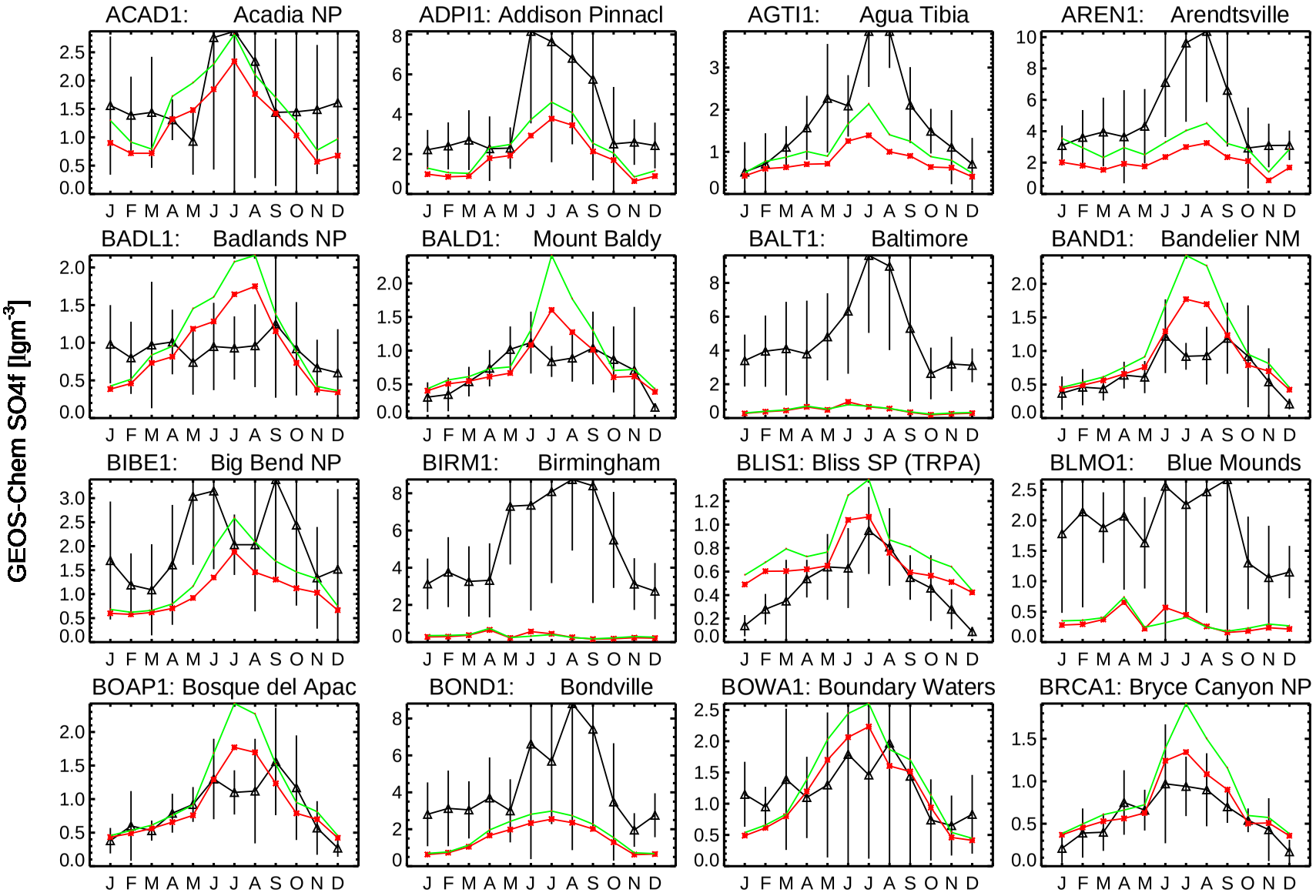
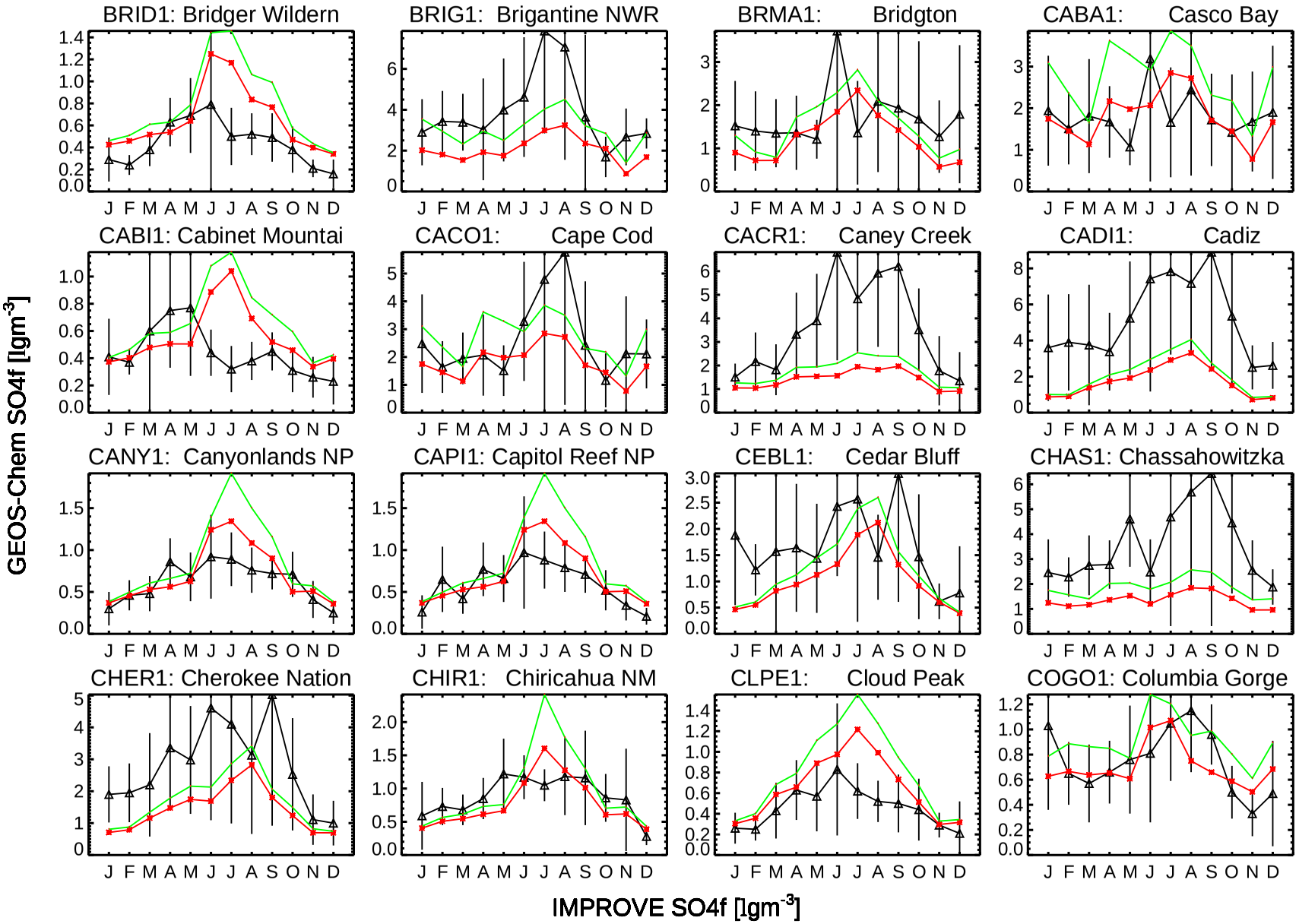
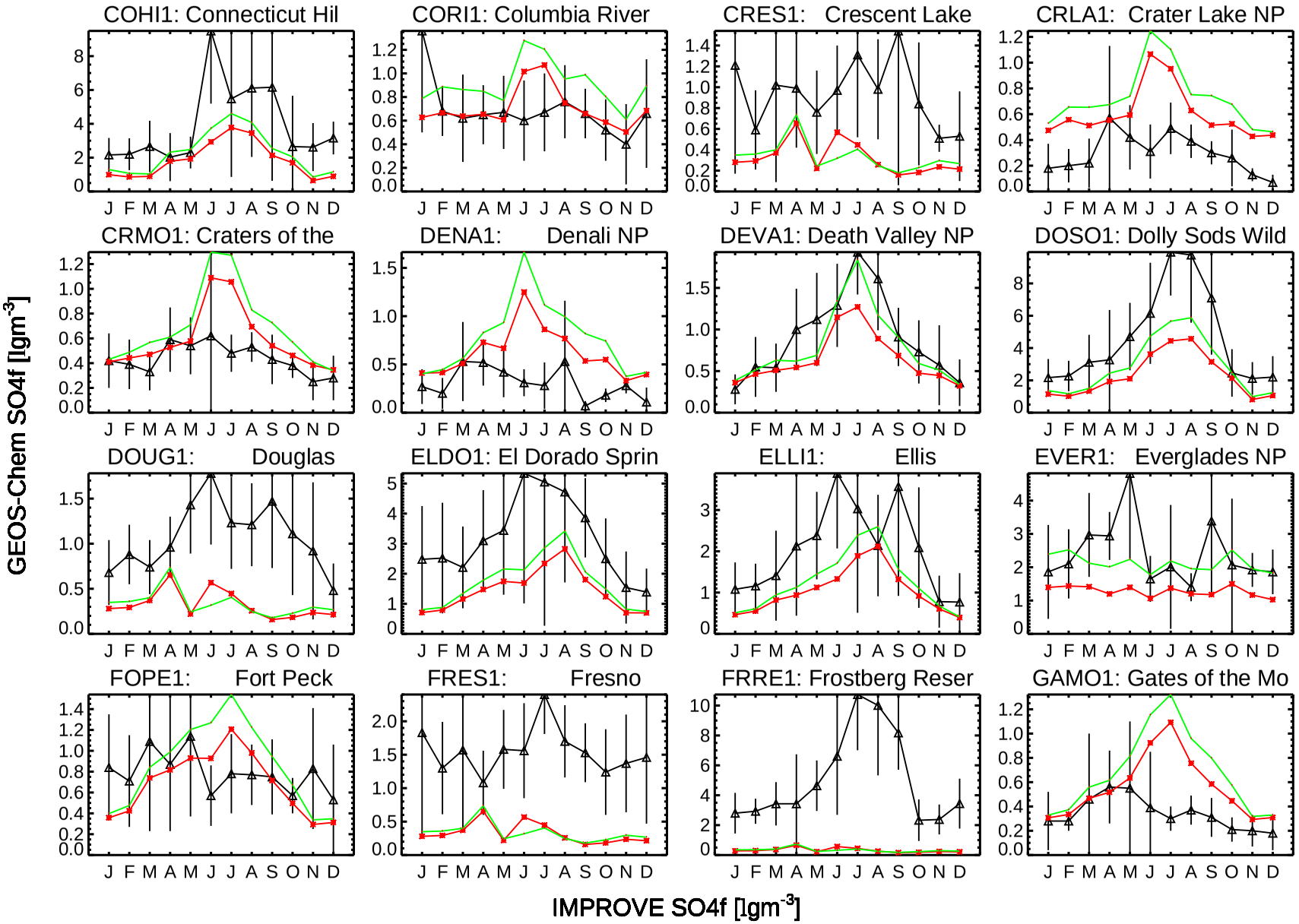
Red: v10-01 (2013); Green: v11-01 (2013)



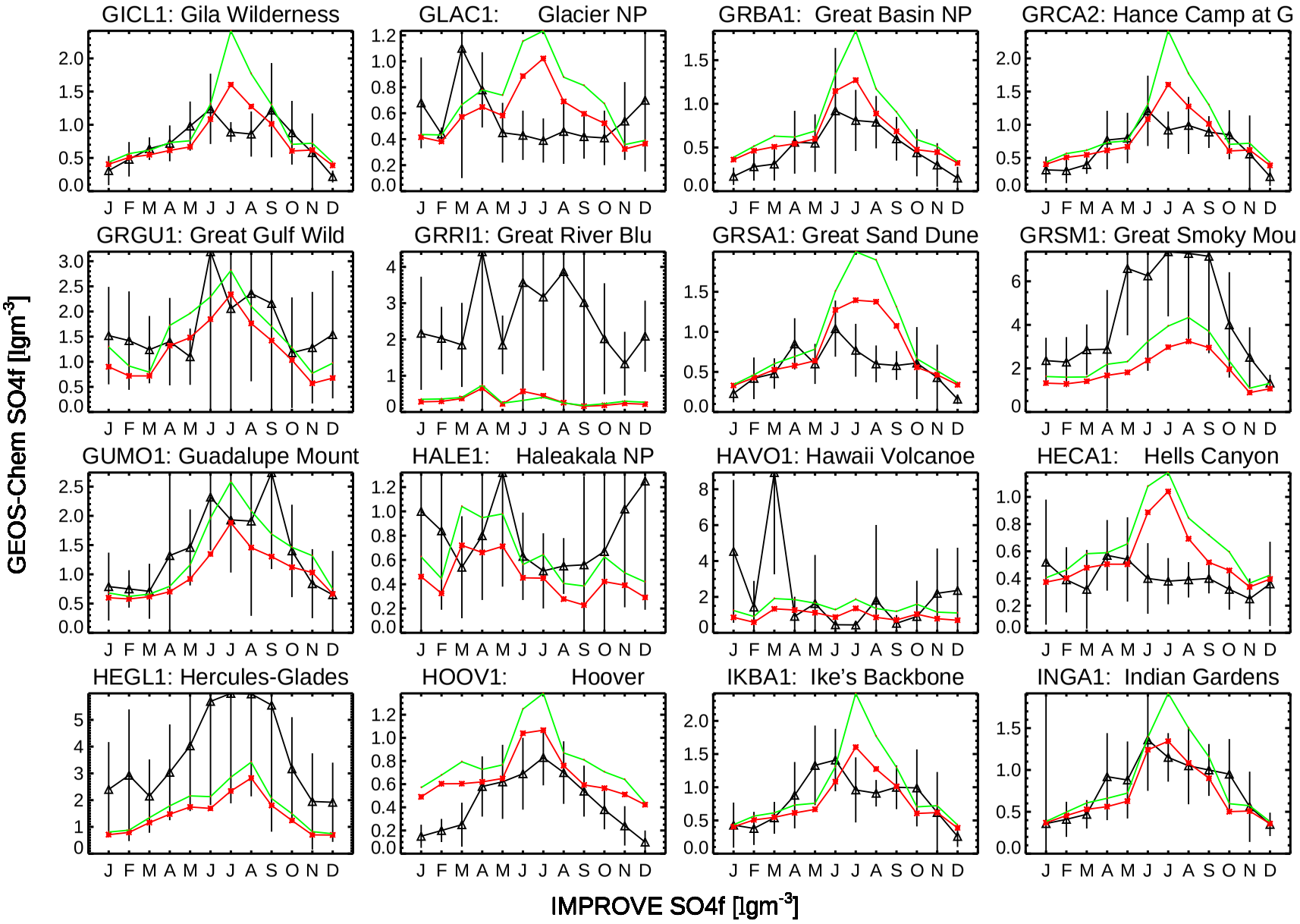
Red: v10-01 (2013); Green: v11-01 (2013)



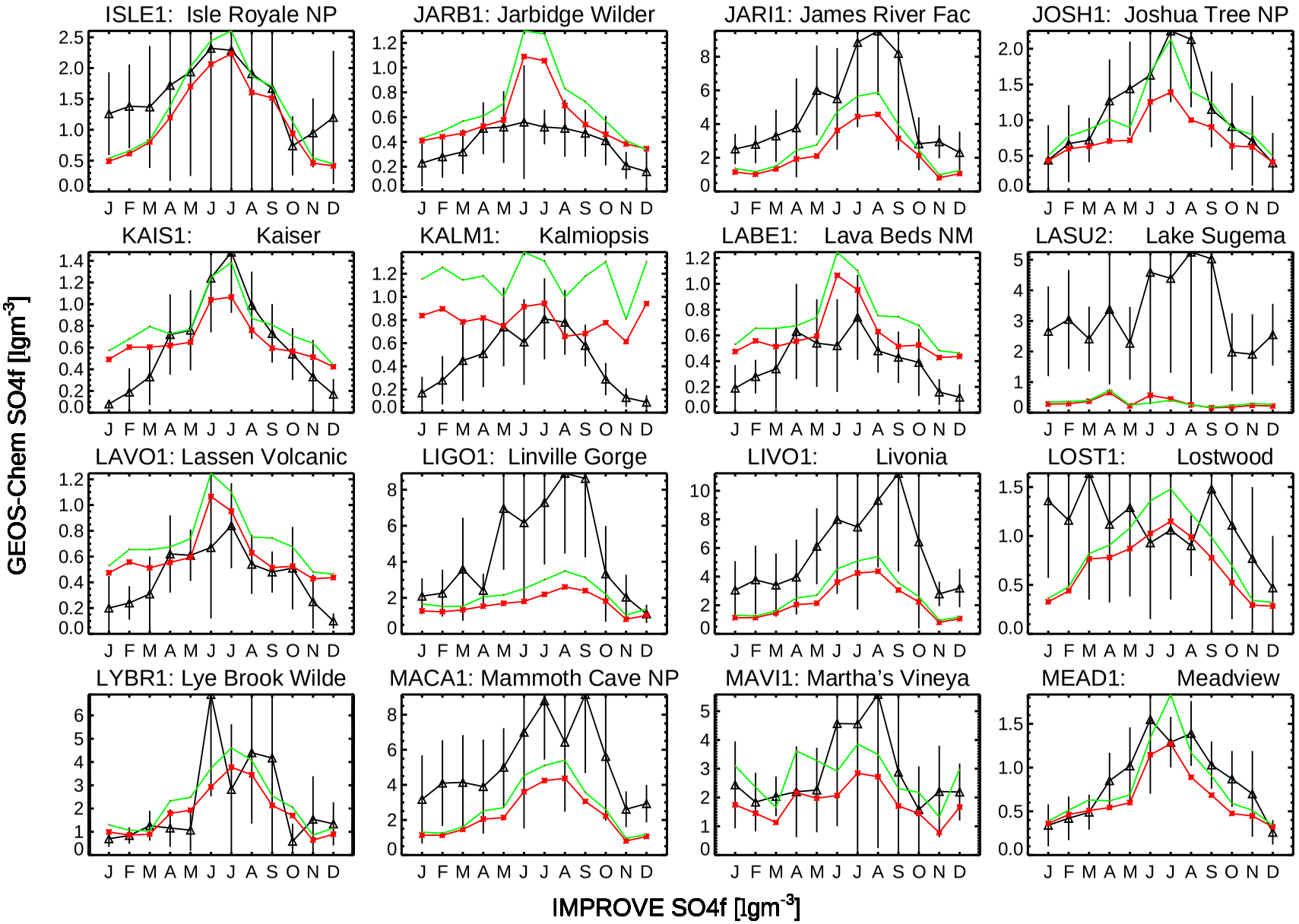
Red: v10-01 (2013); Green: v11-01 (2013)



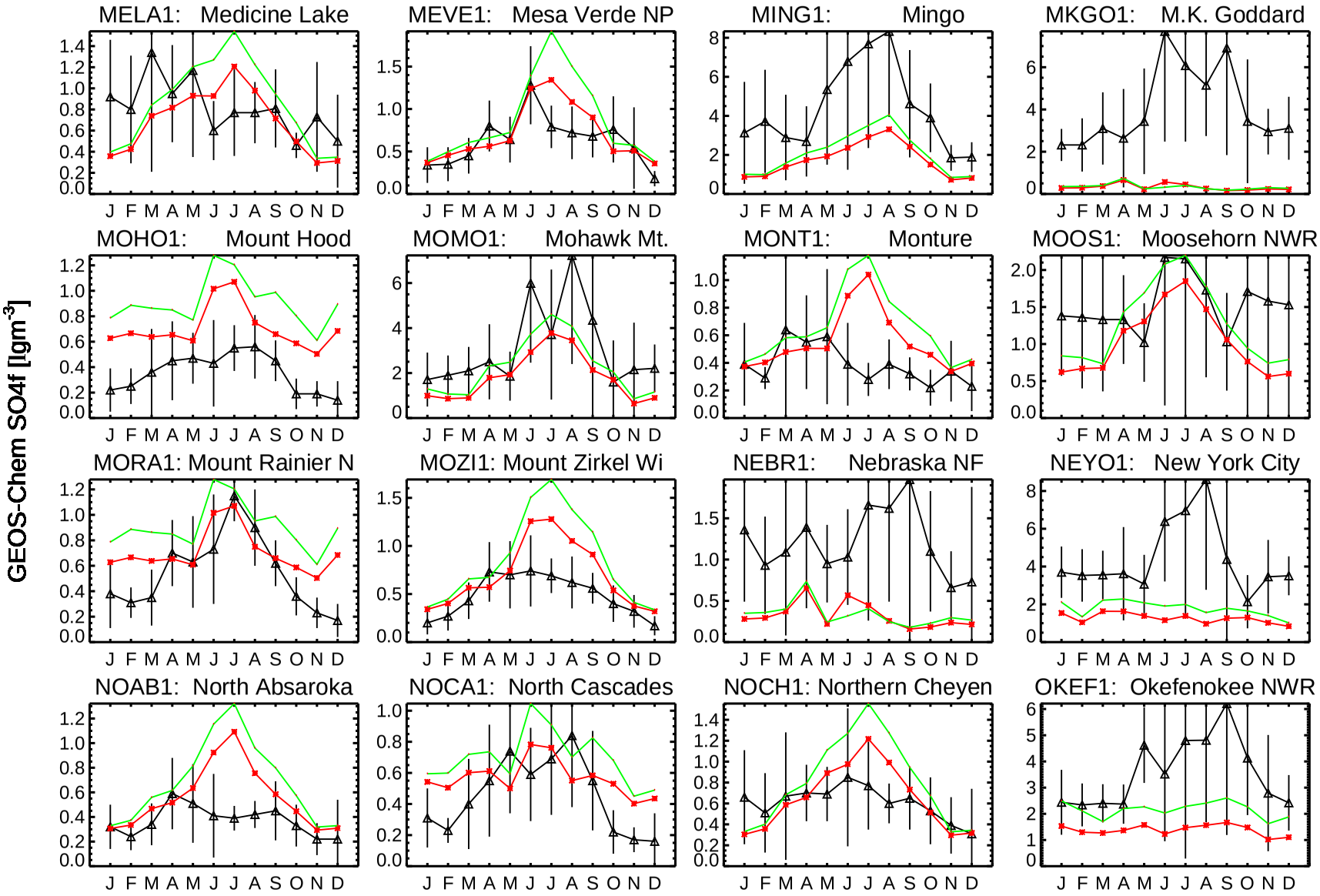
Red: v10-01 (2013); Green: v11-01 (2013)



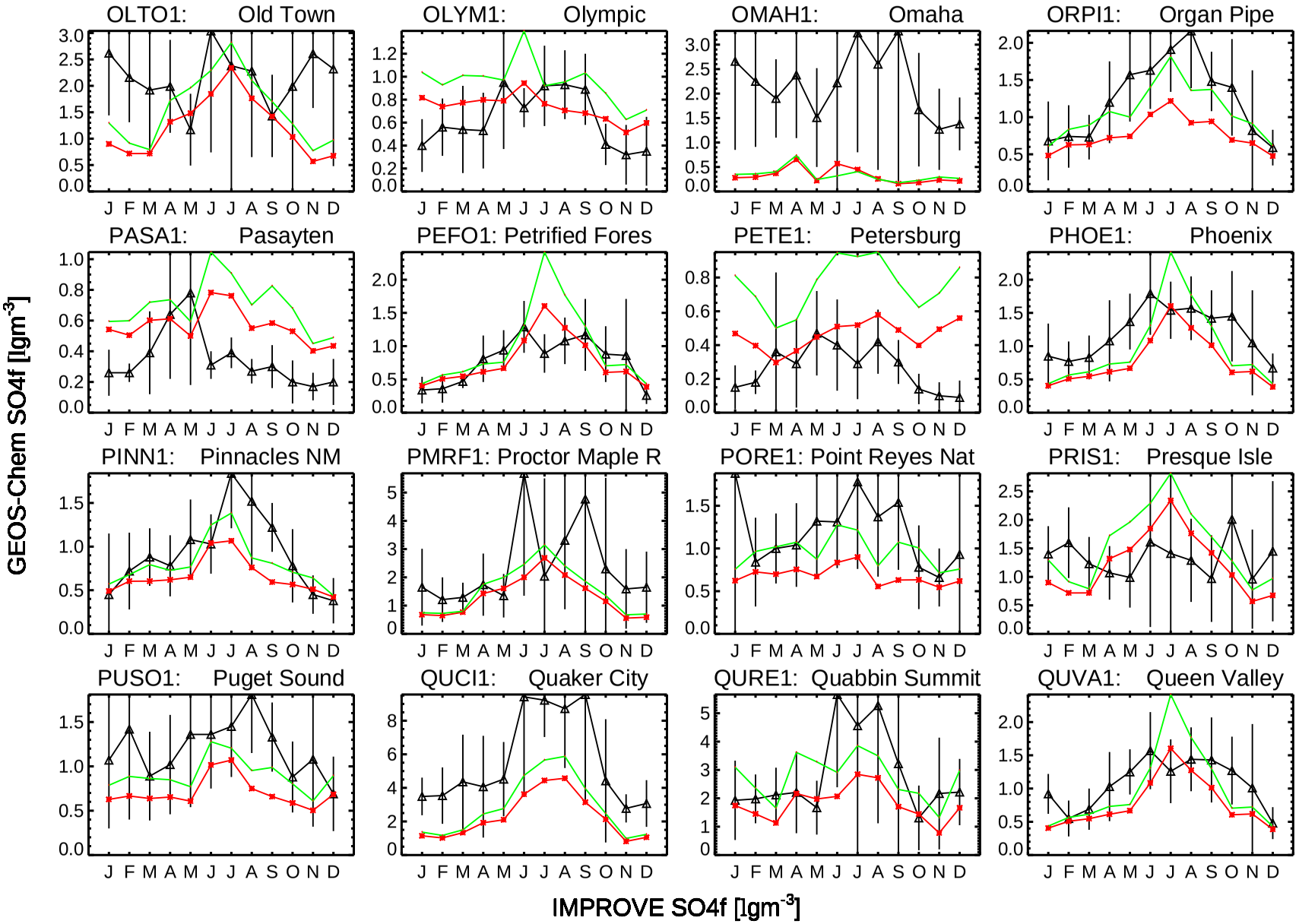
Red: v10-01 (2013); Green: v11-01 (2013)

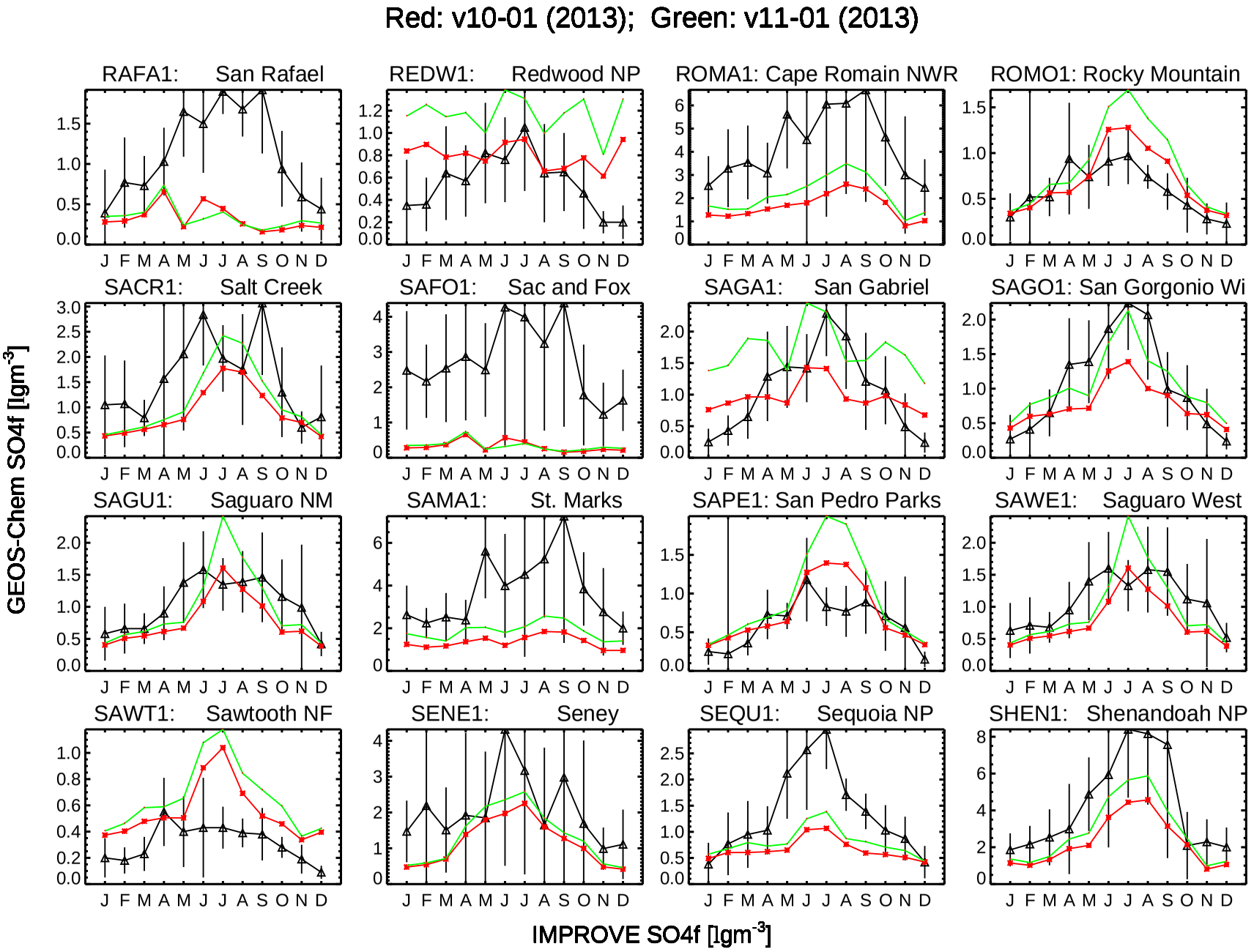


Red: v10-01 (2013); Green: v11-01 (2013)

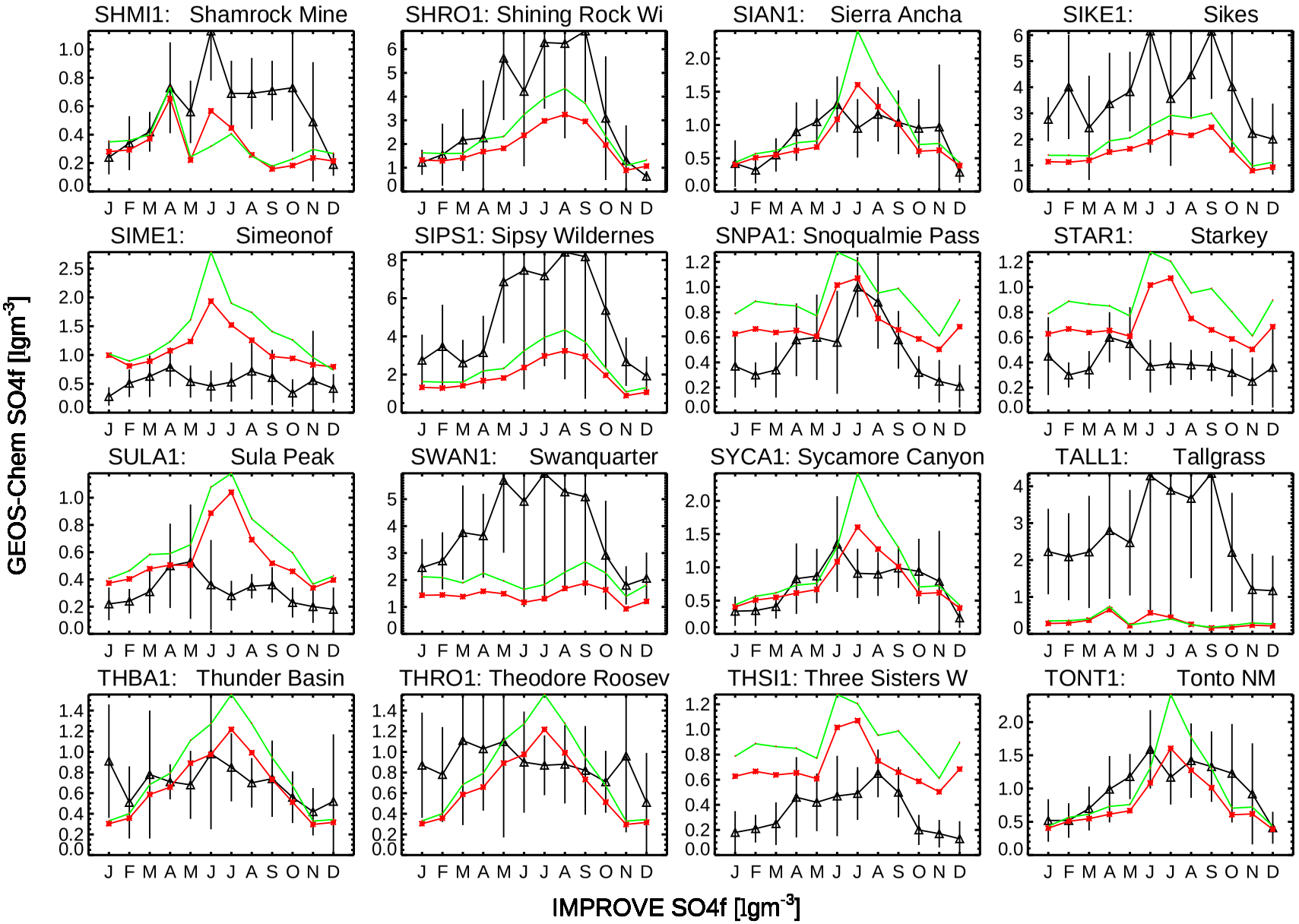


Red: v10-01 (2013); Green: v11-01 (2013)

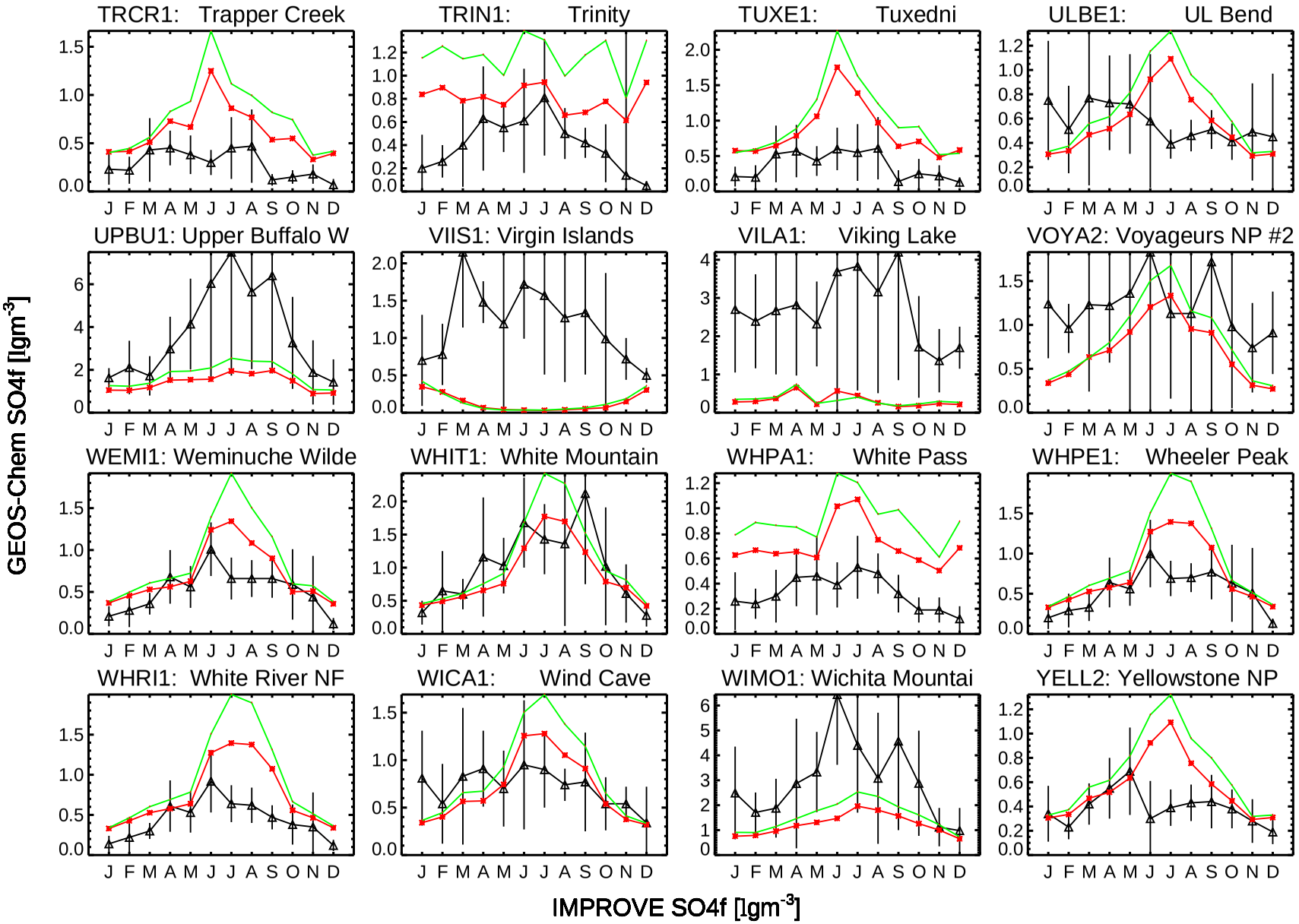



Red: v10-01 (2013); Green: v11-01 (2013)
RAFA1: San Rafael
REDW1: Redwood NP
ROMA1: Cape Romain NWR
ROMO1: Rocky Mountain
SACR1: Salt Creek
SAFO1: Sac and Fox
SAGA1: San Gabriel
SAGO1: San Gorgonio Wi
SAGU1: Saguaro NM
SAMA1: St. Marks
SAPE1: San Pedro Parks
SAWE1: Saguaro West
SAWT1: Sawtooth NF
SENE1: Seney
SEQU1: Sequoia NP
SHEN1: Shenandoah NP
J F M A M J J A S O N D
GEOS-Chem SO4f [lgm-3]
IMPROVE SO4f [lgm-3]

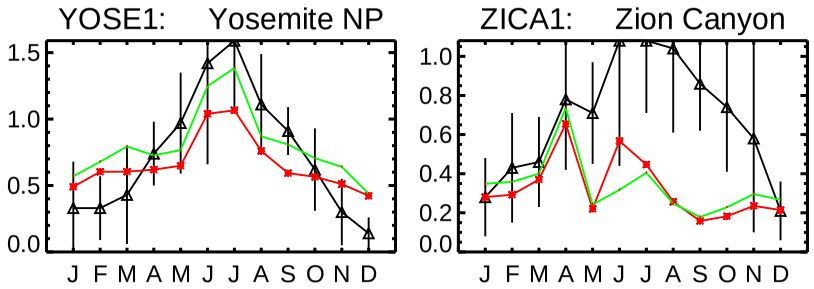
Red: v10-01 (2013); Green: v11-01 (2013)



Red: v10-01 (2013); Green: v11-01 (2013)

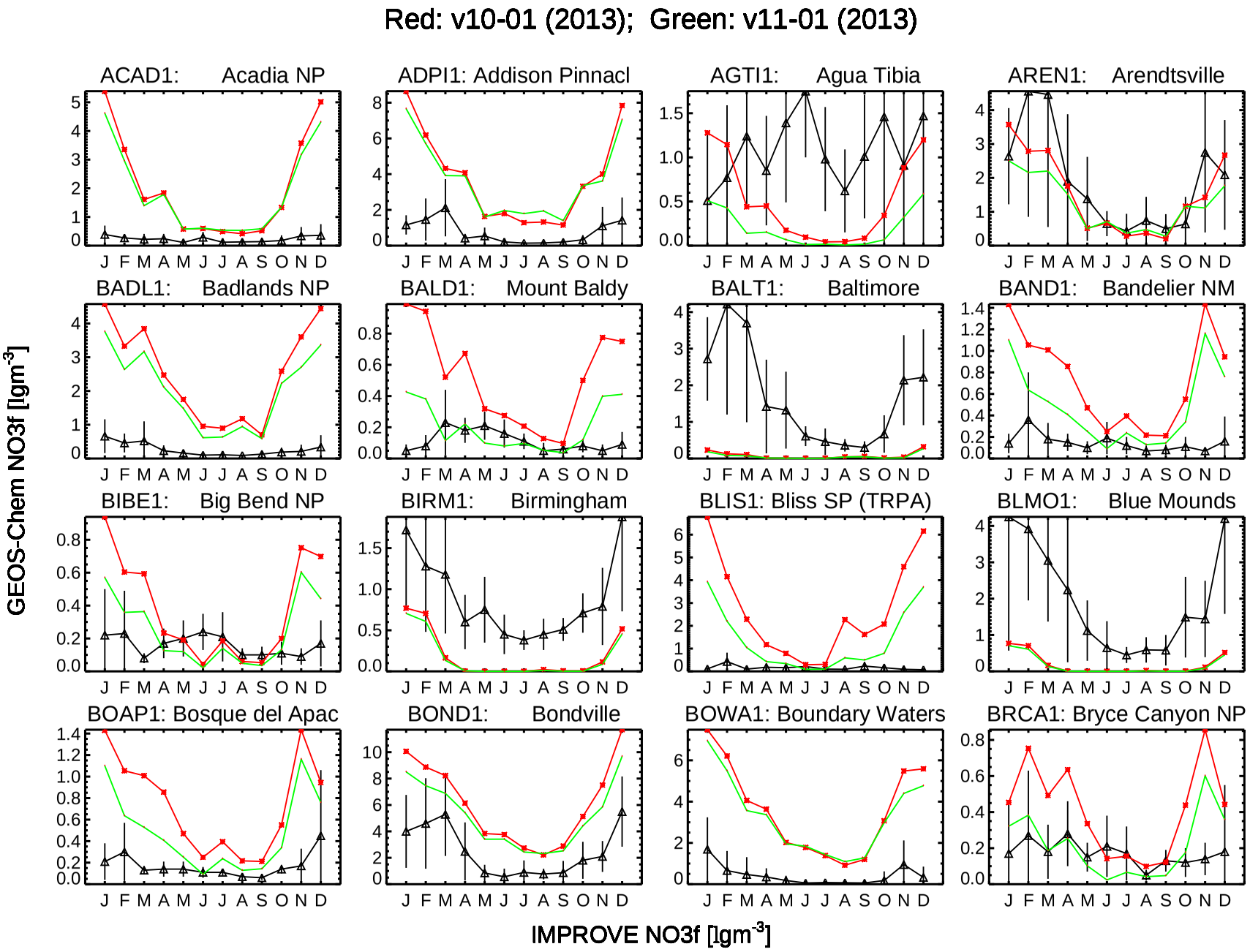


Red: v10-01 (2013); Green: v11-01 (2013)

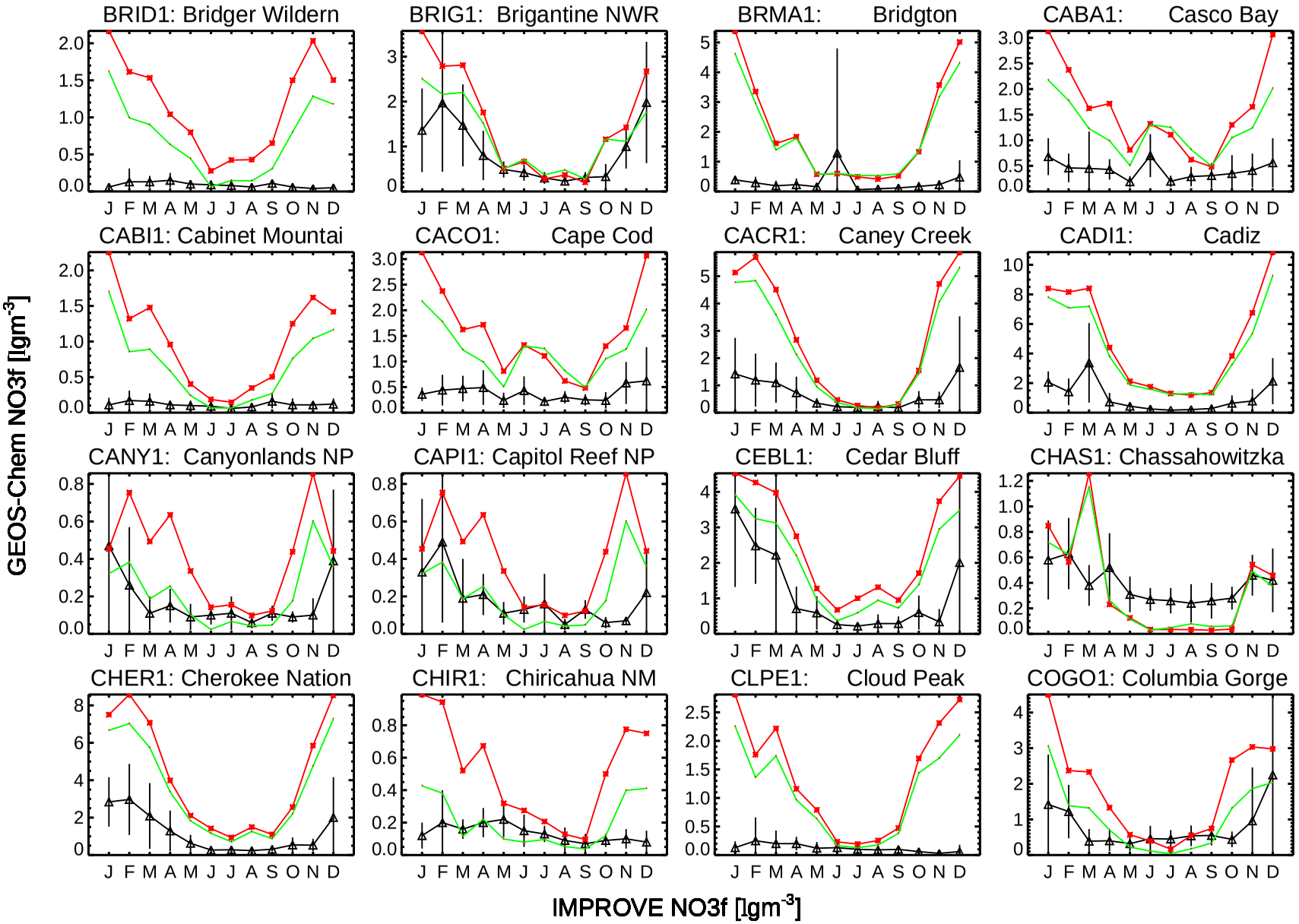


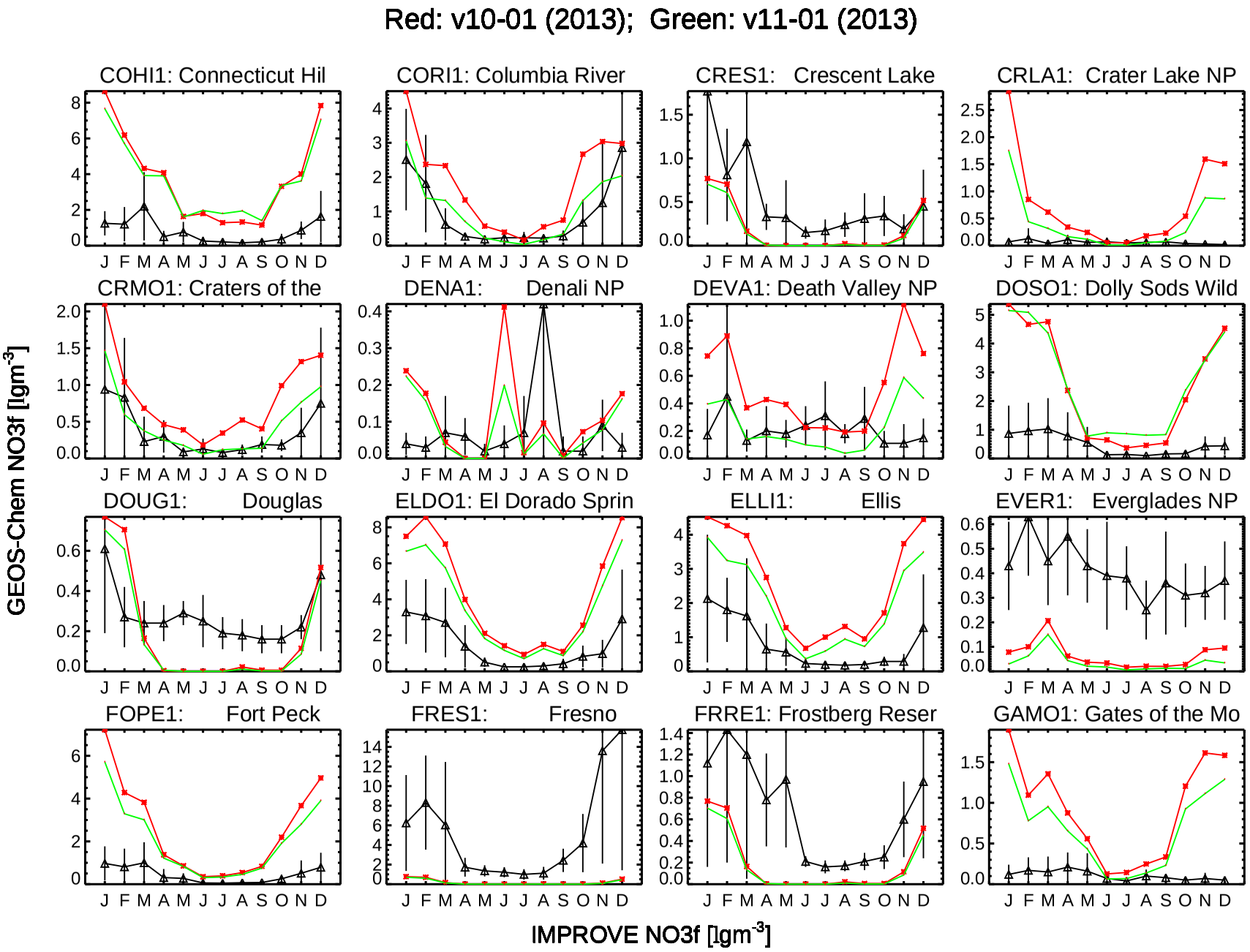
GEOS-Chem SO4f [μgm^{-3}]

IMPROVE SO4f [μgm^{-3}]

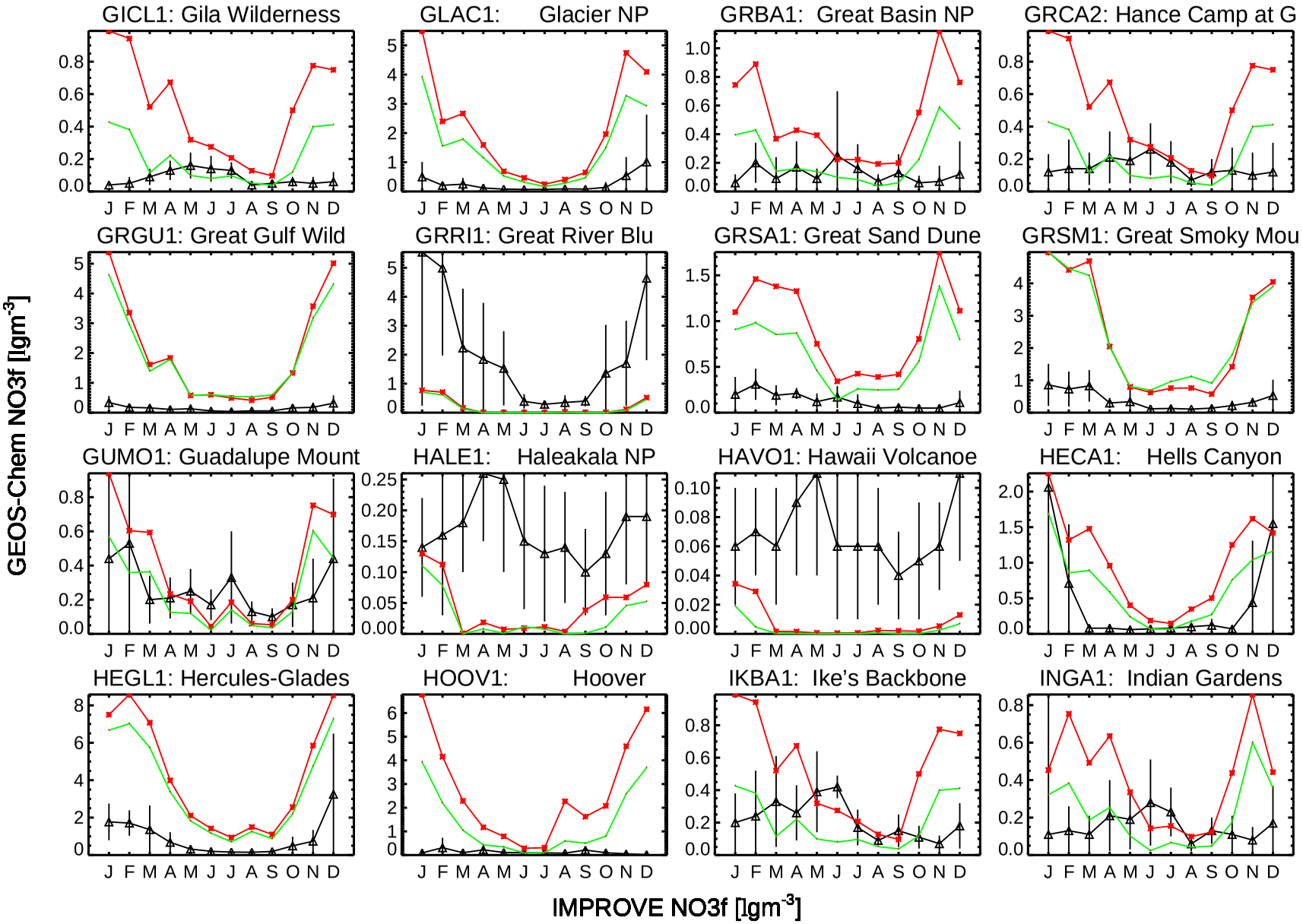

Red: v10-01 (2013); Green: v11-01 (2013)
ACAD1: Acadia NP
ADPI1: Addison Pinnacl
AGTI1: Agua Tibia
AREN1: Arendtsville
BADL1: Badlands NP
BALD1: Mount Baldy
BALT1: Baltimore
BAND1: Bandelier NM
BIBE1: Big Bend NP
BIRM1: Birmingham
BLIS1: Bliss SP (TRPA)
BLMO1: Blue Mounds
BOAP1: Bosque del Apac
BOND1: Bondville
BOWA1: Boundary Waters
BRCA1: Bryce Canyon NP
J F M A M J J A S O N D
GEOS-Chem NO3f [lgm-3]
IMPROVE NO3f [lgm-3]

Red: v10-01 (2013); Green: v11-01 (2013)

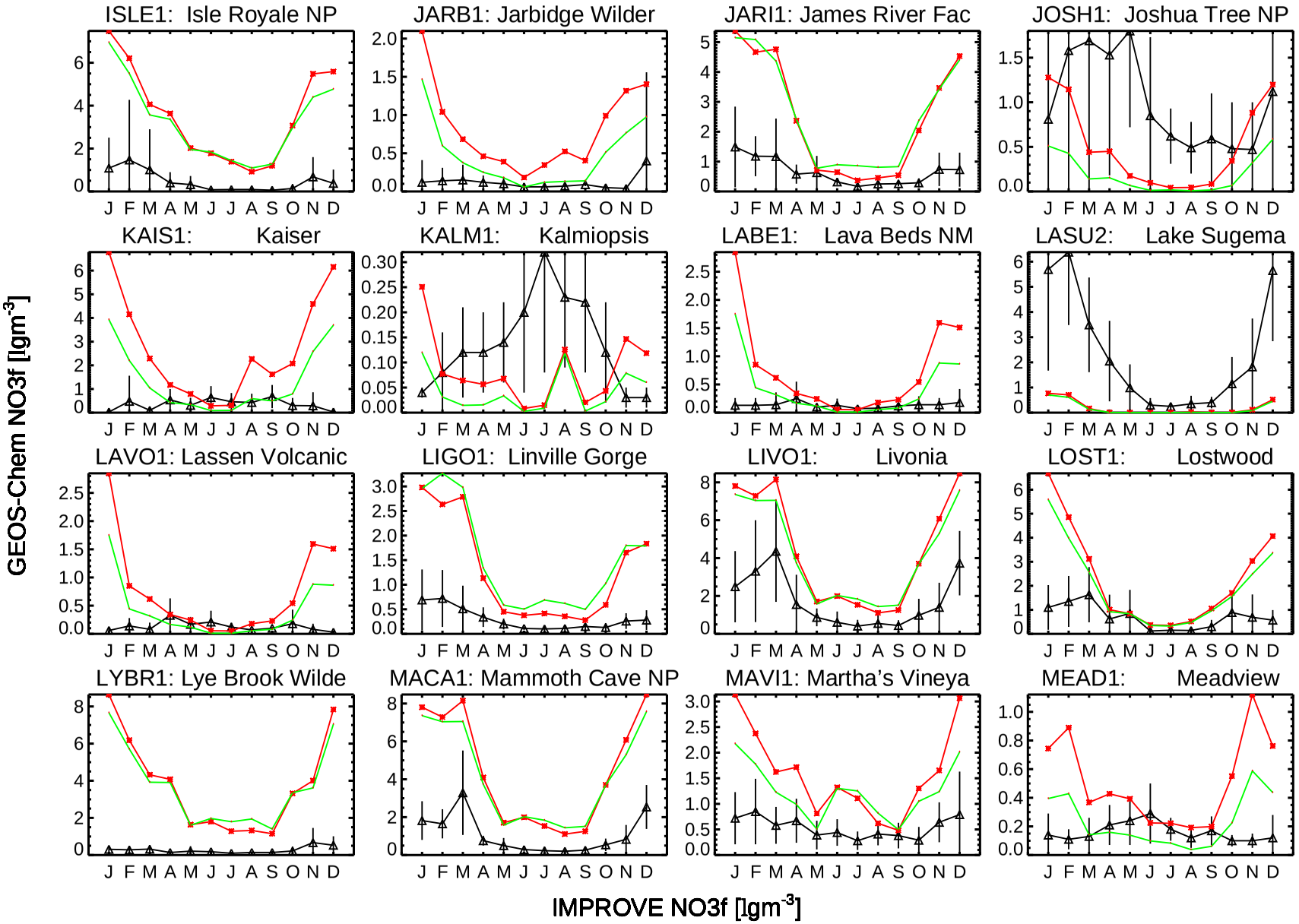


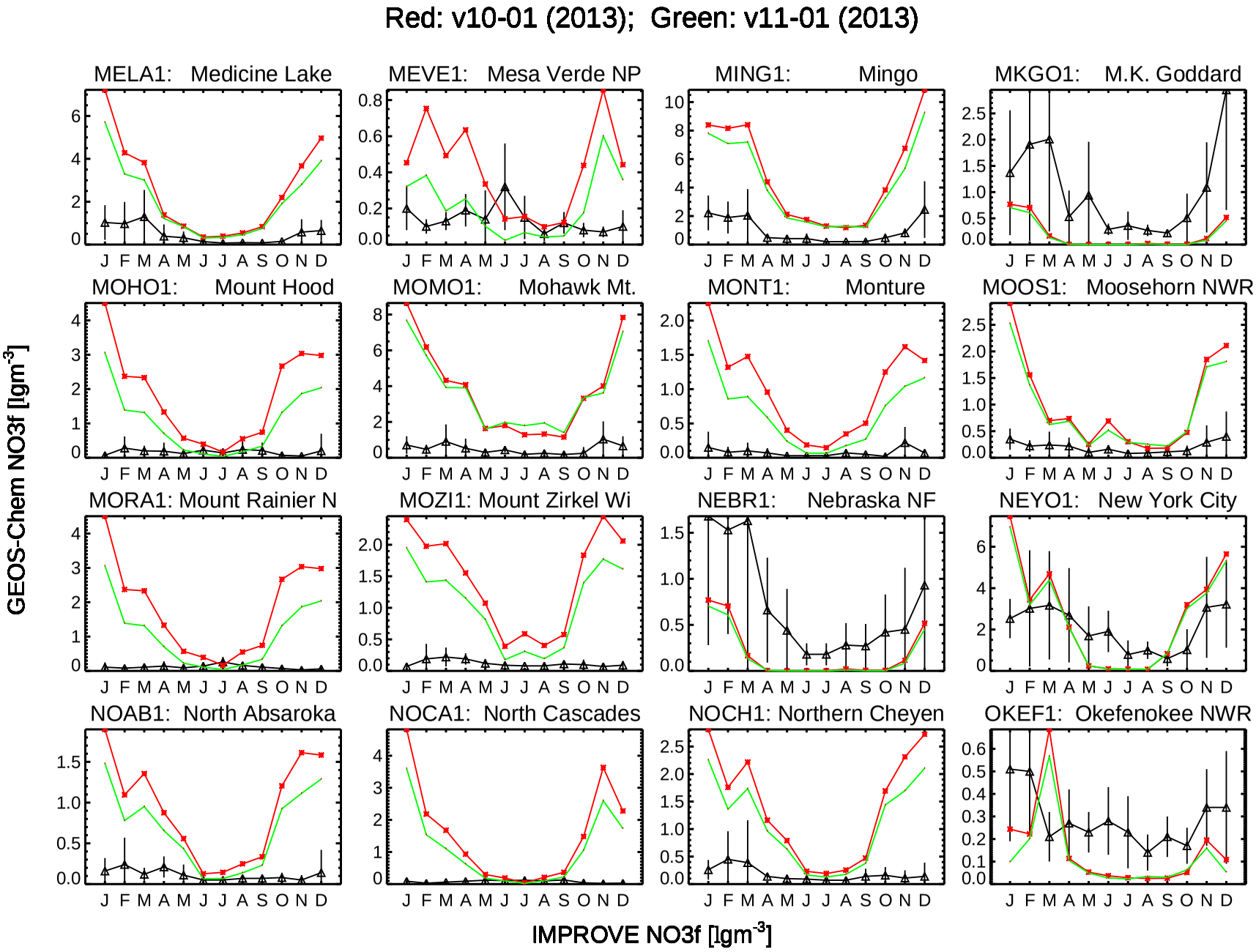

Red: v10-01 (2013); Green: v11-01 (2013)
COHI1: Connecticut Hil
CORI1: Columbia River
CRES1: Crescent Lake
CRLA1: Crater Lake NP
CRMO1: Craters of the
DENA1: Denali NP
DEVA1: Death Valley NP
DOSO1: Dolly Sods Wild
DOUG1: Douglas
ELDO1: El Dorado Sprin
ELLI1: Ellis
EVER1: Everglades NP
FOPE1: Fort Peck
FRES1: Fresno
FRRE1: Frostberg Reser
GAMO1: Gates of the Mo
J F M A M J J A S O N D
GEOS-Chem NO3f [lgm-3]
IMPROVE NO3f [lgm-3]

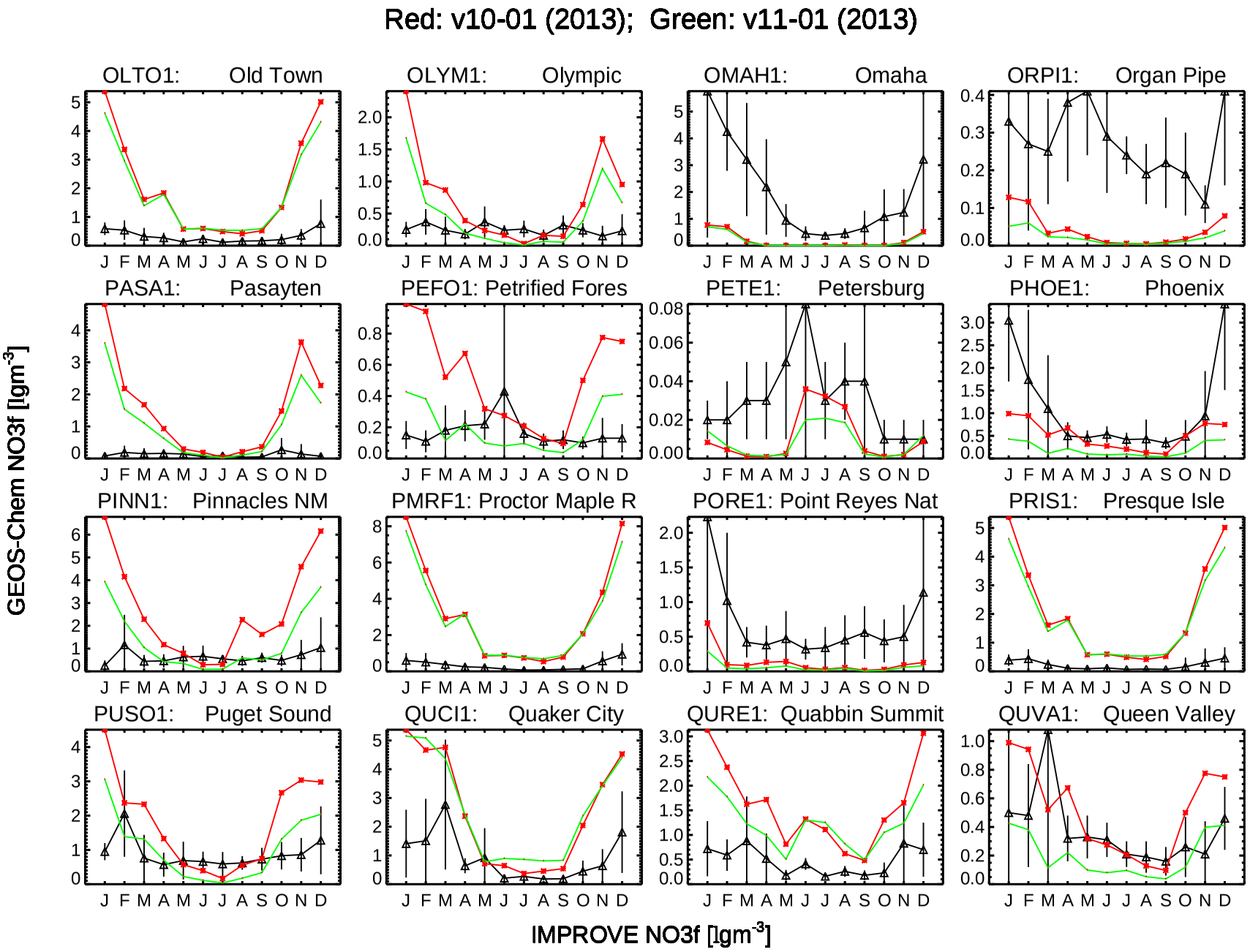
Red: v10-01 (2013); Green: v11-01 (2013)

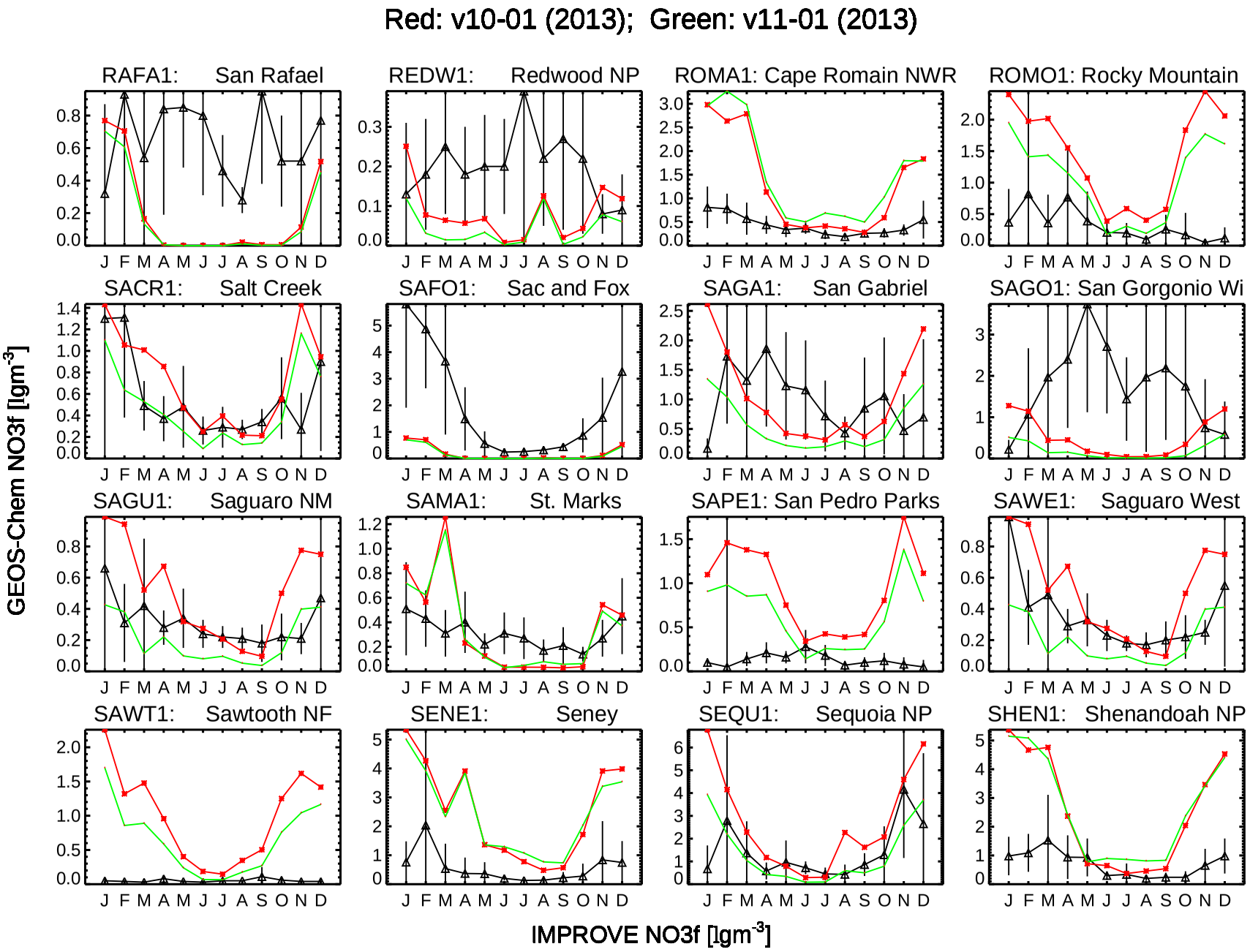


Red: v10-01 (2013); Green: v11-01 (2013)




Red: v10-01 (2013); Green: v11-01 (2013)
MELA1: Medicine Lake
MEVE1: Mesa Verde NP
MING1: Mingo
MKGO1: M.K. Goddard
MOHO1: Mount Hood
MOMO1: Mohawk Mt.
MONT1: Monture
MOOS1: Moosehorn NWR
MORA1: Mount Rainier N
MOZI1: Mount Zirkel Wi
NEBR1: Nebraska NF
NEYO1: New York City
NOAB1: North Absaroka
NOCA1: North Cascades
NOCH1: Northern Cheyen
OKEF1: Okefenokee NWR
J F M A M J J A S O N D
GEOS-Chem NO3f [μgm-3]
IMPROVE NO3f [μgm-3]


Red: v10-01 (2013); Green: v11-01 (2013)
OLTO1: Old Town
OLYM1: Olympic
OMAH1: Omaha
ORPI1: Organ Pipe
PASA1: Pasayten
PEFO1: Petrified Fores
PETE1: Petersburg
PHOE1: Phoenix
PINN1: Pinnacles NM
PMRF1: Proctor Maple R
PORE1: Point Reyes Nat
PRIS1: Presque Isle
PUSO1: Puget Sound
QUCI1: Quaker City
QURE1: Quabbin Summit
QUVA1: Queen Valley
J F M A M J J A S O N D
GEOS-Chem NO3f [lgm-3]
IMPROVE NO3f [lgm-3]


Red: v10-01 (2013); Green: v11-01 (2013)
RAFA1: San Rafael
REDW1: Redwood NP
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SAFO1: Sac and Fox
SAGA1: San Gabriel
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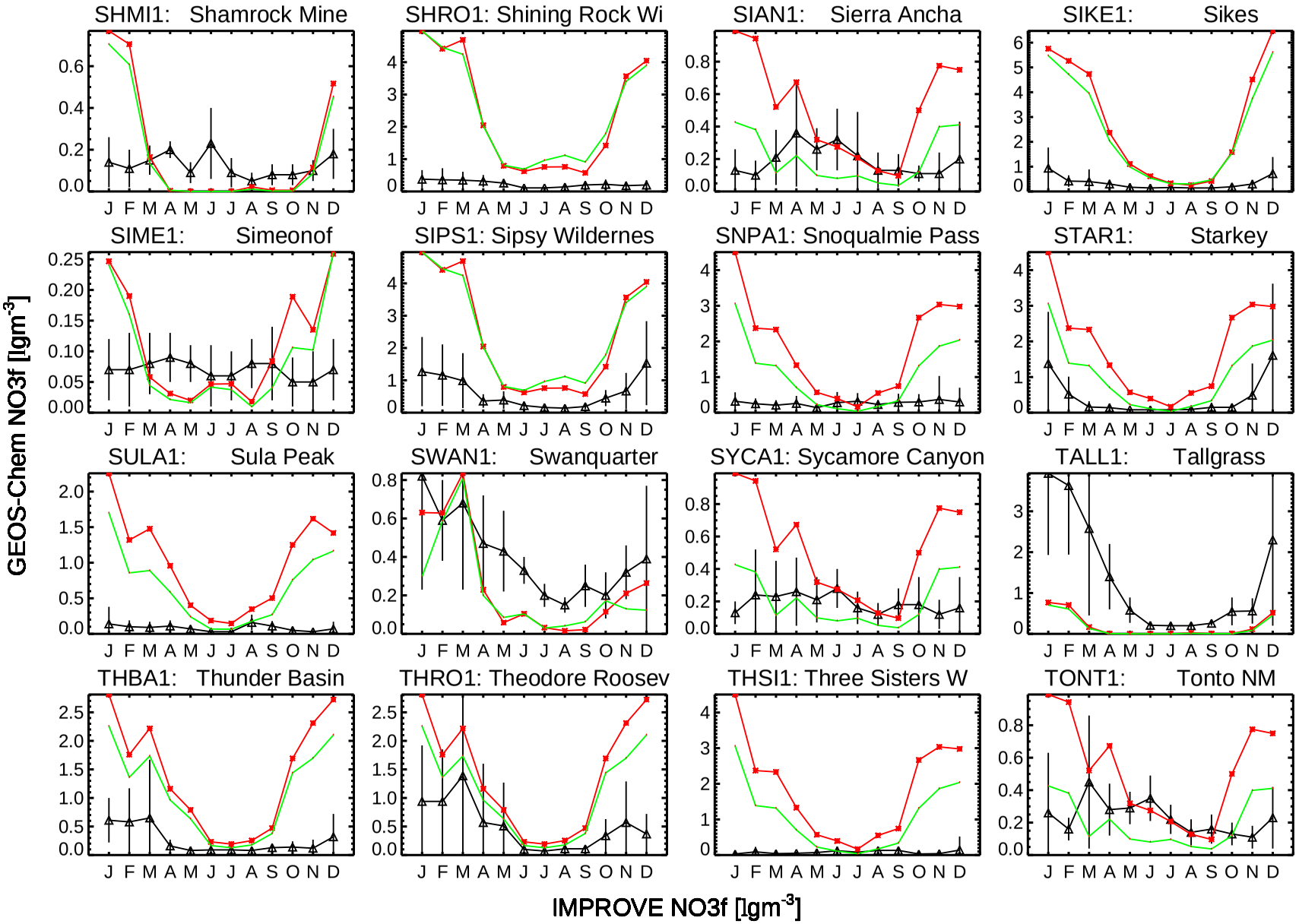
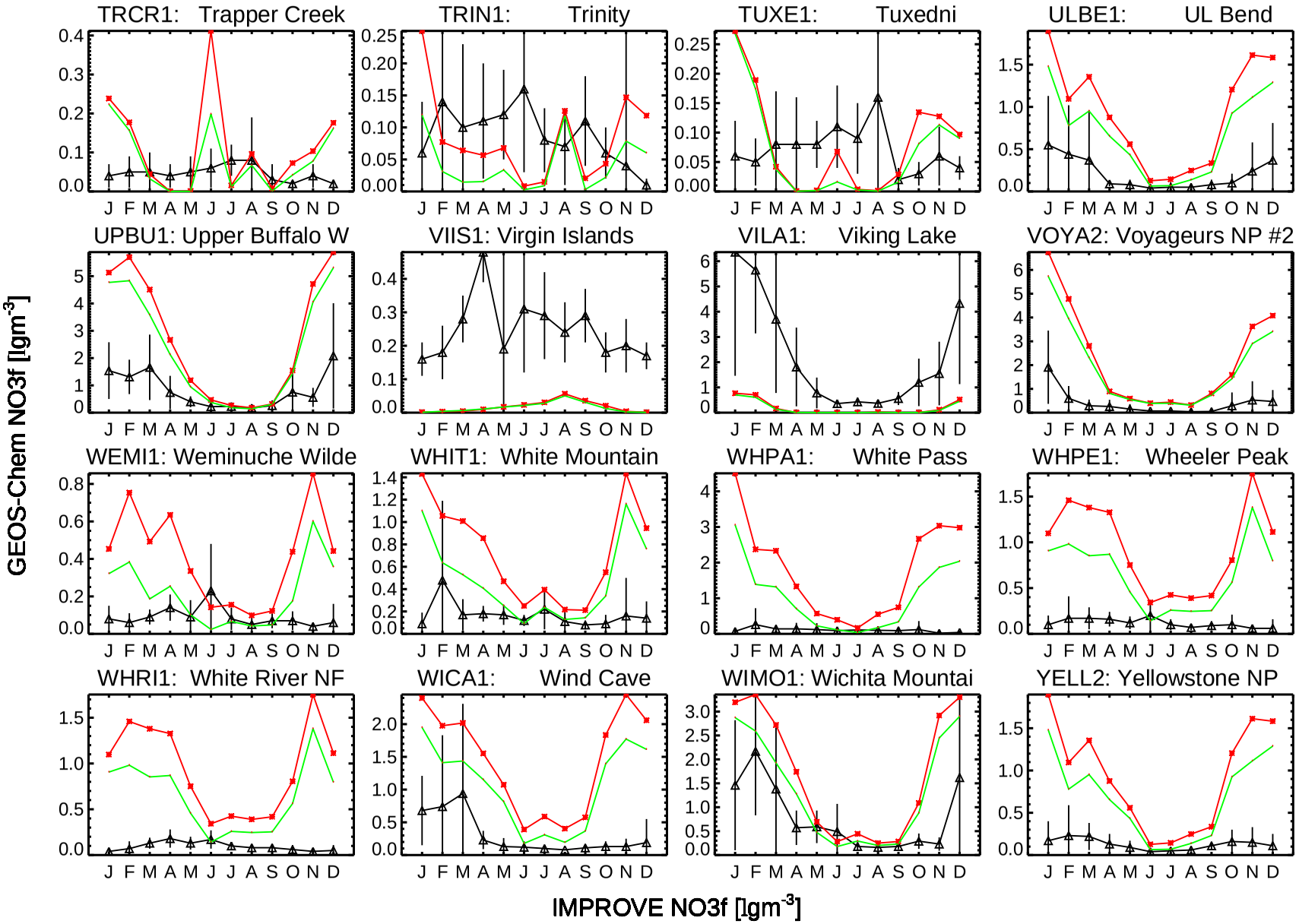
SAGU1: Saguaro NM
SAMA1: St. Marks
SAPE1: San Pedro Parks
SAWE1: Saguaro West
SAWT1: Sawtooth NF
SENE1: Seney
SEQU1: Sequoia NP
SHEN1: Shenandoah NP
J F M A M J J A S O N D
GEOS-Chem NO3f [lgm-3]
IMPROVE NO3f [lgm-3]

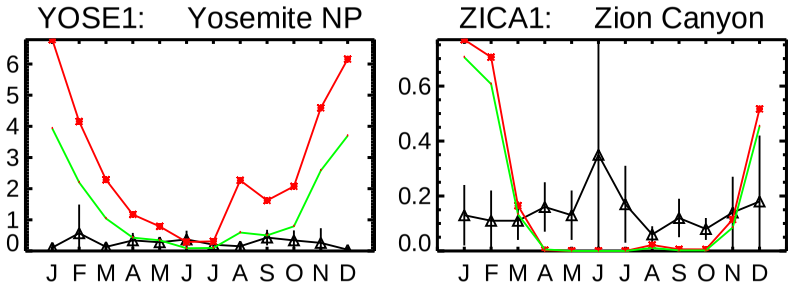
Red: v10-01 (2013); Green: v11-01 (2013)



Red: v10-01 (2013); Green: v11-01 (2013)

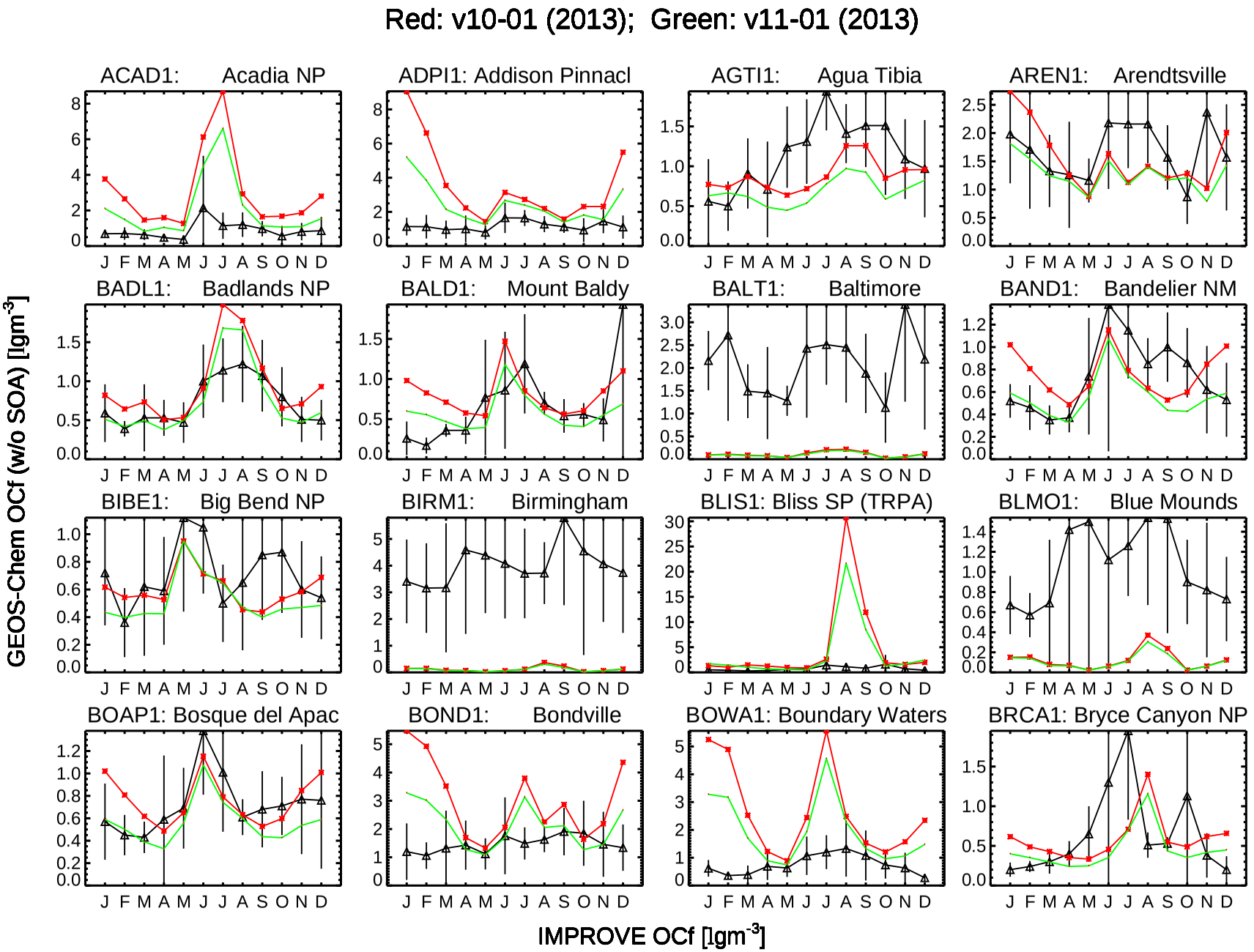


Red: v10-01 (2013); Green: v11-01 (2013)



GEOS-Chem NO3f [μgm^{-3}]

IMPROVE NO3f [μgm^{-3}]


Red: v10-01 (2013); Green: v11-01 (2013)
ACAD1: Acadia NP
ADPI1: Addison Pinnacl
AGTI1: Agua Tibia
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BADL1: Badlands NP
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BALT1: Baltimore
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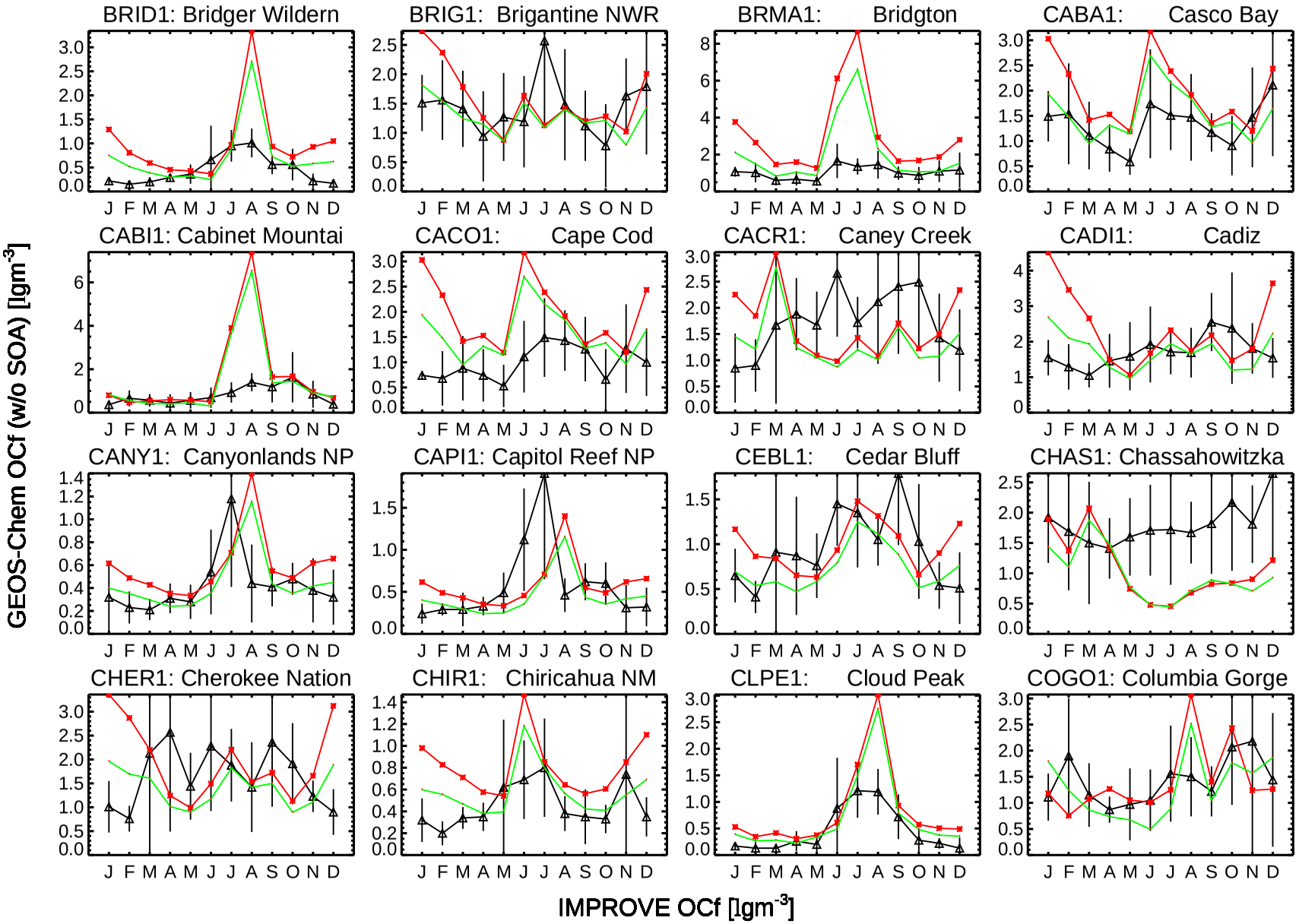
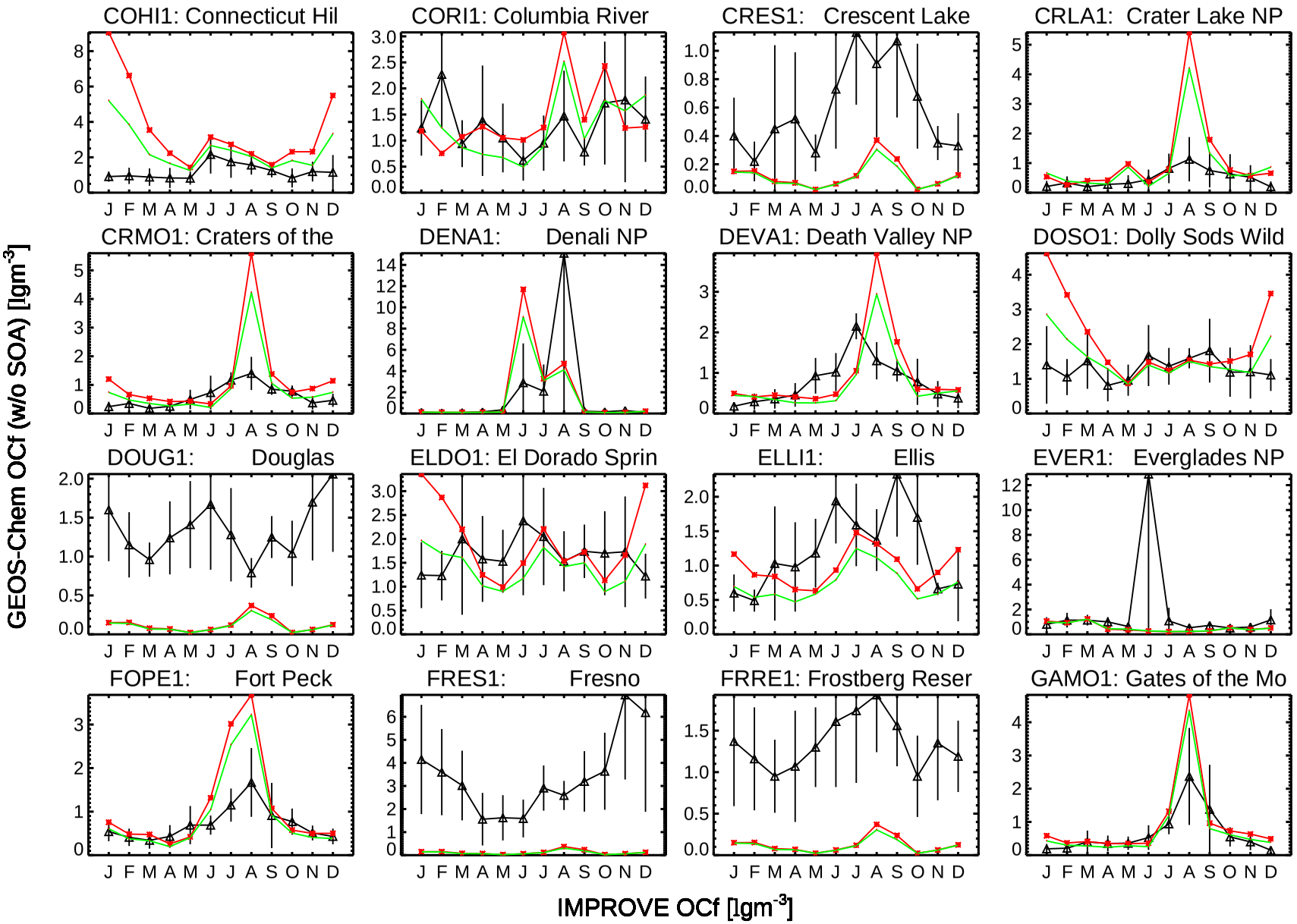
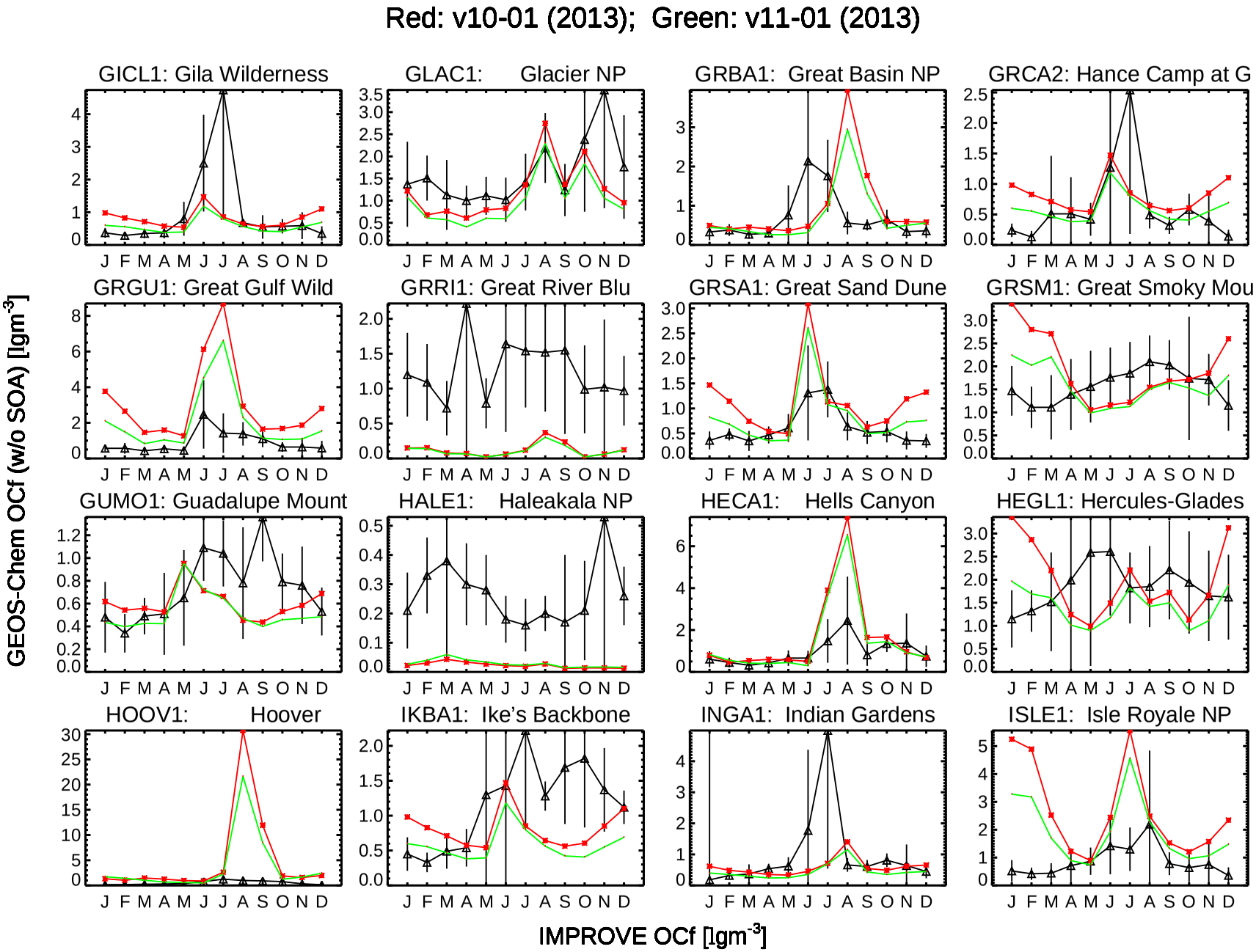
BIBE1: Big Bend NP
BIRM1: Birmingham
BLIS1: Bliss SP (TRPA)
BLMO1: Blue Mounds
BOAP1: Bosque del Apac
BOND1: Bondville
BOWA1: Boundary Waters
BRCA1: Bryce Canyon NP
J F M A M J J A S O N D
GEOS-Chem OCf (w/o SOA) [μgm-3]
IMPROVE OCf [μgm-3]

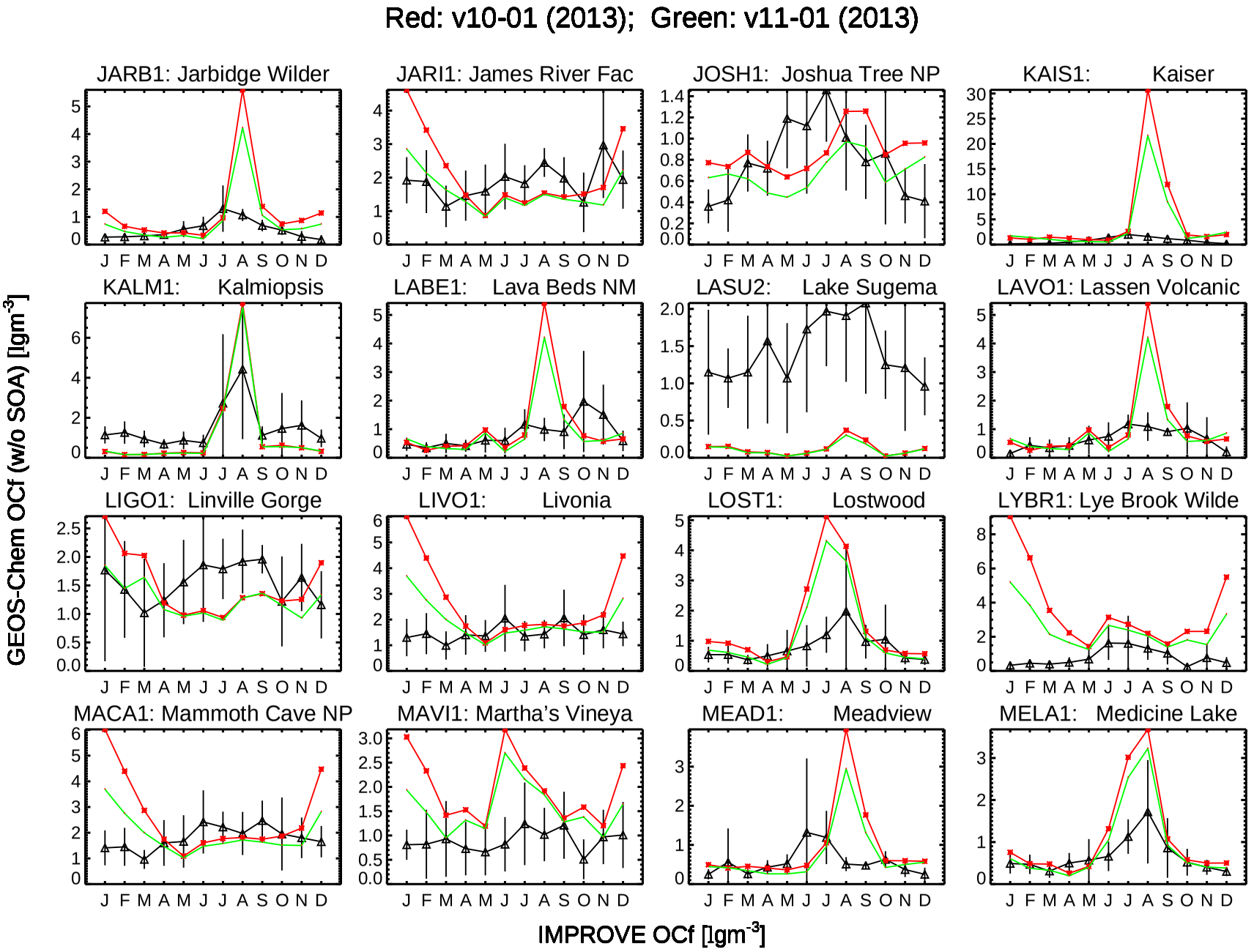
Red: v10-01 (2013); Green: v11-01 (2013)

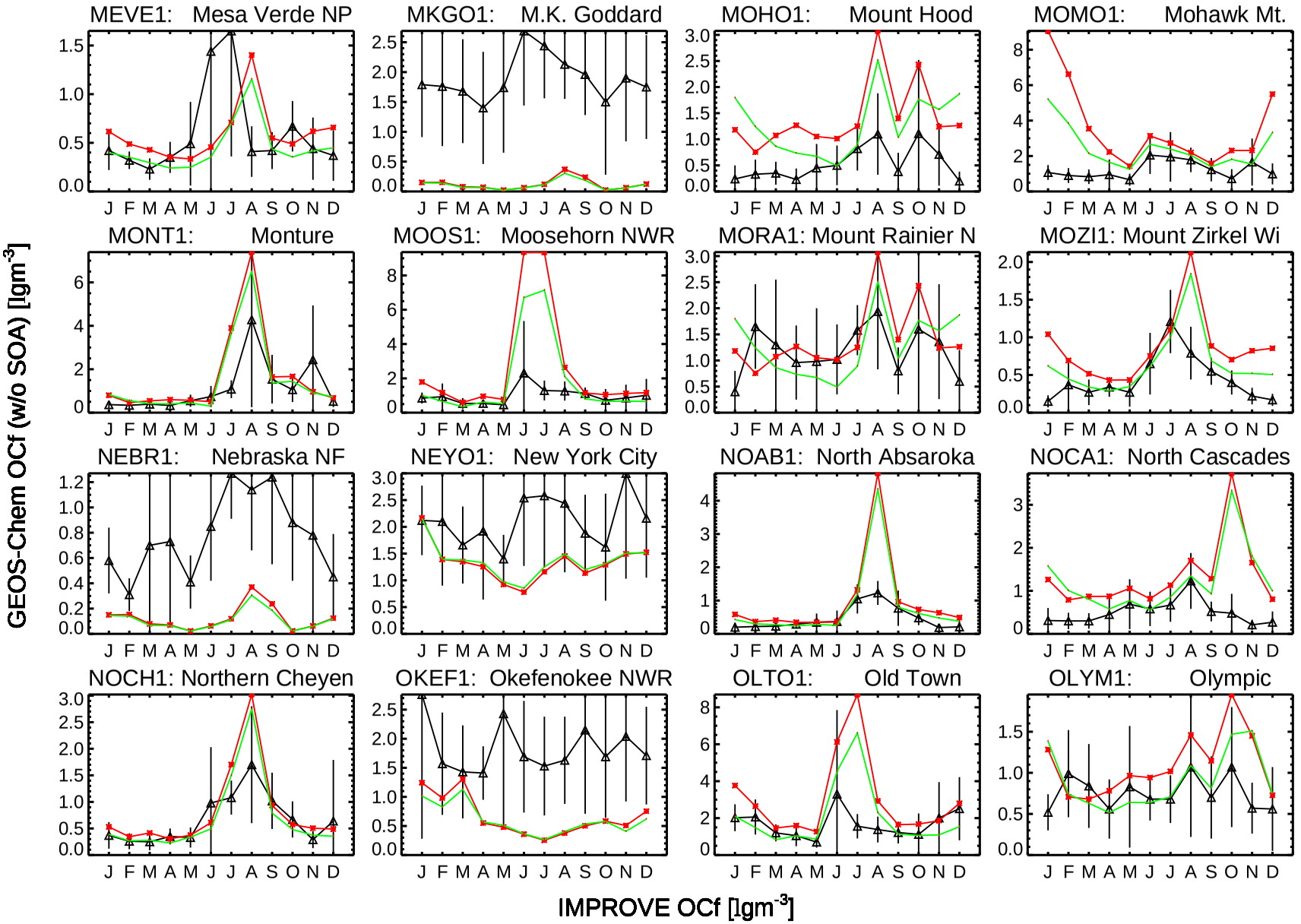


Red: v10-01 (2013); Green: v11-01 (2013)




Red: v10-01 (2013); Green: v11-01 (2013)
GICL1: Gila Wilderness
GLAC1: Glacier NP
GRBA1: Great Basin NP
GRCA2: Hance Camp at G
GRGU1: Great Gulf Wild
GRRI1: Great River Blu
GRSA1: Great Sand Dune
GRSM1: Great Smoky Mou
GUMO1: Guadalupe Mount
HALE1: Haleakala NP
HECA1: Hells Canyon
HEGL1: Hercules-Glades
HOOV1: Hoover
IKBA1: Ike's Backbone
INGA1: Indian Gardens
ISLE1: Isle Royale NP
J F M A M J J A S O N D
GEOS-Chem OCf (w/o SOA) [μgm-3]
IMPROVE OCf [μgm-3]


Red: v10-01 (2013); Green: v11-01 (2013)
JARB1: Jarbidge Wilder
JARI1: James River Fac
JOSH1: Joshua Tree NP
KAIS1: Kaiser
KALM1: Kalmiopsis
LABE1: Lava Beds NM
LASU2: Lake Sugema
LAVO1: Lassen Volcanic
LIGO1: Linville Gorge
LIVO1: Livonia
LOST1: Lostwood
LYBR1: Lye Brook Wilde
MACA1: Mammoth Cave NP
MAVI1: Martha's Vineya
MEAD1: Meadview
MELA1: Medicine Lake
J F M A M J J A S O N D
GEOS-Chem OCf (w/o SOA) [μgm-3]
IMPROVE OCf [μgm-3]


Red: v10-01 (2013); Green: v11-01 (2013)
MEVE1: Mesa Verde NP
MKGO1: M.K. Goddard
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NEBR1: Nebraska NF
NEYO1: New York City
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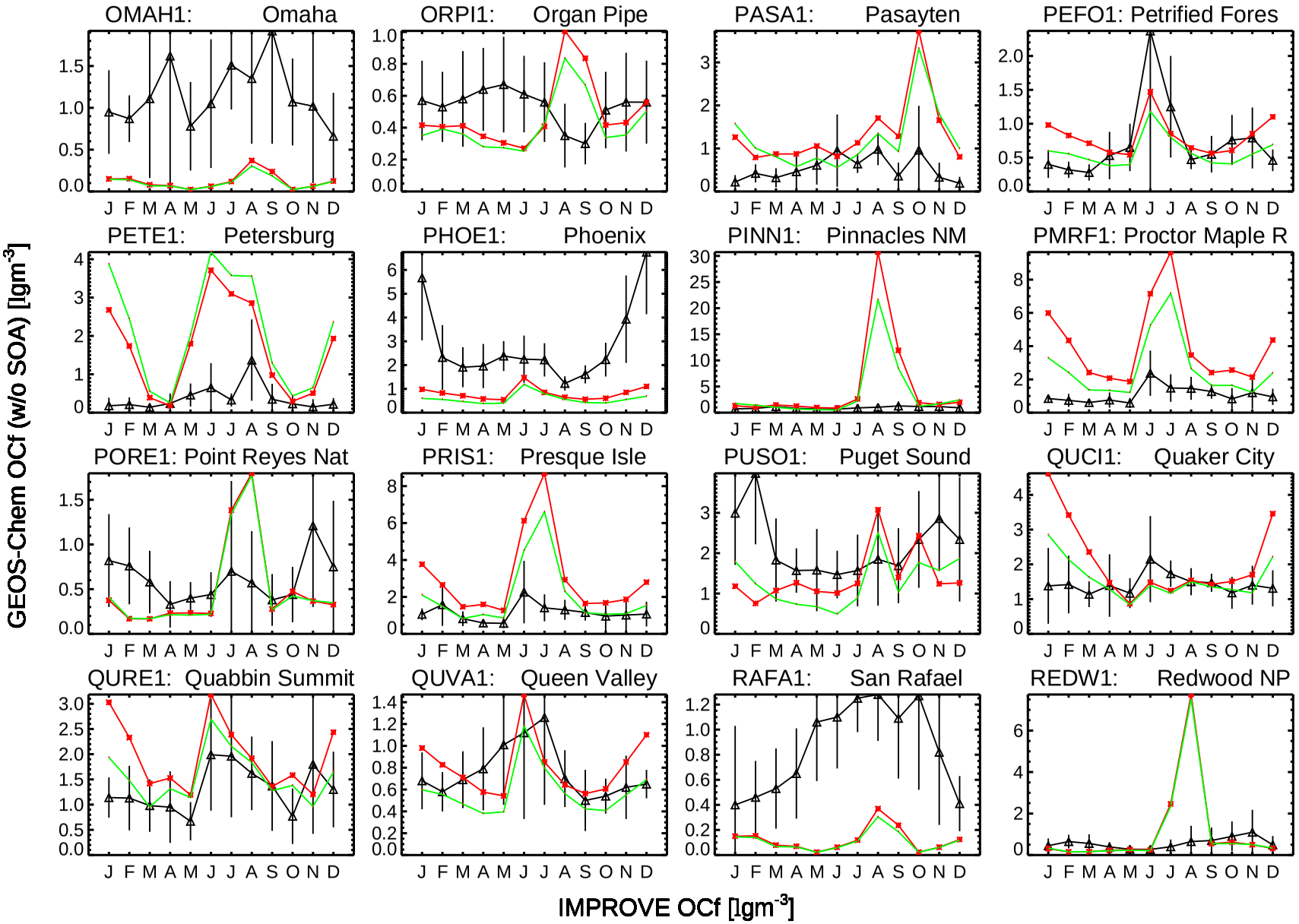
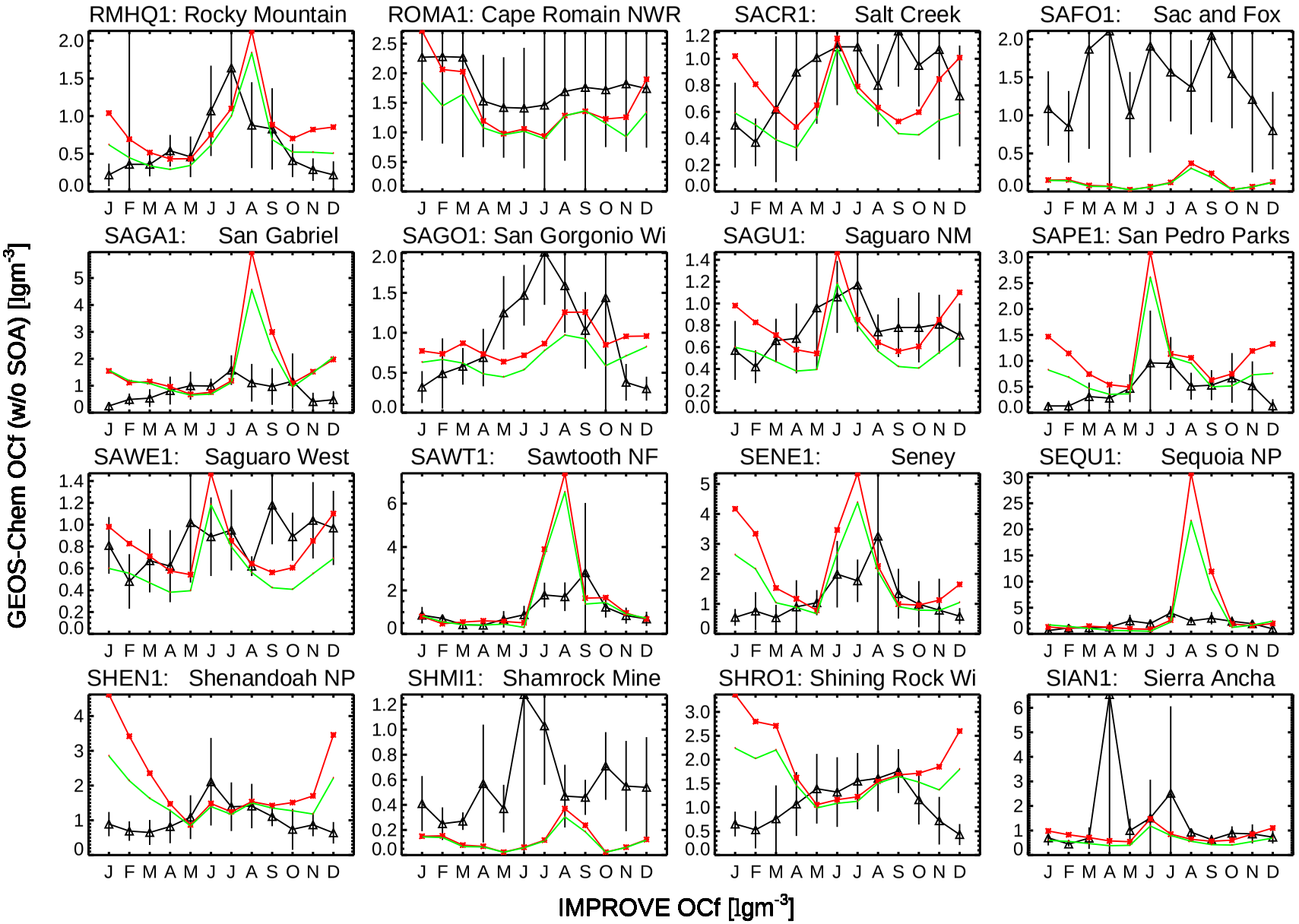
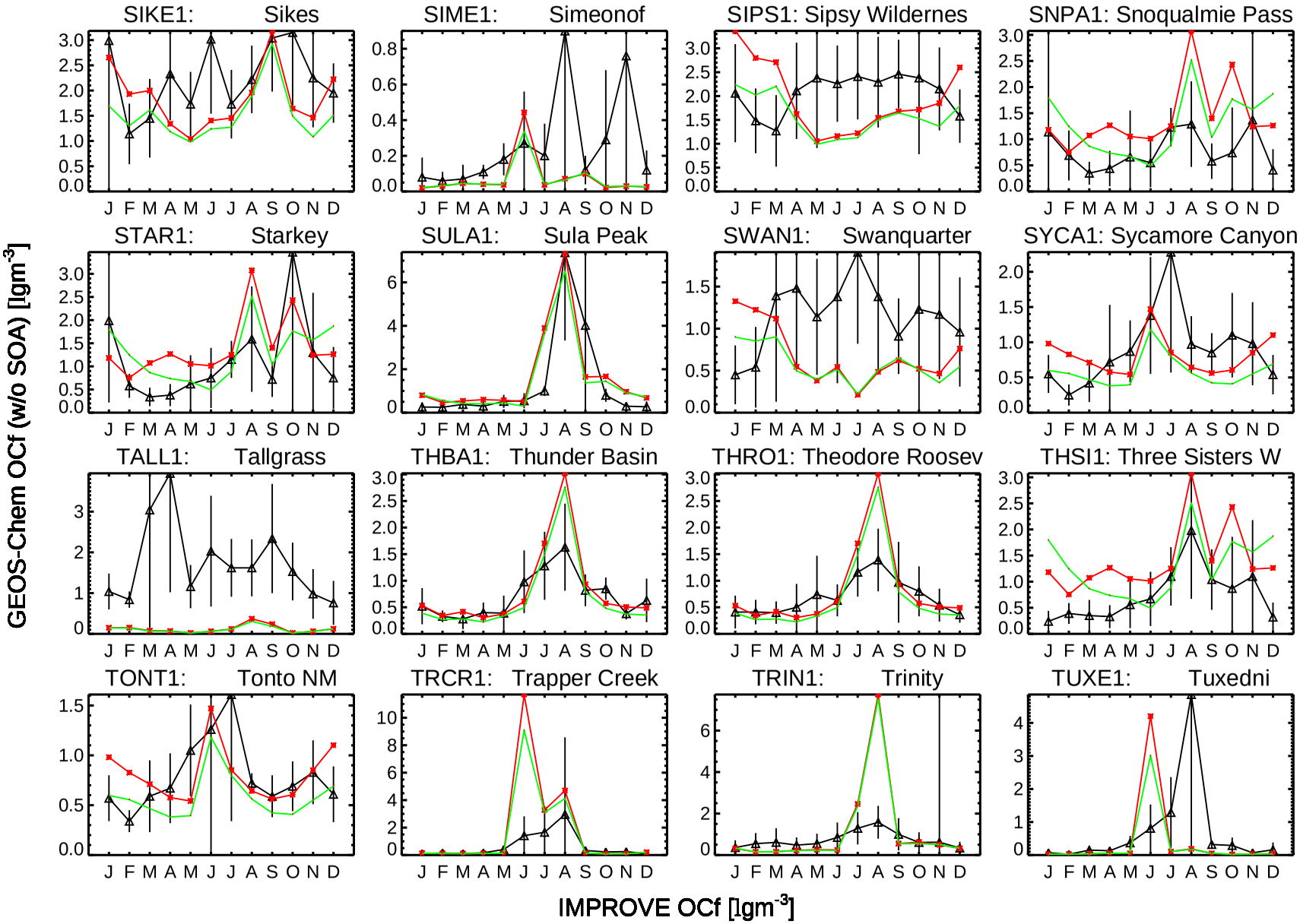
NOCA1: North Cascades
NOCH1: Northern Cheyen
OKEF1: Okefenokee NWR
OLTO1: Old Town
OLYM1: Olympic
J F M A M J J A S O N D
GEOS-Chem OCf (w/o SOA) [μgm-3]
IMPROVE OCf [μgm-3]

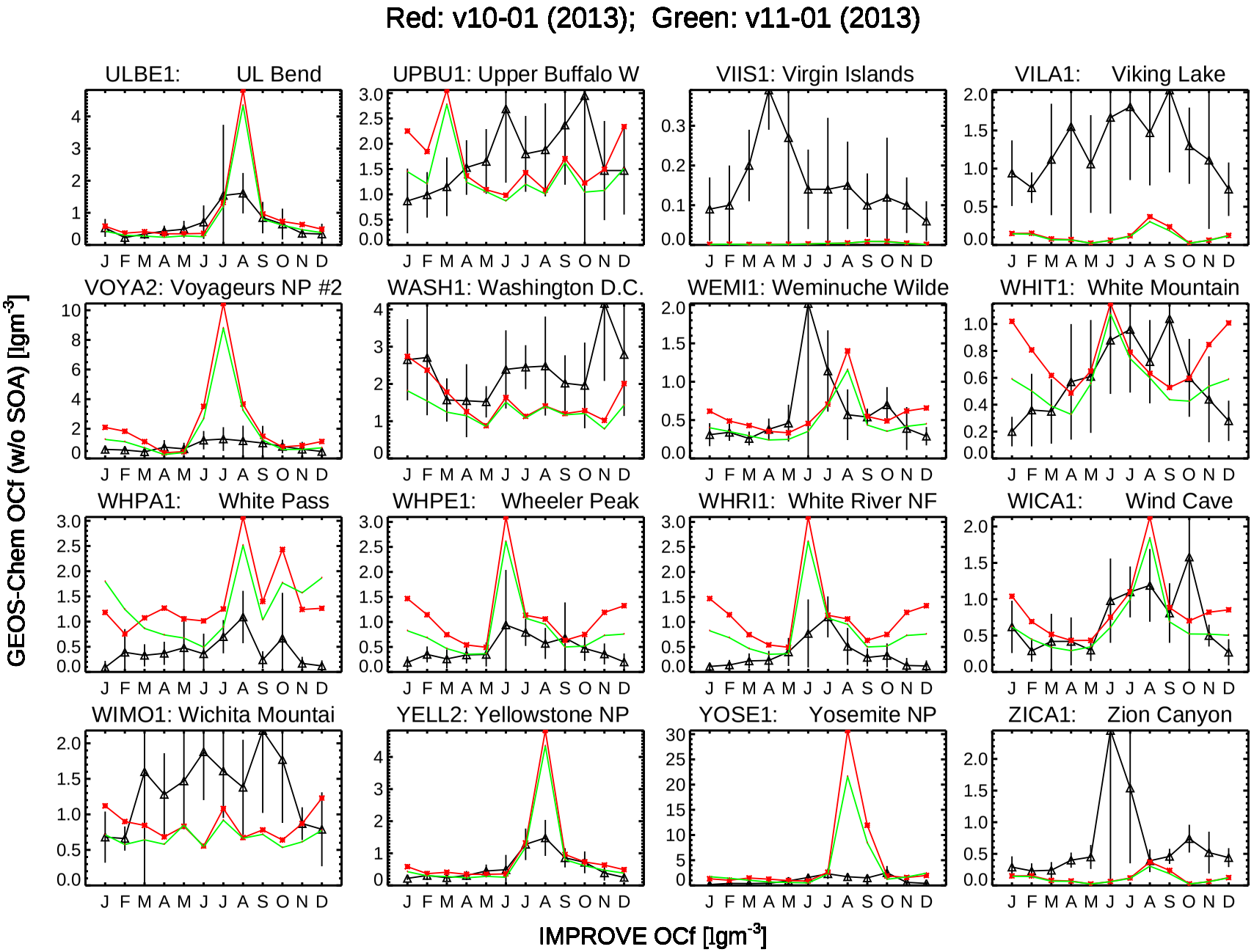

Red: v10-01 (2013); Green: v11-01 (2013)
OMAH1: Omaha
ORPI1: Organ Pipe
PASA1: Pasayten
PEFO1: Petrified Fores
PETE1: Petersburg
PHOE1: Phoenix
PINN1: Pinnacles NM
PMRF1: Proctor Maple R
PORE1: Point Reyes Nat
PRIS1: Presque Isle
PUSO1: Puget Sound
QUCI1: Quaker City
QURE1: Quabbin Summit
QUVA1: Queen Valley
RAFA1: San Rafael
REDW1: Redwood NP
J F M A M J J A S O N D
GEOS-Chem OCf (w/o SOA) [μgm-3]
IMPROVE OCf [μgm-3]

Red: v10-01 (2013); Green: v11-01 (2013)

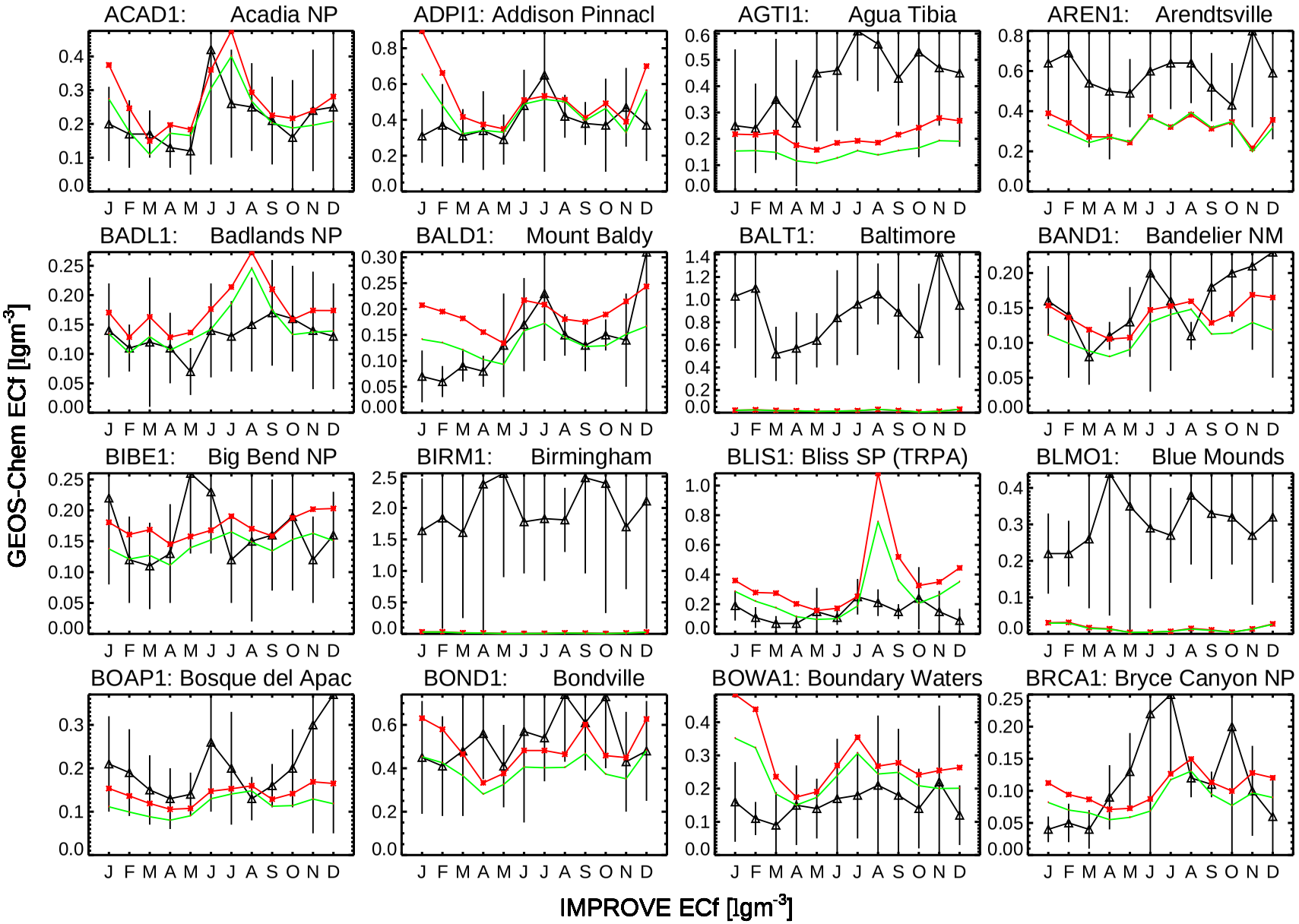


Red: v10-01 (2013); Green: v11-01 (2013)

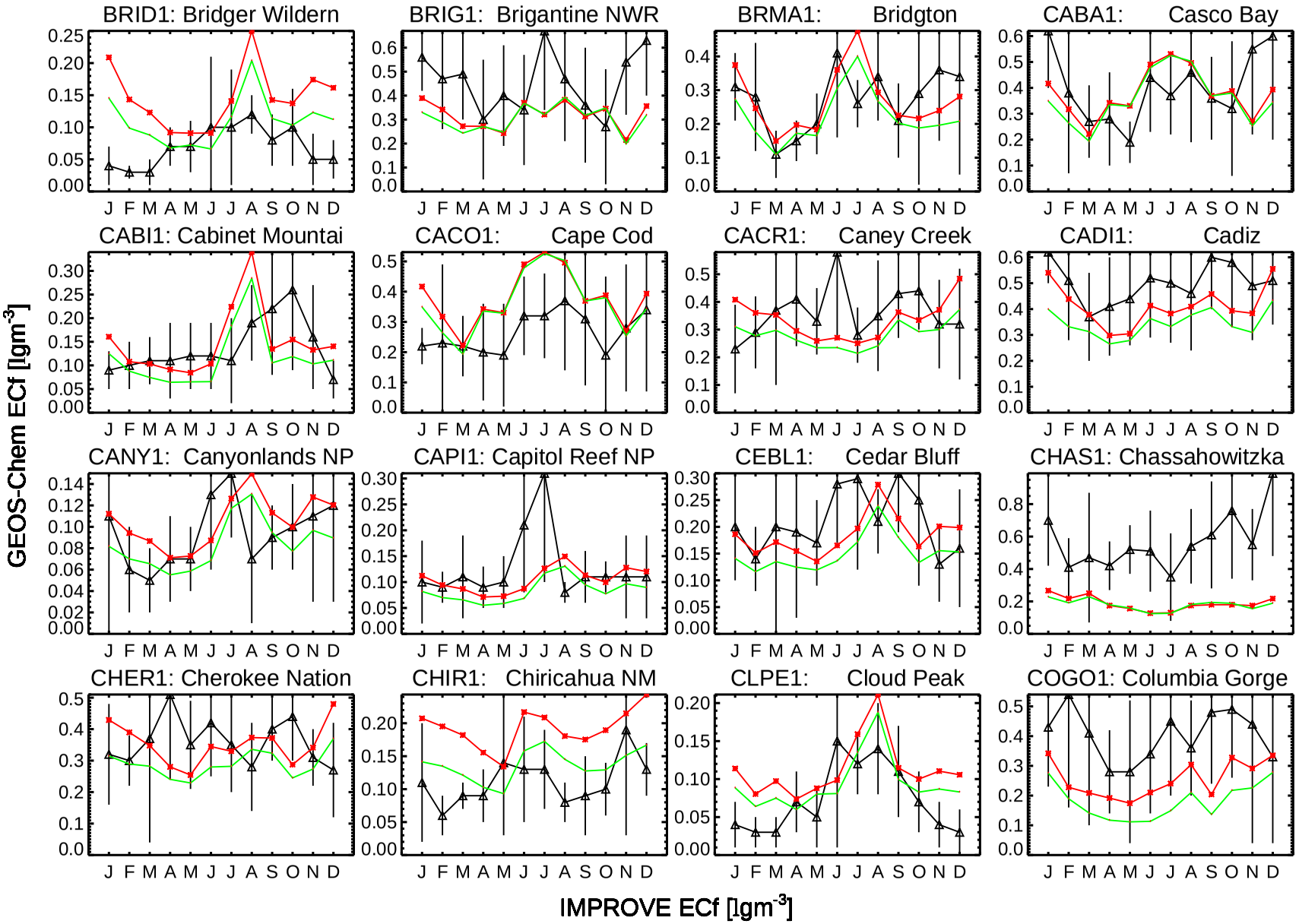



Red: v10-01 (2013); Green: v11-01 (2013)
ULBE1: UL Bend
UPBU1: Upper Buffalo W
VIIS1: Virgin Islands
VILA1: Viking Lake
VOYA2: Voyageurs NP #2
WASH1: Washington D.C.
WEMI1: Weminuche Wilde
WHIT1: White Mountain
WHPA1: White Pass
WHPE1: Wheeler Peak
WHRI1: White River NF
WICA1: Wind Cave
WIMO1: Wichita Mountai
YELL2: Yellowstone NP
YOSE1: Yosemite NP
ZICA1: Zion Canyon
J F M A M J J A S O N D
GEOS-Chem OCf (w/o SOA) [lgm-3]
IMPROVE OCf [lgm-3]

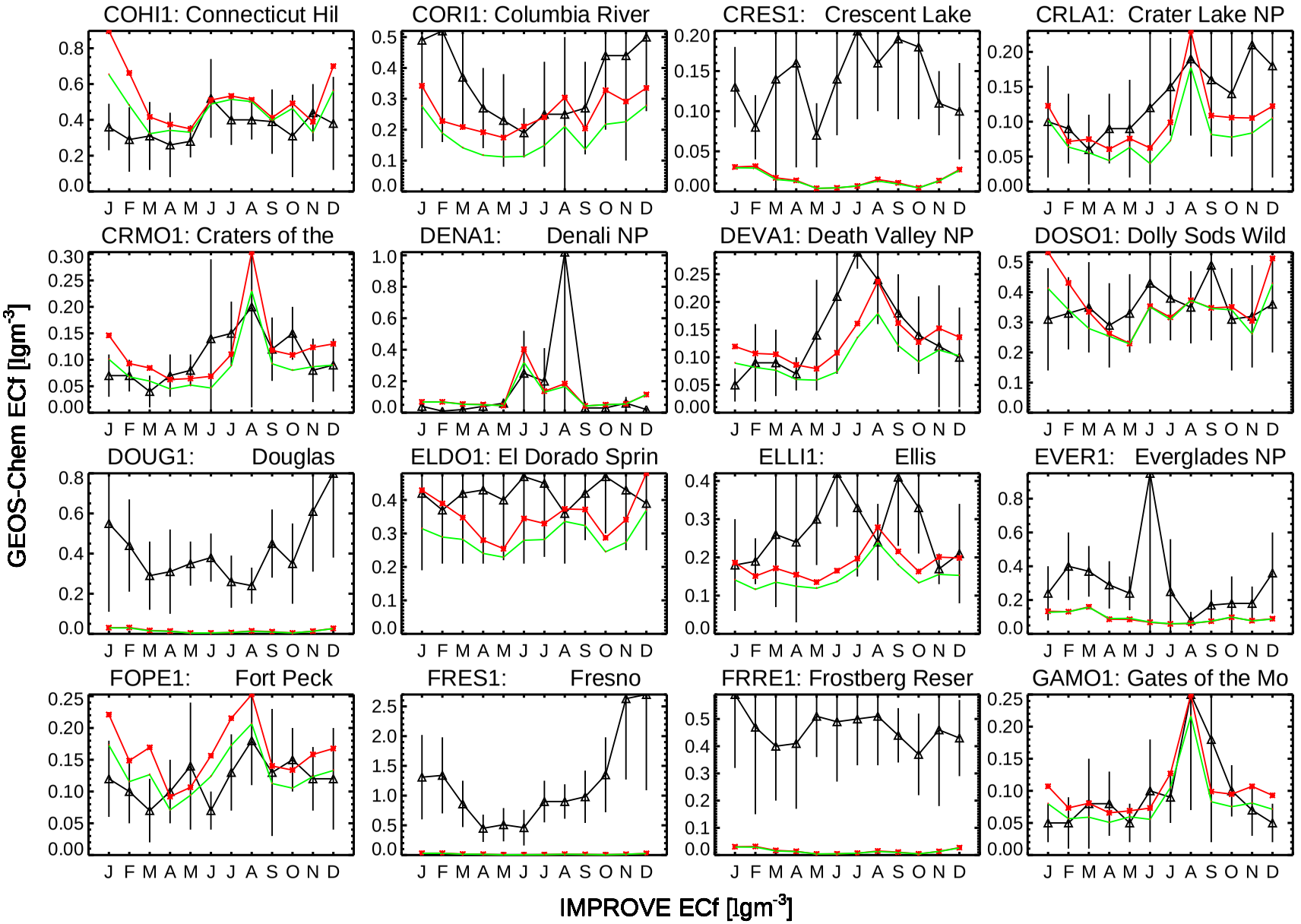
Red: v10-01 (2013); Green: v11-01 (2013)

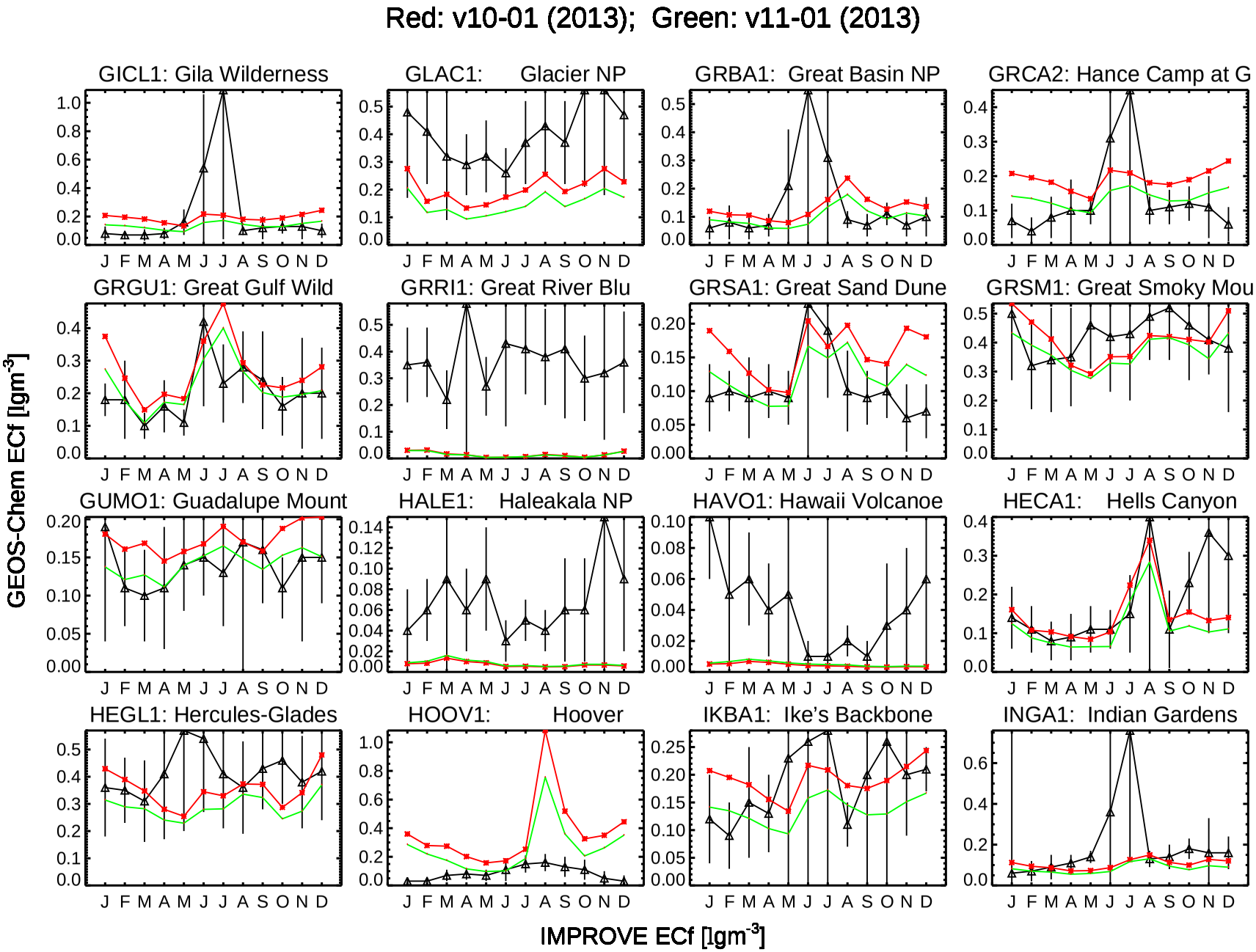


Red: v10-01 (2013); Green: v11-01 (2013)



Red: v10-01 (2013); Green: v11-01 (2013)




Red: v10-01 (2013); Green: v11-01 (2013)
GICL1: Gila Wilderness
GLAC1: Glacier NP
GRBA1: Great Basin NP
GRCA2: Hance Camp at G
GRGU1: Great Gulf Wild
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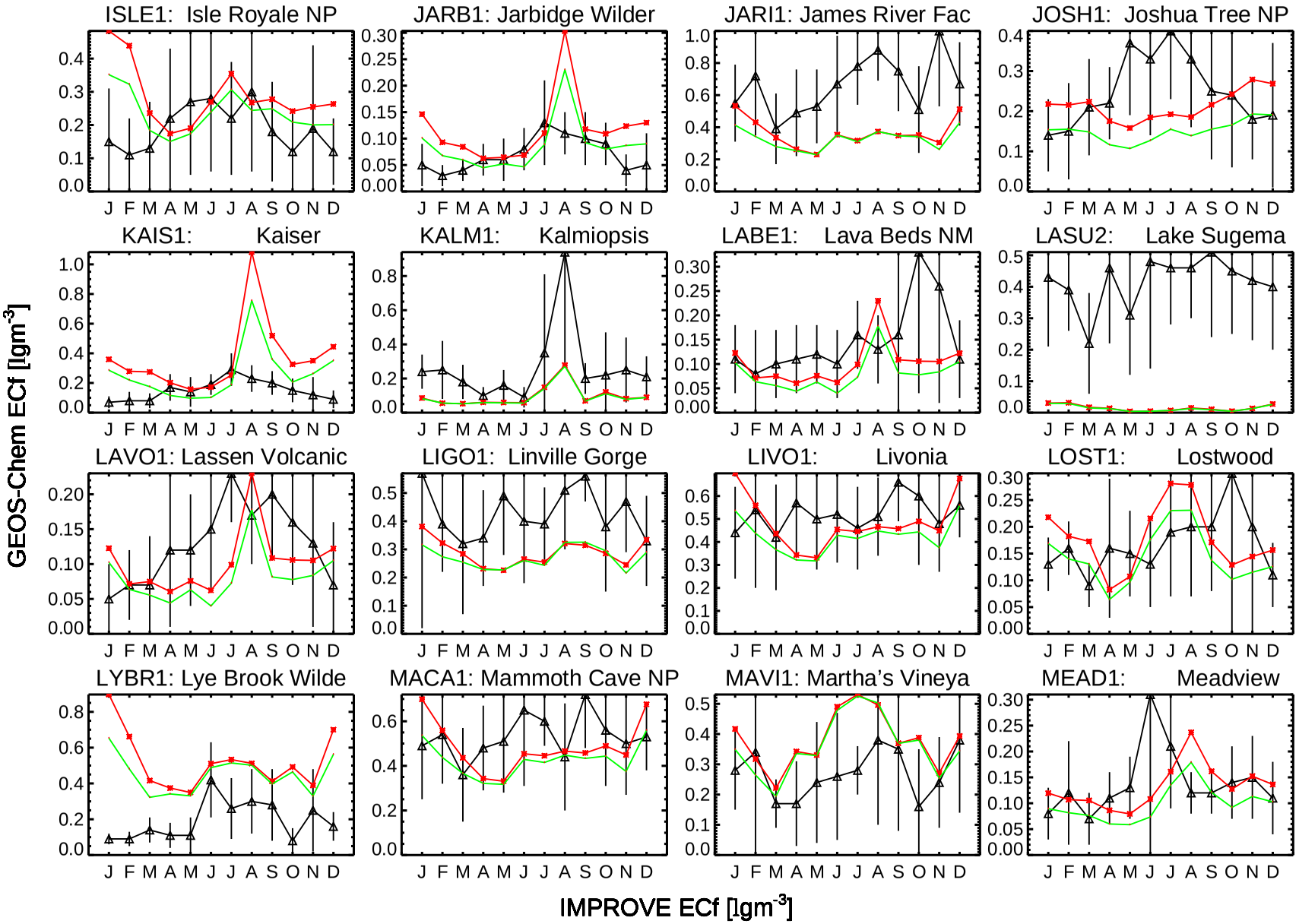
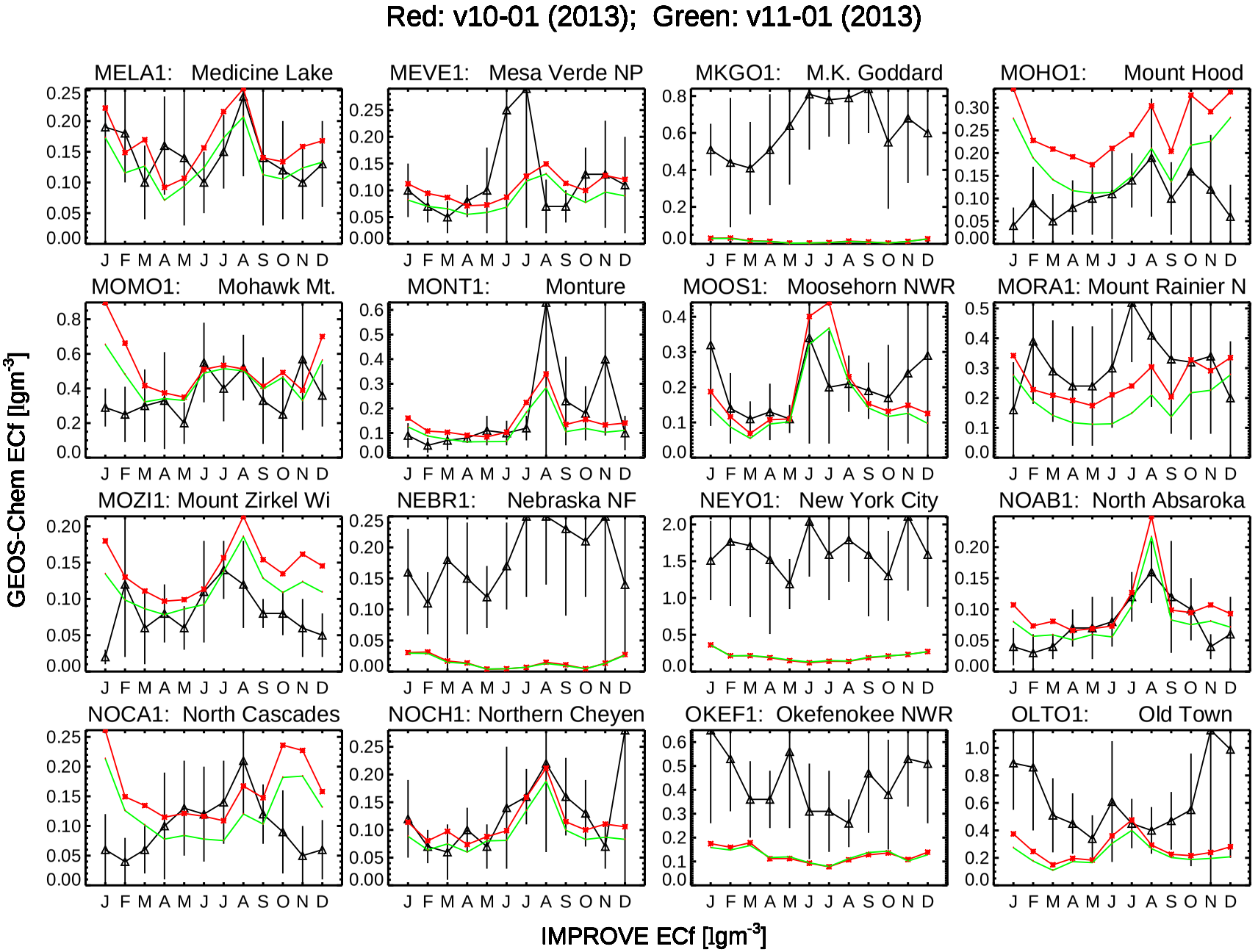
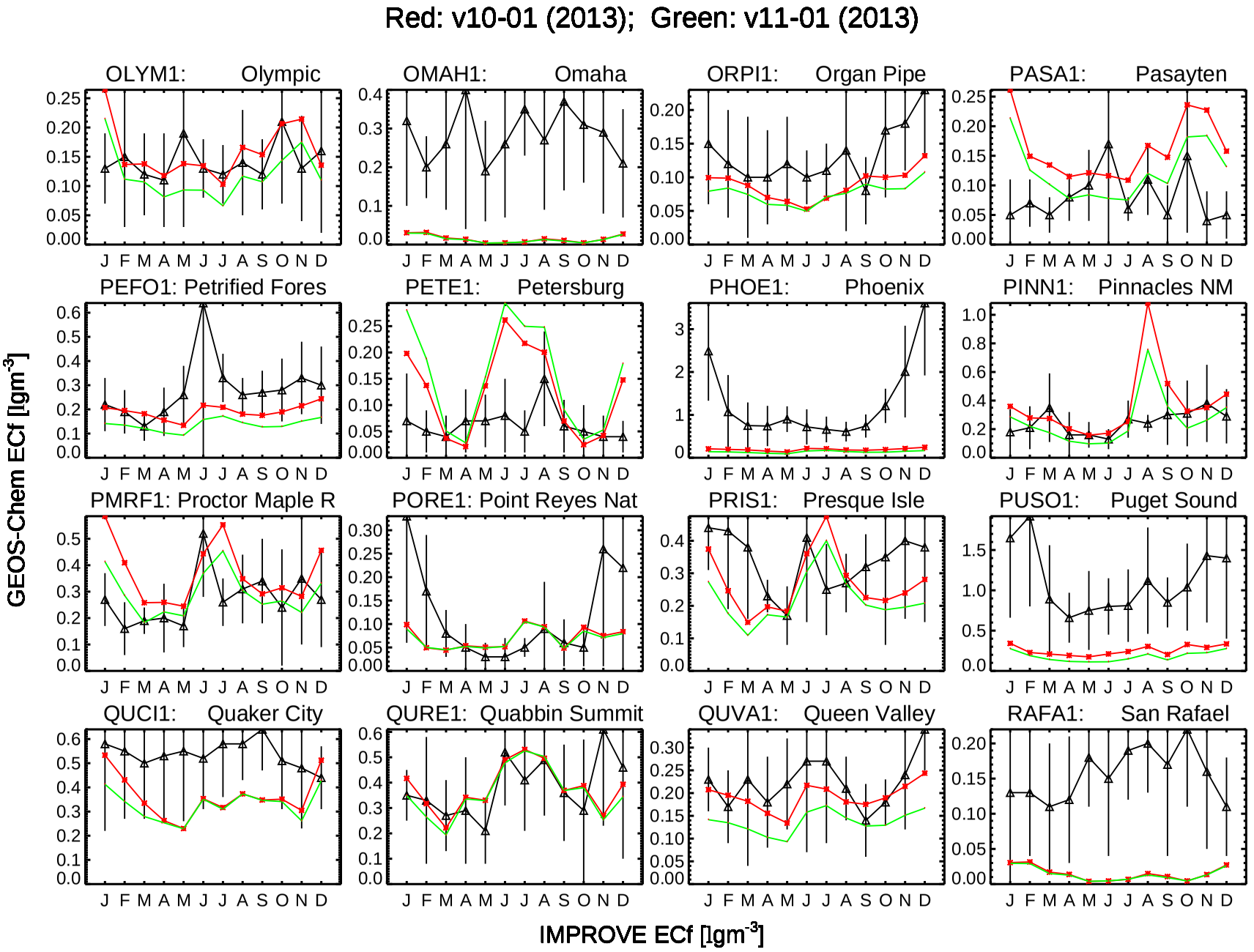
GRSA1: Great Sand Dune
GRSM1: Great Smoky Mou
GUMO1: Guadalupe Mount
HALE1: Haleakala NP
HAVO1: Hawaii Volcanoe
HECA1: Hells Canyon
HEGL1: Hercules-Glades
HOOV1: Hoover
IKBA1: Ike's Backbone
INGA1: Indian Gardens
J F M A M J J A S O N D
GEOS-Chem ECf [μgm-3]
IMPROVE ECf [μgm-3]

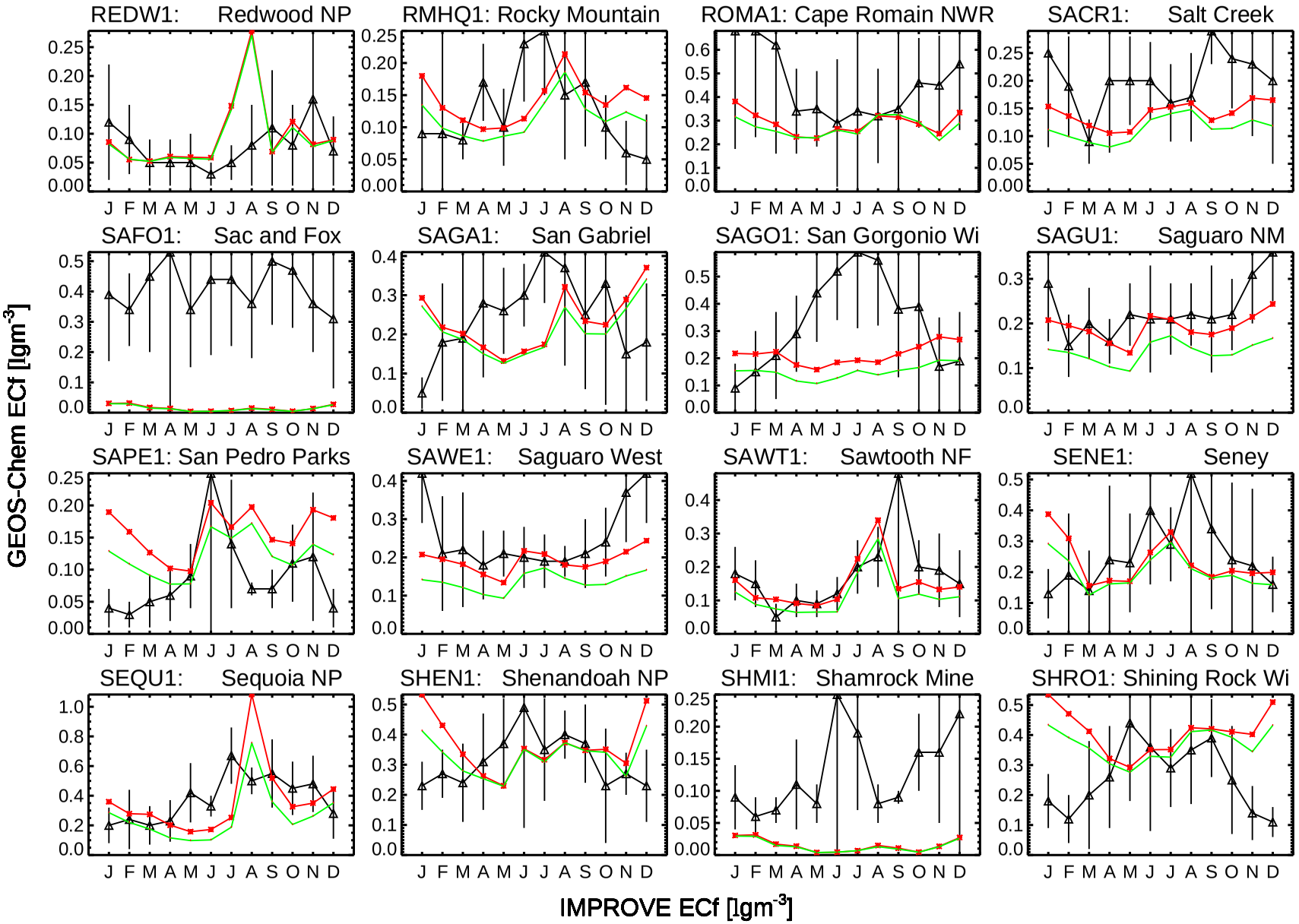
Red: v10-01 (2013); Green: v11-01 (2013)



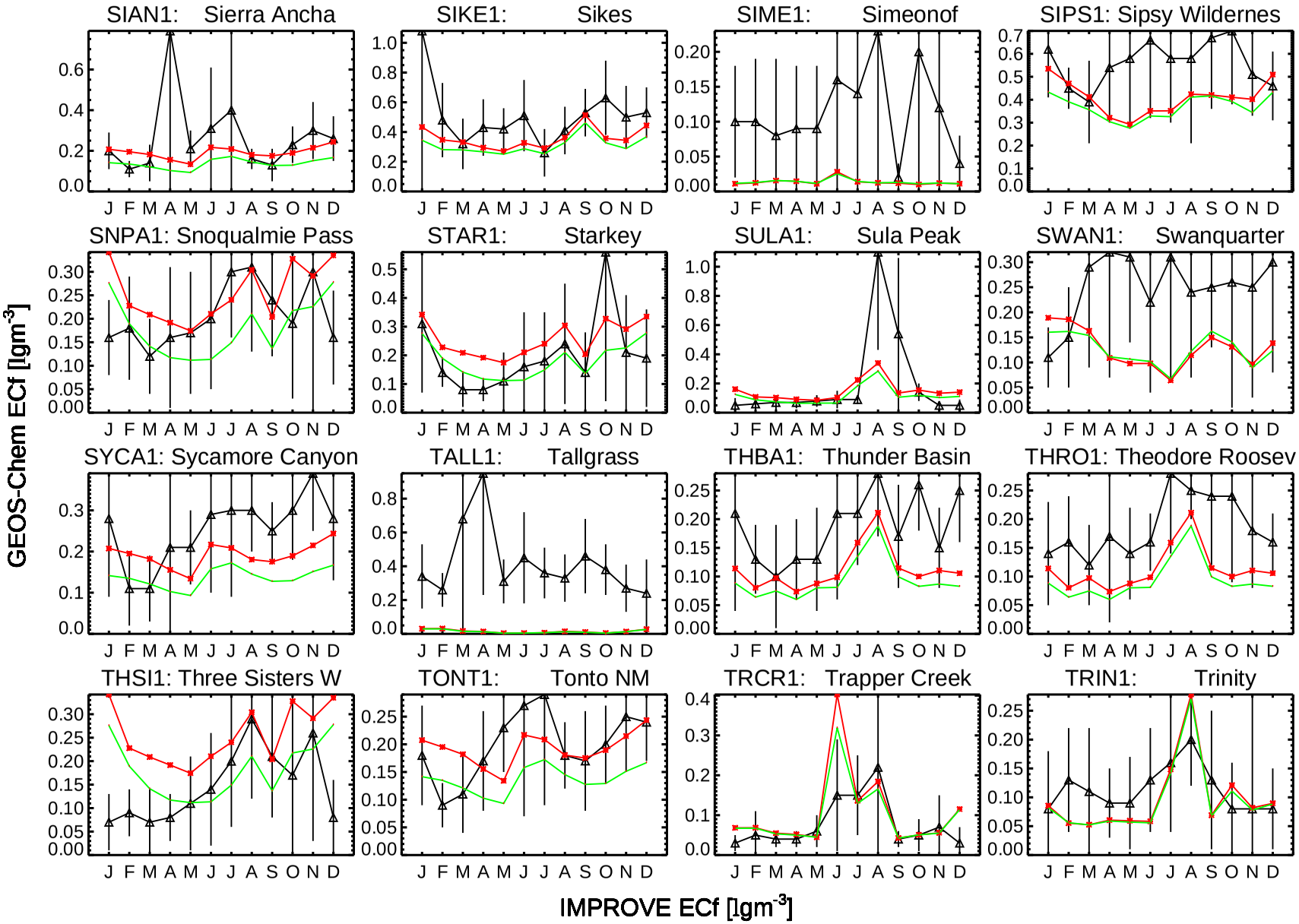

Red: v10-01 (2013); Green: v11-01 (2013)
MELA1: Medicine Lake
MEVE1: Mesa Verde NP
MKGO1: M.K. Goddard
MOHO1: Mount Hood
MOMO1: Mohawk Mt.
MONT1: Monture
MOOS1: Moosehorn NWR
MORA1: Mount Rainier N
MOZI1: Mount Zirkel Wi
NEBR1: Nebraska NF
NEYO1: New York City
NOAB1: North Absaroka
NOCA1: North Cascades
NOCH1: Northern Cheyen
OKEF1: Okefenokee NWR
OLTO1: Old Town
J F M A M J J A S O N D
GEOS-Chem ECf [μgm-3]
IMPROVE ECf [μgm-3]


Red: v10-01 (2013); Green: v11-01 (2013)
OLYM1: Olympic
OMAH1: Omaha
ORPI1: Organ Pipe
PASA1: Pasayten
PEFO1: Petrified Fores
PETE1: Petersburg
PHOE1: Phoenix
PINN1: Pinnacles NM
PMRF1: Proctor Maple R
PORE1: Point Reyes Nat
PRIS1: Presque Isle
PUSO1: Puget Sound
QUCI1: Quaker City
QURE1: Quabbin Summit
QUVA1: Queen Valley
RAFA1: San Rafael
J F M A M J J A S O N D
GEOS-Chem ECf [μgm-3]
IMPROVE ECf [μgm-3]

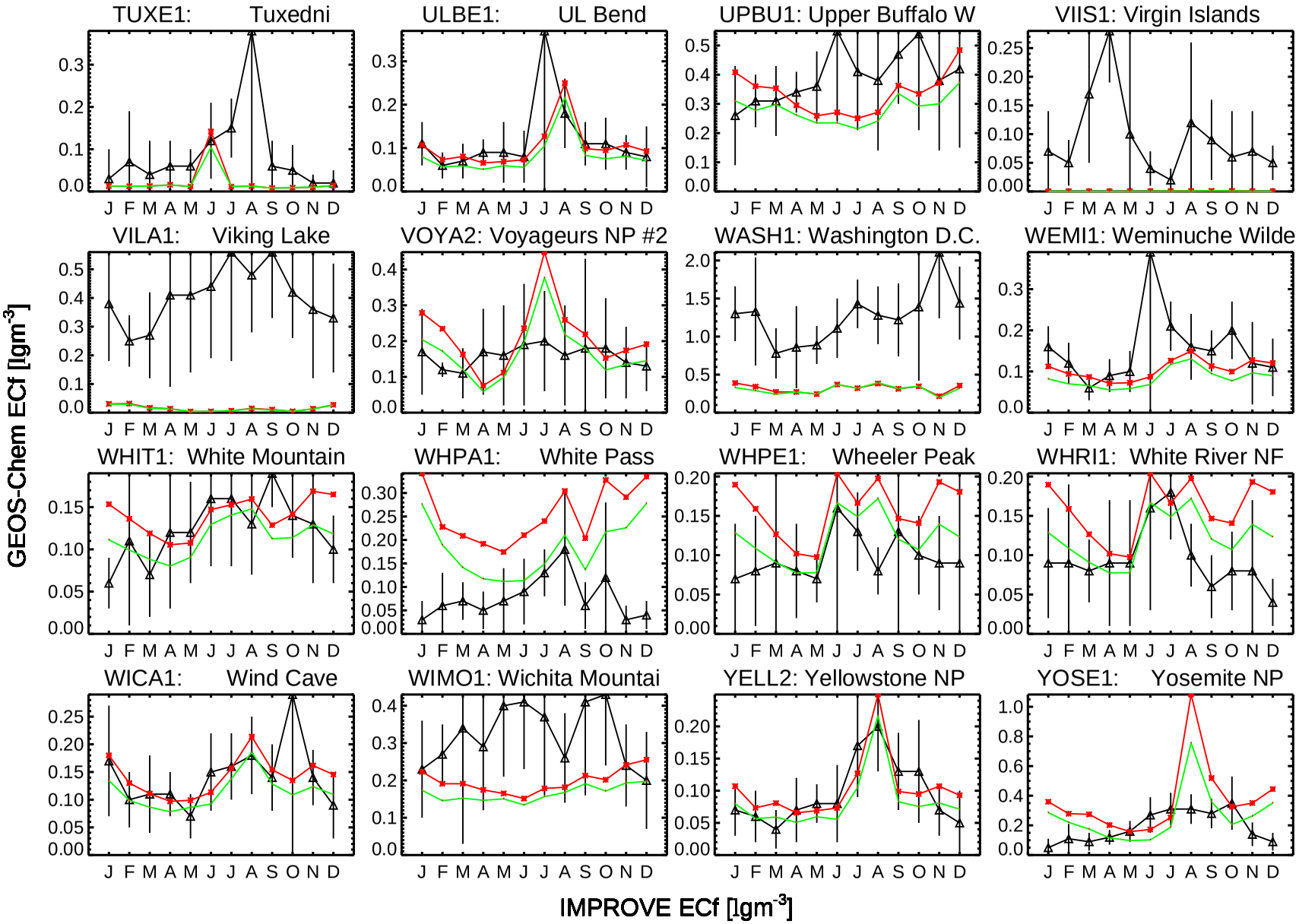
Red: v10-01 (2013); Green: v11-01 (2013)



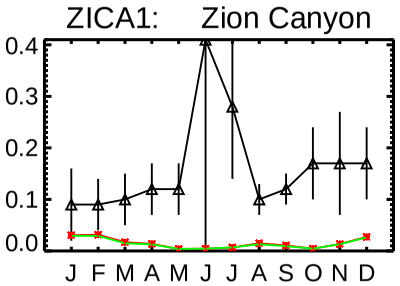
Red: v10-01 (2013); Green: v11-01 (2013)



Red: v10-01 (2013); Green: v11-01 (2013)



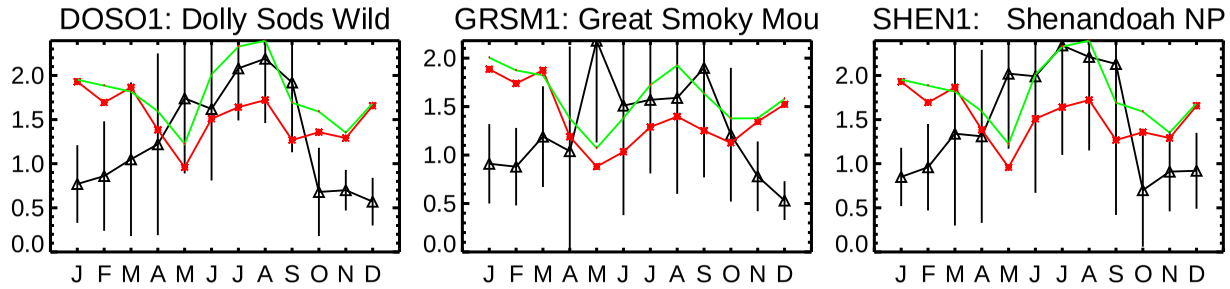
Red: v10-01 (2013); Green: v11-01 (2013)



GEOS-Chem ECf [lgm^{-3}]

IMPROVE ECf [lgm^{-3}]

Red: v10-01 (2013); Green: v11-01 (2013)



GEOS-Chem NH4f [μgm^{-3}]

IMPROVE NH4f [μgm^{-3}]