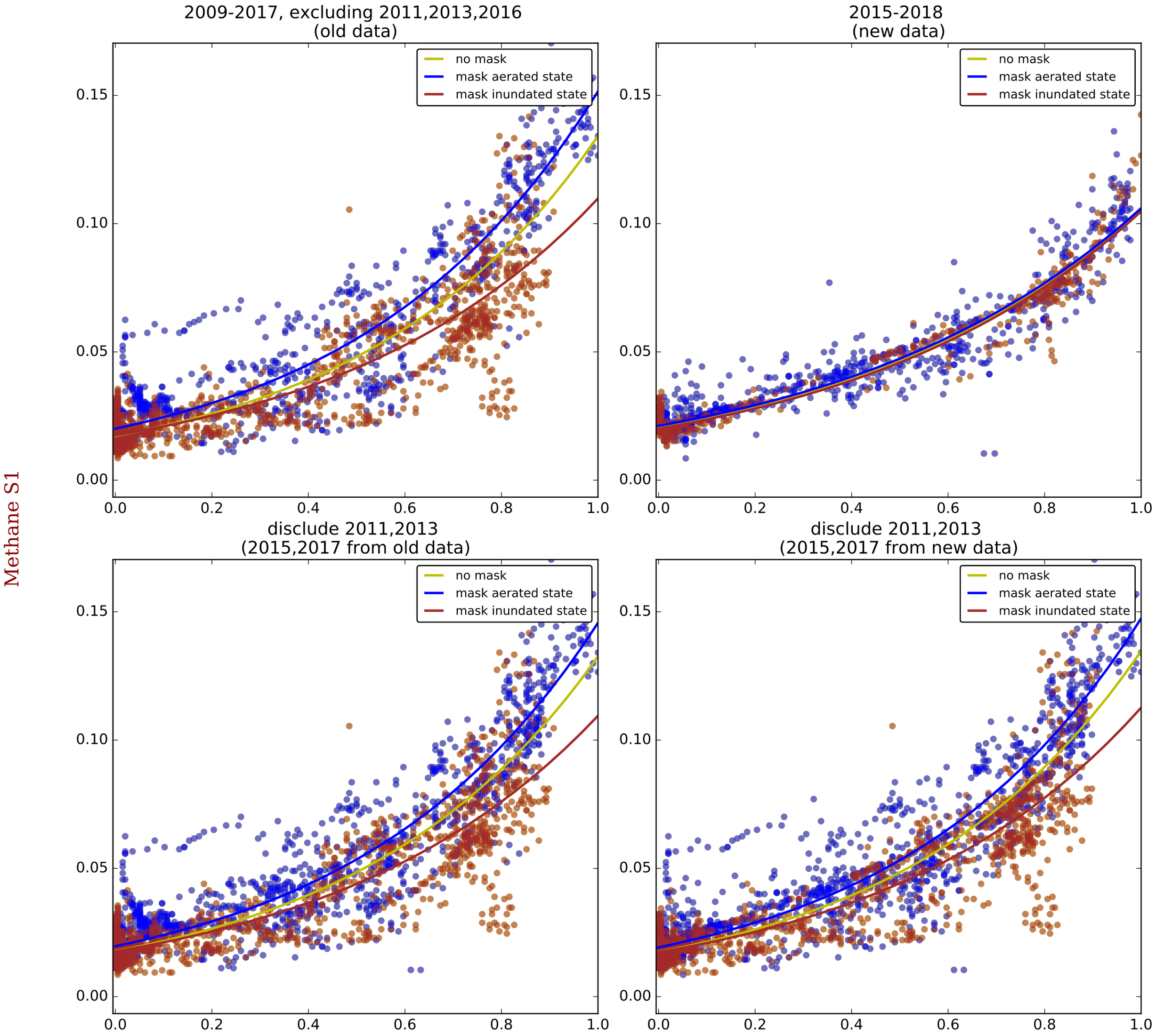
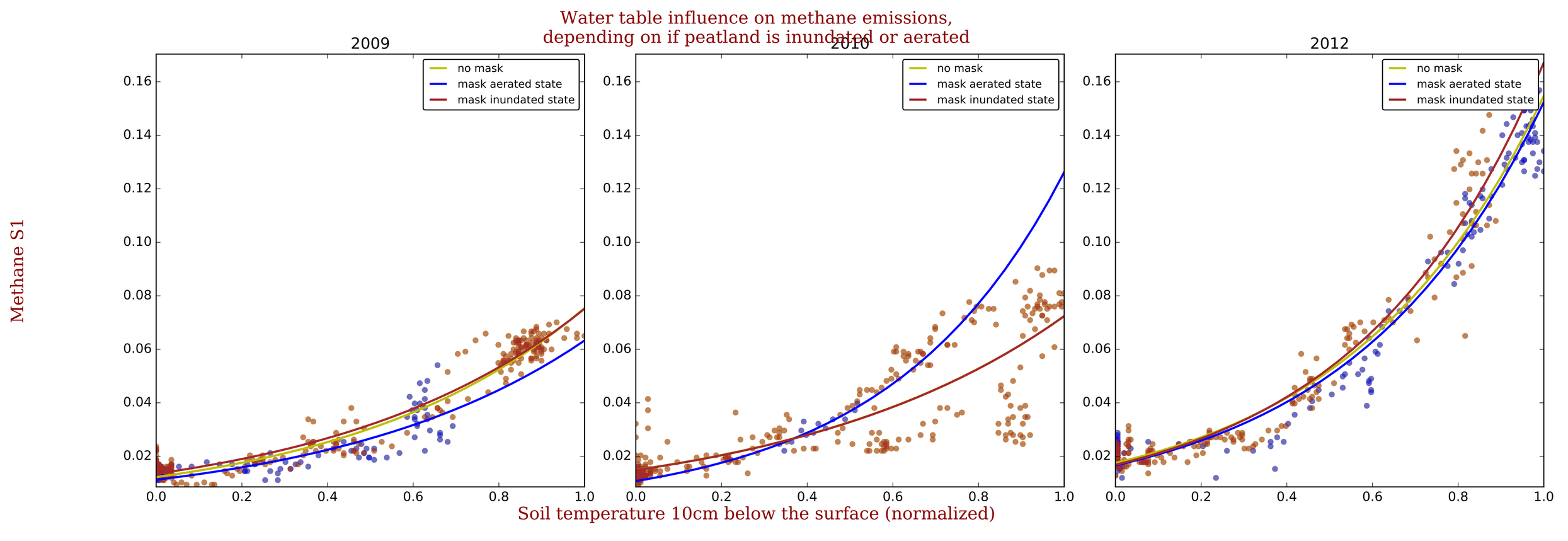
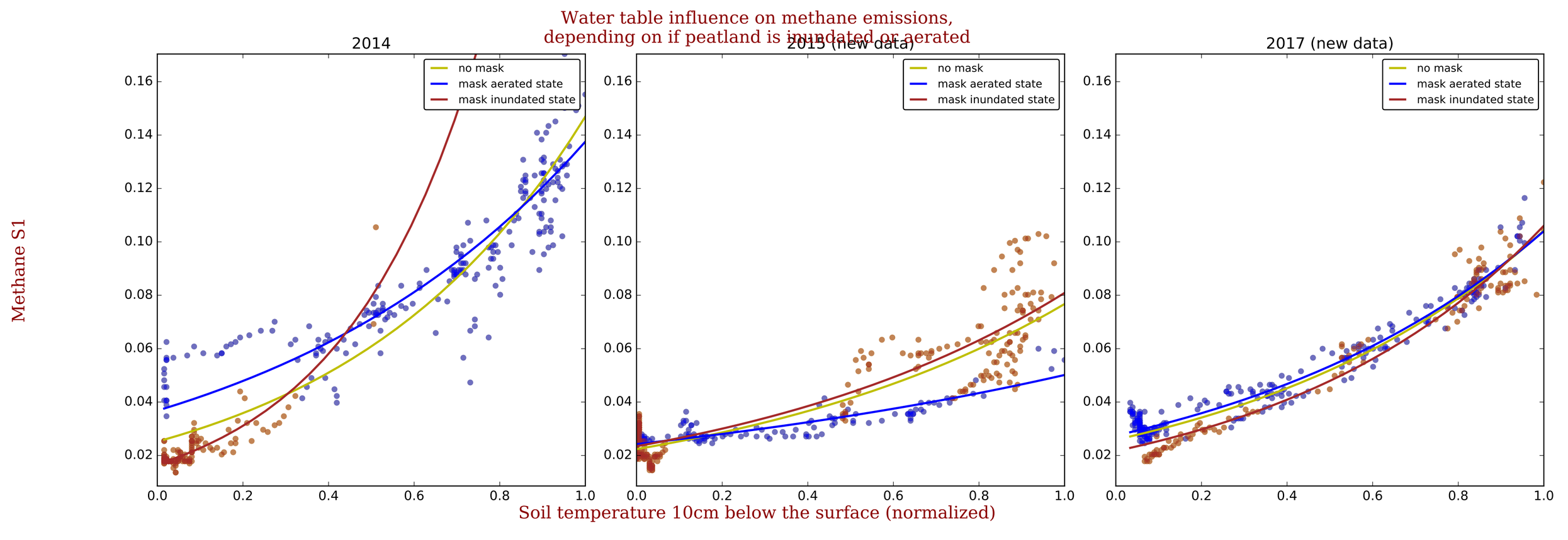
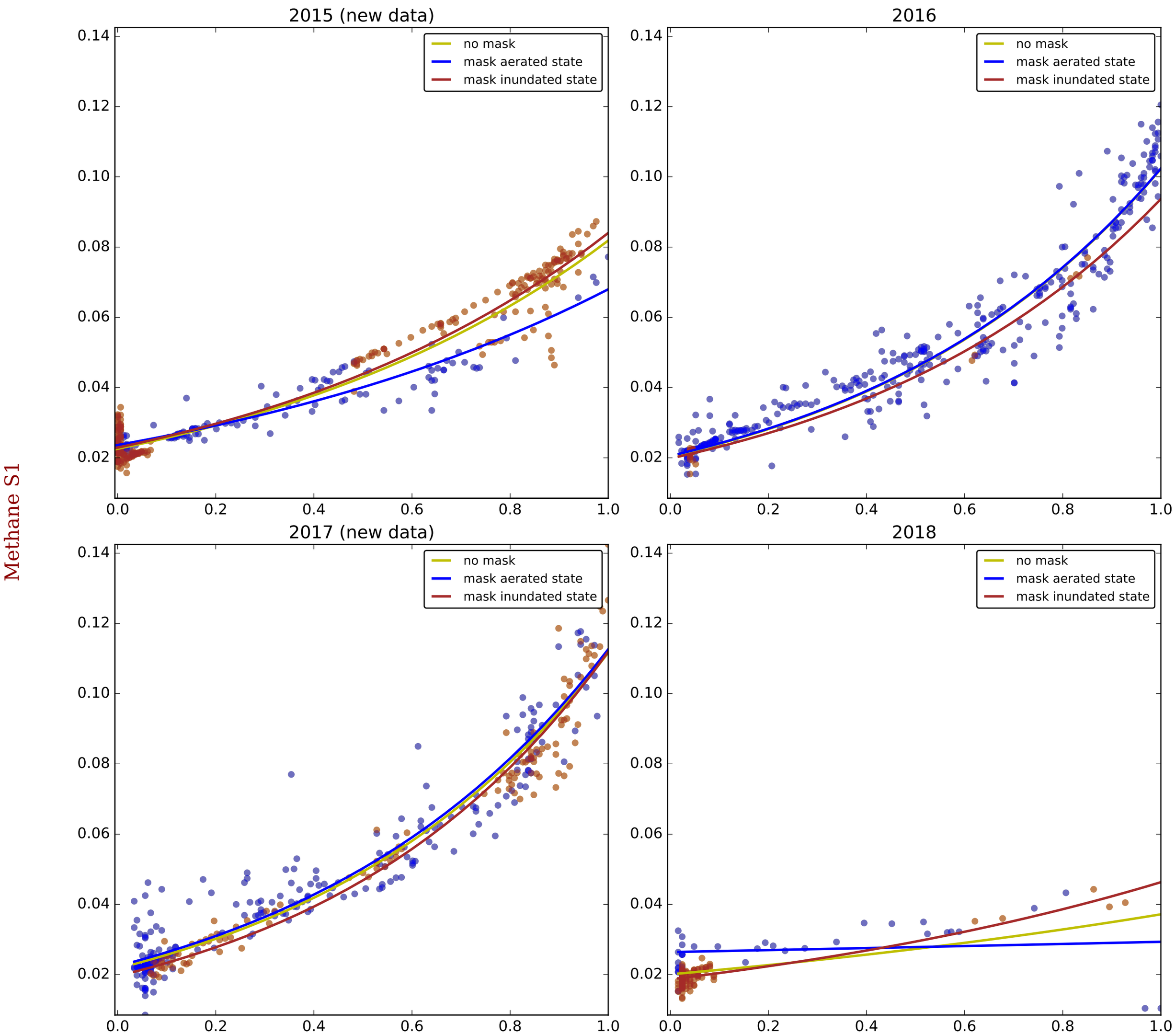
Water table influence on methane emissions, depending on if peatland is inundated or aerated




Water table influence on methane emissions,
depending on if peatland is inundated or aerated
2009
2010
2012
no mask
mask aerated state
mask inundated state
Methane S1
Soil temperature 10cm below the surface (normalized)
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16
0.0
0.2
0.4
0.6
0.8
1.0


Water table influence on methane emissions,
depending on if peatland is inundated or aerated
2014
2015 (new data)
2017 (new data)
no mask
mask aerated state
mask inundated state
Methane S1
Soil temperature 10cm below the surface (normalized)
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16
0.0
0.2
0.4
0.6
0.8
1.0

Water table influence on methane emissions, depending on if peatland is inundated or aerated



Water table influence on methane emissions, depending on if peatland is inundated or aerated

2009-2017, excluding 2011,2013,2016
(old data)

2015-2018
(new data)

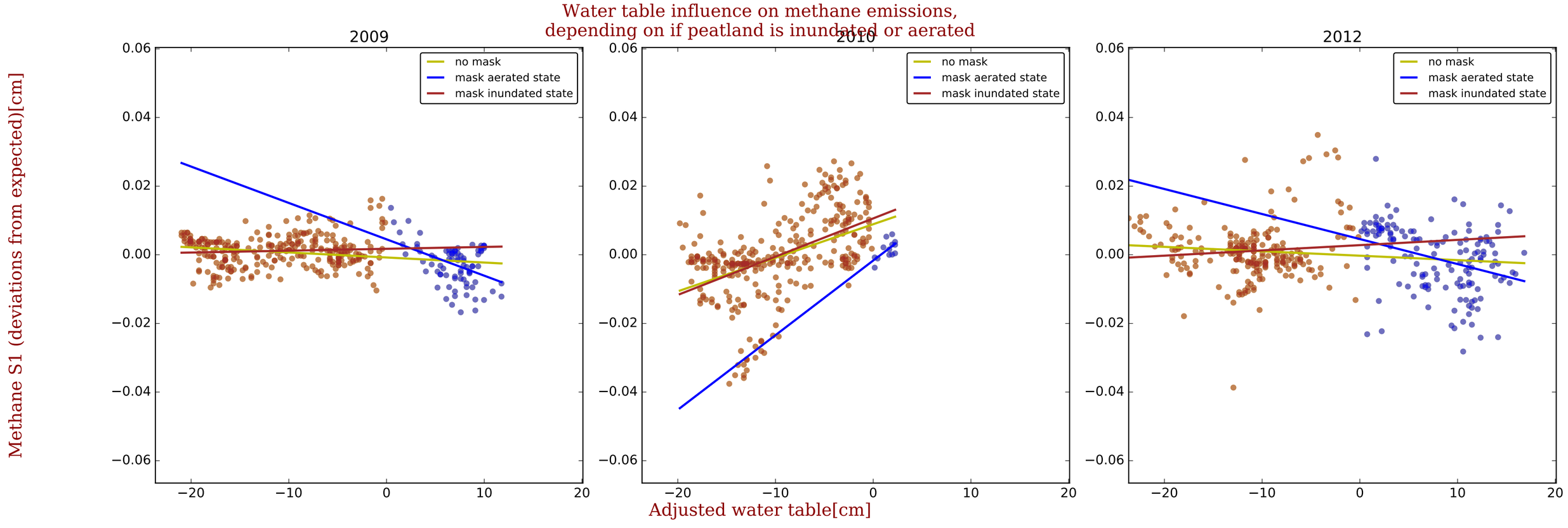
disclude 2011,2013
(2015,2017 from old data)

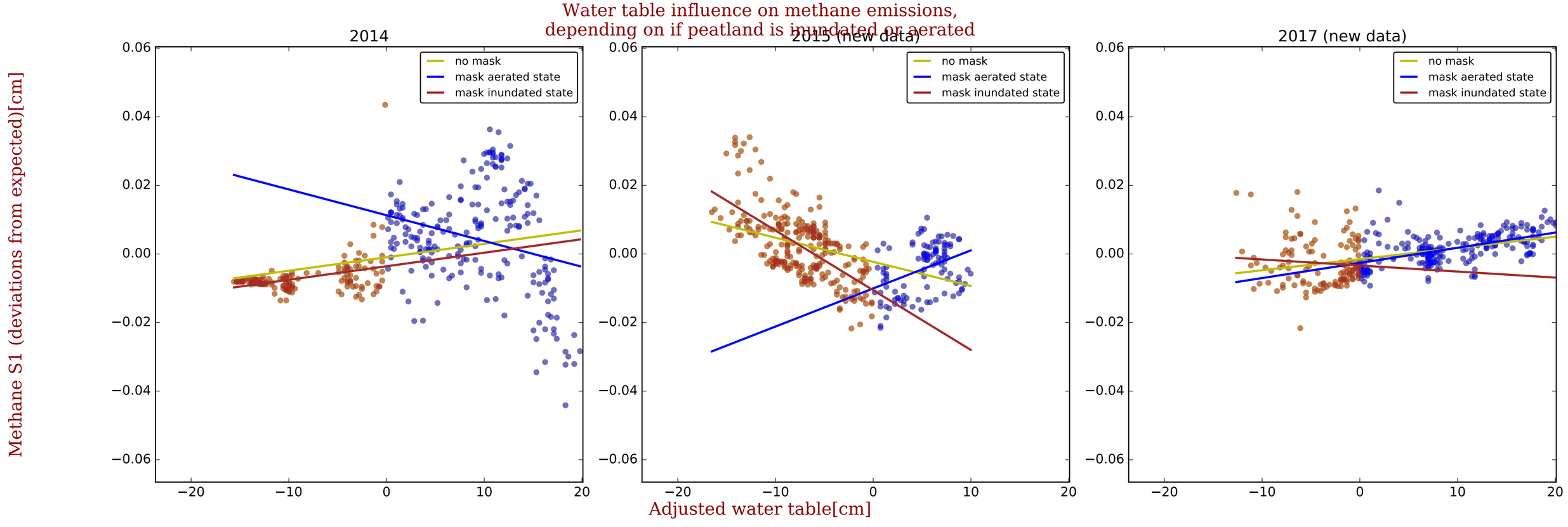
disclude 2011,2013
(2015,2017 from new data)

no mask
mask aerated state
mask inundated state

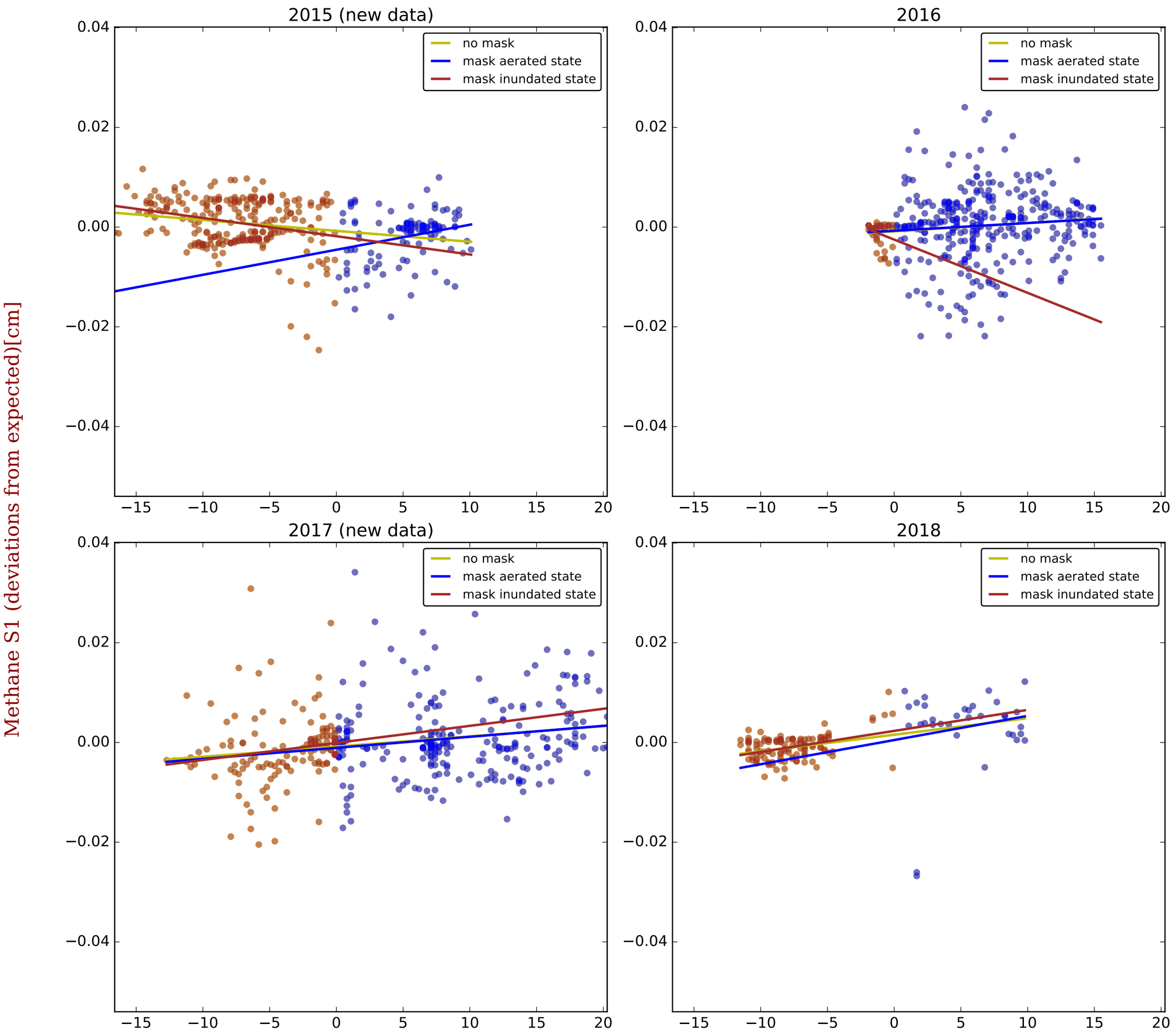
Methane S1 (deviations from expected)[cm]

Adjusted water table[cm]


Water table influence on methane emissions,
depending on if peatland is inundated or aerated
2009
2010
2012
no mask
mask aerated state
mask inundated state
Methane S1 (deviations from expected)[cm]
Adjusted water table[cm]
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
−20
−10
0
10
20


Water table influence on methane emissions,
depending on if peatland is inundated or aerated
2014
2015 (new data)
2017 (new data)
no mask
mask aerated state
mask inundated state
Methane S1 (deviations from expected)[cm]
Adjusted water table[cm]
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
−20
−10
0
10
20

Water table influence on methane emissions, depending on if peatland is inundated or aerated



Water table influence on methane emissions, depending on if peatland is inundated or aerated

2009-2017, excluding 2011,2013,2016
(old data)

2015-2018
(new data)

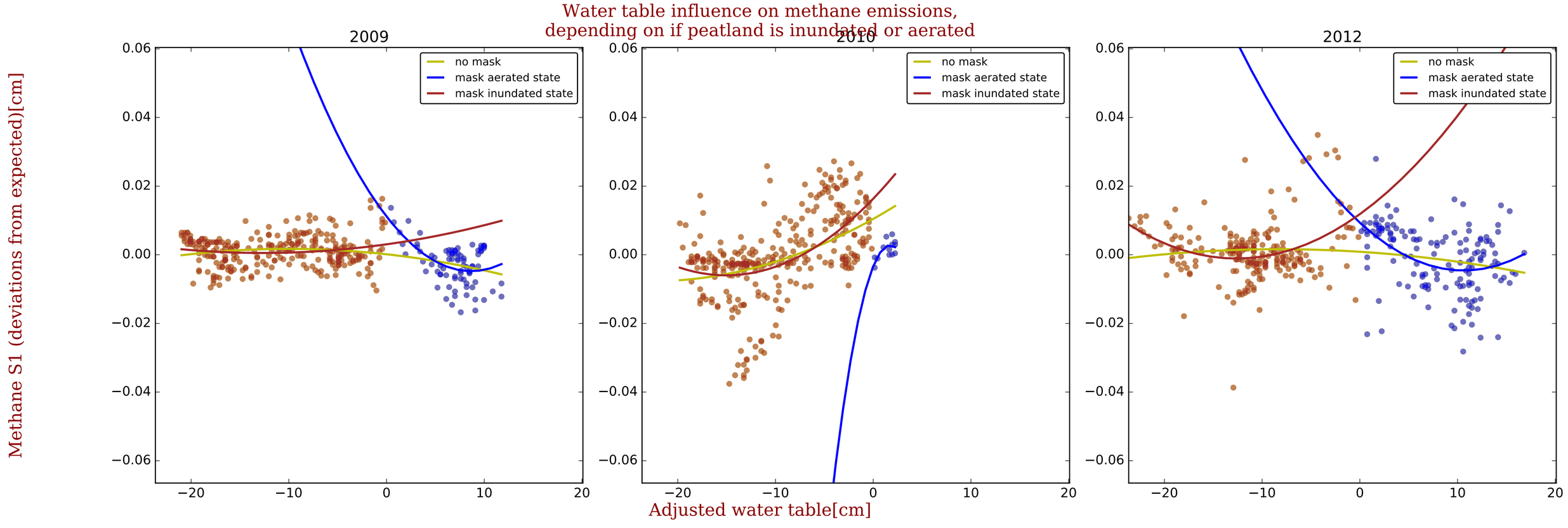
disclude 2011,2013
(2015,2017 from old data)

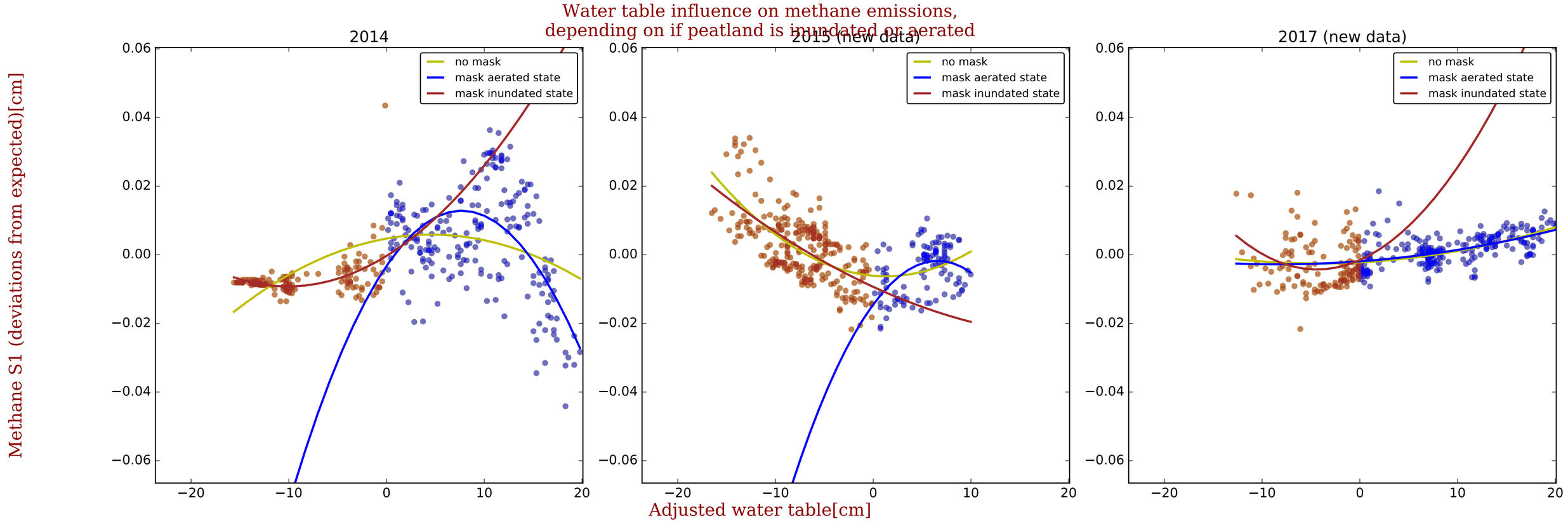
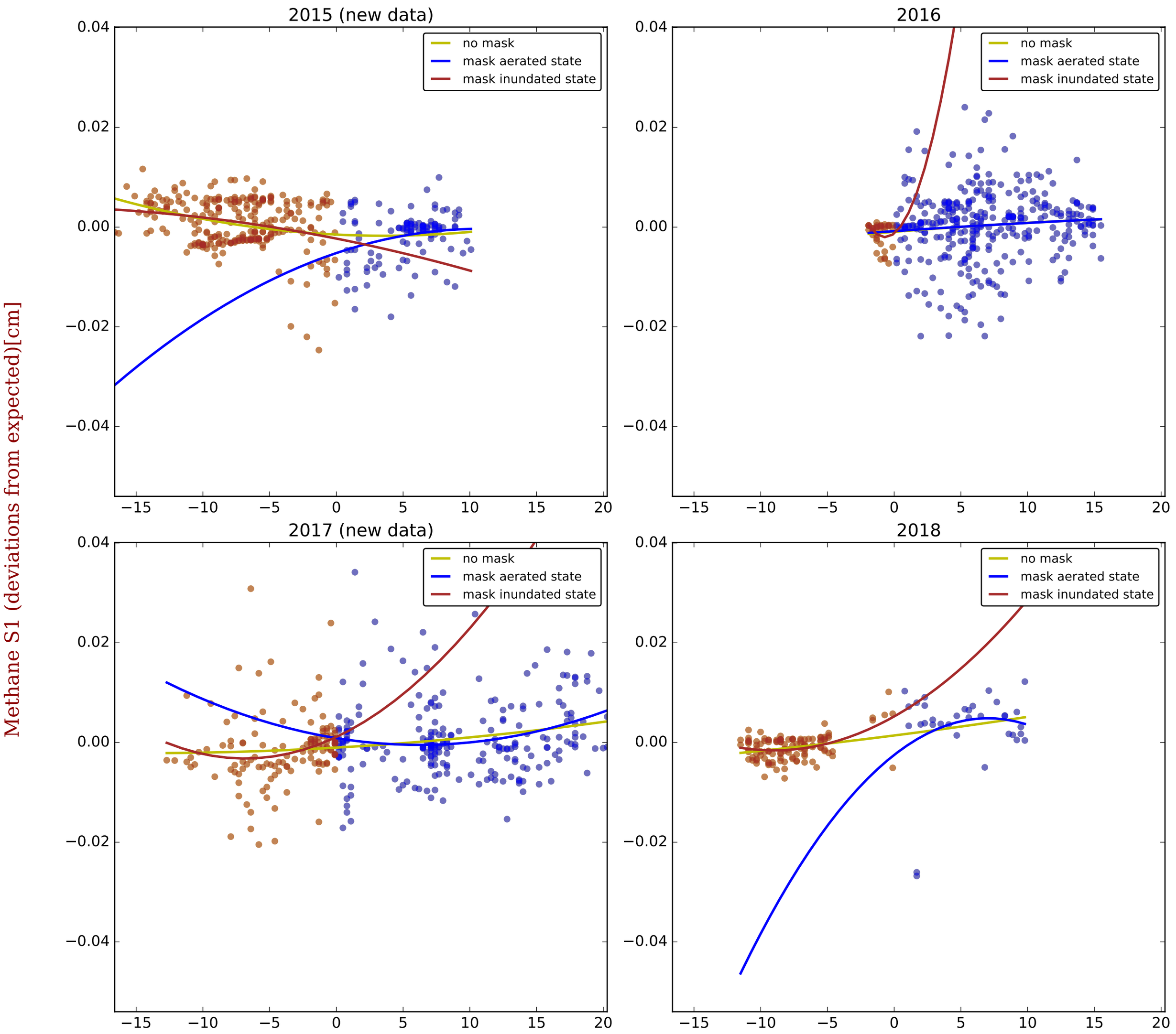
disclude 2011,2013
(2015,2017 from new data)

no mask
mask aerated state
mask inundated state

Methane S1 (deviations from expected)[cm]

Adjusted water table[cm]


Water table influence on methane emissions,
depending on if peatland is inundated or aerated
2009
2010
2012
no mask
mask aerated state
mask inundated state
Methane S1 (deviations from expected)[cm]
Adjusted water table[cm]
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
−20
−10
0
10
20


Water table influence on methane emissions,
depending on if peatland is inundated or aerated
2014
2015 (new data)
2017 (new data)
no mask
mask aerated state
mask inundated state
Methane S1 (deviations from expected)[cm]
Adjusted water table[cm]
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
−20
−10
0
10
20

Water table influence on methane emissions, depending on if peatland is inundated or aerated