

S-Table 1. Mean climatological ozone value (in ppmv) for different latitude bands, seasons, and pressure levels, for the three data sets and the Fortuin & Kelder (FK) climatology.

	FK	RW07	SPARC	BDBP
90°S – 60°S				
DJF, 100 hPa	0.91	1.10	0.92	0.93
MAM, 100 hPa	0.97	1.24	1.00	1.06
JJA, 100 hPa	1.04	1.38	1.04	1.04
SON, 100 hPa	0.69	0.80	0.63	0.56
DJF, 70 hPa	1.87	2.04	1.88	1.85
MAM, 70 hPa	1.90	2.22	1.94	1.94
JJA, 70 hPa	1.91	2.41	1.91	1.89
SON, 70 hPa	1.30	1.43	1.17	1.02
DJF, 50 hPa	2.91	2.69	2.91	2.78
MAM, 50 hPa	2.69	2.73	2.69	2.70
JJA, 50 hPa	2.73	3.00	2.70	2.70
SON, 50 hPa	2.19	2.05	1.97	1.70
DJF, 30 hPa	4.23	3.90	4.12	3.70
MAM, 30 hPa	3.58	3.65	3.44	3.39
JJA, 30 hPa	3.61	4.06	3.47	3.30
SON, 30 hPa	3.90	3.68	3.66	3.20
DJF, 10 hPa	5.78	4.89	5.54	5.08
MAM, 10 hPa	4.80	4.63	4.52	4.05
JJA, 10 hPa	4.97	5.27	4.82	4.26

SON, 10 hPa	6.12	5.47	5.93	5.34
DJF, 5 hPa	6.12	6.23	5.96	5.66
MAM, 5 hPa	5.65	6.46	5.36	4.57
JJA, 5 hPa	5.72	6.85	5.59	5.11
SON, 5 hPa	6.44	6.67	6.26	5.66

30°S – 30°N

DJF, 100 hPa	0.17	0.32*	0.14	0.12
MAM, 100 hPa	0.19	0.32*	0.17	0.13
JJA, 100 hPa	0.22	0.33*	0.21	0.16
SON, 100 hPa	0.19	0.31*	0.18	0.15
DJF, 70 hPa	0.56	0.76	0.54	0.54
MAM, 70 hPa	0.60	0.79	0.58	0.55
JJA, 70 hPa	0.67	0.87	0.65	0.69
SON, 70 hPa	0.68	0.89	0.66	0.69
DJF, 50 hPa	1.58	1.65	1.55	1.57
MAM, 50 hPa	1.60	1.67	1.57	1.63
JJA, 50 hPa	1.75	1.79	1.72	1.77
SON, 50 hPa	1.70	1.76	1.67	1.73
DJF, 30 hPa	4.10	4.06	4.08	4.14
MAM, 30 hPa	4.27	4.19	4.26	4.32
JJA, 30 hPa	4.46	4.38	4.45	4.49
SON, 30 hPa	4.33	4.28	4.31	4.33
DJF, 10 hPa	8.96	8.37	9.03	9.15
MAM, 10 hPa	9.19	8.53	9.25	9.48

JJA, 10 hPa	8.79	8.31	8.84	9.03
SON, 10 hPa	9.06	8.46	9.12	9.28
DJF, 5 hPa	8.38	9.78	8.42	8.58
MAM, 5 hPa	8.28	9.68	8.29	8.29
JJA, 5 hPa	8.23	9.69	8.25	8.27
SON, 5 hPa	8.34	9.72	8.35	8.33

60°N – 90°N

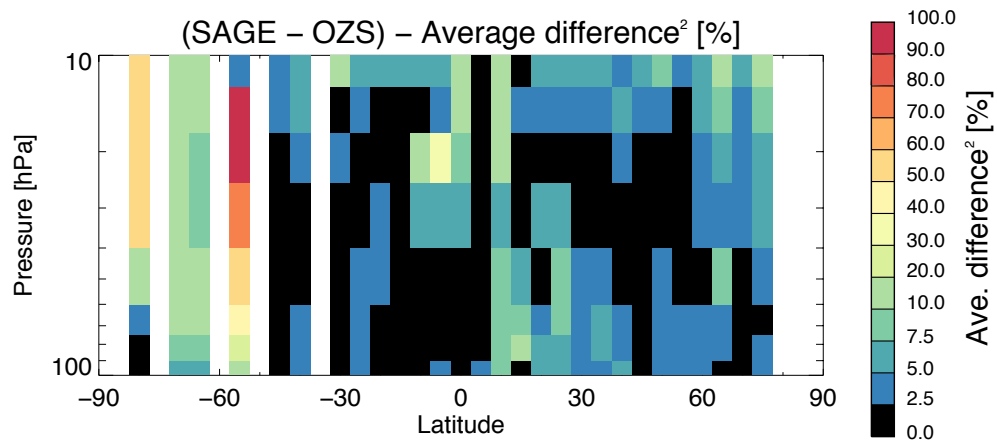
DJF, 100 hPa	1.45	1.74	1.48	1.42
MAM, 100 hPa	1.46	1.72	1.50	1.49
JJA, 100 hPa	1.02	1.20	1.05	1.06
SON, 100 hPa	1.04	1.25	1.06	1.07
DJF, 70 hPa	2.34	2.73	2.36	2.29
MAM, 70 hPa	2.45	2.77	2.49	2.45
JJA, 70 hPa	1.85	2.03	1.89	1.90
SON, 70 hPa	1.84	2.10	1.86	1.89
DJF, 50 hPa	3.22	3.30	3.18	3.15
MAM, 50 hPa	3.47	3.39	3.48	3.37
JJA, 50 hPa	2.67	2.51	2.68	2.66
SON, 50 hPa	2.57	2.57	2.56	2.61
DJF, 30 hPa	4.41	4.64	4.31	3.99
MAM, 30 hPa	4.59	4.55	4.54	4.32
JJA, 30 hPa	3.55	3.39	3.48	3.44
SON, 30 hPa	3.58	3.58	3.44	3.41
DJF, 10 hPa	5.59	5.63	5.50	4.63

MAM, 10 hPa	6.04	5.61	5.87	5.64
JJA, 10 hPa	5.68	4.75	5.40	5.36
SON, 10 hPa	4.74	4.57	4.47	4.19
DJF, 5 hPa	5.89	7.02	5.81	5.01
MAM, 5 hPa	6.60	7.28	6.42	6.29
JJA, 5 hPa	6.11	6.27	5.94	6.17
SON, 5 hPa	5.48	6.23	5.17	4.66

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\* not all grid points of the given latitude band have data values at this level





S-Figure 1. Average squared difference between all available monthly mean SAGE II values and ozone sonde values for given latitude bands and pressure levels, given in percent.