



Supplement of

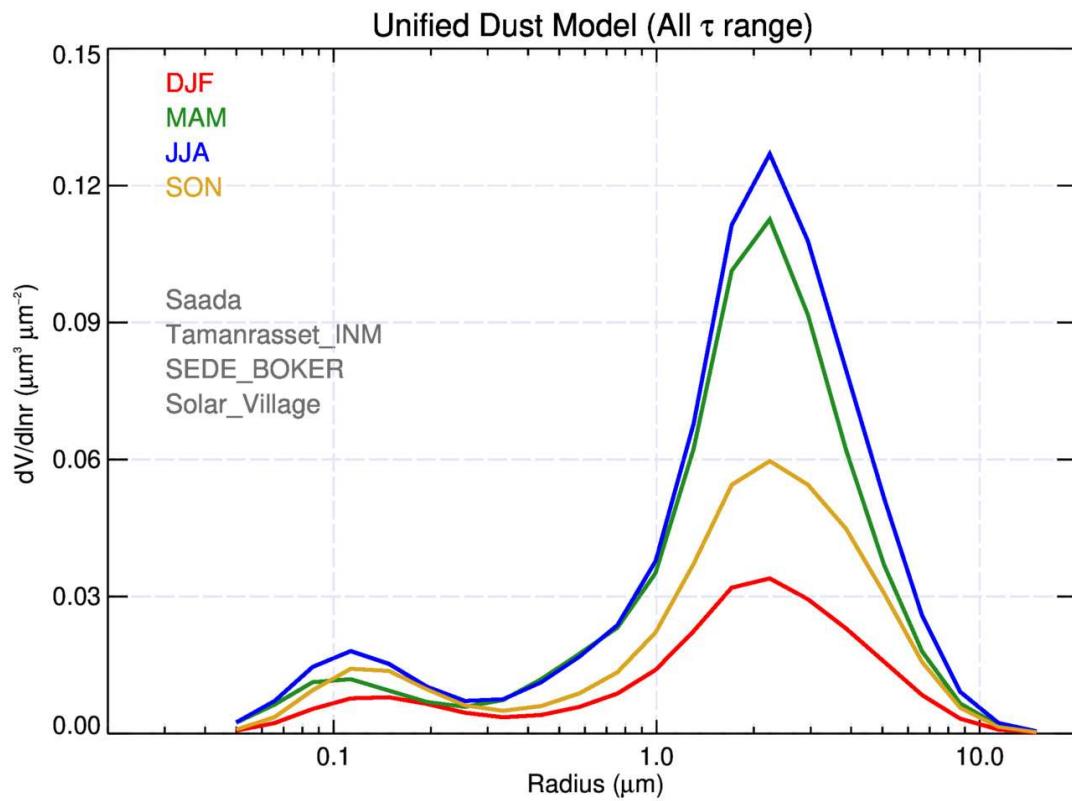
Retrieval of UV-visible aerosol absorption using AERONET and OMI-MODIS synergy: spatial and temporal variability across major aerosol environments

Vinay Kayetha et al.

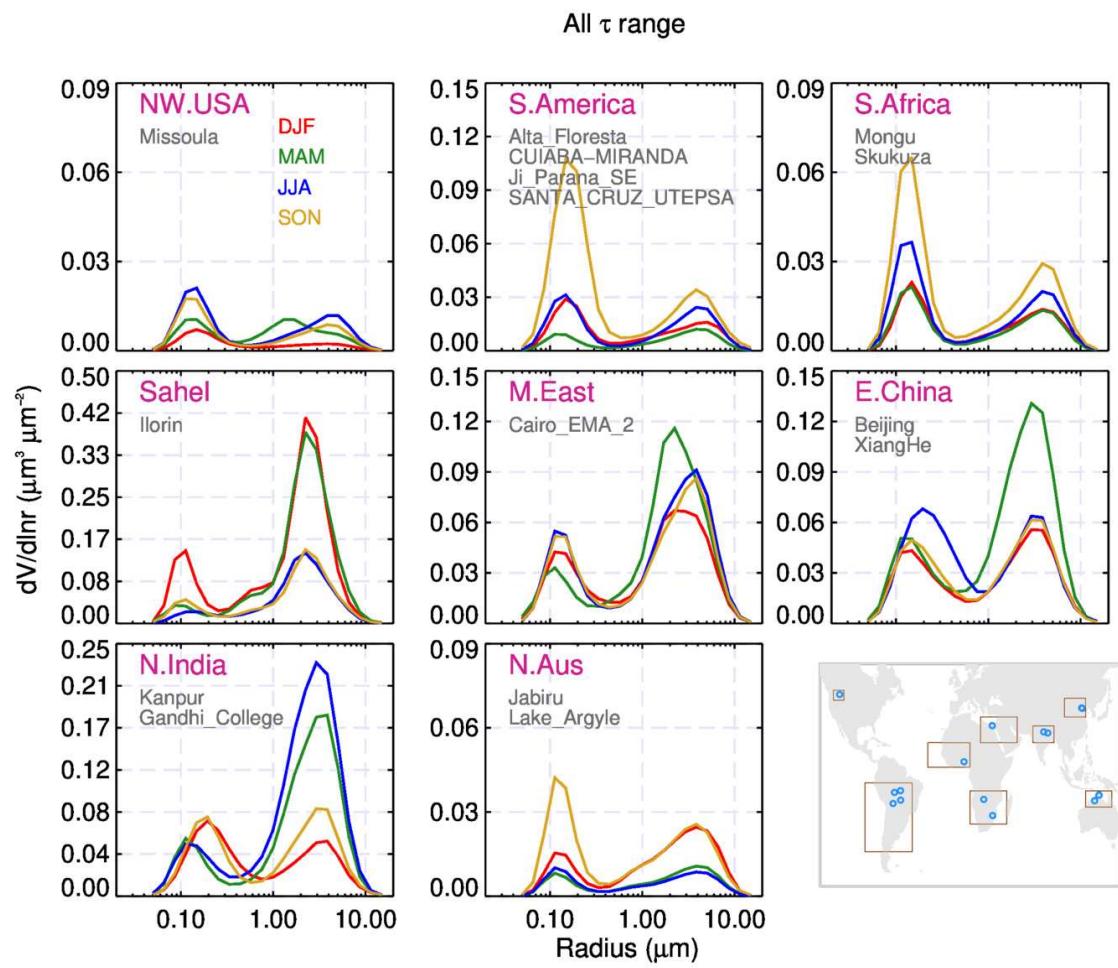
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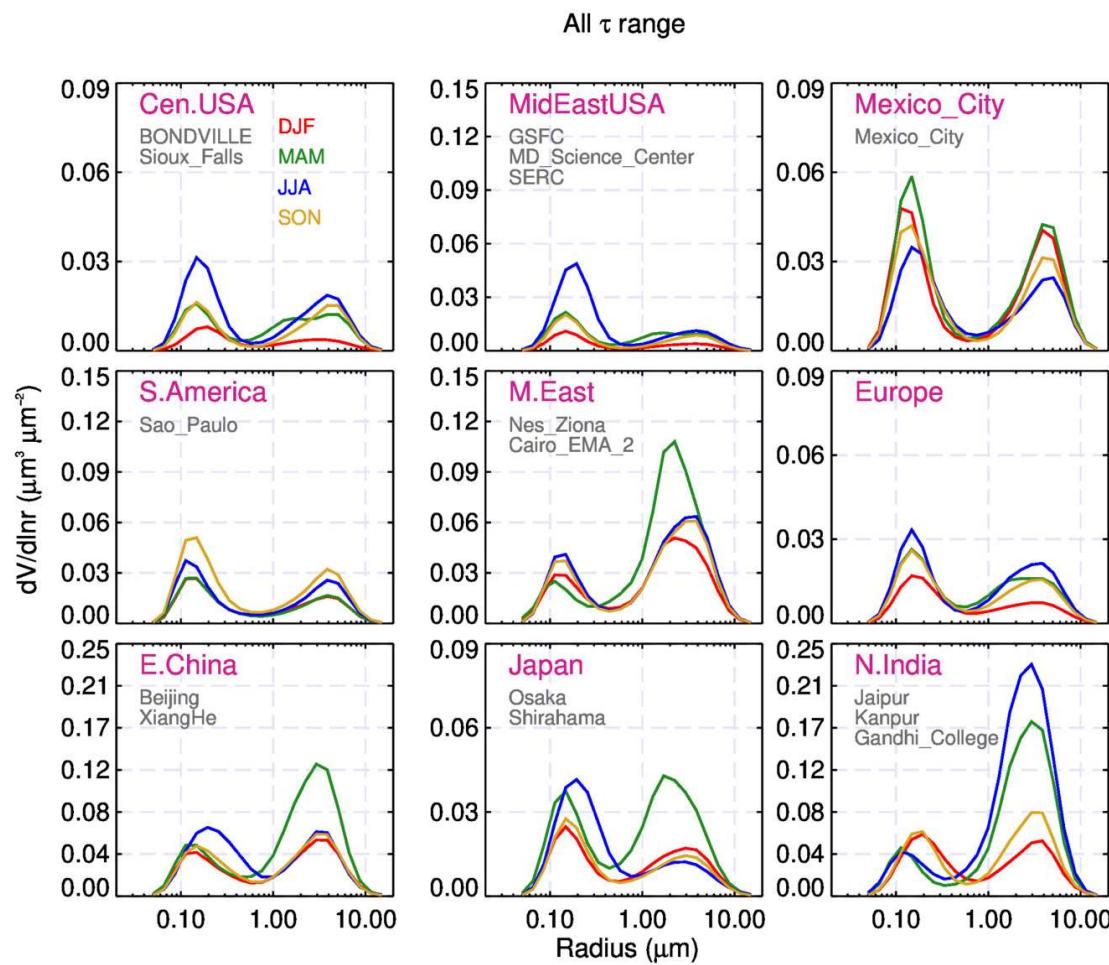
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5 **Figure S1: Seasonal climatology of particle size distributions derived from AERONET**
6 **Dust dominated sites for all τ observations.**



10 **Figure S2: Seasonal climatology of particle size distributions derived from AERONET
11 Smoke dominated sites for all τ observations.**



15 **Figure S3: Seasonal climatology of particle size distributions derived from AERONET
16 Urban aerosols dominated sites for all τ observations.**

Table S1: Retrieved seasonal average SSA at 340, 354, 388, 466 and 646 nm and AAE at UV-Visible wavelength pairs for Carbonaceous, Dust, and Urban aerosols with observations $\tau_{440} > 0.4$ over individual AERONET sites from 2005 – 2016. Abbreviations used: AType is the aerosol type, NDays is the number of independent days, NObs is the number of observations.

	A.Type	Season	N.days	N. Obs		τ_{440}	$\alpha_{440-870}$	Average SSA					Average Abs.AE		
				OMI	MODIS			340 nm	354 nm	388 nm	466 nm	646 nm	354_388	466_466	340_646
NW. USA															
Missoula	Carbon.	JJA	5	9	51	1.2302	1.78	0.887	0.903	0.913	0.936	0.904	3.976	1.037	1.705
	Urban	JJA	10	26	83	0.6967	1.91	0.872	0.876	0.871	0.872	0.847	1.648	1.322	1.667
	Urban	SON	8	21	60	0.5554	1.96	0.845	0.842	0.826	0.865	0.829	0.967	1.470	1.747
Rimrock	Urban	JJA	6	38	25	0.5425	1.96	0.880	0.893	0.895	0.894	0.866	2.470	0.722	1.894
Central USA															
Sioux_Falls	Urban	JJA	8	40	96	0.4628	1.51	0.929	0.946	0.953	0.942	0.879	5.892	-0.821	0.898
BONDVILLE	Urban	JJA	12	51	127	0.4881	1.84	0.942	0.943	0.944	0.935	0.890	3.494	-0.153	1.116
MidEastern USA															
GSFC	Urban	MAM	8	35	67	0.4907	1.51	0.930	0.947	0.951	0.943	0.941	3.034	1.717	1.598
	Urban	JJA	9	46	23	0.4754	1.77	0.956	0.961	0.971	0.950	0.922	6.961	0.242	1.493
MD_Science_Centr	Urban	MAM	8	52	62	0.4909	1.77	0.945	0.951	0.956	0.954	0.896	3.049	-1.196	0.802
	Urban	JJA	8	44	64	0.5245	1.89	0.931	0.937	0.947	0.919	0.868	6.328	0.025	1.560
Wallopss	Urban	JJA	8	19	17	0.6376	1.78	0.897	0.898	0.895	0.892	0.848	2.793	1.084	0.894
Central America															
Mexico_City	Urban	DJF	53	223	255	0.5651	1.7	0.887	0.886	0.888	0.858	0.845	2.935	1.967	1.204
	Urban	MAM	30	60	76	0.6873	1.68	0.904	0.910	0.916	0.865	0.832	3.821	1.182	0.948
	Urban	SON	6	13	13	0.4738	1.67	0.882	0.873	0.863	0.852	0.805	0.843	0.437	0.850
South America															
Alta_Floresta	Carbon.	JJA	10	66	94	0.8591	1.9	0.901	0.905	0.920	0.932	0.910	4.590	1.287	1.766
	Carbon.	SON	10	50	155	1.0049	1.81	0.925	0.929	0.943	0.941	0.917	4.472	1.772	1.722
	Urban	SON	7	15	66	0.623	1.69	0.919	0.934	0.939	0.932	0.878	2.041	0.650	0.811
CUIABA-MIRANDA	Carbon.	JJA	6	40	61	0.6997	1.75	0.883	0.889	0.912	0.900	0.870	4.959	1.118	2.053
	Carbon.	SON	23	164	283	0.9377	1.76	0.900	0.907	0.919	0.914	0.880	3.711	0.831	1.359
	Urban	JJA	7	36	103	0.5579	1.77	0.876	0.877	0.880	0.866	0.823	2.141	0.962	1.321
	Urban	SON	27	213	446	0.5347	1.76	0.906	0.917	0.923	0.916	0.875	3.809	0.875	1.346
Rio_Branco	Urban	JJA	8	47	127	0.5313	1.83	0.898	0.903	0.909	0.930	0.887	2.615	0.735	1.628

	Urban	SON	8	57	117	0.5381	1.72	0.915	0.929	0.937	0.934	0.883	4.427	0.354	1.154
Ji_Parana_SE	Carbon.	JJA	7	23	42	0.8592	1.83	0.920	0.922	0.930	0.927	0.914	3.177	1.790	1.687
	Urban	JJA	5	39	25	0.4874	1.76	0.893	0.902	0.908	0.923	0.893	2.494	1.358	1.980
SANTA_CRUZ_UTE	Carbon.	SON	9	23	79	0.7882	1.72	0.899	0.908	0.929	0.935	0.907	5.756	0.781	1.650
	Urban	SON	14	78	225	0.5636	1.67	0.889	0.902	0.901	0.912	0.879	1.770	0.860	1.749
Sao_Paulo	Urban	JJA	14	66	158	0.5026	1.45	0.876	0.871	0.856	0.853	0.837	0.413	1.400	0.967
	Urban	SON	10	75	86	0.5175	1.54	0.898	0.908	0.916	0.910	0.880	3.242	0.900	1.496
Europe															
Avignon	Mixt.	JJA	5	29	64	0.5116	0.56	0.909	0.925	0.938	0.920	0.853	3.305	-1.722	-0.295
	Urban	JJA	7	41	53	0.5099	1.6	0.927	0.938	0.945	0.929	0.861	3.150	0.118	0.538
Barcelona	Mixt.	JJA	6	14	30	0.5231	0.41	0.899	0.906	0.920	0.938	0.868	2.442	-2.070	0.271
Burjassot	Mixt.	JJA	14	73	71	0.5031	0.67	0.900	0.906	0.919	0.933	0.881	3.480	-0.897	0.640
Carpentras	Mixt.	JJA	6	38	128	0.4583	0.56	0.894	0.909	0.923	0.929	0.849	2.303	-2.258	-0.041
	Urban	MAM	5	12	68	0.4639	1.41	0.912	0.932	0.925	0.882	0.847	0.294	1.014	0.668
	Urban	JJA	8	41	106	0.4641	1.7	0.929	0.941	0.947	0.902	0.822	4.642	0.318	0.642
FORTH_CRETE	Mixt.	MAM	7	31	33	0.5814	0.35	0.896	0.911	0.932	0.942	0.940	4.240	-0.441	1.323
IMS-METU-ERDEM	Mixt.	MAM	10	49	37	0.636	0.37	0.893	0.909	0.920	0.921	0.885	2.510	-0.518	0.206
	Mixt.	JJA	11	44	28	0.558	0.89	0.889	0.897	0.902	0.894	0.888	1.924	1.298	0.875
	Urban	JJA	18	39	32	0.5094	1.45	0.920	0.930	0.937	0.870	0.874	3.723	2.253	0.847
Ispra	Urban	JJA	7	16	32	0.5968	1.59	0.947	0.958	0.961	0.930	0.898	4.259	0.620	0.407
	Urban	SON	6	8	45	0.5364	1.5	0.885	0.904	0.889	0.934	0.869	0.430	-1.554	1.094
Lecce_University	Mixt.	JJA	25	141	104	0.5095	0.52	0.902	0.912	0.931	0.947	0.914	4.127	-1.275	0.873
	Urban	JJA	16	75	81	0.4769	1.75	0.928	0.934	0.938	0.941	0.902	2.819	0.540	1.245
Lille	Urban	MAM	5	42	127	0.4655	1.63	0.916	0.935	0.945	0.936	0.934	4.607	2.322	1.963
	Urban	JJA	6	31	99	0.4739	1.6	0.922	0.938	0.945	0.937	0.895	4.022	-0.166	1.283
Minsk	Urban	MAM	5	20	118	0.4652	1.64	0.926	0.949	0.957	0.923	0.907	4.330	1.177	1.453
Modena	Mixt.	MAM	7	29	108	0.5461	0.92	0.907	0.921	0.932	0.921	0.868	3.616	-0.797	0.586
	Mixt.	JJA	14	90	331	0.5164	0.96	0.906	0.910	0.917	0.945	0.884	2.641	-1.540	0.679
	Urban	MAM	24	156	614	0.4805	1.54	0.918	0.925	0.927	0.932	0.892	2.243	0.377	0.956
	Urban	JJA	36	197	738	0.5306	1.61	0.934	0.941	0.945	0.924	0.869	3.880	0.053	0.543
	Urban	SON	10	32	245	0.4795	1.53	0.900	0.924	0.925	0.933	0.906	3.161	0.361	1.199
Moldova	Mixt.	MAM	6	46	186	0.4975	0.66	0.880	0.902	0.918	0.952	0.906	2.829	-1.483	0.974
	Urban	JJA	14	64	227	0.4817	1.74	0.924	0.929	0.924	0.931	0.909	1.258	1.304	1.505
Moscow_MSU_MO	Urban	MAM	8	84	173	0.4914	1.5	0.909	0.926	0.933	0.934	0.891	5.095	0.258	1.054
	Urban	JJA	11	72	195	0.4724	1.56	0.908	0.922	0.923	0.932	0.873	2.505	-0.362	1.163

Palaiseau	Urban	MAM	6	30	68	0.4696	1.57	0.930	0.945	0.951	0.945	0.920	3.263	0.566	1.359
	Urban	JJA	10	54	100	0.4723	1.66	0.917	0.924	0.928	0.944	0.889	3.252	-0.676	1.508
Rome_Tor_Vergata	Mixt.	MAM	6	32	40	0.4835	0.46	0.911	0.930	0.944	0.936	0.872	3.772	-1.960	-0.202
	Mixt.	JJA	11	90	193	0.4611	0.53	0.896	0.904	0.920	0.937	0.889	3.227	-0.909	0.516
	Urban	MAM	7	33	47	0.4659	1.45	0.914	0.930	0.932	0.896	0.861	2.055	0.985	0.983
	Urban	JJA	19	70	164	0.4737	1.62	0.924	0.929	0.928	0.881	0.862	1.878	1.776	0.774
	Urban	SON	7	36	104	0.5016	1.42	0.867	0.861	0.844	0.815	0.799	0.236	1.341	0.653
Thessaloniki	Mixt.	MAM	5	26	33	0.5258	1.01	0.913	0.931	0.938	0.930	0.916	3.282	0.912	1.021
	Mixt.	JJA	13	119	189	0.5344	0.66	0.915	0.923	0.932	0.948	0.893	2.298	-1.433	0.733
	Mixt.	SON	6	47	121	0.4802	1.12	0.900	0.912	0.911	0.871	0.862	1.560	1.240	0.641
	Urban	JJA	35	127	200	0.5144	1.64	0.935	0.939	0.941	0.914	0.905	3.557	1.920	0.904
Toulon	Mixt.	JJA	5	30	40	0.491	0.81	0.899	0.922	0.930	0.931	0.895	2.698	-0.272	0.903
Sahel															
Banizoumbou	Dust	DJF	17	151	175	0.7599	0.13	0.931	0.935	0.946	0.958	0.971	2.374	1.876	1.777
	Dust	MAM	153	1509	1399	0.7852	0.13	0.896	0.909	0.932	0.935	0.957	4.386	2.047	2.010
	Dust	JJA	53	391	500	0.647	0.11	0.884	0.901	0.927	0.927	0.953	4.092	2.011	1.908
	Dust	SON	19	164	82	0.5226	0.17	0.917	0.930	0.946	0.937	0.957	4.528	1.925	1.701
	Mixt.	DJF	115	941	3078	0.675	0.47	0.909	0.913	0.925	0.937	0.932	2.752	0.491	1.499
	Mixt.	MAM	67	669	943	0.6566	0.25	0.908	0.920	0.942	0.946	0.931	4.976	-0.176	1.138
	Mixt.	JJA	15	94	285	0.5056	0.37	0.879	0.897	0.914	0.928	0.908	4.501	-0.206	1.200
	Mixt.	SON	50	356	1166	0.5056	0.37	0.926	0.937	0.952	0.943	0.907	5.041	-1.131	0.117
Dakar	Dust	DJF	21	117	128	0.6452	0.14	0.913	0.916	0.929	0.949	0.977	2.586	3.267	2.527
	Dust	MAM	85	527	568	0.757	0.13	0.883	0.894	0.919	0.931	0.973	3.826	3.988	3.062
	Dust	JJA	51	239	317	0.8007	0.1	0.867	0.883	0.913	0.932	0.971	4.174	3.326	2.696
	Dust	SON	6	19	9	0.7943	0.1	0.903	0.915	0.931	0.937	0.958	2.714	1.704	1.720
	Mixt.	DJF	63	366	423	0.5961	0.51	0.893	0.900	0.915	0.924	0.957	2.802	3.109	2.357
	Mixt.	MAM	57	337	303	0.5534	0.34	0.894	0.905	0.927	0.938	0.970	4.268	3.633	2.649
	Mixt.	SON	13	48	89	0.5509	0.46	0.911	0.915	0.930	0.915	0.895	3.734	0.002	0.729
IER_Cinzana	Dust	DJF	26	227	322	0.7313	0.13	0.906	0.909	0.921	0.938	0.969	1.789	3.185	2.501
	Dust	MAM	93	899	969	0.8274	0.12	0.883	0.891	0.911	0.930	0.969	2.693	3.606	2.770
	Dust	JJA	49	292	281	0.7129	0.09	0.868	0.884	0.915	0.939	0.973	3.705	3.707	3.049
	Dust	SON	19	152	225	0.6054	0.13	0.898	0.909	0.921	0.935	0.959	1.808	2.021	1.438
	Mixt.	DJF	93	731	1379	0.6492	0.49	0.894	0.896	0.906	0.920	0.949	1.834	2.606	2.252
	Mixt.	MAM	44	325	388	0.5777	0.3	0.888	0.897	0.915	0.925	0.953	3.231	2.639	2.169
	Mixt.	JJA	7	22	37	0.5117	0.37	0.922	0.936	0.953	0.935	0.941	4.496	1.374	2.257

	Mixt.	SON	26	206	476	0.4916	0.34	0.922	0.932	0.942	0.941	0.917	4.056	-0.354	0.596
Ilorin	Dust	MAM	7	93	134	1.1785	0.15	0.875	0.887	0.909	0.923	0.942	2.801	1.152	1.330
	Mixt.	DJF	295	2797	8706	1.1725	0.68	0.888	0.891	0.897	0.903	0.901	1.501	0.780	1.095
	Mixt.	MAM	63	537	821	0.8371	0.33	0.895	0.908	0.928	0.924	0.935	4.489	1.462	1.355
	Mixt.	SON	38	345	854	0.6246	0.66	0.899	0.904	0.911	0.923	0.882	2.302	-0.876	0.429
	Carbon.	DJF	19	77	259	1.0556	1.33	0.866	0.863	0.867	0.872	0.866	1.676	1.252	1.366
	Urban	DJF	37	259	1215	0.8462	1.3	0.866	0.864	0.861	0.857	0.859	1.078	1.465	1.279
	Urban	SON	5	62	188	0.5491	1.31	0.866	0.870	0.872	0.855	0.842	1.660	1.318	1.167
Ouagadougou	Dust	DJF	6	110	229	1.3104	0.09	0.893	0.900	0.914	0.931	0.962	1.694	2.198	1.519
	Dust	MAM	19	240	345	0.8722	0.13	0.895	0.903	0.921	0.925	0.969	2.722	3.495	1.981
	Dust	JJA	11	72	127	0.9311	0.09	0.890	0.905	0.932	0.930	0.961	4.161	2.414	2.055
	Mixt.	DJF	19	179	438	0.9063	0.36	0.906	0.908	0.917	0.937	0.962	1.679	2.593	2.415
	Mixt.	SON	6	81	142	0.6574	0.33	0.926	0.933	0.941	0.933	0.938	2.979	1.276	0.716
Zinder_Airport	Dust	MAM	33	388	356	0.8138	0.13	0.883	0.895	0.916	0.941	0.981	3.005	4.551	3.582
	Dust	JJA	26	206	123	0.652	0.09	0.873	0.892	0.923	0.948	0.987	4.586	5.759	3.986
	Mixt.	DJF	22	207	259	0.5807	0.55	0.890	0.897	0.912	0.943	0.983	2.562	5.038	3.481
	Mixt.	MAM	22	195	160	0.6094	0.27	0.879	0.890	0.909	0.953	0.981	2.410	4.547	3.543
	Mixt.	JJA	6	47	28	0.5309	0.27	0.897	0.918	0.938	0.961	0.967	3.736	1.977	1.868
	Mixt.	SON	15	87	181	0.5209	0.38	0.905	0.918	0.933	0.940	0.965	3.362	2.495	1.822
Agoufou	Dust	DJF	13	107	197	0.8096	0.11	0.923	0.926	0.939	0.952	0.968	2.477	1.980	1.894
	Dust	MAM	86	905	975	0.79	0.12	0.899	0.910	0.930	0.935	0.958	3.533	2.021	1.858
	Dust	JJA	68	560	890	0.6931	0.09	0.894	0.906	0.928	0.923	0.950	3.726	1.924	1.579
	Dust	SON	18	140	192	0.625	0.12	0.899	0.913	0.934	0.941	0.956	4.159	1.565	1.708
	Mixt.	DJF	33	329	927	0.6317	0.43	0.916	0.922	0.936	0.935	0.924	3.119	0.155	0.770
	Mixt.	MAM	24	272	355	0.541	0.25	0.922	0.931	0.950	0.924	0.900	5.446	-0.103	0.606
	Mixt.	JJA	14	88	265	0.4565	0.24	0.897	0.909	0.927	0.938	0.908	4.032	-0.856	0.246
	Mixt.	SON	26	192	518	0.5014	0.37	0.929	0.940	0.955	0.949	0.913	5.103	-1.286	0.113
Southern Africa															
Mongu	Carbon.	JJA	25	156	328	0.7731	1.83	0.853	0.852	0.861	0.882	0.835	2.490	0.922	1.718
	Carbon.	SON	21	182	447	1.0813	1.79	0.863	0.867	0.881	0.906	0.862	3.023	0.797	1.591
	Urban	JJA	29	316	358	0.5136	1.85	0.868	0.868	0.869	0.905	0.853	1.899	0.910	2.122
	Urban	SON	19	208	135	0.7031	1.71	0.879	0.885	0.889	0.933	0.873	2.147	0.050	1.783
Skukuza	Carbon.	SON	7	51	56	0.565	1.67	0.898	0.906	0.934	0.922	0.900	6.811	1.122	1.469
	Urban	JJA	8	66	120	0.5346	1.59	0.894	0.900	0.904	0.922	0.903	2.949	0.750	1.622
	Urban	SON	11	104	180	0.5055	1.6	0.902	0.914	0.933	0.880	0.847	4.635	1.188	1.428

Mongu_Inn	Urban	JJA	14	44	70	0.6429	1.74	0.844	0.847	0.856	0.867	0.910	2.502	3.487	2.718
	Urban	SON	27	141	354	0.9035	1.78	0.857	0.855	0.852	0.851	0.910	1.593	4.028	2.920
Pretoria_CSIR-DPS	Urban	JJA	5	40	61	0.4985	1.5	0.864	0.871	0.884	0.914	0.881	2.837	0.995	1.984
	Urban	SON	7	70	113	0.4302	1.48	0.868	0.873	0.883	0.908	0.874	2.935	1.261	1.740
Sahara															
Saada	Dust	JJA	44	248	276	0.6492	0.13	0.881	0.897	0.928	0.946	0.980	4.974	4.251	2.950
	Dust	SON	5	27	55	0.5454	0.13	0.892	0.902	0.930	0.942	0.970	4.912	3.758	2.766
	Mixt.	MAM	8	55	127	0.607	0.29	0.877	0.894	0.912	0.943	0.945	2.618	0.681	1.620
	Mixt.	JJA	43	245	218	0.5179	0.28	0.886	0.899	0.926	0.948	0.966	4.910	2.447	2.535
Tamanrasset_INM	Dust	MAM	22	159	239	0.7692	0.16	0.867	0.889	0.916	0.930	0.972	3.894	3.937	3.285
	Dust	JJA	40	241	303	0.8026	0.1	0.873	0.890	0.917	0.930	0.972	3.900	4.002	3.074
	Dust	SON	7	19	30	0.7351	0.1	0.877	0.893	0.918	0.939	0.979	3.728	4.490	2.839
	Mixt.	MAM	16	128	175	0.5826	0.26	0.875	0.893	0.920	0.926	0.965	3.752	3.851	2.368
	Mixt.	JJA	6	35	33	0.4613	0.29	0.851	0.867	0.893	0.916	0.960	2.825	3.820	2.651
Middle East															
Nes_Ziona	Mixt.	MAM	14	90	72	0.4771	0.45	0.894	0.909	0.925	0.923	0.903	3.903	-0.157	0.884
	Mixt.	JJA	11	84	57	0.5146	0.87	0.918	0.927	0.940	0.928	0.926	3.866	1.133	1.515
	Mixt.	SON	7	38	31	0.5544	0.98	0.901	0.914	0.926	0.941	0.929	2.922	0.180	1.613
	Urban	JJA	5	28	19	0.5302	1.4	0.924	0.926	0.931	0.929	0.911	2.337	2.210	1.982
SEDE_BOKER	Dust	MAM	13	96	48	0.7777	0.1	0.896	0.911	0.940	0.960	0.984	5.712	3.639	3.202
	Mixt.	MAM	9	54	21	0.5125	0.27	0.898	0.912	0.938	0.963	0.961	6.246	0.788	2.232
	Mixt.	JJA	7	35	12	0.573	0.48	0.898	0.914	0.940	0.963	0.977	5.104	3.567	3.007
Solar_Village	Dust	DJF	9	53	57	0.6036	0.12	0.940	0.947	0.966	0.958	0.984	8.175	3.795	2.763
	Dust	MAM	5	47	9	0.9347	0.06	0.901	0.912	0.938	0.971	0.991	3.967	4.090	4.290
	Dust	JJA	21	187	222	0.9524	0.11	0.901	0.913	0.937	0.958	0.984	4.013	3.843	3.769
	Dust	SON	7	31	34	0.832	0.12	0.910	0.921	0.947	0.960	0.986	5.614	4.659	3.813
	Mixt.	JJA	28	201	80	0.6076	0.4	0.905	0.917	0.938	0.962	0.981	4.444	4.569	3.996
	Mixt.	SON	9	63	47	0.493	0.51	0.918	0.929	0.946	0.961	0.979	3.629	3.803	2.505
Cairo_EMA_2	Dust	MAM	5	14	16	0.9484	0.12	0.892	0.906	0.927	0.966	0.987	3.125	3.380	3.646
	Mixt.	DJF	9	52	122	0.6635	0.78	0.889	0.898	0.904	0.908	0.902	1.693	1.562	1.426
	Mixt.	MAM	82	588	568	0.5654	0.62	0.892	0.906	0.921	0.929	0.908	3.364	0.450	1.353
	Mixt.	JJA	103	556	769	0.5125	0.89	0.892	0.901	0.913	0.932	0.901	2.843	0.309	1.288
	Mixt.	SON	29	151	209	0.5258	0.88	0.881	0.890	0.898	0.918	0.895	2.294	0.474	1.599
	Carbon.	DJF	5	8	14	0.6311	1.41	0.890	0.892	0.900	0.898	0.916	2.913	2.459	1.863
	Urban	DJF	11	50	113	0.6341	1.34	0.881	0.883	0.876	0.860	0.874	1.216	2.333	1.775

	Urban	MAM	15	78	98	0.5369	1.31	0.896	0.910	0.920	0.916	0.898	4.004	1.398	1.771
	Urban	JJA	51	162	286	0.5246	1.3	0.890	0.899	0.903	0.904	0.868	2.150	0.740	1.308
	Urban	SON	24	72	150	0.6005	1.33	0.878	0.884	0.884	0.904	0.894	1.668	1.871	1.969
NorthEastern Asia															
Beijing	Dust	MAM	11	75	126	1.1352	0.1	0.882	0.907	0.923	0.930	0.950	2.954	1.559	1.445
	Mixt.	DJF	23	133	605	0.8367	0.99	0.865	0.885	0.891	0.891	0.872	1.898	0.368	1.183
	Mixt.	MAM	95	717	1920	0.8858	0.74	0.895	0.912	0.925	0.929	0.902	3.184	-0.071	0.906
	Mixt.	JJA	12	59	191	0.609	0.72	0.893	0.915	0.922	0.918	0.859	2.979	-1.271	0.283
	Mixt.	SON	17	81	507	0.6004	0.94	0.871	0.883	0.880	0.904	0.877	0.812	0.170	0.917
	Carbon.	DJF	39	176	503	0.9813	1.34	0.874	0.887	0.898	0.906	0.889	2.834	0.931	1.638
	Carbon.	MAM	10	31	72	1.073	1.36	0.895	0.907	0.915	0.918	0.912	2.488	1.332	1.525
	Carbon.	SON	6	7	72	0.6694	1.44	0.880	0.887	0.895	0.916	0.893	2.608	0.798	1.754
	Urban	DJF	33	176	777	0.614	1.36	0.861	0.882	0.882	0.885	0.868	1.598	1.064	1.524
	Urban	MAM	40	230	810	0.6502	1.42	0.894	0.910	0.916	0.921	0.898	2.903	1.125	1.575
	Urban	JJA	16	66	149	0.617	1.45	0.922	0.942	0.948	0.916	0.876	4.456	0.403	0.826
	Urban	SON	26	117	811	0.5993	1.37	0.893	0.903	0.900	0.897	0.874	1.722	0.843	1.260
XiangHe	Dust	MAM	9	81	101	1.1211	0.08	0.884	0.908	0.927	0.941	0.959	2.847	1.933	1.932
	Mixt.	DJF	21	140	587	0.8295	0.91	0.882	0.902	0.917	0.918	0.907	3.130	0.217	1.257
	Mixt.	MAM	103	840	2459	0.8442	0.82	0.903	0.918	0.932	0.939	0.922	3.640	0.279	1.233
	Mixt.	JJA	13	69	162	0.863	0.84	0.908	0.923	0.927	0.911	0.871	2.120	-0.554	0.623
	Mixt.	SON	20	128	748	0.7105	0.96	0.892	0.902	0.907	0.923	0.901	2.018	0.265	0.877
	Carbon.	DJF	39	208	773	0.8137	1.35	0.878	0.898	0.914	0.919	0.905	3.636	0.857	1.793
	Carbon.	MAM	12	37	94	0.7896	1.41	0.903	0.913	0.929	0.945	0.929	5.004	0.605	1.895
	Carbon.	JJA	5	19	33	0.9614	1.36	0.927	0.942	0.961	0.957	0.937	6.377	0.291	1.606
	Carbon.	SON	11	30	124	0.6445	1.29	0.890	0.902	0.914	0.941	0.921	2.904	0.355	1.713
	Urban	DJF	13	82	338	0.6676	1.36	0.903	0.923	0.930	0.932	0.921	2.973	0.976	1.591
	Urban	MAM	31	212	688	0.6442	1.41	0.912	0.924	0.934	0.942	0.920	3.507	0.605	1.627
	Urban	JJA	25	104	308	0.7741	1.43	0.912	0.925	0.934	0.930	0.905	5.030	0.705	1.132
	Urban	SON	24	144	738	0.5724	1.33	0.904	0.915	0.916	0.924	0.902	2.142	0.507	1.396
Japan															
Osaka	Mixt.	MAM	31	182	283	0.6238	0.82	0.902	0.913	0.927	0.930	0.893	3.831	-0.416	0.770
	Urban	MAM	24	117	207	0.5645	1.48	0.908	0.917	0.922	0.908	0.864	2.757	0.665	0.983
Shirahama	Mixt.	MAM	16	53	79	0.5818	0.81	0.910	0.926	0.941	0.927	0.863	4.850	-1.637	1.079
	Urban	MAM	12	50	80	0.5342	1.43	0.907	0.919	0.920	0.917	0.882	1.922	0.875	1.327
Northern India															

Kanpur	Dust	MAM	19	143	181	0.8901	0.12	0.873	0.884	0.902	0.952	0.971	2.120	2.798	3.016
	Dust	JJA	8	66	26	0.8393	0.08	0.889	0.903	0.915	0.958	0.974	1.856	2.385	2.832
	Mixt.	DJF	22	175	790	0.5799	0.99	0.883	0.893	0.901	0.908	0.856	2.303	-0.249	0.697
	Mixt.	MAM	262	2025	5087	0.6774	0.61	0.874	0.885	0.895	0.929	0.912	1.875	0.606	1.839
	Mixt.	JJA	39	290	326	0.6765	0.48	0.893	0.908	0.920	0.958	0.927	2.556	-0.760	1.973
	Mixt.	SON	22	154	545	0.5883	0.88	0.884	0.897	0.900	0.934	0.893	1.592	-0.524	0.983
	Carbon.	DJF	25	105	432	0.8159	1.38	0.915	0.914	0.925	0.931	0.912	3.570	0.581	1.155
	Carbon.	SON	24	120	583	0.9447	1.35	0.904	0.909	0.921	0.932	0.913	2.857	0.806	1.483
	Urban	DJF	29	151	1054	0.5419	1.41	0.892	0.894	0.895	0.913	0.869	1.571	0.283	1.101
	Urban	MAM	16	132	296	0.7101	1.31	0.887	0.893	0.891	0.907	0.865	1.080	0.388	0.903
	Urban	SON	29	226	1094	0.5904	1.38	0.898	0.904	0.908	0.910	0.863	1.977	0.300	1.066
Jaipur	Dust	MAM	21	157	98	0.5836	0.15	0.881	0.896	0.914	0.943	0.975	3.023	3.844	3.481
	Dust	JJA	6	56	12	0.5176	0.14	0.894	0.911	0.926	0.959	0.977	2.685	3.336	3.471
	Mixt.	DJF	20	131	380	0.5602	0.93	0.869	0.877	0.881	0.919	0.890	1.320	0.152	1.432
	Mixt.	MAM	78	590	540	0.5304	0.55	0.881	0.893	0.900	0.933	0.916	1.837	0.238	1.792
	Mixt.	JJA	23	148	71	0.5391	0.46	0.886	0.905	0.916	0.940	0.926	2.142	0.346	1.719
	Mixt.	SON	19	123	436	0.5315	0.81	0.874	0.886	0.885	0.923	0.878	0.840	-0.267	1.062
	Urban	DJF	22	126	452	0.5308	1.34	0.877	0.881	0.874	0.906	0.889	0.760	0.943	1.519
	Urban	SON	7	36	158	0.5948	1.29	0.868	0.869	0.863	0.918	0.923	0.813	1.879	2.037
Gandhi_College	Mixt.	DJF	6	52	165	0.5102	0.97	0.865	0.871	0.877	0.927	0.868	1.689	-0.690	1.150
	Mixt.	MAM	200	1390	4099	0.7896	0.76	0.874	0.882	0.888	0.911	0.892	1.515	0.731	1.584
	Mixt.	JJA	32	163	352	0.7924	0.6	0.886	0.896	0.903	0.941	0.923	1.720	0.023	1.691
	Mixt.	SON	6	30	101	0.5398	0.63	0.901	0.922	0.940	0.950	0.884	3.973	-2.412	0.619
	Carbon.	SON	8	24	162	0.9048	1.39	0.917	0.919	0.928	0.938	0.925	2.807	1.059	1.412
	Urban	DJF	7	56	264	0.5381	1.42	0.894	0.900	0.898	0.905	0.869	1.328	0.684	1.118
	Urban	MAM	26	140	495	0.7505	1.37	0.890	0.890	0.884	0.896	0.882	0.844	1.524	1.556
	Urban	SON	9	59	230	0.5532	1.38	0.893	0.905	0.911	0.903	0.836	2.302	-0.153	0.817
Northern Australia															
Jabiru	Carbon.	SON	10	43	56	0.5487	1.7	0.891	0.898	0.913	0.895	0.872	4.855	1.534	1.594
	Urban	SON	13	56	101	0.499	1.71	0.890	0.890	0.891	0.892	0.880	1.844	1.688	1.519
Lake_Argyle	Carbon.	SON	33	174	496	0.6524	1.59	0.872	0.872	0.876	0.883	0.870	2.131	1.731	1.350
	Urban	SON	21	95	230	0.4725	1.65	0.857	0.862	0.864	0.881	0.862	1.862	2.008	1.628