

RO3QET	TB-Clim	GEOS-5 FP	MERRA2	GEOS-Chem
Tropospheric column O <sub>3</sub> (0–5 km)				
Correlation ( $R$ )	−0.54	−0.55	−0.51	0.68
Bias $\pm 1\sigma$ (ppb)	$3.5 \pm 1.4$	$2.6 \pm 1.6$	$-1.2 \pm 1.5$	$2.1 \pm 1.1$
RMSE (ppb)	3.77	2.98	1.86	2.37
LMT column O <sub>3</sub> (0–2 km)				
Correlation ( $R$ )	0.20	0.55	−0.43	0.76
Bias $\pm 1\sigma$ (ppb)	$1.9 \pm 3.9$	$-3.3 \pm 3.6$	$-5.9 \pm 4.0$	$0.3 \pm 2.6$
RMSE (ppb)	4.20	4.73	7.04	2.45
TROPOZ	TB-Clim	GEOS-5 FP	MERRA2	GEOS-Chem
Tropospheric column O <sub>3</sub> (0–10 km)				
Correlation ( $R$ )	−0.07	−0.38	−0.56	0.78
Bias $\pm 1\sigma$ (ppb)	$2.6 \pm 2.5$	$3.3 \pm 2.6$	$-5.1 \pm 3.2$	$2.2 \pm 1.7$
RMSE (ppb)	3.57	4.17	6.00	2.74
LMT column O <sub>3</sub> (0–2 km)				
Correlation ( $R$ )	0.26	0.76	0.67	0.92
Bias $\pm 1\sigma$ (ppb)	$-12.6 \pm 6.9$	$-7.5 \pm 6.6$	$-9.6 \pm 6.9$	$-7.7 \pm 4.8$
RMSE (ppb)	14.25	9.91	11.70	9.01