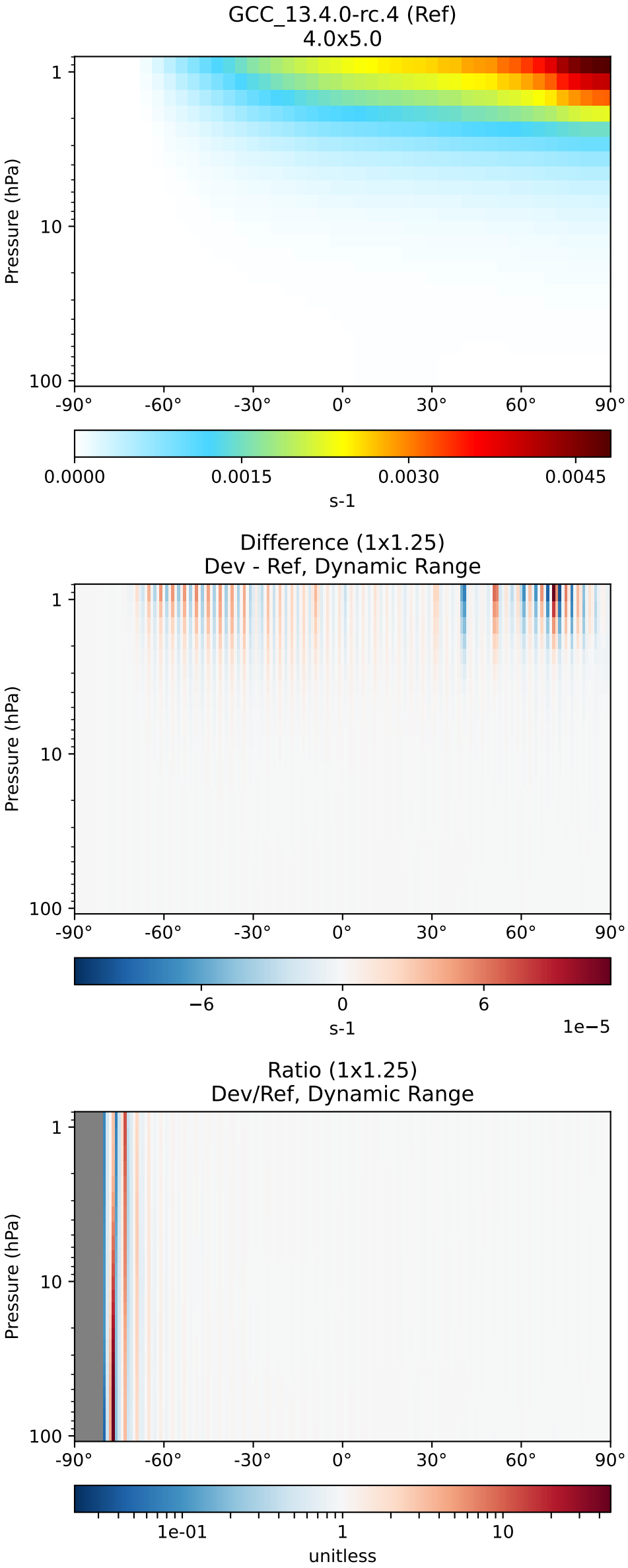
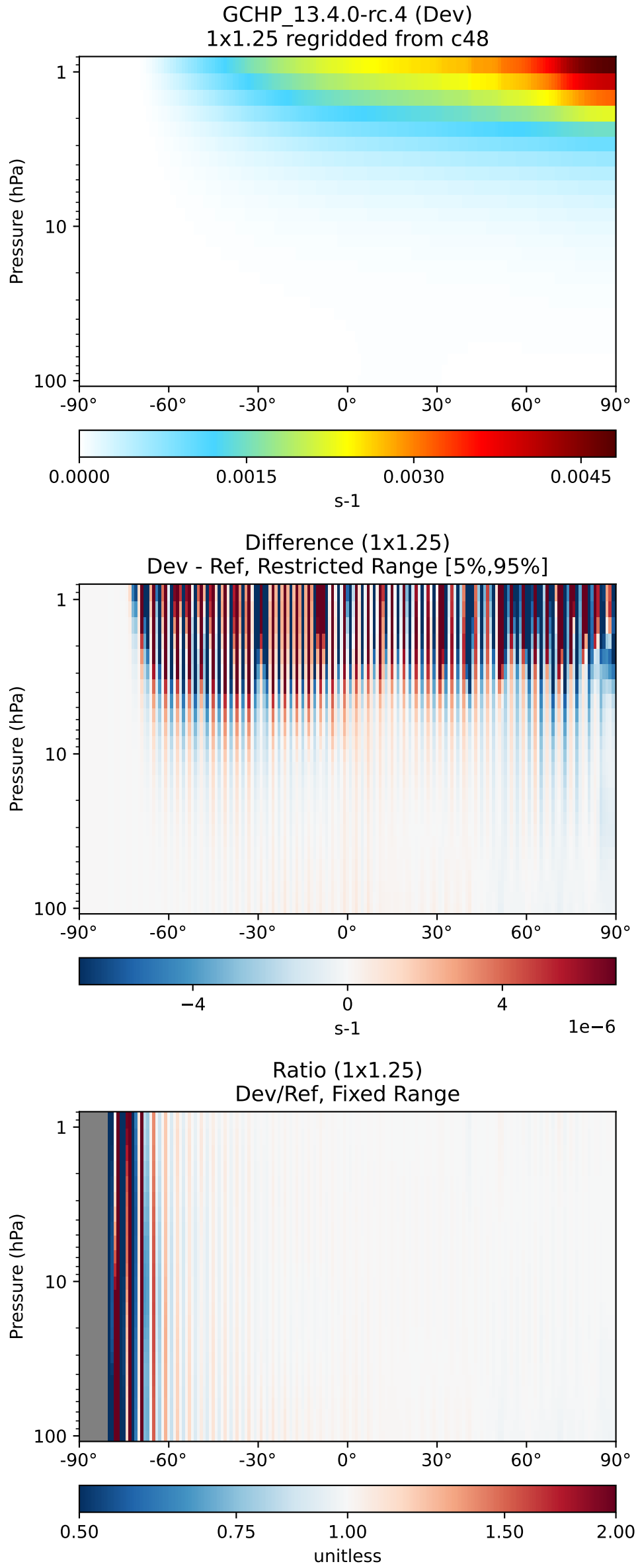
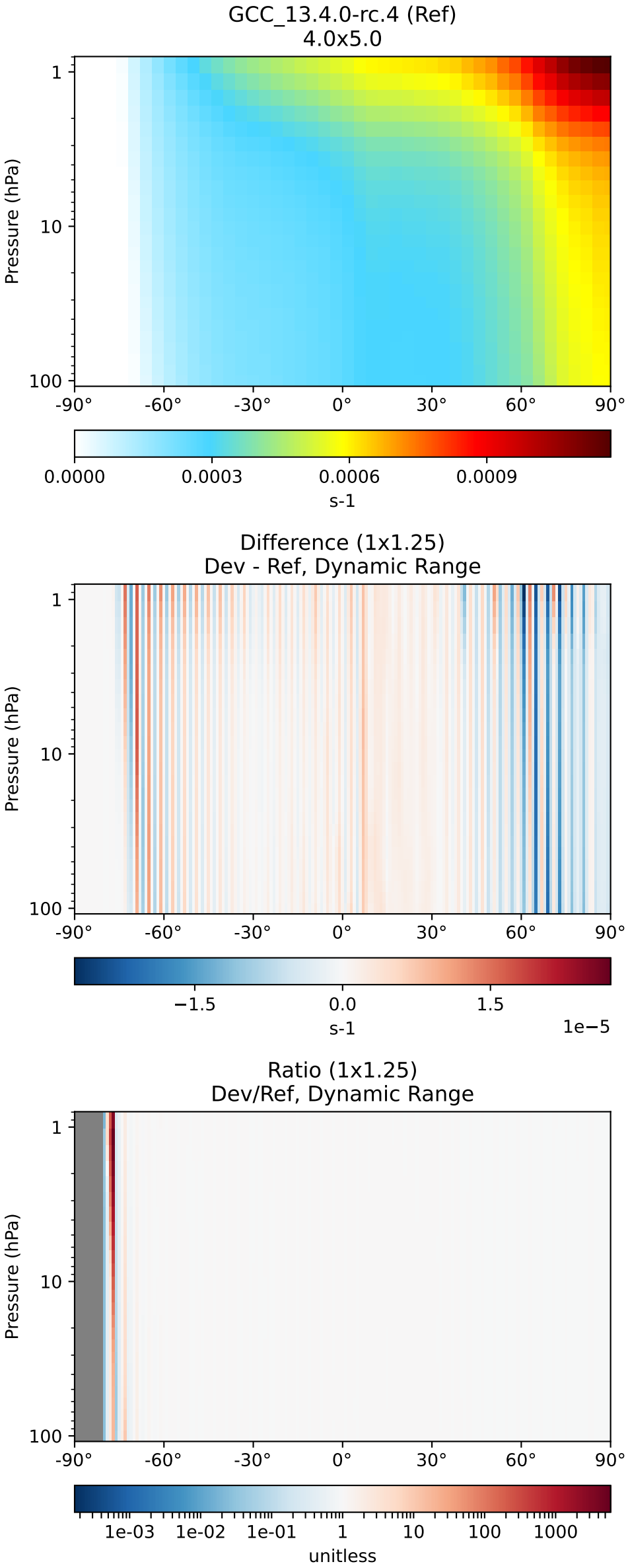
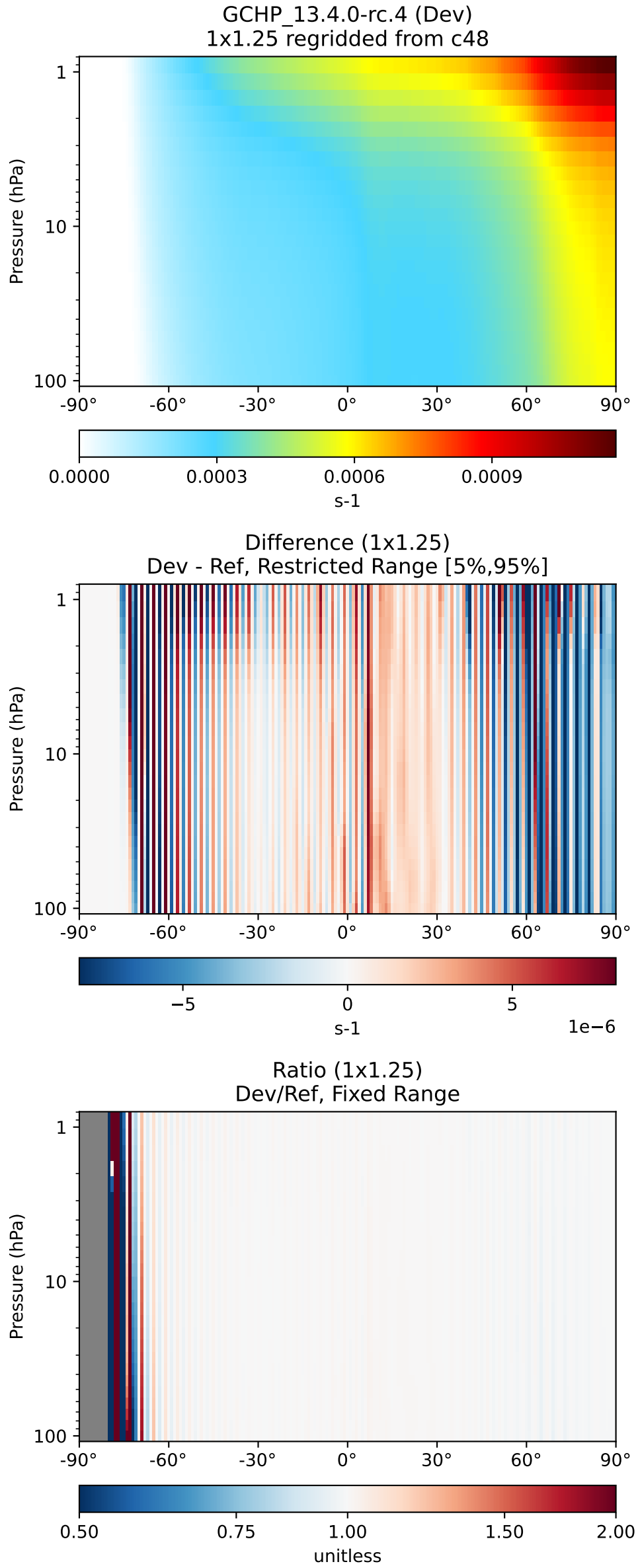
JvalO3O1D, Zonal Mean



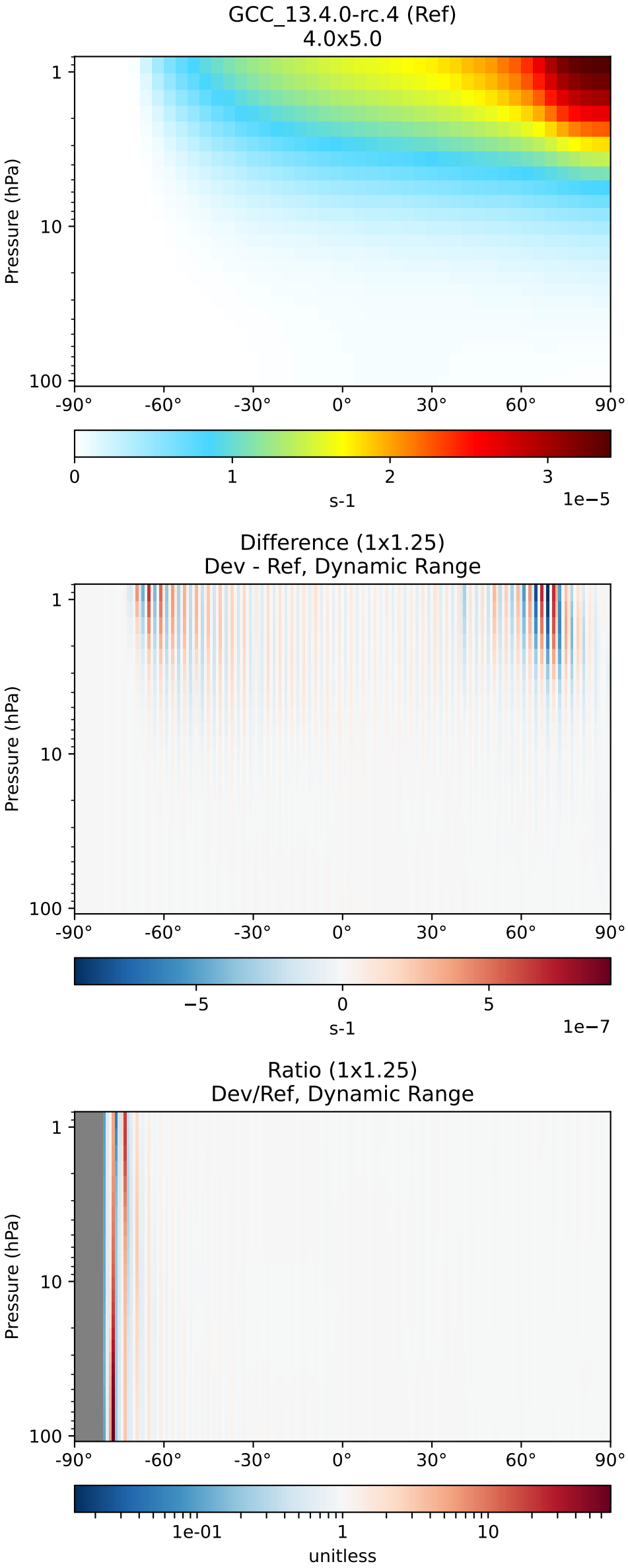


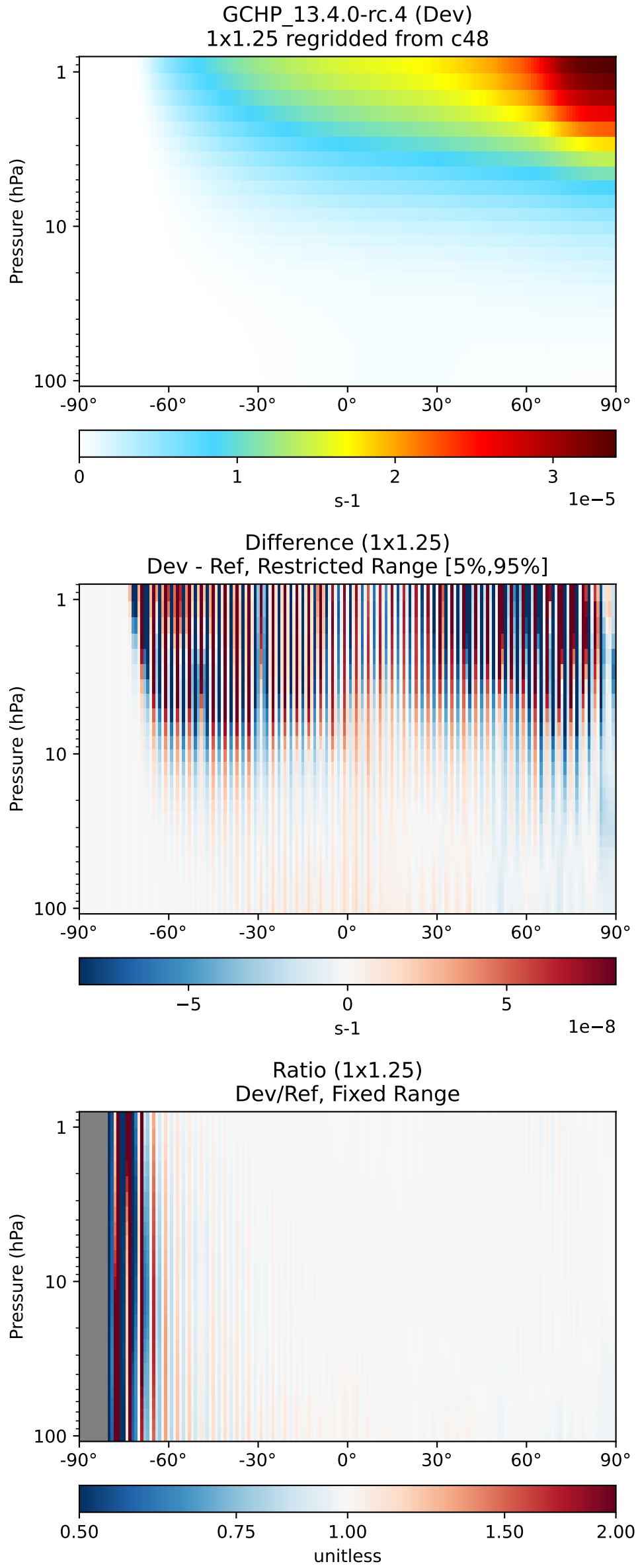
JvalO3O3P, Zonal Mean



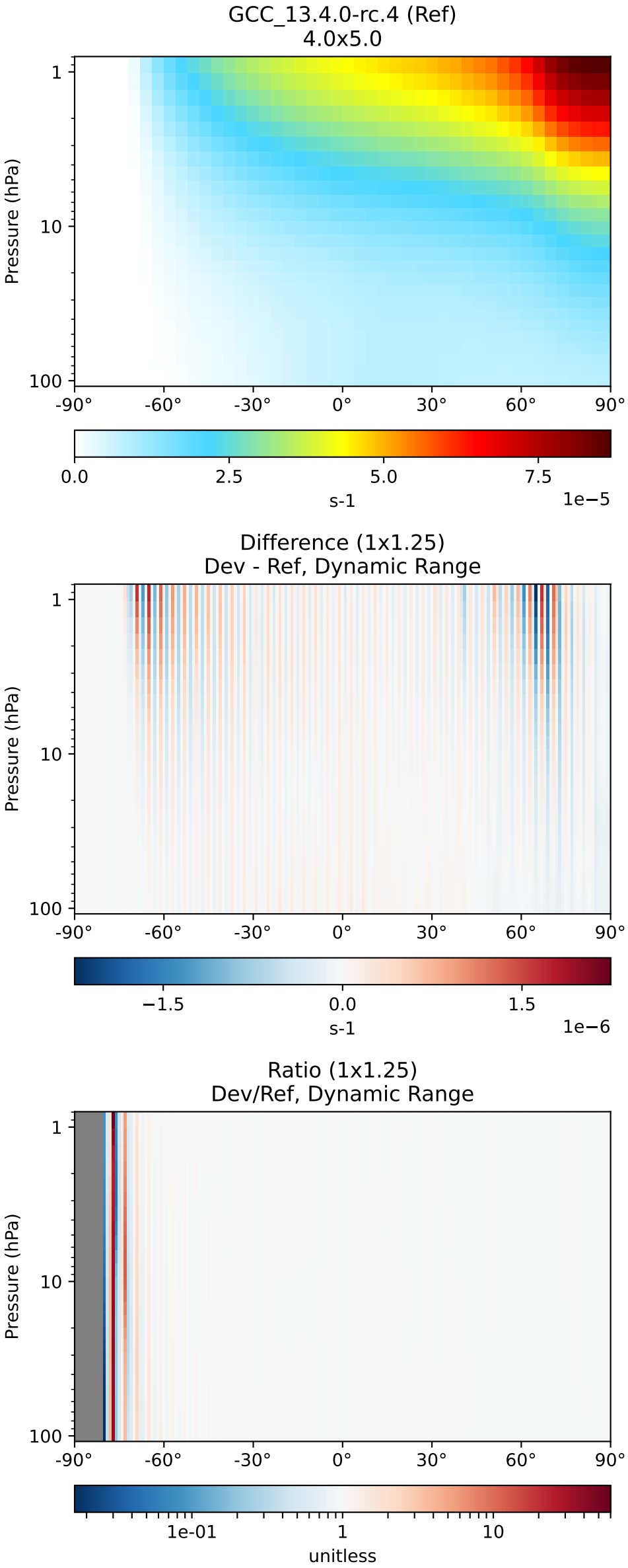


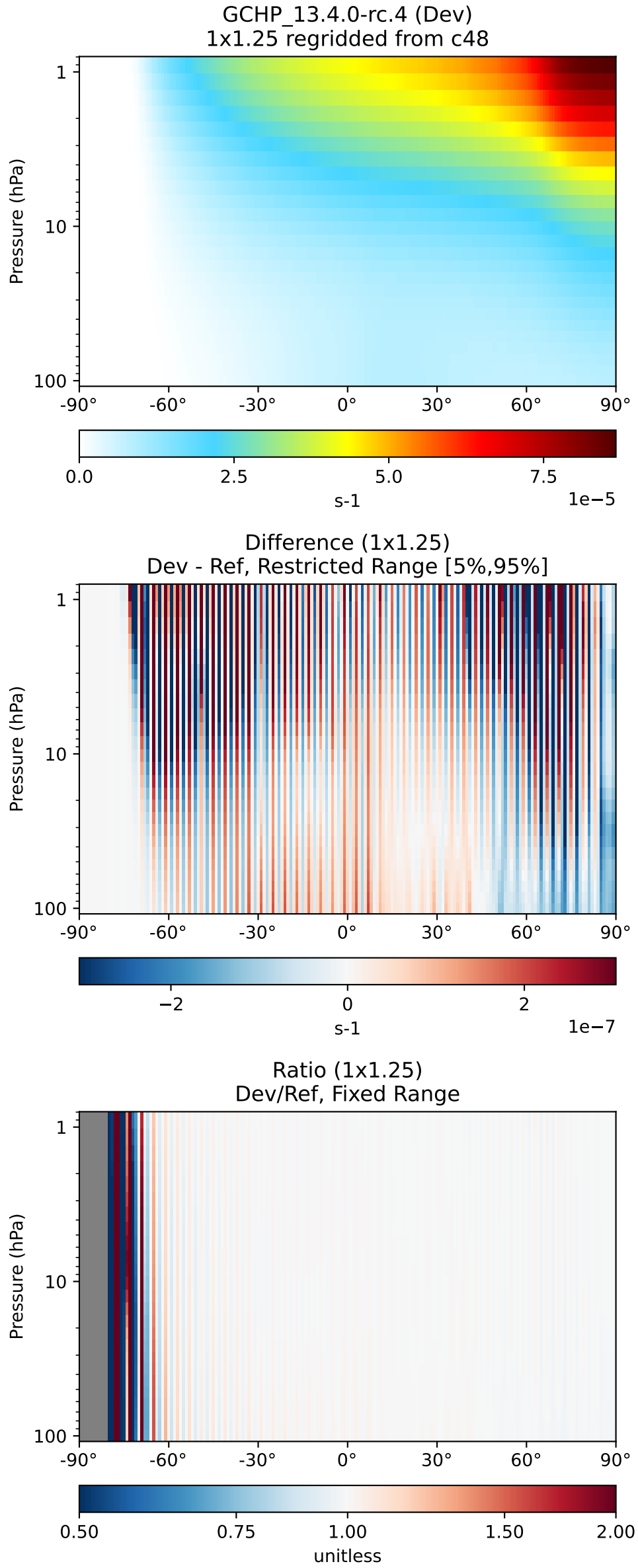
Jval_ACET, Zonal Mean



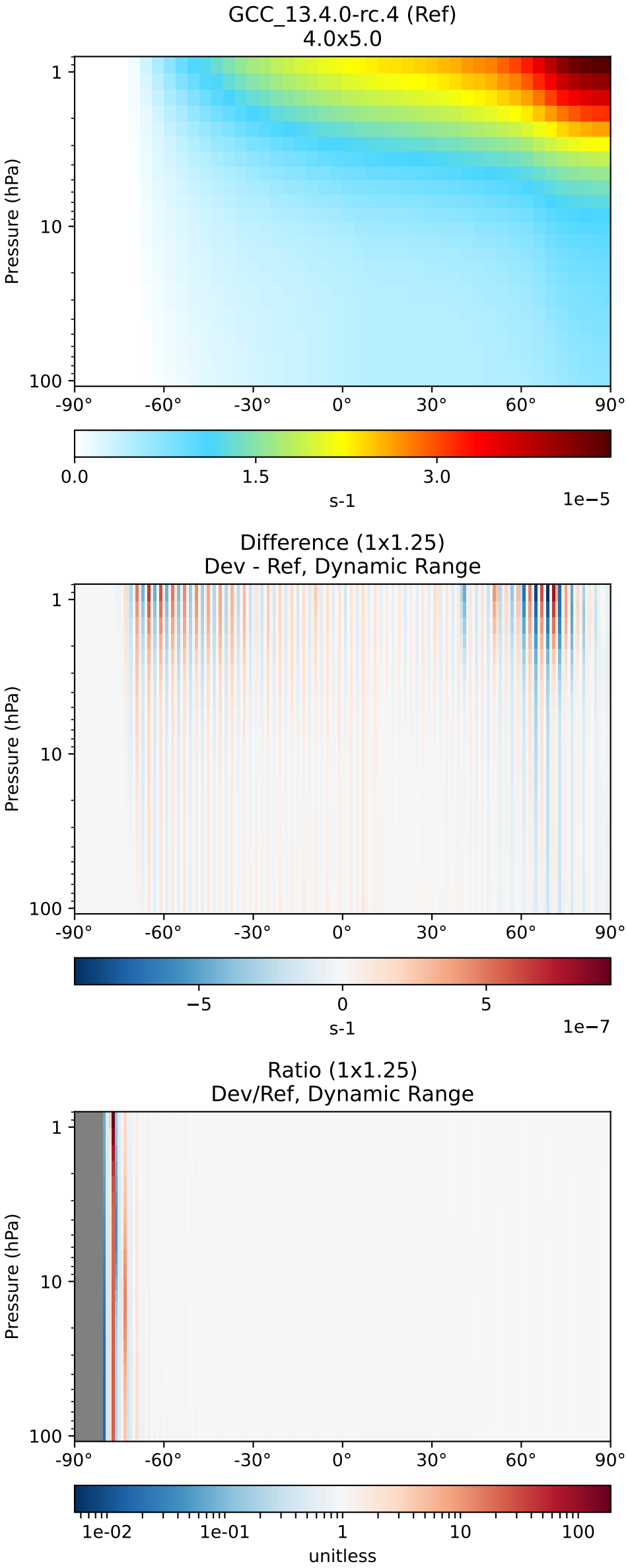


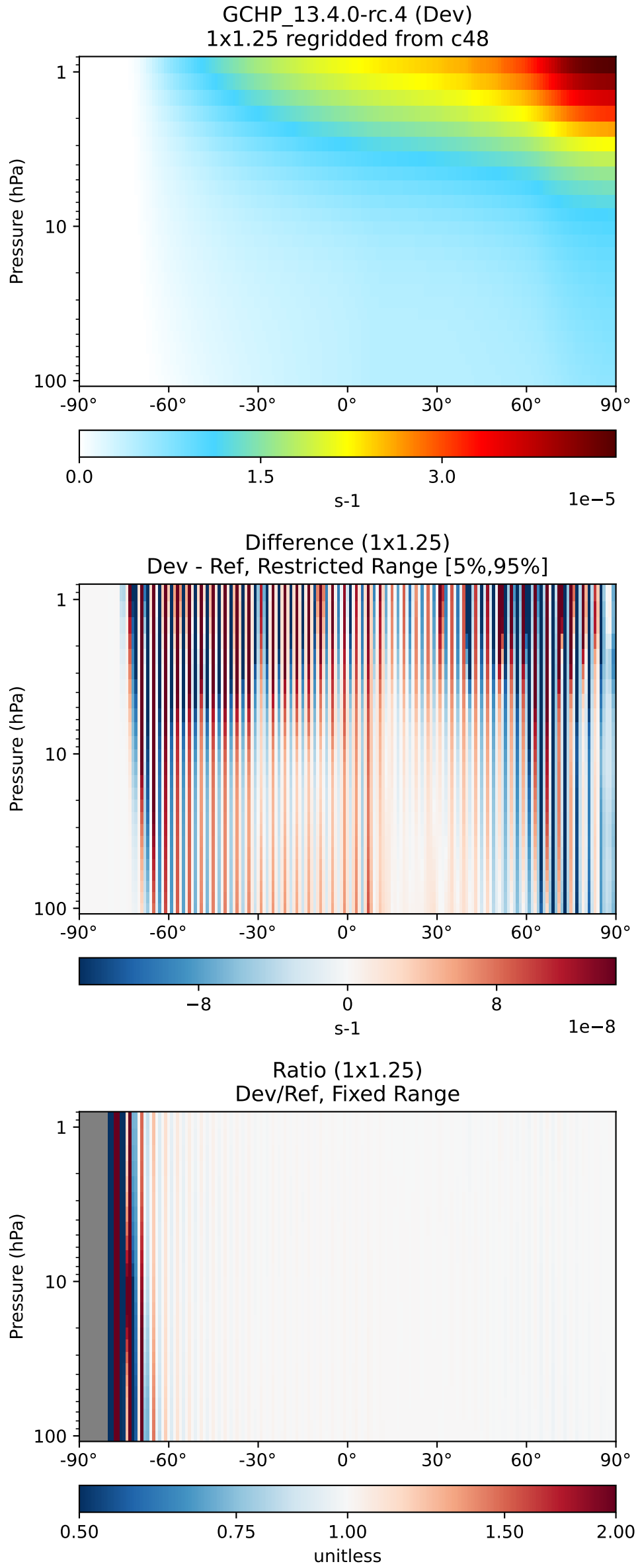
Jval_ALD2, Zonal Mean





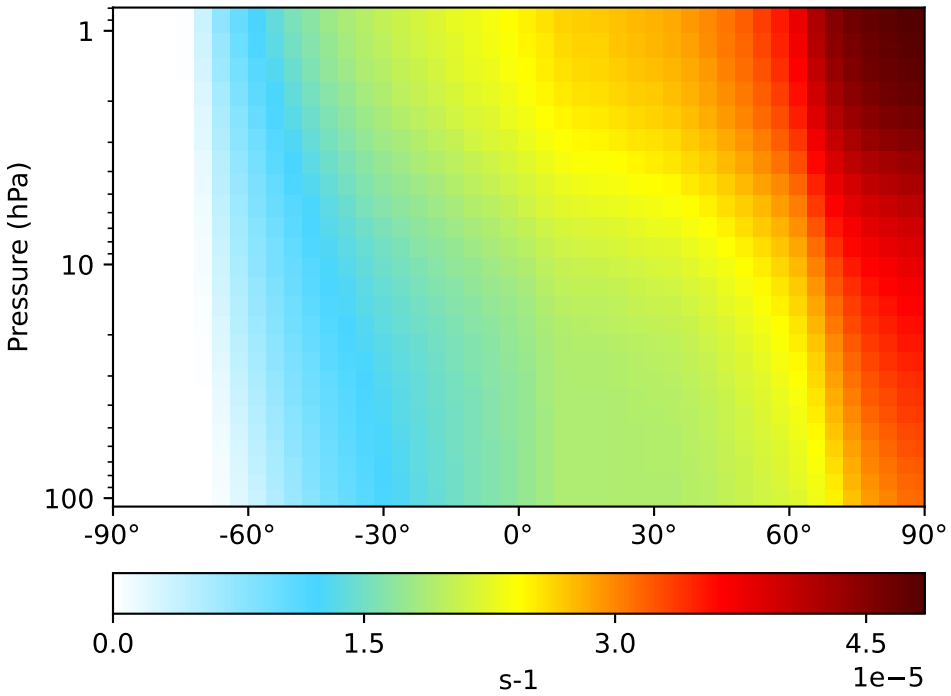
Jval_ATOOH, Zonal Mean



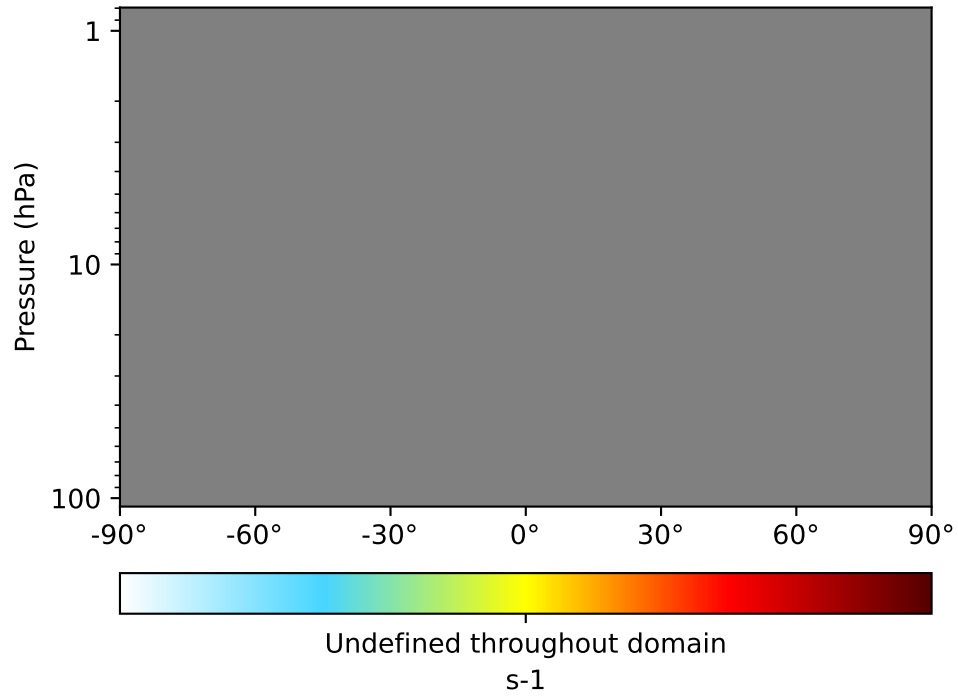


Jval_BALD, Zonal Mean

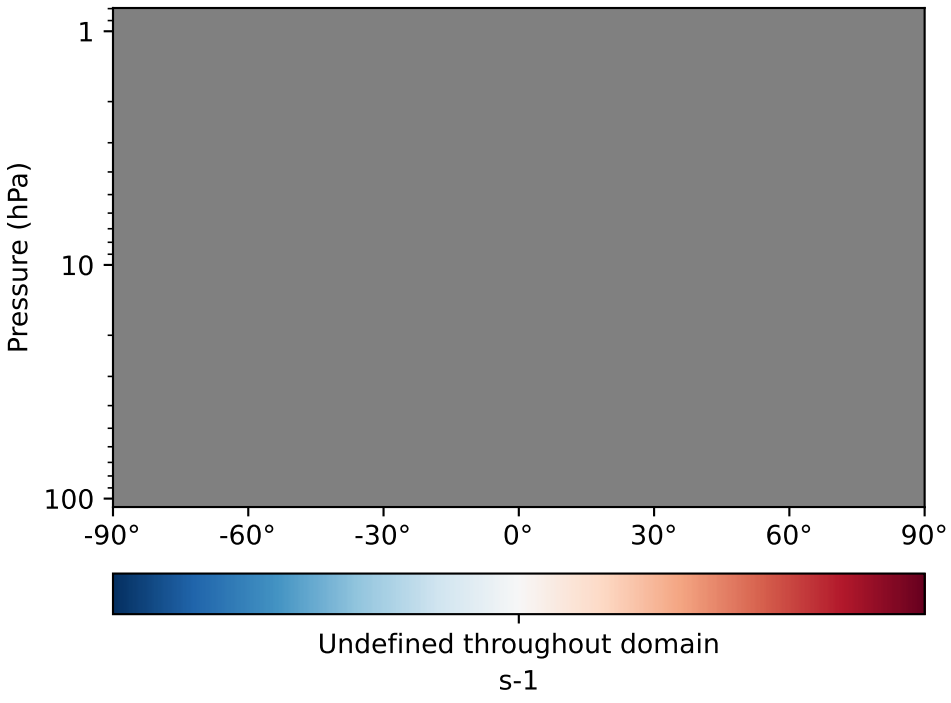
GCC_13.4.0-rc.4 (Ref)
4.0x5.0



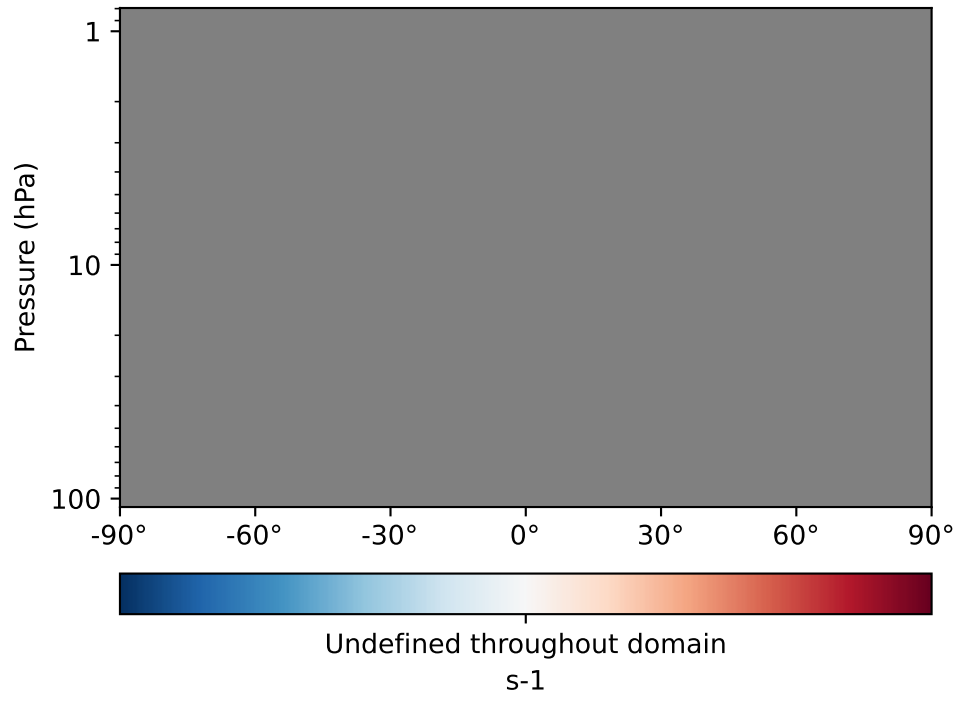
GCHP_13.4.0-rc.4 (Dev)
1x1.25 regridded from c48



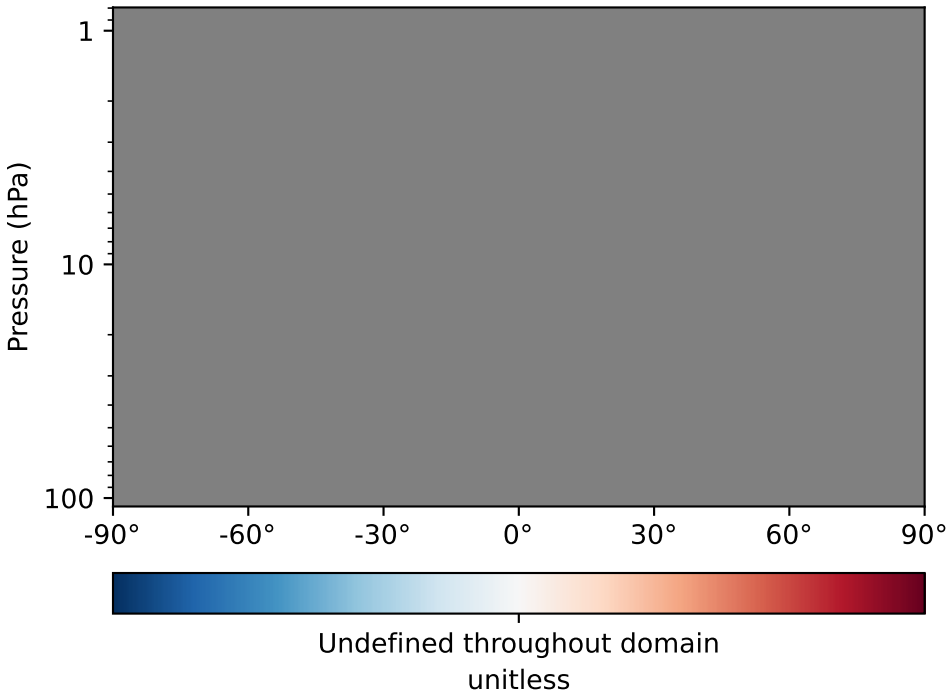
Difference (1x1.25)
Dev - Ref, Dynamic Range



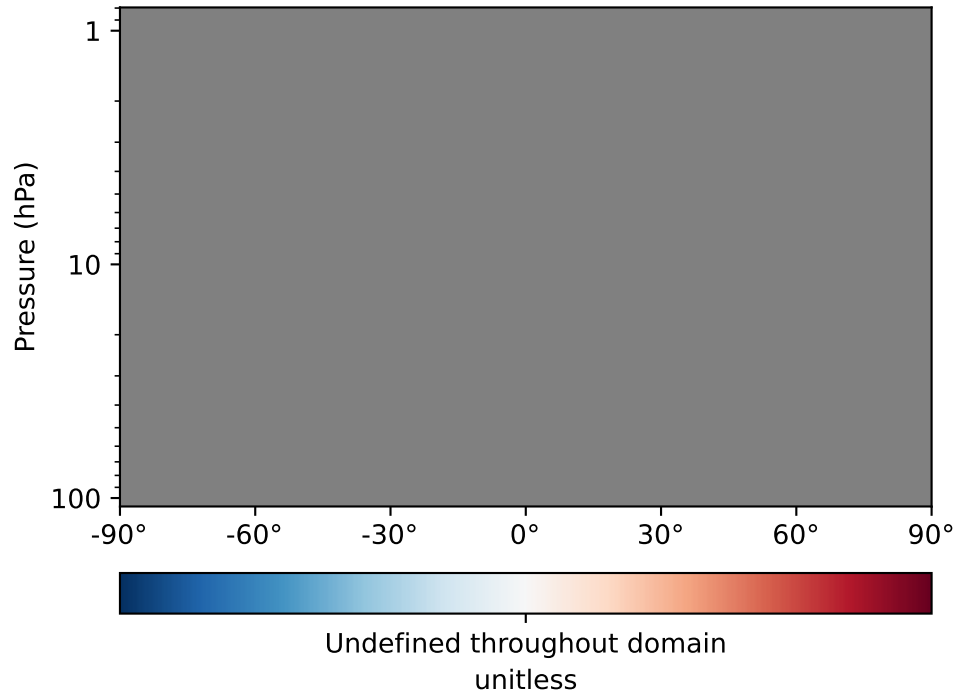
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



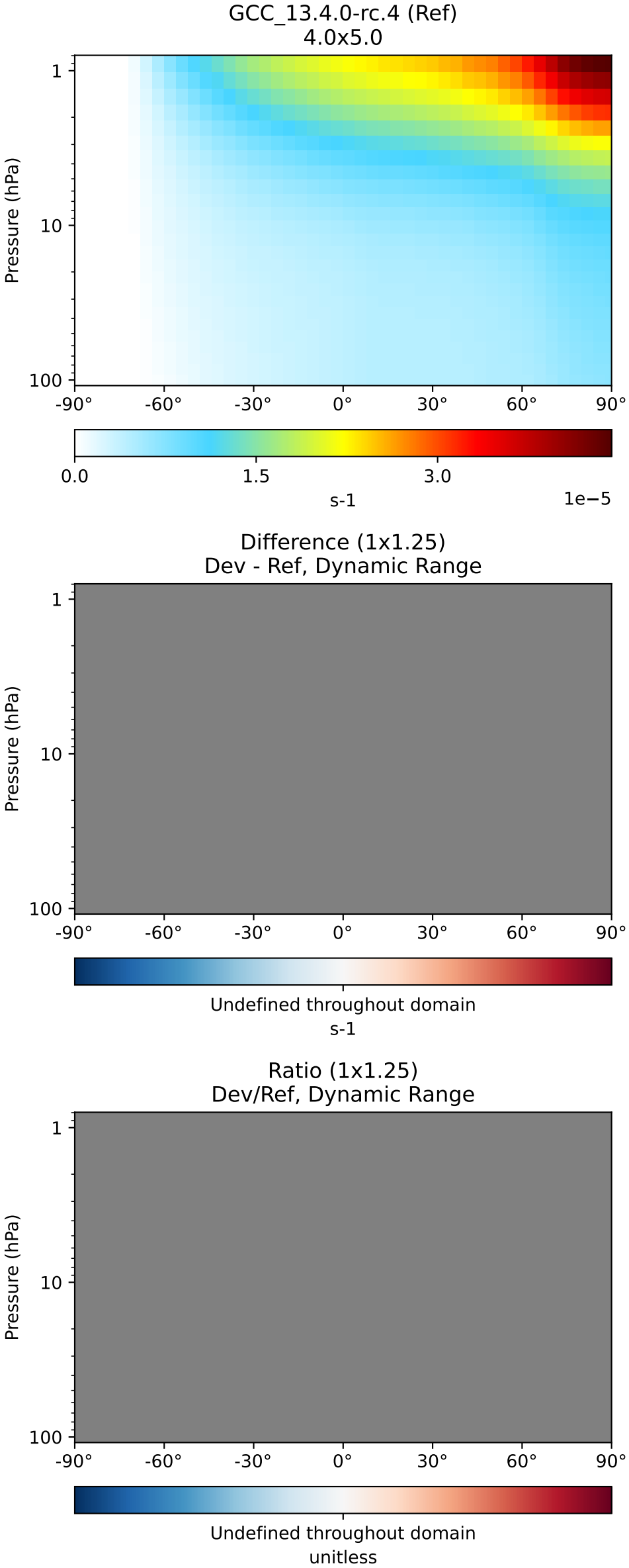
Ratio (1x1.25)
Dev/Ref, Dynamic Range

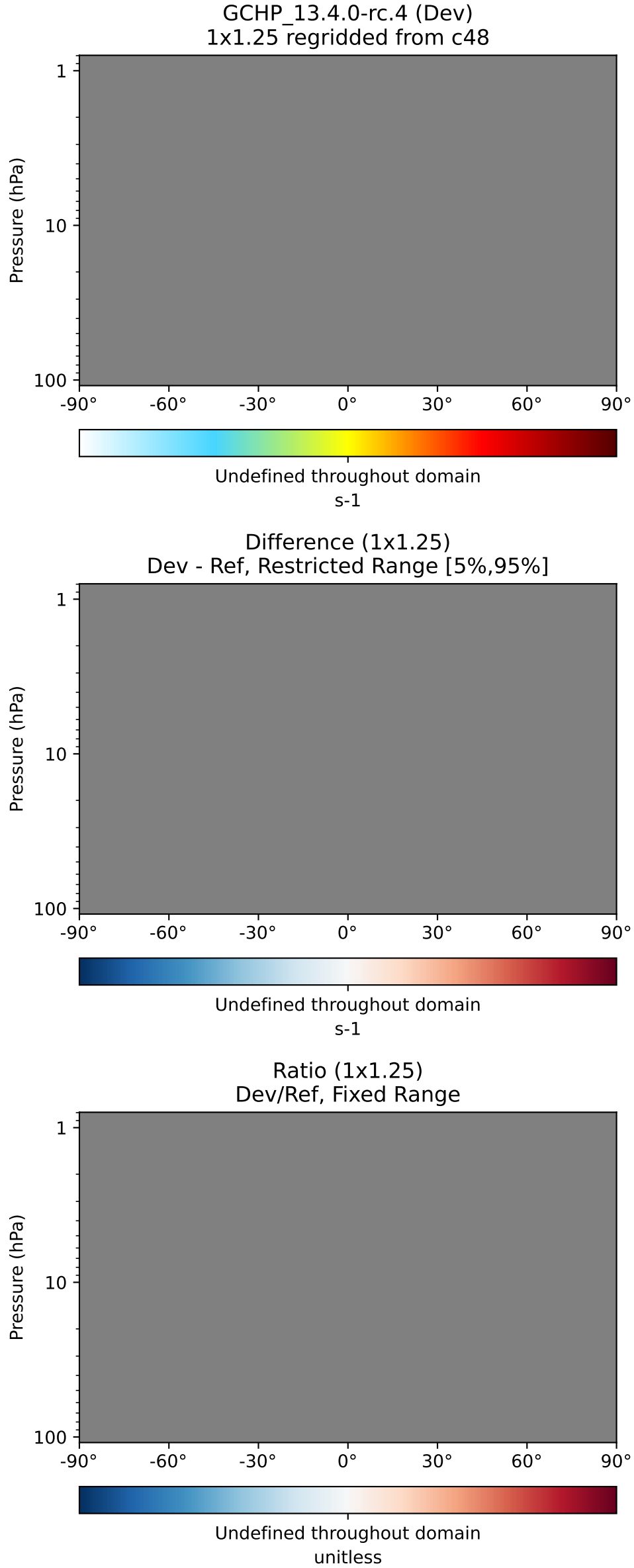


Ratio (1x1.25)
Dev/Ref, Fixed Range

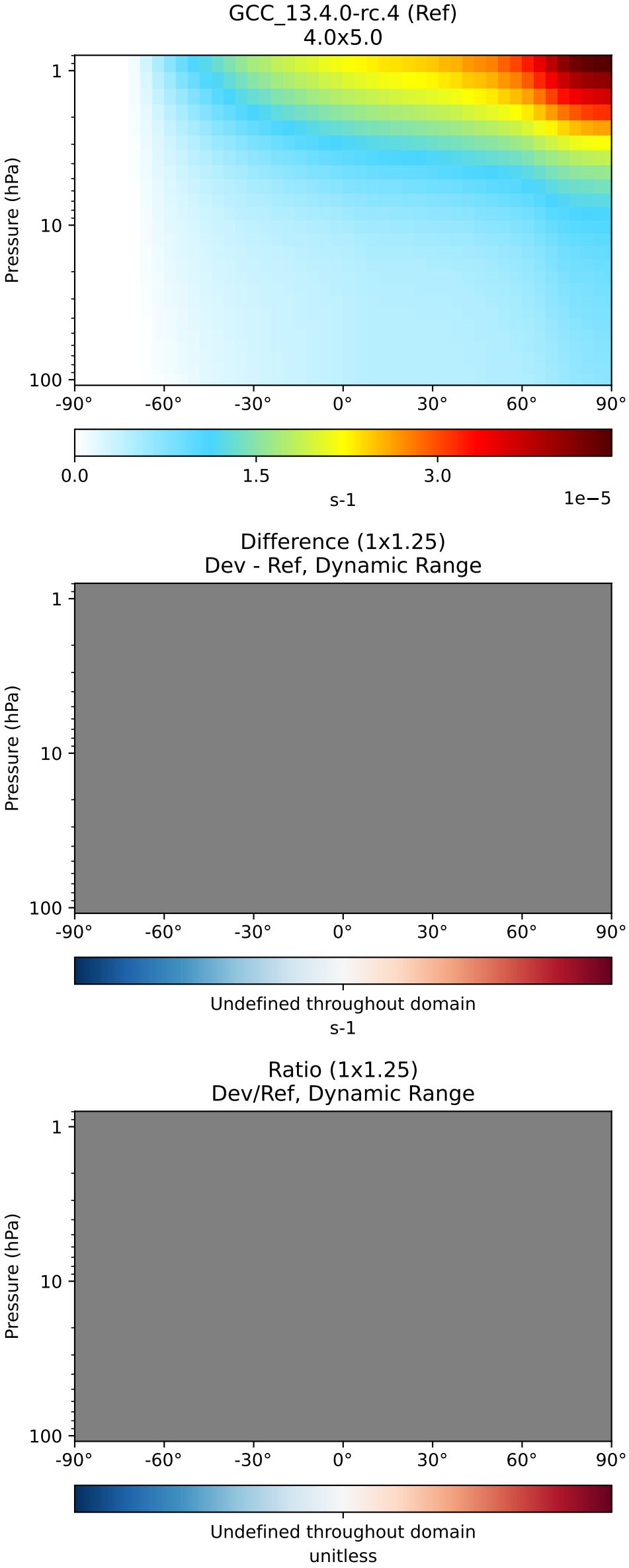


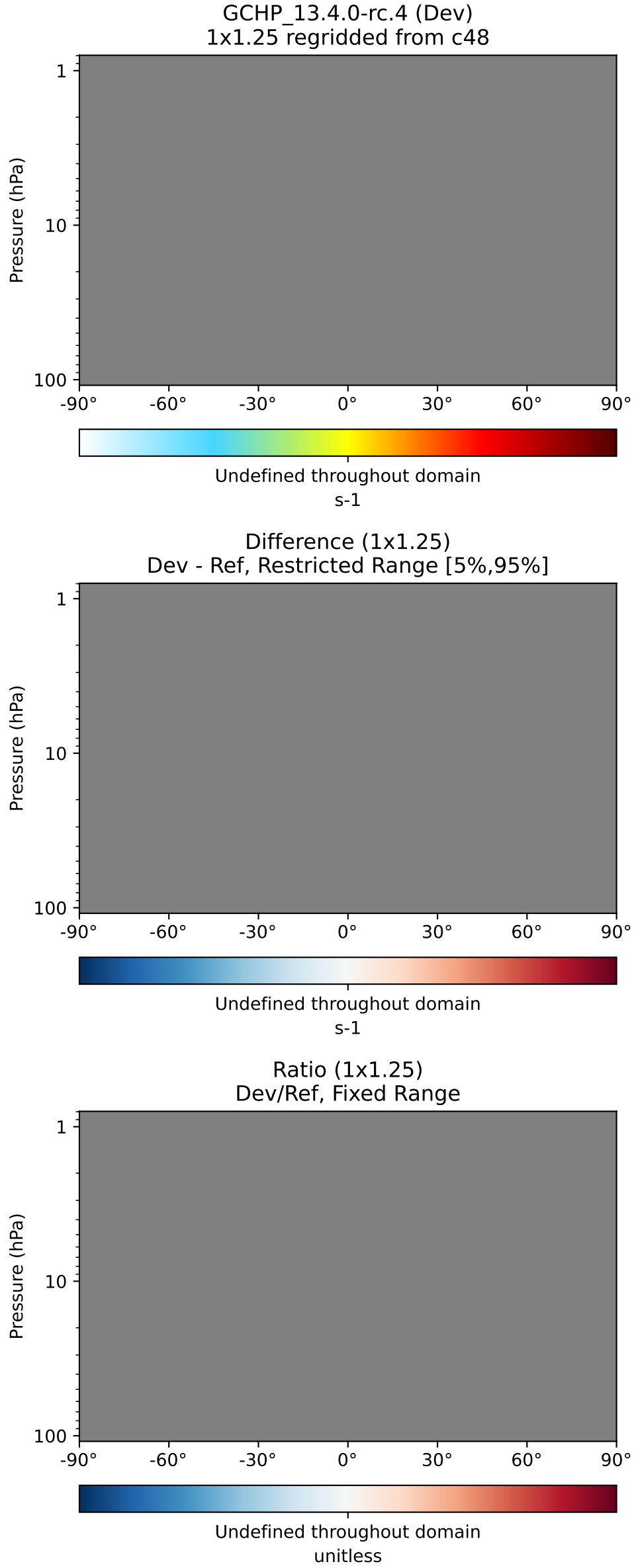
Jval_BENZP, Zonal Mean



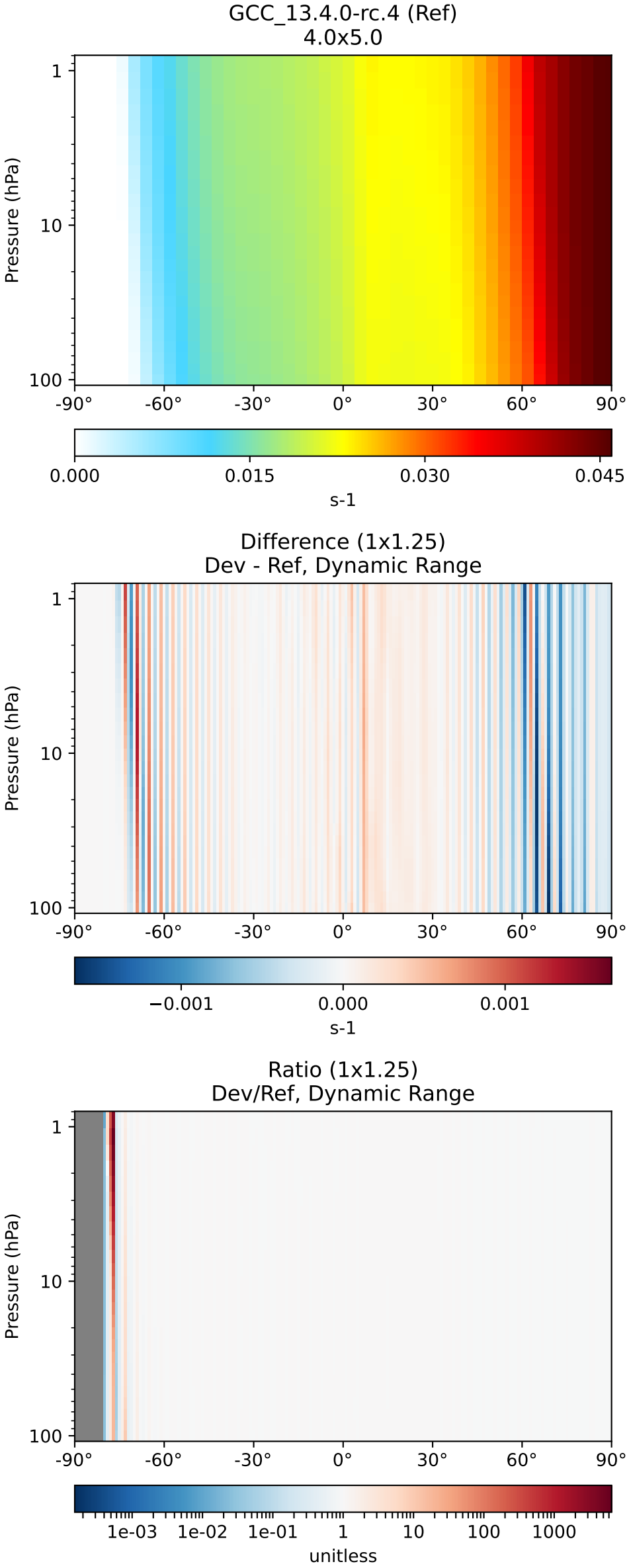


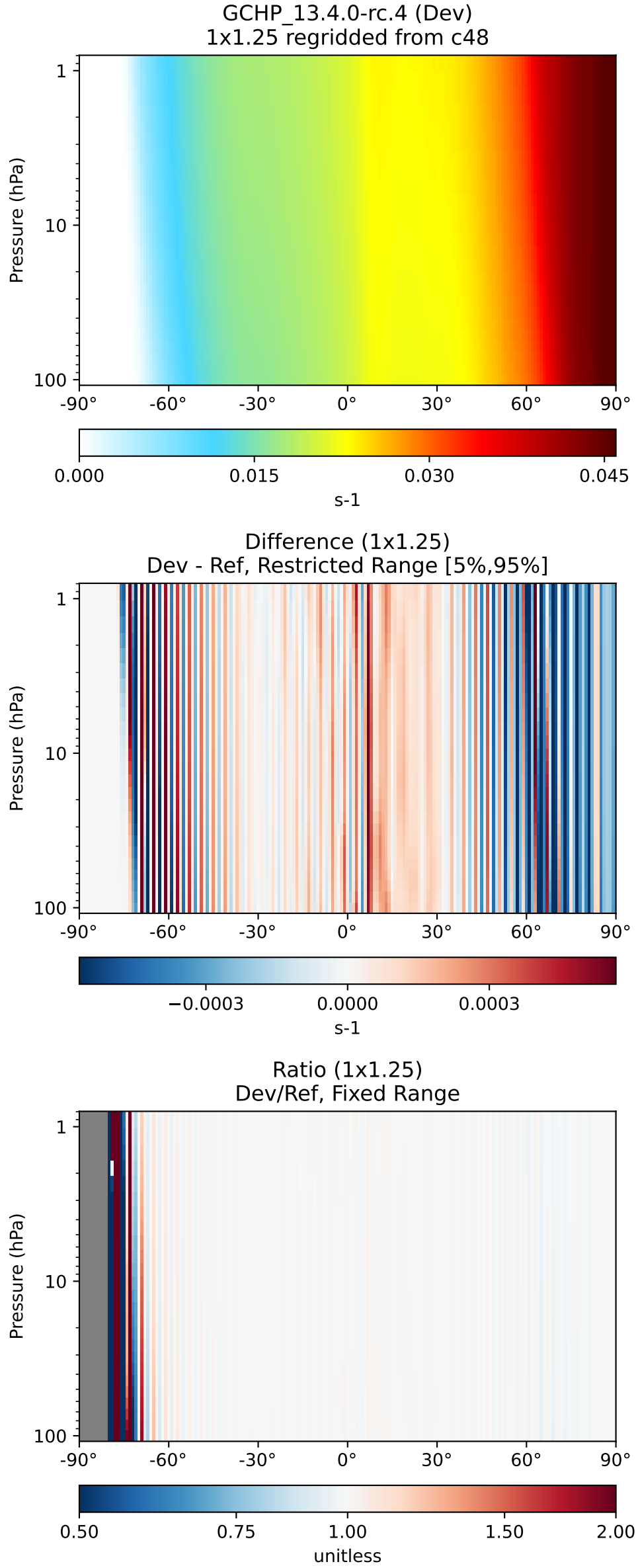
Jval_BZCO3H, Zonal Mean



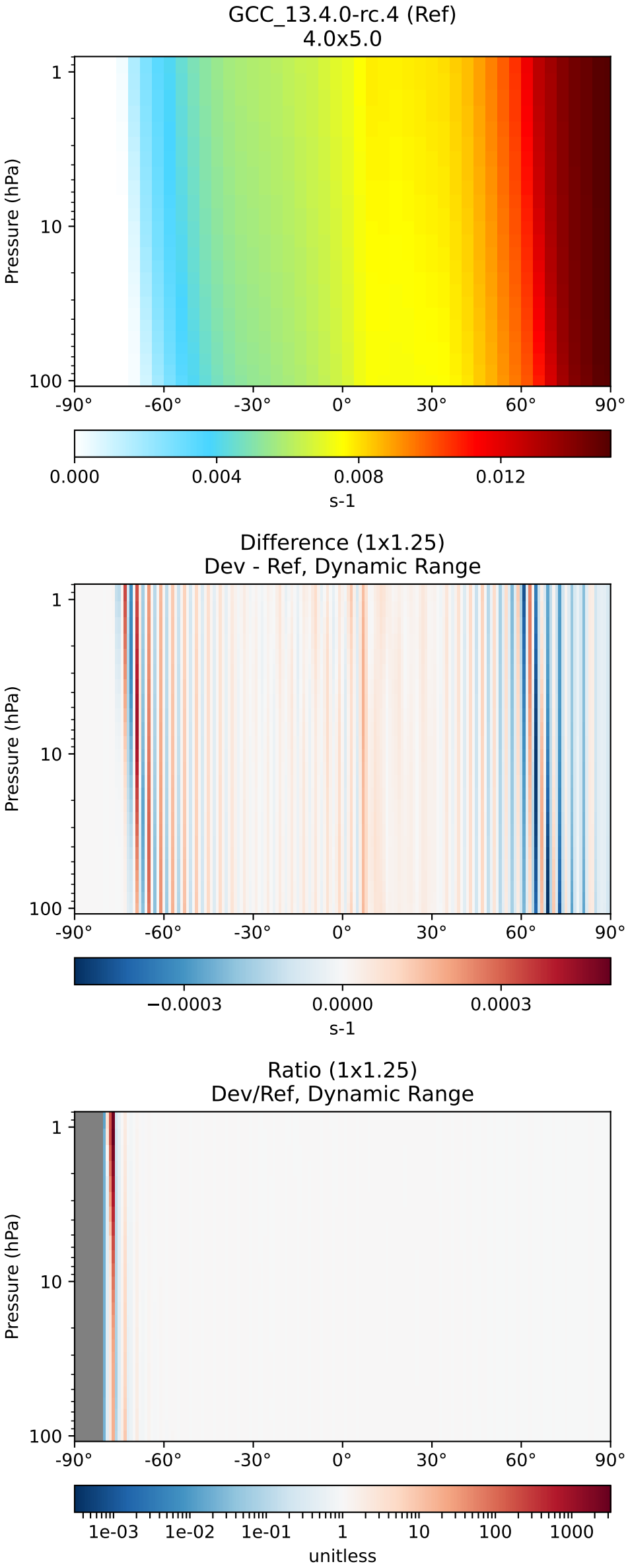


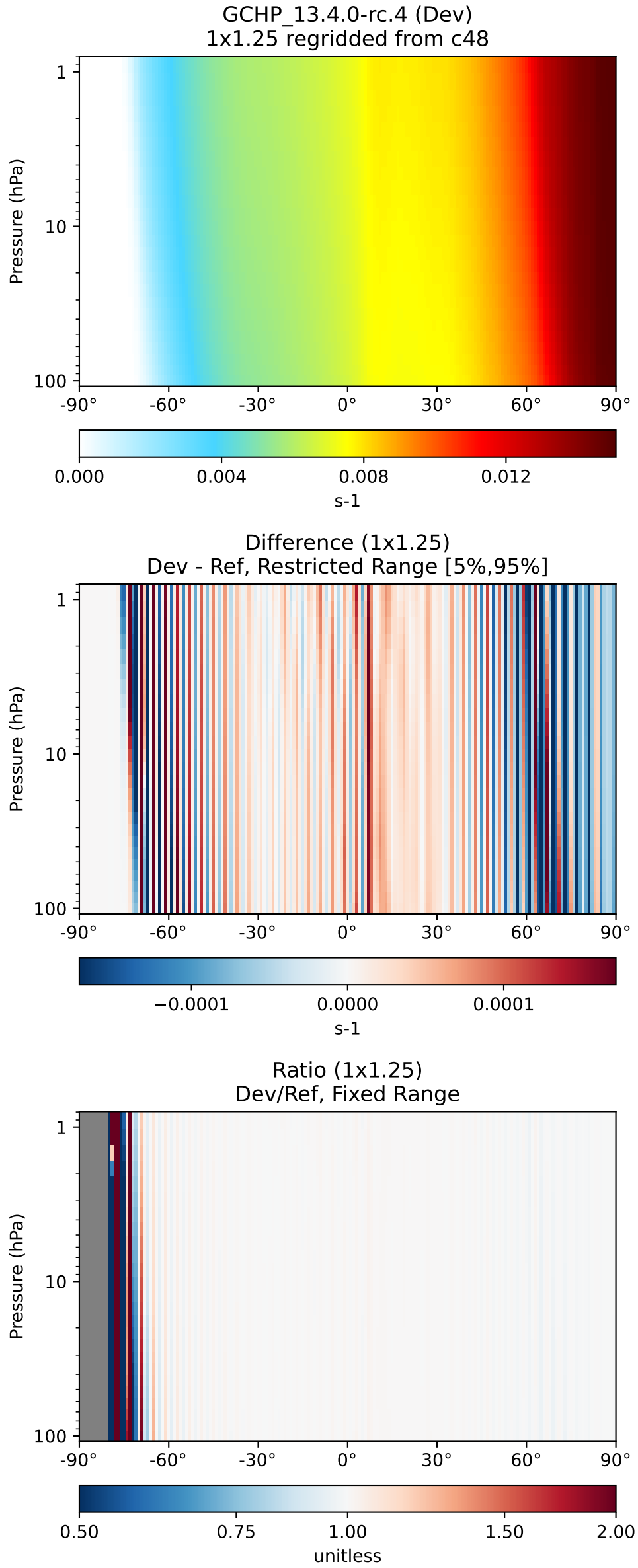
Jval_Br2, Zonal Mean



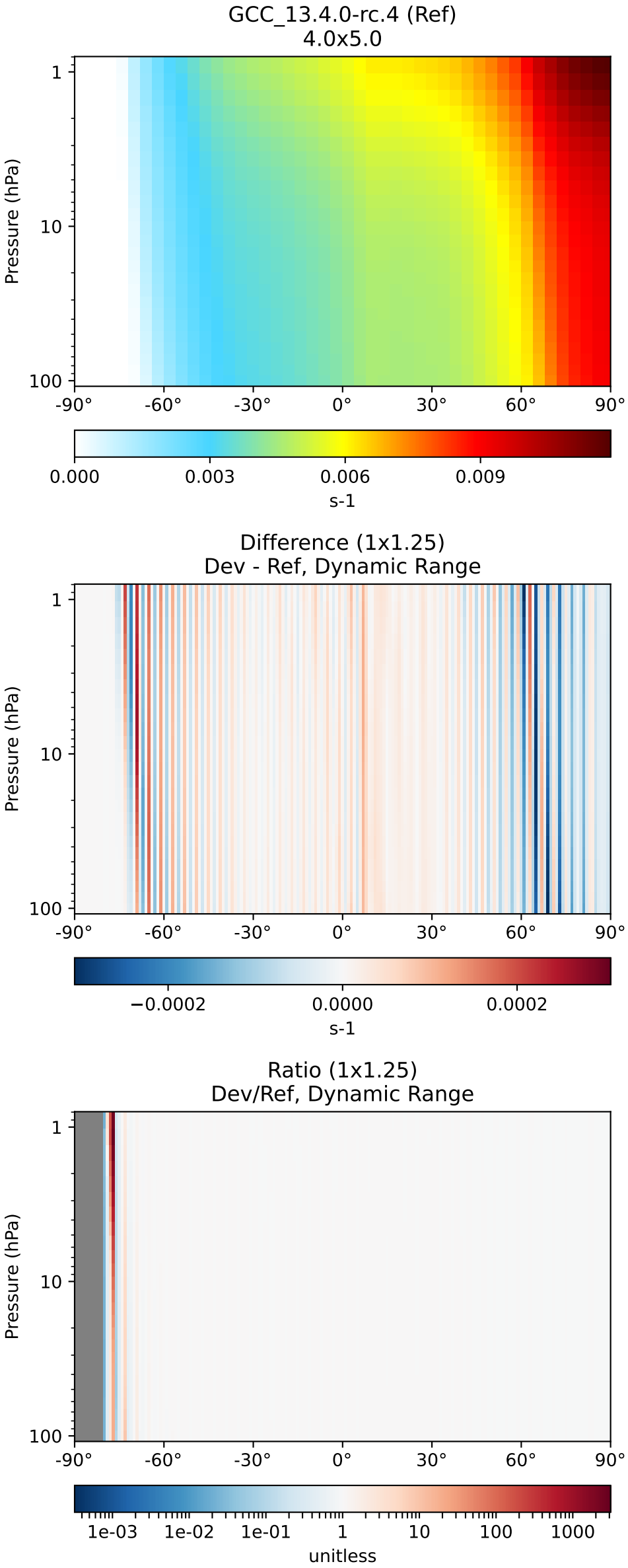


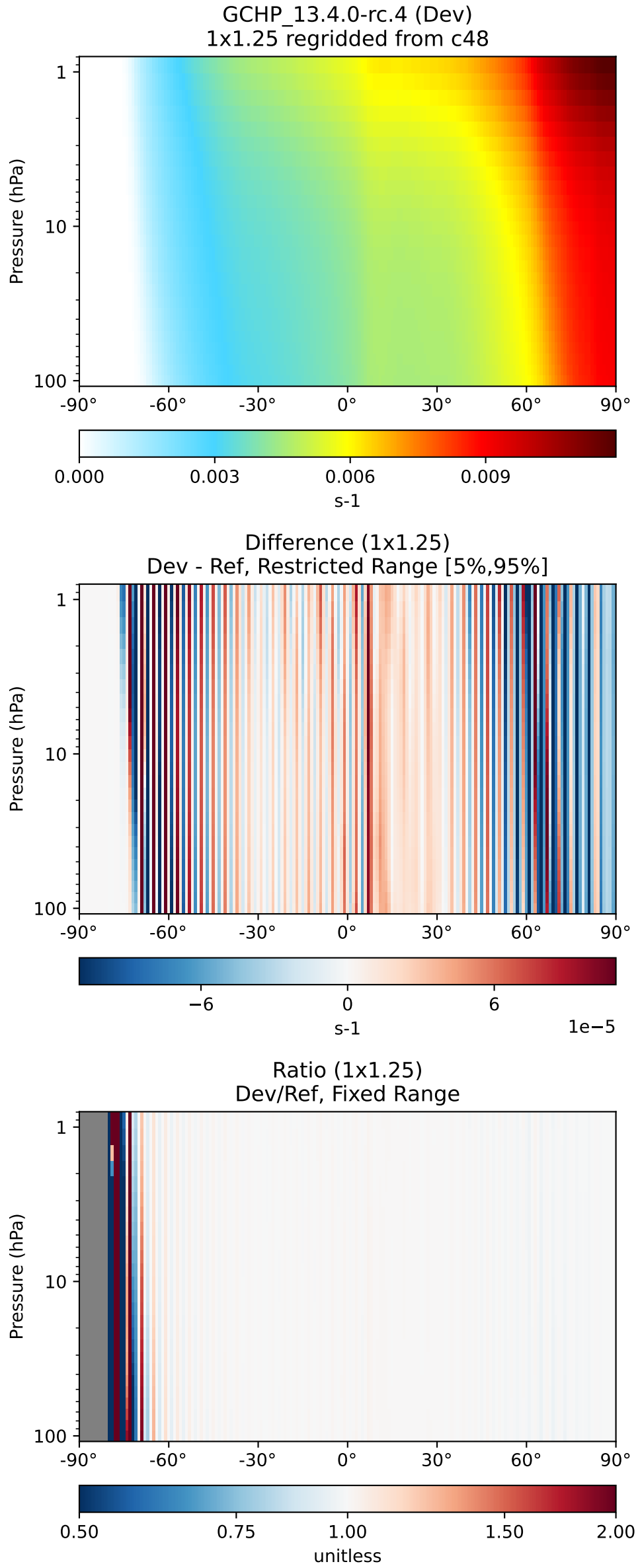
Jval_BrCl, Zonal Mean



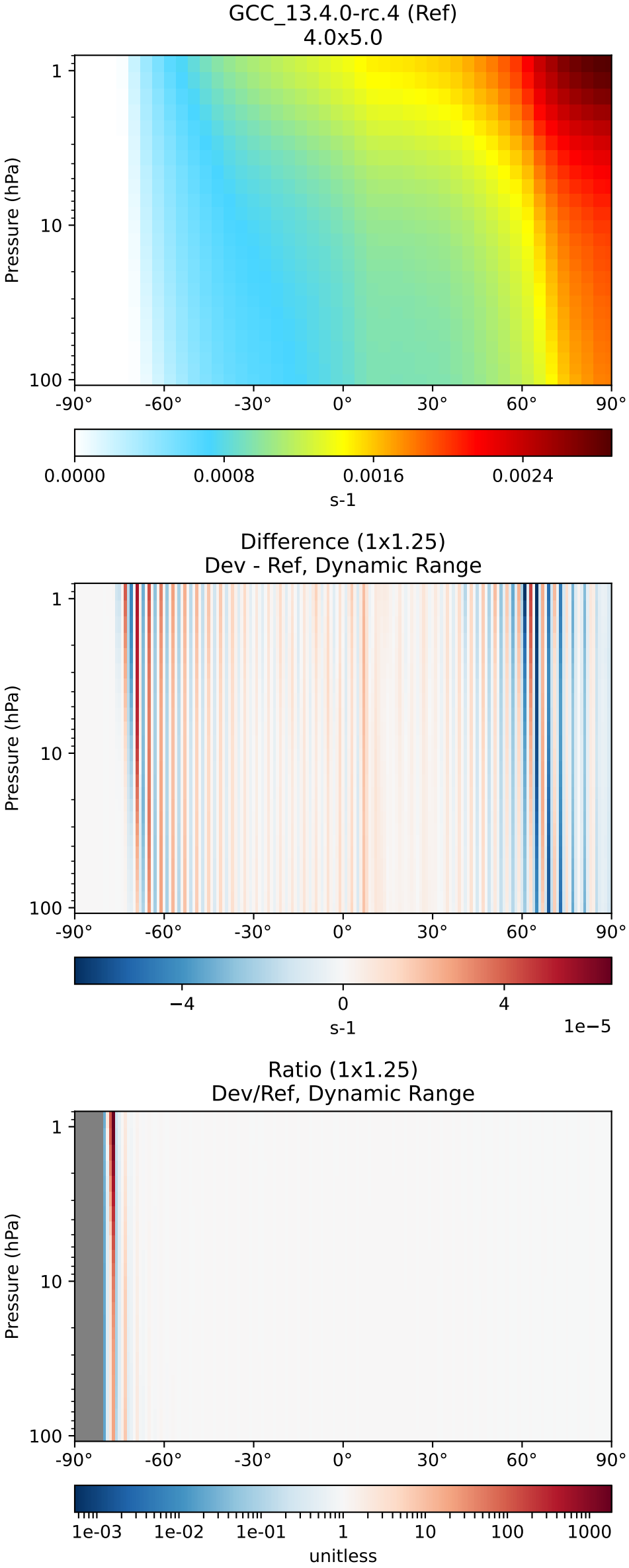


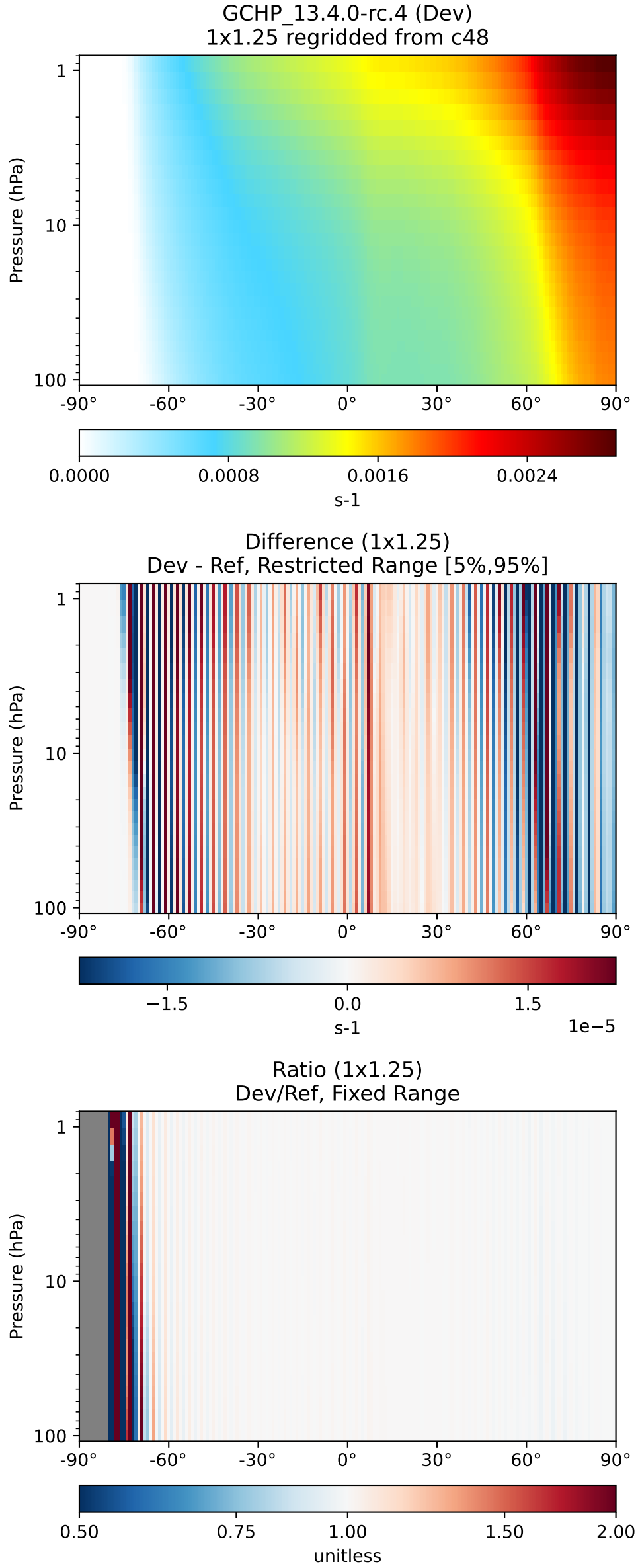
Jval_BrNO2, Zonal Mean



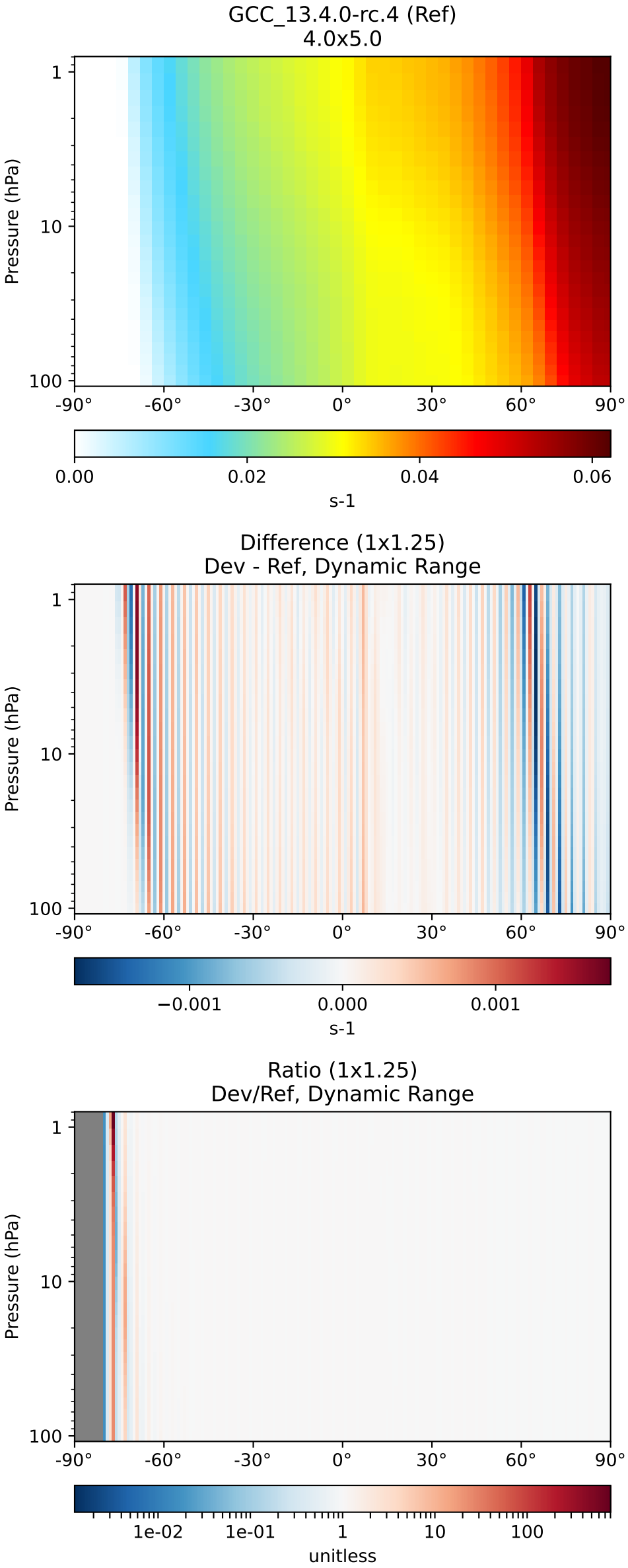


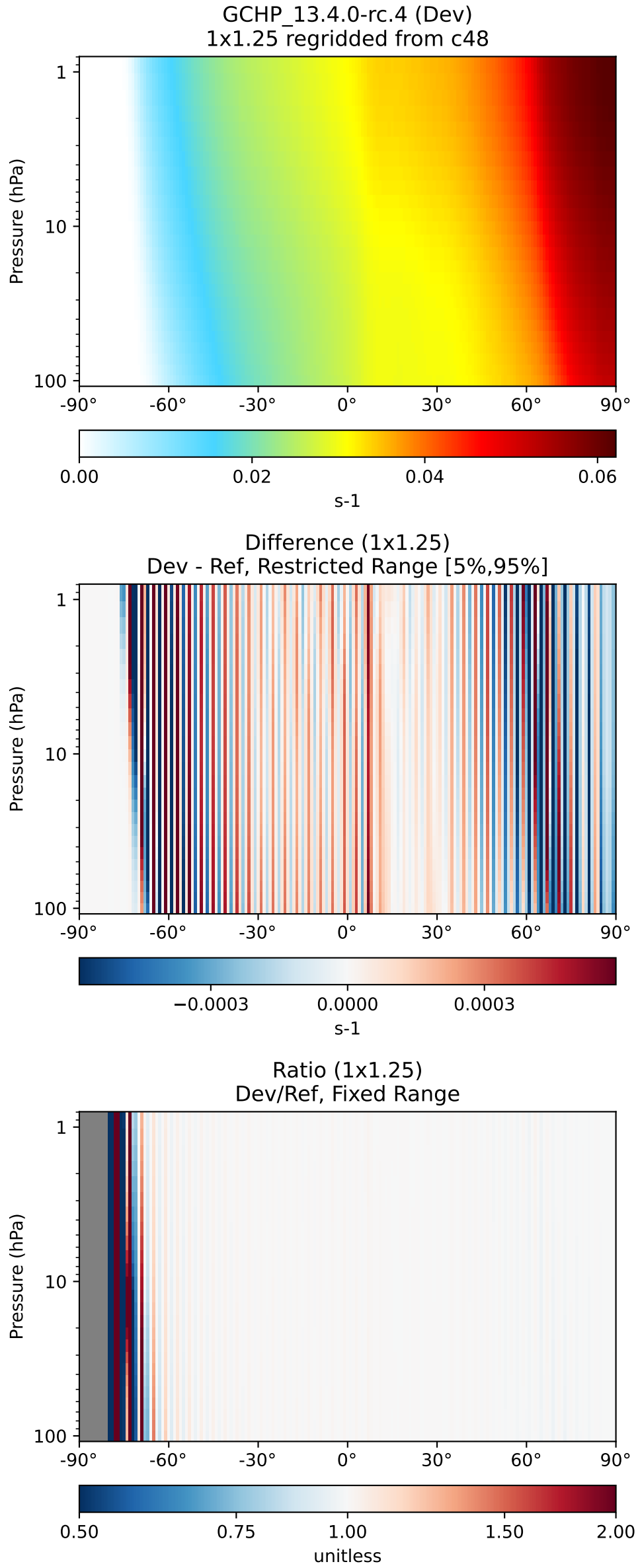
Jval_BrNO3, Zonal Mean



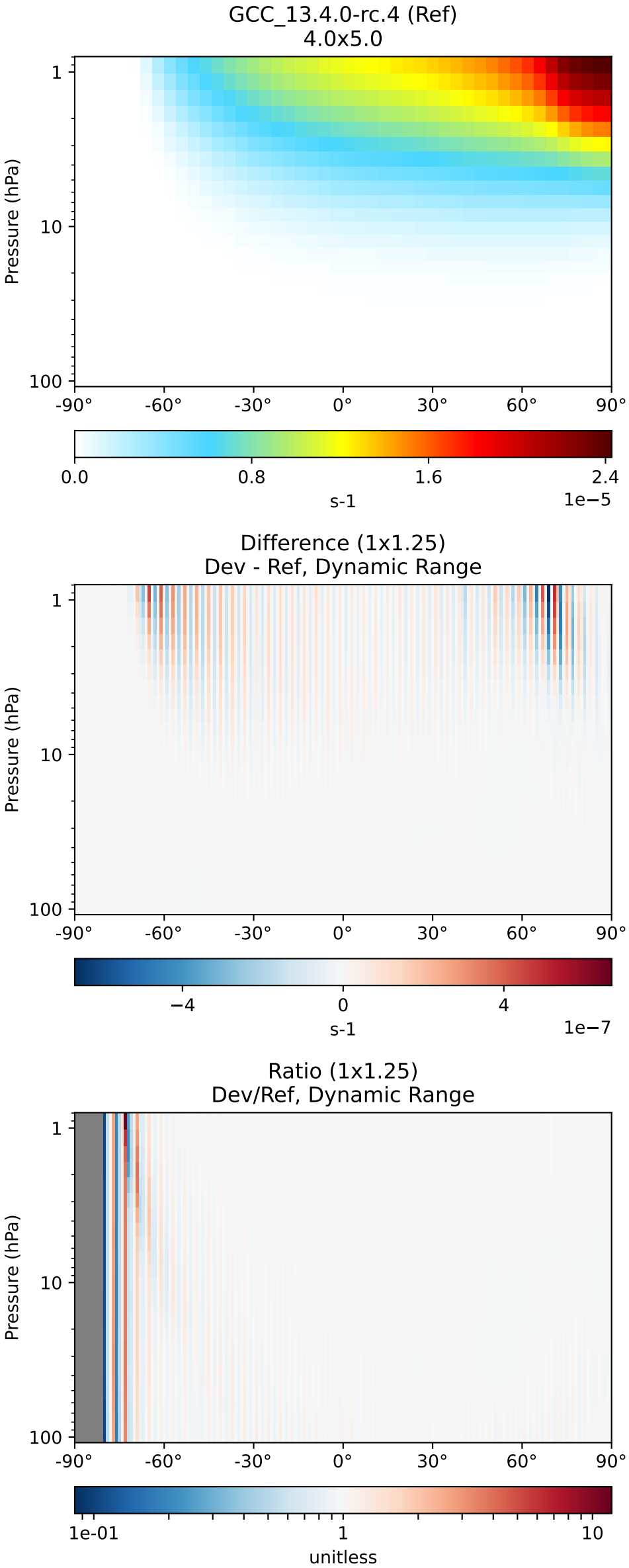


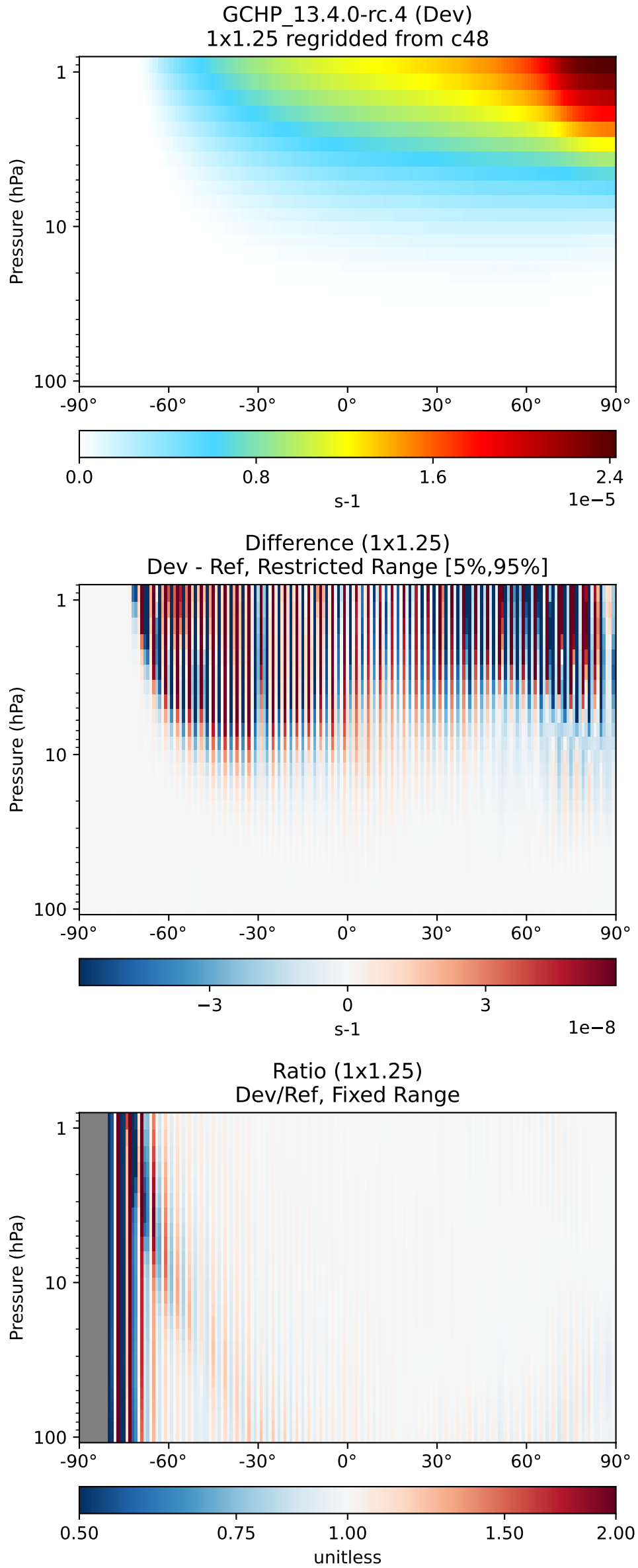
Jval_BrO, Zonal Mean



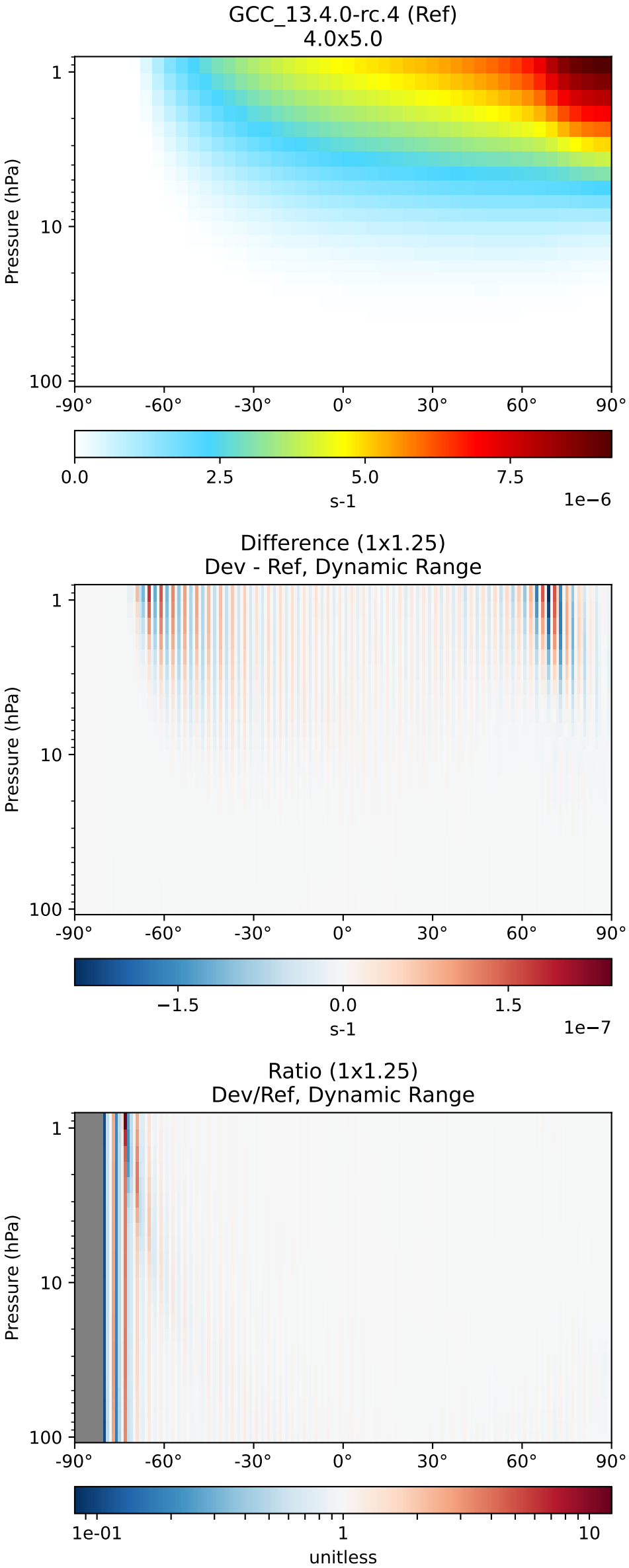


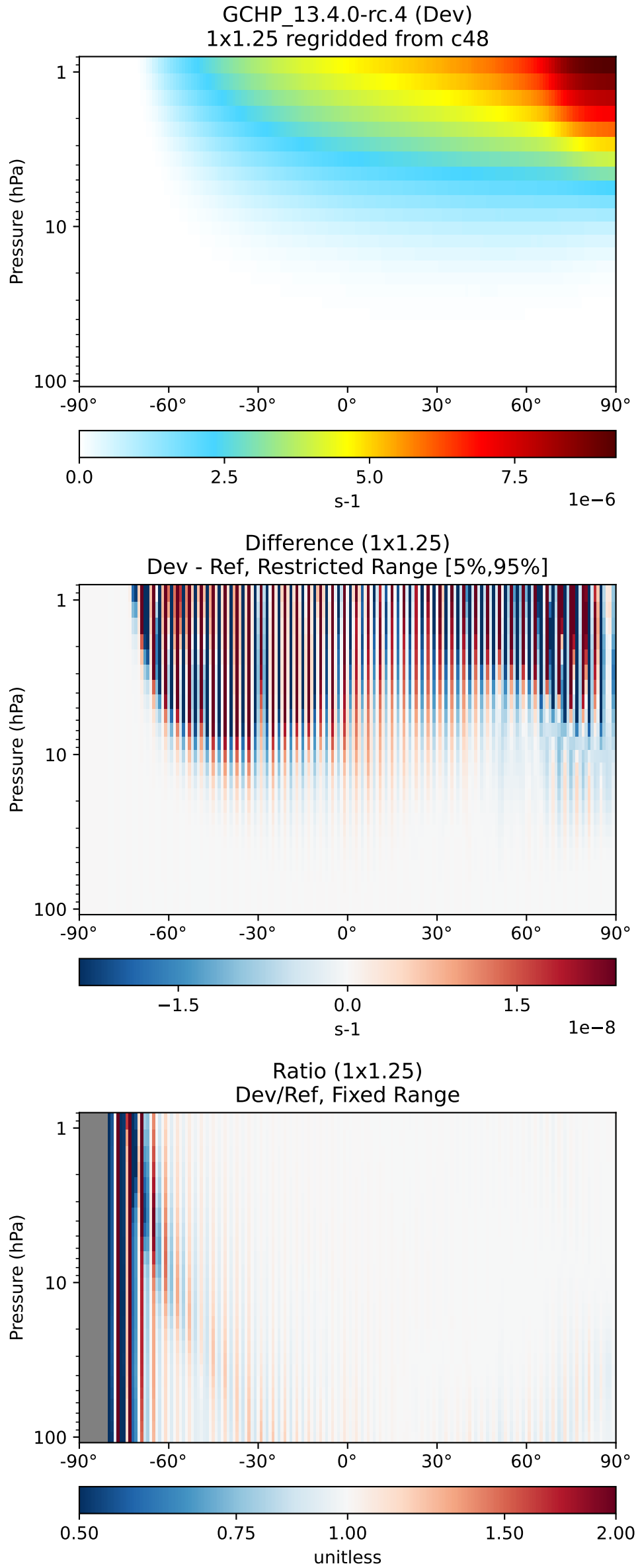
Jval_CCl4, Zonal Mean



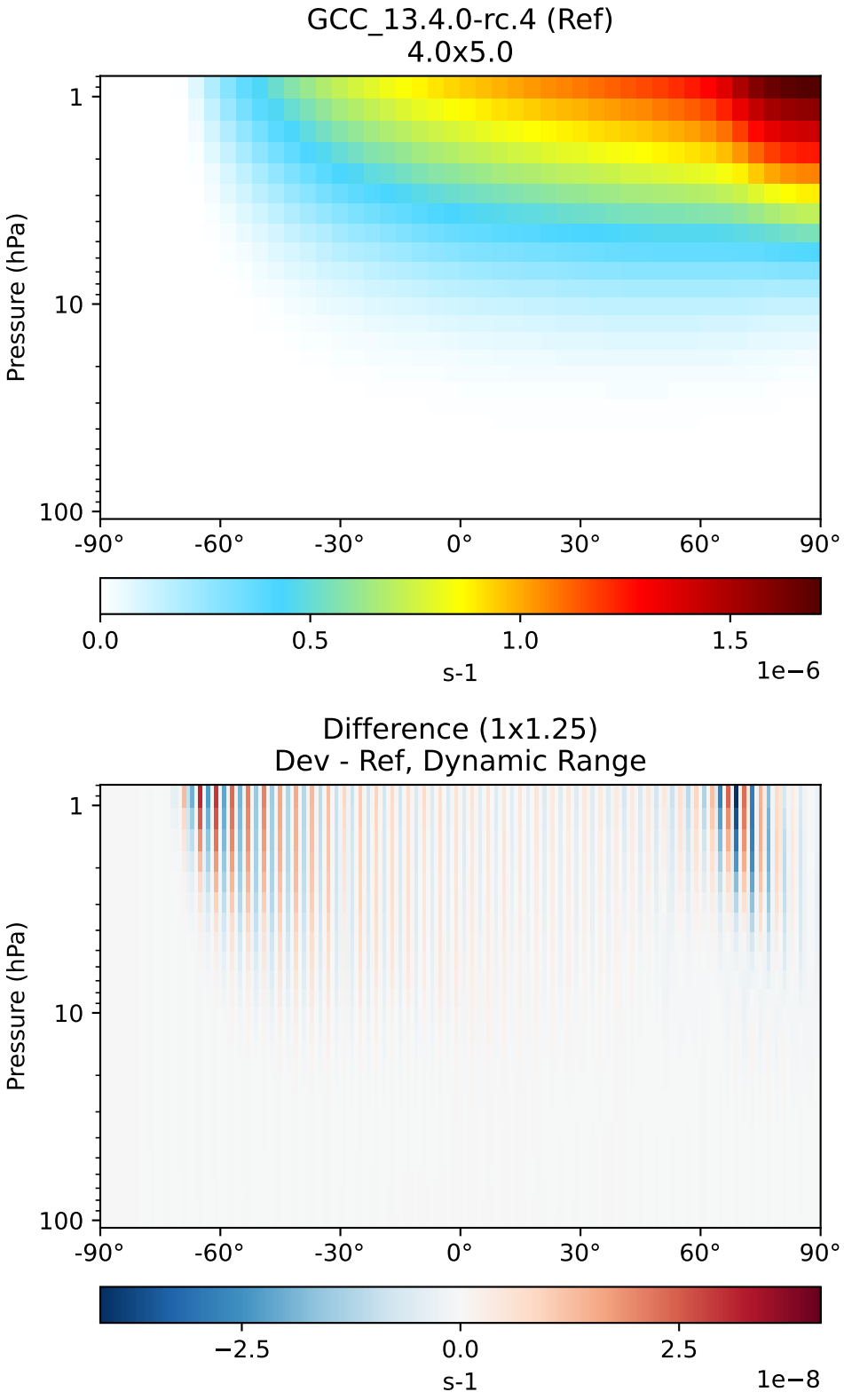


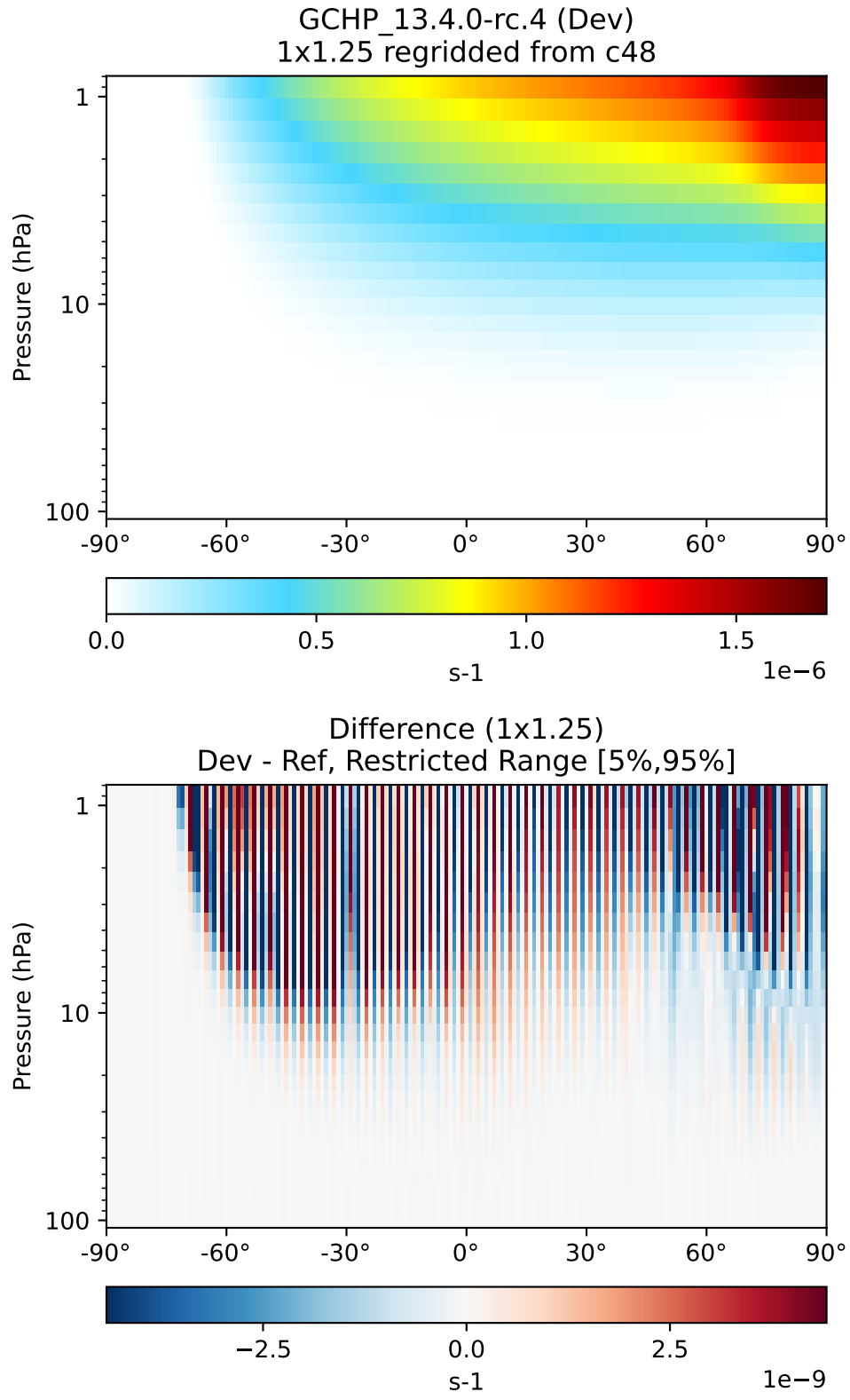
Jval_CFC11, Zonal Mean



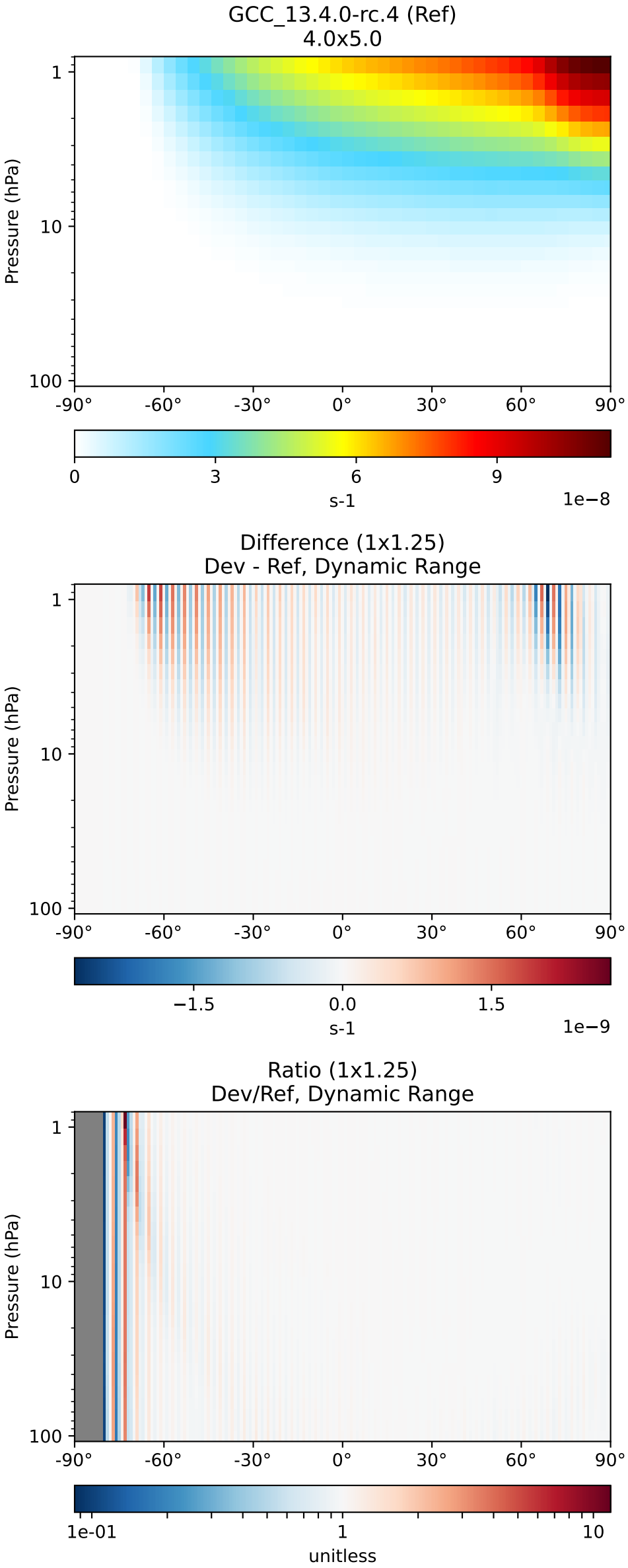


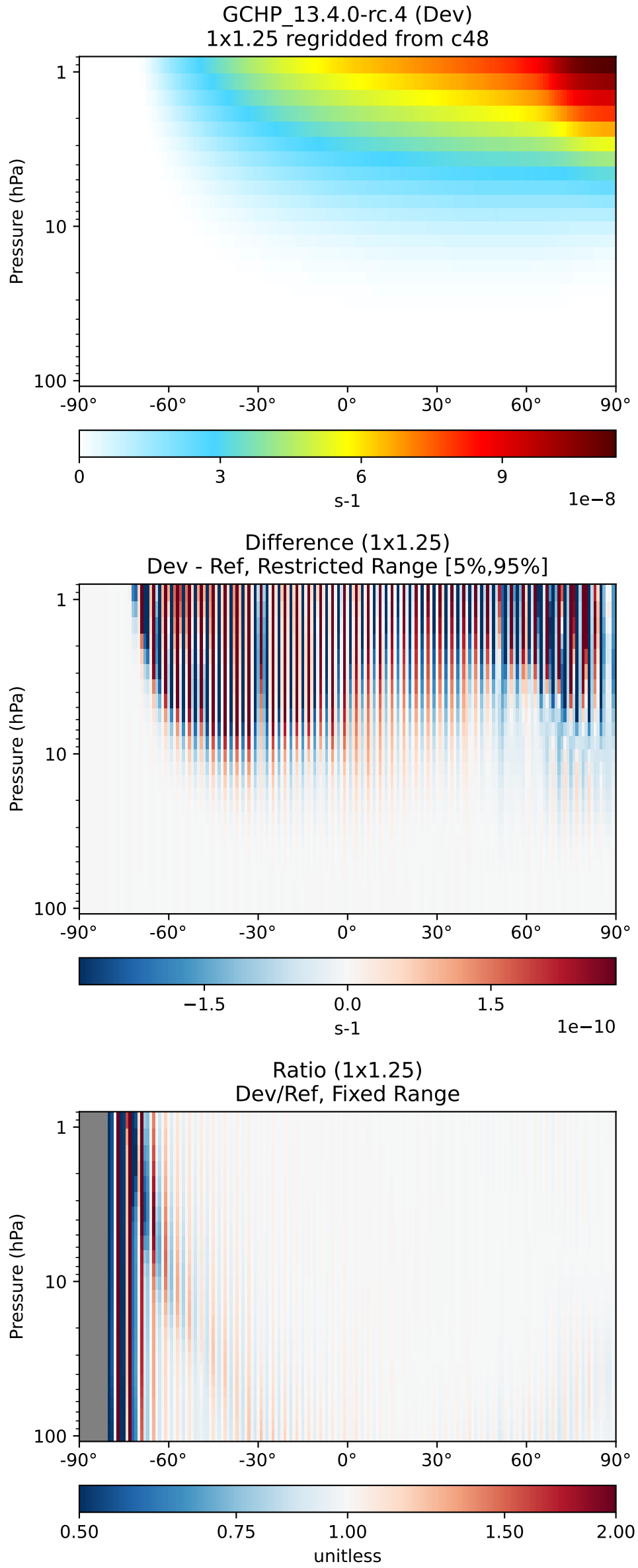
Jval_CFC113, Zonal Mean



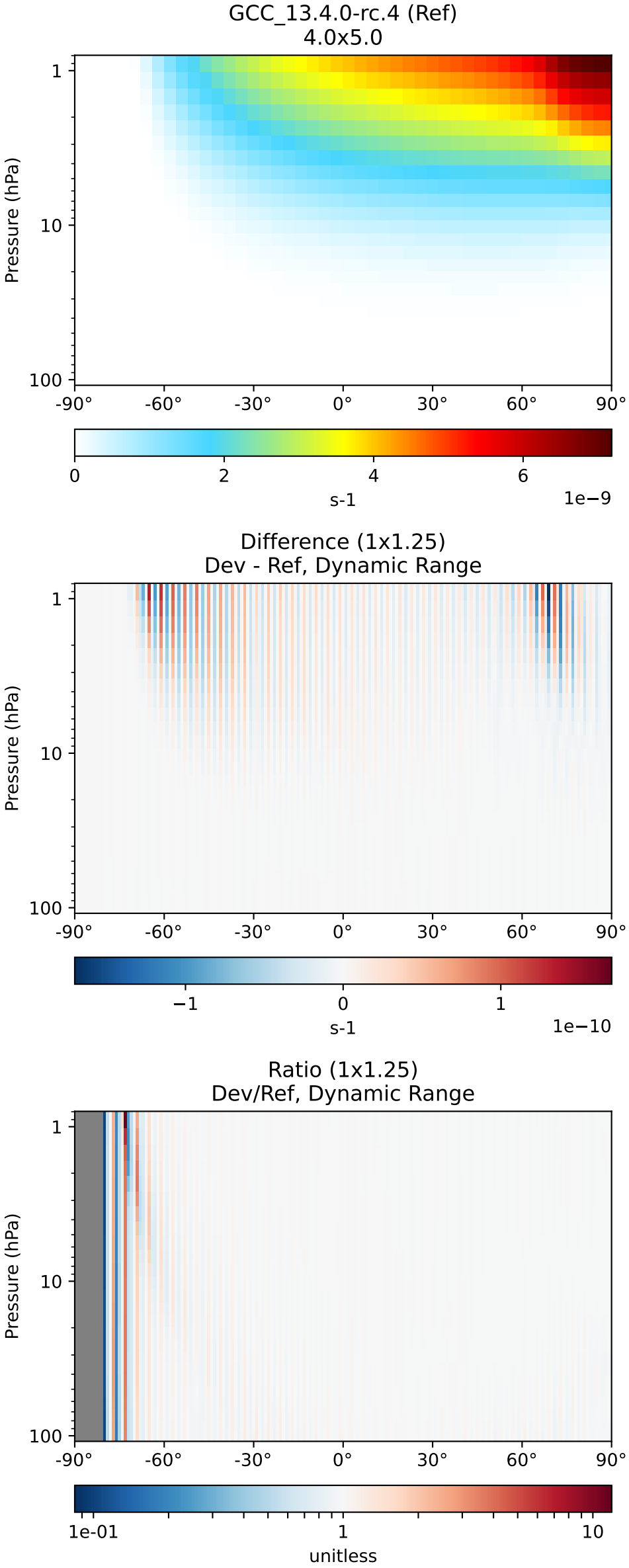


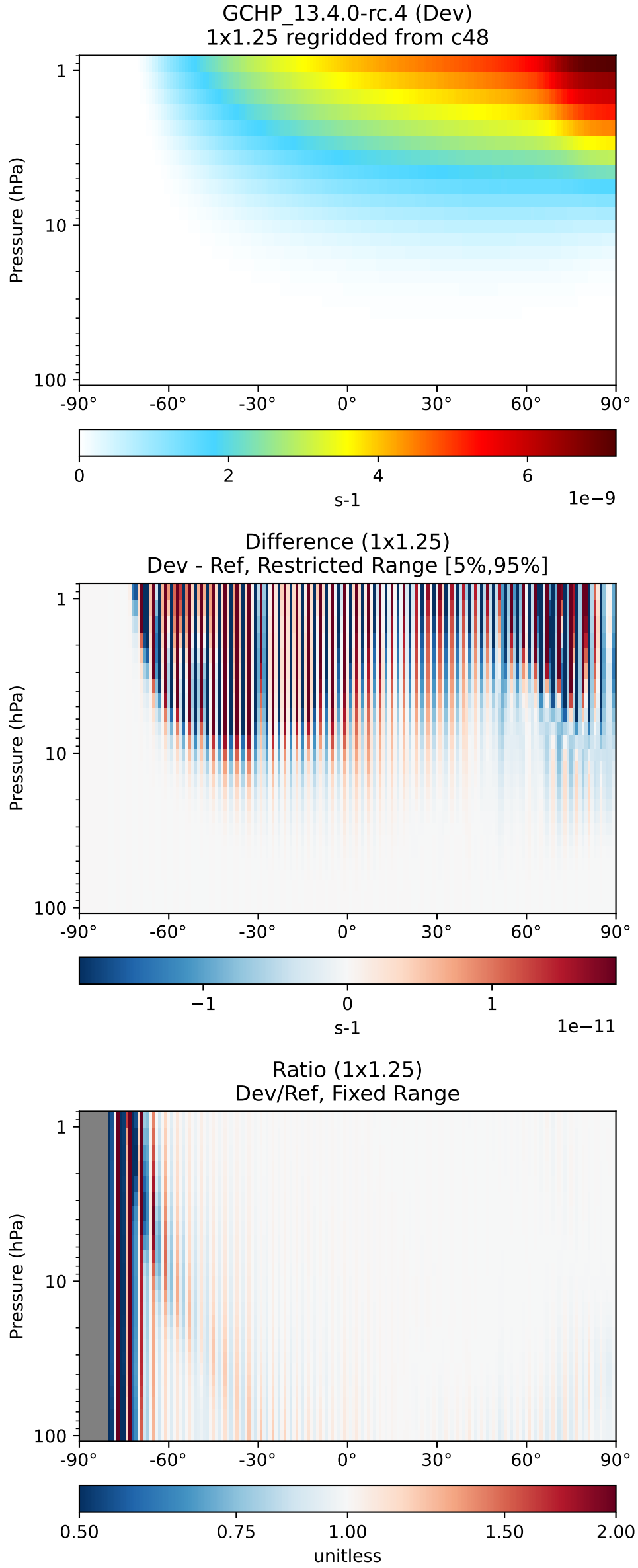
Jval_CFC114, Zonal Mean



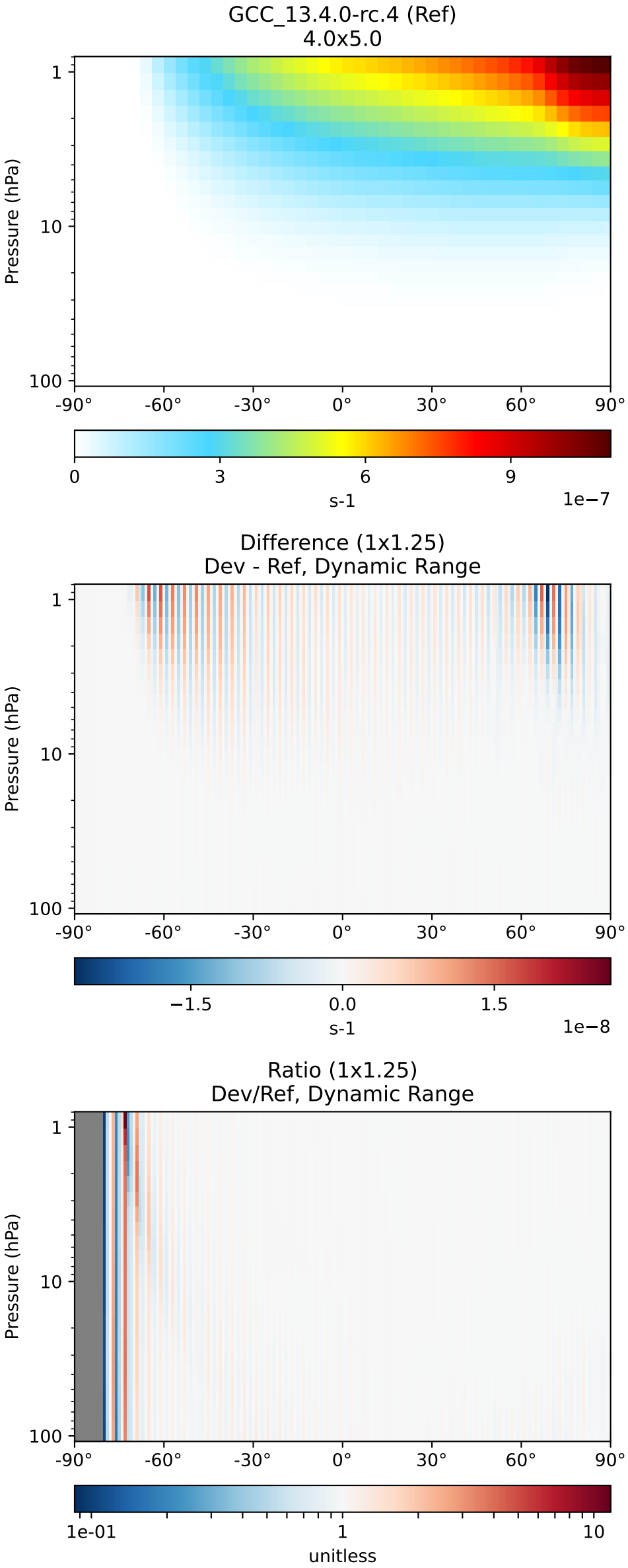


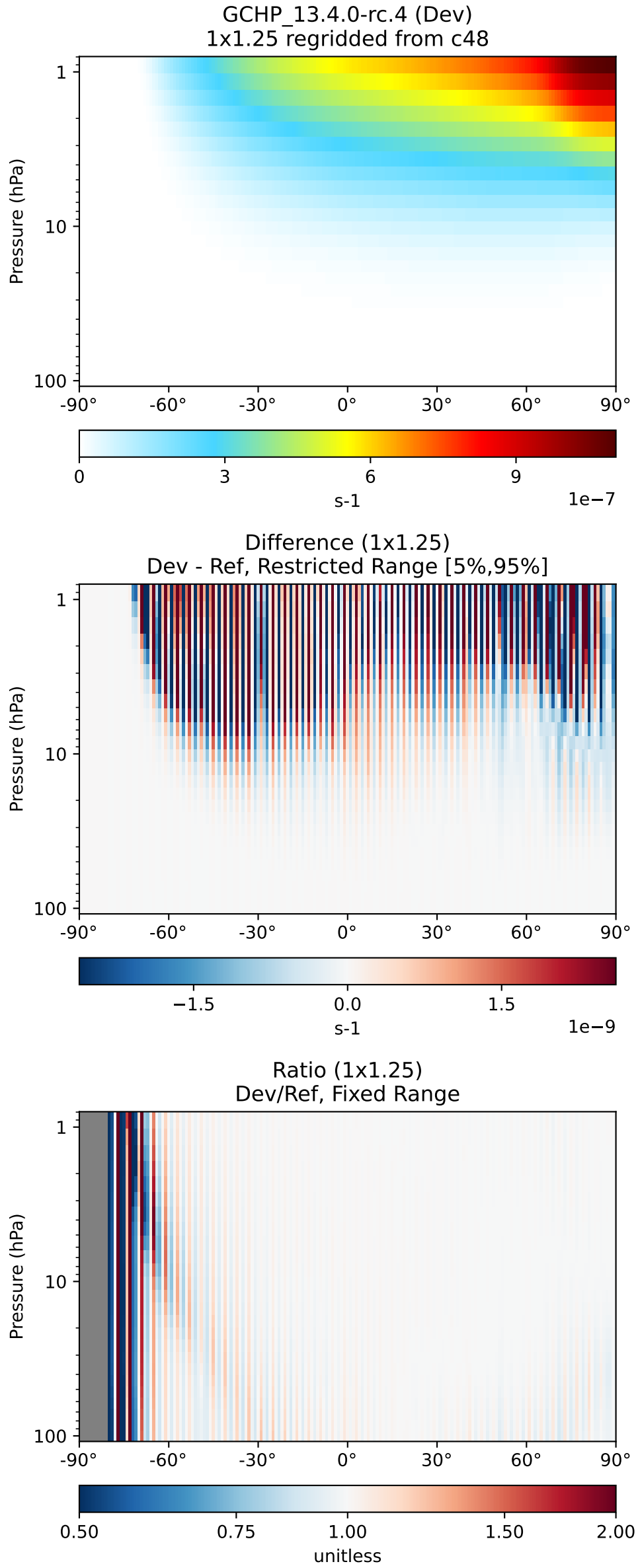
Jval_CFC115, Zonal Mean



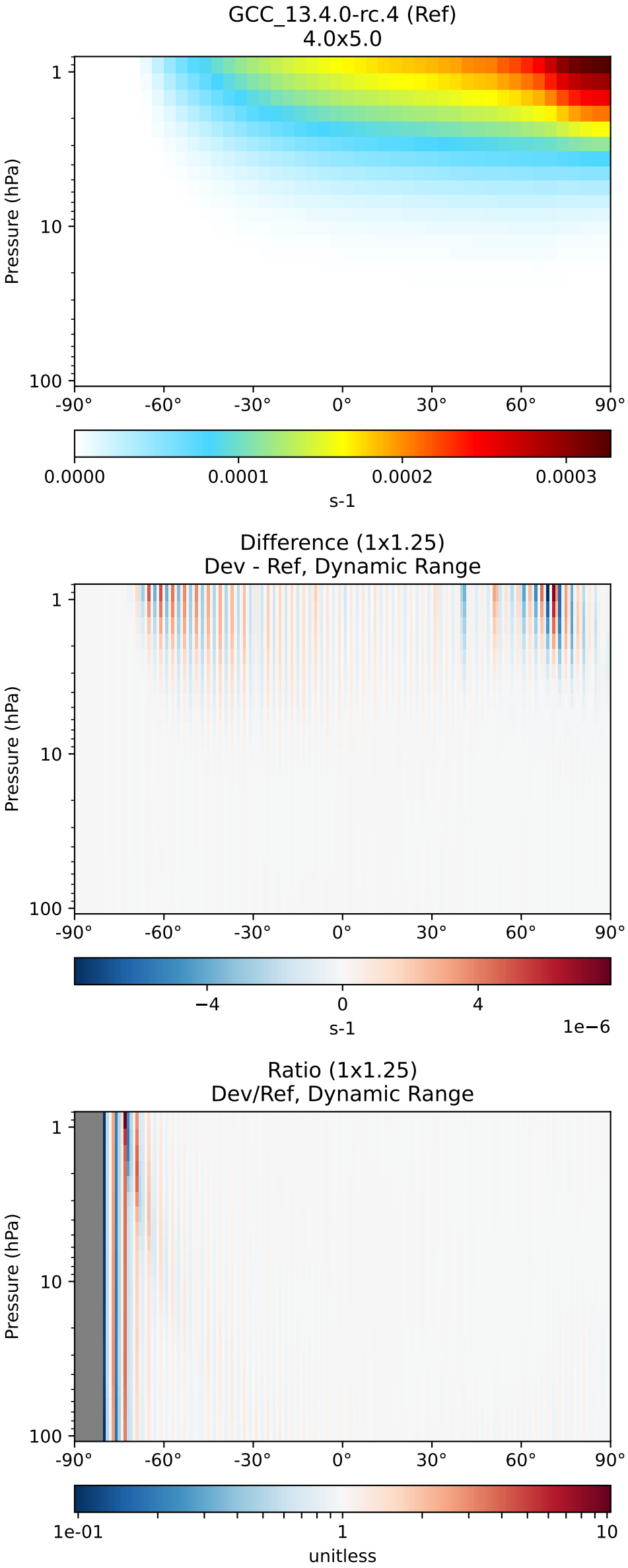


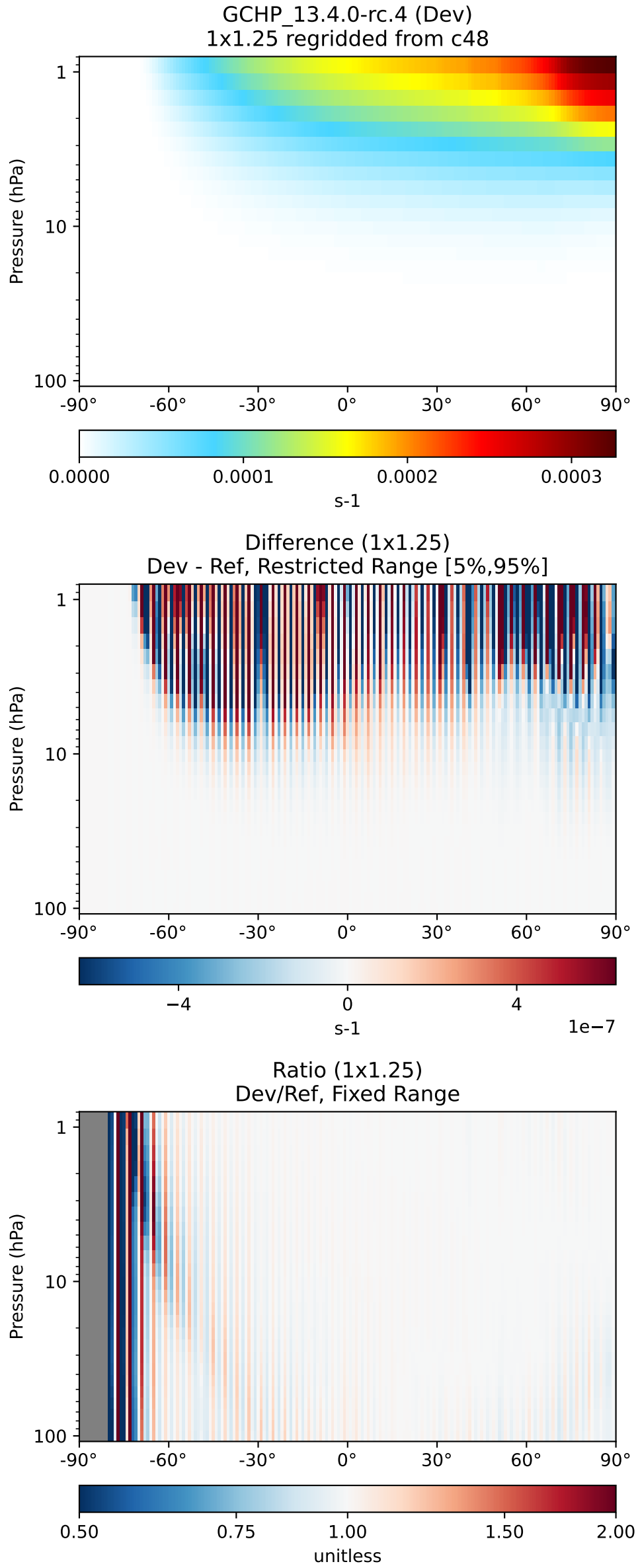
Jval_CFC12, Zonal Mean



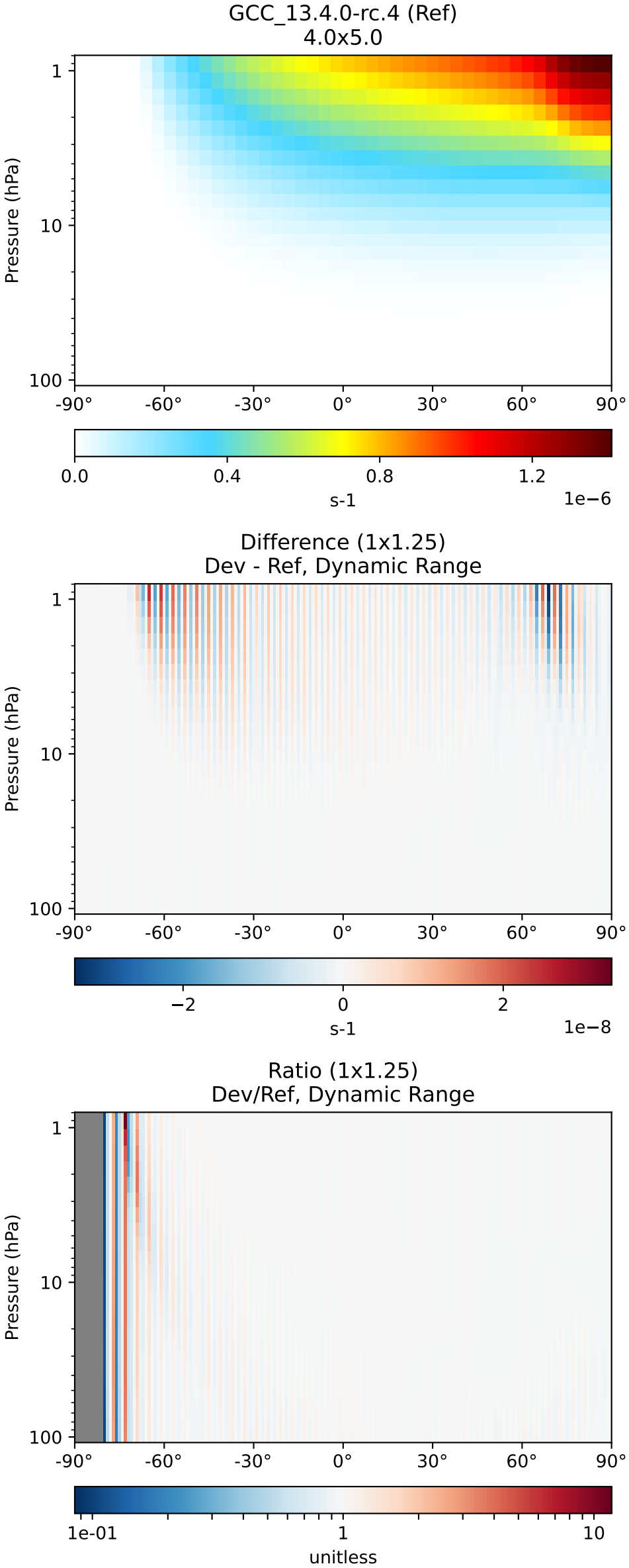


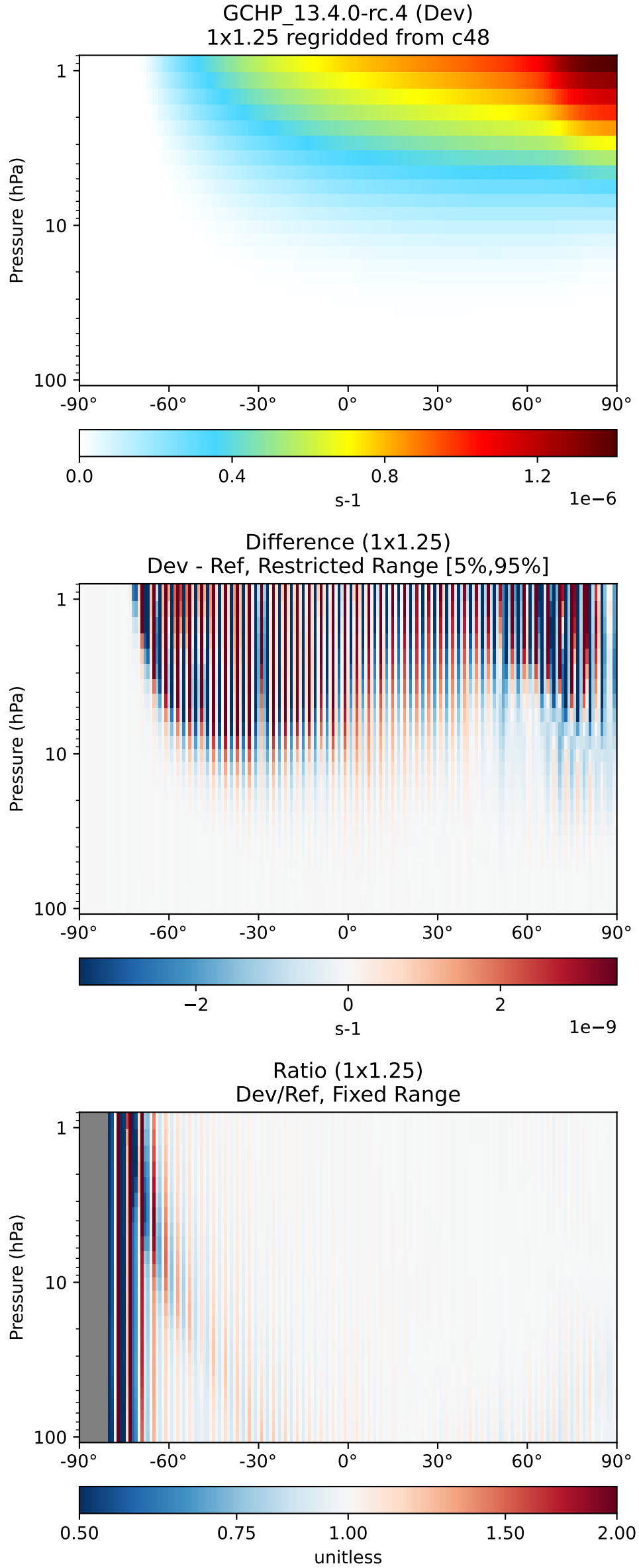
Jval_CH2Br2, Zonal Mean



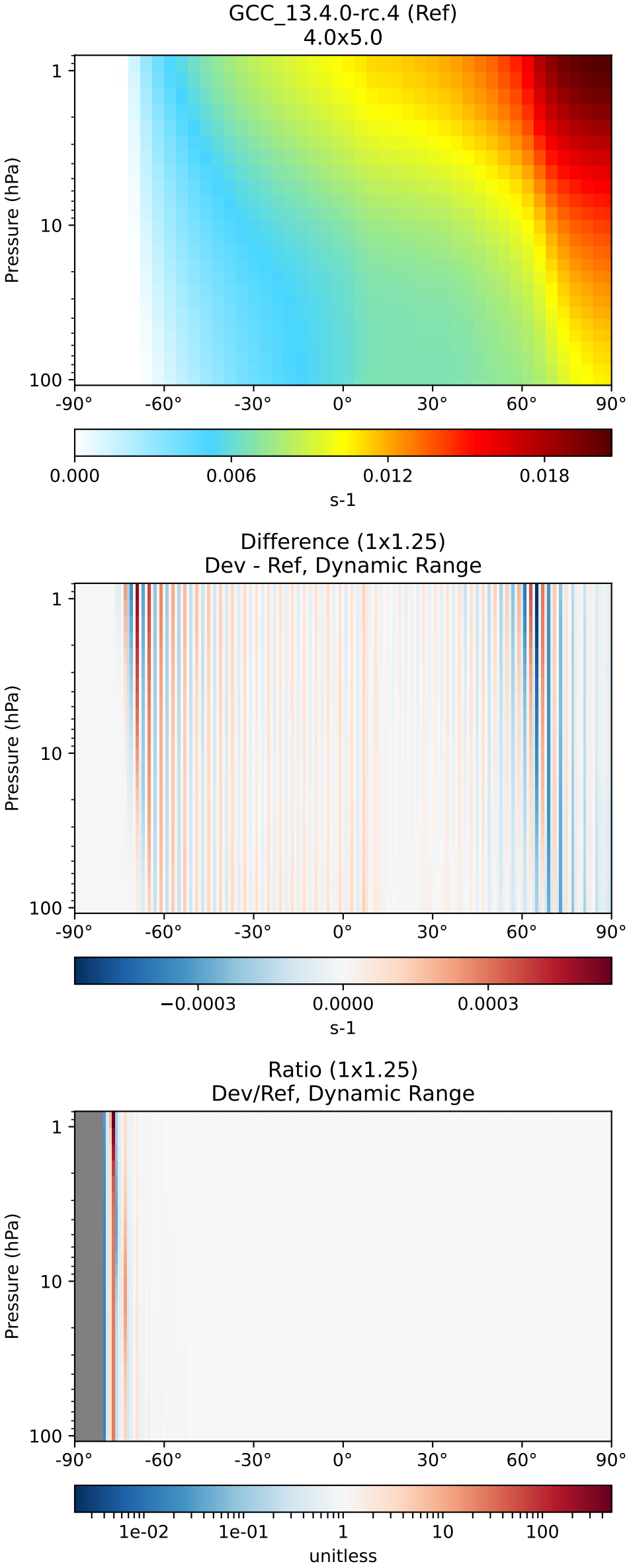


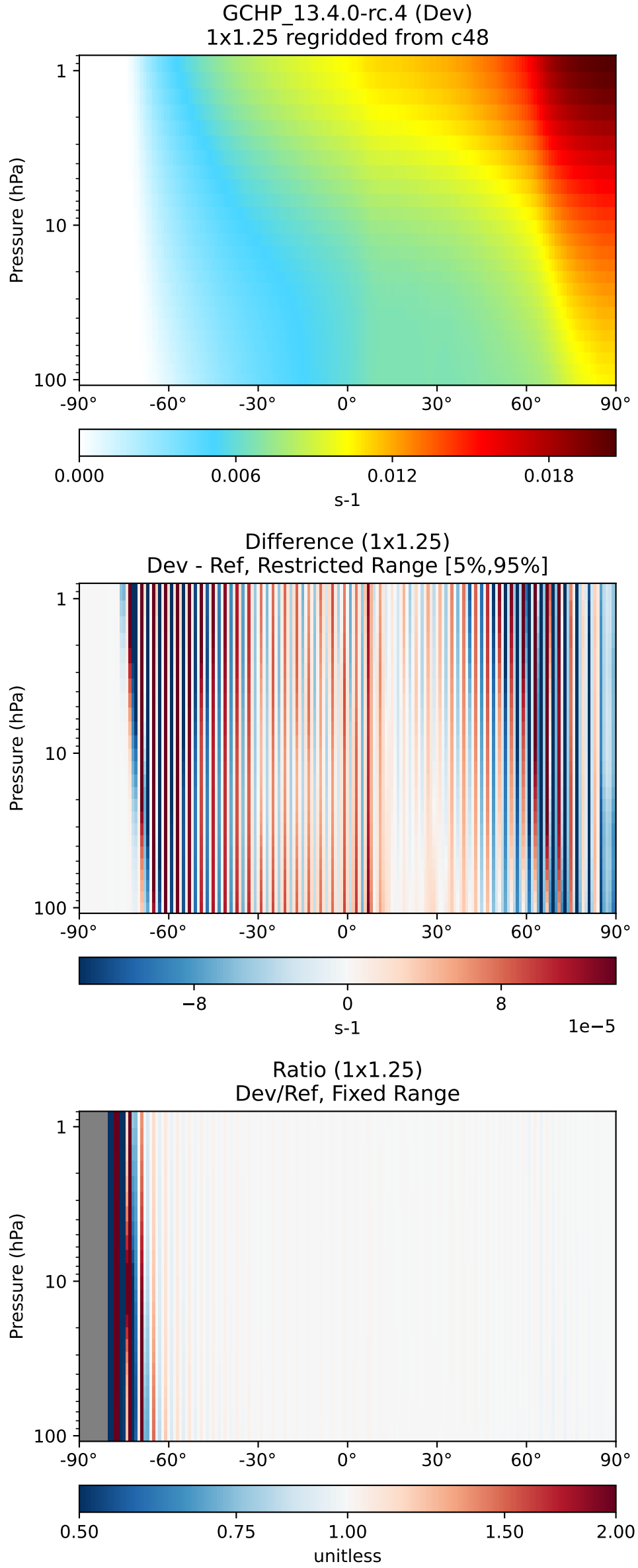
Jval_CH2Cl2, Zonal Mean



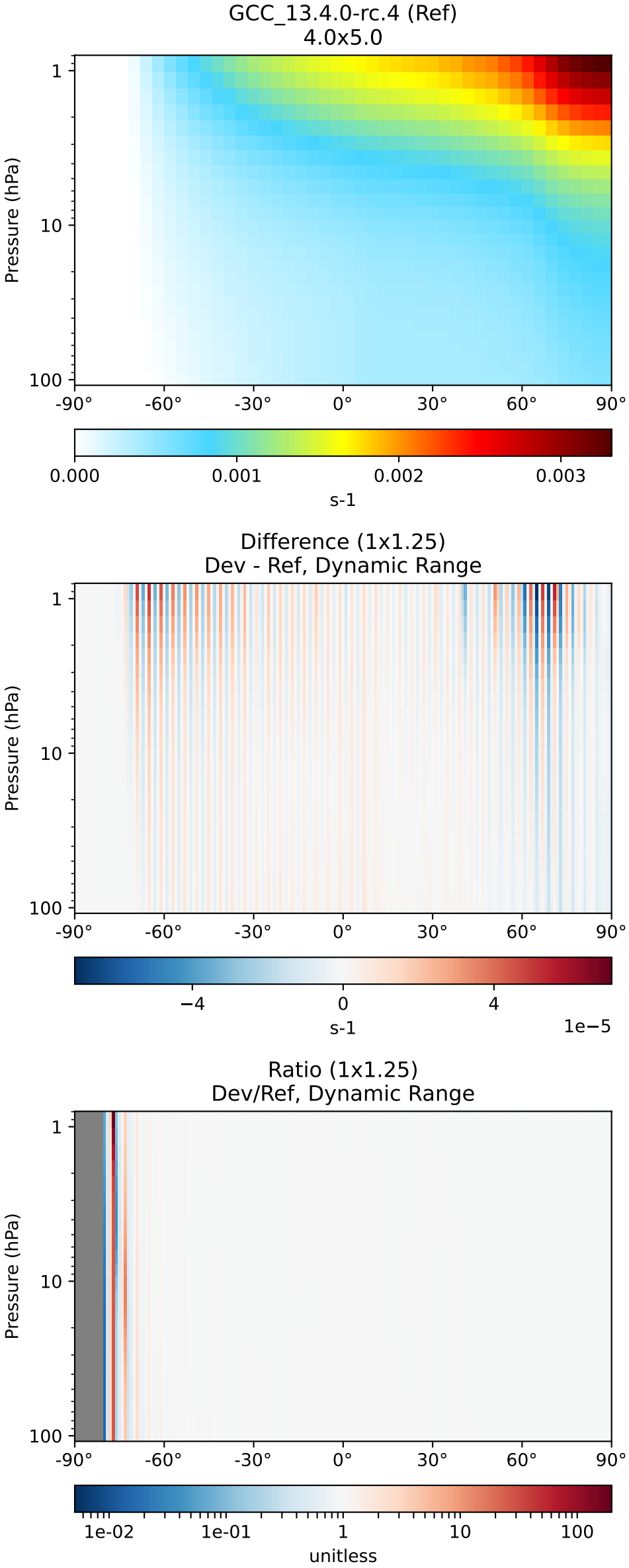


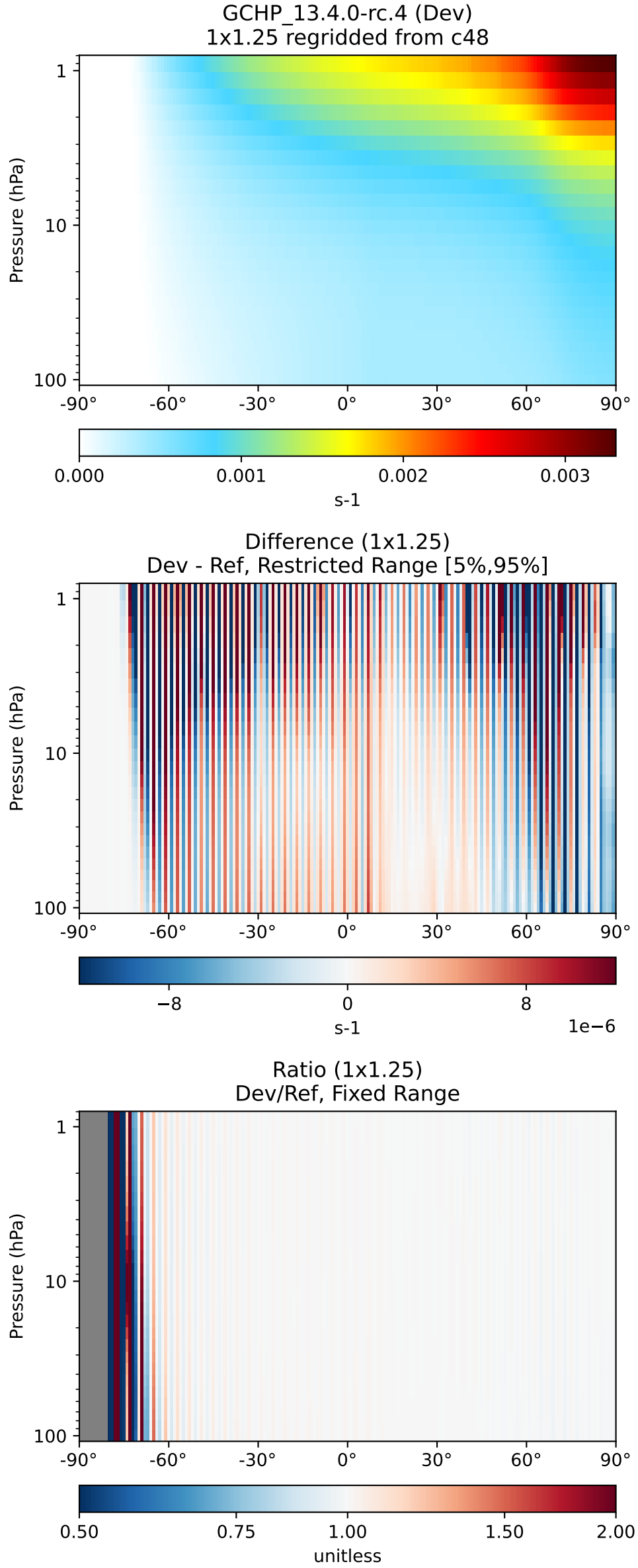
Jval_CH2I2, Zonal Mean



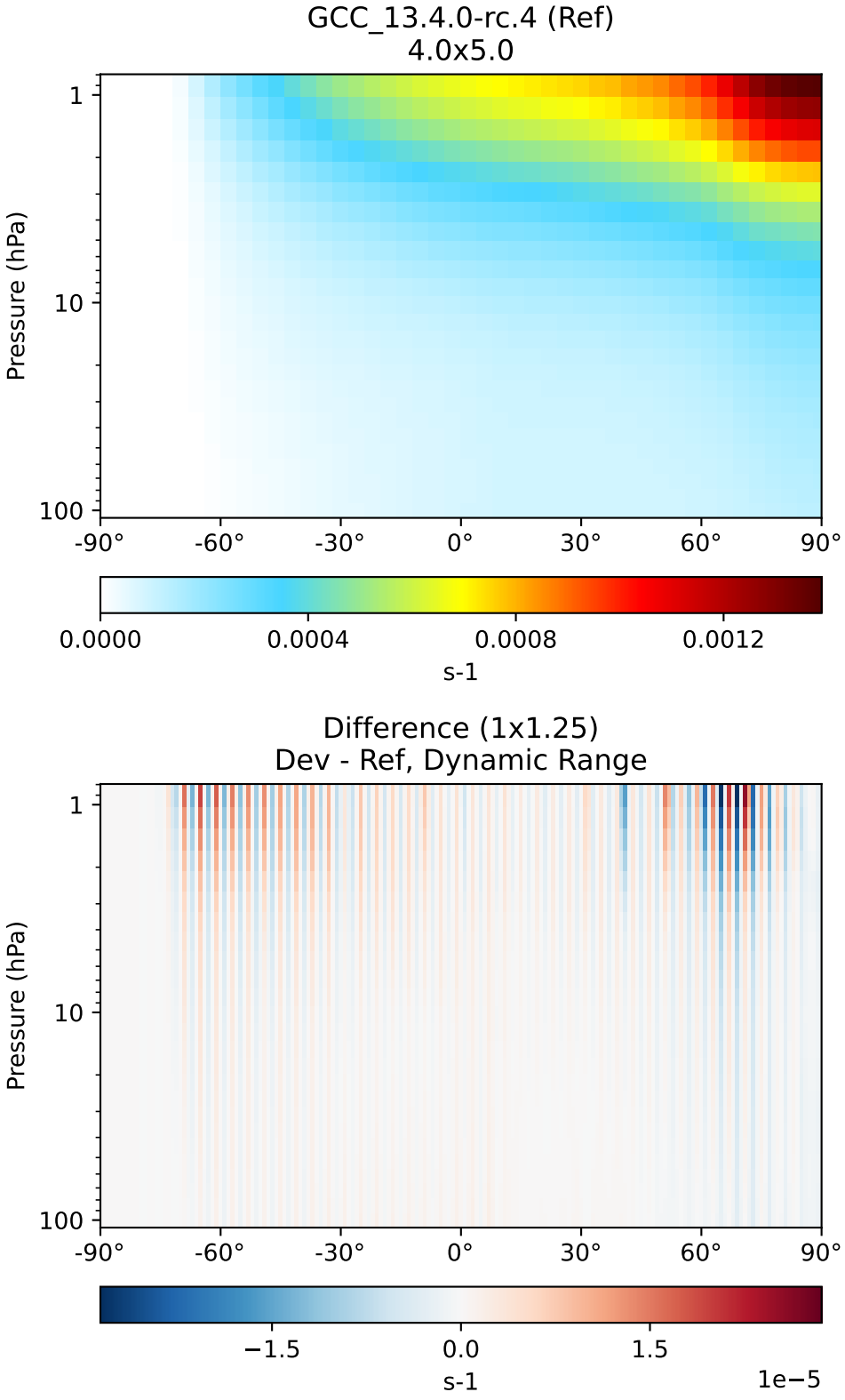


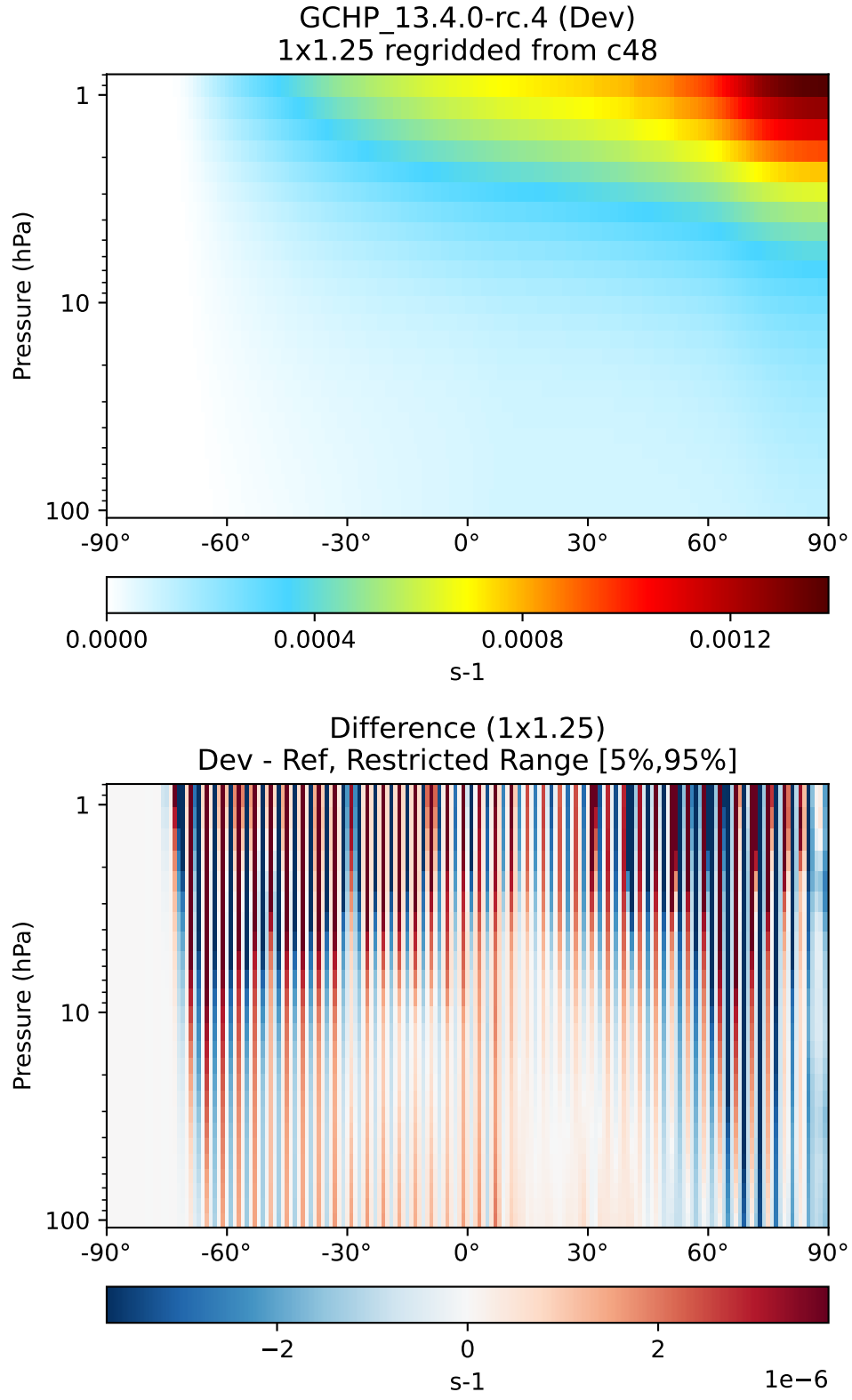
Jval_CH2IBr, Zonal Mean

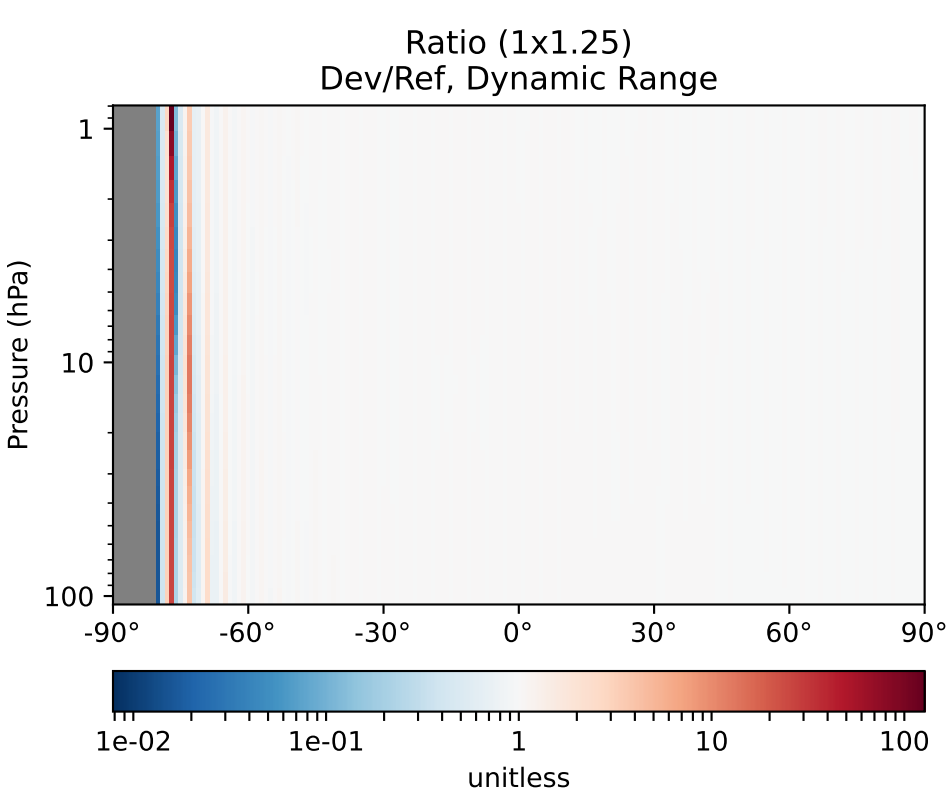


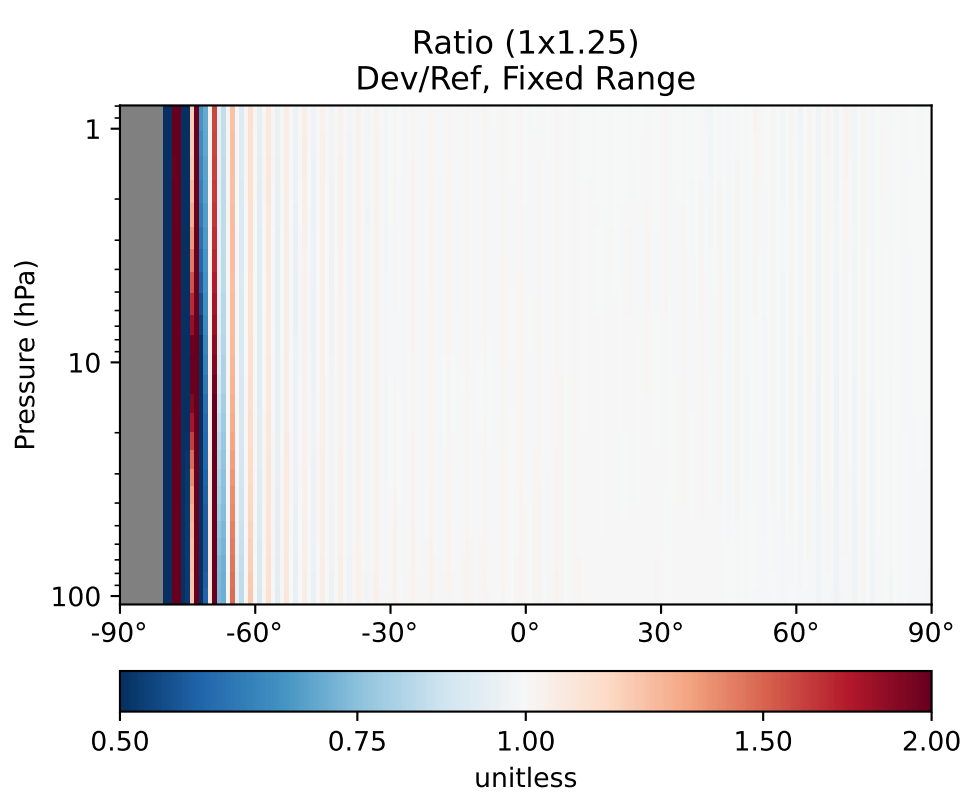


Jval_CH2ICl, Zonal Mean

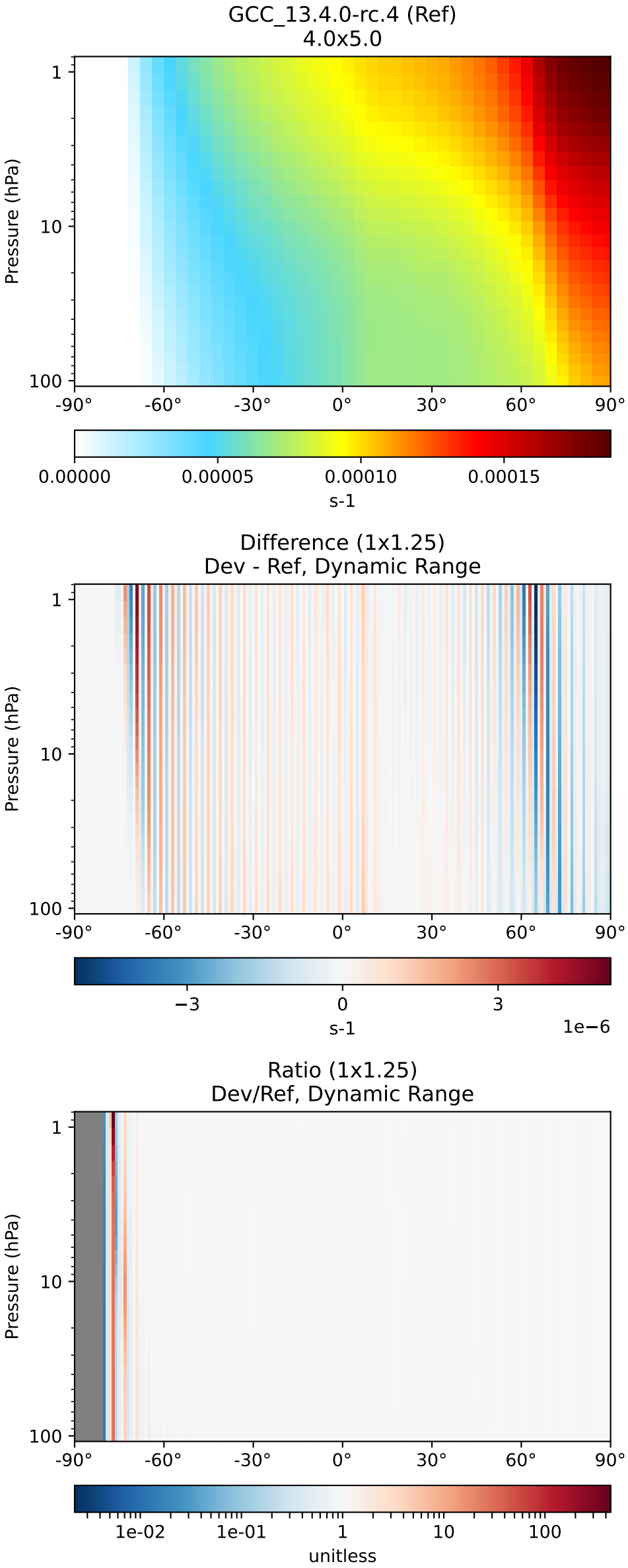


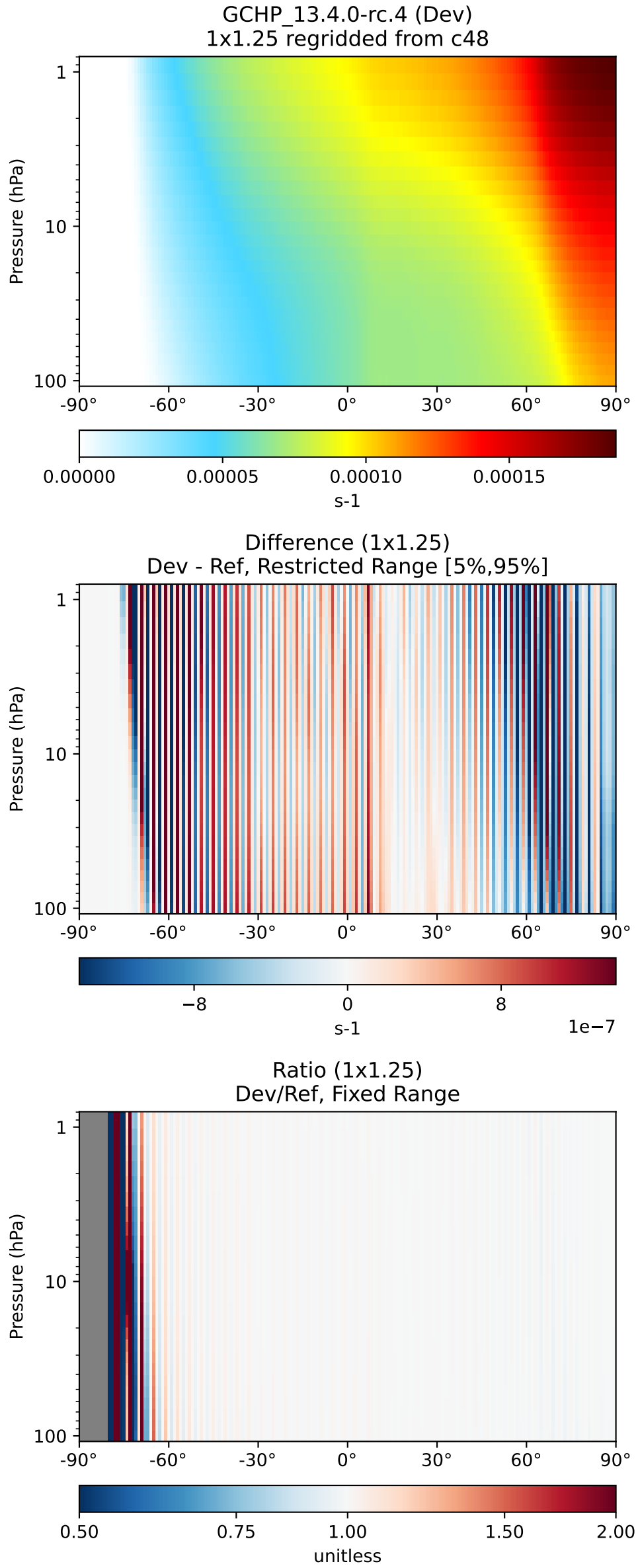




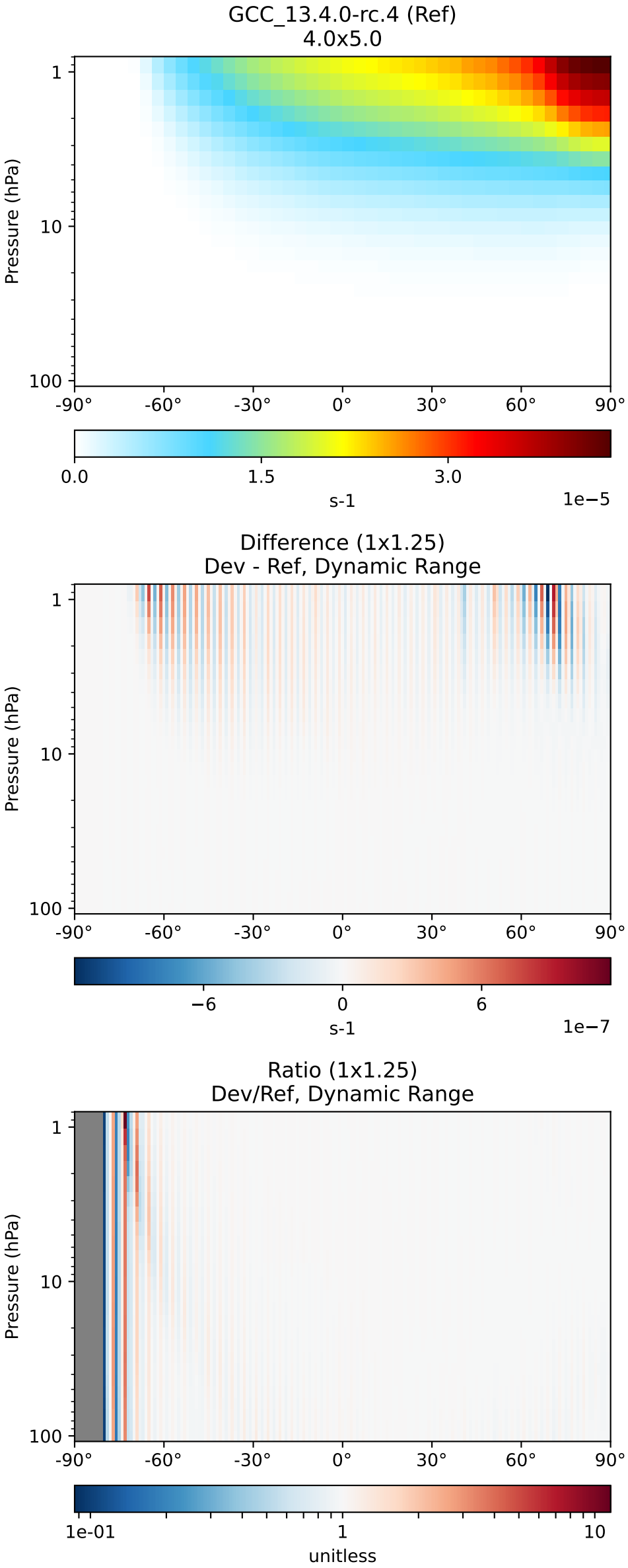


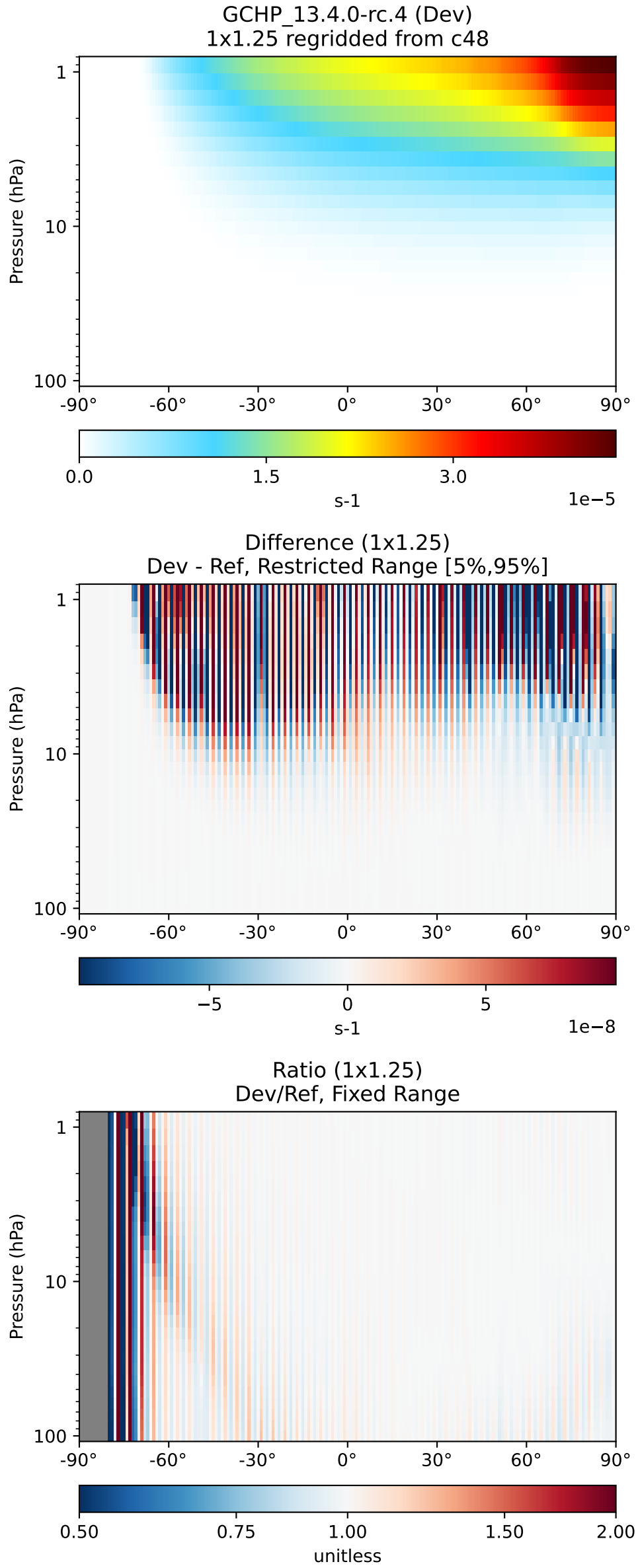
Jval_CH2O, Zonal Mean



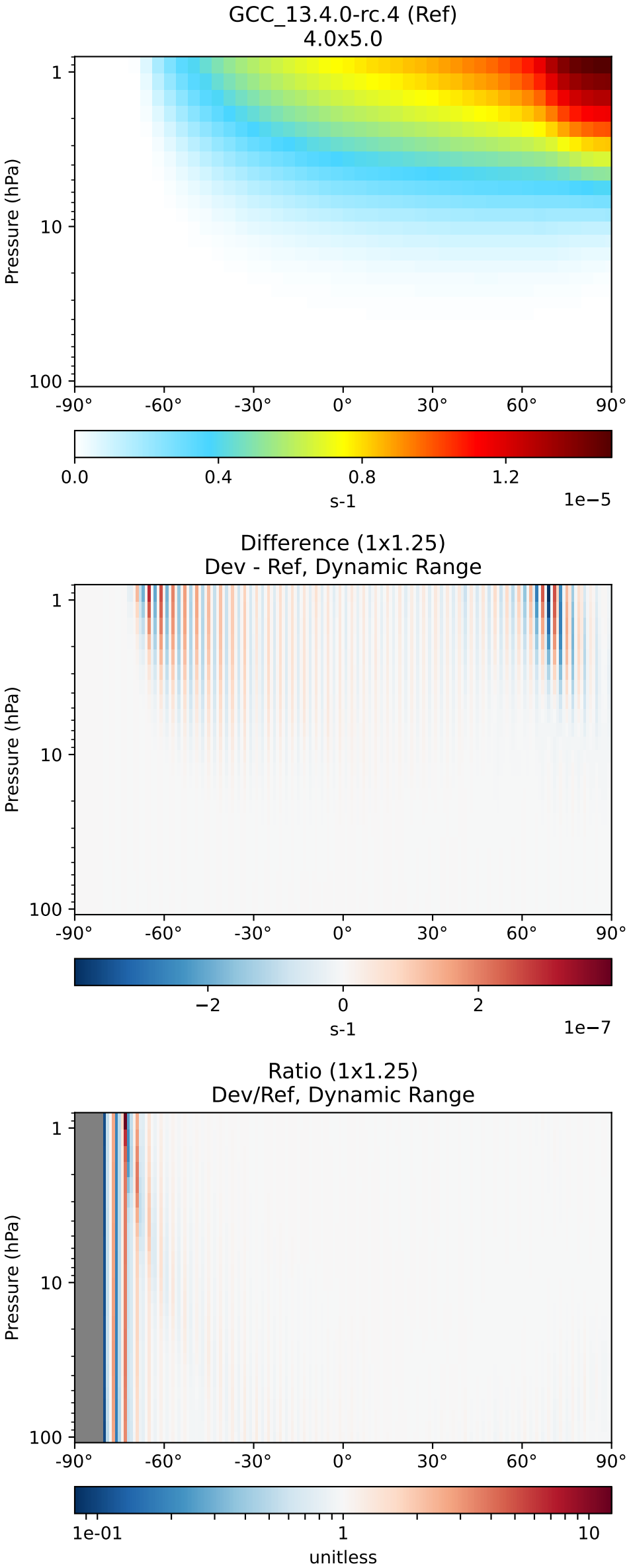


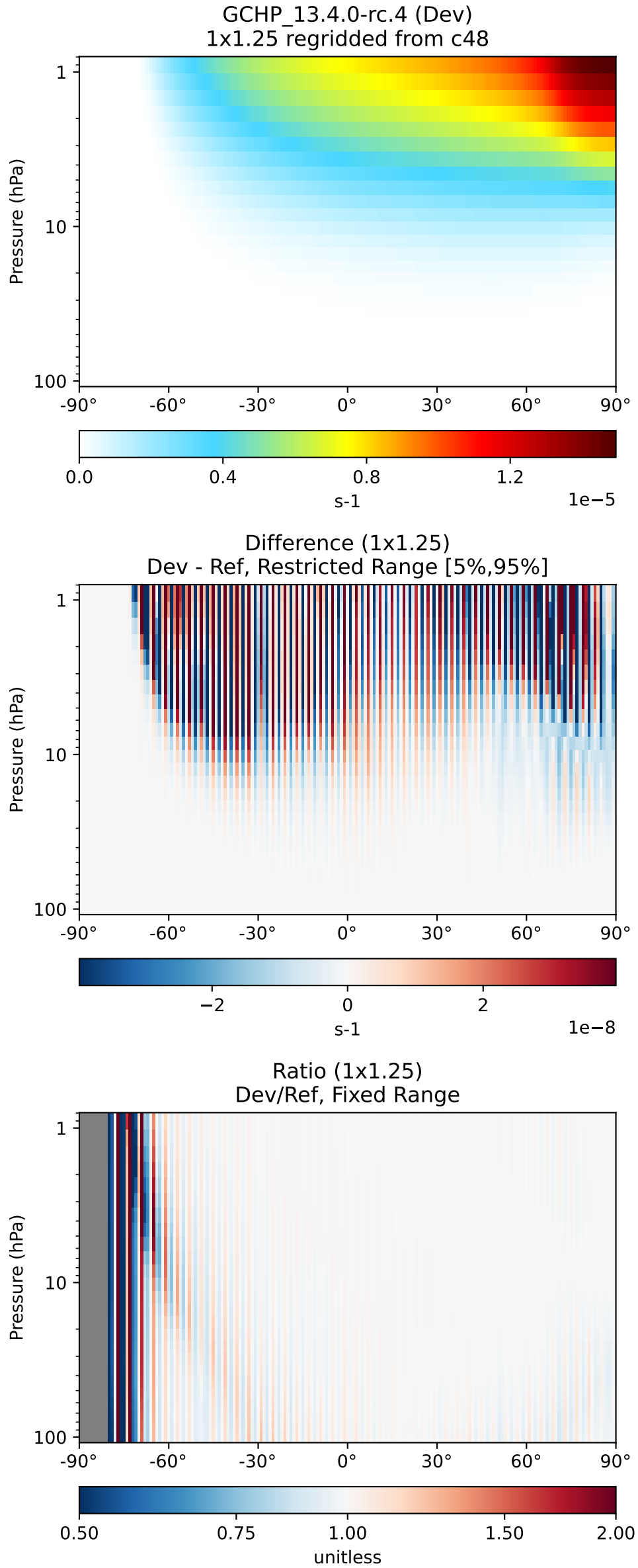
Jval_CH3Br, Zonal Mean



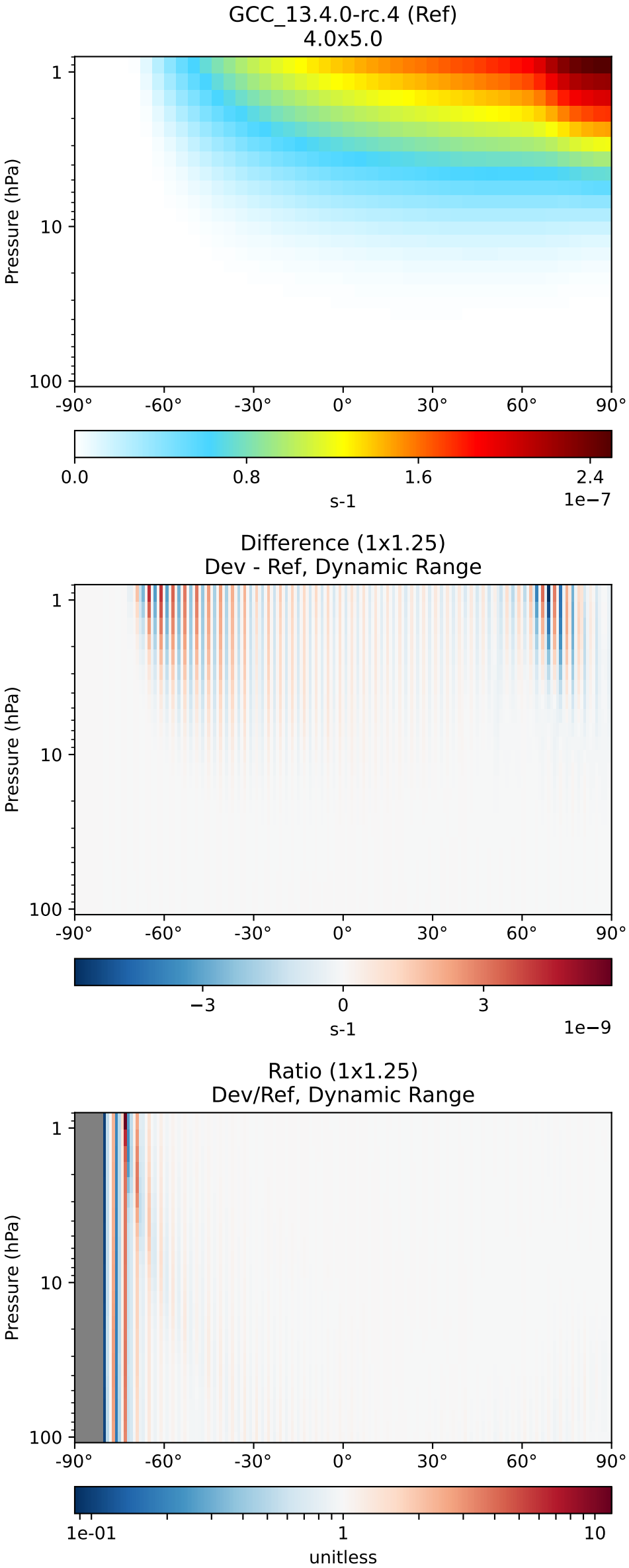


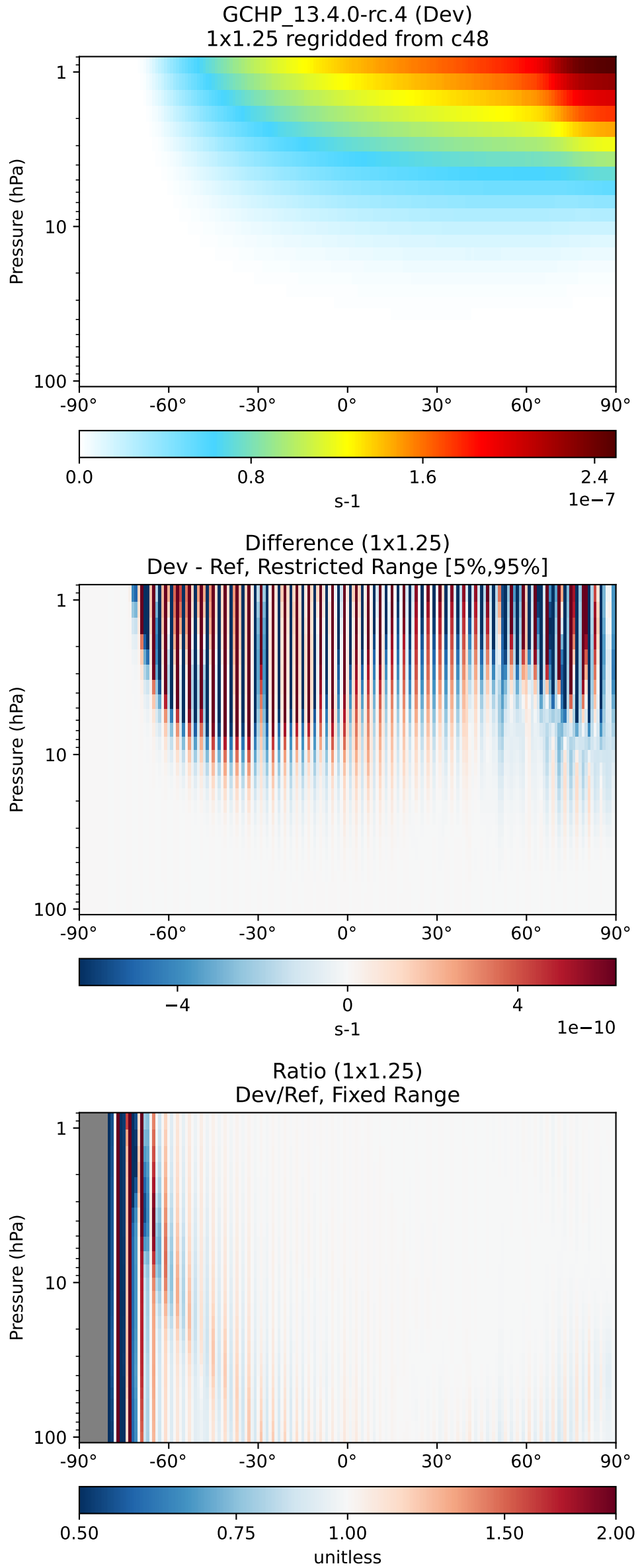
Jval_CH3CCl3, Zonal Mean



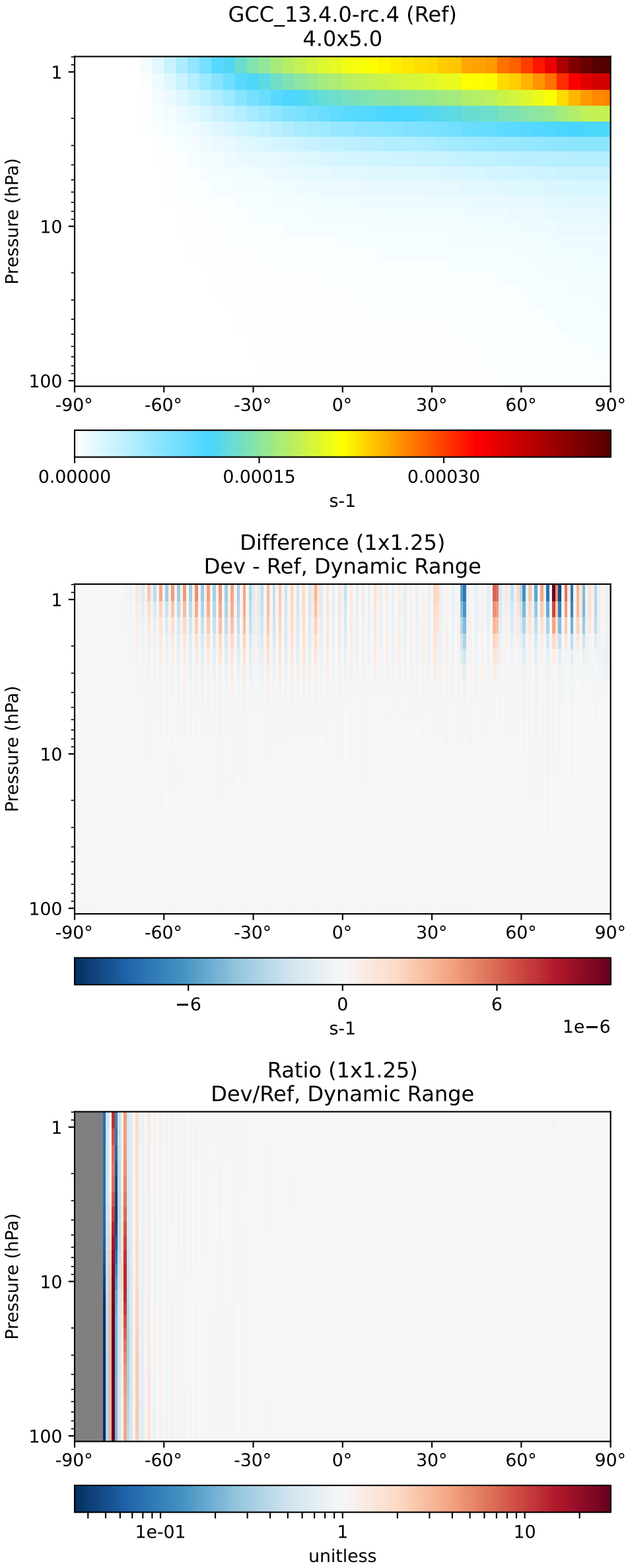


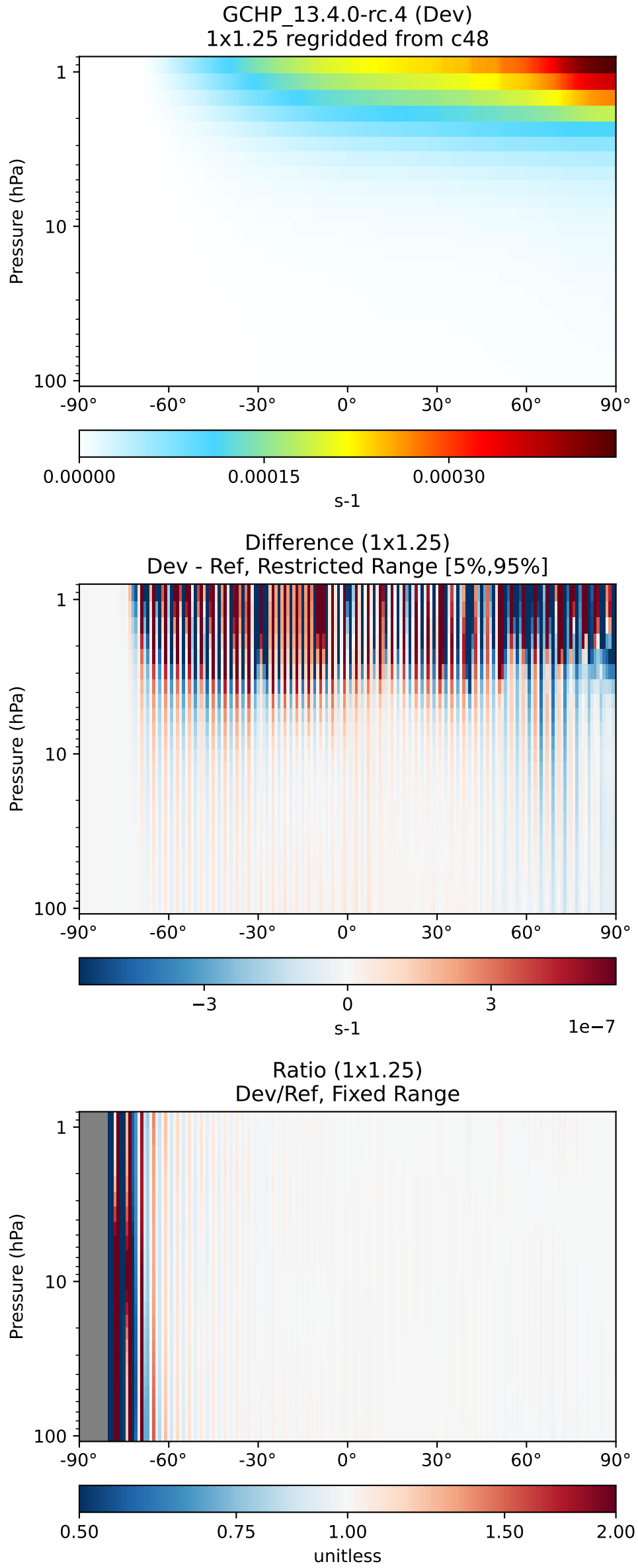
Jval_CH3Cl, Zonal Mean



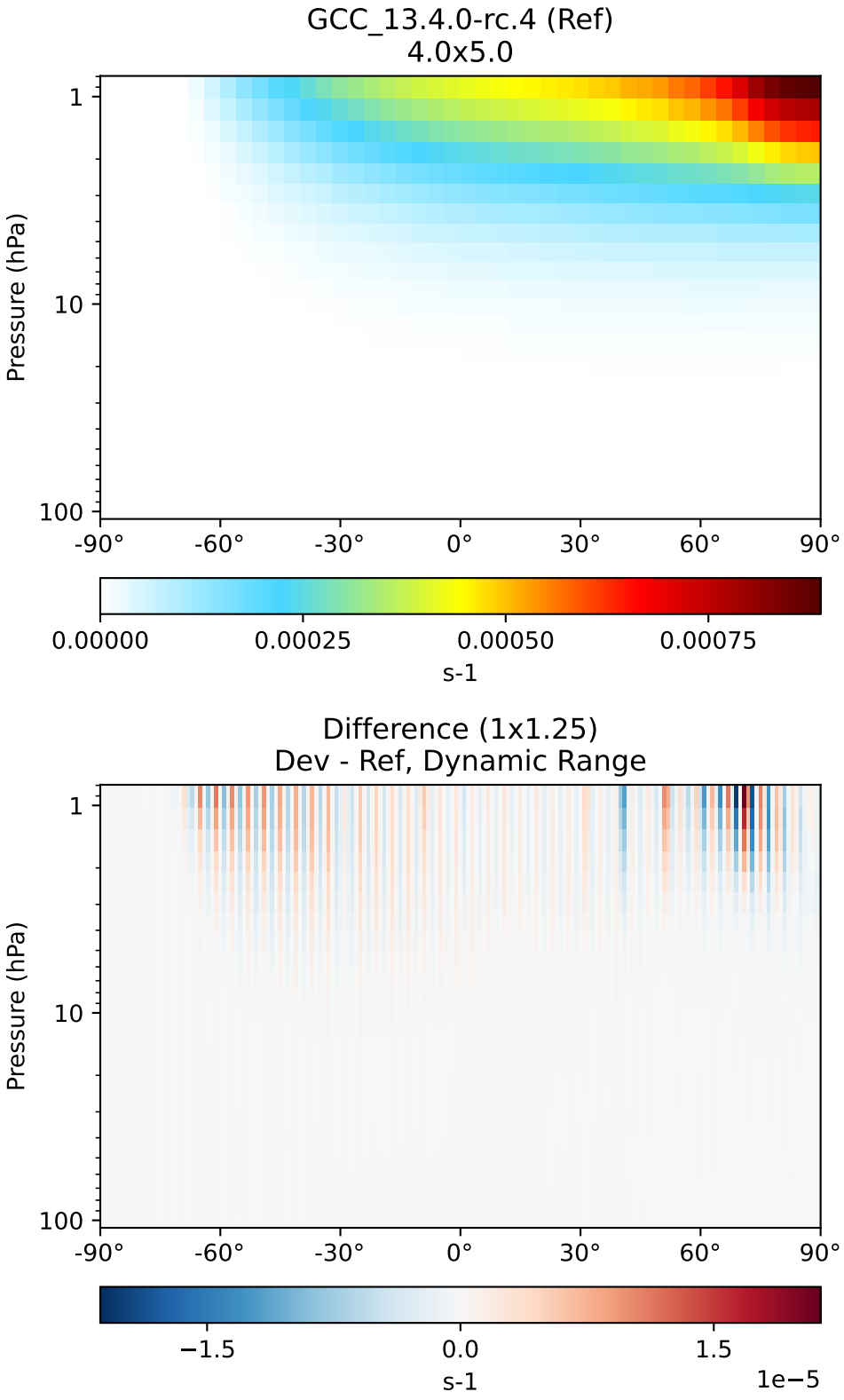


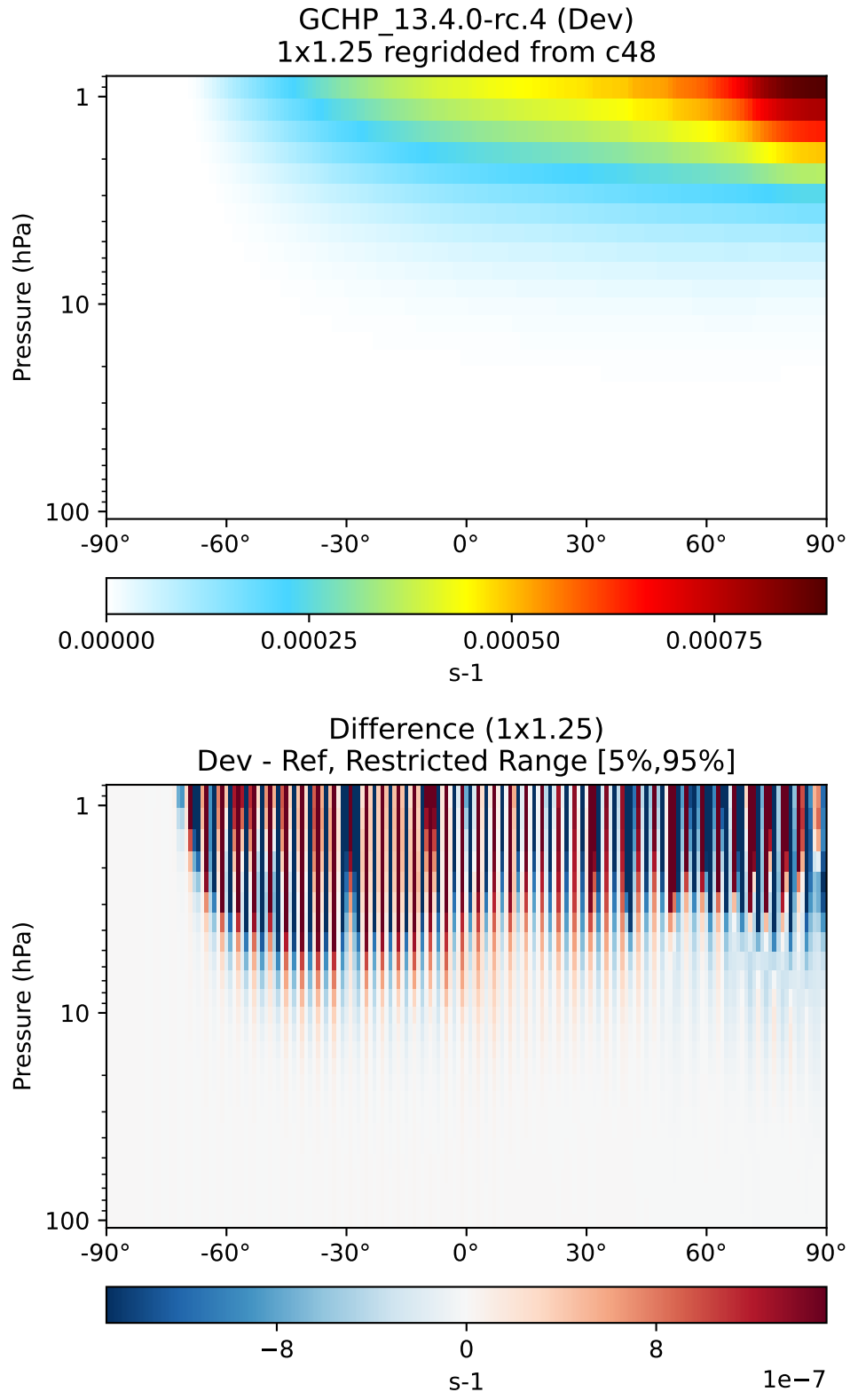
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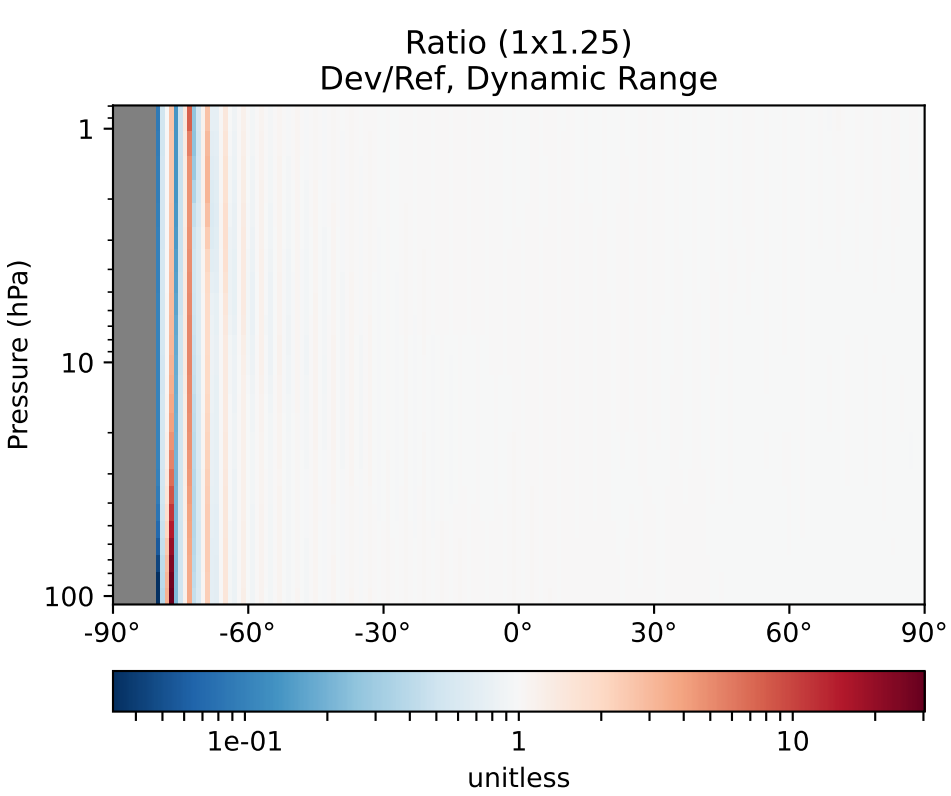


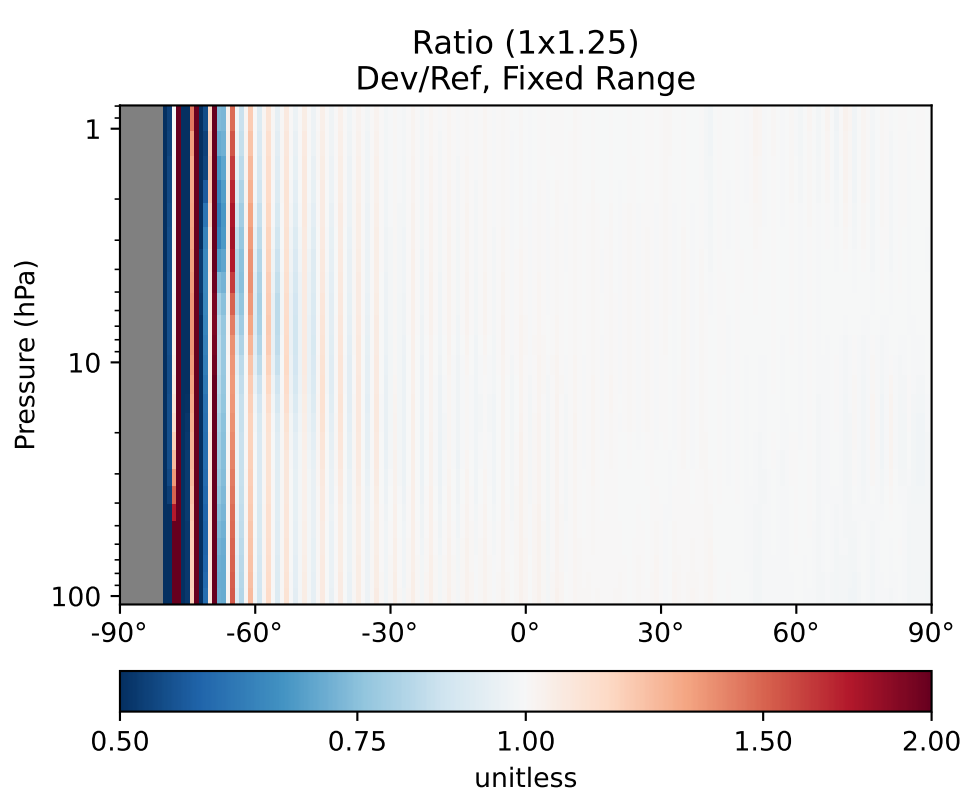


Jval_CHBr3, Zonal Mean

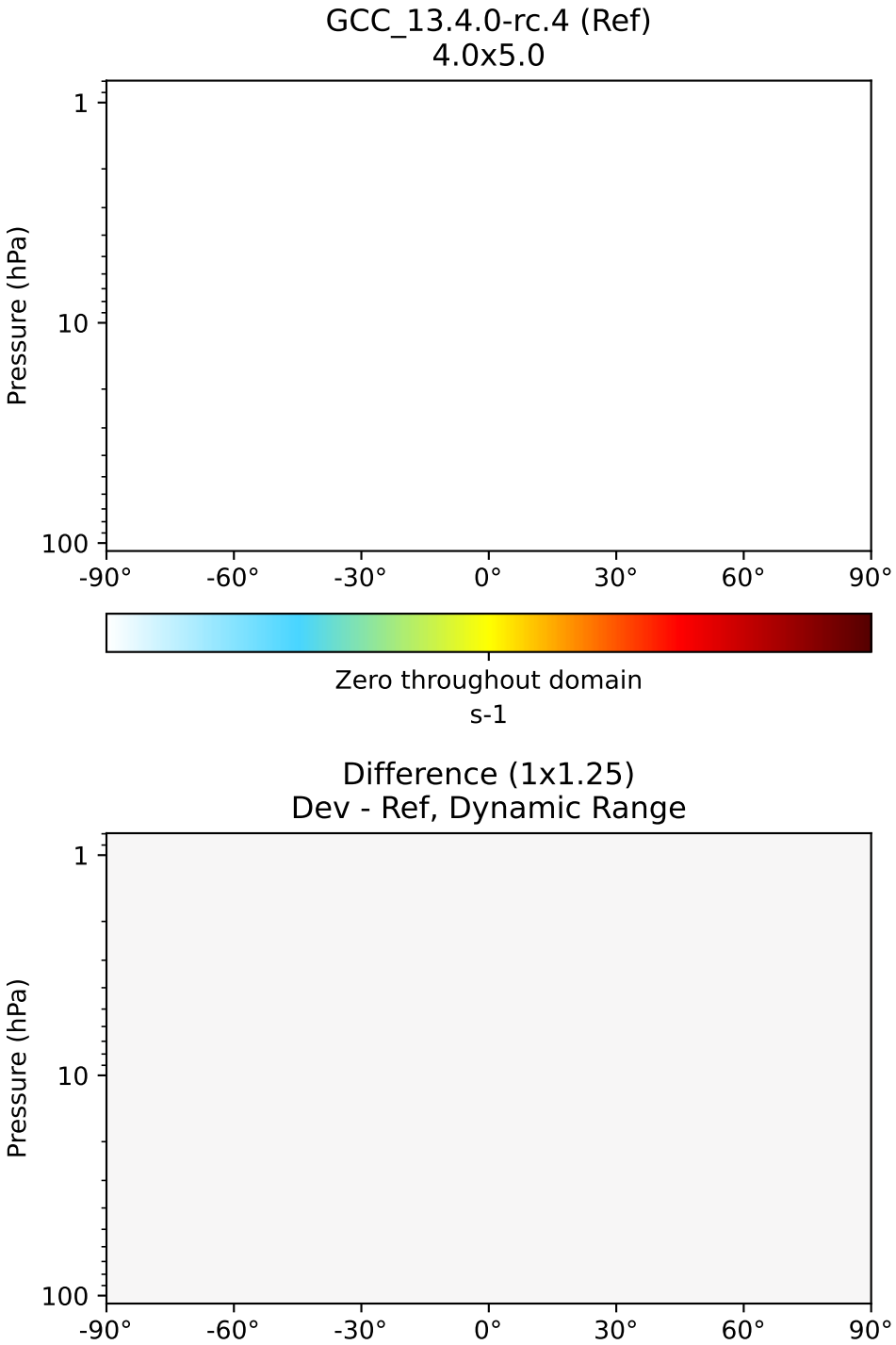


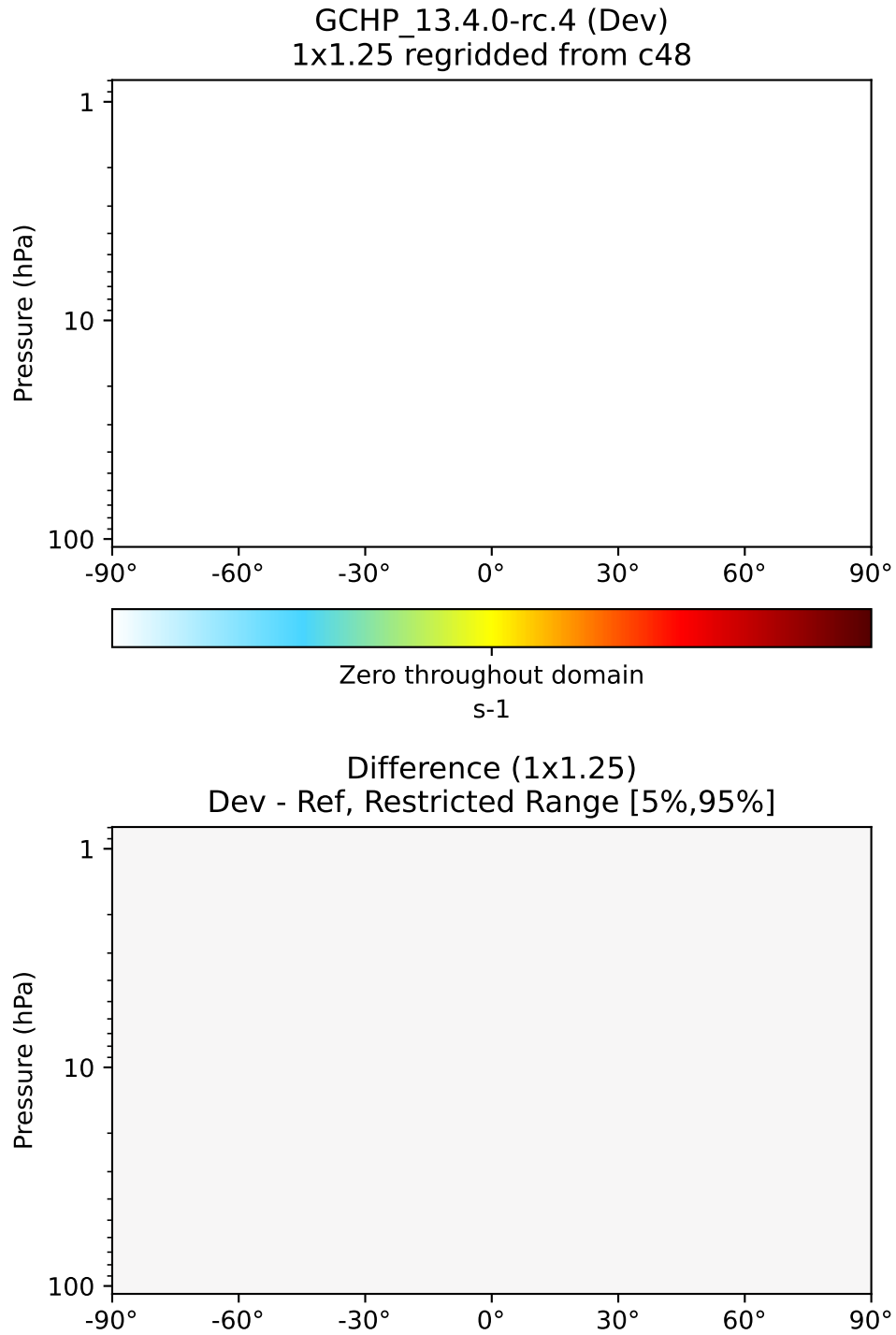


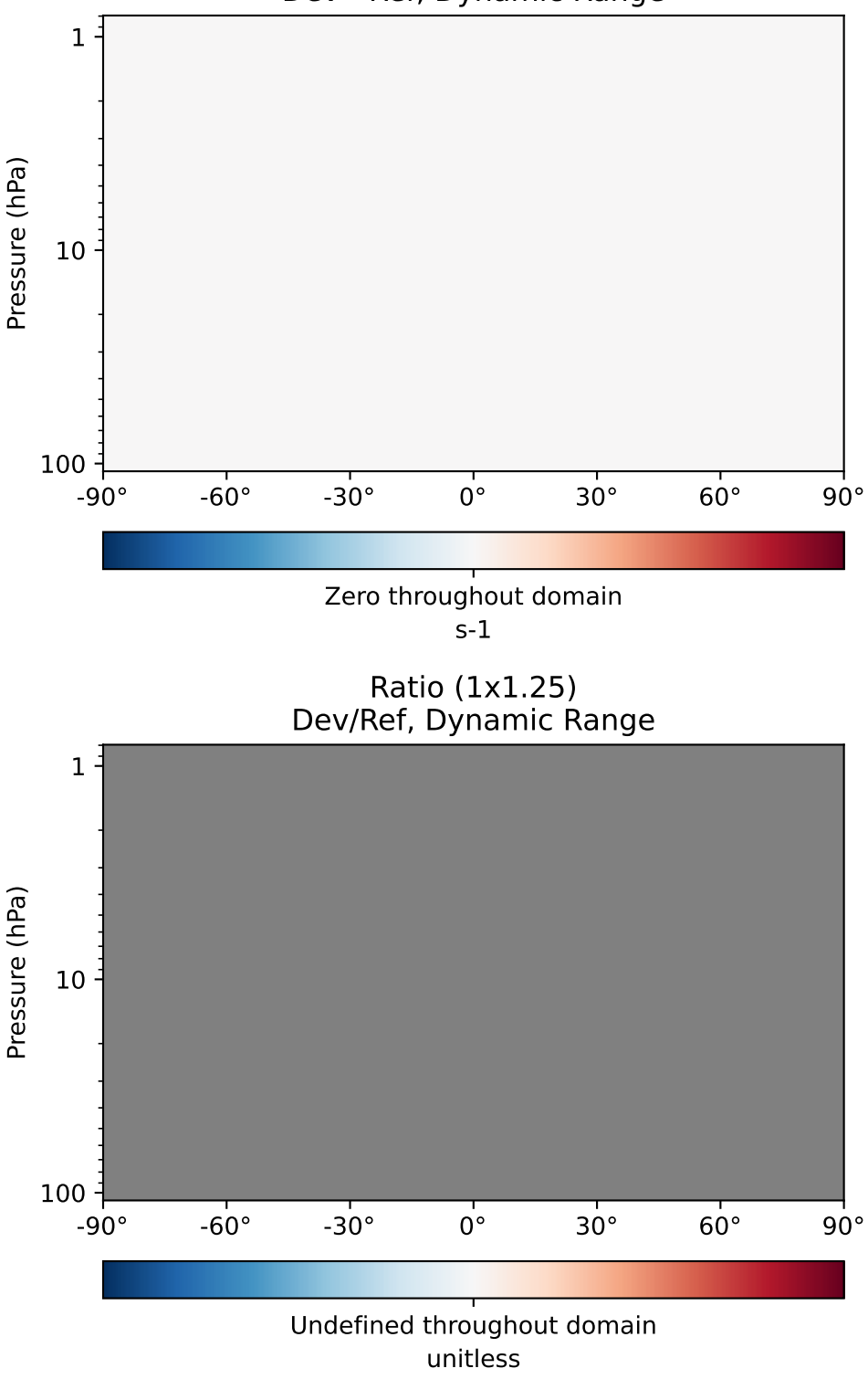


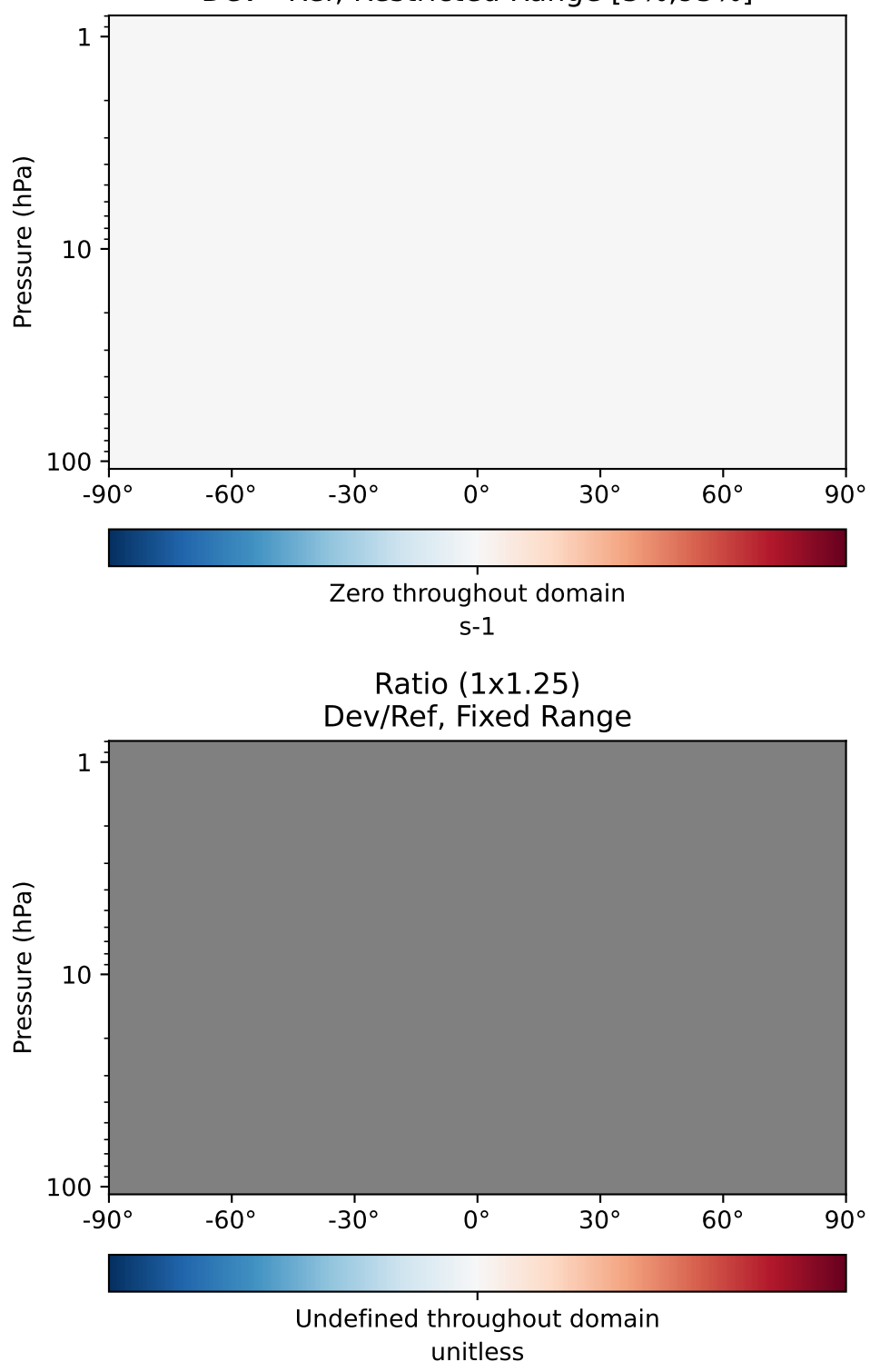


Jval_CHCl3, Zonal Mean

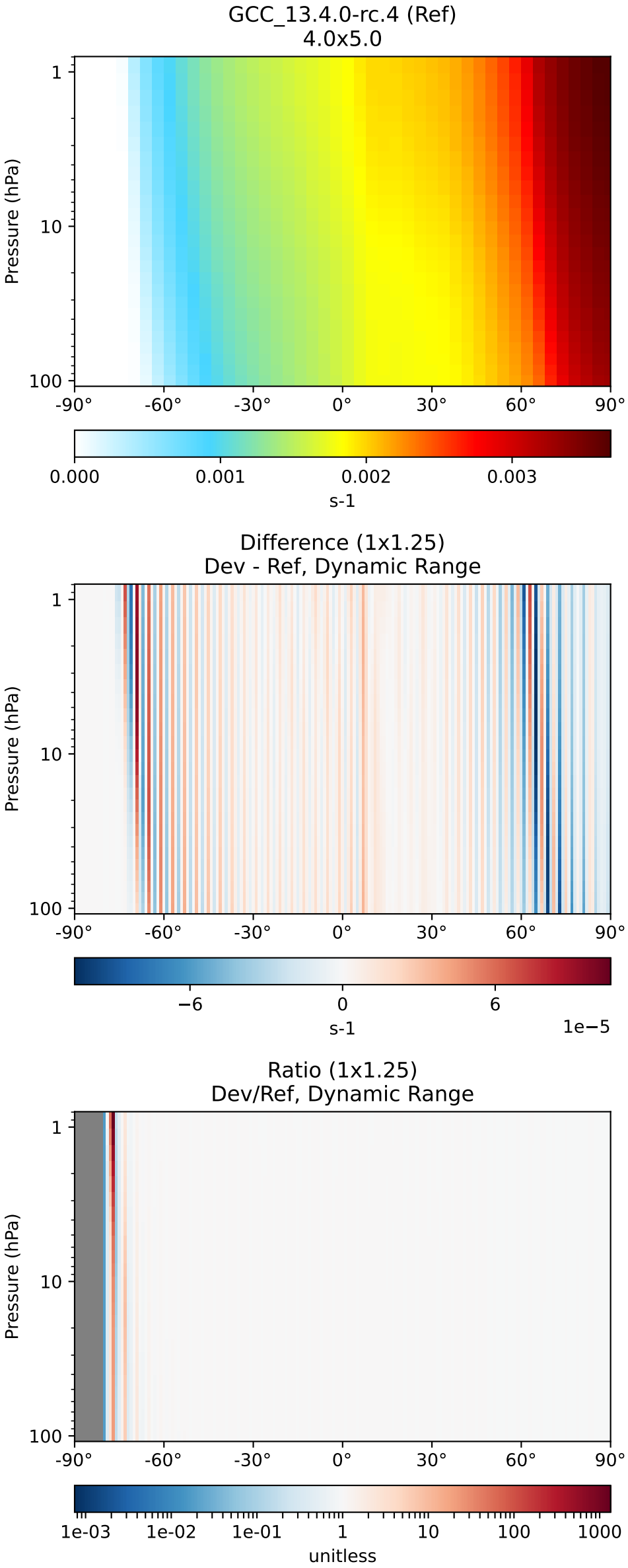


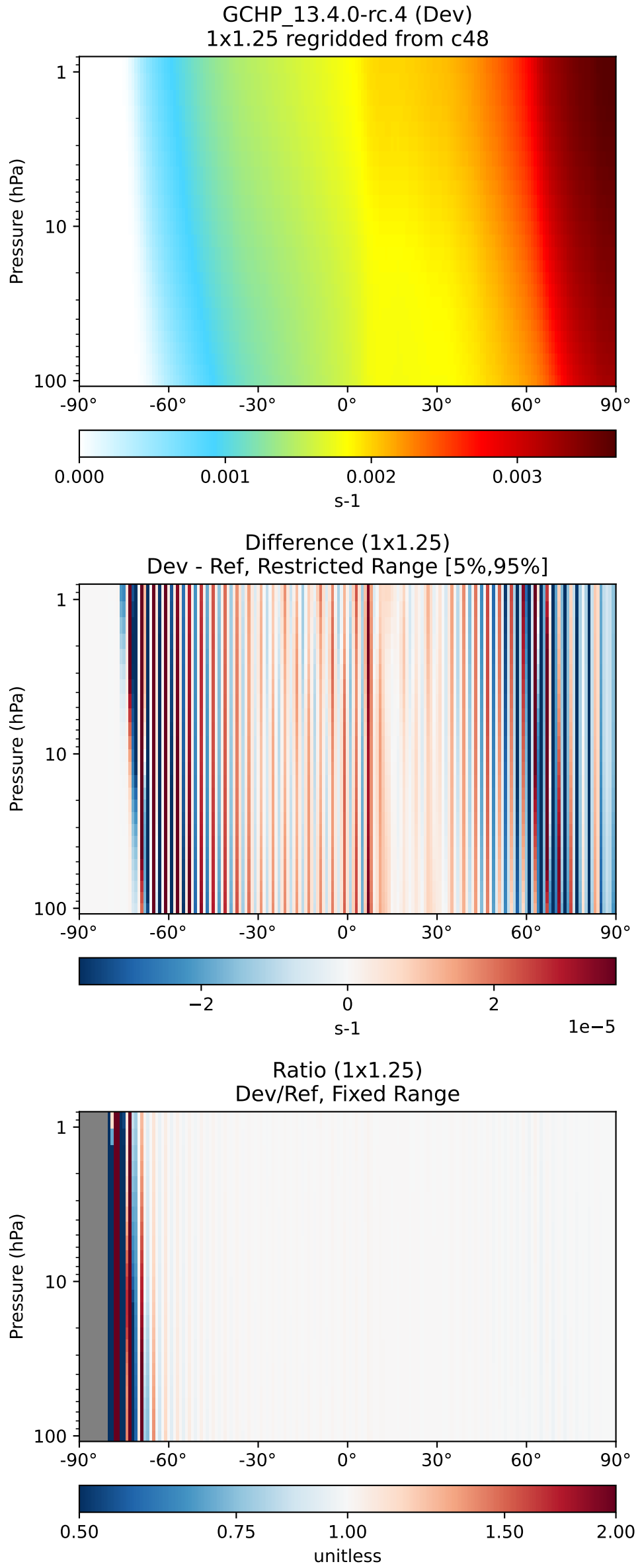




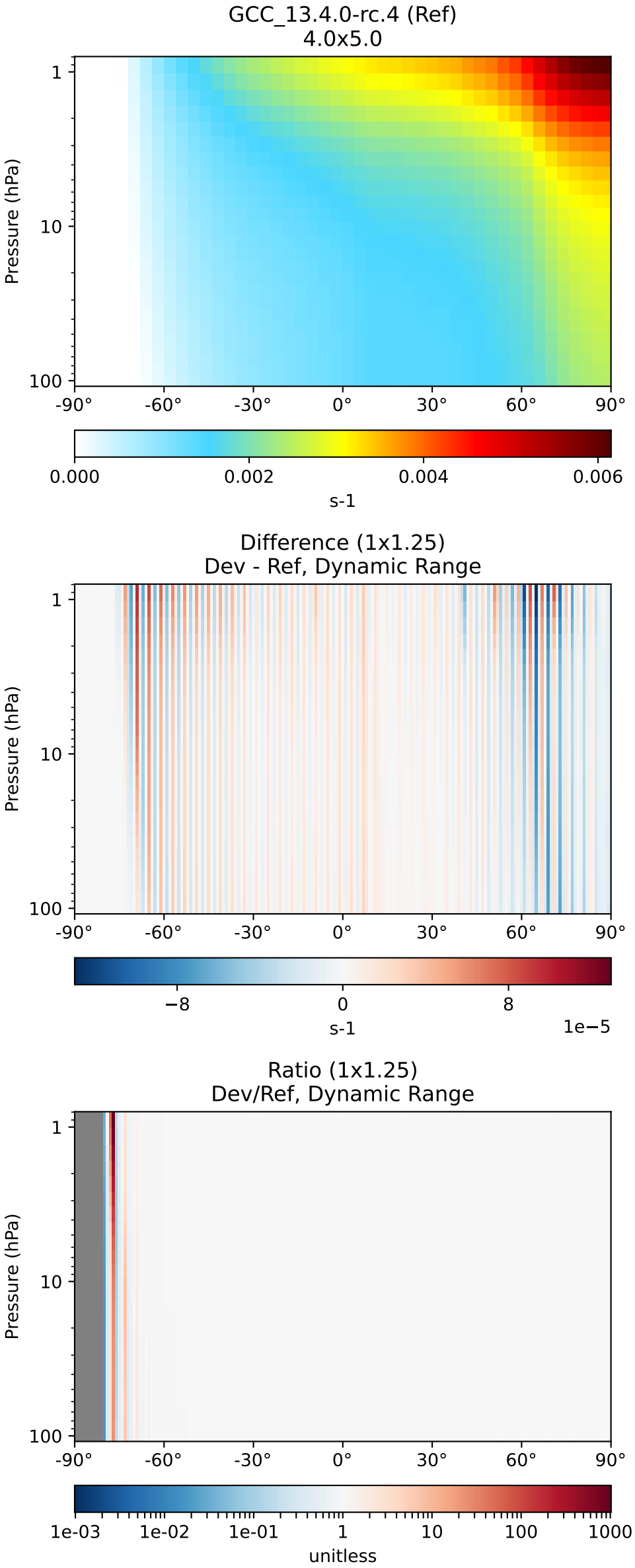


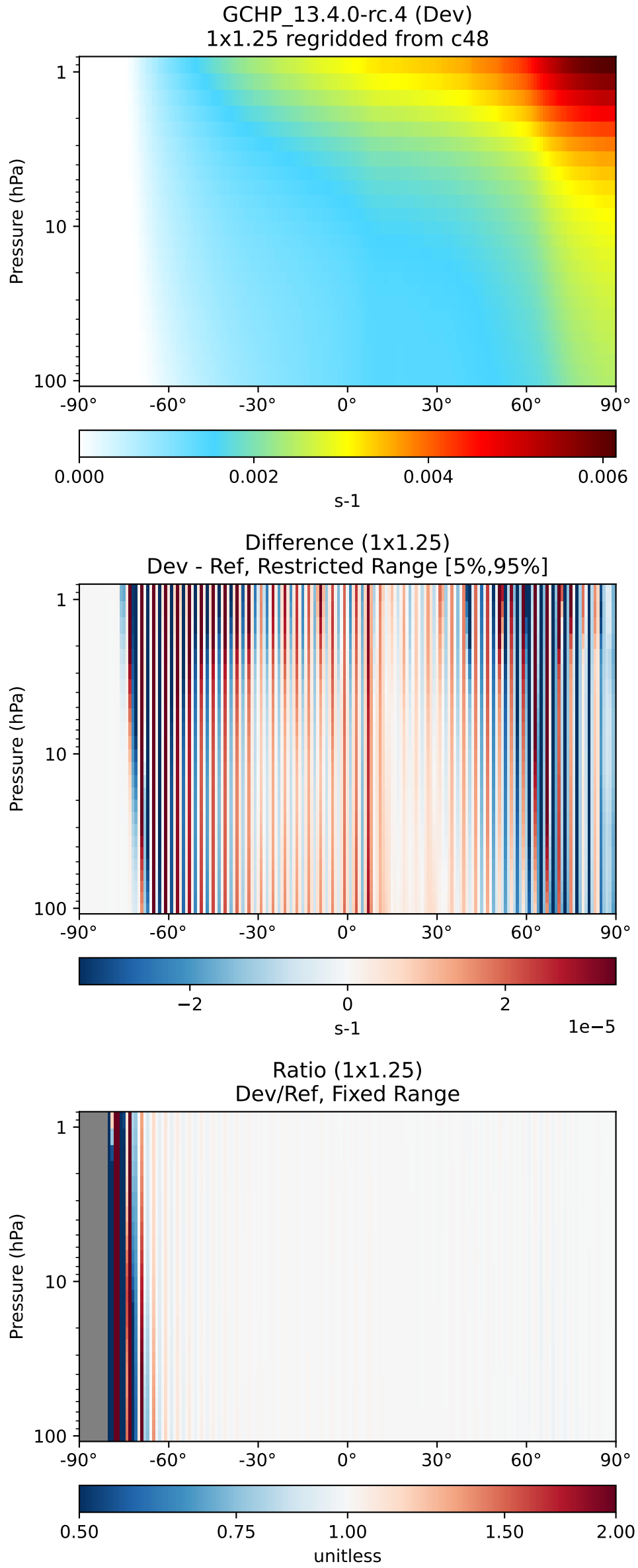
Jval_Cl2, Zonal Mean



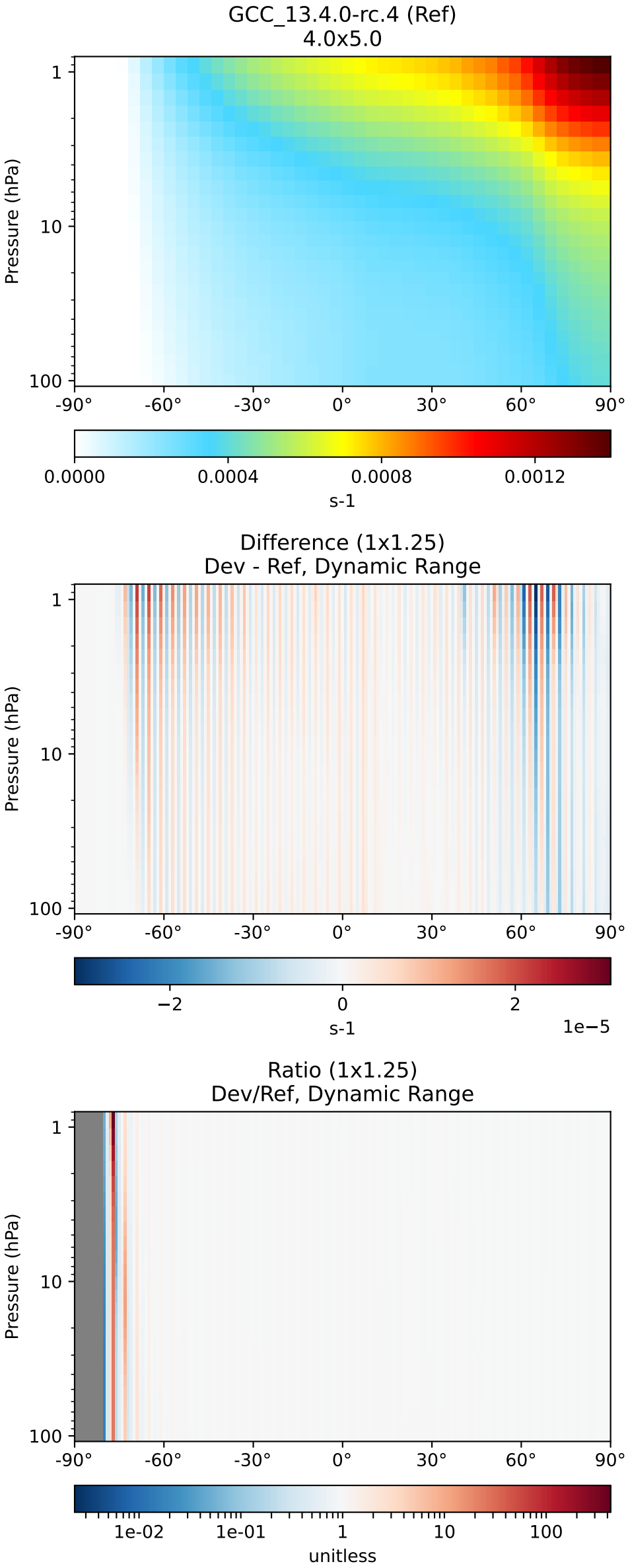


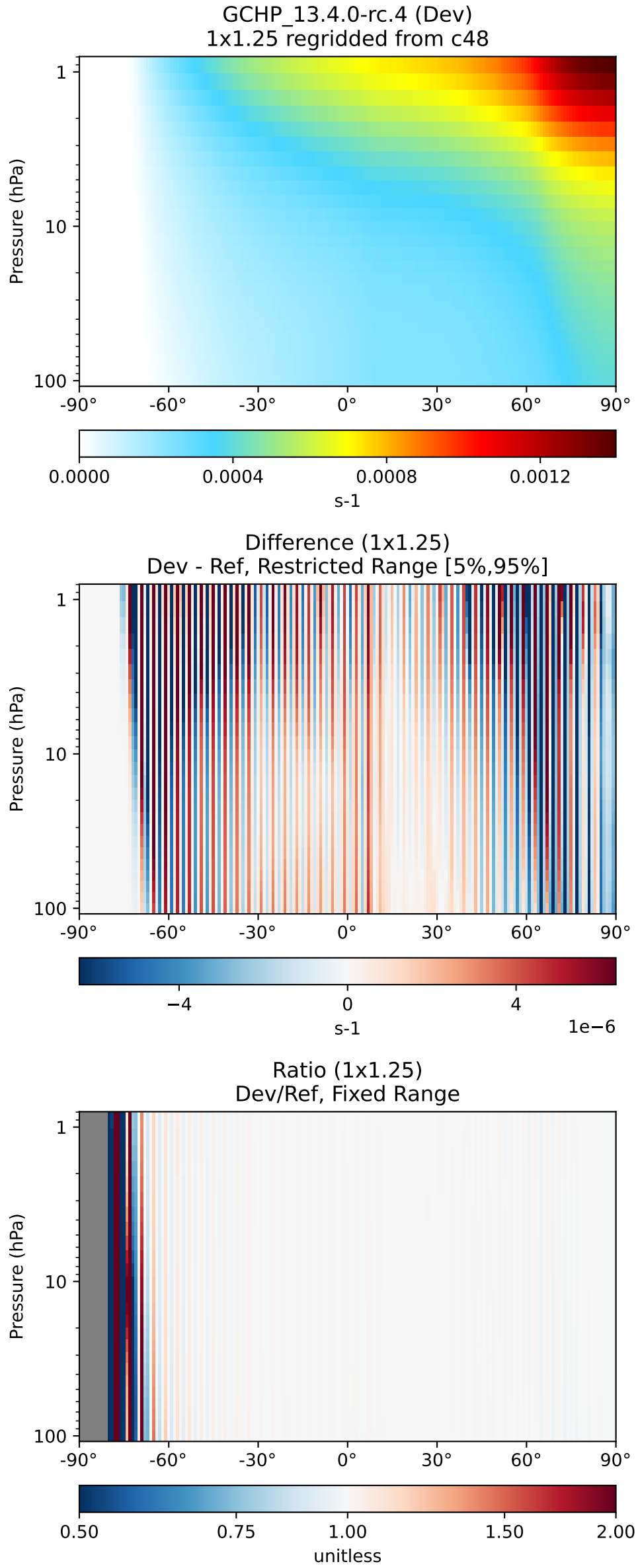
Jval_Cl2O2, Zonal Mean



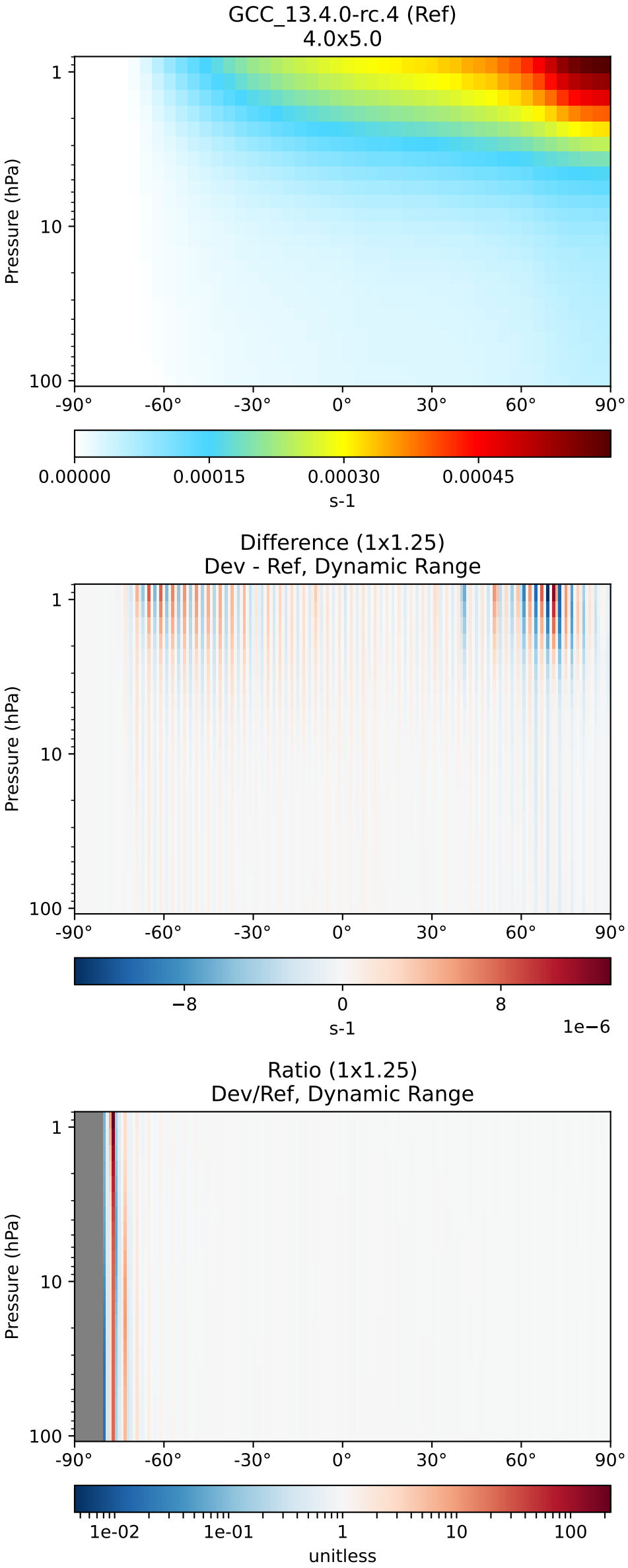


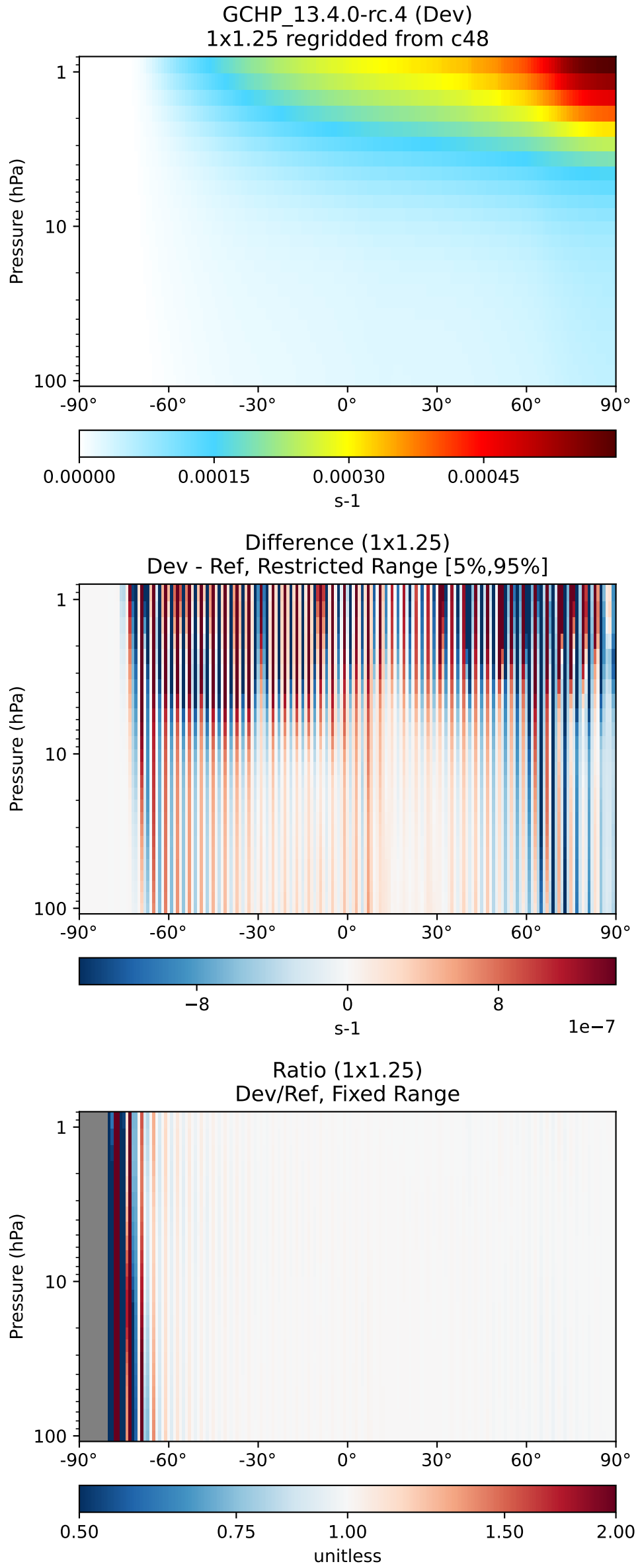
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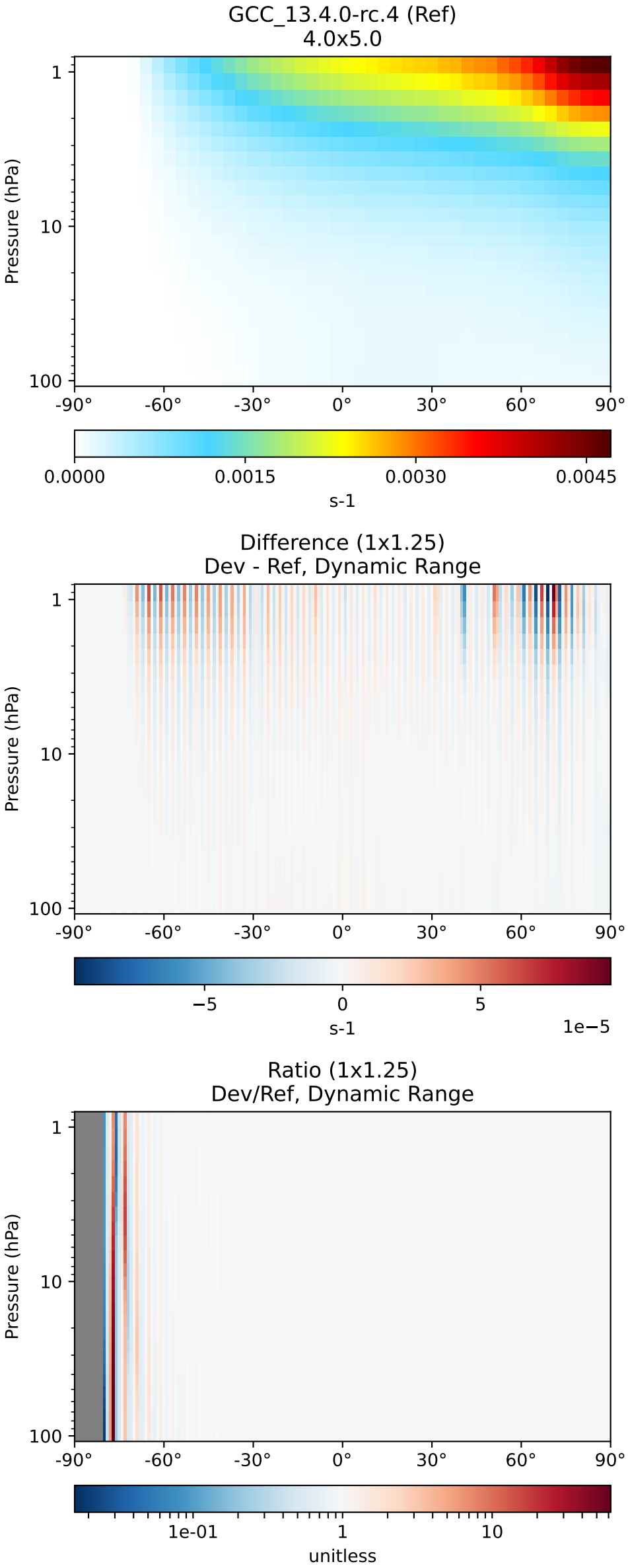


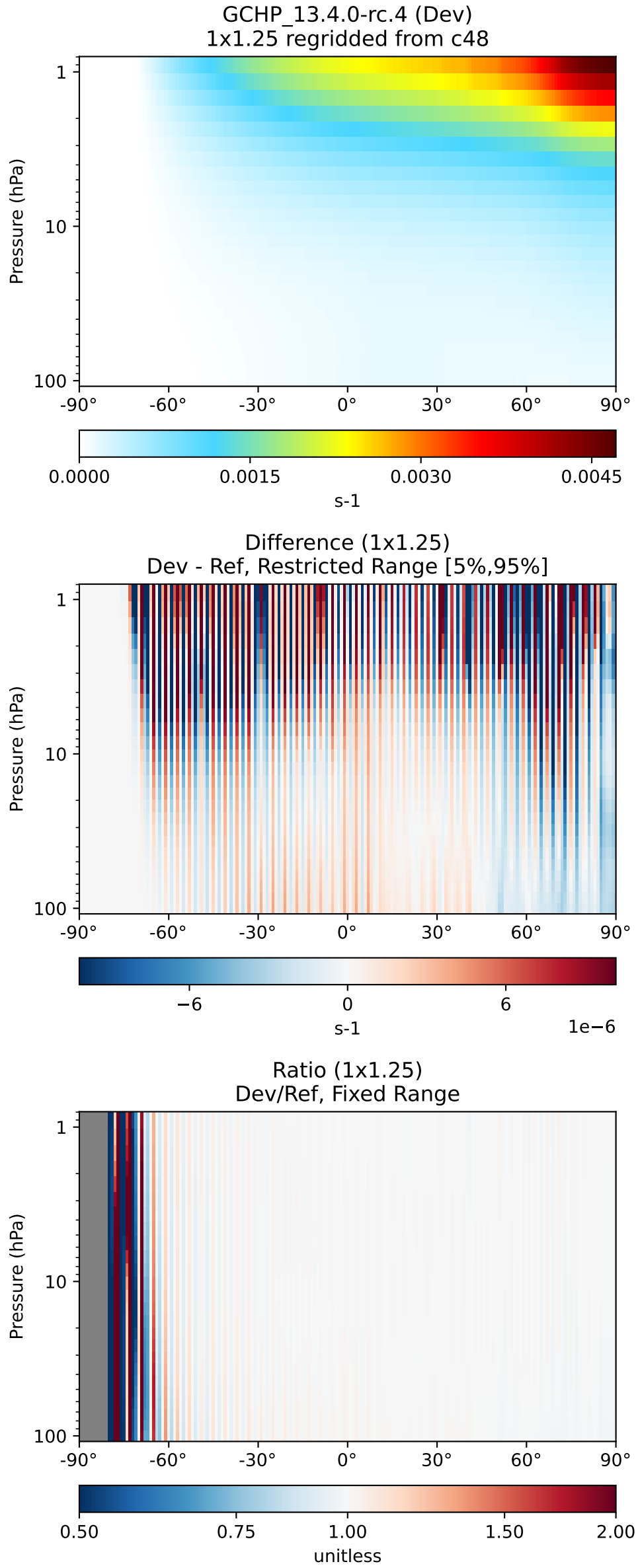
Jval_ClNO3, Zonal Mean



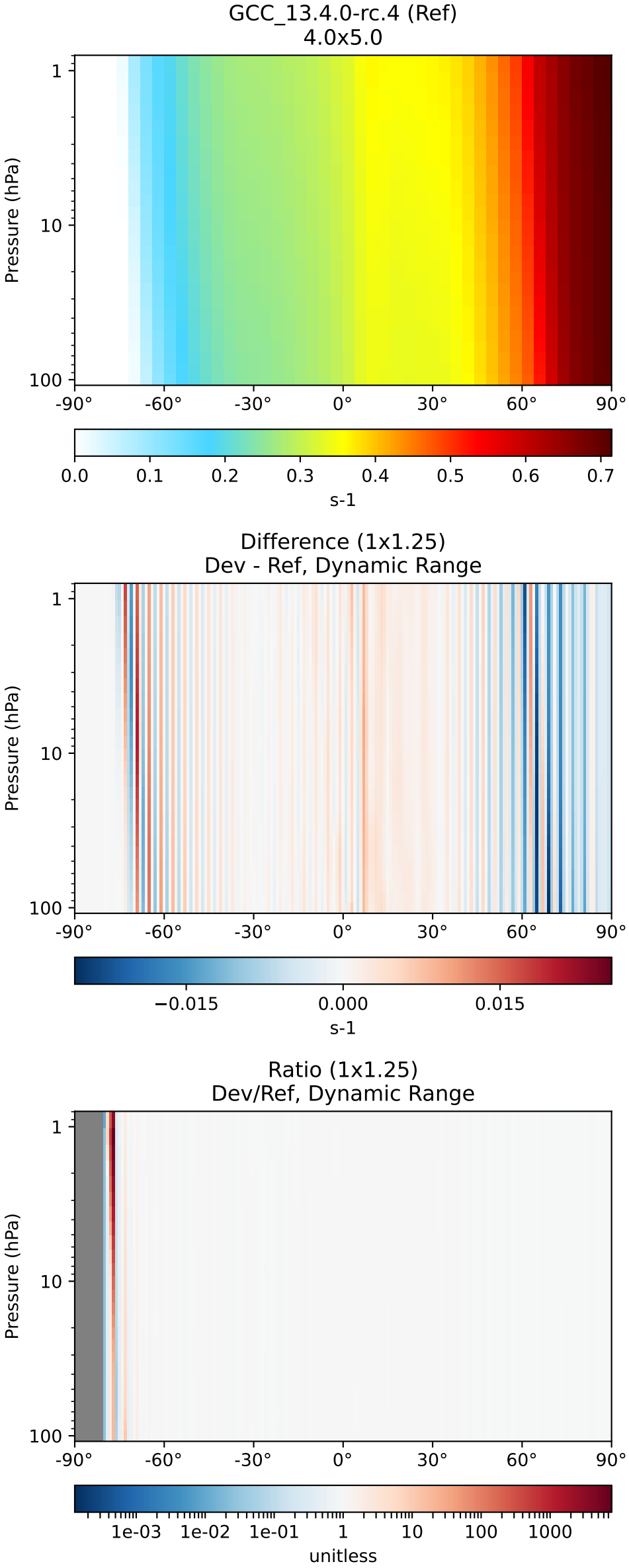


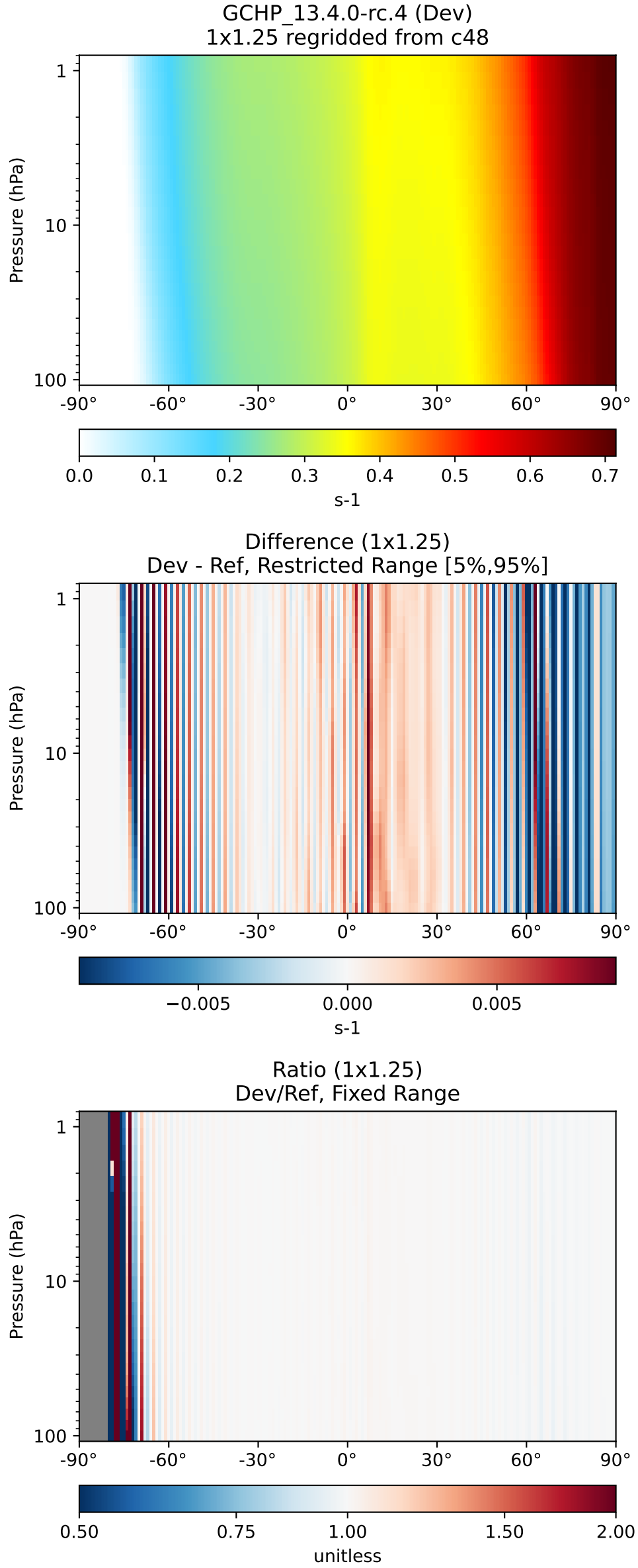
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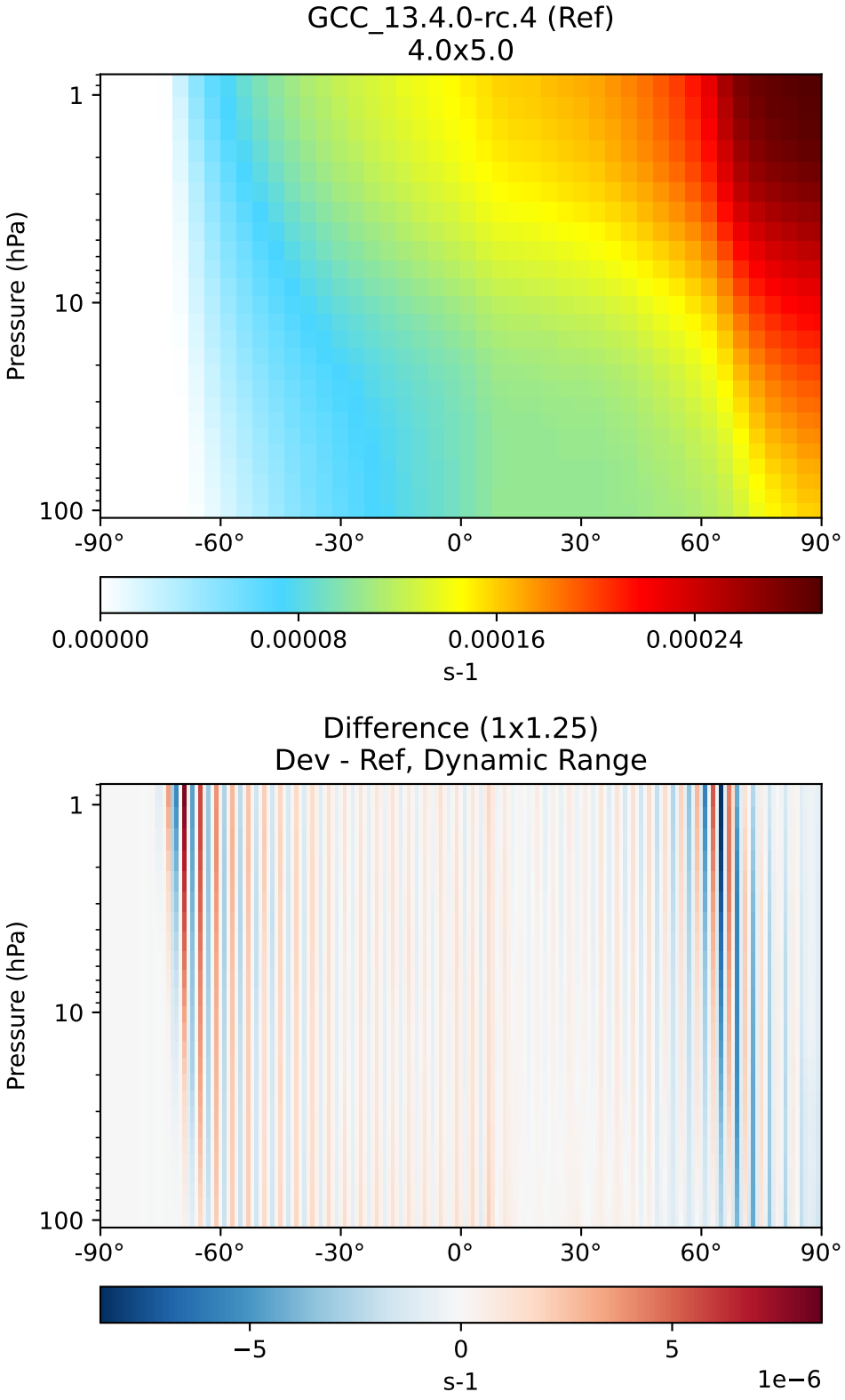


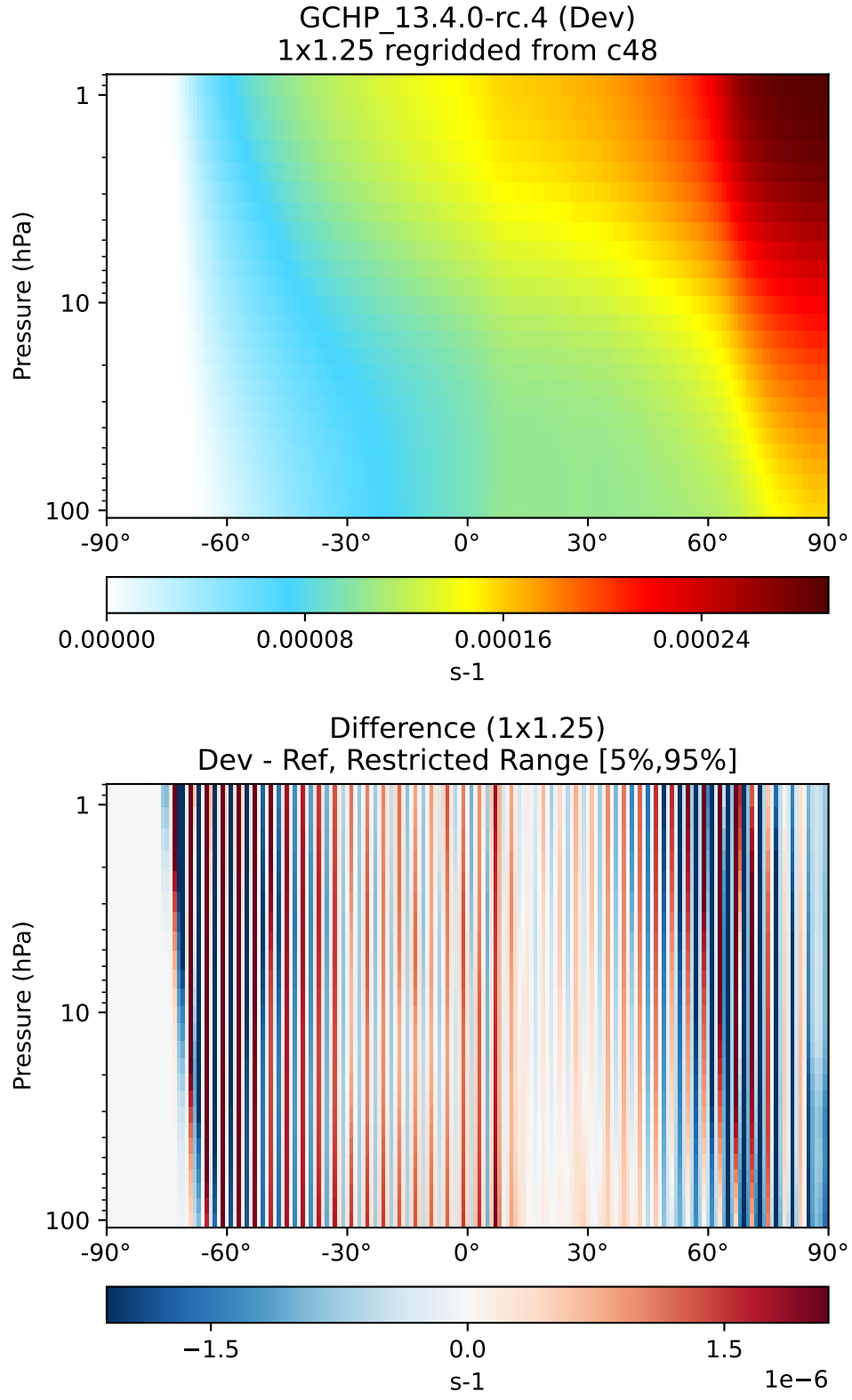
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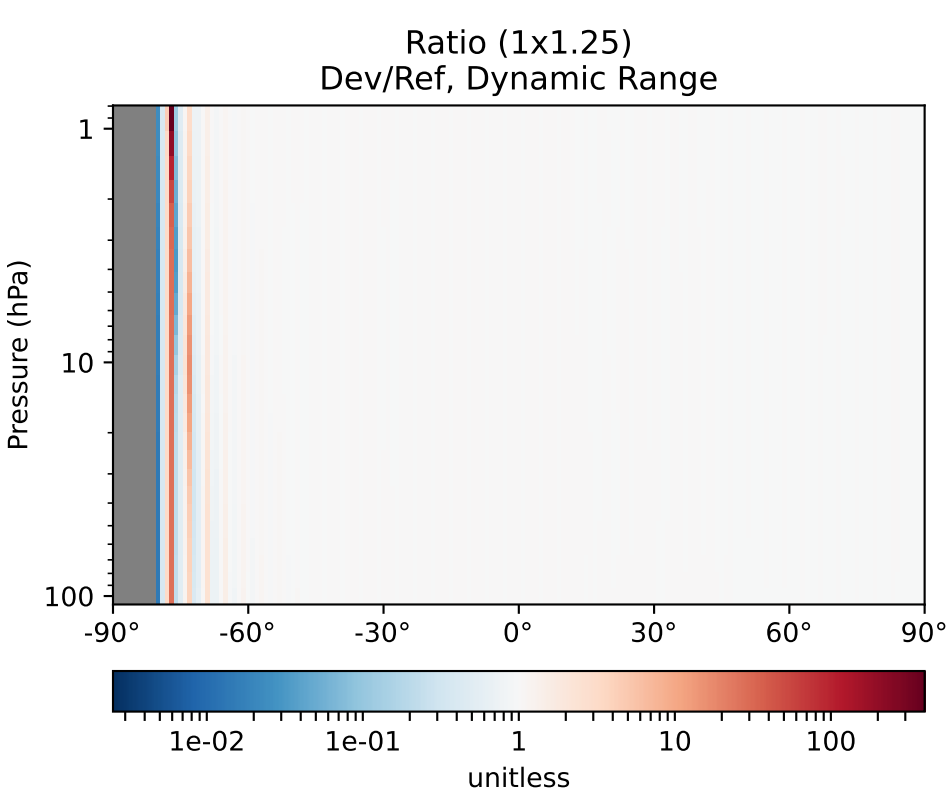


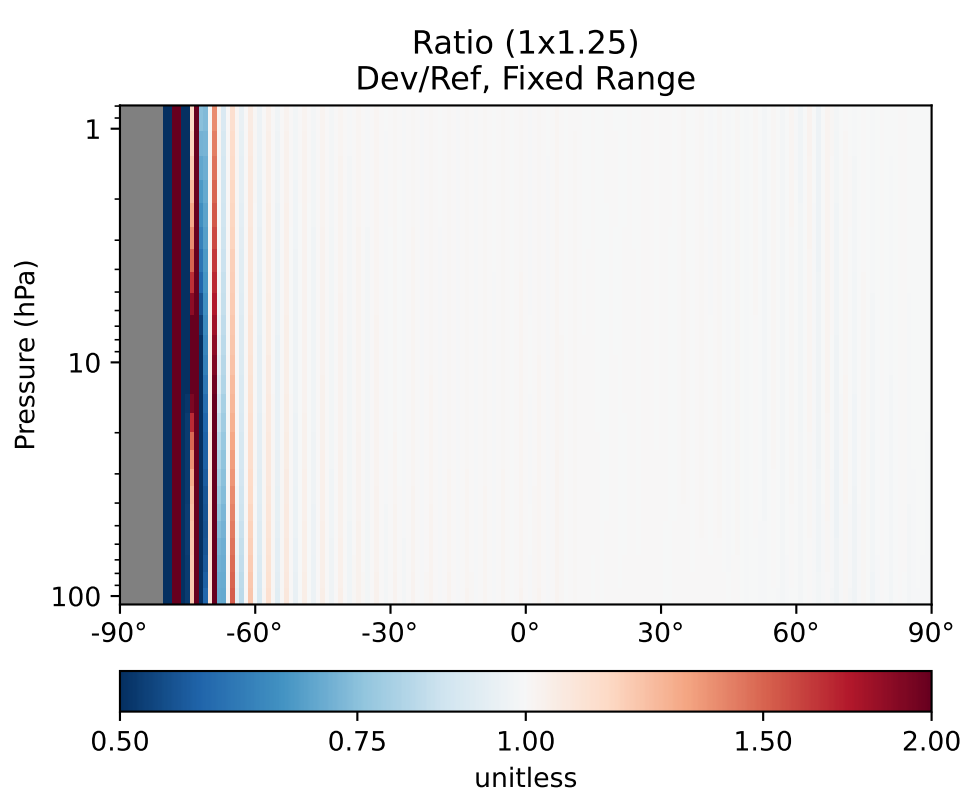


Jval_ETHLN, Zonal Mean

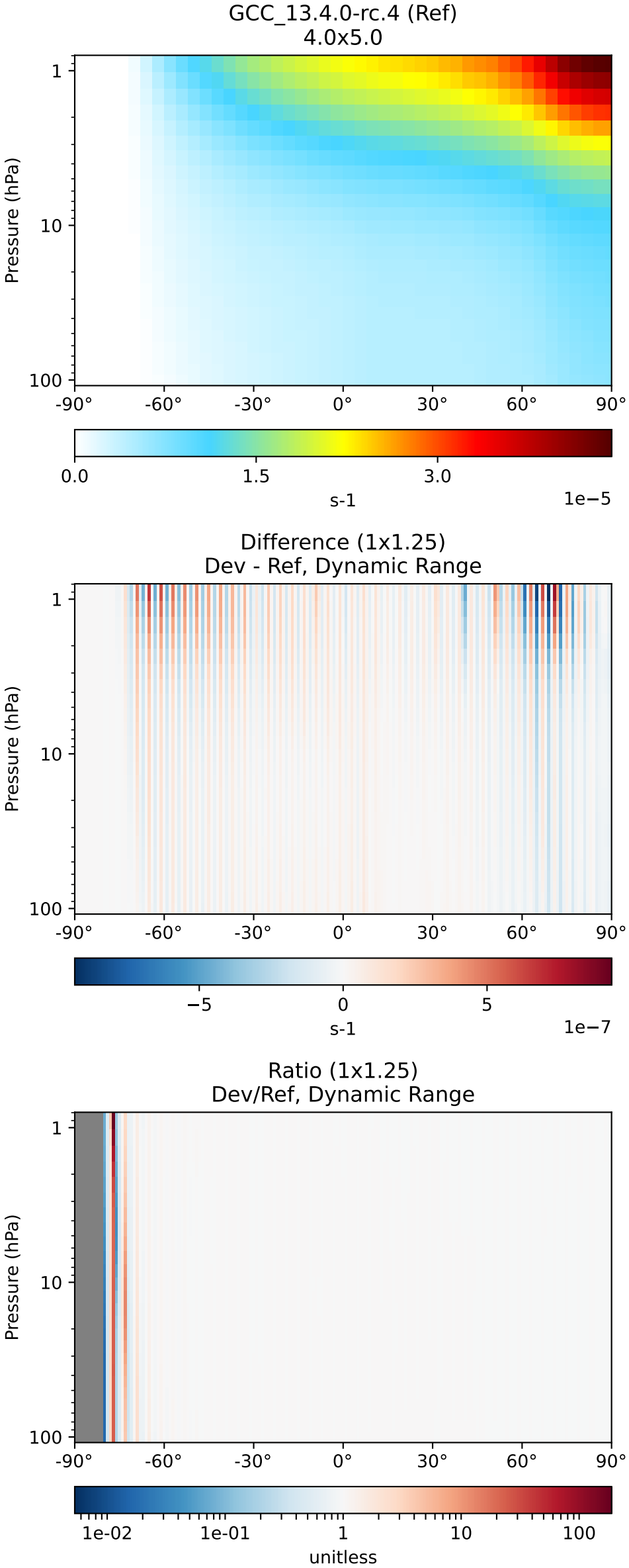


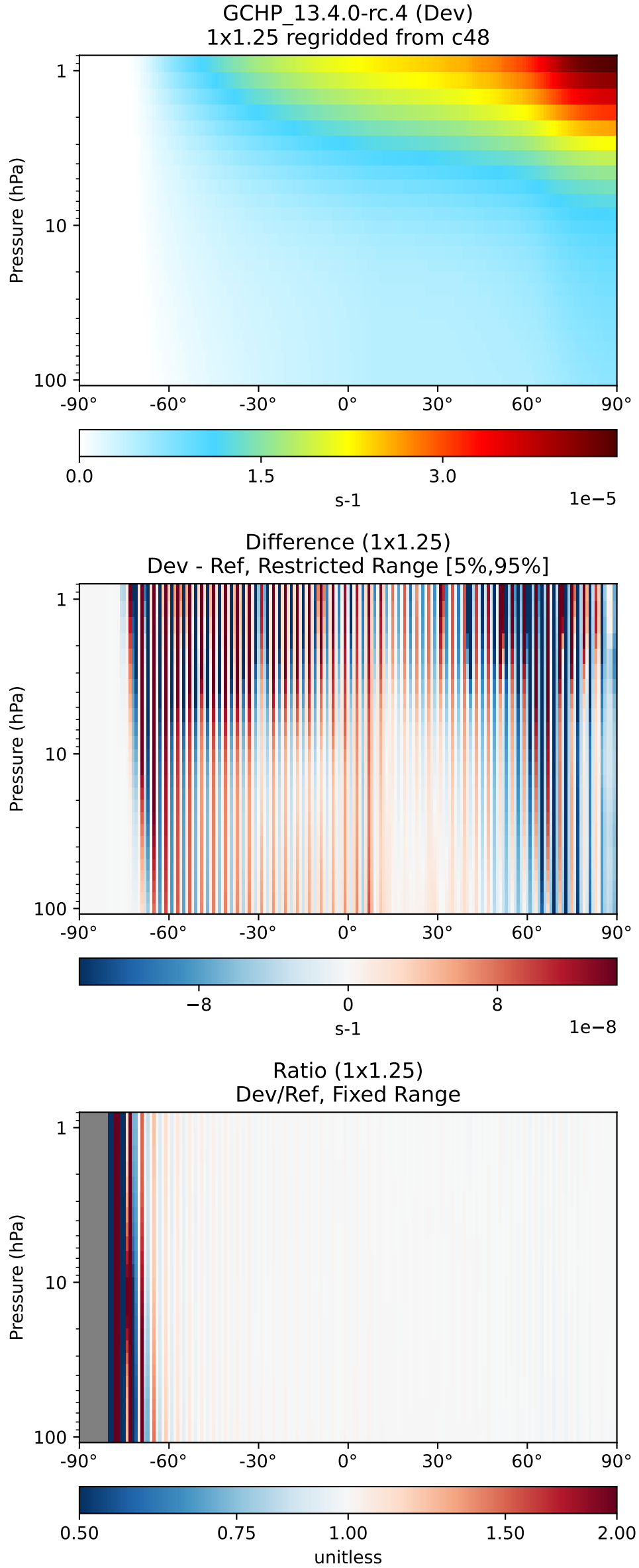




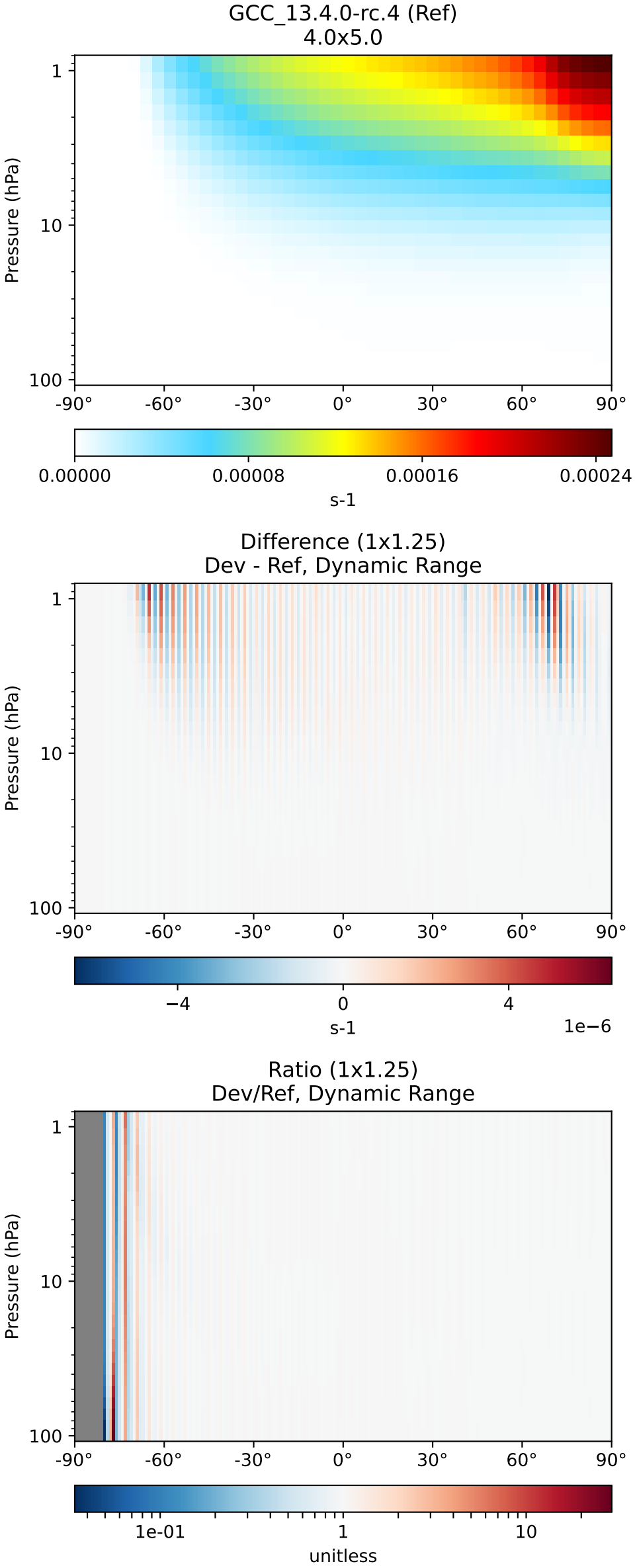


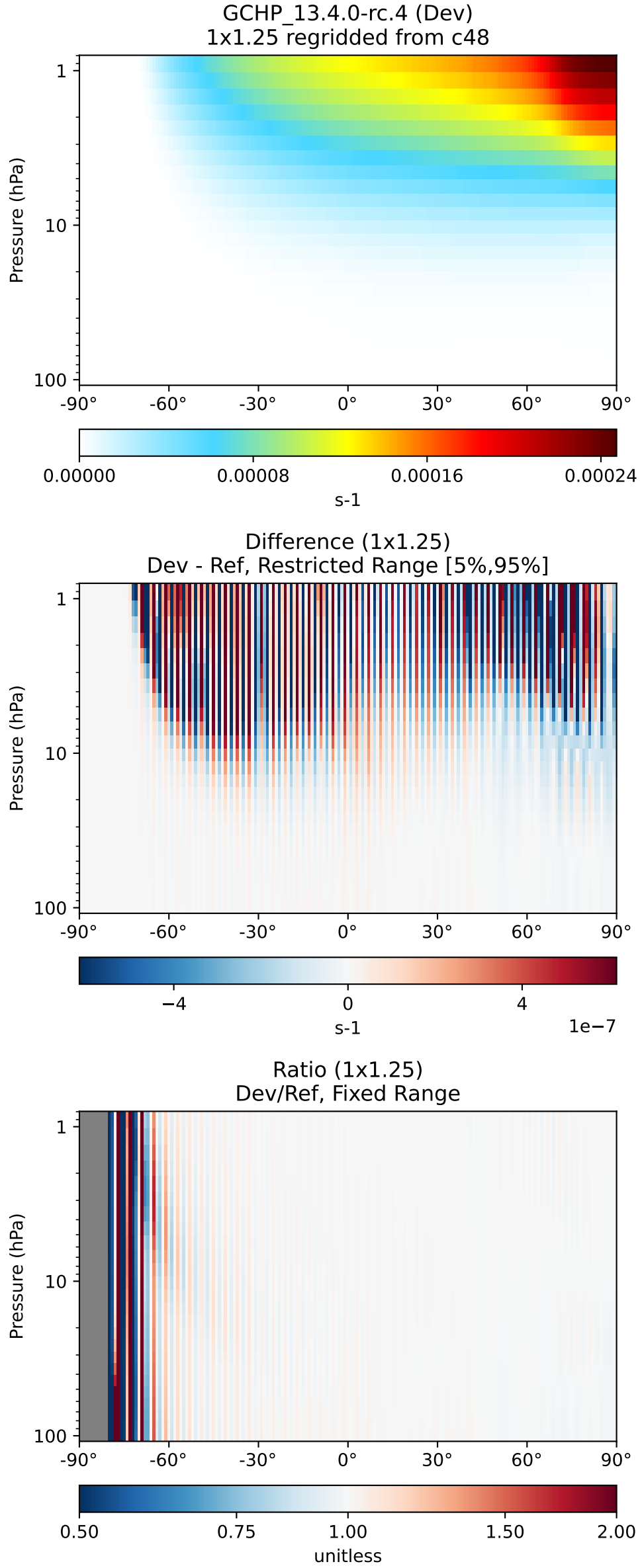
Jval_ETHP, Zonal Mean



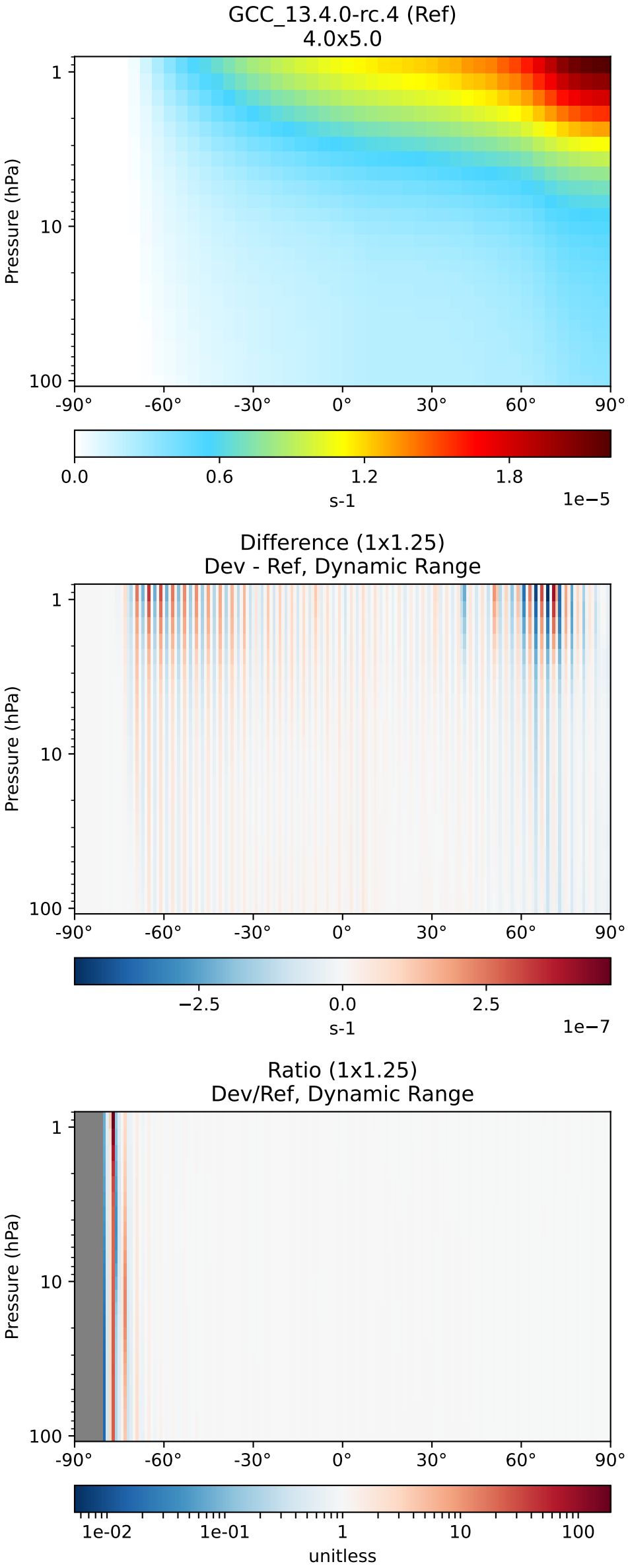


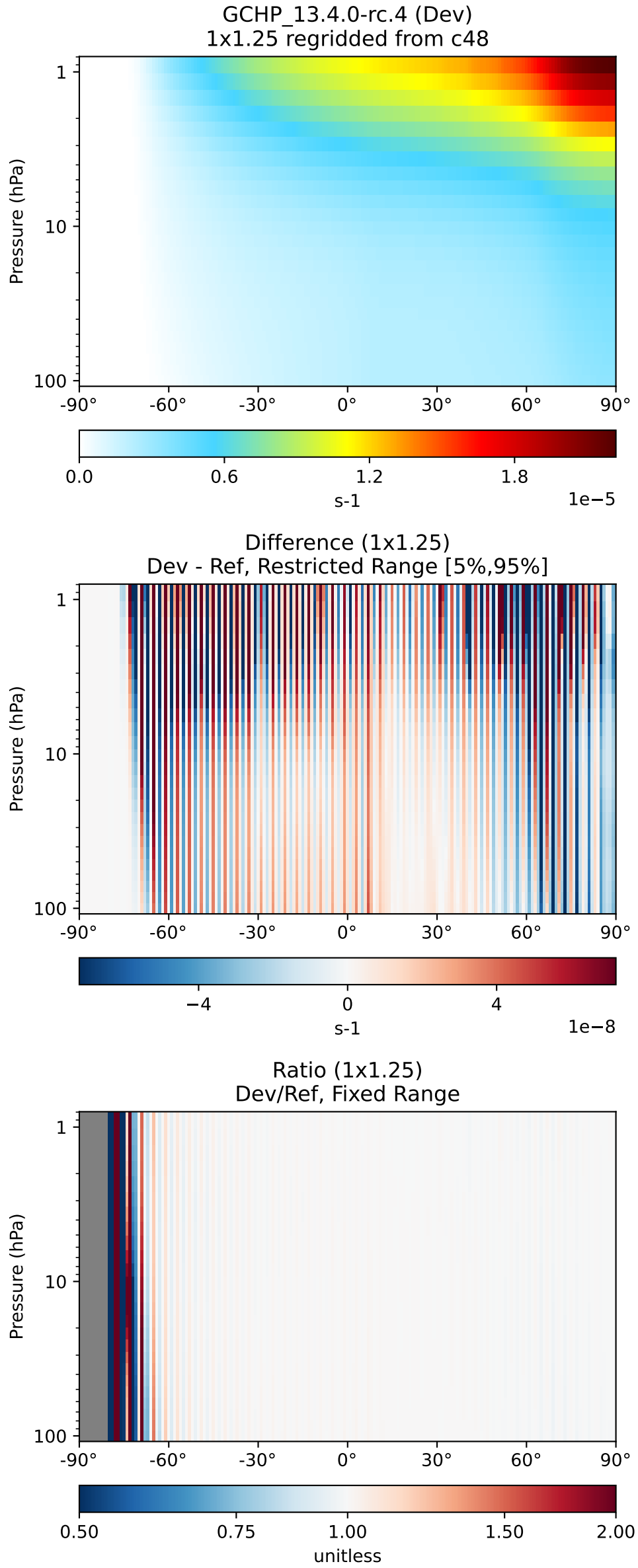
Jval_ETNO3, Zonal Mean



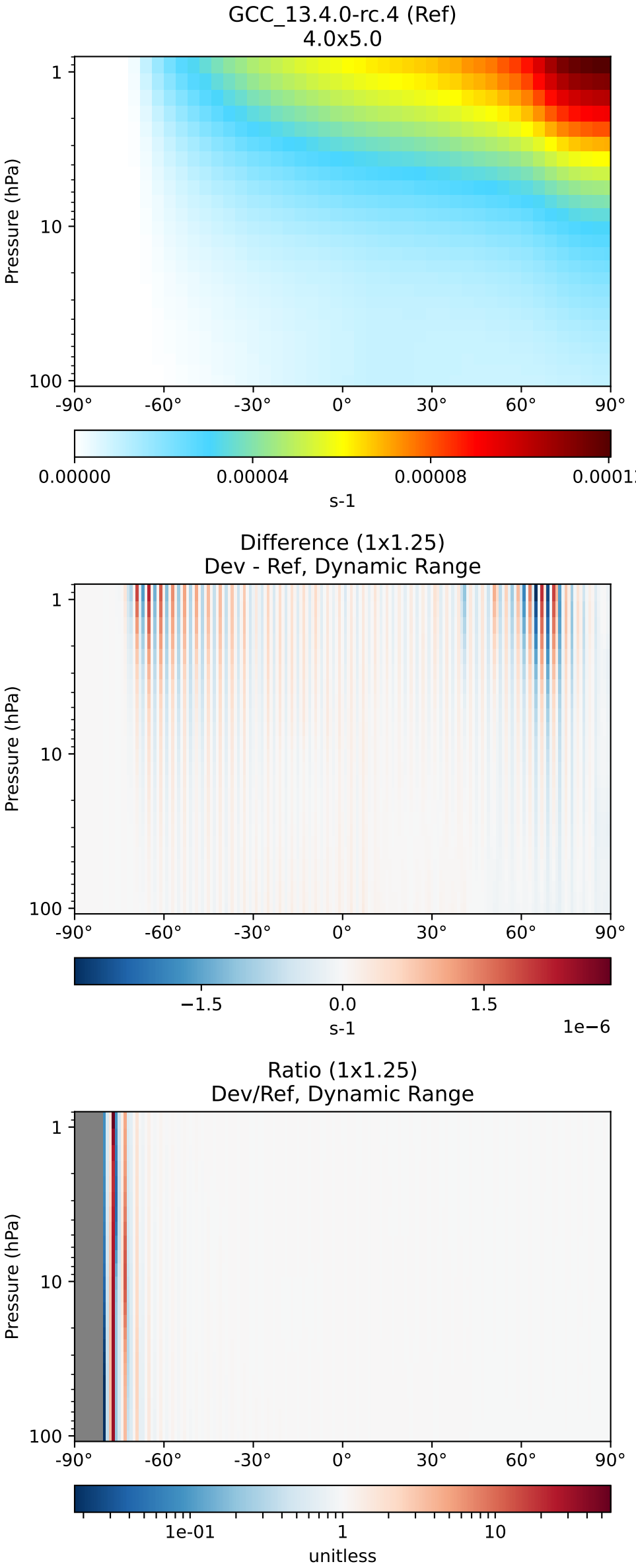


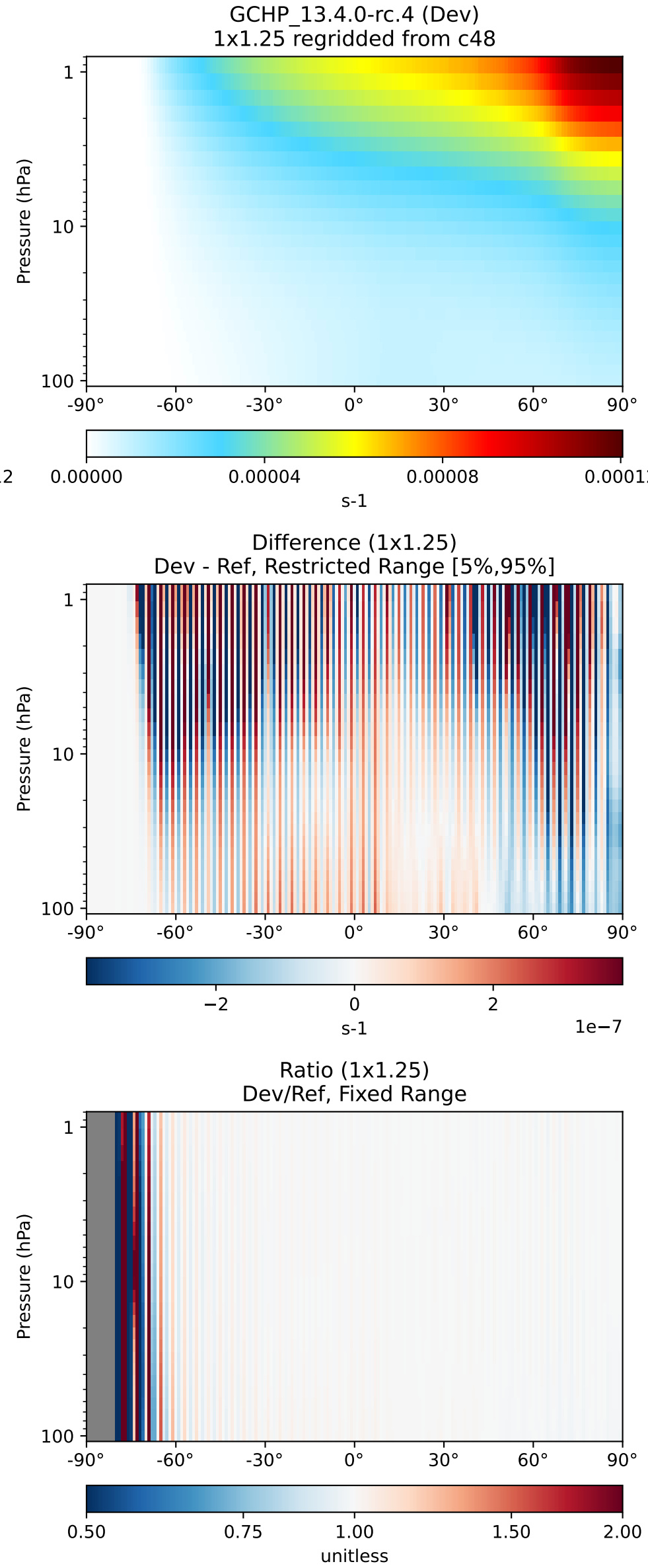
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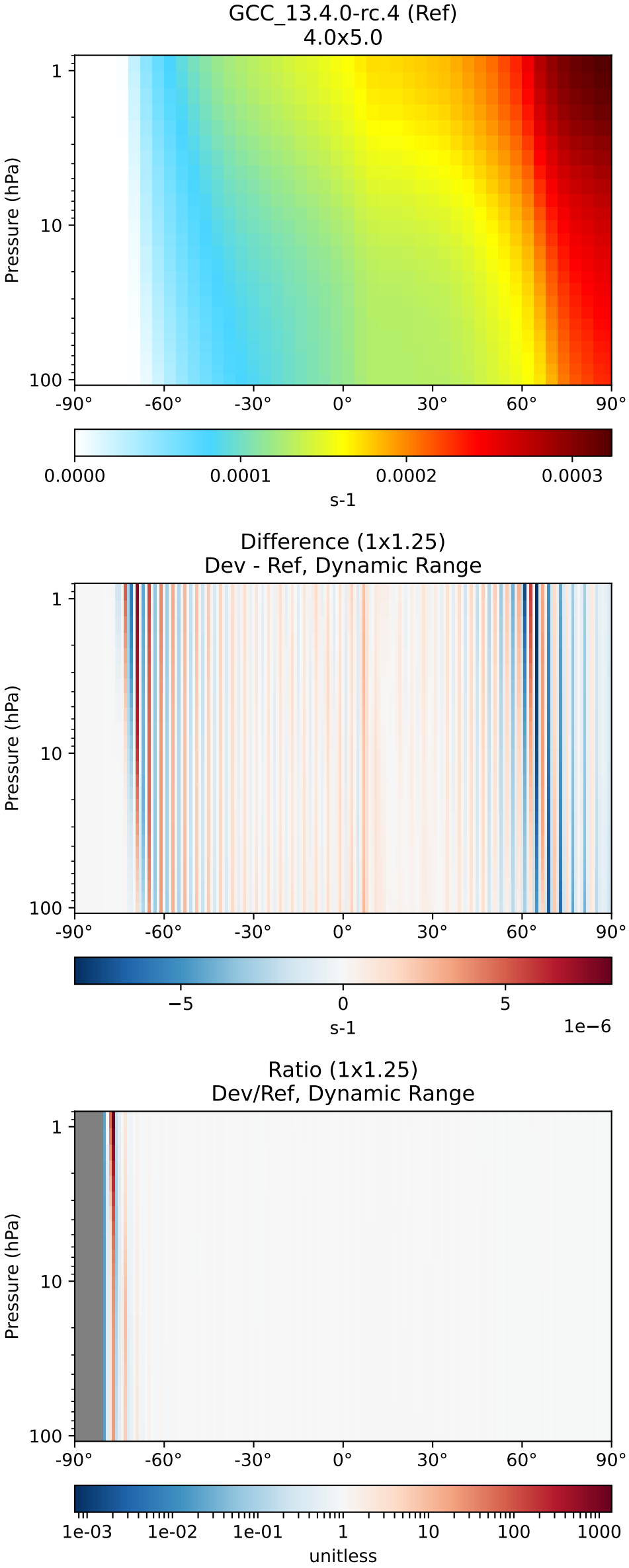


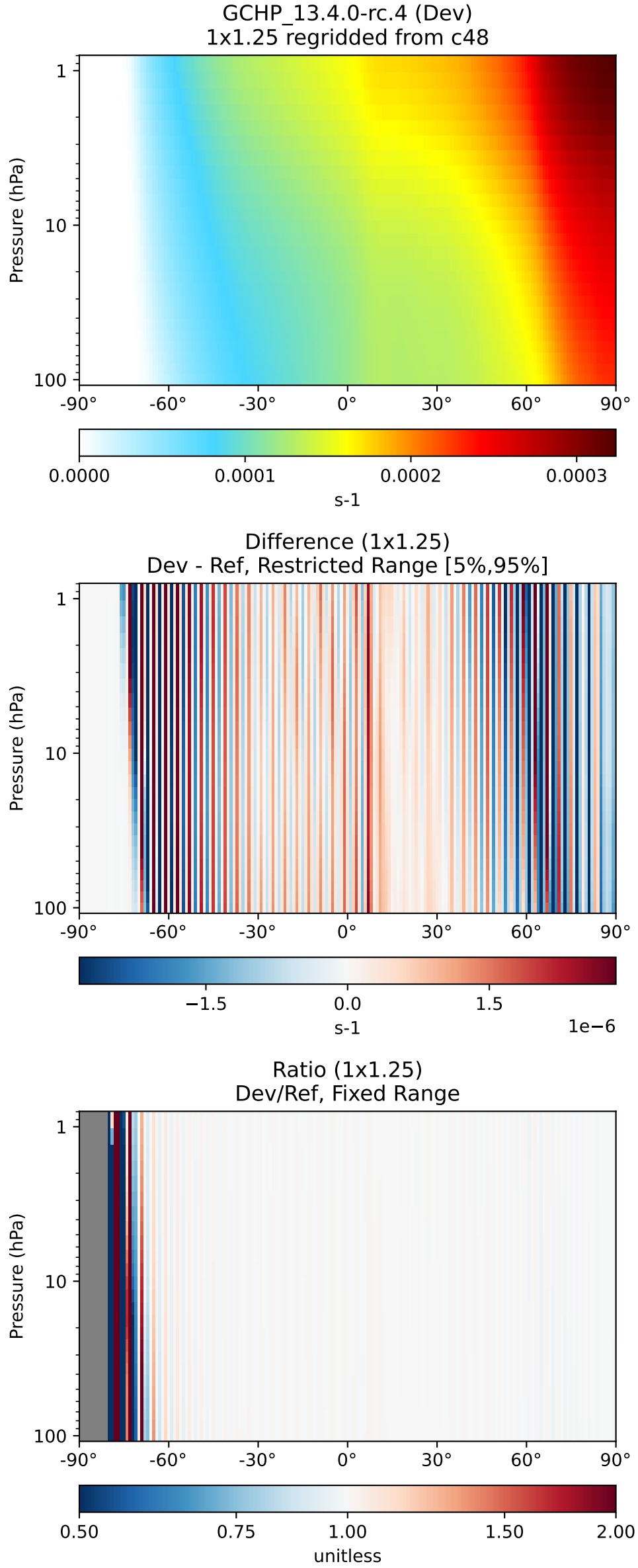
Jval_GLYC, Zonal Mean



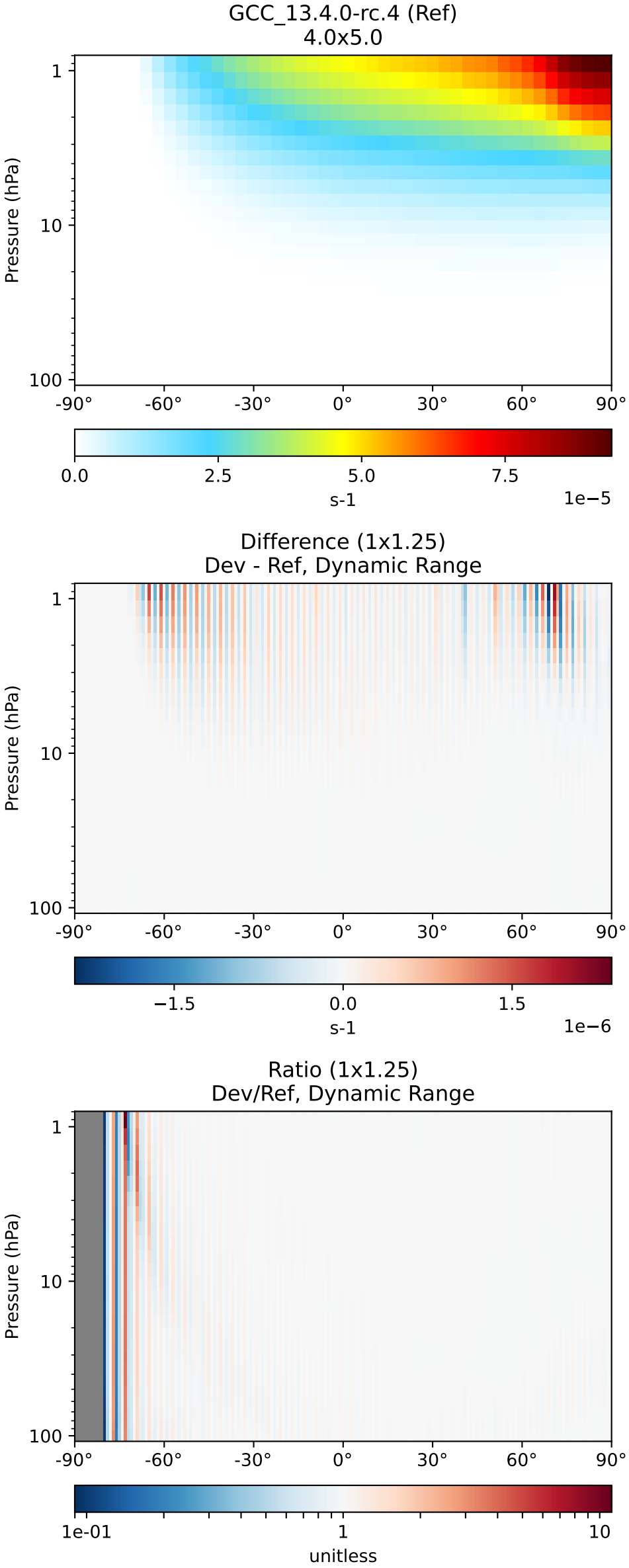


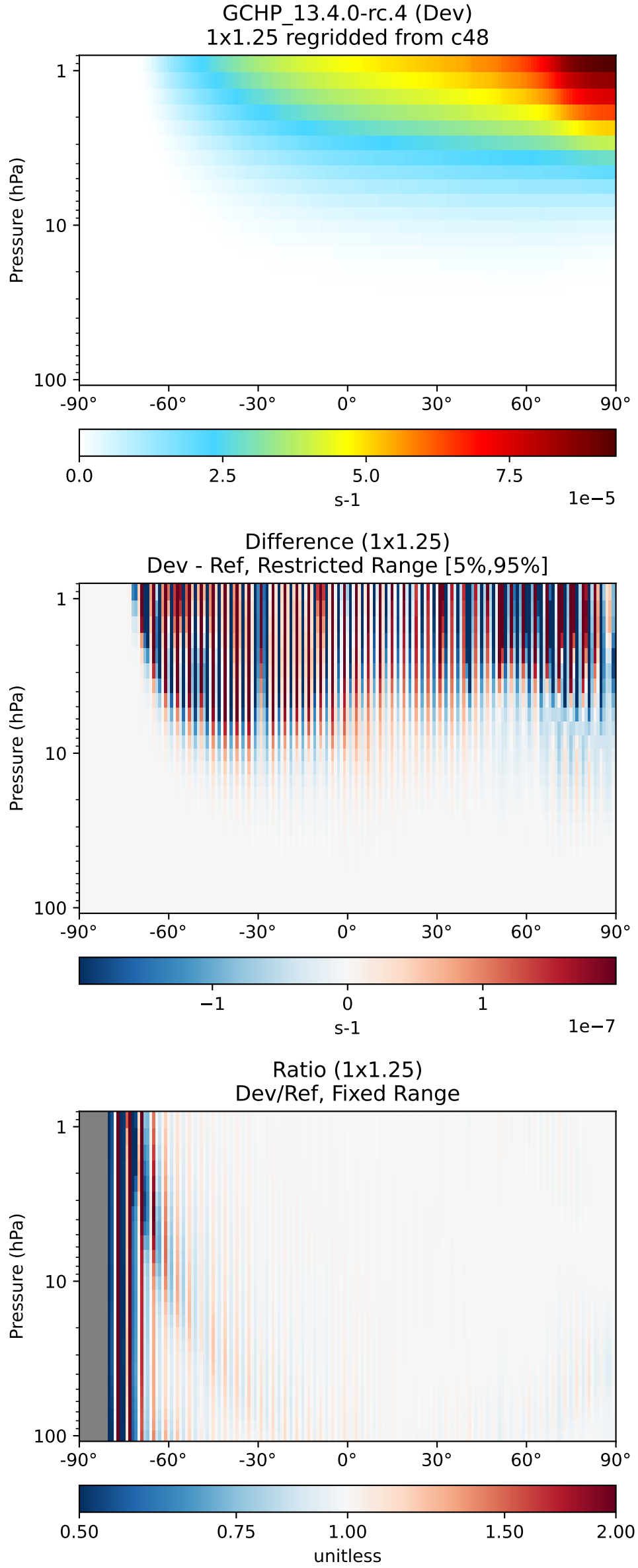
Jval_GLYX, Zonal Mean



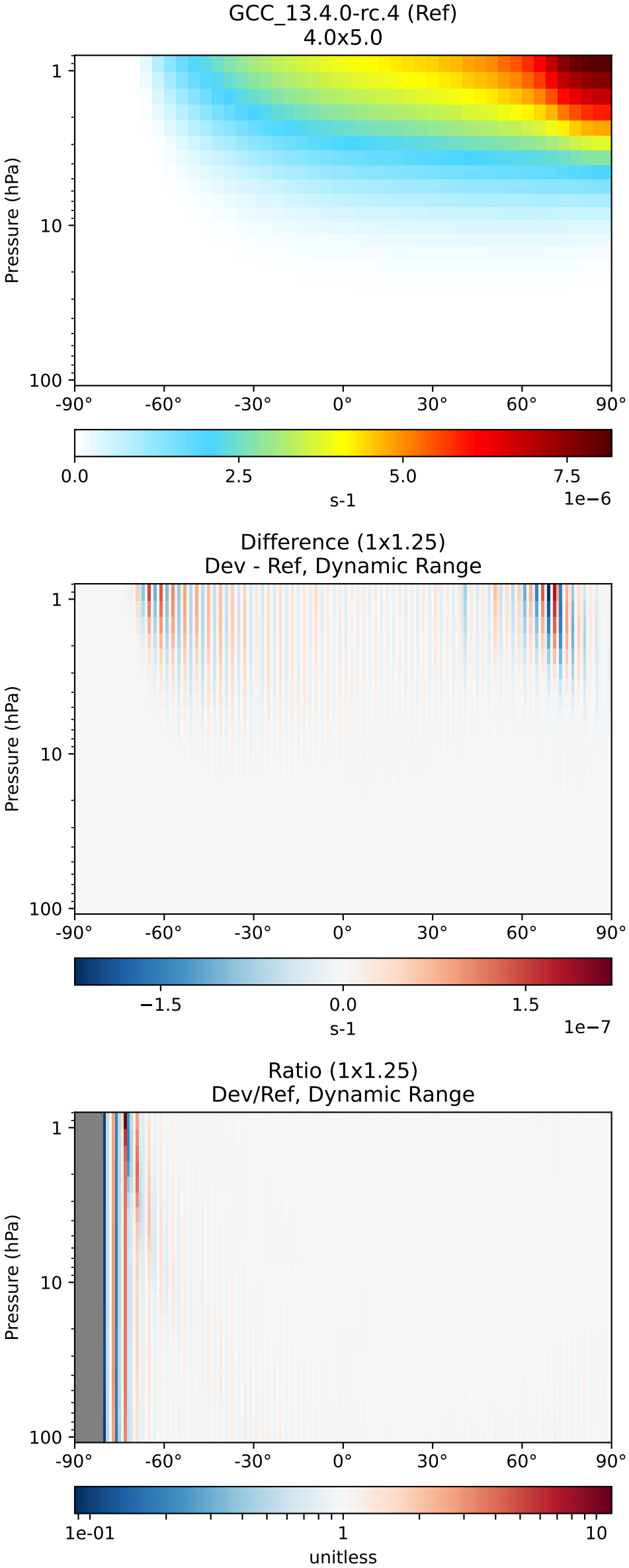


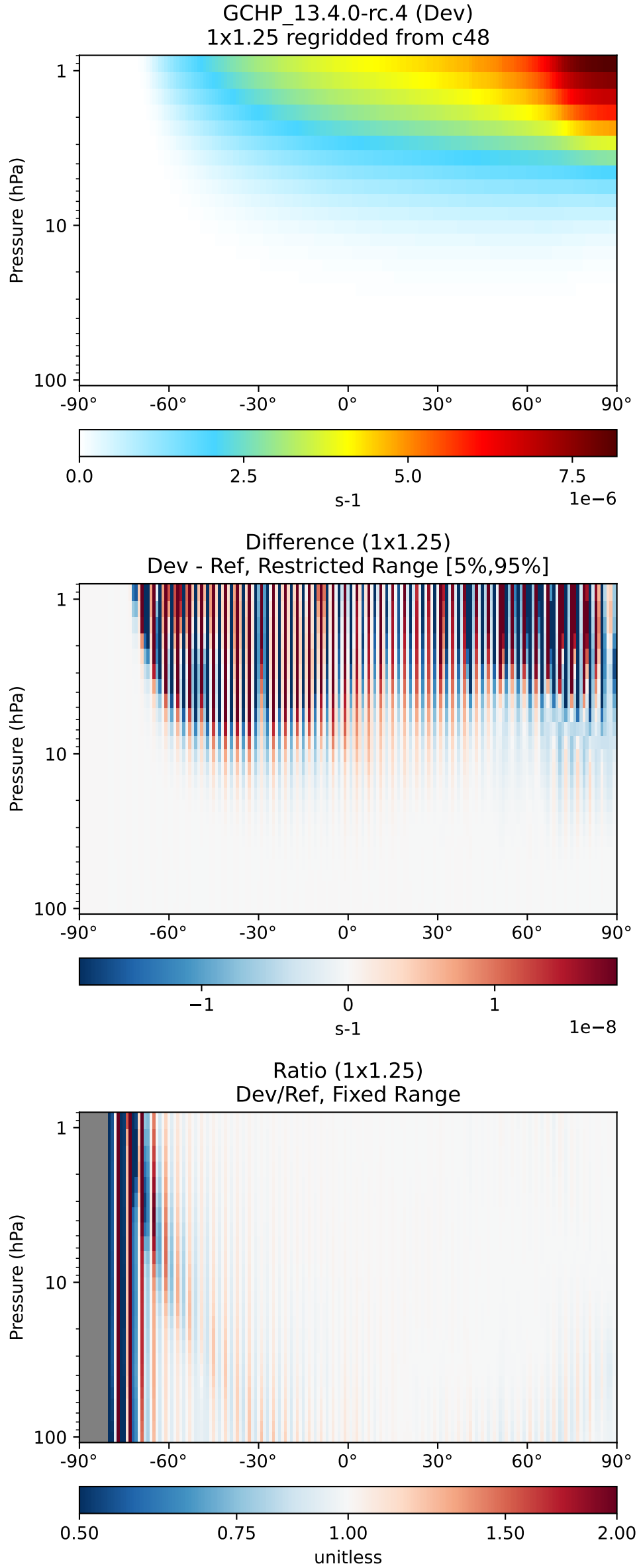
Jval_H1211, Zonal Mean



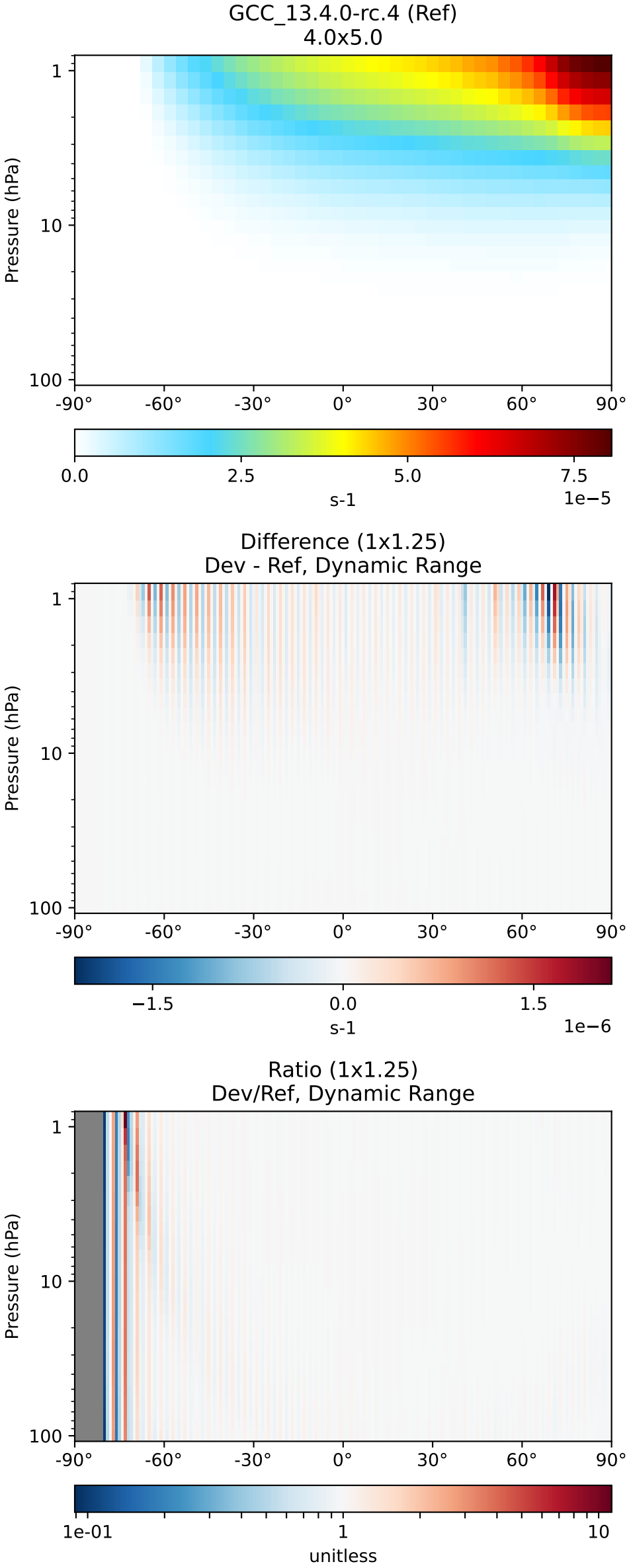


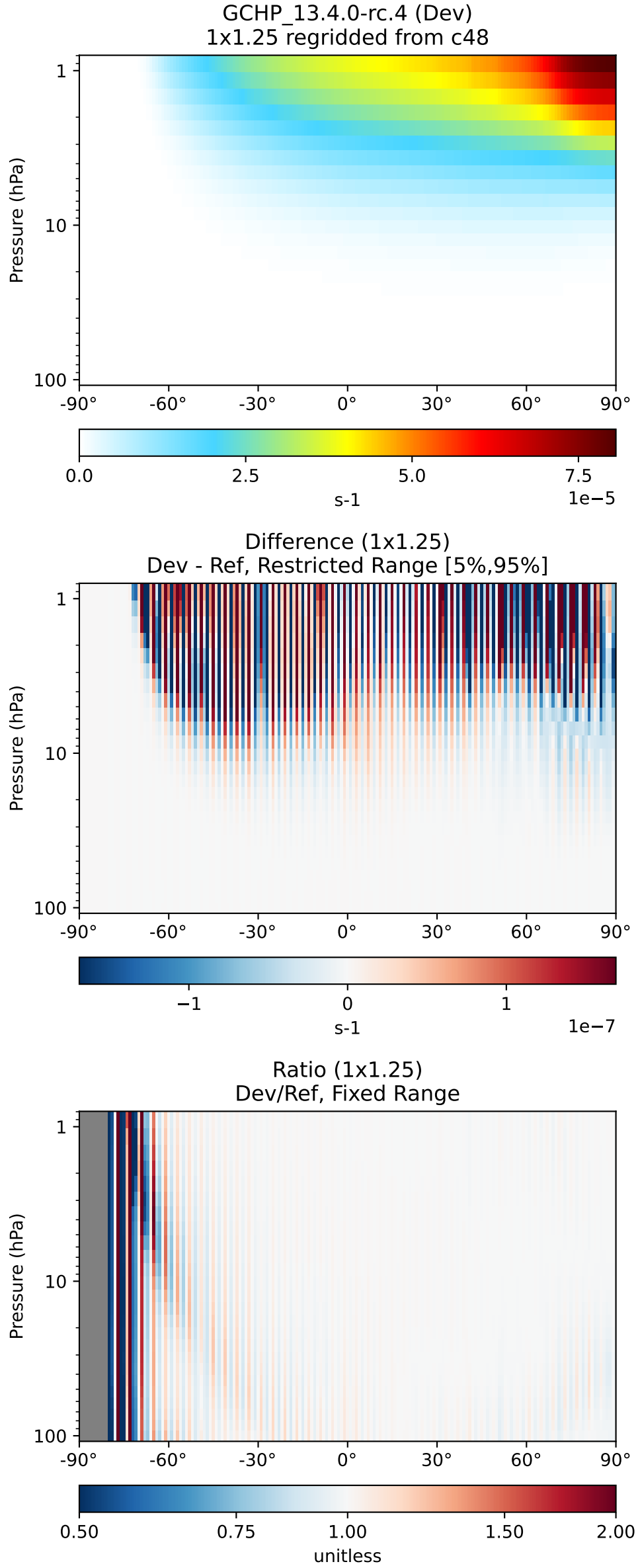
Jval_H1301, Zonal Mean



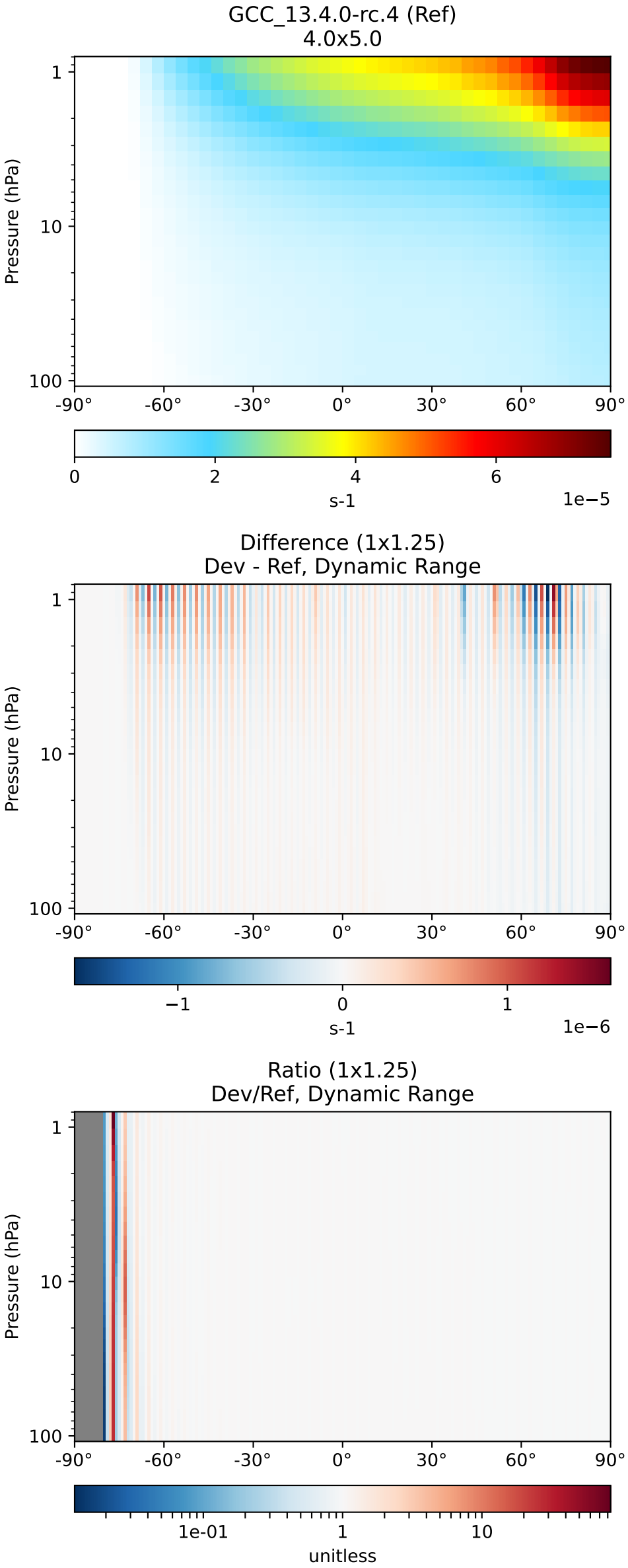


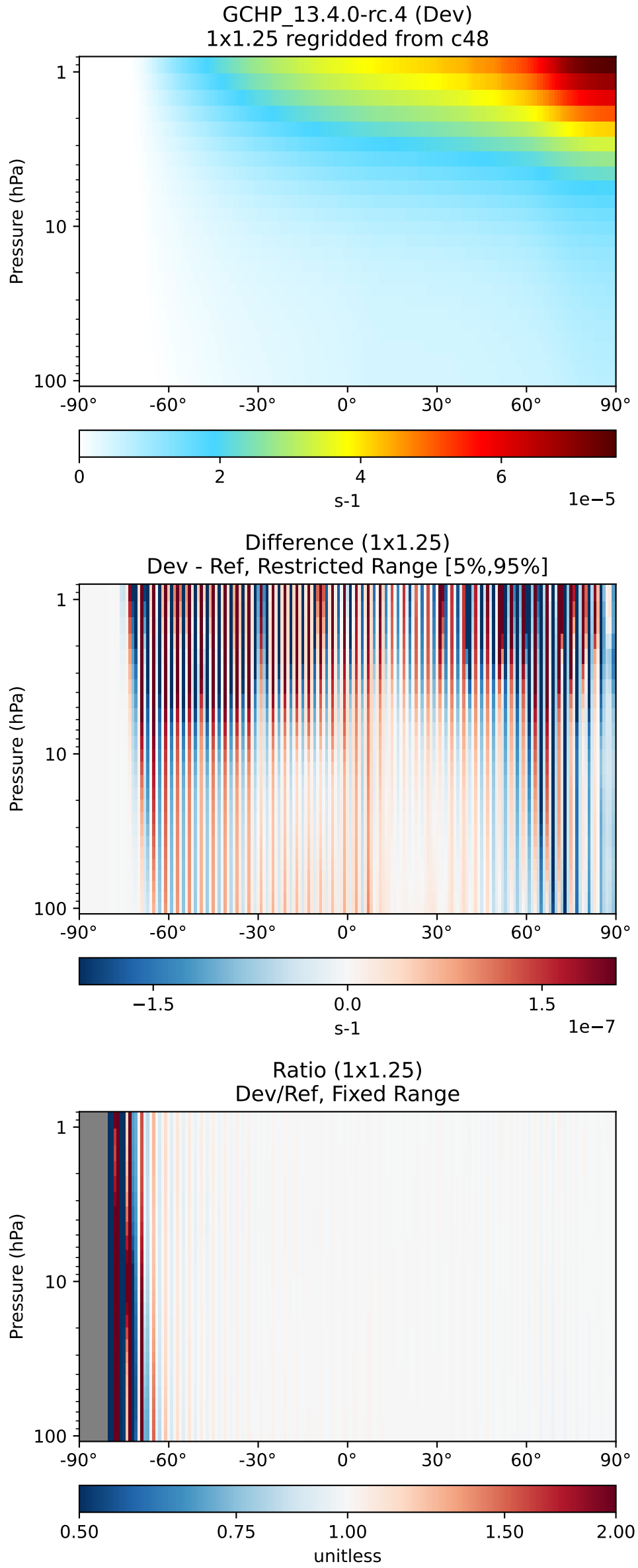
Jval_H2402, Zonal Mean



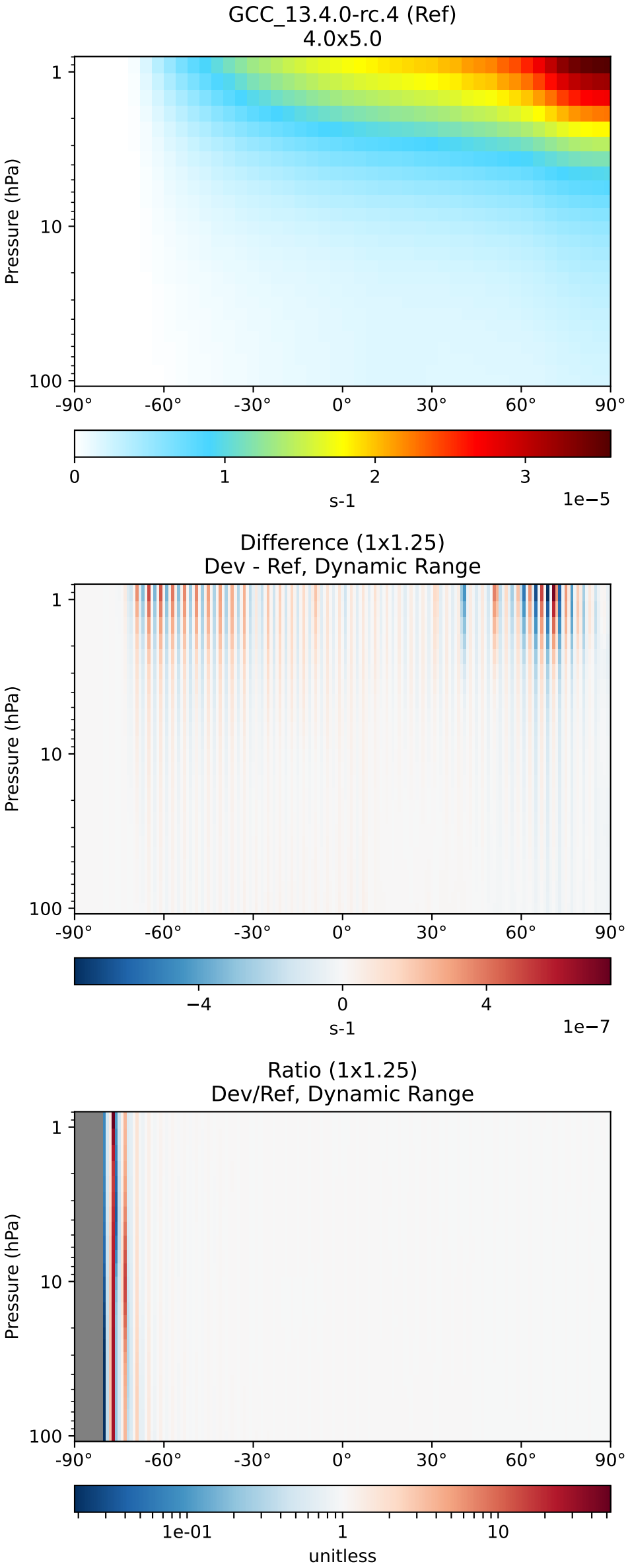


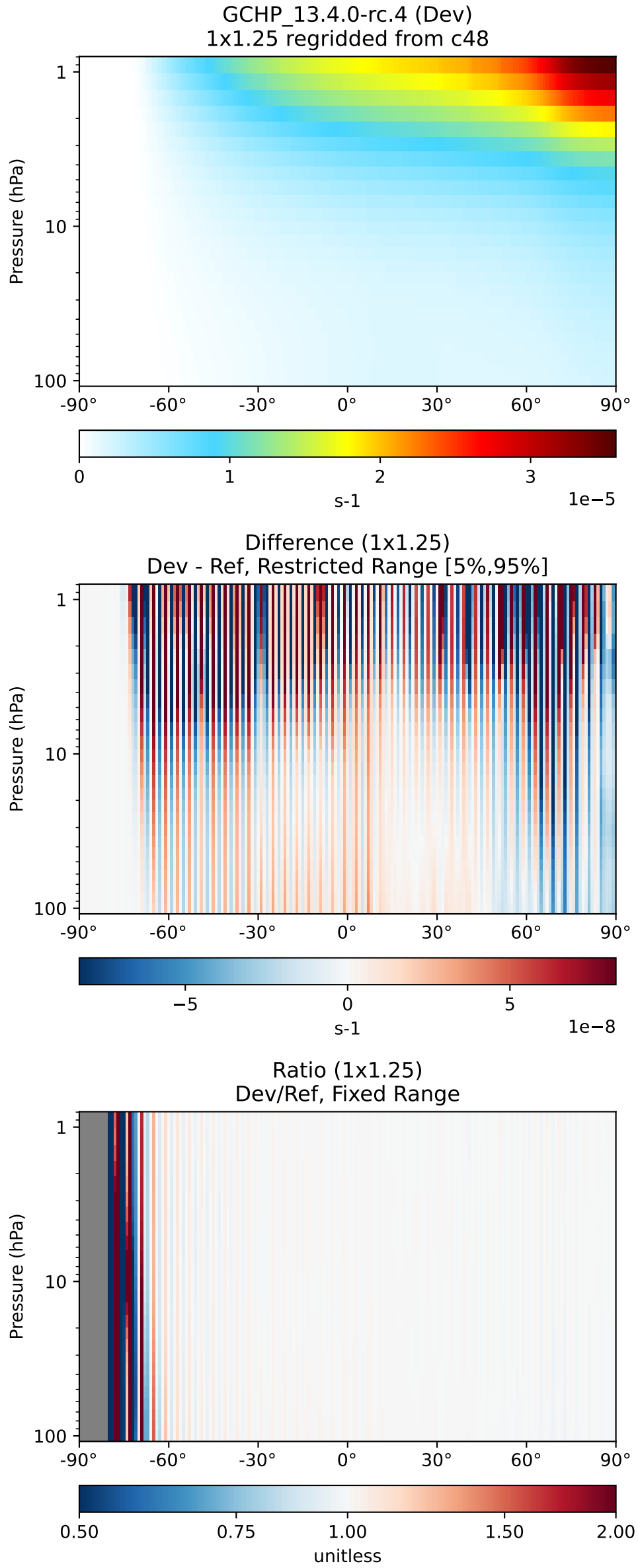
Jval_H2O2, Zonal Mean



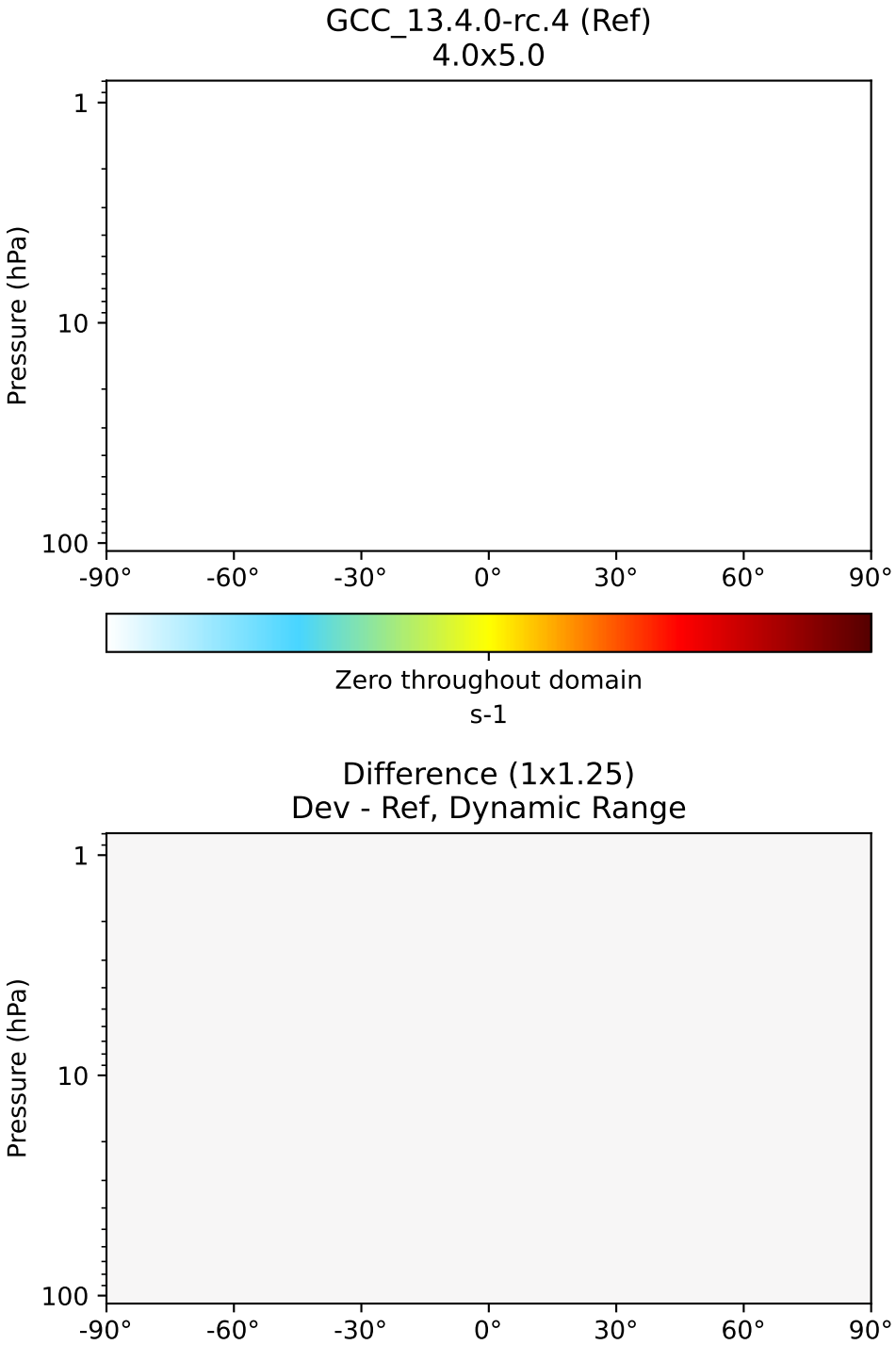


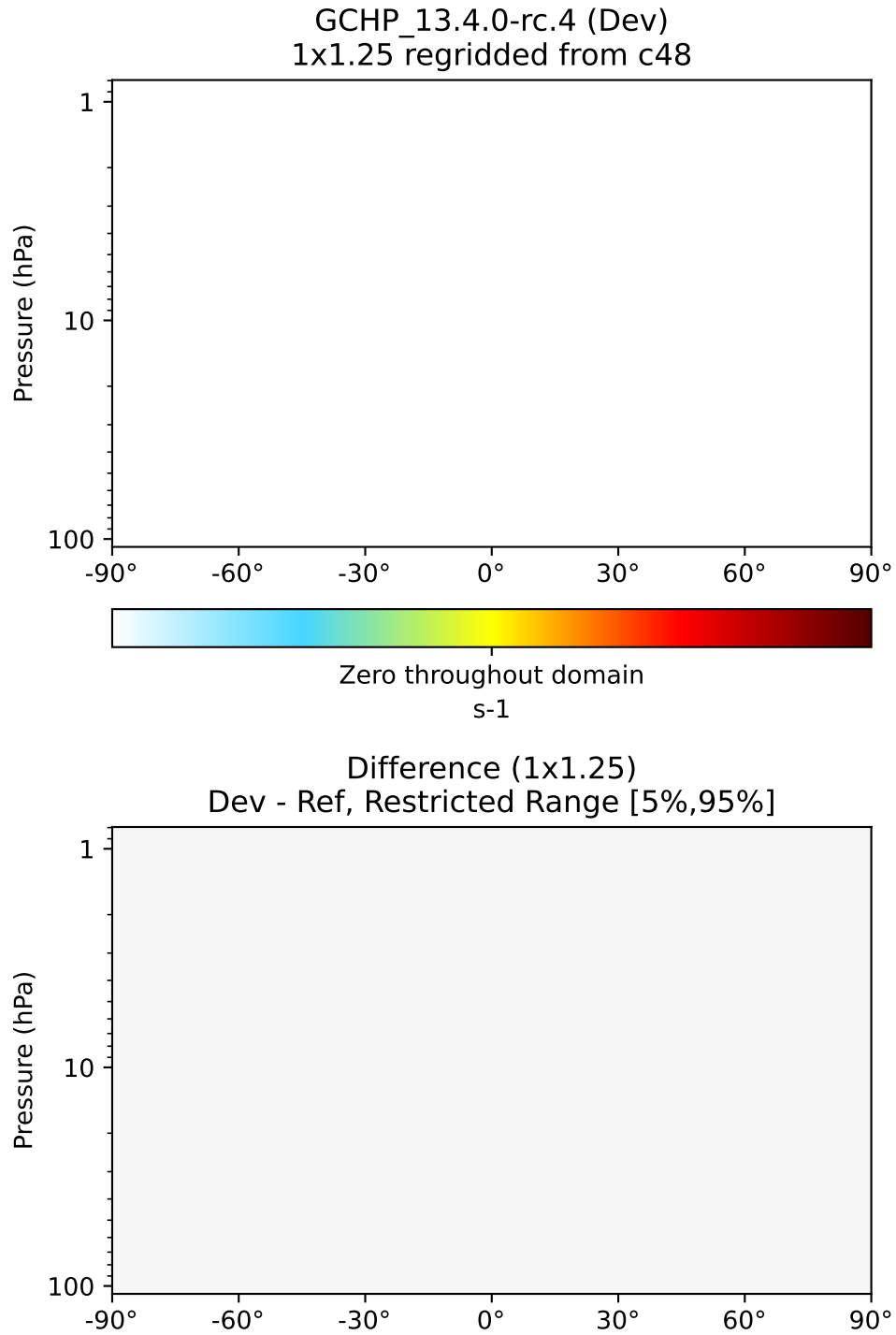
Jval_HAC, Zonal Mean

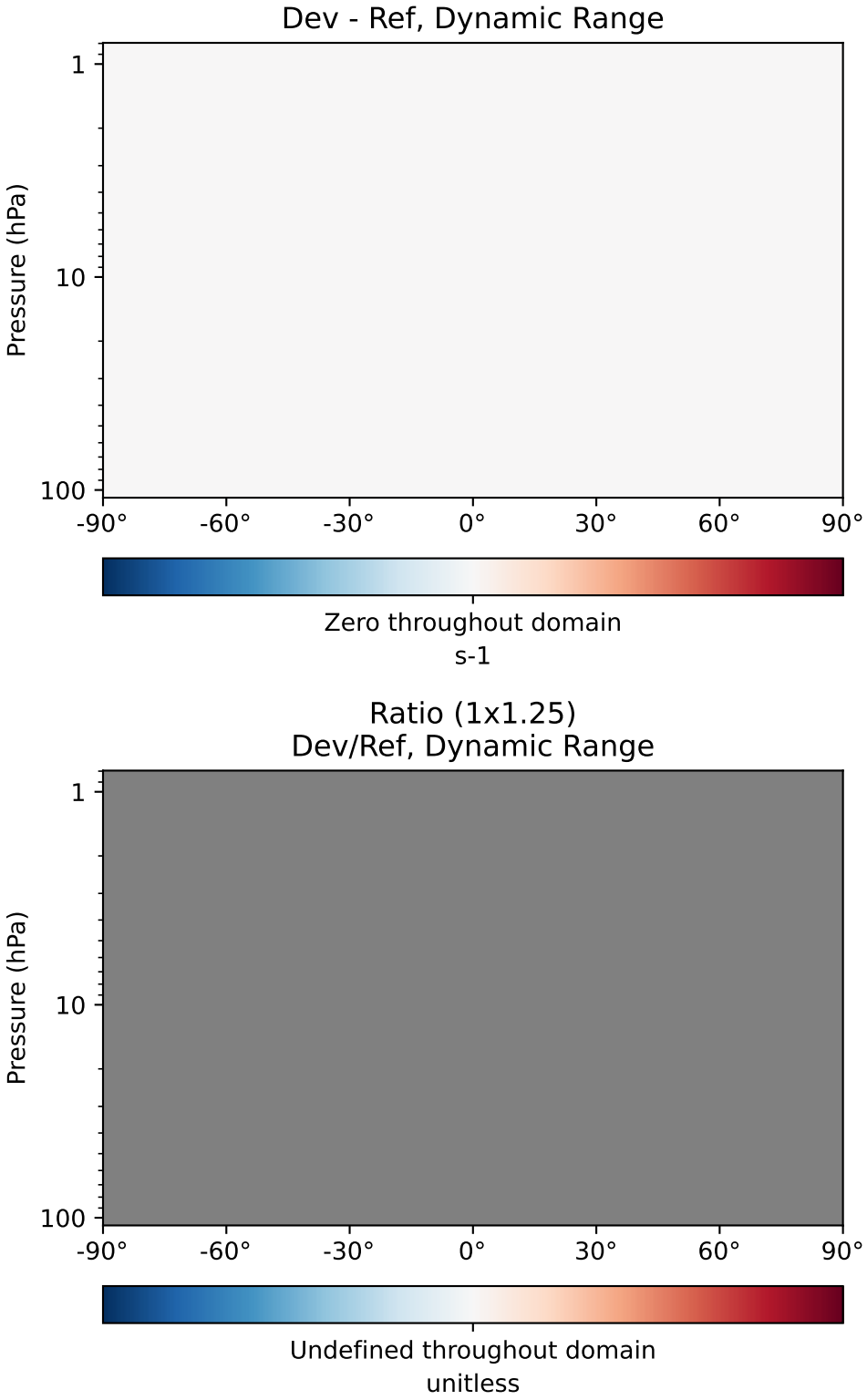


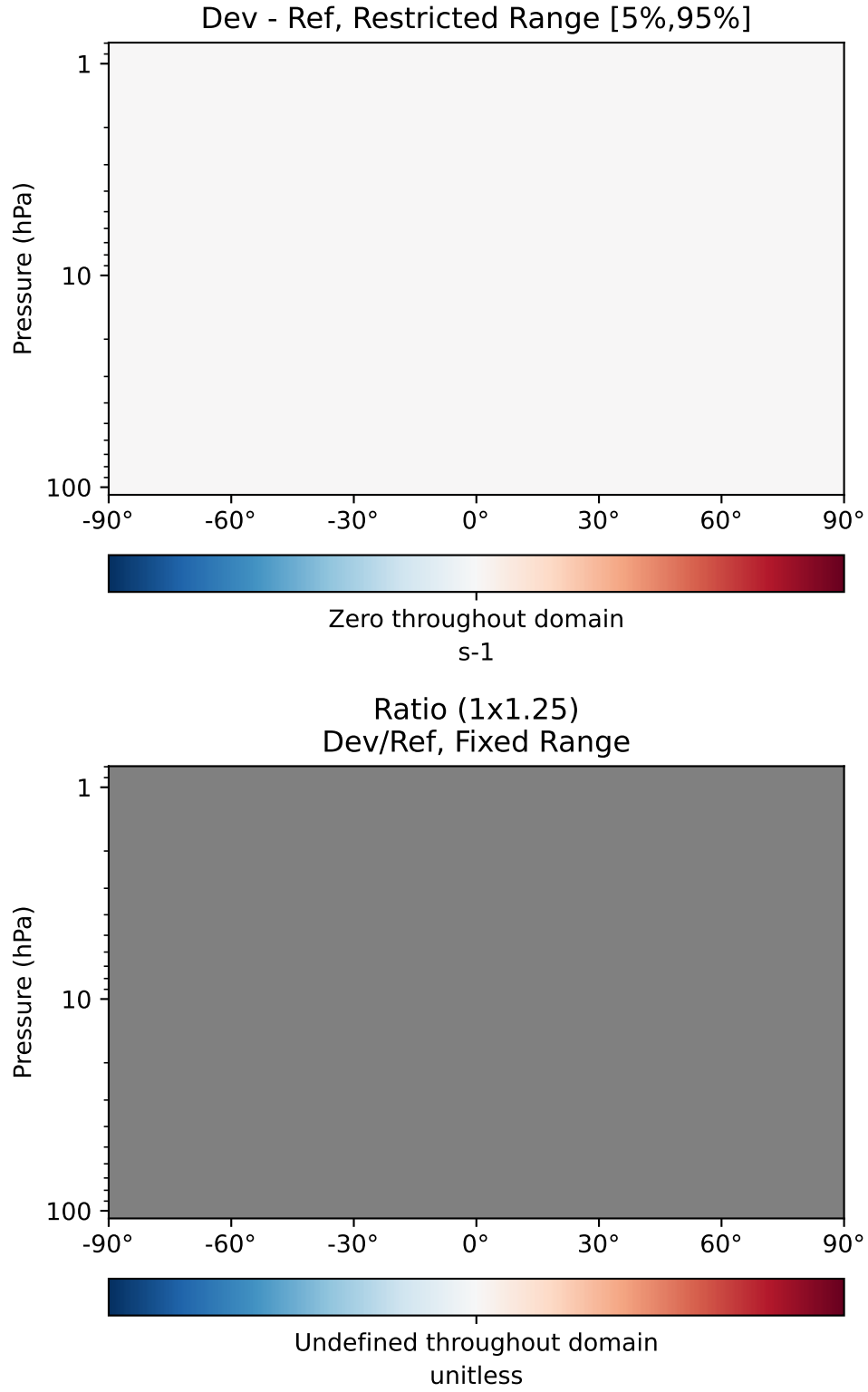


Jval_HC5A, Zonal Mean

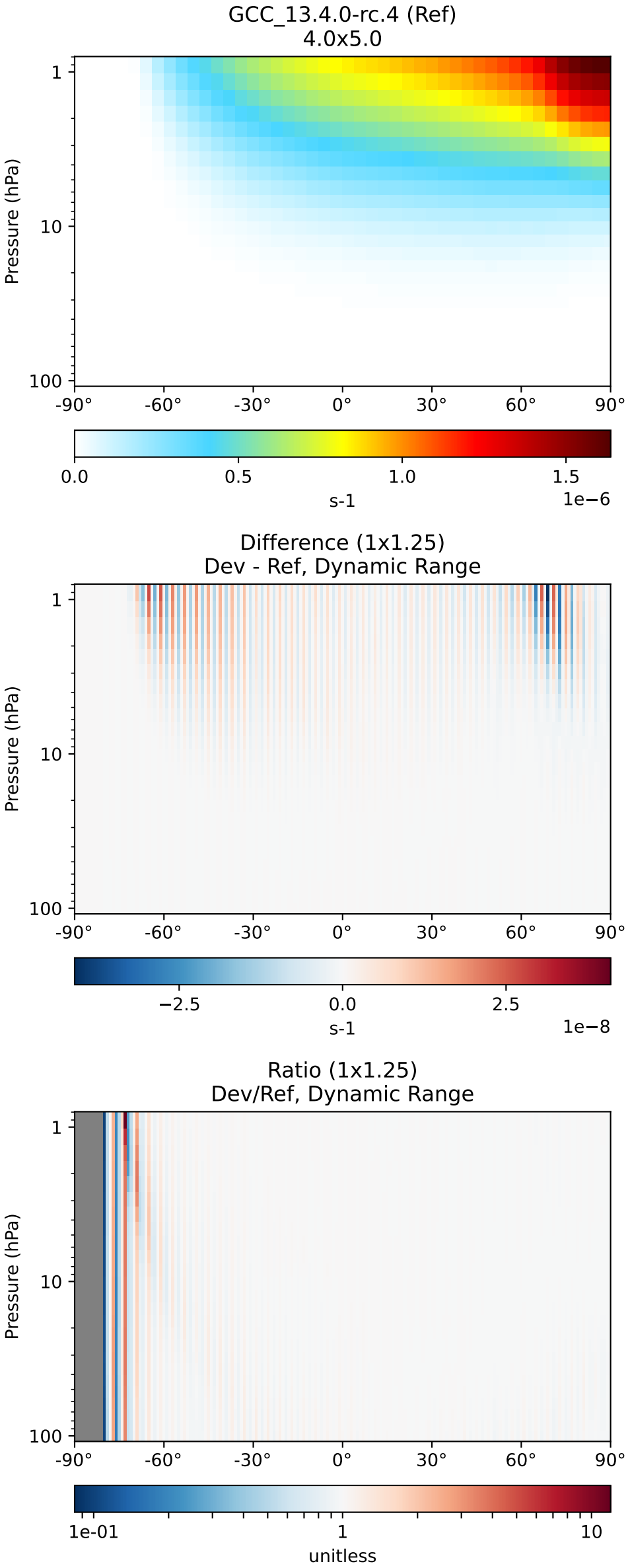


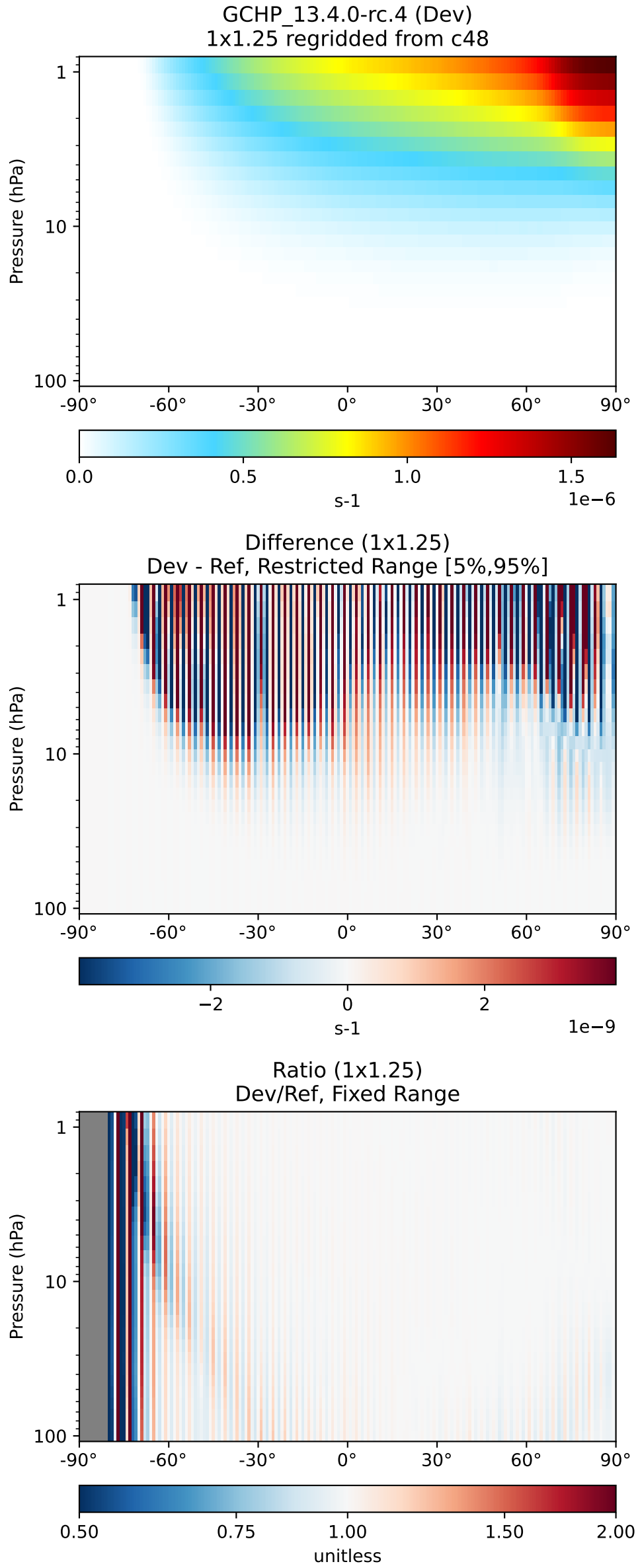




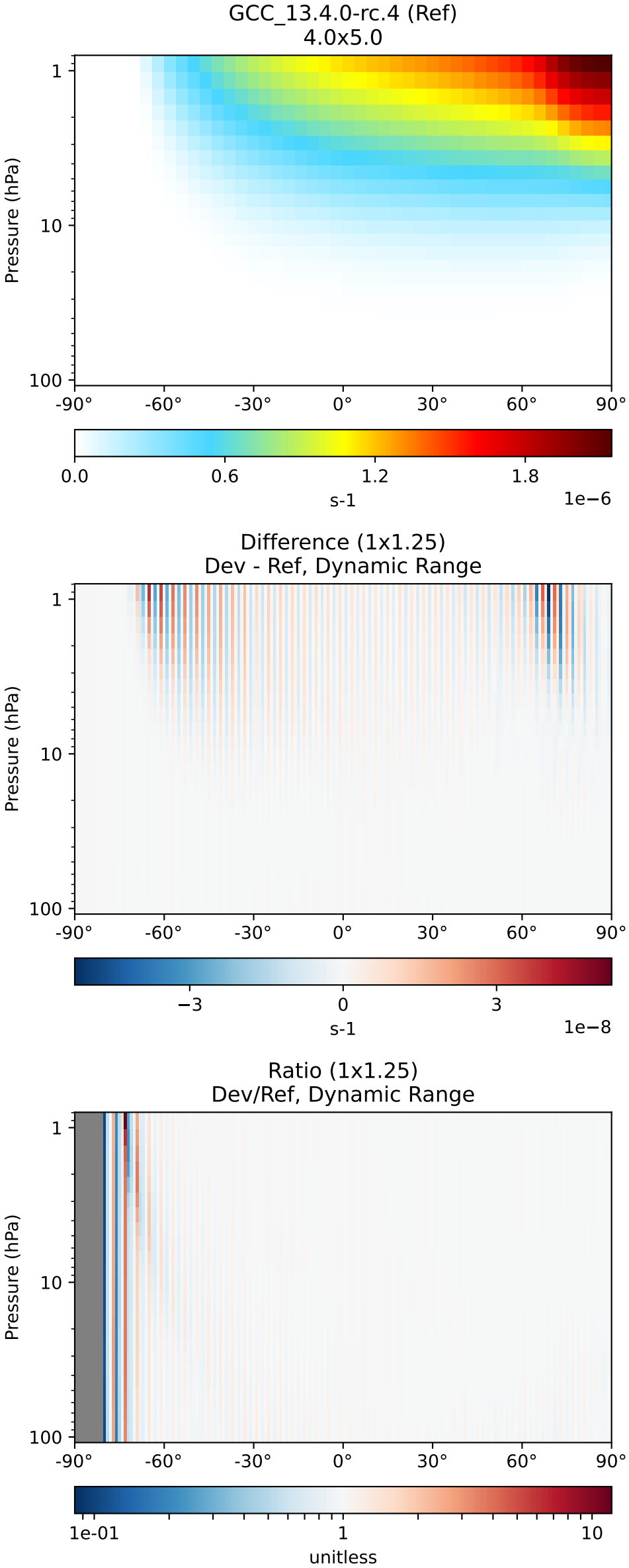


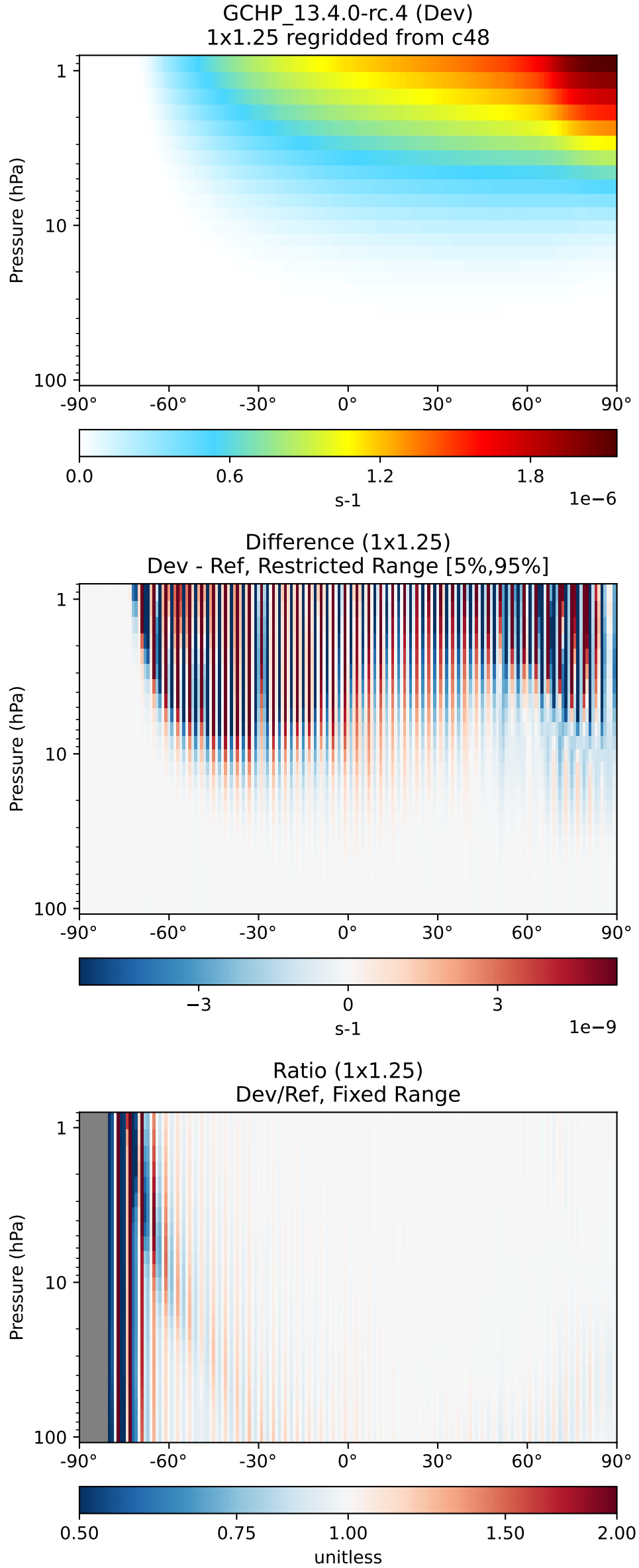
Jval_HCFC123, Zonal Mean



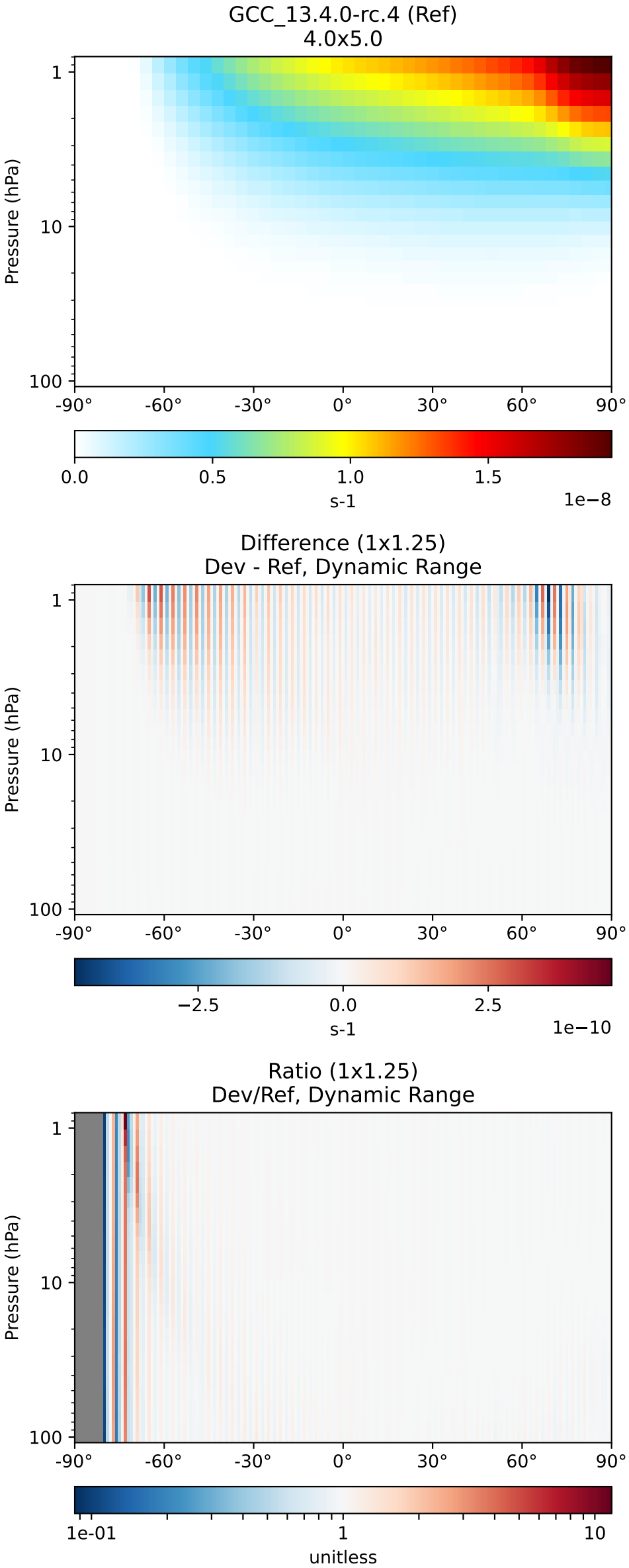


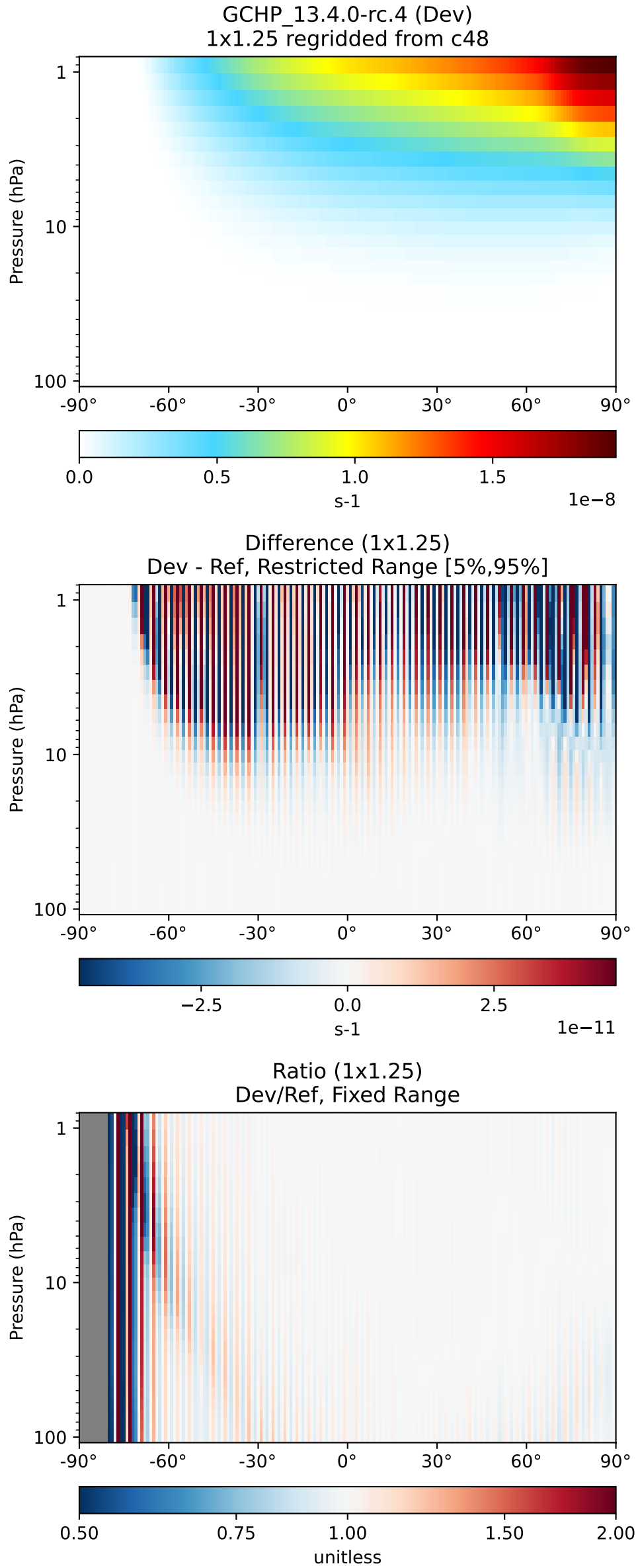
Jval_HCFC141b, Zonal Mean



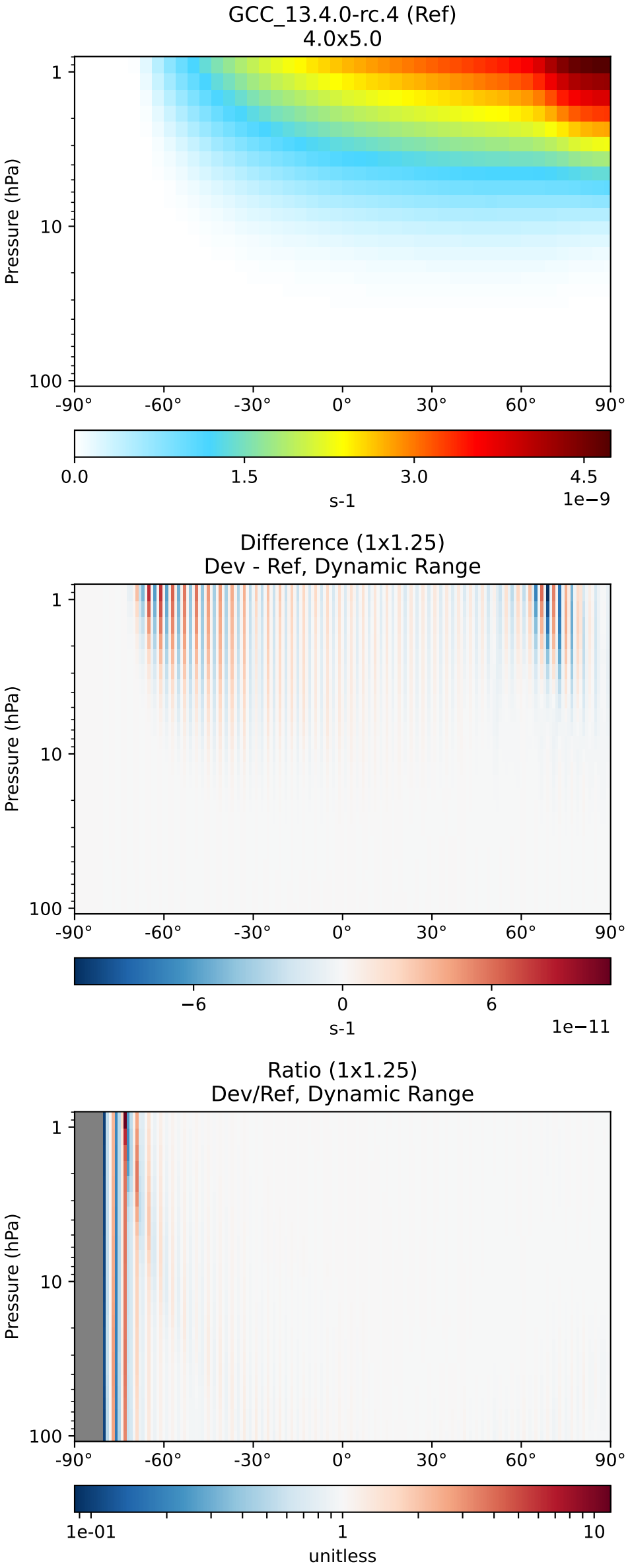


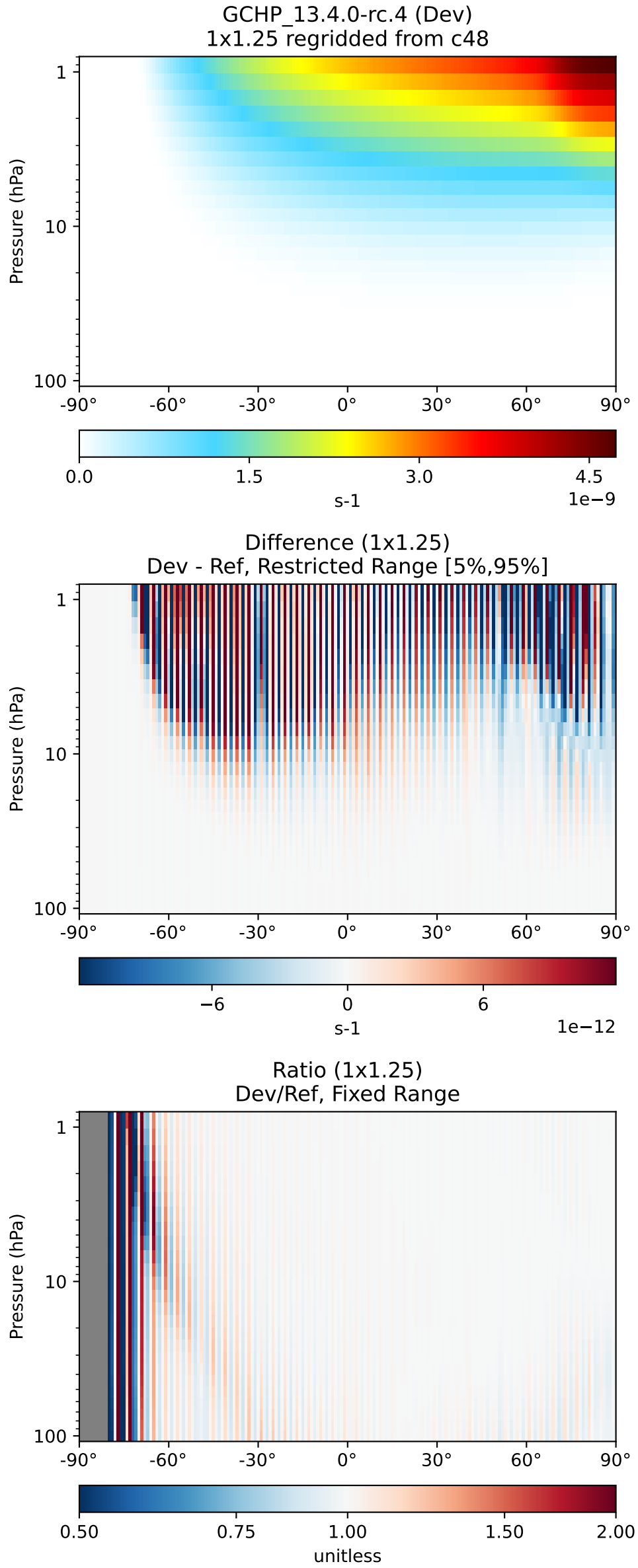
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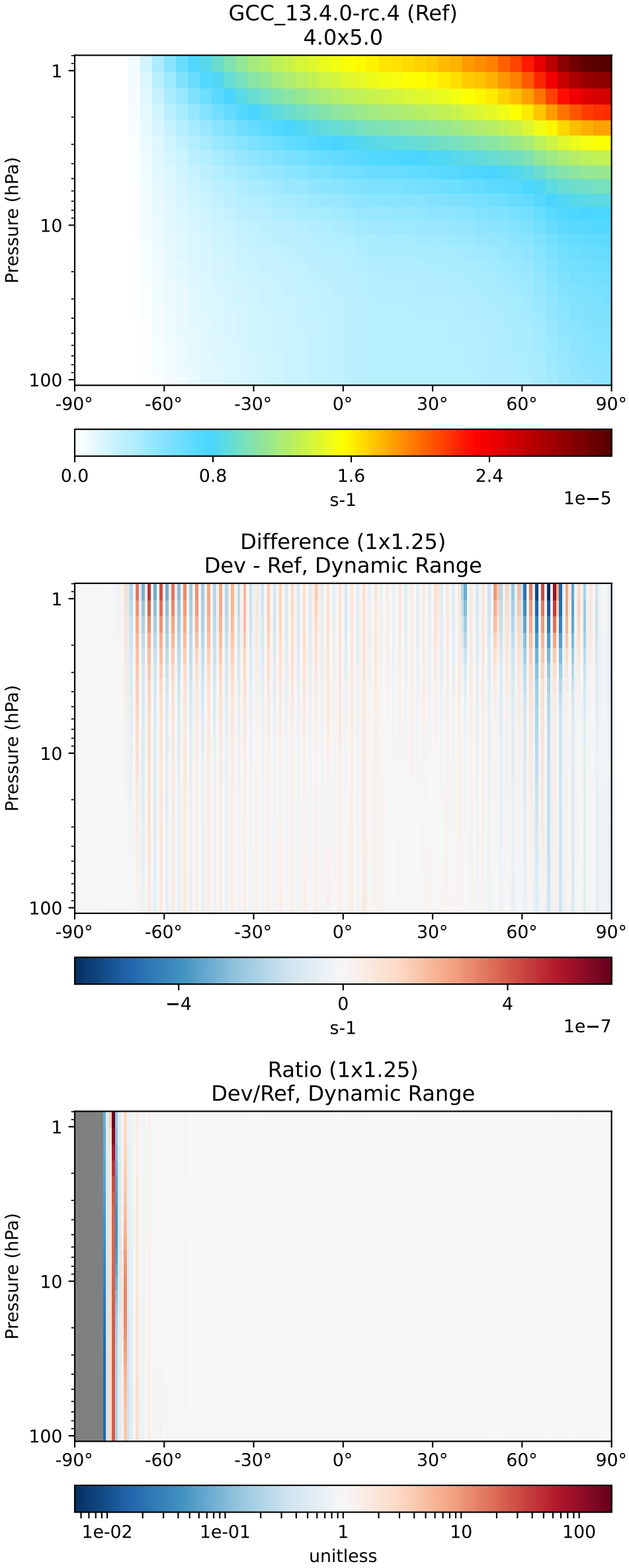


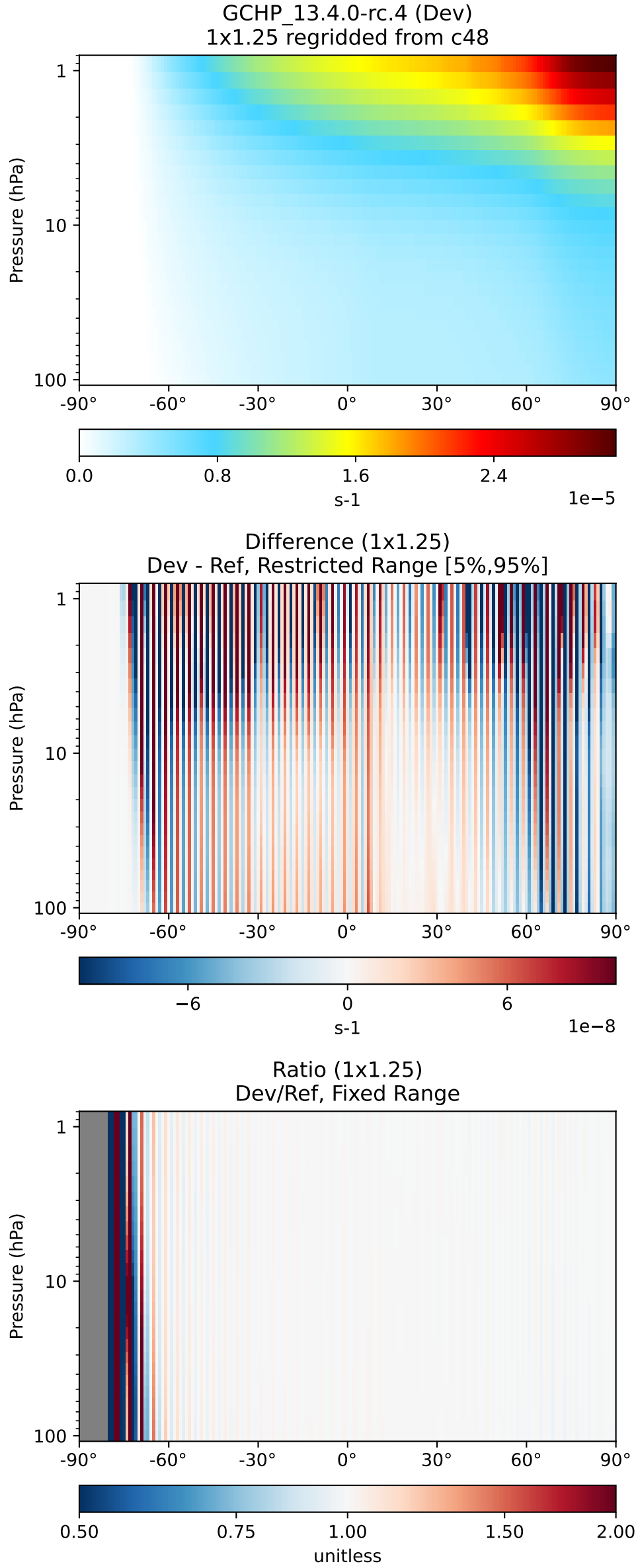
Jval_HCFC22, Zonal Mean



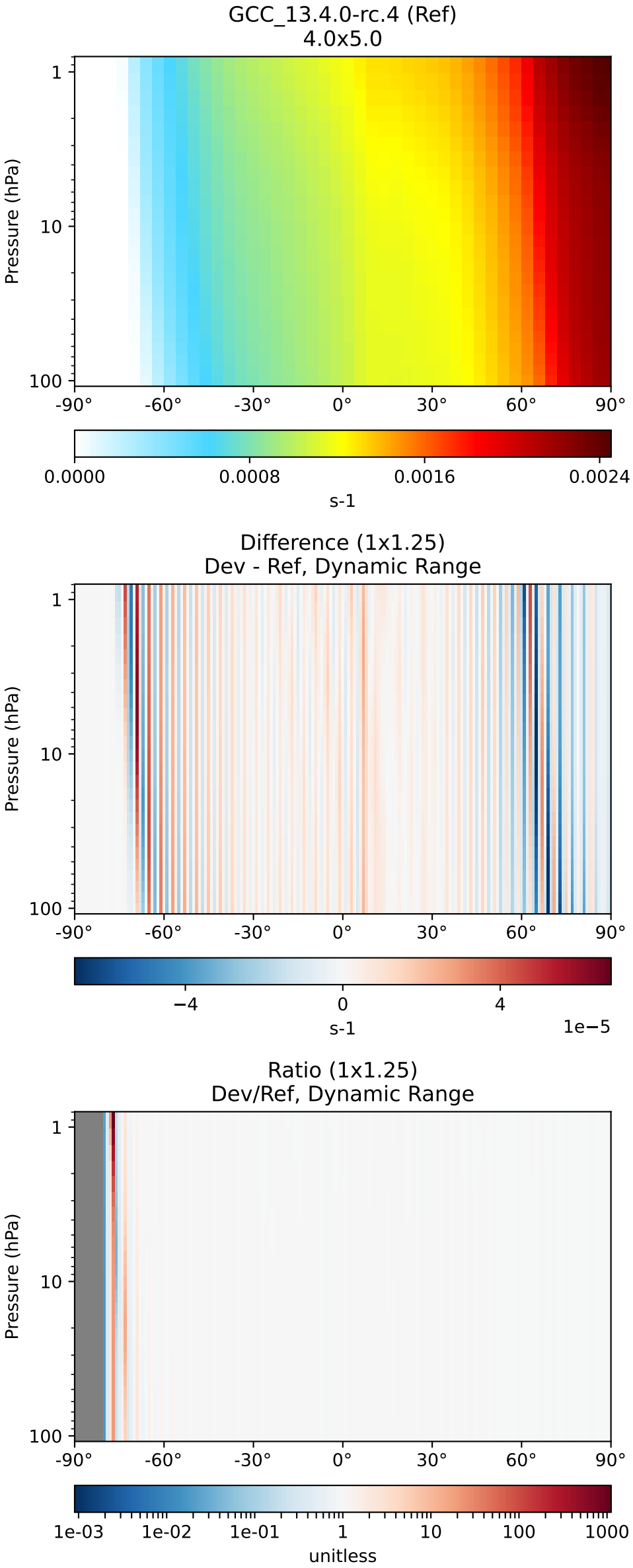


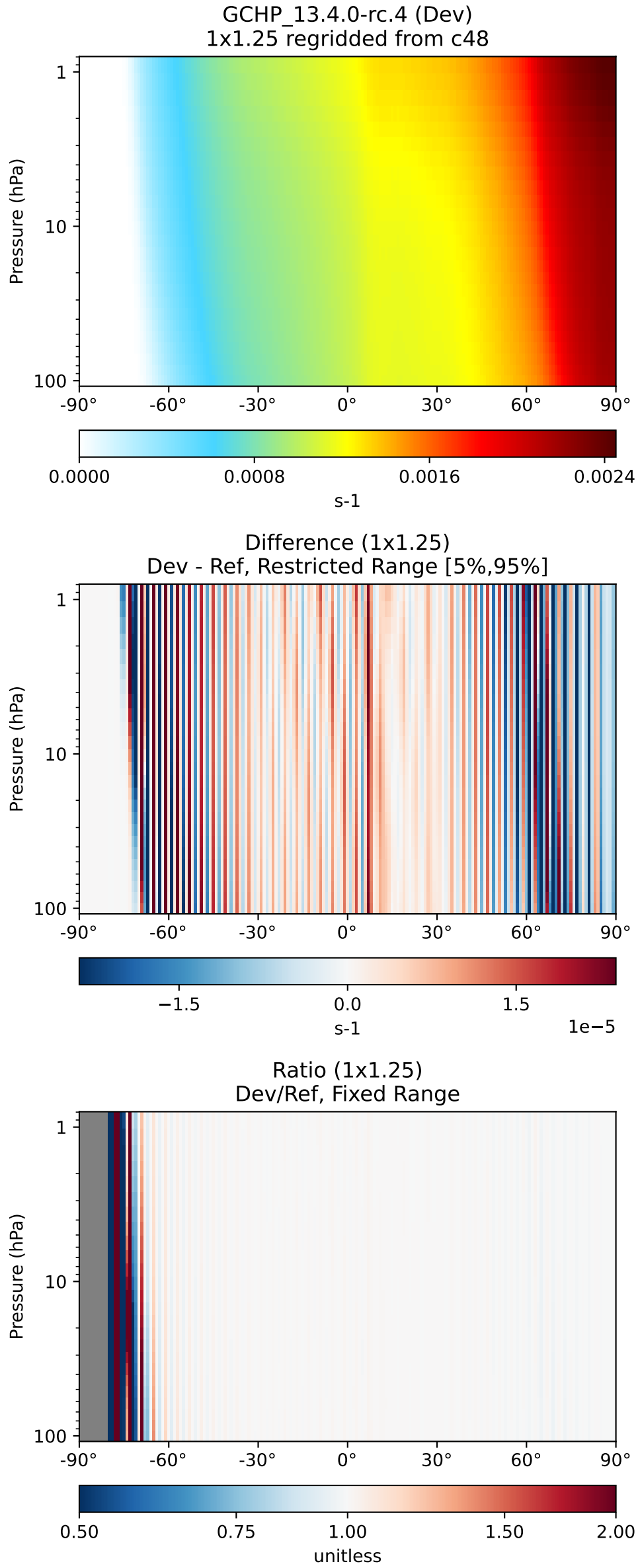
Jval_HMHP, Zonal Mean



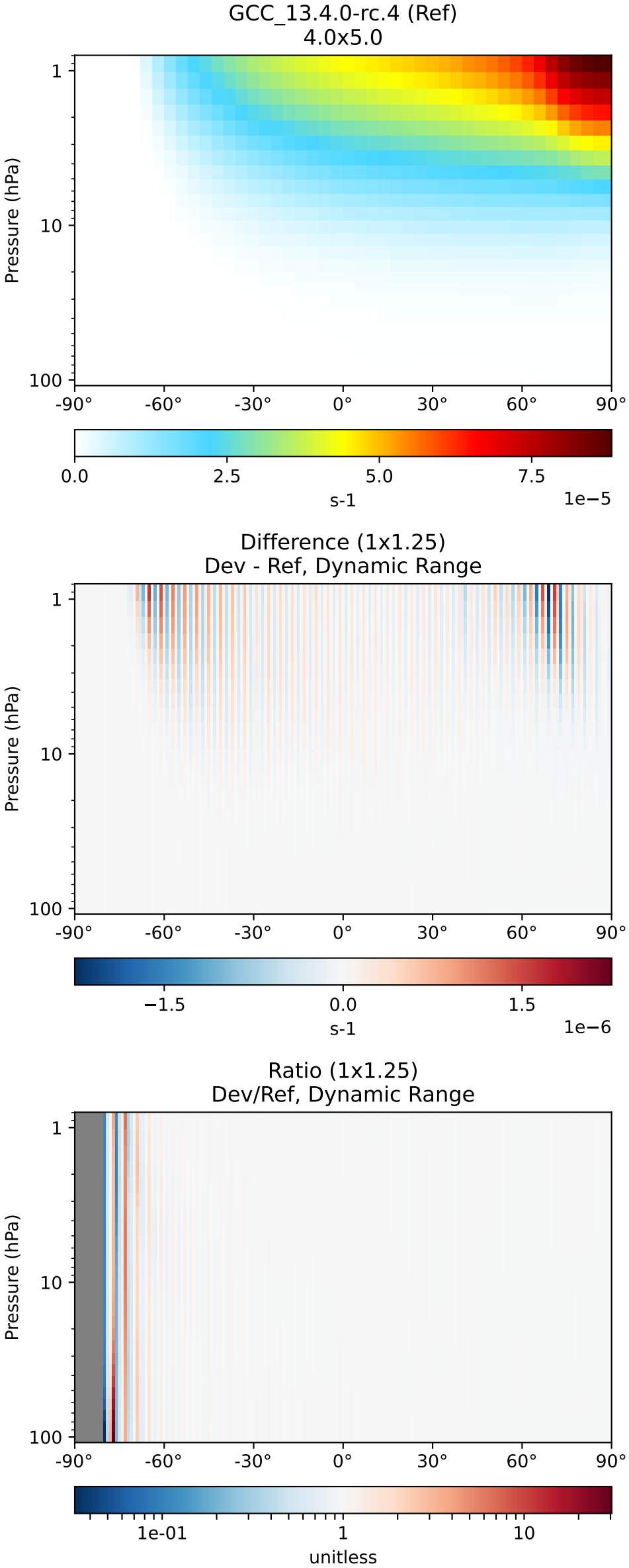


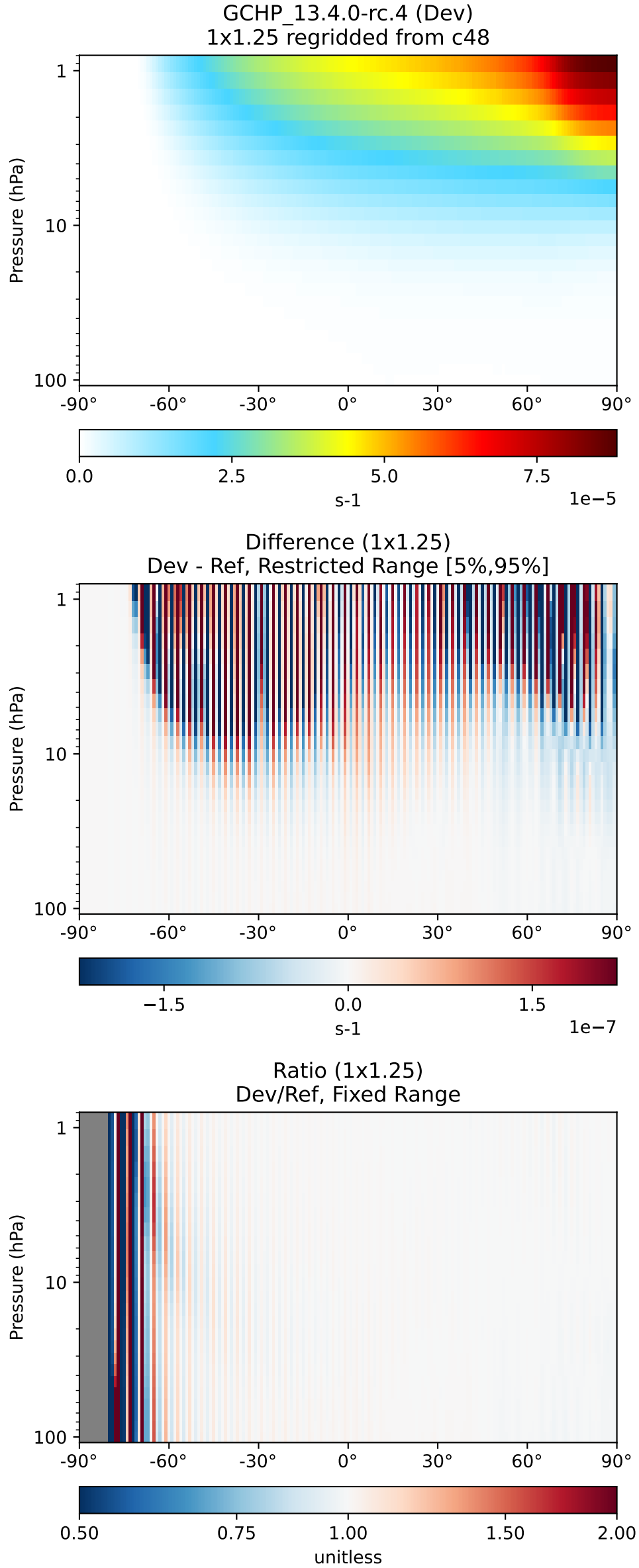
Jval_HNO2, Zonal Mean



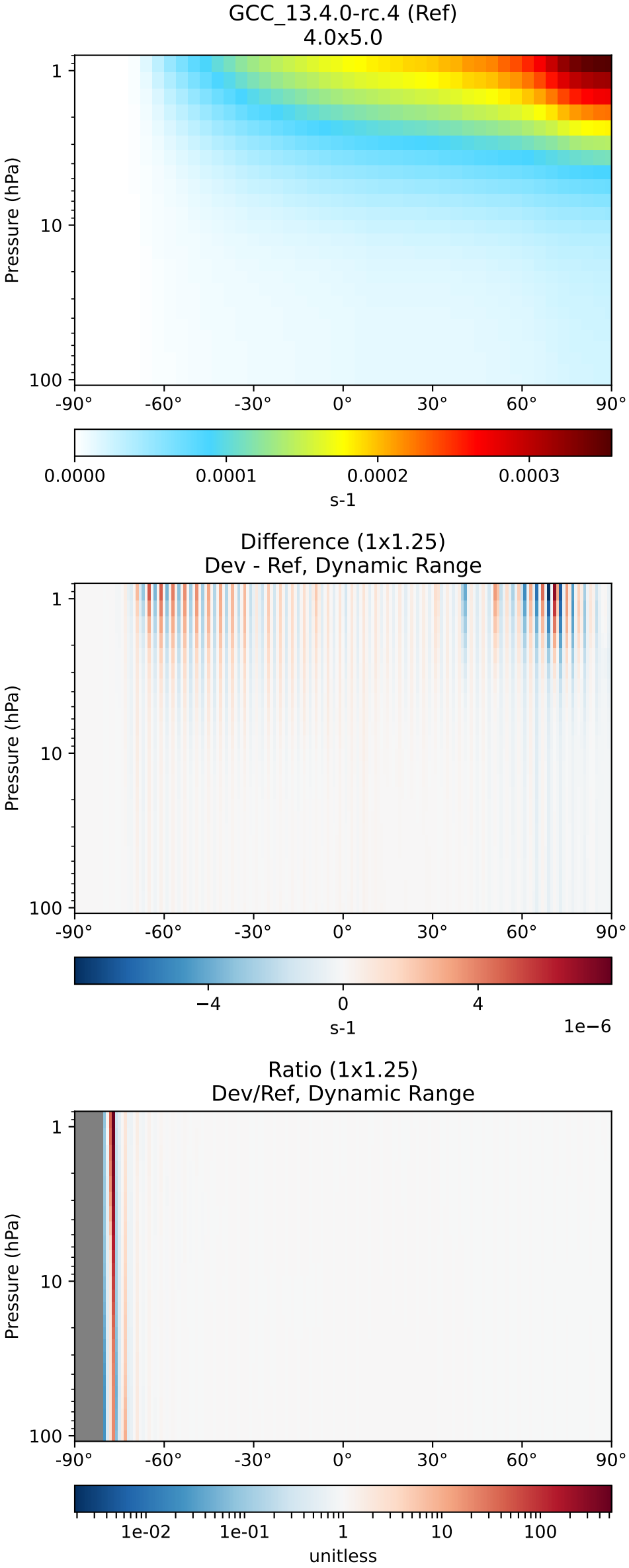


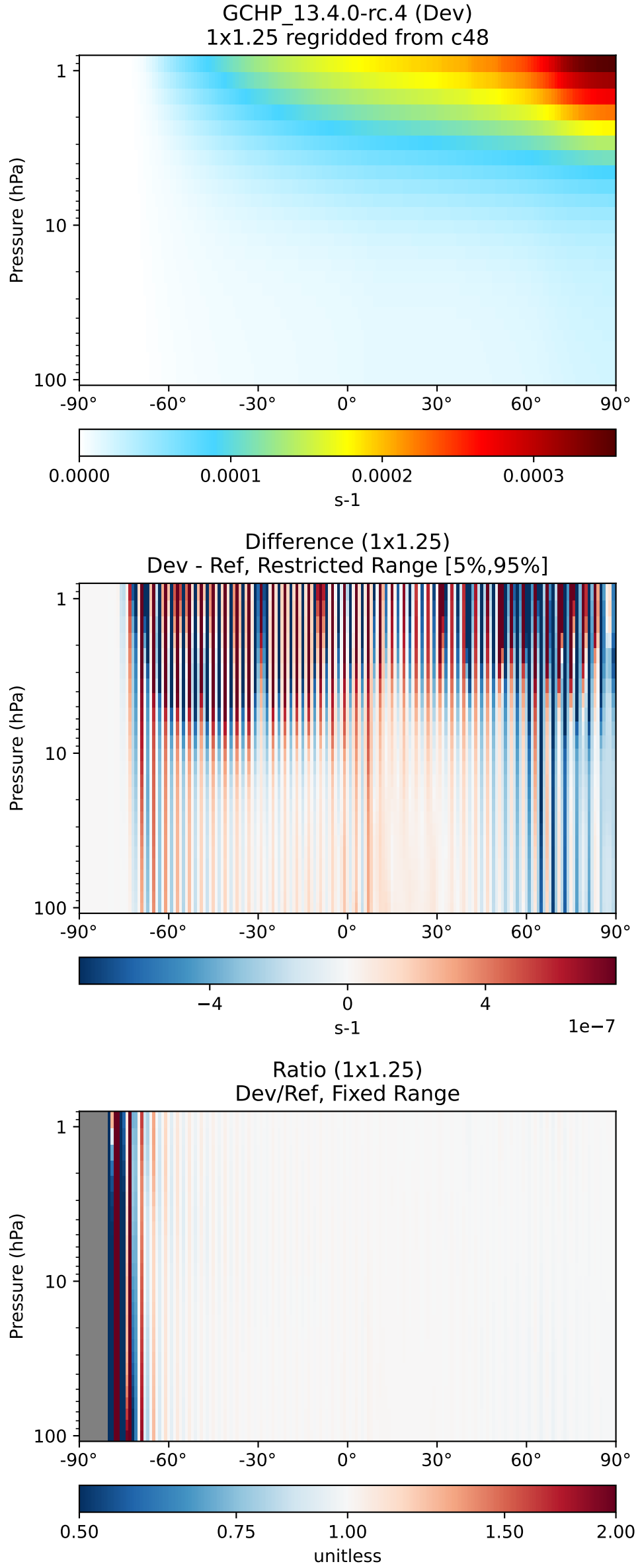
Jval_HNO3, Zonal Mean



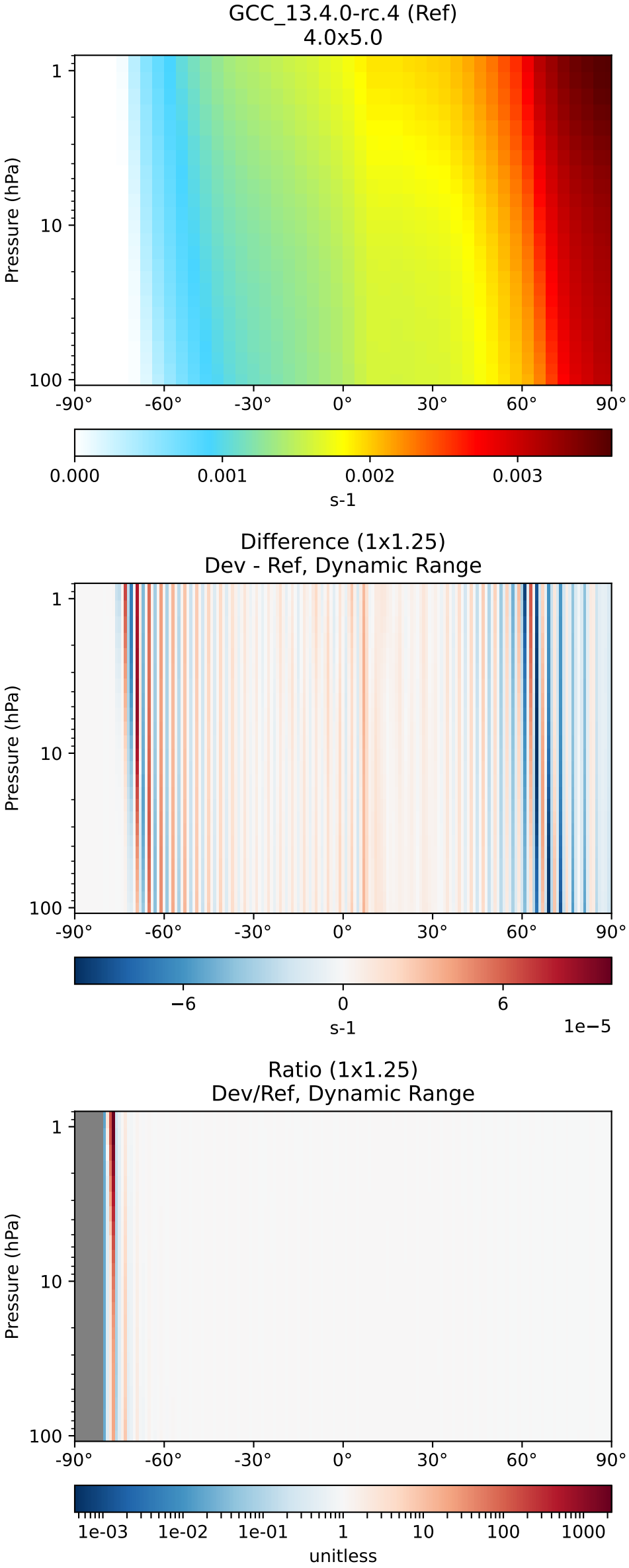


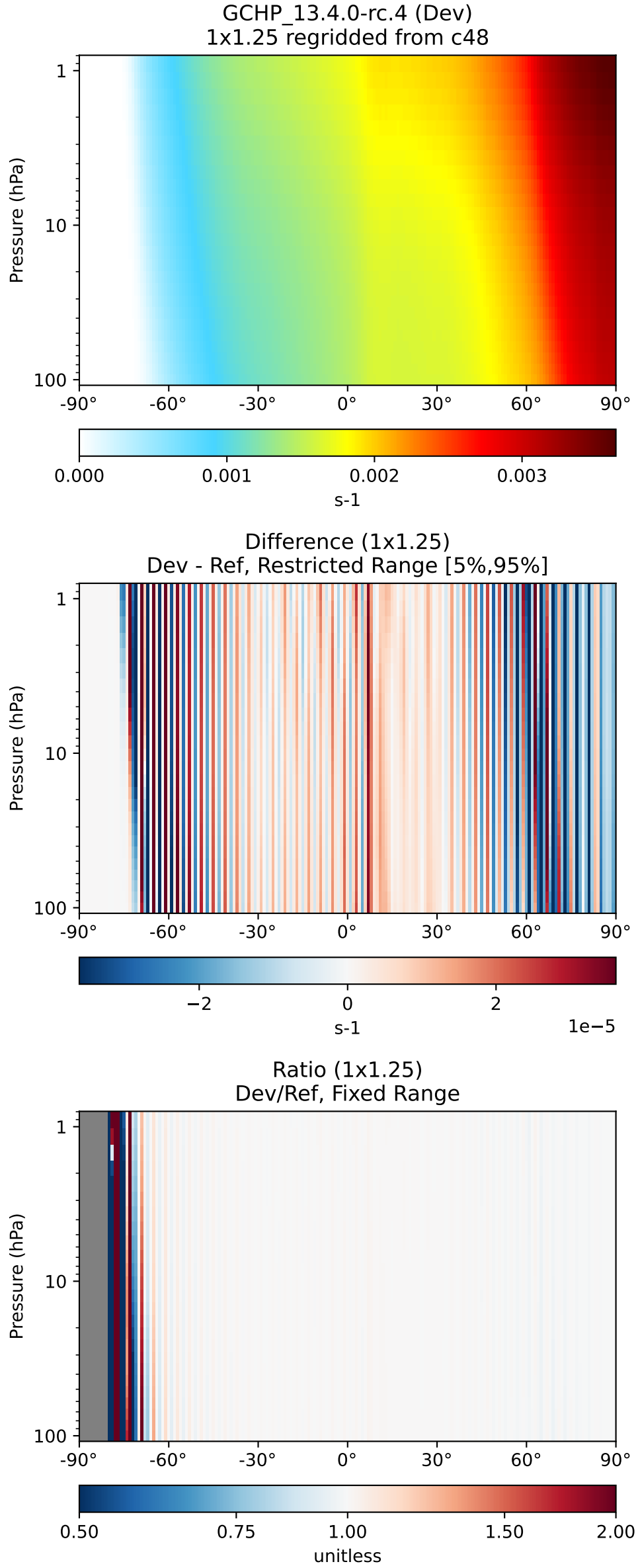
Jval_HNO4, Zonal Mean



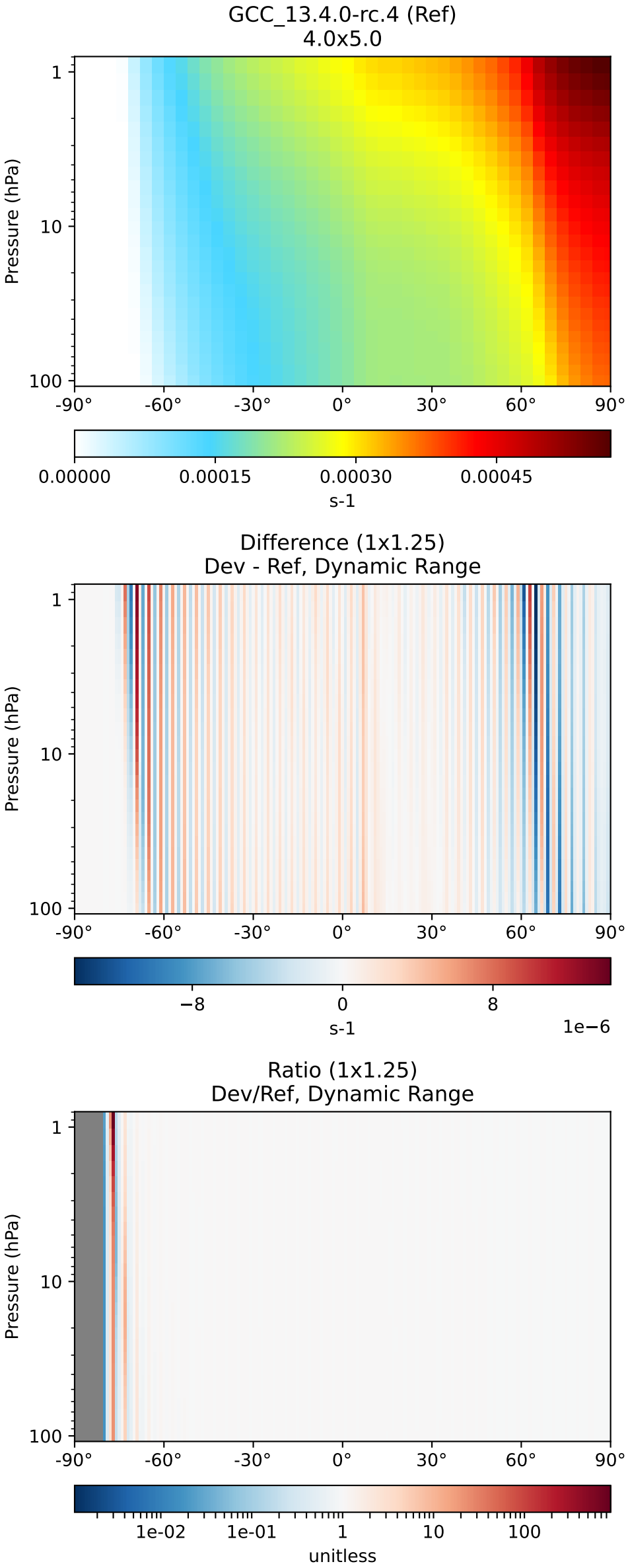


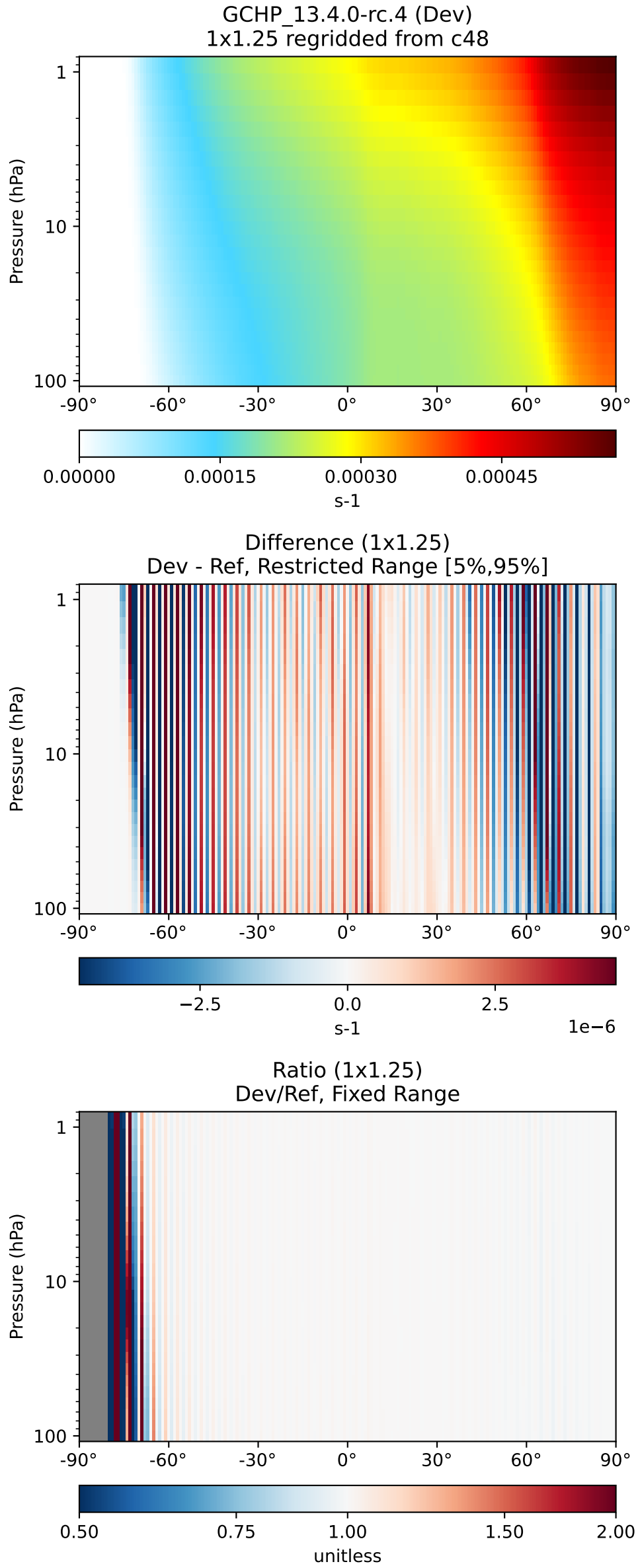
Jval_HOBr, Zonal Mean



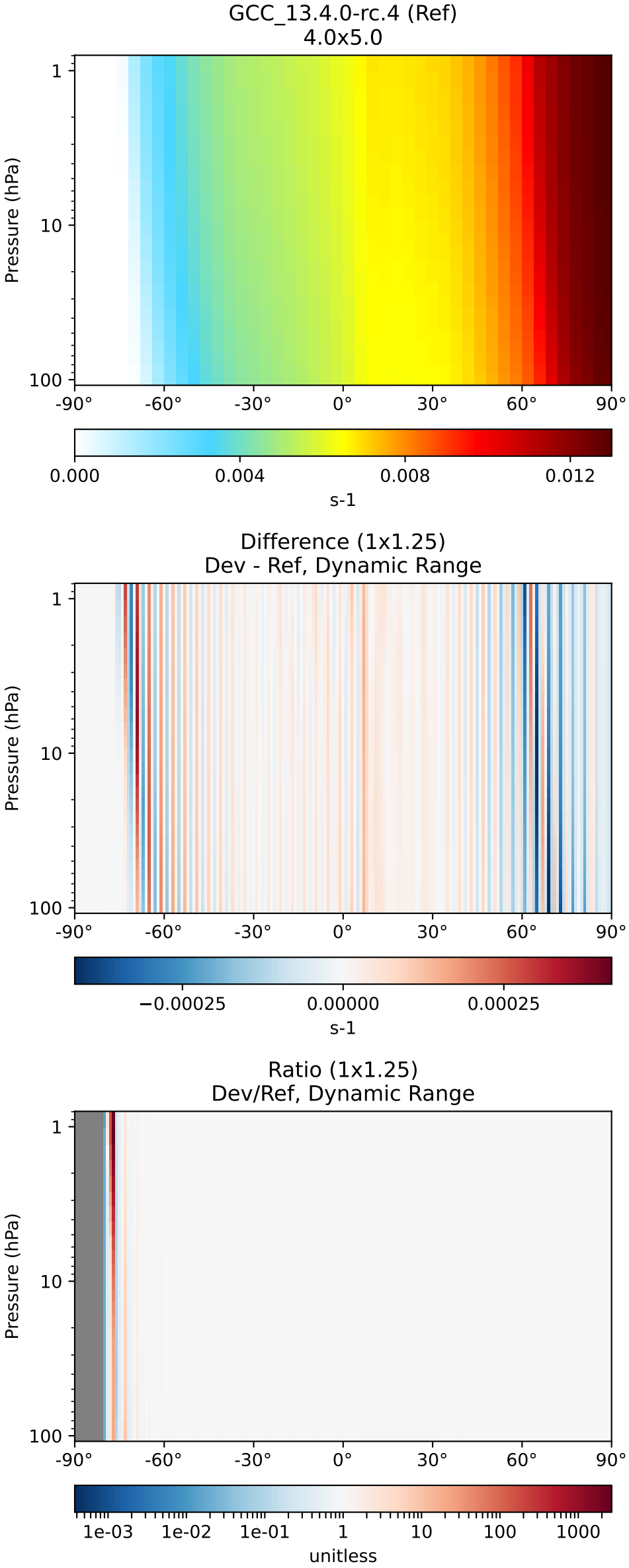


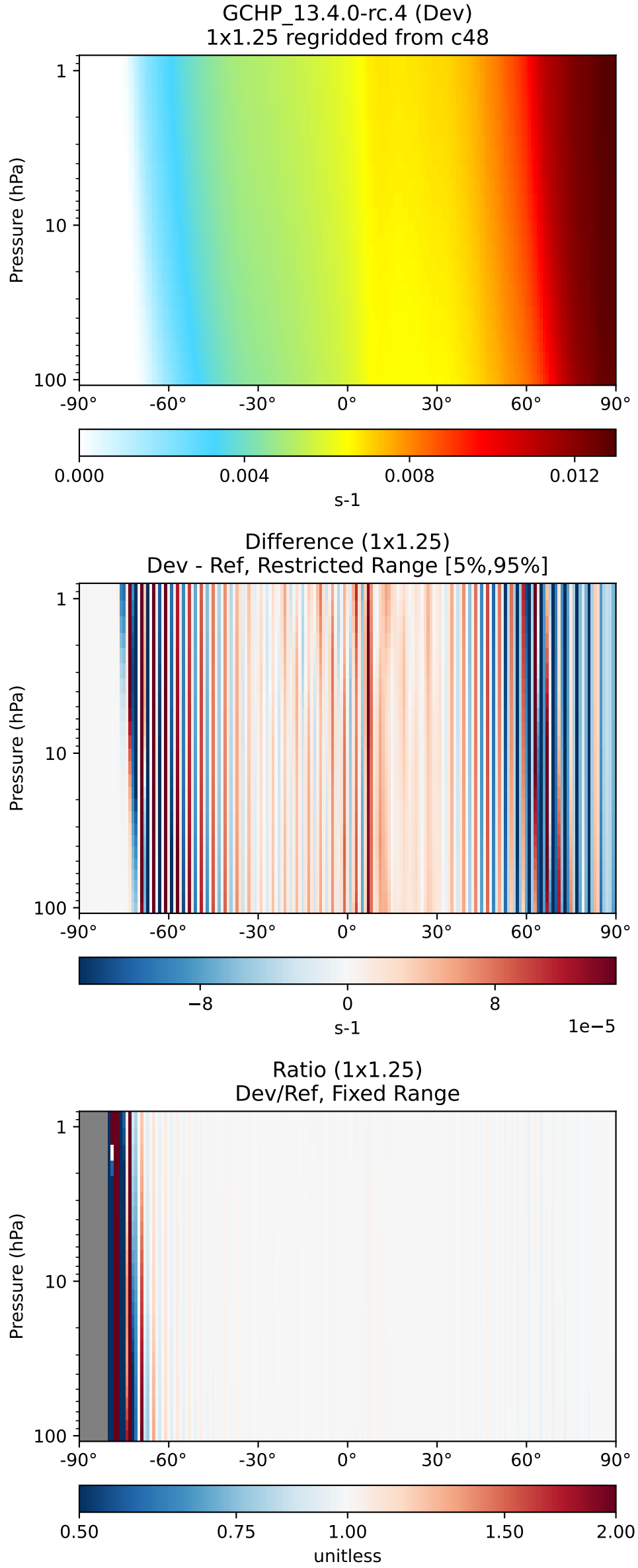
Jval_HOCl, Zonal Mean



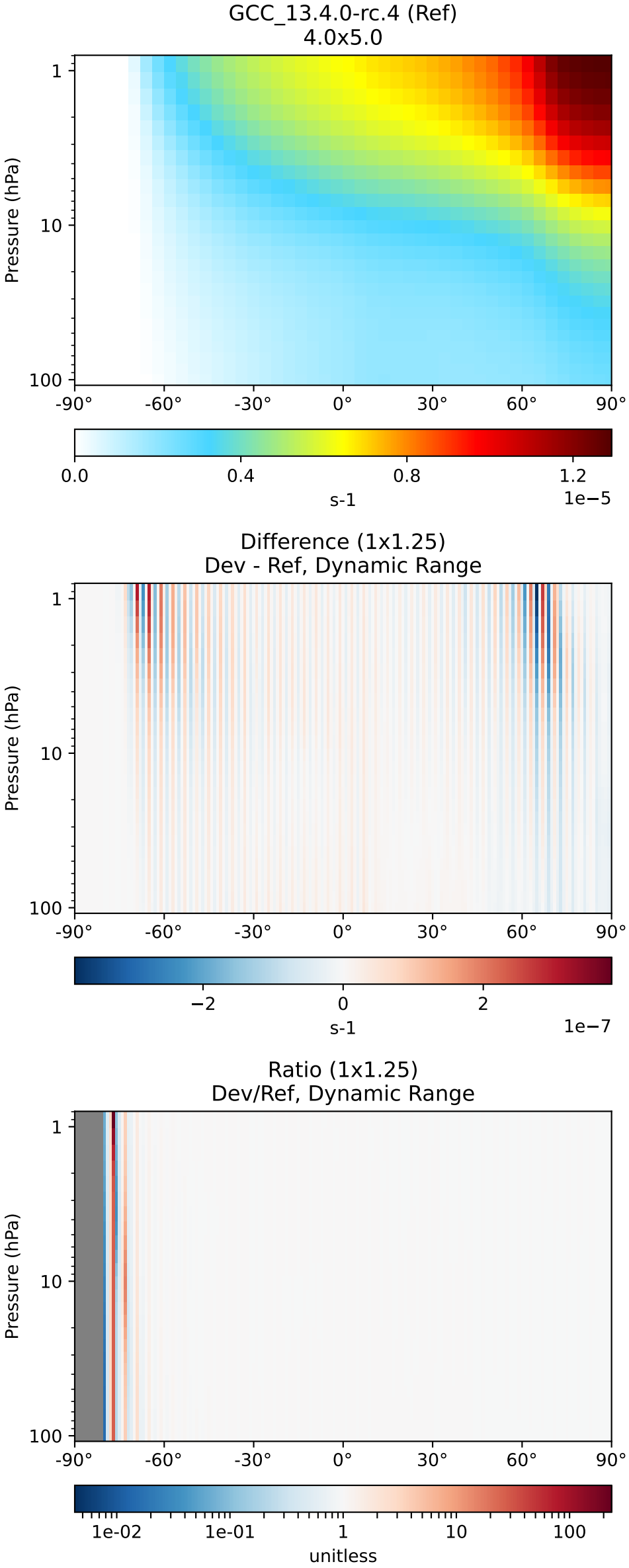


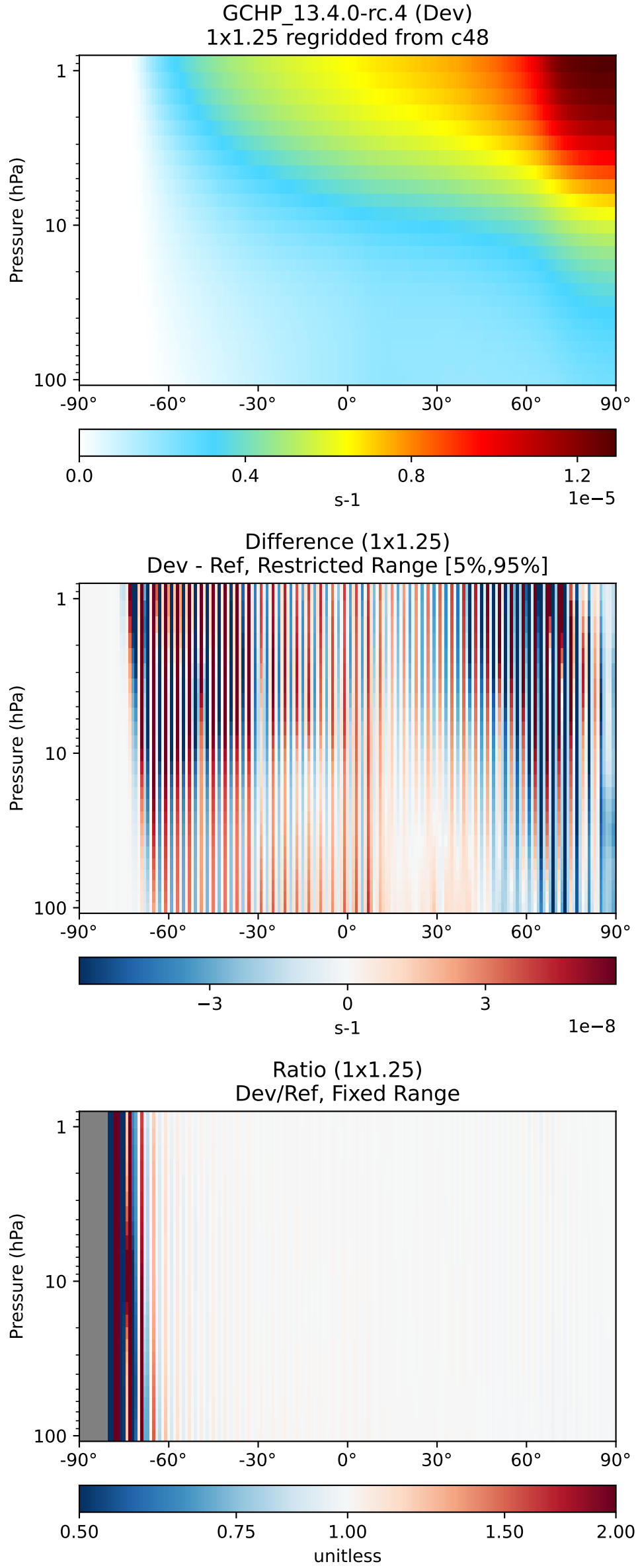
Jval_HOI, Zonal Mean



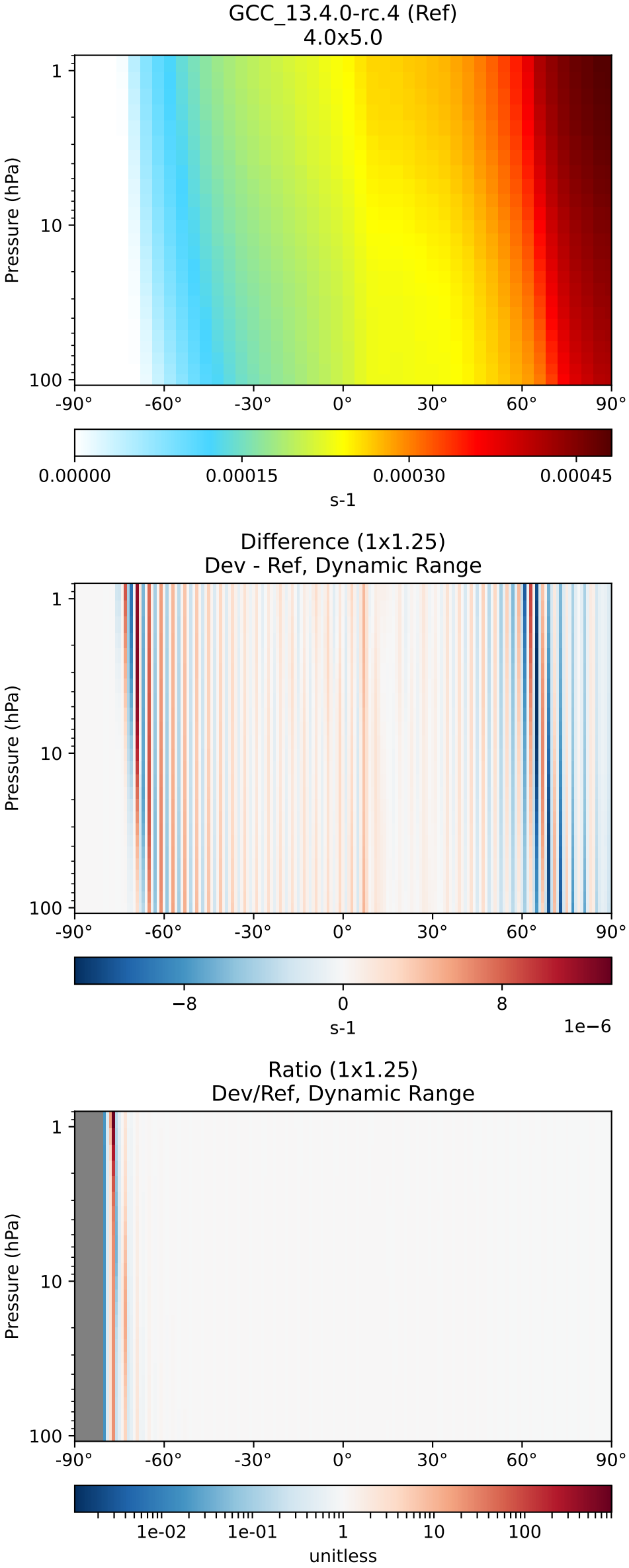


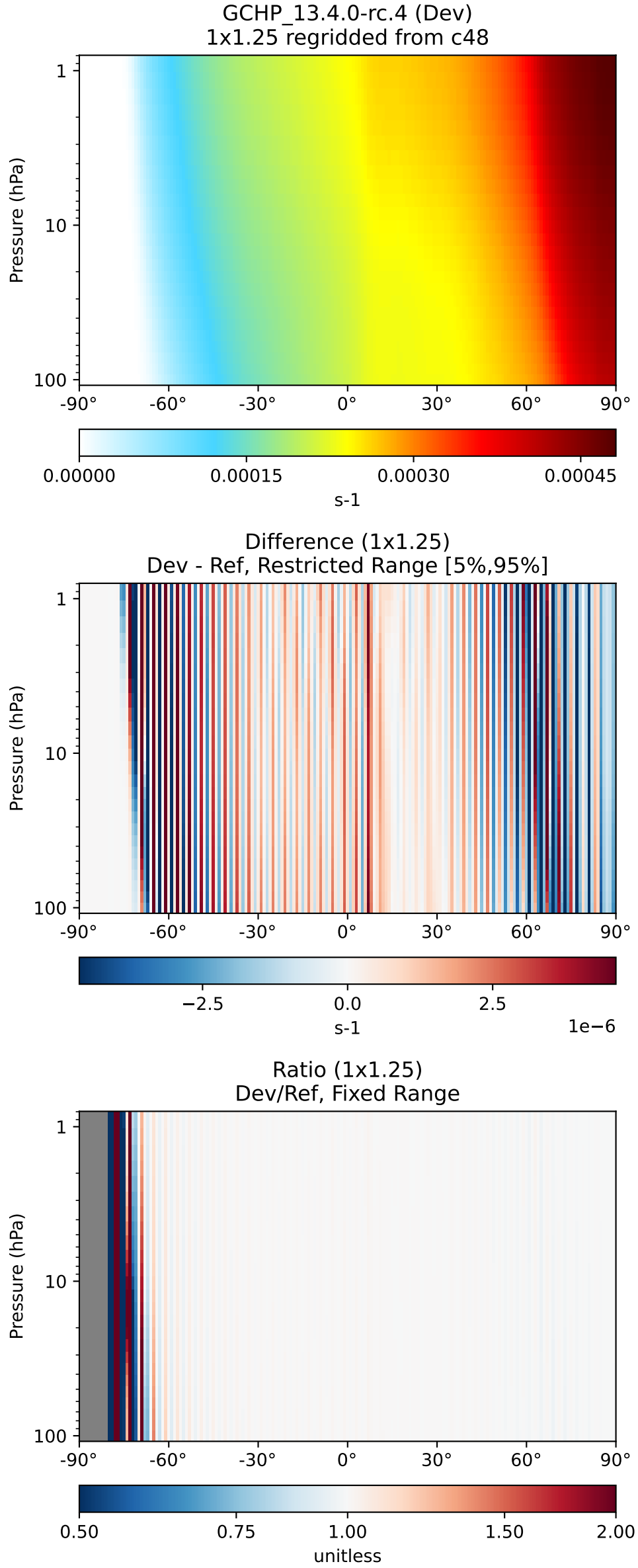
Jval_HONIT, Zonal Mean



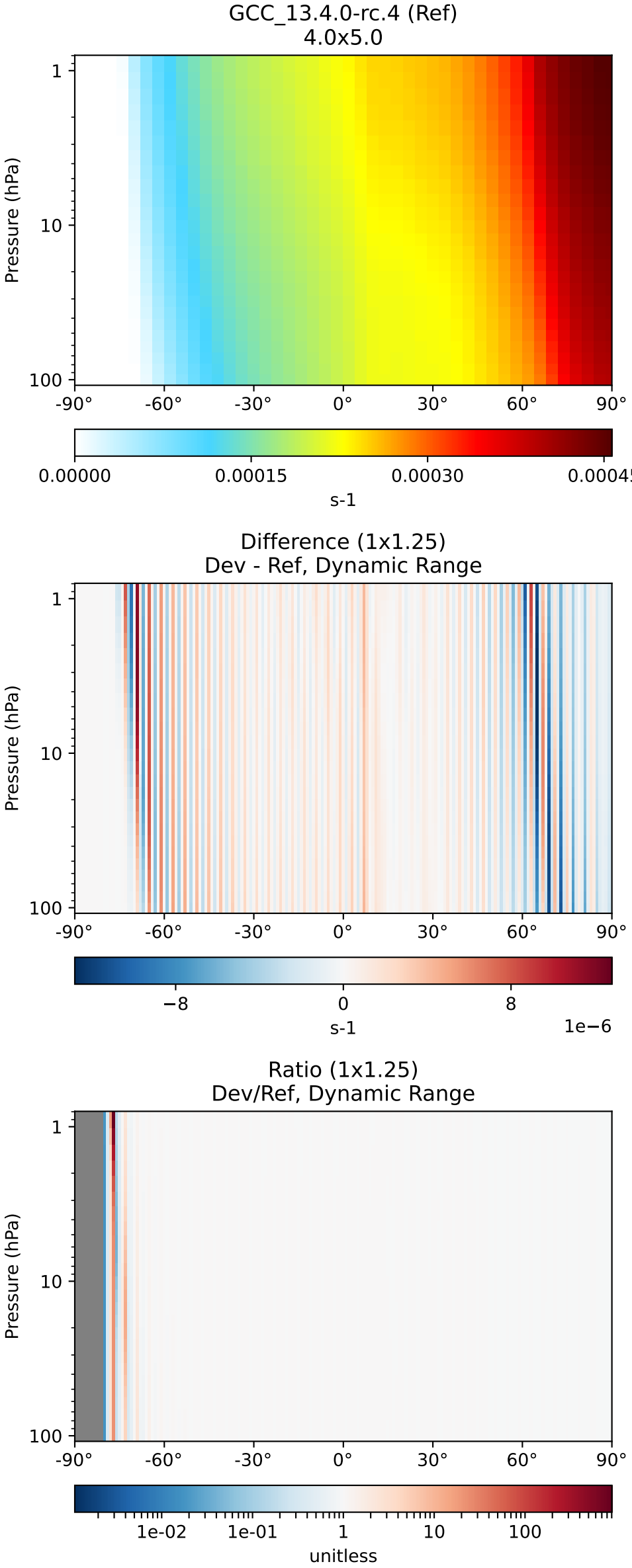


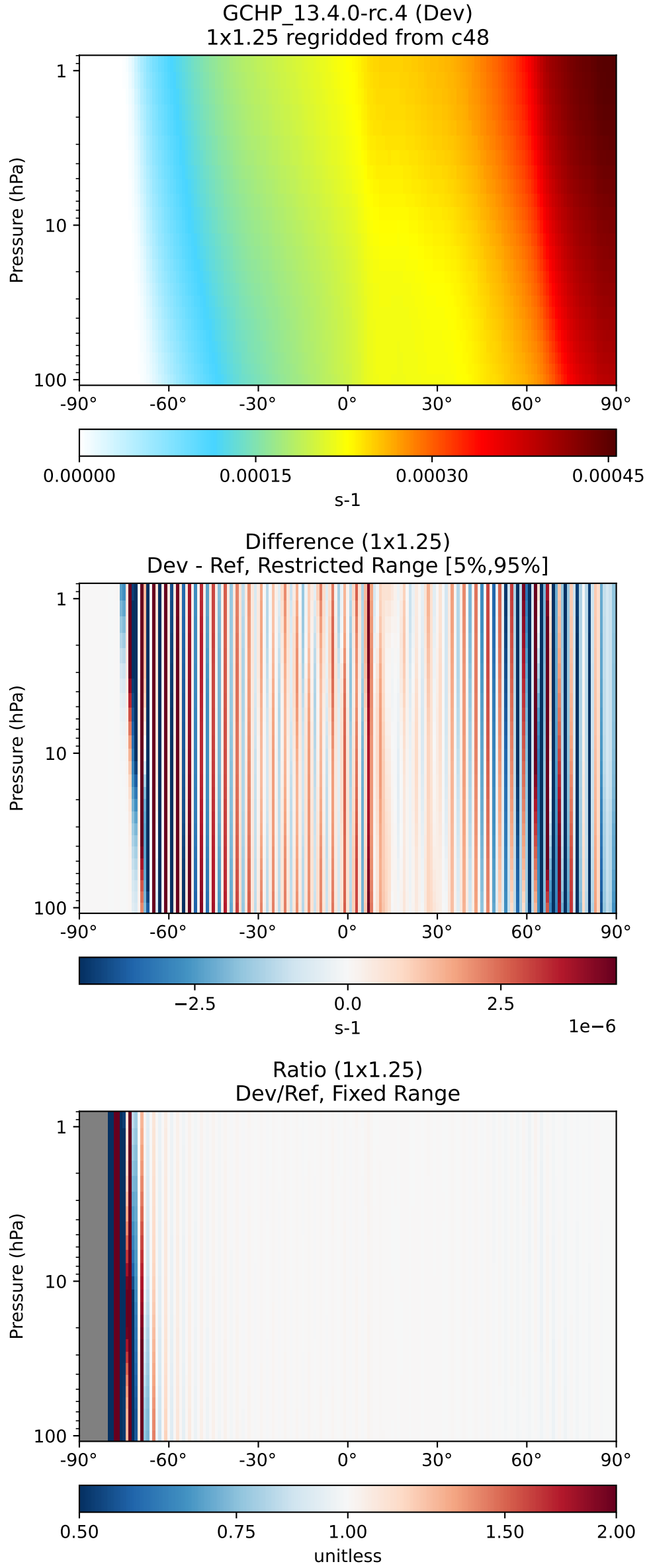
Jval_HPALD1, Zonal Mean



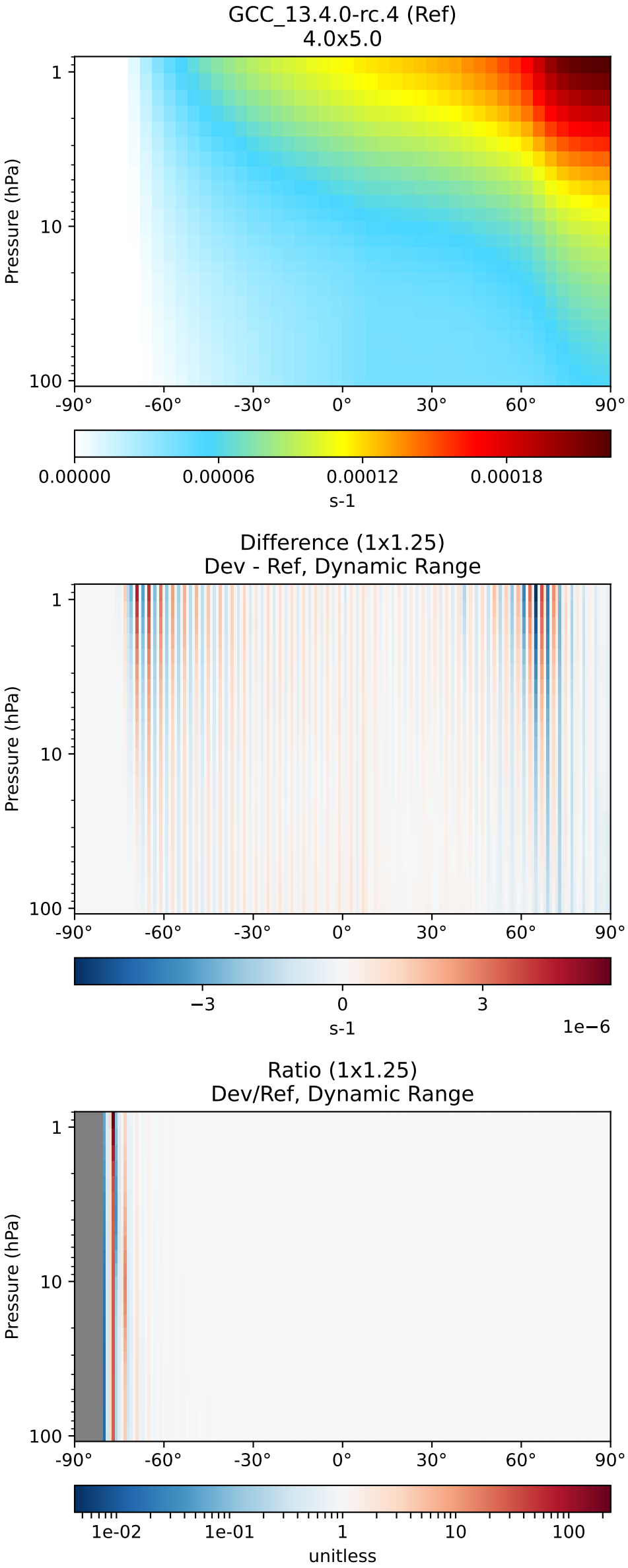


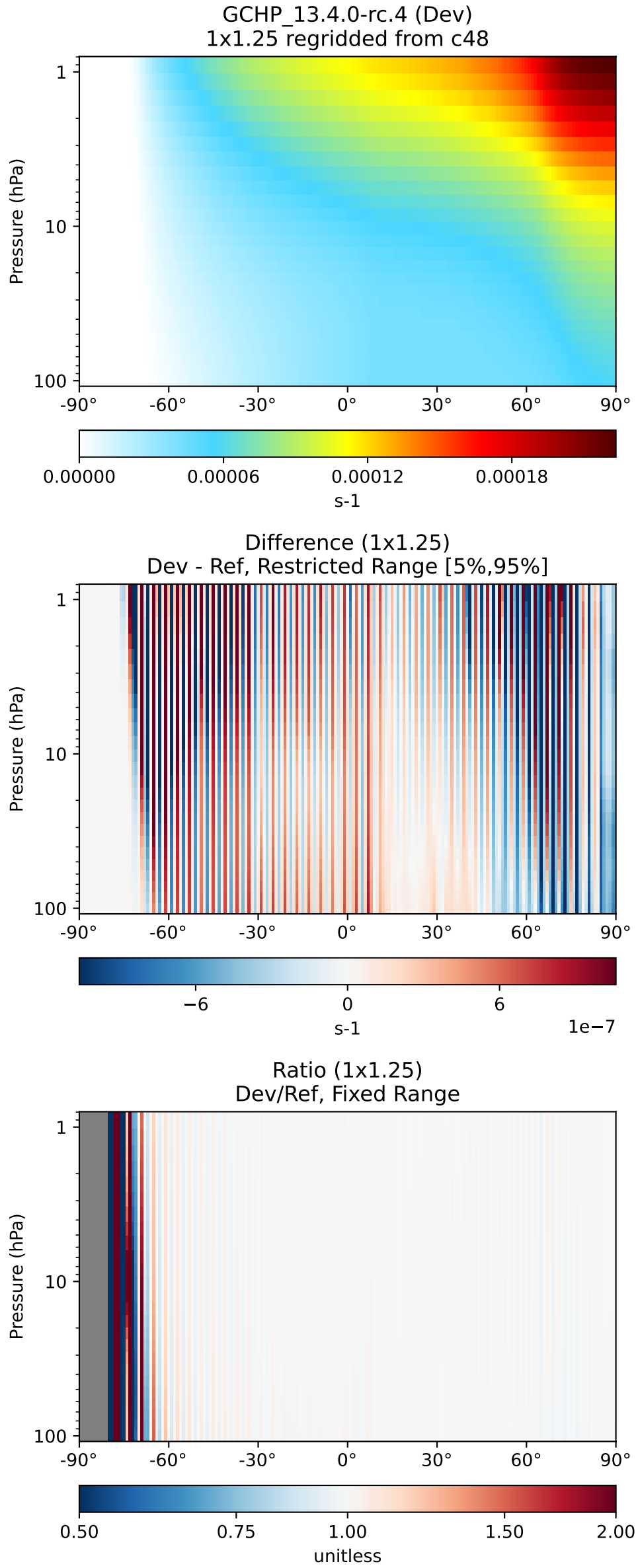
Jval_HPALD2, Zonal Mean



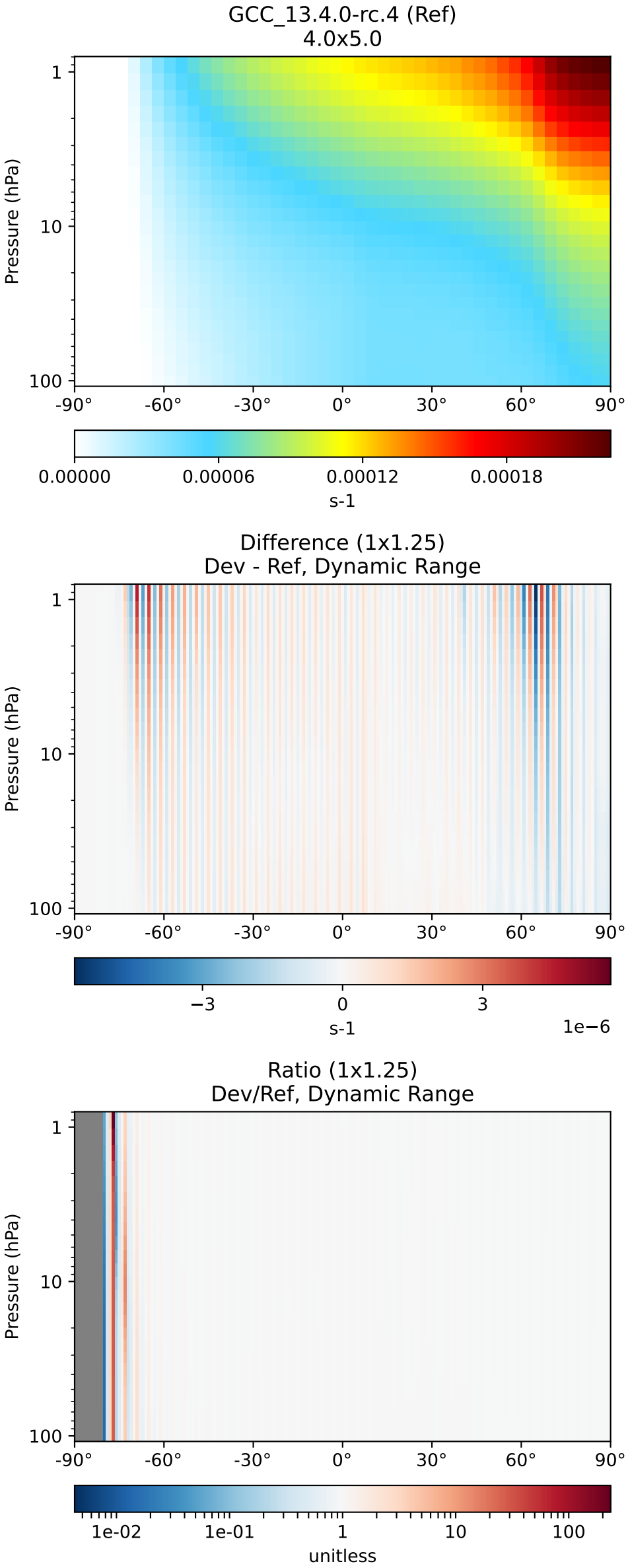


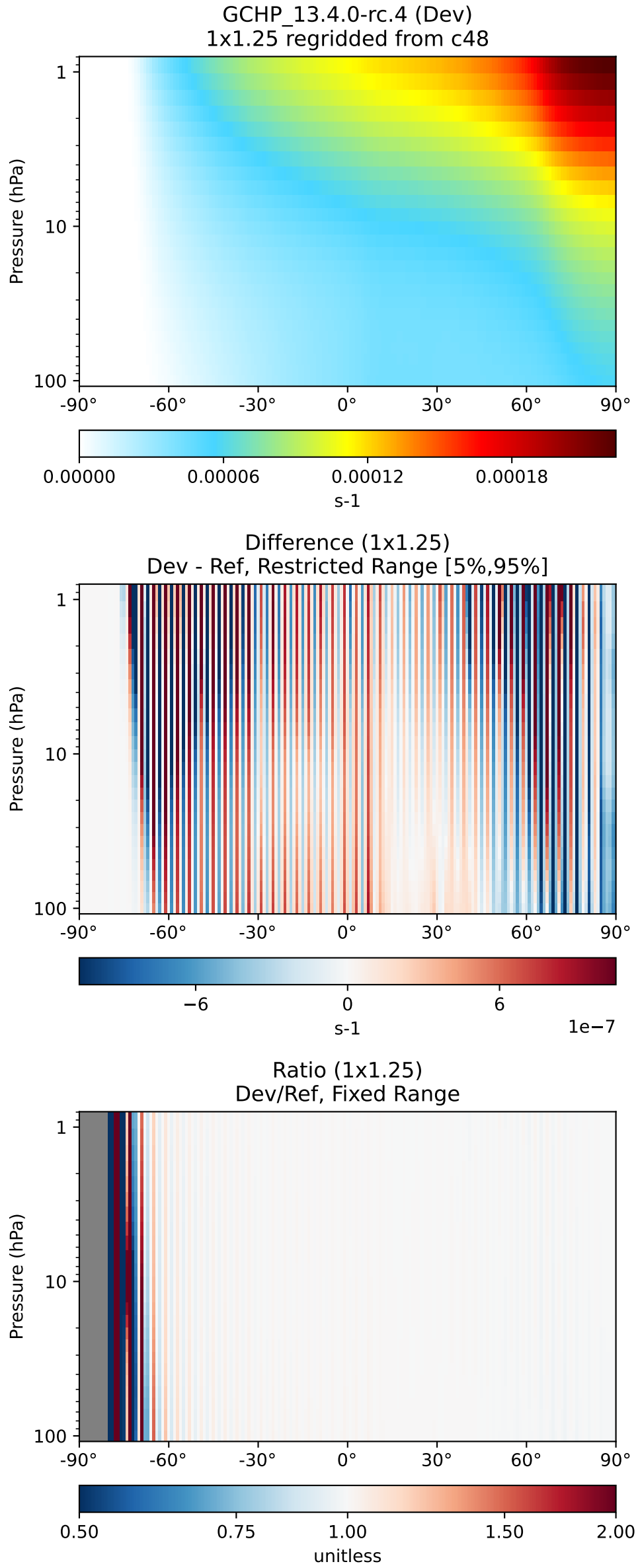
Jval_HPALD3, Zonal Mean



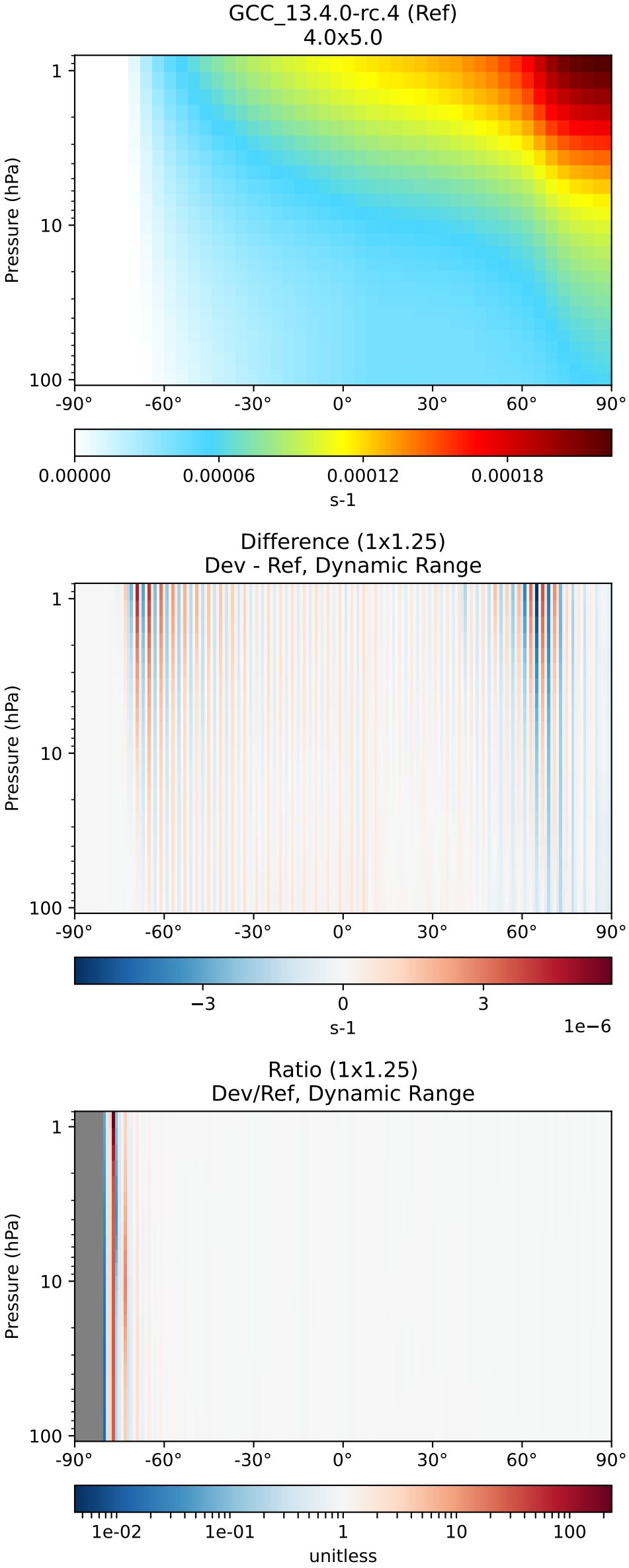


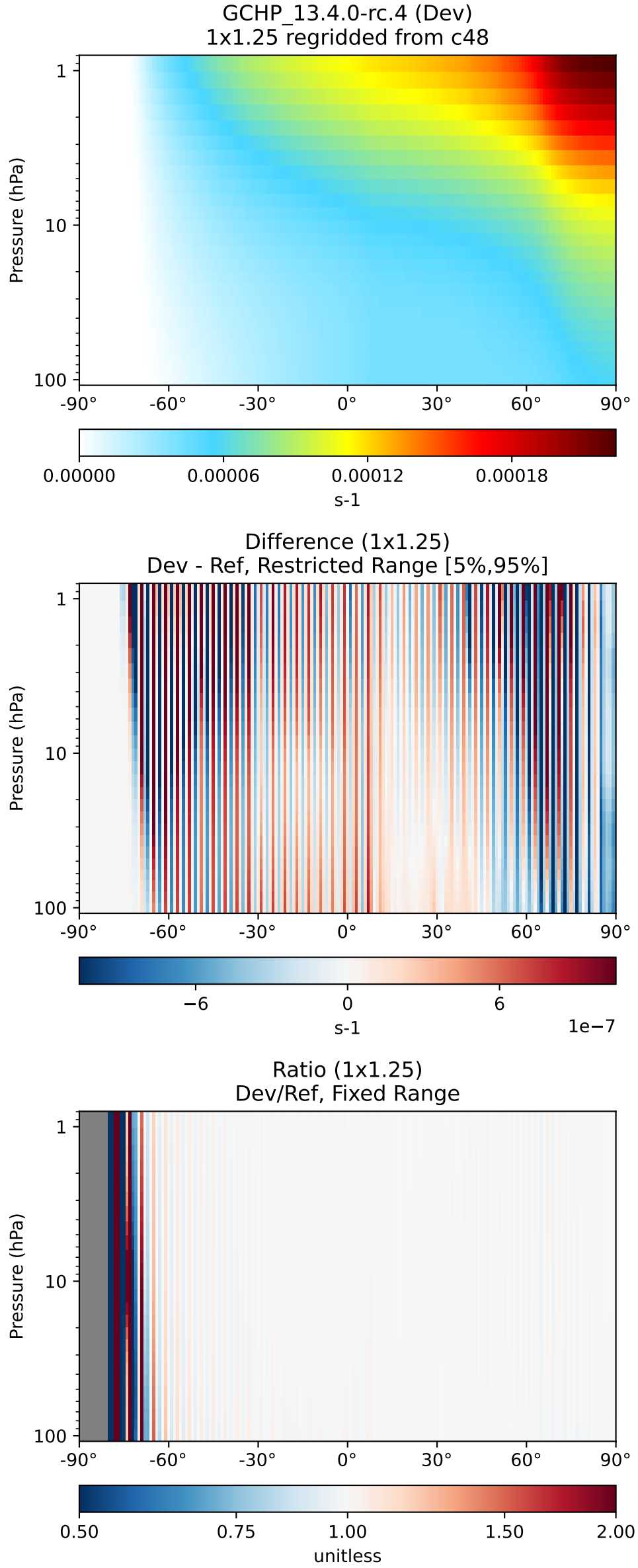
Jval_HPALD4, Zonal Mean



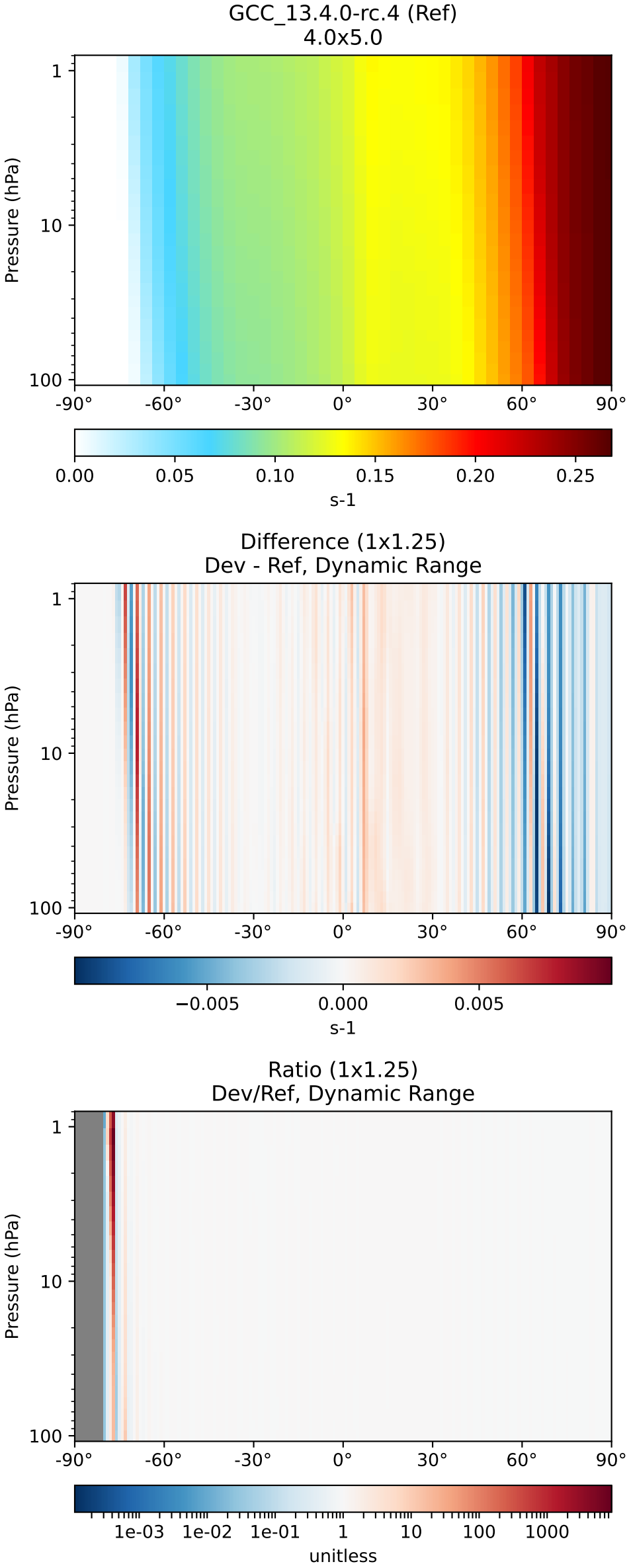


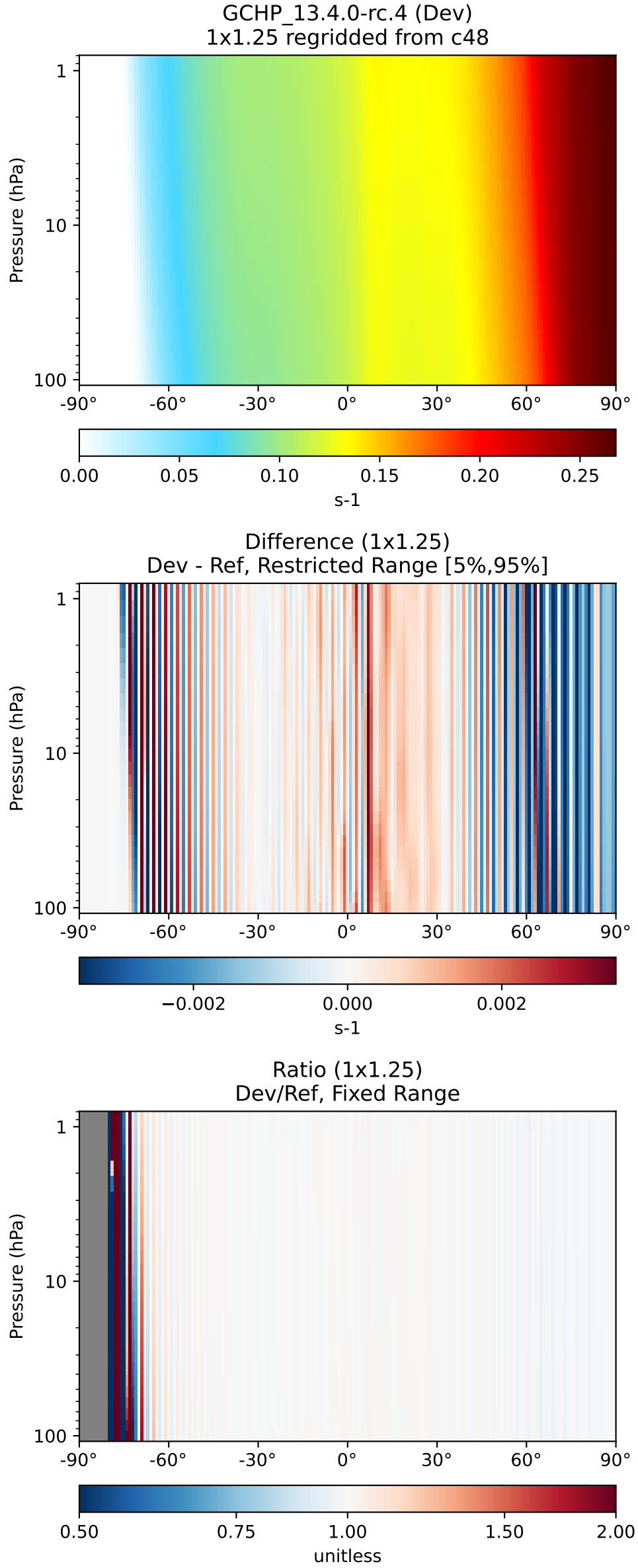
Jval_HPETHNL, Zonal Mean



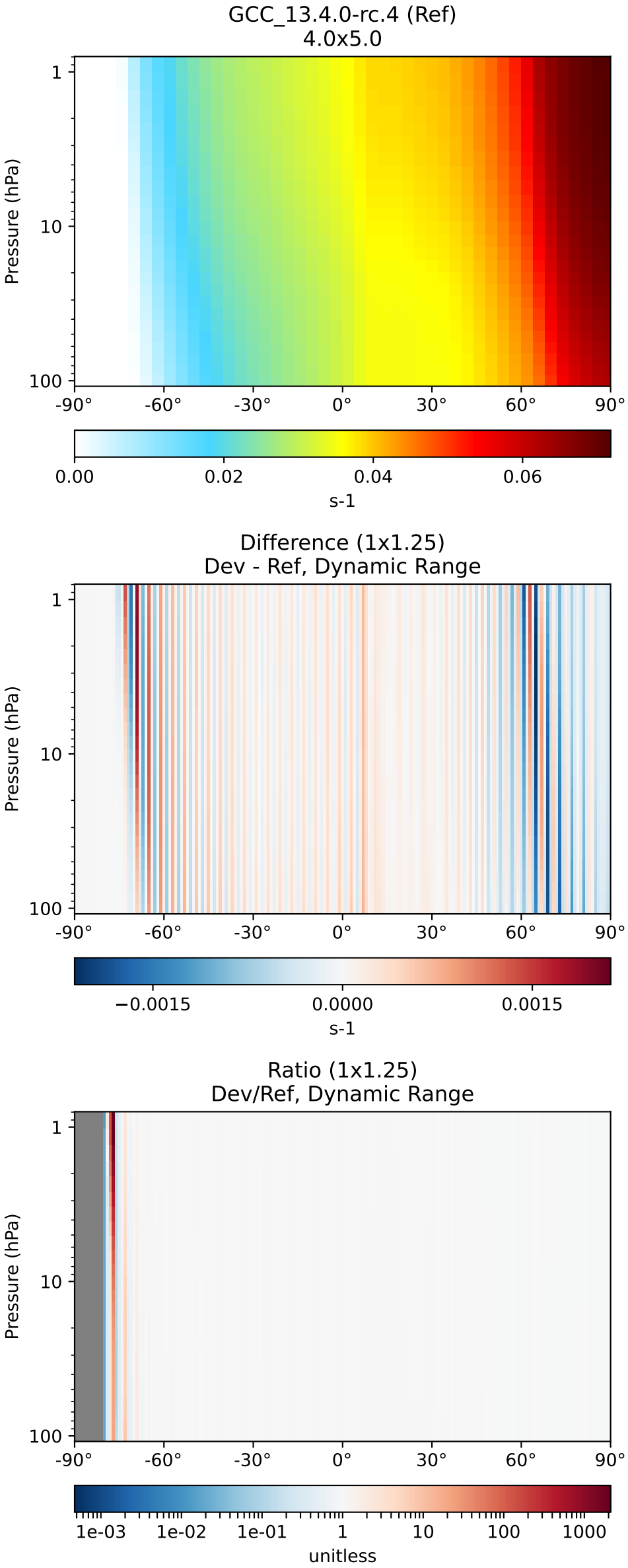


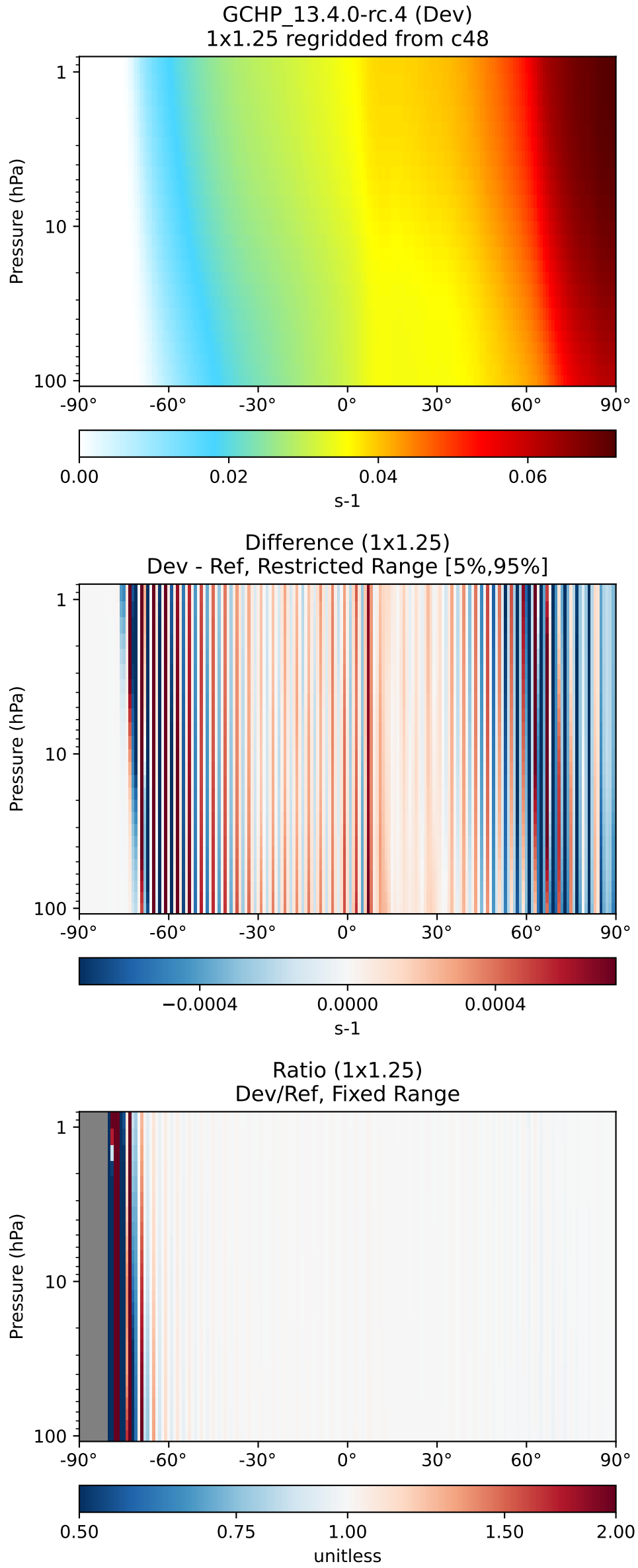
Jval_I2, Zonal Mean



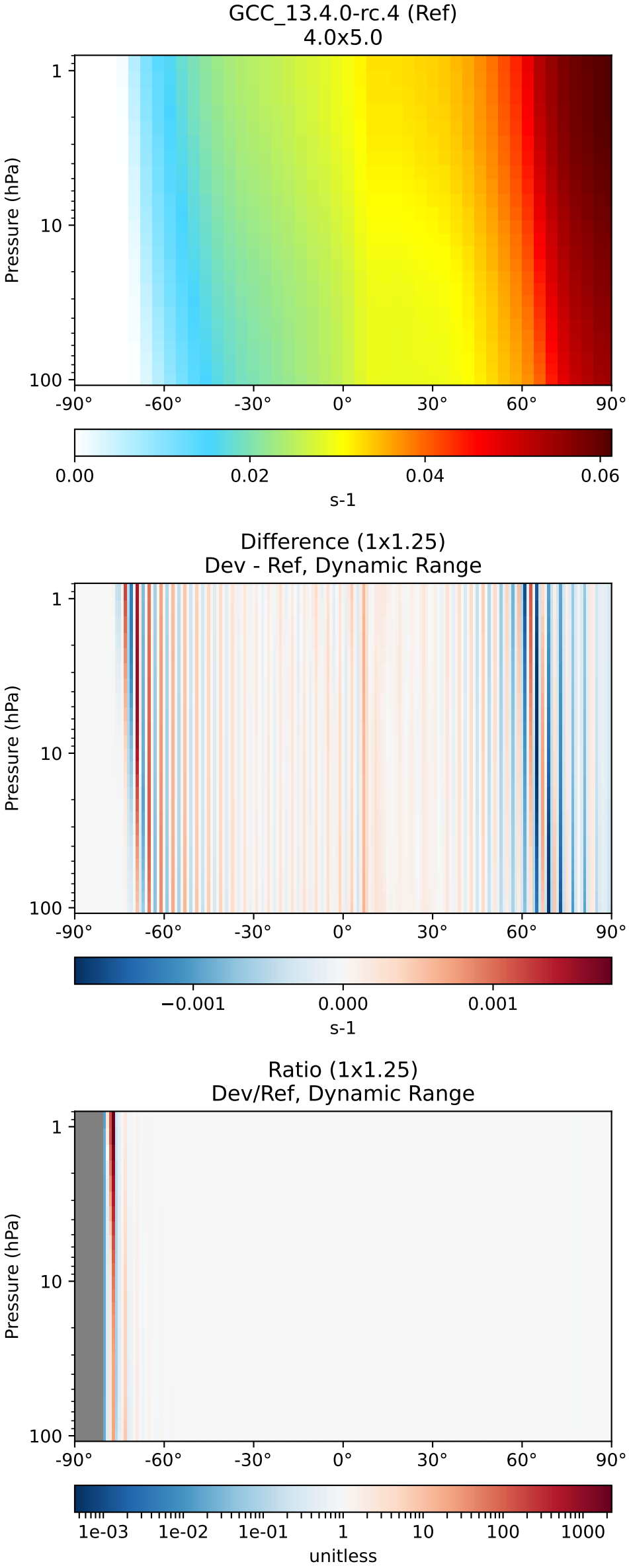


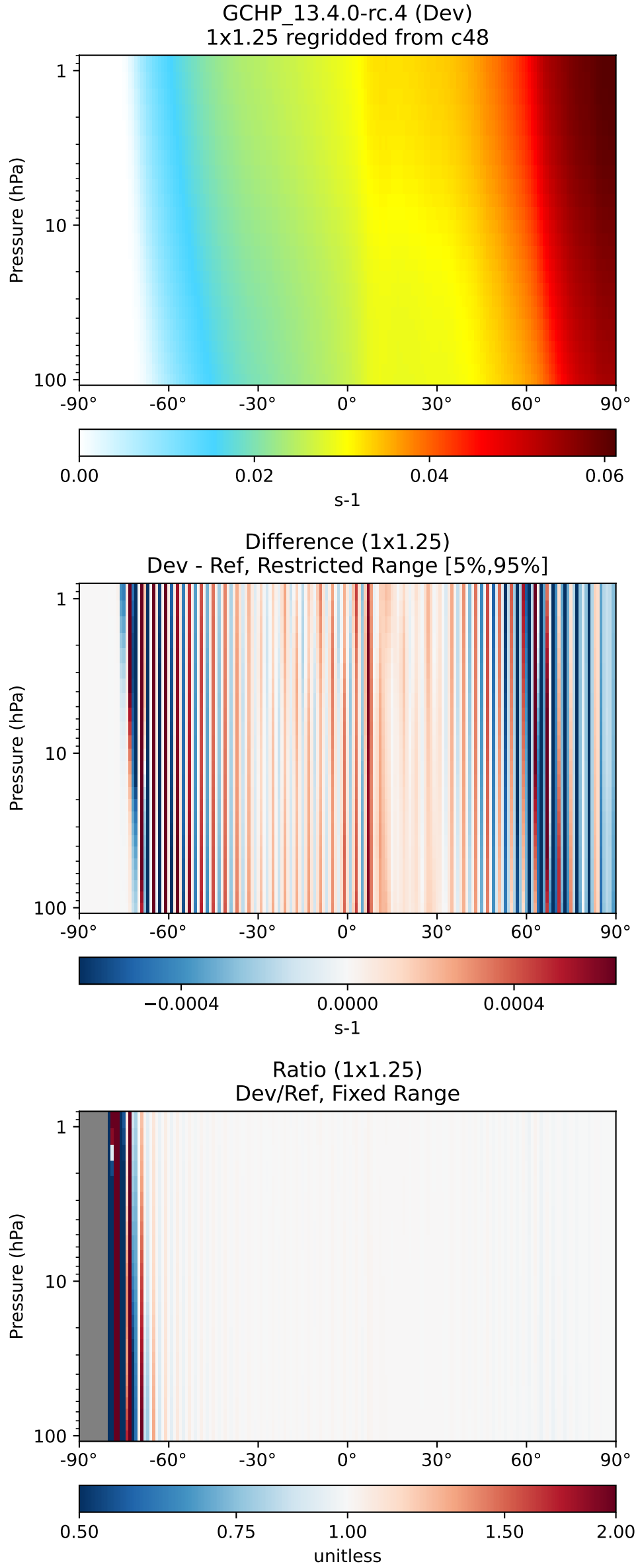
Jval_I2O2, Zonal Mean



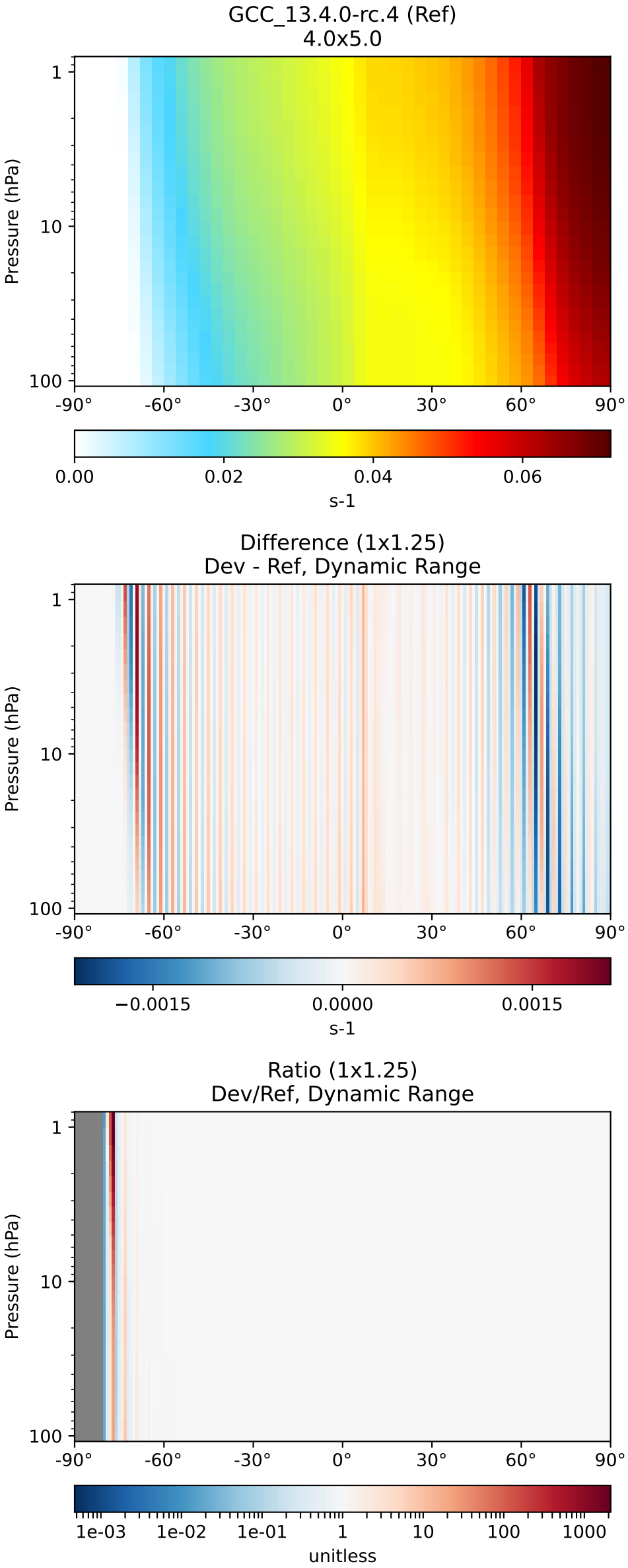


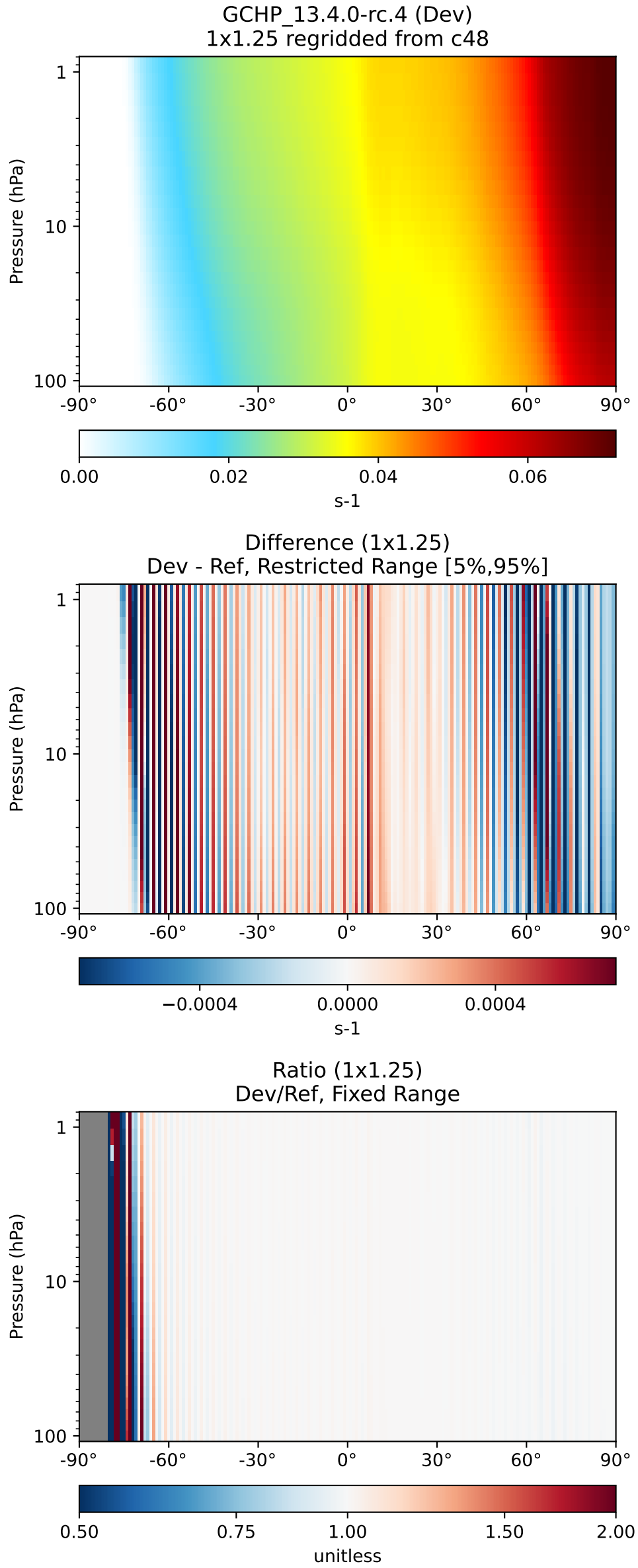
Jval_I2O3, Zonal Mean



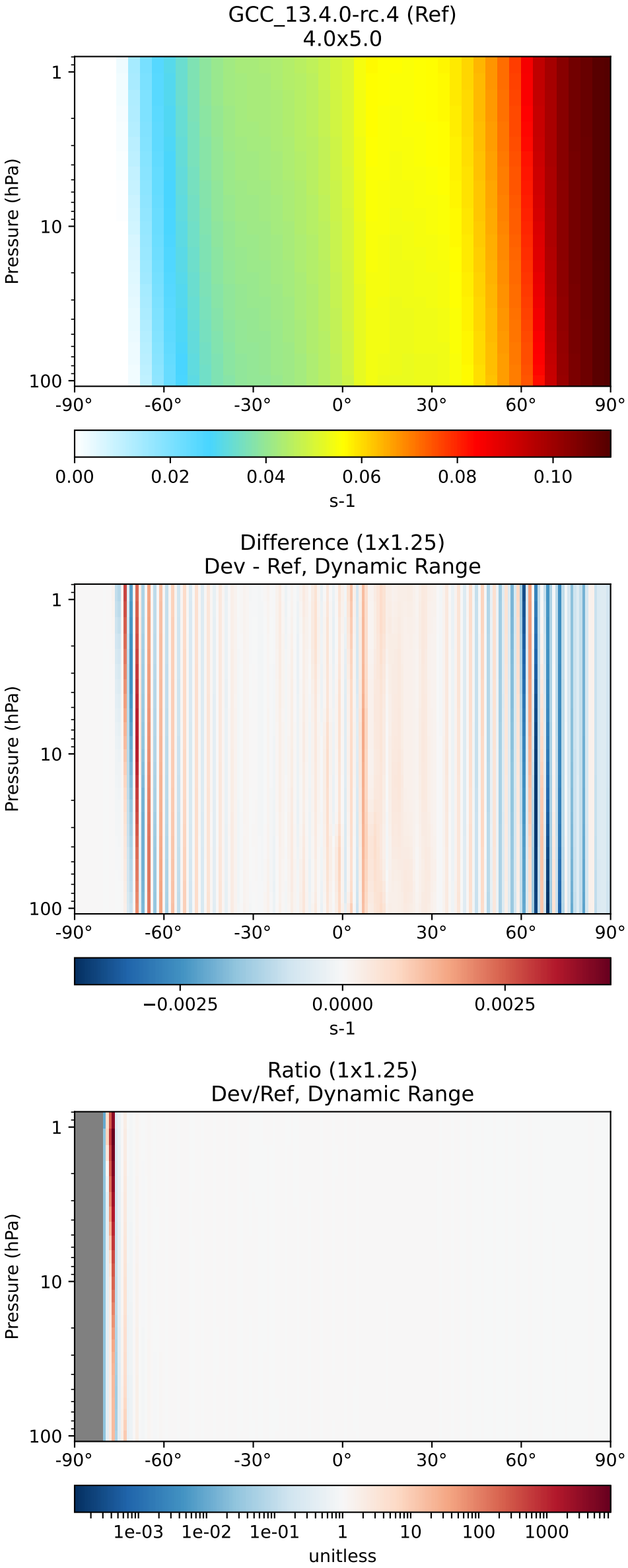


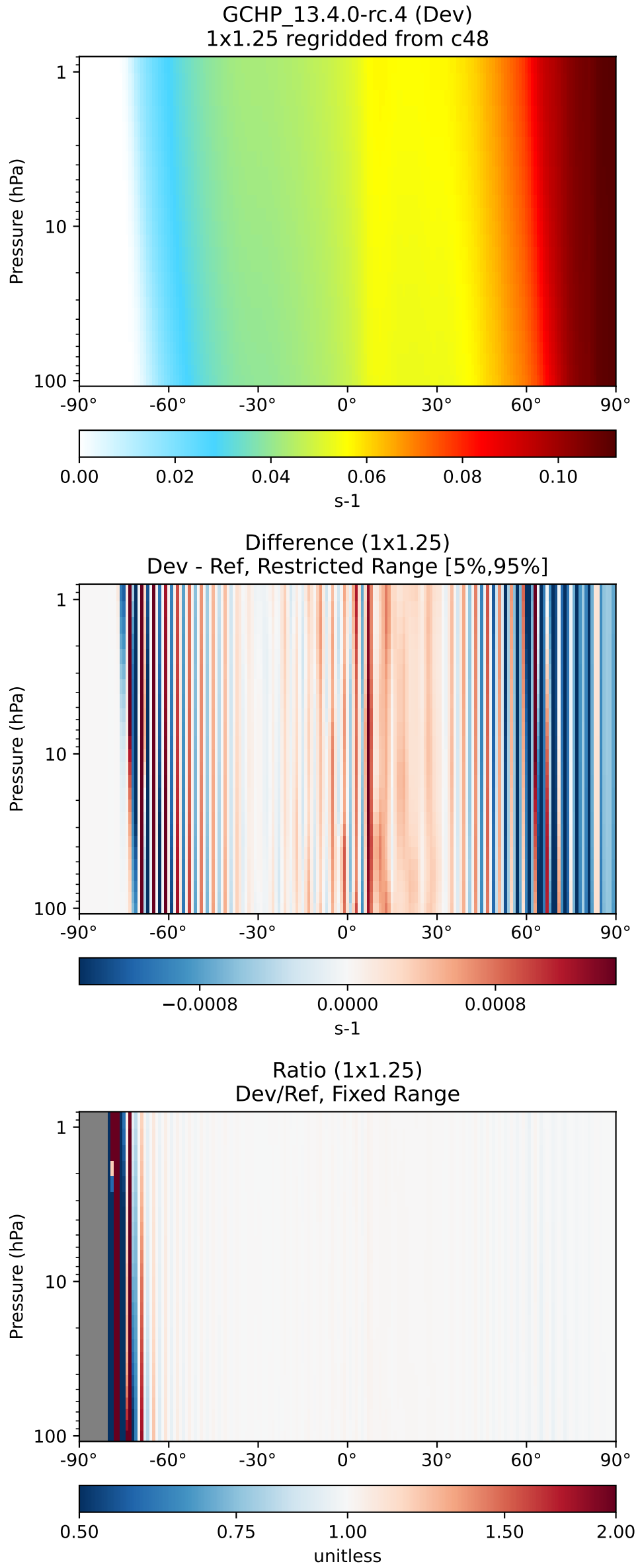
Jval_I2O4, Zonal Mean



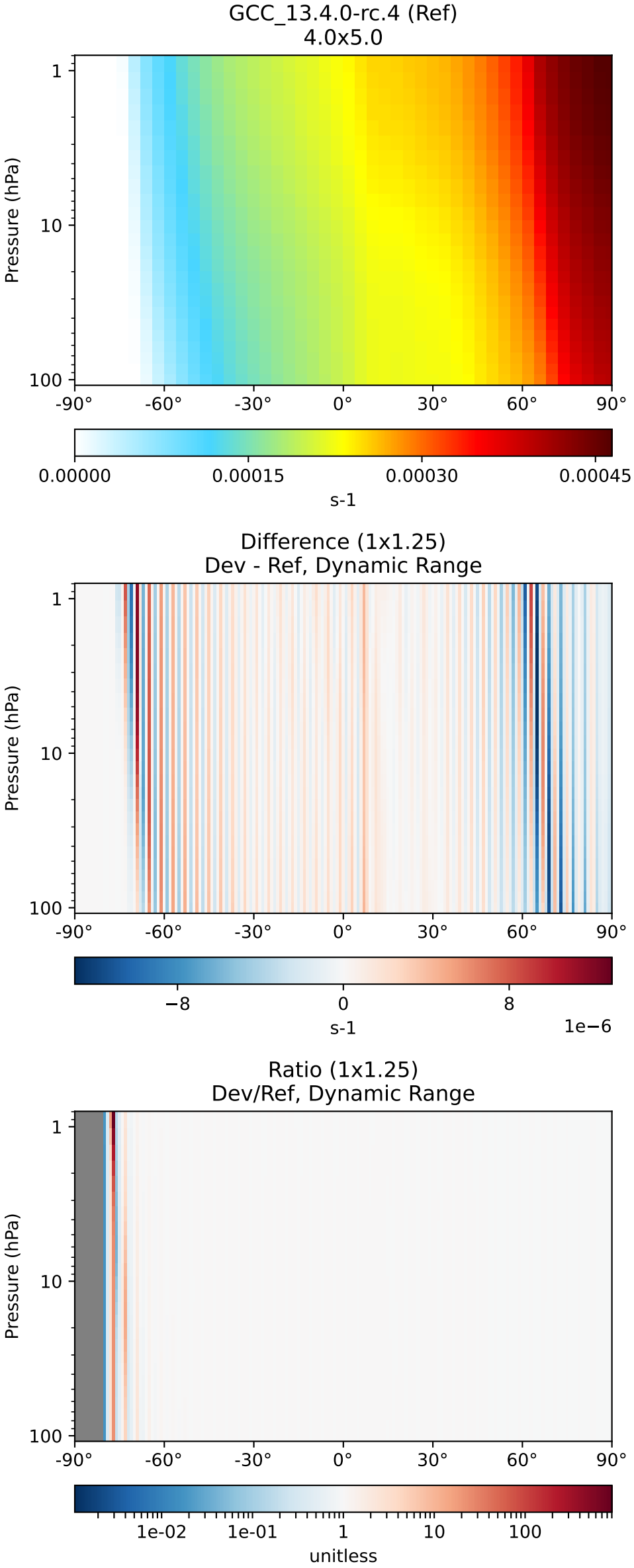


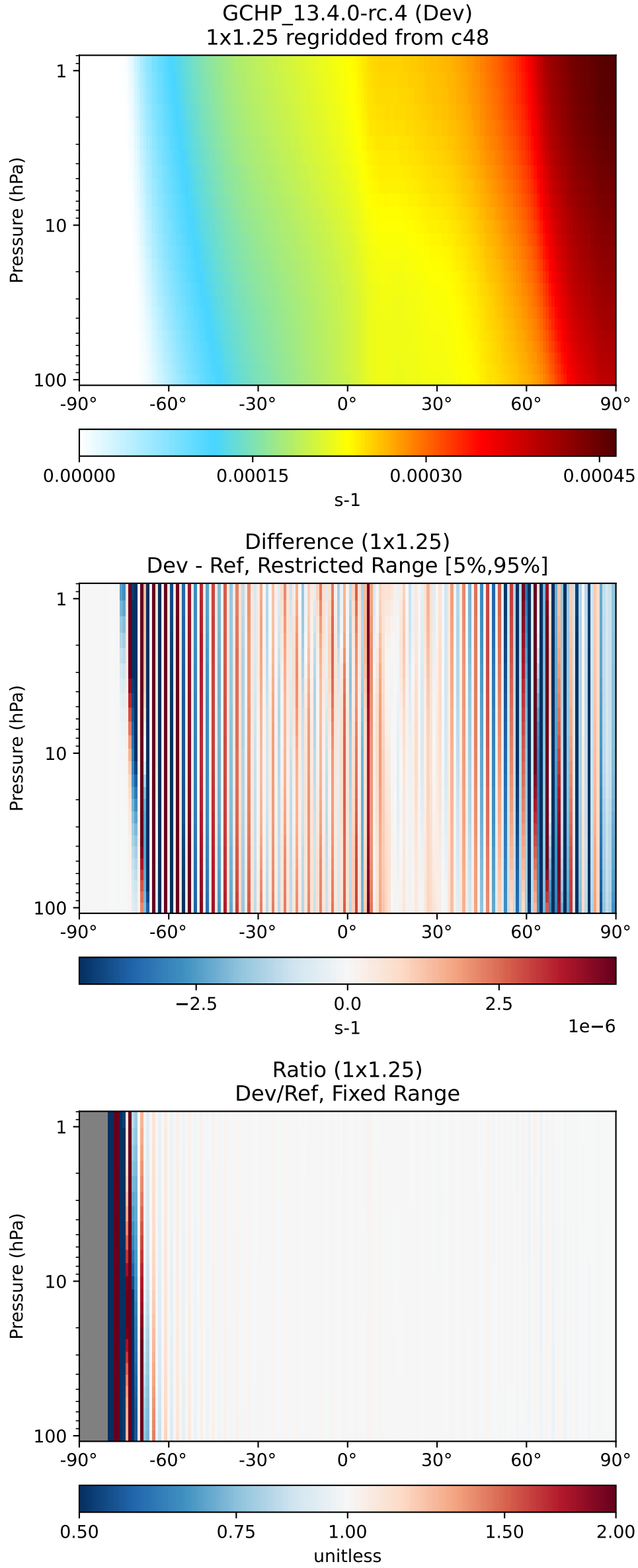
Jval_IBr, Zonal Mean



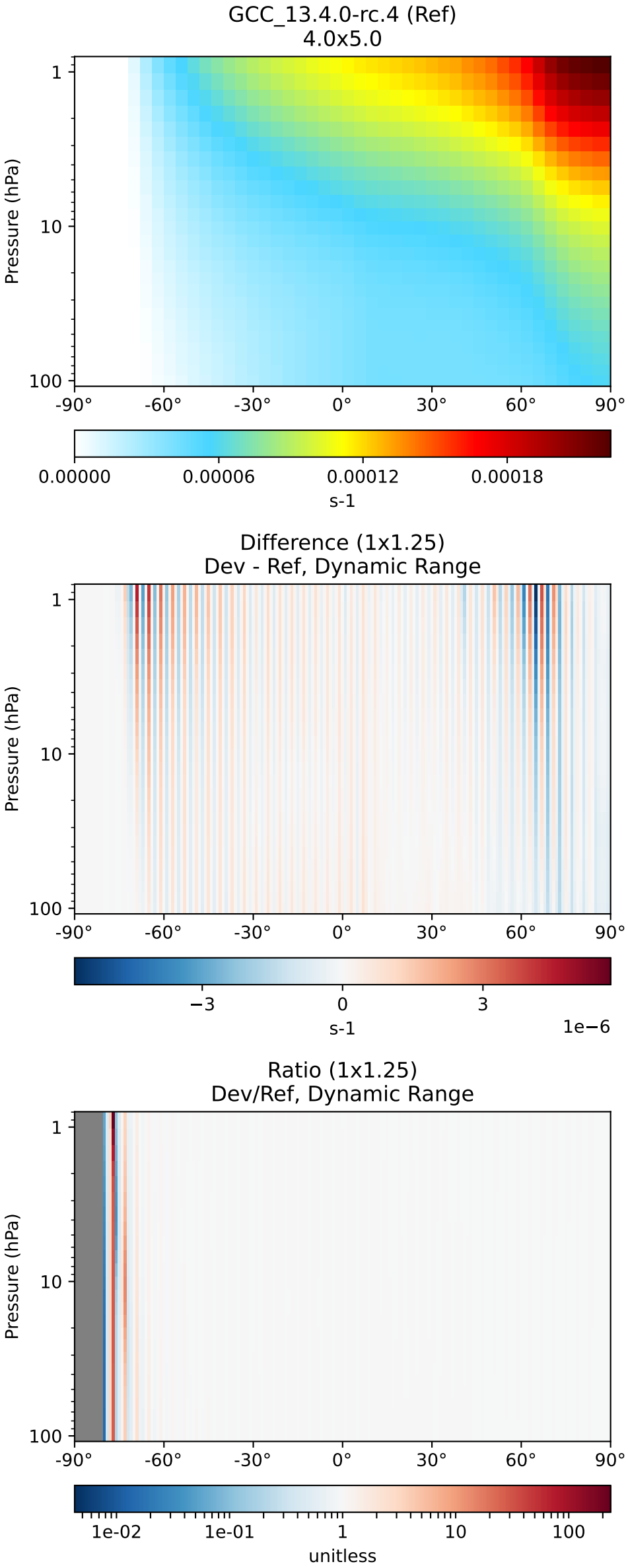


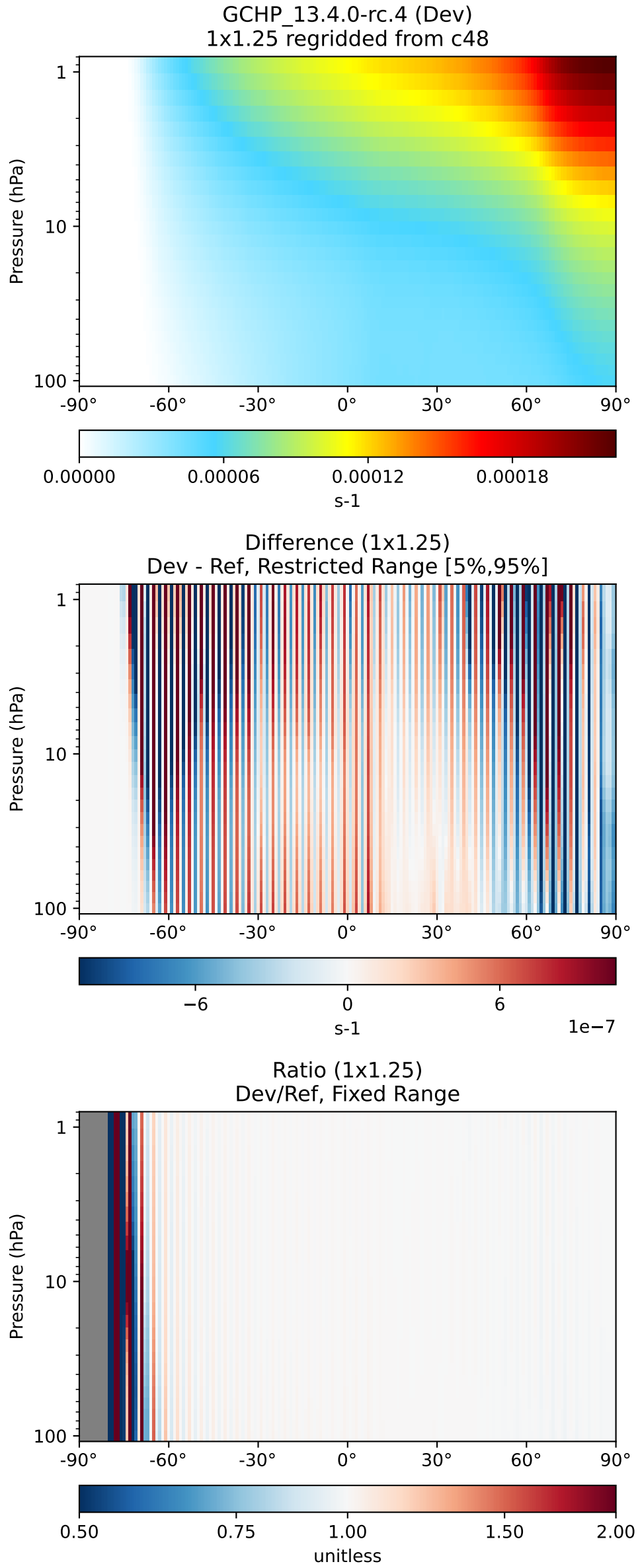
Jval_ICN, Zonal Mean



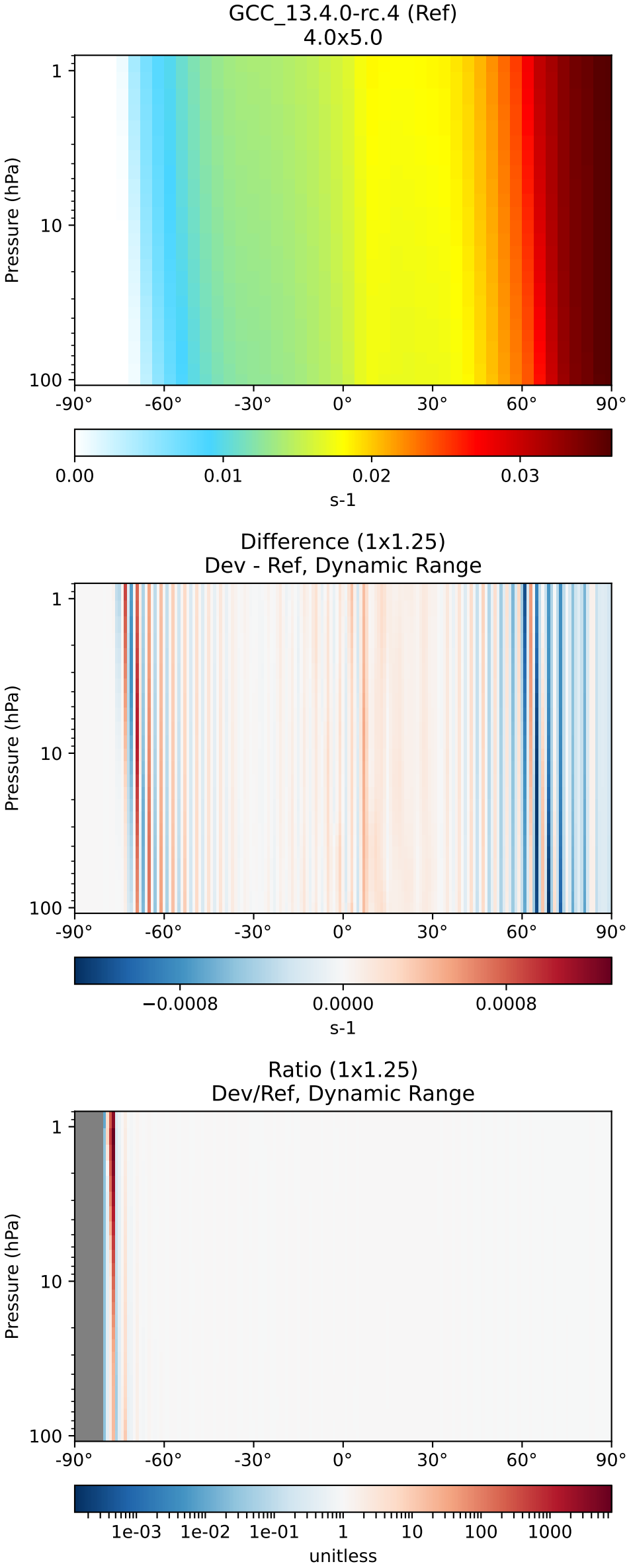


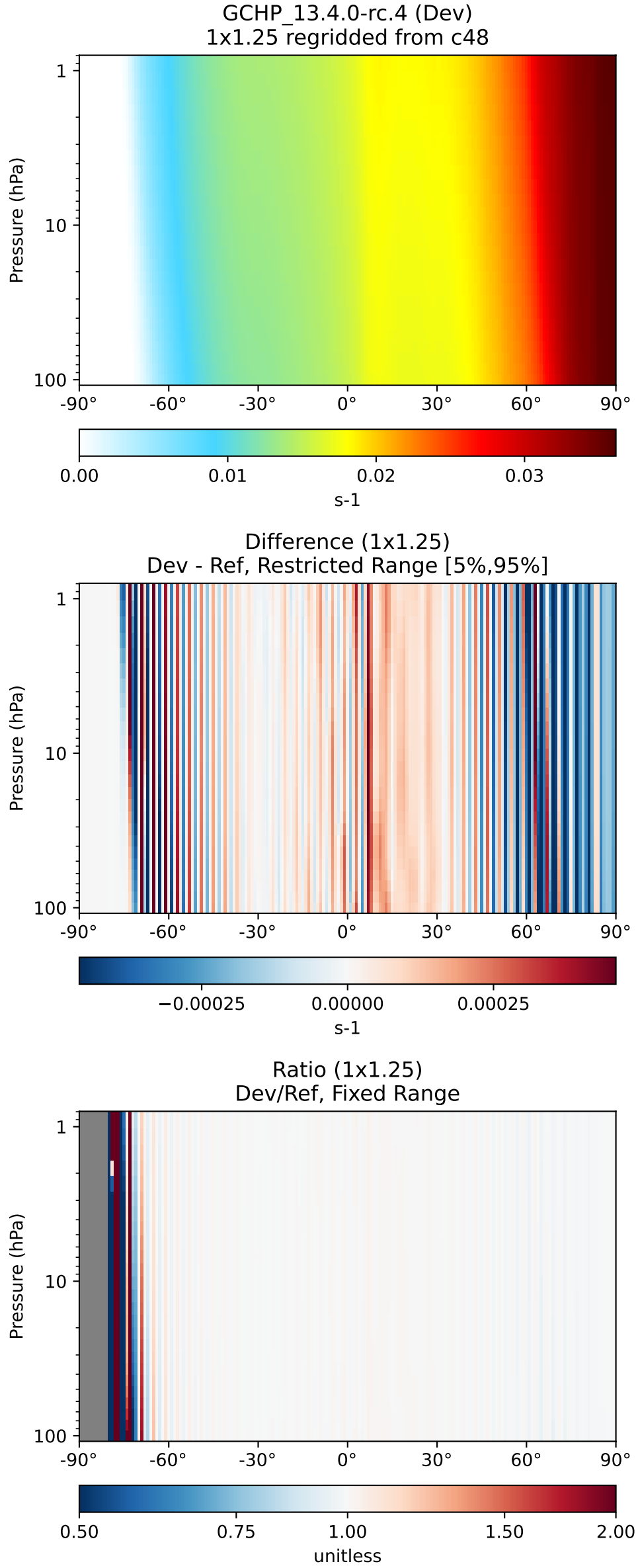
Jval_ICPDH, Zonal Mean



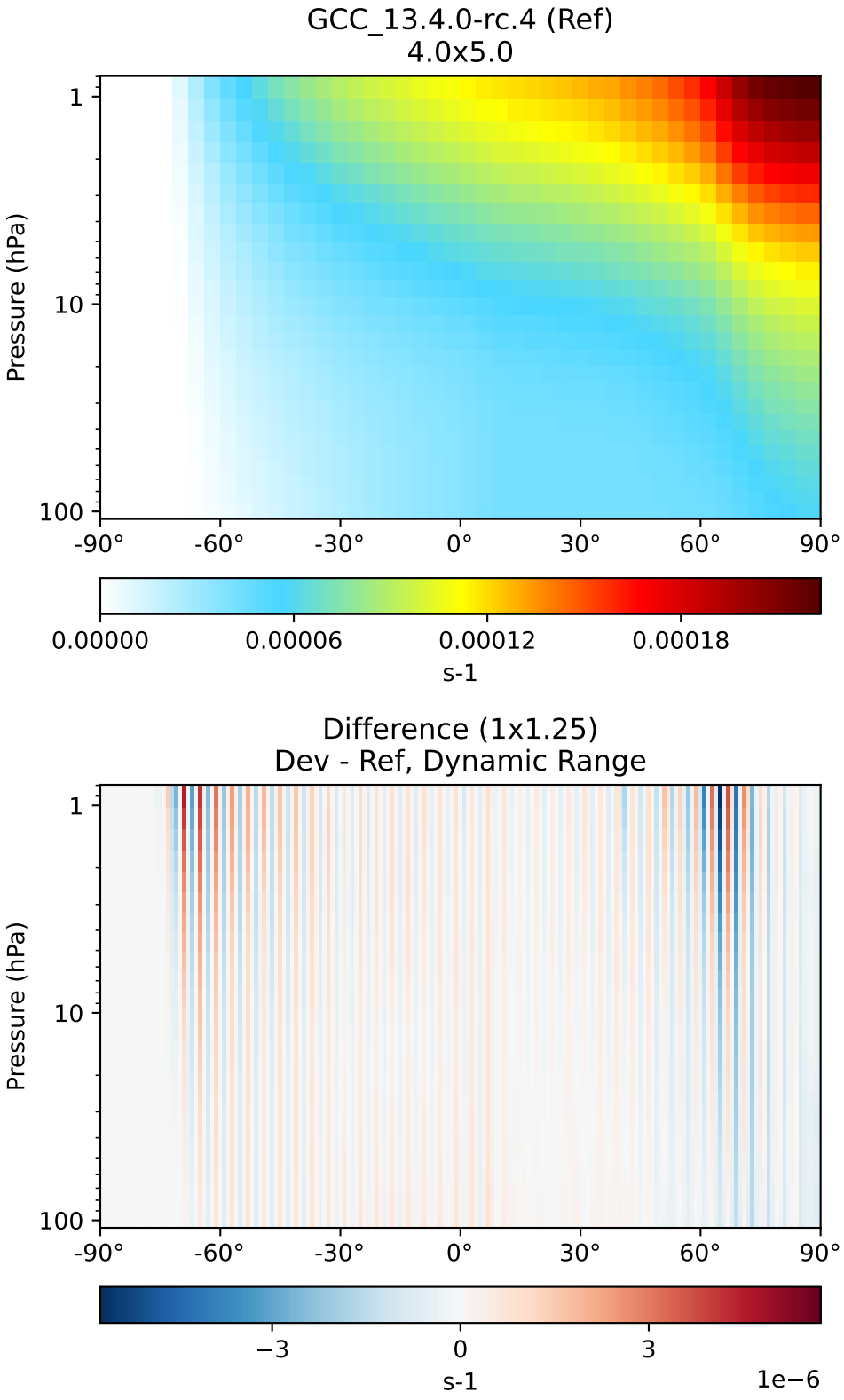


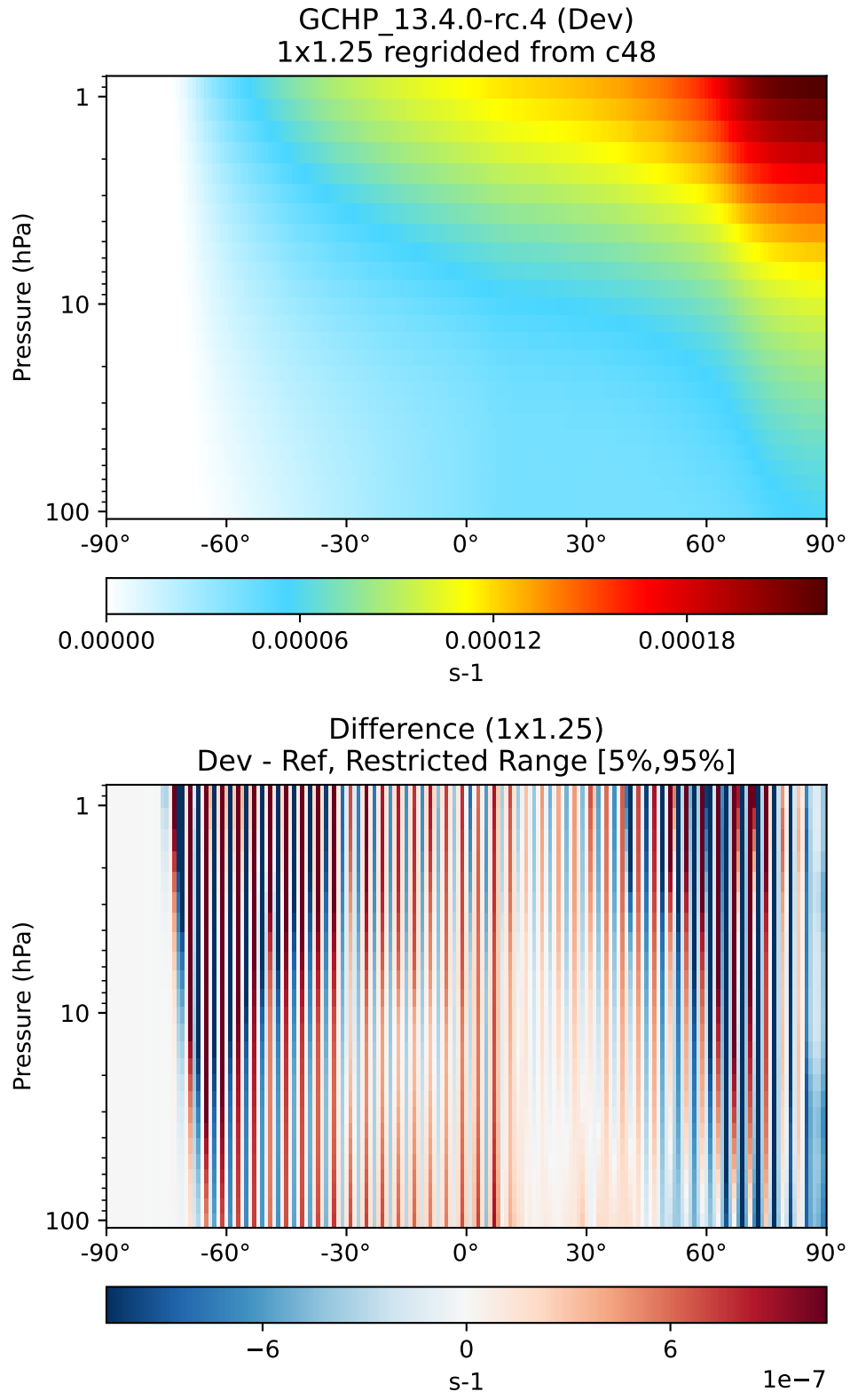
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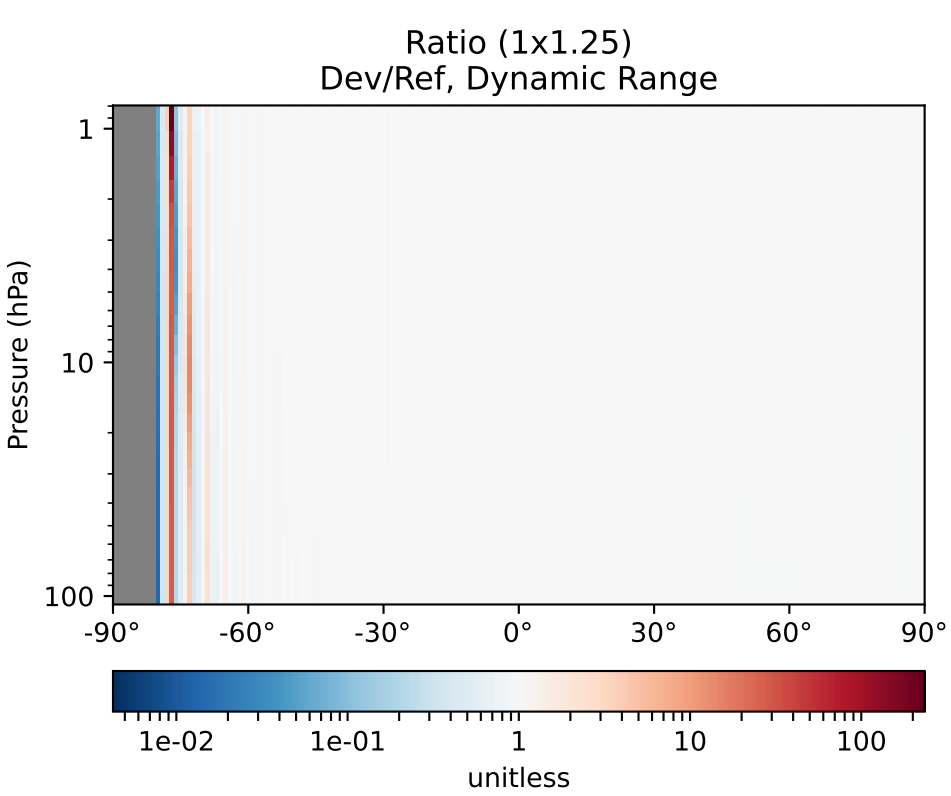


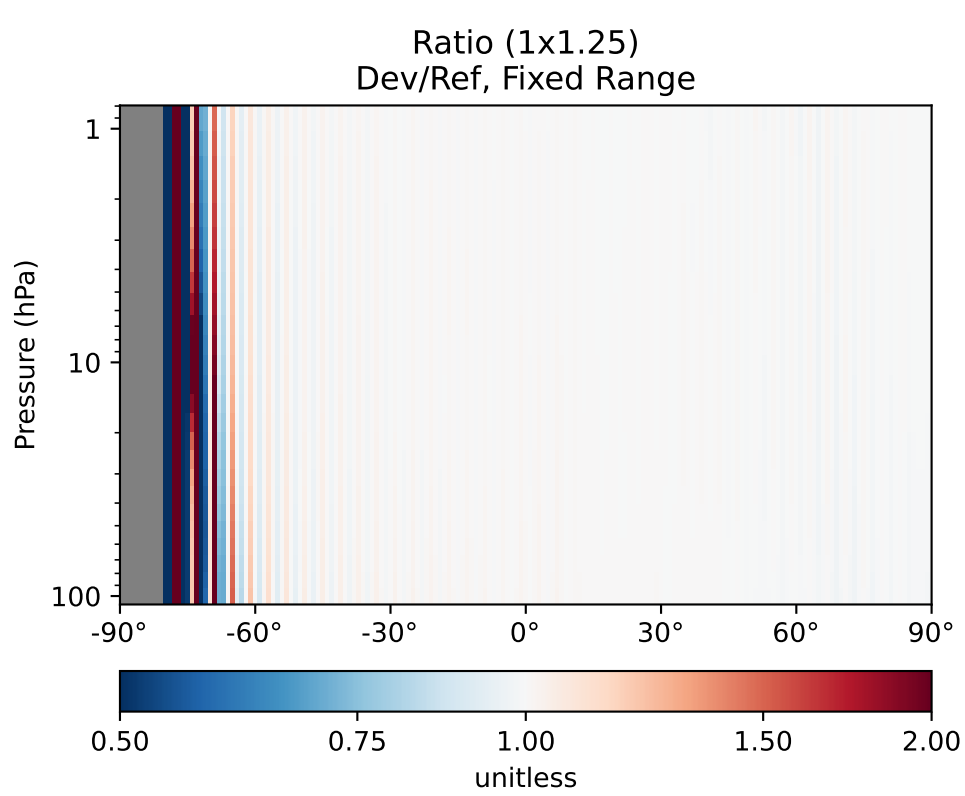


Jval_IDCHP, Zonal Mean

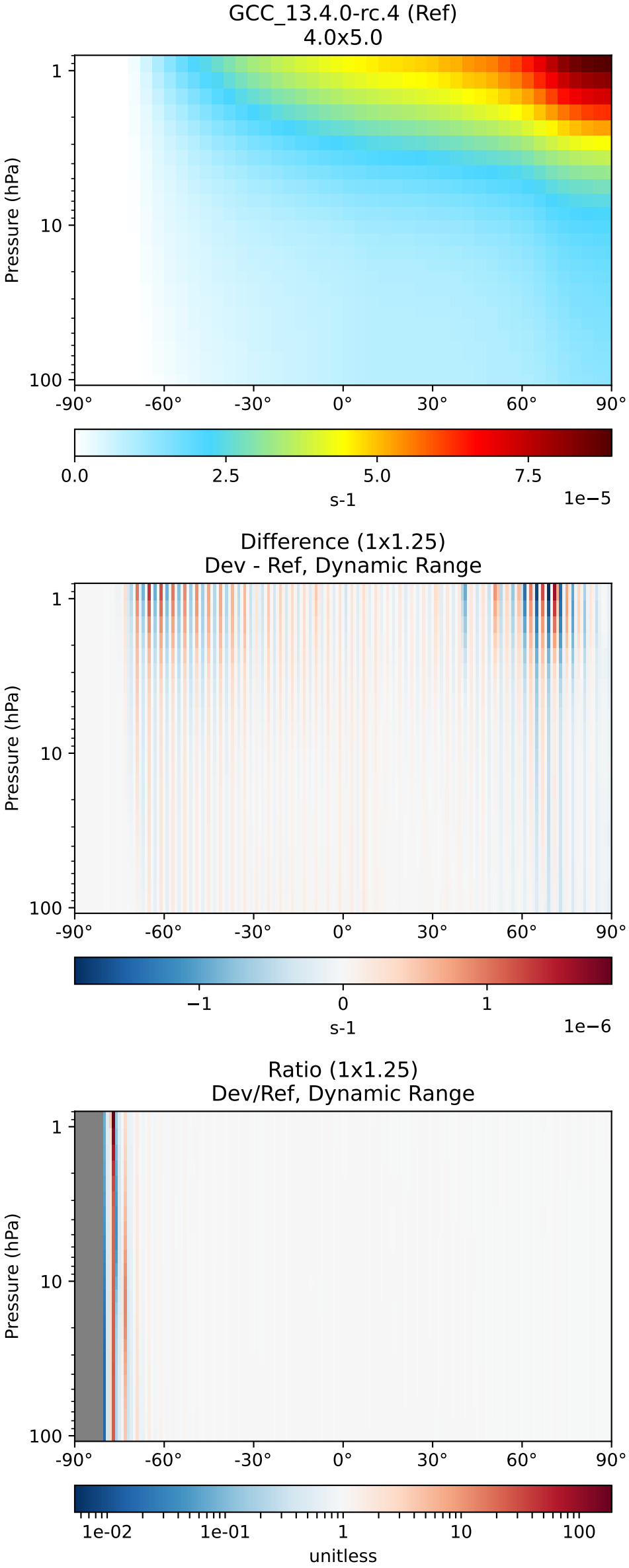


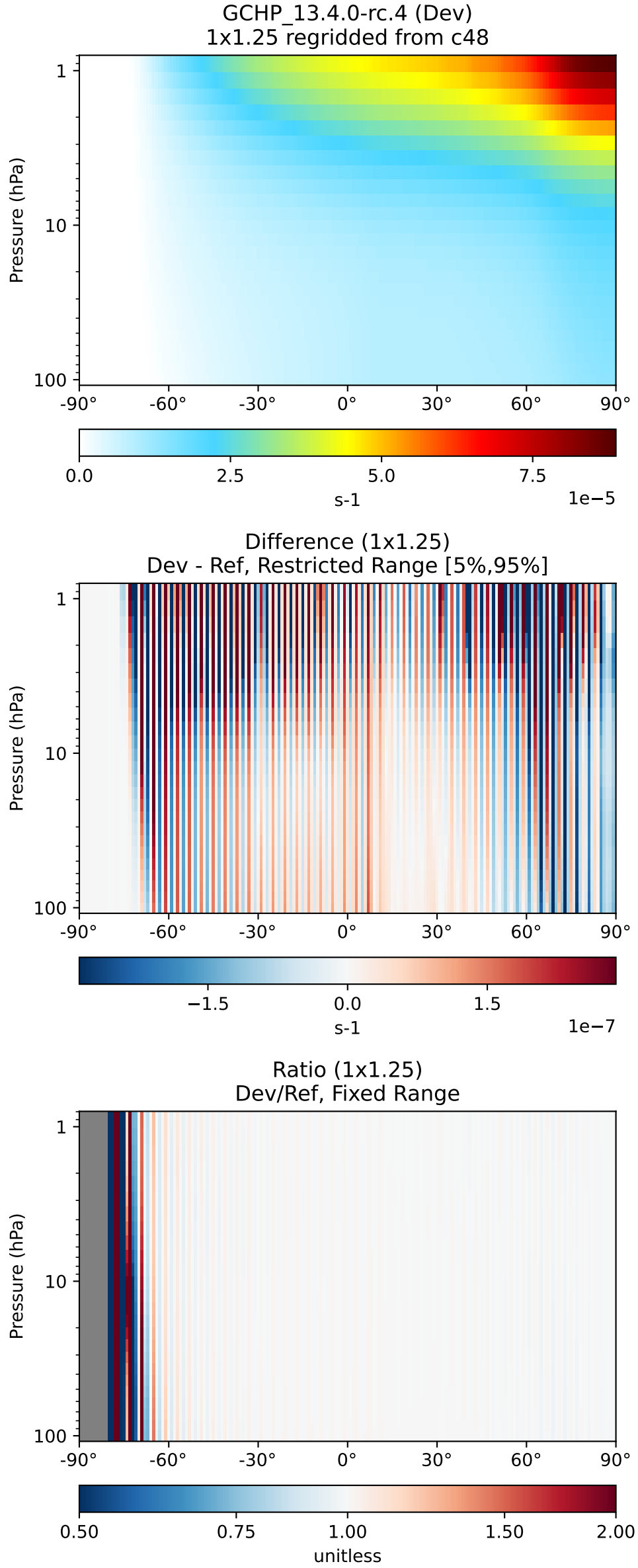




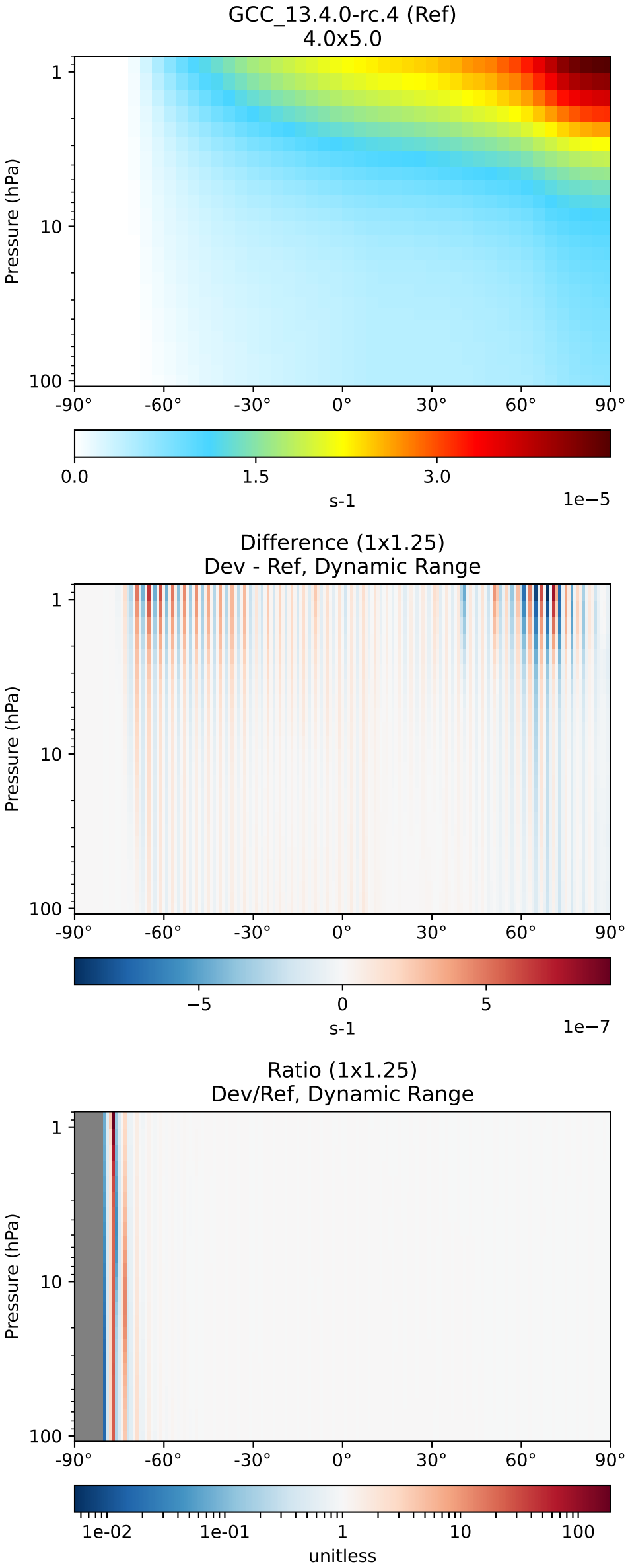


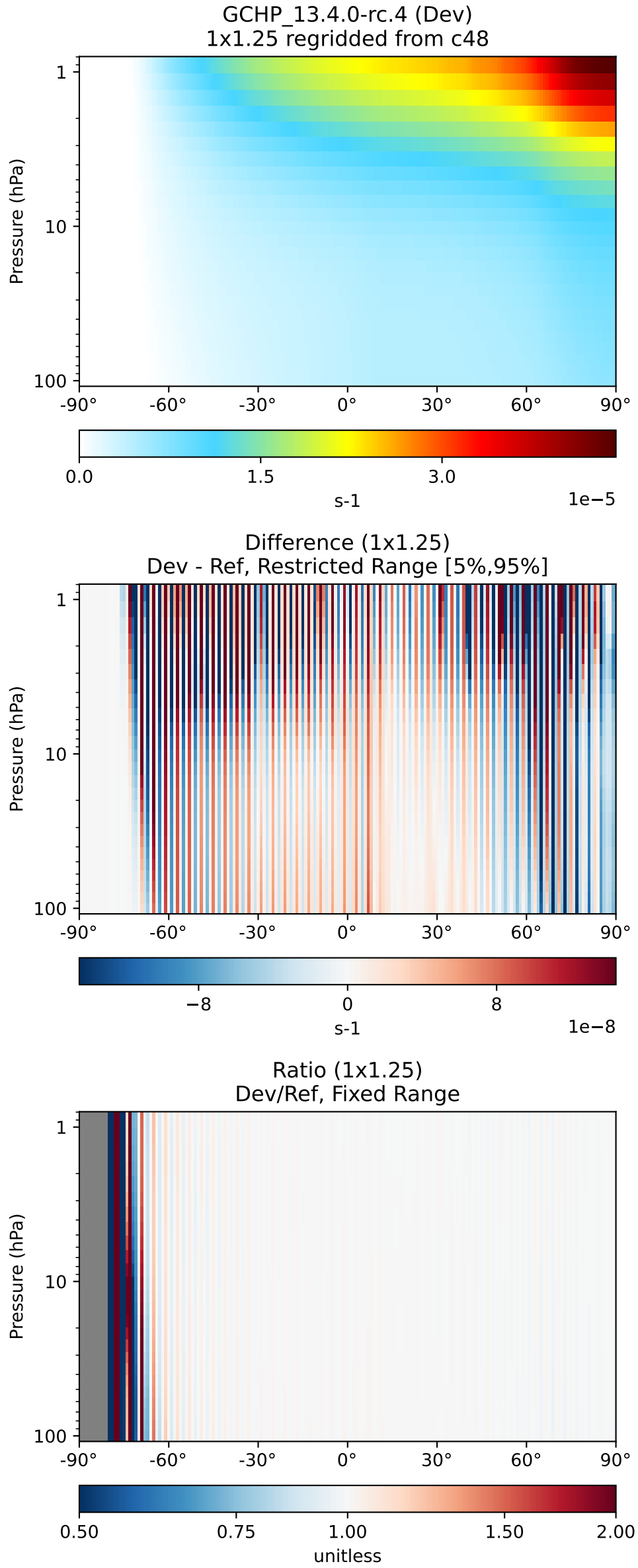
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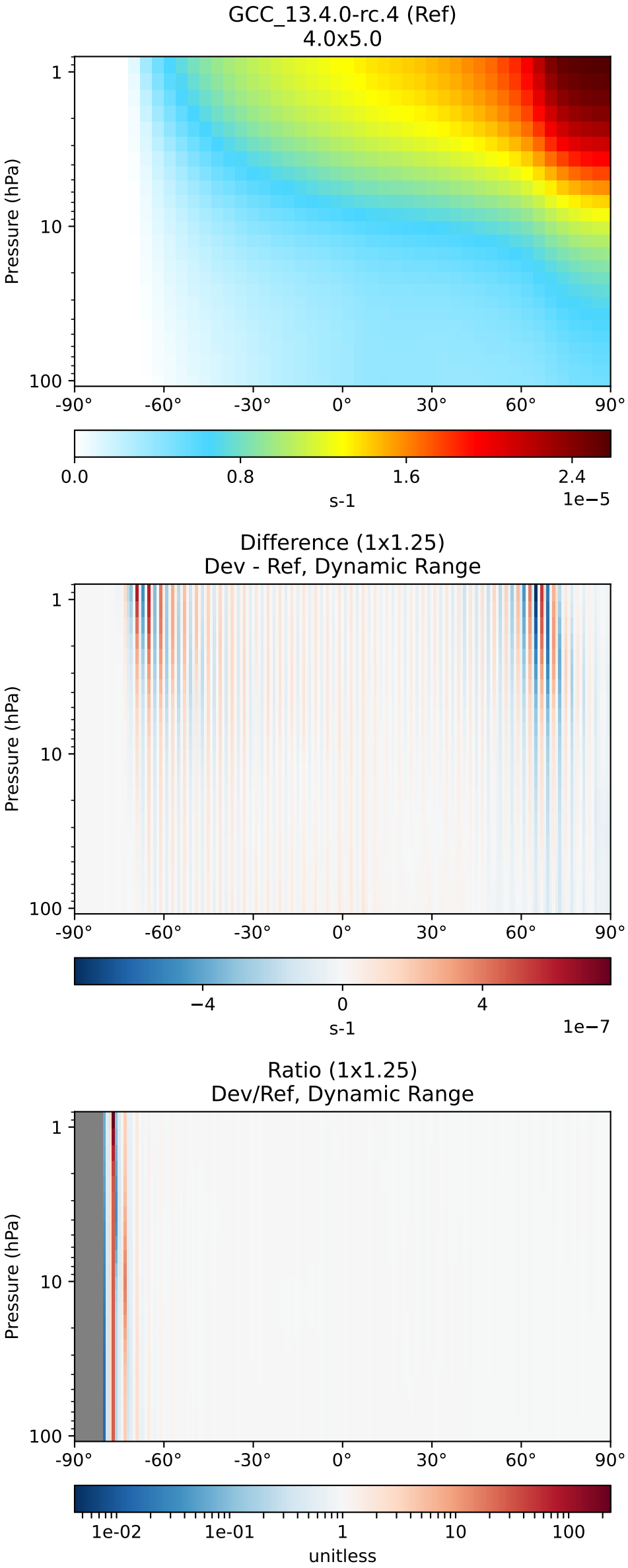


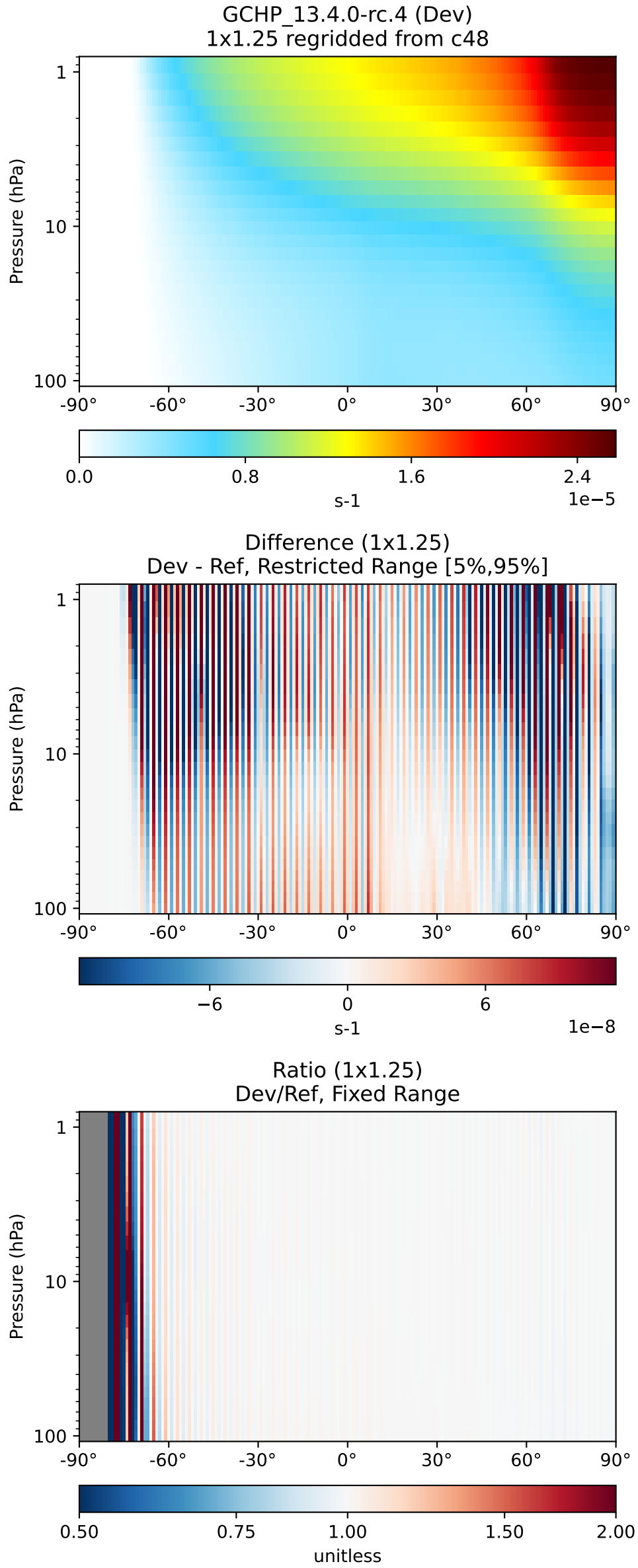
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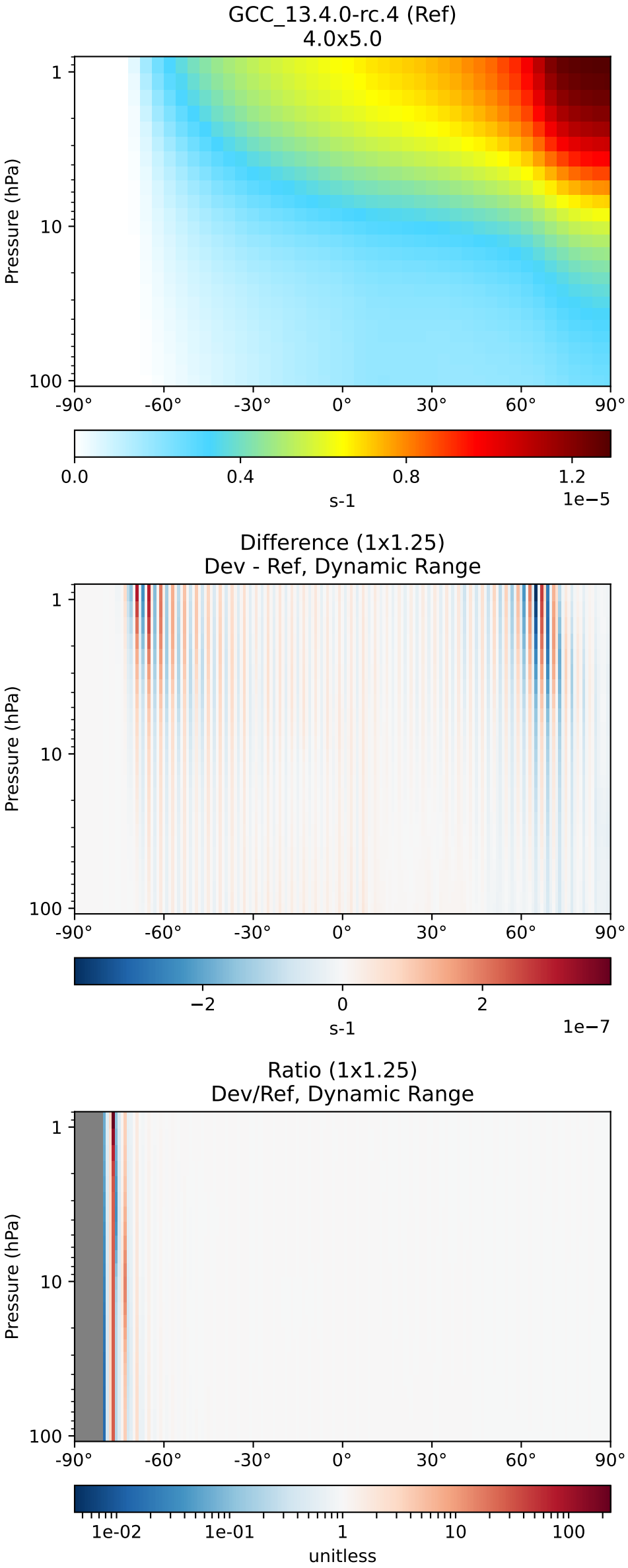


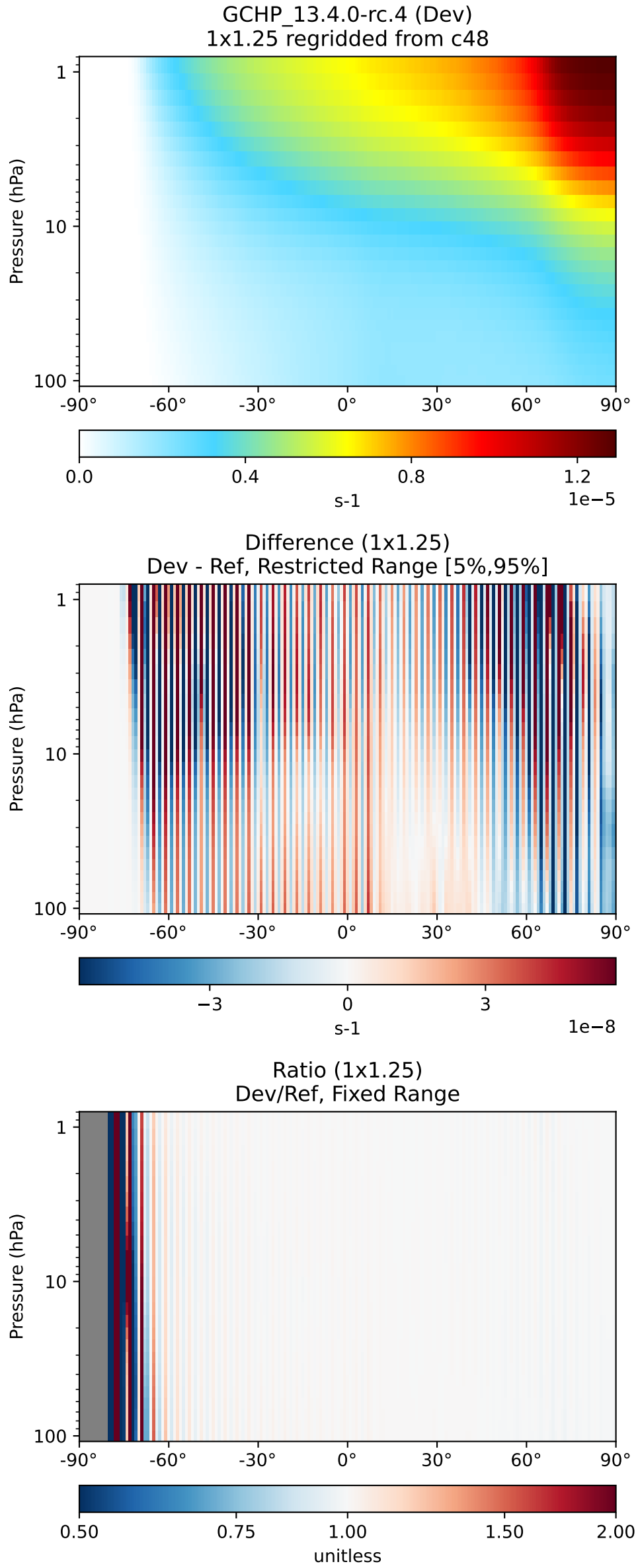
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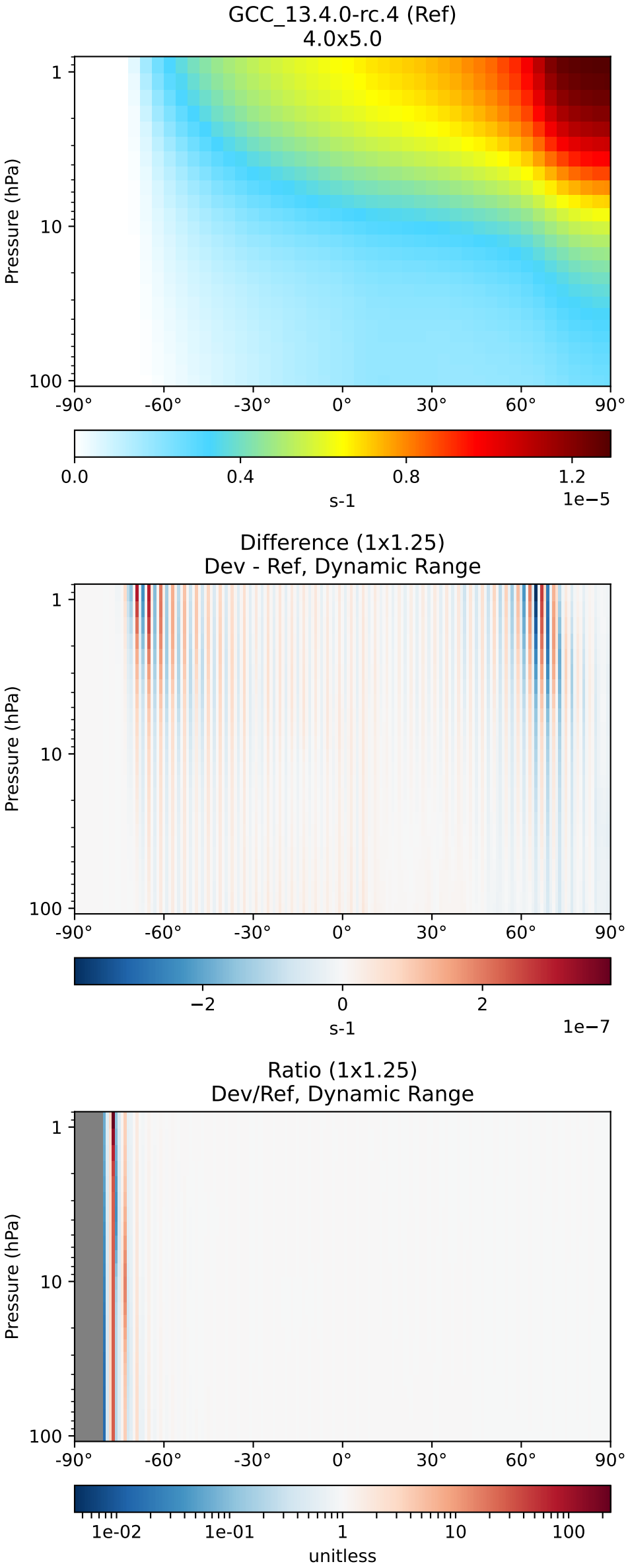


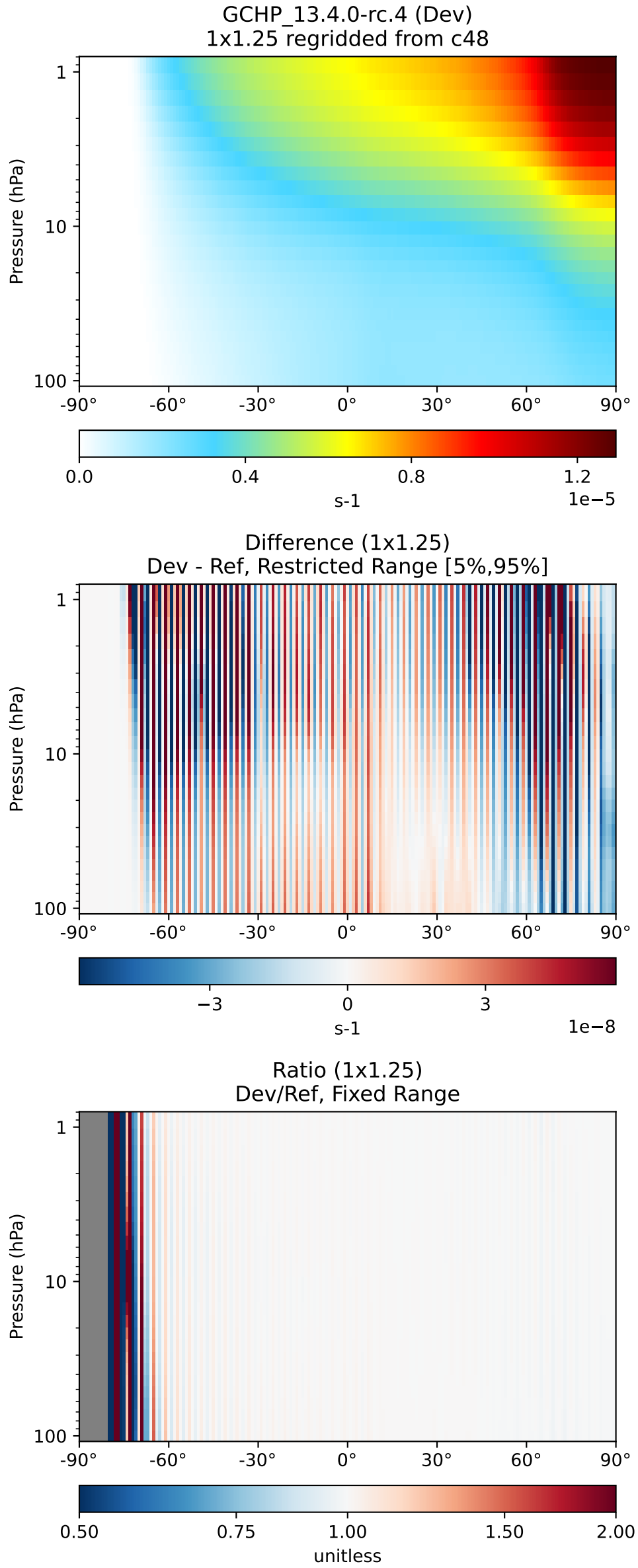
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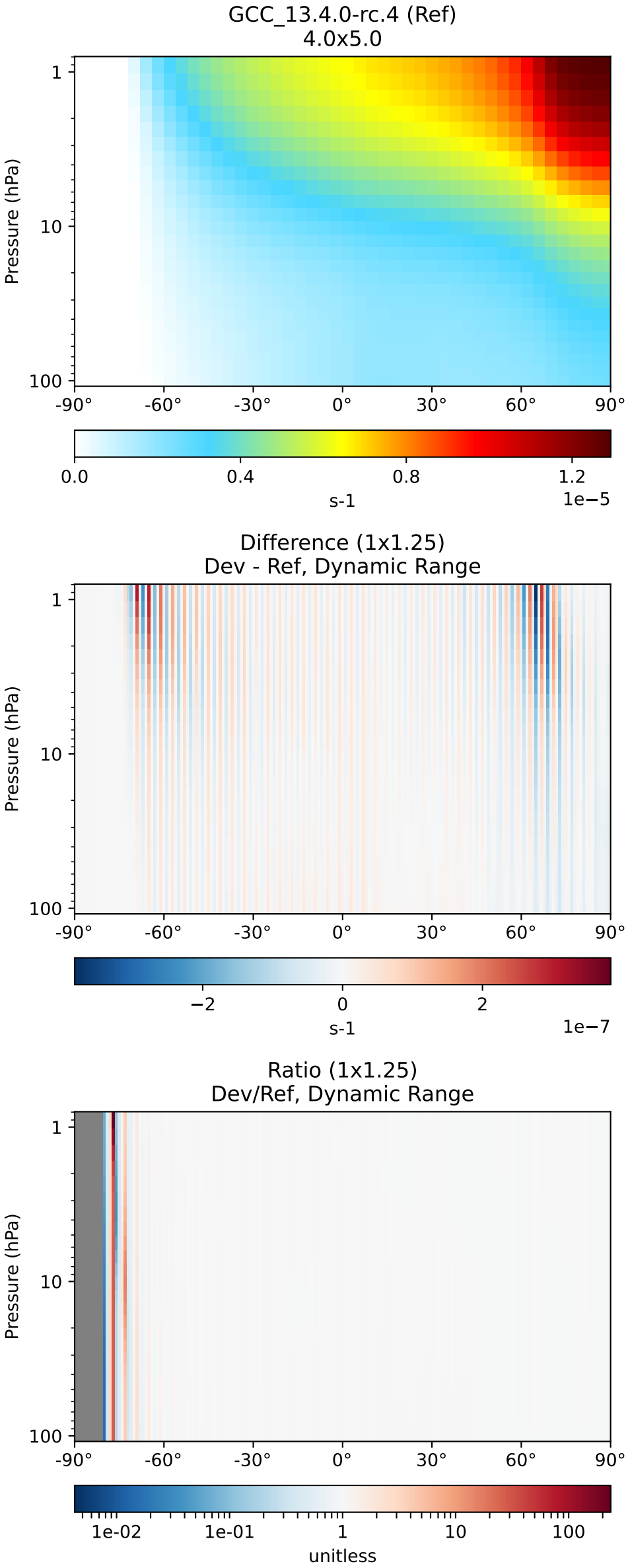


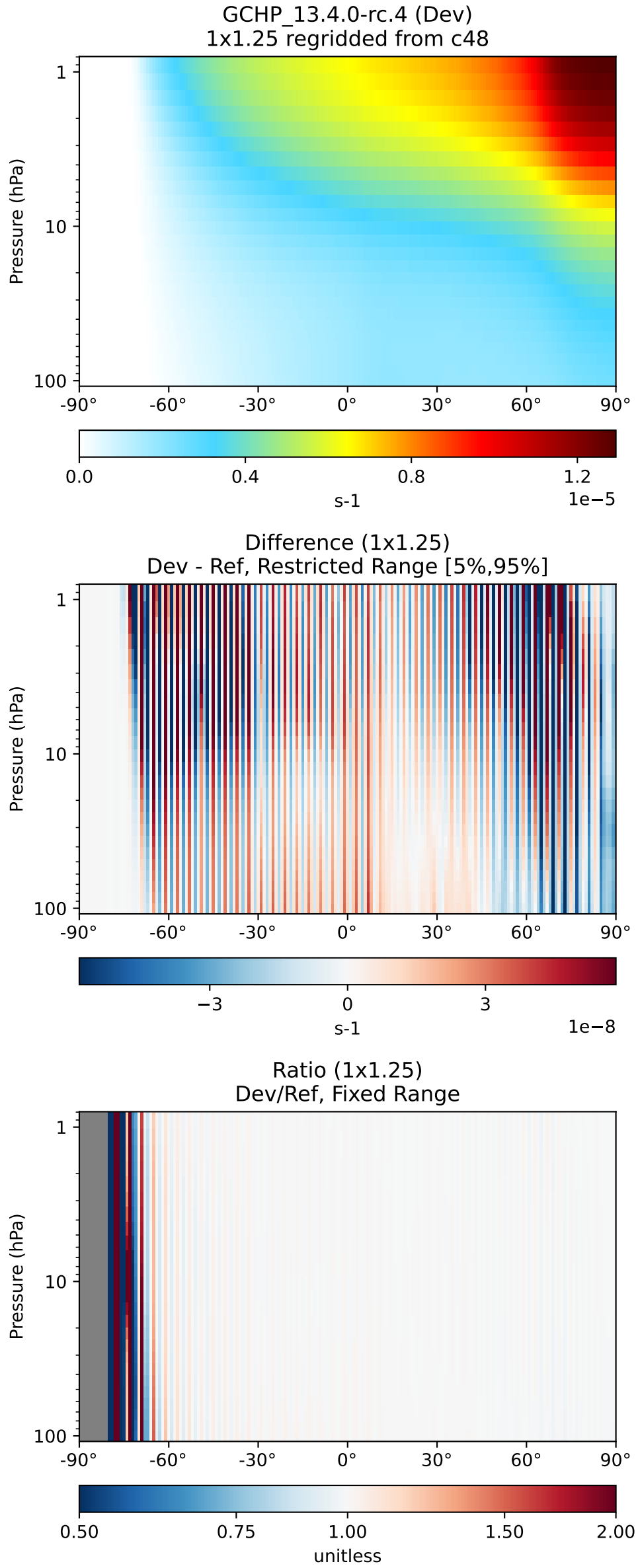
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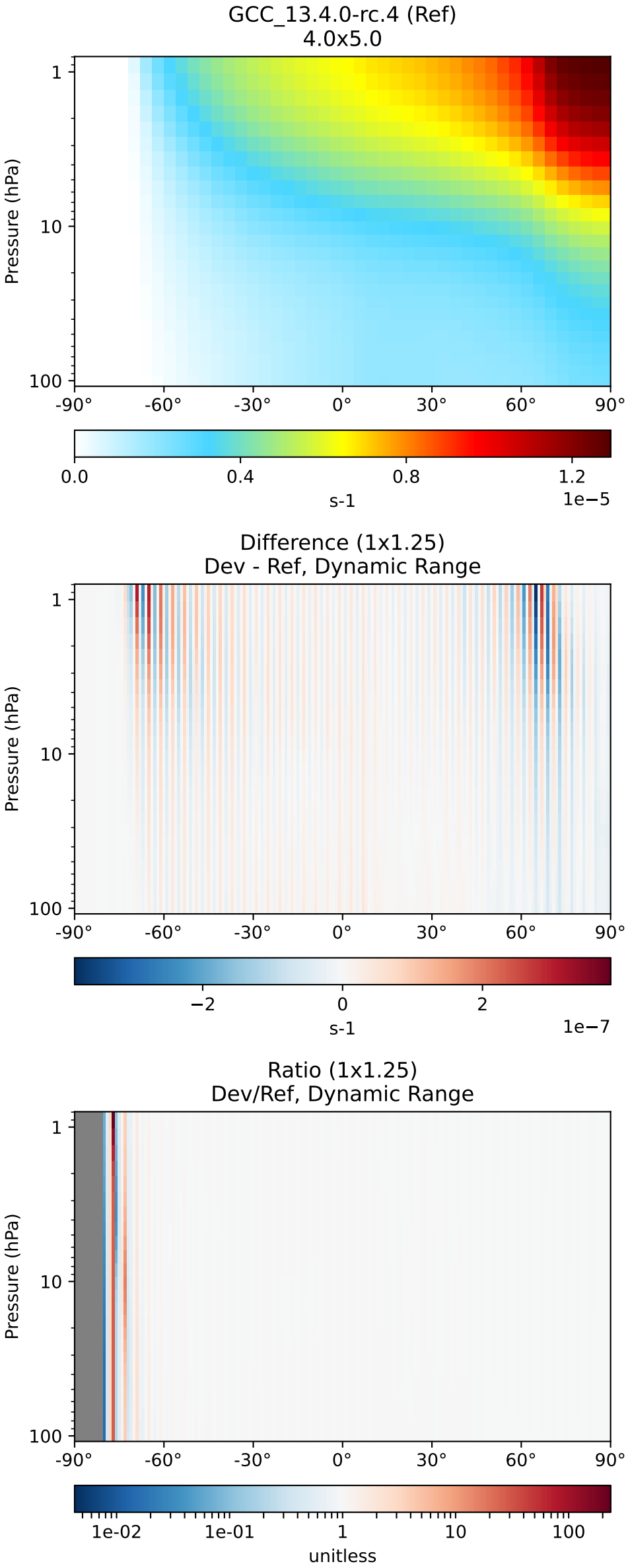


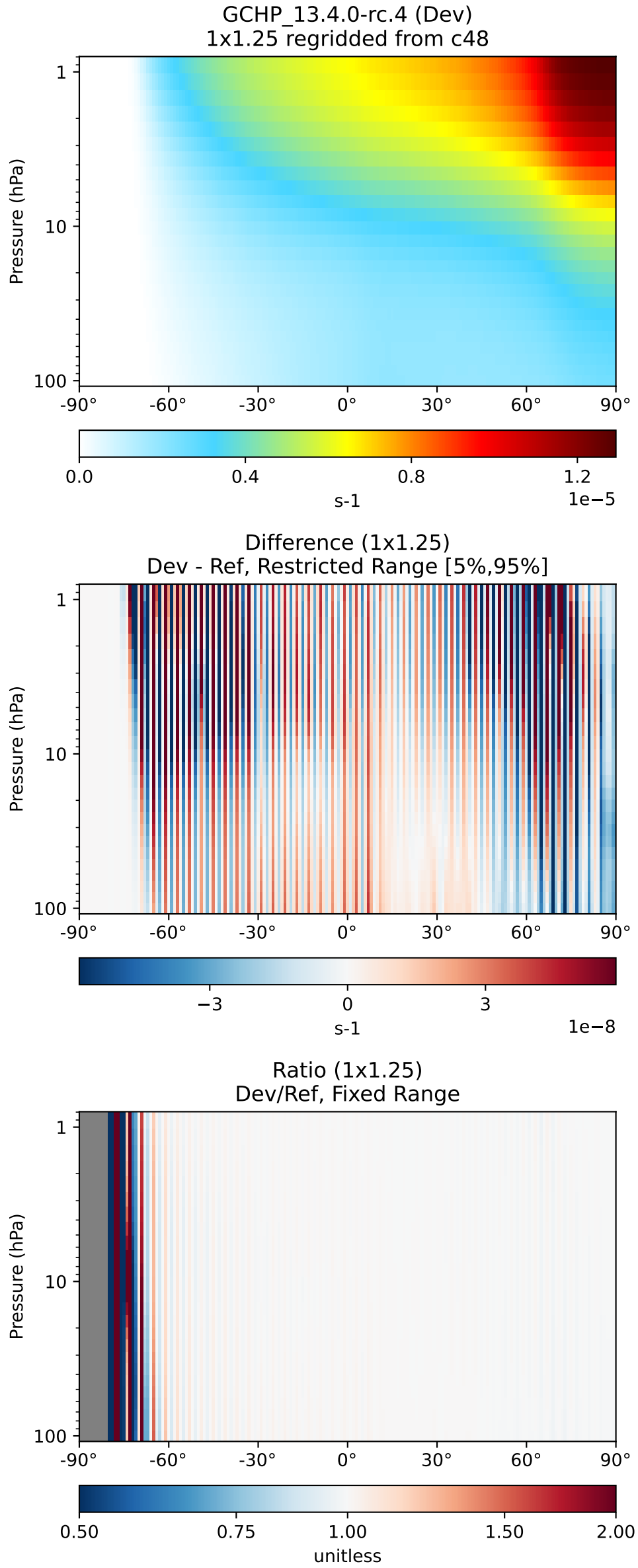
Jval_IHN3, Zonal Mean



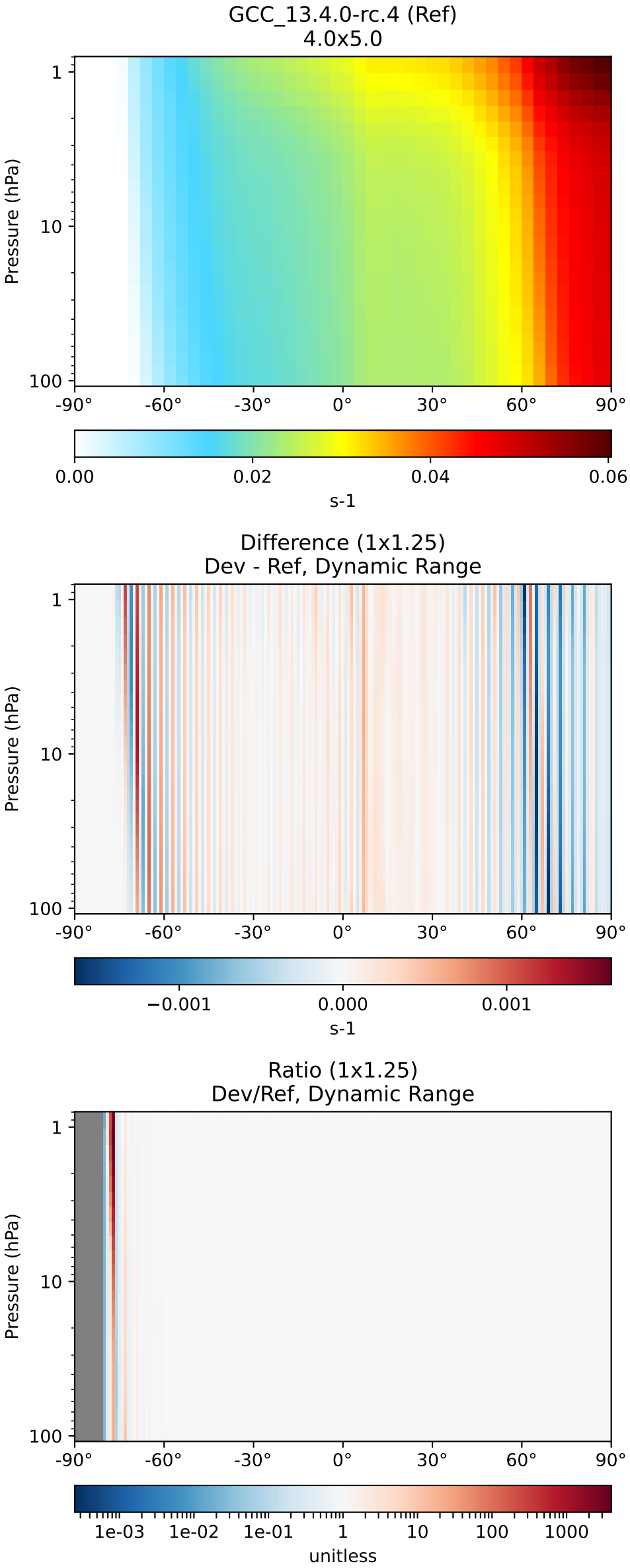


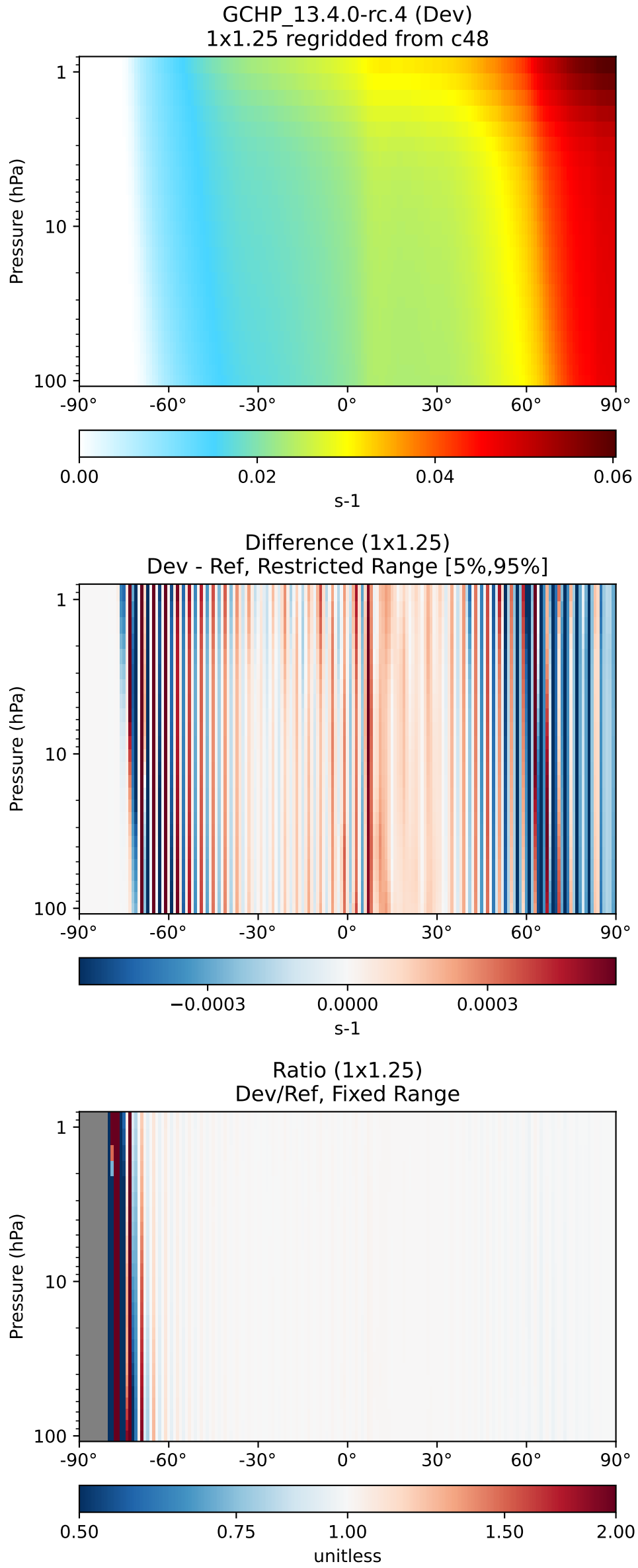
Jval_IHN4, Zonal Mean



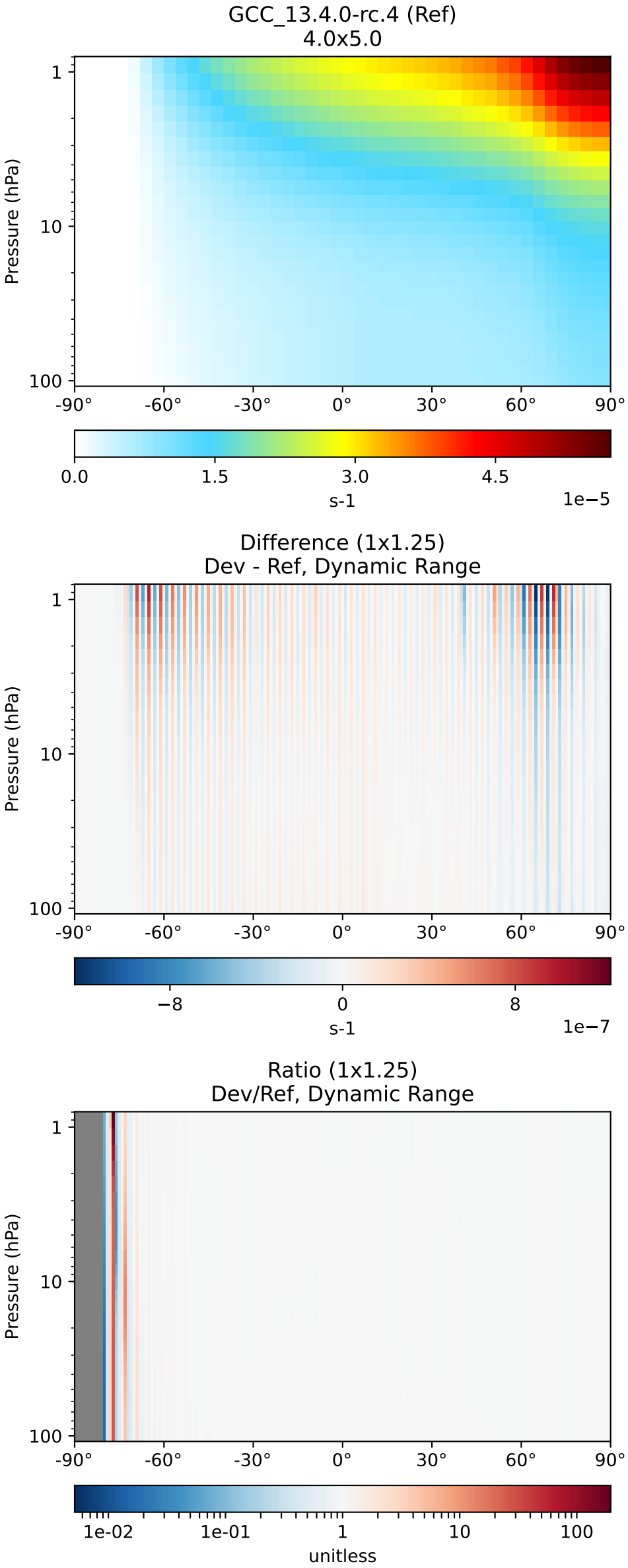


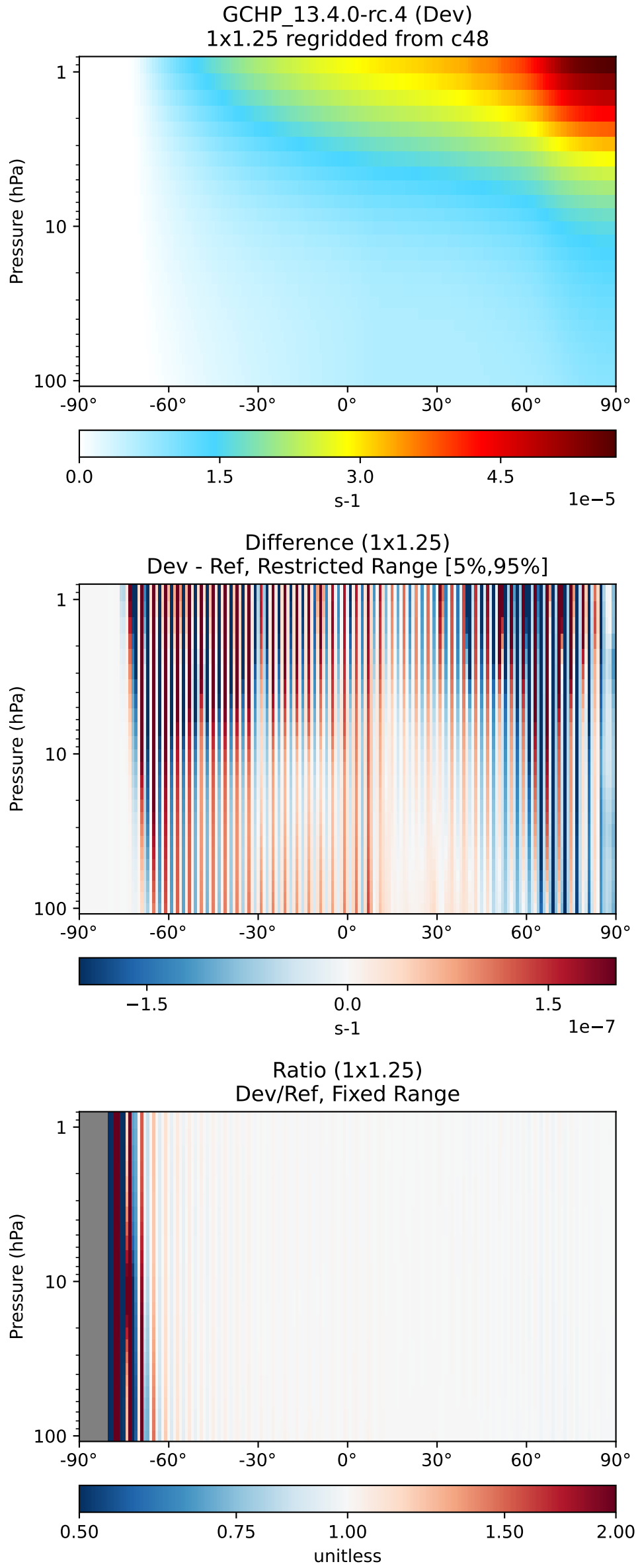
Jval_INO, Zonal Mean



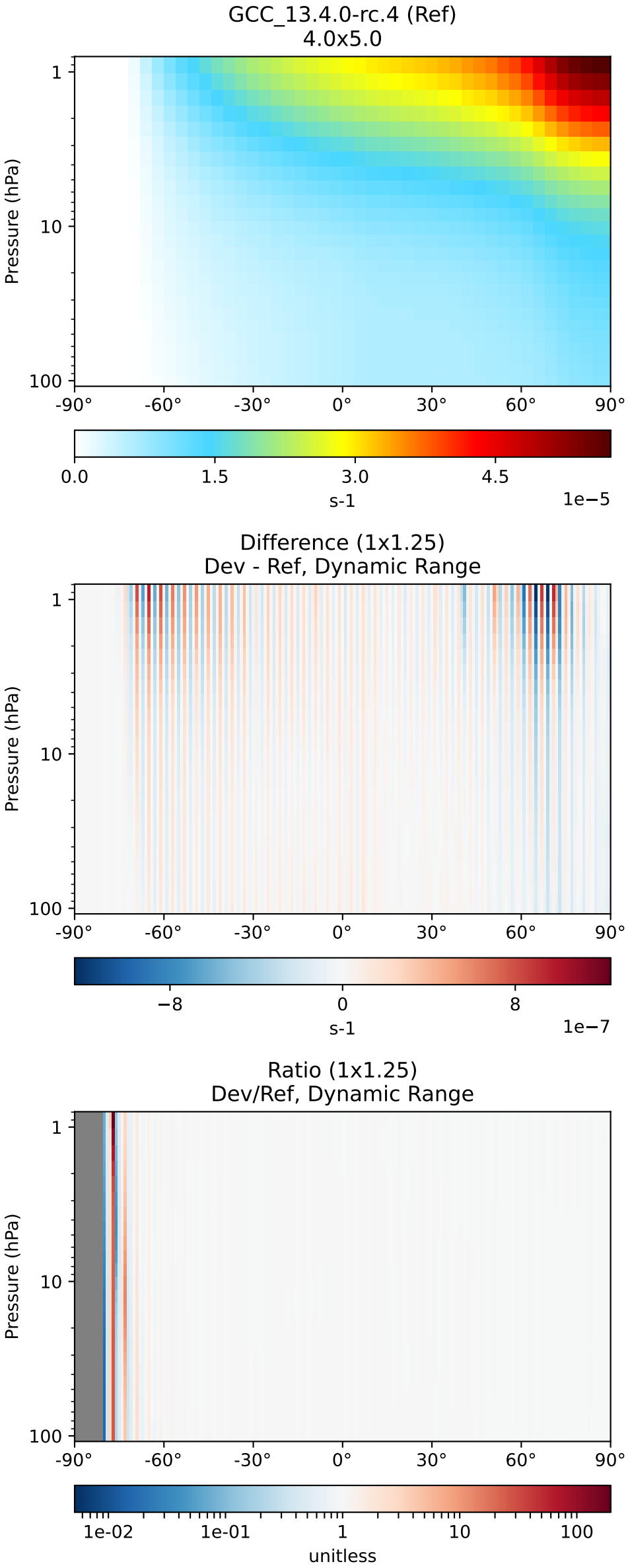


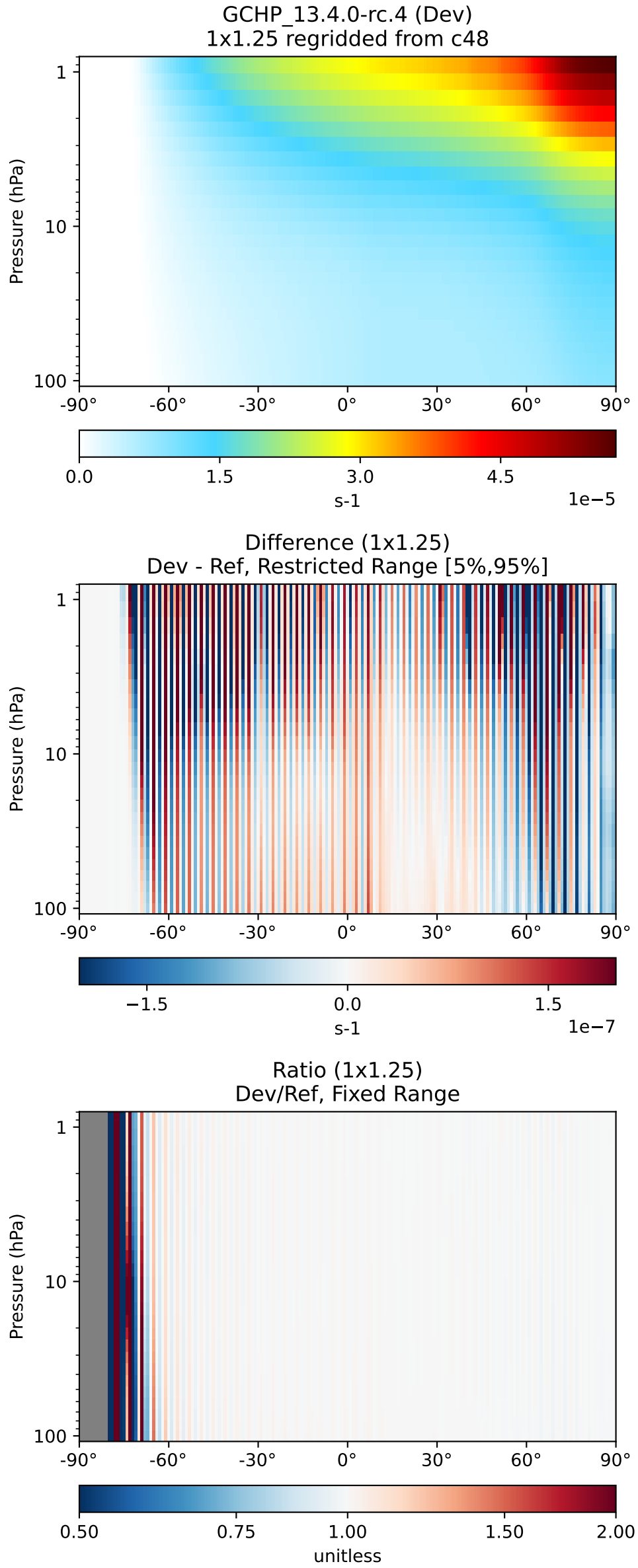
Jval_INPB, Zonal Mean



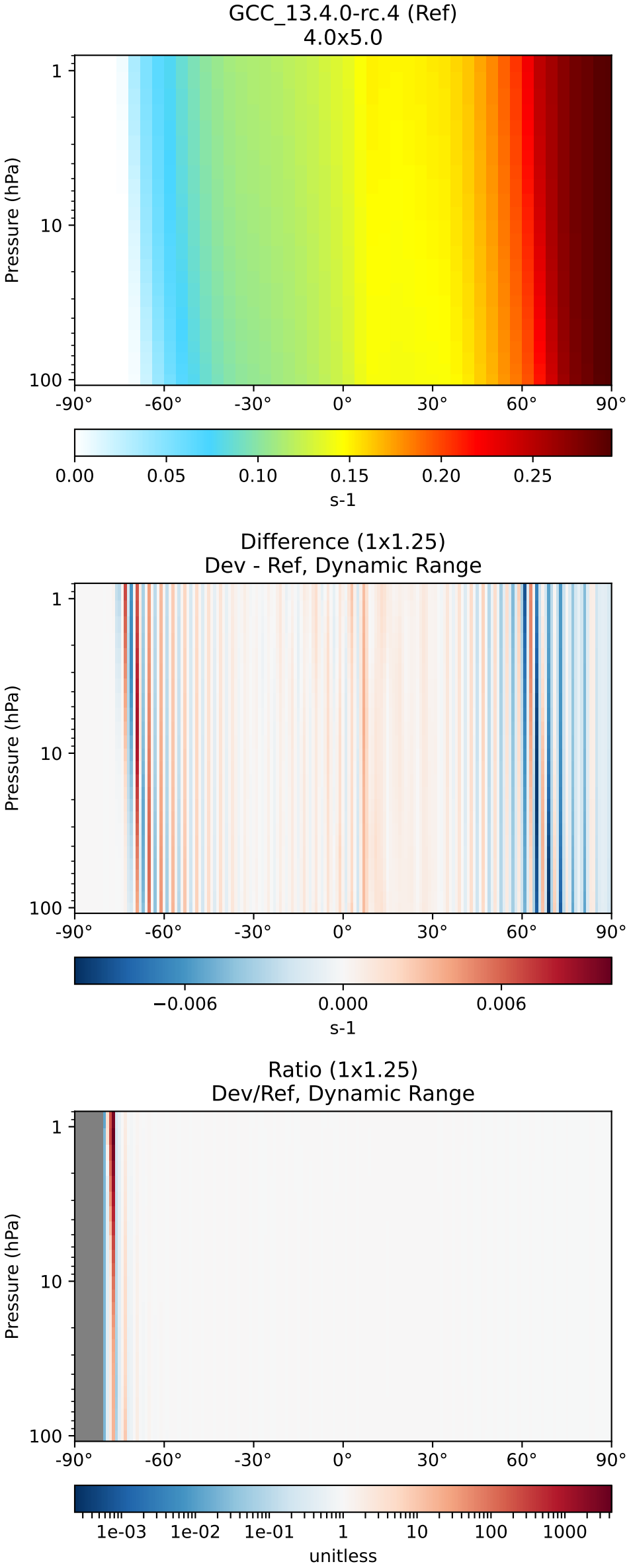


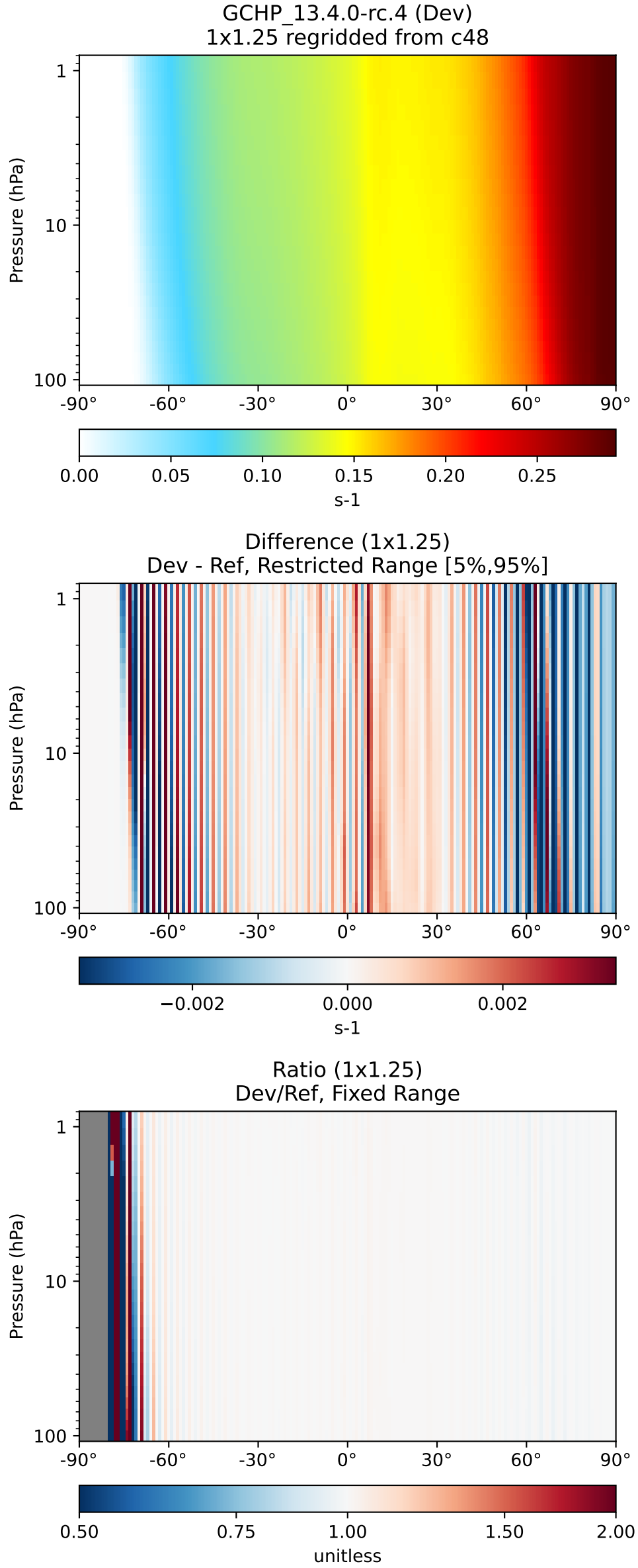
Jval_INPD, Zonal Mean



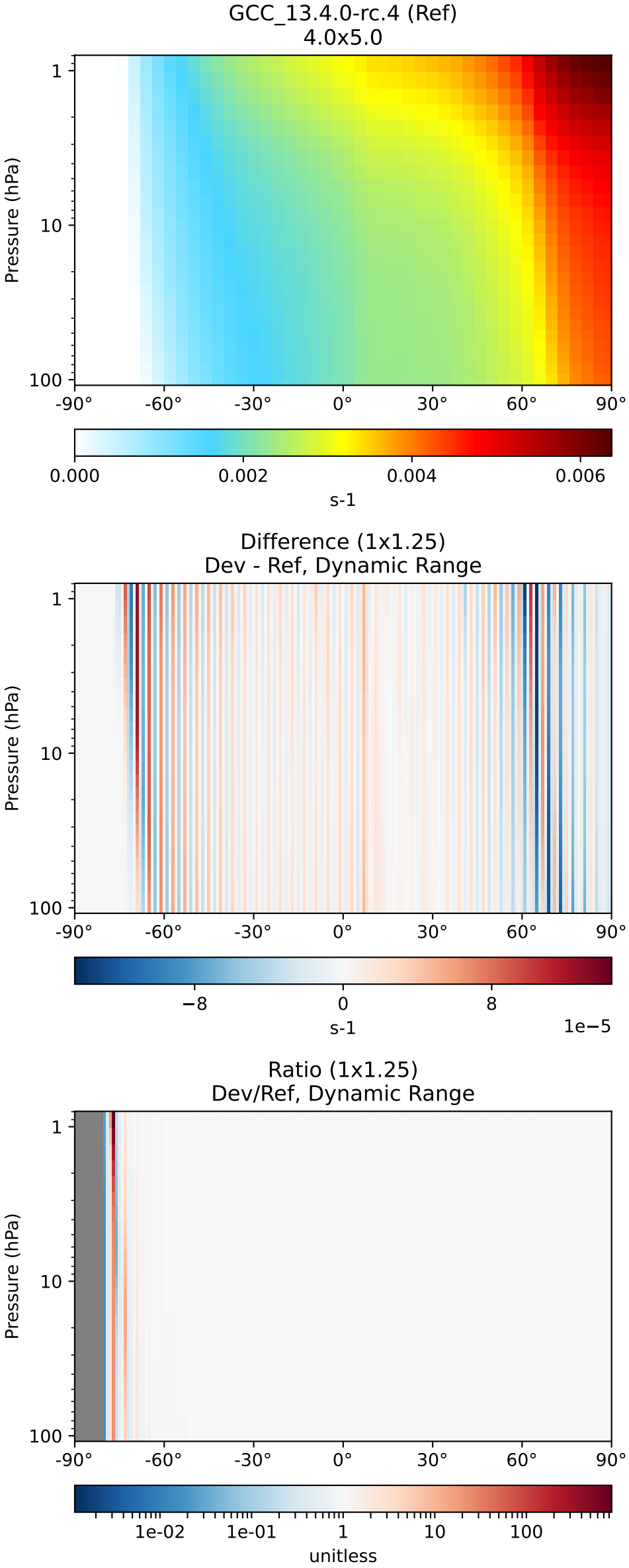


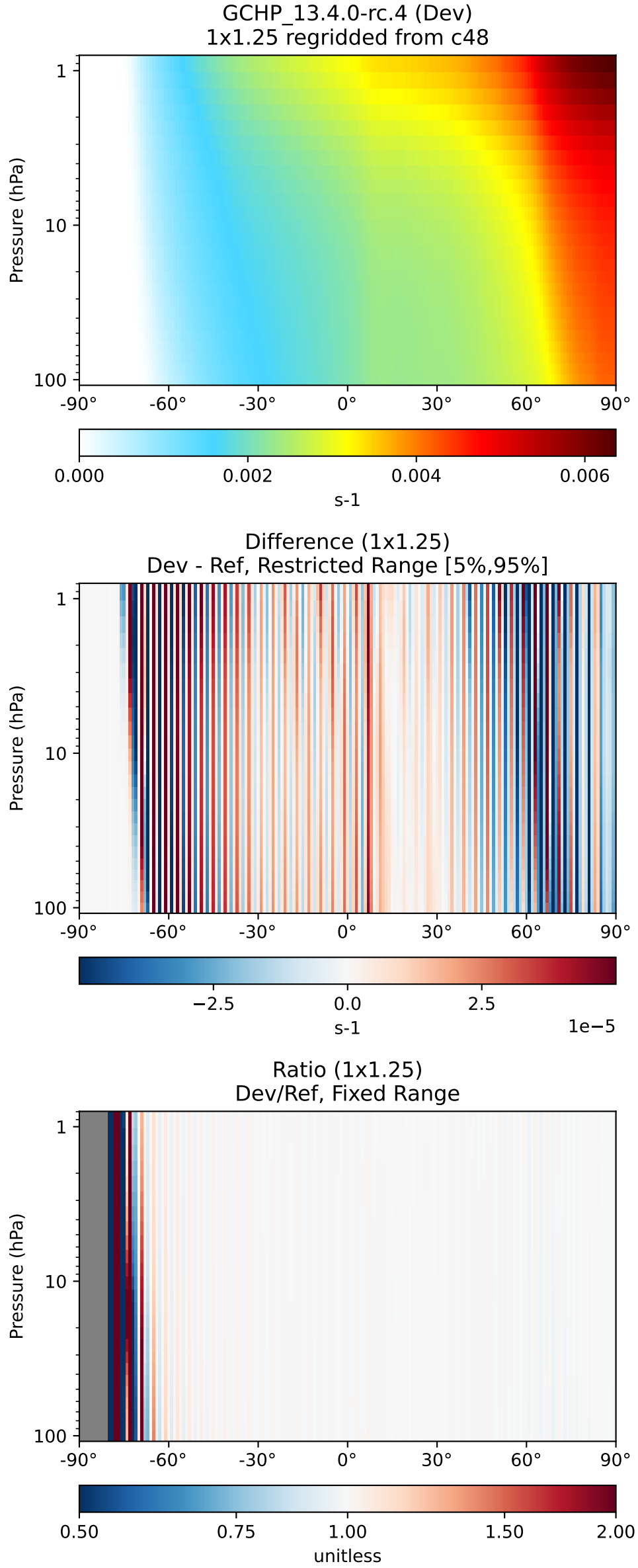
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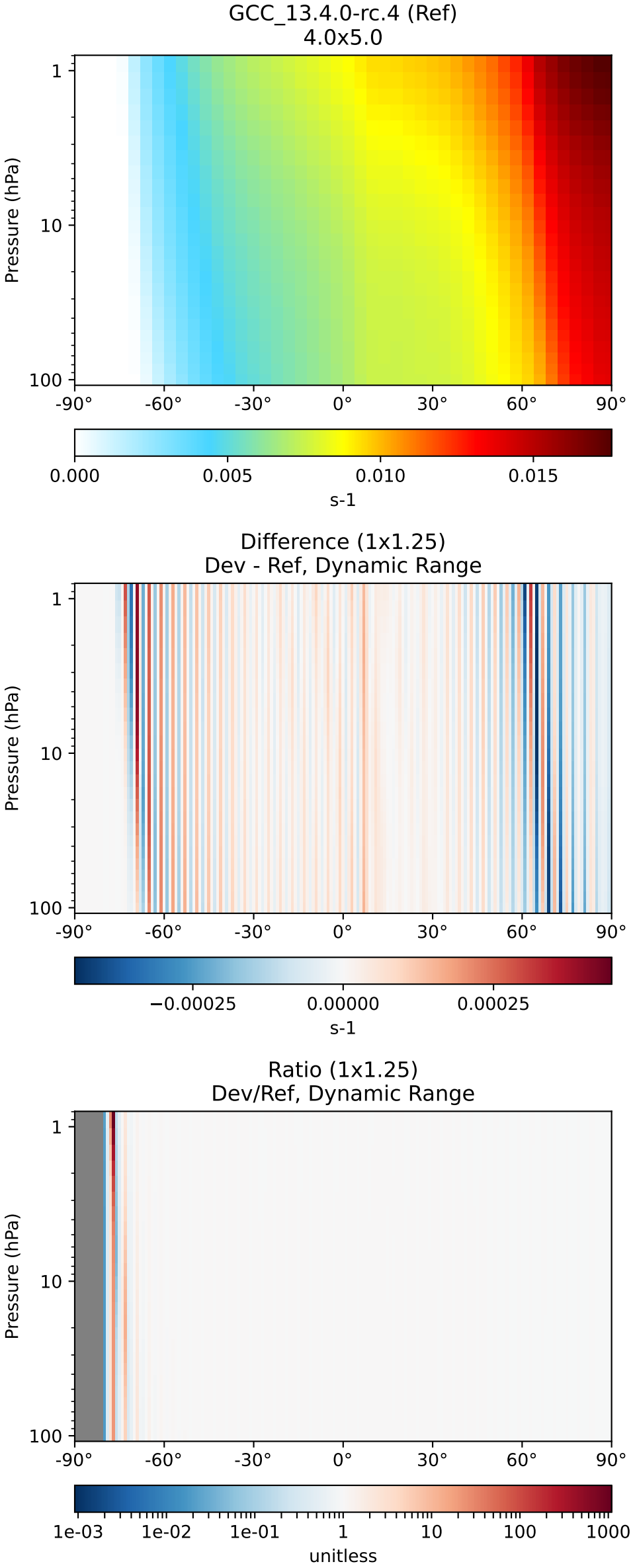


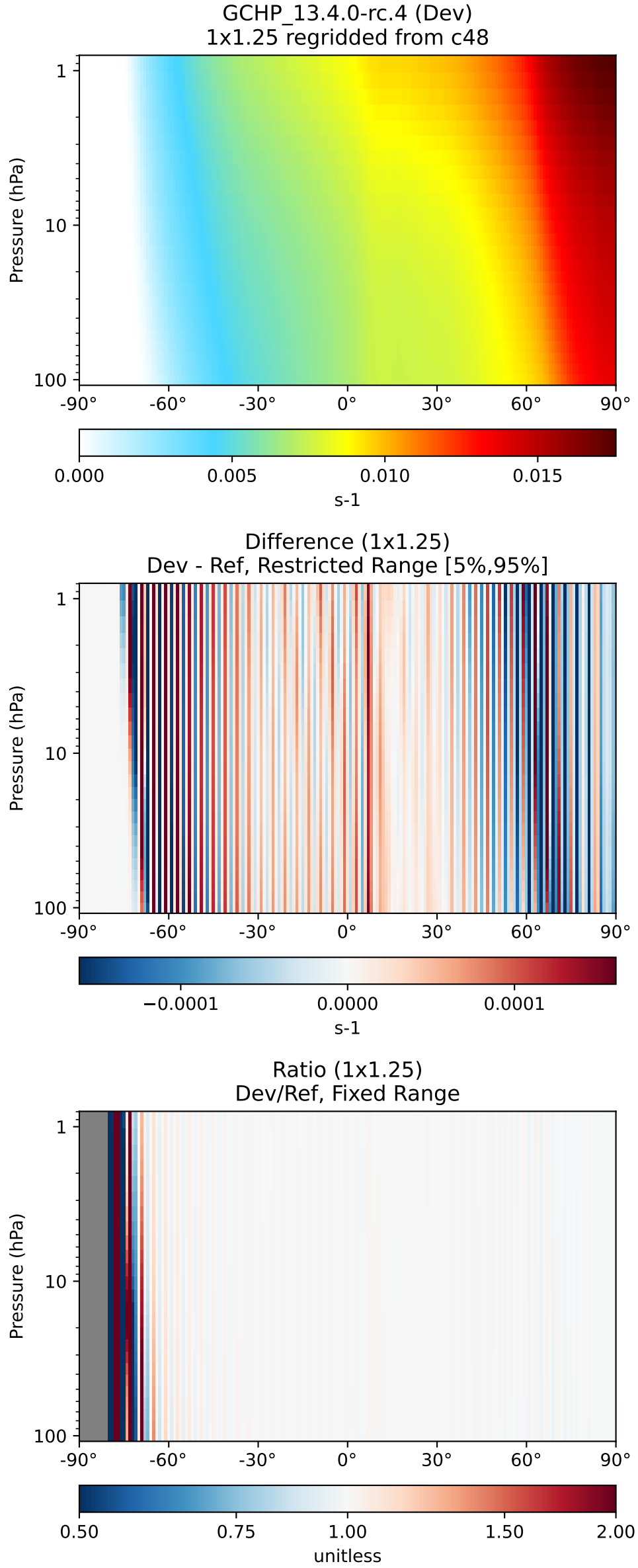
Jval_IONO, Zonal Mean



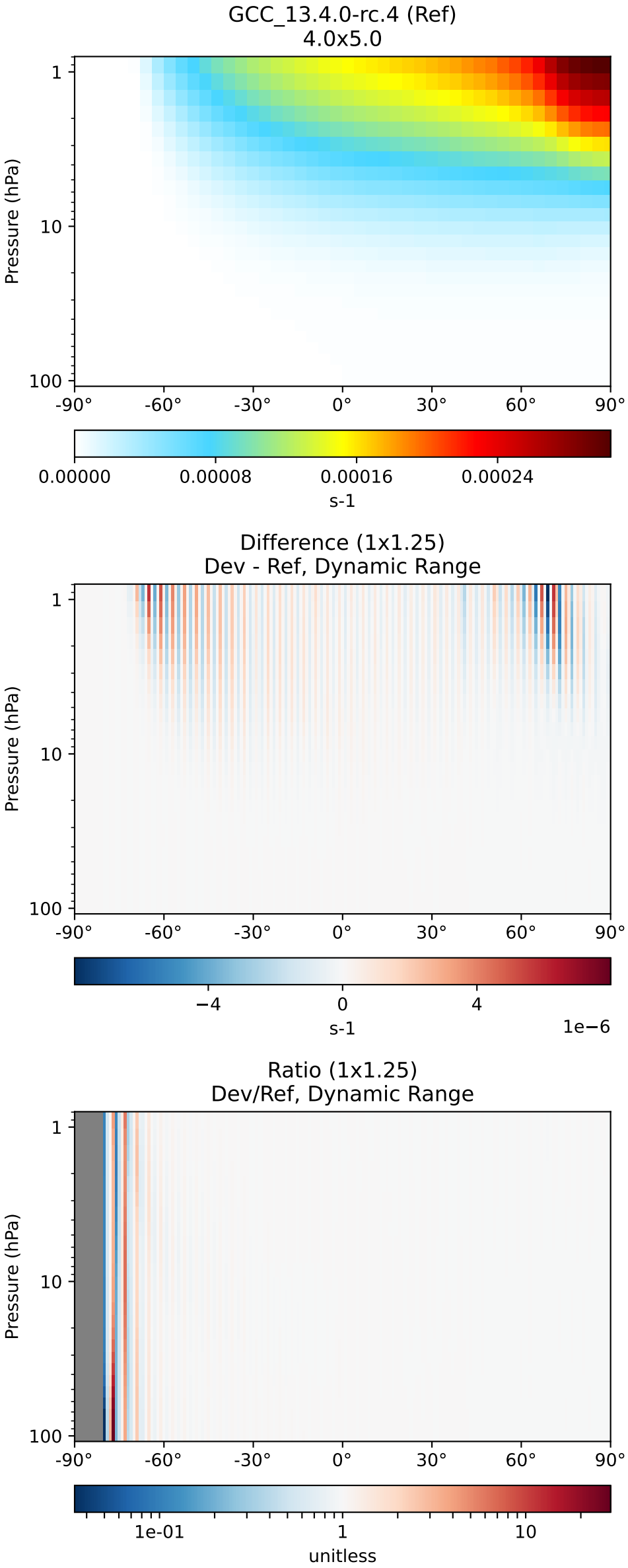


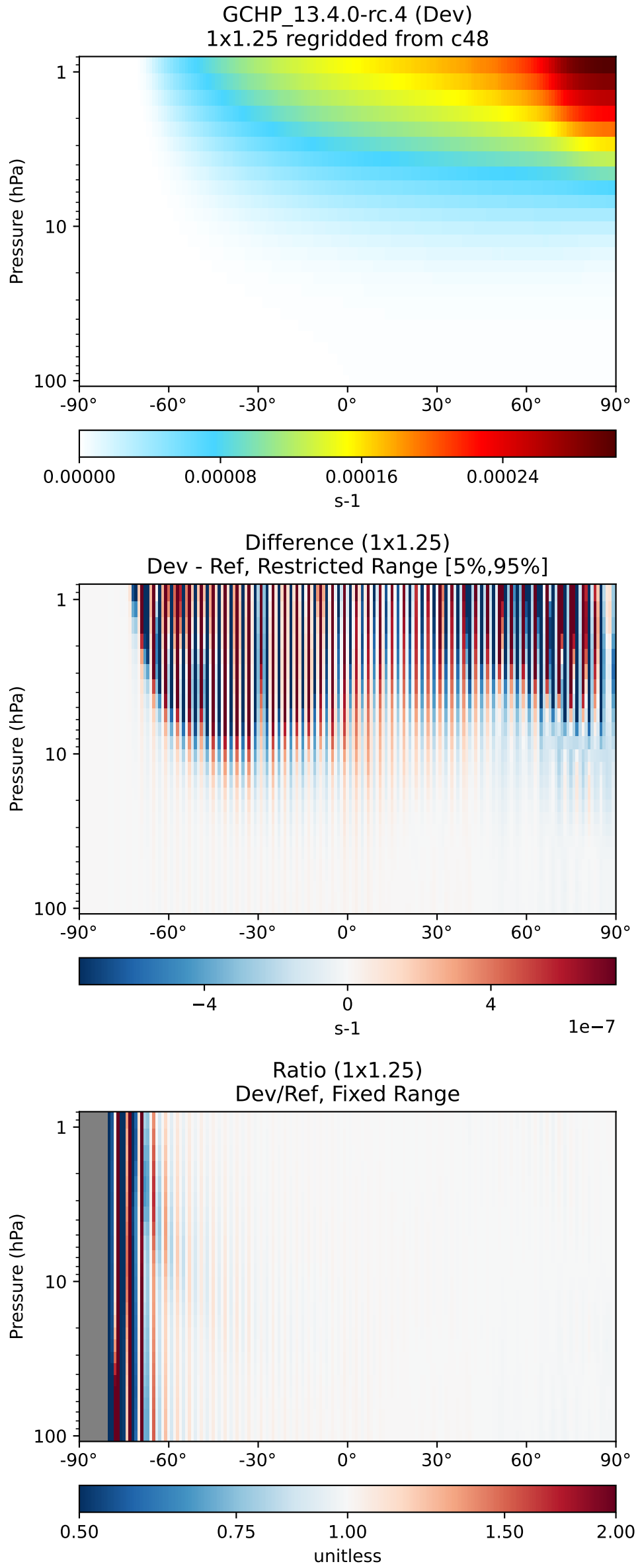
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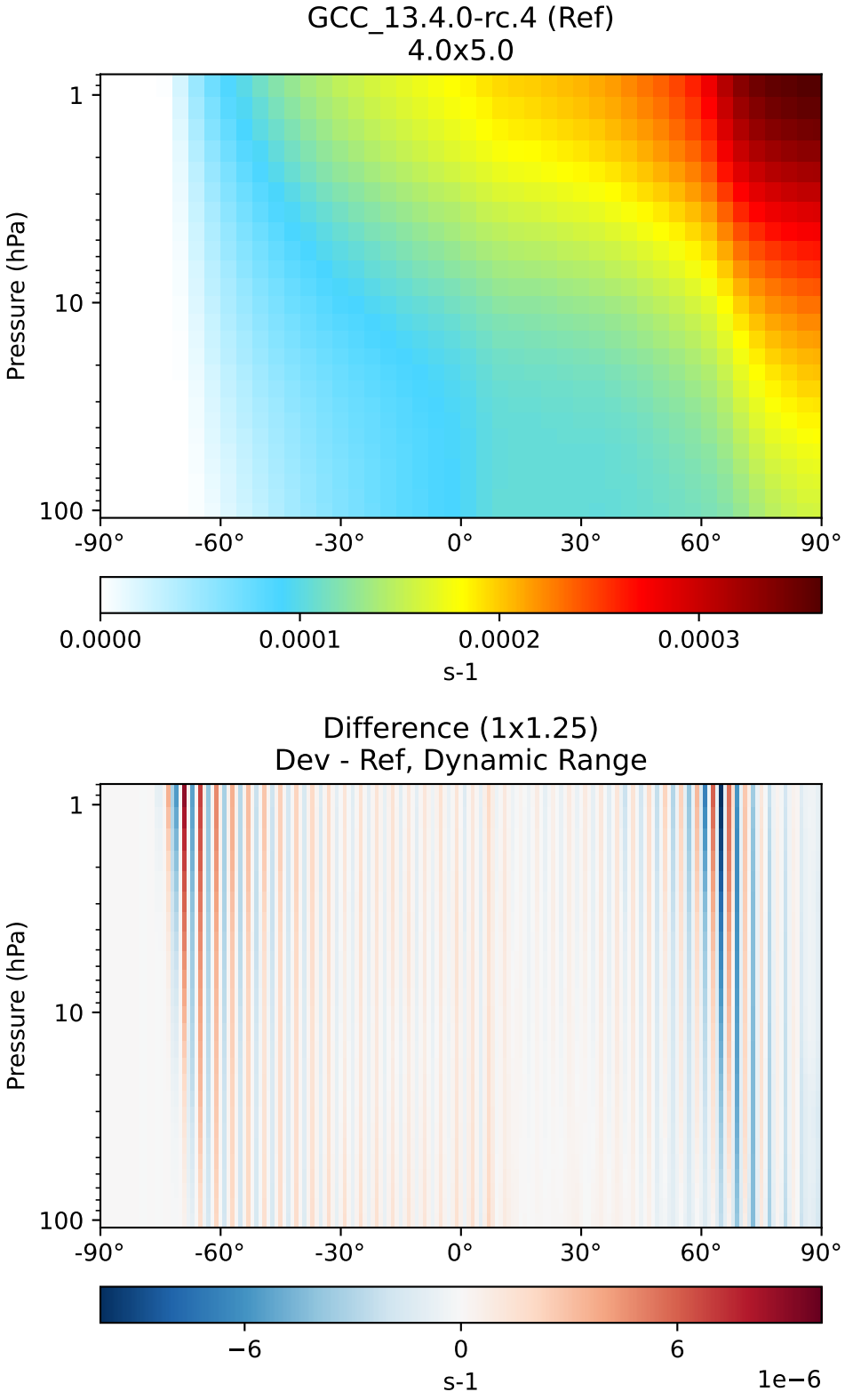


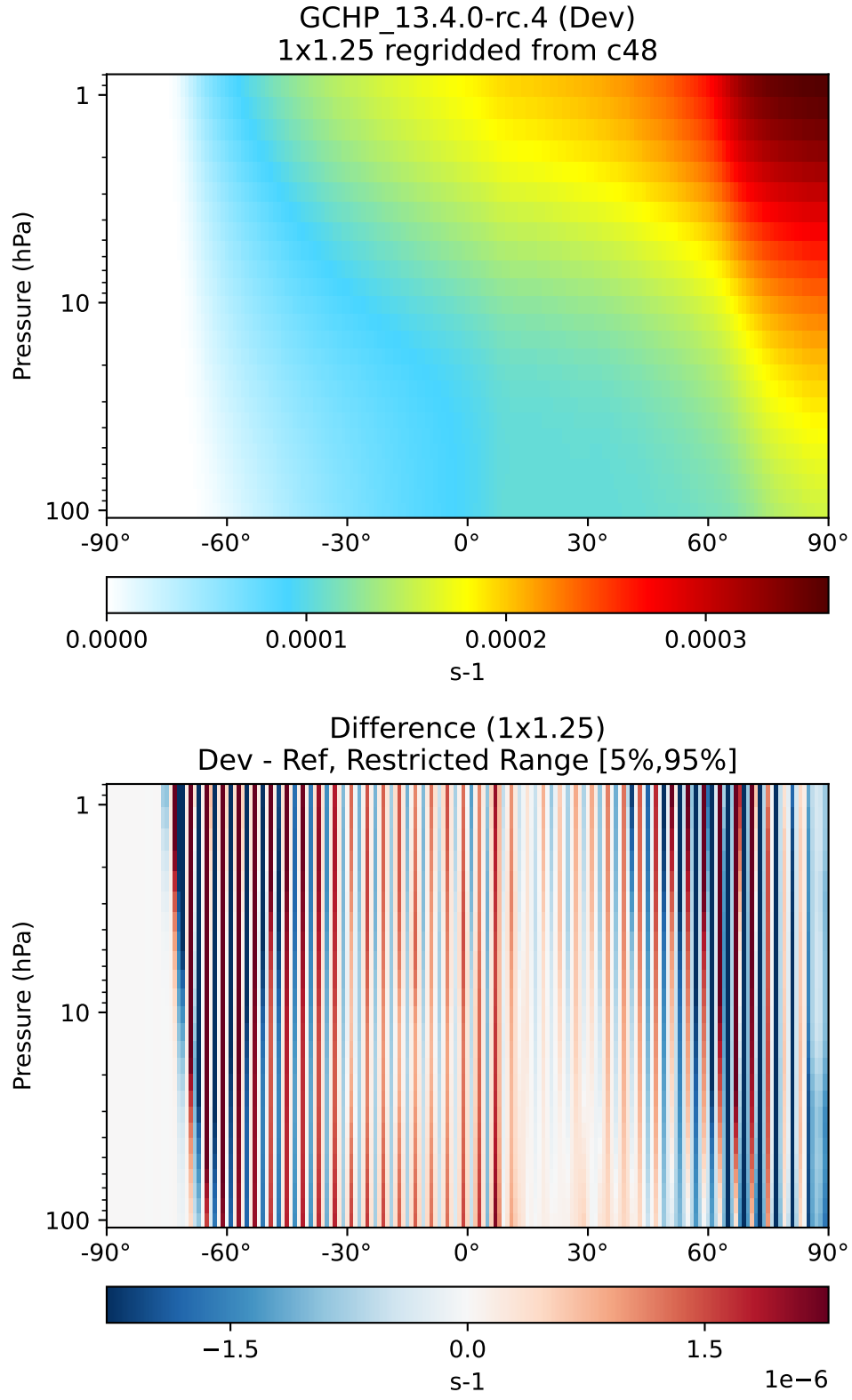
Jval_IPRNO3, Zonal Mean



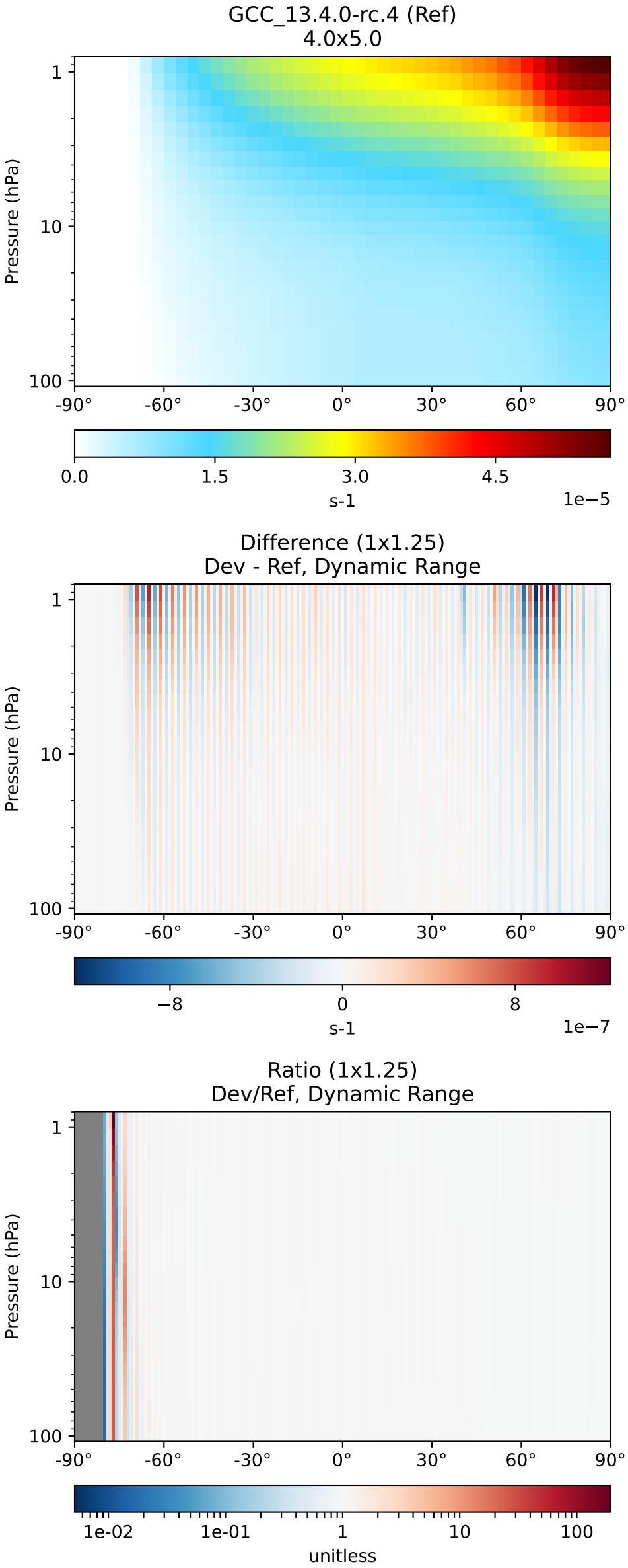


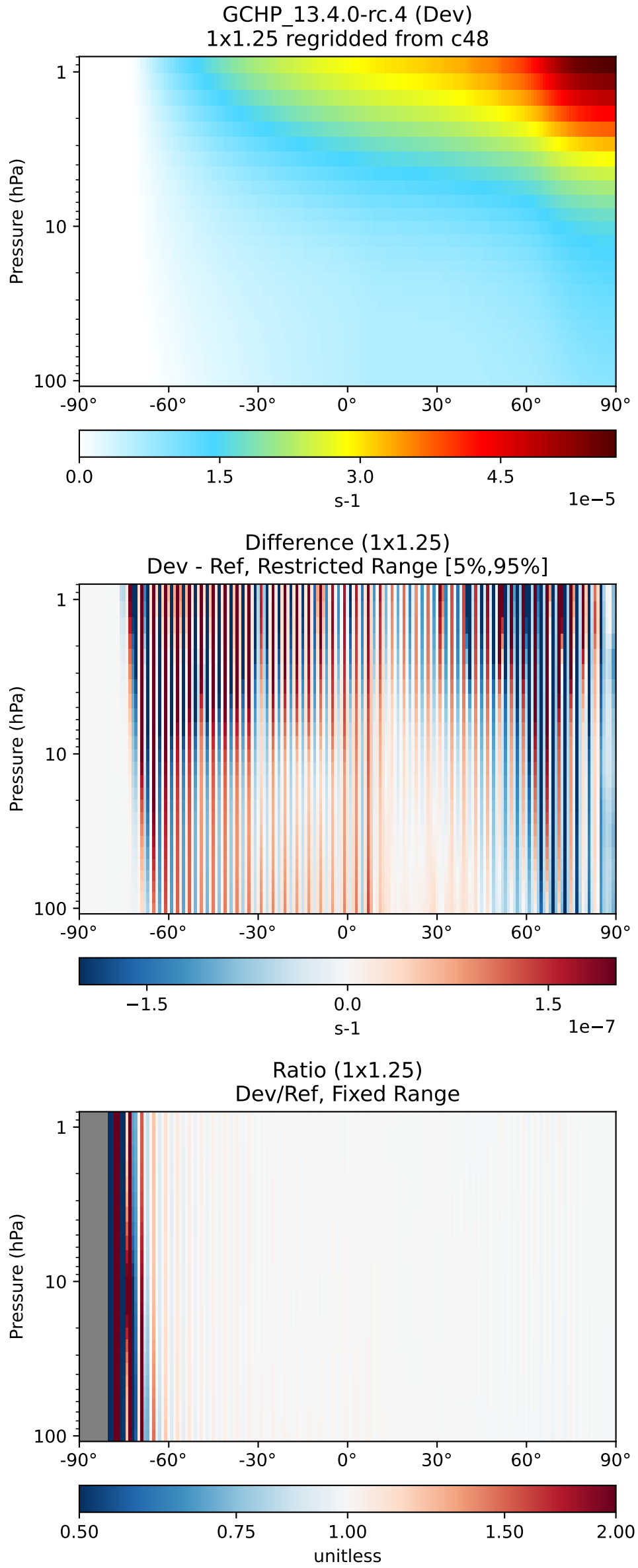
Jval_ITCN, Zonal Mean



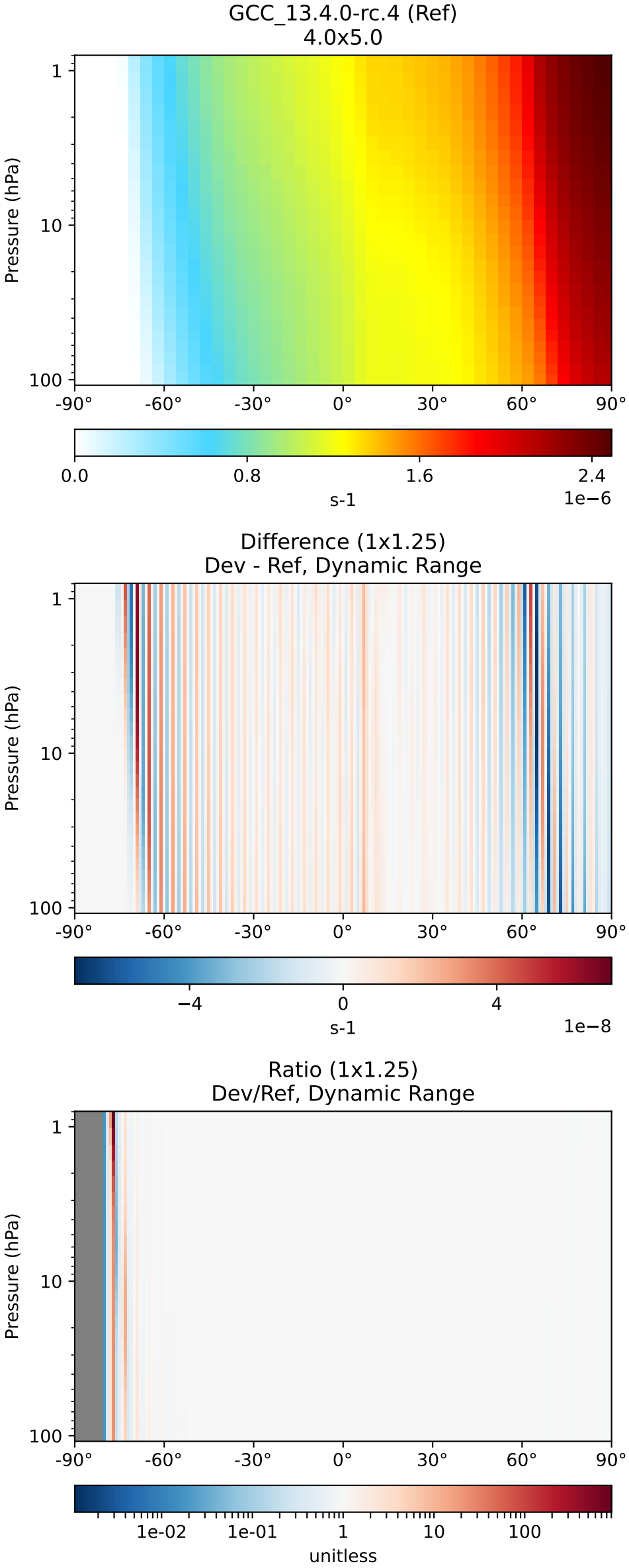


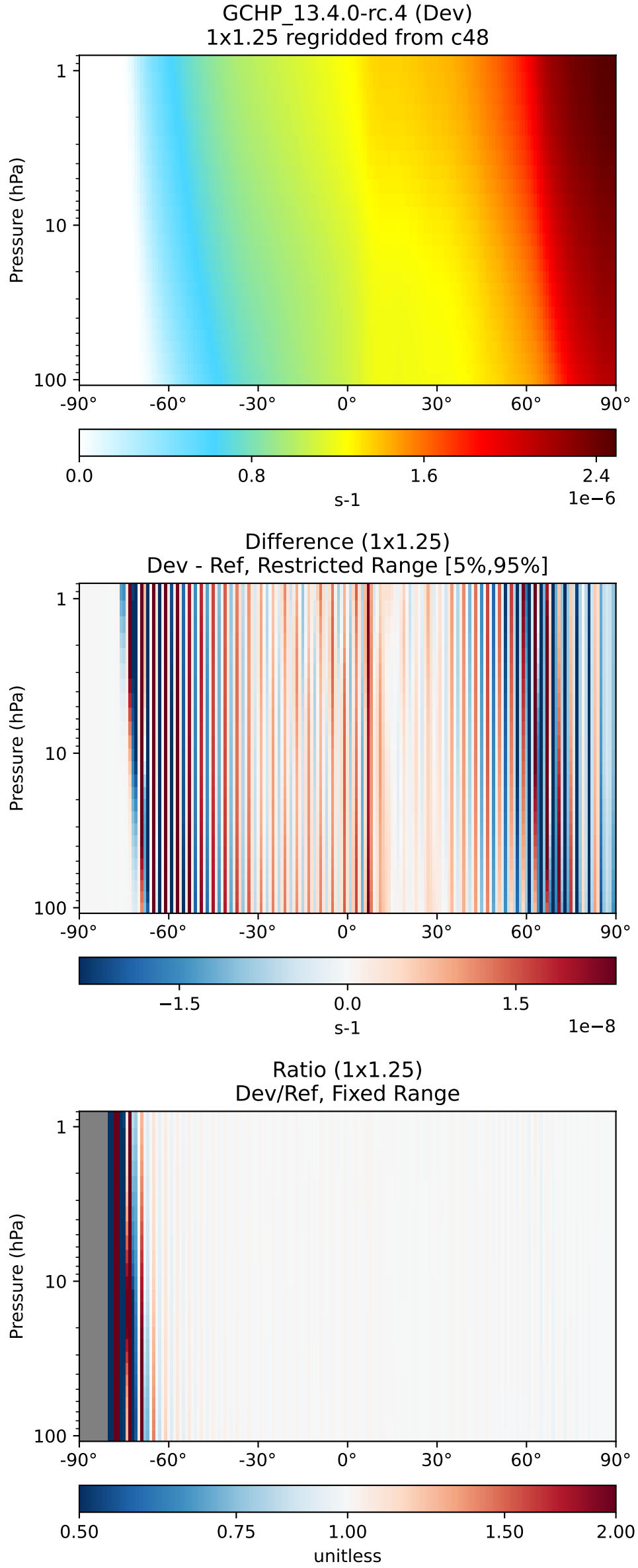
Jval_ITHN, Zonal Mean



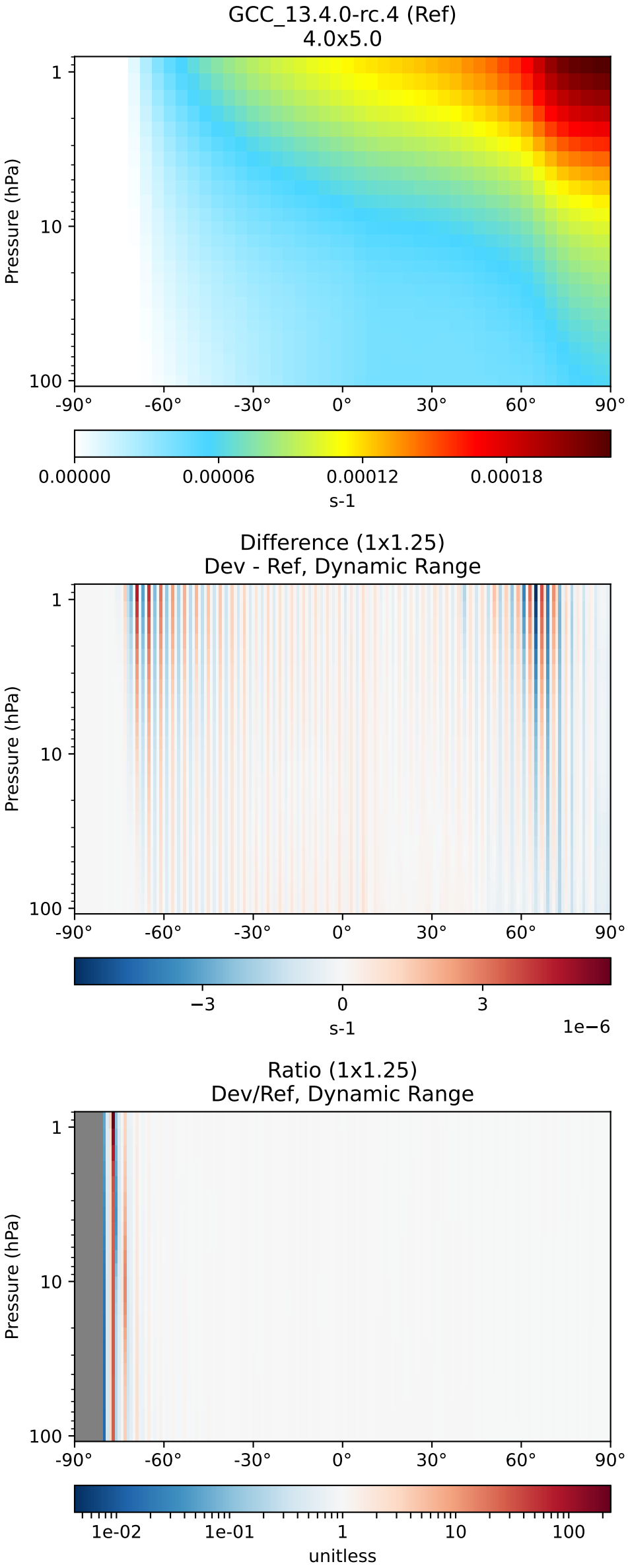


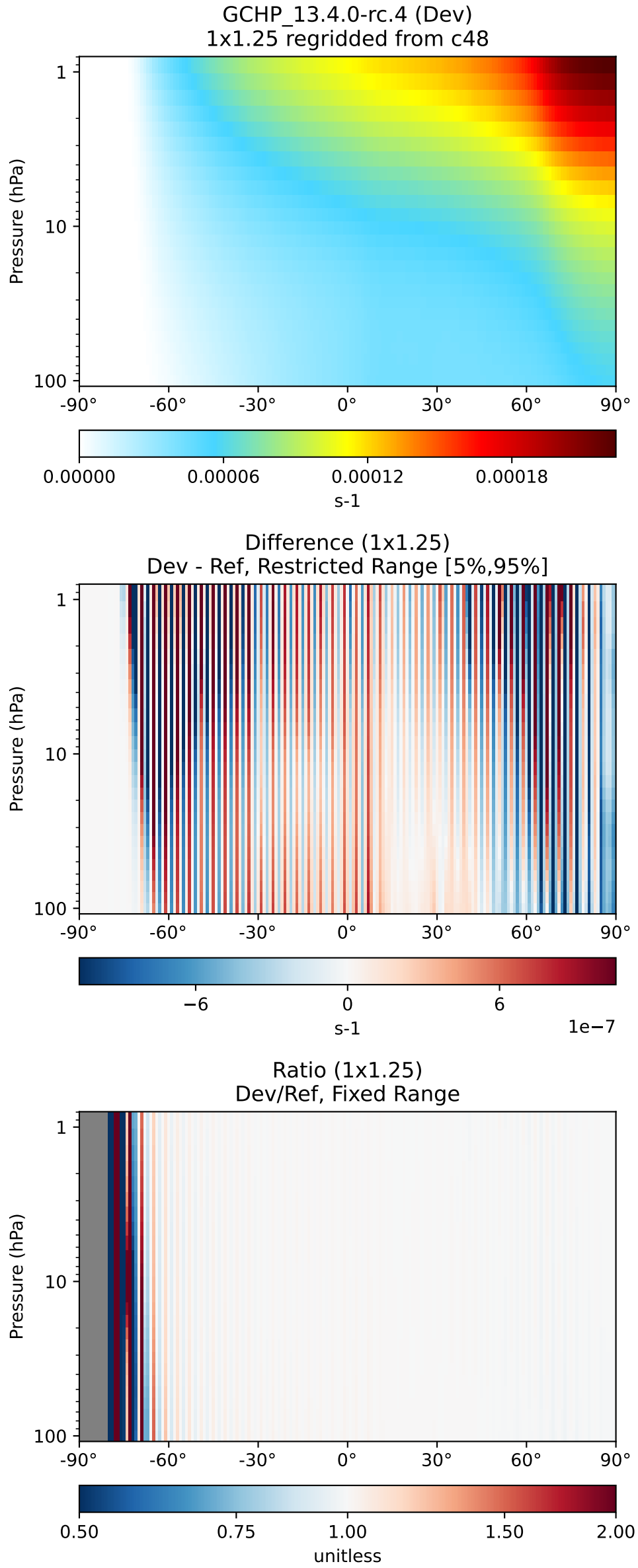
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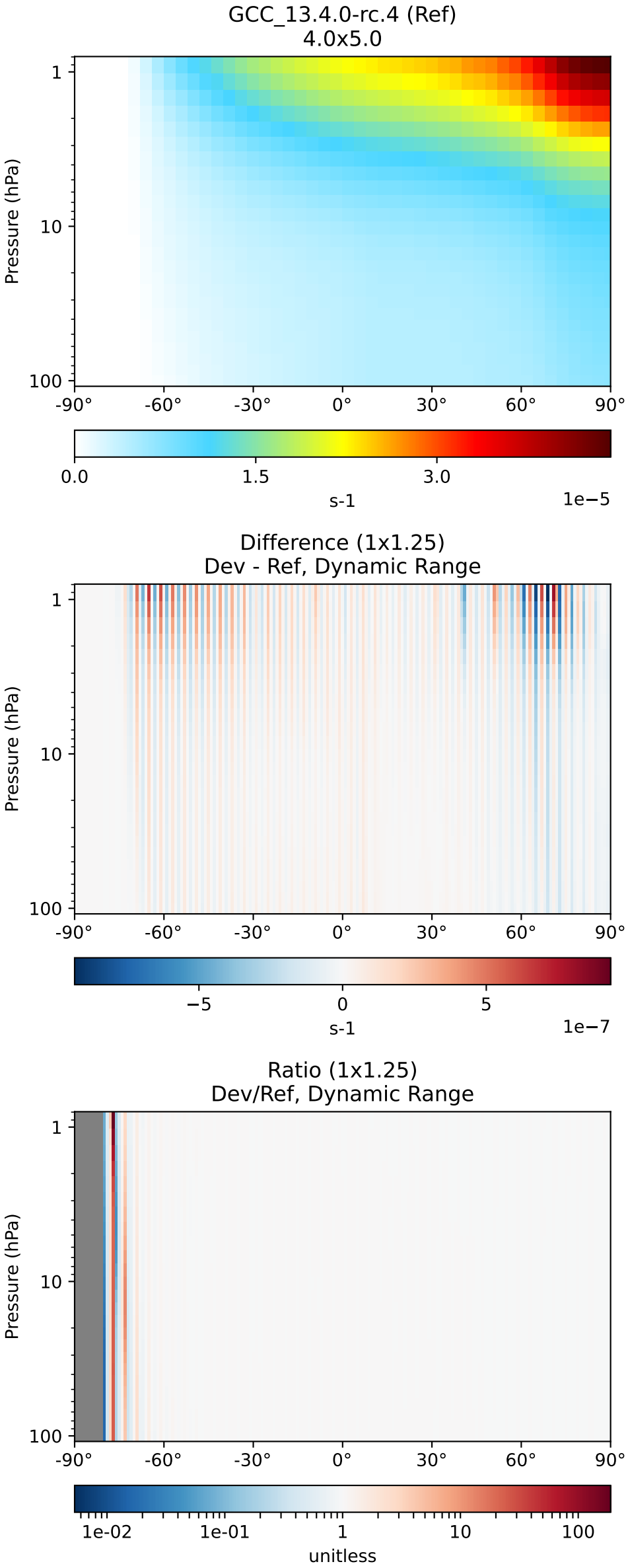


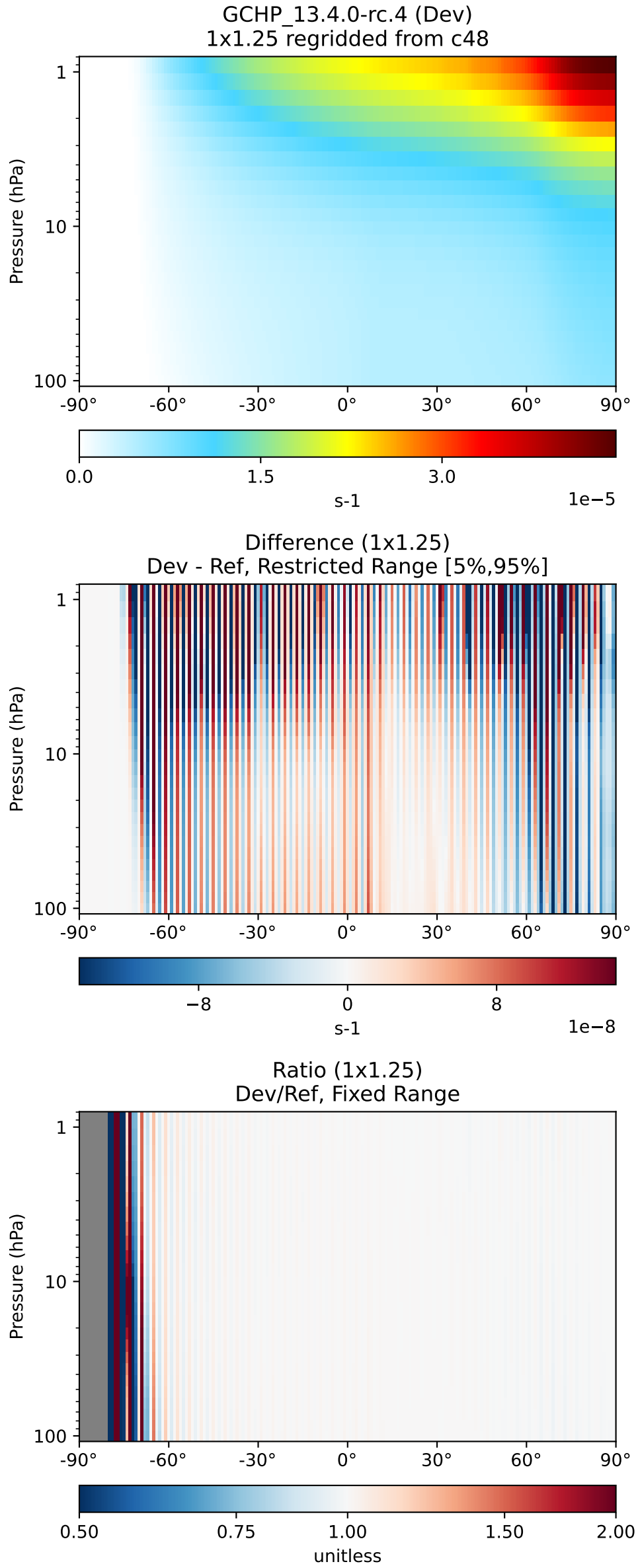
Jval_MACR1OOH, Zonal Mean



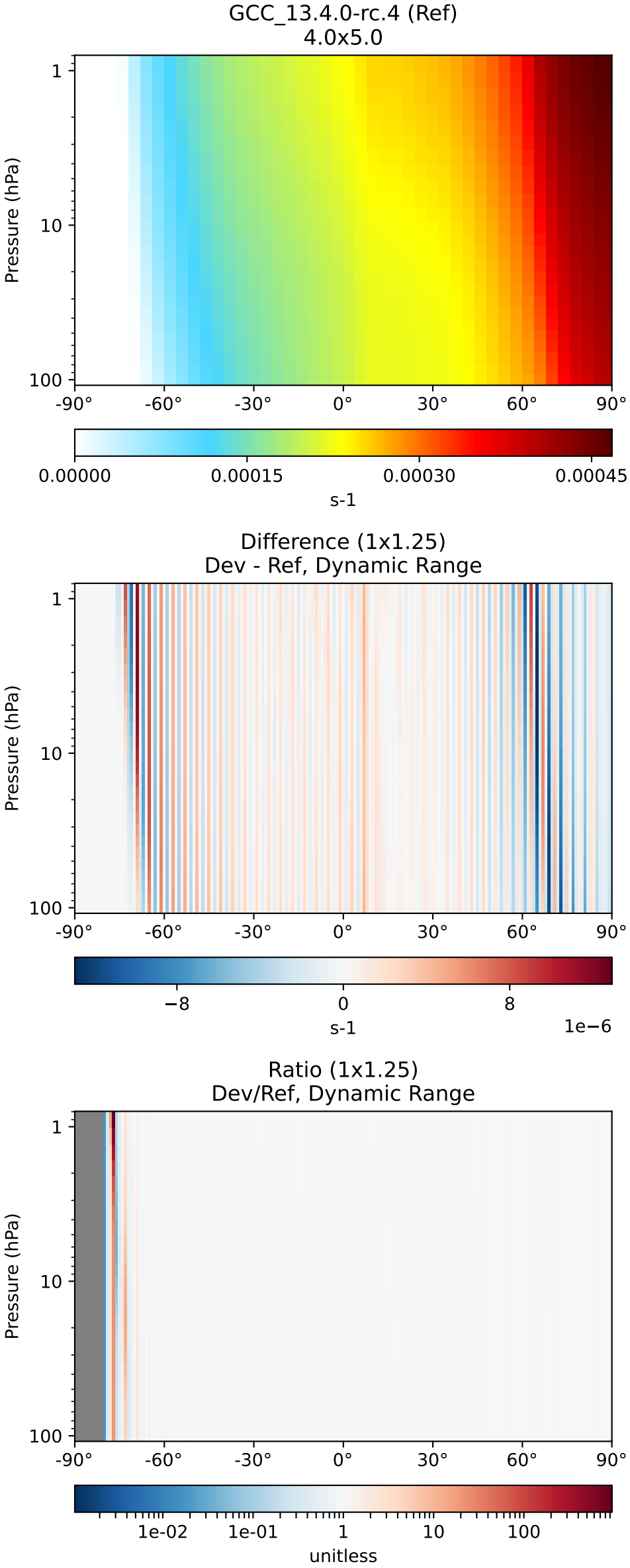


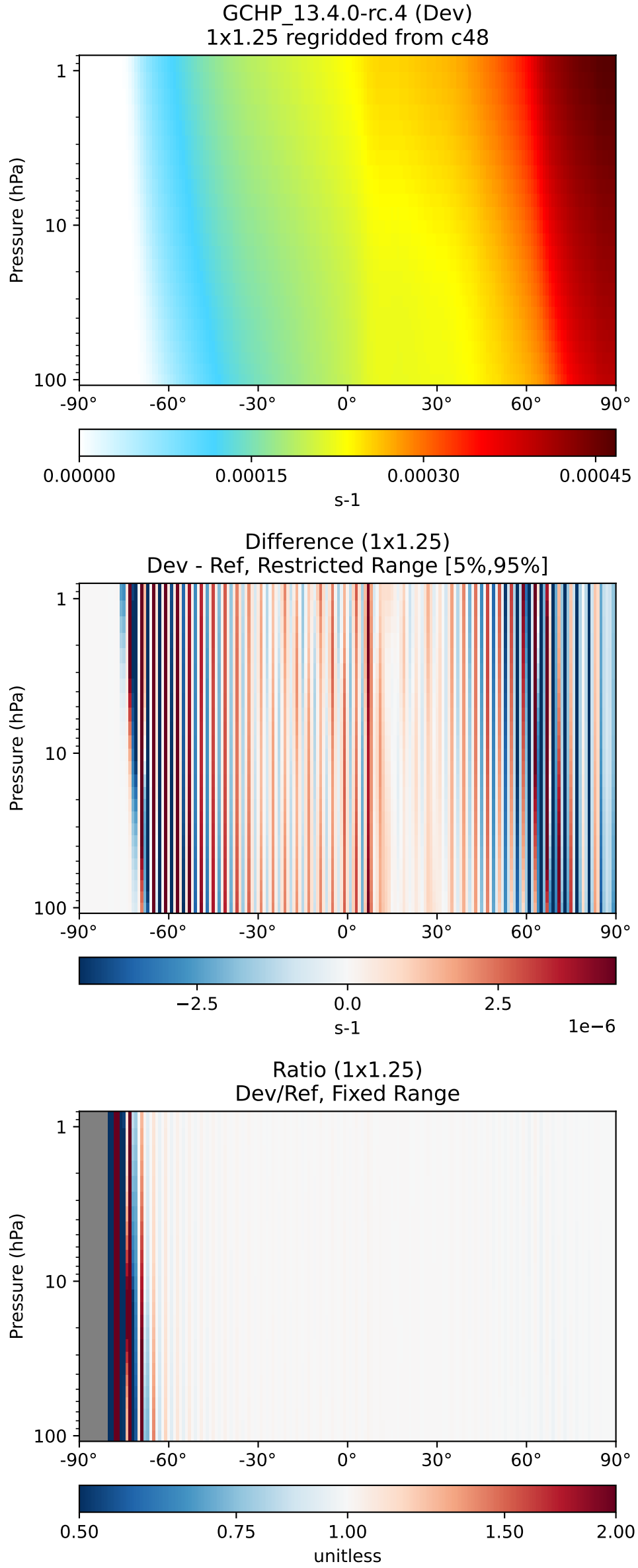
Jval_MAP, Zonal Mean



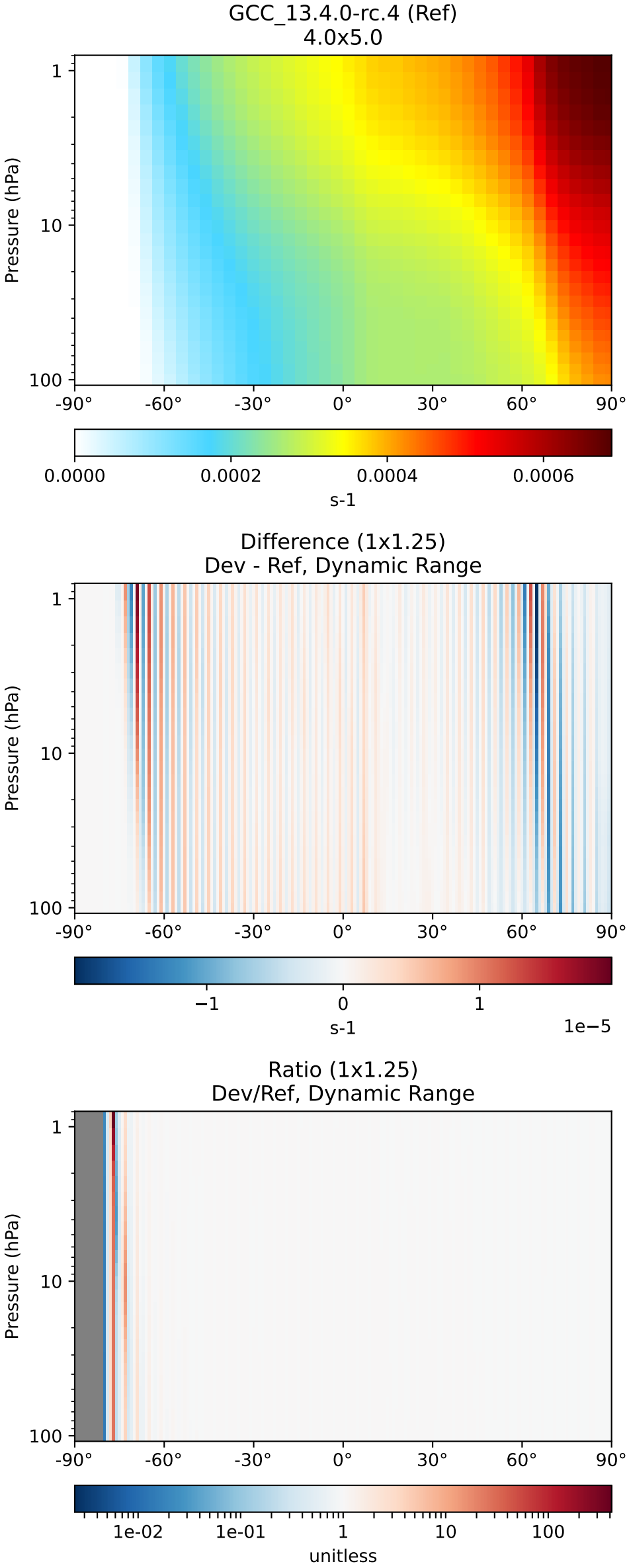


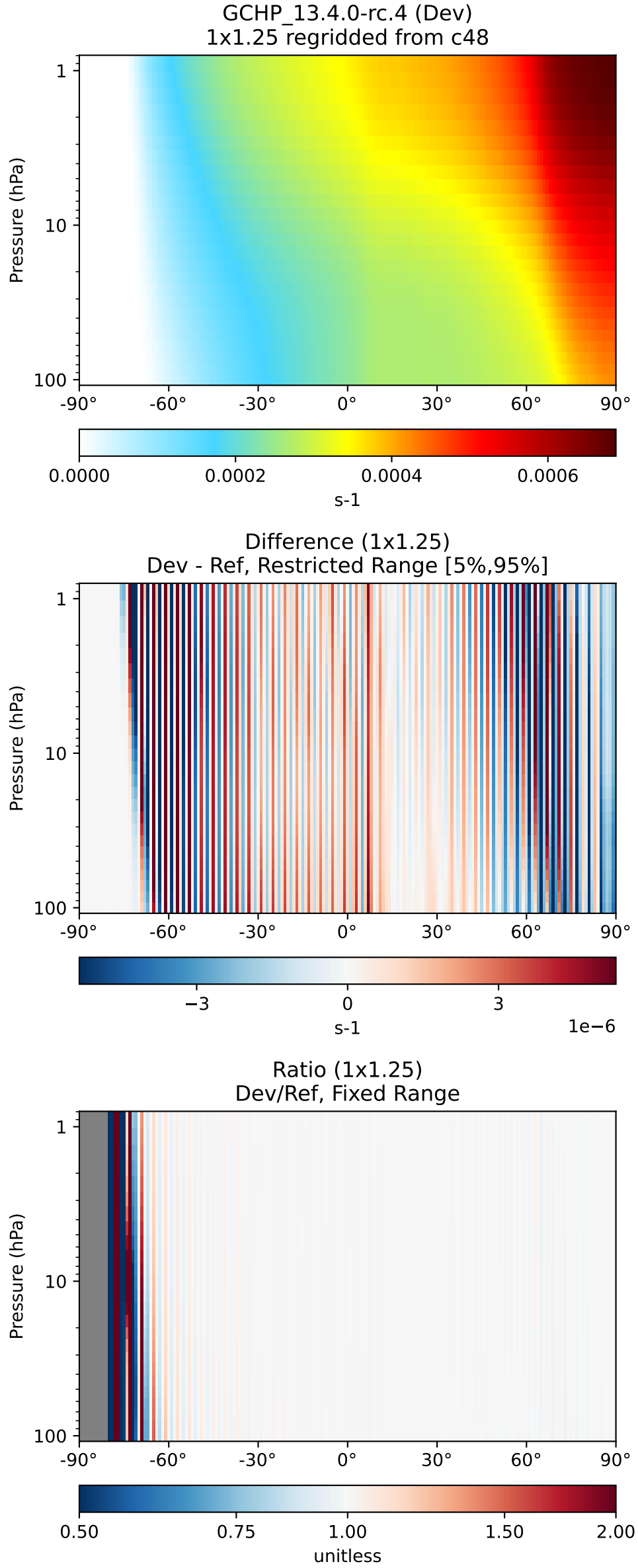
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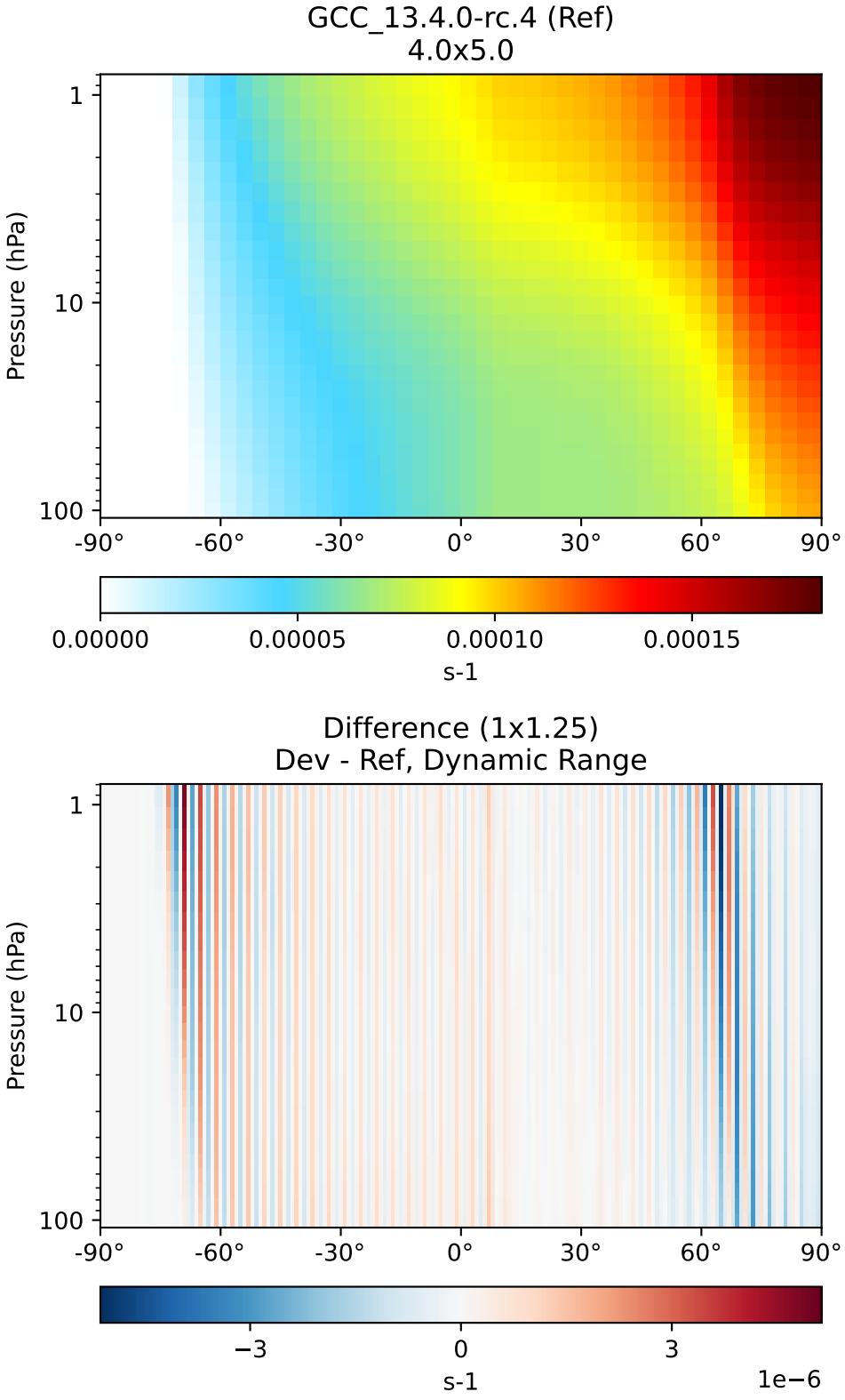


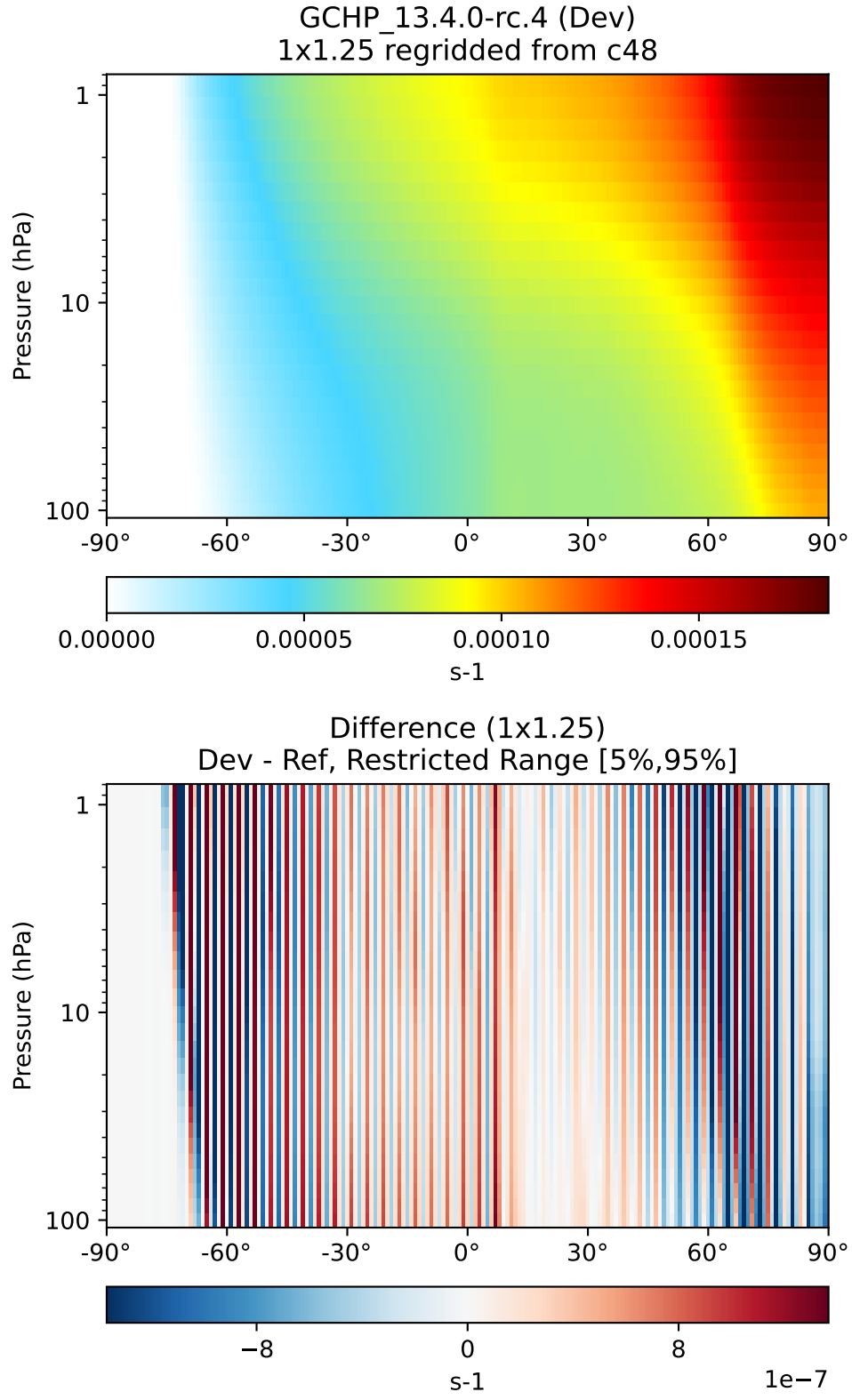
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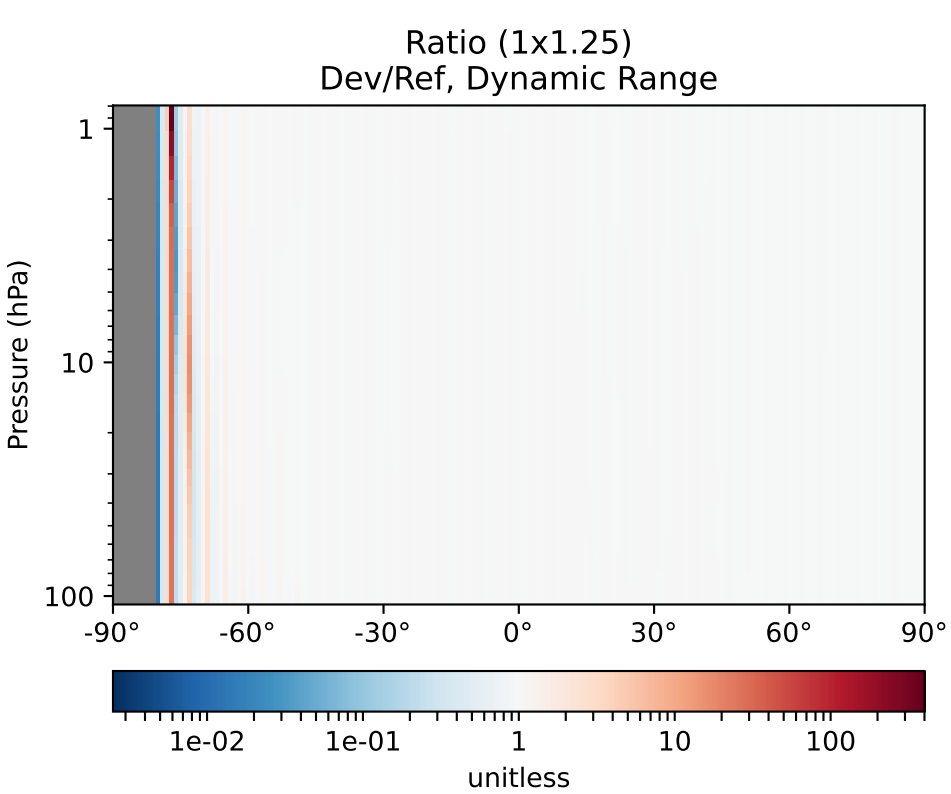


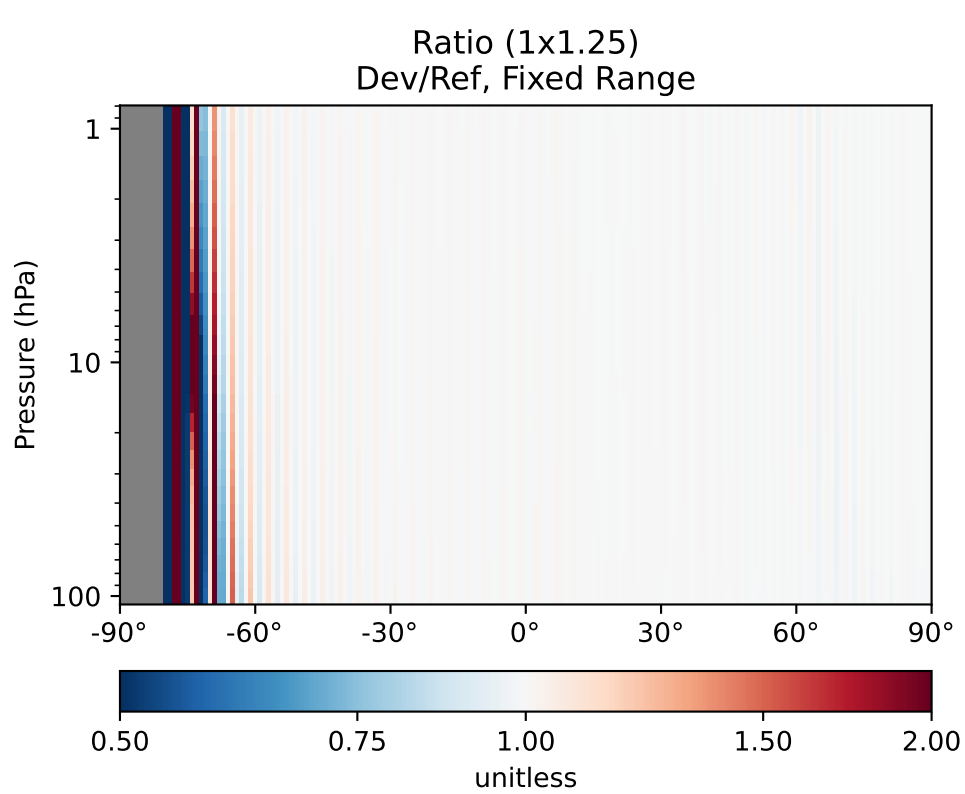


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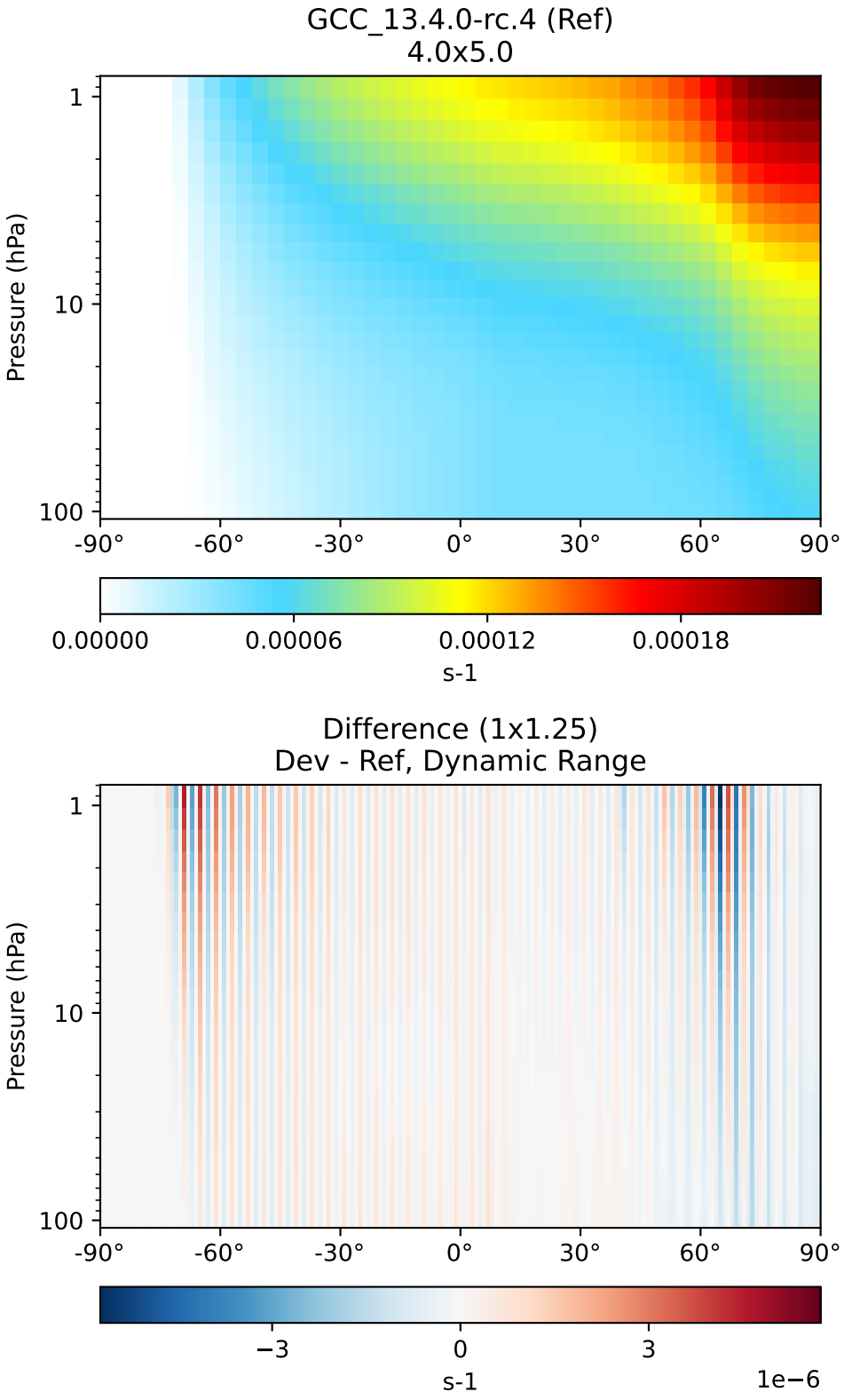


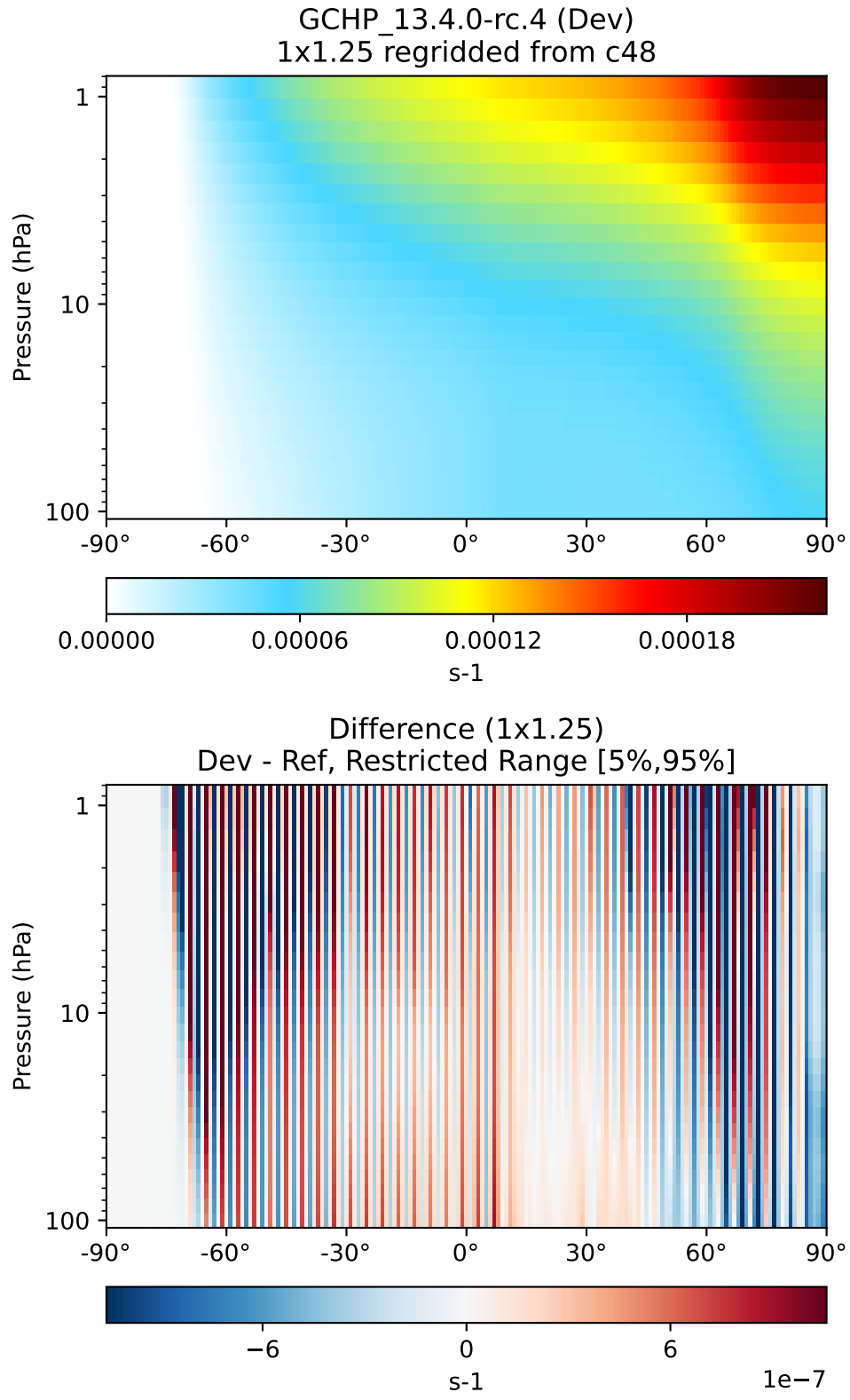


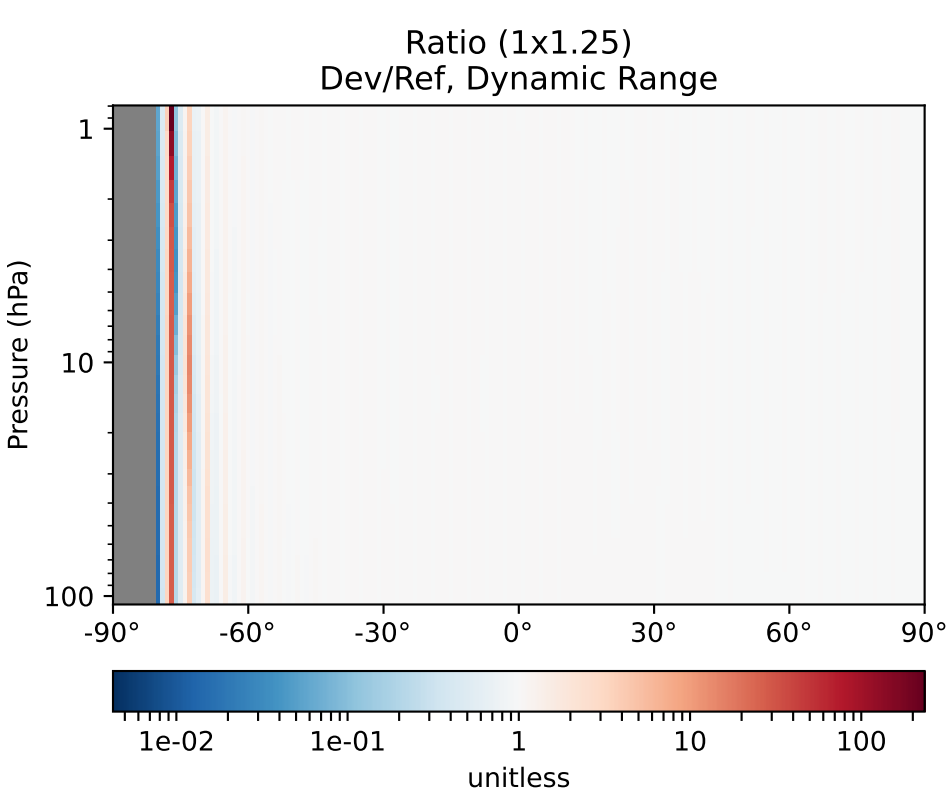


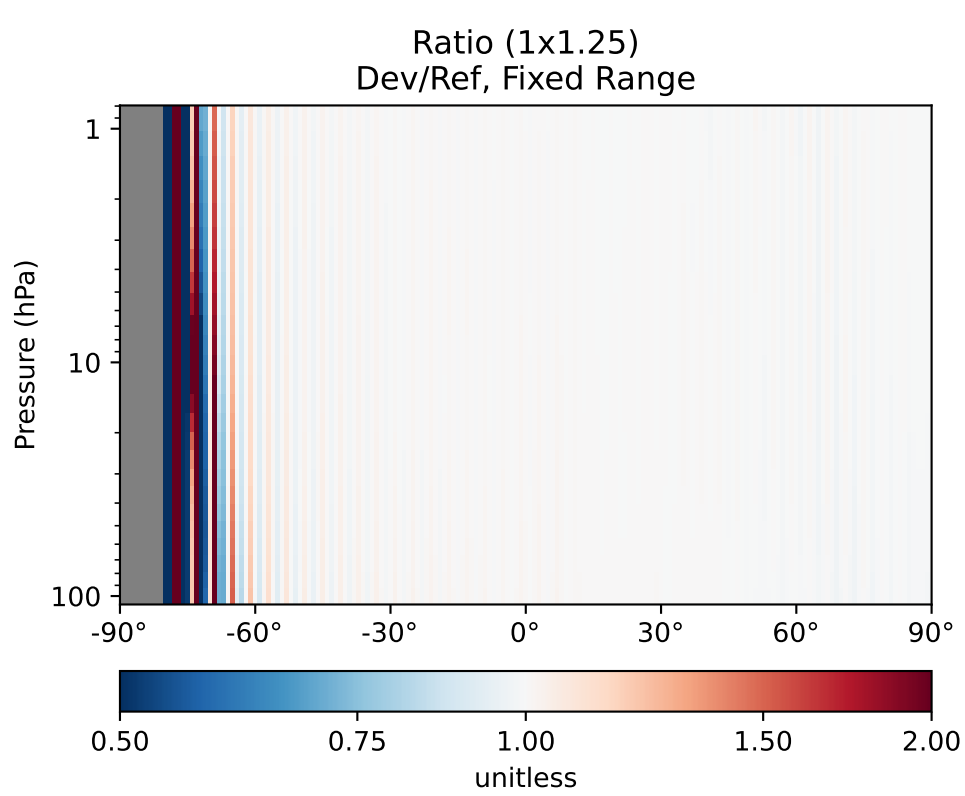


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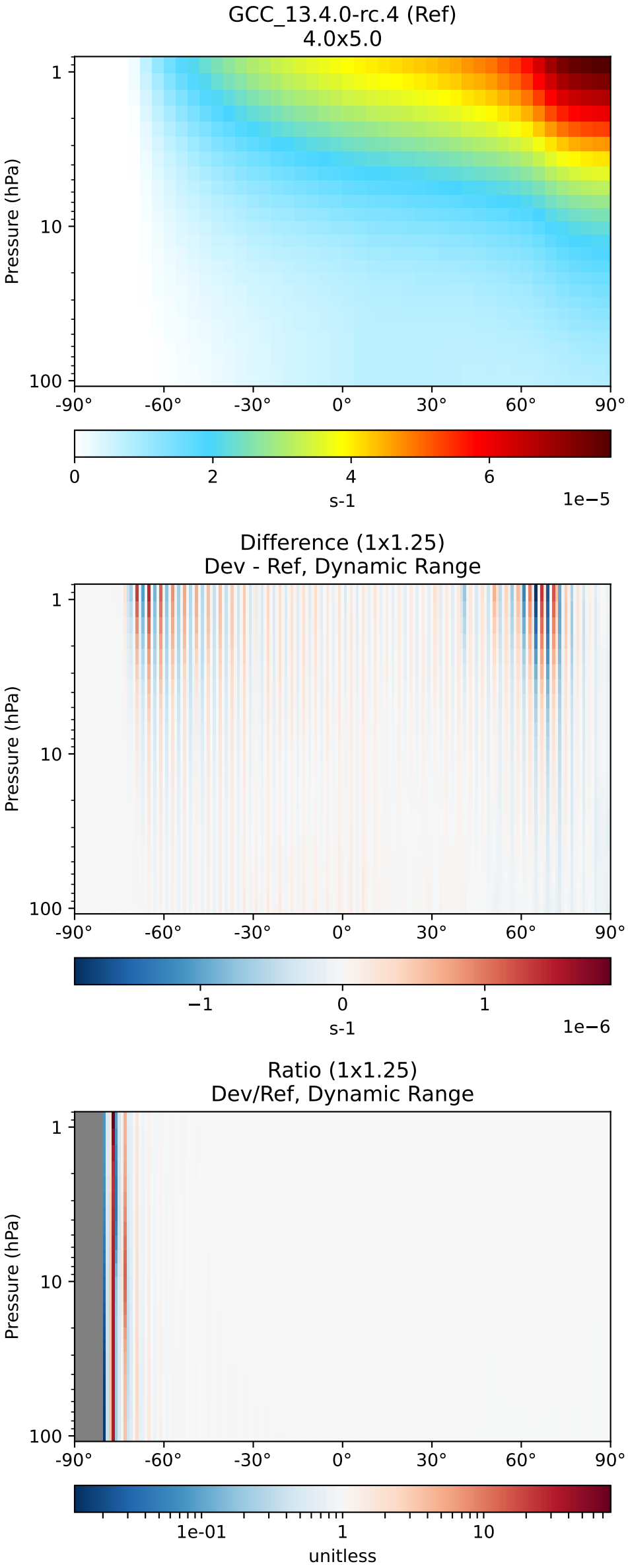


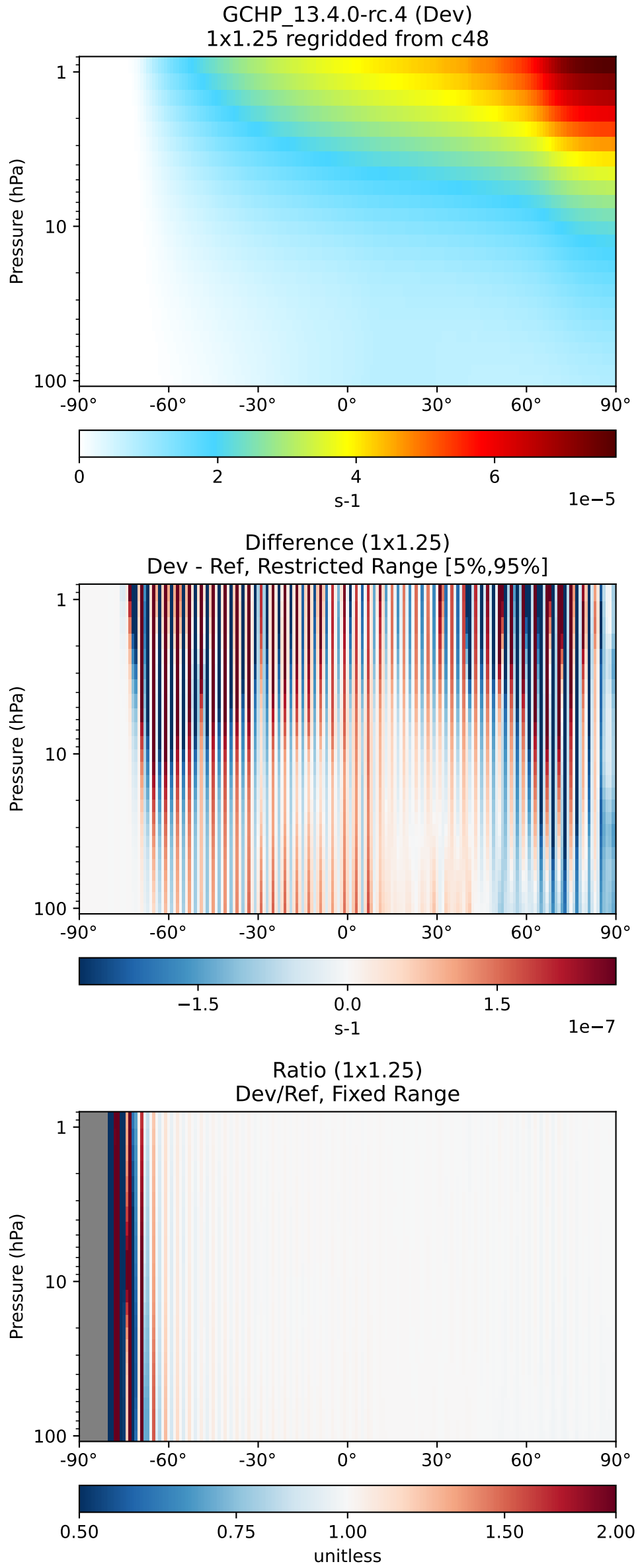




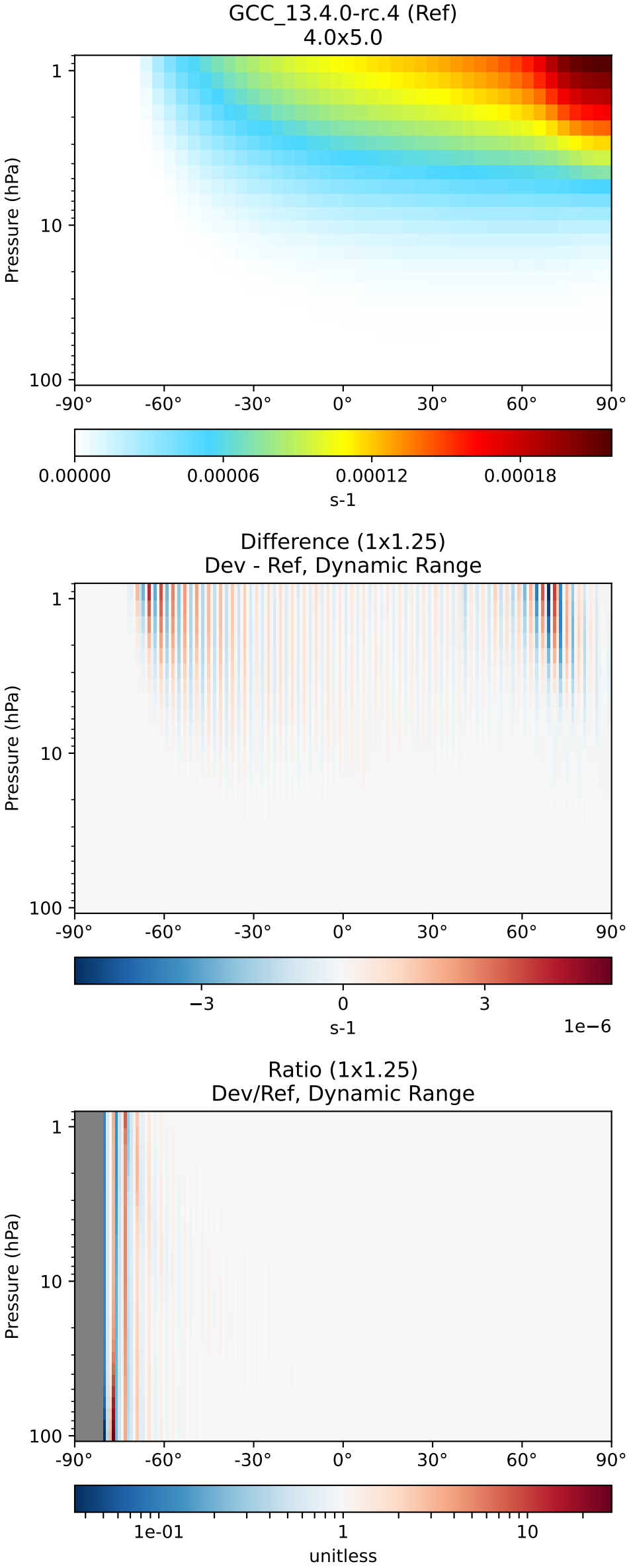


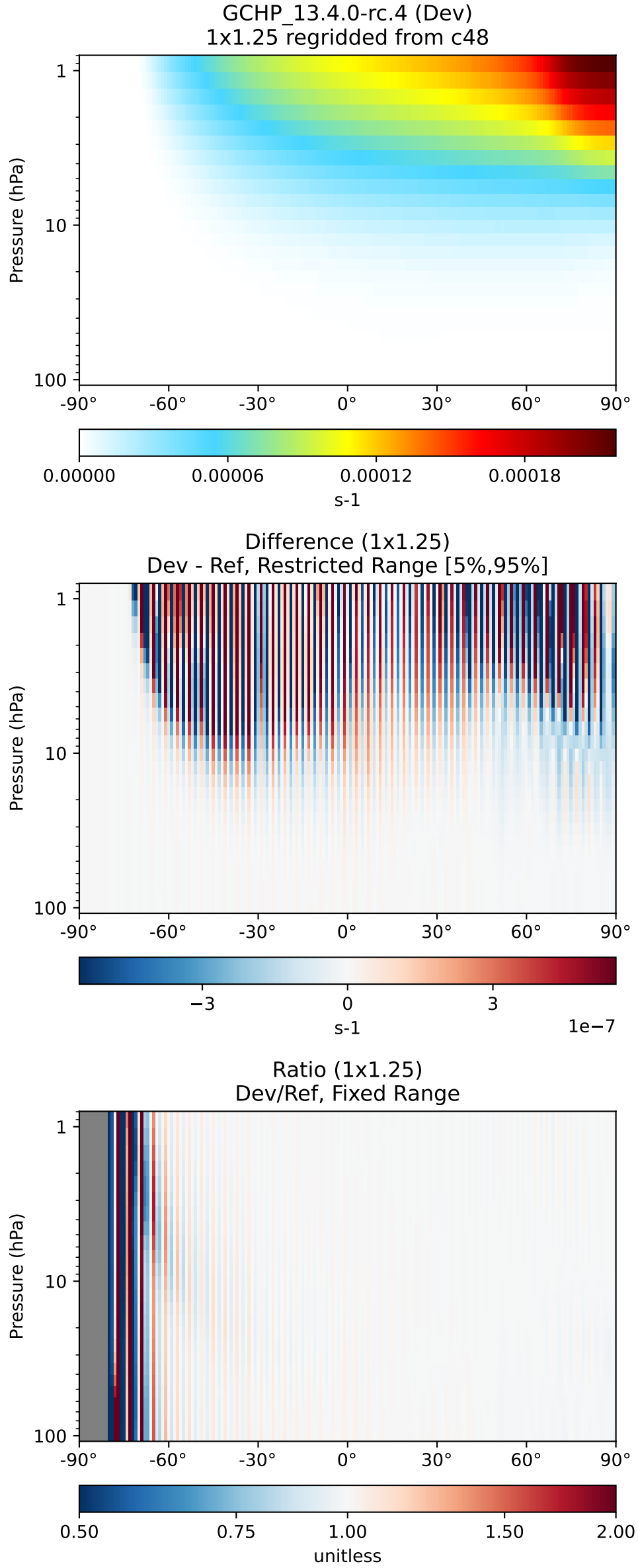
Jval_MEK, Zonal Mean



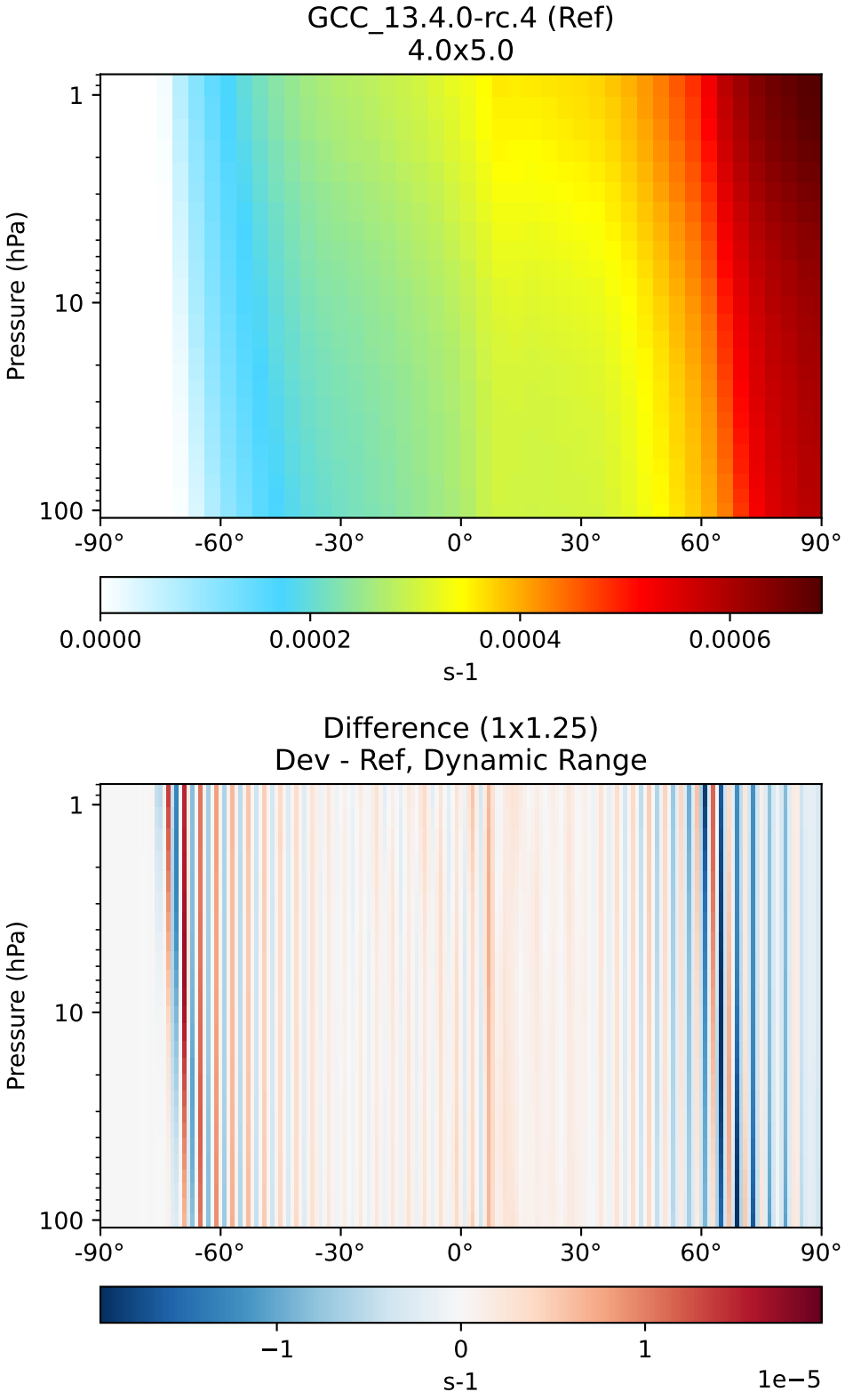


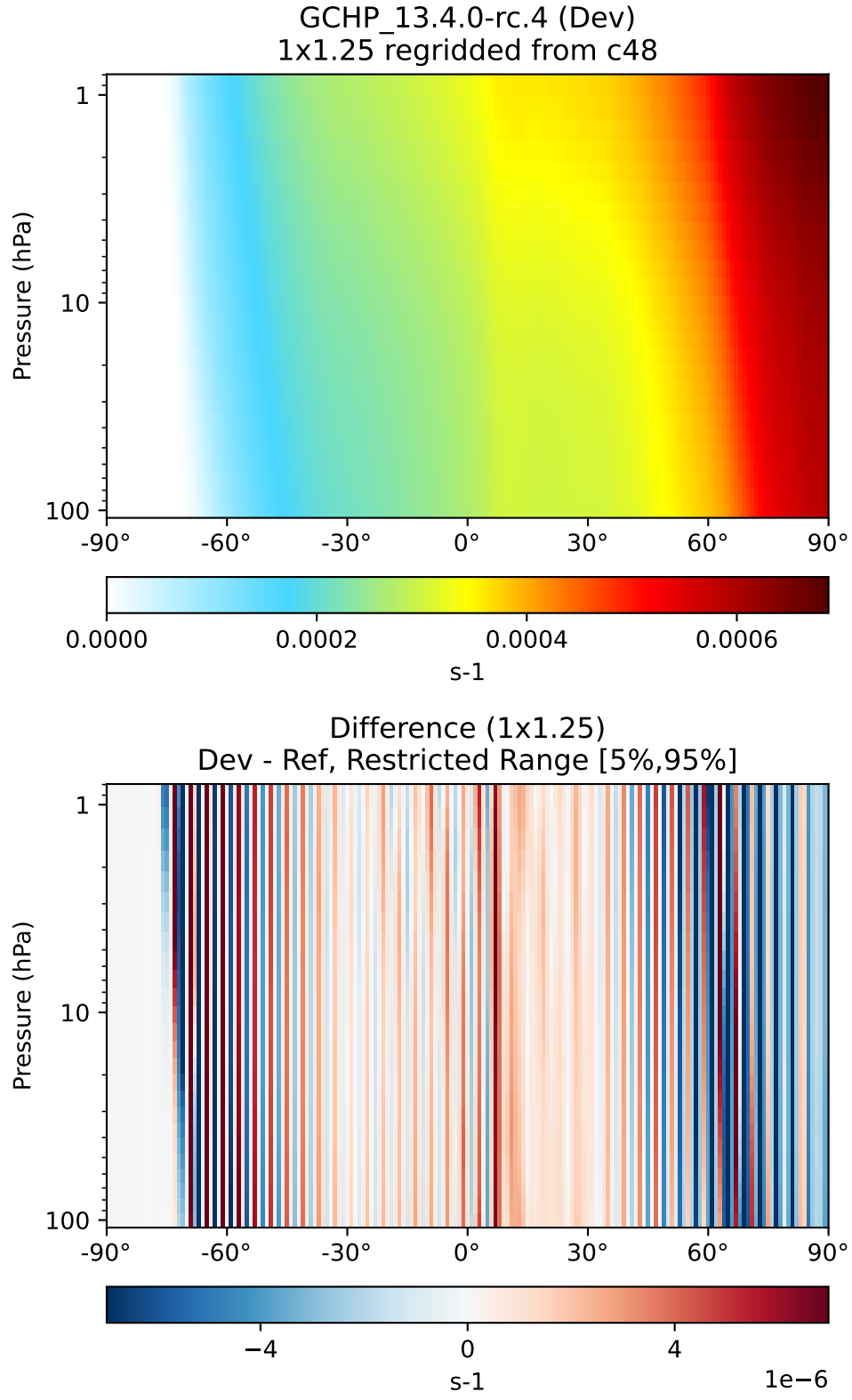
Jval_MENO3, Zonal Mean

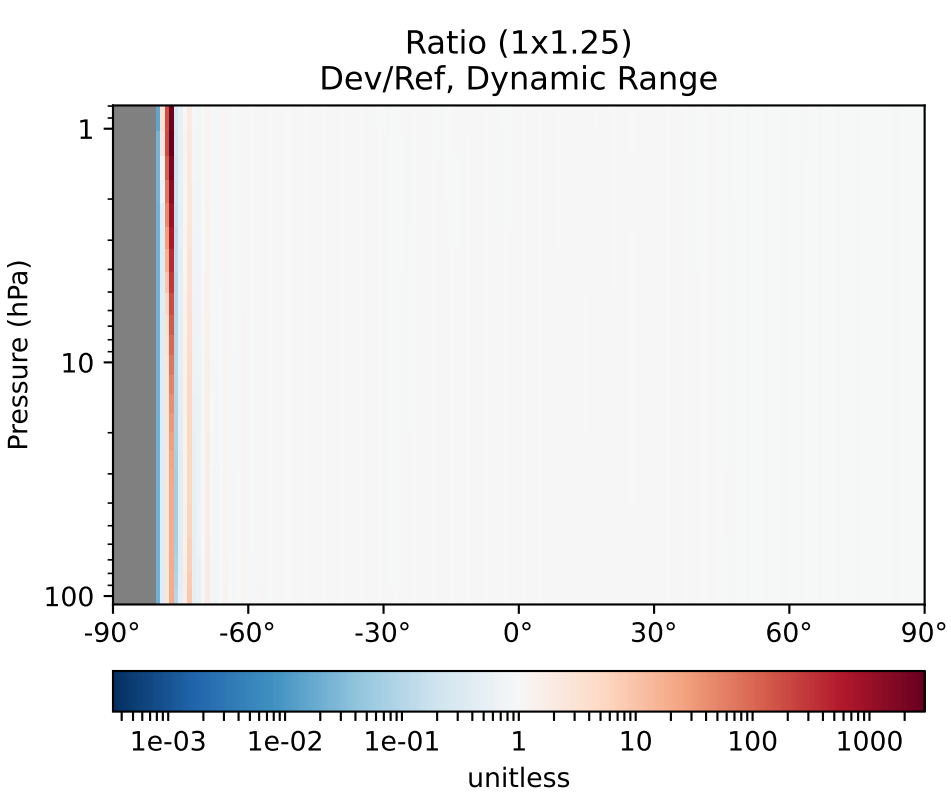


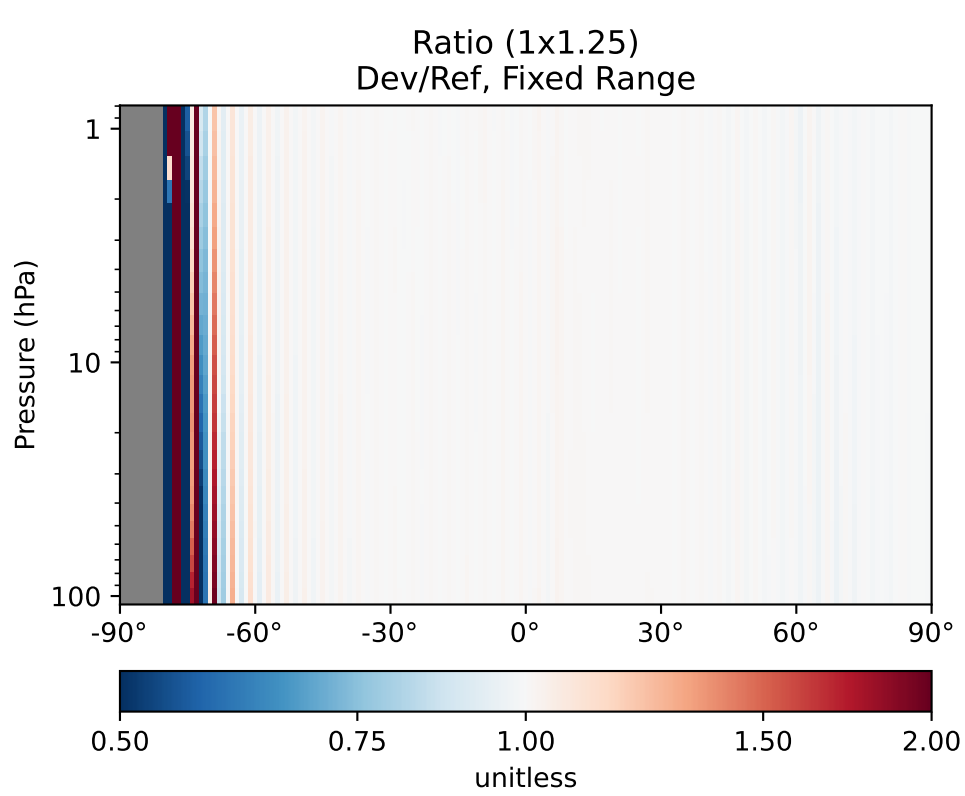


Jval_MGLY, Zonal Mean

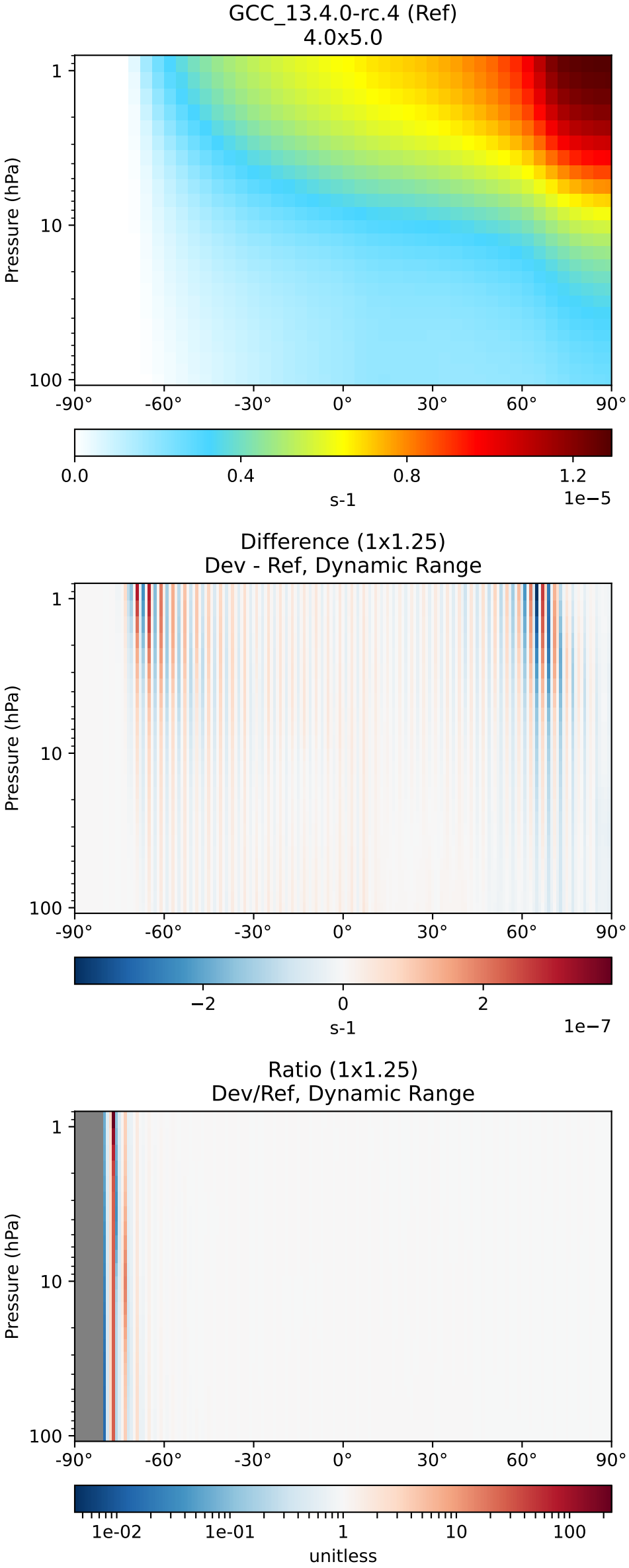


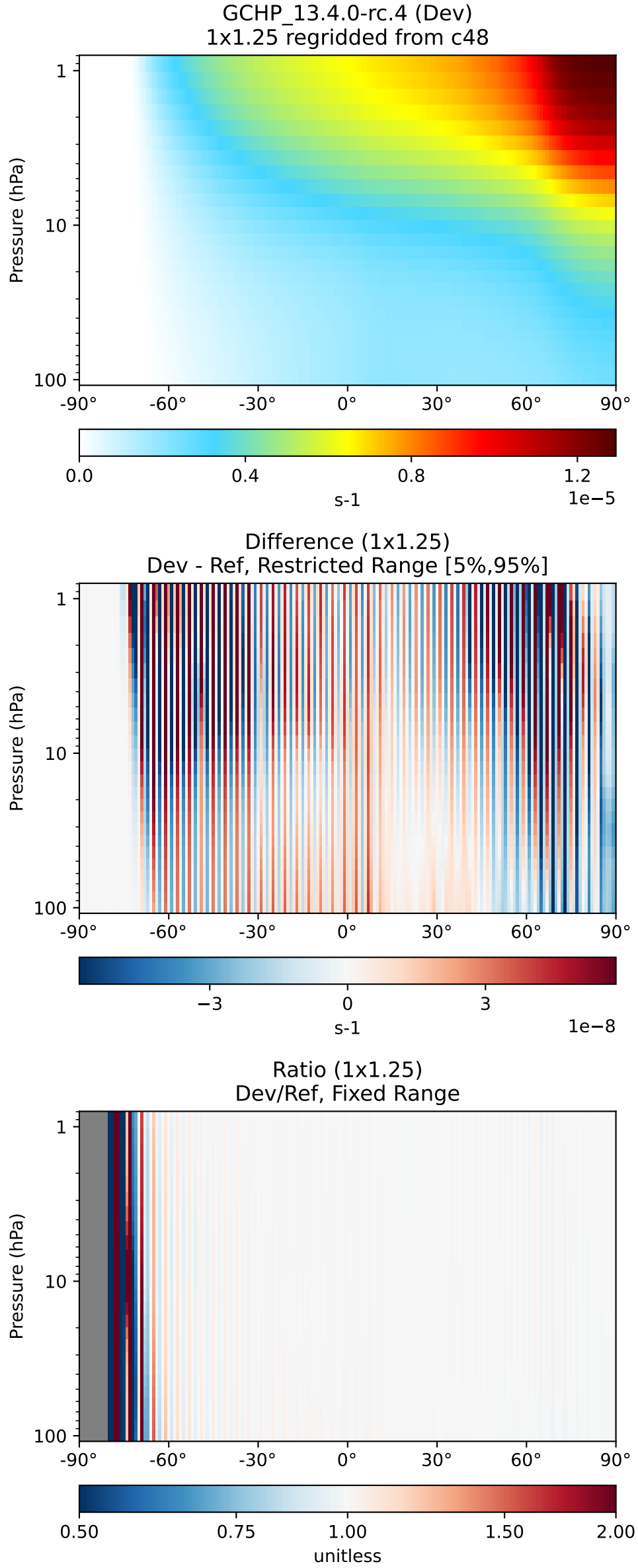






Jval_MONITS, Zonal Mean

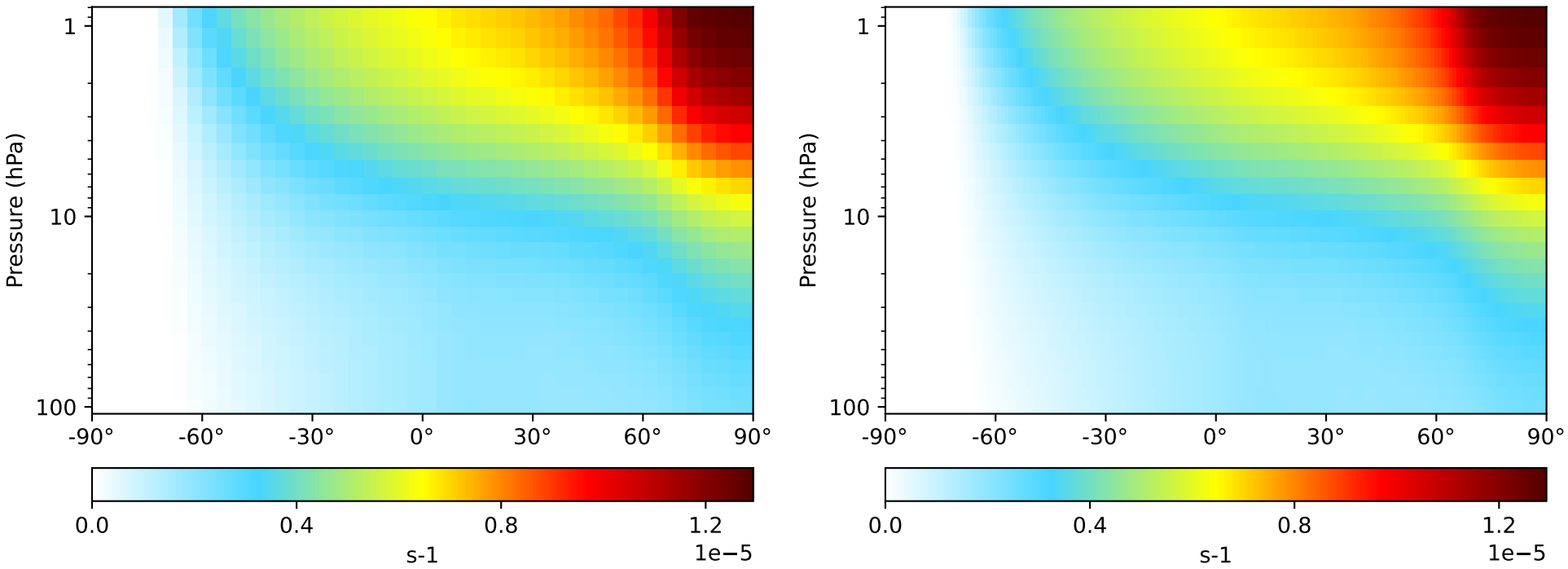




Jval_MONITU, Zonal Mean

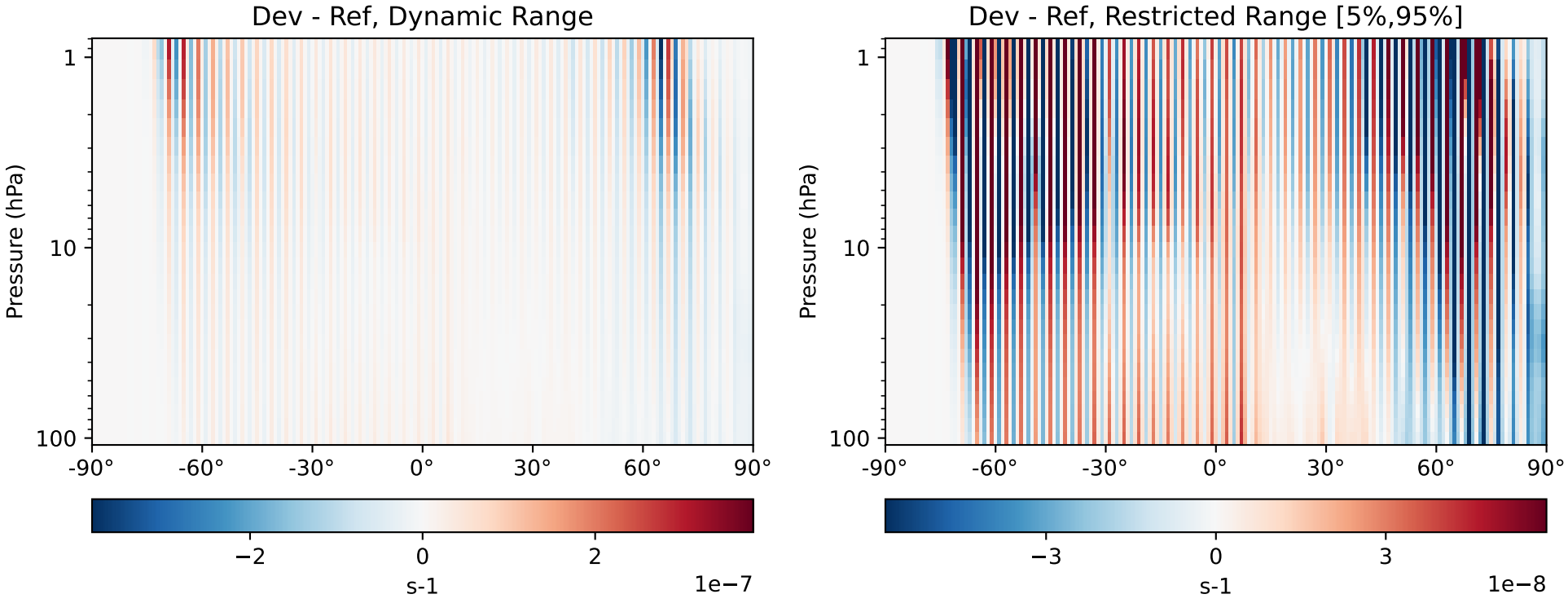
GCC_13.4.0-rc.4 (Ref)
4.0x5.0

GCHP_13.4.0-rc.4 (Dev)
1x1.25 regridded from c48



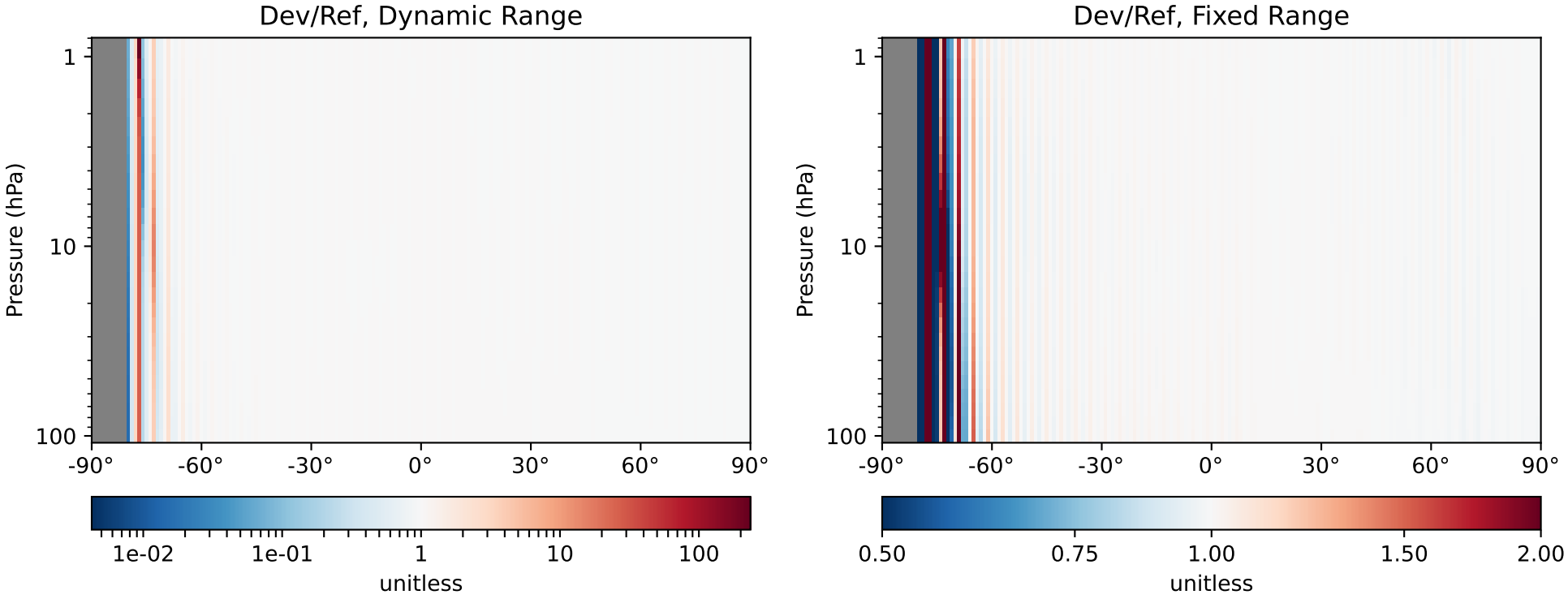
Difference (1x1.25)
Dev - Ref, Dynamic Range

Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]

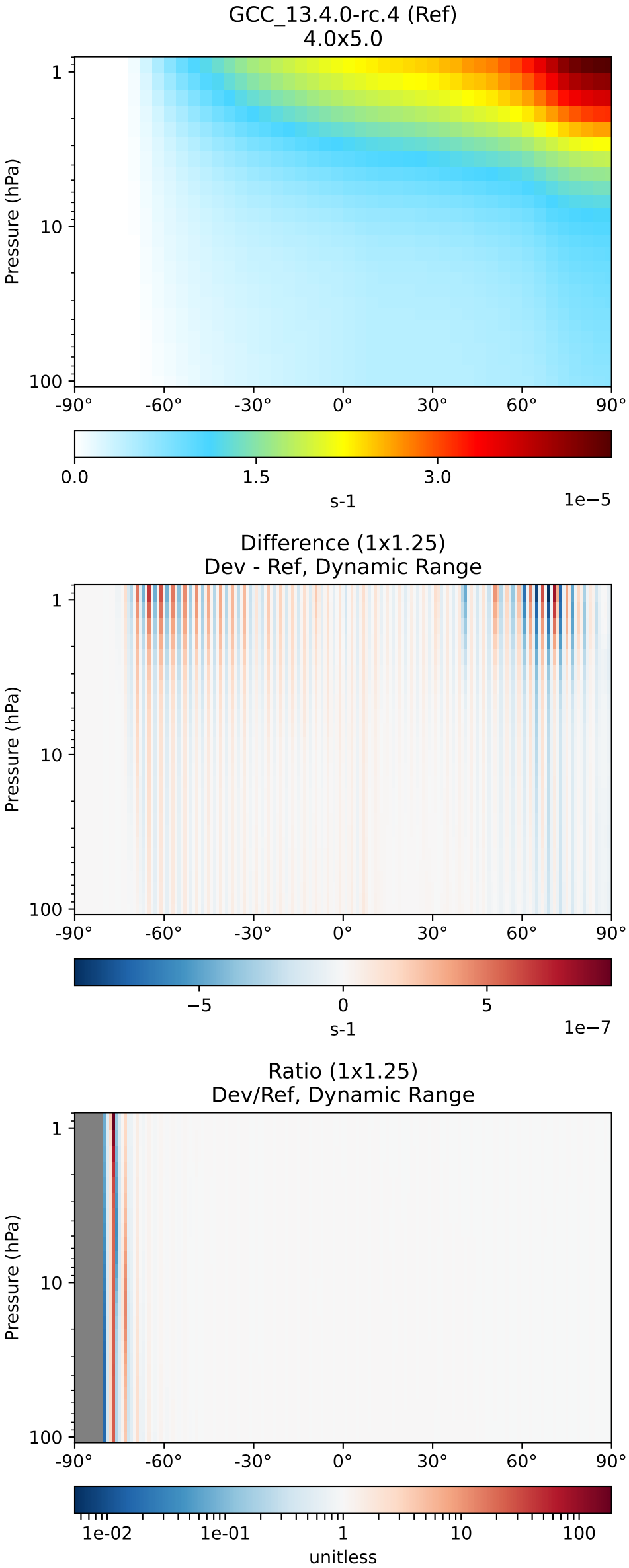


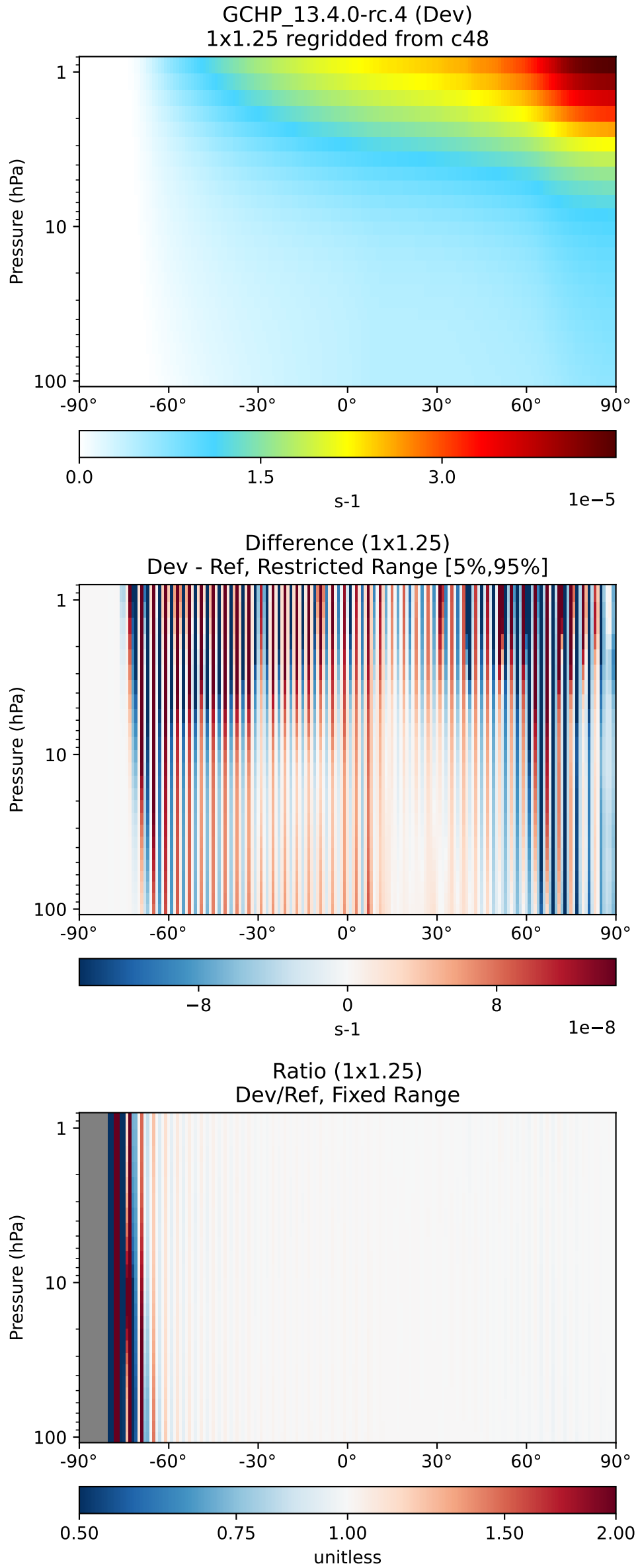
Ratio (1x1.25)
Dev/Ref, Dynamic Range

Ratio (1x1.25)
Dev/Ref, Fixed Range

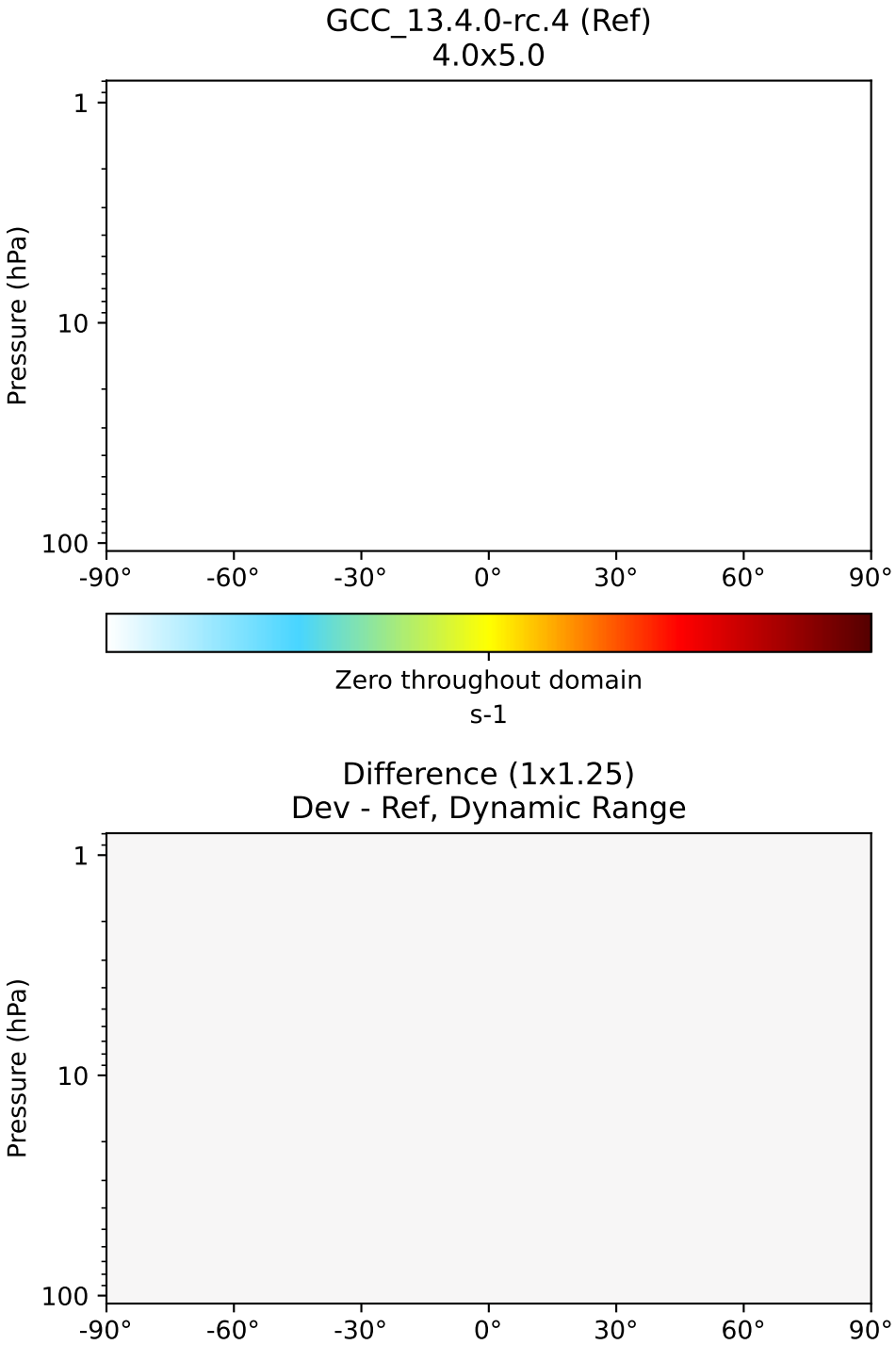


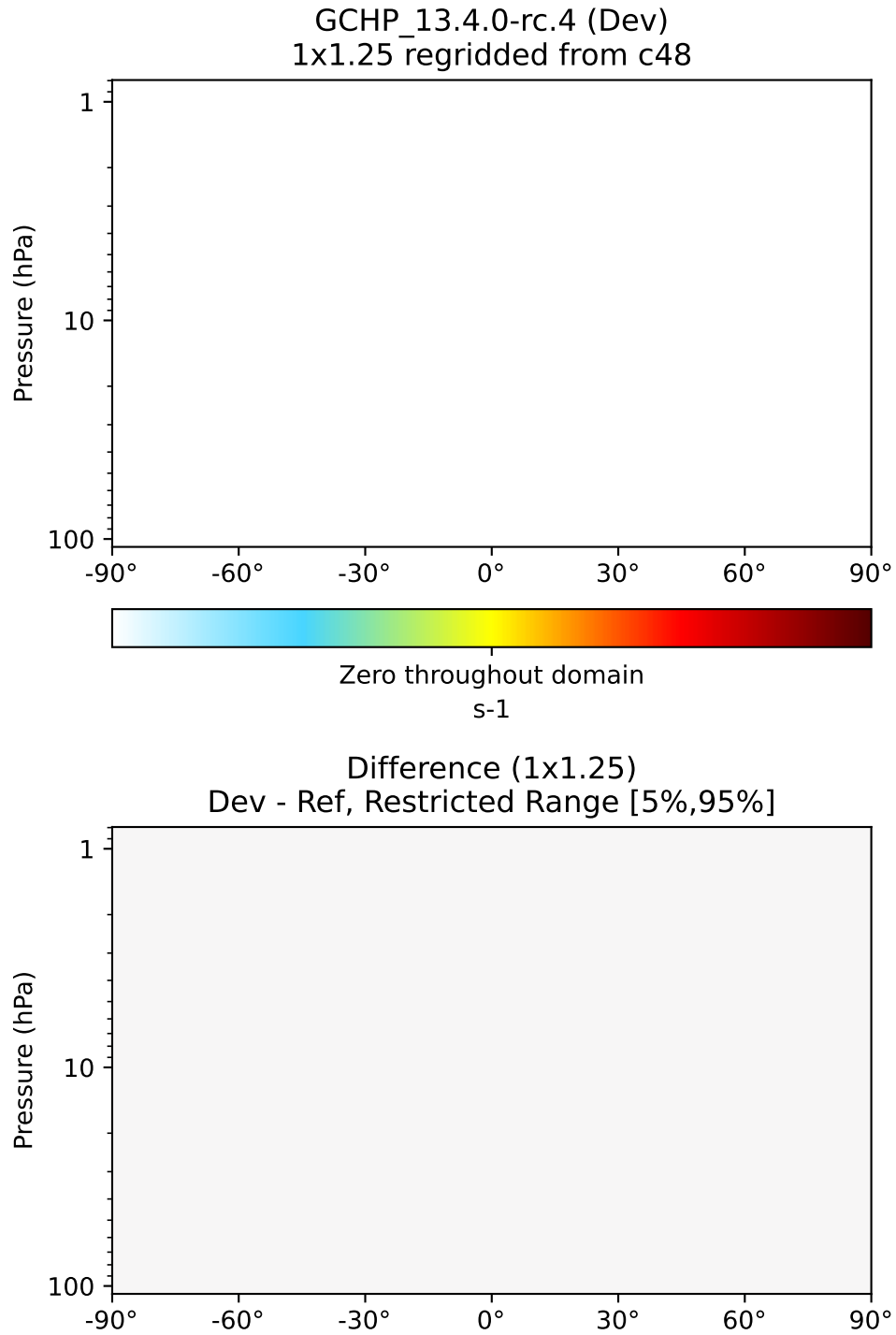
Jval_MP, Zonal Mean

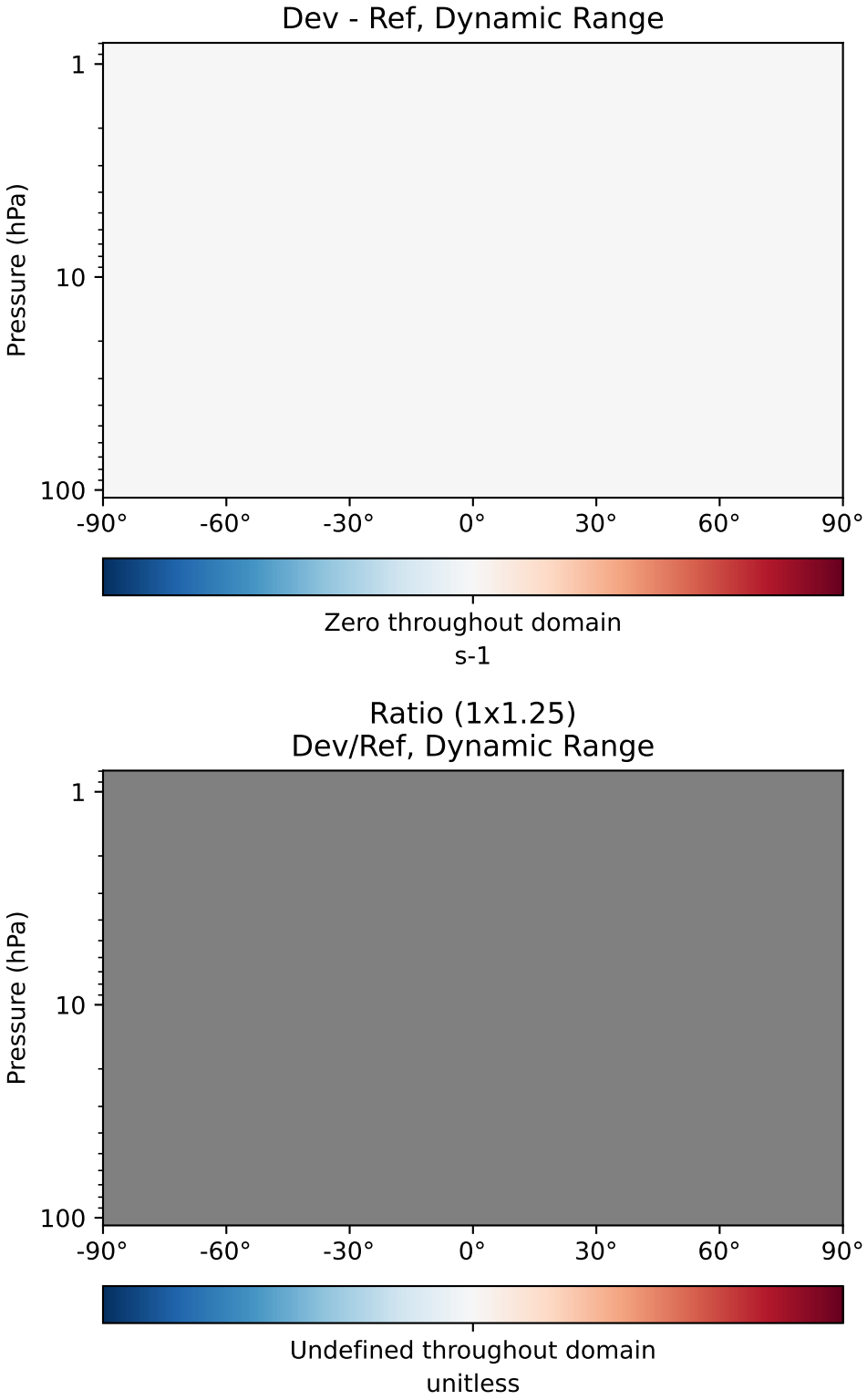


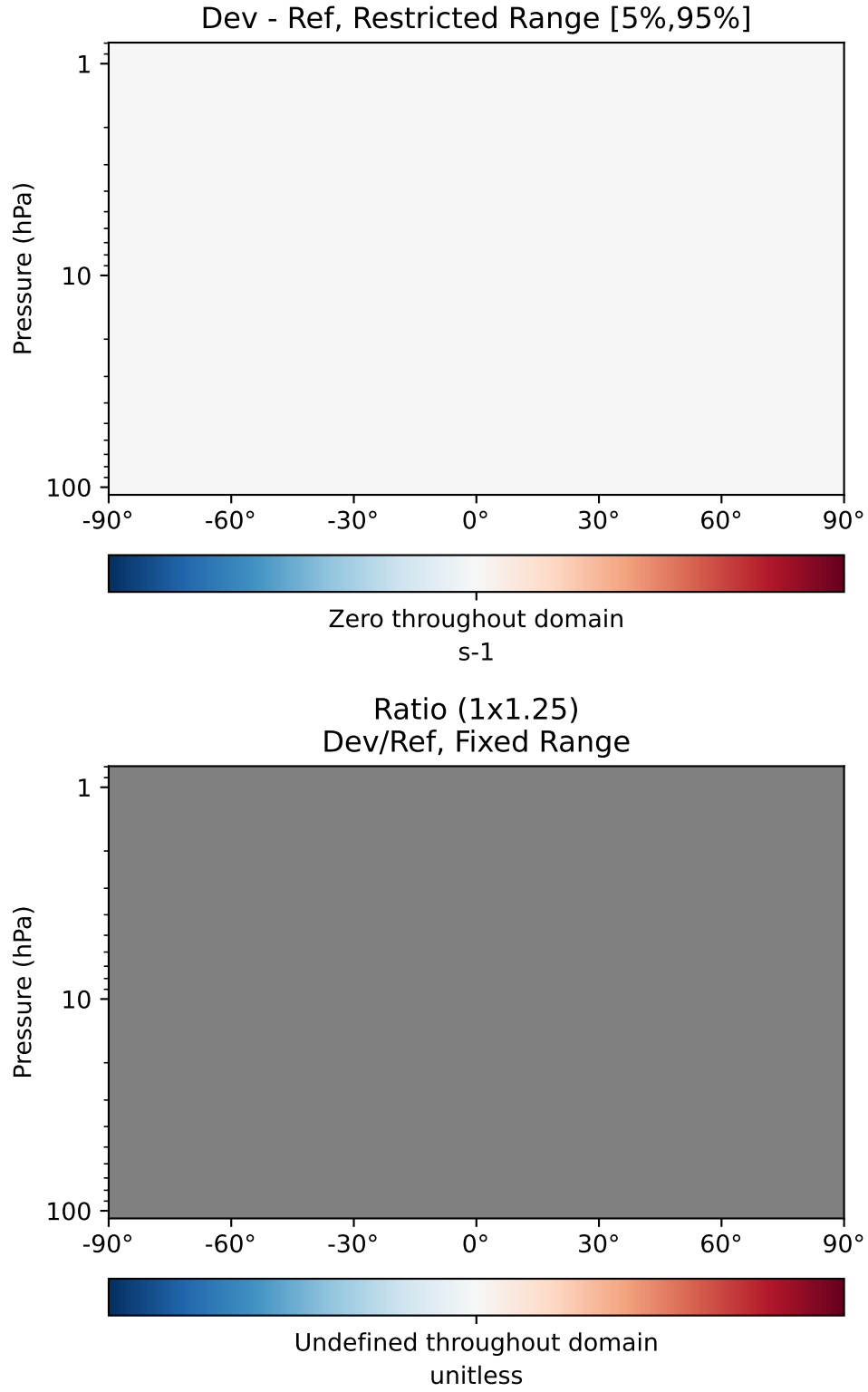


Jval_MPAN, Zonal Mean



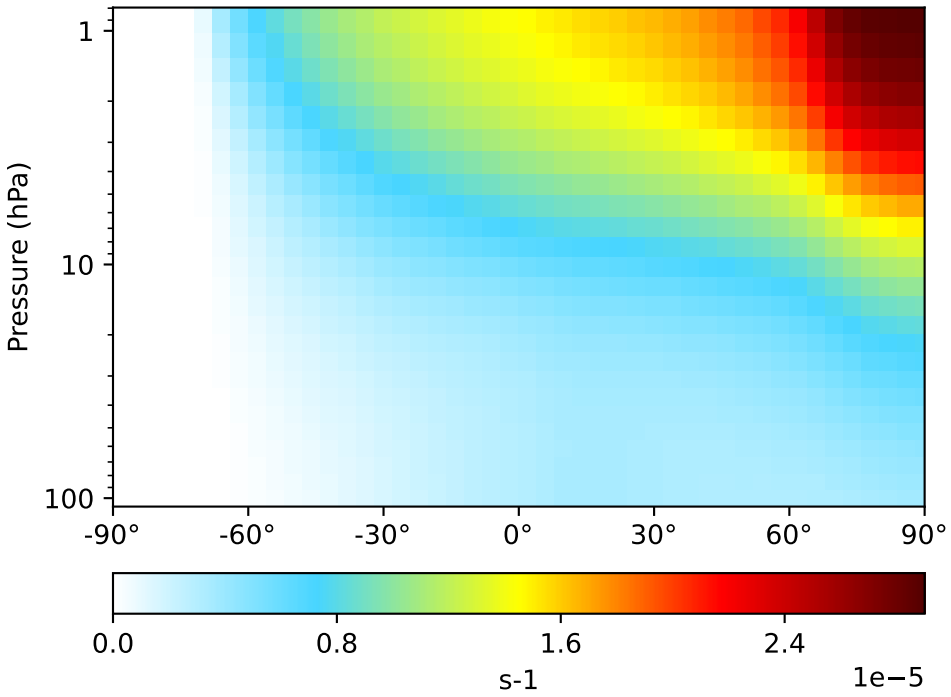




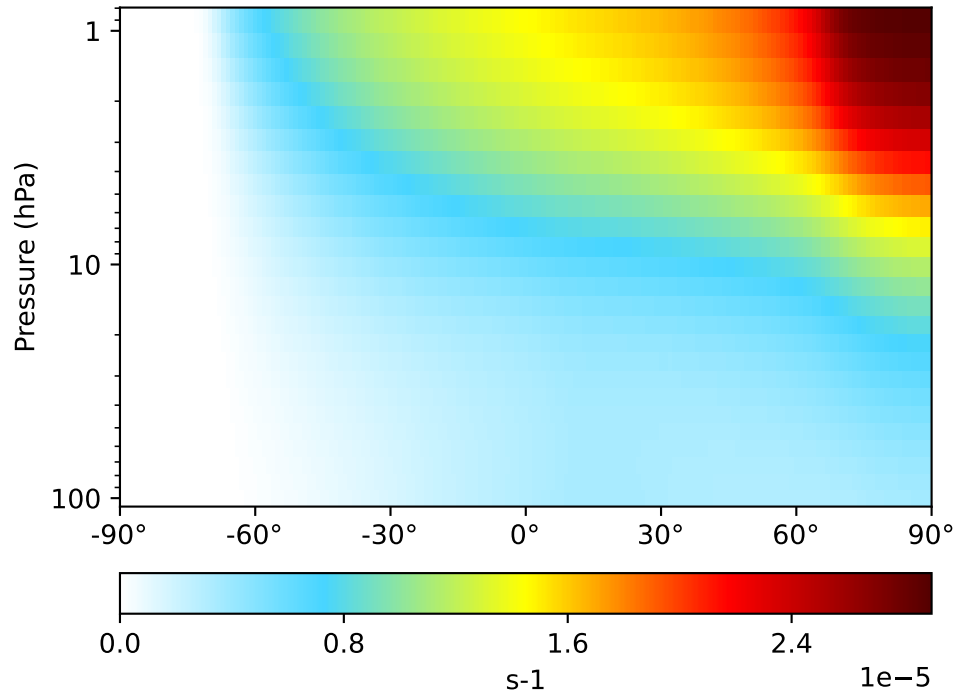


Jval_MPN, Zonal Mean

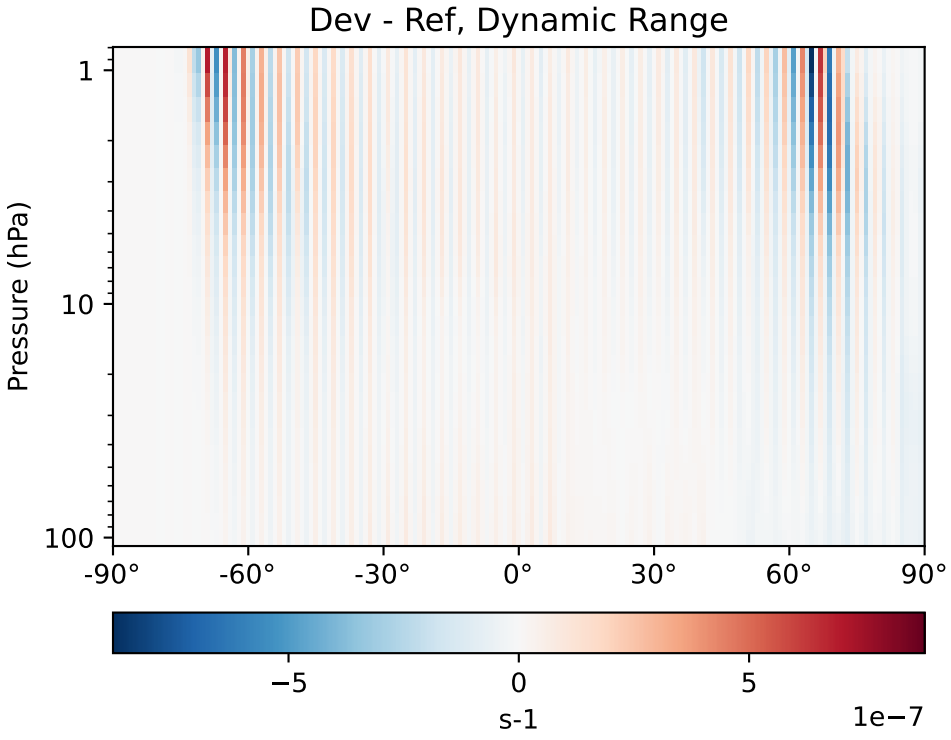
GCC_13.4.0-rc.4 (Ref)
4.0x5.0



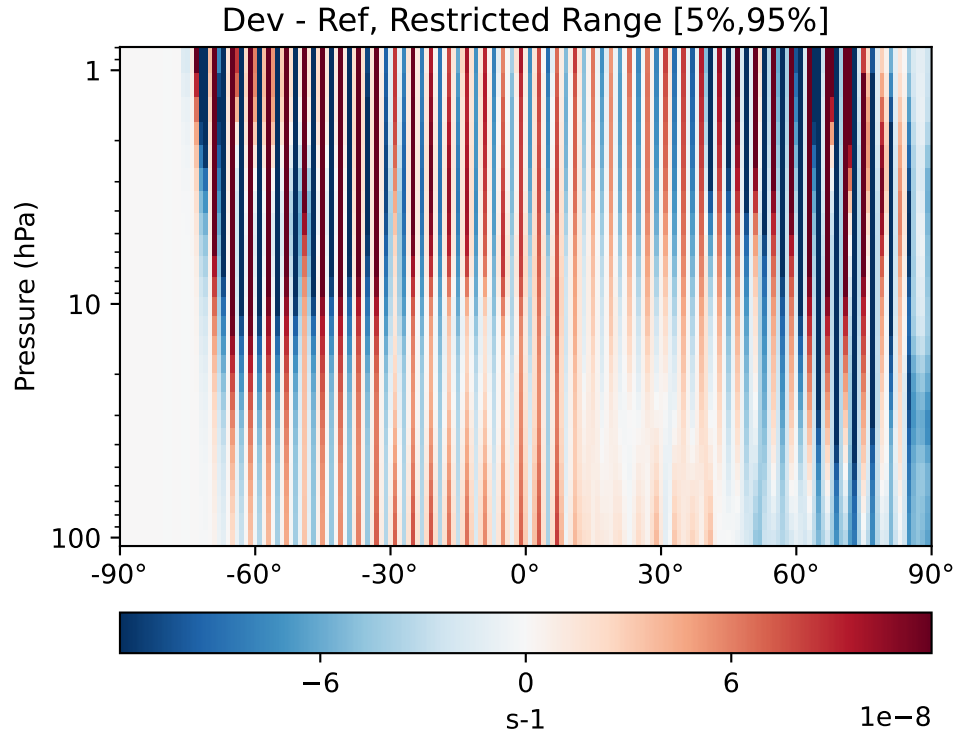
GCHP_13.4.0-rc.4 (Dev)
1x1.25 regridded from c48



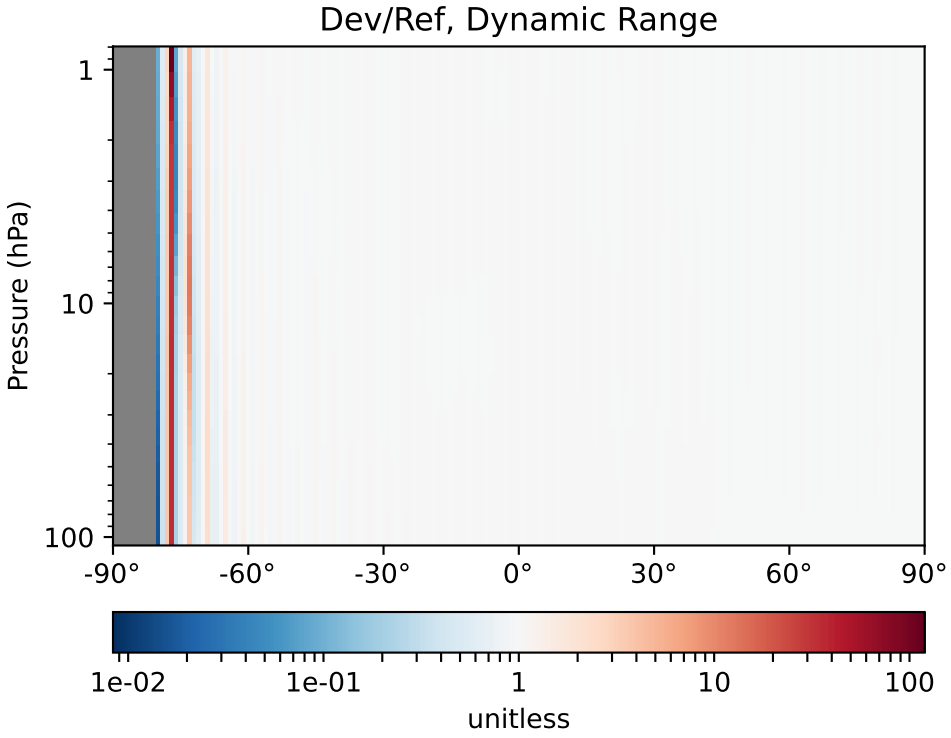
Difference (1x1.25)
Dev - Ref, Dynamic Range



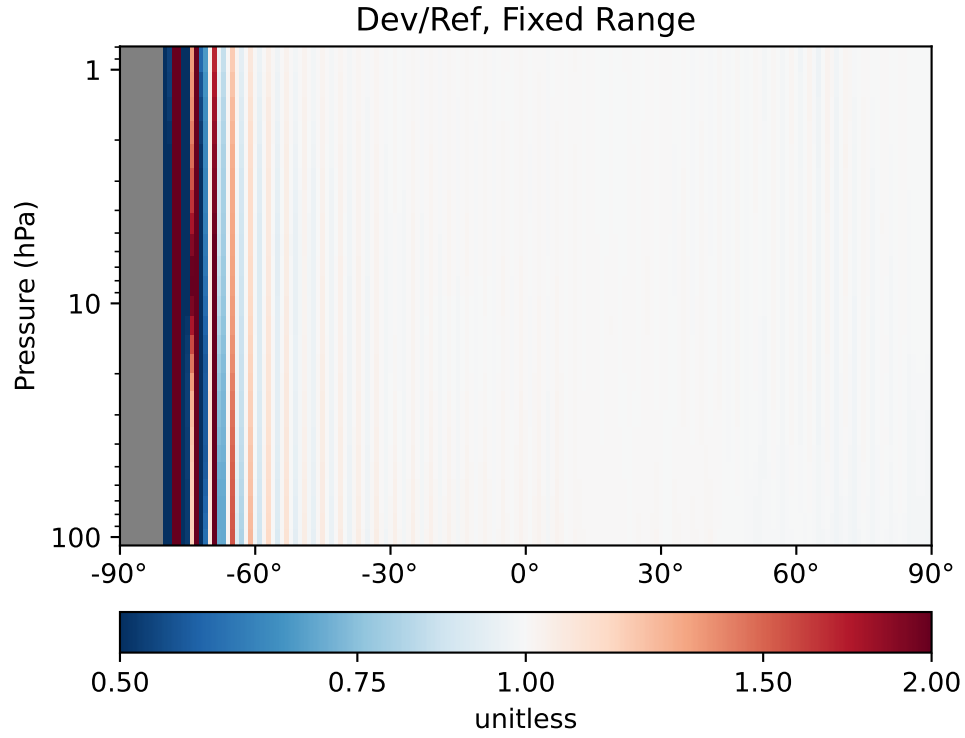
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



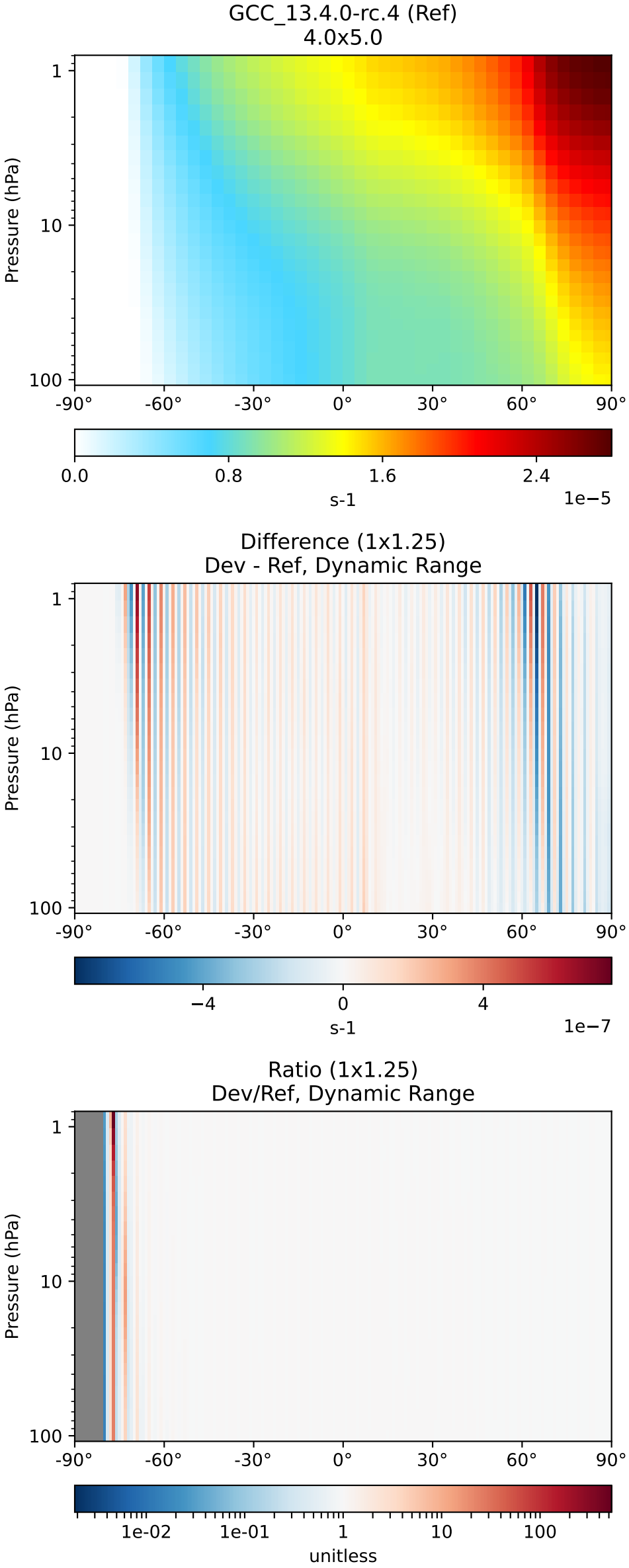
Ratio (1x1.25)
Dev/Ref, Dynamic Range

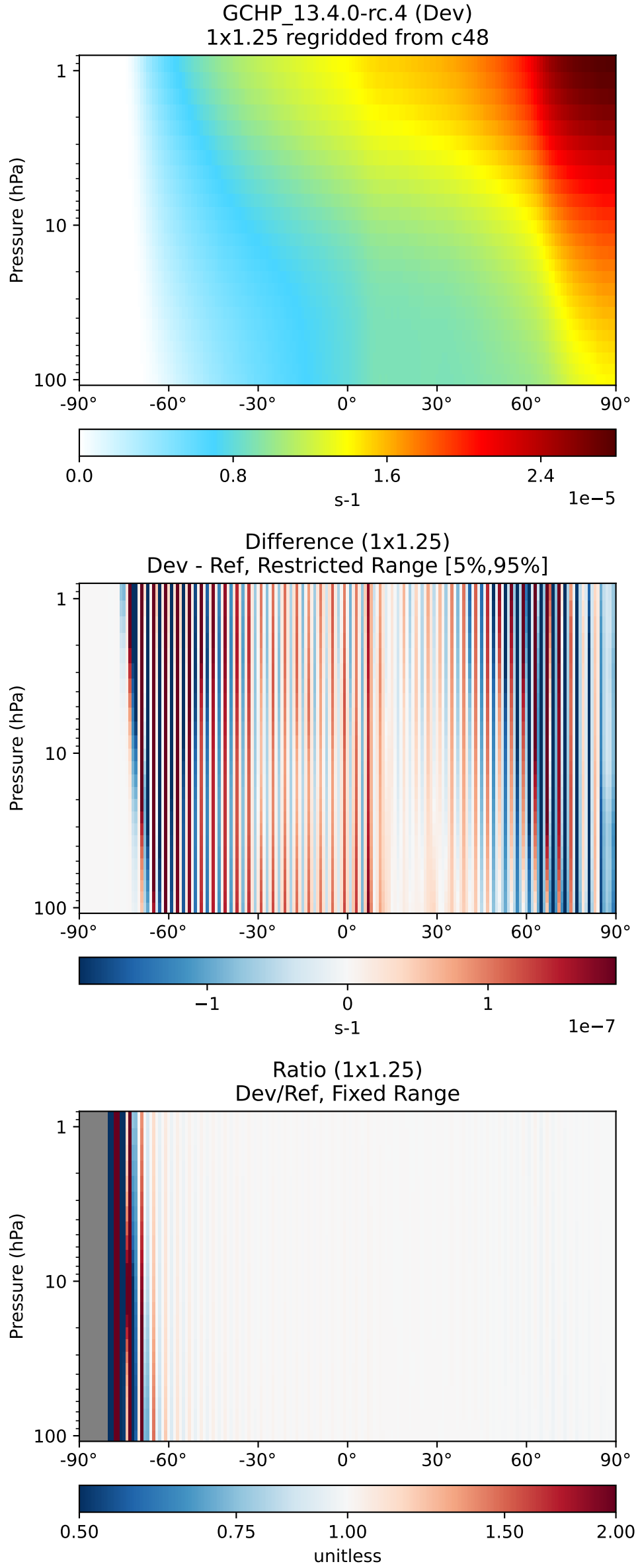


Ratio (1x1.25)
Dev/Ref, Fixed Range

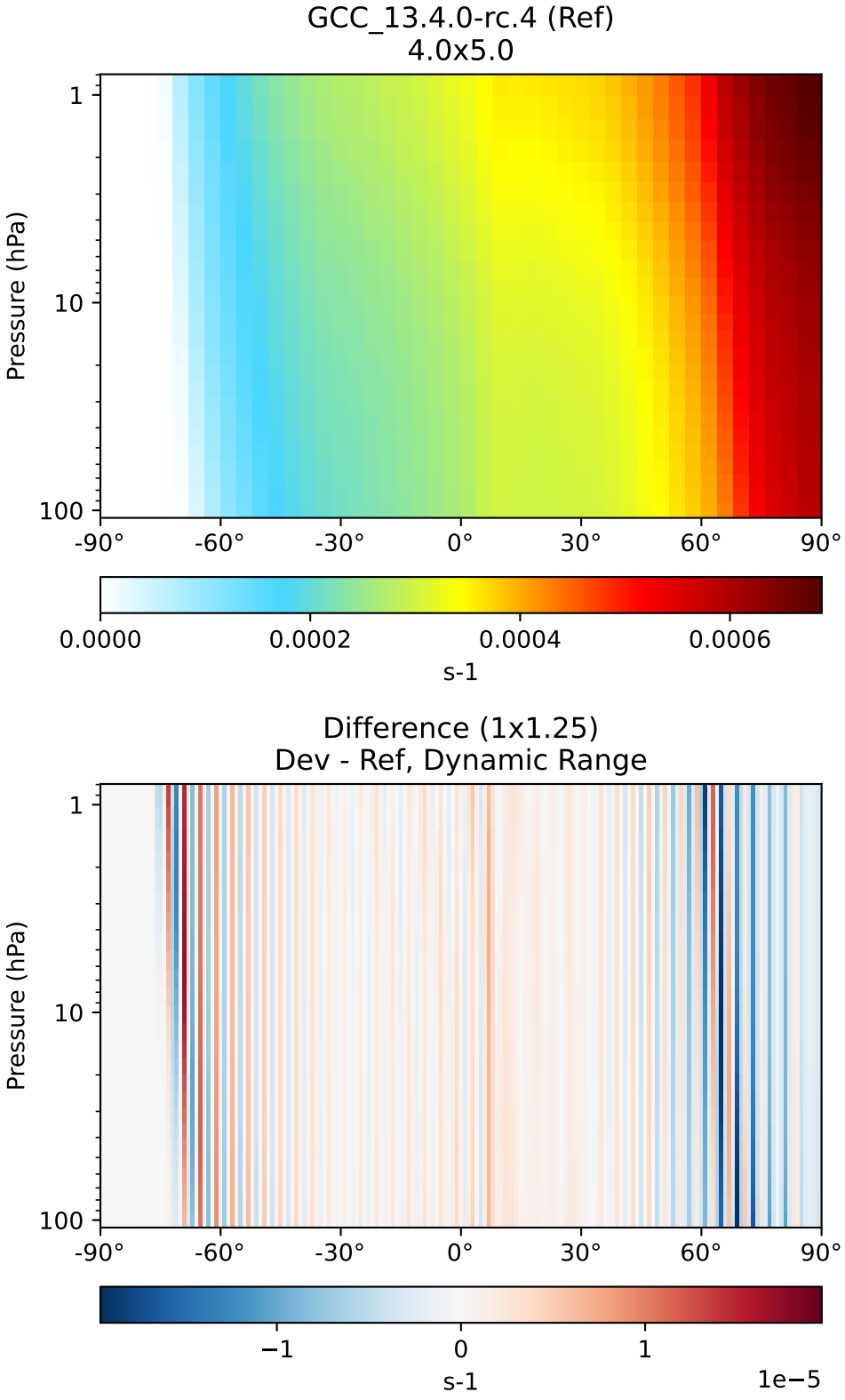


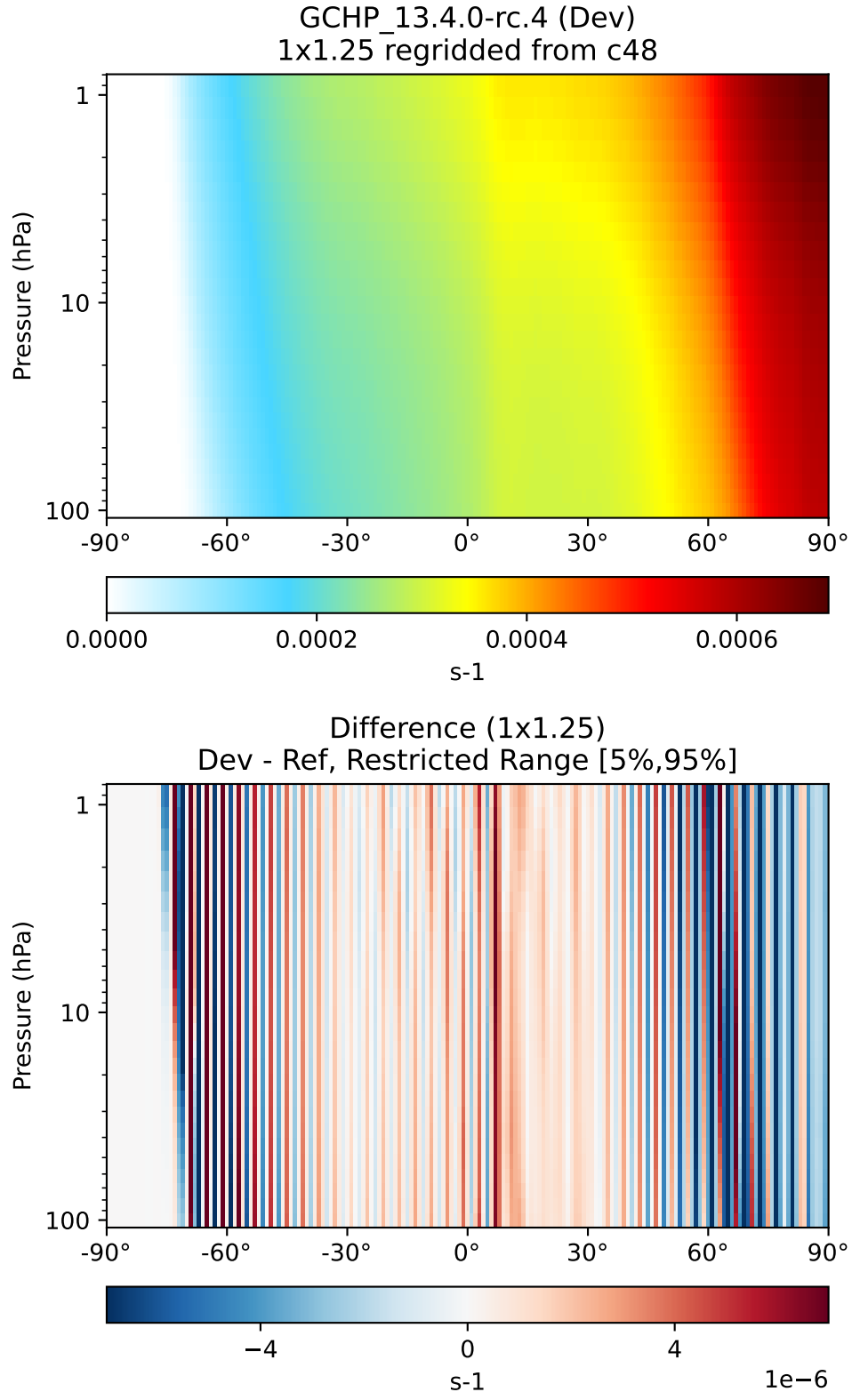
Jval_MVK, Zonal Mean

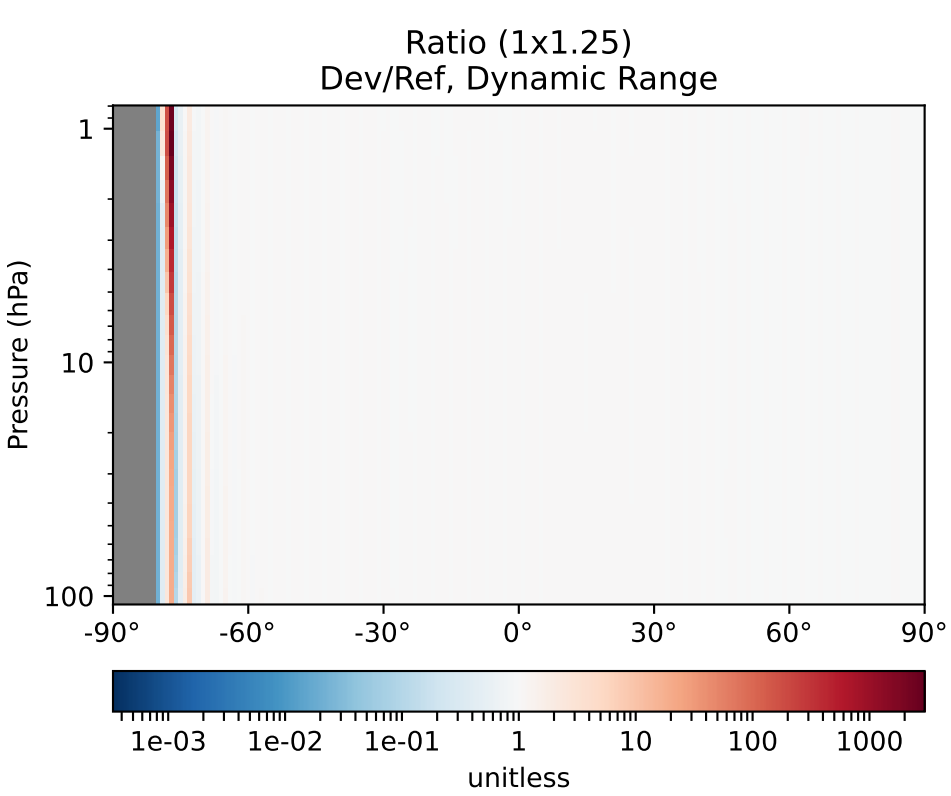


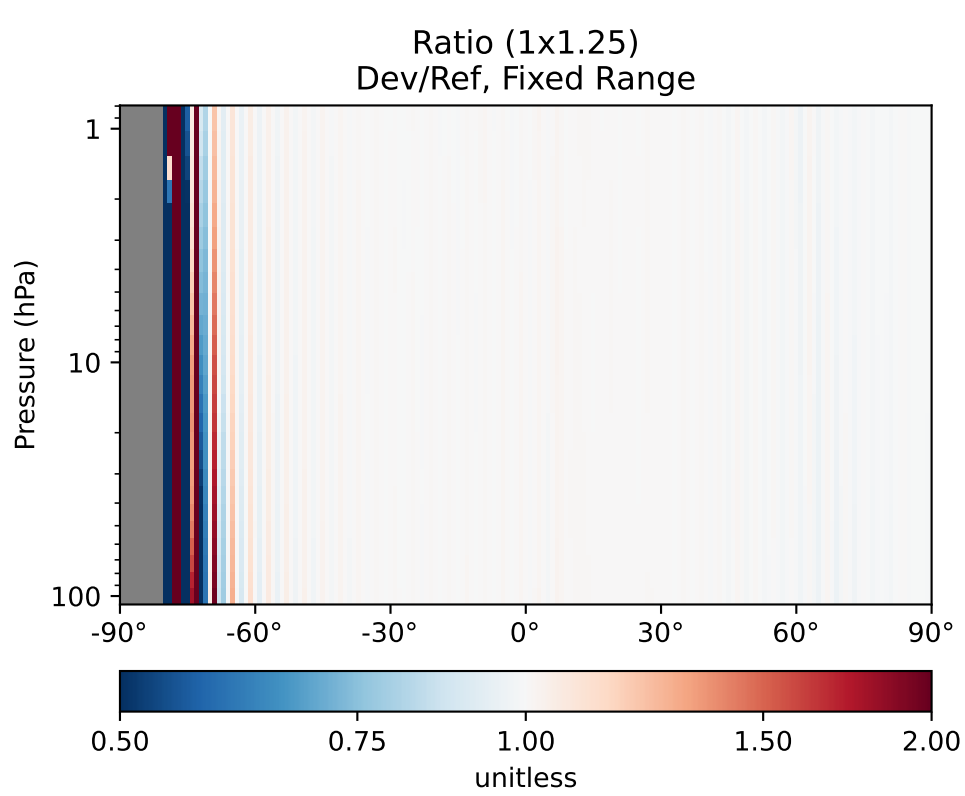


Jval_MVKHC, Zonal Mean

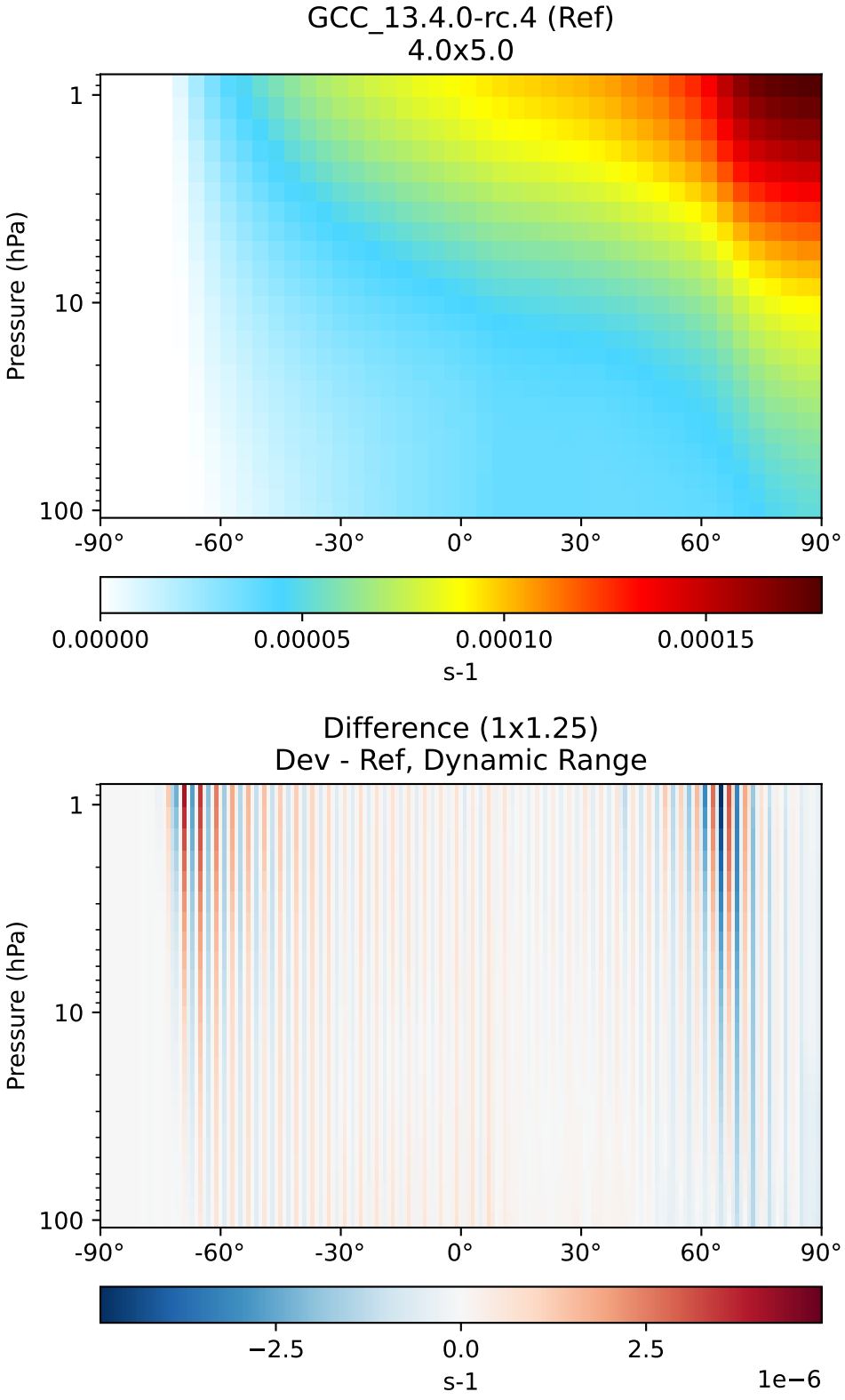


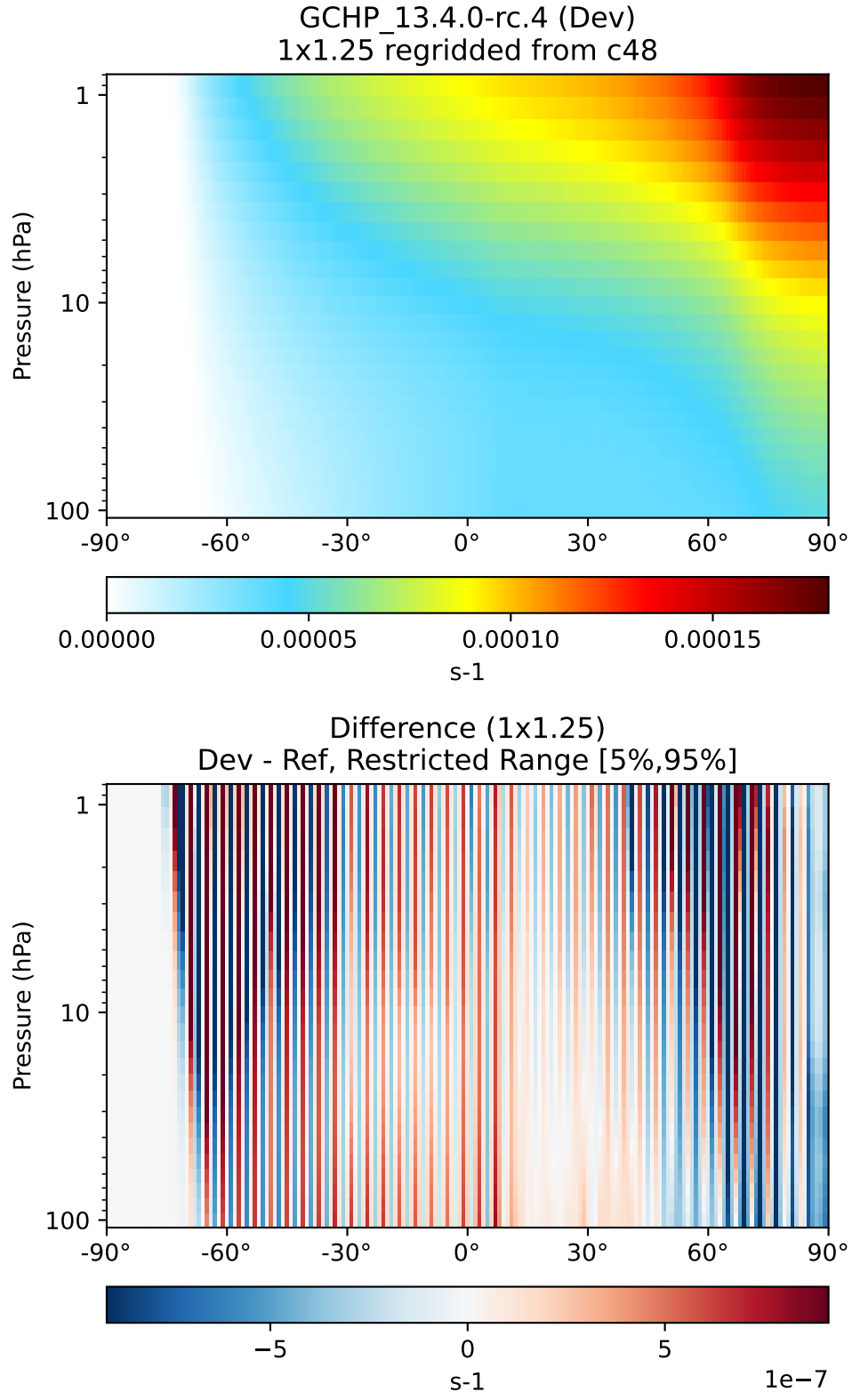


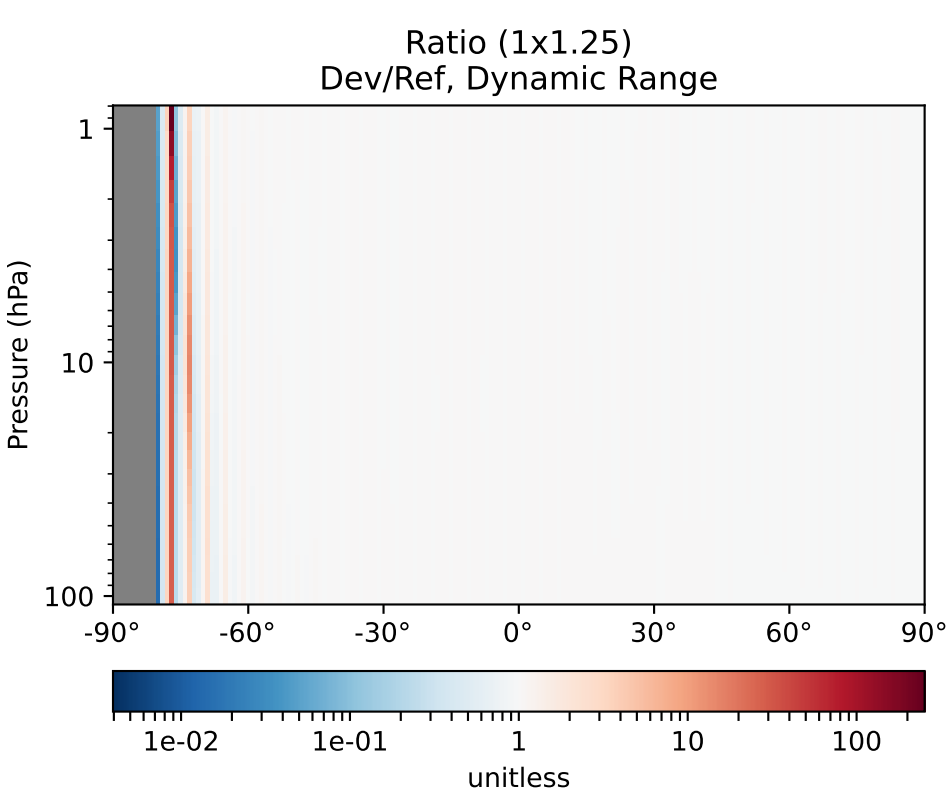


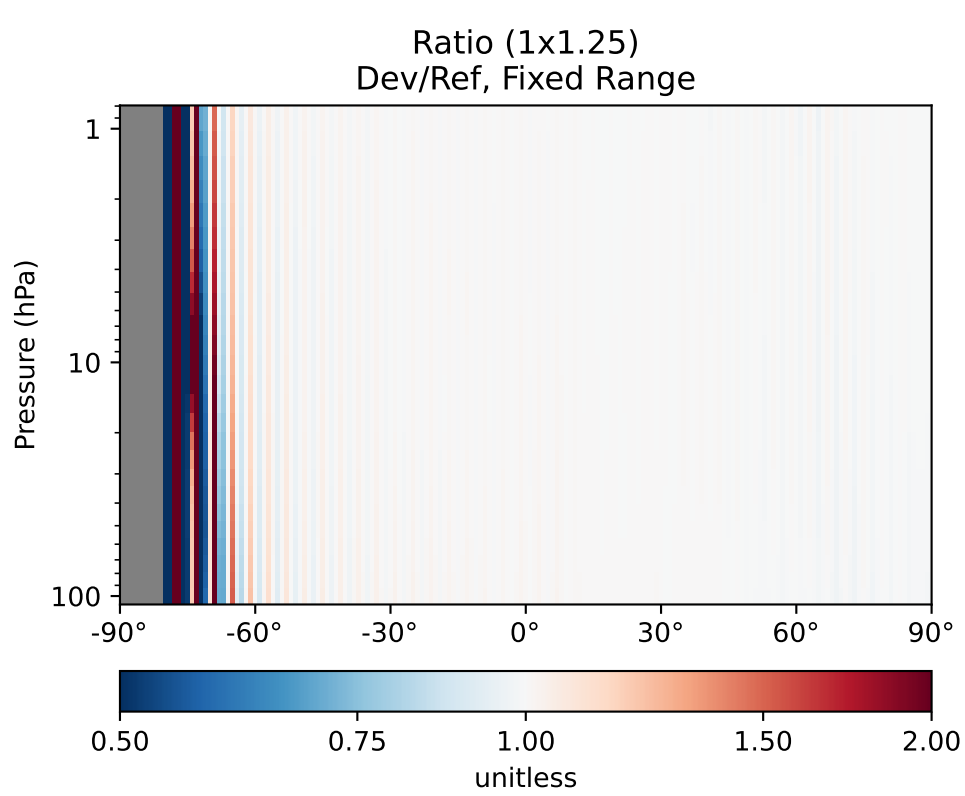


Jval_MVKHCB, Zonal Mean

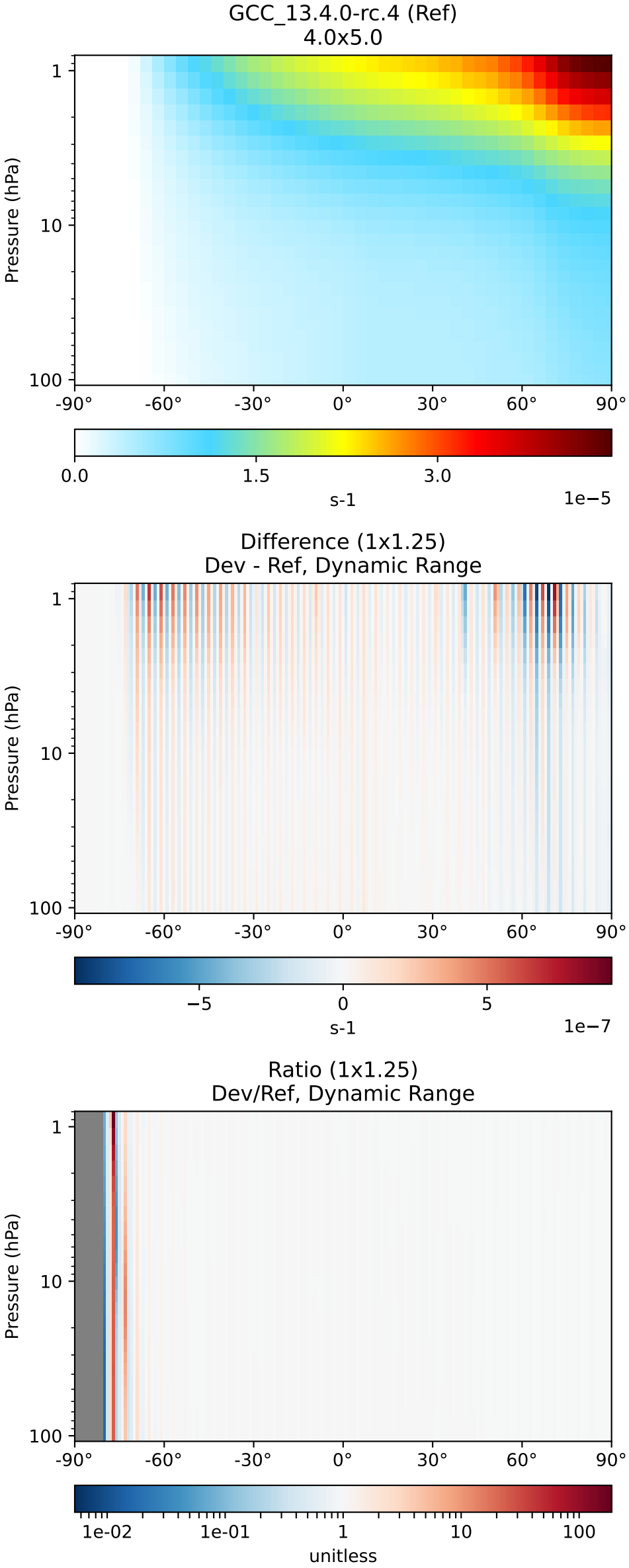


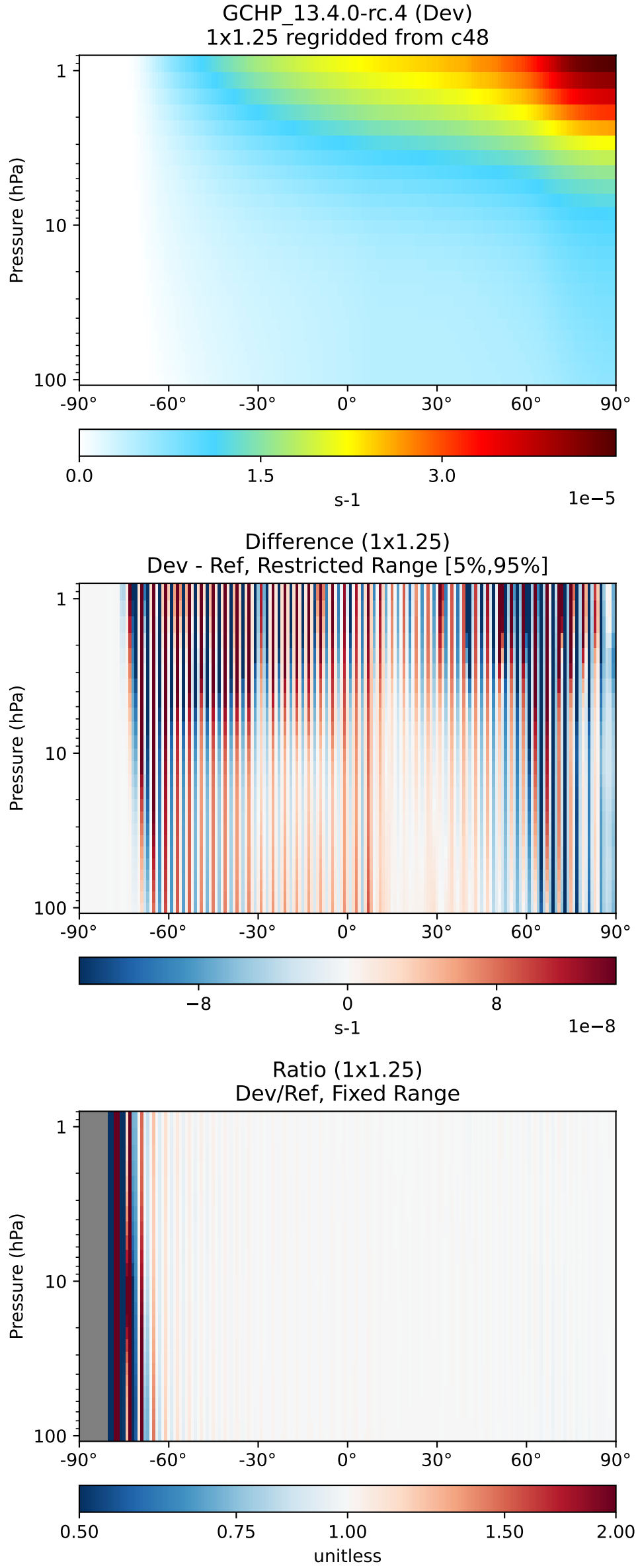




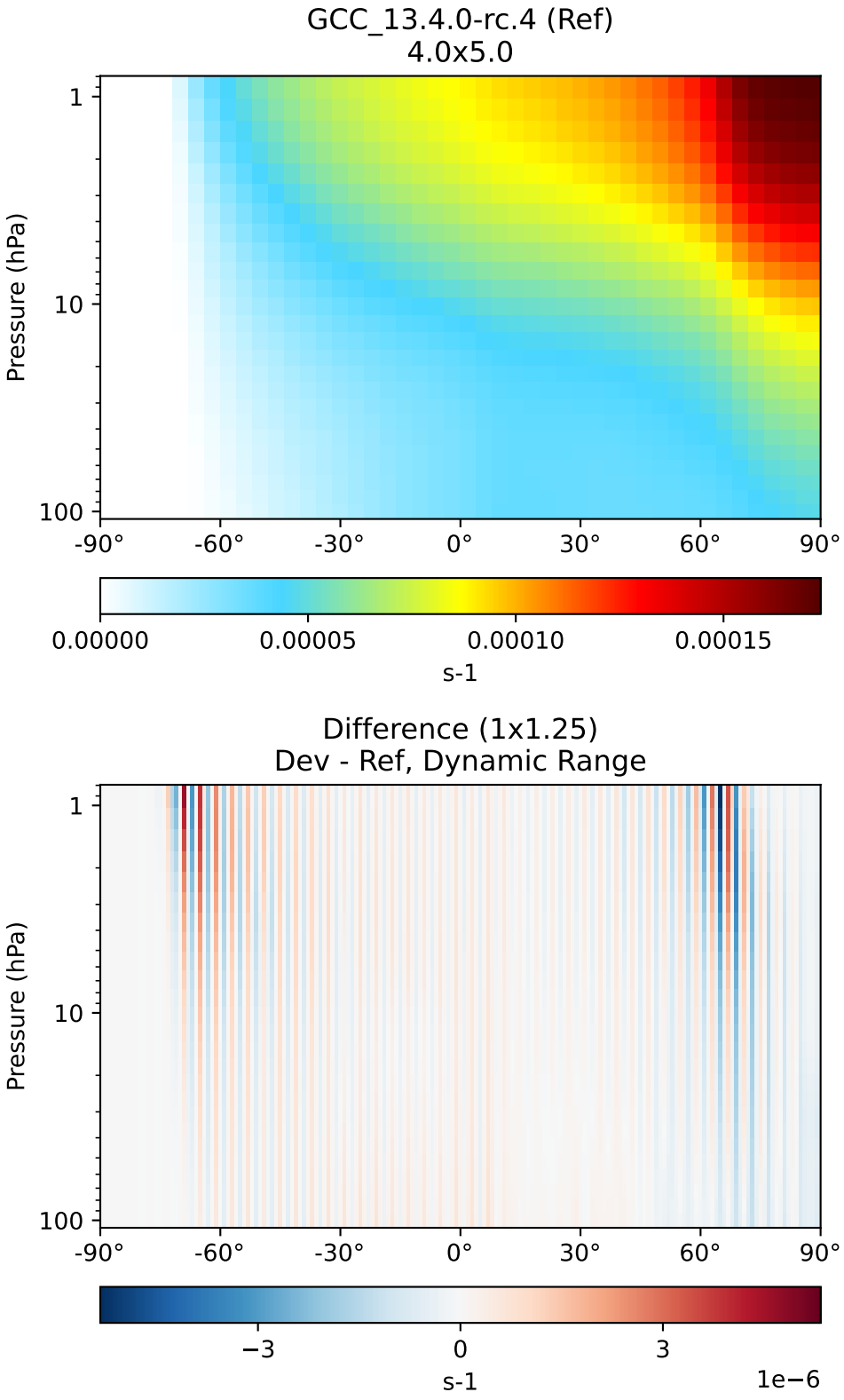


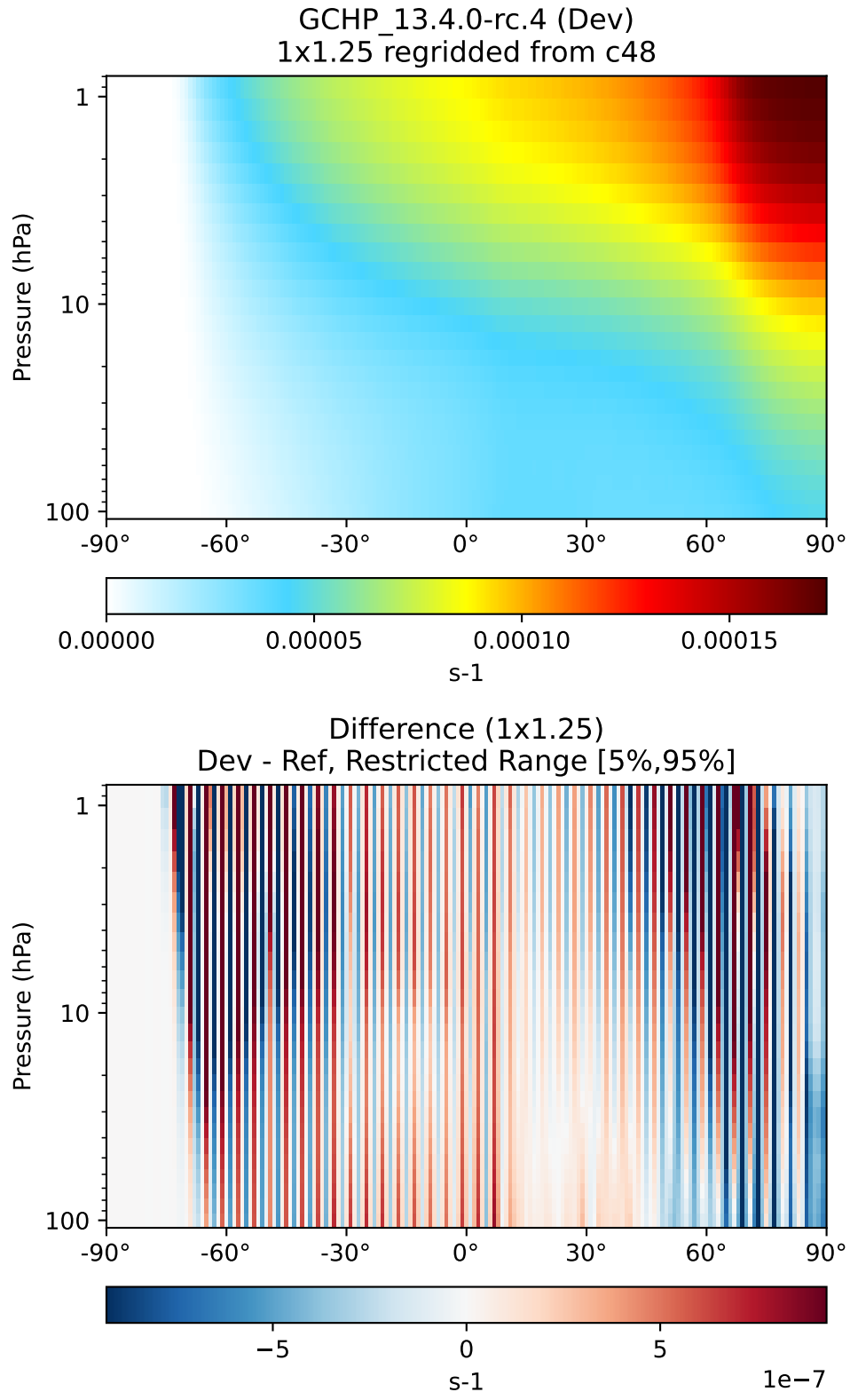
Jval_MVKHP, Zonal Mean

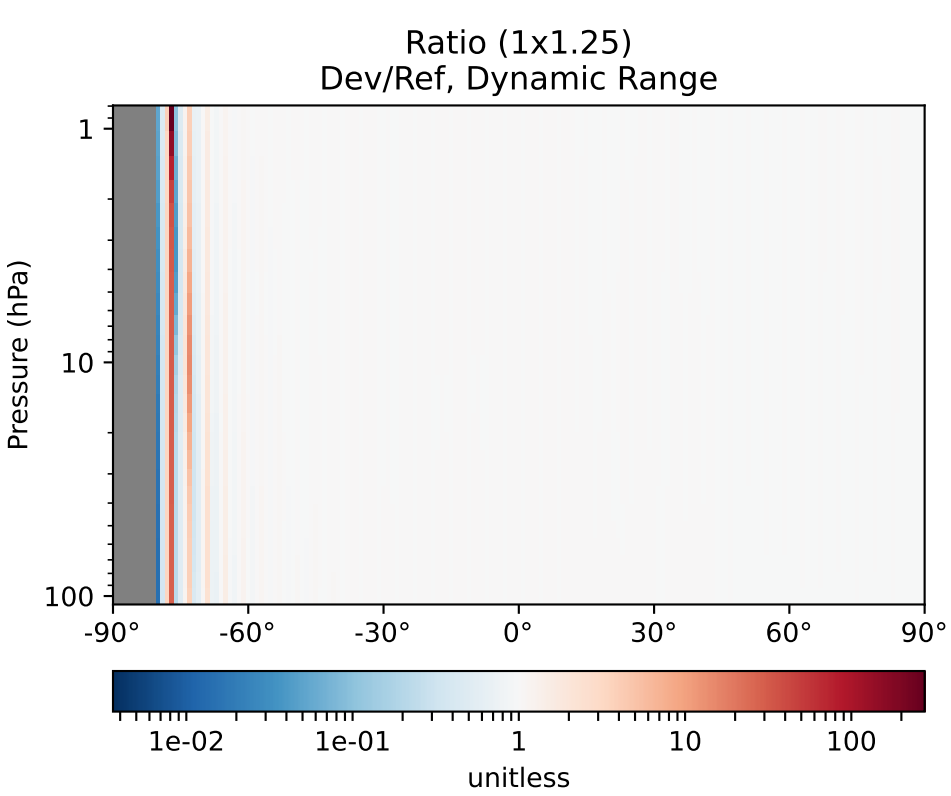


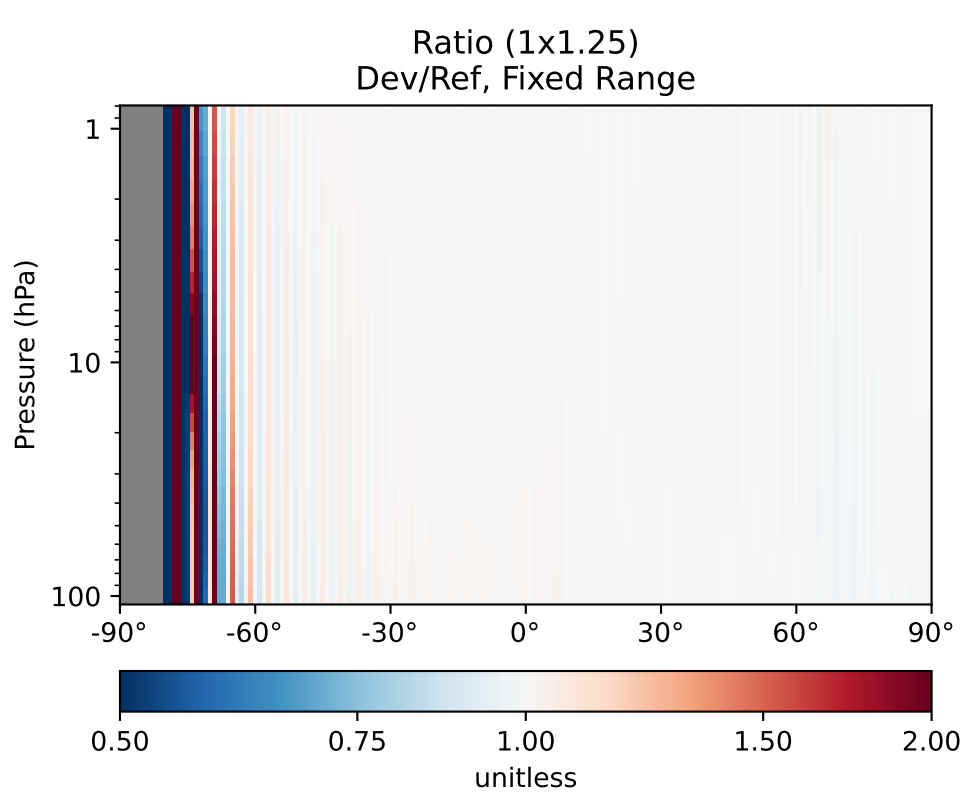


Jval_MVKN, Zonal Mean

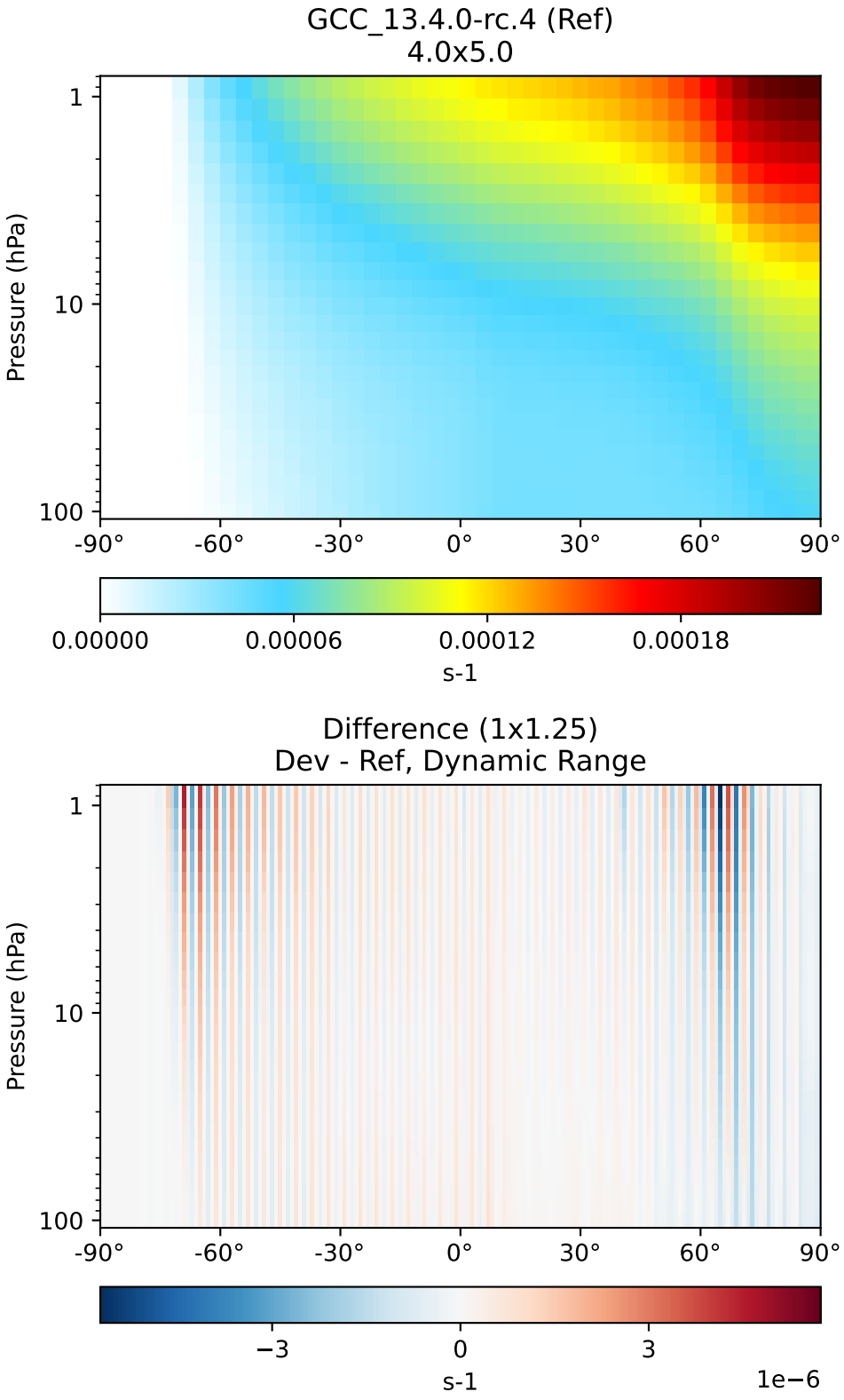


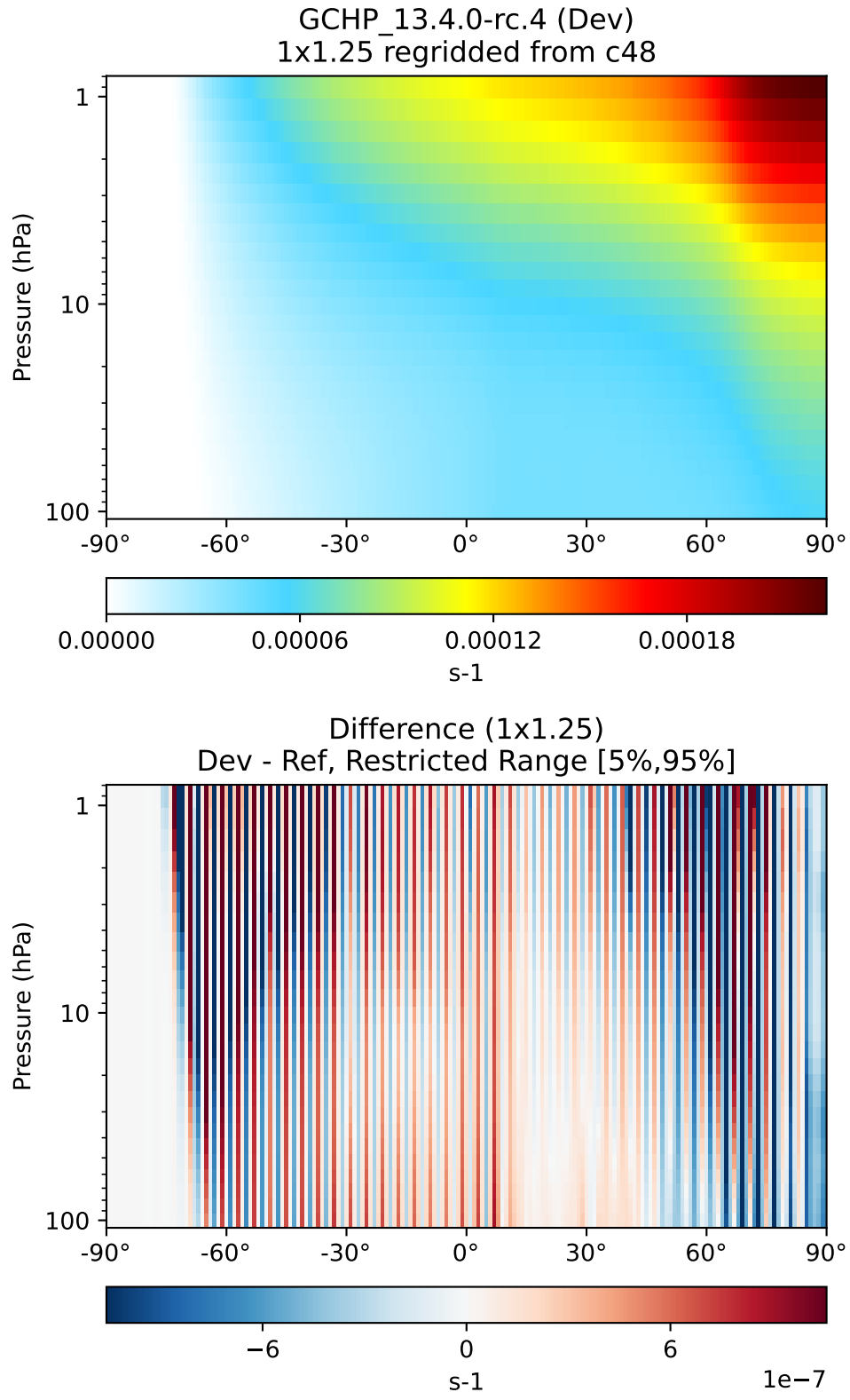


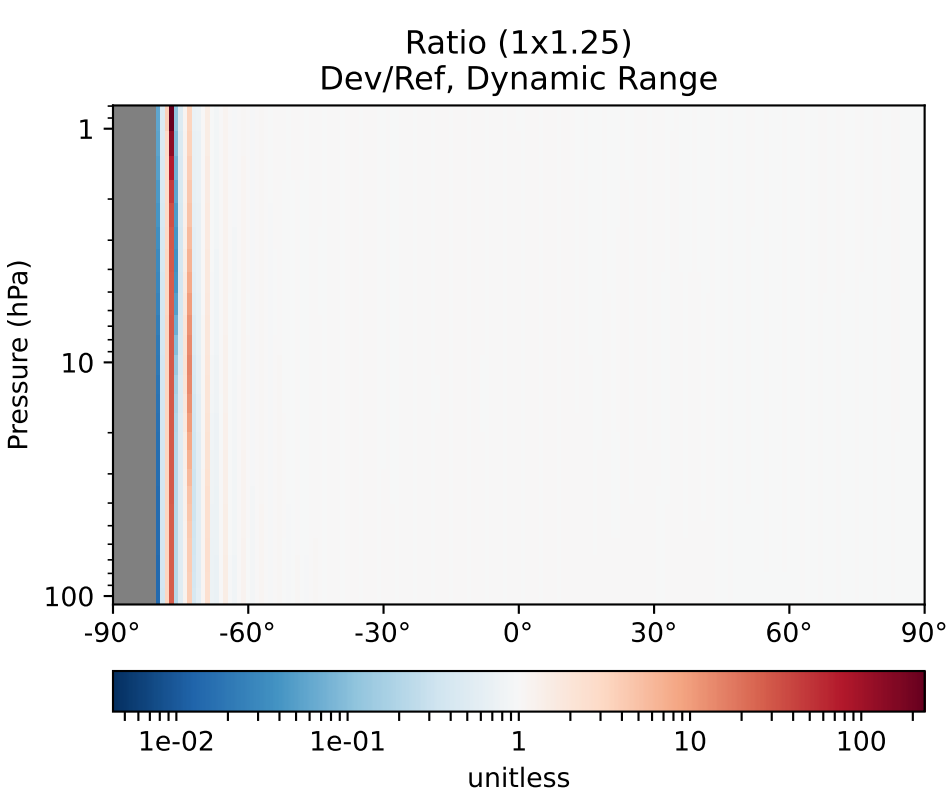


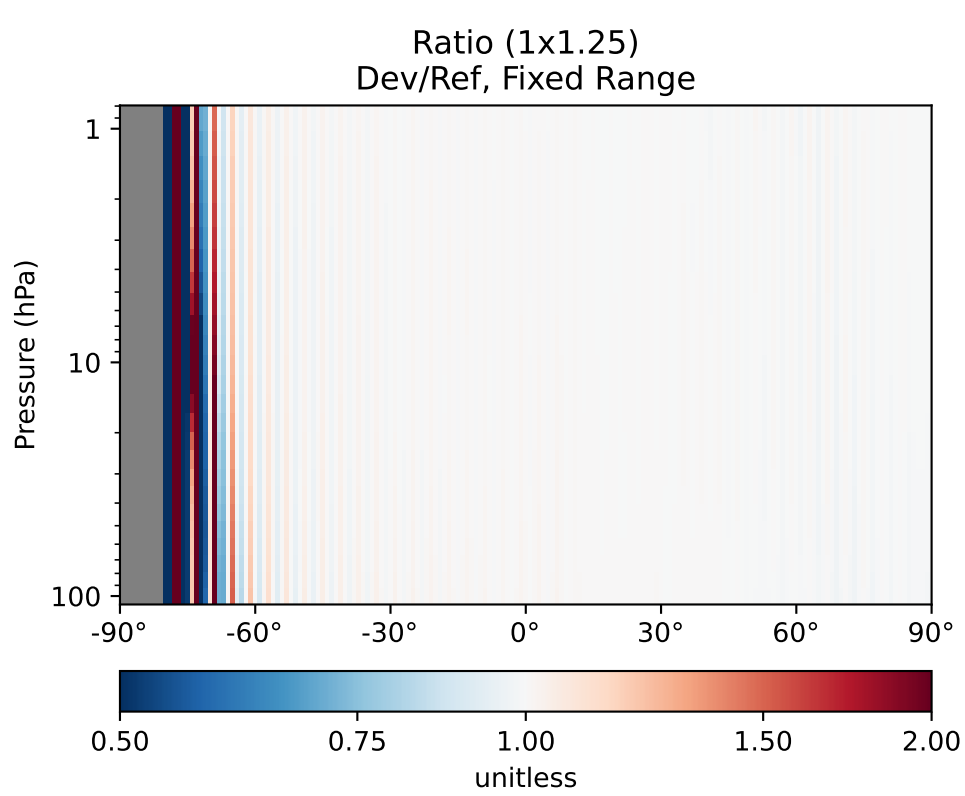


Jval_MVKPC, Zonal Mean

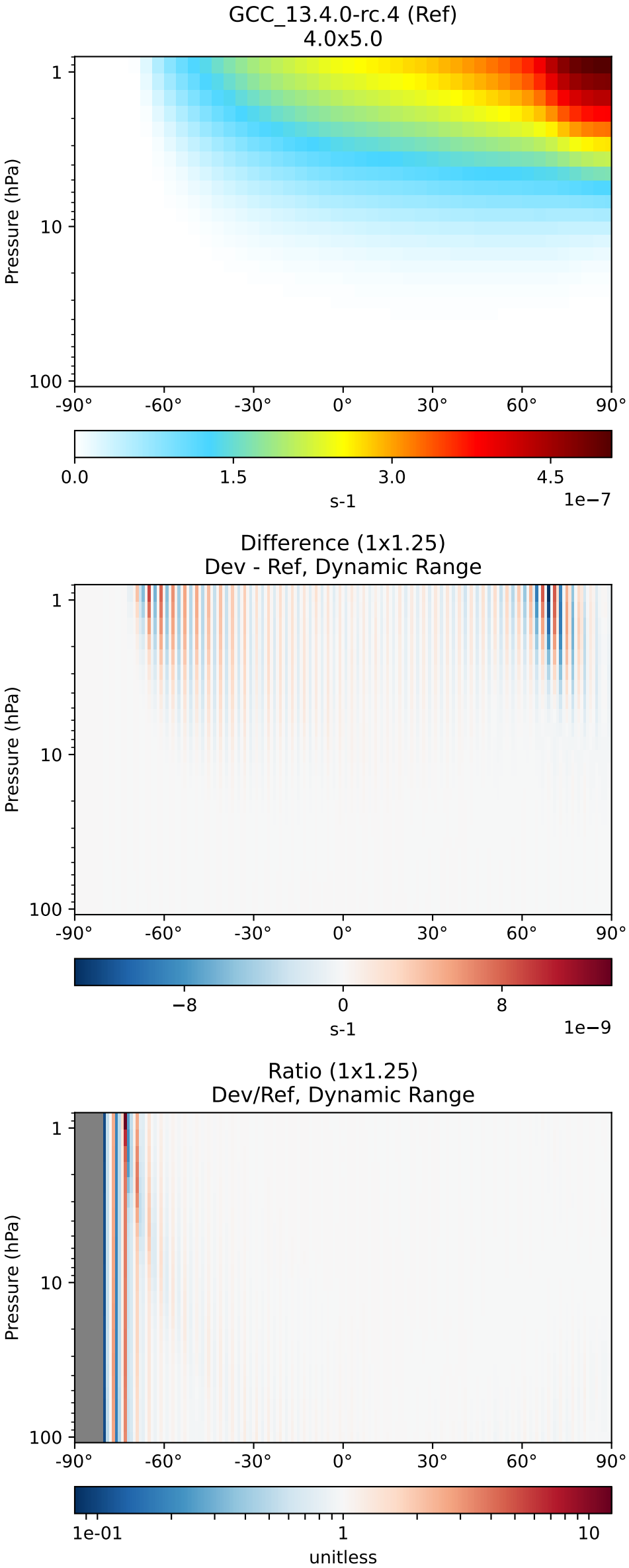


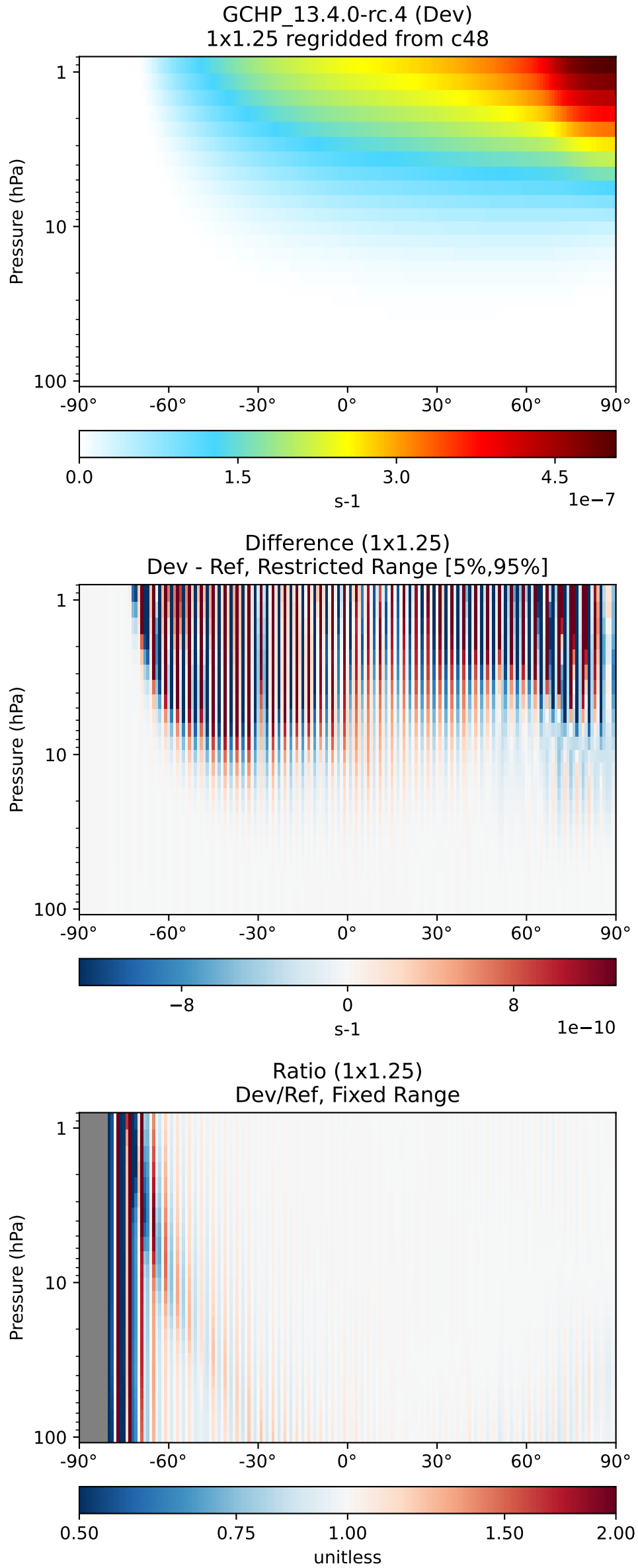




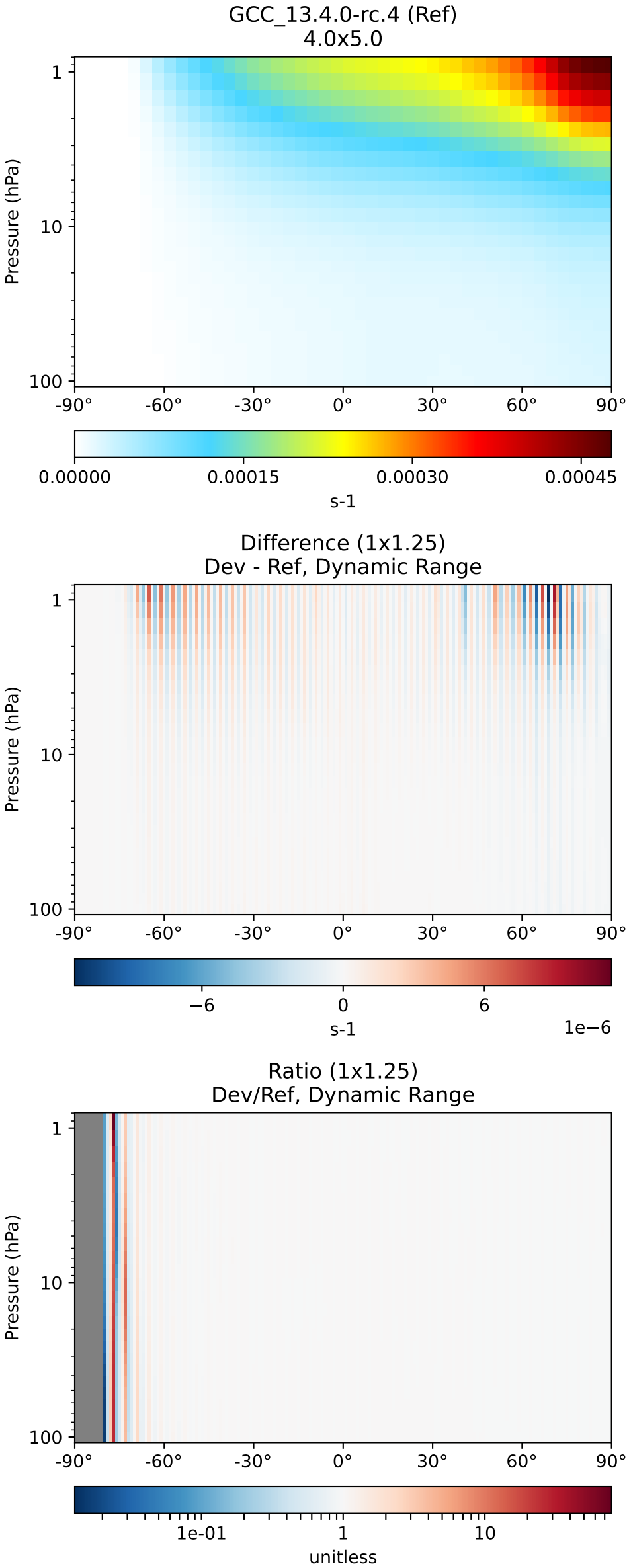


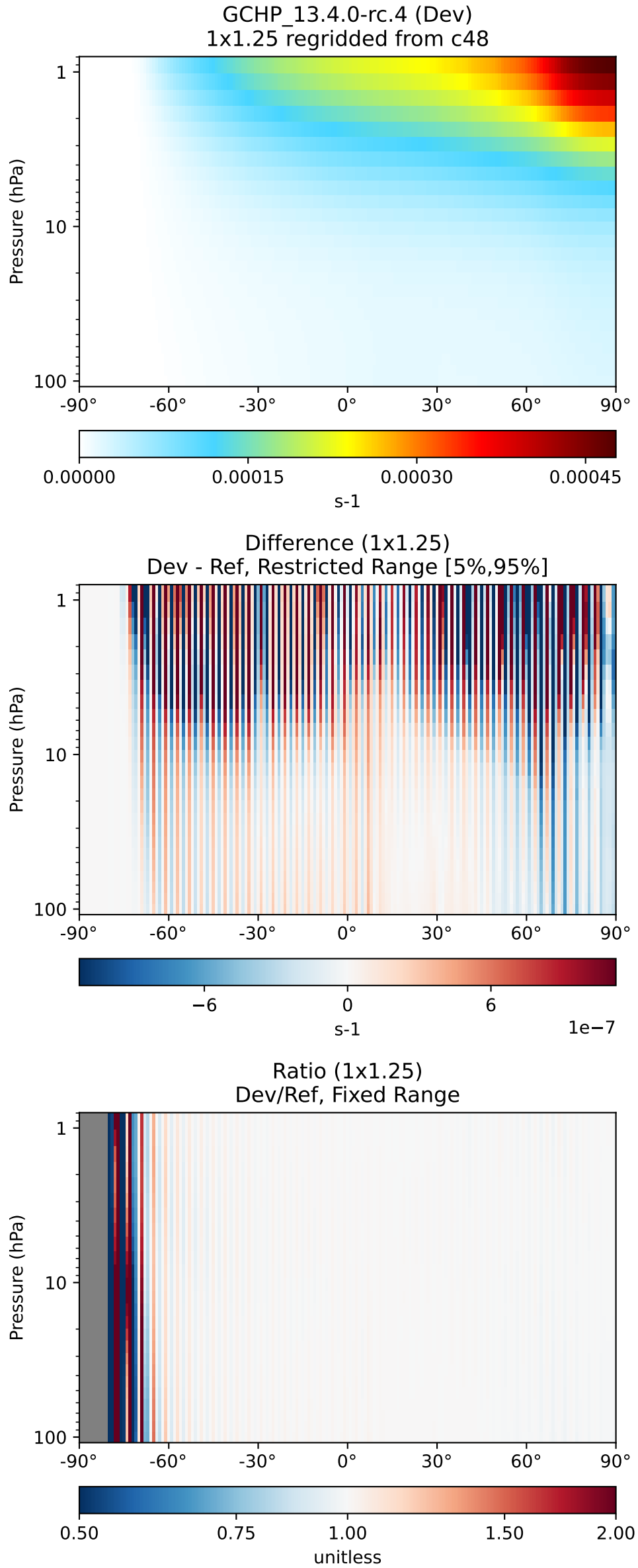
Jval_N2O, Zonal Mean





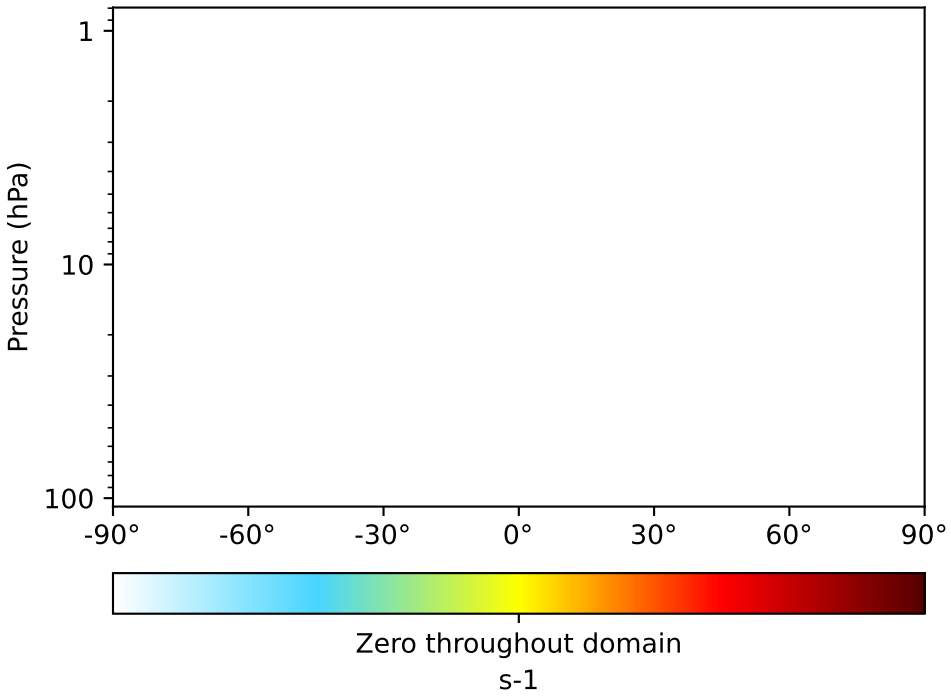
Jval_N2O5, Zonal Mean



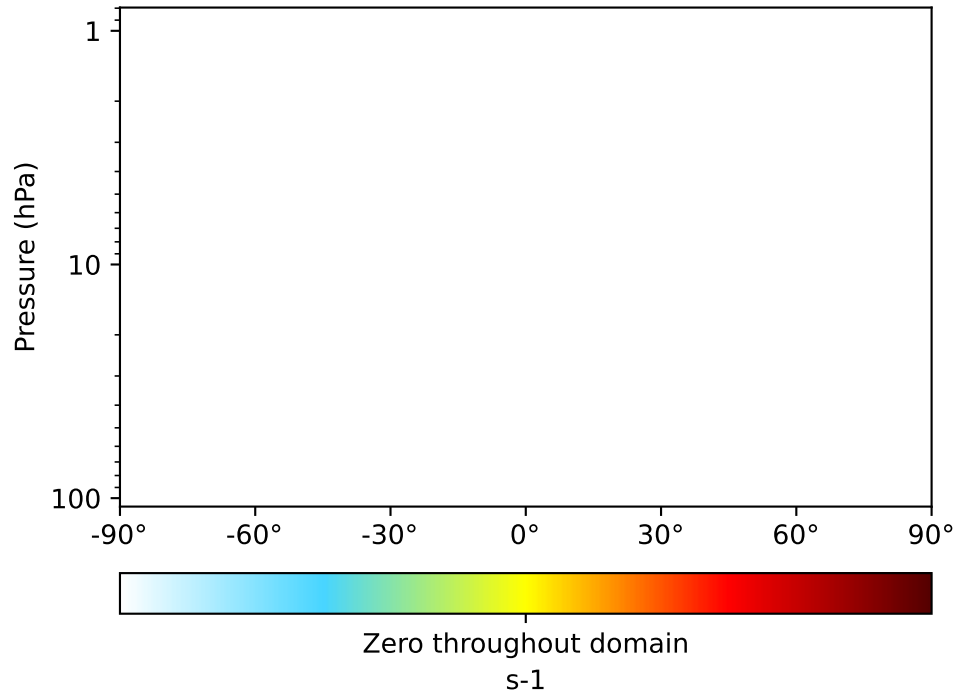


Jval_NIT, Zonal Mean

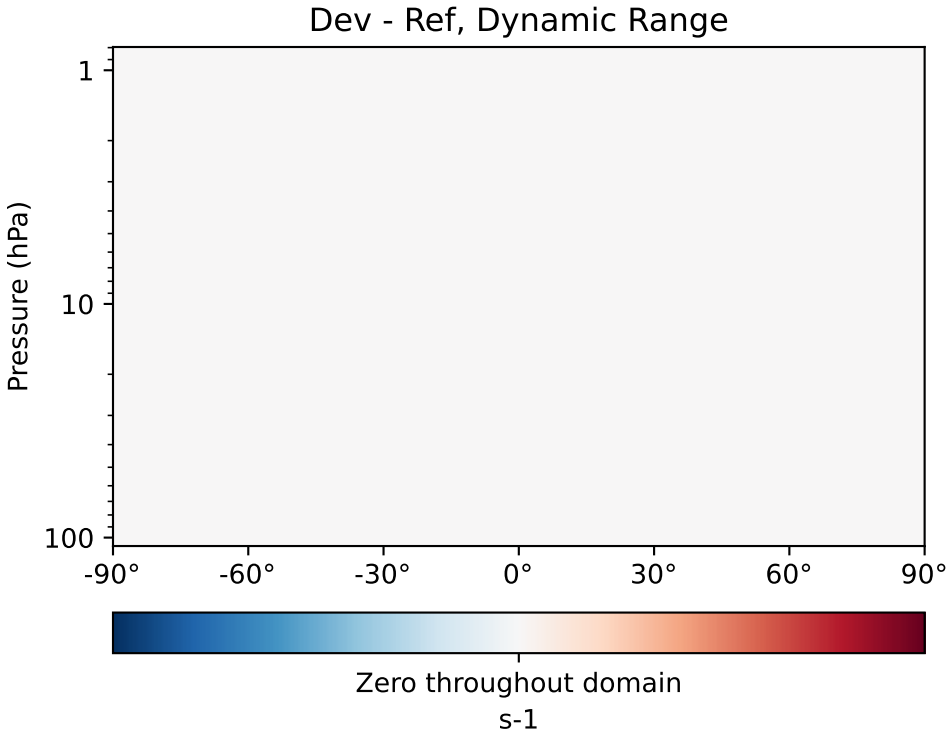
GCC_13.4.0-rc.4 (Ref)
4.0x5.0



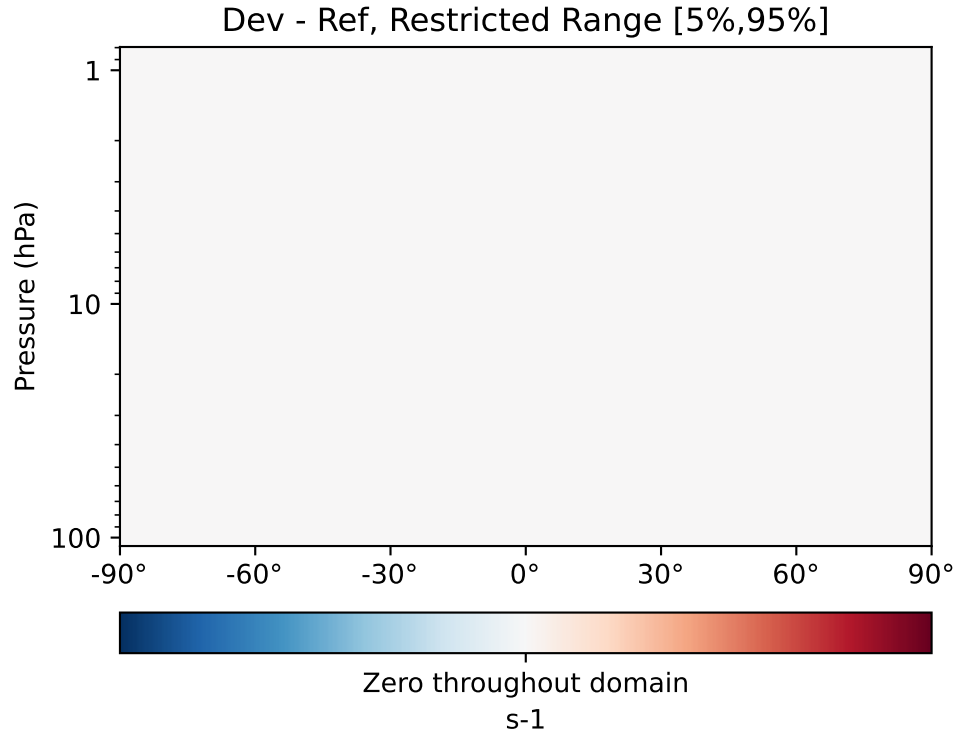
GCHP_13.4.0-rc.4 (Dev)
1x1.25 regridded from c48



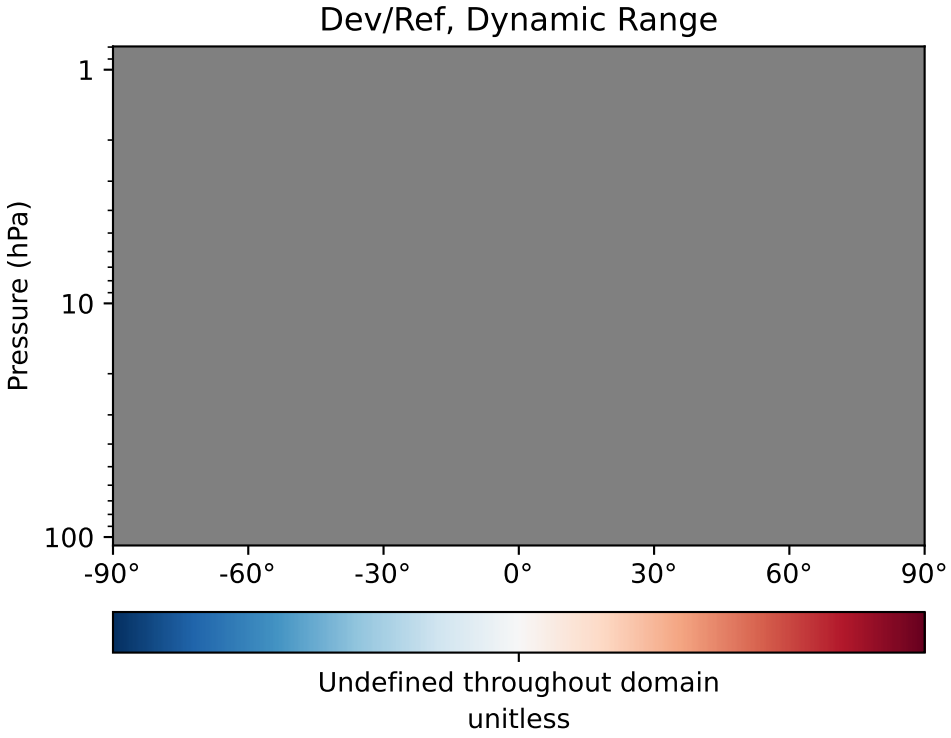
Difference (1x1.25)
Dev - Ref, Dynamic Range



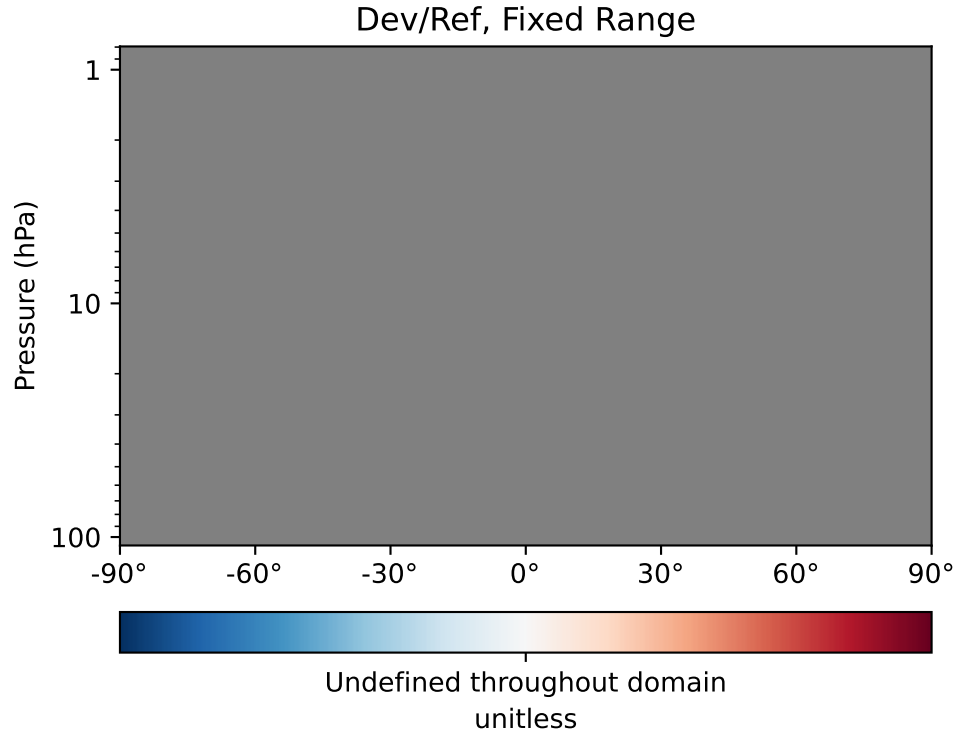
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



Ratio (1x1.25)
Dev/Ref, Dynamic Range



Ratio (1x1.25)
Dev/Ref, Fixed Range

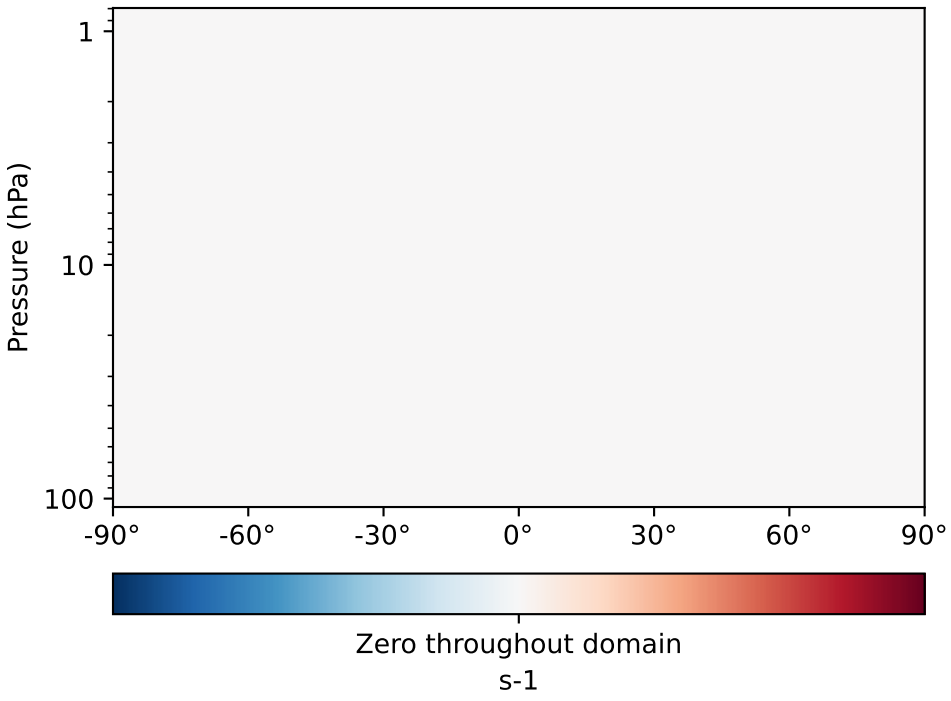


Jval_NITs, Zonal Mean

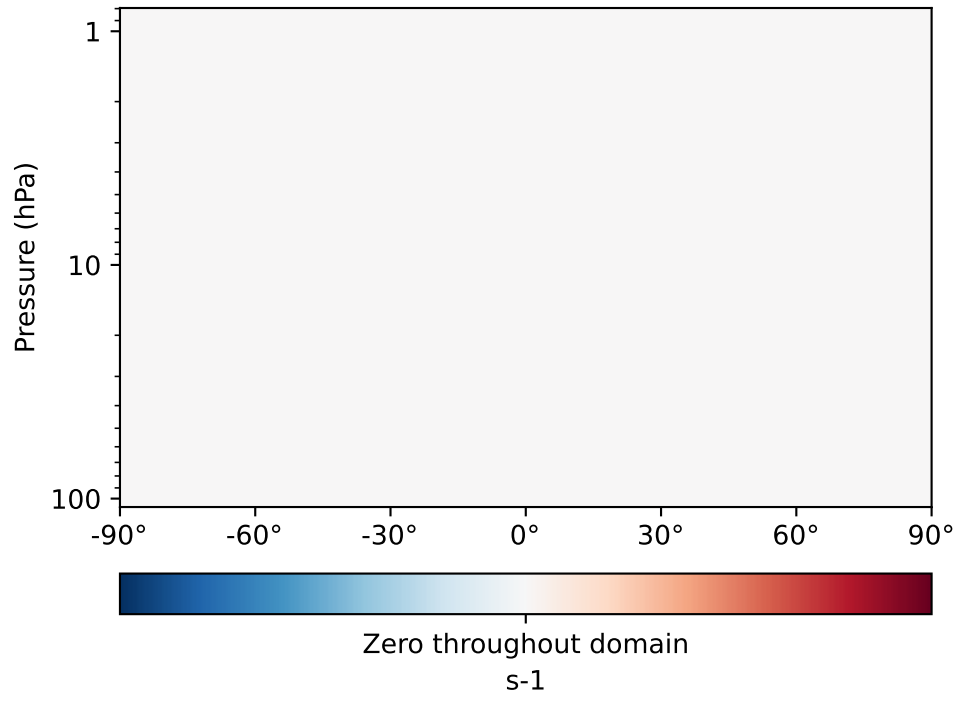
GCC_13.4.0-rc.4 (Ref)
4.0x5.0

GCHP_13.4.0-rc.4 (Dev)
1x1.25 regridded from c48

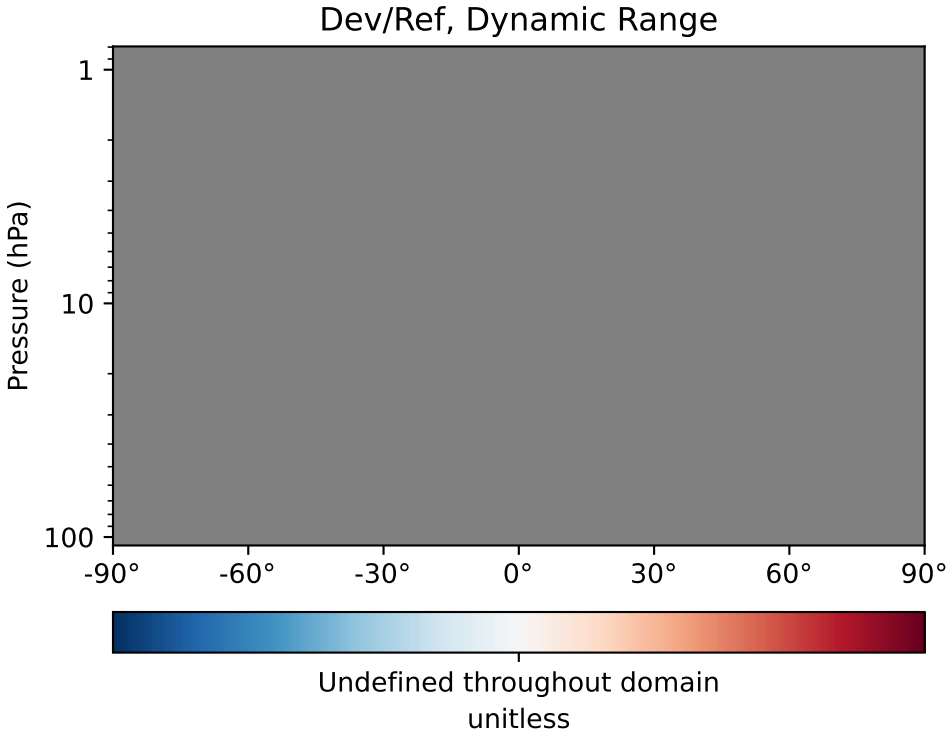
Difference (1x1.25)
Dev - Ref, Dynamic Range



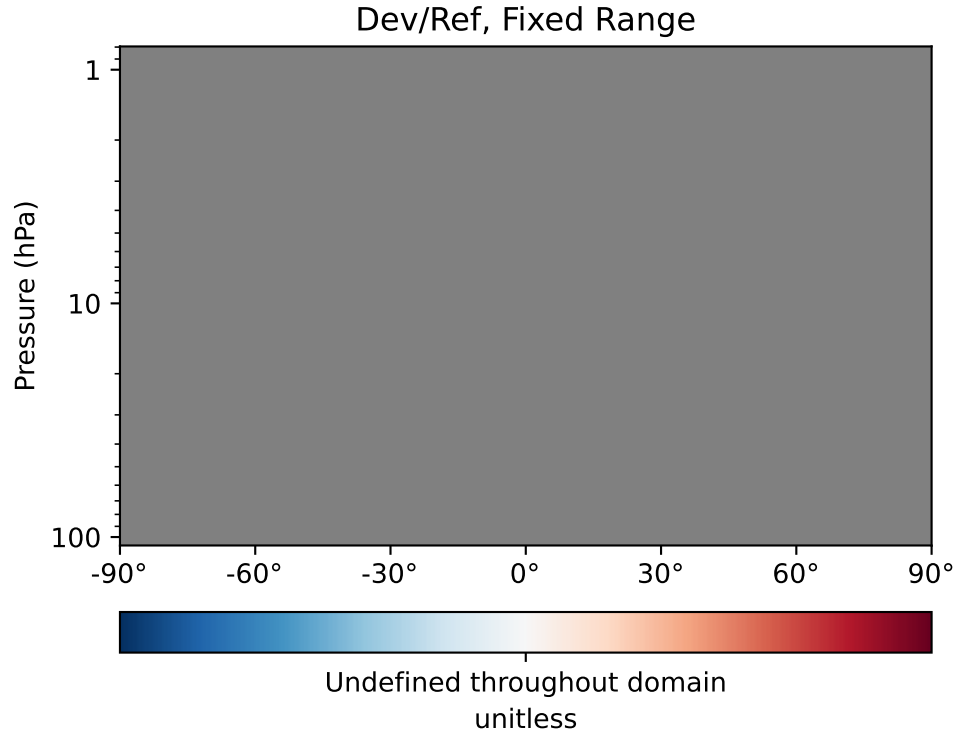
Difference (1x1.25)
Dev - Ref, Restricted Range [5%,95%]



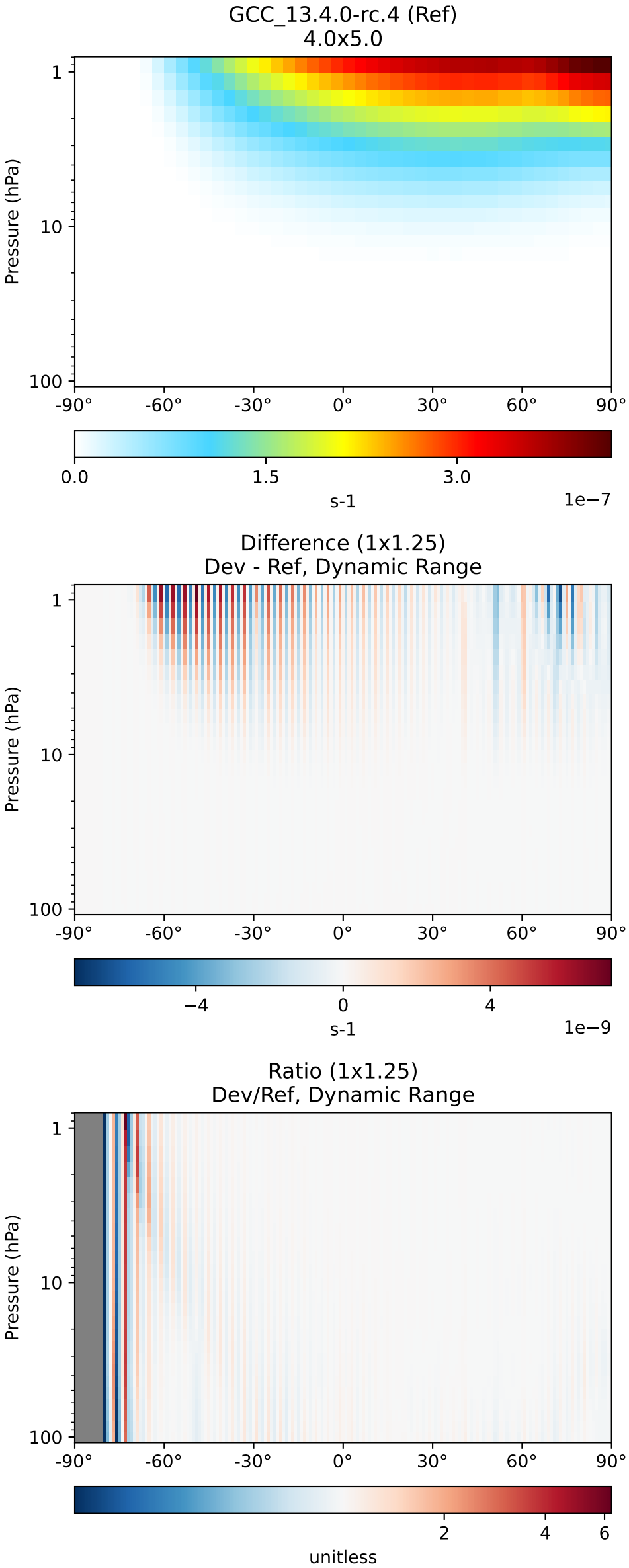
Ratio (1x1.25)
Dev/Ref, Dynamic Range

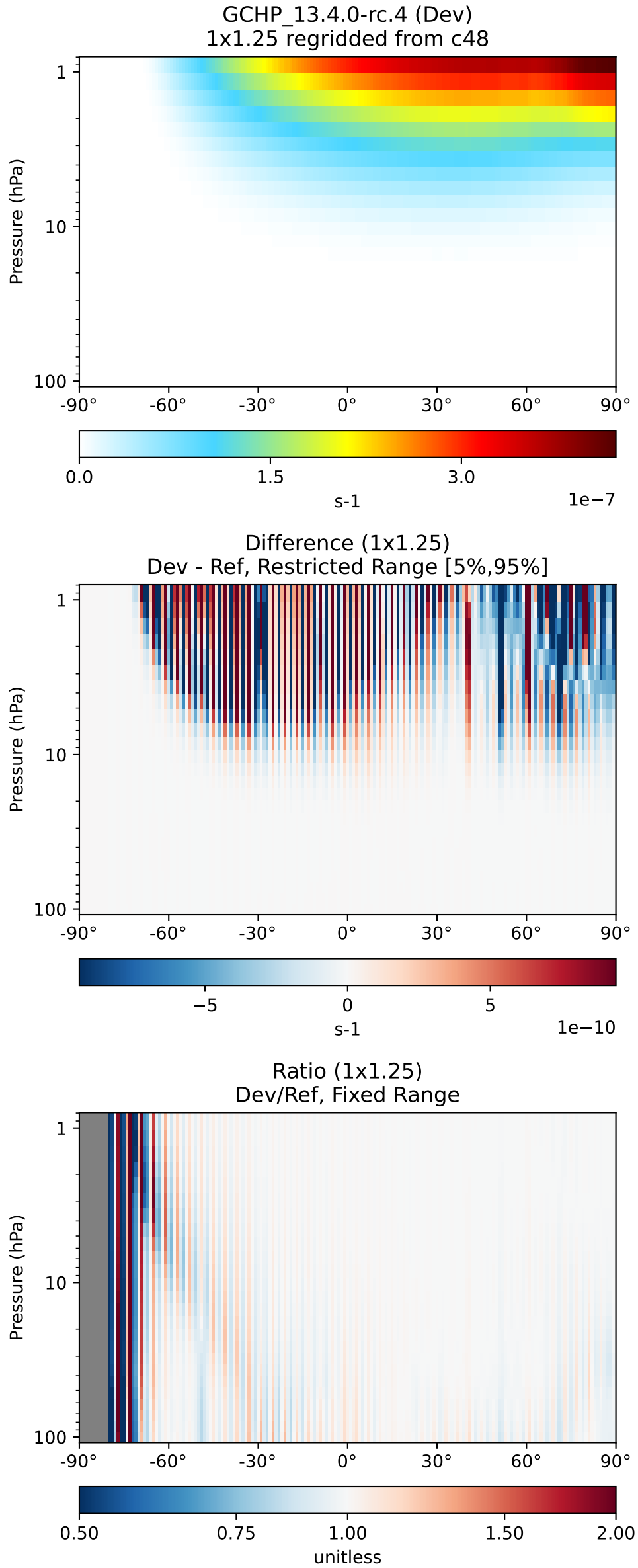


Ratio (1x1.25)
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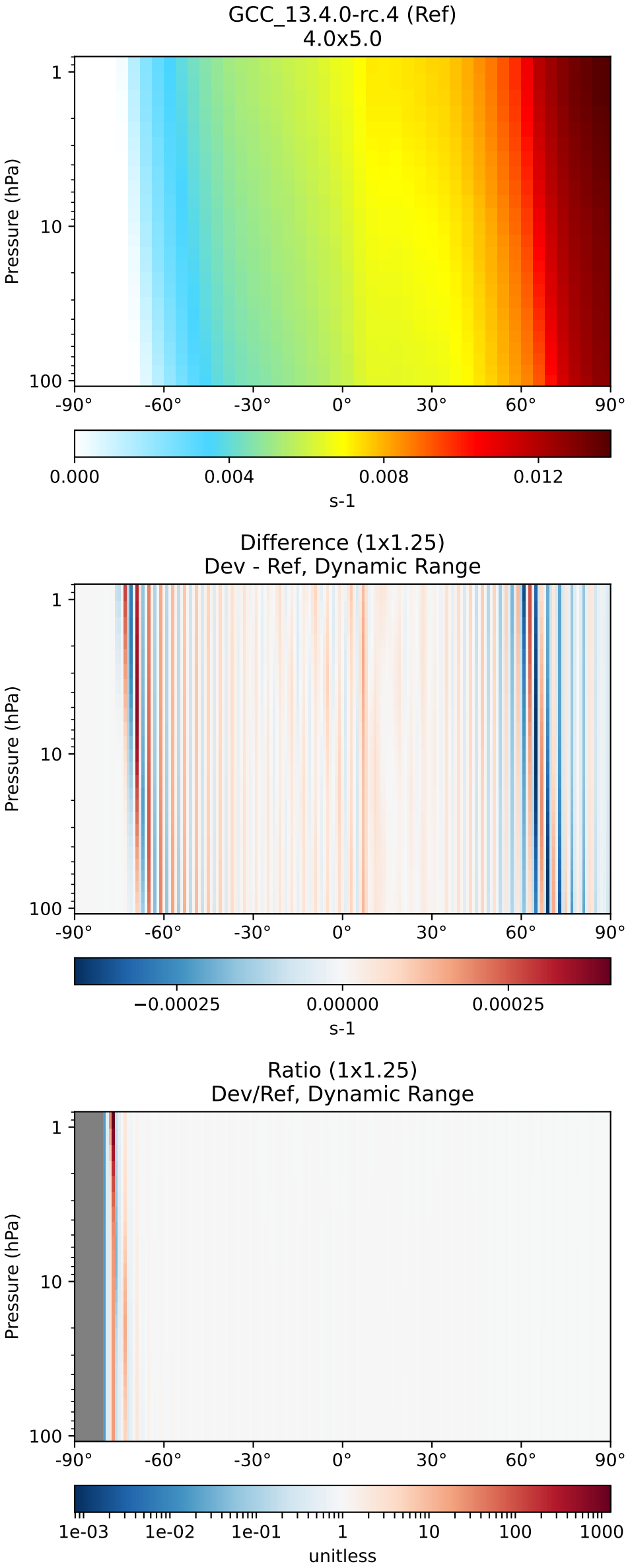


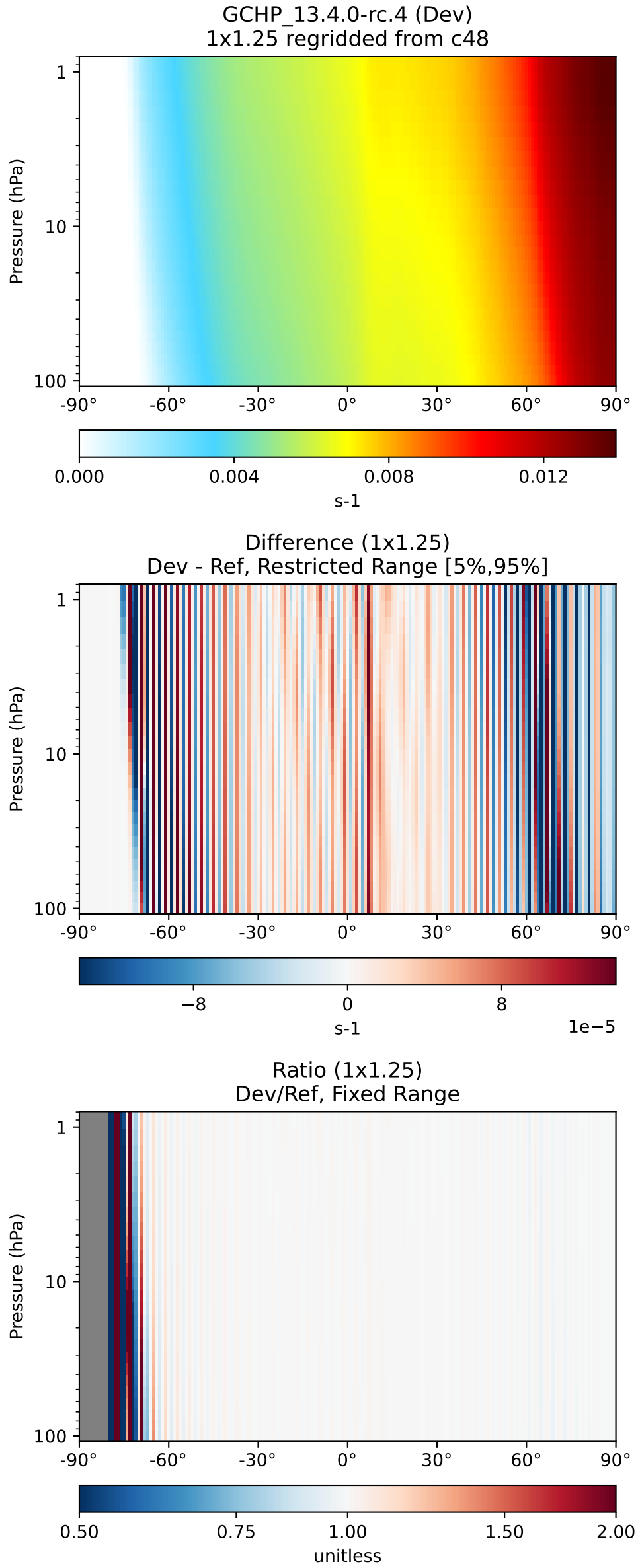
Jval_NO, Zonal Mean



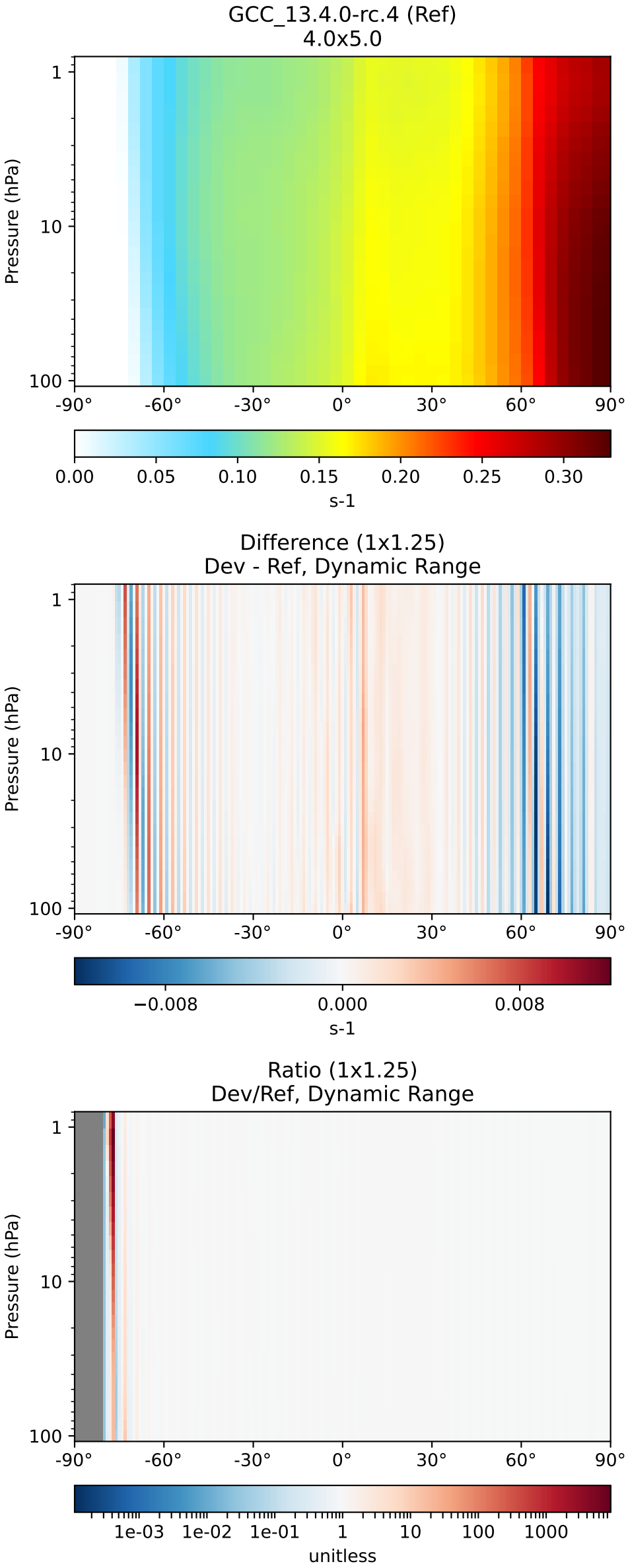


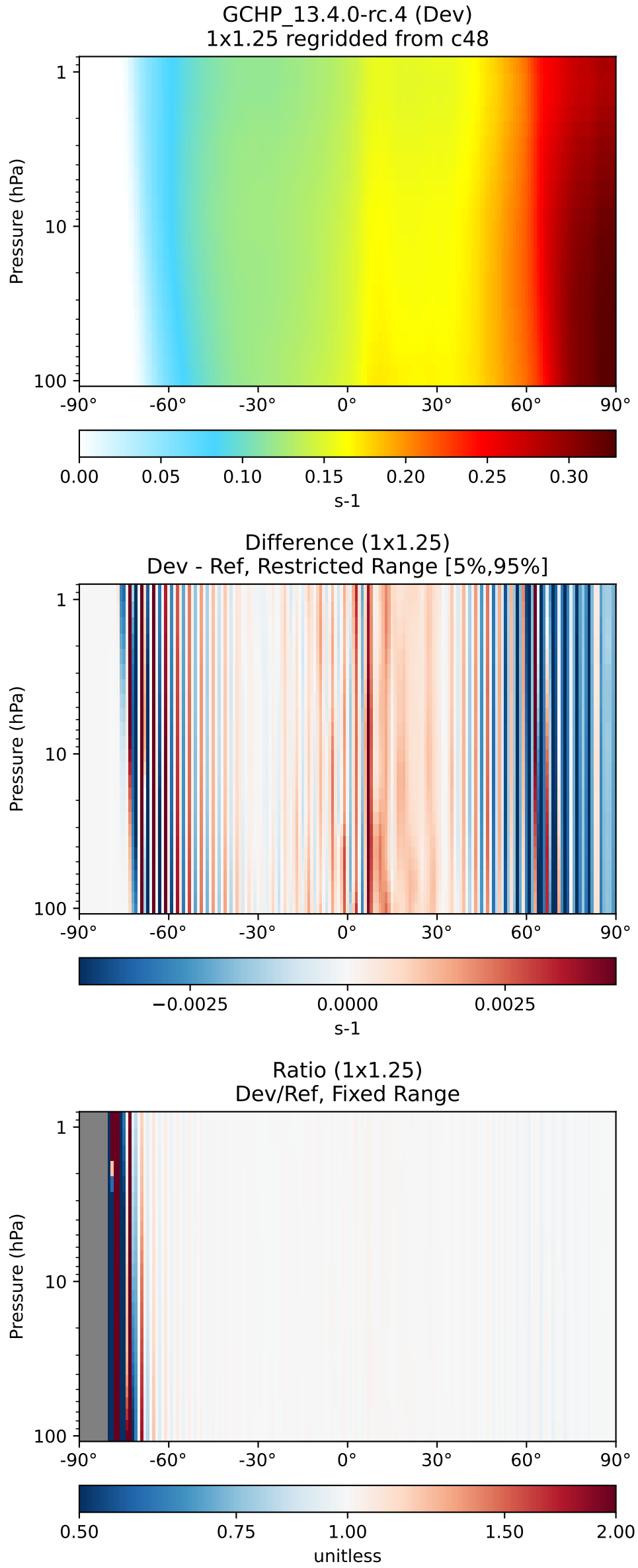
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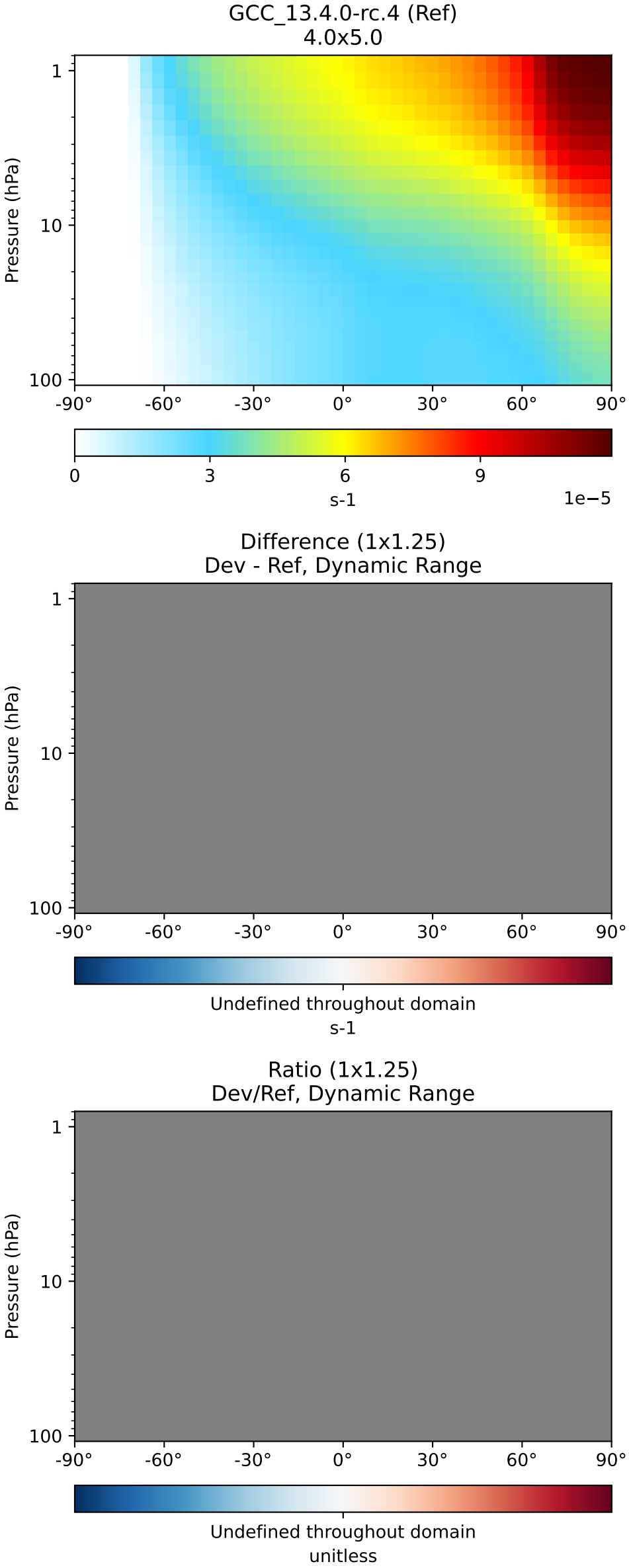


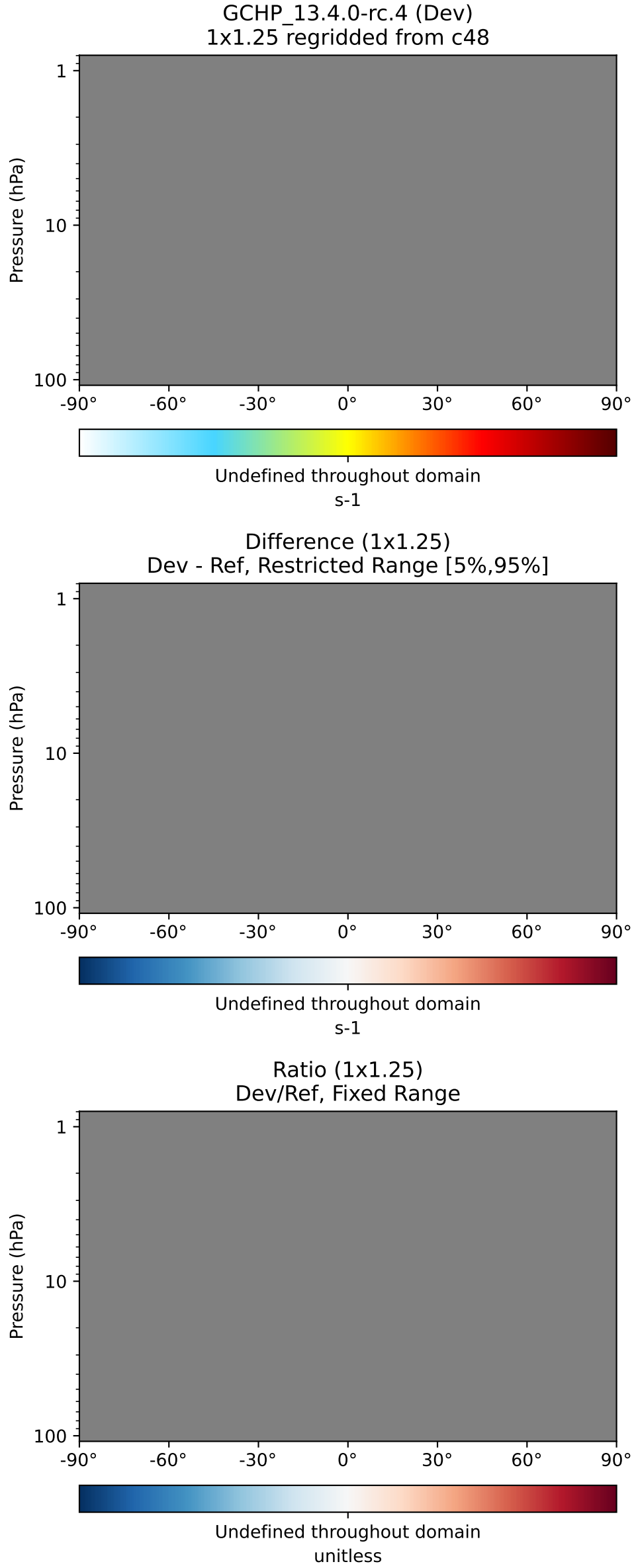
Jval_NO3, Zonal Mean



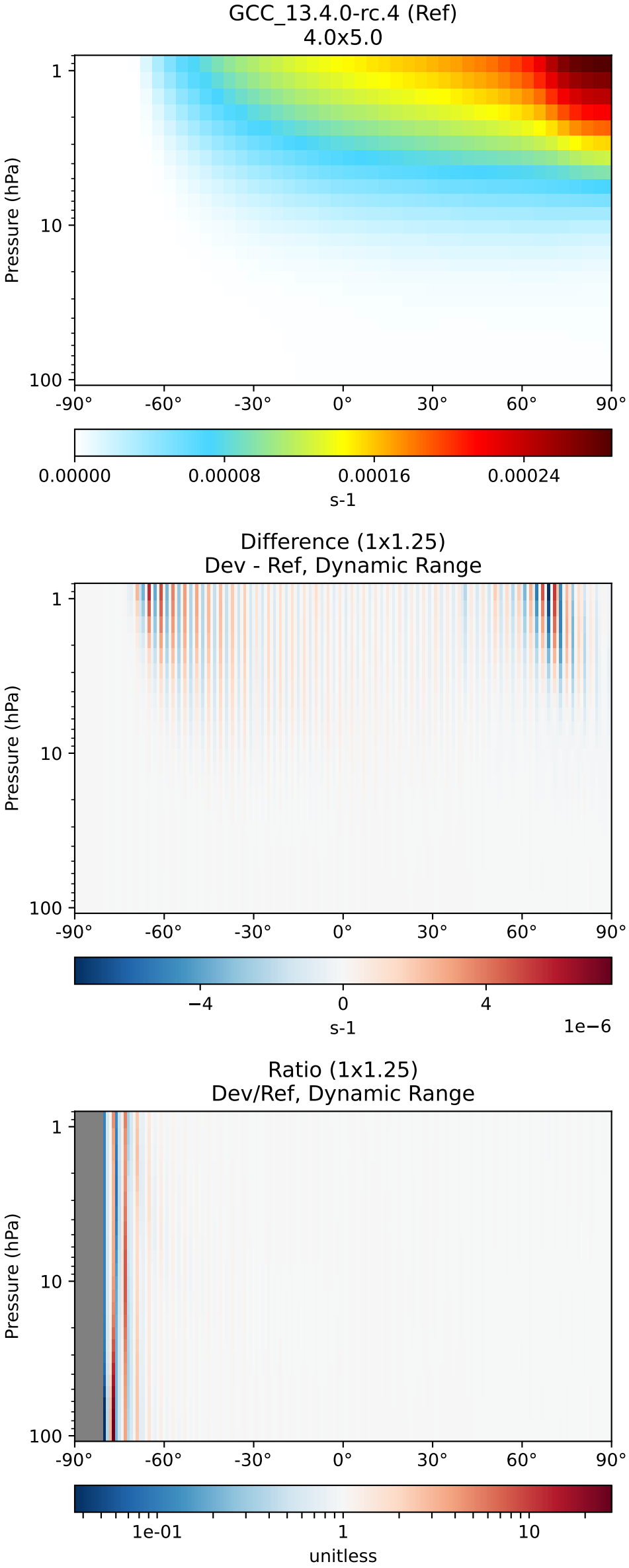


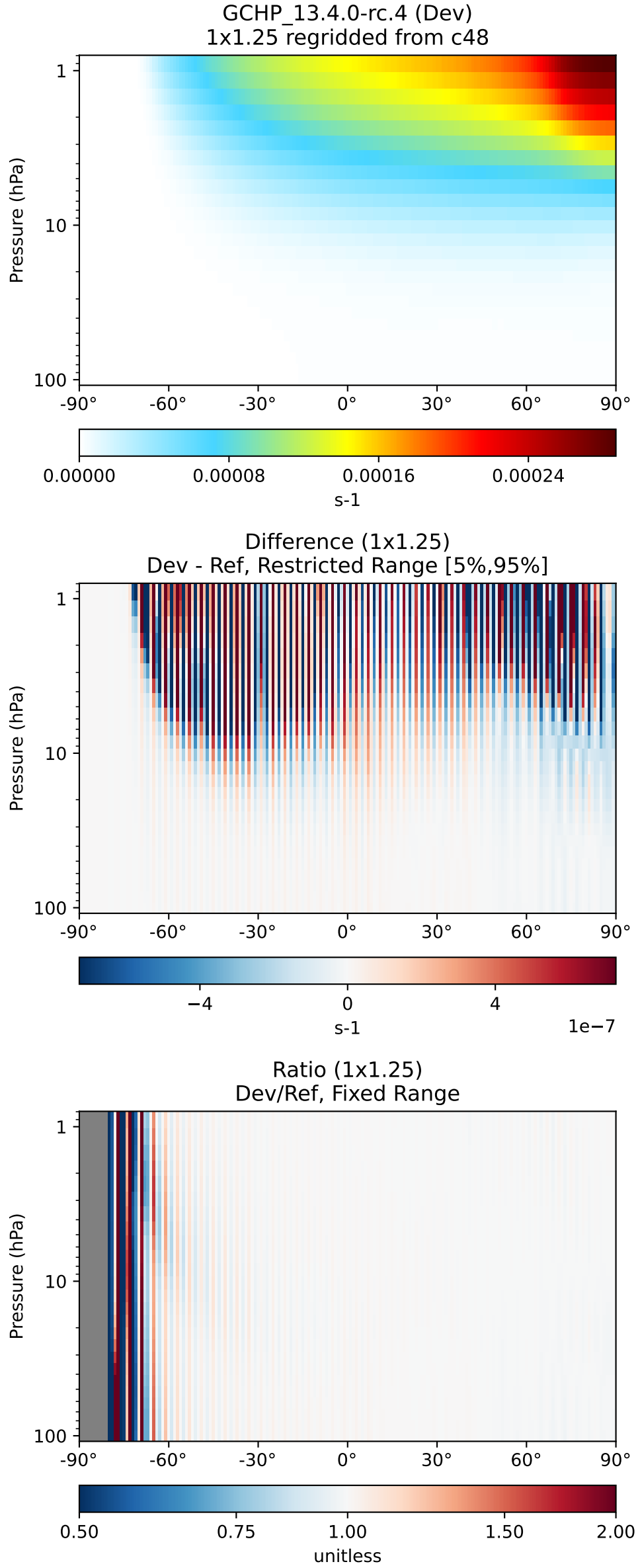
Jval_NPHEN, Zonal Mean



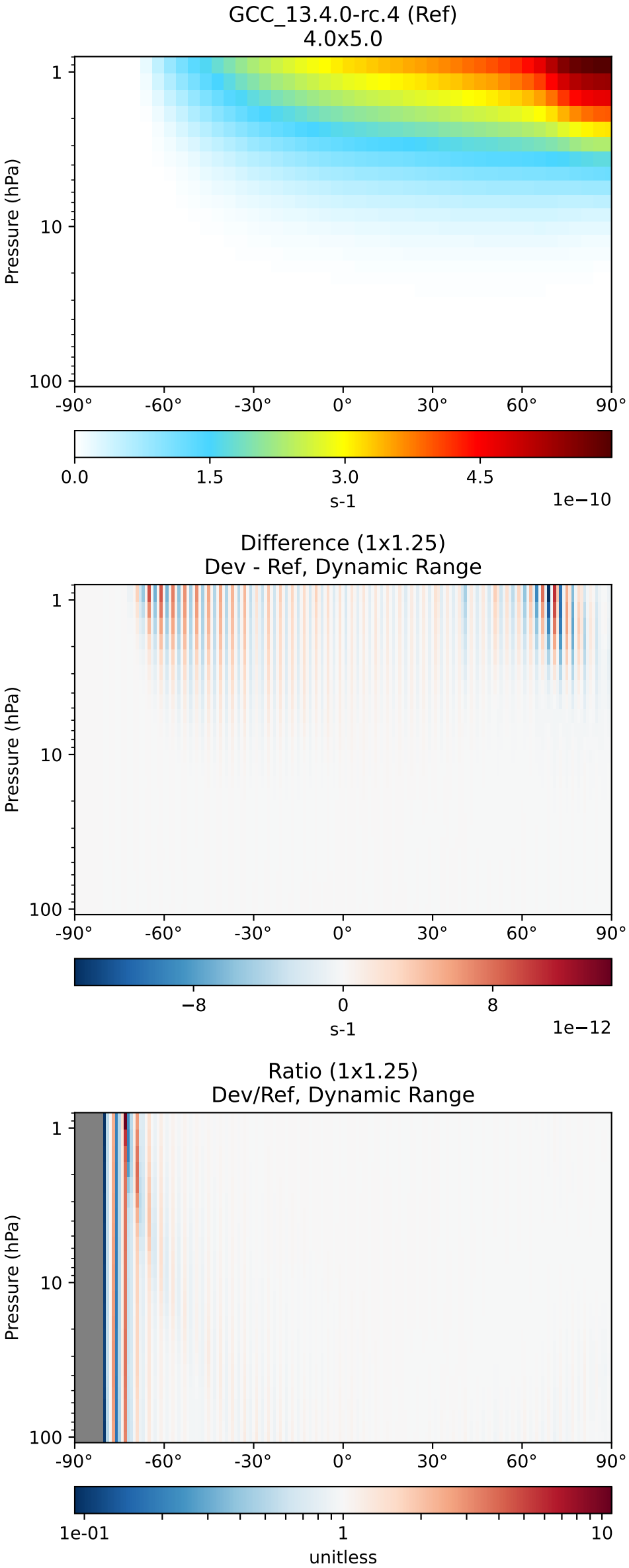


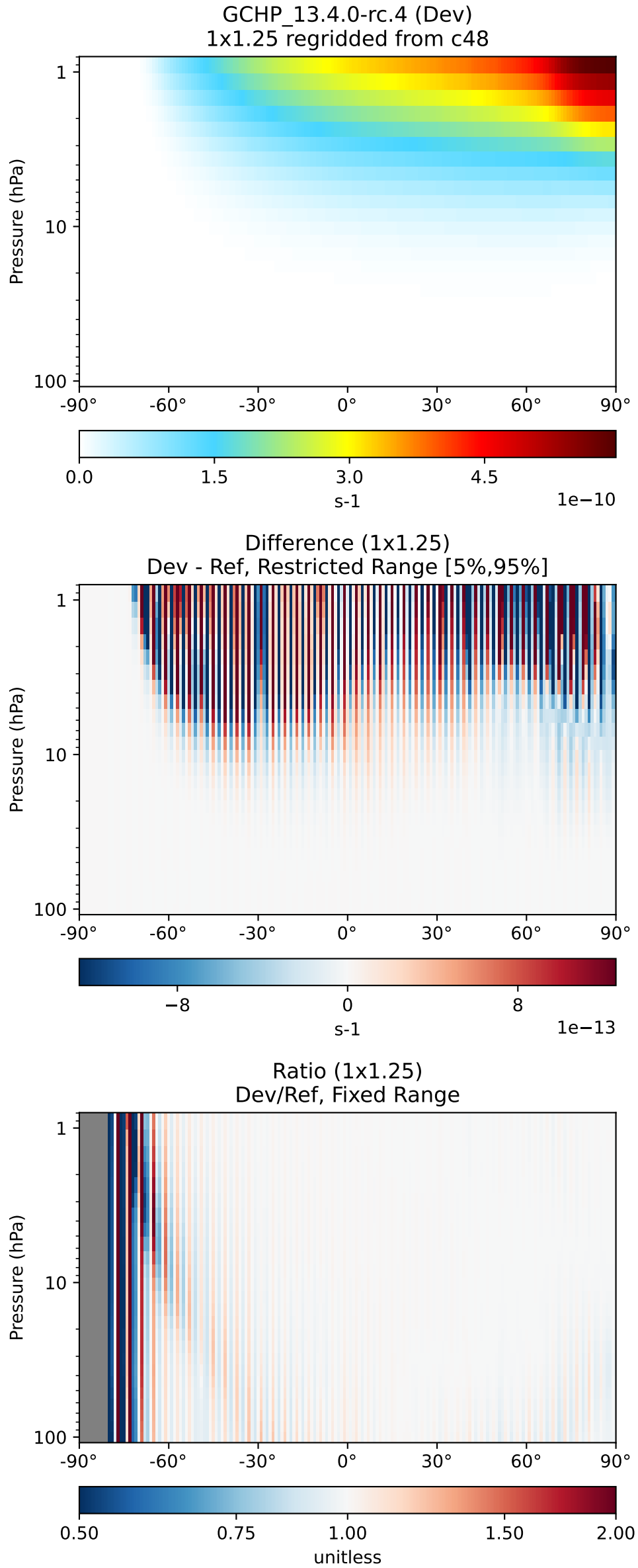
Jval_NPRNO3, Zonal Mean



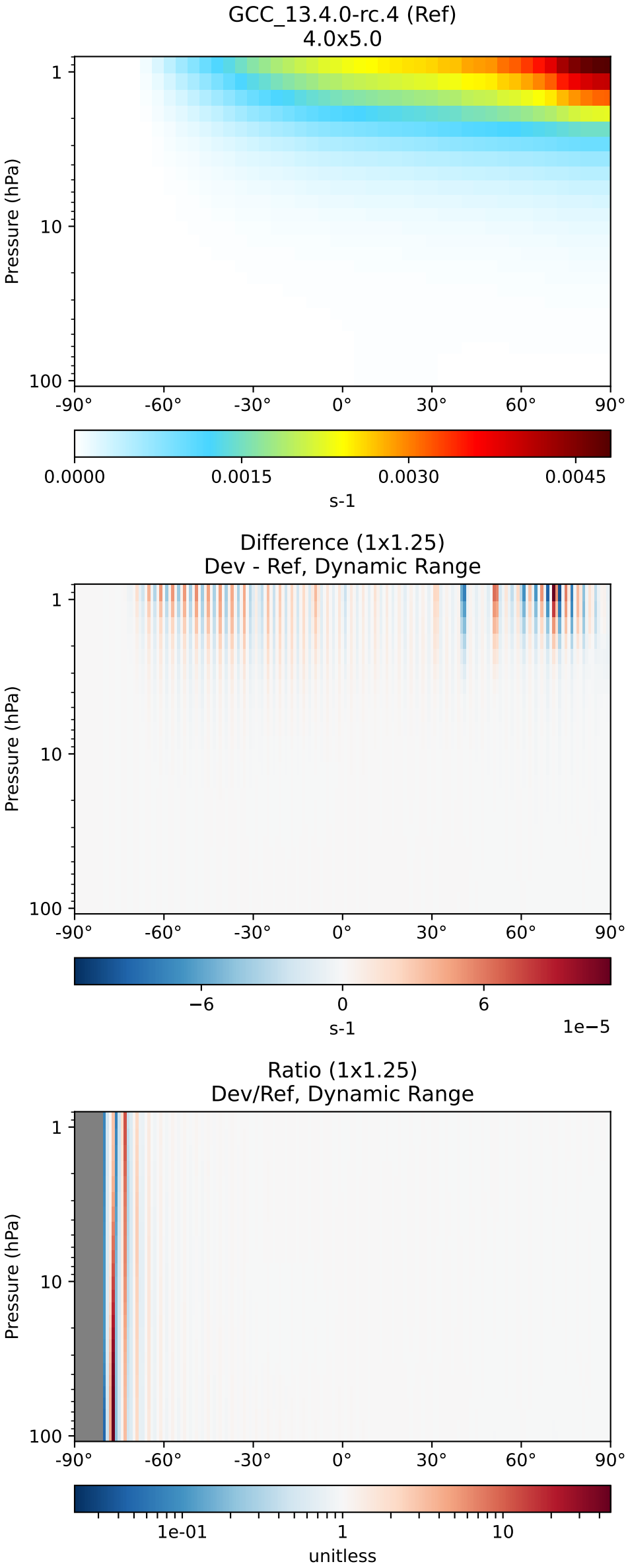


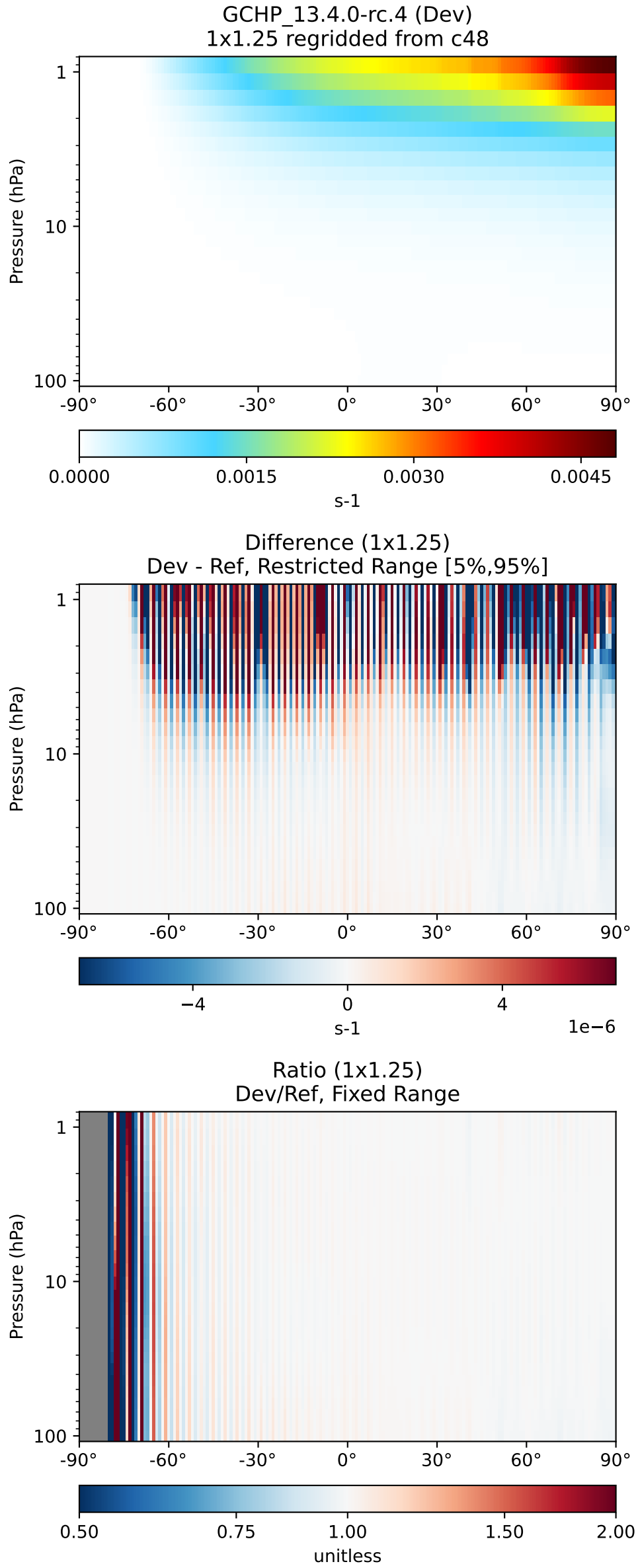
Jval_O2, Zonal Mean



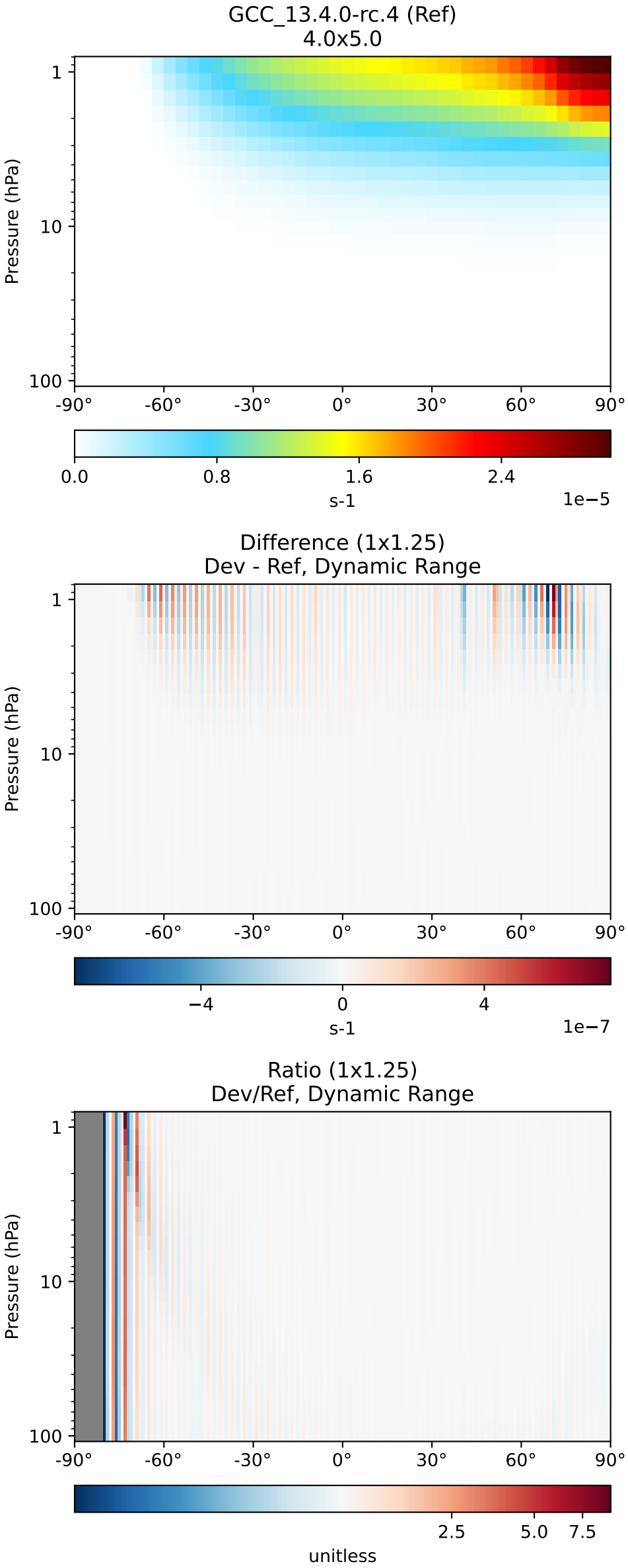


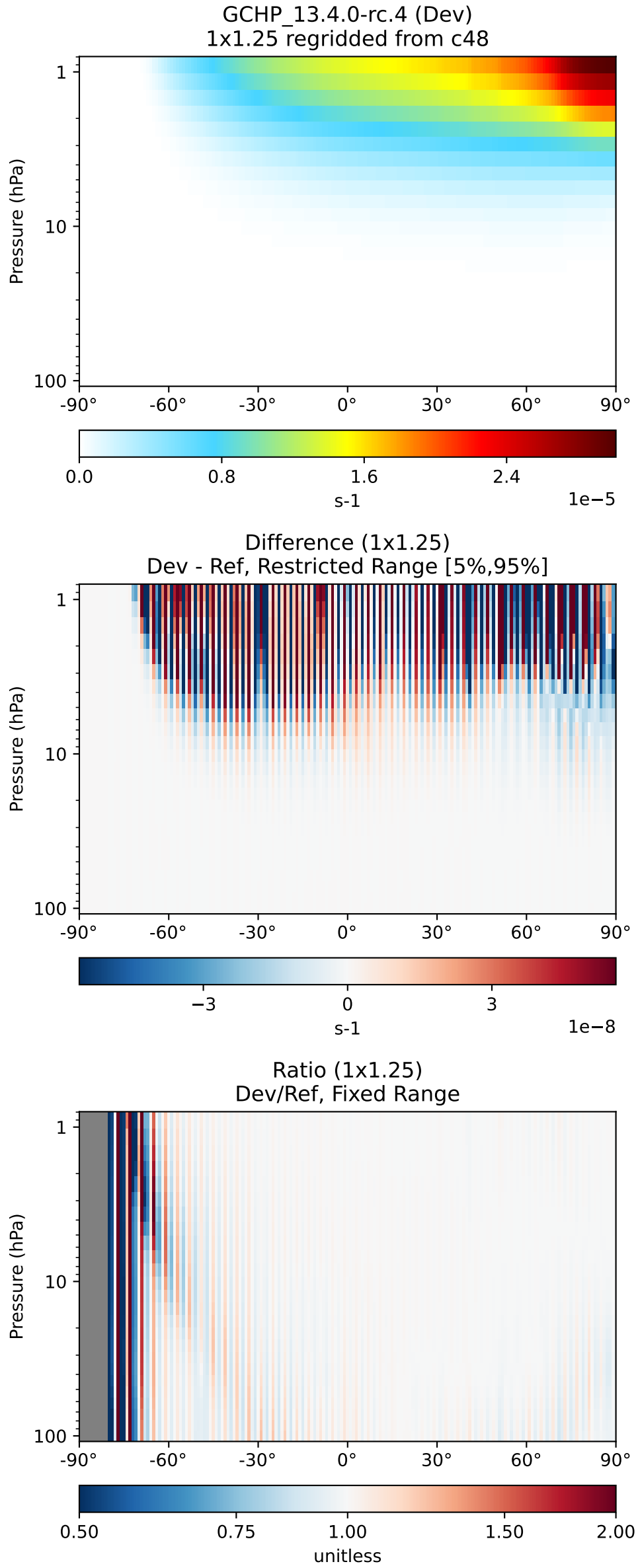
Jval_O3, Zonal Mean



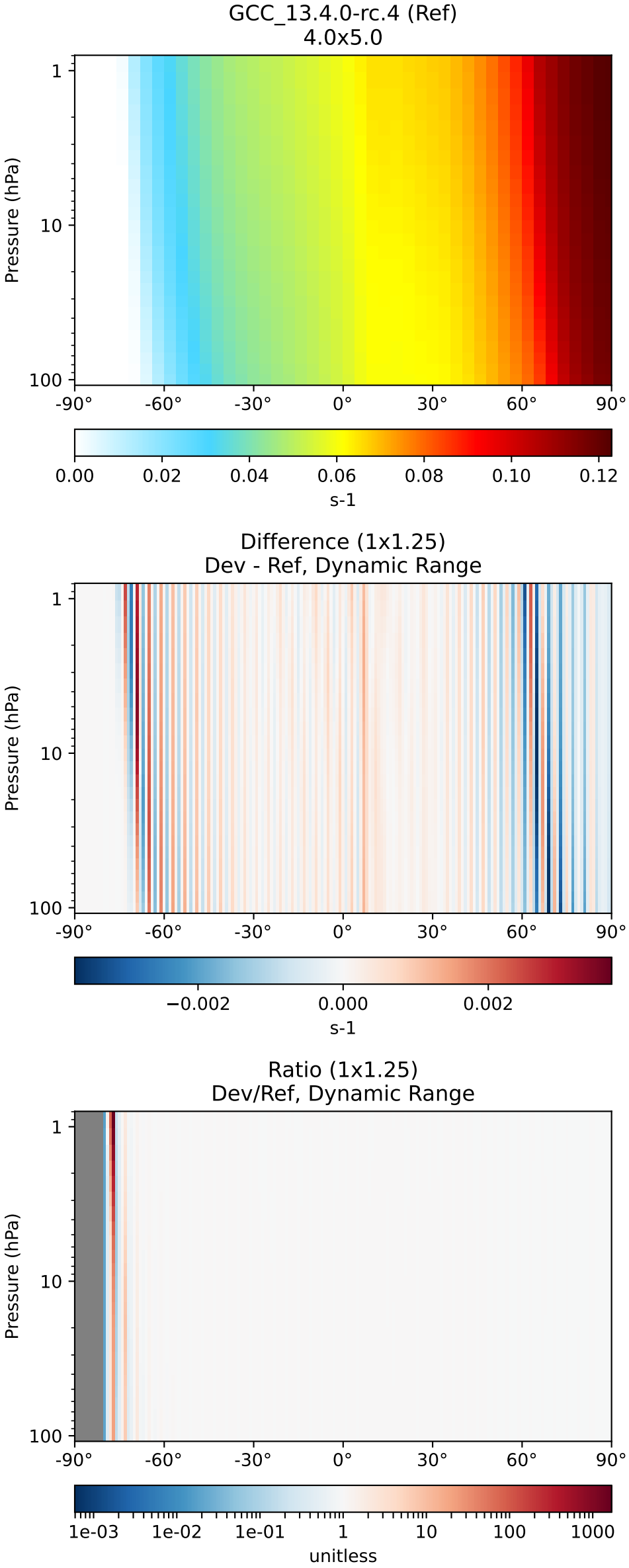


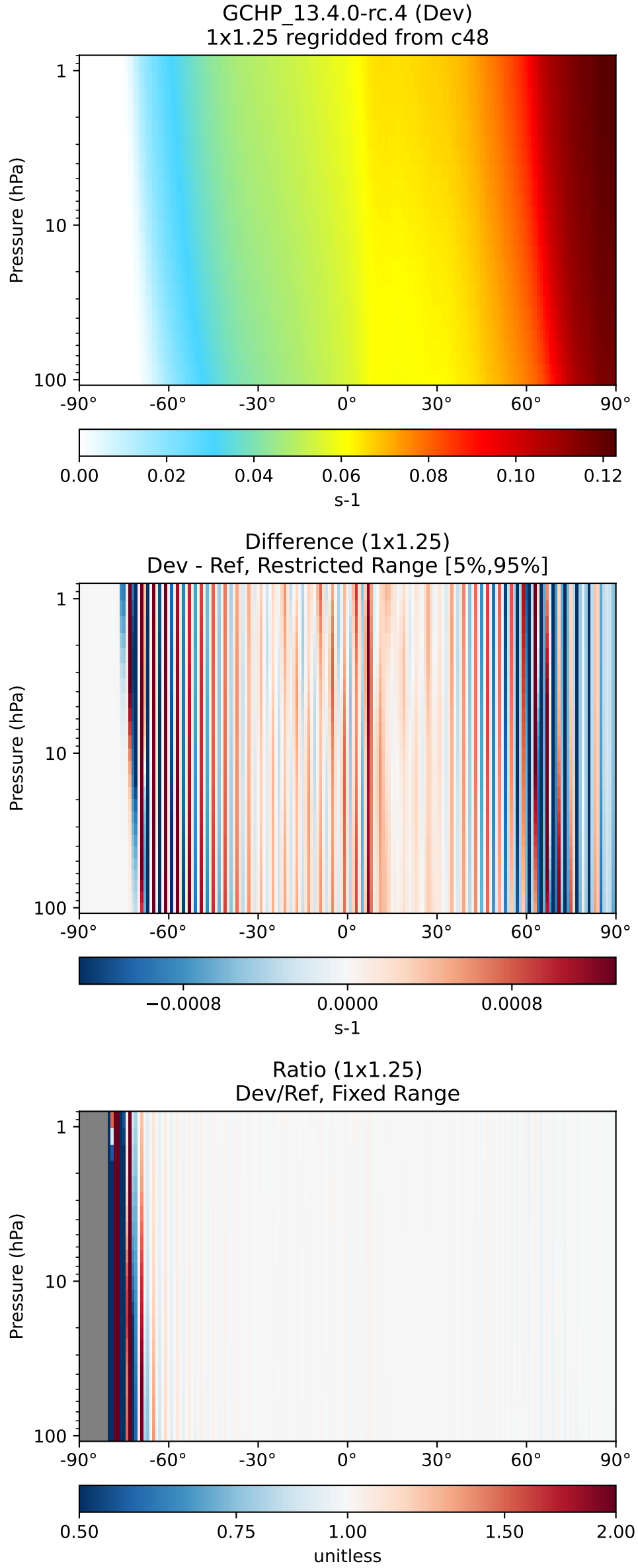
Jval_OCS, Zonal Mean



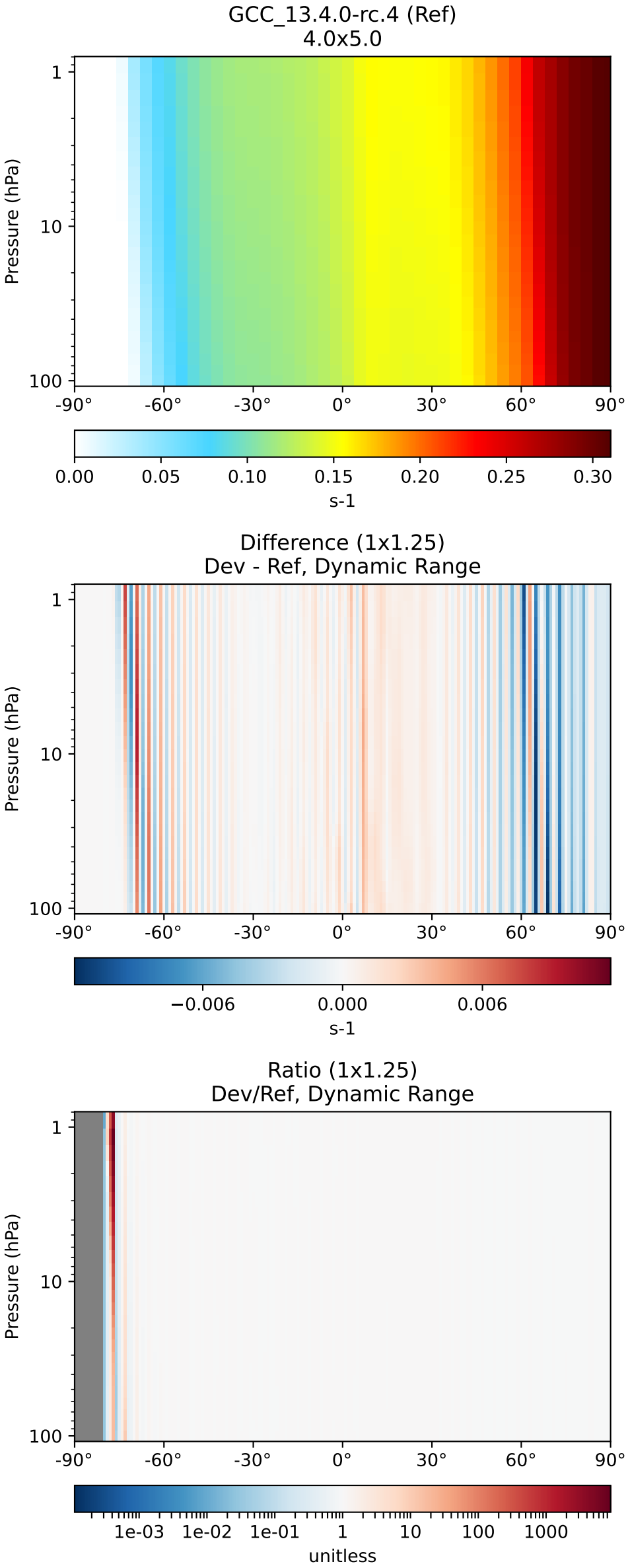


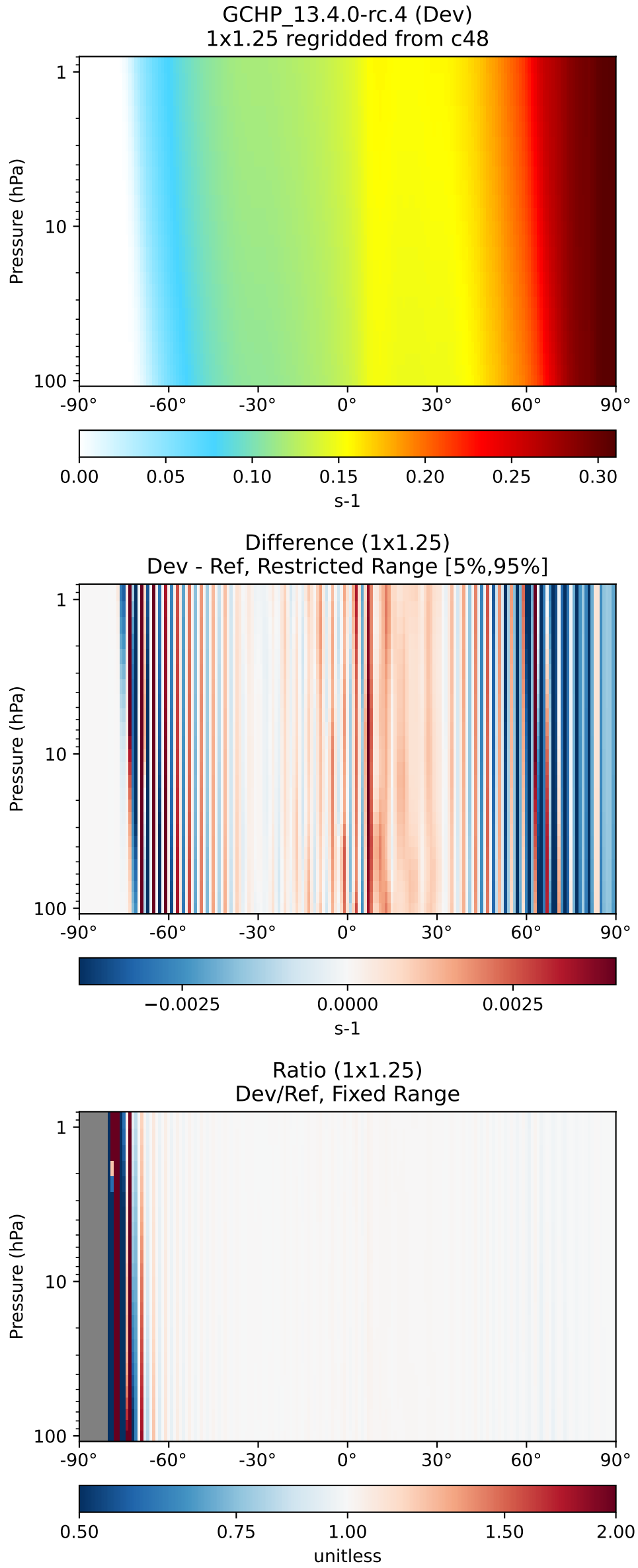
Jval_OClO, Zonal Mean



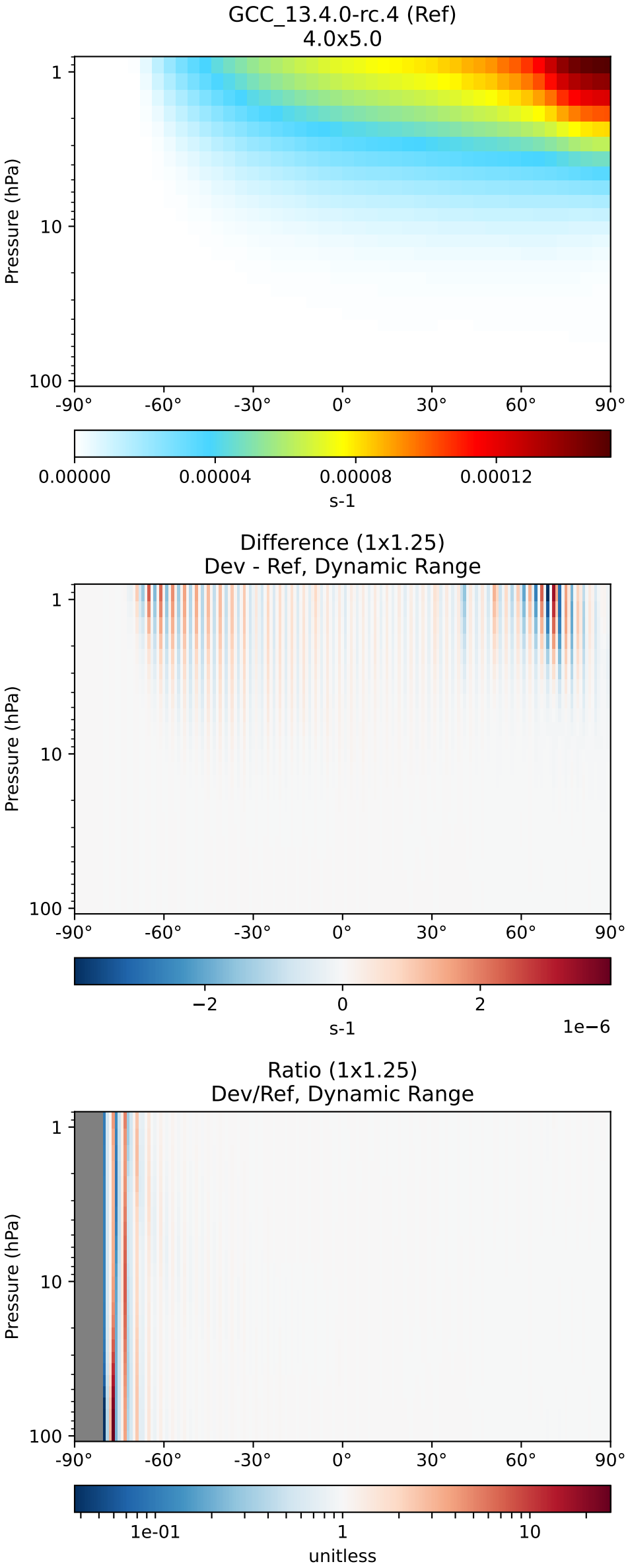


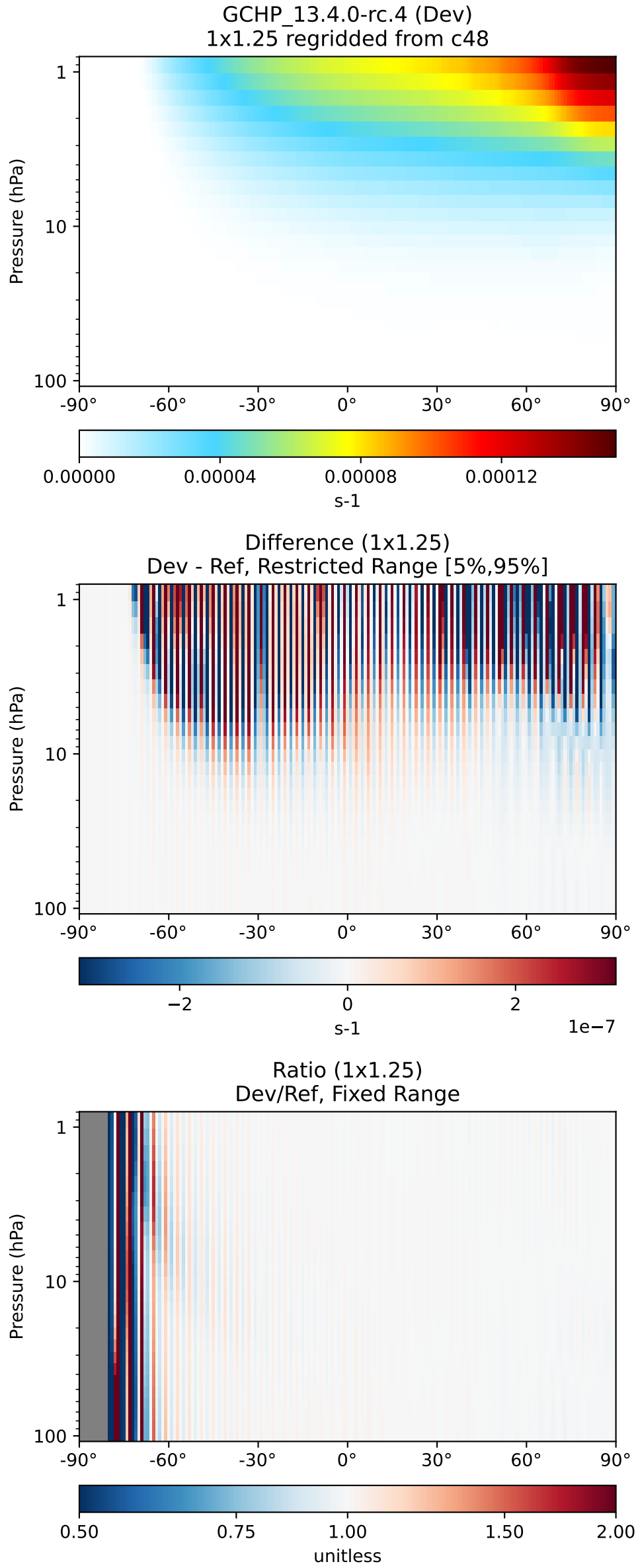
Jval_OIO, Zonal Mean



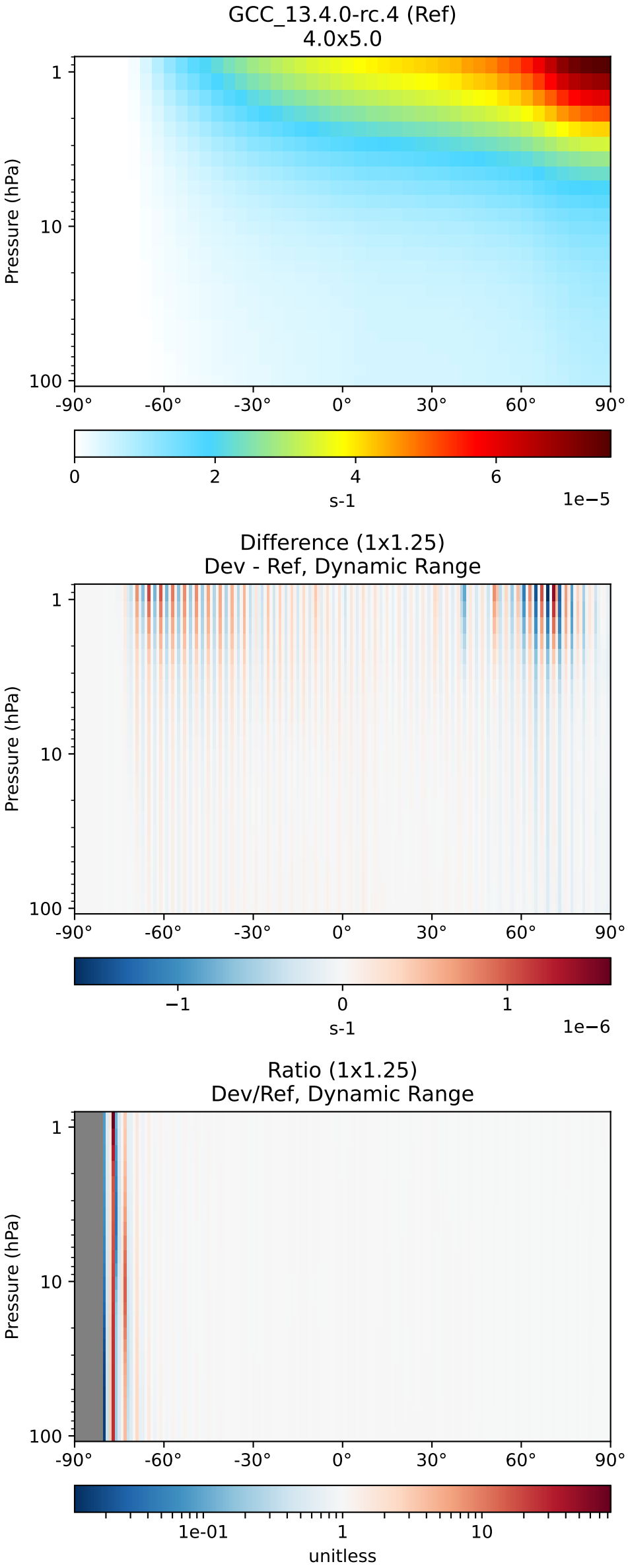


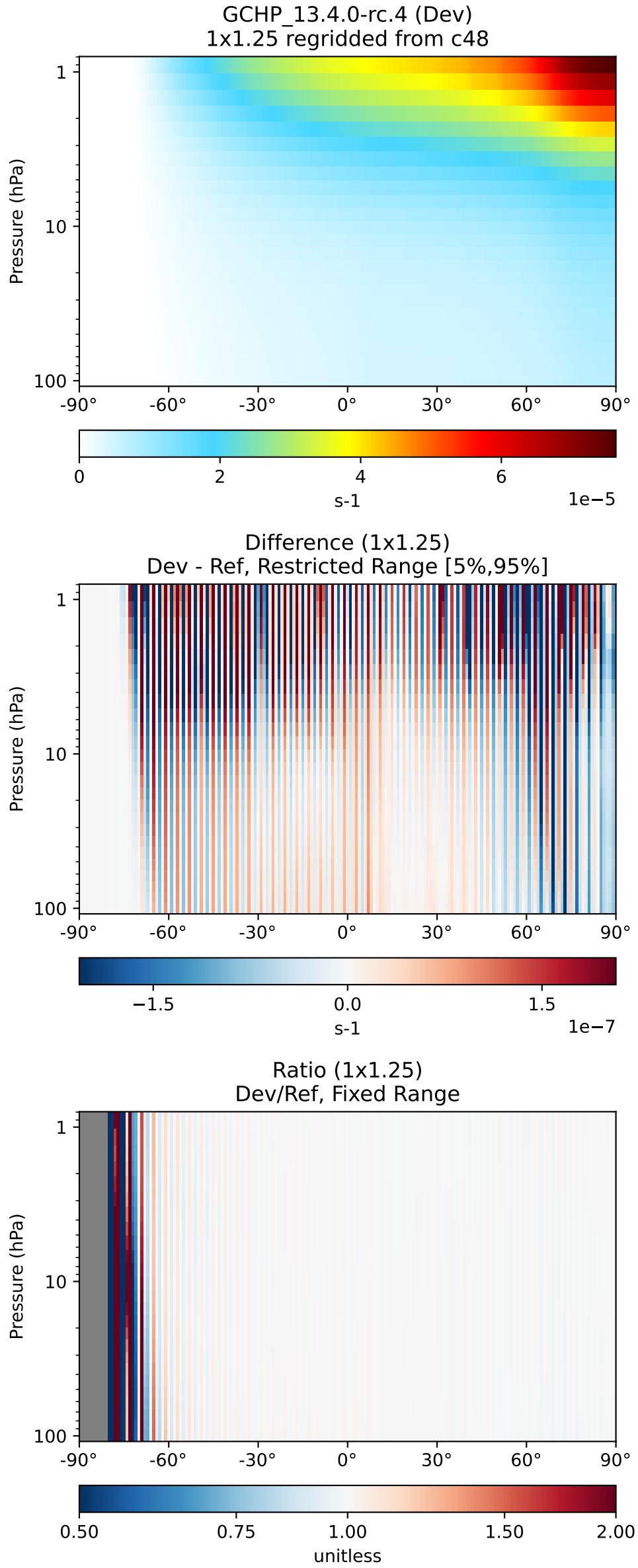
Jval_PAN, Zonal Mean



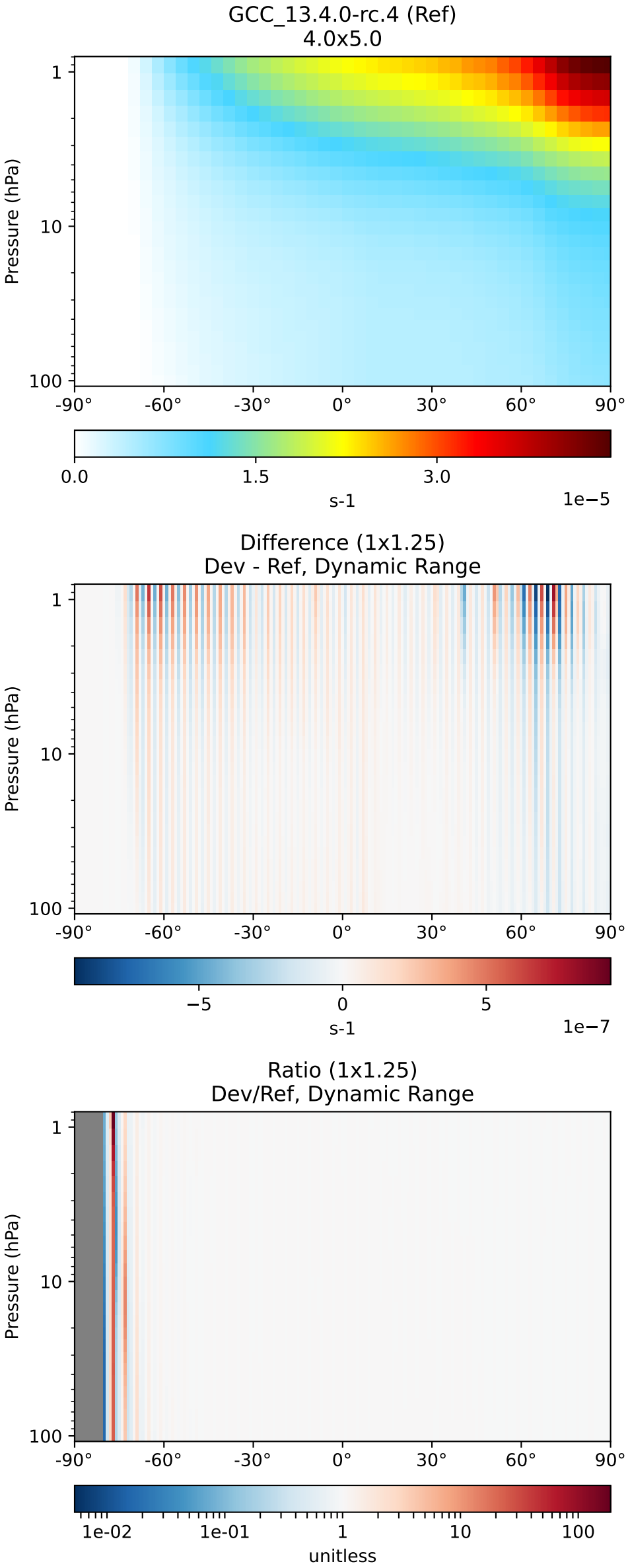


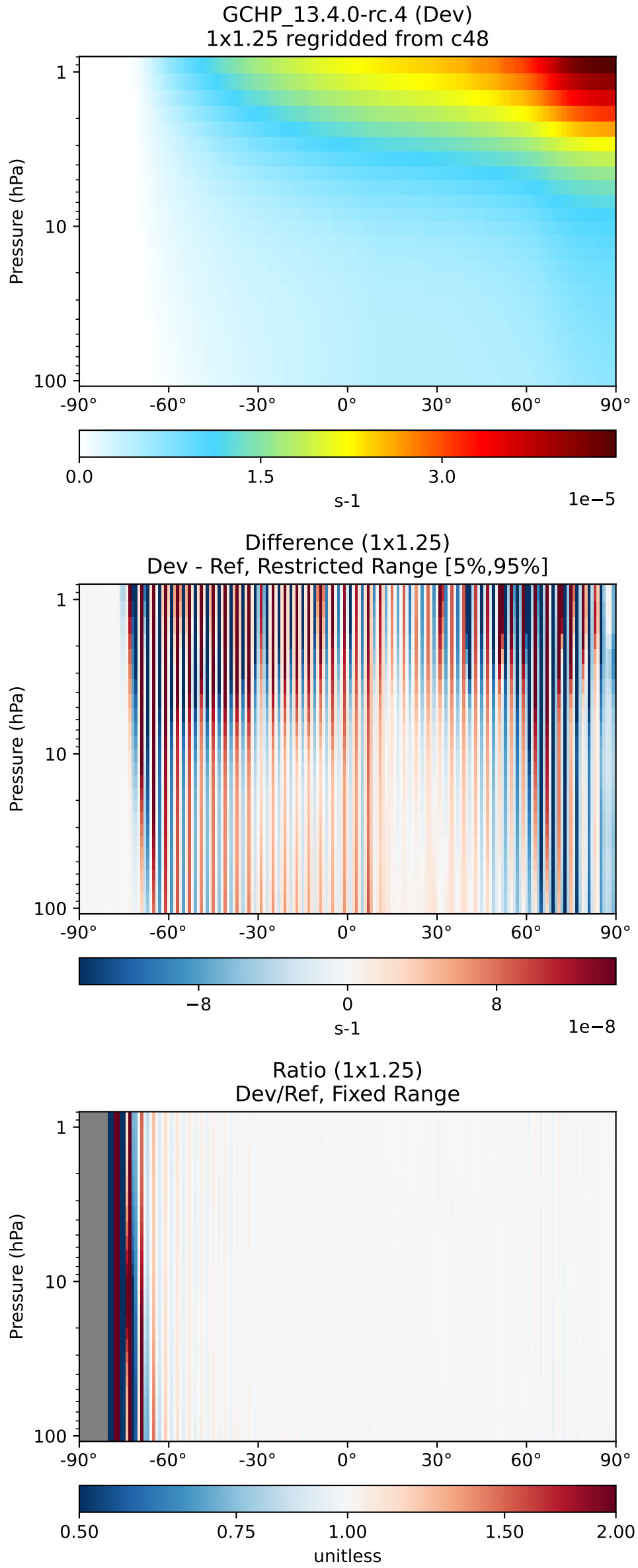
Jval_PIP, Zonal Mean



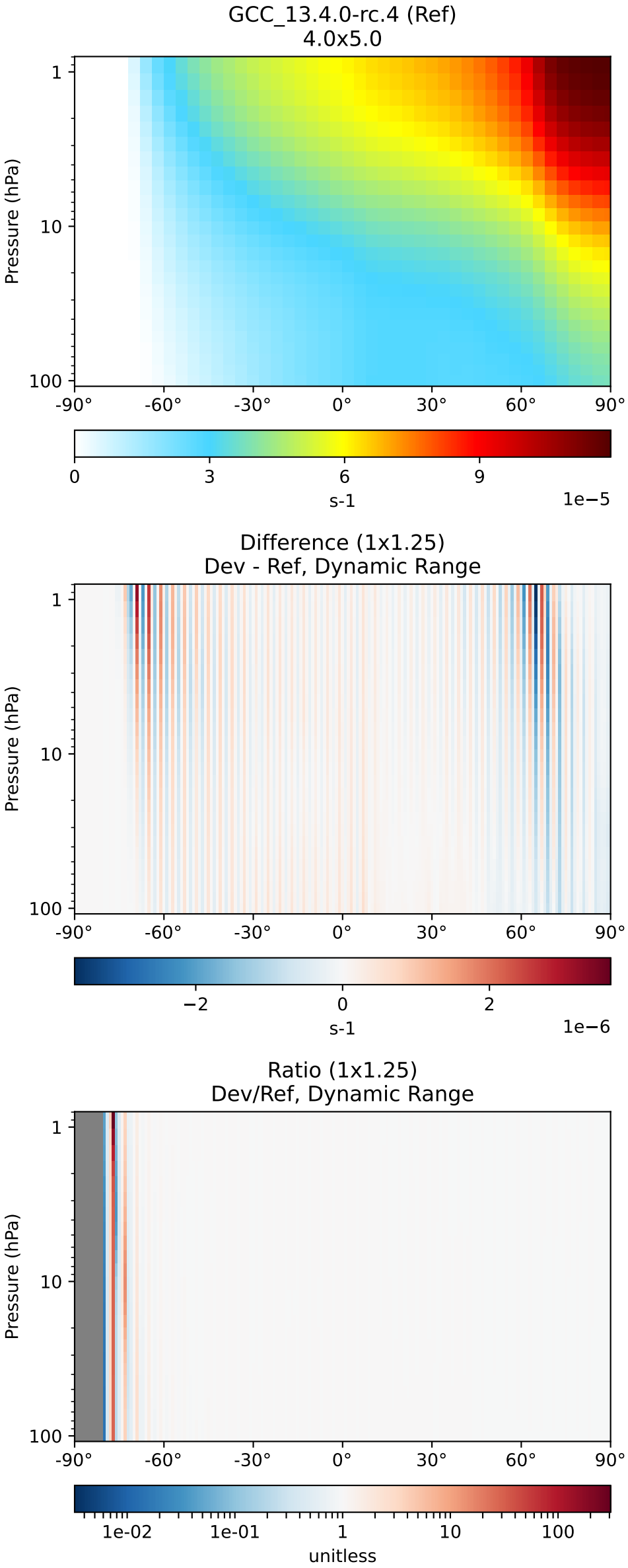


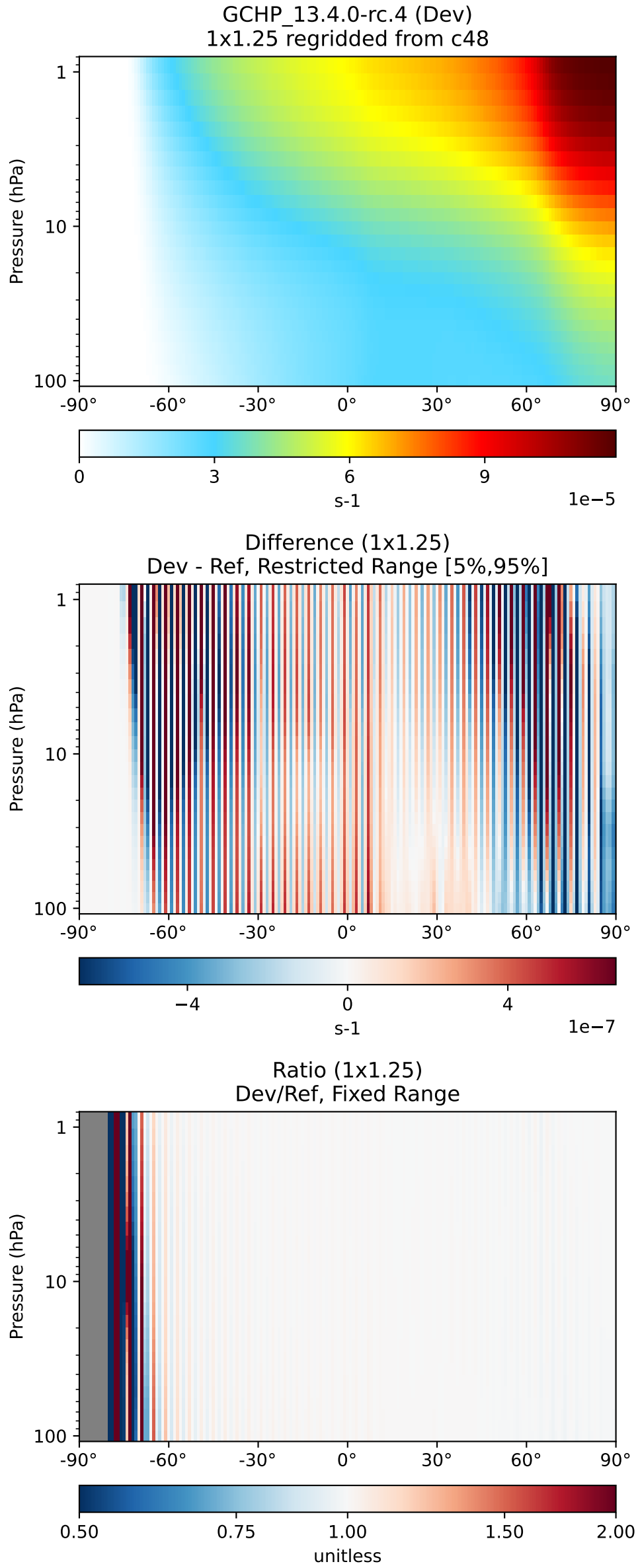
Jval_PP, Zonal Mean



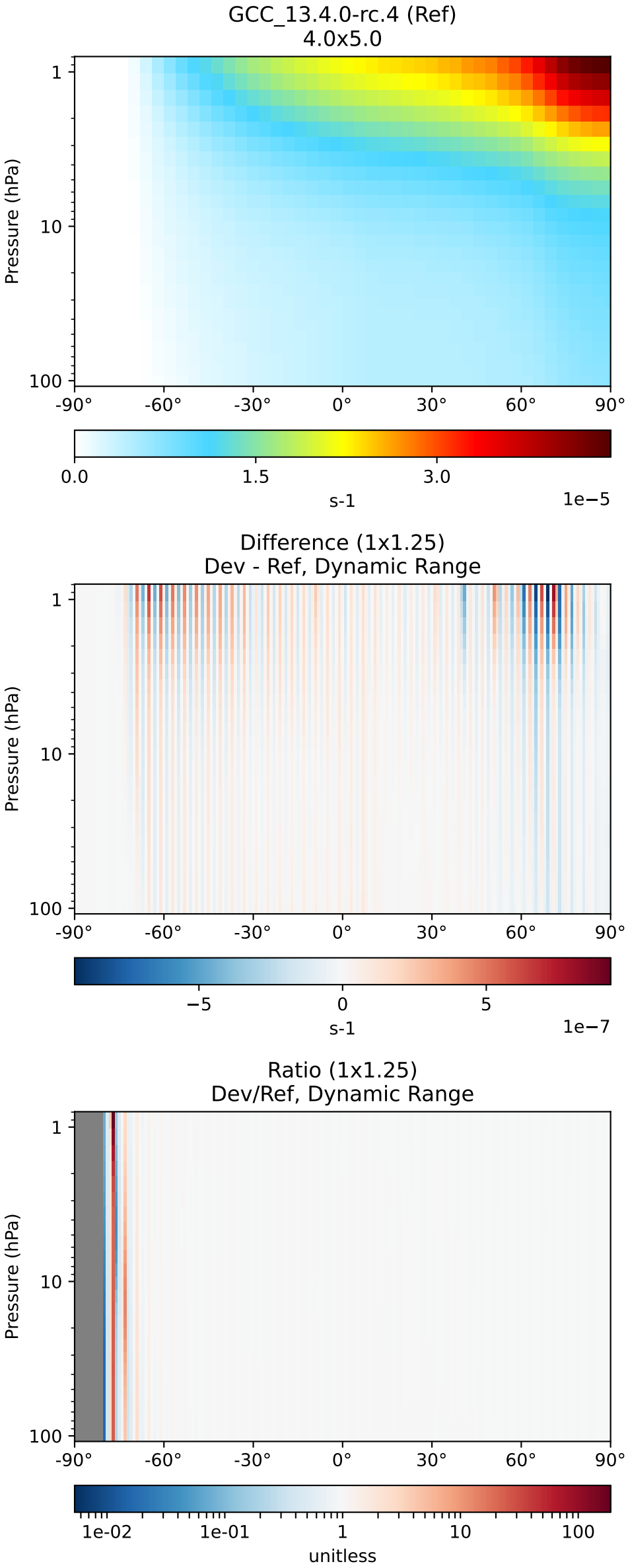


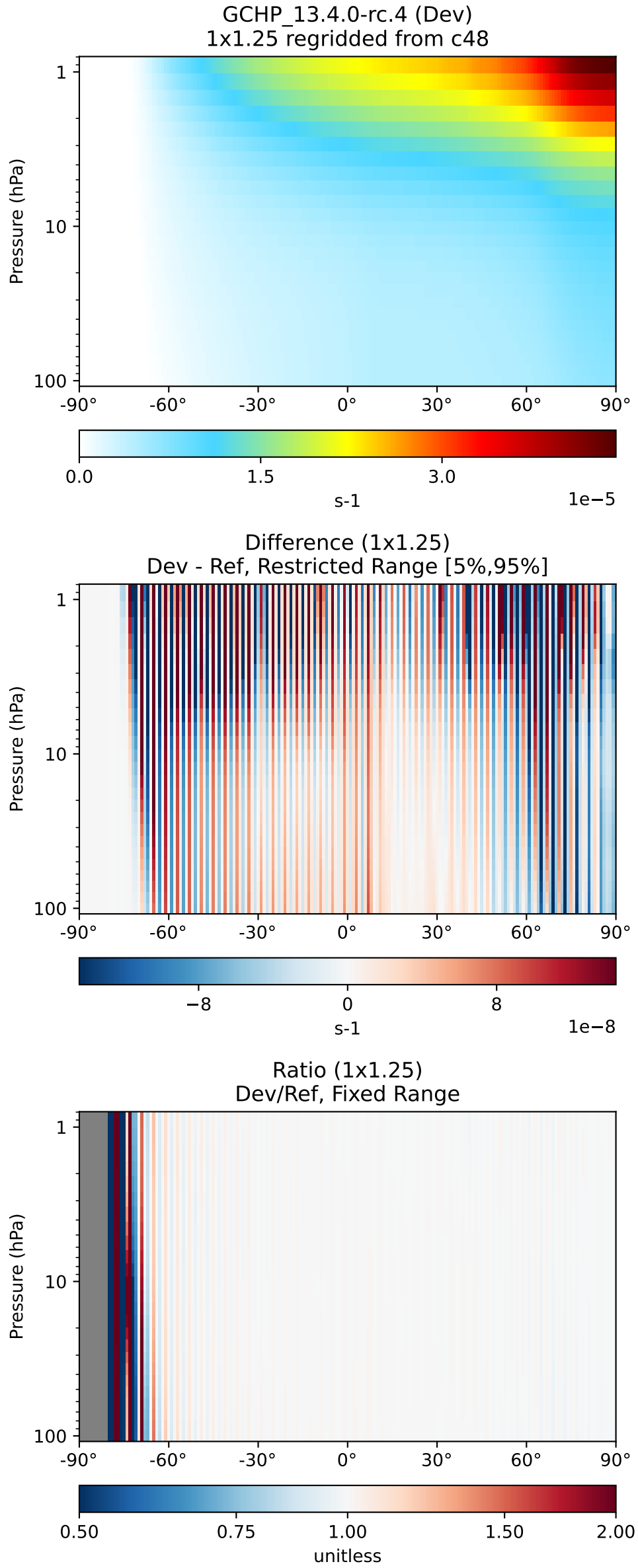
Jval_PROPNN, Zonal Mean



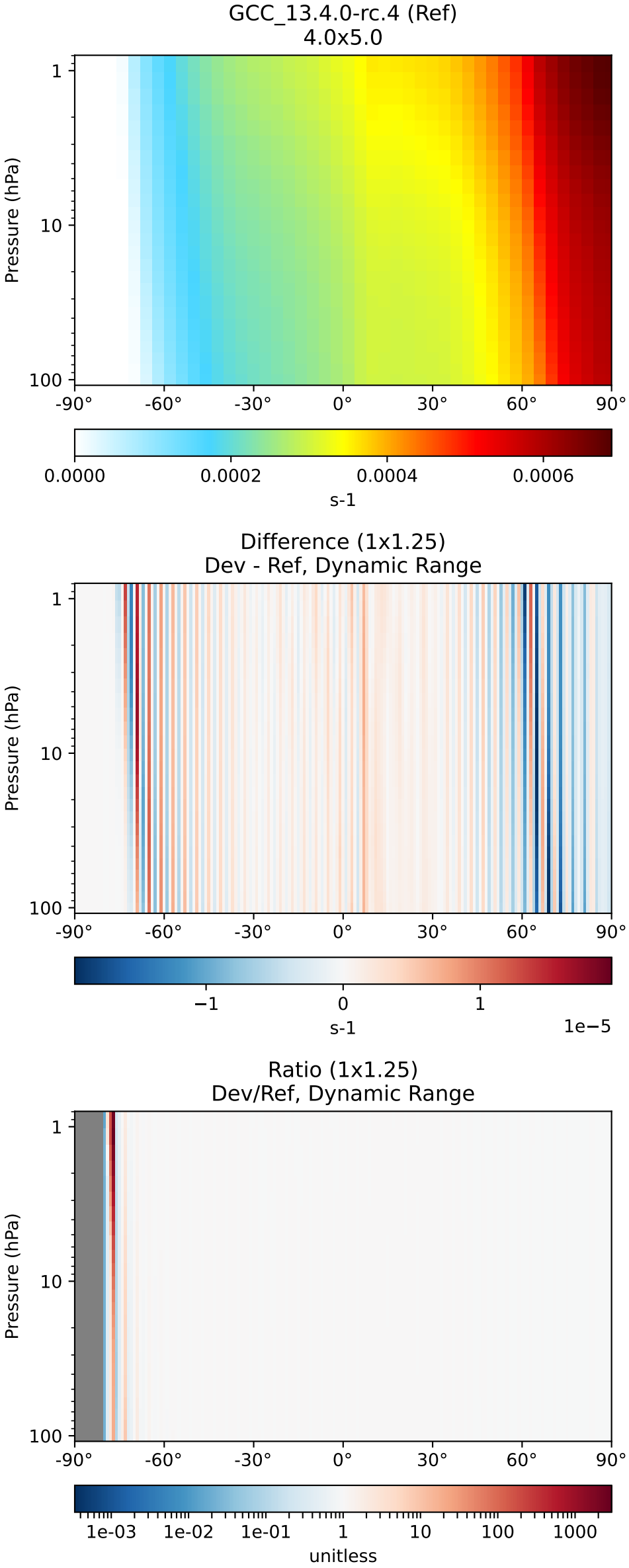


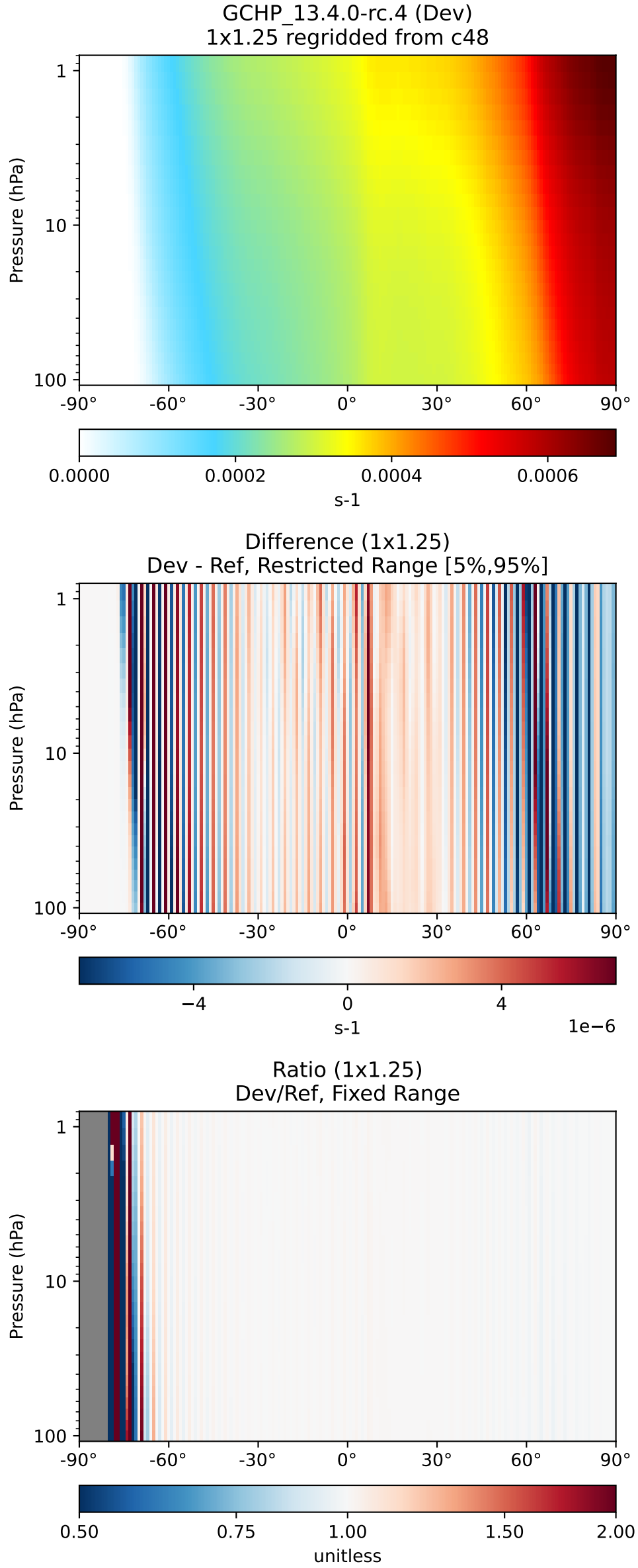
Jval_PRPN, Zonal Mean



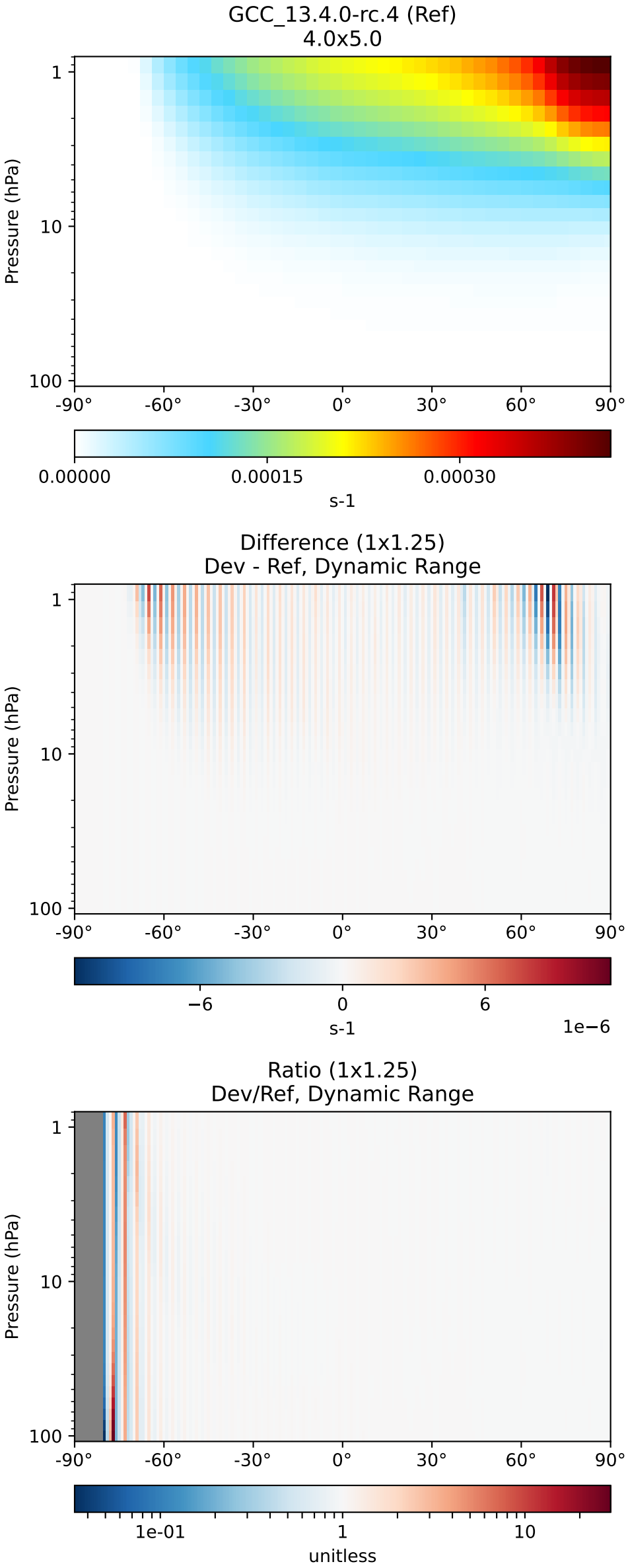


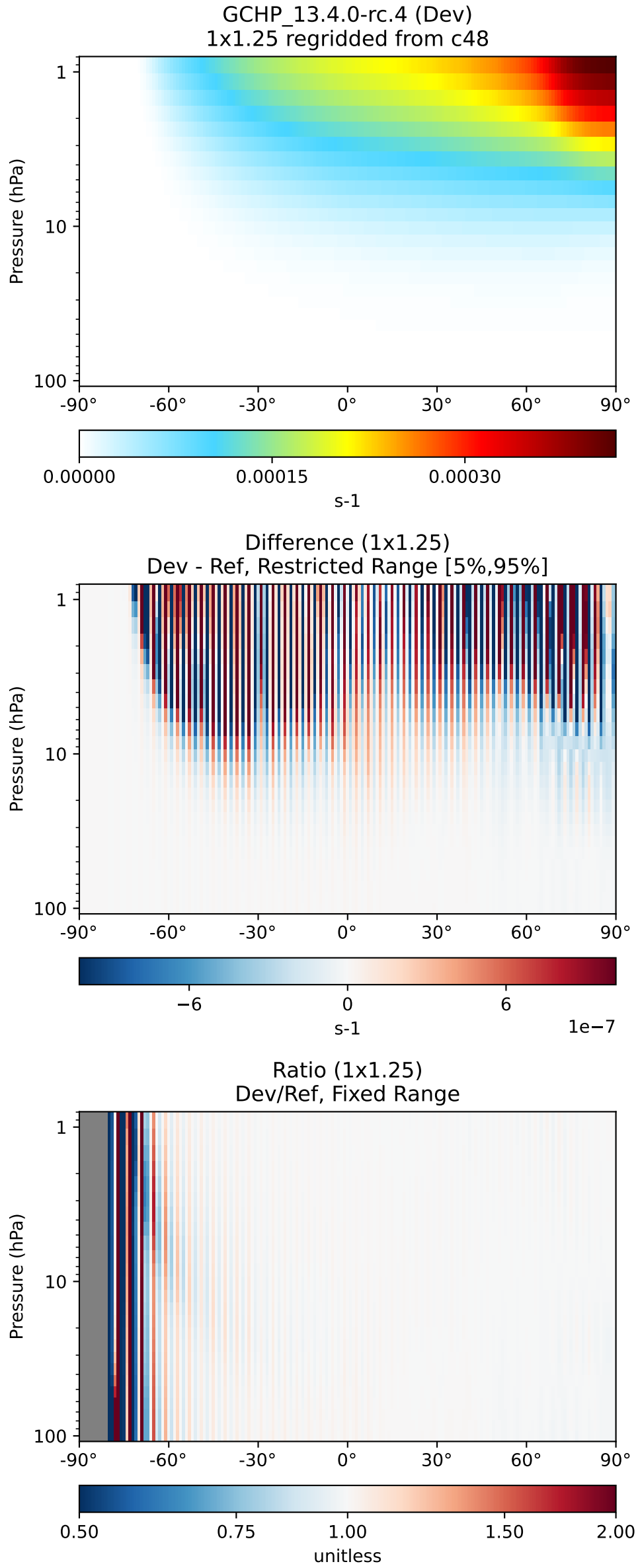
Jval_PYAC, Zonal Mean



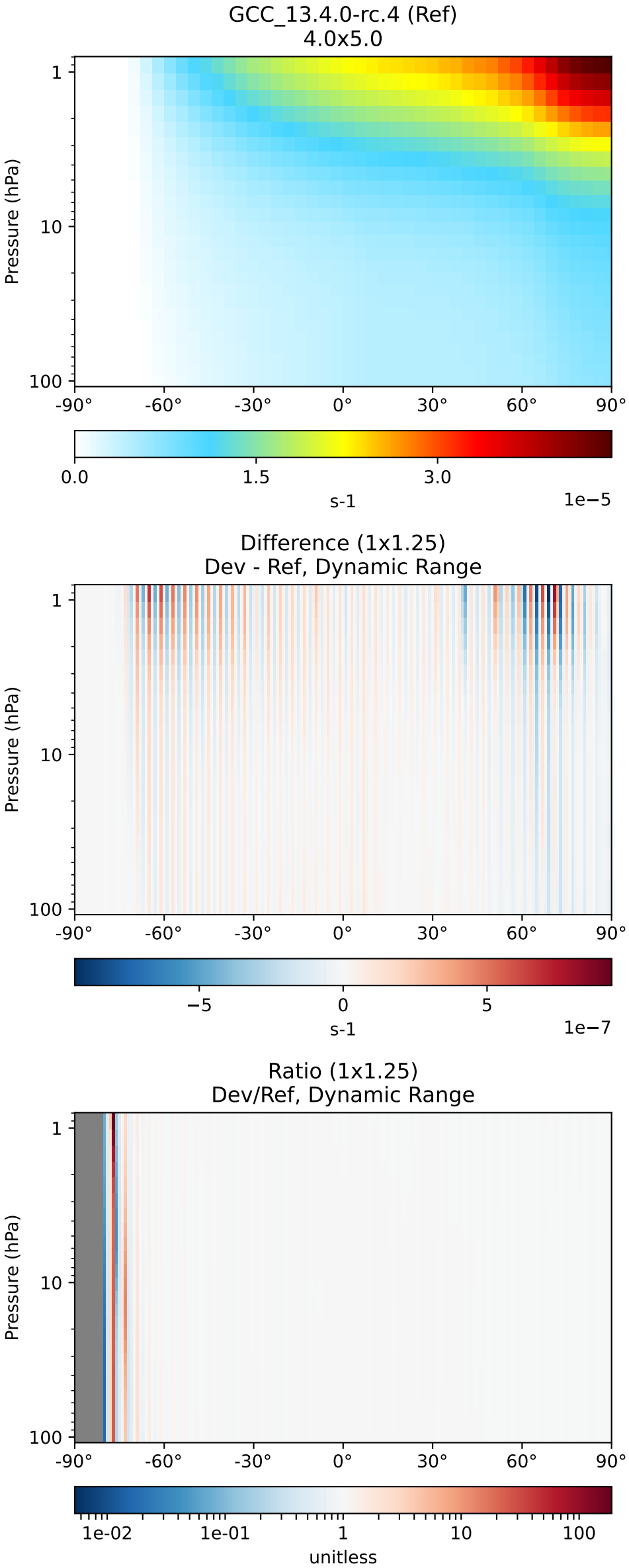


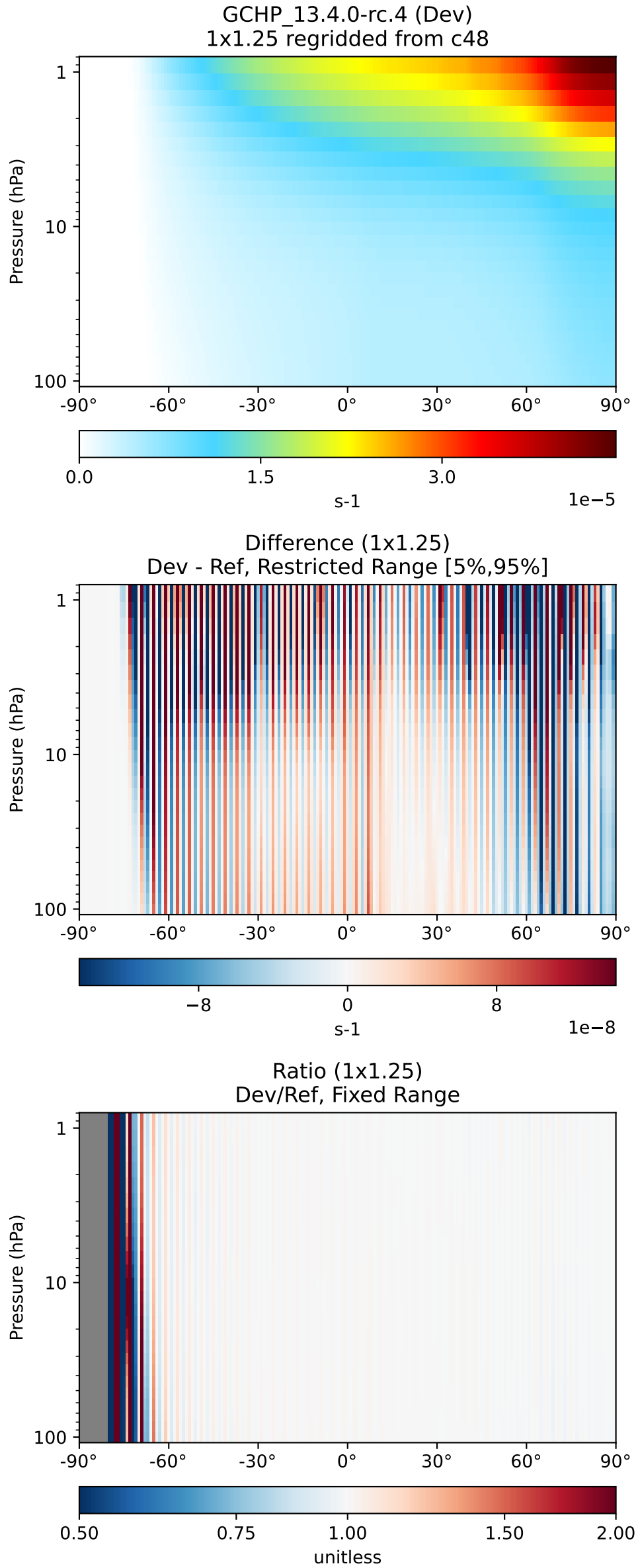
Jval_R4N2, Zonal Mean



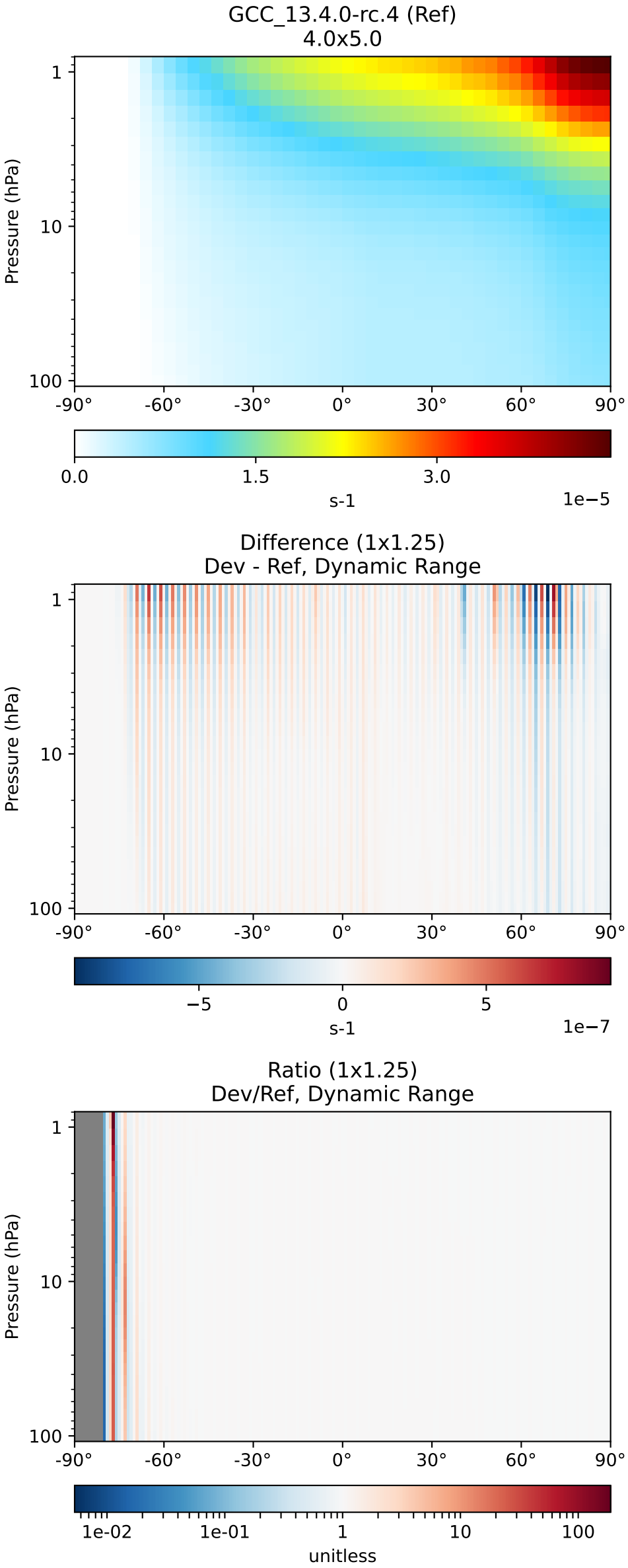


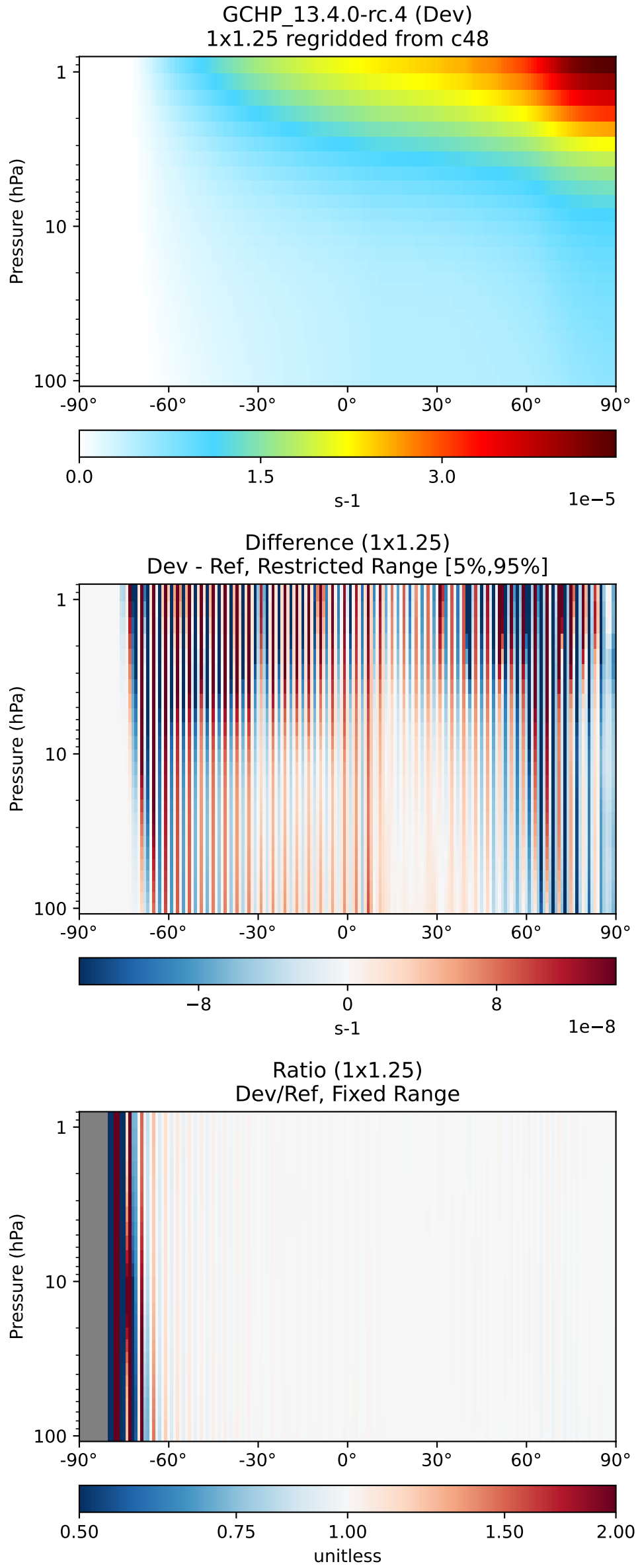
Jval_R4P, Zonal Mean



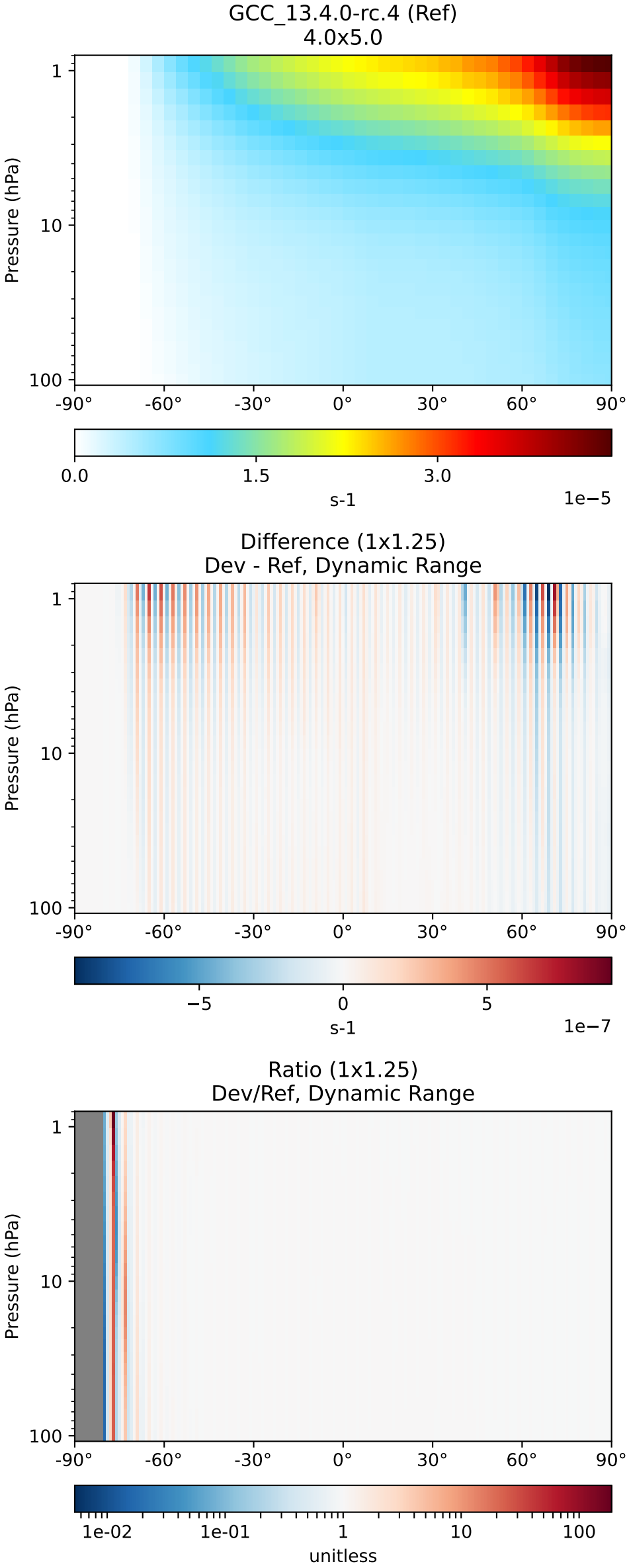


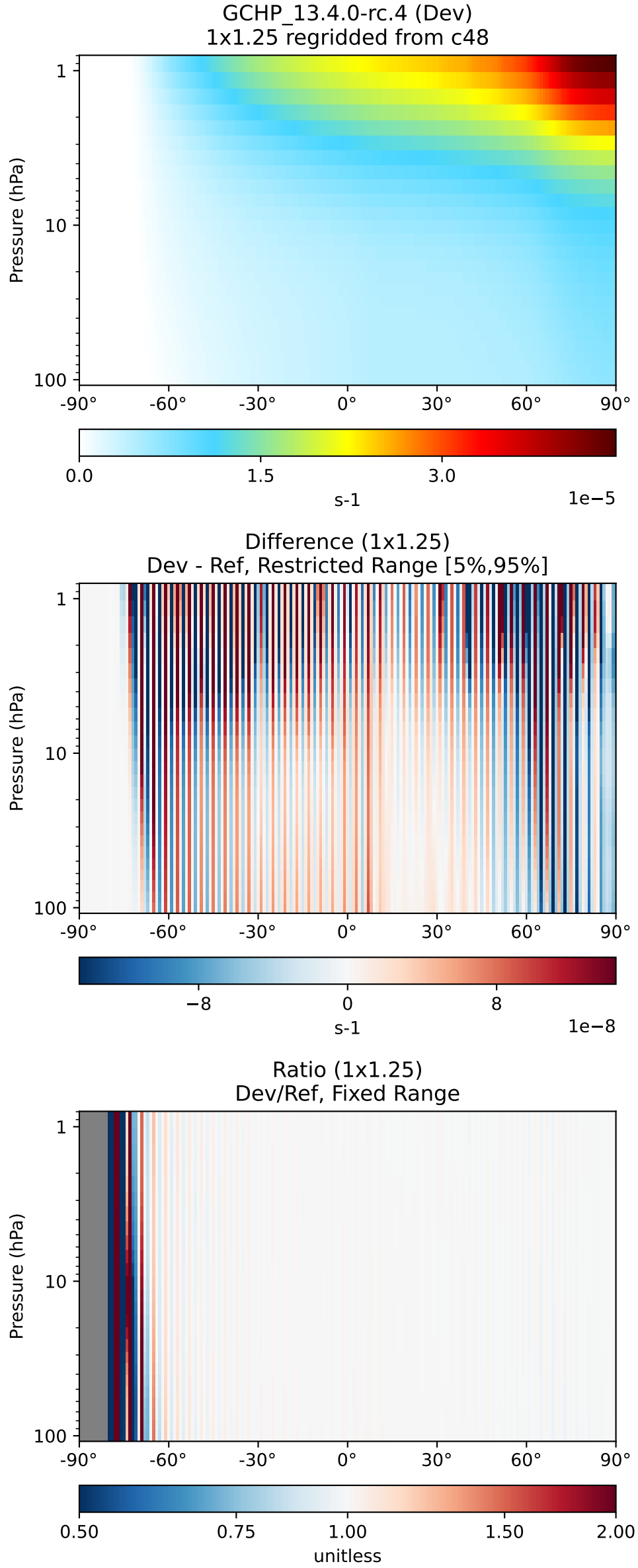
Jval_RA3P, Zonal Mean



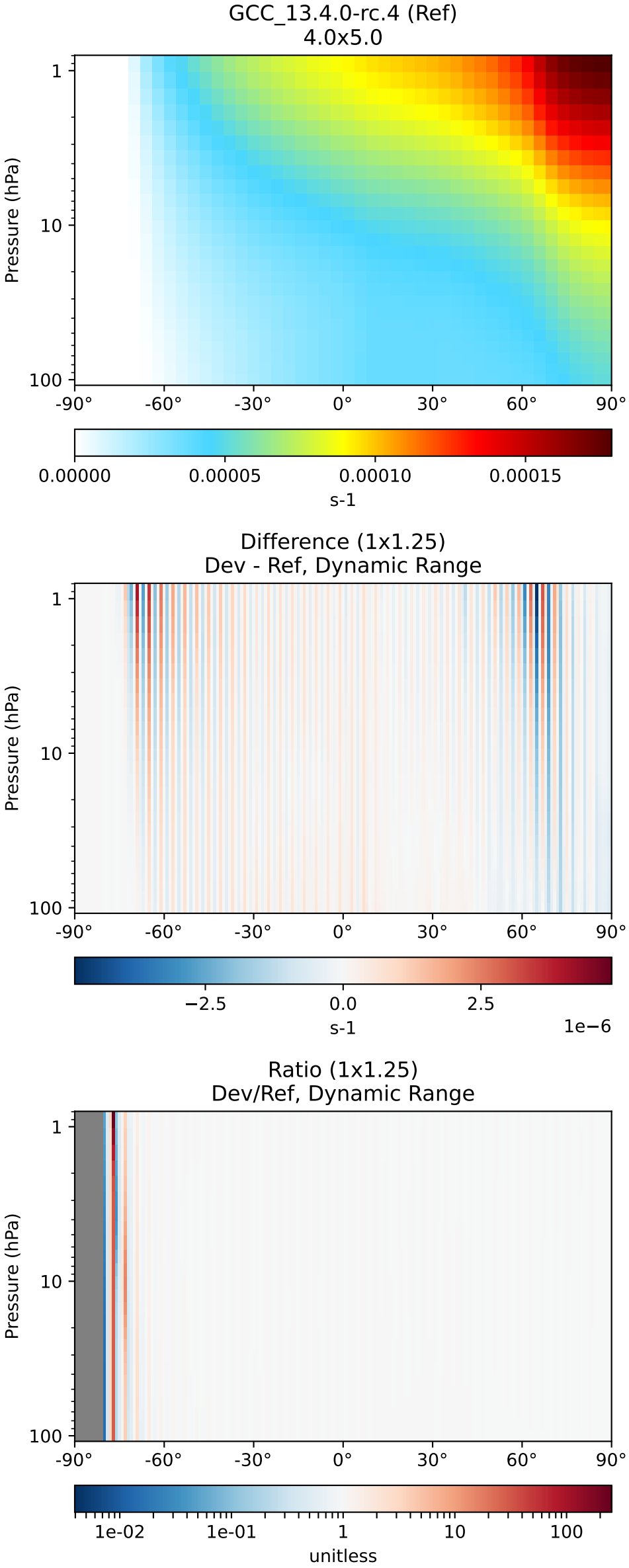


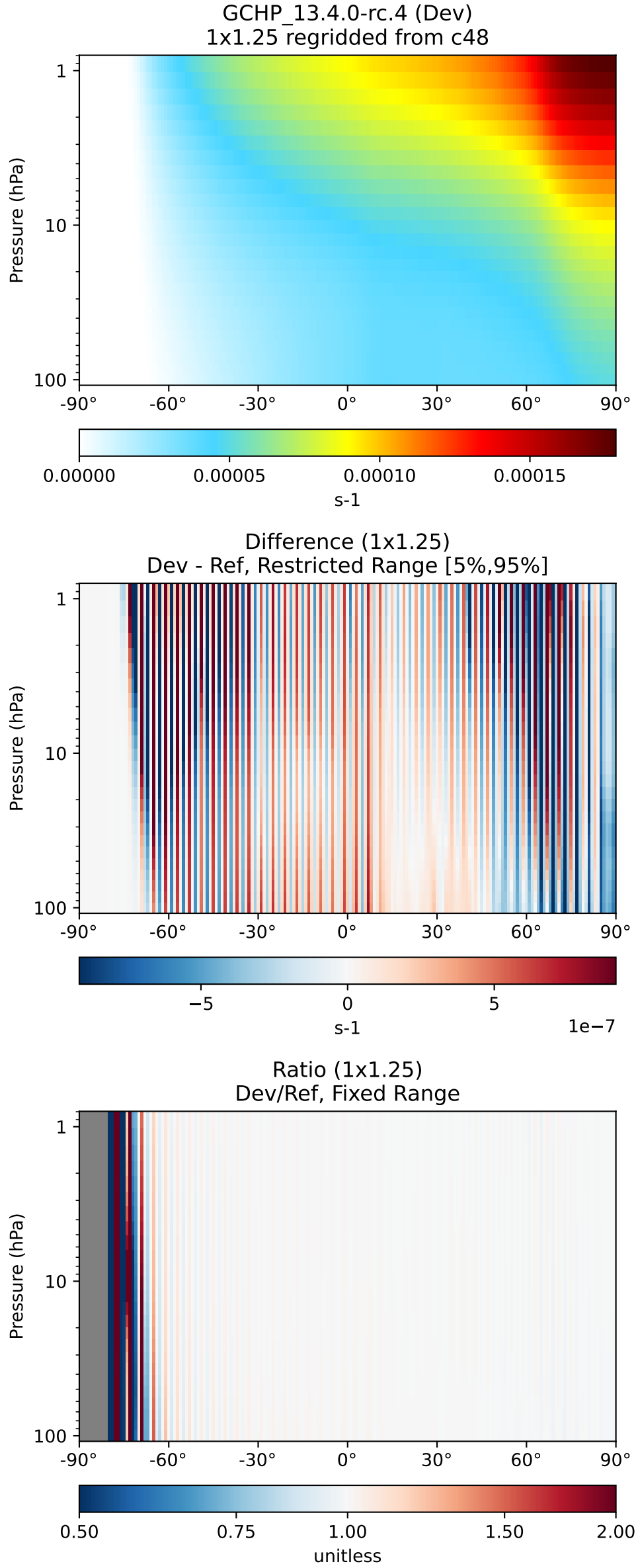
Jval_RB3P, Zonal Mean



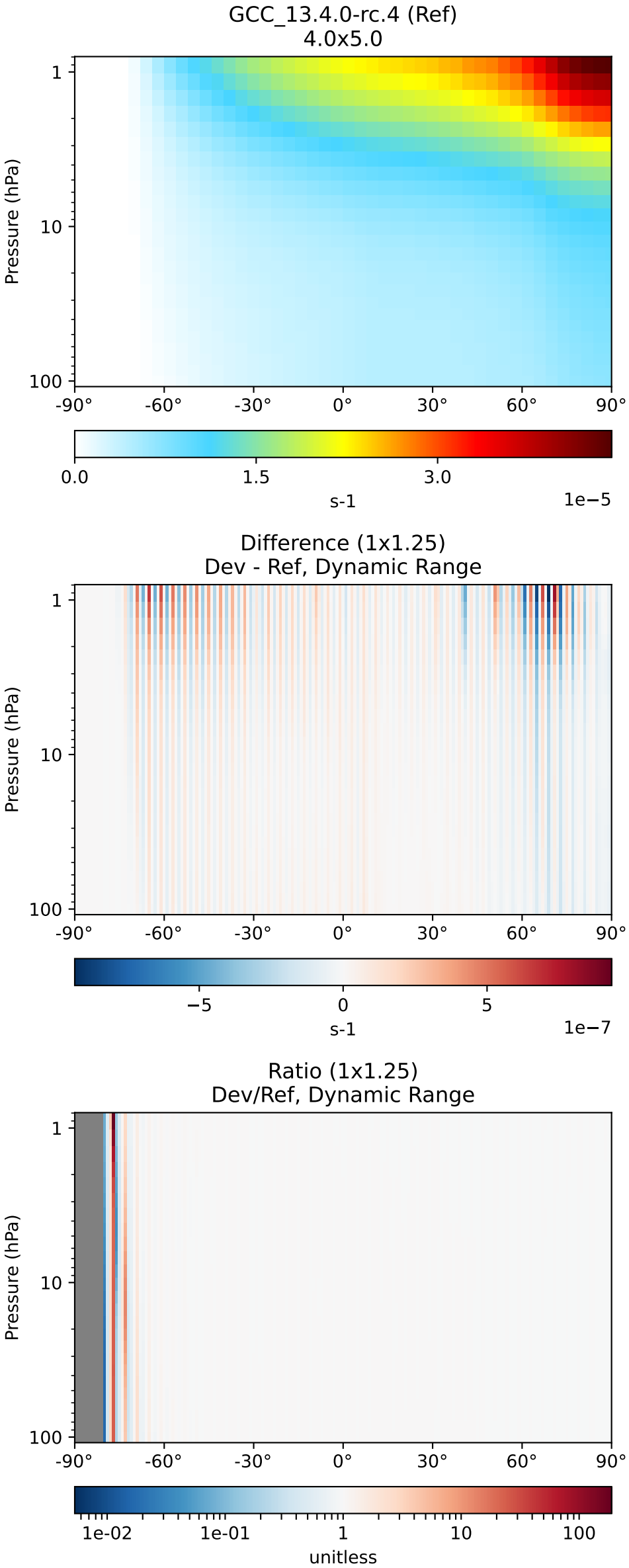


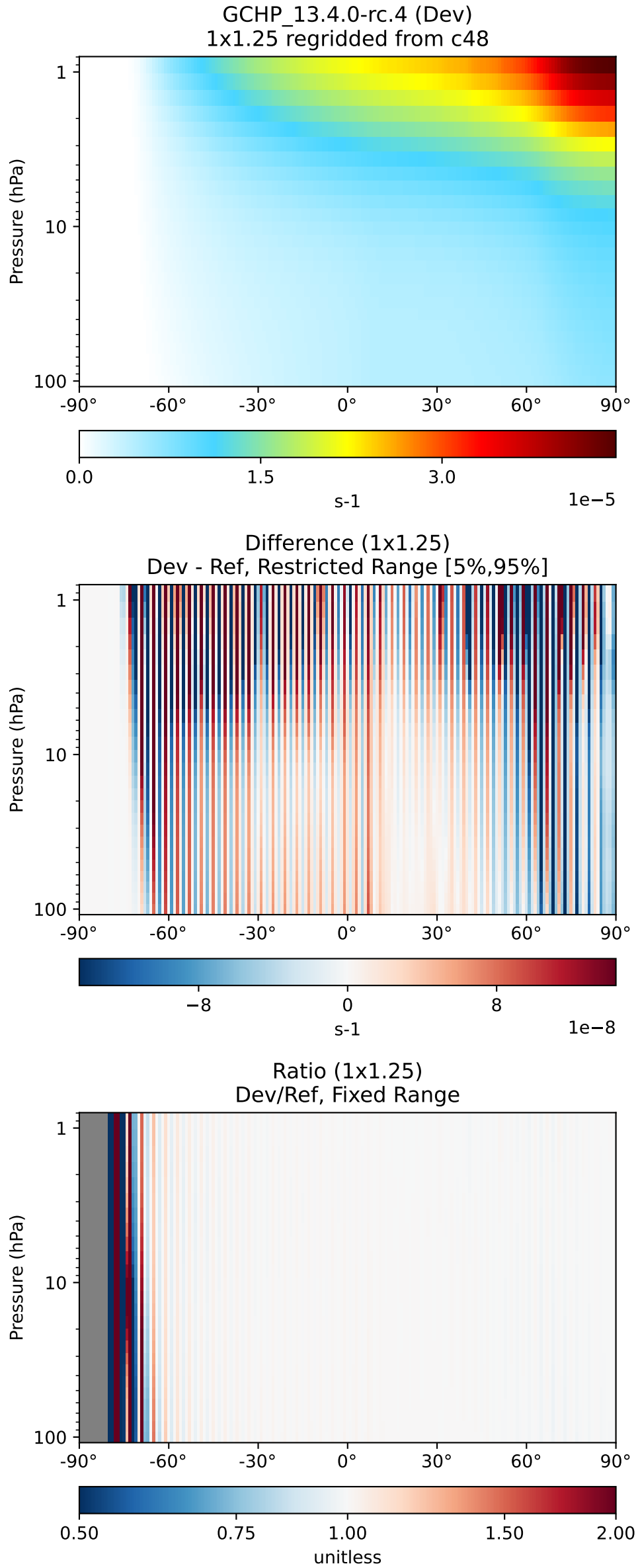
Jval_RCHO, Zonal Mean



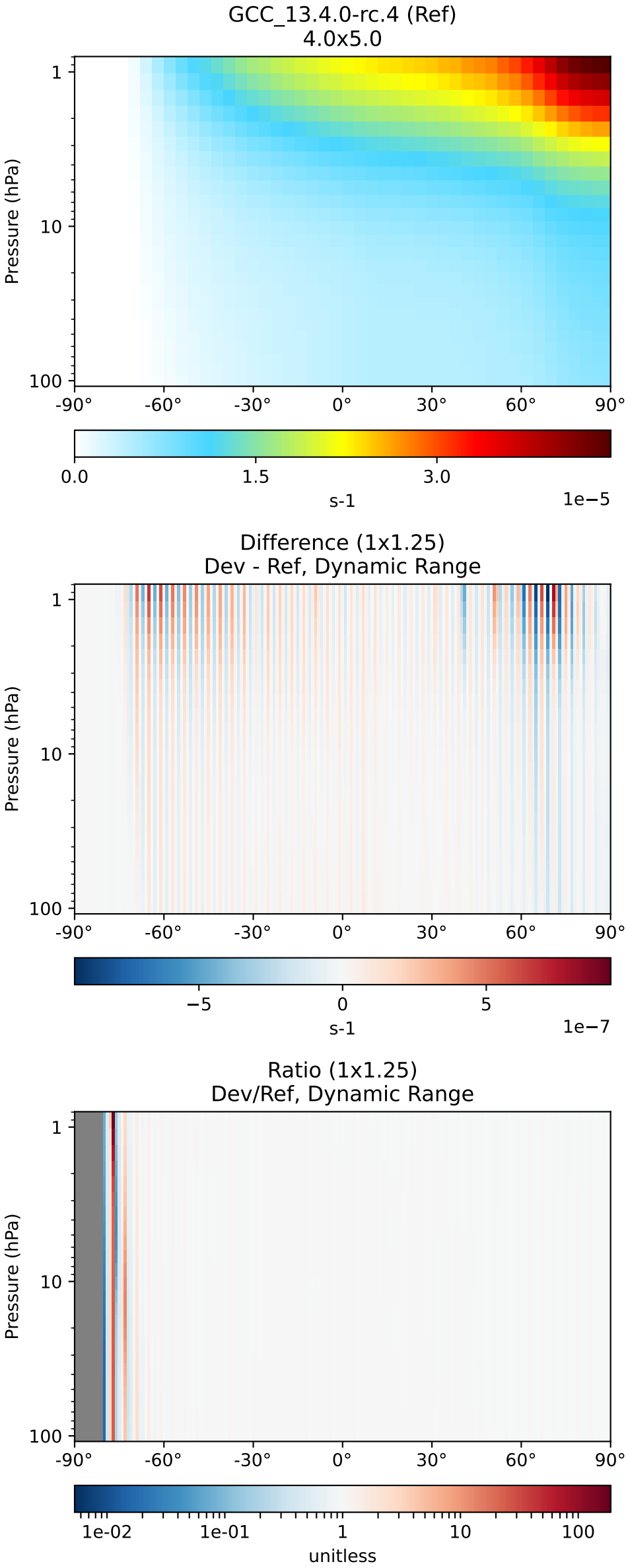


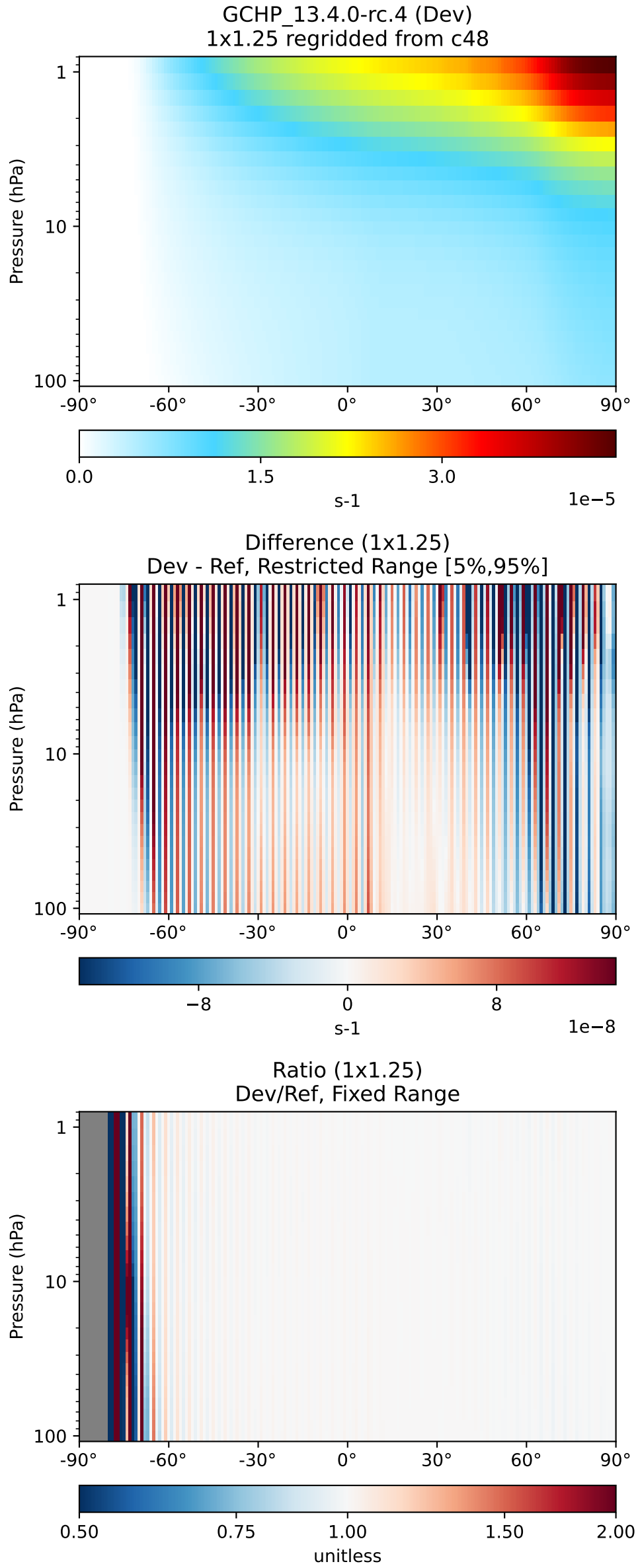
Jval_RIPA, Zonal Mean



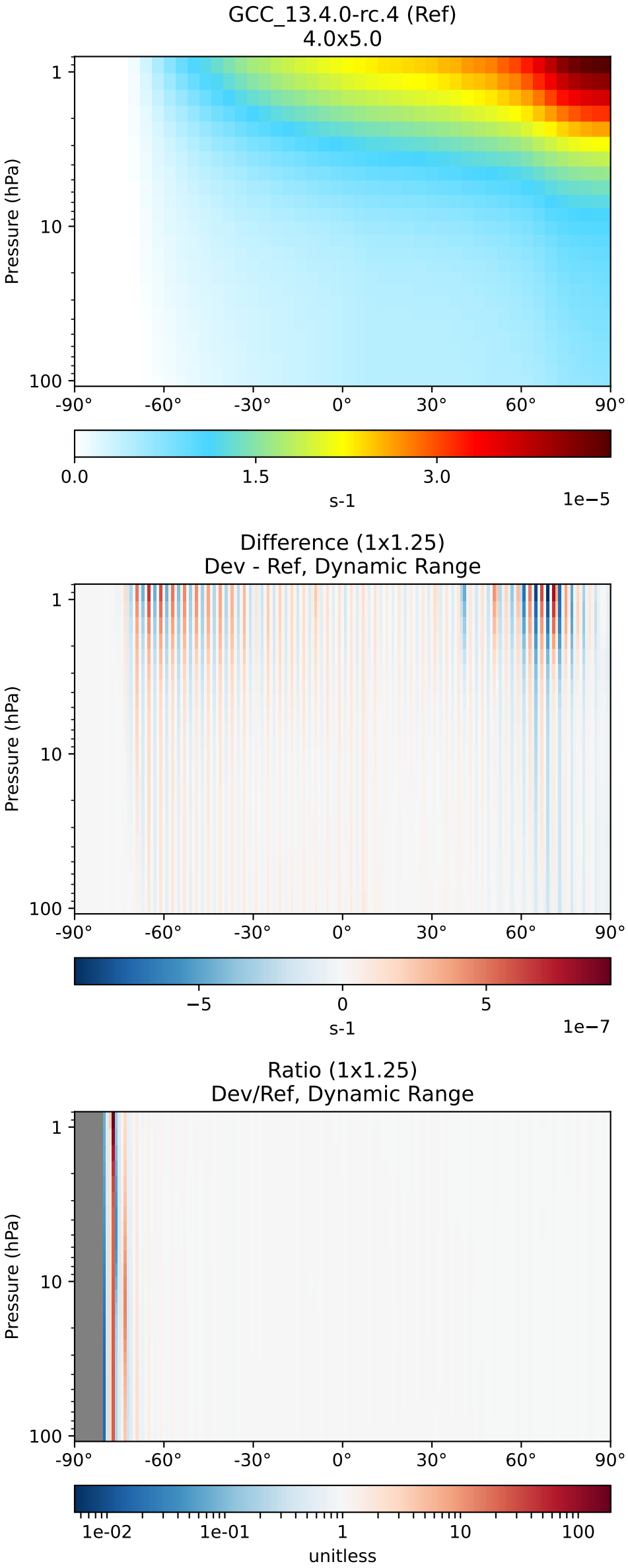


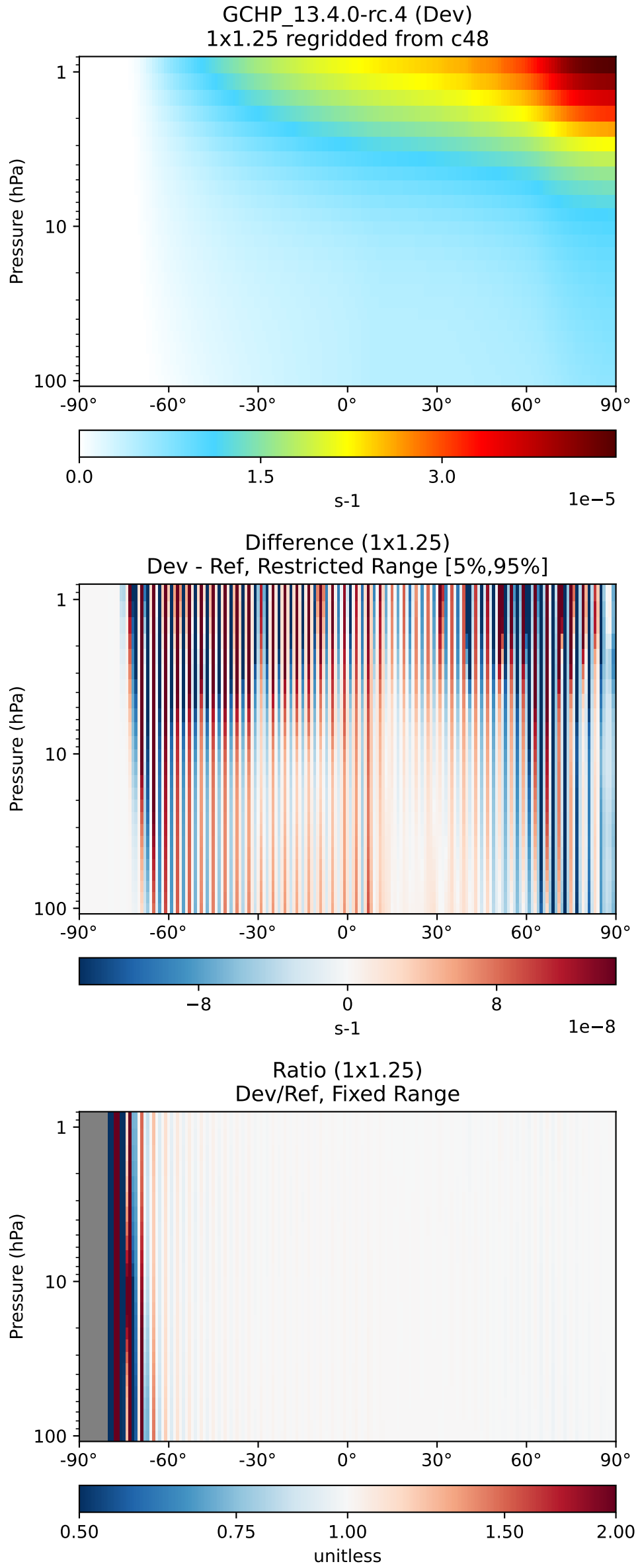
Jval_RIPB, Zonal Mean



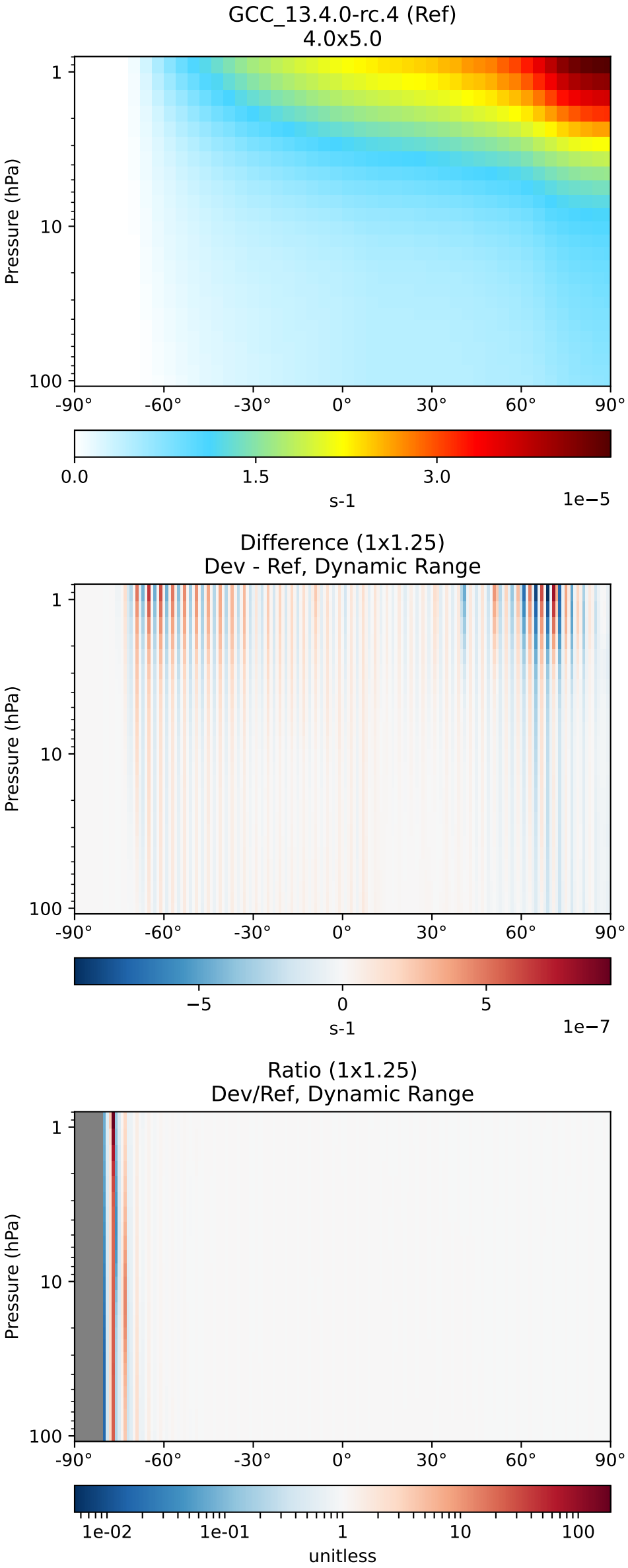


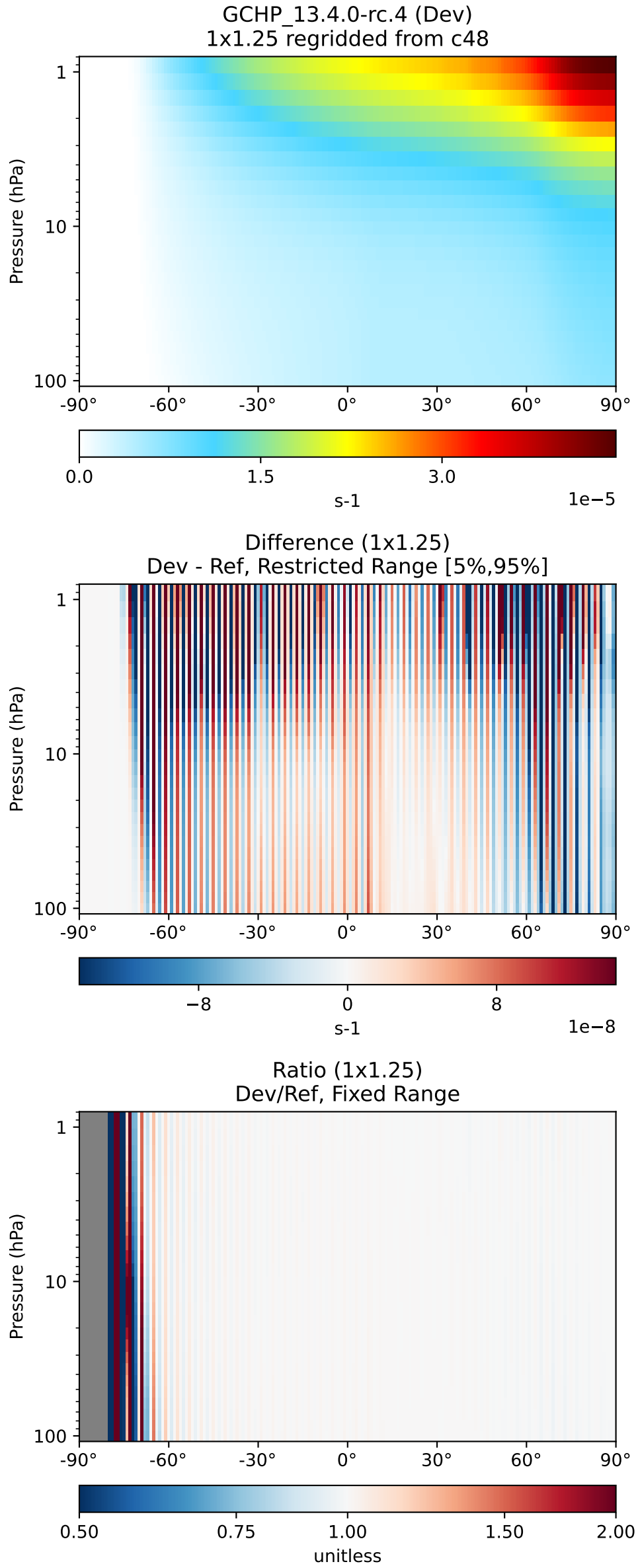
Jval_RIPC, Zonal Mean



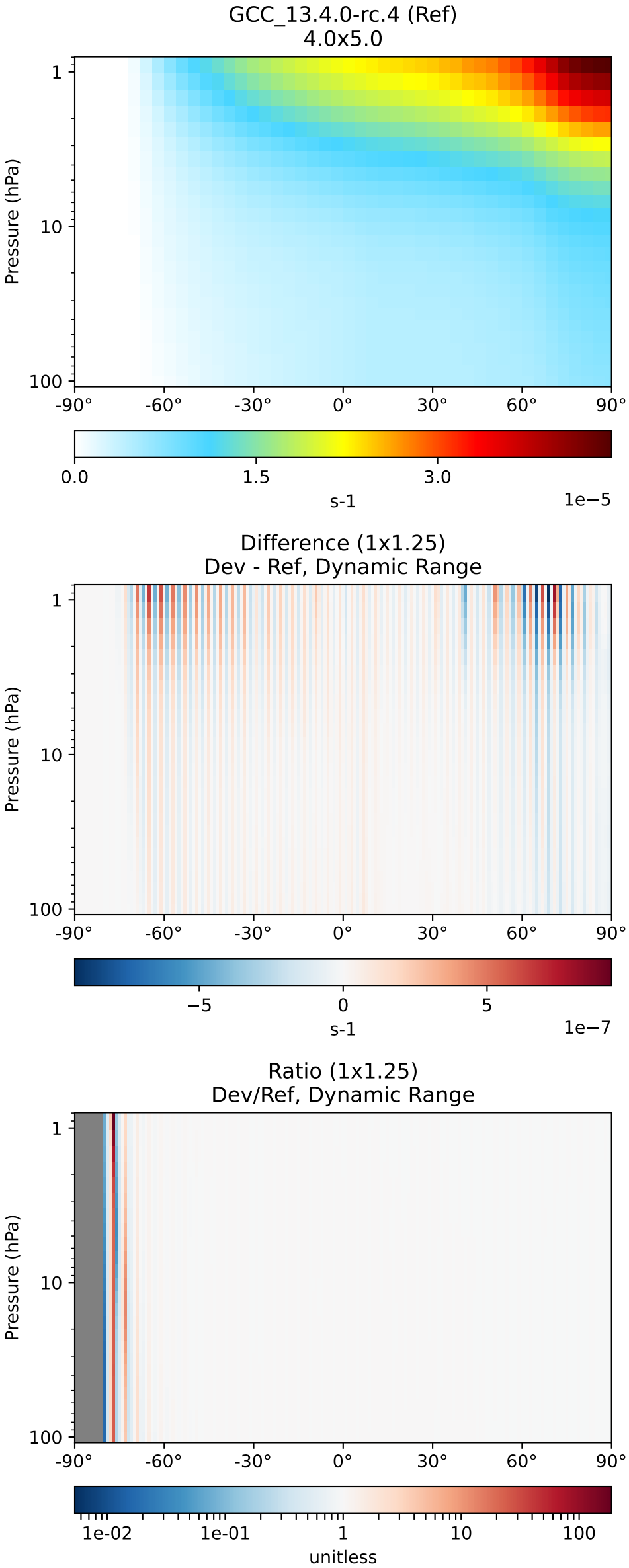


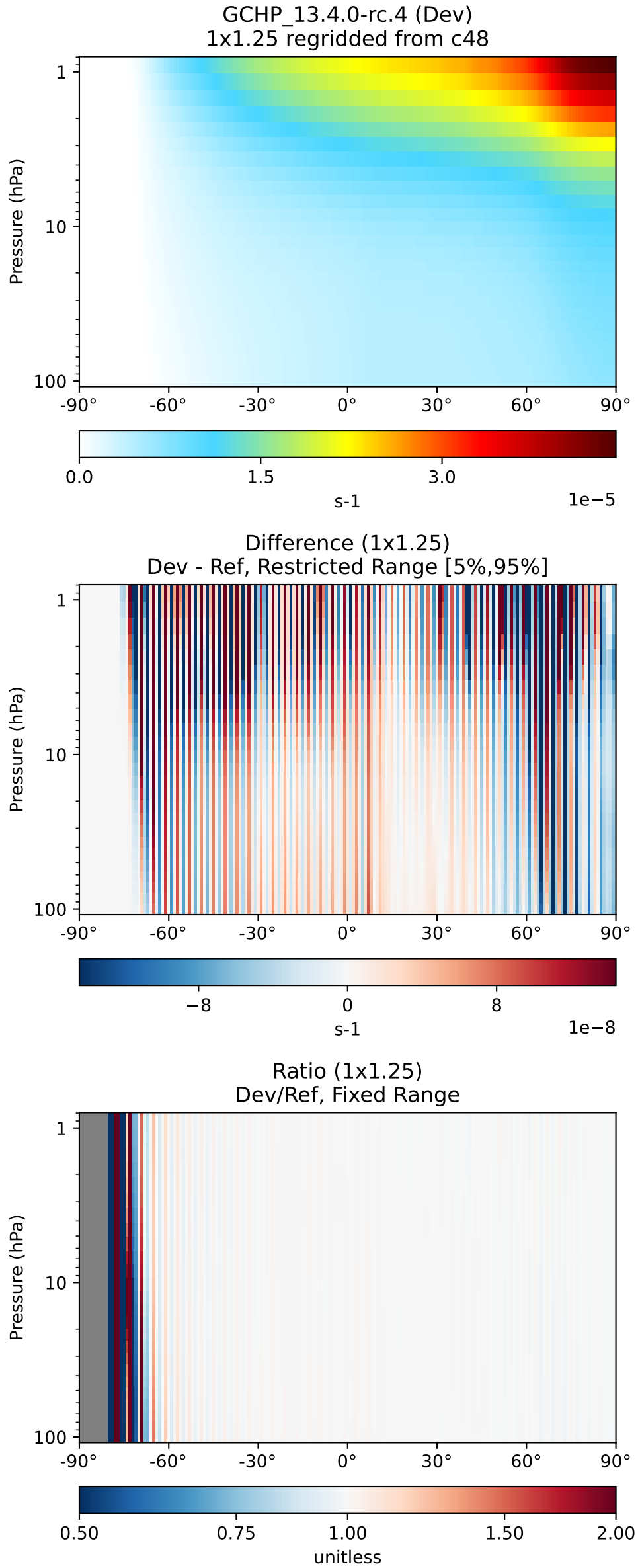
Jval_RIPD, Zonal Mean





Jval_RP, Zonal Mean





Jval_SO4, Zonal Mean

