

RO3QET	TB-Clim	GEOS-5 FP	MERRA2	GEOS-Chem
Tropospheric Column O ₃ (0–5 km)				
Correlation (<i>R</i>)	0.98	0.90	0.95	0.96
Bias ± 1σ (ppb)	1.4 ± 2.3	1.3 ± 2.7	−0.2 ± 2.5	1.0 ± 2.0
RMSE (ppb)	2.66	2.91	2.43	2.17
10 ppb error exceedance	0	0	0	0
LMT Column O ₃ (0–2 km)				
Correlation (<i>R</i>)	0.52	0.65	0.73	0.94
Bias ± 1σ (ppb)	0.2 ± 6.1	−3.8 ± 5.5	−3.4 ± 5.1	−2.2 ± 2.5
RMSE (ppb)	5.88	6.44	5.97	3.26
10 ppb error exceedance	1	3	2	0
TROPOZ	TB-Clim	GEOS-5 FP	MERRA2	GEOS-Chem
Tropospheric Column O ₃ (0–10 km)				
Correlation (<i>R</i>)	0.97	0.92	0.94	0.92
Bias ± 1σ (ppb)	−0.9 ± 4.2	−0.6 ± 4.8	−2.2 ± 4.4	−0.5 ± 2.7
RMSE (ppb)	4.21	4.72	4.85	2.66
10 ppb error exceedance	1	1	2	0
LMT Column O ₃ (0–2 km)				
Correlation (<i>R</i>)	0.38	0.41	0.42	0.65
Bias ± 1σ (ppb)	−11.4 ± 6.2	−6.4 ± 6.3	−5.1 ± 5.9	−4.8 ± 4.8
RMSE (ppb)	12.95	8.85	7.67	6.71
10 ppb error exceedance	10	6	4	3
JPL TMF	TB-Clim	GEOS-5 FP	MERRA2	GEOS-Chem
Tropospheric Column O ₃ (0–10 km)				
Correlation (<i>R</i>)	0.98	0.99	0.99	0.99
Bias ± 1σ (ppb)	−0.2 ± 4.0	−0.8 ± 3.1	−1.7 ± 3.0	−0.3 ± 3.3
RMSE (ppb)	3.97	3.14	3.42	3.29
10 ppb error exceedance	1	1	1	1
LMT Column O ₃ (0–2 km)				
Correlation (<i>R</i>)	0.31	0.25	0.39	0.42
Bias ± 1σ (ppb)	3.1 ± 14.8	1.9 ± 13.7	4.8 ± 12.6	1.0 ± 12.7
RMSE (ppb)	14.87	13.57	13.27	12.54
10 ppb error exceedance	9	8	10	6