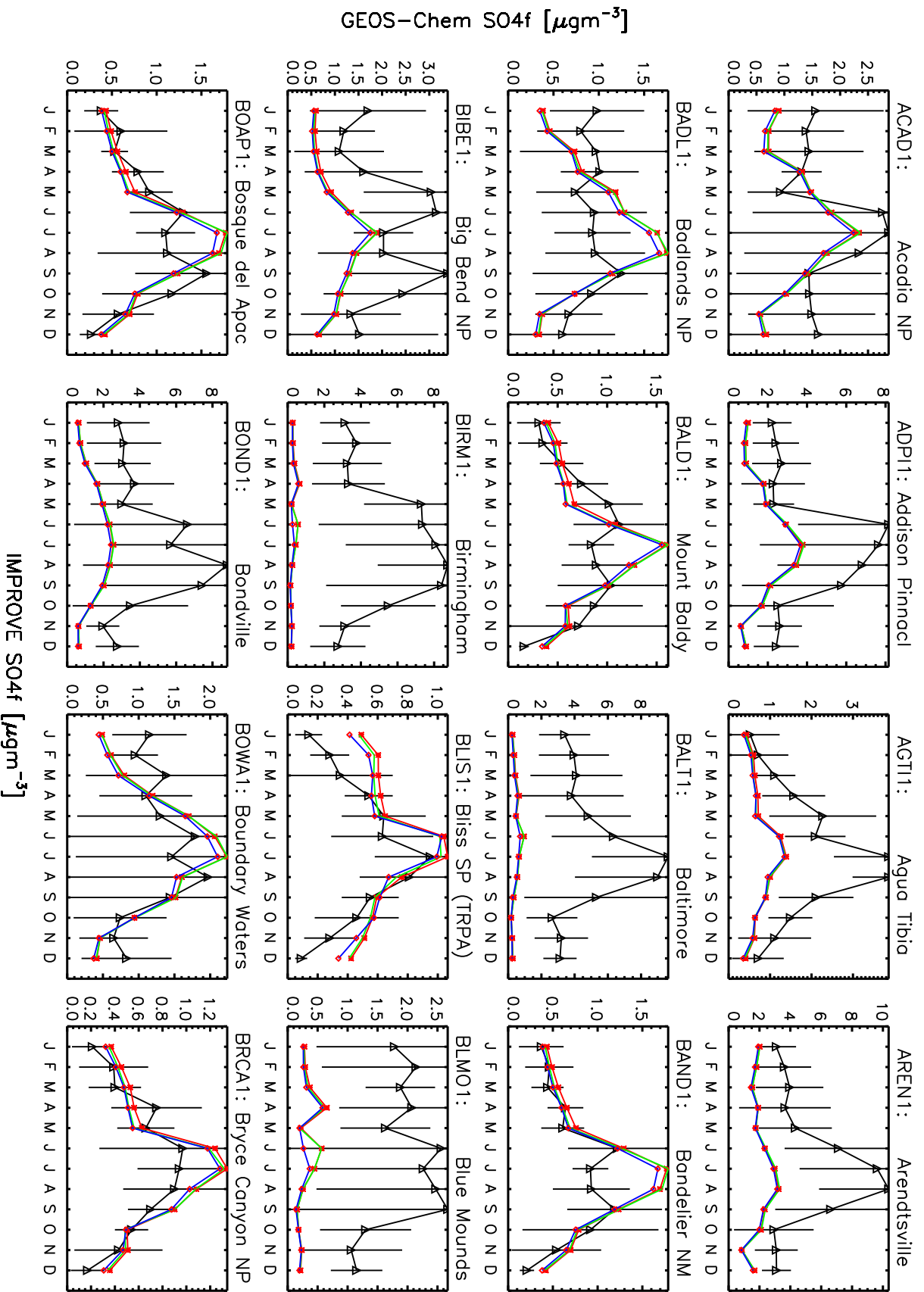
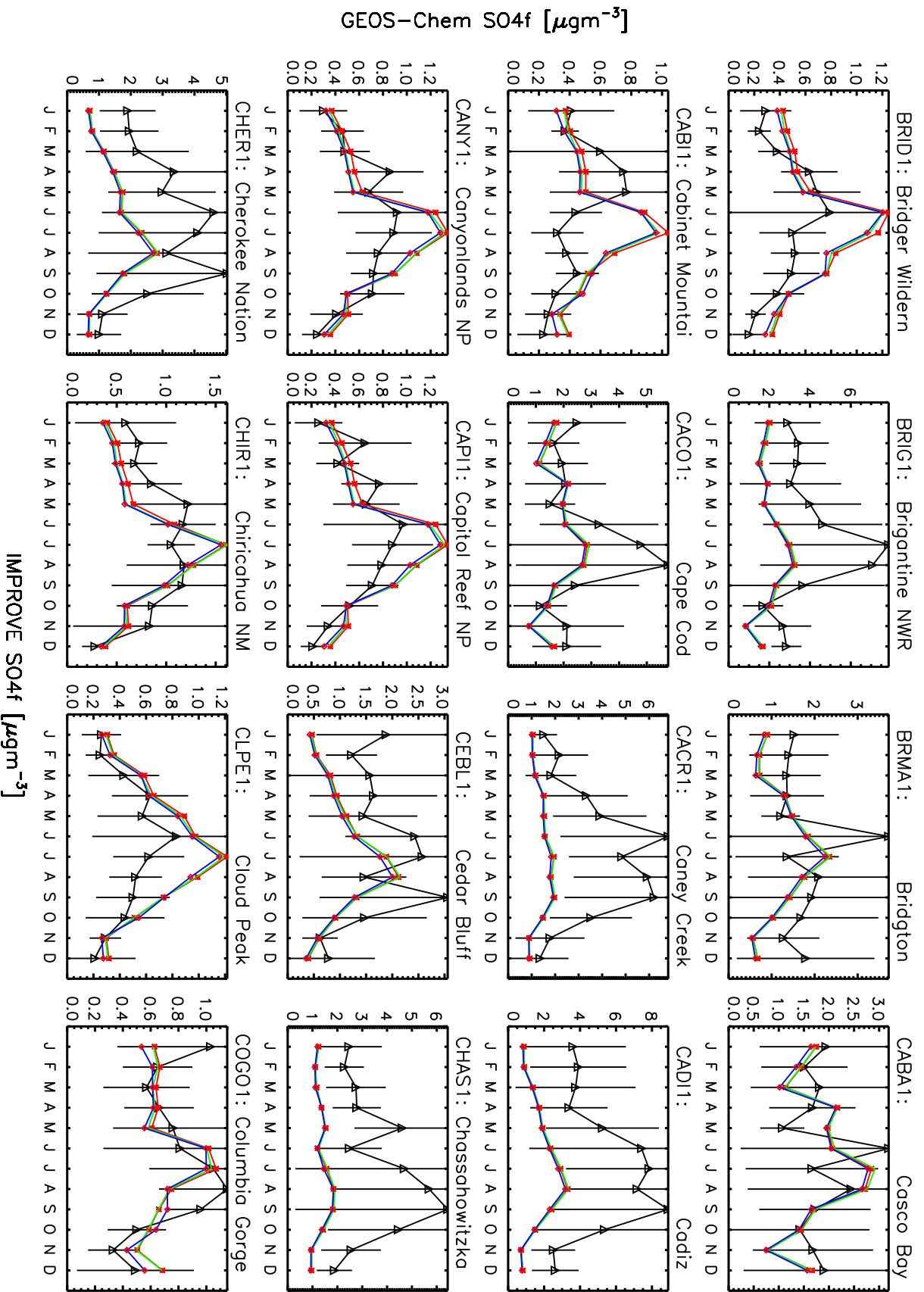


Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)

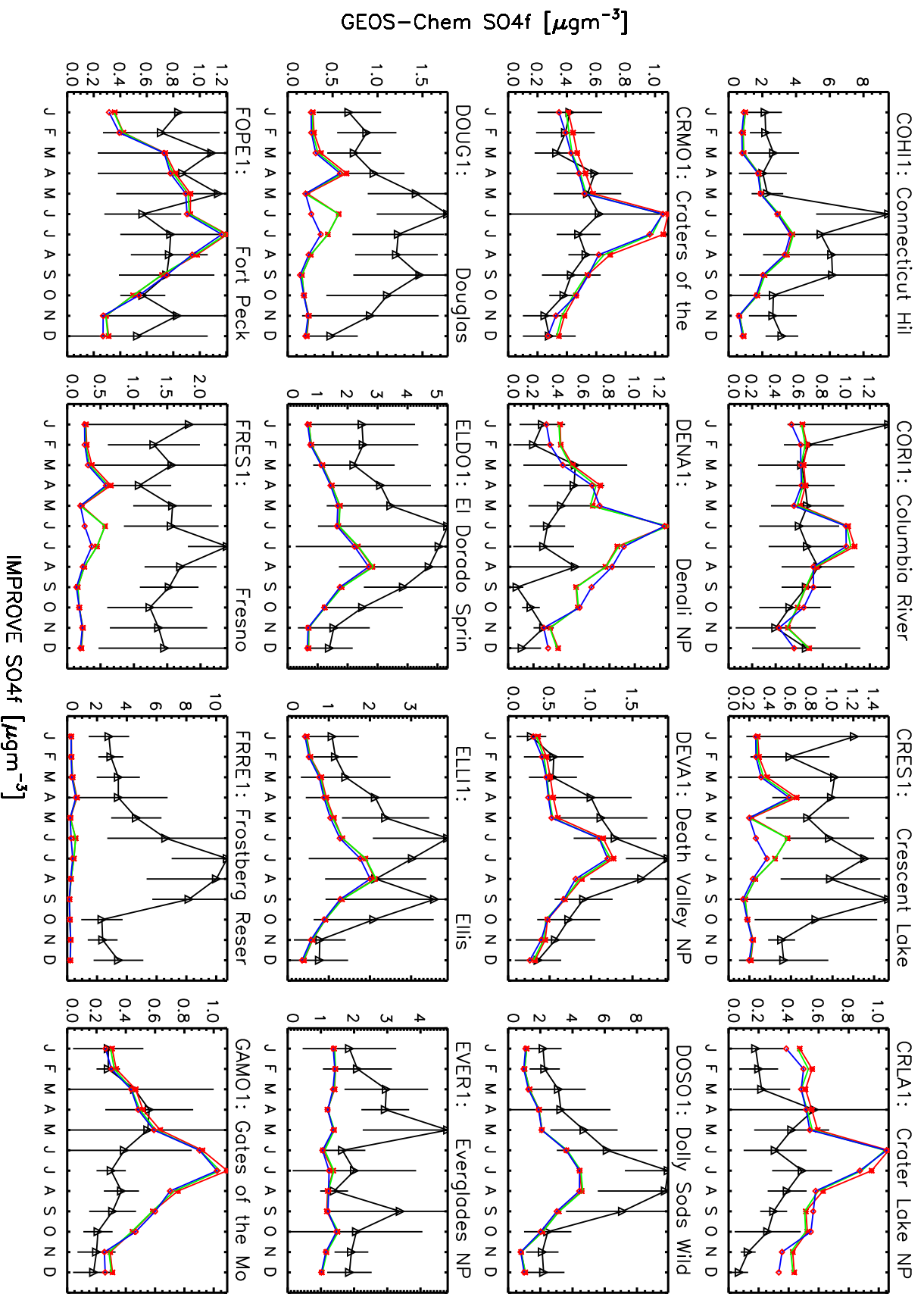


IMPROVE SO<sub>4</sub>f [ $\mu\text{gm}^{-3}$ ]

Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)

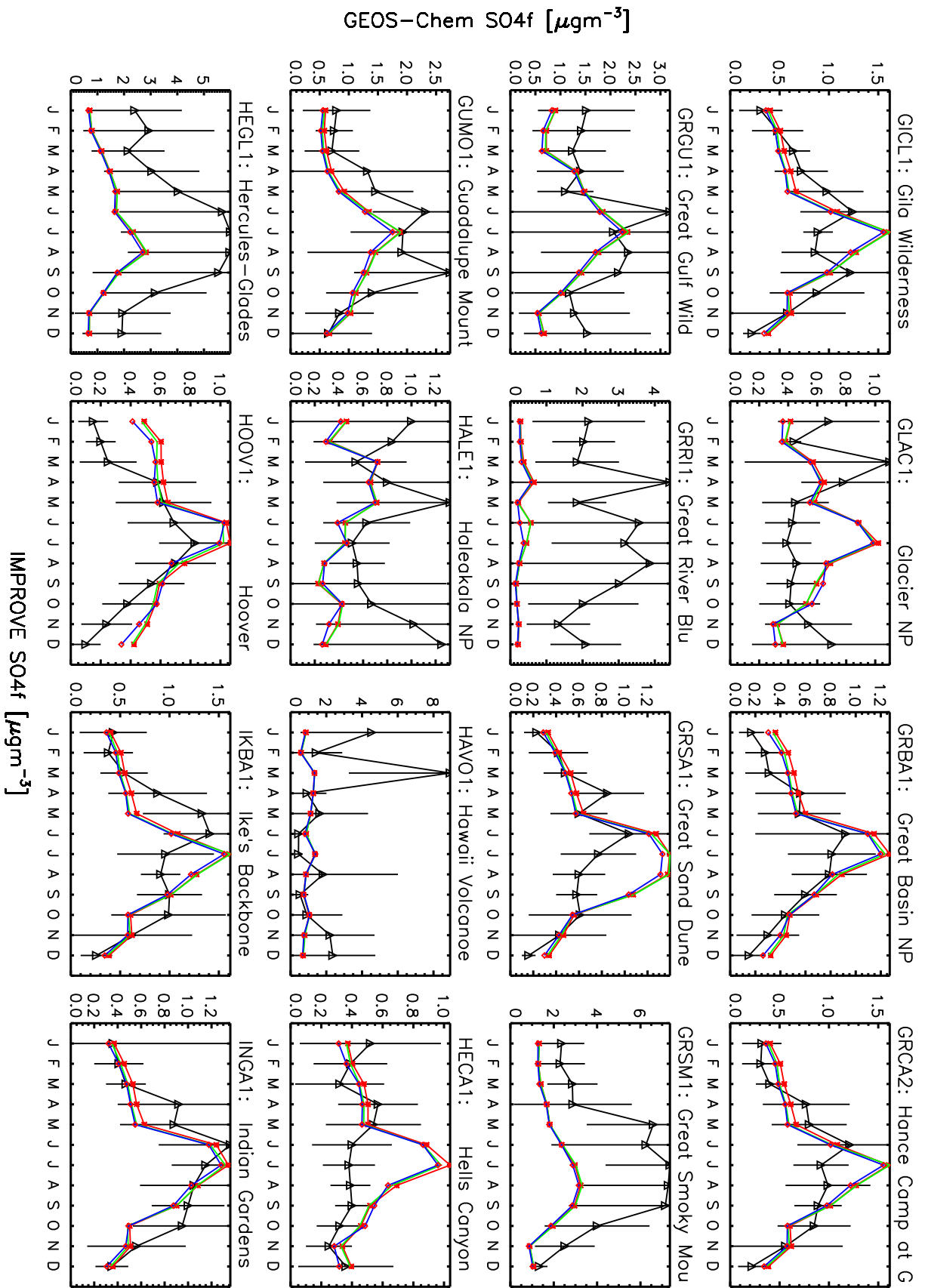


Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)

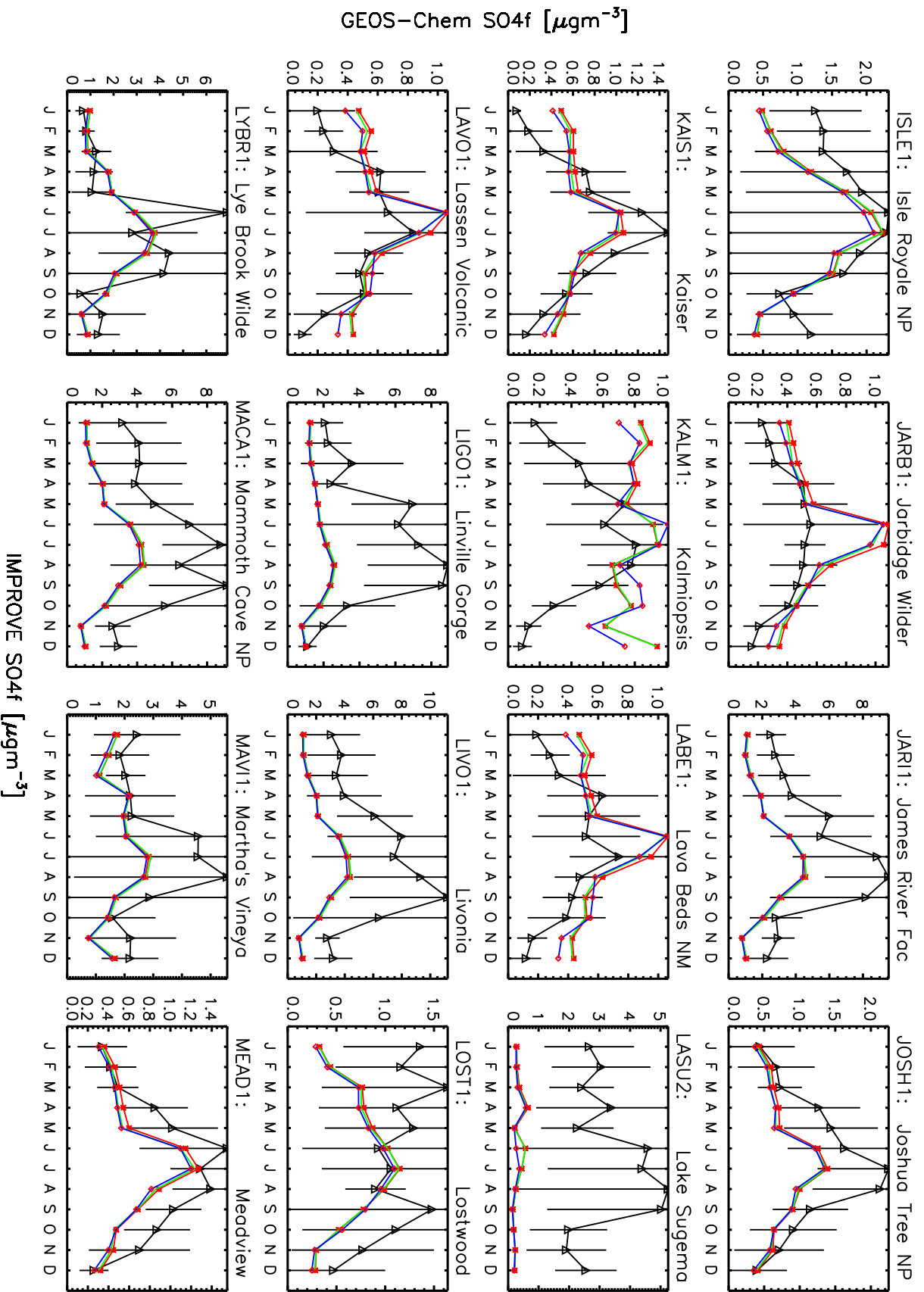


**IMPROVE SO<sub>4</sub>f [ $\mu\text{gm}^{-3}$ ]**

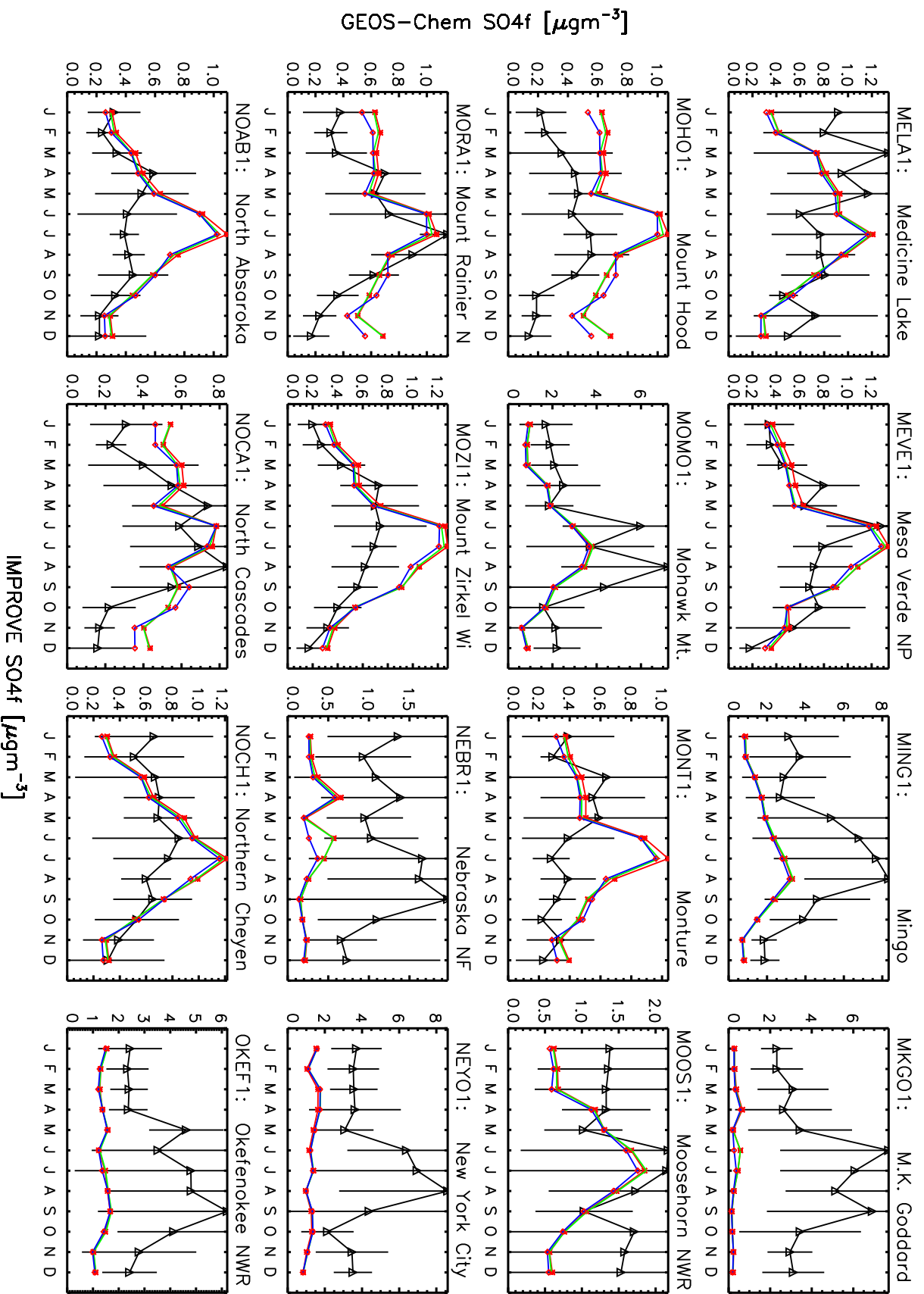
Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)



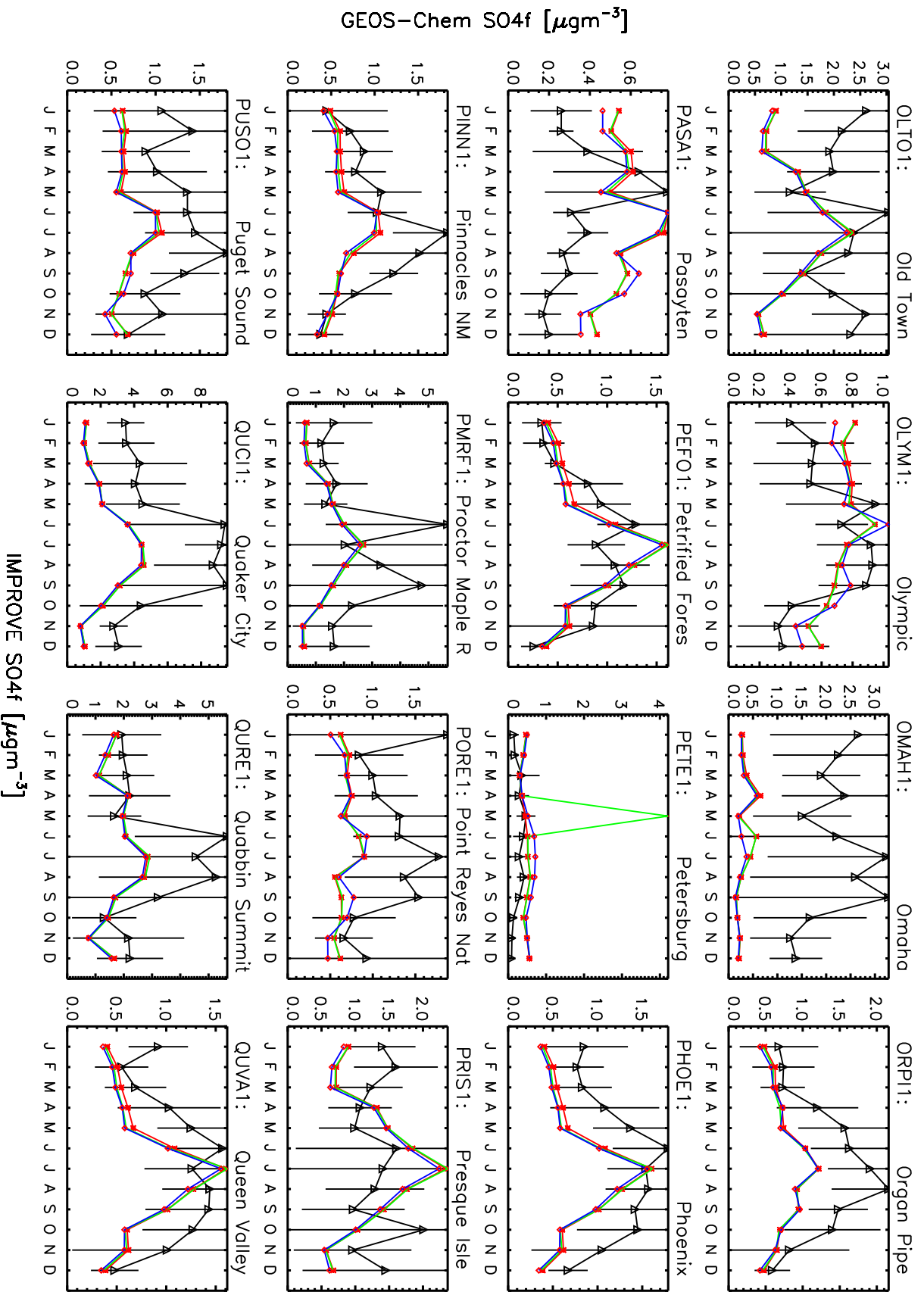
Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)



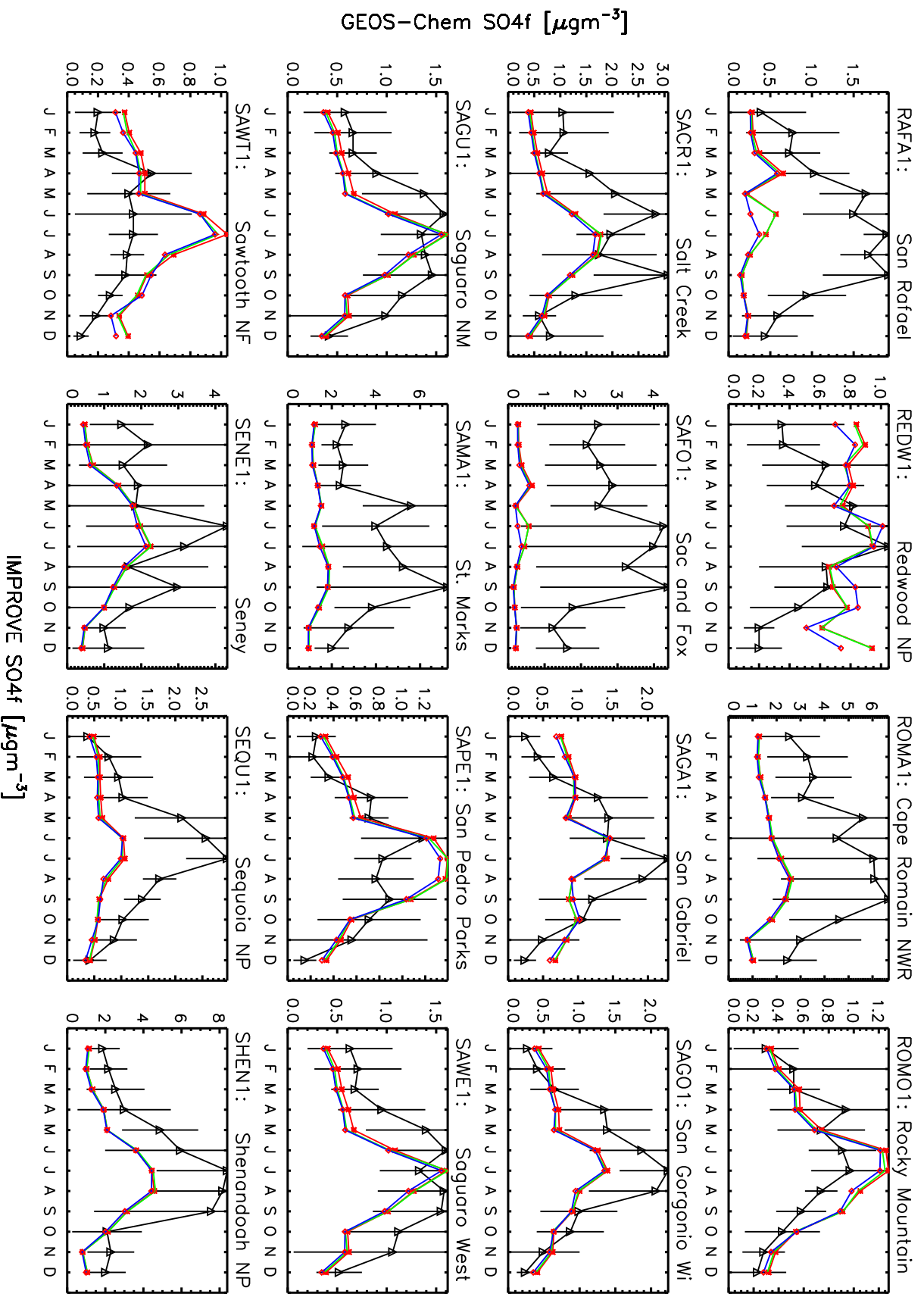
Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)



Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)

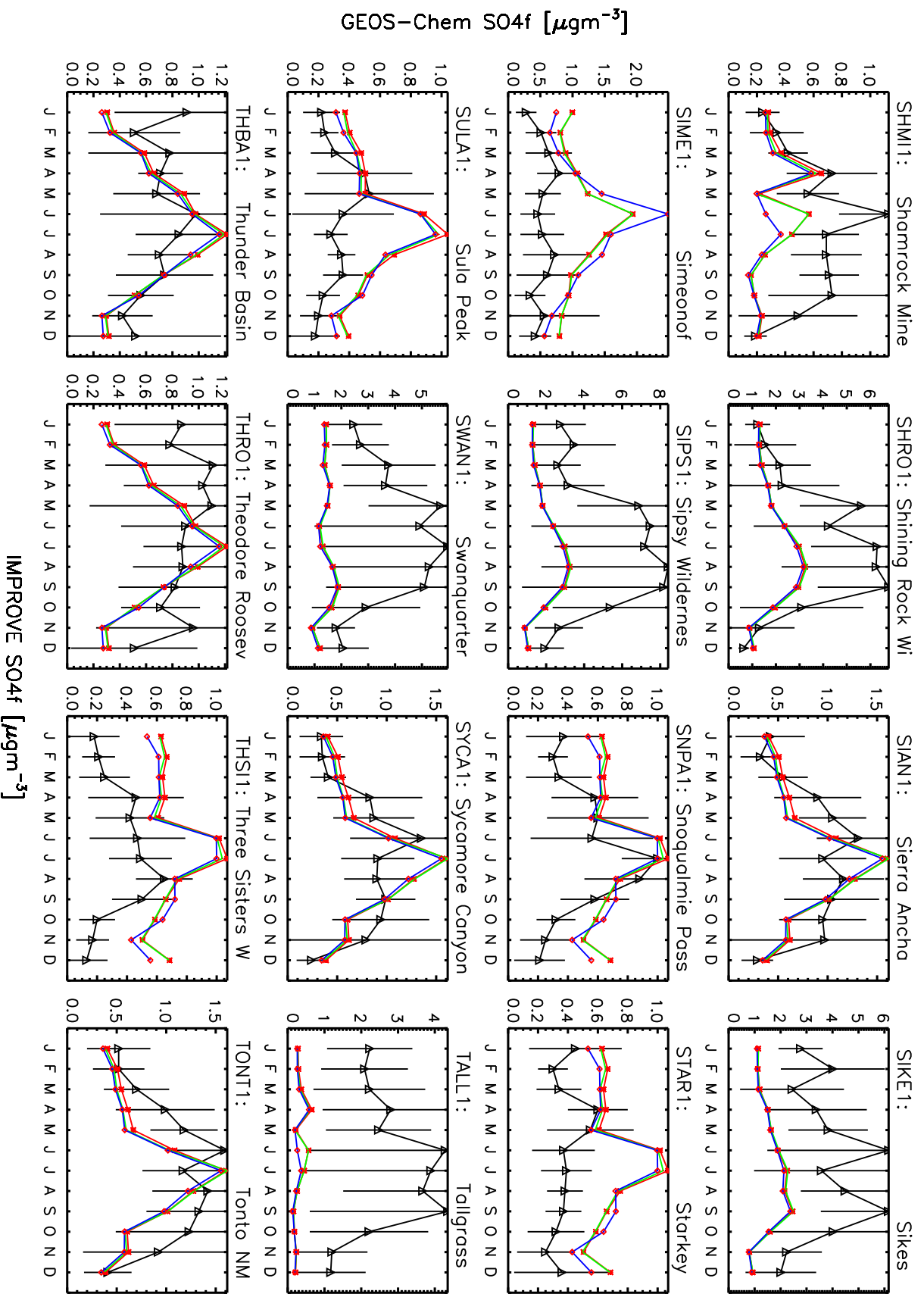


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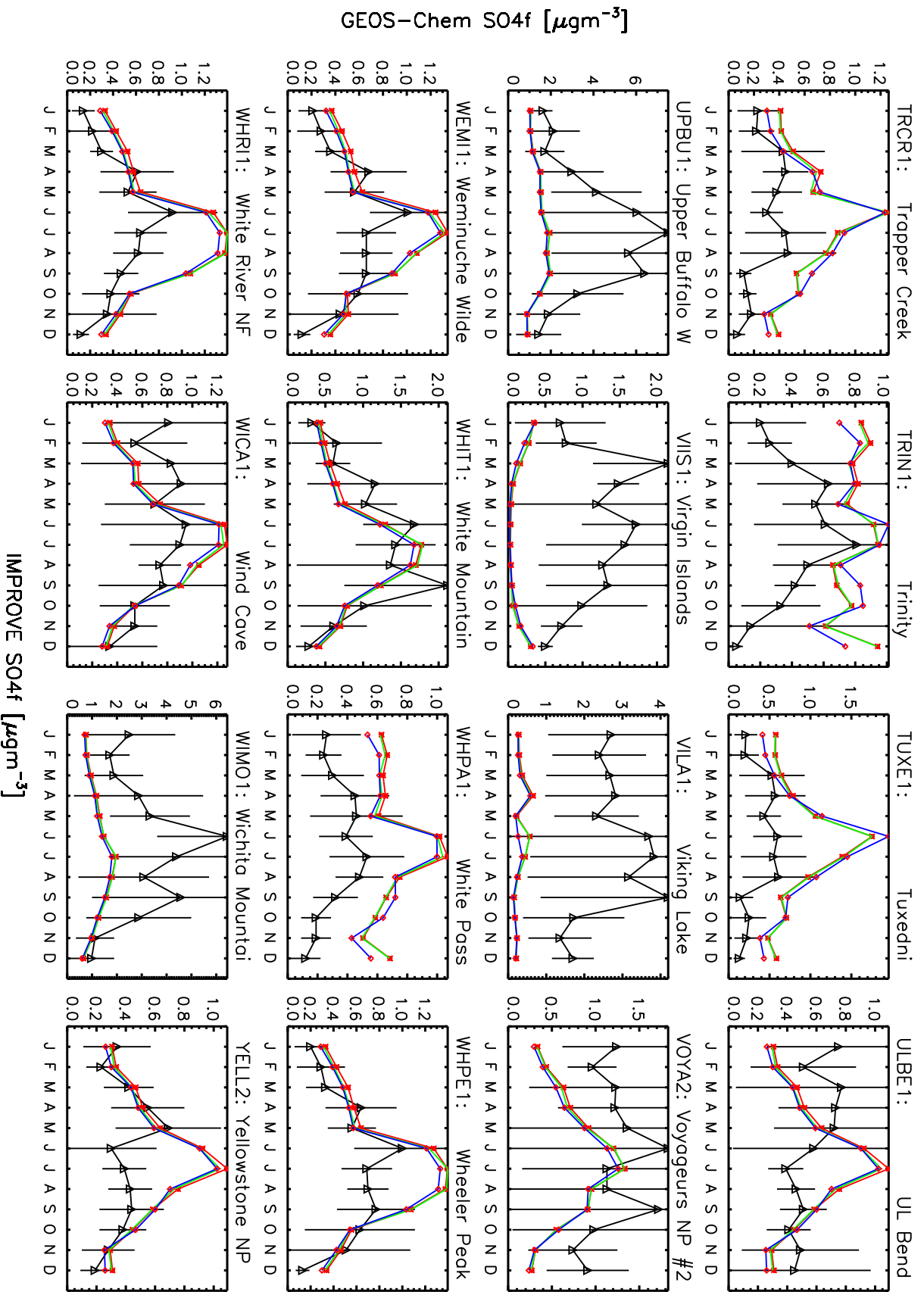




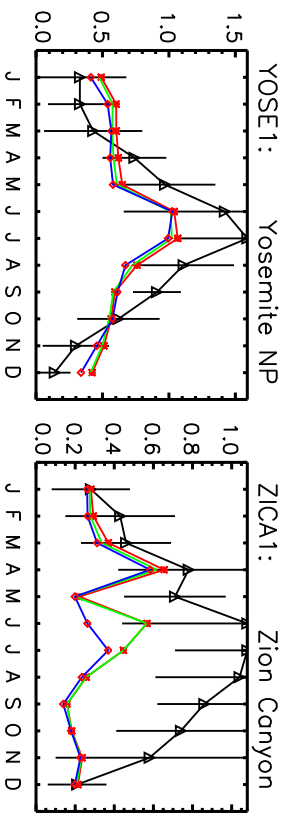
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Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)



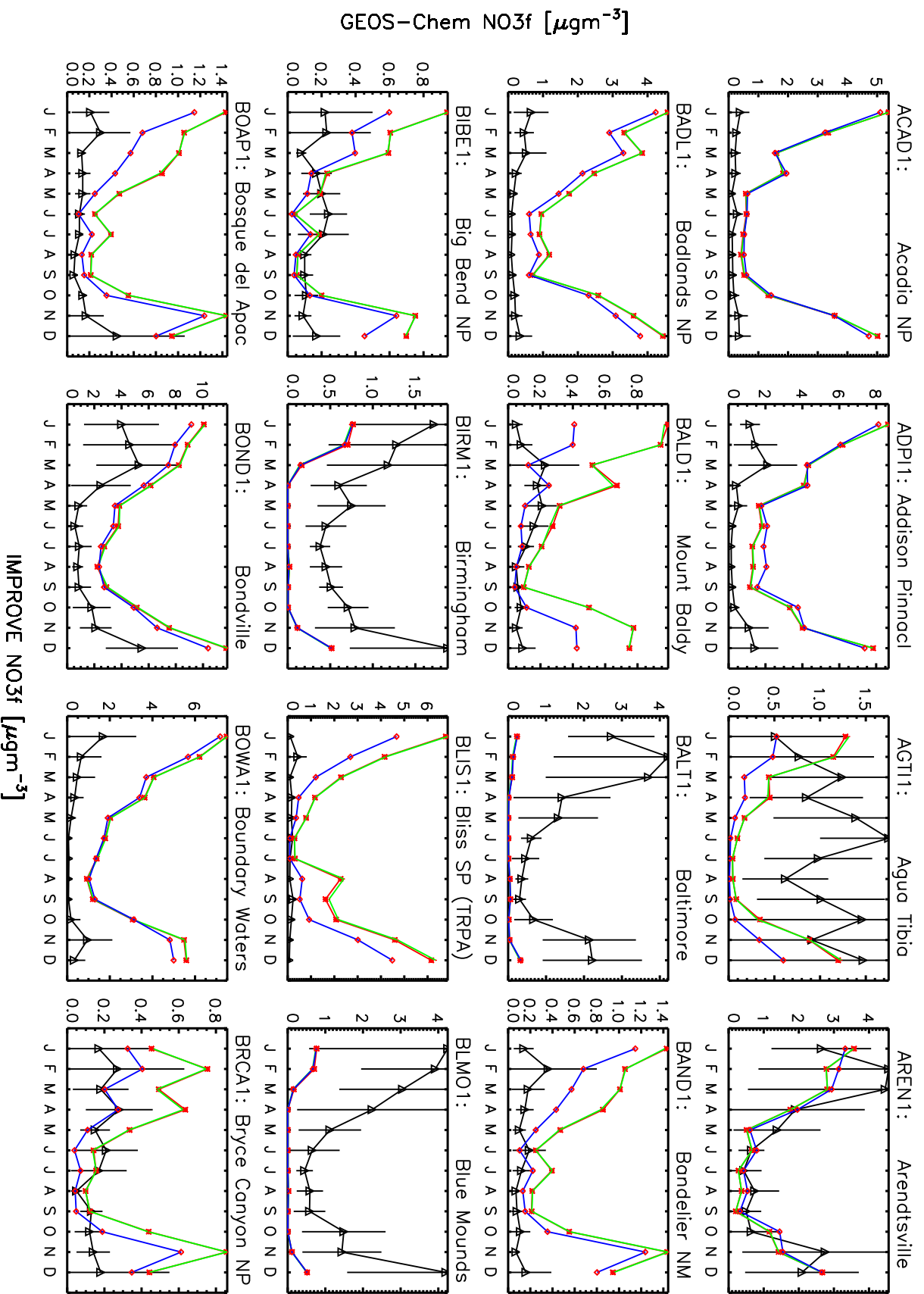
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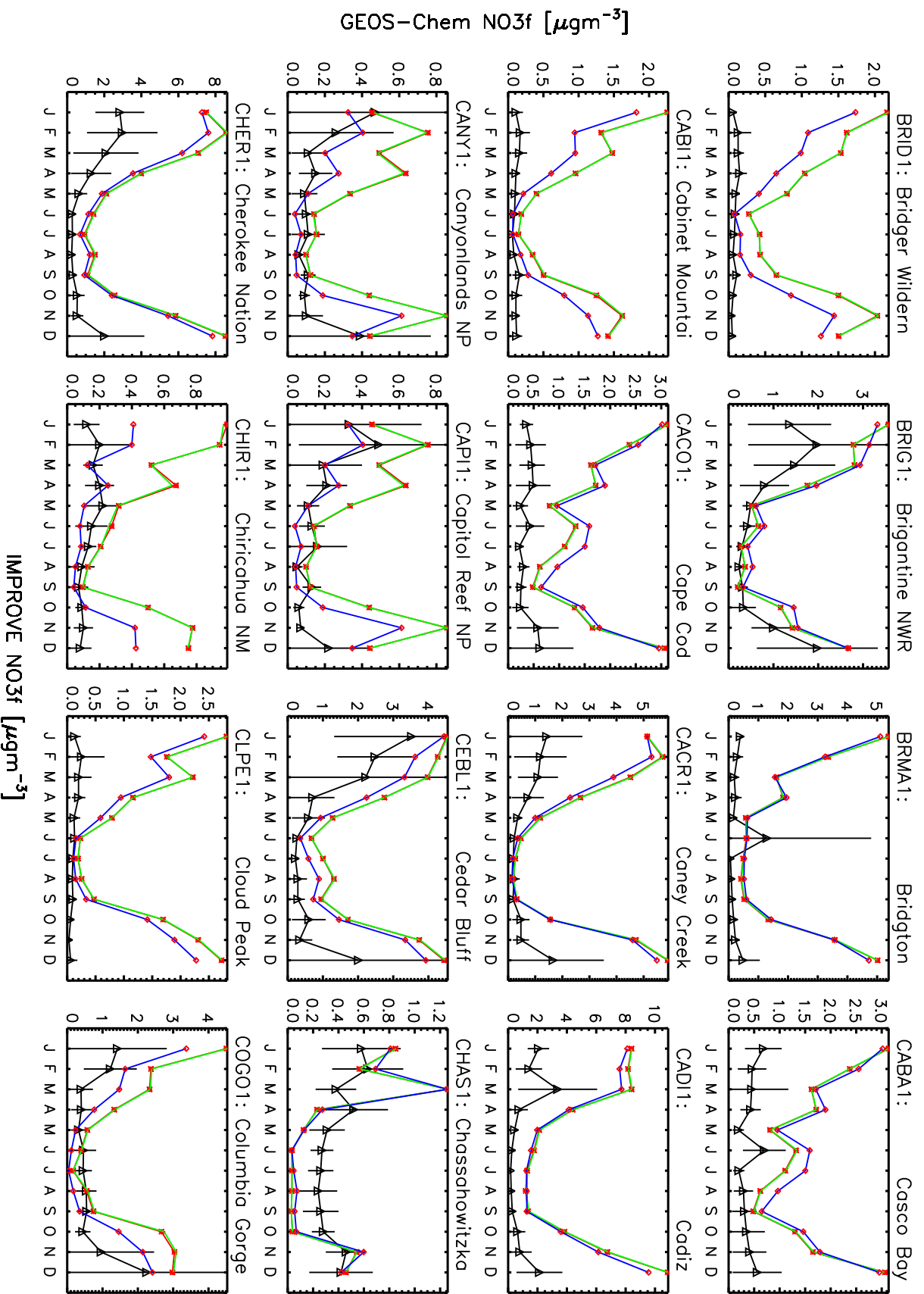
GEOS-Chem SO4f [ $\mu\text{gm}^{-3}$ ]

IMPROVE SO4f [ $\mu\text{gm}^{-3}$ ]

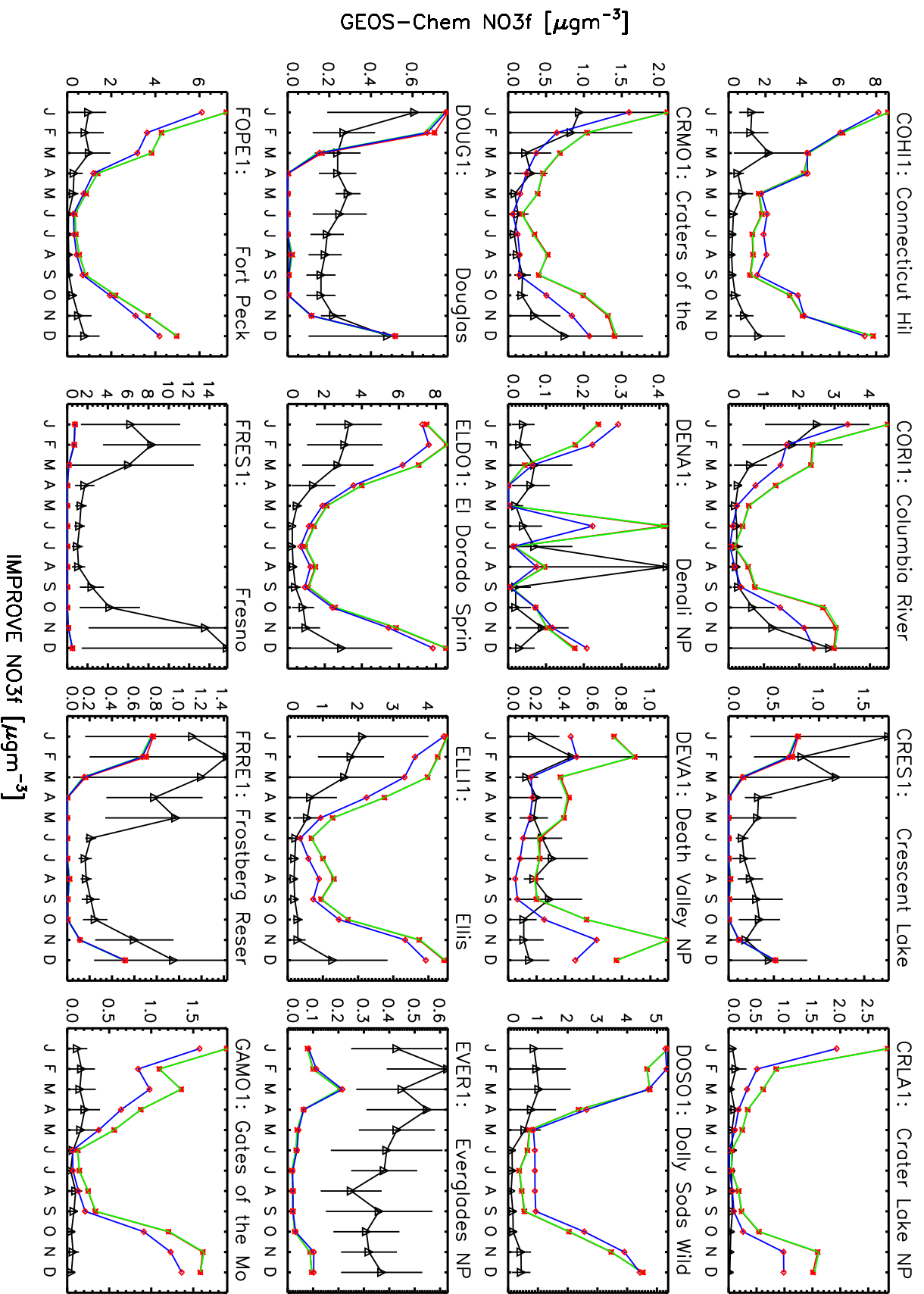
Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)



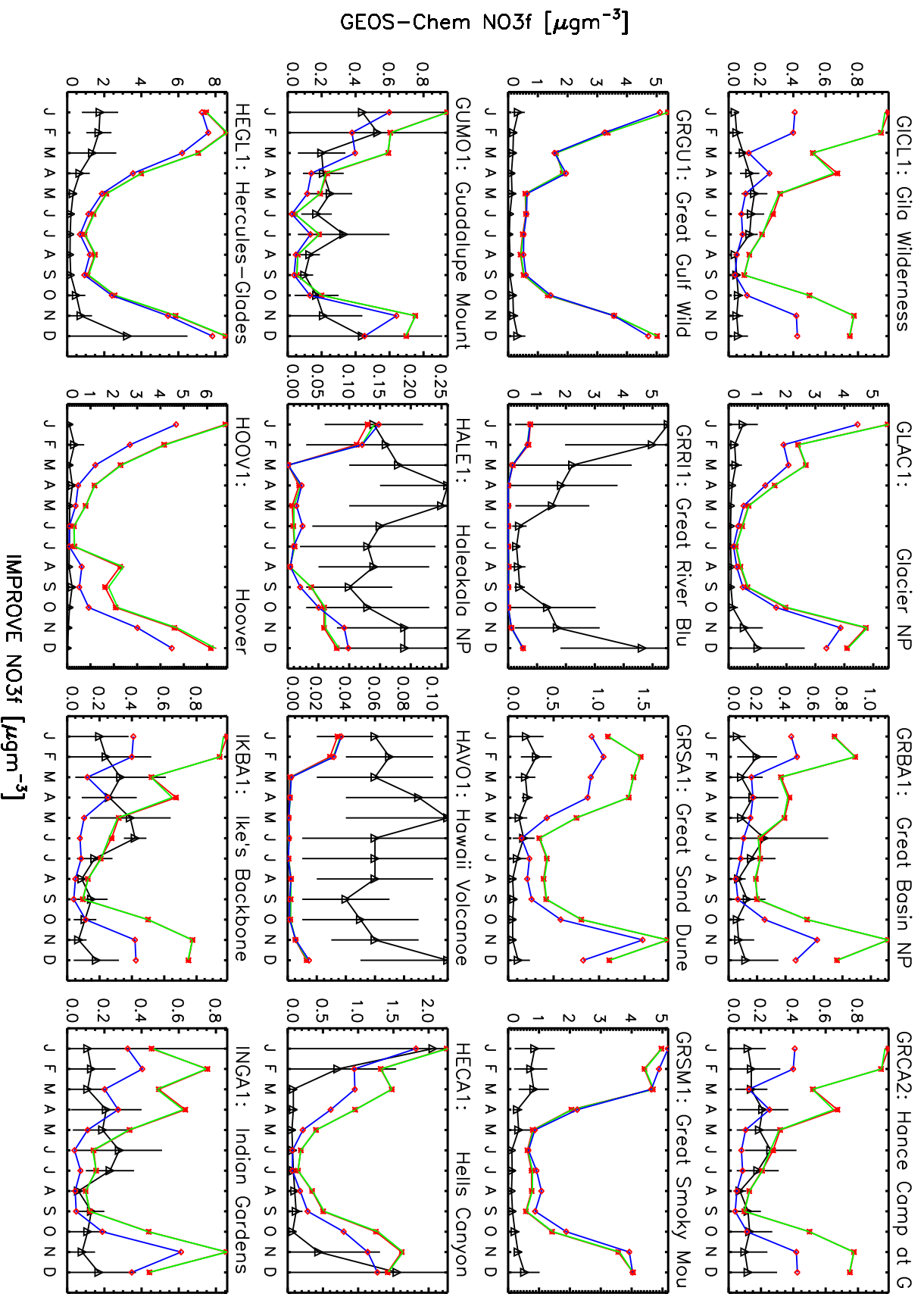
Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)



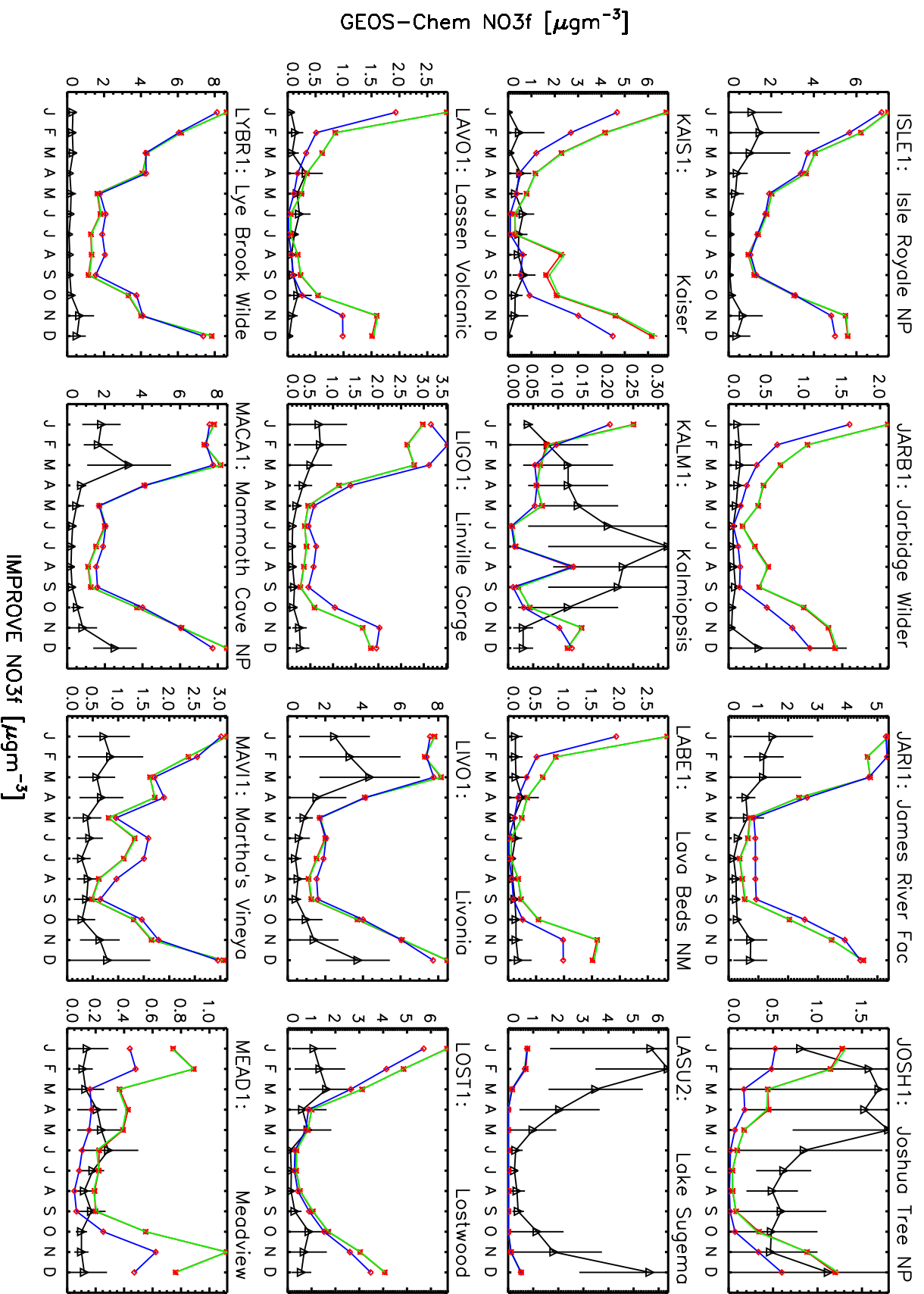
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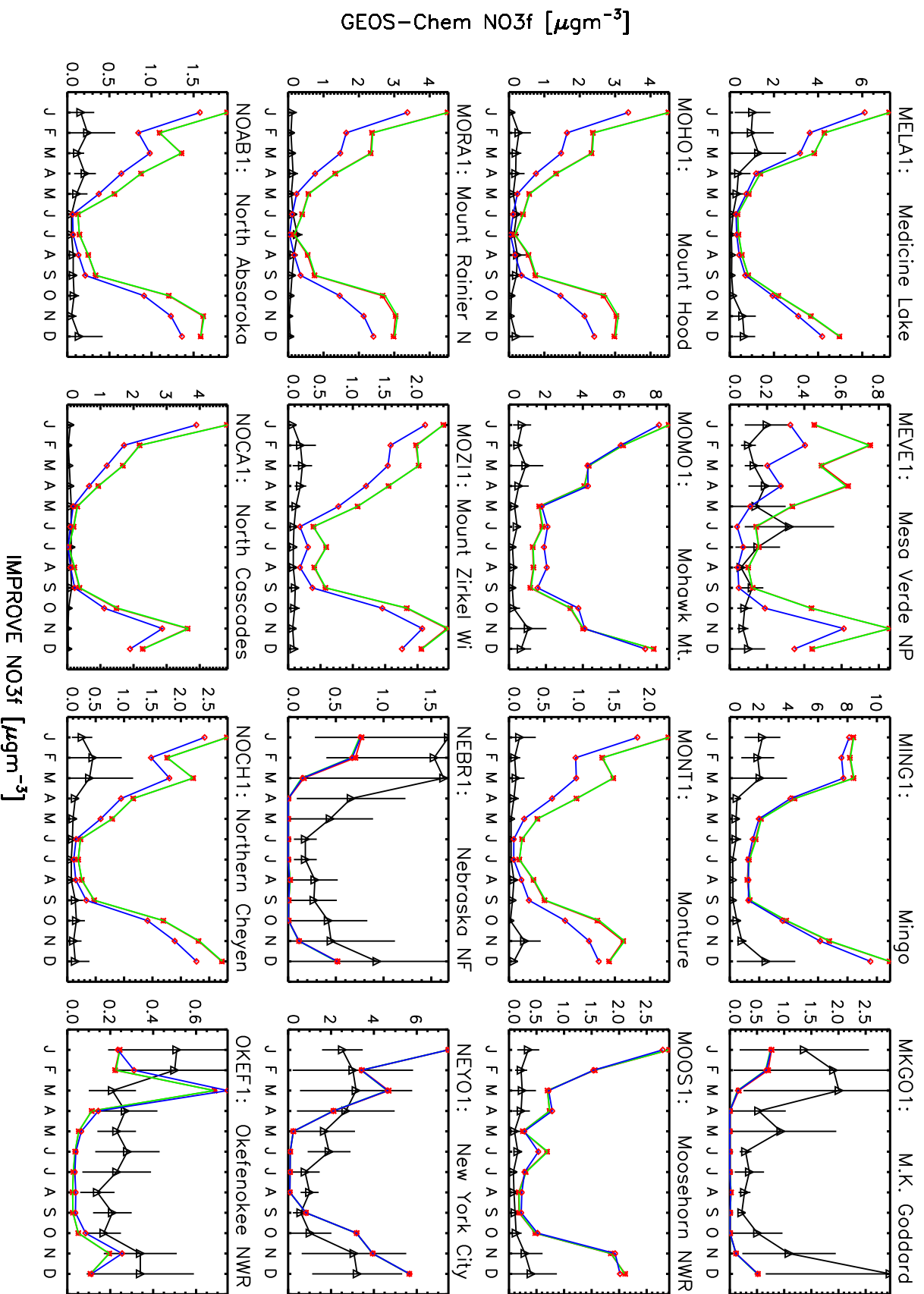


Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)

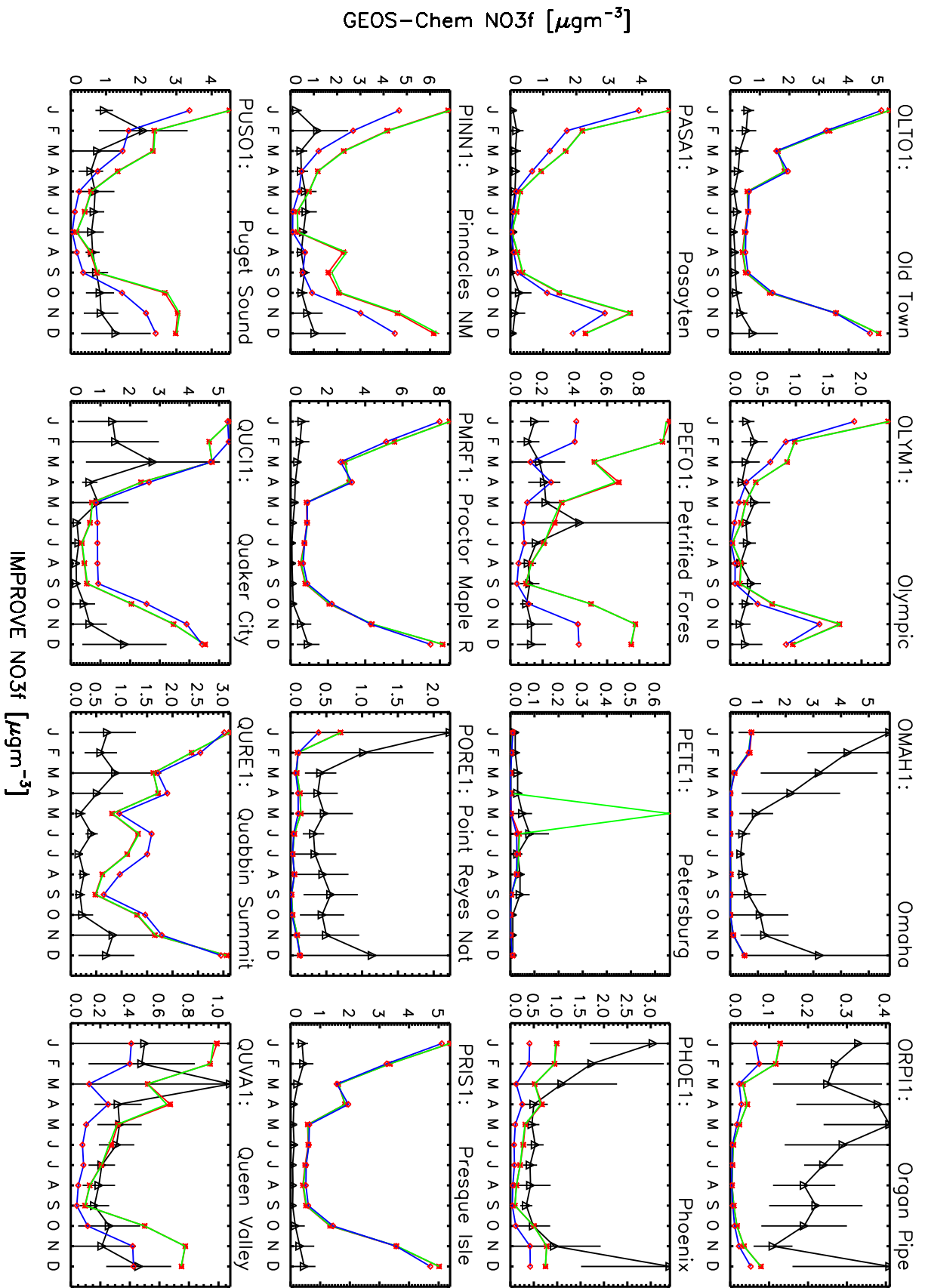




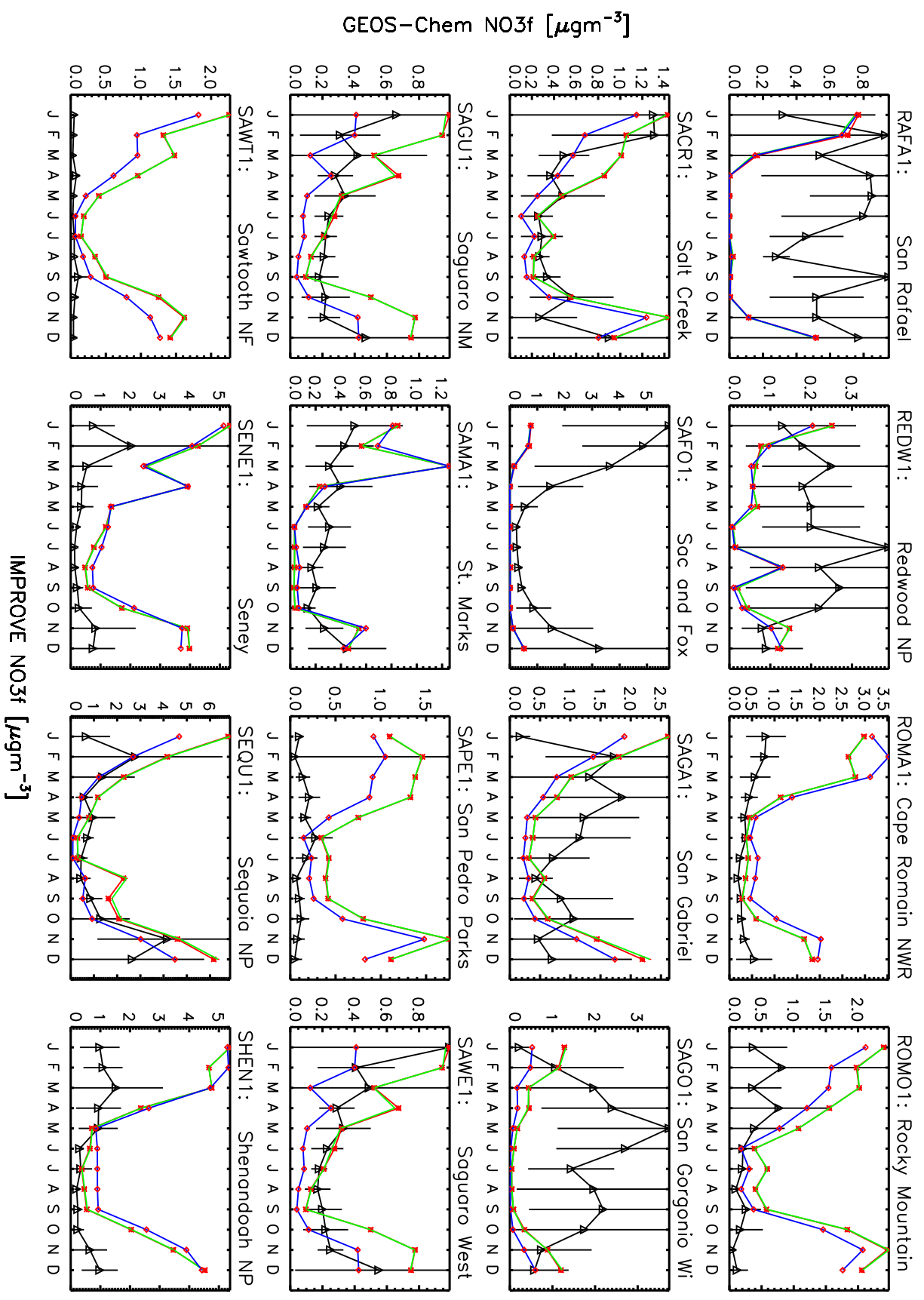
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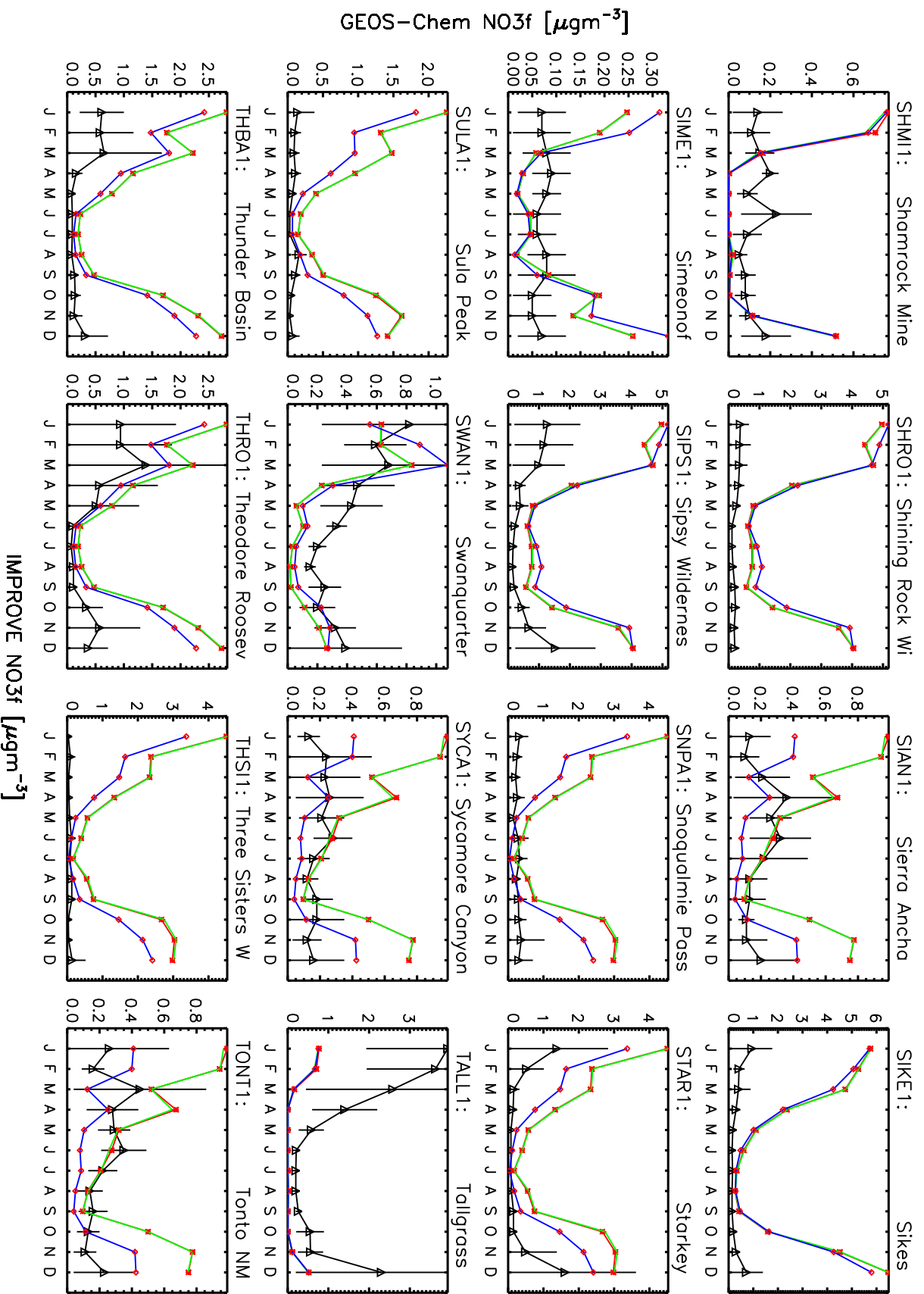
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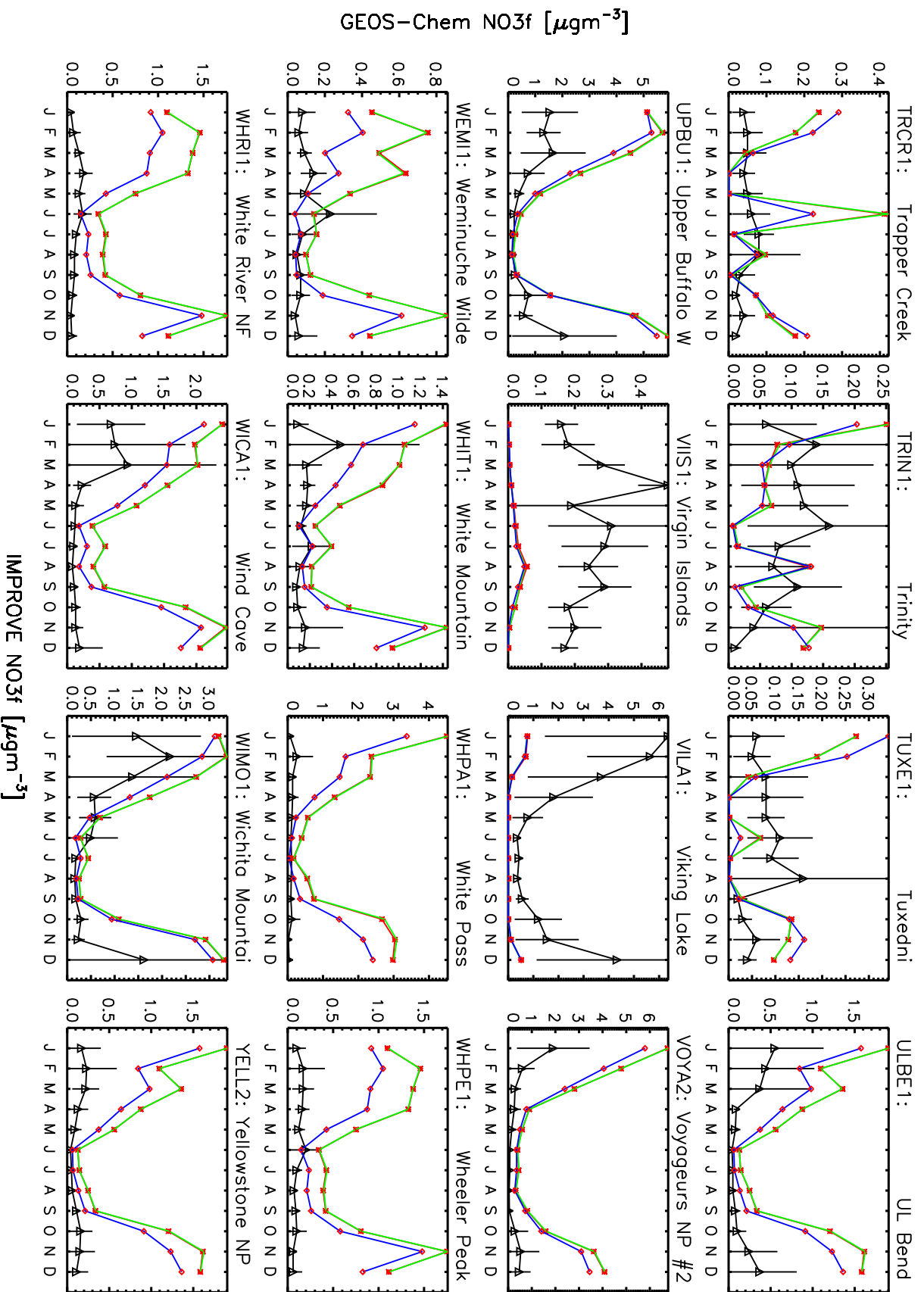
Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)



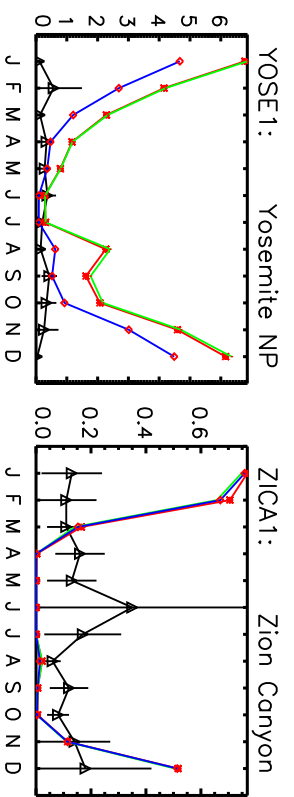
Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)



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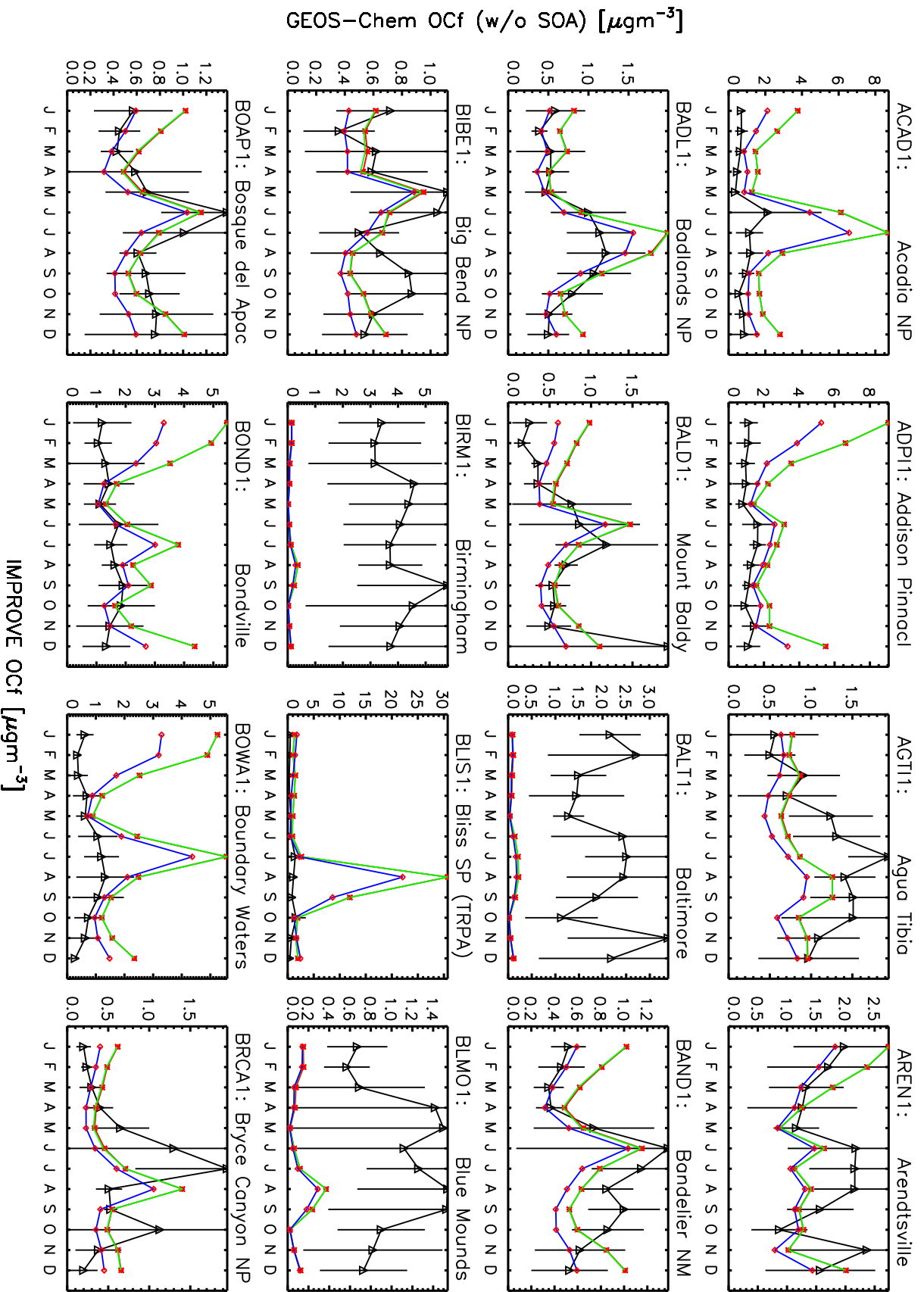
Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)



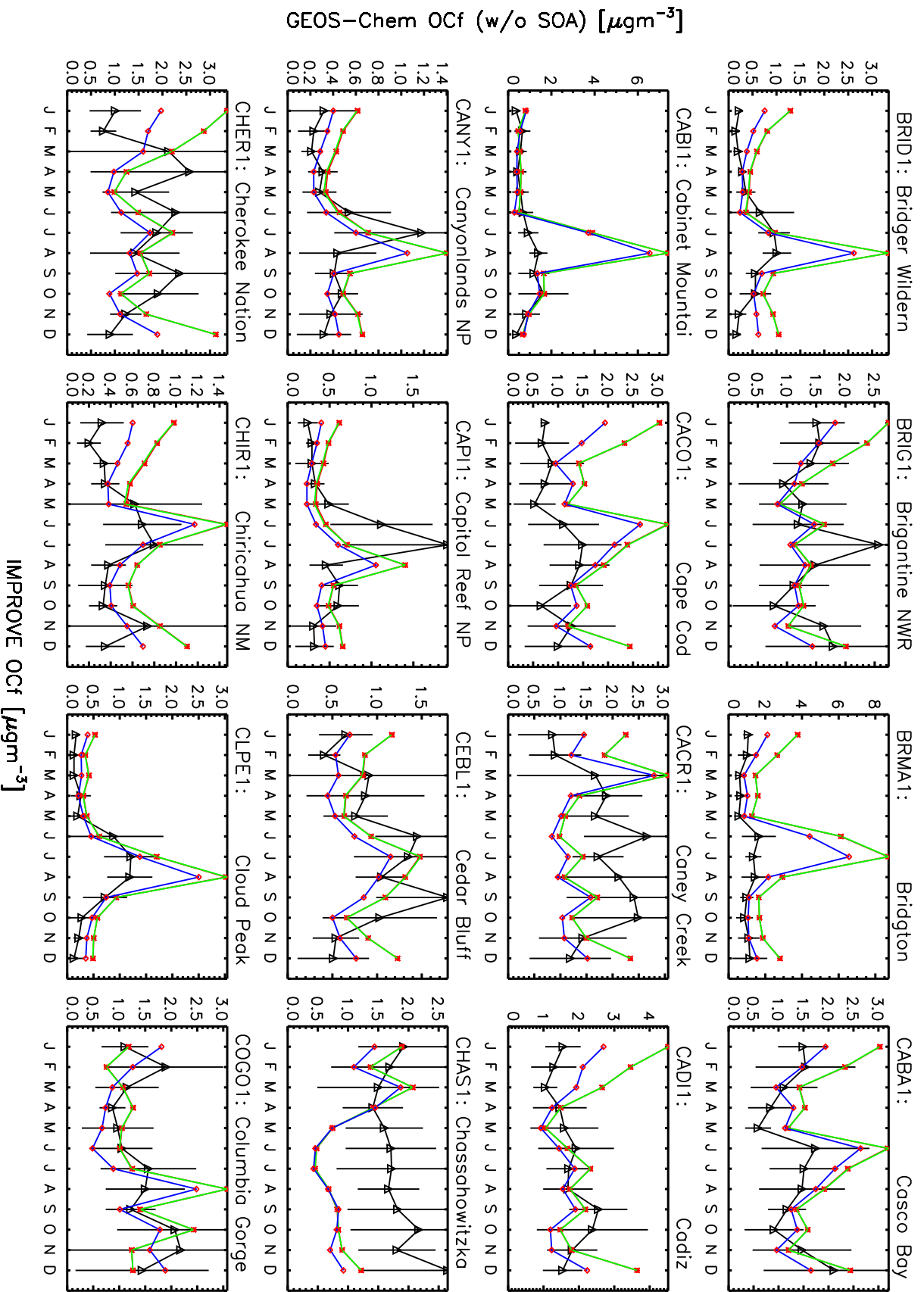
GEOS-Chem NO3f [ $\mu\text{gm}^{-3}$ ]

IMPROVE NO3f [ $\mu\text{gm}^{-3}$ ]

Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)

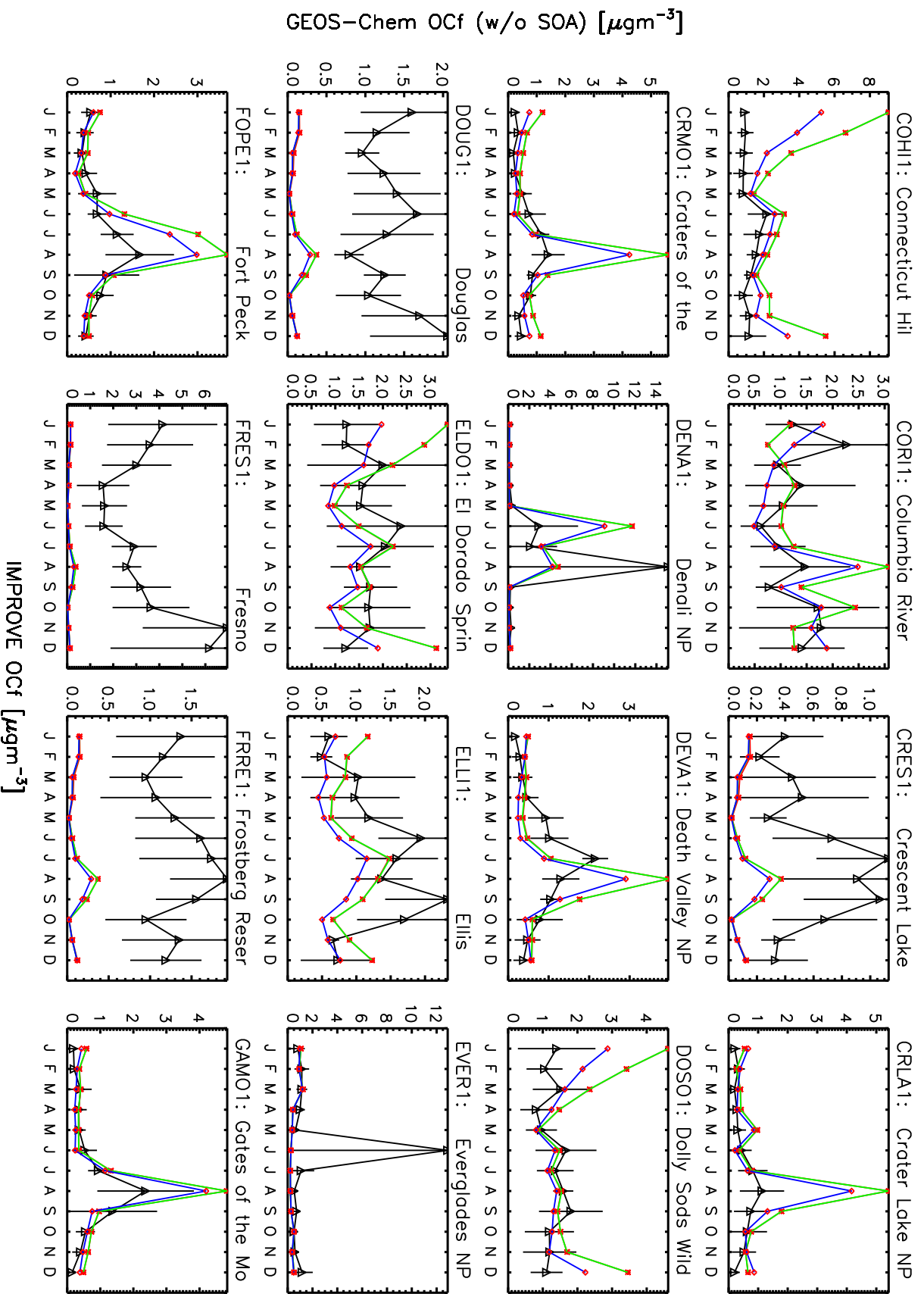


Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)

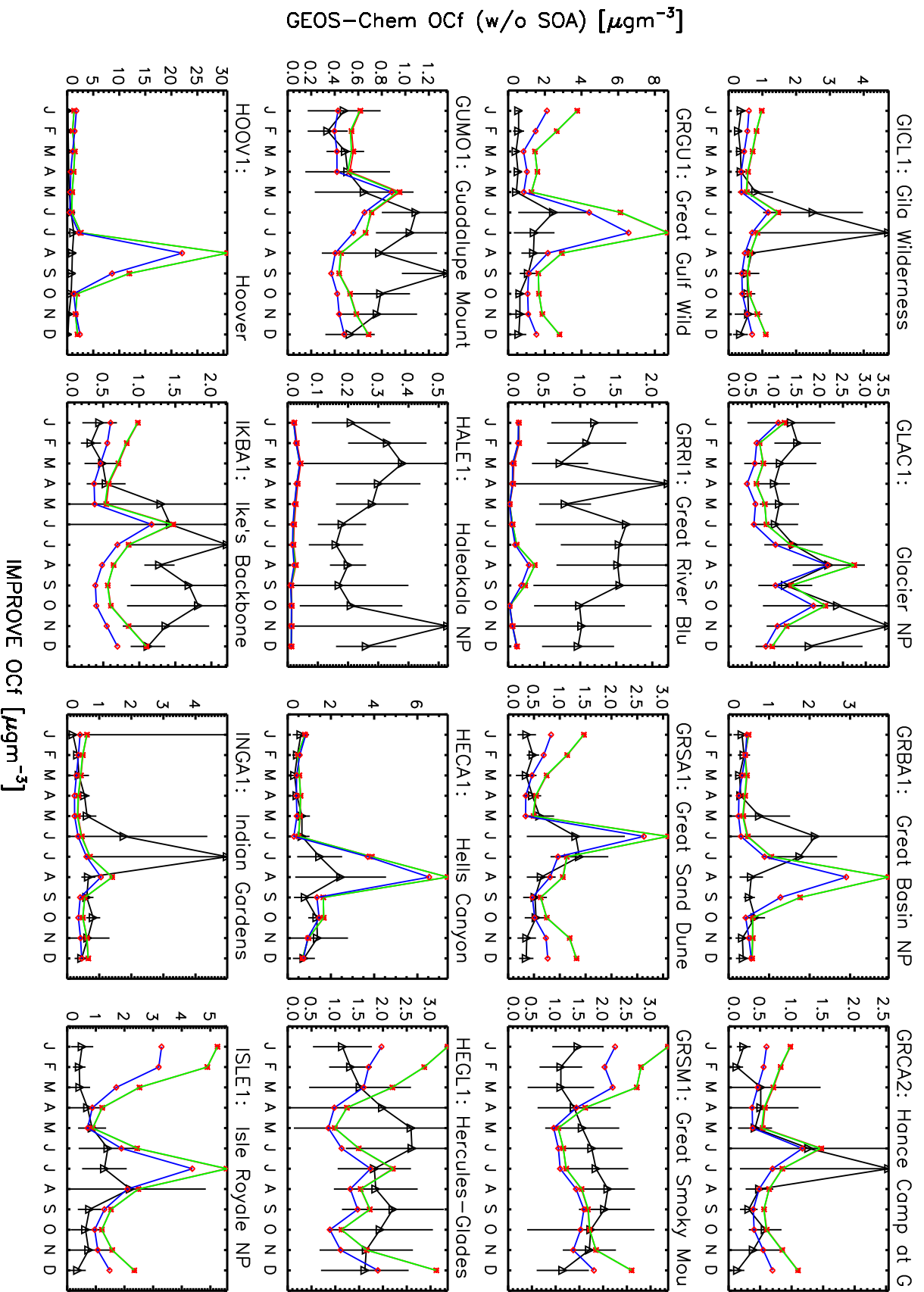




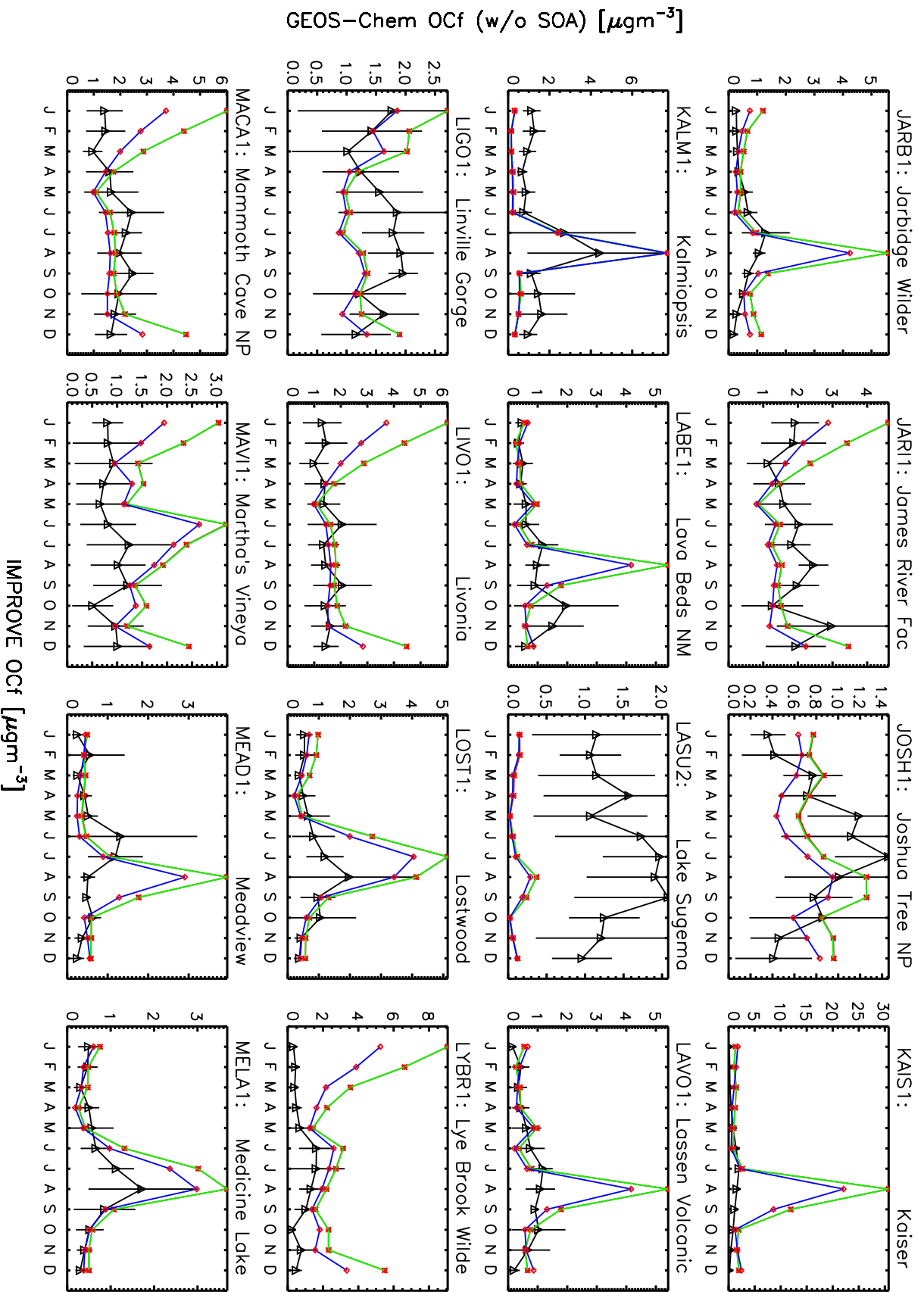
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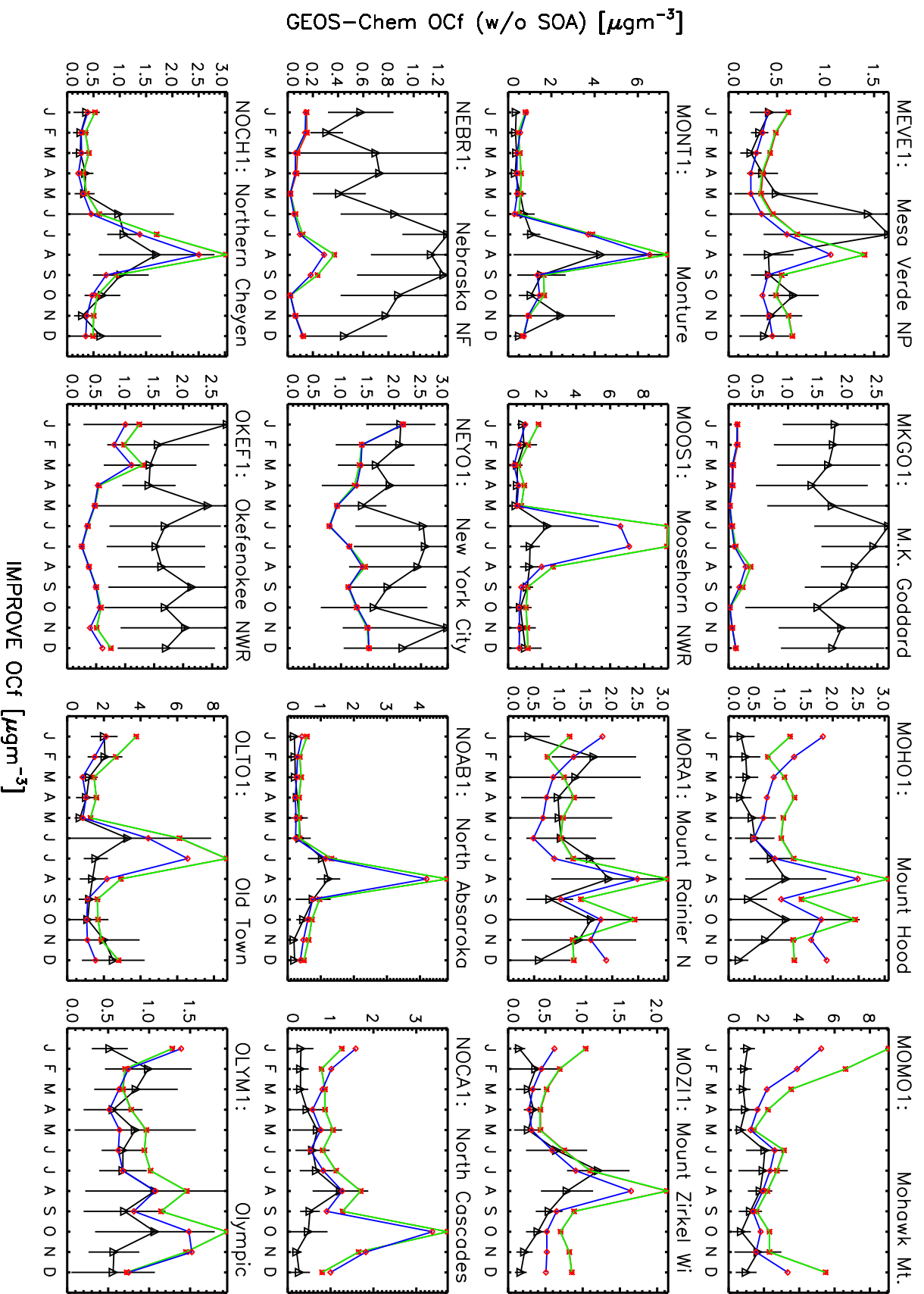
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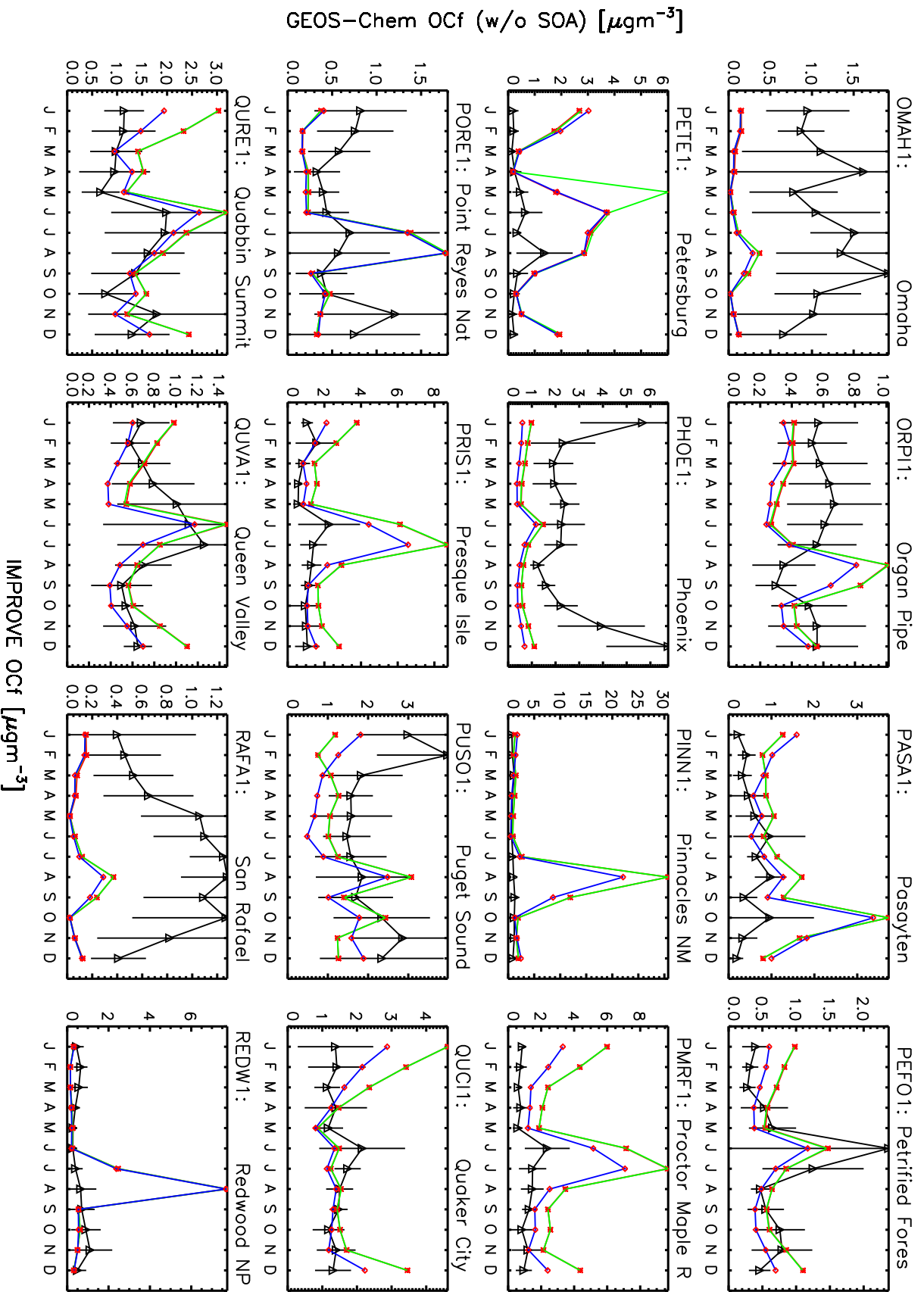
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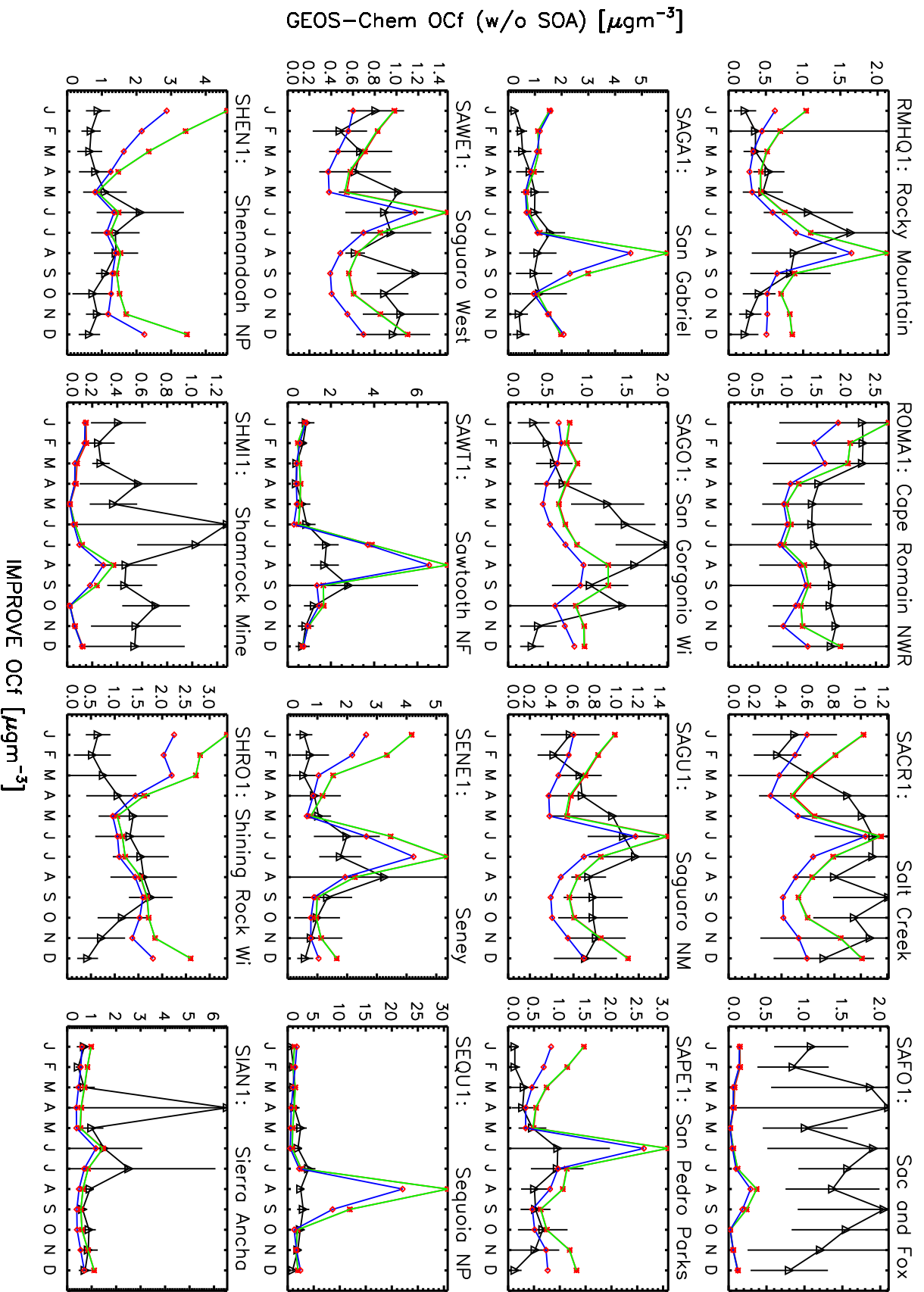
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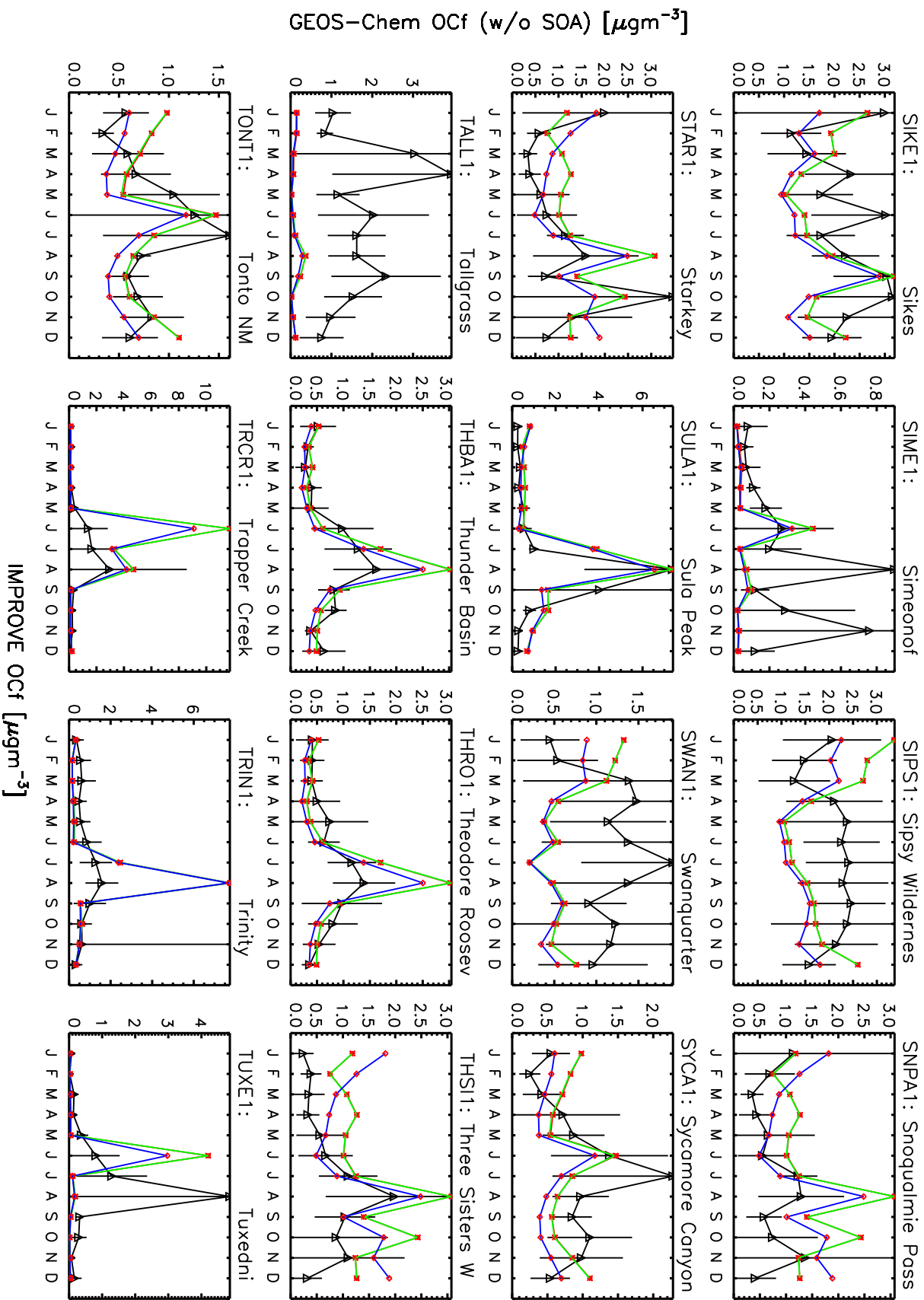
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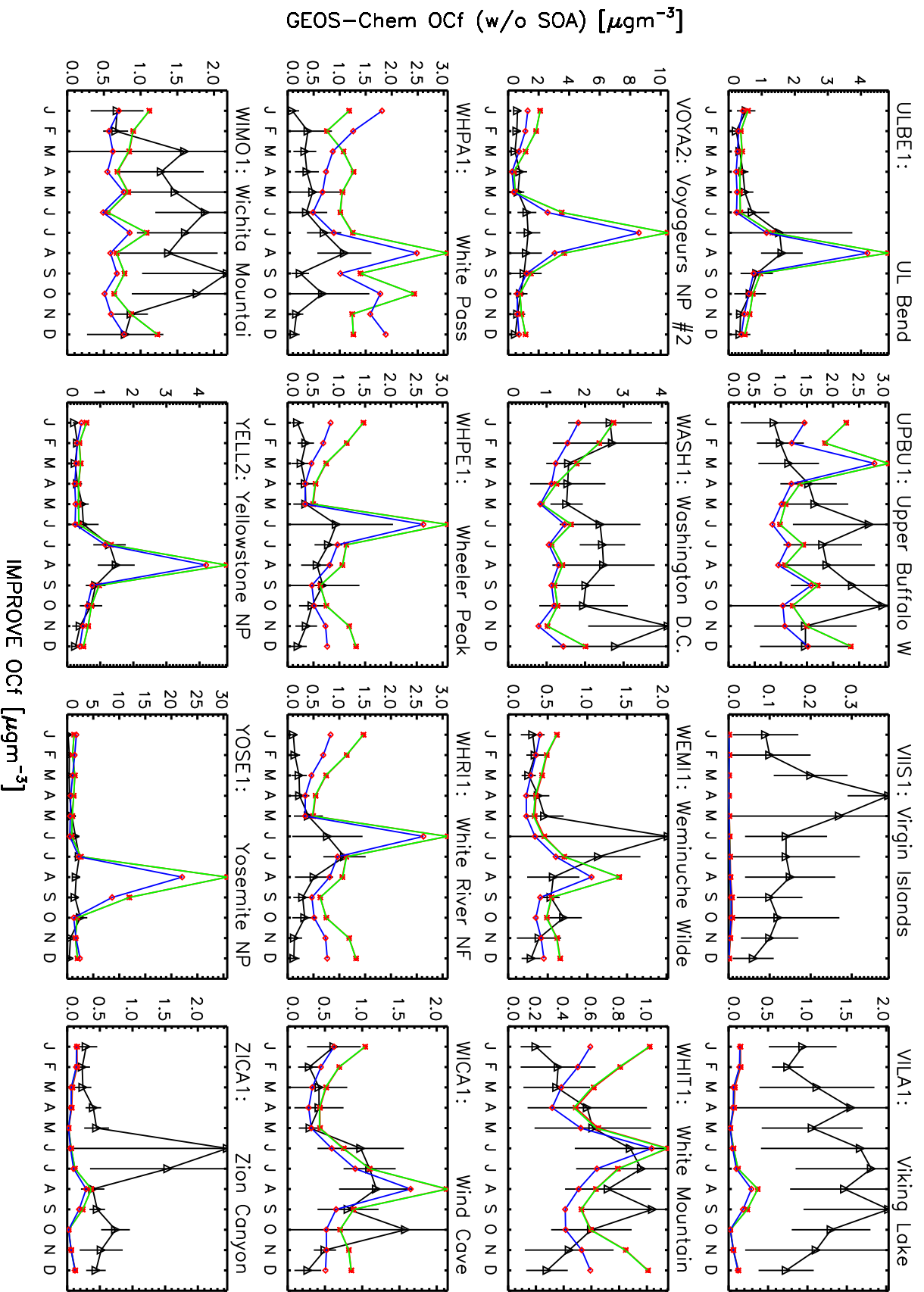
Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)



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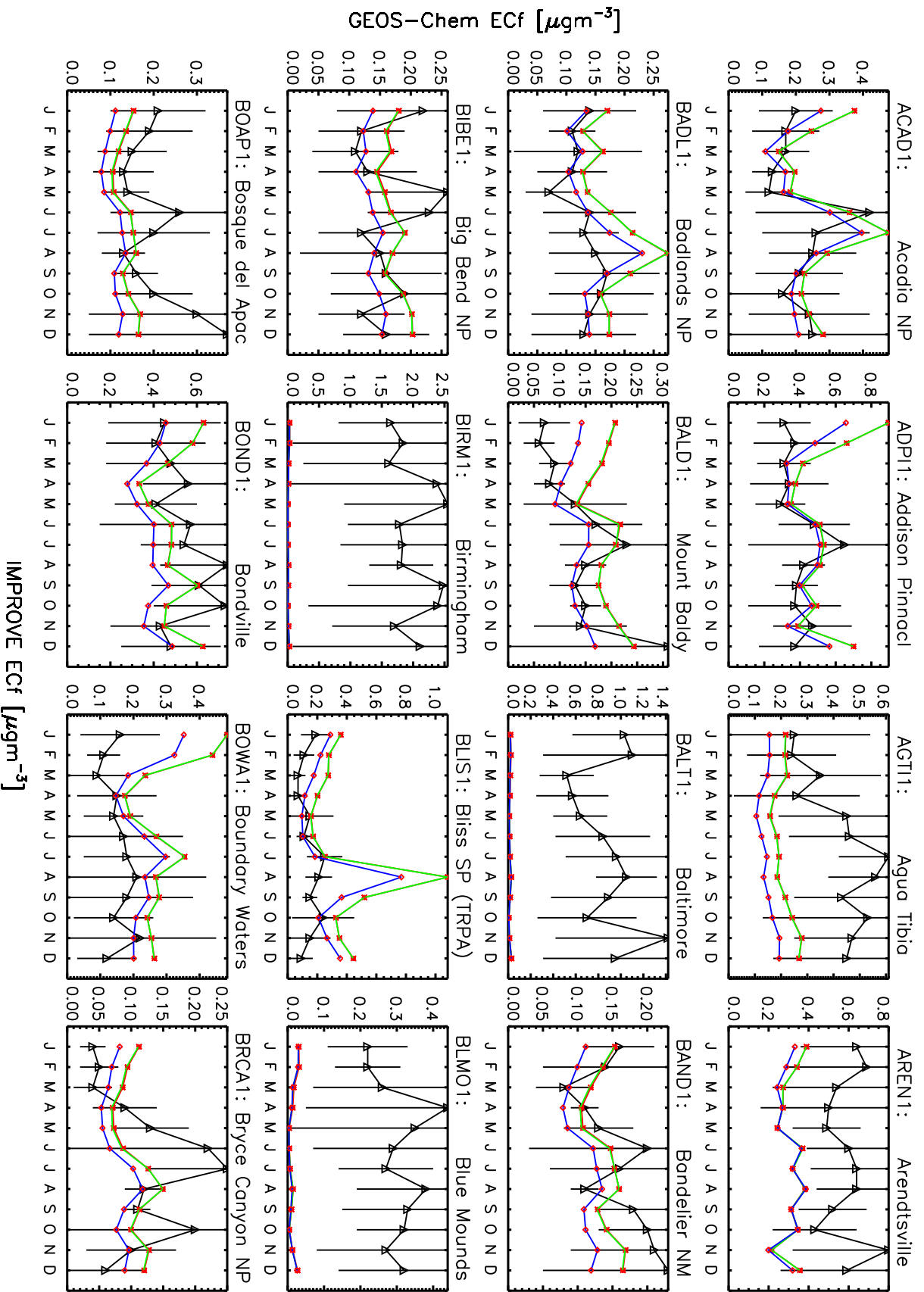


Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)

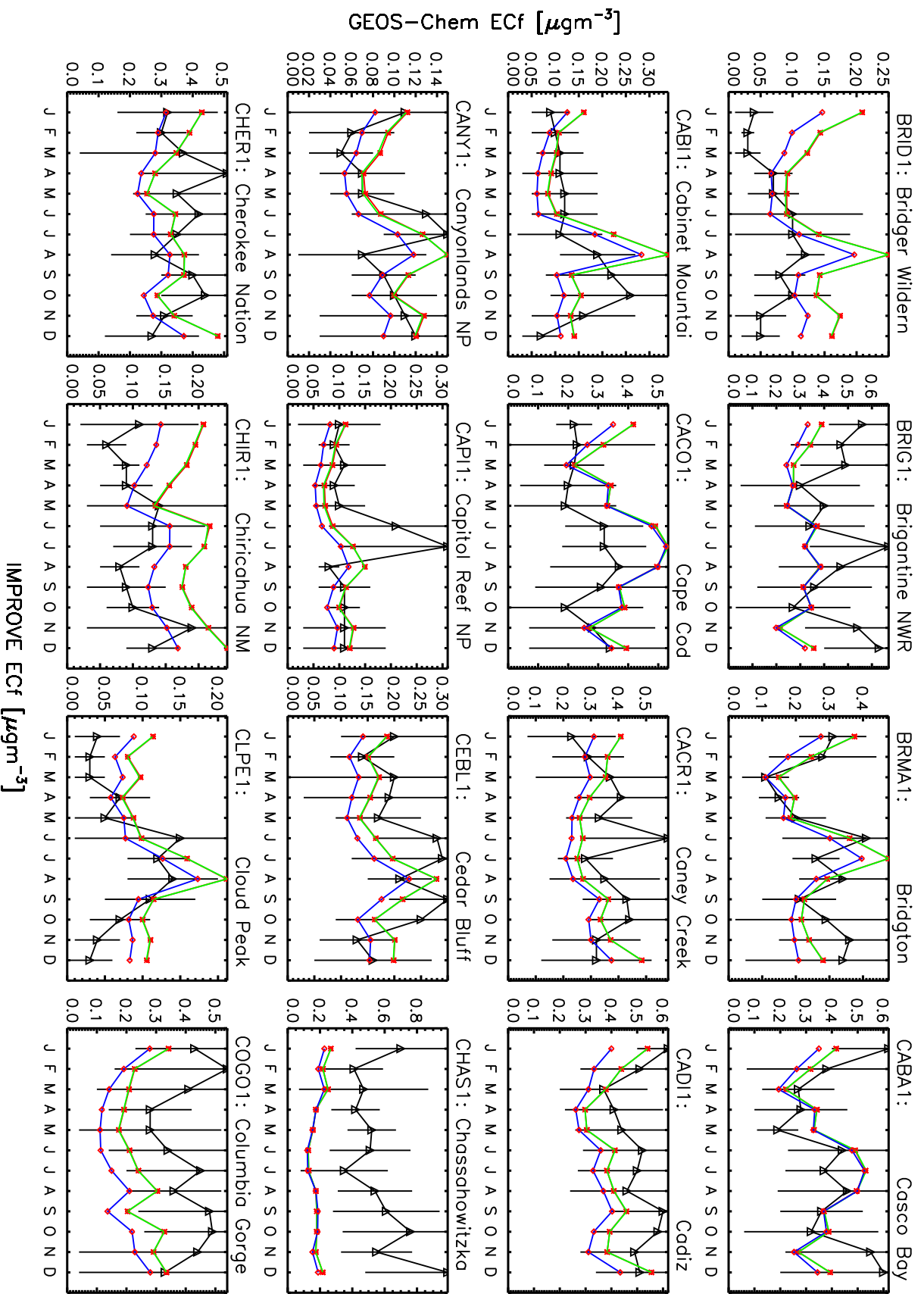




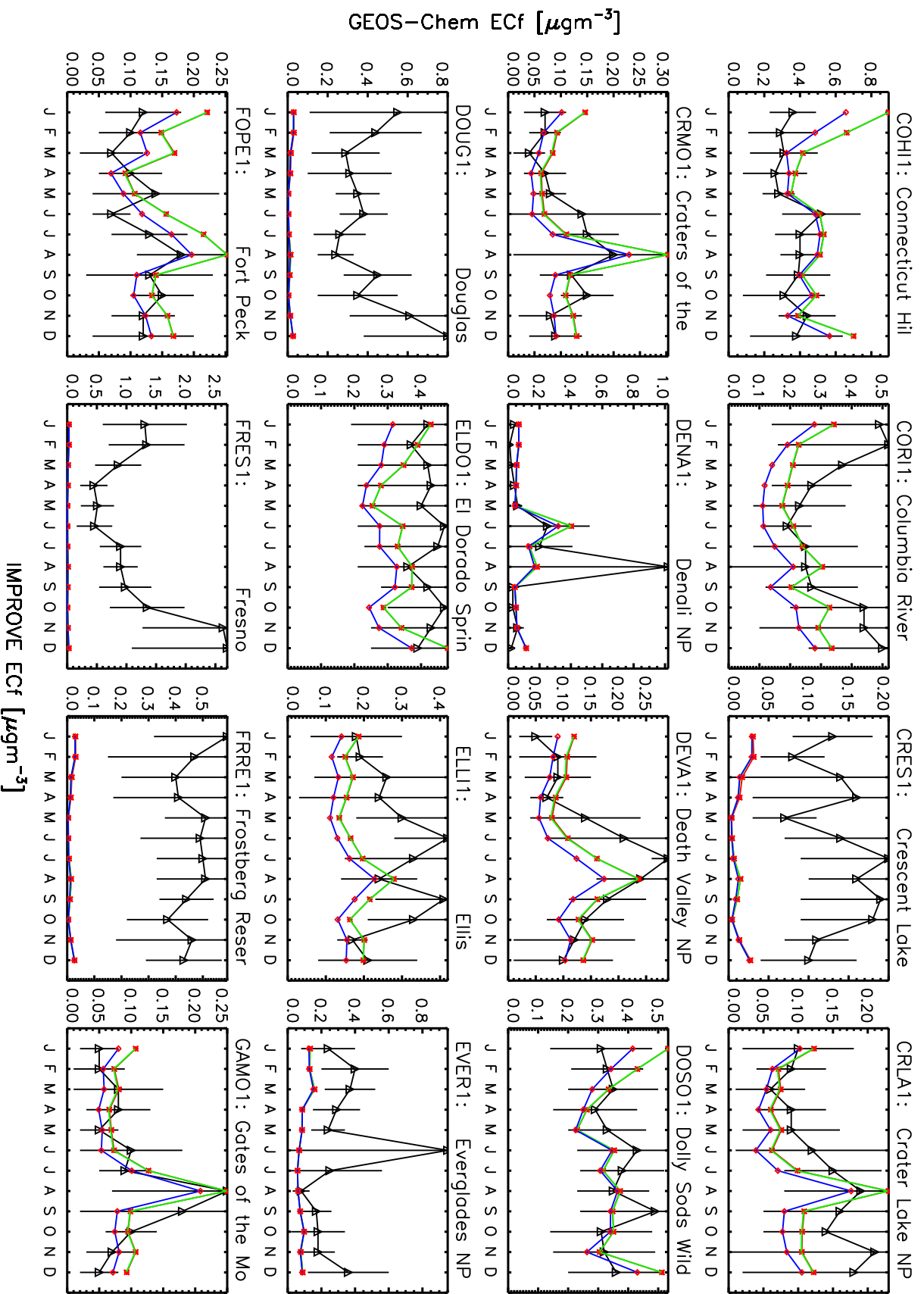
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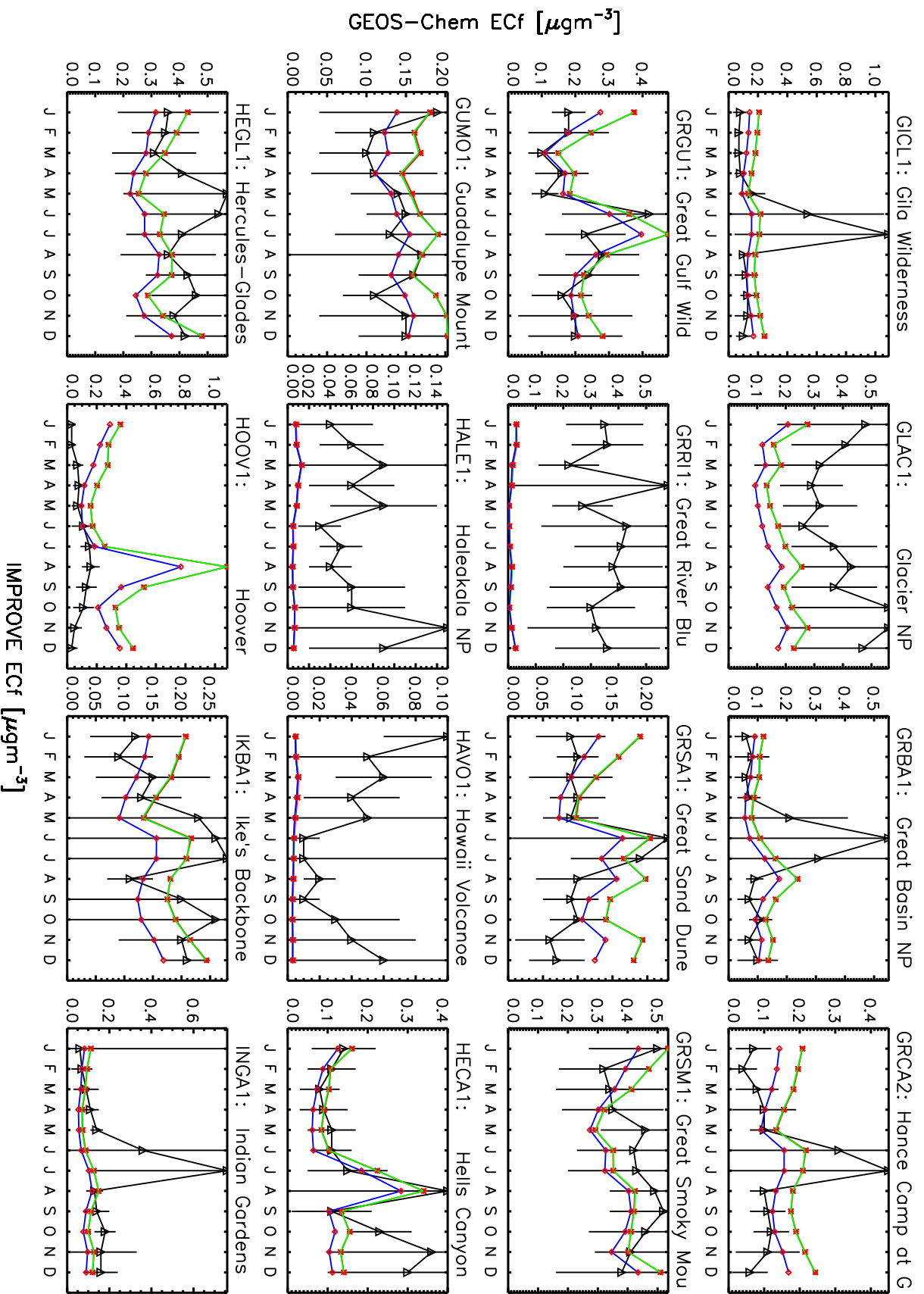
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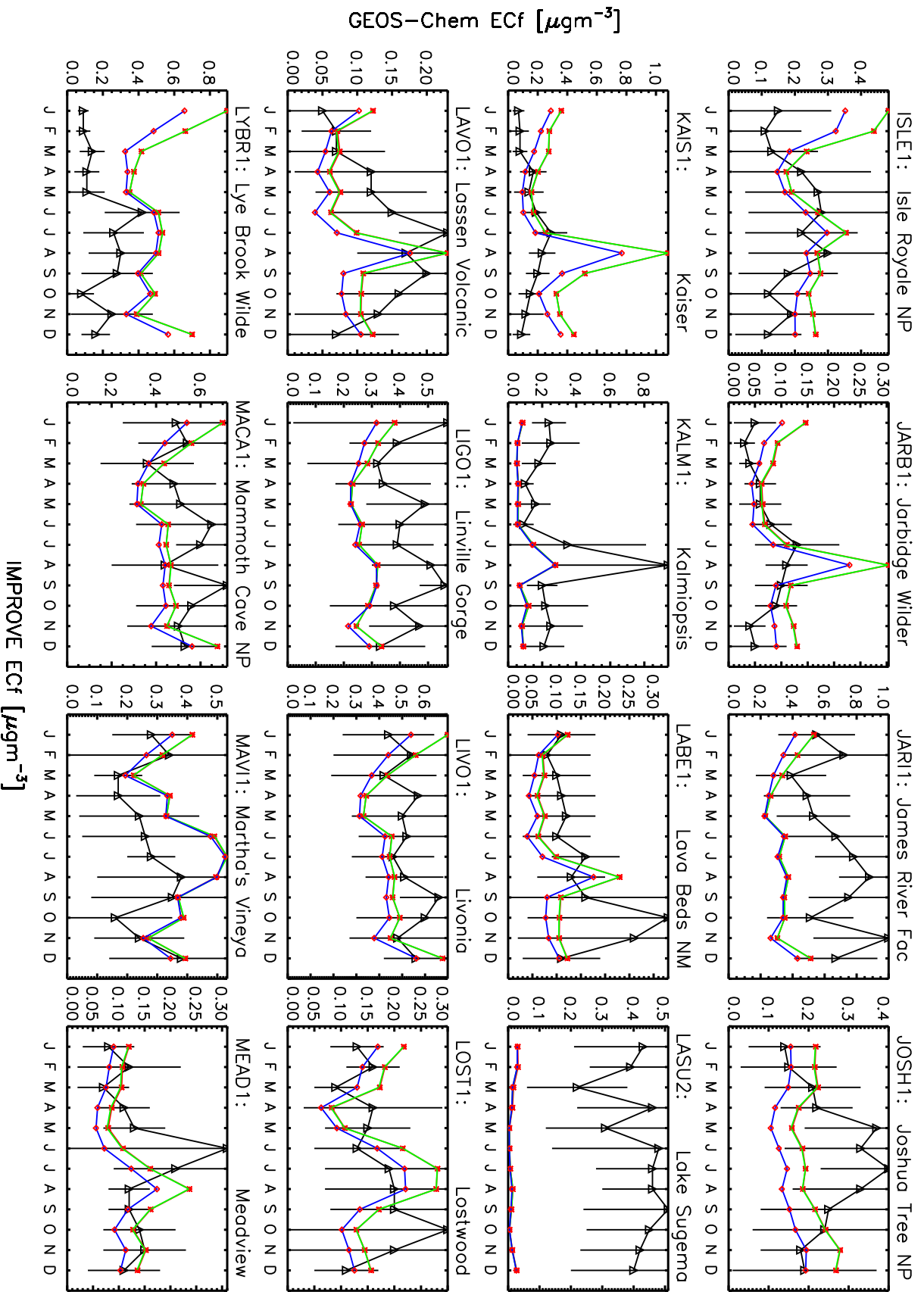
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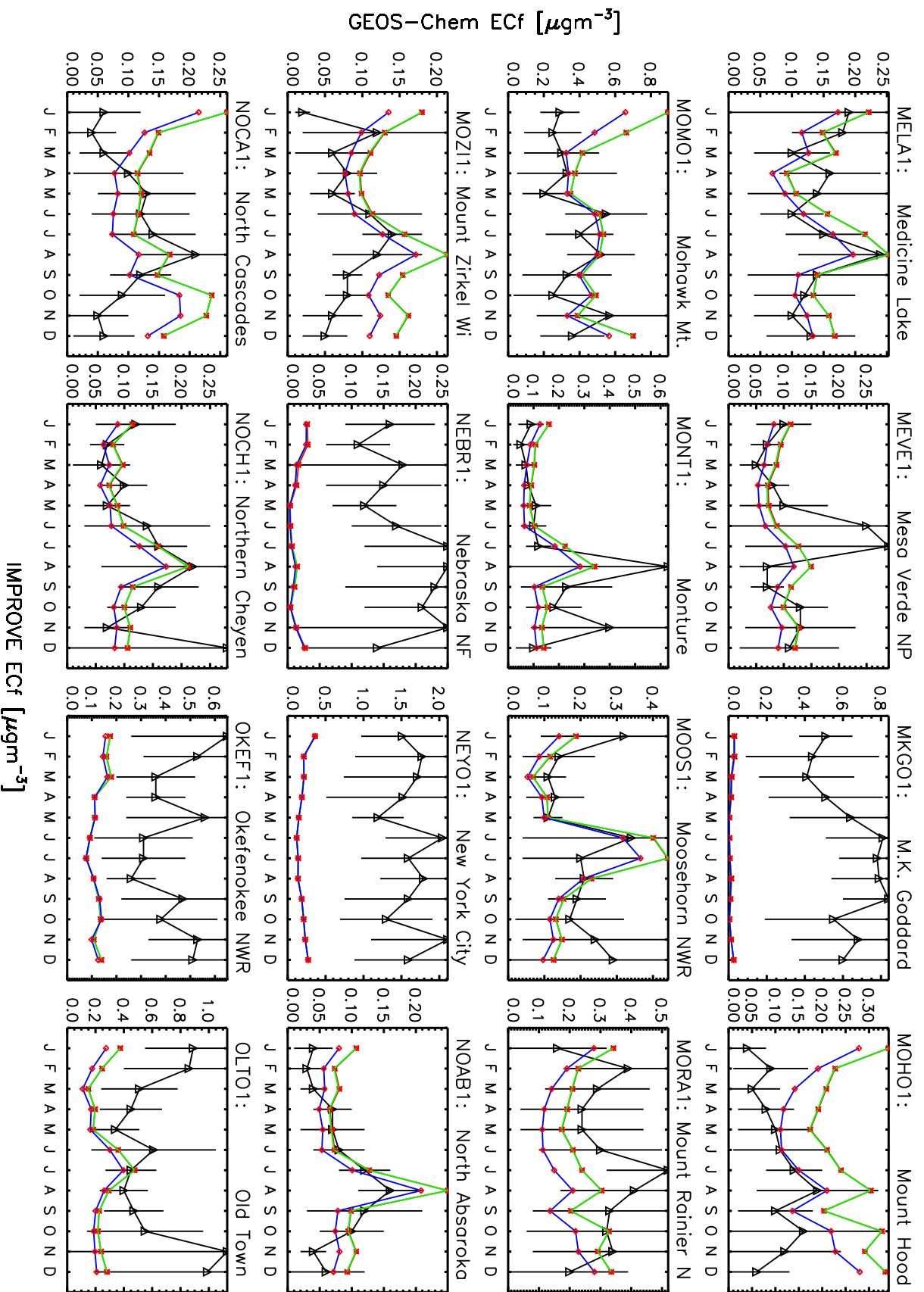
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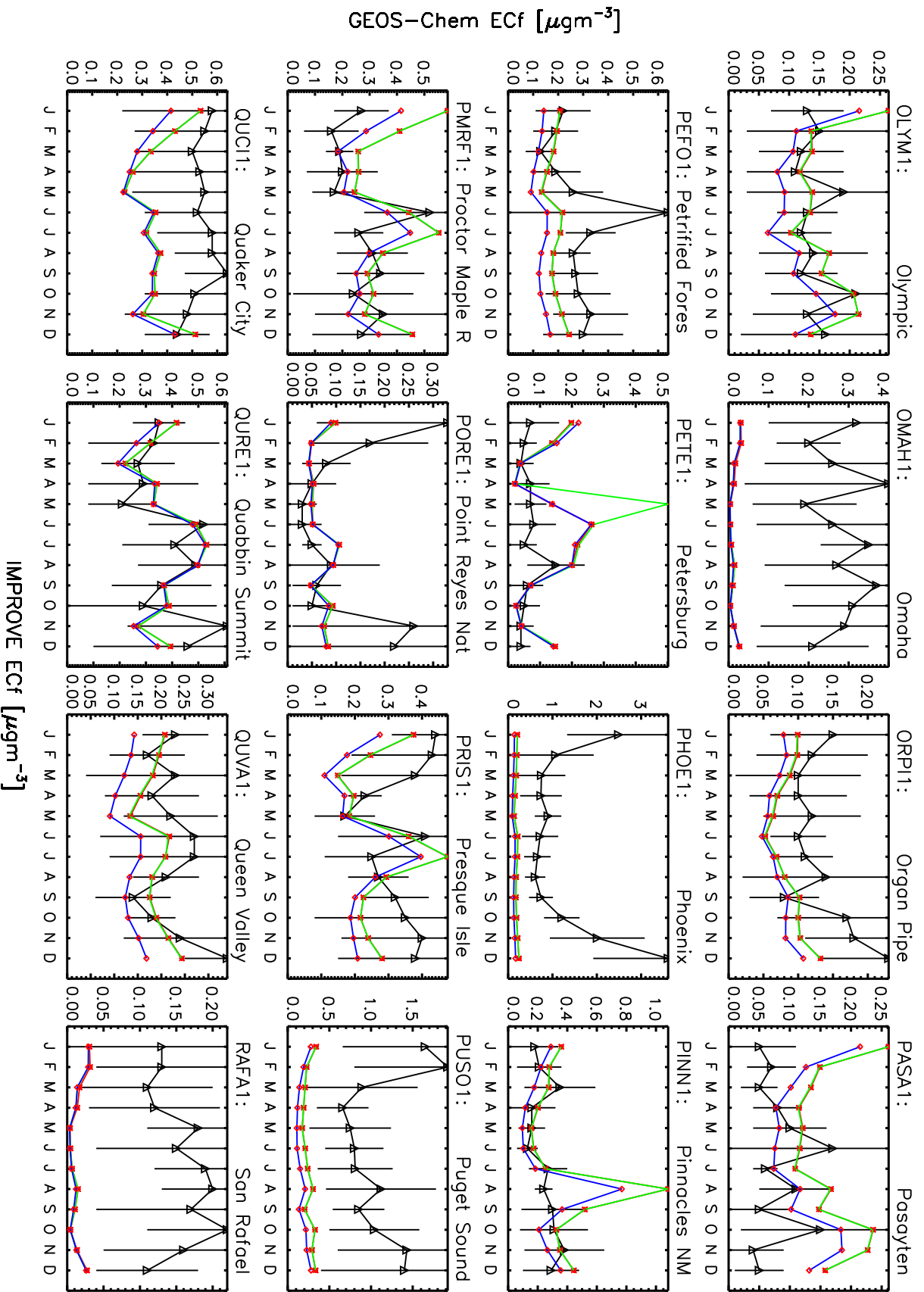
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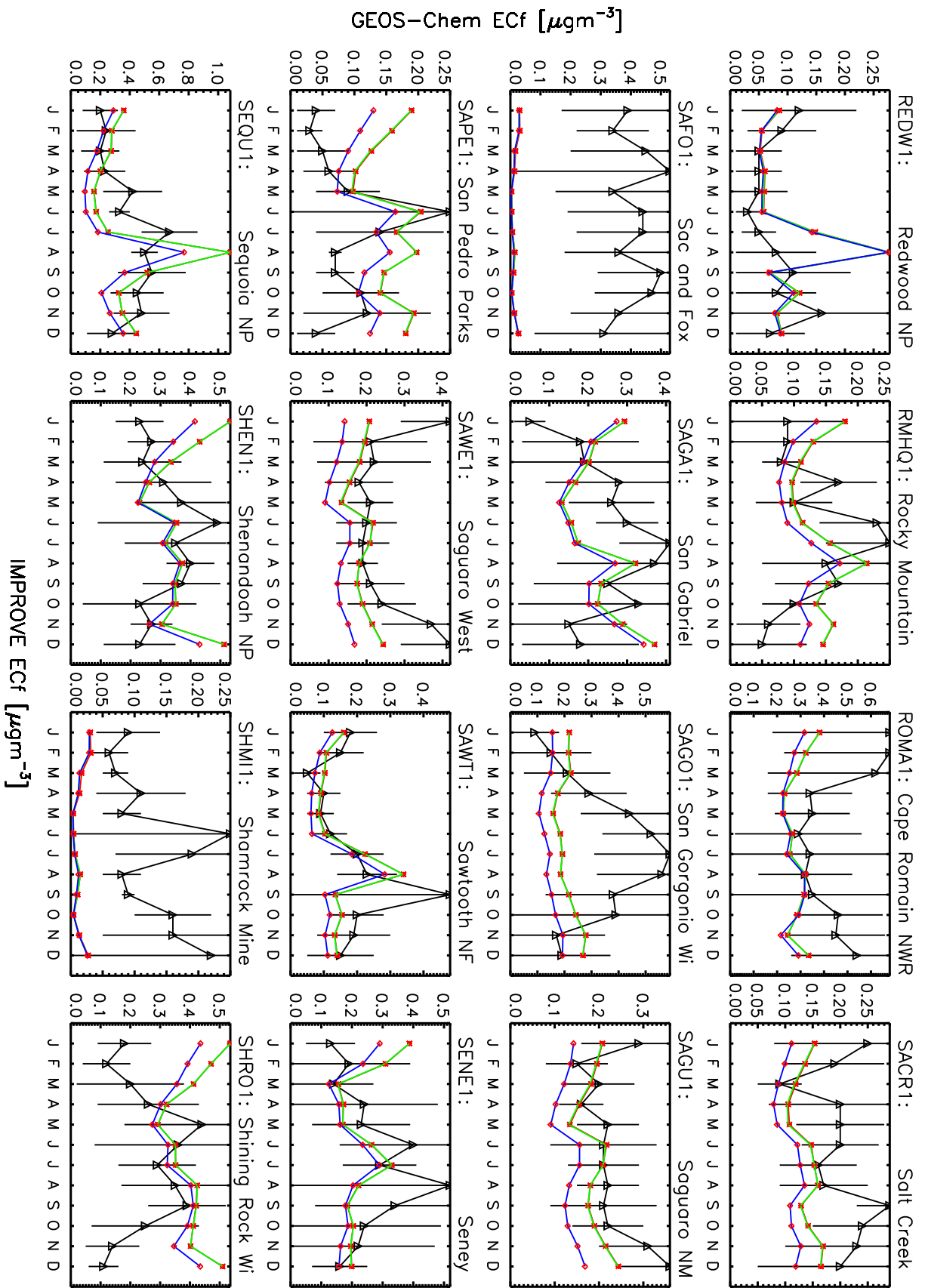
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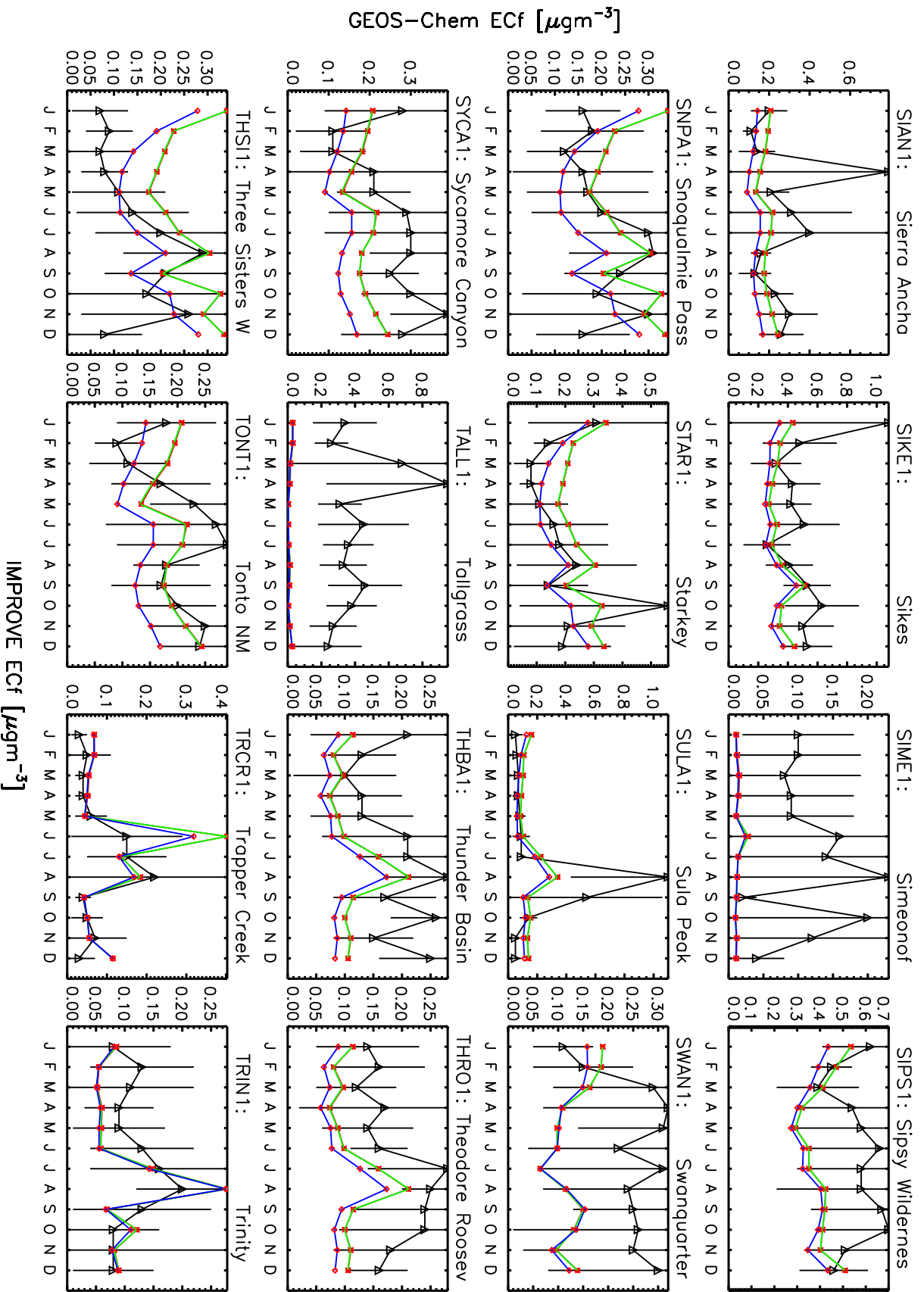


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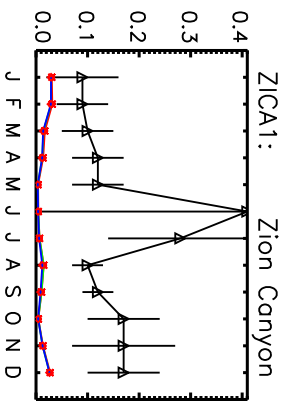


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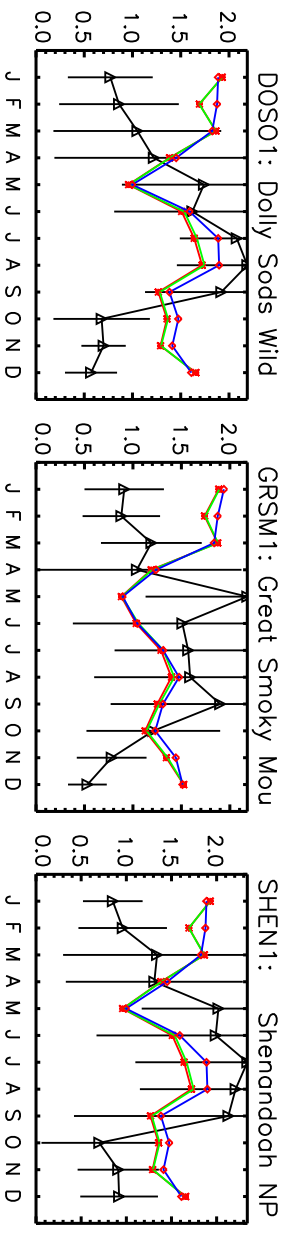
Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)



GEOS-Chem ECf [μgm⁻³]

IMPROVE ECf [μgm⁻³]

Red: v10-01-public-Run0 (2013); Green: v11-01b-Run0 (2013); Blue: v11-01d-Run1 (2013)



GEOS-Chem NH4f [ $\mu\text{gm}^{-3}$ ]

IMPROVE NH4f [ $\mu\text{gm}^{-3}$ ]