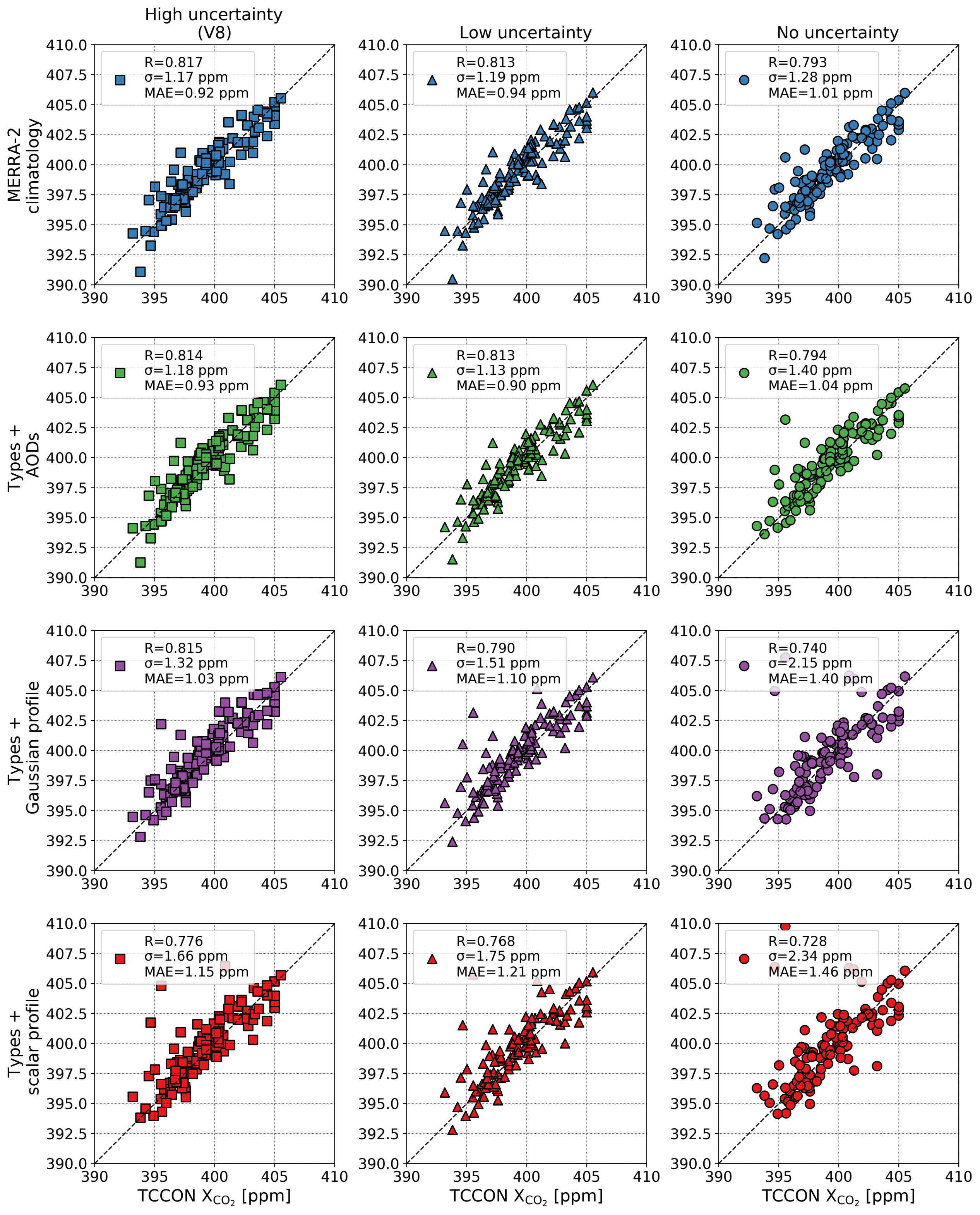
High uncertainty (V8)
Low uncertainty
No uncertainty
MERRA-2 climatology
Types + AODs
Types + Gaussian profile
Types + scalar profile
R=0.817
σ=1.17 ppm
MAE=0.92 ppm
R=0.813
σ=1.19 ppm
MAE=0.94 ppm
R=0.793
σ=1.28 ppm
MAE=1.01 ppm
R=0.814
σ=1.18 ppm
MAE=0.93 ppm
R=0.813
σ=1.13 ppm
MAE=0.90 ppm
R=0.794
σ=1.40 ppm
MAE=1.04 ppm
R=0.815
σ=1.32 ppm
MAE=1.03 ppm
R=0.790
σ=1.51 ppm
MAE=1.10 ppm
R=0.740
σ=2.15 ppm
MAE=1.40 ppm
R=0.776
σ=1.66 ppm
MAE=1.15 ppm
R=0.768
σ=1.75 ppm
MAE=1.21 ppm
R=0.728
σ=2.34 ppm
MAE=1.46 ppm
390.0
392.5
395.0
397.5
400.0
402.5
405.0
407.5
410.0
390
395
400
405
410
TCCON X_{CO_2} [ppm]