Figure 1. Key Data for Event of April 12, 2007

NORTH PHOENIX

12-PHX Greenway

Hr	T(F)	RH	Rn	Spd	Max	Dir
1	72	25	-	8	16	SW
2	70	29	-	8	15	SW
3	69	30	-	6	12	SW
4	67	30	-	7	15	SW
5	65	31	-	6	12	SW
6	64	34	-	5	10	SW
7	62	36	-	5	11	S
8	62	34	-	7	15	SW
9	64	30	-	7	13	SW
10	66	30	-	7	15	SW
11	68	28	-	8	15	S
12	70	29	-	9	20	SW
1	71	22	-	10	18	SW
2	72	19	-	11	20	SW
3	73	20	-	9	18	SW
4	72	20	-	11	19	SW
5	65	36	-	15	29	W
6	60	47	-	11	20	NW
7	57	49	-	9	16	NW
8	55	58	-	5	16	NW
9	54	66	-	5	11	S
10	53	75	-	6	11	S
11	53	73	-	3	8	S
12	52	76	0.05	3	9	E

CENTRAL PHOENIX

15-Phx Encanto

Hr	T(F)	RH	Rn	Spd	Max	Dir
1	73	24	-	7	14	W
2	71	26	-	9	15	W
3	70	27	-	7	14	W
4	69	28	-	5	10	SW
5	67	30	-	5	10	SW
6	65	32	-	6	10	SW
7	64	34	-	6	11	SW
8	64	32	-	7	13	SW
9	66	29	-	8	14	SW
10	67	29	-	8	14	SW
11	69	27	-	7	16	SW
12	71	29	-	8	18	SW
1	72	22	-	10	18	SW
2	73	20	-	11	20	SW
3	74	20	-	9	17	W
4	74	19	-	12	23	W
5	68	29	-	14	29	NW
6	62	42	-	13	24	NW
7	59	44	-	11	19	N
8	55	64	0.02	4	12	NW
9	54	74	-	4	9	S
10	53	74	-	2	5	SE
11	54	73	-	3	7	SE
12	43	55	-	3	7	E

SOUTHEAST PHOENIX

29-Mesa

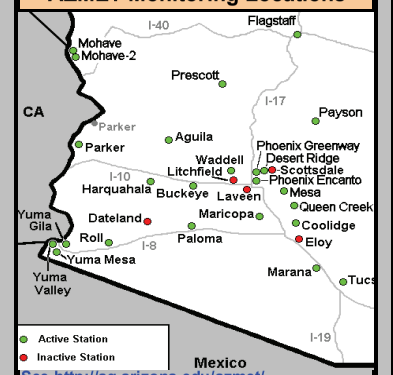
Hr	T(F)	RH	Rn	Spd	Max	Dir
1	75	19	-	7	12	SW
2	74	22	-	7	12	SW
3	72	23	-	7	13	SW
4	71	26	-	6	10	SW
5	69	28	-	6	12	SW
6	67	28	-	6	11	SW
7	66	29	-	4	8	SW
8	65	31	-	5	10	SW
9	68	27	-	7	11	SW
10	70	24	-	7	13	SW
11	71	21	-	10	17	SW
12	73	22	-	10	18	SW
1	75	20	-	10	21	SW
2	76	15	-	9	18	W
3	77	14	-	9	18	W
4	78	13	-	11	22	W
5	74	19	-	14	27	W
6	65	37	-	16	28	NW
7	62	39	-	15	26	NW
8	57	57	0.03	11	22	NW
9	53	80	0.05	5	13	E
10	53	77	-	5	14	S
11	53	76	-	4	9	SE
12	52	76	-	4	8	SE

SOUTHEAST PHOENIX

22-Queen Creek

Hr	T(F)	RH	Rn	Spd	Max	Dir
1	65	41	-	4	6	SE
2	65	39	-	5	7	SE
3	63	48	-	3	6	SE
4	63	43	-	3	5	S
5	65	33	-	7	17	SW
6	65	30	-	7	14	SW
7	64	32	-	8	15	W
8	64	31	-	8	13	W
9	66	28	-	11	17	W
10	68	26	-	9	14	W
11	70	27	-	8	15	SW
12	72	29	-	11	21	SW
1	74	21	-	14	24	SW
2	76	18	-	13	22	W
3	77	15	-	11	19	W
4	77	12	-	15	26	SW
5	75	14	-	20	32	W
6	69	26	-	20	30	NW
7	62	42	-	19	28	NW
8	59	44	-	19	28	NW
9	53	72	0.02	15	29	NW
10	50	84	0.08	7	14	NE
11	50	82	-	7	12	E
12	49	90	-	4	7	S

AZMET Monitoring Locations



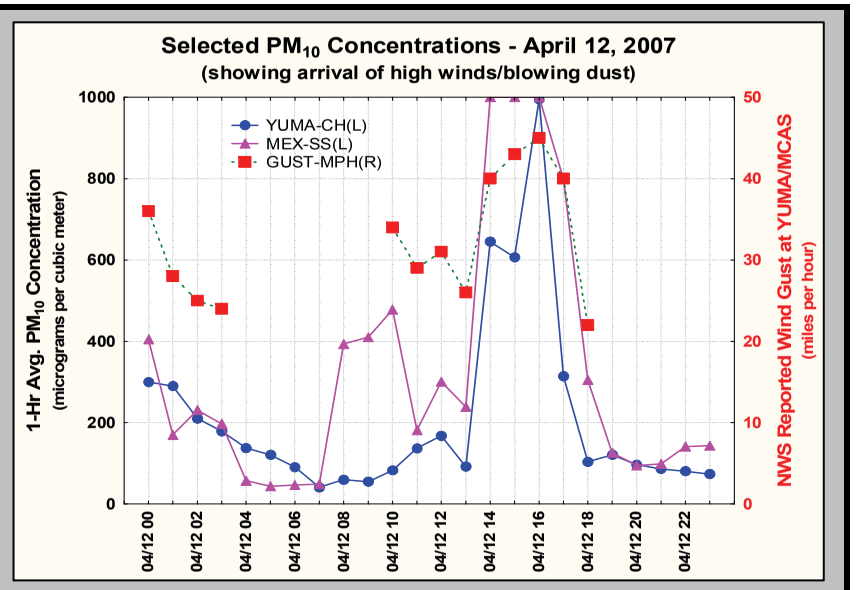
See http://ag.arizona.edu/azmet/
wnd @3m agl / Dir corrected to true north

HIGHLIGHTING	Col.	Parameter
Max Wind	T(F)	Temp. (Deg. F.)
> 15 mph	RH	Rel Humidity %
>25 mph	Rn	Rain (Inches/hr)
HR - Time (End)	Spd	Avg Speed mph
A.M.	Max	Max Speed mph
P.M.	Dir	Wind Dir. (from)

PHX WINDS	KEY	PM10 PLOT
CEN. AZ WINDS	SAT IMAGES	
SO AZ WINDS	MONITOR SITES FORECAST	

SUMMARY OF EVENT

The event which started on April 11th continued into April 12th. The upper level trough and frontal system brough wind gust to up to 50 mph. Air Quality in Phoenix was also effected from the frontal system passage.



PARKER

08-Parker

Hr	T(F)	RH	Rn	Spd	Max	Dir
1	69	24	-	16	25	NW
2	68	24	-	18	26	NW
3	66	26	-	18	30	NW
4	64	26	-	15	26	W
5	63	28	-	5	13	SE
6	62	28	-	5	14	W
7	61	30	-	4	15	SW
8	64	27	-	10	17	W
9	67	26	-	7	20	W
10	69	21	-	6	18	W
11	72	21	-	8	16	SW
12	73	21	-	12	29	SW
1	70	21	-	17	28	NW
2	67	21	-	22	36	NW
3	67	17	-	19	34	NW
4	66	19	-	24	34	NW
5	64	26	-	14	21	W
6	64	37	-	12	18	N
7	63	36	-	11	16	NW
8	62	39	-	8	17	N
9	62	38	-	13	43	N
10	63	36	-	15	32	N
11	59	44	-	5	7	NW
12	60	41	-	7	13	NW

BUCKEYE

26-Buckeye

Hr	T(F)	RH	Rn	Spd	Max	Dir
1	69	30	-	11	18	SW
2	67	34	-	7	12	SW
3	65	34	-	6	11	SW
4	62	43	-	4	7	SW
5	58	48	-	5	9	SW
6	57	47	-	6	9	SW
7	57	46	-	7	11	SW
8	59	52	-	5	9	SW
9	63	44	-	6	10	SW
10	67	37	-	7	12	SW
11	68	35	-	8	17	SW
12	69	31	-	12	24	SW
1	71	29	-	14	21	SW
2	72	28	-	13	25	SW
3	71	31	-	13	26	W
4	66	41	-	16	37	W
5	61	49	-	20	29	NW
6	60	48	0.01	14	25	NW
7	56	55	-	8	18	N
8	56	61	-	2	5	SE
9	53	72	-	1	3	W
10	54	69	-	2	5	S
11	52	66	-	4	7	W
12	55	54	-	8	17	N

MARICOPA

06-Maricopa

Hr	T(F)	RH	Rn	Spd	Max	Dir
1	72	23	-	9	13	SW
2	70	27	-	5	13	SW
3	69	28	-	6	10	W
4	67	27	-	7	13	W
5	65	32	-	5	9	SW
6	62	35	-	6	11	W
7	62	34	-	8	14	W
8	63	38	-	4	10	NW
9	65	32	-	9	15	W
10	68	26	-	5	14	W
11	71	23	-	11	20	SW
12	73	23	-	13	21	SW
1	75	19	-	13	22	W
2	77	14	-	13	24	W
3	78	11	-	17	29	W
4	78	12	-	18	28	W
5	74	18	-	18	29	W
6	68	30	-	18	27	NW
7	61	41	-	18	28	NW
8	54	74	0.01	13	23	NW
9	52	84	0.04	4	12	W
10	52	87	-	6	10	S
11	52	88	-	7	11	S
12	51	88	-	9	15	S

COOLIDGE

05-Coolidge

Hr	T(F)	RH	Rn	Spd	Max	Dir
1	65	39	-	4	7	SE
2	63	46	-	4	6	SW
3	62	47	-	4	6	SW
4	62	41	-	5	8	S
5	60	53	-	4	6	SW
6	59	58	-	4	8	SW
7	57	64	-	4	6	SW
8	60	60	-	4	12	SW
9	66	48	-	8	12	SW
10	68	45	-	9	19	SW
11	69	41	-	11	20	SW
12	71	36	-	11	20	SW
1	73	30	-	11	20	SW
2	74	24	-	14	24	SW
3	74	22	-	14	25	SW
4	74	20	-	16	24	SW
5	72	20	-	15	26	W
6	69	26	-	16	29	NW
7	62	40	-	20	29	NW
8	58	49	-	18	27	NW
9	53	71	-	10	23	NW
10	50	88	0.08	5	14	E
11	50	87	-	4	9	SE
12	49	91	-	3	4	S

YUMA

02-YumaValley

Hr	T(F)	RH	Rn	Spd	Max	Dir
1	65	38	-	19	28	NW
2	63	39	-	16	27	NW
3	62	37	-	17	27	NW
4	61	32	-	12	19	NW
5	60	32	-	11	20	NW
6	59	37	-	17	26	NW
7	59	45	-	14	22	NW
8	60	46	-	13	20	NW
9	64	41	-	16	24	NW
10	67	34	-	18	26	NW
11	71	29	-	20	28	W
12	74	24	-	18	27	W
1	76	24	-	19	28	SW
2	78	17	-	20	31	W
3	76	22	-	24	35	NW
4	74	22	-	26	36	NW
5	66	27	-	23	36	N
6	63	30	-	23	34	NW
7	62	35	-	15	23	NW
8	62	34	-	13	21	NW
9	60	36	-	11	17	NW
10	60	35	-	11	20	NW
11	60	36	-	14	21	NW
12	60	33	-	15	23	NW

PALOMA

19-Paloma

Hr	T(F)	RH	Rn	Spd	Max	Dir
1	68	34	-	10	15	SW
2	66	32	-	10	15	SW
3	64	35	-	12	17	SW
4	63	37	-	10	16	SW
5	60	41	-	10	15	W
6	57	47	-	9	14	SW
7	57	48	-	10	15	W
8	61	44	-	9	13	SW
9	65	36	-	11	17	SW
10	68	30	-	14	20	SW
11	71	24	-	14	20	W
12	73	23	-	15	20	W
1	75	21	-	17	27	SW
2	76	19	-	21	30	SW
3	76	19	-	20	31	W
4	76	17	-	18	28	W
5	67	31	-	19	33	NW
6	60	44	-	13	26	NW
7	58	40	-	10	24	N
8	58	42	-	5	17	SW
9	57	46	-	5	9	SW
10	56	40	-	7	11	W
11	56	40	-	9	16	W
12	54	41	-	9	13	W

MARANA

13-Marana

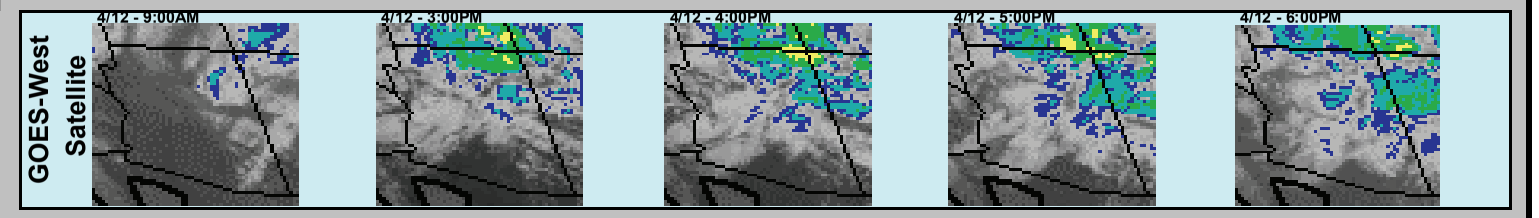
Hr	T(F)	RH	Rn	Spd	Max	Dir
1	69	19	-	3	6	S
2	68	22	-	3	8	S
3	64	26	-	4	9	SW
4	63	29	-	1	4	E
5	62	28	-	2	5	SE
6	61	30	-	1	4	NW
7	60	33	-	1	4	N
8	64	33	-	4	11	W
9	67	31	-	4	9	SE
10	71	27	-	8	17	SW
11	73	22	-	11	23	W
12	76	17	-	18	27	W
1	77	16	-	20	30	W
2	78	14	-	20	30	SW
3	79	14	-	23	32	SW
4	78	14	-	21	30	SW
5	77	11	-	22	30	W
6	75	10	-	20	29	W
7	71	13	-	20	29	W
8	64	27	-	22	32	NW
9	55	52	-	20	31	NW
10	52	63	0.02	16	26	NW
11	48	89	0.09	7	15	NE
12	49	84	-	4	10	SE

TUCSON

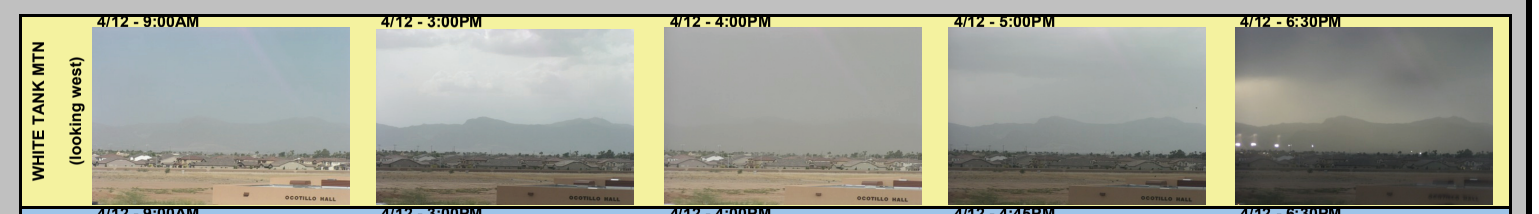
01-Tucson

Hr	T(F)	RH	Rn	Spd	Max	Dir
1	66	27	-	2	6	SE
2	66	28	-	2	7	S
3	68	24	-	3	9	S
4	66	23	-	4	8	S
5	64	27	-	3	9	S
6	62	31	-	1	6	SE
7	60	37	-	1	7	SW
8	64	32	-	7	14	W
9	65	33	-	5	10	SW
10	69	30	-	6	16	S
11	71	26	-	6	16	S
12	73	19	-	9	17	SW
1	74	18	-	10	24	SW
2	76	17	-	11	22	SW
3	77	15	-	13	28	W
4	76	15	-	11	22	SW
5	76	15	-	11	22	SW
6	74	12	-	11	23	SW
7	71	11	-	13	22	W
8	67	16	-	15	25	W
9	58	42	-	18	29	NW
10	53	57	-	18	27	NW
11	49	78	0.09	14	24	NW
12	48	85	0.01	4	13	NW

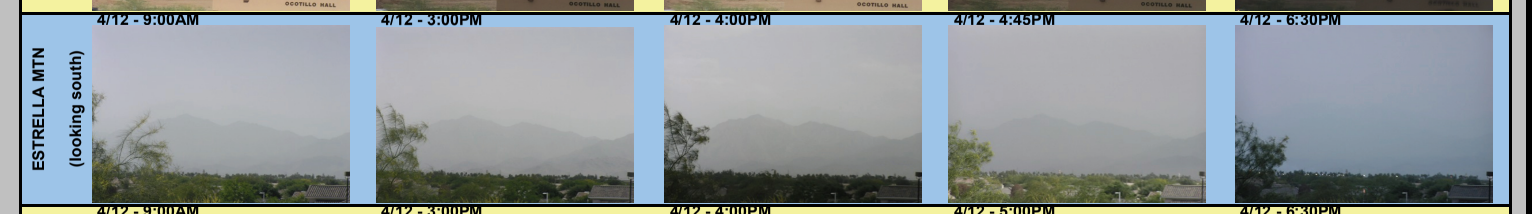
GOES-West Satellite



WHITE TANK MTN (looking west)

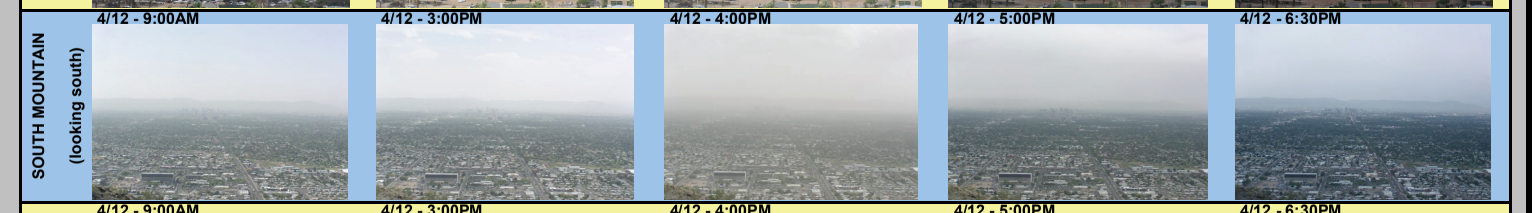


ESTRELLA MTN (looking south)

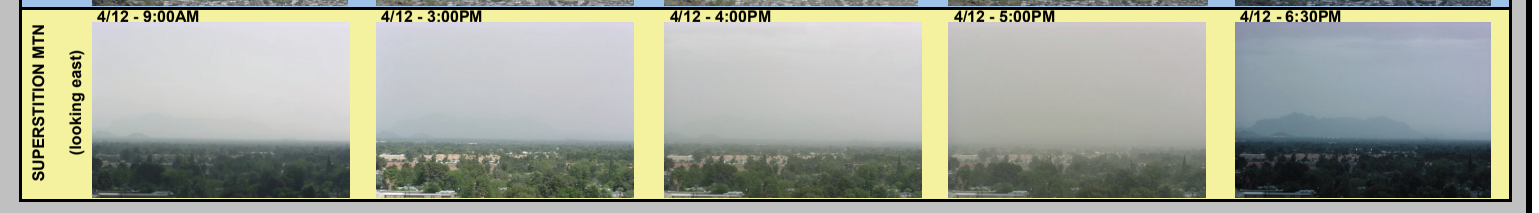


CAMELBACK MTN (looking northeast)

SOUTH MOUNTAIN (looking south)



SUPERSTITION MTN (looking east)



Prepared by A. Juniel and S. Kendall / ADEQ 10/29/07 DRAFT