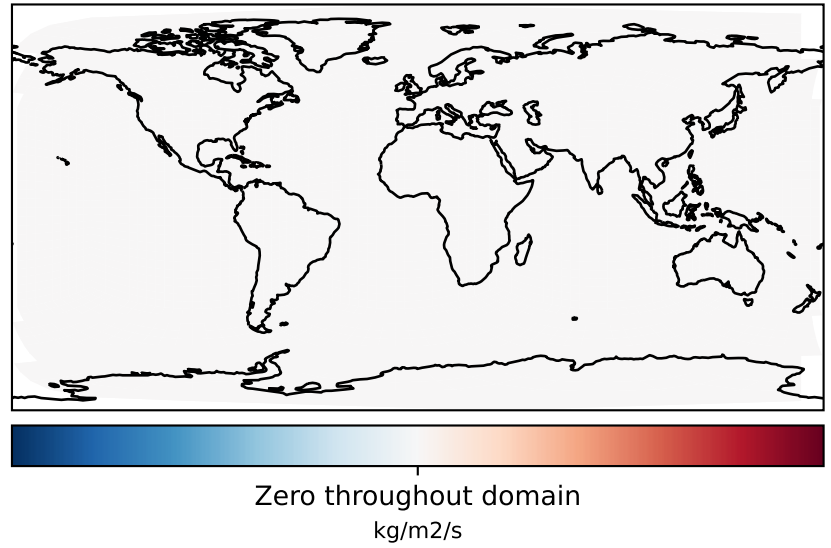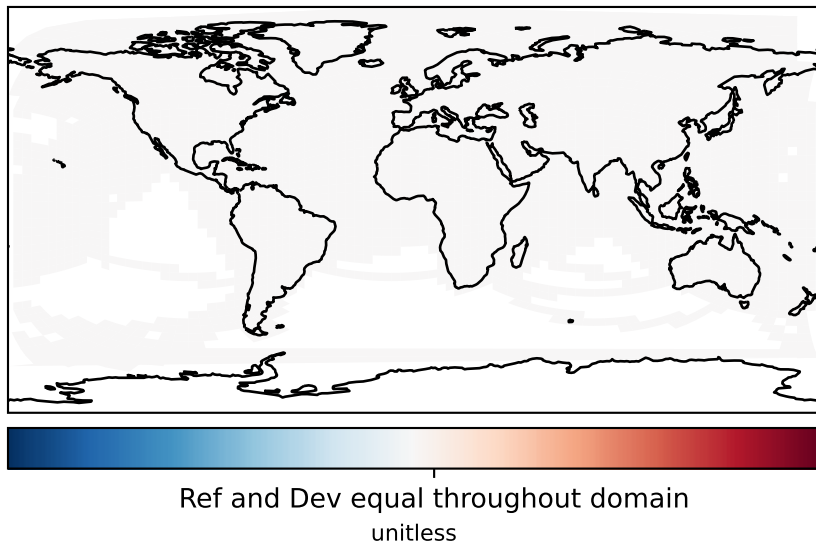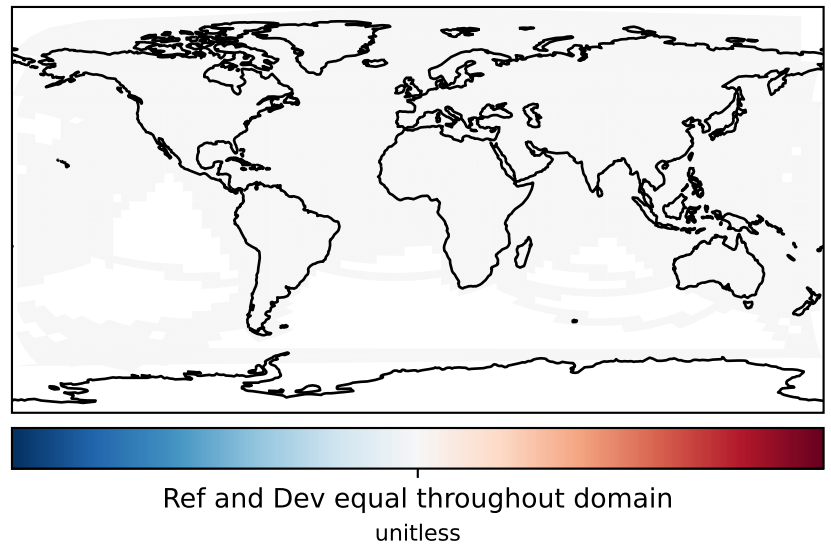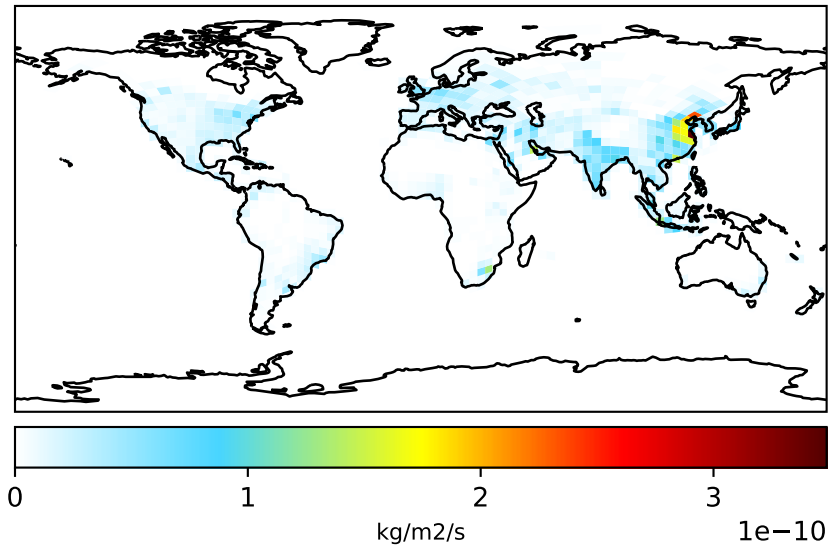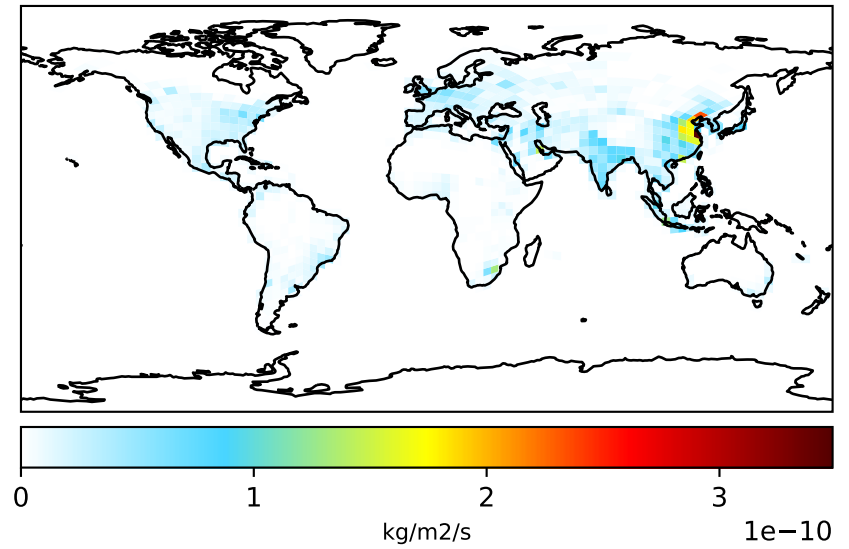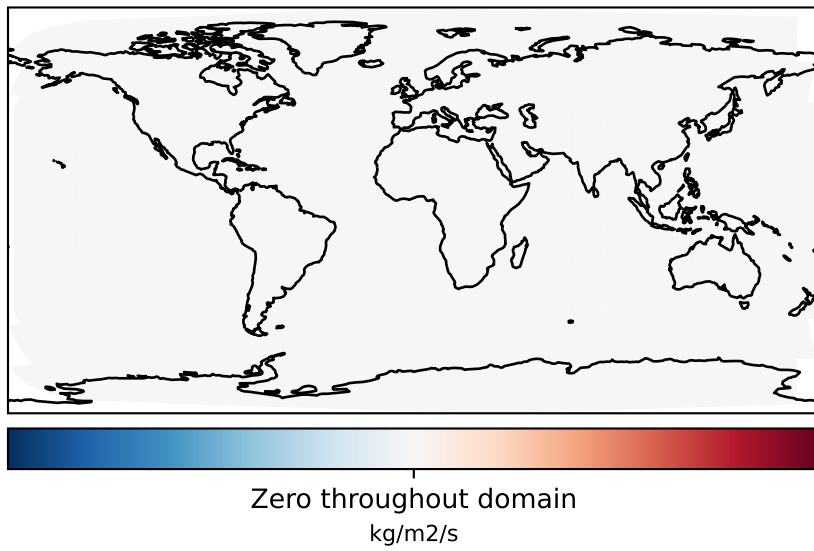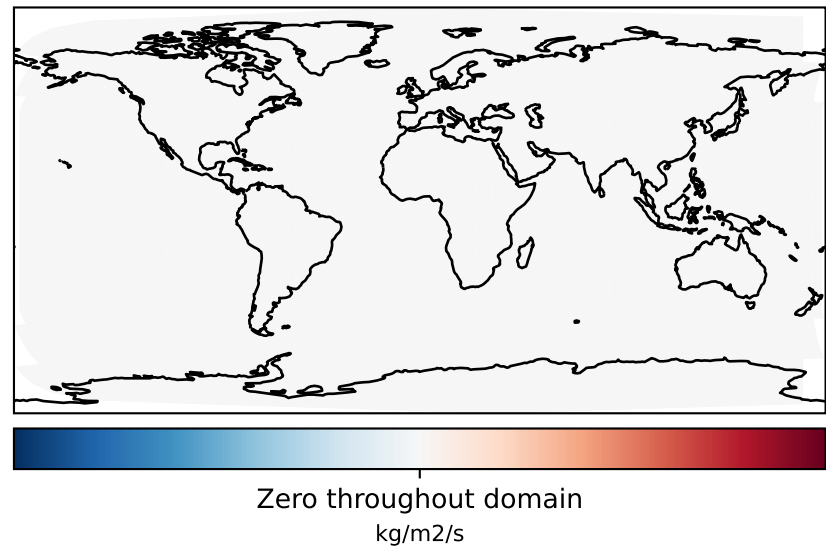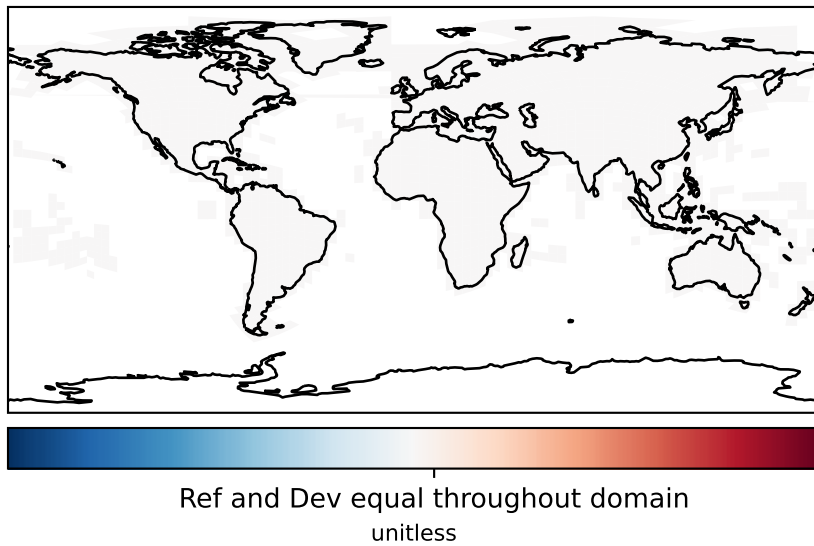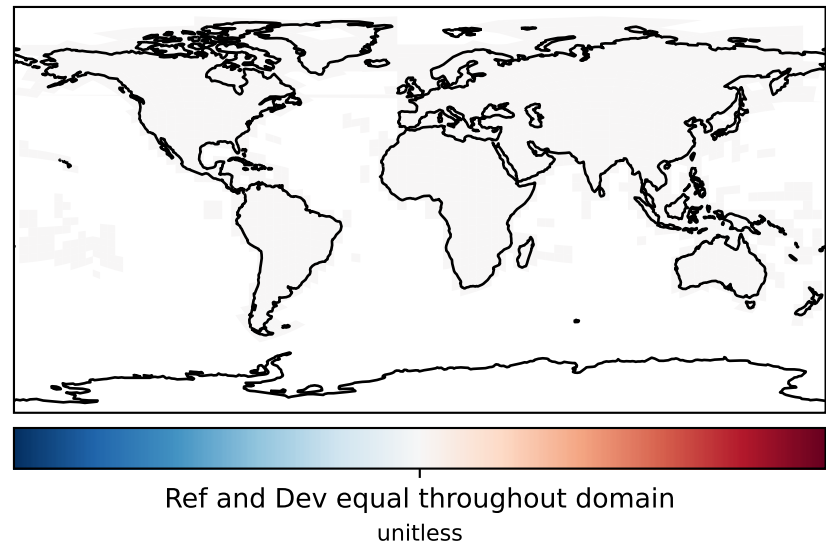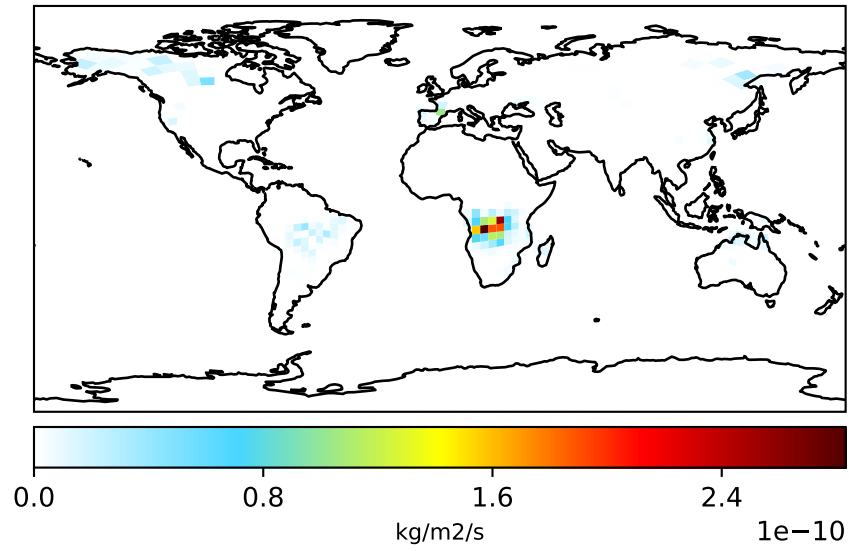
Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

EmisNO_Aircraft

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

1e−12

kg/m2/s

1e−12

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

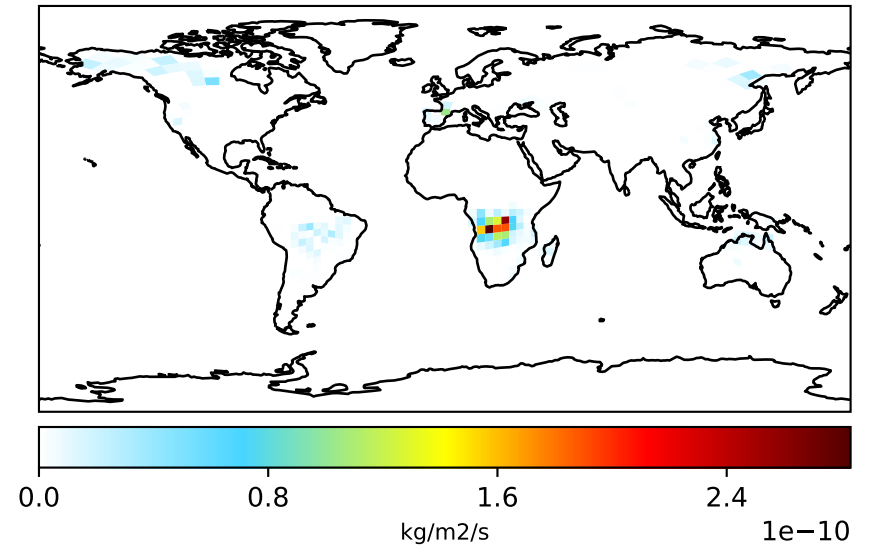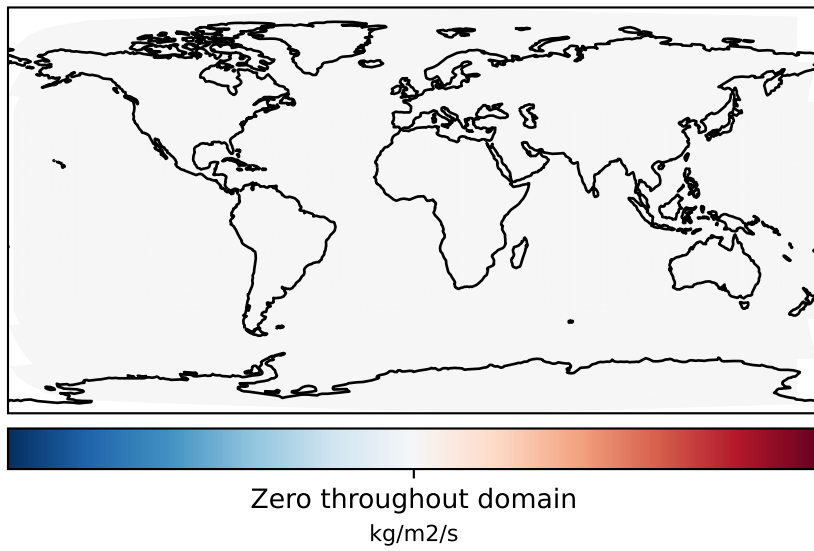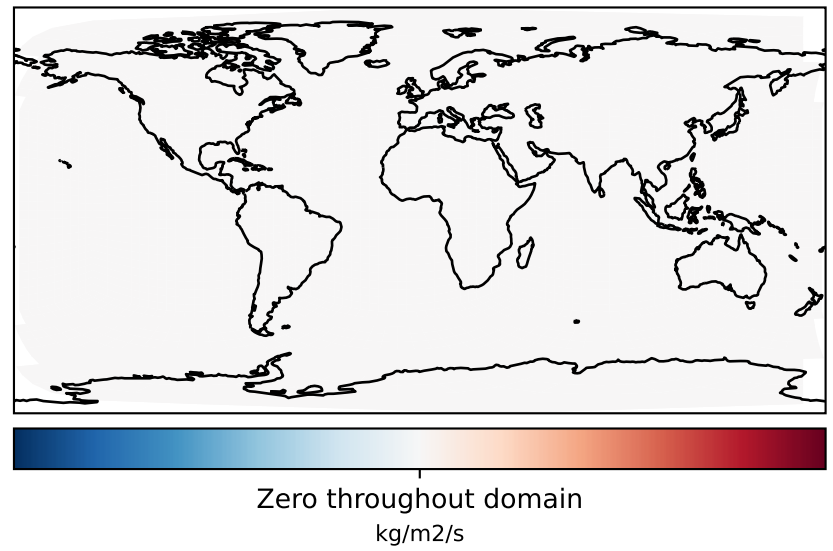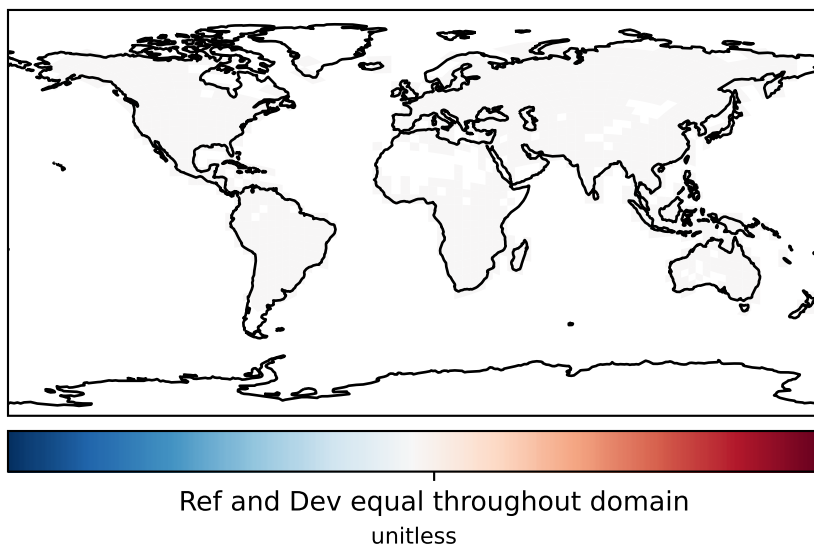Ref and Dev equal throughout domain
unitless

EmisNO_Anthro

EmisNO_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
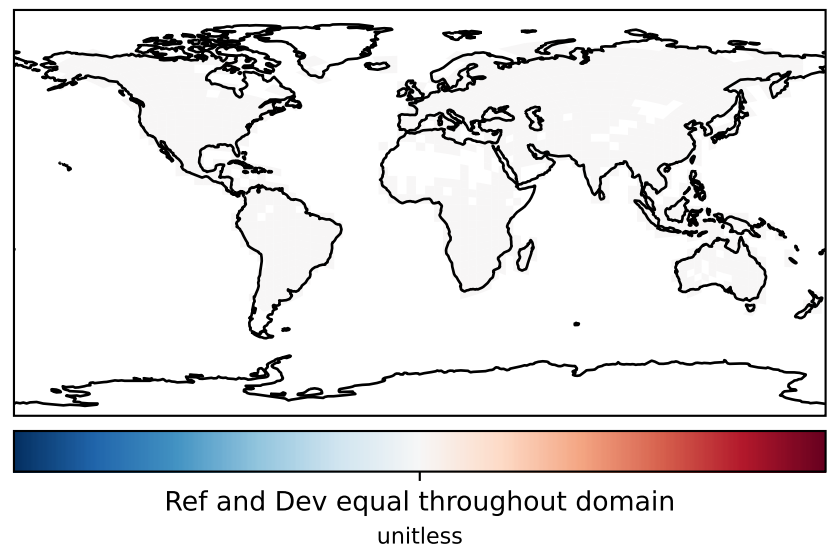c24

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

EmisNO_Lightning

EmisNO_Ship

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

Difference
Dev - Ref, Dynamic Range

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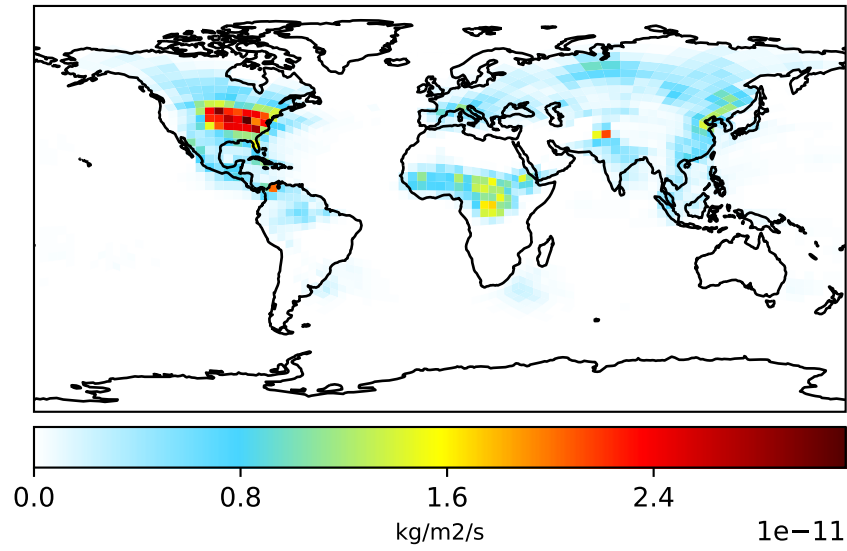Dev - Ref, Restricted Range [5%,95%]

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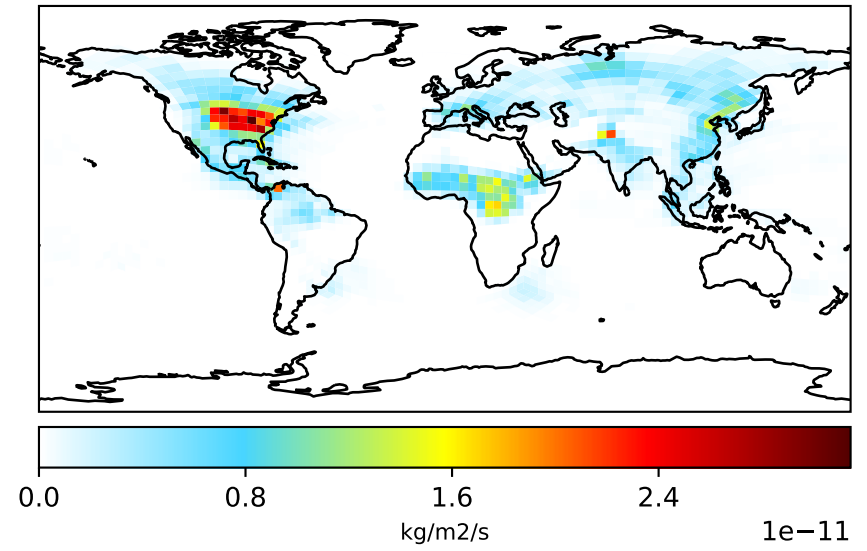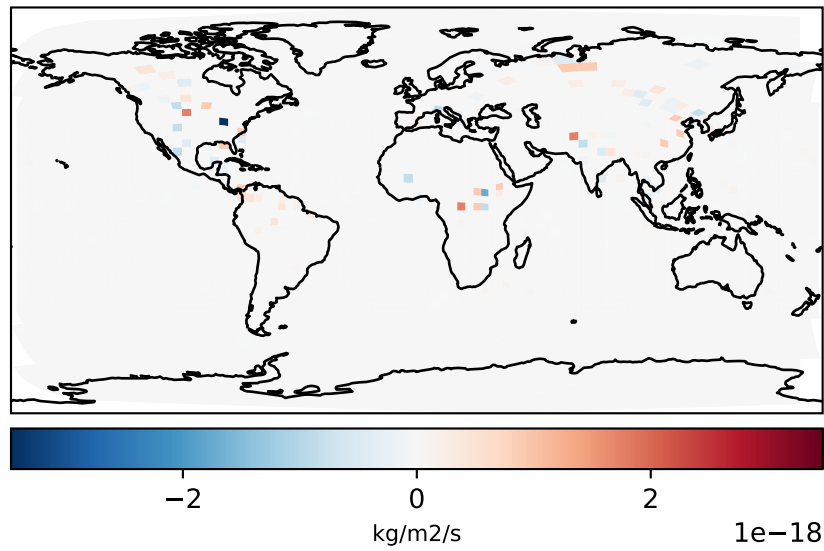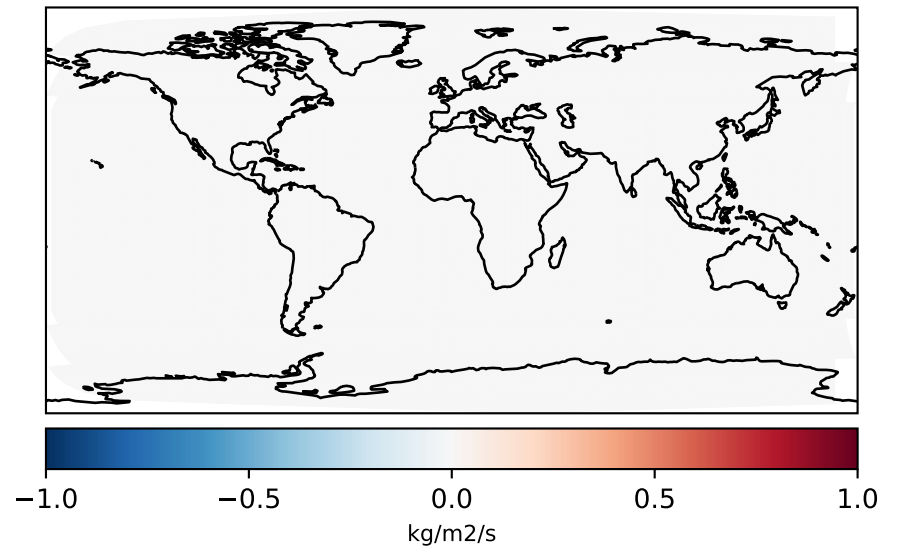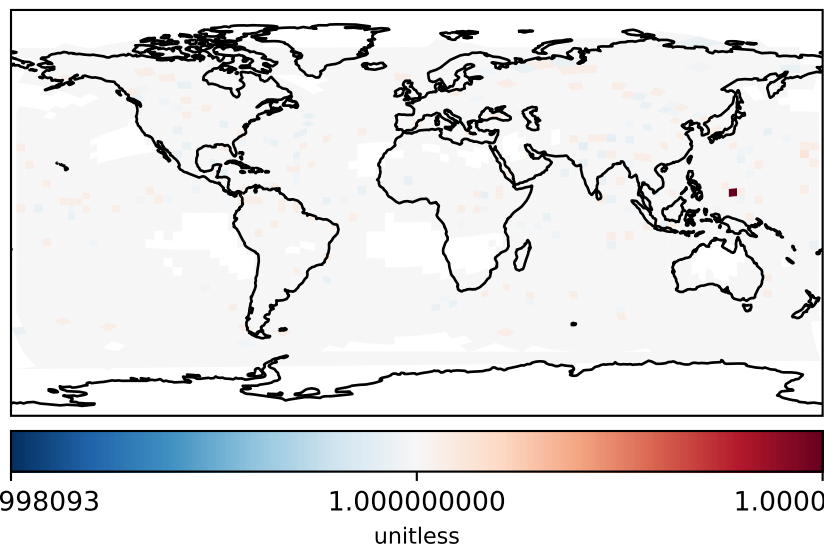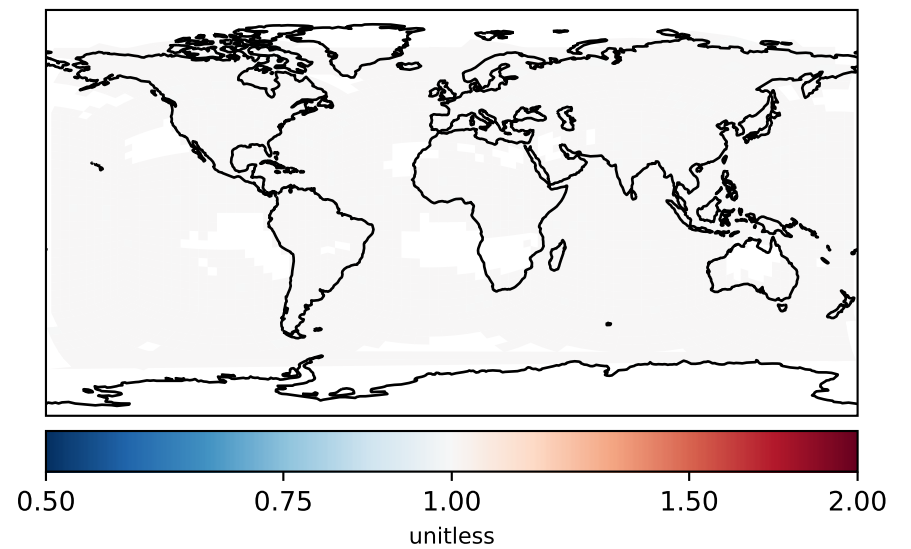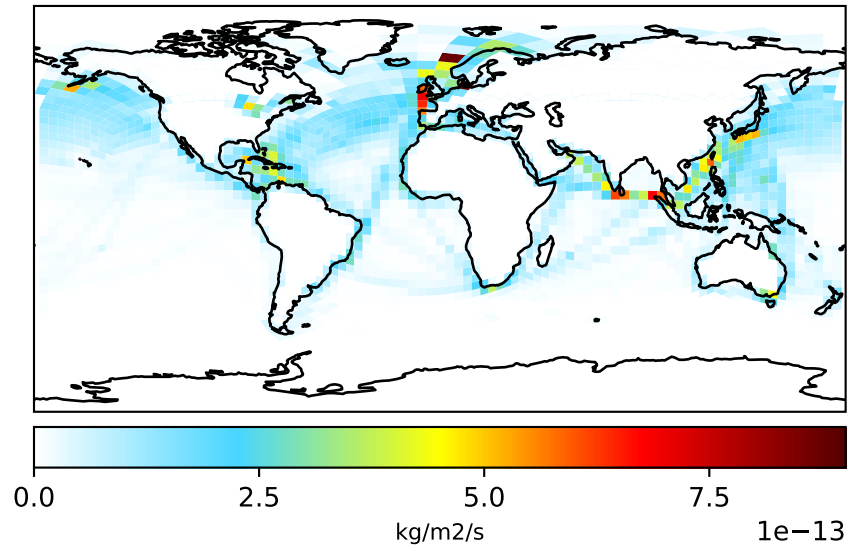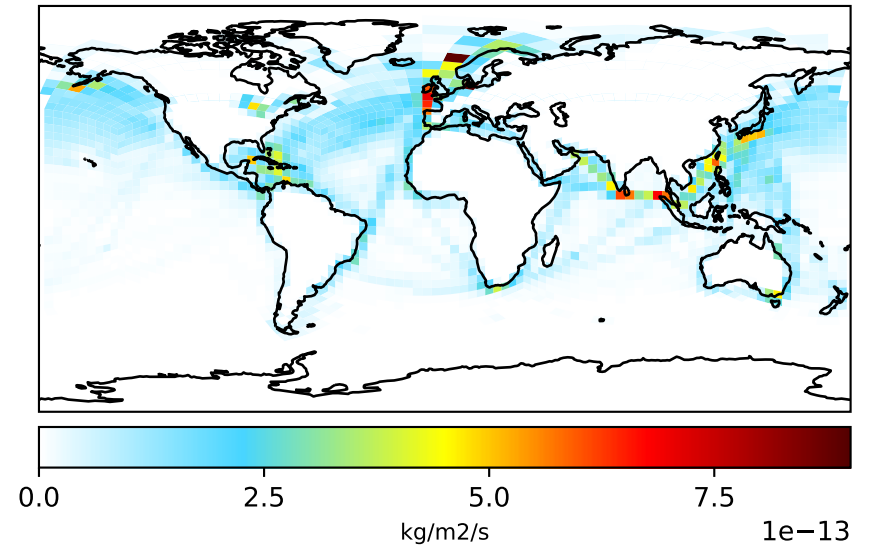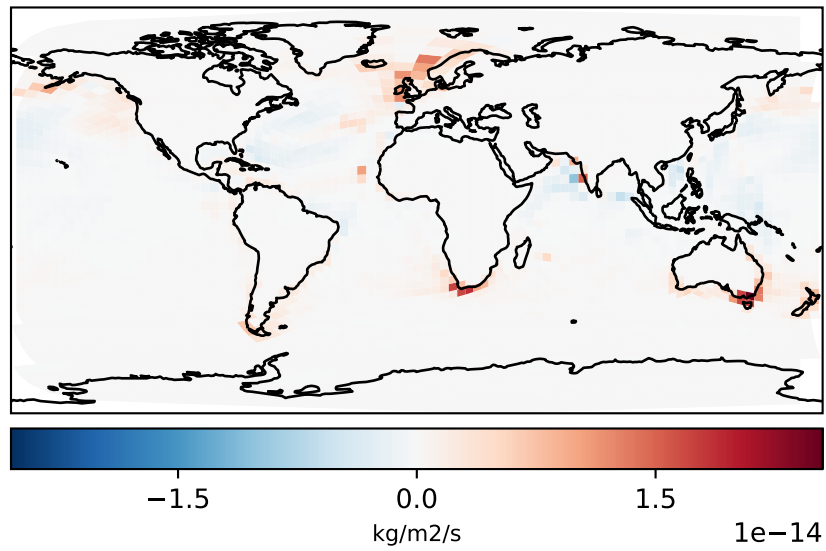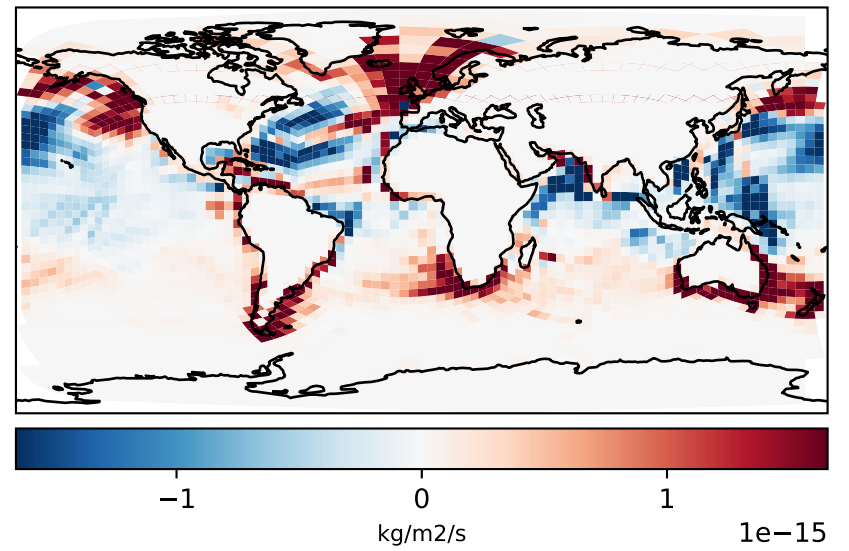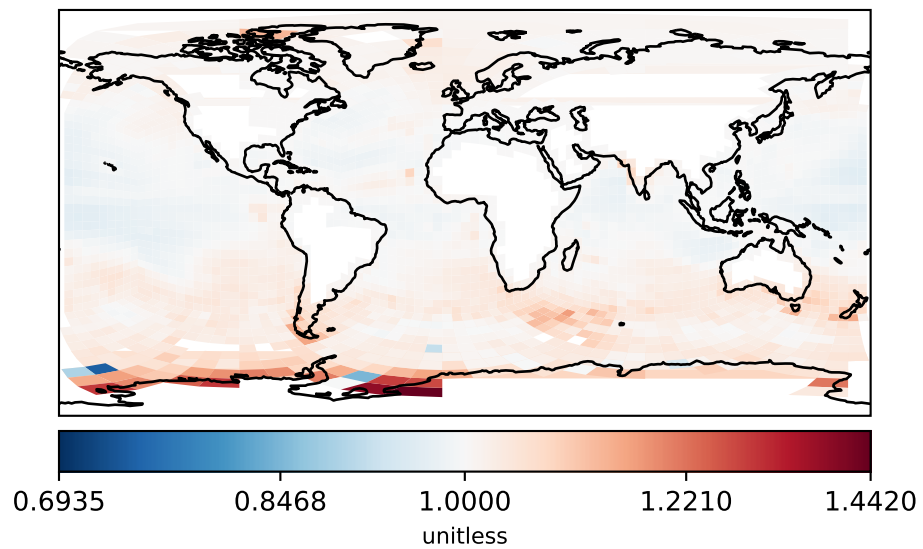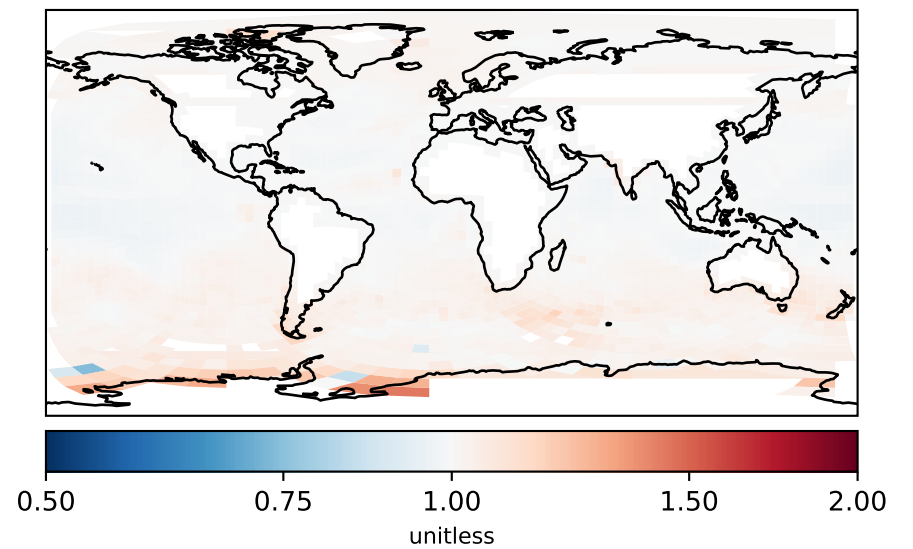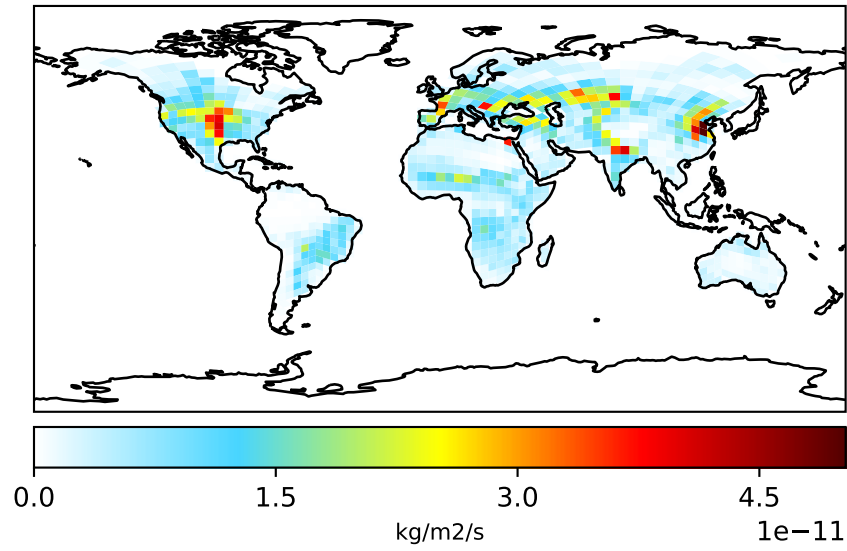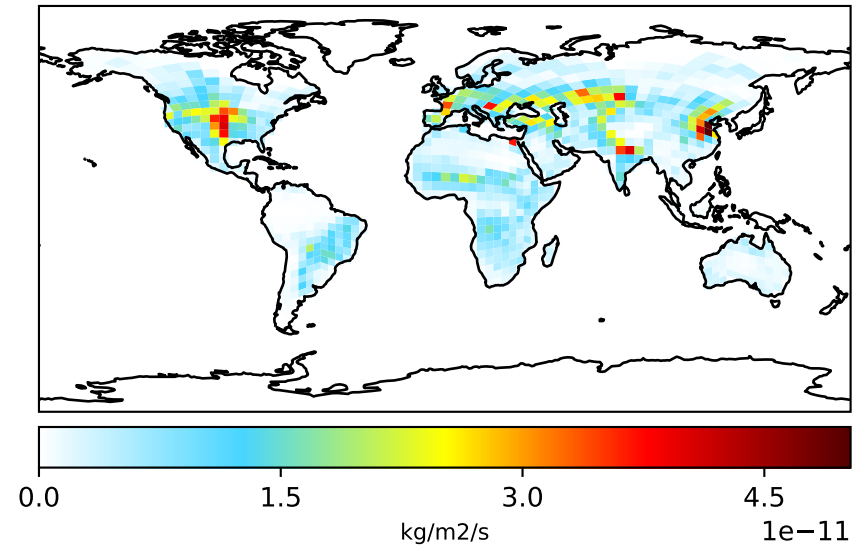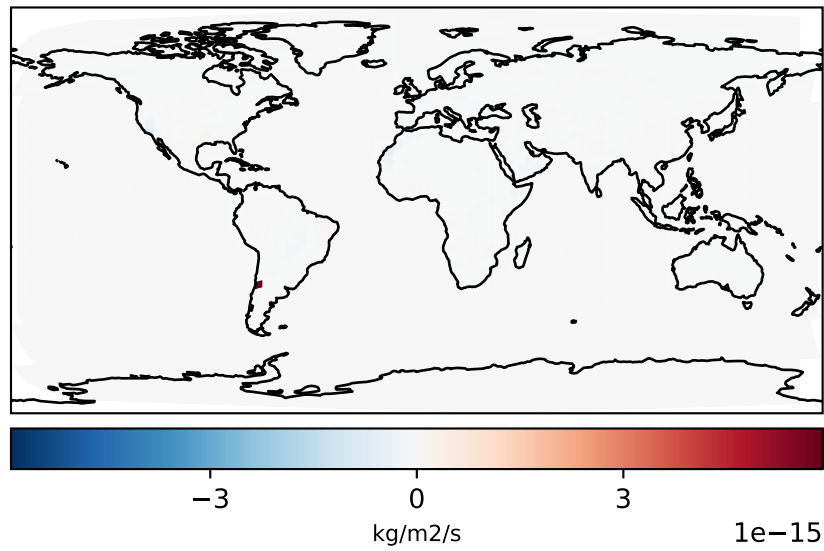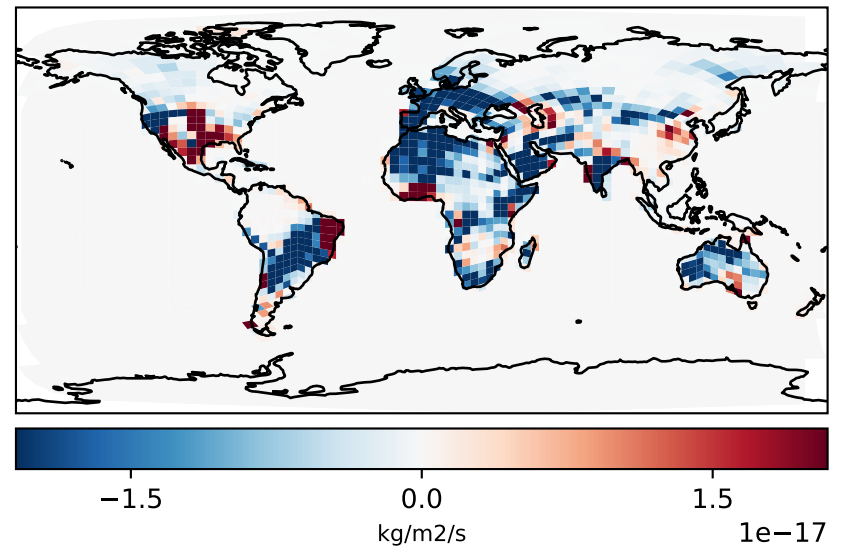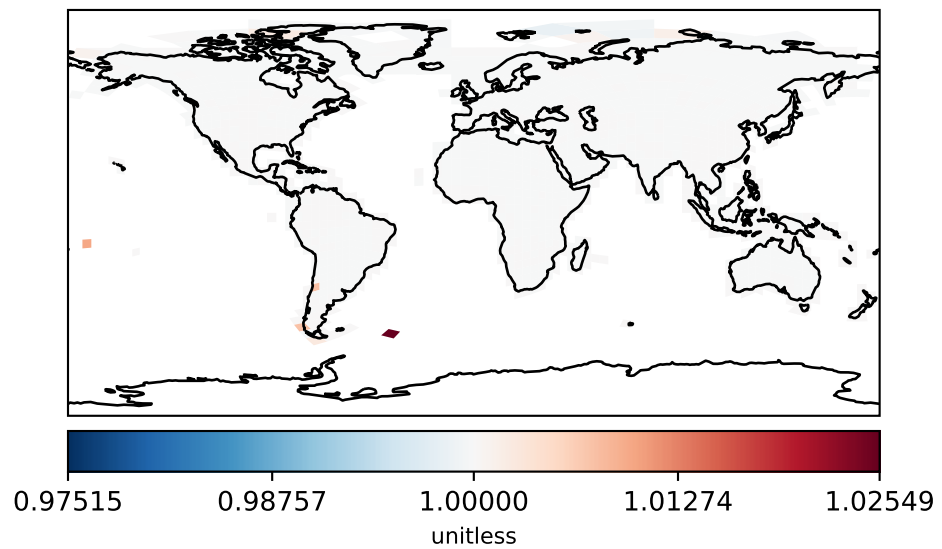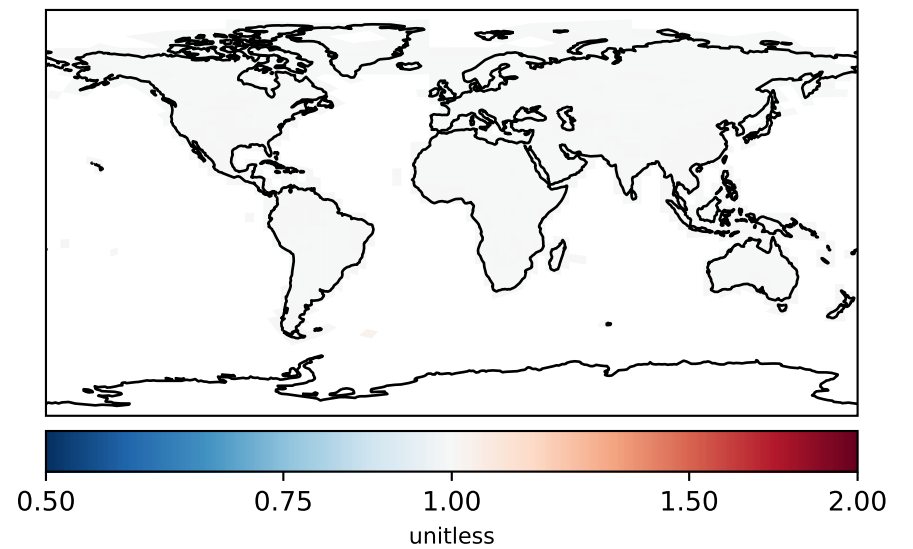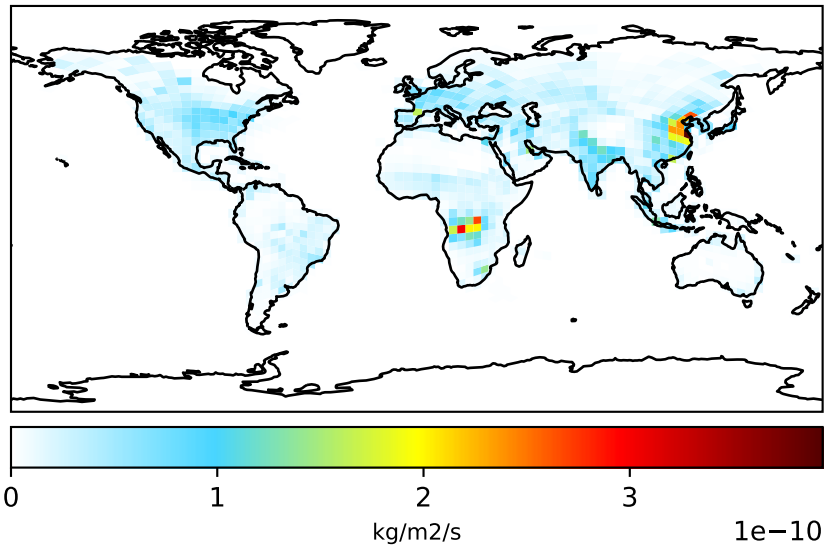
Ratio
Dev/Ref, Dynamic Range
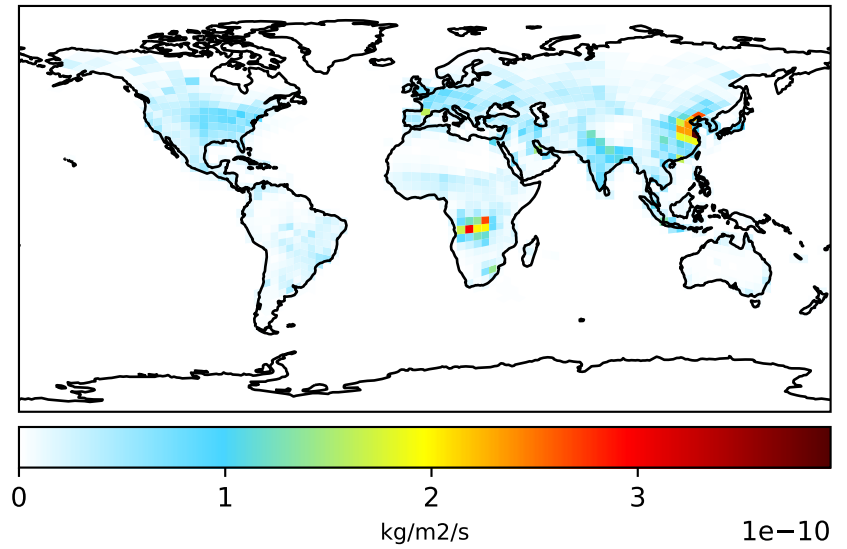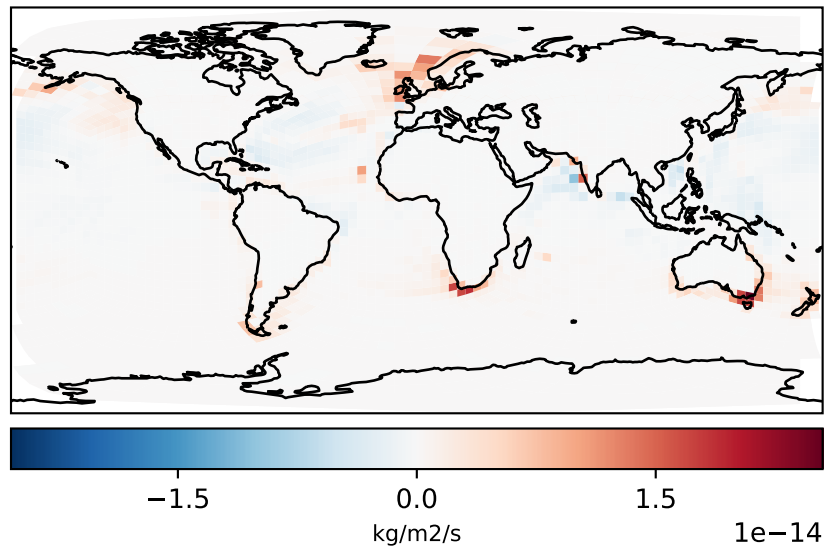
Ratio
Dev/Ref, Fixed Range

unitless

EmisNO_Soil
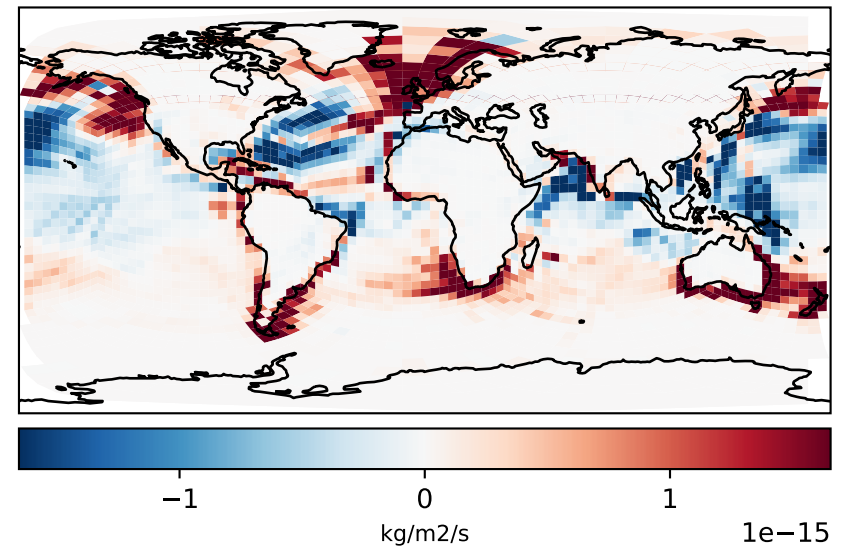

Processed GEOS-FP input, 3-hr winds (Ref) c24	Raw GEOS-FP input, 3-hr winds (Dev) c24
Difference Dev - Ref, Dynamic Range	Difference Dev - Ref, Restricted Range [5%,95%]
Ratio Dev/Ref, Dynamic Range	Ratio Dev/Ref, Fixed Range

EmisNO_Total

EmisNO2_Aircraft

EmisNO2_Ship

Processed GEOS-FP input, 3-hr winds (Ref)
c24

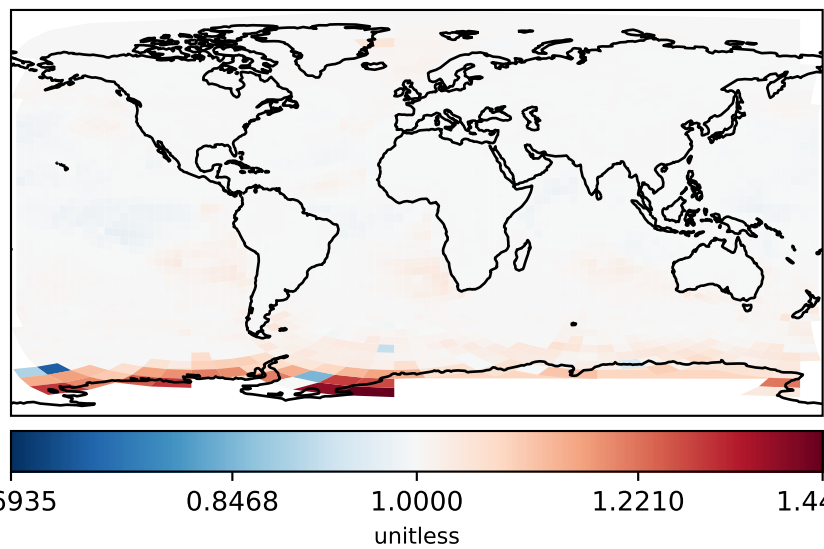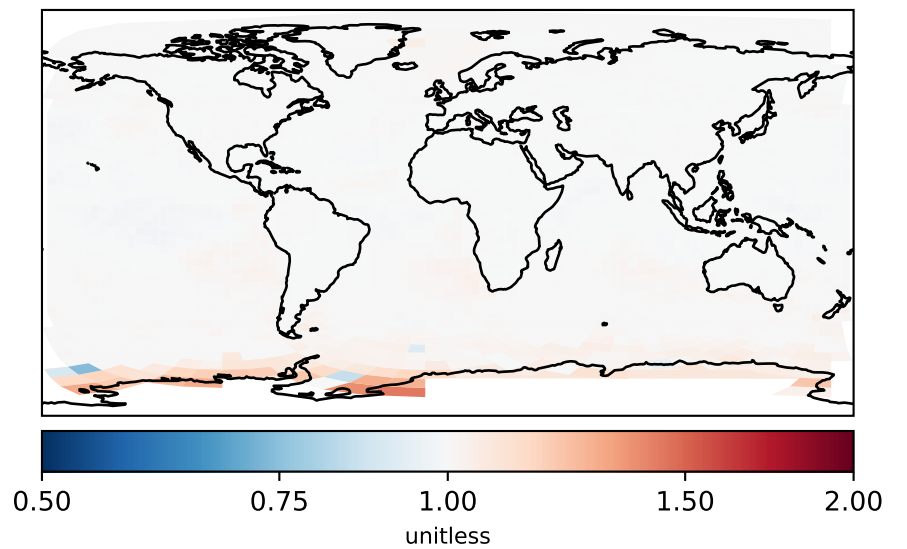Raw GEOS-FP input, 3-hr winds (Dev)
c24

Difference
Dev - Ref, Dynamic Range

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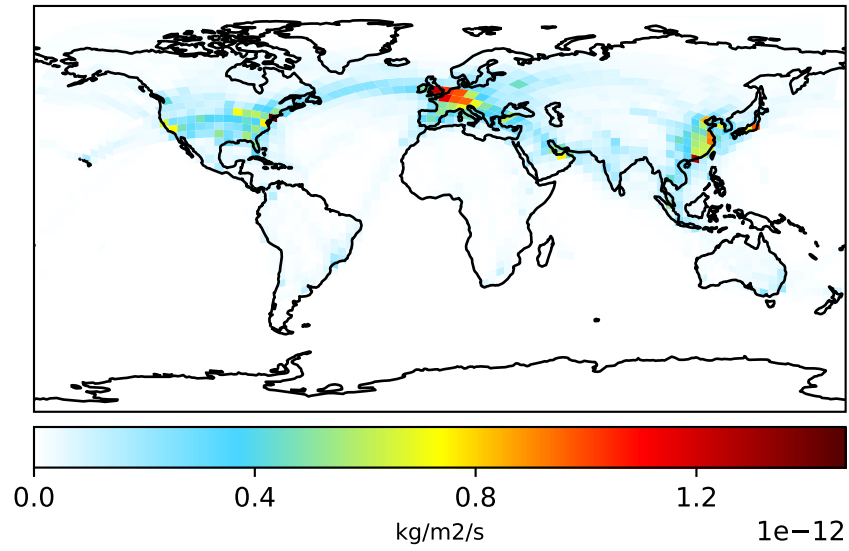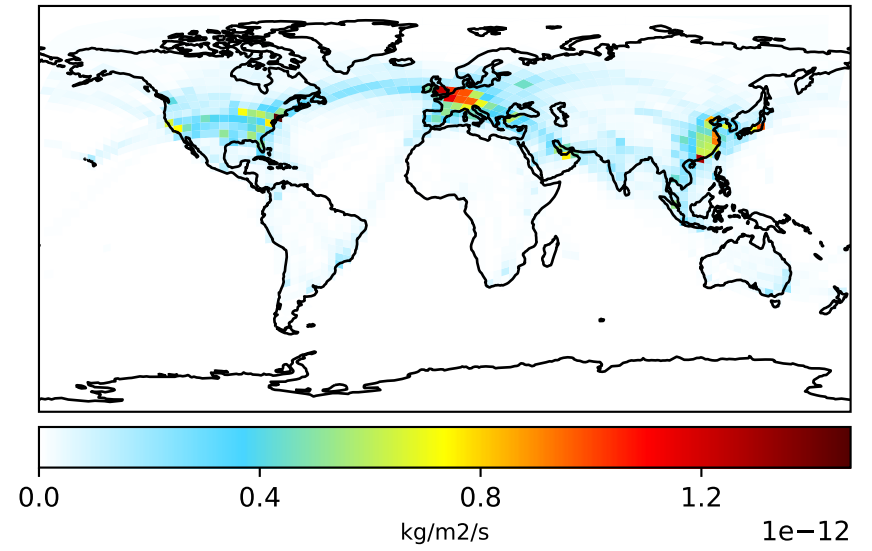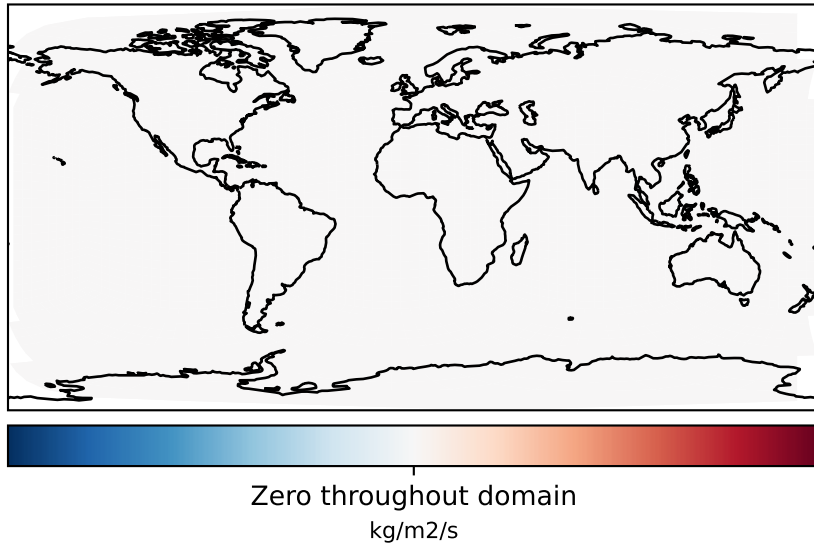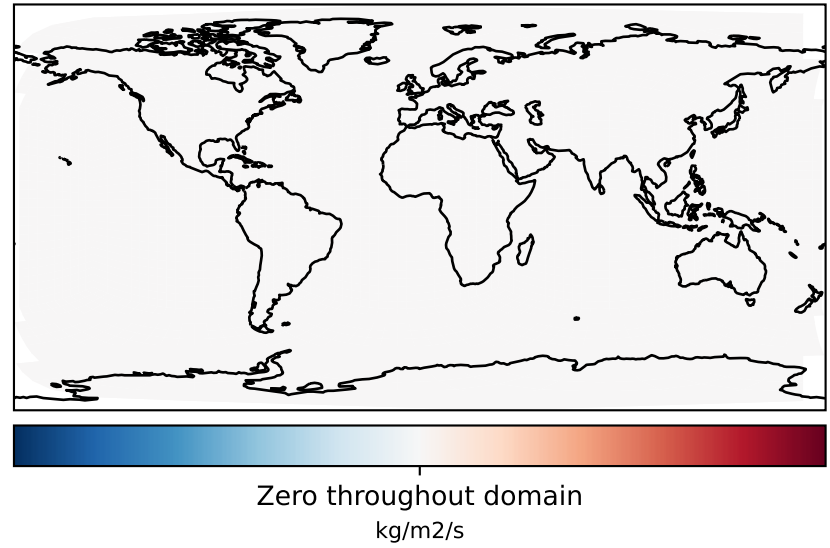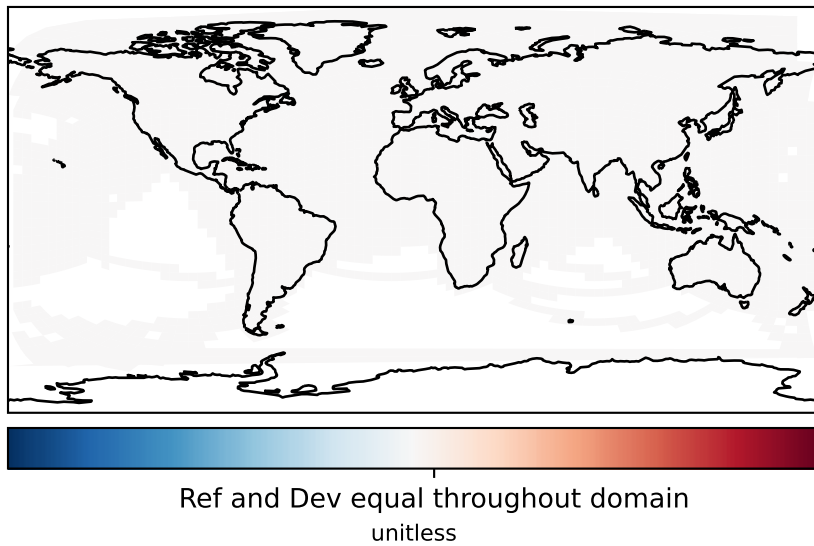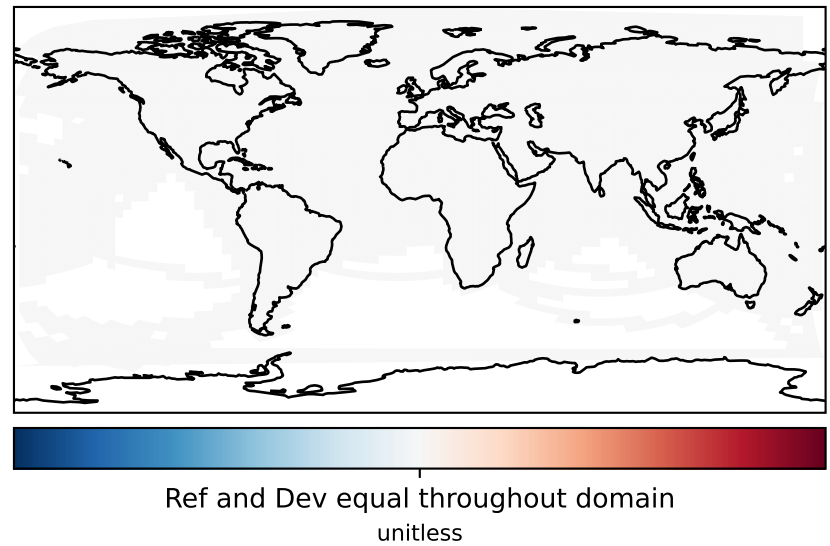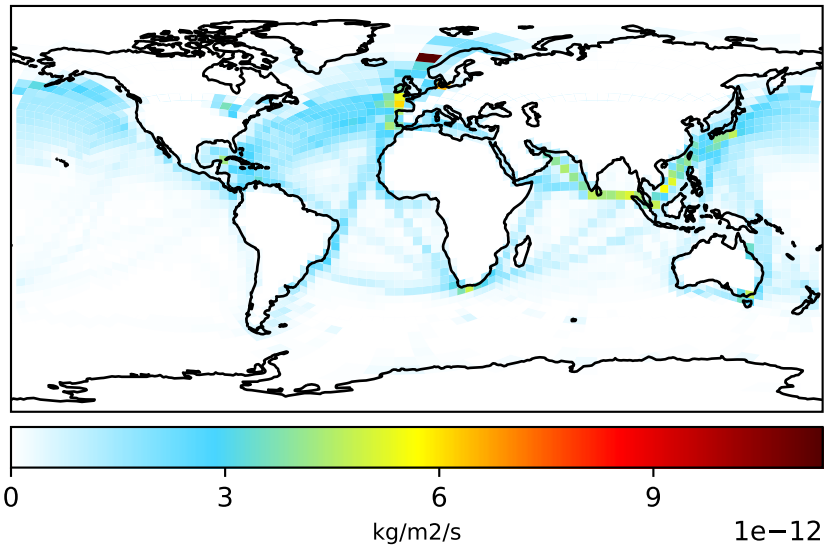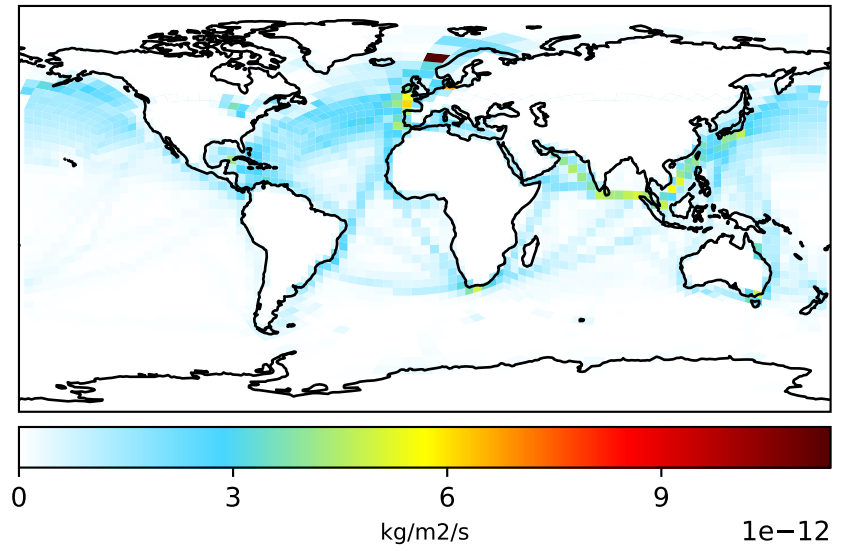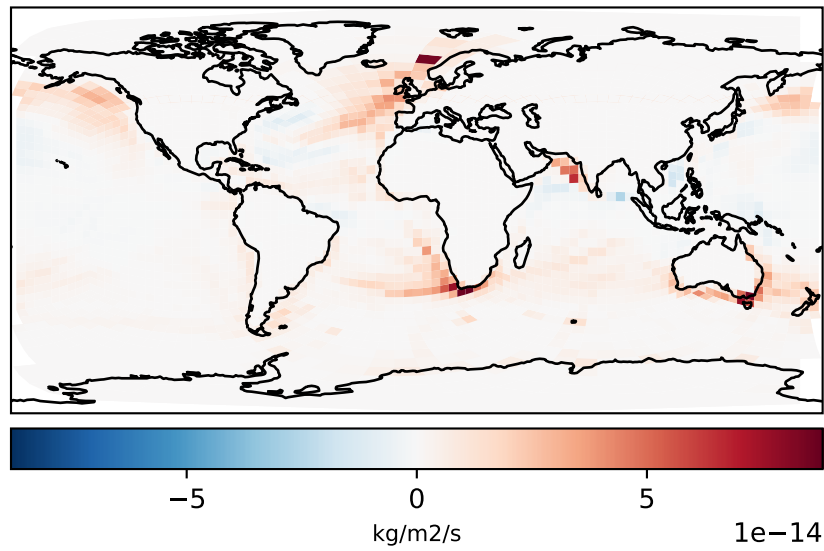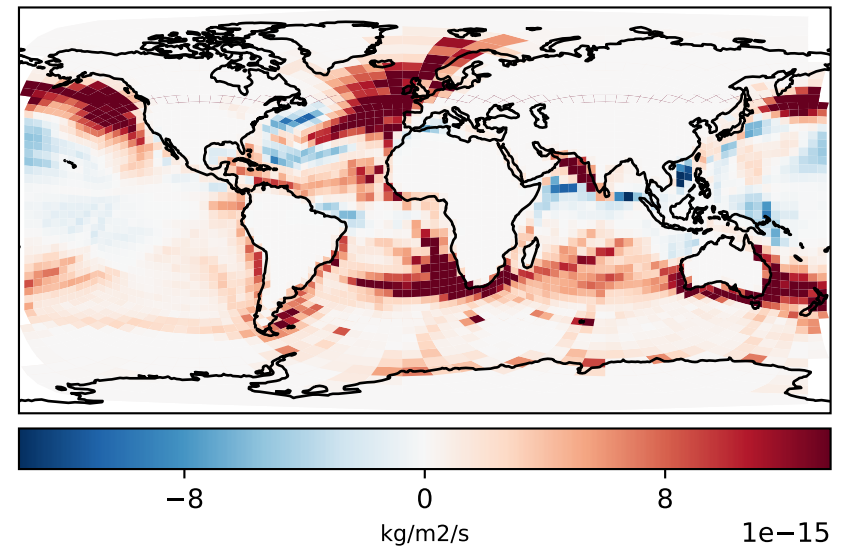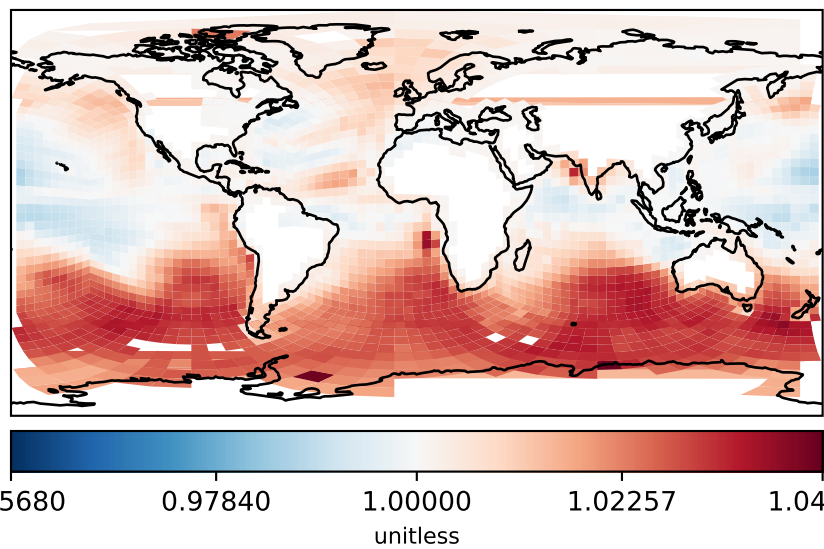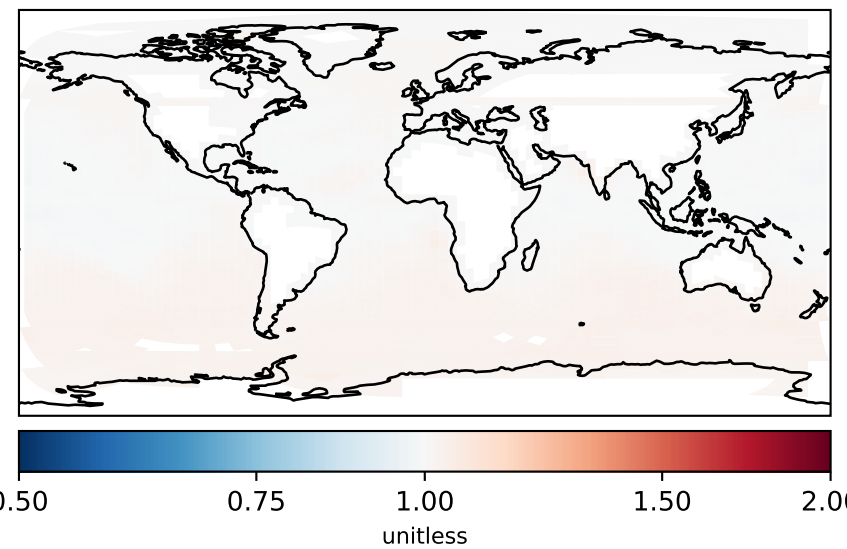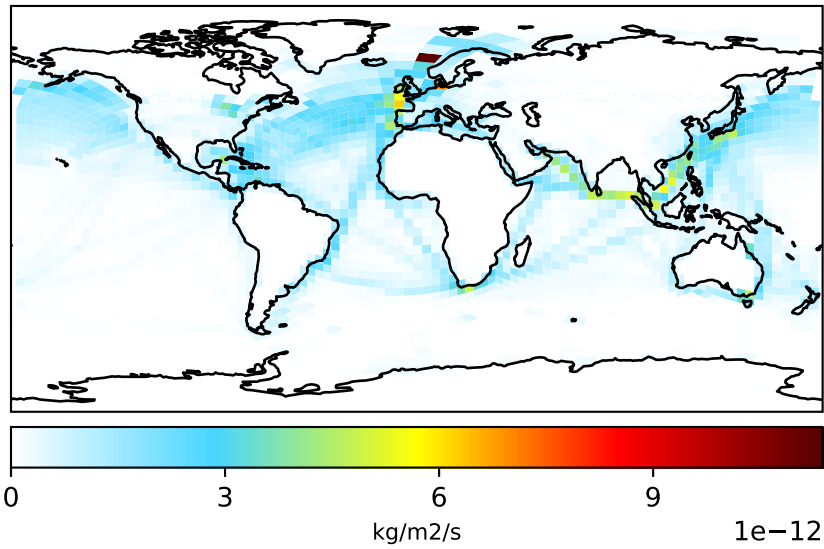
Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

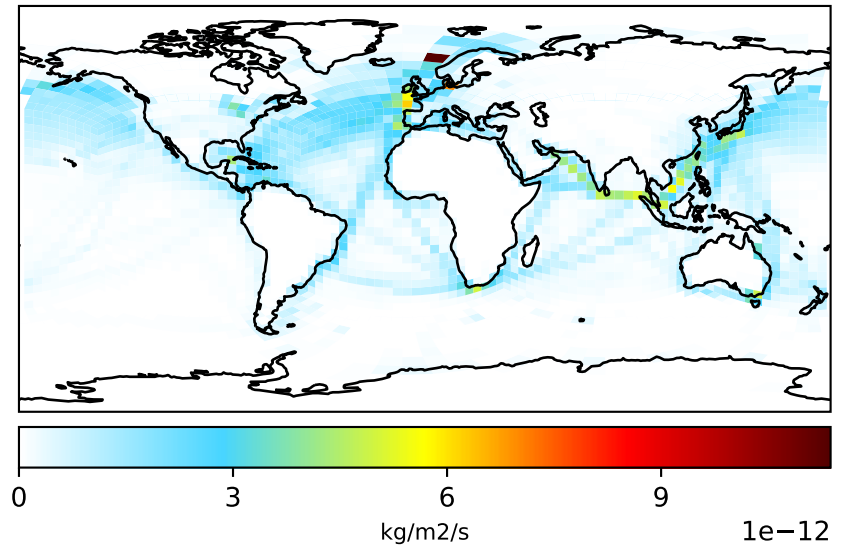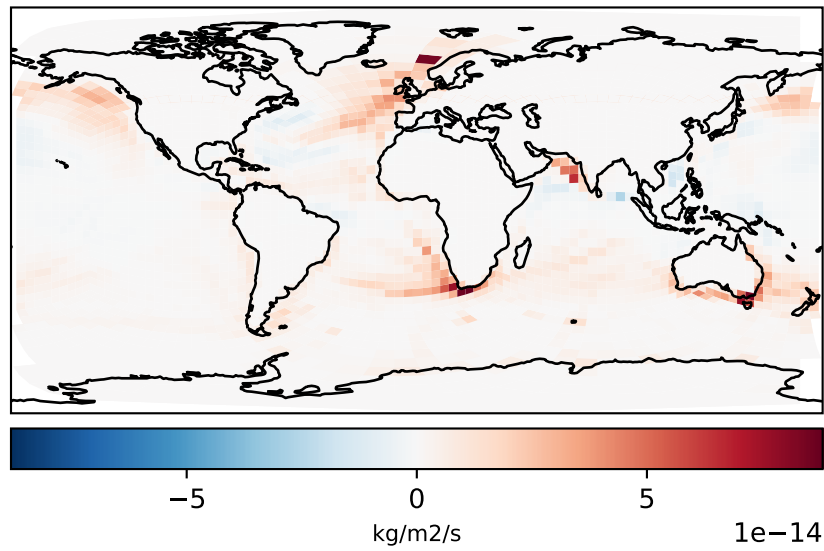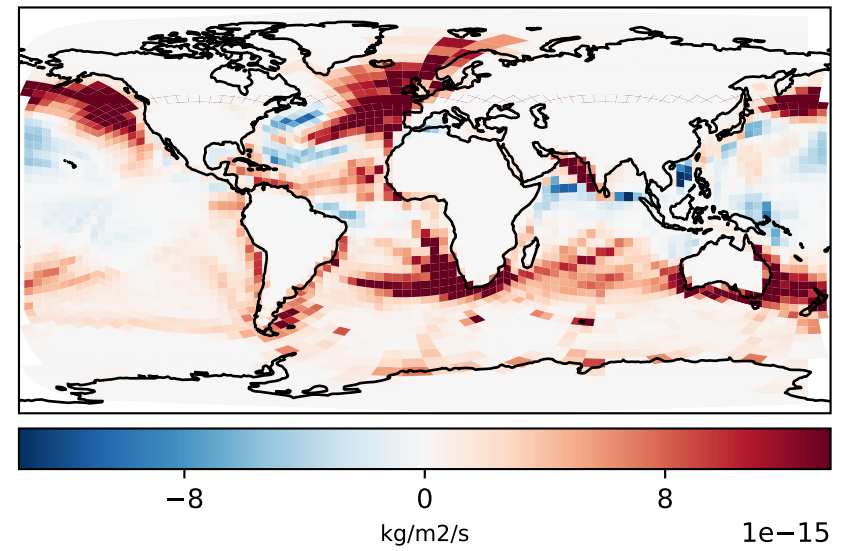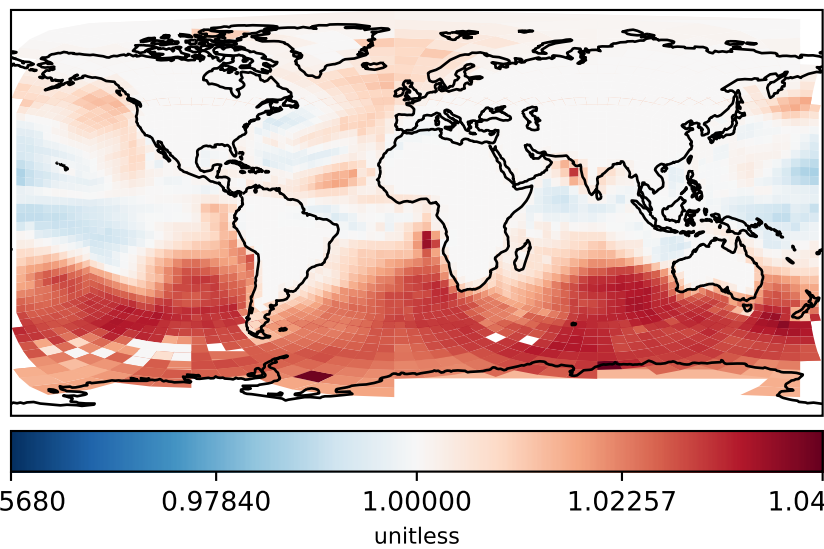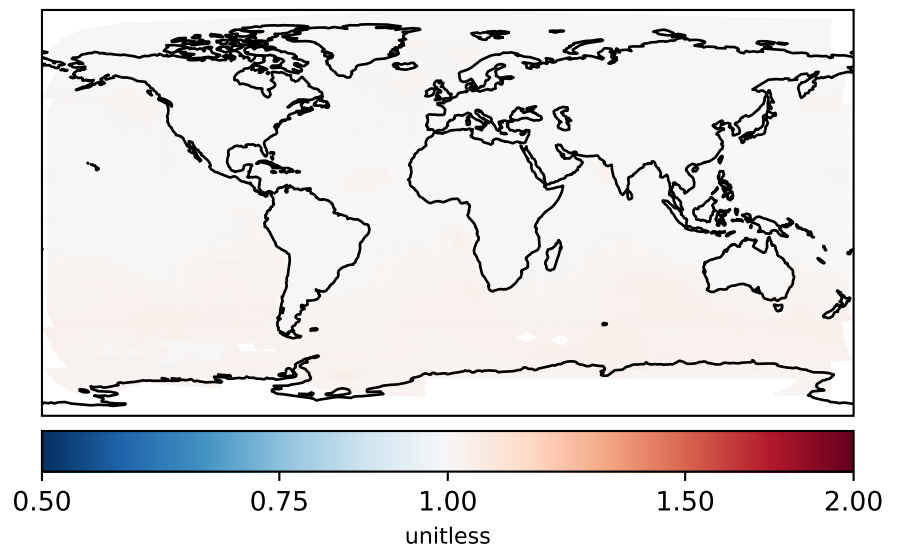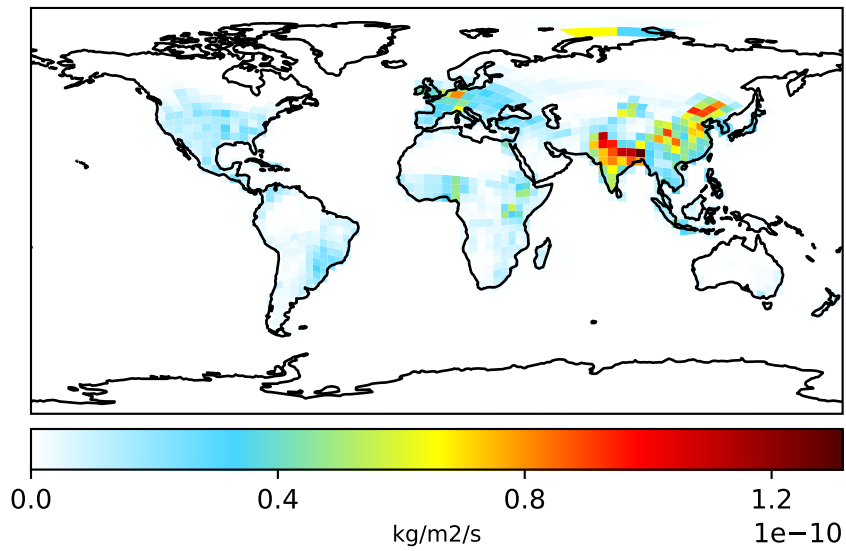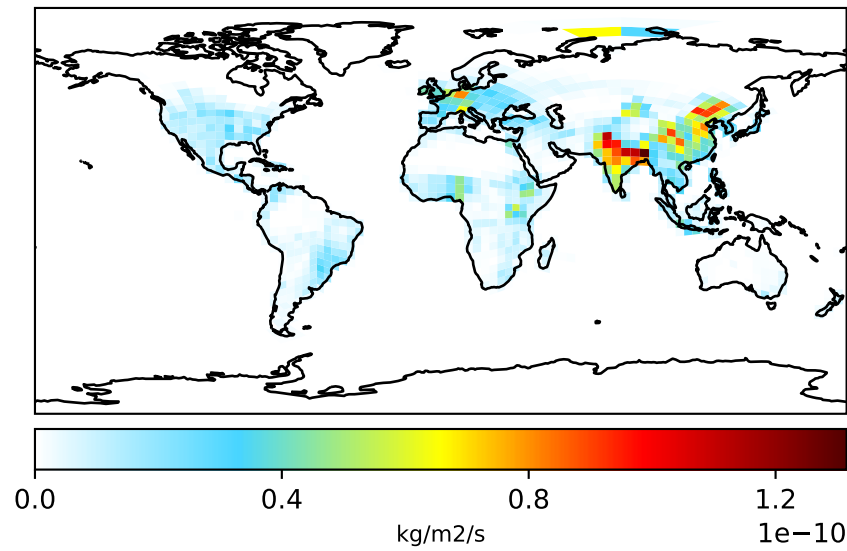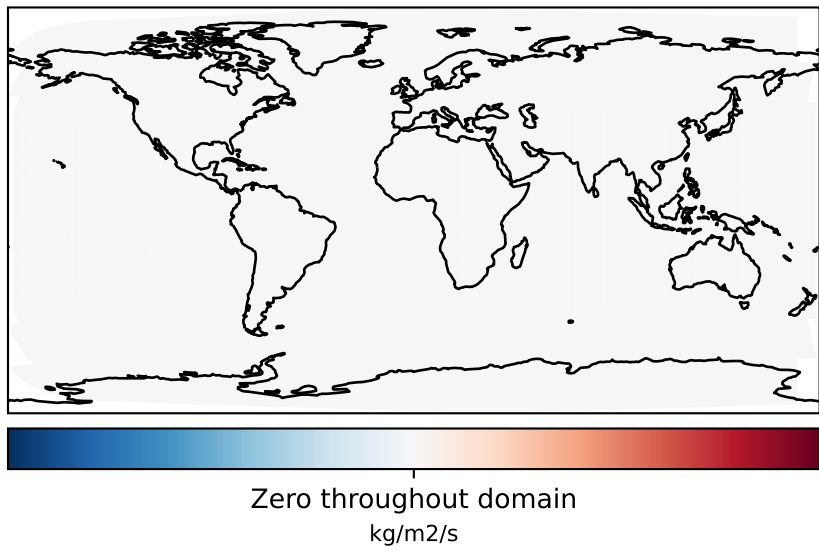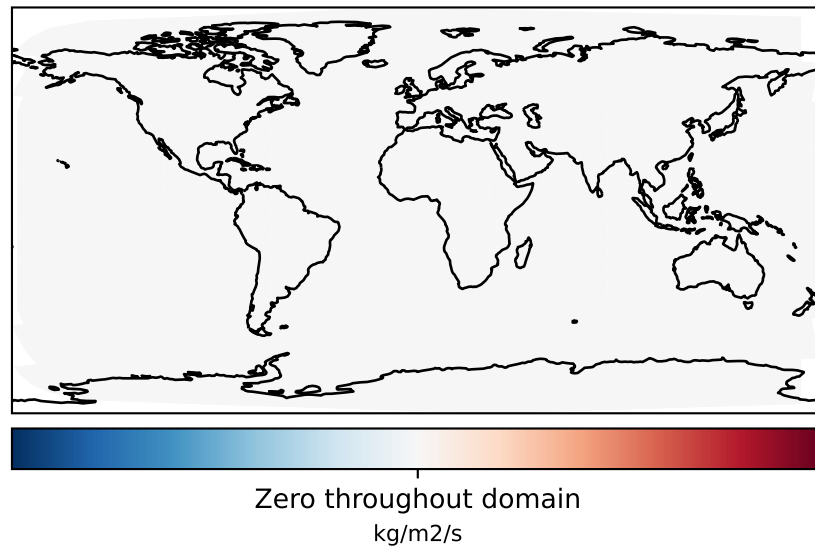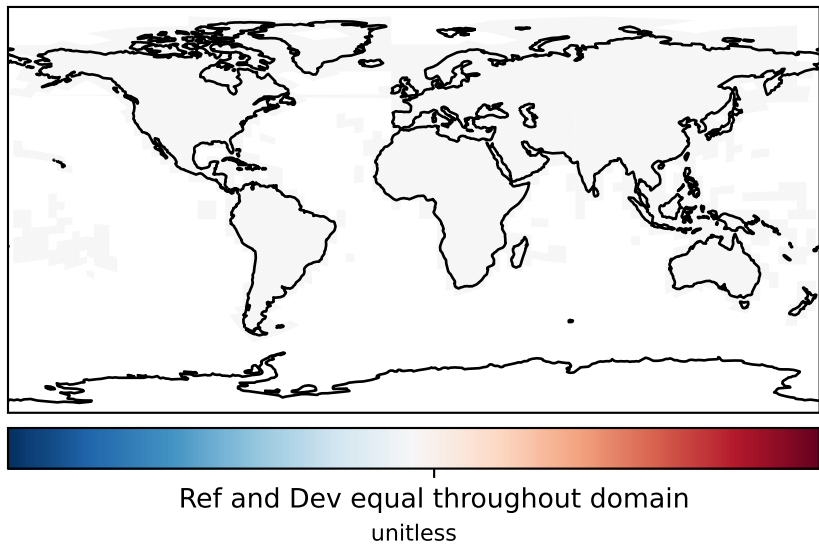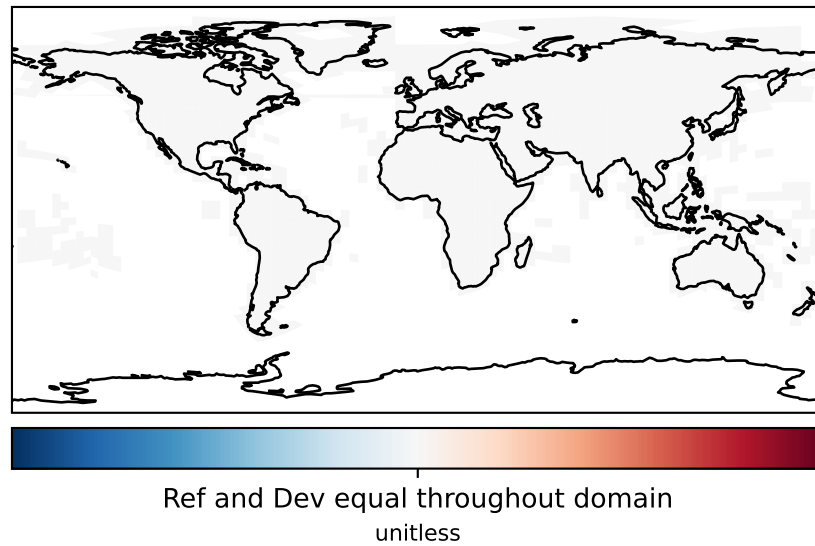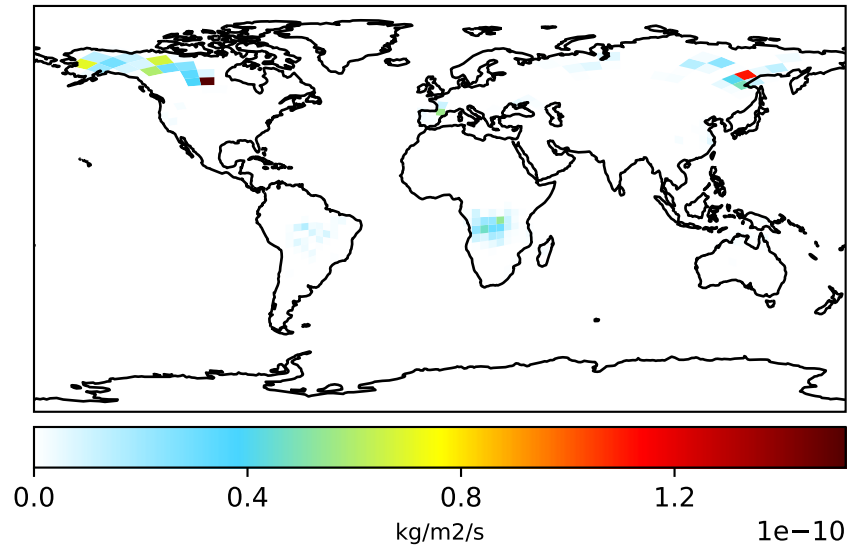# EmisNO2_Total

EmisNH3_Anthro

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

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
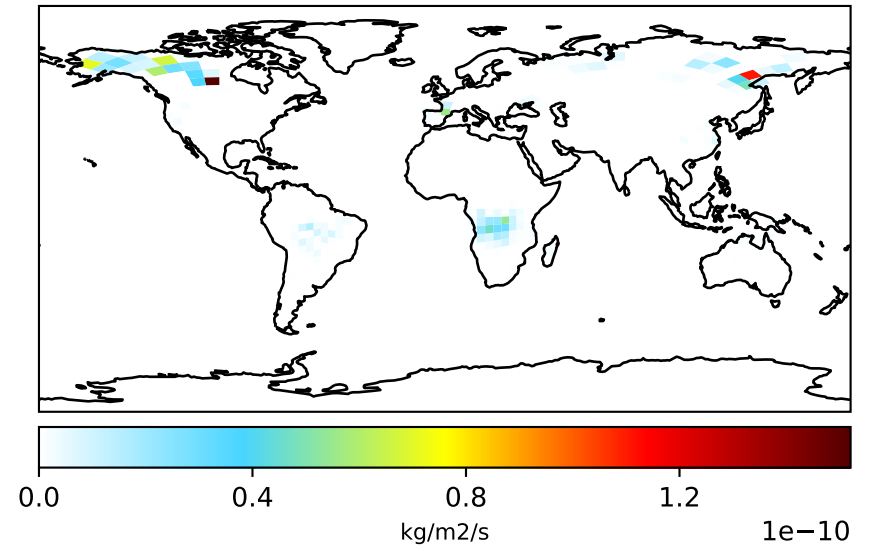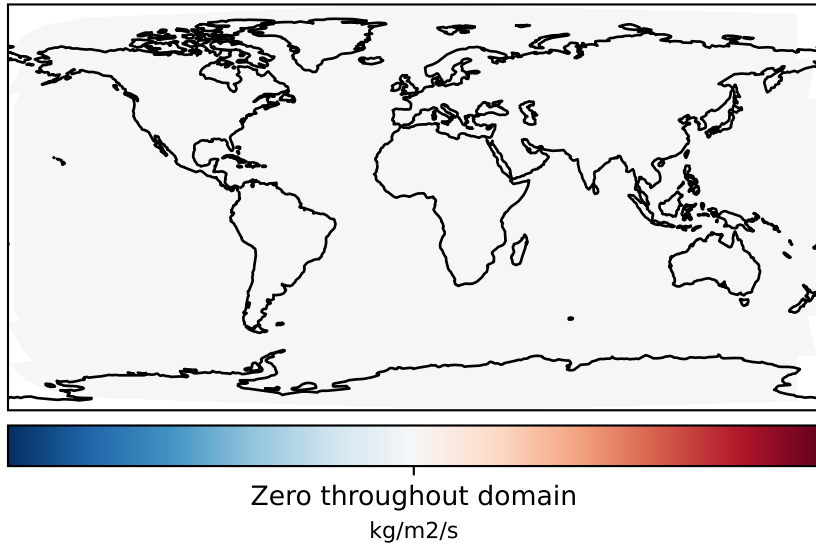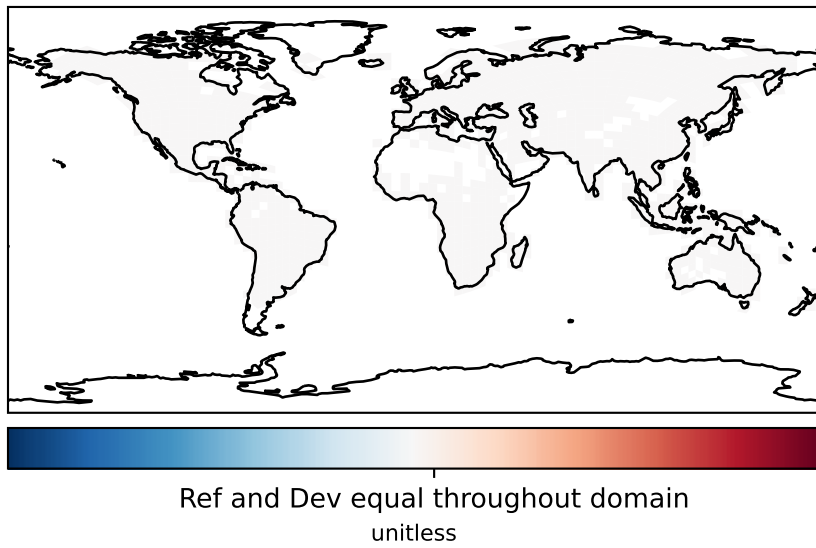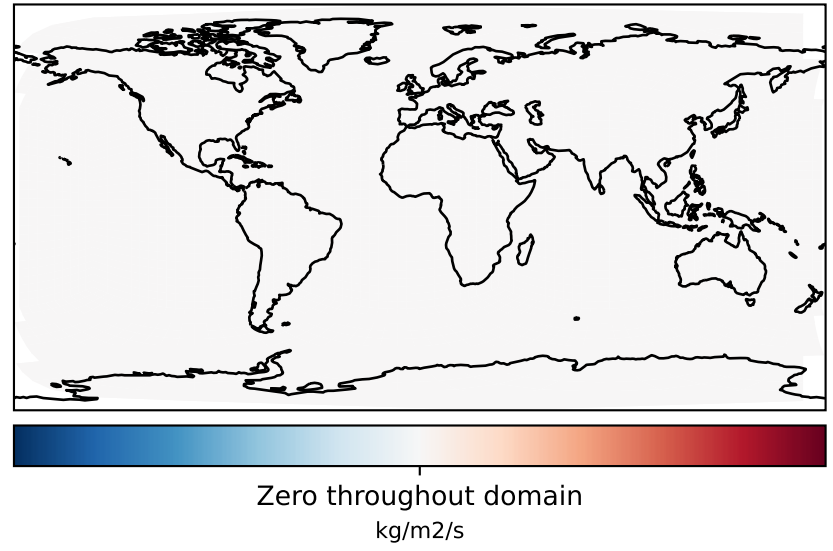unitless

Ref and Dev equal throughout domain
unitless

EmisNH3_BioBurn

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

1e−10

Difference
Dev - Ref, Dynamic Range

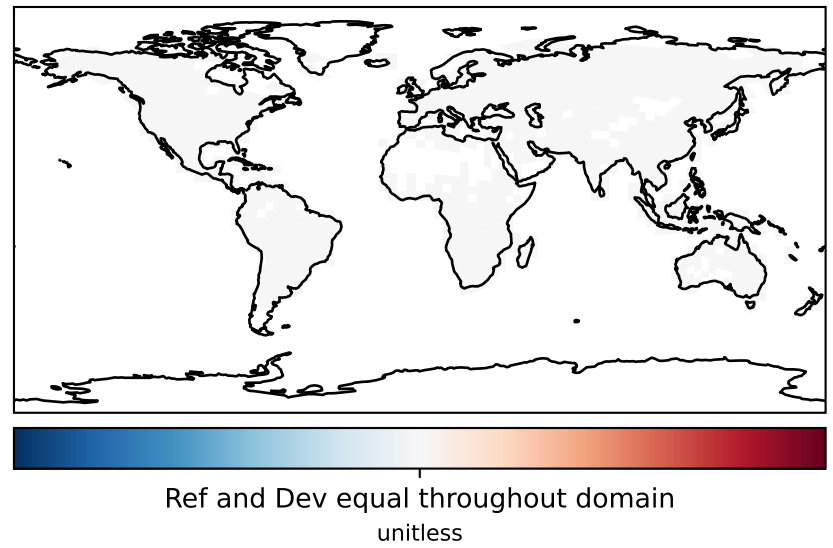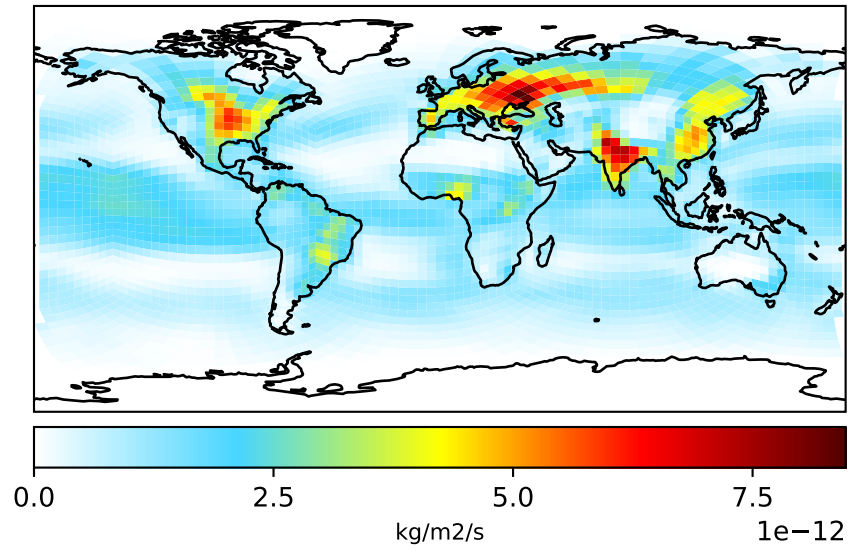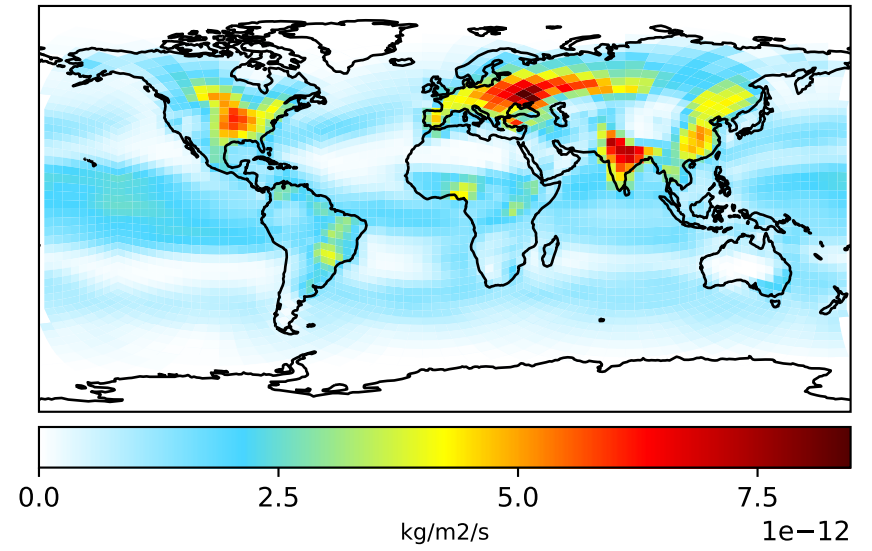Difference
Dev - Ref, Restricted Range [5%,95%]

Zero throughout domain
kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
unitless

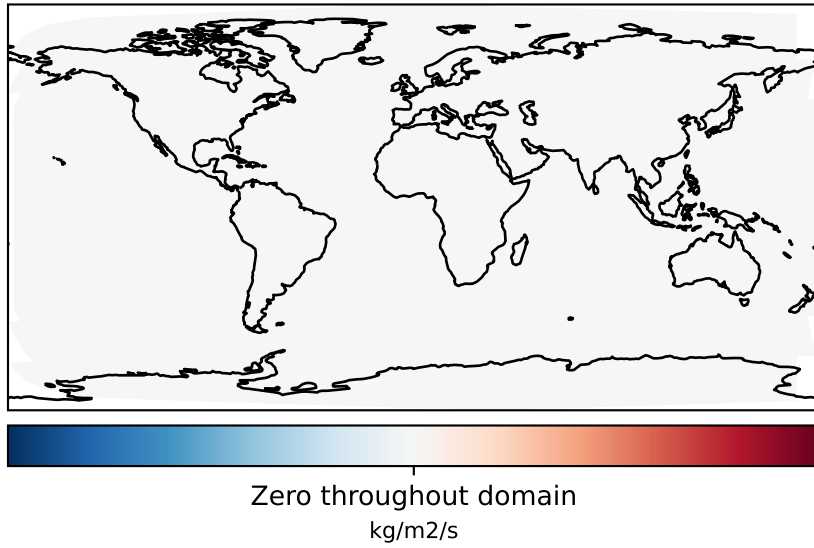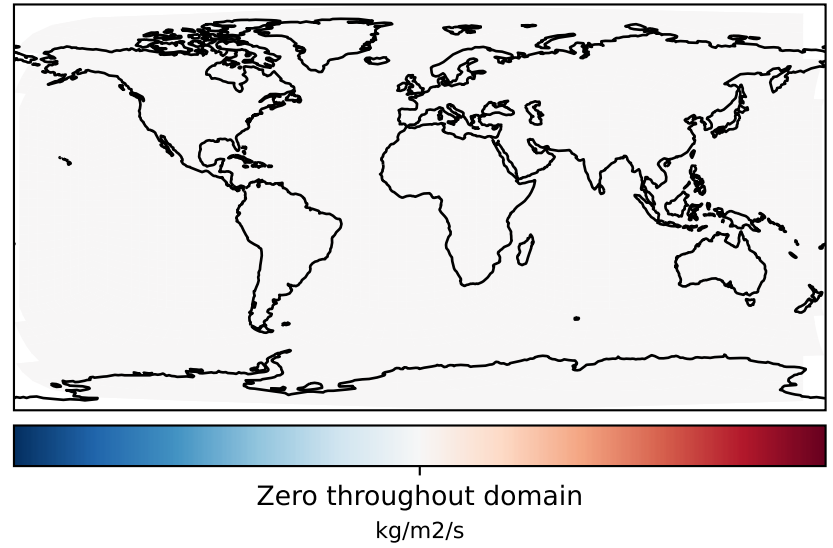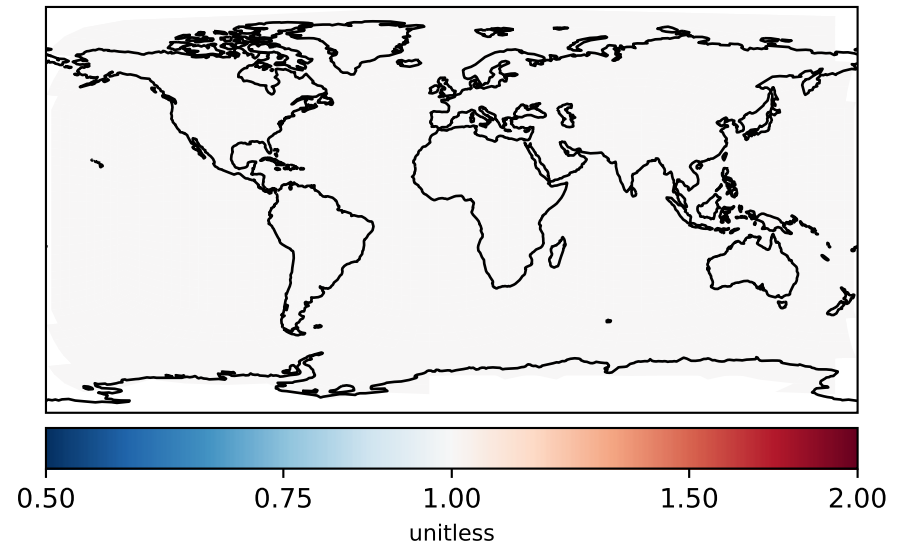# EmisNH3_Natural
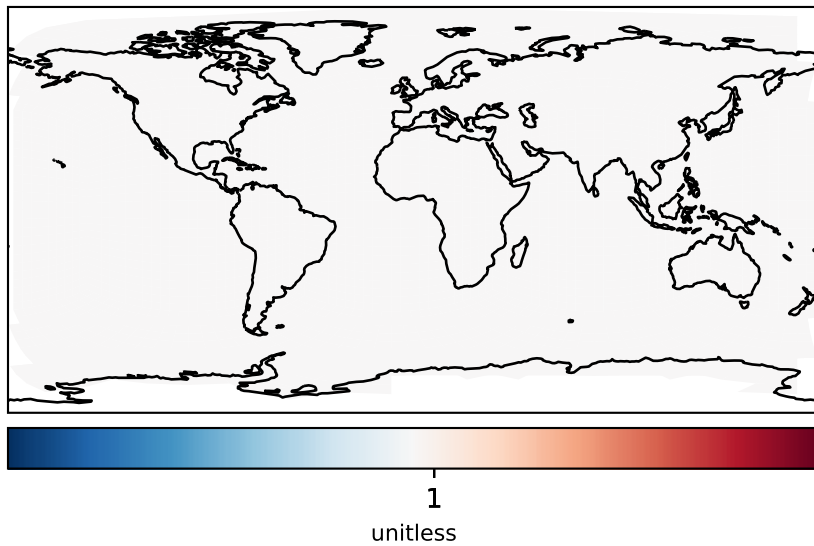
EmisNH3_Seabirds

Processed GEOS-FP input, 3-hr winds (Ref)
c24

Raw GEOS-FP input, 3-hr winds (Dev)
c24

kg/m2/s

Difference
Dev - Ref, Dynamic Range

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

Zero throughout domain
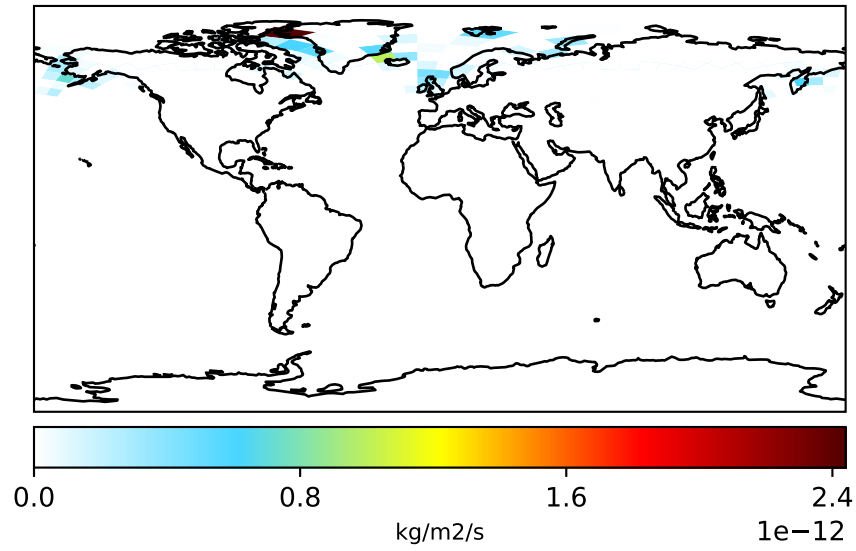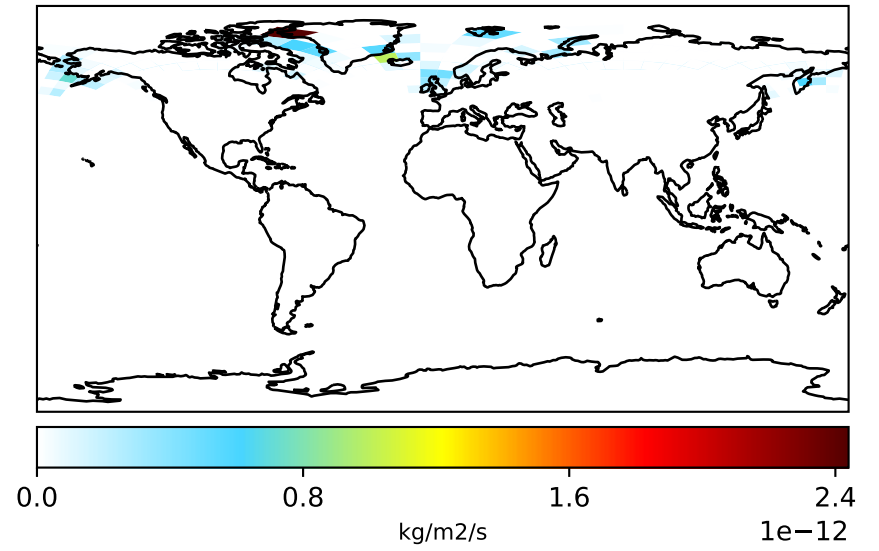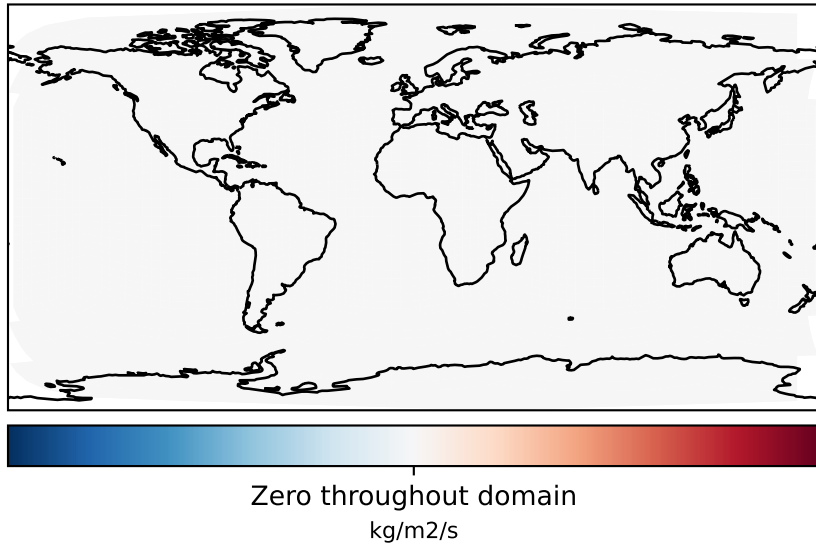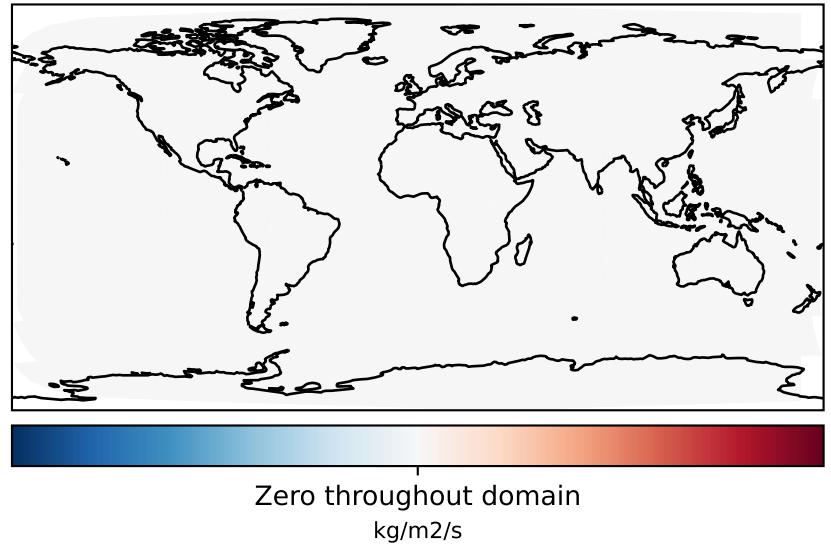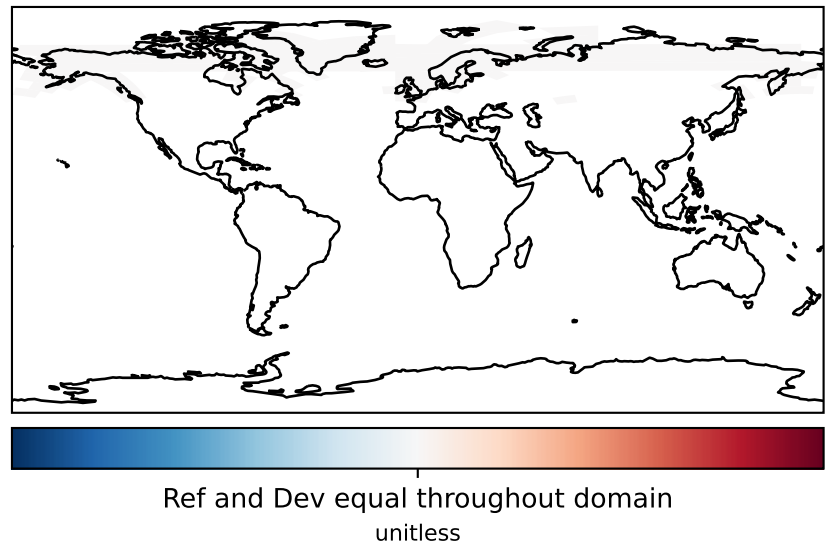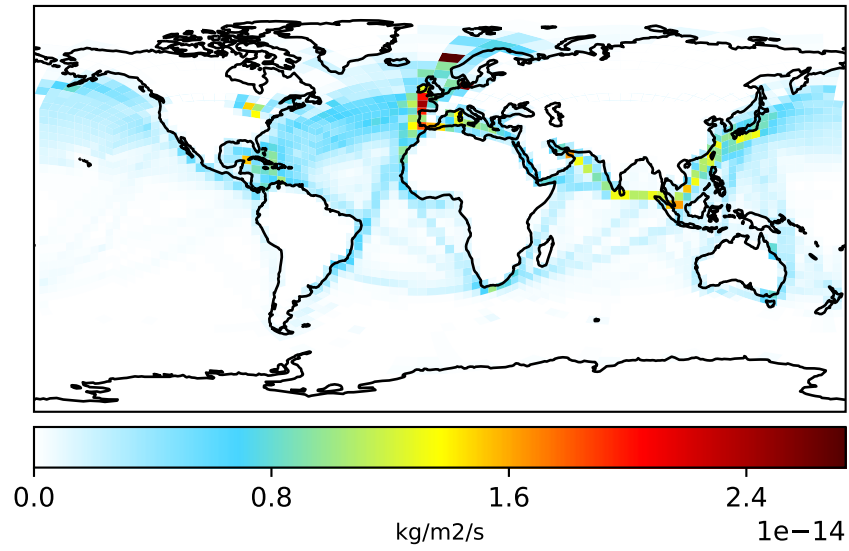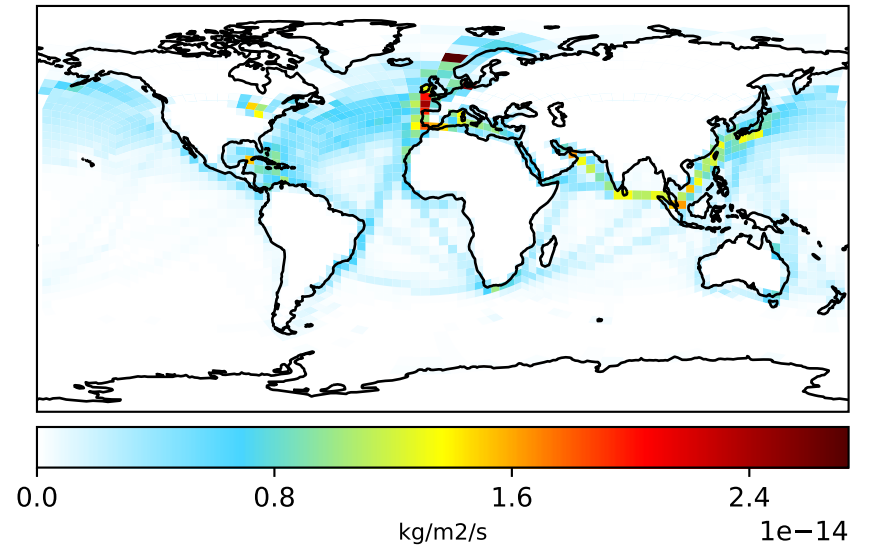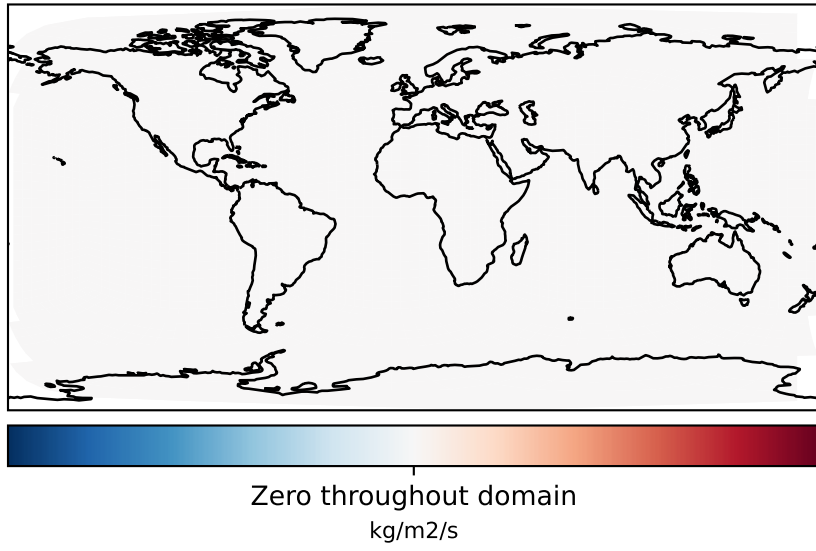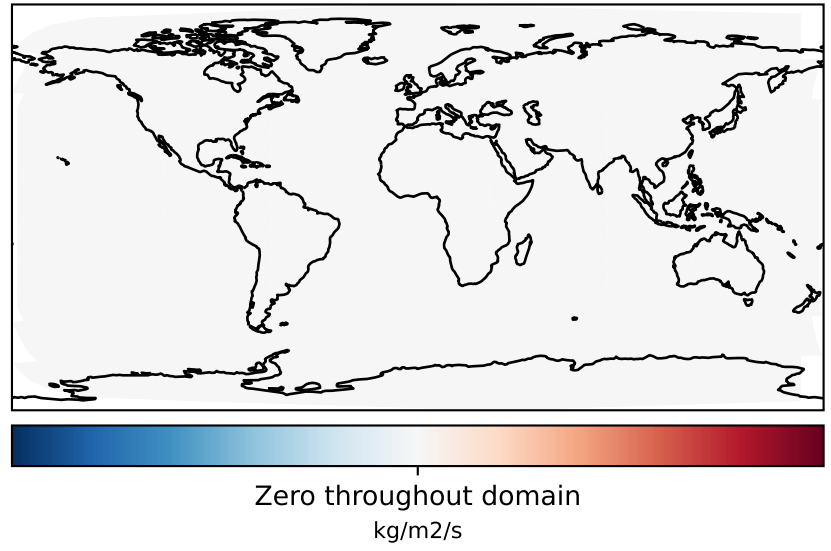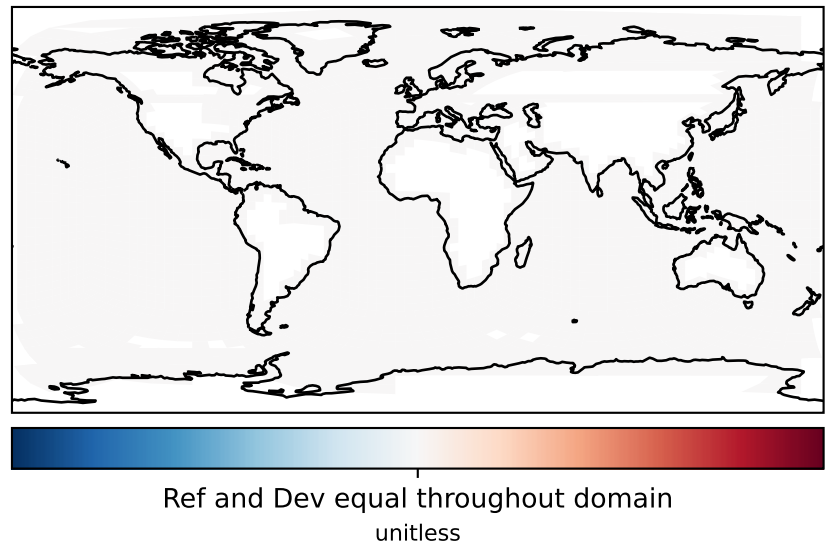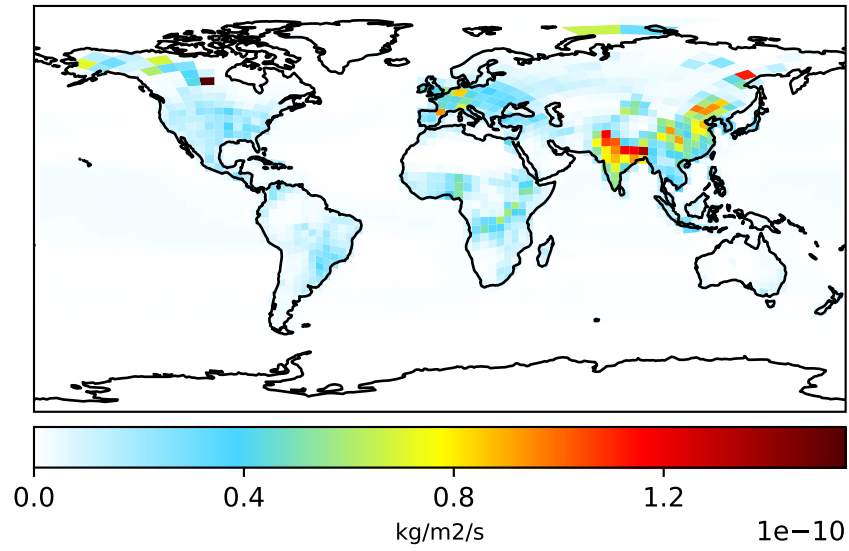kg/m2/s

Ratio
Dev/Ref, Dynamic Range

Ratio
Dev/Ref, Fixed Range

Ref and Dev equal throughout domain
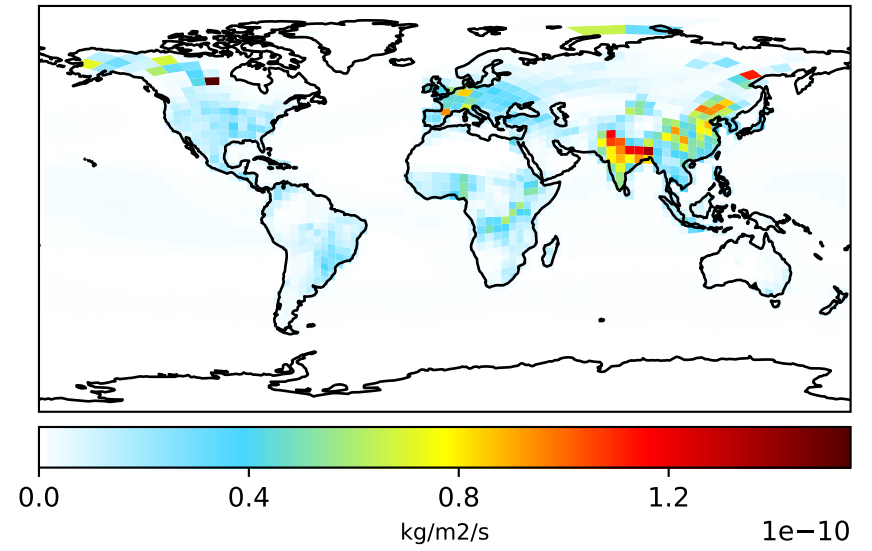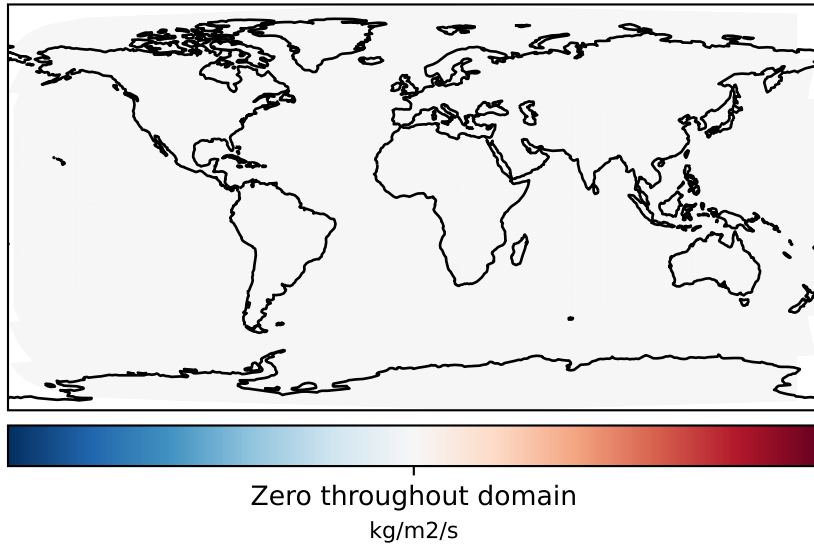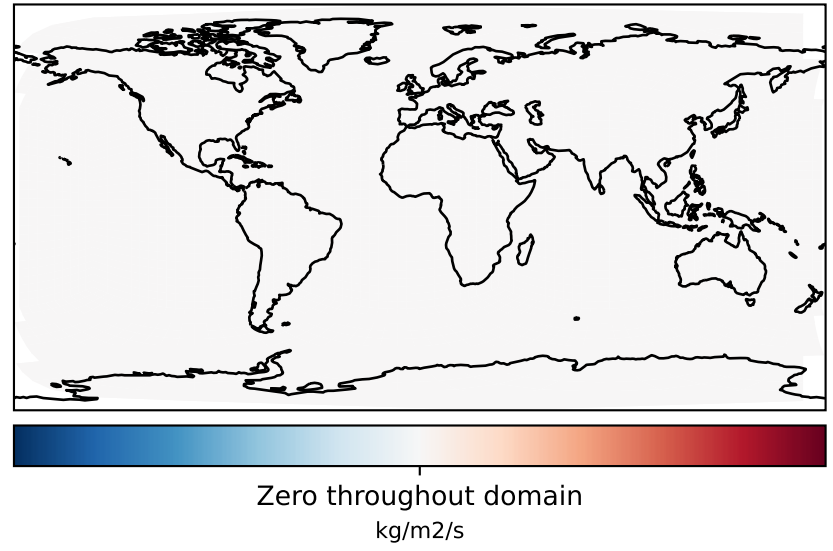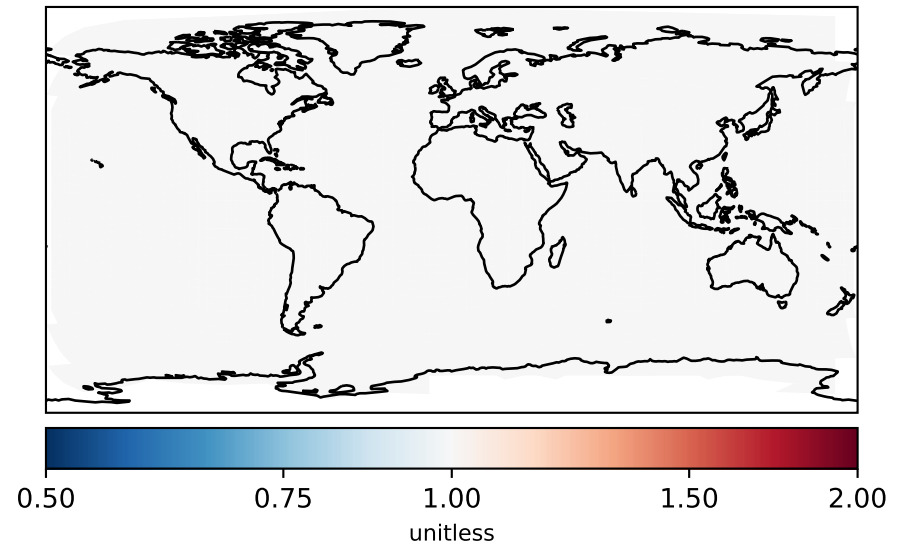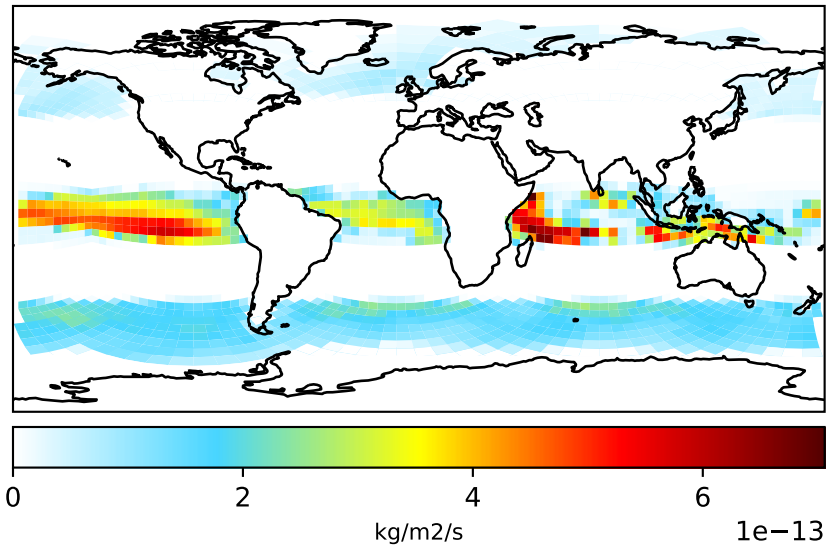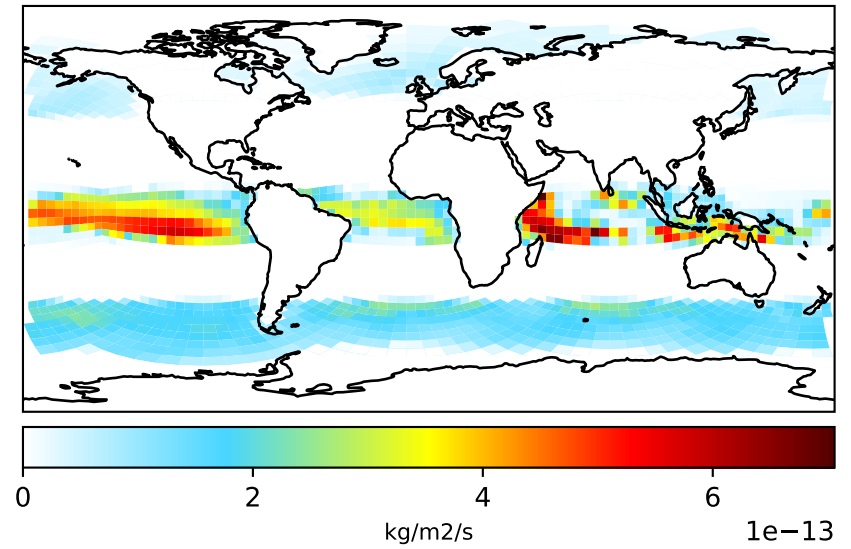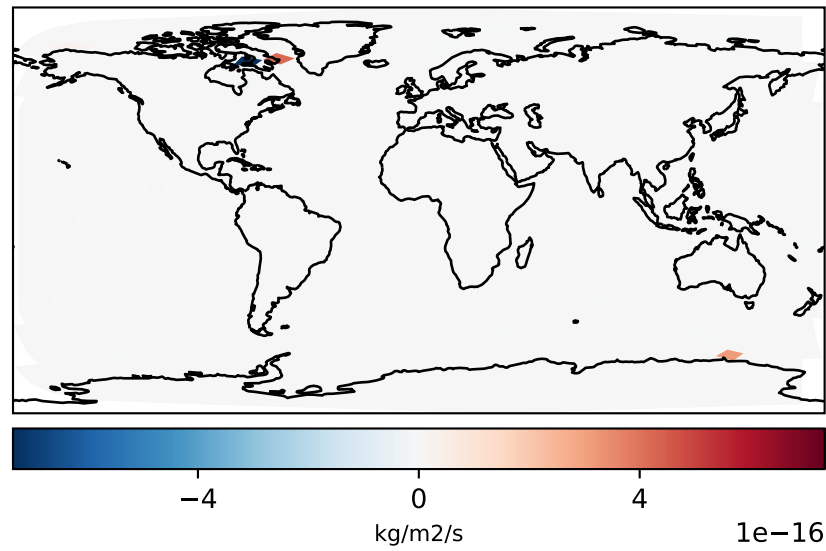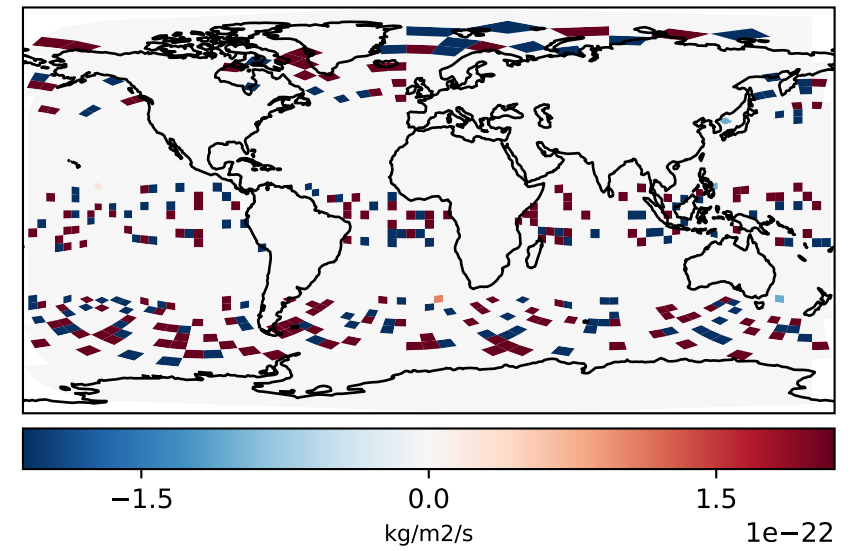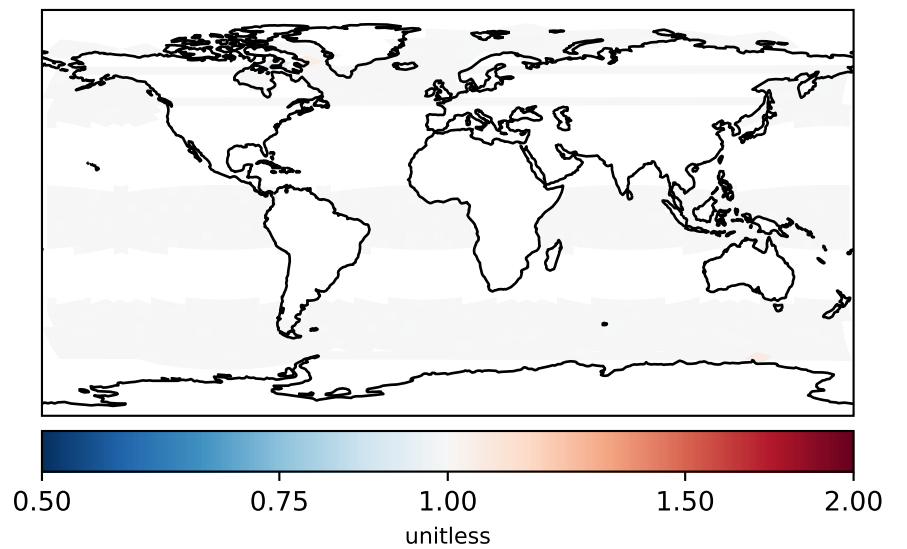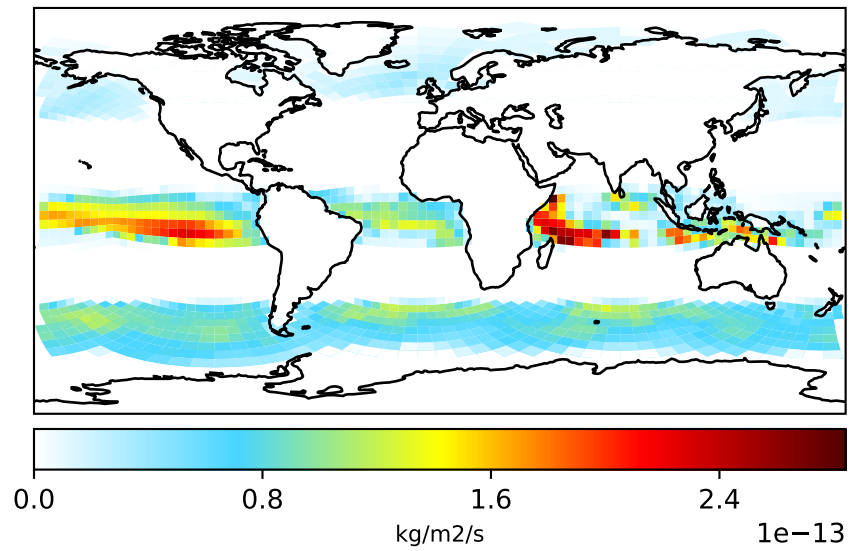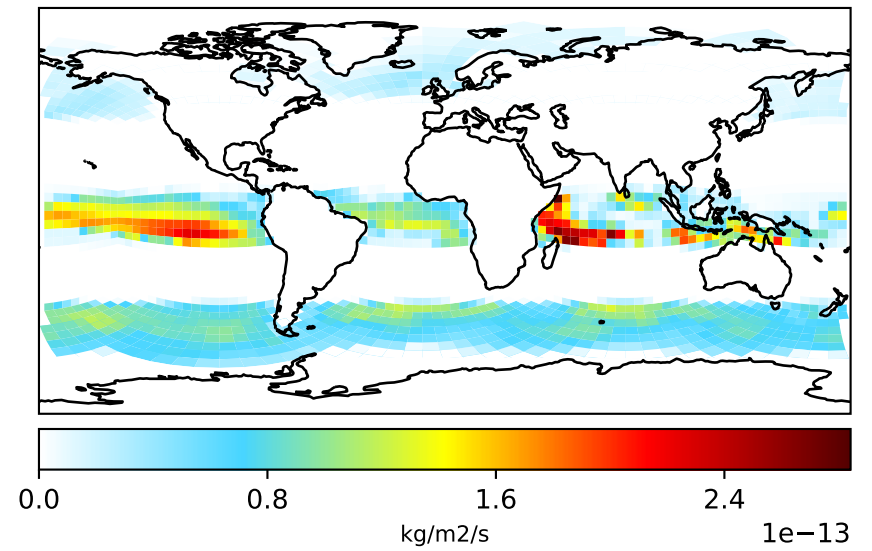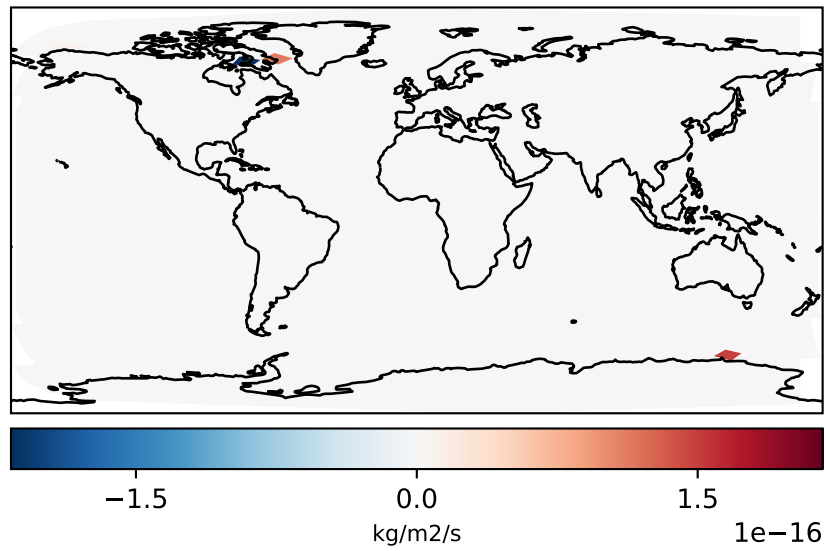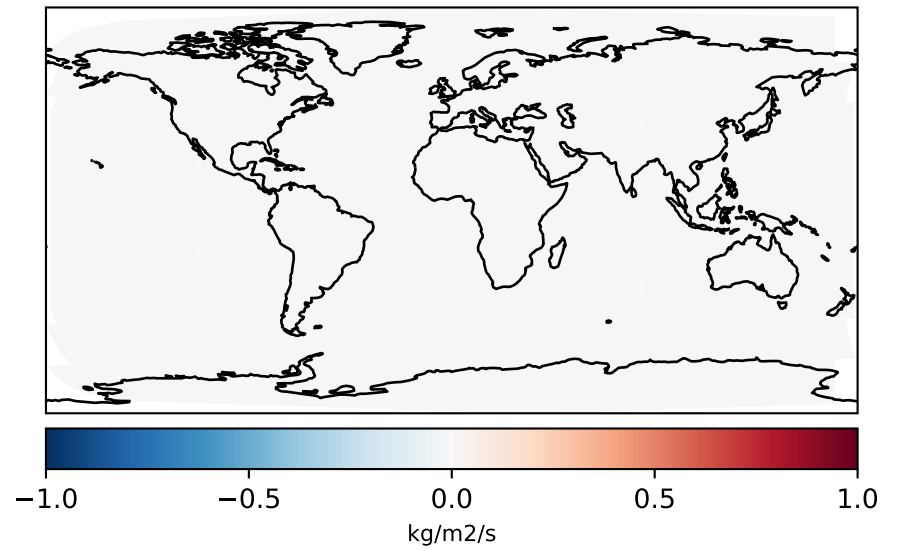unitless
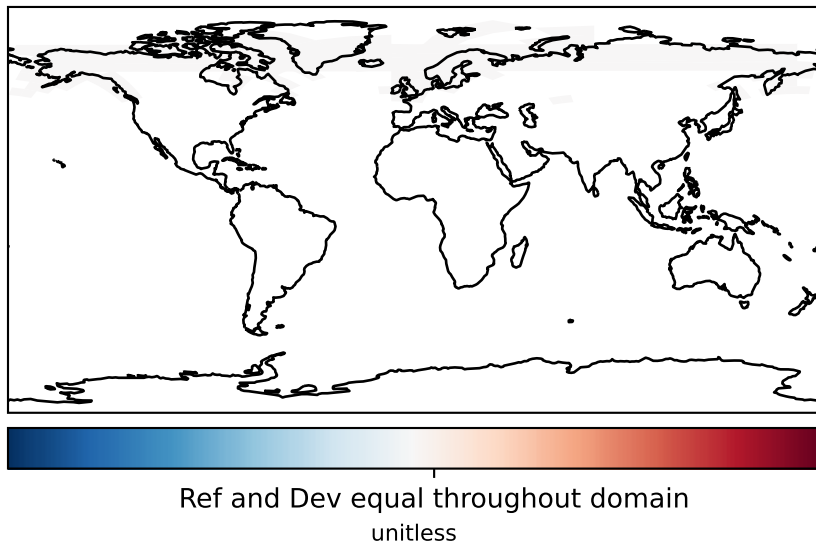
EmisNH3_Ship
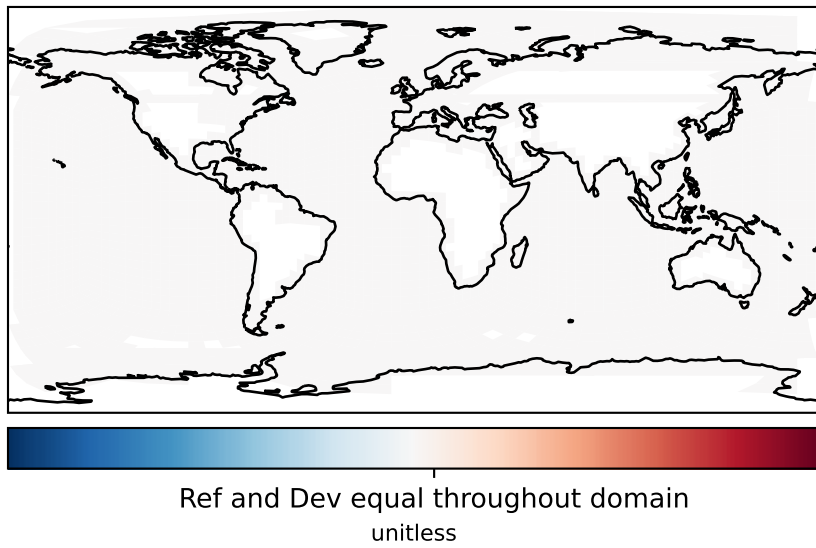
EmisNH3_Total

| Processed GEOS-FP input, 3-hr winds (Ref) c24 | Raw GEOS-FP input, 3-hr winds (Dev) c24 |

kg/m2/s
0.0   0.4   0.8   1.2   1e−10

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

1
unitless

0.50   0.75   1.00   1.50   2.00
unitless

EmisMENO3_Ocean

EmisETNO3_Ocean