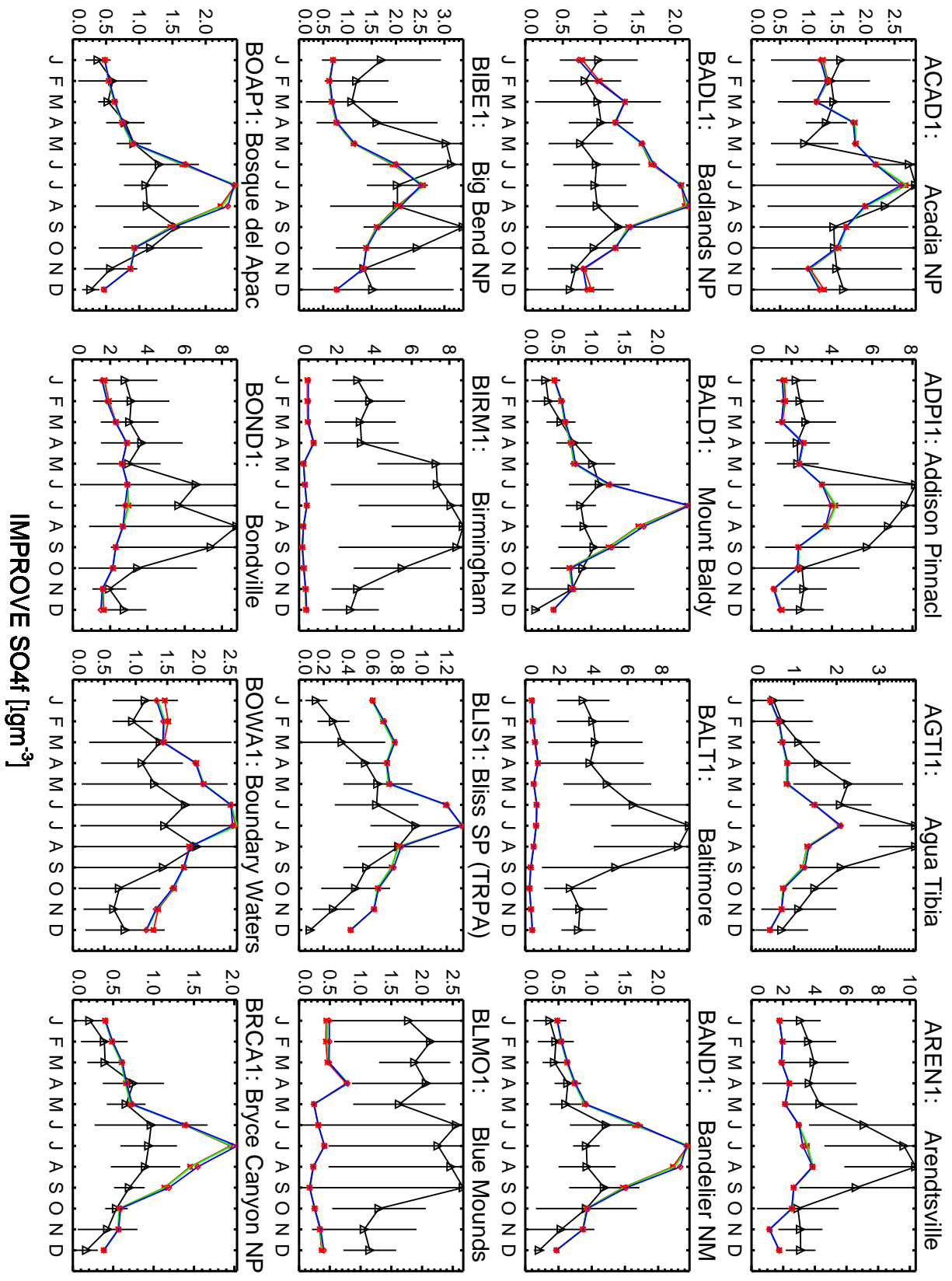


Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

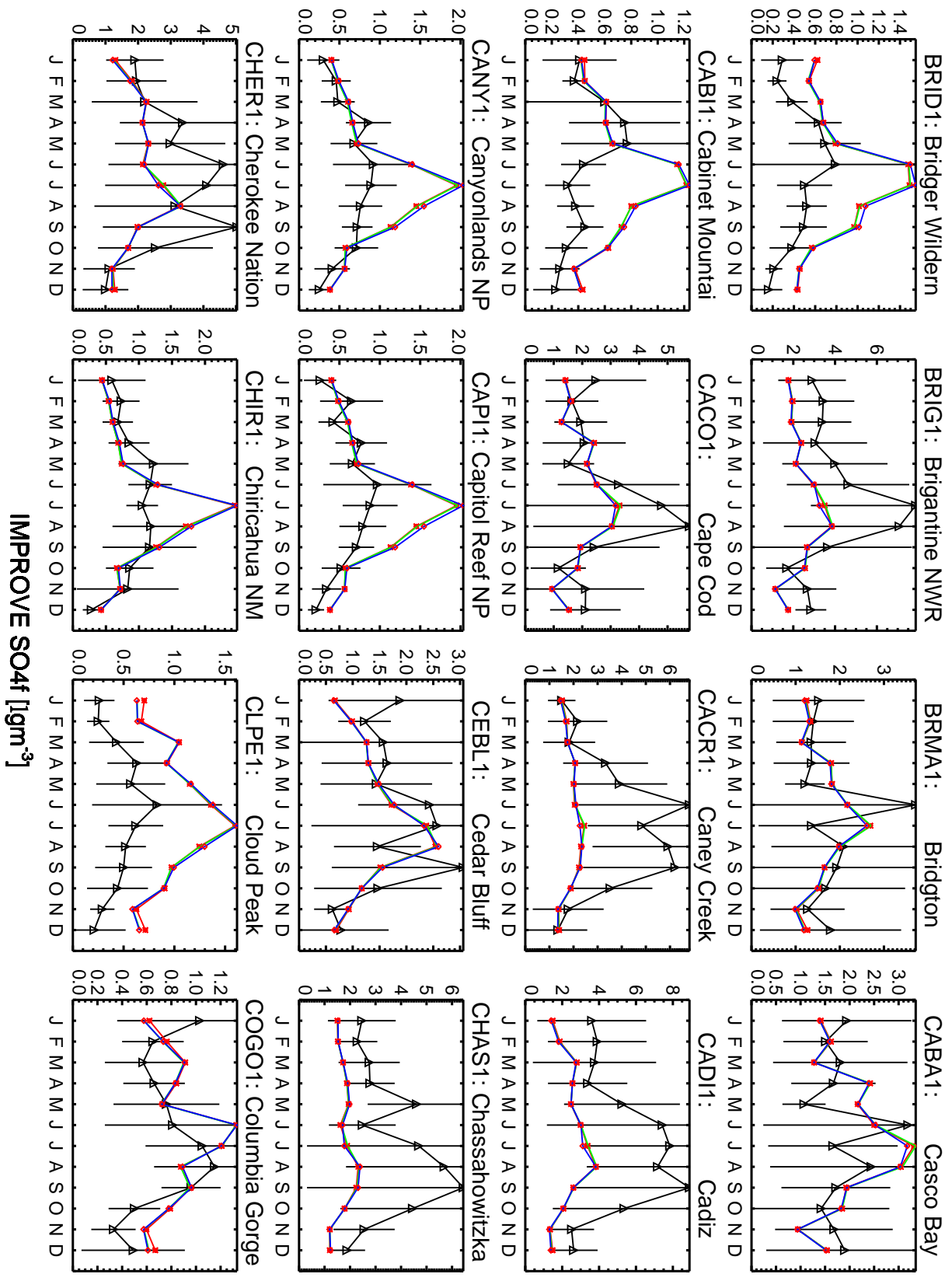
GEOS-Chem SO₄f [lgm⁻³]



IMPROVE SO₄f [lgm⁻³]

Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

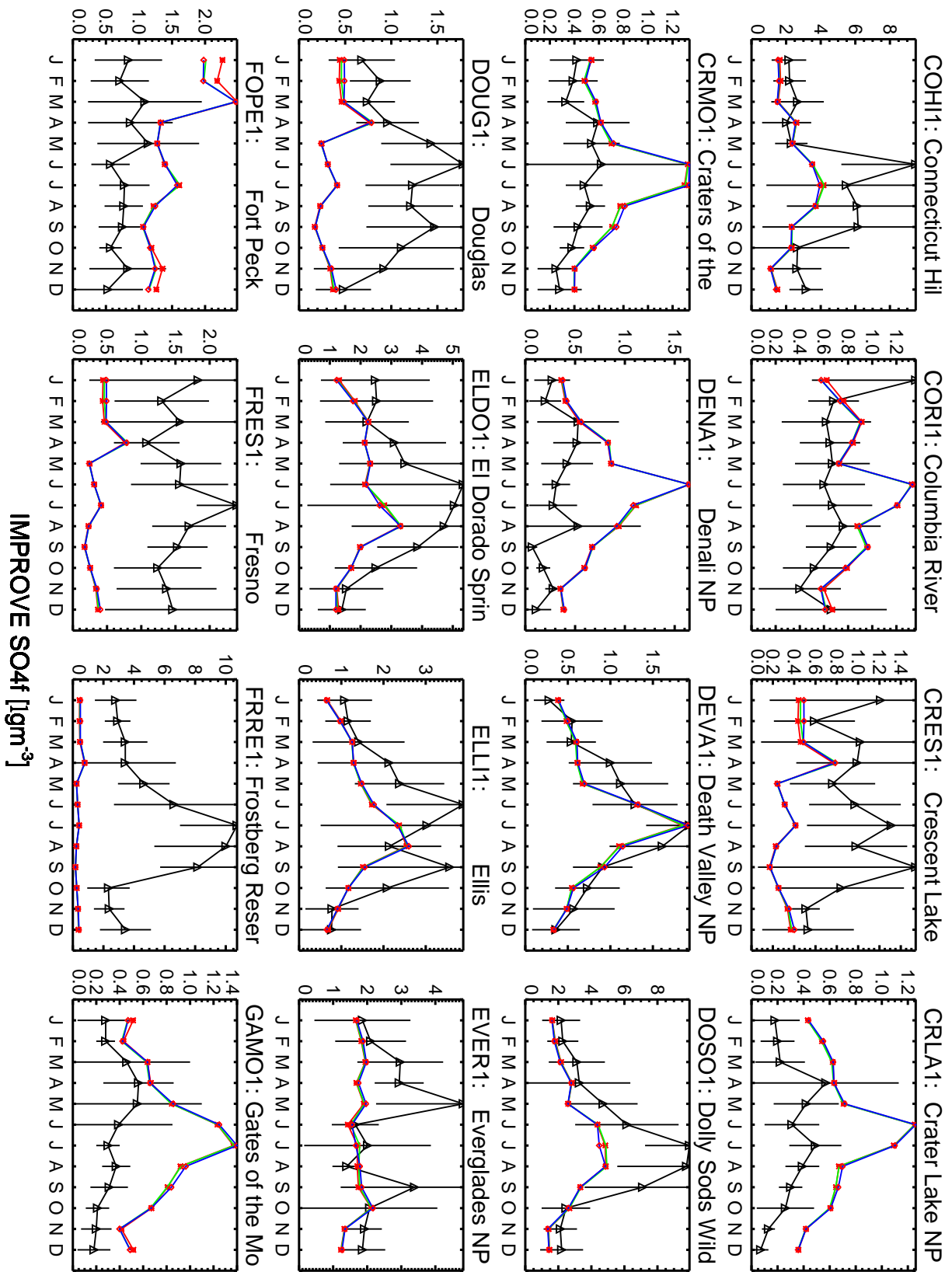
GEOS-Chem SO4f [$\mu\text{g m}^{-3}$]



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

Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

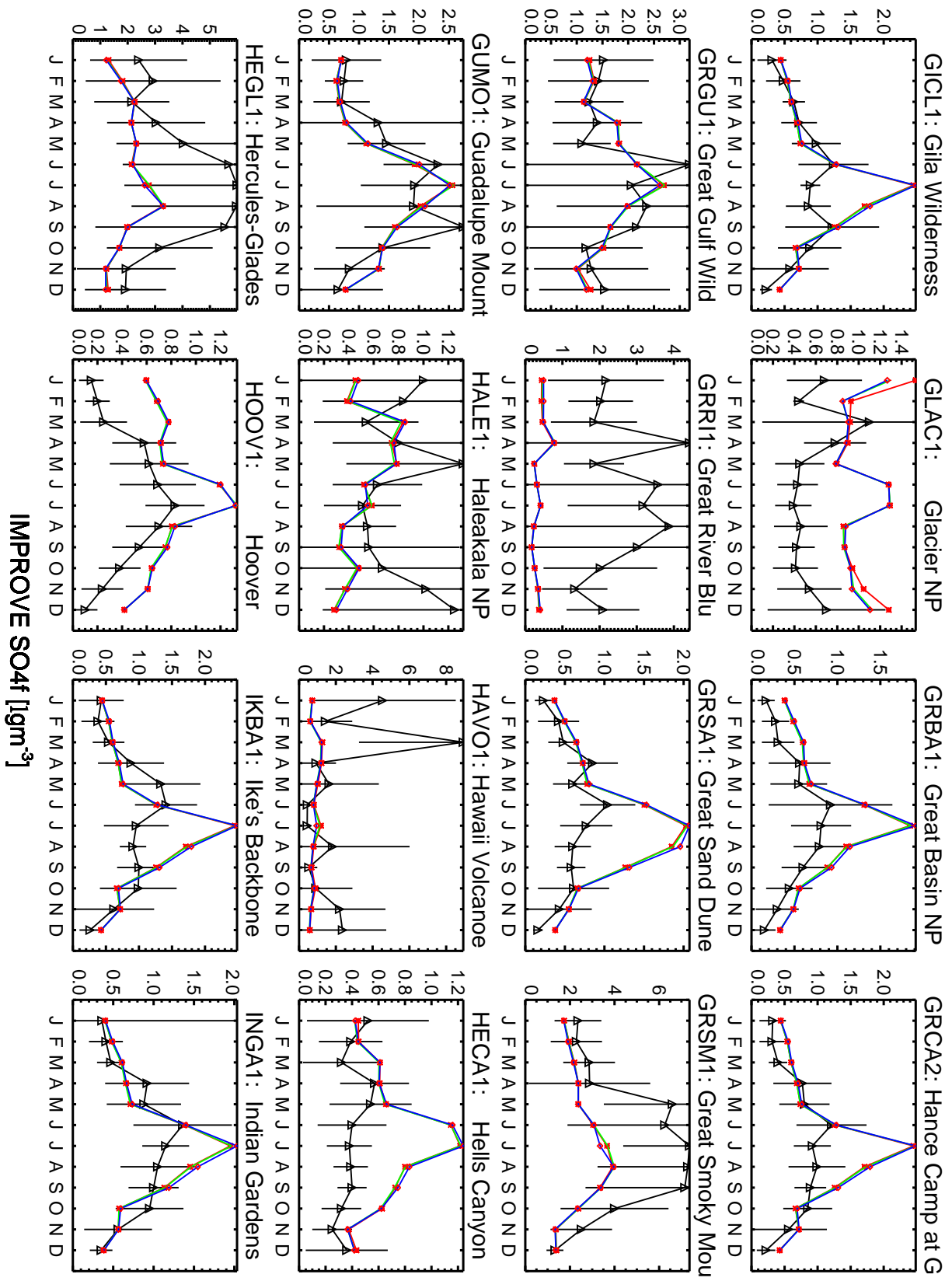
GEOS-Chem SO4f [$\mu\text{g m}^{-3}$]



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

Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

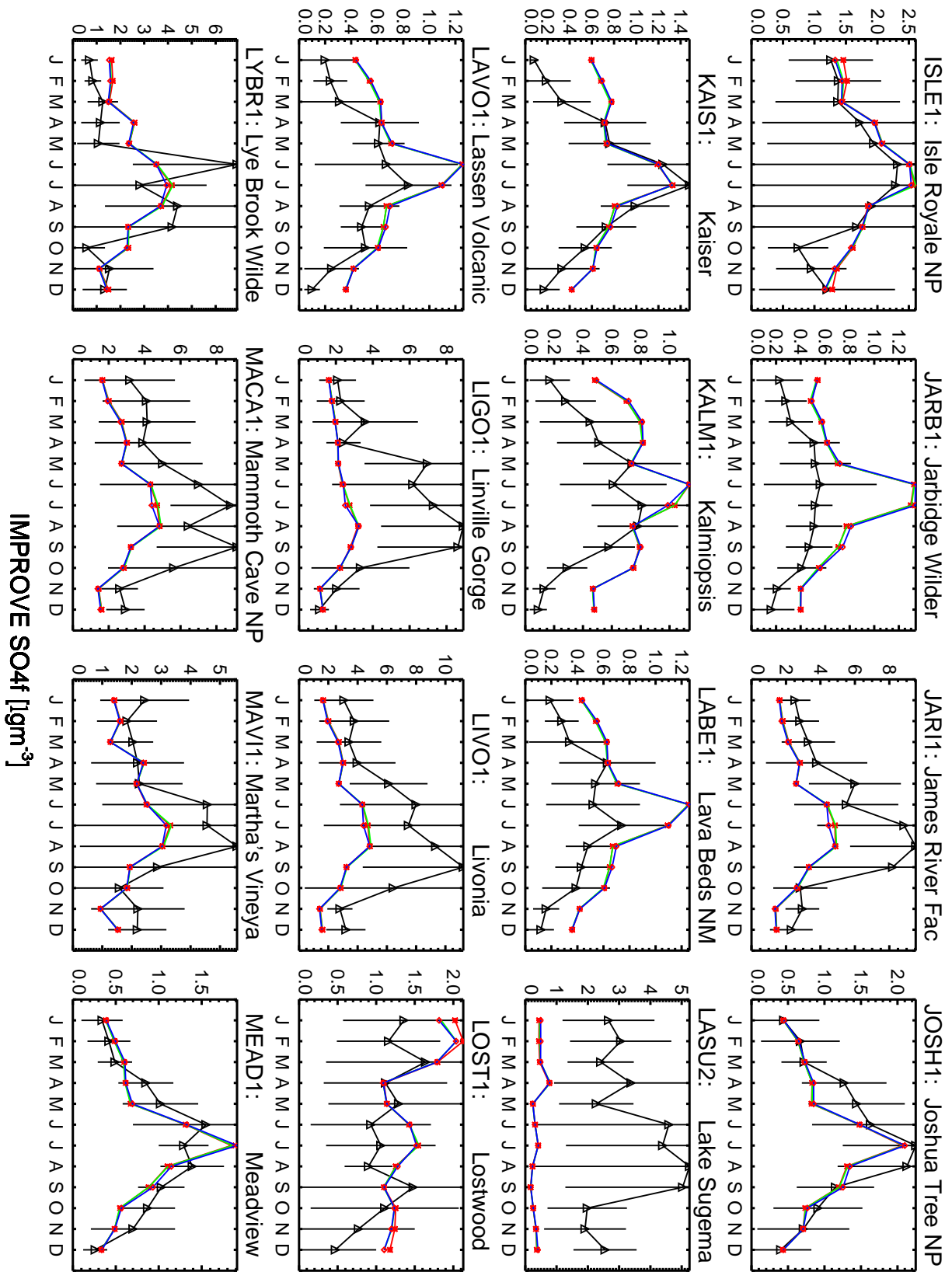
GEOS-Chem SO4f [$\mu\text{g m}^{-3}$]



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

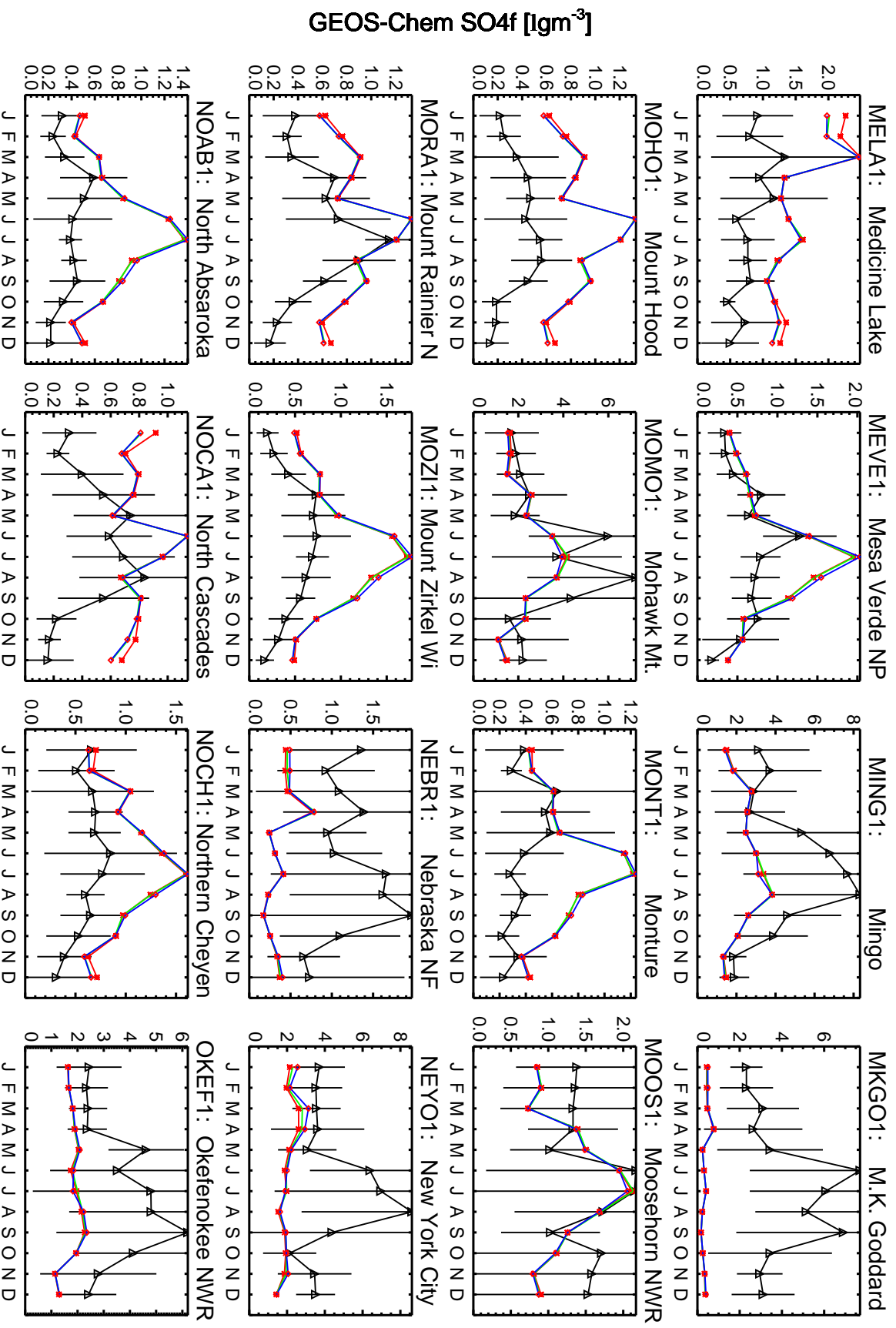
Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

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



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

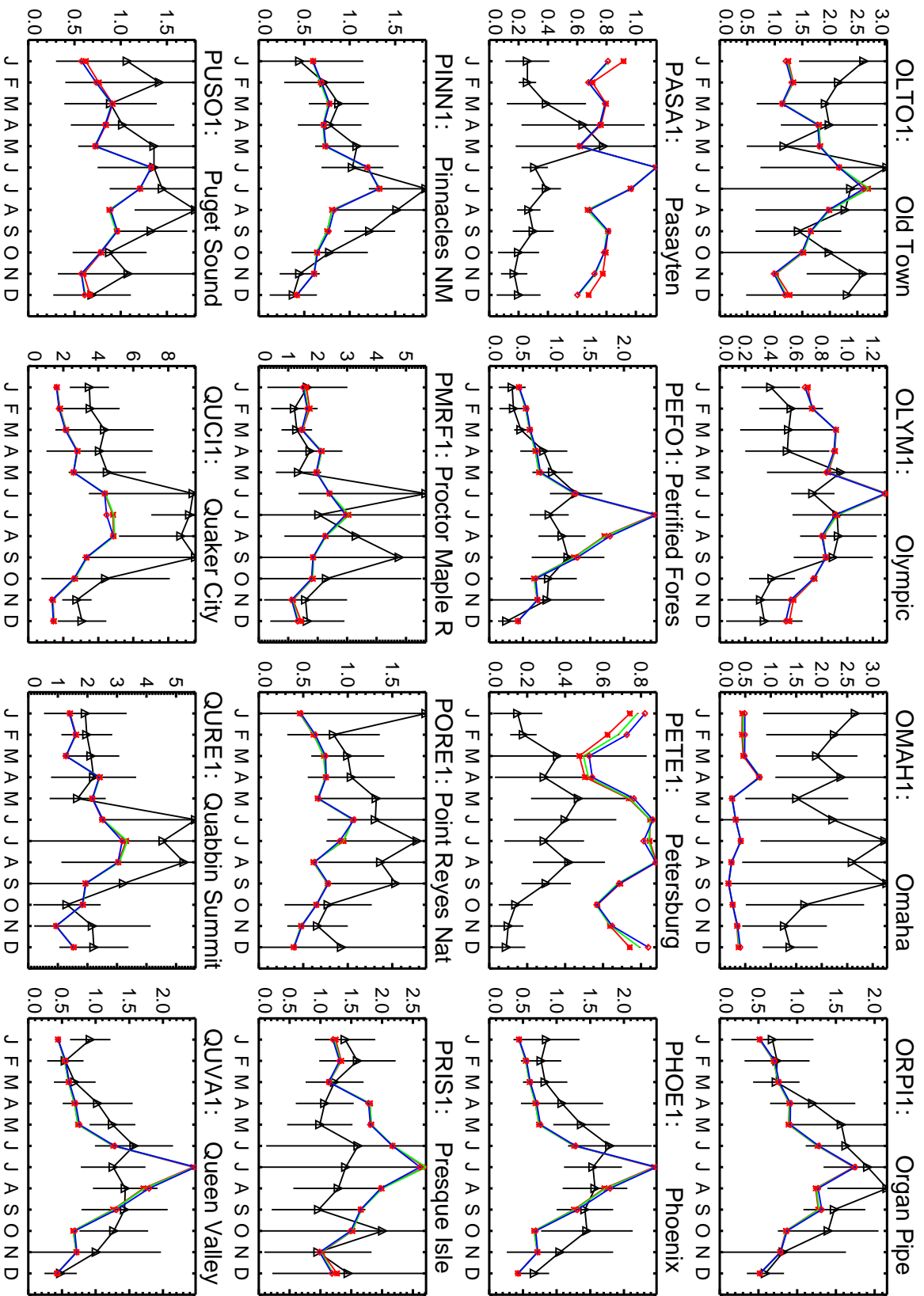
Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)



IMPROVE SO4f [lgm⁻³]

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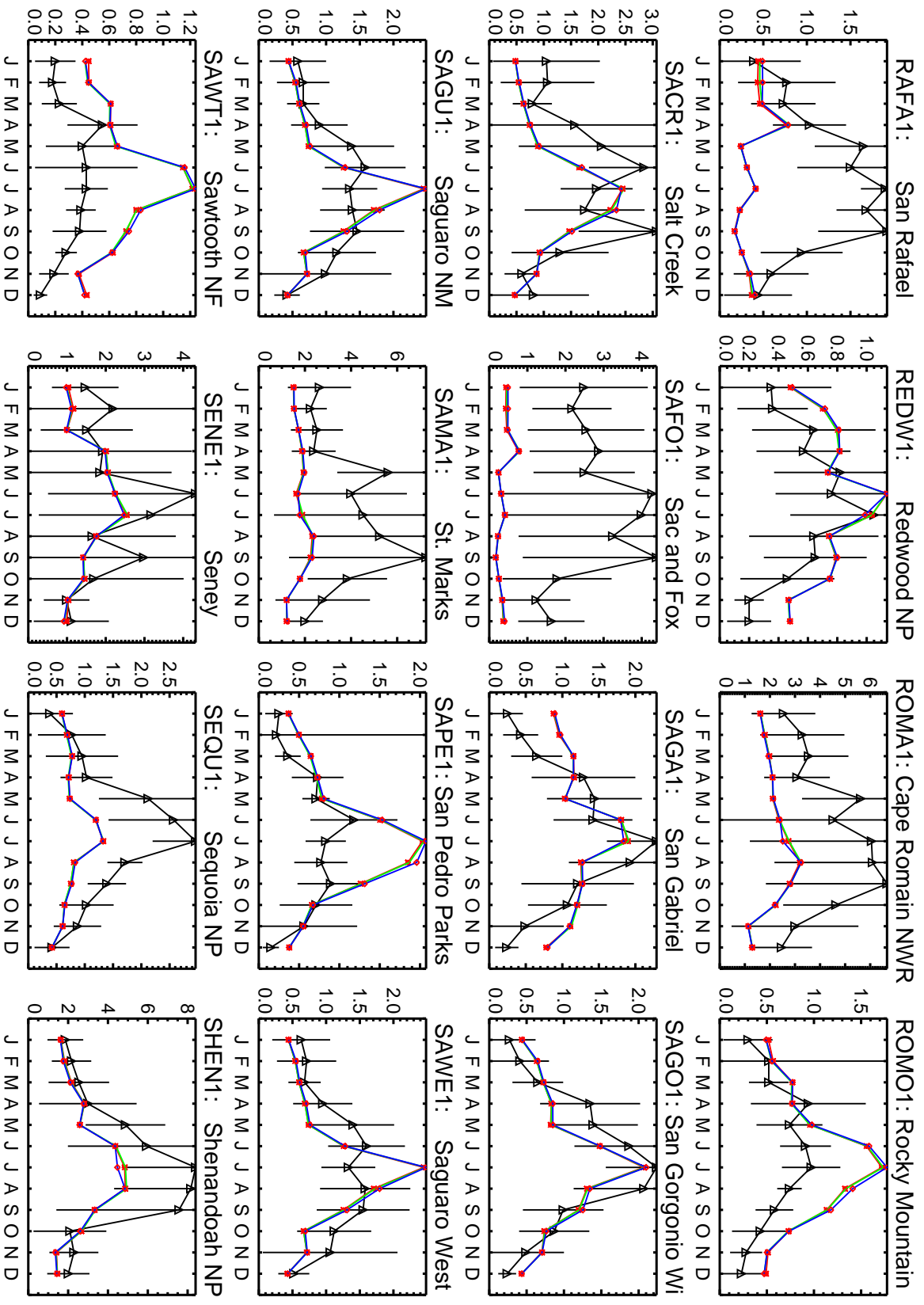
GEOS-Chem SO₄f [lgm⁻³]



IMPROVE SO₄f [lgm⁻³]

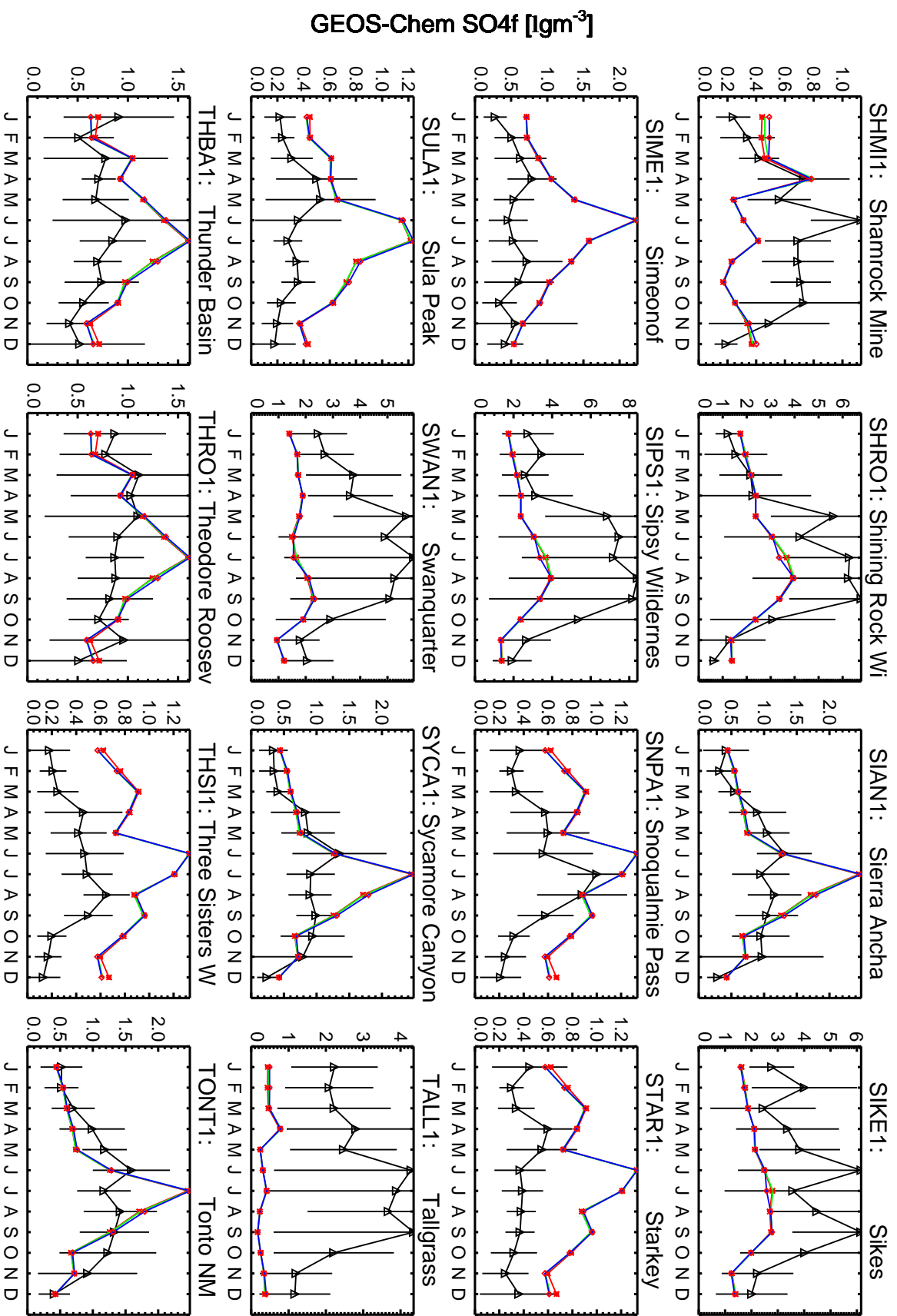
Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

GEOS-Chem SO₄f [lgm⁻³]



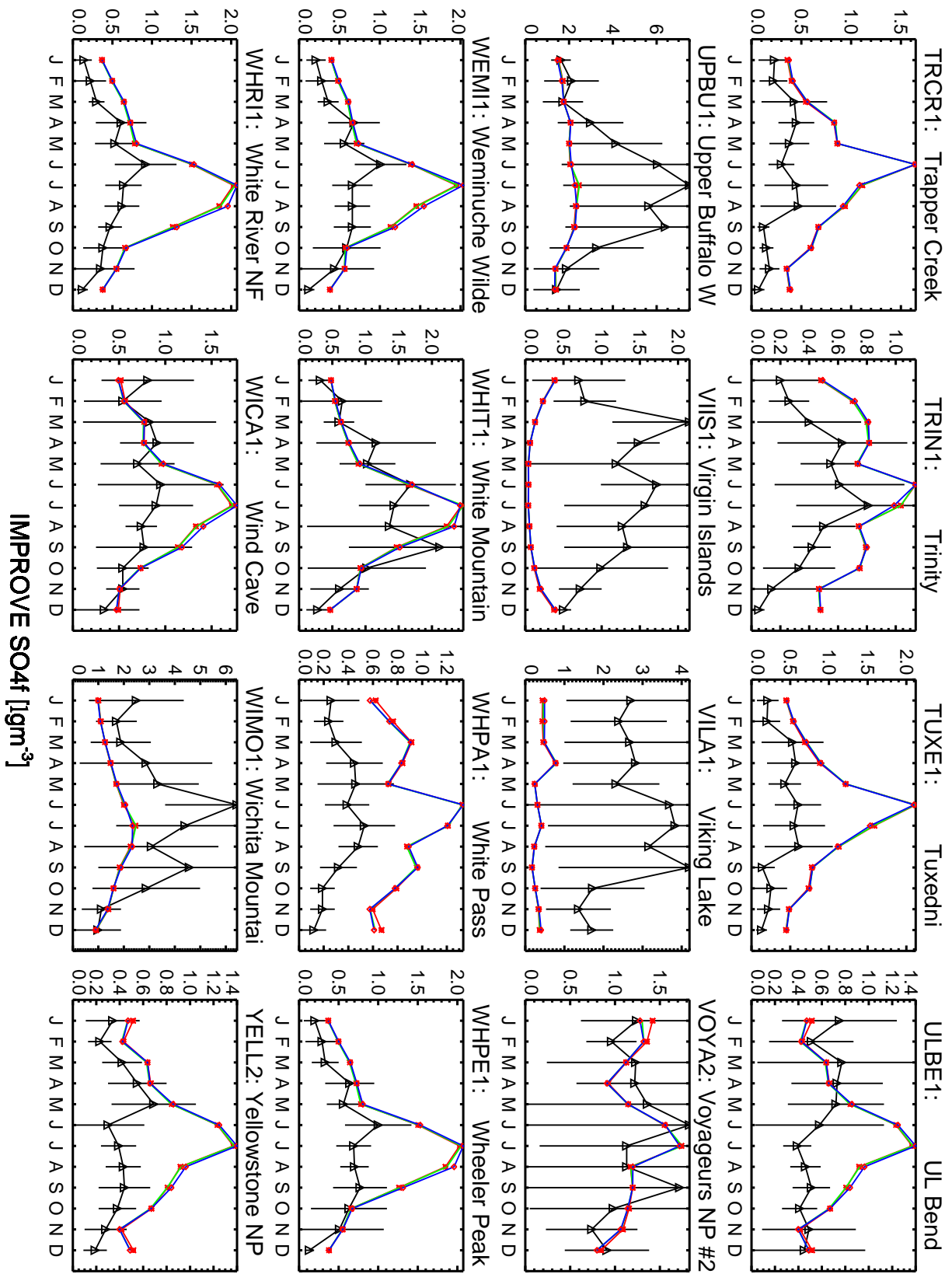
IMPROVE SO₄f [lgm⁻³]

Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)



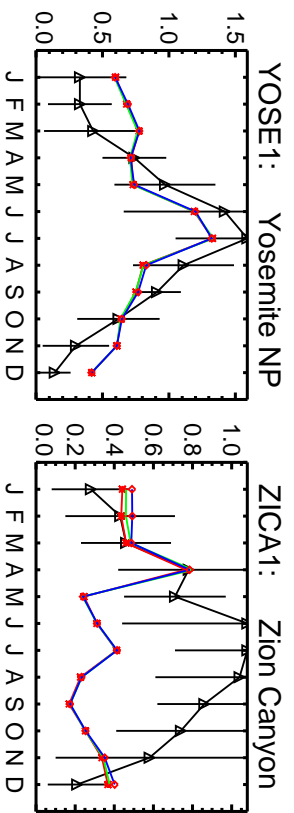
Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

GEOS-Chem SO₄f [lgm⁻³]



IMPROVE SO₄f [lgm⁻³]

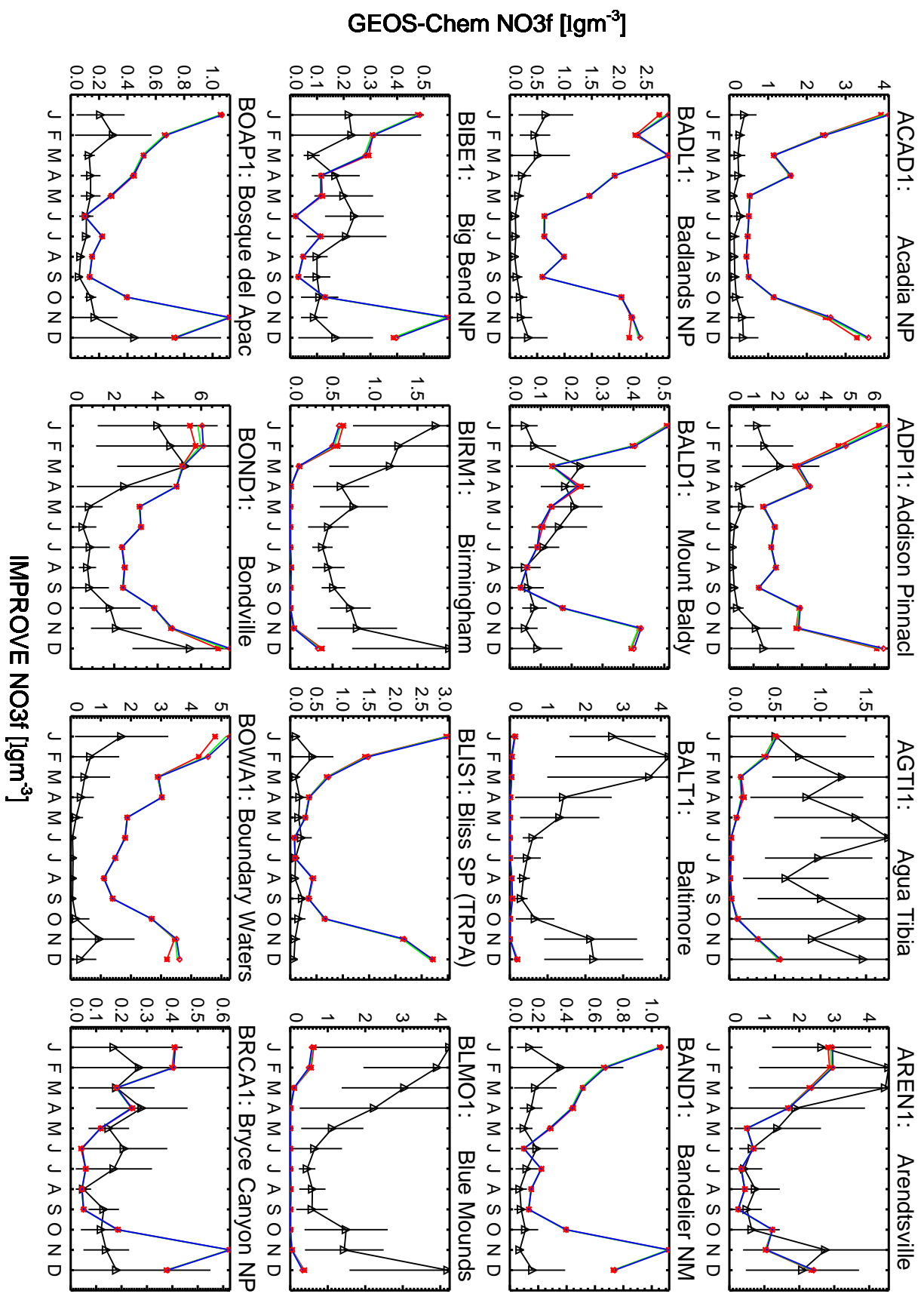
Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)



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

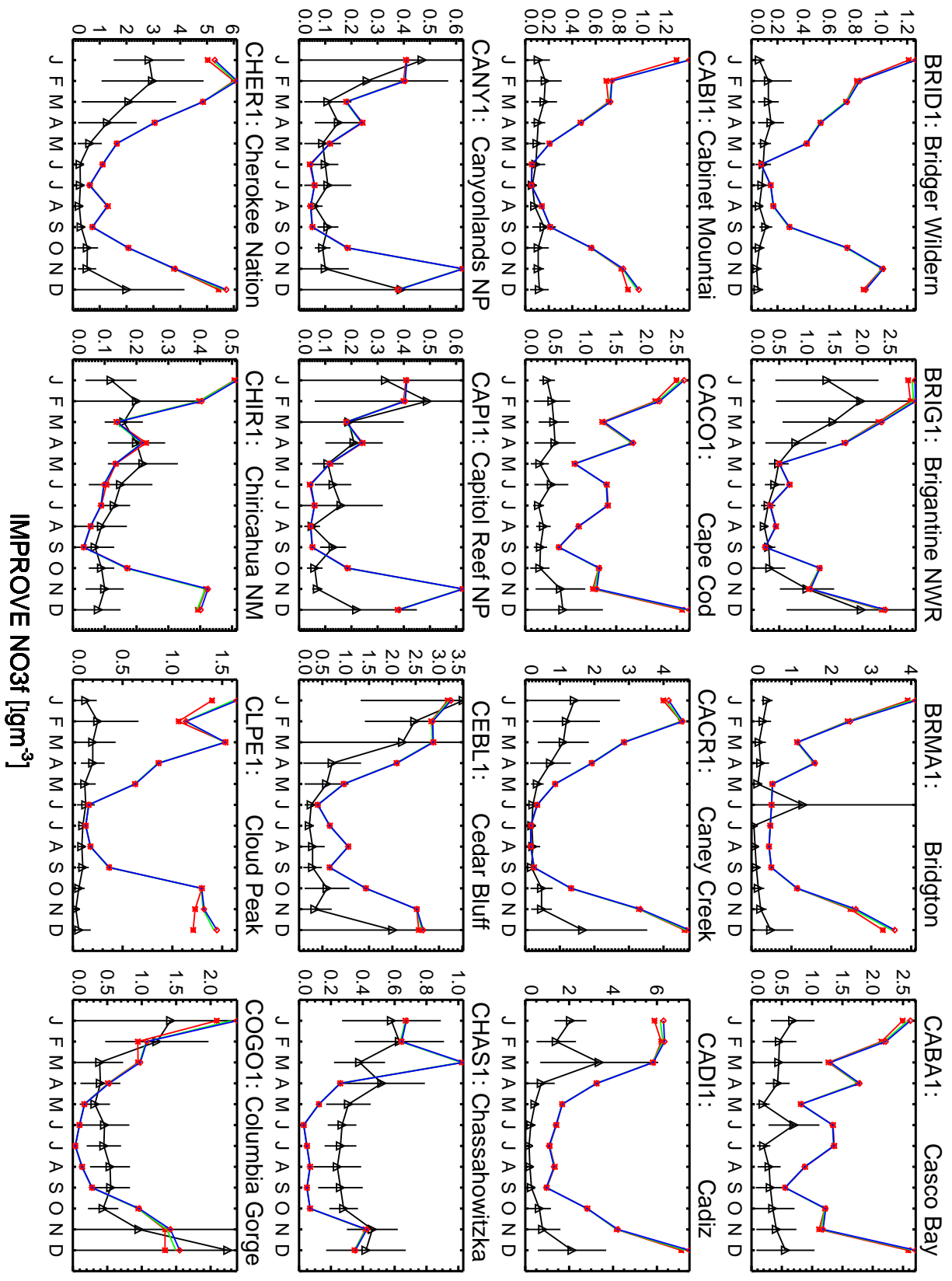
IMPROVE SO4f [$\mu\text{g m}^{-3}$]

Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)



Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

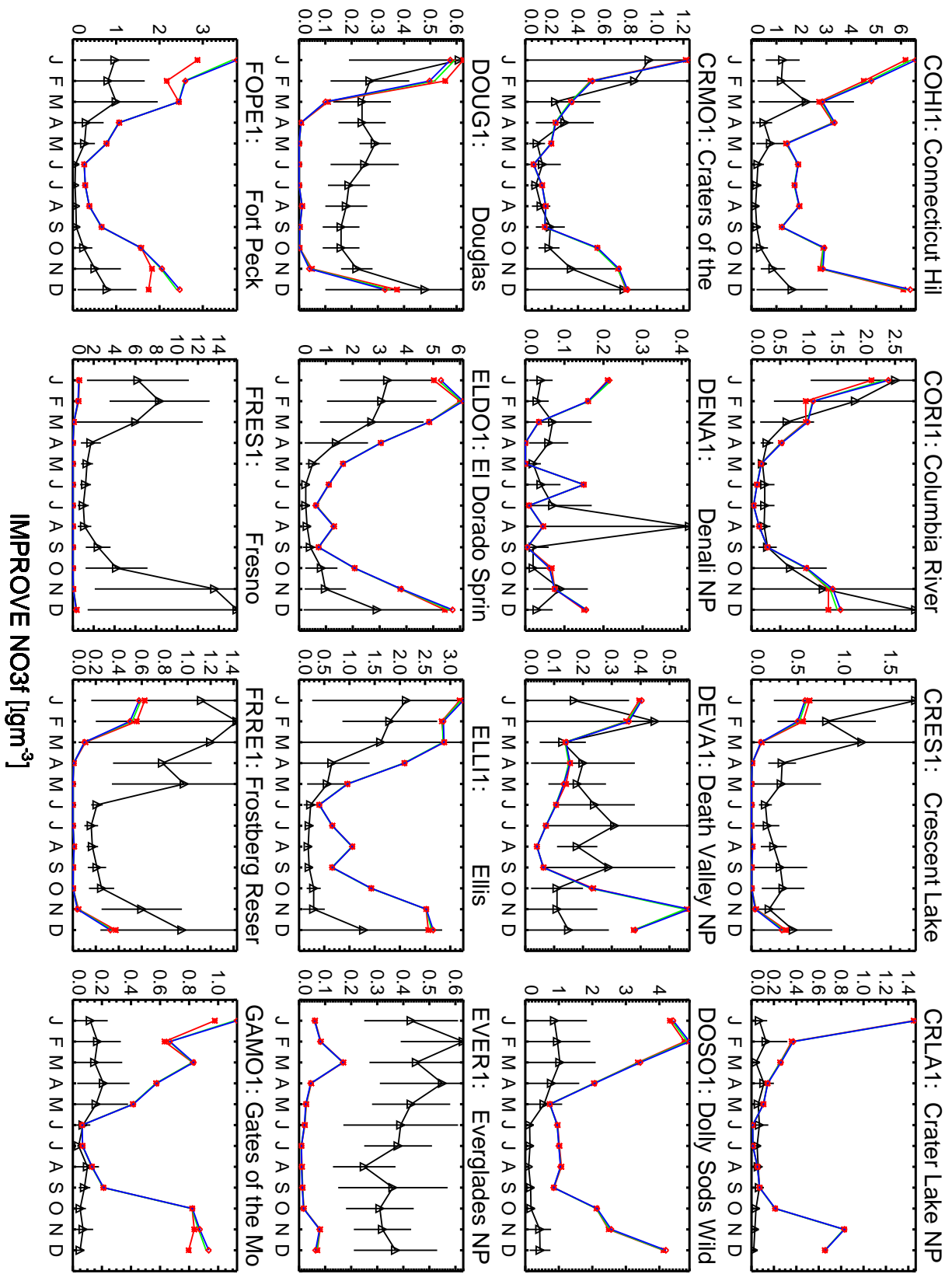
GEOS-Chem NO₃f [$\mu\text{g m}^{-3}$]



IMPROVE NO₃f [$\mu\text{g m}^{-3}$]

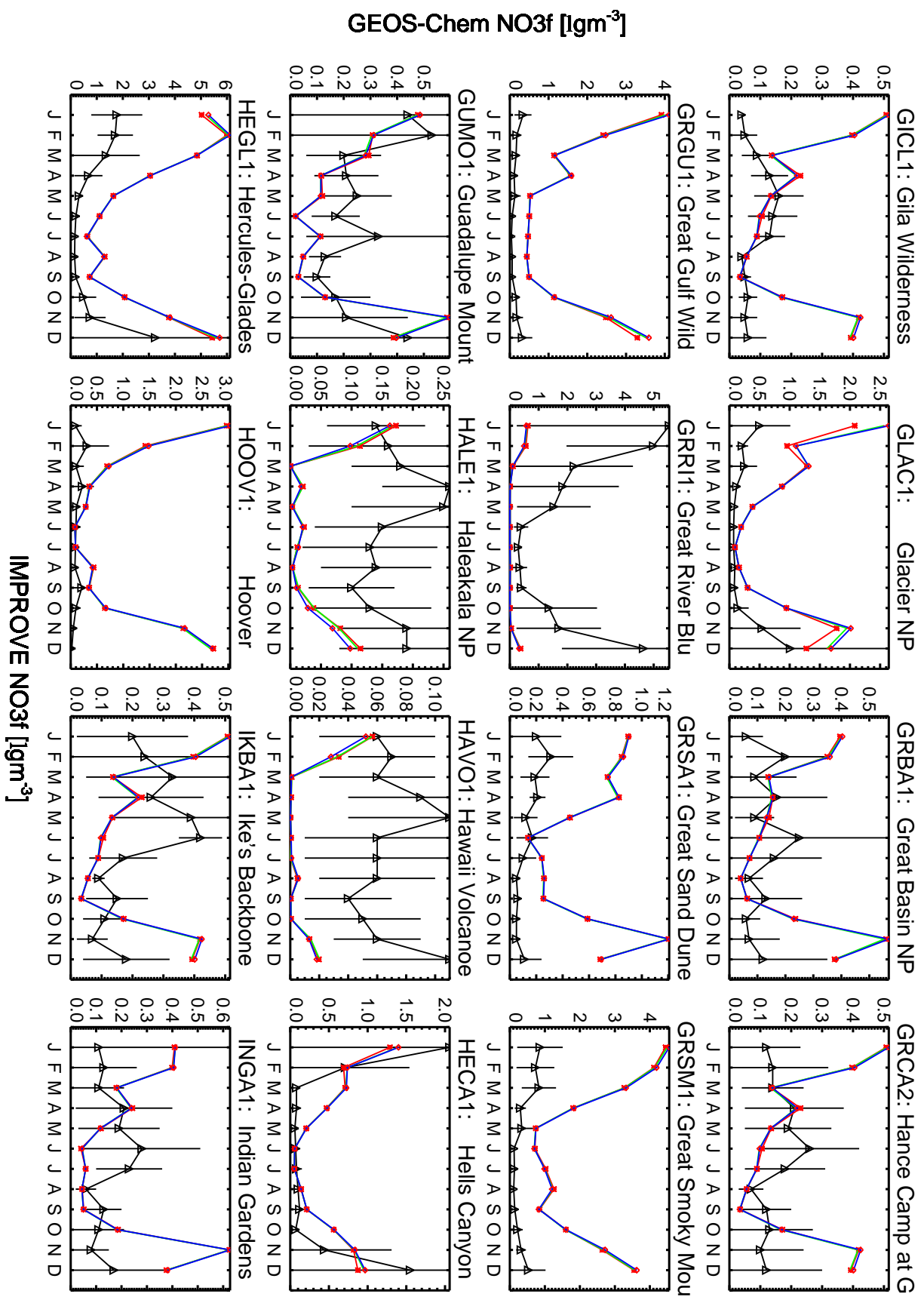
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GEOS-Chem NO3f [$\mu\text{g m}^{-3}$]



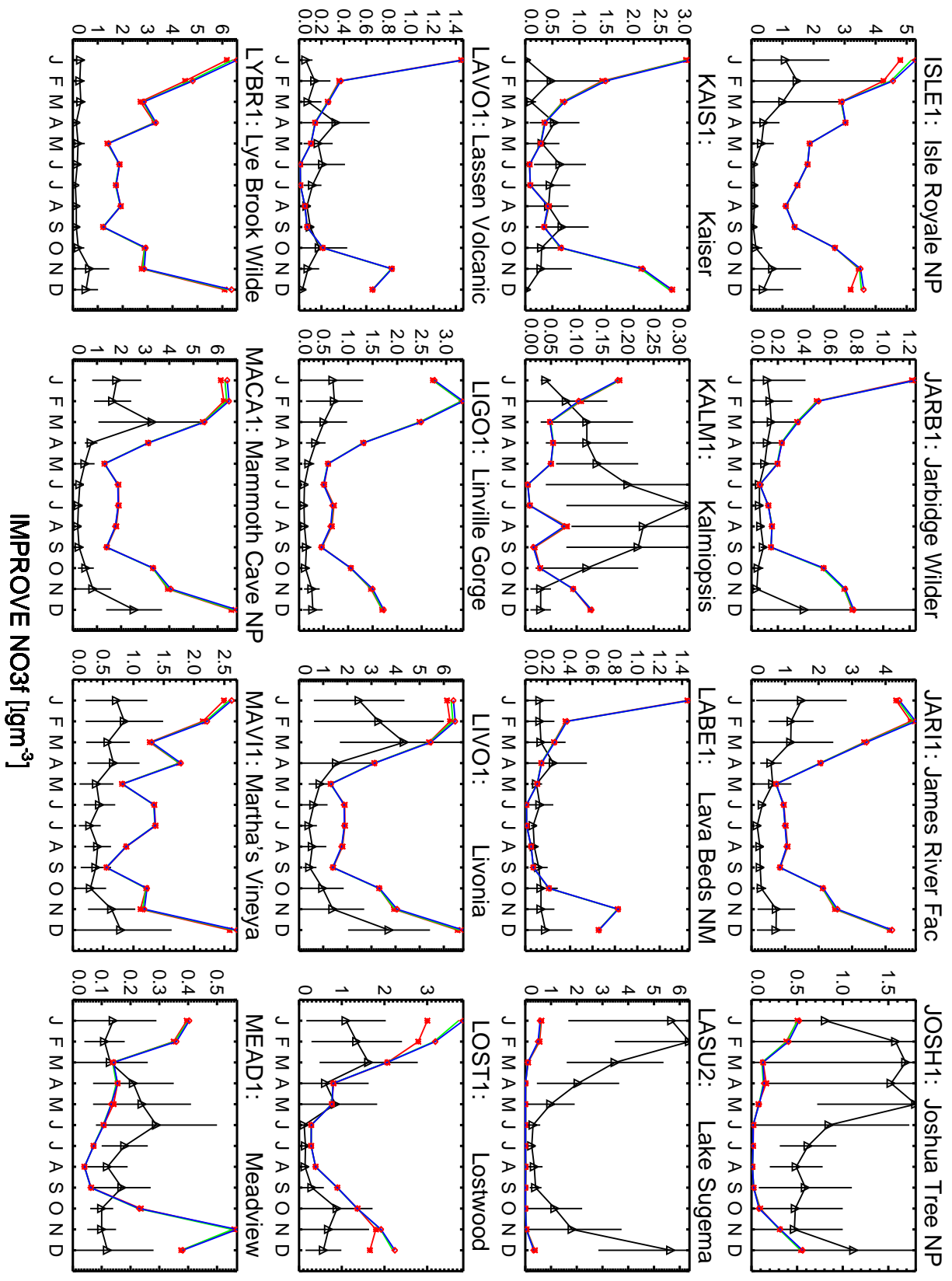
IMPROVE NO3f [$\mu\text{g m}^{-3}$]

Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)



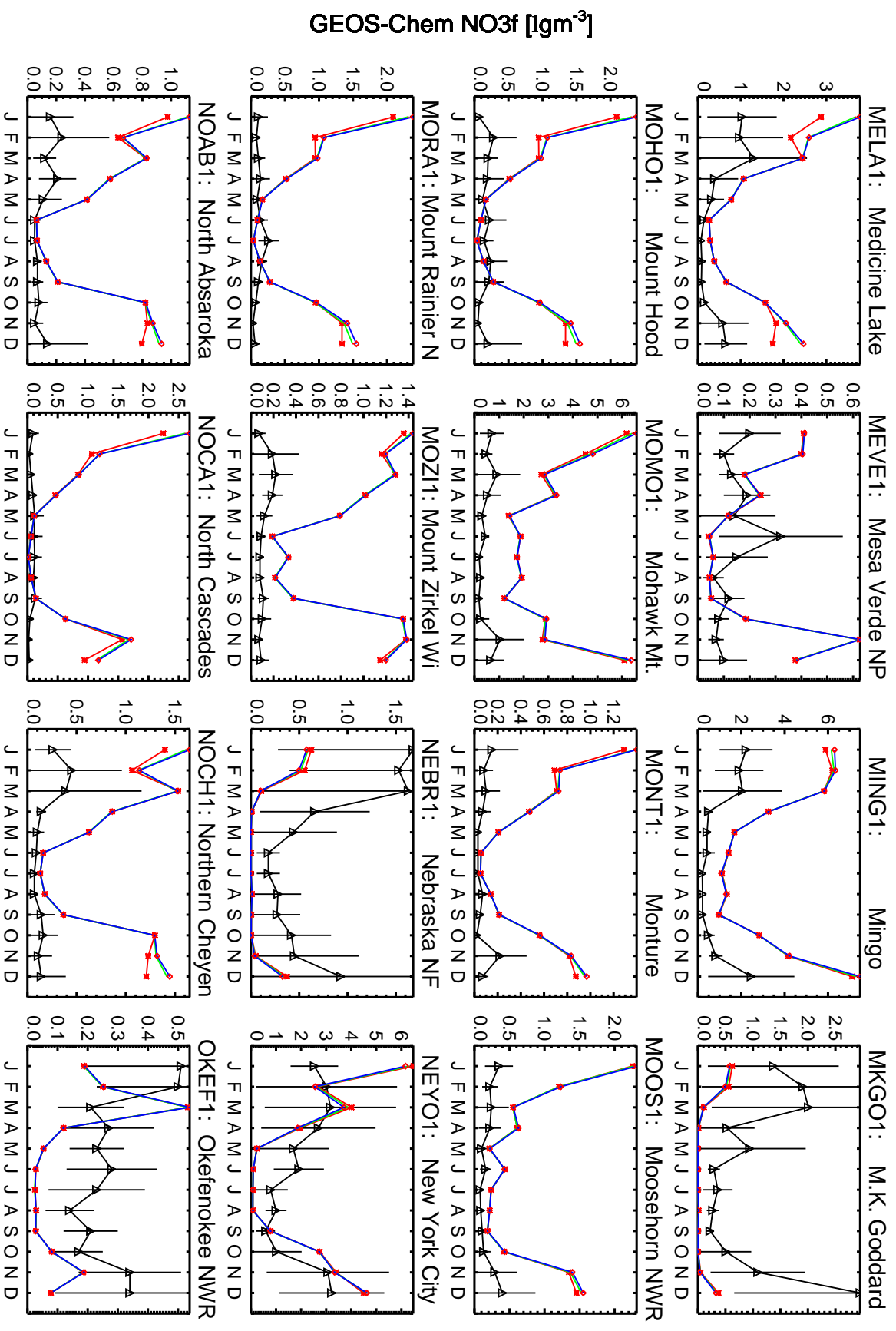
Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

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



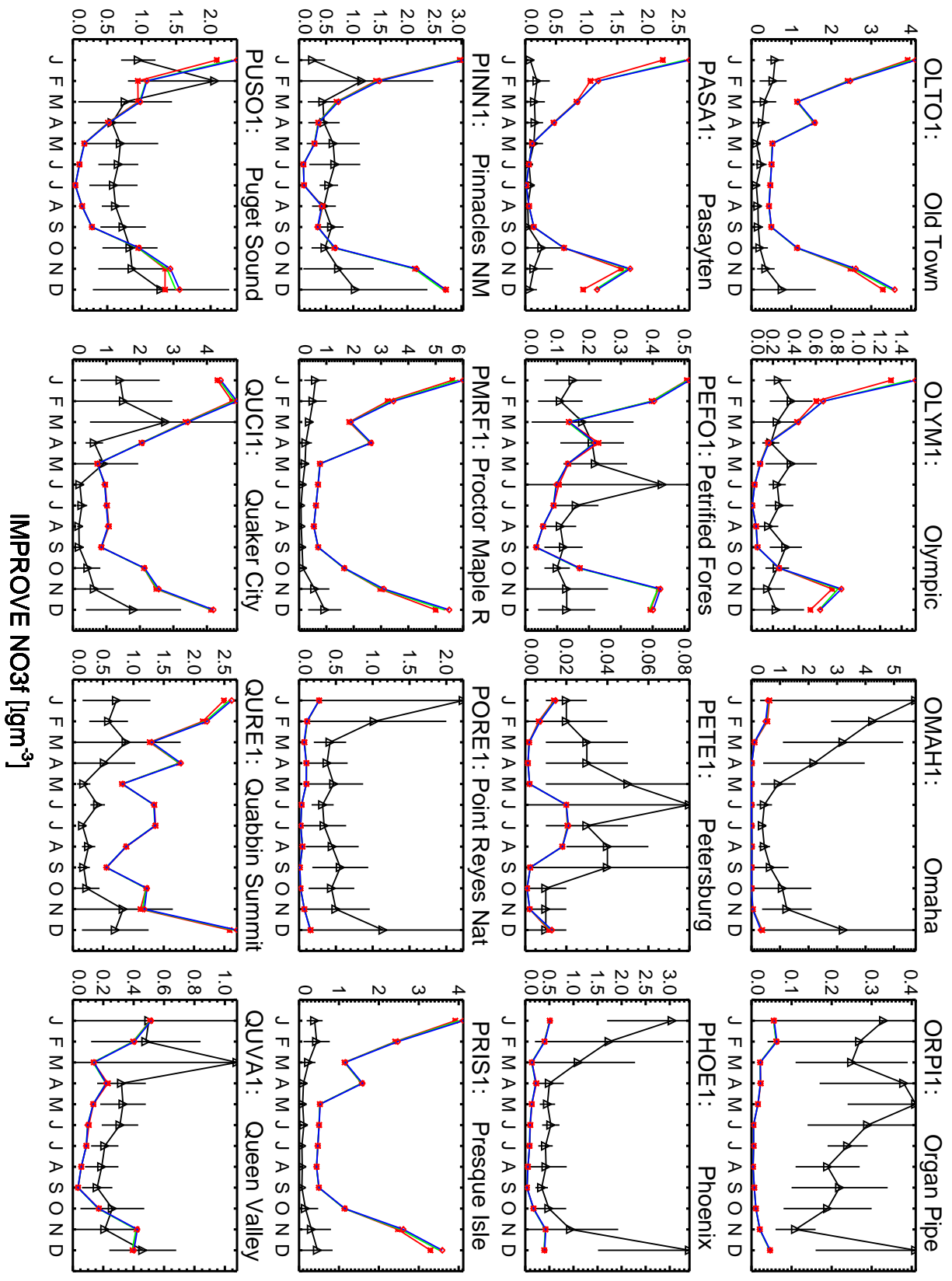
IMPROVE NO3f [$\mu\text{g m}^{-3}$]

Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)



Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

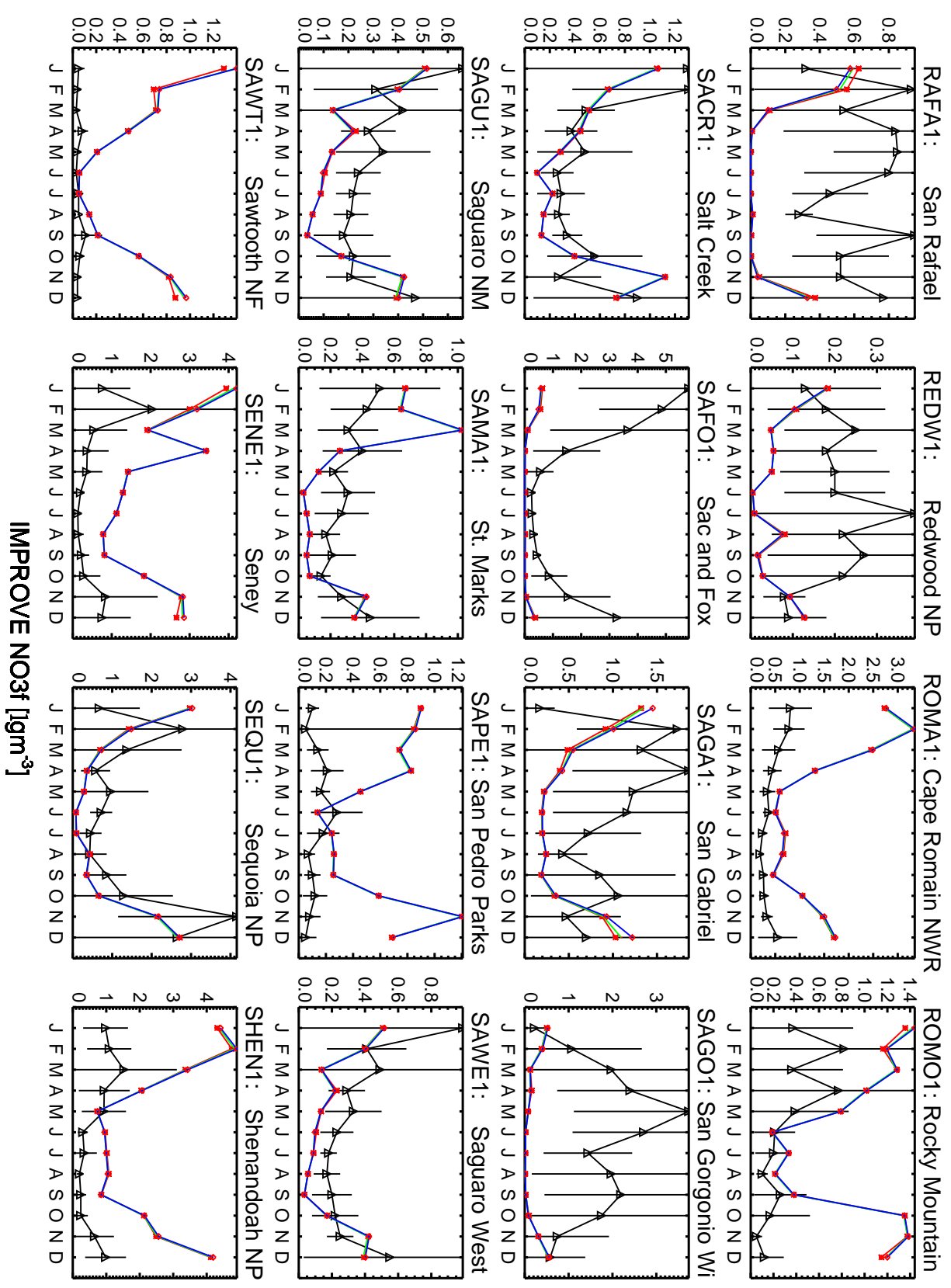
GEOS-Chem NO₃f [$\mu\text{g m}^{-3}$]



IMPROVE NO₃f [$\mu\text{g m}^{-3}$]

Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

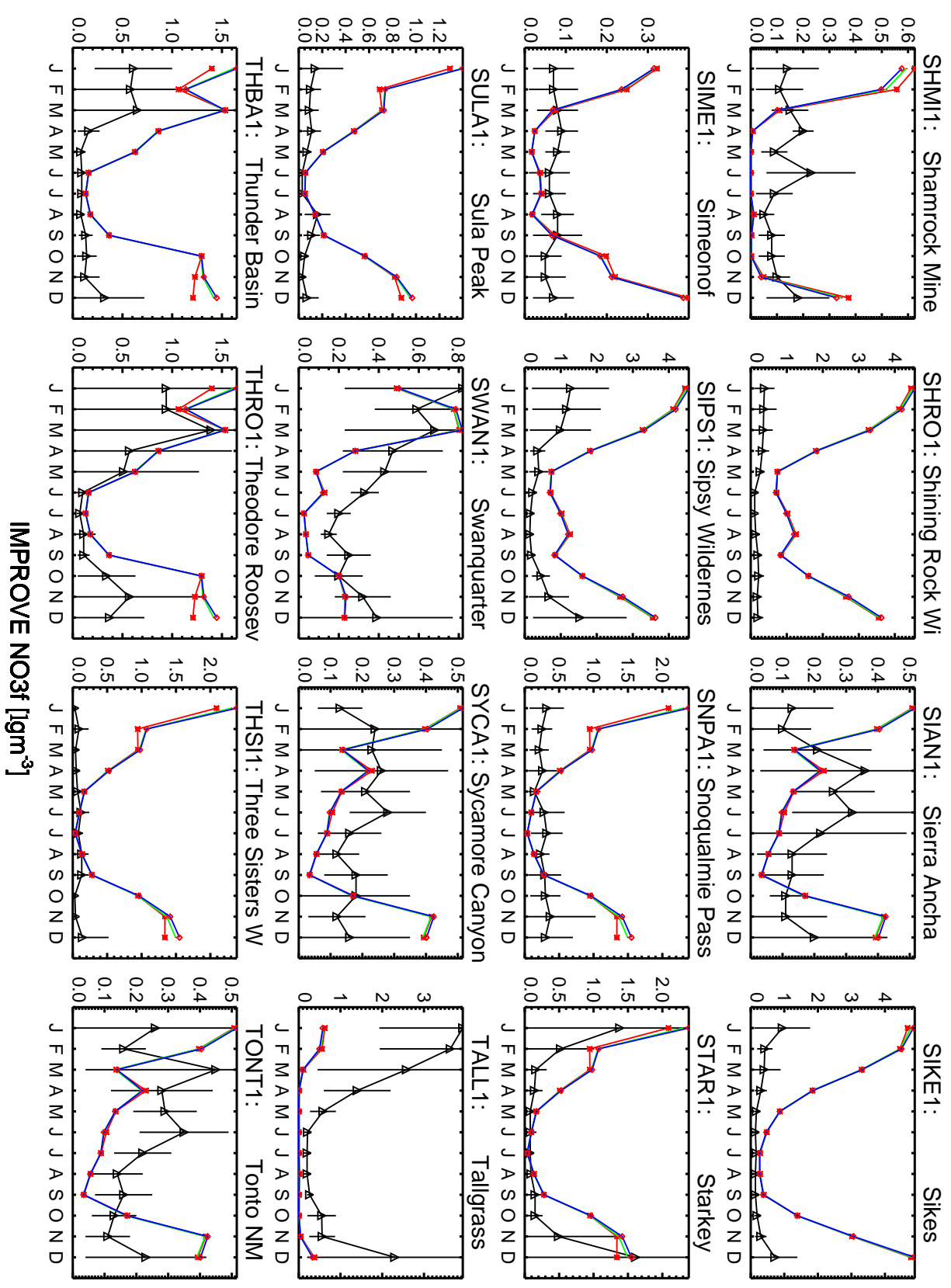
GEOS-Chem NO3f [$\mu\text{g m}^{-3}$]



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

Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

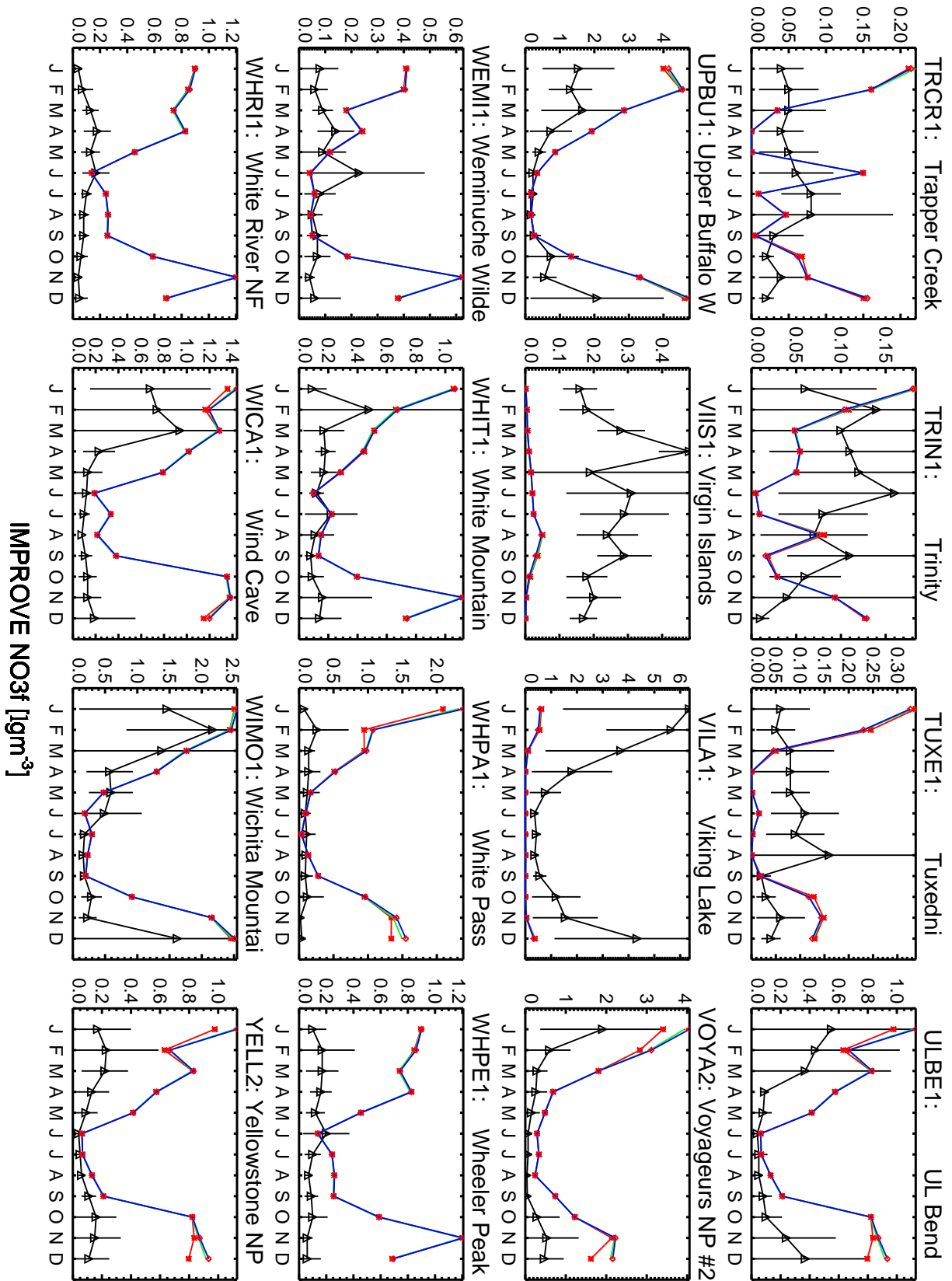
GEOS-Chem NO3f [$\mu\text{g m}^{-3}$]



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

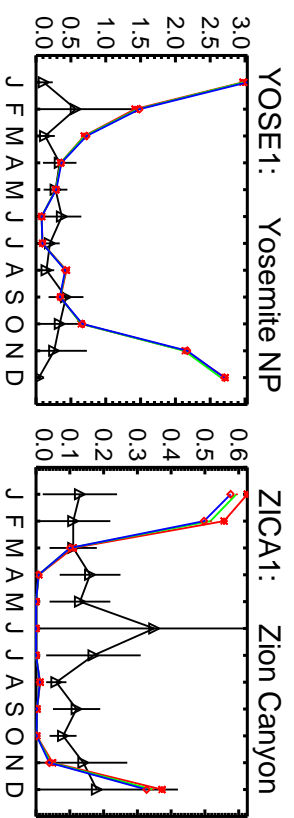
Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

GEOS-Chem NO₃f [$\mu\text{g m}^{-3}$]



IMPROVE NO₃f [$\mu\text{g m}^{-3}$]

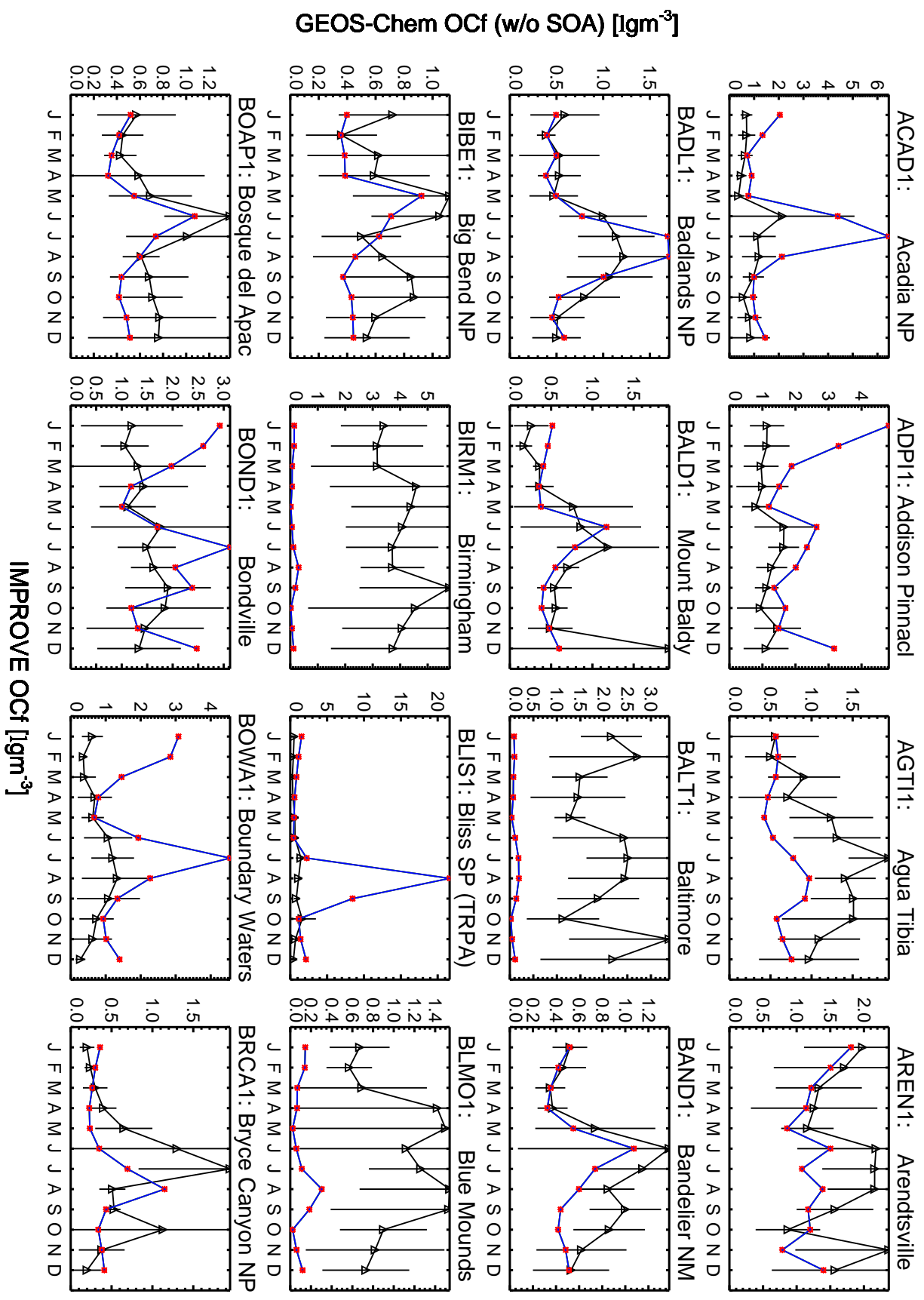
Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)



GEOS-Chem NO_3f [$\mu\text{g m}^{-3}$]

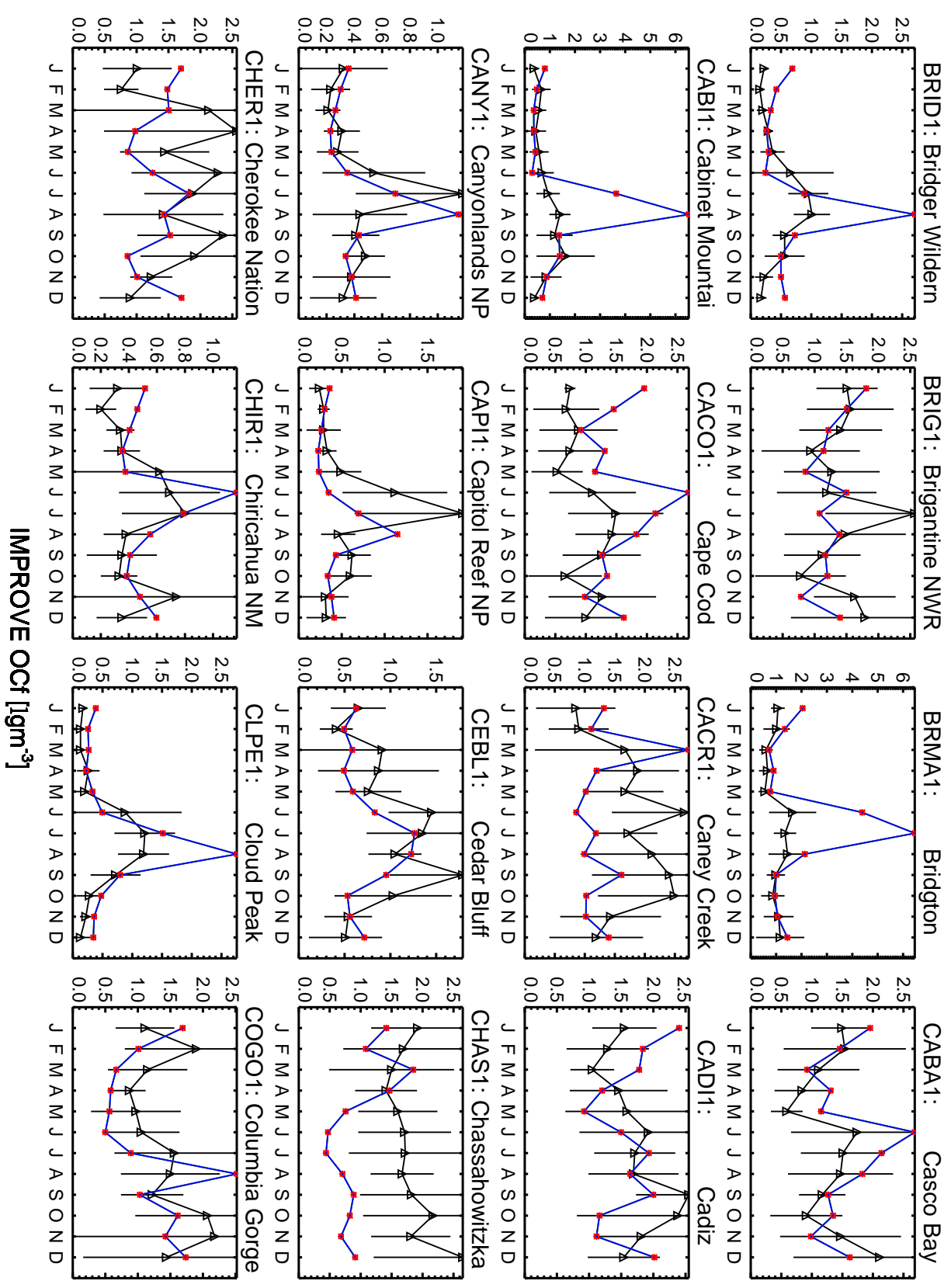
IMPROVE NO_3f [$\mu\text{g m}^{-3}$]

Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)



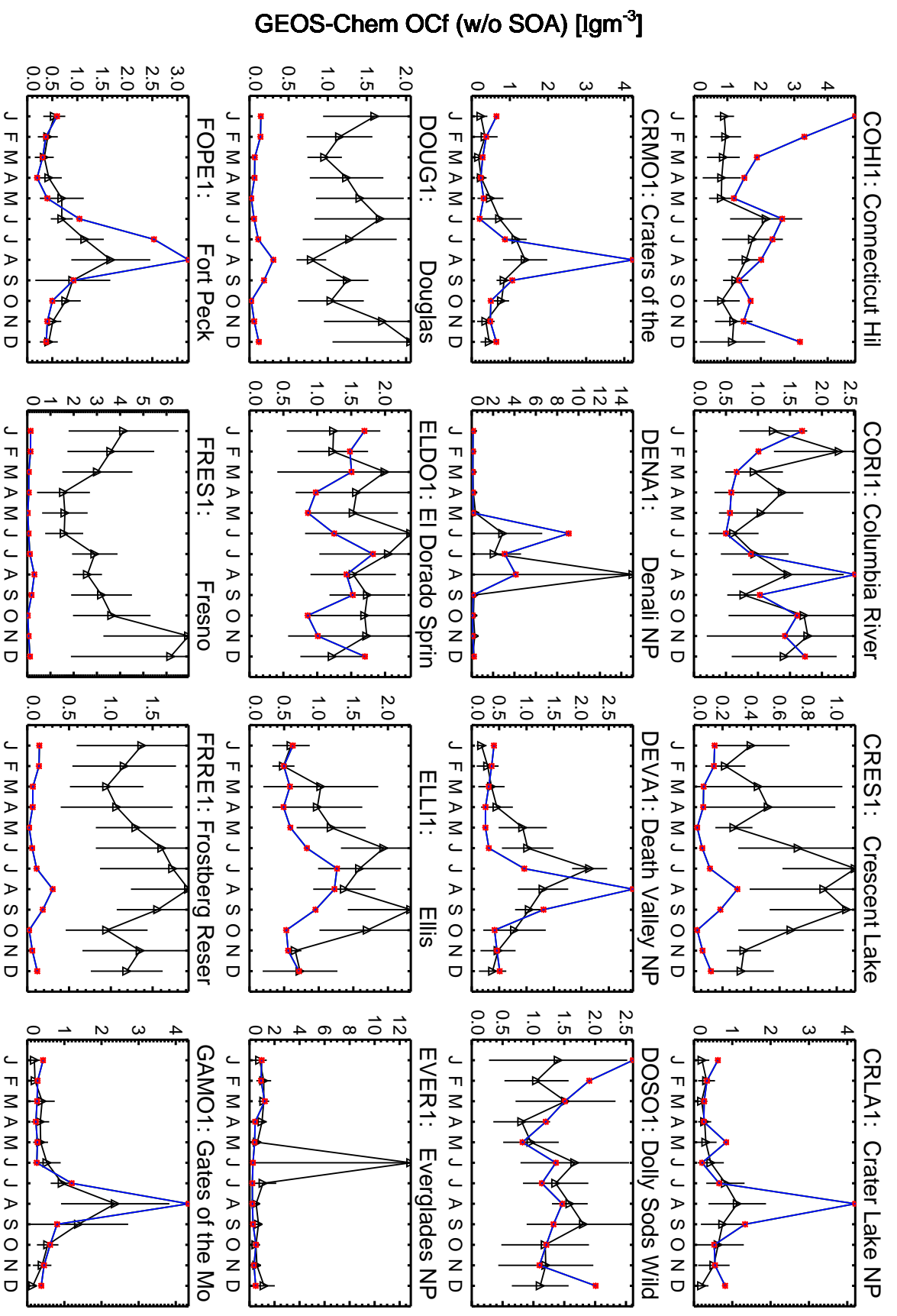
Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

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



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

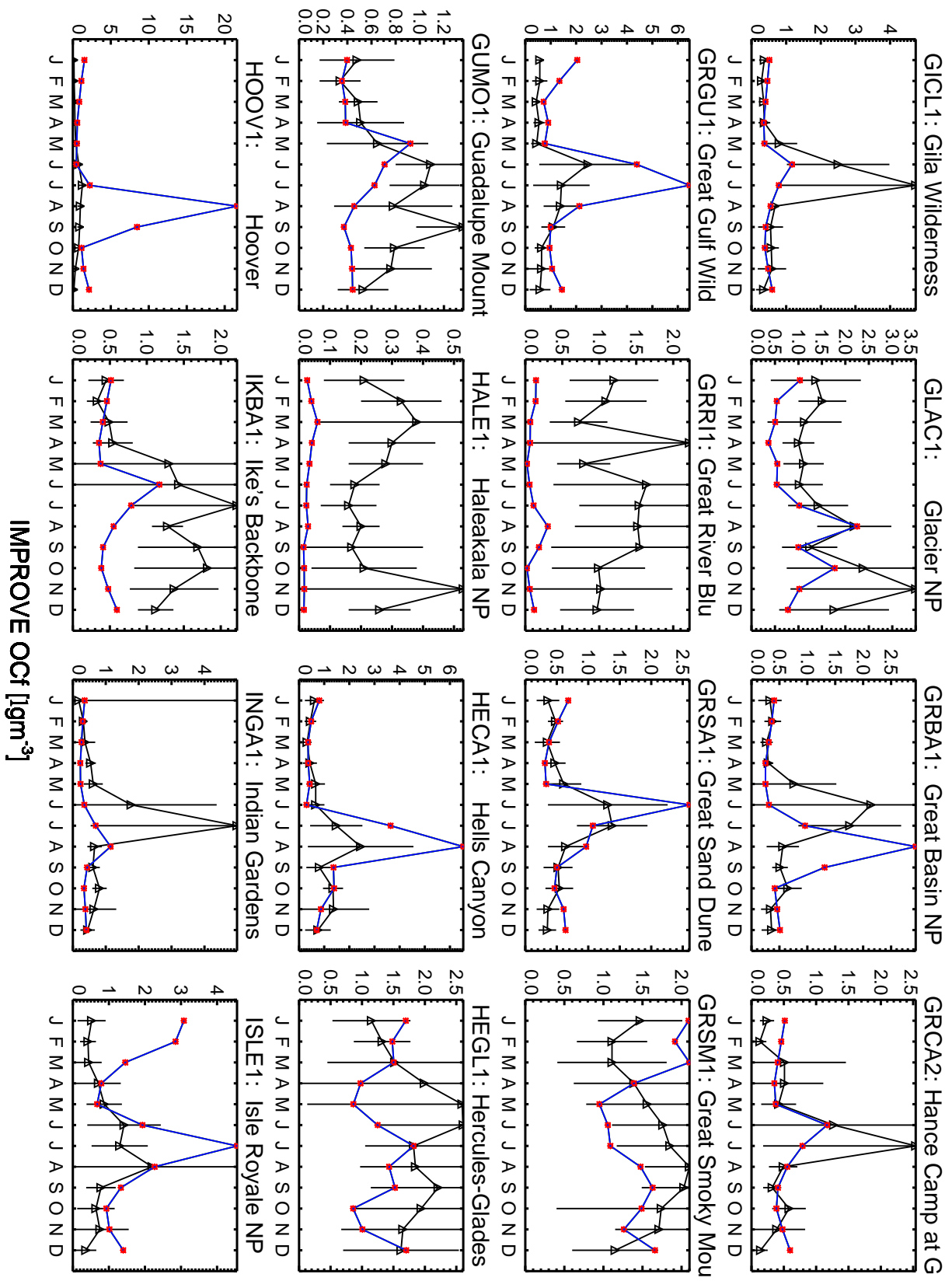
Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)



IMPROVE OCf [lgm^{-3}]

Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

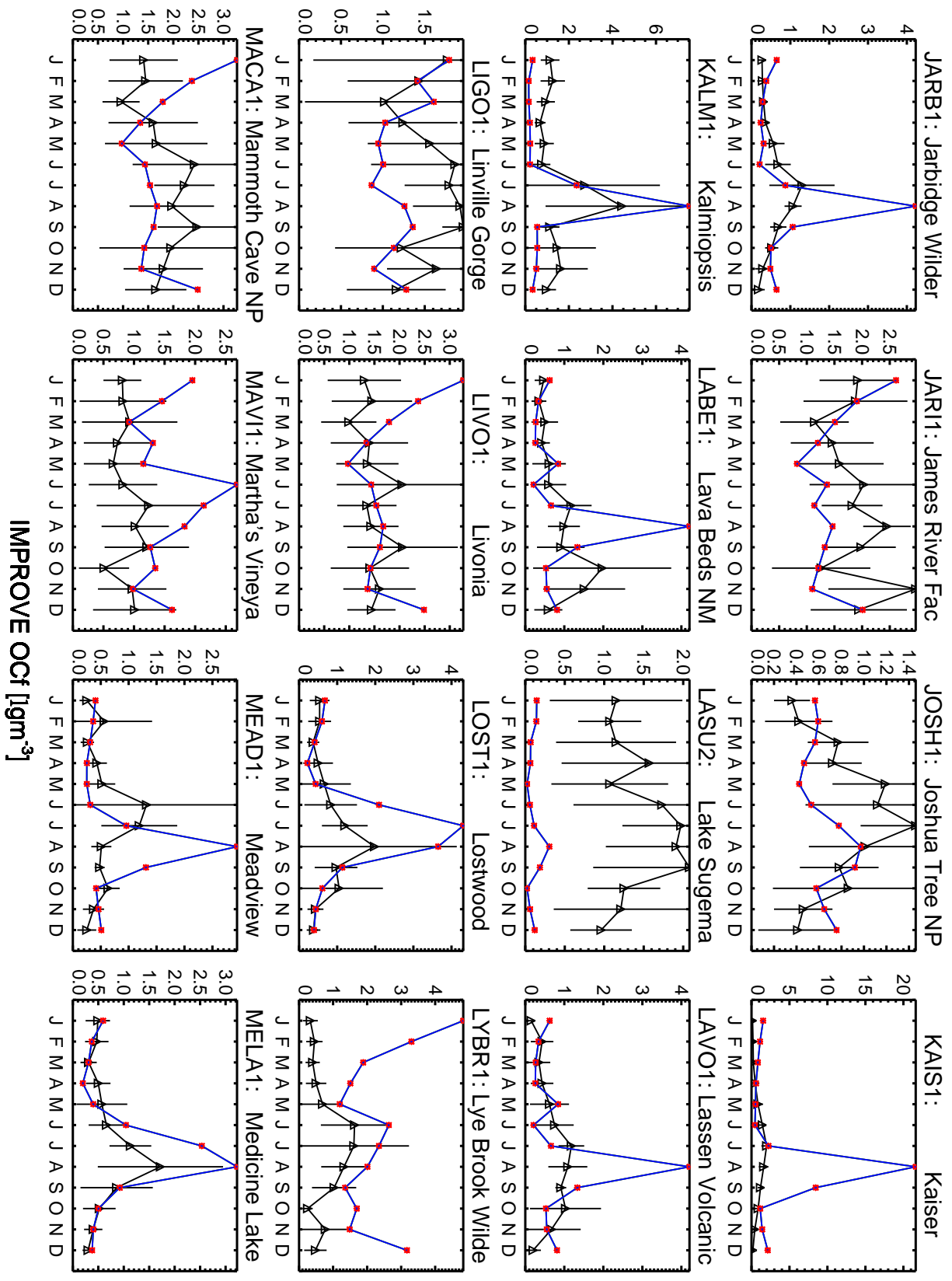
GEOS-Chem OCf (w/o SOA) [$\mu\text{g m}^{-3}$]



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

Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

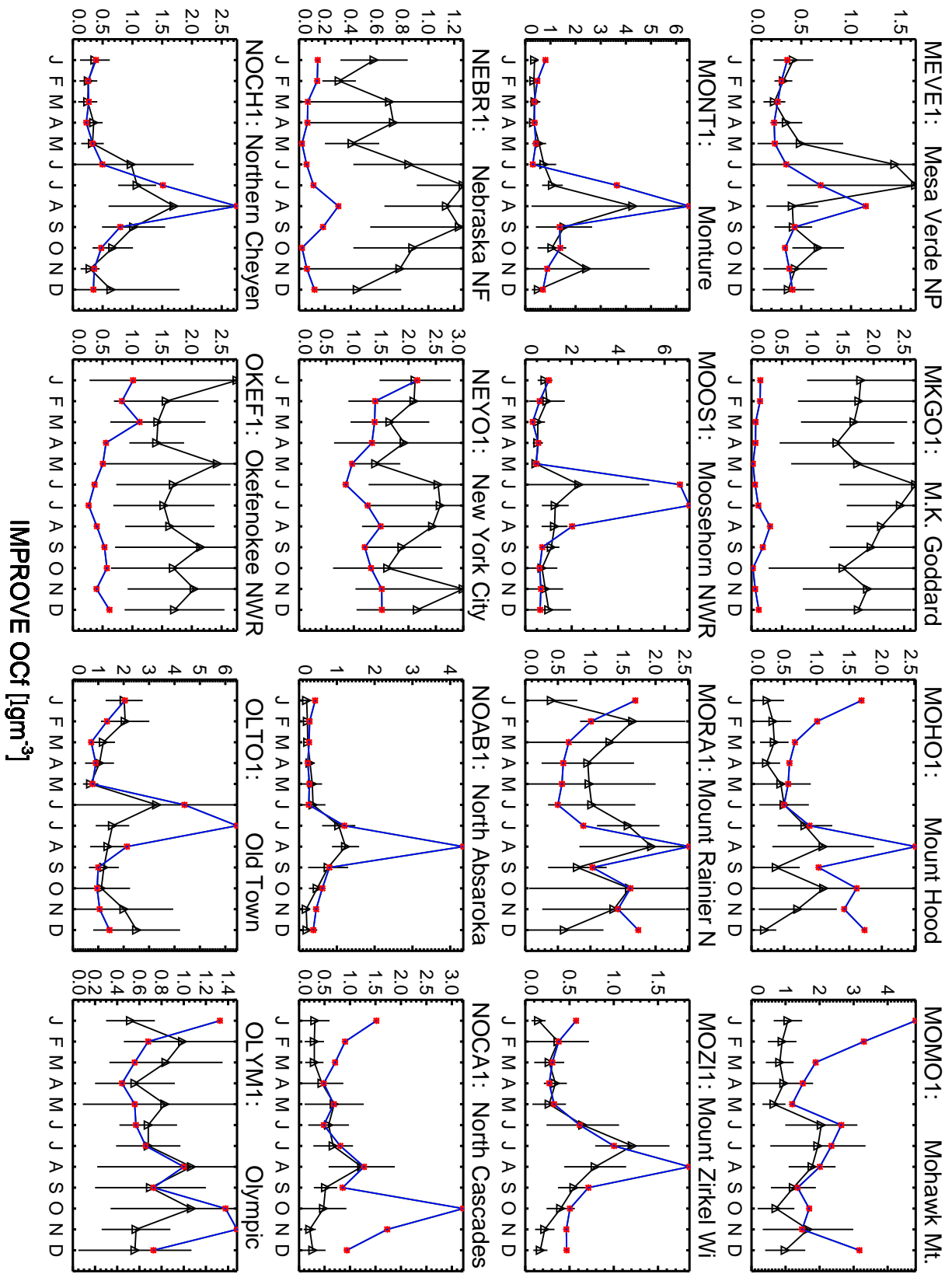
GEOS-Chem OCf (w/o SOA) [$\mu\text{g m}^{-3}$]



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

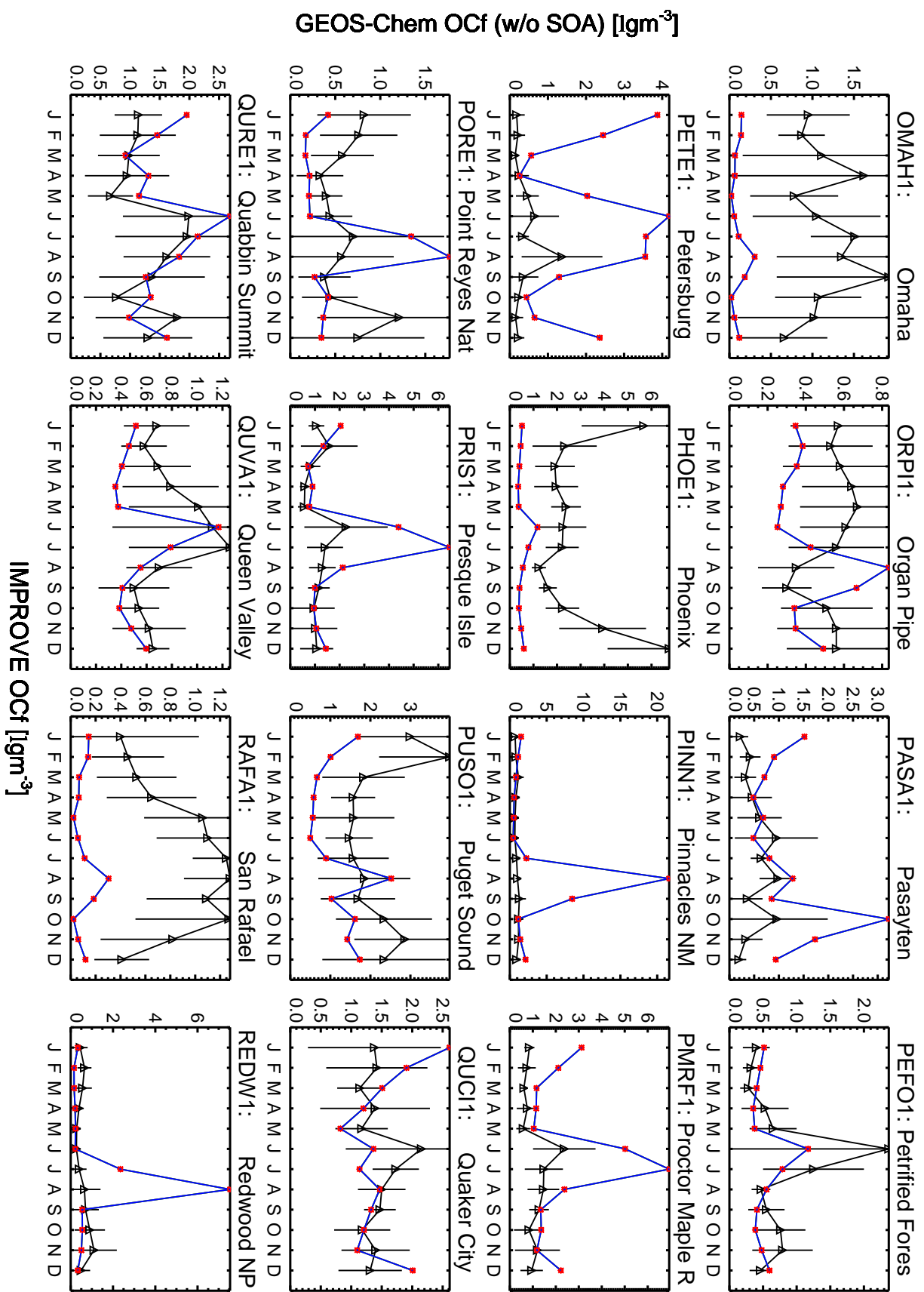
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GEOS-Chem OCf (w/o SOA) [$\mu\text{g m}^{-3}$]



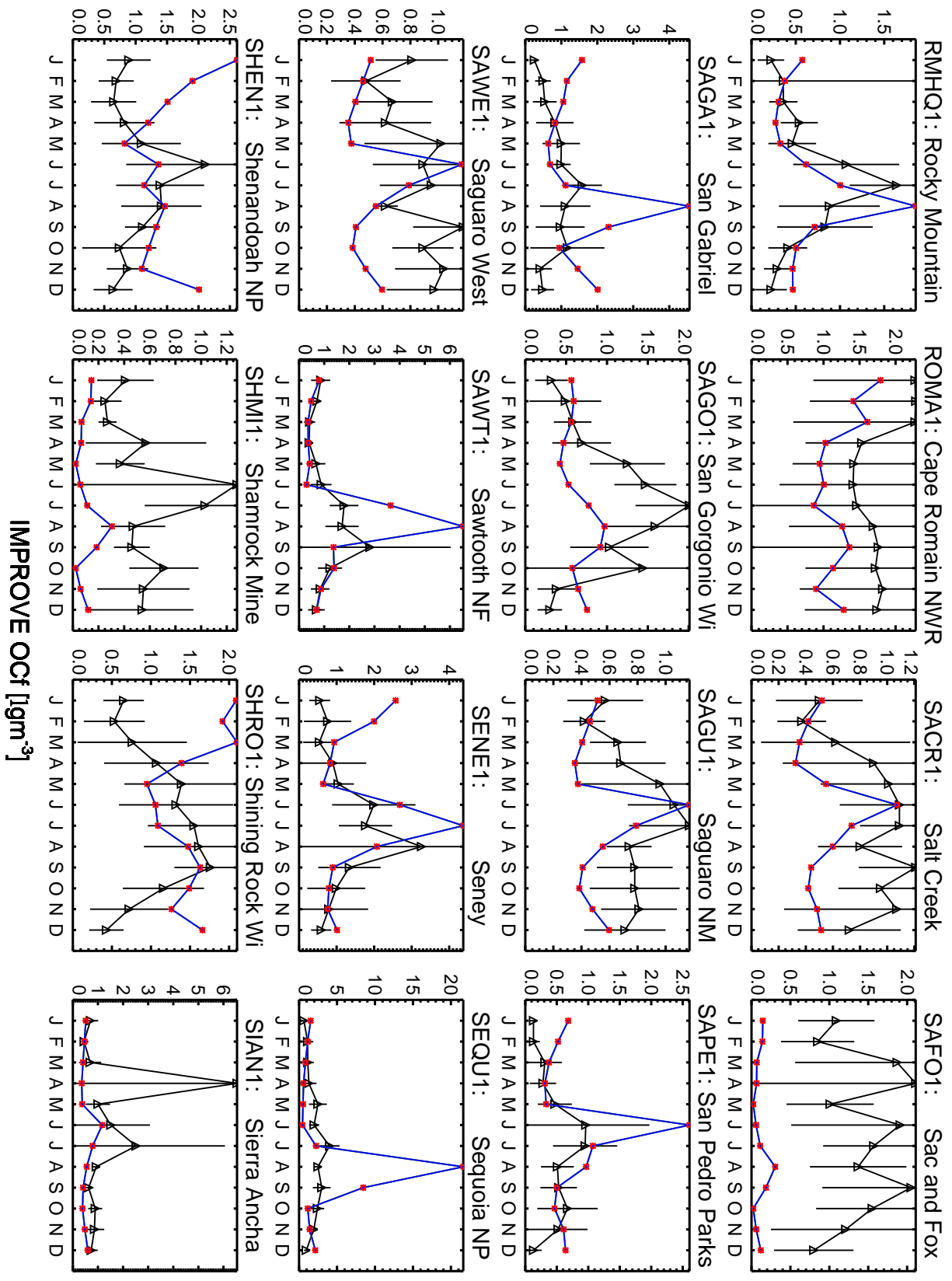
IMPROVE OCf [$\mu\text{g m}^{-3}$]

Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)



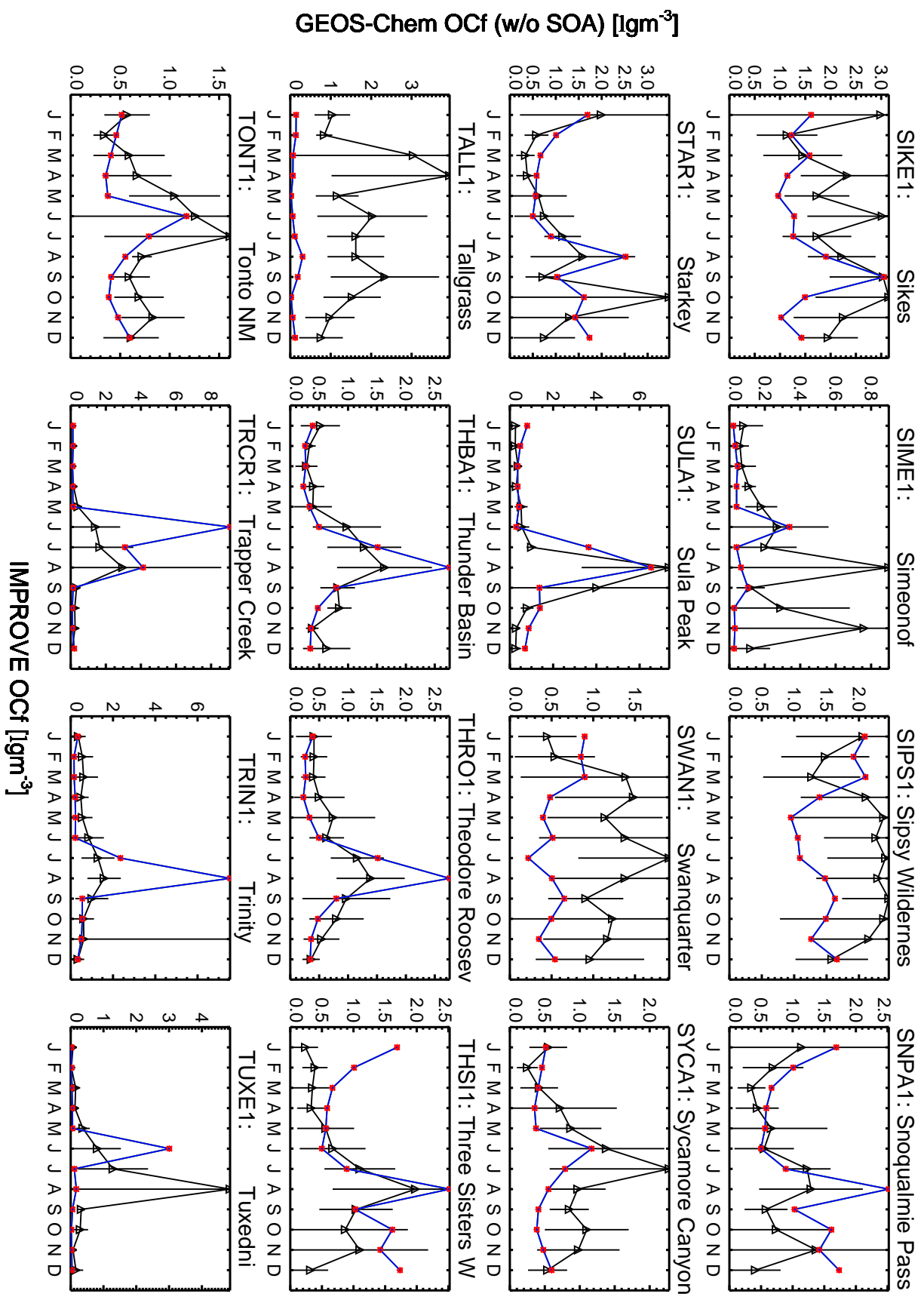
Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

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



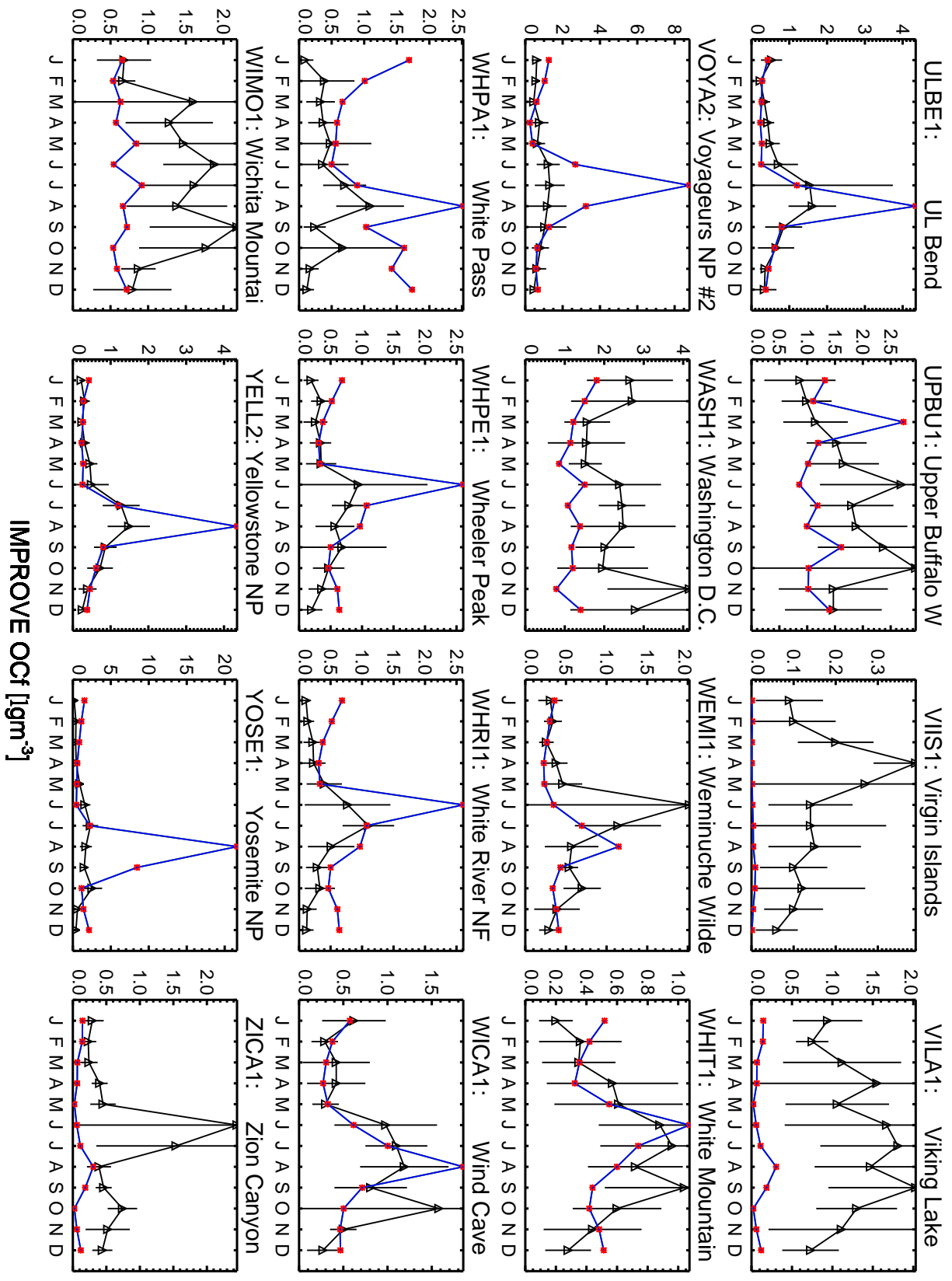
IMPROVE OCf [$\mu\text{g m}^{-3}$]

Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)



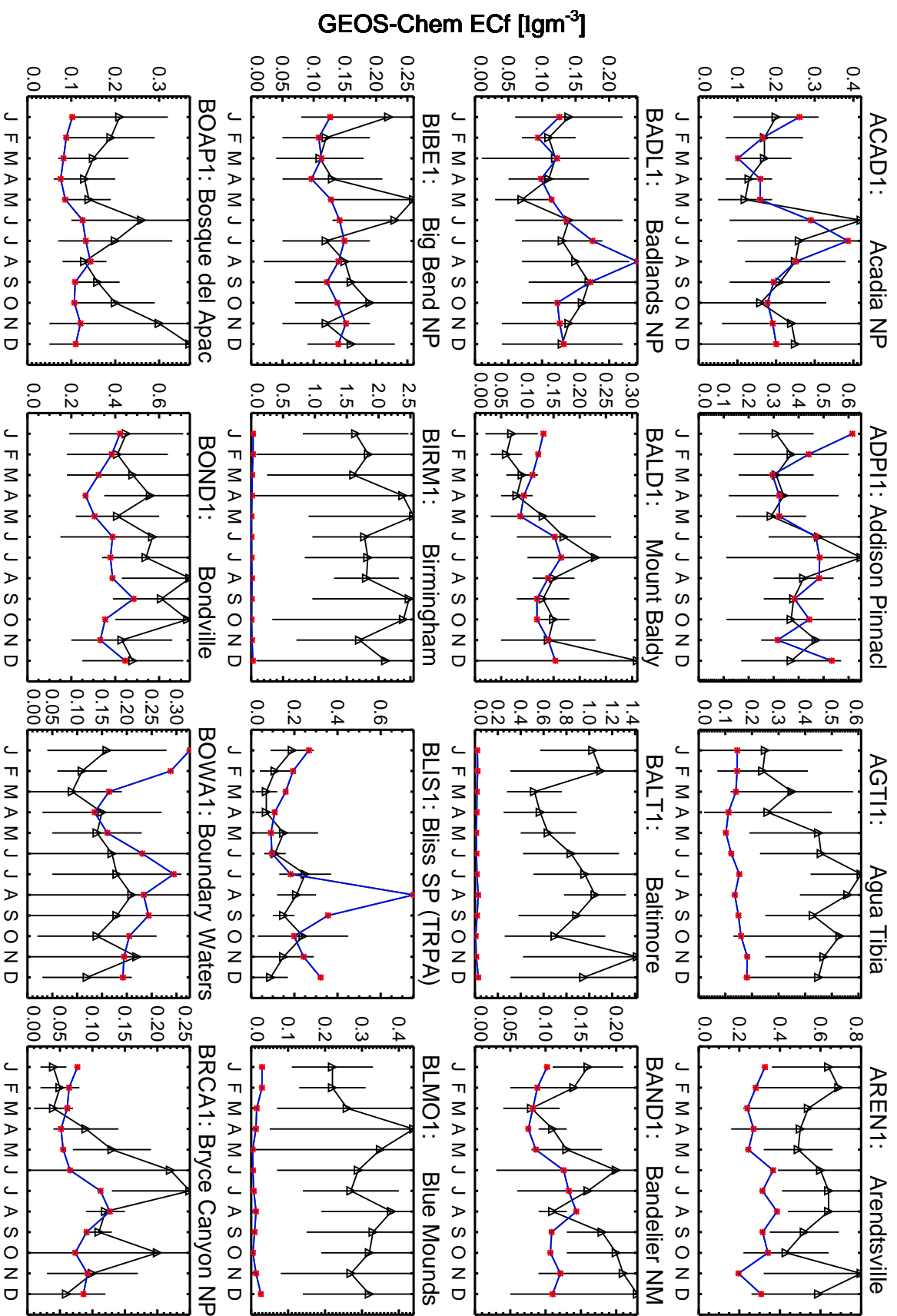
Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

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

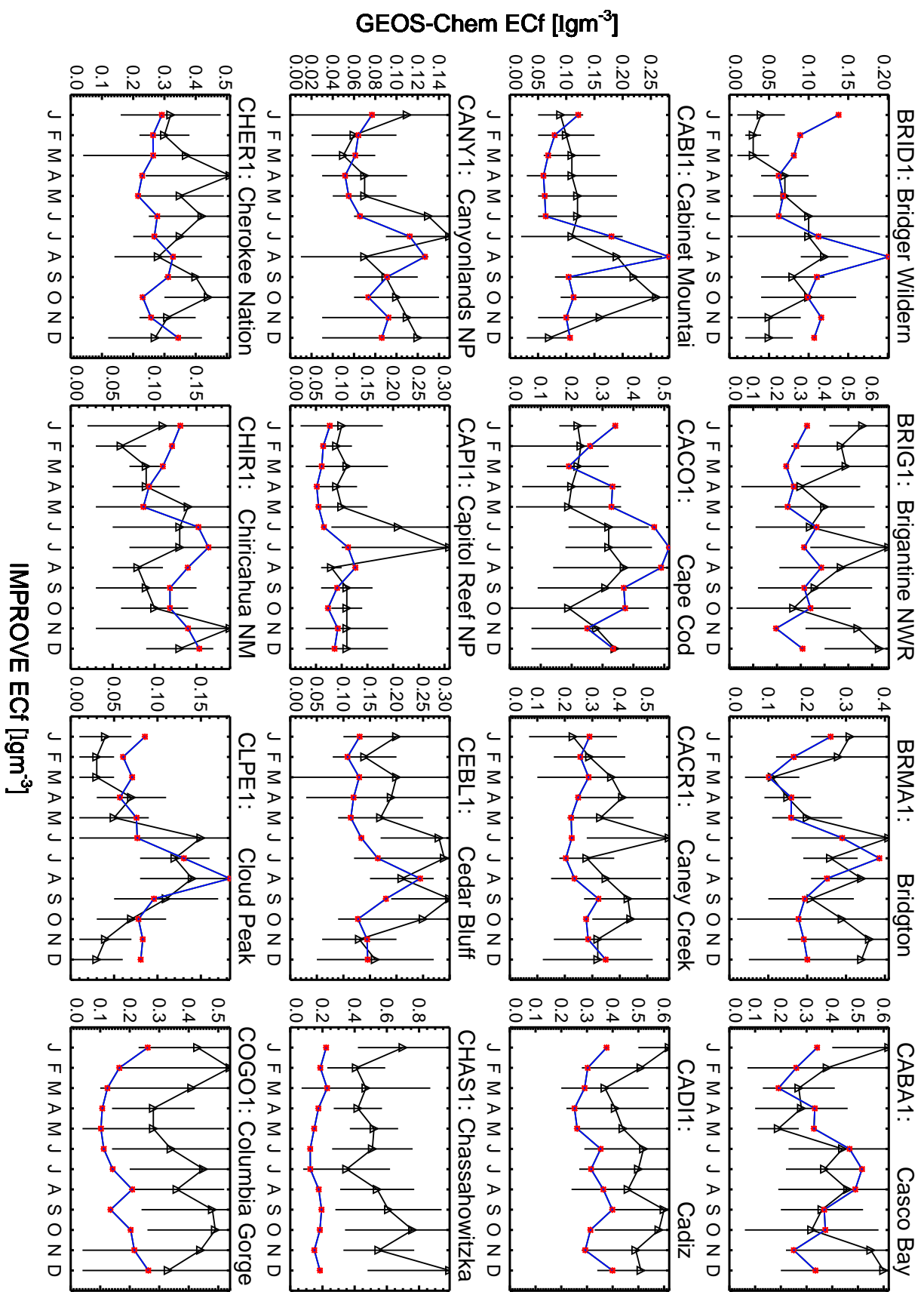


IMPROVE OCf [$\mu\text{g m}^{-3}$]

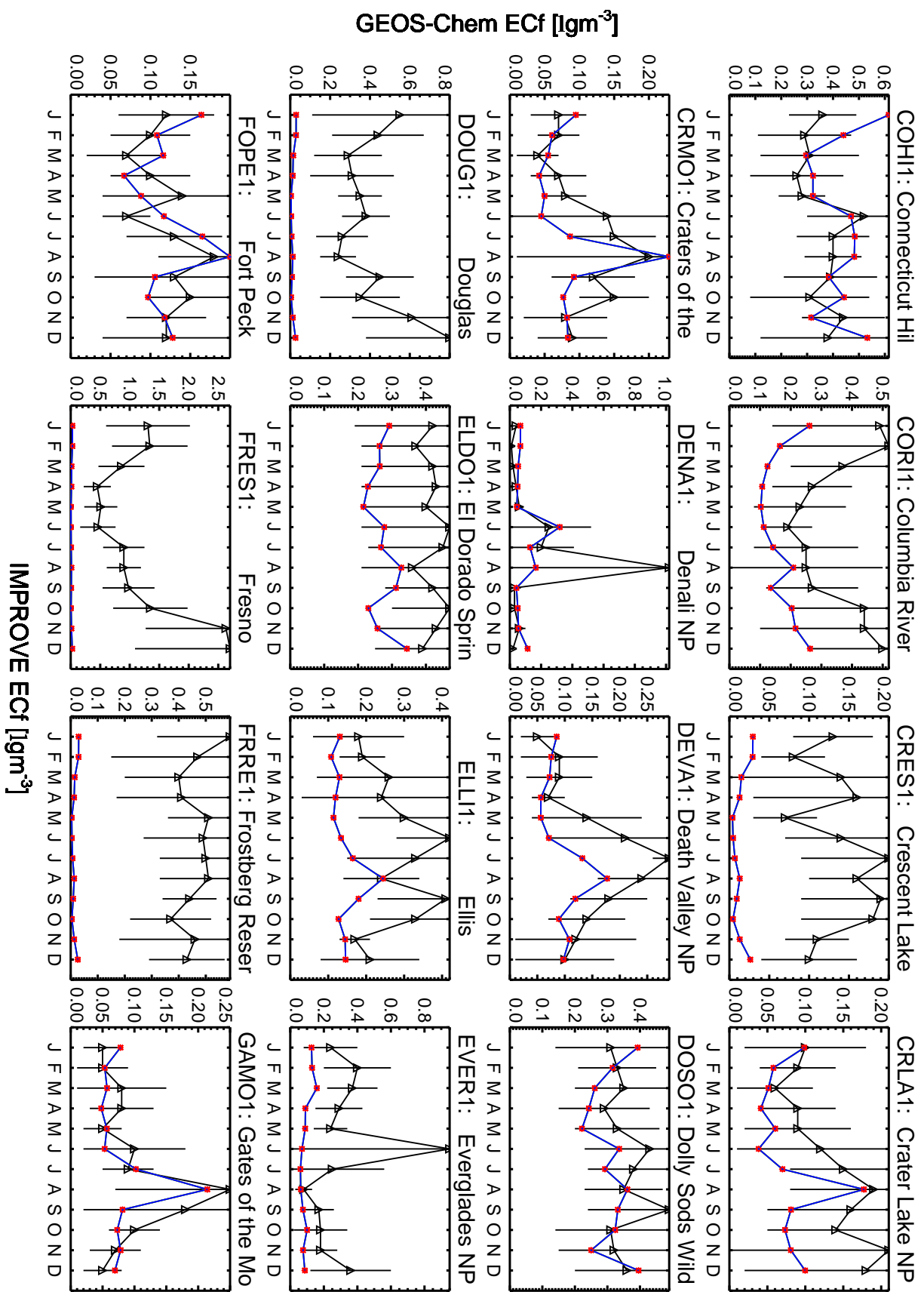
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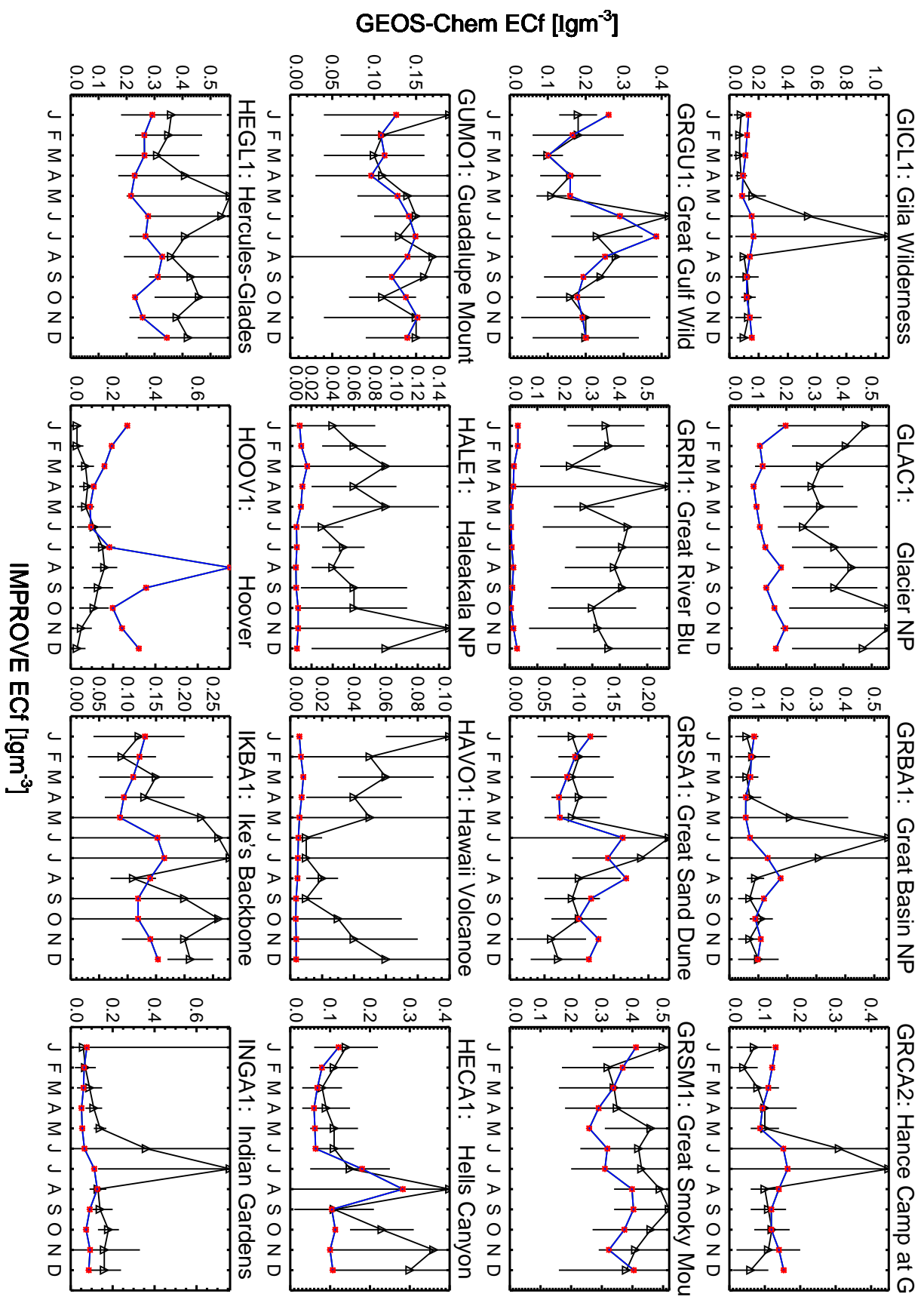
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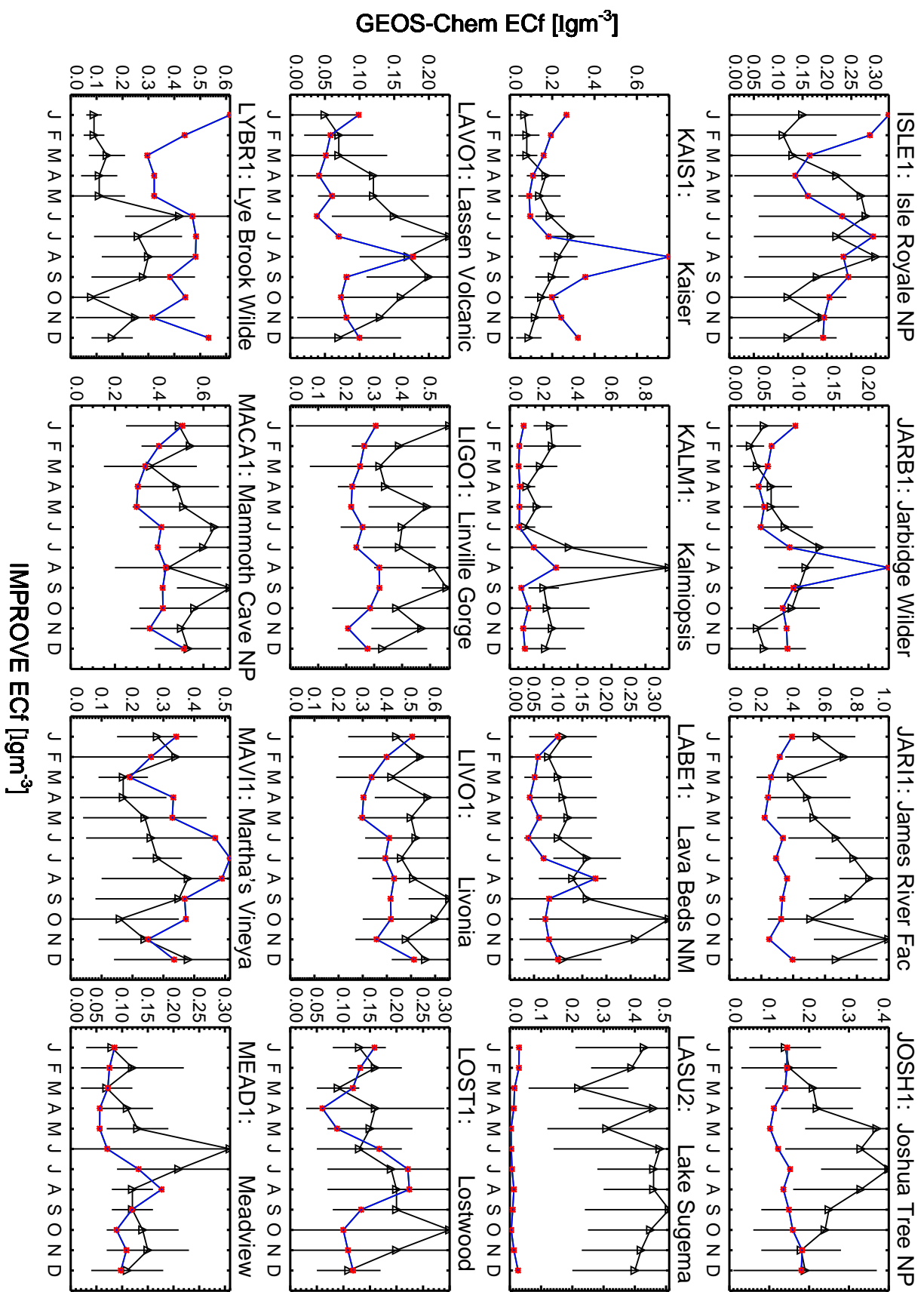
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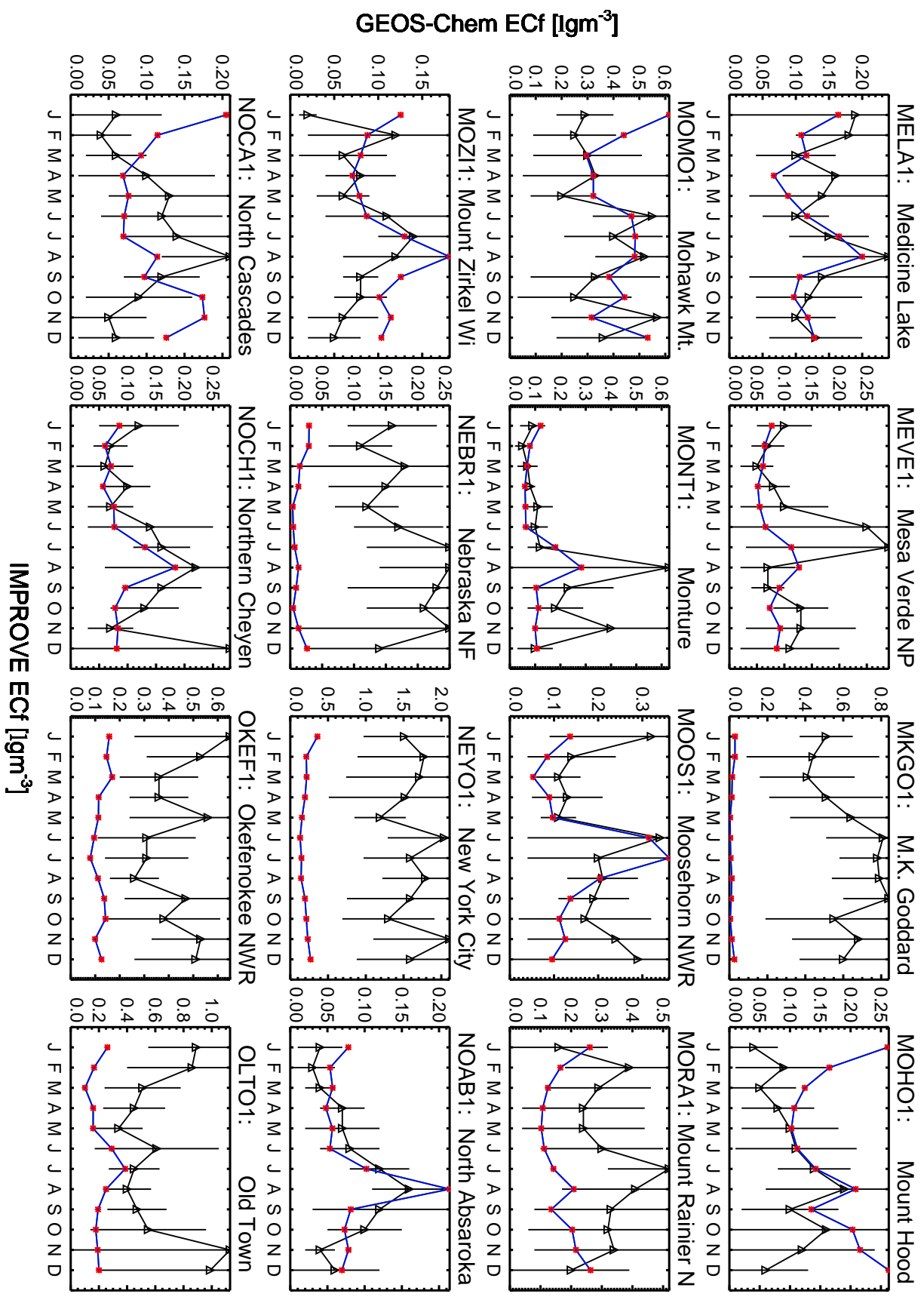
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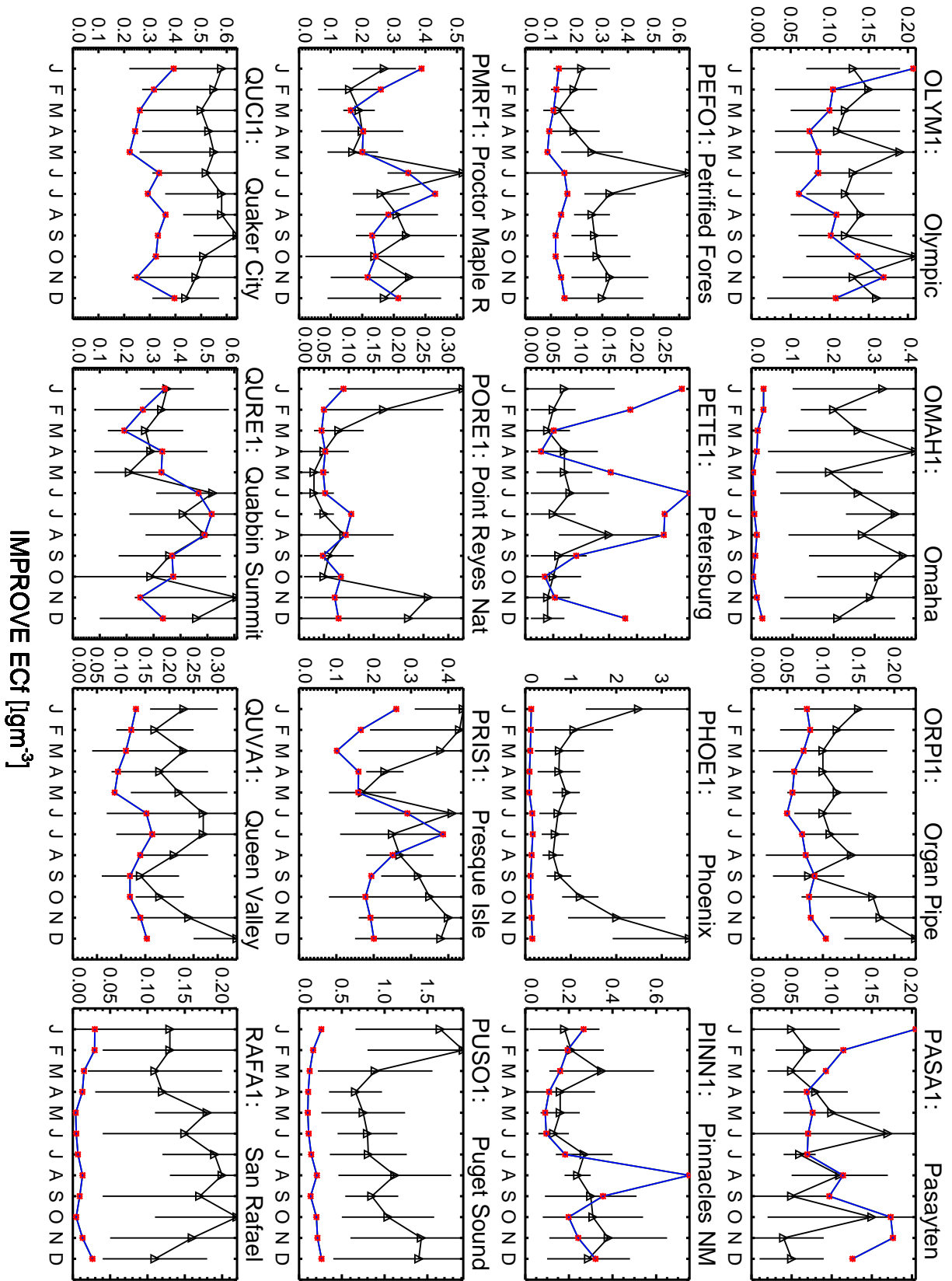


Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)



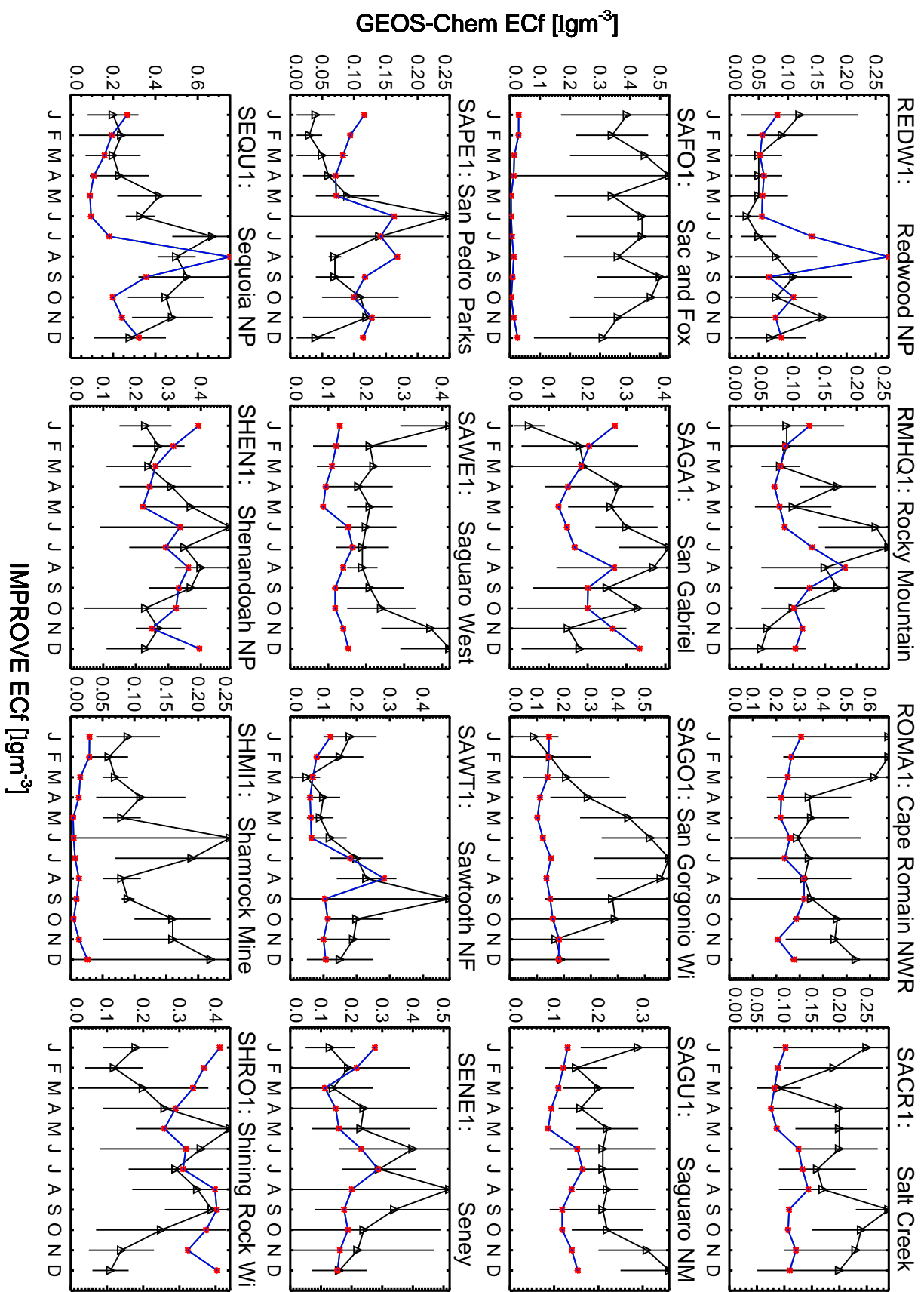
Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

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



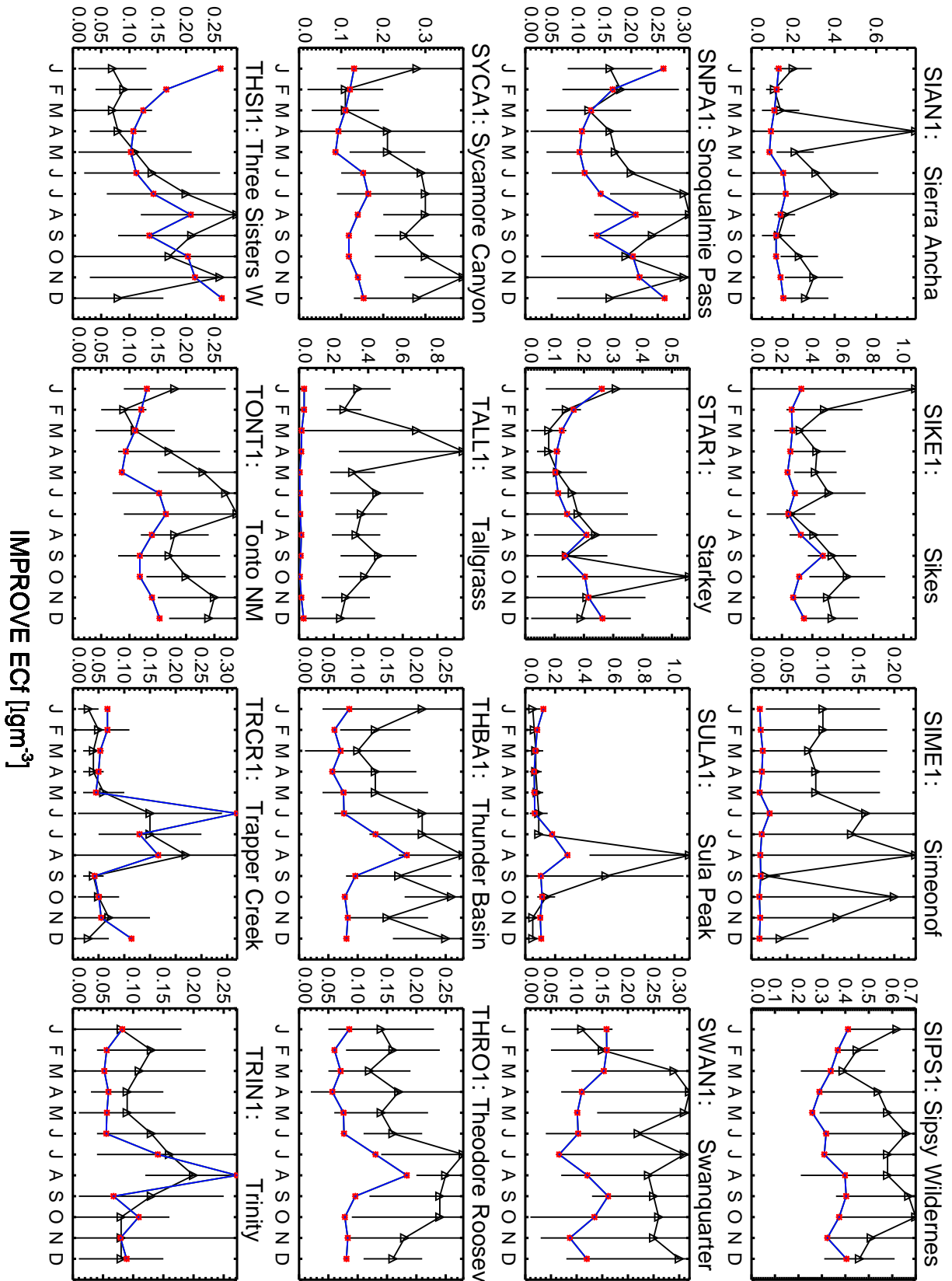
IMPROVE ECf [$\mu\text{g m}^{-3}$]

Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)



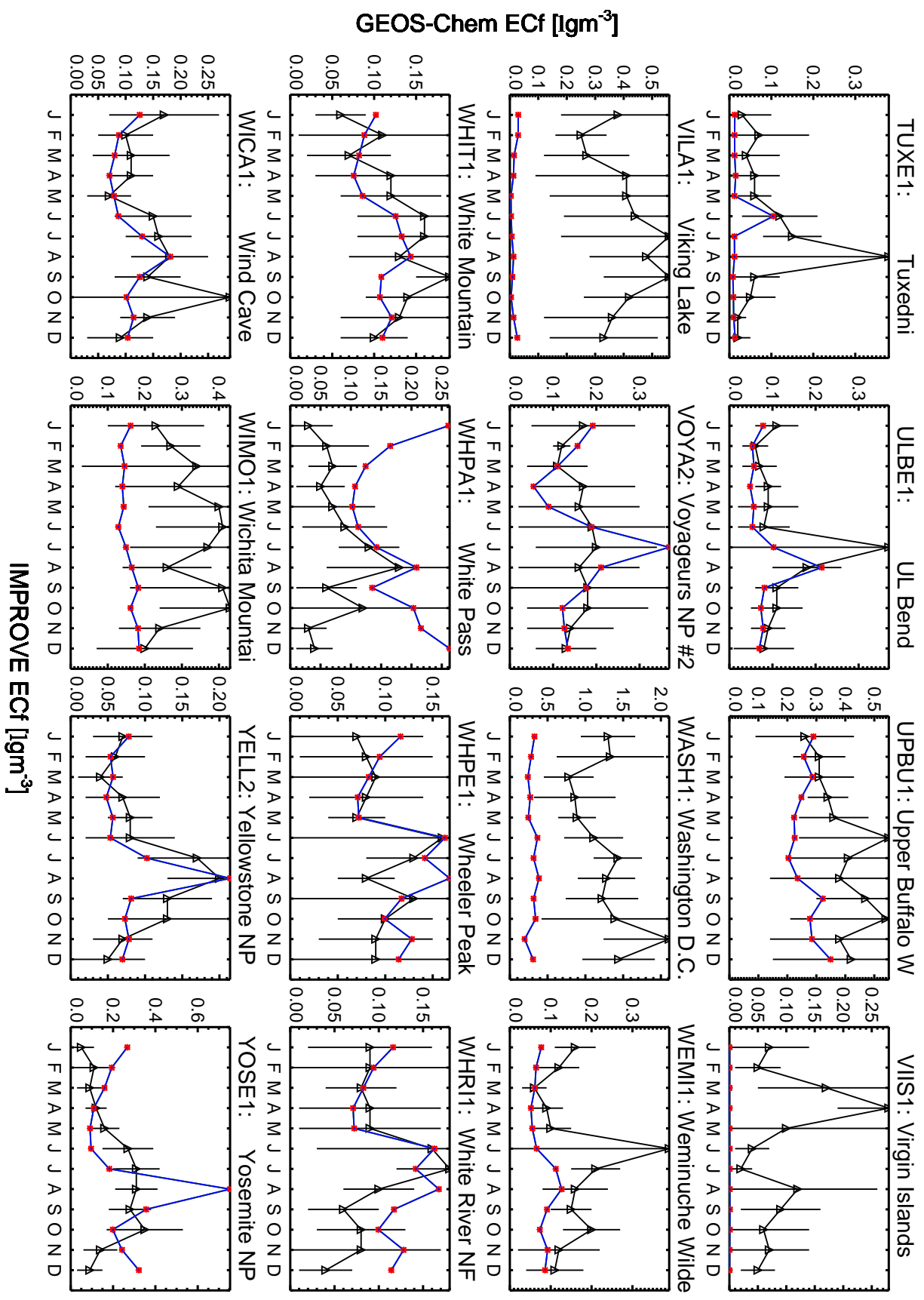
Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)

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

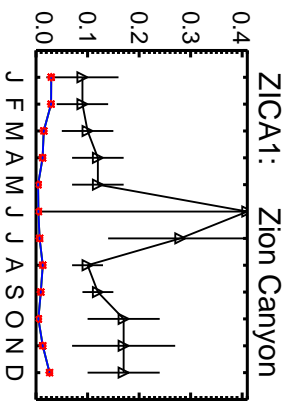


IMPROVE ECf [$\mu\text{g m}^{-3}$]

Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)



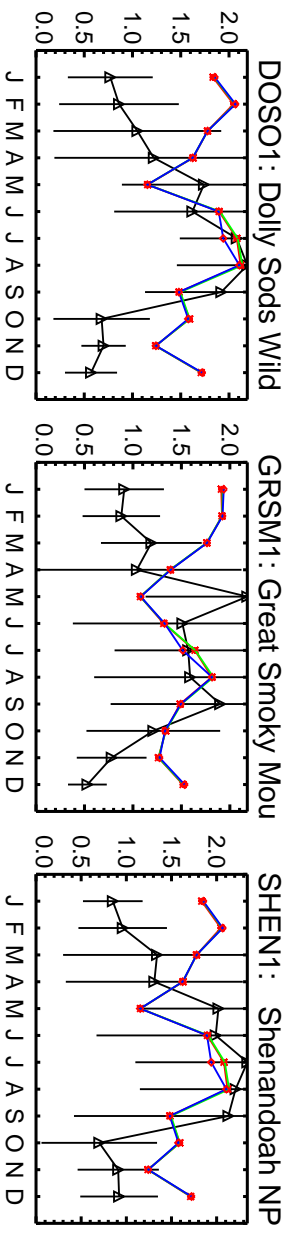
Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)



GEOS-Chem ECf [μgm^{-3}]

IMPROVE ECf [μgm^{-3}]

Red: v11-02c-Run0 (2013); Green: v11-02d-Run1 (2013); Blue: v11-02e-Run0 (2013)



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

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