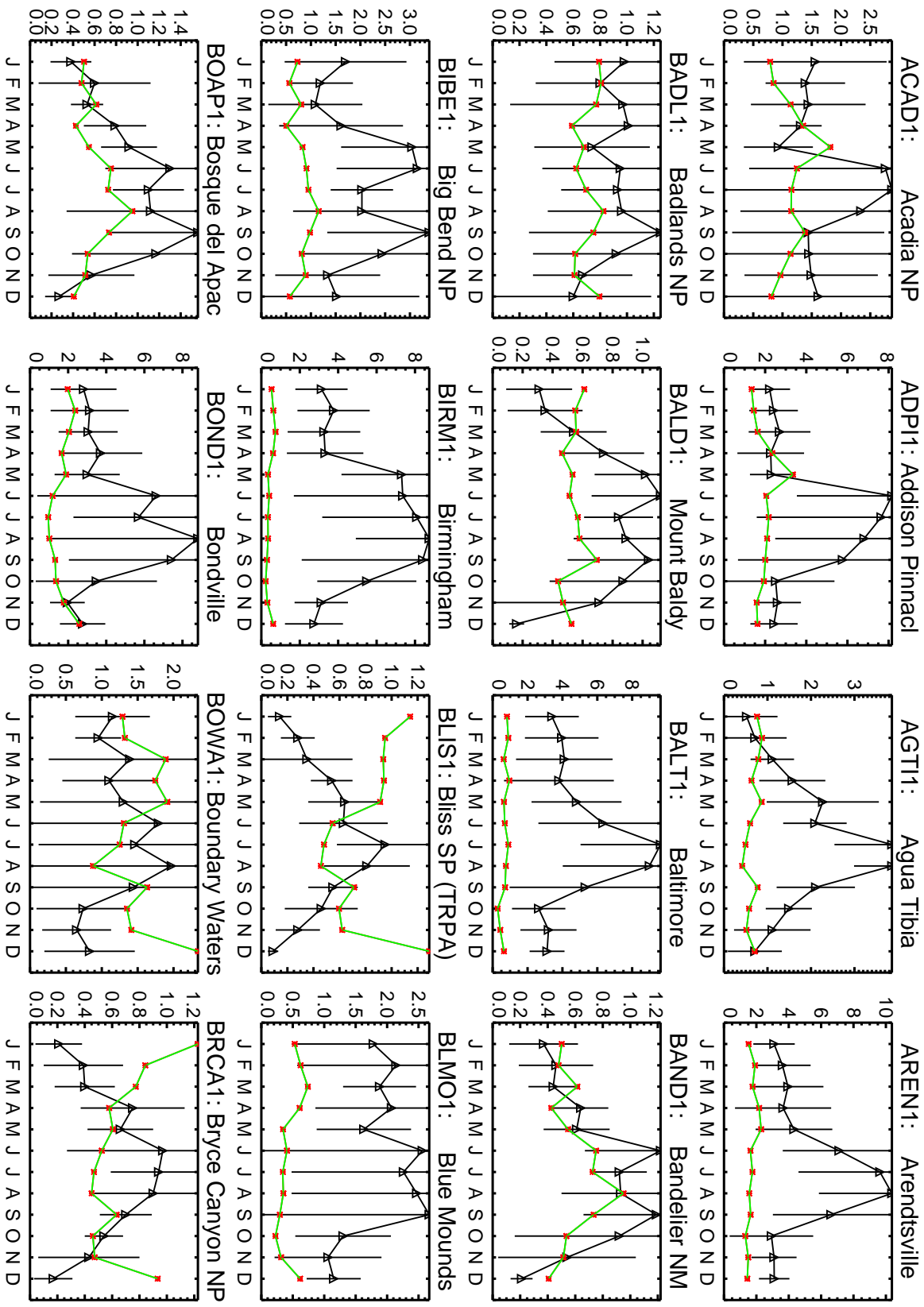


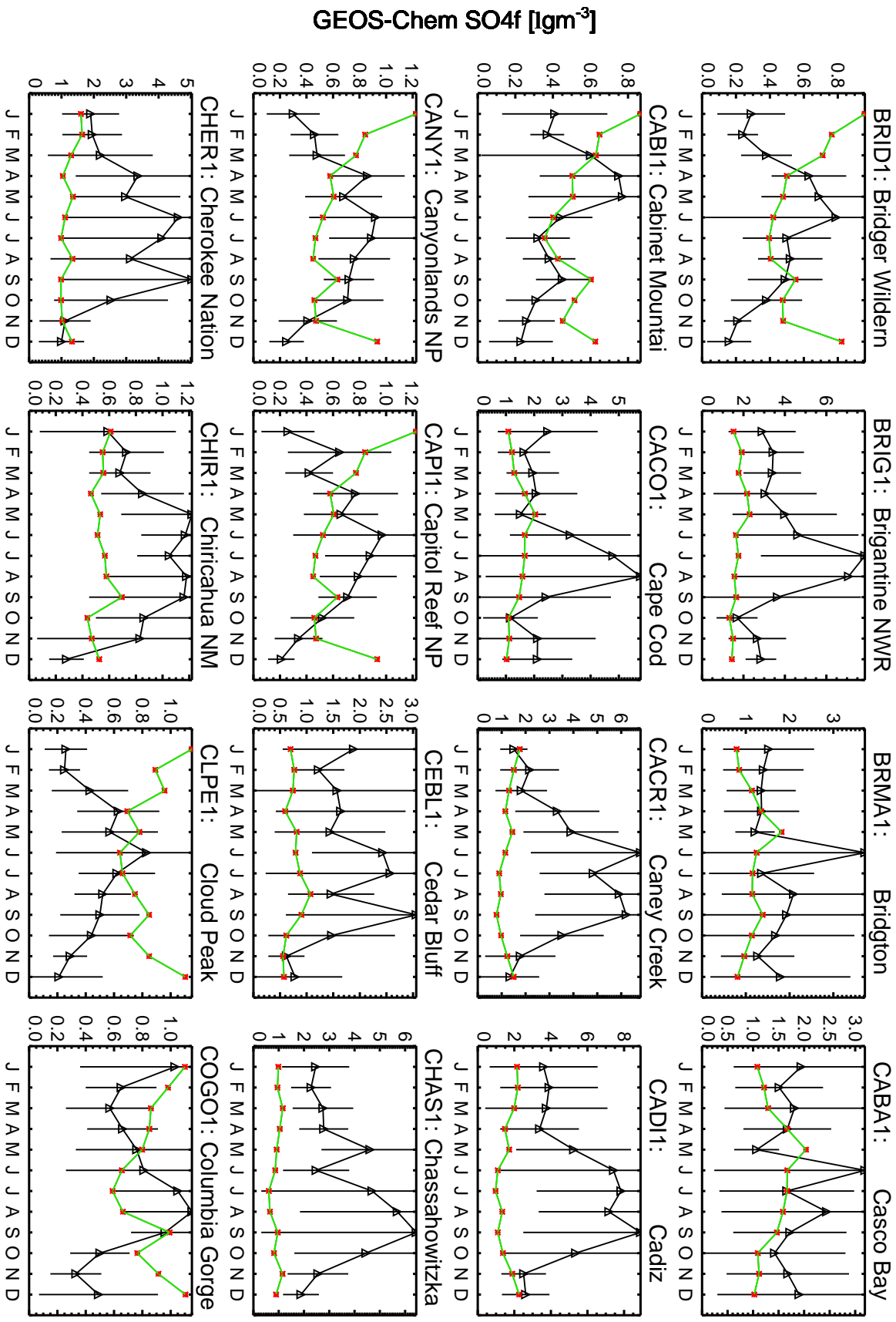
Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)

GEOS-Chem SO₄f [$\mu\text{g m}^{-3}$]



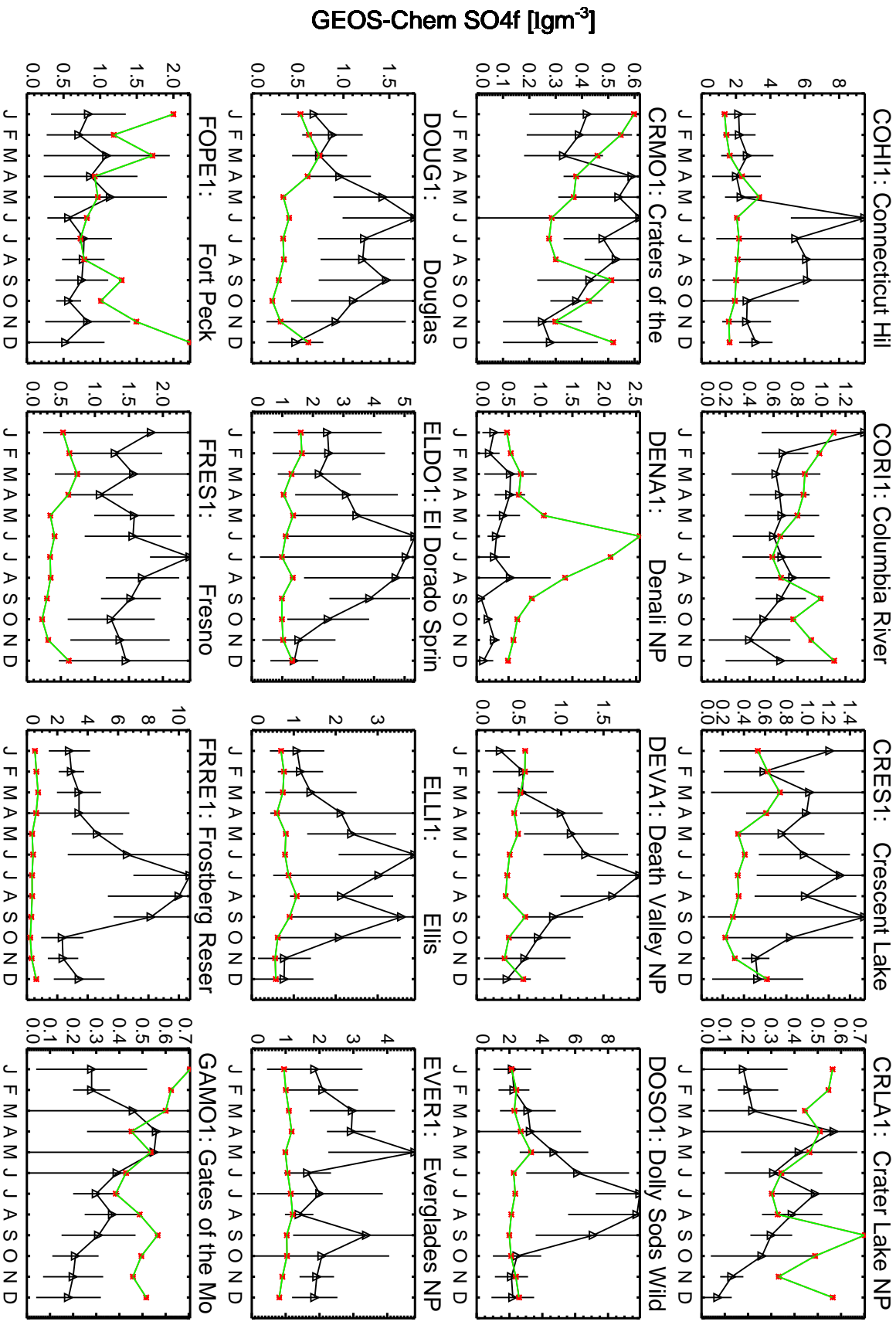
IMPROVE SO₄f [$\mu\text{g m}^{-3}$]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



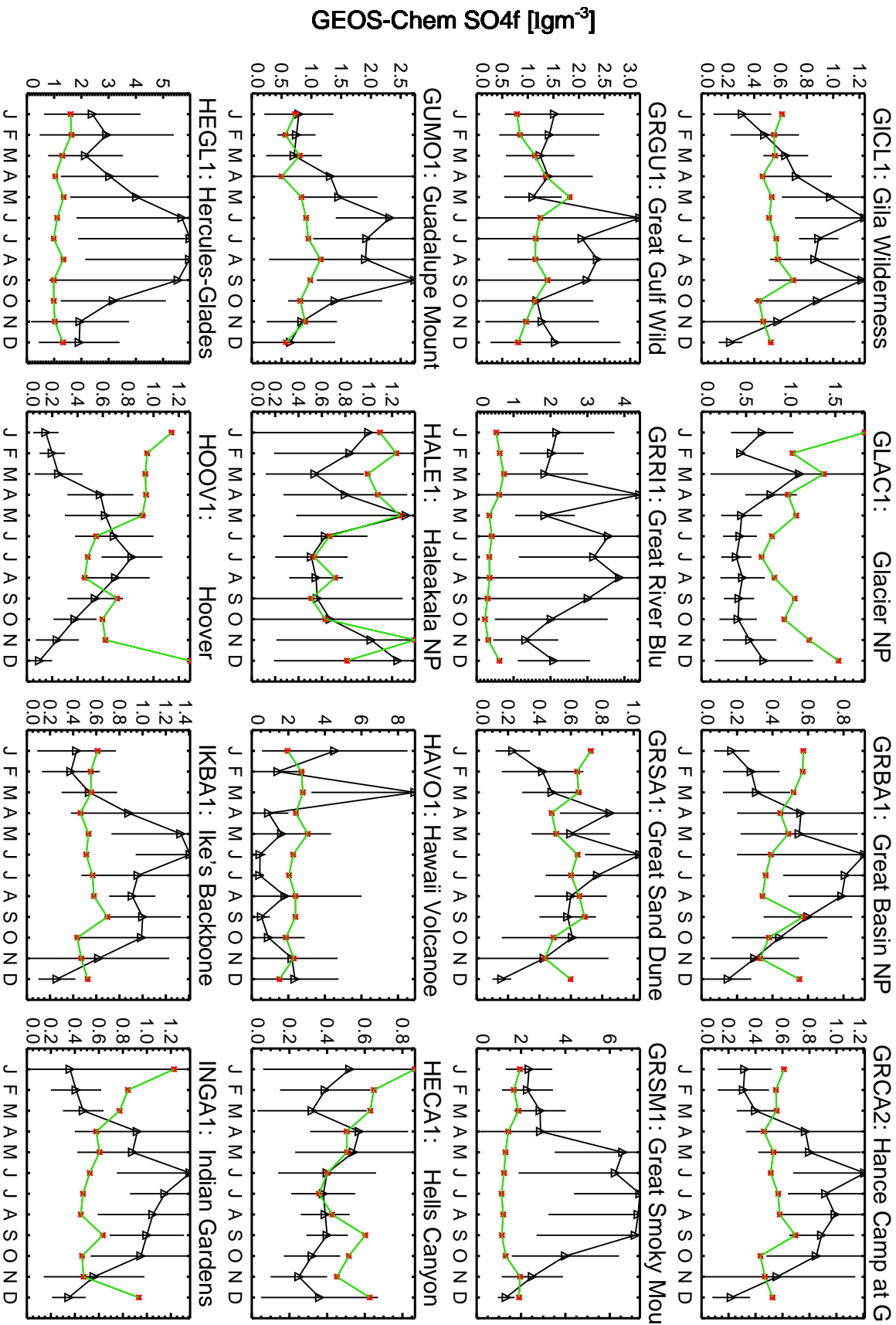
IMPROVE SO₄f [Igm⁻³]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



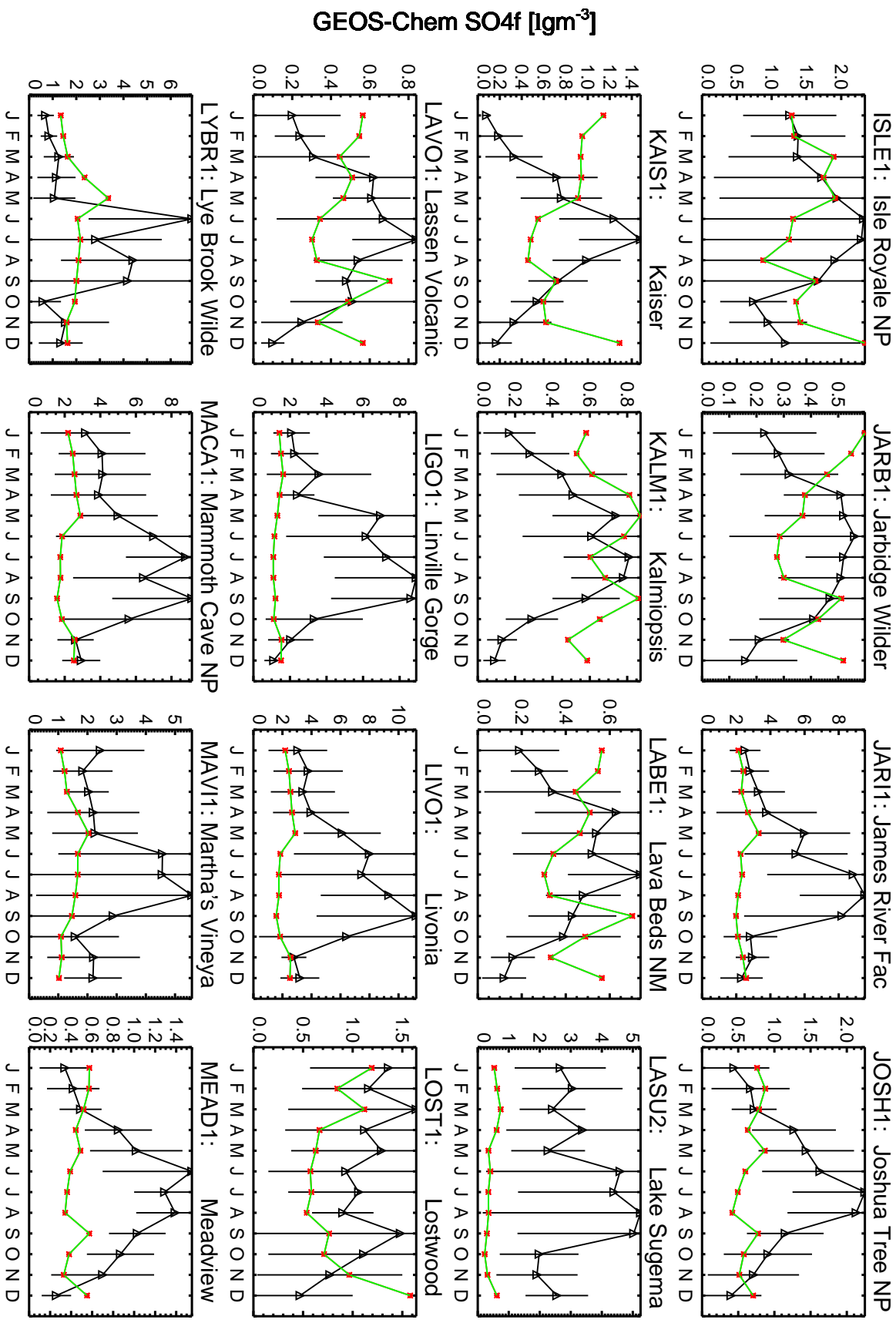
IMPROVE SO₄f [$\mu\text{g m}^{-3}$]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



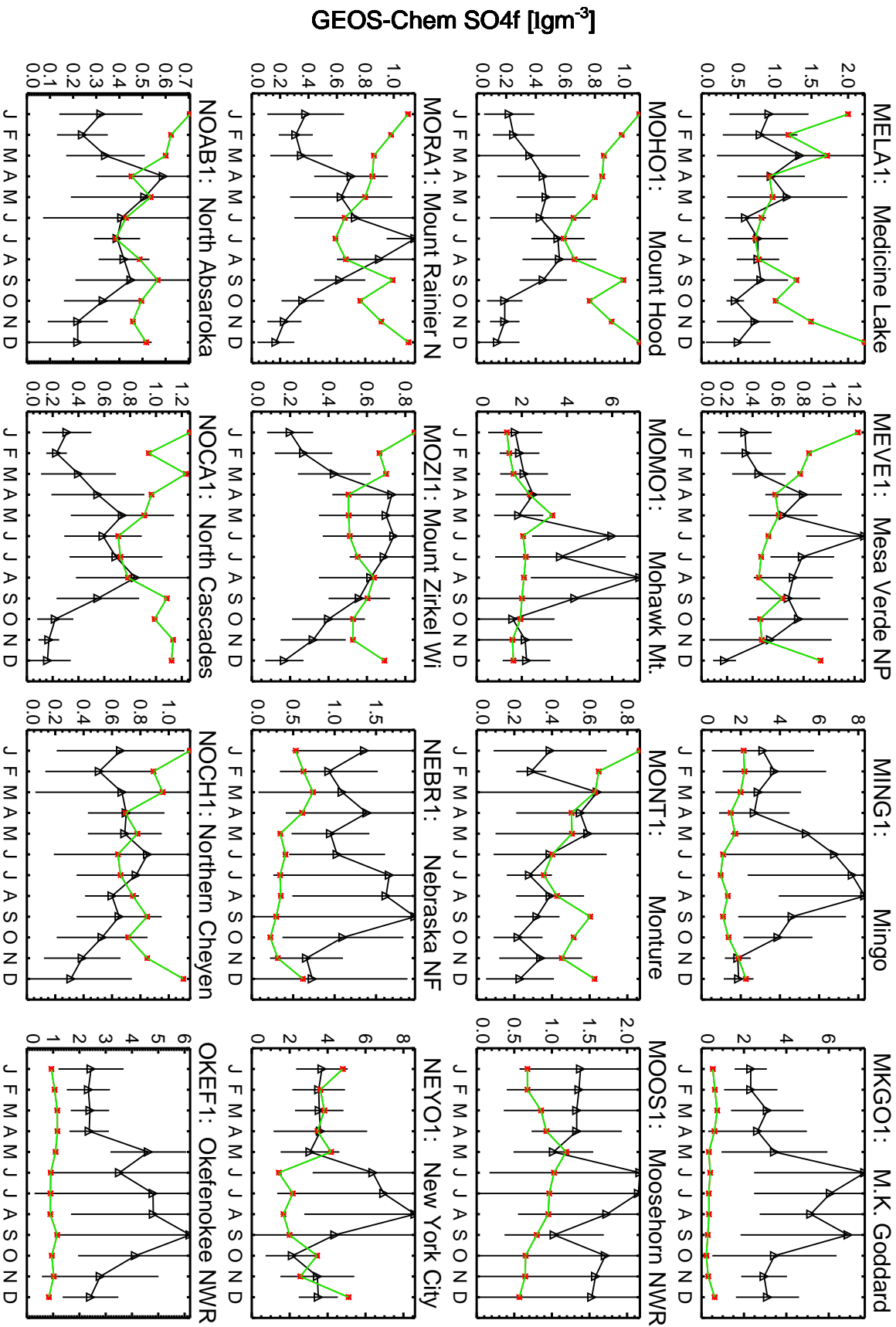
IMPROVE SO₄f [Igm⁻³]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



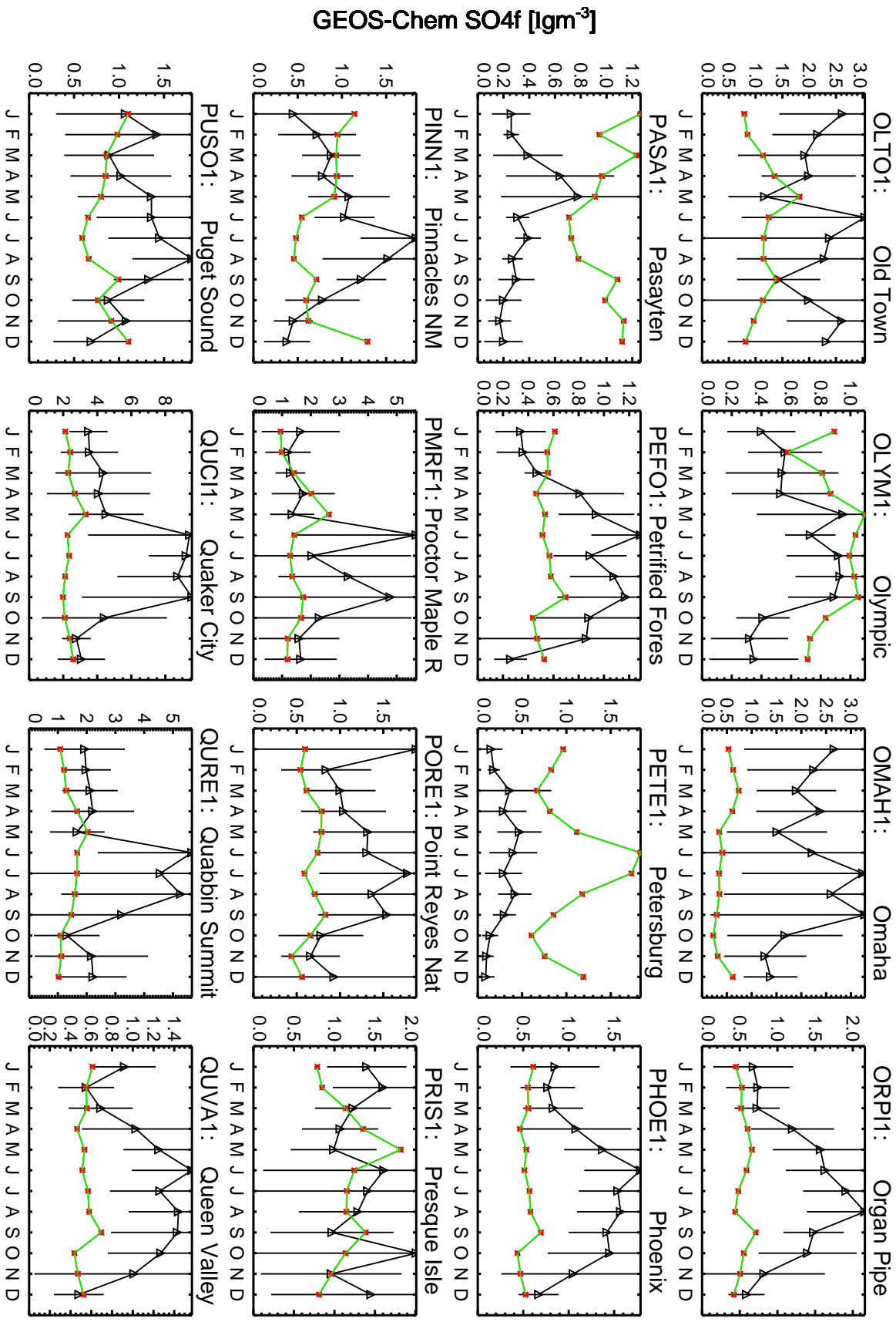
IMPROVE SO₄f [Igm⁻³]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



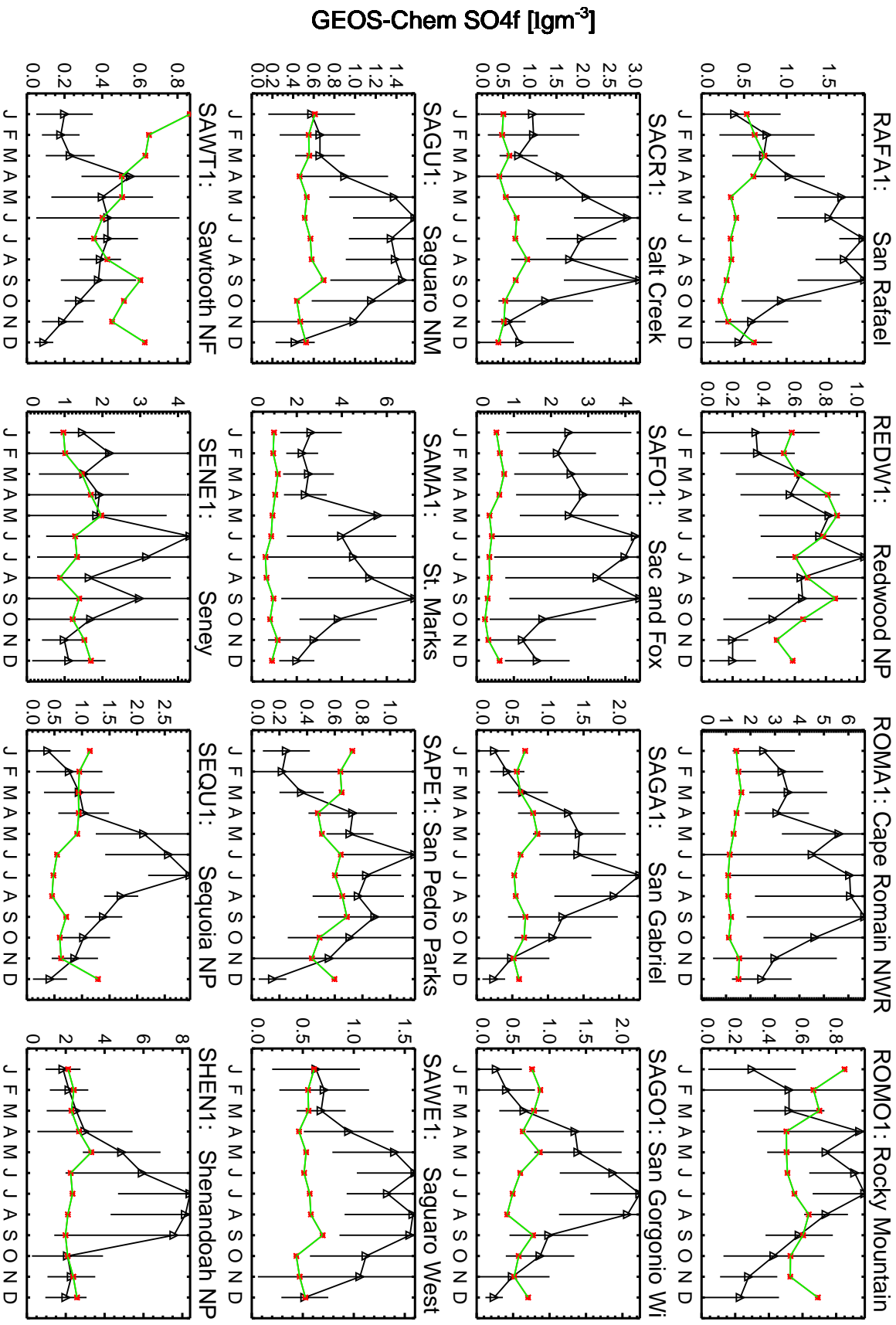
IMPROVE SO₄f [$\mu\text{g m}^{-3}$]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



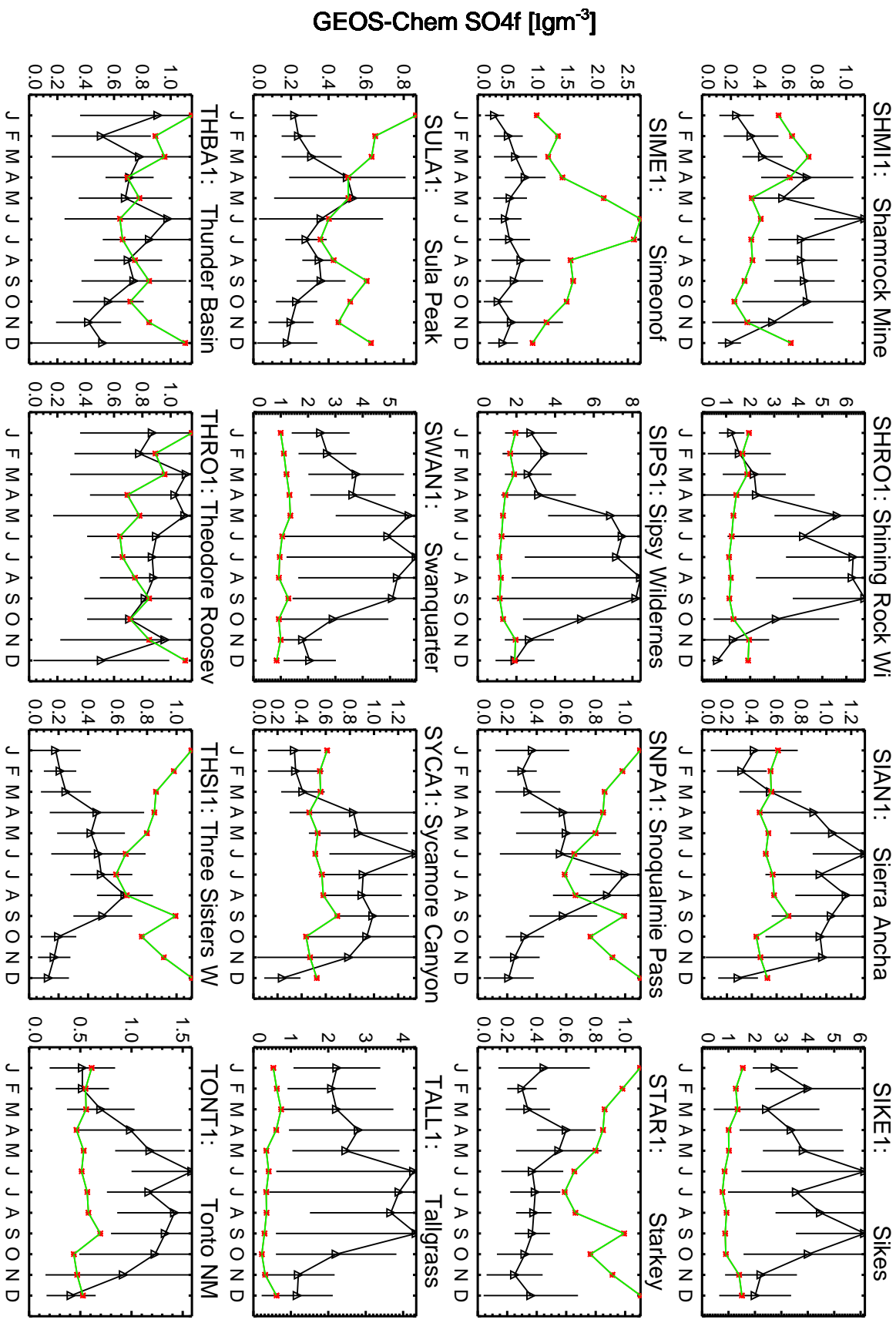
IMPROVE SO₄f [$\mu\text{g m}^{-3}$]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



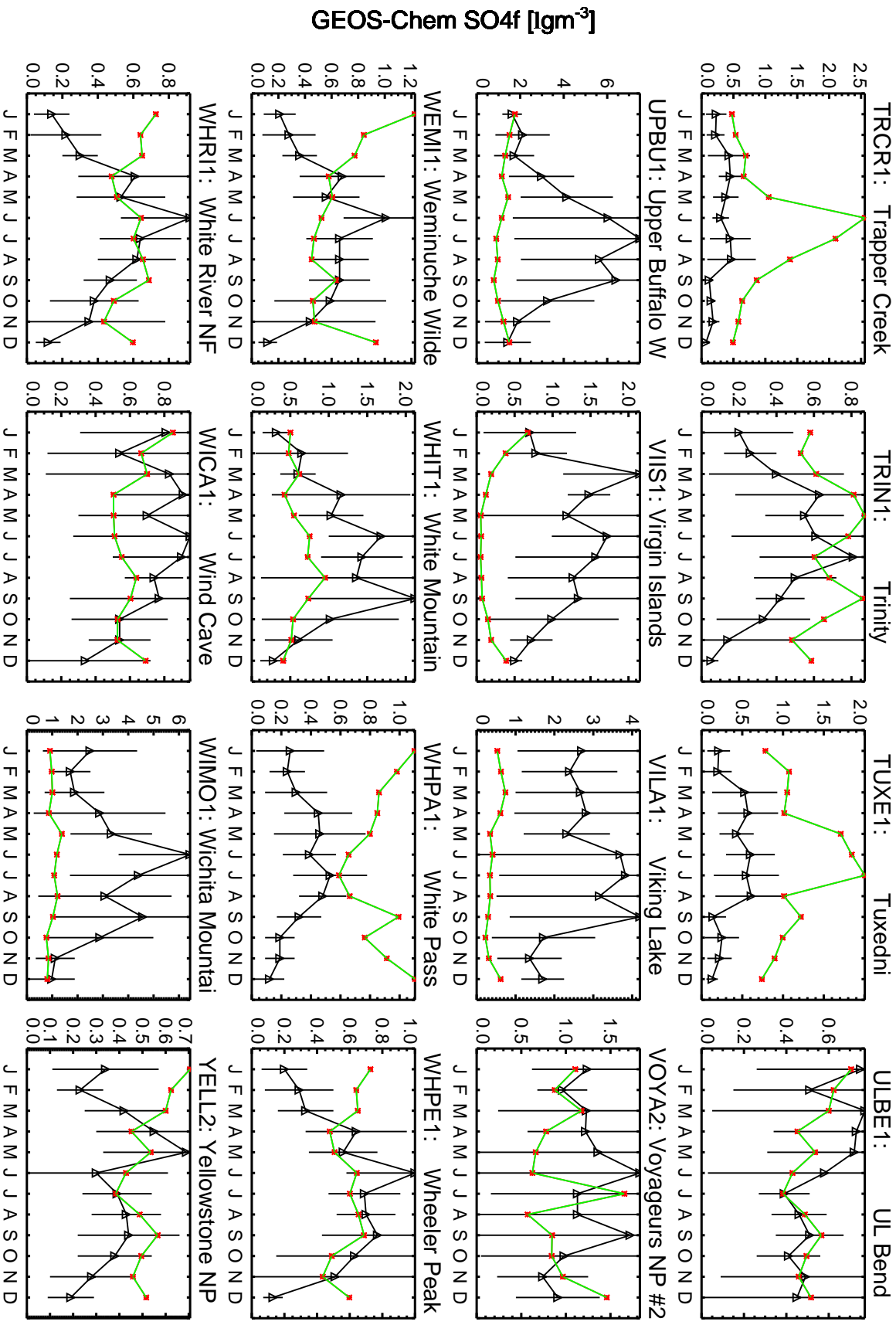
IMPROVE SO₄f [Igm⁻³]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



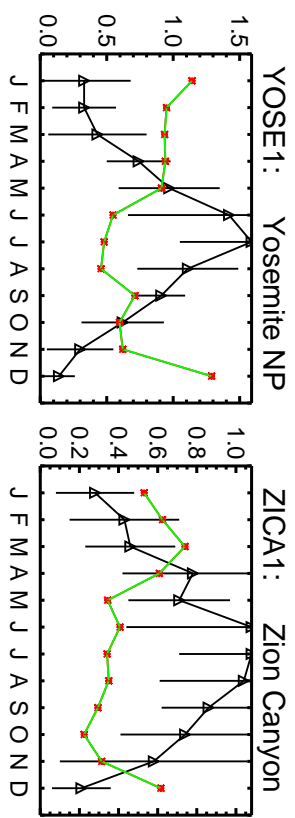
IMPROVE SO₄f [$\mu\text{g m}^{-3}$]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



IMPROVE SO₄f [$\mu\text{g m}^{-3}$]

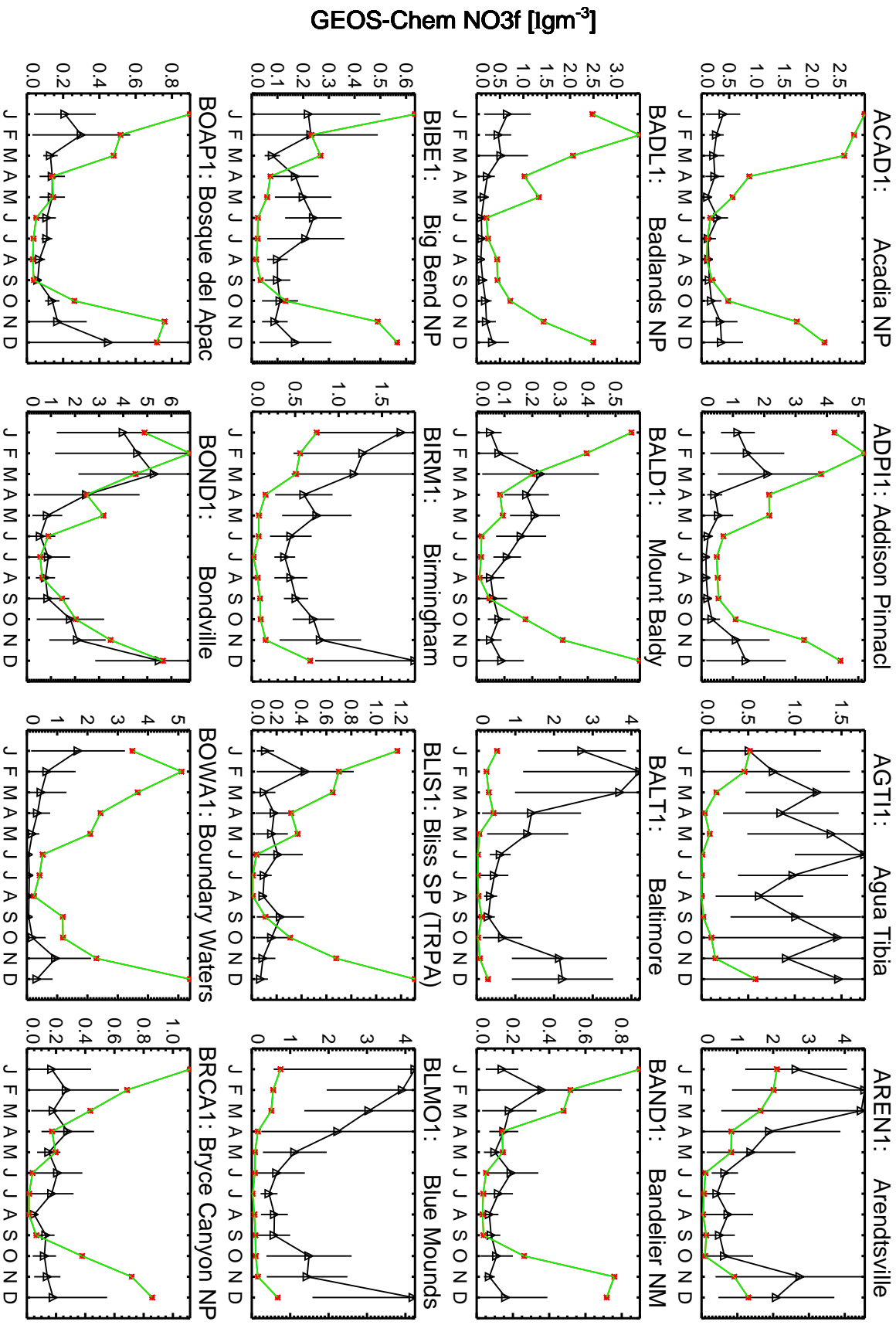
Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



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

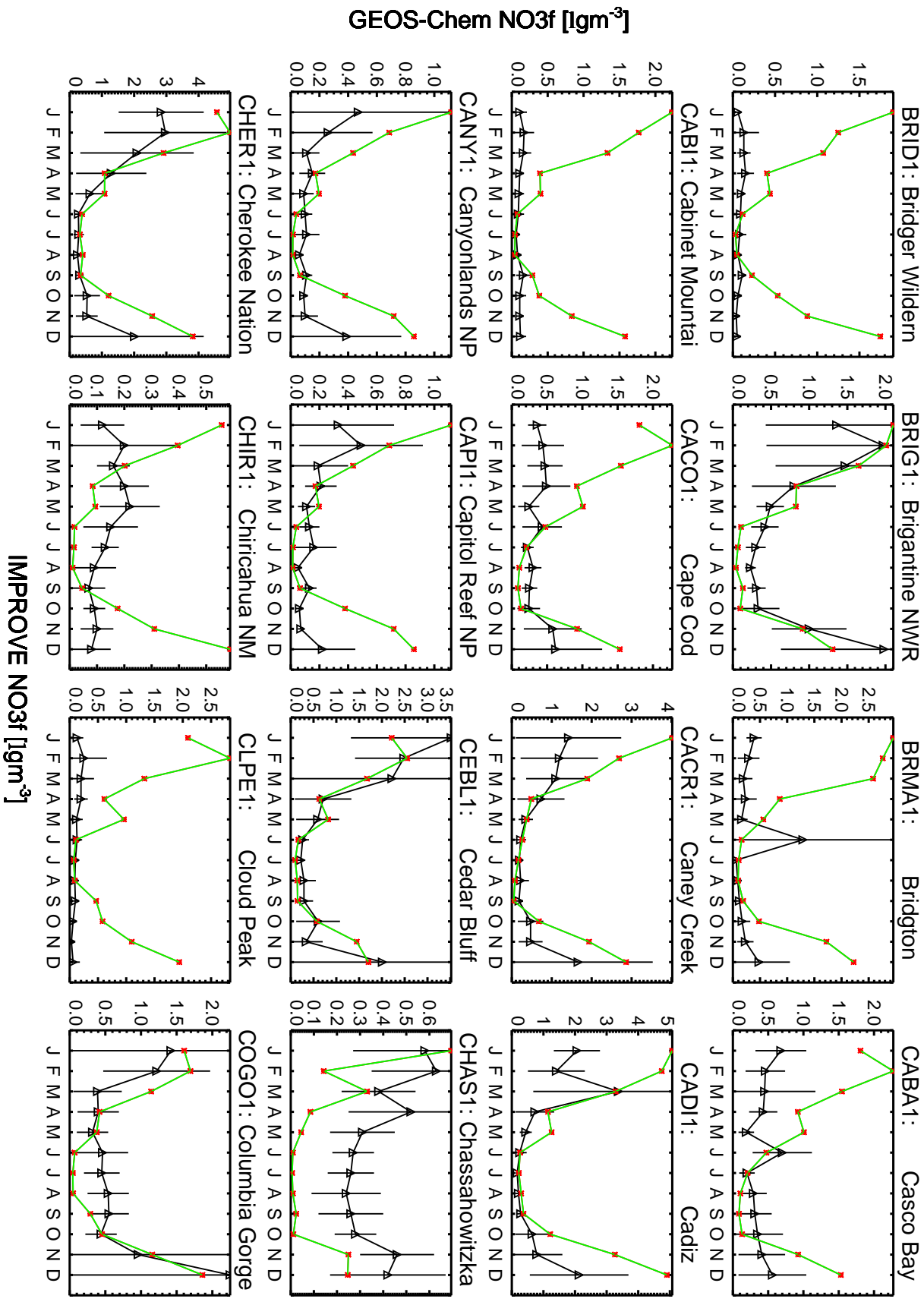
IMPROVE SO4f [$\mu\text{g m}^{-3}$]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)

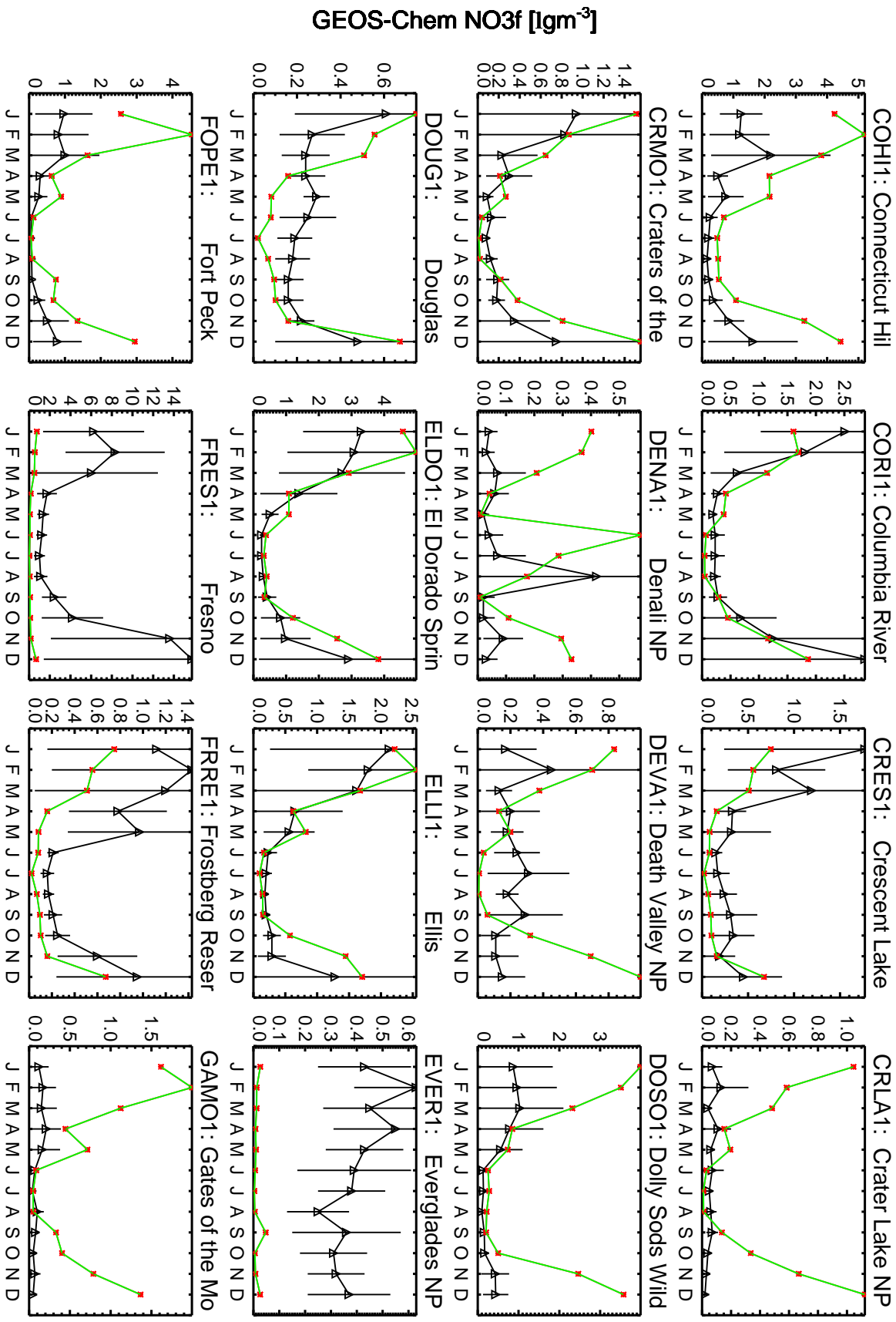


IMPROVE NO₃f [Igm⁻³]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)

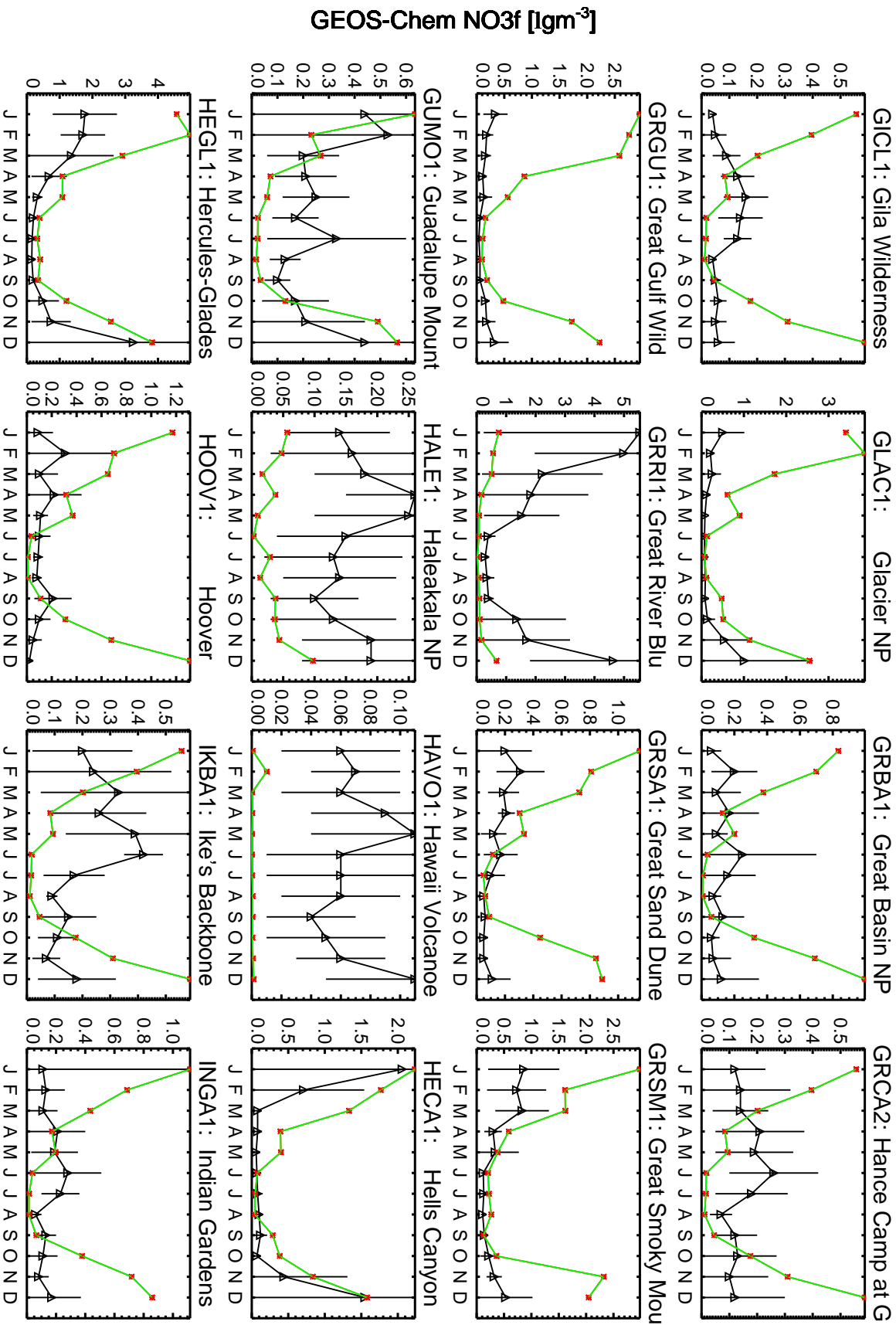


Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



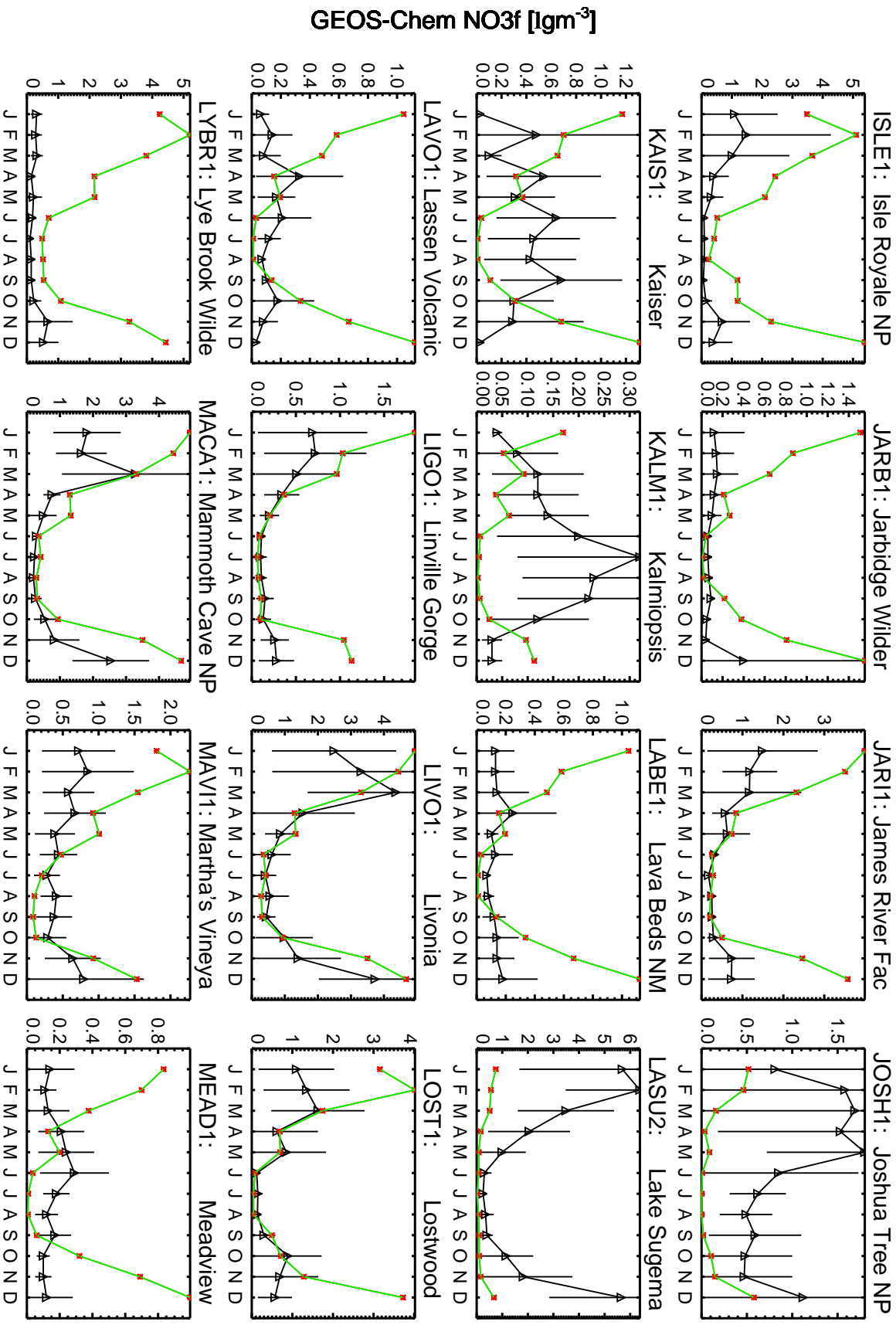
IMPROVE NO₃f [$\mu\text{g m}^{-3}$]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



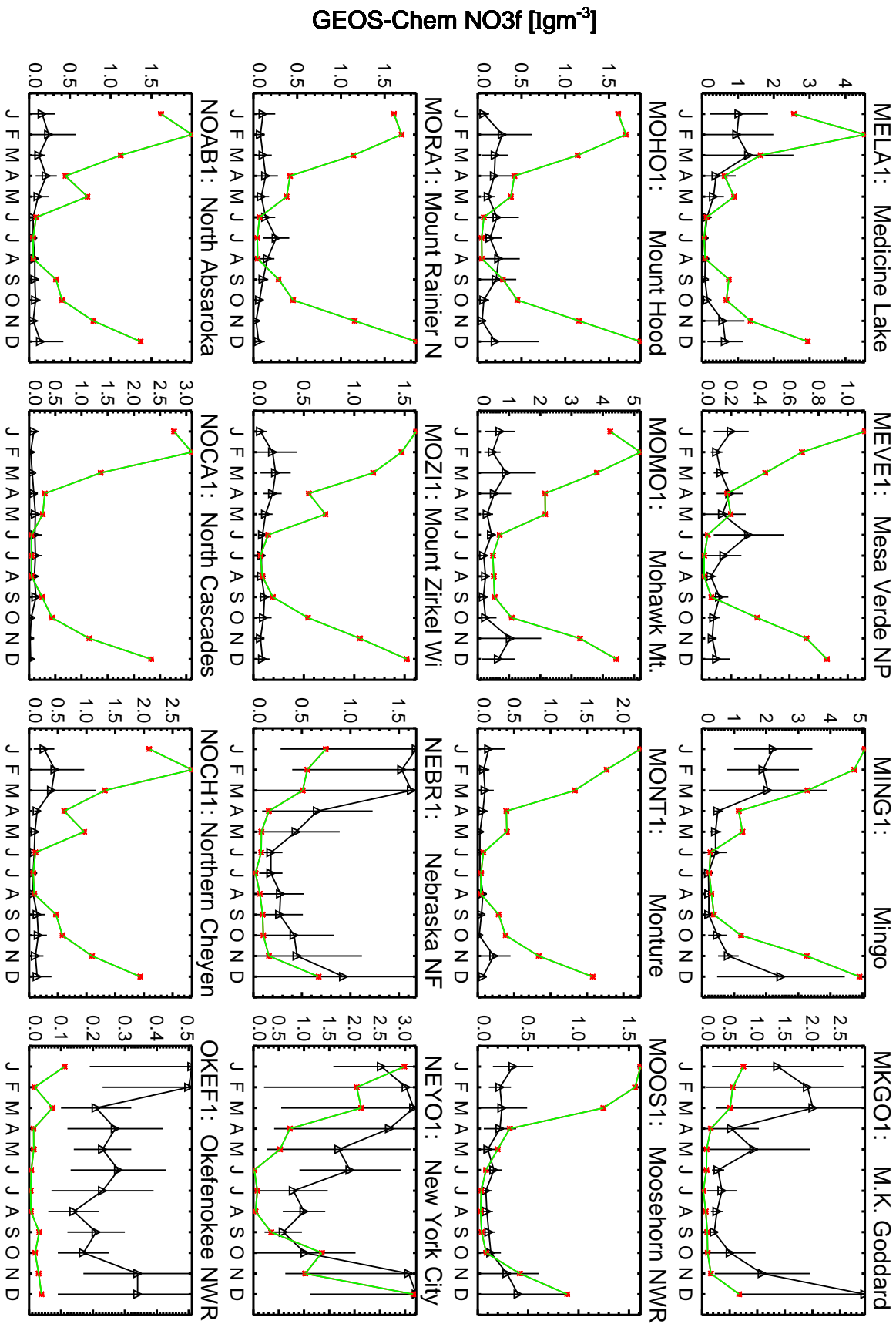
IMPROVE NO₃f [Igm⁻³]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



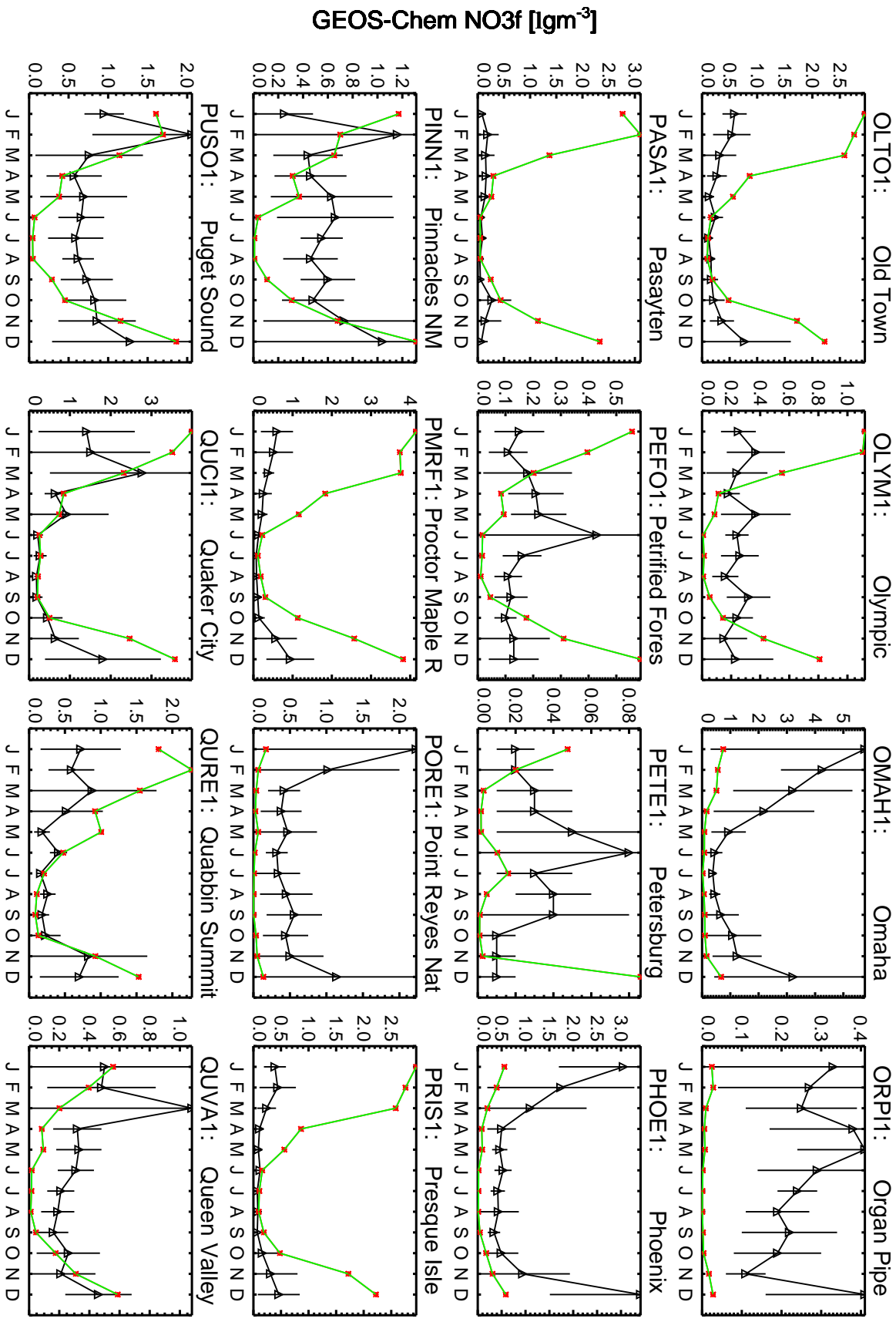
IMPROVE NO₃f [Igm⁻³]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



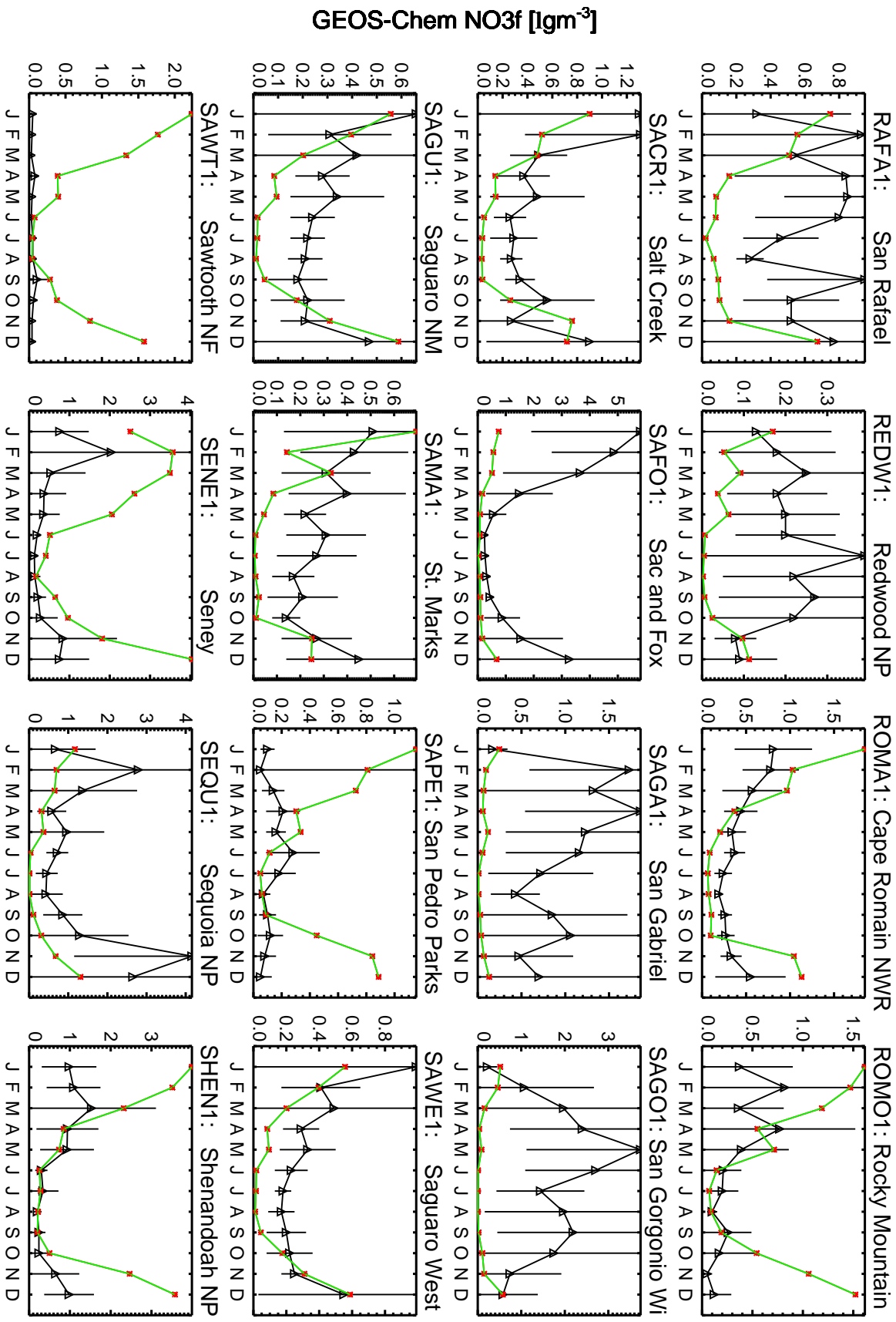
IMPROVE NO₃f [$\mu\text{g m}^{-3}$]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



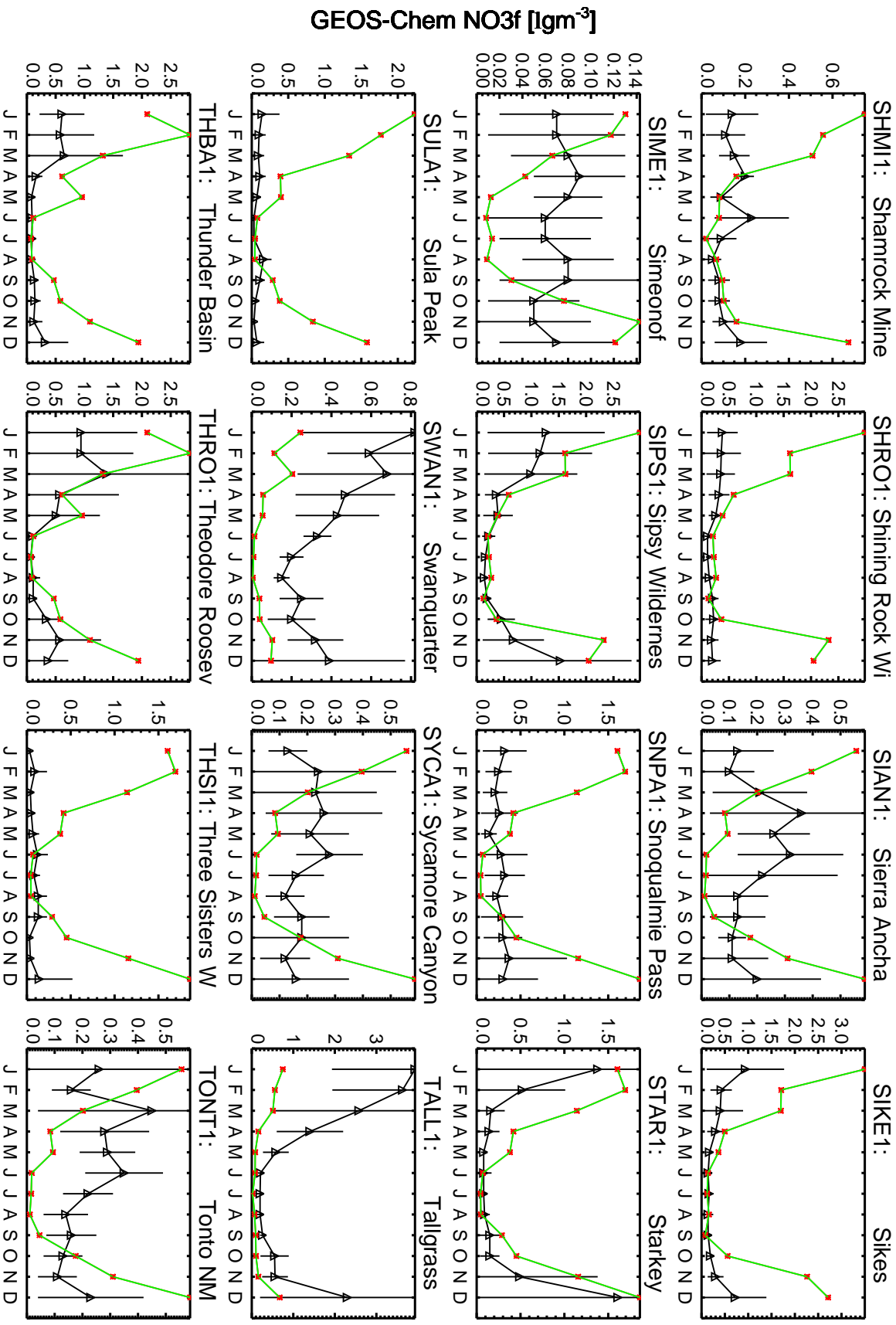
IMPROVE NO₃f [Igm⁻³]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



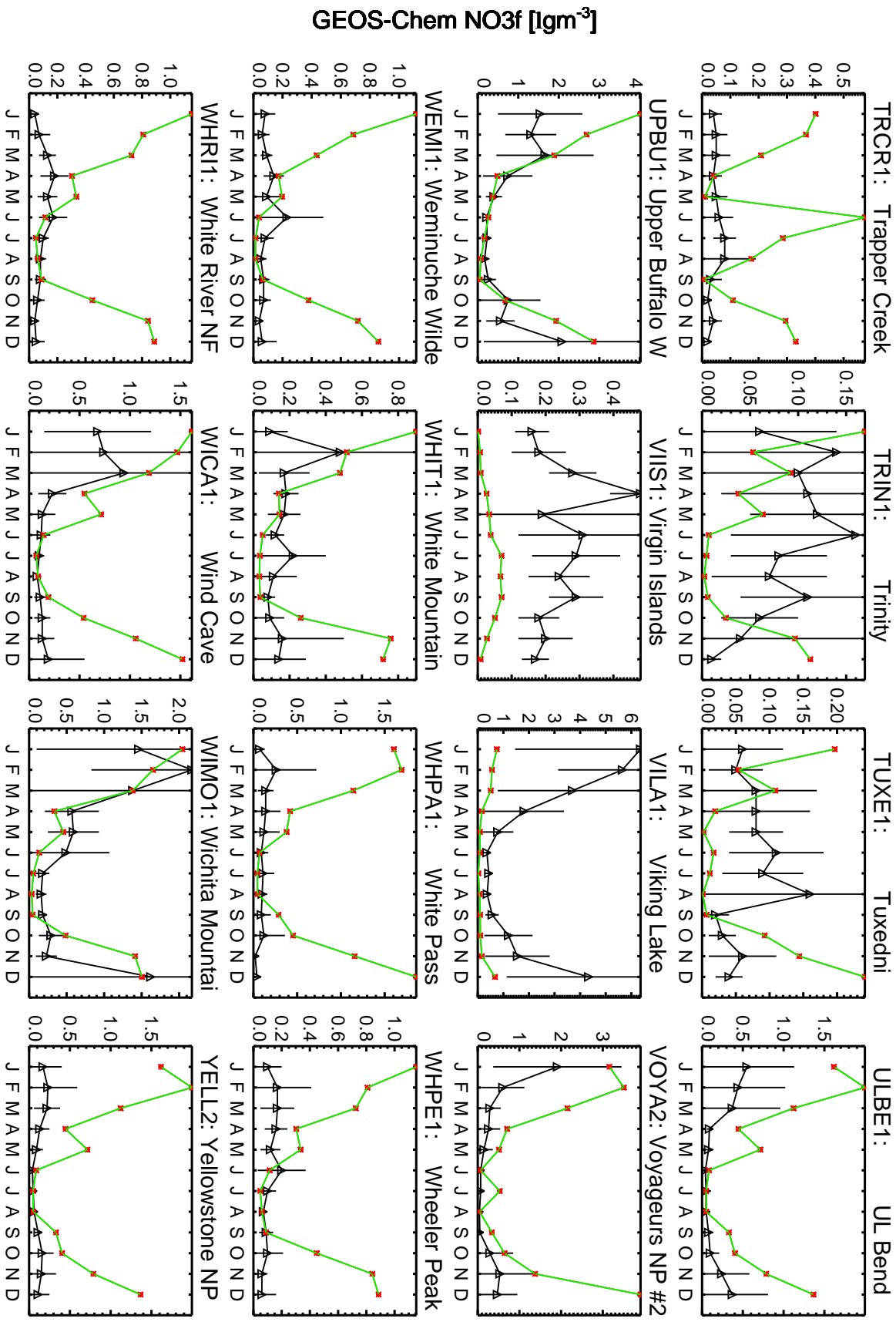
IMPROVE NO₃f [Igm⁻³]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



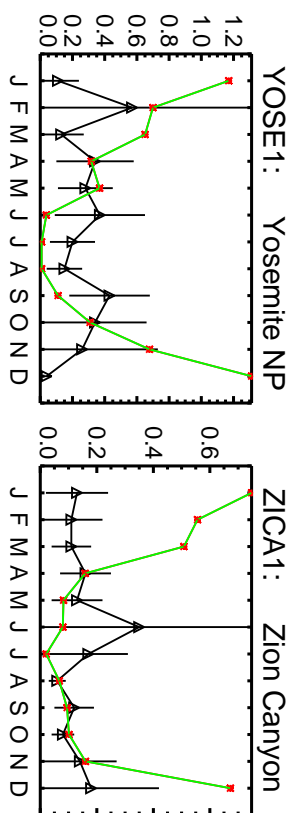
IMPROVE NO₃f [Igm⁻³]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



IMPROVE NO₃f [Igm⁻³]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)

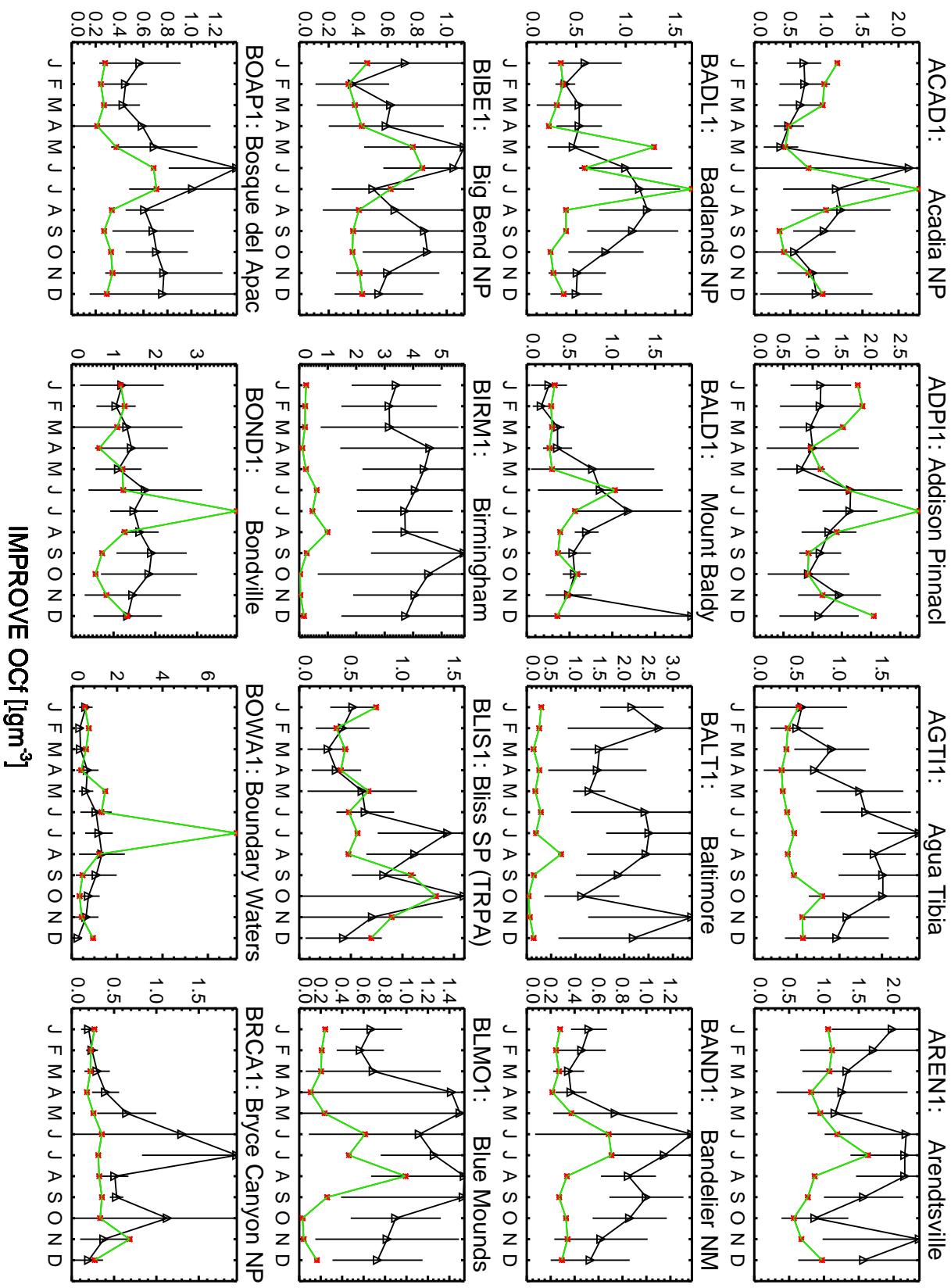


GEOS-Chem NO3f [$\mu\text{g m}^{-3}$]

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

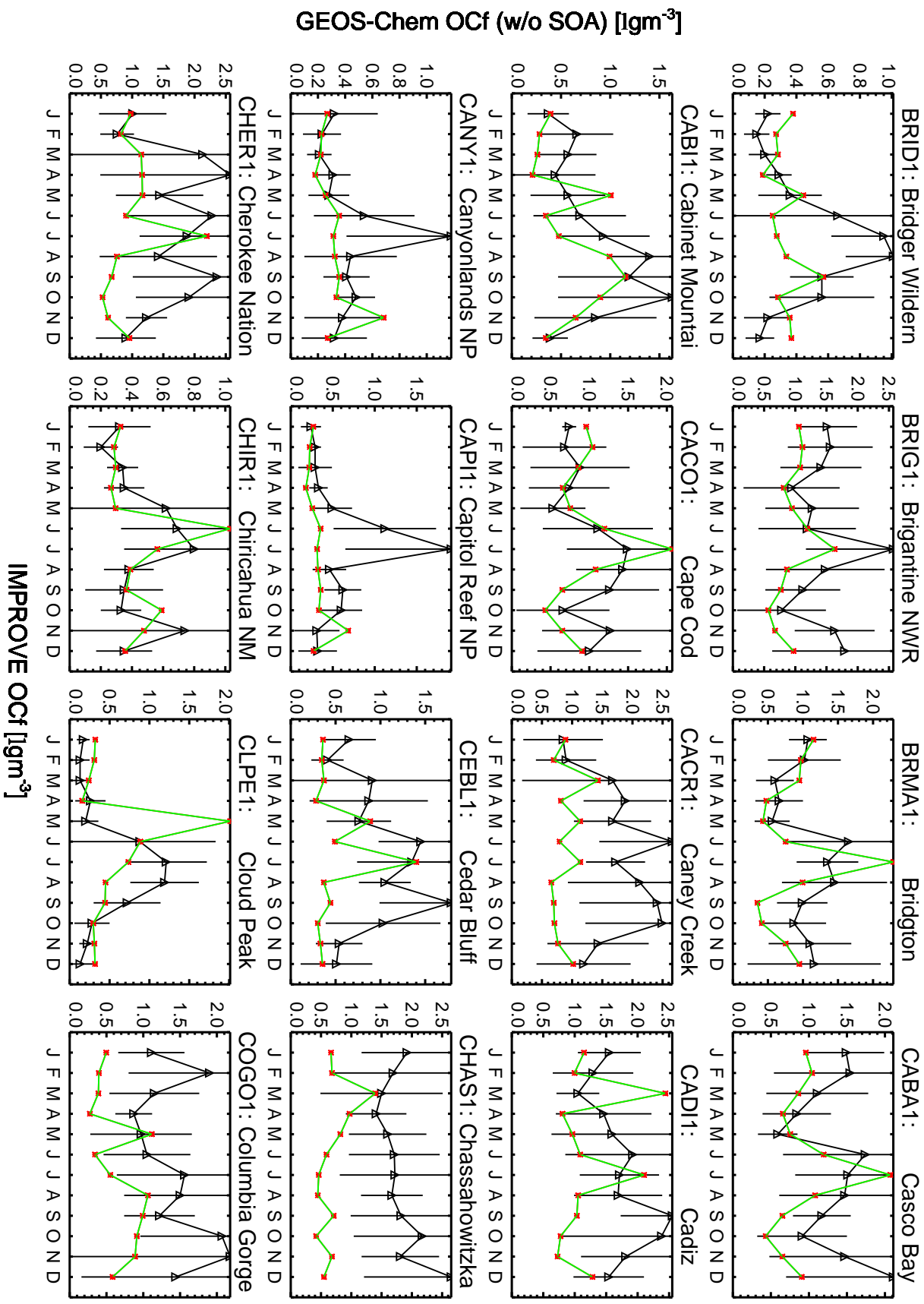
Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)

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

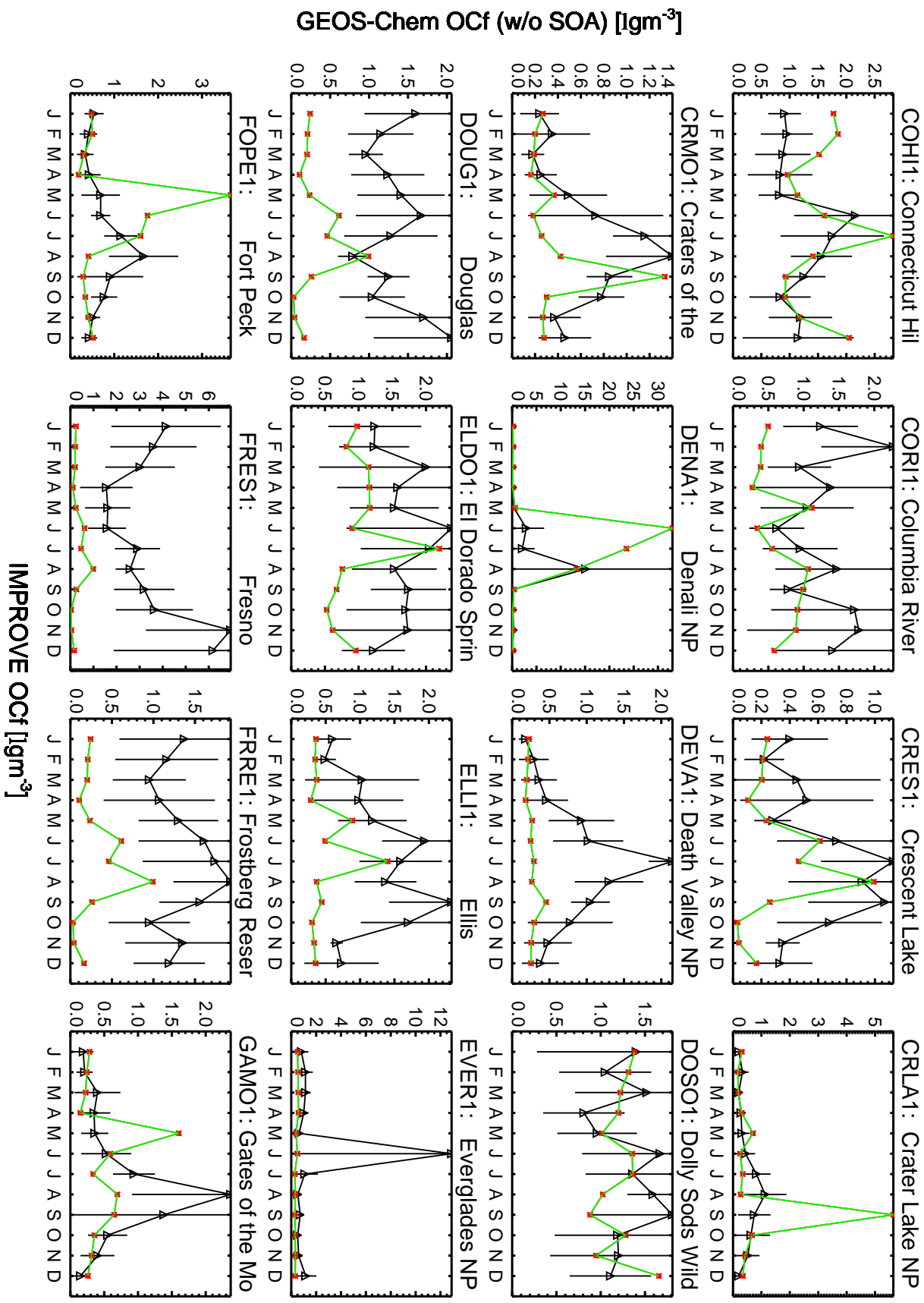


IMPROVE OCf [$\mu\text{g m}^{-3}$]

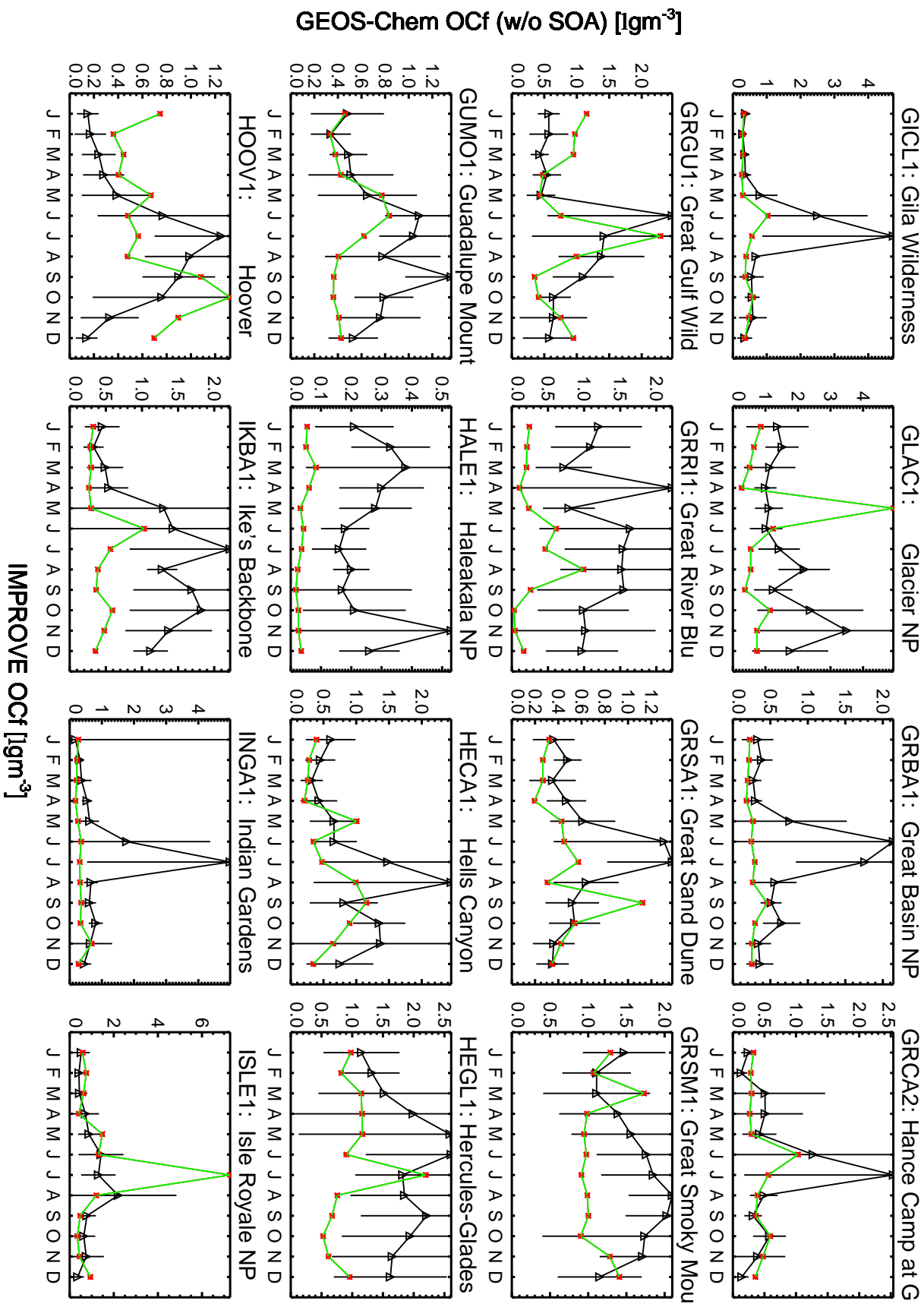
Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)

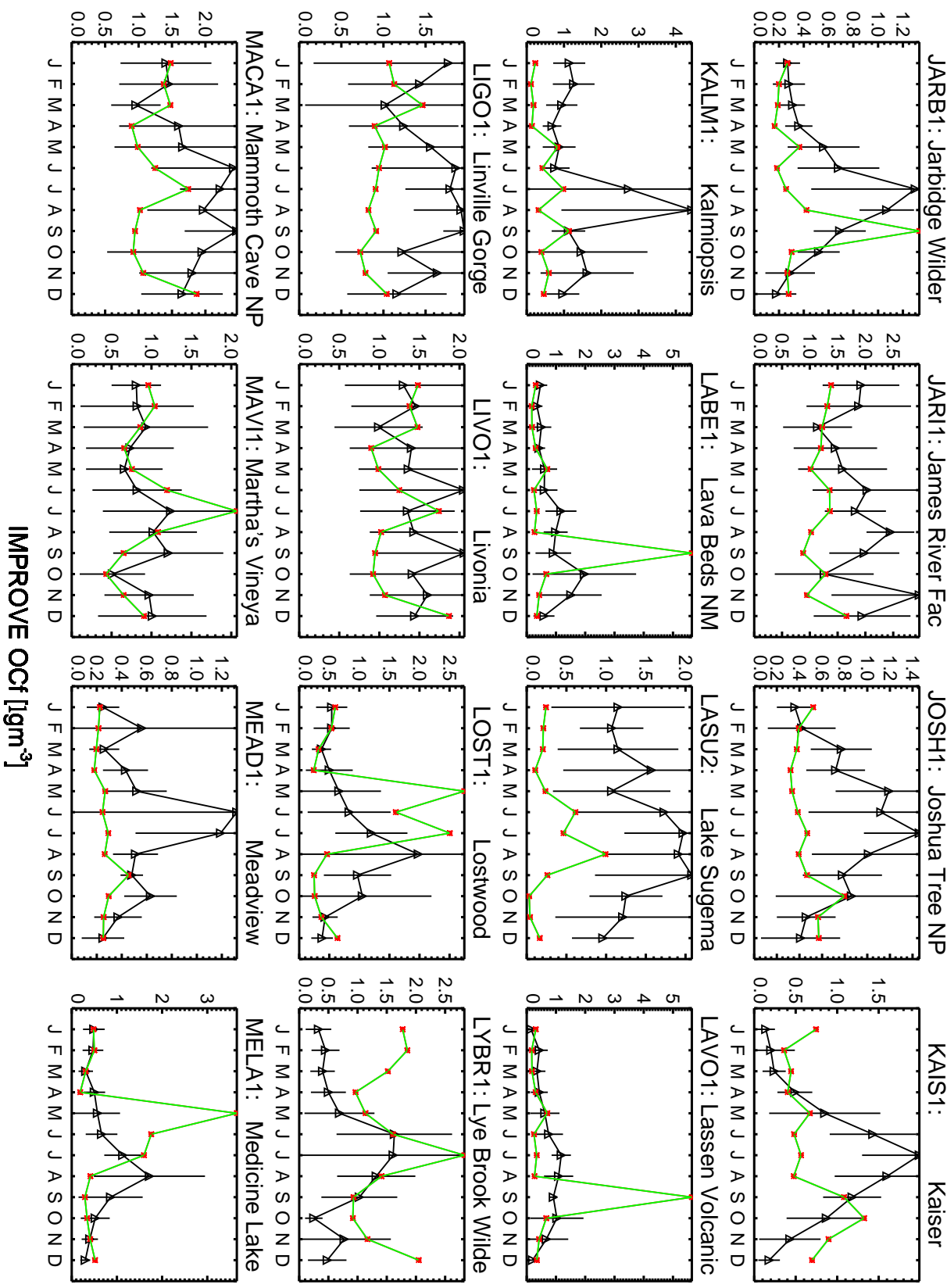


Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



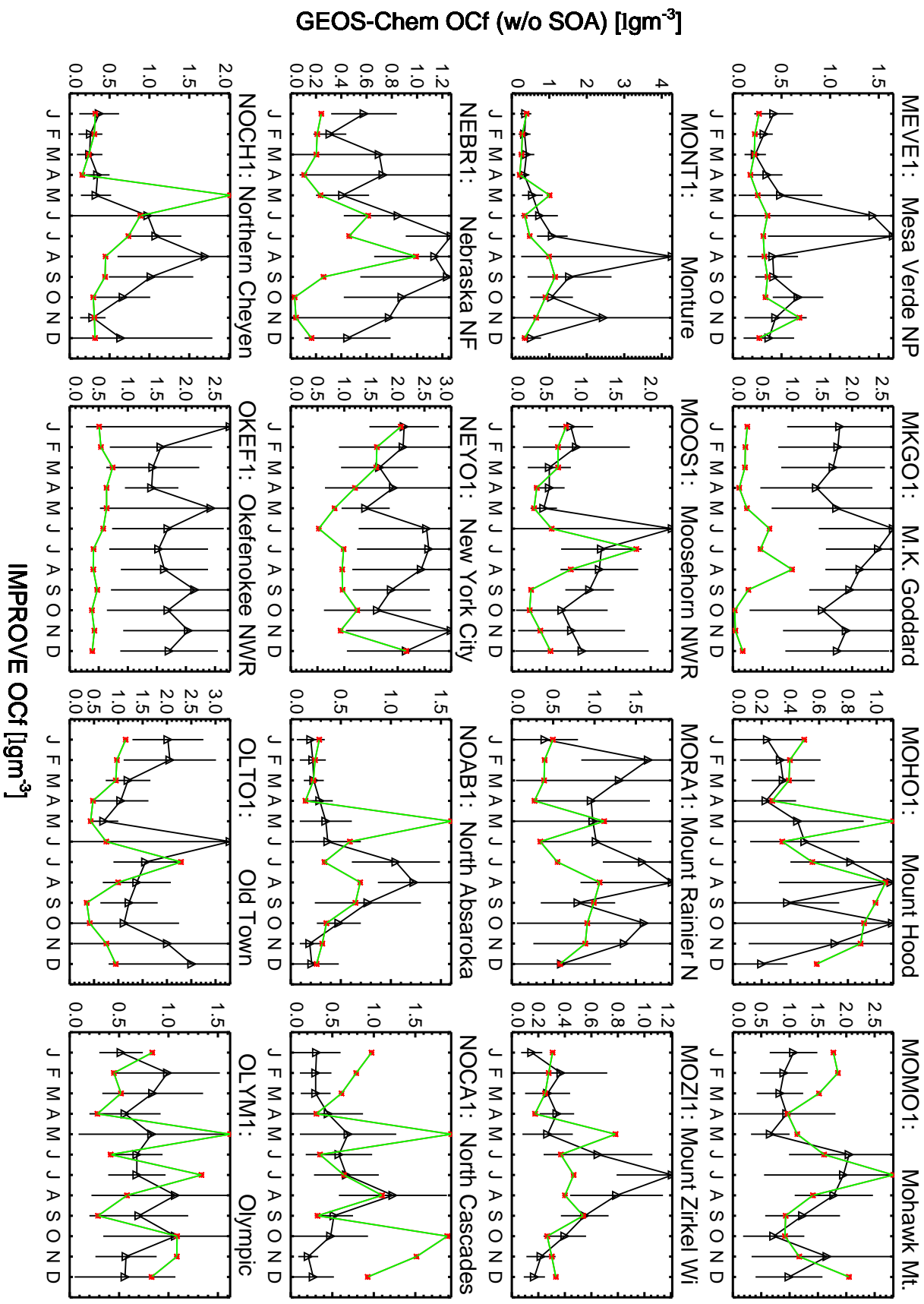
Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)

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

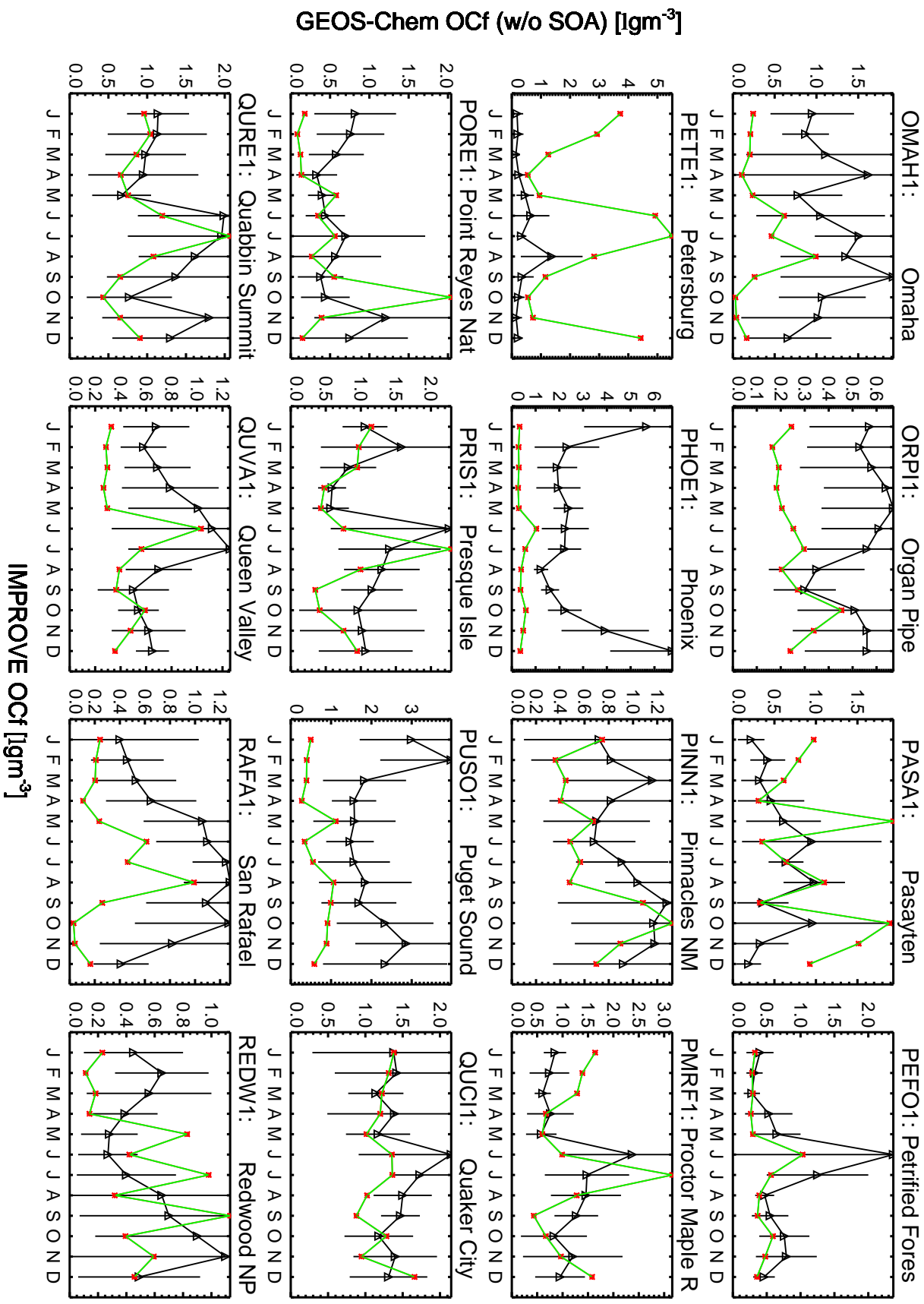


IMPROVE OCf [$\mu\text{g m}^{-3}$]

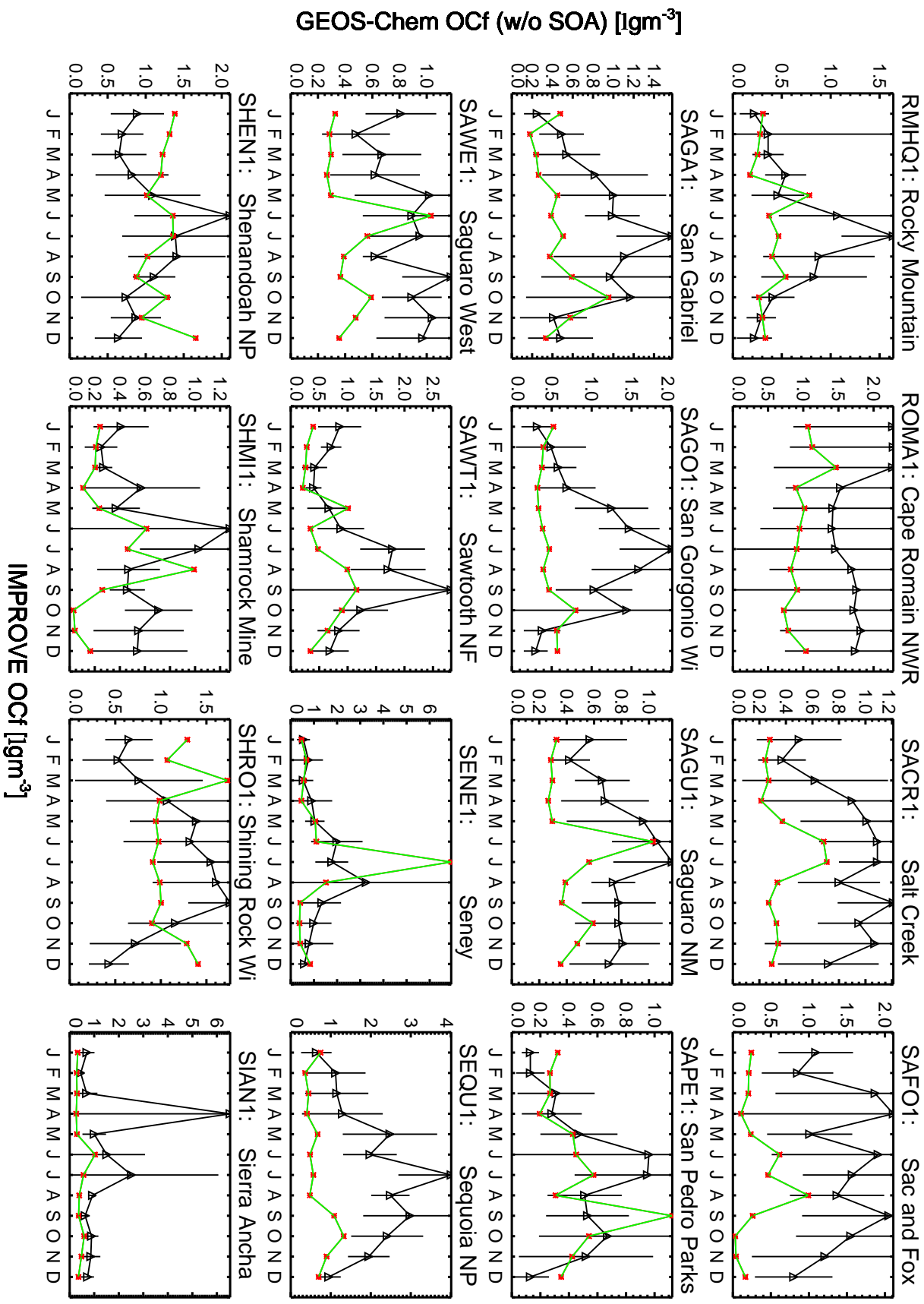
Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



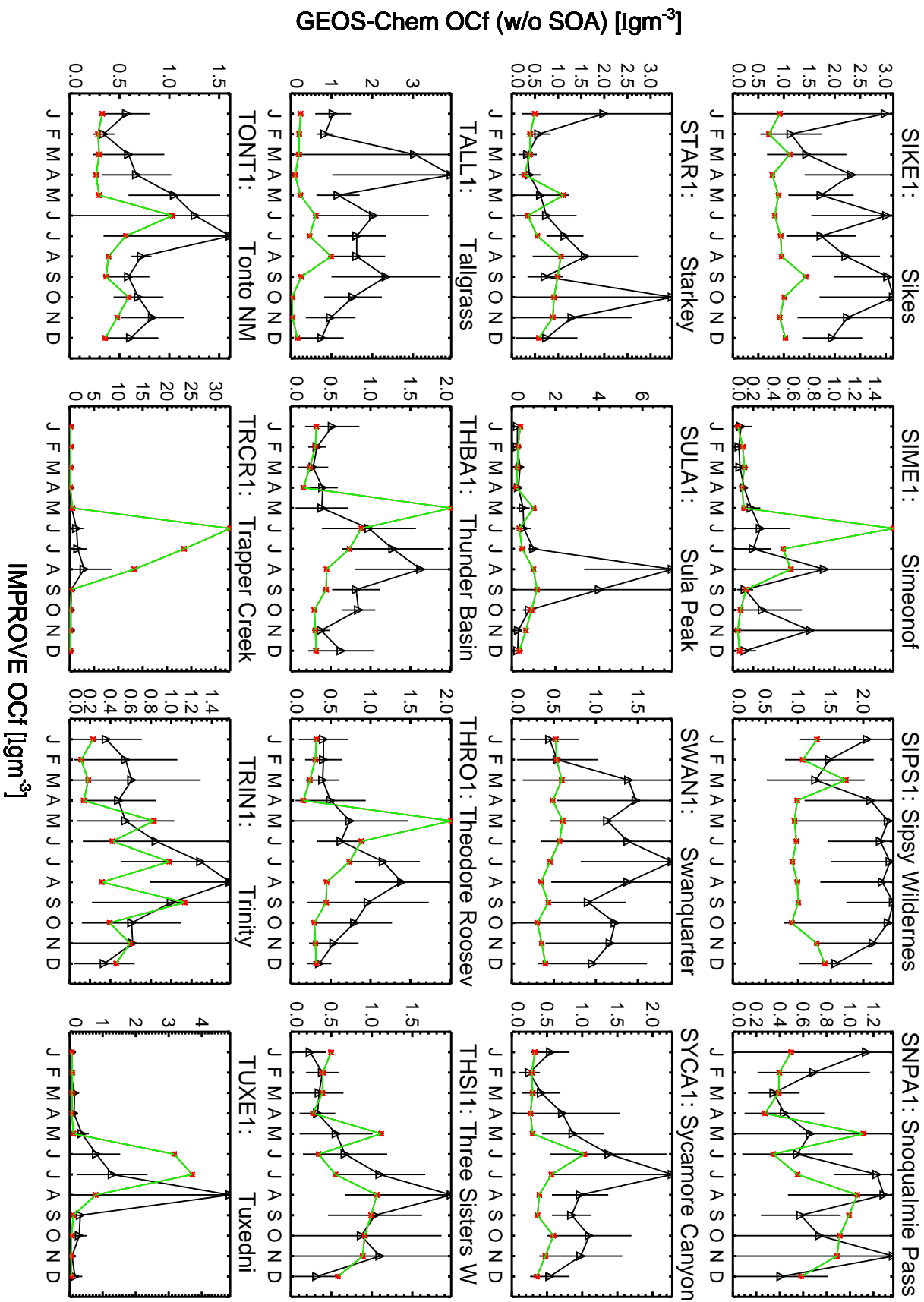
Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)

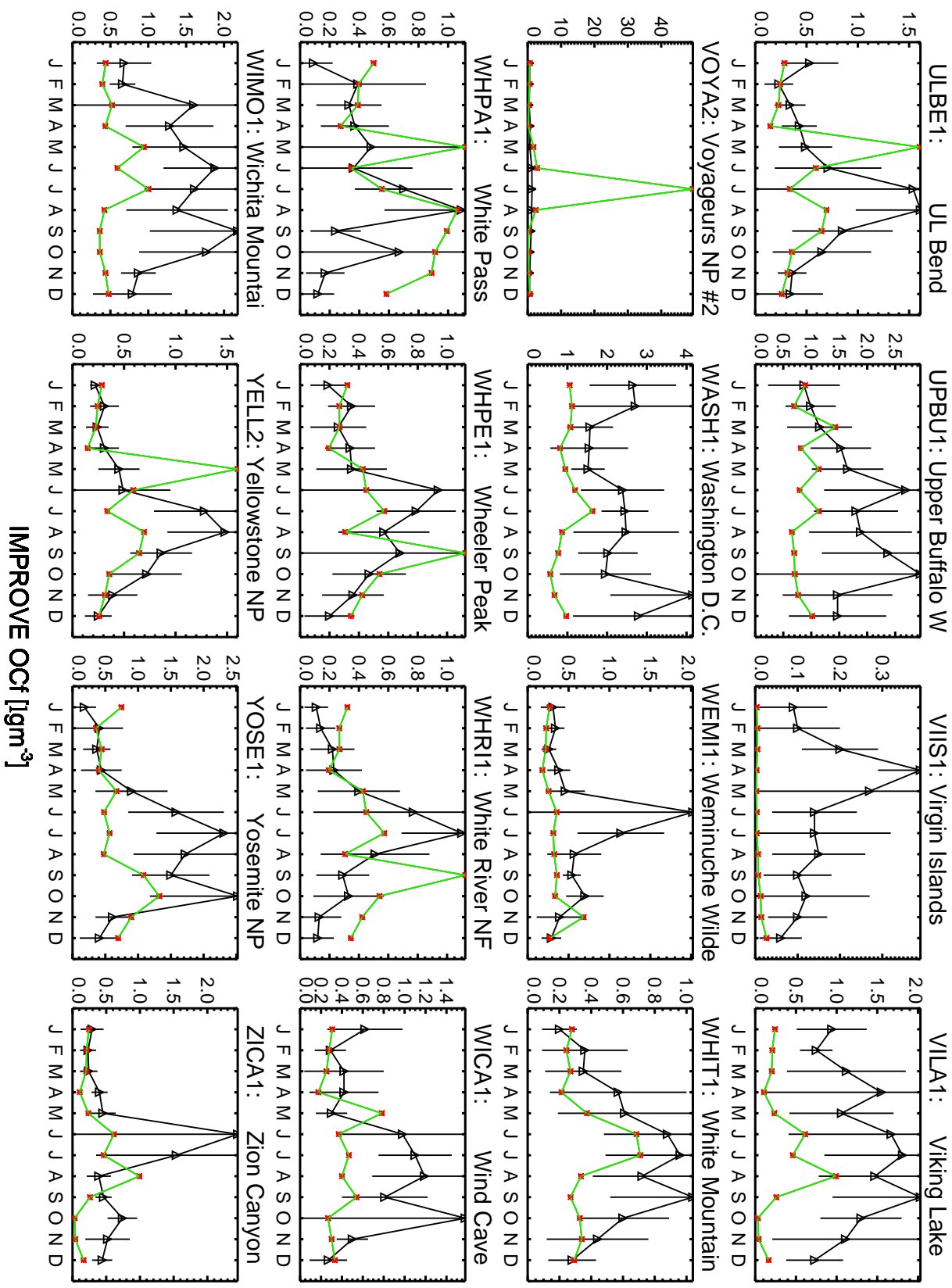


Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



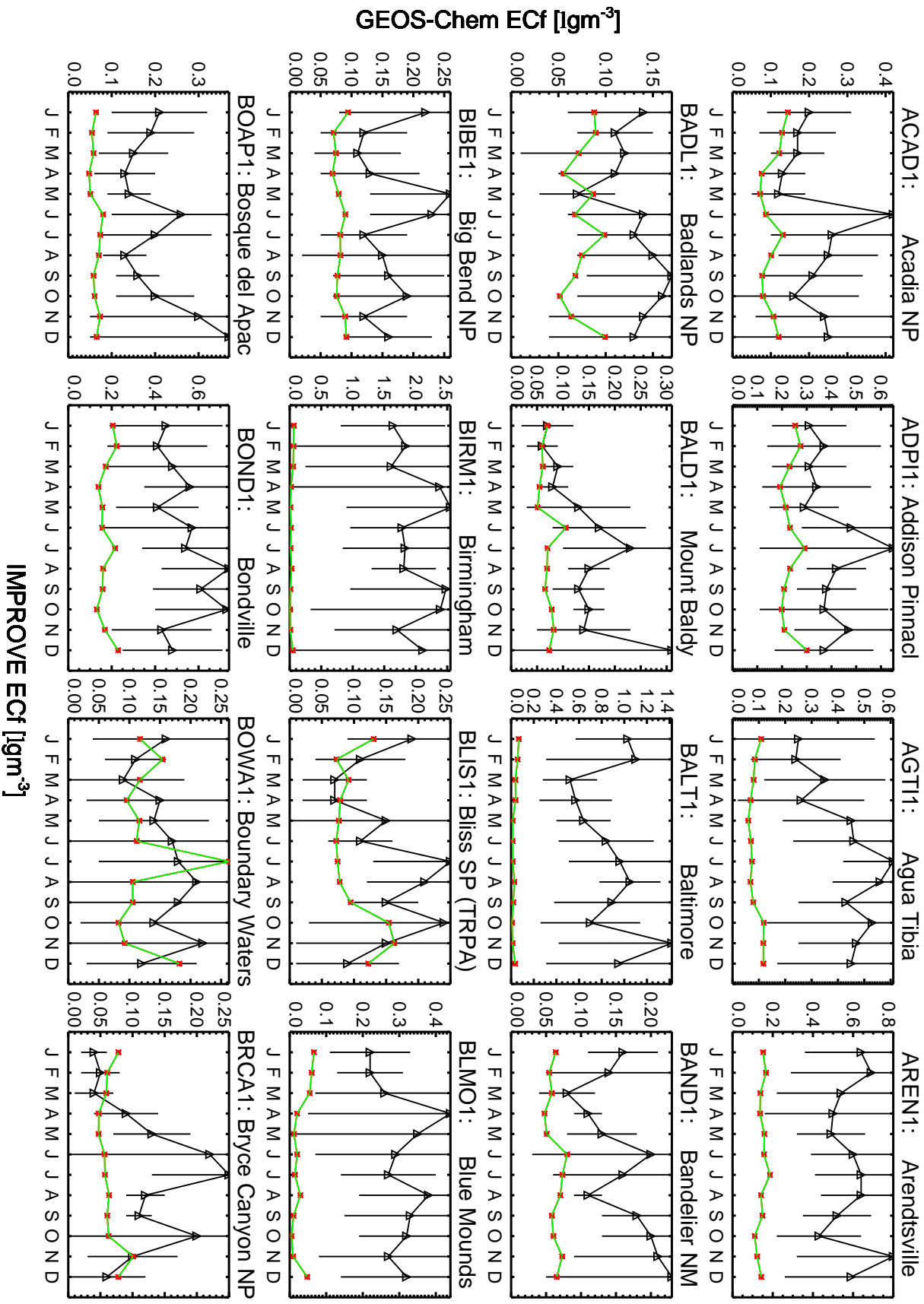
Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)

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

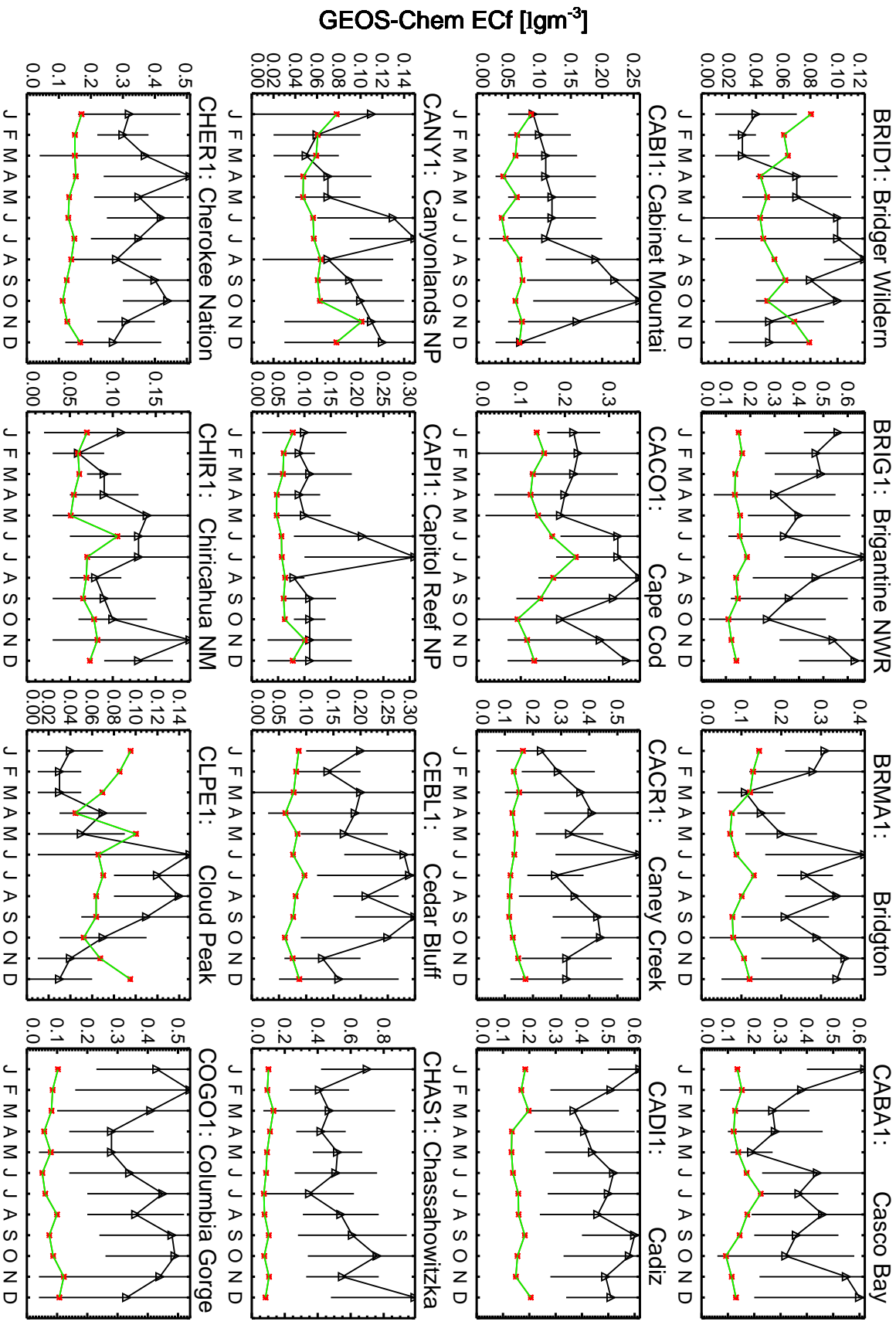


IMPROVE OCf [$\mu\text{g m}^{-3}$]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)

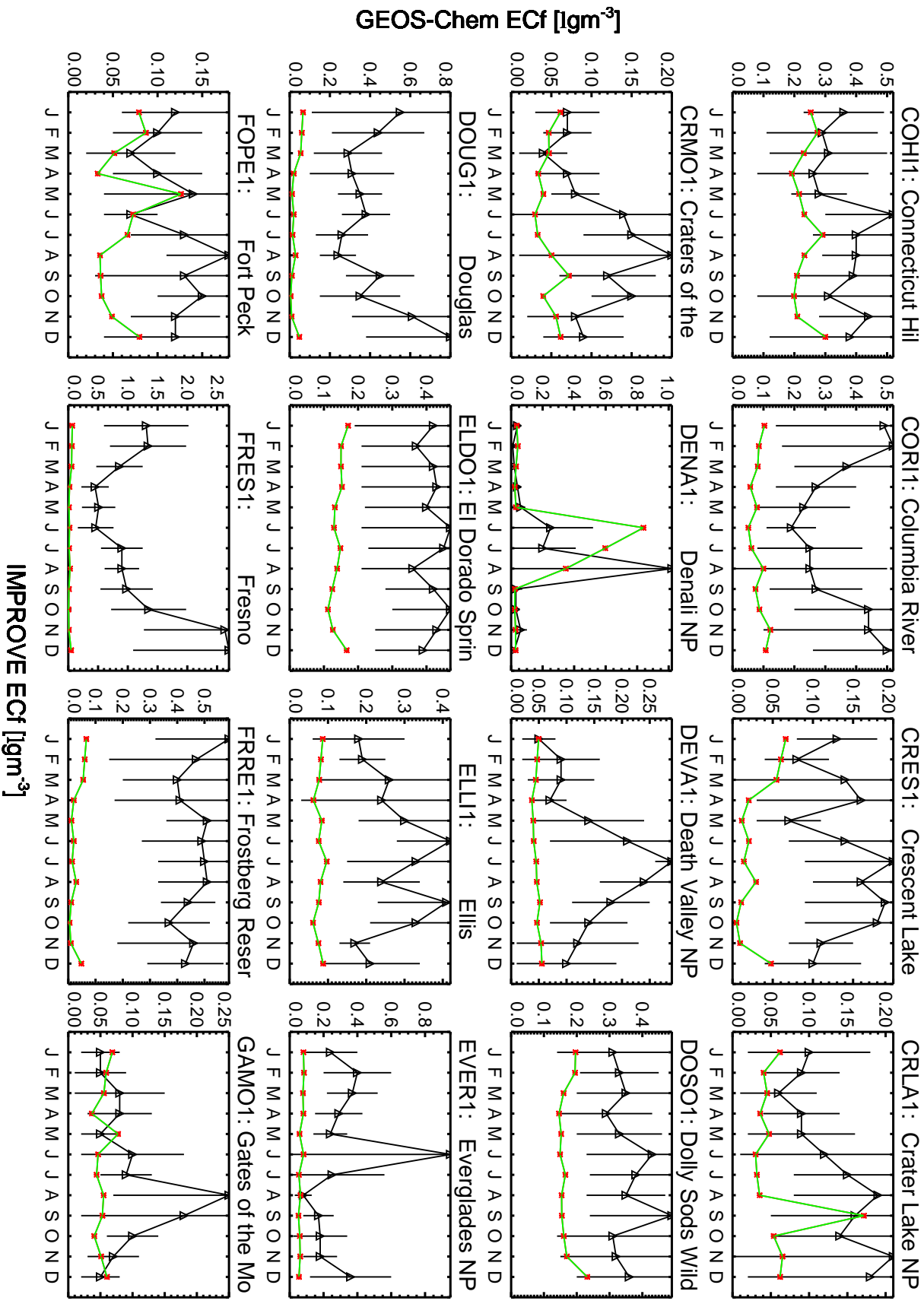


Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)

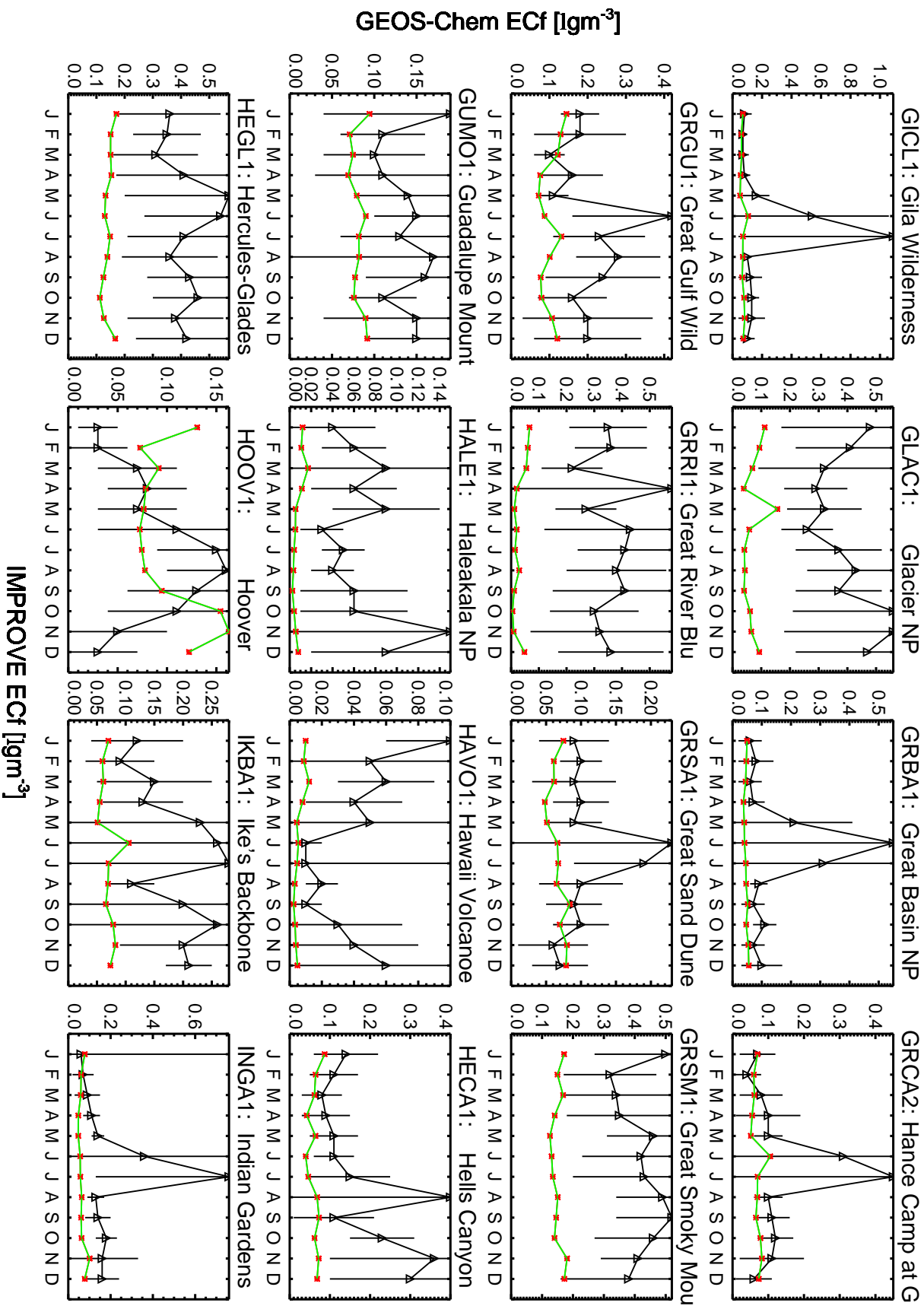


IMPROVE ECf [$\mu\text{g m}^{-3}$]

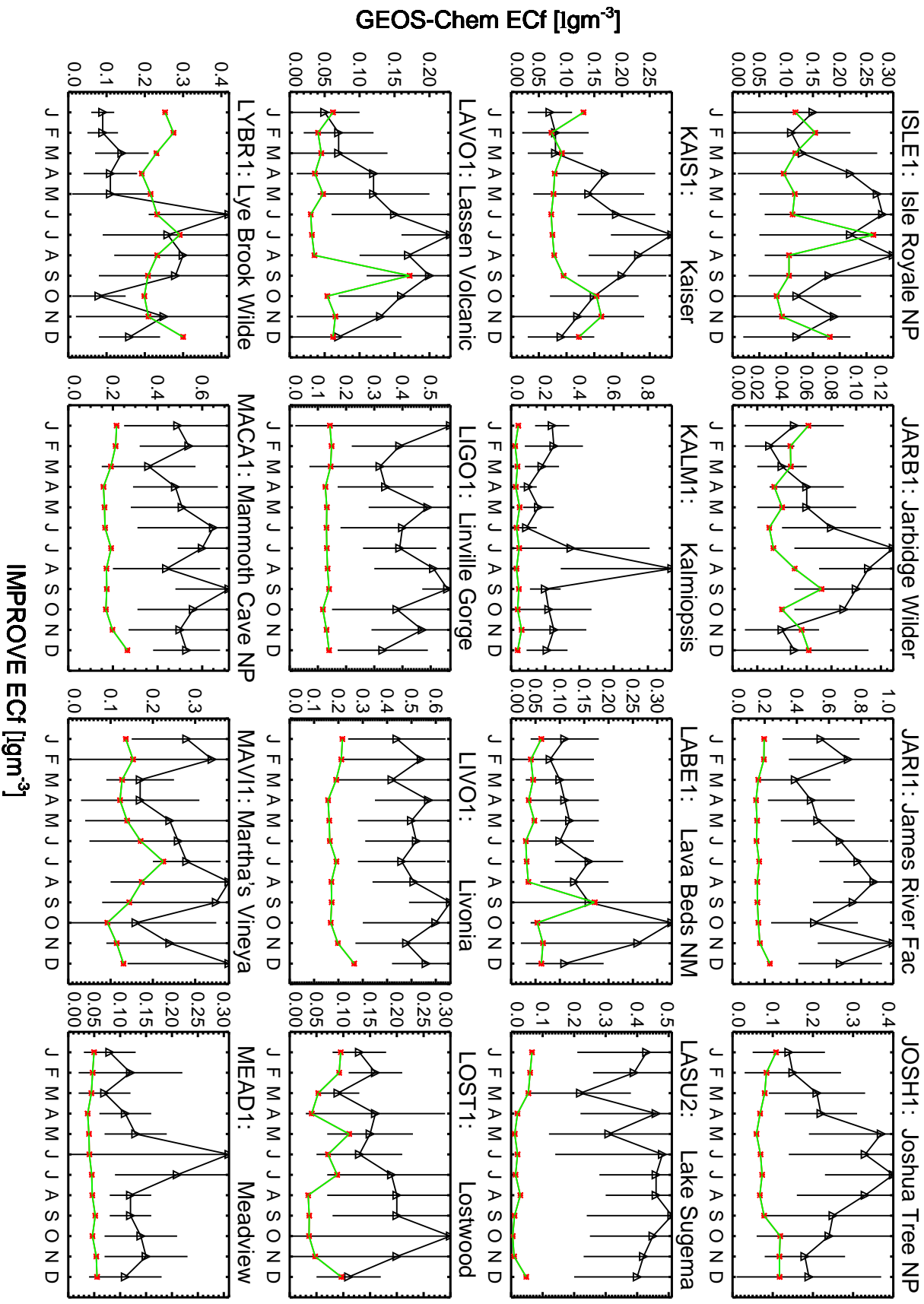
Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)

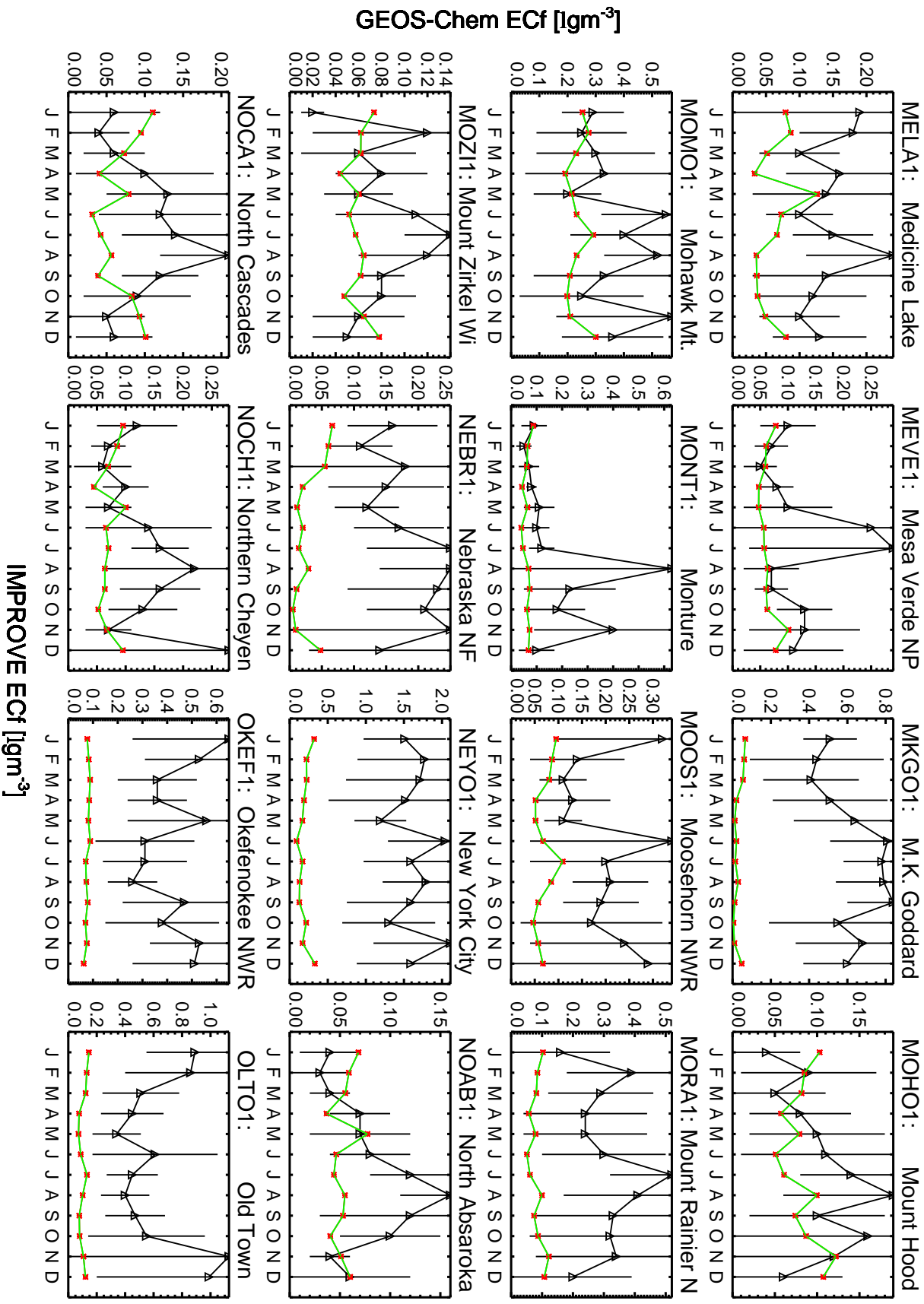


Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



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

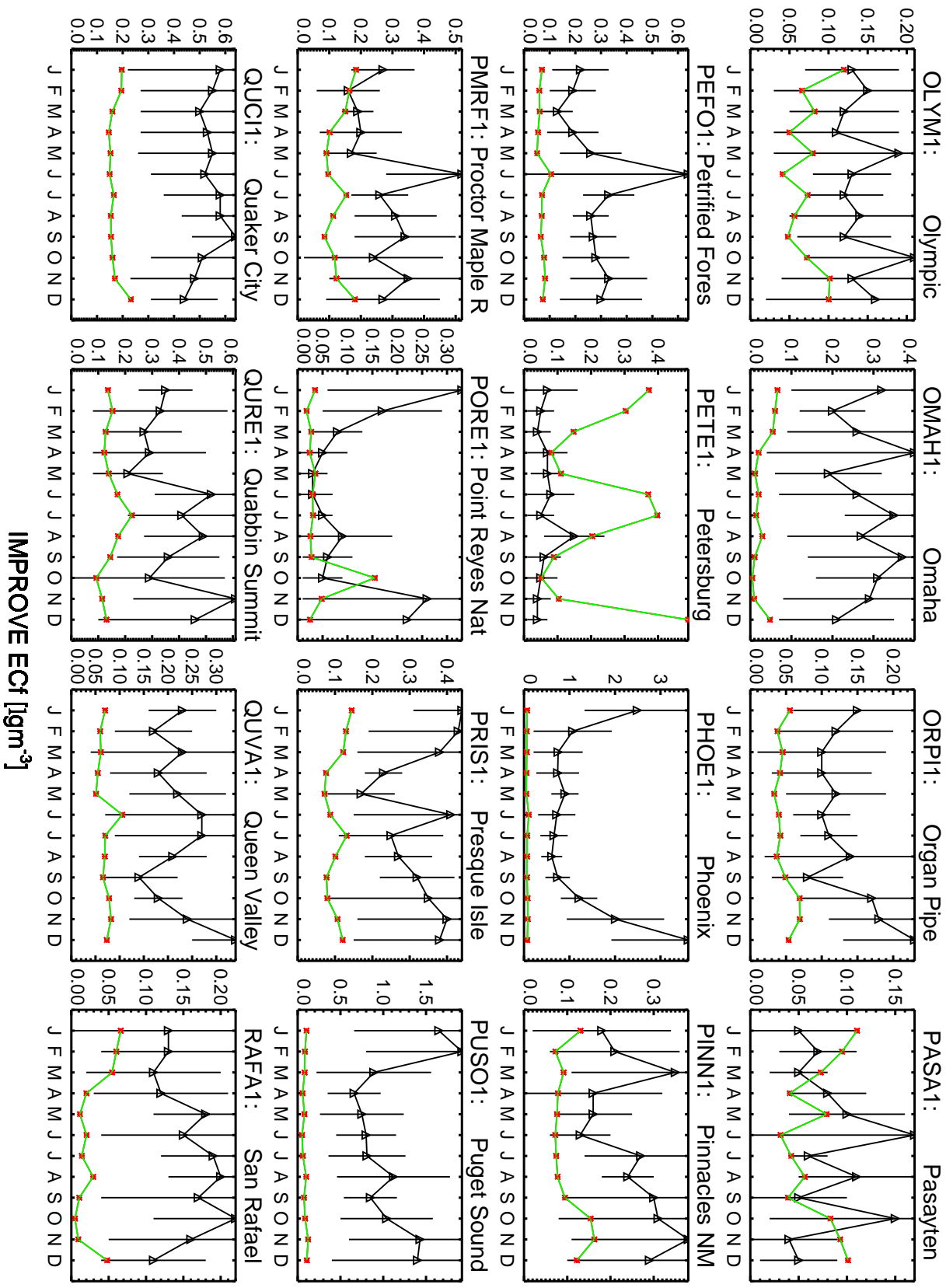
Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



IMPROVE ECf [μgm^{-3}]

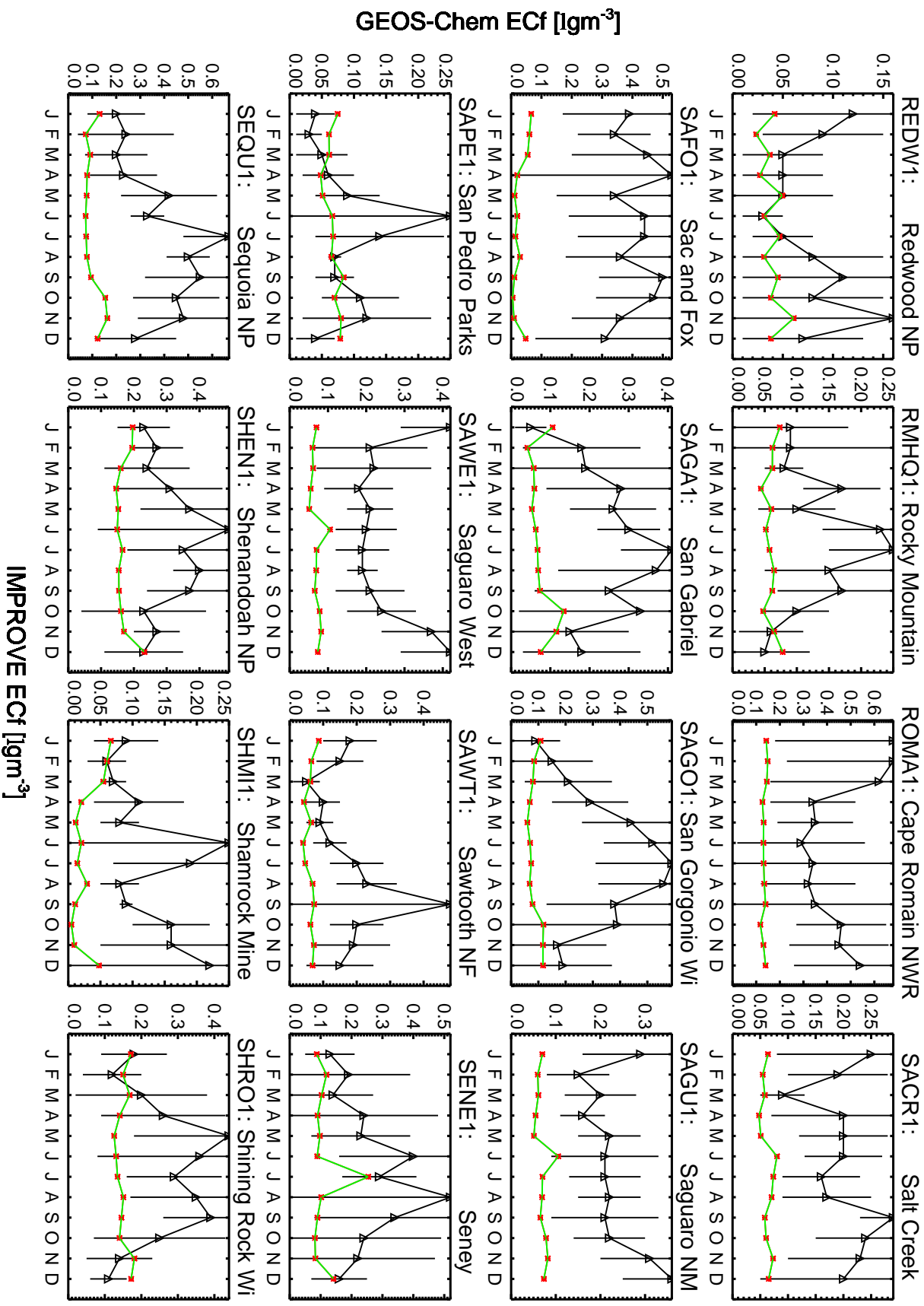
Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)

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

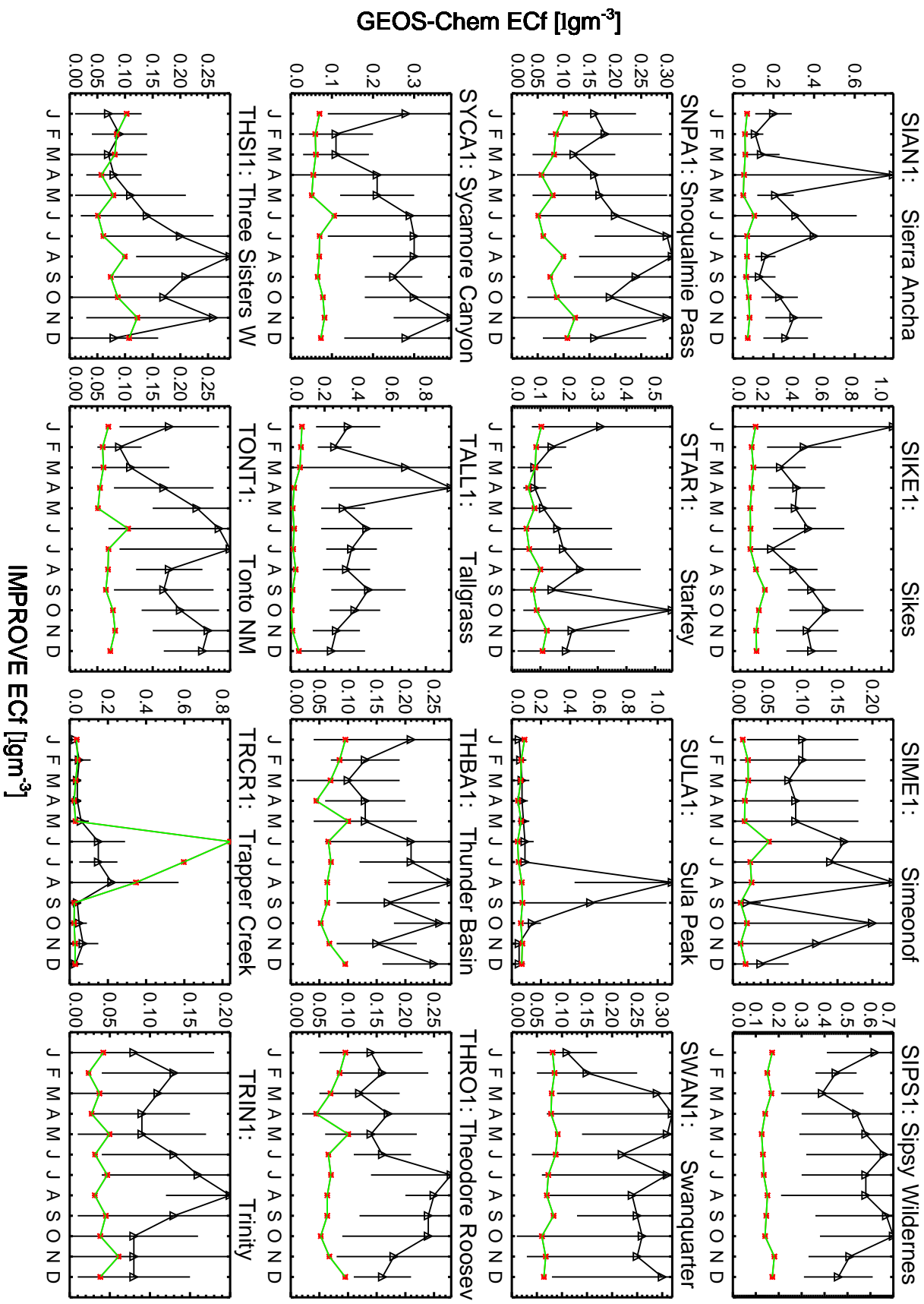


IMPROVE ECf [$\mu\text{g m}^{-3}$]

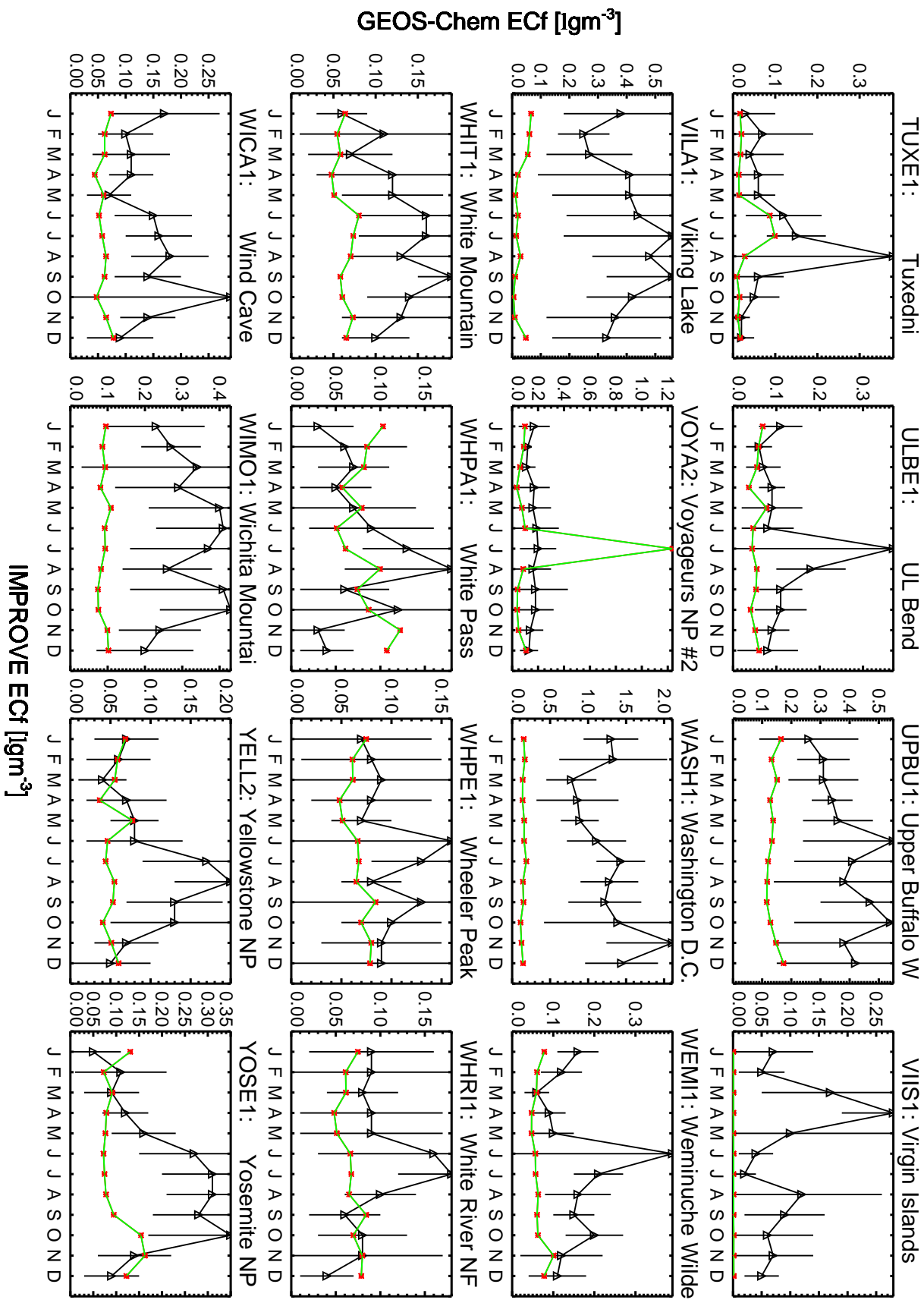
Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)

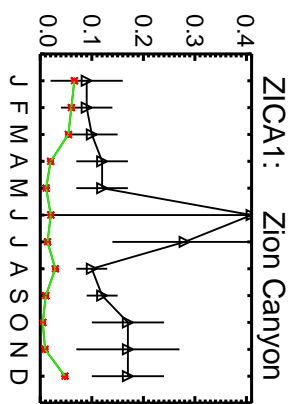


Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



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

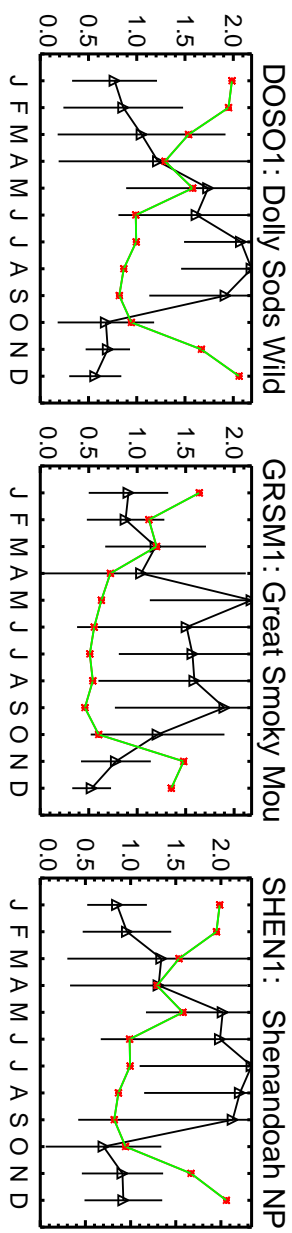
Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



GEOS-Chem ECf [μgm^{-3}]

IMPROVE ECf [μgm^{-3}]

Red: 14.0.0_1yr_bm (2019); Green: 14.0.0_10yr_bm (2019)



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

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