

Site code	Name	Lat, long, elevation	Number of obs. (obs. rejected)	Model–data mismatch (ppm)	Innovation χ^2	Prior residuals (ppm)	Posterior residuals (ppm)
surface sites							
AMT	Argyle, Maine, USA	45°2′ N, 68°41′ W, 53 m a.s.l.	347 (9)	3	+0.51	+1.00 ± 3.48	+0.05 ± 1.52
BAO	Erie, Colorado, USA	40°3′ N, 105°0′ W, 1584 m a.s.l.	396 (17)	3	+0.44	−0.77 ± 3.90	+0.05 ± 2.33
LEF	Park Falls, Wisconsin, USA	45°57′ N, 90°16′ W, 472 m a.s.l.	409 (11)	3	+0.49	+0.88 ± 3.88	−0.09 ± 1.55
SCT	Beech Island, South Carolina, USA	33°24′ N, 81°50′ W, 115 m a.s.l.	437 (15)	3	+0.60	+1.03 ± 3.85	−0.21 ± 1.82
STR	Sutro Tower, San Francisco, California, USA	37°45′ N, 122°27′ W, 254 m a.s.l.	215 (6)	3	+0.91	+2.00 ± 3.86	+0.60 ± 2.14
WBI	West Branch, Iowa, USA	41°43′ N, 91°21′ W, 241 m a.s.l.	472 (36)	3	+0.69	+0.08 ± 4.99	−0.16 ± 1.63
WGC	Walnut Grove, California, USA	38°16′ N, 121°29′ W, 0 m a.s.l.	393 (71)	3	+0.87	+0.52 ± 7.66	−0.08 ± 3.48
WKT	Moody, Texas, USA	31°19′ N, 97°20′ W, 251 m a.s.l.	353 (10)	3	+0.50	+0.68 ± 3.53	+0.11 ± 1.63
aircraft sites							
CAR	Briggsdale, Colorado, USA	40°22′ N, 104°18′ W, 1740 m a.s.l.	139 (1)	1	+0.37	+0.06 ± 0.80	−0.02 ± 0.76
CMA	Cape May, New Jersey, USA	38°50′ N, 74°19′ W, 0 m a.s.l.	141 (3)	1	+0.92	+0.13 ± 1.12	+0.11 ± 0.97
DND	Dahlen, North Dakota, USA	47°30′ N, 99°14′ W, 472 m a.s.l.	50 (5)	1	+0.78	+0.35 ± 1.56	−0.00 ± 0.89
ESP	Estevan Point, British Columbia, Canada	49°23′ N, 126°33′ W, 7 m a.s.l.	146 (2)	1	+0.96	−0.17 ± 1.14	−0.05 ± 0.97
ETL	East Trout Lake, Saskatchewan, Canada	54°21′ N, 104°59′ W, 492 m a.s.l.	126 (23)	1	+1.20	+0.80 ± 2.01	+0.19 ± 1.02
LEF	Park Falls, Wisconsin, USA	45°57′ N, 90°16′ W, 472 m a.s.l.	37 (4)	1	+0.80	+0.53 ± 1.72	+0.15 ± 0.87
NHA	Worcester, Massachusetts, USA	42°57′ N, 70°38′ W, 0 m a.s.l.	150 (17)	1	+1.69	+0.61 ± 2.51	+0.05 ± 0.98
PFA	Poker Flat, Alaska, USA	65°4′ N, 147°17′ W, 210 m a.s.l.	95 (4)	1	+1.38	+0.15 ± 1.54	+0.11 ± 1.07
SCA	Charleston, South Carolina, United states	32°46′ N, 79°33′ W, 0 m a.s.l.	130 (0)	1	+0.51	+0.16 ± 0.72	+0.22 ± 0.63
SGP	Southern Great Plains, Oklahoma, United states	36°36′ N, 97°29′ W, 314 m a.s.l.	88 (1)	1	+0.91	+2.00 ± 3.86	+0.60 ± 2.14
TGC	Sinton, Texas, USA	27°44′ N, 96°52′ W, 0 m a.s.l.	124 (6)	1	+0.66	−0.01 ± 0.82	−0.01 ± 0.79