

	316 hPa		Spring		Summer		Fall		Winter	
		AIRS+OMI/ AIRS/OMI	TES	AIRS+OMI/ AIRS/OMI	TES	AIRS+OMI/ AIRS/OMI	TES	AIRS+OMI/ AIRS/OMI	TES	
	Mean (ppb)	2.8/ -2.2/-1.0	6.1	0.7/ -4.1/-6.1	4.2	1.1/ -5.9/-2.2	-1.6	-2.5/ -9.2/-11.9	2.9	
	Mean (%)	1.3/ -4.1/-2.6	8.6	2.2/ -7.0/-9.6	6.6	2.9/ -9.6/-4.4	3.3	-7.7/ -15.8/-22.0	6.5	
	rms (ppb)	17.1/ 17.8/21.6	19.2	13.4/ 10.7/11.6	17.0	12.6/ 16.3/24.5	21.7	10.0/ 10.7/12.2	12.4	
	rms (%)	25.6/ 24.0/26.7	23.7	20.4/ 16.5/17.4	23.8	19.0/ 21.7/29.5	26.9	20.8/ 18.8/19.5	20.5	
	510 hPa		Spring		Summer		Fall		Winter	
		AIRS+OMI/ AIRS/OMI	TES	AIRS+OMI/ AIRS/OMI	TES	AIRS+OMI/ AIRS/OMI	TES	AIRS+OMI/ AIRS/OMI	TES	
Differences (satellite– WOUDC sonde with satellite observation operator applied)	Mean (ppb)	1.3/ 1.1/3.8	3.6	-0.8/ 1.2/-0.8	3.5	0.4/ -0.4/0.4	0.2	1.8/ -1.7/-9.2	1.4	
	Mean (%)	3.8/ 2.3/5.8	7.0	1.6/ 2.0/-1.7	7.3	2.5/ -1.0/0.3	3.5	5.9/ -2.8/-18.9	3.2	
	rms (ppb)	7.6/ 7.6/18.7	9.2	10.9/ 7.8/12.2	10.6	8.6/ 9.4/16.1	14.5	7.5/ 7.8/9.7	8.0	
	rms (%)	17.2/ 14.4/32.0	17.4	20.4/ 14.6/22.3	17.9	16.7/ 17.1/28.6	21.8	19.1/ 15.7/18.5	17.7	
	750 hPa		Spring		Summer		Fall		Winter	
		AIRS+OMI/ AIRS/OMI	TES	AIRS+OMI/ AIRS/OMI	TES	AIRS+OMI/ AIRS/OMI	TES	AIRS+OMI/ AIRS/OMI	TES	
	Mean (ppb)	2.4/ 2.1/4.5	1.7	-2.2/ 2.0/0.6	2.6	-1.2/ 0.3/0.1	0.3	4.6/ 0.5/-6.1	0.3	
	Mean (%)	8.0/ 5.0/8.1	3.4	-2.0/ 4.3/1.1	6.6	-1.3/ 0.9/0.2	1.9	14.4/ 1.7/-14.0	0.9	
	rms (ppb)	7.6/ 5.3/14.7	6.9	8.6/ 7.3/8.6	12.5	6.3/ 6.0/10.1	11.2	8.5/ 6.1/7.0	7.8	
	rms (%)	21.1/ 11.6/28.3	16.2	18.8/ 16.4/18.9	25.3	13.2/ 12.5/21.0	23.9	24.8/ 14.9/14.8	20.0	
Number of WOUDC sonde sites	20	25	27	30	16	12	16	19		
Number of satellite/ sonde coincidences	131	197	134	171	72	60	87	128		