

Supplementary material to Ellingsen et al., Global Ozone and Air Quality: a Multi-Model Assessment of Risks to Human Health and Crops.

The table below shows the geographical locations, altitudes, techniques, and the source of the measurements used in Figure 2 of the paper.

Carmichael et al. 2003 indicate an uncertainty for the passive sampler of 25% due to the sampling method, and an additional <5% analytical uncertainty.

The random error on UV absorption measurements is assumed to be within 5% (calibration errors etc). Further, there is an additional interference by humidity which is of the order 2.5 ppbv in ozone (negative artifact during humid periods, positive artifact during dry periods). For a more detailed discussion of uncertainties the reader is referred to the publications given in Table 7 and its footnotes.

Region / Name	Longitude	Latitude	Altitude	Technique <sup>1)</sup>	Source <sup>2)</sup>
<b>SW US</b>					
CAN407	-109.8	38.46	1814	UV	CASTNET
CHA467	-109.4	32.01	1570	UV	CASTNET
DEV412	-116.8	36.51	125	UV	CASTNET
GRB411	-114.2	39.01	2060	UV	CASTNET
GRC474	-112.2	36.06	2073	UV	CASTNET
GTH161	-107	38.96	2926	UV	CASTNET
JOT403	-116.4	34.07	1244	UV	CASTNET
MEV405	-108.5	37.2	2165	UV	CASTNET
PIN414	-121.2	36.49	335	UV	CASTNET
SEK402	-118.8	36.43	1225	UV	CASTNET
YOS404	-119.7	37.71	1605	UV	CASTNET
<b>SE US</b>					
BFT142	-76.62	34.88	2	UV	CASTNET
CDZ171	-87.85	36.78	189	UV	CASTNET
CND125	-79.84	35.26	198	UV	CASTNET
CVL151	-89.8	34	134	UV	CASTNET
COW137	-83.43	35.06	686	UV	CASTNET
ESP127	-85.73	36.04	302	UV	CASTNET
GAS153	-84.41	33.18	270	UV	CASTNET
GRS420	-83.94	35.63	793	UV	CASTNET
PNF126	-82.05	36.11	1219	UV	CASTNET
SND152	-85.97	34.29	352	UV	CASTNET
SPD111	-83.83	36.47	361	UV	CASTNET
SUM156	-84.99	30.11	14	UV	CASTNET
<b>US Great Lakes</b>					
ANA115	-83.9	42.42	267	UV	CASTNET
BVL130	-88.37	40.05	212	UV	CASTNET
CTH110	-76.65	42.4	501	UV	CASTNET

HOX148	-85.74	44.18	305	UV	CASTNET
KEF112	-78.77	41.6	622	UV	CASTNET
LYK123	-83	40.92	303	UV	CASTNET
MKG113	-80.15	41.43	384	UV	CASTNET
PRK134	-90.6	45.21	472	UV	CASTNET
PSU106	-77.93	40.72	378	UV	CASTNET
SAL133	-85.66	40.82	250	UV	CASTNET
STK138	-90	42.29	274	UV	CASTNET
UVL124	-83.36	43.61	201	UV	CASTNET
VOY413	-92.83	48.41	427	UV	CASTNET
WEL149	-85.82	44.22	295	UV	CASTNET
<b>C. Mediterranean</b>					
ES0010R	3	42	23	UV	Airbase
ES0012R	-1	39	885	UV	Airbase
ES1122A	1	41	125	UV	Airbase
ES1216A	1	41	243	UV	Airbase
ES1428A	0	39	44	UV	Airbase
ES1435A	0	40	1125	UV	Airbase
ES1437A	0	40	1200	UV	Airbase
ES1441A	0	40	1150	UV	Airbase
FR0785A	7	43	320	UV	Airbase
IT1179A	11	44	0	UV	Airbase
ES10	3	42	23	UV	EMEP
IT01	12	42	48	UV	EMEP
IT04	8	45	209	UV	EMEP
SI08	14	45	520	UV	EMEP
Kovk	15.1	46.12	600	UV	GAW/WMO/ WDCGG
Giordana	14.2	36.1	160	UV	GAW/WMO/ WDCGG
Finokalia	25.67	35.1	150	UV	GAW/WMO/ WDCGG
<b>C Europe</b>					
AT0044A	15	48	220	UV	Airbase
AT0076A	16	48	165	UV	Airbase
AT0080A	14	48	242	UV	Airbase
AT0086A	14	48	465	UV	Airbase
AT0095A	16	48	250	UV	Airbase
AT0096A	15	48	581	UV	Airbase
AT0101A	15	48	560	UV	Airbase
AT0102A	16	48	190	UV	Airbase
AT0103A	16	48	210	UV	Airbase
AT0105A	15	48	556	UV	Airbase
AT0111A	15	48	305	UV	Airbase
AT0149A	15	48	315	UV	Airbase
AT0186A	13	48	525	UV	Airbase
AT0187A	17	48	138	UV	Airbase

AT0188A	15	48	216	UV	Airbase
CZ0003R	15	49	535	UV	Airbase
CZ0030A	15	50	771	UV	Airbase
CZ0041A	14	49	514	UV	Airbase
CZ0045A	15	49	569	UV	Airbase
CZ0051A	17	50	625	UV	Airbase
DE0001R	8	54	12	UV	Airbase
DE0002R	10	52	74	UV	Airbase
DE0007R	13	53	65	UV	Airbase
DE0009R	12	54	1	UV	Airbase
DE0012R	8	52	52	UV	Airbase
DE0035R	14	50	490	UV	Airbase
DE0039R	9	54	15	UV	Airbase
DE0422A	8	49	89	UV	Airbase
DE0448A	13	51	246	UV	Airbase
DE0502A	8	49	110	UV	Airbase
DE0510A	11	48	370	UV	Airbase
DE0514A	12	48	415	UV	Airbase
DE0589A	9	53	8	UV	Airbase
DE0649A	9	50	378	UV	Airbase
DE0651A	9	51	600	UV	Airbase
DE0679A	12	49	750	UV	Airbase
DE0680A	8	51	430	UV	Airbase
DE0685A	7	49	455	UV	Airbase
DE0686A	7	49	650	UV	Airbase
DE0688A	7	50	480	UV	Airbase
DE0699A	9	48	500	UV	Airbase
DE0719A	9	50	490	UV	Airbase
DE0732A	9	51	500	UV	Airbase
DE0735A	8	50	635	UV	Airbase
DE0737A	7	49	606	UV	Airbase
DE0738A	11	50	540	UV	Airbase
DE0739A	8	49	475	UV	Airbase
DE0754A	13	52	50	UV	Airbase
DE0789A	7	52	43	UV	Airbase
DE0790A	12	50	595	UV	Airbase
DE0844A	10	54	45	UV	Airbase
DE0874A	8	51	110	UV	Airbase
DE0878A	13	52	45	UV	Airbase
DE0907A	9	50	195	UV	Airbase
DE0958A	10	51	356	UV	Airbase
DE0960A	14	53	1	UV	Airbase
DE0988A	9	52	50	UV	Airbase
DE0989A	7	53	40	UV	Airbase
DE0999A	10	50	450	UV	Airbase
DE1004A	7	51	310	UV	Airbase
DE1023A	12	53	17	UV	Airbase
DE1085A	12	51	80	UV	Airbase

DE1089A	13	50	527	UV	Airbase
DE1122A	7	50	540	UV	Airbase
DE1128A	11	52	20	UV	Airbase
DE1134A	14	53	21	UV	Airbase
DE1135A	13	52	35	UV	Airbase
DE1138A	9	53	0	UV	Airbase
DE1140A	9	48	799	UV	Airbase
DE1172A	8	50	173	UV	Airbase
DE1180A	10	51	420	UV	Airbase
DE1197A	11	52	100	UV	Airbase
DE1226A	13	52	50	UV	Airbase
DE1242A	8	49	520	UV	Airbase
DE1253A	8	51	360	UV	Airbase
DE1292A	11	53	25	UV	Airbase
DE1294A	7	53	1	UV	Airbase
DE1295A	8	53	3	UV	Airbase
DE1305A	7	52	49	UV	Airbase
DE1315A	9	54	34	UV	Airbase
DE1358A	13	50	787	UV	Airbase
DE1360A	13	51	313	UV	Airbase
DE1385A	11	50	360	UV	Airbase
DE1387A	14	52	73	UV	Airbase
DE1388A	13	52	70	UV	Airbase
FR0008R	7	48	770	UV	Airbase
FR0282A	7	48	330	UV	Airbase
PL0004R	17	54	2	UV	Airbase
PL0026A	15	51	244	UV	Airbase
PL0028A	15	50	645	UV	Airbase
PL0030A	14	52	30	UV	Airbase
CZ01	16	49	737	UV	EMEP
CZ03	15	49	534	UV	EMEP
DE01	8	54	12	UV	EMEP
DE02	10	52	74	UV	EMEP
DE07	13	53	62	UV	EMEP
DE09	12	54	1	UV	EMEP
DE12	8	52	52	UV	EMEP
DE17	10	49	481	UV	EMEP
FR08	7	48	775	UV	EMEP
PL04	17	54	2	UV	EMEP
<b>Middle East</b>					
Camkoru, Turkey	40.5	32.5	1350	PS	C2003
<b>N-India</b>					
Berhampur (coast)	84.48	20.36	316	PS	C2003
Bhubaneswar (inland)	85.52	20.15	24	PS	C2003
Delhi (inland)	77	29	213	PS	C2003
Agra (inland)	78	27	175	PS	C2003

Ahmedabad (inland)	72.6	23	60	UV	L2000
<b>N. China</b>					
Ryori (Japan)	141.83	39.05	5	UV	GAW/WMO
Tsukuba (Japan)	140.10	36.09	25	UV	GAW/WMO
Tai Shan (China)	117	36	1524	UV	GAW/WMO
Hua Shan (China)	110	34	2065	UV	GAW/WMO
Huang Shan (China)	118	30	1841	UV	GAW/WMO
Happo	137.8	36.68	1840	UV	WM2004
Shang Dian Zhi	117.12	40.65	260	PS	C2003
Oki (Jp)	133.18	36.28	90	PS	C2003
<b>S.E. Asia</b>					
Linan (Ch)	119.75	30.3	132	PS	C2003
Cape d'Aequier (Ch)	115.25	20.2	1	PS	C2003
Shui-Li (Tw)	120.85	23.82	330	PS	C2003

1) PS=passive sampler, UV=Ultra Violet

2) C2003=Carmichael et al., 2003; L2000=Lal et al., 2000; WM2004=Wang and Mauzerall, 2004.