Appendix B
Meteorological Data

FIGURE B-1
METEOROLOGICAL SITES WITHIN IMPERIAL, RIVERSIDE AND YUMA COUNTIES

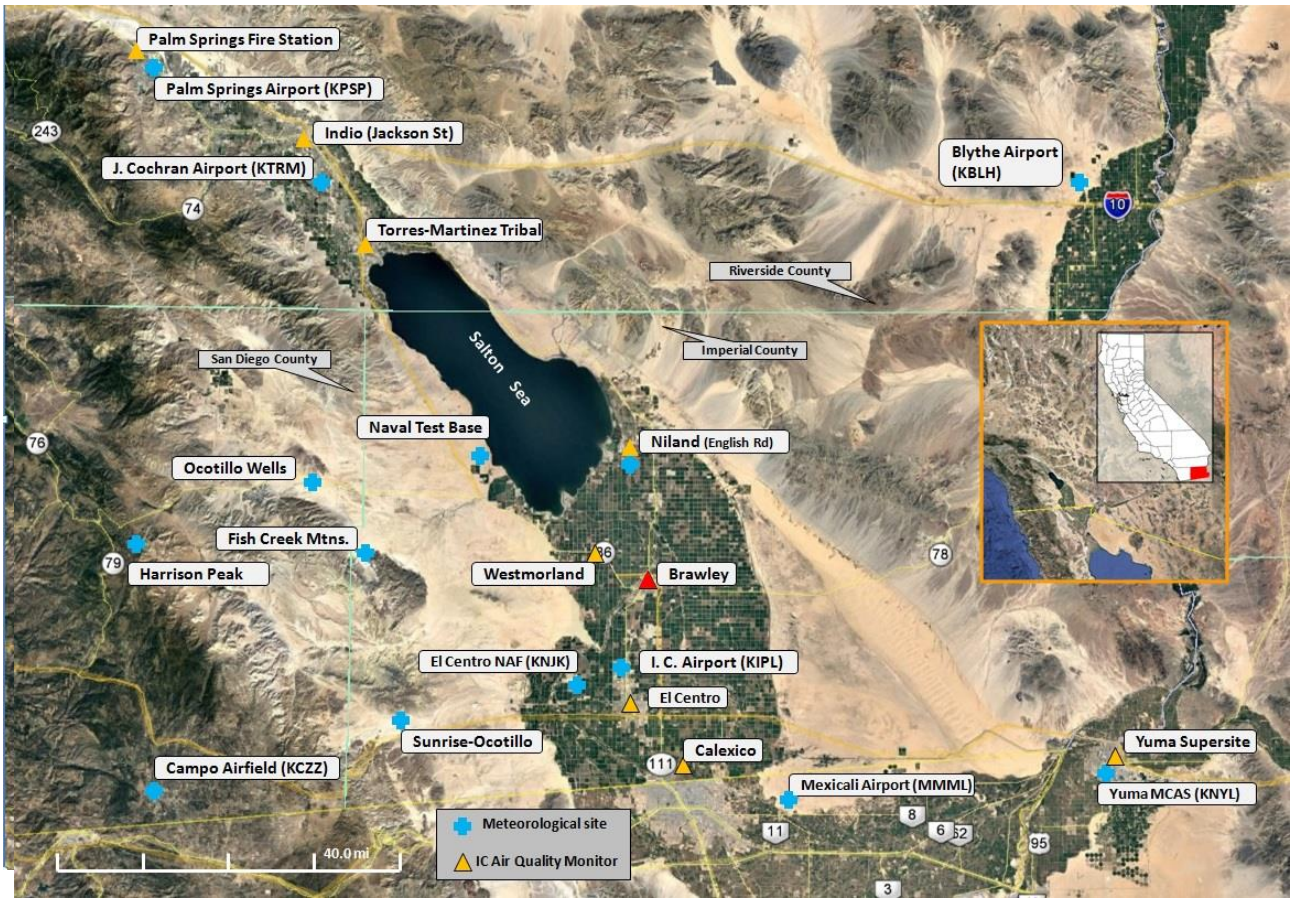


Fig B-1: This map shows a collection of meteorological sites used in this document, along with air quality monitoring stations in Imperial County. See **Figure 2-5** for air quality sites in the region. Base map form Google Earth

The following graphs contain wind speed[1] and wind direction data collected from various sites in southeastern California and southwestern Arizona.

[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]

IMPERIAL COUNTY METEOROLOGICAL SITES
FIGURES B-2 THROUGH B-6

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

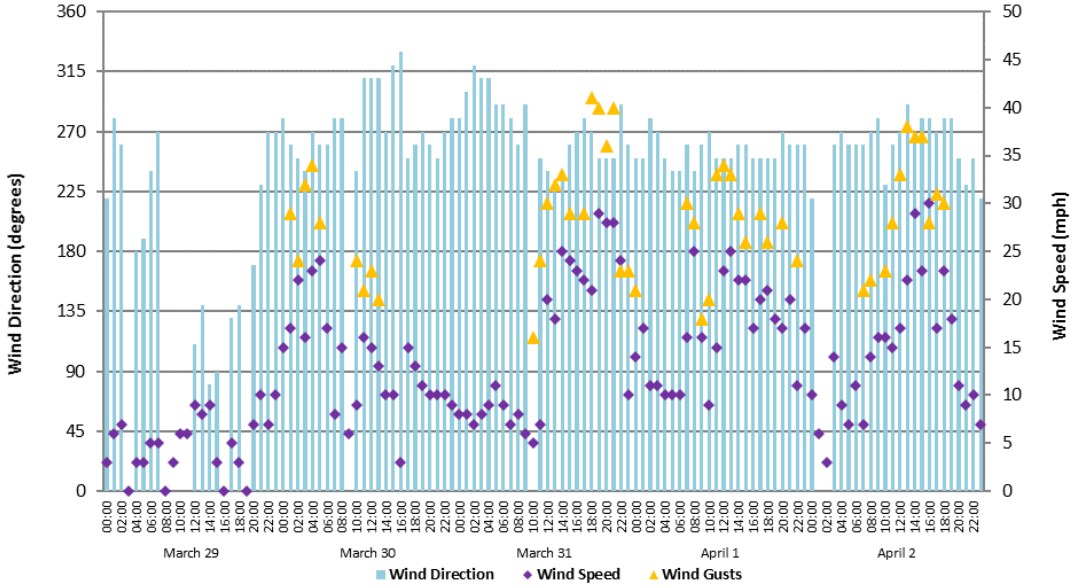
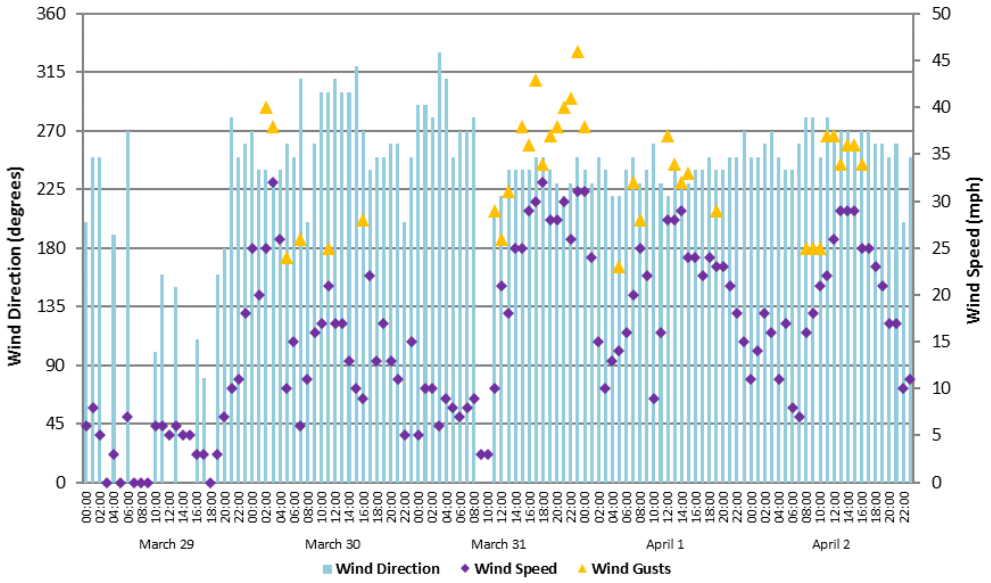


FIGURE B-3
EL CENTRO NAF (KNJK)
WIND SPEED, GUSTS & DIRECTION



Figs B-2 through B-3: Five-day meteorological data for Imperial Airport and the El Centro Naval Air Facility. Both show gusty winds ramping up on March 30, 2014, lessening on March 31, 2014, then increasing on April 1, 2014. Data from the NCEI's QCLCD data bank

FIGURE B-4
IMPERIAL AIRPORT WIND ROSE FOR MARCH 29, 2014 TO APRIL 2, 2014

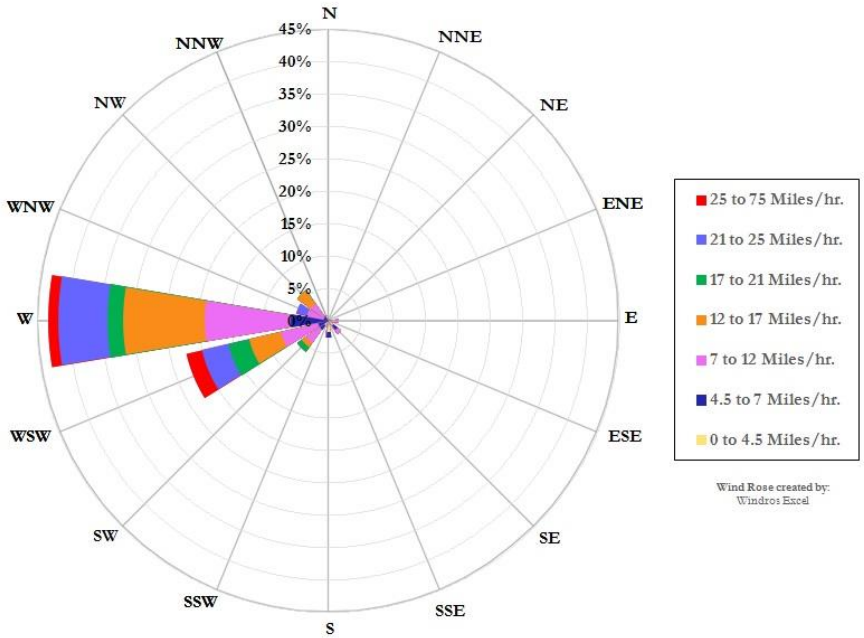


FIGURE B-5
EL CENTRO NAF WIND ROSE FOR MARCH 29, 2014 TO APRIL 2, 2014

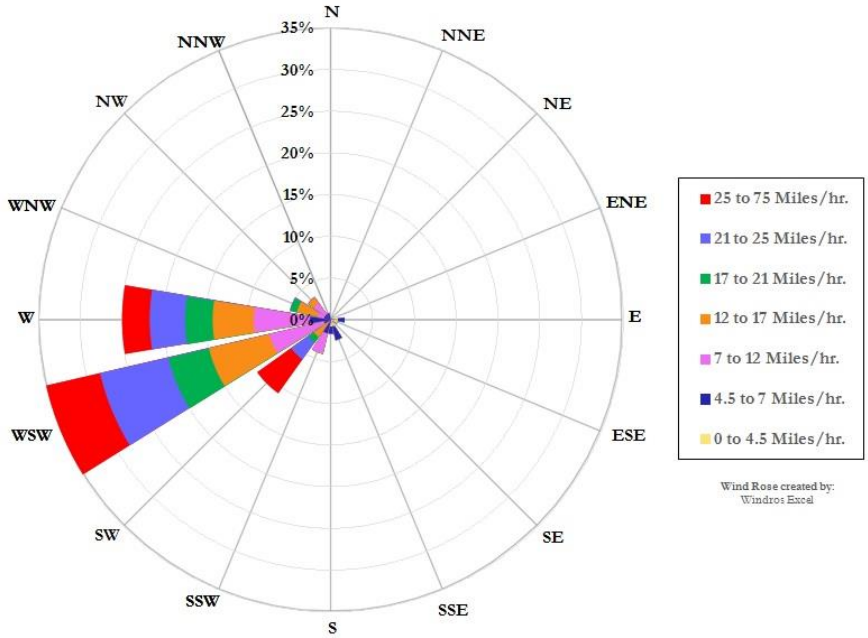


Fig B-4 & B-5: Wind roses for Imperial County Airport and El Centro NAF over a five-day period show strongest winds were from the west and west-southwest. Gusts are not included. Data from the NCEI's QCLCD data bank

FIGURE B-6
NILAND (ENGLISH RD.) MARCH 29, 2014 TO APRIL 2, 2014
WIND SPEED & DIRECTION

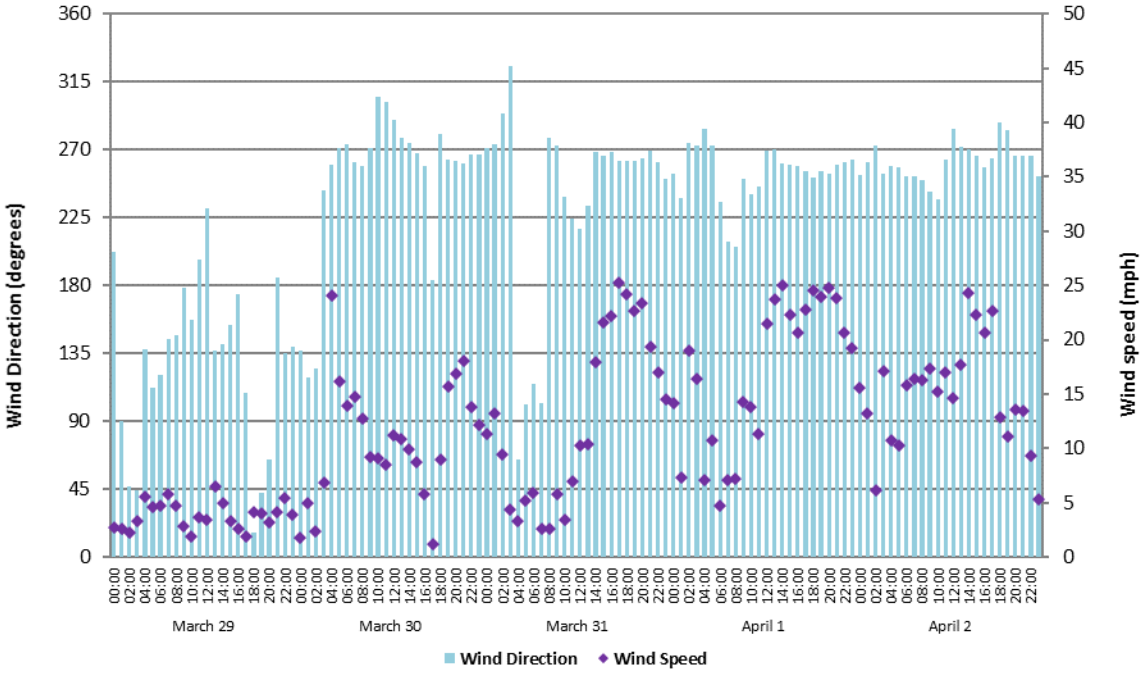


Fig B-6: Niland (English Rd) shows winds increasing on March 30, 2014 and April 1, 2014, but they were not as strong as Imperial Airport and El Centro NAF that were closer to Brawley. Wind data from the EPA's AQS data bank

RIVERSIDE COUNTY METEOROLOGICAL SITES

The following sites are location in eastern Riverside County. Palm Springs Airport (KPSP) and Jacqueline Cochran Regional Airport (KTRM) are upstream (to the northwest of Brawley). Blythe Airport is downstream (northeast) of Brawley. All show an increase in wind speed and gusts on March 30, 2014 and April 1, 2014 during the days Brawley experienced an exceedance. Data from the NCEI's QCLCD data bank.

FIGURE B-7
PALM SPRINGS AIRPORT (KPSP) MARCH 29, 2014 TO APRIL 2, 2014
WIND SPEED, GUSTS & DIRECTION

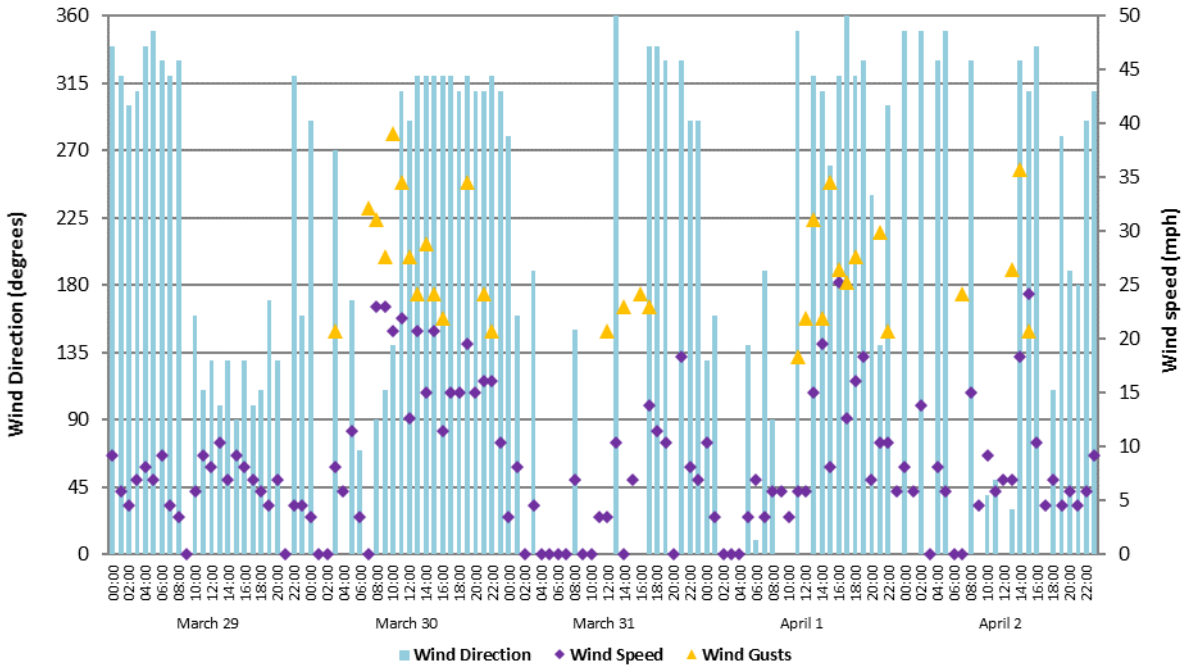


FIGURE B-8
JACQUELINE COCHRAN REGIONAL AIRPORT MARCH 29, 2014 TO APRIL 2, 2014
WIND SPEED, GUSTS & DIRECTION

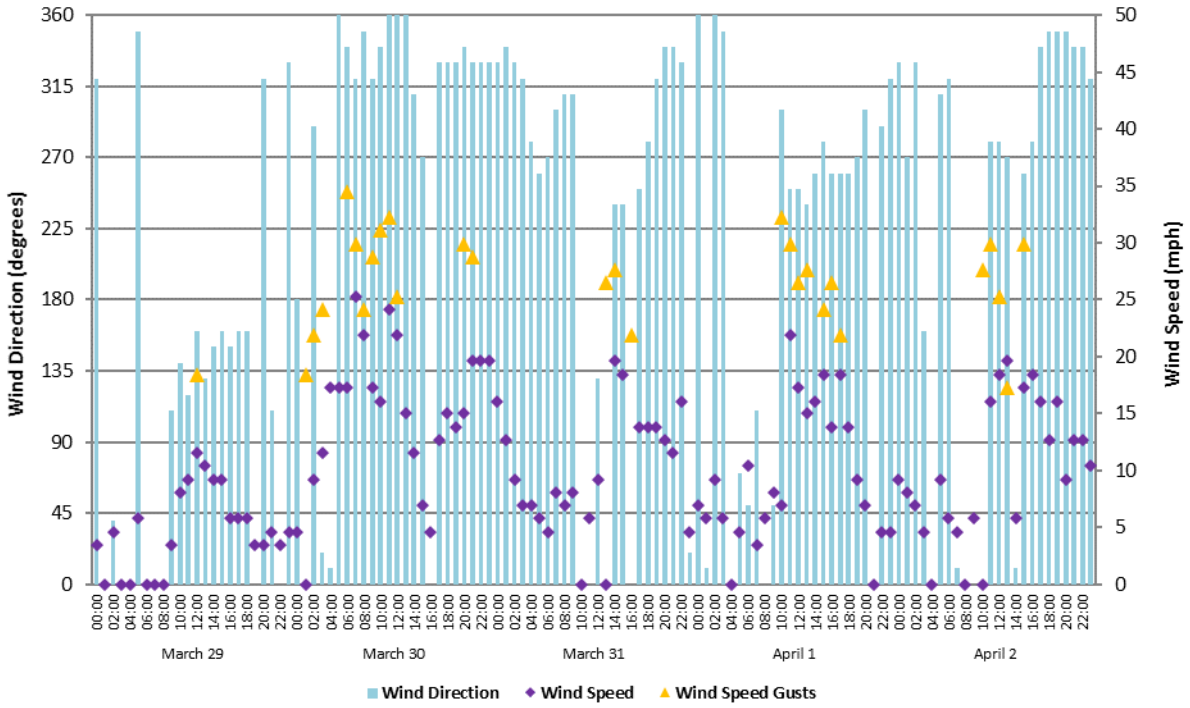
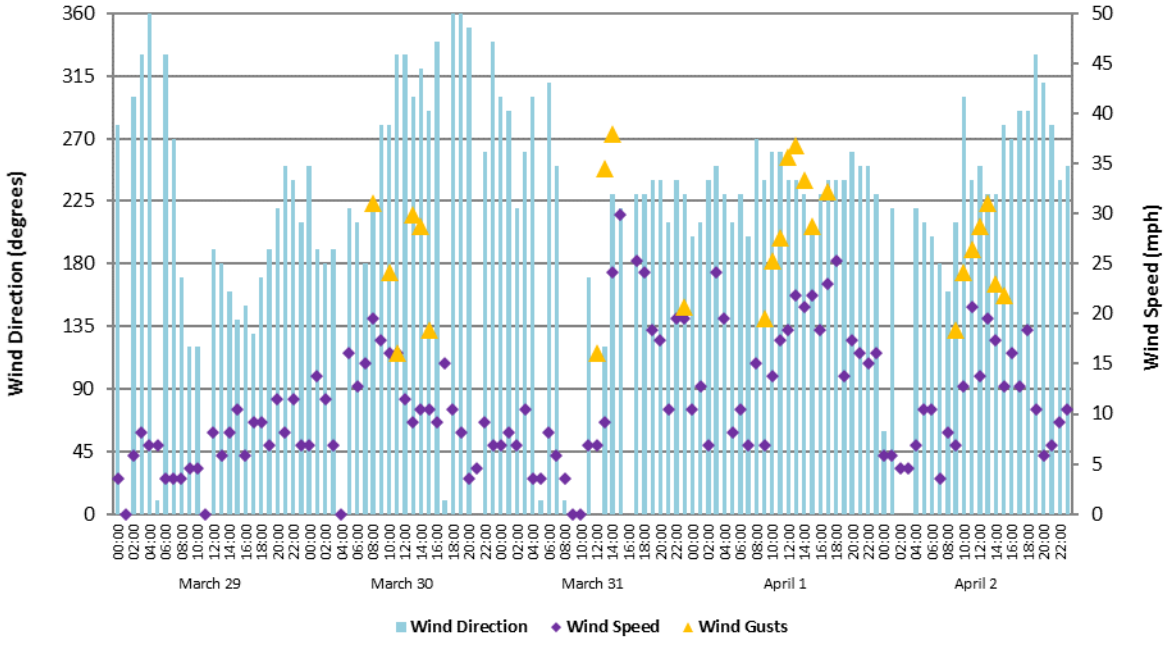


FIGURE B-9
BLYTHE AIRPORT (KBLH) MARCH 29, 2014 TO APRIL 2, 2014
WIND SPEED, GUSTS & DIRECTION



SOUTHEASTERN SAN DIEGO COUNTY

FIGURE B-10
CAMPO AIRPORT (KCZZ) MARCH 29, 2014 TO APRIL 2, 2014
WIND SPEED, GUSTS & DIRECTION

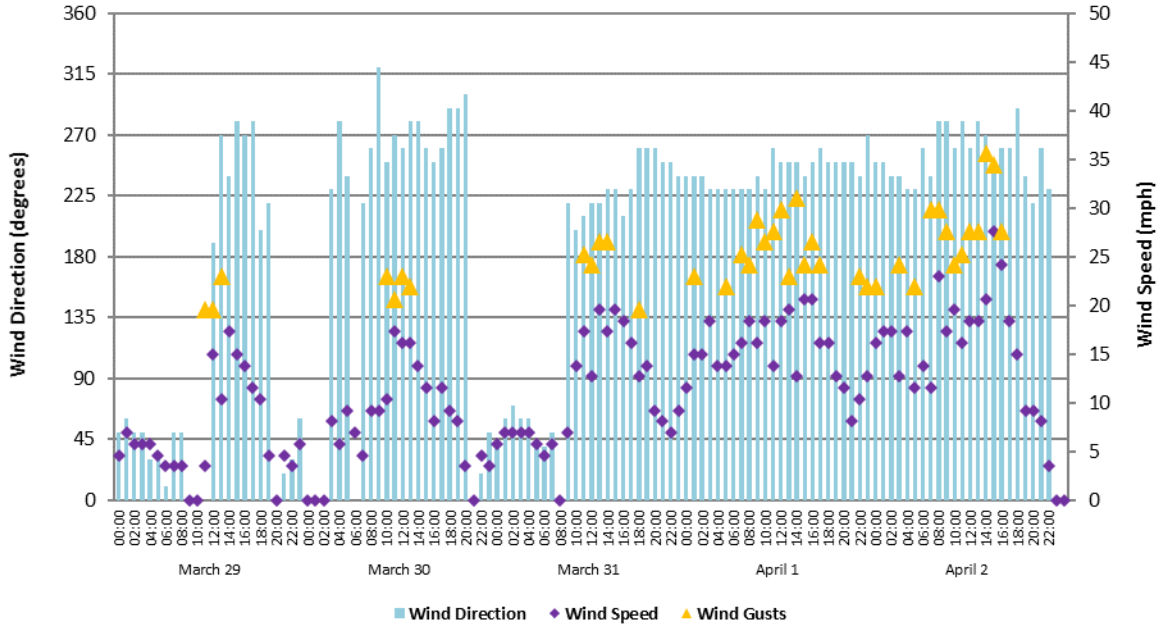


Fig B-10: Campo Airfield in southeastern San Diego upstream from Brawley experienced high winds and gusts on March 30, 2014 and April 1, 2014. Data from the NCEI's QCLCD data bank

SOUTHWESTERN ARIZONA

FIGURE B-11
YUMA (ARIZONA) MCAS (KNYL) MARCH 29, 2014 TO APRIL 2, 2014
WIND SPEED, GUSTS & DIRECTION

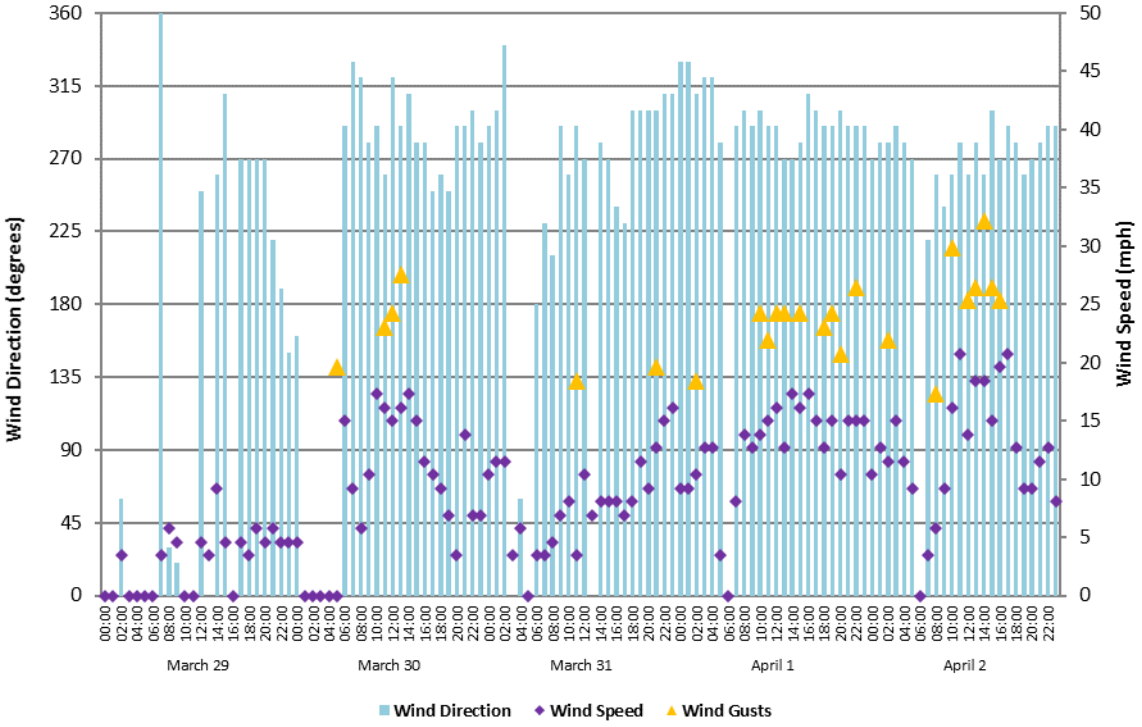


Fig B-11: The Yuma MCAS in Yuma, Arizona, to the southeast (downstream) from Brawley experienced high winds on March 30, 2014 and April 1, 2014, the same days Brawley experienced exceedances. Data from the NCEI's QCLCD data bank

Figures B-12 and B-13 show wind speed, wind gusts, and wind direction from two critical upstream sites at the Fish Creek Mountains and Ocotillo Wells. The strong winds passing over the arid, mostly barren surfaces in this region lofted and transported dust downstream.

FIGURE B-12
FISH CREEK MOUNTAINS MARCH 30, 2014 TO APRIL 2, 2014
WIND SPEED, GUSTS & DIRECTION

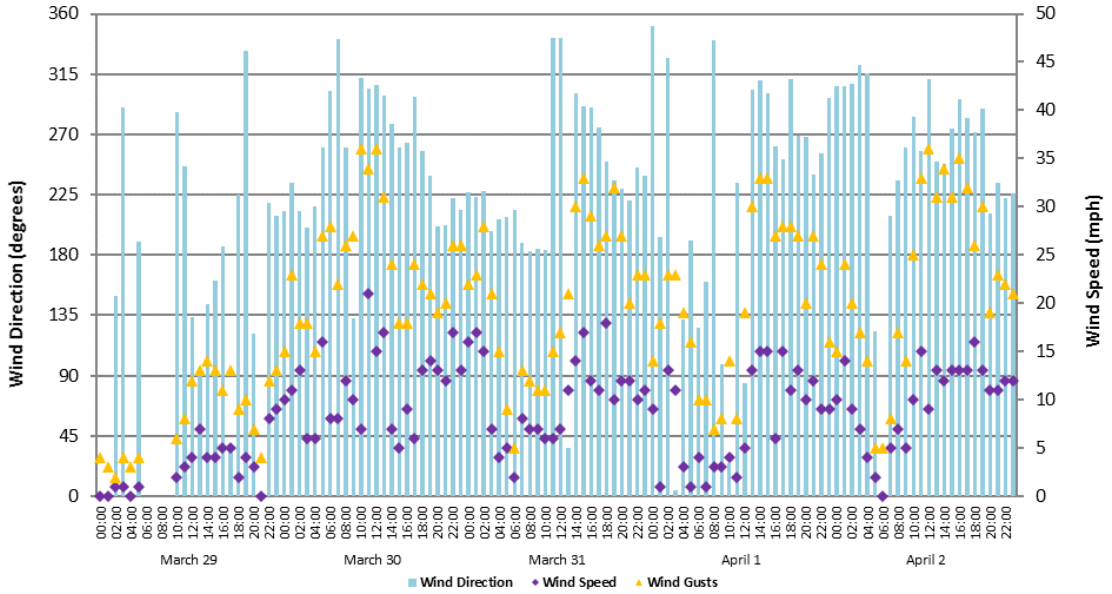
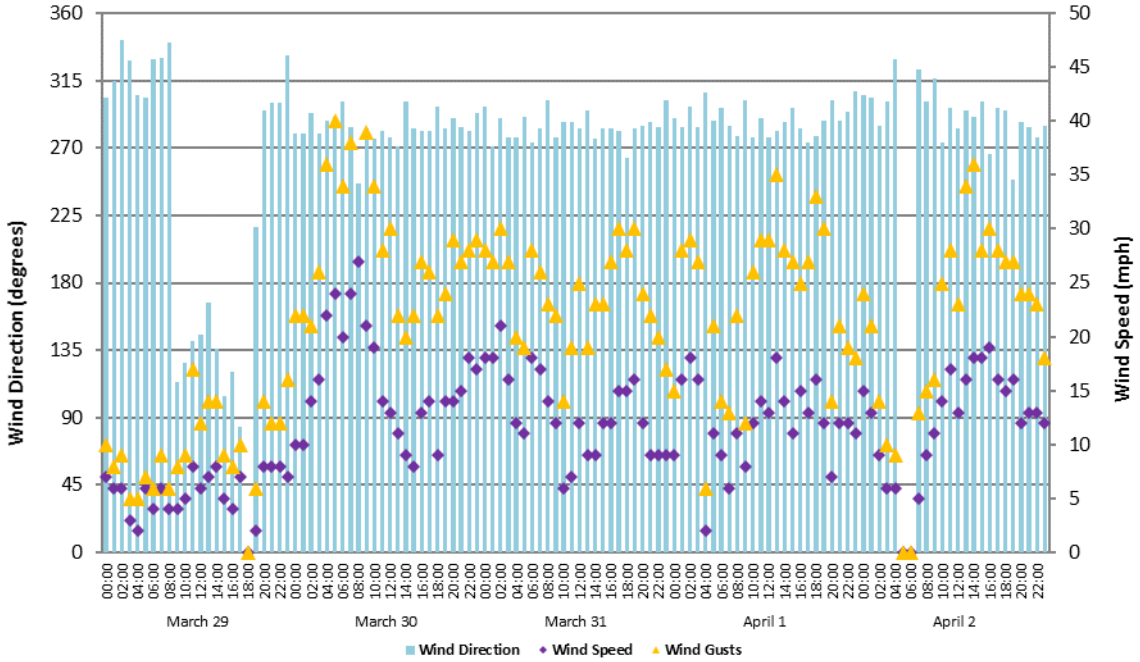


FIGURE B-13
OCOTILLO WELLS MARCH 29, 2014 TO APRIL 2, 2014
WIND SPEED, GUSTS & DIRECTION



Figs B-12 and B-13: Strong winds and powerful gusts recorded at the Fish Creek Mountains and Ocotillo Wells were instrumental in lofting and transporting dust. Wind data from the University of Utah's MesoWest data bank

FIGURE B-14
IMPERIAL COUNTY AIRPORT QCLCD DATA MARCH 30, 2014 & APRIL 1, 2014

12/9/2015 QUALITY CONTROLLED Local Climatological Data: IMPERIAL COUNTY AIRPORT

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

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

QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA (final)
HOURLY OBSERVATIONS TABLE
IMPERIAL COUNTY AIRPORT (03144)
IMPERIAL, CA
(03/2014)

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
30	0053	12	CLR	10.00		72	22.2	54	12.3	37	2.8	28	15	280		29.89			29.83	AA		29.83
30	0153	12	CLR	10.00		70	21.1	54	12.1	38	3.3	31	17	260		29.87			29.81	AA		29.81
30	0253	12	CLR	10.00		72	22.2	54	12.1	36	2.2	27	22	250	29	29.87			29.81	AA		29.81
30	0353	12	CLR	10.00		71	21.7	55	12.5	39	3.9	31	16	240	24	29.88			29.82	AA		29.82
30	0429	12	CLR	10.00		67	19.4	54	12.2	42	5.6	40	23	270	32	29.89			M	SP		29.83
30	0453	12	CLR	10.00		66	18.9	54	12.0	42	5.6	42	23	270	32	29.90			29.84	AA		29.84
30	0553	12	CLR	10.00		65	18.3	53	11.7	42	5.6	43	24	260	34	29.92			29.85	AA		29.86
30	0653	12	CLR	10.00		65	18.3	54	12.2	44	6.7	47	17	260	28	29.94			29.88	AA		29.88
30	0753	12	CLR	10.00		68	20.0	55	12.9	44	6.7	42	8	280		29.97			29.91	AA		29.91
30	0832	12	BKN017	4.00	HZ	70	21.1	57	13.8	46	7.8	42	11	290		29.97			M	SP		29.91
30	0851	12	OVC019	2.50	HZ	72	22.0	57	14.1	45	7.0	38	15	270		29.97			M	SP		29.91
30	0853	12	BKN019 OVC031	2.50	HZ	72	22.2	57	13.8	44	6.7	37	15	280		29.96			29.90	AA		29.90
30	0902	12	BKN022 OVC031	3.00	HZ	74	23.3	58	14.5	45	7.2	36	13	290	21	29.96			M	SP		29.90
30	0931	12	BKN026 BKN035	10.00		73	22.8	57	13.8	43	6.1	34	6	VR		29.96			M	SP		29.90
30	0948	12	FEW028	10.00		73	23.0	57	13.8	43	6.0	34	5	VR		29.97			M	SP		29.91
30	0953	12	FEW030	10.00		74	23.3	57	13.8	42	5.6	32	6	VR		29.96			29.90	AA		29.90
30	1053	12	CLR	10.00		78	25.6	55	12.7	31	-0.6	18	9	240		29.95			29.89	AA		29.89
30	1153	12	CLR	10.00		80	26.7	54	12.0	23	-5.0	12	16	310	24	29.93			29.87	AA		29.87
30	1253	12	CLR	10.00		82	27.8	56	13.1	28	-2.2	14	15	310	21	29.93			29.87	AA		29.87
30	1353	12	CLR	10.00		82	27.8	55	13.0	27	-2.8	13	13	310	23	29.91			29.85	AA		29.85
30	1453	12	CLR	10.00		82	27.8	55	12.8	26	-3.3	13	10	270	20	29.90			29.84	AA		29.84
30	1553	12	CLR	10.00		82	27.8	56	13.2	29	-1.7	14	10	320		29.88			29.83	AA		29.82
30	1653	12	CLR	10.00		82	27.8	55	12.8	26	-3.3	13	3	330		29.89			29.82	AA		29.83
30	1753	12	CLR	10.00		76	24.4	56	13.1	36	2.2	23	15	250		29.89			29.83	AA		29.83
30	1853	12	CLR	10.00		70	21.1	54	12.3	39	3.9	32	13	260		29.91			29.85	AA		29.85
30	1953	12	CLR	10.00		67	19.4	53	11.6	39	3.9	36	11	270		29.94			29.88	AA		29.88
30	2053	12	CLR	10.00		64	17.8	51	10.4	37	2.8	37	10	260		29.96			29.90	AA		29.90
30	2153	12	CLR	10.00		63	17.2	50	10.1	37	2.8	38	10	250		29.96			29.90	AA		29.90
30	2253	12	CLR	10.00		61	16.1	50	9.8	38	3.3	43	10	270		29.96			29.90	AA		29.90
30	2353	12	CLR	10.00		60	15.6	48	8.8	34	1.1	38	9	280		29.98			29.91	AA		29.92

Dynamically generated Wed Dec 09 19:50:55 EST 2015 via http://www.ncdc.noaa.gov/qclcd/QCLCD

12/9/2015 QUALITY CONTROLLED Local Climatological Data: IMPERIAL COUNTY AIRPORT

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

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

QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA (final)
HOURLY OBSERVATIONS TABLE
IMPERIAL COUNTY AIRPORT (03144)
IMPERIAL, CA
(04/2014)

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		59	15.0	49	9.3	38	3.3	46	14	250	23	29.99			29.93	AA		29.93
01	0153	12	CLR	10.00		57	13.9	48	9.0	39	3.9	51	17	250	21	29.97			29.91	AA		29.91
01	0253	12	CLR	10.00		55	12.8	47	8.5	39	3.9	55	11	280		29.97			29.91	AA		29.91
01	0353	12	CLR	10.00		56	13.3	48	8.8	39	3.9	53	11	270		29.96			29.90	AA		29.90
01	0453	12	CLR	10.00		53	11.7	47	8.2	40	4.4	62	10	250		29.96			29.89	AA		29.90
01	0553	12	CLR	10.00		56	13.3	48	9.0	40	4.4	55	10	240		29.96			29.90	AA		29.90
01	0653	12	CLR	10.00		60	15.6	51	10.7	43	6.1	54	10	240		29.98			29.92	AA		29.92
01	0753	12	CLR	10.00		64	17.8	54	12.2	45	7.2	50	16	260		29.98			29.92	AA		29.92
01	0853	12	FEW090	10.00		65	18.3	54	12.4	45	7.2	49	25	240	30	30.00			29.94	AA		29.94
01	0953	12	CLR	10.00		68	20.0	56	13.1	45	7.2	44	16	260	28	30.00			29.94	AA		29.94
01	1053	12	BKN055 BKN085	10.00		68	20.0	55	12.9	44	6.7	42	9	270	18	29.99			29.93	AA		29.93
01	1153	12	BKN060 BKN075	10.00		70	21.1	56	13.4	44	6.7	39	15	250	20	29.97			29.91	AA		29.91
01	1253	12	CLR	10.00		72	22.2	56	13.2	41	5.0	33	23	250	33	29.95			29.89	AA		29.89
01	1353	12	CLR	10.00		72	22.2	55	12.5	38	3.3	29	25	250	34	29.94			29.88	AA		29.88
01	1453	12	CLR	10.00		70	21.1	53	11.7	36	2.2	29	22	260	33	29.92			29.86	AA		29.86
01	1553	12	CLR	10.00		69	20.6	52	11.2	35	1.7	29	22	260	29	29.92			29.86	AA		29.86
01	1653	12	CLR	10.00		67	19.4	51	10.5	34	1.1	30	17	250	26	29.92			29.86	AA		29.86
01	1753	12	CLR	10.00		63	17.2	49	9.2	32	0.0	31	20	250		29.92			29.86	AA		29.86
01	1853	12	CLR	10.00		60	15.6	48	9.0	35	1.7	39	21	250	29	29.92			29.86	AA		29.86
01	1953	12	CLR	10.00		58	14.4	47	8.4	35	1.7	42	18	250	26	29.95			29.89	AA		29.89
01	2053	12	CLR	10.00		57	13.9	47	8.2	35	1.7	44	17	270		29.97			29.91	AA		29.91
01	2153	12	CLR	10.00		56	13.3	46	7.5	33	0.6	42	20	260	28	29.97			29.91	AA		29.91
01	2253	12	CLR	10.00		55	12.8	46	7.6	35	1.7	47	11	260		29.98			29.91	AA		29.92
01	2353	12	CLR	10.00		55	12.8	47	8.3	38	3.3	53	17	260	24	29.97			29.91	AA		29.91

Dynamically generated Wed Dec 09 19:51:49 EST 2015 via http://www.ncdc.noaa.gov/qclcd/QCLCD

FIGURE B-14
EL CENTRO NAF QCLCD DATA MARCH 30, 2014 & APRIL 1, 2014

12/9/2015 QUALITY CONTROLLED Local Climatological Data: NAF

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

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

QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA (may be updated) HOURLY OBSERVATIONS TABLE NAF (23199) EL CENTRO, CA (03/2014)

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
30	0056	5	CLR	10.00		74	23.3	54	12.4	35	1.7	24	25	270		29.89			29.89	AA		29.85
30	0156	5	CLR	10.00		73	22.8	54	12.2	35	1.7	25	20	240		29.87			29.87	AA		29.83
30	0256	5	CLR	10.00		73	22.8	54	12.4	36	2.2	26	25	240		29.87			29.87	AA		29.83
30	0356	5	CLR	8.00		71	21.7	55	12.5	39	3.9	31	32	230	40	29.86			29.86	AA		29.82
30	0456	5	CLR	10.00		66	18.9	54	12.0	42	5.6	42	26	240	38	29.91			29.92	AA		29.87
30	0556	5	CLR	10.00		65	18.3	53	11.7	42	5.6	43	10	260		29.95			29.95	AA		29.91
30	0656	5	CLR	10.00		66	18.9	54	12.2	43	6.1	43	15	250	24	29.94			29.94	AA		29.90
30	0756	5	CLR	7.00		68	20.0	54	12.0	40	4.4	36	6	310		29.96			29.96	AA		29.92
30	0814	5	BKN019	3.00	HZ	70	21.1	56	13.4	44	6.7	39	15	290		29.96			M	SP		29.92
30	0826	5	OVC015	2.00	HZ	71	21.7	57	13.6	44	6.7	38	18	280		29.95			M	SP		29.91
30	0833	5	OVC015	1.75	HZ	72	22.2	57	13.8	44	6.7	37	15	300	26	29.95			M	SP		29.91
30	0848	5	OVC014	2.00	HZ	73	22.8	57	13.8	43	6.1	34	14	250	26	29.95			M	SP		29.91
30	0854	5	BKN015	4.00	HZ	73	23.0	58	14.3	45	7.0	37	13	200		29.95			M	SP		29.91
30	0856	5	BKN015	5.00	HZ	73	22.8	57	13.8	43	6.1	34	11	200		29.95			29.96	AA		29.91
30	0920	5	BKN034 BKN043	10.00		73	22.8	57	13.6	42	5.6	33	10	270		29.95			M	SP		29.91
30	0956	5	CLR	10.00		78	25.6	55	12.6	31	-0.6	18	16	260		29.93			29.94	AA		29.89
30	1056	5	CLR	10.00		81	27.2	52	11.2	14	-10.0s	8	17	300		29.92			29.93	AA		29.88
30	1156	5	SCT032	9.00		81	27.2	53	11.5	17	-8.3	9	21	300		29.92			29.93	AA		29.88
30	1256	5	CLR	10.00		82	27.8	54	12.4	23	-5.0	11	17	310	25	29.92			29.92	AA		29.88
30	1356	5	CLR	10.00		85	29.4	55	13.0	22	-5.6	10	17	300		29.90			29.90	AA		29.86
30	1456	5	CLR	10.00		83	28.3	55	12.9	25	-3.9	12	13	300		29.88			29.88	AA		29.84
30	1556	5	CLR	10.00		84	28.9	55	13.0	24	-4.4	11	10	320		29.86			29.87	AA		29.82
30	1656	5	CLR	10.00		83	28.3	55	12.9	25	-3.9	12	9	270		29.87			29.87	AA		29.83
30	1756	5	CLR	10.00		77	25.0	55	12.9	34	1.1	21	22	240	28	29.88			29.88	AA		29.84
30	1856	5	CLR	10.00		73	22.8	55	12.6	37	2.8	27	13	250		29.90			29.90	AA		29.86
30	1956	5	CLR	10.00		69	20.6	53	11.4	36	2.2	30	17	250		29.94			29.94	AA		29.90
30	2056	5	CLR	10.00		67	19.4	50	10.2	32	0.0	27	13	260		29.95			29.95	AA		29.91
30	2156	5	CLR	10.00		64	17.8	50	9.8	34	1.1	33	11	260		29.94			29.94	AA		29.90
30	2256	5	CLR	10.00		64	17.8	50	10.0	35	1.7	34	5	200		29.95			29.96	AA		29.91
30	2356	5	CLR	10.00		64	17.8	49	9.2	31	-0.6	29	15	250		29.96			29.96	AA		29.92

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12/9/2015 QUALITY CONTROLLED Local Climatological Data: NAF

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

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

QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA (may be updated) HOURLY OBSERVATIONS TABLE NAF (23199) EL CENTRO, CA (04/2014)

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	0006	5	FEW017	7.00		60	15.6	49	9.4	37	2.8	43	31	250	46	29.94			M	SP		29.90
01	0018	5	FEW005	10.00		59	15.0	49	9.3	38	3.3	46	31	250	41	29.95			M	SP		29.91
01	0056	5	CLR	10.00		58	14.4	49	9.3	39	3.9	49	26	240	34	29.96			29.97	AA		29.92
01	0156	5	CLR	10.00		58	14.4	48	9.1	38	3.3	48	24	230	38	29.96			29.96	AA		29.92
01	0256	5	CLR	10.00		56	13.3	48	8.8	39	3.9	53	15	250		29.95			29.96	AA		29.91
01	0356	5	CLR	10.00		56	13.3	48	8.8	39	3.9	53	10	240		29.94			29.95	AA		29.90
01	0456	5	FEW070	10.00		56	13.3	48	9.0	40	4.4	55	13	220		29.94			29.94	AA		29.90
01	0556	5	FEW040	10.00		57	13.9	49	9.2	40	4.4	53	14	220		29.95			29.95	AA		29.91
01	0656	5	FEW040	10.00		61	16.1	52	11.0	43	6.1	52	16	240	23	29.96			29.97	AA		29.92
01	0756	5	FEW025 SCT040	10.00		65	18.3	54	12.0	43	6.1	45	20	250		29.97			29.97	AA		29.93
01	0856	5	FEW050 BKN080	10.00		68	20.0	55	12.9	44	6.7	42	25	230	32	29.98			29.99	AA		29.94
01	0956	5	FEW050 BKN085 BKN250	10.00		70	21.1	56	13.4	44	6.7	39	22	240	28	29.98			29.99	AA		29.94
01	1056	5	FEW050 BKN080 BKN250	10.00		70	21.1	56	13.4	44	6.7	39	9	260		29.97			29.98	AA		29.93
01	1156	5	FEW050 BKN080 BKN250	10.00		70	21.1	55	12.9	42	5.6	36	16	230		29.96			29.97	AA		29.92
01	1256	5	FEW050 SCT080	10.00		71	21.7	54	12.3	38	3.3	30	28	220		29.94			29.95	AA		29.90
01	1356	5	FEW050 SCT080	10.00		73	22.8	54	12.4	36	2.2	26	28	240	37	29.94			29.94	AA		29.90
01	1456	5	FEW050 FEW080	10.00		71	21.7	53	11.7	35	1.7	27	29	230	34	29.93			29.93	AA		29.89
01	1556	5	FEW050 FEW080	10.00		70	21.1	52	11.3	34	1.1	27	24	230	32	29.91			29.91	AA		29.87
01	1656	5	FEW060 FEW090	10.00		67	19.4	51	10.4	33	0.6	28	24	240	33	29.91			29.91	AA		29.87
01	1756	5	FEW070	10.00		64	17.8	48	9.1	30	-1.1	28	22	240		29.91			29.92	AA		29.87
01	1856	5	FEW070	10.00		61	16.1	48	8.8	33	0.6	35	24	250		29.93			29.93	AA		29.89
01	1956	5	CLR	10.00		59	15.0	47	8.3	33	0.6	38	23	240		29.95			29.96	AA		29.91
01	2056	5	CLR	10.00		58	14.4	46	7.8	32	0.0	37	23	240	29	29.96			29.97	AA		29.92
01	2156	5	CLR	10.00		57	13.9	46	7.8	33	0.6	40	21	250		29.97			29.98	AA		29.93
01	2256	5	CLR	10.00		56	13.3	46	7.7	34	1.1	44	18	250		29.96			29.97	AA		29.92
01	2356	5	CLR	10.00		54	12.2	46	7.8	37	2.8	53	15	270		29.97			29.97	AA		29.93

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FIGURE B-15
OCOTILLO WELLS TABULAR DATA

STATION: AS938
SOURCE: UNIVERSITY OF UTAH MESOWEST
STATION NAME: KD6RSQ-5 Ocotillo Wells
LATITUDE: 33.15044
LONGITUDE: -116.18041
ELEVATION [ft]: 419
STATE: CA

Station_ID	Date_Time	wind_speed_set_1 Miles/hour	wind_direction_set_1 Degrees	wind_gust_set_1 Miles/hour
AS938	03/29/2014 00:57 PDT	7	304	10
AS938	03/29/2014 01:52 PDT	5.99	315	8.01
AS938	03/29/2014 02:57 PDT	5.99	342	8.99
AS938	03/29/2014 03:53 PDT	3	328	4.99
AS938	03/29/2014 04:56 PDT	2.01	305	4.99
AS938	03/29/2014 05:59 PDT	5.99	304	7
AS938	03/29/2014 06:55 PDT	4	329	5.99
AS938	03/29/2014 07:58 PDT	5.99	330	8.99
AS938	03/29/2014 08:54 PDT	4	340	5.99
AS938	03/29/2014 10:46 PDT	4.99	127	8.99
AS938	03/29/2014 11:56 PDT	8.01	141	16.98
AS938	03/29/2014 12:52 PDT	5.99	145	11.99
AS938	03/29/2014 13:57 PDT	7	167	14
AS938	03/29/2014 14:57 PDT	8.01	136	14
AS938	03/29/2014 15:54 PDT	4.99	104	8.99
AS938	03/29/2014 16:57 PDT	4	121	8.01
AS938	03/29/2014 17:53 PDT	7	84	10
AS938	03/29/2014 18:57 PDT	0		0
AS938	03/29/2014 19:59 PDT	2.01	217	5.99
AS938	03/29/2014 20:57 PDT	8.01	295	14
AS938	03/29/2014 21:58 PDT	8.01	300	11.99
AS938	03/29/2014 22:54 PDT	8.01	300	11.99
AS938	03/29/2014 23:57 PDT	7	332	15.99
AS938	03/30/2014 00:53 PDT	10	280	21.99
AS938	03/30/2014 01:37 PDT	10	280	21.99
AS938	03/30/2014 02:59 PDT	14	293	20.98
AS938	03/30/2014 03:57 PDT	15.99	280	25.99
AS938	03/30/2014 04:58 PDT	21.99	288	35.97
AS938	03/30/2014 05:54 PDT	23.98	291	39.97
AS938	03/30/2014 06:57 PDT	20	301	33.98
AS938	03/30/2014 07:57 PDT	23.98	284	37.98
AS938	03/30/2014 08:57 PDT	26.98	246	55.97
AS938	03/30/2014 09:57 PDT	20.98	283	38.97
AS938	03/30/2014 10:57 PDT	18.99	276	33.98
AS938	03/30/2014 11:58 PDT	14	281	27.98
AS938	03/30/2014 12:54 PDT	13	277	29.97
AS938	03/30/2014 13:57 PDT	10.98	271	21.99
AS938	03/30/2014 14:53 PDT	8.99	301	20
AS938	03/30/2014 15:57 PDT	8.01	283	21.99
AS938	03/30/2014 16:59 PDT	13	281	26.98
AS938	03/30/2014 17:57 PDT	14	281	25.99
AS938	03/30/2014 18:58 PDT	8.99	298	21.99
AS938	03/30/2014 19:54 PDT	14	283	23.98
AS938	03/30/2014 20:57 PDT	14	290	28.97
AS938	03/30/2014 21:57 PDT	14.99	284	26.98
AS938	03/30/2014 22:56 PDT	17.98	294	31.99
AS938	03/30/2014 23:57 PDT	16.98	293	28.97
AS938	03/31/2014 00:57 PDT	17.98	298	27.98
AS938	03/31/2014 01:58 PDT	17.98	271	26.98
AS938	03/31/2014 02:52 PDT	20.98	290	29.97
AS938	03/31/2014 03:52 PDT	15.99	277	26.98
AS938	03/31/2014 04:53 PDT	11.99	277	20
AS938	03/31/2014 05:57 PDT	10.98	291	18.99
AS938	03/31/2014 06:59 PDT	17.98	274	27.98

AS938	03/31/2014 07:57 PDT	16.98	283	25.99
AS938	03/31/2014 08:51 PDT	14	302	22.97
AS938	03/31/2014 09:57 PDT	11.99	277	21.99
AS938	03/31/2014 10:50 PDT	5.99	287	14
AS938	03/31/2014 11:53 PDT	7	287	18.99
AS938	03/31/2014 12:57 PDT	11.99	283	24.99
AS938	03/31/2014 13:59 PDT	8.99	295	18.99
AS938	03/31/2014 14:57 PDT	8.99	276	22.97
AS938	03/31/2014 15:58 PDT	11.99	283	22.97
AS938	03/31/2014 16:54 PDT	11.99	283	26.98
AS938	03/31/2014 17:57 PDT	14.99	281	29.97
AS938	03/31/2014 18:53 PDT	14.99	263	27.98
AS938	03/31/2014 19:57 PDT	15.99	283	29.97
AS938	03/31/2014 20:57 PDT	11.99	285	23.98
AS938	03/31/2014 21:57 PDT	8.99	287	21.99
AS938	03/31/2014 22:52 PDT	8.99	284	20
AS938	03/31/2014 23:42 PDT	8.99	302	16.98
AS938	04/01/2014 00:52 PDT	8.99	290	14.99
AS938	04/01/2014 01:42 PDT	15.99	284	27.98
AS938	04/01/2014 02:57 PDT	17.98	298	28.97
AS938	04/01/2014 03:57 PDT	15.99	284	26.98
AS938	04/01/2014 04:48 PDT	2.01	307	5.99
AS938	04/01/2014 05:44 PDT	10.98	288	20.98
AS938	04/01/2014 06:54 PDT	8.99	297	14
AS938	04/01/2014 07:52 PDT	5.99	285	13
AS938	04/01/2014 08:53 PDT	10.98	278	21.99
AS938	04/01/2014 09:57 PDT	8.01	302	11.99
AS938	04/01/2014 10:57 PDT	11.99	277	25.99
AS938	04/01/2014 11:57 PDT	14	290	28.97
AS938	04/01/2014 12:58 PDT	13	277	28.97
AS938	04/01/2014 13:54 PDT	17.98	281	34.96
AS938	04/01/2014 14:57 PDT	14	287	27.98
AS938	04/01/2014 15:52 PDT	10.98	297	26.98
AS938	04/01/2014 16:57 PDT	14.99	283	24.99
AS938	04/01/2014 17:57 PDT	13	274	26.98
AS938	04/01/2014 18:57 PDT	15.99	278	32.97
AS938	04/01/2014 19:58 PDT	11.99	288	29.97
AS938	04/01/2014 20:54 PDT	7	302	14
AS938	04/01/2014 21:57 PDT	11.99	288	20.98
AS938	04/01/2014 22:57 PDT	11.99	294	18.99
AS938	04/01/2014 23:49 PDT	10.98	308	17.98
AS938	04/02/2014 00:59 PDT	14.99	305	23.98
AS938	04/02/2014 01:57 PDT	13	304	20.98
AS938	04/02/2014 02:58 PDT	8.99	285	14
AS938	04/02/2014 03:54 PDT	5.99	301	10
AS938	04/02/2014 04:57 PDT	5.99	329	8.99
AS938	04/02/2014 05:53 PDT	0		0
AS938	04/02/2014 06:57 PDT	0		0
AS938	04/02/2014 07:59 PDT	4.99	322	13
AS938	04/02/2014 08:57 PDT	8.99	301	14.99
AS938	04/02/2014 09:57 PDT	10.98	316	15.99
AS938	04/02/2014 10:57 PDT	14	274	24.99
AS938	04/02/2014 11:52 PDT	16.98	297	27.98
AS938	04/02/2014 12:52 PDT	13	283	22.97
AS938	04/02/2014 13:57 PDT	15.99	295	33.98
AS938	04/02/2014 14:59 PDT	17.98	291	35.97
AS938	04/02/2014 15:57 PDT	17.98	301	27.98
AS938	04/02/2014 16:58 PDT	18.99	266	29.97
AS938	04/02/2014 17:54 PDT	15.99	297	27.98
AS938	04/02/2014 18:52 PDT	16.98	287	27.98
AS938	04/02/2014 19:57 PDT	15.99	249	26.98
AS938	04/02/2014 20:57 PDT	11.99	287	23.98
AS938	04/02/2014 21:57 PDT	13	284	23.98
AS938	04/02/2014 22:57 PDT	13	277	22.97
AS938	04/02/2014 23:58 PDT	11.99	285	17.98

FIGURE B-16
FISH CREEK MOUNTAINS TABULAR DATA

STATION: FHCC1
SOURCE: UNIVERSITY OF UTAH'S MESOWEST
STATION NAME: FISH CREEK MOUNTAINS
LATITUDE: 32.990306
LONGITUDE: -116.066972
ELEVATION [ft]: 781
STATE: CA

Station_ID	Date_Time	wind_speed_set_1 Miles/hour	wind_direction_set_1 Degrees	wind_gust_set_1 Miles/hour
FHCC1	03/29/2014 00:26 PDT	0		4
FHCC1	03/29/2014 01:26 PDT	0		3
FHCC1	03/29/2014 02:26 PDT	1.01	149	2.01
FHCC1	03/29/2014 03:26 PDT	1.01	290	4
FHCC1	03/29/2014 04:26 PDT	0		3
FHCC1	03/29/2014 05:26 PDT	1.01	190	4
FHCC1	03/29/2014 10:26 PDT	2.01	287	5.99
FHCC1	03/29/2014 11:26 PDT	3	246	8.01
FHCC1	03/29/2014 12:26 PDT	4	134	12.01
FHCC1	03/29/2014 13:26 PDT	7	90	13
FHCC1	03/29/2014 14:26 PDT	4	143	14
FHCC1	03/29/2014 15:26 PDT	4	161	13
FHCC1	03/29/2014 16:26 PDT	4.99	186	11.01
FHCC1	03/29/2014 17:26 PDT	4.99	37	13
FHCC1	03/29/2014 18:26 PDT	2.01	225	8.99
FHCC1	03/29/2014 19:26 PDT	4	332	10
FHCC1	03/29/2014 20:26 PDT	3	121	7
FHCC1	03/29/2014 21:26 PDT	0		4
FHCC1	03/29/2014 22:26 PDT	8.01	219	12.01
FHCC1	03/29/2014 23:26 PDT	8.99	209	13
FHCC1	03/30/2014 00:26 PDT	10	213	14.99
FHCC1	03/30/2014 01:26 PDT	11.01	234	23
FHCC1	03/30/2014 02:26 PDT	13	213	18.01
FHCC1	03/30/2014 03:26 PDT	5.99	200	18.01
FHCC1	03/30/2014 04:26 PDT	5.99	216	14.99
FHCC1	03/30/2014 05:26 PDT	15.99	260	27
FHCC1	03/30/2014 06:26 PDT	8.01	302	28.01
FHCC1	03/30/2014 07:26 PDT	8.01	341	22.01
FHCC1	03/30/2014 08:26 PDT	12.01	260	25.99
FHCC1	03/30/2014 09:26 PDT	10	133	27
FHCC1	03/30/2014 10:26 PDT	7	312	35.99
FHCC1	03/30/2014 11:26 PDT	21	304	34
FHCC1	03/30/2014 12:26 PDT	14.99	307	35.99
FHCC1	03/30/2014 13:26 PDT	17	299	31
FHCC1	03/30/2014 14:26 PDT	7	278	24
FHCC1	03/30/2014 15:26 PDT	4.99	260	18.01
FHCC1	03/30/2014 16:10 PDT			
FHCC1	03/30/2014 16:26 PDT	8.99	264	18.01
FHCC1	03/30/2014 17:26 PDT	5.99	298	24
FHCC1	03/30/2014 18:26 PDT	13	258	22.01
FHCC1	03/30/2014 19:26 PDT	14	239	21
FHCC1	03/30/2014 20:26 PDT	13	201	18.99
FHCC1	03/30/2014 21:26 PDT	12.01	202	20
FHCC1	03/30/2014 22:26 PDT	17	222	25.99
FHCC1	03/30/2014 23:26 PDT	13	214	25.99
FHCC1	03/31/2014 00:26 PDT	15.99	227	22.01
FHCC1	03/31/2014 01:26 PDT	17	223	23
FHCC1	03/31/2014 02:26 PDT	14.99	228	28.01
FHCC1	03/31/2014 03:26 PDT	7	198	21
FHCC1	03/31/2014 04:26 PDT	4	207	14.99
FHCC1	03/31/2014 05:26 PDT	4.99	208	8.99
FHCC1	03/31/2014 06:26 PDT	2.01	214	4.99
FHCC1	03/31/2014 07:26 PDT	8.01	189	13

FHCC1	03/31/2014 08:26 PDT	7	183	12.01
FHCC1	03/31/2014 09:26 PDT	7	185	11.01
FHCC1	03/31/2014 10:26 PDT	5.99	184	11.01
FHCC1	03/31/2014 11:26 PDT	5.99	342	14.99
FHCC1	03/31/2014 12:26 PDT	7	342	17
FHCC1	03/31/2014 13:26 PDT	11.01	36	21
FHCC1	03/31/2014 14:26 PDT	14	301	30
FHCC1	03/31/2014 15:26 PDT	17	291	32.99
FHCC1	03/31/2014 16:26 PDT	12.01	290	28.99
FHCC1	03/31/2014 17:26 PDT	11.01	275	25.99
FHCC1	03/31/2014 18:26 PDT	18.01	250	27
FHCC1	03/31/2014 19:26 PDT	10	236	32.01
FHCC1	03/31/2014 20:26 PDT	12.01	229	27
FHCC1	03/31/2014 21:26 PDT	12.01	221	20
FHCC1	03/31/2014 22:26 PDT	10	245	23
FHCC1	03/31/2014 23:26 PDT	11.01	239	23
FHCC1	04/01/2014 00:26 PDT	8.99	351	14
FHCC1	04/01/2014 01:26 PDT	1.01	193	18.01
FHCC1	04/01/2014 02:26 PDT	13	327	23
FHCC1	04/01/2014 03:26 PDT	11.01	4	23
FHCC1	04/01/2014 04:26 PDT	3	132	18.99
FHCC1	04/01/2014 05:26 PDT	1.01	191	15.99
FHCC1	04/01/2014 06:26 PDT	4	126	10
FHCC1	04/01/2014 07:26 PDT	1.01	160	10
FHCC1	04/01/2014 08:26 PDT	3	340	7
FHCC1	04/01/2014 09:26 PDT	3	98	8.01
FHCC1	04/01/2014 10:26 PDT	4	25	14
FHCC1	04/01/2014 11:26 PDT	2.01	234	8.01
FHCC1	04/01/2014 12:26 PDT	4.99	84	18.99
FHCC1	04/01/2014 13:26 PDT	13	303	30
FHCC1	04/01/2014 14:26 PDT	14.99	310	32.99
FHCC1	04/01/2014 15:26 PDT	14.99	301	32.99
FHCC1	04/01/2014 16:26 PDT	5.99	261	27
FHCC1	04/01/2014 17:26 PDT	14.99	251	28.01
FHCC1	04/01/2014 18:26 PDT	11.01	311	28.01
FHCC1	04/01/2014 19:26 PDT	13	269	27
FHCC1	04/01/2014 20:26 PDT	10	268	20
FHCC1	04/01/2014 21:26 PDT	12.01	240	27
FHCC1	04/01/2014 22:26 PDT	8.99	256	24
FHCC1	04/01/2014 23:26 PDT	8.99	297	15.99
FHCC1	04/02/2014 00:26 PDT	10	306	14.99
FHCC1	04/02/2014 01:26 PDT	14	306	24
FHCC1	04/02/2014 02:26 PDT	8.99	308	20
FHCC1	04/02/2014 03:26 PDT	7	322	17
FHCC1	04/02/2014 04:26 PDT	4	316	14
FHCC1	04/02/2014 05:26 PDT	2.01	123	4.99
FHCC1	04/02/2014 06:26 PDT	0		4.99
FHCC1	04/02/2014 07:26 PDT	4.99	209	8.01
FHCC1	04/02/2014 08:26 PDT	7	236	17
FHCC1	04/02/2014 09:26 PDT	4.99	260	14
FHCC1	04/02/2014 10:26 PDT	10	283	24.99
FHCC1	04/02/2014 11:26 PDT	14.99	258	32.99
FHCC1	04/02/2014 12:26 PDT	8.99	311	35.99
FHCC1	04/02/2014 13:26 PDT	13	250	31
FHCC1	04/02/2014 14:26 PDT	12.01	248	34
FHCC1	04/02/2014 15:26 PDT	13	274	31
FHCC1	04/02/2014 16:26 PDT	13	296	34.99
FHCC1	04/02/2014 17:26 PDT	13	282	32.01
FHCC1	04/02/2014 18:26 PDT	15.99	272	25.99
FHCC1	04/02/2014 19:26 PDT	13	289	30
FHCC1	04/02/2014 20:26 PDT	11.01	211	18.99
FHCC1	04/02/2014 21:26 PDT	11.01	234	23
FHCC1	04/02/2014 22:26 PDT	12.01	222	22.01
FHCC1	04/02/2014 23:26 PDT	12.01	226	21