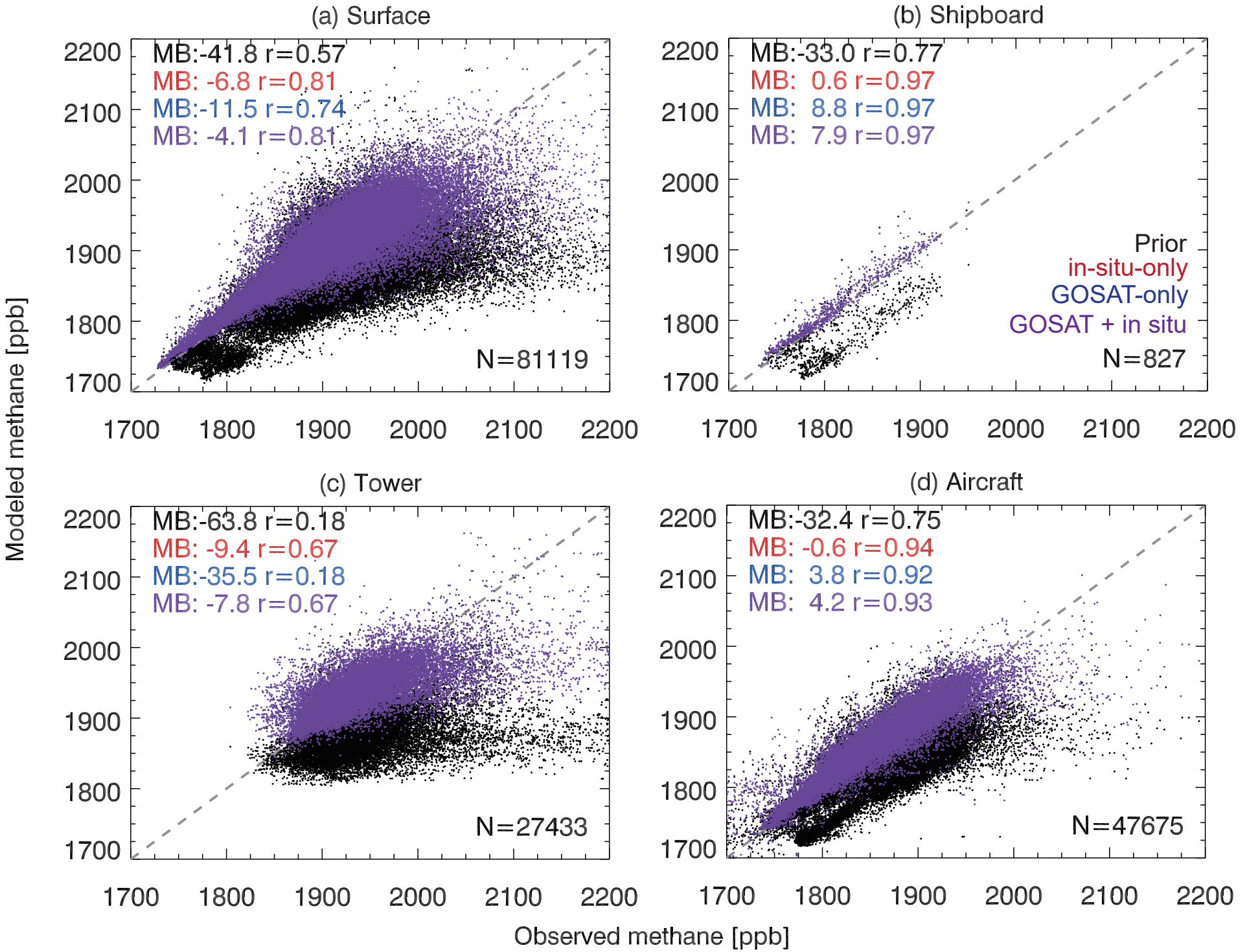

(a) Surface
MB:-41.8 r=0.57
MB: -6.8 r=0.81
MB:-11.5 r=0.74
MB: -4.1 r=0.81
N=81119
(b) Shipboard
MB:-33.0 r=0.77
MB: 0.6 r=0.97
MB: 8.8 r=0.97
MB: 7.9 r=0.97
Prior
in-situ-only
GOSAT-only
GOSAT + in situ
N=827
(c) Tower
MB:-63.8 r=0.18
MB: -9.4 r=0.67
MB:-35.5 r=0.18
MB: -7.8 r=0.67
N=27433
(d) Aircraft
MB:-32.4 r=0.75
MB: -0.6 r=0.94
MB: 3.8 r=0.92
MB: 4.2 r=0.93
N=47675
Modeled methane [ppb]
Observed methane [ppb]
1700
1800
1900
2000
2100
2200