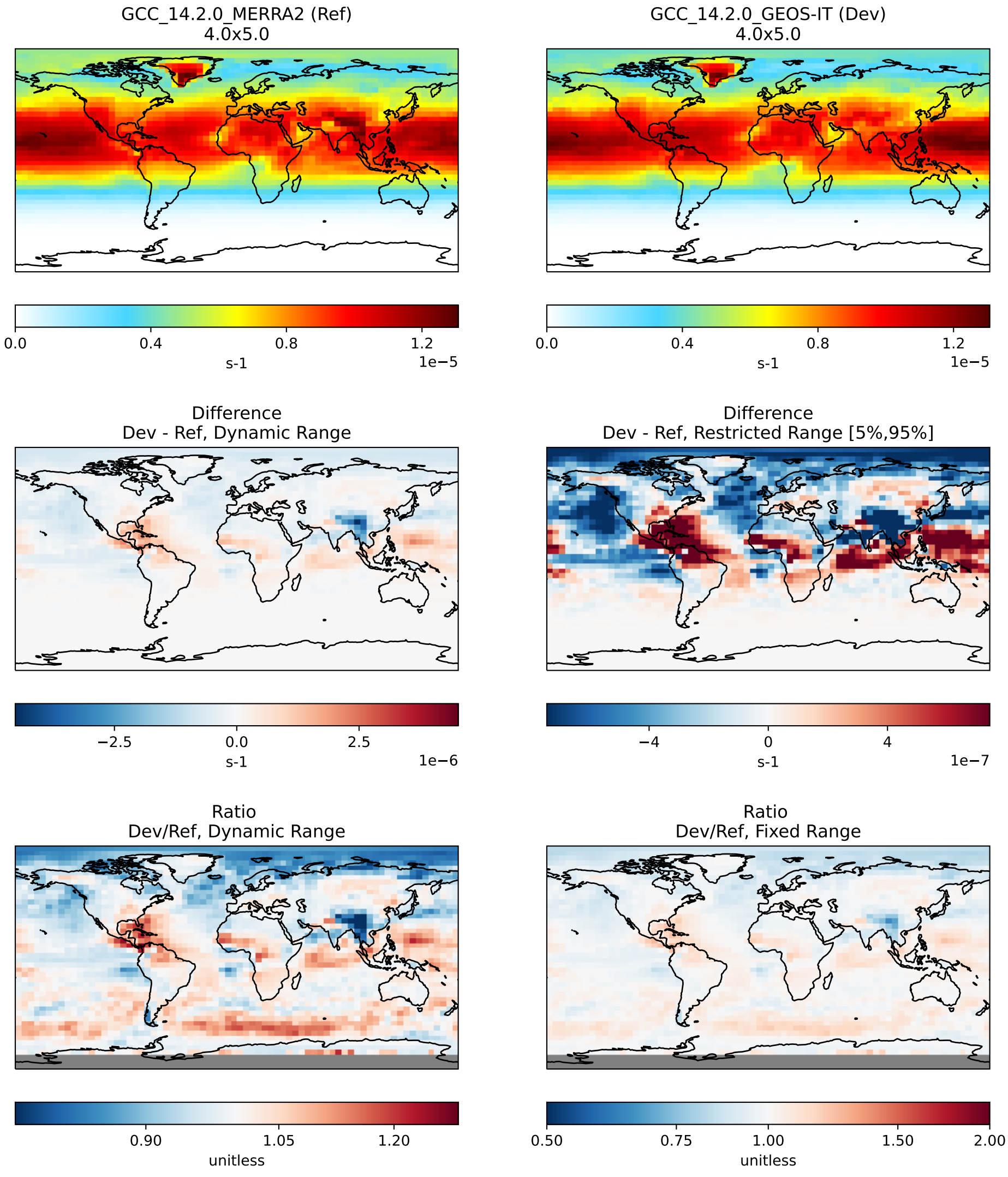
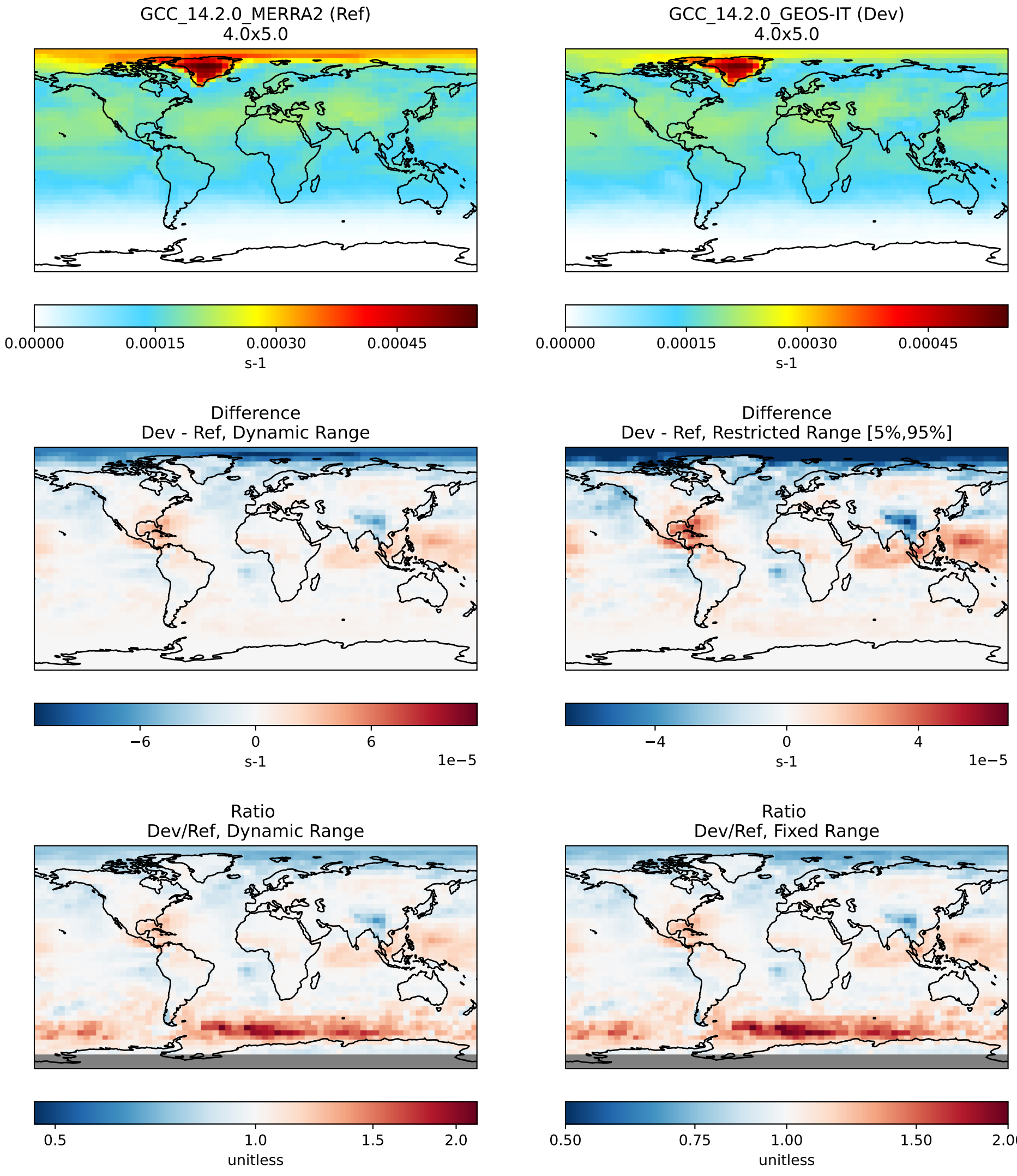
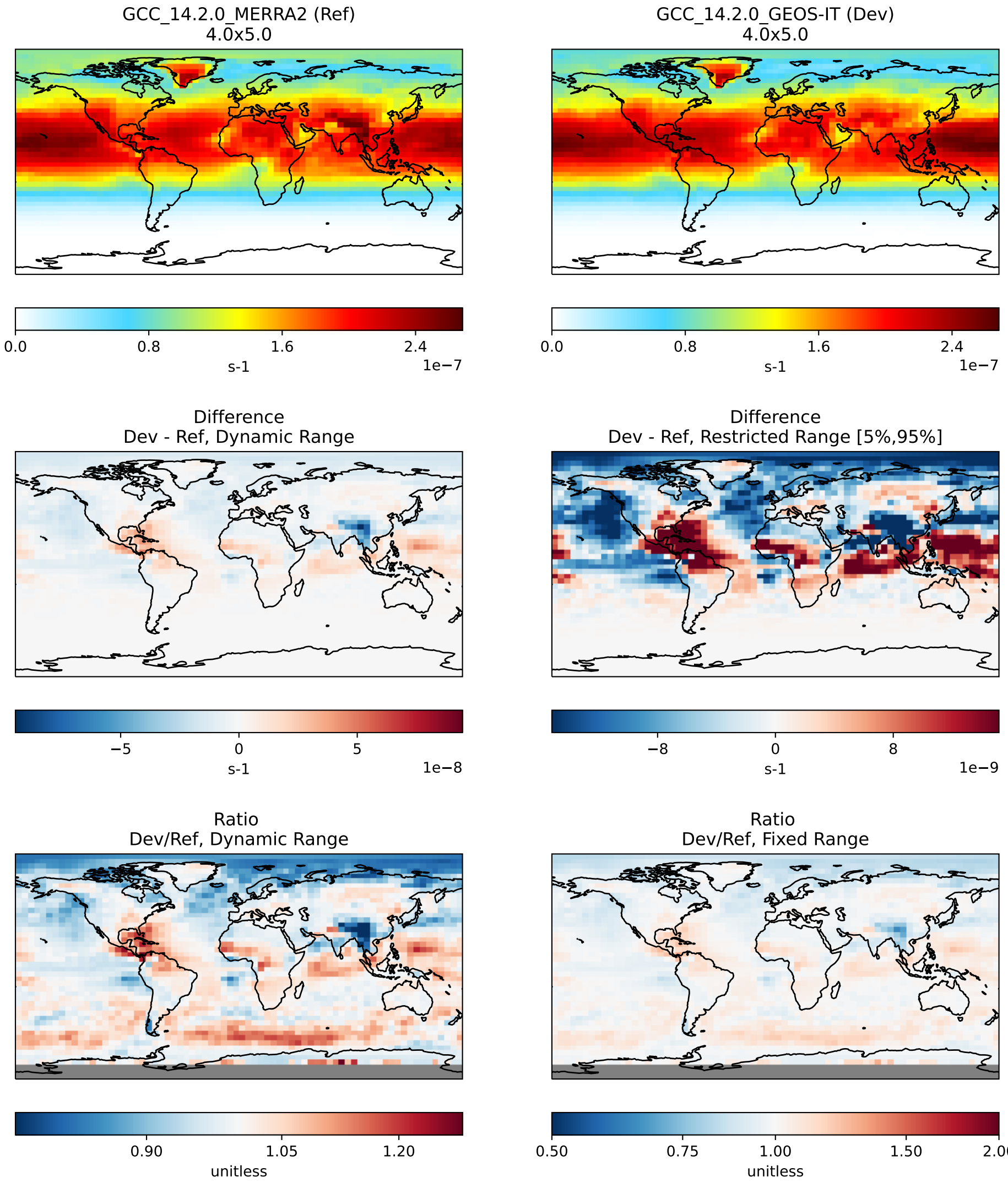
JvalO3O1D


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−2.5
0.0
2.5
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−4
0
4
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

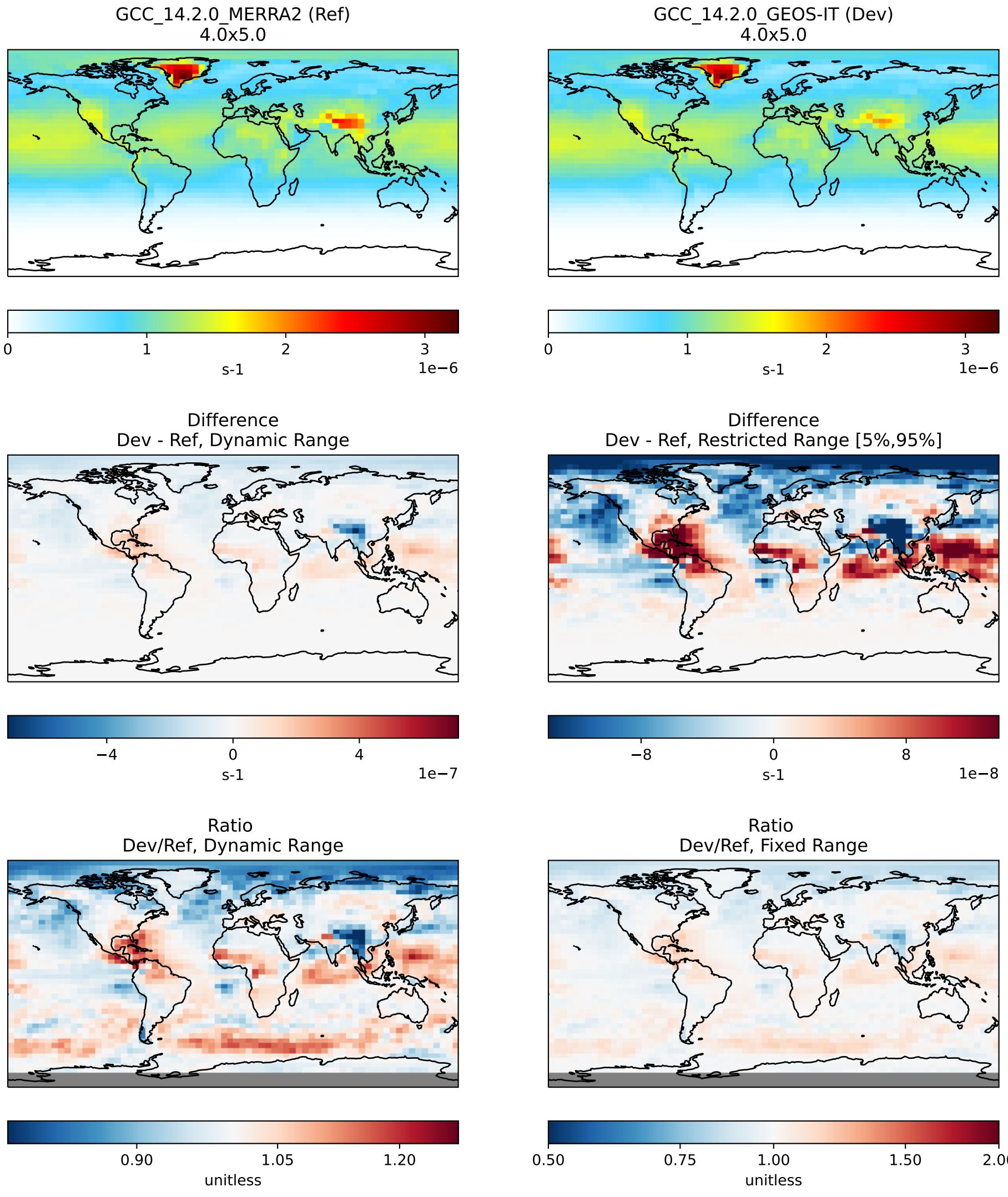
JvalO3O3P


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00000
0.00015
0.00030
0.00045
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00000
0.00015
0.00030
0.00045
s-1
Difference
Dev - Ref, Dynamic Range
−6
0
6
s-1
1e−5
Difference
Dev - Ref, Restricted Range [5%,95%]
−4
0
4
s-1
1e−5
Ratio
Dev/Ref, Dynamic Range
0.5
1.0
1.5
2.0
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

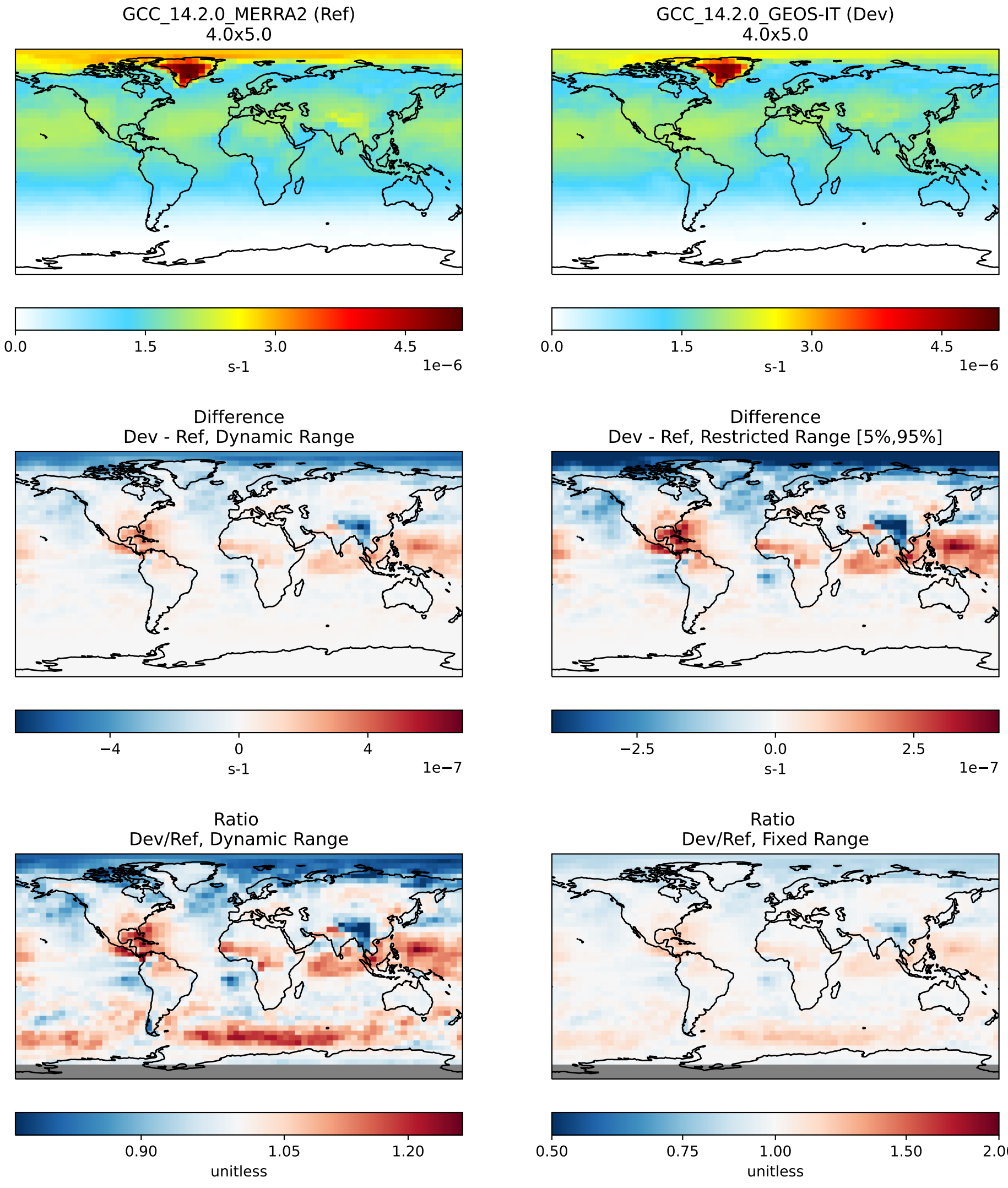
Jval_ACET


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.8
1.6
2.4
s-1
1e−7
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.8
1.6
2.4
s-1
1e−7
Difference
Dev - Ref, Dynamic Range
−5
0
5
s-1
1e−8
Difference
Dev - Ref, Restricted Range [5%,95%]
−8
0
8
s-1
1e−9
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

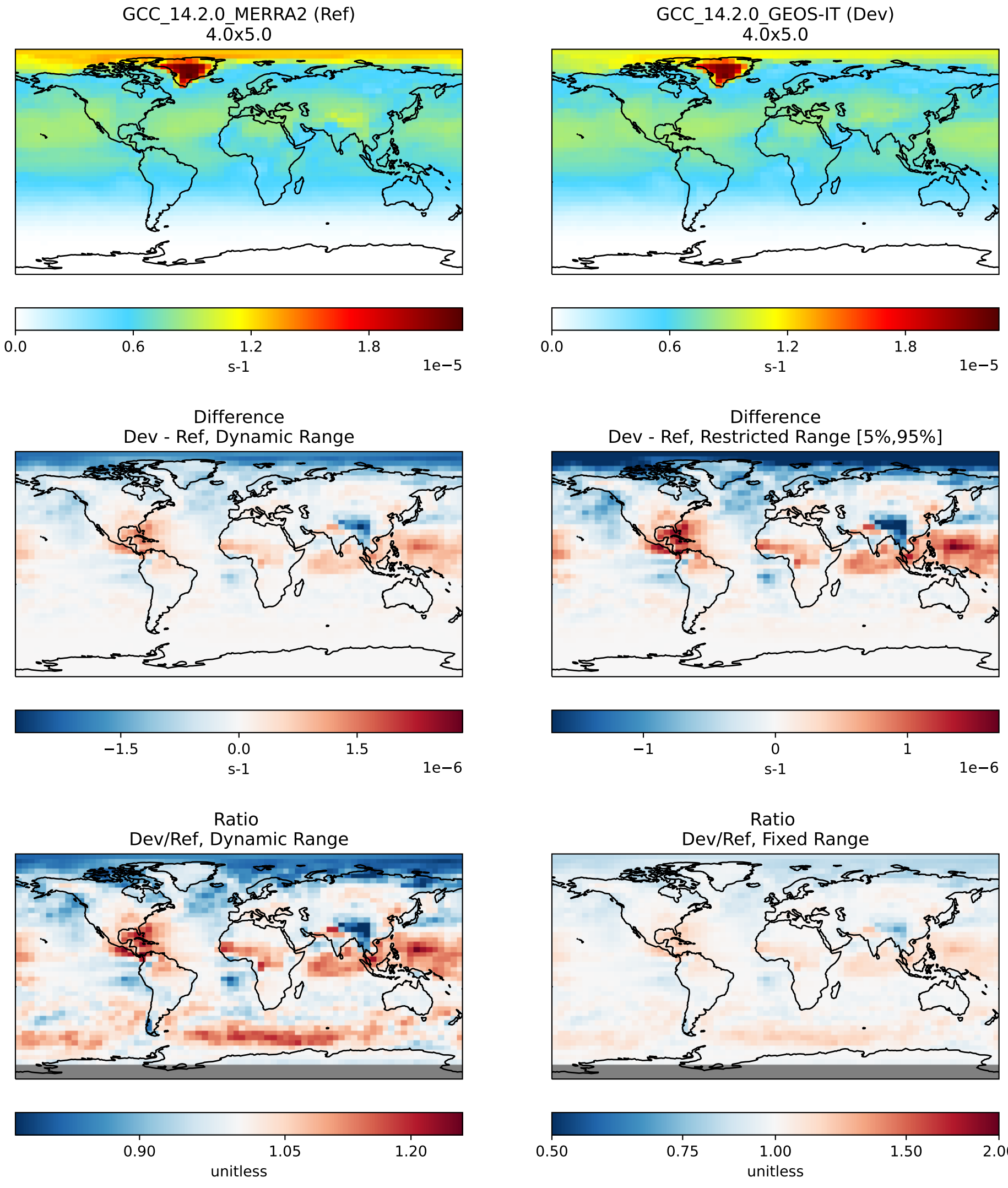
Jval_ALD2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
1
2
3
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
1
2
3
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−8
0
8
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

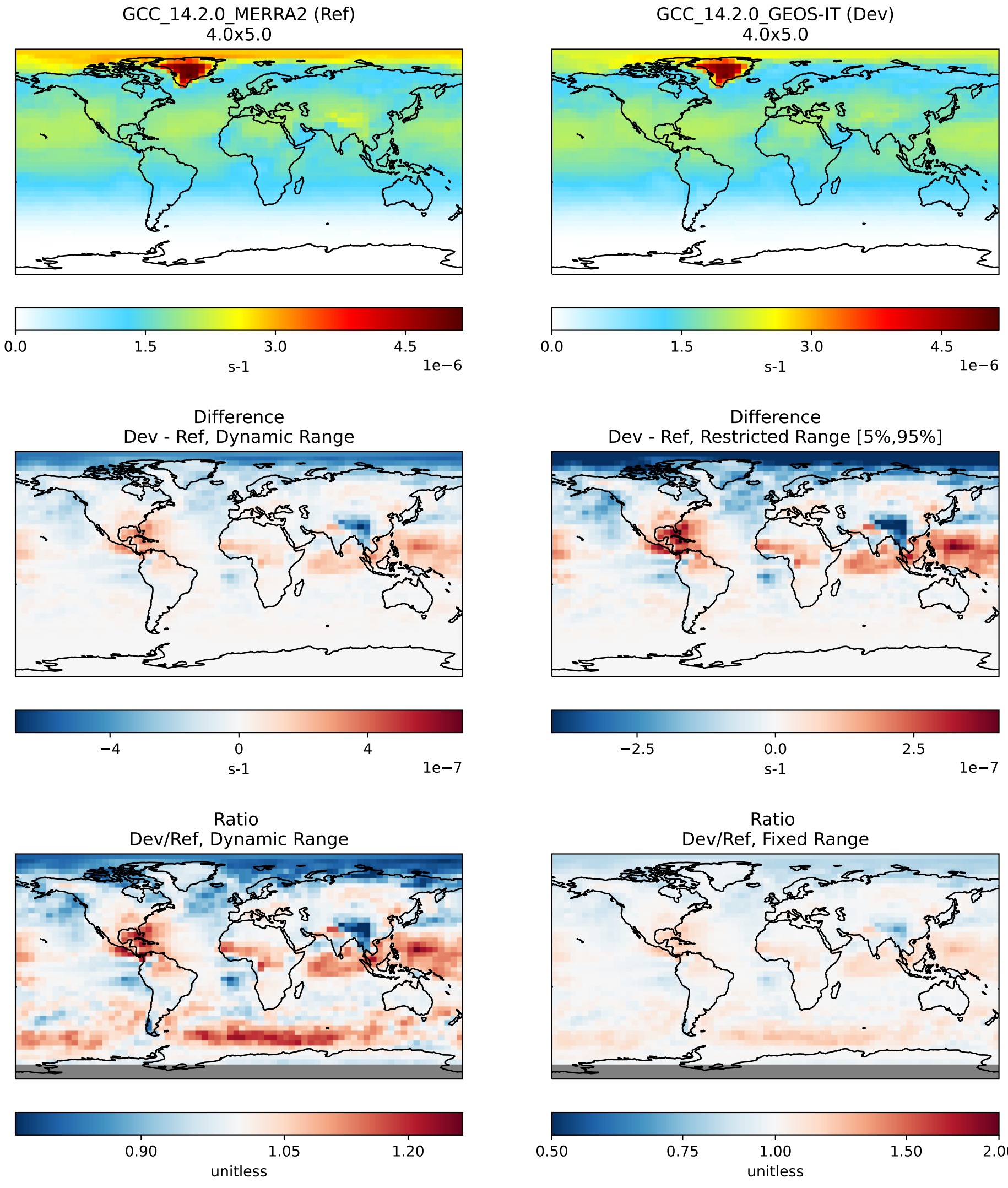
Jval_ATOOH


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

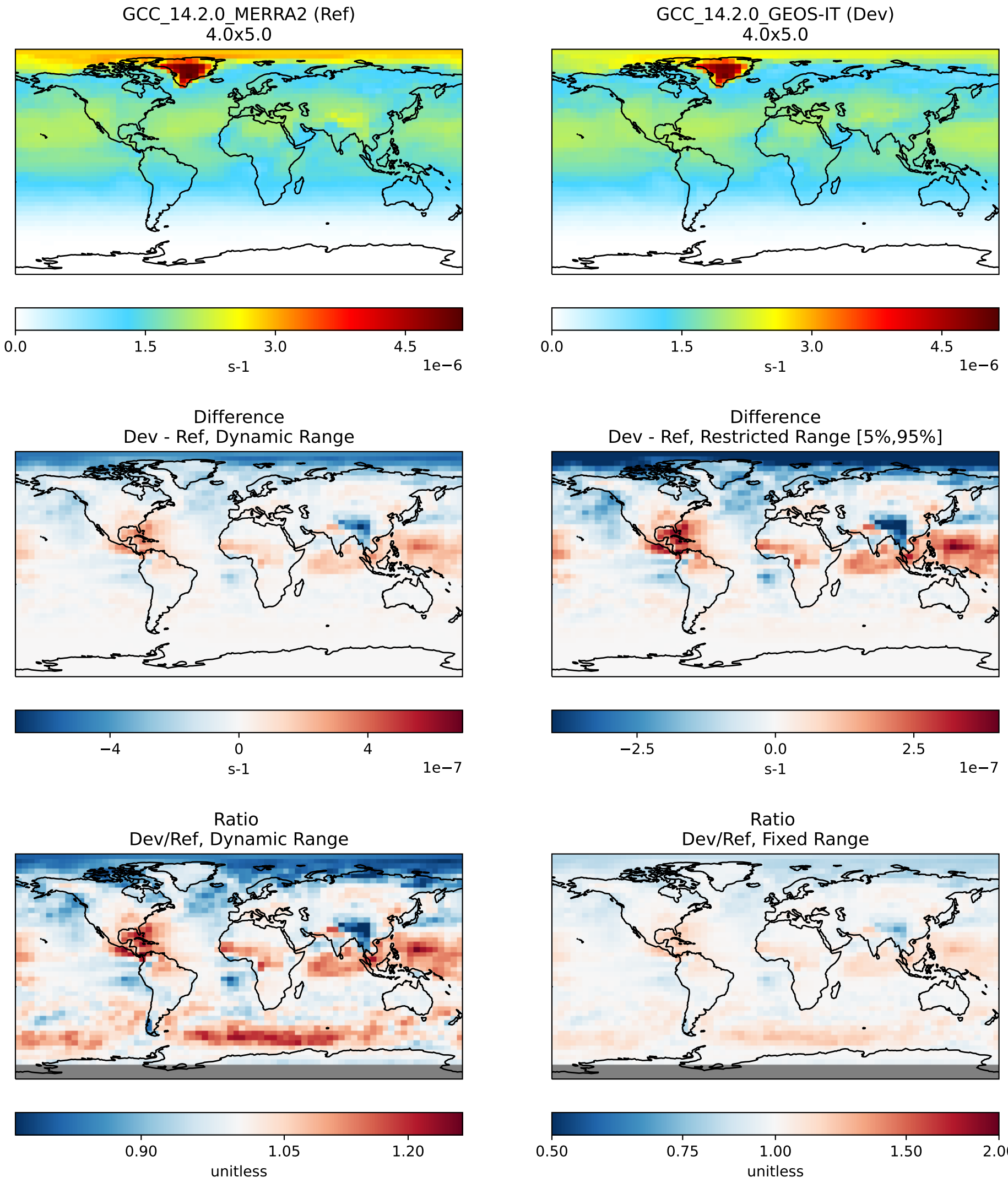
Jval_BALD


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.6
1.2
1.8
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.6
1.2
1.8
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−1.5
0.0
1.5
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−1
0
1
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

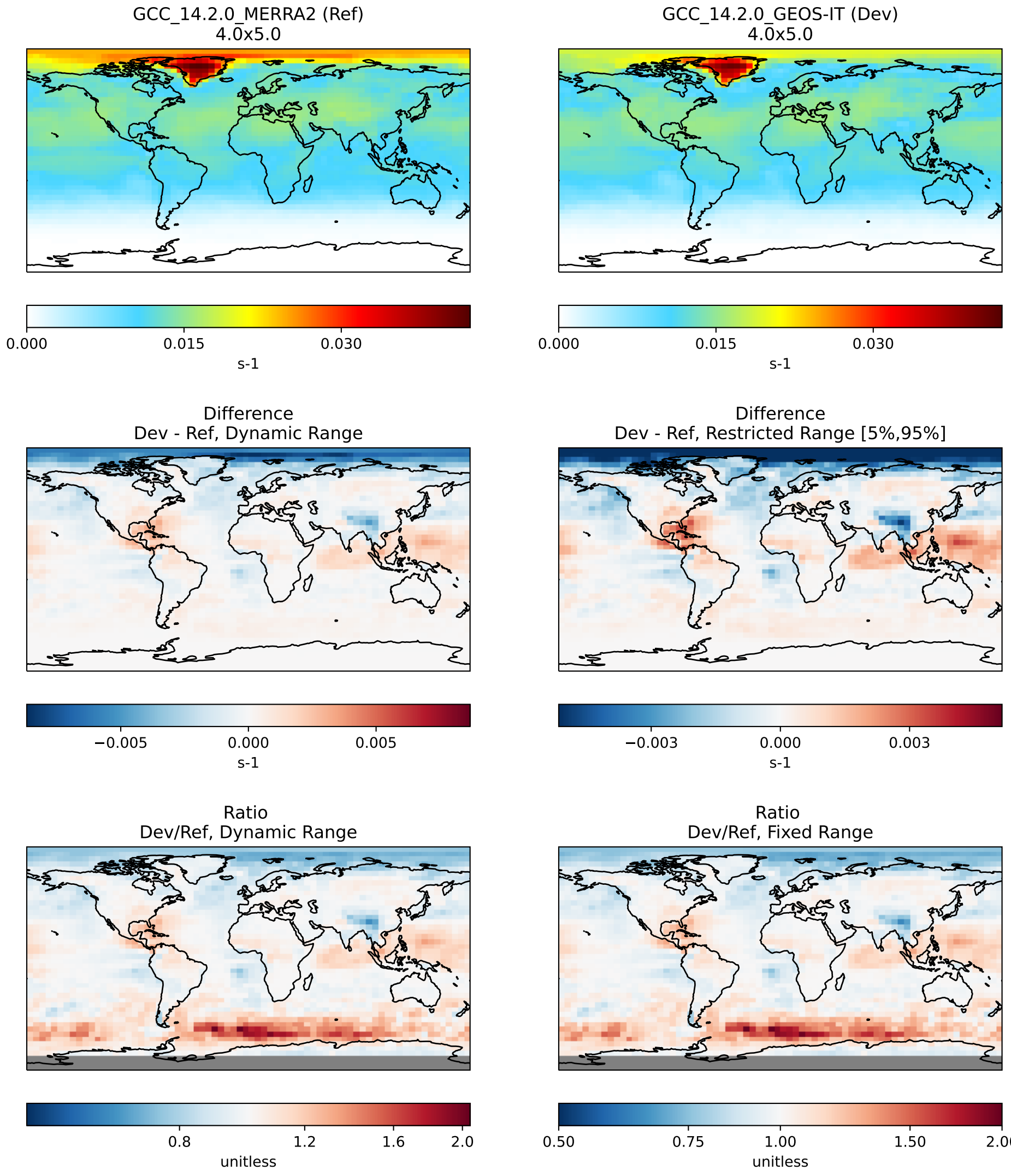
Jval_BENZP


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

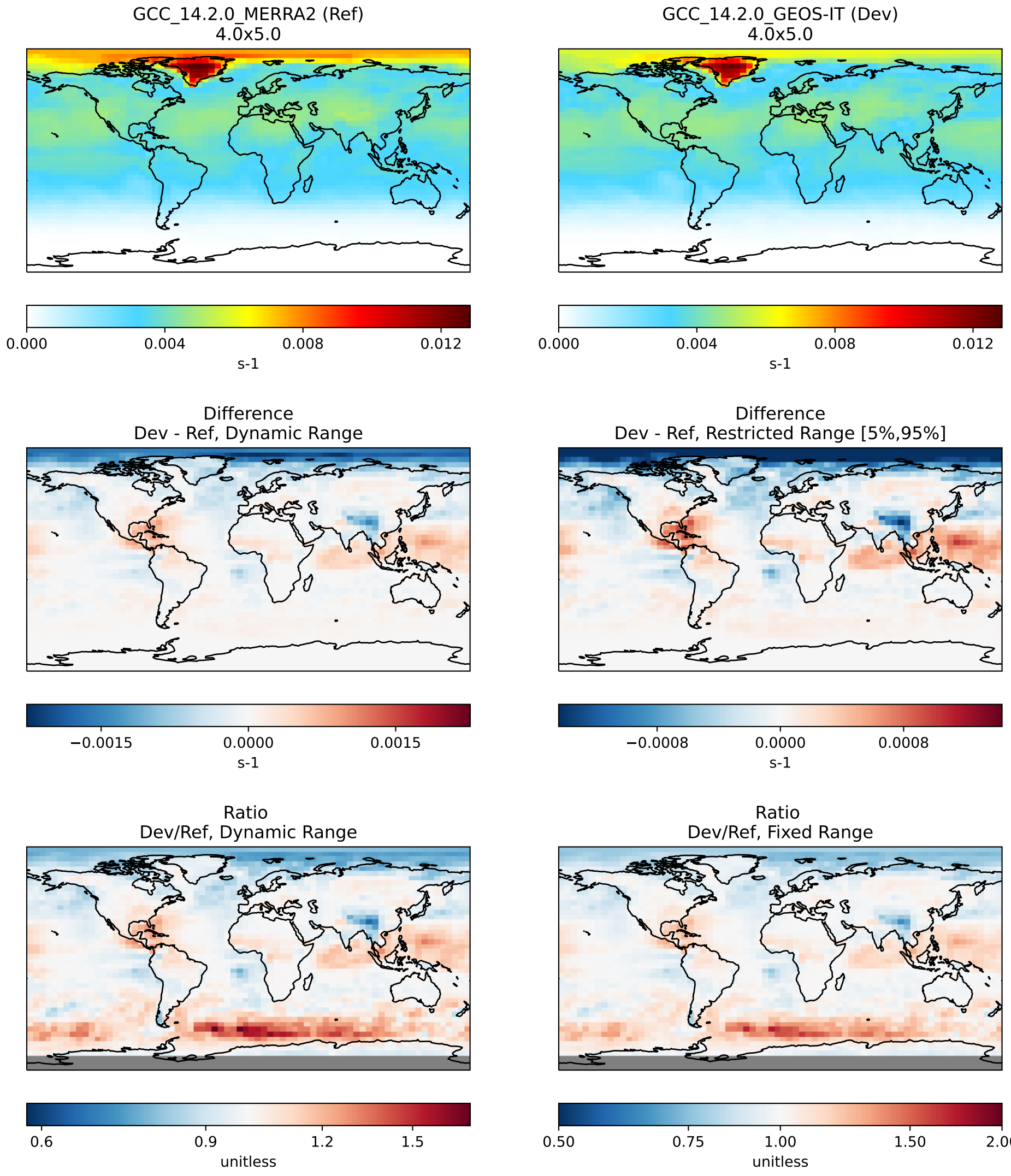
Jval_BZCO3H


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

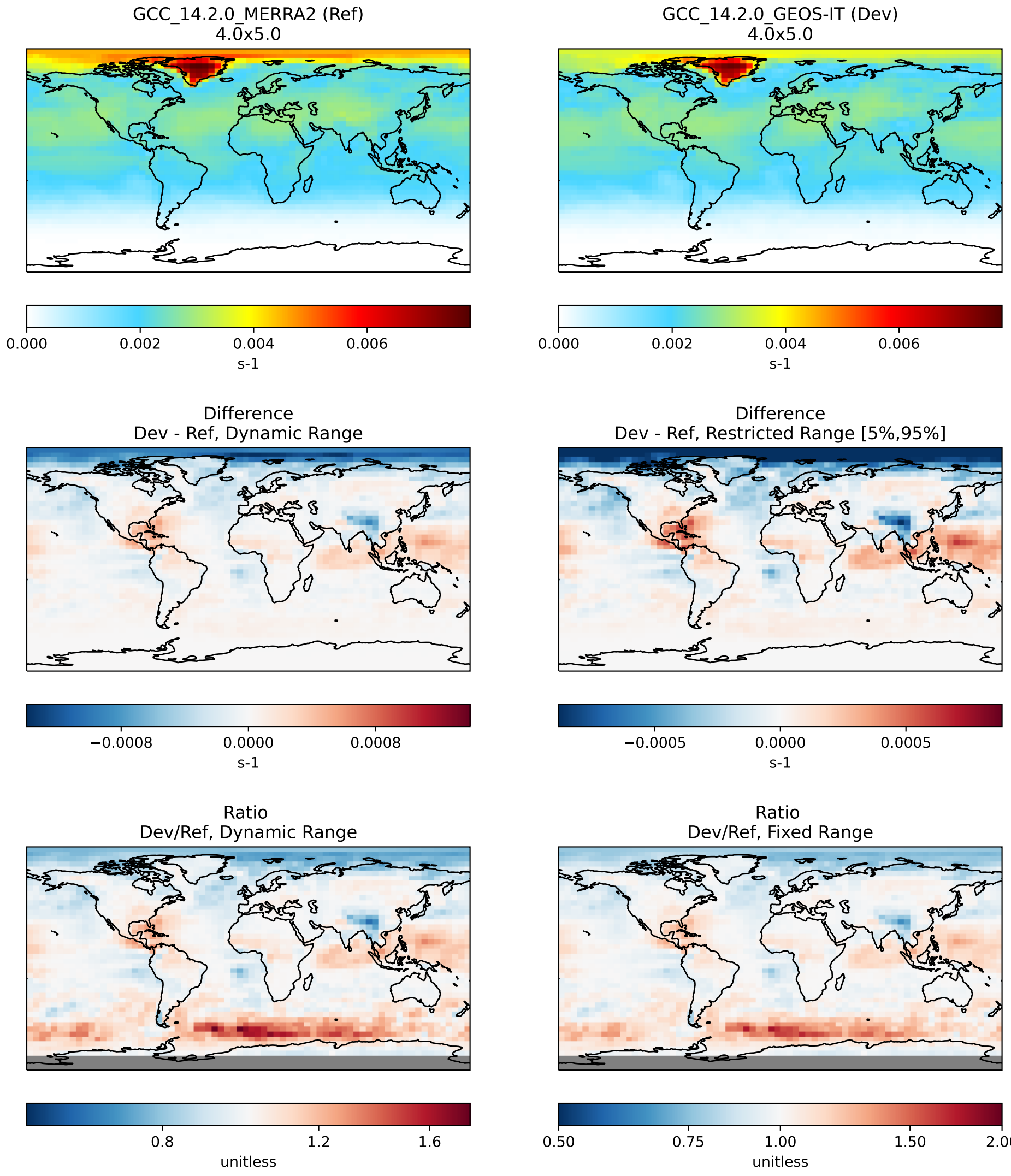
Jval_Br2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.000
0.015
0.030
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.000
0.015
0.030
s-1
Difference
Dev - Ref, Dynamic Range
−0.005
0.000
0.005
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.003
0.000
0.003
s-1
Ratio
Dev/Ref, Dynamic Range
0.8
1.2
1.6
2.0
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

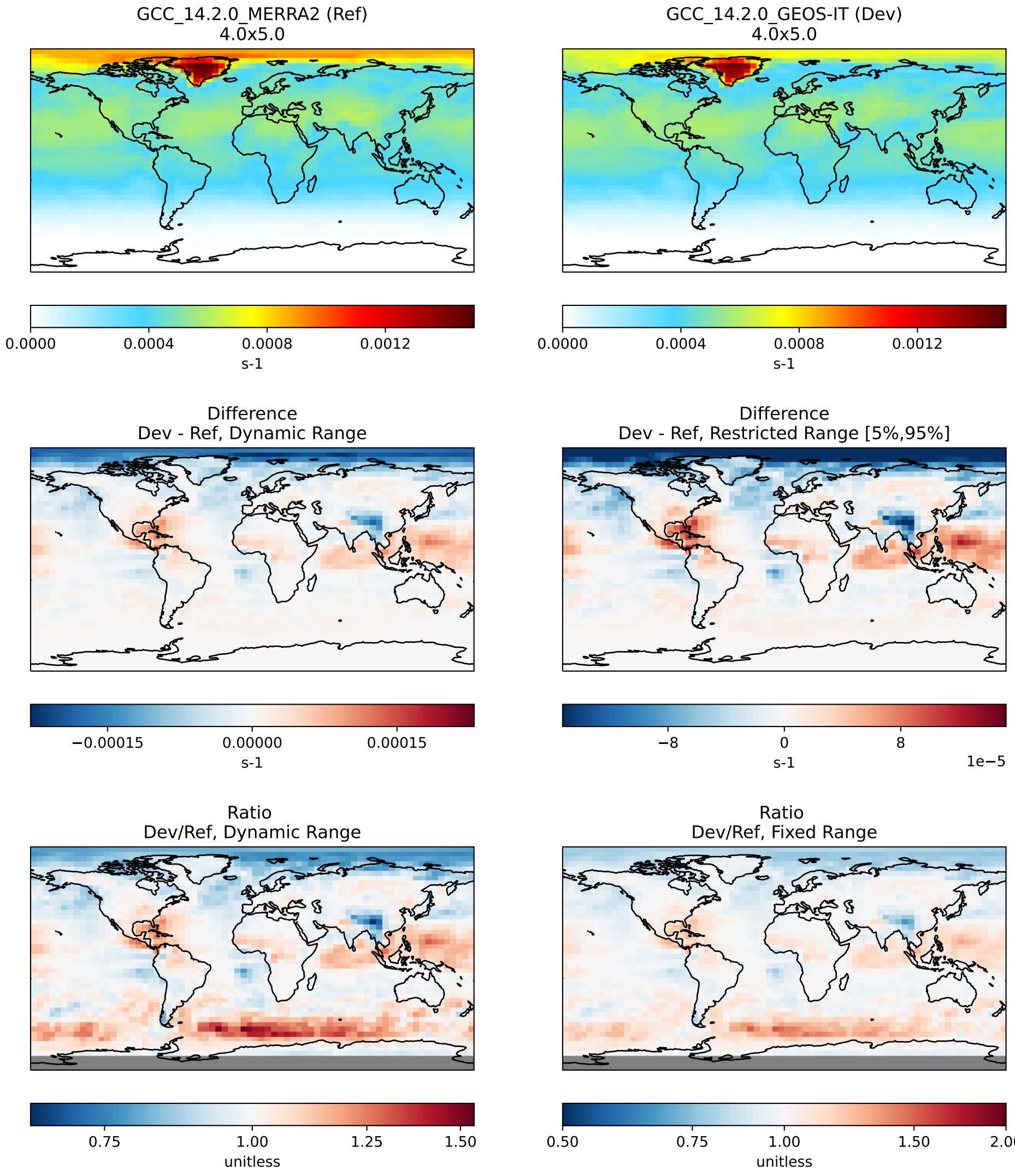
Jval_BrCl


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.000
0.004
0.008
0.012
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.000
0.004
0.008
0.012
s-1
Difference
Dev - Ref, Dynamic Range
−0.0015
0.0000
0.0015
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.0008
0.0000
0.0008
s-1
Ratio
Dev/Ref, Dynamic Range
0.6
0.9
1.2
1.5
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

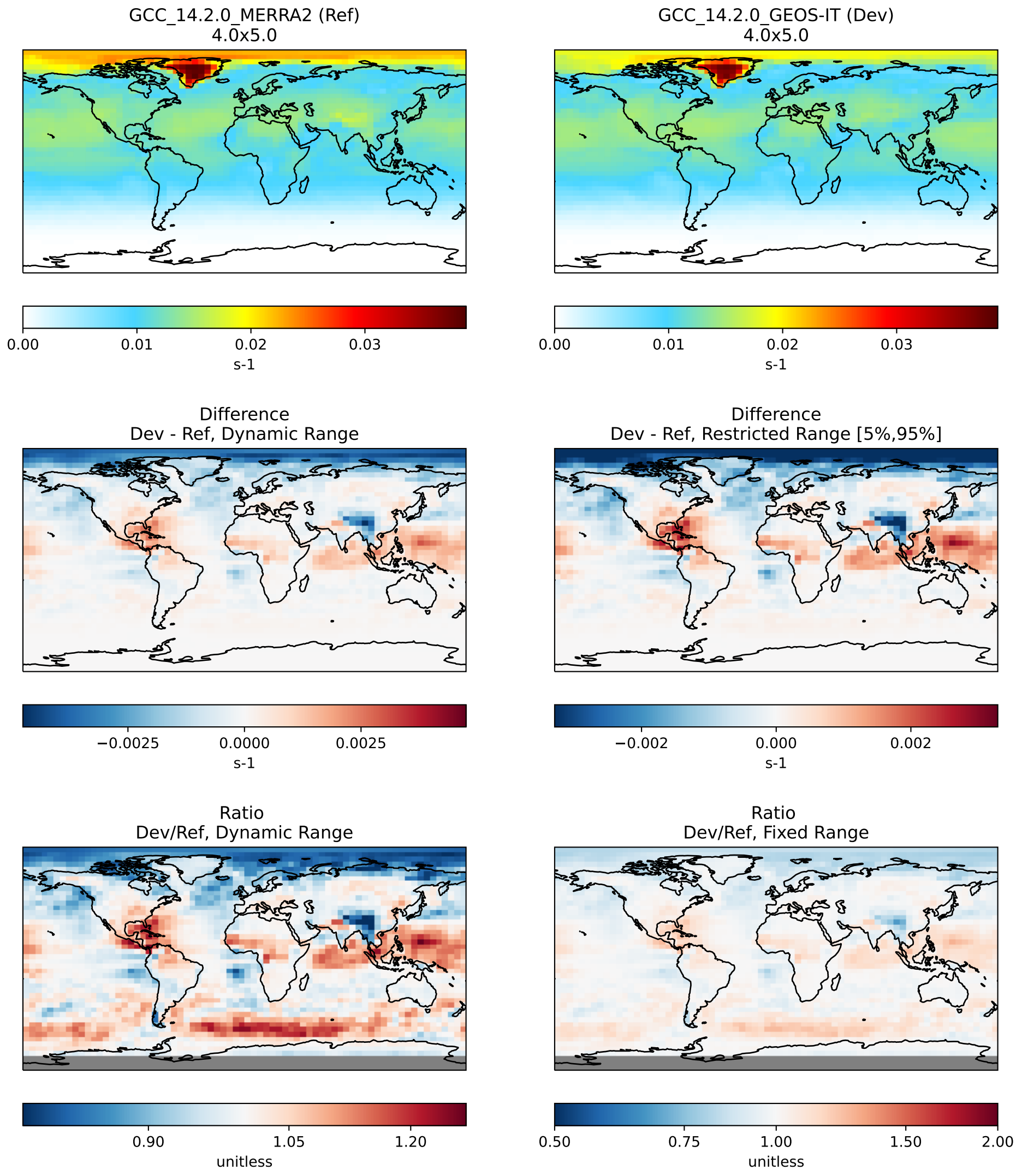
Jval_BrNO2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.000
0.002
0.004
0.006
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.000
0.002
0.004
0.006
s-1
Difference
Dev - Ref, Dynamic Range
−0.0008
0.0000
0.0008
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.0005
0.0000
0.0005
s-1
Ratio
Dev/Ref, Dynamic Range
0.8
1.2
1.6
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

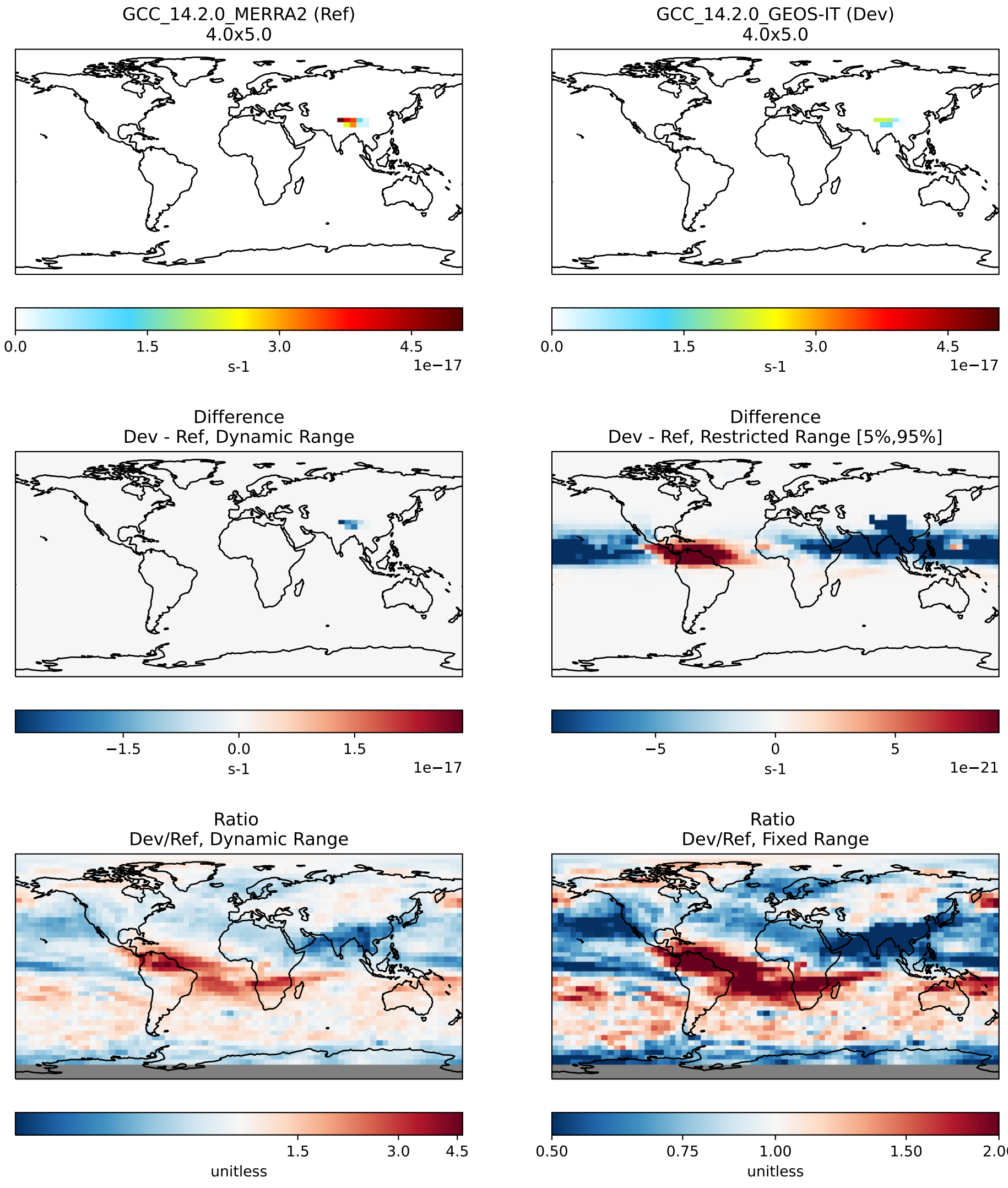
Jval_BrNO3


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0000
0.0004
0.0008
0.0012
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0000
0.0004
0.0008
0.0012
s-1
Difference
Dev - Ref, Dynamic Range
−0.00015
0.00000
0.00015
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−8
0
8
s-1
1e−5
Ratio
Dev/Ref, Dynamic Range
0.75
1.00
1.25
1.50
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

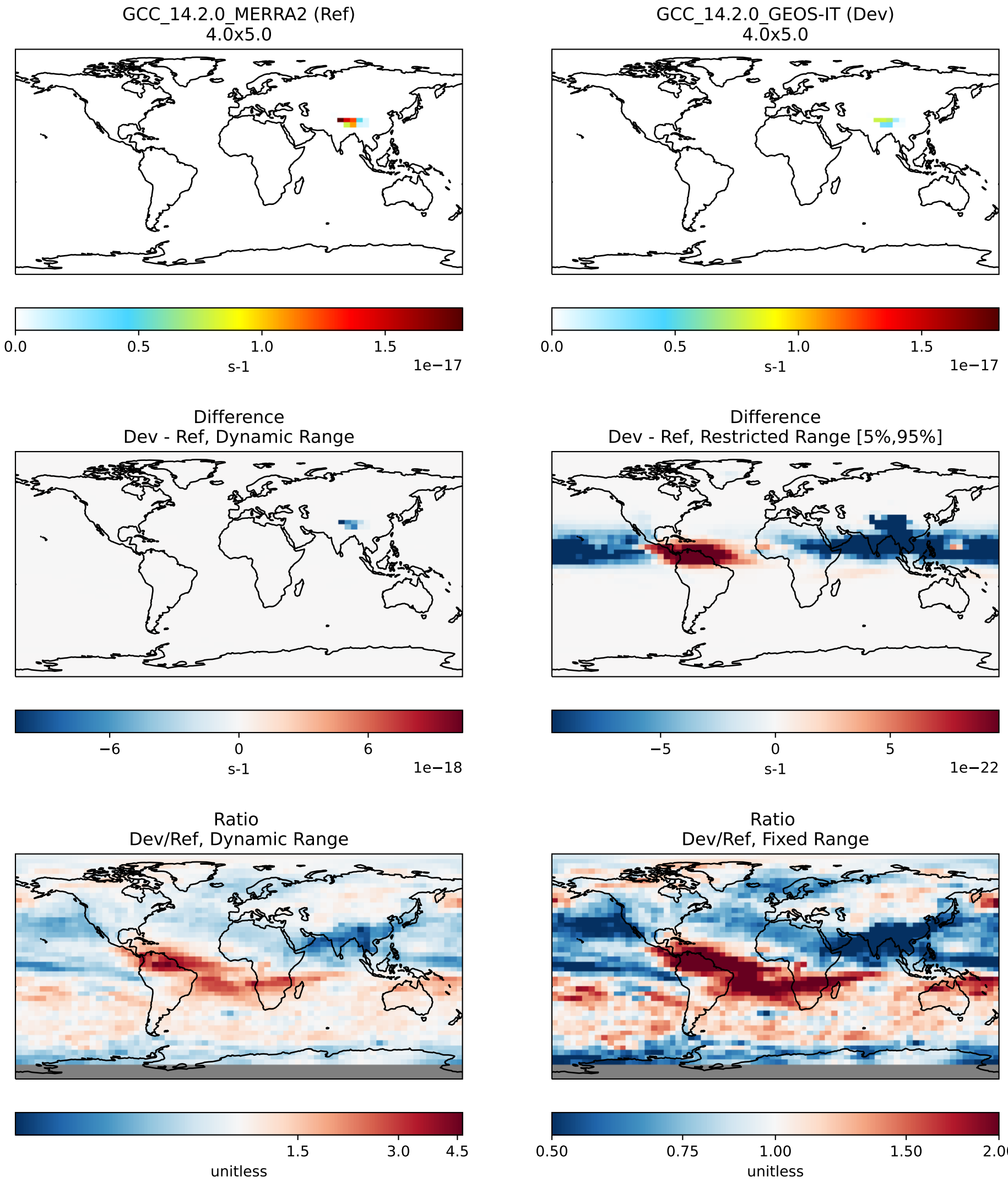
Jval_BrO


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00
0.01
0.02
0.03
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00
0.01
0.02
0.03
s-1
Difference
Dev - Ref, Dynamic Range
−0.0025
0.0000
0.0025
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.002
0.000
0.002
s-1
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

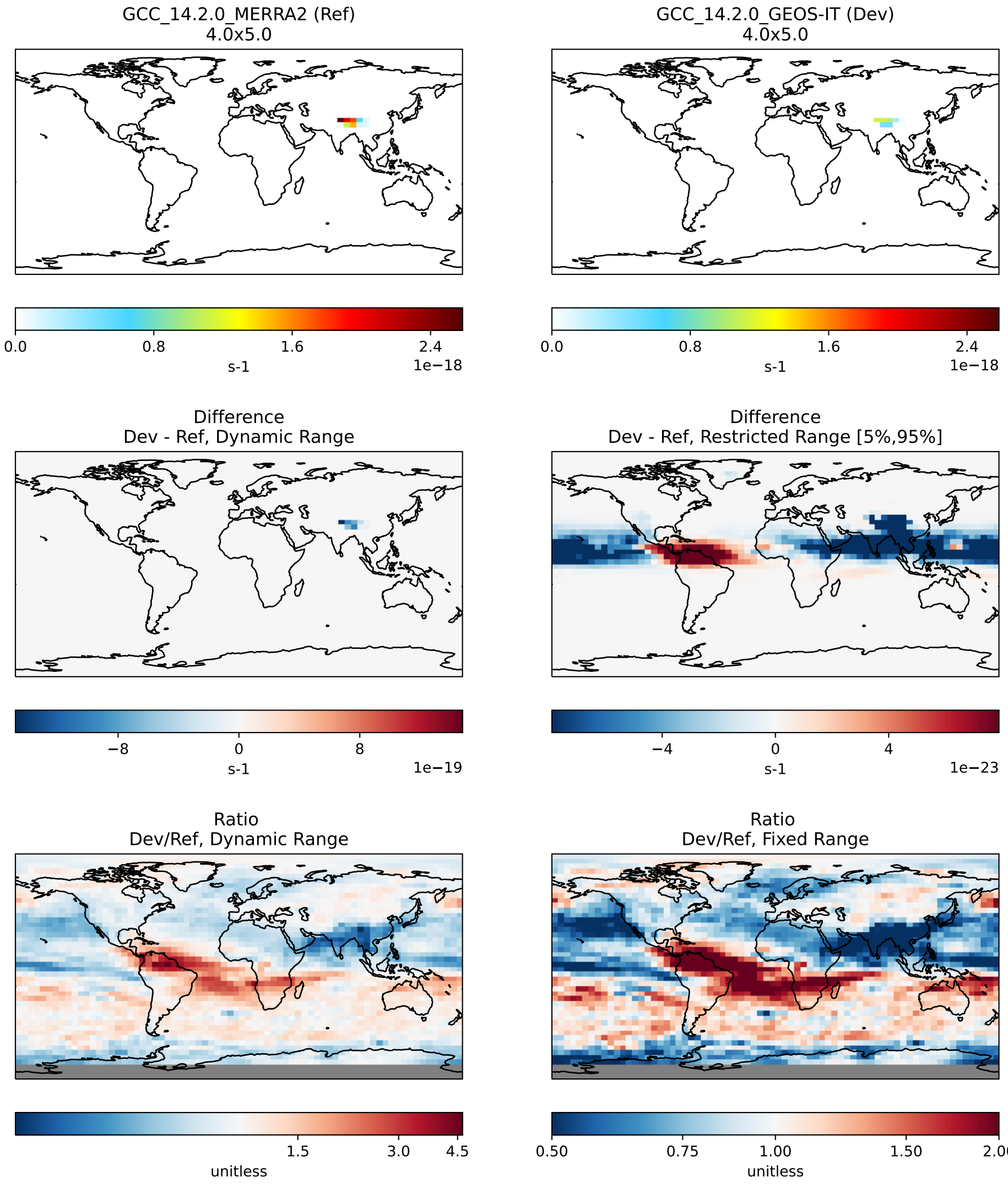
Jval_CCl4


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−17
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−17
Difference
Dev - Ref, Dynamic Range
−1.5
0.0
1.5
s-1
1e−17
Difference
Dev - Ref, Restricted Range [5%,95%]
−5
0
5
s-1
1e−21
Ratio
Dev/Ref, Dynamic Range
1.5
3.0
4.5
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

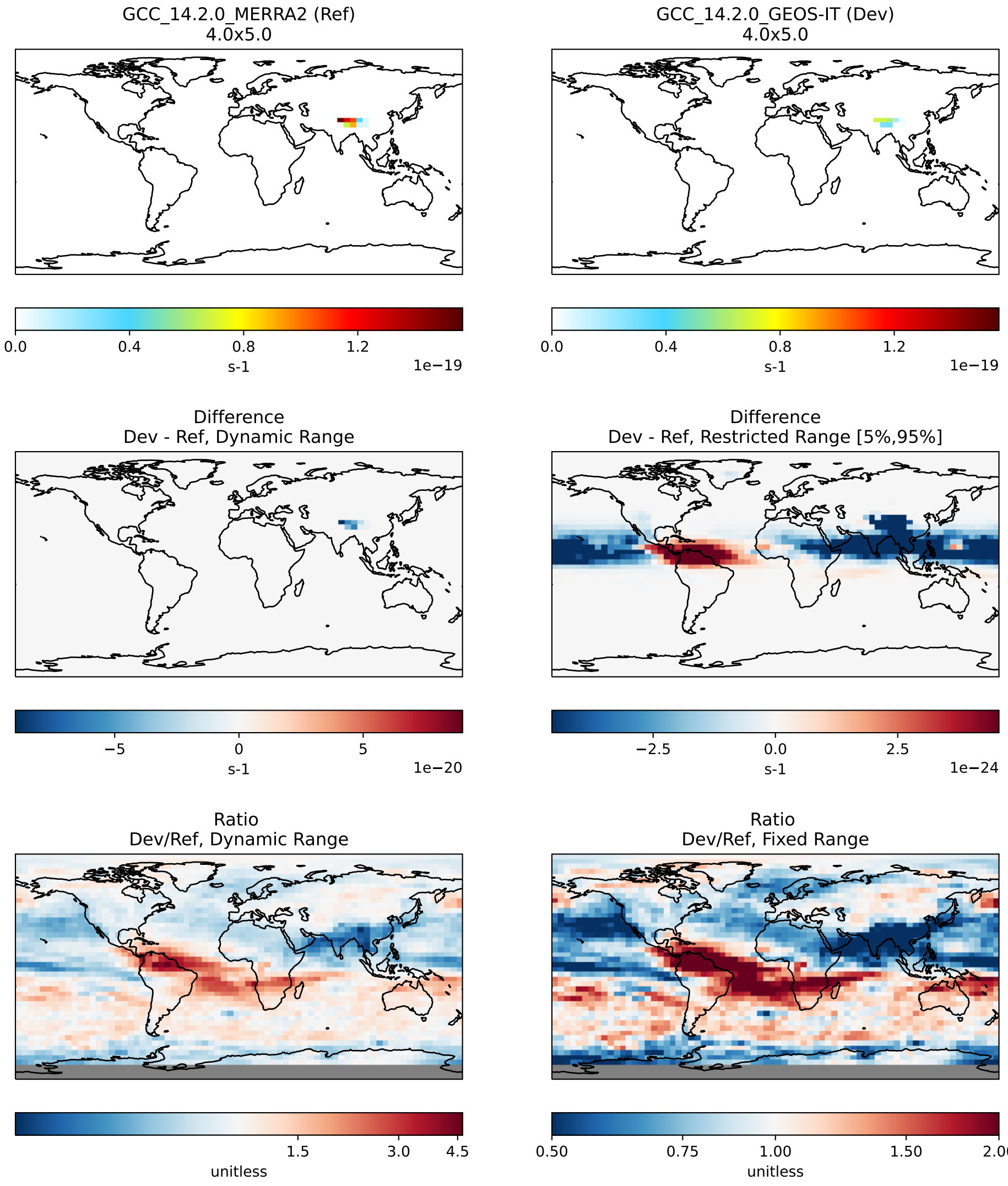
Jval_CFC11


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−17
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−17
Difference
Dev - Ref, Dynamic Range
−6
0
6
s-1
1e−18
Difference
Dev - Ref, Restricted Range [5%,95%]
−5
0
5
s-1
1e−22
Ratio
Dev/Ref, Dynamic Range
1.5
3.0
4.5
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

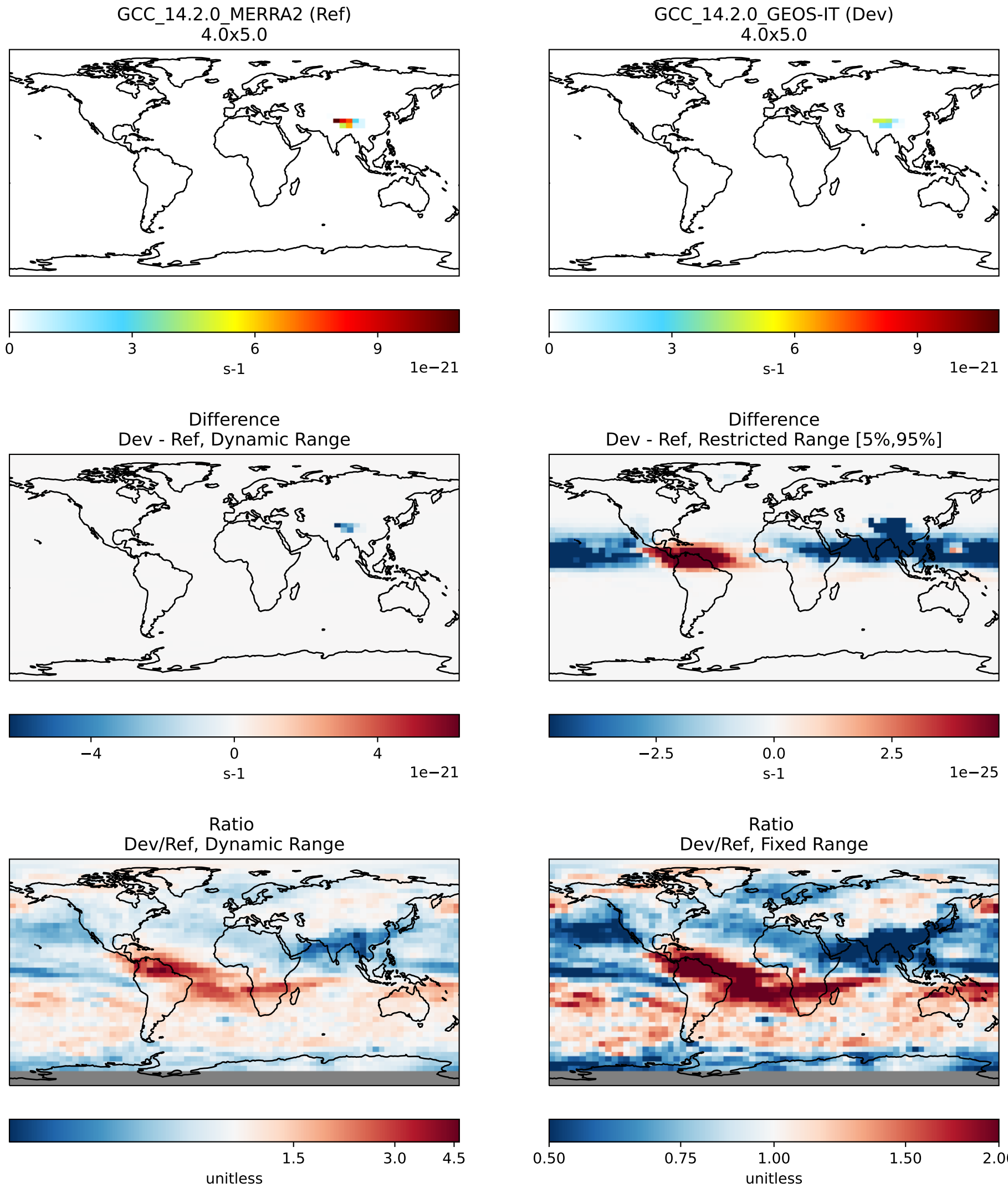
Jval_CFC113


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.8
1.6
2.4
s-1
1e−18
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.8
1.6
2.4
s-1
1e−18
Difference
Dev - Ref, Dynamic Range
−8
0
8
s-1
1e−19
Difference
Dev - Ref, Restricted Range [5%,95%]
−4
0
4
s-1
1e−23
Ratio
Dev/Ref, Dynamic Range
1.5
3.0
4.5
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

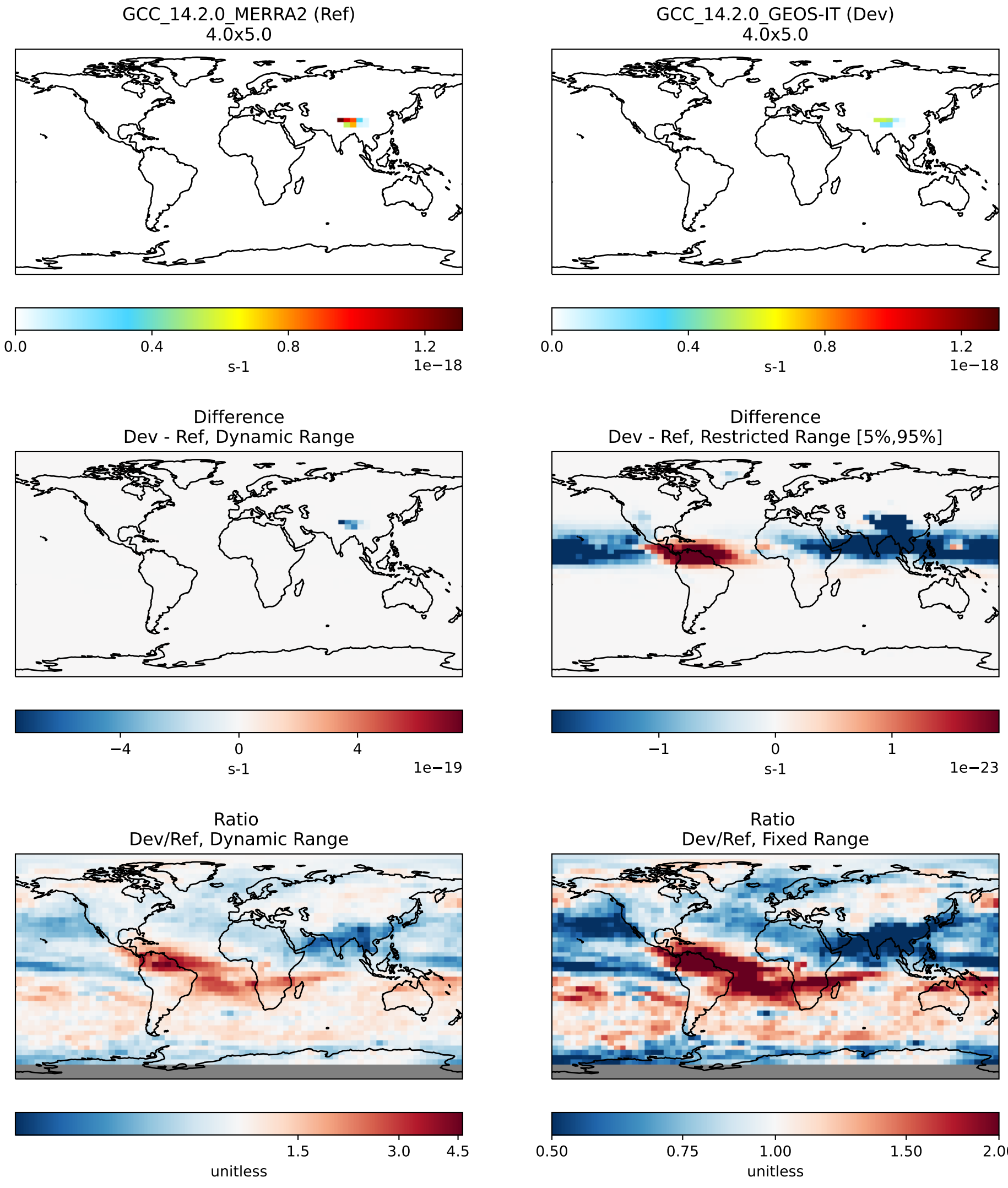
Jval_CFC114


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−19
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−19
Difference
Dev - Ref, Dynamic Range
−5
0
5
s-1
1e−20
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−24
Ratio
Dev/Ref, Dynamic Range
1.5
3.0
4.5
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

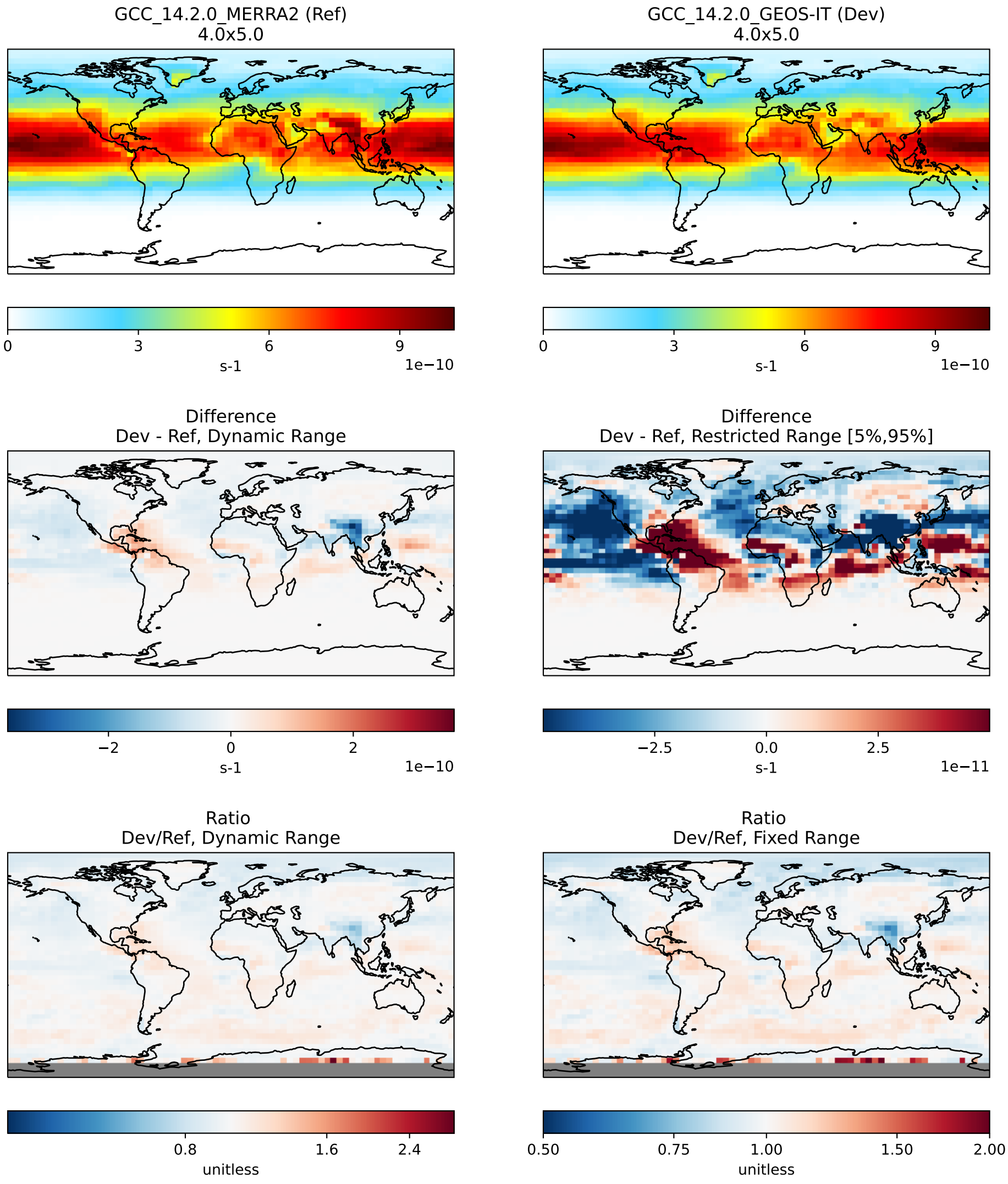
Jval_CFC115


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
3
6
9
s-1
1e−21
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
3
6
9
s-1
1e−21
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−21
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−25
Ratio
Dev/Ref, Dynamic Range
1.5
3.0
4.5
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

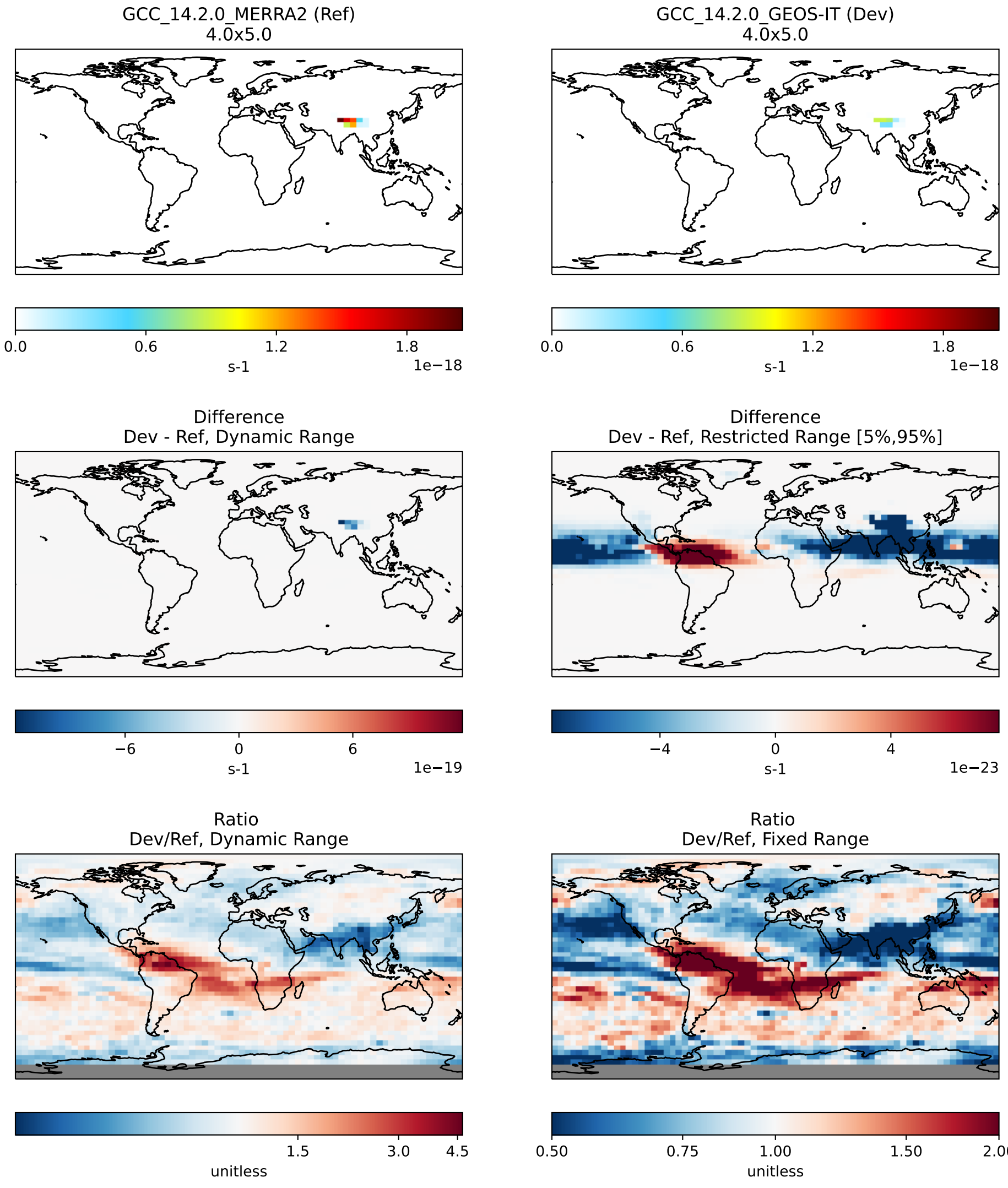
Jval_CFC12


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−18
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−18
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−19
Difference
Dev - Ref, Restricted Range [5%,95%]
−1
0
1
s-1
1e−23
Ratio
Dev/Ref, Dynamic Range
1.5
3.0
4.5
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

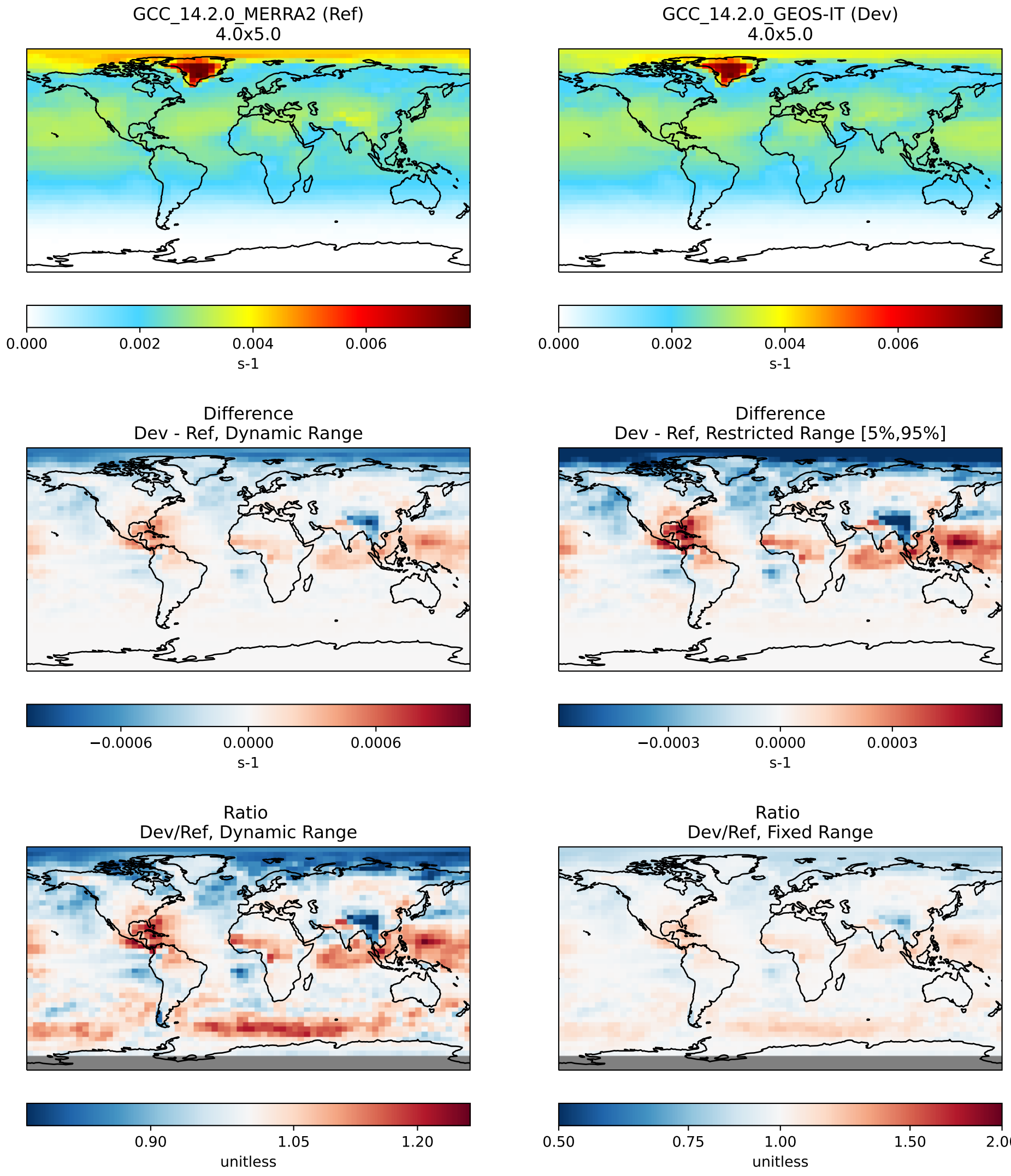
Jval_CH2Br2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
3
6
9
s-1
1e−10
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
3
6
9
s-1
1e−10
Difference
Dev - Ref, Dynamic Range
−2
0
2
s-1
1e−10
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−11
Ratio
Dev/Ref, Dynamic Range
0.8
1.6
2.4
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

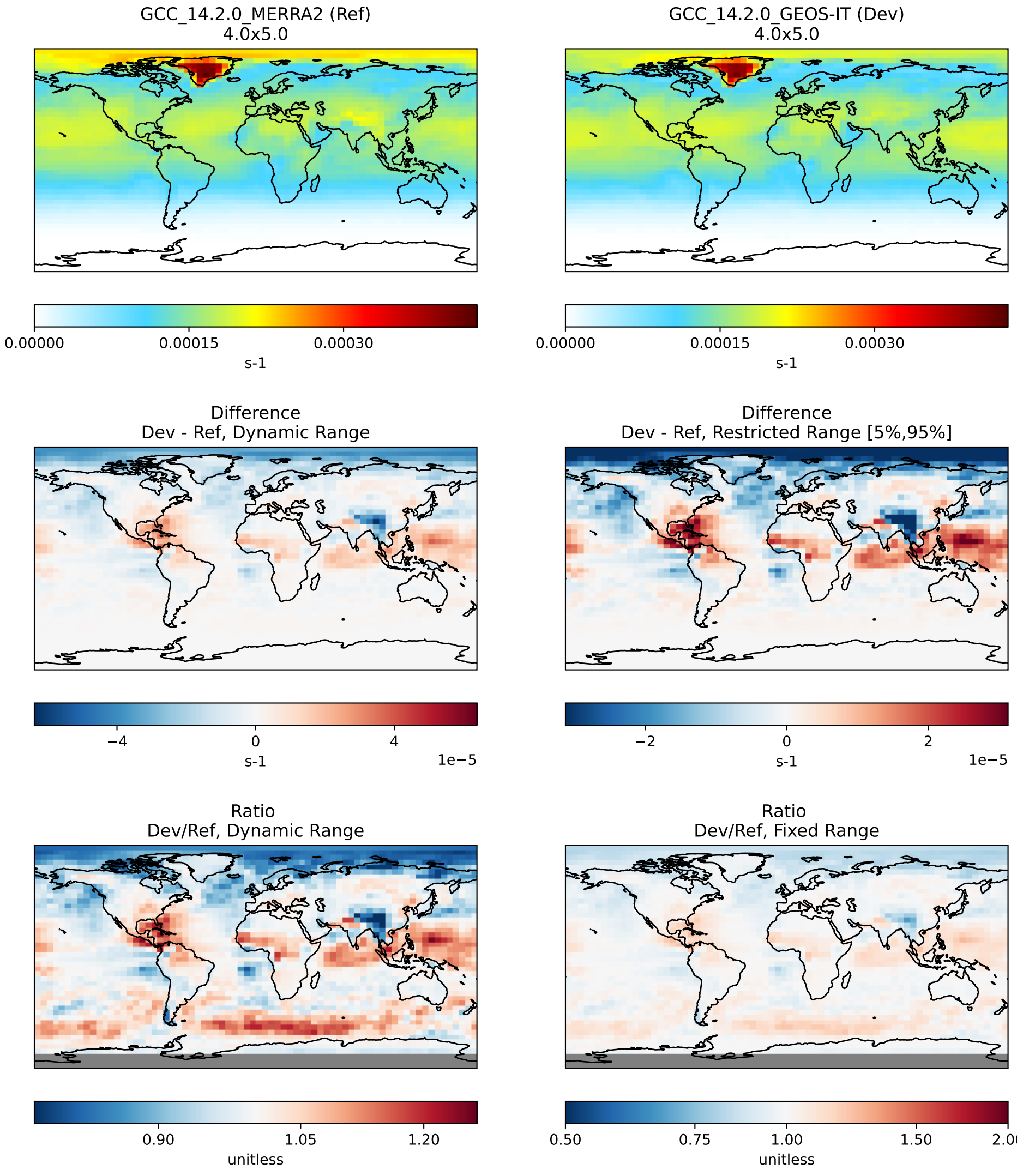
Jval_CH2Cl2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.6
1.2
1.8
s-1
1e−18
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.6
1.2
1.8
s-1
1e−18
Difference
Dev - Ref, Dynamic Range
−6
0
6
s-1
1e−19
Difference
Dev - Ref, Restricted Range [5%,95%]
−4
0
4
s-1
1e−23
Ratio
Dev/Ref, Dynamic Range
1.5
3.0
4.5
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

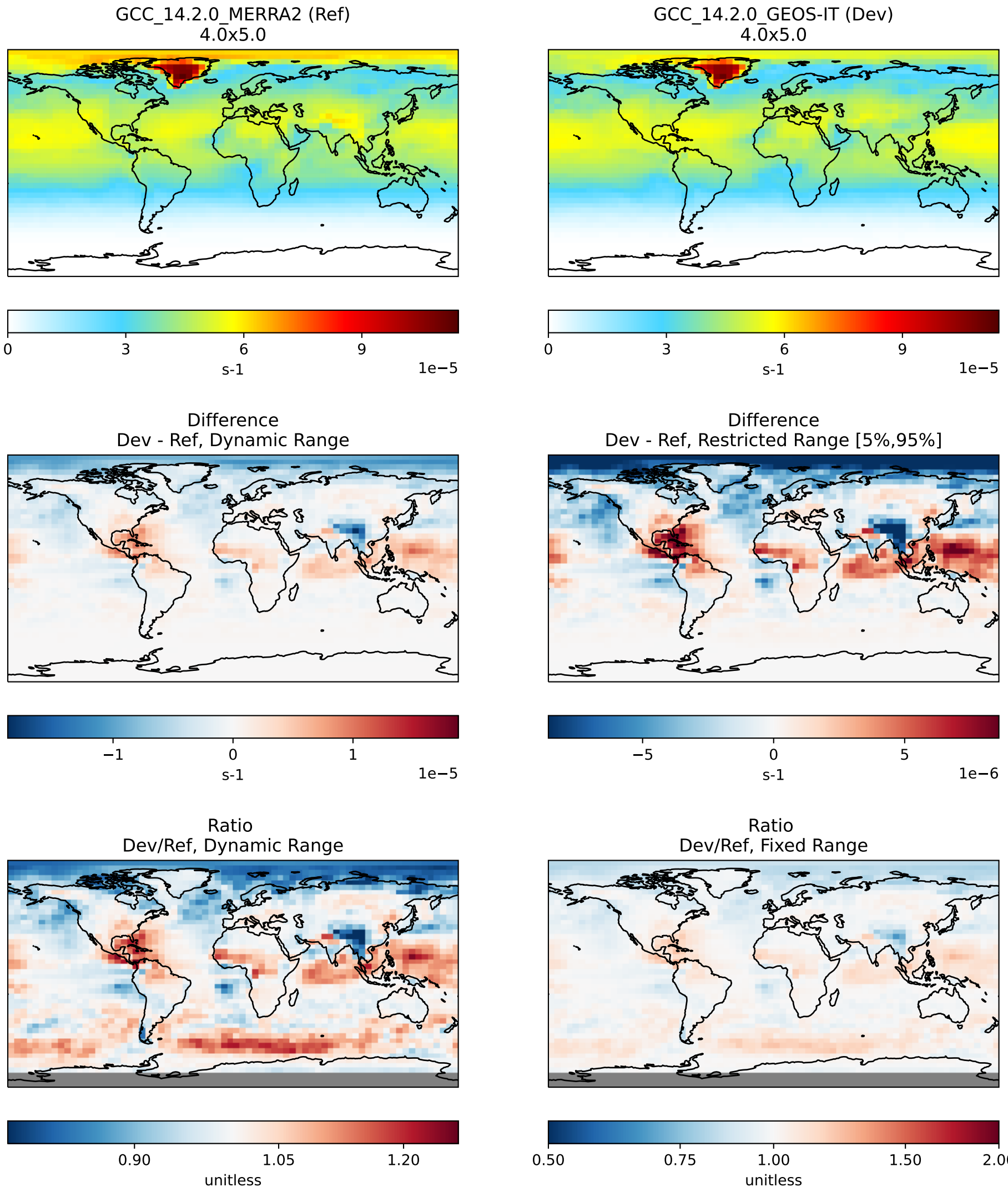
Jval_CH2I2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.000
0.002
0.004
0.006
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.000
0.002
0.004
0.006
s-1
Difference
Dev - Ref, Dynamic Range
−0.0006
0.0000
0.0006
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.0003
0.0000
0.0003
s-1
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

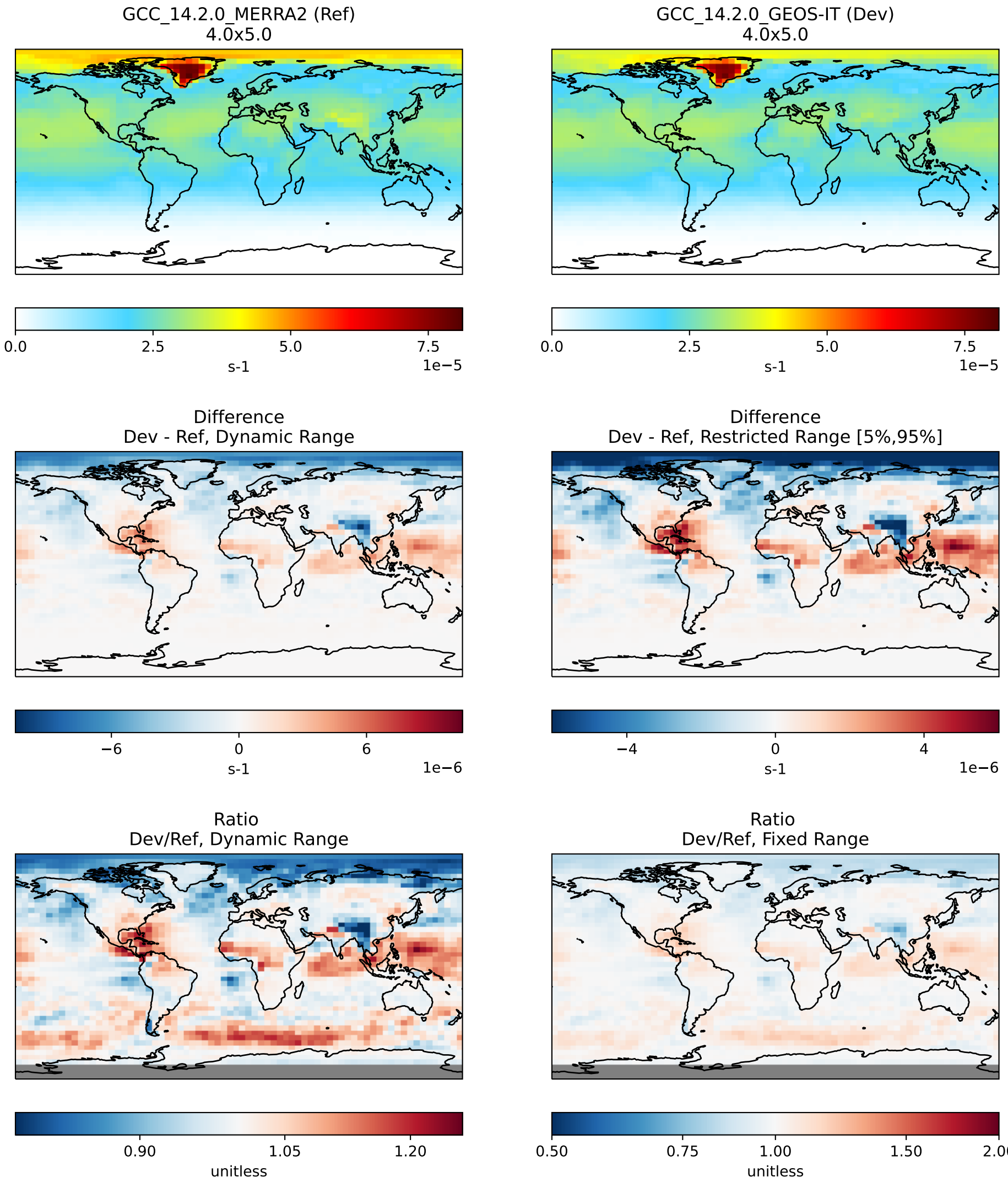
Jval_CH2IBr


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00000
0.00015
0.00030
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00000
0.00015
0.00030
s-1
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−5
Difference
Dev - Ref, Restricted Range [5%,95%]
−2
0
2
s-1
1e−5
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

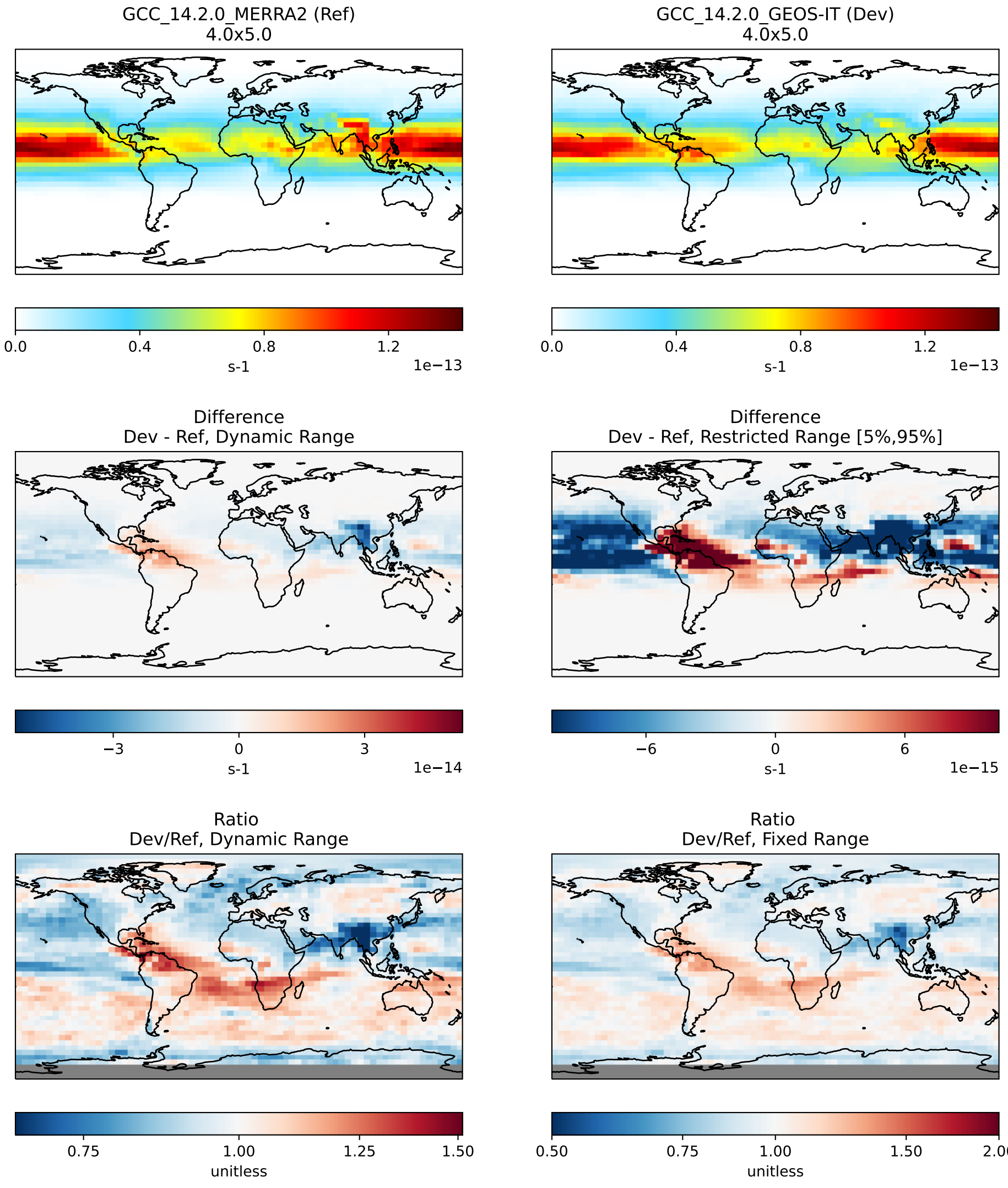
Jval_CH2ICl


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
3
6
9
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
3
6
9
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−1
0
1
s-1
1e−5
Difference
Dev - Ref, Restricted Range [5%,95%]
−5
0
5
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

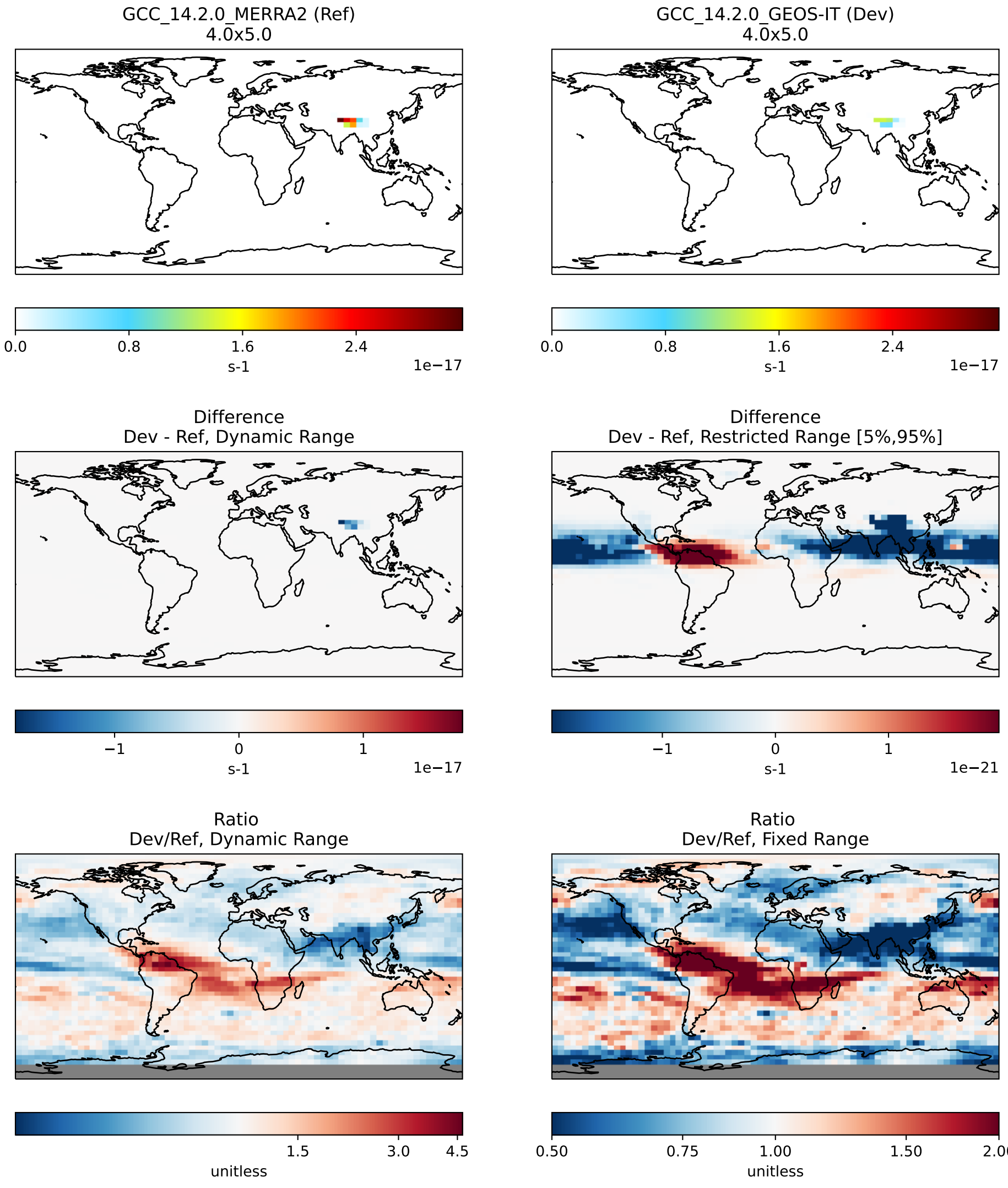
Jval_CH2O


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
2.5
5.0
7.5
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
2.5
5.0
7.5
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−6
0
6
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−4
0
4
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

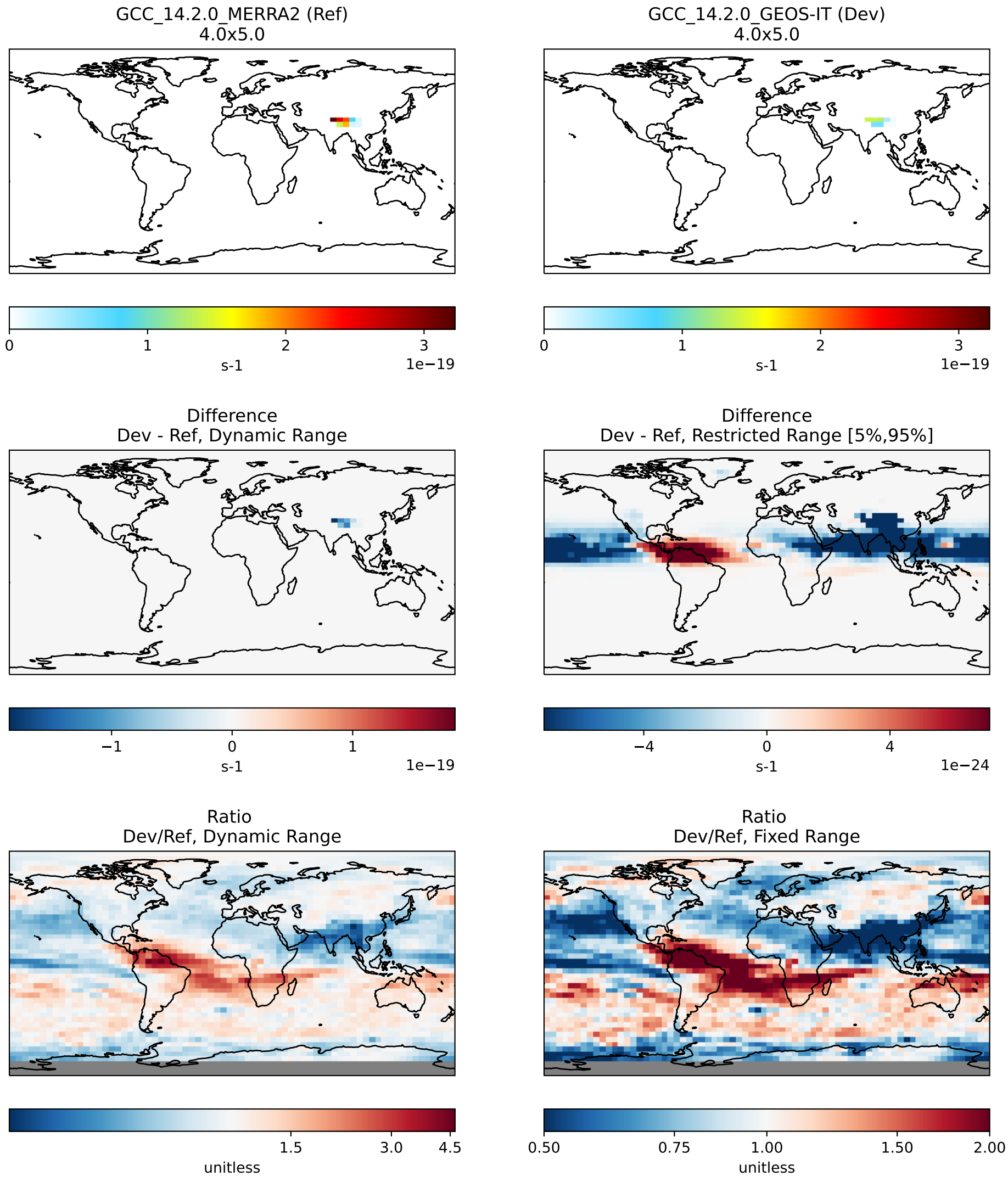
Jval_CH3Br


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−13
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−13
Difference
Dev - Ref, Dynamic Range
−3
0
3
s-1
1e−14
Difference
Dev - Ref, Restricted Range [5%,95%]
−6
0
6
s-1
1e−15
Ratio
Dev/Ref, Dynamic Range
0.75
1.00
1.25
1.50
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

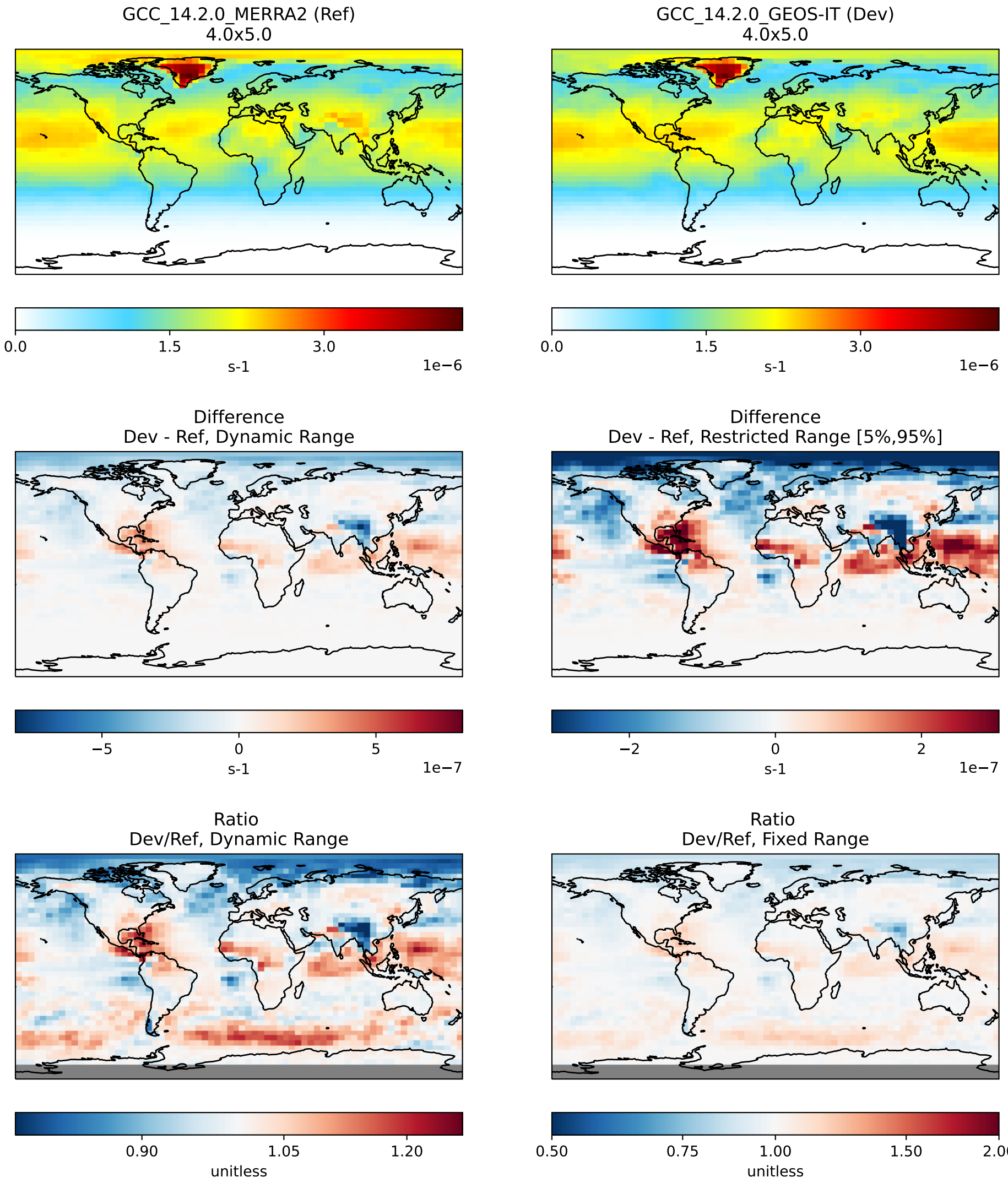
Jval_CH3CCl3



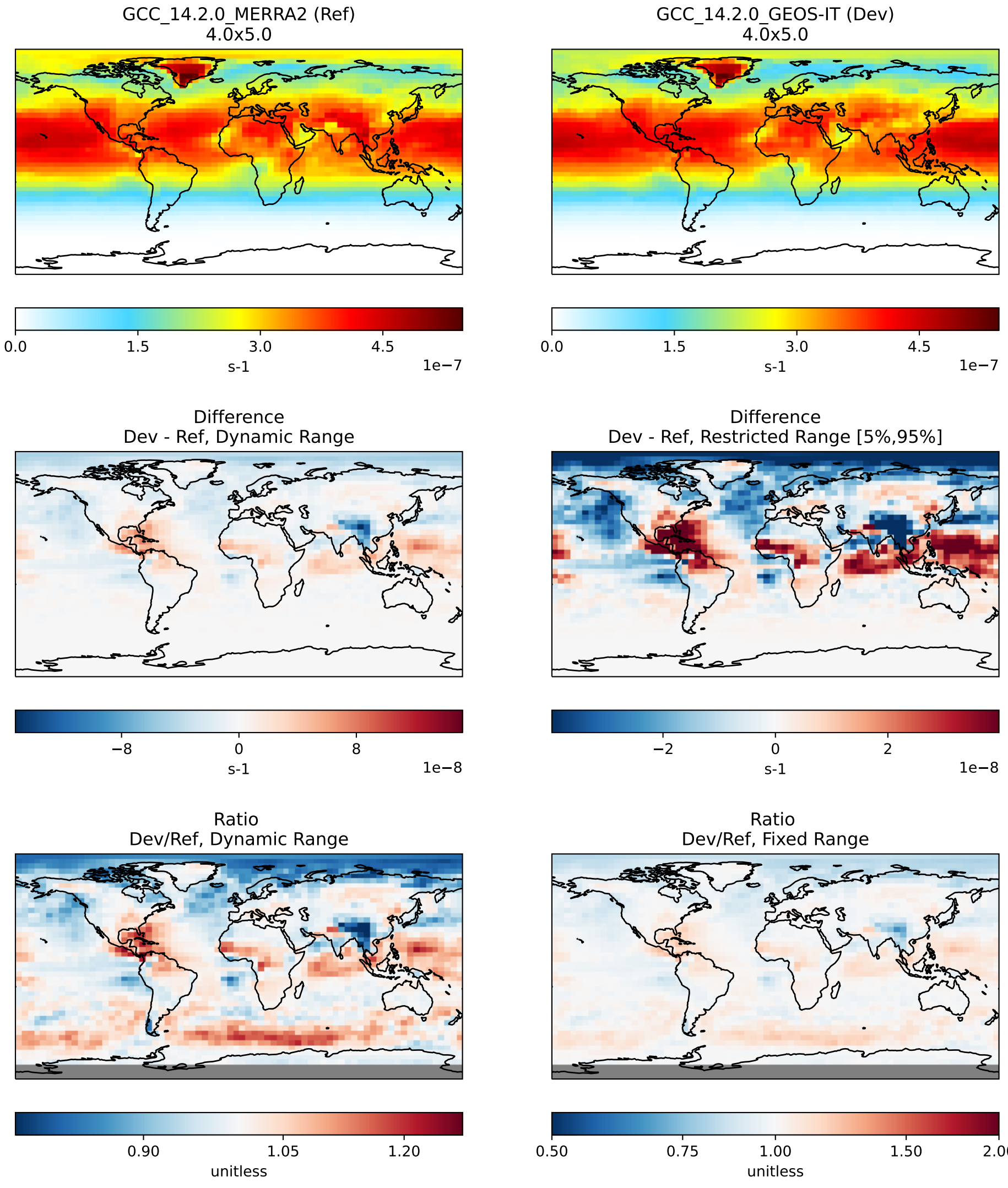
Jval_CH3Cl


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
1
2
3
s-1
1e−19
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
1
2
3
s-1
1e−19
Difference
Dev - Ref, Dynamic Range
−1
0
1
s-1
1e−19
Difference
Dev - Ref, Restricted Range [5%,95%]
−4
0
4
s-1
1e−24
Ratio
Dev/Ref, Dynamic Range
1.5
3.0
4.5
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

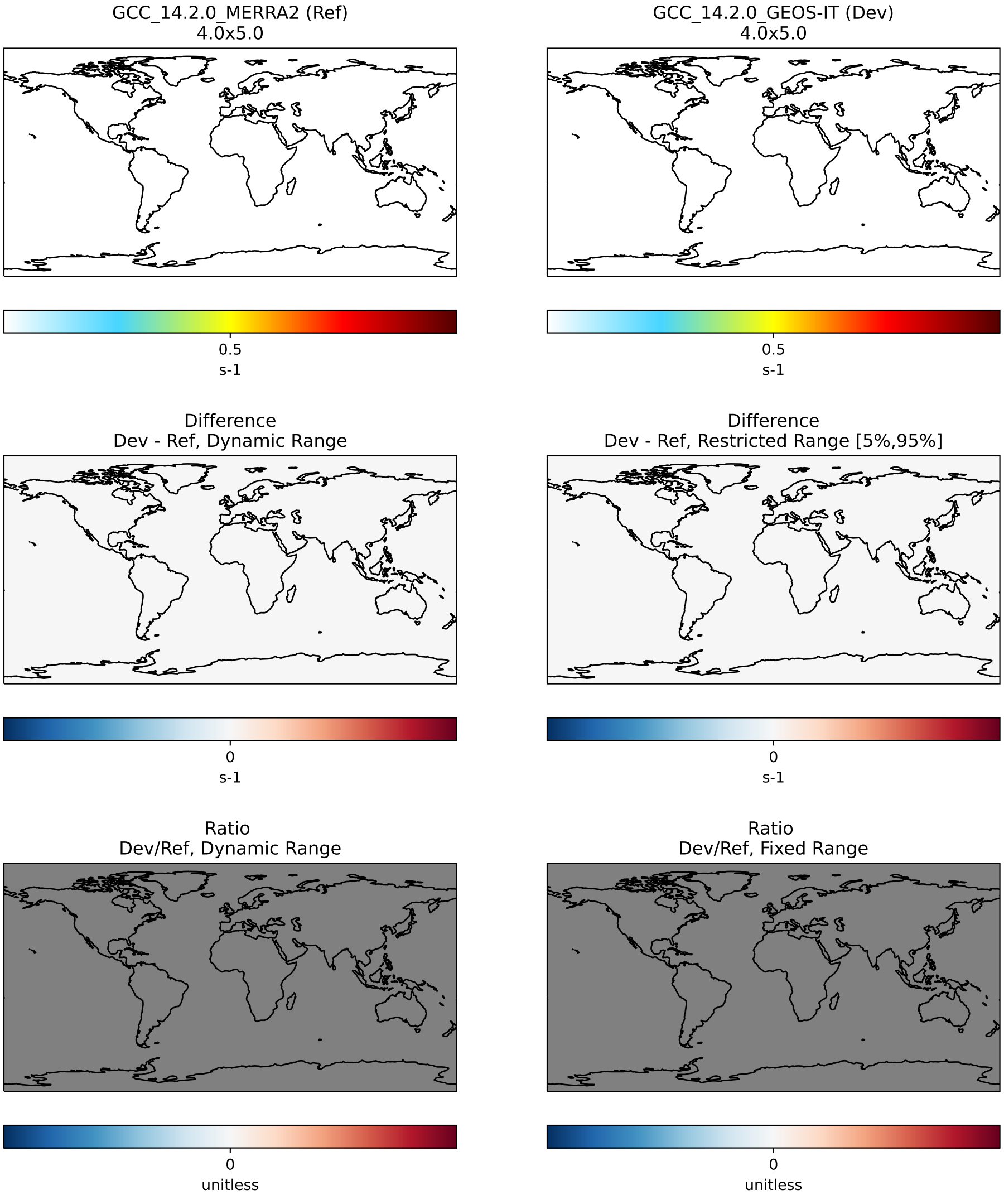
Jval_CH3I


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−5
0
5
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2
0
2
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

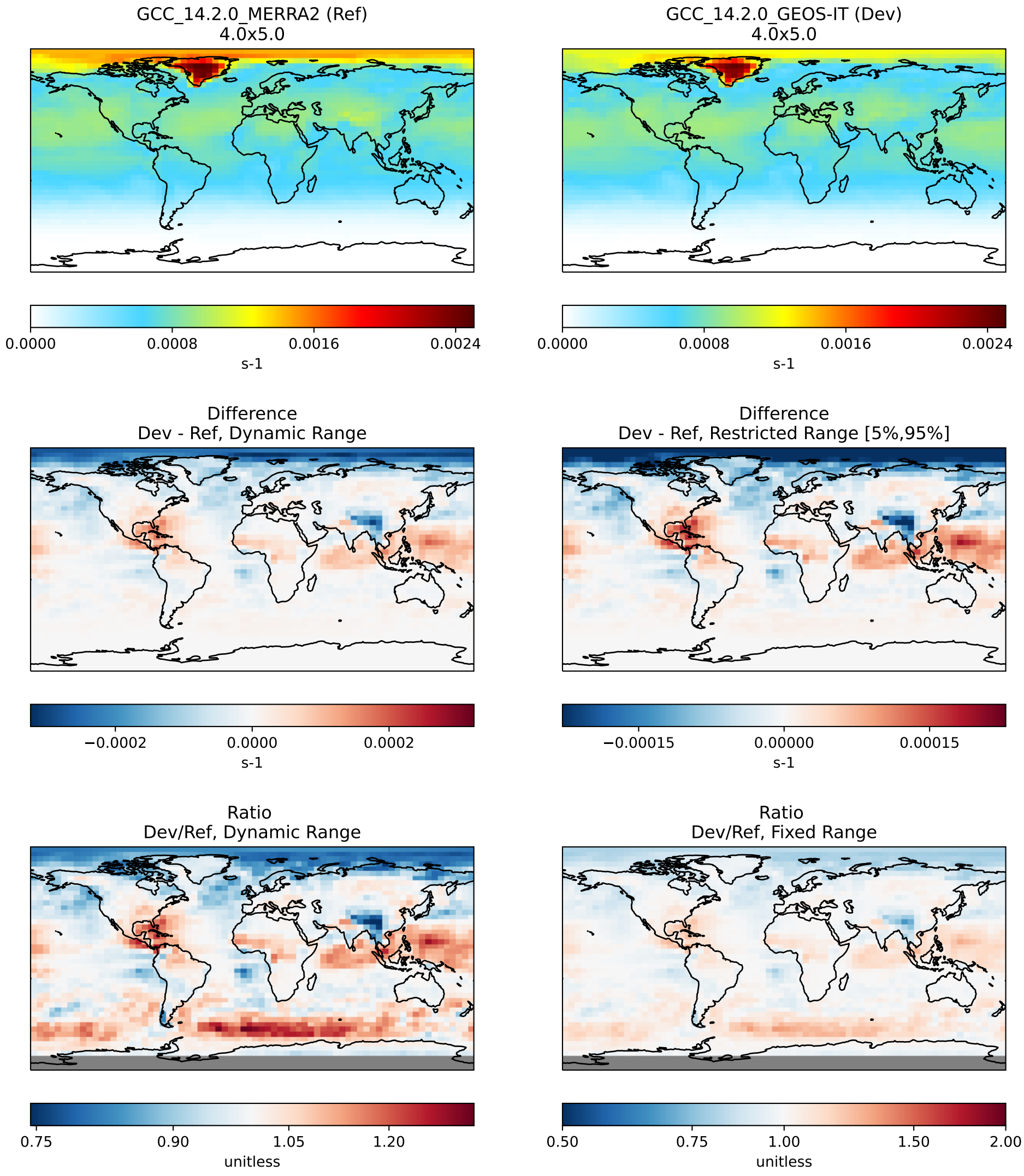
Jval_CHBr3


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−7
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−7
Difference
Dev - Ref, Dynamic Range
−8
0
8
s-1
1e−8
Difference
Dev - Ref, Restricted Range [5%,95%]
−2
0
2
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

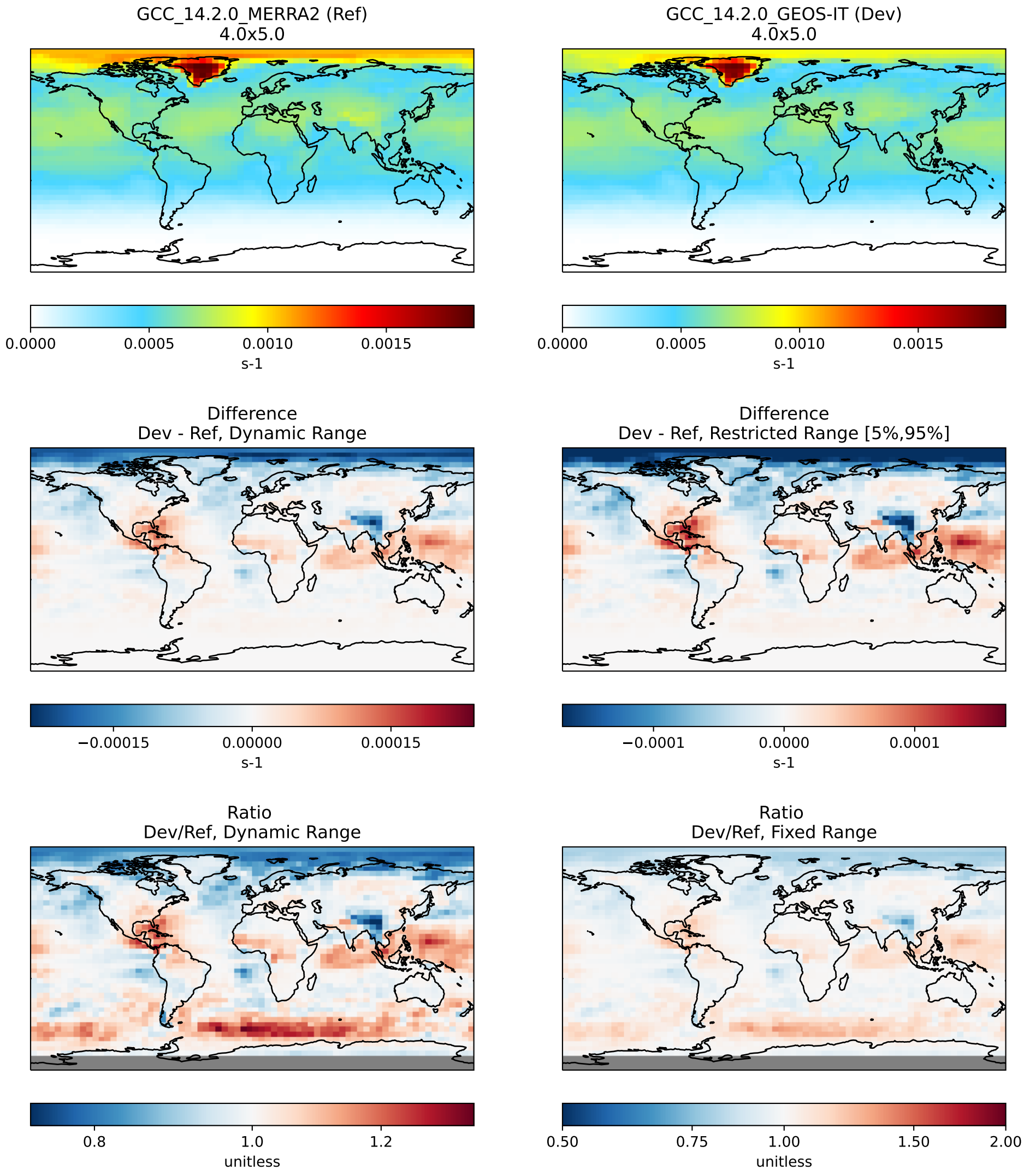
Jval_CHCl3


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.5
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.5
s-1
Difference
Dev - Ref, Dynamic Range
0
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
0
s-1
Ratio
Dev/Ref, Dynamic Range
0
unitless
Ratio
Dev/Ref, Fixed Range
0
unitless

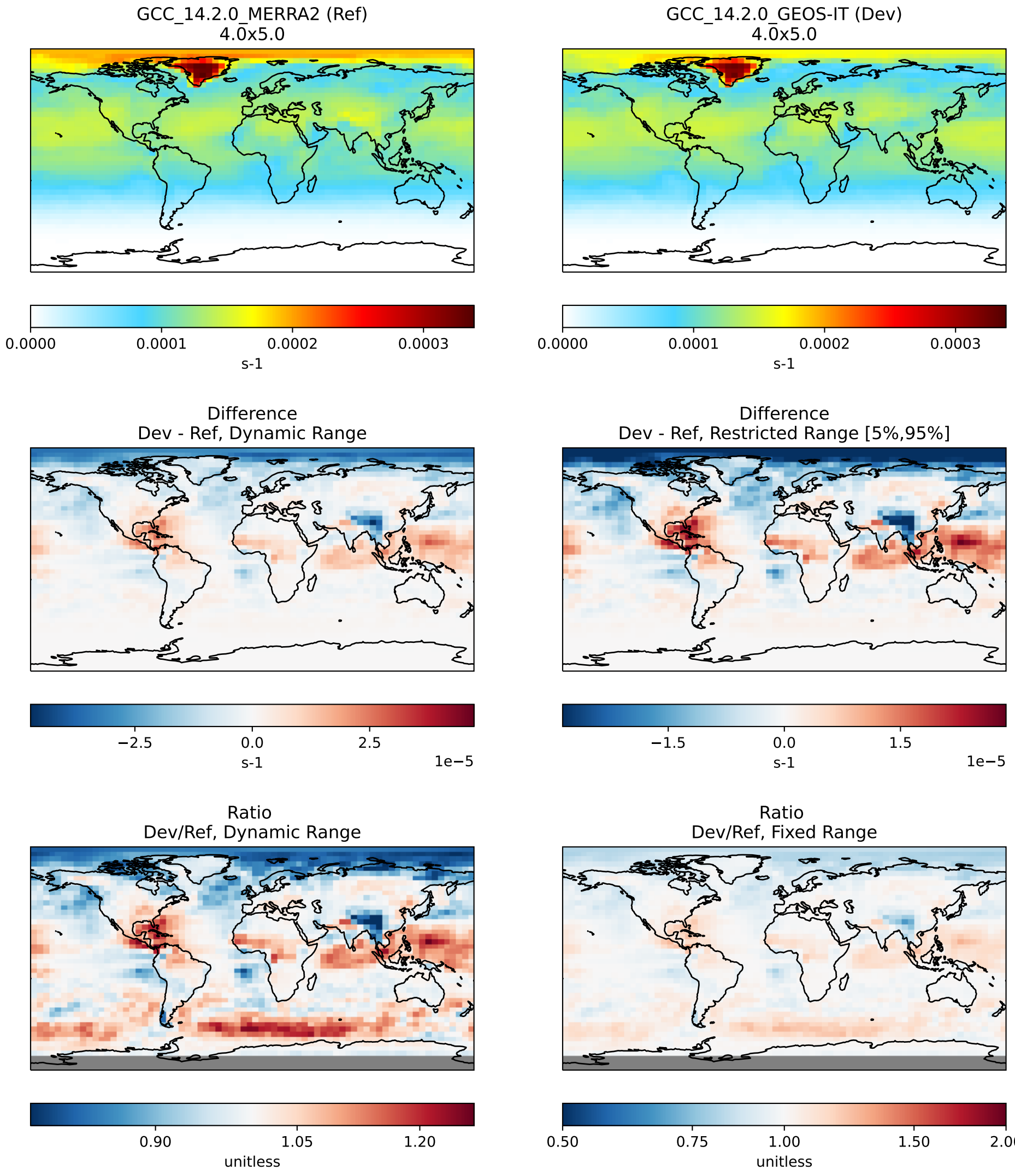
Jval_Cl2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0000
0.0008
0.0016
0.0024
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0000
0.0008
0.0016
0.0024
s-1
Difference
Dev - Ref, Dynamic Range
−0.0002
0.0000
0.0002
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.00015
0.00000
0.00015
s-1
Ratio
Dev/Ref, Dynamic Range
0.75
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

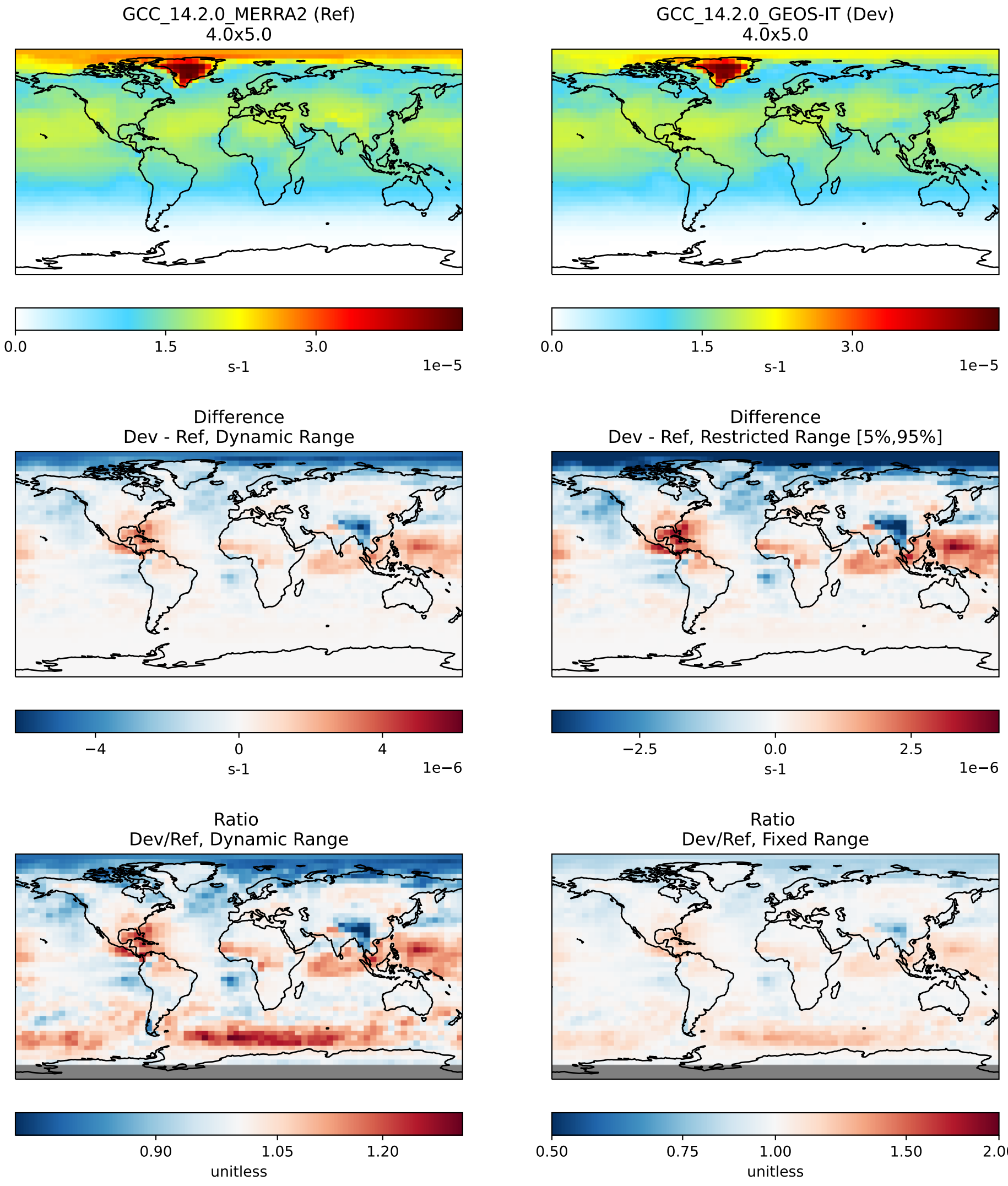
Jval_Cl2O2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0000
0.0005
0.0010
0.0015
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0000
0.0005
0.0010
0.0015
s-1
Difference
Dev - Ref, Dynamic Range
−0.00015
0.00000
0.00015
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.0001
0.0000
0.0001
s-1
Ratio
Dev/Ref, Dynamic Range
0.8
1.0
1.2
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

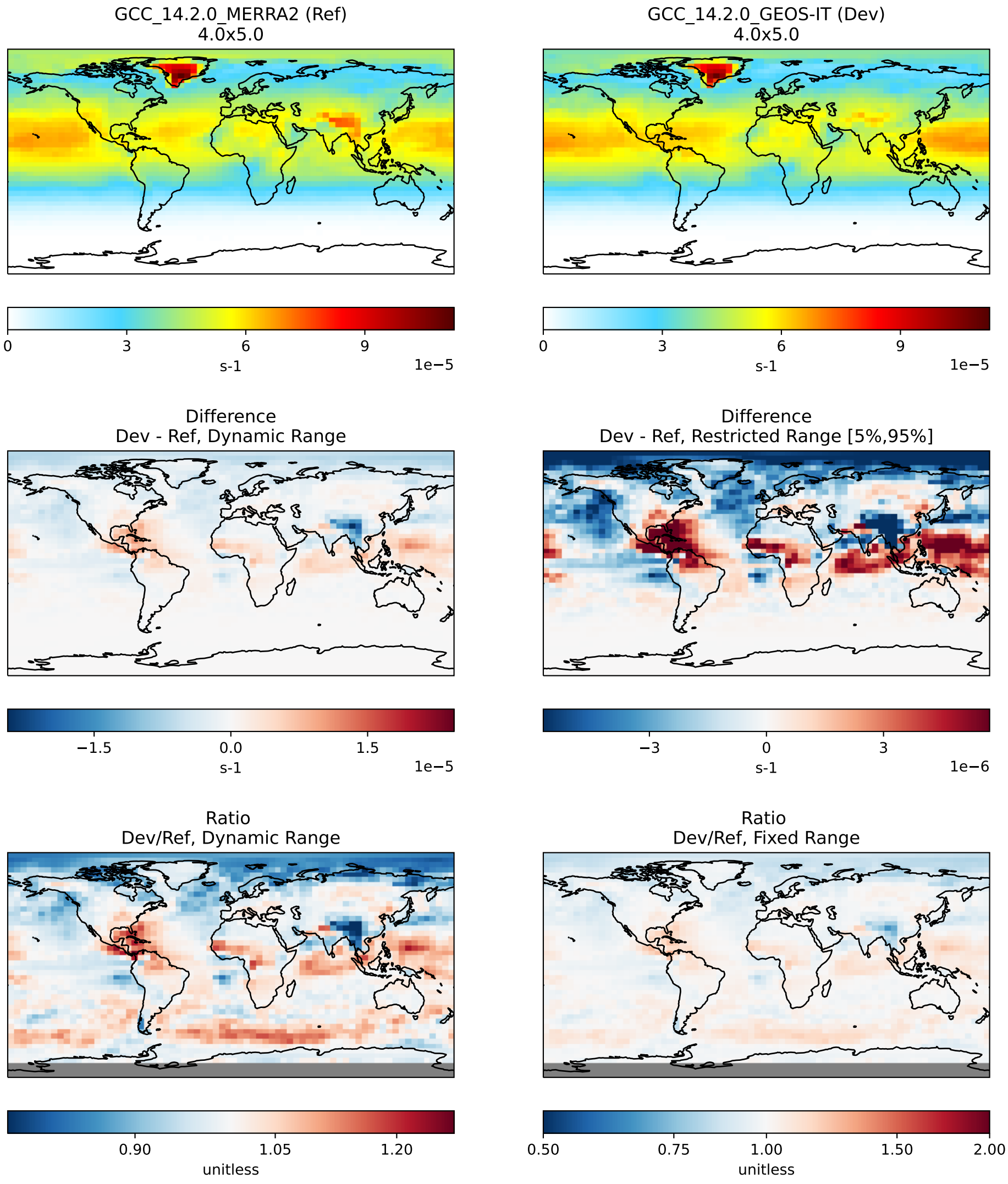
Jval_ClNO2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0000
0.0001
0.0002
0.0003
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0000
0.0001
0.0002
0.0003
s-1
Difference
Dev - Ref, Dynamic Range
−2.5
0.0
2.5
s-1
1e−5
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−5
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

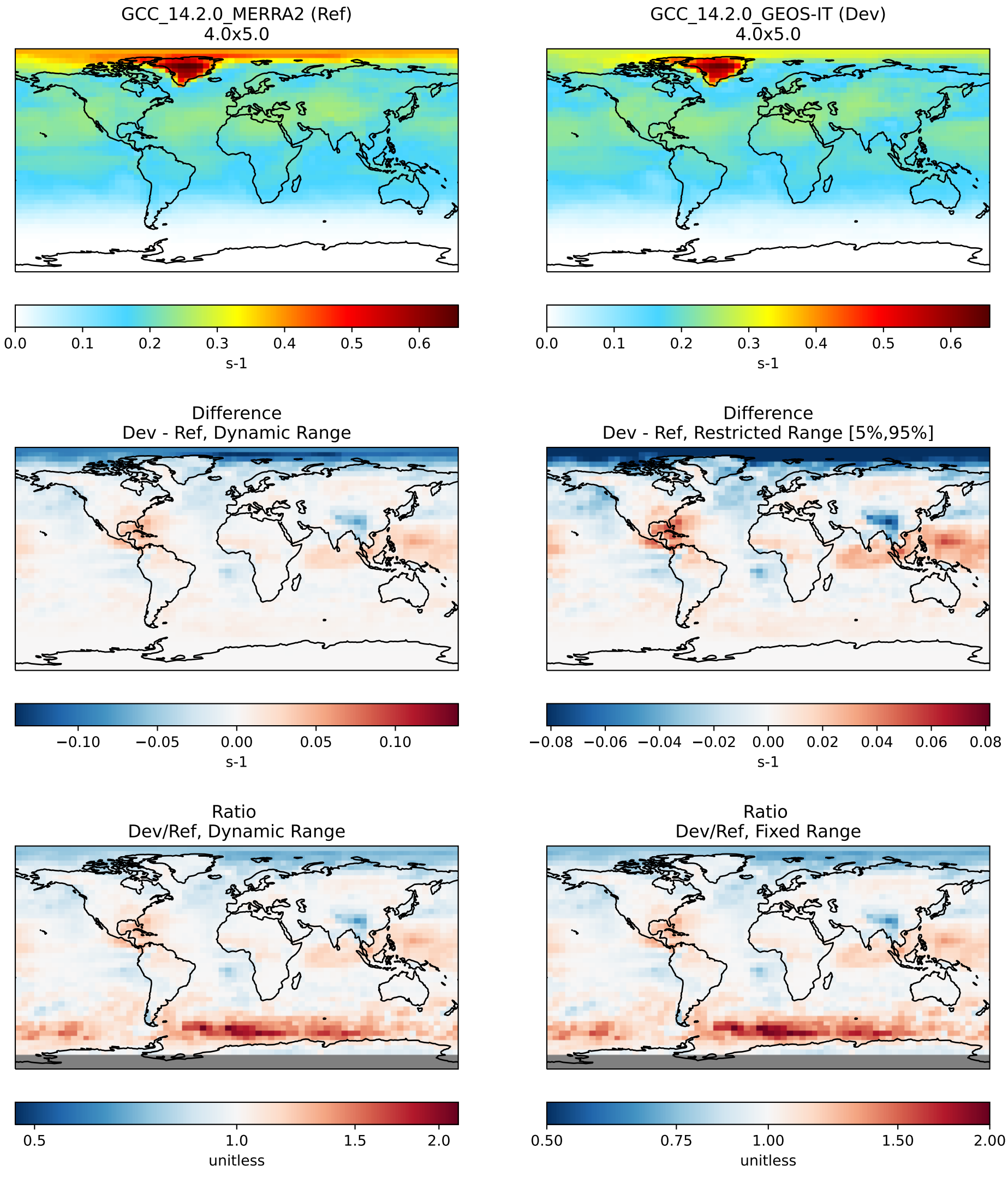
Jval_ClNO3


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

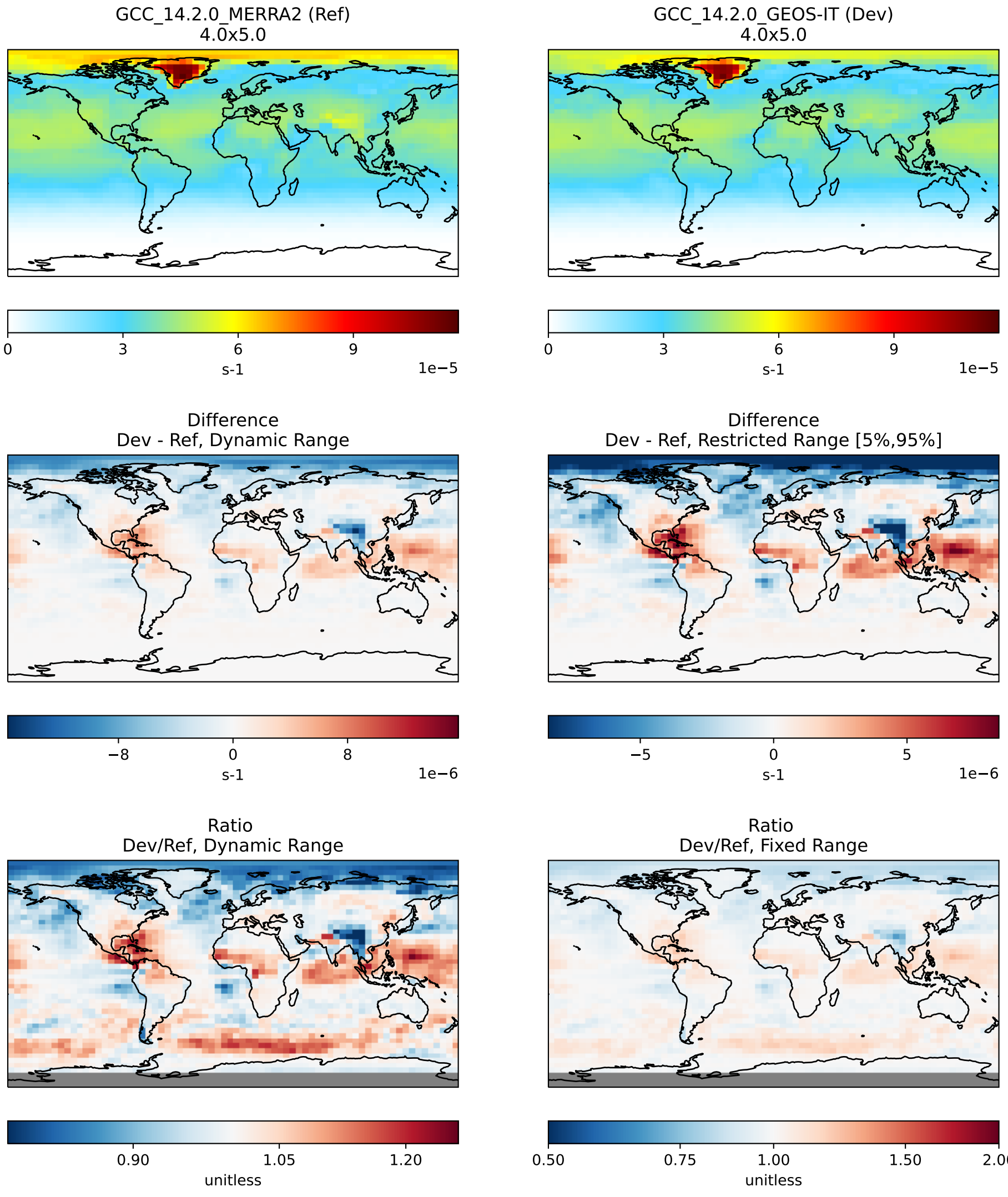
Jval_ClO


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
3
6
9
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
3
6
9
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−1.5
0.0
1.5
s-1
1e−5
Difference
Dev - Ref, Restricted Range [5%,95%]
−3
0
3
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

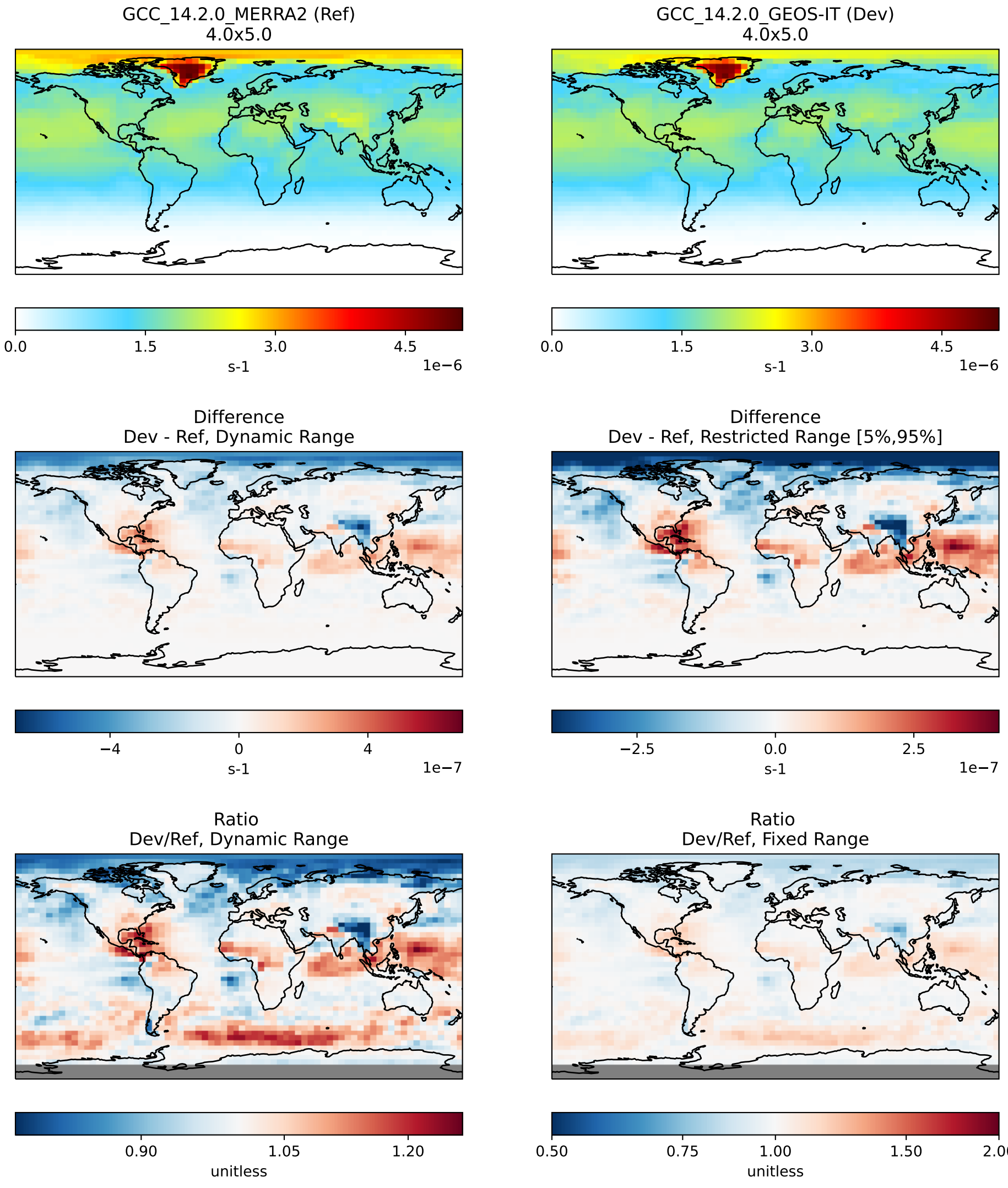
Jval_ClOO


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0 0.1 0.2 0.3 0.4 0.5 0.6
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0 0.1 0.2 0.3 0.4 0.5 0.6
s-1
Difference
Dev - Ref, Dynamic Range
−0.10 −0.05 0.00 0.05 0.10
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.08 −0.06 −0.04 −0.02 0.00 0.02 0.04 0.06 0.08
s-1
Ratio
Dev/Ref, Dynamic Range
0.5 1.0 1.5 2.0
unitless
Ratio
Dev/Ref, Fixed Range
0.50 0.75 1.00 1.50 2.00
unitless

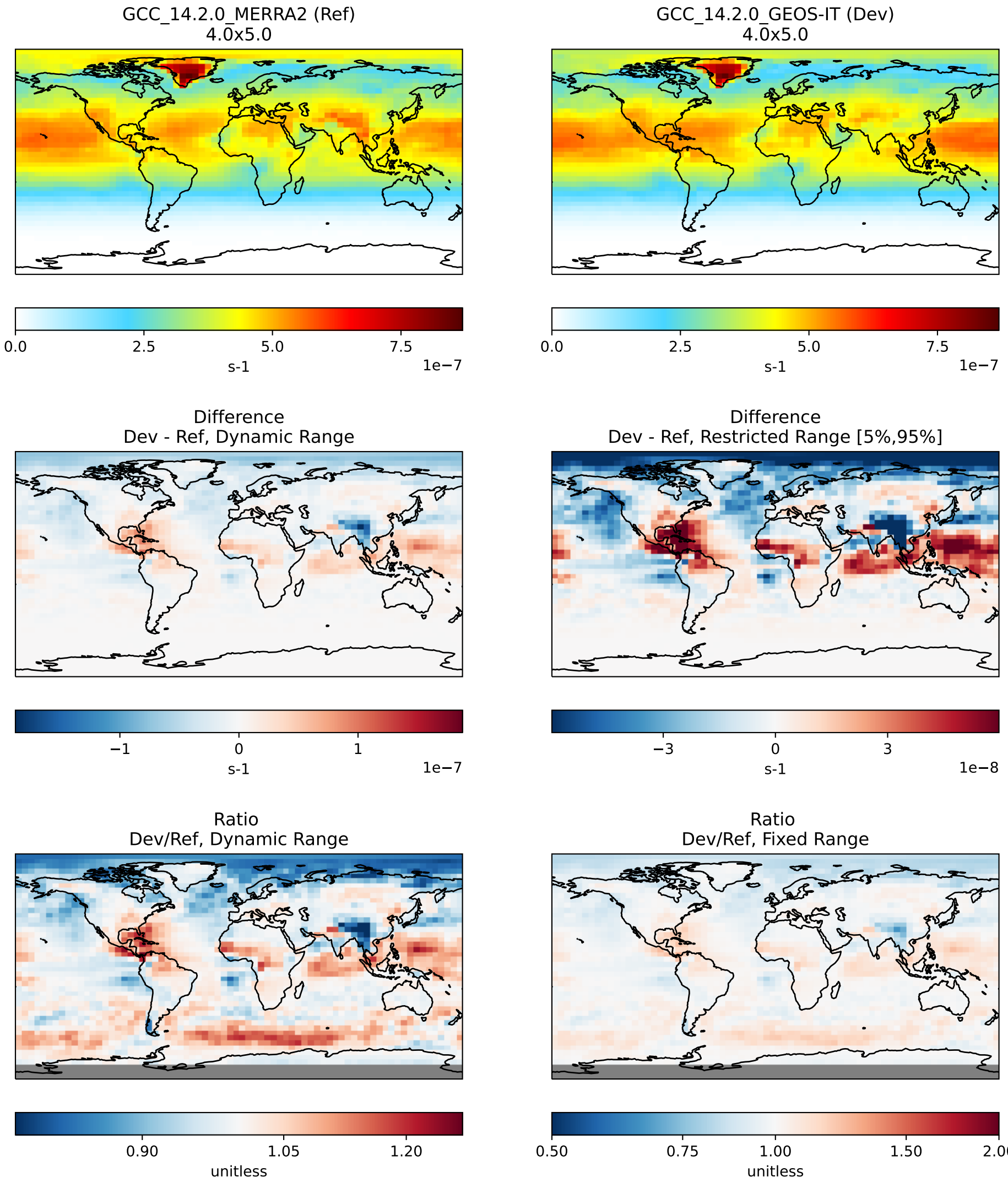
Jval_ETHLN


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
3
6
9
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
3
6
9
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−8
0
8
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−5
0
5
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

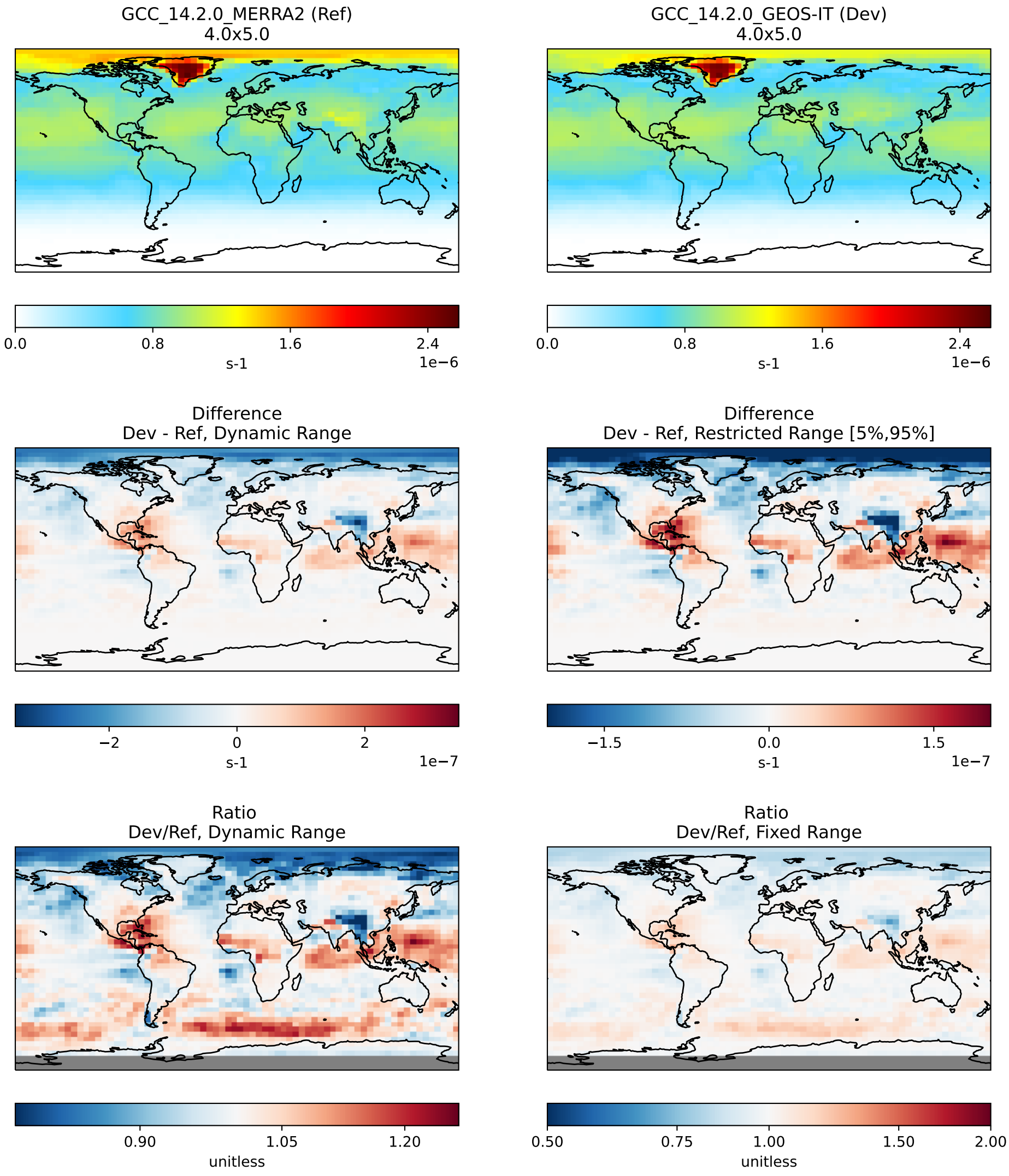
Jval_ETHP


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

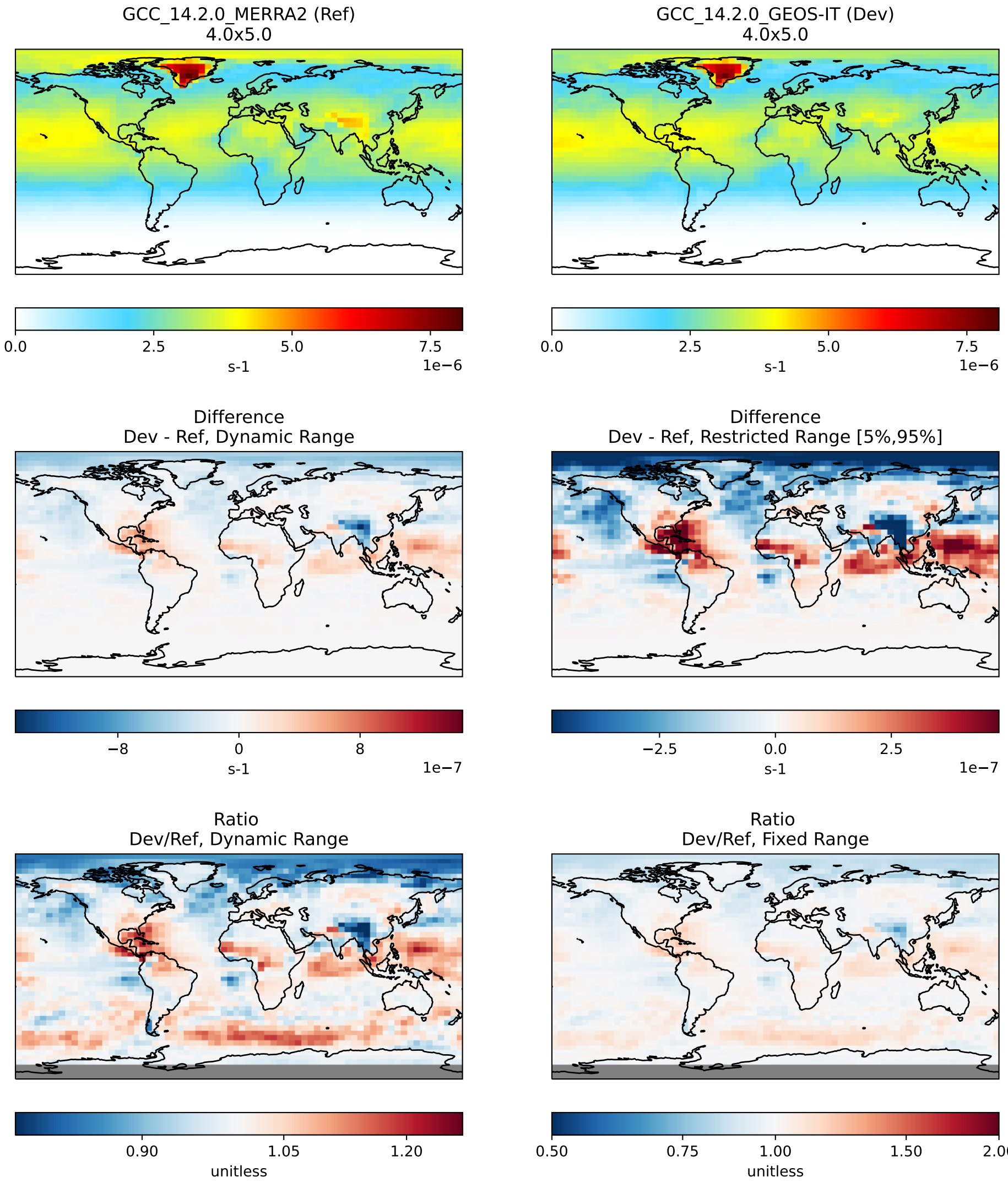
Jval_ETNO3


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
2.5
5.0
7.5
s-1
1e−7
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
2.5
5.0
7.5
s-1
1e−7
Difference
Dev - Ref, Dynamic Range
−1
0
1
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−3
0
3
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

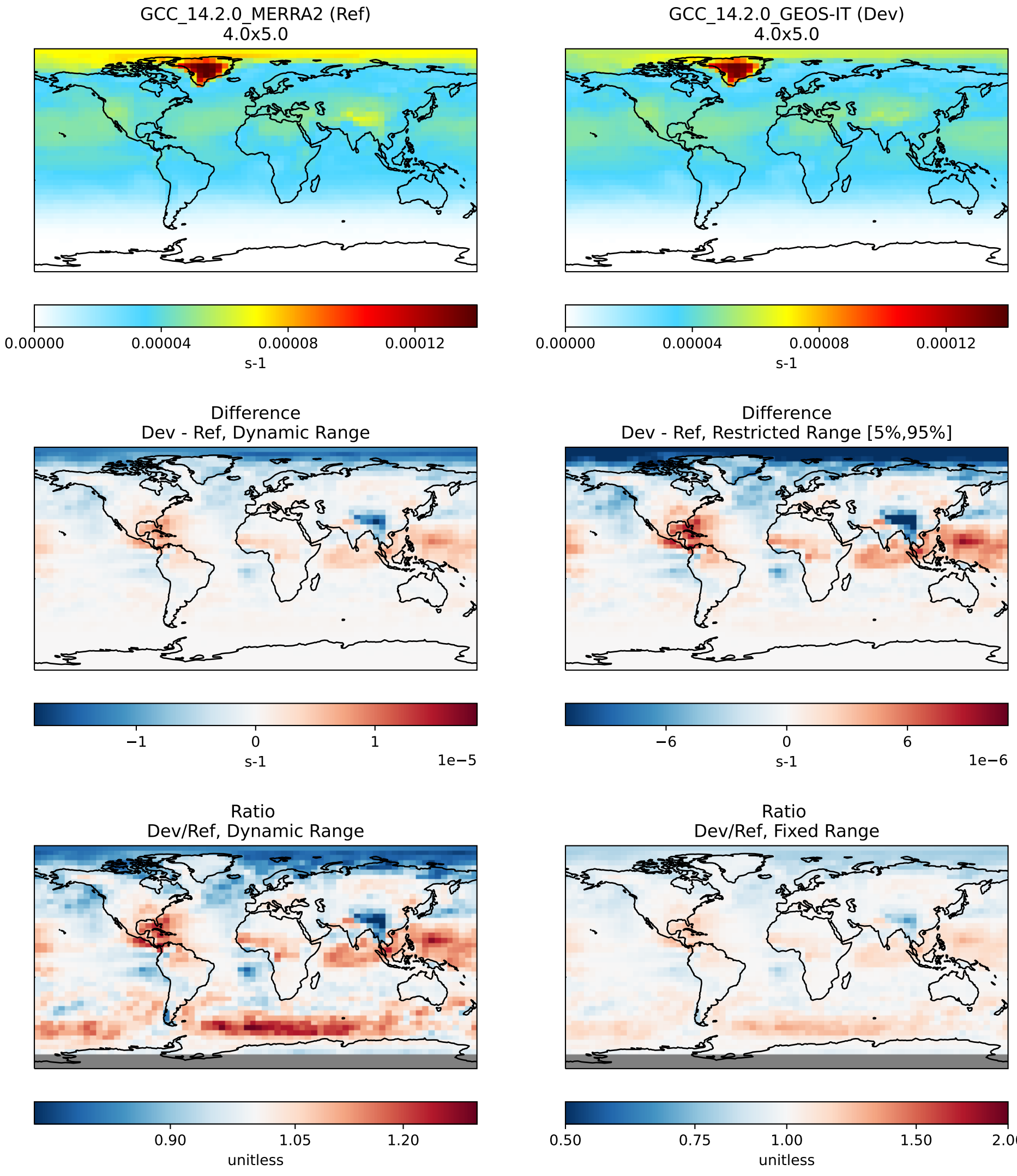
Jval_ETP


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.8
1.6
2.4
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.8
1.6
2.4
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−2
0
2
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

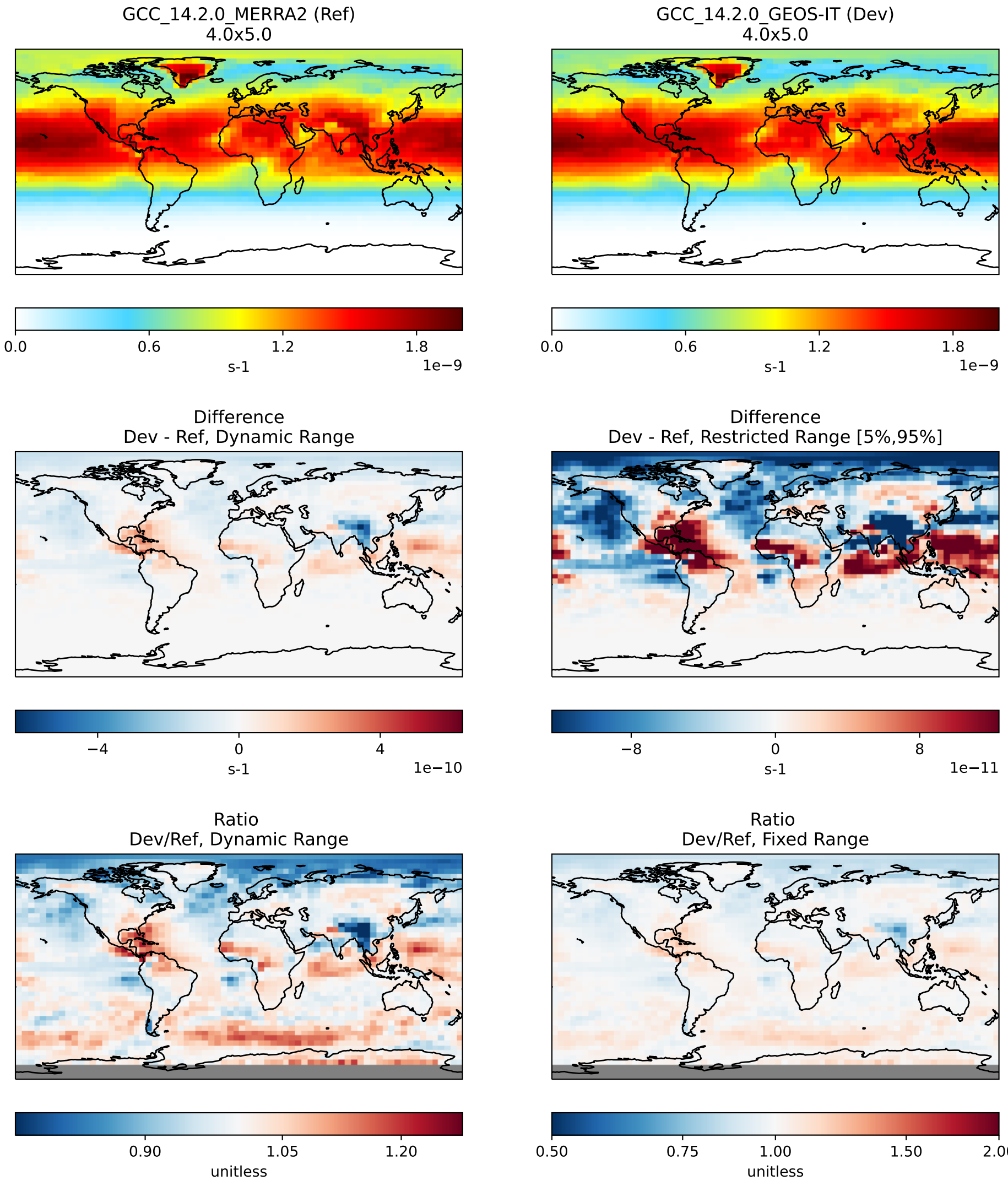
Jval_GLYC


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
2.5
5.0
7.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
2.5
5.0
7.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−8
0
8
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

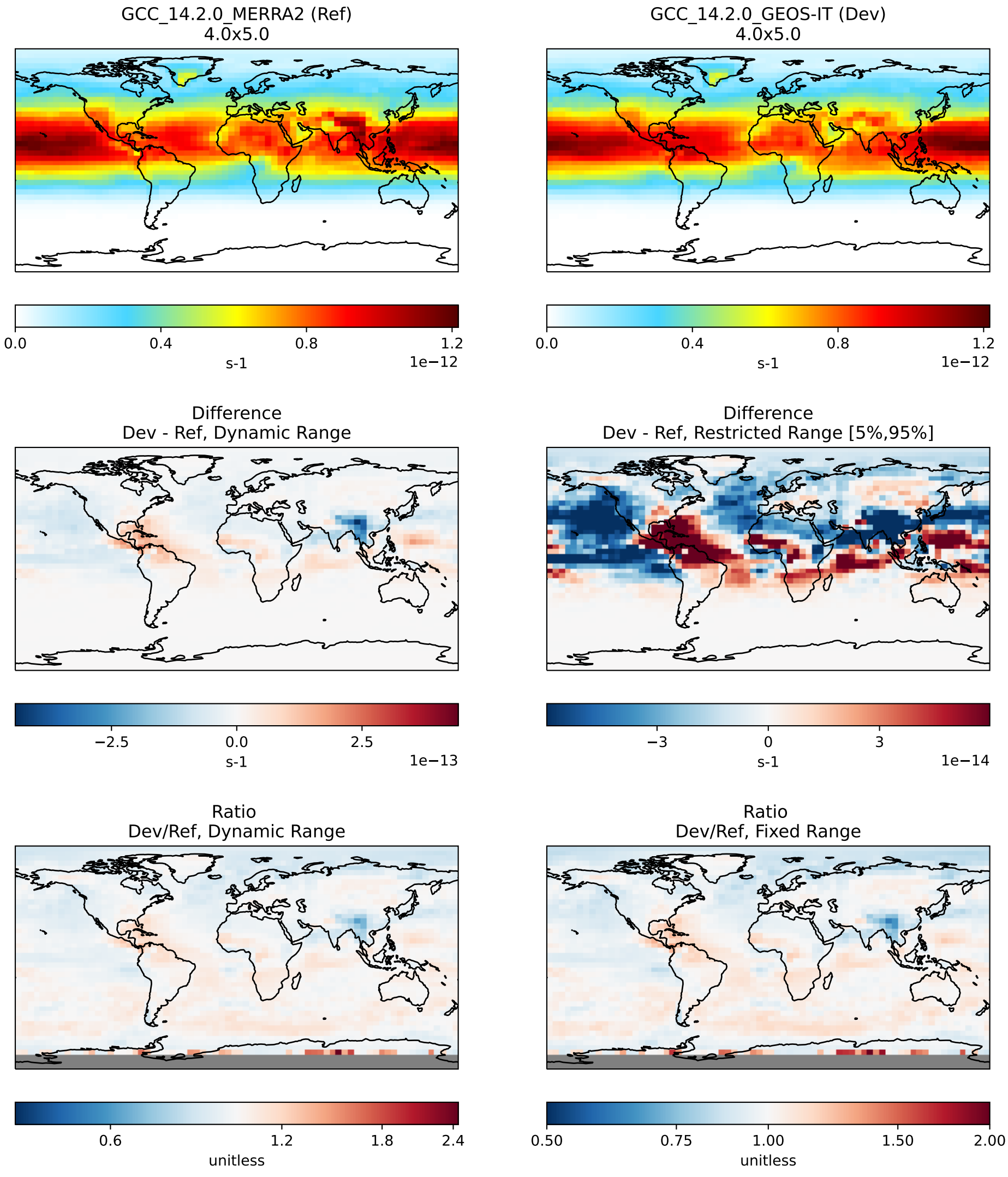
Jval_GLYX


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00000
0.00004
0.00008
0.00012
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00000
0.00004
0.00008
0.00012
s-1
Difference
Dev - Ref, Dynamic Range
−1
0
1
s-1
1e−5
Difference
Dev - Ref, Restricted Range [5%,95%]
−6
0
6
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

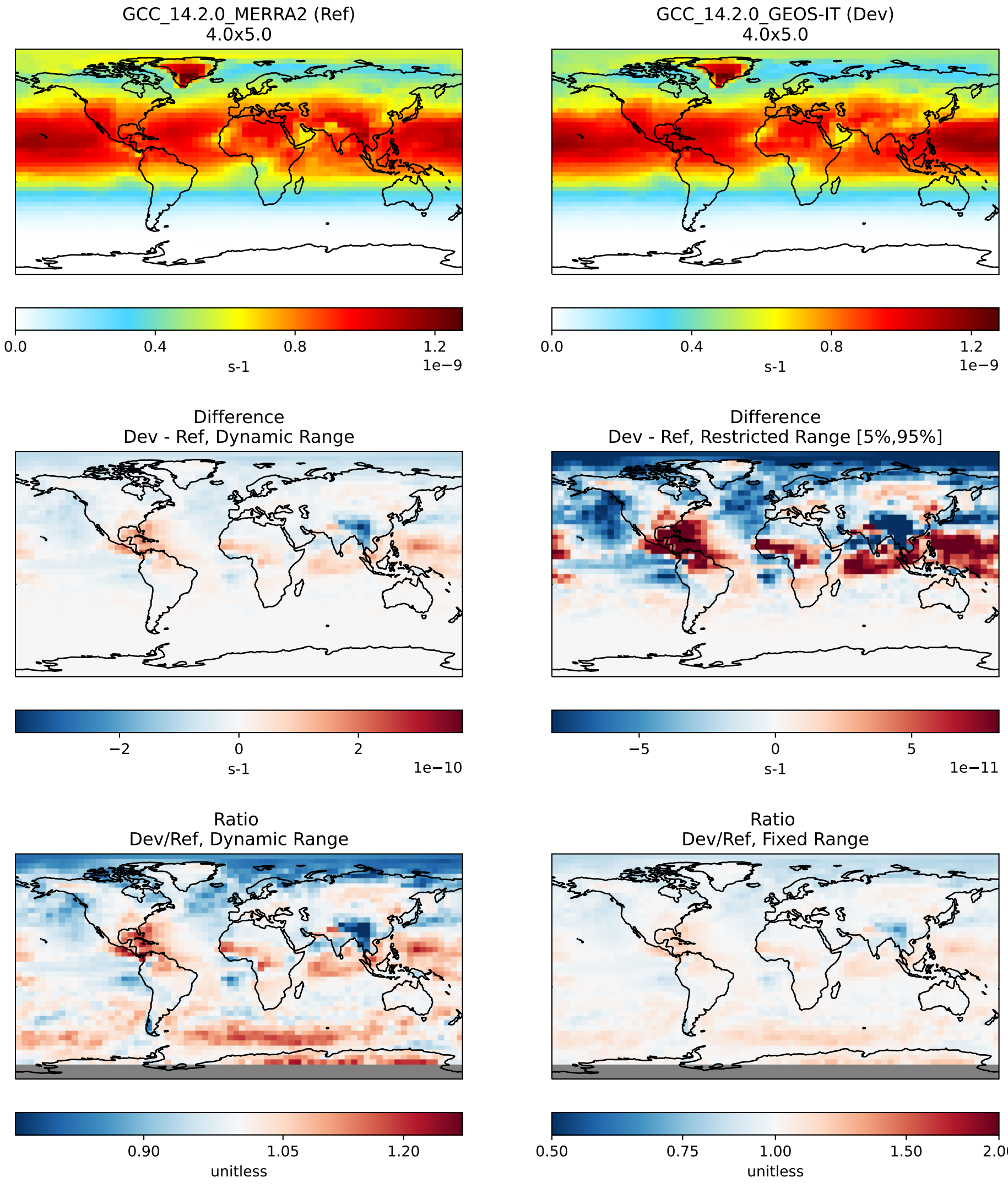
Jval_H1211


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.6
1.2
1.8
s-1
1e−9
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.6
1.2
1.8
s-1
1e−9
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−10
Difference
Dev - Ref, Restricted Range [5%,95%]
−8
0
8
s-1
1e−11
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

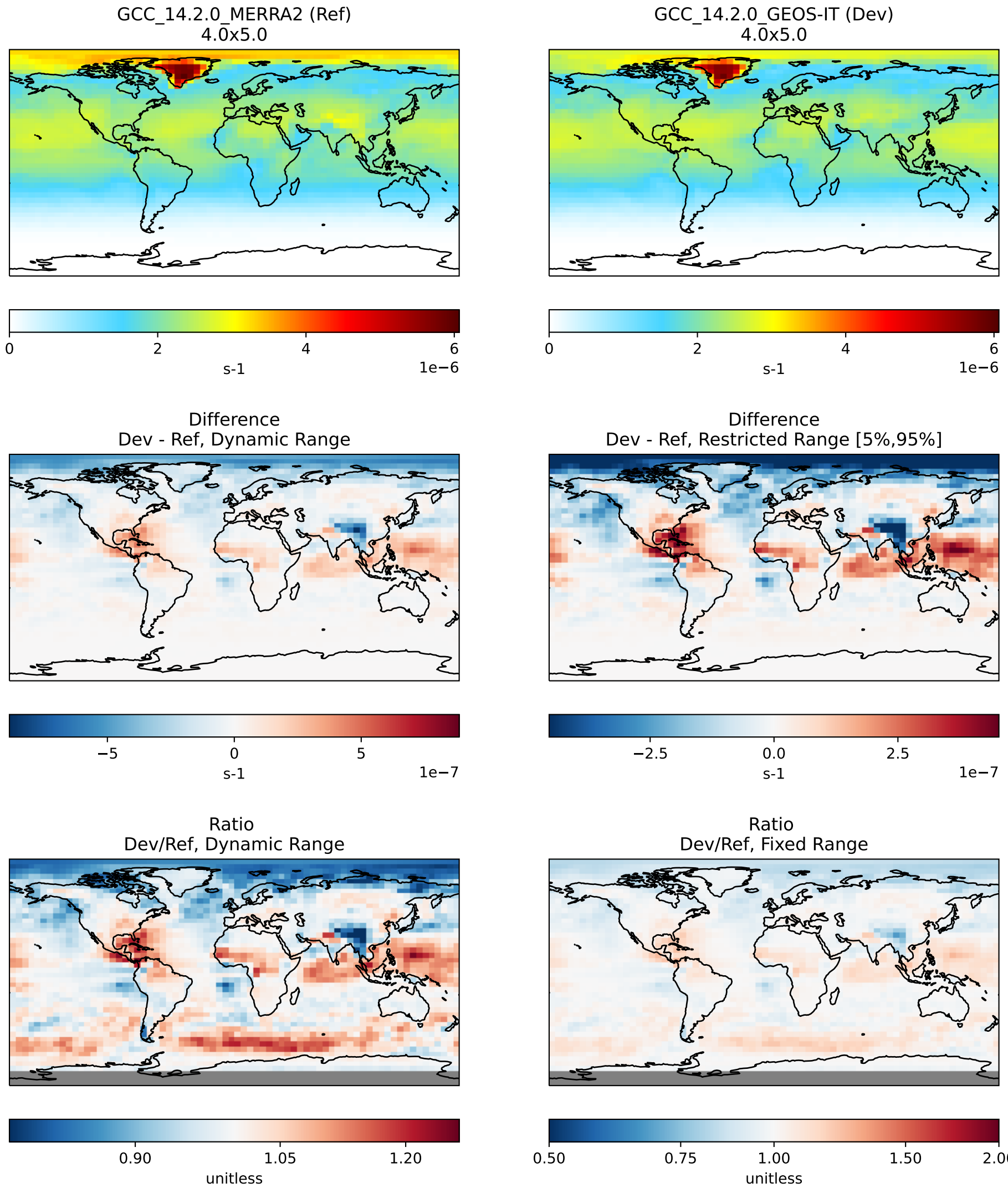
Jval_H1301


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−12
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−12
Difference
Dev - Ref, Dynamic Range
−2.5
0.0
2.5
s-1
1e−13
Difference
Dev - Ref, Restricted Range [5%,95%]
−3
0
3
s-1
1e−14
Ratio
Dev/Ref, Dynamic Range
0.6
1.2
1.8
2.4
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

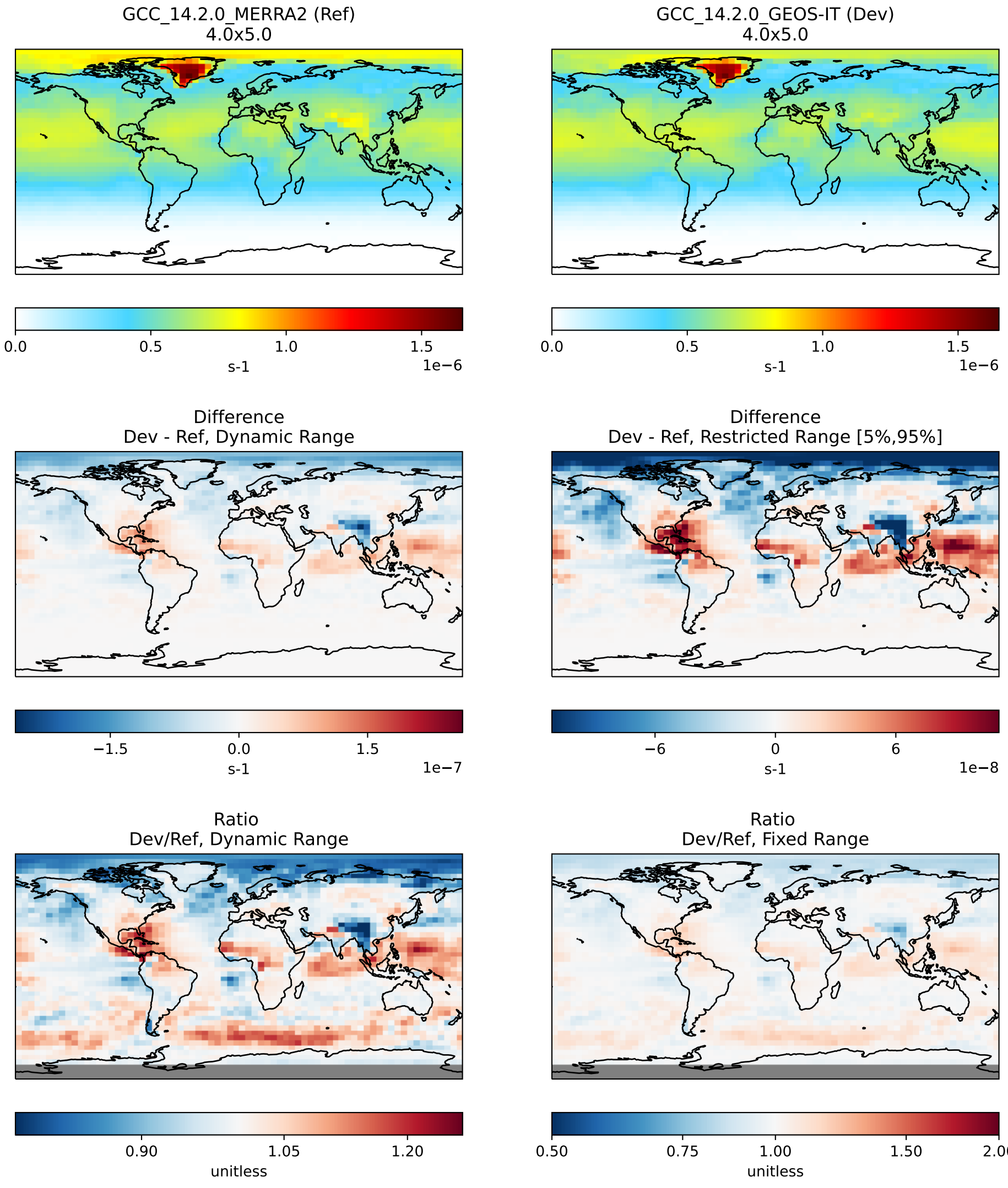
Jval_H2402


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−9
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−9
Difference
Dev - Ref, Dynamic Range
−2
0
2
s-1
1e−10
Difference
Dev - Ref, Restricted Range [5%,95%]
−5
0
5
s-1
1e−11
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

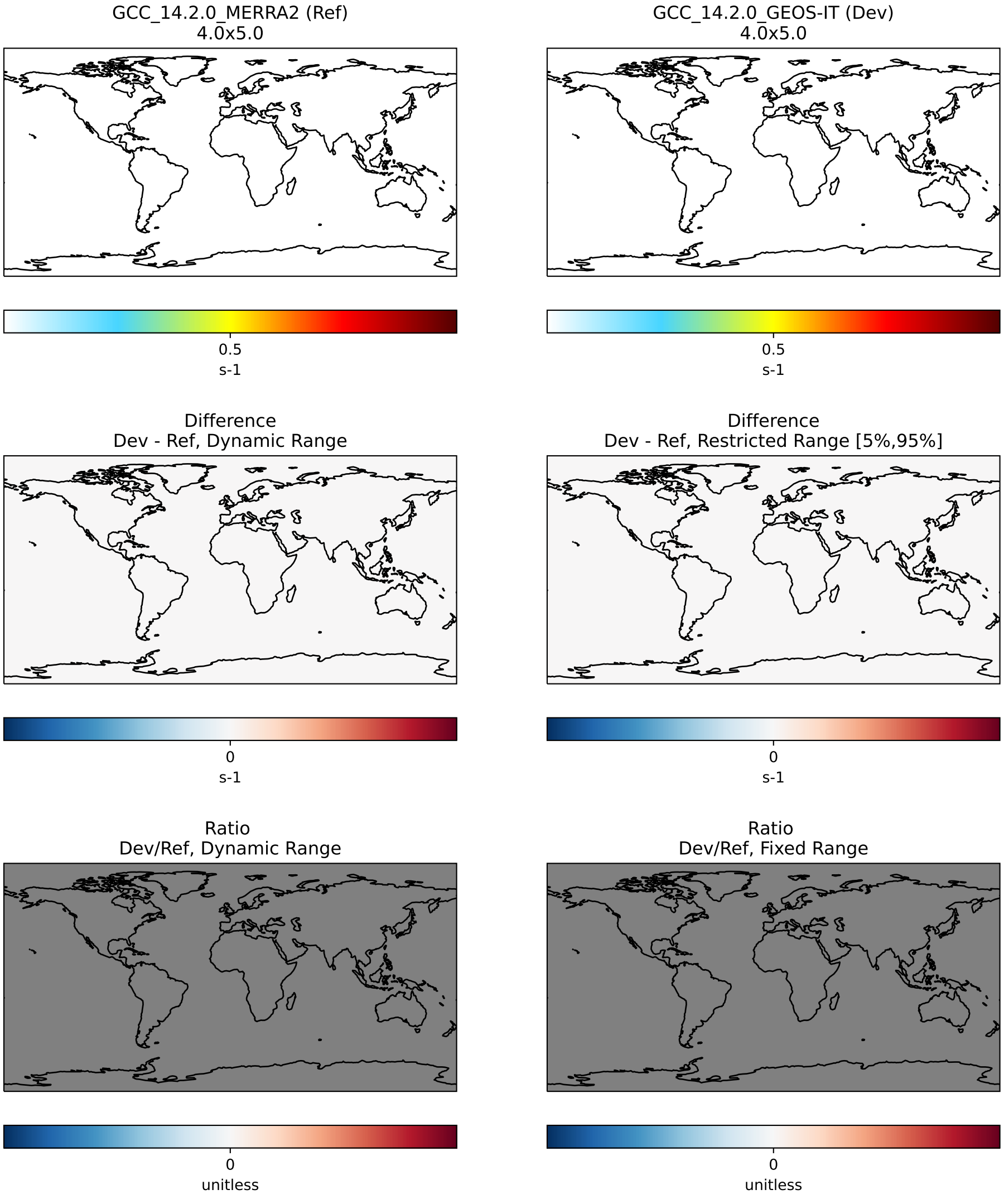
Jval_H2O2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
2
4
6
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
2
4
6
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−5
0
5
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

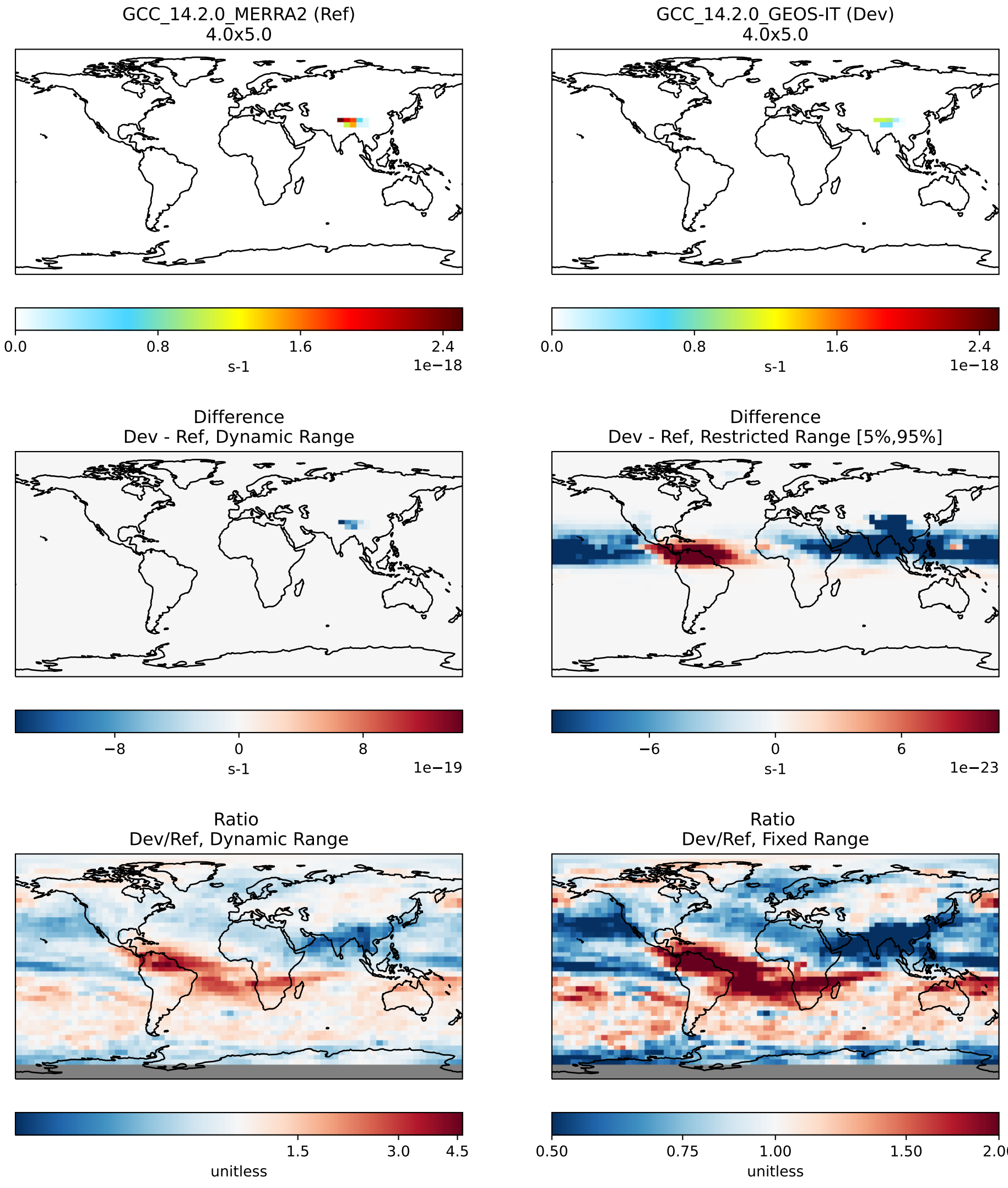
Jval_HAC


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−1.5
0.0
1.5
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−6
0
6
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

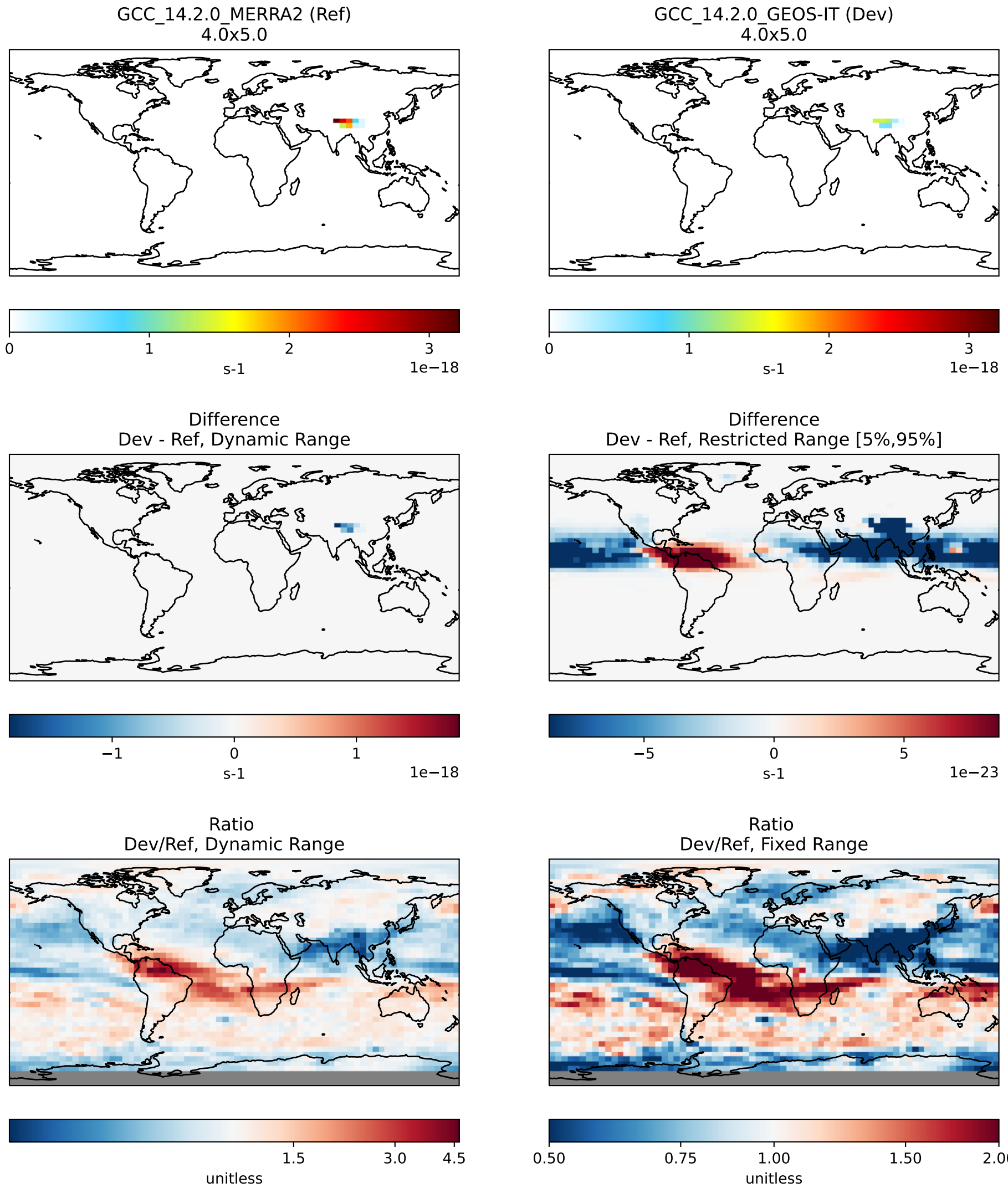
Jval_HC5A


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.5
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.5
s-1
Difference
Dev - Ref, Dynamic Range
0
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
0
s-1
Ratio
Dev/Ref, Dynamic Range
0
unitless
Ratio
Dev/Ref, Fixed Range
0
unitless

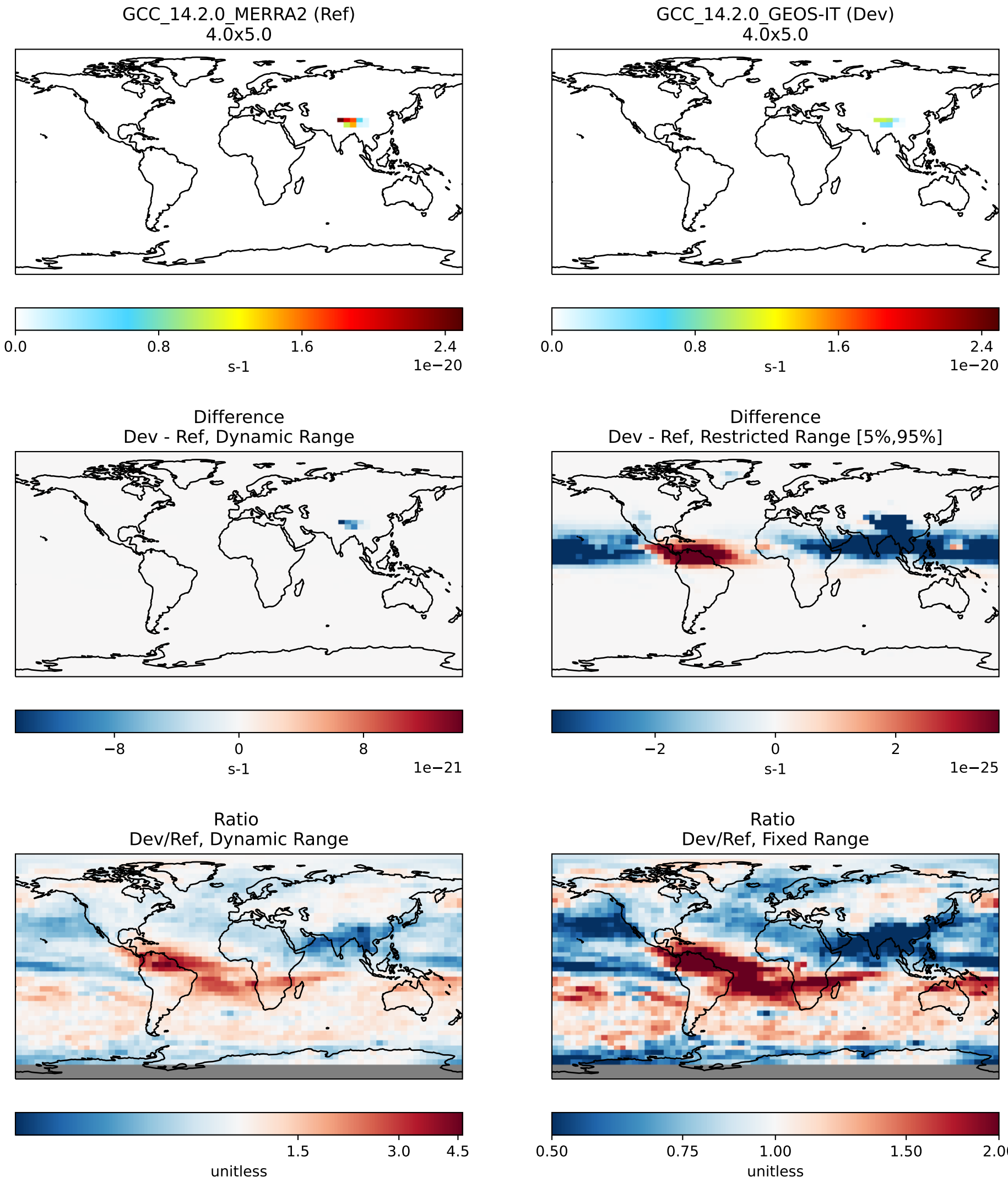
Jval_HCFC123



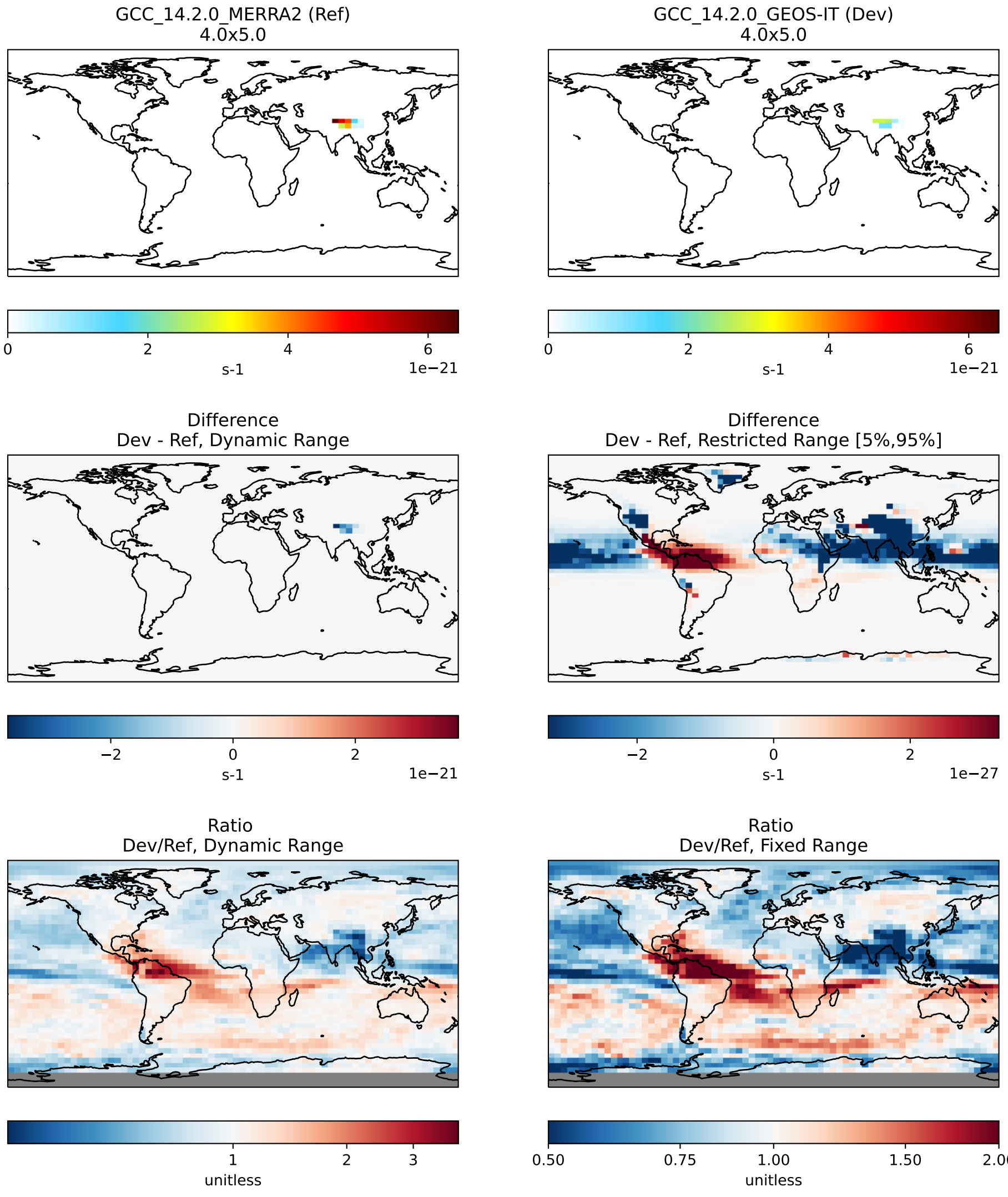
Jval_HCFC141b



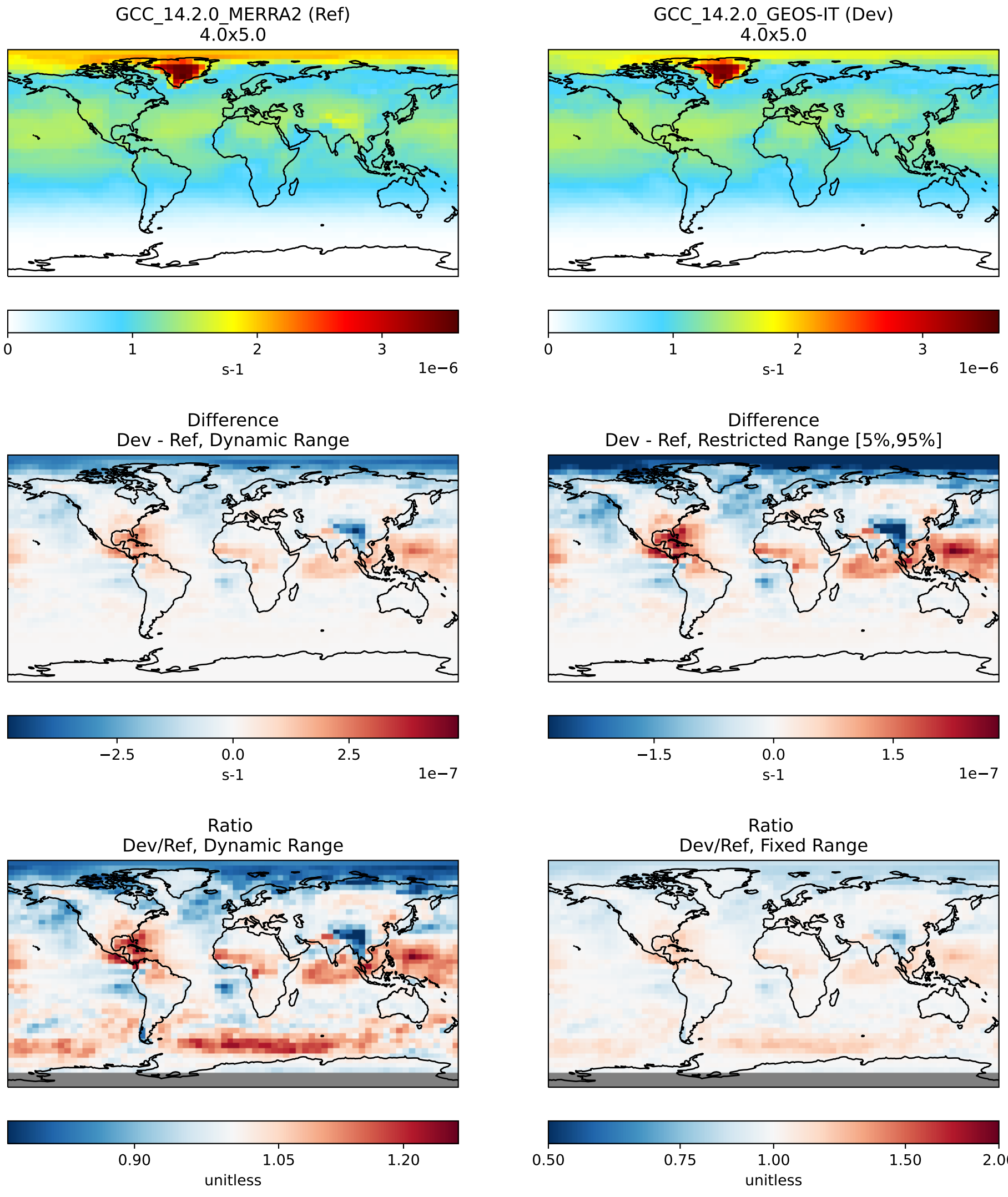
Jval_HCFC142b



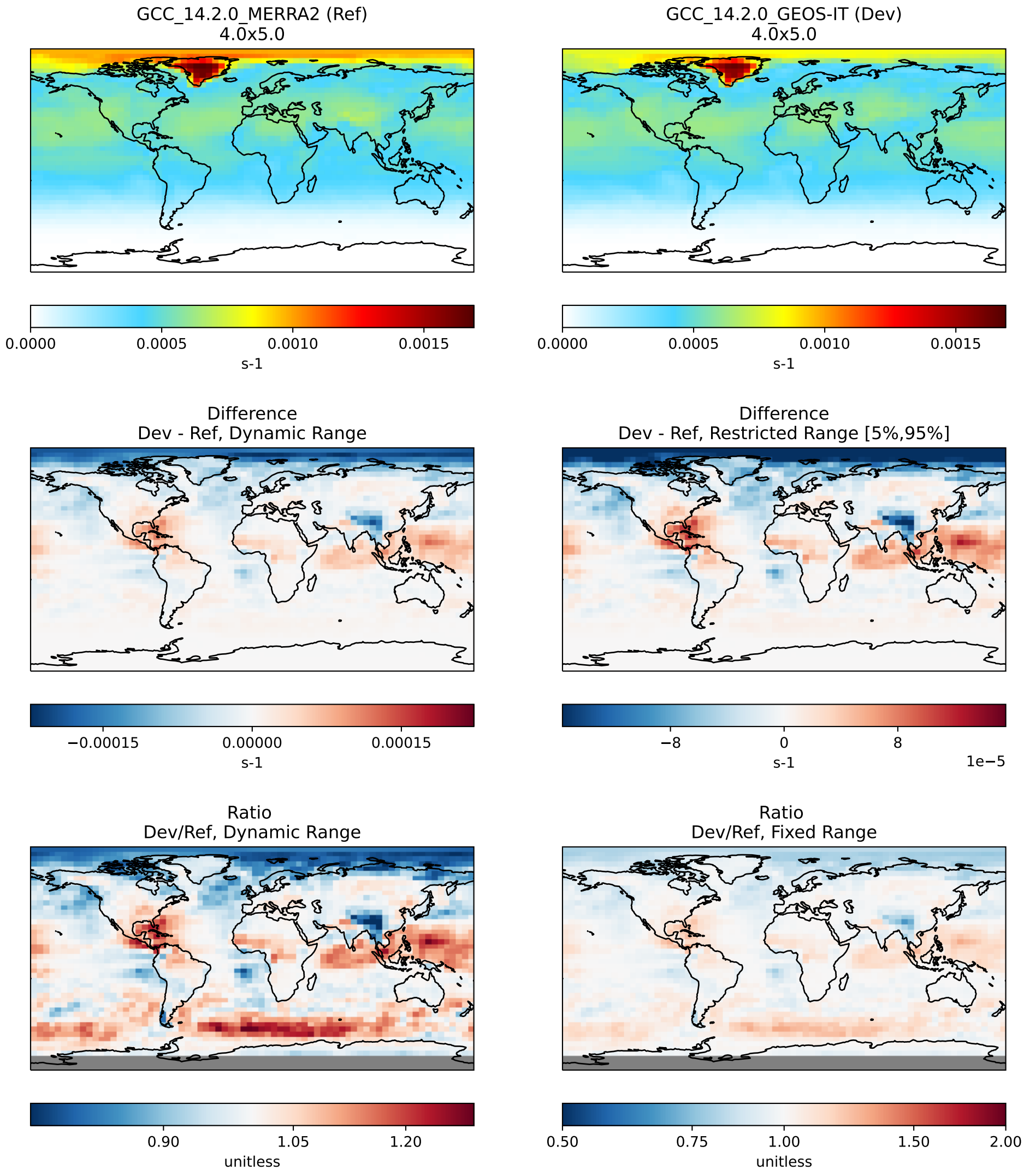
Jval_HCFC22


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
2
4
6
s-1
1e−21
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
2
4
6
s-1
1e−21
Difference
Dev - Ref, Dynamic Range
−2
0
2
s-1
1e−21
Difference
Dev - Ref, Restricted Range [5%,95%]
−2
0
2
s-1
1e−27
Ratio
Dev/Ref, Dynamic Range
1
2
3
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

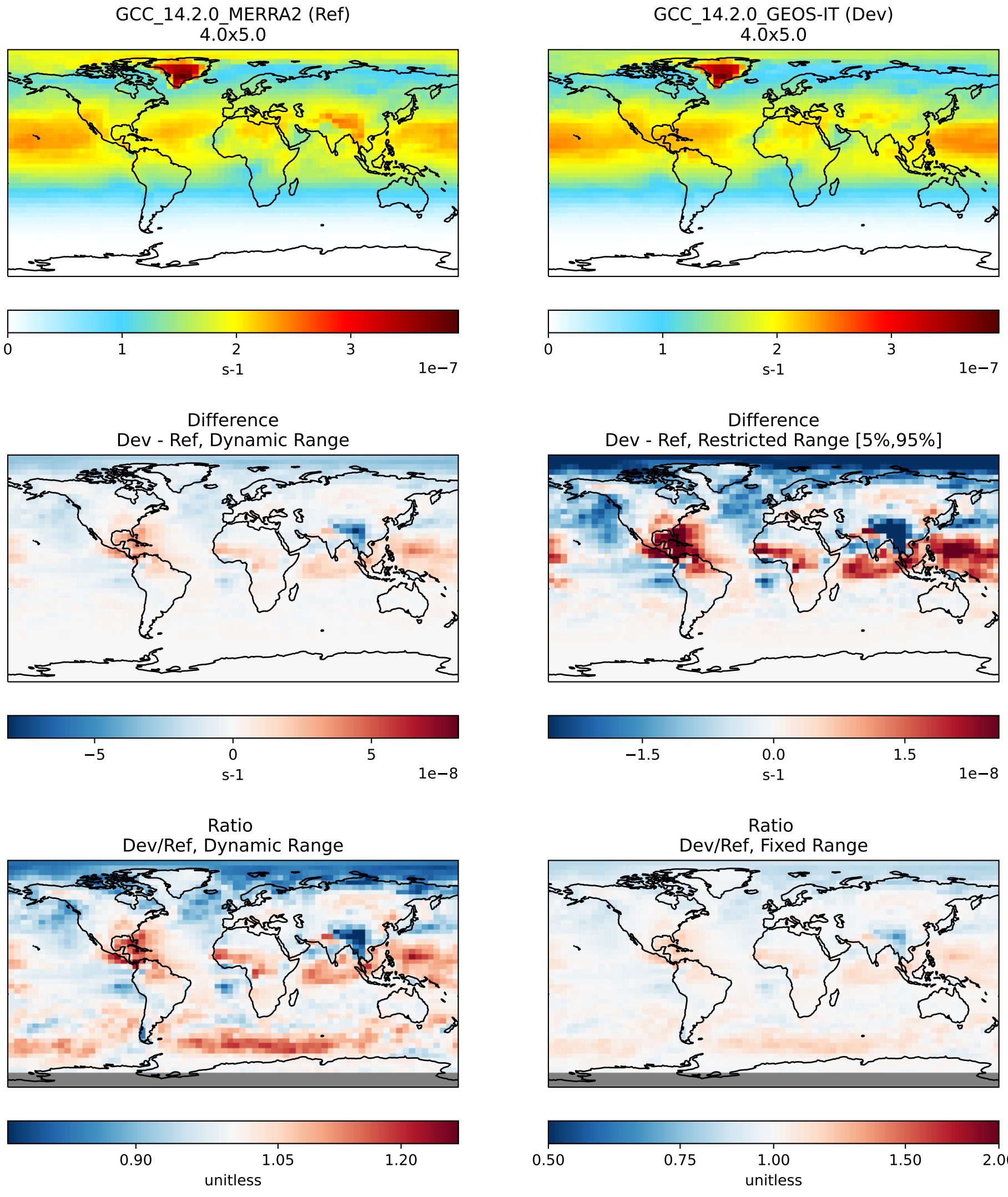
Jval_HMHP


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
1
2
3
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
1
2
3
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−2.5
0.0
2.5
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

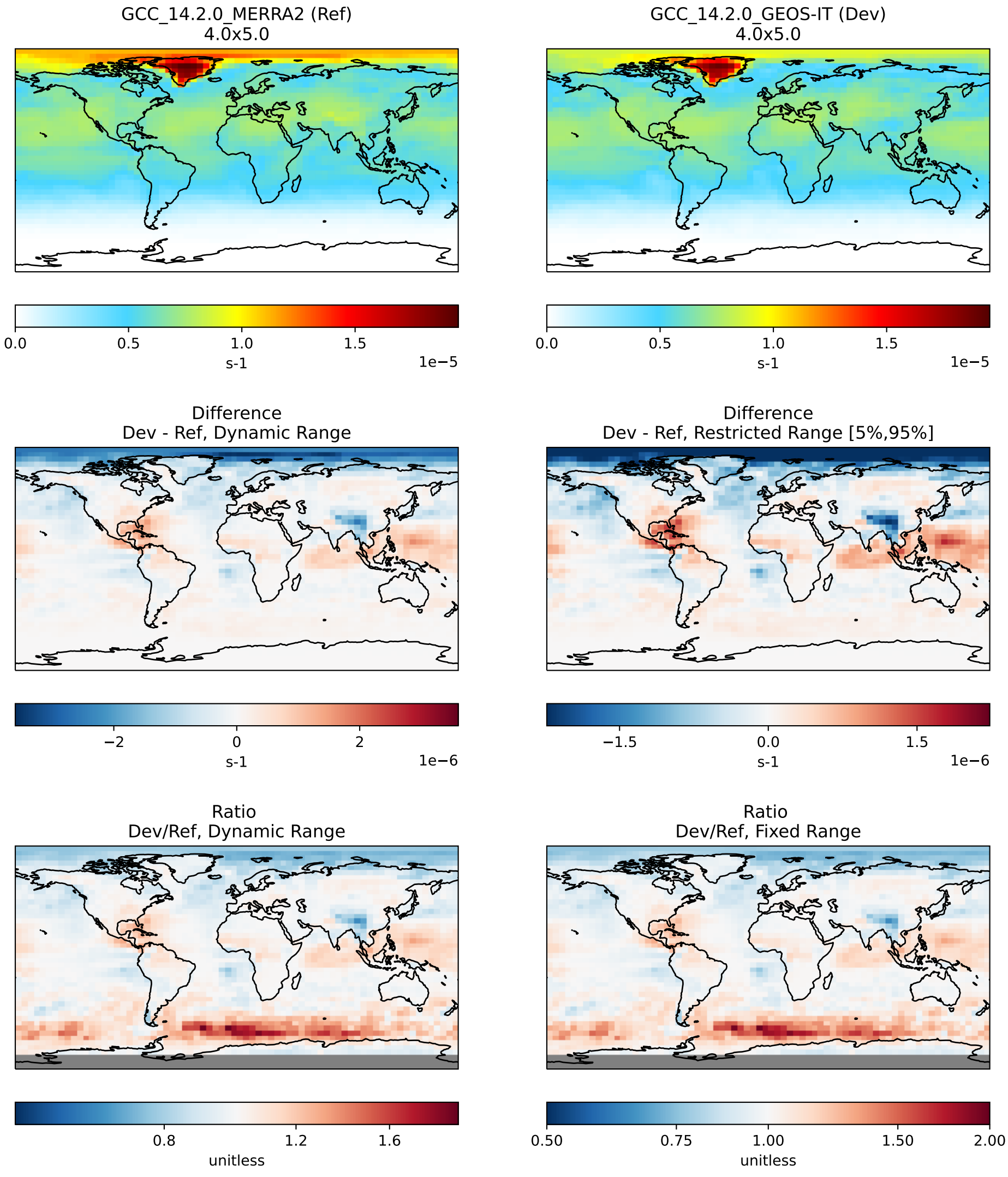
Jval_HNO2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0000
0.0005
0.0010
0.0015
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0000
0.0005
0.0010
0.0015
s-1
Difference
Dev - Ref, Dynamic Range
−0.00015
0.00000
0.00015
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−8
0
8
s-1
1e−5
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

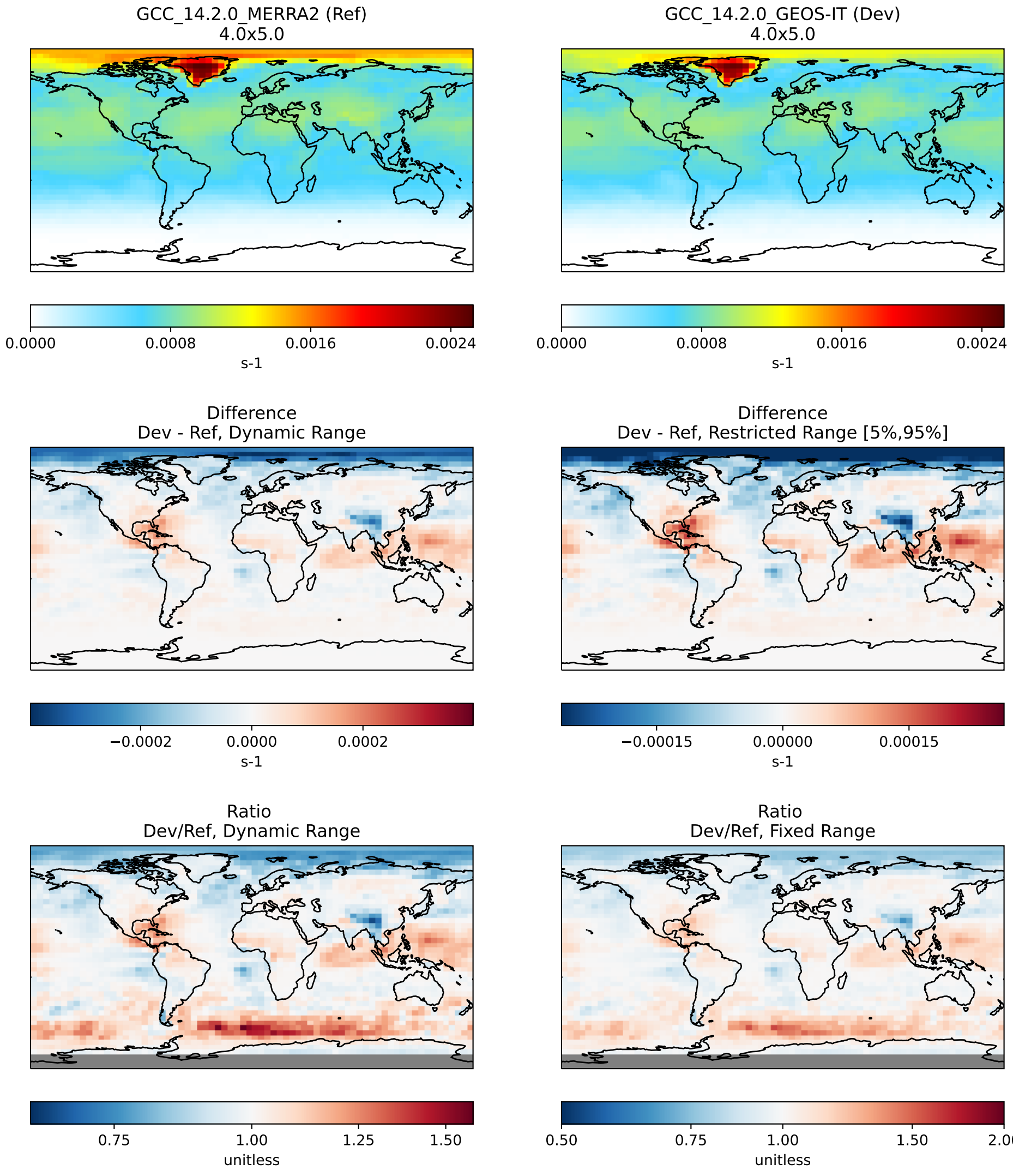
Jval_HNO3


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
1
2
3
s-1
1e−7
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
1
2
3
s-1
1e−7
Difference
Dev - Ref, Dynamic Range
−5
0
5
s-1
1e−8
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

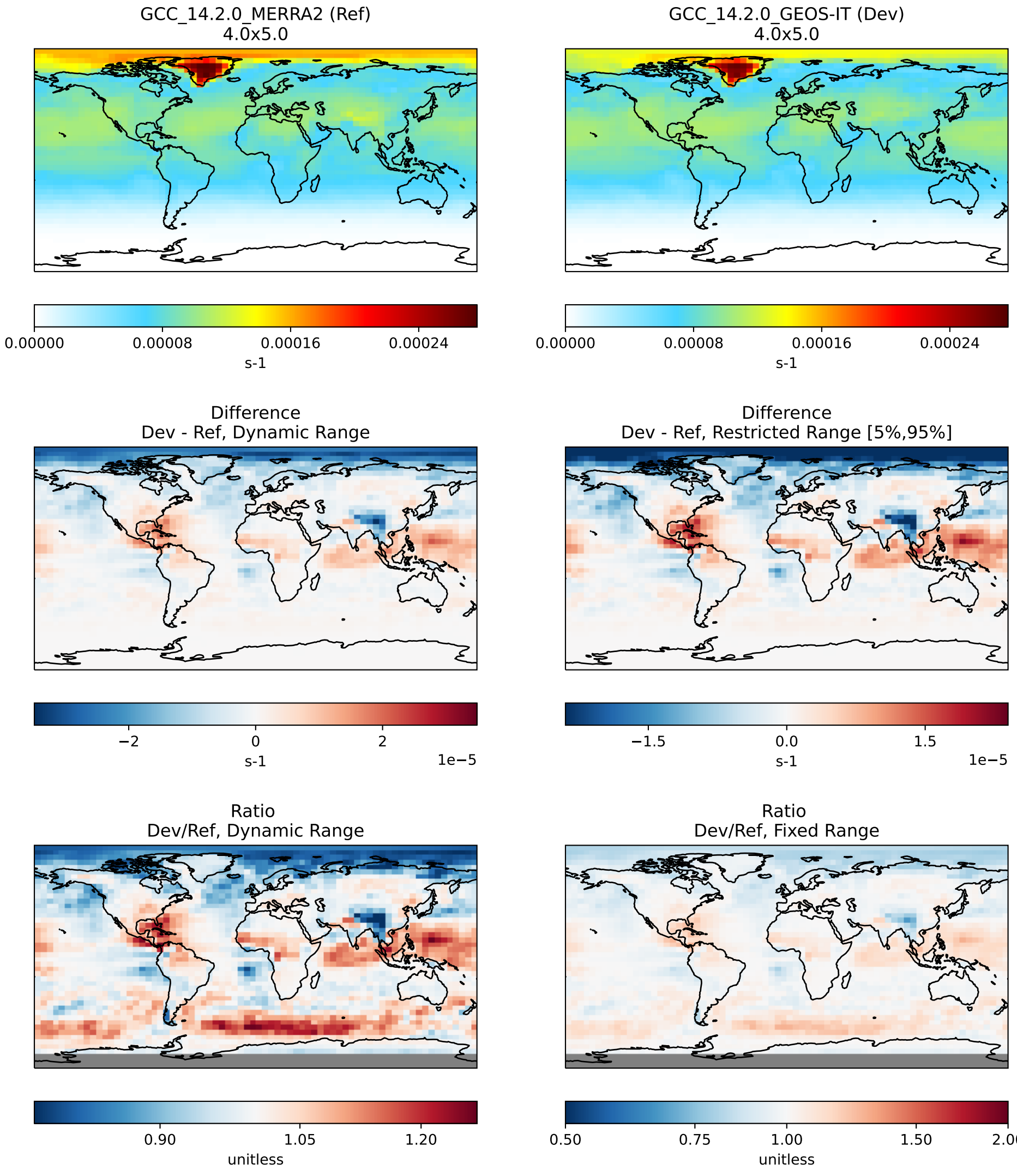
Jval_HNO4


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−2
0
2
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.8
1.2
1.6
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

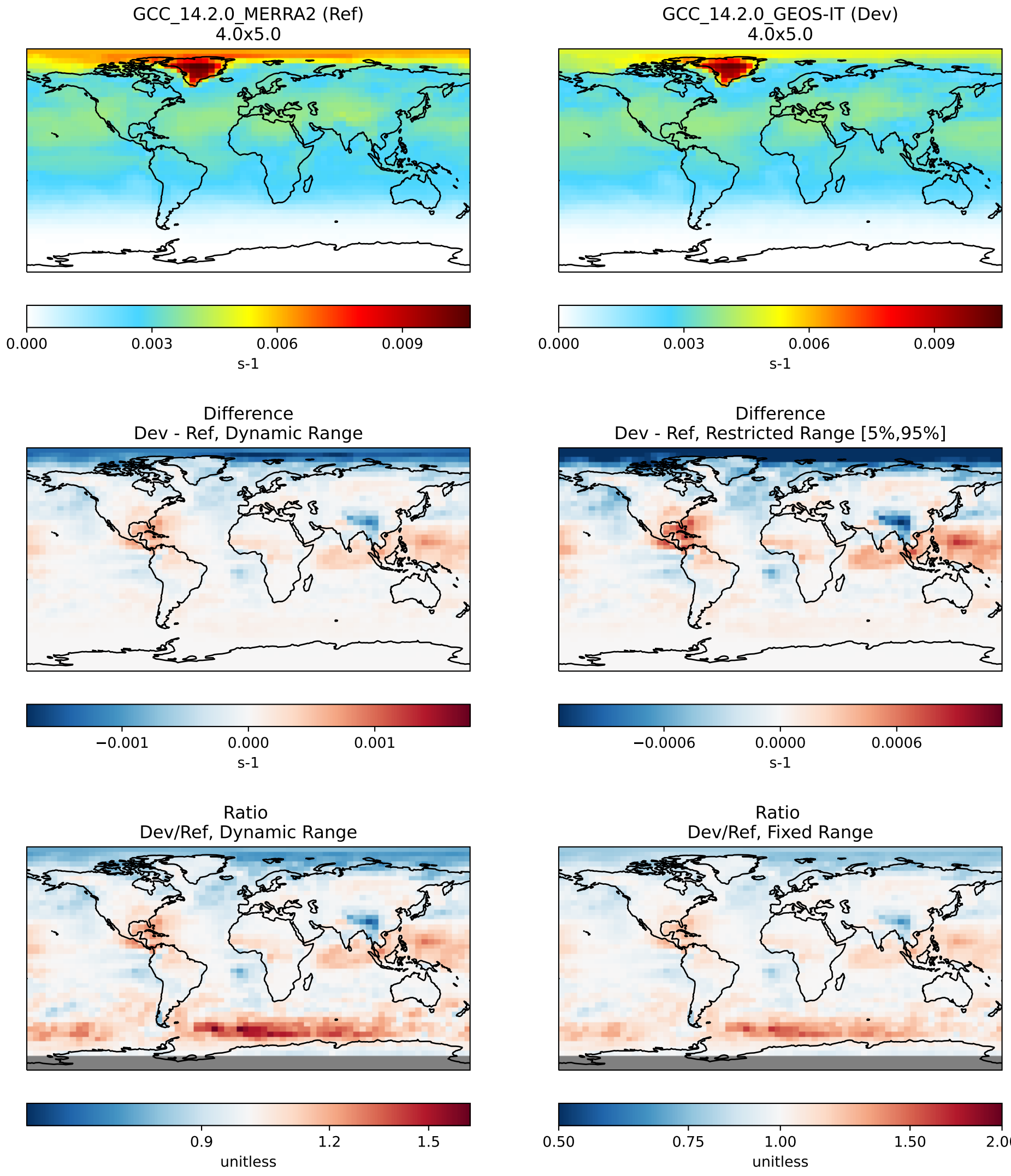
Jval_HOBr


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0000
0.0008
0.0016
0.0024
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0000
0.0008
0.0016
0.0024
s-1
Difference
Dev - Ref, Dynamic Range
−0.0002
0.0000
0.0002
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.00015
0.00000
0.00015
s-1
Ratio
Dev/Ref, Dynamic Range
0.75
1.00
1.25
1.50
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

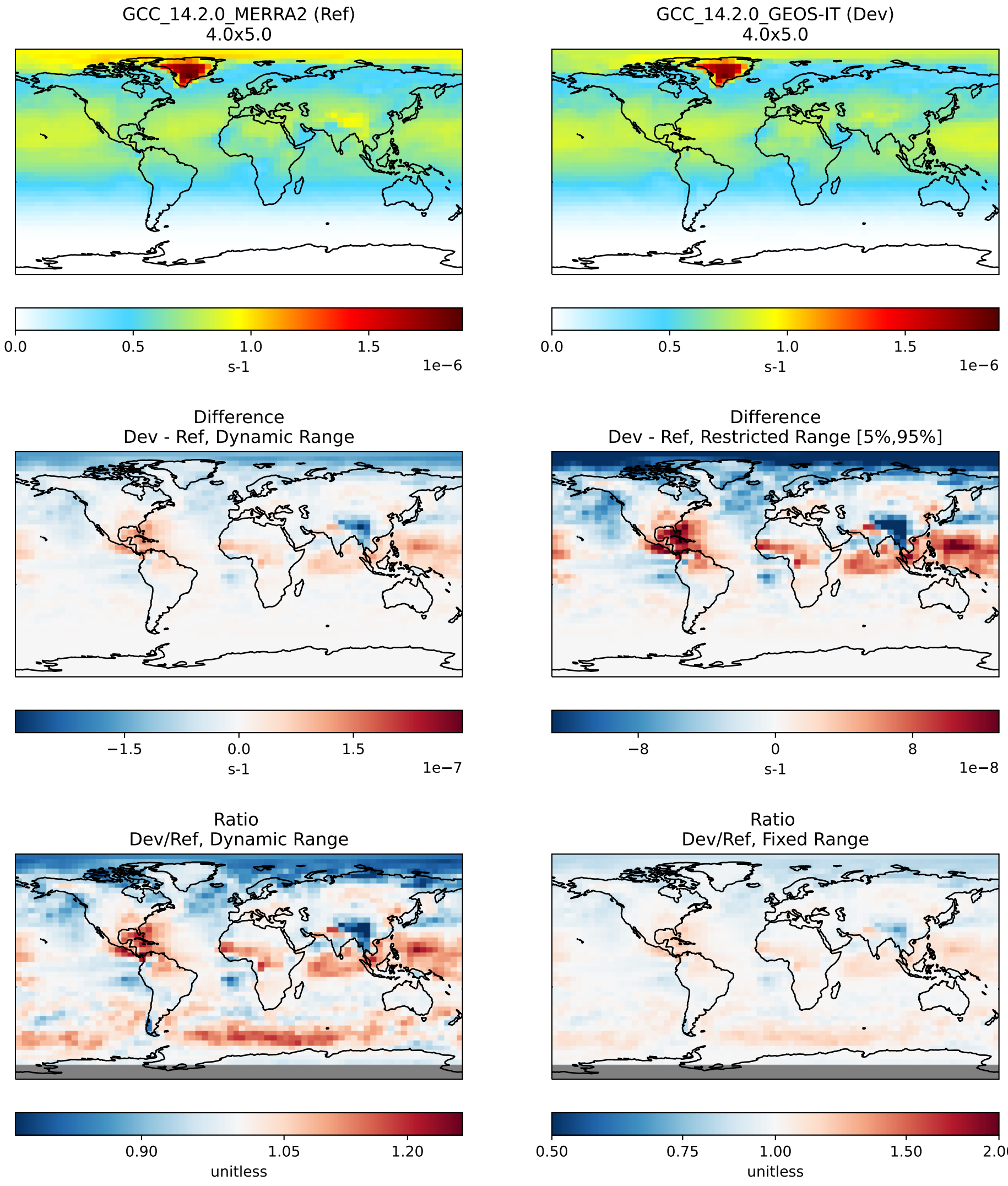
Jval_HOCl


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00000
0.00008
0.00016
0.00024
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00000
0.00008
0.00016
0.00024
s-1
Difference
Dev - Ref, Dynamic Range
−2
0
2
s-1
1e−5
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−5
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

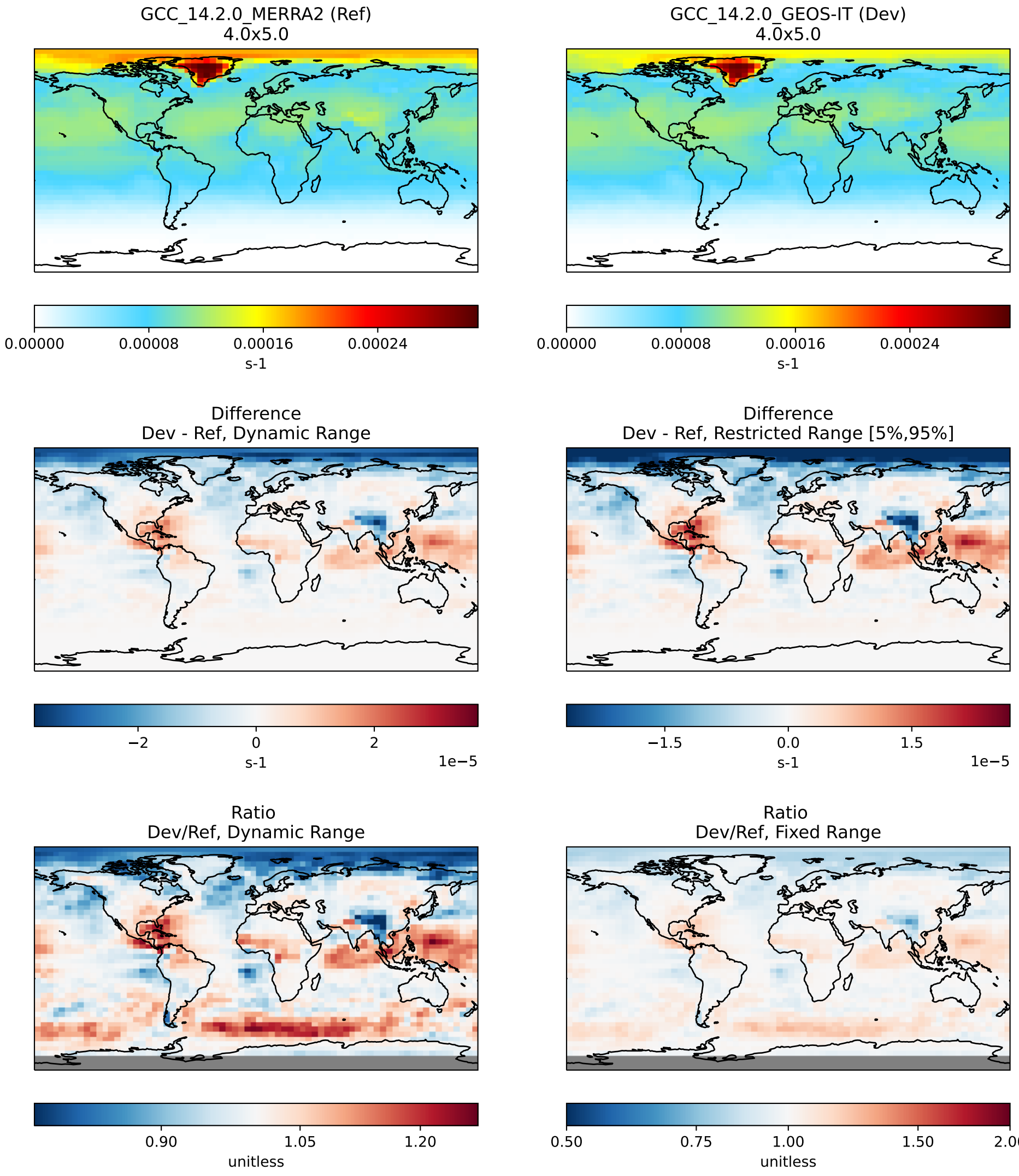
Jval_HOI


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.000
0.003
0.006
0.009
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.000
0.003
0.006
0.009
s-1
Difference
Dev - Ref, Dynamic Range
−0.001
0.000
0.001
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.0006
0.0000
0.0006
s-1
Ratio
Dev/Ref, Dynamic Range
0.9
1.2
1.5
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

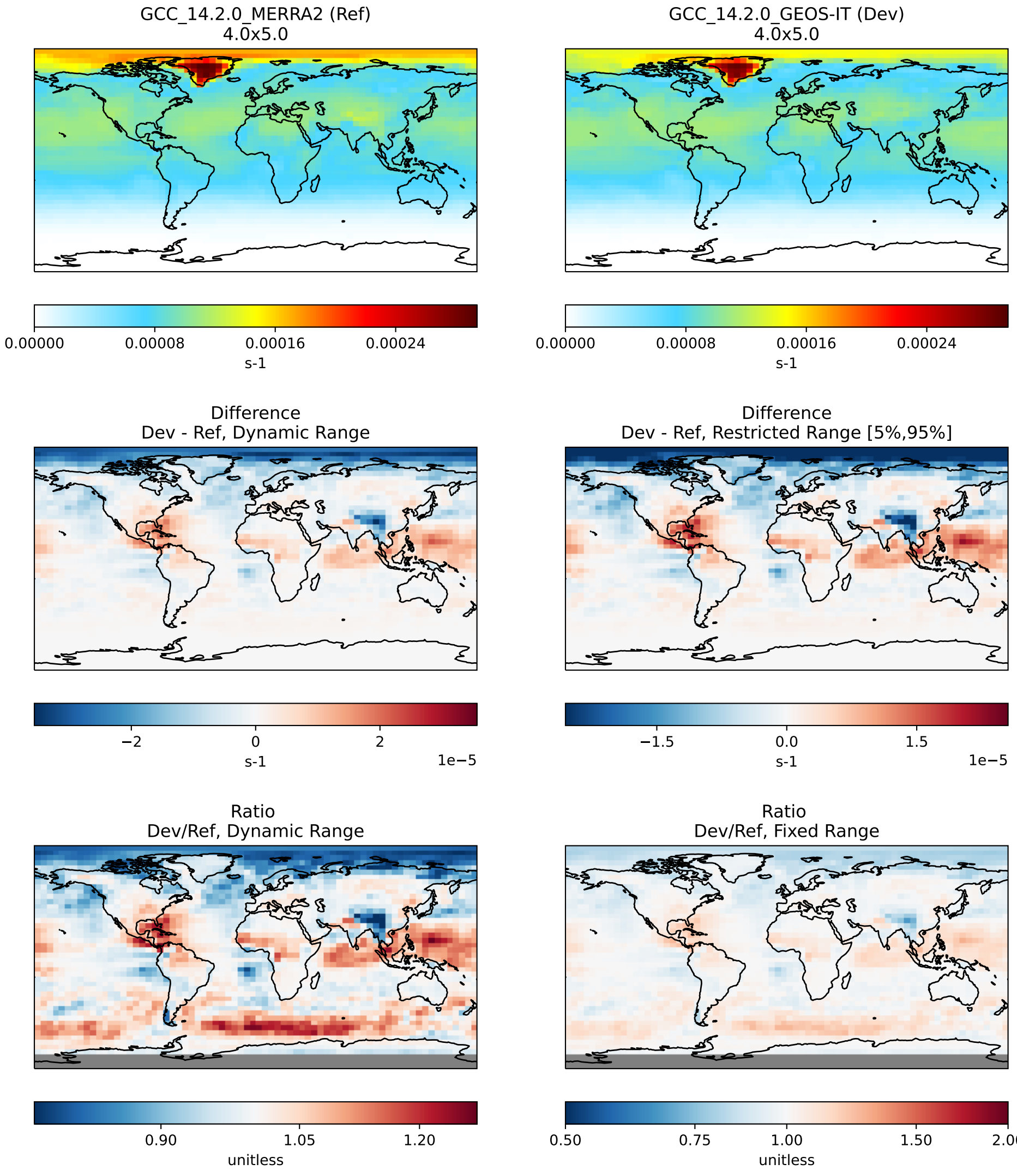
Jval_HONIT


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−1.5
0.0
1.5
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−8
0
8
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

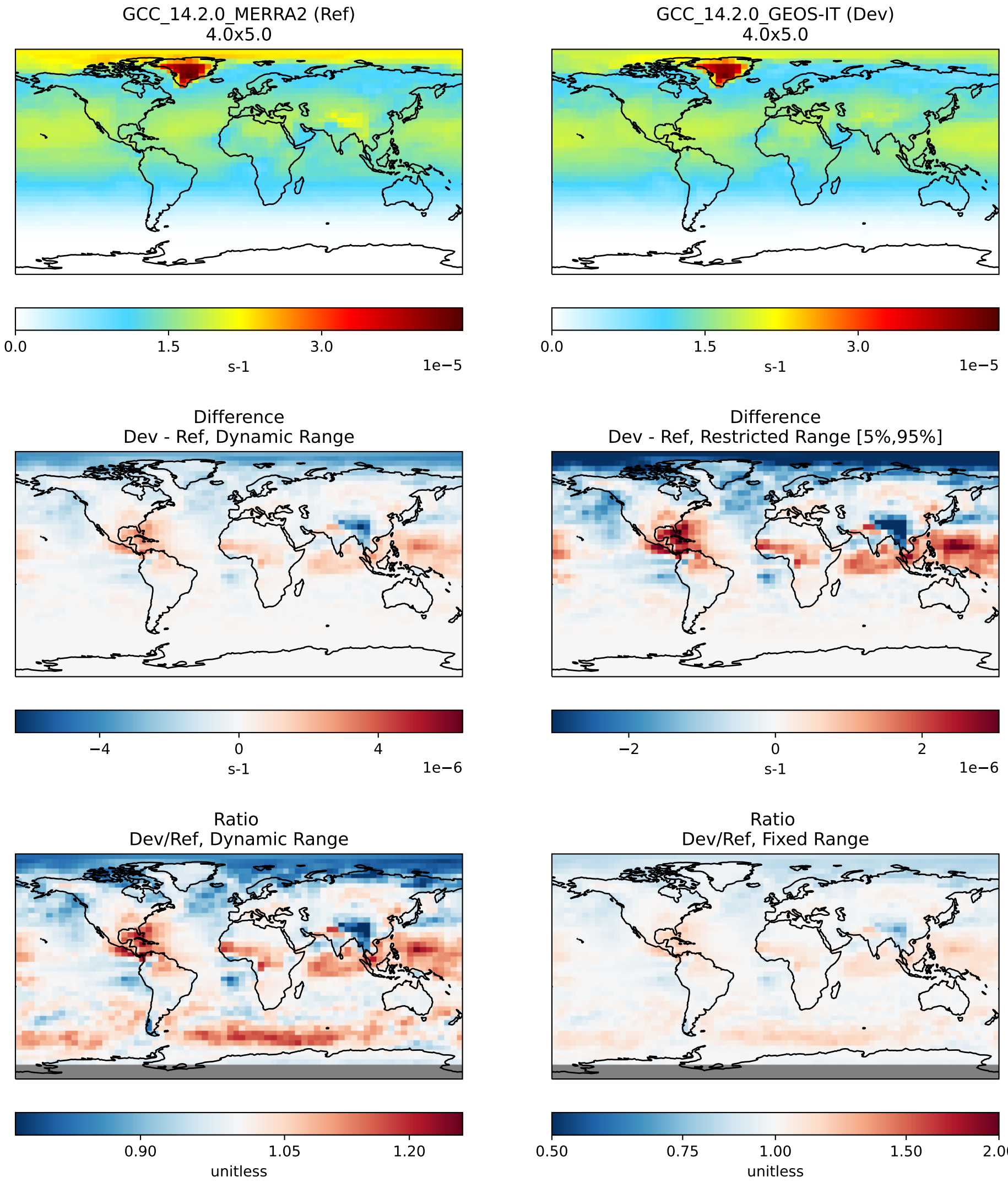
Jval_HPALD1


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00000
0.00008
0.00016
0.00024
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00000
0.00008
0.00016
0.00024
s-1
Difference
Dev - Ref, Dynamic Range
−2
0
2
s-1
1e−5
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−5
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

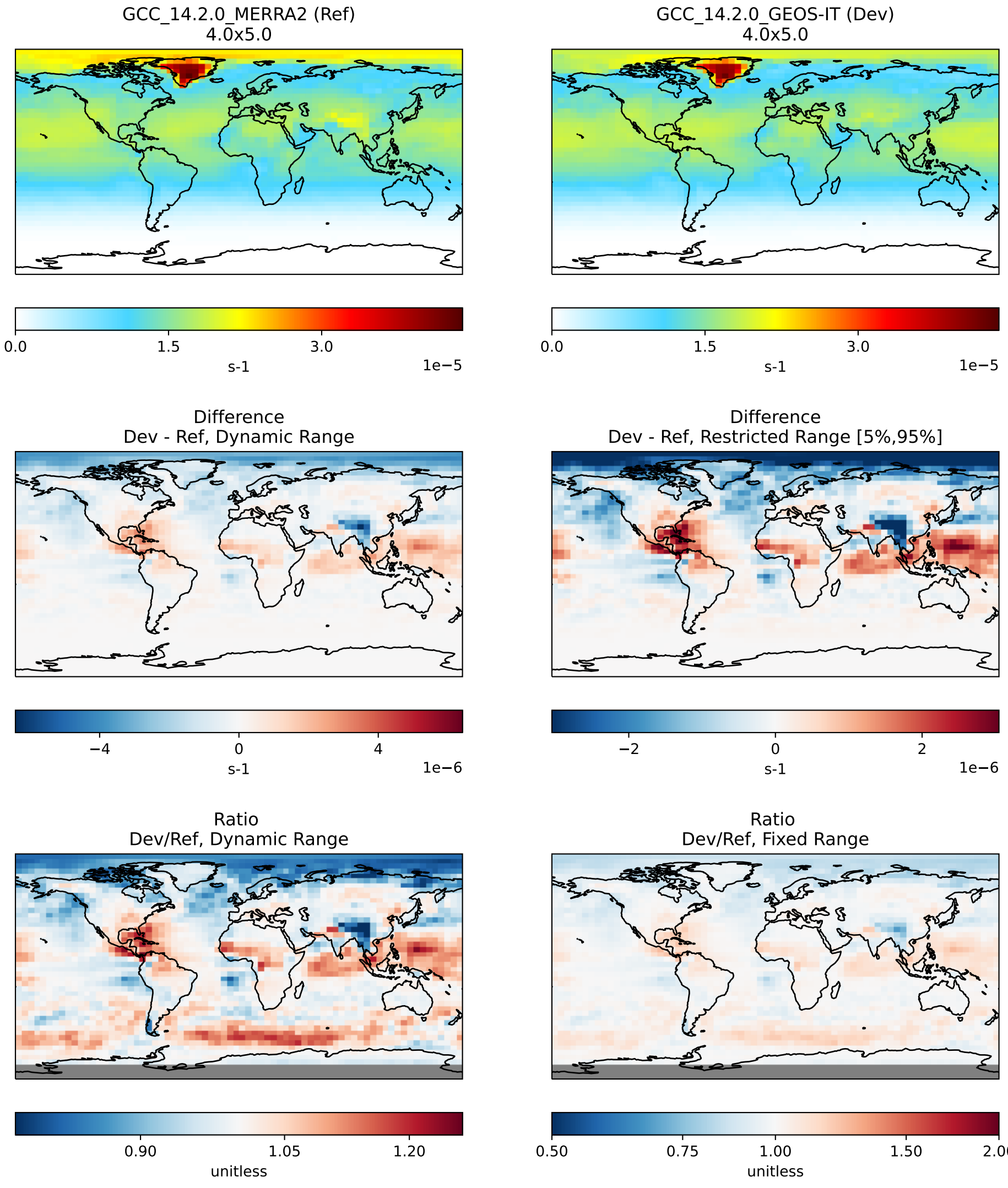
Jval_HPALD2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00000
0.00008
0.00016
0.00024
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00000
0.00008
0.00016
0.00024
s-1
Difference
Dev - Ref, Dynamic Range
−2
0
2
s-1
1e−5
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−5
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

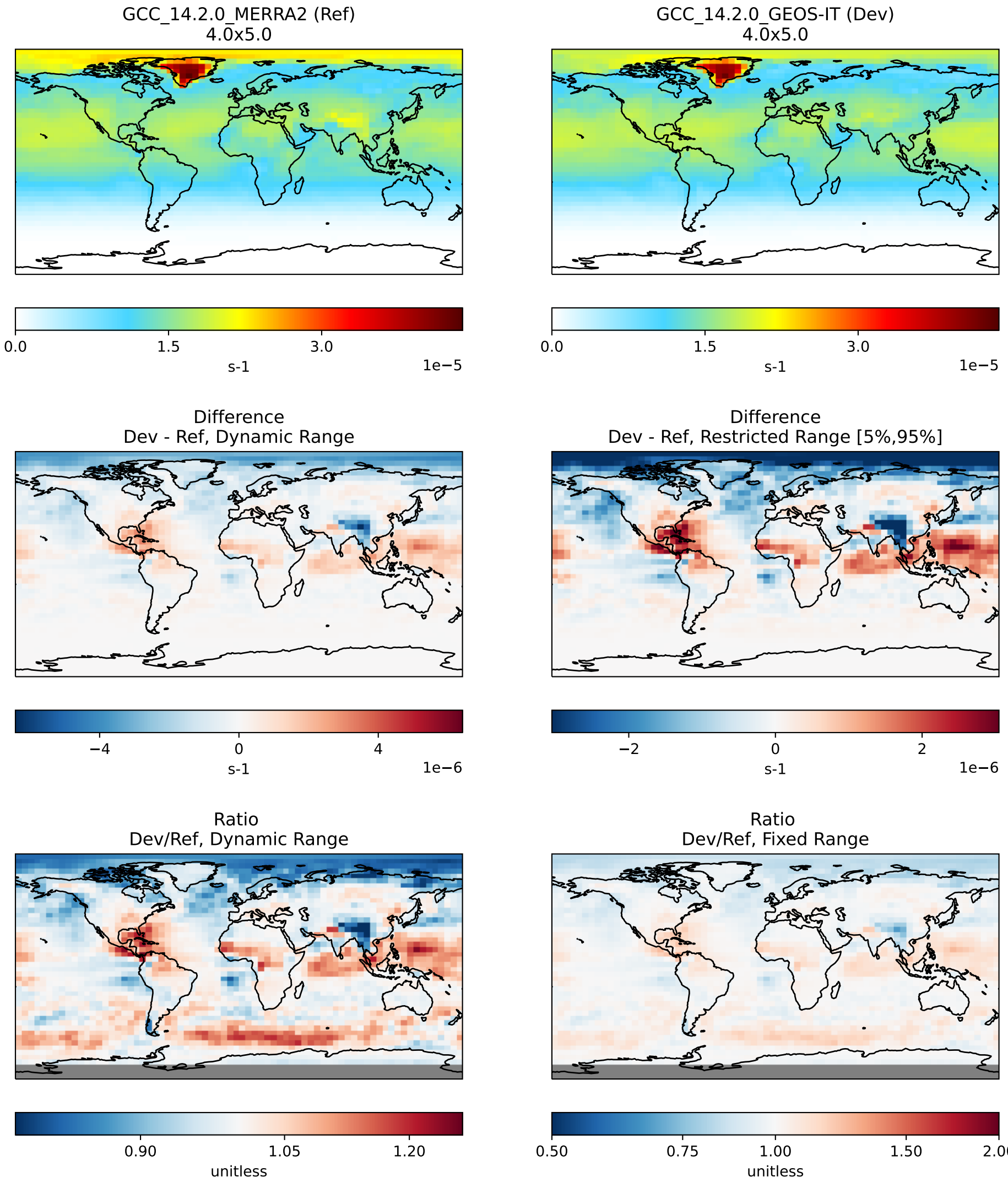
Jval_HPALD3


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−2
0
2
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

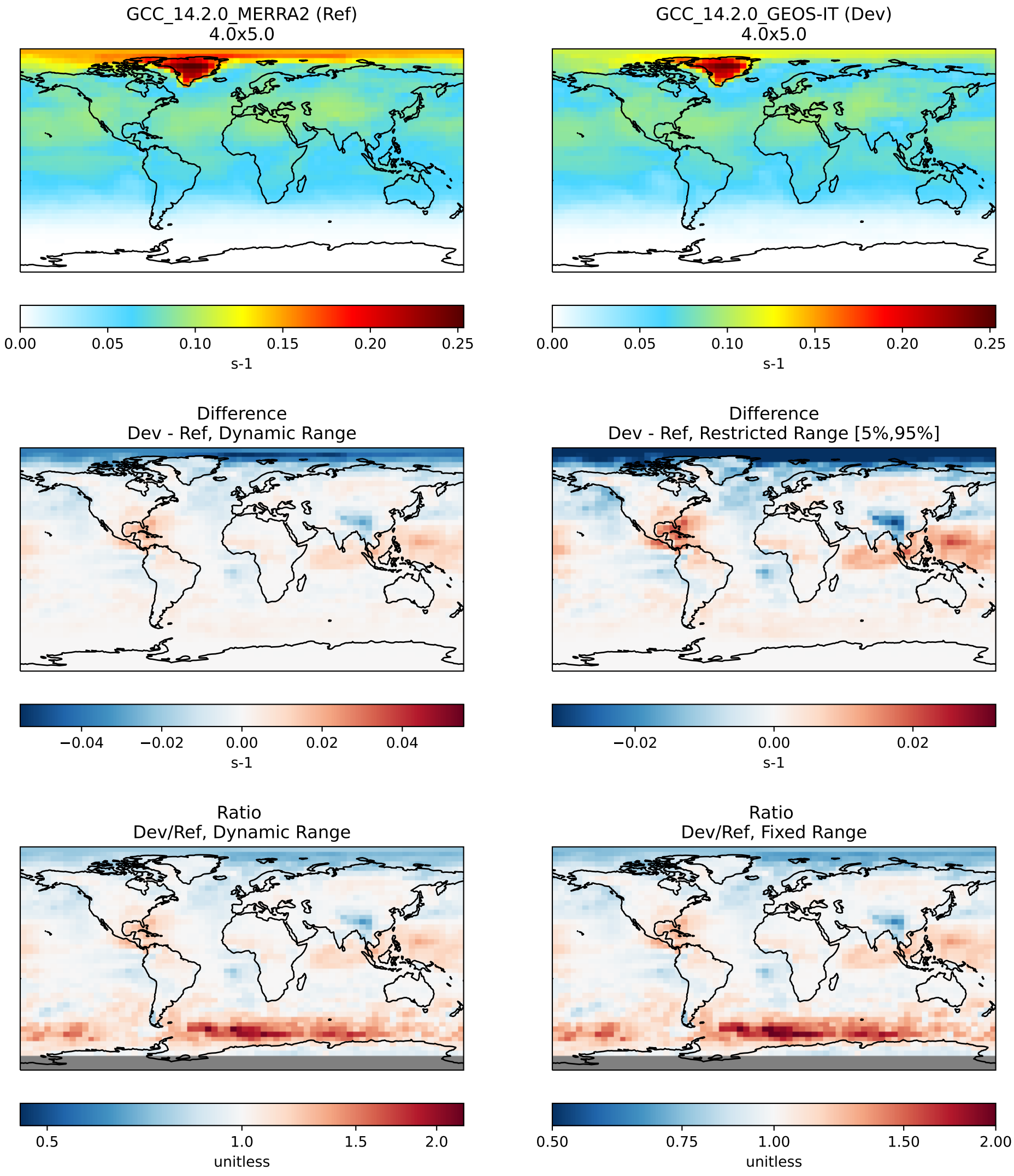
Jval_HPALD4


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−2
0
2
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

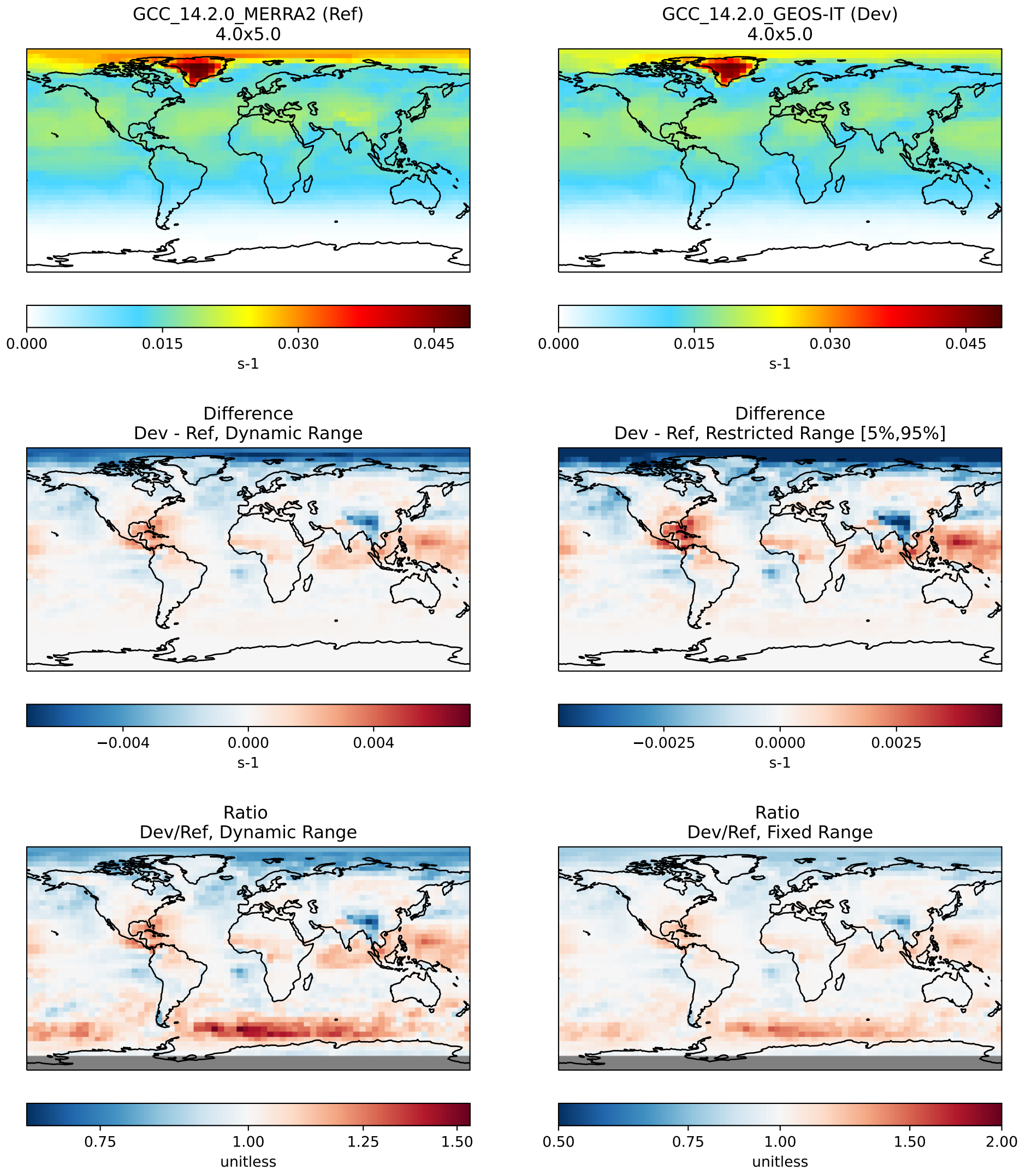
Jval_HPETHNL



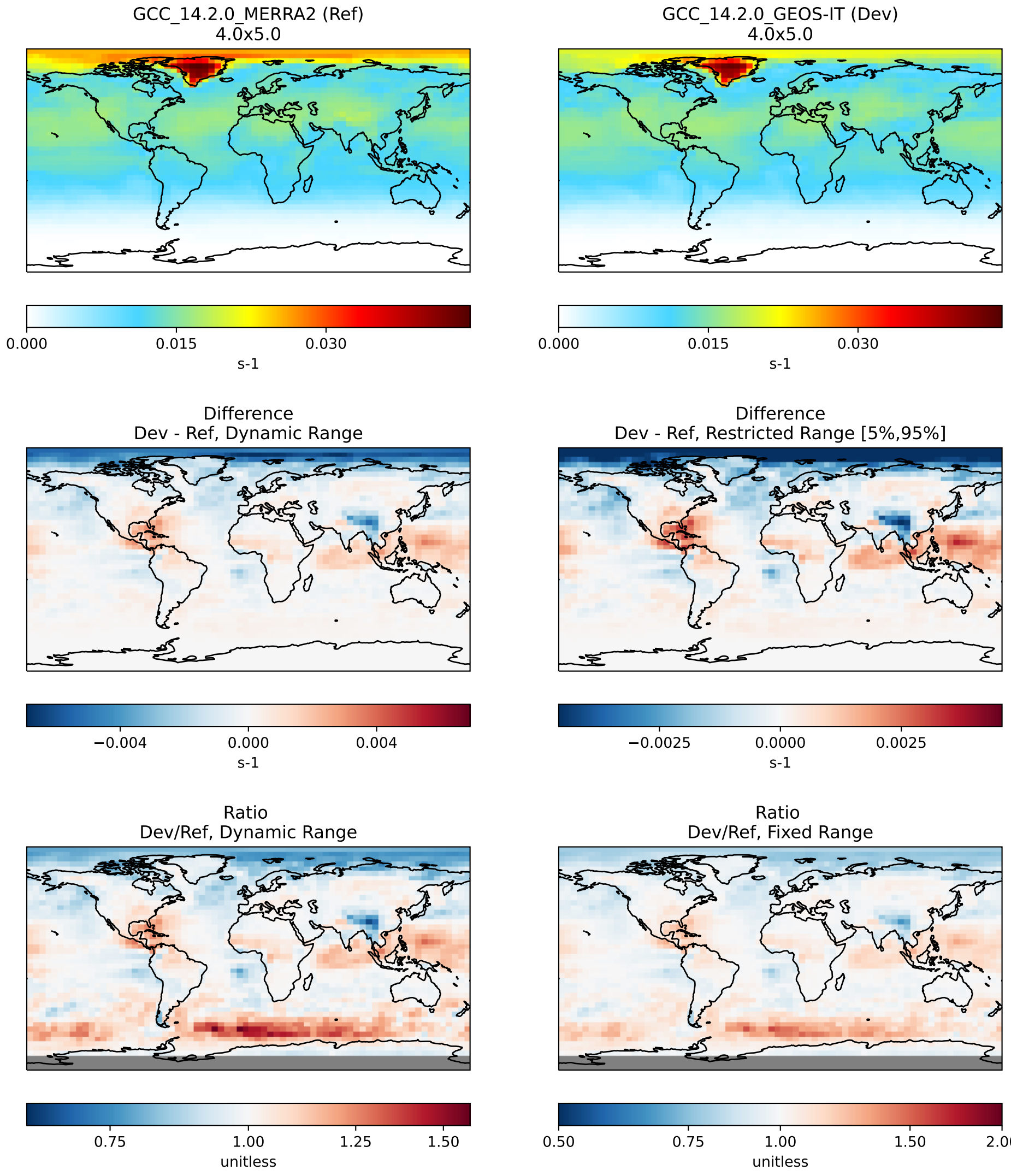
Jval_I2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00
0.05
0.10
0.15
0.20
0.25
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00
0.05
0.10
0.15
0.20
0.25
s-1
Difference
Dev - Ref, Dynamic Range
−0.04
−0.02
0.00
0.02
0.04
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.02
0.00
0.02
s-1
Ratio
Dev/Ref, Dynamic Range
0.5
1.0
1.5
2.0
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

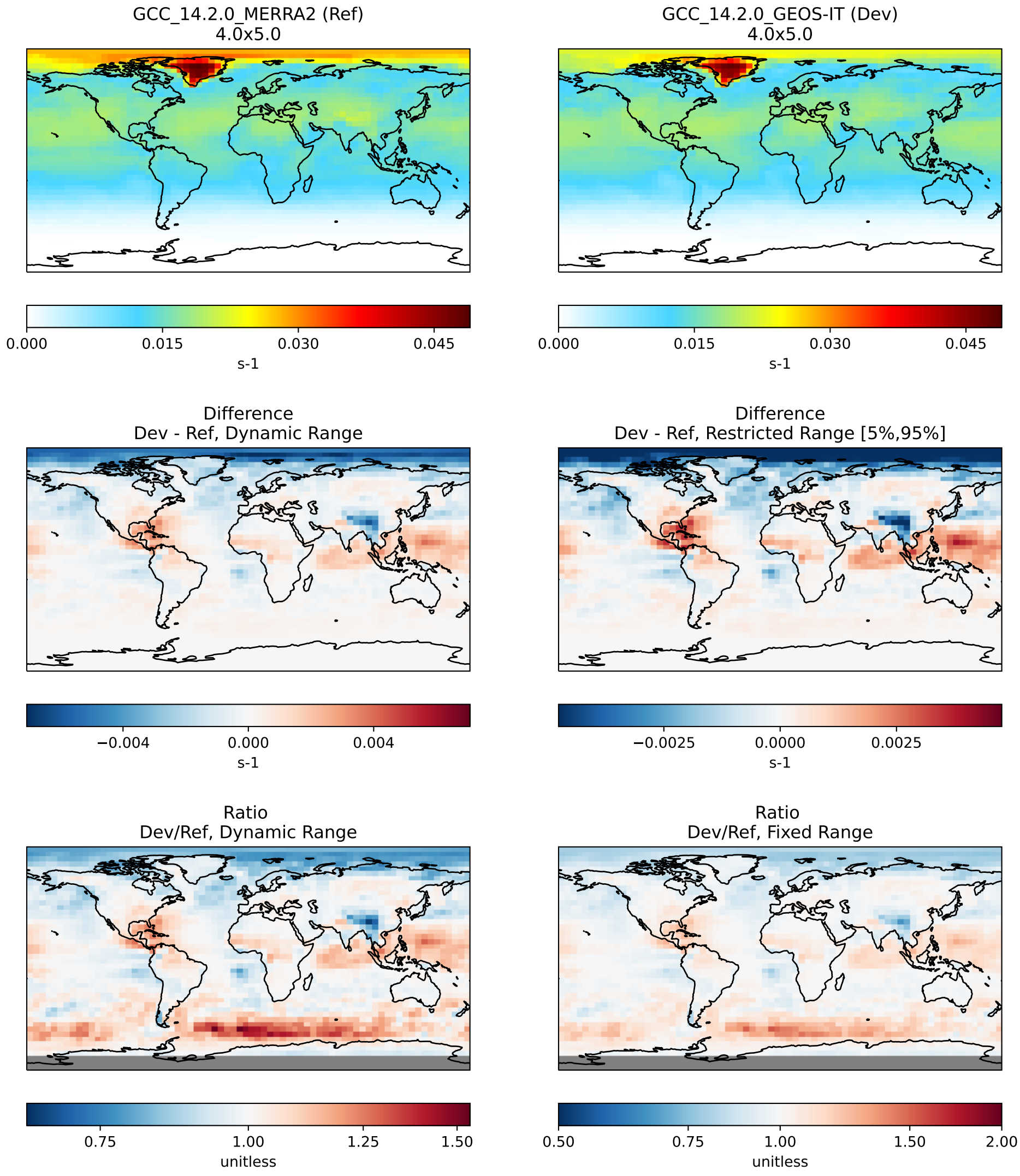
Jval_I2O2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.000
0.015
0.030
0.045
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.000
0.015
0.030
0.045
s-1
Difference
Dev - Ref, Dynamic Range
−0.004
0.000
0.004
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.0025
0.0000
0.0025
s-1
Ratio
Dev/Ref, Dynamic Range
0.75
1.00
1.25
1.50
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

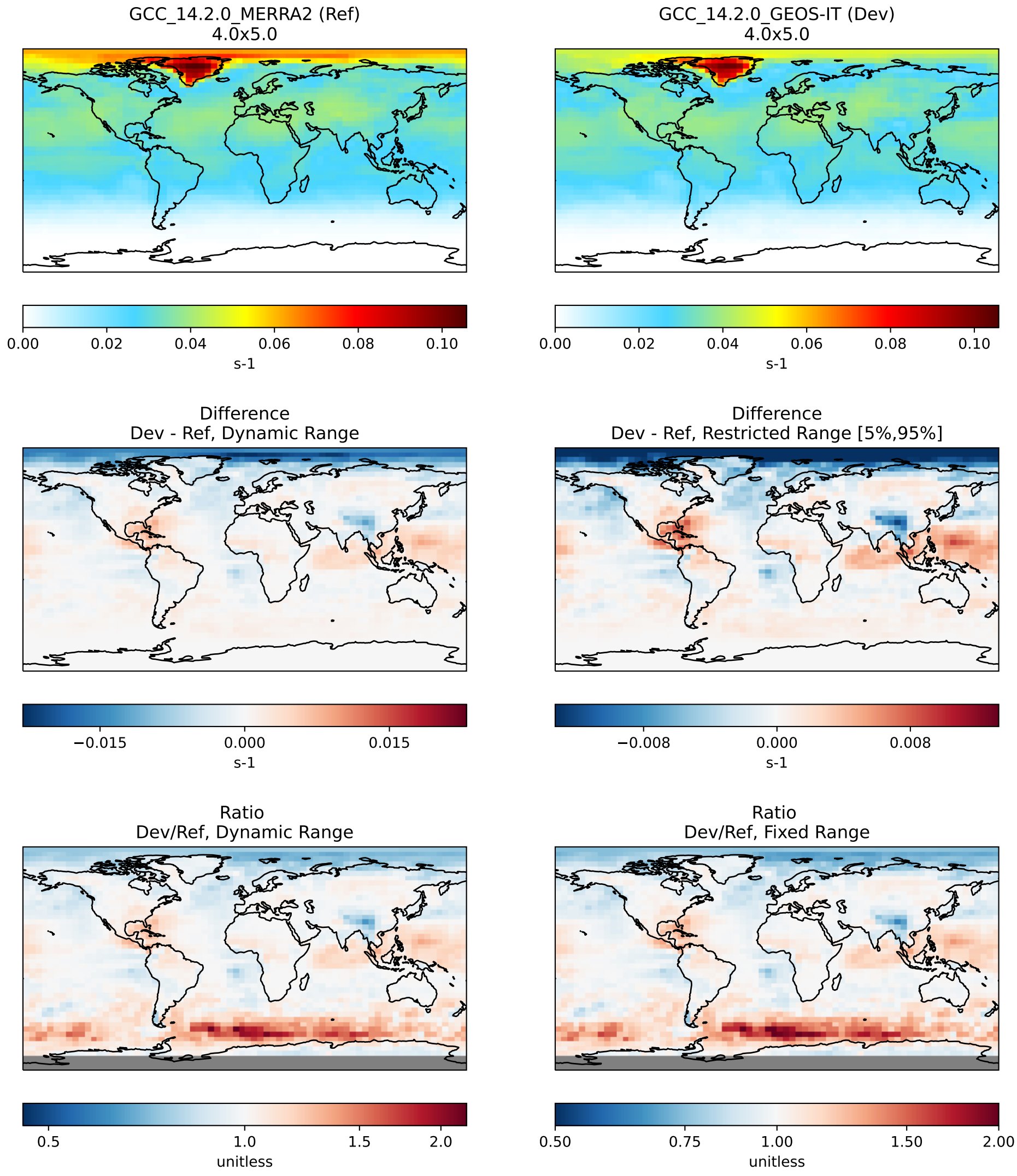
Jval_I2O3


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.000
0.015
0.030
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.000
0.015
0.030
s-1
Difference
Dev - Ref, Dynamic Range
−0.004
0.000
0.004
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.0025
0.0000
0.0025
s-1
Ratio
Dev/Ref, Dynamic Range
0.75
1.00
1.25
1.50
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

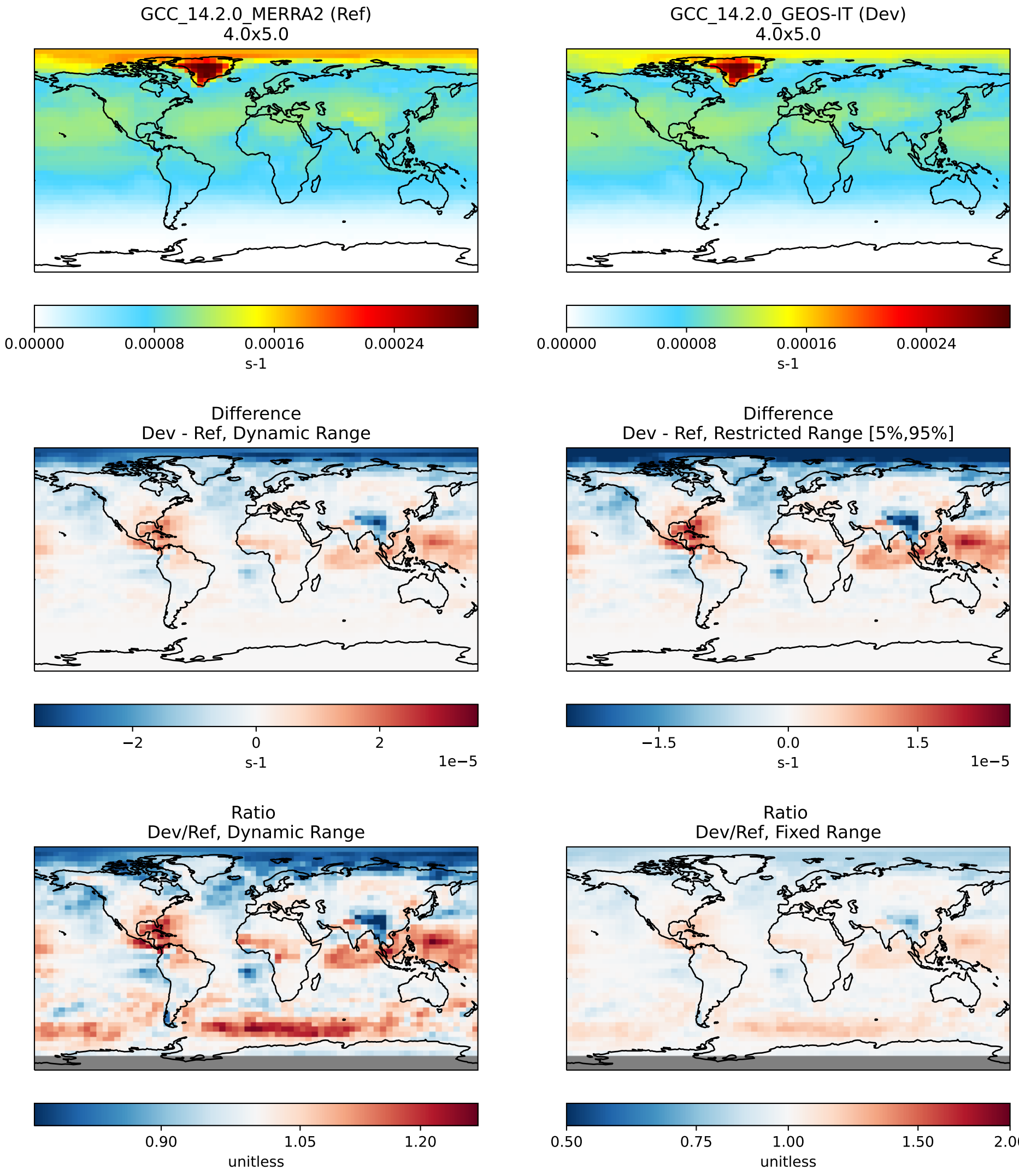
Jval_I2O4


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.000
0.015
0.030
0.045
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.000
0.015
0.030
0.045
s-1
Difference
Dev - Ref, Dynamic Range
−0.004
0.000
0.004
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.0025
0.0000
0.0025
s-1
Ratio
Dev/Ref, Dynamic Range
0.75
1.00
1.25
1.50
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

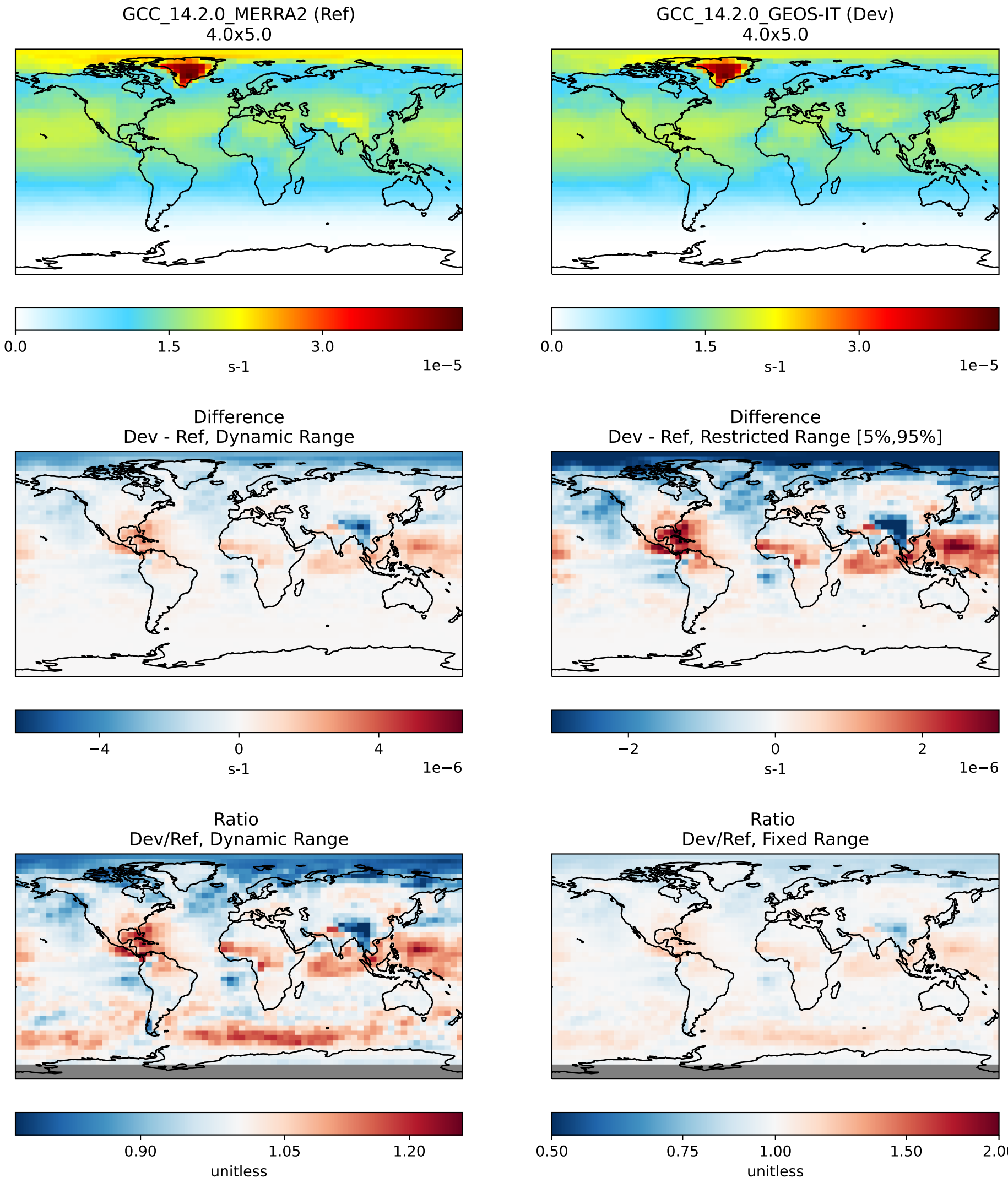
Jval_IBr


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00
0.02
0.04
0.06
0.08
0.10
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00
0.02
0.04
0.06
0.08
0.10
s-1
Difference
Dev - Ref, Dynamic Range
−0.015
0.000
0.015
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.008
0.000
0.008
s-1
Ratio
Dev/Ref, Dynamic Range
0.5
1.0
1.5
2.0
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

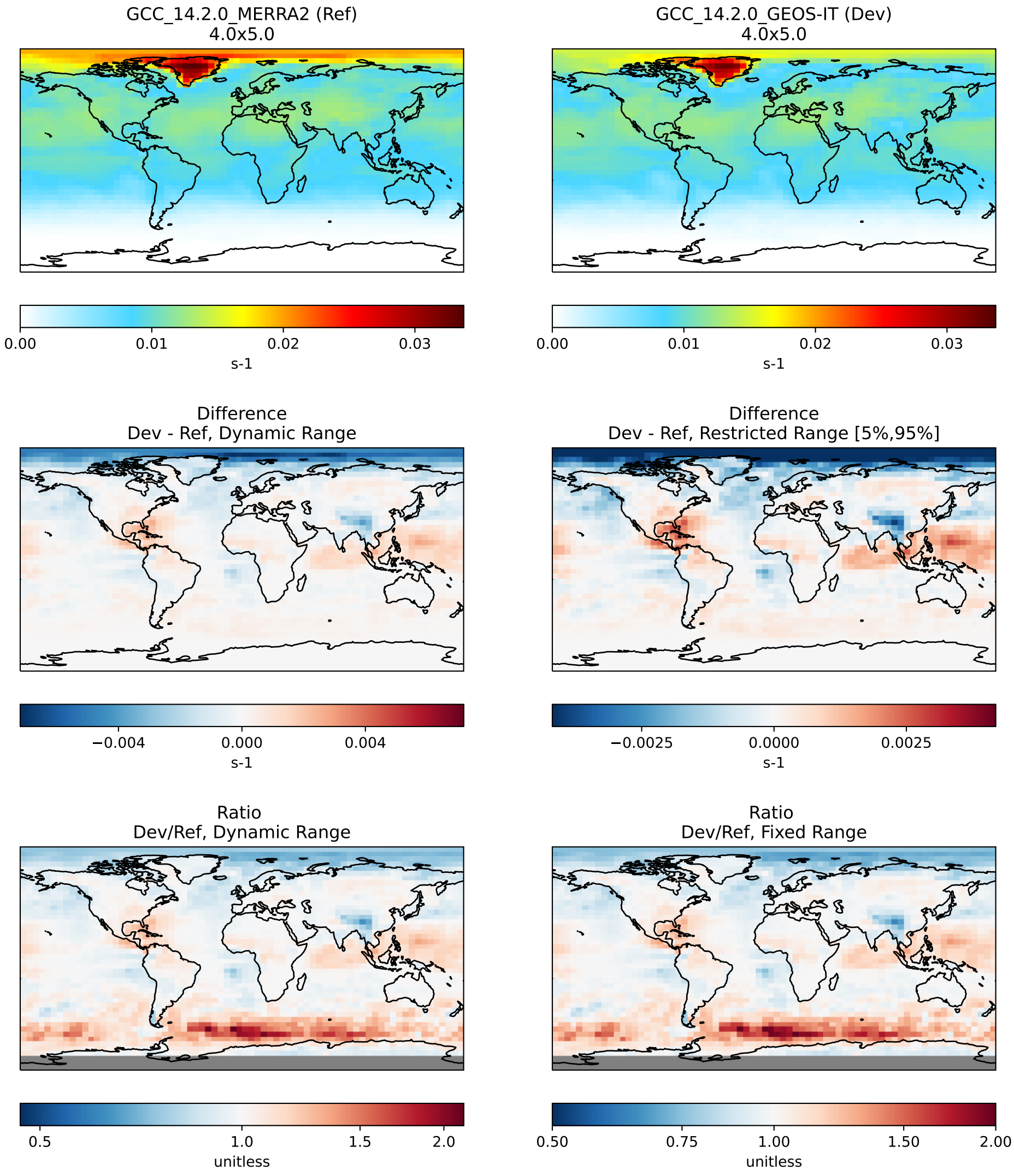
Jval_ICN


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00000
0.00008
0.00016
0.00024
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00000
0.00008
0.00016
0.00024
s-1
Difference
Dev - Ref, Dynamic Range
−2
0
2
s-1
1e−5
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−5
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

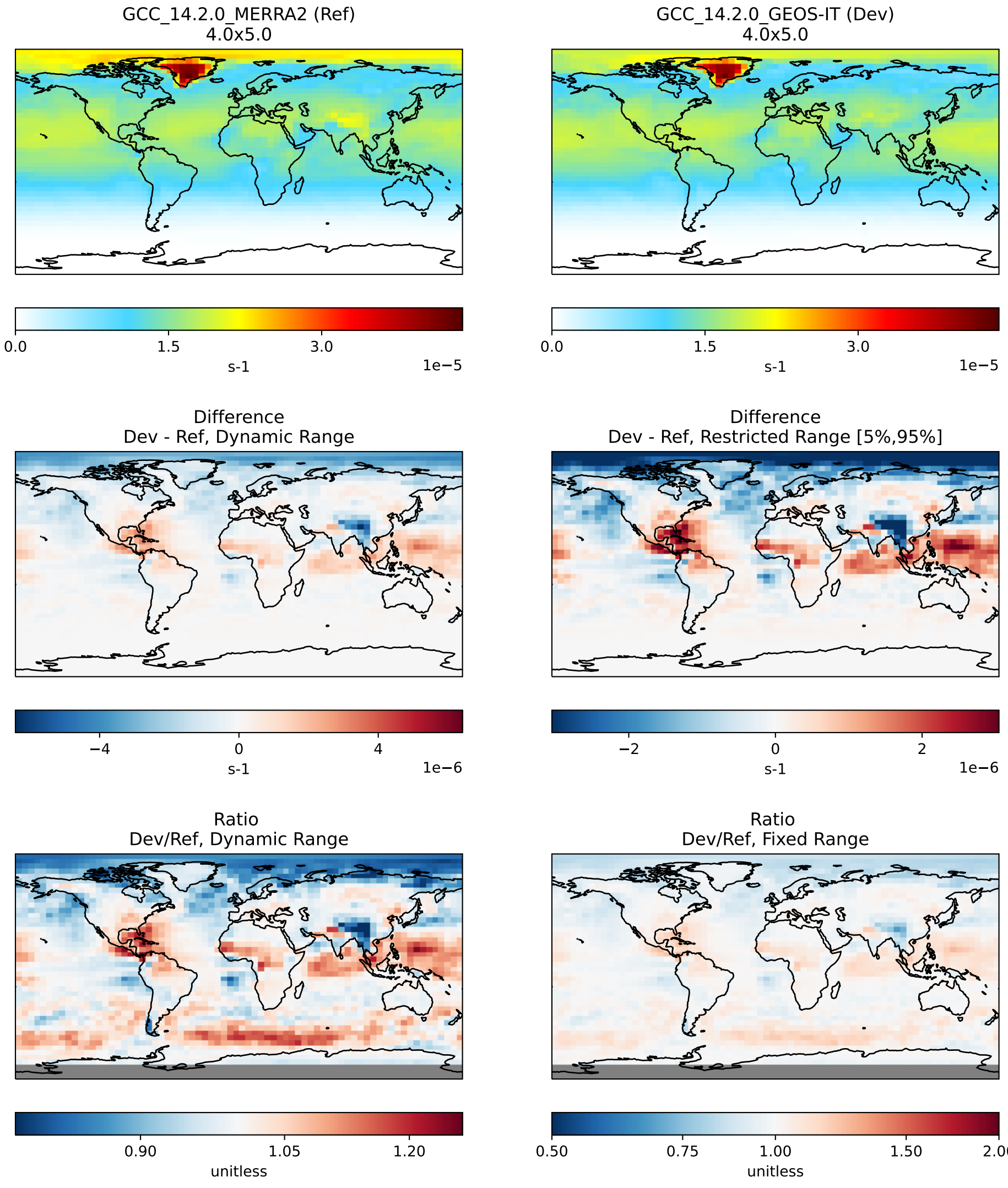
Jval_ICPDH


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−2
0
2
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

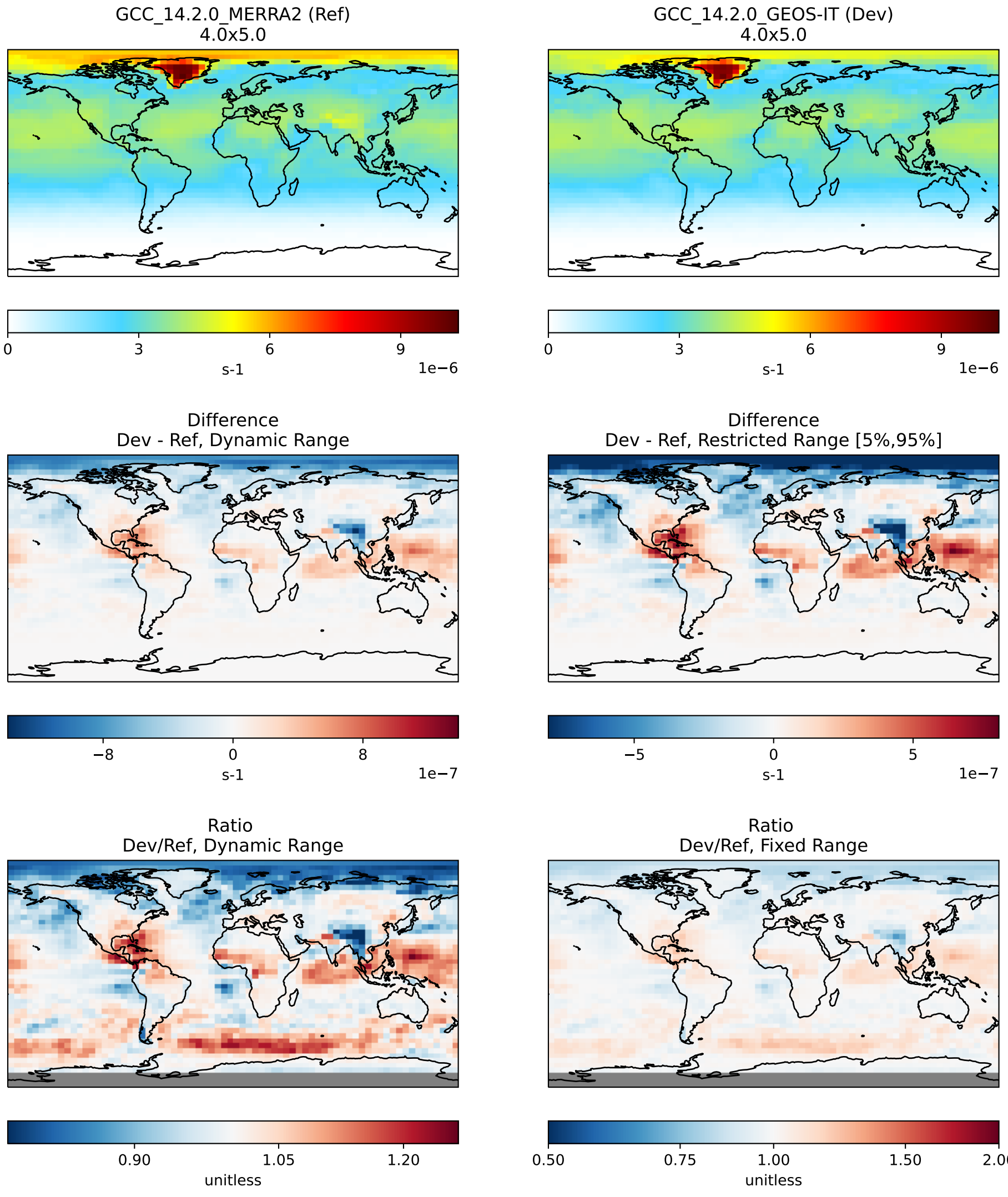
Jval_ICl


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00
0.01
0.02
0.03
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00
0.01
0.02
0.03
s-1
Difference
Dev - Ref, Dynamic Range
−0.004
0.000
0.004
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.0025
0.0000
0.0025
s-1
Ratio
Dev/Ref, Dynamic Range
0.5
1.0
1.5
2.0
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

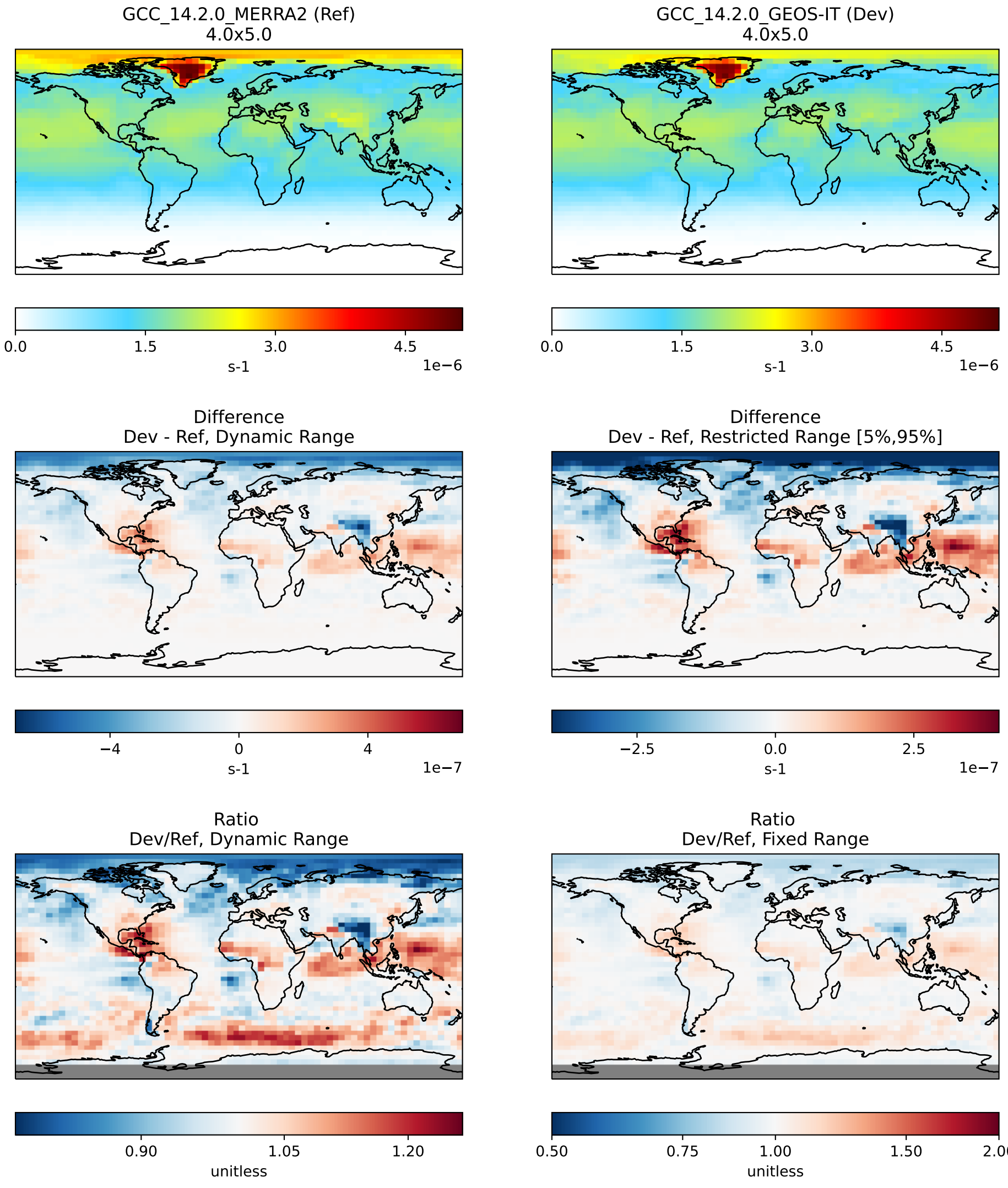
Jval_IDCHP


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−2
0
2
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

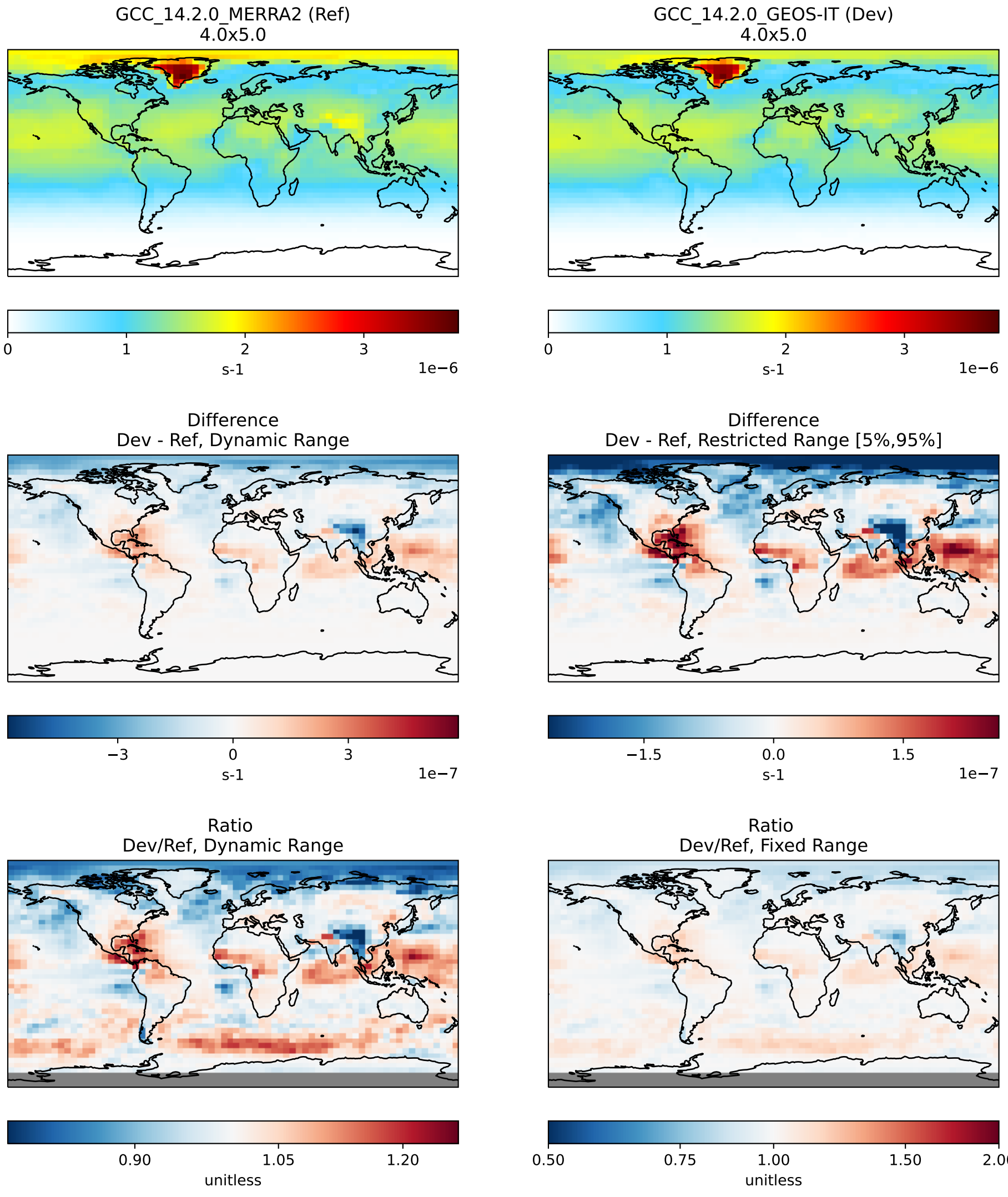
Jval_IDHDP


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
3
6
9
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
3
6
9
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−8
0
8
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−5
0
5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

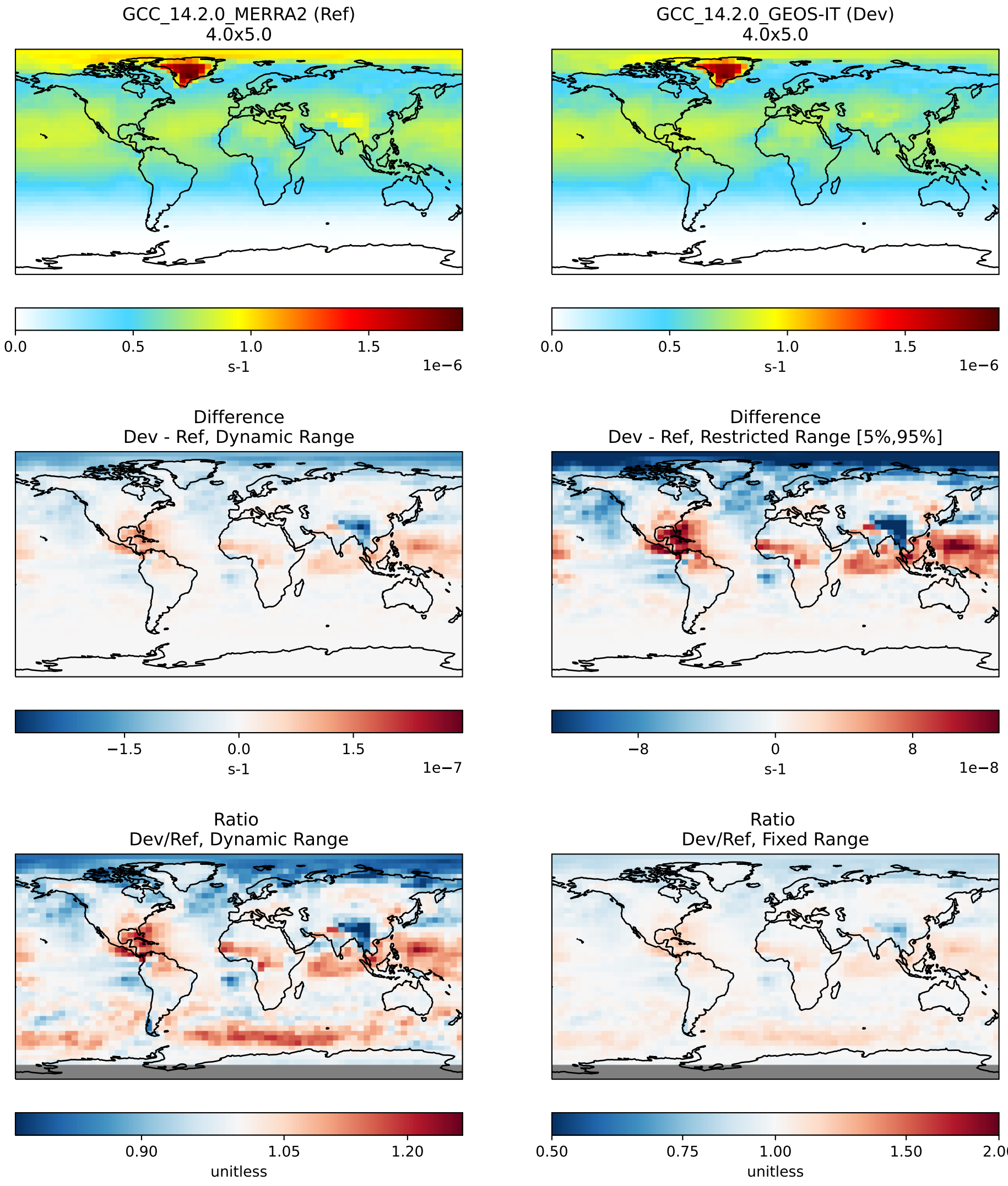
Jval_IDHPE


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

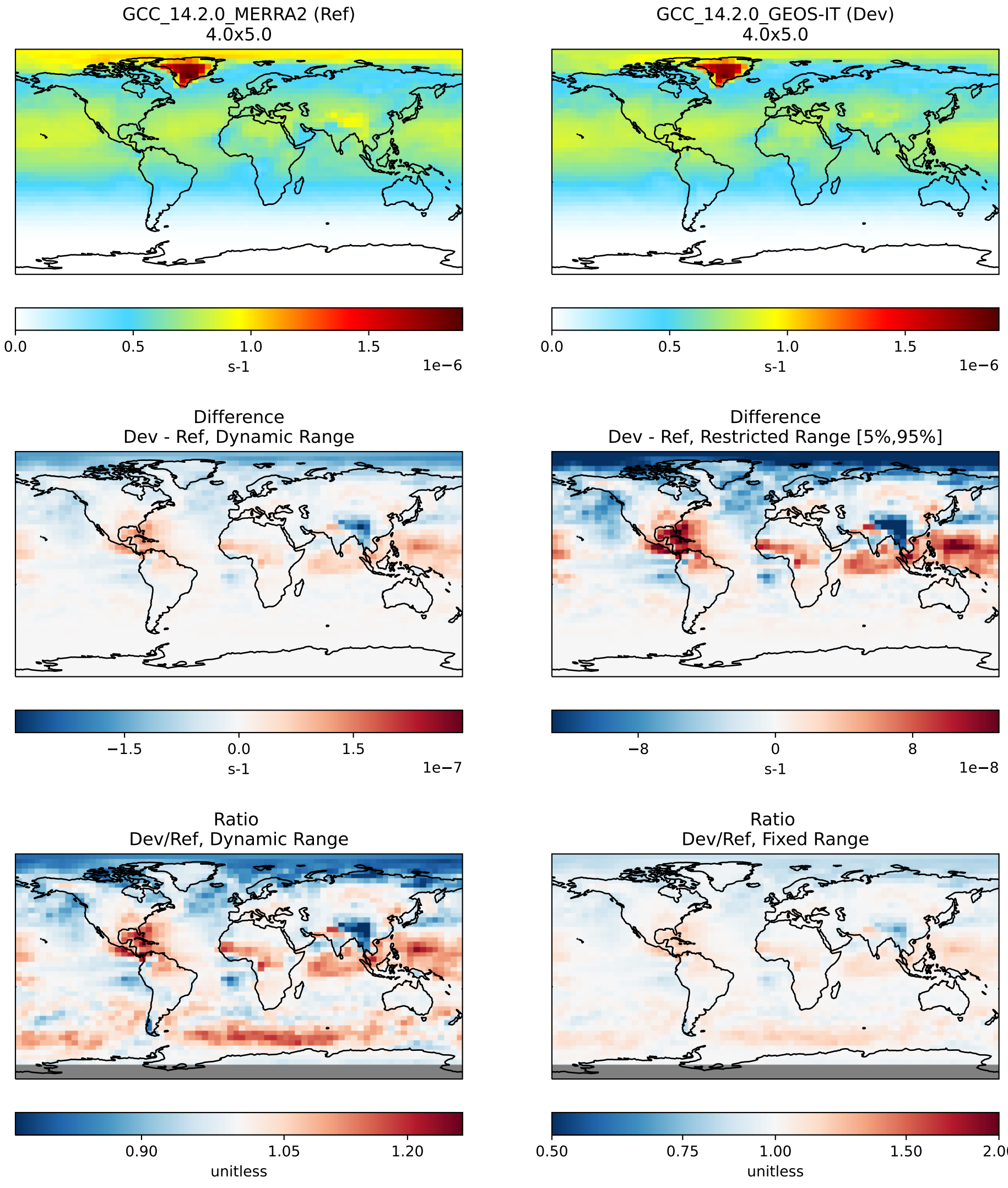
Jval_IDN


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
1
2
3
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
1
2
3
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−3
0
3
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

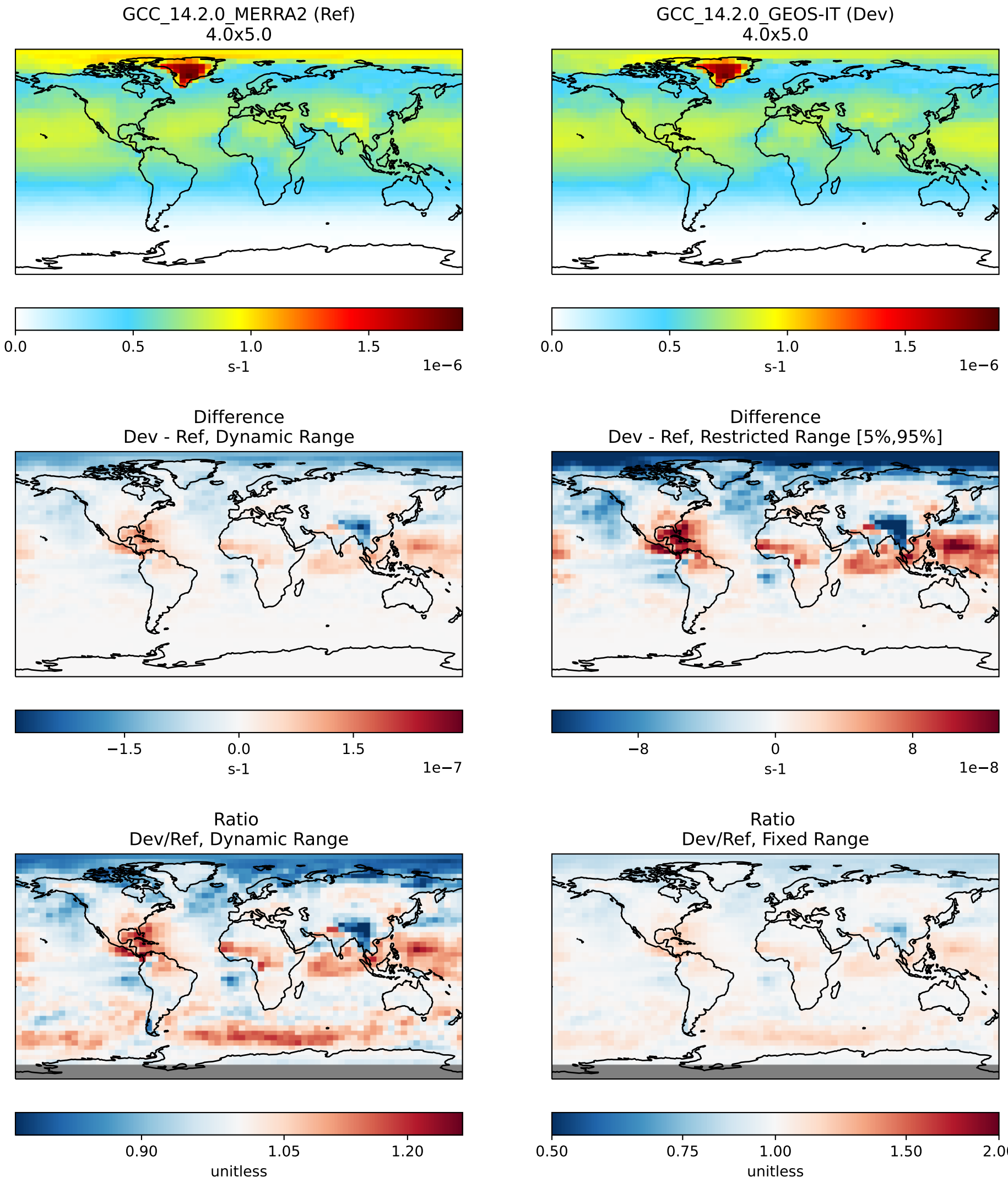
Jval_IHN1


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−1.5
0.0
1.5
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−8
0
8
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

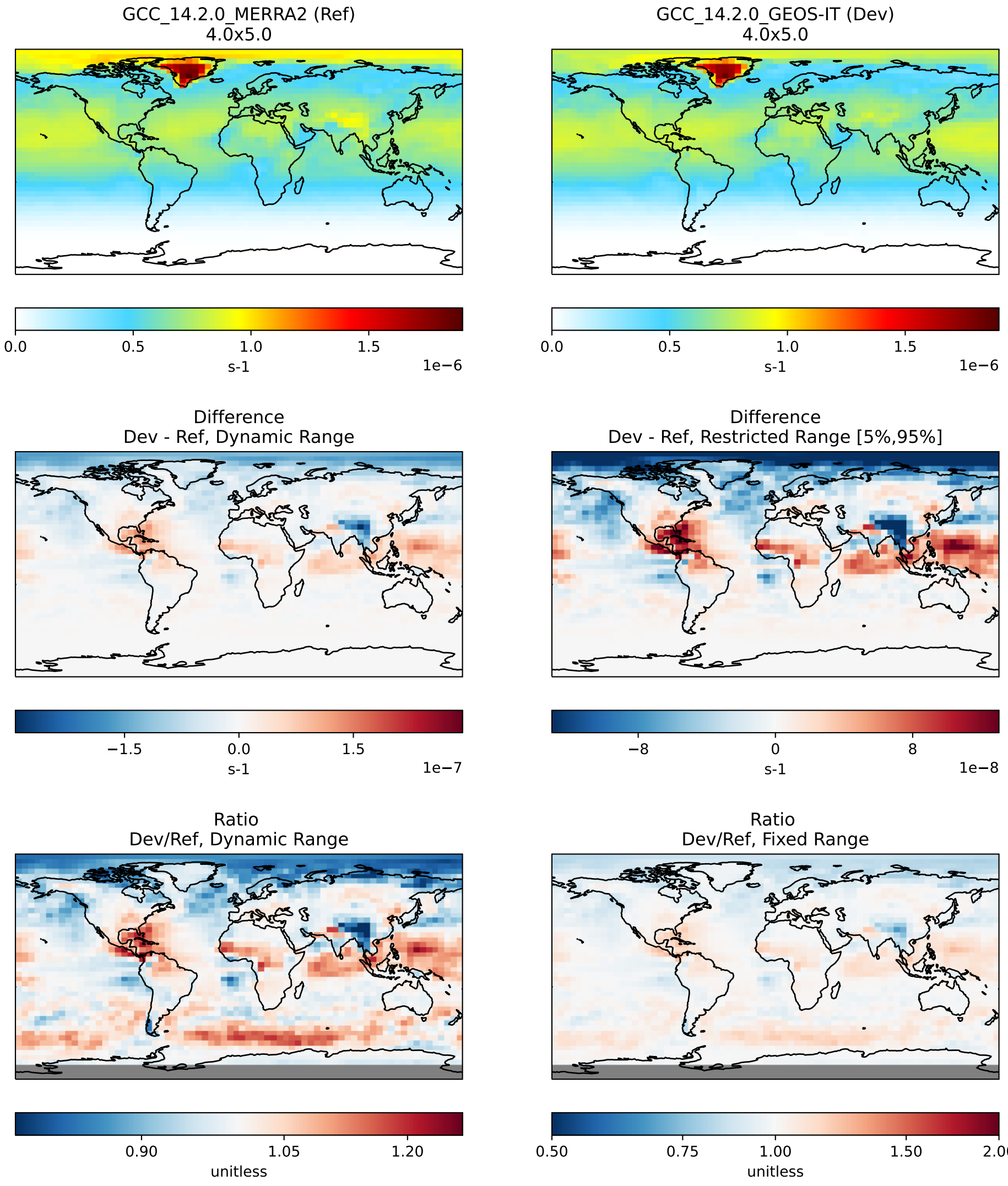
Jval_IHN2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−1.5
0.0
1.5
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−8
0
8
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

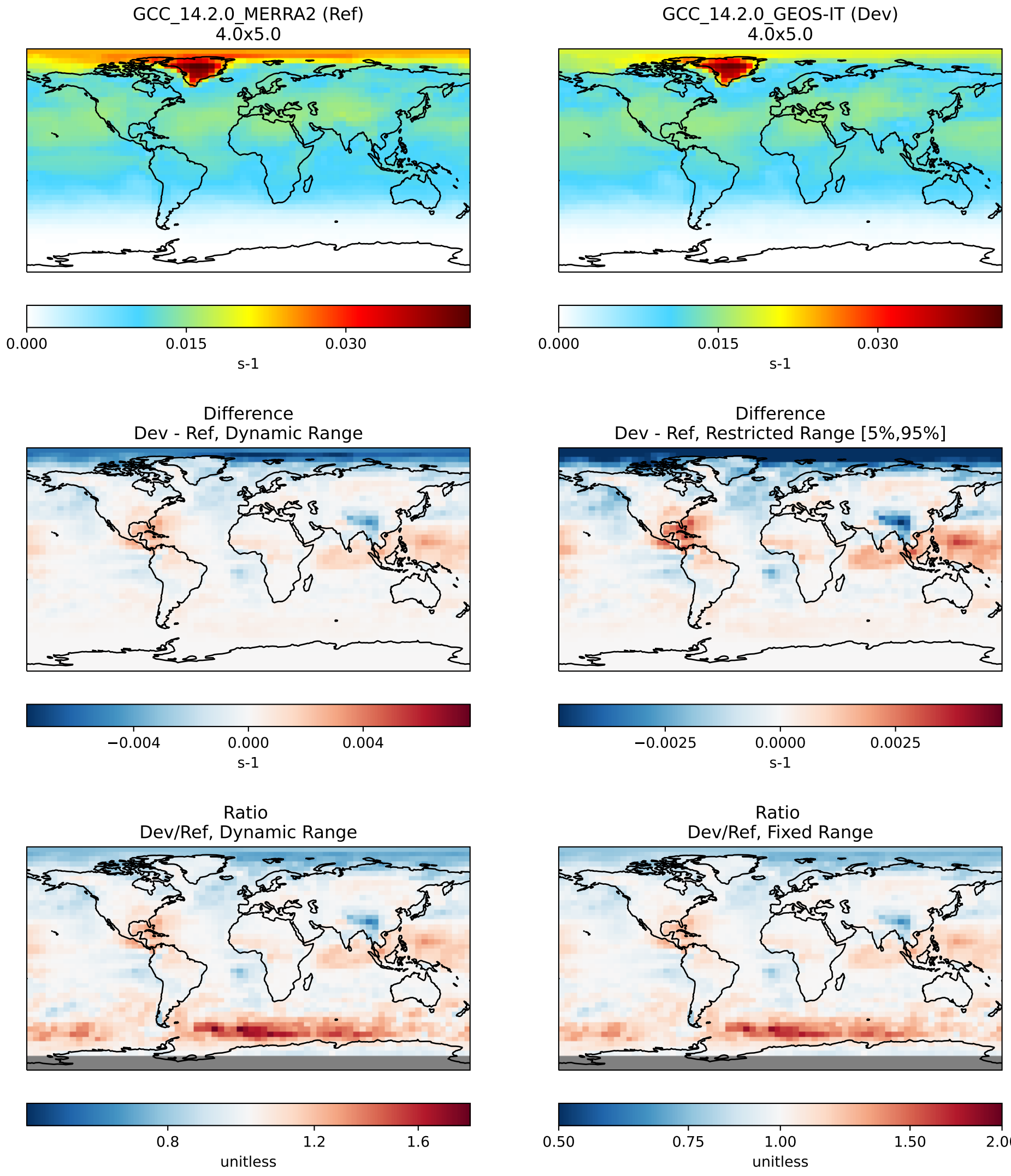
Jval_IHN3


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−1.5
0.0
1.5
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−8
0
8
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

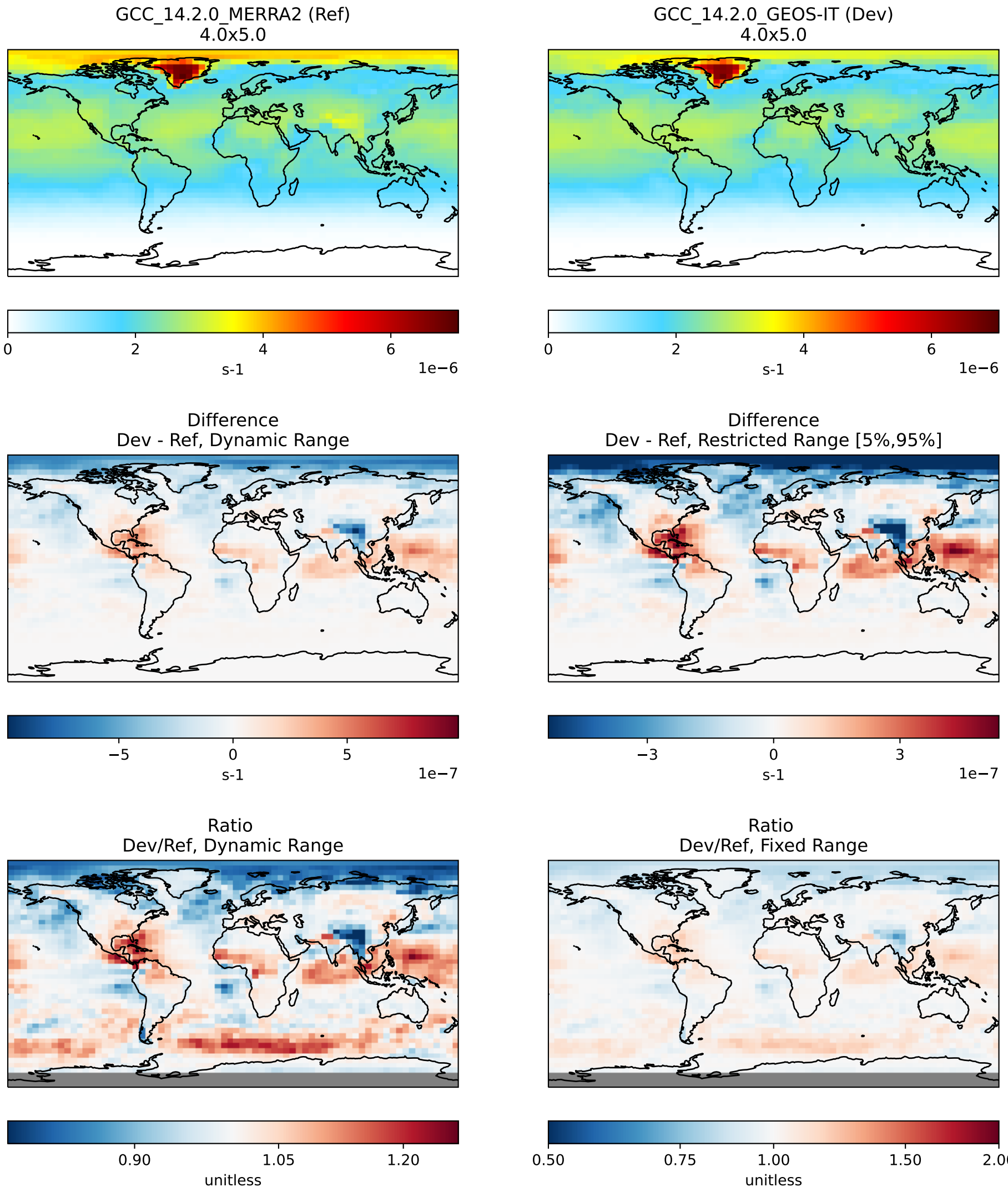
Jval_IHN4


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−1.5
0.0
1.5
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−8
0
8
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

Jval_INO

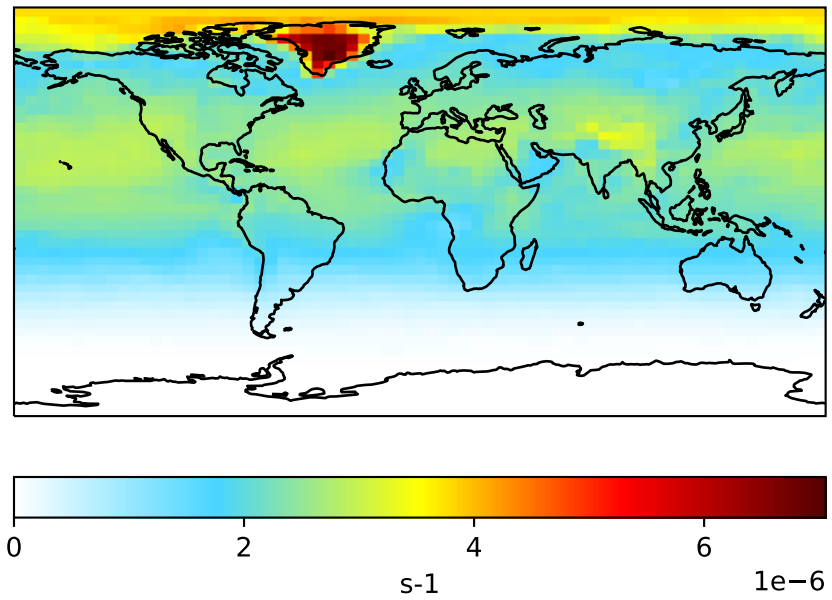

GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.000
0.015
0.030
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.000
0.015
0.030
s-1
Difference
Dev - Ref, Dynamic Range
−0.004
0.000
0.004
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.0025
0.0000
0.0025
s-1
Ratio
Dev/Ref, Dynamic Range
0.8
1.2
1.6
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

Jval_INPB

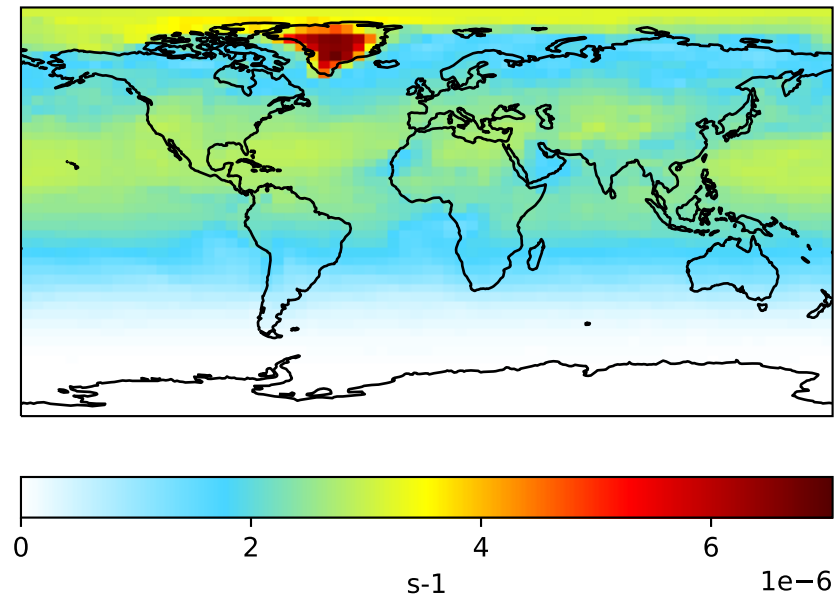

GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
2
4
6
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
2
4
6
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−5
0
5
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−3
0
3
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

Jval_INPD

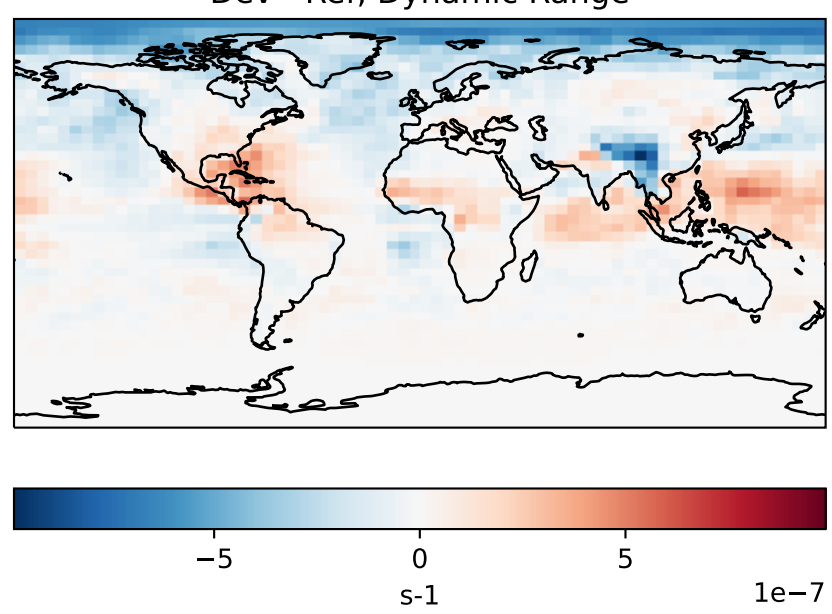
GCC_14.2.0_MERRA2 (Ref)
4.0x5.0



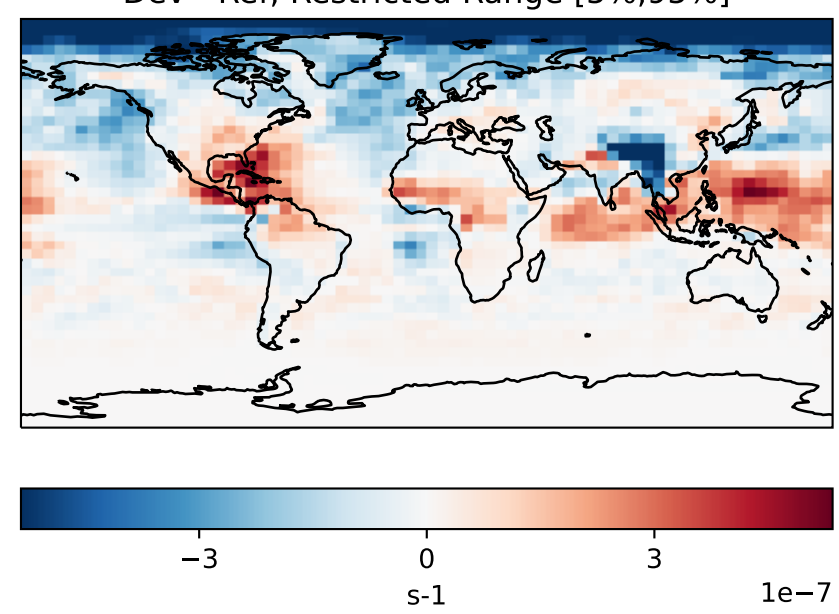
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0



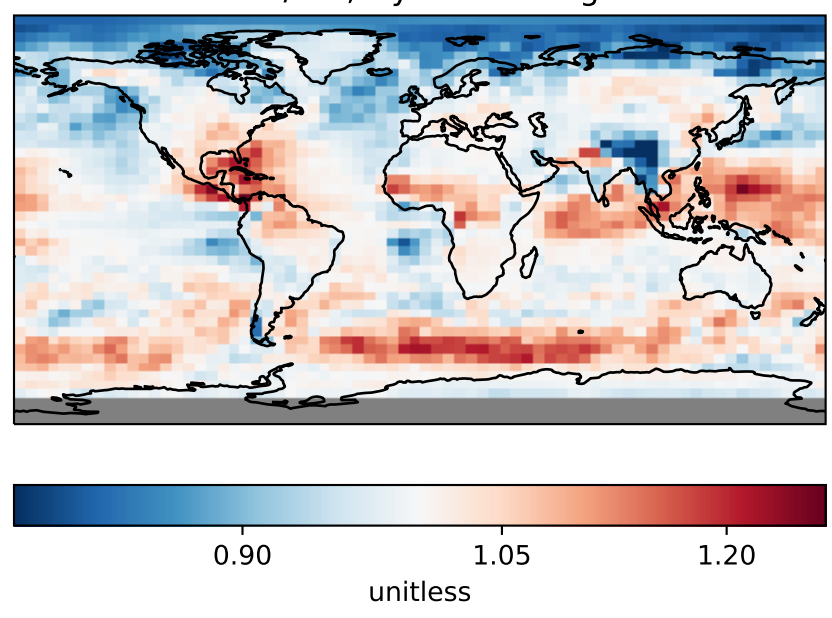
Difference
Dev - Ref, Dynamic Range



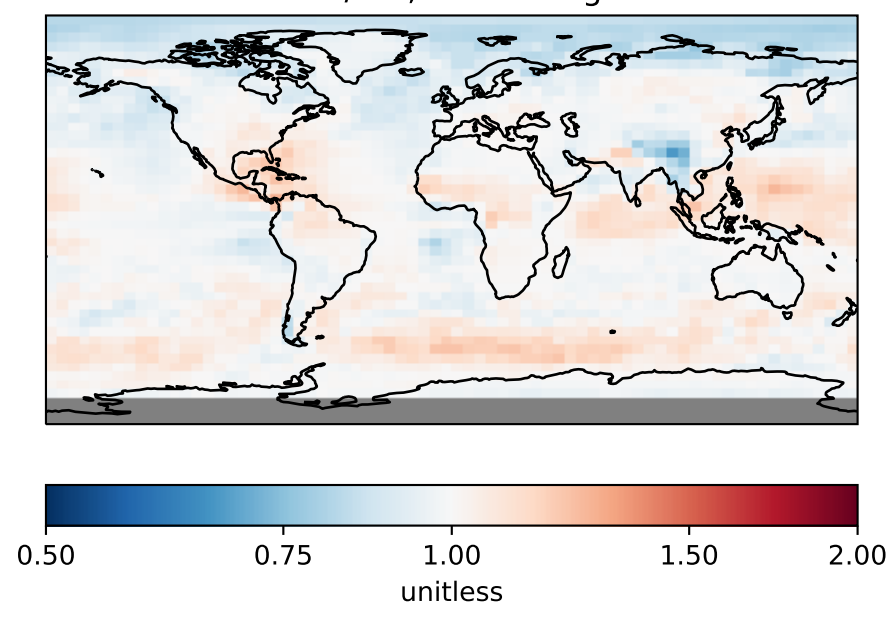
Difference
Dev - Ref, Restricted Range [5%,95%]



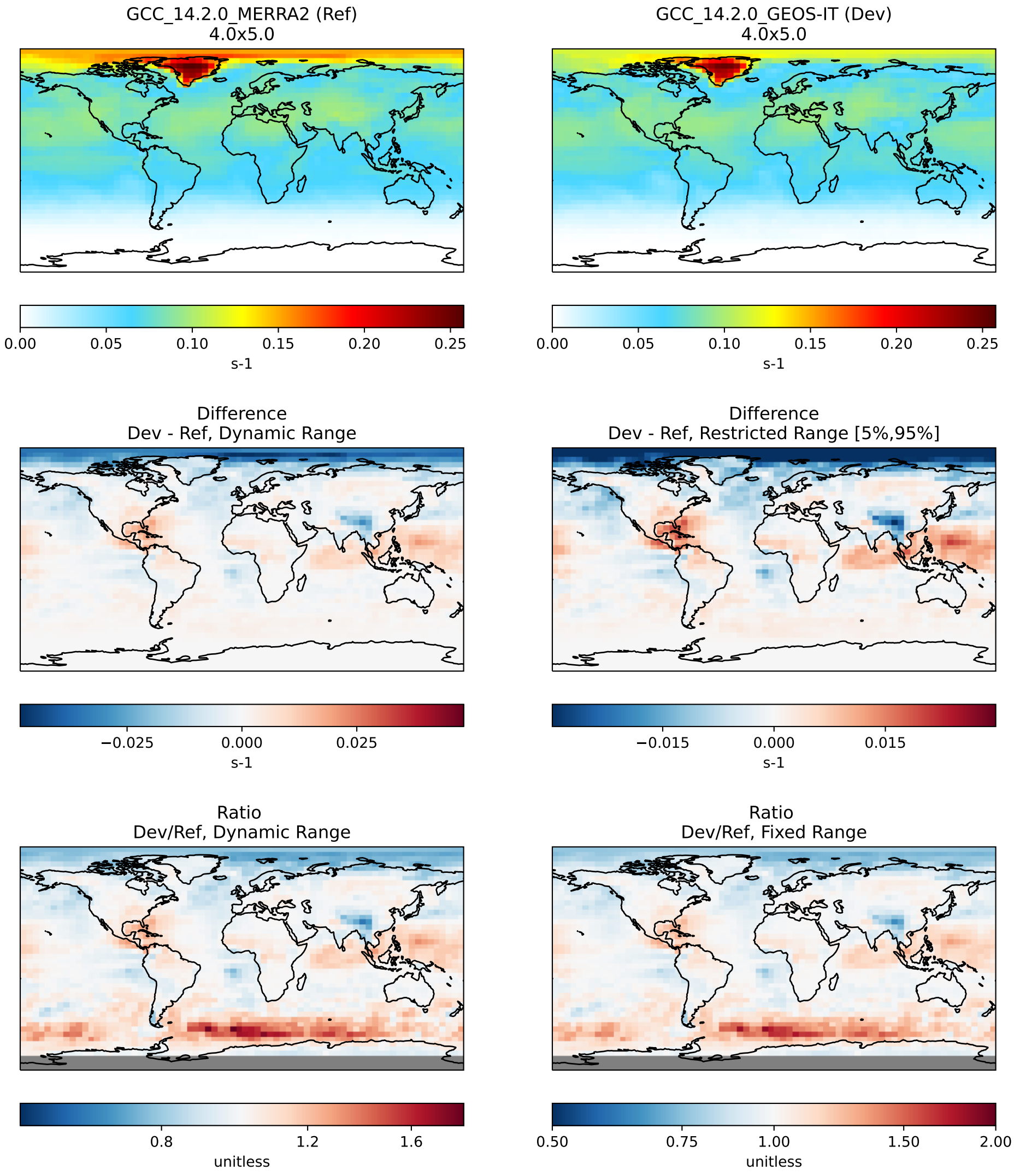
Ratio
Dev/Ref, Dynamic Range



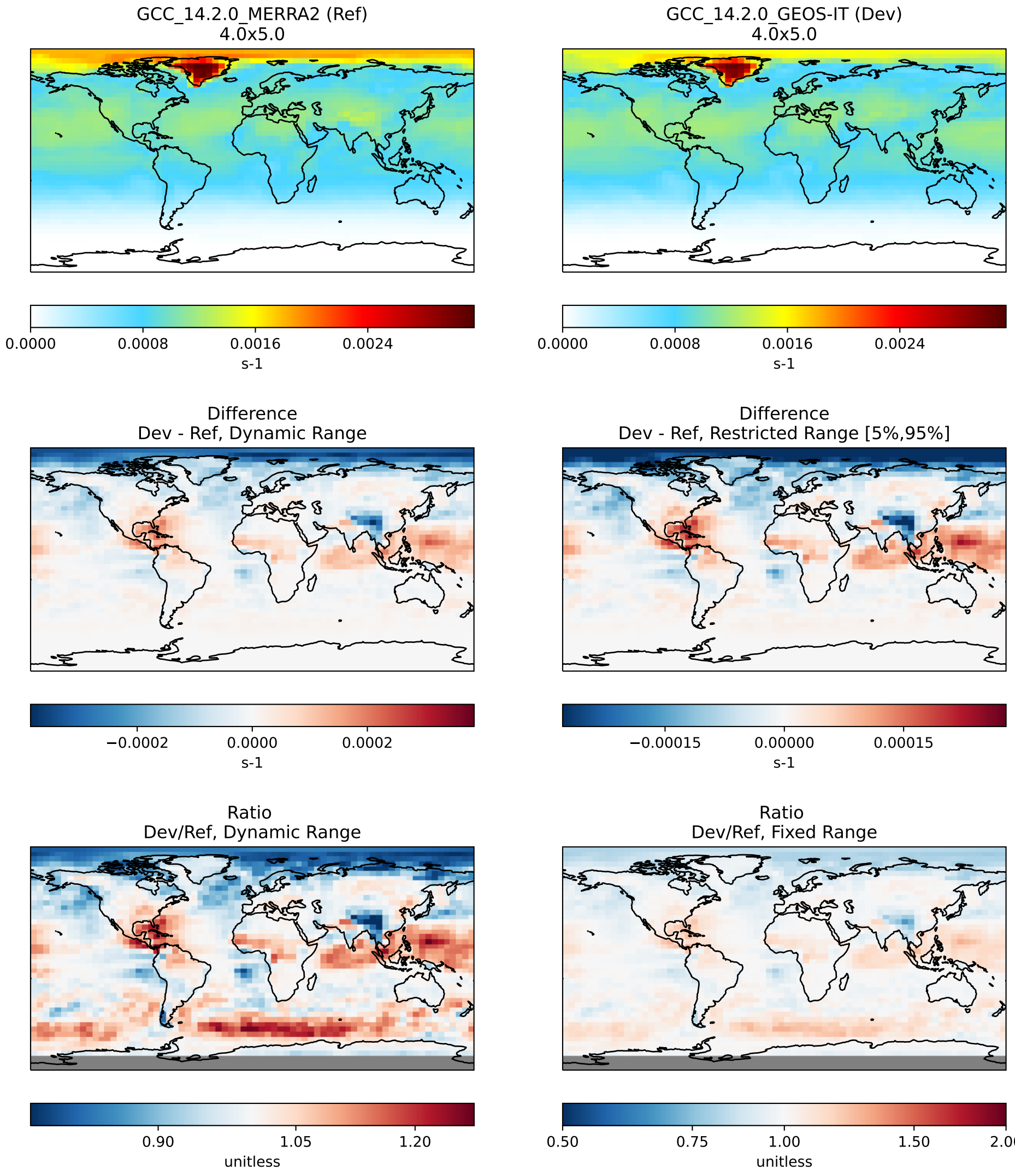
Ratio
Dev/Ref, Fixed Range



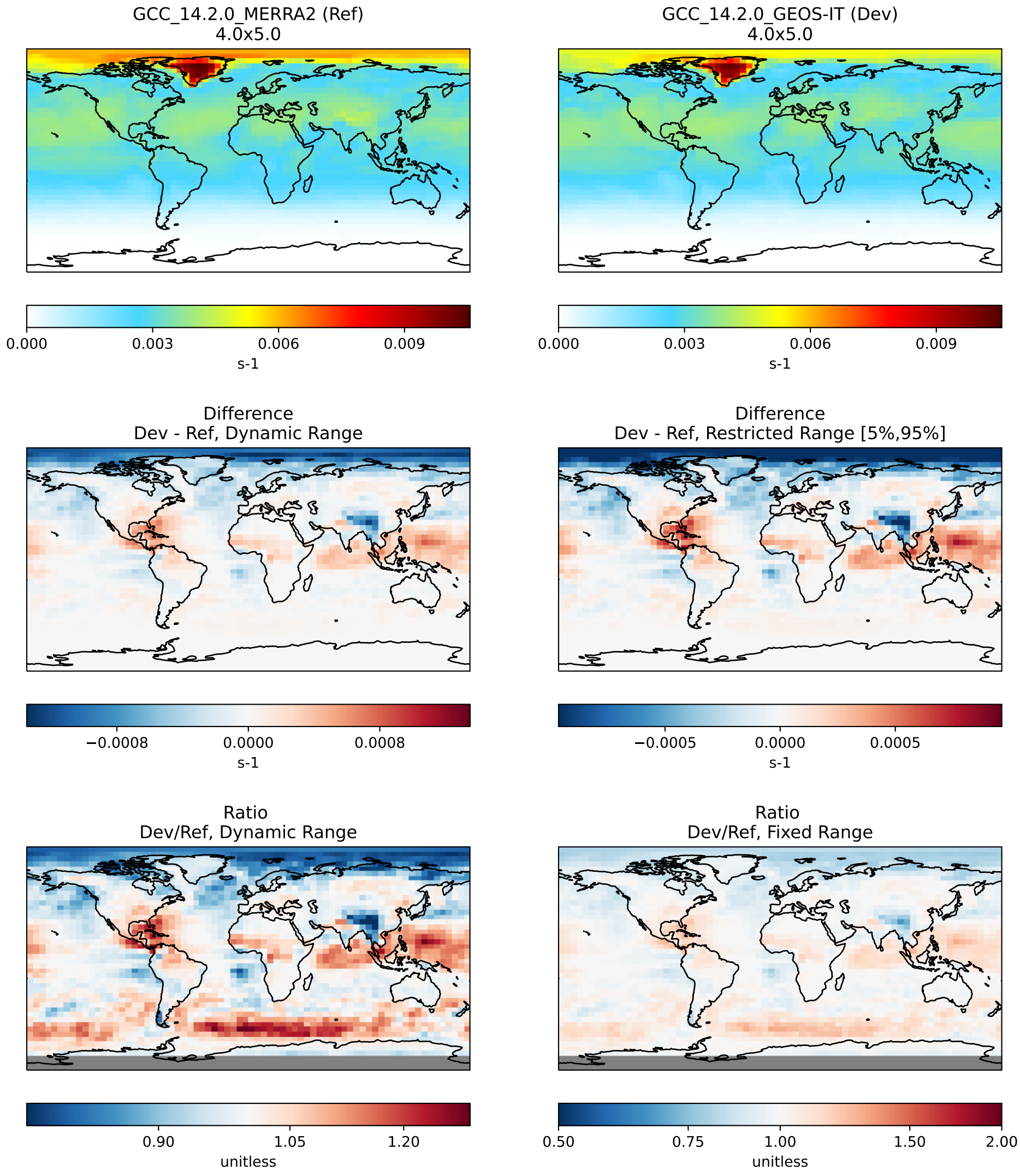
Jval_IO


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00
0.05
0.10
0.15
0.20
0.25
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00
0.05
0.10
0.15
0.20
0.25
s-1
Difference
Dev - Ref, Dynamic Range
−0.025
0.000
0.025
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.015
0.000
0.015
s-1
Ratio
Dev/Ref, Dynamic Range
0.8
1.2
1.6
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

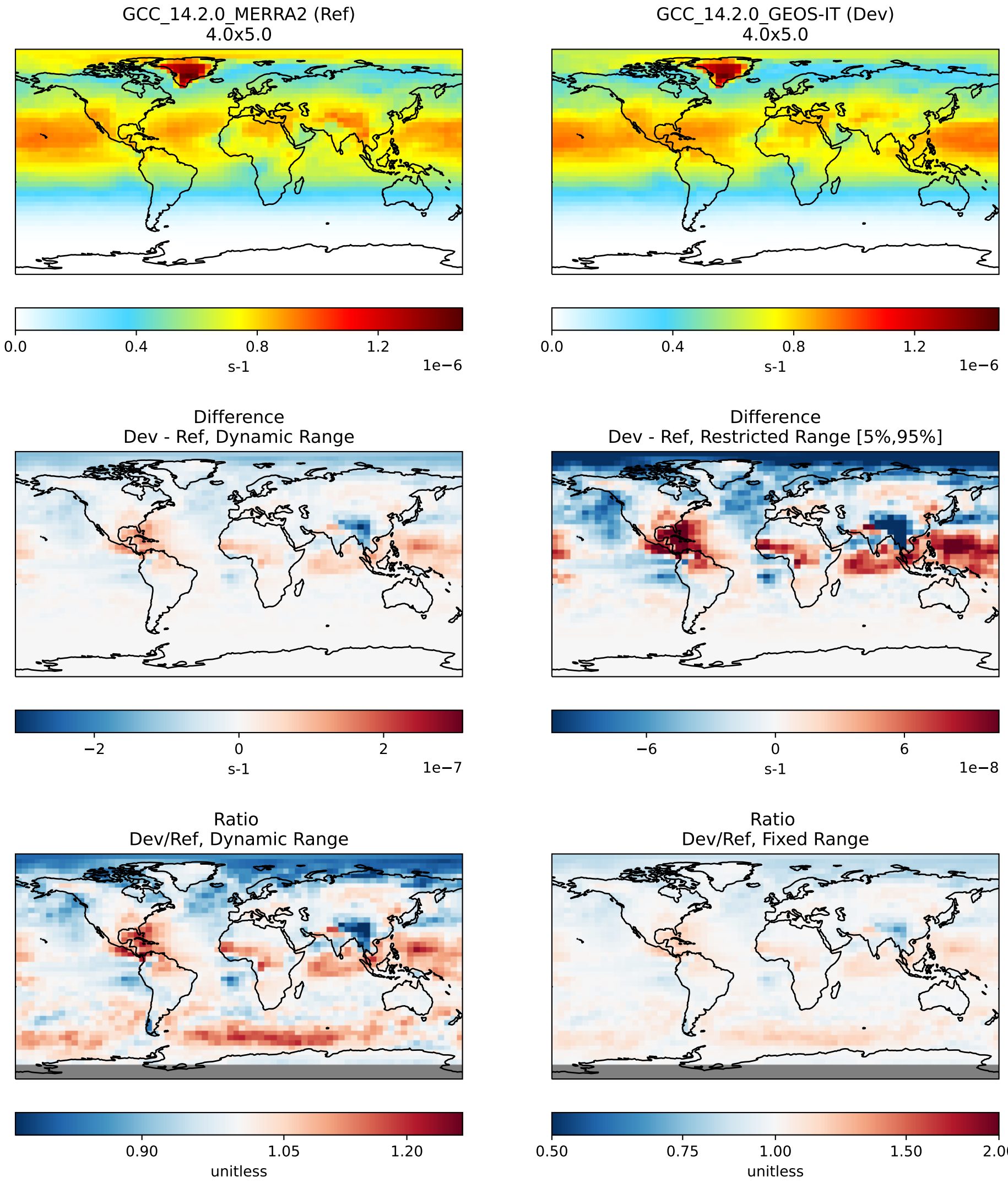
Jval_IONO


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0000
0.0008
0.0016
0.0024
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0000
0.0008
0.0016
0.0024
s-1
Difference
Dev - Ref, Dynamic Range
−0.0002
0.0000
0.0002
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.00015
0.00000
0.00015
s-1
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

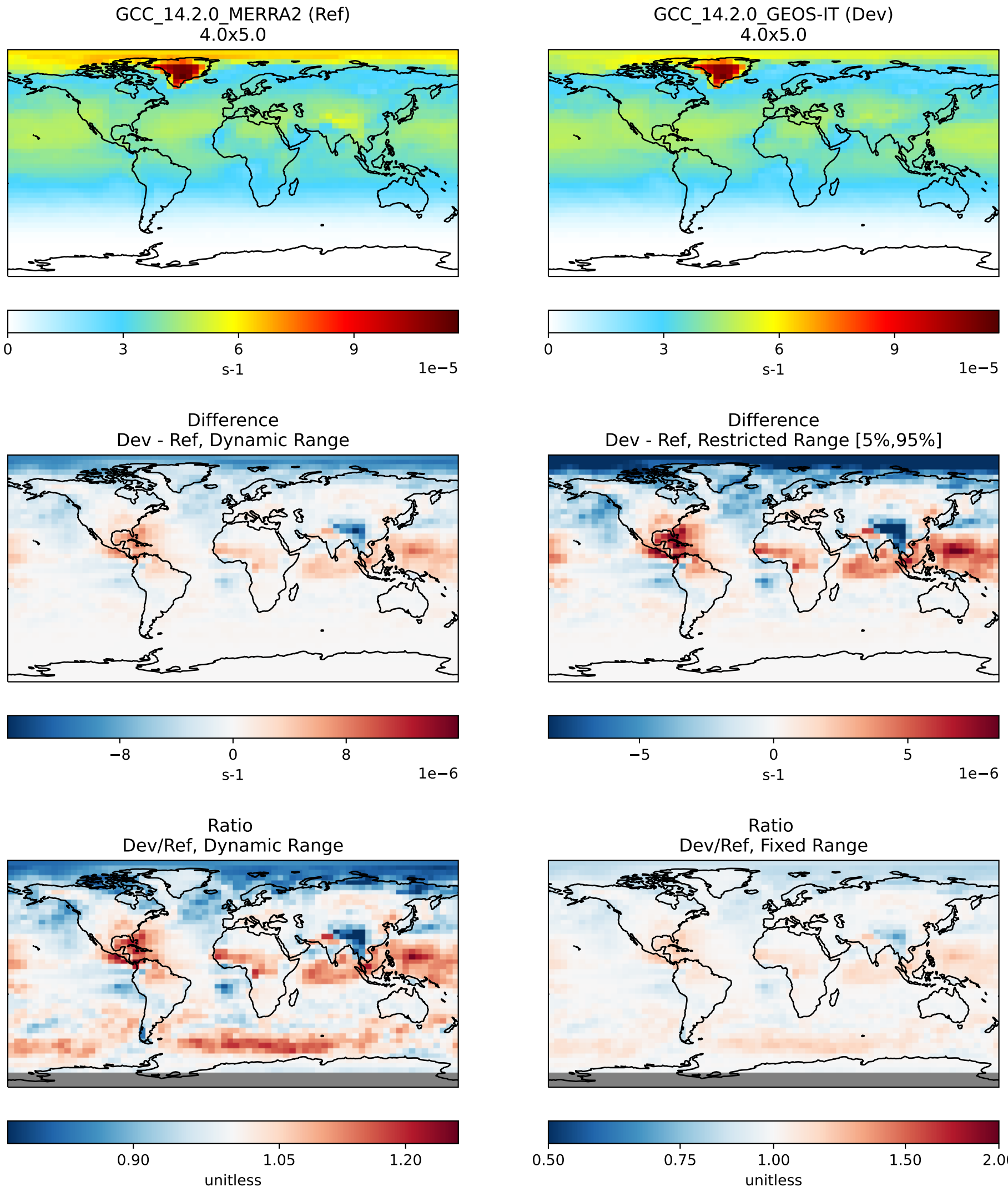
Jval_IONO2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.000
0.003
0.006
0.009
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.000
0.003
0.006
0.009
s-1
Difference
Dev - Ref, Dynamic Range
−0.0008
0.0000
0.0008
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.0005
0.0000
0.0005
s-1
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

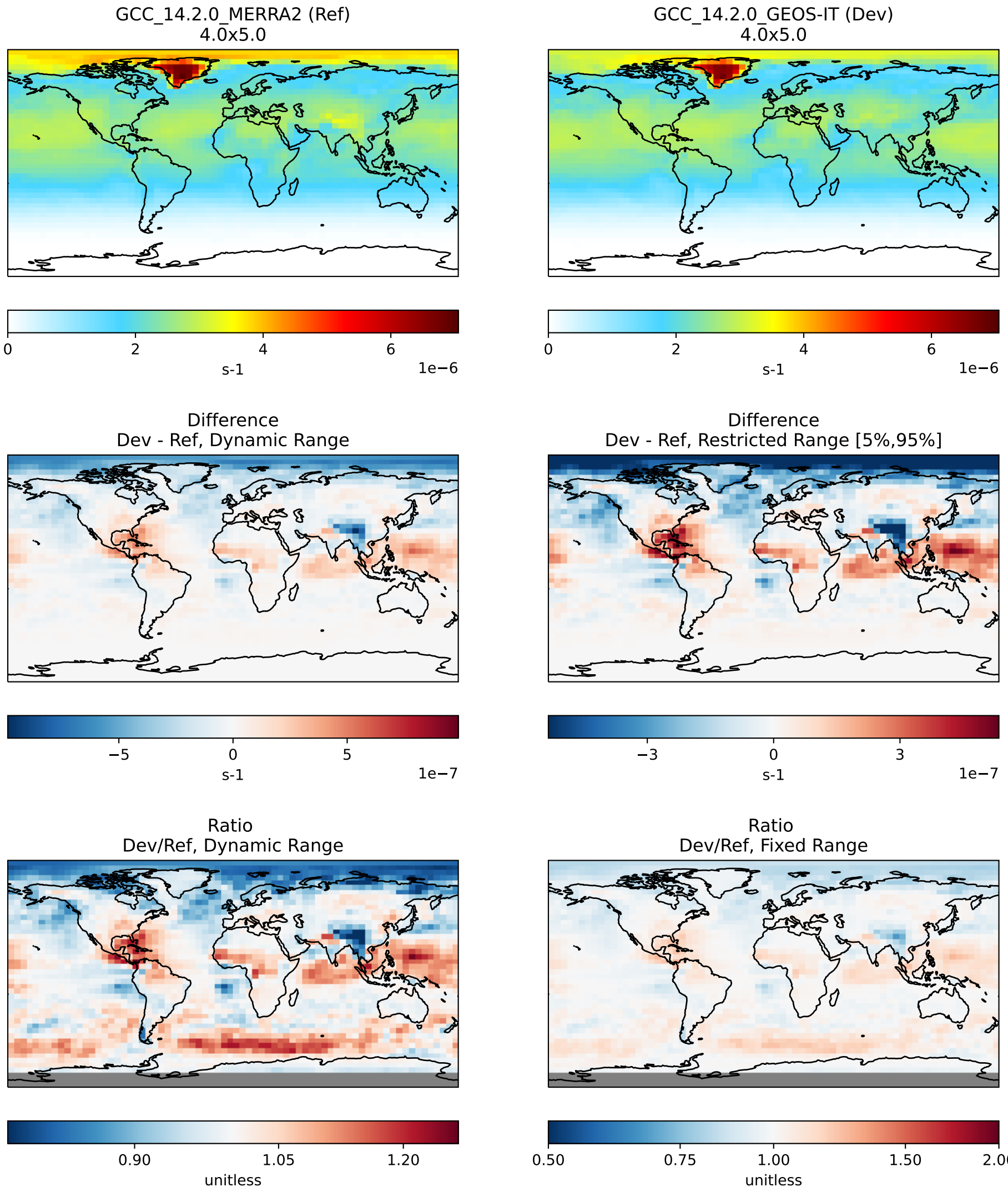
Jval_IPRNO3


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−2
0
2
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−6
0
6
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

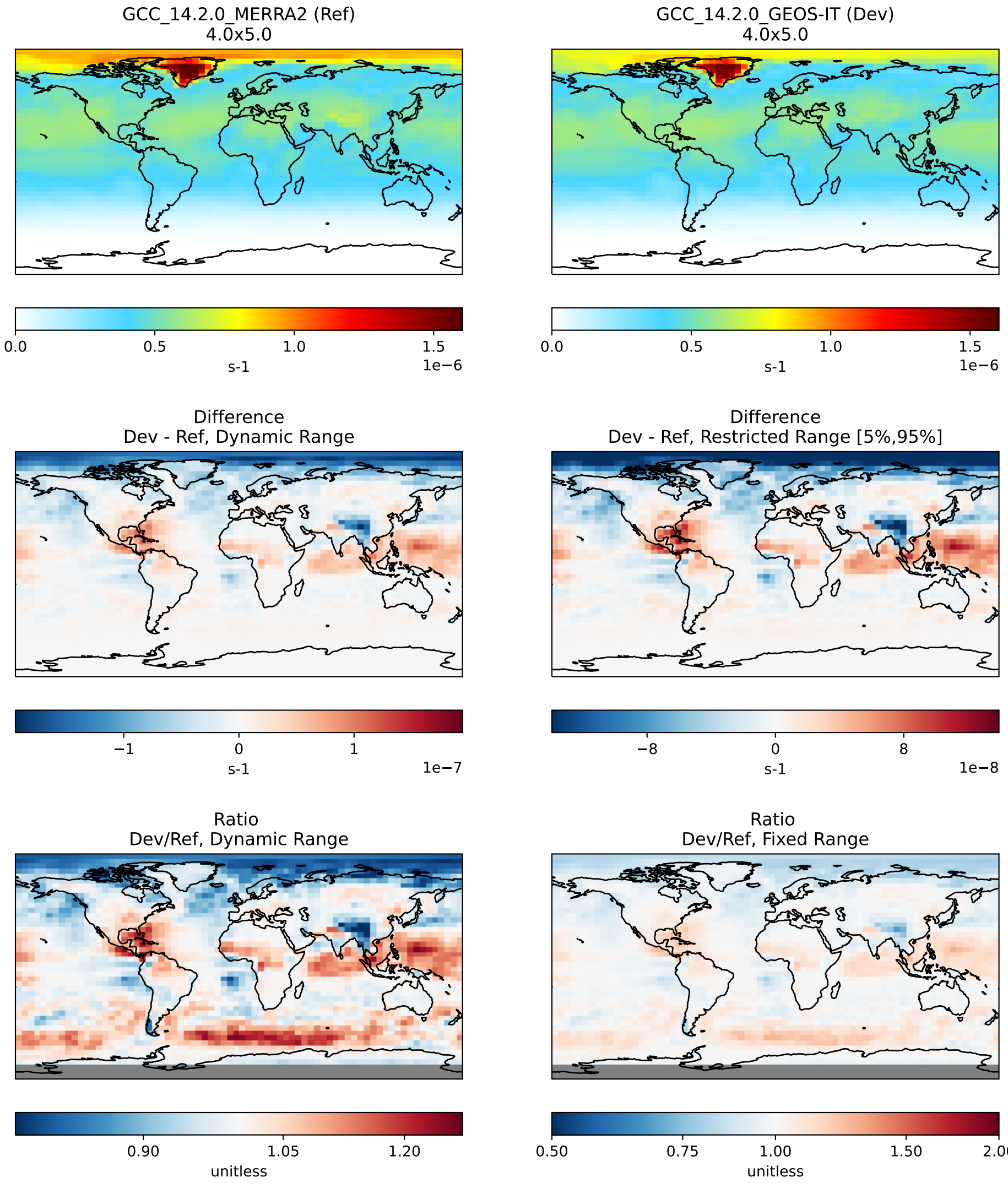
Jval_ITCN


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
3
6
9
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
3
6
9
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−8
0
8
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−5
0
5
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

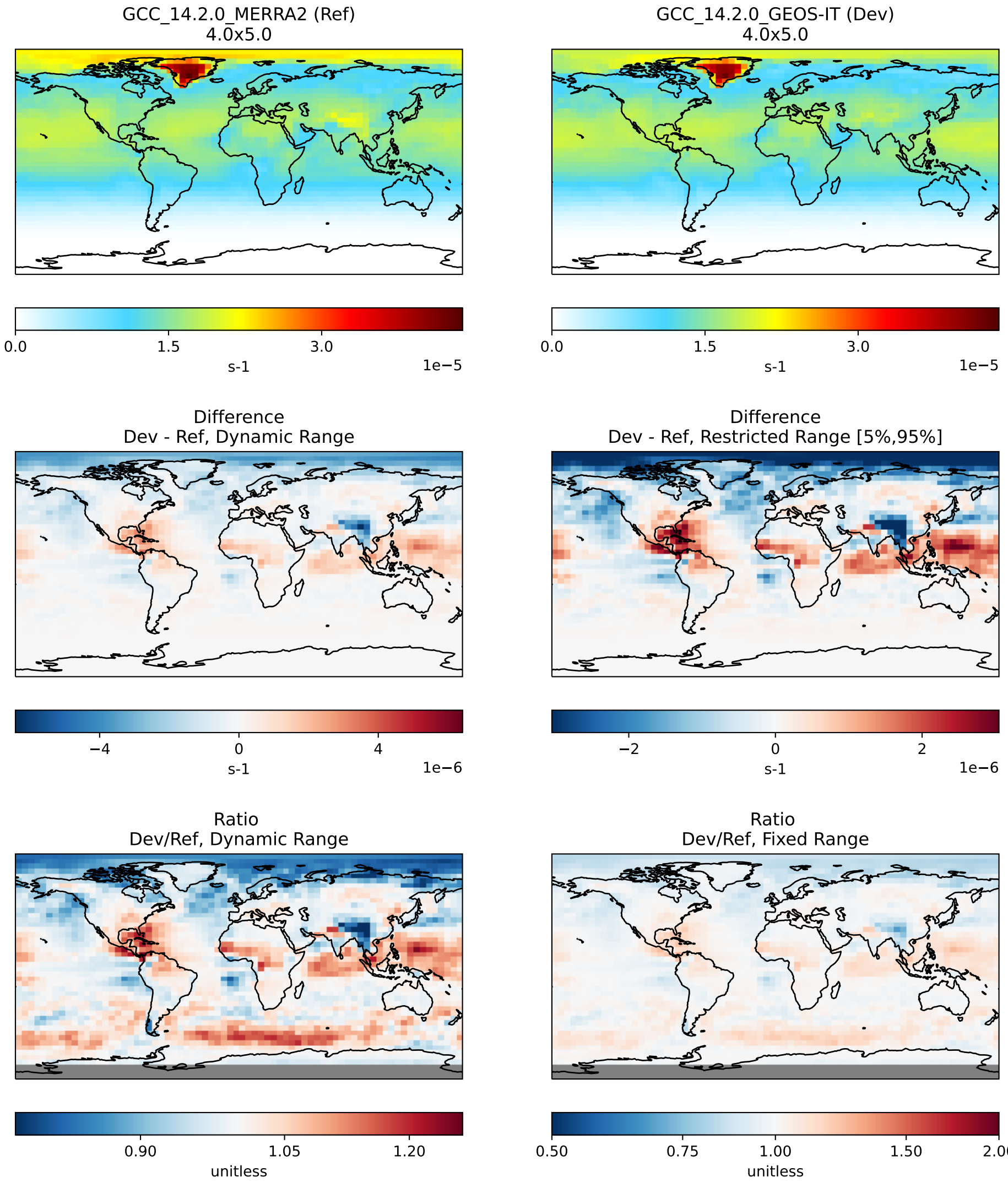
Jval_ITHN


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
2
4
6
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
2
4
6
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−5
0
5
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−3
0
3
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

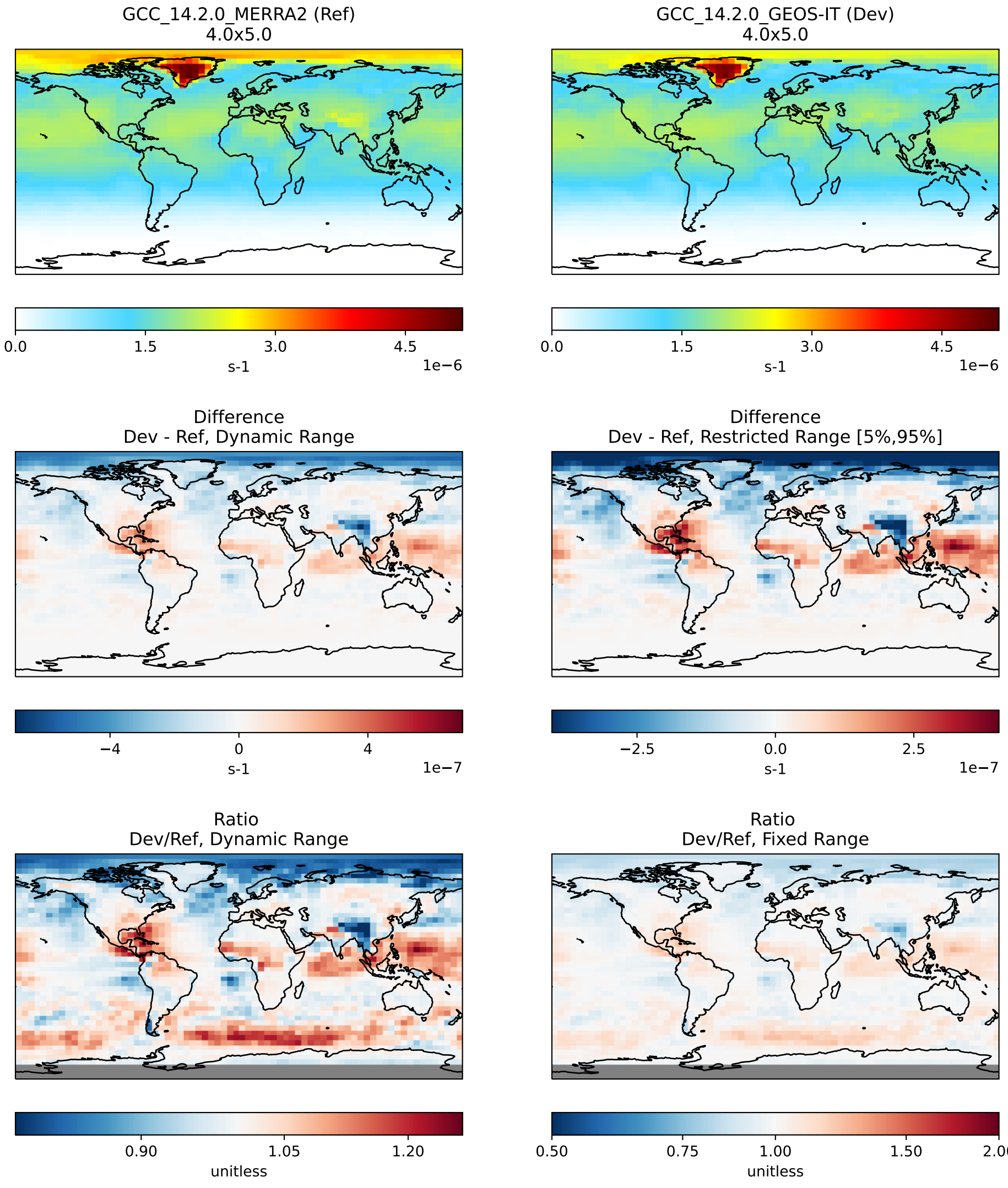
Jval_MACR


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−1
0
1
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−8
0
8
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

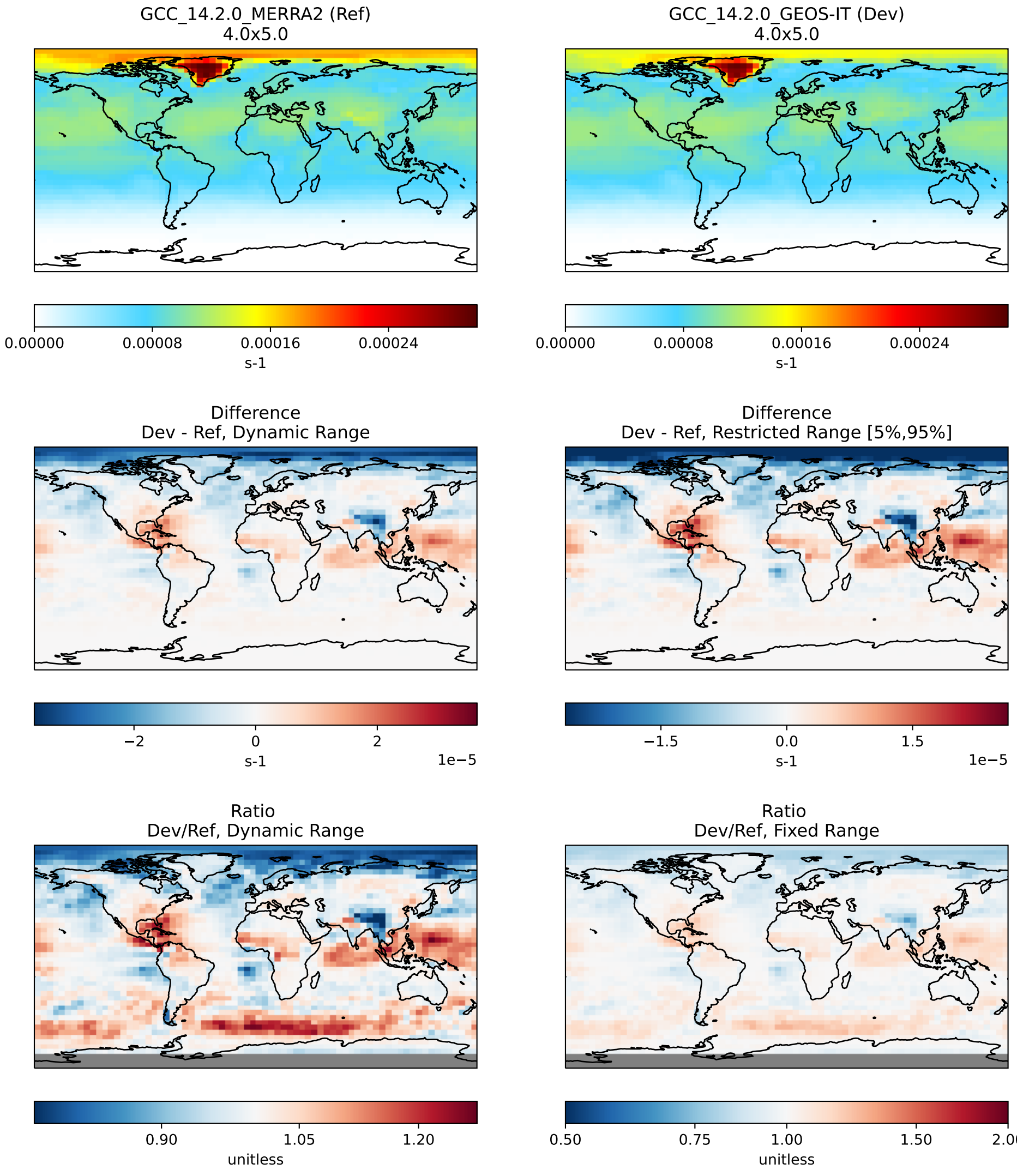
Jval_MACR1OOH



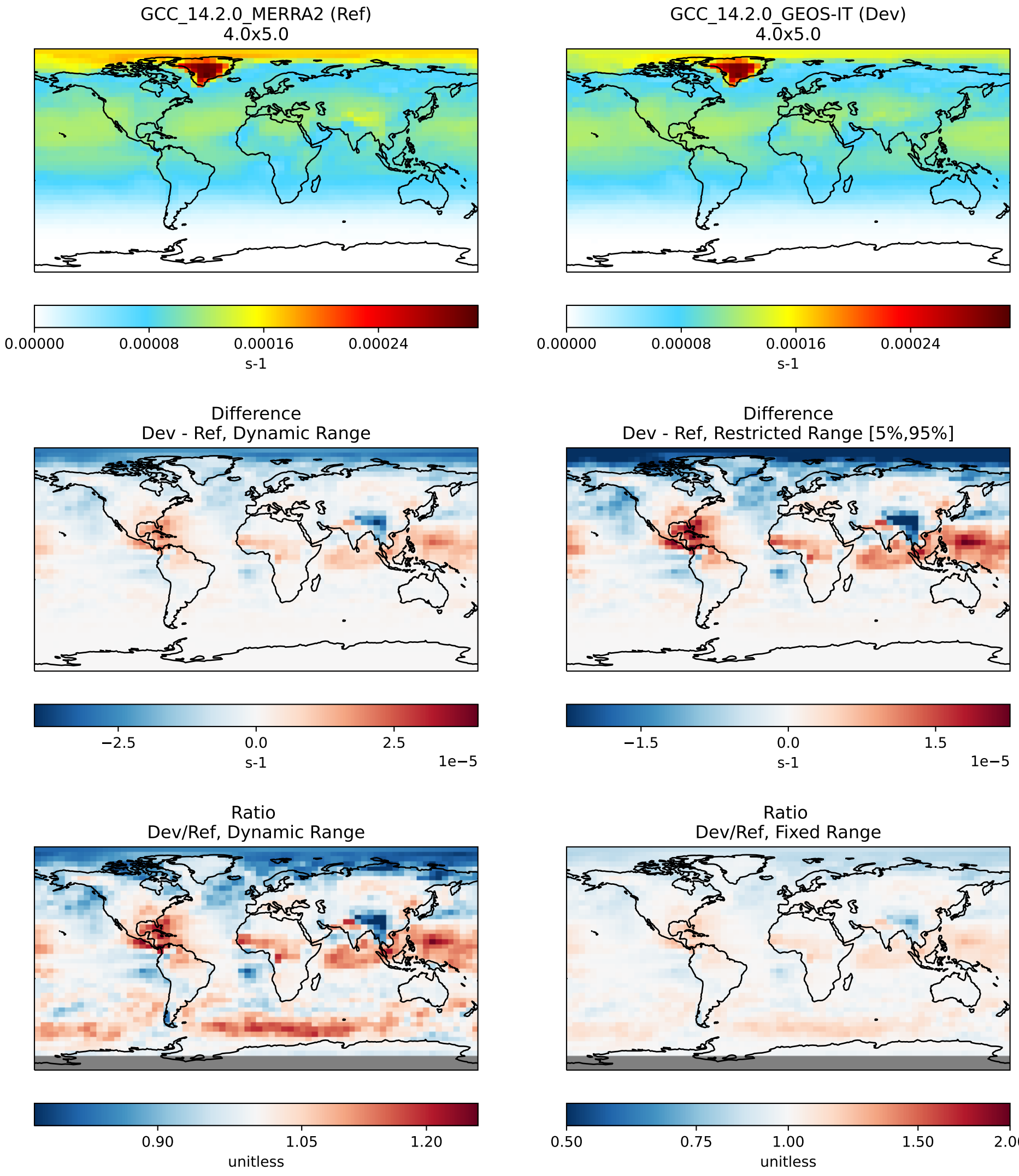
Jval_MAP


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

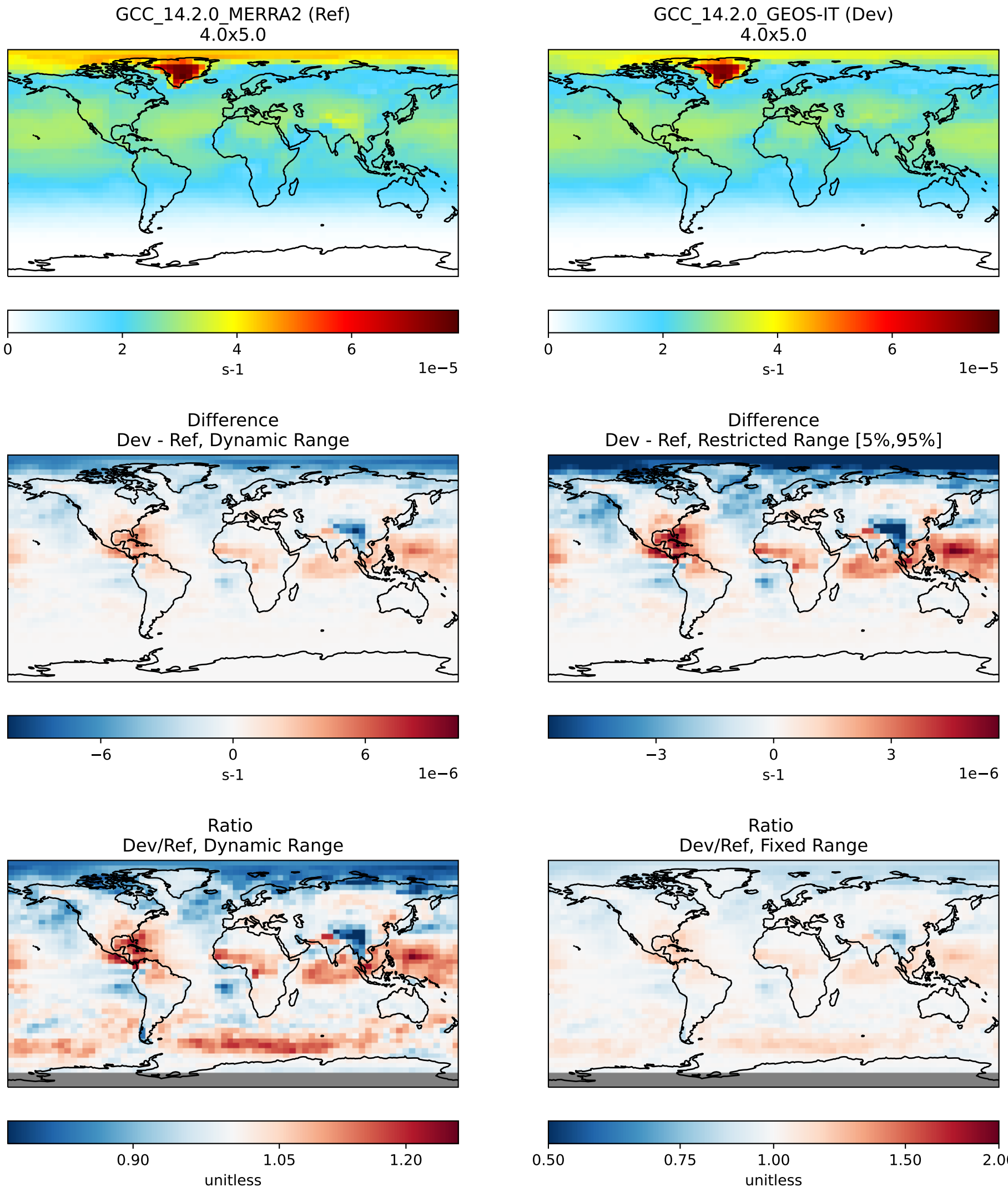
Jval_MCRENOL



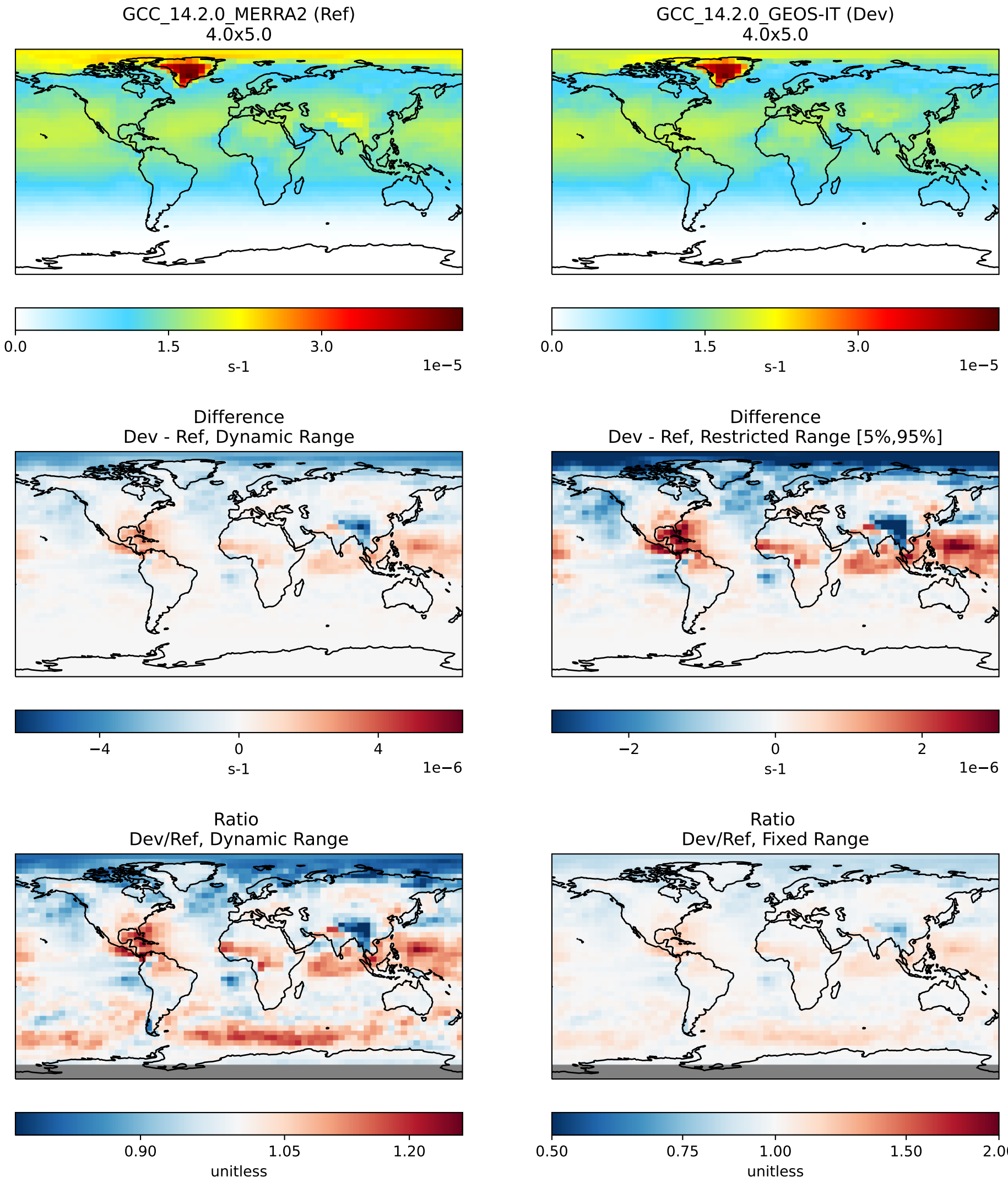
Jval_MCRHN


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00000
0.00008
0.00016
0.00024
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00000
0.00008
0.00016
0.00024
s-1
Difference
Dev - Ref, Dynamic Range
−2.5
0.0
2.5
s-1
1e−5
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−5
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

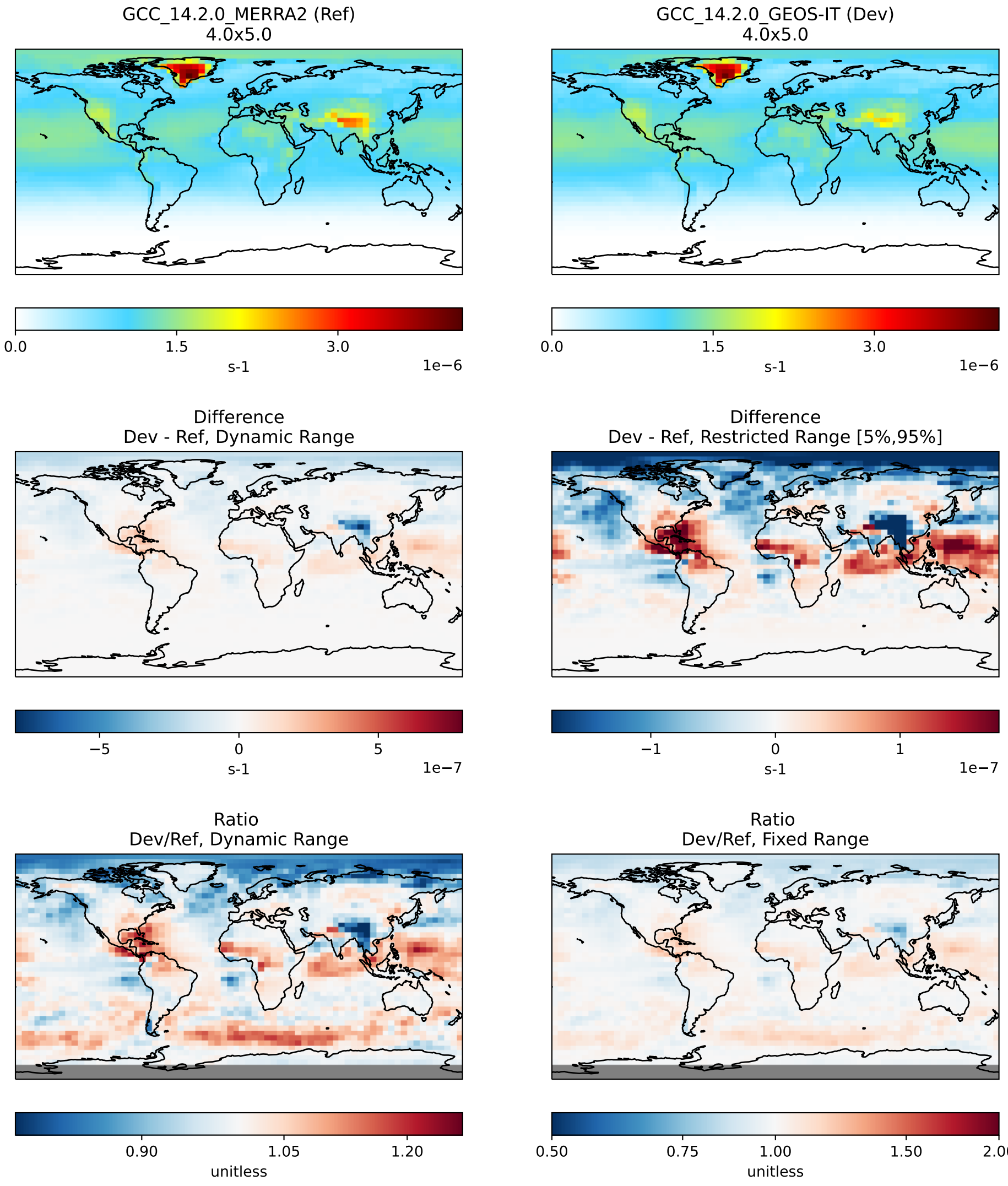
Jval_MCRHNB


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
2
4
6
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
2
4
6
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−6
0
6
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−3
0
3
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

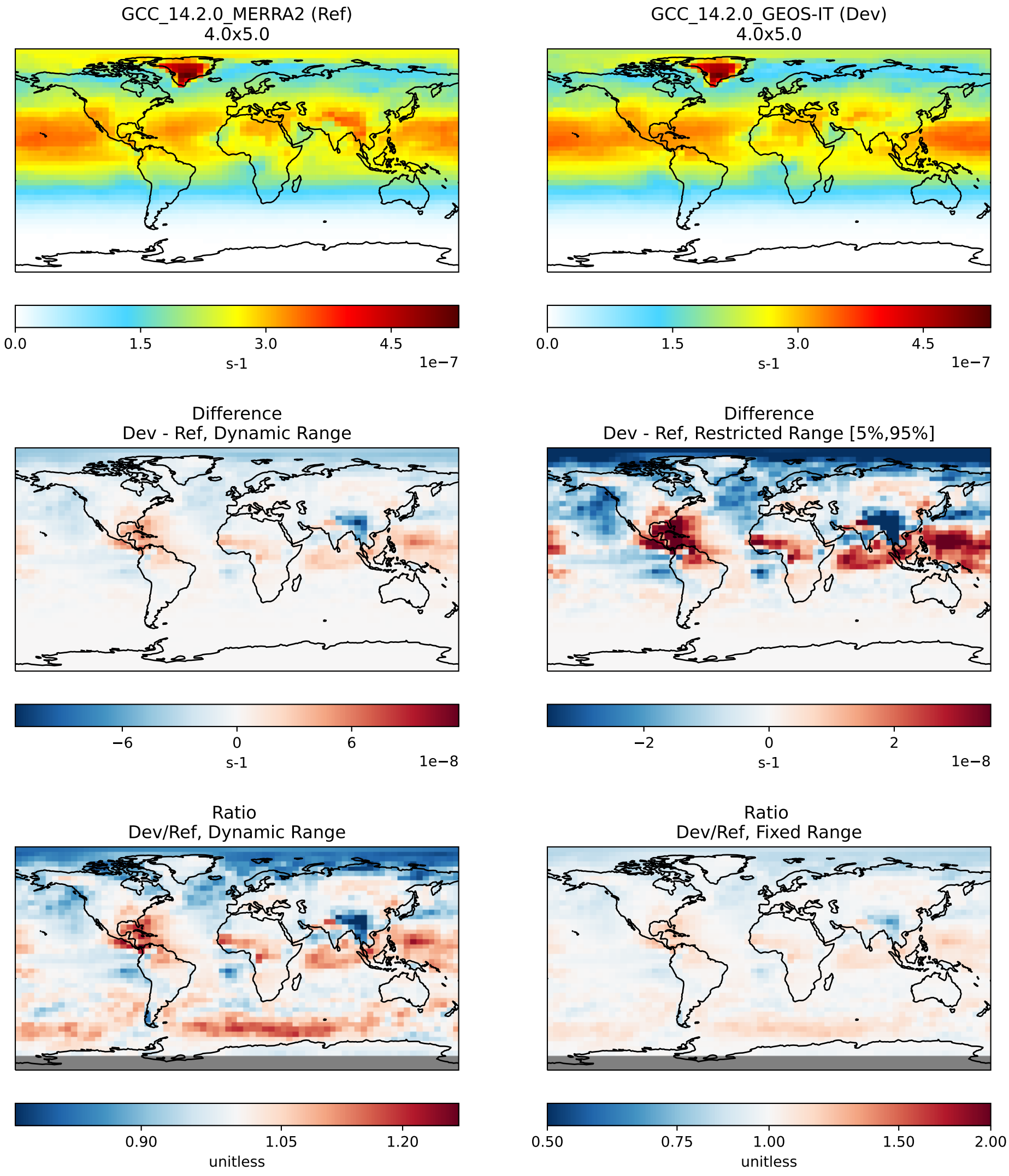
Jval_MCRHP


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−2
0
2
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

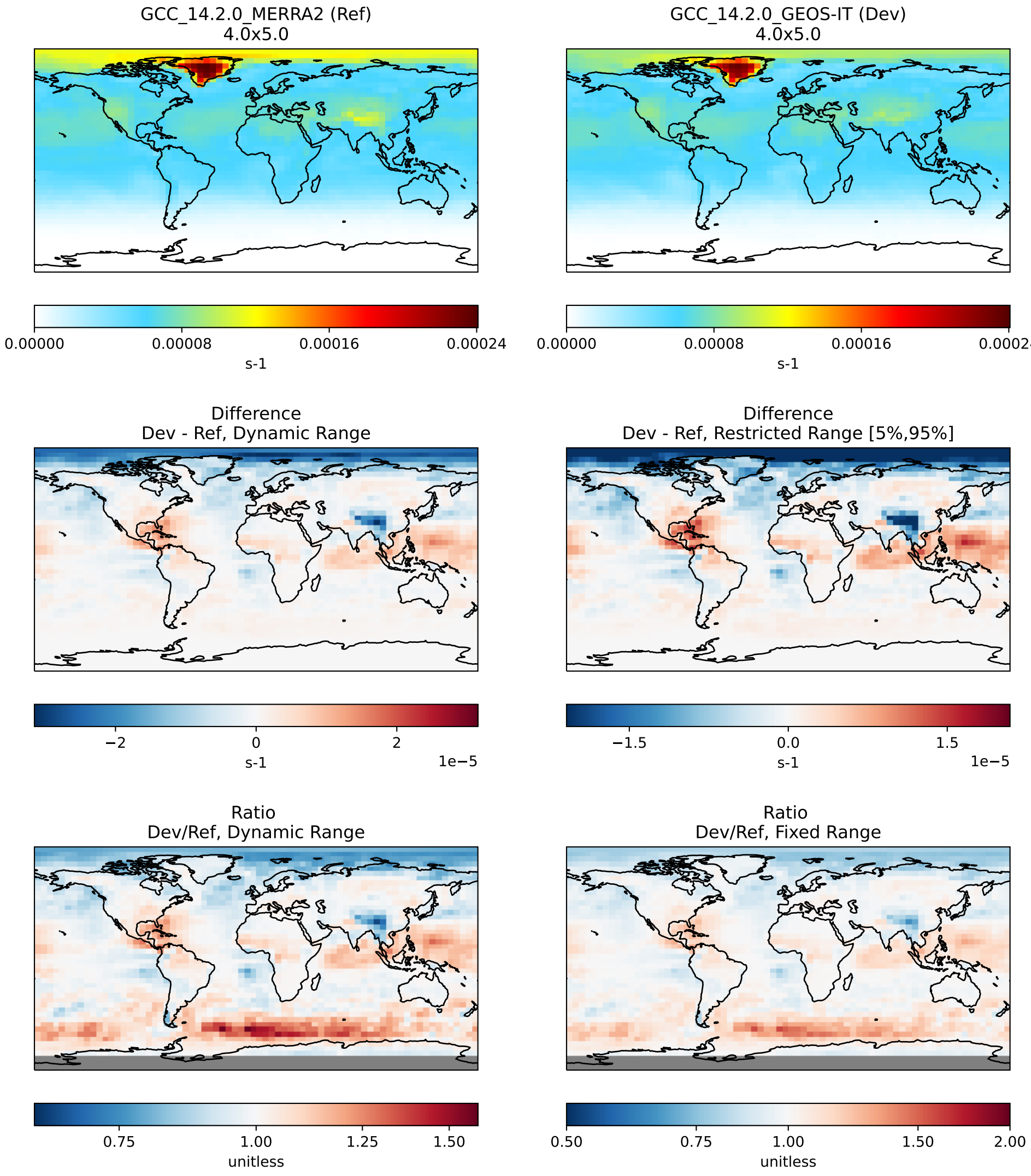
Jval_MEK


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−5
0
5
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−1
0
1
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

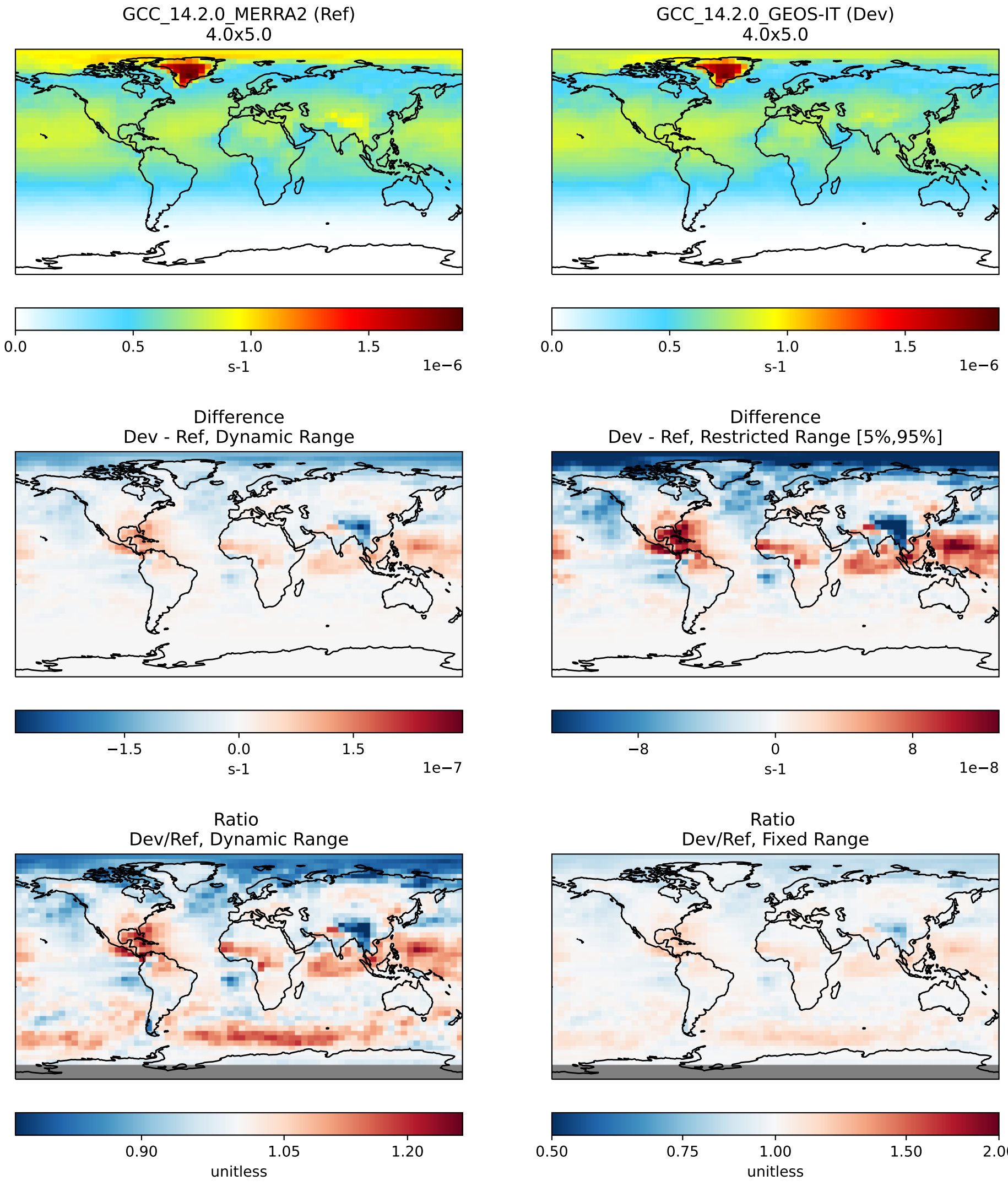
Jval_MENO3


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−7
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−7
Difference
Dev - Ref, Dynamic Range
−6
0
6
s-1
1e−8
Difference
Dev - Ref, Restricted Range [5%,95%]
−2
0
2
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

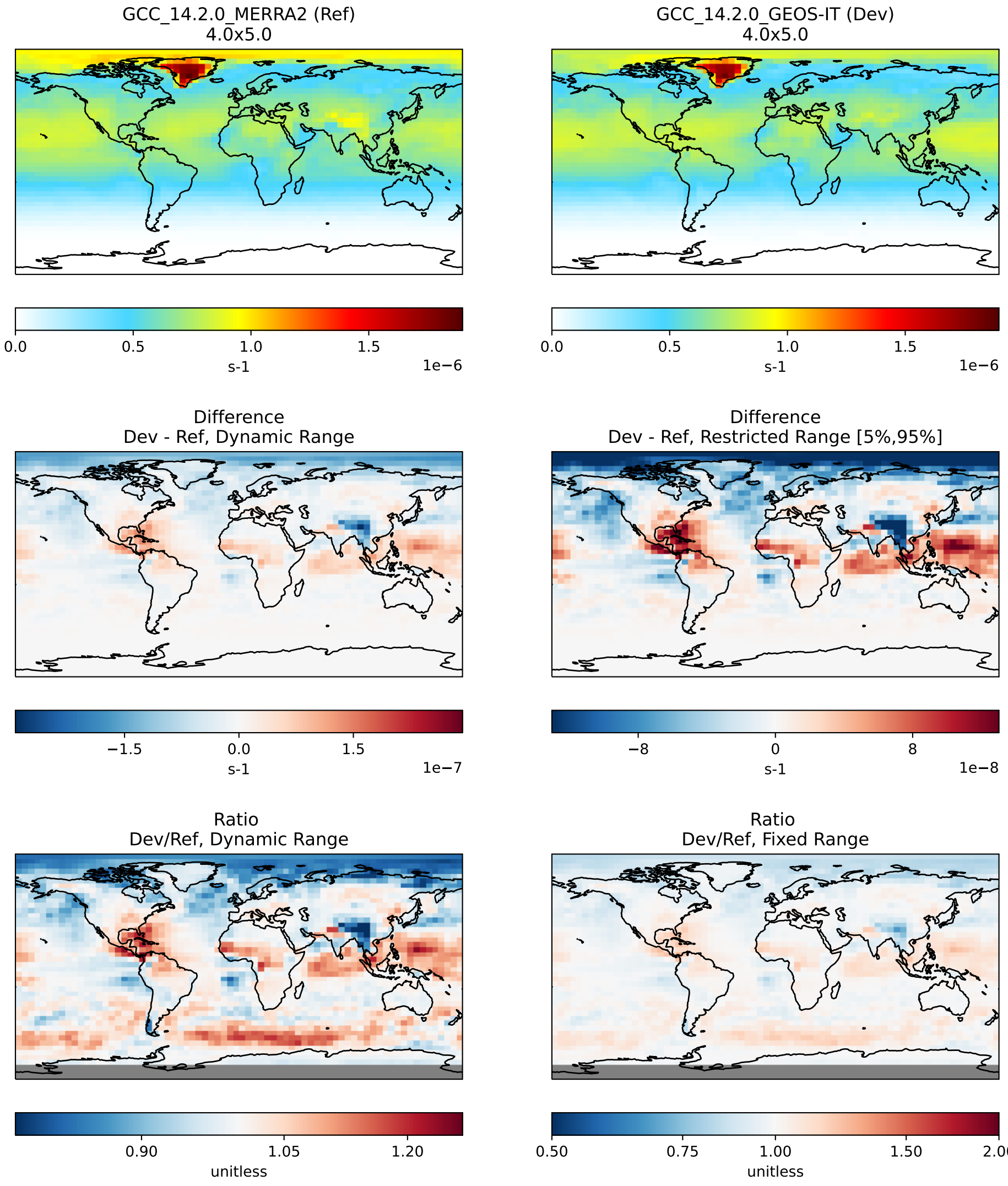
Jval_MGLY


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00000
0.00008
0.00016
0.00024
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00000
0.00008
0.00016
0.00024
s-1
Difference
Dev - Ref, Dynamic Range
−2
0
2
s-1
1e−5
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−5
Ratio
Dev/Ref, Dynamic Range
0.75
1.00
1.25
1.50
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

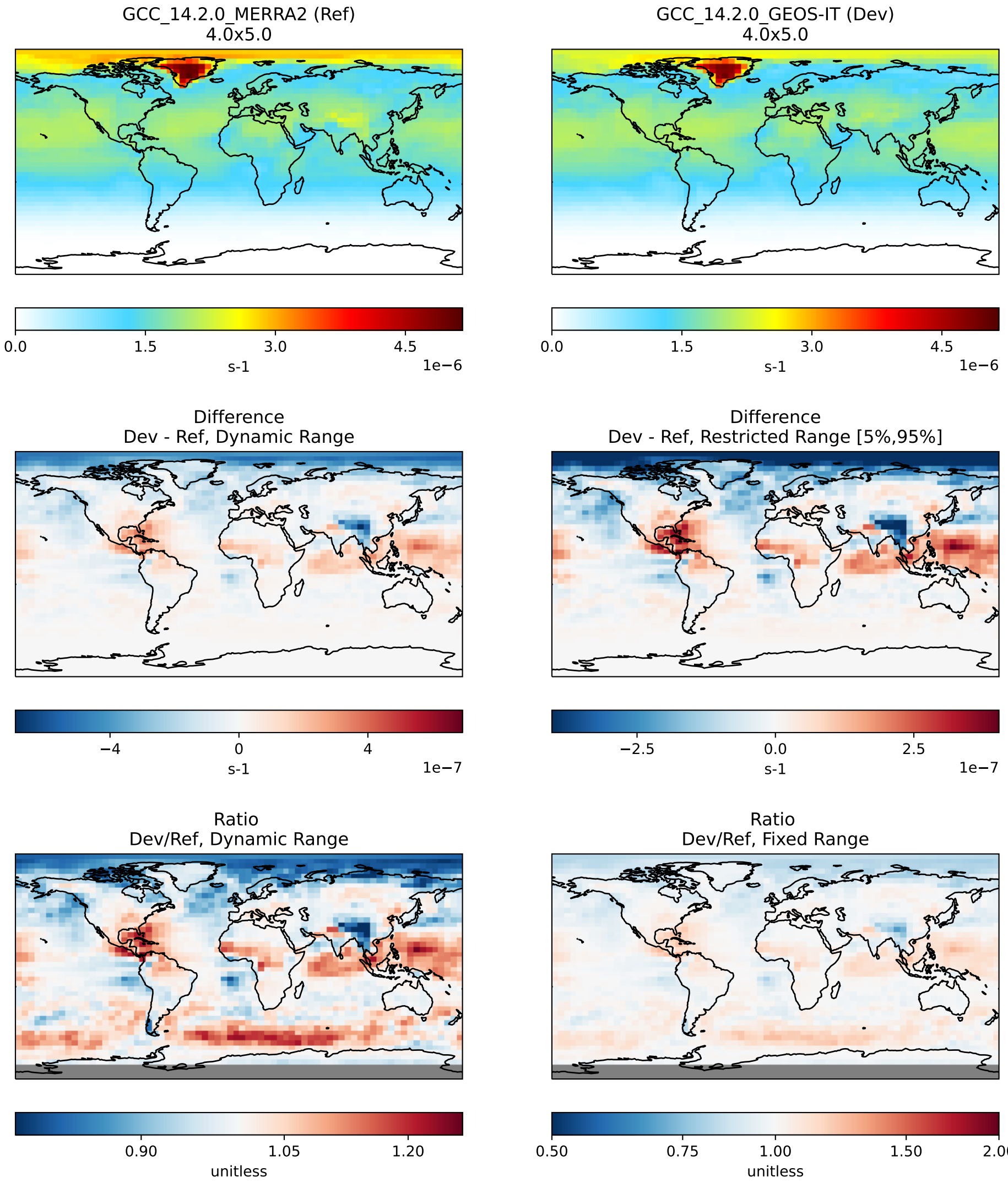
Jval_MONITS


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−1.5
0.0
1.5
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−8
0
8
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

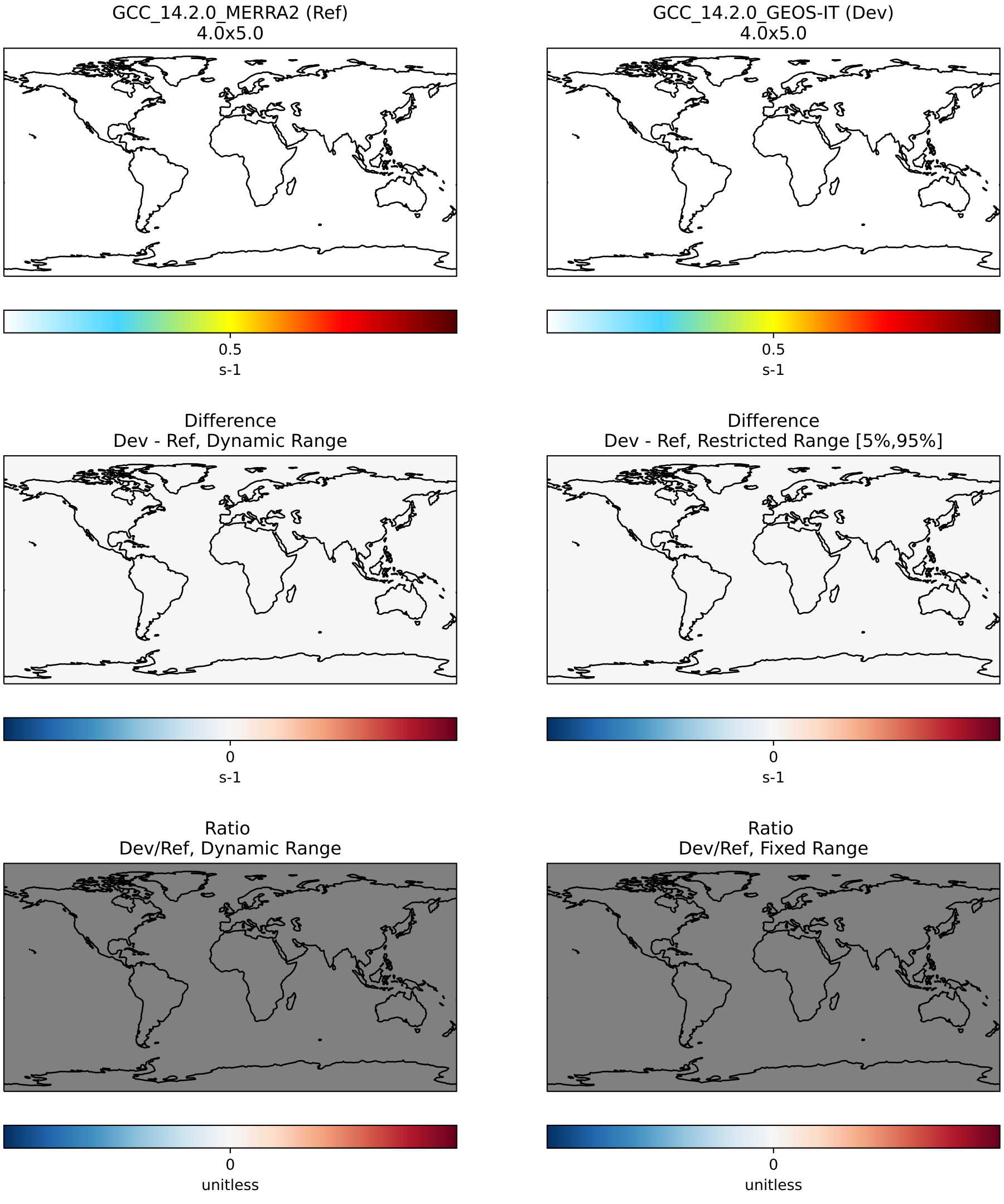
Jval_MONITU


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.5
1.0
1.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−1.5
0.0
1.5
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−8
0
8
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

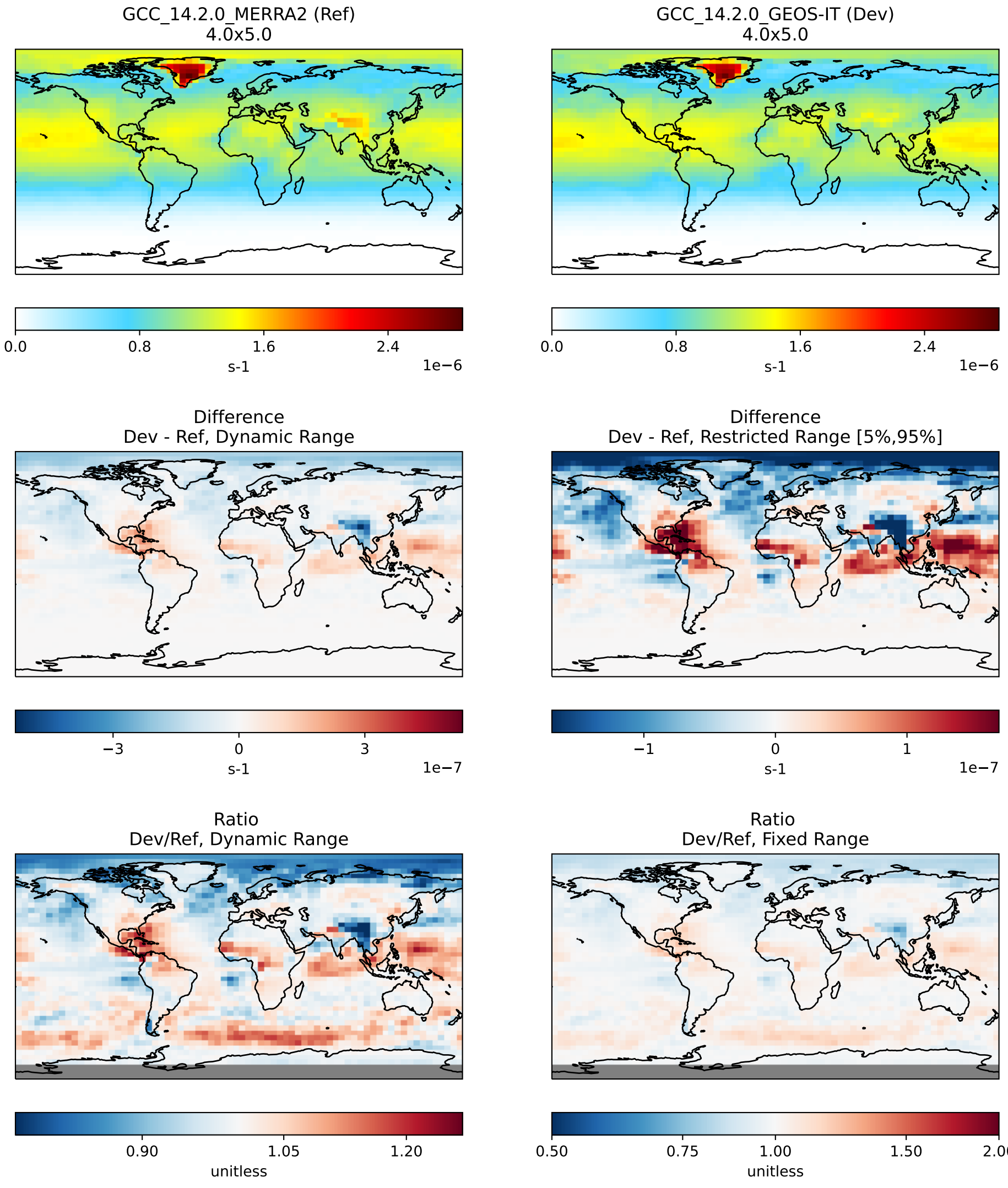
Jval_MP


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

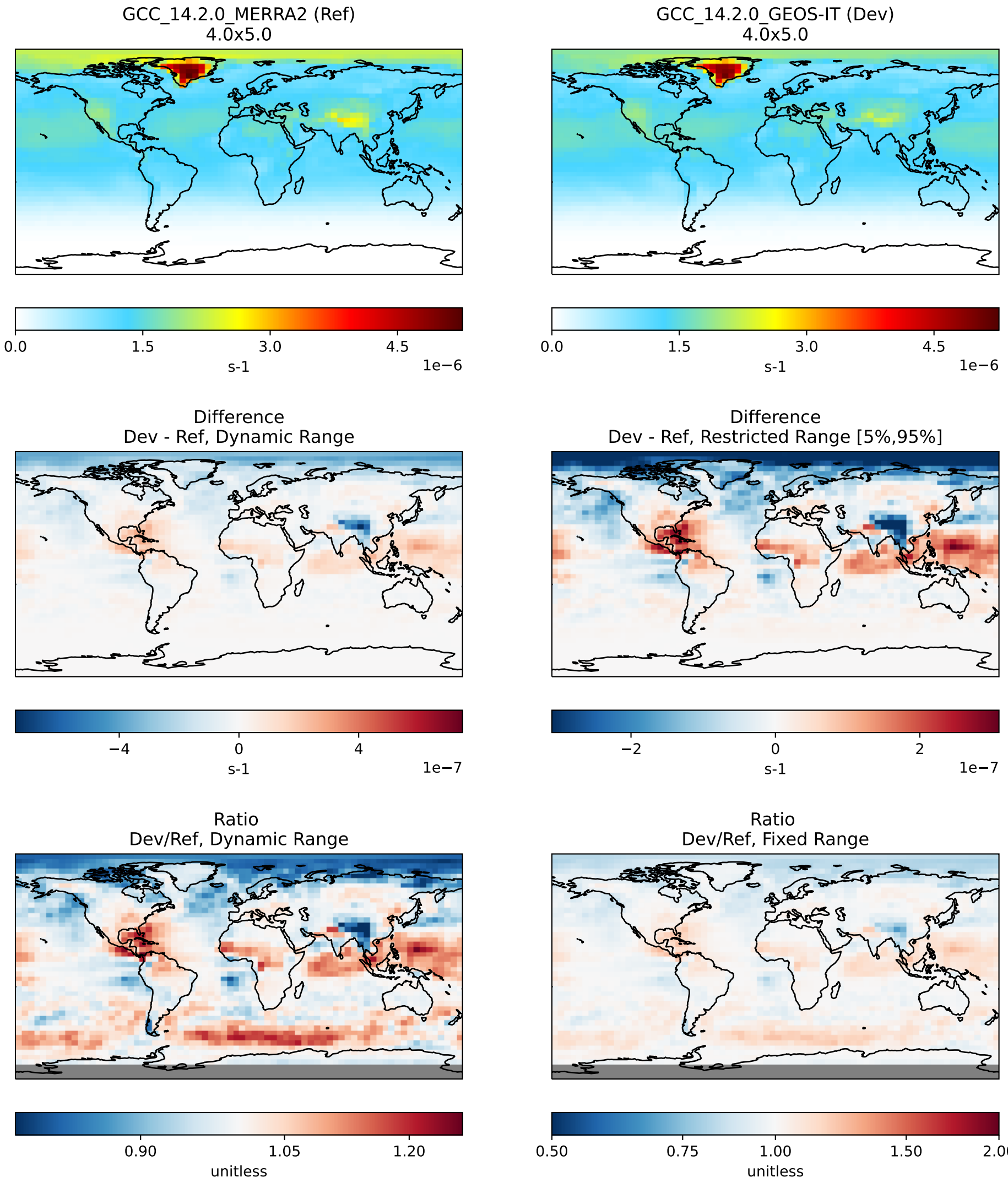
Jval_MPAN


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.5
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.5
s-1
Difference
Dev - Ref, Dynamic Range
0
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
0
s-1
Ratio
Dev/Ref, Dynamic Range
0
unitless
Ratio
Dev/Ref, Fixed Range
0
unitless

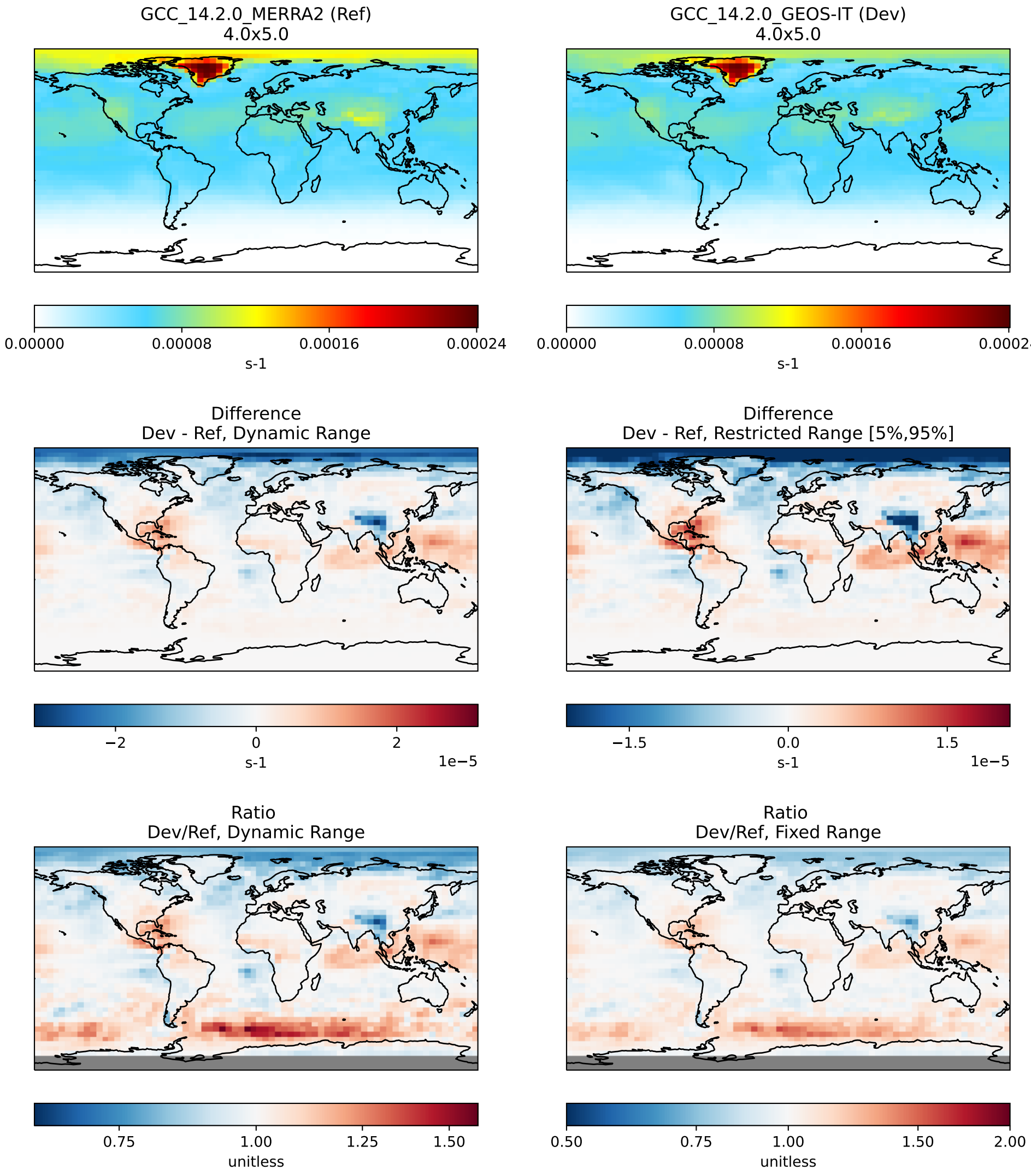
Jval_MPN


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.8
1.6
2.4
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.8
1.6
2.4
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−3
0
3
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−1
0
1
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

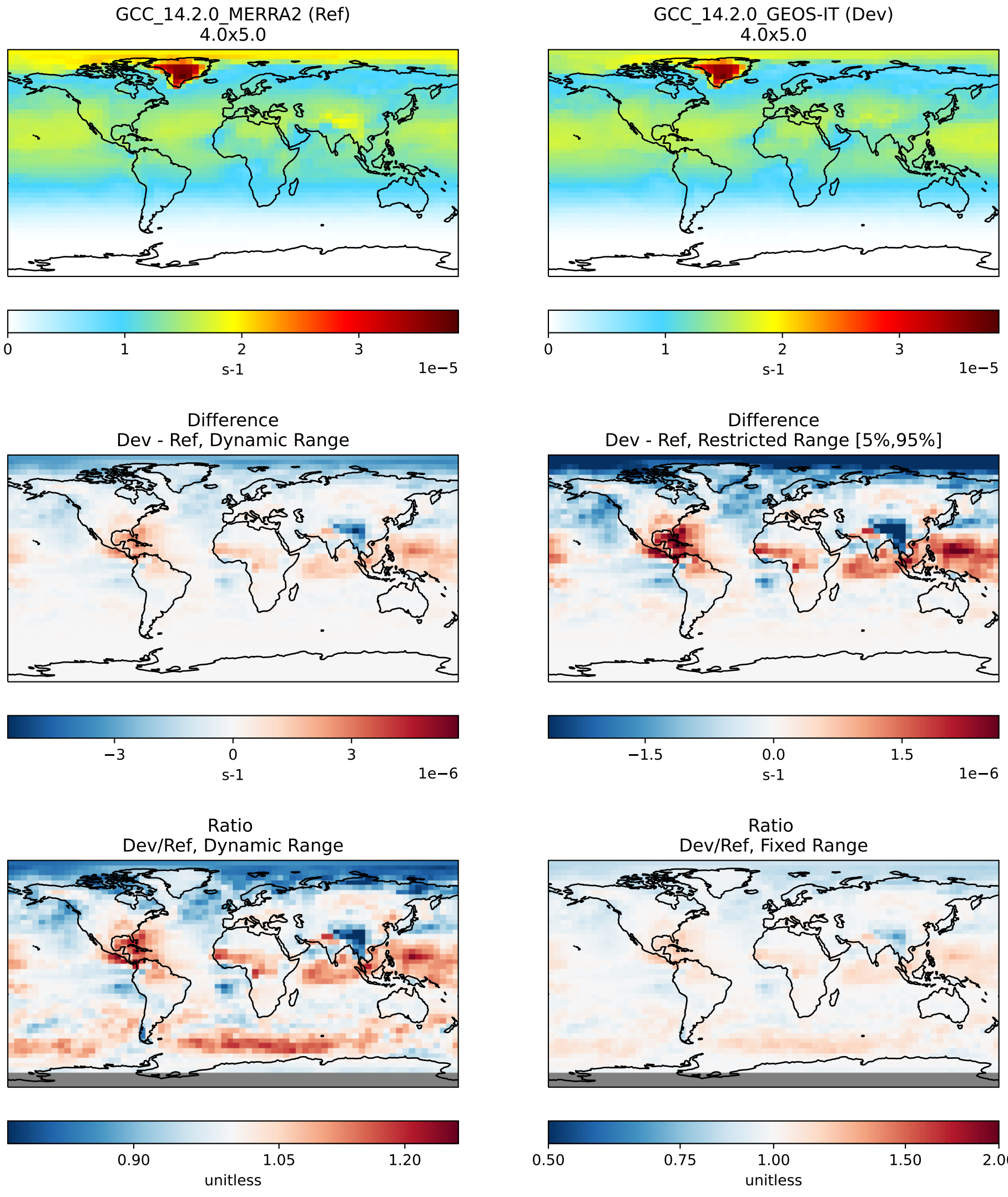
Jval_MVK


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2
0
2
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

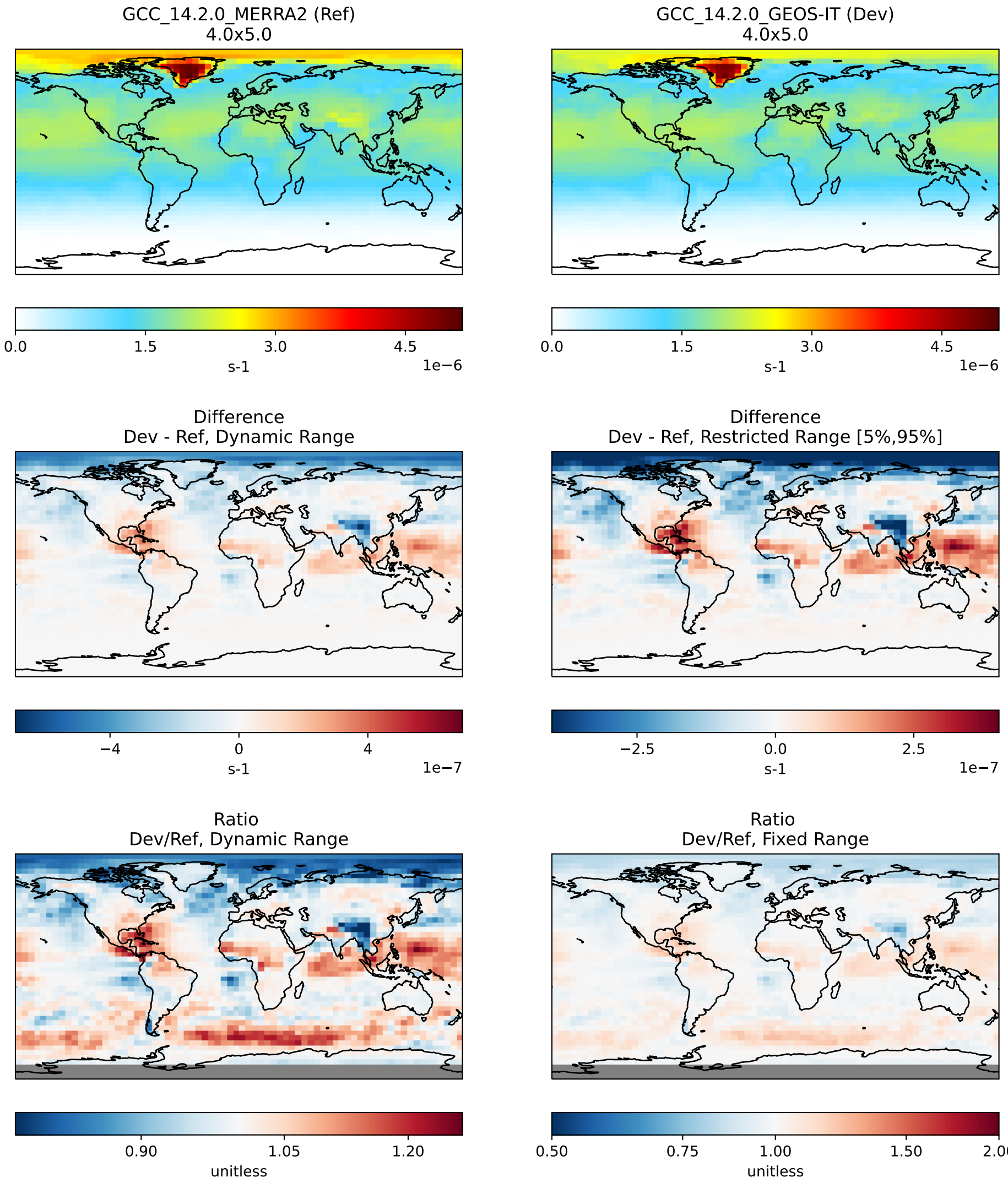
Jval_MVKHC


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00000
0.00008
0.00016
0.00024
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00000
0.00008
0.00016
0.00024
s-1
Difference
Dev - Ref, Dynamic Range
−2
0
2
s-1
1e−5
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−5
Ratio
Dev/Ref, Dynamic Range
0.75
1.00
1.25
1.50
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

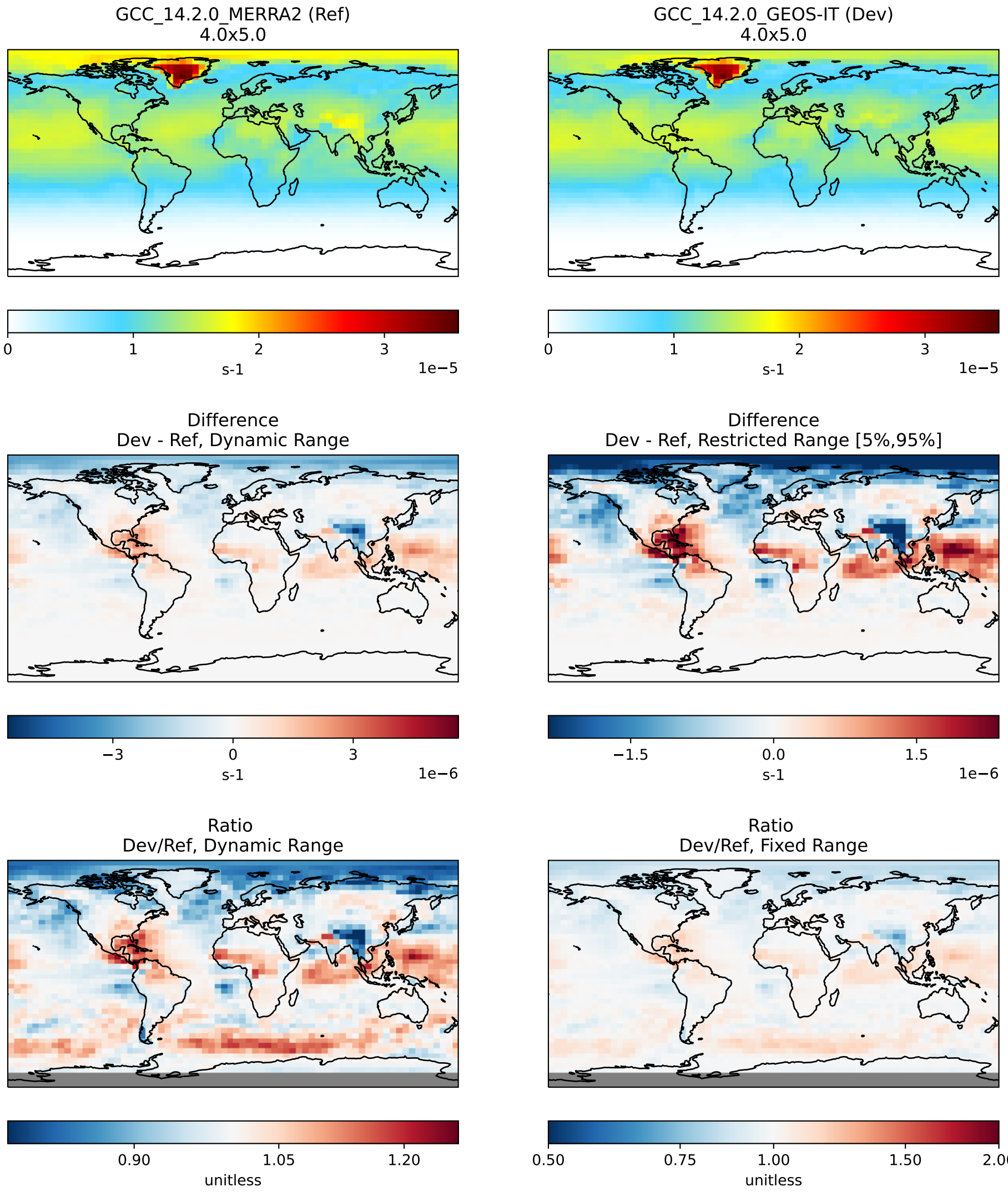
Jval_MVKHCB


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
1
2
3
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
1
2
3
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−3
0
3
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

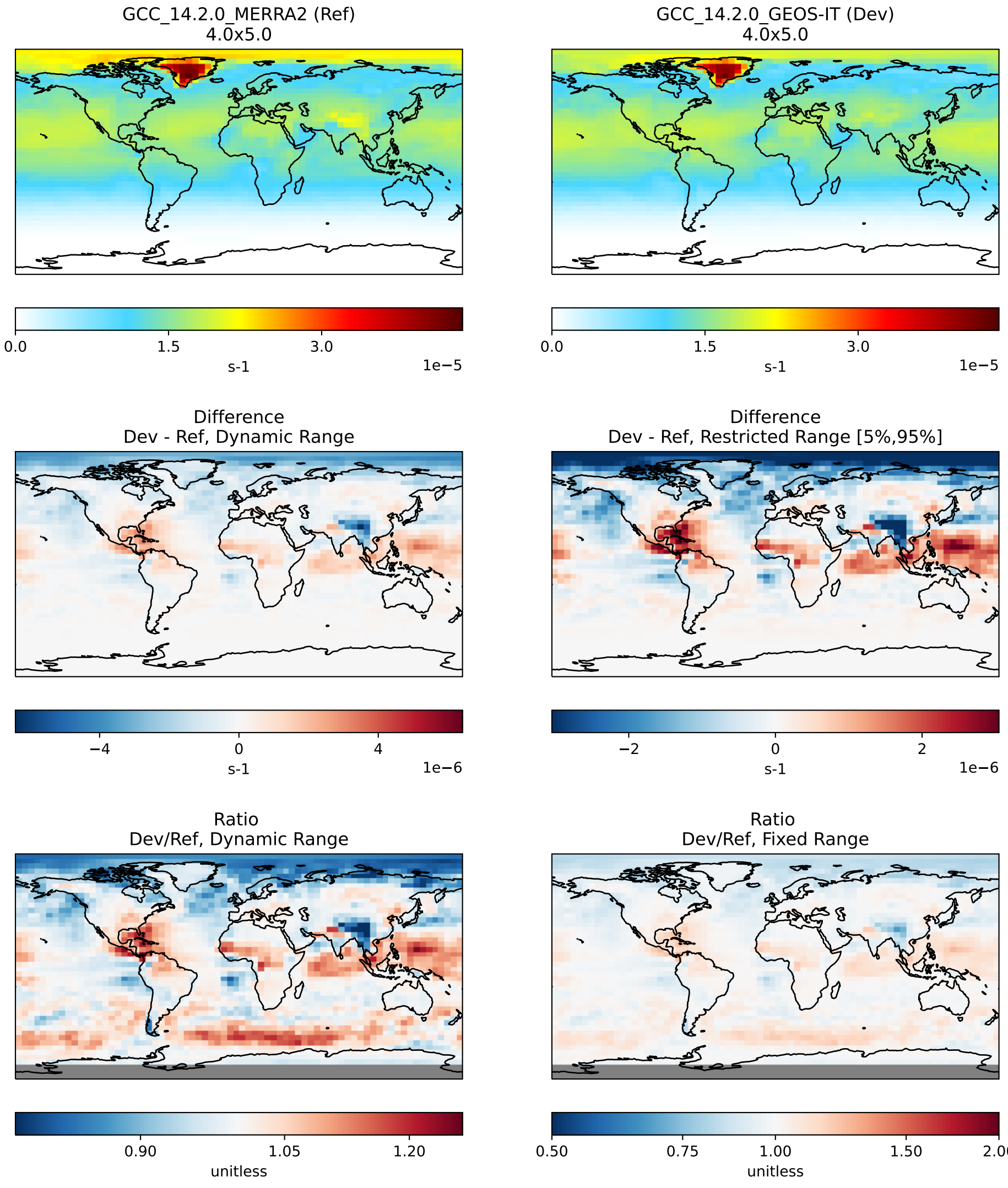
Jval_MVKHP


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

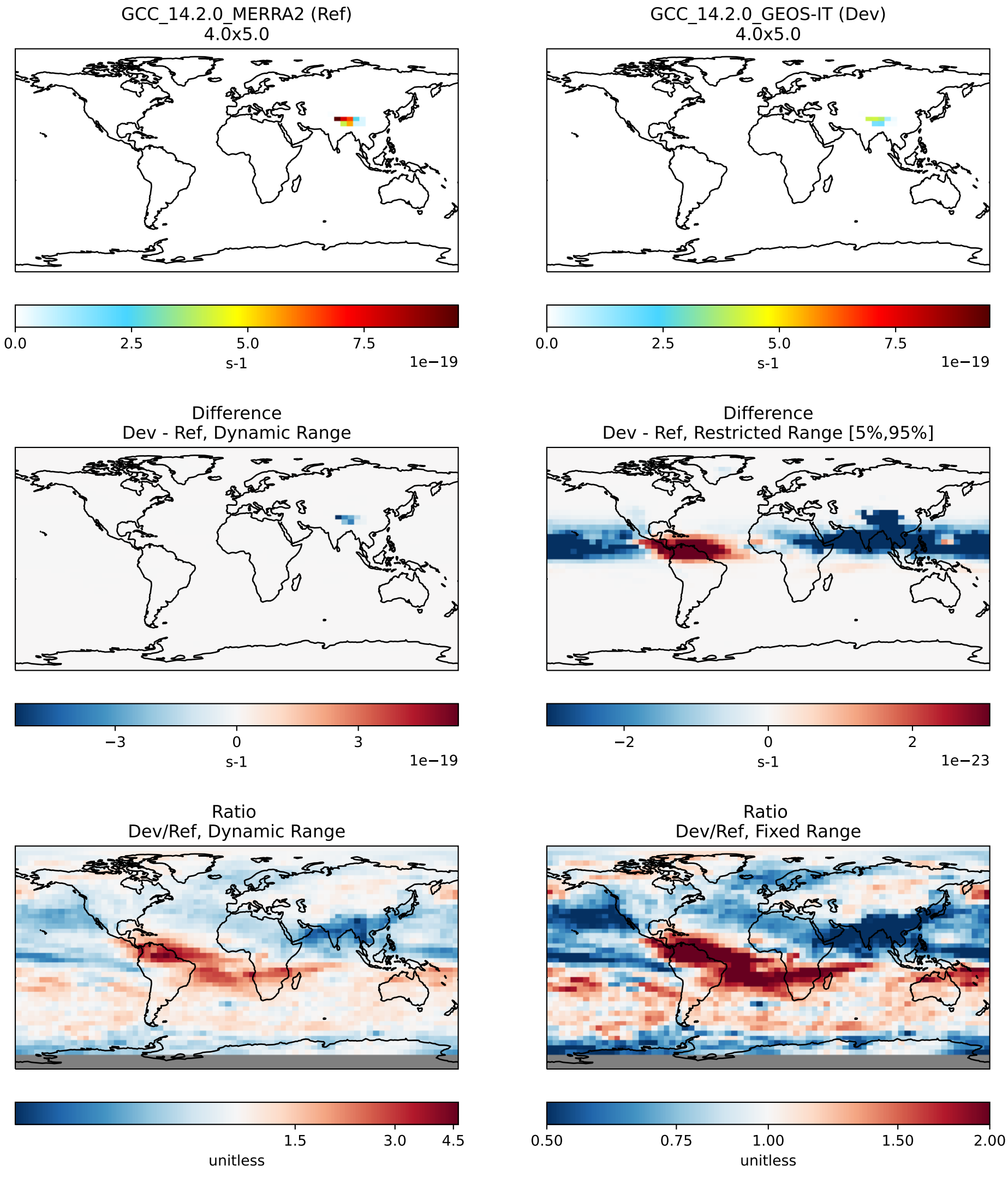
Jval_MVKN


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
1
2
3
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
1
2
3
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−3
0
3
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

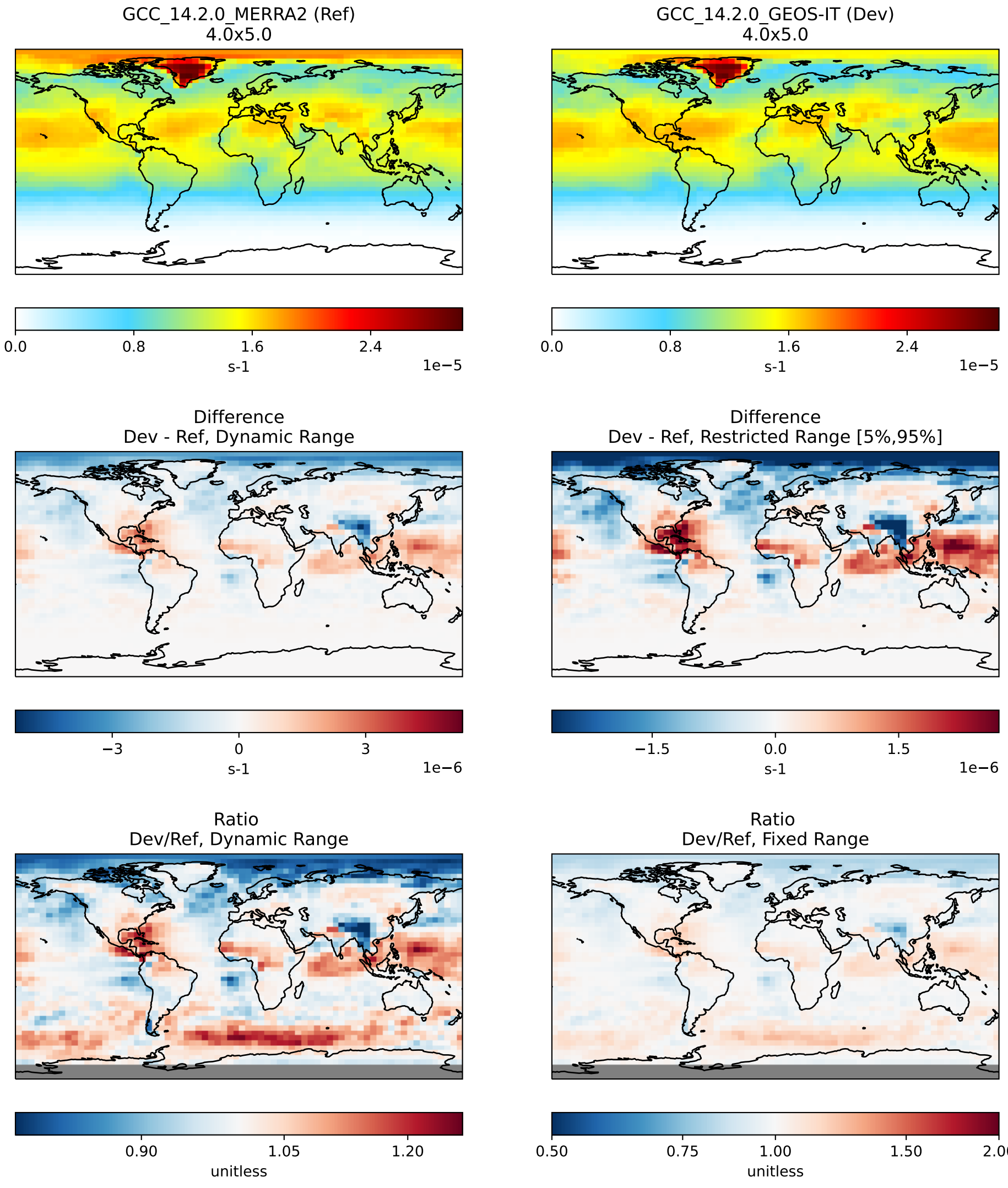
Jval_MVKPC


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−2
0
2
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

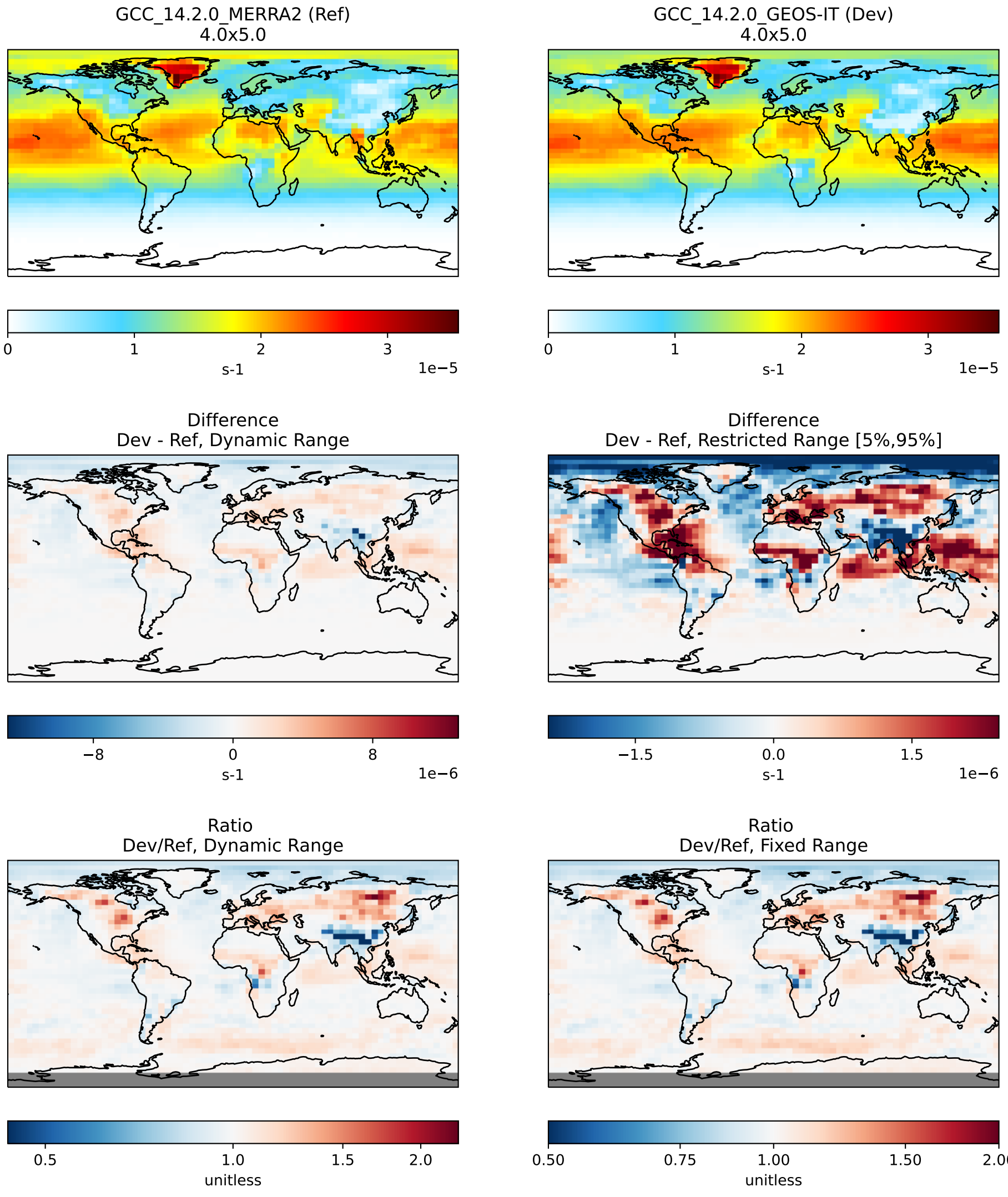
Jval_N2O


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
2.5
5.0
7.5
s-1
1e−19
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
2.5
5.0
7.5
s-1
1e−19
Difference
Dev - Ref, Dynamic Range
−3
0
3
s-1
1e−19
Difference
Dev - Ref, Restricted Range [5%,95%]
−2
0
2
s-1
1e−23
Ratio
Dev/Ref, Dynamic Range
1.5
3.0
4.5
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

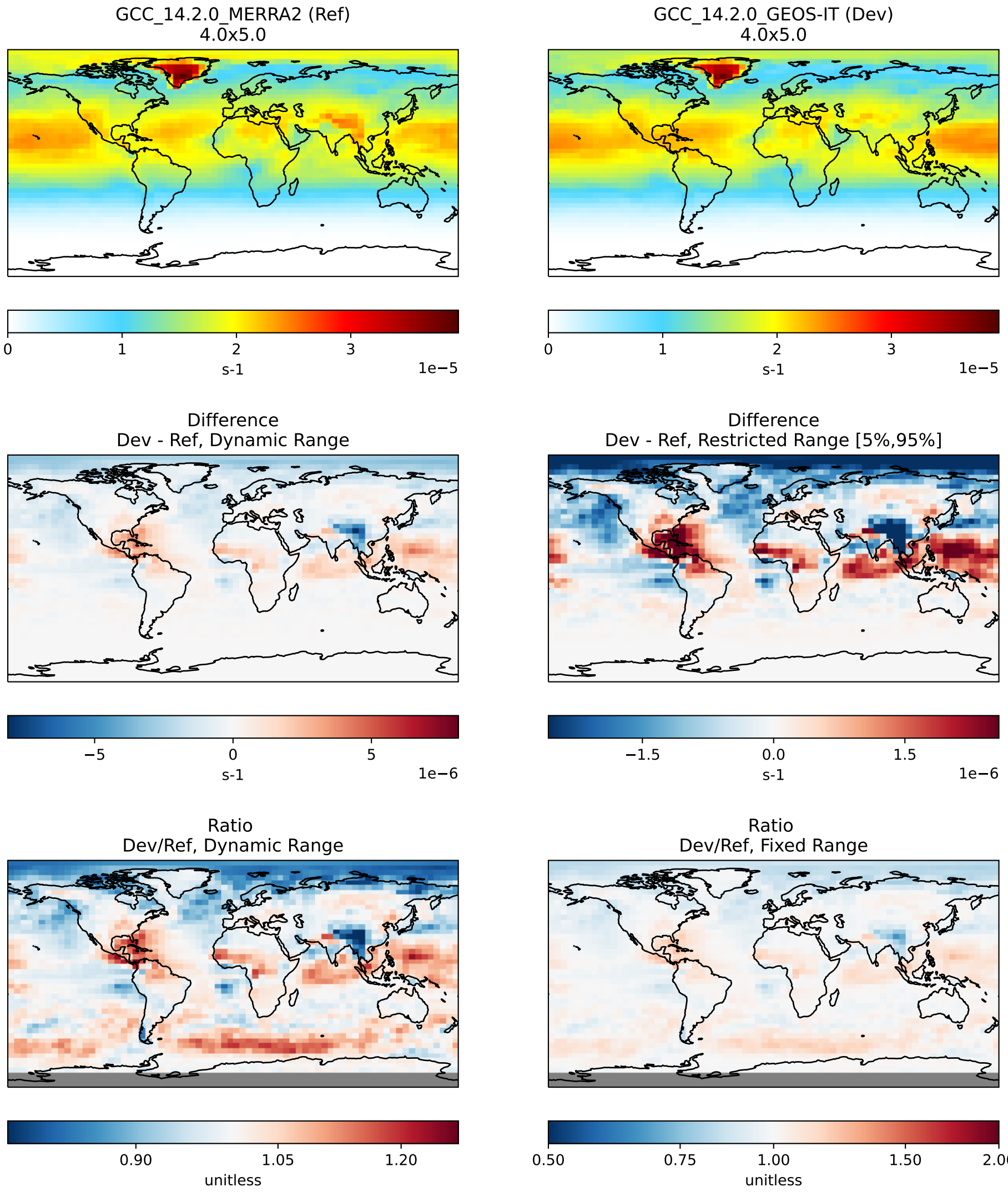
Jval_N2O5


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.8
1.6
2.4
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.8
1.6
2.4
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−3
0
3
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

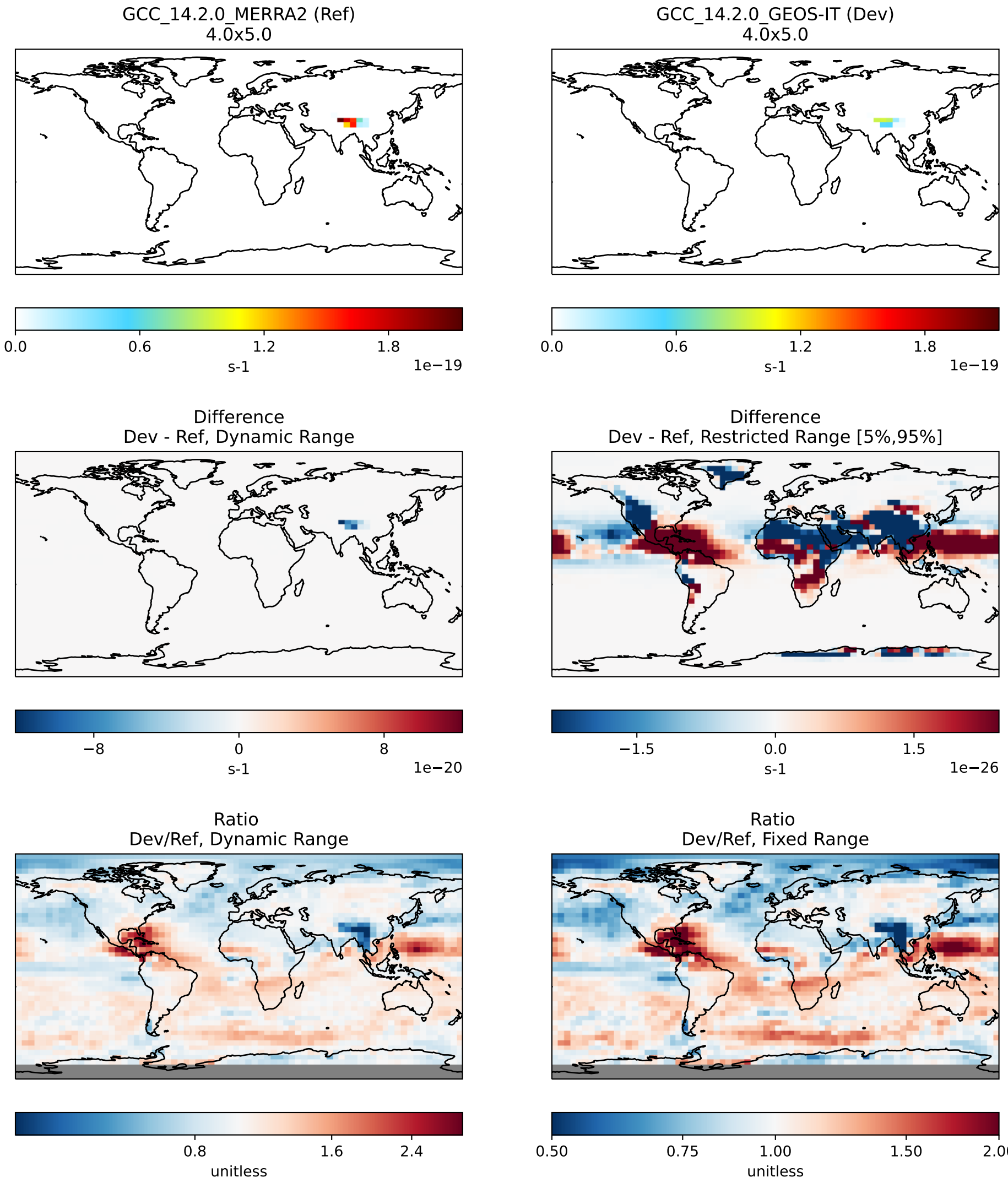
Jval_NIT


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
1
2
3
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
1
2
3
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−8
0
8
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.5
1.0
1.5
2.0
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

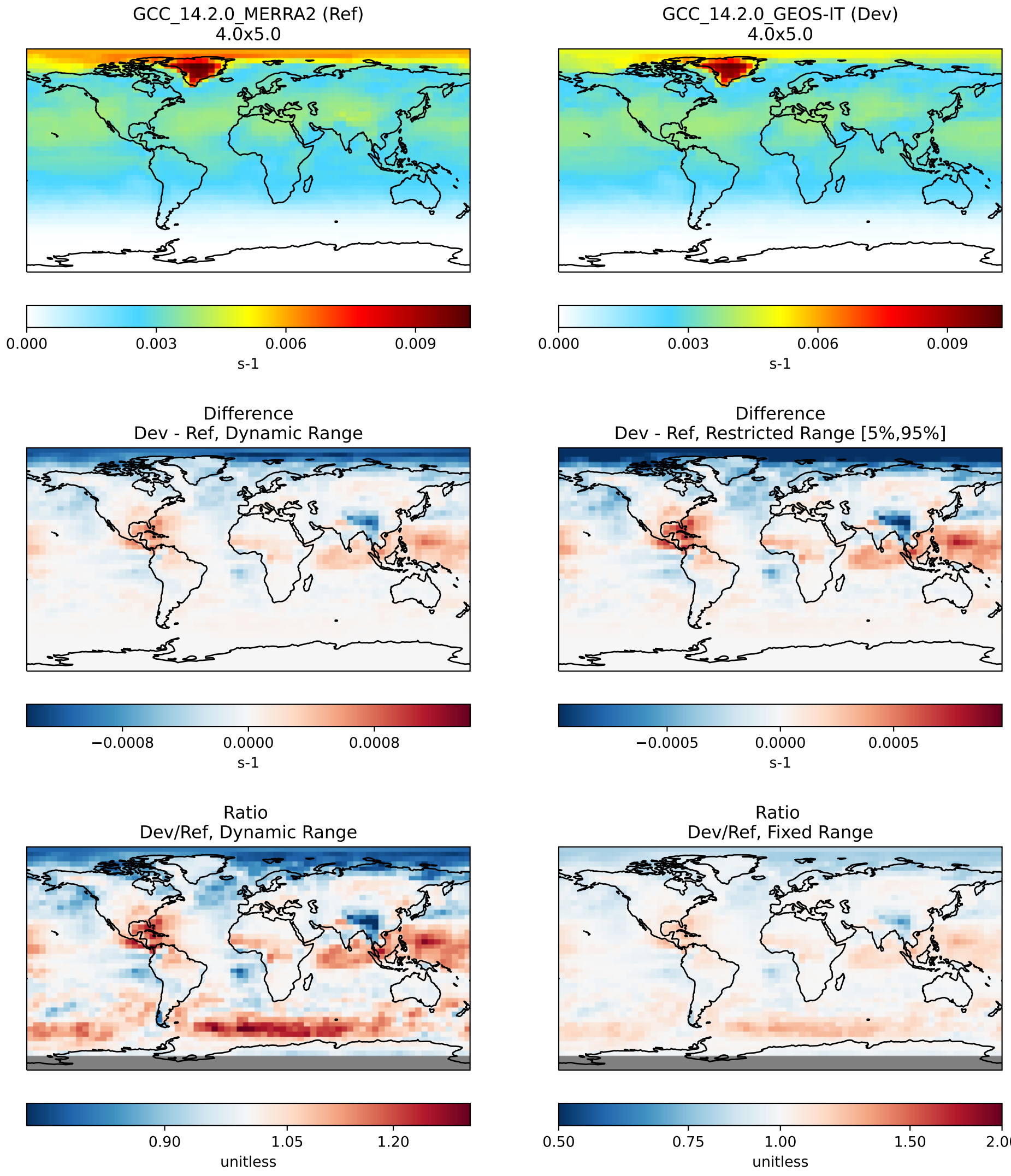
Jval_NITs


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
1
2
3
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
1
2
3
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−5
0
5
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

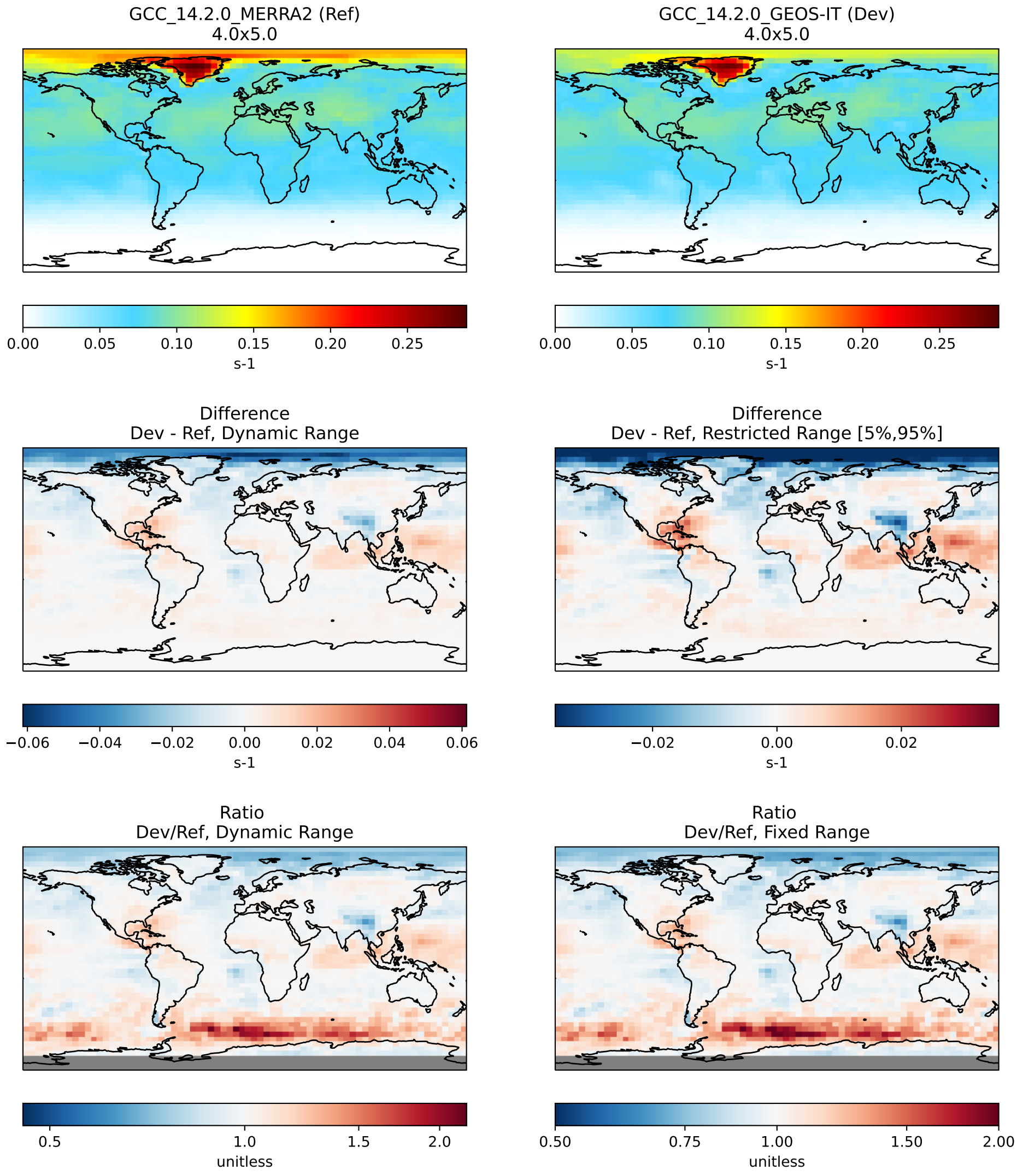
Jval_NO


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.6
1.2
1.8
s-1
1e−19
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.6
1.2
1.8
s-1
1e−19
Difference
Dev - Ref, Dynamic Range
−8
0
8
s-1
1e−20
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−26
Ratio
Dev/Ref, Dynamic Range
0.8
1.6
2.4
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

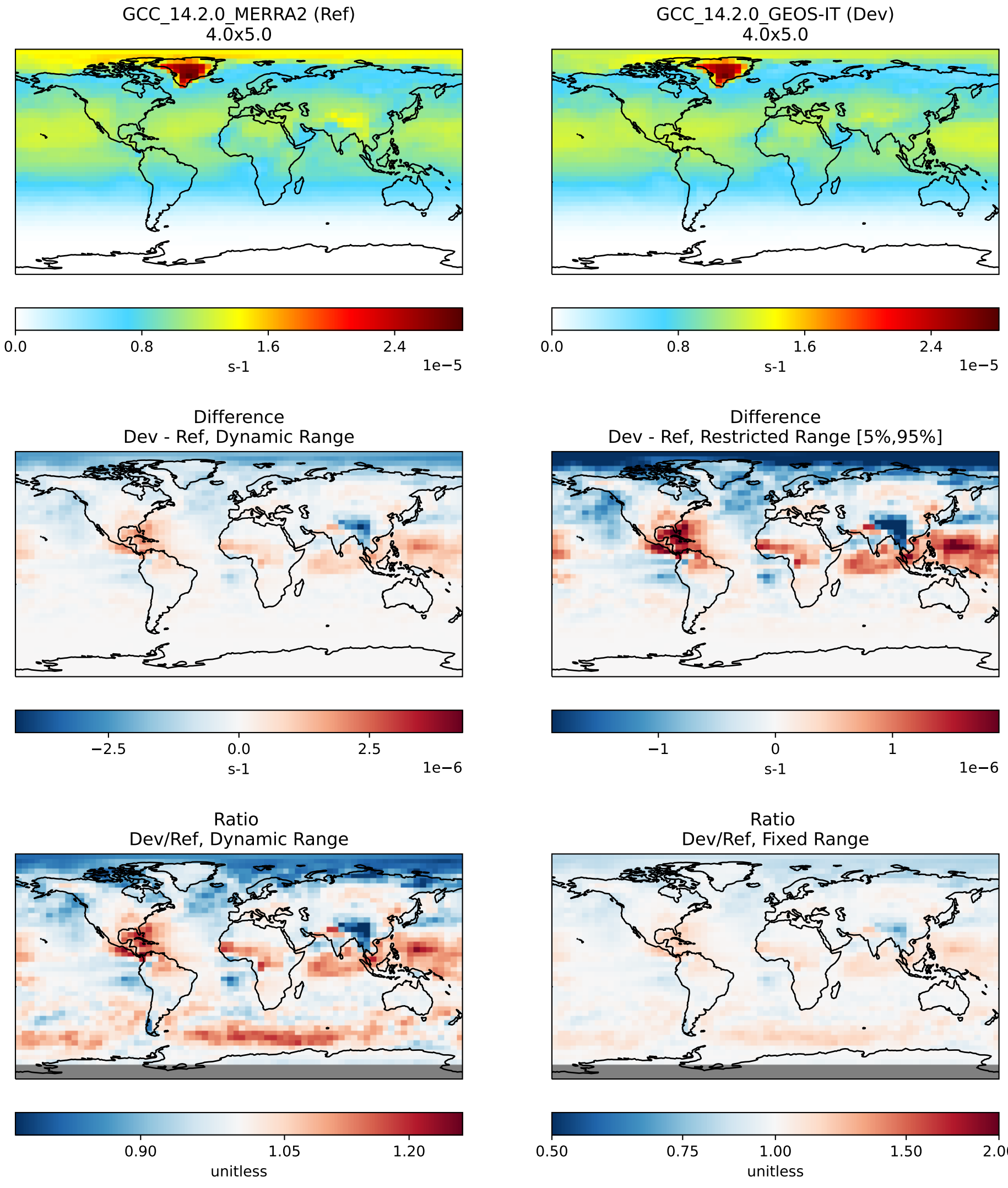
Jval_NO2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.000
0.003
0.006
0.009
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.000
0.003
0.006
0.009
s-1
Difference
Dev - Ref, Dynamic Range
−0.0008
0.0000
0.0008
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.0005
0.0000
0.0005
s-1
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

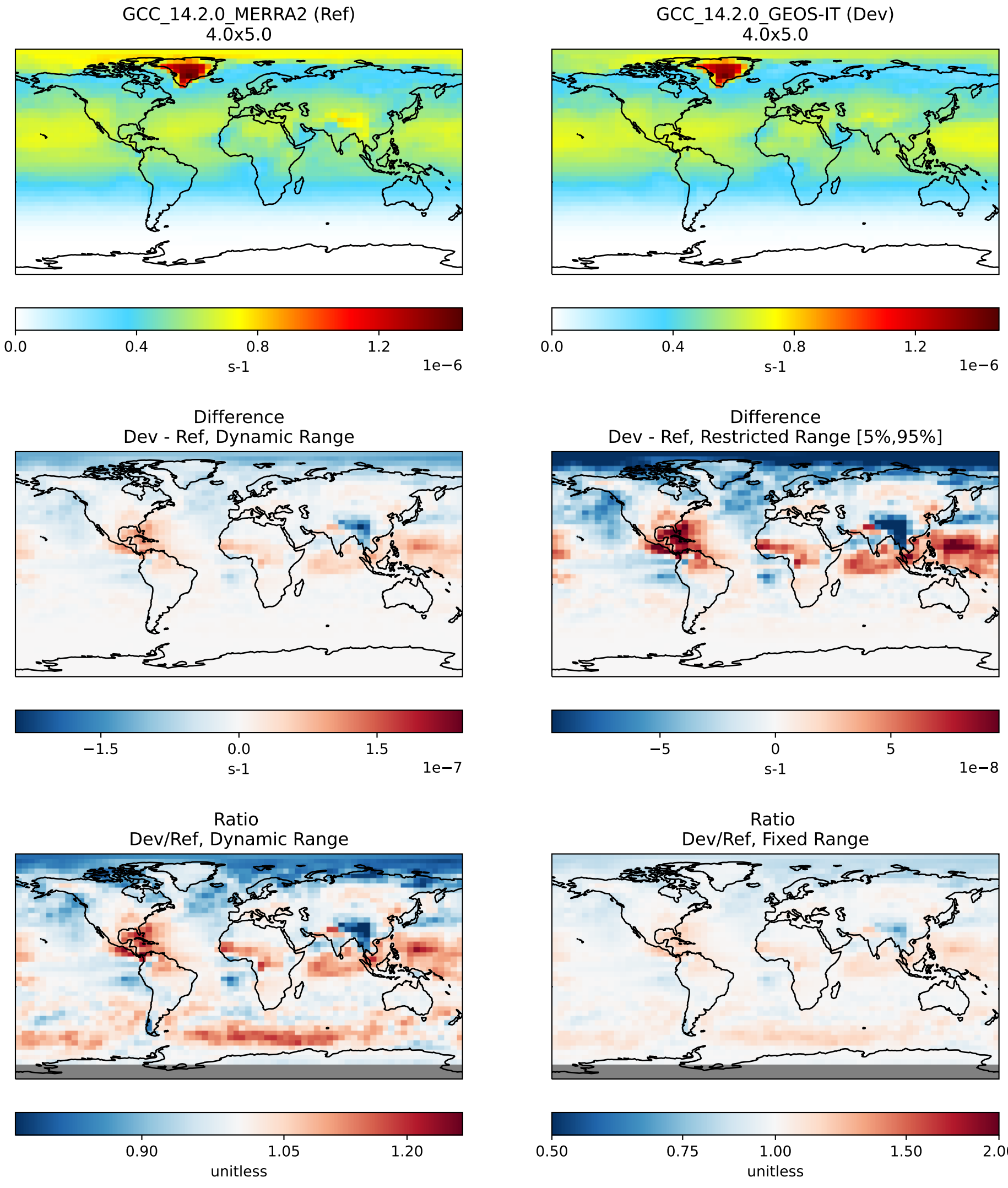
Jval_NO3


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00
0.05
0.10
0.15
0.20
0.25
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00
0.05
0.10
0.15
0.20
0.25
s-1
Difference
Dev - Ref, Dynamic Range
−0.06
−0.04
−0.02
0.00
0.02
0.04
0.06
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.02
0.00
0.02
s-1
Ratio
Dev/Ref, Dynamic Range
0.5
1.0
1.5
2.0
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

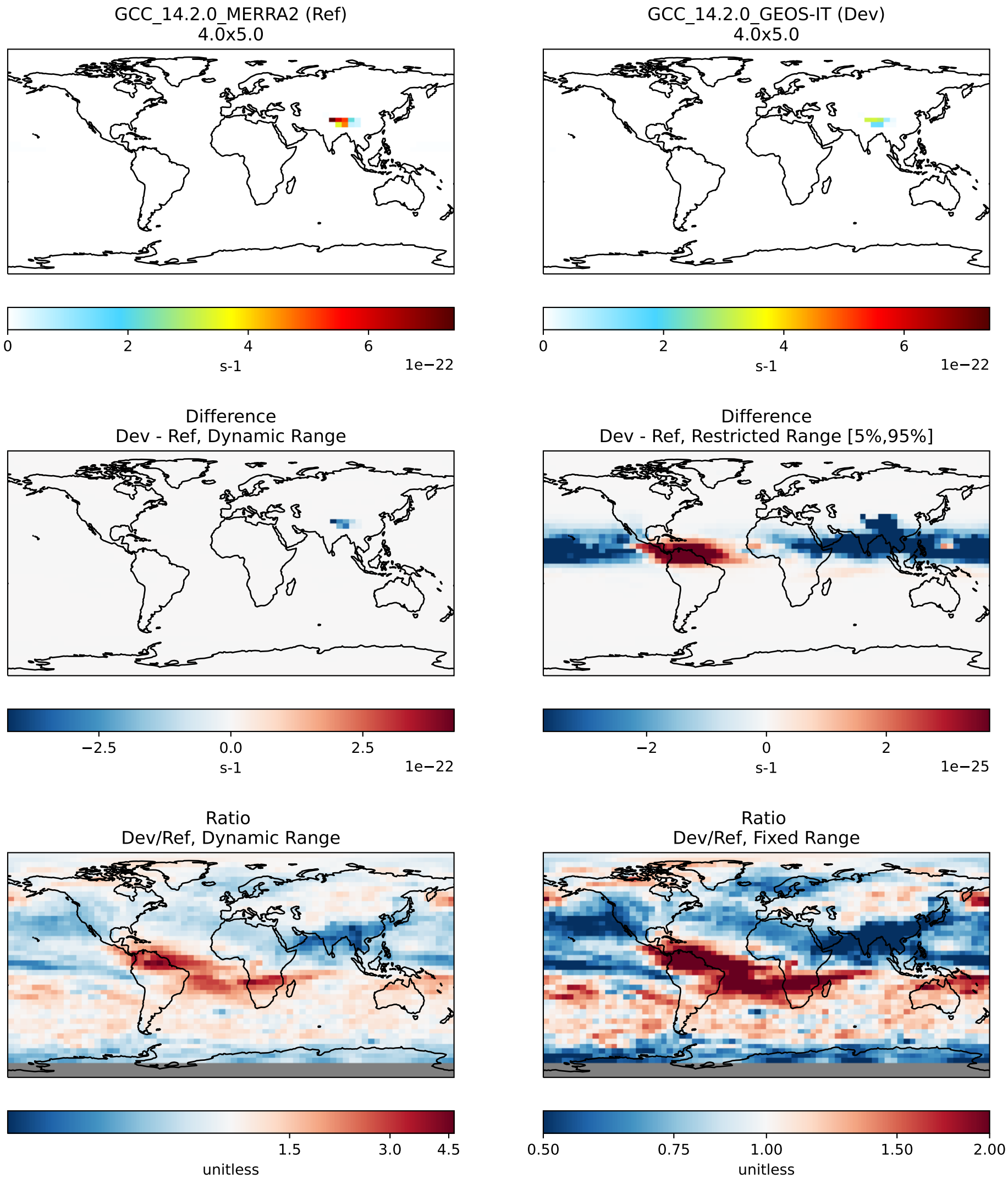
Jval_NPHEN


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.8
1.6
2.4
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.8
1.6
2.4
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−2.5
0.0
2.5
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−1
0
1
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

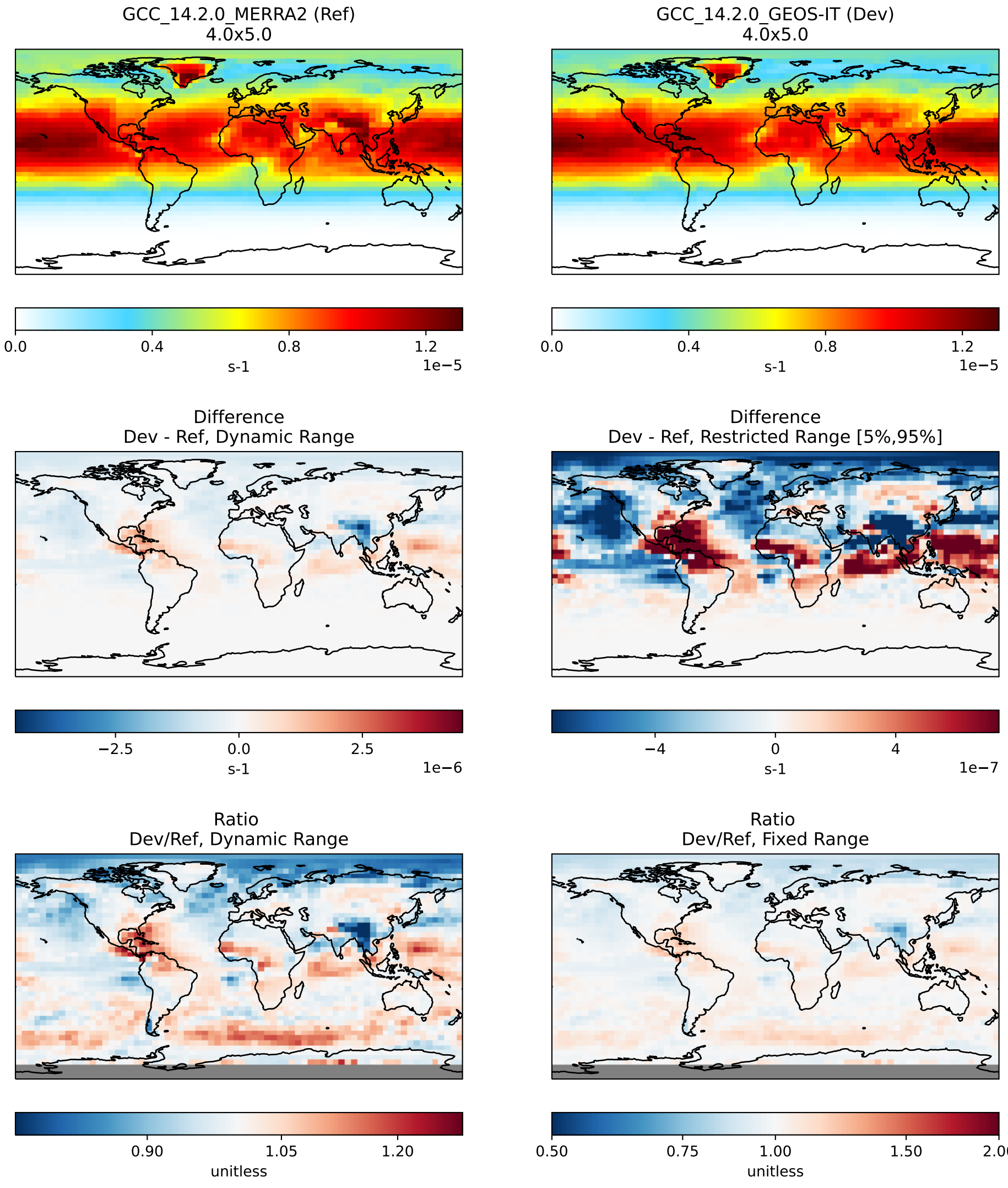
Jval_NPRNO3


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−1.5
0.0
1.5
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−5
0
5
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

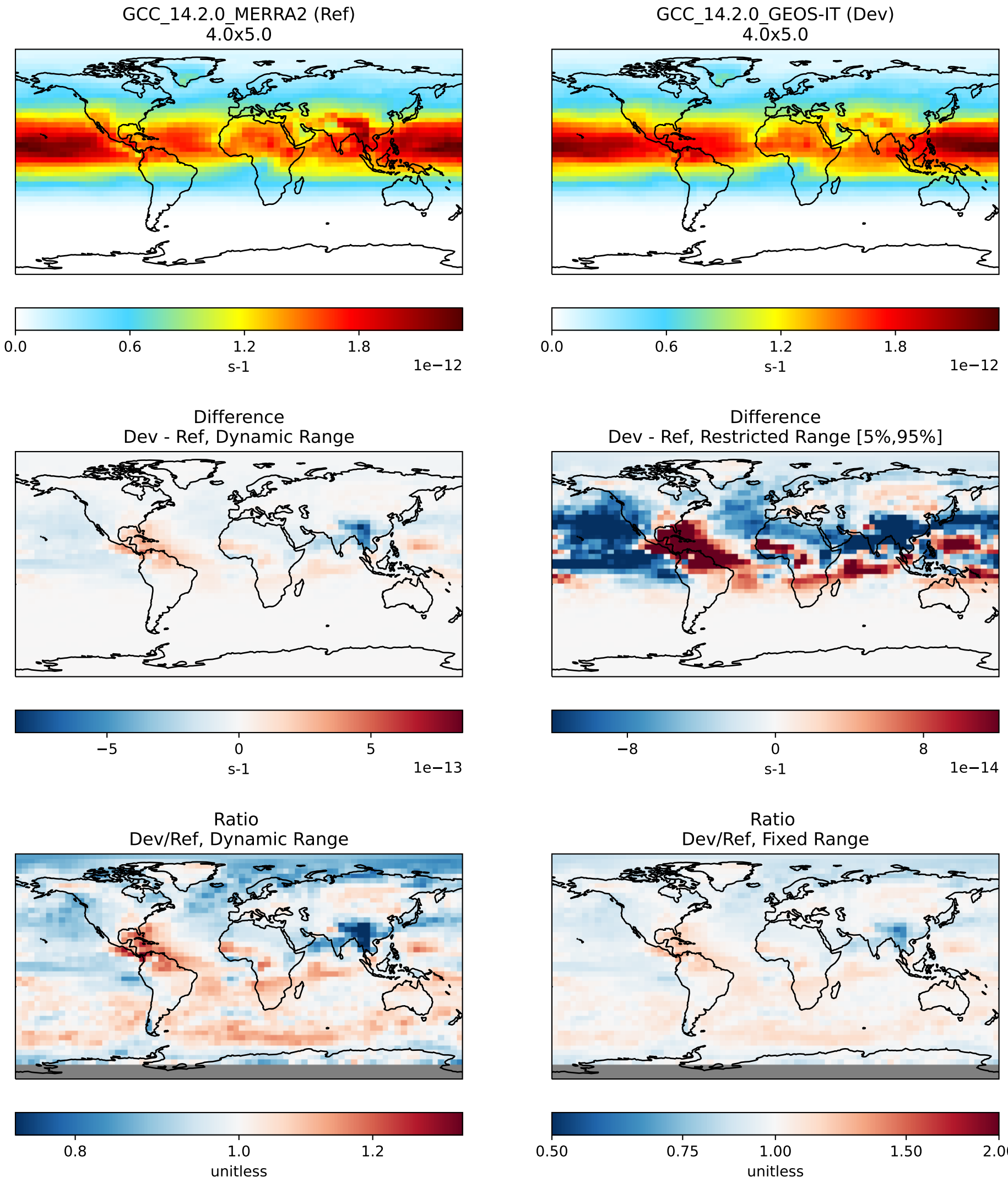
Jval_O2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
2
4
6
s-1
1e−22
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
2
4
6
s-1
1e−22
Difference
Dev - Ref, Dynamic Range
−2.5
0.0
2.5
s-1
1e−22
Difference
Dev - Ref, Restricted Range [5%,95%]
−2
0
2
s-1
1e−25
Ratio
Dev/Ref, Dynamic Range
1.5
3.0
4.5
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

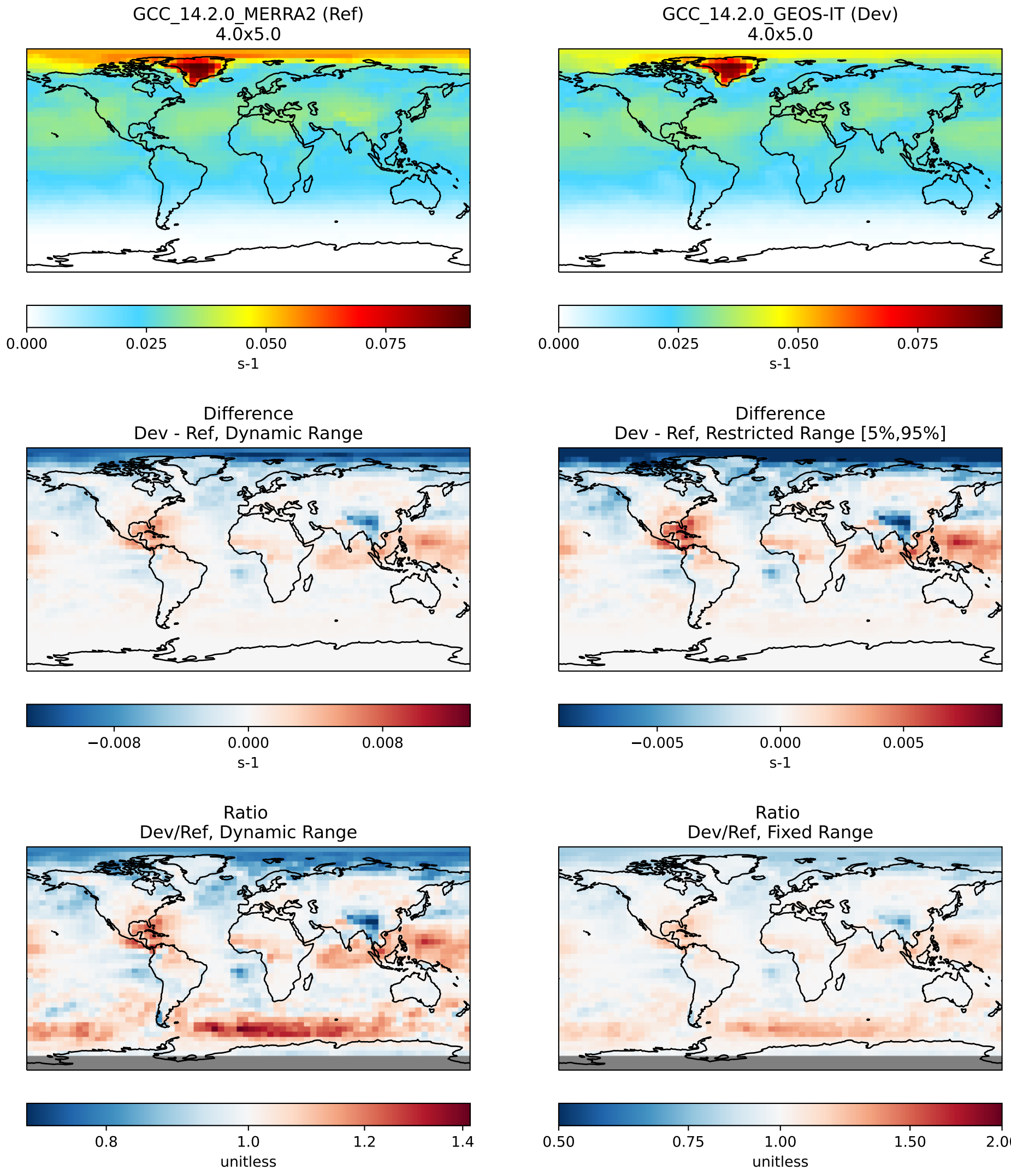
Jval_O3


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.4
0.8
1.2
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−2.5
0.0
2.5
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−4
0
4
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

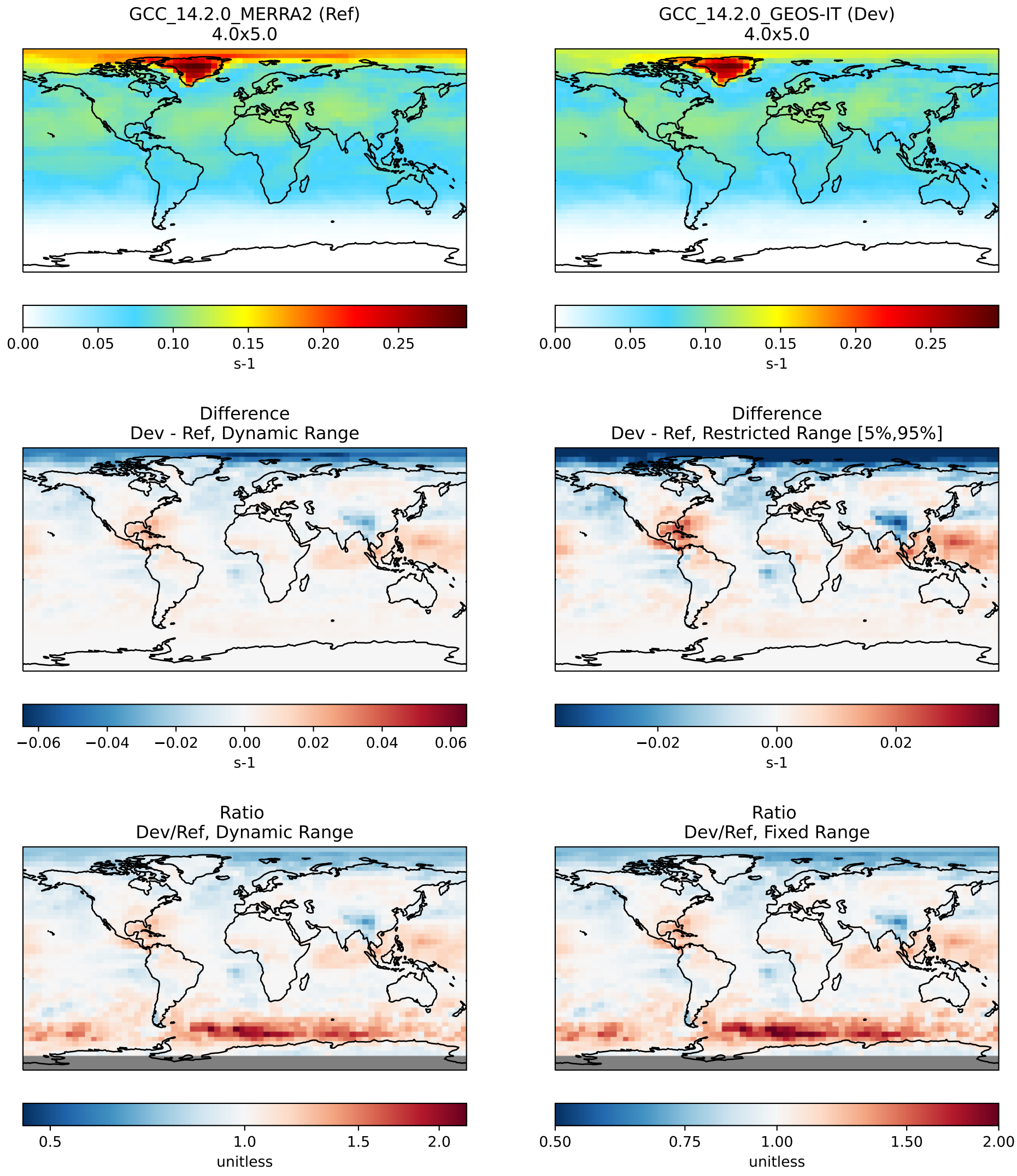
Jval_OCS


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.6
1.2
1.8
s-1
1e−12
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.6
1.2
1.8
s-1
1e−12
Difference
Dev - Ref, Dynamic Range
−5
0
5
s-1
1e−13
Difference
Dev - Ref, Restricted Range [5%,95%]
−8
0
8
s-1
1e−14
Ratio
Dev/Ref, Dynamic Range
0.8
1.0
1.2
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

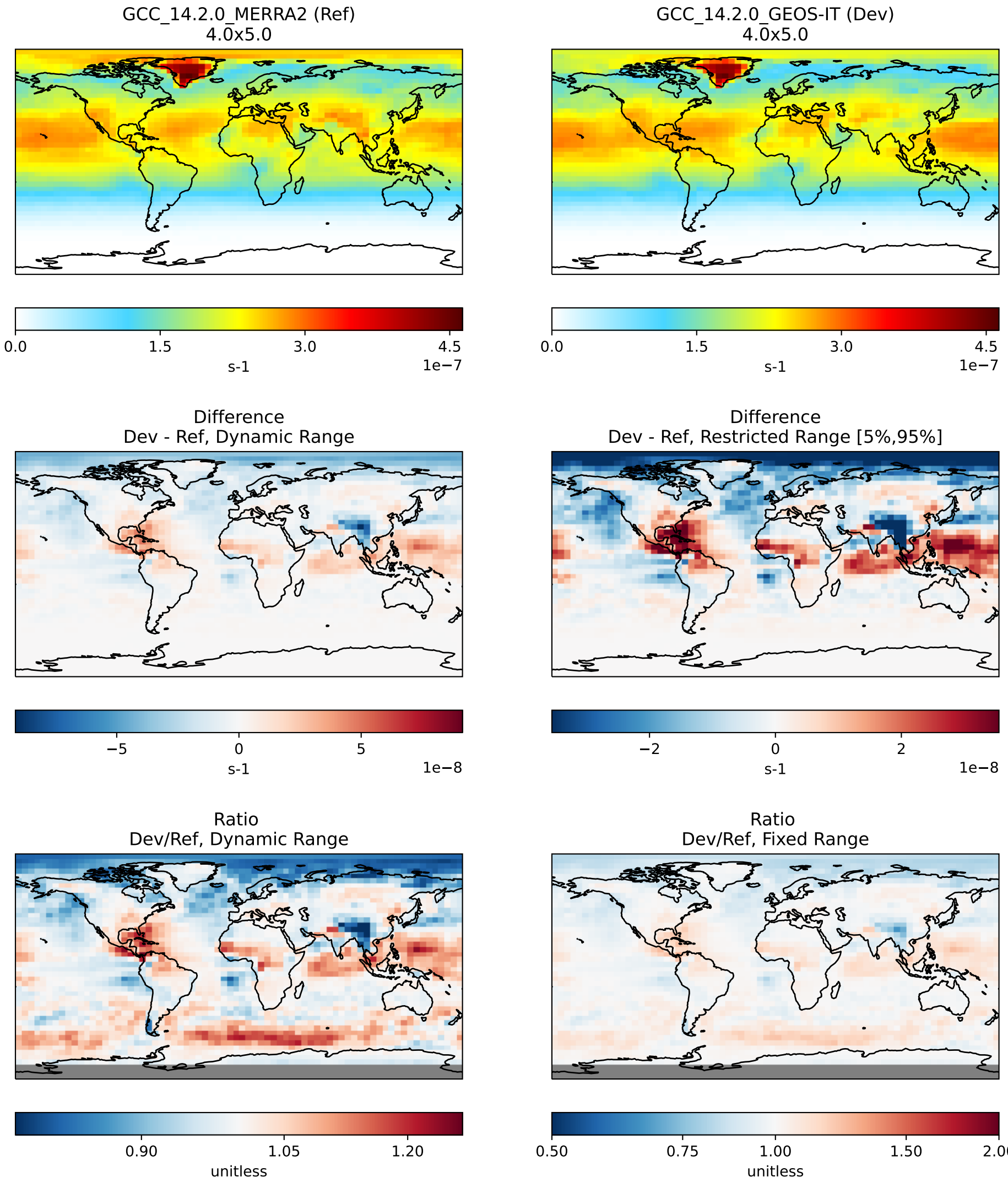
Jval_OClO


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.000
0.025
0.050
0.075
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.000
0.025
0.050
0.075
s-1
Difference
Dev - Ref, Dynamic Range
−0.008
0.000
0.008
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.005
0.000
0.005
s-1
Ratio
Dev/Ref, Dynamic Range
0.8
1.0
1.2
1.4
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

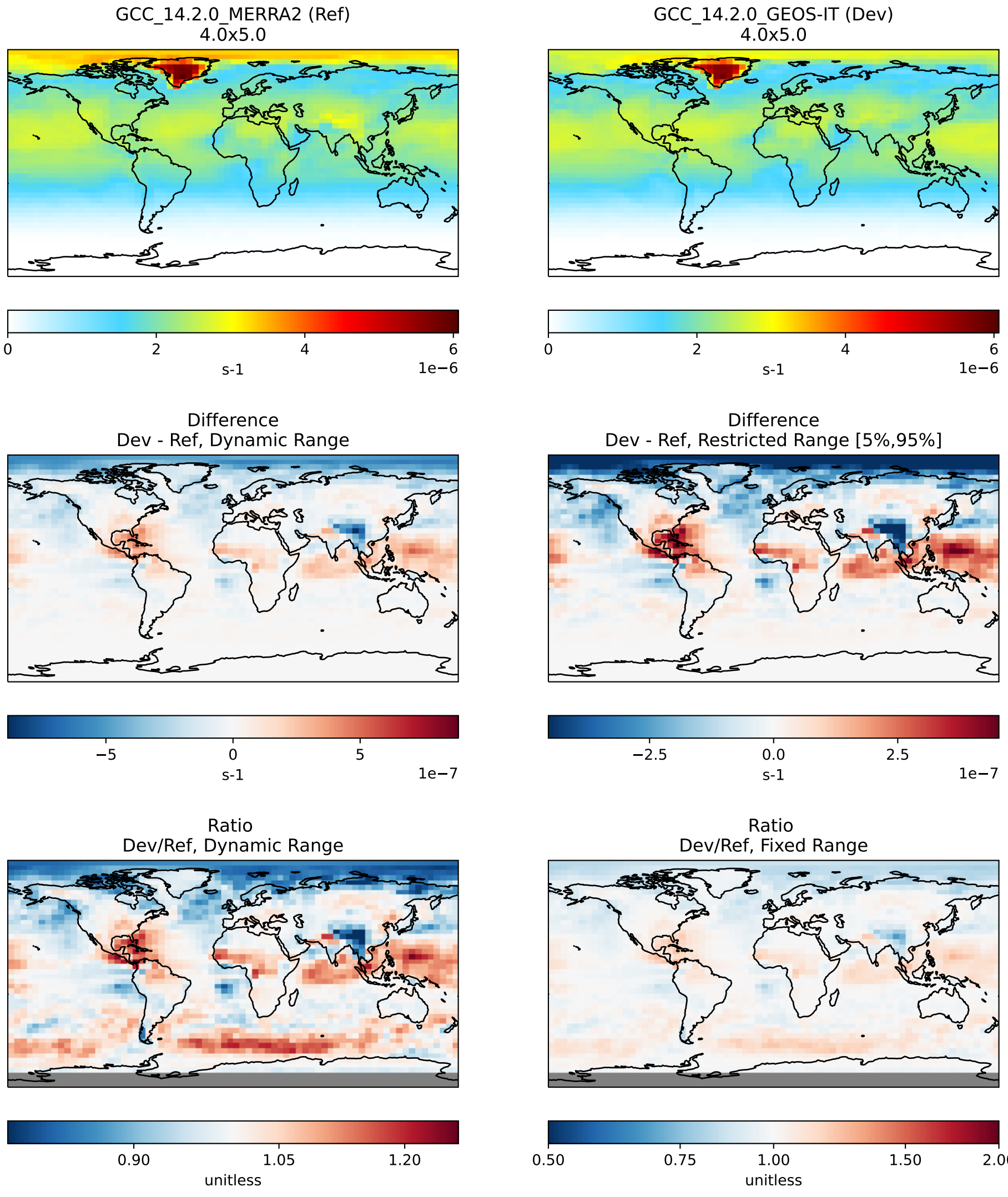
Jval_OIO


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00 0.05 0.10 0.15 0.20 0.25
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00 0.05 0.10 0.15 0.20 0.25
s-1
Difference
Dev - Ref, Dynamic Range
−0.06 −0.04 −0.02 0.00 0.02 0.04 0.06
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
−0.02 0.00 0.02
s-1
Ratio
Dev/Ref, Dynamic Range
0.5 1.0 1.5 2.0
unitless
Ratio
Dev/Ref, Fixed Range
0.50 0.75 1.00 1.50 2.00
unitless

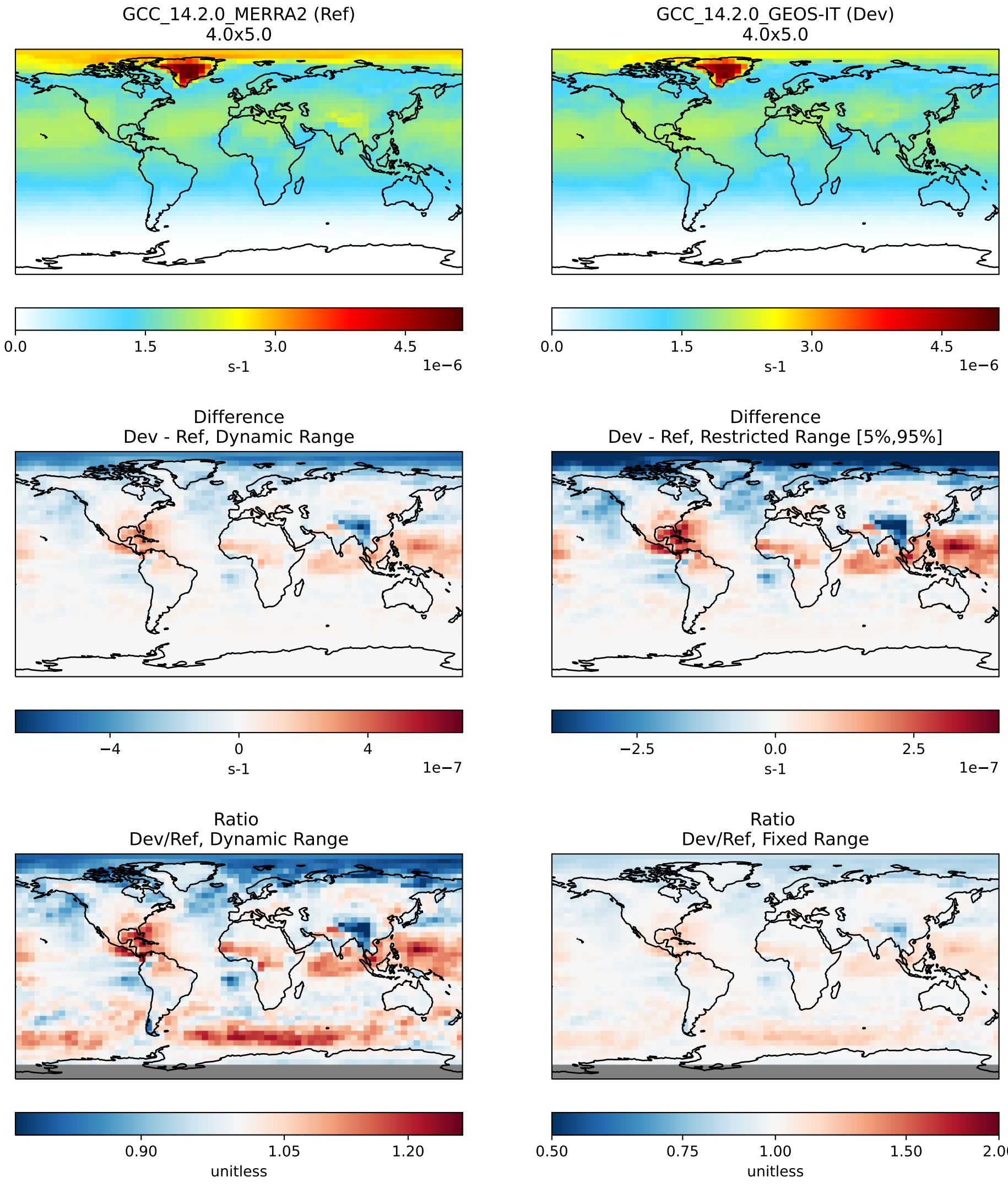
Jval_PAN


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−7
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−7
Difference
Dev - Ref, Dynamic Range
−5
0
5
s-1
1e−8
Difference
Dev - Ref, Restricted Range [5%,95%]
−2
0
2
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

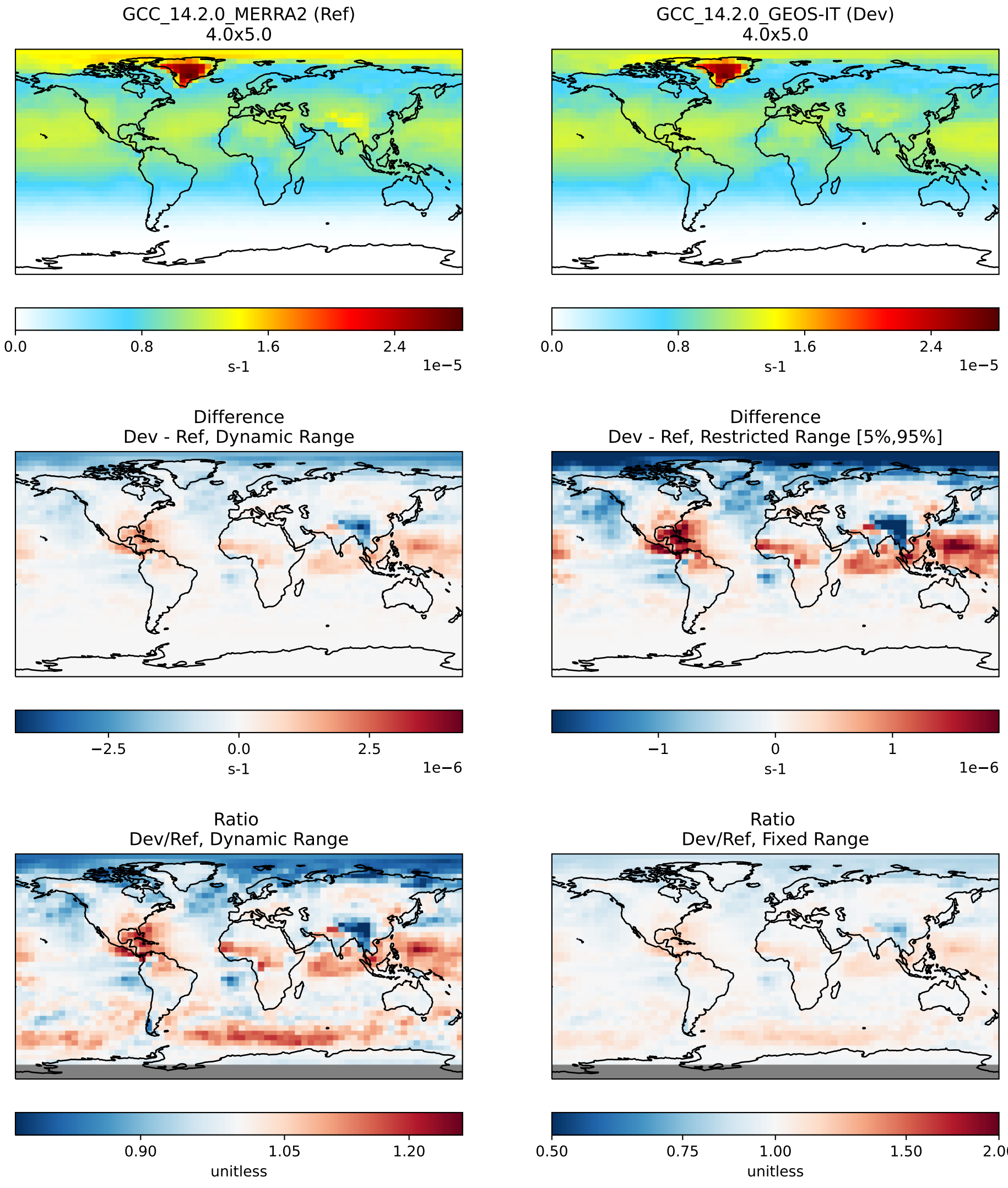
Jval_PIP


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
2
4
6
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
2
4
6
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−5
0
5
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

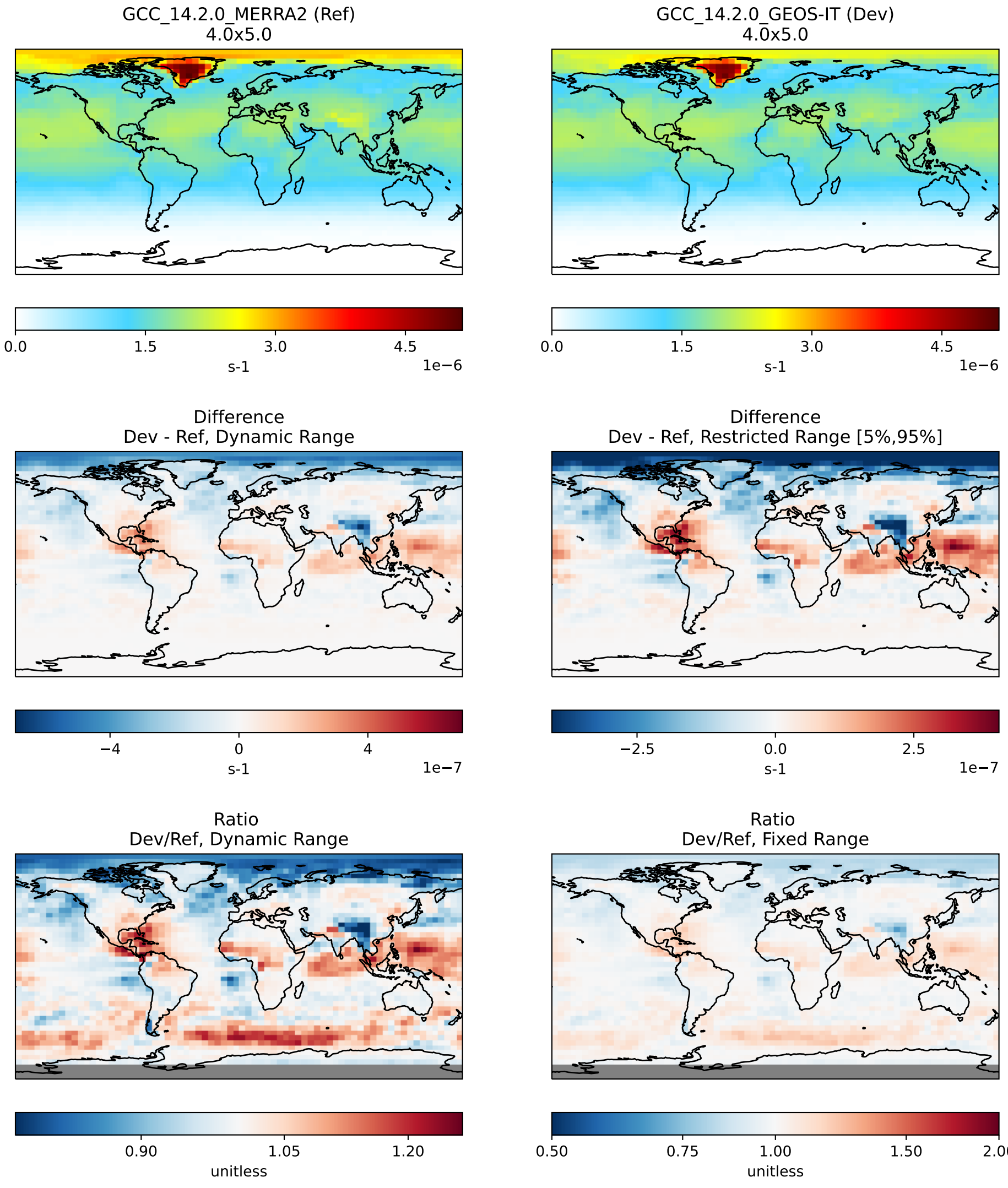
Jval_PP


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

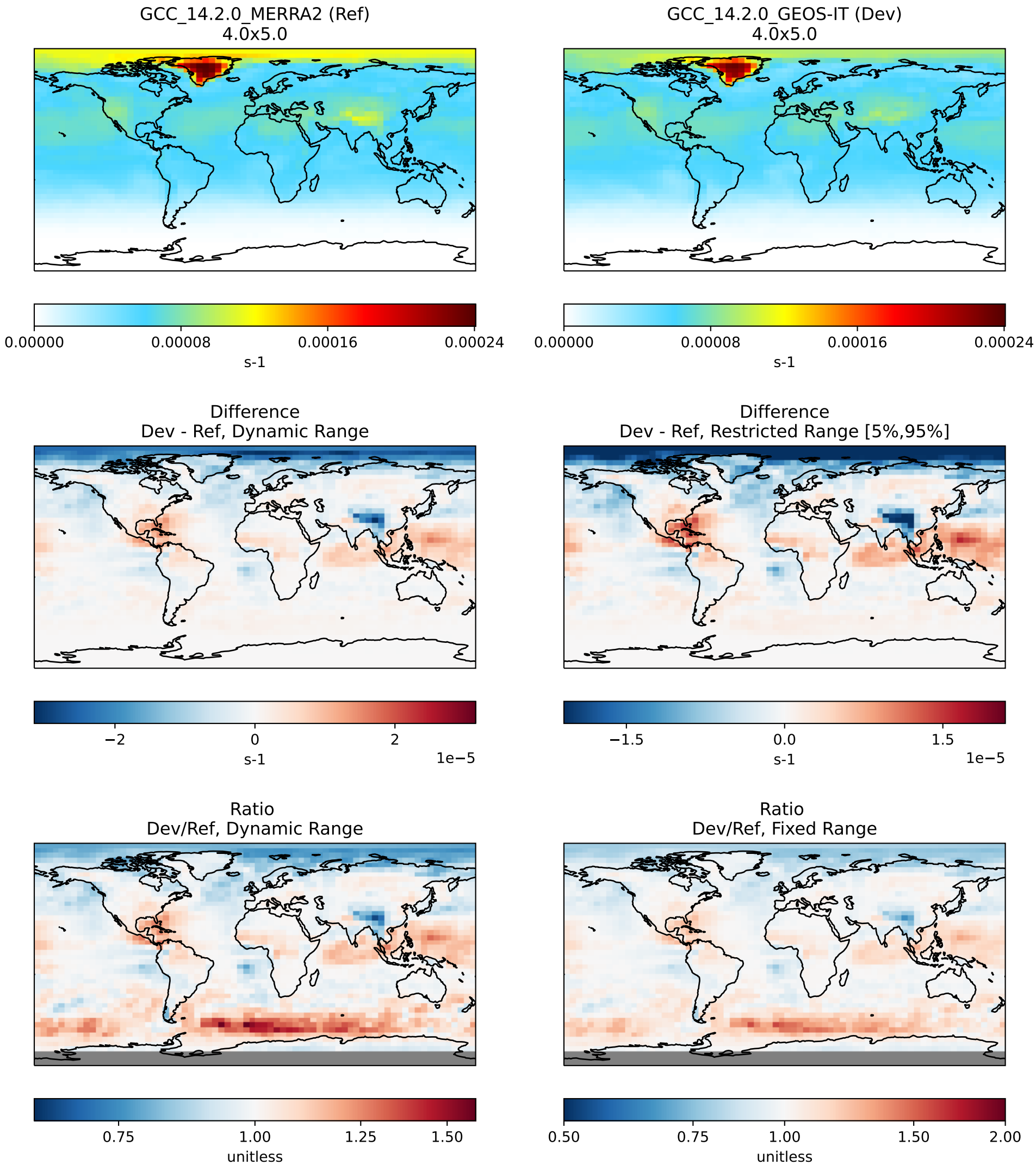
Jval_PROPNN


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
0.8
1.6
2.4
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
0.8
1.6
2.4
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−2.5
0.0
2.5
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−1
0
1
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

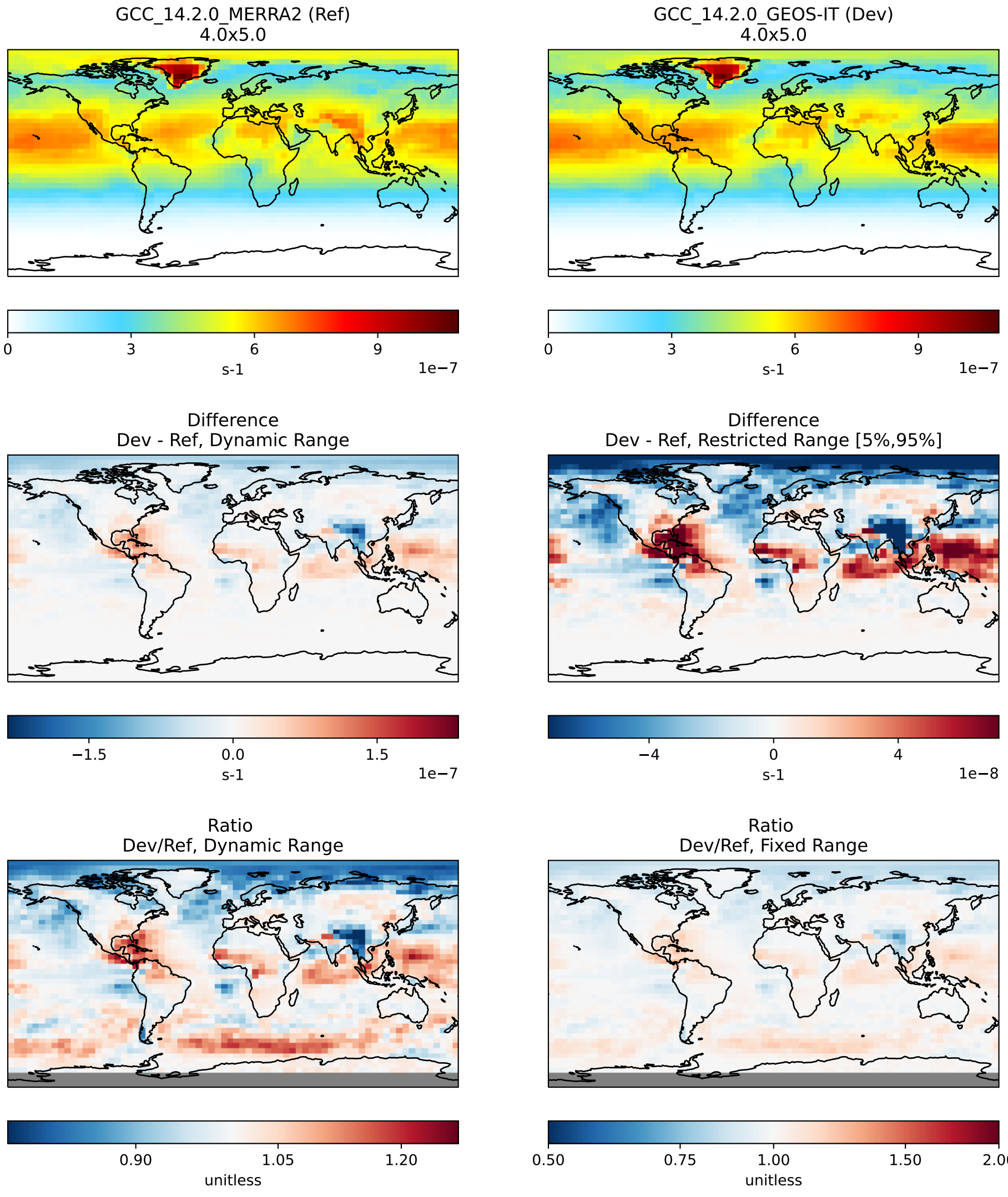
Jval_PRPN


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

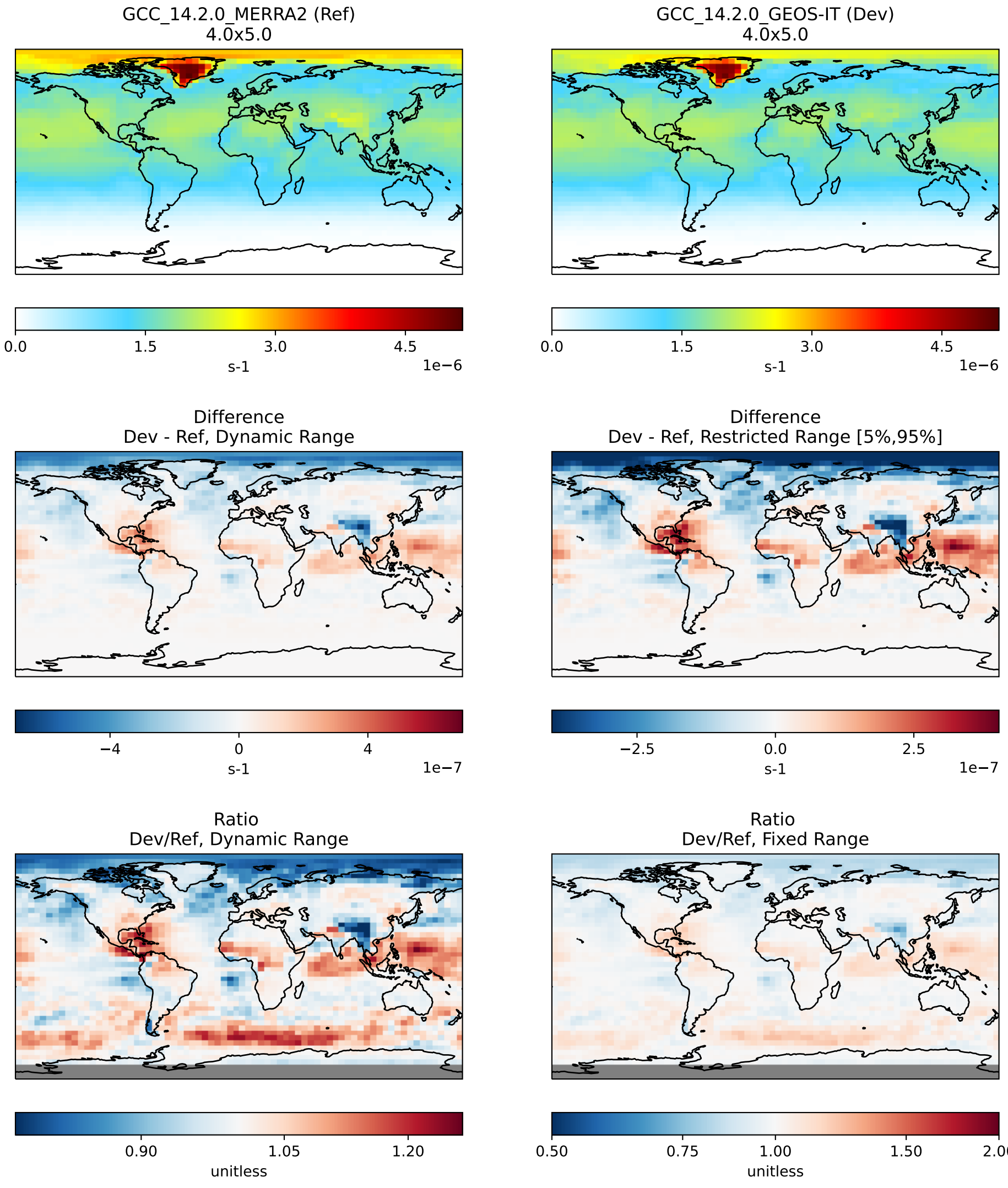
Jval_PYAC


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.00000
0.00008
0.00016
0.00024
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.00000
0.00008
0.00016
0.00024
s-1
Difference
Dev - Ref, Dynamic Range
−2
0
2
s-1
1e−5
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−5
Ratio
Dev/Ref, Dynamic Range
0.75
1.00
1.25
1.50
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

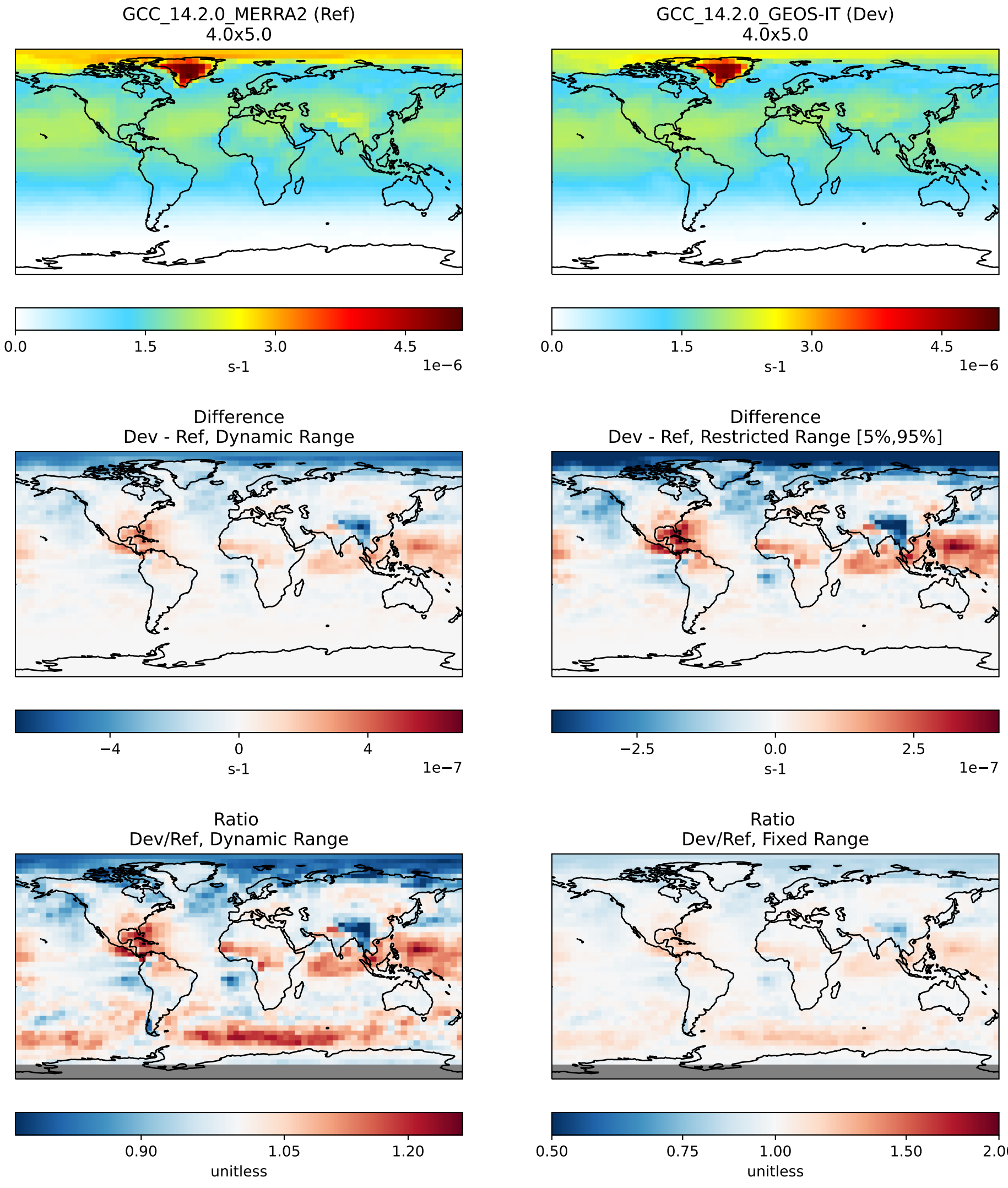
Jval_R4N2


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
3
6
9
s-1
1e−7
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
3
6
9
s-1
1e−7
Difference
Dev - Ref, Dynamic Range
−1.5
0.0
1.5
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−4
0
4
s-1
1e−8
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

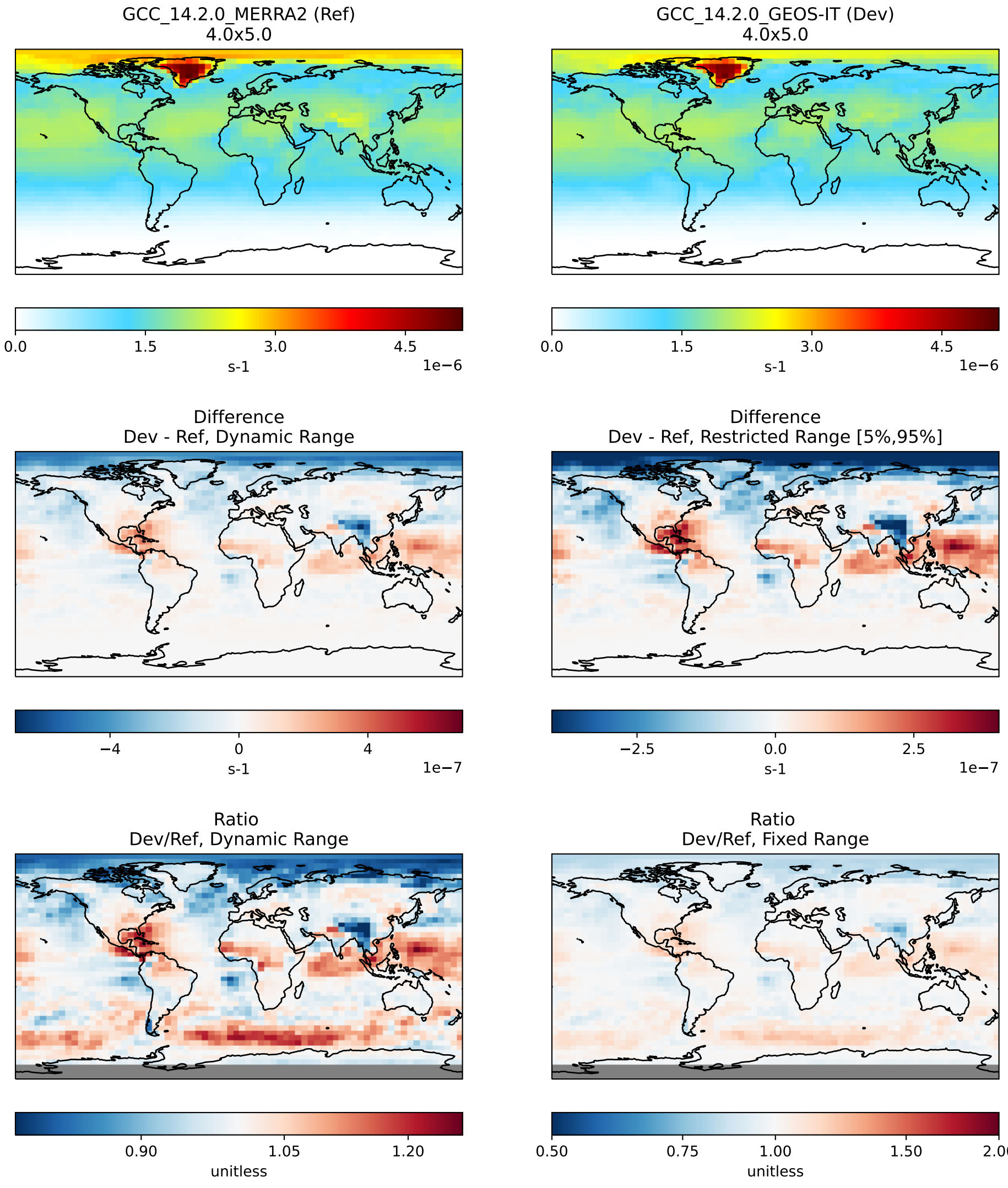
Jval_R4P


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

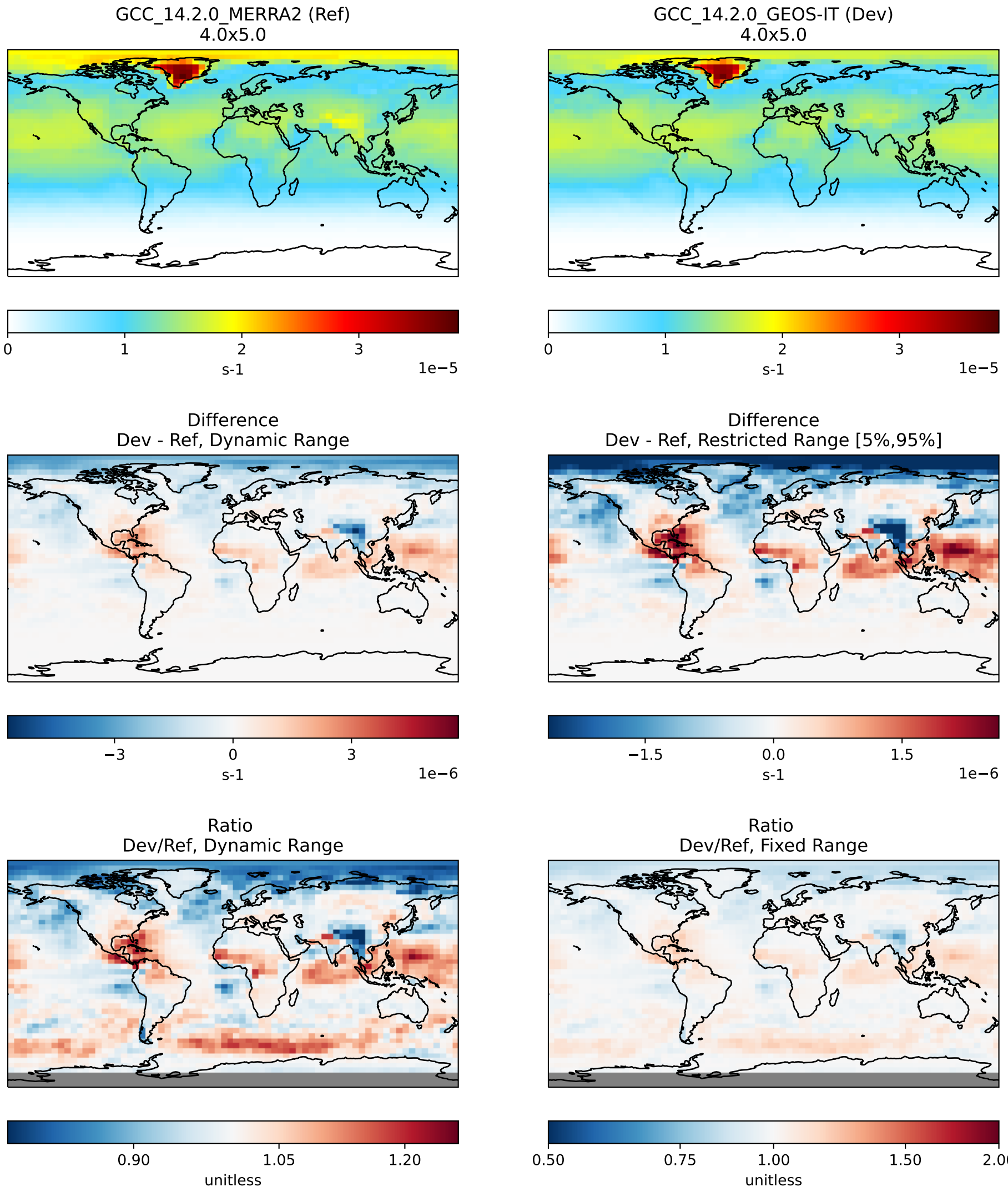
Jval_RA3P


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

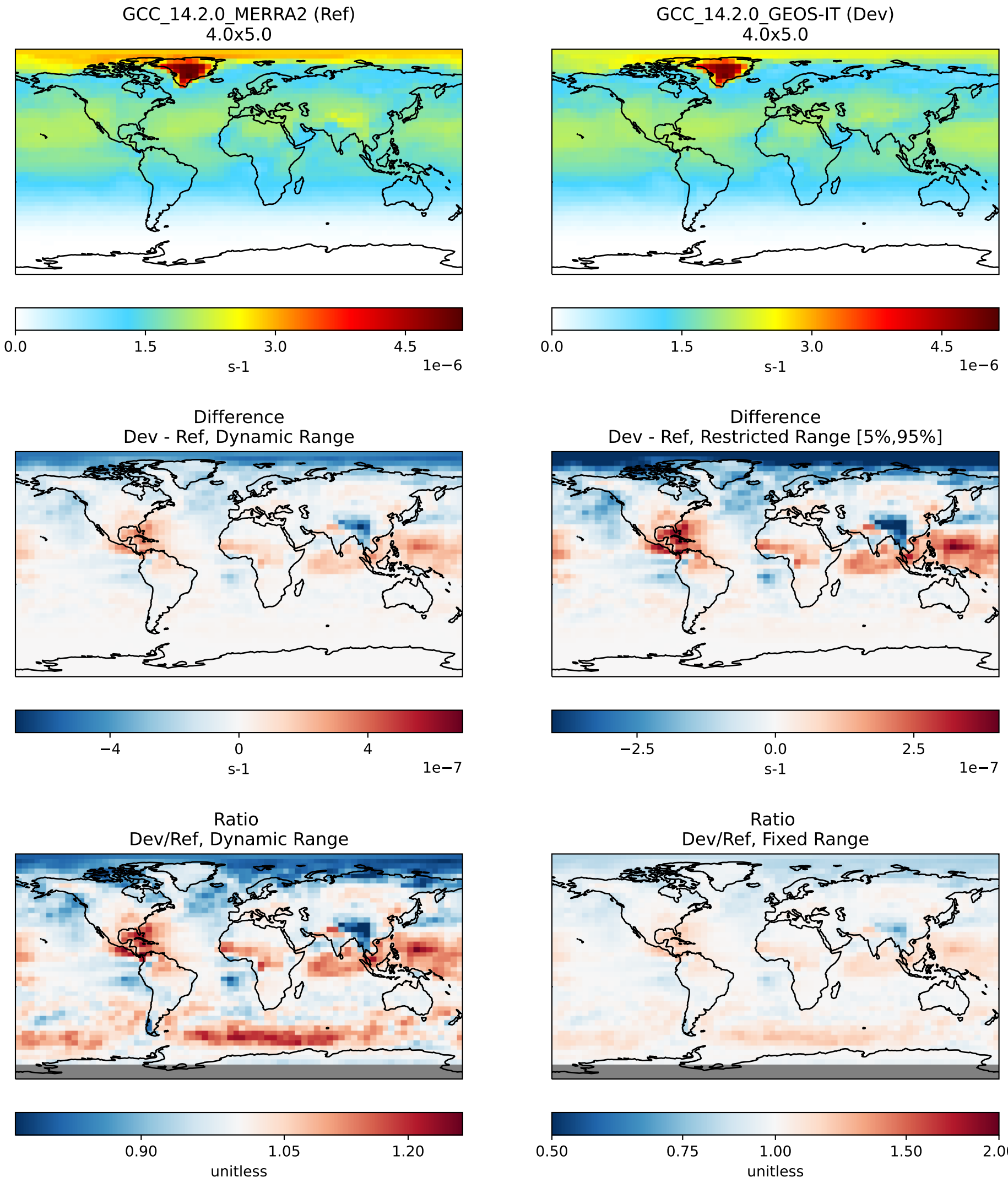
Jval_RB3P


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

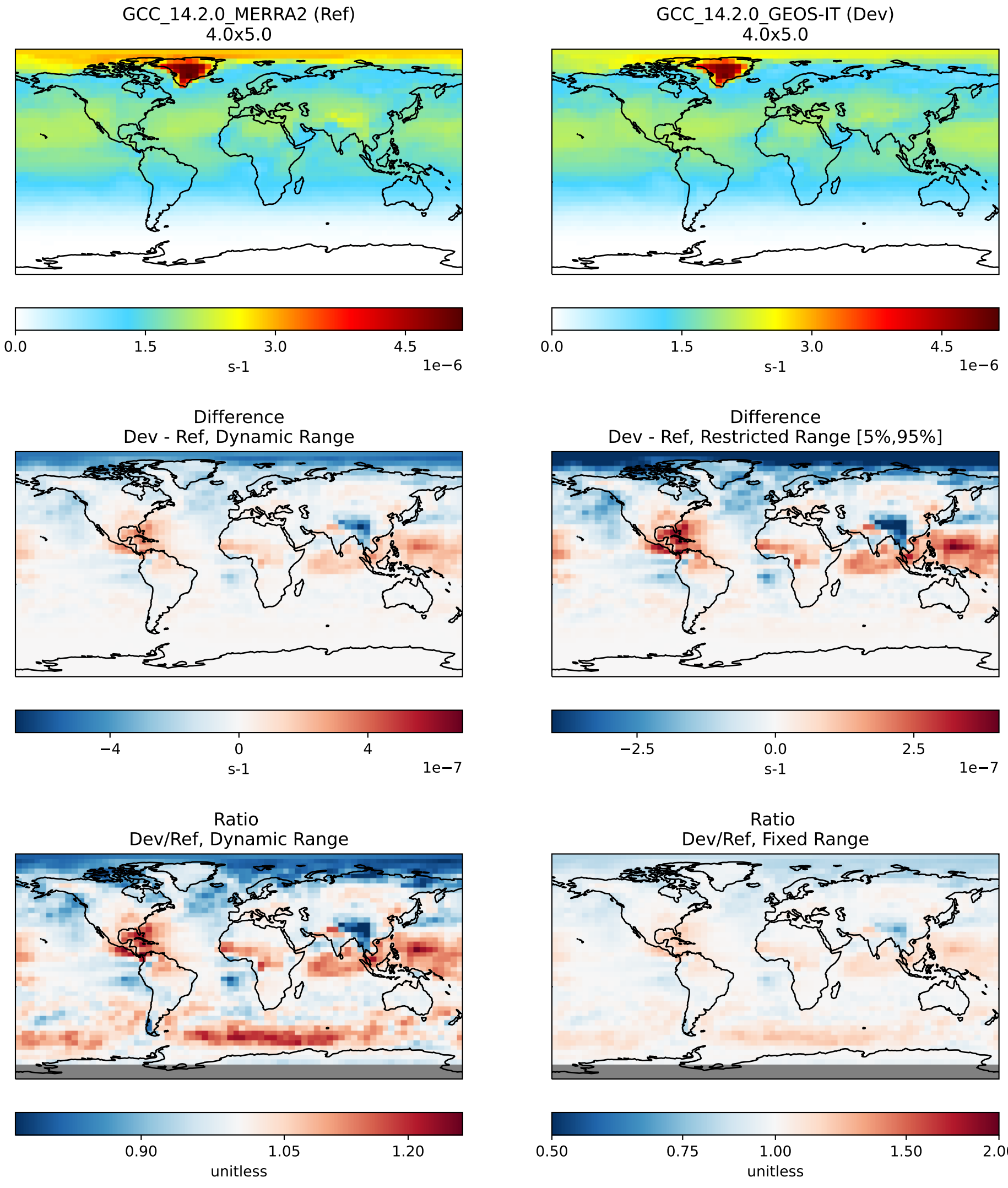
Jval_RCHO


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0
1
2
3
s-1
1e−5
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0
1
2
3
s-1
1e−5
Difference
Dev - Ref, Dynamic Range
−3
0
3
s-1
1e−6
Difference
Dev - Ref, Restricted Range [5%,95%]
−1.5
0.0
1.5
s-1
1e−6
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

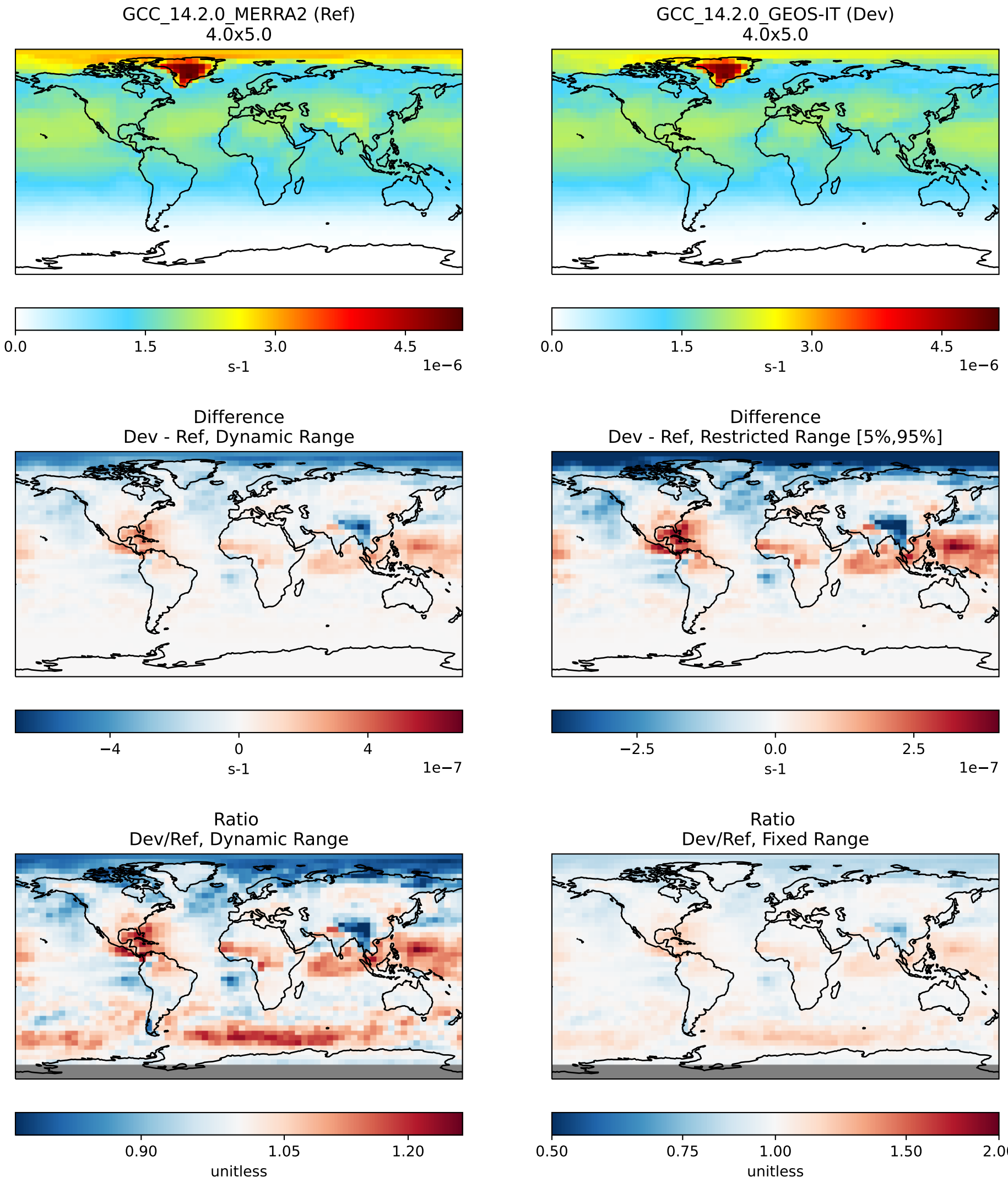
Jval_RIPA


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

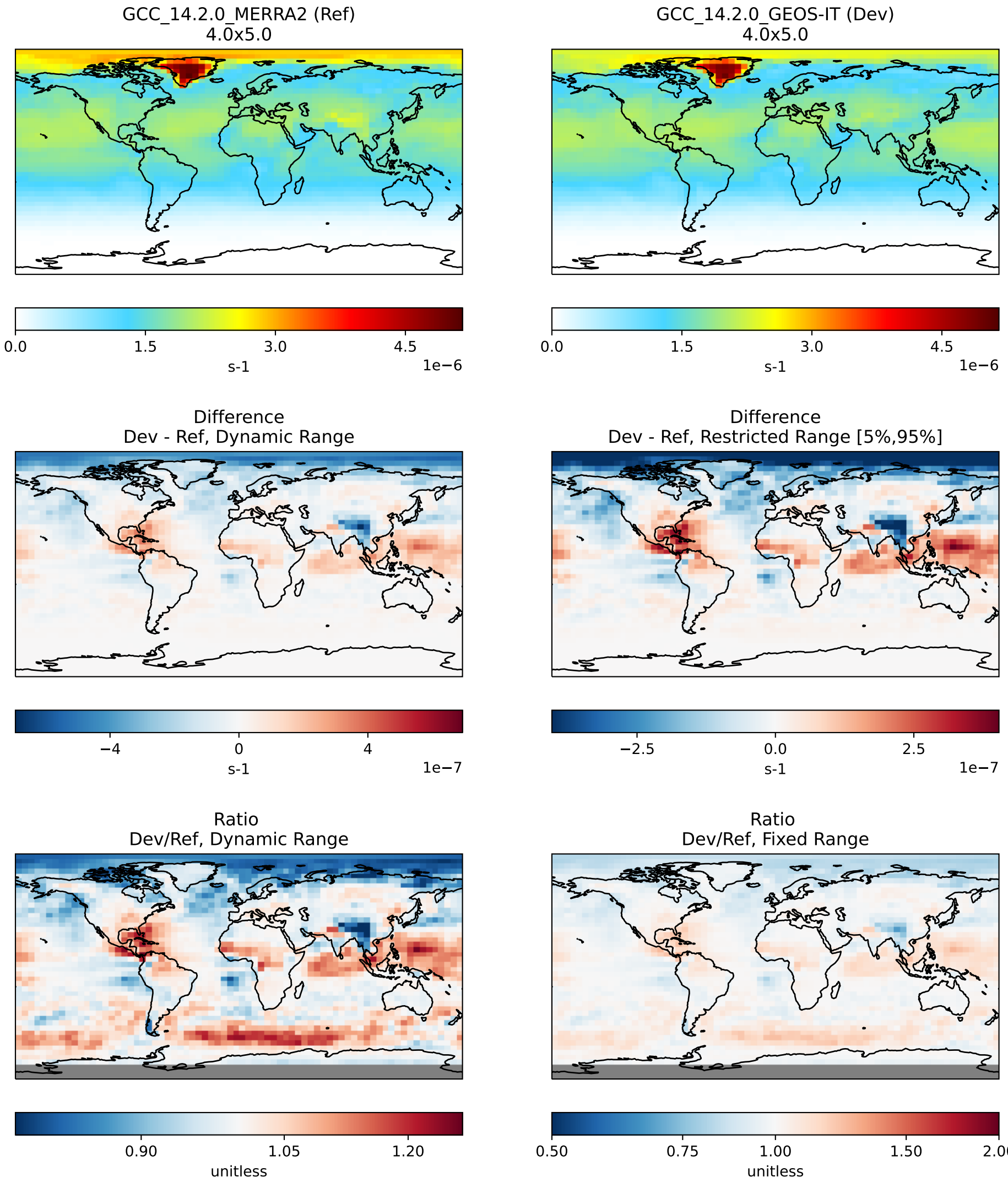
Jval_RIPB


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

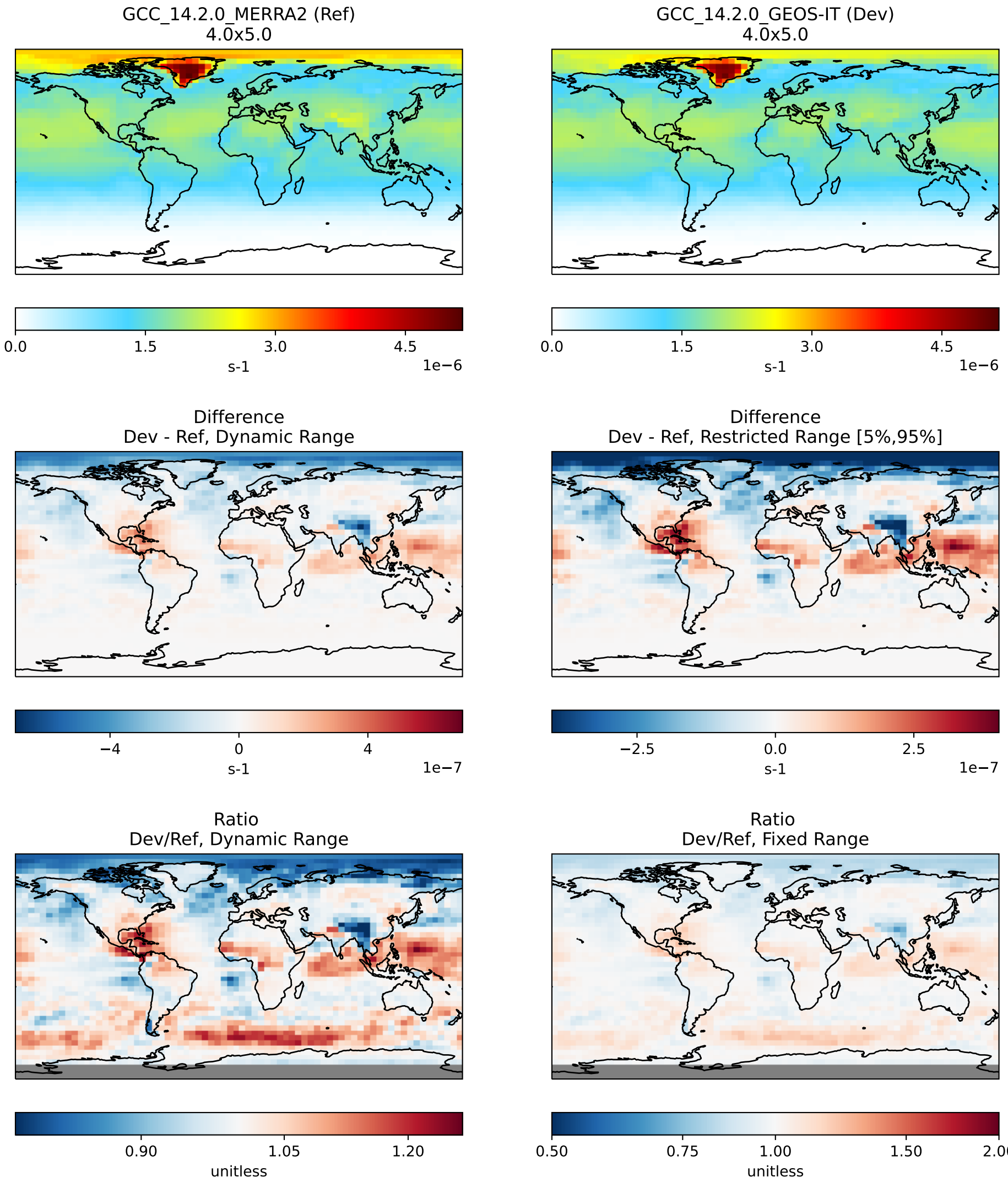
Jval_RIPC


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

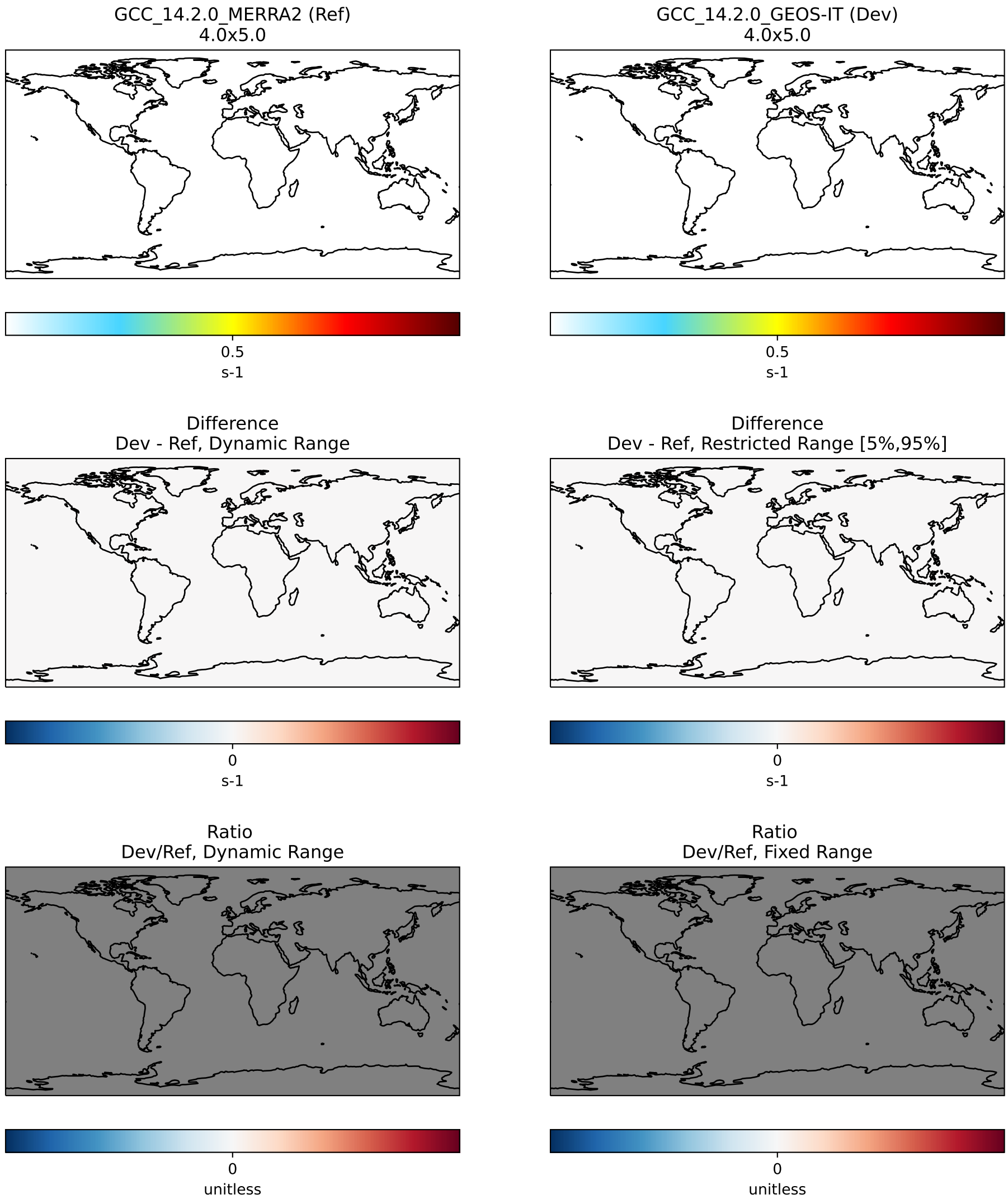
Jval_RIPD


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

Jval_RP


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.0
1.5
3.0
4.5
s-1
1e−6
Difference
Dev - Ref, Dynamic Range
−4
0
4
s-1
1e−7
Difference
Dev - Ref, Restricted Range [5%,95%]
−2.5
0.0
2.5
s-1
1e−7
Ratio
Dev/Ref, Dynamic Range
0.90
1.05
1.20
unitless
Ratio
Dev/Ref, Fixed Range
0.50
0.75
1.00
1.50
2.00
unitless

Jval_SO4


GCC_14.2.0_MERRA2 (Ref)
4.0x5.0
0.5
s-1
GCC_14.2.0_GEOS-IT (Dev)
4.0x5.0
0.5
s-1
Difference
Dev - Ref, Dynamic Range
0
s-1
Difference
Dev - Ref, Restricted Range [5%,95%]
0
s-1
Ratio
Dev/Ref, Dynamic Range
0
unitless
Ratio
Dev/Ref, Fixed Range
0
unitless