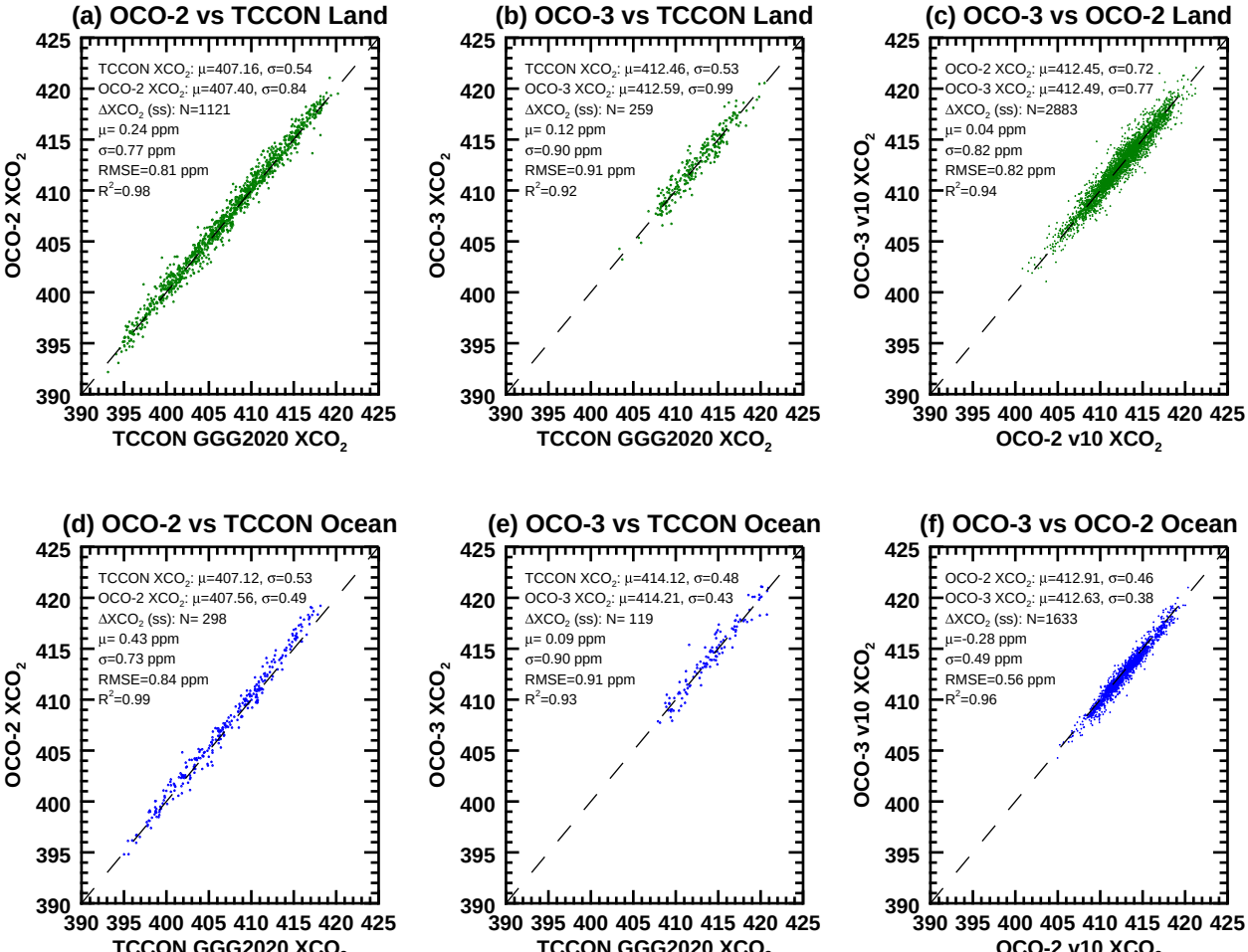
(a) OCO-2 vs TCCON Land
TCCON XCO2: μ=407.16, σ=0.54
OCO-2 XCO2: μ=407.40, σ=0.84
ΔXCO2 (ss): N=1121
μ= 0.24 ppm
σ=0.77 ppm
RMSE=0.81 ppm
R2=0.98
OCO-2 XCO2
TCCON GGG2020 XCO2
(b) OCO-3 vs TCCON Land
TCCON XCO2: μ=412.46, σ=0.53
OCO-3 XCO2: μ=412.59, σ=0.99
ΔXCO2 (ss): N= 259
μ= 0.12 ppm
σ=0.90 ppm
RMSE=0.91 ppm
R2=0.92
OCO-3 XCO2
TCCON GGG2020 XCO2
(c) OCO-3 vs OCO-2 Land
OCO-2 XCO2: μ=412.45, σ=0.72
OCO-3 XCO2: μ=412.49, σ=0.77
ΔXCO2 (ss): N=2883
μ= 0.04 ppm
σ=0.82 ppm
RMSE=0.82 ppm
R2=0.94
OCO-3 v10 XCO2
OCO-2 v10 XCO2
(d) OCO-2 vs TCCON Ocean
TCCON XCO2: μ=407.12, σ=0.53
OCO-2 XCO2: μ=407.56, σ=0.49
ΔXCO2 (ss): N= 298
μ= 0.43 ppm
σ=0.73 ppm
RMSE=0.84 ppm
R2=0.99
OCO-2 XCO2
TCCON GGG2020 XCO2
(e) OCO-3 vs TCCON Ocean
TCCON XCO2: μ=414.12, σ=0.48
OCO-3 XCO2: μ=414.21, σ=0.43
ΔXCO2 (ss): N= 119
μ= 0.09 ppm
σ=0.90 ppm
RMSE=0.91 ppm
R2=0.93
OCO-3 XCO2
TCCON GGG2020 XCO2
(f) OCO-3 vs OCO-2 Ocean
OCO-2 XCO2: μ=412.91, σ=0.46
OCO-3 XCO2: μ=412.63, σ=0.38
ΔXCO2 (ss): N=1633
μ=-0.28 ppm
σ=0.49 ppm
RMSE=0.56 ppm
R2=0.96
OCO-3 v10 XCO2
OCO-2 v10 XCO2
390 395 400 405 410 415 420 425