

Instrument (retrieval version)	Altitude [km]	N	mean difference \pm SEM [ppmv]	σ [ppmv]	mean difference \pm SEM [%]	σ [%]
ACE-FTS (v3.6)	6.4	48	-14.2 ± 5.6	38.7	-7.6 ± 4.7	32.3
	8.0	129	-2.1 ± 1.8	19.9	$+0.0 \pm 4.3$	49.2
	9.8	170	-0.2 ± 0.3	3.8	$+0.0 \pm 2.7$	35.1
	12.0	193	$+0.2 \pm 0.1$	1.0	$+4.5 \pm 1.8$	25.8
ACE-MAESTRO (v30)	6.4	45	-38.3 ± 13.2	88.9	-21.8 ± 12.8	86.1
	8.0	54	-14.5 ± 5.4	39.8	-17.25 ± 13.3	98.0
	9.8	62	-3.9 ± 1.1	8.9	-20.9 ± 79.8	79.8
	12.0	65	-1.0 ± 0.2	2.0	-19.1 ± 6.7	54.0
AIRS (v6)	3.0	59430	-115.3 ± 1.3	327.5	-6.4 ± 0.1	29.5
	6.4	123776	-10.9 ± 0.3	103.8	-2.4 ± 0.1	42.1
	8.0	194619	-11.2 ± 0.1	56.7	-3.0 ± 0.1	38.0
	9.8	349484	-3.2 ± 0.0	12.2	-4.3 ± 0.0	32.1
	12.0	385786	-0.2 ± 0.0	1.9	-1.1 ± 0.0	24.1
MIPAS (IMK v5)	6.4	72	-38.1 ± 6.5	55.1	-25.6 ± 3.6	30.7
	8.0	291	-17.4 ± 2.3	38.9	-20.6 ± 1.7	28.5
	9.8	2169	-3.9 ± 0.2	10.1	-9.8 ± 0.6	30.2
	12.0	3291	-0.3 ± 0.0	1.9	-1.2 ± 0.4	23.6
MIPAS (IMK v7)	6.4	95	-48.3 ± 6.3	61.2	-29.3 ± 2.9	28.0
	8.0	299	-18.6 ± 2.3	39.6	-21.5 ± 1.6	28.2
	9.8	2278	-4.2 ± 0.2	10.5	-10.0 ± 0.6	30.0
	12.0	3306	-0.3 ± 0.0	1.9	-1.1 ± 0.4	23.7
MLS (v4.2)	8.0	88	-13.3 ± 1.0	9.5	-31.3 ± 1.3	12.0
	9.8	25467	-5.0 ± 0.1	12.0	-12.6 ± 0.2	29.6
	12.0	25475	-0.5 ± 0.0	1.9	-4.9 ± 0.1	22.8
SCIAMACHY (IUP v3.01)	12.0	1520	-0.3 ± 0.0	1.8	-3.8 ± 0.7	26.8
SCIAMACHY (IUP v4.2)	12.0	11735	-0.3 ± 0.0	1.4	-5.2 ± 0.2	21.8
TES (v6)	3.0	3218	-35.9 ± 16.1	913.6	$+4.2 \pm 0.8$	42.6
	6.4	3218	$+86.4 \pm 5.2$	292.5	$+27.2 \pm 1.2$	67.2
	8.0	3218	$+34.3 \pm 2.0$	112.8	$+29.0 \pm 1.2$	66.4
	9.8	3218	$+6.9 \pm 0.4$	20.5	$+26.0 \pm 0.9$	53.6
	12.0	3218	$+1.5 \pm 0.0$	3.1	$+22.8 \pm 0.6$	36.3