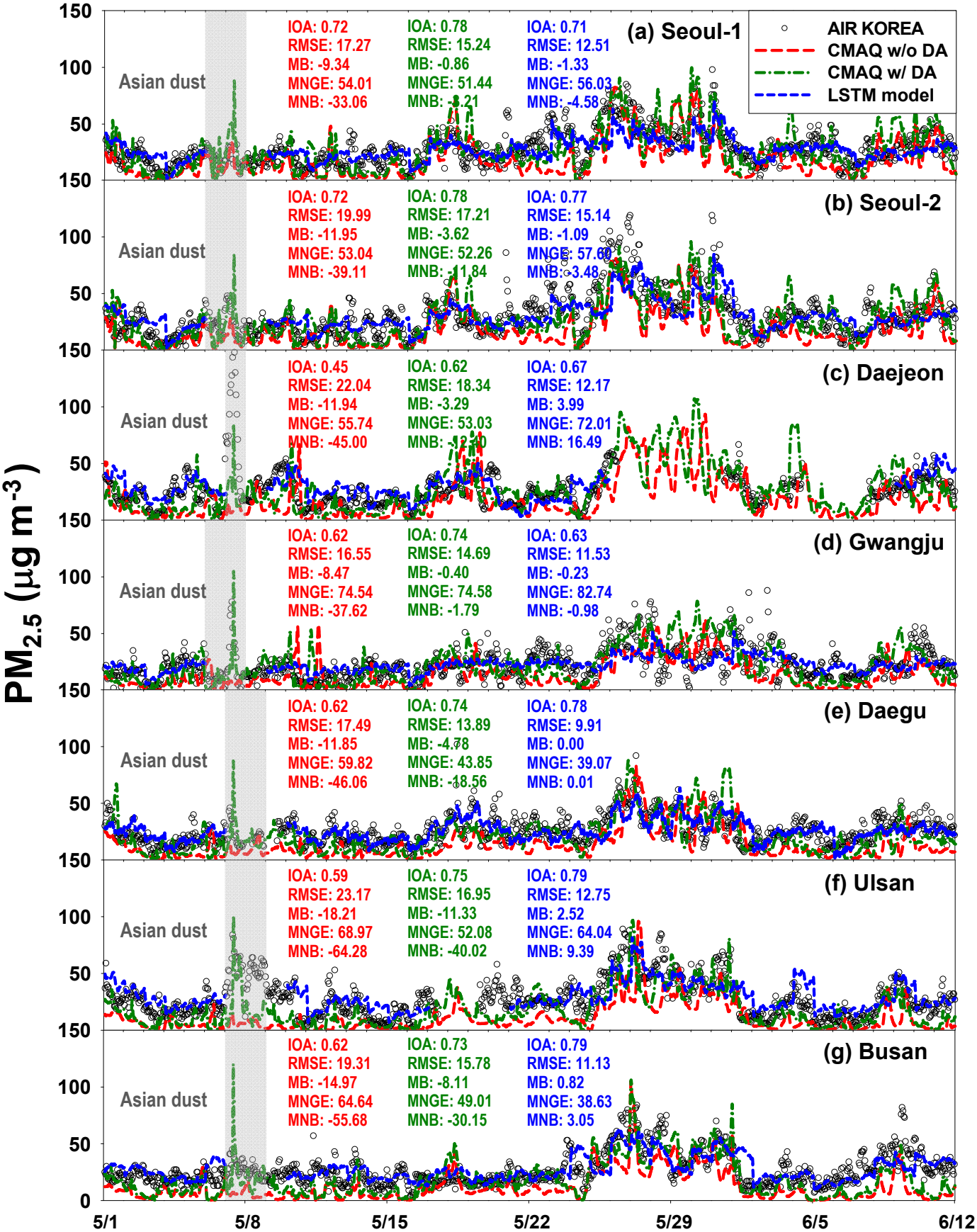
(a) Seoul-1
IOA: 0.72
RMSE: 17.27
MB: -9.34
MNGE: 54.01
MNB: -33.06
IOA: 0.78
RMSE: 15.24
MB: -0.86
MNGE: 51.44
MNB: -8.21
IOA: 0.71
RMSE: 12.51
MB: -1.33
MNGE: 56.03
MNB: -4.58
AIR KOREA
CMAQ w/o DA
CMAQ w/ DA
LSTM model
(b) Seoul-2
IOA: 0.72
RMSE: 19.99
MB: -11.95
MNGE: 53.04
MNB: -39.11
IOA: 0.78
RMSE: 17.21
MB: -3.62
MNGE: 52.26
MNB: -11.84
IOA: 0.77
RMSE: 15.14
MB: -1.09
MNGE: 57.00
MNB: -3.48
(c) Daejeon
IOA: 0.45
RMSE: 22.04
MB: -11.94
MNGE: 55.74
MNB: -45.00
IOA: 0.62
RMSE: 18.34
MB: -3.29
MNGE: 53.03
MNB: -12.10
IOA: 0.67
RMSE: 12.17
MB: 3.99
MNGE: 72.01
MNB: 16.49
(d) Gwangju
IOA: 0.62
RMSE: 16.55
MB: -8.47
MNGE: 74.54
MNB: -37.62
IOA: 0.74
RMSE: 14.69
MB: -0.40
MNGE: 74.58
MNB: -1.79
IOA: 0.63
RMSE: 11.53
MB: -0.23
MNGE: 82.74
MNB: -0.98
(e) Daegu
IOA: 0.62
RMSE: 17.49
MB: -11.85
MNGE: 59.82
MNB: -46.06
IOA: 0.74
RMSE: 13.89
MB: -4.78
MNGE: 43.85
MNB: -18.56
IOA: 0.78
RMSE: 9.91
MB: 0.00
MNGE: 39.07
MNB: 0.01
(f) Ulsan
IOA: 0.59
RMSE: 23.17
MB: -18.21
MNGE: 68.97
MNB: -64.28
IOA: 0.75
RMSE: 16.95
MB: -11.33
MNGE: 52.08
MNB: -40.02
IOA: 0.79
RMSE: 12.75
MB: 2.52
MNGE: 64.04
MNB: 9.39
(g) Busan
IOA: 0.62
RMSE: 19.31
MB: -14.97
MNGE: 64.64
MNB: -55.68
IOA: 0.73
RMSE: 15.78
MB: -8.11
MNGE: 49.01
MNB: -30.15
IOA: 0.79
RMSE: 11.13
MB: 0.82
MNGE: 38.63
MNB: 3.05
Asian dust
PM2.5 (μg m-3)
150
100
50
0
5/1
5/8
5/15
5/22
5/29
6/5
6/12