Appendix B
Meteorological Data

The following graphs contained wind speed[1] and wind direction data collected from various sites in southeastern California and southwestern Arizona. Note that wind speed measurements may be taken at any time during the hour and by different instruments. Some instruments measure in Scalar which are quantities that are fully described by a magnitude (or numerical value) alone and some measure in Vector which are quantities that are fully described by both a magnitude and a direction. Resultant wind speed is the magnitude of the wind observation into components from south and west, summing over the given period, obtaining the averages, and reconverting the average components into a single vector. The following graphs reflect the observed hour in which wind measurement was taken, and not necessarily the exact time.

FIGURE B-1
METEOROLOGICAL SITES USED IN THIS DOCUMENT

Fig B-1: The sites depicted are representative of air quality and meteorological sites used in this document. Google Earth base map

IMPERIAL COUNTY SITES

[1] National Weather Service; NOAA's Glossary – Wind Speed: The rate at which air is moving horizontally past a given point. It may be a 2-minute average speed (reported as wind speed) or an instantaneous speed (reported as a peak wind speed, wind gust, or squall); http://w1.weather.gov/glossary/index.php?letter=w

FIGURES B-2 THROUGH B-9

FIGURE B-2
IMPERIAL COUNTRY AIRPORT (KIPL)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

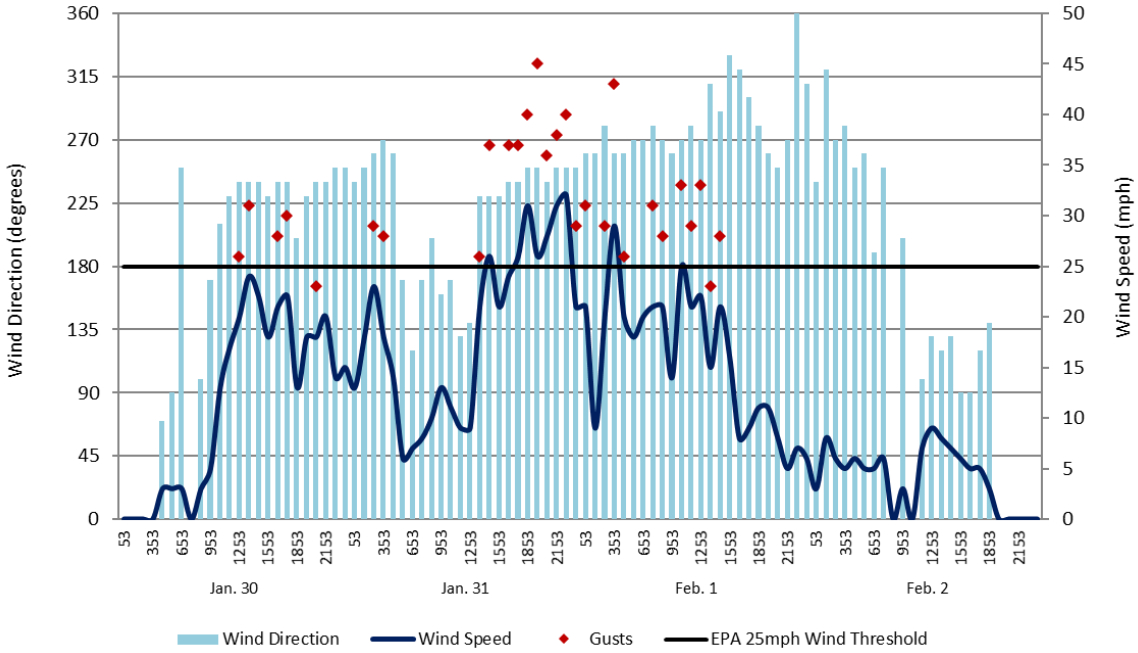
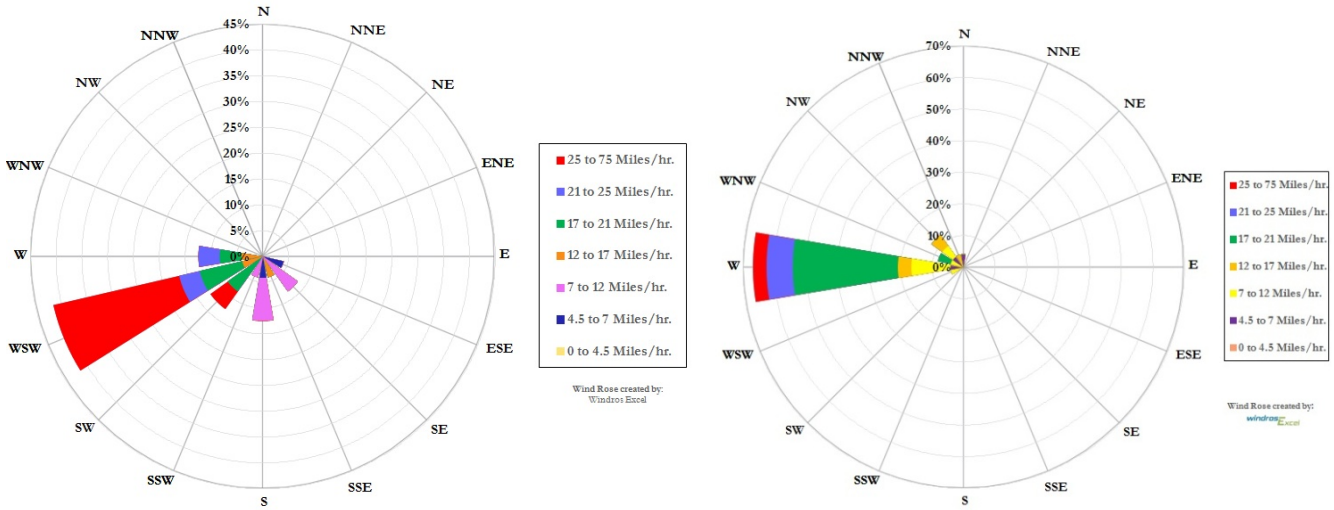


FIGURE B-3 & B-4
IMPERIAL COUNTRY AIRPORT (KIPL) WINDROSE JANUARY 31, 2016 & FEBRUARY 1, 2016



Figs B-2 through B-4: Imperial Airport meteorological data for January 31, 2016 shows an afternoon surge of winds and gusts, mainly from the WSW. Wind shifted to the west on February 1, 2016 (right wind rose). Wind data from the NCEI's QCLCD system

FIGURE B-5

EL CENTRO NAF (KNJK)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

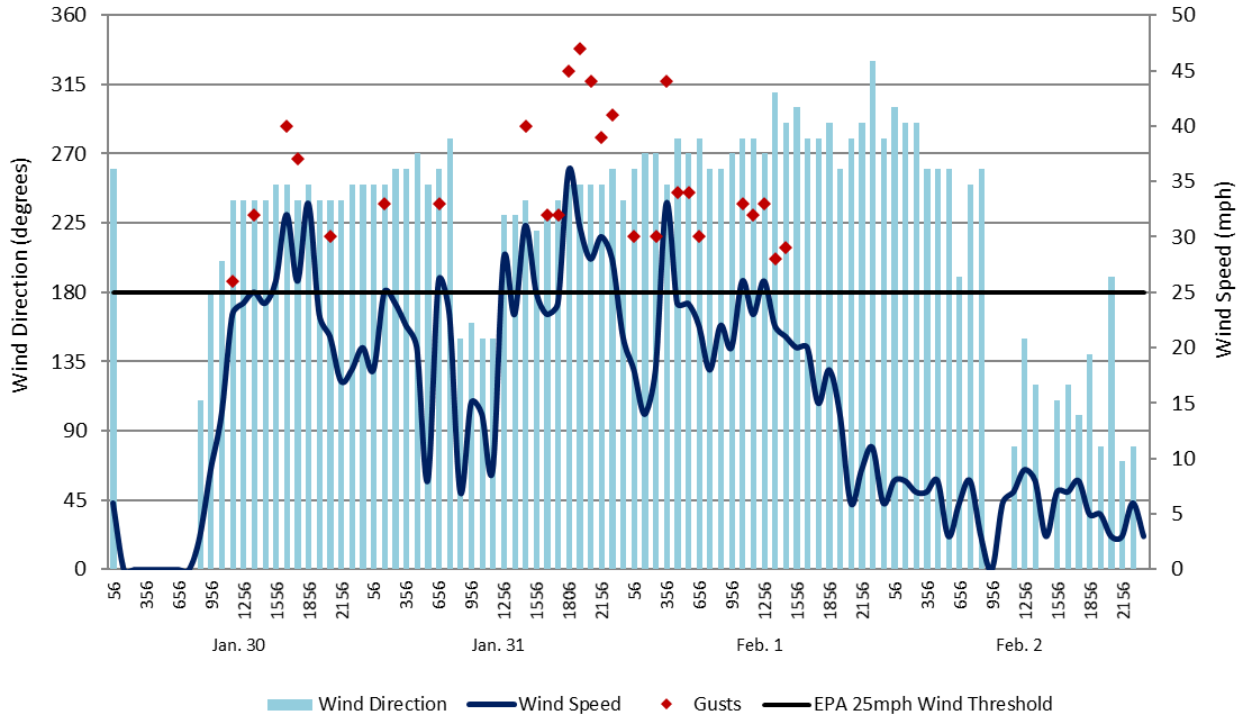
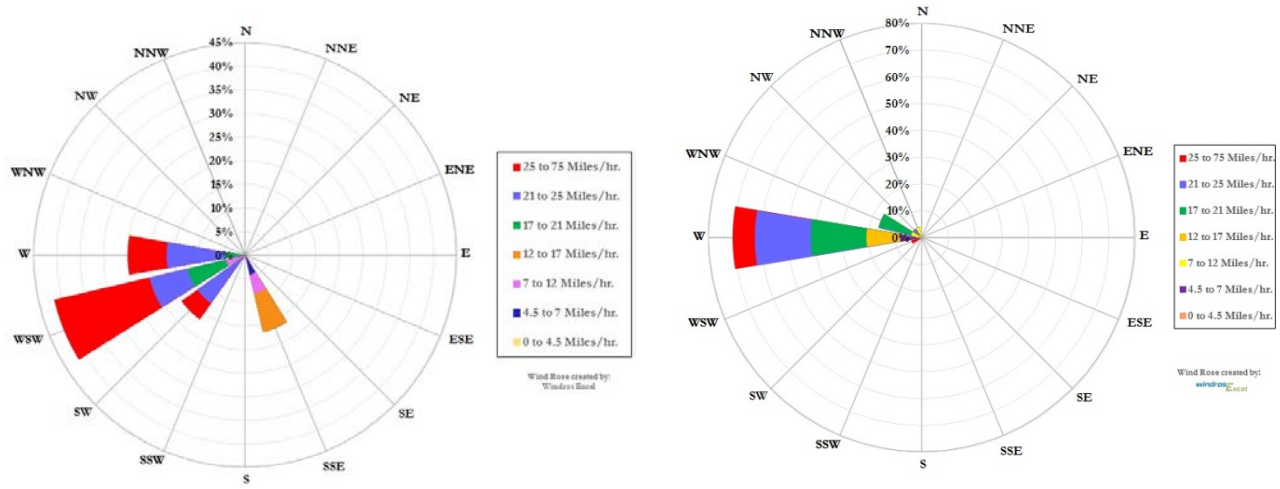


FIGURE B-6 & B-7
EL CENTRO NAF (KNJK) WINDROSE JANUARY 31, 2016 & FEBRUARY 1, 2016



Figs B-5 through B-7: El Centro NAF meteorological data for January 31, 2016 shows an afternoon surge of winds and gusts, mainly from the WSW. Wind shifted to almost due west on February 1, 2016 (right wind rose). Wind data from the NCEI's QCLCD system

FIGURE B-8

WESTMORLAND
WIND SPEED & DIRECTION

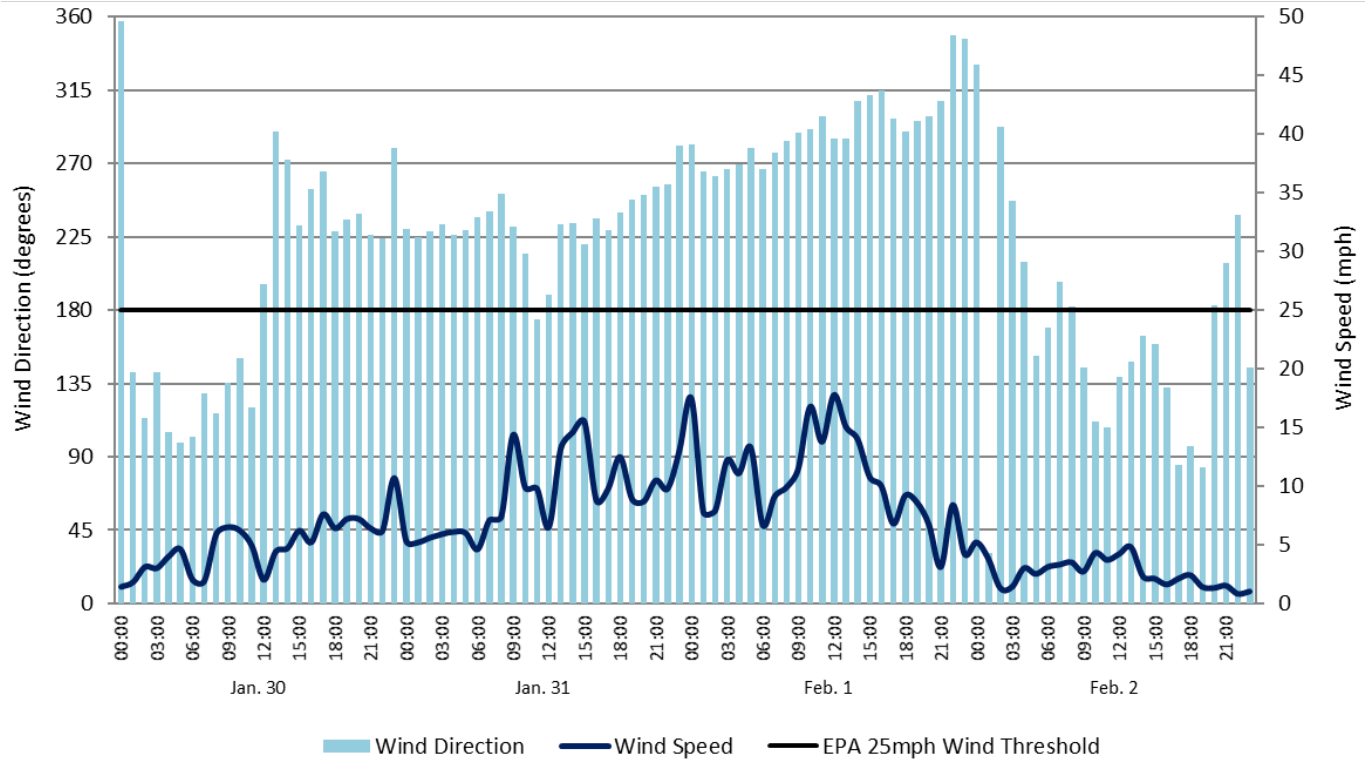
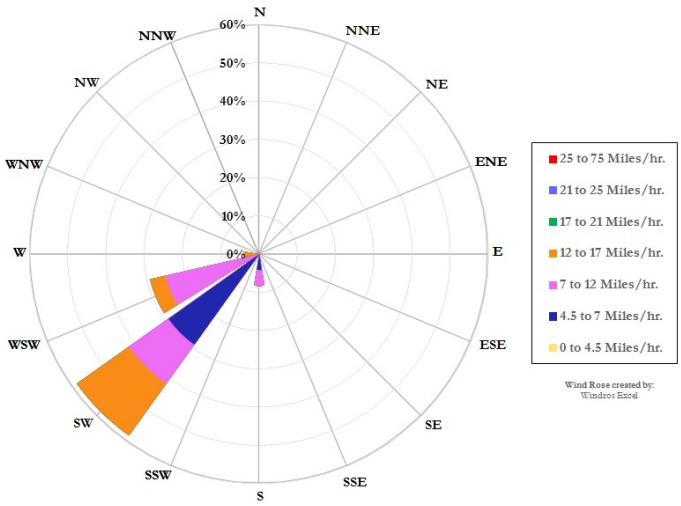
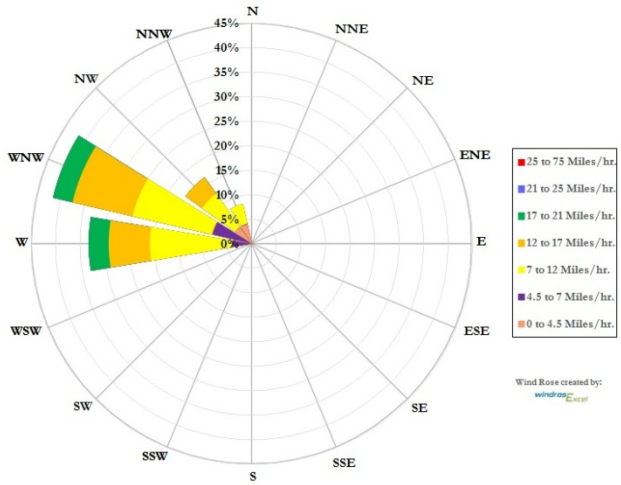


FIGURE B-9 & B-10
WESTMORLAND WINDROSE JANUARY 31, 2016 & FEBRUARY 1, 2016





Figs B-8 through B-10: Westmorland meteorological data for January 31, 2016 shows a slight uptick in winds during the afternoon mainly from the SW. Wind shifted to W-WNW on February 1, 2016 (right wind rose). Wind data from the EPA's AQS data bank

FIGURE B-11

NILAND (ENGLISH RD)
WIND SPEED & DIRECTION

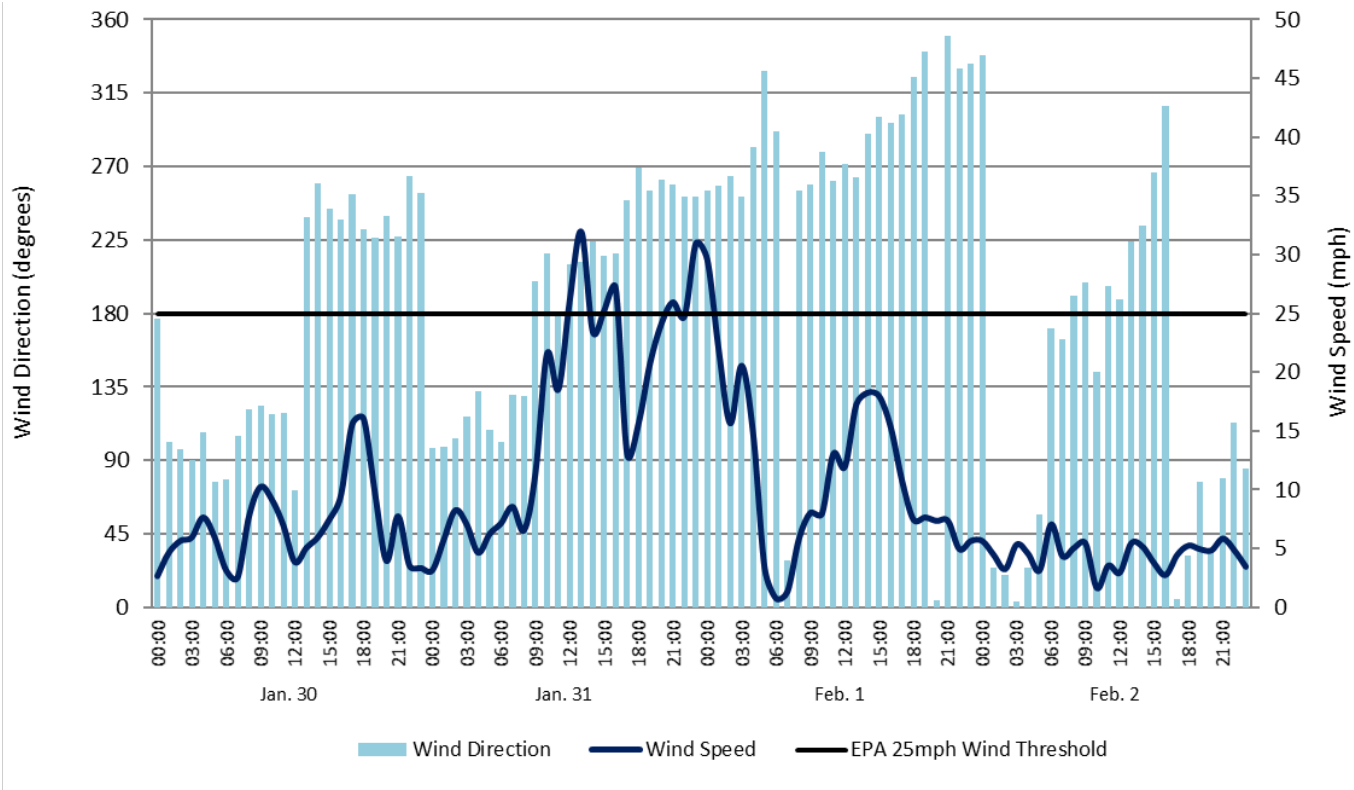
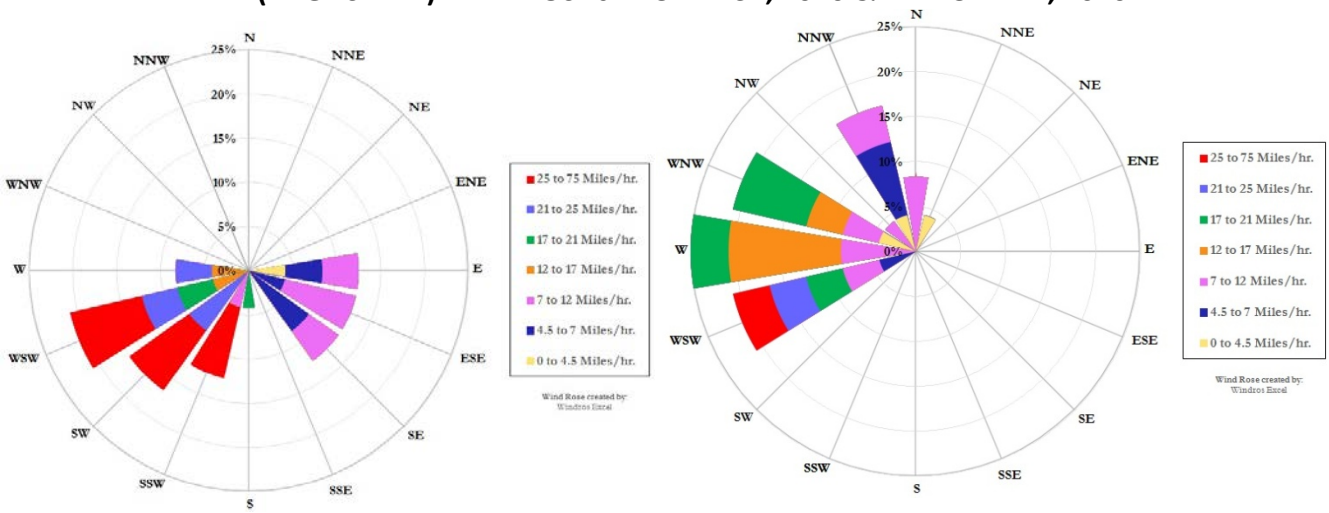


FIGURE B-12 & B-13
NILAND (ENGLISH RD) WINDROSE JANUARY 31, 2016 & FEBRUARY 1, 2016



Figs B-11 through B-13: Niland station had winds over the 25 mph threshold on January 31, 2016, mainly from the WSW to SSW. Wind shifted to W-WNW on February 1, 2016 (right wind rose). Wind data from the EPA's AQS data bank

FIGURE B-14

EL CENTRO (9TH ST)
WIND SPEED & DIRECTION

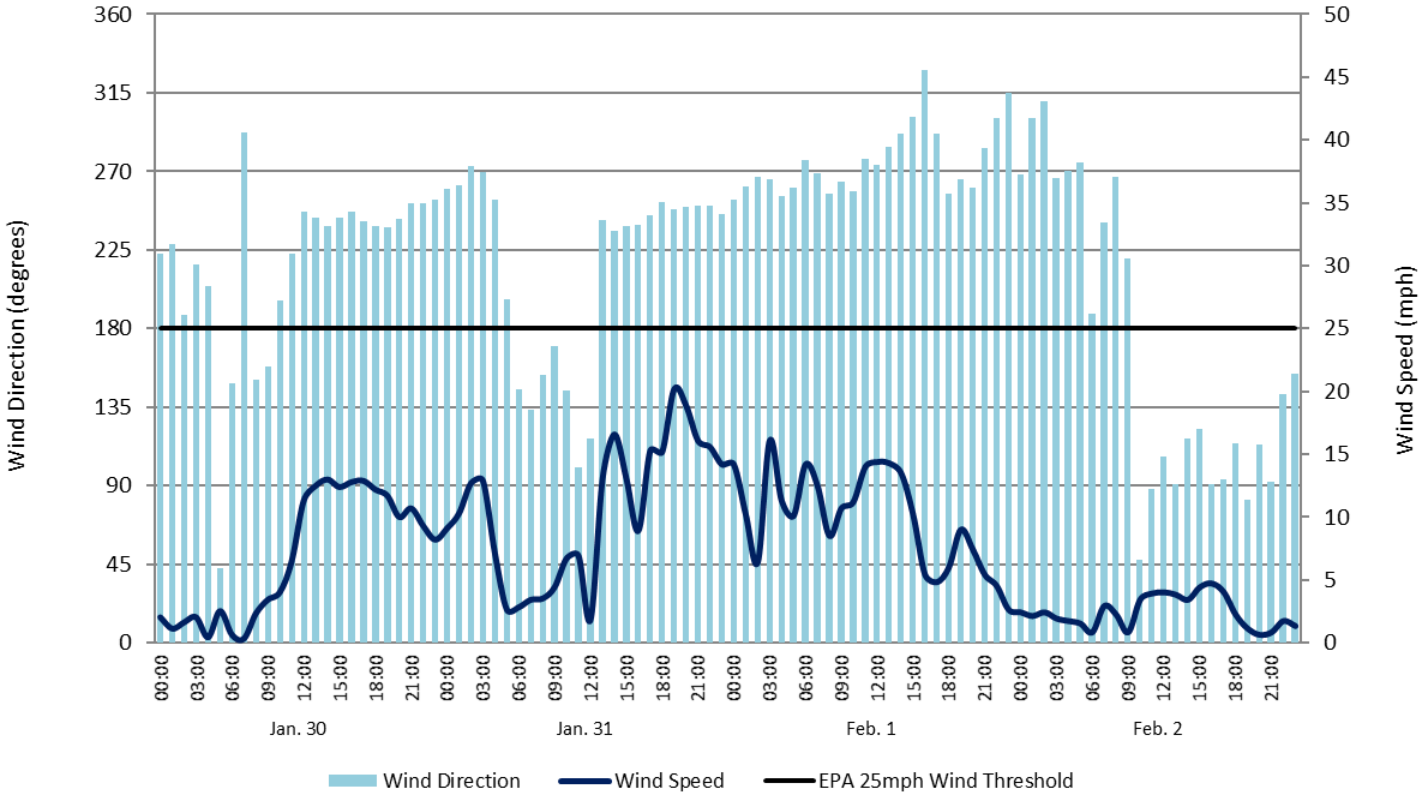
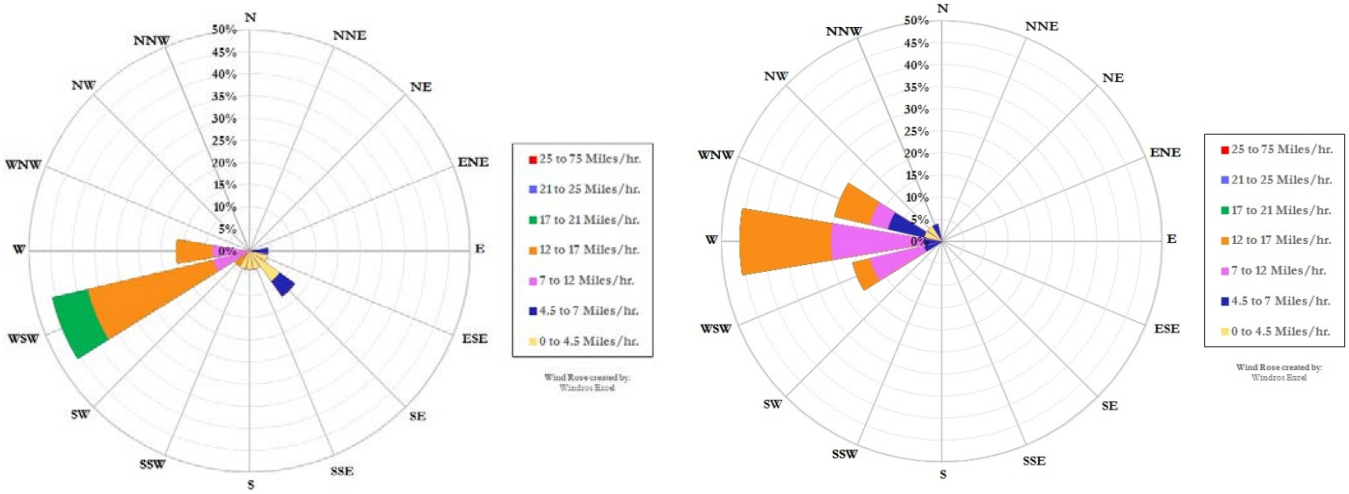


FIGURE B-15 & B-16
EL CENTRO (9TH ST) WINDROSE JANUARY 31, 2016 & FEBRUARY 1, 2016



Figs B-14 through B-16: El Centro station meteorological data for January 31, 2016 shows an afternoon uptick of wind speeds mainly from the WSW. Wind shifted to W-WNW on February 1, 2016 (right wind rose). Wind data from the EPA's AQS data bank

FIGURE B-17

CALEXICO (ETHEL ST)
WIND SPEED & DIRECTION

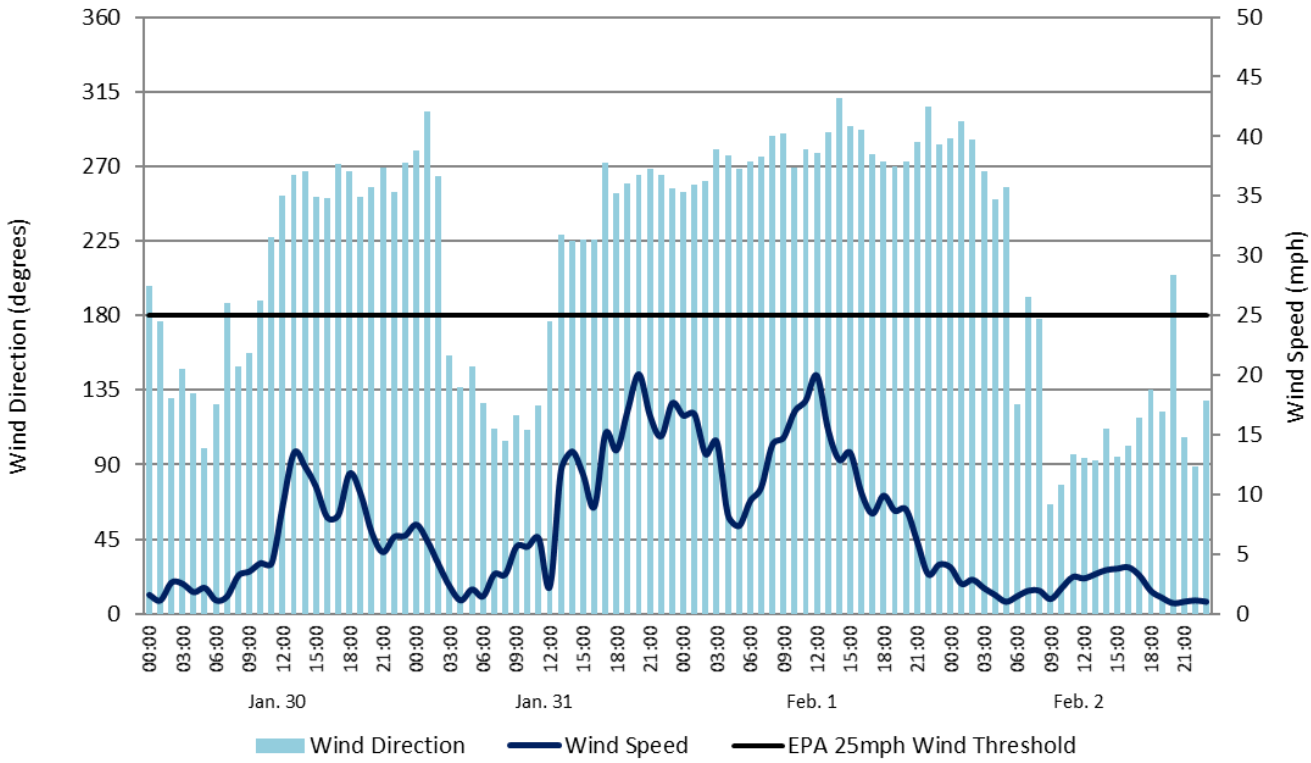
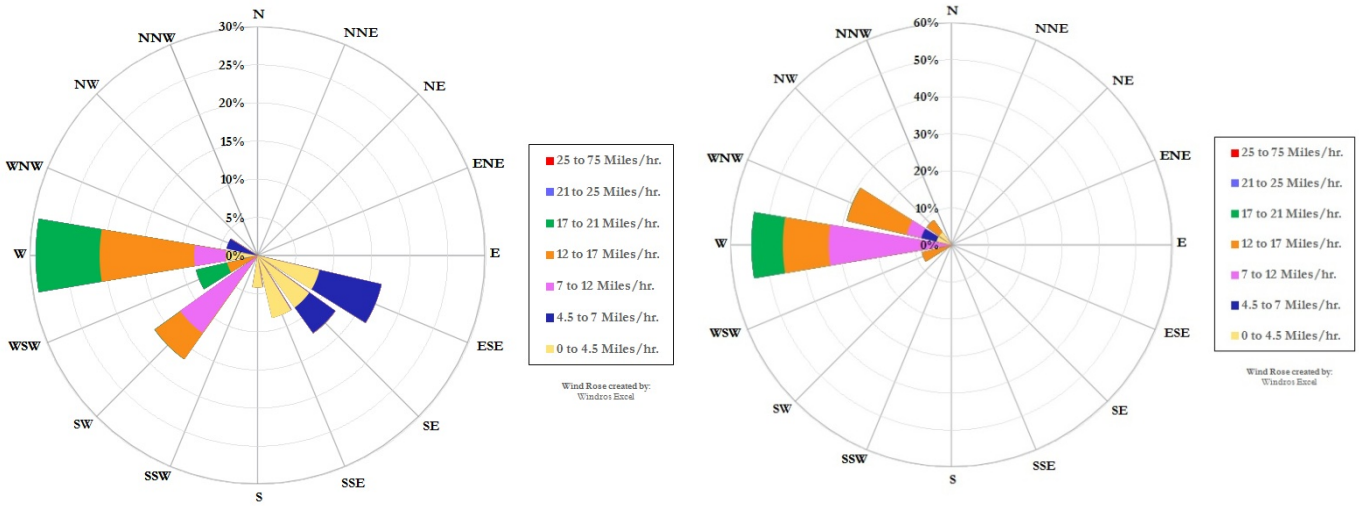


FIGURE B-18 & B-19
CALEXICO WINDROSE JANUARY 31, 2016 & FEBRUARY 1, 2016



Figs B-17 through B-19: Calexico station meteorological data for January 31, 2016 shows a late afternoon uptick of wind speeds mainly from the W and SW. Wind shifted to W-WNW on February 1, 2016 (right wind rose). Wind data from the EPA's AQS data bank

EASTERN RIVERSIDE COUNTY SITES

FIGURE B-20
TORRES-MARTINEZ TRIBAL
WIND SPEED & DIRECTION

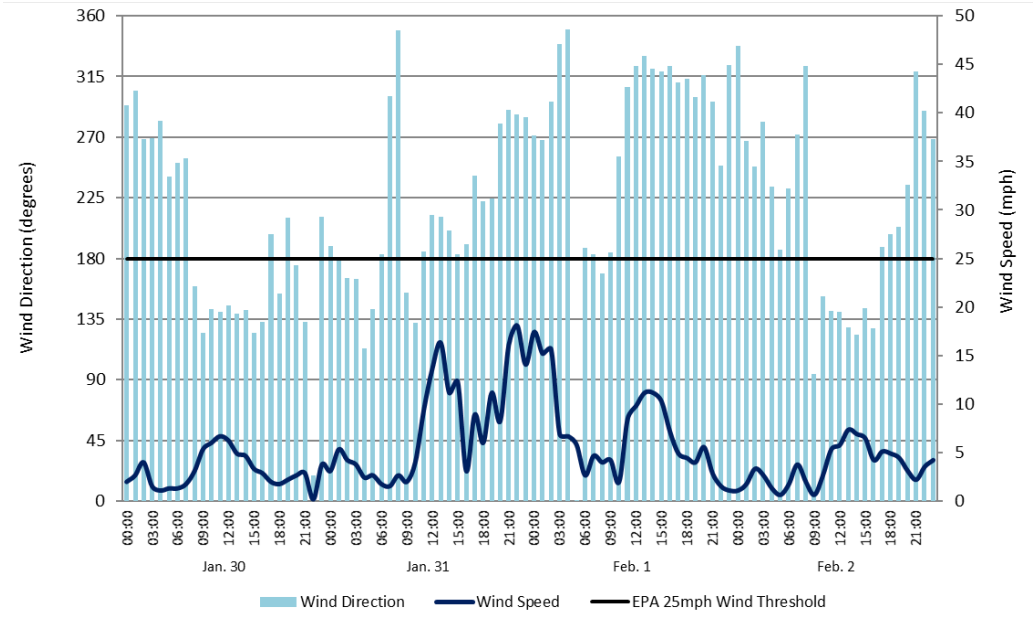


Fig B-20: Wind data from the EPA's AQS data bank

FIGURE B-21
JACQUELINE COCHRAN REGIONAL AIRPORT (KTRM)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

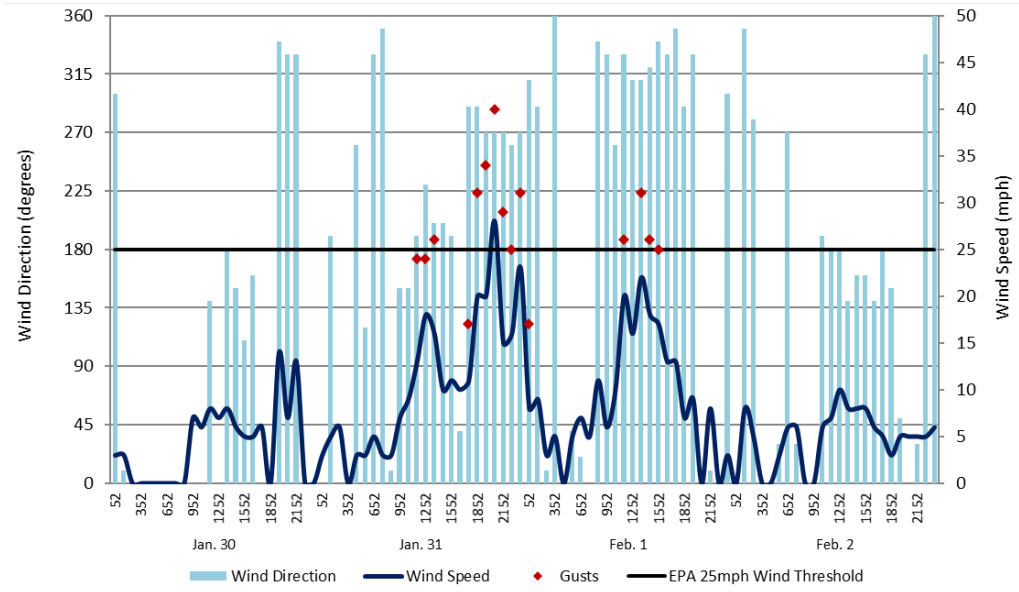


Fig B-21: Wind data from the NCEI's QCLCD system

FIGURE B-22

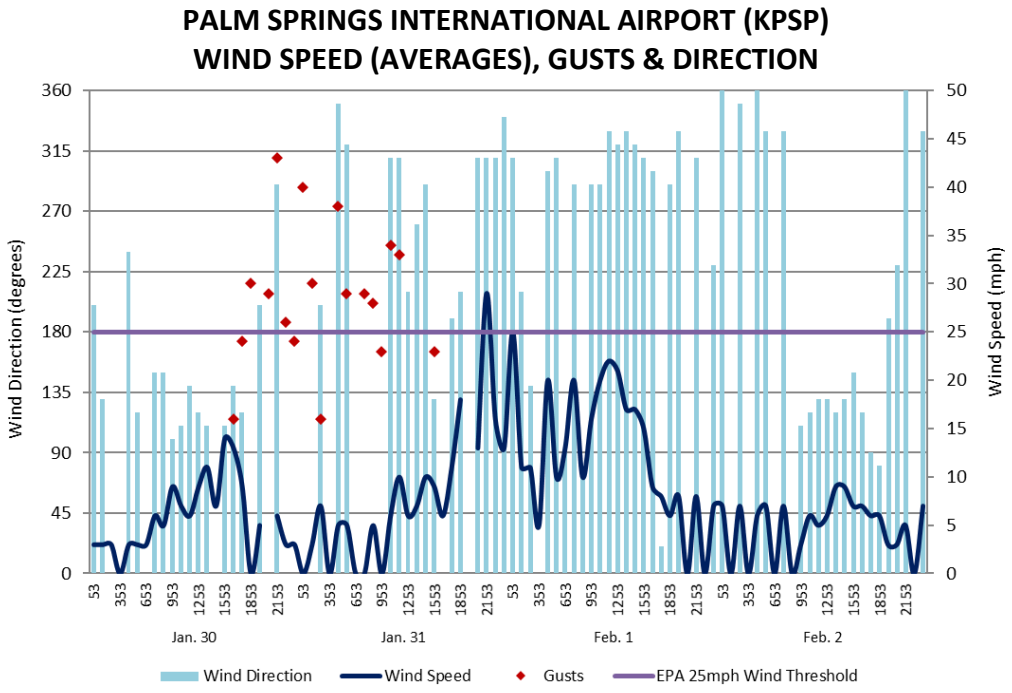


Fig B-22: Wind data from the NCEI's QCLCD system

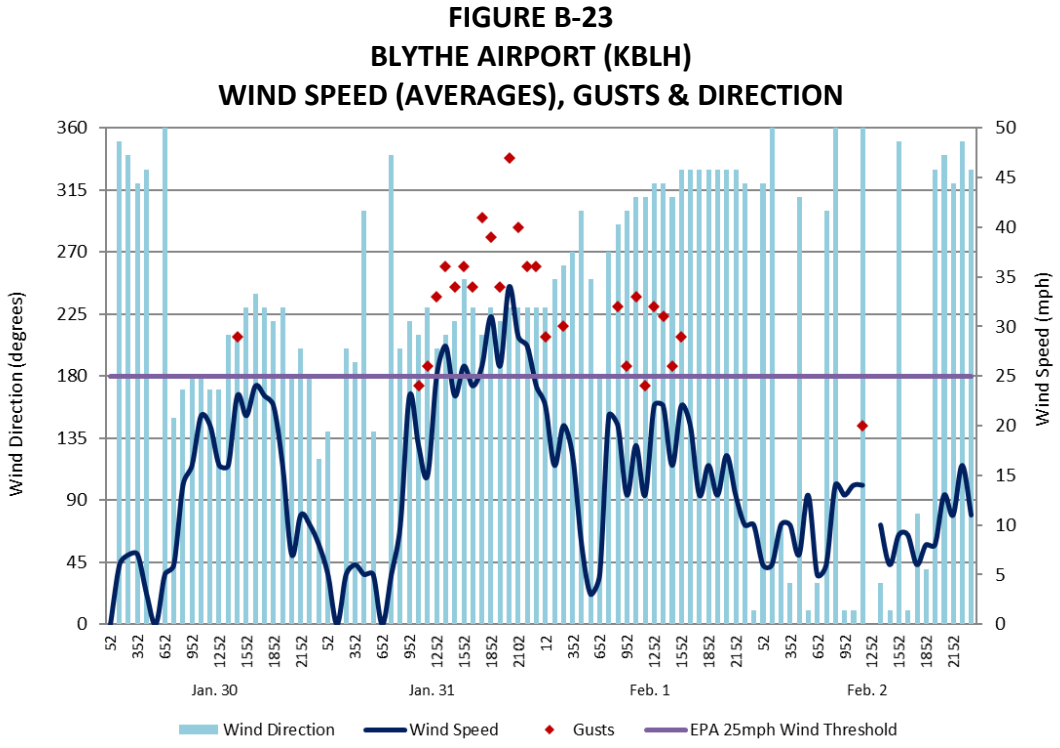


Fig B-23: Wind data from the NCEI's QCLCD system

SOUTHWESTERN ARIZONA

FIGURE B-24
YUMA MCAS (KNYL)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

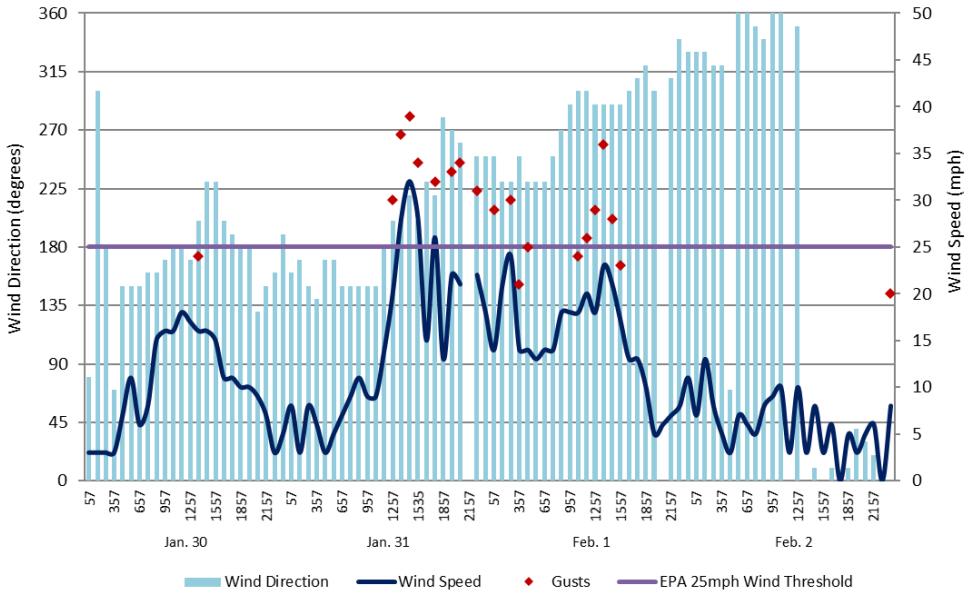


Fig B-24: Wind data from the NCEI's QCLCD system

SOUTHEASTERN SAN DIEGO COUNTY

FIGURE B-25
CAMPO AIRFIELD (KCZZ)
WIND SPEED (AVERAGES), GUSTS & DIRECTION

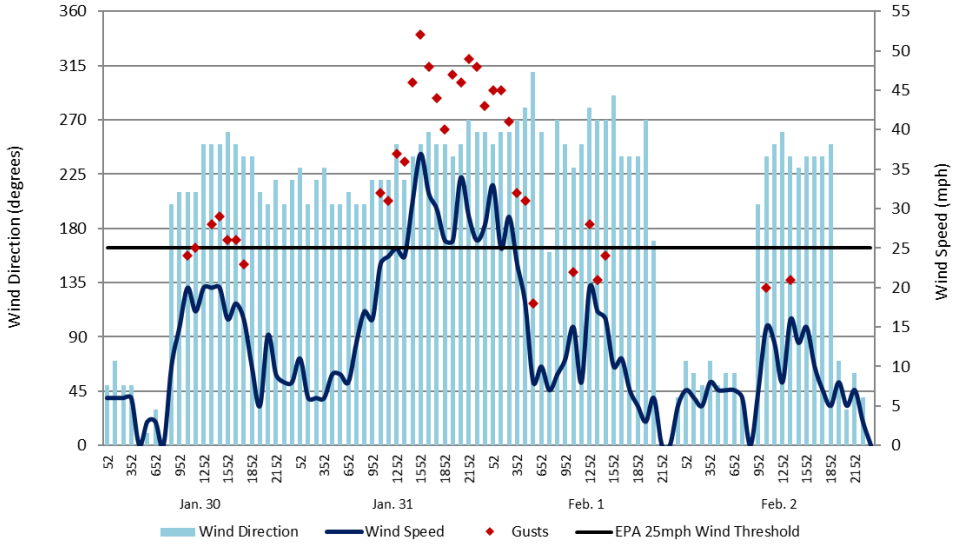


Fig B-25: Wind data from the NCEI's QCLCD system

UPSTREAM WIND SITES

FIGURE B-26
MOUNTAIN SPRINGS GRADE
WIND SPEED (AVERAGES), GUSTS & DIRECTION

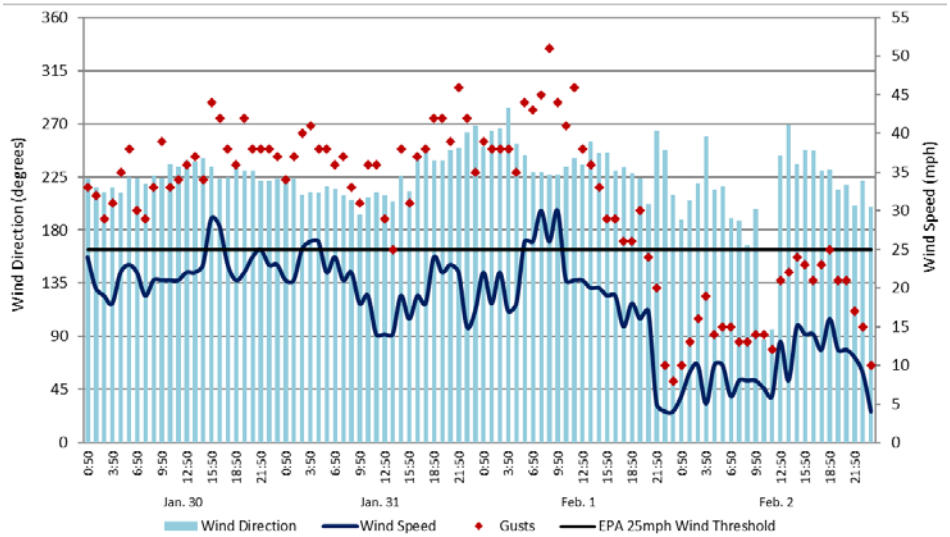


Fig B-26: Mountain Springs Grade is on the desert slope (elev. 2044 ft) of the Interstate 8 corridor as it descends to the desert floor. This canyon pass serves as a natural wind funnel to the valley below. University of Utah MesoWest Station ID TNSC1

FIGURE B-27
SUNRISE-OCOTILLO
WIND SPEED (AVERAGES), GUSTS & DIRECTION

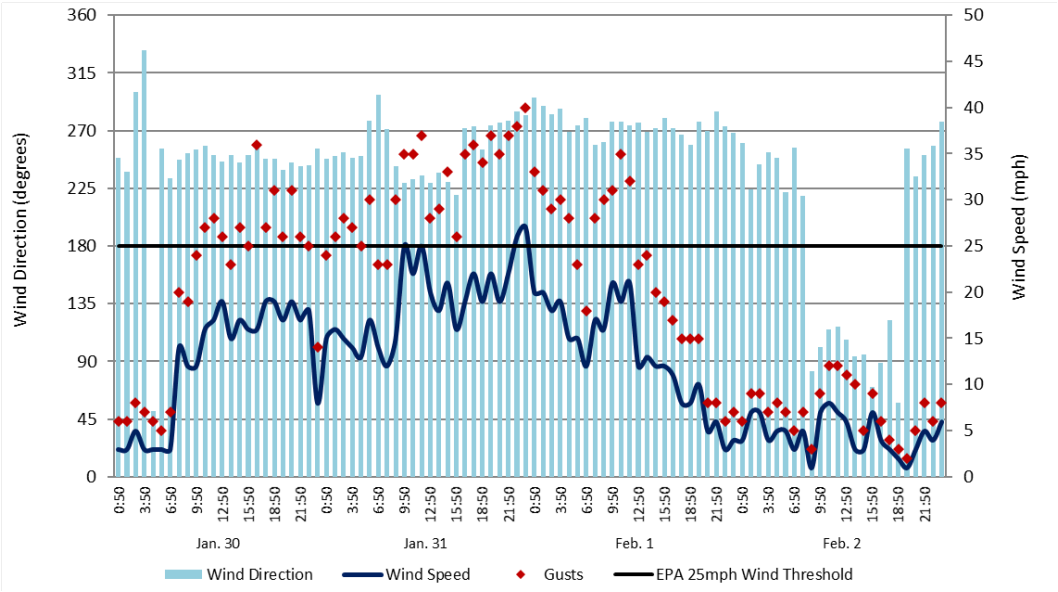


Fig B-27: Sunrise-Ocotillo is near the desert floor (elev. 695 ft). University of Utah MesoWest Station ID IMPSD

FIGURE B-28

FISH CREEK MOUNTAINS
WIND SPEED (AVERAGES), GUSTS & DIRECTION

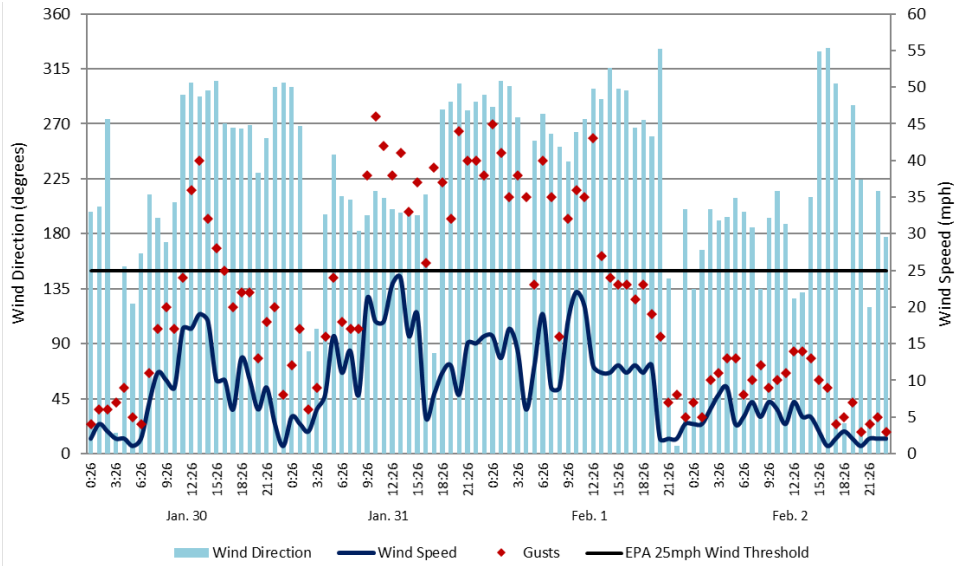
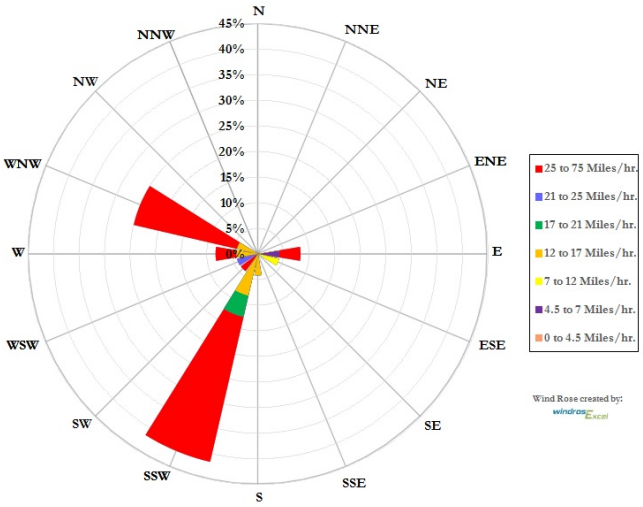


Fig B-28: The Fish Creek Mountains station is 781 feet above the desert floor. University of Utah MesoWest Station ID FHCC1

FIGURES B-29 & B-30
FISH CREEK MOUNTAINS WIND ROSE – JANUARY 31, 2016 & FEBRUARY 1, 2016



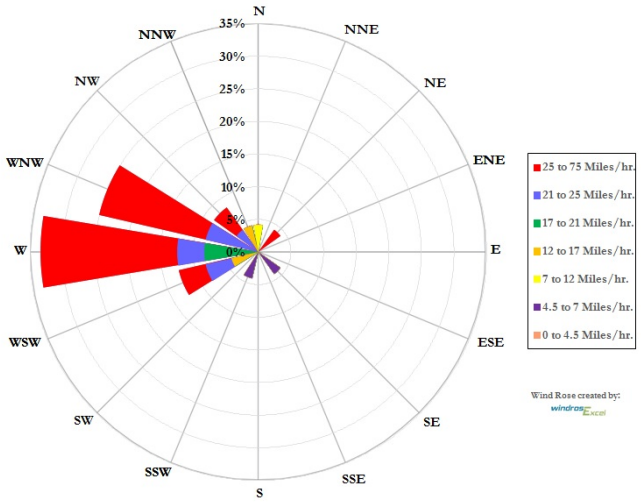


Fig B-29 & B-30: The above wind roses depict the direction of gusts (not winds) on January 31, 2016 and February 1, 2016. Winds shifted W-WNW on February 1, 2016. Although the site did not have winds above 25 mph, it did have gusts over 40 mph which played an important role in lofting and transporting dust downstream to Brawley, particularly on February 1, 2016

FIGURE B-31

IMPERIAL COUNTY AIRPORT (KIPL) QCLCD – JANUARY 31, 2016

4/6/2017 QUALITY CONTROLLED Local Climatological Data: IMPERIAL COUNTY AIRPORT

U.S. Department of Commerce
National Oceanic & Atmospheric Administration

QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA (final) HOURLY OBSERVATIONS TABLE IMPERIAL COUNTY AIRPORT (03144) IMPERIAL, CA (01/2016)

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801

Elevation: -58 ft. below sea level
Latitude: 32.834
Longitude: -115.578
Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Dry Bulb Temp (F)	Dry Bulb Temp (C)	Wet Bulb Temp (F)	Wet Bulb Temp (C)	Dew Point Temp (F)	Dew Point Temp (C)	Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alti-meter (in. hg)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
31	0053	12	CLR	10.00		63	17.2	55	12.7	48	8.9	58	13	240		29.94			29.88	AA		29.88
31	0153	12	CLR	10.00		64	17.8	55	12.9	48	8.9	56	18	250		29.93			29.86	AA		29.87
31	0253	12	CLR	10.00		65	18.3	55	12.9	47	8.3	52	23	260	29	29.91			29.84	AA		29.85
31	0353	12	CLR	10.00		64	17.8	54	12.4	46	7.8	52	18	270	28	29.89			29.83	AA		29.83
31	0453	12	CLR	10.00		63	17.2	54	12.2	46	7.8	54	14	260		29.90			29.84	AA		29.84
31	0553	12	CLR	10.00		57	13.9	50	10.2	44	6.7	62	6	170		29.91			29.85	AA		29.85
31	0653	12	CLR	10.00		57	13.9	50	10.2	44	6.7	62	7	120		29.91			29.85	AA		29.85
31	0753	12	CLR	10.00		58	14.4	51	10.5	44	6.7	60	8	170		29.92			29.85	AA		29.86
31	0853	12	CLR	10.00		64	17.8	55	12.7	47	8.3	54	10	200		29.92			29.85	AA		29.86
31	0953	12	CLR	10.00		68	20.0	57	13.6	47	8.3	47	13	160		29.90			29.84	AA		29.84
31	1053	12	CLR	10.00		70	21.1	57	14.1	47	8.3	44	11	170		29.89			29.82	AA		29.83
31	1153	12	CLR	10.00		71	21.7	58	14.5	48	8.9	44	9	130		29.84			29.78	AA		29.78
31	1253	12	SCT075	10.00		74	23.3	59	15.2	48	8.9	40	9	140		29.79			29.72	AA		29.73
31	1353	12	CLR	10.00		75	23.9	59	14.9	46	7.8	36	21	230	26	29.71			29.65	AA		29.65
31	1453	12	CLR	9.00		74	23.3	58	14.5	45	7.2	36	26	230	37	29.69			29.63	AA		29.63
31	1553	12	FEW110	10.00		70	21.1	57	13.6	45	7.2	41	21	230		29.66			29.60	AA	T	29.60
31	1650	12	BKN048 BKN070 OVC085	1.75	RA	63	17.0	58	14.4	54	12.0	73	24	240	37	29.70			M	SP		29.64
31	1651	12	BKN048 BKN070 OVC085	2.00	RA	63	17.0	58	14.4	54	12.0	73	21	240	37	29.69			M	SP		29.63
31	1653	12	BKN048 BKN070 OVC080	2.50	RA	62	16.7	57	13.8	53	11.7	73	22	250	37	29.69			29.63	AA	0.07	29.63
31	1700	12	SCT050 BKN070 OVC090	10.00	-RA	63	17.2	57	13.8	52	11.1	68	26	240	37	29.71			M	SP		29.65
31	1753	12	CLR	10.00		60	15.6	52	11.2	45	7.2	58	13	230		29.72			29.66	AA	T	29.66
31	1853	12	CLR	10.00		57	13.9	49	9.5	41	5.0	55	31	250	40	29.71			29.65	AA		29.65
31	1953	12	CLR	10.00		57	13.9	48	8.6	37	2.8	47	26	250	45	29.73			29.67	AA		29.67
31	2053	12	CLR	10.00		56	13.3	47	8.1	36	2.2	47	28	240	36	29.75			29.69	AA		29.69
31	2153	12	CLR	10.00		56	13.3	45	7.1	31	-0.6	39	31	250	38	29.78			29.72	AA		29.72
31	2253	12	CLR	10.00		55	12.8	44	6.6	30	-1.1	39	32	250	40	29.78			29.72	AA		29.72
31	2353	12	CLR	10.00		54	12.2	43	6.0	28	-2.2	37	21	250	29	29.78			29.72	AA		29.72

Dynamically generated Thu Apr 06 16:23:29 EDT 2017 via http://www.ncdc.noaa.gov/qclcd/QCLCD

FIGURE B-32

IMPERIAL COUNTY AIRPORT (KIPL) QCLCD – FEBRUARY 1, 2016

4/6/2017 QUALITY CONTROLLED Local Climatological Data: IMPERIAL COUNTY AIRPORT

U.S. Department of Commerce
National Oceanic & Atmospheric Administration

QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA (final) HOURLY OBSERVATIONS TABLE IMPERIAL COUNTY AIRPORT (03144) IMPERIAL, CA (02/2016)

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801

Elevation: -58 ft. below sea level
Latitude: 32.834
Longitude: -115.578
Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Dry Bulb Temp (F)	Dry Bulb Temp (C)	Wet Bulb Temp (F)	Wet Bulb Temp (C)	Dew Point Temp (F)	Dew Point Temp (C)	Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alti-meter (in. hg)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	0053	12	CLR	10.00		53	11.7	43	5.9	29	-1.7	40	21	260	31	29.79			29.73	AA		29.73
01	0153	12	FEW085	10.00		51	10.6	42	5.7	31	-0.6	46	9	260		29.81			29.75	AA		29.75
01	0228	12	BKN014 BKN110	4.00	HZ	52	11.1	42	5.4	28	-2.2	40	16	270		29.80			M	SP		29.74
01	0246	12	BKN016	8.00		51	10.6	42	5.3	29	-1.7	43	18	280	28	29.80			M	SP		29.74
01	0253	12	BKN016	4.00	HZ	52	11.1	42	5.6	29	-1.7	41	20	280	29	29.80			29.73	AA		29.74
01	0309	12	SCT017 BKN110	6.00	HZ	52	11.1	42	5.6	29	-1.7	41	17	280		29.80			M	SP		29.74
01	0353	12	FEW012 FEW120	10.00		51	10.6	42	5.7	31	-0.6	46	29	260	43	29.80			29.73	AA	T	29.74
01	0453	12	CLR	10.00		50	10.0	42	5.4	31	-0.6	48	20	260	26	29.81			29.75	AA		29.75
01	0553	12	CLR	10.00		51	10.6	41	4.9	27	-2.8	39	18	270		29.84			29.78	AA		29.78
01	0653	12	FEW120	10.00		51	10.6	41	5.0	27	-2.8	39	20	270		29.86			29.80	AA		29.80
01	0753	12	FEW011	4.00	HZ	54	12.2	42	5.7	26	-3.3	34	21	280	31	29.90			29.84	AA		29.84
01	0853	12	CLR	10.00		56	13.3	44	6.6	28	-2.2	34	21	270	28	29.94			29.88	AA		29.88
01	0953	12	CLR	10.00		59	15.0	45	7.2	27	-2.8	29	14	260		29.97			29.91	AA		29.91
01	1053	12	CLR	10.00		62	16.7	46	7.7	25	-3.9	24	25	270	33	29.96			29.90	AA		29.90
01	1153	12	CLR	10.00		63	17.2	47	8.1	26	-3.3	25	21	280	29	29.98			29.92	AA		29.92
01	1253	12	FEW050	10.00		64	17.8	47	8.4	26	-3.3	24	22	270	33	29.98			29.91	AA		29.92
01	1353	12	SCT080	10.00		62	16.7	46	7.7	25	-3.9	24	15	310	23	29.99			29.93	AA		29.93
01	1453	12	CLR	10.00		63	17.2	46	8.0	25	-3.9	24	21	290	28	30.00			29.94	AA		29.94
01	1553	12	SCT090	10.00		63	17.2	46	7.8	24	-4.4	23	16	330		30.03			29.97	AA		29.97
01	1653	12	CLR	10.00		59	15.0	45	7.1	26	-3.3	28	8	320		30.05			29.99	AA		29.99
01	1753	12	CLR	10.00		57	13.9	44	6.4	25	-3.9	29	9	300		30.08			30.02	AA		30.02
01	1853	12	CLR	10.00		55	12.8	43	6.0	26	-3.3	33	11	280		30.11			30.04	AA		30.05
01	1953	12	CLR	10.00		50	10.0	41	4.9	28	-2.2	43	11	260		30.13			30.07	AA		30.07
01	2053	12	CLR	10.00		48	8.9	40	4.4	29	-1.7	48	8	250		30.16			30.09	AA		30.10
01	2153	12	CLR	10.00		47	8.3	39	3.8	27	-2.8	46	5	270		30.17			30.11	AA		30.11
01	2253	12	CLR	10.00		50	10.0	39	4.0	23	-5.0	35	7	360		30.19			30.12	AA		30.13
01	2353	12	CLR	10.00		46	7.8	38	3.5	27	-2.8	48	6	310		30.18			30.12	AA		30.12

Dynamically generated Thu Apr 06 16:24:08 EDT 2017 via http://www.ncdc.noaa.gov/qclcd/QCLCD

FIGURE B-33

EL CENTRO NAF (KNJK) QCLCD - JANUARY 31, 2016

4/6/2017

QUALITY CONTROLLED Local Climatological Data: NAF

U.S. Department of Commerce
National Oceanic & Atmospheric Administration

QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA (may be updated) HOURLY OBSERVATIONS TABLE NAF (23199) EL CENTRO, CA (01/2016)

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801

Elevation: -42 ft. below sea level
Latitude: 32.816
Longitude: -115.683
Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Dry Bulb Temp (F)	Dry Bulb Temp (C)	Wet Bulb Temp (F)	Wet Bulb Temp (C)	Dew Point Temp (F)	Dew Point Temp (C)	Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alti-meter (in. hg)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
31	0056	5	CLR	10.00		64	17.8	55	12.7	47	8.3	54	18	250		29.94			29.94	AA	T	29.90
31	0156	5	CLR	10.00	-RA	65	18.3	55	12.9	47	8.3	52	25	250	33	29.93			29.93	AA	T	29.89
31	0256	5	CLR	10.00	-RA	64	17.8	55	12.7	47	8.3	54	24	260		29.92			29.92	AA	T	29.88
31	0356	5	CLR	10.00	-RA	64	17.8	54	12.4	46	7.8	52	22	260		29.90			29.91	AA	T	29.86
31	0456	5	CLR	10.00		63	17.2	54	12.0	45	7.2	52	20	270		29.90			29.91	AA	T	29.86
31	0556	5	CLR	10.00		63	17.2	53	11.7	44	6.7	50	8	250		29.90			29.91	AA		29.86
31	0656	5	CLR	10.00	-RA	64	17.8	54	12.2	45	7.2	50	26	260	33	29.90			29.90	AA	T	29.86
31	0756	5	CLR	10.00	-RA	66	18.9	55	12.9	46	7.8	49	23	280		29.92			29.92	AA	T	29.88
31	0856	5	CLR	10.00		64	17.8	54	12.4	46	7.8	52	7	150		29.92			29.92	AA	T	29.88
31	0956	5	CLR	10.00		69	20.6	57	13.9	47	8.3	46	15	160		29.90			29.90	AA		29.86
31	1056	5	CLR	10.00		70	21.1	57	13.8	46	7.8	42	14	150		29.88			29.88	AA		29.84
31	1156	5	SCT080	10.00		72	22.2	58	14.3	46	7.8	40	9	150		29.83			29.83	AA		29.79
31	1254	5	CLR	10.00	-RA	75	24.0	59	14.7	45	7.0	34	28	230		29.79			M	SP		29.75
31	1256	5	CLR	10.00	-RA	75	23.9	58	14.5	44	6.7	33	28	230		29.78			29.79	AA	T	29.74
31	1356	5	CLR	10.00	-RA	74	23.3	58	14.5	45	7.2	36	23	230		29.71			29.71	AA	T	29.67
31	1456	5	CLR	10.00	-RA	71	21.7	57	14.0	46	7.8	41	31	240	40	29.71			29.71	AA	T	29.67
31	1556	5	SCT100	10.00	-RA	69	20.6	56	13.1	44	6.7	41	25	220		29.68			29.68	AA	T	29.64
31	1656	5	SCT055 BKN070 OVC090	10.00	-RA	63	17.2	56	13.5	51	10.6	65	23	230	32	29.71			29.72	AA	0.02	29.67
31	1756	5	CLR	10.00	-RA	59	15.0	50	10.2	42	5.6	54	24	240	32	29.71			29.71	AA	T	29.67
31	1806	5	FEW006	7.00	-RA	59	15.0	50	10.0	41	5.0	51	36	250	45	29.70			M	SP		29.66
31	1856	5	CLR	10.00	-RA	58	14.4	49	9.3	39	3.9	49	33	250	44	29.73			29.73	AA	T	29.69
31	1956	5	CLR	9.00	-RA	57	13.9	47	8.1	35	1.7	44	31	250	47	29.74			29.75	AA	T	29.70
31	2056	5	CLR	10.00	-RA	56	13.3	46	7.5	33	0.6	42	28	250	44	29.77			29.78	AA	T	29.73
31	2156	5	CLR	10.00	-RA	56	13.3	45	6.9	30	-1.1	37	30	250	39	29.80			29.80	AA	T	29.76
31	2256	5	FEW075	7.00	-RA	54	12.2	43	6.0	28	-2.2	37	28	260	41	29.80			29.80	AA	T	29.76
31	2356	5	CLR	10.00	-RA	53	11.7	42	5.5	27	-2.8	37	21	240		29.79			29.80	AA	T	29.75

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FIGURE B-34
EL CENTRO NAF (KNJK) QCLCD - FEBRUARY 1, 2016

4/6/2017

QUALITY CONTROLLED Local Climatological Data: NAF

U.S. Department of Commerce
National Oceanic & Atmospheric Administration

QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA (may be updated) HOURLY OBSERVATIONS TABLE NAF (23199) EL CENTRO, CA (02/2016)

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801

Elevation: -42 ft. below sea level
Latitude: 32.816
Longitude: -115.683
Data Version: VER2

Date	Time (LST)	Station Type	Sky Conditions	Visibility (SM)	Weather Type	Dry Bulb Temp (F)	Dry Bulb Temp (C)	Wet Bulb Temp (F)	Wet Bulb Temp (C)	Dew Point Temp (F)	Dew Point Temp (C)	Rel Humd %	Wind Speed (MPH)	Wind Dir	Wind Gusts (MPH)	Station Pressure (in. hg)	Press Tend	Net 3-hr Chg (mb)	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alti-meter (in. hg)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	0056	5	FEW070 BKN090	10.00	-RA	53	11.7	42	5.7	28	-2.2	38	18	260	30	29.81			29.81	AA	T	29.77
01	0156	5	FEW075 SCT090	10.00		52	11.1	42	5.6	29	-1.7	41	14	270		29.81			29.81	AA	T	29.77
01	0220	5	BKN015 BKN075	5.00	-RA	52	11.1	41	5.1	26	-3.3	37	18	270	30	29.81			M	SP		29.77
01	0228	5	SCT013	6.00	HZ	51	10.6	41	4.9	27	-2.8	39	14	290		29.81			M	SP		29.77
01	0256	5	BKN080	10.00		51	10.6	41	4.9	27	-2.8	39	10	290		29.81			29.81	AA	T	29.77
01	0356	5	FEW120	10.00	-RA	50	10.0	42	5.4	31	-0.6	48	33	250	44	29.81			29.81	AA	T	29.77
01	0456	5	CLR	10.00	-RA	52	11.1	41	5.1	26	-3.3	37	24	280	34	29.82			29.82	AA	T	29.78
01	0556	5	FEW060 BKN180 BKN280	10.00		52	11.1	41	4.9	25	-3.9	35	24	270	34	29.85			29.85	AA	T	29.81
01	0656	5	FEW060 SCT180 BKN280	10.00		53	11.7	41	4.9	23	-5.0	31	22	280	30	29.88			29.89	AA		29.84
01	0756	5	FEW060	10.00		54	12.2	42	5.7	26	-3.3	34	18	260		29.92			29.93	AA		29.88
01	0856	5	FEW060	10.00		56	13.3	43	6.1	25	-3.9	30	22	260		29.95			29.96	AA		29.91
01	0956	5	FEW060	10.00		58	14.4	44	6.6	25	-3.9	28	20	270		29.97			29.97	AA		29.93
01	1056	5	SCT029	8.00		60	15.6	44	6.9	23	-5.0	24	26	280	33	29.99			30.00	AA		29.95
01	1156	5	FEW060	10.00		61	16.1	45	7.3	24	-4.4	24	23	280	32	29.99			29.99	AA		29.95
01	1256	5	FEW060	10.00		63	17.2	46	8.0	25	-3.9	24	26	270	33	29.99			29.99	AA		29.95
01	1356	5	SCT080 SCT280	10.00		63	17.2	46	7.5	22	-5.6	21	22	310	28	30.00			30.00	AA		29.96
01	1456	5	FEW080 FEW250	10.00		64	17.8	46	7.8	22	-5.6	20	21	290	29	30.01			30.02	AA		29.97
01	1556	5	FEW085 SCT250	10.00		62	16.7	45	7.3	22	-5.6	21	20	300		30.04			30.04	AA		30.00
01	1656	5	FEW085 SCT250	10.00		59	15.0	44	6.5	22	-5.6	24	20	280		30.05			30.06	AA	T	30.01
01	1756	5	FEW085 SCT250	10.00		57	13.9	43	5.9	22	-5.6	26	15	280		30.09			30.10	AA		30.05
01	1856	5	FEW090 FEW250	10.00		55	13.0	42	5.6	24	-4.4	30	18	290		30.11			30.12	AA		30.07
01	1956	5	FEW090 FEW250	10.00		54	12.2	42	5.5	25	-3.9	33	14	260		30.14			30.14	AA		30.10
01	2056	5	FEW090 FEW250	10.00		48	8.9	39	3.7	25	-3.9	41	6	280		30.16			30.16	AA		30.12
01	2156	5	FEW100 FEW250	10.00		49	9.4	39	3.7	23	-5.0	36	9	290		30.18			30.18	AA		30.14
01	2256	5	FEW100 FEW250	10.00		48	8.9	38	3.3	22	-5.6	36	11	330		30.19			30.19	AA		30.15
01	2356	5	CLR	10.00		M	M	M	M	M	M	M	6	280		30.18			30.19	AA		30.14

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