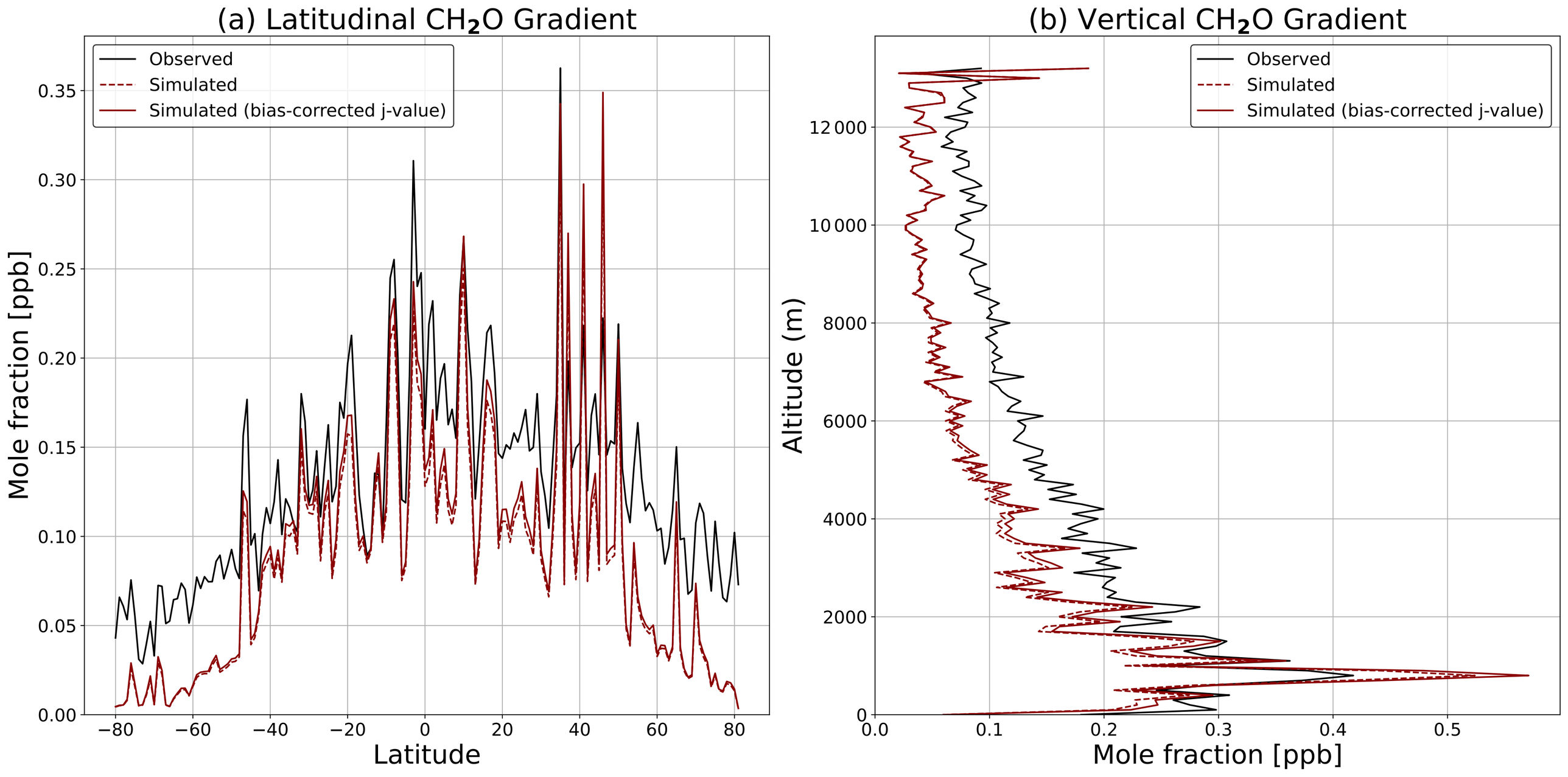

(a) Latitudinal $CH_2O$ Gradient
Observed
Simulated
Simulated (bias-corrected j-value)
Mole fraction [ppb]
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
−80
−60
−40
−20
0
20
40
60
80
Latitude
(b) Vertical $CH_2O$ Gradient
Observed
Simulated
Simulated (bias-corrected j-value)
Altitude (m)
0
2000
4000
6000
8000
10 000
12 000
0.0
0.1
0.2
0.3
0.4
0.5
Mole fraction [ppb]