

RO3QET	TB-Clim	GEOS-5 FP	MERRA2	GEOS-Chem
Tropospheric column O ₃ (0–5 km)				
Correlation (<i>R</i>)	−0.09	0.23	−0.10	0.61
Bias ± 1σ (ppb)	3.7 ± 6.0	2.8 ± 5.6	−0.7 ± 5.8	1.7 ± 4.2
RMSE (ppb)	6.81	6.14	5.61	4.34
LMT column O ₃ (0–2 km)				
Correlation (<i>R</i>)	−0.68	0.03	−0.19	0.83
Bias ± 1σ (ppb)	2.9 ± 9.7	−2.9 ± 8.5	−4.9 ± 8.0	−1.3 ± 4.4
RMSE (ppb)	9.75	8.65	9.06	4.39
TROPOZ	TB-Clim	GEOS-5 FP	MERRA2	GEOS-Chem
Tropospheric column O ₃ (0–10 km)				
Correlation (<i>R</i>)	−0.09	0.26	0.38	0.82
Bias ± 1σ (ppb)	2.2 ± 9.7	3.3 ± 10.0	−4.6 ± 9.1	2.4 ± 6.0
RMSE (ppb)	9.73	10.33	9.99	6.30
LMT column O ₃ (0–2 km)				
Correlation (<i>R</i>)	−0.15	−0.09	−0.18	0.47
Bias ± 1σ (ppb)	−11.1 ± 7.5	−4.4 ± 7.3	−7.4 ± 7.4	−6.7 ± 6.2
RMSE (ppb)	13.23	8.43	10.33	8.93
JPL TMF	TB-Clim	GEOS-5 FP	MERRA2	GEOS-Chem
Tropospheric column O ₃ (0–10 km)				
Correlation (<i>R</i>)	−0.35	0.76	0.80	0.72
Bias ± 1σ (ppb)	0.3 ± 18.7	−5.0 ± 13.8	−10.6 ± 13.4	−0.5 ± 14.6
RMSE (ppb)	18.38	14.41	16.86	14.29
LMT column O ₃ (0–2 km)				
Correlation (<i>R</i>)	−0.53	−0.21	0.22	0.49
Bias ± 1σ (ppb)	3.3 ± 13.6	−2.4 ± 12.7	−4.0 ± 11.7	0.9 ± 10.4
RMSE (ppb)	13.72	12.68	12.14	10.24