

README.TXT

ACADIA NATIONAL PARK VISIBILITY DATA

This disk contains files in ASCII format pertaining to the study of visibility at Acadia National Park by the State of Maine and the National Park Service.

The following files contain pollutant and visibility data from Acadia, and sulfate data from Maine and other northeastern states. Acadia particulate data is in ug/m3 and SO2 and O3 data in ppm. Data from other Maine and Northeastern sites include sulfate in ug/m3 and visual range (VR,SVR) in kilometers.

DATA1983.PRN	DATA1984.PRN	DATA1985.PRN
DATA1986.PRN	DATA1987.PRN	DATA1988.PRN

Total fine particle ($\leq 2.5 \mu m$) information for Acadia from 1984 to 1988.

PMFINE.PRN

Standard visual range data for the Northeast from 1983 to 1989 including: Acadia National Park, White Mountains National Forest, Green Mountains National Forest, and Brigantine National Wildlife Refuge.

NESVR.PRN

Files containing Isle Au Haut Meteorological data from the automated station from October 1987 to April 1989. The following files contain hourly data by month.

OCT87.TXT	NOV87.TXT	DEC87.TXT	JAN88.TXT
FEB88.TXT	MAR88.TXT	APR88.TXT	MAY88.TXT
JUN88.TXT	JUL88.TXT	AUG88.TXT	OCT88.TXT
NOV88.TXT	DEC88.TXT	JAN89.TXT	FEB89.TXT
MAR89.TXT	APR89.TXT		

Files contain data in the format:

DATA	HOUR	RGAGE (IN)	WNSPD MPH	WNDIR (DEG)	ATEMP (DEGF)	FTEMP (DEGF)	RHUM (%)
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Note: FTEMP is fuel temperature.

Standard Visual Range data from Acadia from 1979 to 1989.

ACADISVR.PRN

Particle data from Atlantic City, New Jersey for two sites, 07 and 61, for years 1986, 1987, and 1988. This data includes TSP, SO4, and NO3 and may be compared with Standard Visual Range data from Brigantine NWR.

NJAC0786.PRN	NJAC0787.PRN	NJAC0788.PRN
NJAC6186.PRN	NJAC6187.PRN	NJAC6188.PRN

Standard Visual Range Data collected by automatic camera at Brigantine National Wildlife Refuge in New Jersey.

BRIGASVR.PRN

SULFATE VALUES ARE FROM 24 HOUR TSP SAMPLES EXCEPT VERMONT AND NPS SAMPLES
VERMONT SAMPLES ARE FROM 24 HOUR PM-10 WITH QUARTZ FILTERS AND THE NPS SAMPLES ARE 24 HOUR FINE (<2.5 UM) AMMONIUM SULFATE
RUMFOLD AND MADAWASKA SITES ARE IN VALLEYS WHERE PAPER MILLS EMIT PRIMARY SULFATE
NH VISUAL RANGE IS FROM AN AUTOMATIC CAMERA AT THE WHITE MOUNTAIN NATIONAL FOREST
VT VISUAL RANGE IS FROM AN AUTOMATIC CAMERA AT THE LYE BROOK WILDERNESS AREA
NJ VISUAL RANGE IS FROM AN AUTOMATIC CAMERA AT THE BRIGANTINE NATIONAL WILDLIFE REFUGE
ACADIA VISUAL RANGE IS FROM A TRANSMISSOMETER AT MCFARLAND HILL ON MT DESERT ISLAND

[illegible]

PM FINE . PRN

ACADIA PARTICLES <=2.5 UM
YEAR JDAY PM-FINE

1985	1	3
1985	2	
1985	3	
1985	4	
1985	5	
1985	6	
1985	7	
1985	8	
1985	9	
1985	10	
1985	11	
1985	12	
1985	13	
1985	14	
1985	15	
1985	16	
1985	17	
1985	18	
1985	19	
1985	20	
1985	21	
1985	22	
1985	23	
1985	24	
1985	25	
1985	26	
1985	27	
1985	28	
1985	29	
1985	30	
1985	31	
1985	32	
1985	33	
1985	34	
1985	35	
1985	36	
1985	37	
1985	38	
1985	39	
1985	40	
1985	41	
1985	42	
1985	43	
1985	44	
1985	45	
1985	46	
1985	47	
1985	48	
1985	49	
1985	50	
1985	51	
1985	52	
1985	53	
1985	54	
1985	55	8
1985	56	
1985	57	
1985	58	
1985	59	
1985	60	
1985	61	10
1985	62	
1985	63	
1985	64	
1985	65	
1985	66	
1985	67	15
1985	68	
1985	69	
1985	70	
1985	71	
1985	72	
1985	73	8
1985	74	
1985	75	
1985	76	
1985	77	

NESVR. PRN

YEAR	JDAY	NH SVR	VT SVR	NJ SVR	ACADIA SVR	ACADIA AC	ACADIA BEXT	ACADIA TEMP	ACADIA RHUM	ACADIA SVR	ACADIA TR
1983	35							40			
1983	36							107			
1983	37							122			
1983	38										
1983	39										
1983	40							97			
1983	41							87			
1983	42							95			
1983	43										
1983	44							119			
1983	45							26			
1983	46							23			
1983	47							100			
1983	48										
1983	49										
1983	50										
1983	51										
1983	52										
1983	53										
1983	54										
1983	55							51			
1983	56							90			
1983	57							67			
1983	58							103			
1983	59							42			
1983	60										
1983	61										
1983	62							43			
1983	63							168			
1983	64							162			
1983	65							105			
1983	66							98			
1983	67							61			
1983	68							54			
1983	69										
1983	70										
1983	71										
1983	72							86			
1983	73							133			
1983	74							44			
1983	75							86			
1983	76							38			
1983	77							35			
1983	78							124			
1983	79							148			
1983	80							30			
1983	81							60			
1983	82							57			
1983	83							59			
1983	84							100			
1983	85							91			
1983	86							79			
1983	87										
1983	88							60			
1983	89							122			
1983	90							116			
1983	91							87			
1983	92							58			
1983	93							86			
1983	94										
1983	95							149			
1983	96							98			
1983	97							125			
1983	98										
1983	99							144			
1983	100							65			

JUL98.TXT

DATE	HOUR	RGAGE (IN)	WN SPD MPH	WN DIR (DEG)	ATEMP (DEGF)	FTEMP (DEGF)	RHUM (%)
70188	47	79.45	3	8	48	47	100
70188	147	79.45	4	26	49	47	100
70188	247	79.45	2	323	49	49	100
70188	347	79.45	1	291	49	47	100
70188	447	79.45	1	276	50	49	100
70188	547	79.45	4	272	51	53	100
70188	647	79.45	1	282	52	55	100
70188	747	79.45	3	282	59	59	98
70188	847	79.45	4	269	63	76	85
70188	947	79.45	5	269	63	84	85
70188	1047	79.45	6	266	65	91	76
70188	1147	79.45	7	253	63	91	79
70188	1247	79.45	6	251	61	90	81
70188	1347	79.45		233	63	93	79
70188	1447	79.45	5	246	62	86	83
70188	1547	79.45	6	239	58	76	90
70188	1647	79.45	5	238	59	71	87
70188	1747	79.45	4	257	55	55	100
70188	1847	79.45	3	247	52	52	100
70188	1947	79.45	2	225	50	48	100
70188	2047	79.45	3	192	49	47	100
70188	2147	79.45	4	213	50	48	100
70188	2247	79.45	2	221	49	47	100
70188	2347	79.45	3	217	49	47	100
70288	47	79.45	2	201	49	46	100
70288	147	79.45	1	187	50	44	100
70288	247	79.45	0	144	49	42	100
70288	347	79.45	3	78	48	45	100
70288	447	79.45	2	116	49	49	100
70288	547	79.45	3	124	50	52	100
70288	647	79.45	2	128	50	55	100
70288	747	79.45	3	128	52	60	100
70288	847	79.45	3	138	54	63	100
70288	947	79.45	2	330	57	69	98
70288	1047	79.45	1	161	57	66	99
70288	1147	79.45	3	133	65	98	79
70288	1247	79.45	2	173	61	81	87
70288	1347	79.45	3	184	62	88	82
70288	1447	79.45	2	239	60	73	89
70288	1547	79.45	3	272	58	66	93
70288	1647	79.45	1	291	61	70	89
70288	1747	79.45	4	271	54	58	100
70288	1847	79.45	3	272	53	55	100
70288	1947	79.45	3	274	52	52	100
70288	2047	79.45	3	276	51	49	100
70288	2147	79.45	1	272	51	47	100
70288	2247	79.45	1	268	50	47	100
70288	2347	79.45	1	274	50	46	100
70388	47	79.45	1	281	50	46	100
70388	147	79.45	1	270	50	46	100
70388	247	79.45	2	273	50	49	100
70388	347	79.45	2	278	51	50	100
70388	447	79.45	2	289	51	51	100
70388	547	79.45	3	278	53	53	100
70388	647	79.45	4	276	59	57	96
70388	747	79.45	4	277	64	60	79
70388	847	79.45	5	273	67	81	68
70388	947	79.45	6	263	71	92	66
70388	1047	79.45	6	263	71	9	61
70388	1147	79.45	6	269	70	100	69
70388	1247	79.45	5	269	69	99	67
70388	1347	79.45	6	268	72	99	62

ACADIA SVR.PRN

ACADIA SVR IN KM
YEAR JDAY SVR (KM)

1980	1	
1980	2	
1980	3	160
1980	4	170
1980	5	133
1980	6	171
1980	7	98
1980	8	141
1980	9	119
1980	10	159
1980	11	98
1980	12	
1980	13	172
1980	14	69
1980	15	89
1980	16	139
1980	17	66
1980	18	56
1980	19	55
1980	20	142
1980	21	178
1980	22	
1980	23	44
1980	24	142
1980	25	157
1980	26	0
1980	27	0
1980	28	0
1980	29	0
1980	30	0
1980	31	0
1980	32	0
1980	33	198
1980	34	170
1980	35	139
1980	36	127
1980	37	176
1980	38	87
1980	39	89
1980	40	177
1980	41	87
1980	42	174
1980	43	73
1980	44	93
1980	45	69
1980	46	126
1980	47	47
1980	48	165
1980	49	181
1980	50	95
1980	51	88
1980	52	74
1980	53	152
1980	54	99
1980	55	80
1980	56	132
1980	57	135
1980	58	141
1980	59	37
1980	60	
1980	61	151
1980	62	151
1980	63	175
1980	64	128
1980	65	57
1980	66	79
1980	67	37
1980	68	35
1980	69	37
1980	70	90
1980	71	81
1980	72	138
1980	73	66
1980	74	
1980	75	
1980	76	
1980	77	

Atlantic City-Site=07 Year=1988

Sample	TSP	SO4	NO3
Date	(ug/m3)	(ug/m3)	(ug/m3)
=====			
01/04	33.86	3.77	1.08
01/10	69.03	8.79	2.87
01/16	34.07	4.44	4.24
01/22	36.45	5.27	1.59
01/28	40.51	7.16	1.42
02/03	NA	NA	NA
02/09	NA	NA	NA
02/15	35.08	4.39	1.49
02/21	19.14	2.46	0.56
02/27	35.91	5.76	3.32
03/04	56.78	7.46	1.69
03/10	32.10	3.42	0.64
03/16	43.58	6.71	1.24
03/22	55.84	2.94	1.23
03/28	28.21	4.55	0.39
04/03	30.63	7.87	0.66
04/09	18.67	2.26	0.32
04/15	35.98	4.36	1.68
04/21	29.80	4.32	1.02
04/27	36.78	6.18	1.04
05/03	29.16	7.46	0.99
05/09	32.82	2.90	0.71
05/15	34.95	7.59	1.03
05/21	36.93	7.80	0.42
05/27	34.31	4.80	0.74
06/02	81.55	2.97	1.27
06/08	34.01	5.89	1.82
06/14	97.20	30.33	0.22
06/20	41.79	10.82	0.40
06/26	45.45	5.43	2.40
07/02	34.97	2.56	0.61
07/08	42.90	8.08	0.63
07/14	57.57	11.95	0.25
07/20	47.70	4.11	1.93
07/26	42.01	11.47	0.01
08/01	81.23	24.79	0.71
08/07	44.05	10.17	0.61
08/13	NA	NA	NA
08/19	NA	NA	NA
08/25	53.76	12.49	0.26
08/31	38.28	4.12	0.47
09/06	38.61	4.40	0.91
09/12	NA	NA	NA
09/18	29.48	5.41	0.27
09/24	32.02	2.57	0.79
09/30	30.01	4.98	0.76
10/06	40.75	4.15	0.28
10/12	45.64	2.92	0.57
10/18	33.96	3.76	0.52
10/24	29.77	3.40	0.59
10/30	35.09	2.51	0.61
11/05	18.70	3.01	0.26
11/11	33.51	2.55	0.33
11/17	29.59	2.99	0.48
11/23	24.66	4.12	0.32
11/29	35.23	5.52	0.36
12/05	NA	NA	NA
12/11	54.60	3.60	0.45
12/17	71.26	4.85	0.80
12/23	NA	NA	NA
12/29	53.76	4.80	0.93

BRIGASVR.PRN

Brigantine National Wildlife Refuge
(near Atlantic City New Jersey)
Standard Visual Range Data in Km
Year Mo Day SVR

87	1	6	39
87	1	7	46
87	1	8	229
87	1	9	28
87	1	10	0
87	1	11	64
87	1	12	62
87	1	13	105
87	1	14	34
87	1	15	41
87	1	16	95
87	1	17	167
87	1	18	0
87	1	19	0
87	1	20	33
87	1	21	31
87	1	23	52
87	1	24	319
87	1	25	43
87	1	26	0
87	1	27	52
87	2	2	0
87	2	3	51
87	2	4	140
87	2	5	126
87	2	6	44
87	2	7	51
87	2	8	54
87	2	9	0
87	2	10	69
87	2	11	47
87	2	12	33
87	2	13	234
87	2	14	76
87	2	15	137
87	2	16	74
87	2	17	49
87	2	18	71
87	2	19	160
87	2	20	197
87	2	21	129
87	2	22	33
87	2	23	29
87	2	24	90
87	2	25	162
87	2	26	234
87	2	27	42
87	2	28	53
87	3	1	0
87	3	2	335
87	3	3	40
87	3	4	146
87	3	5	66
87	3	6	48
87	3	7	62
87	3	8	43
87	3	9	46
87	3	10	60
87	3	11	33
87	3	13	0
87	3	14	54
87	3	15	36
87	3	16	50
87	3	17	159