

Appendix 4.3. 2016–2019 IMPROVE and CSN Annual Mean Light Extinction Coefficients

Table 4.3.1. IMPROVE 2016-2019 annual mean ambient reconstructed light extinction coefficients (b_{ext} , Mm^{-1} , 550 nm) for ammonium sulfate (AS), ammonium nitrate (AN), particulate organic matter (POM), elemental carbon (EC), fine dust (FD), sea salt (SS), coarse mass (CM), fine aerosol, total aerosol, total (aerosol + Rayleigh), and deciview (dv).

Site	State	Lat (°)	Lon (°)	Elev (m)	b_{ext_AS}	b_{ext_AN}	b_{ext_POM}	b_{ext_EC}	b_{ext_FD}	b_{ext_SS}	b_{ext_CM}	b_{ext_fine}	b_{ext_aer}	b_{ext_tot}	dv
ACAD	ME	44.377	-68.261	157	7.06	2.43	5.27	1.04	0.12	1.57	1.57	17.50	19.07	31.07	11.34
AGTI	CA	33.464	-116.971	507	6.99	5.38	6.30	1.87	0.62	1.18	4.48	22.35	26.82	37.82	13.30
BADL	SD	43.743	-101.941	736	6.09	3.03	6.03	1.06	0.53	0.09	2.51	16.84	19.35	30.35	11.10
BALD	AZ	34.058	-109.441	2508	2.61	0.67	4.30	0.87	0.54	0.08	1.44	9.08	10.52	19.52	6.69
BAND	NM	35.78	-106.266	1988	2.79	0.87	4.34	0.94	0.58	0.05	1.78	9.58	11.36	20.36	7.11
BIBE	TX	29.303	-103.178	1066	8.40	1.07	4.35	1.08	1.06	0.12	3.56	16.08	19.64	29.64	10.87
BIRM	AL	33.553	-86.815	175	18.23	5.52	16.82	9.28	1.01	1.29	6.02	52.15	58.18	69.18	19.34
BLIS	CA	38.976	-120.103	2130	2.44	0.88	7.98	1.24	0.37	0.10	1.35	13.02	14.37	23.37	8.49
BOAP	NM	33.869	-106.852	1389	3.25	1.13	5.02	1.26	0.88	0.17	3.01	11.71	14.72	24.72	9.05
BOLA	WY	42.847	-109.64	2296	2.09	0.71	5.79	0.84	0.38	0.05	1.02	9.88	10.89	19.89	6.88
BOND	IL	40.052	-88.373	263	15.92	19.37	8.06	2.70	0.37	0.38	3.84	46.81	50.65	61.65	18.19
BOWA	MN	47.947	-91.495	526	5.55	3.78	5.66	0.98	0.16	0.36	1.42	16.49	17.90	28.90	10.61
BRCA	UT	37.618	-112.174	2481	2.19	0.91	4.79	0.83	0.52	0.08	1.57	9.32	10.89	19.89	6.88
BRID	WY	42.975	-109.758	2626	2.04	0.75	6.58	0.91	0.35	0.05	0.98	10.69	11.67	20.67	7.26
BRIG	NJ	39.465	-74.449	5	11.69	7.26	8.07	2.34	0.26	2.46	5.22	32.08	37.31	49.31	15.95
BRIS	LA	30.109	-89.762	-7	19.52	4.36	7.96	2.58	0.87	2.10	3.51	37.39	40.91	51.91	16.47
BYIS		37.966	124.631	100	62.34	42.94	13.41	7.27	1.65	2.98	9.95	130.59	140.54	150.54	27.12
CABA	ME	43.833	-70.064	26	6.87	2.97	8.15	2.37	0.16	1.63	1.95	22.15	24.09	36.09	12.84
CABI	MT	47.955	-115.671	1441	2.79	1.16	11.07	2.16	0.35	0.15	1.16	17.68	18.85	28.85	10.59
CACO	MA	41.976	-70.024	49	8.54	3.43	5.67	1.22	0.17	4.77	3.25	23.81	27.07	39.07	13.63
CACR	AR	34.454	-94.143	683	15.02	4.63	9.46	2.00	0.74	0.38	2.80	32.25	35.05	46.05	15.27
CANY	UT	38.459	-109.821	1798	2.27	0.97	3.90	0.69	0.63	0.08	1.85	8.53	10.38	19.38	6.62
CAPI	UT	38.302	-111.293	1896	2.44	1.07	4.13	0.76	0.74	0.08	2.06	9.23	11.29	20.29	7.07
CAVE	NM	32.178	-104.444	1355	6.54	2.02	4.53	1.66	1.86	0.09	5.19	16.70	21.89	31.89	11.60
CEBL	KS	38.77	-99.763	665	8.29	6.46	6.67	1.34	0.87	0.13	4.80	23.75	28.55	39.55	13.75
CHAS	FL	28.748	-82.555	4	15.89	4.10	11.98	3.37	0.78	3.16	3.25	39.27	42.52	53.52	16.77
CHIR	AZ	32.009	-109.389	1554	3.53	0.79	3.66	0.78	1.02	0.13	4.01	9.90	13.91	23.91	8.72
COHU	GA	34.785	-84.627	735	12.94	4.01	9.63	2.13	0.35	0.28	2.26	29.33	31.59	42.59	14.49
CORI	WA	45.664	-121.001	178	7.20	14.74	10.20	2.34	1.22	0.94	7.19	36.64	43.83	55.83	17.20
CRLA	OR	42.896	-122.136	1996	2.87	1.04	14.66	2.52	0.28	0.23	0.63	21.60	22.24	31.24	11.39
CRMO	ID	43.46	-113.555	1817	2.05	2.25	7.89	1.20	0.49	0.15	1.79	14.04	15.83	25.83	9.49

Site	State	Lat (°)	Lon (°)	Elev (m)	b _{ext_AS}	b _{ext_AN}	b _{ext_POM}	b _{ext_EC}	b _{ext_FD}	b _{ext_SS}	b _{ext_CM}	b _{ext_fine}	b _{ext_aer}	b _{ext_tot}	dv
DENA	AK	63.723	-148.967	658	2.24	0.34	3.86	0.49	0.10	0.29	0.70	7.33	8.04	19.04	6.44
DOME	CA	35.728	-118.138	927	5.23	2.78	9.97	1.67	1.07	0.22	6.52	20.94	27.46	37.46	13.21
DOSO	WV	39.105	-79.426	1182	12.95	4.12	6.61	1.73	0.24	0.16	1.52	25.82	27.33	37.33	13.17
EGBE	ON	44.231	-79.783	251	10.78	13.98	7.43	2.48	0.21	0.45	2.43	35.33	37.77	49.77	16.05
EVER	FL	25.391	-80.681	1	12.48	3.37	19.04	1.81	0.95	4.30	4.36	41.94	46.30	57.30	17.46
FCPC	WI	45.565	-88.808	564	7.76	8.68	6.57	1.50	0.17	0.33	1.50	25.02	26.52	37.52	13.22
FLAT	MT	47.773	-114.269	1580	3.00	1.29	11.48	1.82	0.30	0.09	1.37	17.99	19.36	29.36	10.77
FLTO	CO	39.915	-107.634	2593	2.24	0.68	5.77	0.67	0.51	0.05	1.27	9.92	11.19	20.19	7.03
FOPE	MT	48.308	-105.102	638	6.43	5.64	6.93	1.25	0.51	0.13	2.86	20.89	23.75	34.75	12.46
FRES	CA	36.782	-119.773	100	8.48	29.41	22.32	6.58	1.76	1.23	13.04	69.78	82.81	93.81	22.39
FRRE	MD	39.706	-79.012	767	15.57	5.69	7.49	2.43	0.25	0.21	1.91	31.62	33.53	44.53	14.94
GAMO	MT	46.826	-111.711	2387	2.04	0.85	6.92	0.92	0.27	0.05	0.82	11.03	11.85	20.85	7.35
GICL	NM	33.22	-108.235	1775	2.71	0.54	5.90	1.23	0.66	0.09	1.66	11.12	12.78	21.78	7.78
GLAC	MT	48.511	-113.997	975	4.22	2.93	13.14	2.64	0.60	0.14	2.65	23.67	26.31	37.31	13.17
GRBA	NV	39.005	-114.216	2065	1.88	0.55	3.97	0.64	0.64	0.08	1.77	7.75	9.52	18.52	6.16
GRCA	AZ	36.066	-112.154	2164	2.45	0.82	3.29	0.66	0.68	0.11	1.10	8.01	9.12	18.12	5.94
GRGU	NH	44.308	-71.218	453	6.22	1.44	5.42	1.07	0.13	0.26	1.39	14.54	15.92	26.92	9.90
GRR1	MN	43.937	-91.405	370	8.99	13.58	7.53	2.04	0.31	0.38	2.71	32.82	35.53	46.53	15.38
GRSA	CO	37.725	-105.519	2498	2.52	0.79	4.70	0.74	0.90	0.05	1.72	9.71	11.43	20.43	7.14
GRSM	TN	35.633	-83.942	810	12.95	3.76	9.56	2.11	0.33	0.27	2.10	28.98	31.07	42.07	14.37
GUMO	TX	31.833	-104.809	1672	5.95	1.68	4.25	1.11	2.09	0.12	4.77	15.20	19.97	28.97	10.64
HACR	HI	20.758	-156.248	2158	4.73	0.62	0.60	0.15	0.15	0.64	0.59	6.89	7.48	16.48	5.00
HAVO	HI	19.431	-155.258	1258	17.83	0.76	1.08	0.24	0.11	2.44	1.01	22.47	23.48	33.48	12.08
HECA	OR	44.97	-116.844	655	2.37	2.91	8.43	1.26	0.39	0.13	1.72	15.48	17.20	28.20	10.37
HEGL	MO	36.614	-92.922	404	13.11	6.47	9.47	2.33	0.59	0.24	3.11	32.22	35.33	46.33	15.33
HOOV	CA	38.088	-119.177	2560	2.26	0.76	7.36	1.06	0.57	0.10	1.31	12.12	13.44	22.44	8.08
IKBA	AZ	34.34	-111.683	1297	3.15	1.27	4.52	1.04	0.96	0.22	3.04	11.16	14.19	24.19	8.84
ISLE	MI	47.46	-88.149	182	6.46	4.05	5.36	1.05	0.15	0.36	1.43	17.43	18.86	30.86	11.27
JARB	NV	41.893	-115.426	1869	1.94	0.56	6.33	0.91	1.01	0.11	2.48	10.86	13.34	23.34	8.48
JARI	VA	37.627	-79.512	289	12.17	3.97	10.67	3.36	0.30	0.21	1.76	30.68	32.44	43.44	14.69
JOSH	CA	34.07	-116.389	1235	4.46	3.27	5.01	1.21	1.01	0.35	4.43	15.30	19.73	29.73	10.89
KAIS	CA	37.221	-119.155	2597	3.44	1.78	8.00	1.30	0.61	0.12	2.57	15.25	17.81	26.81	9.86
KALM	OR	42.552	-124.059	80	4.10	1.37	13.48	2.28	0.16	1.75	1.41	23.15	24.56	36.56	12.96
KPBO	AK	60.012	-151.711	5	4.51	1.27	3.52	0.59	0.27	3.88	5.26	14.03	19.29	31.29	11.41
LABE	CA	41.712	-121.507	1459	2.73	1.12	13.82	2.66	0.35	0.16	1.20	20.84	22.04	32.04	11.64
LASU	IA	40.693	-92.006	229	12.48	14.97	8.15	2.36	0.54	0.33	5.88	38.83	44.71	55.71	17.18

Site	State	Lat (°)	Lon (°)	Elev (m)	bext_AS	bext_AN	bext_POM	bext_EC	bext_FD	bext_SS	bext_CM	bext_fine	bext_aer	bext_tot	dv
LAVO	CA	40.54	-121.577	1732	2.74	1.12	14.12	2.09	0.35	0.17	1.40	20.58	21.98	31.98	11.63
LIGO	NC	35.972	-81.933	968	11.22	2.46	9.99	2.22	0.25	0.23	1.71	26.37	28.08	39.08	13.63
LOND	NH	42.862	-71.38	124	7.66	3.96	8.90	2.92	0.20	0.71	2.05	24.35	26.41	38.41	13.46
LOST	ND	48.642	-102.402	696	8.21	7.64	6.30	1.74	0.54	0.22	3.86	24.66	28.52	39.52	13.74
LTCC	CA	38.925	-119.98	1935	2.41	1.16	10.59	2.68	0.63	0.15	3.16	17.61	20.77	29.77	10.91
LYEB	VT	42.956	-72.91	882	6.84	3.69	5.21	1.23	0.15	0.23	1.15	17.34	18.49	29.49	10.81
MACA	KY	37.132	-86.148	235	18.10	8.50	10.00	2.74	0.34	0.30	2.39	39.98	42.37	53.37	16.75
MAKA	WA	48.298	-124.625	480	4.63	2.08	4.70	0.69	0.07	2.51	0.92	14.68	15.59	26.59	9.78
MAVI	MA	41.331	-70.785	2	9.06	4.50	5.29	1.25	0.19	6.33	6.68	26.62	33.30	45.30	15.11
MEAD	AZ	36.019	-114.068	902	2.55	0.85	3.24	0.65	1.11	0.16	3.17	8.56	11.73	21.73	7.76
MELA	MT	48.487	-104.476	606	6.93	6.51	6.04	1.28	0.76	0.15	3.36	21.68	25.04	36.04	12.82
MEVE	CO	37.198	-108.491	2172	2.55	0.79	3.40	0.63	0.57	0.06	1.46	7.99	9.46	18.46	6.13
MING	MO	36.972	-90.143	111	14.76	7.32	11.07	3.14	0.84	0.29	4.97	37.41	42.38	54.38	16.93
MOHO	OR	45.289	-121.784	1531	3.19	1.54	5.13	0.88	0.26	0.56	1.02	11.56	12.58	22.58	8.14
MOMO	CT	41.821	-73.297	521	8.04	4.52	6.98	1.82	0.18	0.37	1.44	21.91	23.35	34.35	12.34
MONT	MT	47.122	-113.154	1282	2.54	0.77	16.65	1.99	0.50	0.08	1.58	22.53	24.11	34.11	12.27
MOOS	ME	45.126	-67.266	77	6.77	2.00	5.39	1.00	0.13	1.36	1.21	16.65	17.87	29.87	10.94
MORA	WA	46.758	-122.124	439	5.29	1.59	7.68	1.58	0.14	0.72	1.23	16.99	18.22	29.22	10.72
MOZI	CO	40.538	-106.677	3243	2.33	0.83	4.58	0.71	0.38	0.05	1.15	8.88	10.03	18.03	5.89
NEBR	NE	41.889	-100.339	883	6.68	5.28	5.93	1.13	0.51	0.09	2.82	19.62	22.44	33.44	12.07
NOAB	WY	44.745	-109.382	2482	1.87	0.70	4.69	0.63	0.32	0.04	1.15	8.26	9.41	18.41	6.10
NOCA	WA	48.732	-121.065	568	3.87	1.02	9.10	1.22	0.14	0.31	0.86	15.66	16.51	27.51	10.12
NOCH	MT	45.65	-106.557	1283	3.72	1.49	6.90	1.02	0.43	0.07	2.05	13.63	15.69	25.69	9.43
NOGA	AZ	31.337	-110.937	1172	3.55	1.99	15.04	8.86	3.11	1.01	12.05	33.57	45.63	55.63	17.16
OKEF	GA	30.74	-82.128	48	14.89	3.28	10.84	2.40	0.67	2.04	3.23	34.12	37.35	48.35	15.76
OLYM	WA	48.007	-122.973	599	4.72	2.83	6.39	1.22	0.11	1.20	0.90	16.48	17.37	28.37	10.43
ORPI	AZ	31.951	-112.802	504	3.79	1.46	3.43	0.79	1.44	0.56	4.83	11.47	16.30	27.30	10.04
OWVL	CA	37.361	-118.331	1234	2.94	0.94	8.18	1.44	1.35	0.10	4.11	14.95	19.06	29.06	10.67
PACK	NH	42.862	-71.879	695	6.24	2.76	5.42	1.37	0.14	0.28	1.16	16.21	17.37	28.37	10.43
PASA	WA	48.388	-119.927	1627	3.16	1.55	10.24	2.14	0.27	0.16	1.02	17.50	18.52	28.52	10.48
PEFO	AZ	35.078	-109.769	1766	2.71	0.89	4.45	1.24	0.92	0.10	2.66	10.29	12.95	21.95	7.86
PENO	ME	44.948	-68.648	45	6.73	2.46	7.84	2.47	0.23	0.97	2.56	20.71	23.28	35.28	12.61
PHOE	AZ	33.504	-112.096	342	4.03	4.17	14.40	6.56	2.44	0.70	11.85	32.30	44.16	55.16	17.08
PINN	CA	36.483	-121.157	302	5.45	3.80	8.26	1.88	0.40	1.90	3.60	21.69	25.29	36.29	12.89
PMRF	VT	44.528	-72.869	401	7.23	3.05	6.06	1.41	0.14	0.31	1.15	18.20	19.34	30.34	11.10
PORE	CA	38.122	-122.909	97	7.08	5.56	6.33	1.53	0.24	12.73	4.89	33.46	38.35	50.35	16.16

Site	State	Lat (°)	Lon (°)	Elev (m)	bext_AS	bext_AN	bext_POM	bext_EC	bext_FD	bext_SS	bext_CM	bext_fine	bext_aer	bext_tot	dv
PRIS	ME	46.696	-68.033	165	6.41	2.09	6.57	1.95	0.37	0.68	3.17	18.07	21.24	33.24	12.01
PUSO	WA	47.57	-122.312	97	7.57	8.97	12.17	4.98	0.37	2.08	2.65	36.15	38.80	50.80	16.25
QUCI	OH	39.943	-81.338	366	16.78	8.62	8.76	3.04	0.31	0.22	2.58	37.72	40.30	51.30	16.35
RAFA	CA	34.734	-120.007	956	6.29	3.93	6.37	1.02	0.69	1.39	4.68	19.69	24.37	34.37	12.35
REDW	CA	41.561	-124.084	243	6.29	2.07	8.24	1.02	0.14	8.84	2.32	26.59	28.91	39.91	13.84
ROMA	SC	32.941	-79.657	4	14.51	3.44	9.44	2.21	0.51	3.26	3.21	33.37	36.58	48.58	15.81
ROMO	CO	40.278	-105.546	2760	2.56	1.39	5.17	0.93	0.51	0.05	1.73	10.59	12.32	21.32	7.57
SACR	NM	33.46	-104.404	1072	6.55	3.37	5.37	1.47	1.37	0.18	7.20	18.31	25.51	35.51	12.67
SAGA	CA	34.297	-118.028	1791	4.71	4.62	6.23	1.40	0.67	0.28	3.13	17.92	21.05	30.05	11.00
SAGO	CA	34.194	-116.913	1726	4.20	5.08	5.97	1.38	0.62	0.25	3.24	17.50	20.74	30.74	11.23
SAGU	AZ	32.175	-110.737	941	3.36	1.39	4.32	1.25	1.52	0.27	4.53	12.10	16.63	26.63	9.80
SAMA	FL	30.093	-84.161	7	15.92	3.56	10.11	2.22	0.68	3.10	2.96	35.59	38.55	49.55	16.00
SAPE	NM	36.014	-106.845	2935	2.36	0.70	3.31	0.62	0.54	0.06	1.14	7.59	8.73	16.73	5.15
SAWE	AZ	32.249	-111.218	714	3.58	1.79	4.81	1.58	2.18	0.32	6.73	14.26	20.98	30.98	11.31
SAWT	ID	44.171	-114.927	1990	1.67	0.49	12.52	1.82	0.36	0.06	1.00	16.92	17.92	27.92	10.27
SENE	MI	46.289	-85.95	214	7.45	5.35	5.52	1.23	0.14	0.28	1.20	19.98	21.18	33.18	11.99
SEQU	CA	36.489	-118.829	519	7.05	5.84	16.32	2.51	0.97	0.32	5.59	33.02	38.60	49.60	16.01
SHEN	VA	38.523	-78.435	1079	12.16	5.38	7.61	1.83	0.24	0.23	1.65	27.46	29.10	39.10	13.64
SHMI	CO	37.304	-107.484	2351	2.36	0.80	4.37	0.79	1.10	0.05	2.60	9.47	12.07	21.07	7.45
SHRO	NC	35.394	-82.774	1617	10.09	2.85	7.28	1.46	0.29	0.25	1.60	22.23	23.83	33.83	12.19
SIME	AK	55.326	-160.506	57	9.45	1.41	1.36	0.58	0.09	10.49	2.41	23.37	25.79	37.79	13.29
SIPS	AL	34.343	-87.339	286	14.70	5.02	11.91	2.92	0.51	0.38	2.34	35.44	37.77	48.77	15.85
SNPA	WA	47.422	-121.426	1049	4.50	3.27	7.68	1.44	0.18	0.69	0.81	17.76	18.58	29.58	10.84
STAR	OR	45.225	-118.513	1259	3.12	2.61	8.67	1.99	0.38	0.24	1.68	17.00	18.68	28.68	10.54
STIL	OK	35.751	-94.67	300	14.38	7.57	11.84	3.06	0.69	0.40	3.68	37.94	41.62	52.62	16.61
SULA	MT	45.86	-114	1895	2.12	0.71	9.69	1.19	0.28	0.07	1.14	14.06	15.19	25.19	9.24
SWAN	NC	35.451	-76.207	-3	11.77	3.89	7.72	1.58	0.34	2.99	2.95	28.29	31.24	43.24	14.64
SYCA	AZ	35.164	-111.982	2046	2.68	1.16	6.19	1.84	3.10	0.14	4.60	15.11	19.71	28.71	10.55
TALL	KS	38.434	-96.56	390	11.27	8.93	9.49	2.46	0.68	0.24	4.19	33.07	37.26	48.26	15.74
THBA	WY	44.663	-105.287	1195	4.00	1.97	6.63	1.21	0.65	0.05	2.65	14.51	17.16	27.16	9.99
THRO	ND	46.895	-103.378	852	6.80	5.08	6.29	1.30	0.52	0.13	3.12	20.12	23.24	34.24	12.31
THSI	OR	44.291	-122.043	885	3.82	1.09	12.47	1.44	0.46	0.32	2.25	19.59	21.84	32.84	11.89
TONT	AZ	33.655	-111.107	775	3.55	1.14	5.27	1.26	1.22	0.21	4.06	12.64	16.71	26.71	9.82
TRCR	AK	62.315	-150.316	155	2.98	0.52	4.21	0.53	0.11	0.46	1.11	8.82	9.93	21.93	7.85
TRIN	CA	40.786	-122.805	1014	3.29	1.46	15.35	2.13	0.34	0.39	1.36	22.95	24.31	34.31	12.33
ULBE	MT	47.582	-108.72	891	4.17	2.36	7.10	1.02	0.35	0.07	1.82	15.08	16.90	27.90	10.26

Site	State	Lat (°)	Lon (°)	Elev (m)	bext_AS	bext_AN	bext_POM	bext_EC	bext_FD	bext_SS	bext_CM	bext_fine	bext_aer	bext_tot	dv
UPBU	AR	35.826	-93.203	722	13.15	5.55	9.53	2.10	0.60	0.32	2.72	31.26	33.98	44.98	15.04
VIIS	VI	18.336	-64.796	51	7.92	2.18	2.30	0.44	1.95	8.72	7.87	23.51	31.38	42.38	14.44
VILA	IA	40.969	-95.045	371	11.00	13.03	7.56	2.30	0.60	0.27	5.74	34.75	40.49	51.49	16.39
VOYA	MN	48.413	-92.829	429	5.36	3.67	6.22	1.13	0.18	0.37	1.54	16.92	18.46	30.46	11.14
WEMI	CO	37.659	-107.8	2750	2.17	0.56	4.59	0.90	0.48	0.07	1.22	8.77	9.98	18.98	6.41
WHIT	NM	33.469	-105.535	2063	4.04	0.94	3.93	0.81	0.78	0.12	2.80	10.63	13.43	22.43	8.08
WHPA	WA	46.624	-121.388	1827	2.82	1.09	8.98	1.08	0.15	0.23	0.70	14.35	15.05	25.05	9.18
WHPE	NM	36.585	-105.452	3366	2.31	0.69	3.20	0.88	0.59	0.05	1.03	7.72	8.75	16.75	5.16
WHRI	CO	39.154	-106.821	3413	1.99	0.72	2.95	0.59	0.49	0.07	0.85	6.81	7.66	15.66	4.49
WICA	SD	43.558	-103.484	1296	4.25	2.13	6.33	1.15	0.49	0.07	1.91	14.43	16.34	26.34	9.69
WIMO	OK	34.732	-98.713	509	11.37	6.09	7.93	1.91	0.93	0.29	4.52	28.52	33.04	44.04	14.83
YELL	WY	44.565	-110.4	2442	2.01	0.91	6.25	0.92	0.27	0.08	1.00	10.44	11.44	20.44	7.15
YOSE	CA	37.713	-119.706	1603	3.70	1.98	27.01	3.18	0.56	0.16	2.81	36.58	39.39	49.39	15.97
ZICA	UT	37.198	-113.151	1215	2.51	0.79	3.78	0.81	1.06	0.10	2.86	9.04	11.91	21.91	7.84

Table 4.3.2. CSN 2016-2019 annual mean ambient reconstructed light extinction coefficients (b_{ext} , Mm^{-1} , 550 nm) for ammonium sulfate (AS), ammonium nitrate (AN), particulate organic matter (POM), elemental carbon (EC), fine dust (FD), sea salt (SS), coarse mass (CM), fine aerosol, total aerosol, total (aerosol + Rayleigh), and deciview (dv).

Site	State	Lat (°)	Lon (°)	Elev (m)	b_{ext_AS}	b_{ext_AN}	b_{ext_POM}	b_{ext_EC}	b_{ext_FD}	b_{ext_SS}	b_{ext_CM}	b_{ext_fine}	b_{ext_aer}	b_{ext_tot}	dv
10730023	AL	33.553	-86.815	177	17.24	5.22	17.98	11.44	0.83	0.15	4.66	52.88	57.54	68.54	19.25
10732003	AL	33.5	-86.924	180	14.88	4.36	16.15	5.59	1.15	0.09	4.03	42.22	46.26	57.26	17.45
11130003	AL	32.437	-85	25	13.70	4.00	18.84	6.54	0.52	0.06	3.76	43.66	47.42	58.42	17.65
20900034	AK	64.846	-147.727	132	15.04	4.62	14.86	7.59	0.35	0.19	-999	-999	-999	-999	-999
40139997	AZ	33.504	-112.096	355	3.69	3.92	15.84	8.14	1.45	0.23	11.27	33.27	44.54	55.54	17.14
40191028	AZ	32.295	-110.982	710	3.42	2.06	8.19	5.63	1.29	0.09	6.71	20.67	27.38	37.38	13.19
51190007	AR	34.756	-92.281	77	15.03	6.21	15.54	6.11	0.79	0.02	4.08	43.70	47.78	58.78	17.71
60190011	CA	36.785	-119.774	22	8.12	29.55	24.04	7.53	1.06	0.21	12.55	70.51	83.06	94.06	22.41
60290014	CA	35.356	-119.041	118	9.38	34.08	22.91	8.03	1.65	0.24	12.42	76.29	88.71	99.71	23.00
60371103	CA	34.067	-118.227	126	12.91	27.02	17.86	8.56	0.87	0.37	7.46	67.58	75.05	86.05	21.52
60658001	CA	34	-117.416	250	10.14	27.64	17.66	8.44	1.14	0.24	13.15	65.26	78.41	89.41	21.91
60670006	CA	38.614	-121.368	19	5.78	12.78	21.18	9.67	0.55	0.50	6.29	50.46	56.75	68.75	19.28
60731022	CA	32.79	-116.944	144	10.30	13.41	15.53	6.30	0.55	0.64	6.20	46.73	52.94	63.94	18.55
60850005	CA	37.348	-121.895	21	7.00	14.69	18.37	5.78	0.50	1.49	5.35	47.85	53.20	65.20	18.75
80010008	CO	39.828	-104.938	1574	4.79	9.87	14.41	9.81	1.61	0.15	7.60	40.64	48.24	58.24	17.62
80310026	CO	39.779	-105.005	22	4.52	9.67	12.40	7.15	1.27	0.11	7.75	35.12	42.87	52.87	16.65
81230008	CO	40.209	-104.824	1464	4.15	13.03	10.62	6.50	1.34	0.06	8.07	35.69	43.76	53.76	16.82
90090027	CT	41.301	-72.903	5	8.53	8.73	13.02	9.27	0.32	0.14	3.89	40.00	43.88	55.88	17.21
100032004	DE	39.739	-75.558	31	12.50	13.30	11.54	5.84	0.38	0.12	4.02	43.66	47.69	59.69	17.87
110010043	DC	38.922	-77.013	31	12.94	11.18	13.47	6.07	0.39	0.07	2.79	44.12	46.91	58.91	17.73
120110034	FL	26.054	-80.257	2.7	13.29	3.94	6.32	3.04	0.81	3.46	6.28	30.86	37.13	48.13	15.71
120573002	FL	27.966	-82.23	28	15.20	3.97	10.81	4.47	0.78	1.19	3.09	36.43	39.52	50.52	16.20
120730012	FL	30.44	-84.346	16	13.69	2.82	14.56	5.66	0.68	0.54	3.12	37.94	41.07	52.07	16.50
130210007	GA	32.778	-83.641	103	14.32	4.63	19.40	6.33	0.87	0.14	3.91	45.69	49.60	60.60	18.02
130690002	GA	31.513	-82.75	64	11.81	2.32	15.74	4.29	0.52	0.31	3.60	34.99	38.59	49.59	16.01
130890002	GA	33.688	-84.29	244	11.73	4.36	17.25	8.51	0.56	0.04	3.78	42.45	46.22	57.22	17.44
131150003	GA	34.261	-85.323	240	15.13	4.65	15.56	10.16	0.55	0.03	3.51	46.07	49.59	60.59	18.01
132150011	GA	32.429	-84.932	78	13.20	3.32	19.05	5.70	0.47	0.06	3.76	41.79	45.55	56.55	17.33
132450091	GA	33.433	-82.022	57	13.64	4.61	19.52	6.26	0.52	0.08	5.05	44.62	49.67	60.67	18.03
132950002	GA	34.979	-85.301	200	13.19	4.89	17.97	5.93	0.44	0.02	3.00	42.44	45.44	56.44	17.31
150030010	HI	21.324	-158.089	20	7.06	1.25	1.66	0.96	0.21	4.47	-999	-999	-999	-999	-999
160010010	ID	43.601	-116.348	853	2.84	11.04	15.15	5.85	0.81	0.06	1.98	35.75	37.73	48.73	15.84
170310057	IL	41.913	-87.723	185	12.49	20.11	12.67	6.51	0.56	0.21	4.78	52.56	57.34	69.34	19.36
170310076	IL	41.751	-87.714	188	12.96	19.88	12.66	7.03	0.48	0.13	4.86	53.14	58.00	70.00	19.46

Site	State	Lat (°)	Lon (°)	Elev (m)	bext_AS	bext_AN	bext_POM	bext_EC	bext_FD	bext_SS	bext_CM	bext_fine	bext_aer	bext_tot	dv
170314201	IL	42.14	-87.799	194	10.83	17.09	9.46	4.57	0.37	0.04	4.78	42.36	47.14	59.14	17.77
170434002	IL	41.771	-88.152	213	13.42	17.16	10.67	4.89	0.48	0.08	4.58	46.71	51.29	63.29	18.45
171190024	IL	38.701	-90.145	125	15.43	13.95	14.32	7.14	1.76	0.30	5.67	52.92	58.59	70.59	19.54
180190006	IN	38.278	-85.74	140	17.33	14.39	14.97	6.07	0.67	0.06	3.97	53.49	57.46	69.46	19.38
180372001	IN	38.391	-86.929	139	18.29	14.85	11.20	6.97	0.39	0.07	3.69	51.77	55.47	67.47	19.09
180650003	IN	40.009	-85.523	309	14.84	16.68	9.71	3.52	0.26	0.01	3.85	45.02	48.87	59.87	17.90
180890022	IN	41.607	-87.305	179	13.74	18.25	11.45	6.37	0.91	0.34	6.01	51.06	57.07	69.07	19.33
180970078	IN	39.811	-86.115	240	16.00	18.59	14.12	6.84	0.42	0.11	7.63	56.08	63.71	74.71	20.11
181630021	IN	38.013	-87.578	120	17.42	12.62	13.17	5.53	0.41	0.02	3.58	49.17	52.75	64.75	18.68
191630015	IA	41.53	-90.588	212	12.09	17.56	10.64	3.98	0.46	0.08	4.71	44.81	49.52	61.52	18.17
201730010	KS	37.702	-97.315	405	11.41	8.92	13.26	4.77	0.82	0.02	4.36	39.21	43.58	54.58	16.97
202090021	KS	39.117	-94.636	269	12.44	11.51	17.56	6.07	0.69	0.14	4.84	48.42	53.26	64.26	18.60
211110067	KY	38.229	-85.655	161	16.88	12.79	12.81	5.81	0.39	0.05	3.97	48.73	52.70	63.70	18.52
220330009	LA	30.462	-91.179	16	24.43	7.27	13.94	6.33	1.22	0.61	4.36	53.81	58.17	69.17	19.34
240053001	MD	39.311	-76.474	10	13.21	11.89	15.01	7.19	0.39	0.09	3.15	47.78	50.93	62.93	18.39
240330030	MD	39.055	-76.878	47	11.57	8.17	11.70	5.39	0.40	0.06	2.79	37.29	40.08	52.08	16.50
250130008	MA	42.194	-72.555	60	7.27	5.80	9.63	4.06	0.24	0.10	3.23	27.11	30.34	42.34	14.43
250250042	MA	42.329	-71.083	5	7.60	6.14	11.08	5.35	0.28	0.31	4.05	30.76	34.81	46.81	15.44
260810020	MI	42.984	-85.671	190	11.49	18.64	11.45	5.28	0.40	0.08	4.54	47.35	51.89	63.89	18.55
260910007	MI	41.996	-83.947	244	12.23	16.65	9.72	3.61	0.51	0.03	4.20	42.75	46.95	58.95	17.74
261630001	MI	42.229	-83.208	182	12.40	16.70	11.32	5.92	0.58	0.11	4.65	47.03	51.69	63.69	18.51
261630015	MI	42.303	-83.106	177	16.43	18.80	16.13	8.02	1.33	0.41	6.14	61.12	67.25	79.25	20.70
261630033	MI	42.307	-83.149	179	14.93	17.36	14.37	7.12	1.38	0.38	4.65	55.55	60.21	72.21	19.77
270031002	MN	45.138	-93.208	280	8.21	13.83	10.98	4.31	0.33	0.07	3.75	37.72	41.47	53.47	16.77
270530963	MN	44.954	-93.258	265	8.53	14.54	11.91	4.54	0.40	0.12	3.75	40.05	43.80	55.80	17.19
280490020	MS	32.329	-90.183	22	16.45	4.95	16.07	5.55	0.73	0.14	3.82	43.89	47.71	58.71	17.70
290990019	MO	38.449	-90.398	153	14.66	11.95	13.52	5.31	0.62	0.03	5.12	46.08	51.20	63.20	18.44
295100085	MO	38.657	-90.199	144	15.88	14.34	14.71	6.82	0.86	0.13	5.67	52.74	58.41	70.41	19.52
300490004	MT	46.85	-111.987	22	3.14	3.35	9.34	2.54	0.25	0.00	1.04	18.64	19.67	29.67	10.88
300930005	MT	46.003	-112.501	1697	2.61	6.23	20.73	10.58	0.63	0.05	1.27	40.84	42.11	52.11	16.51
310550019	NE	41.248	-95.973	347	11.01	13.27	9.92	3.61	0.57	0.02	6.60	38.40	45.00	56.00	17.23
320030540	NV	36.144	-115.079	542	3.03	3.01	15.52	7.73	1.69	0.13	4.02	31.12	35.14	46.14	15.29
320310016	NV	39.525	-119.808	1403	2.37	5.39	14.48	6.11	0.66	0.03	4.21	29.03	33.24	43.24	14.64
340070002	NJ	39.934	-75.125	22	12.38	12.51	13.72	7.92	0.75	2.36	4.05	49.63	53.68	65.68	18.82
340130003	NJ	40.721	-74.193	39	9.97	12.82	13.14	7.03	0.58	0.23	3.38	43.78	47.16	59.16	17.78
340230011	NJ	40.462	-74.429	19	10.13	10.12	11.49	5.15	0.31	0.07	3.79	37.27	41.06	53.06	16.69

Site	State	Lat (°)	Lon (°)	Elev (m)	bext_AS	bext_AN	bext_POM	bext_EC	bext_FD	bext_SS	bext_CM	bext_fine	bext_aer	bext_tot	dv
340273001	NJ	40.788	-74.676	256	9.23	7.37	8.99	3.13	0.23	0.03	3.46	28.97	32.43	44.43	14.91
340390004	NJ	40.641	-74.208	3	11.26	12.62	14.13	11.81	0.87	0.31	3.38	51.00	54.38	66.38	18.93
350010023	NM	35.134	-106.585	1578	2.82	2.39	9.80	4.91	0.76	0.02	2.19	20.69	22.88	32.88	11.90
360010005	NY	42.642	-73.755	30	8.24	8.04	11.64	5.01	0.49	0.09	1.93	33.51	35.44	47.44	15.57
360050110	NY	40.816	-73.902	14	10.05	12.41	12.83	8.23	0.45	0.15	3.93	44.11	48.05	60.05	17.93
360290005	NY	42.877	-78.81	186	11.86	11.65	11.25	5.10	0.49	0.05	3.00	40.41	43.41	55.41	17.12
360310003	NY	44.393	-73.859	584	6.69	2.94	6.06	1.17	0.22	0.03	2.23	17.11	19.34	30.34	11.10
360551007	NY	43.146	-77.548	146	11.77	11.45	9.99	4.48	0.31	0.09	2.54	38.10	40.64	52.64	16.61
360610134	NY	40.714	-73.995	5	10.35	13.30	17.06	10.41	0.53	0.15	3.93	51.80	55.73	67.73	19.13
360810124	NY	40.736	-73.822	13	9.90	11.46	11.52	6.00	0.39	0.23	3.75	39.50	43.25	55.25	17.09
361010003	NY	42.091	-77.21	490	10.51	6.69	7.46	2.26	0.17	0.00	2.77	27.09	29.86	40.86	14.08
370670022	NC	36.111	-80.227	279	11.93	4.81	13.52	4.84	0.27	0.01	2.17	35.38	37.55	48.55	15.80
371190041	NC	35.24	-80.786	223	11.64	5.90	15.67	5.92	0.43	0.03	2.41	39.58	41.99	52.99	16.68
371830014	NC	35.856	-78.574	92	11.59	4.89	15.61	5.35	0.36	0.08	2.53	37.89	40.42	52.42	16.57
380150003	ND	46.825	-100.768	548	7.84	9.59	7.59	2.29	0.48	0.01	4.44	27.80	32.23	43.23	14.64
390350038	OH	41.477	-81.682	186	17.43	17.33	13.31	6.31	1.47	0.86	3.39	56.70	60.09	72.09	19.75
390350060	OH	41.492	-81.678	197	16.52	18.14	13.63	8.42	1.05	0.32	3.39	58.08	61.47	73.47	19.94
390350065	OH	41.447	-81.662	244	15.81	18.48	13.75	9.55	1.96	0.71	3.39	60.27	63.66	75.66	20.24
390350076	OH	41.424	-81.648	218	14.53	17.21	12.90	6.23	0.59	0.04	3.39	51.50	54.90	66.90	19.01
390610040	OH	39.129	-84.504	213	16.76	14.13	12.44	6.32	0.34	0.02	3.49	50.02	53.51	64.51	18.64
390810017	OH	40.366	-80.616	264	22.58	13.68	14.79	7.70	0.76	0.14	4.99	59.64	64.64	75.64	20.23
390933002	OH	41.463	-82.114	182	13.96	14.96	10.49	4.40	0.38	0.04	2.43	44.24	46.67	58.67	17.69
391130038	OH	39.756	-84.199	220	15.53	16.73	13.67	6.43	0.42	0.06	2.94	52.84	55.78	66.78	18.99
391351001	OH	39.836	-84.72	22	14.93	17.15	9.65	4.33	0.25	0.01	3.09	46.32	49.41	60.41	17.99
391510017	OH	40.787	-81.394	334	16.22	15.29	14.64	6.50	0.82	0.81	4.05	54.29	58.34	69.34	19.36
391530023	OH	41.088	-81.542	313	19.08	25.27	14.50	11.33	0.37	0.09	4.54	70.65	75.19	86.19	21.54
401091037	OK	35.614	-97.475	344	11.89	7.73	10.90	3.85	0.75	0.02	6.53	35.14	41.68	52.68	16.62
401431127	OK	36.205	-95.977	193	12.24	7.45	12.76	5.21	0.74	0.07	5.53	38.48	44.01	55.01	17.05
410510080	OR	45.497	-122.603	86	6.56	8.55	16.54	6.50	0.29	0.45	2.39	38.90	41.29	53.29	16.73
420010001	PA	39.92	-77.31	241	12.75	9.82	9.96	3.34	0.22	0.01	2.70	36.10	38.81	49.81	16.06
420030008	PA	40.465	-79.961	312	16.84	10.92	14.19	7.05	0.41	0.79	1.96	50.18	52.15	63.15	18.43
420030064	PA	40.324	-79.868	279	29.36	10.82	19.89	14.26	0.43	2.83	2.33	77.58	79.91	90.91	22.07
420210011	PA	40.31	-78.915	455	17.60	6.90	12.68	7.13	0.42	0.18	2.40	44.91	47.30	58.30	17.63
420290100	PA	39.834	-75.768	91	12.53	15.28	11.29	4.42	0.37	0.10	3.88	43.98	47.86	59.86	17.89
420450002	PA	39.836	-75.372	1	12.37	11.89	12.34	6.06	0.88	0.18	4.19	43.72	47.90	59.90	17.90
420450109	PA	39.819	-75.414	0	12.56	12.12	11.98	8.29	0.42	0.14	4.02	45.52	49.55	61.55	18.17

Site	State	Lat (°)	Lon (°)	Elev (m)	bext_AS	bext_AN	bext_POM	bext_EC	bext_FD	bext_SS	bext_CM	bext_fine	bext_aer	bext_tot	dv
420710007	PA	40.047	-76.283	99	12.94	16.85	14.53	6.50	0.32	0.10	3.52	51.24	54.76	66.76	18.99
420710012	PA	40.044	-76.112	116	12.68	17.98	14.08	6.58	0.34	0.16	3.58	51.80	55.38	67.38	19.08
421010048	PA	39.991	-75.081	22	11.78	12.46	12.09	8.72	0.52	0.19	4.20	45.76	49.96	61.96	18.24
421010055	PA	39.923	-75.187	12	11.43	11.50	13.27	7.62	0.37	0.14	4.05	44.33	48.38	60.38	17.98
421255001	PA	40.445	-80.421	344	15.80	7.01	10.03	3.85	0.44	0.01	4.53	37.13	41.65	52.65	16.61
421290008	PA	40.305	-79.506	378	16.19	8.12	11.88	6.28	0.36	0.03	2.59	42.86	45.45	56.45	17.31
440071010	RI	41.842	-71.361	6	8.09	6.00	10.06	4.12	0.28	0.37	3.99	28.92	32.91	44.91	15.02
460990008	SD	43.548	-96.701	439	9.20	13.92	8.74	2.94	0.51	0.02	5.57	35.33	40.90	51.90	16.47
470931020	TN	36.019	-83.874	309	13.36	5.94	15.87	5.59	0.44	0.02	2.03	41.22	43.25	54.25	16.91
471570075	TN	35.152	-89.85	22	13.41	6.29	12.08	4.26	0.56	0.02	3.75	36.61	40.36	52.36	16.56
481130069	TX	32.82	-96.86	132	14.24	7.91	12.87	5.86	1.42	0.20	7.26	42.50	49.76	60.76	18.04
481410044	TX	31.766	-106.455	1128	4.65	2.53	10.95	6.67	2.07	0.12	3.68	26.98	30.66	40.66	14.03
482011039	TX	29.67	-95.129	9	23.08	6.81	10.13	4.48	1.16	1.55	10.26	47.21	57.47	68.47	19.24
482030002	TX	32.669	-94.168	90	17.12	3.10	15.30	4.33	0.78	0.12	4.14	40.74	44.88	55.88	17.21
490110004	UT	40.903	-111.884	1307	4.79	19.34	9.52	4.22	0.86	0.28	5.04	39.01	44.05	54.05	16.87
490353006	UT	40.736	-111.872	1309	4.68	19.39	11.43	5.30	0.91	0.33	5.53	42.04	47.57	57.57	17.50
490494001	UT	40.341	-111.714	1456	3.68	15.24	9.63	4.47	1.05	0.18	5.16	34.26	39.42	49.42	15.98
500070012	VT	44.48	-73.214	42	7.32	6.51	8.88	5.47	0.21	0.06	1.96	28.46	30.41	42.41	14.45
510870014	VA	37.556	-77.4	34	12.03	5.96	13.57	4.84	0.31	0.08	2.67	36.79	39.46	51.46	16.38
530330030	WA	47.597	-122.32	15	8.28	10.48	18.22	12.83	0.71	0.53	2.16	51.06	53.22	65.22	18.75
530330080	WA	47.568	-122.309	58	7.19	8.50	12.90	6.41	0.27	0.40	2.16	35.68	37.84	49.84	16.06
530530029	WA	47.186	-122.452	97	8.03	8.95	18.22	8.31	0.26	0.64	1.86	44.40	46.26	58.26	17.62
530770009	WA	46.598	-120.499	328	5.06	20.06	16.93	8.53	0.52	0.20	3.46	51.30	54.76	65.76	18.83
540390020	WV	38.346	-81.621	223.11	15.64	6.32	15.57	12.59	0.44	0.02	2.64	50.59	53.23	64.23	18.60
540511002	WV	39.916	-80.734	245	18.08	8.91	18.38	8.67	0.38	0.07	5.04	54.48	59.52	70.52	19.53
550090005	WI	44.507	-87.993	22	9.38	15.25	9.91	3.80	0.41	0.16	2.61	38.91	41.51	53.51	16.77
550270001	WI	43.466	-88.621	264	9.68	17.13	9.89	3.14	0.28	0.03	3.42	40.14	43.57	55.57	17.15
550790026	WI	43.061	-87.913	216	10.46	18.08	11.45	4.72	0.36	0.08	3.90	45.15	49.05	61.05	18.09
551198001	WI	45.207	-90.597	449	8.43	11.54	7.86	2.12	0.21	0.03	2.27	30.19	32.46	43.46	14.69
560210100	WY	41.182	-104.778	15	3.57	3.24	6.77	1.66	0.39	0.00	2.87	15.62	18.49	27.49	10.11

Appendix 4.4. 2016–2019 IMPROVE and CSN Annual Mean Light Extinction Coefficients Fraction

Table 4.4.1. IMPROVE 2016-2019 annual mean ambient reconstructed light extinction fraction (ratio of species extinction to aerosol extinction, 550 nm) for ammonium sulfate (AS), ammonium nitrate (AN), particulate organic matter (POM), elemental carbon (EC), fine dust (FD), sea salt (SS), coarse mass (CM).

Site	State	Lat (°)	Lon (°)	Elev (m)	AS fraction	AN fraction	POM fraction	EC fraction	FD fraction	SS fraction	CM fraction
ACAD	ME	44.377	-68.261	157	0.370	0.127	0.276	0.055	0.007	0.082	0.082
AGTI	CA	33.464	-116.971	507	0.261	0.201	0.235	0.070	0.023	0.044	0.167
BADL	SD	43.743	-101.941	736	0.315	0.156	0.312	0.055	0.028	0.005	0.130
BALD	AZ	34.058	-109.441	2508	0.248	0.064	0.409	0.083	0.052	0.008	0.137
BAND	NM	35.78	-106.266	1988	0.246	0.077	0.382	0.083	0.051	0.005	0.157
BIBE	TX	29.303	-103.178	1066	0.428	0.055	0.221	0.055	0.054	0.006	0.181
BIRM	AL	33.553	-86.815	175	0.313	0.095	0.289	0.160	0.017	0.022	0.104
BLIS	CA	38.976	-120.103	2130	0.170	0.061	0.555	0.087	0.026	0.007	0.094
BOAP	NM	33.869	-106.852	1389	0.221	0.077	0.341	0.086	0.060	0.011	0.205
BOLA	WY	42.847	-109.64	2296	0.192	0.066	0.532	0.078	0.035	0.005	0.093
BOND	IL	40.052	-88.373	263	0.314	0.382	0.159	0.053	0.007	0.008	0.076
BOWA	MN	47.947	-91.495	526	0.310	0.211	0.316	0.055	0.009	0.020	0.079
BRCA	UT	37.618	-112.174	2481	0.201	0.083	0.440	0.077	0.048	0.007	0.144
BRID	WY	42.975	-109.758	2626	0.175	0.065	0.564	0.078	0.030	0.004	0.084
BRIG	NJ	39.465	-74.449	5	0.313	0.195	0.216	0.063	0.007	0.066	0.140
BRIS	LA	30.109	-89.762	-7	0.477	0.107	0.195	0.063	0.021	0.051	0.086
BYIS		37.966	124.631	100	0.444	0.306	0.095	0.052	0.012	0.021	0.071
CABA	ME	43.833	-70.064	26	0.285	0.123	0.338	0.098	0.007	0.068	0.081
CABI	MT	47.955	-115.671	1441	0.148	0.062	0.588	0.115	0.019	0.008	0.062
CACO	MA	41.976	-70.024	49	0.315	0.127	0.210	0.045	0.006	0.176	0.120
CACR	AR	34.454	-94.143	683	0.429	0.132	0.270	0.057	0.021	0.011	0.080
CANY	UT	38.459	-109.821	1798	0.218	0.093	0.376	0.066	0.060	0.008	0.178
CAPI	UT	38.302	-111.293	1896	0.216	0.095	0.366	0.067	0.065	0.007	0.183
CAVE	NM	32.178	-104.444	1355	0.299	0.092	0.207	0.076	0.085	0.004	0.237
CEBL	KS	38.77	-99.763	665	0.290	0.226	0.234	0.047	0.030	0.005	0.168
CHAS	FL	28.748	-82.555	4	0.374	0.096	0.282	0.079	0.018	0.074	0.076
CHIR	AZ	32.009	-109.389	1554	0.254	0.057	0.263	0.056	0.073	0.009	0.288
COHU	GA	34.785	-84.627	735	0.409	0.127	0.305	0.067	0.011	0.009	0.072
CORI	WA	45.664	-121.001	178	0.164	0.336	0.233	0.054	0.028	0.021	0.164
CRLA	OR	42.896	-122.136	1996	0.129	0.047	0.660	0.113	0.013	0.011	0.028
CRMO	ID	43.46	-113.555	1817	0.130	0.142	0.498	0.076	0.031	0.010	0.113

Site	State	Lat (°)	Lon (°)	Elev (m)	AS fraction	AN fraction	POM fraction	EC fraction	FD fraction	SS fraction	CM fraction
DENA	AK	63.723	-148.967	658	0.279	0.043	0.481	0.061	0.013	0.037	0.087
DOME	CA	35.728	-118.138	927	0.191	0.101	0.363	0.061	0.039	0.008	0.238
DOSO	WV	39.105	-79.426	1182	0.474	0.151	0.242	0.063	0.009	0.006	0.056
EGBE	ON	44.231	-79.783	251	0.286	0.370	0.197	0.066	0.006	0.012	0.064
EVER	FL	25.391	-80.681	1	0.270	0.073	0.411	0.039	0.021	0.093	0.094
FCPC	WI	45.565	-88.808	564	0.293	0.327	0.248	0.057	0.007	0.013	0.057
FLAT	MT	47.773	-114.269	1580	0.155	0.067	0.593	0.094	0.016	0.005	0.071
FLTO	CO	39.915	-107.634	2593	0.200	0.060	0.516	0.060	0.046	0.005	0.114
FOPE	MT	48.308	-105.102	638	0.271	0.238	0.292	0.053	0.022	0.005	0.121
FRES	CA	36.782	-119.773	100	0.102	0.355	0.270	0.080	0.021	0.015	0.157
FRRE	MD	39.706	-79.012	767	0.464	0.170	0.223	0.072	0.007	0.006	0.057
GAMO	MT	46.826	-111.711	2387	0.172	0.071	0.584	0.077	0.023	0.004	0.069
GICL	NM	33.22	-108.235	1775	0.212	0.042	0.462	0.096	0.052	0.007	0.130
GLAC	MT	48.511	-113.997	975	0.161	0.111	0.499	0.100	0.023	0.005	0.101
GRBA	NV	39.005	-114.216	2065	0.197	0.057	0.417	0.067	0.068	0.009	0.186
GRCA	AZ	36.066	-112.154	2164	0.268	0.090	0.361	0.073	0.074	0.013	0.121
GRGU	NH	44.308	-71.218	453	0.391	0.091	0.341	0.067	0.008	0.016	0.087
GRR1	MN	43.937	-91.405	370	0.253	0.382	0.212	0.058	0.009	0.011	0.076
GRSA	CO	37.725	-105.519	2498	0.220	0.069	0.412	0.065	0.079	0.004	0.151
GRSM	TN	35.633	-83.942	810	0.417	0.121	0.308	0.068	0.011	0.009	0.068
GUMO	TX	31.833	-104.809	1672	0.298	0.084	0.213	0.056	0.105	0.006	0.239
HACR	HI	20.758	-156.248	2158	0.632	0.083	0.080	0.020	0.021	0.086	0.079
HAVO	HI	19.431	-155.258	1258	0.760	0.032	0.046	0.010	0.005	0.104	0.043
HECA	OR	44.97	-116.844	655	0.138	0.169	0.490	0.073	0.022	0.007	0.100
HEGL	MO	36.614	-92.922	404	0.371	0.183	0.268	0.066	0.017	0.007	0.088
HOOV	CA	38.088	-119.177	2560	0.169	0.057	0.548	0.079	0.042	0.007	0.098
IKBA	AZ	34.34	-111.683	1297	0.222	0.089	0.318	0.073	0.068	0.015	0.214
ISLE	MI	47.46	-88.149	182	0.342	0.215	0.284	0.056	0.008	0.019	0.076
JARB	NV	41.893	-115.426	1869	0.146	0.042	0.474	0.069	0.076	0.008	0.186
JARI	VA	37.627	-79.512	289	0.375	0.122	0.329	0.104	0.009	0.007	0.054
JOSH	CA	34.07	-116.389	1235	0.226	0.166	0.254	0.061	0.051	0.018	0.225
KAIS	CA	37.221	-119.155	2597	0.193	0.100	0.449	0.073	0.034	0.007	0.144
KALM	OR	42.552	-124.059	80	0.167	0.056	0.549	0.093	0.007	0.072	0.057
KPBO	AK	60.012	-151.711	5	0.234	0.066	0.183	0.031	0.014	0.201	0.273
LABE	CA	41.712	-121.507	1459	0.124	0.051	0.627	0.121	0.016	0.007	0.055
LASU	IA	40.693	-92.006	229	0.279	0.335	0.182	0.053	0.012	0.007	0.132

Site	State	Lat (°)	Lon (°)	Elev (m)	AS fraction	AN fraction	POM fraction	EC fraction	FD fraction	SS fraction	CM fraction
LAVO	CA	40.54	-121.577	1732	0.124	0.051	0.643	0.095	0.016	0.008	0.064
LIGO	NC	35.972	-81.933	968	0.400	0.088	0.356	0.079	0.009	0.008	0.061
LOND	NH	42.862	-71.38	124	0.290	0.150	0.337	0.111	0.008	0.027	0.078
LOST	ND	48.642	-102.402	696	0.288	0.268	0.221	0.061	0.019	0.008	0.136
LTCC	CA	38.925	-119.98	1935	0.116	0.056	0.510	0.129	0.030	0.007	0.152
LYEB	VT	42.956	-72.91	882	0.370	0.200	0.282	0.066	0.008	0.013	0.062
MACA	KY	37.132	-86.148	235	0.427	0.201	0.236	0.065	0.008	0.007	0.056
MAKA	WA	48.298	-124.625	480	0.297	0.134	0.301	0.044	0.005	0.161	0.059
MAVI	MA	41.331	-70.785	2	0.272	0.135	0.159	0.038	0.006	0.190	0.201
MEAD	AZ	36.019	-114.068	902	0.218	0.072	0.276	0.056	0.095	0.013	0.270
MELA	MT	48.487	-104.476	606	0.277	0.260	0.241	0.051	0.030	0.006	0.134
MEVE	CO	37.198	-108.491	2172	0.269	0.084	0.359	0.066	0.060	0.006	0.155
MING	MO	36.972	-90.143	111	0.348	0.173	0.261	0.074	0.020	0.007	0.117
MOHO	OR	45.289	-121.784	1531	0.254	0.123	0.408	0.070	0.021	0.045	0.081
MOMO	CT	41.821	-73.297	521	0.344	0.193	0.299	0.078	0.008	0.016	0.062
MONT	MT	47.122	-113.154	1282	0.105	0.032	0.691	0.083	0.021	0.003	0.066
MOOS	ME	45.126	-67.266	77	0.379	0.112	0.302	0.056	0.007	0.076	0.068
MORA	WA	46.758	-122.124	439	0.290	0.087	0.421	0.087	0.008	0.039	0.068
MOZI	CO	40.538	-106.677	3243	0.233	0.082	0.457	0.071	0.038	0.005	0.114
NEBR	NE	41.889	-100.339	883	0.298	0.235	0.264	0.050	0.023	0.004	0.126
NOAB	WY	44.745	-109.382	2482	0.199	0.075	0.498	0.067	0.034	0.004	0.122
NOCA	WA	48.732	-121.065	568	0.234	0.062	0.551	0.074	0.008	0.019	0.052
NOCH	MT	45.65	-106.557	1283	0.237	0.095	0.440	0.065	0.027	0.005	0.131
NOGA	AZ	31.337	-110.937	1172	0.078	0.044	0.330	0.194	0.068	0.022	0.264
OKEF	GA	30.74	-82.128	48	0.399	0.088	0.290	0.064	0.018	0.055	0.087
OLYM	WA	48.007	-122.973	599	0.272	0.163	0.368	0.071	0.006	0.069	0.052
ORPI	AZ	31.951	-112.802	504	0.233	0.090	0.210	0.049	0.088	0.035	0.296
OWVL	CA	37.361	-118.331	1234	0.154	0.049	0.429	0.075	0.071	0.005	0.216
PACK	NH	42.862	-71.879	695	0.359	0.159	0.312	0.079	0.008	0.016	0.067
PASA	WA	48.388	-119.927	1627	0.170	0.084	0.553	0.116	0.015	0.008	0.055
PEFO	AZ	35.078	-109.769	1766	0.209	0.069	0.343	0.095	0.071	0.008	0.206
PENO	ME	44.948	-68.648	45	0.289	0.106	0.337	0.106	0.010	0.042	0.110
PHOE	AZ	33.504	-112.096	342	0.091	0.094	0.326	0.149	0.055	0.016	0.268
PINN	CA	36.483	-121.157	302	0.215	0.150	0.327	0.075	0.016	0.075	0.142
PMRF	VT	44.528	-72.869	401	0.374	0.158	0.313	0.073	0.007	0.016	0.059
PORE	CA	38.122	-122.909	97	0.185	0.145	0.165	0.040	0.006	0.332	0.128

Site	State	Lat (°)	Lon (°)	Elev (m)	AS fraction	AN fraction	POM fraction	EC fraction	FD fraction	SS fraction	CM fraction
PRIS	ME	46.696	-68.033	165	0.302	0.098	0.310	0.092	0.017	0.032	0.149
PUSO	WA	47.57	-122.312	97	0.195	0.231	0.314	0.128	0.010	0.054	0.068
QUCI	OH	39.943	-81.338	366	0.416	0.214	0.217	0.075	0.008	0.006	0.064
RAFA	CA	34.734	-120.007	956	0.258	0.161	0.261	0.042	0.028	0.057	0.192
REDW	CA	41.561	-124.084	243	0.218	0.072	0.285	0.035	0.005	0.306	0.080
ROMA	SC	32.941	-79.657	4	0.397	0.094	0.258	0.060	0.014	0.089	0.088
ROMO	CO	40.278	-105.546	2760	0.208	0.113	0.419	0.076	0.041	0.004	0.140
SACR	NM	33.46	-104.404	1072	0.257	0.132	0.210	0.058	0.054	0.007	0.282
SAGA	CA	34.297	-118.028	1791	0.224	0.219	0.296	0.067	0.032	0.013	0.149
SAGO	CA	34.194	-116.913	1726	0.202	0.245	0.288	0.067	0.030	0.012	0.156
SAGU	AZ	32.175	-110.737	941	0.202	0.083	0.260	0.075	0.091	0.016	0.272
SAMA	FL	30.093	-84.161	7	0.413	0.092	0.262	0.058	0.018	0.081	0.077
SAPE	NM	36.014	-106.845	2935	0.270	0.080	0.379	0.071	0.062	0.007	0.131
SAWE	AZ	32.249	-111.218	714	0.171	0.085	0.229	0.075	0.104	0.015	0.321
SAWT	ID	44.171	-114.927	1990	0.093	0.028	0.699	0.102	0.020	0.003	0.056
SENE	MI	46.289	-85.95	214	0.352	0.253	0.261	0.058	0.007	0.013	0.057
SEQU	CA	36.489	-118.829	519	0.183	0.151	0.423	0.065	0.025	0.008	0.145
SHEN	VA	38.523	-78.435	1079	0.418	0.185	0.262	0.063	0.008	0.008	0.057
SHMI	CO	37.304	-107.484	2351	0.195	0.067	0.362	0.066	0.091	0.004	0.215
SHRO	NC	35.394	-82.774	1617	0.423	0.120	0.305	0.061	0.012	0.011	0.067
SIME	AK	55.326	-160.506	57	0.366	0.055	0.053	0.022	0.004	0.407	0.094
SIPS	AL	34.343	-87.339	286	0.389	0.133	0.315	0.077	0.014	0.010	0.062
SNPA	WA	47.422	-121.426	1049	0.242	0.176	0.413	0.078	0.010	0.037	0.044
STAR	OR	45.225	-118.513	1259	0.167	0.140	0.464	0.107	0.021	0.013	0.090
STIL	OK	35.751	-94.67	300	0.345	0.182	0.284	0.074	0.017	0.010	0.089
SULA	MT	45.86	-114	1895	0.139	0.047	0.638	0.078	0.018	0.005	0.075
SWAN	NC	35.451	-76.207	-3	0.377	0.124	0.247	0.051	0.011	0.096	0.095
SYCA	AZ	35.164	-111.982	2046	0.136	0.059	0.314	0.093	0.157	0.007	0.233
TALL	KS	38.434	-96.56	390	0.303	0.240	0.255	0.066	0.018	0.006	0.113
THBA	WY	44.663	-105.287	1195	0.233	0.115	0.387	0.071	0.038	0.003	0.154
THRO	ND	46.895	-103.378	852	0.293	0.219	0.271	0.056	0.023	0.005	0.134
THSI	OR	44.291	-122.043	885	0.175	0.050	0.571	0.066	0.021	0.015	0.103
TONT	AZ	33.655	-111.107	775	0.213	0.068	0.315	0.075	0.073	0.013	0.243
TRCR	AK	62.315	-150.316	155	0.300	0.053	0.424	0.054	0.011	0.046	0.112
TRIN	CA	40.786	-122.805	1014	0.135	0.060	0.631	0.088	0.014	0.016	0.056
ULBE	MT	47.582	-108.72	891	0.247	0.140	0.420	0.061	0.021	0.004	0.108

Site	State	Lat (°)	Lon (°)	Elev (m)	AS fraction	AN fraction	POM fraction	EC fraction	FD fraction	SS fraction	CM fraction
UPBU	AR	35.826	-93.203	722	0.387	0.163	0.281	0.062	0.018	0.009	0.080
VIIS	VI	18.336	-64.796	51	0.253	0.070	0.073	0.014	0.062	0.278	0.251
VILA	IA	40.969	-95.045	371	0.272	0.322	0.187	0.057	0.015	0.007	0.142
VOYA	MN	48.413	-92.829	429	0.290	0.199	0.337	0.061	0.010	0.020	0.084
WEMI	CO	37.659	-107.8	2750	0.217	0.056	0.460	0.090	0.048	0.007	0.122
WHIT	NM	33.469	-105.535	2063	0.301	0.070	0.292	0.061	0.058	0.009	0.209
WHPA	WA	46.624	-121.388	1827	0.188	0.072	0.596	0.072	0.010	0.015	0.047
WHPE	NM	36.585	-105.452	3366	0.264	0.079	0.366	0.100	0.068	0.006	0.117
WHRI	CO	39.154	-106.821	3413	0.260	0.094	0.385	0.077	0.065	0.009	0.111
WICA	SD	43.558	-103.484	1296	0.260	0.130	0.388	0.071	0.030	0.005	0.117
WIMO	OK	34.732	-98.713	509	0.344	0.184	0.240	0.058	0.028	0.009	0.137
YELL	WY	44.565	-110.4	2442	0.175	0.079	0.546	0.081	0.023	0.007	0.088
YOSE	CA	37.713	-119.706	1603	0.094	0.050	0.686	0.081	0.014	0.004	0.071
ZICA	UT	37.198	-113.151	1215	0.211	0.066	0.317	0.068	0.089	0.009	0.240

Table 4.4.2. CSN 2016-2019 annual mean ambient reconstructed light extinction fraction (ratio of species extinction to aerosol extinction, 550 nm) for ammonium sulfate (AS), ammonium nitrate (AN), particulate organic matter (POM), elemental carbon (EC), fine dust (FD), sea salt (SS), coarse mass (CM).

Site	State	Lat (°)	Lon (°)	Elev (m)	AS fraction	AN fraction	POM fraction	EC fraction	FD fraction	SS fraction	CM fraction
10730023	AL	33.553	-86.815	177	0.300	0.091	0.313	0.199	0.015	0.003	0.081
10732003	AL	33.5	-86.924	180	0.322	0.094	0.349	0.121	0.025	0.002	0.087
11130003	AL	32.437	-85	25	0.289	0.085	0.397	0.138	0.011	0.001	0.079
20900034	AK	64.846	-147.727	132	-999	-999	-999	-999	-999	-999	-999
40139997	AZ	33.504	-112.096	355	0.083	0.088	0.356	0.183	0.033	0.005	0.253
40191028	AZ	32.295	-110.982	710	0.125	0.075	0.299	0.206	0.047	0.004	0.245
51190007	AR	34.756	-92.281	77	0.315	0.130	0.325	0.128	0.017	0.001	0.085
60190011	CA	36.785	-119.774	22	0.098	0.356	0.290	0.091	0.013	0.003	0.151
60290014	CA	35.356	-119.041	118	0.106	0.384	0.258	0.091	0.019	0.003	0.140
60371103	CA	34.067	-118.227	126	0.172	0.360	0.238	0.114	0.012	0.005	0.099
60658001	CA	34	-117.416	250	0.129	0.353	0.225	0.108	0.015	0.003	0.168
60670006	CA	38.614	-121.368	19	0.102	0.225	0.373	0.170	0.010	0.009	0.111
60731022	CA	32.79	-116.944	144	0.195	0.253	0.293	0.119	0.011	0.012	0.117
60850005	CA	37.348	-121.895	21	0.132	0.276	0.345	0.109	0.010	0.028	0.101
80010008	CO	39.828	-104.938	1574	0.099	0.205	0.299	0.203	0.033	0.003	0.158
80310026	CO	39.779	-105.005	22	0.105	0.226	0.289	0.167	0.030	0.003	0.181
81230008	CO	40.209	-104.824	1464	0.095	0.298	0.243	0.148	0.031	0.001	0.184
90090027	CT	41.301	-72.903	5	0.194	0.199	0.297	0.211	0.007	0.003	0.089
100032004	DE	39.739	-75.558	31	0.262	0.279	0.242	0.122	0.008	0.003	0.084
110010043	DC	38.922	-77.013	31	0.276	0.238	0.287	0.129	0.008	0.001	0.059
120110034	FL	26.054	-80.257	2.7	0.358	0.106	0.170	0.082	0.022	0.093	0.169
120573002	FL	27.966	-82.23	28	0.385	0.101	0.274	0.113	0.020	0.030	0.078
120730012	FL	30.44	-84.346	16	0.333	0.069	0.355	0.138	0.017	0.013	0.076
130210007	GA	32.778	-83.641	103	0.289	0.093	0.391	0.128	0.018	0.003	0.079
130690002	GA	31.513	-82.75	64	0.306	0.060	0.408	0.111	0.013	0.008	0.093
130890002	GA	33.688	-84.29	244	0.254	0.094	0.373	0.184	0.012	0.001	0.082
131150003	GA	34.261	-85.323	240	0.305	0.094	0.314	0.205	0.011	0.001	0.071
132150011	GA	32.429	-84.932	78	0.290	0.073	0.418	0.125	0.010	0.001	0.083
132450091	GA	33.433	-82.022	57	0.275	0.093	0.393	0.126	0.011	0.002	0.102
132950002	GA	34.979	-85.301	200	0.290	0.108	0.395	0.131	0.010	0.001	0.066
150030010	HI	21.324	-158.089	20	-999	-999	-999	-999	-999	-999	-999
160010010	ID	43.601	-116.348	853	0.075	0.293	0.401	0.155	0.022	0.002	0.053
170310057	IL	41.913	-87.723	185	0.218	0.351	0.221	0.114	0.010	0.004	0.083
170310076	IL	41.751	-87.714	188	0.224	0.343	0.218	0.121	0.008	0.002	0.084

Site	State	Lat (°)	Lon (°)	Elev (m)	AS fraction	AN fraction	POM fraction	EC fraction	FD fraction	SS fraction	CM fraction
170314201	IL	42.14	-87.799	194	0.230	0.363	0.201	0.097	0.008	0.001	0.102
170434002	IL	41.771	-88.152	213	0.262	0.335	0.208	0.095	0.009	0.002	0.089
171190024	IL	38.701	-90.145	125	0.263	0.238	0.245	0.122	0.030	0.005	0.097
180190006	IN	38.278	-85.74	140	0.302	0.251	0.261	0.106	0.012	0.001	0.069
180372001	IN	38.391	-86.929	139	0.330	0.268	0.202	0.126	0.007	0.001	0.067
180650003	IN	40.009	-85.523	309	0.304	0.341	0.199	0.072	0.005	0.000	0.079
180890022	IN	41.607	-87.305	179	0.241	0.320	0.201	0.112	0.016	0.006	0.105
180970078	IN	39.811	-86.115	240	0.251	0.292	0.222	0.107	0.007	0.002	0.120
181630021	IN	38.013	-87.578	120	0.330	0.239	0.250	0.105	0.008	0.000	0.068
191630015	IA	41.53	-90.588	212	0.244	0.355	0.215	0.080	0.009	0.002	0.095
201730010	KS	37.702	-97.315	405	0.262	0.205	0.304	0.110	0.019	0.001	0.100
202090021	KS	39.117	-94.636	269	0.234	0.216	0.330	0.114	0.013	0.003	0.091
211110067	KY	38.229	-85.655	161	0.320	0.243	0.243	0.110	0.008	0.001	0.075
220330009	LA	30.462	-91.179	16	0.420	0.125	0.240	0.109	0.021	0.011	0.075
240053001	MD	39.311	-76.474	10	0.260	0.233	0.295	0.141	0.008	0.002	0.062
240330030	MD	39.055	-76.878	47	0.289	0.204	0.292	0.134	0.010	0.002	0.070
250130008	MA	42.194	-72.555	60	0.240	0.191	0.318	0.134	0.008	0.003	0.106
250250042	MA	42.329	-71.083	5	0.218	0.176	0.318	0.154	0.008	0.009	0.116
260810020	MI	42.984	-85.671	190	0.222	0.359	0.221	0.102	0.008	0.002	0.088
260910007	MI	41.996	-83.947	244	0.260	0.355	0.207	0.077	0.011	0.001	0.090
261630001	MI	42.229	-83.208	182	0.240	0.323	0.219	0.115	0.011	0.002	0.090
261630015	MI	42.303	-83.106	177	0.244	0.280	0.240	0.119	0.020	0.006	0.091
261630033	MI	42.307	-83.149	179	0.248	0.288	0.239	0.118	0.023	0.006	0.077
270031002	MN	45.138	-93.208	280	0.198	0.333	0.265	0.104	0.008	0.002	0.090
270530963	MN	44.954	-93.258	265	0.195	0.332	0.272	0.104	0.009	0.003	0.086
280490020	MS	32.329	-90.183	22	0.345	0.104	0.337	0.116	0.015	0.003	0.080
290990019	MO	38.449	-90.398	153	0.286	0.233	0.264	0.104	0.012	0.001	0.100
295100085	MO	38.657	-90.199	144	0.272	0.246	0.252	0.117	0.015	0.002	0.097
300490004	MT	46.85	-111.987	22	0.160	0.170	0.475	0.129	0.013	0.000	0.053
300930005	MT	46.003	-112.501	1697	0.062	0.148	0.492	0.251	0.015	0.001	0.030
310550019	NE	41.248	-95.973	347	0.245	0.295	0.220	0.080	0.013	0.000	0.147
320030540	NV	36.144	-115.079	542	0.086	0.086	0.442	0.220	0.048	0.004	0.115
320310016	NV	39.525	-119.808	1403	0.071	0.162	0.436	0.184	0.020	0.001	0.127
340070002	NJ	39.934	-75.125	22	0.231	0.233	0.256	0.148	0.014	0.044	0.075
340130003	NJ	40.721	-74.193	39	0.212	0.272	0.279	0.149	0.012	0.005	0.072
340230011	NJ	40.462	-74.429	19	0.247	0.246	0.280	0.125	0.008	0.002	0.092

Site	State	Lat (°)	Lon (°)	Elev (m)	AS fraction	AN fraction	POM fraction	EC fraction	FD fraction	SS fraction	CM fraction
340273001	NJ	40.788	-74.676	256	0.285	0.227	0.277	0.096	0.007	0.001	0.107
340390004	NJ	40.641	-74.208	3	0.207	0.232	0.260	0.217	0.016	0.006	0.062
350010023	NM	35.134	-106.585	1578	0.123	0.105	0.428	0.215	0.033	0.001	0.096
360010005	NY	42.642	-73.755	30	0.232	0.227	0.328	0.142	0.014	0.003	0.055
360050110	NY	40.816	-73.902	14	0.209	0.258	0.267	0.171	0.009	0.003	0.082
360290005	NY	42.877	-78.81	186	0.273	0.268	0.259	0.117	0.011	0.001	0.069
360310003	NY	44.393	-73.859	584	0.346	0.152	0.314	0.061	0.011	0.001	0.115
360551007	NY	43.146	-77.548	146	0.290	0.282	0.246	0.110	0.008	0.002	0.062
360610134	NY	40.714	-73.995	5	0.186	0.239	0.306	0.187	0.010	0.003	0.071
360810124	NY	40.736	-73.822	13	0.229	0.265	0.266	0.139	0.009	0.005	0.087
361010003	NY	42.091	-77.21	490	0.352	0.224	0.250	0.076	0.006	0.000	0.093
370670022	NC	36.111	-80.227	279	0.318	0.128	0.360	0.129	0.007	0.000	0.058
371190041	NC	35.24	-80.786	223	0.277	0.140	0.373	0.141	0.010	0.001	0.058
371830014	NC	35.856	-78.574	92	0.287	0.121	0.386	0.133	0.009	0.002	0.063
380150003	ND	46.825	-100.768	548	0.243	0.298	0.235	0.071	0.015	0.000	0.138
390350038	OH	41.477	-81.682	186	0.290	0.288	0.221	0.105	0.025	0.014	0.057
390350060	OH	41.492	-81.678	197	0.269	0.295	0.222	0.137	0.017	0.005	0.055
390350065	OH	41.447	-81.662	244	0.248	0.290	0.216	0.150	0.031	0.011	0.053
390350076	OH	41.424	-81.648	218	0.265	0.314	0.235	0.114	0.011	0.001	0.062
390610040	OH	39.129	-84.504	213	0.313	0.264	0.233	0.118	0.006	0.001	0.065
390810017	OH	40.366	-80.616	264	0.349	0.212	0.229	0.119	0.012	0.002	0.077
390933002	OH	41.463	-82.114	182	0.299	0.321	0.225	0.094	0.008	0.001	0.052
391130038	OH	39.756	-84.199	220	0.278	0.300	0.245	0.115	0.008	0.001	0.053
391351001	OH	39.836	-84.72	22	0.302	0.347	0.195	0.088	0.005	0.000	0.063
391510017	OH	40.787	-81.394	334	0.278	0.262	0.251	0.112	0.014	0.014	0.069
391530023	OH	41.088	-81.542	313	0.254	0.336	0.193	0.151	0.005	0.001	0.060
401091037	OK	35.614	-97.475	344	0.285	0.185	0.262	0.092	0.018	0.001	0.157
401431127	OK	36.205	-95.977	193	0.278	0.169	0.290	0.118	0.017	0.002	0.126
410510080	OR	45.497	-122.603	86	0.159	0.207	0.401	0.158	0.007	0.011	0.058
420010001	PA	39.92	-77.31	241	0.329	0.253	0.257	0.086	0.006	0.000	0.070
420030008	PA	40.465	-79.961	312	0.323	0.209	0.272	0.135	0.008	0.015	0.038
420030064	PA	40.324	-79.868	279	0.367	0.135	0.249	0.178	0.005	0.035	0.029
420210011	PA	40.31	-78.915	455	0.372	0.146	0.268	0.151	0.009	0.004	0.051
420290100	PA	39.834	-75.768	91	0.262	0.319	0.236	0.092	0.008	0.002	0.081
420450002	PA	39.836	-75.372	1	0.258	0.248	0.258	0.126	0.018	0.004	0.087
420450109	PA	39.819	-75.414	0	0.254	0.245	0.242	0.167	0.009	0.003	0.081

Site	State	Lat (°)	Lon (°)	Elev (m)	AS fraction	AN fraction	POM fraction	EC fraction	FD fraction	SS fraction	CM fraction
420710007	PA	40.047	-76.283	99	0.236	0.308	0.265	0.119	0.006	0.002	0.064
420710012	PA	40.044	-76.112	116	0.229	0.325	0.254	0.119	0.006	0.003	0.065
421010048	PA	39.991	-75.081	22	0.236	0.249	0.242	0.175	0.011	0.004	0.084
421010055	PA	39.923	-75.187	12	0.236	0.238	0.274	0.157	0.008	0.003	0.084
421255001	PA	40.445	-80.421	344	0.379	0.168	0.241	0.092	0.011	0.000	0.109
421290008	PA	40.305	-79.506	378	0.356	0.179	0.262	0.138	0.008	0.001	0.057
440071010	RI	41.842	-71.361	6	0.246	0.182	0.306	0.125	0.009	0.011	0.121
460990008	SD	43.548	-96.701	439	0.225	0.340	0.214	0.072	0.012	0.001	0.136
470931020	TN	36.019	-83.874	309	0.309	0.137	0.367	0.129	0.010	0.001	0.047
471570075	TN	35.152	-89.85	22	0.332	0.156	0.299	0.106	0.014	0.000	0.093
481130069	TX	32.82	-96.86	132	0.286	0.159	0.259	0.118	0.029	0.004	0.146
481410044	TX	31.766	-106.455	1128	0.152	0.083	0.357	0.217	0.067	0.004	0.120
482011039	TX	29.67	-95.129	9	0.402	0.118	0.176	0.078	0.020	0.027	0.179
482030002	TX	32.669	-94.168	90	0.381	0.069	0.341	0.096	0.017	0.003	0.092
490110004	UT	40.903	-111.884	1307	0.109	0.439	0.216	0.096	0.020	0.006	0.114
490353006	UT	40.736	-111.872	1309	0.098	0.408	0.240	0.112	0.019	0.007	0.116
490494001	UT	40.341	-111.714	1456	0.093	0.387	0.244	0.114	0.027	0.005	0.131
500070012	VT	44.48	-73.214	42	0.241	0.214	0.292	0.180	0.007	0.002	0.064
510870014	VA	37.556	-77.4	34	0.305	0.151	0.344	0.123	0.008	0.002	0.068
530330030	WA	47.597	-122.32	15	0.156	0.197	0.342	0.241	0.013	0.010	0.041
530330080	WA	47.568	-122.309	58	0.190	0.225	0.341	0.169	0.007	0.011	0.057
530530029	WA	47.186	-122.452	97	0.174	0.193	0.394	0.180	0.006	0.014	0.040
530770009	WA	46.598	-120.499	328	0.092	0.366	0.309	0.156	0.010	0.004	0.063
540390020	WV	38.346	-81.621	223.11	0.294	0.119	0.293	0.237	0.008	0.000	0.050
540511002	WV	39.916	-80.734	245	0.304	0.150	0.309	0.146	0.006	0.001	0.085
550090005	WI	44.507	-87.993	22	0.226	0.367	0.239	0.092	0.010	0.004	0.063
550270001	WI	43.466	-88.621	264	0.222	0.393	0.227	0.072	0.006	0.001	0.079
550790026	WI	43.061	-87.913	216	0.213	0.369	0.234	0.096	0.007	0.002	0.079
551198001	WI	45.207	-90.597	449	0.260	0.356	0.242	0.065	0.007	0.001	0.070
560210100	WY	41.182	-104.778	15	0.193	0.175	0.366	0.090	0.021	0.000	0.155