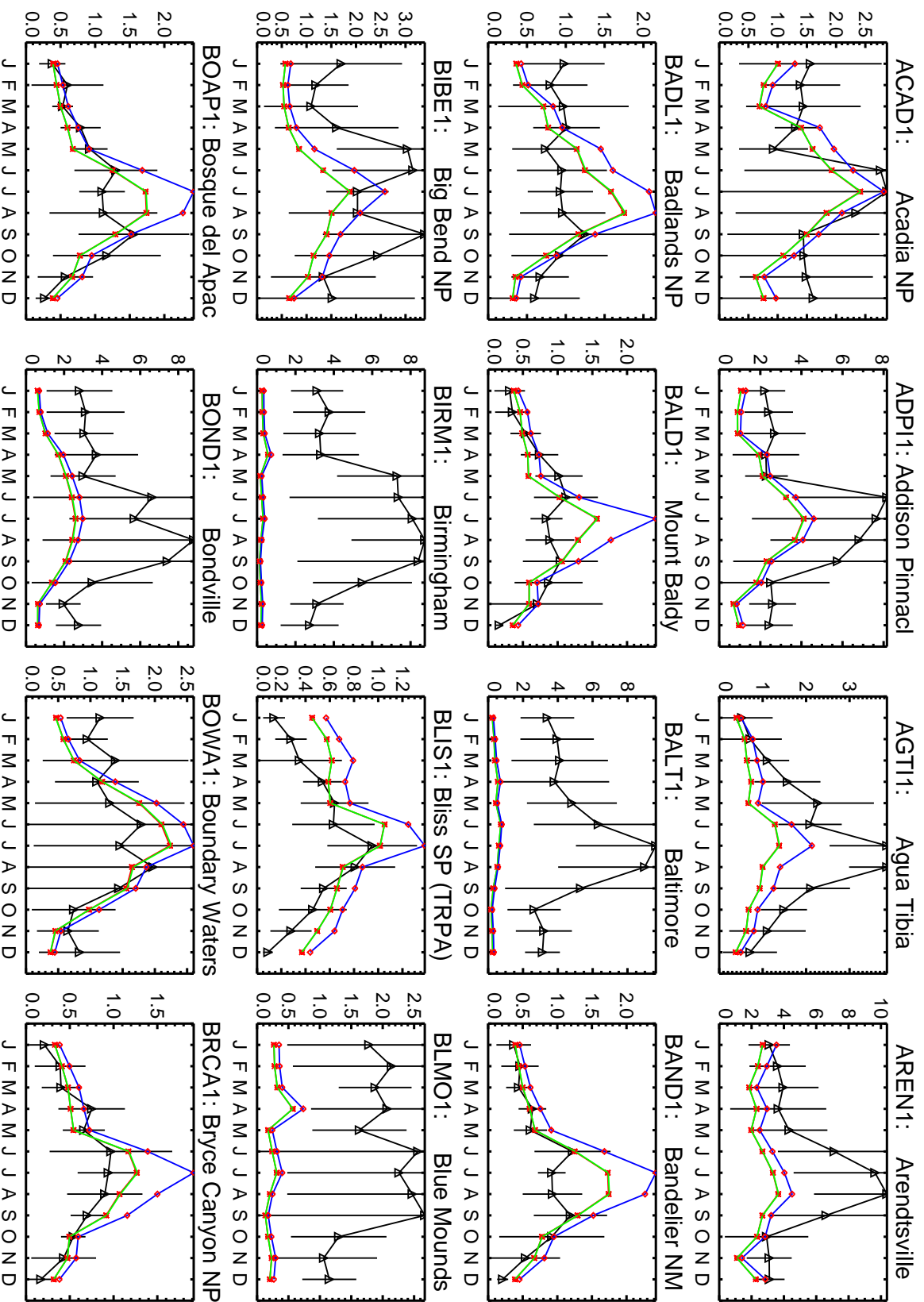


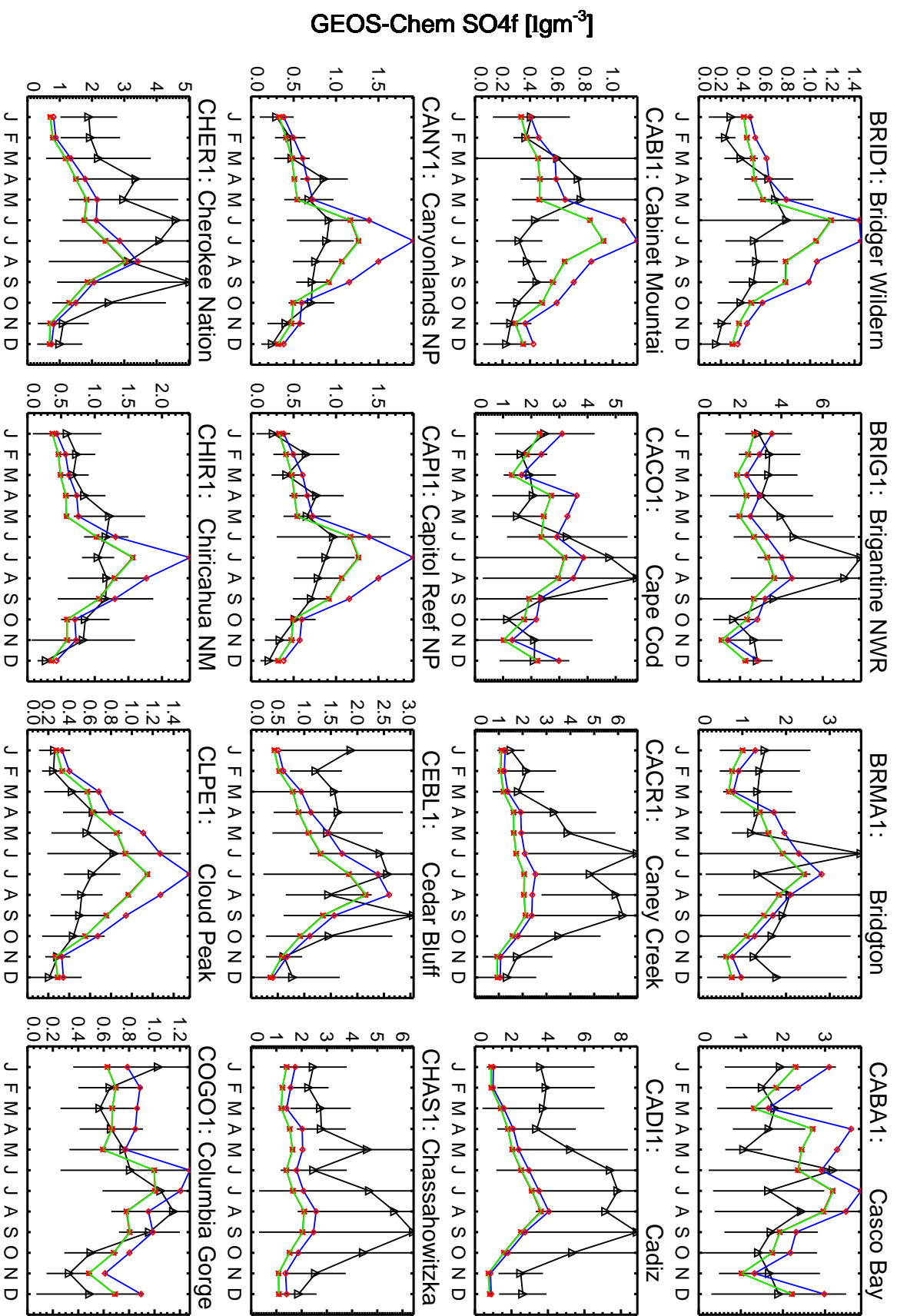
Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)

GEOS-Chem SO₄f [lgm⁻³]

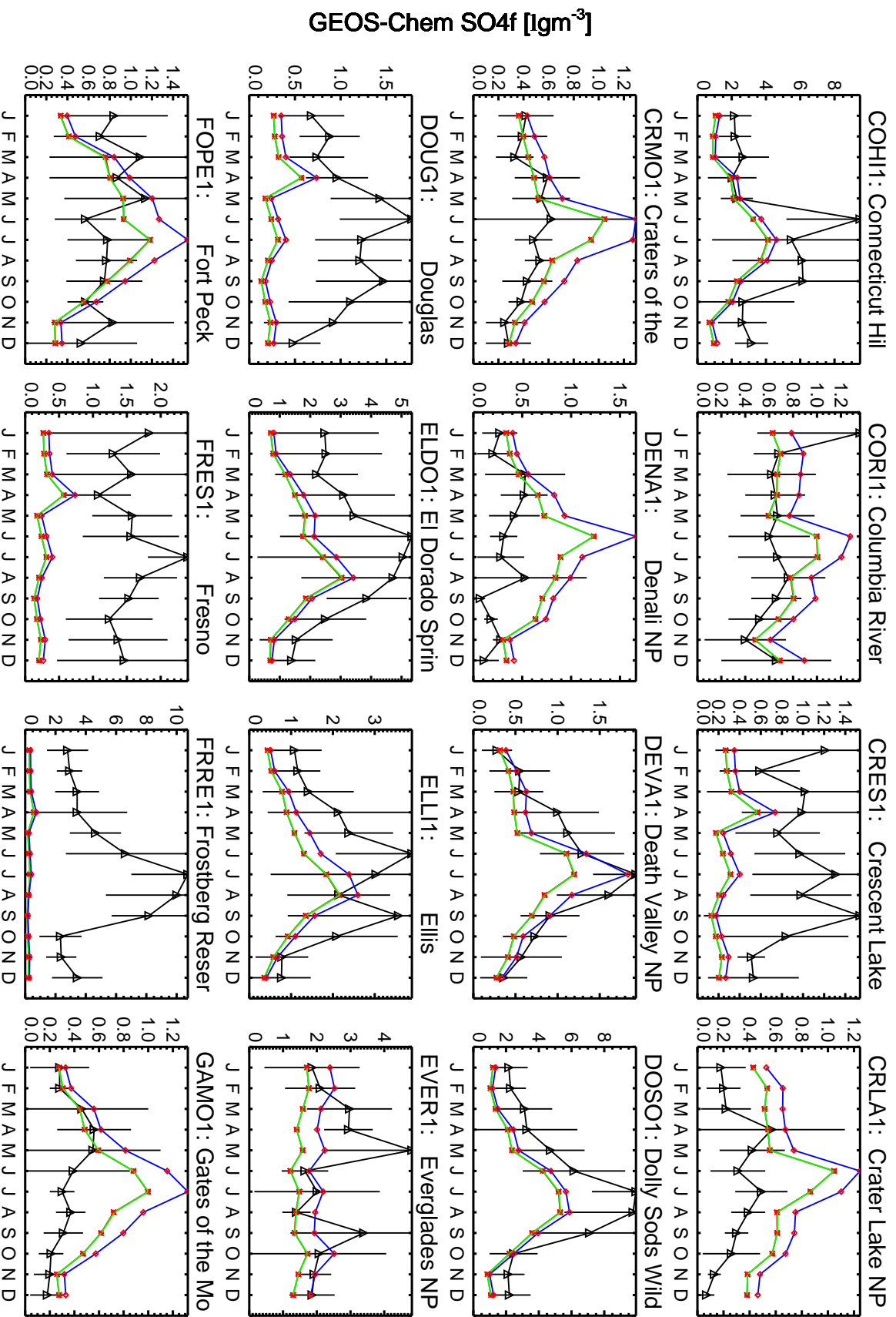


IMPROVE SO₄f [lgm⁻³]

Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)

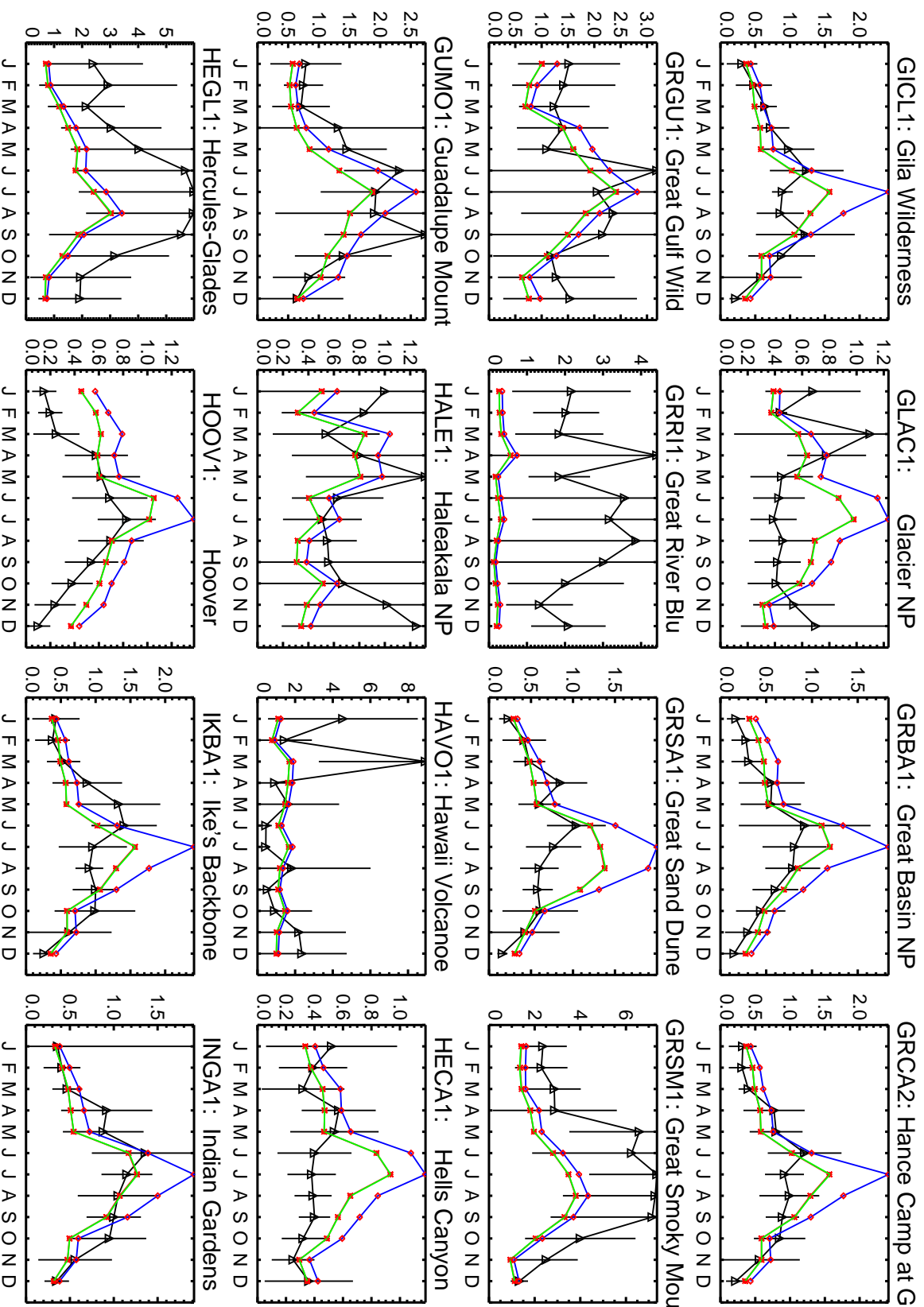


Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



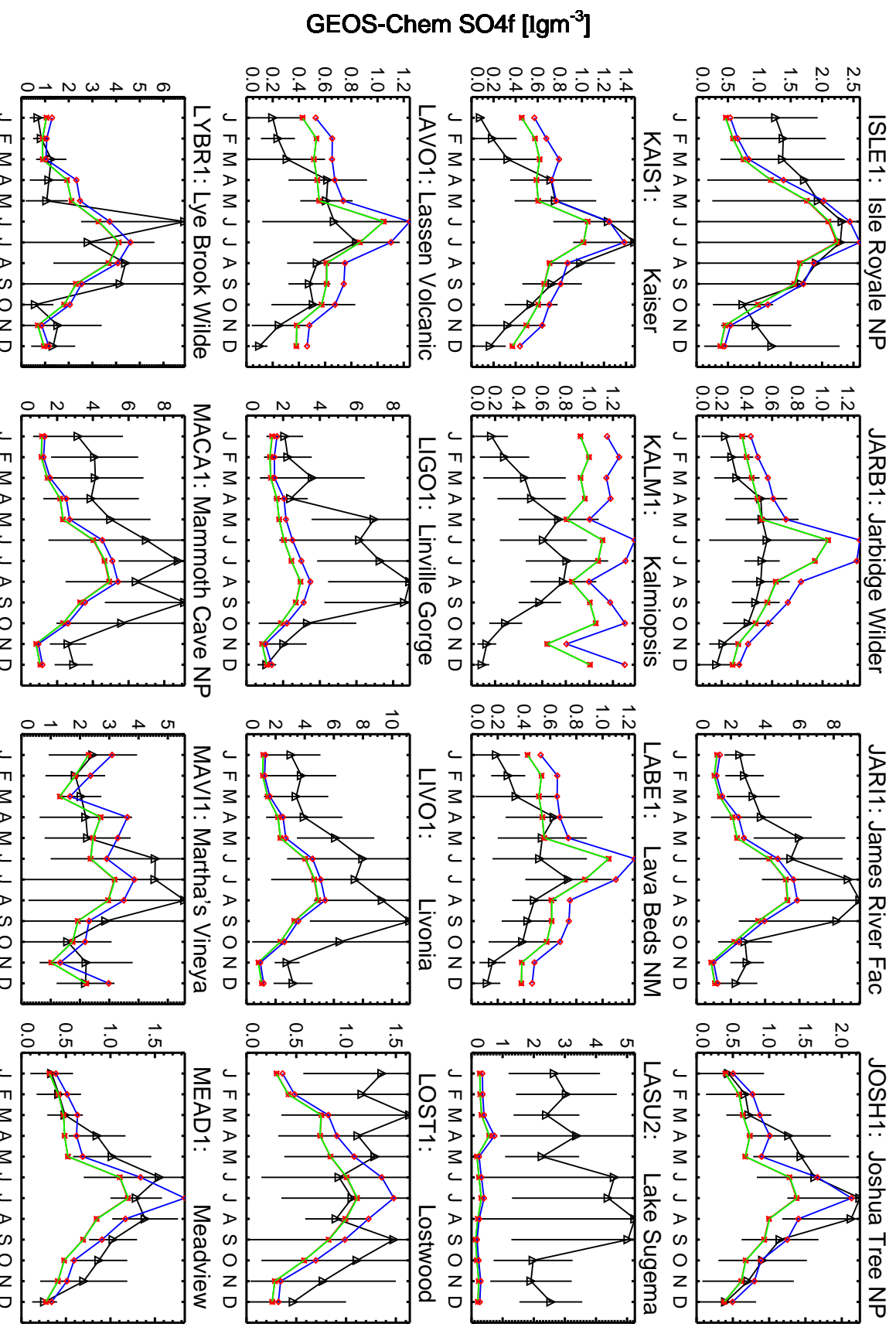
Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)

GEOS-Chem SO₄f [μgm^{-3}]

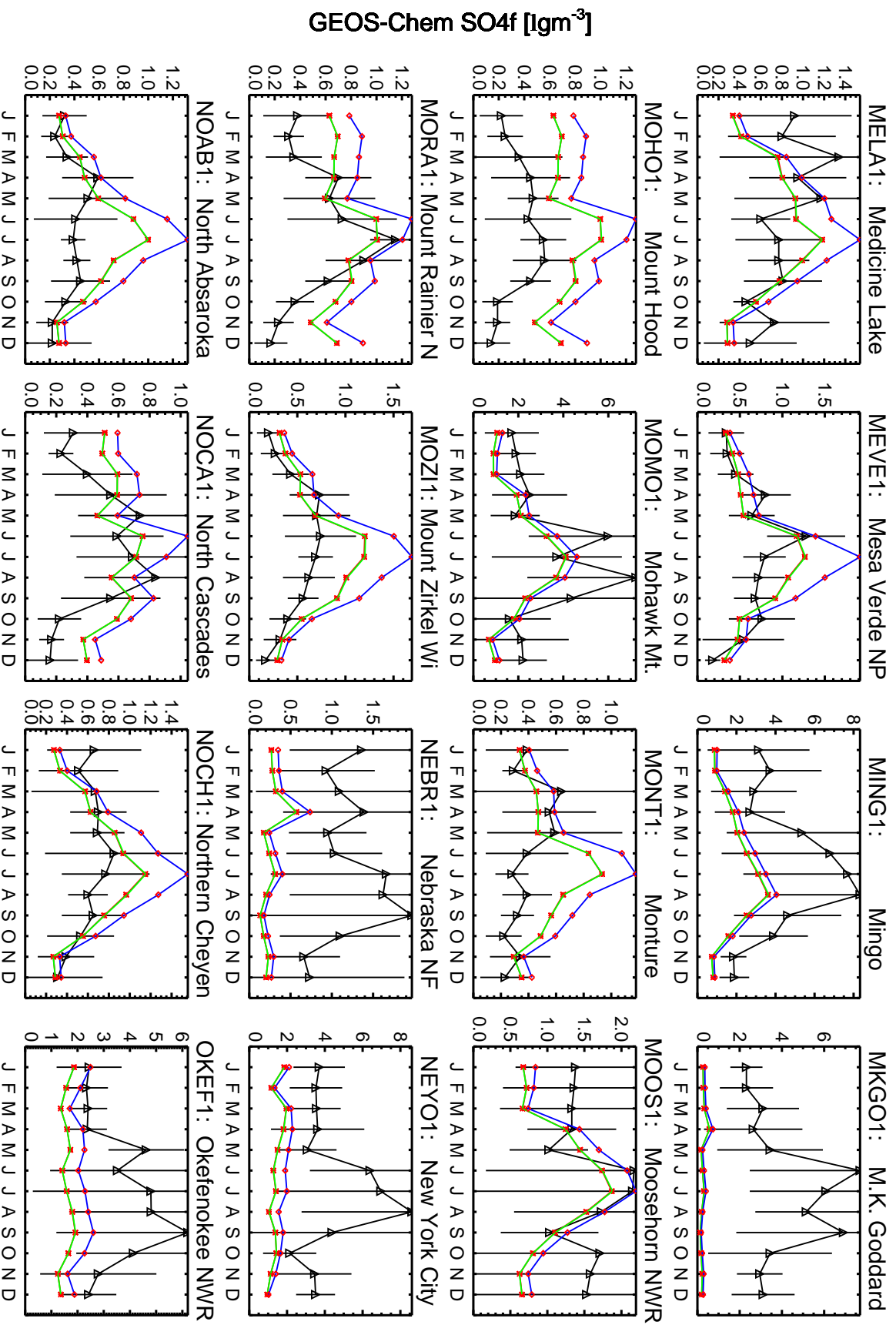


IMPROVE SO₄f [μgm^{-3}]

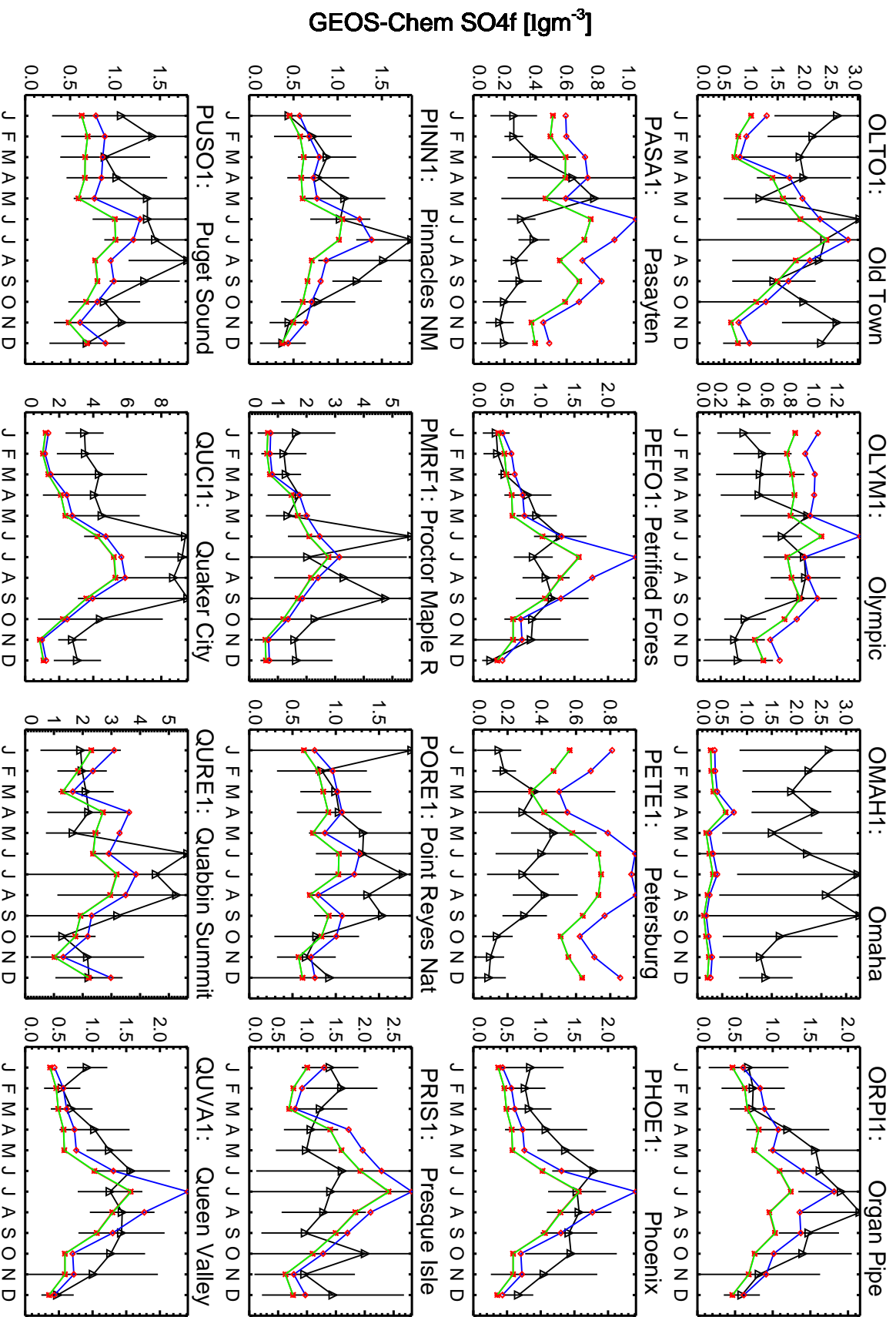
Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)

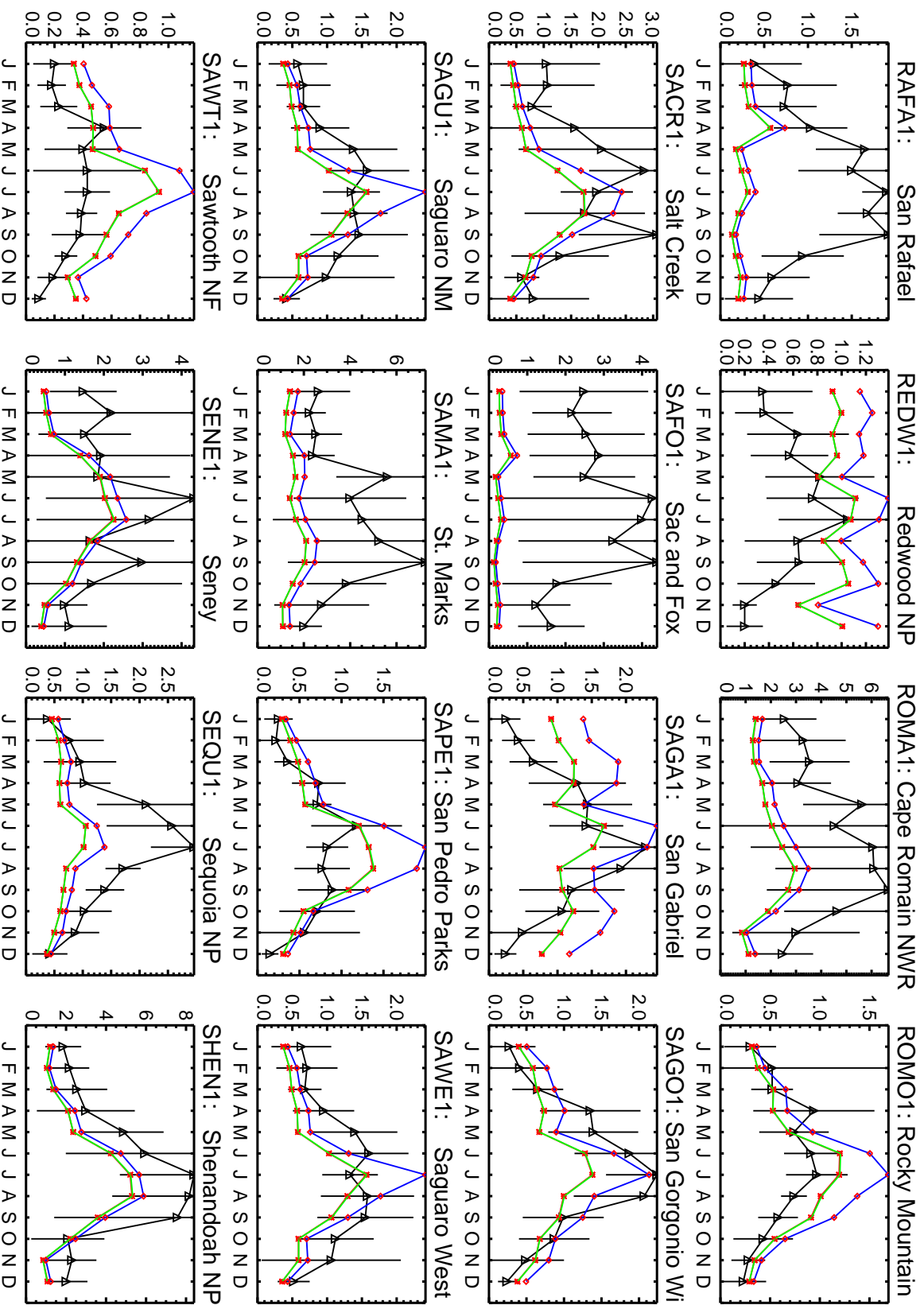


Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



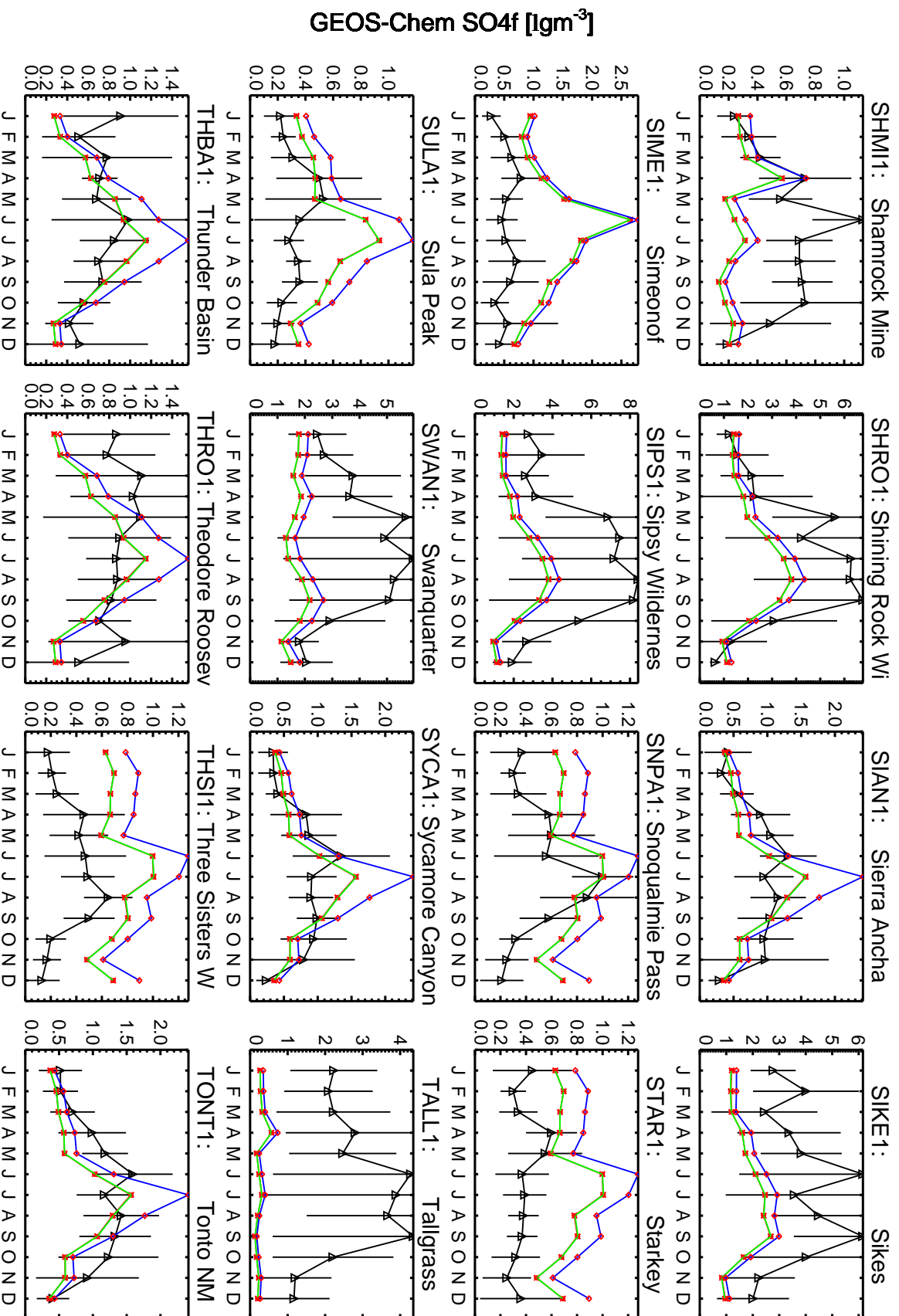
Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)

GEOS-Chem SO₄f [lgm⁻³]



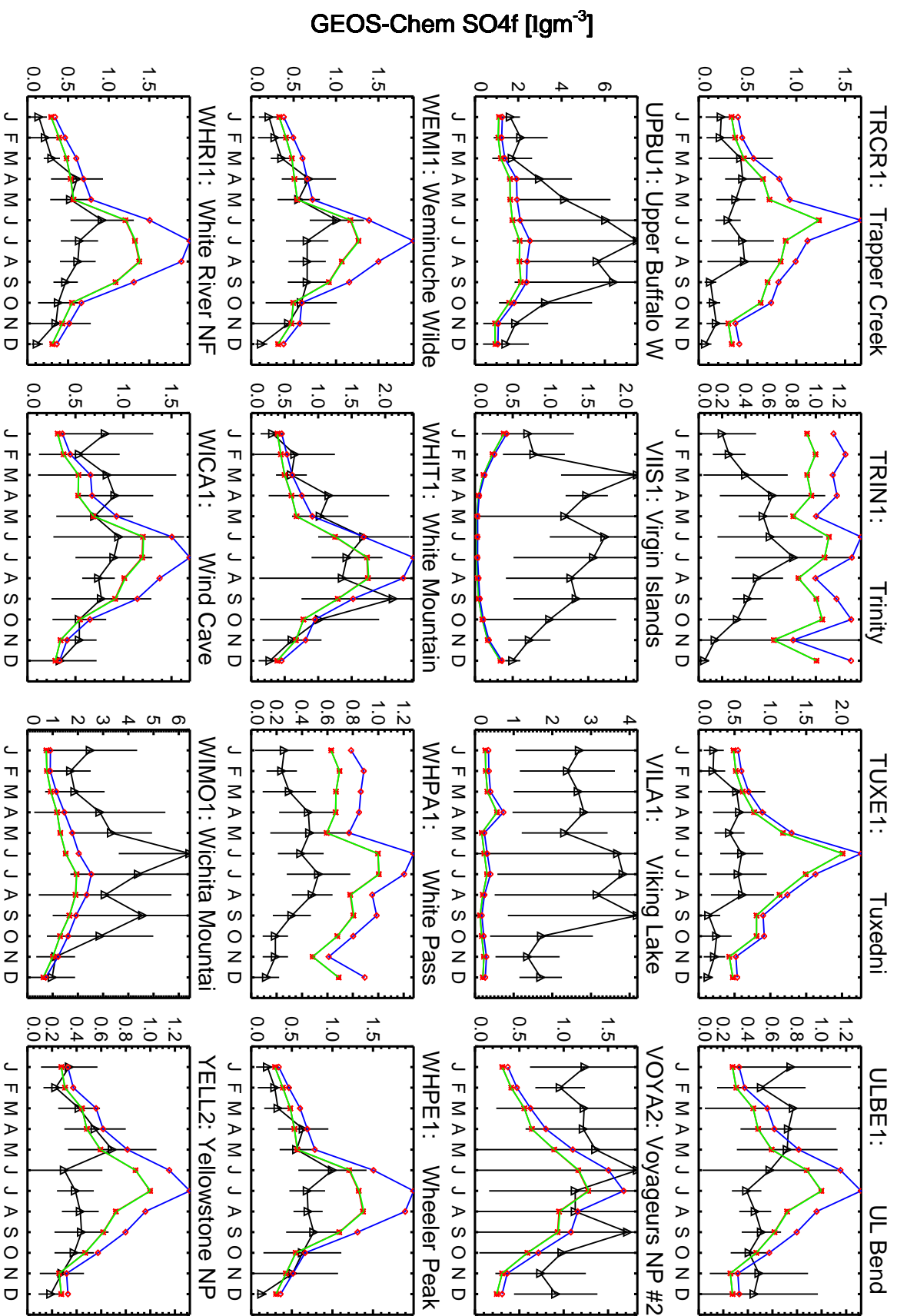
IMPROVE SO₄f [lgm⁻³]

Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



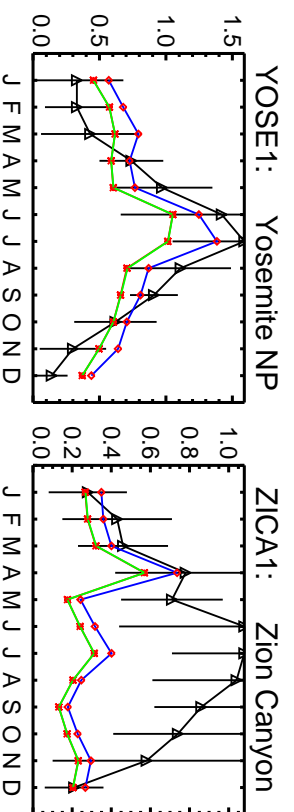
IMPROVE SO₄f [$\mu\text{g m}^{-3}$]

Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



IMPROVE SO₄f [μgm^{-3}]

Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)

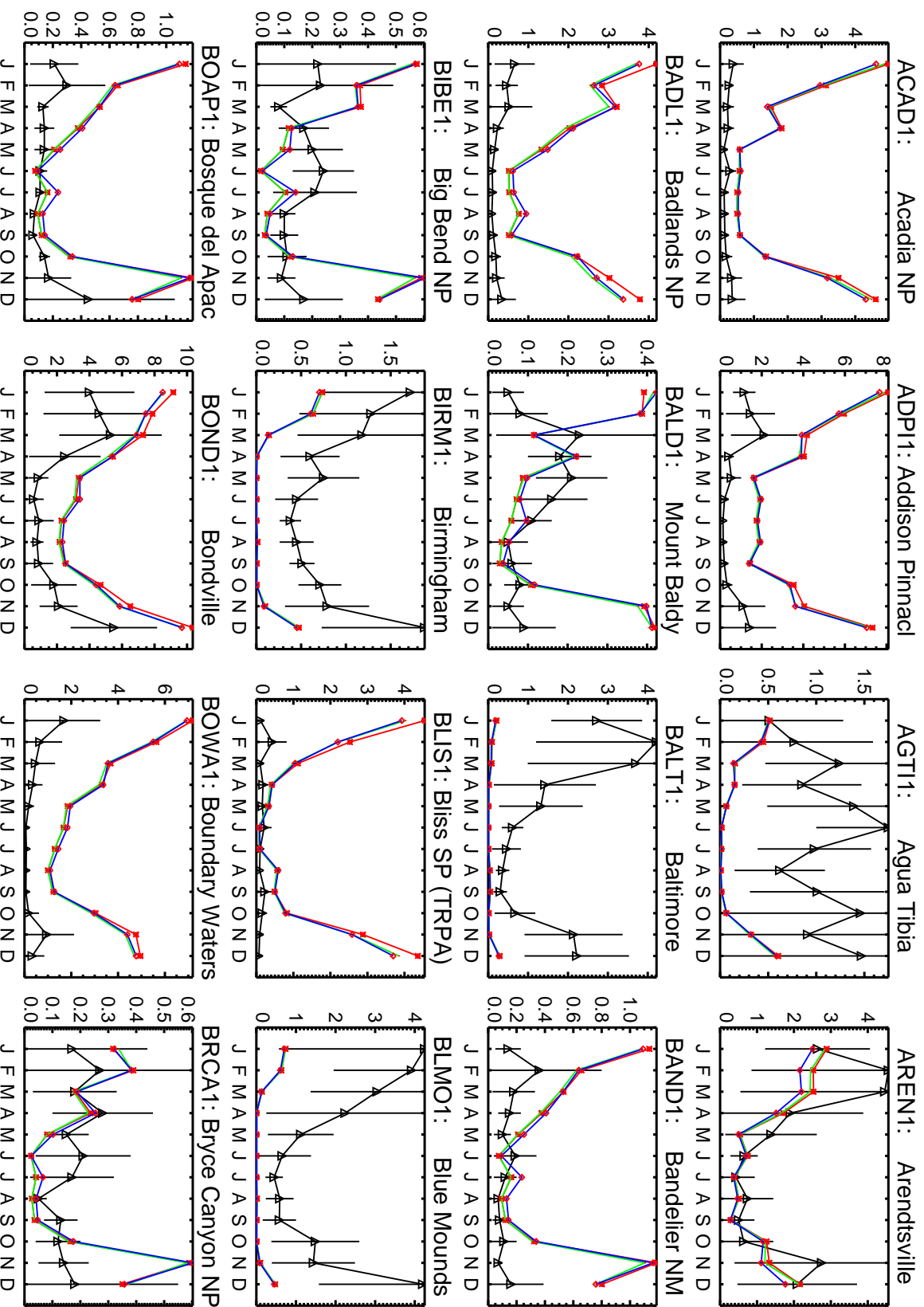


GEOS-Chem SO₄f [$\mu\text{g m}^{-3}$]

IMPROVE SO₄f [$\mu\text{g m}^{-3}$]

Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)

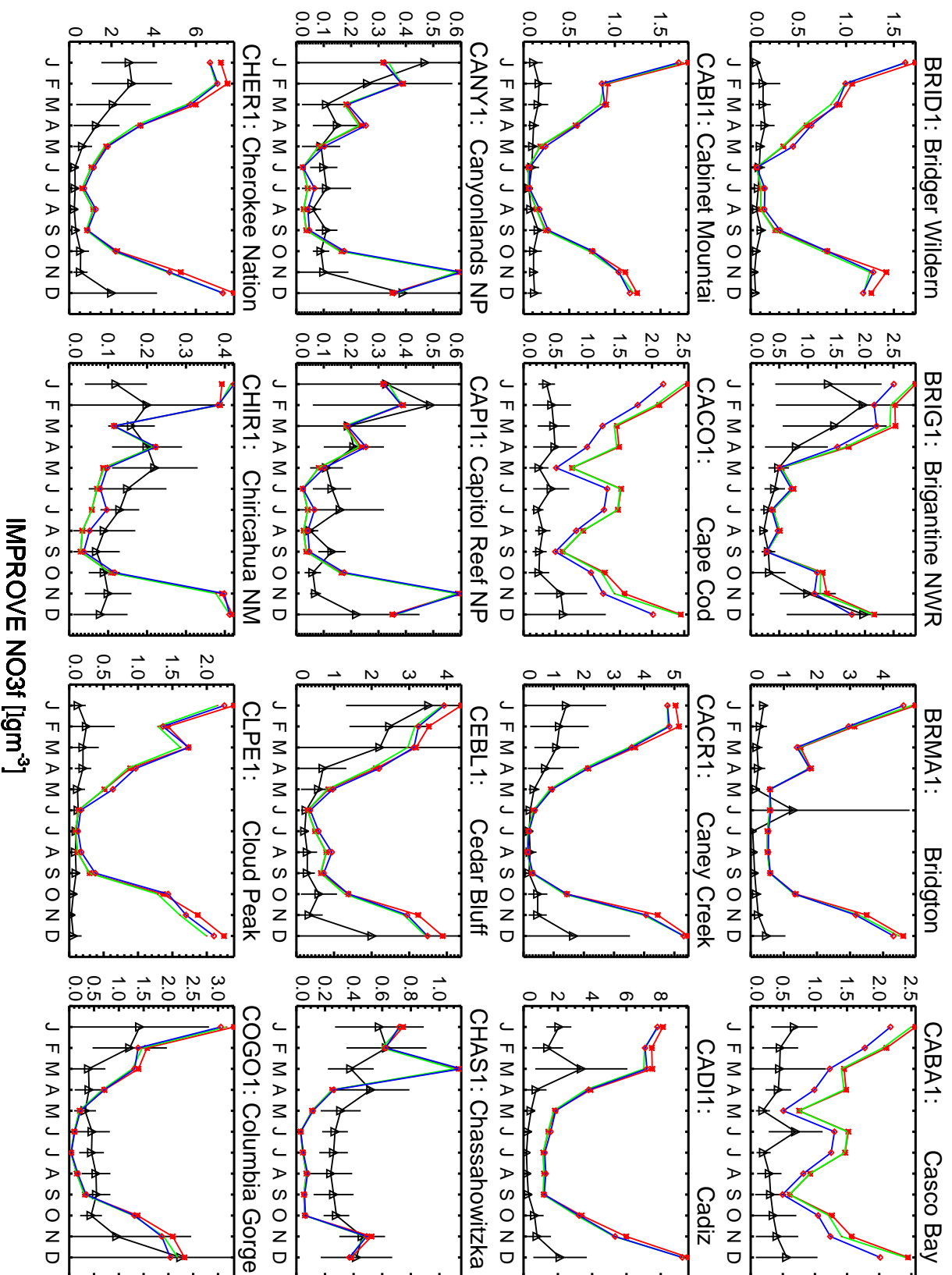
GEOS-Chem NO₃f [$\mu\text{g m}^{-3}$]



IMPROVE NO₃f [$\mu\text{g m}^{-3}$]

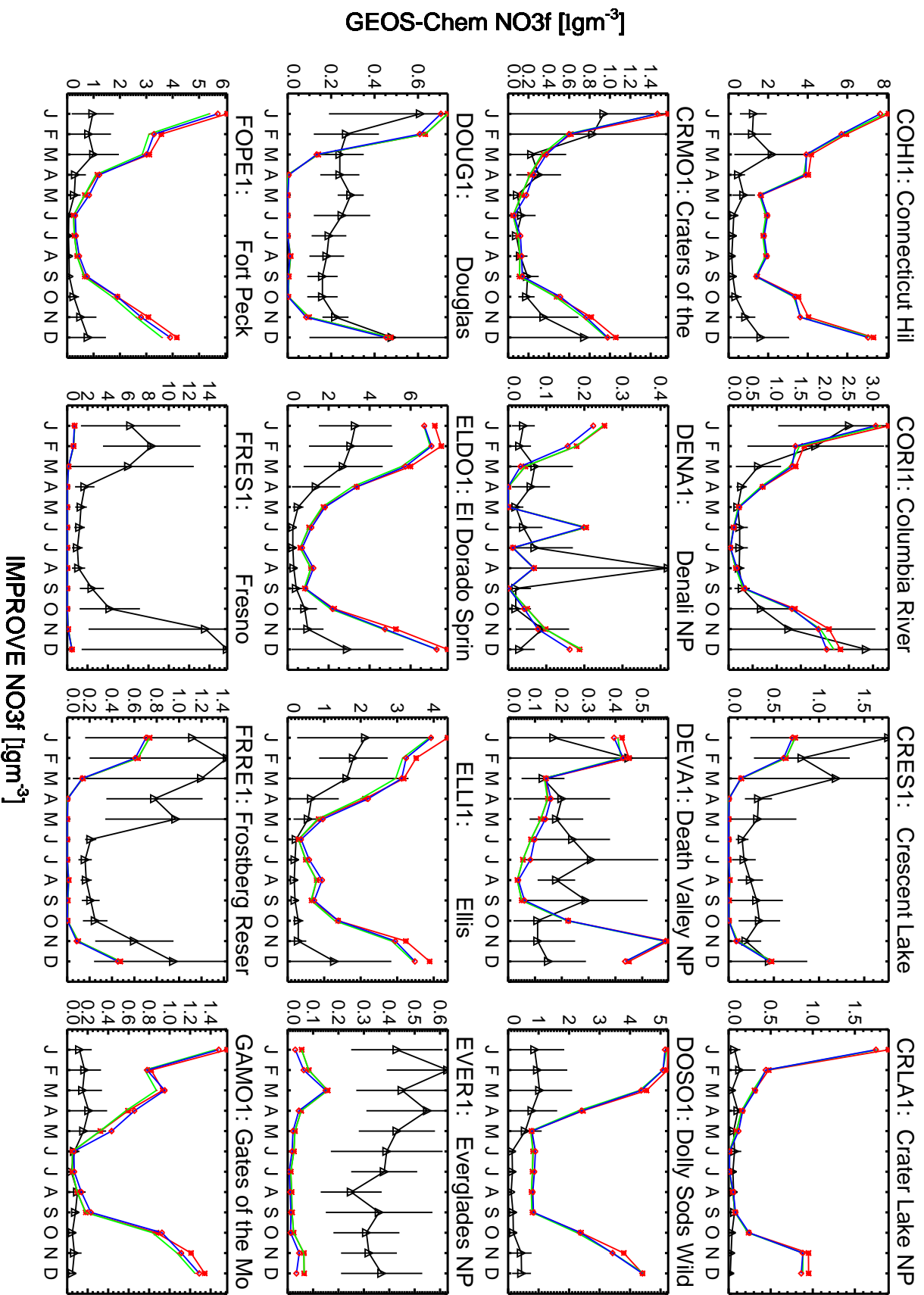
Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)

GEOS-Chem NO₃f [$\mu\text{g m}^{-3}$]

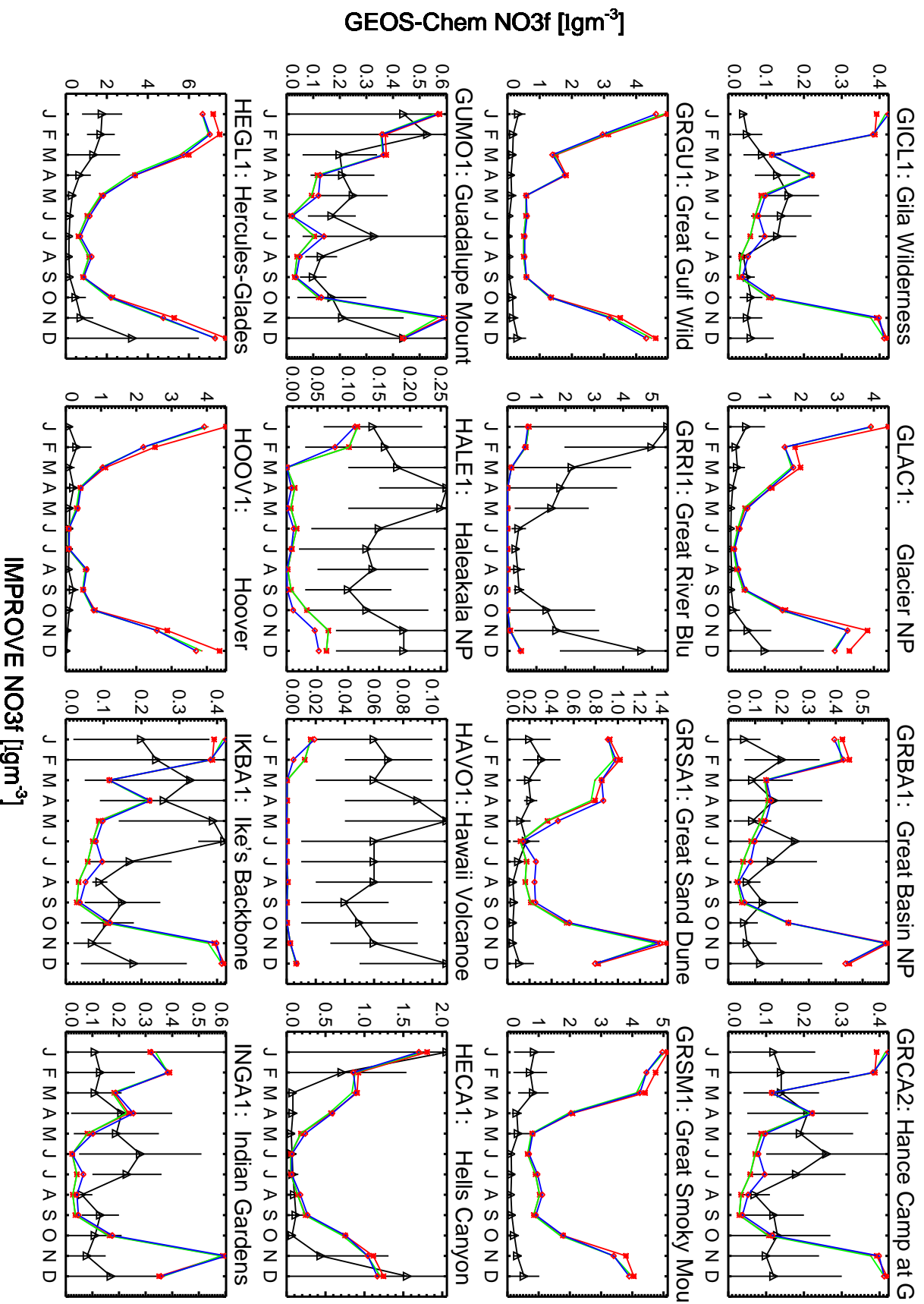


IMPROVE NO₃f [$\mu\text{g m}^{-3}$]

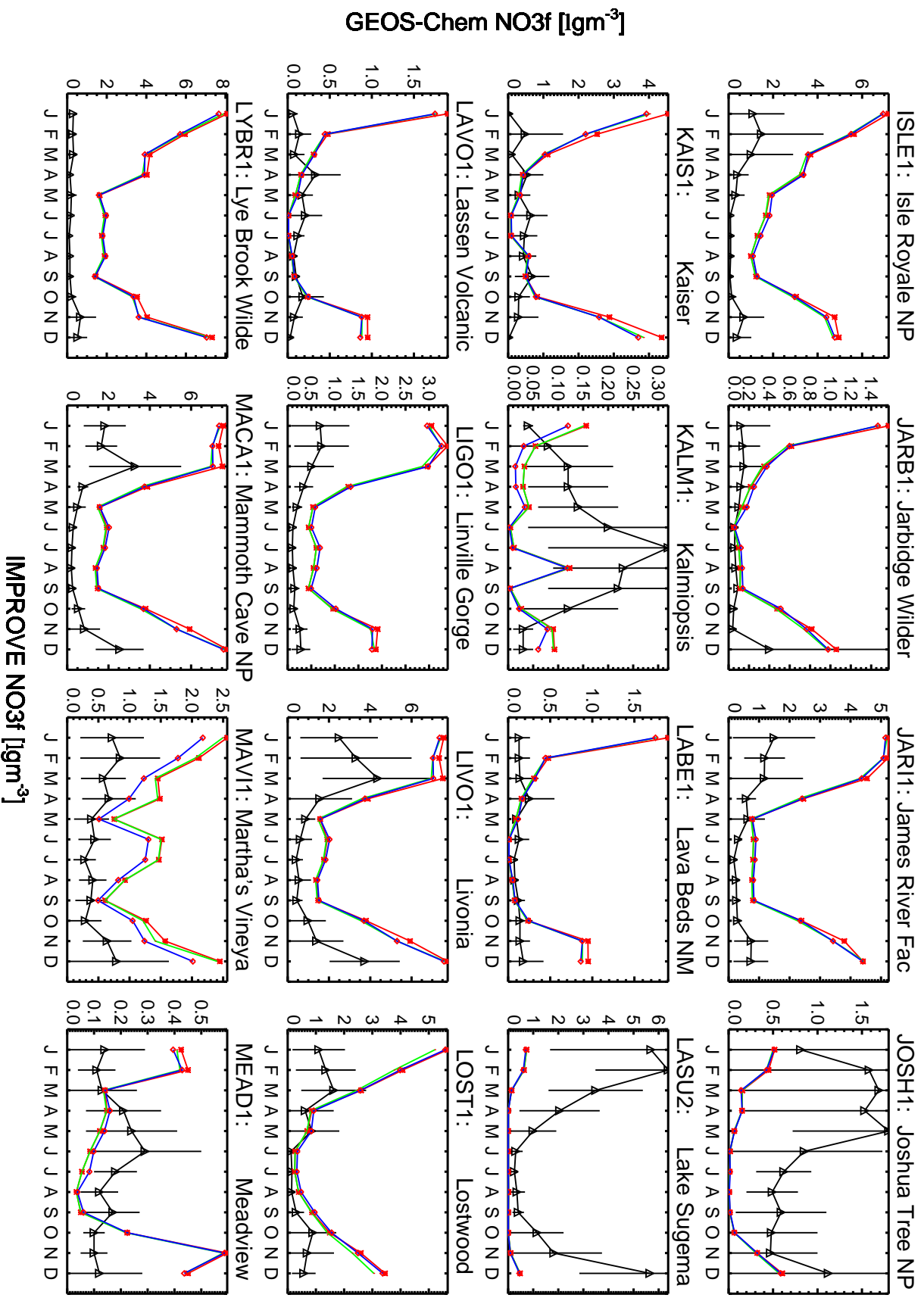
Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)

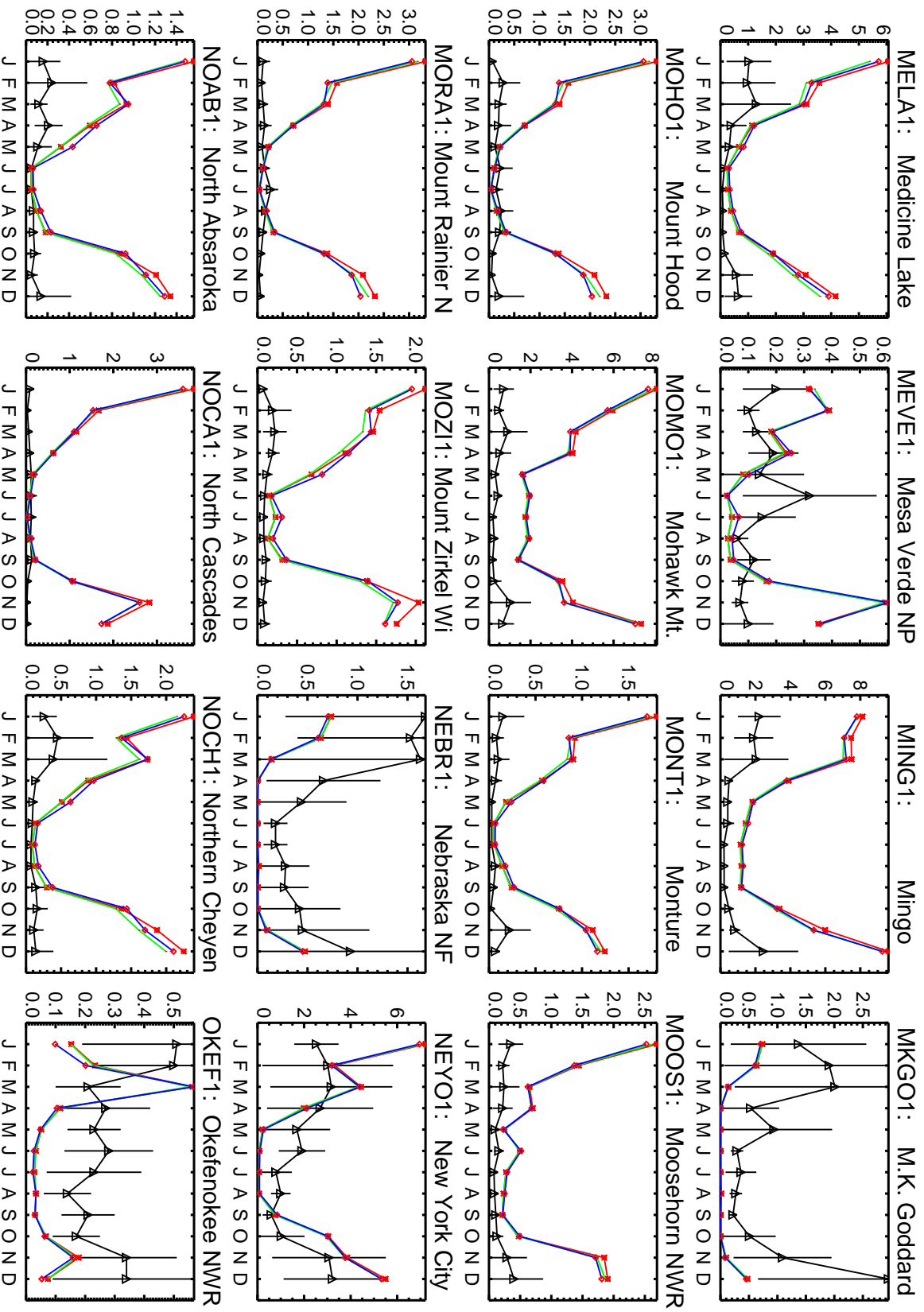


Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



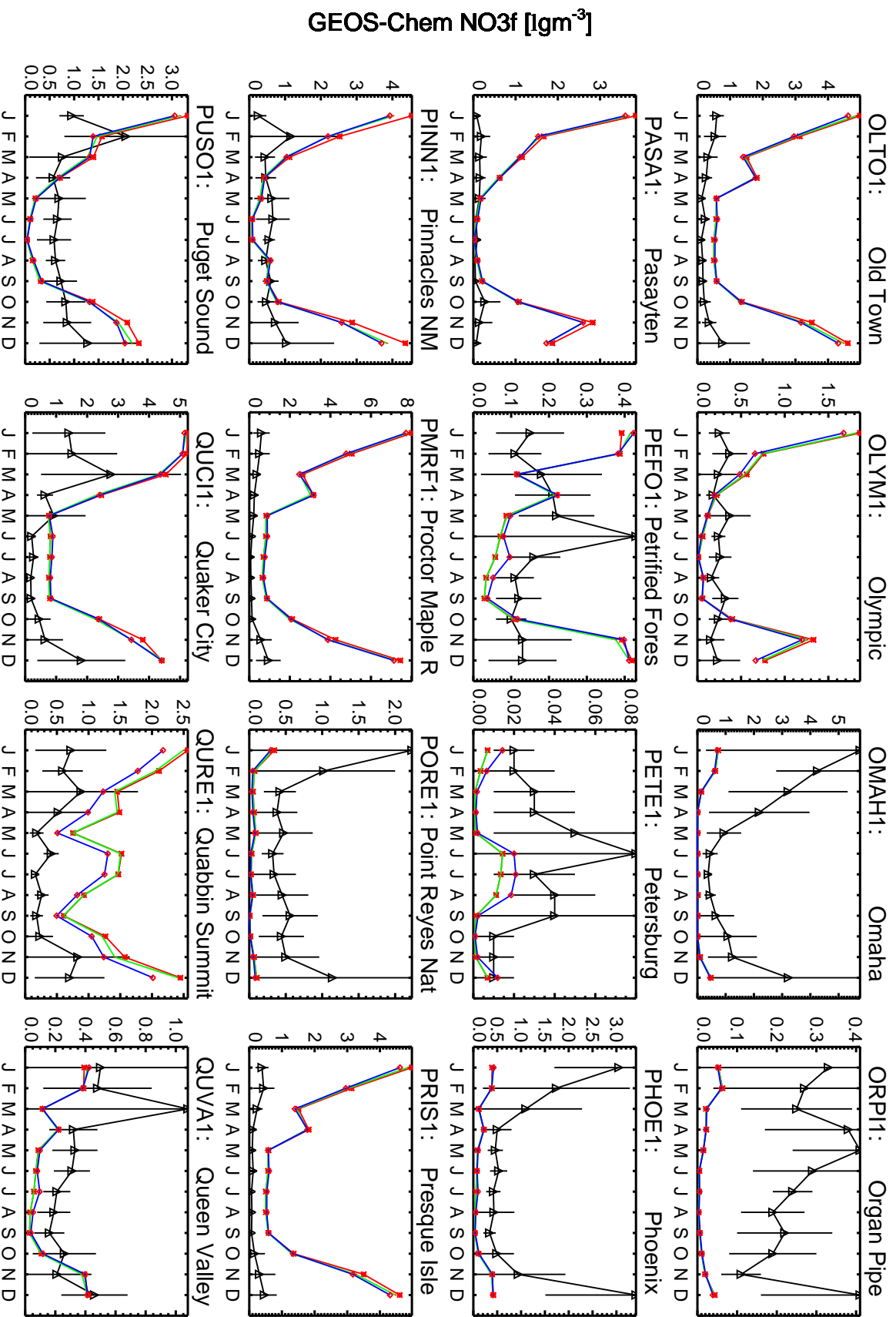
Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)

GEOS-Chem NO₃f [$\mu\text{g m}^{-3}$]

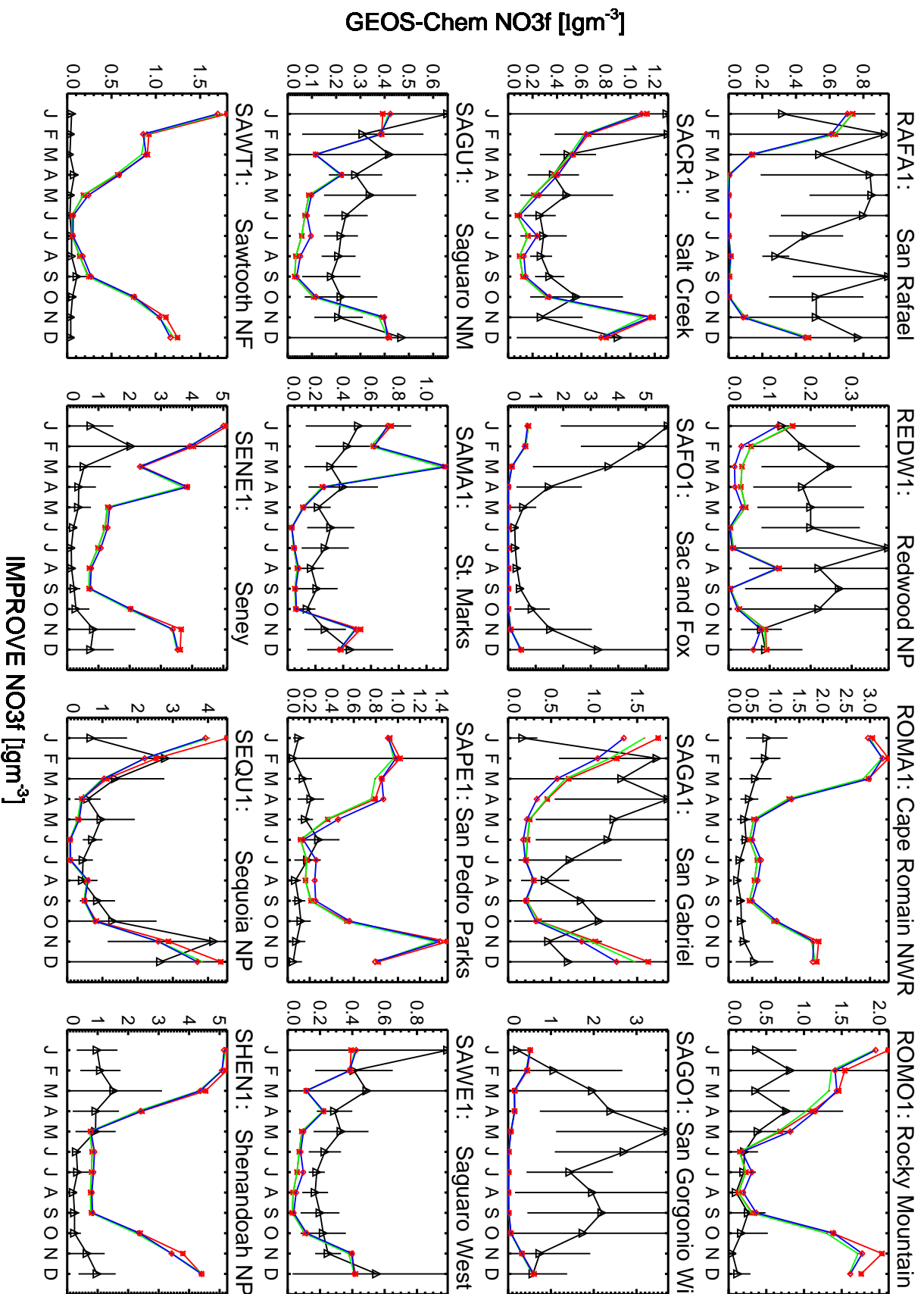


IMPROVE NO₃f [$\mu\text{g m}^{-3}$]

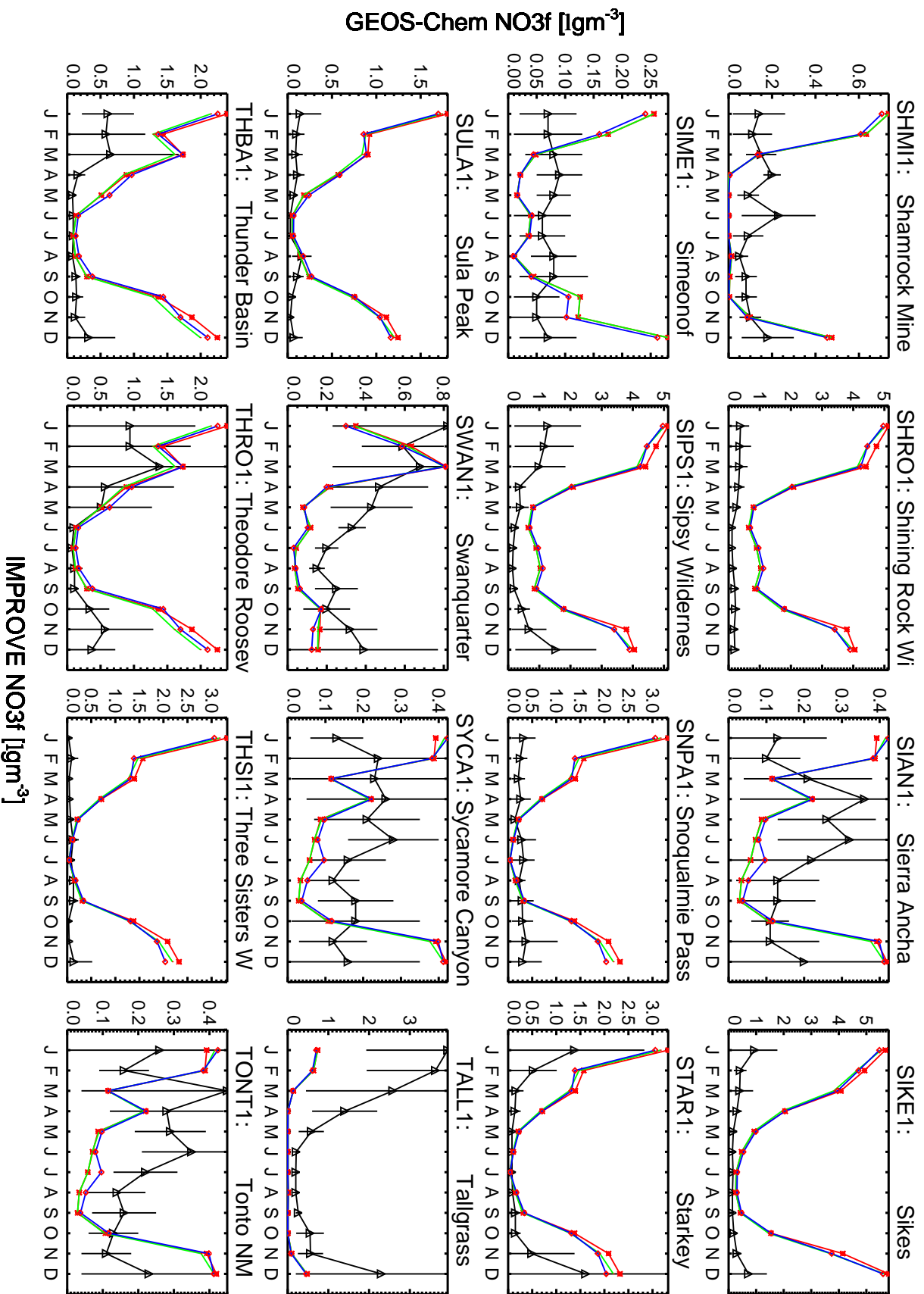
Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



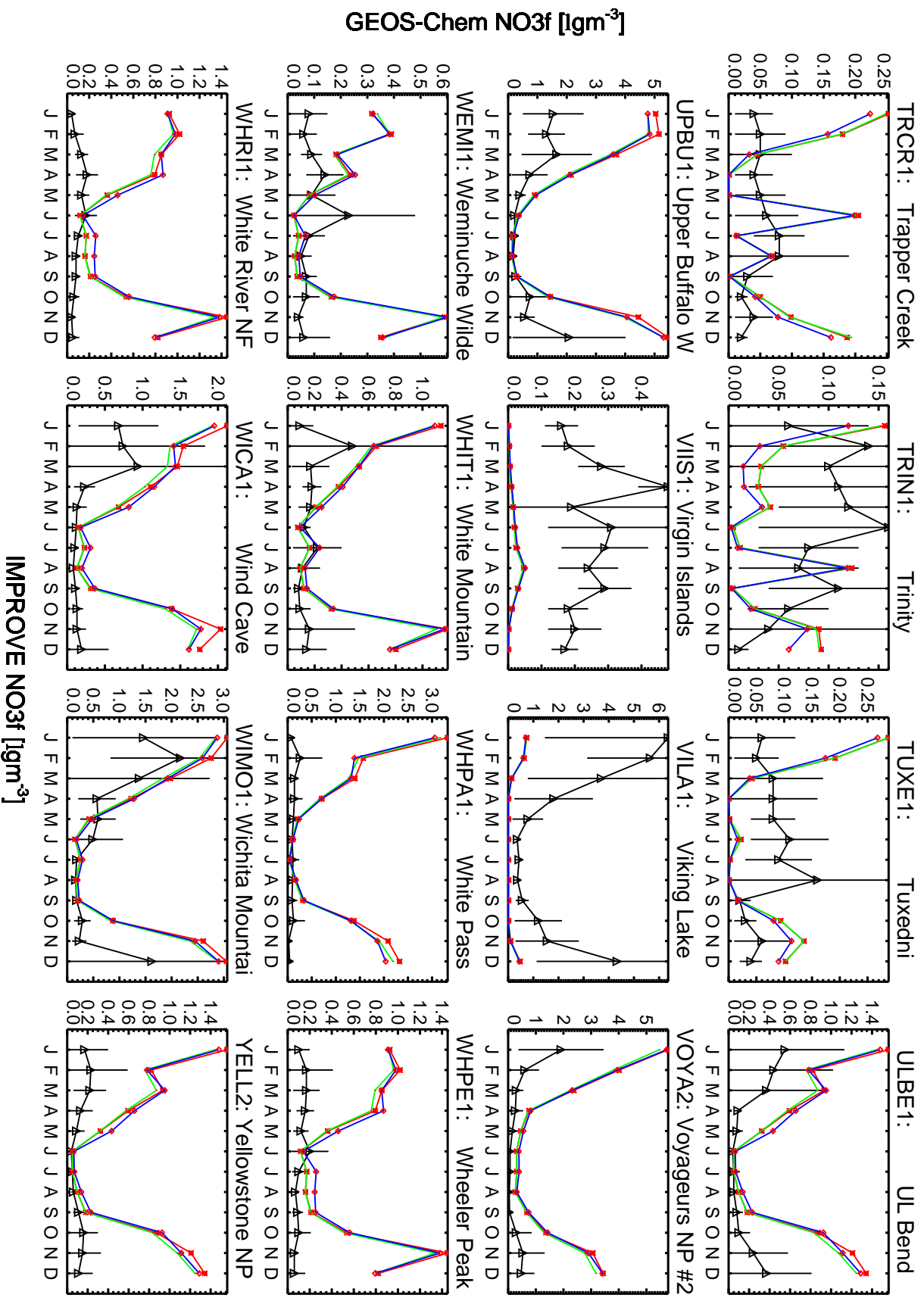
Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



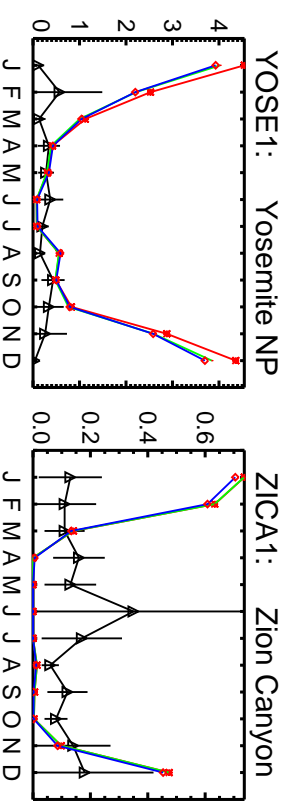
Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



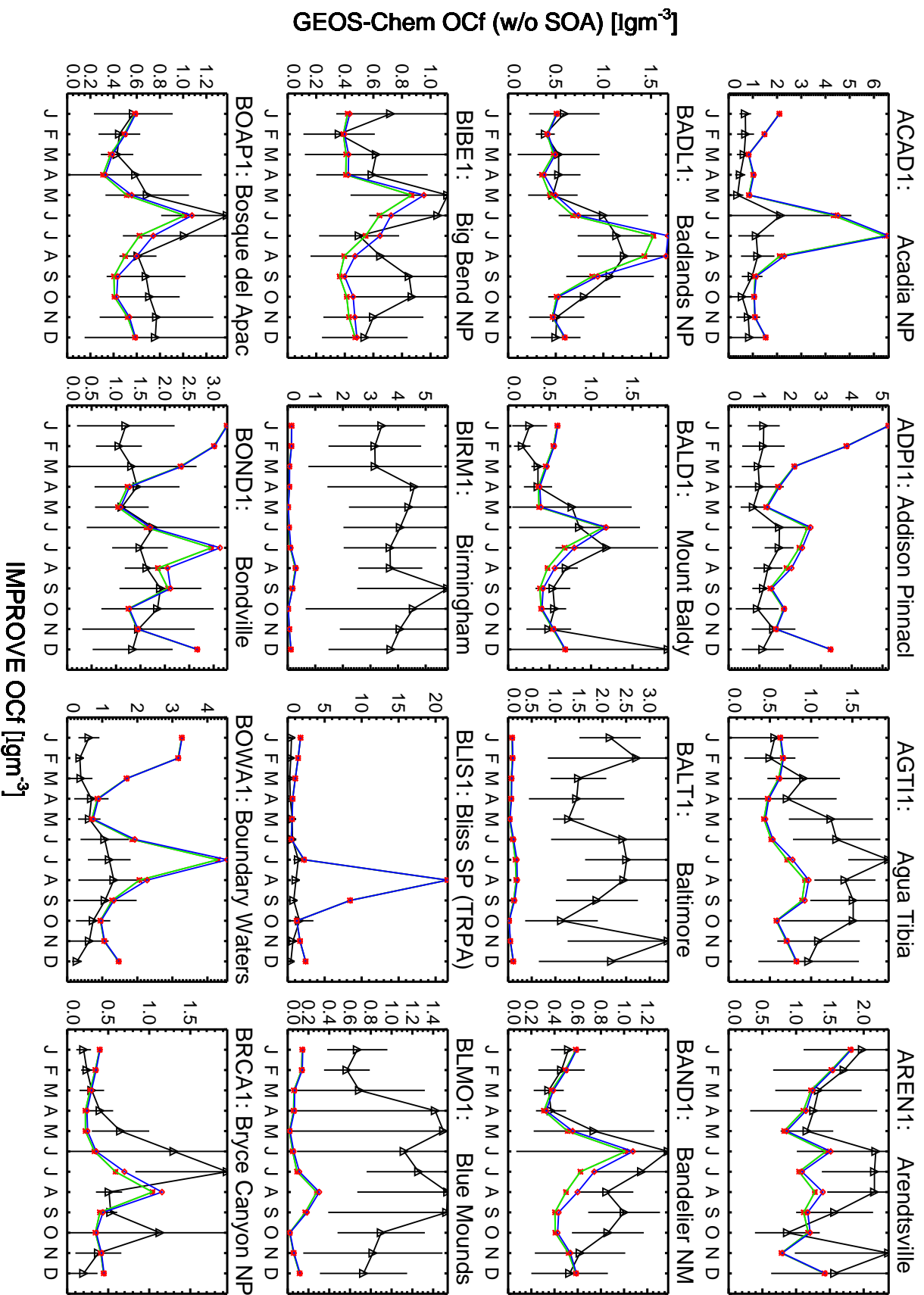
Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



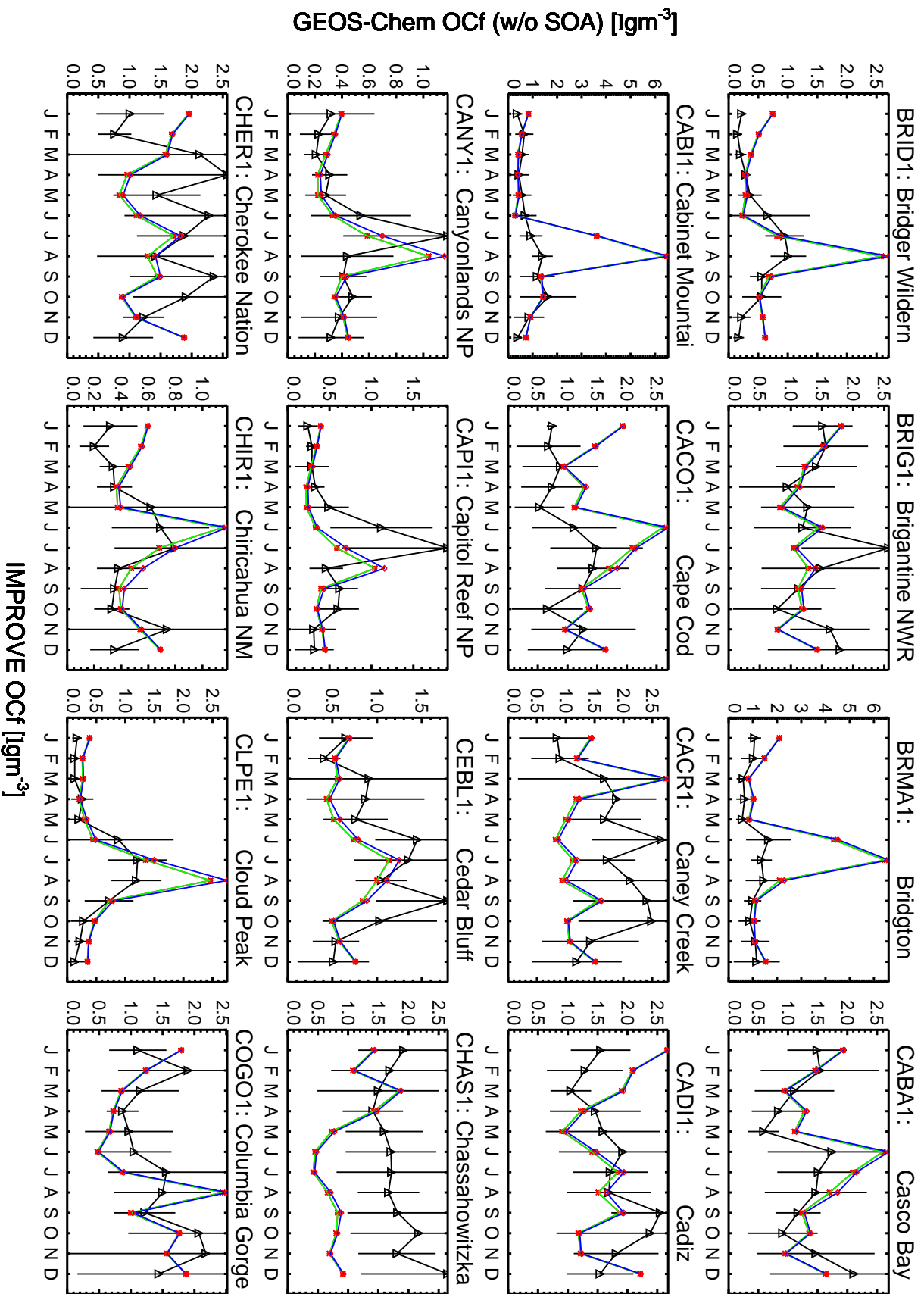
GEOS-Chem NO₃f [Igm⁻³]

IMPROVE NO₃f [Igm⁻³]

Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)

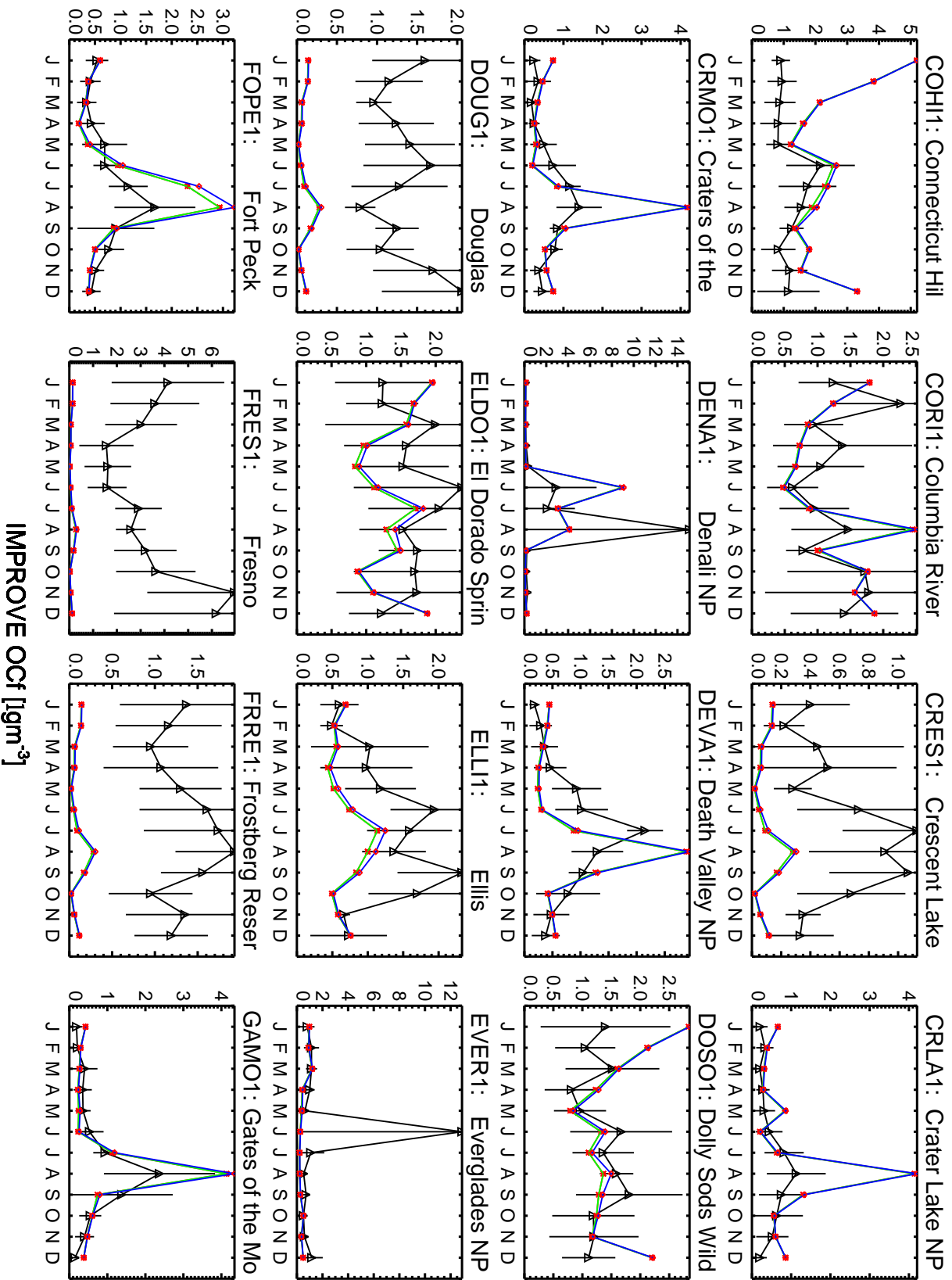


Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



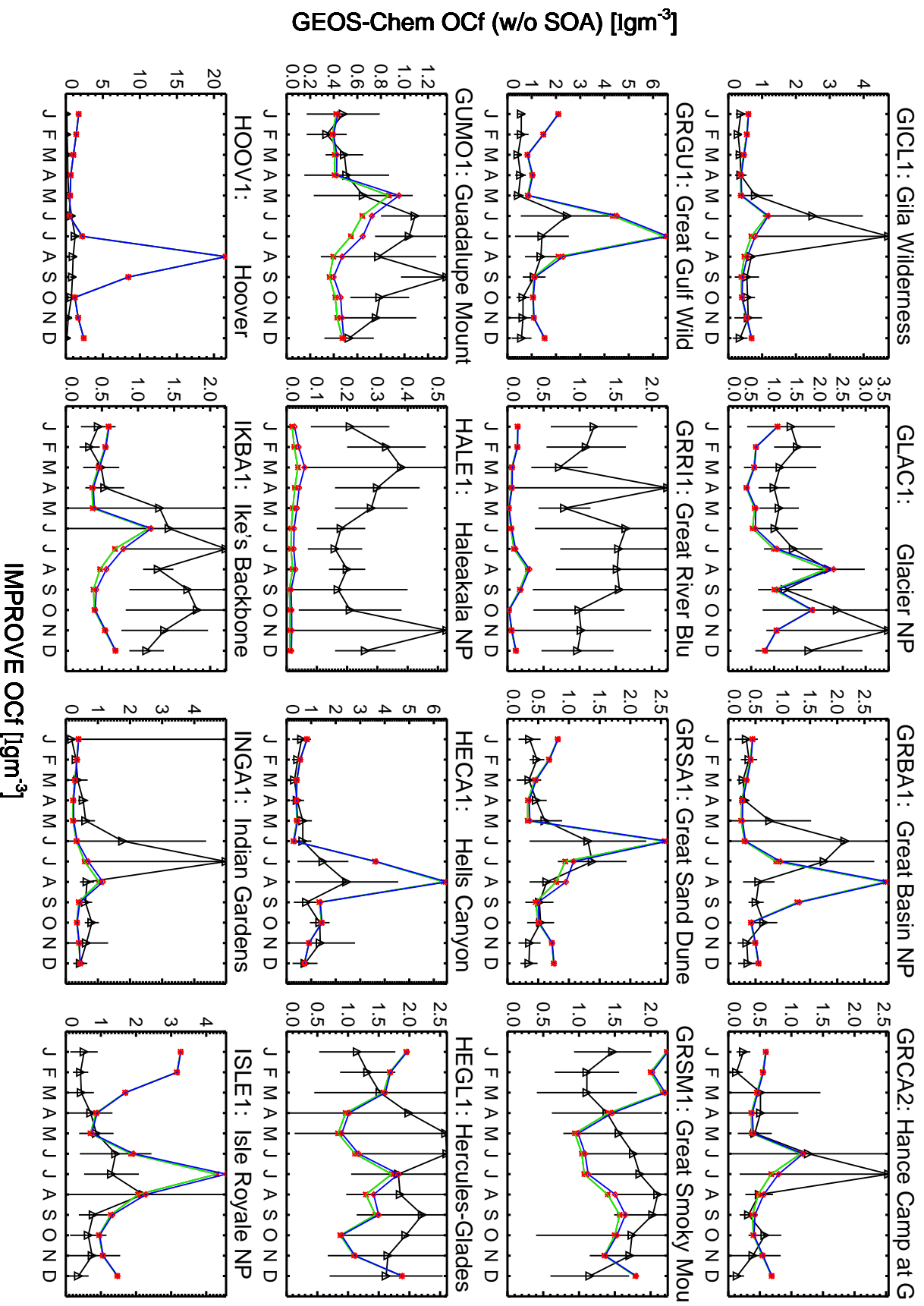
Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)

GEOS-Chem OCf (w/o SOA) [$\mu\text{g m}^{-3}$]

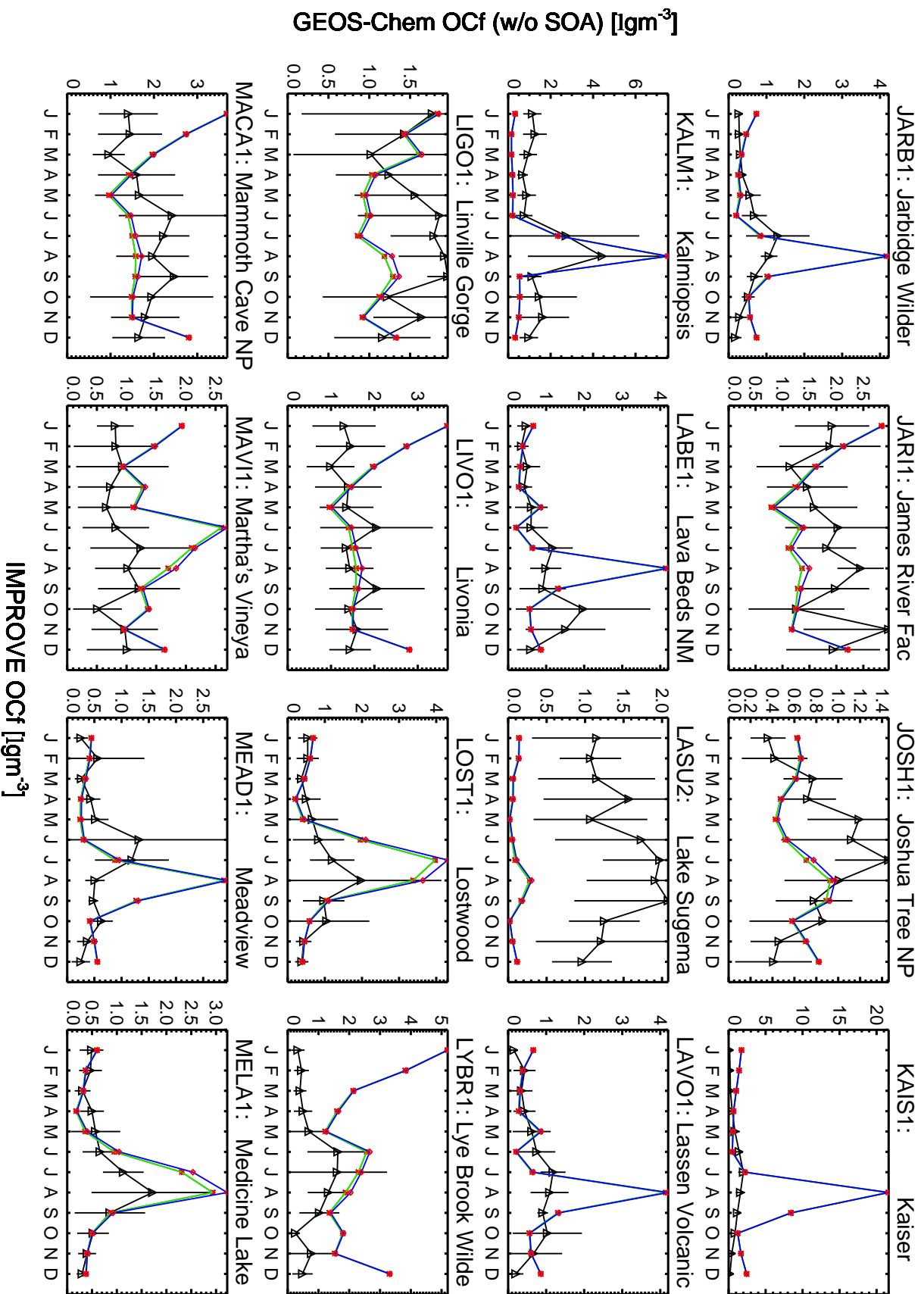


IMPROVE OCf [$\mu\text{g m}^{-3}$]

Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)

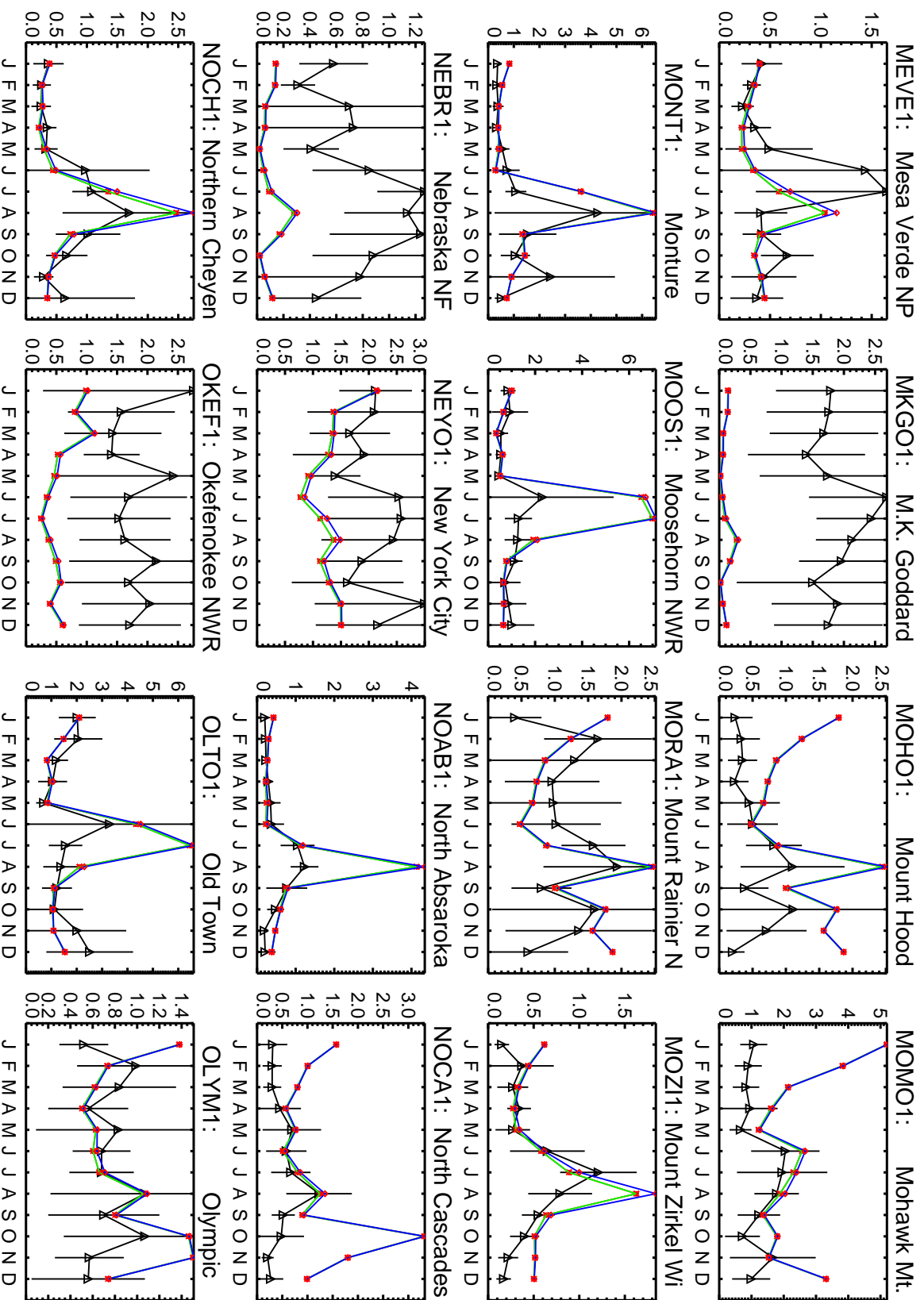


Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



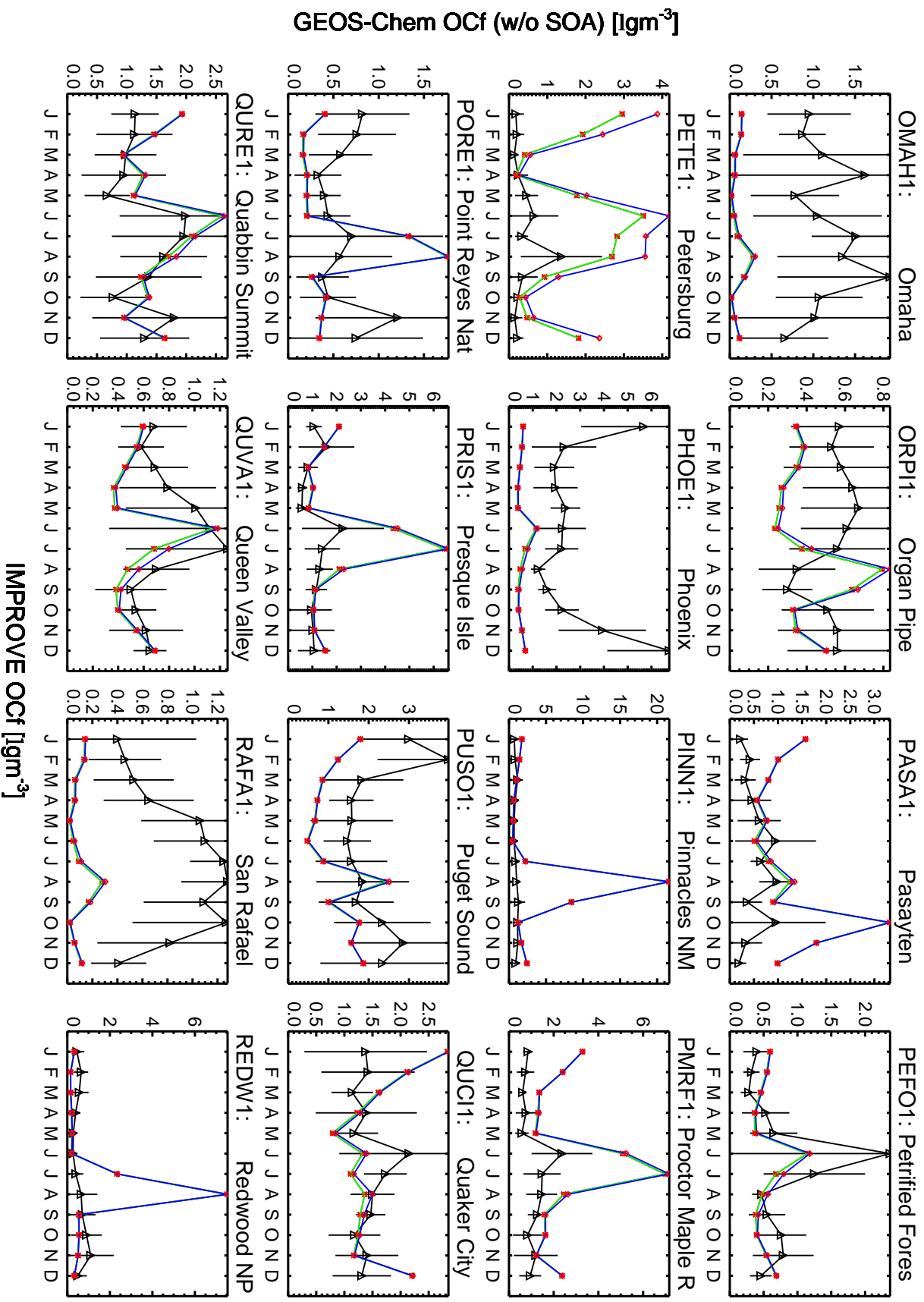
Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)

GEOS-Chem OCf (w/o SOA) [$\mu\text{g m}^{-3}$]

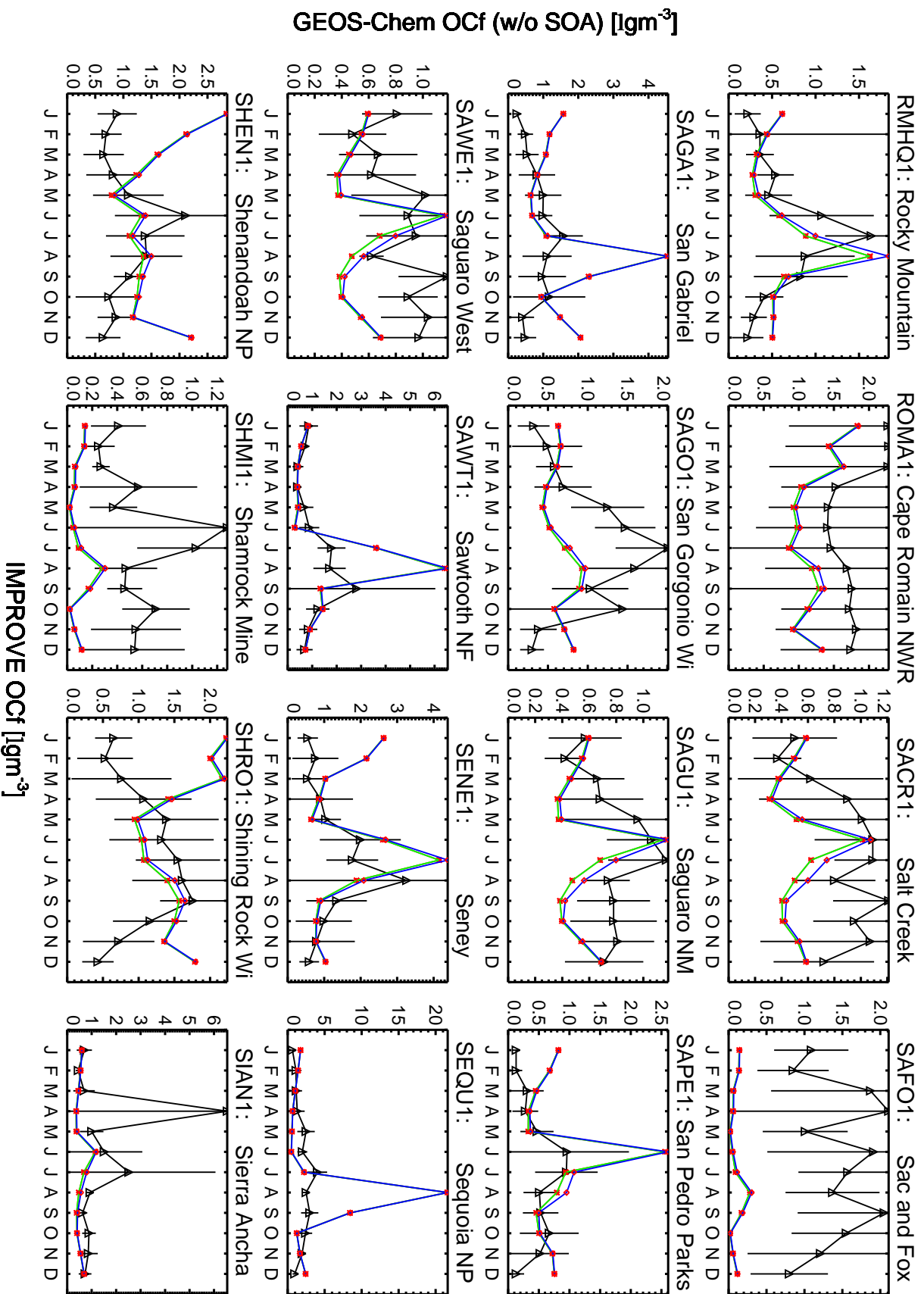


IMPROVE OCf [$\mu\text{g m}^{-3}$]

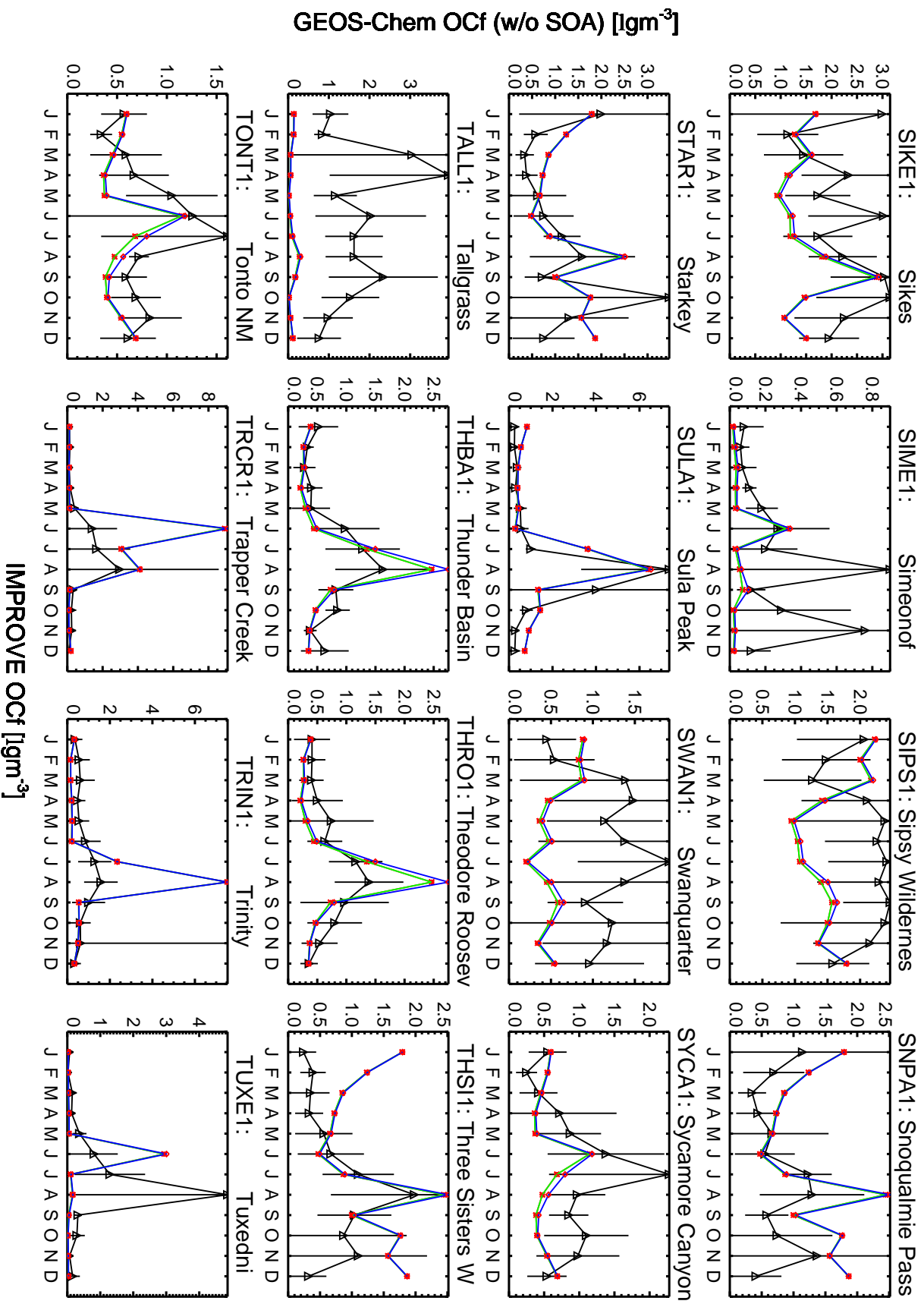
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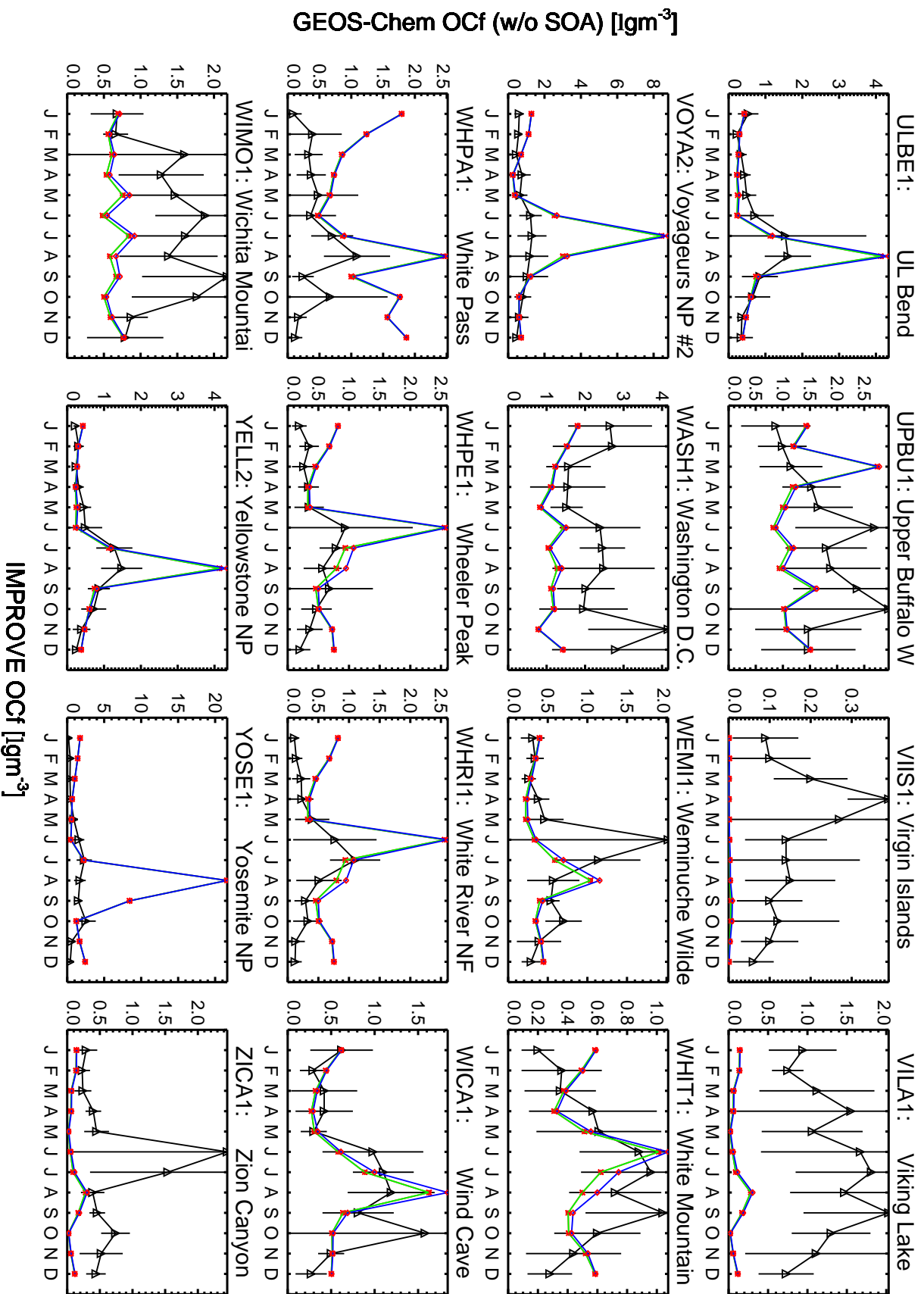
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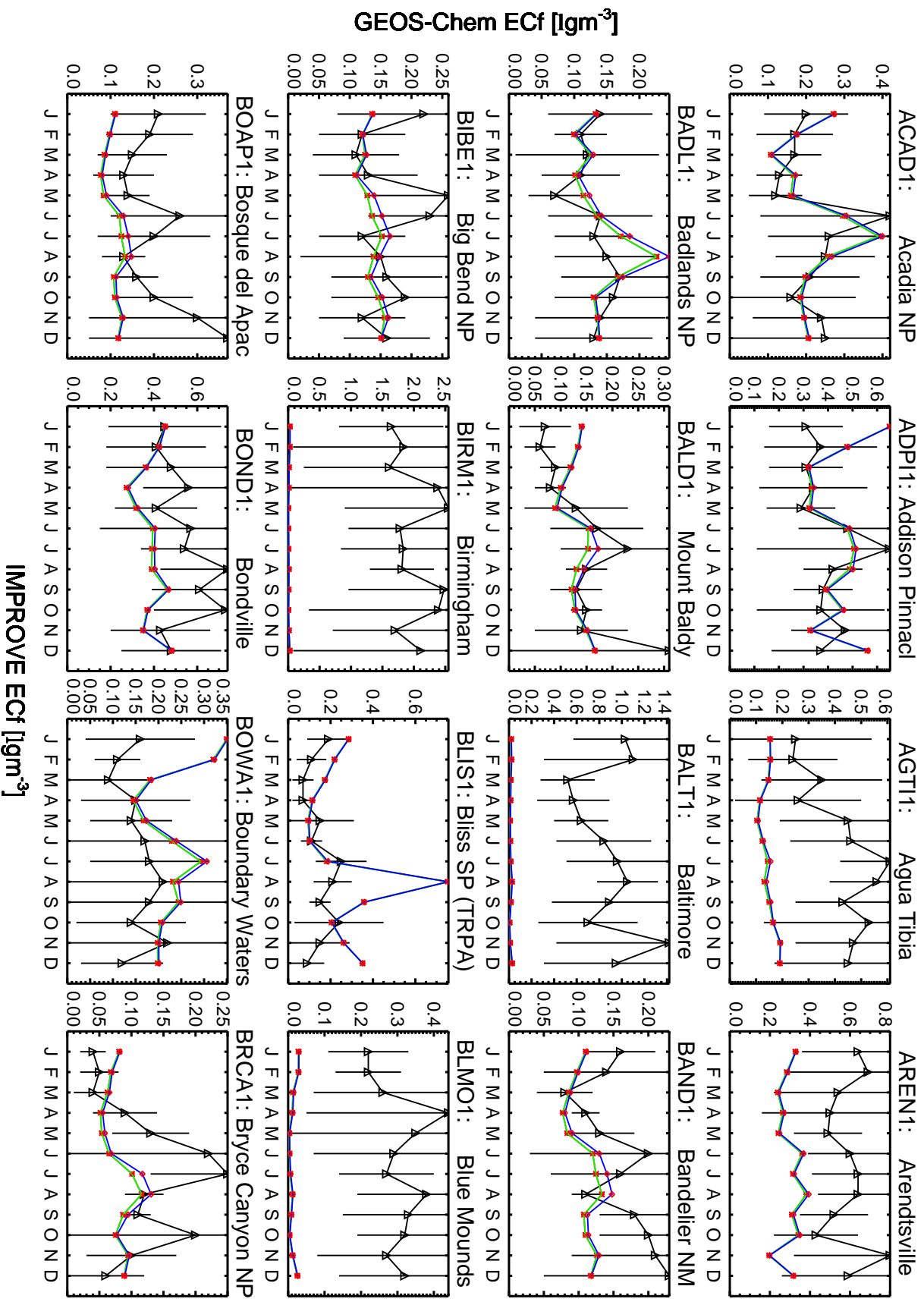
Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



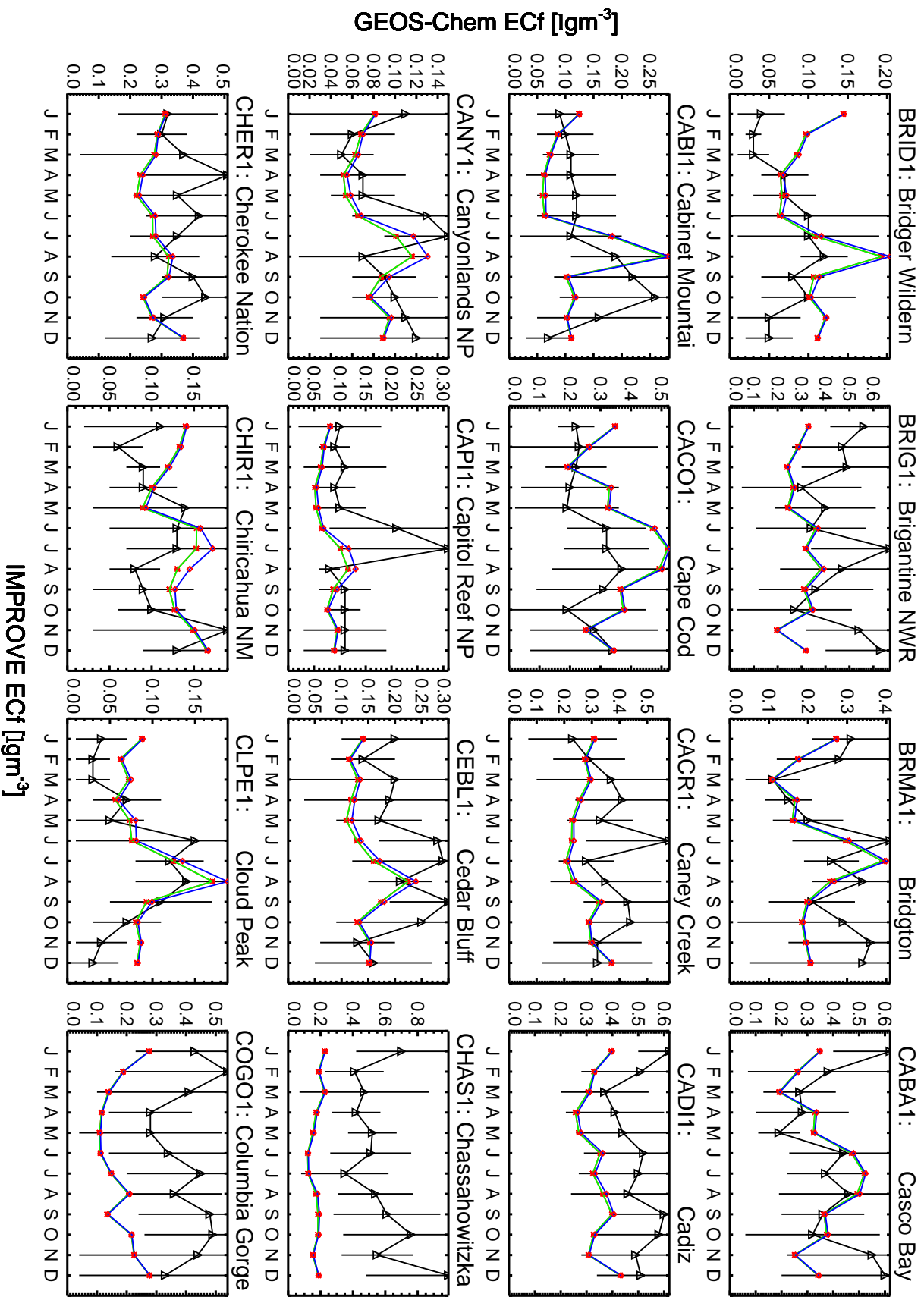
Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



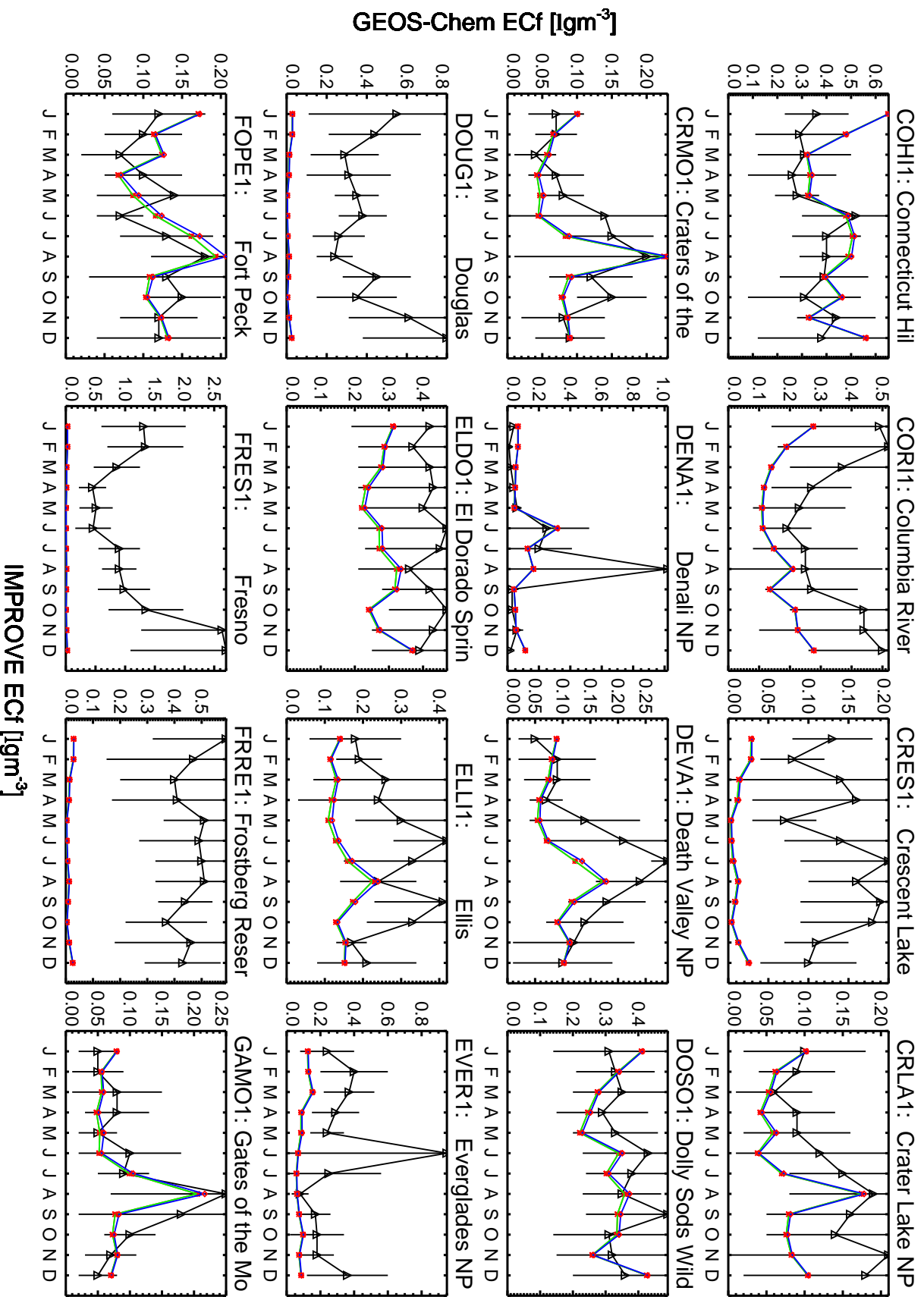
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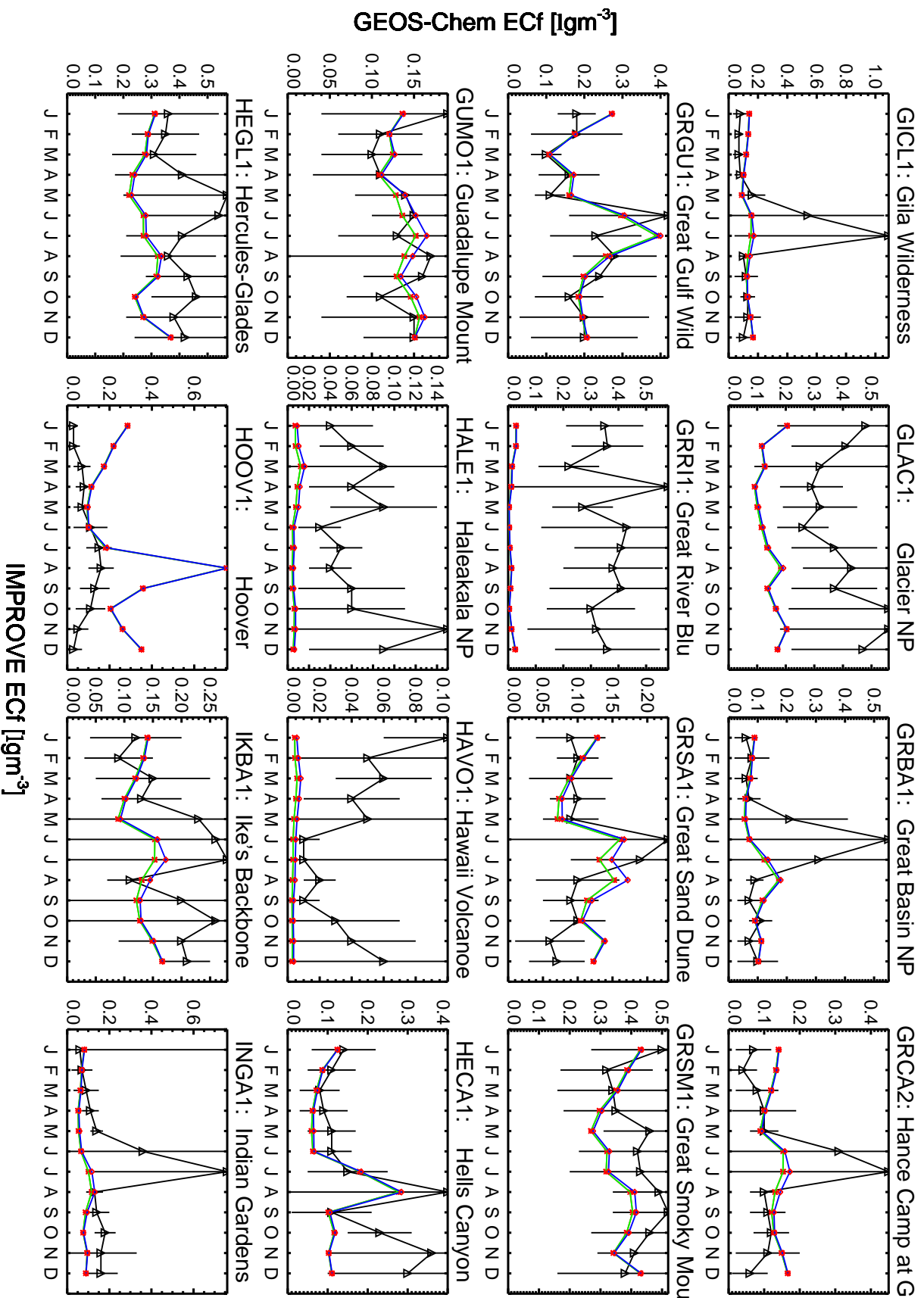
Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



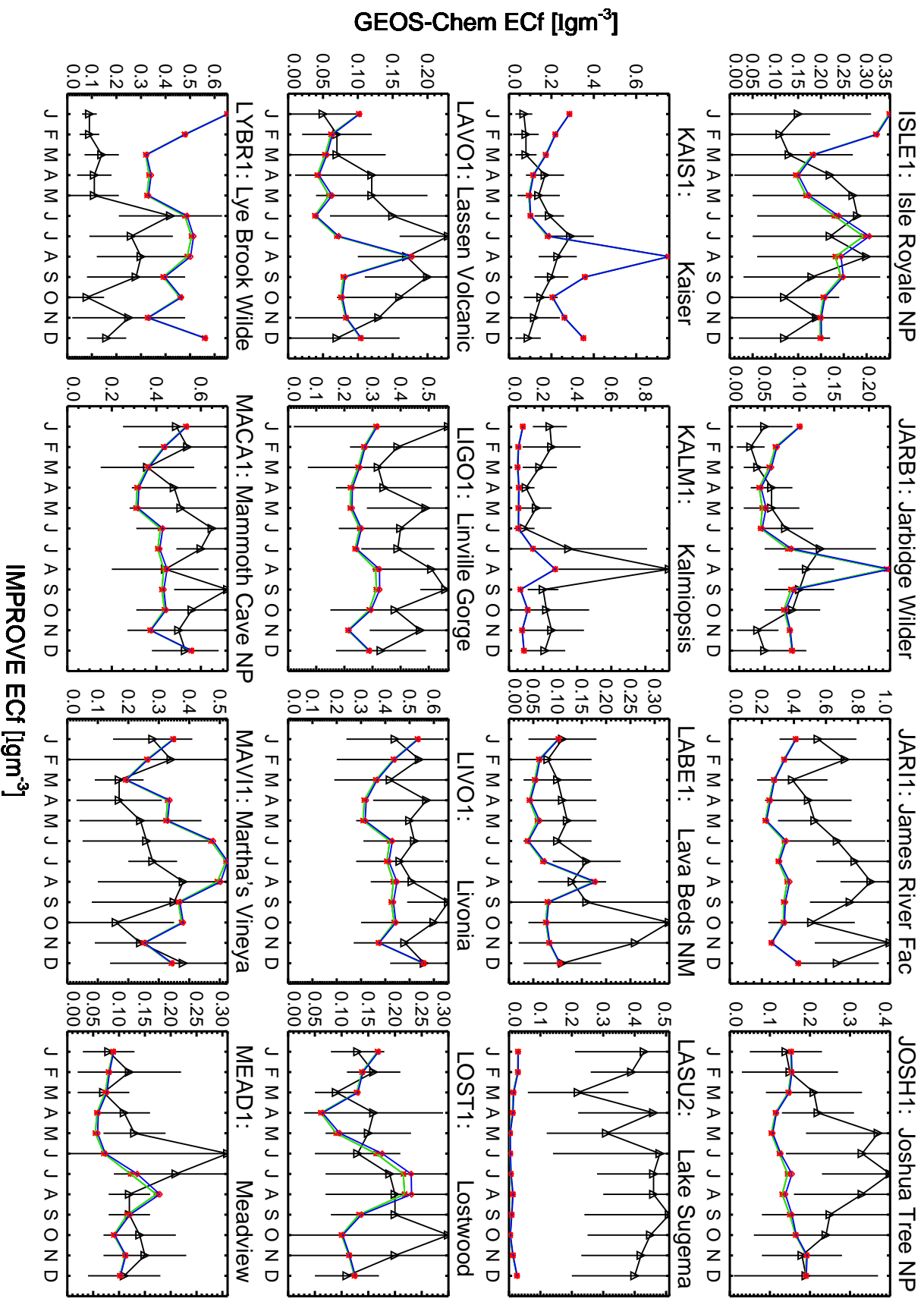
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Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)

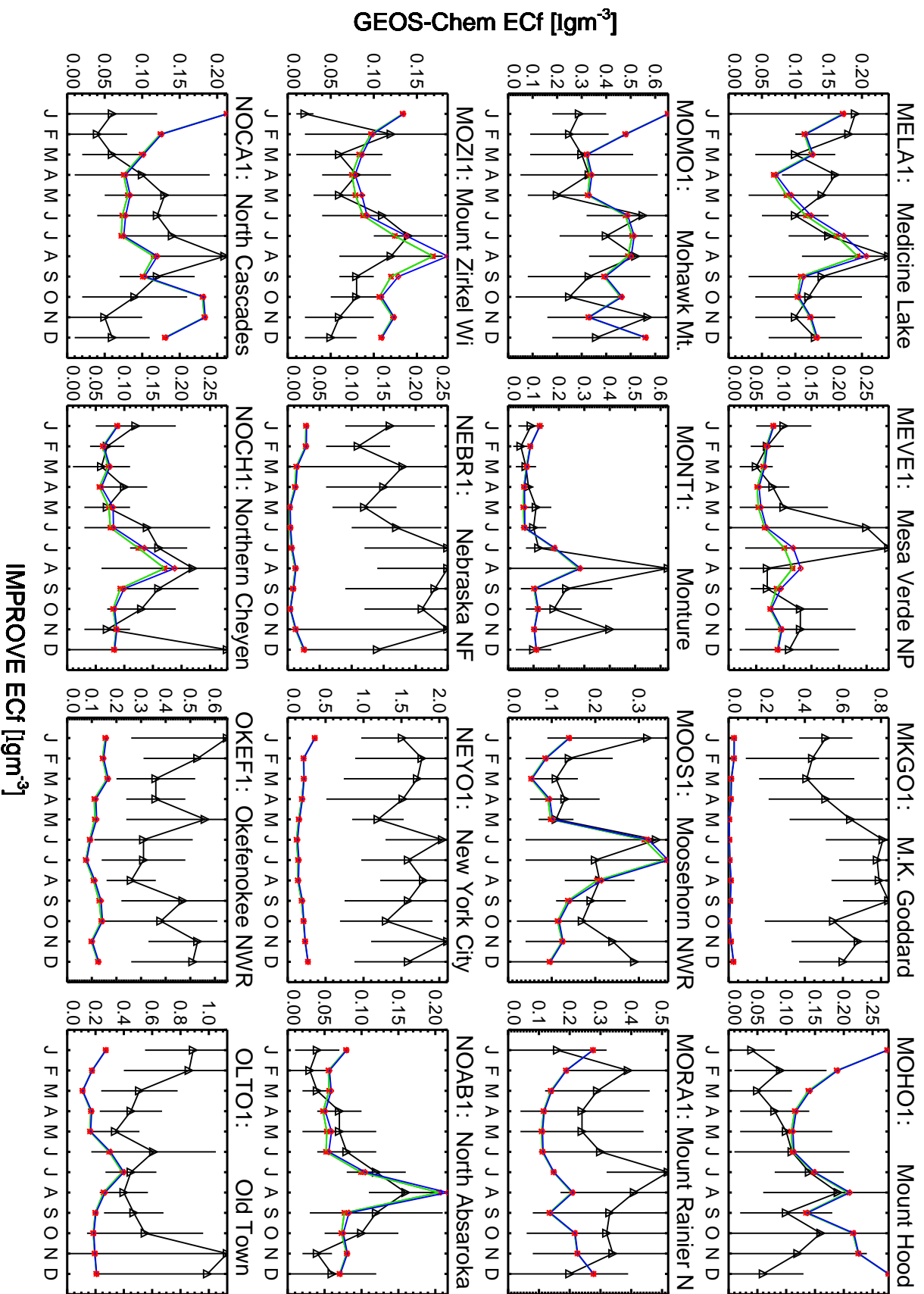


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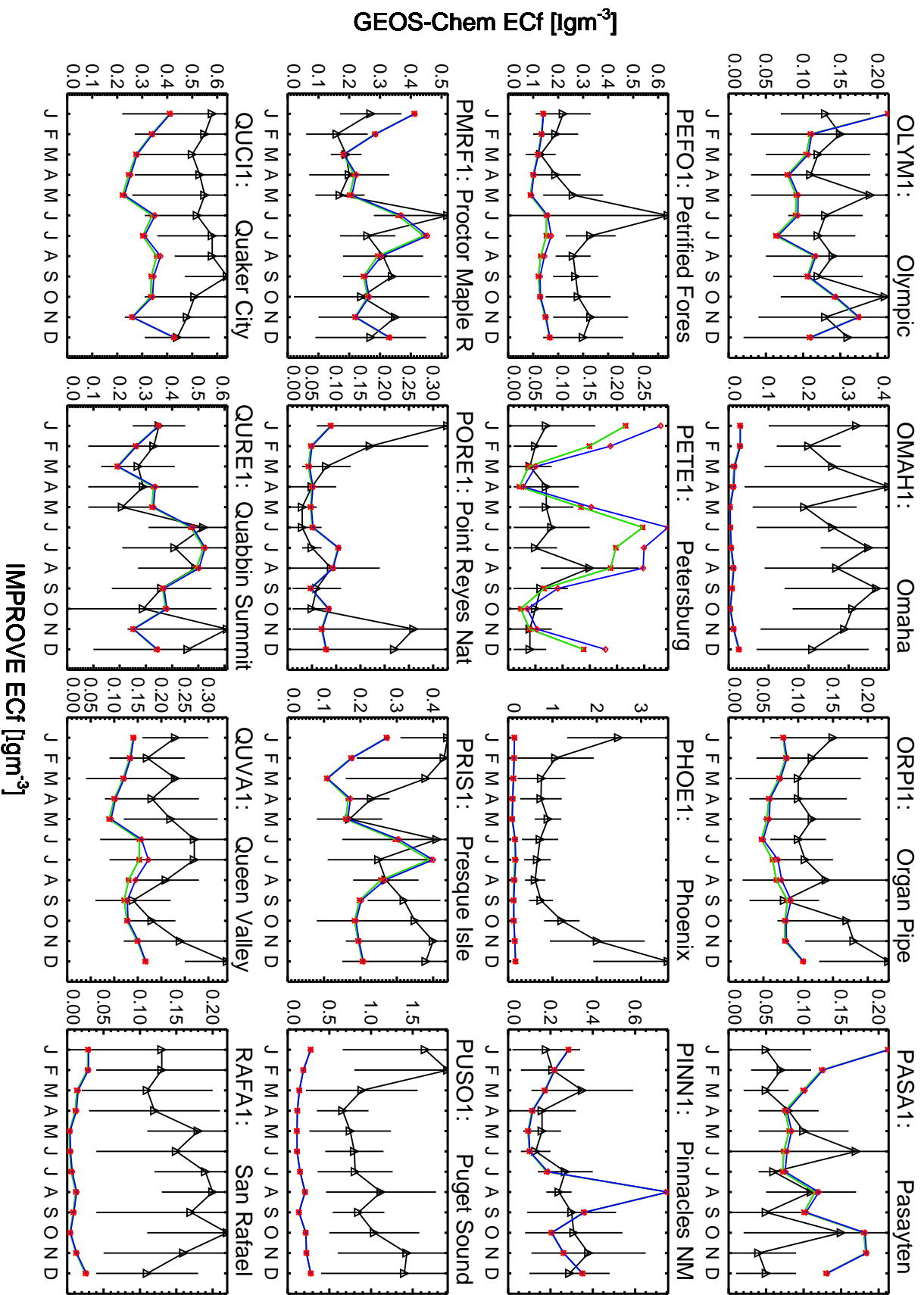


IMPROVE ECf [$\mu\text{g m}^{-3}$]

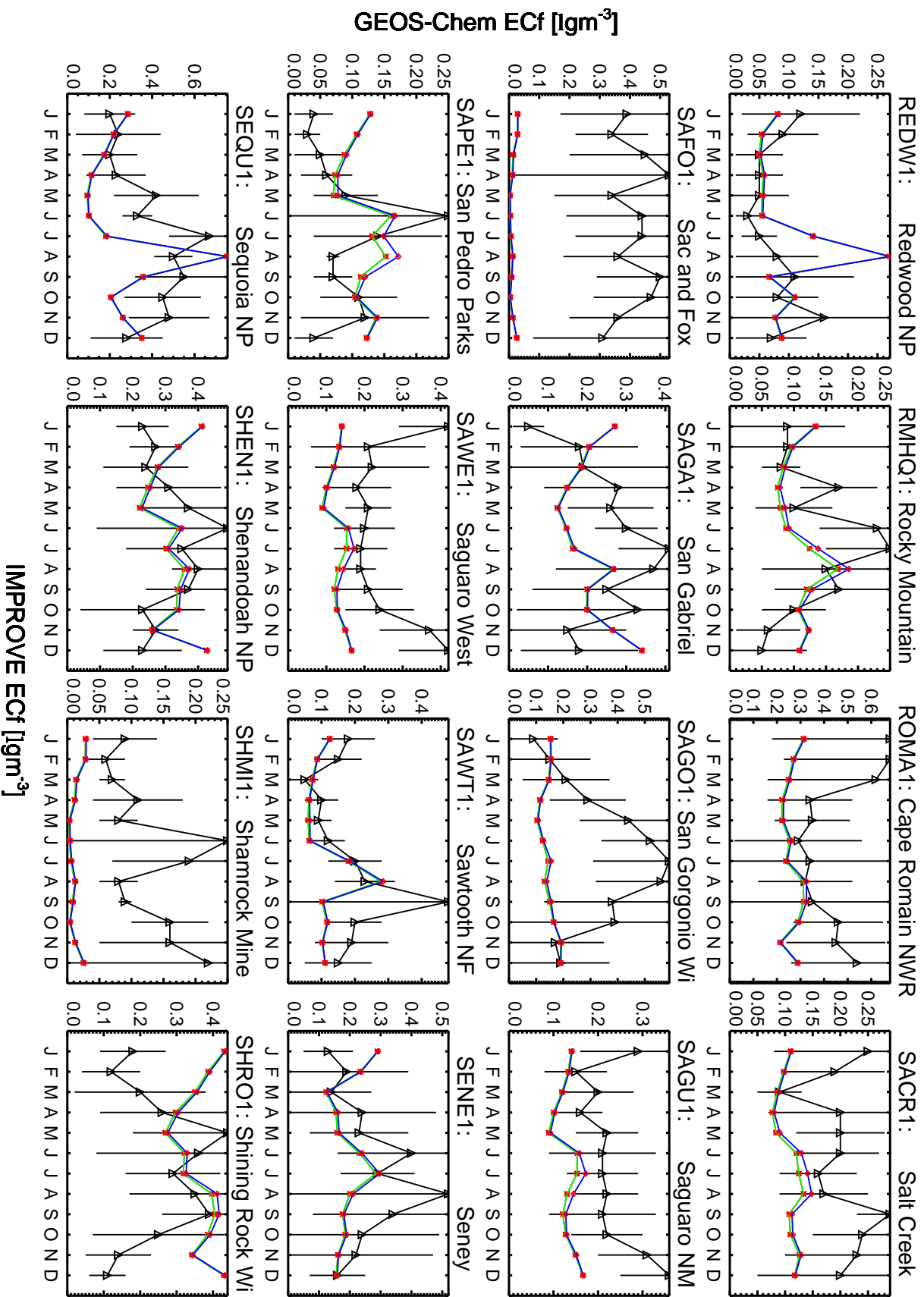
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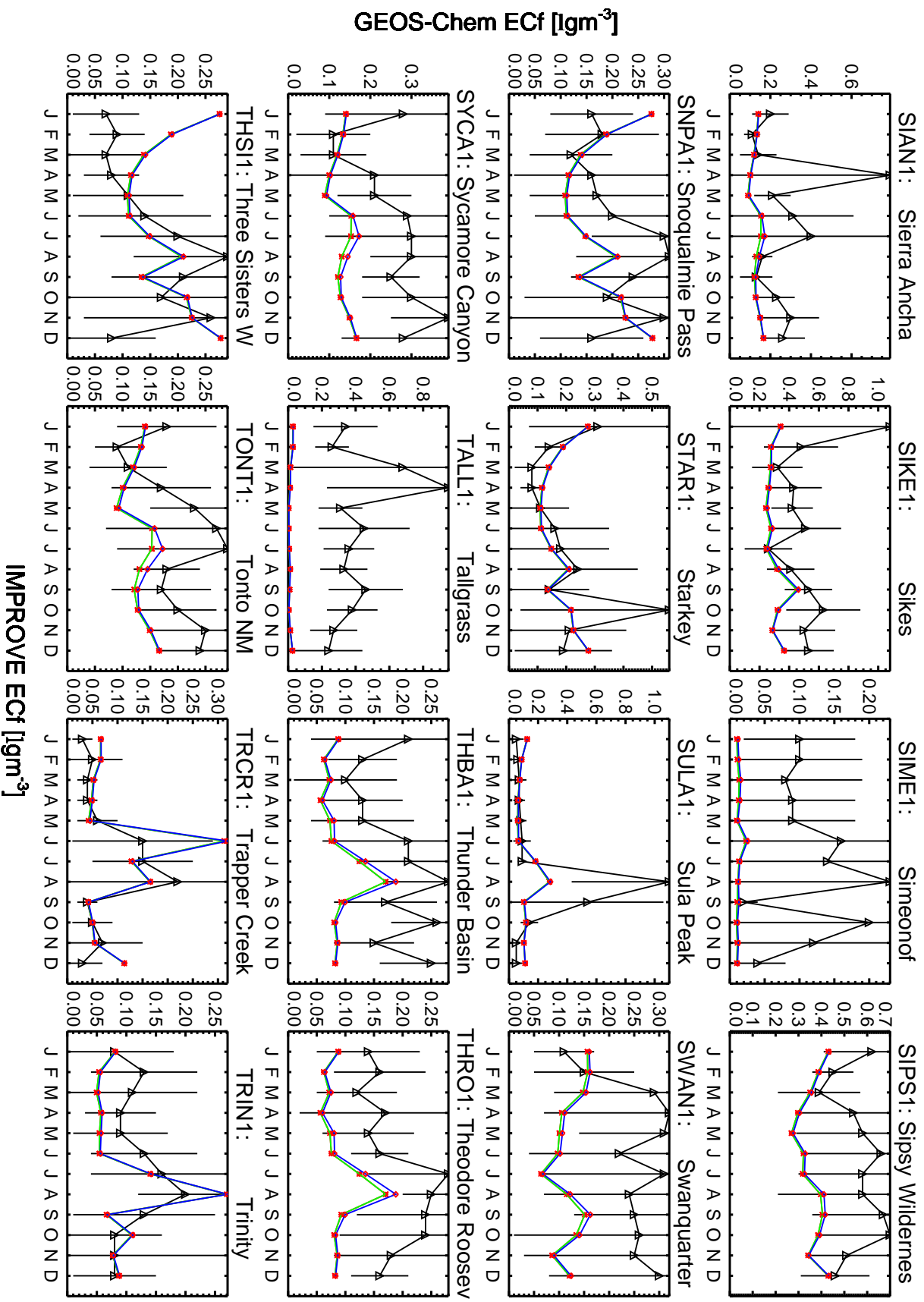
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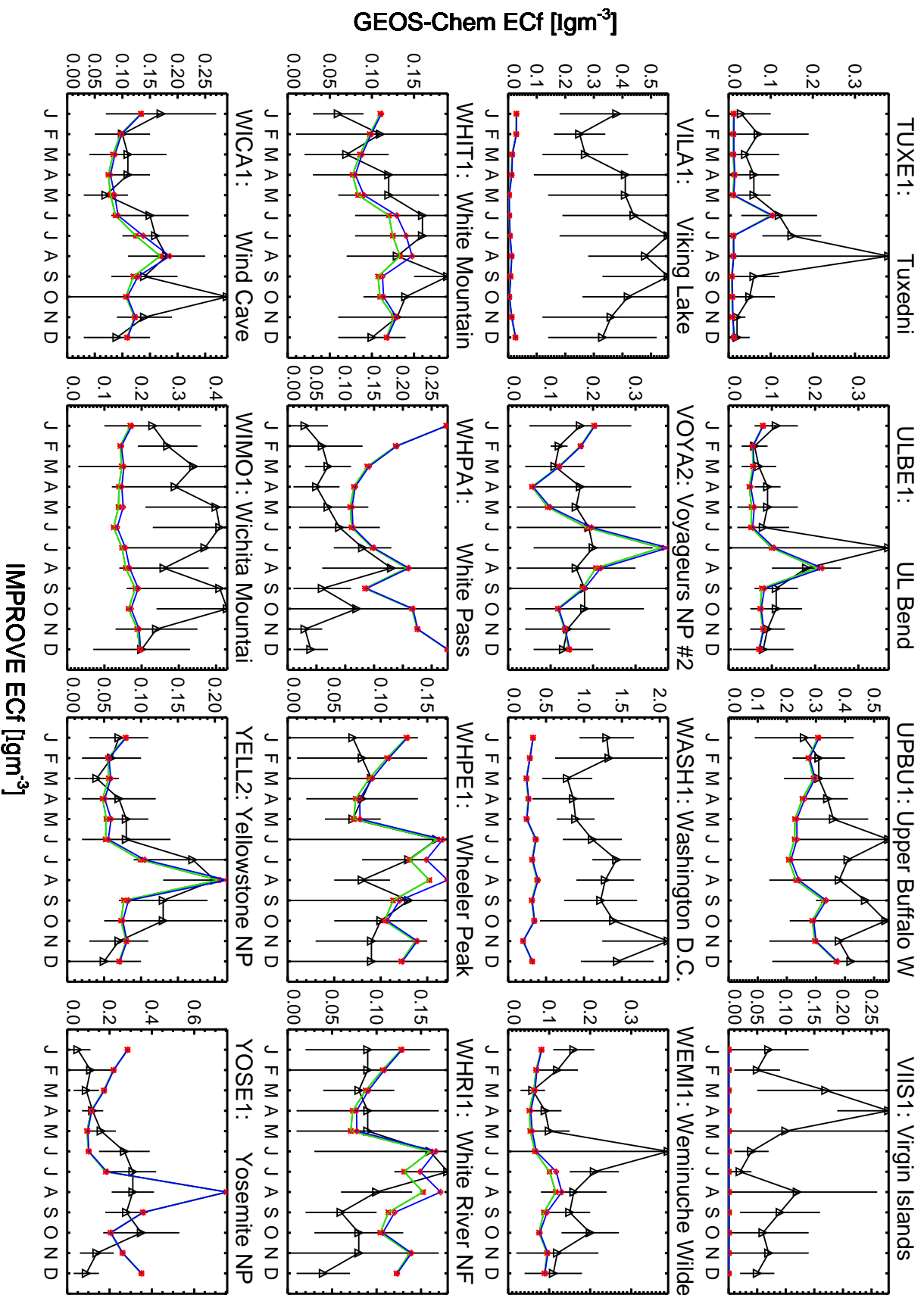
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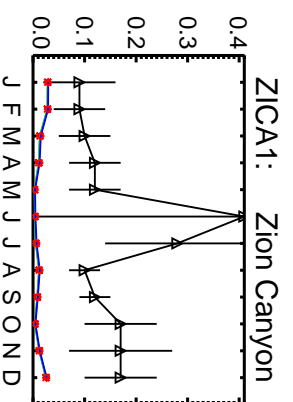
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Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



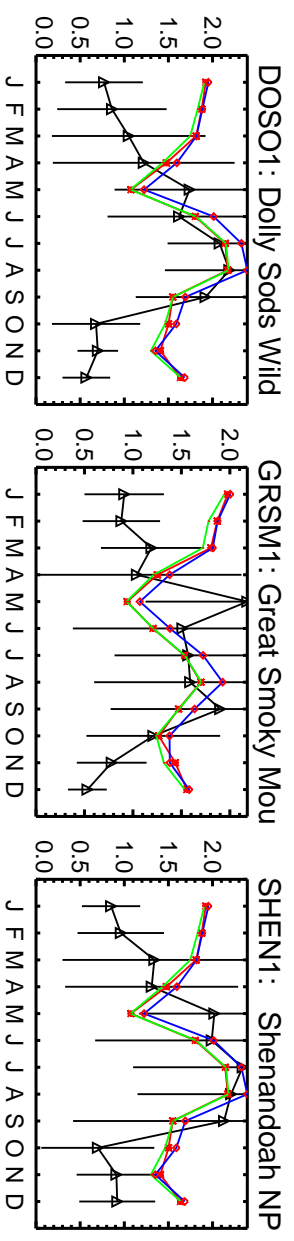
Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



GEOS-Chem ECf [μgm^{-3}]

IMPROVE ECf [μgm^{-3}]

Red: v11-01f-geosfp-Run0 (2013); Green: v11-01g-Run0 (2013); Blue: v11-01k-Run0 (2013)



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

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